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June 10, 2022

RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

VIA DIRECT UPLOAD

Brandon Dunn, Principal Planner
Department of Community Development, Zoning Section
Lee County
P.O. Box 398
Fort Myers, FL 33902-0398
BDunn@leegov.com

RE: Daniels South Comprehensive Plan Amendments
CPA2021-00017 & CPA2021-00018 – 1st Insufficiency Response

Dear Mr. Dunn,

The purpose of this letter is to provide a response to the Lee County Department of Community Development's review comments dated January 10, 2022, for the Comprehensive Plan Amendment applications referenced above. We appreciate the coordination and assistance from Staff over the past few months related to this application.

Since the time of the comment letter, we have revised the Text Amendment, held meetings with the Lee County Port Authority, and revised the Master Concept Plan to reduce the development footprint. As a result we have increased the amount of preservation and restoration to be provided; included Rare and Unique Uplands. On-site site visits have also occurred with the South Florida Water Management District (SFWMD) and a Jurisdictional Determination is included in this resubmittal.

We welcome additional calls and emails from County Staff that will continue to help us address all comments in the most efficient manner possible.

1. Please provide additional details in the Project Description for the proposed map amendments to reference all maps proposed to be amended. These maps should include the Private Recreation Facilities Overlay (Map 1-F), Lee County Utilities Future Service Areas (Maps 4-A and 4-B), and the Southeast Lee County Residential Overlay (Map 2-D). (CPA2021-00018).

RESPONSE: Please see the attached updated narratives supporting the Map and Text Amendment requests in Attachment 2.

2. No allocation amendments were included to Table 1(b). In the application it is acknowledged the table will be amended to include Intensive Development in the Gateway/Airport Planning District (Planning District 10). The current allocations assume 245 units on 25 acres in the Central Urban area within the Gateway/Airport Planning District. Much of this area was assumed to be developed commercially. There is no indication that an amendment to the table for Southeast Lee County Planning District (Planning District 18) is anticipated. Table 1(b) allocation for Density Reduction/Groundwater Resource in the Southeast Lee County Planning District has approximately 2,500 available acres. Please submit proposed amendments to Table 1(b). (CPA2021-00017).

RESPONSE: Please see the attached revisions to Table 1(b), included in Attachment 2, accommodating 14 acres of multi-family residential within the Gateway Community to support the proposed residential within the Intensive Development Future Land Use.

3. The application indicates that the Lee County Utilities Future Service Area Maps (Map 4-A, Water; and Map 4-B, Sewer) will be updated, however these maps were not included in the application materials. Please submit existing and proposed Maps for the Future Water and Sewer Service Areas. (CPA2021-00018)

RESPONSE: Please see the attached revised Attachment 3 Map Series, including Existing and Proposed LCU Service Area Maps 4-A and 4-B.

4. Please clarify if the existing Mixed Use Community is within the boundary of the proposed "Mixed Use Community Enhancement Overlay." Please revise existing and proposed maps to show the location clearly. (CPA2021-00017 & CPA2021-0018)

RESPONSE: The proposed text amendment, included in Attachment 2, is to permit additional development to occur more than 400 feet from the Boundary of the Mixed Use Overlay. To permit such development, specific criteria are identified and density incentives are proposed. In essence, the Enhancement Overlay is an extension of the existing Mixed Use Community. The Enhancement Overlay cannot be added to Map 2-D without 2 main items:

1. **An existing mixed use community**
2. **An Urban Future Land Use Category**

The concurrent planned development amendment cannot be approved without demonstrating the proposed criteria have been met.

A revised Legal Description and Sketch for the Enhancement Overlay area is attached demonstrating the original Mixed Use Community is not included. The Map Series has also been updated in an effort to appropriately demonstrate the Enhancement Overlay area.

5. Please provide an explanation of how the proposed incentive density for the Mixed Use Community Enhancement Overlay will be calculated and provide a rational nexus for the proposed incentive density. (CPA2021-00017)

RESPONSE: Please see Attachment 2 which includes the attached revised Project Narrative; which includes density calculated based on the proposed future land use map amendment and Indigenous preservation and restoration.

6. Please provide documentation for a Public Informational meeting within the Southeast Lee County Community Plan Area, meeting the requirements of Lee Plan Objective 17.3, to address the proposed text amendments. (CPA2021-00017)

RESPONSE: Please see Attachment 9 with the Meeting Summary for Southeast Lee Community Planning Area.

7. Please provide documentation for a Public Information meeting within the Lehigh Acres and Southeast Lee County Community Plan Areas, meeting the requirements of Lee Plan Objective 17.3, to address the proposed map amendments for each respective community plan area. (CPA2021-00018)

RESPONSE: Please see Attachement 9 with the Meeting Summaries for Lehigh Acres and the Southeast Lee Community Planning Areas.

8. Exhibits T8/M13 - Please provide additional narrative and maps regarding the site's archaeological site and resource group, as mentioned in the letter from the Florida Master Site File. (CPA2021-00017 and CPA2021-00018)

RESPONSE: Please see Attachment 8 with the updated letter, map, and resource list. Please note that the resource noted is a former training loop associated with the Buckingham Airport when it was in service with the US Military. This resource has since been divided by the extension of Daniels Parkway. No other resources are listed to occur onsite.

9. Lee Plan Analysis:
   a) Please update all project narratives so that they are based on the current (November 2021) Lee Plan Codification. Please note map and table numbers have been updated and should be reflected in both the project narratives and the project descriptions. (CPA2021-00017)

      RESPONSE: Please see Attachment 2.

   b) Please address Policy 5.1.10 in the Lee Plan narrative, specifically Policy 5.1.10#2. (CPA2021-0017)

RESPONSE: Please see the attached revised Text Amendment included in Attachment 2.

c) Please explain why this property is appropriate for residential development, taking into account the physical constraints and hazards identified in Policy 5.1.2. (CPA2021-00017)

RESPONSE: The Lee Plan Consistency narrative previously submitted provided an analysis of Policy 5.1.2. The narrative has been reformatted to expressly call out this policy and the analysis of the proposed development and is included in Attachment 2.

d) Please provide an analysis of Lee Plan Policies 25.10.1, 57.1.5, 123.1.5, 123.2.10, 123.3.3, 123.12.2, and 126.1.1. (CPA2021-00017 and CPA2021-00018)

RESPONSE: Please see the attached revised Lee Plan Consistency Analysis in Attachment 2.

e) Please provide an analysis of Lee Plan Policy 33.2.1 and 126.1.4 with a specific discussion regarding the Sandstone Aquifer. Many of the surrounding homes rely on the Sandstone Aquifer for drinking water; how will the use of the Sandstone Aquifer to supplement irrigation lakes proposed within the project affect access to drinking water by surrounding residences? To address this, the applicant may want to consider a groundwater level-monitoring plan? (CPA2021-00017 and CPA2021-00018)

RESPONSE: The project's use of groundwater (and surface water) requires issuance of a Water Use Permit from the South Florida Water Management District (SFWMD) that meets the criteria of Chapter 373.223(1) Florida Statutes. Chapter 373.223(1) regards the Conditions for Issuance and states that Water Use Permit Applicants must establish that any requested use of water is reasonable and beneficial, will not interfere with any existing legal use of water, and is consistent with the public interest. Therefore, adverse interference to any existing users of the Sandstone Aquifer will not be authorized. The development's lack of interference will be achieved by positioning the proposed Sandstone Aquifer irrigation wells to prevent adverse impacts to existing residential wells to the north. As shown in the May 2022 Enhanced Lake Management Plan (ELMP) provided in support of the development, the nearest irrigation well is approximately 3,000 feet (0.6 miles) away from Lehigh Acres.

It is also important to note that the development's irrigation system is proposed to conjunctively use surface and groundwater sources thereby reducing overall

reliance on groundwater supplies, consistent with Policy 33.2.1. Therefore, a Sandstone Aquifer monitoring well is not considered necessary.

As indicated in the supporting documents included with this response, historic surface water flows will be restored via a flow-path connection between the Six Mile Cypress and Estero Bay Watersheds. The proposed man-made flow-path connection will effectively restore and improve surface water flows in the DR/GR. As indicated in the attached Stormwater and Integrated Modeling reports, groundwater levels are anticipated to increase through enhanced recharge resulting from the project's stormwater detention lakes. Increased recharge will result in increased groundwater levels in the Water Table Aquifer, further improving water resource conditions in the DR/GR.

f) Please provide an analysis of Lee Plan Goal 125. (CPA2021-00017 and CPA2021-00018).

RESPONSE: Please see the attached revised Lee Plan Consistency Analysis in Attachment 2.

10. Public Facilities Impact Analysis

a) The transportation circulation analysis, on page 2, states that an additional 328 dwelling units will be created using the proposed "Mixed Use Enhancement Communities Overlay." Please explain how this number was determined. Based on the information provided staff could not recreate this calculation. (CPA2021-00017).

RESPONSE: Please see the attached memo from TR Transportation in Attachment 7.

b) Based on the transportation circulation analysis, please confirm that the project will consist of 417 single-family units and 1,148 multi-family units. (CPA2021-00017 and CPA2021-00018)

RESPONSE: Please see the updated memo provided by TR Transportation in Attachment 7. The project is requesting a total of 1,600 dwelling units.

c) Please provide a letter of service availability from Lee County EMS. (CPA2021-0017 and CPA2021-00018)

RESPONSE: Please see the attached Letter of Availability from Lee County EMS indicating service availability is adequate in Attachment 6. Please note the concurrent Mixed Use Planned Development includes a parcel along Daniels Parkway for Emergency Services.

11. Legal Description

a) The legal description sketches for the "Mixed-Use Enhancement Communities", Intensive Development, and project perimeter do not contain the opposing corner state plane coordinate as required by the application.

RESPONSE: Please see the attached updated Legal Descriptions in Attachment 10.

b) Using the provided state plane coordinates for the POBs creates a 2' gap between the two designations.

RESPONSE: **Please see the attached updated Legal Descriptions in Attachment 10.**

c) The description for the "Mixed-Use Enhancement Communities" has a conflicting call between the written legal and the accompanying sketch line L47. (CPA2021-0018).

RESPONSE: Please see the attached updated Legal Descriptions in Attachment 10.

d) No legal descriptions (based on jurisdictional determinations) for the wetlands have been provided. The wetland designations will not be changed. (CPA2021-00018)

RESPONSE: Understood. Please see the attached Jurisdictional Determination from the South Florida Water Management District in Attachment 4.

12. Environmental Impact Analysis

a) Please provide a topographic map depicting the property boundaries and 100-year flood prone areas indicated (as identified by FEMA). (CPA2021-00018)

RESPONSE: Please see the attached Topographic Flood Map included in Attachment 3.

b) Provide a map delineating the property boundaries on the most recent Flood Insurance Rate Map. (CPA2021-00018).

RESPONSE: Please see the attached Flood Insurance Rate Map included in Attachment 3.

c) Please provide an integrated surface and groundwater model per Policy 33.1.7. (CPA2021-00017 and CPA2021-00018)

RESPONSE: Please see Attachment 5 with the Drainage Report prepared by Morris-Depew Associates which includes an Integrated Model Report from Progressive Water Resources as Appendix L.

d) Please address the downstream or upstream flooding impacts from the improvements to the restored historic flowways. Are additional improvements needed off property to avoid impacting surrounding or adjacent lands? (CPA2021-00017 and CPA2021-00018)

RESPONSE: As indicated in the Daniels South Drainage Report, the system has been designed to reduce peak discharge rates from the predevelopment conditions which will prevent flooding downstream of the project. Additionally, the project is located at the high end of the two watersheds and does not accept upstream stormwater runoff in the predevelopment or post development conditions, as such there will not be upstream flooding impacts. Additional offsite improvements will not be required.

e) The majority of the property is located within the 10,000' hazardous wildlife buffer. While the proposed project is not creating new wetlands, the project does propose to enhance and improve onsite wetland habitat. The enhancement of onsite wetlands seems contrary to the operation of the adjacent Southwest Florida Regional Airport, as it will create wildlife foraging and nesting areas. Please expand on the analysis of Objective 47.2 discussing how restored/enhanced wetlands will be designed to minimize attractiveness to wildlife while also providing environmental enhancements as discussed in the consistency analysis. (CPA2021-00017 and CPA2021-00018)

RESPONSE: Noted. As required by the Lee Plan, the Project must preserve, enhance, and restore indigenous habitats. However, to avoid inconsistency with the Lee County Port Authority's (LCPA) wildlife hazard deterrence efforts, the Project will not create wetlands within the 10,000-foot Hazardous Wildlife Buffer (Buffer). Existing wetland and upland habitats within the Buffer will be managed such that they are restored, where applicable, in a "like-for-like" manner to maintain existing habitat types. For example, a melaleuca (*Melaleuca quinquenervia*) forest will be replaced with native trees and an exotic-infested marsh will be replanted with herbaceous vegetation. In addition, plantings installed within the Buffer will adhere to the LCPA Compatible Native Plant List to reduce or eliminate plant material that would provide food, water, and shelter for large flocks of birds that could pose a high risk to aviation.

On a separate note, a formal wetland jurisdictional determination (JD) was issued for the Project by the South Florida Water Management District (SFWMD) on May 9, 2022. A copy of the SFWMD's formal wetland JD letter is attached. As a result of the wetland JD, the Florida Land Use Cover and Forms Classification Systems

(FLUCFCS) map was revised to reflect 532.51 acres of wetlands. Please refer to the Appendix B and C of the attached revised Environmental Assessment report.

13. Miscellaneous Comments

a) A planned development rezoning will be required, as proposed in text amendments.

RESPONSE: Noted.

b) The Lee Plan defines Traditional Neighborhood Design (TND) as: *"A form of development that creates mixed-use, mixed-income neighborhoods that are compact, diverse and walkable."* The development pattern seen throughout the application materials does not match the definition in the Lee Plan or commonly used definitions of Traditional Neighborhood Design.

RESPONSE: Please see the attached updated proposed Text Amendment deleting the reference to Traditional Neighborhood Design in Attachment 2.

c) Please see attached letter from Lee County Port Authority and address all comments.

RESPONSE: Please see the responses provided below.

Lee County Port Authority Comments

1. The subject property is located near a highly active arrival/departure corridor for Runway 06/24 and Southwest Florida International Airport (SWFIA) and will be subject to numerous daily overflights at low altitudes. In 2020, runway 6/24 had a total of 74,901 operations and as of October 2021 operations have surpassed 81,564.

RESPONSE: Per communications with LCPA Staff and guidance from the Federal Aviation Administration Advisory Circular No. 150/5200-33C regarding hazardous wildlife attractants on or near airports, the Indigenous Preservation, Restoration, and Management Plan provided as part of the Project's zoning application, has incorporated multiple minimization measures within the Buffer. These measures are described below.

Lakes developed for the Project's stormwater management system will incorporate a hardened shoreline (e.g., rip-rap) and/or steep slopes (i.e., 4:1) to minimize wading bird attractants. These lakes will also be maintained in a manner that keeps them free of both emergent and submergent vegetation such as pickerelweed (*Pontederia cordata*) and red ludwigia (*Ludwigia repens*), respectively. As required by the Lee Plan, the Project must preserve, enhance, and restore indigenous habitats. However, to avoid inconsistency with the LCPA's wildlife hazard deterrence efforts, the Project will not create wetlands within the Buffer. Existing wetland and upland habitats will

be managed such that they are restored, where applicable, in a "like-for-like" manner to maintain existing habitat types. For example, a melaleuca forest will be replaced with native trees and an exotic-infested marsh will be replanted with herbaceous vegetation. In addition, plantings installed within the Buffer will adhere to the LCPA Compatible Native Plant List to reduce or eliminate plant material that would provide food, water, and shelter for large flocks of birds that could pose a high risk to aviation. Furthermore, the hydrologic restoration proposed within the conservation areas will be focused on interconnecting wetland systems and is not anticipated to increase wetland hydroperiods within the site.

During the Development Order review process, the applicant will prepare a wildlife monitoring plan, the details of which will be coordinated with the LCPA and Lee County Department of Community Development (DCD) staff. The monitoring plan will consist of periodic observations within the development footprint by a qualified biologist to help identify and reduce potential wildlife hazards during construction activities such as dewatering and other site preparation activities.

2. The vast majority of the subject property is located in a noise sensitive area as described in Section 34-1104 of the Lee County Land Development Code (LDC); specifically, Airport Noise Zones B & C. No residential living units, places of worship, libraries, educational facilities, hospitals, correctional facilities or nursing homes are permitted within Noise Zone B. Since the project falls within Noise Zones B & C, it is subject to the noise notification policy described in Section 34-1104(b) of the LDC.

RESPONSE: Noted.

3. Wildlife on or near airports have the potential to cause an extremely hazardous situation. Section 34-1110(a)8 of the LDC states that any use of land or developments that attract birds and other wildlife that are hazardous to aircraft or airport operations, greater than the existing conditions are prohibits. This project has the potential to attract large volumes of birds, greater than the existing condition, due to land clearing, dewatering, hydrologic improvements, etc. What commitments can the applicant provide (at the CPA level or subsequent rezoning effort) that provide assurances that wildlife attractants can/will be managed at or below existing conditions? Section 34-1110(a)8 of the LDC states that if such attractant is determined to exist by the LCPA and the Federal Aviation Administration (FAA), the landowner will have the full and sole responsibility to eliminate the hazardous situation.

RESPONSE: This comment appears in both the Comprehensive Plan and Planned Development Zoning comment letters; therefore this response will address both applications.

At a Comprehensive Plan level, the applicant is proposing a text amendment that requires an airport wildlife plan to be development and implemented as part of the planned development. Additional the applicant has held meetings with the Lee County Port

Authority between the publication of the comment letter and resubmittal of this response to revise the site design, discuss best management practices, and understand the additional efforts that needs to be made during construction. Many of these items are not associated with Future Land Use or Zoning.

As a result, the applicant has included a discussion of Best Management Practices within Section 7.0 of the Protect Species Management Plan prepared by Passarella and Associates for the concurrent planned development outlining the design deviations for the zoning to harden shorelines and address wading birds. The applicant has also provided proposed conditions for the planned development that outline an Airport Wildlife Management Plan to be provided at the time of Development Order to address specific construction-related Best Management Practices related to dewatering, on-site construction preparation activities, and develop and on-site monitoring program with LCPA and Lee County.

4. The majority of the property is located within the 10,000' hazardous wildlife buffer. Section 34-1110(a)9 of the LDC states that all water management ponds, lakes, conveyances, and other features within 10,000 feet of any public airport are encouraged to be designed and built in accordance with FAA recommendations. 4:1 side slopes along manmade ponds with minimal littoral zones and following the LCPA Airport Compatible/Incompatible Planting Lists could help achieve this.

RESPONSE: As stated above, lakes developed for the Project's stormwater management system will incorporate a hardened shoreline (e.g., rip-rap) and/or steep slopes (i.e., 4:1) to minimize wading bird attractants. These lakes will also be maintained in a manner that keeps them free of both emergent and submergent vegetation such as pickerelweed and red ludwigia, respectively.

5. Any object or structure (including temporary equipment used for construction) within an Airport Obstruction Notification Zone or proposed at a height greater than an imaginary surface extending outward and upward from any point of any SWFIA runway at a slope of 125 to 1 (one foot vertically for every 125 feet horizontally) for a distance up to a height of 125 feet above mean sea level and anything above 125 feet above mean sea level will require a Tall Structures Permit approved by the LCPA as described in sections 34-1107 of the Land Development Code and Lee County Administrative Code 13-7. Additionally, any proposed object or structure at a height greater than an imaginary surface extending outward and upward from any point of any SWFIA runway at a slop of 100 to 1 up to a height of 200 feet above mean sea level and anything above 200 feet above ground level will require the sponsor to acquire a determination of no hazard from the Federal Aviation Administration (FAA) pursuant to 14 CFR Part 77.

RESPONSE: Noted.

6. Per Section 34-1110(a)(1) of the LDC, lights or illumination used in conjunction with streets, parking, signs, or use of land and structures must be arranged and operated in a manner that is not misleading or dangerous to aircraft operating from a public airport..

RESPONSE: Noted. At the time of Development Order application, a photometric plan will be provided for the proposed commercial and residential amenity areas. It is expected that the Port Authority will conduct a review of this application along with Lee County to ensure compliance with LDC Section 34-1110(a)(1).

We believe that the responses above and attached materials provide the information necessary to appropriately respond to the comments provided. Should additional information be necessary to find the application sufficient, please do not hesitate to contact me at 850-354-7624 or email me at tekblad@stearnsweaver.com.

Sincerely,

Tina M. Ekblad

Tina M. Ekblad MPA, AICP
Director of Planning

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Daniels Parkway South
Comprehensive Plan Amendments
CPA2021-00017 & CPA2021-00018

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ATTACHMENT 1

DANIELS PARKWAY SOUTH
COMPREHENSIVE PLAN AMENDMENTS
CPA2021-00017 & CPA2021-00018

APPLICATION FORMS

[June 10, 2022]

EXHIBIT A

OF APPLICATION FORMS

MAP AMENDMENT

APPLICATION FOR A COMPREHENSIVE PLAN AMENDMENT - MAP

Project Name: Daniels Parkway South

Project Description: Amendment to Objective 33.2, Policy 33.2.2 and proposal to establish a new policy under Obj 33.2. Request seeks to establish a new Overlay in the Lee Plan to support a residential development within Southeast Lee.

Map(s) to Be Amended: 1-A, 1-F, 2-D, 4-A, 4-B

State Review Process: ☐ Small-Scale Review ☐ State Coordinated Review ☐ Expedited State Review

1. **Name of Applicant:** Lennar Corporation, Inc. c/o Russell Smith
   Address: 10482 Six Mile Cypress Parkway
   City, State, Zip: Fort Myers, FL 33966
   Phone Number: 239-278-1177 E-mail: Russell.R.Smith@Lennar.com

2. **Name of Contact:** Tina M. Ekblad, MPA, AICP
   Address: 106 E. College Avenue, Suite 700
   City, State, Zip: Tallahassee, FL 32301
   Phone Number: 850-354-7624 E-mail: tekblad@stearnsweaver.com

3. **Owner(s) of Record:** Jared Holes Trust for Land Trust Number 5018
   Address: 2500 Tamiami Trail N., Suite 214
   City, State, Zip: Naples, FL 34103
   Phone Number: E-mail:

4. **Property Location:**
   1. Site Address: See attached Property Location Chart
   2. STRAP(s): See attached Property Location Chart

5. **Property Information:**
   Total Acreage of Property: 1,233.08 acres Total Acreage Included in Request: 1,233.08 acres
   Total Uplands: 700.57 acres Total Wetlands: 532.51 Current Zoning: AG-2
   Current Future Land Use Category(ies): Central Urban, DR/GR, Wetland
   Area in Each Future Land Use Category: Central Urban 84.52, DR/GR 616.05, Wetlands 532.51
   Existing Land Use: Agriculture

6. **Calculation of maximum allowable development under current Lee Plan:**
   Residential Units/Density: 933.4 Commercial Intensity: 1 Mill SF Industrial Intensity:

7. **Calculation of maximum allowable development with proposed amendments:**
   Residential Units/Density: 1,859 Commercial Intensity: 1 Mill SF Industrial Intensity:

Public Facilities Impacts

NOTE: The applicant must calculate public facilities impacts based on the maximum development.

1. **Traffic Circulation Analysis**: The analysis is intended to determine the affect of the land use change on the Financially Feasible Highway Plan Map 3A (20-year plus horizon) and on the Capital Improvements Element (5-year horizon). Toward that end, an applicant must submit a Traffic Impact Statement (TIS) consistent with Lee County Administrative Code (AC)13-17.

    a. Proposals affecting less than 10 acres, where development parameters are contained within the Traffic Analysis Zone (TAZ) or zones planned population and employment, or where there is no change in allowable density/ intensity, may be eligible for a TIS requirement waiver as outlined in the Lee County TIS Guidelines and AC-13-17. Identification of allowable density/intensity in order to determine socio-economic data for affected TAZ(s) must be coordinated with Lee County Planning staff. Otherwise a calculation of trip generation is required consistent with AC-13-17 and the Lee County TIS Guidelines to determine required components of analysis for:

        i. Total peak hour trip generation less than 50 total trip ends – trip generation.

        ii. Total peak hour trip generation from 50 to 300 total trip ends – trip generation, trip distribution and trip assignment (manual or Florida Standard Urban Transportation Modeling Structure (FSUTMS) analysis consistent with AC-13-17 and TIS Guidelines), short-term (5 year) and long-range (to current Lee Plan horizon year) segment LOS analysis of the nearest or abutting arterial and major collector segment(s) identified in the Transportation Inventory based on the trip generation and roadway segment LOS analysis criteria in AC-13-17. A methodology meeting is recommended prior to submittal of the application to discuss use of FSUTMS, any changes to analysis requirements, or a combined CPA and Zoning TIS short term analysis.

        iii. Total peak hour trip generation is over 300 total trip ends - trip generation, mode split, trip distribution and trip assignment (manual or FSUTMS analysis consistent with AC-13-17 and TIS Guidelines), short-term (five-year) and long-range (to current Lee Plan horizon year) segment LOS analysis of arterial and collector segments listed in the Transportation Inventory. LOS analysis will include any portion of roadway segments within an area three miles offset from the boundary of the application legal description metes and bounds survey. LOS analysis will also include any additional segments in the study area based on the roadway segment LOS analysis criteria in AC-13-17. A methodology meeting is required prior to submittal of the application.

    b. Map amendment - greater than 10 acres -Allowable density/intensity will be determined by Lee County Planning staff.

2. **Provide an existing and future conditions analysis for the following (see Policy 95.1.3):**
    a. Sanitary Sewer
    b. Potable Water
    c. Surface Water/Drainage Basins
    d. Parks, Recreation, and Open Space
    e. Public Schools

Analysis for each of the above should include (but is not limited to) the following (see the Lee County Concurrency Management Report):

a. Franchise Area, Basin, or District in which the property is located
b. Current LOS, and LOS standard of facilities serving the site
c. Projected 2030 LOS under existing designation
d. Projected 2030 LOS under proposed designation
e. Existing infrastructure, if any, in the immediate area with the potential to serve the subject property
f. Improvements/expansions currently programmed in 5 year CIP, 6-10 year CIP, and long range improvements
g. Provide a letter of service availability from the appropriate utility for sanitary sewer and potable water

In addition to the above analysis, provide the following for potable water:

a. Determine the availability of water supply within the franchise area using the current water use allocation (Consumptive Use Permit) based on the annual average daily withdrawal rate.
b. Include the current demand and the projected demand under the existing designation, and the projected demand under the proposed designation.
c. Include the availability of treatment facilities and transmission lines for reclaimed water for irrigation.
d. Include any other water conservation measures that will be applied to the site (see Goal 54).

3. Provide a letter from the appropriate agency determining the adequacy/provision of existing/proposed support facilities, including:

a. Fire protection with adequate response times
b. Emergency medical service (EMS) provisions
c. Law enforcement
d. Solid Waste
e. Mass Transit
f. Schools

In reference to above, the applicant must supply the responding agency with the information from application items 5, 6, and 7 for their evaluation. This application must include the applicant's correspondence/request to the responding agency.

Environmental Impacts

Provide an overall analysis of the character of the subject property and surrounding properties, and assess the site's suitability for the proposed change based upon the following:

1. A map of the Plant Communities as defined by the Florida Land Use Cover and Classification system (FLUCCS).
2. A map and description of the soils found on the property (identify the source of the information).
3. A topographic map depicting the property boundaries and 100-year flood prone areas indicated (as identified by FEMA).
4. A map delineating the property boundaries on the most recent Flood Insurance Rate Map.
5. A map delineating wetlands, aquifer recharge areas, and rare & unique uplands.
6. A table of plant communities by FLUCCS with the potential to contain species (plant and animal) listed by federal, state or local agencies as endangered, threatened or species of special concern. The table must include the listed species by FLUCCS and the species status (same as FLUCCS map).

Impacts on Historic Resources

List all historic resources (including structure, districts, and/or archaeologically sensitive areas) and provide an analysis of the proposed change's impact on these resources. The following should be included with the analysis:

1. A map of any historic districts and/or sites listed on the Florida Master Site File which are located on the subject property or adjacent properties.
2. A map showing the subject property location on the archaeological sensitivity map for Lee County.

Internal Consistency with the Lee Plan

1. Discuss how the proposal affects established Lee County population projections, Lee Plan Table 1(b) and the total population capacity of the Lee Plan Future Land Use Map.
2. List all goals and objectives of the Lee Plan that are affected by the proposed amendment or that affect the subject property. This analysis should include an evaluation of all relevant policies under each goal and objective.
3. Describe how the proposal affects adjacent local governments and their comprehensive plans.

State Policy Plan and Regional Policy Plan

List State Policy Plan and Regional Policy Plan goals, strategies and actions, and policies which are relevant to this plan amendment.

Justify the proposed amendment based upon sound planning principles

Support all conclusions made in this justification with adequate data and analysis.

Planning Communities/Community Plan Area Requirements

If located within a planning community/community plan area, provide a meeting summary document of the required public informational session [Lee Plan Goal 17].

Sketch and Legal Description

The certified legal description(s) and certified sketch of the description for the property subject to the requested change. A metes and bounds legal description must be submitted specifically describing the entire perimeter boundary of the property with accurate bearings and distances for every line. The sketch must be tied to the state plane coordinate system for the Florida West Zone (North America Datum of 1983/1990 Adjustment) with two coordinates, one coordinate being the point of beginning and the other an opposing corner. If the subject property contains wetlands or the proposed amendment includes more than one land use category a metes and bounds legal description, as described above, must be submitted in addition to the perimeter boundary of the property for each wetland or future land use category.

SUBMITTAL REQUIREMENTS

Clearly label all submittal documents with the exhibit name indicated below.

For each map submitted, the applicant will be required to submit a 24"x36" version and 8.5"x11" reduced map for inclusion in public hearing packets.

MINIMUM SUBMITTAL ITEMS (3 Copies)

☐	Completed Application (Exhibit – M1)
☐	Filing Fee (Exhibit – M2)
☐	Disclosure of Interest (Exhibit – M3)
☐	Surrounding Property Owners List, Mailing Labels, and Map For All Parcels Within 500 Feet of the Subject Property (Exhibit – M3)
☐	Future Land Use Map - Existing and Proposed (Exhibit – M4)
☐	Map and Description of Existing Land Uses (Not Designations) of the Subject Property and Surrounding Properties (Exhibit – M5)
☐	Map and Description of Existing Zoning of the Subject Property and Surrounding Properties (Exhibit – M6)
☐	Signed/Sealed Legal Description and Sketch of the Description for Each FLUC Proposed (Exhibit – M7)
☐	Copy of the Deed(s) of the Subject Property (Exhibit – M8)
☐	Aerial Map Showing the Subject Property and Surrounding Properties (Exhibit – M9)
☐	Authorization Letter From the Property Owner(s) Authorizing the Applicant to Represent the Owner (Exhibit – M10)
☐	Lee Plan Analysis (Exhibit – M11)
☐	Environmental Impacts Analysis (Exhibit – M12)
☐	Historic Resources Impact Analysis (Exhibit – M13)
☐	Public Facilities Impacts Analysis (Exhibit – M14)
☐	Traffic Circulation Analysis (Exhibit – M15)
☐	Existing and Future Conditions Analysis - Sanitary Sewer, Potable Water, Surface Water/Drainage Basins, Parks and Rec, Open Space, Public Schools (Exhibit – M16)
☐	Letter of Determination For the Adequacy/Provision of Existing/Proposed Support Facilities - Fire Protection, Emergency Medical Service, Law Enforcement, Solid Waste, Mass Transit, Schools (Exhibit – M17)
☐	State Policy Plan and Regional Policy Plan (Exhibit – M18)
☐	Justification of Proposed Amendment (Exhibit – M19)
☐	Planning Communities/Community Plan Area Requirements (Exhibit – M20)

APPLICANT – PLEASE NOTE:

Once staff has determined the application is sufficient for review, 15 complete copies will be required to be submitted to staff. These copies will be used for Local Planning Agency hearings, Board of County Commissioners hearings, and State Reviewing Agencies. Staff will notify the applicant prior to each hearing or mail out to obtain the required copies.

If you have any questions regarding this application, please contact the Planning Section at (239)533-8585.

AFFIDAVIT

I,_____, certify that I am the owner or authorized representative of the property described herein, and that all answers to the questions in this application and any sketches, data, or other supplementary matter attached to and made a part of this application, are honest and true to the best of my knowledge and belief. I also authorize the staff of Lee County Community Development to enter upon the property during normal working hours for the purpose of investigating and evaluating the request made through this application.

_____ _____

Signature of Applicant Date

_____

Printed Name of Applicant

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was sworn to (or affirmed) and subscribed before me by means of ☐ physical presence or ☐ onlinenotarization on_____(date) by (name of person providing oath or affirmation), who is personally known to me or who has produced _____(type of identification) as identification.

_____

Signature of Notary Public

_____

(Name typed, printed or stamped)

EXHIBIT B

OF APPLICATION FORMS

TEXT AMENDMENT

APPLICATION FOR A COMPREHENSIVE PLAN AMENDMENT - TEXT

Project Name: **Daniels Parkway South**

Project Description: **Amendment to Objective 33.2., Policy 33.2.2 and proposal to establish a new policy under Obj 33.2. Request seeks to establish a new Overlay in the Lee Plan to support residential development within Southeast Lee.**

State Review Process: ☐ State Coordinated Review ■ Expedited State Review ☐ Small-Scale Text*

***Must be directly related to the implementation of small-scale map amendment as required by Florida Statutes.**

APPLICANT – PLEASE NOTE:
A PRE-APPLICATION MEETING IS REQUIRED PRIOR TO THE SUBMITTAL OF THIS APPLICATION.

Submit 3 copies of the complete application and amendment support documentation, including maps, to the Lee County Department of Community Development.

Once staff has determined that the application is sufficient for review, 15 complete copies will be required to be submitted to staff. These copies will be used for Local Planning Agency, Board of County Commissioners hearings, and State Reviewing Agencies. Staff will notify the applicant prior to each hearing or mail out to obtain the required copies.

If you have any questions regarding this application, please contact the Planning Section at (239)533-8585.

1. **Name of Applicant:** **Lennar Corporation, Inc. c/o Russell Smith**
   Address: **10482 Six Mile Cypress Parkway**
   City, State, Zip: **Fort Myers, FL 33966**
   Phone Number: **239-278-1177** E-mail: **Russell.R.Smith@Lennar.com**

2. **Name of Contact:** **Tina M. Ekblad, MPA, AICP, LEED AP**
   Address: **106 E, College Avenue, Suite 700**
   City, State, Zip: **Tallahassee, FL 32301**
   Phone Number: **850-354-7624** E-mail: **tekblad@stearnsweaver.com**

3. **Property Information:** Provide an analysis of any property within Unincorporated Lee County that may be impacted by the proposed text amendment. **Please see the attached supporting narratives.**

4a. Does the proposed change affect any of the following areas?

If located in one of the following areas, provide an analysis of the change to the affected area.

- ☐ Public Acquisition [Map 1-D]
- ☐ Agricultural Overlay [Map 1-G]
- ☐ Airport Mitigation Lands [Map 1-D]
- ☐ Airport Noise Zones [Map 1-E]
- ☐ Southeast Lee County Residential Overlay [Map 2-D]
- ☐ Mixed Use Overlay [Map 1-C]
- ☐ Community Planning Areas [Map 2-A]
- ☐ Urban Reserve [Map 1-D]
- ☐ Water-Dependent Overlay [Map 1-H]
- ■ Private Recreational Facilities Overlay [Map 1-F]

4b. Planning Communities/Community Plan Area Requirements

If located in one of the following planning communities/community plan areas, provide a meeting summary document of the required public informational session [Lee Plan Goal 17].

☐ N/A	☐ Bayshore [Goal 18]	☐ Boca Grande [Goal 19]	☐ Buckingham [Goal 20]
☐ Caloosahatchee Shores [Goal 21]	☐ Olga [Goal 22]	☐ Captiva [Goal 23]	☐ Greater Pine Island [Goal 24]
■ Lehigh Acres [Goal 25]	☐ North Captiva [Goal 26]	☐ NE Lee County [Goal 27]	☐ Alva [Goal 28]
☐ North Olga [Goal 29]	☐ North Fort Myers [Goal 30]	☐ Page Park [Goal 31]	☐ San Carlos Island [Goal 32]
■ Southeast Lee County [Goal 33]	☐ Tice [Goal 34]		

Public Facilities Impacts

NOTE: The applicant must calculate public facilities impacts based on a maximum development scenario.

1. **Traffic Circulation Analysis**: Provide an analysis of the effect of the change on the Financially Feasible Transportation Plan/Map 3-A (20-year horizon) and on the Capital Improvements Element (5-year horizon).

2. **Provide an existing and future conditions analysis for the following (see Policy 95.1.3):**
   a. Sanitary Sewer
   b. Potable Water
   c. Surface Water/Drainage Basins
   d. Parks, Recreation, and Open Space
   e. Public Schools

Environmental Impacts

Provide an overall analysis of potential environmental impacts (positive and negative).

Historic Resources Impacts

Provide an overall analysis of potential historic impacts (positive and negative).

Internal Consistency with the Lee Plan

1. Discuss how the proposal affects established Lee County population projections, Lee Plan Table 1(b) and the total population capacity of the Lee Plan Future Land Use Map.
2. List all goals and objectives of the Lee Plan that are affected by the proposed amendment. This analysis should include an evaluation of all relevant policies under each goal and objective.
3. Describe how the proposal affects adjacent local governments and their comprehensive plans.
4. List State Policy Plan goals and policies, and Strategic Regional Policy Plan goals, strategies, actions and policies which are relevant to this plan amendment.

Justify the proposed amendment based upon sound planning principles

Support all conclusions made in this justification with adequate data and analysis.

SUBMITTAL REQUIREMENTS

Clearly label all submittal documents with the exhibit name indicated below.

MINIMUM SUBMITTAL ITEMS

☐	Completed application (Exhibit – T1)
☐	Filing Fee (Exhibit – T2)
☐	Pre-Application Meeting (Exhibit – T3)
☐	Proposed text changes (in strike through and underline format) (Exhibit – T4)
☐	Analysis of impacts from proposed changes (Exhibit – T5)
☐	Lee Plan Analysis (Exhibit – T6)
☐	Environmental Impacts Analysis (Exhibit – T7)
☐	Historic Resources Impacts Analysis (Exhibit – T8)
☐	State Policy Plan Analysis (Exhibit – T9)
☐	Strategic Regional Policy Plan Analysis (Exhibit – T10)

RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

ATTACHMENT 2

DANIELS PARKWAY SOUTH
COMPREHENSIVE PLAN AMENDMENTS
CPA2021-00017 & CPA2021-00018

SUPPORTING NARRATIVES

[June 10, 2022]

EXHIBIT A

OF SUPPORTING NARRATIVES

PROJECT NARRATIVE

STEARNS WEAVER MILLER
WEISSLER ALHADEFF & SITTERSON, P.A.

Tina M. Ekblad, MPA, AICP
Highpoint Center
106 E. College Avenue, Suite 700
Tallahassee, FL 32301
(850) 354-7624
tekblad@stearnsweaver.com

Daniels Parkway South
Comprehensive Plan Amendment
Project Narrative

June 10, 2022

The Property subject to the Comprehensive Plan Amendment is approximately 1,233 acres including STRAPS: 09-45-26-00-00003.0000, 08-45-26-00-00001.0030, 17-45-26-00-00001.0010, 16-45-26-00-00001.0000, 21-45-26-00-00001.0000, located at the southeast corner of Daniels Parkway and SR 82. The Property is in a unique location in the County between two arterial roadways, platted neighborhoods, and an International Airport. Due to the Property's size and configuration, part of the Property is within urban service boundaries for Lehigh Acres as well as Southeast Lee County.



Figure 1. Aerial of Subject Property

The Property is within the DR/GR, Wetlands and Central Urban future land use categories as well as the Southeast Lee County and Lehigh Acres Community Planning Areas, which govern future development of the Property. A Map Amendment is proposed for the portion of the Property located within the Central Urban FLU and Lehigh Acres Community Planning Area. A Text

Amendment with accompanying map amendments are proposed for the portion of the Property within the DR/GR and Wetlands FLU in the Southeast Lee County Community Planning Area.

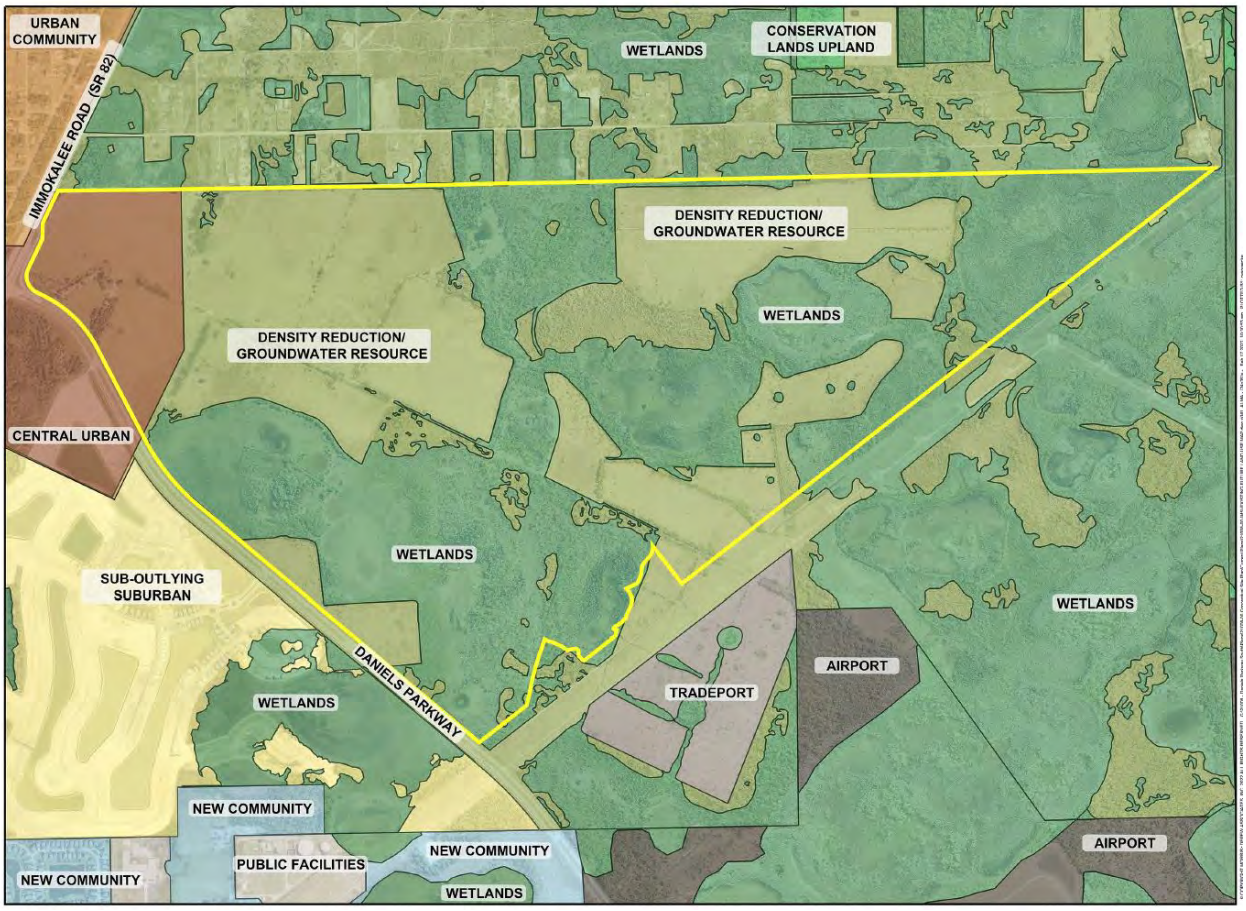

Figure 2. Existing Future Land Use

A formal determination of wetlands and other surface waters on-site was requested of the South Florida Water Management District (SFWMD) pursuant to Rule 62-330.201 Florida Administrative Code. A site visit and wetland limits were verified on January 14, 20 and 21, 2022 by the SFWMD and established 532.51 acres of wetlands and 30.93 acres of Other Surface Waters (OSW). The existing OSW on-site were agricultural ditches and remnants of prior military activity near the intersection of Daniels Parkway and SR 82. A copy of the determination is included in the supporting materials to the Map Amendment request.

As a result of the formal determination, the future land use categories of the subject property establish a maximum density of 933 dwelling units.

Future Land Use	Acreage	Density	Residential Units
DR/GR	616.05	1 DU/10 AC	61.60
Wetlands	532.51	1 DU/20 AC	26.62
Central Urban	84.52	10 DU/AC	845.2
Total Residential Units			**933.42**

Table 1. Existing Density Calculations

The development patterns that can be promoted by each future land use category are dramatically different. The Central Urban area, which is also within one of the mixed use overlays, can establish a clustered development pattern with higher densities and intensities served by central water and sewer. Only the Central Urban portion of the property is within the Lee County Utilities Future Service Area. Conversely, the DR/GR area can only establish 88.2 large lot single family development with well and septic. The pattern of development and use of 88 individual wells and septic systems conflicts with the desire to maintain the quality and quantity of surface and groundwater as envisioned by Lee Plan policy 1.4.5 for the Density Reduction/Groundwater Resource future land use. Additionally the property is within the Private Recreational Facilities Overlay. This Overlay is for properties that are located in areas characterized as "predominately impacted with agricultural, mining or other permitted uses, large lot single or limited ownership patterns and with direct access to existing roadways" in addition to being outside prioritized preservation areas. This Overlay precludes residential uses but permits ancillary commercial uses to a golf course, horse stable and camping facility. These uses also seem to conflict with the desire to maintain the quality and quantity of surface and groundwater as envisioned by Lee Plan policy 1.4.5.

As a result of these dramatically different development patterns for the subject property if developed independently, a map and text amendment with a concurrent planned development are proposed to establish a development strategy and design that promote a comprehensive master plan with unified commercial and residential development enhancing the vision and goals of each planning community, preserves and restores 676.10 acres of wetland and upland habitat (including 58 acres of Rare and Unique Uplands), establishes historic flow paths across the Property and promotes the responsible development of the Property in a manner that cannot be achieved under the existing Lee County requirements.

I. Introduction

The Southeast Lee Community Planning Area is often thought of as synonymous with the DR/GR Future Land Use Category. While this is not the case, the consideration of an enhancement overlay within this planning community has to start with an understanding of this FLU category and the existing land use characteristics of the Property.

The DR/GR is a future land use designation that was assigned to an area spanning approximately 82,560 acres in the southeast portion of Lee County and designated as the Southeast Lee Community Planning Area. The adoption of this land use category was the result of direction from the Department of Economic Opportunity (at the time, Department of Community Affairs) to direct growth to areas where development and infrastructure were already in place as well as to implement a strategy to protect shallow aquifers within this portion of Lee County. The DR/GR future land use category limits residential development to one (1) unit per 10 acres. The Wetlands future land use category, which permeates throughout the DR/GR, limits residential development to one (1) unit per 20 acres. The Southeast Lee County Community Planning Area is outlined in Goal 33 of the Lee Plan; which describes the importance of water resources and wildlife habitat and supports clustered and concentrated development patterns to incorporate protections for these resources into development designs.

Development within the DR/GR has largely occurred through three approaches:

1. Existing Acreage Subdivisions – Rural Subdivisions typically of 1 to 5 or more acre lots for residential and agricultural purposes. Development is supported by individual well and septic system.
2. Land Use Overlay – Several Overlays exist within the Southeast Lee Planning Area that seek to promote concentrated areas of development in a manner that improves and/or restores natural resources within the area.
3. Limerock Mining – Lands approved for mining historically or through the Mine Excavation. As mines have closed some have sought to be included in a land use overlay to promote redevelopment of the property in a manner that improved on-site natural resources.

Traditionally, central water and sewer service was not provided within the Southeast Lee County Planning Area promoting the use of potable well and septic. This seems to be in conflict with the DR/GR Future Land Use intent to maintain the quality and quantity of surface and groundwater as outlined by Policy 1.4.5.

Map 2-D Mixed Use Communities

As part of an evolving regulatory strategy for the Southeast Lee Community Planning Area, an amendment to the Lee Plan was adopted in 2010 that established Objectives 33.2 and 33.3 with their supporting polices and adopted Map 2-D identifying existing development types within the Southeast Lee Community Planning Area. An accompanying amendment was made to the Lee County Utilities Service Area to bring central utilities to specific locations. Map 2-D and Objective 33.3 identified existing residential areas and concentrated existing development rights on large tracts of land identified as Mixed Use Communities.

Since the initial implementation of the Mixed Use Communities, Map 2-D and associated utility service areas, have been amended with Objectives 33.2 and 33.3 and their supporting policies. Today there are 5 types of residential communities described in the Lee Plan and depicted on Map 2-D. Collectively, the strategies associated with these various communities have established a framework for development in the Southeast Lee Planning Community balancing residential and commercial development with environmental preservation. Some of this development within the Southeast Lee Community Planning Area is located along the Corkscrew Road corridor within the Environmental Enhancement Preservation Communities Overlay.

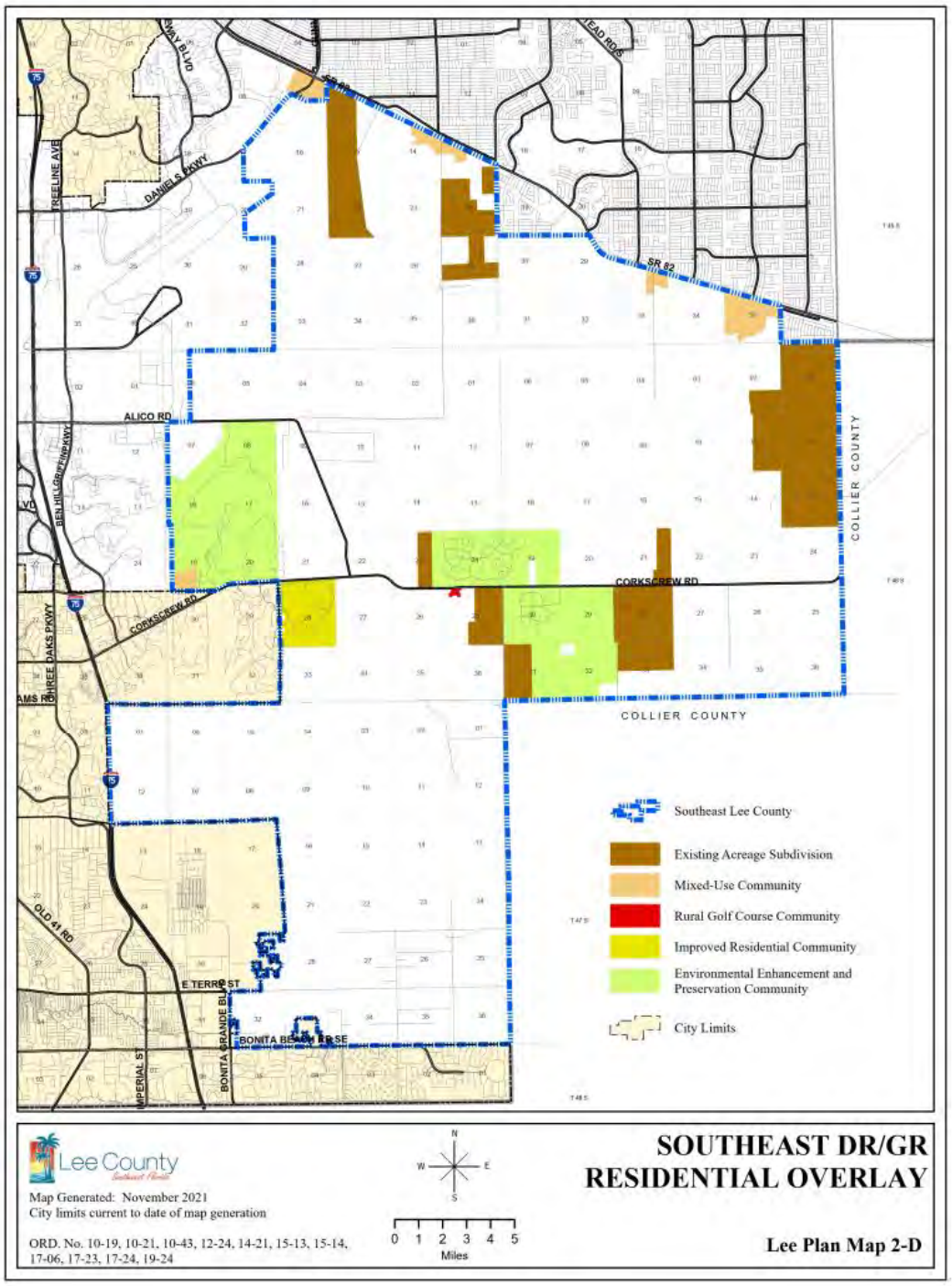

Figure 3. Map 2-D Southeast DR/GR Residential Overlay

Currently, there are six Mixed Use Communities established by Map 2-D - four are within Southeast Lee County and two are within Lehigh Acres. However, none of the Mixed Use Communities within Southeast Lee have developed as originally envisioned. The Mixed Use Community adjacent to WildBlue was excavated when the commercial uses were approved as part of the EEPCO to the east, supporting the project's MPD rezoning. The remaining three Mixed Use

Communities are located on properties currently utilized for agricultural activities and have not been rezoned to permit commercial or residential uses.

Of the two Mixed Use Communities in Lehigh Acres, one is zoned for 250,000 square feet of commercial uses, 150 hotel rooms and 50 multi-family units per Resolution Z-17-019. This community is immediately adjacent to a 1,315 unit residential subdivision known as Timber Creek. Unfortunately since the approval of the MPD in 2017, no development has occurred.

The remaining Mixed Use Community in Lehigh Acres is part of the subject property and is currently zoned AG-2. As part of the Lehigh Acres Planning Community this area is identified to be developed with a mix of two or more uses at the higher end of the density and intensity ranges to promote a sustainable urban development.

Proposed Mixed Use Enhancement Communities Overlay

The Lee Plan currently permits some additional development on contiguous property within 400 feet of the boundary of the Mixed Use Community for the Property. This limitation would impact existing on-site wetlands to cluster permitted development intensity within the existing 400 feet. Additionally, the existing policies do not prioritize the preservation and restoration of existing on-site native vegetative communities, including Rare and Unique Uplands, as well as the re-establishment of natural flow patterns and connection of watershed basins. The proposed Text Amendment seeks to establish a Mixed Use Enhancement Community Overlay to permit additional development beyond 400 ft of an existing Mixed Use Community provided a planned development is submitted demonstrating preservation and restoration of native vegetative communities, preservation and res-establishment of natural flow patterns, and the interconnection of watershed basins. As written, the concurrent review of an Overlay and Planned Development requests will ensure that the proposed development meets these objectives and is conditioned to appropriately address the natural resource priorities of the Southeast Lee Community Plan and Density Reduction Groundwater Resource future land use.

The joint map and text amendment applications together request the following:

1. Amend the Future Land Use Map 1-A for 84.5 acres of the subject property from Central Urban to Intensive Development.
2. Amend Map 1-F to eliminate the Private Recreation Facilities Overlay from the subject property.
3. Amend Maps 4-A and 4-B to extend Lee County Utilities Service Area over 1,148.5 acres of the subject property
4. Amend Map 2-D to include 1,148.5 acres of the subject property within the Mixed Use Community Enhancement Overlay.
5. Amend Policy 1.6.10, Objective 33.2 and Policy 33.2.2 to establish Mixed Use Communities Enhancement Overlay.
6. Amend Policy 1.5.10 to permit density to be summed across Non-Urban Future Land Use categories for properties within the Southeast Lee County Overlay (Map 2-D).
7. Propose new policy 33.2.X to establish the intent and characteristics of Mixed Use Communities Enhancement Overlay.

8. Amend Table 1(b) to reflect additional population within the Intensive Development FLU in the Gateway Planning Community.

II. Proposed Map Amendment

The northernmost 84.5 acres of the subject property are within the Central Urban FLU category and Lehigh Acres Planning Community. This portion of the property is also identified as being within the Lee County Utilities Future Water and Sewer Service Area on Maps 4-A and 4-B as well as a Mixed Use Community on Map 2-D. The current future land use would permit a possible density of 845 dwelling units and is expected to have intense commercial/light industrial development to promote a mix of uses.

A Map Amendment is proposed to place this portion of the property into the Intensive Development FLU Category.

> ***POLICY 1.1.2:*** *The Intensive Development future land use category is located along major arterial roads. By virtue of their location, the County's current development patterns, and the available and potential levels of public services, areas with this designation are suited to accommodate high densities and intensities. Mixed use developments of high-density residential, commercial, limited light industrial, and office uses are encouraged to be developed as described in Objective 11.1, where appropriate. The standard density range is from eight dwelling units per acre (8 du/acre) to fourteen dwelling units per acre (14 du/acre), with a maximum total density of twenty-two dwelling units per acre (22 du/acre). The maximum total density may be increased to thirty dwelling units per acre (30 du/acre) utilizing Greater Pine Island Transfer of Development Units.*

The Property is located adjacent to Immokalee Road (State Road 82) and Daniels Parkway, each classified as arterial roadways. Within the Intensive Development FLU, the Property would yield a maximum of 1,183 dwelling units. Due to the existing capacity of the adjacent roadways, the Property has the opportunity to provide multi-family residential development as desired by the Lehigh Acres Community Planning Area with commercial and light industrial uses that benefit the region as identified by Policy 1.1.2. A concurrent mixed-use planned development is proposed for the subject property which will establish 350,000 square feet of commercial uses and multi-family dwelling units within this portion of the property consistent with the Intensive Development FLU category described by Policy 1.1.2 and the Lehigh Acres Community Planning Area described by Goal 25.

To address the additional population that will be expected within the Intensive Development FLU, an amendment to Table 1(b) is proposed. The concurrent Master Concept Plan shows approximately 14 acres of multi-family development will occur within the Intensive Development FLU. This acreage is proposed to be added to Table 1(b) through a reduction of New Community and Central Urban. These reductions represent an accurate accounting of development that has occurred within the Planning Community due to the build out of the Gateway Community and Timber Creek and can be allocated toward the proposed project. A strikethrough/underline version of Table 1(b) is included in the supporting materials for review.

In addition to the requested Future Land Use Map amendment, other amendments to the Map Series are proposed to achieve consistency with the Text Amendment outlined below. The remaining 1,148.5 acres of the property will continue to be within the Density Reduction Groundwater Resource and Wetlands Future Land Use Categories. To promote a unified development pattern that protects groundwater resources, the following map amendments are also requested.

- Maps 4-A and 4-B: Lee County Utilities Service Area. Extend the service area to include the portion of the property within the DR/GR Future Land Use. Currently the 84.5 acres of the Property within the Central Urban FLU are within the LCU Service Area. The requested map amendment will permit the additional residential proposed by the FLU Map amendment and new policy 33.2.X to be served by central water and sewer service.
- Map 2-D: Southeast DR/GR Residential Overlay. Establish the Mixed Use Enhancement Communities Overlay and apply it to the portion of the property within the Southeast Lee Community Planning Area.
- Map 1-F: Private Recreational Facilities Overlay. Eliminate the Overlay from the portion of the property within the Southeast Lee Community Planning Area.

III. Proposed Text Amendment

A companion text amendment is proposed for the remaining 1,148.5 acres of the property under unified ownership to promote a more contiguous and compact pattern of development than might otherwise result from development without these amendments under the existing land use regulations. Policy 33.2.X of the Lee Plan is being proposed to establish an additional Overlay depicted on Map 2-D to allow for increased density within properties contiguous to and more than 400 feet from an existing Mixed Use Community.

The proposed text amendment includes the preservation and/or restoration of existing wetland and upland habitat to restore flow paths across the property where they previously existed. This proposal will support restoration of the property from two perspectives:

1. Removal of the north/south agricultural road will enable re-establishment of the interconnection of a historic flow pattern from west to east across the property.
2. Restoration of the existing wetlands and adjacent upland habitats will enable interconnection of the existing systems to further promote a historic flow pattern from north to south.

The subject property has been hydrologically divided into east and west sections due to an existing north/south internal farm road that supports the existing agricultural operations. As part of the management of surface water related to the existing and historical agricultural operations, an extensive network of ditches and berms have been constructed on the property leading to the portioning of the existing on-site wetlands. The historical path of surface water across the subject property is bifurcated by the north/south internal farm road and the internal agricultural berm and ditch system. This same internal farm road has been used by the SFWMD to represent the division between the Estero River and Six Mile Cypress watershed basins.

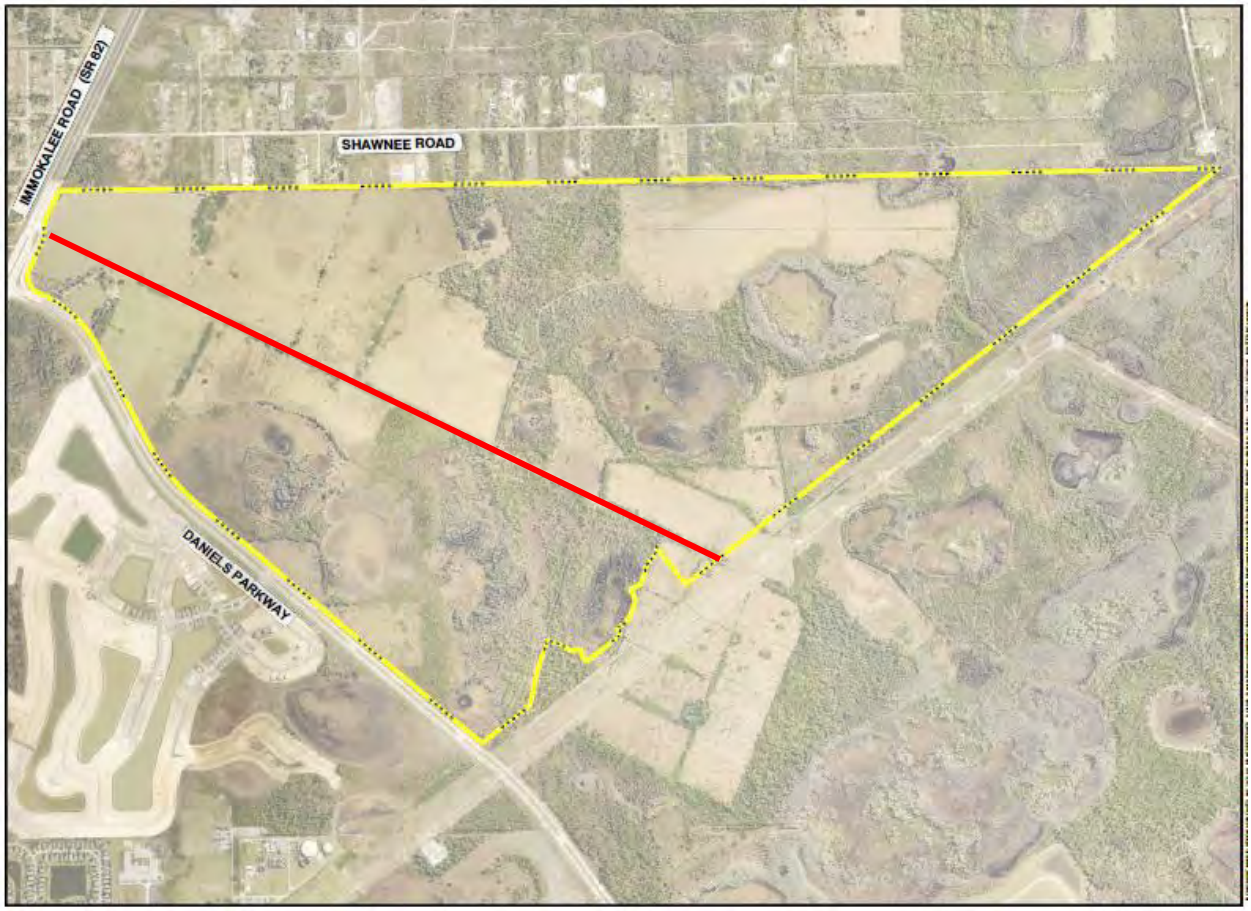

Figure 3. Subject Property with Agricultural Road Highlighted

In recognition of the competing concerns related to wildlife attractants and the proximity of the airport, the proposed restoration of the property does not include the creation of wetland habitats - only replacement of exotics with "like-for-like" native wetland vegetation to restore the areas that have been historically adversely impacted by the construction of berms, exotic infestation, and adjacent agricultural activities. The Master Concept Plan associated with the concurrent planned development application has been updated to reduce the development footprint proposed and attempt to limit the development area to the portions of the property impacted by the existing agricultural activity. As a result of the revised development layout the amount of Rare and Unique upland habitat restored on-site has increased in addition to the previous proposed wetland and upland restoration. Additionally, the Master Concept Plan demonstrates a connection across the existing basin boundary will be provided via a physical infrastructure improvement to the property reducing standing water on-site and wading bird foraging areas to promote increased compatibility with the Southwest Florida International Airport. These improvements promote the appropriate direction and path for surface water as demonstrated by historic mapping rather than continuing to rely on the existing agricultural berm and ditch systems internal to the property and wetland systems.

As a result of the improvements to the native vegetation, surface water connections, and groundwater recharge, the proposed text amendment includes a calculation of incentive density

based on the acreage of preserved and restored wetland and upland habitat. Many of the existing Overlays within the Southeast Lee Community Planning Area provide incentive density for preservation and restoration activities. The proposed text amendment seeks to only calculate density incentives from the 55% of the Property preserved and restored for native habitat.

The companion environmental reports prepared by Passarella and Associates demonstrate the following elements will occur on-site and qualify for incentive density.

- Preservation of 295.80 acres of indigenous wetlands and uplands
- Restoration of 359.60 acres of indigenous wetlands and uplands.
- Backfill 6.90 acres of other surface waters and replant with native vegetation
- Remove 16.8 acres of berms and replant with native vegetation.

The text amendment proposes to provide 1 incentive dwelling unit for each preserved and/or restored acre of wetlands and uplands. This is a reduction from the other existing overlays; which provide incentives based on the entire acreage of the concurrent planned development.

	Acres	**Density**	**Total Units**
Intensive Development	84.5	14 DU/AC	1,183
Preservation & Restoration	676.10	1 DU/AC	676
TOTAL RESIDENTIAL UNITS			**1,859**

Table 2. Proposed Density Calculations

The proposed site design implemented by the Master Concept Plan of the concurrent planned development demonstrates a clustered development pattern increasing the area of preservation and restoration proposed, including the amount of Rare and Unique Upland habitat preserved and restored on-site. As outlined by the Indigenous Preservation and Restoration Management Plan prepared by Passarella and Associates, the proposed development includes 676.10 acres of preservation and restoration. While the available maximum density is 1,859 dwelling units, the concurrent planned development limits the total maximum residential dwelling units to 1,600 dwelling units.

To aid in the evaluation of the proposed development, the text amendment requires the planned development submittal to include an indigenous preservation, restoration and management plan, enhancement lake management plan, plantings compatible with the Port Authority's planting list, and a management plan addressing wildlife on-site. Each of these plans and/or associated conditions are provided with the concurrent planned development application for review and evaluation. The enhanced lake management plan also includes an outline of the initial design methods to increase the shoreline slope of the proposed stormwater management lakes and deviations are requested to provide compatible plantings and/or hardened infrastructure along the shoreline consistent with the FAA vegetation and wildlife guidelines.

IV. Surrounding Properties

The Property is surrounded by a mix of uses in an area of Lee County that has significant residential and airport related development as well as vacant land and preservation areas.

Southwest

Immediately to the southwest of the subject property is a ±485-foot wide FPL easement on lands owned by the Jared Holes Trust which abut county-owned lands servicing Southwest Florida International Airport. The airport occupies a majority of land southeast of Daniels Parkway and the I-75 exchange. According to the Airport Layout Plan, the development of the airport will take place in two phases and is expected to extend into the year 2025. The Airport Layout Plan indicates that, at some point in the future, an expansion will occur for a second runway to be located south of the current runway. In addition, commercial, retail and industrial flex uses are proposed to be added to the airport in the future. Most of these services will be located along the northern boundary of the airport adjacent to Daniels Parkway, with a minor amount located adjacent to the Daniels Preserve center north of Daniels Parkway. As a result of the airport's proximity to the subject property, the existing 10,000' Hazardous Wildlife Buffer around the airport encumbers most of the subject property. Within this area only specifically approved species of vegetation may be utilized and water management lakes must be constructed to specific standards to discourage wildlife and reduce habitat in proximity to the airport.

Northwest

Immediately to the northwest is Daniels Parkway, a controlled access roadway from the segment commencing at US 41 and terminating at SR 82 per Resolution 16-04-08. This designation restricts the number and location of permanent access points along the roadway. The concurrent master concept plan accounts for this designation and aligns the proposed access points of the subject property with the approved access points as demonstrated in Resolution 16-04-08. Further northwest, across Daniels Parkway, is Timber Creek RPD and MPD which is currently under construction. Timber Creek was approved via Resolution #Z-17-019 for up to 1,315 dwelling units within the RPD portion, as well as 50 multi-family dwelling units, 250,000 square feet of commercial floor area, and 150 hotel rooms to be located within the MPD portion of the project.

North

The subject property is bounded to the north by SR 82, a 200-foot wide state-maintained arterial roadway. The SR 82 and Daniels Parkway intersection is the location of Florida's first Continuous Flow Interchange (CFI). Further north of SR 82, is the platted community of Lehigh Acres. A majority of the properties adjacent to SR 82 are zoned for commercial uses but have not been constructed. The remaining portion of Lehigh in this general vicinity is scattered residential development on the existing platted lots.

EXHIBIT B

OF SUPPORTING NARRATIVES

REVISED TEXT AMENDMENT
EXHIBIT – T4

STEARNS WEAVER MILLER
WEISSLER ALHADEFF & SITTERSON, P.A.

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Daniels Parkway South
Text Amendment
Exhibit T4

June 10, 2022

POLICY 1.6.10: The Southeast Lee County Overlay (Map 2-D) is described in Objective 33.2. Thisese overlay affects only Southeast Lee County and identifies ~~five~~ six types of ~~land~~ communities:

1. "Existing Acreage Subdivisions:" Existing rural residential subdivisions that should be protected from adverse external impacts such as natural resource extraction.
2. "Rural Golf Course Communities:" Potential locations for the concentration of development rights on property zoned Private Recreational Facilities Planned Development and located in the Southeast Density Reduction/Groundwater Resource area.
3. "Mixed-Use Communities:" Locations where this concentration of development rights from large contiguous tracts with the Density Reduction/Groundwater Resource area that can be supplemented by transfer of development rights from non-contiguous tracts in the Southeast Density Reduction/Groundwater Resource area. See Objective 33.32 and following policies.
4. "Mixed Use Enhancement Communities:" Specific properties that preserve and restore natural resources, hydrological connections, and wildlife habitat and concentrate development rights on large tracts adjacent to existing future urban areas and Mixed Use Communities. See Objective 33.2 and following policies.

~~4~~5."Improved Residential Communities:" Property with existing residential approvals that are inconsistent with the Southeast Density Reduction/Groundwater Resource area that could be improved environmentally.

~~5~~6. "Environmental Enhancement and Preservation Communities:" Properties adjacent to Corkscrew and Alico Roads that have the potential to improve and restore important regional hydrological and wildlife connections.

POLICY 5.1.10: In those instances where contiguous land under single ownership is ~~divided~~ int~~o~~ two or more land use categories ~~by the adoption or revision of the Future Land Use Map~~, the allowable density under this Plan will be the sum of the allowable densities for each land use category for each portion of the land. This density can be allocated across the property provided that:

1. The planned development zoning is utilized; and

2. No density is allocated to lands designated as non-urban or Environmentally Critical that would cause the density to exceed that allowed on such areas unless those lands

are within a community described by the Southeast Lee County Overlay in Policy 1.6.10; and

~~3. The land was under single ownership at the time this policy was adopted and is contiguous; in situations where land under single ownership is divided by roadways, railroads, streams (including secondary riparian systems and streams but excluding primary riparian systems and major flow-ways such as the Caloosahatchee River and Six Mile Cypress Slough), or other similar barriers, the land will be deemed contiguous for purposes of this policy; and~~

34. The resultant planned development affords further protection to environmentally sensitive lands if they exist on the property. (Ord. No. 92-35, 00-22, 07-12)

Objective 33.2: RESIDENTIAL AND MIXED-USE DEVELOPMENT. Designate on a Future Land Use Map overlay areas that should be protected from adverse impacts of mining (Existing Acreage Subdivisions), specific locations for concentrating existing development rights on large tracts (Mixed-Use Communities), specific properties which provide opportunities to protect, preserve, and restore strategic regional hydrological and wildlife connections (Environmental Enhancement and Preservation Communities), specific properties that preserve and restore natural resources, hydrological connections and wildlife habitat and concentrate development rights on large tracts (Mixed Use Enhancement Community), and vacant properties with existing residential approvals that are inconsistent with the Density Reduction/Groundwater Resources future land use category (Improved Residential Communities).

POLICY 33.2.2: Map 2-D identifies future locations for Mixed-Use Communities where development rights can be concentrated from large Southeast Lee County tracts into Traditional Neighborhood Developments or other clustered development patterns. The preferred pattern for residential development is to cluster density within Mixed-Use Communities with access to ~~along~~ existing roads ~~and away from Future Limerock Mining areas~~.

1. Southeast Lee County Mixed-Use Communities must be concentrated from contiguous property owned under single ownership or control. Residential density is calculated from the upland and wetland acreage of the entire contiguous Southeast Lee County property. Increases in residential densities may be approved through:
    a. a planned development consistent with Policy 33.2.X.
    b. incentives as specified in the LDC for permanent protection of indigenous native uplands on the contiguous tract (up to one extra dwelling unit allowed for each five acres of preserved or restored indigenous native uplands) and
    c. through the acquisition of TDUs from TDR sending areas within Southeast Lee County as provided in Objective 33.3..
        i. The maximum gross density is 5 dwelling units per acre of total land designated as a Mixed Use Community when TDUs are used.
        ii. Properties that concentrate development rights and/or use TDUs created from Southeast Lee County within the Mixed-Use Communities identified on Map 2-D will be allowed to develop using permitted uses and the property development regulations for the C-2A zoning district.

2. Contiguous property under the same ownership may be developed as part of a Mixed-Use Community provided it does not extend more than 400 feet beyond the perimeter of the Mixed Use Community as designated on Map 2-D. In a Mixed Use Enhancement Community developed as a planned development consistent with Policy 33.2.X, all contiguous property under the same ownership and control at the time of application may be included.
3. Central water and wastewater services are required to develop a Mixed-Use Community.
4. Commercial uses developed as part of a Mixed-Use Community will be consistent with Policy 33.3.5 and will not exceed the allowable total square footage for commercial uses in Southeast Lee County.

[NEW] POLICY 33.2.X: Contiguous property under single ownership or control at the time of the planned development application may be developed as a Mixed Use Enhancement Community provided it is immediately adjacent to a Mixed Use Community on Map 2-D or to an Urban Future Land Use Category and proposes to preserve, and restore surface and groundwater resources and indigenous wildlife habitats on such contiguous property. As an incentive to cluster development and preserve and restore surface and groundwater resources along with wildlife habitat for state and federally listed species additional densities may be granted if:

1. A portion of the property is within the "Mixed Use Enhancement Community" as designated on Map 2-D of the Lee Plan and consistent with the criteria below:
   a) Located adjacent to a Mixed Use Community and Urban Future Land Use Category with direct access to an arterial road.
   b) Proposes to preserve and restore surface and groundwater resources and indigenous wildlife habitats; and
   c) Develops as a planned development.
2. The planned development requires the following:
   a. The Mixed Use Community and adjacent property under unified ownership or control are included in the planned development application.
   b. The Master Concept Plan must demonstrate:
      i. Clustered development pattern proximate to the Mixed Use Community and adjacent arterial roadways that maintains large contiguous tracts of open space and protects environmentally sensitive areas;
      ii. Preservation or restoration of existing wetland and upland habitat, including Rare and Unique Upland habitats, which will be used to:
         1. Restore hydrological connectivity or flow-ways where they are currently or previously existed;
         2. Sustain and help restore existing and historic groundwater levels; or
         3. Preserve, enhance and restore indigenous Rare and Unique upland habitats.
      iii. Indigenous Preservation Areas that:
         1. Are a minimum of 55% of the planned development.
         2. Have an Indigenous Preservation, Restoration and Management Plan addressing:
            a. Preliminary restoration plans, demonstrating minimum dimensions required for indigenous open space areas set forth in the LDC;
            b. Methods for exotic and nuisance plant removal;

c. Wetland hydrological reconnections;
d. Lands identified for the restoration/creation of Rare and Unique Upland habitat containing the soil(s) needed to support the establishment and success of the indigenous Rare and Unique upland habitats;
e. Replanting plans;
f. Management plans with success criteria, monitoring, and maintenance for 5 consecutive years; and
g. Protected species, Airport Wildlife Management, and human-wildlife coexistence plans.

3. Will be platted in separate tracts and dedicated to an appropriate maintenance entity. Prior to the Certificate of Compliance (CC) for the first development order, a Community Development District or master property owners association must be created and accept responsibility for perpetually maintaining preservation areas larger than 300 acres.
4. Will be placed under Conservation Easement dedicated to a maintenance entity that provides Lee County (or other public agency) with third party enforcement rights. Conservation easements must be recorded within 5 years of first development order approval.

c. An enhanced lake management plan including:
   i. Best management practices for fertilizers and pesticides;
   ii. Erosion control and bank stabilization practices; and
   iii. Lake maintenance requirements.
d. A water quality monitoring plan demonstrating that stormwater leaving the development meets state and federal water quality standards.
e. Agricultural irrigation and use of fertilizers (or other agricultural chemicals) for agricultural purposes must cease at the time of first development order approvals.
f. Protection of public wells by demonstrating compliance with the Wellfield Protection Ordinance.
g. Florida Friendly Plantings and/or Lee County Port Authority (LCPA) Compatible Plantings with low irrigation requirements in common elements will be encouraged.
h. Written verification of adequate public services for the planned development from the sheriff, EMS, fire district and Lee County School District.

3. As a result of supporting a Mixed Use Enhancement Community, the recreation of historic flow paths, preservation of natural habitat, and restoration or creation of Rare and Unique Uplands, additional incentive density equal to one (1) dwelling unit per acre of preserved or restored wetland or upland habitat may be approved through planned developments meeting the criteria above.
   a. Additional incentive density will be based upon the acreage of preserved or restored wetland or upland habitat (i.e. all areas within the boundary of the planned development whether uplands or wetlands).
   b. Density from the contiguous Mixed Use Community and Urban Future Land Use Category may be transferred into the area of the Mixed Use Enhancement Community.

EXHIBIT C

OF SUPPORTING NARRATIVES

TABLE 1(B)

Table 1(b) Year 2045 Allocations

	Future Land Use Category	Unincorporated County		Planning District								
				District 1 Northeast Lee County	District 2 Boca Grande	District 3 Bonita	District 4 Fort Myers Shores	District 5 Burnt Store	District 6 Cape Coral	District 7 Captiva	District 8 Fort Myers	District 9 Fort Myers Beach
		Existing	Proposed									
Residential By Future Land Use Category	**Intensive Development**	1,483	1,497	-	-	-	17	-	21	-	238	-
	Central Urban	13,838	13,836	-	-	-	207	-	-	-	230	-
	Urban Community	22,739	22,739	813	453	-	475	-	-	-	-	-
	Suburban	14,913	14,913	-	-	-	1,950	-	-	-	80	-
	Outlying Suburban	3,648	3,648	25	-	-	490	13	3	429	-	-
	Sub-Outlying Suburban	1,731	1,731	-	-	-	330	-	-	-	-	-
	Commercial	-	-	-	-	-	-	-	-	-	-	-
	Industrial	15	15	-	-	-	-	-	-	-	-	-
	Public Facilities	-	-	-	-	-	-	-	-	-	-	-
	University Community	503	503	-	-	-	-	-	-	-	-	-
	Destination Resort Mixed Use Water Dependent	8	8	-	-	-	-	-	-	-	-	-
	Burnt Store Marina Village	2	2	-	-	-	-	2	-	-	-	-
	Industrial Interchange	-	-	-	-	-	-	-	-	-	-	-
	General Interchange	114	114	-	-	-	-	-	-	-	-	-
	General Commercial Interchange	-	-	-	-	-	-	-	-	-	-	-
	Industrial Commercial Interchange	-	-	-	-	-	-	-	-	-	-	-
	University Village Interchange	-	-	-	-	-	-	-	-	-	-	-
	New Community	2,104	2,075	1,115	-	-	-	-	-	-	-	-
	Airport	-	-	-	-	-	-	-	-	-	-	-
	Tradeport	3	3	-	-	-	-	-	-	-	-	-
	Rural	7,764	7,764	2,431	-	-	800	730	-	-	-	-
	Rural Community Preserve	3,517	3,517	-	-	-	-	-	-	-	-	-
	Coastal Rural	1,338	1,338	-	-	-	-	-	-	-	-	-
	Outer Island	233	233	2	4	-	1	-	-	169	-	-
	Open Lands	2,186	2,186	153	-	-	-	257	-	-	-	-
	Density Reduction/ Groundwater Resource	6,974	6,974	131	-	-	-	-	-	-	-	-
	Conservation Lands Upland	-	-	-	-	-	-	-	-	-	-	-
	Wetlands	-	-	-	-	-	-	-	-	-	-	-
	Conservation Lands Wetland	-	-	-	-	-	-	-	-	-	-	-
	Unincorporated County Total Residential	**83,113**	**83,096**	**4,669**	**457**	**-**	**4,270**	**1,002**	**24**	**598**	**548**	**-**
	Commercial	**8,916**	**8,916**	**300**	**53**	**-**	**450**	**27**	**9**	**125**	**150**	**-**
	Industrial	**4,787**	**4,787**	**30**	**3**	**-**	**300**	**10**	**15**	**70**	**315**	**-**
Non Regulatory Allocations												
	Public	**120,211**	**120,228**	**14,191**	**622**	**-**	**4,864**	**7,323**	**6**	**2,340**	**583**	**-**
	Active AG	**21,944**	**21,944**	**5,500**	**-**	**-**	**240**	**90**	**-**	**-**	**-**	**-**
	Passive AG	**13,685**	**13,685**	**5,500**	**-**	**-**	**615**	**100**	**-**	**-**	**-**	**-**
	Conservation	**87,746**	**87,746**	**2,458**	**297**	**-**	**1,163**	**3,186**	**67**	**1,595**	**926**	**-**
	Vacant	**26,118**	**26,118**	**1,145**	**28**	**-**	**733**	**766**	**8**	**103**	**17**	**-**
	Total	**366,520**	**366,520**	**33,793**	**1,460**	**-**	**12,634**	**12,505**	**129**	**4,831**	**2,538**	**-**
	Population Distribution (unincorporated Lee County)	**584,331**	**584,331**	**8,235**	**1,470**	**-**	**35,253**	**2,179**	**152**	**725**	**5,273**	**-**

Table 1(b) Year 2045 Allocations

	Future Land Use Category	Planning District										
		District 10	District 10	District 11	District 12	District 13	District 14	District 15	District 16	District 17	District 18	District 19
		Gateway / Airport		Daniels Parkway	Iona / McGregor	San Carlos	Sanibel	South Fort Myers	Pine Island	Lehigh Acres	Southeast Lee County	North Fort Myers
		Existing	Proposed									
Residential By Future Land Use Category	**Intensive Development**	-	14	-	-	-	-	801	1	30	-	376
	Central Urban	~~25~~	23	-	656	20	-	3,113	-	7,362	-	2,225
	Urban Community	150	150	-	978	1,318	-	863	540	17,034	-	-
	Suburban	-	-	-	2,566	2,069	-	1,202	659	-	-	6,387
	Outlying Suburban	-	-	1,253	438	-	-	-	502	-	-	406
	Sub-Outlying Suburban	227	227	-	-	13	-	-	-	-	-	145
	Commercial	-	-	-	-	-	-	-	-	-	-	-
	Industrial	6	6	-	3	3	-	3	-	-	-	-
	Public Facilities	-	-	-	-	-	-	-	-	-	-	-
	University Community	-	-	-	-	503	-	-	-	-	-	-
	Destination Resort Mixed Use Water Dependent	-	-	-	8	-	-	-	-	-	-	-
	Burnt Store Marina Village	-	-	-	-	-	-	-	-	-	-	-
	Industrial Interchange	-	-	-	-	-	-	-	-	-	-	-
	General Interchange	15	15	58	-	-	-	-	-	-	8	14
	General Commercial Interchange	-	-	-	-	-	-	-	-	-	-	-
	Industrial Commercial Interchange	-	-	-	-	-	-	-	-	-	-	-
	University Village Interchange	-	-	-	-	-	-	-	-	-	-	-
	New Community	~~989~~	960	-	-	-	-	-	-	-	-	-
	Airport	-	-	-	-	-	-	-	-	-	-	-
	Tradeport	3	3	-	-	-	-	-	-	-	-	-
	Rural	-	-	1,573	-	99	-	-	227	14	-	454
	Rural Community Preserve	-	-	-	-	-	-	-	-	-	-	-
	Coastal Rural	-	-	-	-	-	-	-	1,338	-	-	-
	Outer Island	-	-	-	2	-	-	-	55	-	-	-
	Open Lands	-	-	80	-	-	-	-	-	-	-	30
	Density Reduction/ Groundwater Resource	-	-	-	-	-	-	-	-	-	4,742	-
	Conservation Lands Upland	-	-	-	-	-	-	-	-	-	-	-
	Wetlands	-	-	-	-	-	-	-	-	-	-	-
	Conservation Lands Wetland	-	-	-	-	-	-	-	-	-	-	-
	Unincorporated County Total Residential	~~1,415~~	1,398	2,964	4,650	4,024	-	5,982	3,322	24,440	4,750	10,035
	Commercial	1,216	1,216	326	774	938	-	2,012	288	900	118	1,121
	Industrial	2,134	2,134	5	198	387	-	566	67	218	215	244
Non Regulatory Allocations												
	Public	~~9,660~~	9,677	3,214	4,898	6,364	-	5,883	4,831	20,267	17,992	10,117
	Active AG	2	2	5	13	5	-	-	2,780	35	12,000	90
	Passive AG	485	485	10	-	5	-	-	70	50	2,500	250
	Conservation	2,206	2,206	1,677	9,786	2,232	-	211	15,489	1,077	41,028	1,607
	Vacant	88	88	20	55	158	-	4	2,200	14,804	2,400	1,183
	Total	17,205	17,205	8,221	20,374	14,114	-	14,658	29,047	61,791	81,003	24,649
	Population Distribution (unincorporated Lee County)	22,281	22,281	14,322	44,132	54,615	-	76,582	13,431	162,245	17,369	110,722

Table 1(b) Year 2045 Allocations

	Future Land Use Category	District 20 Buckingham	District 21 Estero	District 22 Bashore
Residential By Future Land Use Category	Intensive Development	-	-	-
	Central Urban	-	-	-
	Urban Community	115	-	-
	Suburban	-	-	-
	Outlying Suburban	-	90	-
	Sub-Outlying Suburban	66	-	950
	Commercial	-	-	-
	Industrial	-	-	-
	Public Facilities	-	-	-
	University Community	-	-	-
	Destination Resort Mixed Use Water Dependent	-	-	-
	Burnt Store Marina Village	-	-	-
	Industrial Interchange	-	-	-
	General Interchange	-	-	20
	General Commercial Interchange	-	-	-
	Industrial Commercial Interchange	-	-	-
	University Village Interchange	-	-	-
	New Community	-	-	-
	Airport	-	-	-
	Tradeport	-	-	-
	Rural	50	-	1,387
	Rural Community Preserve	3,517	-	-
	Coastal Rural	-	-	-
	Outer Island	-	-	-
	Open Lands	-	-	1,667
	Density Reduction/ Groundwater Resource	-	-	2,101
	Conservation Lands Upland	-	-	-
	Wetlands	-	-	-
	Conservation Lands Wetland	-	-	-
Unincorporated County Total Residential		**3,748**	**90**	**6,125**
Commercial		**19**	**18**	**72**
Industrial		**4**	**2**	**4**
Non Regulatory Allocations				
Public		**3,052**	**653**	**3,351**
Active AG		**630**	**4**	**550**
Passive AG		**2,000**	**-**	**2,100**
Conservation		**382**	**1,465**	**895**
Vacant		**850**	**130**	**1,425**
Total		**10,684**	**2,362**	**14,523**
Population Distribution (unincorporated Lee County)		**5,951**	**741**	**8,653**

EXHIBIT D

OF SUPPORTING NARRATIVES

LEE PLAN CONSISTENCY ANALYSIS
EXHIBITS – M11 & T6

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Daniels Parkway South
Comprehensive Plan Amendments
Lee Plan Consistency
June 10, 2022

The Daniels Parkway South property, in its entirety, is approximately ±1,233 acres, located near the intersection of SR 82 and Daniels Parkway. 1,148 acres are in the Southeast Lee County community planning area and 84.5 are in the Lehigh Acres community planning area. The property is comprised of three different Future Land Use Categories: Density Reduction/Groundwater Resource, Wetland, and Central Urban. The development patterns that can be promoted by each future land use category are dramatically different. The Central Urban area, which is also within one of the mixed use overlays, can establish a clustered development pattern with higher densities and intensities served by central water and sewer. Only the Central Urban portion of the property is within the Lee County Utilities Future Service Area. Conversely, the DR/GR area can only establish a large lot single family development with well and septic. The pattern of development and use of well and septic conflict with the desire to maintain the quality and quantity of surface and groundwater as envisioned by Lee Plan Policy 1.4.5.

As a result of these dramatically different possibilities for the subject properties if developed independently, a map and text amendment with concurrent planned development are proposed to establish a development strategy and design that promote a comprehensive master plan with unified commercial and residential development that enhances the vision and goals of each community plan, promoting responsible development that could not be achieved under the existing Lee County requirements.

Future Land Use Map Amendment

As part of the requested amendments, the Future Land Use (FLU) category of the 84.5 acre Central Urban portion of the property is proposed to be placed into the Intensive Development FLU.

> ***POLICY 1.1.2:*** *The Intensive Development future land use category is located along major arterial roads. By virtue of their location, the county's current development patterns, and the available and potential levels of public services, areas within this designation are suited to accommodate high densities and intensities. Mixed use developments of high-density residential, commercial, limited light industrial, and office uses are encouraged to be developed as described in Objective 11.1, where appropriate. The standard density range is from eight dwelling units per acre (8 du/acre) to fourteen dwelling units per acre (14 du/acre) with a maximum total density of twenty-two dwelling units per acre (22 du/acre). The maximum total density may be increased to thirty dwelling units per acre (30 du/acre) utilizing Greater Pine Island Transfer of Development Units.*

The Intensive Development FLU portion of the site is within the Lehigh Acres Community Plan area and located adjacent to two arterial roadways that serve as major travel corridors in the County. Daniels Parkway and SR 82 have arterial roadway functional classifications per the Lee County Road Maintenance System and provide access to other major commercial areas and employment centers in greater Lee

County. Daniels Parkway is a major north-south connector for the residents of Lehigh Acres. North of SR 82, Daniels Parkway becomes Gunnery Road, another major arterial in the Lehigh Acres Community. There are limited east-west connectors between Lehigh Acres and other areas in the County where major employers are located.

Lehigh Acres, the largest community planning area in the County, is a 96 square mile historically platted subdivision of mostly quarter- and half-acre residential lots. As a result of this development pattern and its location in east Lee County it serves as a "bedroom" community. Over time, Lee County has engaged in efforts to incentivize commercial and industrial development in central portions of the Lehigh Acres. As a result, community planning efforts have focused on creating mixed use nodes within the community to promote additional areas for commercial and employment services, but with only varying success. Currently, most commercial needs are met through existing commercial development along Lee Boulevard and the previously described commercial just south of the intersection of Lee Boulevard and Homestead Road. Another planning effort to promote additional commercial and employment areas is visibly demonstrated by the Future Land Use Map, where central portions of the community are within the Central Urban FLU and only a small quadrant of Intensive Development exists at the center of Lehigh Acres for an existing commercial plaza.

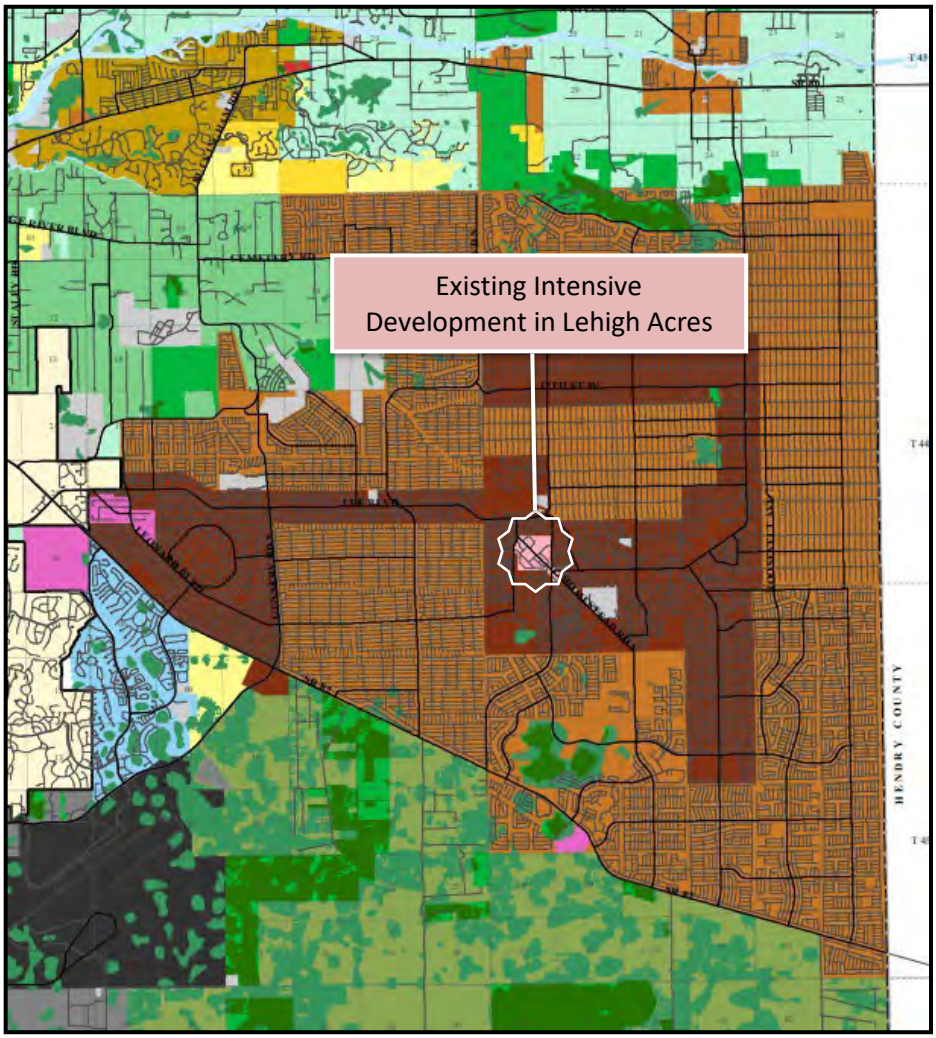

Figure 1. Lehigh Acres Intensive Development FLU

Lee County's recent 2045 Growth Management Update confirms that "the county's future urban areas will be essentially built out by 2045 and to accommodate the population growth an interest in the redevelopment of these areas will continue." This summary is indicative of the area surrounding the existing Intensive Development FLU, which is mostly built out and would require redevelopment to capitalize on the incentives of the underlying future land use. However, due to multiple parcels under separate ownership it is unlikely that redevelopment will occur in the near future. As currently designed and developed, this 162-acre Intensive Development area includes G. Weaver Hipps Elementary School, two commercial plazas, a post office, as well as an assortment of other commercial goods and services. Given the expansive size of Lehigh Acres, this area does not have the mix nor intensity of use to encourage or allow an impactful internal capture within the community plan area.

The requested map amendment to Intensive Development and companion planned development would establish a second significant commercial node with a broad mix of uses that would increase opportunities for services in closer proximity to residents in eastern Lee County.

Text Amendment & Supporting Map Amendments

The remaining 1,148 acres of the subject property is within the DR/GR and Wetlands Future Land Use Category and Southeast Lee Planning Community. The DR/GR is a future land use designation that was assigned to an area spanning approximately 82,560 acres in the southeast portion of Lee County and designated as the Southeast Lee Community Planning Area. The adoption of this land use category was the result of direction from the Department of Economic Opportunity (at the time, Department of Community Affairs) to direct growth to areas where development and infrastructure were already in place as well as to implement a strategy to protect shallow aquifers within this portion of Lee County. The DR/GR future land use category limits residential development to one (1) unit per 10 acres. The Wetlands future land use category, which permeates throughout the DR/GR, limits residential development to one (1) unit per 20 acres.

As part of an evolving regulatory strategy for the Southeast Lee Planning Community, an amendment to the Lee Plan was adopted in 2010 and established Objectives 33.2 and 33.3 with their supporting polices and adopted Map 2-D identifying existing development types within the Southeast Lee Planning Community. Map 2-D and Objective 33.3 identified existing residential areas and concentrated existing development rights on large tracts of land identified as Mixed Use Communities.

Due to the subject property's size and complex land use characteristics, the joint map and text amendment applications together establish the Mixed Use Enhancement Communities Overlay to request the following:

1. Amend Objective 33.2 and Policy 33.2.2 to establish Mixed Use Communities Enhancement Overlay.
2. Propose new Policy 33.2.X to establish the intent and characteristics of Mixed Use Communities Enhancement Overlay.
3. Amend Map 2-D to include 1,148.5 acres of the subject property within the Mixed Use Community Enhancement Overlay.
4. Amend Map 1-F to eliminate the Private Recreation Facilities Overlay from the subject property.

5. Amend Maps 4-A and 4-B to extend Lee County Utilities Service Area over 1,148.5 acres of the subject property
6. Amend Table 1(b) to reflect additional population within the Intensive Development FLU in the Gateway Planning Community.

These proposed amendments will occur at the same time as the amendment to the Future Land Use Map for the 84.5 acres of the Property to be placed in the Intensive Development FLU Category. Together, these amendments will increase the development opportunity on the Central Urban 84.5 acres of the subject property at the SR 82/Daniels Parkway node while leaving 1,148.5 acres within the DR/GR and Wetlands Future Land Use categories. They also establish an Overlay to promote a cohesive development plan for the entire property that enhances the intent and vision of both the Lehigh Acres and Southeast Lee community plans. As written, the Overlay also provides the opportunity to evaluate properties individually for redevelopment to determine, as part of a concurrent planned development, whether the required prerequisites and the proposed development conditions have been met.

POLICY 1.4.5: *The Density Reduction/Groundwater Resource (DR/GR) future land use category includes upland areas that provide substantial recharge to aquifers most suitable for future wellfield development. These areas also are the most favorable locations for physical withdrawal of water from those aquifers. Only minimal public facilities exist or are programmed.*

1. *New land uses in these areas that require rezoning or development order must demonstrate compatibility with maintaining surface and groundwater levels at their historic levels utilizing hydrologic modeling, the incorporation of increased storage capacity, and inclusion of green infrastructure. The modeling must also show that no adverse impacts will result to properties located upstream, downstream, as well as adjacent to the site. Offsite mitigation may be utilized, and may be required, to demonstrate this compatibility. Evidence as to historic levels must be submitted as part of the rezoning application and updated, if necessary as part of the mining development order application.*

2. *Permitted land uses include agriculture, natural resource extraction and related facilities, conservation uses, public and private recreation facilities, and residential uses at a maximum standard density of one dwelling unit per ten acers (1 du/10 acres). See Objectives 33.2 and 33.3 for potential density adjustments resulting from concentration or transfer of development rights.*

3. *Private Recreational Facilities may be permitted in accordance with the site location requirements and design standards, as further defined in Goal 13. No Private Recreational Facilities may occur within the DR/GR land use category without a rezoning to an appropriate planned development category, and compliance with the Private Recreation Facilities performance standards, contained in Goal 13.*

POLICY 1.5.1: *Permitted land uses in Wetlands consist of very low density residential uses and recreational uses that will not adversely affect the ecological functions of wetlands. All development in Wetlands must be consistent with Goal 124. The maximum density is one dwelling unit per twenty acres (1 du/20 acres) except as otherwise provided in Table 1(a) and Chapter XII.*

The proposed amendments will retain these future land use categories for the subject property and utilize an overlay to establish a cohesive development pattern. Consistent with the approved use for the DR/GR future land use category, the proposed planned development demonstrates that only residential units and supporting amenities are proposed outside the Intensive Development FLU. Lee County Utilities has already established the appropriate location for physical withdrawal of water as identified on Lee Plan Map 4-C. The wells providing potable water to Lee County are clustered to the southeast almost 4 miles from the subject property and approximately 4.5 miles northeast from the intersection of SR 82 and Daniels Parkway. The subject property is well outside of the travel zones for these established public water wells.

As further support for the proposed plan amendments, a Drainage Report prepared by Morris-Depew Associates, the Integrated Model Analysis of Daniels South and the Characterization of Ground and Surface Water Resources Reports prepared by Progressive Water Resources are provided as part of the supporting material to the Comprehensive Plan Amendment applications. Combined, the reports clearly demonstrate that the elimination of the existing cattle operation, removal of historic agricultural ditches, and proposed improvements associated with the development of the property will have a positive net hydrological benefit the DR/GR. The proposed development pattern, outlined by the Master Concept Plan of the concurrent planned development, demonstrates some impacts to the ±532.51 acres of wetlands on-site, so a Jurisdictional Determination has been secured from the South Florida Water Management District memorializing the location of the on-site wetlands and is included in the supporting application materials.

Growth Management

The proposed amendments promote a contiguous and compact growth pattern consistent with the existing residential neighborhoods in the surrounding area, including Lehigh Acres, Timber Creek and the Gateway DRI Communities as desired by Objective 2.1 and 2.2.

> ***GOAL 2: GROWTH MANAGEMENT.*** *To provide for an economically feasible plan which coordinates the location and timing of new development with the provision of infrastructure by government agencies, private utilities, and other sources.*
>
> ***OBJECTIVE 2.1: DEVELOPMENT LOCATION.*** *Contiguous and compact growth patterns will be promoted through the rezoning process to contain urban sprawl, minimize energy costs, conserve land, water, and natural resources, minimize the cost of services, and prevent development patterns where large tracts of land are by-passed in favor of development more distant from services and existing communities.*
>
> ***OBJECTIVE 2.2: DEVELOPMENT TIMING.*** *Direct new growth to those portions of the future urban areas where adequate public facilities exist or are assured and where compact and contiguous development patterns can be created. Development orders and permits (as defined in Section 163.3164(7), F.S.) will be granted only when consistent with the provisions of Sections 163.3202(2)(g) and 163.3180, F.S. and the concurrency requirements in the Land Development Code.*

The property is located along a unique stretch of Daniels Parkway – the *only* property abutting Daniels Parkway with a Non-Urban Future Land Use. As further demonstrated in Figure 2, all other properties

abutting Daniels Parkway are within Future Urban Land Use Categories. The request utilizes the map and text amendments to establish a density (1.3 DU/AC) which is less than the existing surrounding residential developments and provides a transition between these communities and the 2 to 5 acre residential lots to the east and undeveloped lands to the south.

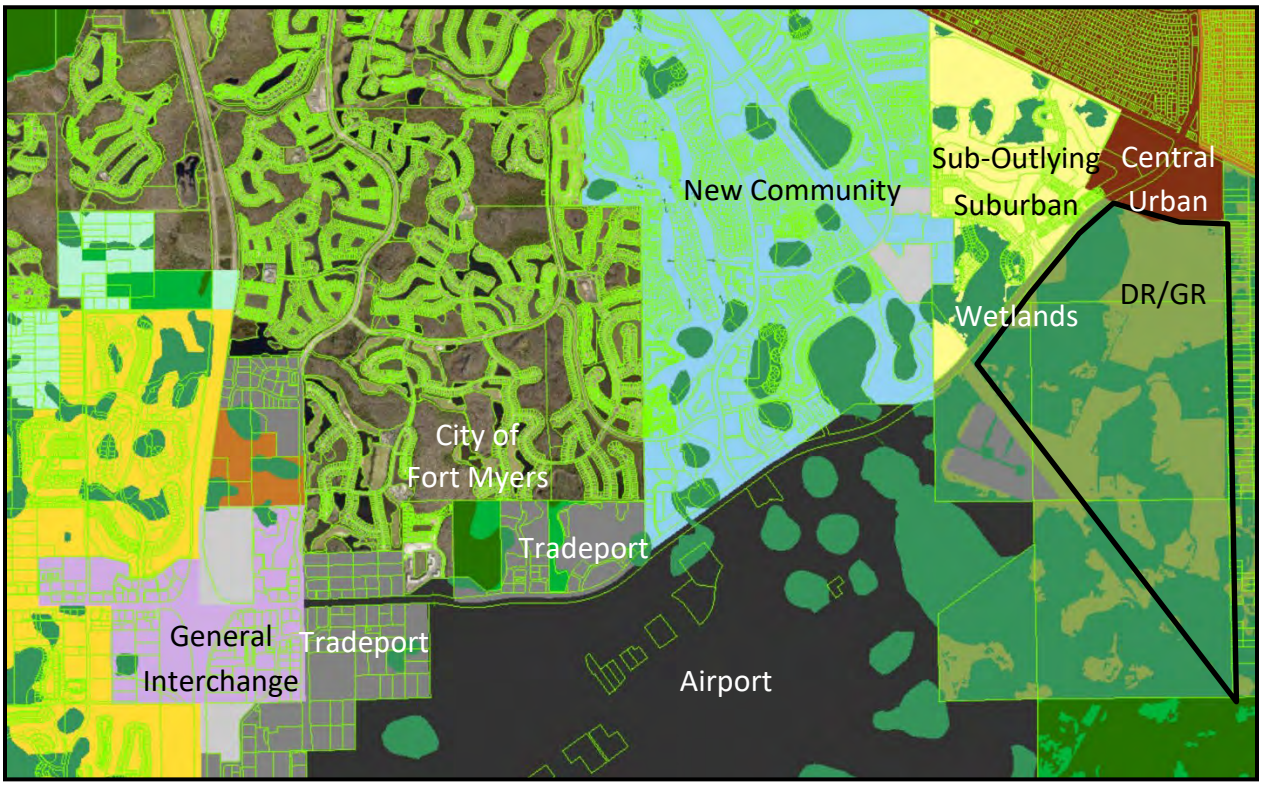

Figure 2. Current FLU Categories Adjacent to Daniels Parkway

Utilizing the proposed text amendment to establish a master planned mixed use enhancement community, the concurrent planned development will cluster the residential density on-site in a pattern that is consistent with the other properties within Urban FLU categories along Daniels Parkway. Additionally, the subject property is within an area of existing urban services as demonstrated by the provided letters of availability, and a map amendment is proposed to include the entire property within the service area for Lee County Utilities to provide central water and sewer service to the proposed development consistent with Standards 4.1.1 and 4.1.2 for potable water and sanitary sewer. Reclaimed water is not currently available in the vicinity, per the Ground and Surface Water report prepared by Progressive Water Resources. Should reclaimed water become available, infrastructure can be extended consistent with Policy 57.1.5. This requested service area expansion will eliminate individual potable water wells and septic systems from being developed on-site and will promote the intent of the DR/GR future land use to protect groundwater resources.

> ***POLICY 2.3.1***: *All proposed changes to the Future Land Use Map in critical areas for future potable water supply (Lehigh Acres as described in Policy 54.1.9; and all land in the Density Reduction/Groundwater Resource land use category) will be subject to a special review by the staff of Lee County. This review will analyze the proposed land uses to determine the short-term and long-term availability of irrigation and domestic water sources, and will assess whether the*

proposed land uses would cause any significant impact on present and future water resources. If the Board of County Commissioners wishes to approve any such changes to the Future Land Use Map, it must make a formal finding that no significant impacts on present or future water resources will result from the change.

POLICY 2.3.2: *Future Land Use Map amendments to the existing DR/GR areas south of SR 82 east of I-75, excluding areas designated by the Port Authority as needed for airport expansion, which increase the current allowable density or intensity of land use will be discouraged by the county. It is Lee County's policy not to approve further urban designations there for the same reasons that supported its 1990 decision to establish this category. In addition to satisfying the requirements in 163 Part II Fla Stat., the Strategic Regional Policy Plan, the State Comprehensive Plan, and all of the criteria in the Lee Plan, applicants seeking such an amendment must:*

1. *analyze the proposed allowable land uses to determine the availability of irrigation and domestic water sources; and,*
2. *identify potential irrigation and domestic water sources, consistent with the Regional Water Supply Plan. Since regional water suppliers cannot obtain permits consistent with the planning time frame of the Lee Plan, water sources do not have to be currently permitted and available, but they must be reasonably capable of being permitted; and,*
3. *present data and analysis that the proposed land uses will not cause any significant harm to present and future public water resources; and,*
4. *supply data and analysis specifically addressing the urban sprawl.*

During the transmittal and adoption process, the Board of County Commissioners must review the application for these analytical requirements and make a finding that the amendment complies with all of them.

The requested amendments do not remove the subject property from the DR/GR FLU which is a category that has been designated "critical for future potable water supply." The subject property is on the northwestern edge of the DR/GR and does not exhibit all of the general characteristics present in the balance of the DR/GR. The property has been disturbed since the late 1940s and continues to be disturbed with agricultural activities, ditches, berms and other alterations that direct and control surface water flow. The subject property has been hydrologically divided into east and west sections due to an existing north/south internal farm road that supports the existing agricultural operations. Additionally, the existing wetlands on-site have been internally bermed, creating artificial partitions and disconnecting sections within the natural system.



Figure 3. 1958 Aerial of Subject Property with Historic Farm Road

As described in the Characterization of Ground and Surface Water Resources report prepared by Progressive Water Resources, the existing on-site features that promote drainage for the agricultural operations reduce water table elevations and subsequently lower recharge potential. These same features can also negatively impact nearby wetlands, promote growth of exotic and nuisance species, and further negatively impact water resources within the greater DR/GR.

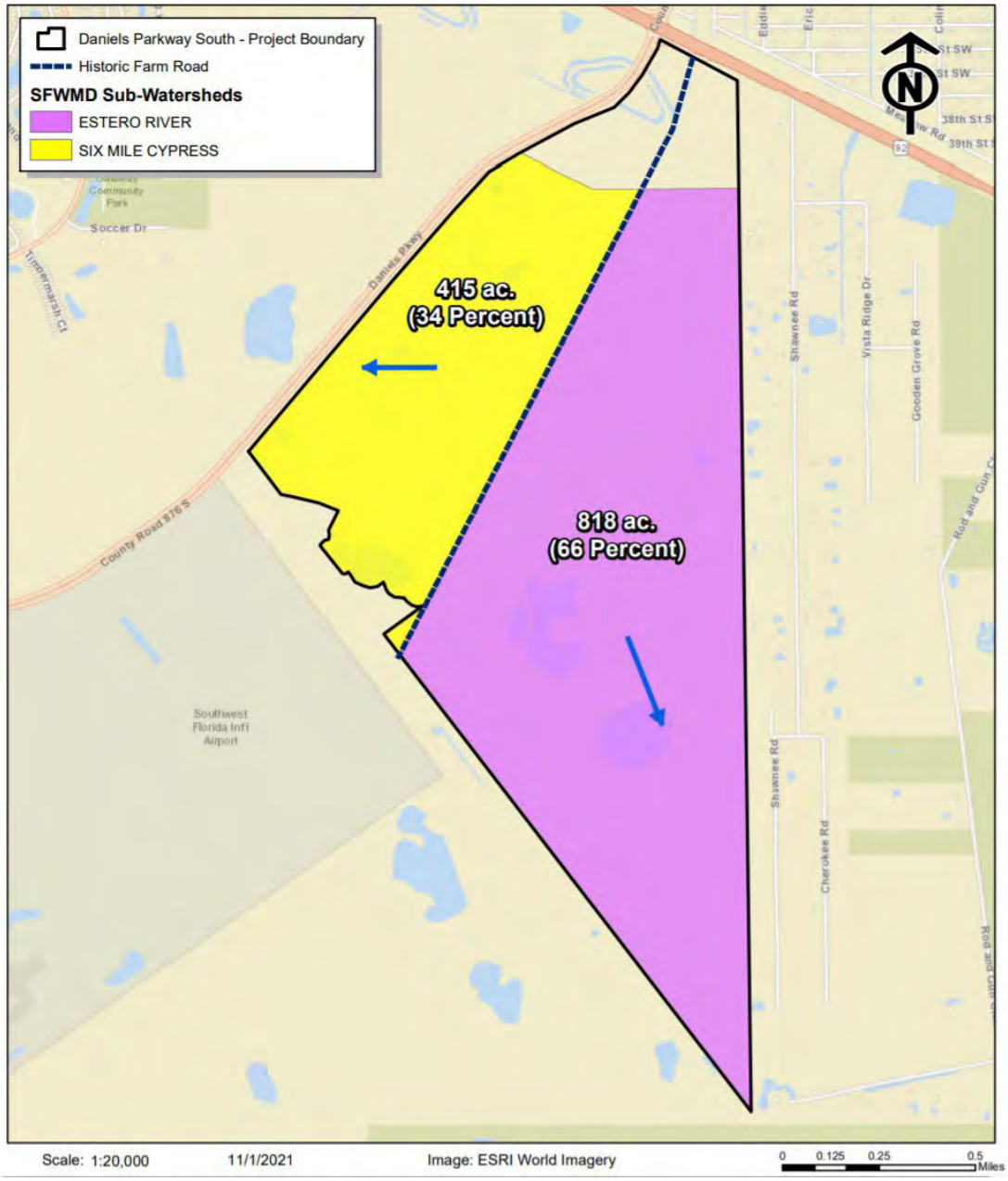

Figure 4. Basin Divide and Subject Property Boundary

The Environmental Assessment provided by Passarella and Associates identifies that the predominate land cover on the property is improved with low pasture areas which occupy 501.4 acres of 40.7% of the subject property. Ditches, berms, and other disturbed lands are 94.29 acres or 7.6% of the property. As a result of these impacts to the natural habitat onsite, the proposed amendments seek to preserve and restore existing wetland and upland habitats to restore flow patterns across the basin divide to generally where they previously existed on-site consistent with Standard 4.1.4.

STANDARD 4.1.4: ENVIRONMENTAL FACTORS

1. *In any case where there exists or there is the probability of environmentally sensitive areas (as identified by Lee County, the Corps of Engineers, Department of Environmental Protection, South Florida Water Management District, or other applicable regulatory agency), the developer/applicant must prepare an environmental assessment that examines the existing conditions, addresses existing or anticipated environmental problems, and proposes means and mechanisms to protect, conserve, or preserve the environmental and natural resources.*
2. *Ensure that land uses and structures are well integrated, properly oriented, and functionally related to the topographic and natural features of the site.*
3. *Ensure development minimizes the need for expansion and construction of street and utility improvements.*

It is important to note that the proposal **will not create** any wetland habitat due to the property's proximity to the Southwest Florida International Airport (SWFIA) and concerns related to wildlife attraction. The 679.10 acres of preservation and restoration proposed includes approximately 295.8 acres of existing indigenous upland and wetland habitat, 383.3 acres of restored upland and wetland habitat and 23.7 acres of backfilling and grading of existing berms and ditches to replant with native vegetation. Approximately 58.1 acres of mature pine flatwoods; which is considered a Rare and Unique upland habitat type are proposed as indigenous upland preservation. As demonstrated by the Indigenous Vegetation Preservation Restoration and Management Plan prepared by Passarella and Associates, the two watershed basins do not currently interconnect via wetland habitat types. Additionally, the creation of additional wetlands cannot occur on the property due to the proximity to the SWFIA and concerned regarding wildlife attractants. As a result, the provided Drainage Report by Morris-Depew Associates and concurrent Master Concept Plan, propose physical infrastructure improvements to the site to interconnect the two watershed basins during periods of high rainfall. While not a natural flowway, the proposed improvements takes into account the unique conditions of the property to achieve the overall objective of interconnecting wetlands and re-establishing historic flow patterns across the property as compared to existing conditions consistent with the DR/GR Future Land Use.

Some impacts are proposed to the existing on-site wetlands as demonstrated by the concurrent Master Concept Plan; however a Jurisdictional Determination has been secured from the South Florida Water Management District to address these impacts.

Mixed Use Development

A concurrent mixed use planned development has been submitted for the entire property. The companion schedule of uses demonstrates residential, commercial and light industrial consistent with Policy 11.1; which encourages all three uses within developments in the Intensive Development FLU. The residential density of the property will be calculated from the entire project area consistent with the map amendment to Intensive Development FLU and the proposed amendment to establish and place the property within the Mixed Use Community Enhancement Overlay. Based on the proposed text amendment and Indigenous Preservation Restoration Management Plan, the property is eligible for a theoretical maximum of 1,859 dwelling units. However, the concurrent planned development will limit the residential density to 1,600 units consistent with Policies 11.1.1 and 11.1.2.

POLICY 11.1.1: *Developments located within the Intensive Development, Central Urban or Urban Community future land use categories that have existing connectivity or can demonstrate that connectivity may be related to adjacent neighborhoods are strongly encouraged to be developed with two or more of the following uses: residential, commercial (including office), and light industrial (including research and development use).*

POLICY 11.1.2: *Residential densities may be calculated from the entire project area when the development is consistent with the following:*

- *At least three uses are proposed and must include residential, commercial (including office) and light industrial (including research and development use).*
- *The development is located in the Intensive Development, Central Urban or Urban Community future land use categories.*

Additionally, the proposed text amendment includes Policy 5.1.10 which further supports the Mixed Use Communities Enhancement Overlay summing of density across the entire property.

POLICY 5.1.10: *In those instances where contiguous land use single ownership is ~~divided~~ in~~to~~ two or more land use categories ~~by the adoption or revision of the Future Land Use Map~~, the allowable density under this Plan will be the sum of the allowable densities for each land use category for each portion of the land. This density can be allocated across the property provided that:*

1. *The planned development zoning is utilized; and*
2. *No density is allocated to lands designated as non-urban or Environmentally Critical that would cause the density to exceed that allowed on such areas unless those lands are within a community described by the Southeast Lee County Overlay in Policy 1.6.10; and*
3. ~~*The land was under single ownership at the time this policy was adopted and is contiguous; in situations where land under single ownership is divided by roadways, railroads, streams (including secondary riprarian systems and streams but excluding primary riparian systems and major flowways such as the Caloosahatchee river and Six Mile Cypress lough), or other similar barriers, the land will be deemed contiguous for purposes of this policy; and*~~
4. *The resultant planned development affords further protection to environmentally sensitive lands if they exist on the property.*

The Master Concept Plan submitted with the companion planned development demonstrates the portion of the property subject to the Intensive Development FLU Map Amendment will support residential, commercial and light industrial uses. The portion of the property subject to the Mixed Use Community Enhancement Overlay will support residential development. The proposed text amendment will enable the density to be allocated in total across the multiple future land use categories across the property to support the requested development. As a result of the proposed uses the development of the subject property will also be consistent with Goals 5 and 6 for Residential and Commercial land uses.

The resulting development will be located in an area with supporting urban services, access to two arterial roadways and provide variety in the type of housing as well as commercial and light industrial uses consistent with Goal 5 Residential and Goal 6 Commercial. The requested 1,600 dwelling units and 350,000 square feet of commercial meet the threshold requirements for the Development of County Impact and require a planned development rezoning. A concurrent mixed use planned development has been submitted with the requested comprehensive plan amendments consistent with Policies 5.1.1 and 6.1.3.

In consideration of the property's location near the Southwest Florida International Airport, the Master Concept Plan demonstrates the proposed development has been clustered away from the airport property in consideration of Policy 5.1.2.

> ***POLICY 5.1.2:*** *Prohibit residential development where physical constraints or hazards exist, or require the density and design to be adjusted accordingly. Such constraints or hazards include but are not limited to flood, storm, or hurricane hazards; unstable soils or geologic conditions; environmental limitation; aircraft noise; or other characteristics that may endanger the residential community.*

The concurrent Planned Development includes a detailed Master Concept Plan that identifies the various land use restrictions related to the Southwest Florida International Airport (SWFIA). These restrictions have been taken into account with the Schedule of Deviations, Property Development Regulations, Schedule of Uses as well as the layout of the development footprint. Of particular note are the Airport Noise Zones and 10,000 foot Wildlife Buffer. Since the initial submittal of the planned development, the proposed area for residential development has been significantly reduced, no residential lots occur in Noise Zone B, and several deviations are requested to promote compatibility with the lake bank slope construction and littoral plantings due to the proximity of the airport. Consistent with the requirements of the Land Development Code, we acknowledge the property's proximity to the SWFIA so a disclosure will be provided on all plats and association documents. Finally, the applicant has drafted and submitted Proposed Conditions as part of the planned development requiring landscape plans at the time of Development Order to reflect 100% native vegetation and compliance with the Lee County Port Authority recommended planting list and outlining additional best management practices to be considered during construction to address site related improvements and residential construction. Given the commitments the applicant has made to continue to work with the Lee County Port Authority, notice future property owners, and inform the County and LCPA of construction standards, the project is consistent with Policy 5.1.2.

Goal 5 requires sufficient land to be provided in appropriate locations on the Future Land Use Map to accommodate the projected population of Lee County. The requested plan amendment and concurrent planned development allow a suburban level of density consistent with the existing surrounding residential developments as well as the provisions of Policy 5.1.1. Additionally, no residential development is proposed within an area which is deemed a hazard or physically constraining – the residences proposed are to be located outside of Airport Noise Zone B consistent with Policies 5.1.2 and 5.1.4.

The portion of the property proposed for Intensive Development will support 350,000 square feet of commercial uses and a multi-family unit type as part of the proposed mixed use planned development. This portion of the property is within the Lehigh Acres community Planning Area and is identified for

intense community supporting commercial uses and has access to all urban services consistent with Policies 6.1.4 and 6.1.7. Locating these proposed uses at the intersection of Daniels Parkway and SR 82 will promote internal capture for the future residences of the proposed development as well as walkable services to the existing and future residential use of the surrounding area including the communities of Gateway, Timber Creek, and Lehigh Acres. Providing commercial uses in a location east of I-75 within Lehigh Acres will reduce vehicular trips heading west past I-75 for goods and services consistent with Policy 6.1.5.

Lehigh Acres Community Plan

The Lehigh Acres Community Plan is outlined by Goal 25 in the Lee Plan; establishing the future vision for the entire community of Lehigh Acres, including 84.5 acres of the subject property as identified on Lee Plan Map 1-A. The amendment to Intensive Development is consistent with the future vision of Lehigh Acres and the property's location within a Specialized Mixed Use Node. The concurrent Mixed Use Planned Development will demonstrate the 350,000 square feet of commercial uses and multi-family residential product to be located within this area further fostering the development of a vibrant commercial area consistent with Goal 25.

> ***GOAL 25:*** *LEHIGH ACRES COMMUNITY PLAN. Ensure that continued development and redevelopment converts this largely single use, antiquated pre-platted area into a vibrant residential and commercial community consisting of: safe and secure single family and multi-family neighborhoods; vibrant commercial and employment centers; pedestrian friendly mixed use activity centers and neighborhood nodes; and, adequate green space and recreational opportunities.*
>
> ***OBJECTIVE 25.1:*** *SPECIALIZED MIXED USE NODES. To create mixed use nodes that contribute the uses needed to support the Lehigh Acres Community Plan area shown on Map 1, Page 7.*
>
> ***POLICY 25.1.2:*** *New development and redevelopment are encouraged to integrate a mixture of at least two or more varied uses, such as retail, office, residential, or public. All developments within the Specialized Mixed Use Nodes must be consistent with Table 1(c).*
>
> ***POLICY 25.1.3:*** *In order to promote a sustainable urban form, these areas are expected to develop at the higher end of the density and intensity ranges, including bonus density.*
>
> ***POLICY 25.1.4:*** *Developments in these areas are encouraged to share required features such as parking, stormwater detention and management areas, open space and other civic areas.*
>
> ***POLICY 25.1.8:*** *Establish comprehensive stormwater management areas within the Specialized Mixed Use Nodes to achieve an efficient use of property.*

The Intensive Development FLU and the Lehigh Acres portion of the property also coincide with the Specialized Mixed Use node that has been designated for the property. The companion Master Concept Plan demonstrates a higher concentration of both density and intensity within the node consistent with Policies 25.1.2 and 25.1.3. The conceptual plan will also demonstrate shared features such as unified parking, stormwater management areas, and open space which is consistent with policies 25.1.4 and

25.1.8. The provision of unified stormwater management is also demonstrated by the provided Drainage Report prepared by Morris-Depew Associates. The Master Drainage Plan included in Appendix 1 of the Drainage Report demonstrates Lakes 1, 2, and 3 within the Lehigh Acres Community Planning Area will be interconnected with the larger system in the Southeast Lee Community Planning Area. The conclusions of the Drainage Report confirm that the proposed project "will attenuate the 25-year, 3-day rainfall event within the proposed onsite water management system and reduce peak runoff discharge rates from the project limits." As a result of reducing the peak runoff rate, downstream properties will receive surface water flow at a slower rate reducing the potential of flood conditions and demonstrating consistency with the DR/GR Future Land Use and the Lehigh Acres Community Planning Area.

The Lehigh Acres Plan further breaks down the mixed use nodes into types. The 84.5 acres of the subject property is within a Community Mixed Use Activity Center demonstrated on Lee Plan Map 2-B and outlined by Objective 25.3 and its supporting policies.

> ***OBJECTIVE 25.3:*** *COMMUNITY MIXED USE ACTIVITY CENTERS. To provide the uses needed to support all of the Lehigh Acres Community Plan area including: residential; public and private education; live-work; retail; office; medical; entertainment; light industrial; commercial/public parking; parks; and, other civic uses.*
>
> ***POLICY 25.3.1:*** *Identify those areas within Lehigh Acres that have sufficient vacant or undeveloped land to accommodate the community-scale development that will balance the land uses and provide opportunities to diversify the economic base of the community.*
>
> ***POLICY 25.3.2:*** *Future developments that provide employment opportunities mixed with facilities offering goods and services that support the wider community are encouraged.*

The area will feature a mixture of commercial uses which are identified in the companion Schedule of Uses which furthers the intent of Objective 25.3. Additionally, the subject area is one of only a handful of large properties in Lehigh Acres with a sole entity for owner; and therefore one of the few areas able to accommodate community-scale development that will diversify the community's economic base consistent with Policies 25.3.1. and 25.3.2.

> ***OBJECTIVE 25.8:*** *TRANSPORTATION, PARKING, AND TRAFFIC CIRCULATION. To improve transportation, parking, and circulation within the Lehigh Acres Community Plan area.*
>
> ***POLICY 25.8.2:*** *All connections to SR 82 must be consistent with the Florida Department of Transportation Corridor Access Management Plan for SR 82.*
>
> ***POLICY 25.8.7:*** *New single-family model homes are prohibited within 300 feet of arterial and collector roads.*

The concurrent planned development demonstrates consistency with the transportation policies of the Lehigh Acres Community Plan outlined by Objective 25.8 and its supporting policies. The Master Concept Plan (MCP) features a concentration of commercial uses at the intersection of SR 82 and Daniels Parkway significantly reducing the need for residents of the surrounding area to travel further west to meet their commercial needs. Connections to SR 82 are consistent with the Corridor Access Management Plan for SR 82 or are noted for future amendment by the BOCC and therefore consistent with Policy

25.8.2. The proposed MCP also demonstrates no single family residential within the Lehigh community ensuring consistency with Policy 25.8.7.

> ***OBJECTIVE 25.9:*** *SEWER AND WATER. Expedite the staged extension of water and sewer systems, connect lots previously served by on-site septic and wells, and discourage additional development that is reliant upon on-site well and septic systems.*
>
> ***POLICY 25.9.2:*** *Direct new development and redevelopment in Lehigh Acres to areas that can be reasonably expected to receive urban services and infrastructure during the planning horizon.*

The 84 acres of the subject property within Lehigh Acres is already within the Lee County Utilities Service Area for central water and sewer service consistent with Objective 25.9 and 25.9.2. The proposed map amendments include a request to extend this service area to the remainder of the property to establish the entire future community on central water and sanitary sewer service.

> ***POLICY 25.10.1:*** *Lee County will encourage on-site preservation of indigenous plant communities and listed species habitat. Any required mitigation will be of similar habitat, and provided, whenever possible, within the Lehigh Acres Community Plan area. Development must also be consistent with Goal 77 and Objective 77.3.*

The portion of the property within Lehigh Acres has been cleared and utilized for agricultural activities. The Protected Species Survey submitted with the concurrent planned development demonstrates the northern portion of the property is disturbed lands, ditches, berms and cow pond. Therefore there are no on-site indigenous plant communities or listed species habitat on-site within the Lehigh Acres Community Planning Area to preserve. However, there are indigenous plant communities and listed species habitat within the Southeast Lee Community Planning Area, of which 55% is proposed to be preserved and restored. The restoration activities proposed will promote flow of surface water while also addressing historical impacts associated with decades of historical agricultural ditching and draining. The Master Concept Plan for the concurrent planned development does commit to providing 10% open space at the time of local development order within the Lehigh Acres Community Planning Area ensuring consistency with Goal 77 and Objective 77.3.

Southeast Lee County Community Planning Area

The remaining 1,148 acres of the subject property are within the Southeast Lee County community planning area as identified on Lee Plan Map 1 Page 2 and described in Goal 33. A text amendment is proposed to this community plan to establish the Mixed Use Communities Enhancement Overlay which will support the residential development and hydrological/ecological restoration proposed for the property.

> ***GOAL 33: SOUTHEAST LEE COUNTY.*** *Protect Southeast Lee County's natural resources through public and private acquisition and restoration efforts. Development incentives will be utilized as a mechanism to preserve, enhance, and protect natural resources, such as regional flow-ways and natural habitat corridors in the development of privately owned land. Allowable land uses will include conservation, agriculture, public facilities, low density or clustered residential, natural resource extraction operations, and private recreation facilities; allowable land uses must be compatible with protecting Southeast Lee County's environment.*

> ***OBJECTIVE 33.1:*** *WATER, HABITAT, AND OTHER NATURAL RESOURCES. Protect and restore natural resources within Southeast Lee County including, but not limited to, surface and groundwater, wetlands, and wildlife habitat.*
>
> ***POLICY 33.1.1:*** *Large-scale ecosystem integrity in Southeast Lee County should be maintained and restored. Protection and/or restoration of land is of even higher value when it connects existing corridors and conservation areas. Restoration is also highly desirable when it can be achieved in conjunction with other uses on privately owned land including agriculture.*

The requested amendments seek to establish an Overlay that promotes a cohesive development plan for the entire property that enhances the intent and vision of both the Lehigh Acres and Southeast Lee community plans. Policy 33.2.X of the Lee Plan is being proposed to allow for increased density within properties contiguous to a Mixed Use Community as identified on Map 2-D. A companion amendment is proposed to Map 2-D to extend the existing Mixed Use Community more than 400 feet across the subject property and identify the area as subject to the Mixed Use Community Enhancement Overlay established by the proposed new policy. Together the proposed new policy and amendment to Map 2-D will ensure the development within the Enhancement Overlay complies with the identified design and application criteria as part of the concurrent planned development application. A total of 1,600 dwelling units are proposed on the entire property per the concurrent planned development. Additional dwelling units are proposed as incentives to be achieved related to the preserved and restored on-site wetlands and uplands. The proposed policy includes additional design criteria to promote the private preservation of native habitat and restoration of historic flow patterns within properties requesting the overlay demonstrating consistency with Goal 33, Objective 33.1 and Policy 33.1.1.

> ***POLICY 33.1.4:*** *Restoration of critical lands in Southeast Lee County is a long-term program that will progress in phases based on available funding, land ownership, and natural resource priority. On individual sites, restoration can be carried out in stages:*
>
> 1. *Initial restoration efforts would include techniques such as filling agricultural ditches and/or established control structures to restore the historic water levels as much as possible without adversely impacting nearby properties.*
> 2. *Future restoration efforts would include the eradication of invasive exotic vegetation and the reestablishment of appropriate native ecosystems based upon the restored hydrology.*

The subject property is not located within the DR/GR Priority Restoration Overlay; however it is the northernmost location of the Southeast Lee County Community Planning Area. The proposed text amendment includes requirements for the planned development which will promote restoration of private property that includes regrading of agricultural ditches and berms, removal of exotic vegetation, interconnection of on-site wetlands across watershed basins, and improvement of groundwater recharge on the subject property consistent with Policy 33.1.4. An Indigenous Preservation and Restoration Management Plan (IPRMP) has been provided by Passarella and Associates outlining the activities to occur and the acreage to be restored. As demonstrated by the FLUCCS included in the IPRMP there are no indigenous habitat or wetland connections across the internal farm road that identifies the watershed basin divide. Due to the property's proximity to the SWFIA the creation of wetland habitat cannot occur to provide a wetland interconnection. As a result, the provided Drainage Report prepared by Morris-Depew Associates and concurrent Master Concept Plan, propose a physical infrastructure improvement to interconnect the two watershed basins during periods of high rainfall. When combined with the

proposed grading and filling of the existing agricultural berms on-site (outlined in the IPRMP) these activities will maintain existing water levels and eliminate exotic vegetation while achieving the objective of interconnecting wetlands, re-establishing historic flow patterns and improving water flow off-site consistent with Policy 33.1.4

> ***POLICY 33.1.7:*** *Impacts of proposed land disturbances on surface and groundwater resources will be analyzed using integrated surface and groundwater models that utilize site-specific data to assess potential adverse impacts on water resources and natural systems within Southeast Lee County. Lee County Division of Natural Resources will determine if the appropriate model or models are being utilized, and assess the design and outputs of the modeling to ensure protection of Lee County's natural resources.*

The applicant acknowledges this policy. A report entitled Characterization of Ground and Surface Water Resources provided by Progressive Water Resources provides an initial overview of the surface and ground water resources in the general area. A Drainage Report prepared by Morris-Depew Associates with Appendix L an Integrated Model Analysis prepared by Progressive Water Resources provides a detail analysis of the surface and groundwater conditions of the existing and proposed development demonstrating no adverse impacts on water resources and natural systems. The provided Drainage Report by Morris-Depew Associates and concurrent Master Concept Plan, propose physical infrastructure improvements to the site to interconnect the two watershed basins during periods of high rainfall.

The proposed master drainage plan as outlined by the Drainage Report, interconnects the proposed surface water management lakes, which have a total surface area of 117 acres. The lakes within the SWFIA 10,000 hazardous wildlife buffer are proposed to have hardened 4:1 shorelines in order to minimize wildlife attractants. These lakes will be interconnected with lakes outside the 10,000-foot hazardous wildlife buffer to provide water quality treatment. The lake elevations within the stormwater management system are designed to match or exceed the existing wet season water elevations (WSWE). As outlined by the Integrated Model Analysis prepared by Progressive Water Resources, the proposed site design demonstrates a beneficial increase in recharge to the underlying Water Table Aquifer, as compared to existing conditions. The additional stormwater management will enhance water resources by providing a net benefit to groundwater recharge consistent with the DR/GR Future Land Use and Policy 33.1.7.

In addition to the developments surface water management system, a 24-inch piped connection is proposed to restore the historic interaction between the 2 on-site watershed basins. This buried connection is specifically designed to eliminate wildlife attractants. On the west side of the property (Six Mile Cypress Watershed) a water control structure, i.e., weir, will be constructed on the upstream side of the 24" buried pipe in order to selectively convey stormwater towards the Estero River Watershed during high rainfall events. High rainfall events, for purposes of this application, are defined as those in excess of a 10-year, 1-day storm. When rainfall events do not exceed this threshold, surface water will remain within the Six Mile Cypress Watershed and will not be conveyed through the buried pipe. Therefore, flows into the Estero River Watershed will only occur when water levels exceed the 10-year, 1-day storm event elevation.

The proposed design accomplishes a several important objectives:

- Sets the control structure weir at an elevation that ensures that surrounding wetland areas do not experience adverse drawdown.

- Addresses varying wet season elevations within the on-site wetlands
- Prevents surface water from discharging into the Six Mile Cypress during low rain fall events.
- Connects the watersheds during high rainfall events to interconnect the on-site wetlands and re-establish historic flow patterns across the property.
- Controls the flow of surface water across the property to ensure that no adverse impacts to adjacent properties occurs.

While not a natural flowway, the proposed improvements takes into account the unique conditions of the property necessary to achieve the overall objective of interconnecting wetlands, re-establishing historic flow patterns, while ensuring that no adverse impacts to adjacent properties will occur, as compared to existing conditions consistent with the DR/GR Future Land Use and Policy 33.1.7.

> ***POLICY 33.2.1:*** *Existing acreage subdivisions are shown on Map 2-D. These subdivisions should be protected from adverse external impacts.*

The Enhanced Lake Management Plan prepared by Progressive Water Resources demonstrates that the proposed development will position the proposed Sandstone Aquifer irrigation wells to prevent adverse impacts to the existing residential wells to the north. The nearest irrigation well is approximately 3,000 feet (0.6 miles) from Lehigh Acres. Additionally, the irrigation system is proposed to combine the use of surface and groundwater sources to reduce overall reliance on groundwater supplies, consistent with Policy 33.2.1 and eliminating the need for a Sandstone Aquifer monitoring well. It is expected that a Water Use Permit (WUP) will be requested from the South Florida Water Management District (SFWMD) meeting the criteria of Chapter 373.223(1) Florida Statutes. This section of Statute establishes that WUP applicants must demonstrate any requested use of water is reasonable and beneficial and will not interfere with any existing legal use of water and is consistent with the public interest. Therefore, adverse interference to existing Sandstone Aquifer users will not be authorized.

[NOTE: Below, in Objective 33.2 and associated policies, the underlined text represents proposed additions, and ~~cross-hatched~~ text represents proposed deletions.]

> ***Objective 33.2: RESIDENTIAL AND MIXED-USE DEVELOPMENT.*** *Designate on a Future Land Use Map overlay areas that should be protected from adverse impacts of mining (Existing Acreage Subdivisions), specific locations for concentrating existing development rights on large tracts (Mixed-Use Communities), specific properties which provide opportunities to protect, preserve, and restore strategic regional hydrological and wildlife connections (Environmental Enhancement and Preservation Communities), specific properties that preserve and restore hydrological connections and wildlife habitat and concentrate development rights on large tracts (Mixed Use Communities Enhancement Overlay), and vacant properties with existing residential approvals that are inconsistent with the Density Reduction/Groundwater Resources future land use category (Improved Residential Communities).*
>
> ***POLICY 33.2.2:*** *Map 2-D identifies future locations for Mixed-Use Communities where development rights can be concentrated from large Southeast Lee County tracts into Traditional Neighborhood Developments or other clustered development patterns. The preferred pattern for residential development is to cluster density within Mixed-Use Communities with access to ~~along~~ existing roads ~~and away from Future Limerock Mining areas~~.*

1. *Southeast Lee County Mixed-Use Communities must be concentrated from contiguous property owned under single ownership or control. Residential density is calculated from the upland and wetland acreage of the entire contiguous Southeast Lee County property. Increases in residential densities may be approved through:*
   a. a planned development per Policy 33.2.X
   b. incentives as specified in the LDC for permanent protection of indigenous native uplands on the contiguous tract (up to one extra dwelling unit allowed for each five acres of preserved or restored indigenous native uplands) and
   c. through the acquisition of TDUs from TDR sending areas within Southeast Lee County as provided in Objective 33.3.
      i. The maximum gross density, is 5 dwelling units per acre of total land designated as a Mixed Use Community when TDUs are used.
      ii. Properties that concentrate development rights and/or use TDUs created from Southeast Lee County within the Mixed-Use Communities identified on Map 17 will be allowed to develop using permitted uses and the property development regulations for the C-2A zoning district.
2. *Contiguous property under the same ownership may be developed as part of a Mixed- Use Community provided it does not extend more than 400 feet beyond the perimeter of the Mixed Use Community as designated on Map 2-D. In a Mixed Use Enhancement Community Overlay developed as a planned development consistent with Policy 33.2.X, all contiguous property under the same ownership and control at the time of application may be included.*
3. *Central water and wastewater services are required to develop a Mixed-Use Community.*
4. *Commercial uses developed as part of a Mixed-Use Community will be consistent with Policy 33.3.5 and will not exceed the allowable total square footage for commercial uses in Southeast Lee County*

The proposed text amendment establishes a Mixed Used Communities Enhancement Overlay in Objective 33.2 and Policy 33.2.2. The Enhancement Overlay is proposed to permit increased density on properties contiguous to a Mixed Use Community as identified on Map 2-D of the Lee Plan within a development area that extends farther than 400 feet from the existing Mixed Use Community. Due to the extension proposed, a new policy (copied in full below) is established to outline the restoration and design objectives that must be met by the planned development application submitted to implement the proposed Mixed Use Communities Enhancement Overlay.

POLICY 33.2.X: *Contiguous property under single ownership or control at the time of planned development application may be developed as a Mixed Use Enhancement Community provided it is immediately adjacent to a Mixed Use Community on Map 2-D and to an Urban Future Land Use Category and proposes to preserve, and restore surface and groundwater resources and indigenous wildlife habitats on such contiguous property. As an incentive to cluster development and to preserve and restore surface and groundwater resources along with wildlife habitat for state and federally listed species, additional densities may be granted if:*

1. *A portion of the property is within the "Mixed Use Enhancement Community" as designated on Map 2-D of the Plan and consistent with the criteria below:*
   a) Located adjacent to a Mixed Use Community and Urban Future Land Use Category with direct access to an arterial road.

b) Proposes to preserve and restore surface and groundwater resources and indigenous wildlife habitats; and

c) Develops as a planned development.

2. *The planned development requires the following:*

a) The Mixed Use Community and adjacent property under unified ownership or control are included in the planned development application.

b) The Master Concept Plan must demonstrate:

i. Clustered development pattern proximate to the Mixed Use Community and adjacent arterial roadways that maintains large contiguous tracts of open space and protects environmentally sensitive areas;

ii. Preservation or restoration of existing wetland and upland habitat which will be used to:

1. *Restore hydrological connectivity or flow-ways where they are currently or previously existed; or*
2. *Sustain and help restore existing and historic groundwater levels; or*
3. *Preserve, enhance and restore indigenous Rare and Unique Upland habitats.*

iii. Indigenous Preservation Areas that:

1. *Are a minimum of 55% of the planned development.*
2. *Have an Indigenous Preservation, Restoration and Management Plan addressing:*
   - *a. Preliminary restoration plans, demonstrating minimum dimensions required for indigenous open space area set forth in the LDC;*
   - *b. Methods for exotic and nuisance plant removal;*
   - *c. Wetland hydrological reconnections;*
   - *d. Lands identified for the restoration/creation of Rare and Unique Upland habitat containing the soil(s) needed to support the establishment and success of the indigenous Rare and Unique upland habitats;*
   - *e. Replanting plans;*
   - *f. Management plans with success criteria, monitoring and maintenance for 5 consecutive years; and*
   - *g. Protected species, Airport Wildlife Management, and human-wildlife coexistence plans.*
3. *Will be platted in separate tracts and dedicated to an appropriate maintenance entity. Prior to the Certificate of Compliance (CC) for the first development order, a Community Development District or master property owners association must be created and accept responsibility for perpetually maintaining preservation areas larger than 300 acres.*
4. *Be placed under conservation easement dedicated to a maintenance entity that provides Lee County (or another public entity acceptable to Lee County) with third party*

enforcement rights. Conservation easements must be recorded within 5 years of first development order approval.

c) An enhanced lake management plan including:

i. Best management practices for fertilizers and pesticides;

ii. Erosion control and bank stabilization practices; and

iii. Lake maintenance requirements.

d) A water quality monitoring plan demonstrating that stormwater leaving the development meets state and federal water quality standards.

e) Agricultural irrigation and fertilizers (or other agricultural chemicals) for agricultural purposes must cease at the time of the first development order approvals.

f) Protection of public wells by demonstrating compliance with the Wellfield Protection Ordinance.

g) Florida Friendly Plantings and/or Lee County Port Authority (LCPA) Compatible Plantings with low irrigation requirements in common elements will be encouraged.

h) Written verification of adequate public services for the planned development from the sheriff, EMS, fire district and Lee County School District.

3. As a result of supporting a Mixed Use Community, the recreation of historic flow paths and preservation of natural habitat, and restoration or creation of Rare and Unique uplands, additional incentive density equivalent to 1 dwelling unit per acre of preserved or restored wetland or upland habitat may be approved through planned developments meeting the criteria above.

1. Additional incentive density will be based upon the acreage of the preserved or restored wetland or upland habitat (i.e. all areas within the boundary of the planned development whether uplands or wetlands.)

2. Density from the contiguous Mixed Use Community and Urban Future Land Use Category may be transferred into the area of the Mixed Use Enhancement Community.

The proposed policy identifies specific locations which can request additional development beyond 400 feet of an existing Mixed Use Community Boundary on Map 2-D where;

1. A portion of the property is within an existing Mixed Use Community identified on Map 2-D;
2. A portion of the property is within an Urban Future Land Use Category;
3. The property has direct access to an arterial roadway; and
4. The concurrent planned development preserves and restores surface and groundwater resources and indigenous wildlife habitats.

The proposed policy also promotes a clustered development pattern for the additional units resulting from the preservation and restoration of existing on-site wetlands and uplands to promote flow paths of surface water in historical locations across the subject property. Due to development of the property for agricultural purposes in the late 1940s, the property has been hydrologically divided into east and west sections by a north/south internal farm road. Additionally, the existing on-site wetlands have internal berms creating artificially partitioned, disconnected sections within the natural system. These existing conditions are proposed to be regraded, and exotics removed, to restore native habitats and historical flow

paths, and improve groundwater recharge from existing conditions. In recognition of the competing concerns related to wildlife attraction to the airport area, the proposed restoration of the property does not include the creation of wetland or upland habitats – only replacement of exotics with "like-for-like" native vegetation to restore the areas that have been historically adversely impacted by the construction of berms, exotic infestation, and adjacent agricultural activities.

Transportation

A full transportation analysis has been prepared by TR Transportation and is attached to the supporting documentation for this application. This analysis included long term (20 year horizon) and short term (5 year horizon) impacts of the proposed development.

> ***OBJECTIVE 37.1: GENERAL STANDARDS.*** *Monitor non-regulatory LOS standards outlined in Policy 95.1.3. on county and state transportation facilities within Lee County. Cooperate with municipalities on the facilities maintained by Lee County within the municipalities and with FDOT on state transportation facilities.*
>
> ***POLICY 37.1.1:*** *Lee County will develop multi-modal service volumes (capacities) based on local Lee County conditions for determination of the LOS of transportation facilities.*

The analysis provided by TR Transportation demonstrates that SR 82 and Daniels Parkway will not fall below the recommended minimum acceptable Level of Service thresholds and therefore is consistent with Objective 37.1 and Policy 37.1.1.

> ***OBJECTIVE 39.2: TRANSPORTATION AND LAND USE PLANNING.*** *Develop and maintain transportation planning tools and strategies to coordinate land use development with planned transportation facilities appropriate to future urban areas, future suburban areas, or future non-urban areas as defined. Include road designs and street modifications to accommodate significant truck traffic on freight corridors identified in the MPO Freight Mobility Study and for transit, bicycle and pedestrian facilities where indicated on the transportation map series and Map 4-E, Lee County Greenways Master Plan.*
>
> ***POLICY 39.2.1:*** *Future urban areas will have a balanced emphasis on automobile, freight, transit, pedestrian, and bicycle modes of transportation by:*
>
> - *Promoting safe and convenient street, bicycle and pedestrian facilities connectivity for easy access between modes.*
> - *Utilizing short block lengths within urban Mixed Use Overlay areas.*
> - *Providing transit service within an emphasis on urban Mixed Use Overlay areas.*
> - *Incentivizing infill and redevelopment, mixed uses, pedestrian friendly design, and higher density in areas served by transit.*
> - *Providing sidewalks along all roads and streets in urban areas, except where prohibited.*
>
> ***POLICY 39.2.3:*** *Future non-urban areas are planned primarily for motor vehicle transportation by:*

- *Limiting transit service and provision of separate pedestrian facilities in the Mixed Use Overlay areas unless otherwise stated in the LDC.*
- *Accommodating bicycle usage on bicycle lanes, paved shoulder or multi-use recreational trail facilities.*

The subject property is within a Future Urban and a Future non-urban location at the intersection of two major arterial roadways in Lee County, Daniels Parkway and State Road 82. The traffic analysis provided by TR Transportation demonstrates adequate capacity to serve the proposed development. Sidewalks are provided along the SR 82 frontage and will be provided consistent with LDC Chapter 10 along Daniels Parkway during construction of the residential development. The concurrent planned development will demonstrate internal roadway cross sections consistent with LDC Chapter 10 with pedestrian facilities internal to the proposed development for connectivity across the 1,233 acre property. The future proposed development will be consistent with Objective 39.2 and Policies 39.2.1 and 39.2.3

> ***POLICY 39.2.5:*** *Establish connection separation standards in the LDC based on functional classification and future urban, suburban, or non-urban area designation. Designate by Board action, certain roadways as "controlled access," to which permanent access points are restricted to locations established and set by a specific access plan adopted by Board resolution.*

The subject property fronts on SR 82 (which is a controlled access facility) and Daniels Parkway. The concurrent planned development will demonstrate access to the proposed subdivision consistent with the appropriate locations for each roadway and Policy 39.2.5.

> ***OBJECTIVE 47.2:*** *DEVELOPMENT COMPATIBILITY IN VICINITY OF AIRPORTS. Evaluate development proposals for property located within the vicinity of existing or planned aviation facilities to ensure land use compatibility, to preclude hazards to aircraft operations, and to protect airport capacities and facilities.*
>
> ***POLICY 47.2.1:*** *Land use compatibility will be considered when reviewing development proposals within the vicinity of existing or planned aviation facilities.*
>
> ***POLICY 47.2.3:*** *Utilize the currently adopted Airport Master Plans, rules of Chapter 333, F.S., and the Southwest Florida International Airport FAR Part 150 Study, including updates, as a basis to amend the Lee Plan and the Land Development Code to prohibit development that is incompatible with the Southwest Florida International Airport or Page Field Airport; and, to ensure future economic enhancement consistent with Objective 47.1.*
>
> ***POLICY 47.2.5:*** *The safety of aircraft operators, aircraft passengers, and persons on the ground will guide the Port Authority's airports operations. Hazardous wildlife attractants within 10,000 feet of a Port Authority airport's Air Operations Area (AOA) will be avoided by minimizing and correcting any wildlife hazards arising from wetlands or water bodies in accordance with FAA AC 150/5200-33B, or as otherwise amended. Site improvements on or near the Port Authority's airports must be designed to minimize attractiveness to wildlife of natural areas and man-made features such as detention/retention ponds, landscaping, and wetlands, which can provide wildlife with ideal locations for feeding, loafing, reproduction and escape.*

The subject property is proximate to the Southwest Florida International Airport. As a result, the proposed text amendment does not include the establishment of new habitat. Existing on-site wetlands and uplands are proposed to be preserved, as required, and restored in their current locations in ways that will minimize attractiveness to increased wildlife activity. The concurrent planned development includes design deviations to minimize opportunities for additional wading birds or other wildlife hazardous to airport activities to be attracted to the property. Lake bank slopes are proposed to be hardened and associated deviations are requested. Wetland restoration is not increased within the 10,000 foot wildlife buffer and the Indigenous Preservation Restoration Management Plan demonstrates a like for like restoration to maintain existing habitat types. Plantings within the buffer are proposed to be consistent with the Lee County Port Authority compatible plant list. Finally, hydrologic restoration of the on-site wetlands is not anticipated to increase wetland hydroperiods but will remove the existing berms and ditched to create an interconnected system.

As part of the concurrent planned development, the Master Concept Plan demonstrates a design that takes into account the noise zones on the subject property and does not propose residential uses in prohibited zones. Proposed conditions have been submitted demonstrating requirements for bear proof trash containers, below ground commercial grease traps, a wildlife monitoring plan with observation timeframes required at the time of Development Order and the applicant has been in continued coordination with the Lee County port Authority regarding construction-related best management practices to address dewatering and other site related construction activities. Collectively the proposed text amendment and site design will demonstrate consistency with Objective 47.2 and Policies 47.2.1, 47.2.3 and 47.2.5.

Surface Water Management

The subject property will have a centralized surface water management system that takes into account the existing natural features. Restoration of these features is proposed as part of the Indigenous Preservation and Restoration Management Plan and Drainage Plan to promote interconnectivity and address the impacts of on-going agricultural activities on-site.

> ***GOAL 60:*** *COORDINATED SURFACE WATER MANAGEMENT AND LAND USE PLANNING ON A WATERSHED BASIS. To protect or improve the quality of receiving waters and surrounding natural areas and the functions of natural groundwater aquifer recharge areas while also providing flood protection for existing and future development.*
>
> ***POLICY 60.1.1:*** *Require design of surface water management systems to protect or enhance the groundwater.*
>
> ***POLICY 60.1.2:*** *Incorporate, utilize, and where practicable restore natural surface water flowways and associated habitats.*
>
> ***POLICY 60.1.3:*** *Examine steps necessary to restore principal flow-way systems to assure the continued environmental function, value, and use of natural surface water flow-ways and associated wetland systems.*

The subject property has been cleared and improved in support of agricultural activities since the late 1940s. The existing north/south agricultural road establishes a surface water divide on the subject property

and is recognized as a basin divide between the Six Mile Cypress Sub-Watershed and Estero River Sub-Watershed. The area east of the basin divide is hydrologically separated from lands to the west and is orphaned from the balance of the DR/GR. Natural flows from the west also appear constrained from Daniels Parkway as outlined in the Characterization of Ground and Surface Water Resources provided by Progressive Water Resources.

Lee County's Historic Flowways Map indicates historic flow-way connections existing internal to the property and therefore a hydrological connection between the subject property and the balance of the DR/GR. The proposed text amendment requires a clustered development plan and the restoration of historic flow paths identified on the historic flowway map. However, the subject property is in close proximity to the SWFIA and creation of additional wetland habitat cannot be accommodated due to the wildlife attractants that would be created. To interconnect the two watershed basins across the existing agricultural road as identified on the historic flowway map, an underground physical infrastructure improvement is proposed. As outlined by the Drainage Report prepared by Morris-Depew Associates, 24-inch buried piped connection is proposed to interconnect the 2 on-site watershed basins and associated wetlands. While not a natural flowway, the proposed improvements take into account the unique conditions of the property to achieve the overall objective of interconnecting wetlands, re-establishing historic flow patterns across the property and ensuring no adverse impacts to adjacent properties will occur, as compared to existing conditions consistent with Objective 60.1 and Policies 60.1.1, 60.1.2 and 60.1.3.

> ***OBJECTIVE 60.3:*** *CRITICAL AREAS. The Six Mile Cypress Basin (as defined in Chapter 10 of the Land Development Code) and the Density Reduction/Groundwater Resource land use category are both identified as "critical areas for surface water management." The county will maintain existing regulations to protect the unique environmental and water resource values of these areas.*

The Characterization of Ground and Surface Water Resources and Draft Enhanced Lake Management Plan prepared by Progressive Water Resources includes an outline of Water Quality Management Practices. A surface water quality monitoring program is proposed to ensure that surface water entering and exiting the proposed development meets all SFWMD ERP guidelines as well as all applicable requirements of Chapter 62-302, FAC. The program includes a single set of background samples after the completion of the surface water management lakes, 3 sampling events during the wet season, and continuous monitoring for 5 years. Monitoring is proposed to be discontinued after 5 years if surface water quality is demonstrated as being consistent with State standards. An annual report summarizing all monitoring activity will be provided by March 1 of each year. The proposed conditions included in the concurrent planned development outline the timing of the sampling, the parameters to be tested during sampling and the requirement for continuous monitoring for 5 years. Additionally all data will be provided to Lee County Division of Natural Resources in electronic format for utilization in larger countywide studies. Additional coordination is expected through the review of the requested comprehensive plan amendments and planned development applications to ensure the project's consistency with Objective 60.3.

> ***GOAL 61:*** *PROTECTION OF WATER RESOURCES. To protect the county's water resources through the application of innovative and sound methods of surface water management and by ensuring that the public and private construction, operation, and maintenance of surface water management systems are consistent with the need to protect receiving waters.*

> ***POLICY 61.1.6:*** *When and where available, reuse water should be the first option for meeting irrigation needs of a development. Where reuse water is not available, surface water or low quality groundwater should be utilized for irrigation. All other potential water sources must be eliminated prior to selecting potable water as the sole source for meeting the irrigation needs of a development. New developments will coordinate with county staff regarding the source of irrigation water.*

As described by the Characterization of Ground and Surface Water Resources Report prepared by Progressive Water Resources, reclaimed water lines are not available in proximity of the subject property. Therefore, a mix of surface water from the on-site management system and supplies from the confined Sandstone Aquifer are proposed to be utilized consistent with Objective 61 and Policy 61.16. Additionally, the Draft Enhancement Lake Monitoring Plan prepared by Progressive Water Resources outlines a proposed Water Quality Monitoring program to ensure that surface water entering and leaving the subject property meet State standards and protect receiving waters consistent with Goal 61.

Environmental

As demonstrated by the supporting information prepared by Passarella and Associates, the proposed amendment is consistent with and furthers Conservation Goals, Objectives and Policies. The property supports an active agricultural operation and has had an elevated north/south historic farm road since at least 1958. This site condition has created a hydrological divide on the property creating east and west sections. Additionally, the on-site wetlands have berms and ditches creating artificial partitions and disconnecting sections within the natural system.

The Environmental Assessment provided by Passarella and Associates identifies the predominate land cover, approximately 40.7%, is improved and low pasture. Ditches, berms and other disturbed lands are approximately 7.6% of the property. Collectively, these areas amount to approximately half of the property and have resulted in impacts to the natural habitat on-site.

The requested amendments seek to preserve and restore existing wetland and upland habitats to provide flow patterns across the existing basin divide in locations generally consistent with historical patterns mapped by Lee County.

> ***GOAL 123:*** *RESOURCE PROTECTION. Manage coastal, wetland and upland ecosystems and natural resources in order to maintain and enhance native habitats, floral and faunal species diversity, water quality, and natural surface water characteristics.*
>
> ***POLICY 123.1.1:*** *Maintain standards for development, mitigation and conservation that will protect and integrate wetlands and Rare and Unique upland habitats as defined in this plan.*
>
> ***POLICY 123.1.5:*** *Encourage private restoration of natural habitats to support connectivity between public and private conservation and preservation efforts.*
>
> ***POLICY 123.1.7:*** *Coordinate the location of area wide conservation easements to maximize the protection of natural resources.*

POLICY 123.2.6: *Avoid destruction of upland vegetation communities including coastal and interior hammocks through consideration of alternative site design layouts.*

POLICY 123.2.10: *Require that development adjacent to aquatic and other nature preserves, wildlife refuges, and recreation areas be designed to protect the natural character and public involvement in these areas.*

POLICY 123.2.15: *Protect Rare and Unique upland habitats from development impacts, to the maximum extent possible, through conservation and/or site design.*

The property is in an area of Lee County where policy priorities have been established by the Board of County Commissioners for the preservation of regional flowways and habitat. This policy direction is a long standing priority for the County and can be seen through numerous mitigation lands and conservation purchases as well as private restoration and preservation that have occurred within the Southeast Lee County Community Planning Area over the years. The Property is proximate to the Wild Turkey Strand Preserve; although not interconnected. The property's southern boundary is triangular in shape and ceases north of an existing FPL easement. Wild Turkey Strand Preserve is most of Sections 28 and 27 south/southwest of the FPL Easement. The property between the FPL easement and Wild Turkey Strand Preserve limits is held in private ownership. In recognition of this proximity and the privately held lands south of the FPL easement adjacent to Wild Turkey Strand, the southern portion of the Property is proposed for Indigenous preservation and restoration consistent with policy 123.2.10. As previously mentioned due to the proximity to the SWFIA, wetland enhancement and increased restoration is not proposed but like for like restoration activities are planned. Indigenous uplands, including Rare and Unique Uplands, surrounding the wetlands are also proposed for preservation and restoration. Approximately 58.1 acres of mature pine flatwoods, which is considered a Rare and Unique Upland habitat, are preserved by the proposed site plan in the concurrent mixed use planned development. The proposed preservation and restoration efforts are outlined in detail within the Indigenous Preservation and Restoration Management Plan prepared by Passarella and Associates which demonstrates consistency within Goal 123. Additionally, the proposed text amendment requires a conservation easement to be executed for the indigenous preservation and restoration areas; which will include 55% of the overall development as demonstrated by the concurrent Master Concept Plan. With future efforts, connectivity between the subject property's indigenous areas/conservation easements and Wild Turkey Strand Preserve may be possible consistent with policy 123.1.5.

POLICY 77.3.6: *Coordinate trails and greenway planning and construction efforts with private landowners to identify, protect develop and manage linear open space connectors for recreation and conservation greenway corridors and encourage private landowners to dedicate greenway facilities for public recreational use through incentives and impact fee credits.*

POLICY 77.3.7: *New development and redevelopment in areas containing a component of the greenways trail system, as identified by the Lee County Greenways Master Plan, must incorporate the greenway trail into their development design. In addition to counting towards the project's, general open space requirements, development constructing the onsite portions of the greenway trail will be eligible for community and regional park impact fee credit.*

As described above the subject property does not have an interconnection with Wild Turkey Strand. An existing greenway connector currently exists along Daniels Parkway, Captiva-Hendry Trail. The applicant

intends to pay a fee-in-lieu if additional improvements are needed at the time of Development Order. As explained within the concurrent planned development, the existing sidewalk infrastructure on Daniels Parkway was constructed with the initial Capital Improvement Project and the public cross-section does not have adequate width to provide additional infrastructure.

> ***OBJECTIVE 123.3:*** *WILDLIFE. Maintain and enhance the fish and wildlife diversity and distribution within Lee County for the benefit of a balanced ecological system.*
>
> ***POLICY 123.3.1:*** *Encourage upland preservation in and around preserved wetlands to provide habitat diversity, enhance edge effect, and promote wildlife conservation.*
>
> ***POLICY 123.3.3:*** *Protect wildlife from impacts of new non-agricultural development in non-urban areas through the creation and implementation of a human-wildlife coexistence plan for each new development requiring a development order.*
>
> ***OBJECTIVE 123.4:*** *ENDANGERED AND THREATENED SPECIES IN GENERAL. Protect habitats of endangered and threatened species and species of special concern in order to maintain or enhance existing population numbers and distributions of listed species.*
>
> ***POLICY 123.12.2:*** *Encourage use of bear proof containers to secure waste and other attractants within and adjacent to know bear habitats.*

The proposed Text Amendment to establish the Mixed Use Communities Enhancement Overlay seeks to preserve and restore existing native habitats on-site to promote natural surface water characteristics and general flow patterns that existed on-site historically consistent with Goal 123. Consistent with Objective 123.4 the concurrent planned development will demonstrate that restoration is proposed for wetland and upland communities consistent with Policy 123.3.1. Such preservation and restoration will accommodate existing wildlife that inhabits the property in ways that acknowledge the property's proximity to Southwest Florida International Airport and minimize attractiveness of the preserved areas to wildlife consistent with Policy 47.2.5. As part of the Indigenous Preservation & Restoration Management Plan, a Human-Wildlife Co-existence Plan has been provided consistent with Policy 123.3.3. The Proposed Conditions provided as part of the concurrent planned development demonstrate that it is expected this plan will be updated at the time of Development Order. The Proposed Conditions also demonstrate the bear proof trash container for the residential development and below ground grease traps for the commercial development are required to promote consistency with Policy 123.12.2.

The Environmental Assessment prepared by Passarella and Associates indicates that approximately 532 acres of the subject property are considered wetlands. However, the proposal **will not create additional** wetland habitat. Due to proximity to Southwest Florida International Airport, restoration activities are only proposed within existing upland and wetland habitats. This restoration will improve hydrogeological connectivity across the property compared to existing conditions. A Jurisdictional Determination has been secured from the South Florida Water Management District to memorialize the location of on-site wetlands and address any impacts proposed by the concurrent planned development.

> ***GOAL 124:*** *WETLANDS. To maintain and enforce a regulatory program for development in wetlands that is cost-effective, complements federal and state permitting processes, and protects the fragile ecological characteristics of wetland systems.*
>
> ***POLICY 124.1.1:*** *Ensure that development in wetlands is limited to very low density residential uses and uses of a recreational, open space, or conservation nature that are compatible with wetland functions. The maximum density in the Wetlands category is one unit per 20 acres, except that one single family residence will be permitted on lots meeting the standards in Chapter XIII, and except that owners of wetlands adjacent to Intensive Development, General Interchange, Central Urban, Urban Community, Suburban, New Community and Outlying Suburban areas may transfer densities to developable contiguous uplands under common ownership in accordance with Footnote 8b of Table 1(a), Summary of Residential Densities.*

The concurrent planned development will demonstrate that wetland impacts are proposed to support a residential subdivision with a maximum of 1,600 dwelling units and accessory uses. Across the 1,233 acre property, the requested 1,600 units establishes a density of approximately 1.3 dwelling units/acre – a low density with recreational amenities proposed to support the community consistent with Policy 124.1.1.

> ***GOAL 125: Water Quality.*** *To ensure that water quality is maintained or improved for the protection of the environment and people of Lee County.*
>
> ***POLICY 125.1.2:*** *New development and additions to existing development must not degrade surface and groundwater quality.*
>
> ***POLICY 125.1.3:*** *The design, construction, and maintenance of artificial drainage systems must provide for retention or detention areas and vegetated swale systems that minimize nutrient loading and pollution of freshwater estuarine systems.*

The proposed development will eliminate the existing drainage ditches and berms associated with the historic agricultural operations on-site to restore and enhance the existing on-site water resource conditions. As previously discussed the Draft Enhanced Lake Management Plan prepared by Progressive Water Resources includes a Water Quality Monitoring program to ensure surface water entering and exiting the subject property meets State standards. Through the issuance of the required Environmental Resource Permit by the SFWMD, reasonable assurances are provided to the County that surface and groundwater resources will be protected and maintained. Additionally, the Proposed Conditions submitted with the concurrent planned development outline the monitoring schedule and parameters to be tested. The proposed Drainage Report prepared by Morris-Depew Associates demonstrates a unified stormwater management system which will "attenuate the 25-year, 3-day rainfall event within the proposed onsite water management system and reduce peak runoff discharge rates from the project limits." The stormwater management system is required to be designed based on the SFWMD Environmental Resource Permit program and consistent with the criteria of Part IV of Chapter 373, Florida Statutes. Through the issuance of the ERP, the proposed development will maintain water quality for surface and groundwater that will meet and potential exceed State and Federal Standards.

The proposed design included in the Master Drainage Plan (Appendix A) demonstrates the integrated water management lakes will have a total surface area of 117 acres. Due to the project's proximity to the

SWFIA and inclusion within the 10,000-foot hazardous wildlife buffer, some lake banks are proposed to be hardened with no littoral plantings to minimize wildlife attractants. These lakes will be interconnected with the lakes outside the 10,000-foot hazardous wildlife buffer to ensure water quality treatment is provided prior to discharge off-site. As demonstrated by the Drainage Report, Master Concept Plan, Proposed Conditions, and through the subsequent development order, the proposed development will be consistent with Policies 125.1.2 and 125.1.3.

> ***POLICY 126.1.1:*** *Natural water system features which are essential for retention, detention, purification, runoff, recharge and maintenance of stream flows and groundwater levels shall be identified, protected and managed.*
>
> ***POLICY 126.1.4:*** *Development designs must provide for maintaining or improving surface water flows, groundwater levels and lake levels at or above existing conditions.*

The subject property has 532 acres of wetlands of which 520.9 acres are proposed to be preserved and restored. Completion of the activities outlined in the Indigenous Preservation and Restoration Management Plan will improve the wetland's ability to retain stormwater through the elimination of the existing agricultural ditches; which internally impounds the wetlands. The proposed restoration will increase surface water detention while reducing run off which will also enhance water quality through vegetative and native soil filtration. The Master Drainage Report prepared by Morris-Depew Associates and Integrated Model Analysis prepared by Progressive Water Resources demonstrates that the peak runoff of the proposed development will be less than the existing conditions, decreasing the potential for flood conditions on downstream properties. Additionally, the proposed development increases groundwater recharge conditions as compared to the existing conditions. To the maximum extent possible given the proximity of the property to the SWFIA the proposed development incorporates natural features for improving surface water flows, groundwater levels and lake levels consistent with Policies 126.1.1 and 126.1.4.

Conclusions

The requested amendments, incorporating the Mixed Use Community Enhancement Overlay, are the first step of the entitlement process to establish a cohesive master plan with unified commercial and residential development on the subject property consistent with the Southeast Lee and Lehigh Acres Community Plans. Developed independently under presently permissible land use, the development patterns would be scattered and uncoordinated with a portion relying on wells and septic, further conflicting with the general intent and vision of the DR/GR Future Land Use.

As proposed, the Overlay also provides the opportunity to evaluate properties individually for redevelopment to determine if the required prerequisites and the proposed development conditions as part of a concurrent planned development have been met. An emphasis has been placed on the preservation and restoration of native habitat in a manner that also restores historic flow patterns across the property promoting the overall intent of the DR/GR which could not be achieved without the requested amendments.

The supporting materials provided as part of this amendment request demonstrate a unified stormwater management system that will appropriately address nutrient loading and surface water quality while interconnecting the 2 watershed basins on-site in a manner consistent with the property's proximity to

SWFIA. This design promotes a beneficial increase in recharge to the underlying Water Table Aquifer as compared to existing conditions. The design also clusters the proposed development in a manner that preserves or enhances 55% of the property, consistent with other overlays within the Southeast Lee Community Planning Area. However, incentive density is only requested for the preserved or restored indigenous habitat; which includes Rare and Unique Upland Habitat, an enhancement over existing overlays within the Southeast Lee Community Planning Area. The proposed amendments and site design take into account the unique conditions of the subject property to appropriately balance the objectives of the DR/GR FLU, Southeast Lee Community Planning Area, potential wildlife attractants to re-establish historic flow patterns, increase aquifer recharge, reduce off-site surface water flows, and preserve and restore 679 acres of habitat.

EXHIBIT E

OF SUPPORTING NARRATIVES

PUBLIC FACILITIES IMPACT ANALYSIS
EXHIBITS – M14 & T5

STEARNS WEAVER MILLER
WEISSLER ALHADEFF & SITTERSON, P.A.

Tina M. Ekblad, MPA, AICP
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Daniels Parkway South
Comprehensive Plan Amendment
Public Facilities Impact Analysis – Exhibit M14
Existing and Future Conditions Analysis – Exhibit M16

June 10, 2022

The Property for the proposed development is located in Future Urban and Non-Urban Area. More specifically an amendment from Central Urban to Intensive Development is proposed with the remainder of the property staying within the DR/GR and Wetlands categories. However, the property is within an area of the County that has been designated for urban services. A majority of the urban services are adjacent to or within the vicinity of the subject property and available to serve the property and its residents/occupants. Copies of all Letters of Availability from each service provider are attached to the application for reference. The impacts of the requested amendments on public facilities are evaluated by comparing the existing development to the proposed development per the comprehensive plan amendments and concurrent rezoning.

Utilities (Public sewer and water)
The subject property is partially within the service area for Lee County Utilities and a Letter of Availability has been included in the application materials to demonstrate adequate capacity is available to serve the proposed development and will be provided by the Corkscrew Water Treatment Plant and Gateway Water Treatment Plant. A map amendment is requested to extend the Lee County Utilities Service area across the entire property to provide central water and sewer services to the proposed development. While the proposed amendments would increase the available density on the subject property, the requested commercial square footage is currently permissible within the existing Central Urban FLU.

Per Lee Plan Policy 95.1.3, an average treatment and disposal capacity of 250 gallons per day per Equivalent Residential Connection (ERC) for potable water is required. The 2021 Concurrency Report indicated that Potable Water is available at a capacity of 314 gallons per day per ERC; which exceeds the required LOS. The 2021 Concurrency Report also confirms that all wastewater systems are operating within capacity and meet the LOS standard for unincorporated Lee County.

Potable Water
Existing Maximum Residential per Central Urban, DR/GR and Wetlands FLUs:
933.4ERC X 250 GPD = 233,350 GPD

Proposed Impact of Residential within Overlay:
1,859ERC X 250 GPD = 464,750 GPD

Sanitary Sewer
Existing Maximum Residential per Central Urban, DR/GR and Wetlands FLUs:
933.4 ERC X 200 GPD = 186,680 GPD

Proposed Impact of Additional Residential within Overlay
1,859 ERC X 200 GPD – 371,800 GPD

Public Safety (Police, Fire, and EMS)
The subject property is able to be served by multiple providers for Emergency Medical Services, Fire and Police. Lee County Emergency Medical Services is the primary EMS transport for the subject property. However, the property is also within the Lehigh Acres Fire District which provides medical transport as well. Both service providers would work together to serve the subject property. Lee County EMS does not have a resource in this area, but the concurrent planned development includes land area for future expansion of service.

The subject property is also served by two Fire Districts, the South Trail and Lehigh Acres Fire Districts. The South Trail Fire District would serve the southern portion of the property from Station 63 located at 5531 Halifax Ave. The Lehigh Acres Fire District would serve the northern portion of the property from the located at 636 Thomas Sherwin Ave. S. The agency is capable of providing services to the subject property as it falls within the boundaries of the fire district.

The subject property is located wholly within the service area for the Lee County Sheriff. The Central District Station located at 14750 Six Mile Cypress Parkway is responsible for providing service to the subject property.

Schools
The subject property is within the Lee County School District East Zone, E2. According to the Letter of Availability from the Lee County School District the proposed development will generate 475 school-age children. There is capacity within the entire school district to accommodate the additional children.

Any deficit created at the middle school level will be addressed via the opening of the new LAMS campus (middle school MM) in the 2021-2022 school year which will add 1,210 seats of permanent capacity.
1,210 [proposed new seats in MM] – 1,108 [existing deficit] = 102 seats [capacity].

Any deficit created at the high school level will be addressed via the opening of the Gateway High School campus during the 2021-2022 school year which will add 1,475 seats in additional capacity.
1,475 [proposed new seats at Gateway High] – 469 [existing deficit] = 1,006 seats [capacity]

Solid Waste
The property is within the Lee County Solid Waste Franchise and is served through Lee County's franchised hauling contractor. Disposal of waste generated from the subject property will be accomplished at the Lee County Resource Recovery Facility and the Lee-Hendry Regional Landfill. Service is available to the subject property and plans have been established that target growth and long term disposal capacity for this particular area.

LOS Standard = 7 lbs/day/capita OR 990,405 tons/year
Current Capacity = 7.9 lbs/day/capita OR 1,134,667 tons/year

Existing Maximum Residential Impact per DR/GR & Wetlands FLUs
88.9 dwelling units X 2.64 persons per unit = 234.69 persons
234.7 persons X 7lbs./day = 1,642.8 lbs./day
1,642.8 lbs./day X 365 days = 599,648.28 lbs./year
599,648.28 lbs./year = 299.8 tons/year

Proposed Impact of Additional Residential per Overlay
1,600 dwelling units X 2.64 persons per unit = 4,224
4,224 persons X 7lbs./day = 29,568 lbs./day
29,568 lbs./day X 365 days = 10,792,320 lbs./year
10,792,320 lbs./year = 5,396.16 tons/year

Surface Water/Drainage Basins
The regulatory standards described in Policy 95.1.3(4)(c) require new development to be designed to South Florida Water Management District (SFWMD) standards to detain or retain excess stormwater to match the predevelopment discharge rate for the 25-year, 3-day storm event. Additionally, it requires that the stormwater system must prevent the flooding of designated evacuation routes on the Lee Plan Map 15 from the 25-year, 3-day storm event for more than 24 hours. (The Lee Plan no longer has a Map 15 and the current evacuation routes are identified in Lee Plan Map 3J which identifies both Daniels Parkway and SR 82 as being evacuation routes.) The proposed text amendment and concurrent planned development will be consistent with the requirements of Lee Plan Policy 95.1.3 (including Map 3J) and an ERP permit is required to be obtained for the proposed development prior to construction commencement.

Parks, Recreation, and Open Space
The non-regulatory standards described in Policy 95.1.3(6)(a & b) require six (6) acres of developed regional park land open for public use per 1,000 total seasonal county population for all of Lee County and .8 acres of developed community park land open for public use per 1,000 unincorporated Lee County permanent population.

Regional Parks Level of Service
867,000 [seasonal county population] X (6 acres/1,000 population) = 5,202 acres
The 2020 Lee County Concurrency Report indicates that there are a total required 5,202 acres of regional parks and that the available capacity lists 7,051 acres of regional parks therefore there is available capacity to meet the adopted LOS standard.

Additionally, the 2021 Concurrency Report states that the existing inventory meets the regional park level-of-service standard in the County for the year 2020 and will continue to do so at least through the next five years of the capital improvement plan (CIP).

Community Parks Level of Service
361,315 [permanent unincorporated county population] X (0.8 acres/1,000 population) = 289 acres

The 2021 Lee County Concurrency Report indicates that there are a total required 289 acres of community parks and that the available capacity lists 832 acres of community parks therefore there is available capacity to meet the adopted LOS standard.

Additionally, the 2021 Concurrency Report states that the existing inventory meets the regional park level-of-service standard in the County for the year 2020 and will continue to do so at least through the next five years of the capital improvement plan (CIP).

RECEIVED
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COMMUNITY DEVELOPMENT

ATTACHMENT 3

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENTS CPA2021-00017 & CPA2021-00018

MAP SERIES

[June 10, 2022]

EXHIBIT A

OF MAP SERIES

AERIAL
EXHIBIT – M9



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

MORRIS DEPEW
ENGINEERS • PLANNERS • SURVEYORS
LANDSCAPE ARCHITECTS
FL CA NO. 6532 / FL CERT NO. LB6891 / LC26000330

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Toll free: 866-337-7341

PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	4/27/2022

SHEET TITLE:

AERIAL EXHIBIT

SHEET NUMBER: (GI-004)

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SCALE 1"=500'

JOB/FILE NUMBER: 21008-00

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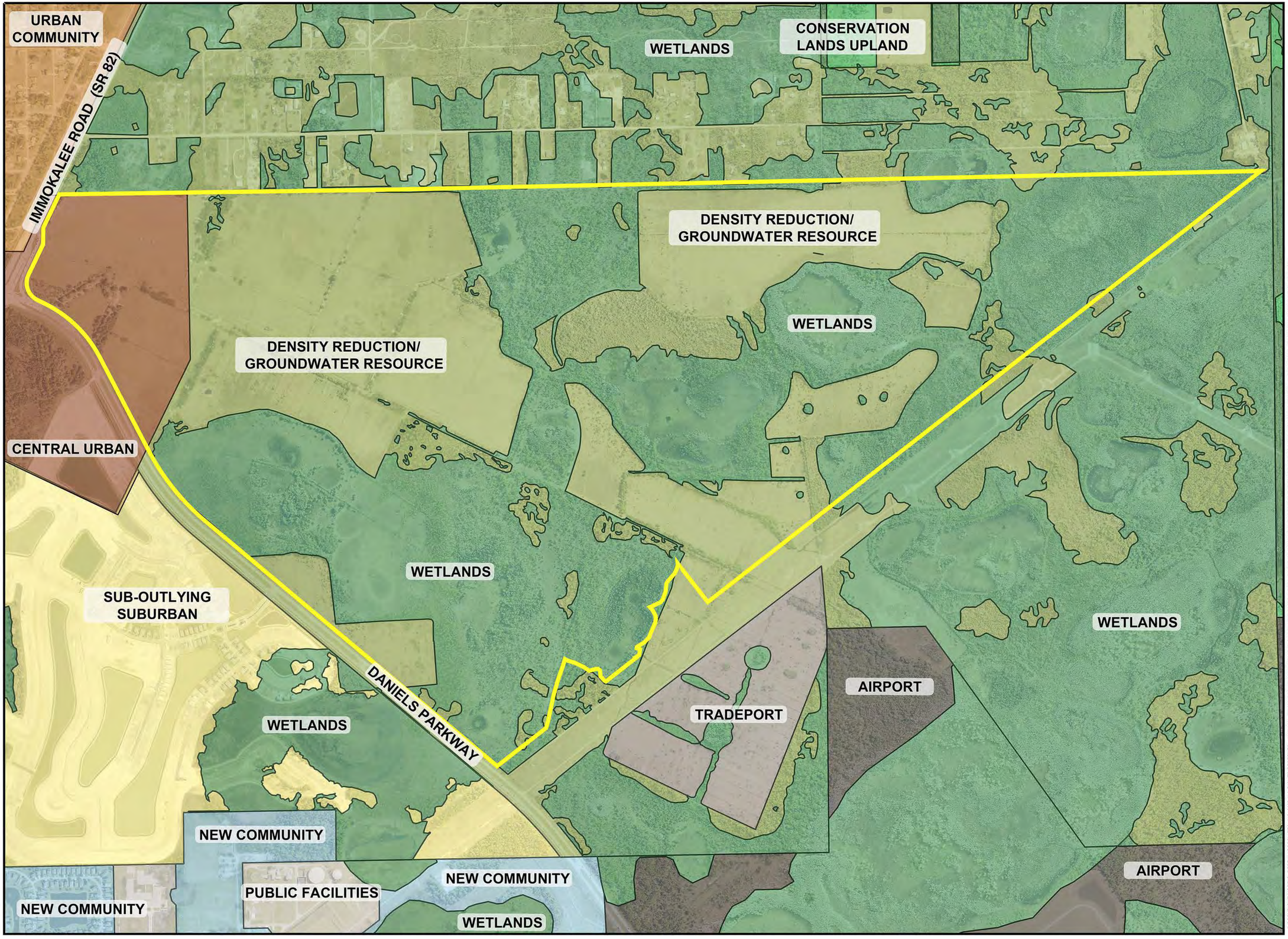
EXHIBIT B

OF MAP SERIES

EXISTING FUTURE LAND USE
EXHIBIT – M4



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

MORRIS DEPEW

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PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

EXISTING FUTURE LAND USE MAP

SHEET NUMBER: (M1. A)

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SCALE 1"=500'

JOB/FILE NUMBER: 21008-00

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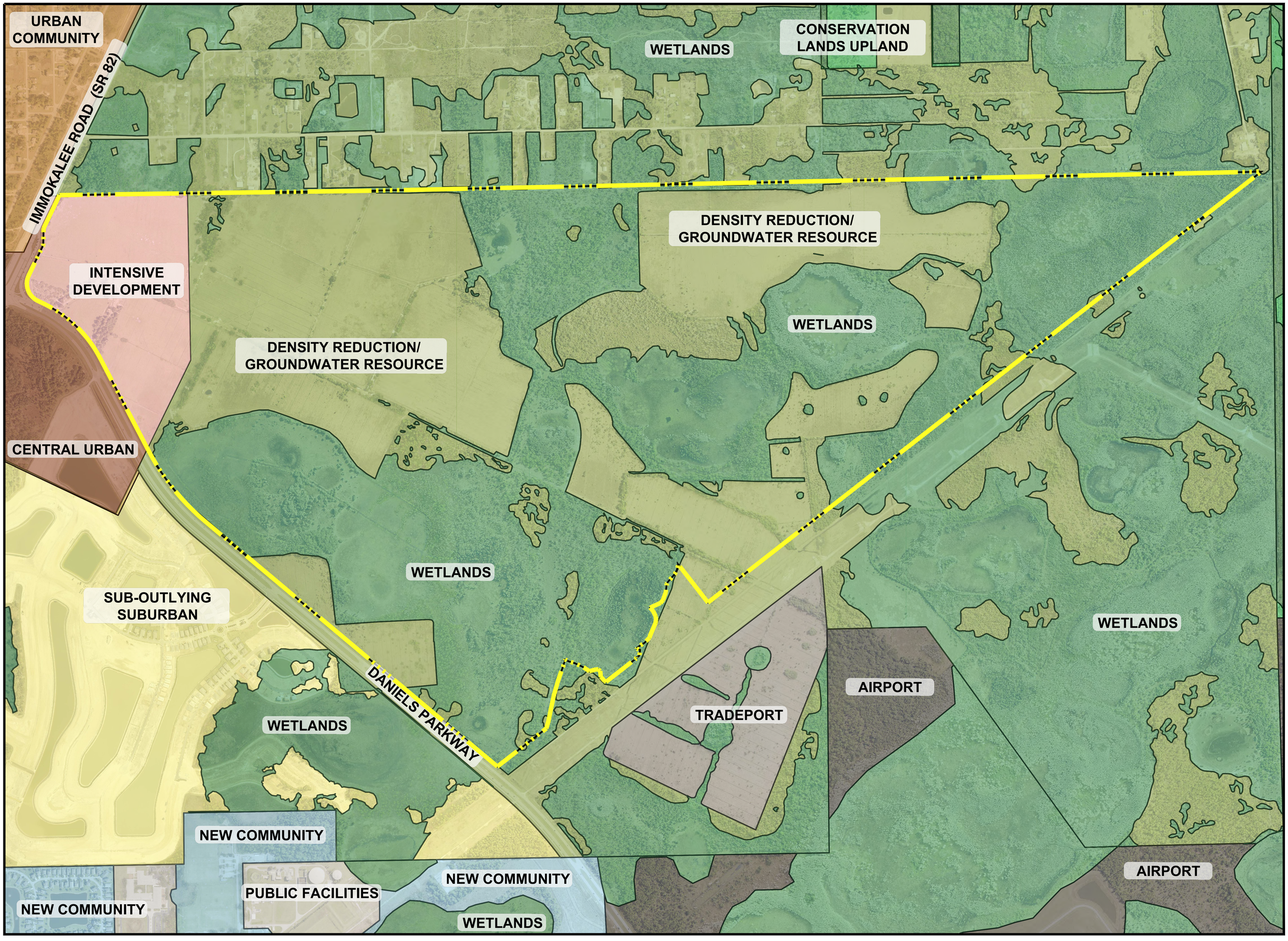
EXHIBIT C

OF MAP SERIES

PROPOSED FUTURE LAND USE
EXHIBIT – M4



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

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PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	4/27/2022

SHEET TITLE:

PROPOSED FUTURE LAND USE MAP

SHEET NUMBER: (M1. A)

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JOB/FILE NUMBER: 21008-00

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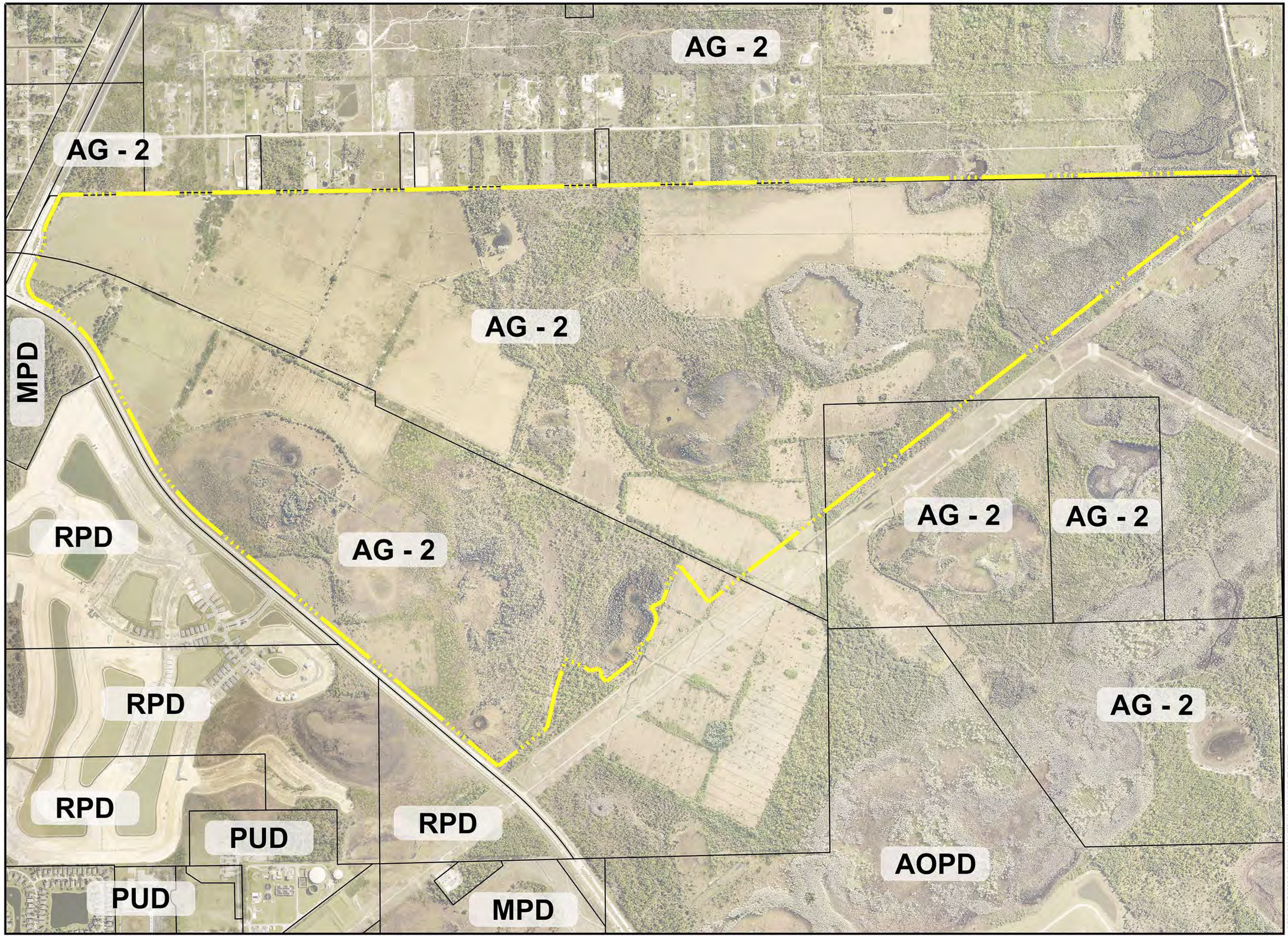
EXHIBIT D

OF MAP SERIES

EXISTING ZONING
EXHIBIT – M6



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

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PREPARED BY:

REVISIONS	DATE
PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

ZONING MAP

SHEET NUMBER: (M6)

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JOB/FILE NUMBER: 21008-00

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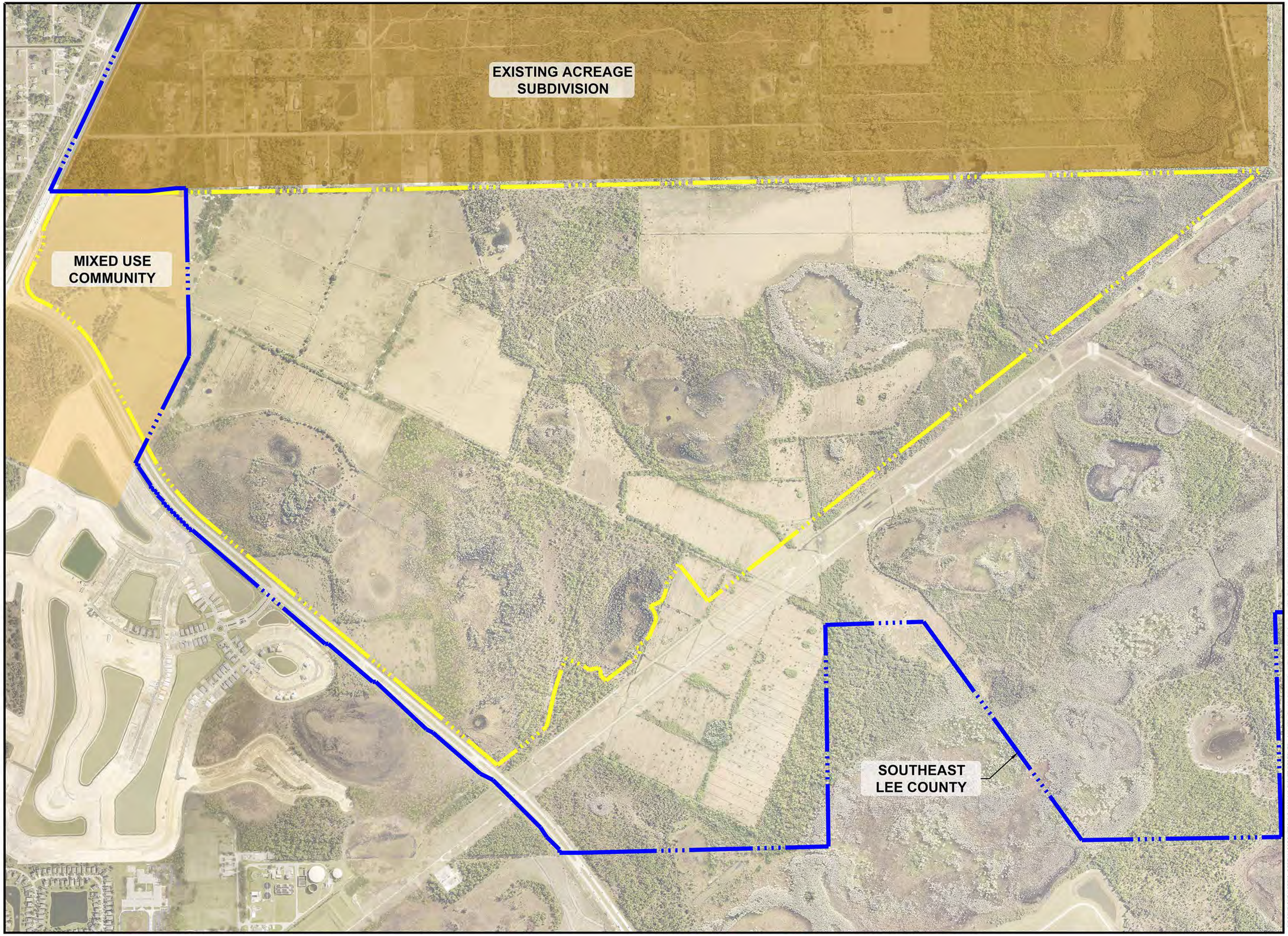
EXHIBIT E

OF MAP SERIES

EXISTING MIXED USE COMMUNITIES MAP 2-D



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

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PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

EXISTING SOUTHEAST DRGR RESIDENTIAL OVERLAY

SHEET NUMBER: (M2. D)

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SCALE 1"=500'

JOB/FILE NUMBER: 21008-00

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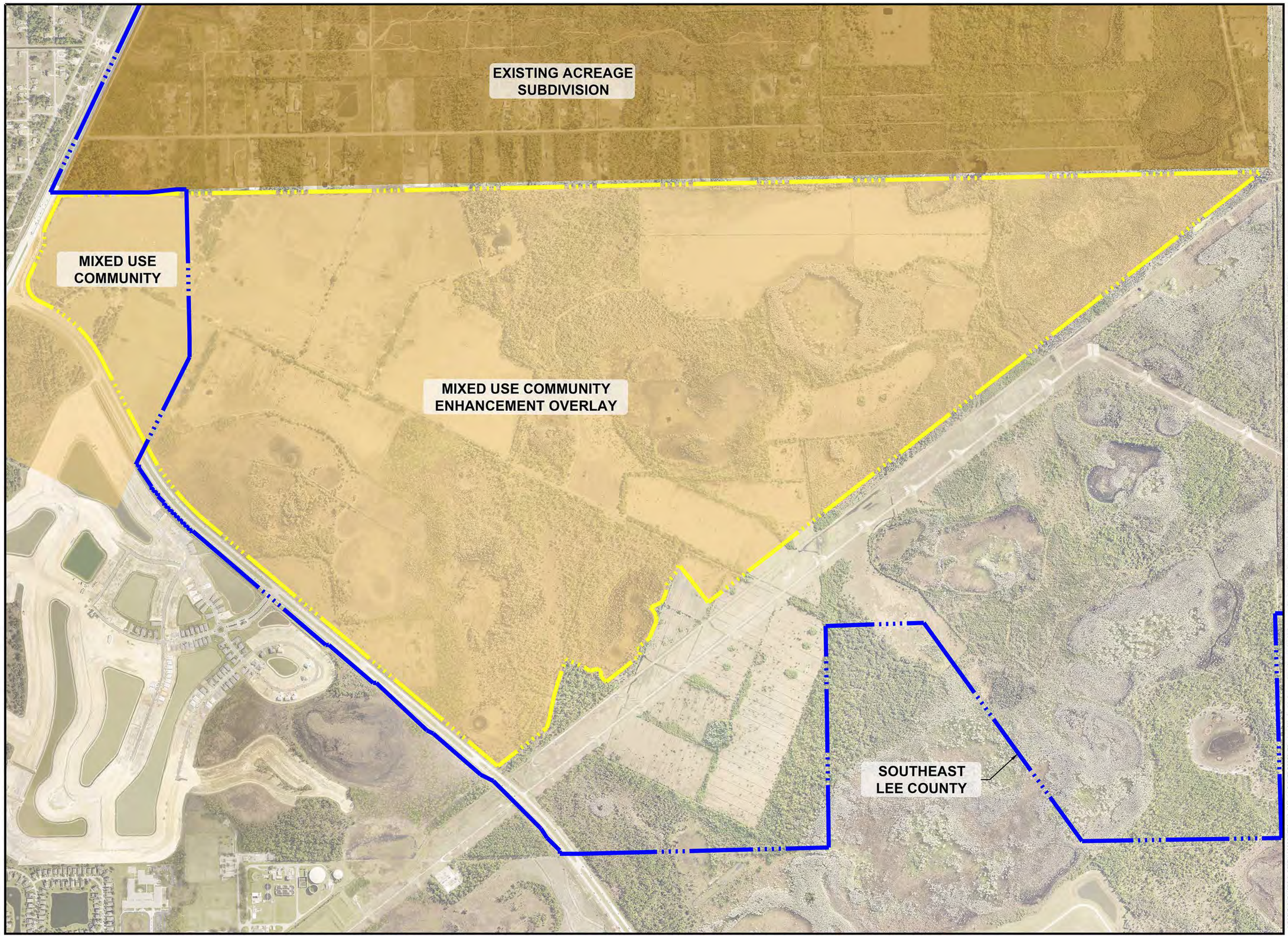
EXHIBIT F

OF MAP SERIES

PROPOSED MIXED USE COMMUNITIES MAP 2-D



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

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CONSULTANT:

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PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

PROPOSED SOUTHEAST DRGR RESIDENTIAL OVERLAY

SHEET NUMBER: (M2. D)

500 0 250 500
SCALE 1"=500'

JOB/FILE NUMBER: 21008-00

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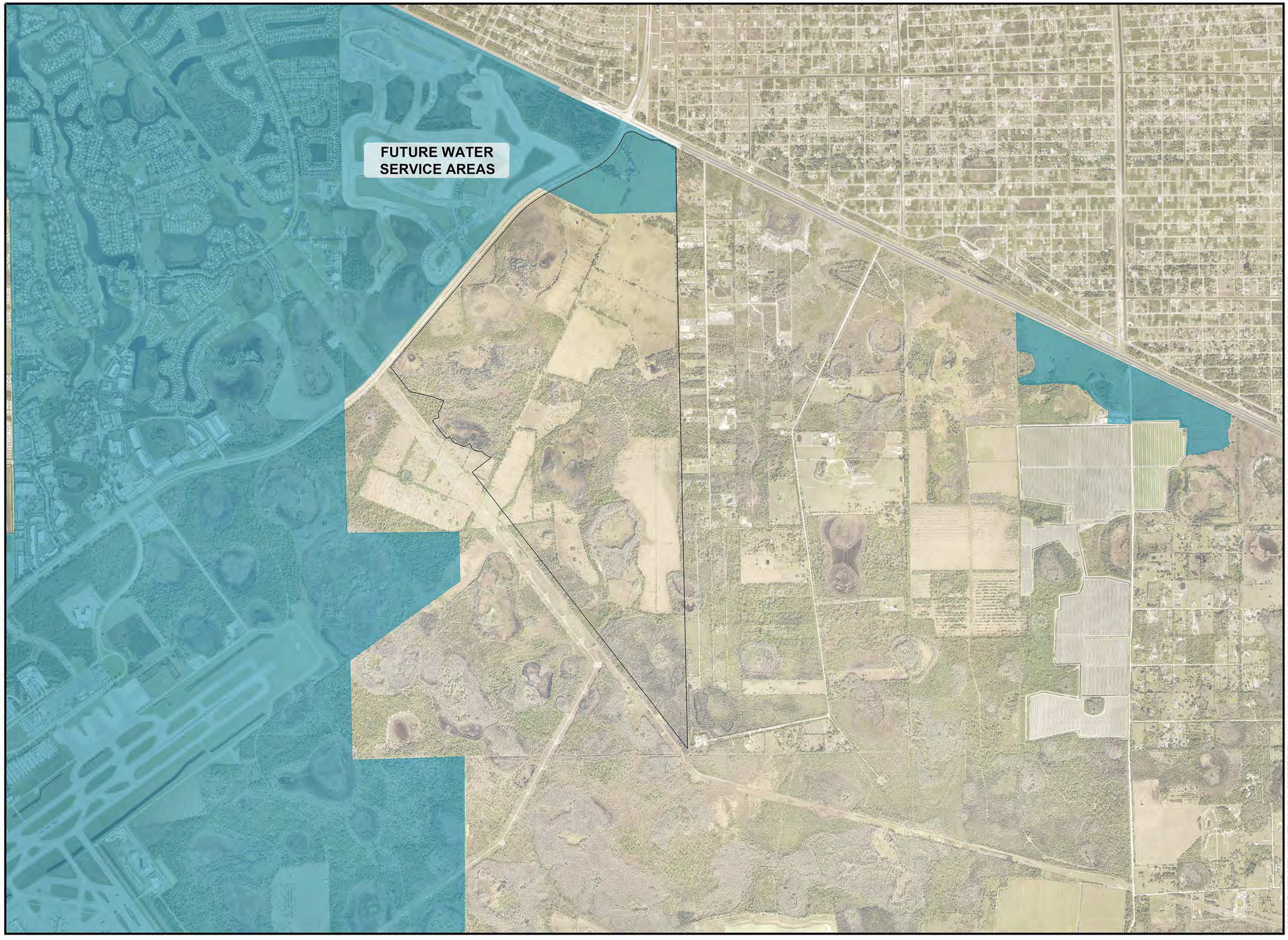
EXHIBIT G

OF MAP SERIES

EXISTING LCU SERVICE AREA MAP 4-A



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

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Toll free: 866-337-7341

Destin
5597 Highway 98
Unit 201
Santa Rosa Beach, Florida 32459
Toll free: 866-337-7341

PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

EXISTING LEE PLAN MAP 4-A

SHEET NUMBER: (M4. A)

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SCALE 1"=1000'

JOB/FILE NUMBER: 21008-00

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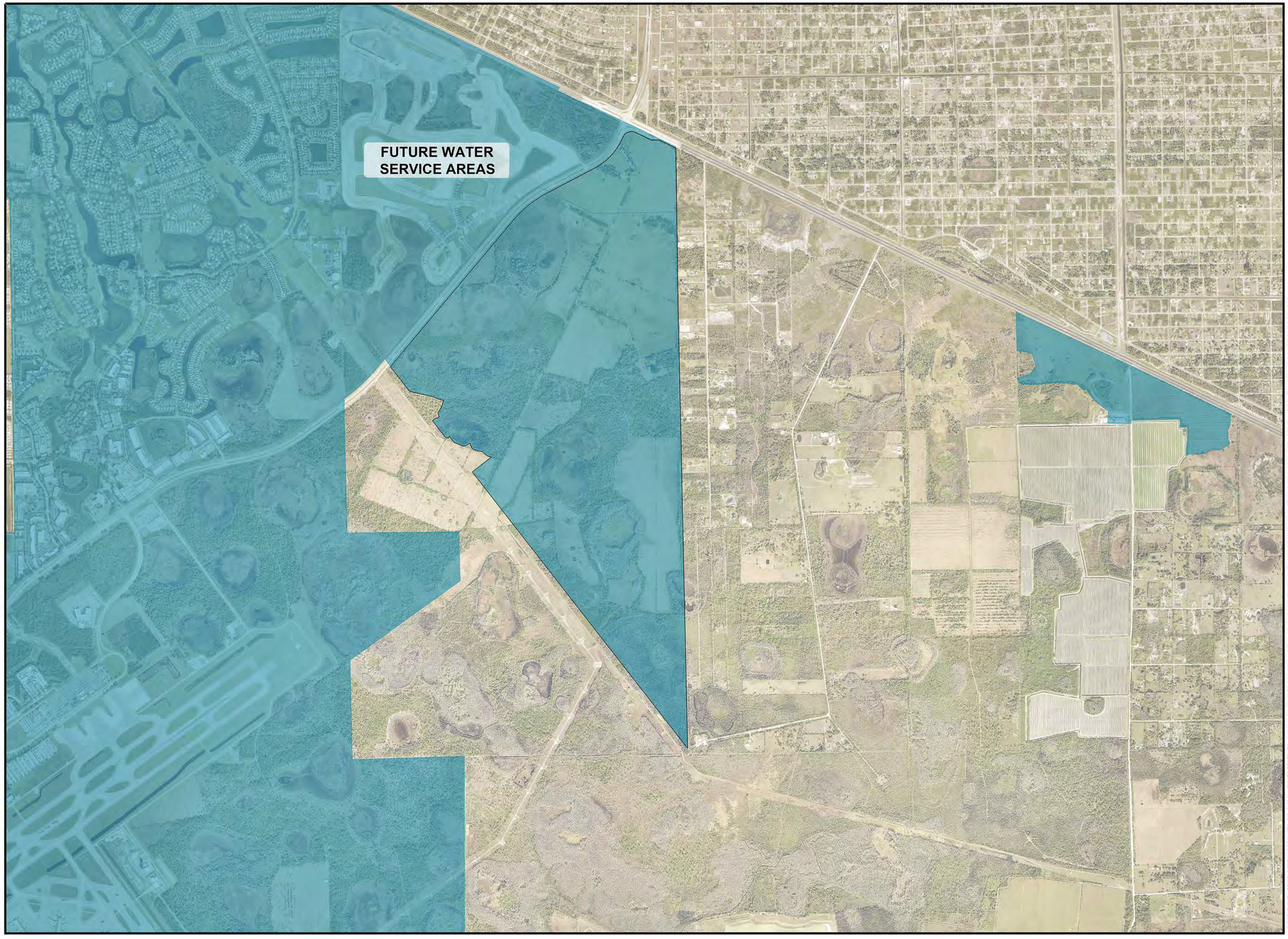
EXHIBIT H

OF MAP SERIES

PROPOSED LCU SERVICE AREA MAP 4-A



PROJECT:

DANIELS
PARKWAY SOUTH
COMPREHENSIVE
PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

MORRIS DEPEW
ENGINEERS • PLANNERS • SURVEYORS
LANDSCAPE ARCHITECTS
FL CA NO. 6532 / FL CERT NO. LB6891 / LC26000330

Fort Myers
2914 Cleveland Avenue
Fort Myers, Florida 33901
(239) 337-3993
Fax: (239) 337-3994
Toll free: 866-337-7341

Tallahassee
113 South Monroe Street
1st Floor
Tallahassee, Florida 32301
Toll free: 866-337-7341

Destin
5597 Highway 98
Unit 201
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Toll free: 866-337-7341

PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

PROPOSED LEE
PLAN MAP 4-A

SHEET NUMBER: (M4. A)

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SCALE 1"=1000'

JOB/FILE NUMBER: 21008-00

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EXHIBIT I

OF MAP SERIES

EXISTING LCU SERVICE AREA MAP 4-B



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

MORRIS DEPEW
ENGINEERS • PLANNERS • SURVEYORS
LANDSCAPE ARCHITECTS
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Tallahassee, Florida 32301
Toll free: 866-337-7341

Destin
5597 Highway 98
Unit 201
Santa Rosa Beach, Florida 32459
Toll free: 866-337-7341

PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

EXISTING LEE PLAN MAP 4-B

SHEET NUMBER: (M4. B)

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SCALE 1"=1000'

JOB/FILE NUMBER: 21008-00

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EXHIBIT J

OF MAP SERIES

PROPOSED LCU SERVICE AREA MAP 4-B



PROJECT:

DANIELS
PARKWAY SOUTH
COMPREHENSIVE
PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

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5597 Highway 98
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Toll free: 866-337-7341

PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

PROPOSED LEE
PLAN MAP 4-B

SHEET NUMBER: (M4. B)

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SCALE 1"=1000'

JOB/FILE NUMBER: 21008-00

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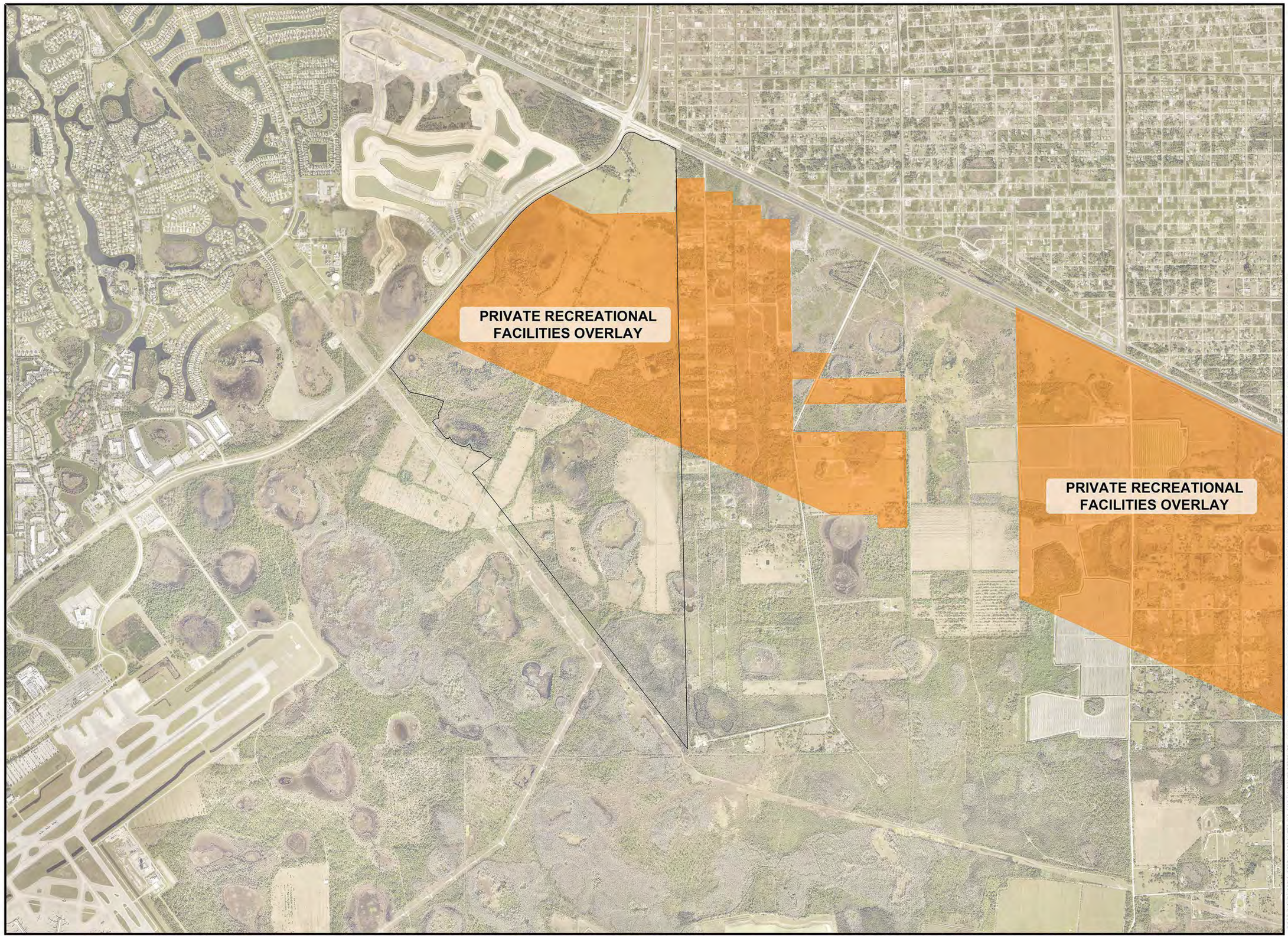
EXHIBIT K

OF MAP SERIES

EXISTING PRIVATE RECREATIONAL FACILITIES OVERLAY MAP 1-F



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

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Toll free: 866-337-7341

PREPARED BY:

REVISIONS	DATE
PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

EXISTING LEE PLAN MAP 1-F

SHEET NUMBER: (M1. F)

1000 0 500 1000
SCALE 1"=1000'

JOB/FILE NUMBER: 21008-00

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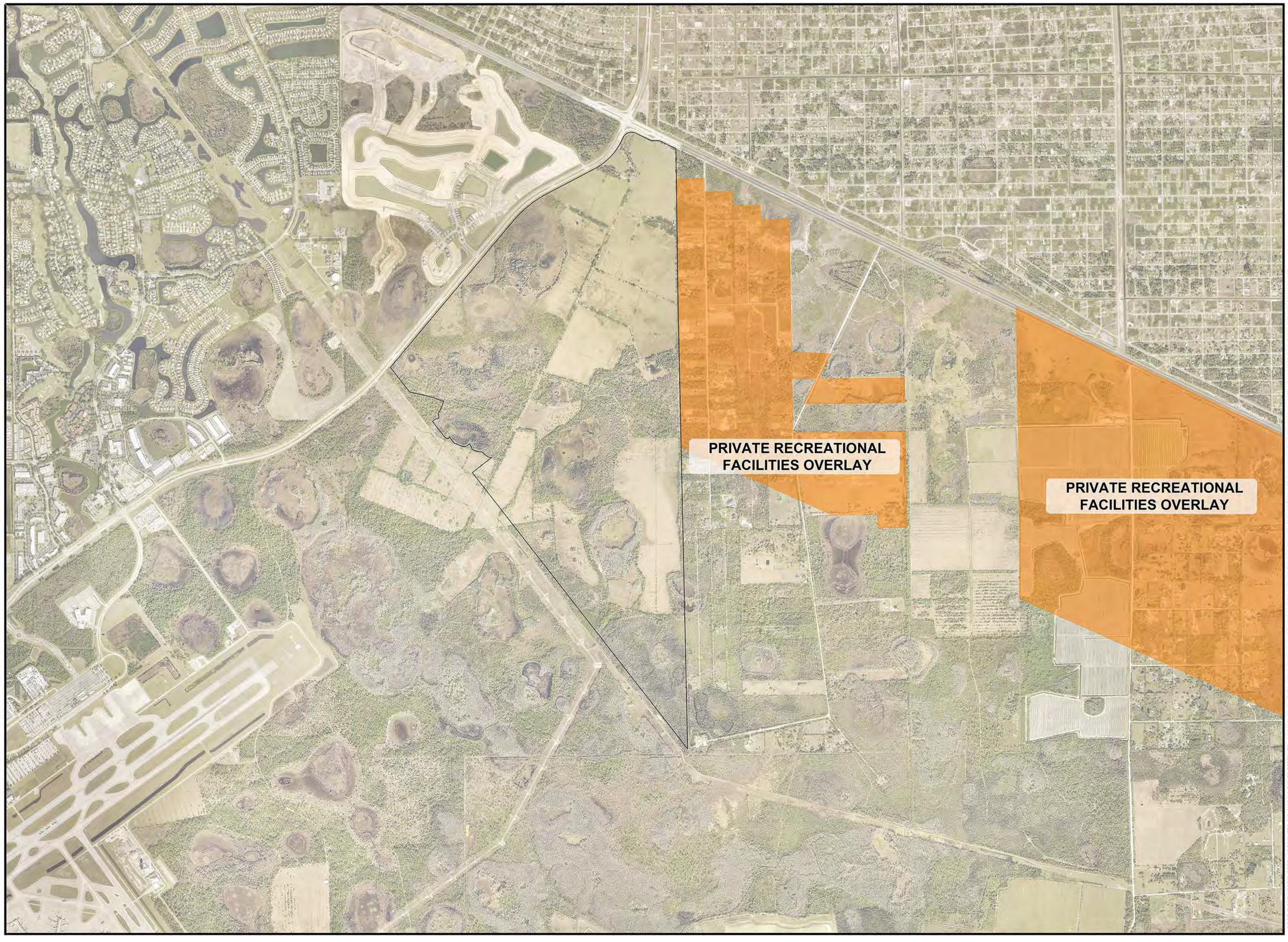
EXHIBIT L

OF MAP SERIES

PROPOSED PRIVATE RECREATIONAL FACILITIES OVERLAY MAP 1-F



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

MORRIS DEPEW

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Toll free: 866-337-7341

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5597 Highway 98
Unit 201
Santa Rosa Beach, Florida 32459
Toll free: 866-337-7341

PREPARED BY:

REVISIONS	DATE
PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	2/17/2022

SHEET TITLE:

PROPOSED LEE PLAN MAP 1-F

SHEET NUMBER: (M1. F)

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SCALE 1"=1000'

JOB/FILE NUMBER: 21008-00

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EXHIBIT M

OF MAP SERIES

TOPOGRAPHY & FLOOD MAP



PROJECT:

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENT

LOCATION:

13400 DANIELS PARKWAY
FORT MYERS, FL 33913

CLIENT:

LENNAR

CONSULTANT:

MORRIS DEPEW
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LANDSCAPE ARCHITECTS
FL CA NO. 8332 / FL CERT NO. LB6891 / LC26000330

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Toll free: 866-337-7341

Destin
5597 Highway 98
Unit 201
Santa Rosa Beach, Florida 32459
Toll free: 866-337-7341

PREPARED BY:

REVISIONS	DATE

PROJECT MANAGER:	TME
DRAWING BY:	CJV
JURISDICTION:	LEE COUNTY
DATE:	3/18/2022

SHEET TITLE:

TOPOGRAPHIC FLOOD MAP

SHEET NUMBER: 12A

500 0 250 500
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JOB/FILE NUMBER: 21008-00

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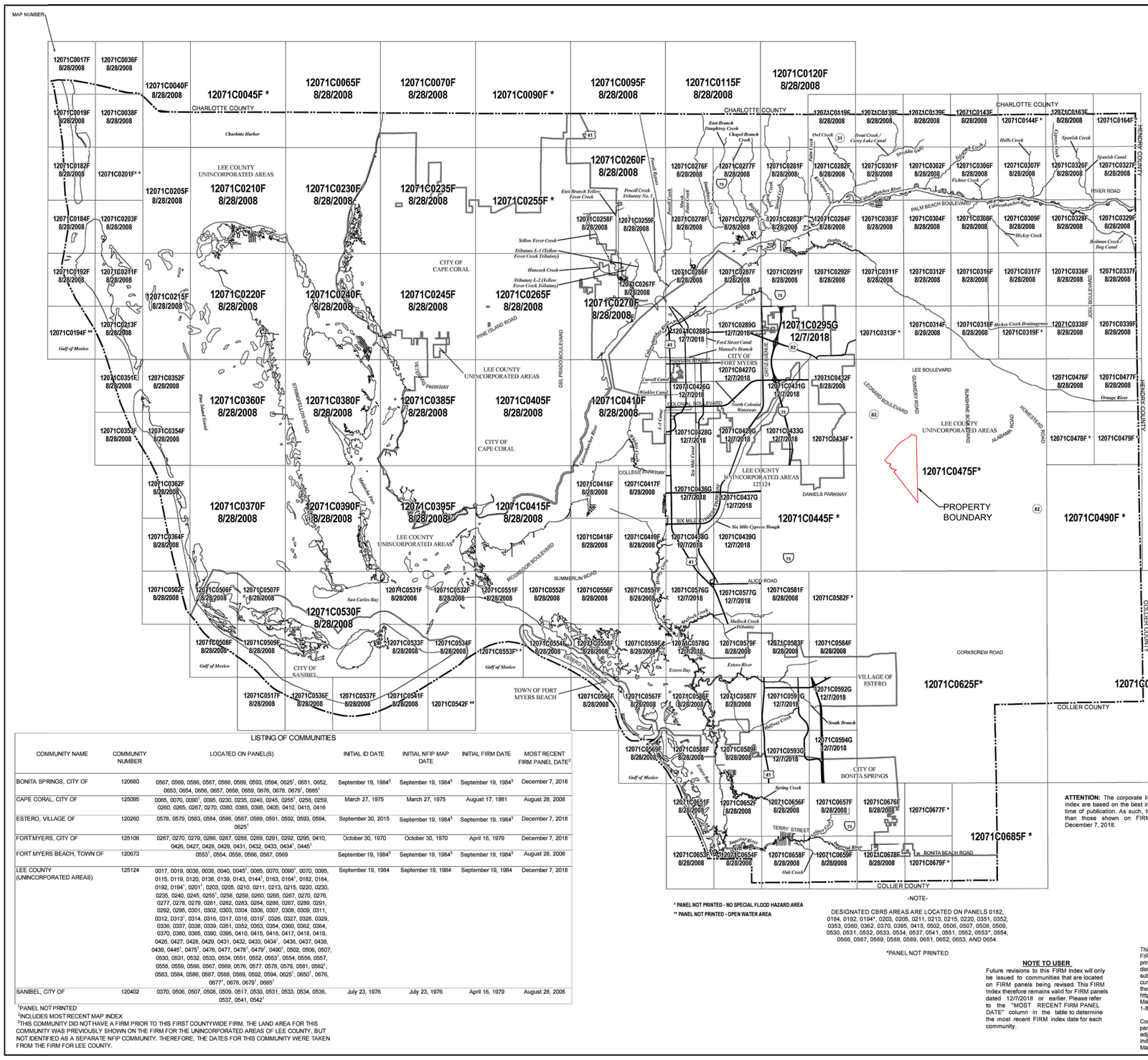
EXHIBIT N

OF MAP SERIES

FIRM MAP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HENDRY COUNTY
COLLIER COUNTY
LEE COUNTY UNINCORPORATED AREAS
LEE COUNTY UNINCORPORATED AREAS 125124
LEE BOULEVARD
CORKSCREW ROAD
ALICO ROAD
DANIELS PARKWAY
COLLEGE PARKWAY
SUMMERLIN ROAD
PALM BEACH BOULEVARD
RIVER ROAD
PINE ISLAND ROAD
DEL PRADO BOULEVARD
CITY OF FORT MYERS
CITY OF BONITA SPRINGS
VILLAGE OF ESTERO
TERRY STREET
BONITA BEACH ROAD
SR 82
SR 31
SR 78
SR 80
I-75
US 41
Caloosahatchee River
Estero River
Estero Bay
Spring Creek
Imperial River
Oak Creek
Halfway Creek
Mullock Creek
Six Mile Cypress Slough
Gator Slough
Billy Creek
Hickey Creek
Orange River
Spanish Creek
Belaman Creek / Dog Canal
Trout Creek / Carry Lake Canal
Owl Creek
Halls Creek
Cypress Creek
Fichter Creek
Yellow Fever Creek
Tributary L-1 (Yellow Fever Creek Tributary)
Hancock Creek
Tributary L-2 (Yellow Fever Creek Tributary)
East Branch Yellow Fever Creek
Powell Creek
Powell Creek Tributary No. 1
Hancock Creek
Hancock Creek Tributary
Hendry Creek
Hendry Creek Tributary
Whiskey Creek
Whiskey Creek Tributary
East Branch Daughtrey Creek
Daughtrey Creek
Chapel Branch Creek
Ford Street Canal
Manuel's Branch
North Colonial Waterway
Carrell Canal
Winkler Canal
Lee Canal
Ten Mile Canal
Ten Mile Creek
Caloosahatchee River
Billy Creek
Hickey Creek Drainageway
Gunnery Road
Sunshine Boulevard
Alabama Road
Homestead Road
Leonard Boulevard
Del Prado Boulevard
Joel Boulevard
Hanson Street
Ortiz Avenue
Metro Parkway
Veterans Parkway
Strinfellow Road
Matlacha Pass
Pine Island Sound
San Carlos Bay
Gasparilla Sound
Charlotte Harbor
Gulf of Mexico
Estero Bay
Mullock Creek
Halfway Creek
Spring Creek
Imperial River
Oak Creek
Six Mile Cypress Slough
Gator Slough
Billy Creek
Hickey Creek
Orange River
Spanish Creek
Belaman Creek / Dog Canal
Trout Creek / Carry Lake Canal
Owl Creek
Halls Creek
Cypress Creek
Fichter Creek
Yellow Fever Creek
Hancock Creek
East Branch Yellow Fever Creek
Powell Creek
Hancock Creek
Hendry Creek
Whiskey Creek

RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

ATTACHMENT 4

DANIELS PARKWAY SOUTH
COMPREHENSIVE PLAN AMENDMENTS
CPA2021-00017 & CPA2021-00018

ENVIRONMENTAL REPORTS EXHIBITS
M12 & T7

[June 10, 2022]

EXHIBIT A

OF ENVIRONMENTAL REPORTS
EXHIBITS – M12 & T7

SFWMD WETLAND DETERMINATION

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

May 9, 2022

** Delivered via email*

Barry Ernst *
Lennar Homes LLC
10481 Six Mile Cypress Pkwy
Fort Myers, FL 33966

Subject: Daniels Parkway South
Petition for Formal Determination of Wetlands and Surface Waters
Permit No. 36-107020-P
Application No. 211115-32173
Lee County

Your petition for a formal determination of wetlands and other surface waters is approved. This action is taken based on Chapter 373, Part IV of Florida Statutes (F.S.) and the rules in Chapters 62-330 and 62-340, Florida Administrative Code (F.A.C.). Please read this entire agency action thoroughly and understand its contents.

This action is subject to:

- Not receiving a filed request for a Chapter 120, F.S., administrative hearing.
- All referenced Exhibits.

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance to the "Notice of Rights", we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I hereby certify that this Formal Wetland Determination and Notice of Rights have been mailed or electronically submitted to the addressee (and the persons listed on the attached distribution list) on May 9, 2022 in accordance with Section 120.60(3), F.S. Notice was also electronically posted on this date through a link on the home page of the District's website (www.sfwmd.gov/ePermitting).

Sincerely,

Melissa M. Lawrence, P.E.
Bureau Chief, Environmental Resource Bureau

South Florida Water Management District
Formal Wetland Determination Permit No. 36-107020-P
Date Issued: May 9, 2022

Project Name:	Daniels Parkway South
Petitioner:	Barry Ernst Lennar Homes LLC 10481 Six Mile Cypress Pkwy Fort Myers, FL 33966
Application No.	211115-32173
Location:	Lee County, See Exhibit 1
Acres:	1,233.08
Expiration Date:	May 9, 2027
Type:	Certified Survey

Project Summary

This application is for a formal determination of the landward extent of wetlands and other surface waters (OSW), pursuant to Rule 62-330.201 Florida Administrative Code (F.A.C.), for a 1,233.08 acre property known as Daniels Parkway South. The methodology used for the determination is consistent with Rule 62-340 F.A.C.

Project Site Description

The 1,233.08 acre property is located in Sections 9, 16, 17, and 21; Township 45 South; Range 26 East; Lee County, Florida. More specifically, the property is located south of S.R. 82 and east of Daniels Parkway. A Location Map is attached as Exhibit No. 1.0. The property is surrounded by S.R. 82 and Lehigh Acres to the north; low-density single family homes and undeveloped forested land including wetlands to the east; a power line easement and undeveloped land including wetlands to the south; and Daniels Parkway, a power line easement, and the Timber Creek community to the west. The existing land uses on the property include pastureland for cattle grazing and undeveloped forested uplands and wetlands. An aerial photograph depicting the inspection boundary is attached as Exhibit No. 2.0.

Formal Determination of Wetlands and Other Surface Waters

On November 15, 2021, the District received a request for a formal determination of the boundary of wetlands and OSW on a 1,233.08 acre property known as Daniels Parkway South. The landward extent of wetlands was established by Passarella & Associates, Inc. and verified by Certified Wetland Evaluator (CWE) Matt Brosious of the South Florida Water Management District on January 14, 20, and 21, 2022. Wetlands and other surface waters (OSW), as defined by Subsection 373.019(27) F.S. and Rule 62-340 F.A.C., were identified on the property. Wetlands and OSW on the property were delineated using the methods established in Rule 62-340 F.A.C.; more specifically, the wetlands were delineated using the Wetlands Definition, and A, B and D tests. Wetlands delineated on the property totaled 532.51 acres and OSW totaled 30.93 acres. A wetland and OSW line survey is attached as Exhibit Nos. 3.0 and 3.1. The wetland boundaries on-site were surveyed, while the OSW on-site were field verified using an approximate formal determination, via GPS coordinates. To meet the range of variability

criteria for approximate delineations, in Section 7.2.2(e)2(a) Applicants Handbook, Vol. I, 19 survey located points are included in the specific purpose survey for the OSW on-site; see page 22. As evidenced by the survey, the accuracy of the GPS and aerial interpreted lines compared to the survey located points is within 25 feet, thus falling within the range of variability. Wetland delineation information, including wetland data point location map, wetland data forms, and representative photographs of the wetlands and upland areas can be found in the permit file.

Wetland Description:

The wetlands identified on the property totaled 532.51 acres (Exhibit Nos. 3.0 and 3.1). Wetland habitats on the property generally consisted of hydric pine, cypress, shrub wetlands, wet prairie, freshwater marsh and hydric pasture, with varying degrees of exotic vegetation. Upland habitats adjacent to the wetlands generally included pine flatwoods, palmetto prairie, improved pasture and a power line easement. The wetlands were delineated using the Wetland Definition, A, B, and D tests.

OSW Description:

Other surface waters identified and delineated on the property totaled 30.93 acres. OSW generally consisted of remnant agricultural ditches and ditches within a historically used military installation, which is visible on the 1968 aerial photograph in the permit file.

Based on the National Resource Conservation Service (NRCS) data, the property contains ten (10) historically mapped hydric soils. The mapped hydric soils on the property included Hallandale Fine Sand, Wet (Map Unit 6), Pompano Fine Sand (Map Unit 10), Valkaria Fine Sand (Map Unit 14), Pineda-Pineda Wet Fine Sand (Map Unit 26), Pompano Fine Sand, Frequently Ponded (Map Unit 27), Malabar Fine Sand (Map Unit 34), Valkaria Fine Sand, Frequently Ponded (Map Unit 41), Malabar Fine Sand, Frequently Ponded (Map Unit 44), Floridana Sand, Frequently Ponded (Map Unit 51), Pineda Fine Sand, Frequently Ponded (Map Unit 73). A soils map is attached as Exhibit No. 4.0. Soil pit data is included within the wetland delineation data forms, which were field reviewed on January 21, 2022. Hydric soil indicators S5 (Sandy Redox) and S6 (Stripped Matrix) were observed within the wetland area.

Hydrologic Indicators observed at or near the data point locations included hydric soil indicators S5 and S6 starting at the soil surface (Hydrologic Data), algal matting on ground surface, and 0.5 inches of adventitious rooting on melaleuca trees.

This Formal Determination of Wetlands and Other Surface Waters is the District's determination of the landward extent (boundaries) of wetlands and other surface waters within the property based on the documentation submitted by the Petitioner and field application of Chapter 62-340, F.A.C. This action does not authorize any construction activities or constitute conceptual approval of any anticipated projects or activities in wetlands or other surface waters. It does not in any way establish boundaries of sovereign submerged lands, high water elevations or other elevations/ boundaries.

Pursuant to Subsection 373.421 (4), F.S., the Governing Board may revoke the Formal Wetland Determination upon a finding that the Petitioner has submitted inaccurate information to the District.

The Formal Wetland Determination shall be binding for the stated duration provided physical conditions on the property do not change so as to alter the boundaries of wetlands and other surface waters during that period.

Distribution List

Jared Holes, Successor Trustee *

Jacob Taminosian, Passarella & Associates, Inc. *

Florida Department of Environmental Protection SLERC *

Lee County Property Appraiser *

Florida Department of Environmental Protection - Environmental Administrator *

Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's ePermitting website (http://my.sfwmd.gov/ePermitting) and searching under this application number 211115-32173 .

Exhibit No. 1.0 Location Map

Exhibit No. 2.0 Aerial With Inspection Boundary

Exhibit No. 3.0 Wetland and OSW Certified Survey

Exhibit No. 3.1 Aerial With Wetlands and OSW

Exhibit No. 4.0 Soils Map

NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day.

Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.
- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.

EXHIBIT B

OF ENVIRONMENTAL REPORTS
EXHIBITS – M12 & T7

ENVIRONMENTAL ASSESSMENT

DANIELS PARKWAY SOUTH
ENVIRONMENTAL ASSESSMENT

Revised May 2022

Prepared For:

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Project No. 19LLL3192

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INTRODUCTION

An environmental assessment was conducted on Daniels Parkway South (Project) to document existing land uses and vegetative cover; document the presence of state jurisdictional wetlands; research potential utilization by wildlife and plant species listed by the Florida Fish and Wildlife Conservation Commission (FWCC), the Florida Department of Agriculture and Consumer Services (FDACS), and the U.S. Fish and Wildlife Service (USFWS) as Threatened, Endangered, or Species of Special Concern; and document listed species utilization within the Project site. The assessment included field surveys to map vegetation communities, an office review of agency records for documented occurrences of listed species on the property, and field surveys to document listed species utilization within the Project. This report summarizes the results of the environmental assessment.

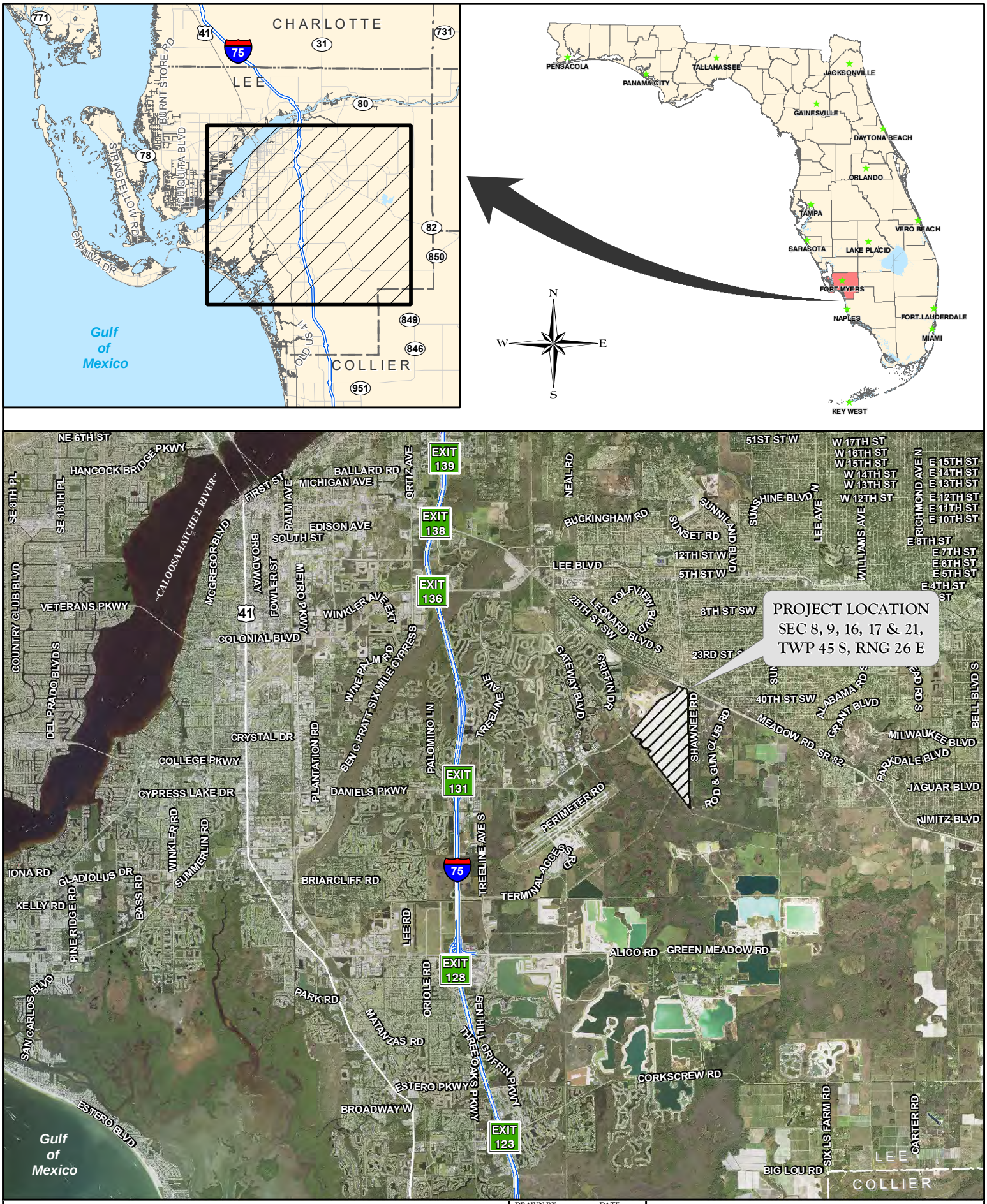
The Project totals 1,233.08± acres and is located in Sections 8, 9, 16, 17, and 21; Township 45 South; Range 26 East; Lee County (Figure 1). The site is bordered to the north by Daniels Parkway, to the east by single-family residential development and undeveloped land, to the west by a Florida Power & Light (FPL) transmission line and undeveloped land, and to the south by Lee County's Wild Turkey Strand Preserve. (Appendix A).

The property currently consists of indigenous and non-indigenous upland and wetland habitats, ditches, and pastures that are currently being utilized for cattle grazing.

LAND USES AND VEGETATION ASSOCIATIONS

Vegetation and land cover mapping for the Project was conducted using Lee County 2020 rectified aerials. Groundtruthing of the vegetative communities was conducted in January 2020 utilizing the Florida Land Use, Cover and Forms Classification System (FLUCFCS) Levels III (Florida Department of Transportation 1999). Level IV FLUCFCS was utilized to denote disturbance and hydrologic conditions. "E" codes were used to identify levels of exotic and invasive vegetation (e.g., Brazilian pepper (*Schinus terebinthifolia*), melaleuca (*Melaleuca quinquenervia*), West Indian marsh grass (*Hymenachne amplexicaulis*), Wright's nutrush (*Scleria lacustris*), and torpedograss (*Panicum repens*)). AutoCAD Map 3D 2021 software was used to determine the acreage of each mapping area, produce summaries, and generate the FLUCFCS and Wetlands Map for the Project (Appendix B). An aerial photograph of the property with an overlay of the FLUCFCS and wetlands is provided as Appendix C.

A total of 50 vegetative and land cover types (i.e., FLUCFCS codes) were identified within the Project site. The dominant land uses on the property are improved pasture and low pasture, which together occupy 501.72± acres or 40.7 percent of the site. Ditches, berms, a cow pond, and disturbed land associated with the agricultural uses occupy 94.23± acres or approximately 7.6 percent of the site. The site contains disturbed native wetland systems including mixed wetland hardwoods, hydric pine, and freshwater marsh. The site also contains non-native wetland habitats including low pasture, hydric melaleuca, and hydric disturbed land. The on-site wetland habitats have been disturbed by ditching, cattle grazing activities, and exotic infestation. A summary of



J:\2019\19LL3192\GIS\2021\Environmental_Assessment_Report\Appendix\Figure1_Project_Location_Map.mxd - 9/27/2021 @ 9:18:44 AM

FIGURE 1. PROJECT LOCATION MAP
DANIELS PARKWAY SOUTH

DRAWN BY	DATE
P.F.	6/28/21
REVIEWED BY	DATE
J.T.	6/28/21
REVISED	DATE

PASSARELLA & ASSOCIATES, INC
Consulting Ecologists

the FLUCFCS codes with acreage breakdown and description of each FLUCFCS is presented in Appendix D. The Project site contains mature pine flatwoods which is considered a rare and unique upland habitat type according to the Lee County Comprehensive Plan.

SOILS

The soils for the property, per the Natural Resource Conservation Service (formerly the Soil Conservation Service), are shown on Appendix E. A brief description for each soil type per the Soil Survey of Lee County, Florida (U.S. Department of Agriculture 1984 and 2020) is presented in Appendix F.

JURISDICTIONAL WETLANDS

The jurisdictional wetlands and "other surface waters" (OSWs) by FLUCFCS code are summarized in Table 1. South Florida Water Management District (SFWMD) jurisdictional wetlands constitute a total of 532.51± acres or 43.2 percent of the Project site. SFWMD jurisdictional OSWs constitute a total of 30.93± acres or 2.5 percent of the Project site. The wetlands and OSWs limits are per SFWMD formal wetland jurisdictional determination (Permit No. 36-107020-P) issued for the Project on May 9, 2022.

Table 1. SFWMD Wetland and OSW Acreages by FLUCFCS Code

FLUCFCS Code	Description	Acreage
262	Low Pasture	27.96
4241	Melaleuca, Hydric	133.24
4281 E3	Cabbage Palm, Hydric (50-75% Exotics)	11.15
514H	Ditch, Hydric	8.14
6179 E1	Mixed Wetland Hardwoods, Disturbed (0-24% Exotics)	30.69
6179 E2	Mixed Wetland Hardwoods, Disturbed (25-49% Exotics)	1.77
6179 E3	Mixed Wetland Hardwoods, Disturbed (50-75% Exotics)	1.48
6179 E4	Mixed Wetland Hardwoods, Disturbed (76-100% Exotics)	3.35
6219 E1	Cypress, Disturbed (0-24% Exotics)	17.46
6219 E2	Cypress, Disturbed (25-49% Exotics)	48.22
6219 E3	Cypress, Disturbed (50-75% Exotics)	11.9
6219 E4	Cypress, Disturbed (76-100% Exotics)	8.66
6259 E1	Pine, Hydric, Disturbed (0-24% Exotics)	1.37
6259 E2	Pine, Hydric, Disturbed (25-49% Exotics)	11.69
6259 E3	Pine, Hydric, Disturbed (50-75% Exotics)	25.38
6259 E4	Pine, Hydric, Disturbed (76-100% Exotics)	1.72
6319 E2	Wetland Shrub, Disturbed (25-49% Exotics)	5.63
6419 E1	Freshwater Marsh, Disturbed (0-24% Exotics)	15.59
6419 E2	Freshwater Marsh, Disturbed (25-49% Exotics)	2.67
6419 E3	Freshwater Marsh, Disturbed (50-75% Exotics)	17.65

Table 1. (Continued)

FLUCFCS Code	Description	Acreage
6419 E4	Freshwater Marsh, Disturbed (76-100% Exotics)	126.88
6439 E3	Wet Prairies, Disturbed (50-75% Exotics)	7.24
6439 E4	Wet Prairies, Disturbed (76-100% Exotics)	3.37
7401	Disturbed Land, Hydric	9.30
Wetlands Total		**532.51**
OSWs		
514	Ditch	30.71
525	Cow Pond	0.22
OSWs Total		**30.93**

The prominent wetland features consist of freshwater marshes and melaleuca infested wetlands found throughout the Project site. A U.S. Geological Survey Quadrangle Map is provided as Appendix G. This map shows the location of some of the wetland systems within the Project.

LISTED SPECIES

Listed wildlife species as listed by the FWCC and the USFWS that have the potential to occur on the Project site are listed in Table 2 (FWCC 2021 and USFWS 1999). Listed plant species as listed by the FDACS and the USFWS (FDACS Chapter 5B-40) that have the potential to occur on the Project site are listed in Table 3. Information used in assessing the potential occurrence of these species included the Lee County Land Development Code, Field Guide to the Rare Plants of Florida (Chafin 2000), Atlas of Florida Vascular Plants (Wunderlin 2004), and professional experience and knowledge of the geographic region. In addition, FWCC and USFWS records for documented listed species were reviewed for listed species records on or adjacent to the property (Appendix H).

Table 2. Listed Wildlife Species That Could Potentially Occur within the Project

Common Name	Scientific Name	Designated Status		Potential Habitats (FLUCFCS Code)
		FWCC	USFWS	
Amphibians and Reptiles				
American alligator	*Alligator mississippiensis*	FT(S/A)	FT(S/A)	262, 514, 514H, 525, 6219, 6419, 7401
Eastern indigo snake	*Drymarchon corais couperi*	FT	FT	3219, 4119, 4159, 4279, 4281
Gopher frog	*Lithobates capito*	**	-	3219, 4119, 4159, 4349, 6219
Gopher tortoise	*Gopherus polyphemus*	ST	*	211, 3219, 4119, 4159, 4279, 4349, 740, 743, 747

Table 2. (Continued)

Common Name	Scientific Name	Designated Status		Potential Habitats (FLUCFCS Code)
		FWCC	USFWS	
Birds				
Crested caracara	*Caracara cheriway*	FT	FT	211, 3219, 4281, 747
Everglade snail kite	*Rostrhamus sociabilis plumbeus*	FE	FE	262, 514, 514H, 525, 6419, 6439
Florida burrowing owl	*Athene cunicularia floridana*	ST	-	211, 740
Florida sandhill crane	*Grus canadensis pratensis*	ST	-	211, 262, 3219, 6419
Little blue heron	*Egretta caerulea*	ST	-	262, 4241, 514, 514H, 525, 6179, 6219, 6259, 6319, 6419, 6439, 7401
Red-cockaded woodpecker	*Picoides borealis*	FE	FE	4119, 4159, 6259
Roseate spoonbill	*Platalea ajaja*	ST	-	262, 514, 514H, 525, 6419, 6439
Southeastern American kestrel	*Falco sparverius paulus*	ST	-	3219, 4119, 4159, 6259
Snowy Egret	*Egretta thula*	**	-	262, 4241, 514, 514H, 525, 6179, 6219, 6259, 6319, 6419, 6439, 7401
Tri-colored heron	*Egretta tricolor*	ST	-	262, 4241, 514, 514H, 525, 6179, 6219, 6259, 6319, 6419, 6439, 7401
Wood stork	*Mycteria americana*	FT	FT	262, 514, 514H, 525, 6219, 6319, 6419, 6439, 7401
Mammals				
Big Cypress fox squirrel	*Sciurus niger avicennia*	ST	-	4119, 4159, 424, 4241, 4279, 4349, 4389, 6179, 6219, 6259, 747
Florida black bear	*Ursus americanus floridanus*	**	-	3219, 4119, 4159, 422, 4279, 4281, 4349, 4389, 6179, 6219, 6259, 6319
Florida bonneted bat	*Eumops floridanus*	FE	FE	4119, 4159, 6259
Florida panther	*Puma concolor coryi*	FE	FE	3219, 4119, 4159, 4279, 4281, 4349, 4389, 6179, 6219, 6319, 6259, 6419

FWCC – Florida Fish and Wildlife Conservation Commission
USFWS – U.S. Fish and Wildlife Service
FE – Federally Endangered
FT – Federally Threatened
FT(S/A) – Federally Threatened Due to Similarity of Appearance
ST – State Threatened
*The gopher tortoise is currently listed as a candidate species by the USFWS.
**No longer listed by the FWCC; however, certain protection measures still apply.

Table 3. Listed Plant Species That Could Potentially Occur within the Project

Common name	Scientific Name	Designated Status		Potential Location (FLUCFCS Code)
		FDACS	USFWS	
Cardinal airplant	*Tillandsia fasciculata*	E	-	4119, 4159, 4349, 6179
Giant wild pine	*Tillandsia utriculata*	E	-	4119, 4159, 4349, 6179
Twisted airplant	*Tillandsia flexuosa*	T	-	4119, 4159, 4349, 4279, 6179
Curtiss' milkweed	*Asclepias curtissii*	E	-	3219
Fakahatchee burmannia	*Burmannia flava*	E	-	3219, 4119
Hand-adder's tongue fern	*Ophioglossum palmatum*	E	-	4279
Butterfly orchid	*Encyclia tampensis*	CE	-	4119, 4159, 4349, 6179
Satinleaf	*Chrysophyllum olivaeforme*	T	-	4119
Simpson's stopper	*Myrcianthes fragrans* var. *simpsonii*	T	-	4279, 4281
Florida coontie	*Zamia floridana*	CE	-	3219, 4119
Beautiful pawpaw	*Deeringothamnus pulchellus*	E	E	3219, 4119

FDACS – Florida Department of Agriculture and Consumer Services
USFWS – U.S. Fish and Wildlife Service
CE – Commercially Exploited
E – Endangered
T – Threatened

American Alligator (*Alligator mississippiensis*)
The American alligator could potentially occur within the ditches, open water habitats, and wetlands within the site.

Eastern Indigo Snake (*Drymarchon corais couperi*)
The Eastern indigo snake could potentially occur within the pastures and native uplands on the Project site. The Eastern indigo snake is typically found in association with populations of gopher tortoise (*Gopherus polyphemus*).

Gopher Tortoise (*Gopherus polyphemus*)
Potential habitat for gopher tortoises on the Project site includes pasture areas, upland pine (*Pinus* sp.) forest, palmetto prairies, hardwood habitats, disturbed lands, spoil areas, and berms.

Crested Caracara (*Caracara cheriway*)
Potential foraging habitat for the crested caracara on the Project site includes pasture areas and palmetto prairies. Its primary habitat in Florida is the native prairie with associated marshes, cabbage palm (*Sabal palmetto*), and cabbage palm/live oak (*Quercus virginiana*) hammocks (Rodgers *et al.* 1996).

Everglade Snail Kite (*Rostrhamus sociabilis plumbeus*)
Potential foraging habitat for the Everglade snail kite includes ditches, low pastures, freshwater marshes, and wet prairies on the Project site.

Florida Burrowing Owl (*Athene cunicularia floridana*)
Potential burrowing owl habitat exists within the improved pasture and disturbed land on the Project site.

Florida Sandhill Crane (*Grus canadensis pratensis*)
Potential foraging habitat for the Florida sandhill crane may exist within the Project's improved pastures, low pasture, palmetto prairies, freshwater marshes, wet prairies, and hydric disturbed lands. Preferred sandhill crane habitat includes prairies and shallow marshes dominated by pickerelweed (*Pontederia cordata*) and maidencane (*Panicum hemitomon*).

Little Blue Heron (*Egretta caerulea*) and Tri-Colored Heron (*Egretta tricolor*)
Potential foraging habitat for state-listed wading birds within the Project site includes the forested and herbaceous wetlands, ditches, and low pasture.

Red-Cockaded Woodpecker (*Picoides borealis*)
Potential habitat for the red-cockaded woodpecker on the Project site includes the pine flatwoods, pine, and hydric pine habitats.

Roseate Spoonbill (*Ajaia ajaja*)
Potential habitat for the roseate spoonbill on the Project site includes freshwater marsh habitats, ditches, and low pasture.

Southeastern American Kestrel (*Falco sparverius paulus*)
Potential foraging habitat for the Southeastern American kestrel on the Project site may exist within the palmetto prairies, pine flatwoods, pine, and disturbed lands. Since 1980, observations of Southeastern American kestrel in Florida have occurred primarily in sandhill or sand pine (Pinus clausa) scrub areas of North and Central Florida (Rodgers *et al.* 1996).

Wood Stork (*Mycteria americana*)
Potential wood stork foraging habitat within the Project site includes forested and herbaceous wetlands, hydric disturbed land, and ditches. Almost any wetland depression where fish tend to become concentrated, either through local reproduction by fishes or as a consequence of area drying, may be good for feeding habitat (Rodgers *et al*. 1996).

Big Cypress Fox Squirrel (*Sciurus niger avicennia*)
Potential nesting and foraging habitat for the Big Cypress fox squirrel includes the pine flatwoods, pine, hydric pine, hardwood/conifer, mixed wetland hardwoods, and hydric melaleuca. Dense interiors of mixed cypress-hardwood strands seem to be avoided by fox squirrels (Moler 1992).

Florida Black Bear (*Ursus americanus floridanus*)
Potential habitat for the Florida black bear includes the native upland and wetland forested habitats on the Project site. The USFWS and FWCC have documented occurrences of Florida black bear to the north (across State Road (SR) 82) of the Project site.

Florida Bonneted Bat (*Eumops floridanus*)
Florida bonneted bats could potentially roost within the forested upland and wetland habitats on the Project site, and/or forage over the herbaceous wetlands. The Florida bonneted bat is known to occur in cities and forested areas on both the east and west coasts of South Florida from Charlotte County to Palm Beach County (Marks and Marks 2006; Humphrey 1992).

Florida Panther (*Puma concolor coryi*)
Portions of the Project are located within the Florida panther primary and secondary zones (Kautz *et al.* 2006). Twelve telemetry points from radio-collared panthers have been recorded by the FWCC on the property (Appendix H). The Florida panther telemetry points are primarily found in the southern portion of the proposed site which will be restored and preserved. These telemetry points are from Florida Panther (FP) Nos. 257 and 173. According to the FWCC's Annual Report on the Research and Management of Florida Panthers (FWCC 2020), FP 257 is an adult female that has been documented 11 times on the Project site between March 2019 and January 2020 with a use area that includes the Lee County Port Authority Mitigation Area. FP 173 was an adult male last documented on the Project site in September 2010 and reported as dead in December 2010 as a result of pseudorabies.

A Lee County protected species survey was conducted on the Project site for ten days between May 11 and June 24, 2021. A total of one gopher tortoise, two crested caracara, one Florida sandhill crane, five wood storks, six Big Cypress fox squirrel, and Florida panther tracks were observed on the Project site during the protected species survey. The gopher tortoise, Florida sandhill crane, and Big Cypress fox squirrel are listed as threatened by the FWCC (2021). The crested caracara and wood stork are listed as federally threatened by the FWCC and the USFWS. The Florida panther is listed as federally endangered by the FWCC and the USFWS. A crested caracara nest was previously documented in the northern portion of the property. This nest was active during the 2020-2021 caracara nesting season. No other listed species nests or nesting activity were observed on the Project during the protected species survey. A summary of the listed wildlife species and their sign (i.e., tracks, nests) documented within the Project are provided in Table 4. The locations of the observed listed species and their sign are depicted in Appendix I.

Table 4. Listed Wildlife Species Observed

Common Name	Scientific Name	Designated Status		Observed Location (FLUCFCS Code)
		FWCC	USFWS	
Birds				
Crested caracara	*Caracara cheriway*	FT	FT	747
Crested caracara nest	*Caracara cheriway*	FT	FT	211
Florida sandhill crane	*Grus canadensis pratensis*	ST	-	211
Wood stork	*Mycteria americana*	FT	FT	6419 E3

Table 4. (Continued)

Common Name	Scientific Name	Designated Status		Observed Location (FLUCFCS Code)
		FWCC	USFWS	
Reptiles				
Gopher tortoise	*Gopherus polyphemus*	ST	*	4119 E1
Mammals				
Big Cypress fox squirrel	*Sciurus niger avicennia*	ST	-	4119 E1, 4241, 4349 E1, 6179 E1
Florida panther (tracks)	*Puma concolor coryi*	FE	FE	6419 E4

FWCC – Florida Fish and Wildlife Conservation Commission
USFWS – U.S. Fish and Wildlife Service
FT – Federally Threatened
FE – Federally Endangered
ST – State Threatened
*The gopher tortoise is currently listed as a candidate species by the USFWS.

No Lee County protected plant species were observed on the property during the protected species survey. However, the giant wild pine (*Tillandsia utriculata*), common wild pine (*Tillandsia fasciculata*), Northern needleleaf (*Tillandsia balbisiana*), butterfly orchid (*Encyclia tampensis*), and rigid orchid (*Epidendrum rigidum*) were documented on the site. Although not listed as Lee County protected species, the giant wild pine, common wild pine, and rigid orchid are listed as endangered by the FDACS. The Northern needleleaf and butterfly orchid are listed by FDACS as threatened and commercially exploited, respectively. A summary of the listed plant species documented within the Project are provided in Table 5. The locations of the listed plant species observed are depicted on Appendix I.

Table 5. Listed Plant Species Observed

Common Name	Scientific Name	Designated Status		Observed Location (FLUCFCS Code)
		FDACS	USFWS	
Giant wild pine	*Tillandsia utriculata*	E	-	4159 E1, 4159 E2, 4241
Common wild pine	*Tillandsia fasciculata*	E	-	6219 E1, 6219 E2, 6219 E3
Northern needleleaf	*Tillandsia balbisiana*	CE	-	6219 E1, 6219 E2
Butterfly orchid	*Encyclia tampensis*	CE	-	6219 E2, 6319 E2
Rigid orchid	*Epidendrum rigidum*	E	-	6219 E2

FDACS – Florida Department of Agriculture and Consumer Services
USFWS – U.S. Fish and Wildlife Service
E – Endangered
CE – Commercially Exploited

SUMMARY

A total of 50 vegetative and land cover types (i.e., FLUCFCS codes) were identified within the Project site. SFWMD jurisdictional wetlands constitute a total of 532.51± acres or 43.2 percent of the Project site. SFWMD jurisdictional OSWs constitute a total of 30.93± acres or 2.5 percent of the Project site. The Project site contains mature pine flatwoods which is considered a rare and unique upland habitat type according to the Lee County Comprehensive Plan.

FWCC and USFWS listed species occurrence records show 12 Florida panther telemetry points on the Project site. The telemetry points are primarily located on the southern portion of the Project site. FWCC and USFWS records also show documented occurrences of Florida black bear to the north (across SR 82) of the Project site.

A Lee County protected species survey was conducted on the Project site between May 11 and June 24, 2021. Listed species were also documented during other fieldwork conducted on the Project. A total of one gopher tortoise, two crested caracara, one Florida sandhill crane, five wood storks, six Big Cypress fox squirrel, and Florida panther tracks were observed on the Project site during the protected species survey and other fieldwork. The gopher tortoise, Florida sandhill crane, and Big Cypress fox squirrel are listed as threatened by the FWCC (2021). The crested caracara and wood stork are listed as federally threatened by FWCC and USFWS. The Florida panther is listed as federally endangered by FWCC and USFWS. A crested caracara nest was previously documented in the northern portion of the property. This nest was active during the 2020-2021 caracara nesting season.

No Lee County protected plant species were observed on the property during the protected species survey. However, the giant wild pine, common wild pine, Northern needleleaf, butterfly orchid, and rigid orchid were documented on the site. Although not listed as Lee County protected species, the giant wild pine, common wild pine, and rigid orchid are listed as endangered by the FDACS. The Northern needleleaf and butterfly orchid are listed by FDACS as threatened and commercially exploited, respectively.

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APPENDIX A

AERIAL WITH BOUNDARY



LEGEND

DANIELS PARKWAY SOUTH

0 1,000 2,000

Feet

NOTES:

AERIAL PHOTOGRAPHS WERE ACQUIRED THROUGH THE LEE COUNTY PROPERTY APPRAISER'S OFFICE WITH A FLIGHT DATE OF JANUARY MAY 2020.

PROPERTY BOUNDARY PER MORRIS-DEPEW DRAWING No. 21008 - WETLAND FLAG LOCATION-CLIENT.DWG DATED JUNE 16, 2021.

DRAWN BY	DATE
P.F.	6/28/21
REVIEWED BY	DATE
C.R.	6/28/21
REVISED	DATE

13620 Metropolis Avenue
Suite 200
Fort Myers, Florida 33912
Phone (239) 274-0067
Fax (239) 274-0069

PASSARELLA & ASSOCIATES INC
Consulting Ecologists

DANIELS PARKWAY SOUTH

AERIAL WITH BOUNDARY

DRAWING No. 19LLL3192

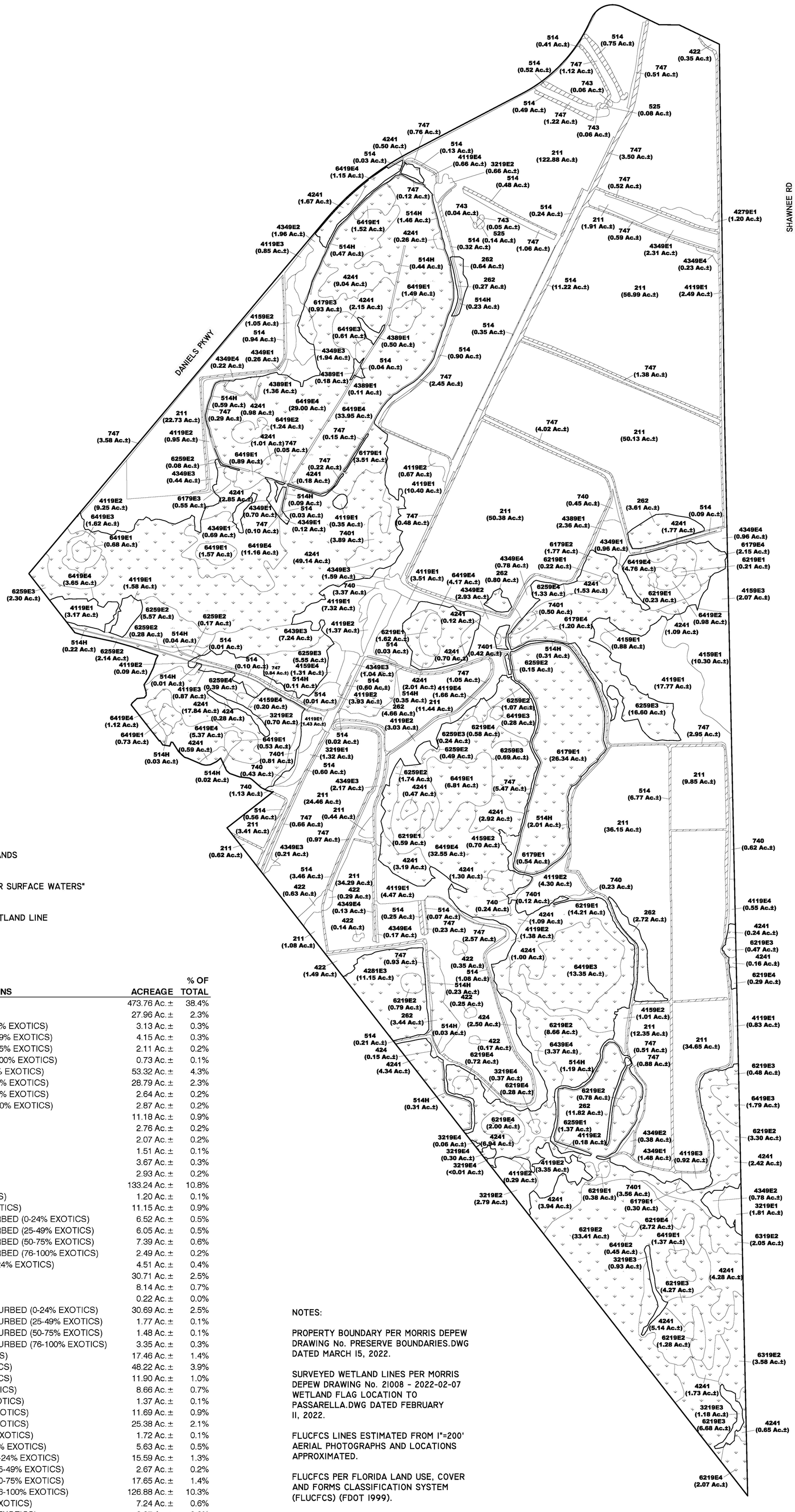
SHEET No. APPENDIX A

J:\2019\19LLL3192\GIS\2021\Environmental_Assessment_Report\Appendix\Appendix_A_Aerial_with_Boundary.mxd - 9/27/2021 @ 9:23:25 AM

APPENDIX B

FLUCFCS AND WETLANDS MAP

SCALE: 1" = 500'



LEGEND:

SFWMD WETLANDS (532.51 Ac.±)

SFWMD "OTHER SURFACE WATERS" (30.93 Ac.±)

SURVEYED WETLAND LINE

FLUCFCS CODES	DESCRIPTIONS	ACREAGE	% OF TOTAL
211	IMPROVED PASTURE	473.76 Ac.±	38.4%
262	LOW PASTURE	27.96 Ac.±	2.3%
3219 E1	PALMETTO PRAIRIE, DISTURBED (0-24% EXOTICS)	3.13 Ac.±	0.3%
3219 E2	PALMETTO PRAIRIE, DISTURBED (25-49% EXOTICS)	4.15 Ac.±	0.3%
3219 E3	PALMETTO PRAIRIE, DISTURBED (50-75% EXOTICS)	2.11 Ac.±	0.2%
3219 E4	PALMETTO PRAIRIE, DISTURBED (76-100% EXOTICS)	0.73 Ac.±	0.1%
4119 E1	PINE FLATWOODS, DISTURBED (0-24% EXOTICS)	53.32 Ac.±	4.3%
4119 E2	PINE FLATWOODS, DISTURBED (25-49% EXOTICS)	28.79 Ac.±	2.3%
4119 E3	PINE FLATWOODS, DISTURBED (50-75% EXOTICS)	2.64 Ac.±	0.2%
4119 E4	PINE FLATWOODS, DISTURBED (76-100% EXOTICS)	2.87 Ac.±	0.2%
4159 E1	PINE, DISTURBED (0-24% EXOTICS)	11.18 Ac.±	0.9%
4159 E2	PINE, DISTURBED (25-49% EXOTICS)	2.76 Ac.±	0.2%
4159 E3	PINE, DISTURBED (50-75% EXOTICS)	2.07 Ac.±	0.2%
4159 E4	PINE, DISTURBED (76-100% EXOTICS)	1.51 Ac.±	0.1%
422	BRAZILIAN PEPPER	3.67 Ac.±	0.3%
424	MELALEUCA	2.93 Ac.±	0.2%
4241	MELALEUCA, HYDRIC	133.24 Ac.±	10.8%
4279 E1	LIVE OAK, DISTURBED (0-24% EXOTICS)	1.20 Ac.±	0.1%
4281 E3	CABBAGE PALM, HYDRIC (50-75% EXOTICS)	11.15 Ac.±	0.9%
4349 E1	HARDWOOD/CONIFER MIXED, DISTURBED (0-24% EXOTICS)	6.52 Ac.±	0.5%
4349 E2	HARDWOOD/CONIFER MIXED, DISTURBED (25-49% EXOTICS)	6.05 Ac.±	0.5%
4349 E3	HARDWOOD/CONIFER MIXED, DISTURBED (50-75% EXOTICS)	7.39 Ac.±	0.6%
4349 E4	HARDWOOD/CONIFER MIXED, DISTURBED (76-100% EXOTICS)	2.49 Ac.±	0.2%
4389 E1	MIXED HARDWOODS, DISTURBED (0-24% EXOTICS)	4.51 Ac.±	0.4%
514	DITCH	30.71 Ac.±	2.5%
514 H	DITCH, HYDRIC	8.14 Ac.±	0.7%
525	COW POND	0.22 Ac.±	0.0%
6179 E1	MIXED WETLAND HARDWOODS, DISTURBED (0-24% EXOTICS)	30.69 Ac.±	2.5%
6179 E2	MIXED WETLAND HARDWOODS, DISTURBED (25-49% EXOTICS)	1.77 Ac.±	0.1%
6179 E3	MIXED WETLAND HARDWOODS, DISTURBED (50-75% EXOTICS)	1.48 Ac.±	0.1%
6179 E4	MIXED WETLAND HARDWOODS, DISTURBED (76-100% EXOTICS)	3.35 Ac.±	0.3%
6219 E1	CYPRESS, DISTURBED (0-24% EXOTICS)	17.46 Ac.±	1.4%
6219 E2	CYPRESS, DISTURBED (25-49% EXOTICS)	48.22 Ac.±	3.9%
6219 E3	CYPRESS, DISTURBED (50-75% EXOTICS)	11.90 Ac.±	1.0%
6219 E4	CYPRESS, DISTURBED (76-100% EXOTICS)	8.66 Ac.±	0.7%
6259 E1	PINE, HYDRIC, DISTURBED (0-24% EXOTICS)	1.37 Ac.±	0.1%
6259 E2	PINE, HYDRIC, DISTURBED (25-49% EXOTICS)	11.69 Ac.±	0.9%
6259 E3	PINE, HYDRIC, DISTURBED (50-75% EXOTICS)	25.38 Ac.±	2.1%
6259 E4	PINE, HYDRIC, DISTURBED (76-100% EXOTICS)	1.72 Ac.±	0.1%
6319 E2	WETLAND SHRUB, DISTURBED (25-49% EXOTICS)	5.63 Ac.±	0.5%
6419 E1	FRESHWATER MARSH, DISTURBED (0-24% EXOTICS)	15.59 Ac.±	1.3%
6419 E2	FRESHWATER MARSH, DISTURBED (25-49% EXOTICS)	2.67 Ac.±	0.2%
6419 E3	FRESHWATER MARSH, DISTURBED (50-75% EXOTICS)	17.65 Ac.±	1.4%
6419 E4	FRESHWATER MARSH, DISTURBED (76-100% EXOTICS)	126.88 Ac.±	10.3%
6439 E3	WET PRAIRIES, DISTURBED (50-75% EXOTICS)	7.24 Ac.±	0.6%
6439 E4	WET PRAIRIES, DISTURBED (76-100% EXOTICS)	3.37 Ac.±	0.3%
740	DISTURBED LAND	6.47 Ac.±	0.5%
7401	DISTURBED LAND, HYDRIC	9.30 Ac.±	0.8%
743	SPOIL AREA	0.21 Ac.±	0.0%
747	BERM	39.18 Ac.±	3.2%
	TOTAL	**1233.08 Ac.±**	**100.0%**

NOTES:

PROPERTY BOUNDARY PER MORRIS DEPEW DRAWING No. PRESERVE BOUNDARIES.DWG DATED MARCH 15, 2022.

SURVEYED WETLAND LINES PER MORRIS DEPEW DRAWING No. 21008 - 2022-02-07 WETLAND FLAG LOCATION TO PASSARELLA.DWG DATED FEBRUARY 11, 2022.

FLUCFCS LINES ESTIMATED FROM 1"=200' AERIAL PHOTOGRAPHS AND LOCATIONS APPROXIMATED.

FLUCFCS PER FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCFCS) (FDOT 1999).

SFWMD WETLANDS AND OSW LINES PER FORMAL WETLAND JURISDICTIONAL DETERMINATION No. 36-107020-P ISSUED ON MAY 9, 2022.

J:\2019\19LLL3192\2021\ENVIRONMENTAL ASSESSMENT FOR COMP PLAN\APPENDIX B FLUCFCS AND WETLANDS MAP 032222.DWG TAB: 500 SCALE MAY 25, 2022 - 11:58AM PLOTTED BY: THONE

DRAWN BY	P.F./T.S.
DATE	3/22/22
DESIGNED BY	J.T./B.T.
DATE	3/22/22
REVISED	
DATE	

13620 Metropolis Avenue
Suite 200
Ft. Myers, FL 33912
Phone (239) 274-0067
Fax (239) 274-0069

PASSARELLA & ASSOCIATES INC
Consulting Ecologists

DANIELS PARKWAY SOUTH

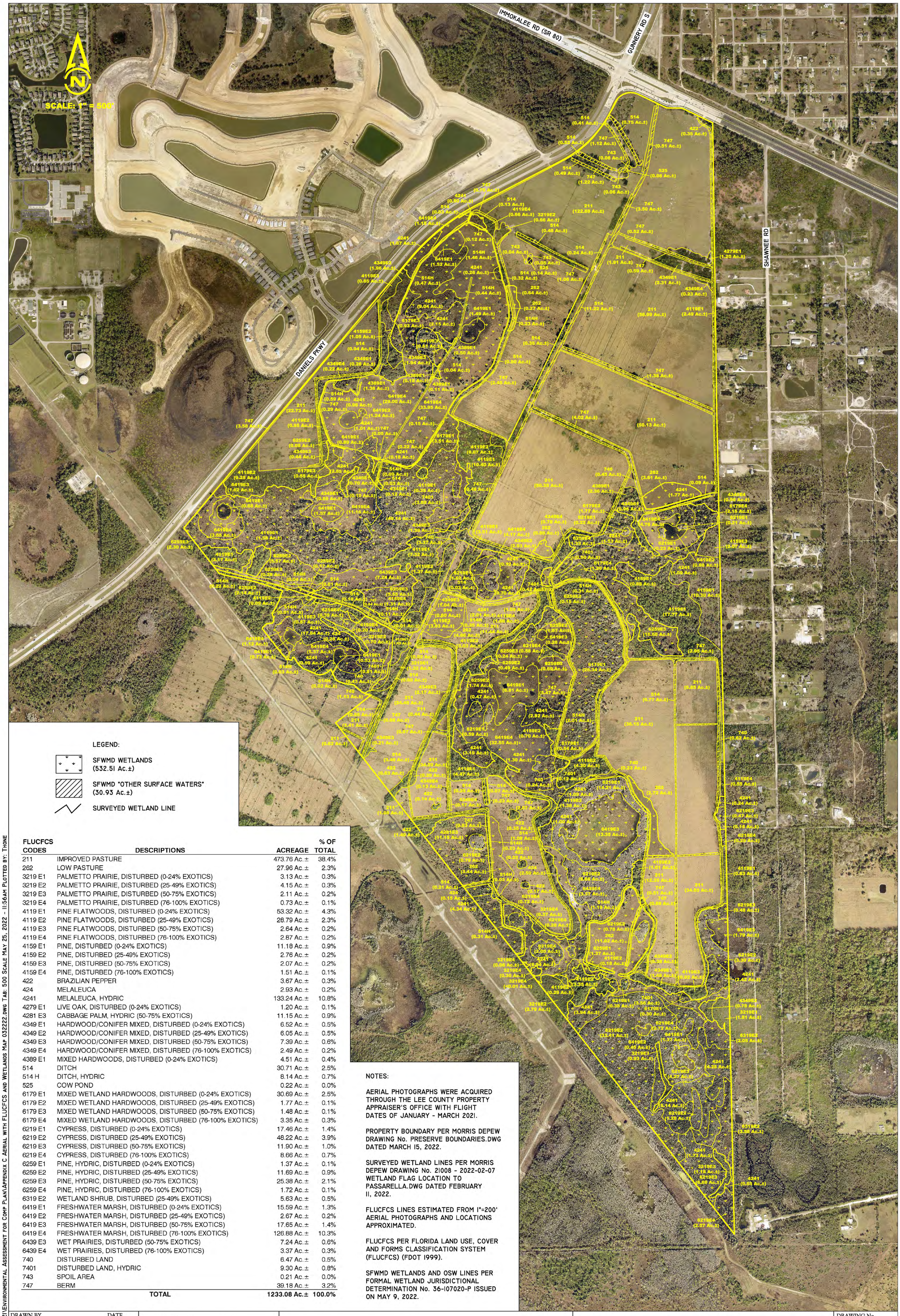
FLUCFCS AND WETLANDS MAP

DRAWING No. 19lll3192

SHEET No. APPENDIX B

APPENDIX C

AERIAL WITH FLUCFCS AND WETLANDS MAP



LEGEND:

SFWMD WETLANDS (532.51 Ac.±)

SFWMD "OTHER SURFACE WATERS" (30.93 Ac.±)

SURVEYED WETLAND LINE

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3219 E3	PALMETTO PRAIRIE, DISTURBED (50-75% EXOTICS)	2.11 Ac.±	0.2%
3219 E4	PALMETTO PRAIRIE, DISTURBED (76-100% EXOTICS)	0.73 Ac.±	0.1%
4119 E1	PINE FLATWOODS, DISTURBED (0-24% EXOTICS)	53.32 Ac.±	4.3%
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4349 E3	HARDWOOD/CONIFER MIXED, DISTURBED (50-75% EXOTICS)	7.39 Ac.±	0.6%
4349 E4	HARDWOOD/CONIFER MIXED, DISTURBED (76-100% EXOTICS)	2.49 Ac.±	0.2%
4389 E1	MIXED HARDWOODS, DISTURBED (0-24% EXOTICS)	4.51 Ac.±	0.4%
514	DITCH	30.71 Ac.±	2.5%
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6179 E3	MIXED WETLAND HARDWOODS, DISTURBED (50-75% EXOTICS)	1.48 Ac.±	0.1%
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743	SPOIL AREA	0.21 Ac.±	0.0%
747	BERM	39.18 Ac.±	3.2%
	TOTAL	**1233.08 Ac.±**	**100.0%**

NOTES:

AERIAL PHOTOGRAPHS WERE ACQUIRED THROUGH THE LEE COUNTY PROPERTY APPRAISER'S OFFICE WITH FLIGHT DATES OF JANUARY - MARCH 2021.

PROPERTY BOUNDARY PER MORRIS DEPEW DRAWING No. PRESERVE BOUNDARIES.DWG DATED MARCH 15, 2022.

SURVEYED WETLAND LINES PER MORRIS DEPEW DRAWING No. 21008 - 2022-02-07 WETLAND FLAG LOCATION TO PASSARELLA.DWG DATED FEBRUARY 11, 2022.

FLUCFCS LINES ESTIMATED FROM 1"=200' AERIAL PHOTOGRAPHS AND LOCATIONS APPROXIMATED.

FLUCFCS PER FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCFCS) (FDOT 1999).

SFWMD WETLANDS AND OSW LINES PER FORMAL WETLAND JURISDICTIONAL DETERMINATION No. 36-107020-P ISSUED ON MAY 9, 2022.

J:\2019\19LL3192\2021\Environmental Assessment for Comp Plan\Appendix C Aerial with FLUCFCS and Wetlands Map 032222.dwg Tab: 500 Scale May 25, 2022 - 11:56am Plotted by: Thone

DRAWN BY	DATE
P.F./T.S.	3/22/22
DESIGNED BY	DATE
J.T./B.T.	3/22/22
REVISED	DATE

13620 Metropolis Avenue
Suite 200
Ft. Myers, FL 33912
Phone (239) 274-0067
Fax (239) 274-0069

Passarella & Associates Inc
Consulting Ecologists

DANIELS PARKWAY SOUTH

AERIAL WITH FLUCFCS AND WETLANDS MAP

DRAWING No. 19lll3192

SHEET No. APPENDIX C

APPENDIX D

EXISTING LAND USE AND COVER SUMMARY TABLE AND FLUCFCS DESCRIPTIONS

DANIELS PARKWAY SOUTH
EXISTING LAND USE AND COVER SUMMARY TABLE
AND FLUCFCS DESCRIPTIONS

Table 1 provides a summary and an acreage breakdown of the existing land use and habitat cover types (i.e., Florida Land Use, Cover, and Forms Classification System (FLUCFCS) codes) found on the Daniels Road South parcel (Project), while a description of each of the FLUCFCS classifications follows.

Table 1. Existing Land Use and Cover Summary

FLUCFCS Code	Description	Acreage	Percent Total
211	Improved Pasture	473.76	38.4
262	Low Pasture	27.96	2.3
3219 E1	Palmetto Prairie, Disturbed (0-24% Exotics)	3.13	0.3
3219 E2	Palmetto Prairie, Disturbed (25-49% Exotics)	4.15	0.3
3219 E3	Palmetto Prairie, Disturbed (50-75% Exotics)	2.11	0.2
3219 E4	Palmetto Prairie, Disturbed (76-100% Exotics)	0.73	0.1
4119 E1	Pine Flatwoods, Disturbed (0-24% Exotics)	53.32	4.3
4119 E2	Pine Flatwoods, Disturbed (25-49% Exotics)	28.79	2.3
4119 E3	Pine Flatwoods, Disturbed (50-75% Exotics)	2.64	0.2
4119 E4	Pine Flatwoods, Disturbed (76-100% Exotics)	2.87	0.2
4159 E1	Pine, Disturbed (0-24% Exotics)	11.18	0.9
4159 E2	Pine, Disturbed (25-49% Exotics)	2.76	0.2
4159 E3	Pine, Disturbed (50-75% Exotics)	2.07	0.2
4159 E4	Pine, Disturbed (76-100% Exotics)	1.51	0.1
422	Brazilian Pepper	3.67	0.3
424	Melaleuca	2.93	0.2
4241	Melaleuca, Hydric	133.24	10.8
4279 E1	Live Oak, Disturbed (0-24% Exotics)	1.20	0.1
4281 E3	Cabbage Palm, Hydric (50-75% Exotics)	11.15	0.9
4349 E1	Hardwood/Conifer Mixed, Disturbed (0-24% Exotics)	6.52	0.5
4349 E2	Hardwood/Conifer Mixed, Disturbed (25-49% Exotics)	6.05	0.5
4349 E3	Hardwood/Conifer Mixed, Disturbed (50-75% Exotics)	7.39	0.6
4349 E4	Hardwood/Conifer Mixed, Disturbed (76-100% Exotics)	2.49	0.2
4389 E1	Mixed Hardwoods, Disturbed (0-24% Exotics)	4.51	0.4
514	Ditch	30.71	2.5
514 H	Ditch, Hydric	8.14	0.7
525	Cow Pond	0.22	< 0.1
6179 E1	Mixed Wetland Hardwoods, Disturbed (0-24% Exotics)	30.69	2.5
6179 E2	Mixed Wetland Hardwoods, Disturbed (25-49% Exotics)	1.77	0.1
6179 E3	Mixed Wetland Hardwoods, Disturbed (50-75% Exotics)	1.48	0.1

Table 1. (Continued)

FLUCFCS Code	Description	Acreage	Percent Total
6179 E4	Mixed Wetland Hardwoods, Disturbed (76-100% Exotics)	3.35	0.3
6219 E1	Cypress, Disturbed (0-24% Exotics)	17.46	1.4
6219 E2	Cypress, Disturbed (25-49% Exotics)	48.22	3.9
6219 E3	Cypress, Disturbed (50-75% Exotics)	11.90	1.0
6219 E4	Cypress, Disturbed (76-100% Exotics)	8.66	0.7
6259 E1	Pine, Hydric, Disturbed (0-24% Exotics)	1.37	0.1
6259 E2	Pine, Hydric, Disturbed (25-49% Exotics)	11.69	0.9
6259 E3	Pine, Hydric, Disturbed (50-75% Exotics)	25.38	2.1
6259 E4	Pine, Hydric, Disturbed (76-100% Exotics)	1.72	0.1
6319 E2	Wetland Shrub, Disturbed (25-49% Exotics)	5.63	0.5
6419 E1	Freshwater Marsh, Disturbed (0-24% Exotics)	15.59	1.3
6419 E2	Freshwater Marsh, Disturbed (25-49% Exotics)	2.67	0.2
6419 E3	Freshwater Marsh, Disturbed (50-75% Exotics)	17.65	1.4
6419 E4	Freshwater Marsh, Disturbed (76-100% Exotics)	126.88	10.3
6439 E3	Wet Prairies, Disturbed (50-75% Exotics)	7.24	0.6
6439 E4	Wet Prairies, Disturbed (76-100% Exotics)	3.37	0.3
740	Disturbed Land	6.47	0.5
7401	Disturbed Land, Hydric	9.30	0.8
743	Spoil Area	0.21	< 0.1
747	Berm	39.18	3.2
Total		**1,233.08**	**100.0**

Improved Pasture (FLUCFCS Code 211)

The canopy of this land use type is primarily open with scattered cabbage palm (*Sabal palmetto*) and melaleuca (*Melaleuca quinquenervia*). The sub-canopy contains scattered wax myrtle (*Morella cerifera*), live oak (*Quercus virginiana*), cabbage palm, and Brazilian pepper (*Schinus terebinthifolia*). The ground cover consists of bahiagrass (*Paspalum notatum*), carpetgrass (*Axonopus* sp.), broomsedge (*Andropogon virginicus*), dog fennel (*Eupatorium capillifolium*), grass-leaved goldenrod (*Euthamia graminifolia*), bermudagrass (*Cynodon dactylon*), and tropical soda apple (*Solanum viarum*).

Low Pasture (FLUCFCS Code 262)

The canopy and sub-canopy of this land use type are open. The ground cover includes torpedograss (*Panicum repens*), witchgrass (*Dichanthelium* sp.), dog fennel, marsh pennywort (*Hydrocotyle umbellata*), Wright's nutrush (*Scleria lacustris*), yellow-eyed grass (*Xyris* sp.), melaleuca, and Asiatic pennywort (*Centella asiatica*).

Palmetto Prairie, Disturbed (0-24% Exotics) (FLUCFCS Code 3219 E1)

The canopy of this habitat type is primarily open with scattered melaleuca on the edges. The sub-canopy contains saw palmetto (*Serenoa repens*) and scattered Brazilian pepper. The ground cover includes carpetgrass, chocolateweed (*Melochia spicata*), saw palmetto, and grass-leaved goldenrod.

Palmetto Prairie, Disturbed (25-49% Exotics) (FLUCFCS Code 3219 E2)
This habitat type is similar to FLUCFCS Code 3219 E1, but with 25 to 49 percent melaleuca in the sub-canopy.

Palmetto Prairie, Disturbed (50-75% Exotics) (FLUCFCS Code 3219 E3)
This habitat type is similar to FLUCFCS Code 3219 E2, but with 50 to 75 percent Brazilian pepper and melaleuca in the sub-canopy.

Palmetto Prairie, Disturbed (76-100% Exotics) (FLUCFCS Code 3219 E4)
This habitat type is similar to FLUCFCS Code 3219 E3, but with 76 to 100 percent Brazilian pepper and melaleuca in the canopy and sub-canopy.

Pine Flatwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 4119 E1)
The canopy of this habitat type includes slash pine (*Pinus elliottii*) and live oak. The sub-canopy contains saw palmetto, muscadine grapevine (*Vitis rotundifolia*), slash pine, scattered laurel oak (*Quercus laurifolia*), and widely scattered wax myrtle and melaleuca. The ground cover includes bahiagrass, false fennel (*Eupatorium leptophyllum*), chocolateweed, live oak, little blue maidencane (*Amphicarpum muhlenbergianum*), muscadine grapevine, spermacoce (*Spermacoce verticillata*), broomsedge, and scattered saw palmetto.

Pine Flatwoods, Disturbed (25-49% Exotics) (FLUCFCS Code 4119 E2)
This habitat type is similar to FLUCFCS Code 4119 E1, but with 25 to 49 percent Brazilian pepper in sub-canopy.

Pine Flatwoods, Disturbed (50-75% Exotics) (FLUCFCS Code 4119 E3)
This habitat type is similar to FLUCFCS Code 4119 E2, but with 50 to 75 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Pine Flatwoods, Disturbed (76-100% Exotics) (FLUCFCS Code 4119 E4)
This habitat type is similar to FLUCFCS Code 4119 E3, but with 76 to 100 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Pine, Disturbed (0-25% Exotics) (FLUCFCS Code 4159 E1)
The canopy of this habitat type contains slash pine and scattered cabbage palm, live oak, and melaleuca. The sub-canopy consists of slash pine, cabbage palm, laurel oak, and widely scattered melaleuca and Brazilian pepper. The ground cover is primarily open with widely scattered spermacoce, muscadine grapevine, and carpetgrass.

Pine, Disturbed (25-49% Exotics) (FLUCFCS Code 4159 E2)
This habitat type is similar to FLUCFCS Code 4159 E1, but with 25 to 49 percent melaleuca and Brazilian pepper in the canopy and sub-canopy and spermacoce in the ground cover.

Pine, Disturbed (50-75% Exotics) (FLUCFCS Code 4159 E3)
This habitat type is similar to FLUCFCS Code 4159 E2, but with 50 to 75 percent earleaf acacia (*Acacia auriculiformis*), Java plum (*Syzygium cumini*), and Brazilian pepper in the sub-canopy and caesarweed (*Urena lobata*) in the ground cover.

Pine, Disturbed (76-100% Exotics) (FLUCFCS Code 4159 E4)
This habitat type is similar to FLUCFCS Code 4159 E3, but with 76 to 100 percent melaleuca in the canopy and sub-canopy.

Brazilian Pepper (FLUCFCS Code 422)
The canopy and sub-canopy of this habitat type contain Brazilian pepper and scattered melaleuca. The ground cover is primarily open and includes earleaf greenbrier (*Smilax auriculata*) and muscadine grapevine.

Melaleuca (FLUCFCS Code 424)
The canopy of this habitat type includes melaleuca and scattered Java plum. The sub-canopy contains Brazilian pepper, melaleuca, Java plum, and widely scattered slash pine, wax myrtle, and cabbage palm. The ground cover includes broomsedge, bahiagrass, dog fennel, spermacoce, cabbage palm, little blue maidencane, and scattered saw palmetto.

Melaleuca, Hydric (FLUCFCS Code 4241)
The canopy of this habitat type includes melaleuca. The sub-canopy contains melaleuca, Brazilian pepper, and cabbage palm. The ground cover includes little blue maidencane, broomsedge, torpedograss, sawgrass (*Cladium jamaicense*), swamp fern (*Telmatoblechnum serrulatum*), swamp flatsedge (*Cyperus ligularis*), Southern beaksedge (*Rhynchospora microcarpa*), Wright's nutrush, false hop sedge (*Carex lupuliformis*), and widely scattered maidencane (*Panicum hemitomon*).

Live Oak, Disturbed (0-24% Exotics) (FLUCFCS Code 4279 E1)
The canopy of this habitat type includes live oak and widely scattered slash pine. The sub-canopy contains scattered saw palmetto, live oak, and American beautyberry (*Callicarpa americana*). The ground cover is primarily open with scattered basketgrass (*Oplismenus* sp.) and caesarweed.

Cabbage Palm, Hydric (50-75% Exotics) (FLUCFCS Code 4281 E3)
The canopy of this habitat type includes cabbage palm. The sub-canopy contains cabbage palm, wax myrtle, and scattered melaleuca. The ground cover includes torpedograss, Wright's nutrush, little blue maidencane, saw palmetto, swamp flatsedge, Asiatic pennywort, marsh pennywort, broomsedge, and dog fennel.

Hardwood/Conifer Mixed, Disturbed (0-24% Exotics) (FLUCFCS Code 4349 E1)
The canopy of this habitat type includes slash pine, live oak, laurel oak, cabbage palm, and widely scattered melaleuca. The sub-canopy contains laurel oak, wax myrtle, Java plum, cabbage palm, slash pine, saw palmetto, live oak, Brazilian pepper, rusty staggerbush (*Lyonia ferruginea*), and widely scattered melaleuca. The ground cover includes carpetgrass, cabbage palm, muscadine grapevine, Asiatic pennywort, caesarweed, earleaf greenbrier, saw palmetto, dog fennel, broomsedge, and spermacoce.

Hardwood/Conifer Mixed, Disturbed (25-49% Exotics) (FLUCFCS Code 4349 E2)
This habitat type is similar to FLUCFCS Code 4349 E1, but with 25 to 49 percent Brazilian pepper in the sub-canopy.

Hardwood/Conifer Mixed, Disturbed (50-75% Exotics) (FLUCFCS Code 4349 E3)
This habitat type is similar to FLUCFCS Code 4349 E2, but with 50 to 75 percent Brazilian pepper in the sub-canopy and caesarweed in the ground cover.

Hardwood/Conifer Mixed, Disturbed (76-100% Exotics) (FLUCFCS Code 4349 E4)
This habitat type is similar to FLUCFCS Code 4349 E4, but with 76 to 100 percent earleaf acacia in the canopy and Brazilian pepper in the sub-canopy.

Mixed Hardwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 4389 E1)
The canopy of this habitat type includes live oak, laurel oak, and scattered cabbage palm. The sub-canopy contains live oak, laurel oak, cabbage palm, and scattered myrsine (*Myrsine cubana*). The ground cover is primarily open with scattered live oak.

Ditch (FLUCFCS Codes 514)
The canopy of this land use type is open. The sub-canopy contains Brazilian pepper, cabbage palm, live oak, and slash pine along the edges. The ground cover includes dotted smartweed (*Persicaria punctata*), torpedograss, Asiatic pennywort, Gulf Coast spikerush (*Eleocharis cellulosa*), dwarf papyrus (*Cyperus haspan*), frog fruit (*Phyla nodiflora*), Mexican clover (*Richardia* sp.), and small-fruit primrose willow (*Ludwigia microcarpa*).

Ditch, Hydric (FLUCFCS Code 514H)
This habitat type is similar to FLUCFCS Code 514 with a higher prevalence of wetland vegetation species such as torpedograss.

Cow Pond (FLUCFCS Code 525)
The canopy and sub-canopy of this land use type are open. The ground cover includes scattered torpedograss along the edges.

Mixed Wetland Hardwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 6179 E1)
The canopy of this habitat type includes laurel oak, cabbage palm, slash pine, and scattered bald cypress (*Taxodium distichum*). The sub-canopy contains laurel oak, myrsine, wax myrtle, Brazilian pepper, saltbush (*Baccharis halimifolia*), cabbage palm, and buckthorn (*Sideroxylon reclinatum*). The ground cover includes marsh pennywort, sawgrass, frog fruit, witchgrass, false fennel, broomsedge, little blue maidencane, climbing hempvine (*Mikania scandens*), earleaf greenbrier, Asiatic pennywort, Wright's nutrush, and gulfdune paspalum (*Paspalum monostachyum*).

Mixed Wetland Hardwoods, Disturbed (25-49% Exotics) (FLUCFCS Code 6179 E2)
This habitat type is similar to FLUCFCS Code 6179 E1, but with 25 to 49 percent melaleuca in the canopy and Brazilian pepper in the sub-canopy.

Mixed Wetland Hardwoods, Disturbed (50-75% Exotics) (FLUCFCS Code 6179 E3)
This habitat type is similar to FLUCFCS Code 6179 E2, but with 50 to 75 percent melaleuca in the canopy and Brazilian pepper in the sub-canopy.

Mixed Wetland Hardwoods, Disturbed (76-100% Exotics) (FLUCFCS Code 6179 E4)
This habitat type is similar to FLUCFCS Code 6179 E3, but with 76 to 100 percent Peruvian primrose willow (*Ludwigia peruviana*) in the sub-canopy.

Cypress, Disturbed (0-24% Exotics) (FLUCFCS Code 6219 E1)
The canopy of this habitat type includes bald cypress. The sub-canopy contains bald cypress, wax myrtle, and scattered Brazilian pepper and melaleuca. The ground cover includes sawgrass, marsh pennywort, little blue maidencane, and scattered West Indian marsh grass (*Hymenachne amplexicaulis*) and torpedograss.

Cypress, Disturbed (25-49% Exotics) (FLUCFCS Code 6219 E2)
This habitat type is similar to FLUCFCS Code 6219 E1, but with 25 to 49 percent Brazilian pepper in the sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Cypress, Disturbed (50-75% Exotics) (FLUCFCS Code 6219 E3)
This habitat type is similar to FLUCFCS Code 6219 E2, but with 50 to 75 percent Brazilian pepper and melaleuca in the canopy and sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Cypress, Disturbed (76-100% Exotics) (FLUCFCS Code 6219 E4)
This habitat type is similar to FLUCFCS Code 6219 E3, but with 76 to 100 percent melaleuca in the canopy and sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Pine, Hydric, Disturbed (0-24% Exotics) (FLUCFCS Code 6259 E1)
The canopy of this habitat type includes slash pine and widely scattered cabbage palm and melaleuca. The sub-canopy contains slash pine, wax myrtle, melaleuca, and scattered cabbage palm. The ground cover includes rush fuirena (*Fuirena scirpoidea*), little blue maidencane, gulfdune paspalum, Asiatic pennywort, sawgrass, Wright's nutrush, corkwood (*Stillingia aquatica*), jointed spikerush (*Eleocharis interstincta*), musky mint (*Hyptis alata*), yellow-eyed grass, Southern beaksedge, rayless goldenrod (*Bigelowia nudata*), and torpedograss.

Pine, Hydric, Disturbed (25-49% Exotics) (FLUCFCS Code 6259 E2)
This habitat type is similar to FLUCFCS Code 6259 E1, but with 25 to 49 percent melaleuca in the canopy and sub-canopy and Wright's nutrush and torpedograss in the ground cover.

Pine, Hydric, Disturbed (50-75% Exotics) (FLUCFCS Code 6259 E3)
This habitat type is similar to FLUCFCS Code 6259 E2, but with 50 to 75 percent melaleuca in the canopy and sub-canopy and Wright's nutrush in the ground cover.

Pine, Hydric, Disturbed (76-100% Exotics) (FLUCFCS Code 6259 E4)
This vegetation community is similar to FLUCFCS Code 6259 E3, but with 76 to 100 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Wetland Shrub, Disturbed (25-49% Exotics) (FLUCFCS Code 6319 E2)
The canopy of this habitat type includes scattered melaleuca. The sub-canopy contains wax myrtle, saltbush, and scattered bald cypress and melaleuca. The ground cover includes little blue

maidencane, spreading beaksedge (*Rhynchospora divergens*), slender spikerush (*Eleocharis baldwinii*), Tracy's beaksedge (*Rhynchospora tracyi*), and a rush species (*Juncus* sp.).

Freshwater Marsh, Disturbed (0-24% Exotics) (FLUCFCS Code 6419 E1)
The canopy of this habitat type is primarily open with scattered bald cypress and scattered melaleuca on the edges. The sub-canopy contains scattered wax myrtle, corkwood, bald cypress, melaleuca, and widely scattered Carolina willow (*Salix caroliniana*). The ground cover includes dotted smartweed, shortleaf spike sedge (C*yperus brevifolius*), witchgrass, spikerush, sawgrass, maidencane, fireflag (*Thalia geniculata*), sand cordgrass (*Spartina bakeri*), torpedograss, pickerelweed (*Pontederia cordata*), soft rush (*Juncus effusus*), Wright's nutrush, and West Indian marsh grass.

Freshwater Marsh, Disturbed (25-49% Exotics) (FLUCFCS Code 6419 E2)
This habitat type is similar to FLUCFCS Code 6419 E1, but with 25 to 49 percent torpedograss, Wright's Nutrush, and West Indian marsh grass in the ground cover.

Freshwater Marsh, Disturbed (50-75% Exotics) (FLUCFCS Code 6419 E3)
This habitat type is similar to FLUCFCS Code 6419 E2, but with 50 to 75 percent torpedograss, Wright's nutrush, and West Indian marsh grass in the ground cover.

Freshwater Marsh, Disturbed (76-100% Exotics) (FLUCFCS Code 6419 E4)
This habitat type is similar to FLUCFCS Code 6419 E3, but with 76 to 100 percent torpedograss, Wright's Nutrush, and West Indian marsh grass in the ground cover.

Wet Prairie, Disturbed (50-75% Exotics) (FLUCFCS Code 6439 E3)
The canopy and sub-canopy of this habitat type include scattered melaleuca. The ground cover contains torpedograss, Wright's nutrush, broomsedge, and Southern beaksedge.

Wet Prairie, Disturbed (75-100% Exotics) (FLUCFCS Code 6439 E4)
This habitat type is similar to FLUCFCS Code 6439 E3, but with 76 to 100 percent torpedograss and Wright's nutrush in the ground cover.

Disturbed Land (FLUCFCS Code 740)
The canopy of this land use type is primarily open with scattered slash pine and cabbage palm. The sub-canopy contains scattered wax myrtle, slash pine, saw palmetto, and Brazilian pepper. The ground cover includes bahiagrass, chocolateweed, lovegrass (*Eragrostis* sp.), broomsedge, and dog fennel.

Disturbed Land, Hydric (FLUCFCS Code 7401)
The canopy of this land use type includes scattered melaleuca, slash pine, and laurel oak. The sub-canopy contains scattered melaleuca and wax myrtle. The ground cover includes torpedograss, yellow-eyed grass, and acute spikerush (*Eleocharis acutangula*).

Spoil (FLUCFCS Code 743)
The canopy of this land use type is open. The sub-canopy contains Brazilian pepper. The ground cover includes bahiagrass, dog fennel, and spermacoce.

Berm (FLUCFCS Code 747)

The canopy of this land use type includes live oak, cabbage palm, slash pine, melaleuca, and Brazilian pepper. The sub-canopy includes live oak, slash pine, Brazilian pepper, and saw palmetto. The ground cover contains caesarweed, muscadine grapevine, dog fennel, cabbage palm, and broomsedge.

APPENDIX E

SOILS MAP



Soil Unit	Description
6	Hallandale fine sand, wet, 0 to 2 percent slopes
10	Pompano fine sand, 0 to 2 percent slopes
11	Myakka fine sand, 0 to 2 percent slopes
14	Valkaria fine sand, 0 to 2 percent slopes
26	Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes
27	Pompano fine sand, frequently ponded, 0 to 1 percent slopes
28	Immokalee sand, 0 to 2 percent slopes
33	Oldsmar sand, 0 to 2 percent slopes
34	Malabar fine sand, 0 to 2 percent slopes
41	Valkaria fine sand, frequently ponded, 0 to 1 percent slopes
44	Malabar fine sand, frequently ponded, 0 to 1 percent slopes
51	Floridana sand, frequently ponded, 0 to 2 percent slopes
63	Malabar fine sand, high, 0 to 2 percent slopes
73	Pineda fine sand, frequently ponded, 0 to 1 percent slopes

NOTES:

AERIAL PHOTOGRAPHS WERE ACQUIRED THROUGH THE LEE COUNTY PROPERTY APPRAISER'S OFFICE WITH A FLIGHT DATE OF JANUARY MAY 2020.

PROPERTY BOUNDARY PER MORRIS-DEPEW DRAWING No. 21008 - WETLAND FLAG LOCATION-CLIENT.DWG DATED JUNE 16, 2021.

ROADWAY NETWORKS WERE ACQUIRED FROM THE FLORIDA GEOGRAPHIC DATA LIBRARY WEBSITE.

SOILS MAPPING WAS ACQUIRED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE WEBSITE APRIL 2021.

DRAWN BY	DATE
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REVIEWED BY	DATE
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Consulting Ecologists

DANIELS PARKWAY SOUTH
SOILS MAP

DRAWING No. 19LLL3192

SHEET No. APPENDIX E

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APPENDIX F

SOILS SUMMARY TABLE AND DESCRIPTIONS

DANIELS PARKWAY SOUTH
SOILS SUMMARY AND DESCRIPTIONS

September 2021

Table 1. Soils Listed by the Natural Resource Conservation Service on the Project

Mapping Unit	Description
6	Hallandale Fine Sand, Wet, 0 to 2 percent slopes
10	Pompano Fine Sand, 0 to 2 percent slopes
11	Myakka Fine Sand, 0 to 2 percent slopes
14	Valkaria Fine Sand, 0 to 2 percent slopes
26	Pineda-Pineda, Wet, Fine Sand, 0 to 2 percent slopes
27	Pompano Fine Sand, frequently ponded, 0 to 1 percent slopes
28	Immokalee Sand, 0 to 2 percent slopes
33	Oldsmar Sand, 0 to 2 percent slopes
34	Malabar Fine Sand, frequently ponded, 0 to 2 percent slopes
41	Valkaria Fine Sand, frequently ponded, 0 to 1 percent slopes
44	Malabar Fine Sand, frequently ponded, 0 to 1 percent slopes
51	Floridana Sand, frequently ponded, 0 to 2 percent slopes
63	Malabar Fine Sand, High, 0 to 2 percent slopes
73	Pineda Fine Sand, frequently ponded, 0 to 1 percent slopes

6 - Hallandale Fine Sand, Wet, 0 to 2 percent slopes

This is a nearly level, poorly drained soil on low, broad flatwood areas. Slopes are smoother and range from 0 to 2 percent. Typically, the surface layer is gray fine sand and about 2 inches thick. The subsurface layer is about 5 inches thick. The substratum is very pale brown fine sand about 5 inches thick. Fractured limestone bedrock is found at a depth of 12 inches which has solution holes extending to a depth of 20 to 25 inches. These solution holes contain mildly alkaline, loamy material. In most years, under natural conditions, the water table is at a depth of less than 10 inches for 1 to 3 months. The water level recedes below the limestone for about 7 months.

10 - Pompano Fine Sand, 0 to 2 percent slopes

This is a nearly level, poorly drained soil on sloughs. Slopes are smooth to concave and range from 0 to 2 percent. Typically, the surface layer is about 4 inches thick and composed of dark gray fine sand. The underlying layers are light gray, very pale brown, or white fine sand and extend to a depth of 80 inches or more. In most years, under natural conditions, the water table is at a depth of less than 10 inches for 2 to 4 months and at a depth of 10 to 40 inches for about 6 months. The water table recedes to a depth of more than 40 inches for about 3 months. During periods of high rainfall, the soil is covered by slowly moving water for periods of about 7 to 30 days or more.

11 - Myakka Fine Sand, 0 to 2 percent slopes

This is a nearly level, poorly drained soil on broad flatwood areas. Slopes are smoother and range from 0 to 2 percent. Typically, the subsurface layer is very dark gray fine sand extending about 3 inches. The subsurface layer is fine sand about 23 inches thick. The upper 3 inches of the subsurface later is gray while the remaining 20 inches is light gray. The subsoil is a fine sand that

reaches depths of 80 inches or greater. The upper 4 inches of the subsoil is black and firm. The following 5 inches is a dark reddish-brown color and is friable. The next 17 inches of the subsoil is black and firm with the following 11 inches being dark reddish-brown. The lower 17 inches of the subsoil is a mixture of black and dark reddish-brown and is friable.

14 - Valkaria Fine Sand, 0 to 2 percent slopes

This is a nearly level, poorly drained soil on sloughs. Slopes are smooth to concave and range from 0 to 2 percent. Typically, the surface layer is about 2 inches of dark grayish brown fine sand. The subsurface layer is 5 inches of very pale brown fine sand. The subsoil is a loose fine sand extending to a depth of 80 inches or more. The upper 9 inches of the subsoil is yellow. The next 4 inches is brownish yellow. The following 6 inches is yellowish brown. The lowermost 54 inches is pale yellow, yellow, brown, and very pale brown. In most years, under natural conditions, the water table is at a depth of less than 10 inches for 1 to 3 months. It is at a depth of 10 to 40 inches for about 6 months and recedes to a depth of more than 40 inches for about 3 months. During periods of high rainfall, the soil is covered by slowly moving water for periods of about 7 to 30 days or more.

26 - Pineda-Pineda, Wet, Fine Sand, 0 to 2 percent slopes

This is a nearly level, poorly drained soil on sloughs. Slopes are smooth to slightly concave and range from 0 to 2 percent. Typically, the surface layer is about 1 inch thick and composed of black fine sand. The subsurface layer is very pale brown fine sand and about 4 inches thick. The upper portion of the subsoil is brownish yellow fine sand and about 8 inches thick. The next 10 inches is strong brown fine sand. The following 6 inches is a yellowish-brown fine sand. The next 7 inches is light gray fine sand with brownish yellow mottles. The lower portion of the subsoil is approximately 18 inches thick and light brownish gray fine sandy loam with light gray sandy intrusions. The substratum is light gray fine sand reaching a depth of 80 inches or more. In most years, under natural conditions, the water table is within 10 inches of the surface for 2 to 4 months. It is 10 to 40 inches below the surface for more than 6 months and it recedes to more than 40 inches below the surface during extended dry periods. During periods of high rainfall, the soil is covered by slowly moving water for periods of about 7 to 30 days or more.

27 - Pompano Fine Sand, frequently ponded, 0 to 1 percent slopes

This is a nearly level, poorly drained soil in depressions. Slopes are concave and less than 1 percent. Typically, the surface layer is gray fine sand about 3 inches thick. The substratum is fine sand to a depth of 80 inches or more. The upper 32 inches is light brownish gray with few, fine, faint yellowish-brown mottles. The lower 45 inches is light gray. In most years, under natural conditions, the water table is within 10 inches of the surface for 2 to 4 months and stands above the surface for about 3 months. It is 10 to 40 inches below the surface for more than 5 months.

28 - Immokalee Sand, 0 to 2 percent slopes

This is a nearly level, poorly drained soil in flatwoods areas. Slopes are smooth to convex and range from 0 to 2 percent. Typically, the surface layer is black sand about 4 inches thick. The subsurface layer is dark gray sand in the upper 5 inches and light gray sand in the lower 27 inches. The subsoil is sand to a depth of 69 inches. The upper 14 inches of the subsoil is black and firm, the next 5 inches is dark reddish brown, and the lower 14 inches is dark yellowish brown. The substratum is very pale brown sand to a depth of 80 inches or more. In most years, under natural

conditions, the water table is within 10 inches of the surface for 1 to 3 months and 10 to 40 inches below the surface for 2 to 6 months. It recedes to a depth of more than 40 inches during extended dry periods.

33 – Oldsmar Sand, 0 to 2 percent slopes

This is a nearly level, poorly drained soil on low, broad flatwoods areas. Slopes are smooth to slightly convex and range from 0 to 2 percent. Typically, the surface layer is approximately 3 inches thick and is composed of black sand. The subsurface layer is gray and light gray sand about 39 inches thick. The upper portion of the subsoil is very dark gray sand about 5 inches thick. The lower portion of the subsoil is yellowish brown, mixed light brownish gray, and brown fine sandy loam about 11 inches thick. Pale brown sand extends to a depth of 80 inches or more. In most years, under natural conditions, the water table is at a depth of less than 10 inches for 1 to 3 months. It is at a depth of 10 to 40 inches for more than 6 months, and it recedes to a depth of more than 40 inches during extended dry periods.

34 – Malabar Fine Sand, frequently ponded, 0 to 2 percent slopes

This is a nearly level, poorly drained soil on sloughs. Slopes are smooth to concave and range from 0 to 2 percent. Typically, the surface layer is a dark gray fine sand about 5 inches thick. The next 12 inches is light gray and very pale brown fine sand. Below this is a 16-inch layer of light yellowish brown fine sand with yellow mottles and a 9-inch layer of brownish yellow fine sand. The subsoil layer is gray loamy fine sand about 9 inches thick with large yellowish-brown mottles. The next 8 inches is gray fine sandy loam with large brownish yellow mottles. Below is light gray loamy fine sand with yellowish brown mottles to a depth of 80 inches or more. In most years, under natural conditions, the water table is at a depth of less than 10 inches for 2 to 4 months. The water table is at a depth of 10 to 40 inches for more than 6 months, and it recedes to a depth of more than 40 inches during extended dry periods. During periods of high rainfall, the soil is covered by a shallow layer of slowly moving water for periods of about 7 to 30 days or more.

41 - Valkaria Fine Sand, frequently ponded, 0 to 1 percent slopes

This is a nearly level, poorly drained soil in depressions. Slopes are concave and less than 1 percent. Typically, the surface layer is a dark gray fine sand about 1 inch thick. The subsurface layer is about 4 inches of light gray fine sand. The subsoil is approximately 33 inches thick and is composed of fine sand. The upper 4 inches of this layer is brownish yellow with the middle 16 inches being yellow and the remaining 13 inches being a light yellowish brown. The substratum is pale brown fine sand with few fine faint brown mottles reaching a depth of 80 inches or more. In most years, under natural conditions, the water table is within 10 inches of the surface for about 6 months. The soil is ponded for approximately 3 months. The water table is 10 to 40 inches below the surface during the remainder of the year except in extended dry periods.

44 - Malabar Fine Sand, frequently ponded, 0 to 1 percent slopes

This is a nearly level, poorly drained soil in depressions. Slopes are concave and are less than 1 percent. Typically, the surface layer is 4 inches thick. The upper 1 inch is black fine sand that is high in organic matter. The lower portion of this layer is dark gray fine sand. The subsurface layer is sand to a depth of 44 inches. The upper 3 inches of the subsurface is very pale brown. The following 11 inches are yellow iron-coated sand grains. The next 10 inches is very pale brown with common coatings of iron on the sand grains. The lower 16 inches of the subsurface is light

gray. The subsoil is 23 inches thick and contains olive gray sandy loam with dark bluish gray mottles. Underneath the subsoil lies a layer of sandy loam with marl and shell fragments. In most years, under natural conditions, the soil is ponded for approximately 4 to 6 months or more. The water table is 10 to 40 inches below the surface for 4 to 6 months.

51 - Floridana Sand, frequently ponded, 0 to 2 percent slopes

This is a nearly level, very poorly drained soil in depressions. Slopes are concave and range from 0 to 2 percent. Typically, the surface layer is black sand extending 22 inches thick. The subsurface layer is approximately 17 inches thick and made of light brownish gray sand. The subsoil is olive gray fine sandy loam reaching a depth of 54 inches. Below the subsoil is a light brownish gray sand with pockets of olive gray loamy sand. In most years, under natural conditions, the water table is above the surface for 3 to 6 months. It is 10 to 40 inches below the surface during extended dry periods.

63 - Malabar Fine Sand, High, 0 to 2 percent slopes

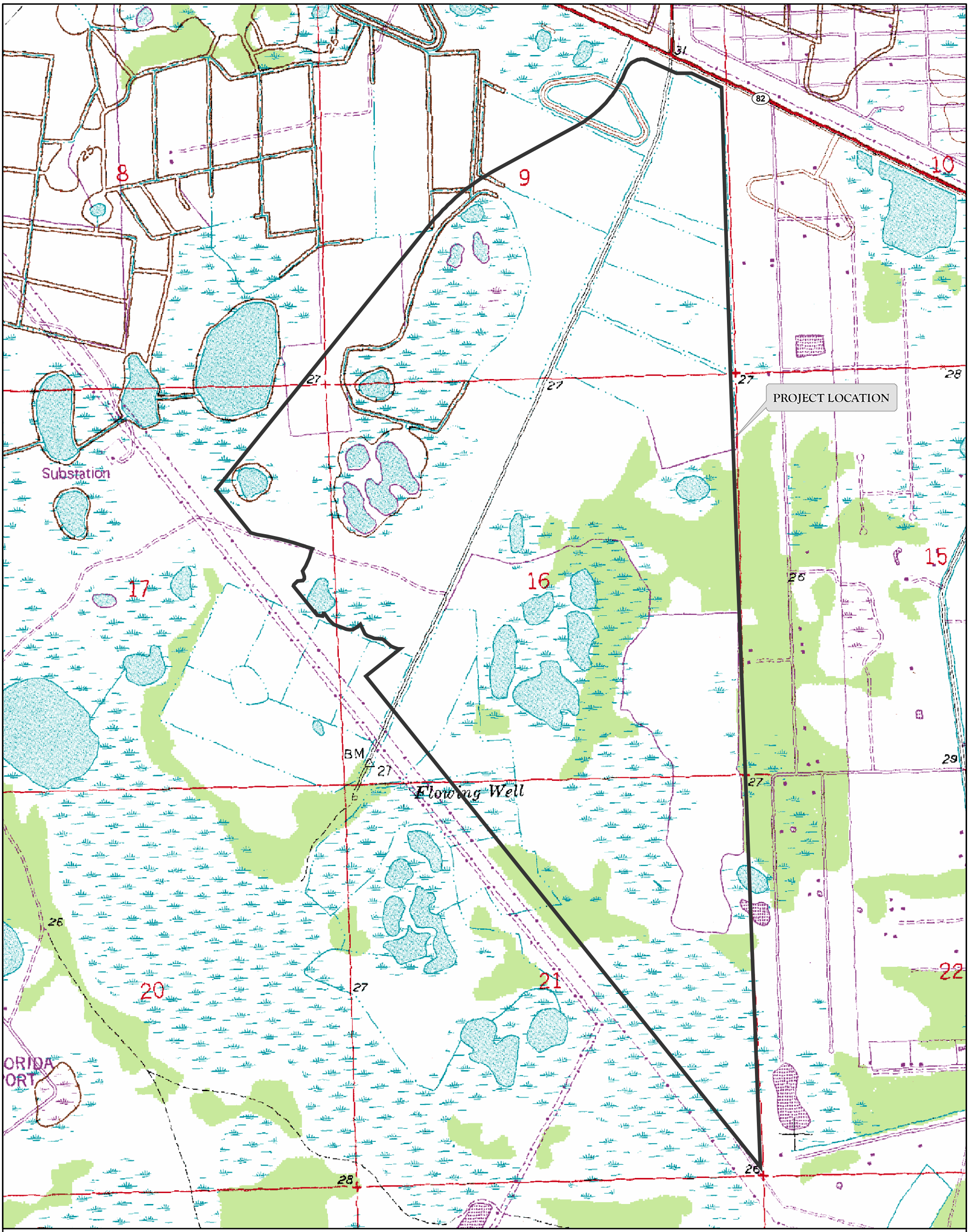
This is a nearly level, poorly drained soil in the flatwoods. Slopes are smooth to slightly convex and range from 0 to 2 percent. Typically, the surface layer is a very dark gray fine sand that extends 4 inches. The subsurface layer is about 13 inches thick and is a light gray fine sand. The subsoil is fine sand and sandy clay loam extending approximately 51 inches. The upper 7 inches of the subsoil is very pale brown fine sand with brownish yellow mottles. The next 6 inches is brownish yellow fine sand with yellowish brown mottles. Next is yellow fine sand with yellowish brown mottles, then light gray fine sand with yellowish brown mottles followed by gray sandy clay loam with yellowish brown stains along root channels. The lower 8 inches of the subsoil is greenish gray sandy clay loam. Below the subsoil region is a gray fine sand with about 60 percent shell fragments. This layer extends to a depth of 80 inches or more. In most years, under natural conditions, the water table is 10 to 40 inches below the surface for 4 to 6 months. It recedes to more than 40 inches below the surface during extended dry periods.

73 - Pineda Fine Sand, frequently ponded, 0 to 1 percent slopes

This is a nearly level, very poorly drained soil in depressions. Slopes are concave and are less than 1 percent. Typically, the surface layer is a dark gray fine sand extending 3 inches in thickness. The subsurface layer is approximately 31 inches thick and is made of fine sand. The upper 9 inches of the subsurface is light gray. The next 7 inches is very pale brown with yellowish brown mottles. The lower 12 inches of the subsurface is brownish yellow with many iron-coated sand grains. The subsoil is fine sandy loam reaching a depth of 55 inches. The upper 8 inches is gray with very pale brown sandy intrusions and yellowish-brown mottles. The lower 16 inches is gray. Below the subsoil is a light gray loamy sand that extends a depth of up to 80 inches. In most years, under natural conditions, the soil is ponded for about 3 to 6 months or more. The water table is within a depth of 10 to 40 inches for 4 to 6 months.

APPENDIX G

QUAD SHEET



LEGEND

DANIELS PARKWAY SOUTH

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Feet

NOTES:

COUNTY INFORMATION AND ROADWAY NETWORKS WERE ACQUIRED FROM THE FLORIDA GEOGRAPHIC DATA LIBRARY WEBSITE.

DIGITAL RASTER GRAPHIC USGS TOPOGRAPHIC QUADRANGLES WERE ACQUIRED FROM THE LAND BOUNDARY INFORMATION SYSTEM (LABINS) WEBSITE JULY 2007.

DRAWN BY	P.F.
DATE	6/28/21
REVIEWED BY	C.R.
DATE	6/28/21
REVISED	
DATE	

13620 Metropolis Avenue
Suite 200
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PASSARELLA & ASSOCIATES INC
Consulting Ecologists

DANIELS PARKWAY SOUTH
QUAD SHEET

DRAWING No. 19LLL3192

SHEET No. APPENDIX G

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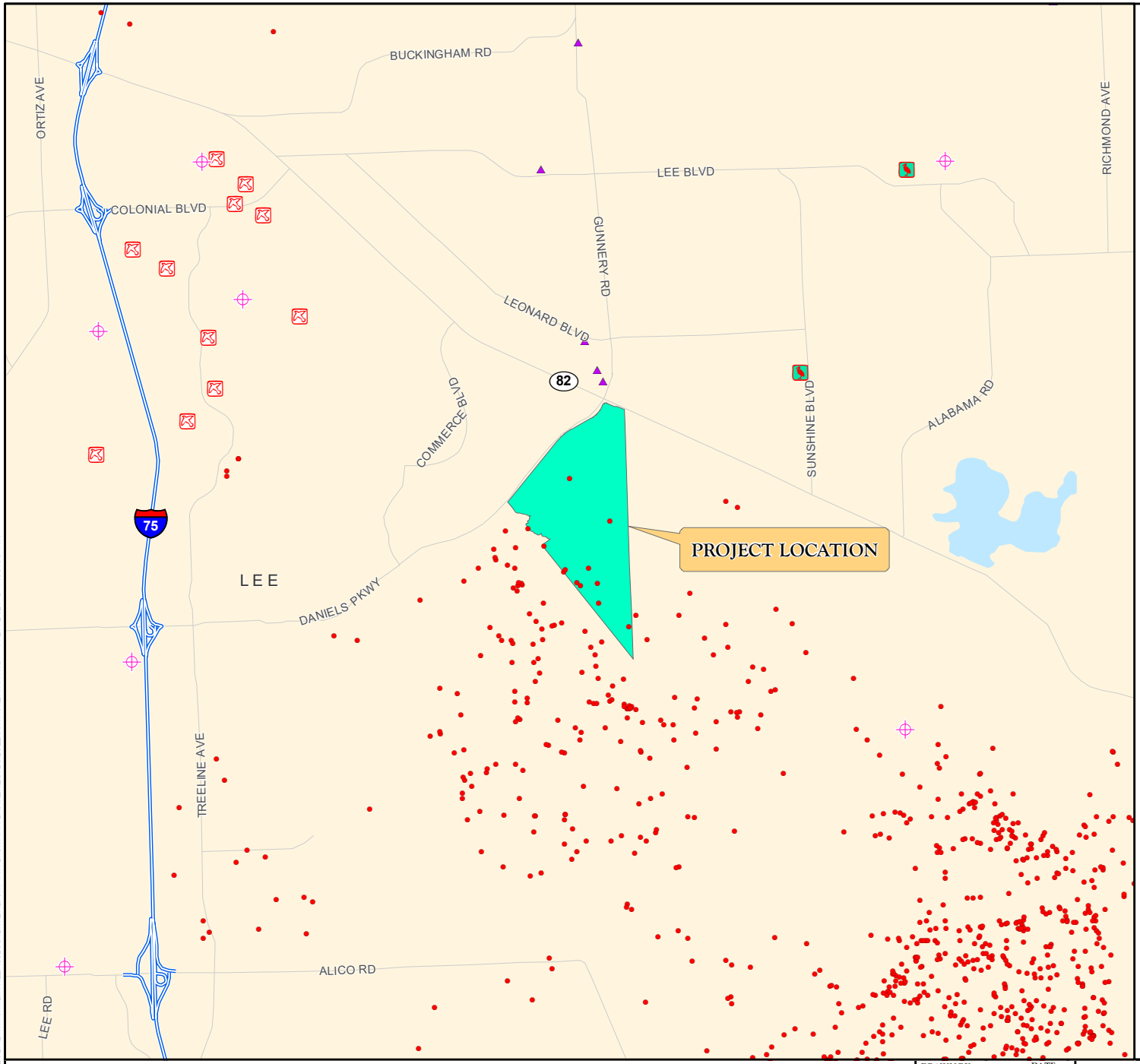
APPENDIX H

DOCUMENTED OCCURRENCES OF LISTED SPECIES



LEGEND

- Daniels Parkway South
- Bald Eagle Nest Location
- Florida Panther Telemetry
- Black Bear Location
- Red Cockaded Woodpecker Location
- Wading Bird Location
- Scrub Jay Location

N
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0 1 2
Miles

NOTES:

EAGLE NEST LOCATIONS WERE ACQUIRED FROM THE FWCC AND AUDUBON EAGLEWATCH ON NOVEMBER 2020 AND ARE CURRENT TO 2020.

BLACK BEAR LOCATIONS WERE ACQUIRED FROM THE FWCC ON DECEMBER 2020 AND ARE CURRENT TO 2007.

PANTHER TELEMETRY WAS ACQUIRED FROM THE FWCC ON DECEMBER 2020 AND IS CURRENT TO JUNE 2020.

RED COCKADED WOODPECKER LOCATIONS WERE ACQUIRED FROM THE FWCC ON DECEMBER 2020.

SCRUB JAY LOCATIONS WERE ACQUIRED FROM THE USFWS FTP SITE ON OCTOBER 2019.

WADING BIRD ROOKERIES WERE ACQUIRED FROM THE FWCC DECEMBER 2020 AND ARE CURRENT TO 1999.

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APPENDIX H. DOCUMENTED OCCURRENCES OF LISTED SPECIES
DANIELS PARKWAY SOUTH

DRAWN BY	DATE
P.F.	6/28/21
REVIEWED BY	DATE
C.R.	6/28/21
REVISED	DATE

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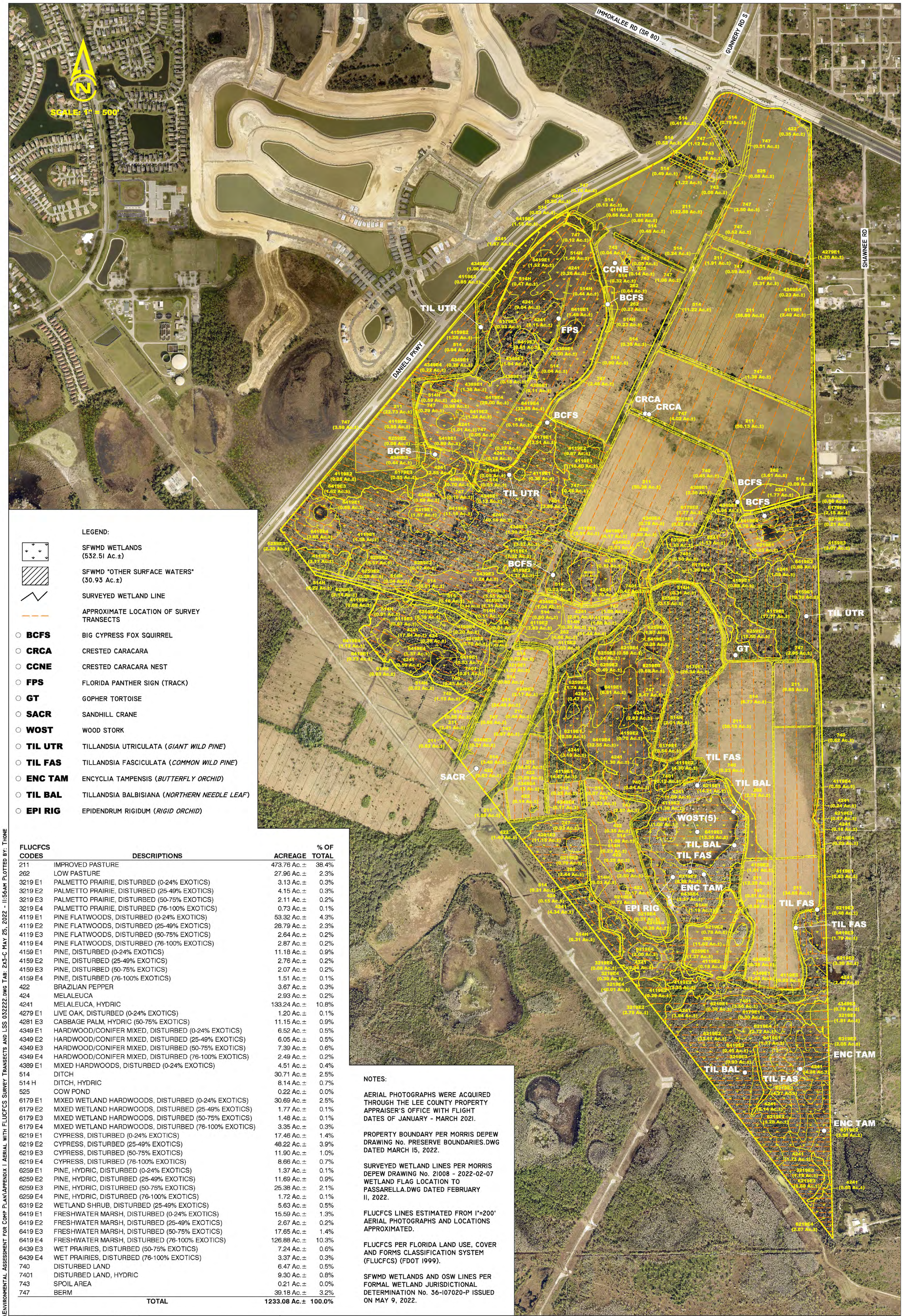
APPENDIX I

AERIAL WITH FLUCFCS, SURVEY TRANSECTS, AND LISTED SPECIES LOCATIONS



LEGEND:

- SFWMD WETLANDS (532.51 Ac.±)
- SFWMD "OTHER SURFACE WATERS" (30.93 Ac.±)
- SURVEYED WETLAND LINE
- APPROXIMATE LOCATION OF SURVEY TRANSECTS
- **BCFS** BIG CYPRESS FOX SQUIRREL
- **CRCA** CRESTED CARACARA
- **CCNE** CRESTED CARACARA NEST
- **FPS** FLORIDA PANTHER SIGN (TRACK)
- **GT** GOPHER TORTOISE
- **SACR** SANDHILL CRANE
- **WOST** WOOD STORK
- **TIL UTR** TILLANDSIA UTRICULATA (*GIANT WILD PINE*)
- **TIL FAS** TILLANDSIA FASCICULATA (*COMMON WILD PINE*)
- **ENC TAM** ENCYCLIA TAMPENSIS (*BUTTERFLY ORCHID*)
- **TIL BAL** TILLANDSIA BALBISIANA (*NORTHERN NEEDLE LEAF*)
- **EPI RIG** EPIDENDRUM RIGIDUM (*RIGID ORCHID*)

FLUCFCS CODES	DESCRIPTIONS	ACREAGE	% OF TOTAL
211	IMPROVED PASTURE	473.76 Ac.±	38.4%
262	LOW PASTURE	27.96 Ac.±	2.3%
3219 E1	PALMETTO PRAIRIE, DISTURBED (0-24% EXOTICS)	3.13 Ac.±	0.3%
3219 E2	PALMETTO PRAIRIE, DISTURBED (25-49% EXOTICS)	4.15 Ac.±	0.3%
3219 E3	PALMETTO PRAIRIE, DISTURBED (50-75% EXOTICS)	2.11 Ac.±	0.2%
3219 E4	PALMETTO PRAIRIE, DISTURBED (76-100% EXOTICS)	0.73 Ac.±	0.1%
4119 E1	PINE FLATWOODS, DISTURBED (0-24% EXOTICS)	53.32 Ac.±	4.3%
4119 E2	PINE FLATWOODS, DISTURBED (25-49% EXOTICS)	28.79 Ac.±	2.3%
4119 E3	PINE FLATWOODS, DISTURBED (50-75% EXOTICS)	2.64 Ac.±	0.2%
4119 E4	PINE FLATWOODS, DISTURBED (76-100% EXOTICS)	2.87 Ac.±	0.2%
4159 E1	PINE, DISTURBED (0-24% EXOTICS)	11.18 Ac.±	0.9%
4159 E2	PINE, DISTURBED (25-49% EXOTICS)	2.76 Ac.±	0.2%
4159 E3	PINE, DISTURBED (50-75% EXOTICS)	2.07 Ac.±	0.2%
4159 E4	PINE, DISTURBED (76-100% EXOTICS)	1.51 Ac.±	0.1%
422	BRAZILIAN PEPPER	3.67 Ac.±	0.3%
424	MELALEUCA	2.93 Ac.±	0.2%
4241	MELALEUCA, HYDRIC	133.24 Ac.±	10.8%
4279 E1	LIVE OAK, DISTURBED (0-24% EXOTICS)	1.20 Ac.±	0.1%
4281 E3	CABBAGE PALM, HYDRIC (50-75% EXOTICS)	11.15 Ac.±	0.9%
4349 E1	HARDWOOD/CONIFER MIXED, DISTURBED (0-24% EXOTICS)	6.52 Ac.±	0.5%
4349 E2	HARDWOOD/CONIFER MIXED, DISTURBED (25-49% EXOTICS)	6.05 Ac.±	0.5%
4349 E3	HARDWOOD/CONIFER MIXED, DISTURBED (50-75% EXOTICS)	7.39 Ac.±	0.6%
4349 E4	HARDWOOD/CONIFER MIXED, DISTURBED (76-100% EXOTICS)	2.49 Ac.±	0.2%
4389 E1	MIXED HARDWOODS, DISTURBED (0-24% EXOTICS)	4.51 Ac.±	0.4%
514	DITCH	30.71 Ac.±	2.5%
514 H	DITCH, HYDRIC	8.14 Ac.±	0.7%
525	COW POND	0.22 Ac.±	0.0%
6179 E1	MIXED WETLAND HARDWOODS, DISTURBED (0-24% EXOTICS)	30.69 Ac.±	2.5%
6179 E2	MIXED WETLAND HARDWOODS, DISTURBED (25-49% EXOTICS)	1.77 Ac.±	0.1%
6179 E3	MIXED WETLAND HARDWOODS, DISTURBED (50-75% EXOTICS)	1.48 Ac.±	0.1%
6179 E4	MIXED WETLAND HARDWOODS, DISTURBED (76-100% EXOTICS)	3.35 Ac.±	0.3%
6219 E1	CYPRESS, DISTURBED (0-24% EXOTICS)	17.46 Ac.±	1.4%
6219 E2	CYPRESS, DISTURBED (25-49% EXOTICS)	48.22 Ac.±	3.9%
6219 E3	CYPRESS, DISTURBED (50-75% EXOTICS)	11.90 Ac.±	1.0%
6219 E4	CYPRESS, DISTURBED (76-100% EXOTICS)	8.66 Ac.±	0.7%
6259 E1	PINE, HYDRIC, DISTURBED (0-24% EXOTICS)	1.37 Ac.±	0.1%
6259 E2	PINE, HYDRIC, DISTURBED (25-49% EXOTICS)	11.69 Ac.±	0.9%
6259 E3	PINE, HYDRIC, DISTURBED (50-75% EXOTICS)	25.38 Ac.±	2.1%
6259 E4	PINE, HYDRIC, DISTURBED (76-100% EXOTICS)	1.72 Ac.±	0.1%
6319 E2	WETLAND SHRUB, DISTURBED (25-49% EXOTICS)	5.63 Ac.±	0.5%
6419 E1	FRESHWATER MARSH, DISTURBED (0-24% EXOTICS)	15.59 Ac.±	1.3%
6419 E2	FRESHWATER MARSH, DISTURBED (25-49% EXOTICS)	2.67 Ac.±	0.2%
6419 E3	FRESHWATER MARSH, DISTURBED (50-75% EXOTICS)	17.65 Ac.±	1.4%
6419 E4	FRESHWATER MARSH, DISTURBED (76-100% EXOTICS)	126.88 Ac.±	10.3%
6439 E3	WET PRAIRIES, DISTURBED (50-75% EXOTICS)	7.24 Ac.±	0.6%
6439 E4	WET PRAIRIES, DISTURBED (76-100% EXOTICS)	3.37 Ac.±	0.3%
740	DISTURBED LAND	6.47 Ac.±	0.5%
7401	DISTURBED LAND, HYDRIC	9.30 Ac.±	0.8%
743	SPOIL AREA	0.21 Ac.±	0.0%
747	BERM	39.18 Ac.±	3.2%
	TOTAL	**1233.08 Ac.±**	**100.0%**

NOTES:

AERIAL PHOTOGRAPHS WERE ACQUIRED THROUGH THE LEE COUNTY PROPERTY APPRAISER'S OFFICE WITH FLIGHT DATES OF JANUARY - MARCH 2021.

PROPERTY BOUNDARY PER MORRIS DEPEW DRAWING No. PRESERVE BOUNDARIES.DWG DATED MARCH 15, 2022.

SURVEYED WETLAND LINES PER MORRIS DEPEW DRAWING No. 21008 - 2022-02-07 WETLAND FLAG LOCATION TO PASSARELLA.DWG DATED FEBRUARY 11, 2022.

FLUCFCS LINES ESTIMATED FROM 1"=200' AERIAL PHOTOGRAPHS AND LOCATIONS APPROXIMATED.

FLUCFCS PER FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCFCS) (FDOT 1999).

SFWMD WETLANDS AND OSW LINES PER FORMAL WETLAND JURISDICTIONAL DETERMINATION No. 36-107020-P ISSUED ON MAY 9, 2022.

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DRAWN BY	DATE
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DESIGNED BY	DATE
C.R./J.T.	9/7/21
REVISED	DATE
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Consulting Ecologists

DANIELS PARKWAY SOUTH

AERIAL WITH FLUCFCS, SURVEY TRANSECTS, AND LISTED SPECIES LOCATIONS

DRAWING No. 19lll3192

SHEET No. APPENDIX I

EXHIBIT C

OF ENVIRONMENTAL REPORTS
EXHIBITS – M12 & T7

INDIGENOUS PRESERVATION RESTORATION MANAGEMENT PLAN

DANIELS PARKWAY SOUTH
INDIGENOUS PRESERVATION, RESTORATION, AND MANAGEMENT PLAN

Revised May 2022

Prepared For:

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Project No. 19LLL3192

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1.0 INTRODUCTION

The following outlines the Lee County Indigenous Preservation, Restoration, and Management Plan for Daniels Parkway South (Project). The Project site totals 1,233.08± acres and is located in Sections 8, 9, 16, 17, and 21; Township 45 South; Range 26 East; Lee County (Appendix A). The Project proposes to establish on-site conservation areas totaling approximately 679.10± acres. The proposed conservation areas will contain the following elements:

- Preservation and enhancement of 295.80± acres of indigenous wetlands and uplands (existing forested and herbaceous habitats with less than 75 percent exotics);
- Restoration of 359.60± acres of indigenous wetlands and uplands through the removal of exotic vegetation (existing forested and herbaceous habitats with greater than 75 percent exotics) and supplemental planting;
- Backfilling 6.90± acres of other surface waters and replanting with native wetland and upland vegetation; and
- Removal of 16.80± acres of berms and planting with native wetland and upland vegetation.

Thus, the Project proposes 679.10± acres of conservation area that will be placed under conservation easement with inspection, enforcement, and approval rights granted to Lee County and the South Florida Water Management District (SFWMD). The preserve areas utilized to meet the buffer requirements are depicted on Morris Depew's Master Concept Plan (MCP) which is provided under separate cover. The preservation and enhancement areas include 58.1± acres of mature pine flatwoods (Florida Land Use Cover and Forms Classification System (FLUCFCS) Codes 4119 E1 and E2) which is considered a rare and unique upland habitat type according to the Lee County Comprehensive Plan. The locations of the rare and unique upland preserve areas are also depicted on the MCP.

2.0 EXISTING INDIGENOUS VEGETATION HABITATS

Pursuant to Land Development Code (LDC) Section 10-1, indigenous native vegetation means those plant species that are characteristic of the major plant communities of the County. Native habitats where invasive exotic vegetation has exceeded 75 percent coverage are not considered to be indigenous vegetation.

The proposed conservation areas include 295.80± acres (combined pre-development wetland and upland acres) of existing indigenous native vegetation. The indigenous areas to be preserved consist of wetland and upland forested and herbaceous habitats with less than 75 percent coverage by exotics. These indigenous areas are adjacent to improved pasture that has a perimeter berm and ditch system. An aerial with Florida Land Use, Cover, and Forms Classification System (FLUCFCS) is attached as Appendix B and depicts the existing indigenous wetland and upland vegetation communities.

The indigenous wetland habitats within the conservation areas total 205.70± acres and consist mostly of remnant cypress, hydric pine, mixed wetland hardwood habitats, and freshwater marsh.

Hydric cabbage palm, wetland shrub, and wet prairies occur to a lesser extent. The indigenous uplands within the conservation areas total 90.1± acres and consist mostly of palmetto prairie, pine flatwoods, pine, cabbage palm, and hardwood/conifer, mixed habitats adjacent to the on-site wetland areas. Listed below are the FLUCFCS (Florida Department of Transportation 1999) descriptions of the indigenous wetland and upland habitats proposed for preservation and enhancement.

2.1 Indigenous Wetland Habitats

Cabbage Palm, Hydric (50-75% Exotics) (FLUCFCS Code 4281 E3)
The canopy of this habitat type includes cabbage palm (*Sabal palmetto*). The sub-canopy contains cabbage palm, wax myrtle (*Morella cerifera*), and scattered melaleuca (*Melaleuca quinquenervia).* The ground cover includes torpedograss (*Panicum repens*), Wright's nutrush (*Scleria lacustris*), little blue maidencane (*Amphicarpum muehlenbergianum),* saw palmetto (*Serenoa repens*), swamp flatsedge (*Cyperus ligularis*), Asiatic pennywort (*Centella asiatica*), marsh pennywort (*Hydrocotyle umbellata*), broomsedge (*Andropogon virginicus*), and dog fennel (*Eupatorium capillifolium*).

Mixed Wetland Hardwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 6179 E1)
The canopy of this habitat type includes laurel oak (*Quercus laurifolia*), cabbage palm, slash pine (*Pinus elliottii*), and scattered bald cypress (*Taxodium distichum*). The sub-canopy contains laurel oak, myrsine (*Myrsine cubana*), wax myrtle, Brazilian pepper (*Schinus terebinthifolia*), saltbush (*Baccharis halimifolia*), cabbage palm, and buckthorn (*Sideroxylon reclinatum*). The ground cover includes marsh pennywort, sawgrass (*Cladium jamaicense*), frog fruit (*Phyla nodiflora*), witchgrass (*Dichanthelium* sp.), false fennel (*Eupatorium leptophyllum*), broomsedge, little blue maidencane, climbing hempvine (*Mikania scandens*), earleaf greenbrier (*Smilax auriculata*), Asiatic pennywort, Wright's nutrush, and gulfdune paspalum (*Paspalum monostachyum*).

Mixed Wetland Hardwoods, Disturbed (25-49% Exotics) (FLUCFCS Code 6179 E2)
This habitat type is similar to FLUCFCS Code 6179 E1, but with 25 to 49 percent melaleuca in the canopy and Brazilian pepper in the sub-canopy.

Mixed Wetland Hardwoods, Disturbed (50-75% Exotics) (FLUCFCS Code 6179 E3)
This habitat type is similar to FLUCFCS Code 6179 E2, but with 50 to 75 percent melaleuca in the canopy and Brazilian pepper in the sub-canopy.

Cypress, Disturbed (0-24% Exotics) (FLUCFCS Code 6219 E1)
The canopy of this habitat type includes bald cypress. The sub-canopy contains bald cypress, wax myrtle, and scattered Brazilian pepper and melaleuca. The ground cover includes sawgrass, marsh pennywort, little blue maidencane, and scattered West Indian marsh grass (*Hymenachne amplexicaulis*), and torpedograss.

Cypress, Disturbed (25-49% Exotics) (FLUCFCS Code 6219 E2)
This habitat type is similar to FLUCFCS Code 6219 E1 but contains 25 to 49 percent Brazilian pepper in the sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Cypress, Disturbed (50-75% Exotics) (FLUCFCS Code 6219 E3)
This habitat type is similar to FLUCFCS Code 6219 E2 but contains 50 to 75 percent Brazilian pepper and melaleuca in the canopy and sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Pine, Hydric, Disturbed (0-24% Exotics) (FLUCFCS Code 6259 E1)
The canopy of this habitat type includes slash pine and widely scattered cabbage palm and melaleuca. The sub-canopy contains slash pine, wax myrtle, melaleuca, and scattered cabbage palm. The ground cover includes rush fuirena (*Fuirena scirpoidea*), little blue maidencane, gulfdune paspalum, Asiatic pennywort, sawgrass, Wright's nutrush, corkwood (*Stillingia aquatica*), jointed spikerush (*Eleocharis interstincta*), musky mint (*Hyptis alata*), yellow-eyed grass (*Xyris* sp.), Southern beaksedge (*Rhynchospora microcarpa*), rayless goldenrod (*Bigelowia nudata*), and torpedograss.

Pine, Hydric, Disturbed (25-49% Exotics) (FLUCFCS Code 6259 E2)
This habitat type is similar to FLUCFCS Code 6259 E1, but with 25 to 49 percent melaleuca in the canopy and sub-canopy and Wright's nutrush and torpedograss in the ground cover.

Pine, Hydric, Disturbed (50-75% Exotics) (FLUCFCS Code 6259 E3)
This habitat type is similar to FLUCFCS Code 6259 E2, but with 50 to 75 percent melaleuca in the canopy and sub-canopy and Wright's nutrush in the ground cover.

Wetland Shrub, Disturbed (25-49% Exotics) (FLUCFCS Code 6319 E2)
The canopy of this habitat type includes scattered melaleuca. The sub-canopy contains wax myrtle, saltbush, and scattered bald cypress and melaleuca. The ground cover includes little blue maidencane, spreading beaksedge (*Rhynchospora divergens*), slender spikerush (*Eleocharis baldwinii*), Tracy's beaksedge (*Rhynchospora tracyi*), and rush (*Juncus* sp.).

Freshwater Marsh, Disturbed (0-24% Exotics) (FLUCFCS Code 6419 E1)
The canopy of this habitat type is primarily open with scattered bald cypress and scattered melaleuca on the edges. The sub-canopy contains scattered wax myrtle, corkwood, bald cypress, melaleuca, and widely scattered Carolina willow (*Salix caroliniana*). The ground cover includes dotted smartweed (*Persicaria punctata*), shortleaf spike sedge (C*yperus brevifolius*), witchgrass, spikerush (*Eleocharis cellulosa*), sawgrass, maidencane (*Panicum hemitomon*), fireflag (*Thalia geniculata*), sand cordgrass (*Spartina bakeri*), torpedograss, pickerelweed (*Pontederia cordata*), soft rush (*Juncus effusus*), Wright's nutrush, and West Indian marsh grass.

Freshwater Marsh, Disturbed (25-49% Exotics) (FLUCFCS Code 6419 E2)
This habitat type is similar to FLUCFCS Code 6419 E1, but with 25 to 49 percent torpedograss, Wright's nutrush, and West Indian marsh grass in the ground cover.

Freshwater Marsh, Disturbed (50-75% Exotics) (FLUCFCS Code 6419 E3)
This habitat type is similar to FLUCFCS Code 6419 E2, but with 50 to 75 percent torpedograss, Wright's nutrush, and West Indian marsh grass in the ground cover.

Wet Prairies, Disturbed (50-75% Exotics) (FLUCFCS Code 6439 E3)
The canopy and sub-canopy of this habitat type include scattered melaleuca. The ground cover contains torpedograss, Wright's nutrush, broomsedge, and Southern beaksedge.

2.2 Indigenous Upland Habitats

Palmetto Prairie, Disturbed (0-24% Exotics) (FLUCFCS Code 3219 E1)
The canopy of this habitat type is primarily open with scattered melaleuca on the edges. The sub-canopy contains saw palmetto and scattered Brazilian pepper. The ground cover includes carpetgrass (*Axonopus* sp.), chocolateweed (*Melochia spicata*), saw palmetto, and grass-leaved goldenrod (*Euthamia graminifolia*).

Palmetto Prairie, Disturbed (25-49% Exotics) (FLUCFCS Code 3219 E2)
This habitat type is similar to FLUCFCS Code 3219 E1, but with 25 to 49 percent melaleuca in the sub-canopy.

Palmetto Prairie, Disturbed (50-75% Exotics) (FLUCFCS Code 3219 E3)
This habitat type is similar to FLUCFCS Code 3219 E2, but with 50 to 75 percent Brazilian pepper and melaleuca in the sub-canopy.

Pine Flatwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 4119 E1)
The canopy of this habitat type includes slash pine and live oak (*Quercus virginiana*). The sub-canopy contains saw palmetto, muscadine grapevine (*Vitis rotundifolia*), slash pine, scattered laurel oak, and widely scattered wax myrtle and melaleuca. The ground cover includes bahiagrass (*Paspalum notatum*), false fennel, chocolateweed, live oak, little blue maidencane, muscadine grapevine, spermacoce (*Spermacoce verticillata*), broomsedge, and scattered saw palmetto.

Pine Flatwoods, Disturbed (25-49% Exotics) (FLUCFCS Code 4119 E2)
This habitat type is similar to FLUCFCS Code 4119 E1, but with 25 to 49 percent Brazilian pepper in the sub-canopy.

Pine Flatwoods, Disturbed (50-75% Exotics) (FLUCFCS Code 4119 E3)
This habitat type is similar to FLUCFCS Code 4119 E2, but with 50 to 75 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Pine, Disturbed (0-24% Exotics) (FLUCFCS Code 4159 E1)
The canopy of this habitat type contains slash pine and scattered cabbage palm, live oak, and melaleuca. The sub-canopy consists of slash pine, cabbage palm, laurel oak, and widely scattered melaleuca and Brazilian pepper. The ground cover is primarily open with widely scattered spermacoce, muscadine grapevine, and carpetgrass.

Pine, Disturbed (25-49% Exotics) (FLUCFCS Code 4159 E2)
This habitat type is similar to FLUCFCS Code 4159 E1, but with 25 to 49 percent melaleuca and Brazilian pepper in the canopy and sub-canopy and spermacoce in the ground cover.

Pine, Disturbed (50-75% Exotics) (FLUCFCS Code 4159 E3)
This habitat type is similar to FLUCFCS Code 4159 E2, but with 50 to 75 percent earleaf acacia (*Acacia auriculiformis*), Java plum (*Syzgium cumini*), and Brazilian pepper in the sub-canopy and caesarweed (*Urena lobata*) in the ground cover.

Live Oak, Disturbed (0-24% Exotics) (FLUCFCS Code 4279 E1)
The canopy of this habitat type includes live oak and widely scattered slash pine. The sub-canopy contains scattered saw palmetto, live oak, and American beautyberry (*Callicarpa americana*). The ground cover is primarily open with scattered basketgrass (*Oplismenus* sp.) and caesarweed.

Hardwood/Conifer Mixed, Disturbed (0-24% Exotics) (FLUCFCS Code 4349 E1)
The canopy of this habitat type includes slash pine, live oak, laurel oak, cabbage palm, and widely scattered melaleuca. The sub-canopy contains laurel oak, wax myrtle, Java plum, cabbage palm, slash pine, saw palmetto, live oak, Brazilian pepper, rusty staggerbush (*Lyonia ferruginea*), and widely scattered melaleuca. The ground cover includes carpetgrass, cabbage palm, muscadine grapevine, Asiatic pennywort, caesarweed, earleaf greenbrier, saw palmetto, dog fennel, broomsedge, and spermacoce.

Hardwood/Conifer Mixed, Disturbed (25-49% Exotics) (FLUCFCS Code 4349 E2)
This habitat type is similar to FLUCFCS Code 4349 E1, but with 25 to 49 percent Brazilian pepper in the sub-canopy.

Hardwood/Conifer Mixed, Disturbed (50-75% Exotics) (FLUCFCS Code 4349 E3)
This habitat type is similar to FLUCFCS Code 4349 E2, but with 50 to 75 percent Brazilian pepper in the sub-canopy and caesarweed in the ground cover.

Mixed Hardwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 4389 E1)
The canopy of this habitat type includes live oak, laurel oak, and scattered cabbage palm. The sub-canopy contains live oak, laurel oak, cabbage palm, and scattered myrsine (*Myrsine cubana*). The ground cover is primarily open with scattered live oak.

3.0 EXISTING NON-INDIGENOUS VEGETATION

Approximately 359.60± acres (53.2 percent) of the proposed conservation areas consist of vegetation communities that do not meet the LDC's definition of indigenous vegetation. Existing non-indigenous wetlands within the conservation areas total 301.50± acres and consist primarily of disturbed native wetland habitats with greater than 75 percent coverage by exotics, such as Brazilian pepper, melaleuca, torpedograss, and Wright's nutrush. Non-indigenous uplands within the conservation areas total 58.10± acres and consist primarily of improved pasture. Non-indigenous areas also include 6.90± acres of other surface waters (OSW) and 16.80± acres of berms that will be removed and replanted with native wetland and upland plantings. The non-indigenous wetland and upland vegetation communities and surface waters are identified in Appendix C. Listed below are the FLUCFCS descriptions of the non-indigenous habitats on the Project site.

3.1 Non-Indigenous Wetland Habitats

Low Pasture (FLUCFCS Code 262)
The canopy and sub-canopy of this land use type are open. The ground cover includes torpedograss, witchgrass, dog fennel, marsh pennywort, Wright's nutrush, yellow-eyed grass, melaleuca, and Asiatic pennywort.

Melaleuca, Hydric (FLUCFCS Code 4241)
The canopy of this habitat type includes melaleuca. The sub-canopy contains melaleuca, Brazilian pepper, and cabbage palm. The ground cover includes little blue maidencane, broomsedge, torpedograss, sawgrass, swamp fern (*Telmatoblechnum serrulatum*), swamp flatsedge, Southern beaksedge, Wright's nutrush, false hop sedge (*Carex lupuliformis*), and widely scattered maidencane.

Mixed Wetland Hardwoods, Disturbed (76-100% Exotics) (FLUCFCS Code 6179 E4)
This habitat type is similar to FLUCFCS Code 6179 E3, but with 76 to 100 percent Peruvian primrose willow (*Ludwigia peruviana*) in the sub-canopy.

Cypress, Disturbed (76-100% Exotics) (FLUCFCS Code 6219 E4)
This habitat type is similar to FLUCFCS Code 6219 E3, but with 76 to 100 percent melaleuca in the canopy and sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Pine, Hydric, Disturbed (76-100% Exotics) (FLUCFCS Code 6259 E4)
This habitat type is similar to FLUCFCS Code 6259 E3, but with 76 to 100 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Freshwater Marsh, Disturbed (25-49% Exotics) (FLUCFCS Code 6419 E4)
This habitat type is similar to FLUCFCS Code 6419 E3, but with 76 to 100 percent torpedograss, Wright's nutrush, and West Indian marsh grass in the ground cover.

Wet Prairies, Disturbed (76-100% Exotics) (FLUCFCS Code 6439 E4)
This habitat type is similar to FLUCFCS Code 6439 E3, but with 76 to 100 percent torpedograss and Wright's nutrush in the ground cover.

Disturbed Land, Hydric (FLUCFCS Code 7401)
The canopy of this land use type includes scattered melaleuca, slash pine, and laurel oak. The sub-canopy contains scattered melaleuca and wax myrtle. The ground cover includes torpedograss, yellow-eyed grass, and acute spikerush (*Eleocharis acutangula*).

3.2 Non-Indigenous Upland Habitats

Improved Pasture (FLUCFCS Code 211)
The canopy of this land use type is primarily open with scattered cabbage palm and melaleuca. The sub-canopy contains scattered wax myrtle, live oak, cabbage palm, and Brazilian pepper. The ground cover consists of bahiagrass, carpetgrass, broomsedge, dog fennel, grass-leaved goldenrod, bermudagrass (*Cynodon dactylon*), and tropical soda apple (*Solanum viarum*).

Palmetto Prairie, Disturbed (76-100% Exotics) (FLUCFCS Code 3219 E4)
This habitat type is similar to FLUCFCS Code 3219 E3, but with 76 to 100 percent Brazilian pepper and melaleuca in the canopy and sub-canopy.

Pine Flatwoods, Disturbed (76-100% Exotics) (FLUCFCS Code 4119 E4)
This habitat type is similar to FLUCFCS Code 4119 E3, but contains 76 to 100 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Pine, Disturbed (FLUCFCS Code 4159 E4)
This habitat type is similar to FLUCFCS Code 4159 E3 but with 76 to 100 percent melaleuca in the canopy and sub-canopy.

Brazilian Pepper (FLUCFCS Code 422)
The canopy and sub-canopy of this habitat type contain Brazilian pepper and scattered melaleuca. The ground cover is primarily open and includes earleaf greenbrier and muscadine grapevine.

Melaleuca (FLUCFCS Code 424)
The canopy of this habitat type includes melaleuca and scattered Java plum. The sub-canopy contains Brazilian pepper, melaleuca, Java plum, and widely scattered slash pine, wax myrtle, and cabbage palm. The ground cover includes broomsedge, bahiagrass, dog fennel, spermacoce, cabbage palm, little blue maidencane, and scattered saw palmetto.

Hardwood/Conifer Mixed, Disturbed (76-100% Exotics) (FLUCFCS Code 4349 E4)
This habitat type is similar to FLUCFCS Code 4349 E3, but with 76 to 100 percent earleaf acacia in the canopy and Brazilian pepper in the sub-canopy.

Disturbed Land (FLUCFCS Code 740)
The canopy of this land use type is primarily open with scattered slash pine and cabbage palm. The sub-canopy contains scattered wax myrtle, slash pine, saw palmetto, and Brazilian pepper. The ground cover includes bahiagrass, chocolateweed, lovegrass (*Eragrostis* sp.), broomsedge, and dog fennel.

Spoil Area (FLUCFCS Code 743)
The canopy of this land use type is open. The sub-canopy contains Brazilian pepper. The ground cover includes bahiagrass, dog fennel, and spermacoce.

Berm (FLUCFCS Code 747)
The canopy of this land use type includes live oak, cabbage palm, slash pine, melaleuca, and Brazilian pepper. The sub-canopy includes live oak, slash pine, Brazilian pepper, and saw palmetto. The ground cover contains caesarweed, muscadine grapevine, dog fennel, cabbage palm, and broomsedge.

3.3 Non-Indigenous Surface Waters

Ditch (FLUCFCS Code 514)
The canopy of this land use type is open. The sub-canopy contains Brazilian pepper, cabbage palm, live oak, and slash pine along the edges. The ground cover includes dotted smartweed (*Persicaria punctata*), torpedograss, Asiatic pennywort, Gulf Coast spikerush, dwarf papyrus (*Cyperus haspan*), frog fruit, Mexican clover (*Richardia* sp.), and smallfruit primrose willow (*Ludwigia microcarpa*).

Ditch, Hydric (FLUCFCS Code 514 H)
This habitat type is similar to FLUCFCS Code 514 H with a higher prevalence of wetland vegetation species such as torpedograss.

Cow Pond (FLUCFCS Code 525)
The canopy and sub-canopy of this land use type are open. The ground cover includes scattered torpedograss along the edges.

4.0 INDIGENOUS VEGETATION PRESERVATION AND ENHANCEMENT

A total of 295.80± acres (205.70± acres of wetlands and 90.10± acres of uplands) with less than 75 percent existing exotic vegetation will be preserved and enhanced by the hand-removal/treatment of exotic and nuisance vegetation. The locations of the indigenous preservation areas are shown on Appendix C.

4.1 Methods to Remove and Control Exotic and Nuisance Plants

Exotics to be eradicated include, but are not limited to, the 21 species of prohibited invasive exotic species listed in Section 10-420(h) of the LDC (Table 1).

Table 1. Prohibited Invasive Exotics

Common Name	Scientific Name
Air potato	*Dioscorea alata*
Australian pines	All *Casuarina* species
Bishopwood	*Bischofia javanica*
Brazilian pepper	*Schinus terebinthifolia*
Carrotwood	*Cupaniopsis anacardioides*
Chinese tallow	*Sapium sebiferum*
Cork tree	*Thespesia populnea*
Cuban laurel fig	*Ficus microcarpa*
Downy rose-myrtle	*Rhodomyrtus tomentosus*
Earleaf acacia	*Acacia auriculiformis*
Japanese climbing fern	*Lygodium japonicum*
Java plum	*Syzygium cumini*
Melaleuca	*Melaleuca quinquenervia*
Murray red gum	*Eucalyptus camaldulensis*
Old World climbing fern	*Lygodium microphyllum*
Rose apple	*Syzygium jambos*
Rosewood	*Dalbergia sissoo*
Tropical soda apple	*Solanum viarum*
Wedelia	*Wedelia trilobata*
Weeping fig	*Ficus benjamina*
Woman's tongue	*Albizia lebbeck*

Exotic and nuisance vegetation removal will be conducted primarily by hand methods. Hand treatment will be either by the felling of exotic trees, hand-removal, and herbicide treatment of the tree stumps; or by hand-pulling and removal. The treatment of exotic and nuisance vegetation will include one or more of the following methods: (1) cut exotics within 12 inches of ground elevation, hand-remove cut vegetation, and treat the remaining stump with approved herbicide; (2) foliar application of approved herbicide or hand pulling of exotic seedlings; and (3) foliar application of approved herbicide to nuisance grasses.

4.2 Debris Removal

Exotic vegetative debris that is cut will be removed from the indigenous preserve areas. Exotic debris may be stacked in the adjacent agricultural lands and burned. The preserve areas will be inspected annually for trash/garbage. Any trash/garbage located within the preserve areas will be removed and disposed of by hand.

4.3 Method and Frequency of Pruning and Trimming

Exotic removal within the existing indigenous habitats is scheduled to begin after development order approval. After completing the initial exotic removal, semi-annual inspections of the preserves will occur for the first two years. During these inspections, the conservation areas will be traversed by a qualified ecologist. Locations of nuisance and/or exotic species will be identified for immediate treatment with an appropriate herbicide. Any additional potential problems will also be noted, and corrective actions will be taken. Once exotic/nuisance species levels have been reduced to acceptable limits, inspections of the conservation areas will be conducted a minimum of once every two years.

After the initial exotic removal, all subsequent exotic maintenance will be hand-removal only. Maintenance will be conducted in perpetuity to ensure that the conservation areas are free of exotic vegetation, including the prohibited invasive exotic species listed in Section 10-420(h) of the LDC (Table 1).

5.0 INDIGENOUS VEGETATION RESTORATION

Restoration and re-establishment of indigenous vegetation communities will be conducted in areas with greater than 75 percent coverage by exotic vegetation within the conservation areas. Restoration activities will include 359.60± acres of exotic removal and supplemental plantings in existing forested and herbaceous habitats with greater than 75 percent exotics. Additionally, 6.90± acres of OSW will be backfilled and 16.80± acres of berms within the conservation areas will be removed and replanted with native wetland and upland vegetation. The locations of the various types of restoration areas are shown on Appendix C.

The restoration activities will result in the re-establishment of indigenous vegetation communities throughout the Project site. Due to the proximity to Southwest Florida International Airport (SWFIA), the restoration activities will include like-for-like habitat restoration to minimize wildlife attractants. For example, a melaleuca forest will be replaced with native trees and an exotic-infested marsh will be replanted with herbaceous vegetation. Plantings within the SFWIA 10,000-foot Hazardous Wildlife Buffer (Buffer) will be consistent with Lee County Port Authority's (LCPA) Compatible Native Landscape List (Appendix D). In addition to the re-establishment of indigenous vegetation, extensive berm removal activities will restore the hydrologic connectivity that historically existed among the on-site wetland communities.

5.1 Removal of Exotics and Supplemental Plantings

Approximately 359.60± acres (301.50± acres of wetlands and 58.10± acres of uplands) with greater than 75 percent exotics will be enhanced by removing exotic species and supplemental plantings of native vegetation. Mechanical equipment may be utilized to assist in the removal of exotic species in these areas. The mechanical removal areas will be flagged in the field and approved by Lee County Department of Community Development (DCD) staff prior to issuance of a vegetation removal permit. Cut vegetative debris will be removed from these areas to allow for successful supplemental plantings.

All efforts will be made to preserve native trees when conducting the exotic removal with mechanized equipment. To minimize adverse impacts to the ground surface, machinery that exerts a relatively low impact on the ground surface (i.e., tracked skid steer, feller-buncher) will be utilized within the mechanical removal areas. To prevent ground disturbance, mechanical equipment will not be utilized in areas of the preserve that are saturated or inundated. If rutting occurs, the ground surface will be restored to natural grade with the use of low impact equipment or by hand methods such as raking.

Following the removal of exotics, supplemental wetland plantings will be installed in the 301.50± acres of wetland habitats. Wetland plantings will be selected based on the type of native vegetation that occurs in the adjacent or nearby wetland habitats. Tree and ground cover species will be planted according to the specifications in Table 2. A minimum of three tree species and three ground cover species will be planted. The species selected for planting will depend on market availability at the time the plantings are to occur. Additional tree and ground cover species may be included in the planting table with approval from Lee County staff.

Plant material installed in wetland restoration areas located within the Buffer will adhere to the LCPA Compatible Native Landscape List (Appendix D).

Table 2. Supplemental Wetland Plantings[1]

Common Name	Scientific Name	Minimum Height	Container Size	Planting Instruction (On Center)
Trees (minimum three species)				
Bald cypress*	*Taxodium distichum*	2 to 5 ft.	BR to 3 gal.	20 ft.
Dahoon holly (male only)*	*Ilex cassine*	2 to 5 ft.	BR to 3 gal.	20 ft.
Laurel oak*	*Quercus laurifolia*	2 to 5 ft.	BR to 3 gal.	20 ft.
Pond apple	*Annona glabra*	2 to 5 ft.	BR to 3 gal.	20 ft.
Pop ash	*Fraxinus caroliniana*	2 to 5 ft.	BR to 3 gal.	20 ft.
Red maple	*Acer rubrum*	2 to 5 ft.	BR to 3 gal.	20 ft.
Slash pine*	*Pinus elliottii* var. *densa*	2 to 5 ft.	BR to 3 gal.	20 ft.
Swamp bay*	*Persea palustris*	2 to 5 ft.	BR to 3 gal.	20 ft.
Ground Cover (minimum three species)				
Alligator flag*	*Thalia geniculata*	12 in.	2 in.	3 to 5 ft.
Arrowhead	*Sagittaria lancifolia*	12 in.	2 in.	3 to 5 ft.
Blue maidencane	*Amphicarpum muhlenbergianum*	12 in.	2 in.	3 to 5 ft.
Dense-flower knotweed	*Polygonum glabrum*	12 in.	2 in.	3 to 5 ft.
Fakahatchee grass*	*Tripsacum dactyloides*	12 in.	2 in.	3 to 5 ft.
Golden canna	*Canna flaccida*	12 in.	2 in.	3 to 5 ft.
Gulfdune paspalum	*Paspalum monostachyum*	12 in.	2 in.	3 to 5 ft.
Maidencane	*Panicum hemitomon*	12 in.	2 in.	3 to 5 ft.
Muhly grass*	*Muhlenbergia capillaris*	12 in.	2 in.	3 to 5 ft.
Pickerelweed	*Pontederia cordata*	12 in.	2 in.	3 to 5 ft.

Table 2. (Continued)

Common Name	Scientific Name	Minimum Height	Container Size	Planting Instruction (On Center)
Ground Cover (Continued)				
Sand cordgrass*	*Spartina bakeri*	12 in.	2 in.	3 to 5 ft.
Sawgrass	*Cladium jamaicense*	12 in.	2 in.	3 to 5 ft.
Soft-stem bulrush	*Scirpus validus*	12 in.	2 in.	3 to 5 ft.
Spikerush*	*Eleocharis interstincta*	12 in.	2 in.	3 to 5 ft.
Swamp lily	*Crinum americanum*	12 in.	2 in.	3 to 5 ft.
Wiregrass*	*Aristida stricta*	12 in.	2 in.	3 to 5 ft.

[1]Plantings to be installed in Indigenous Wetland Restoration (301.50± acres)
*Compatible with LCPA plant list.
BR – Bare root

Following the removal of exotic vegetation, supplemental upland plantings will be installed in 58.10± acres of upland habitats. Upland plantings will be selected to replace the type of native vegetation that occurs in the adjacent or nearby upland habitats. Tree plantings will include primarily slash pine, although other tree species listed in Table 3 may be utilized. Upland tree and ground cover plantings will be installed according to the specifications listed in Table 3. A minimum of two tree species and three ground cover species will be planted. The species selected for planting will depend on market availability at the time the plantings are to occur. Additional tree and ground cover species may be included in the planting table with approval from Lee County staff.

Plant material installed in upland restoration areas located within the Buffer will adhere to the LCPA Compatible Native Landscape List (Appendix D).

Table 3. Supplemental Upland Plantings[1]

Common Name	Scientific Name	Minimum Height	Minimum Container Size	Planting Instruction (On Center)
Trees (minimum two species)				
Laurel oak*	*Quercus laurifolia*	2 to 5 ft.	BR to 3 gal.	20 ft.
Live oak	*Quercus virginiana*	2 to 5 ft.	BR to 3 gal.	20 ft.
Slash pine*	*Pinus elliottii* var. *densa*	2 to 5 ft.	BR to 3 gal.	20 ft.
Ground Cover (minimum three species)				
Blue maidencane	*Amphicarpum muhlenbergianum*	12 in.	2 in.	3 to 5 ft.
Broomsedge	*Andropogon virginicus*	12 in.	2 in.	3 to 5 ft.
Fakahatchee grass*	*Tripsacum dactyloides*	12 in.	2 in.	3 to 5 ft.
Gulfdune paspalum	*Paspalum monostachyum*	12 in.	2 in.	3 to 5 ft.
Muhly grass*	*Muhlenbergia capillaris*	12 in.	2 in.	3 to 5 ft.
Sand cordgrass*	*Spartina bakeri*	12 in.	2 in.	3 to 5 ft.
Saw palmetto*	*Serenoa repens*	12 in.	1 gal.	8 ft.
Wiregrass*	*Aristida stricta*	12 in.	2 in.	3 to 5 ft.

Table 3. (Continued)

[1]Plantings to be installed in Indigenous Upland Restoration (58.10± acres)
*Compatible LCPA planting list.
BR – Bare root

5.2 OSW Backfilling, Berm Removal, and Supplemental Plantings

Historic aerials show the property was formerly used for agricultural operations. As part of the historic agricultural surface water management, an extensive network of ditches and berms have been constructed on the property which has led to the partitioning of wetland systems within the site. This includes a historic farm road that bisects the site and precludes hydrologic connectivity between wetland systems located in the northern and southern portions of the property. This road has been used by the South Florida Water Management District to represent the dividing line between the Estero River and Six Mile Cypress sub-watersheds.

To restore the hydrologic connectivity that historically existed among the on-site wetland communities, 16.80± acres of berms will be removed and 6.90± acres of OSW (i.e., agricultural ditches) will be backfilled using the berm material. This includes 13.7± acres of OSW and berm material that will be restored to wetlands and 10± acres of OSW and berm material that will be restored to uplands. These areas will be regraded to match adjacent natural grade and planted with native vegetation according to the specifications listed in Tables 2 and 3. Plant material installed in areas located within the Buffer will adhere to the LCPA Compatible Native Landscape List (Appendix D).

6.0 RESTORATION ACTIVITY SCHEDULE

Site development and restoration may occur in phases. Details of phasing will be addressed at the time of Development Order. Restoration activities in each phase (e.g., Phases 1, 2, etc.) will be completed within ten years or sooner from the date of issuance of the first development order for that phase. The initial Development Order must include all indigenous vegetation preservation, enhancement, and restoration, and hydrologic restoration to support the phased site plan and corresponding density.

7.0 SUCCESS CRITERIA

7.1 Indigenous Wetland and Upland Preservation and Enhancement

The following are the success criteria for the indigenous preserve areas:

1) Initial eradication of exotic and nuisance vegetation will be completed; and
2) The preserve areas will be maintained free from exotic vegetation. Exotic vegetation species include, but are not limited to, the 21 species of prohibited invasive exotic species listed in Section 10-420(h) of the LDC (Table 1).

7.2 Indigenous Wetland and Upland Restoration

The following are the success criteria for the indigenous wetland and upland restoration areas:

1) Initial eradication of exotic and nuisance vegetation will be completed;
2) Removal of berms and backfilling of ditches will be completed;
3) Supplemental plantings will be completed in the indigenous restoration areas;
4) A minimum 80 percent survival of tree and ground cover plantings after five years; and
5) The preserve areas will be maintained free from exotic vegetation. Exotic vegetation species include, but are not limited to, the 21 species of prohibited invasive exotic species listed in Section 10-420(h) of the LDC (Table 1).

8.0 MAINTENANCE

After completing the initial exotic removal, semi-annual inspections of the conservation areas will occur for the first two years. During these inspections, the conservation areas will be traversed by a qualified ecologist. Locations of nuisance and/or exotic species will be identified for immediate treatment with an appropriate herbicide. Any additional potential problems will also be noted, and corrective actions will be taken. Once exotic/nuisance species levels have been reduced to acceptable limits, inspections of the conservation areas will be conducted annually.

After the initial exotic removal, all subsequent exotic maintenance will be hand-removal only. Maintenance will be conducted in perpetuity to ensure that the conservation areas are free of exotic vegetation, including the prohibited invasive exotic species listed in Section 10-420(h) of the LDC (Table 1).

9.0 MONITORING REPORTS

Monitoring will be conducted annually for the conservation areas. Annual reports documenting the achievement of the success criteria outlined in Section 7.0 will be submitted to Lee County DCD staff. Annual monitoring reports will be provided for five years after the Certificate of Compliance has been issued by the DCD or until 80 percent survivability is reached. Monitoring will typically be conducted during the height of the growing season (August to October), with annual reports submitted by January 15. The timing of monitoring may be adjusted based on environmental conditions.

Annual monitoring reports will be provided as described above. The monitoring reports will include documented exotic and nuisance species, mortality of vegetation, estimated causes of mortality, growth of the vegetation, wildlife observed, photographs, and factors that demonstrate the functional health of the conservation areas. A brief description of anticipated maintenance work to be conducted over the next year will also be included. Periodic inspections will be conducted by DCD staff to ensure the accuracy of the monitoring reports.

10.0 LONG-TERM MANAGEMENT AND MONITORING

The conservation areas will be placed in a conservation easement granted to Lee County and the SFWMD with third-party enforcement rights to the Florida Department of Environmental Protection and U.S. Fish and Wildlife Service. The conservation easement will prevent the encroachment of future development as well as activities that are incompatible with the goal of sustaining the preserved and restored conservation areas in good ecological health. Responsibility for long-term management of the conservation areas will shift to the Community Development District or Homeowners' Association following the completion of enhancement and restoration activities on-site. Long-term management of exotic and nuisance vegetation, debris removal, and methods and frequency of trimming and pruning will adhere to the requirement outlined in Section 4.0 of this plan.

11.0 PRESERVE SIGNAGE AND COMMUNITY EDUCATION PLAN

Signs identifying the preserve as a "nature preserve area" will be installed along the boundary of the conservation areas. The signage will include language stating, "No dumping allowed." The signs will be spaced a maximum of 300 feet apart. The signs will be no closer than ten feet from residential property lines and be limited to a maximum height of four feet and a maximum size of two square feet. A typical preserve sign is attached as Appendix E.

Community informational and educational brochures, such as those describing the benefits of preserve areas, may be created and provided as needed to keep residents in compliance with conservation easements, wildlife regulations, etc. Continued education will ensure that the community is well-informed regarding the preserves and wildlife coexistence. A separate Protected Species Management and Human-Wildlife Coexistence Plan has been prepared to address human-wildlife conflicts.

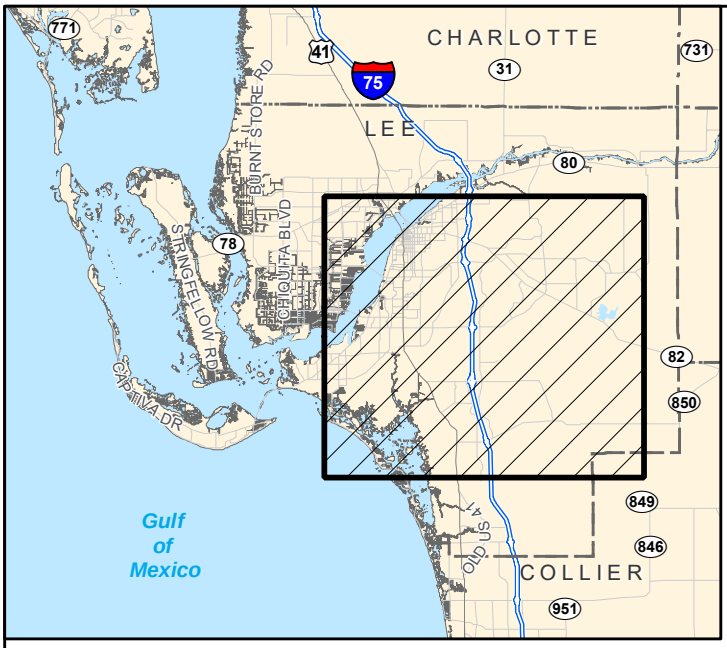
12.0 REFERENCES

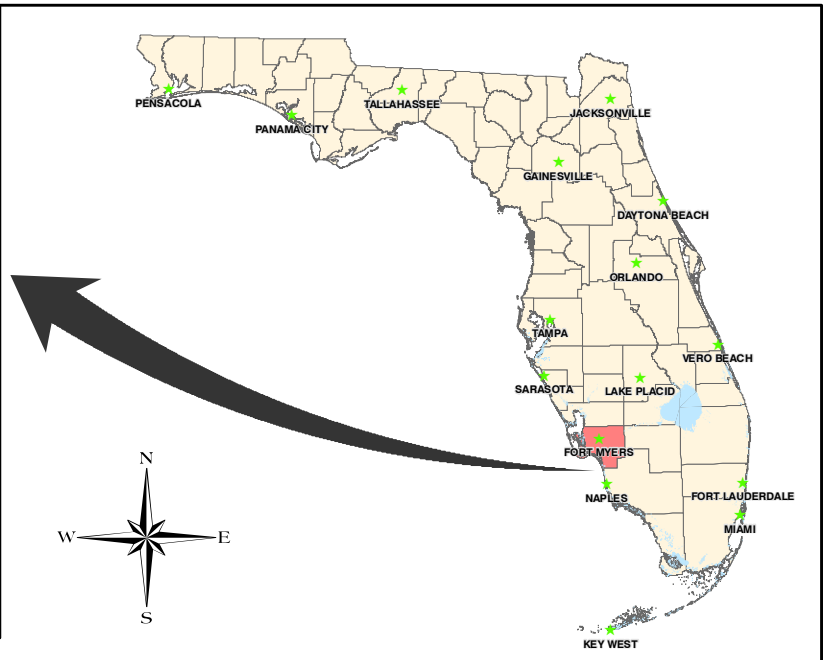
Florida Department of Transportation. 1999. Florida Land Use, Cover and Forms Classification System (FLUCFCS). Procedure No. 550-010-001-a. Third Edition.

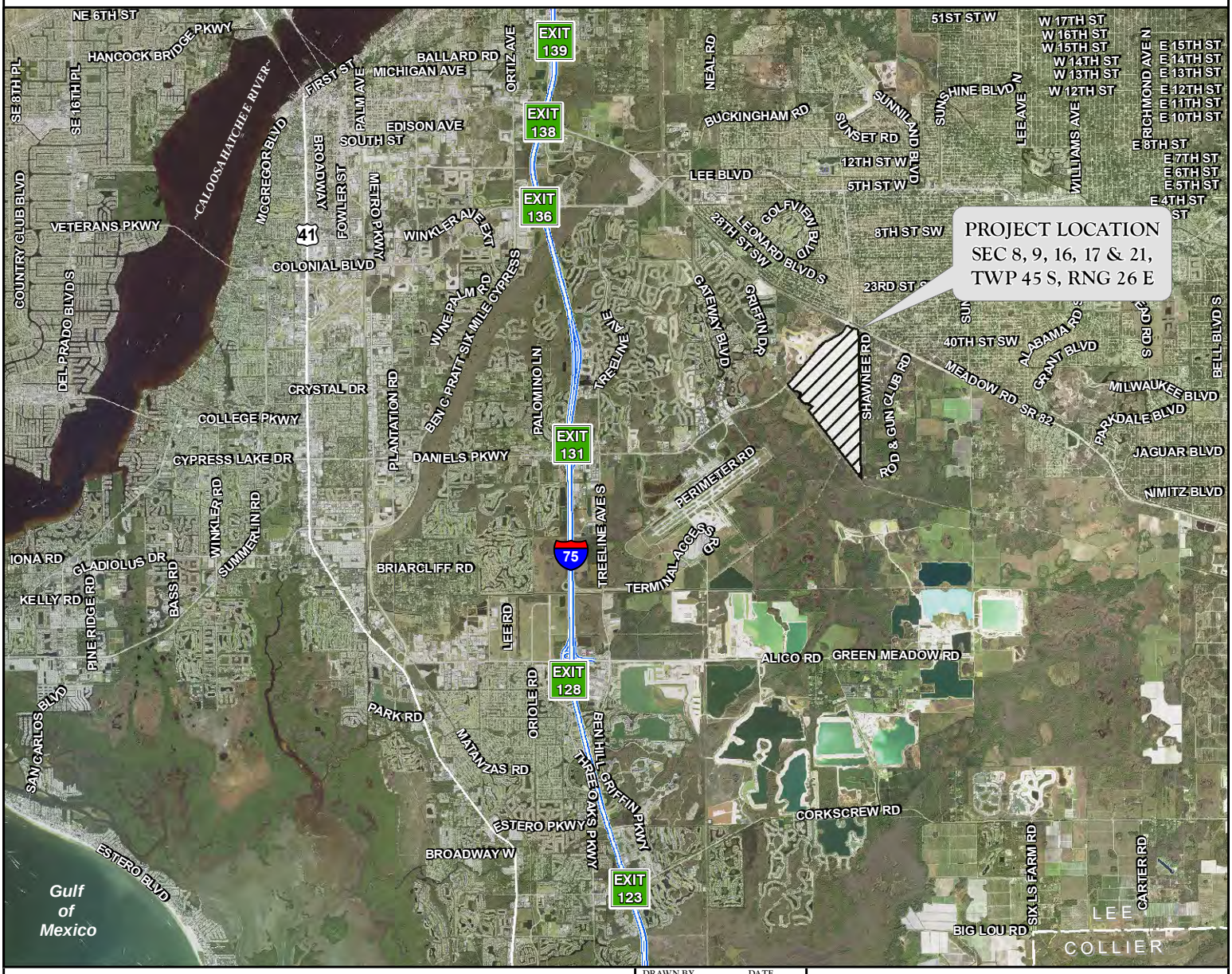
Florida Natural Areas Inventory. 2010. Guide to the Natural Communities of Florida: 2010 Edition. Florida Natural Areas Inventory, Tallahassee, Florida.

APPENDIX A

PROJECT LOCATION MAP







APPENDIX A. PROJECT LOCATION MAP
DANIELS PARKWAY SOUTH

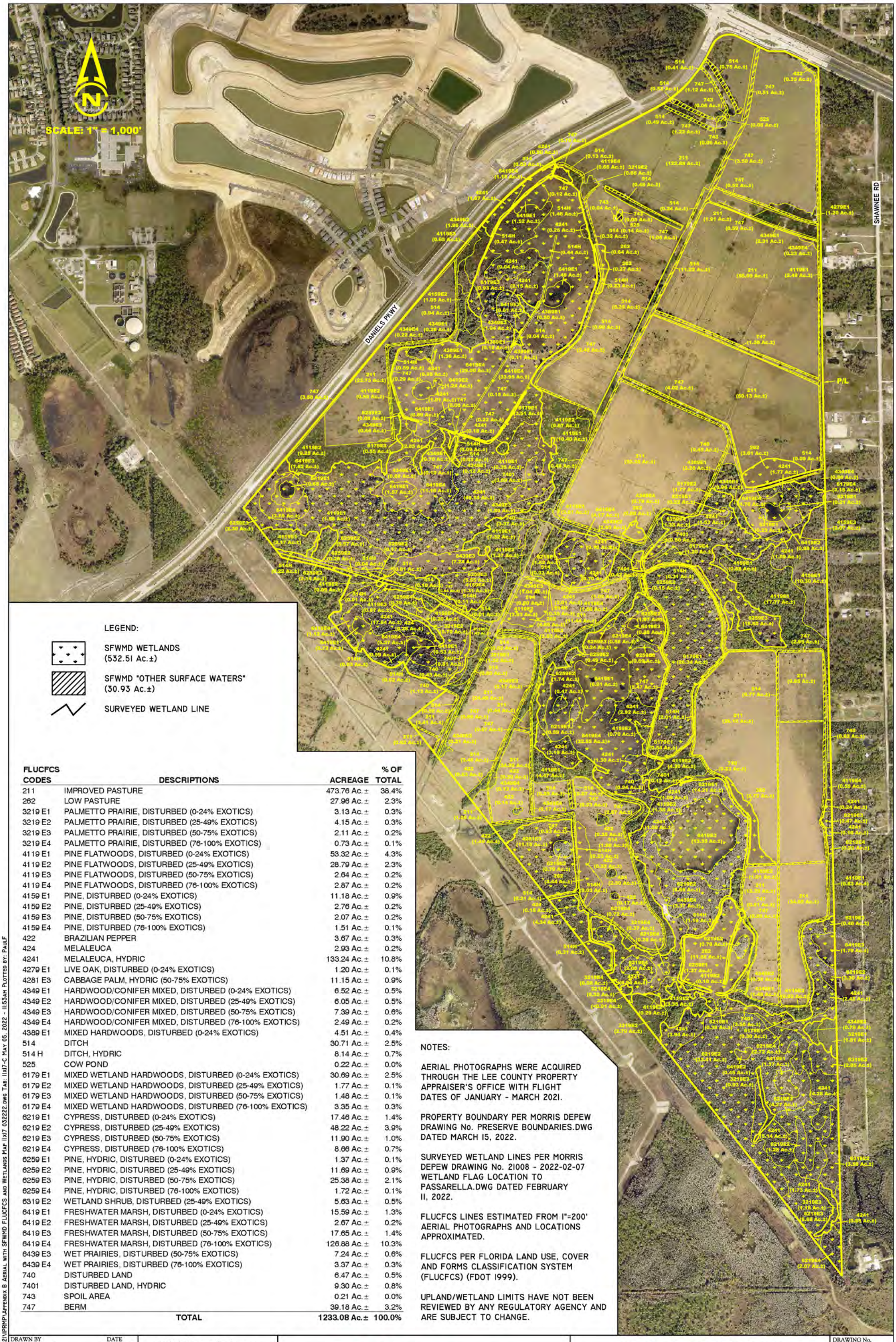
DRAWN BY	DATE
P.F.	11/10/21
REVIEWED BY	DATE
C.R.	11/10/21
REVISED	DATE

PASSARELLA & ASSOCIATES INC
Consulting Ecologists

J:\2019\19LL3192\GIS\2021\PRMP\APPENDIX\APPENDIX_A_PROJECT_LOCATION_MAP.MXD - 12/17/2021 @ 12:39:53 PM

APPENDIX B

AERIAL WITH SFWMD FLUCFCS AND WETLANDS MAP



LEGEND:

- SFWMD WETLANDS (532.51 Ac.±)
- SFWMD "OTHER SURFACE WATERS" (30.93 Ac.±)
- SURVEYED WETLAND LINE

FLUCFCS CODES	DESCRIPTIONS	ACREAGE	% OF TOTAL
211	IMPROVED PASTURE	473.76 Ac.±	38.4%
262	LOW PASTURE	27.96 Ac.±	2.3%
3219 E1	PALMETTO PRAIRIE, DISTURBED (0-24% EXOTICS)	3.13 Ac.±	0.3%
3219 E2	PALMETTO PRAIRIE, DISTURBED (25-49% EXOTICS)	4.15 Ac.±	0.3%
3219 E3	PALMETTO PRAIRIE, DISTURBED (50-75% EXOTICS)	2.11 Ac.±	0.2%
3219 E4	PALMETTO PRAIRIE, DISTURBED (76-100% EXOTICS)	0.73 Ac.±	0.1%
4119 E1	PINE FLATWOODS, DISTURBED (0-24% EXOTICS)	53.32 Ac.±	4.3%
4119 E2	PINE FLATWOODS, DISTURBED (25-49% EXOTICS)	28.79 Ac.±	2.3%
4119 E3	PINE FLATWOODS, DISTURBED (50-75% EXOTICS)	2.64 Ac.±	0.2%
4119 E4	PINE FLATWOODS, DISTURBED (76-100% EXOTICS)	2.87 Ac.±	0.2%
4159 E1	PINE, DISTURBED (0-24% EXOTICS)	11.18 Ac.±	0.9%
4159 E2	PINE, DISTURBED (25-49% EXOTICS)	2.76 Ac.±	0.2%
4159 E3	PINE, DISTURBED (50-75% EXOTICS)	2.07 Ac.±	0.2%
4159 E4	PINE, DISTURBED (76-100% EXOTICS)	1.51 Ac.±	0.1%
422	BRAZILIAN PEPPER	3.67 Ac.±	0.3%
424	MELALEUCA	2.93 Ac.±	0.2%
4241	MELALEUCA, HYDRIC	133.24 Ac.±	10.8%
4279 E1	LIVE OAK, DISTURBED (0-24% EXOTICS)	1.20 Ac.±	0.1%
4281 E3	CABBAGE PALM, HYDRIC (50-75% EXOTICS)	11.15 Ac.±	0.9%
4349 E1	HARDWOOD/CONIFER MIXED, DISTURBED (0-24% EXOTICS)	6.52 Ac.±	0.5%
4349 E2	HARDWOOD/CONIFER MIXED, DISTURBED (25-49% EXOTICS)	6.05 Ac.±	0.5%
4349 E3	HARDWOOD/CONIFER MIXED, DISTURBED (50-75% EXOTICS)	7.39 Ac.±	0.6%
4349 E4	HARDWOOD/CONIFER MIXED, DISTURBED (76-100% EXOTICS)	2.49 Ac.±	0.2%
4389 E1	MIXED HARDWOODS, DISTURBED (0-24% EXOTICS)	4.51 Ac.±	0.4%
514	DITCH	30.71 Ac.±	2.5%
514 H	DITCH, HYDRIC	8.14 Ac.±	0.7%
525	COW POND	0.22 Ac.±	0.0%
6179 E1	MIXED WETLAND HARDWOODS, DISTURBED (0-24% EXOTICS)	30.69 Ac.±	2.5%
6179 E2	MIXED WETLAND HARDWOODS, DISTURBED (25-49% EXOTICS)	1.77 Ac.±	0.1%
6179 E3	MIXED WETLAND HARDWOODS, DISTURBED (50-75% EXOTICS)	1.48 Ac.±	0.1%
6179 E4	MIXED WETLAND HARDWOODS, DISTURBED (76-100% EXOTICS)	3.35 Ac.±	0.3%
6219 E1	CYPRESS, DISTURBED (0-24% EXOTICS)	17.46 Ac.±	1.4%
6219 E2	CYPRESS, DISTURBED (25-49% EXOTICS)	48.22 Ac.±	3.9%
6219 E3	CYPRESS, DISTURBED (50-75% EXOTICS)	11.90 Ac.±	1.0%
6219 E4	CYPRESS, DISTURBED (76-100% EXOTICS)	8.66 Ac.±	0.7%
6259 E1	PINE, HYDRIC, DISTURBED (0-24% EXOTICS)	1.37 Ac.±	0.1%
6259 E2	PINE, HYDRIC, DISTURBED (25-49% EXOTICS)	11.69 Ac.±	0.9%
6259 E3	PINE, HYDRIC, DISTURBED (50-75% EXOTICS)	25.38 Ac.±	2.1%
6259 E4	PINE, HYDRIC, DISTURBED (76-100% EXOTICS)	1.72 Ac.±	0.1%
6319 E2	WETLAND SHRUB, DISTURBED (25-49% EXOTICS)	5.63 Ac.±	0.5%
6419 E1	FRESHWATER MARSH, DISTURBED (0-24% EXOTICS)	15.59 Ac.±	1.3%
6419 E2	FRESHWATER MARSH, DISTURBED (25-49% EXOTICS)	2.67 Ac.±	0.2%
6419 E3	FRESHWATER MARSH, DISTURBED (50-75% EXOTICS)	17.65 Ac.±	1.4%
6419 E4	FRESHWATER MARSH, DISTURBED (76-100% EXOTICS)	126.88 Ac.±	10.3%
6439 E3	WET PRAIRIES, DISTURBED (50-75% EXOTICS)	7.24 Ac.±	0.6%
6439 E4	WET PRAIRIES, DISTURBED (76-100% EXOTICS)	3.37 Ac.±	0.3%
740	DISTURBED LAND	6.47 Ac.±	0.5%
7401	DISTURBED LAND, HYDRIC	9.30 Ac.±	0.8%
743	SPOIL AREA	0.21 Ac.±	0.0%
747	BERM	39.18 Ac.±	3.2%
	TOTAL	**1233.08 Ac.±**	**100.0%**

NOTES:

AERIAL PHOTOGRAPHS WERE ACQUIRED THROUGH THE LEE COUNTY PROPERTY APPRAISER'S OFFICE WITH FLIGHT DATES OF JANUARY - MARCH 2021.

PROPERTY BOUNDARY PER MORRIS DEPEW DRAWING No. PRESERVE BOUNDARIES.DWG DATED MARCH 15, 2022.

SURVEYED WETLAND LINES PER MORRIS DEPEW DRAWING No. 21008 - 2022-02-07 WETLAND FLAG LOCATION TO PASSARELLA.DWG DATED FEBRUARY 11, 2022.

FLUCFCS LINES ESTIMATED FROM 1"=200' AERIAL PHOTOGRAPHS AND LOCATIONS APPROXIMATED.

FLUCFCS PER FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCFCS) (FDOT 1999).

UPLAND/WETLAND LIMITS HAVE NOT BEEN REVIEWED BY ANY REGULATORY AGENCY AND ARE SUBJECT TO CHANGE.

J:\2019\19-111\3192\12\PRMP\APPENDIX B AERIAL WITH SFWMD FLUCFCS AND WETLANDS MAP 11x17 032222.DWG TAB: 11x17-C MAY 05, 2022 - 11:53AM PLOTTED BY: PAULF

DRAWN BY	DATE
P.F./T.S.	3/22/22
REVIEWED BY	DATE
J.T./B.T.	3/22/22
REVISED	DATE

13620 Metropolis Avenue
Suite 200
Ft. Myers, FL 33912
Phone (239) 274-0067
Fax (239) 274-0069

Passarella & Associates, Inc.
Consulting Ecologists

DANIELS ROAD SOUTH

AERIAL WITH SFWMD FLUCFCS AND WETLANDS MAP

DRAWING No. 19111 3192

SHEET No. APPENDIX B

APPENDIX C

LEE COUNTY INDIGENOUS VEGETATION PRESERVATION, RESTORATION, AND MANAGEMENT PLAN

PROJECT LOCATION

LEGEND

- Daniels Parkway South
- Conservation Area (679.1 Ac.±)
- Indigenous Wetland Preserve and Enhancement (205.7 Ac.±)
- Indigenous Wetland Restoration (301.5 Ac.±)
- Indigenous Upland Preserve Enhancement (90.1 Ac.±)
- Indigenous Upland Restoration (58.1 Ac.±)
- Other Surface Waters to be Restored to Indigenous Wetlands (2.5 Ac.±)
- Other Surface Waters to be Restored to Indigenous Uplands (4.4 Ac.±)
- Berms to be Restored to Indigenous Wetlands (11.2 Ac.±)
- Berms to be Restored to Indigenous Uplands (5.6 Ac.±)
- Southwest Florida International Airport 10,000' Hazardous Wildlife Buffer
- Approximate Location of Flow Path
- Approximate Location of Culvert Connection

N W E S

0 500 1,000

Feet

NOTES:

PROPERTY BOUNDARY AND PRESERVE AREA PER MORRIS DEPEW DRAWING No. PRESERVE BOUNDARIES & PROPERTY BOUNDARY.DWG DATED MAY 2, 2022.

SITE PLAN PER MORRIS DEPEW DRAWING No. 21008-01 PARCELS.DWG DATED MAY 3, 2022.

SWFIA 10,000' HAZARDOUS WILDLIFE BUFFER PER MORRIS DEPEW DRAWING No. 21008-01 X-102 OPEN SPACE.DWG DATED APRIL 25, 2022.

FLUCFCS LINES ESTIMATED FROM 1"=200' AERIAL PHOTOGRAPHS AND LOCATIONS APPROXIMATED.

FLUCFCS PER FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCFCS) (FDOT 1999).

UPLAND/WETLAND LIMITS WERE FIELD REVIEWED AND APPROVED BY SFWMD STAFF ON JANUARY 14, 20, AND 21, 2022.

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DRAWN BY	DATE
T.S.	11/11/21
REVIEWED BY	DATE
C.R.	11/11/21
REVISED	DATE
T.S.	5/3/22

13620 Metropolis Avenue
Suite 200
Fort Myers, Florida 33912
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Fax (239) 274-0069

Passarella & Associates, Inc. Consulting Ecologists

DANIELS PARKWAY SOUTH
INDIGENOUS VEGETATION PRESERVATION, RESTORATION, AND MANAGEMENT PLAN

DRAWING No. 19LLL3192

SHEET No. APPENDIX C

APPENDIX D

LCPA COMPATIBLE AND NON-COMPATIBLE PLANT LIST

LCPA Compatible and Non-Compatible Plant List

LCPA worked in conjunction with a Federal Aviation Administration (FAA) Qualified Airport Wildlife Biologist and local landscape architects to develop compatible and incompatible plant lists. In general, the goal is to reduce or eliminate landscaping materials that would provide food, water, or shelter and/or a combination of these basic needs that attract either large flocks of birds or birds that pose a high risk to aviation. For example, flocks of blackbirds, large raptors, flocks of ducks, large wading birds, or flocks of shorebirds could pose a high risk to aviation.

The landscape list categories are described below and a list of species for each category is provided in Table 1. The table provides a breakdown of each category by native and non-native trees/palms, shrubs, and grasses/groundcovers that are suitable for the southwest Florida environment. Please note that this list is provided for guidance only. Exception may be warranted due to additional requirements or site specific constraints.

Compatible – Group 1

Plant materials listed under this category are not known to attract high risk species or flocking birds. While all plants have the ability to provide some type of attractant to wildlife (including prey base for hazardous species), Group 1 species are considered compatible and can be used in any number, density, or arrangement. If a wildlife hazard attractant arises that could pose a threat to aviation, LCPA will work with Lee County staff and the landowner to determine if measures could be put in place to reduce the attractant.

Compatible – Group 2

Plant materials listed under this category may attract high risk species or flocking birds under certain circumstances. No large groupings of these species should be utilized in an effort to minimize their attractiveness to wildlife. The allowable size grouping of these species will vary based on the site setting and should be reviewed on a case by case basis. The corresponding note to the Group 2 species in Table 1 will explain restrictions or guidance on using the plant materials. If these plants are planned for use, LCPA staff should be included in review of the landscape plan. If a wildlife hazard attractant arises that could pose a threat to aviation, LCPA will work with Lee County staff and the landowner to determine if measures could be put in place to reduce the attractant.

Non-Compatible

Plant materials listed under this category are known to attract high risk species or flocking birds. Species on this list are not recommended for use.

Table 1: LCPA Landscape List (April 2016 Update)

Common Name	*Scientific Name*	Compatible		Incompatible
		Group 1	Group 2	
Native Trees / Palms				
Gumbo Limbo	*Bursera simaruba*	X		
Green Buttonwood	*Conocarpus erectus*	X		
Silver Buttonwood	*Conocarpus erectus var. sericeus*	X		
Orange Geiger	*Cordia sebestena*	X		
Loblolly Bay	*Gordonia lasianthus*	X		
Florida Anise	*Illicum floridanum*	X		
Swamp Bay	*Persea palustris*	X		
Jamaican Dogwood	*Piscidia piscipula*	X		
Mahogany	*Swietenia mahogany*	X		
Paurotis Palm	*Acoelorrhaphe wrightii*	X		
Royal Palm	*Roystonea regia*	X		
Jamacia caper	*Capparis cynophallophora*	X		
Sweetgum	*Liquidambar styraciflua*	X		
Florida Soapberry	*Sapindus saponaria*	X		
Florida Thatch Palm	*Thrinax radiata*	X		
Dahoon Holly (male only)	*Ilex cassine*		X	
Yaupon Holly (male only)	*Ilex vomitoria*		X	
Sweetbay Magnolia	*Magnolia virginiana*		X	
South Florida Slash Pine	*Pinus elliottii var. densa*		X	
Laurel Oak	*Quercus laurifolia*		X	
Cypress	*Taxodium spp.*		X	
Cabbage Palm	*Sabal palmetto*		X	
Red Maple	*Acer rubrum*			X
Pond Apple	*Annona glabra*			X
Satin Leaf	*Chrysophyllum oliviforme*			X
Pigeon Plum	*Coccoloba diversifolia*			X

Table 1: LCPA Landscape List (April 2016 Update)

Common Name	*Scientific Name*	Compatible		Incompatible
		Group 1	Group 2	
Sea Grape	*Coccoloba uvifera*			X
Florida Silver Palm	*Coccothrinax argentata*			X
Pop Ash	*Fraxinua caroliniana*			X
Southern Red Cedar	*Juniperus silicicola*			X
Mastic	*Mastichodendron foetidissimum*			X
Wax Myrtle	*Myrica cerifera*			X
Live Oak	*Quercus virginiana*			X
American Elm	*Ulmus americana*			X
Non-Native Trees/Palms				
Shady Lady / Black Olive	*Bucida buceras*	X		
Crapemyrtle	*Lagerstoemia spp.*	X		
Verawood	*Bulnesia arborea*	X		
Bismark Palm	*Bismarchia nobilis*	X		
Orange Geiger	*Cordia sebestena*	X		
Floss Silk Tree	*Chorisia speciosa*	X		
Gold Tabebuia	*Tabebuia chrysotricha*	X		
Purple Tabebuia	*Tabebuia impetiginosa*	X		
Montgomery palm	*Veitchia montgomeryana*	X		
Silver Thatch Palm	*Thrinax morrissi*	X		
Blue Atlas Cedar	*Cedrus atlantica* 'Glauca'	X		
Royal poinciana	*Delonix regia*	X		
Yellow Elder	*Tecoma stans*	X		
White Bird of Paradise	*Strelitzia reginae*	X		
Jaboticaba Tree	*Myrciaria cauliflora*	X		
Lignum Vitae	*Guaiacum sanctum*	X		
Bottlebrush	*Callistemon spp.*	X		
Chinese Fan Palm	*Livistona chinensis*	X		
Macarthur Palm	*Ptychosperma macarthurii*	X		
Native Shrubs				
Small Leaf Clusia	*Clusia guttifera*	X		
Blue Porterweed	*Statytarpheta urticifolia*	X		

Table 1: LCPA Landscape List (April 2016 Update)

Common Name	*Scientific Name*	Compatible		Incompatible
		Group 1	Group 2	
Bahama Cassia	*Cassia bahamensis*	X		
Pitch Apple	*Clusia rosea*	X		
Adam's Needle	*Yucca filamentosa*	X		
Coastal Sea Rocket	*Cakile lanceolata*	X		
Jamacia caper	*Capparis cynophallophora*	X		
Golden Dewdrop	*Duranta erecta*	X		
Coral Bean	*Erythrina herbacea*	X		
Wild Cotton	*Gossypium hirsutum*	X		
Wild Sage	*Lantana involucrate*	X		
Rusty Lyonia	*Lyonia ferruginea*	X		
Gallberry/Inkberry	*Ilex glabra*	X		
Maidenbush	*Heterosavia bahamaensis*	X		
Dwarf Yaupon Holly (male only)	*Ilex vomitoria*		X	
Firebush	*Hamelia patens*		X	
Yellow Necklacepod	*Sophora tomentosa var. truncata*		X	
Green Saw Palmetto	*Serenoa repens*		X	
American Beautyberry	*Callicarpa americana*			X
Cocoplum	*Chrysobalanus icaco*			X
Spanish Stopper	*Eugenia foetida*			X
Florida Privet	*Forestiera segregata*			X
Simpson Stopper	*Myrcianthes fragrans*			X
Myrsine	*Myrsine cubana*			X
Wild Coffee	*Psychotria nervosa*			X
Shiny Blueberry	*Vaccinium myrsinites*			X
Wild Lime	*Zanthoxylum fagara*			X
Walter's Viburnum	*Viburnum obovatum*			X
Non-Native Shrubs				
Golden Thryallis	*Galphimia gracillis*	X		
Ixora "Nora Grant"	*Ixora "Nora Grant"*	X		
Jatropha	*Jatropha integerrima*	X		

Table 1: LCPA Landscape List (April 2016 Update)

Common Name	*Scientific Name*	Compatible		Incompatible
		Group 1	Group 2	
Dwarf Poinciana	*Caesalpinia pulcherrima*	X		
Green Pitosporum	*Pittosporum tobira 'Wheeleri'*	X		
Blue Plumbago	*Plumbago auriculata*	X		
Yesterday-Today-Tomorrow	*Brunfelsia grandiflora*	X		
Native Grasses & Groundcover				
Sword Fern	*Nephrolepis exaltata*	X		
Leather fern	*Acrostichum danaeifolium*	X		
Sunshine mimosa, powderpuff	*Mimosa strigillosa*	X		
Coontie	*Zamia pumila*	X		
Chalky Bluestem	*Andropogon virginicus var. glaucus*	X		
Wiregrass	*Aristida beyrichiana*	X		
Muhlygrass	*Muhlenbergia capillaris*	X		
Grassleaf Golden Aster	*Pityopsis graminifolia*	X		
Dwarf Blue Porterweed	*Statytarpheta jamaicensis*	X		
Narrowleaf Blue-Eyed Grass	*Sisyrinchium angustifolium*	X		
Fakahatchee Grass	*Tripsacum dactyloides*		X	
Sand Cordgrass	*Spartina bakeri*		X	
Golden Creeper	*Ernodea littoralis*			X
Purple Love Grass	*Eragrostis spectabilis*			X
Gopher Apple	*Licania michauxii*			X
Non-Native Grasses & Groundcover				
Orange Bromeliad	*Aechmea blanchetiana*	X		
Imperial Bromeliad	*Aechmea imperialis*	X		
Dwarf Bougainvillea	*Bougainvillea sp.*	X		
Crinum Lily	*Crinum asiaticum*	X		
Purple Lantana	*Lantana montevidensis*	X		
Yellow Lantana	*Lantana camara*	X		
Variegated Ginger	*Alpinia zerumbet "Variegata"*	X		
Liriope “Emerald Goddess”	*Liriope muscari*	X		

Table 1: LCPA Landscape List (April 2016 Update)

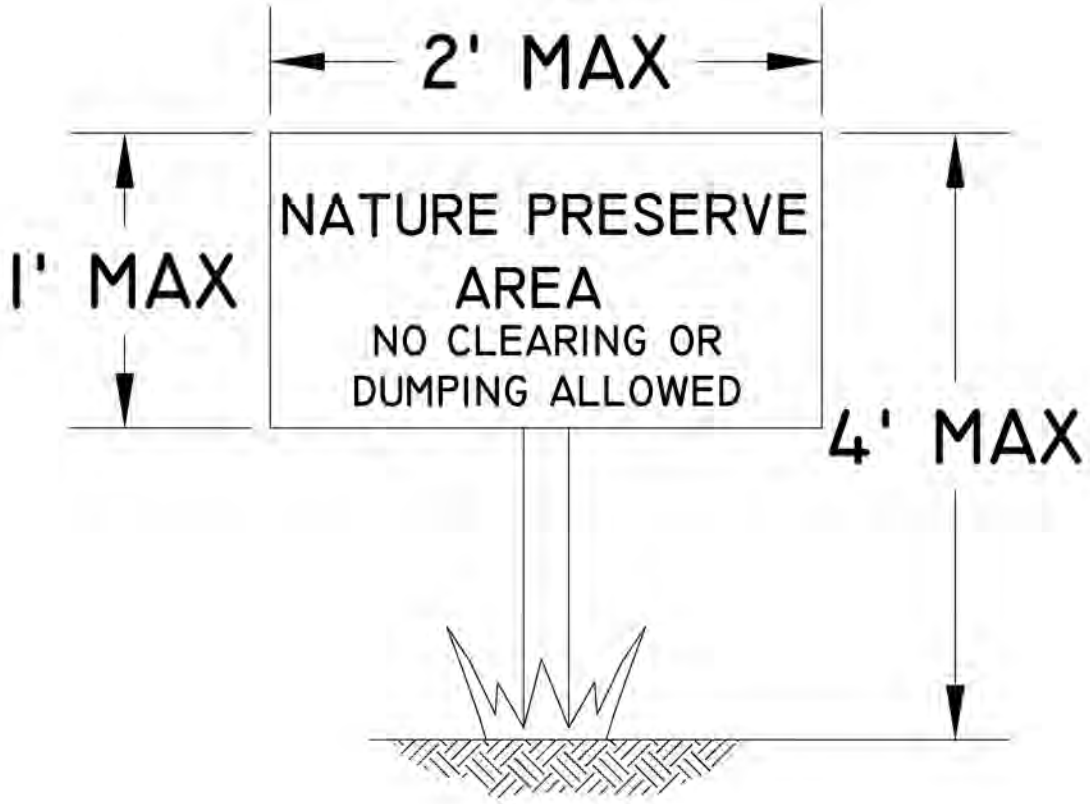
Common Name	*Scientific Name*	Compatible		Incompatible
		Group 1	Group 2	
Crown of Thorns	*Euphorbia milii*	X		
African Iris	*Dietes spp*	X		
Bulbine	*Bulbine frutescens*	X		
Lily of the Nile	*Agapanthus orientalis*	X		
Society Garlic	*Tulbaghia violacea*	X		
Blueberry Flax Lily	*Dianella tasmanicata 'Variegata'*	X		
Yellow Alder	*Turnera ulmifolia*	X		
Gulf Croton	Croton punctatus	X		
Ligustrum	*Ligustrum japonicum*			X
Fountain grass	*Pennisetum setaceum*			X
Indian hawthorn	*Rhaphiolepsis indica*			X
Parson's juniper	*Juniperus squamata expansa*			X
Perennial Peanut	*Arachis glabrata*			X
Native Wildflowers				
Butterfly Weed	*Asclepias tuberosa*	X		
Leavenworth's Tickseed	*Coreopsis leavenworthii*	X		
Button Snakeroot	*Eryngium yuccifolium*	X		
Blanket Flower	*Gaillardia pulchella*	X		
Florida Pennyroyal	*Piloblephis rigida*	X		
Wild Petunia	*Ruellia caroliniensis*	X		
Tropical Sage	*Salvia coccinea*	X		
Adam's Needle	*Yucca filamentosa*	X		
Beach Sunflower	*Helianthus debilis*		X	
Native Wetland Plants				
Lemon Bacopa	*Bacopa caroliniana*	X		
Water Hyssop	*Bacopa monnieri*	X		
String Lily	*Crinum americanum*	X		
Knotted Spikerush	*Eleocharis interstincta*	X		

Table 1: LCPA Landscape List (April 2016 Update)

Common Name	*Scientific Name*	Compatible		Incompatible
		Group 1	Group 2	
Perfumed Spiderlily	*Hymenocallis latifolia*	X		
Cinnamon Fern	*Osmunda cinnamomea*	X		
Alligator Flag	*Thalia geniculata*	X		
Black Needle Rush	*Juncus roemerianus*			X
Pickerelweed	*Pontederi cordata*			X
Arrowhead, Duck Potato	*Sagittaria spp.*			X

APPENDIX E

TYPICAL PRESERVE SIGNAGE



TYPICAL
PRESERVE SIGNAGE
N.T.S.

APPENDIX E. TYPICAL PRESERVE SIGNAGE
DANIELS PARKWAY SOUTH

DRAWN BY	DATE
P.F.	11/10/21
REVIEWED BY	DATE
C.R.	11/10/21
REVISED	DATE

PASSARELLA & ASSOCIATES INC
Consulting Ecologists

EXHIBIT D

OF ENVIRONMENTAL REPORTS
EXHIBITS – M12 & T7

PROTECTED SPECIES MANAGEMENT & HUMAN WILDLIFE COEXISTENCE

DANIELS PARKWAY SOUTH
PROTECTED SPECIES MANAGEMENT
AND HUMAN-WILDLIFE COEXISTENCE PLAN

Revised May 2022

Prepared For:

Lennar
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Prepared By:

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Project No. 19LLL3192

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1.0 INTRODUCTION

This report documents the Protected Species Management and Human-Wildlife Coexistence Plan for Daniels Parkway South (Project). The management plan contained in this report pertains to the Eastern indigo snake (*Drymarchon corais couperi*), gopher tortoise (*Gopherus polyphemus*), American alligator (*Alligator mississippiensis*), crested caracara (*Caracara cheriway*), listed wading birds, Big Cypress fox squirrel (*Sciurus niger avicennia*), Florida black bear (*Ursus americanus floridanus*), and Florida panther (*Puma concolor coryi*).

The Project totals 1,233.08± acres and is located in Sections 8, 9, 16, 17, and 21; Township 45 South; Range 26 East; Lee County (Appendix A). The site is bordered to the north by Daniels Parkway, to the east by single-family residential development and undeveloped land, to the west by a Florida Power & Light (FPL) transmission line and undeveloped land, and to the south by Lee County's Wild Turkey Strand Preserve.

The property consists of large, continuous portions of herbaceous and forested upland and wetland habitats. These habitats include hydric melaleuca, freshwater marsh, pine flatwoods, cypress, and hydric pine with varying degrees of exotic vegetation. Improved pasture comprises the remaining balance of the property. Historic aerials show the property was formerly used for agricultural operations. As part of the historic agricultural surface water management, an extensive network of ditches and berms have been constructed on the property which has led to the partitioning of wetland systems within the site. This includes a historic farm road that bisects the site and precludes hydrologic connectivity between wetland systems located in the northern and southern portions of the property. This road has been used by the South Florida Water Management District (SFWMD) to represent the dividing line between the Estero River and Six Mile Cypress sub-watersheds.

2.0 LISTED SPECIES SURVEYS

Passarella & Associates, Inc. (PAI) conducted a Lee County protected species survey (PSS) on the Project site for ten days between May 11 and June 24, 2021. The survey was conducted to meet Lee County Land Development Code (LDC) Chapter 10, Article III, Division 8 (Protection of Habitat) standards. Six Lee County protected species and their signs (e.g., scat, tracks, nests, etc.) were documented during the PSS and other fieldwork conducted by PAI. The protected wildlife species directly observed by PAI included gopher tortoise, crested caracara, Florida sandhill crane (*Grus canadensis pratensis*), wood stork (*Mycteria americana*), and Big Cypress fox squirrel. In addition, a crested caracara nest was previously documented in the northern portion of the Project, and Florida panther tracks were also documented on the property. No other listed species nests or nesting activity were observed on the Project during the PSS or other fieldwork.

No Lee County protected plant species were observed on the property during the protected species survey. However, the giant wild pine (*Tillandsia utriculata*), common wild pine (*Tillandsia fasciculata*), Northern needleleaf (*Tillandsia balbisiana*), butterfly orchid (*Encyclia tampensis*), and rigid orchid (*Epidendrum rigidum*) were documented on the site. Although not listed as Lee

County protected species, these species are listed by the Florida Department of Agriculture and Consumer Services.

Table 1 summarizes the listed wildlife species that have been documented during the PSS and other fieldwork on the Project site.

Table 1. Listed Wildlife Species Documented

Common Name	Scientific Name	Listing Status	
		FWCC	USFWS
Reptiles			
Gopher tortoise	*Gopherus polyphemus*	ST	*
Birds			
Crested caracara	*Caracara cheriway*	FT	T
Florida sandhill crane	*Grus canadensis pratensis*	ST	-
Wood stork	*Mycteria americana*	FE	E
Mammals			
Big Cypress fox squirrel	*Sciurus niger avicennia*	ST	-
Florida panther (tracks)	*Puma concolor coryi*	FE	E

FWCC – Florida Fish and Wildlife Conservation Commission
USFWS – U.S. Fish and Wildlife Service
E – Endangered
FE – Federally Endangered
FT – Federally Threatened
ST – State Threatened
T – Threatened

3.0 CONSERVATION AREAS

The proposed conservation areas total 679.10± acres. The conservation areas will be maintained in accordance with the Indigenous Preservation, Restoration, and Management Plan provided under separate cover. The conservation areas will be managed to provide habitat for listed species.

The Project has been designed to minimize impacts to the listed species that have been identified on the property and other listed wildlife species that could potentially utilize the site. The site plan minimizes impacts to existing native vegetation habitats and concentrates development primarily within the existing agricultural lands.

The indigenous vegetation enhancement and restoration activities within the conservation areas include:

- Preservation and enhancement of 295.80± acres of indigenous wetlands and uplands (existing forested and herbaceous habitats with less than 75 percent exotics);

- Restoration of 359.60± acres of indigenous wetlands and uplands through the removal of exotic vegetation (existing forested and herbaceous habitats with greater than 75 percent exotics) and supplemental planting;
- Backfilling 6.9± acres of other surface waters and replanting with native wetland and upland vegetation; and
- Removal of 16.8± acres of berms and planting with native wetland and upland vegetation.

The preservation, enhancement, and restoration of indigenous vegetation and removal of agricultural berms will facilitate the interconnection of historic flow-ways and wetland communities within the Project site. This includes a hydrologic connection between the two historically severed basins (i.e., Six Mile Cypress Sub-Watershed and Estero River Sub-Watershed), similar to what existed prior to the intensive agricultural land uses.

Due to the proximity to Southwest Florida International Airport (SWFIA), the restoration activities will include like-for-like habitat restoration to minimize wildlife attractants. For example, a melaleuca forest will be replaced with native trees and an exotic-infested marsh will be replanted with herbaceous vegetation. Plantings within the SFWIA 10,000-foot Hazardous Wildlife Buffer (Buffer) will be consistent with Lee County Port Authority's (LCPA) Compatible Native Landscape List. The planting details are provided in the Indigenous Preservation, Restoration, and Management Plan provided under separate cover.

The conservation areas will be managed for listed species based on habitat type and currently listed species utilization. Target listed species include the Eastern indigo snake, gopher tortoise, American alligator, crested caracara, listed wading birds, Big Cypress fox squirrel, Florida black bear, and Florida panther.

The conservation areas will be placed in a conservation easement with inspection, enforcement, and approval rights granted to Lee County and the SFWMD. The total preserve area to be placed under a conservation easement is 679.10± acres.

4.0 WILDLIFE CROSSINGS

To maintain internal connectivity for wildlife and promote the restoration of historic flow-ways through the property, wildlife crossings will be installed where the proposed internal roads cross the conservation areas. An aerial depicting the proposed location of the wildlife crossings is provided as Appendix B. The wildlife crossings will generally be designed to accommodate the passage of small mammals, reptiles, and amphibians. However, engineering and construction plans at the time of the Lee County Development Order application may reflect larger crossings designed to facilitate movement through the Project site by larger wildlife. As currently proposed, the wildlife crossing will be a culvert pipe or similar structure with the invert at natural grade. A section of low-level chain link fencing (i.e., three to four feet tall), or other structures approved by the Department of Community Development (DCD), will be installed on either side of the invert to direct wildlife through the crossings. If utilized, larger crossings may consist of a bridge, large box culvert, or similar structure.

5.0 PERIMETER BUFFER LAKES AND FENCING

The Project site design includes perimeter buffer lakes and fencing between the residential development and conservation areas. The goal of the buffer lakes and fencing is to effectively deter Florida panther prey species (i.e., white-tailed deer (*Odocoileus virginiana*) and hog (*Sus scrofa*)) from entering residential areas. Deterring prey species form entering the development area will minimize the incentive for Florida panther to enter the Project area and reduce the potential for human-wildlife interactions. The wildlife fence and buffer lakes will also serve to accommodate the movement of wildlife among the conservation areas as described in Section 4.0 above.

The wildlife fencing will consist of a six-foot chain link fence which has previously been approved by the Florida Fish and Wildlife Conservation Commission (FWCC) for projects in Southwest Florida. The locations of the proposed buffer lakes and fencing are depicted on Appendix B.

6.0. COMMERCIAL USES

The Daniels Parkway South Master Plan includes dedicated commercial use adjacent to Daniels Parkway and State Road 82. To minimize potential human-wildlife interaction, educational brochures provided in this plan will be provided to commercial tenants. Commercial development will be required to minimize wildlife attractants by securing all exterior food and water sources.

Commercial uses, including restaurants, must secure exterior trash containers with locking lids and periodically clean cans to reduce residual odors. Grease traps will be located underground. Bear-resistant dumpsters will be used in areas where communal garbage is collected. A list of companies obtained from the FWCC that provide bear-resistant garbage containers for commercial use is provided as Appendix C. In consultation with the local waste disposal company, bear-resistant dumpsters will be purchased from one of the listed companies or another company that is able to provide bear-resistant dumpsters which are compatible with local equipment. The bear-resistant dumpsters will be incorporated at the time Lee County's waste collection sub-contractor makes them available for use.

7.0 HAZARDOUS WILDLIFE PROTECTION MEASURES

Due to the proximity to SWFIA, reducing human-wildlife interactions within the SWFIA Buffer is of paramount importance to the Project's restoration plan. Per communications with LCPA Staff and guidance from the Federal Aviation Administration Advisory Circular No. 150/5200-33C regarding hazardous wildlife attractants on or near airports, the Project has incorporated multiple minimization measures within the Buffer, as described below.

Lakes developed for the Project's stormwater management system will incorporate a hardened shoreline (e.g., rip-rap) and/or steep slopes to minimize wading bird attractants. These lakes will also be maintained in a manner that keeps them free of both emergent and submergent vegetation such as pickerelweed (*Pontederia cordata*) and red ludwigia (*Ludwigia repens*). As required by the Lee Plan, the Project must preserve, enhance, and restore indigenous habitats. However, to

avoid inconsistency with the LCPA's wildlife hazard deterrence efforts, the Project will not create wetlands within the Buffer. Existing wetland and upland habitats will be managed such that they are restored, where applicable, in a "like-for-like" manner as described in Section 3.0 above. In addition, plantings installed within the Buffer will adhere to the LCPA Compatible Native Plant List. Furthermore, the hydrologic restoration proposed within the conservation areas will be focused on interconnecting wetland systems and is not anticipated to increase wetland hydroperiods within the site.

Prior to construction, the applicant will coordinate a wildlife monitoring program with the LCPA and DCD staff. The monitoring program will consist of periodic observations within the development footprint by a qualified biologist to help identify and reduce potential wildlife hazards during construction activities such as dewatering and other site preparation activities. In addition, the monitoring plan will include specific construction-related Best Management Practices (BMPs) similar to what has been implemented for projects at Southwest Florida International Airport.

8.0 EASTERN INDIGO SNAKE MANAGEMENT PLAN

The Eastern indigo snake has not been documented on-site; however, the following plan outlines the protection guidelines that will be implemented for the Eastern indigo snake during clearing operations for the Project. The plan provides educational material and guidelines for construction personnel to follow in the event they encounter an Eastern indigo snake. The plan has been prepared following the guidelines established by the U.S. Fish and Wildlife Service (USFWS). The Eastern indigo snake is a federally threatened species and is listed by the Endangered Species Act (ESA). It is unlawful for anyone to injure, harm, harass, or kill this species. Persons who knowingly violate provisions of the ESA that afford this species protection may be subject to a fine and/or imprisonment.

8.1 Biology

The Eastern indigo snake is a large, non-poisonous, glossy black snake with smooth iridescent scales. The chin and throat may be rusty or white-blotched. The juvenile snakes are similar to the adults, but may be lighter and exhibit a blotched dorsal pattern. Adults can grow to lengths over eight feet. The Eastern indigo snake might be confused with the black racer (*Coluber constrictor*), but the black racer exhibits a white or brown throat and is smaller and lighter in build.

The Eastern indigo snake inhabits a range of habitat types including pine flatwoods and wet prairies. Individuals are wide ranging and may utilize an area of 250 acres or more. Eastern indigo snakes are known to shelter in gopher tortoise burrows. The Eastern indigo snake is diurnal (active only during the daytime) and will actively search for prey. Prey may include frogs, snakes, birds, and small mammals. Very little is known of the reproduction of this species in the wild. Breeding is believed to occur during the winter and early spring months with up to 11 large white eggs being deposited in late spring and early summer.

8.2 Management Plan

The USFWS' Standard Protection Measures for the Eastern Indigo Snake (2013) will be followed prior to and during construction activities. The Standard Protection Measures include the placement of posters at strategic locations on the construction site and along proposed access roads clearly visible to construction staff. The posters include a description and photograph of the Eastern indigo snake, its protection status, and instructions in the event that one is observed. In addition, informational brochures will be provided to all construction staff.

The Project will preserve, enhance, and restore 679.10± acres of existing vegetation on-site through the removal of exotic vegetation. The preserve areas will be maintained per the Project's Indigenous Preservation, Restoration, and Management Plan and will provide habitat for the Eastern indigo snake.

Problematic encounters between future residents and Eastern indigo snakes are not anticipated. Construction personnel, maintenance staff, and homeowners will be informed that the Eastern indigo snake is a protected species.

9.0 GOPHER TORTOISE MANAGEMENT PLAN

One gopher tortoise was observed on the Project site during the PSS. The following plan outlines the management activities that will be implemented for the gopher tortoise prior to the implementation of site clearing. The gopher tortoise is listed as threatened by the FWCC.

9.1 Biology

The gopher tortoise is a large, terrestrial turtle averaging 23 to 28 centimeters (9 to 11 inches) in shell length. Maximum length is around 38 centimeters (15 inches). The gopher tortoise is characterized by stumpy, elephantine hind feet and flattened, shovel-like forelimbs adapted for digging. The tan, brown, or gray carapace (top portion of the shell) is domed and oblong. The plastron (bottom portion of the shell) is somewhat concave in males. Growth annuli may be conspicuous, particularly in juveniles. Hatchlings are approximately 4.4 centimeters (1.7 inches) in length and are yellowish orange in color.

The gopher tortoise occurs in the Southeastern Coastal Plain of the United States from Eastern Louisiana to Southeastern South Carolina and throughout Florida. In Florida, gopher tortoises occur in portions of all 67 counties. Gopher tortoises inhabit a wide variety of upland vegetative communities. Three environmental conditions are especially important for gopher tortoises: well-drained, sandy soil in which to burrow; adequate low-growing herbaceous ground cover for food; and relatively open, sunlit areas for nesting. The gopher tortoise is primarily associated with longleaf pine-scrub oak woodlands (sandhills), but it is also found in sand pine scrub, coastal strands, live oak hammocks, dry prairies, pine flatwoods, and mixed hardwood-pine communities. Disturbed habitats, such

as roadsides, fencerows, clearings, and old fields, often support relatively high tortoise densities.

Gopher tortoises excavate burrows averaging 4.5 meters (14.8 feet) in length and 2 meters (6.6 feet) in depth and wide enough to allow them to turn around at any point. These burrows provide protection from temperature extremes, desiccation, and predators and serve as refuges for a variety of other animals. The placement and depth of burrows vary with the soil type, geographic location, and ground water levels. An individual tortoise may use more than one burrow and may excavate new burrows at any time during its life.

Gopher tortoise densities and movements are affected by the amount of herbaceous ground cover present. Generally, feeding activity is confined to within 50 meters (164 feet) of the burrow. Principal foods include grasses, legumes, and grass-like plants of the sedge and aster families. Legumes appear to be particularly important in the diet of juveniles. Fruits such as blackberries, pawpaws, gopher apples, and saw palmetto (*Serenoa repens*) berries are also consumed.

9.2 Management Plan

After construction is completed, the Project may not contain suitable gopher tortoise habitat within the conservation areas necessary for the long-term survivability of the species. No gopher tortoise burrows were located within the Project site during the PSS. However, if gopher tortoise burrows are located within the development footprint and it is not feasible to provide a minimum 25-foot buffer to the burrows, the applicant will obtain a permit from the FWCC to relocate gopher tortoise(s) to a protected recipient site prior to initiating construction activities. The recipient site will be approved by the FWCC and managed in perpetuity, consistent with FWCC's Gopher Tortoise Management Plan (2012).

10.0 AMERICAN ALLIGATOR MANAGEMENT PLAN

No American alligators were observed on-site during the PSS; however, potential nesting and foraging habitat (i.e., wetlands, and freshwater marshes) exists on-site. The following plan outlines the protection guidelines that will be implemented for the American alligator during clearing operations for the Project. The American alligator is listed as threatened (due to similarity of appearance) by the USFWS and the FWCC.

10.1 Biology

The American alligator is a reptile with an elongated, armored, lizard-like body with a muscular flat tail. Adult alligators are dark with a pale underside while juveniles have bright yellow stripes and blotches. The average size for adults is 8.2 feet for females and 11.2 feet for males. The body weight can reach up to a half ton. American alligators inhabit all counties in the State of Florida and are most common in the major river drainage basins and large lakes in the central and southern portions of the state. They also can be found in marshes, swamps, ponds, drainage canals, phosphate-mine settling ponds, and ditches.

Alligators are tolerant of poor water-quality and occasionally inhabit brackish marshes along the coast. A few even venture into saltwater. Individuals are wide ranging, and some males may utilize an area of two square miles or more. Individuals of both sexes are most likely to become more active and extend their ranges during the April to May courtship and breeding season. Prey may include frogs, snakes, birds, and small mammals, although alligators are opportunistic feeders and may prey on what is readily available. Larger individuals often prefer carrion to fresh meat.

10.2 Management Plan

The proposed Project will not impact the alligator. Alligators commonly move from water body to water body in response to factors such as season, disturbances, food supply, etc. The American alligator is listed as a federally threatened species due to similarity of appearance to the American crocodile (*Crocodylus acutus*). Only representatives of the FWCC are authorized to handle nuisance alligators. If an alligator is present within the limits of construction at the time of clearing, work within the immediate vicinity of the alligator will be halted and the animal will be allowed to move out and into safer territory. Once the alligator has moved, work can be restarted. If an active alligator nest is found, it will be temporarily protected with an adequate buffer zone until the hatchlings leave the nest.

Extensive, high quality American alligator habitat will be provided throughout the property through wetland preservation, enhancement, and restoration. This includes the removal of exotics in approximately 507.2± acres of existing wetlands on the property. These wetlands are predominantly hardwood/conifer, mixed, mixed wetland hardwoods, cypress forest, hydric pine forest, and freshwater marshes habitat types. Invasive exotic removal will result in wetland preserves that are more suitable to alligators and their prey species. The preserve areas will be maintained per the Project's Indigenous Preservation, Restoration, and Management Plan.

To avoid problematic encounters between future residents and American alligators, the FWCC's educational brochure entitled "A Guide to Living with Alligators" (Appendix D) will be provided to homeowners and maintenance staff (see Section 16.2).

11.0 CRESTED CARACARA MANAGEMENT PLAN

Two crested caracara were observed on the Project site during the PSS. In addition, a crested caracara nest was previously documented in the northern portion of the property. This nest was active during the 2020-2021 caracara nesting season. The following management plan outlines the protection guidelines that will be implemented for the crested caracara prior to clearing activities on the Project and addresses habitat enhancement and restoration on the site. The crested caracara is listed as threatened by the USFWS and the FWCC.

11.1 Biology

The crested caracara is a large, non-migratory raptor that feeds both on prey and carrion and is often found with flocks of turkey vultures (*Cathartes aura*) and black vultures (*Coragyps atratus*). The population of crested caracara found in peninsular Florida is genetically isolated from other populations of crested caracara subspecies found in the Southwestern United States and portions of Central and South America (USFWS 1999). While other subspecies of crested caracara are not listed as threatened or endangered, the crested caracara subspecies found in Florida was listed in July 1987 as threatened under the ESA.

Crested caracaras primarily use open habitats including native prairies; grasslands and pastures with their associated freshwater marshes; and small clumps of cabbage palms (*Sabal palmetto*), live oak (*Quercus* spp.) hammocks, and cypress (*Taxodium* spp.). Cabbage palms in open habitats are of high importance for nesting (Rodgers *et al.* 1996, Morrison 2001). The primary nesting season for the crested caracara is November through April. Egg laying typically occurs December through February. Clutch size is one to three eggs and incubation ranges from 28 to 32 days. Caracara young fledge at age seven to eight weeks, mostly in March and April (Wood 2001).

11.2 Management Plan

Since a caracara nest has been documented in the northern portion of the Project site, it is anticipated that removal of the nest tree(s) will be negotiated with the USFWS as part of the State 404 permitting process. Prior to clearing activities, a qualified ecologist will survey the construction impact area and adjacent habitats for the presence of crested caracara nests. The removal of any caracara nests located within the Project site will be coordinated with USFWS and DCD staff prior to initiation of construction activities.

The completed Project will preserve, enhance, and restore 679.10± acres of native habitat. The conservation areas will contain open freshwater marsh and pine habitat that will provide potential foraging opportunities caracaras.

Problematic encounters between future residents and crested caracaras are not anticipated. Should a caracara choose to nest adjacent to the community or close to approved access areas within the preserves, the nest will be left undisturbed. If unanticipated nest disturbance is noted, then an appropriate no-entry buffer zone will be established around the nest with signage until the young fledge.

12.0 WADING BIRD AND FLORIDA SANDHILL CRANE MANAGEMENT PLAN

Although no nesting activity was observed, wood storks were observed on-site during the PSS. In addition, a Florida sandhill crane was also observed utilizing the Project site. It is anticipated that these birds and others, including limpkin (*Aramus guarauna*), little blue heron (*Egretta caerulea*), tri-colored heron (*Egretta tricolor*), and roseate spoonbill (*Platalea ajaja*) may utilize the wetlands

and other native habitats on the property. The following management plan has been prepared for the purpose of addressing the management of potential wading bird and Florida sandhill crane habitat on the site.

12.1 Management Plan

Prior to clearing activities, a qualified ecologist will survey the construction impact area and adjacent habitats for the presence of Florida sandhill crane and state-listed wading bird nests. If there is evidence of Florida sandhill crane or listed wading bird nesting, the appropriate FWCC-recommended buffer will be provided around the nest site(s) to avoid disturbance by human activities. If Florida sandhill crane or listed wading bird nesting is discovered after construction has begun or if maintaining the buffers is not possible, the applicant will contact the FWCC staff to discuss potential permitting requirements.

The Project proposes preservation and enhancement of wading bird habitat. Foraging areas will be provided through the preservation, enhancement, and restoration of 507.2± acres of existing wetlands. Enhancement and restoration of the preserved wetlands through removal of invasive exotic plants and installation of native plantings will result in habitats that are more suitable for wading bird foraging and roosting.

Problematic encounters between future residents and Florida sandhill cranes and wading birds are not anticipated. Construction personnel, maintenance staff, and homeowners will be informed that the wading birds are protected species. Additionally, informational pamphlets will be provided to homeowners and maintenance staff (Appendix E) (see Section 16.2).

13.0 BIG CYPRESS FOX SQUIRREL MANAGEMENT PLAN

During the PSS, the Big Cypress fox squirrel was observed utilizing forested and disturbed areas on-site. The following management plan has been prepared for the purpose of addressing the conservation of Big Cypress fox squirrel habitat on the Project site and outlines the protection guidelines that will be implemented for the Big Cypress fox squirrel prior to, during, and after construction of the Project. The Big Cypress fox squirrel is listed as threatened by the FWCC. There is no federal listing for the Big Cypress fox squirrel in Florida.

13.1 Biology

The Big Cypress fox squirrel lives and breeds in varied habitats in Southwest Florida including cypress swamps, pine flatwoods, tropical hardwood forests, live oak woods, mangrove forests, and suburban habitats, including golf courses, city parks, and residential areas in native vegetation (Humphrey 1992). Dense cypress/hardwood swamps are avoided. This may be due to the competition for food and habitat with the Eastern gray squirrel (*Sciurus carolinensis*). Little data is available on the preferred forage habitat of the Big Cypress fox squirrel. Big Cypress fox squirrels prefer to feed on the male and female cones of slash pine. Cabbage palm fruits, bromeliad (*Bromeliaceae* sp.) buds, and acorns

are also important food items. A smaller percentage of the diet may consist of seasonal fruits, berries, and seeds (Humphrey 1992).

Big Cypress fox squirrels often form platform nests in pines and hardwoods, and moss and stick nests in cypress, tops of cabbage palms, and large clumps of bromeliads. Cabbage palms and bromeliads are especially important because they can provide immediate shelter, which allows the squirrel to travel over large areas without requiring a daily return to a permanent nesting facility (Humphrey 1992).

Big Cypress fox squirrels are solitary animals. Interaction between animals occurs primarily during mating season. Mating chases occur frequently throughout the months of May through August. During the non-mating season, interactions are infrequent and often occur around food sources. Young remain in the nest for approximately 90 days. Home ranges are 40 hectares (approximately 100 acres) for males and 20 hectares (approximately 50 acres) for females (Humphrey 1992).

13.2 Pre-Construction Surveys

A qualified ecologist will be on-site to supervise Big Cypress fox squirrel management and monitoring activities as detailed in this plan. Prior to clearing activities, the preserve areas will be staked in the field and clearly identified with silt fencing or an equivalent barrier. The fencing will be inspected by the preserve manager prior to clearing activities. The operation and storage of construction equipment and the stock-piling of fill and construction material will be prohibited within the fenced preserve areas. The fencing identifying the limits of the preserves will be maintained for the duration of construction activities.

Also, prior to commencement of clearing activities in the development area and removal of exotic trees within the preserve areas, a survey will be conducted by a qualified ecologist to identify potential Big Cypress fox squirrel nests. If potential nests are identified within the clearing limits or within the preserve areas, observations will be conducted to determine if the nests are being utilized by Big Cypress fox squirrels. The FWCC will be notified of nests determined to be utilized by Big Cypress fox squirrels. Active nests will be temporarily protected from clearing by a 125-foot radius undisturbed buffer until juvenile fox squirrels have vacated the nest(s), as confirmed by a qualified ecologist. After completion of nesting and observations documenting that juvenile fox squirrels have vacated the nest(s), a written request to remove the nest tree(s) will be made to the FWCC. After receipt of the written authorization from the FWCC, the nest tree and buffer can then be cleared.

13.3 Management Plan

Enhancement and restoration of the preserve areas will be conducted as detailed in the Indigenous Preservation, Restoration, and Management Plan. The preserve areas will provide foraging and nesting habitats for Big Cypress fox squirrels.

Problematic encounters between future residents and Big Cypress fox squirrels are not anticipated. The typical nest location, high within the tree canopy, will ensure against disturbance to fox squirrel nests. Construction personnel, maintenance staff, and homeowners will be informed that the Big Cypress fox squirrel is a protected species.

14.0 FLORIDA BLACK BEAR MANAGEMENT PLAN

Though no Florida black bear or sign of Florida black bear was documented on the Project site during the PSS, it is anticipated that Florida black bears are within the general vicinity of the Project. The following habitat management plan has been prepared for the purpose of addressing the conservation of Florida black bear habitat on the Project site. The Florida black bear is not listed by the FWCC or the USFWS. However, the FWCC and the Lee County LDC have specific management activities for this species.

14.1 Biology

The Florida black bear is a subspecies of the American black bear (*Ursus americanus*). The Florida black bear is a solitary animal that inhabits heavily wooded terrain and is most often found in large tracts of swamp forest and undisturbed upland forest. Some of the most important habitat types for the Florida black bear include pine flatwoods, hardwood swamps, cypress swamps, cabbage palm forests, sand pine scrub, and mixed hardwood hammocks. Denning often occurs in remote swamps or thickets with dense vegetation. Adult females breed in alternating years during the months of June and July. In Florida, hibernation may be restricted to females producing cubs. Hibernation most often occurs during the winter months. The diet of Florida black bears is highly variable and includes both plants and animals including saw palmetto berries, honeybees (*Apis* sp.), ants (*Formicidae* sp.), armadillo (*Dasypus novemcinctus*), feral hog (*Sus scrofa*), and white-tailed deer (*Odocoileus virginianus*) (Humphrey 1992).

14.2 Management Plan

In order to deter the potential for interactions between humans and large mammals such as the Florida black bear, perimeter buffer lakes and fencing will be utilized between development and the conservation areas to deter large mammals from accessing the development areas.

The preserved, enhanced, and restored habitat within the conservation areas will provide habitat for the Florida black bear and associated prey species. Enhancement activities will provide higher quality habitat for the Florida black bear than what currently exists within the site.

To avoid problematic encounters between future residents and Florida black bears, the FWCC's educational brochure entitled "A Guide to Living in Bear Country" (Appendix F) will be provided to homeowners and maintenance staff (see Section 16.4).

15.0 FLORIDA PANTHER MANAGEMENT PLAN

No Florida panthers were observed on-site during the PSS; however, panther tracks were observed on-site. The property is located within both the USFWS' Primary and Secondary Zones for the Florida panther. In addition, FWCC Florida panther telemetry has been recorded on the Project site and adjacent properties. The following habitat management plan has been prepared for the purpose of addressing the conservation of Florida panther habitat on the Project site. The Florida panther is listed as endangered by the FWCC and the USFWS.

15.1 Biology

The Florida panther is a large, long-tailed cat with a great deal of color variation: pale brown or rusty upper parts; dull white or buff-colored under parts; and dark brown or blackish tail tip, back of ears, and sides of the nose. Mature males have an average weight range between 100 to 150 pounds and measure nearly seven feet from nose to tip of the tail. Females are considerably smaller with a weight range of 50 to 100 pounds and measuring about six feet (USFWS 1987). Panthers subsist on a variety of mammalian prey dominated by white-tailed deer, feral hog, and in some areas raccoon (*Procyon lotor*) (Maehr 1988*a*). Existing data on Florida panther reproduction indicates that breeding occurs throughout the year with a peak in the winter/spring period, a gestation period of around 90 to 95 days, litter sizes of one to four kittens, and a breeding cycle of two years for females successfully raising young to dispersal (which occurs around 18 to 24 months) (Belden 1988, Maehr 1988*b*).

In terms of population size and occupied range, the Florida panther population is at least stable, and at best expanding, as evidenced by natality rates exceeding mortality rates and by recent dispersals north of the Caloosahatchee River (Land *et al.* 2000). According to Maehr *et al.* (1991), home ranges average 200 square miles for resident adult males, 75 square miles for adult females, 241 square miles for transient males, and 69 square miles for sub-adult females. Florida panthers inhabit large remote tracts of land with adequate prey and cover and occupy a variety of habitat types including hardwood hammocks, pine flatwoods, mixed hardwood swamps, and cypress swamps. Appropriate cover is an important component of habitats used, especially during hunting, denning, and day-bedding. Recent information based on global positioning system (GPS) telemetry data collected during nocturnal and diurnal periods indicate that forests are the habitats selected by panthers (Land *et al.* 2008).

15.2 Management Plan

In order to deter the potential for interactions between humans and large mammals such as the Florida panther, perimeter buffer lakes and fencing will be utilized between development and the conservation areas to deter large mammals from accessing the development areas.

The preserved, enhanced, and restored habitat within the conservation areas will provide habitat and a wildlife corridor for the Florida panther and associated prey species.

Enhancement activities will provide higher quality habitat for the Florida panther than what currently exists within the site.

To avoid problematic encounters between future residents and Florida panthers, the educational brochure entitled "A Guide to Living with Florida Panthers" (Appendix G), prepared by the FWCC and the USFWS, will be provided to homeowners and maintenance staff (see Section 16.5).

16.0 HUMAN-WILDLIFE COEXISTENCE PLAN

The following Human-Wildlife Coexistence Plans will be incorporated into the declaration of covenants of the Project's Homeowners Association or Community Development District documents.

16.1 Eastern Indigo Snake

As previously noted, the USFWS' Standard Protection Measures for the Eastern Indigo Snake (2013) will be followed prior to and during construction activities. The USFWS's Standard Protection Measures, including the poster and brochure, can be found at http://www.fws.gov/verobeach/listedspeciesreptiles.html. A copy of the brochure is provided as Appendix H.

16.2 American Alligator

Signs will be posted on the subject property to instruct on-site workers and homeowners not to feed or harass the American alligator. The signs will indicate that the offense is punishable by law. The typical signage is provided as Appendix I. The FWCC's educational brochure entitled "A Guide to Living with Alligators" (Appendix D) will be provided to homeowners and maintenance staff. The brochure can be found at http://myfwc.com/media/152524/Alligator_Brochure.pdf. Construction personnel and homeowners will be instructed that in the event there is a problem with a persistent nuisance alligator, they should contact the FWCC's Nuisance Alligator Hotline at 866-FWC-GATOR (866-392-4286). The FWCC is the only agency empowered to handle nuisance alligators.

16.3 Wading Bird

A wading bird informational brochure entitled "Wading Bird Informational Pamphlet" (Appendix E) will be provided to homeowners and maintenance staff. The brochure provides wading bird information and methods to prevent human-wading bird interactions. In addition, the brochure informs residents of the need to avoid disturbance around a nest(s), should a wading bird nest(s) be identified on the property in the future.

16.4 Florida Black Bear

Residents will be educated about the presence of black bears in their community. FWCC's educational brochure entitled "A Guide to Living in Bear Country" (Appendix F) will be provided to homeowners and maintenance staff. This brochure can be found at http://myfwc.com/wildlifehabitats/managed/bear/brochures/.

Garbage and recyclables will be stored in bear-resistant containers with appropriate locking mechanisms, and bear-resistant dumpsters will be used in areas where communal garbage is collected. A list of companies obtained from the FWCC that provide bear-resistant garbage containers for commercial and residential use is provided as Appendix C. Bear resistant receptacles will be required for each residential unit. Please note that Lee County Ordinance No. 11-27 requires individual trash receptacles for residential units of 40 gallons or less in size. In consultation with the local waste disposal company, bear-resistant dumpsters will be purchased from one of the listed companies or another company that is able to provide bear-resistant dumpsters which are compatible with local equipment. They will be incorporated at the time Lee County's waste collection sub-contractor makes them available for use. Units that have curbside garbage service will be required to place garbage containers curbside no earlier than the morning of the days of garbage pickup, and garbage containers will be returned to their permitted location no later than the evening of the days of garbage pickup. For units with curbside garbage service, all garbage, trash refuse, or rubbish will be required to be placed in appropriate garbage containers and stored inside an enclosed area except for the days when there is curbside garbage pickup service. For units without curbside garbage service, all garbage, trash refuse, or rubbish will be placed in bear-resistant dumpsters with the lid closed and secured.

16.5 Florida Panther

Residents will be educated about the presence of Florida panthers in their community. The educational brochure entitled "A Guide to Living with Florida Panthers" (Appendix G), prepared by the FWCC and the USFWS, will be provided to homeowners and maintenance staff. This brochure provides safety tips and instructions for panther encounters. The brochure can be found on the FWCC website located at http://myfwc.com/conservation/you-conserve/wildlife/panthers/.

17.0 PRESERVE SIGNAGE AND COMMUNITY EDUCATION PLAN

Signs identifying the conservation areas as a "nature preserve area" will be installed along the boundary of the preserve. The signage will include language stating, "No dumping allowed" (Appendix I). The signs will be spaced a maximum of 300 feet apart, will be no closer than ten feet from residential property lines, and will be limited to a maximum height of four feet and a maximum size of two square feet.

Periodic seminars may be held to further educate the community about the conservation areas, wetland benefits, and coexistence with and protection of wildlife. Continued education will ensure that the community is well informed regarding the preserves and wildlife coexistence.

18.0 REFERENCES

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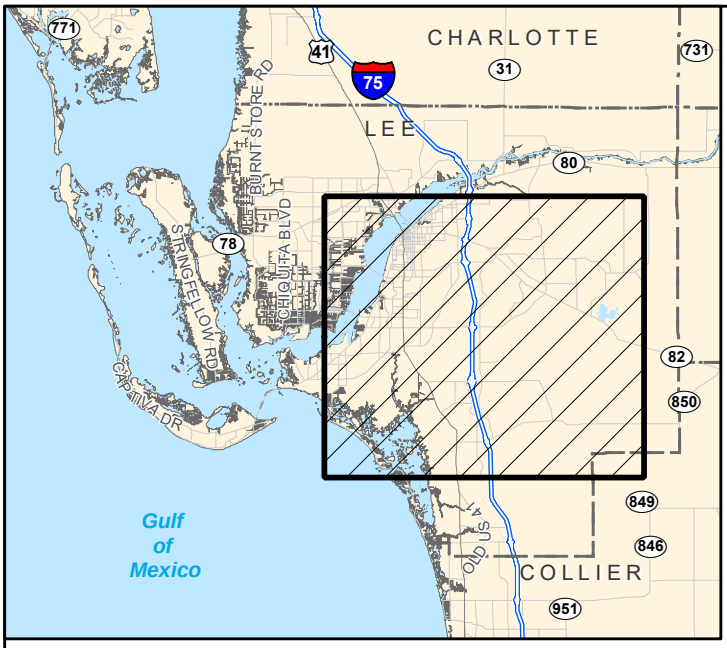
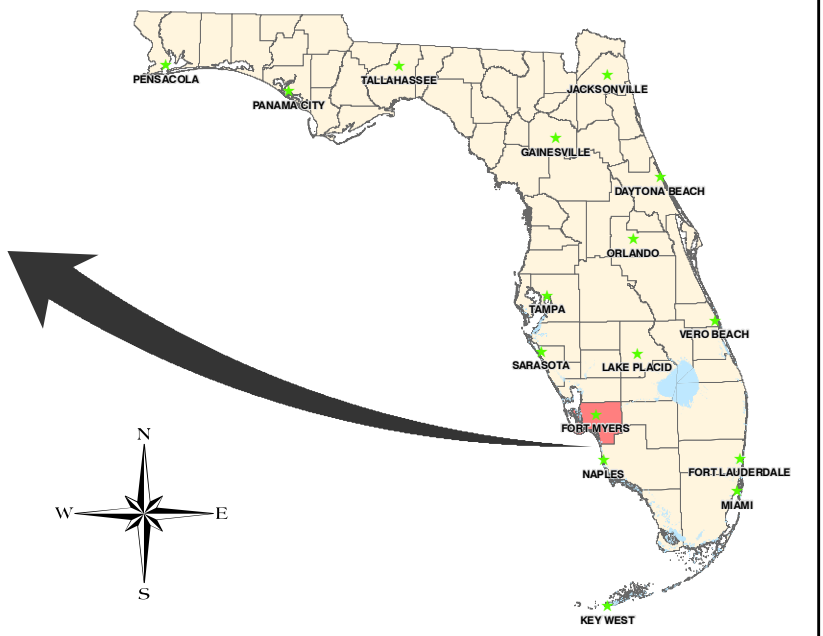
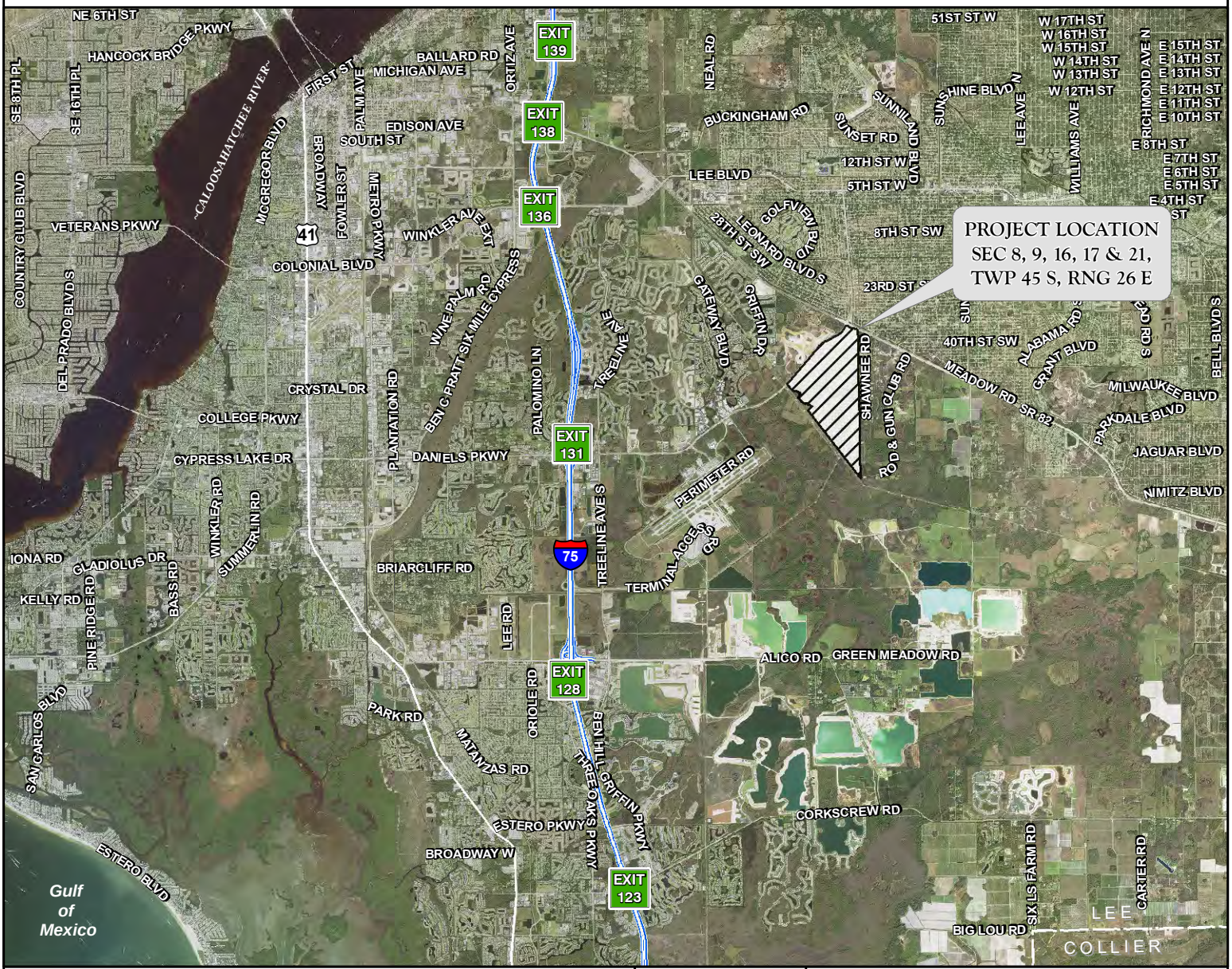
APPENDIX A

PROJECT LOCATION MAP







APPENDIX A. PROJECT LOCATION MAP
DANIELS PARKWAY SOUTH

DRAWN BY	DATE
P.F.	11/10/21
REVIEWED BY	DATE
C.R.	11/10/21
REVISED	DATE

PASSARELLA & ASSOCIATES INC
Consulting Ecologists

J:\2019\19LL3192\GIS\2021\PROTECTED_SPECIES_AND_HUMAN_WILDLIFE_COEX_PLAN\FIGURES\APPENDIX_A_PROJECT_LOCATION_MAP.MXD - 12/17/2021 @ 12:07 PM

APPENDIX B

AERIAL WITH CONSERVATION AREAS AND PROPOSED LOCATIONS OF WILDLIFE CROSSINGS AND FENCING

SCALE: 1" = 1,000'

P/L

DANIELS PKWY

SHAWNEE RD

LEGEND:

- CONSERVATION AREA
- BUFFER LAKE
- PROPOSED WILDLIFE FENCING
- WILDLIFE CROSSING
- SOUTHWEST FLORIDA INTERNATIONAL AIRPORT 10,000' HAZARDOUS WILDLIFE BUFFER

NOTES:

AERIAL PHOTOGRAPHS WERE ACQUIRED THROUGH THE LEE COUNTY PROPERTY APPRAISER'S OFFICE WITH A FLIGHT DATE OF JANUARY - MARCH 2021.

PROPERTY BOUNDARY AND PRESERVE AREA PER MORRIS DEPEW DRAWING No. PRESERVE BOUNDARIES & PROPERTY BOUNDARY.DWG DATED MAY 2, 2022.

SITE PLAN PER MORRIS DEPEW DRAWING No. 21008-01 PARCELS.DWG DATED MAY 3, 2022.

SWFIA HAZARDOUS BUFFER PER MORRIS DEPEW DRAWING No. 21008-01 X OPEN SPACE.DWG DATED APRIL 25, 2022.

DRAWN BY	DATE
T.S., P.F.	12/14/21
REVIEWED BY	DATE
J.T.	12/14/21
REVISED	DATE
T.S.	5/3/22

13620 Metropolis Avenue
Suite 200
Ft. Myers, FL 33912
Phone (239) 274-0067
Fax (239) 274-0069

Passarella & Associates, Inc. Consulting Ecologists

DANIELS PARKWAY SOUTH
AERIAL WITH CONSERVATION AREAS AND PROPOSED LOCATIONS OF WILDLIFE CROSSINGS AND FENCING

DRAWING No. 19lll3192

SHEET No. APPENDIX B

J:\2019\19LL3\9212022\LEE Co ZONING RESPONSES\APPENDIX B AERIAL WITH CA PROPOSED WILDLIFE CROSSING AND FENCING 050322.DWG TAB: IIXI7-C MAY 05, 2022 - II:5IAM PLOTTED BY: PAULF

APPENDIX C

BEAR RESISTANT CONTAINER LIST

BEAR RESISTANT TRASH & RECREATIONAL STORAGE CONTAINERS

Residential Poly Carts and Cans



BearProofInc
234 S. Golden Dr.
Silt, CO 81652
Ph: (970) 309-2460
Fax: (970) 876-0420
E-mail: Info@BearProofInc.com
Website: http://www.bearproofinc.com/

Metal Roll Away Container
95 gallon

* Metal food and trash lockers also available



Bear Proofing-R-US
(no address available)
Ph: (865) 430-8902
E-mail: akruk@charter.net
Website: http://www.bearproofing-r-us.com/

Residential Street-side Trash Can
96 gallon
*dumpster lids, loaders, and bird feeders also available



Bear Proof Systems, LLC
7855 E. Lark Dr.
Parker, CO 80138
Phone: (303) 840-3390/1-800-944-7973
Fax: (303) 840-3460
E-mail: solidws@comcast.net
Website: http://www.bearproofsystems.com/

Curbside Carts
64 gallon
94 gallon
*Also make various metal containers



BearSaver – USA Sales

Steve Thompson

Ph: 1-800-851-3887
Fax: 909-605-7780
E-mail: sales@bearsaver.com
Website: http://www.bearsaver.com/

Bear Resistant Residential Poly Carts

Model PC-95
95 gallon (min order 24)

Model PC-65
65 gallon (min order 20)

Model PC-32
32 gallon (min order 20)

*Commercial Yard Dumpsters also available

BEAR RESISTANT TRASH & RECREATIONAL STORAGE CONTAINERS



Cascade Industries

The Learning Community
3400 Innovation Court SE
Grand Rapids, MI 49512-2085
Ph. (616)-975-4800

Fax: (616) 254-4174
E-mail: info@cascadeng.com
http://www.cascadeng.com/markets/waste/index.htm

"Cascade Cart"
35 gallons
64 gallons
96 gallons
Bear Resistant Cascade Cart
96 gallons



DAWG, Inc.

25 Lassy Court
Terryville, CT 06786
Phone: 1-800-YEL-DAWG (935-3294)
Fax: 1-800-LIL-PAWS (545-7297)
website: www.dawginc.com

Bearicuda Bin
"Critter Can" Model
Mobile Screw Top Model
Mobile Bearicuda Bin
BEARier Bins

Residential Trash Storage Containers



BearGuard Co. Ltd.

P.O. Box 89
Tahoe City, CA. 96145-0089
Phone/Fax (530) 581-2211
E-mail: **sales@BearGuardInfo.com**
Website: http://www.bearguardinfo.com/index.html

Green and Brown Containers
Various sizes



Carson Valley Welding

1046 Mallory Way
Carson City NV. 89701
PH: (775) 884-9353
Cell: (530) 318-1136
Fax: (775) 884-9354
Email:Don@nobearcan.com
Website: http://www.nobearcan.com/index.html

"No Bear Can"
Model B-5030 $999.00
Model B-5036 $1149.00

See also the following companies:

Bear Proof Inc.
Bear Proofing-R-US
Bear Proof Systems

Info. above

BEAR RESISTANT TRASH & RECREATIONAL STORAGE CONTAINERS

Animal Resistant Dumpsters



Capital Industries, Inc.
5801 Third Avenue South
Seattle WA 98108
Phone: (206) 762-8585/1-800-967-8585
FAX: (206) 762-5455
E-mail: sales@capitalind.com
Website: http://www.capitalind.com/main/

Bear Resistant
Metal Containers & Lids
Various designs



Haul-All Equipment Systems
(no address available)
Phone: 1-888-428-5255
Fax: (403) 328-9956
E-mail: solutions@haulall.com
Website: http://www.haulall.com/index.htm

Hyd-A-Way Model
Several options available
for garbage disposal
and storage

See also the following companies:
Bear Proof Inc.
Bear Proofing-R-US
Bear Proof Systems
BearSaver-USA Sales

Info. above

Recreational Storage Containers
Panniers (for cooler storage)



Bear-Aware
(no address available)
Phone: 800-568-8990 / 818-504-3518
Contact Jeff Berns
E-mail: jmberns@bear-aware.comor
Website: http://www.bear-aware.com/

Dry & Ice Panniers
24” Medium Dry
28” Large Dry
28” Slim Dry
24” Medium Ice
28” Large Ice



Outfitters Supply
7373 US Highway 2E
Columbia Falls, MT 59912
Phone: 888-467-2256/ 406-892-3650
Fax: 406-892-4234
E-mail: gopackn@outfitterssupply.com
Website: http://www.outfitterssupply.com/

Pack Panniers



Pack Saddle Shop
3071 West Twin Rd
Moscow Idaho 83843
Phone: 208-882-1791
E-mail: support@packsaddleshop.com
Website:
http://www.packsaddleshop.com/Bearpan.html

Aluminum Panniers
Medium
Large
Sold with and without
hardware

BEAR RESISTANT TRASH & RECREATIONAL STORAGE CONTAINERS

Food Storage Lockers



See the following companies:
BearProofInc
BearSaver – USA Sales
Haul-All Equipment Systems (product shown)

Info. above

Ask your local waste service provider if they offer wildlife resistant canisters. For example, Waste Pro Inc. and Waste Management Inc. have offered wildlife resistant containers for both residential and commercial locations. In some areas the Waste Service Provider has retrofitted the existing dumpster to a wildlife resistant design.

All images/photos are copyright of their respective company/website.

APPENDIX D

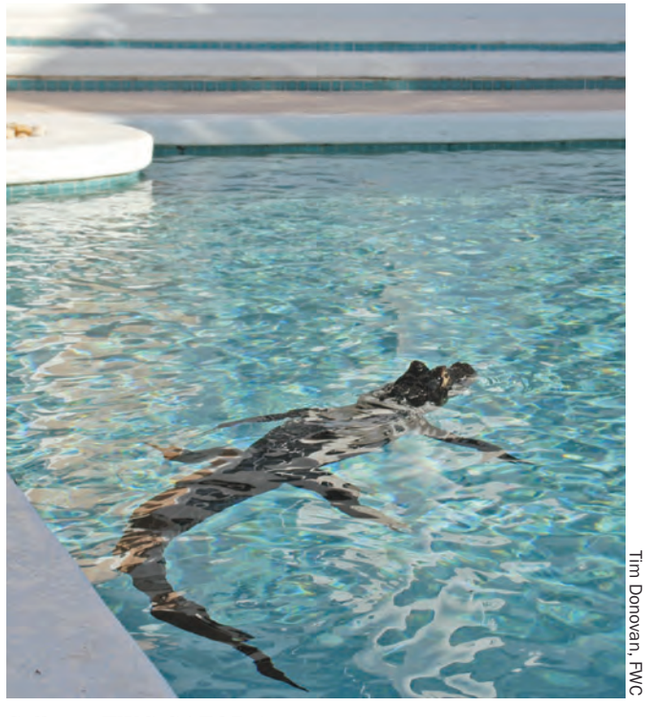
AMERICAN ALLIGATOR INFORMATIONAL PAMPHLET

- Never feed alligators – it's dangerous and illegal. When fed, alligators can overcome their natural wariness and learn to associate people with food. When this happens, some of these alligators have to be removed and killed.

- Dispose of fish scraps in garbage cans at boat ramps and fish camps. Do not throw them into the water. Although you are not intentionally feeding alligators when you do this, the result can be the same.

- Seek immediate medical attention if you are bitten by an alligator. Alligator bites can result in serious infections.

- Observe and photograph alligators only from a distance. Remember, they're an important part of Florida's natural history as well as an integral component of aquatic ecosystems.



Tim Donovan, FWC

Call 866-FWC-GATOR (392-4286) to report nuisance alligators.



Janice Plain

To report nuisance alligators call **866-FWC-GATOR (866-392-4286)**.

MyFWC.com/Alligator

REWARD
Report Fish & Wildlife Violations
1-888-404-3922

Printed on recycled content.

02/2012

A Guide to Living with Alligators



Jamie Feddersen

Florida Fish and Wildlife Conservation Commission
MyFWC.com



Lizabeth West, FWC

Do not swim outside of posted swimming areas or in waters that may be inhabited by alligators.

Living with Alligators

In Florida, the growing number of people living and recreating near water has led to a steady rise in the number of alligator-related complaints. The majority of these complaints relate to alligators being where they simply aren't wanted. Because of these complaints, the Florida Fish and Wildlife Conservation Commission's Statewide Nuisance Alligator Program permits the killing of approximately 7,000 nuisance alligators each year. Using this approach, and through increased public awareness, the rate of alligator bites on people has remained constant despite the increased potential for alligator-human interactions as Florida's human population has grown.

Alligators are an important part of Florida's landscape and play a valuable role in the ecology of our state's wetlands. Alligators are predators and help keep other aquatic animal populations in balance. A better understanding of the facts and information presented in this brochure will help ensure that people and alligators can continue to coexist.

Visit MyFWC.com/Gators for more information about alligators and the latest nuisance alligator program statistics.



Tim Donovan, FWC

Alligators and People

Alligators are a fundamental part of Florida's wetlands, swamps, rivers and lakes, and they are found in all 67 counties. Florida continues to experience human population growth. Many new residents seek waterfront homes, resulting in increased interactions between people and alligators.

Although most Floridians understand that we have alligators living in our state, the potential for conflict exists. Because of their predatory nature, alligators may target pets and livestock as prey. Unfortunately, people also are occasionally bitten. Since 1948, Florida has averaged about five unprovoked bites per year. During that period, a little more than 300 unprovoked bites to people have been documented in Florida, with 22 resulting in deaths.

In the past 10 years, the Florida Fish and Wildlife Conservation Commission has received an average of nearly 16,000 alligator-related complaints per year. Most of these complaints deal with alligators occurring in places such as backyard ponds, canals, ditches and streams, but other conflicts occur when alligators wander into garages, swimming pools and golf course ponds. Sometimes, alligators come out of the water to bask in the sun or move between wetlands. In many cases, if left alone, these alligators will eventually move on to areas away from people.

Safety Tips

- Generally, alligators less than four feet in length are not large enough to be dangerous unless handled. However, if you encounter any alligator that you believe poses a threat to people, pets or property, call the Nuisance Alligator Hotline at 866-FWC-GATOR (866-392-4286). Please be aware, nuisance alligators are killed, not relocated.

- Be aware of the possibility of alligators when you are in or near fresh or brackish water. Bites may occur when people do not pay close enough attention to their surroundings when working or recreating near water.

- Do not swim outside of posted swimming areas or in waters that might be inhabited by large alligators.

- Alligators are most active between dusk and dawn. Therefore, avoid swimming at night.

- Dogs and cats are similar in size to the natural prey of alligators. Don't allow pets to swim, exercise or drink in or near waters that may contain alligators. Dogs often attract an alligator's interest, so do not swim with your dog.

- Leave alligators alone. State law prohibits killing, harassing or possessing alligators. Handling even small alligators can result in injury.



Tim Donovan, FWC

A young alligator wanders onto a porch in a residential neighborhood.

APPENDIX E

WADING BIRD INFORMATIONAL PAMPHLET

Action to be taken if you observe someone harassing a wading bird:

Promptly notify the FWCC 1-888-404-FWCC

Tips for living with wading birds

- Do not feed wading birds.
- Keep out of vegetated areas surrounding lakes and marshes.
- Keep pets leashed to avoid coming into contact with wading birds.
- Properly dispose of fishing line to avoid bird entanglement.

Prepared By:

Passarella & Associates, Inc. Consulting Ecologists

13620 Metropolis Avenue, Suite 200
Fort Myers, Florida 33912
(239) 274-0067

WADING BIRD INFORMATIONAL PAMPHLET



Daniels Parkway South

Description:

Wading birds are a diverse group of birds which utilize shallow marsh areas as foraging and breeding habitats. They are typically characterized as having long necks, legs and bills, which allows them to feed in shallow water. Wading birds can be found in Florida year round. Examples of wading birds include: great egrets, great blue herons, white ibis', little blue herons and snowy egrets.

Habitat:

Wading birds inhabit all counties in the state of Florida and are most common in the shallow marsh or wetland areas throughout the state. They can also be found in both coastal and inland areas, salt marshes, swamps, ponds, drainage canals, and ditches. Wading birds breed and nest in colonies which consist of various species of other wading birds. Breeding generally occurs just prior to or during the wet season. Stick nests are built in trees or bushes near wetland areas and above the water line.

Wading birds feed in shallow water areas where prey is most concentrated. They feed by spearing prey with their bills or by straining small species out of the water and sediment. Prey may include small fish, invertebrates or other aquatic organisms. Wading birds have also been known to consume snakes, frogs and small rodents.

Protection:

Most wading birds are listed as species of special concern by the State of Florida. Some species such as wood storks are listed as endangered by both the State of Florida and the U.S. Fish and Wildlife Service. It is unlawful for anyone to disturb or take nests or eggs, feed, injure, harm, harass, or kill any wading birds species. Persons who knowingly violate the law may be subject to fines and/or jail time.

If wading birds form a nesting colony on the property in the future, avoid activities within 330 feet of the colony during the nesting season (March 1 to August 1).

APPENDIX F

FLORIDA BLACK BEAR INFORMATIONAL PAMPHLET



Eglin AFB

Secure your garbage

- Store garbage in a secure area, such as a sturdy shed or garage, until the morning of pickup, or
- Build a small shed to store trash cans. Be sure there are no gaps along the shed's edges and use screws. If the shed is curbside, call your waste service provider to ensure it will still service your trash cans, or
- Modify your regular trash can to make it bear-resistant by adding hardware. To be successful, the lid must not be flexible and the can must not collapse when you stand on its side. Call your waste service provider to ensure it will service a modified trash can, or
- Request a commercially manufactured bear-resistant trash can from your waste service provider. If they do not provide these cans, you can special order one from a hardware store, but ensure your waste service provider will service it.



Funds from Florida's "Conserve Wildlife" license plate help conserve bears and reduce human-bear conflicts. Buy one today through your local tax collector's office or online at BuyAPlate.com.



Milt Fox

How FWC responds to conflicts

The FWC addresses human-bear conflicts in a variety of ways, including providing technical assistance over the phone, conducting an in-person visit with the resident, using deterrents (such as an electric fence), attempting to scare the bear away, or, in rare cases, attempting to trap the bear.

While most conflicts can be avoided by securing attractants, biologists assess each situation on a case-by-case basis and use FWC policies and guidelines to help decide on the most appropriate response.

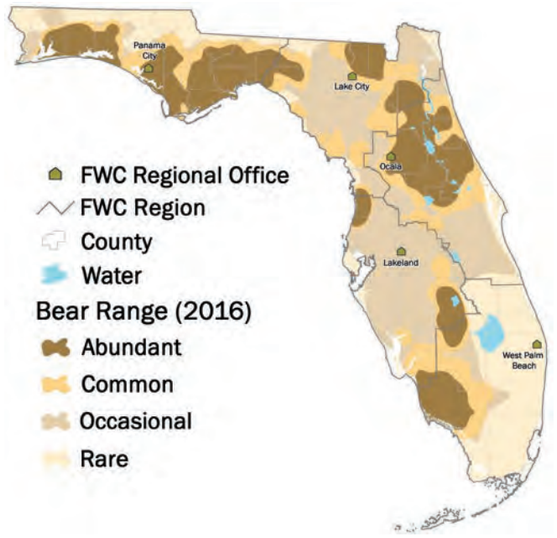
The earlier the FWC is notified, the more response options are available.

The longer a conflict situation continues, the more likely the bear will develop behaviors that present a risk to public safety, such as entering a dwelling, harming a leashed dog or injuring a person.

Once this happens, it is too late to try to change the bear's behavior and it must be humanely killed.

Warning! It is illegal to take, possess, injure, shoot, collect or sell black bears under Florida state law unless authorized by an FWC-issued permit. If you are found guilty, you could face fines and/or jail time.

Where bears live in Florida



If you are experiencing bear conflicts, please contact the nearest FWC regional office. The sooner the FWC knows about bear activity, the more options are available to prevent a bear from becoming a public safety risk.

North Central	**Lake City**	**(386) 758-0525**
Northeast	**Ocala**	**(352) 732-1225**
Northwest	**Panama City**	**(850) 265-3676**
South	**West Palm Beach**	**(561) 625-5122**
Southwest	**Lakeland**	**(863) 648-3200**

In an emergency or if you suspect illegal activity, call the Wildlife Alert Hotline at 888-404-FWCC (3922).

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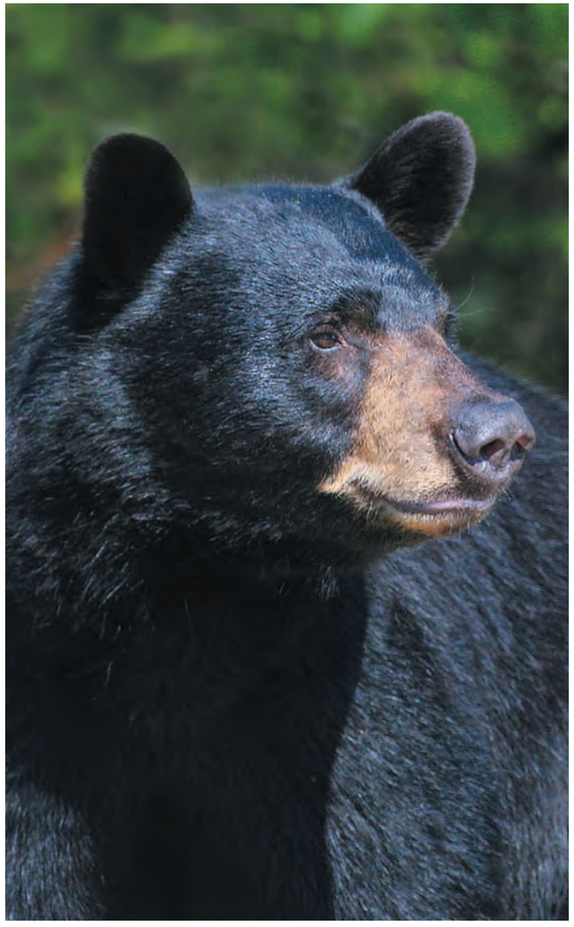
A guide to living in **bear country**



Ashley Hockenberry

Florida Fish and Wildlife Conservation Commission
MyFWC.com/Bear

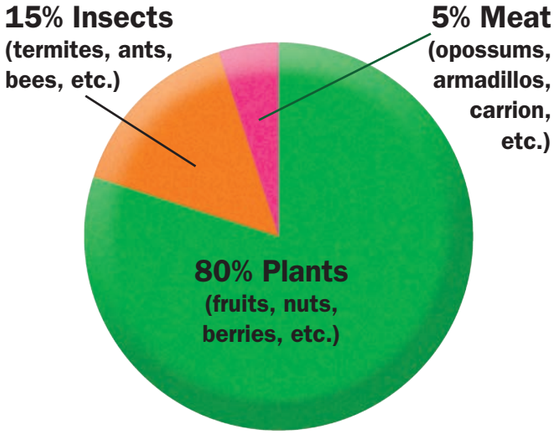


Ashley Hockenberry

The bear facts

- Black bears are the only species of bear in Florida.
- Biologists estimate approximately 4,000 black bears roam Florida today, compared to as few as 300 bears in the 1970s.
- Bears can pick up scents from over a mile away: that's seven times better than a bloodhound and the best of any land mammal.
- Adult bears typically weigh between 150 to 400 pounds, with males often twice the size of females.
- Females have their first litter around 3 years of age, with one to three cubs born every other year.
- Breeding occurs from June to August, with cubs born around February 1.
- On average, females range over 15 square miles and males range over 60 square miles.

A bear's diet





Bear behavior and you

Black bears are shy and generally not aggressive. When seen near homes or workplaces, bears are often just passing through. When frightened, bears typically run away or climb a tree. If a bear is in a tree, it is either feeding or trying to escape danger. Keep people and pets away, and the bear will leave on its own, usually after dark.

When a bear stands on its hind legs, it is trying to get a better view or scent. Black bears may huff, snap their jaws, swat the ground or "bluff charge" when cornered, threatened or defending food or young. If this happens, stop, hold your ground and then slowly back away.

Remember bears are large, powerful, wild animals that can act unpredictably and become dangerous. Bears who receive food from people may lose their natural fear of them and are more likely to damage property or become a public safety risk. NEVER feed or attract bears. If a bear is eating something on your property, take note of what it is and secure it after the bear has left the area.



Learn all about Florida's bears and being BearWise at *MyFWC.com/BearWise.*

BearWise tips:

- Never approach a bear. Keep as much distance between you and the bear as possible.
- If a bear changes its behavior because you're there, you are too close.
- If you encounter a bear at close range, stand with arms raised, back up slowly and speak to the bear in a calm, assertive voice.
- Do not turn your back, play dead or run from a black bear.
- Make sure you are in a secure area, such as a car or building, and the bear has a clear escape route, then scare the bear away with loud noises, like yelling, blowing a whistle, or using an air or car horn.
- Install a motion-activated device, such as flood lights, a water sprinkler or audio alarm, to scare a bear away from a location when you are not present.
- Report any bear threatening the safety of people, pets or livestock, or causing property damage, to the FWC (see back cover).
- Walk dogs on a non-retractable leash and be aware of your surroundings. Dogs can trigger defensive behaviors from bears.

Encourage your school system to use the *Florida Black Bear Curriculum Guide*. The guide is designed for grades 3 to 8 and is correlated to state education standards.



Avoid attracting bears

Bears do not hang around people if they do not find food. Properly storing or securing garbage and other attractants is a proven method of preventing bear conflicts. However, it takes a community-wide effort to keep bears wild and away from neighborhoods.

- Use electric fencing to protect gardens, garbage, compost piles, beehives, fruit trees and livestock.



John Bailey

- Keep garage doors closed when not in use.
- Feed pets indoors or bring food dishes (even empty ones) inside at night.
- Store pet and livestock feed in bear-resistant containers or inside a secure area.
- Remove or modify bird and wildlife feeders and ensure the ground is free of all feed debris.
- Properly harvest ripe nuts, fruits, and vegetables and remove rotten fruits and vegetables.
- Create an "unwelcome" mat by driving finishing nails, heads up, into a sheet of anchored plywood to keep bears away from a specific area, such as under a window, door or fence.
- Keep outdoor refrigerators and freezers in a secure location or lock up with super-adhesive anchors, like Marine Locks™.
- Clean meat smokers and barbeque grills with a degreasing detergent and store in a secure area. Dispose of food remnants/grease after each use.

A screened-in porch will not keep bears out!

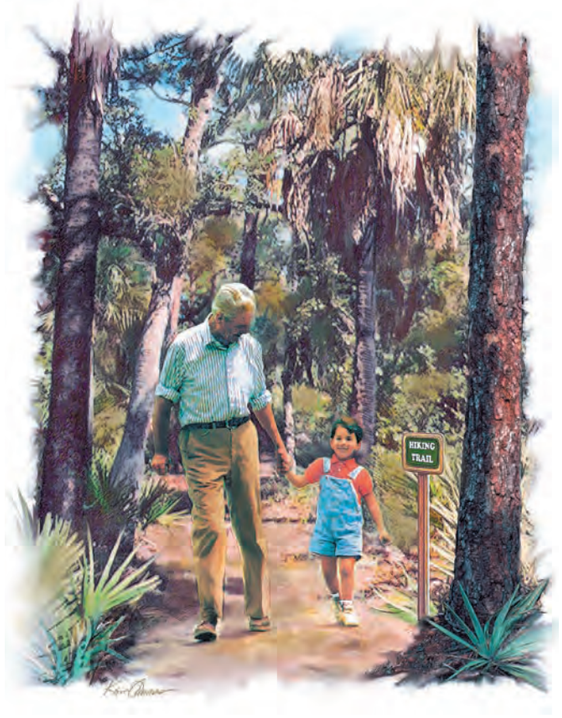
APPENDIX G

FLORIDA PANTHER INFORMATIONAL PAMPHLET

You live in Florida panther country

Florida panthers are reclusive and rarely seen by people. They normally live in remote, undeveloped areas. However, as the number of people in southern Florida grows, there is an increased chance of an encounter with a Florida panther.

This brochure contains some guidelines to help you live safely in Florida panther country.



Keep children within sight and close to you, especially outdoors between dusk and dawn.

If you feel threatened by a panther, or have lost pets or livestock to a panther, please call the Florida Fish and Wildlife Conservation Commission's Wildlife Alert Hotline at 1-888-404-FWCC (3922).

If you see a Florida panther

The Florida panther moves primarily at night. The chances of seeing a panther are slim. But if you live in Florida panther country, you need to know what to do if you see one.

- **Keep children within sight and close to you.** Pick up any small children so they don't panic and run. Try to do this without bending over or turning away from the Florida panther.
- **Give them space.** Florida panthers typically will avoid a confrontation. Give them a way to escape.
- **Do not run.** Running may stimulate a panther's instinct to chase. Stand and face the animal. Make eye contact to let the panther know you are aware of its presence.
- **Avoid crouching or bending over.** Squatting or bending makes you look smaller, resembling a prey-sized animal.
- **Appear larger.** Make gestures that indicate you are not prey and that you may be a danger to the panther. Raise your arms. Open your jacket. Throw stones, branches or whatever you can reach without crouching or turning your back. Wave your arms slowly and speak firmly in a loud voice.
- **Fight back if attacked.** There has never been a reported panther attack in Florida. In western states, where attacks by cougars have occurred very rarely, potential victims have fought back successfully with rocks, sticks, caps, jackets, garden tools and their bare hands. Since large cats usually try to bite the head or neck, try to remain standing and face the animal.



Mark Lotz

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620 S. Meridian Street
Tallahassee, FL 32399-1600
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A guide to living with

Florida Panthers



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7 ways to live safely in Florida panther country

While these guidelines are meant to help you live safely in Florida panther habitat, they also apply to living with more commonly encountered wildlife, including raccoons, snakes, bears and alligators.

1. **Be alert from dusk 'til dawn (and whenever deer are active)**
   Florida panthers primarily are active at night. Exercise more caution at dawn, dusk or dark.

2. **Keep panther prey away**
   Deer, raccoons, rabbits, armadillos and wild hogs are prey for the Florida panther. By feeding deer or other wildlife, people inadvertently may attract panthers. Do not leave potential wildlife food outside, such as unsecured garbage or pet food. Consider fencing vegetable gardens.

3. **Keep pets secure**
   Free-roaming pets, or pets that are tethered and unfenced, are easy prey for predators, including panthers. Bring pets inside or keep them in a secure and covered kennel at night. Feeding pets outside also may attract raccoons and other panther prey; do not leave uneaten pet food available to wildlife.



Keep your pets safe and secure. Bring pets inside or keep them in a secure and covered kennel at night.



Keep livestock safe and secure.

4. **Keep domestic livestock secure**
   Where practical, place chickens, goats, hogs or other livestock in enclosed structures at night. Electric fencing can be an effective predator deterrent.

5. **Landscape for safety**
   Remove dense or low-lying vegetation that would provide hiding places for panthers and other predatory animals near your house.
   - Remove plants that deer like to eat.
   - Choose plants that do not attract deer or other panther prey species. For information on plants that deer do not like to eat, visit edis.ifas.ufl.edu/UW137.
   - Appropriate fencing will make your yard or play area uninviting to prey animals such as deer.

6. **Consider other deterrents**
   Outdoor lighting, motion sensors and electric fencing also may deter prey animals and panthers from entering your yard. Outdoor lighting also will make approaching prey and panthers more visible to you.

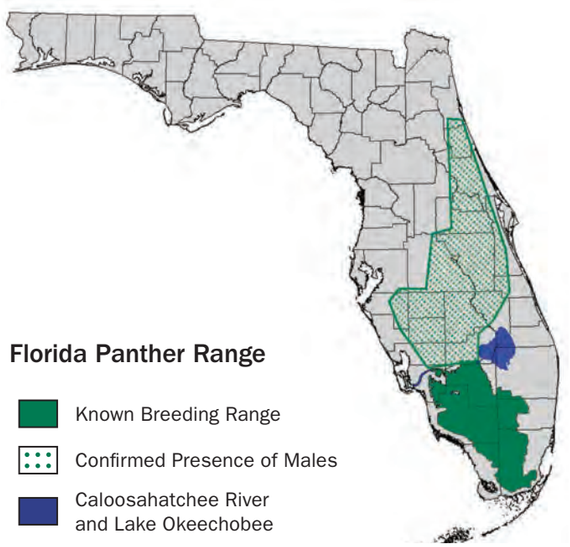
7. **Hike or bike with a friend**
   When recreating outdoors, it's a good practice to let friends or family know your whereabouts and when you expect to return. Better yet, take a friend with you!

Florida panther facts

- The Florida panther is a subspecies of puma, also known as a mountain lion or cougar. It is the last subspecies still surviving in the eastern United States.
- Biologists estimate roughly 100-160 adult and subadult Florida panthers remain in the wild. Most panthers live in southwest Florida, south of the Caloosahatchee River, although some panthers have been documented traveling as far north as central Georgia.
- The Florida panther's decline occurred prior to 1950, when it still was legal to hunt panthers. It was listed as endangered in 1967 and is protected under federal and state laws.
- Florida panther numbers declined to roughly 30 cats by the early 1980s. Severe inbreeding resulted in many health and physical problems. A genetic restoration project in 1995 was successful in improving the genetic health and vigor of the panther population.
- Florida panthers are found primarily in the Big Cypress/Everglades ecosystem in Collier, Lee, Hendry, Monroe and Miami-Dade counties.
- Florida panthers' home range sizes vary by sex and by individual. Female home ranges are typically 60-75 square miles whereas males' are typically 160-200 square miles.
- There is no record of a Florida panther attacking a person. Florida panthers are rarely seen.
- The biggest threat to the future of the Florida panther is habitat loss. A number of panthers also die each year due to vehicle strikes on roadways.
- The Florida panther was chosen as the State Animal of Florida in 1982 by a vote of elementary school students throughout the state.



FWC panther team



This brochure was produced through a partnership of the Audubon Society of Florida, Conservancy of Southwest Florida, Defenders of Wildlife, Florida Fish and Wildlife Conservation Commission, Florida Wildlife Federation, Friends of the Florida Panther Refuge, Mountain Lion Foundation, National Park Service, National Wildlife Federation, Seminole Tribe of Florida, University of Florida and the U.S. Fish and Wildlife Service.

Funding provided by the Florida Fish and Wildlife Conservation Commission, Friends of the Florida Panther Refuge and the National Fish and Wildlife Foundation.

APPENDIX H

EASTERN INDIGO SNAKE INFORMATIONAL PAMPHLET

Killing, harming, or harassing indigo snakes is strictly prohibited and punishable under State and Federal Law.

Only individuals currently authorized through an issued Incidental Take Statement in association with a USFWS Biological Opinion, or by a Section 10(a)(1)(A) permit issued by the USFWS, to handle an eastern indigo snake are allowed to do so.

LEGAL STATUS: The eastern indigo snake is classified as a Threatened species by both the USFWS and the Florida Fish and Wildlife Conservation Commission. "Taking" of eastern indigo snakes is prohibited by the Endangered Species Act without a permit. "Take" is defined by the USFWS as an attempt to kill, harm, harass, pursue, hunt, shoot, wound, trap, capture, collect, or engage in any such conduct. Penalties include a maximum fine of $25,000 for civil violations and up to $50,000 and/or imprisonment for criminal offenses, if convicted.

August 12, 2013

ATTENTION:

THREATENED EASTERN INDIGO SNAKES MAY BE PRESENT ON THIS SITE!!!



Please read the following information provided by the U.S. Fish and Wildlife Service to become familiar with standard protection measures for the eastern indigo snake.

IF YOU SEE A LIVE EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and allow the eastern indigo snake sufficient time to move away from the site without interference.
- Personnel must NOT attempt to touch or handle snake due to protected status.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Immediately notify supervisor or the applicant's designated agent, **and** the appropriate U.S. Fish and Wildlife Service (USFWS) office, with the location information and condition of the snake.
- If the snake is located in a vicinity where continuation of the clearing or construction activities will cause harm to the snake, the activities must halt until such time that a representative of the USFWS returns the call (within one day) with further guidance as to when activities may resume.

IF YOU SEE A DEAD EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Thoroughly soak the dead snake in water and then freeze the specimen. The appropriate wildlife agency will retrieve the dead snake.

USFWS Florida Field Offices to be contacted if a live or dead eastern indigo snake is encountered:

North Florida ES Office – (904) 731-3336
Panama City ES Office – (850) 769-0552
South Florida ES Office – (772) 562-3909

DESCRIPTION: The eastern indigo snake is one of the largest non-venomous snakes in North America, with individuals often reaching up to 8 feet in length. They derive their name from the glossy, blue-black color of their scales above and uniformly slate blue below. Frequently, they have orange to coral reddish coloration in the throat area, yet some specimens have been reported to only have cream coloration on the throat. These snakes are not typically aggressive and will attempt to crawl away when disturbed. Though indigo snakes rarely bite, they should NOT be handled.

SIMILAR SNAKES: The black racer is the only other solid black snake resembling the eastern indigo snake. However, black racers have a white or cream chin, thinner bodies, and WILL BITE if handled.

LIFE HISTORY: The eastern indigo snake occurs in a wide variety of terrestrial habitat types throughout Florida. Although they have a preference for uplands, they also utilize some wetlands and agricultural areas. Eastern indigo snakes will often seek shelter inside gopher tortoise burrows and other below- and above-ground refugia, such as other animal burrows, stumps, roots, and debris piles. Females may lay from 4 - 12 white eggs as early as April through June, with young hatching in late July through October.

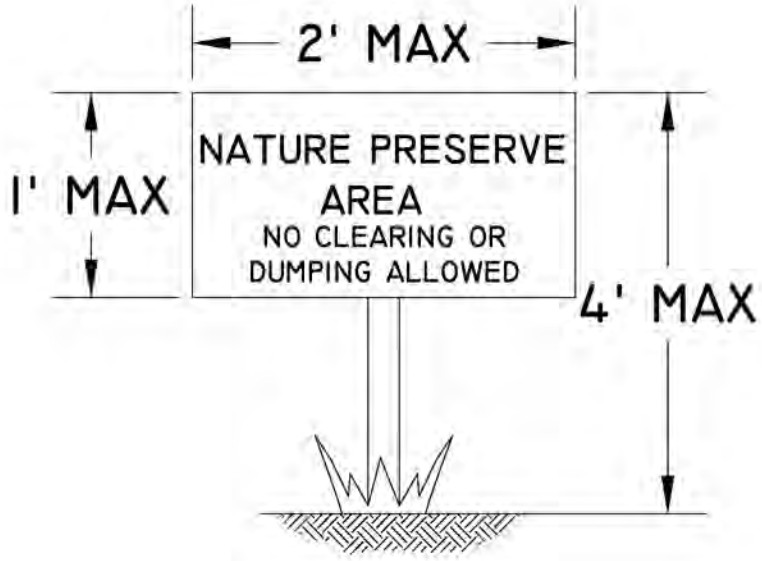
APPENDIX I

AMERICAN ALLIGATOR MANAGEMENT AND PRESERVE SIGNAGE



TYPICAL AMERICAN ALLIGATOR SIGNAGE

N.T.S.



TYPICAL PRESERVE SIGNAGE

N.T.S.

APPENDIX I. AMERICAN ALLIGATOR MANAGEMENT AND PRESERVE SIGNAGE
DANIELS PARKWAY SOUTH

DRAWN BY	DATE
D.B.	7/9/19
REVIEWED BY	DATE
S.J.	7/9/19
REVISED	DATE

PASSARELLA & ASSOCIATES INC
Consulting Ecologists

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EXHIBIT E

OF ENVIRONMENTAL REPORTS
EXHIBITS – M12 & T7

PROTECTED SPECIES SURVEY

DANIELS PARKWAY SOUTH
LEE COUNTY PROTECTED SPECIES SURVEY

Revised May 2022

Prepared For:

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Project No. 19LLL3192

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1.0 INTRODUCTION

This report documents the Lee County Protected Species Survey conducted by Passarella & Associates, Inc. (PAI) at Daniels Parkway South (Project). Protected species were also documented during other fieldwork on the Project site. The protected species survey was conducted to meet the requirements of the Lee County Land Development Code (LDC) Chapter 10, Article III, Division 8 (Protection of Habitat) Standards.

The Project totals 1,233.08± acres and is located in Sections 8, 9, 16, 17, and 21; Township 45 South, Range 26 East, Lee County (Figure 1). The site is bordered to the north by Daniels Parkway, to the east by single-family residential development and undeveloped land, to the west by a Florida Power & Light (FPL) transmission line and undeveloped land, and to the south by Lee County's Wild Turkey Strand Preserve.

2.0 LAND USES AND VEGETATION ASSOCIATIONS

Vegetation and land cover mapping for the Project was conducted using a Lee County 2020 rectified aerial (Appendix A). Groundtruthing of the vegetative communities was conducted by PAI in January 2020 utilizing the Florida Land Use, Cover and Forms Classification System (FLUCFCS) Level III (Florida Department of Transportation 1999). Level IV FLUCFCS was utilized to denote disturbance and hydrologic conditions. "E" codes were used to identify levels of exotic and invasive vegetation (e.g., Brazilian pepper (*Schinus terebinthifolia*), melaleuca (*Melaleuca quinquenervia*), West Indian marsh grass (*Hymenachne amplexicaulis*), Wright's nutrush (*Scleria lacustris*), and torpedograss (*Panicum repens*)). AutoCAD 3D 2021 software was used to determine the acreage of each mapping area, produce summaries, and generate the FLUCFCS map for the Project (Appendix A). A total of 50 vegetative and land cover types (i.e., FLUCFCS codes) were identified within the Project area. Table 1 provides the breakdown of the FLUCFCS codes by acreage for the Project, and a description of each of the classifications follows.

Table 1. Vegetative and Land Cover Types by FLUCFCS Code

FLUCFCS Code	Description	Acreage	Percent Total
211	Improved Pasture	473.76	38.4
262	Low Pasture	27.96	2.3
3219 E1	Palmetto Prairie, Disturbed (0-24% Exotics)	3.13	0.3
3219 E2	Palmetto Prairie, Disturbed (25-49% Exotics)	4.15	0.3
3219 E3	Palmetto Prairie, Disturbed (50-75% Exotics)	2.11	0.2
3219 E4	Palmetto Prairie, Disturbed (76-100% Exotics)	0.73	0.1
4119 E1	Pine Flatwoods, Disturbed (0-24% Exotics)	53.32	4.3
4119 E2	Pine Flatwoods, Disturbed (25-49% Exotics)	28.79	2.3
4119 E3	Pine Flatwoods, Disturbed (50-75% Exotics)	2.64	0.2
4119 E4	Pine Flatwoods, Disturbed (76-100% Exotics)	2.87	0.2
4159 E1	Pine, Disturbed (0-24% Exotics)	11.18	0.9

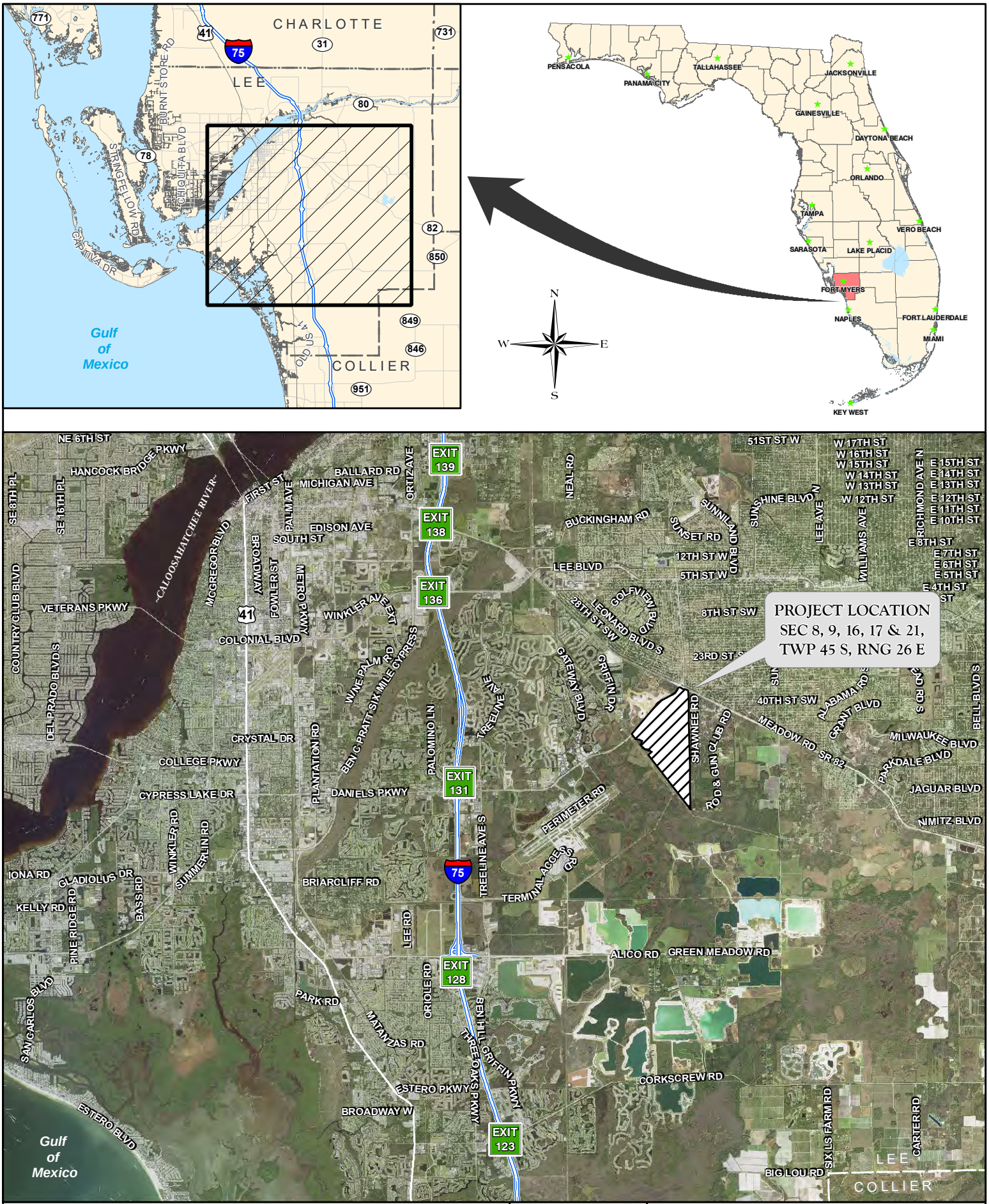

FIGURE 1. PROJECT LOCATION MAP
DANIELS PARKWAY SOUTH

DRAWN BY	DATE
P.F.	6/28/21
REVIEWED BY	DATE
J.T.	6/28/21
REVISED	DATE

PASSARELLA & ASSOCIATES, INC
Consulting Ecologists

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Table 1. (Continued)

FLUCFCS Code	Description	Acreage	Percent Total
4159 E2	Pine, Disturbed (25-49% Exotics)	2.76	0.2
4159 E3	Pine, Disturbed (50-75% Exotics)	2.07	0.2
4159 E4	Pine, Disturbed (76-100% Exotics)	1.51	0.1
422	Brazilian Pepper	3.67	0.3
424	Melaleuca	2.93	0.2
4241	Melaleuca, Hydric	133.24	10.8
4279 E1	Live Oak, Disturbed (0-24% Exotics)	1.20	0.1
4281 E3	Cabbage Palm, Hydric (50-75% Exotics)	11.15	0.9
4349 E1	Hardwood/Conifer Mixed, Disturbed (0-24% Exotics)	6.52	0.5
4349 E2	Hardwood/Conifer Mixed, Disturbed (25-49% Exotics)	6.05	0.5
4349 E3	Hardwood/Conifer Mixed, Disturbed (50-75% Exotics)	7.39	0.6
4349 E4	Hardwood/Conifer Mixed, Disturbed (76-100% Exotics)	2.49	0.2
4389 E1	Mixed Hardwoods, Disturbed (0-24% Exotics)	4.51	0.4
514	Ditch	30.71	2.5
514 H	Ditch, Hydric	8.14	0.7
525	Cow Pond	0.22	< 0.1
6179 E1	Mixed Wetland Hardwoods, Disturbed (0-24% Exotics)	30.69	2.5
6179 E2	Mixed Wetland Hardwoods, Disturbed (25-49% Exotics)	1.77	0.1
6179 E3	Mixed Wetland Hardwoods, Disturbed (50-75% Exotics)	1.48	0.1
6179 E4	Mixed Wetland Hardwoods, Disturbed (76-100% Exotics)	3.35	0.3
6219 E1	Cypress, Disturbed (0-24% Exotics)	17.46	1.4
6219 E2	Cypress, Disturbed (25-49% Exotics)	48.22	3.9
6219 E3	Cypress, Disturbed (50-75% Exotics)	11.90	1.0
6219 E4	Cypress, Disturbed (76-100% Exotics)	8.66	0.7
6259 E1	Pine, Hydric, Disturbed (0-24% Exotics)	1.37	0.1
6259 E2	Pine, Hydric, Disturbed (25-49% Exotics)	11.69	0.9
6259 E3	Pine, Hydric, Disturbed (50-75% Exotics)	25.38	2.1
6259 E4	Pine, Hydric, Disturbed (76-100% Exotics)	1.72	0.1
6319 E2	Wetland Shrub, Disturbed (25-49% Exotics)	5.63	0.5
6419 E1	Freshwater Marsh, Disturbed (0-24% Exotics)	15.59	1.3
6419 E2	Freshwater Marsh, Disturbed (25-49% Exotics)	2.67	0.2
6419 E3	Freshwater Marsh, Disturbed (50-75% Exotics)	17.65	1.4
6419 E4	Freshwater Marsh, Disturbed (76-100% Exotics)	126.88	10.3
6439 E3	Wet Prairies, Disturbed (50-75% Exotics)	7.24	0.6
6439 E4	Wet Prairies, Disturbed (76-100% Exotics)	3.37	0.3
740	Disturbed Land	6.47	0.5
7401	Disturbed Land, Hydric	9.30	0.8
743	Spoil Area	0.21	< 0.1
747	Berm	39.18	3.2
Total		**1,233.08**	**100.0**

Improved Pasture (FLUCFCS Code 211)
The canopy of this land use type is primarily open with scattered cabbage palm (*Sabal palmetto*) and melaleuca. The sub-canopy contains scattered wax myrtle (*Morella cerifera*), live oak (*Quercus virginiana*), cabbage palm, and Brazilian pepper. The ground cover consists of bahiagrass (*Paspalum notatum*), carpetgrass (*Axonopus* sp.), broomsedge (*Andropogon virginicus*), dog fennel (*Eupatorium capillifolium*), grass-leaved goldenrod (*Euthamia graminifolia*), bermudagrass (*Cynodon dactylon*), and tropical soda apple (*Solanum viarum*).

Low Pasture (FLUCFCS Code 262)
The canopy and sub-canopy of this land use type are open. The ground cover includes torpedograss (*Panicum repens*), witchgrass (*Dichanthelium* sp.), dog fennel, marsh pennywort (*Hydrocotyle umbellata*), Wright's nutrush (*Scleria lacustris*), yellow-eyed grass (*Xyris* sp.), melaleuca, and Asiatic pennywort (*Centella asiatica*).

Palmetto Prairie, Disturbed (0-24% Exotics) (FLUCFCS Code 3219 E1)
The canopy of this habitat type is primarily open with scattered melaleuca on the edges. The sub-canopy contains saw palmetto (*Serenoa repens*) and scattered Brazilian pepper. The ground cover includes carpetgrass, chocolateweed (*Melochia spicata*), saw palmetto, and grass-leaved goldenrod.

Palmetto Prairie, Disturbed (25-49% Exotics) (FLUCFCS Code 3219 E2)
This habitat type is similar to FLUCFCS Code 3219 E1, but with 25 to 49 percent melaleuca in the sub-canopy.

Palmetto Prairie, Disturbed (50-75% Exotics) (FLUCFCS Code 3219 E3)
This habitat type is similar to FLUCFCS Code 3219 E2, but with 50 to 75 percent Brazilian pepper and melaleuca in the sub-canopy.

Palmetto Prairie, Disturbed (76-100% Exotics) (FLUCFCS Code 3219 E4)
This habitat type is similar to FLUCFCS Code 3219 E3, but with 76 to 100 percent Brazilian pepper and melaleuca in the canopy and sub-canopy.

Pine Flatwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 4119 E1)
The canopy of this habitat type includes slash pine (*Pinus elliottii*) and live oak. The sub-canopy contains saw palmetto, muscadine grapevine (*Vitis rotundifolia*), slash pine, scattered laurel oak (*Quercus laurifolia*), and widely scattered wax myrtle and melaleuca. The ground cover includes bahiagrass, false fennel (*Eupatorium leptophyllum*), chocolateweed, live oak, little blue maidencane (*Amphicarpum muhlenbergianum*), muscadine grapevine, spermacoce (*Spermacoce verticillata*), broomsedge, and scattered saw palmetto.

Pine Flatwoods, Disturbed (25-49% Exotics) (FLUCFCS Code 4119 E2)
This habitat type is similar to FLUCFCS Code 4119 E1, but with 25 to 49 percent Brazilian pepper in sub-canopy.

Pine Flatwoods, Disturbed (50-75% Exotics) (FLUCFCS Code 4119 E3)
This habitat type is similar to FLUCFCS Code 4119 E2, but with 50 to 75 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Pine Flatwoods, Disturbed (76-100% Exotics) (FLUCFCS Code 4119 E4)
This habitat type is similar to FLUCFCS Code 4119 E3, but with 76 to 100 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Pine, Disturbed (0-25% Exotics) (FLUCFCS Code 4159 E1)
The canopy of this habitat type contains slash pine and scattered cabbage palm, live oak, and melaleuca. The sub-canopy consists of slash pine, cabbage palm, laurel oak, and widely scattered melaleuca and Brazilian pepper. The ground cover is primarily open with widely scattered spermacoce, muscadine grapevine, and carpetgrass.

Pine, Disturbed (25-49% Exotics) (FLUCFCS Code 4159 E2)
This habitat type is similar to FLUCFCS Code 4159 E1, but with 25 to 49 percent melaleuca and Brazilian pepper in the canopy and sub-canopy and spermacoce in the ground cover.

Pine, Disturbed (50-75% Exotics) (FLUCFCS Code 4159 E3)
This habitat type is similar to FLUCFCS Code 4159 E2, but with 50 to 75 percent earleaf acacia (*Acacia auriculiformis*), Java plum (*Syzygium cumini*), and Brazilian pepper in the sub-canopy and caesarweed (*Urena lobata*) in the ground cover.

Pine, Disturbed (76-100% Exotics) (FLUCFCS Code 4159 E4)
This habitat type is similar to FLUCFCS Code 4159 E3, but with 76 to 100 percent melaleuca in the canopy and sub-canopy.

Brazilian Pepper (FLUCFCS Code 422)
The canopy and sub-canopy of this habitat type contain Brazilian pepper and scattered melaleuca. The ground cover is primarily open and includes earleaf greenbrier (*Smilax auriculata*) and muscadine grapevine.

Melaleuca (FLUCFCS Code 424)
The canopy of this habitat type includes melaleuca and scattered Java plum. The sub-canopy contains Brazilian pepper, melaleuca, Java plum, and widely scattered slash pine, wax myrtle, and cabbage palm. The ground cover includes broomsedge, bahiagrass, dog fennel, spermacoce, cabbage palm, little blue maidencane, and scattered saw palmetto.

Melaleuca, Hydric (FLUCFCS Code 4241)
The canopy of this habitat type includes melaleuca. The sub-canopy contains melaleuca, Brazilian pepper, and cabbage palm. The ground cover includes little blue maidencane, broomsedge, torpedograss, sawgrass (*Cladium jamaicense*), swamp fern (*Telmatoblechnum serrulatum*), swamp flatsedge (*Cyperus ligularis*), Southern beaksedge (*Rhynchospora microcarpa*), Wright's nutrush, false hop sedge (*Carex lupuliformis*), and widely scattered maidencane (*Panicum hemitomon*).

Live Oak, Disturbed (0-24% Exotics) (FLUCFCS Code 4279 E1)
The canopy of this habitat type includes live oak and widely scattered slash pine. The sub-canopy contains scattered saw palmetto, live oak, and American beautyberry (*Callicarpa americana*). The ground cover is primarily open with scattered basketgrass (*Oplismenus* sp.) and caesarweed.

Cabbage Palm, Hydric (50-75% Exotics) (FLUCFCS Code 4281 E3)
The canopy of this habitat type includes cabbage palm. The sub-canopy contains cabbage palm, wax myrtle, and scattered melaleuca. The ground cover includes torpedograss, Wright's nutrush, little blue maidencane, saw palmetto, swamp flatsedge, Asiatic pennywort, marsh pennywort, broomsedge, and dog fennel.

Hardwood/Conifer Mixed, Disturbed (0-24% Exotics) (FLUCFCS Code 4349 E1)
The canopy of this habitat type includes slash pine, live oak, laurel oak, cabbage palm, and widely scattered melaleuca. The sub-canopy contains laurel oak, wax myrtle, Java plum, cabbage palm, slash pine, saw palmetto, live oak, Brazilian pepper, rusty staggerbush (*Lyonia ferruginea*), and widely scattered melaleuca. The ground cover includes carpetgrass, cabbage palm, muscadine grapevine, Asiatic pennywort, caesarweed, earleaf greenbrier, saw palmetto, dog fennel, broomsedge, and spermacoce.

Hardwood/Conifer Mixed, Disturbed (25-49% Exotics) (FLUCFCS Code 4349 E2)
This habitat type is similar to FLUCFCS Code 4349 E1, but with 25 to 49 percent Brazilian pepper in the sub-canopy.

Hardwood/Conifer Mixed, Disturbed (50-75% Exotics) (FLUCFCS Code 4349 E3)
This habitat type is similar to FLUCFCS Code 4349 E2, but with 50 to 75 percent Brazilian pepper in the sub-canopy and caesarweed in the ground cover.

Hardwood/Conifer Mixed, Disturbed (76-100% Exotics) (FLUCFCS Code 4349 E4)
This habitat type is similar to FLUCFCS Code 4349 E4, but with 76 to 100 percent earleaf acacia in the canopy and Brazilian pepper in the sub-canopy.

Mixed Hardwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 4389 E1)
The canopy of this habitat type includes live oak, laurel oak, and scattered cabbage palm. The sub-canopy contains live oak, laurel oak, cabbage palm, and scattered myrsine (*Myrsine cubana*). The ground cover is primarily open with scattered live oak.

Ditch (FLUCFCS Codes 514)
The canopy of this land use type is open. The sub-canopy contains Brazilian pepper, cabbage palm, live oak, and slash pine along the edges. The ground cover includes dotted smartweed (*Persicaria punctata*), torpedograss, Asiatic pennywort, Gulf coast spikerush (*Eleocharis cellulosa*), dwarf papyrus (*Cyperus haspan*), frog fruit (*Phyla nodiflora*), Mexican clover (*Richardia* sp.), and smallfruit primrose willow (*Ludwigia microcarpa*).

Ditch, Hydric (FLUCFCS Code 514H)
This habitat type is similar to FLUCFCS Code 514 with a higher prevalence of wetland vegetation species such as torpedograss.

Cow Pond (FLUCFCS Code 525)
The canopy and sub-canopy of this land use type are open. The ground cover includes scattered torpedograss along the edges.

Mixed Wetland Hardwoods, Disturbed (0-24% Exotics) (FLUCFCS Code 6179 E1)
The canopy of this habitat type includes laurel oak, cabbage palm, slash pine, and scattered bald cypress (*Taxodium distichum*). The sub-canopy contains laurel oak, myrsine, wax myrtle, Brazilian pepper, saltbush (*Baccharis halimifolia*), cabbage palm, and buckthorn (*Sideroxylon reclinatum*). The ground cover includes marsh pennywort, sawgrass, frog fruit, witchgrass, false fennel, broomsedge, little blue maidencane, climbing hempvine (*Mikania scandens*), earleaf greenbrier, Asiatic pennywort, Wright's nutrush, and gulfdune paspalum (*Paspalum monostachyum*).

Mixed Wetland Hardwoods, Disturbed (25-49% Exotics) (FLUCFCS Code 6179 E2)
This habitat type is similar to FLUCFCS Code 6179 E1, but with 25 to 49 percent melaleuca in the canopy and Brazilian pepper in the sub-canopy.

Mixed Wetland Hardwoods, Disturbed (50-75% Exotics) (FLUCFCS Code 6179 E3)
This habitat type is similar to FLUCFCS Code 6179 E2, but with 50 to 75 percent melaleuca in the canopy and Brazilian pepper in the sub-canopy.

Mixed Wetland Hardwoods, Disturbed (76-100% Exotics) (FLUCFCS Code 6179 E4)
This habitat type is similar to FLUCFCS Code 6179 E3, but with 76 to 100 percent Peruvian primrose willow in the sub-canopy.

Cypress, Disturbed (0-24% Exotics) (FLUCFCS Code 6219 E1)
The canopy of this habitat type includes bald cypress. The sub-canopy contains bald cypress, wax myrtle, and scattered Brazilian pepper and melaleuca. The ground cover includes sawgrass, marsh pennywort, little blue maidencane, and scattered West Indian marsh grass and torpedograss.

Cypress, Disturbed (25-49% Exotics) (FLUCFCS Code 6219 E2)
This habitat type is similar to FLUCFCS Code 6219 E1, but with 25 to 49 percent Brazilian pepper in the sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Cypress, Disturbed (50-75% Exotics) (FLUCFCS Code 6219 E3)
This habitat type is similar to FLUCFCS Code 6219 E2, but with 50 to 75 percent Brazilian pepper and melaleuca in the canopy and sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Cypress, Disturbed (76-100% Exotics) (FLUCFCS Code 6219 E4)
This habitat type is similar to FLUCFCS Code 6219 E3, but with 76 to 100 percent Melaleuca in the canopy and sub-canopy and torpedograss and West Indian marsh grass in the ground cover.

Pine, Hydric, Disturbed (0-24% Exotics) (FLUCFCS Code 6259 E1)
The canopy of this habitat type includes slash pine and widely scattered cabbage palm and melaleuca. The sub-canopy contains slash pine, wax myrtle, melaleuca, and scattered cabbage palm. The ground cover includes rush fuirena (*Fuirena scirpoidea*), little blue maidencane,

gulfdune paspalum, Asiatic pennywort, sawgrass, Wright's nutrush, corkwood (*Stillingia aquatica*), jointed spikerush (*Eleocharis interstincta*), musky mint (*Hyptis alata*), yellow-eyed grass, Southern beaksedge, rayless goldenrod (*Bigelowia nudata*), and torpedograss.

Pine, Hydric, Disturbed (25-49% Exotics) (FLUCFCS Code 6259 E2)
This habitat type is similar to FLUCFCS Code 6259 E1, but with 25 to 49 percent melaleuca in the canopy and sub-canopy and Wright's nutrush and torpedograss in the ground cover.

Pine, Hydric, Disturbed (50-75% Exotics) (FLUCFCS Code 6259 E3)
This habitat type is similar to FLUCFCS Code 6259 E2, but with 50 to 75 percent melaleuca in the canopy and sub-canopy and Wright's nutrush in the ground cover.

Pine, Hydric, Disturbed (76-100% Exotics) (FLUCFCS Code 6259 E4)
This vegetation community is similar to FLUCFCS Code 6259 E3, but with 76 to 100 percent melaleuca and Brazilian pepper in the canopy and sub-canopy.

Wetland Shrub, Disturbed (25-49% Exotics) (FLUCFCS Code 6319 E2)
The canopy of this habitat type includes scattered melaleuca. The sub-canopy contains wax myrtle, saltbush, and scattered bald cypress and melaleuca. The ground cover includes little blue maidencane, spreading beaksedge (*Rhynchospora divergens*), slender spikerush (*Eleocharis baldwinii*), Tracy's beaksedge (*Rhynchospora tracyi*), and a rush species (*Juncus* sp.).

Freshwater Marsh, Disturbed (0-24% Exotics) (FLUCFCS Code 6419 E1)
The canopy of this habitat type is primarily open with scattered bald cypress and scattered melaleuca on the edges. The sub-canopy contains scattered wax myrtle, corkwood, bald cypress, melaleuca, and widely scattered Carolina willow (*Salix caroliniana*). The ground cover includes dotted smartweed, shortleaf spike sedge (C*yperus brevifolius*), witchgrass, spikerush, sawgrass, maidencane, fireflag (*Thalia geniculata*), sand cordgrass (*Spartina bakeri*), torpedograss, pickerelweed, soft rush (*Juncus effusus*), Wright's nutrush, and West Indian marsh grass.

Freshwater Marsh, Disturbed (25-49% Exotics) (FLUCFCS Code 6419 E2)
This habitat type is similar to FLUCFCS Code 6419 E1, but with 25 to 49 percent torpedograss, Wright's nutrush, and West Indian marsh grass in the ground cover.

Freshwater Marsh, Disturbed (50-75% Exotics) (FLUCFCS Code 6419 E3)
This habitat type is similar to FLUCFCS Code 6419 E2, but with 50 to 75 percent torpedograss, Wright's nutrush, and West Indian marsh grass in the ground cover.

Freshwater Marsh, Disturbed (76-100% Exotics) (FLUCFCS Code 6419 E4)
This habitat type is similar to FLUCFCS Code 6419 E3, but with 76 to 100 percent torpedograss, Wright's nutrush, and West Indian marsh grass in the ground cover.

Wet Prairie, Disturbed (50-75% Exotics) (FLUCFCS Code 6439 E3)
The canopy and sub-canopy of this habitat type include scattered melaleuca. The ground cover contains torpedograss, Wright's nutrush, broomsedge, and Southern beaksedge.

Wet Prairie, Disturbed (75-100% Exotics) (FLUCFCS Code 6439 E4)
This habitat type is similar to FLUCFCS Code 6439 E3, but with 76 to 100 percent torpedograss and Wright's nutrush in the ground cover.

Disturbed Land (FLUCFCS Code 740)
The canopy of this land use type is primarily open with scattered slash pine and cabbage palm. The sub-canopy contains scattered wax myrtle, slash pine, saw palmetto, and Brazilian pepper. The ground cover includes bahiagrass, chocolateweed, lovegrass (*Eragrostis* sp.), broomsedge, and dog fennel.

Disturbed Land, Hydric (FLUCFCS Code 7401)
The canopy of this land use type includes scattered melaleuca, slash pine, and laurel oak. The sub-canopy contains scattered melaleuca and wax myrtle. The ground cover includes torpedograss, yellow-eyed grass, and acute spikerush (*Eleocharis acutangula*).

Spoil (FLUCFCS Code 743)
The canopy of this land use type is open. The sub-canopy contains Brazilian pepper. The ground cover includes bahiagrass, dog fennel, and spermacoce.

Berm (FLUCFCS Code 747)
The canopy of this land use type includes live oak, cabbage palm, slash pine, melaleuca, and Brazilian pepper. The sub-canopy includes live oak, slash pine, Brazilian pepper, and saw palmetto. The ground cover contains caesarweed, muscadine grapevine, dog fennel, cabbage palm, and broomsedge.

3.0 METHODOLOGY AND DISCUSSION

Surveys for Lee County protected species are based on the presence of specific vegetation associations and habitat types, as outlined in the LDC. The frequency of transects performed in these habitats was designed to meet the 80 percent minimum coverage requirement, per the LDC. Table 2 outlines those protected species that may inhabit or utilize particular vegetation associations according to the LDC.

Table 2. Potential Lee County Protected Species by Habitat Type

FLUCFCS Code	Description	Potential Protected Species
211*	Improved Pasture	Gopher tortoise (*Gopherus polyphemus*)
		Burrowing owl (*Athene cunicularia floridana*)
		Crested caracara (Caracara cheriway)
		Florida sandhill crane (*Grus canadensis pratensis*)
		Florida panther (*Puma concolor coryi*)

Table 2. (Continued)

FLUCFCS Code	Description	Potential Protected Species
262*	Low Pasture	American alligator (*Alligator mississippiensis*)
		Florida sandhill crane (*Grus canadensis pratensis*)
		Limpkin (*Aramus guarauna*)
		Little blue heron (*Egretta caerulea*)
		Reddish egret (*Egretta rufescens*)
		Roseate spoonbill (*Platalea ajaja*)
		Snail kite (*Rostrhamus sociabilis*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
		Everglades mink (*Mustela vison evergladensis*)
3219 E1 3219 E2 3219 E3 3219 E4*	Palmetto Prairie, Disturbed (0-100% Exotics)	Eastern indigo snake (*Drymarchon corais couperi*)
		Gopher frog (*Rana capito*)
		Gopher tortoise (*Gopherus polyphemus*)
		Crested caracara (*Caracara cheriway*)
		Florida sandhill crane (*Grus canadensis pratensis*)
		Southeastern American kestrel (*Falco sparverius paulus*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
		Beautiful Pawpaw (*Deeringothamnus pulchellus*)
		Curtis Milkweed (*Asclepias curtissii*)
		Fakahatchee Burmania (*Burmania flava*)
		Florida Coontie (*Zamia floridana*)
4119 E1 4119 E2 4119 E3 4119 E4*	Pine Flatwoods, Disturbed (0-100% Exotics)	Eastern indigo snake (*Drymarchon corais couperi*)
		Gopher frog (*Rana capito*)
		Gopher tortoise (*Gopherus polyphemus*)
		Red-cockaded woodpecker (*Picoides borealis*)
		Southeastern American kestrel (*Falco sparverius paulus*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
		Beautiful Pawpaw (*Deeringothamnus pulchellus*)
		Fakahatchee Burmania (*Burmania flava*)
		Florida Coontie (*Zamia floridana*)
		Satinleaf (*Chrysophyllum oliviforme*)

Table 2. (Continued)

FLUCFCS Code	Description	Potential Protected Species
4159 E1 4159 E2 4159 E3 4159 E4*	Pine, Disturbed (0-100% Exotics)	Eastern indigo snake (*Drymarchon corais couperi*)
		Gopher frog (*Rana capito*)
		Gopher tortoise (*Gopherus polyphemus*)
		Red-cockaded woodpecker (*Picoides borealis*)
		Southeastern American kestrel (*Falco sparverius paulus*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
422*	Brazilian Pepper	Florida black bear (*Ursus americanus floridanus*)
424*	Melaleuca	Big Cypress fox squirrel (*Sciurus niger avicennia*)
4241*	Melaleuca, Hydric	Big Cypress fox squirrel (*Sciurus niger avicennia*)
		Little blue heron (*Egretta caerulea*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
4279 E1	Live Oak, Disturbed (0-24% Exotics)	Eastern indigo snake (*Drymarchon corais couperi*)
		Gopher frog (*Rana capito*)
		Gopher tortoise (*Gopherus polyphemus*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
		Simpon's stopper (*Myrcianthes fragrans* var. *simpsonii*)
		Hand adder's tongue fern (*Ophioglossum palmatum*)
		Twisted air plant (*Tillandsia flexuosa*)
4281 E3	Cabbage Palm, Hydric (50-75% Exotics)	Eastern indigo snake (*Drymarchon corais couperi*)
		Crested caracara (*Caracara cheriway*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
		Simpson's Stopper (*Myrcianthes fragrans* var. *simpsonii*)
4349 E1 4349 E2 4349 E3 4349 E4*	Hardwood/Conifer Mixed, Disturbed (0-100% Exotics)	Gopher frog (*Rana capito*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
4389 E1*	Mixed Hardwoods, Disturbed (0-24% Exotics)	Gopher frog (*Rana capito*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)

Table 2. (Continued)

FLUCFCS Code	Description	Potential Protected Species
514*	Ditch	American alligator (*Alligator mississippiensis*)
		Least tern (*Sterna antillarum*)
		Limpkin (*Aramus guarauna*)
		Little blue heron (*Egretta caerulea*)
		Reddish egret (*Egretta rufescens*)
		Roseate spoonbill (*Platalea ajaja*)
		Snail Kite (*Rostrhamus sociabilis*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
		Everglades mink (*Mustela vison evergladensis*)
514H*	Ditch, Hydric	American alligator (*Alligator mississippiensis*)
		Least tern (*Sterna antillarum*)
		Limpkin (*Aramus guarauna*)
		Little blue heron (*Egretta caerulea*)
		Reddish egret (*Egretta rufescens*)
		Roseate spoonbill (*Platalea ajaja*)
		Snail Kite (*Rostrhamus sociabilis*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
		Everglades mink (*Mustela vison evergladensis*)
525*	Cow Pond	American alligator (*Alligator mississippiensis*)
		Least tern (*Sterna antillarum*)
		Limpkin (*Aramus guarauna*)
		Little blue heron (*Egretta caerulea*)
		Reddish egret (*Egretta rufescens*)
		Roseate spoonbill (*Platalea ajaja*)
		Snail kite (*Rostrhamus sociabilis*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
		Everglades mink (*Mustela vison evergladensis*)
6179 E1 6179 E2 6179 E3 6179 E4*	Mixed Wetland Hardwoods, Disturbed (0-100% Exotics)	Limpkin (*Aramus guarauna*)
		Little blue heron (*Egretta caerulea*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)

Table 2. (Continued)

FLUCFCS Code	Description	Potential Protected Species
6179 E1 6179 E2 6179 E3 6179 E4*	Mixed Wetland Hardwoods, Disturbed (0-100% Exotics) (Continued)	Everglades mink (*Mustela vison evergladensis*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
		Twisted air plant (*Tillandsia flexuosa*)
6219 E1 6219 E2 6219 E3 6219 E4*	Cypress, Disturbed (0-100% Exotics)	American alligator (*Alligator mississippiensis*)
		Gopher frog (*Rana capito*)
		Limpkin (*Aramus guarauna*)
		Little blue heron (*Egretta caerulea*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)
		Everglades mink (*Mustela vison evergladensis*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
		Twisted air plant (*Tillandsia flexuosa*)
6259 E1 6259 E2 6259 E3 6259 E4*	Pine, Hydric, Disturbed (0-100% Exotics)	Little blue heron (*Egretta caerulea*)
		Red-cockaded woodpecker (*Picoides borealis*)
		Snowy egret (*Egretta thula*)
		Southeastern American kestrel (*Falco sparverius paulus*)
		Tri-colored heron (*Egretta tricolor*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)
		Florida black bear (*Ursus americanus floridanus*)
		Florida panther (*Puma concolor coryi*)
6319 E2*	Wetland Shrub, Disturbed (25-49% Exotics)	Little blue heron (*Egretta caerulea*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
		Everglades mink (*Mustela vison evergladensis*)
6419 E1 6419 E2 6419 E3 6419 E4*	Freshwater Marsh, Disturbed (0-100% Exotics)	American alligator (*Alligator mississippiensis*)
		Florida sandhill crane (*Grus canadensis pratensis*)
		Limpkin (*Aramus guarauna*)
		Little blue heron (*Egretta caerulea*)
		Reddish egret (*Egretta rufescens*)
		Roseate spoonbill (*Platalea ajaja*)
		Snail kite (*Rostrhamus sociabilis*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
		Everglades mink (*Mustela vison evergladensis*)

Table 2. (Continued)

FLUCFCS Code	Description	Potential Protected Species
6439 E3 6439 E4*	Wet Prairie, Disturbed (50-100% Exotics)	Limpkin (*Aramus guarauna*)
		Little blue heron (*Egretta caerulea*)
		Reddish egret (*Egretta rufescens*)
		Roseate spoonbill (*Platalea ajaja*)
		Snail kite (*Rostrhamus sociabilis*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
		Everglades mink (*Mustela vison evergladensis*)
740*	Disturbed Land	Gopher tortoise (*Gopherus polyphemus*)
		Burrowing owl (*Athene cunicularia floridana*)
7401*	Disturbed Land, Hydric	American alligator (*Alligator mississippiensis*)
		Little blue heron (*Egretta caerulea*)
		Reddish egret (*Egretta rufescens*)
		Snowy egret (*Egretta thula*)
		Tri-colored heron (*Egretta tricolor*)
		Wood stork (*Mycteria americana*)
743*	Spoil Area	Gopher tortoise (*Gopherus polyphemus*)
747*	Berm	Gopher tortoise (*Gopherus polyphemus*)
		Crested caracara (*Caracara cheriway*)
		Big Cypress fox squirrel (*Sciurus niger avicennia*)

*Habitat surveyed for the species noted, although not required per the LDC.

PAI conducted the protected species survey for 10 days between May 11 and June 24, 2021. A summary of weather conditions during the protected species survey is provided in Table 3.

Table 3. Summary of Weather Conditions for the Protected Species Survey

Day	Temperature (°Fahrenheit)	Wind (mph)	Cloud Cover (Percent)
May 11, 2021	Mid- to High 80s	1-4 ESE	50-75
May 12, 2021	High 80s to Low 90s	9-13 WSW	15-50
May 14, 2021	High 70s to Low 80s	0-8 NE	0-50
May 18, 2021	Low 80s	15-21 ENE	50-75
May 25, 2021	Low to Mid-80s	6-9 NE	25-30
May 26, 2021	Mid- to High 80s	6 SE	50-60
May 28, 2021	Low to Mid-80s	0-7 SSW	0-25
June 11, 2021	Mid-80s to Low 90s	7-9 W	25-45
June 23, 2021	Mid-70s to Low 80s	0-6 S	100
June 24, 2021	Low 70s to Mid-80s	0-6 SE	10-90

The survey utilized meandering pedestrian transects per the WilsonMiller, Inc. methodology. Visibility on the surveyed habitats varied due to the density of vegetation. A summary of the limits of visibility, total length of transects walked, and percent coverage by habitat type is provided in Table 4. An aerial with approximate locations of walked transects and species locations is provided as Appendix B.

Table 4. Summary of Habitat Coverage

FLUCFCS Code	Description	Total Acres	Transect Length (Feet)	Average Visibility (Feet)**	Percent Coverage
211*	Improved Pasture	473.76	103,185	80	80
262*	Low Pasture	27.96	5,075	60	50
3219 E1	Palmetto Prairie, Disturbed (0-24% Exotics)	3.13	1,116	55	90
3219 E2	Palmetto Prairie, Disturbed (25-49% Exotics)	4.15	1,537	50	85
3219 E3	Palmetto Prairie, Disturbed (50-75% Exotics)	2.11	1,471	25	80
3219 E4*	Palmetto Prairie, Disturbed (76-100% Exotics)	0.73	318	20	40
4119 E1	Pine Flatwoods, Disturbed (0-24% Exotics)	53.32	20,904	50	90
4119 E2	Pine Flatwoods, Disturbed (25-49% Exotics)	28.79	11,844	45	85
4119 E3	Pine Flatwoods, Disturbed (50-75% Exotics)	2.64	1,150	40	80
4119 E4*	Pine Flatwoods, Disturbed (76-100% Exotics)	2.87	833	30	40
4159 E1	Pine, Disturbed (0-24% Exotics)	11.18	4,383	50	90
4159 E2	Pine, Disturbed (25-49% Exotics)	2.76	1,135	45	85
4159 E3	Pine, Disturbed (50-75% Exotics)	2.07	1,202	30	80
4159 E4*	Pine, Disturbed (76-100% Exotics)	1.51	592	25	45
422*	Brazilian Pepper	3.67	1,279	25	40
424*	Melaleuca	2.93	928	55	80
4241*	Melaleuca, Hydric	133.24	52,235	50	90
4279 E1	Live Oak, Disturbed (0-24% Exotics)	1.20	418	50	80
4281 E3	Cabbage Palm, Hydric (50-75% Exotics)	11.15	4,317	45	80
4349 E1	Hardwood/Conifer Mixed, Disturbed (0-24% Exotics)	6.52	2,248	60	95

Table 4. (Continued)

FLUCFCS Code	Description	Total Acres	Transect Length (Feet)	Average Visibility (Feet)**	Percent Coverage
4349 E2	Hardwood/Conifer Mixed, Disturbed (25-49% Exotics)	6.05	2,240	50	85
4349 E3	Hardwood/Conifer Mixed, Disturbed (50-75% Exotics)	7.39	3,219	40	80
4349 E4*	Hardwood/Conifer Mixed, Disturbed (76-100% Exotics)	2.49	1,356	30	75
4389 E1	Mixed Hardwoods, Disturbed (0-24% Exotics)	4.51	2,087	40	85
514*	Ditch	30.71	14,213	40	85
514H*	Ditch, Hydric	8.14	3,767	40	85
525*	Cow Pond	0.22	102	40	85
6179 E1	Mixed Wetland Hardwoods, Disturbed (0-24% Exotics)	30.69	14,204	40	85
6179 E2	Mixed Wetland Hardwoods, Disturbed (25-49% Exotics)	1.77	819	40	85
6179 E3	Mixed Wetland Hardwoods, Disturbed (50-75% Exotics)	1.48	737	35	80
6179 E4*	Mixed Wetland Hardwoods, Disturbed (76-100% Exotics)	3.35	1,642	20	45
6219 E1	Cypress, Disturbed (0-24% Exotics)	17.46	8,028	45	95
6219 E2	Cypress, Disturbed (25-49% Exotics)	48.22	22,317	40	85
6219 E3	Cypress, Disturbed (50-75% Exotics)	11.90	5,924	35	80
6219 E4*	Cypress, Disturbed (76-100% Exotics)	8.66	4,527	25	60
6259 E1	Pine, Hydric, Disturbed (0-24% Exotics)	1.37	597	45	90
6259 E2	Pine, Hydric, Disturbed (25-49% Exotics)	11.69	5,410	40	85
6259 E3	Pine, Hydric, Disturbed (50-75% Exotics)	25.38	12,635	35	80
6259 E4*	Pine, Hydric, Disturbed (76-100% Exotics)	1.72	749	25	50
6319 E2	Wetland Shrub, Disturbed (25-49% Exotics)	5.63	3,883	30	95
6419 E1	Freshwater Marsh, Disturbed (0-24% Exotics)	15.59	6,791	45	90
6419 E2	Freshwater Marsh, Disturbed (25-49% Exotics)	2.67	1,163	45	90

Table 4. (Continued)

FLUCFCS Code	Description	Total Acres	Transect Length (Feet)	Average Visibility (Feet)**	Percent Coverage
6419 E3	Freshwater Marsh, Disturbed (50-75% Exotics)	17.65	7,688	45	90
6419 E4*	Freshwater Marsh, Disturbed (76-100% Exotics)	126.88	55,269	45	90
6439 E3	Wet Prairie, Disturbed (50-75% Exotics)	7.24	3,351	40	85
6439 E4*	Wet Prairie, Disturbed (76-100% Exotics)	3.37	1,560	40	85
740*	Disturbed Land	6.47	2,975	45	95
7401*	Disturbed Land, Hydric	9.30	4,304	40	85
743*	Spoil Area	0.21	97	40	85
747*	Berm	39.18	18,133	40	85

*Habitat surveyed, although not required per the LDC.
**Average visibility to each side of the transect.

4.0 SURVEY RESULTS

A total of one (1) gopher tortoise (*Gopherus polyphemus*), two (2) crested caracara (*Caracara cheriway*), one (1) Florida sandhill crane (*Grus canadensis pratensis*), five (5) wood storks (*Mycteria americana*), six (6) Big Cypress fox squirrel (*Sciurus niger avicennia*), and Florida panther (*Puma concolor coryi*) tracks were observed on the Project site during the protected species survey. The gopher tortoise, Florida sandhill crane, and Big Cypress fox squirrel are listed as threatened by the Florida Fish and Wildlife Conservation Commission (FWCC) (2021). The crested caracara and wood stork are listed as federally threatened by the FWCC and the U.S. Fish and Wildlife Service (USFWS). The Florida panther is listed as federally endangered by the FWCC and the USFWS. A crested caracara nest was previously documented in the northern portion of the property. This nest was active during the 2020-2021 caracara nesting season. No other listed species nests or nesting activity were observed on the Project during the protected species survey. The locations of the gopher tortoise, crested caracara, crested caracara nest, Florida sandhill crane, wood stork, and Florida panther tracks are depicted on Appendix B.

No Lee County protected plant species were observed on the property during the protected species survey. However, the giant wild pine (*Tillandsia utriculata*), common wild pine (*Tillandsia fasciculata*), Northern needleleaf (*Tillandsia balbisiana*), butterfly orchid (*Encyclia tampensis*), and rigid orchid (*Epidendrum rigidum*) were documented on the site. Although not listed as Lee County protected species, the giant wild pine, common wild pine, and rigid orchid are listed as endangered by the Florida Department of Agriculture and Consumer Services (FDACS). The Northern needleleaf and butterfly orchid are listed by FDACS as threatened and commercially exploited, respectively. The locations of the listed plant species are depicted on Appendix B.

5.0 ABUNDANCE OF PROTECTED SPECIES OBSERVED

Density calculations are provided for each Lee County protected species documented within each habitat type during the protected species survey and additional fieldwork conducted on the Project site. Separate calculations are provided if more than one of the same protected species is observed within different habitat types. Please note that density estimates for are only provided for Lee County protected species.

The Lee County protected species abundance calculations are provided in Table 5, while Table 6 summarizes the protected species survey findings.

Table 5. Lee County Protected Species Abundance Calculations

Protected Species Density = $\{n\ (C)/[L\ (W_1+W_2)]\}\ (43{,}560\ ft^2/ac)$

Where n = number of individuals observed or active plus inactive gopher tortoise burrows
L = length of transect
W_1 = distance of visibility to the right of transect
W_2 = distance of visibility to the left of transect
C = gopher tortoise conversion factor (0.5)*

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*Used for gopher tortoise calculation only. Conversion only applied when gopher tortoise burrow, not gopher tortoise itself, is documented.

Gopher Tortoise (GT)
FLUCFCS Code 4119 E1
= $\{1\ GT/[(20{,}904\ ft)\ (50\ ft+50\ ft)]\}\ (43{,}560\ ft^2/ac)$
= $\{1/2{,}090{,}400\ ft^2\}\ (43{,}560\ ft^2/ac)$
= $(4 \times 10^{-7}\ ft^2)\ (43{,}560\ ft^2/ac)$
= 0.02 Gopher tortoises / acre

Wood Stork (WOST)
FLUCFCS Code 6419 E3
= $\{5\ WOST/[(7{,}688\ ft)\ (45\ ft+45\ ft)]\}\ (43{,}560\ ft^2/ac)$
= $\{5/691{,}920\ ft^2\}\ (43{,}560\ ft^2/ac)$
= $(7.2 \times 10^{-6}\ ft^2)\ (43{,}560\ ft^2/ac)$
= 0.31 Wood storks / acre

Crested Caracara (CRCA)
FLUCFCS Code 747
= $\{2\ CRCA/[(18{,}133\ ft)\ (40\ ft+40\ ft)]\}\ (43{,}560\ ft^2/ac)$
= $\{2/1{,}450{,}640\ ft^2\}\ (43{,}560\ ft^2/ac)$
= $(1.3 \times 10^{-6}\ ft^2)\ (43{,}560\ ft^2/ac)$
= 0.06 Crested caracaras / acre

Table 5. (Continued)

Crested Caracara Nest (CCNE)

FLUCFCS Code 211

= {1 CCNE/[(103,185 ft) (80 ft+80 ft)]} (43,560 ft^2/ac)
= {1/16,509,600 ft^2} (43,560 ft^2/ac)
= (6 x 10^{-8} ft^2) (43,560 ft^2/ac)
= 0.003 Crested caracara nests / acre

Big Cypress Fox Squirrel (BCFS)

FLUCFCS Code 4119 E1

= {1 BCFS/[(20,904 ft) (50 ft+50 ft)]} (43,560 ft^2/ac)
= {1/2,090,400 ft^2} (43,560 ft^2/ac)
= (4 x 10^{-7} ft^2) (43,560 ft^2/ac)
= 0.02 Big Cypress fox squirrels / acre

FLUCFCS Code 4241

= {2 BCFS/[(52,235 ft) (50 ft+50 ft)]} (43,560 ft^2/ac)
= {2/5,223,500 ft^2} (43,560 ft^2/ac)
= (3.9 x 10^{-7} ft^2) (43,560 ft^2/ac)
= 0.02 Big Cypress fox squirrels / acre

FLUCFCS Code 6179 E1

= {1 BCFS/[(14,204 ft) (40 ft+40 ft)]} (43,560 ft^2/ac)
= {1/1,136,320 ft^2} (43,560 ft^2/ac)
= (8 x 10^{-7} ft^2) (43,560 ft^2/ac)
= 0.04 Big Cypress fox squirrels / acre

FLUCFCS Code 747

= {2 BCFS/[(18,133 ft) (40 ft+40 ft)]} (43,560 ft^2/ac)
= {2/1,450,640 ft^2} (43,560 ft^2/ac)
= (1.3 x 10^{-6} ft^2) (43,560 ft^2/ac)
= 0.06 Big Cypress fox squirrels / acre

Florida Sandhill Crane (SACR)

FLUCFCS Code 211

= {1 SACR/[(103,185 ft) (80 ft+80 ft)]} (43,560 ft^2/ac)
= {1/16,509,600 ft^2} (43,560 ft^2/ac)
= (6 x 10^{-8} ft^2) (43,560 ft^2/ac)
= 0.003 Florida sandhill cranes / acre

Florida Panther Tracks (FPT)

FLUCFCS Code 6419 E4

= {1 FPT/[(55,269 ft) (45 ft+45 ft)]} (43,560 ft^2/ac)
= {1/4,974,210 ft^2} (43,560 ft^2/ac)
= (2 x 10^{-7} ft^2) (43,560 ft^2/ac)
= 0.01 Florida panther tracks / acre

Table 6. Lee County Protected Species Survey Summary

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Reptiles					
American Alligator (*Alligator mississippiensis*)	262	50		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
	7401	90		X	
Eastern indigo snake (*Drymarchon corais couperi*)	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	
	4119 E1	90		X	
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	
	4159 E2	85		X	
	4159 E3	80		X	
	4159 E4	45		X	
	4279 E1	80		X	
	4281 E3	80		X	
Gopher Frog (*Lithobates capito*)	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	
	4119 E1	90		X	
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Reptiles (Continued)					
Gopher Frog (*Lithobates capito*) (Continued)	4159 E2	85		X	
	4159 E3	80		X	
	4159 E4	45		X	
	4279 E1	80		X	
	4349 E1	95		X	
	4349 E2	85		X	
	4349 E3	80		X	
	4349 E4	75		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
Gopher tortoise (*Gopherus polyphemus*)	211	80		X	
	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	
	4119 E1	90	X		0.02
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	
	4159 E2	85		X	
	4159 E3	80		X	
	4159 E4	45		X	
	4279 E1	85		X	
	4349 E1	95		X	
	4349 E2	85		X	
	4349 E3	80		X	
	4349 E4	75		X	
	740	95		X	
	743	85		X	
	747	85		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Birds					
Burrowing owl (*Athene cunicularia floridana*)	211	80		X	
	740	95		X	
Crested caracara (*Caracara cheriway*)	211	80	X (nest)		0.003
	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	
	4281 E3	80		X	
	747	85	X		0.06
Florida sandhill crane (*Grus canadensis pratensis*)	211	80	X		0.003
	262	50		X	
	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
Least Tern (*Sterna antillarum*)	514	85		X	
	514H	85		X	
	525	85		X	
Limpkin (*Aramus guarauna*)	262	50		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6179 E1	85		X	
	6179 E2	85		X	
	6179 E3	80		X	
	6179 E4	80		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6419 E1	90		X	
	6419 E2	90		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Birds (Continued)					
Limpkin (*Aramus guarauna*) (Continued)	6419 E3	90		X	
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	
Little Blue Heron (*Egretta caerulea*)	262	50		X	
	4241	90		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6179 E1	85		X	
	6179 E2	85		X	
	6179 E3	80		X	
	6179 E4	45		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6259 E1	90		X	
	6259 E2	85		X	
	6259 E3	80		X	
	6259 E4	50		X	
	6319 E2	95		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	
	7401	85		X	
Red-Cockaded Woodpecker (*Picoides borealis*)	4119 E1	90		X	
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	
	4159 E2	85		X	
	4159 E3	80		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Birds (Continued)					
Red-Cockaded Woodpecker (*Picoides borealis*) (Continued)	4159 E4	45		X	
	6259 E1	90		X	
	6259 E2	85		X	
	6259 E3	80		X	
	6259 E4	50		X	
Reddish Egret (*Egretta rufescens*)	262	50		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	
	7401	85		X	
Roseate Spoonbill (*Platalea ajaja*)	262	50		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	
Snail Kite (*Rostrhamus sociabilis*)	262	50		X	
	514	85		X	
	525	85		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Birds (Continued)					
Snowy Egret (*Egretta thula*)	262	50		X	
	4241	90		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6179 E1	85		X	
	6179 E2	85		X	
	6179 E3	80		X	
	6179 E4	45		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6259 E1	90		X	
	6259 E2	85		X	
	6259 E3	80		X	
	6259 E4	50		X	
	6319 E2	95		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	
	7401	85		X	
Southeastern American Kestrel (*Falco sparverius paulus*)	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	
	4119 E1	90		X	
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	
	4159 E2	85		X	
	4159 E3	80		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Birds (Continued)					
Southeastern American Kestrel (*Falco sparverius paulus*) (Continued)	4159 E4	45		X	
	6259 E1	90		X	
	6259 E2	85		X	
	6259 E3	80		X	
	6259 E4	50		X	
Tri-Colored Heron (*Egretta tricolor*)	262	50		X	
	4241	90		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6179 E1	85		X	
	6179 E2	85		X	
	6179 E3	80		X	
	6179 E4	45		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6259 E1	90		X	
	6259 E2	85		X	
	6259 E3	80		X	
	6259 E4	50		X	
	6319 E2	95		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	
	7401	85		X	
Wood Stork (*Mycteria americana*)	262	50		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6219 E1	95		X	
	6219 E2	85		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Birds (Continued)					
Wood Stork (*Mycteria americana*) (Continued)	6219 E3	80		X	
	6219 E4	60		X	
	6319 E2	95		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90	X		0.31
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	
	7401	85		X	
Mammals					
Big Cypress Fox Squirrel (*Sciurus niger avicennia*)	4119 E1	90	X		0.02
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	
	4159 E2	85		X	
	4159 E3	80		X	
	4159 E4	45		X	
	424	80		X	
	4241	90	X		0.02
	4279 E1	80		X	
	4349 E1	95		X	
	4349 E2	85		X	
	4349 E3	80		X	
	4349 E4	75		X	
	4389 E1	85		X	
	6179 E1	85	X		0.04
	6179 E2	85		X	
	6179 E3	80		X	
	6179 E4	45		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6259 E1	90		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Mammals (Continued)					
Big Cypress Fox Squirrel (*Sciurus niger avicennia*) (Continued)	6259 E2	85		X	
	6259 E3	80		X	
	6259 E4	50		X	
	747	85	X		0.06
Everglades Mink (*Mustela vison evergladensis*)	262	50		X	
	514	85		X	
	514H	85		X	
	525	85		X	
	6179 E1	85		X	
	6179 E2	85		X	
	6179 E3	80		X	
	6179 E4	45		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6319 E2	95		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90		X	
	6439 E3	85		X	
	6439 E4	85		X	
Florida Black Bear (*Ursus americanus floridanus*)	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	
	4119 E1	90		X	
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	
	4159 E2	85		X	
	4159 E3	80		X	
	4159 E4	45		X	
	422	40		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Mammals (Continued)					
Florida Black Bear (*Ursus americanus floridanus*) (Continued)	4279 E1	80		X	
	4281 E3	80		X	
	4349 E1	95		X	
	4349 E2	85		X	
	4349 E3	80		X	
	4349 E4	75		X	
	4389 E1	85		X	
	6179 E1	85		X	
	6179 E2	85		X	
	6179 E3	80		X	
	6179 E4	45		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6259 E1	90		X	
	6259 E2	85		X	
	6259 E3	80		X	
	6259 E4	50		X	
	6319 E2	95		X	
	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	
	4119 E1	90		X	
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	
	4159 E2	85		X	
	4159 E3	80		X	
Florida Panther (tracks) (*Puma concolor coryi*)	3219 E1	90		X	
	3219 E2	85		X	
	3219 E3	80		X	
	3219 E4	40		X	

Table 6. (Continued)

Protected Species	FLUCFCS Code/Area	Percent Area Surveyed	Present	Absent	Density (Per Acre)
Mammals (Continued)					
Florida Panther (tracks) (*Puma concolor coryi*) (Continued)	4119 E1	90		X	
	4119 E2	85		X	
	4119 E3	80		X	
	4119 E4	40		X	
	4159 E1	90		X	
	4159 E2	85		X	
	4159 E3	80		X	
	4159 E4	45		X	
	4279 E1	80		X	
	4281 E3	80		X	
	4349 E1	95		X	
	4349 E2	85		X	
	4349 E3	80		X	
	4349 E4	75		X	
	4389 E1	85		X	
	6179 E1	85		X	
	6179 E2	85		X	
	6179 E3	80		X	
	6179 E4	45		X	
	6219 E1	95		X	
	6219 E2	85		X	
	6219 E3	80		X	
	6219 E4	60		X	
	6259 E1	90		X	
	6259 E2	85		X	
	6259 E3	80		X	
	6259 E4	50		X	
	6319 E2	95		X	
	6419 E1	90		X	
	6419 E2	90		X	
	6419 E3	90		X	
	6419 E4	90	X		0.01
	6439 E3	85		X	
	6439 E4	85		X	

6.0 MANAGEMENT ACTIVITIES

Prior to the issuance of a development order, a protected species management plan per LDC 10-474 will be prepared and submitted to the Department of Community Development as part of the Lee County review process for the Project. The protected species management plan will outline protection measures for the protected species documented on the Project site.

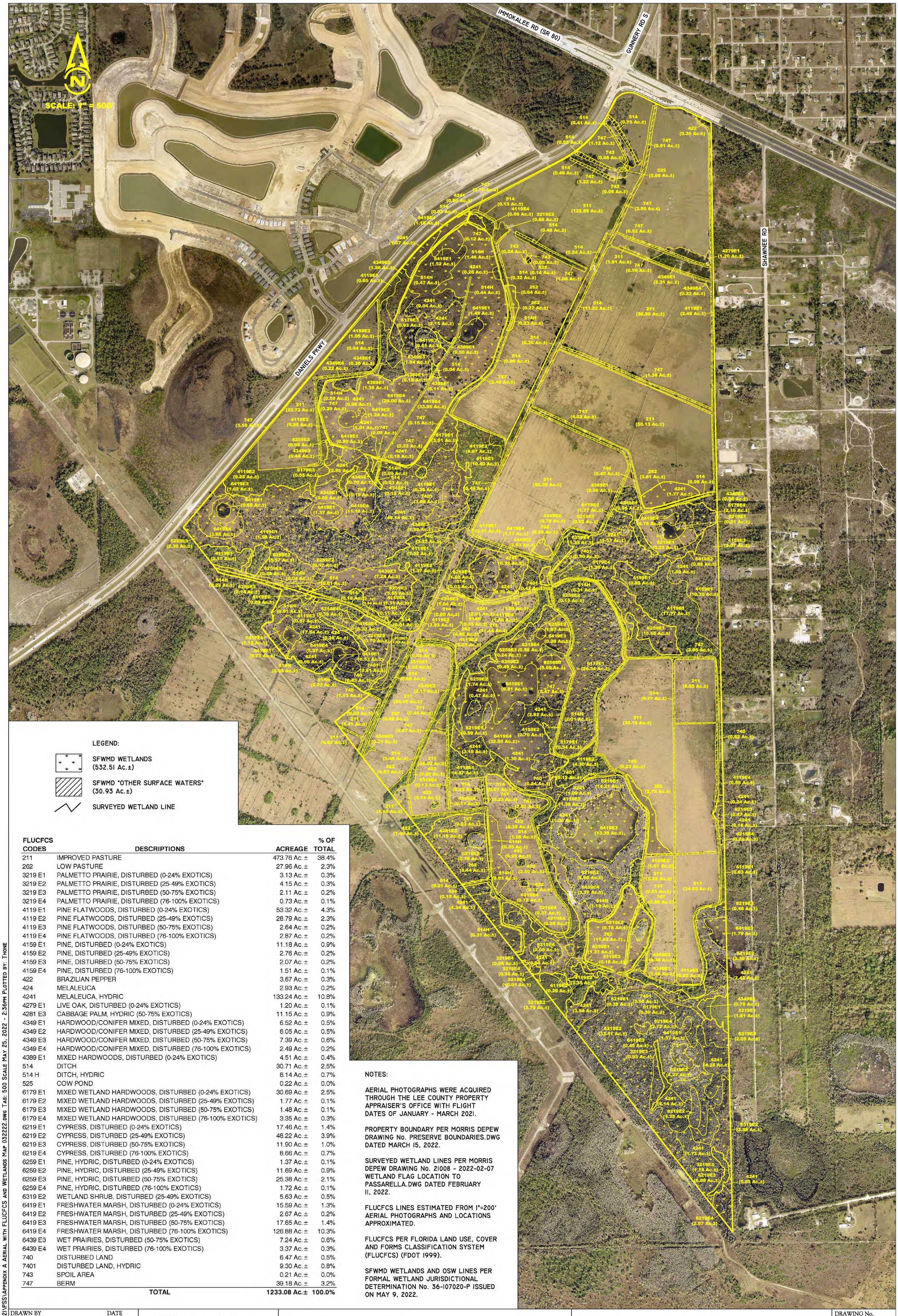
7.0 REFERENCES

Florida Department of Transportation. 1999. Florida Land Use, Cover and Forms Classification System (FLUCFCS). Procedure No. 550-010-001-a. Third Edition.

Florida Fish and Wildlife Conservation Commission. 2021. Florida's Endangered Species, Threatened Species and Species of Special Concern. Official Lists. Florida Fish and Wildlife Conservation Commission. Tallahassee, Florida.

APPENDIX A

AERIAL WITH FLUCFCS AND WETLANDS MAP



LEGEND:

SFWMD WETLANDS (532.51 Ac.±)

SFWMD "OTHER SURFACE WATERS" (30.93 Ac.±)

SURVEYED WETLAND LINE

FLUCFCS CODES	DESCRIPTIONS	ACREAGE	% OF TOTAL
211	IMPROVED PASTURE	473.76 Ac.±	38.4%
262	LOW PASTURE	27.96 Ac.±	2.3%
3219 E1	PALMETTO PRAIRIE, DISTURBED (0-24% EXOTICS)	3.13 Ac.±	0.3%
3219 E2	PALMETTO PRAIRIE, DISTURBED (25-49% EXOTICS)	4.15 Ac.±	0.3%
3219 E3	PALMETTO PRAIRIE, DISTURBED (50-75% EXOTICS)	2.11 Ac.±	0.2%
3219 E4	PALMETTO PRAIRIE, DISTURBED (76-100% EXOTICS)	0.73 Ac.±	0.1%
4119 E1	PINE FLATWOODS, DISTURBED (0-24% EXOTICS)	53.32 Ac.±	4.3%
4119 E2	PINE FLATWOODS, DISTURBED (25-49% EXOTICS)	28.79 Ac.±	2.3%
4119 E3	PINE FLATWOODS, DISTURBED (50-75% EXOTICS)	2.64 Ac.±	0.2%
4119 E4	PINE FLATWOODS, DISTURBED (76-100% EXOTICS)	2.87 Ac.±	0.2%
4159 E1	PINE, DISTURBED (0-24% EXOTICS)	11.18 Ac.±	0.9%
4159 E2	PINE, DISTURBED (25-49% EXOTICS)	2.76 Ac.±	0.2%
4159 E3	PINE, DISTURBED (50-75% EXOTICS)	2.07 Ac.±	0.2%
4159 E4	PINE, DISTURBED (76-100% EXOTICS)	1.51 Ac.±	0.1%
422	BRAZILIAN PEPPER	3.67 Ac.±	0.3%
424	MELALEUCA	2.93 Ac.±	0.2%
4241	MELALEUCA, HYDRIC	133.24 Ac.±	10.8%
4279 E1	LIVE OAK, DISTURBED (0-24% EXOTICS)	1.20 Ac.±	0.1%
4281 E3	CABBAGE PALM, HYDRIC (50-75% EXOTICS)	11.15 Ac.±	0.9%
4349 E1	HARDWOOD/CONIFER MIXED, DISTURBED (0-24% EXOTICS)	6.52 Ac.±	0.5%
4349 E2	HARDWOOD/CONIFER MIXED, DISTURBED (25-49% EXOTICS)	6.05 Ac.±	0.5%
4349 E3	HARDWOOD/CONIFER MIXED, DISTURBED (50-75% EXOTICS)	7.39 Ac.±	0.6%
4349 E4	HARDWOOD/CONIFER MIXED, DISTURBED (76-100% EXOTICS)	2.49 Ac.±	0.2%
4389 E1	MIXED HARDWOODS, DISTURBED (0-24% EXOTICS)	4.51 Ac.±	0.4%
514	DITCH	30.71 Ac.±	2.5%
514 H	DITCH, HYDRIC	8.14 Ac.±	0.7%
525	COW POND	0.22 Ac.±	0.0%
6179 E1	MIXED WETLAND HARDWOODS, DISTURBED (0-24% EXOTICS)	30.69 Ac.±	2.5%
6179 E2	MIXED WETLAND HARDWOODS, DISTURBED (25-49% EXOTICS)	1.77 Ac.±	0.1%
6179 E3	MIXED WETLAND HARDWOODS, DISTURBED (50-75% EXOTICS)	1.48 Ac.±	0.1%
6179 E4	MIXED WETLAND HARDWOODS, DISTURBED (76-100% EXOTICS)	3.35 Ac.±	0.3%
6219 E1	CYPRESS, DISTURBED (0-24% EXOTICS)	17.46 Ac.±	1.4%
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6219 E4	CYPRESS, DISTURBED (76-100% EXOTICS)	8.66 Ac.±	0.7%
6259 E1	PINE, HYDRIC, DISTURBED (0-24% EXOTICS)	1.37 Ac.±	0.1%
6259 E2	PINE, HYDRIC, DISTURBED (25-49% EXOTICS)	11.69 Ac.±	0.9%
6259 E3	PINE, HYDRIC, DISTURBED (50-75% EXOTICS)	25.38 Ac.±	2.1%
6259 E4	PINE, HYDRIC, DISTURBED (76-100% EXOTICS)	1.72 Ac.±	0.1%
6319 E2	WETLAND SHRUB, DISTURBED (25-49% EXOTICS)	5.63 Ac.±	0.5%
6419 E1	FRESHWATER MARSH, DISTURBED (0-24% EXOTICS)	15.59 Ac.±	1.3%
6419 E2	FRESHWATER MARSH, DISTURBED (25-49% EXOTICS)	2.67 Ac.±	0.2%
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6439 E3	WET PRAIRIES, DISTURBED (50-75% EXOTICS)	7.24 Ac.±	0.6%
6439 E4	WET PRAIRIES, DISTURBED (76-100% EXOTICS)	3.37 Ac.±	0.3%
740	DISTURBED LAND	6.47 Ac.±	0.5%
7401	DISTURBED LAND, HYDRIC	9.30 Ac.±	0.8%
743	SPOIL AREA	0.21 Ac.±	0.0%
747	BERM	39.18 Ac.±	3.2%
	TOTAL	**1233.08 Ac.±**	**100.0%**

NOTES:

AERIAL PHOTOGRAPHS WERE ACQUIRED THROUGH THE LEE COUNTY PROPERTY APPRAISER'S OFFICE WITH FLIGHT DATES OF JANUARY - MARCH 2021.

PROPERTY BOUNDARY PER MORRIS DEPEW DRAWING No. PRESERVE BOUNDARIES.DWG DATED MARCH 15, 2022.

SURVEYED WETLAND LINES PER MORRIS DEPEW DRAWING No. 21008 - 2022-02-07 WETLAND FLAG LOCATION TO PASSARELLA.DWG DATED FEBRUARY 11, 2022.

FLUCFCS LINES ESTIMATED FROM 1"=200' AERIAL PHOTOGRAPHS AND LOCATIONS APPROXIMATED.

FLUCFCS PER FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCFCS) (FDOT 1999).

SFWMD WETLANDS AND OSW LINES PER FORMAL WETLAND JURISDICTIONAL DETERMINATION No. 36-107020-P ISSUED ON MAY 9, 2022.

J:\2019\19LL3192\2021\PSS\APPENDIX A AERIAL WITH FLUCFCS AND WETLANDS MAP 032222.DWG TAB: 500 SCALE MAY 25, 2022 - 2:36PM PLOTTED BY: THONE

DRAWN BY	DATE
P.F./T.S.	3/22/22
DESIGNED BY	DATE
J.T./B.T.	3/22/22
REVISED	DATE

13620 Metropolis Avenue
Suite 200
Ft. Myers, FL 33912
Phone (239) 274-0067
Fax (239) 274-0069

Passarella & Associates, Inc.
Consulting Ecologists

DANIELS PARKWAY SOUTH

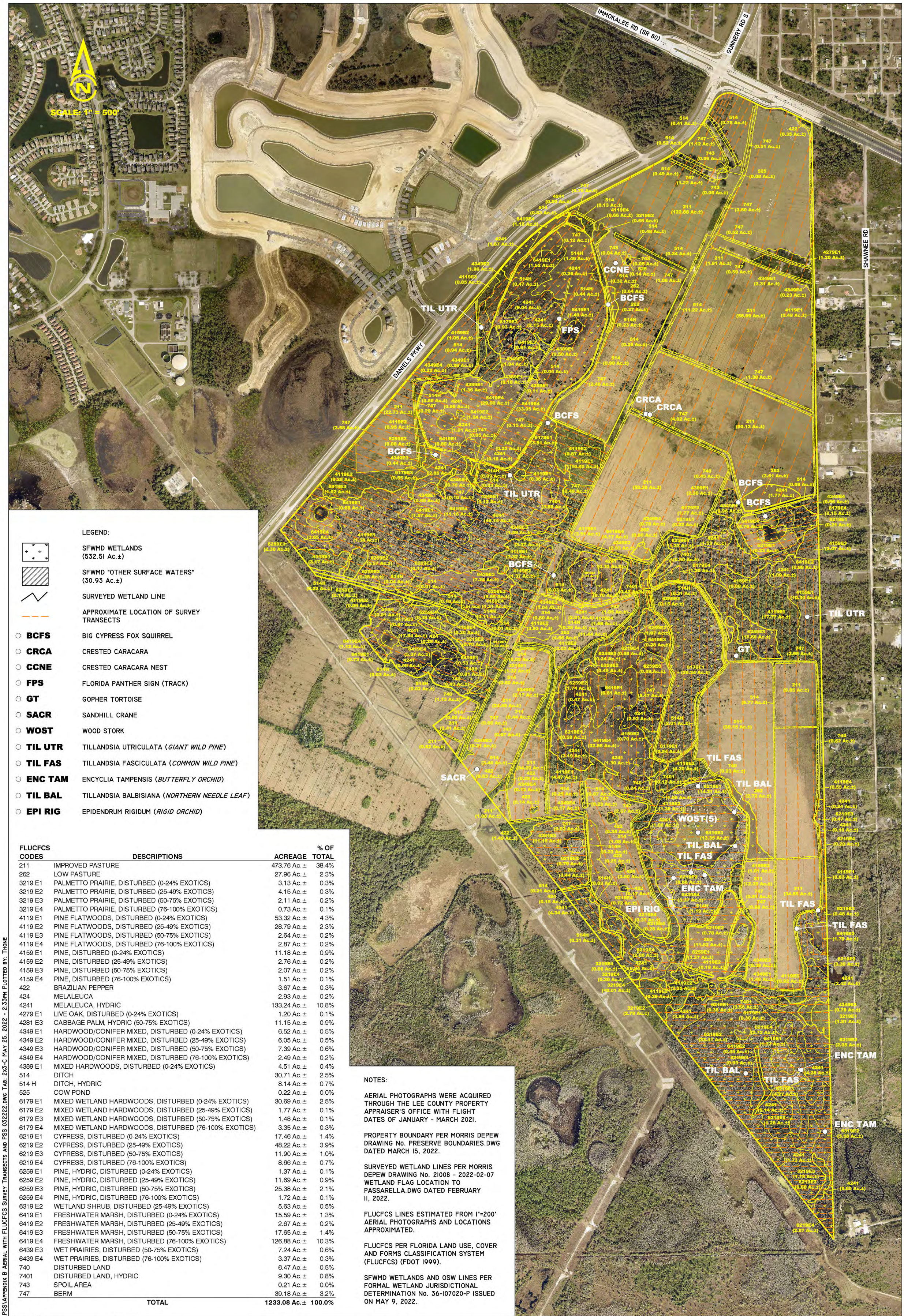
AERIAL WITH FLUCFCS AND WETLANDS MAP

DRAWING No. 19lll3192

SHEET No. APPENDIX A

APPENDIX B

AERIAL WITH FLUCFCS, SURVEY TRANSECTS, AND PROTECTED SPECIES LOCATIONS



LEGEND:

- SFWMD WETLANDS (532.51 Ac.±)
- SFWMD "OTHER SURFACE WATERS" (30.93 Ac.±)
- SURVEYED WETLAND LINE
- APPROXIMATE LOCATION OF SURVEY TRANSECTS
- **BCFS** BIG CYPRESS FOX SQUIRREL
- **CRCA** CRESTED CARACARA
- **CCNE** CRESTED CARACARA NEST
- **FPS** FLORIDA PANTHER SIGN (TRACK)
- **GT** GOPHER TORTOISE
- **SACR** SANDHILL CRANE
- **WOST** WOOD STORK
- **TIL UTR** TILLANDSIA UTRICULATA (*GIANT WILD PINE*)
- **TIL FAS** TILLANDSIA FASCICULATA (*COMMON WILD PINE*)
- **ENC TAM** ENCYCLIA TAMPENSIS (*BUTTERFLY ORCHID*)
- **TIL BAL** TILLANDSIA BALBISIANA (*NORTHERN NEEDLE LEAF*)
- **EPI RIG** EPIDENDRUM RIGIDUM (*RIGID ORCHID*)

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J:\2019\19LLL3192\2021\PSS\APPENDIX B AERIAL WITH FLUCFCS SURVEY TRANSECTS AND PSS 032222.DWG TAB: 2X3-C MAY 25, 2022 - 2:33PM PLOTTED BY: THONE

DRAWN BY	P.F./T.S.
DATE	9/7/21
DESIGNED BY	C.R./J.T.
DATE	9/7/21
REVISED	T.S.
DATE	3/22/22

13620 Metropolis Avenue
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Ft. Myers, FL 33912
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Fax (239) 274-0069

PASSARELLA & ASSOCIATES INC
Consulting Ecologists

DANIELS PARKWAY SOUTH

AERIAL WITH FLUCFCS, SURVEY TRANSECTS, AND PROTECTED SPECIES LOCATIONS

DRAWING No. 19lll3192

SHEET No. APPENDIX B

RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

ATTACHMENT 5

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENTS CPA2021-00017 & CPA2021-00018

INTEGRATED GROUNDWATER / SURFACE WATER ANALYSIS

[June 10, 2022]

EXHIBIT A

OF INTEGRATED GROUNDWATER / SURFACE WATER ANALYSIS

DRAINAGE REPORT

MORRIS DEPEW
ENGINEERS · PLANNERS · SURVEYORS
LANDSCAPE ARCHITECTS

2914 Cleveland Avenue | Fort Myers, Florida 33901
Phone (239) 337-3993 | Toll Free (866) 337-7341
www.morris-depew.com

Drainage Report

June 2022

Daniels South

Fort Myers Florida, Florida

Prepared for:

Lennar Homes

10541 Ben C Pratt Six Mile Cypress Pkwy

Fort Myers, FL 33966

Prepared By:

Paul M. Torocco, PE # 93442

&

Ryan M. Shute, PE # 54597

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Modeling Software and Hydraulic/Hydrologic Parameters....4
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2. Existing Conditions Node Map
3. Proposed Conditions Node Map

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4. Proposed Conditions Time of Concentration
5. Rainfall Data for Design Storm Events
6. Existing Conditions Model Discharge Results
7. Proposed Conditions Model Discharge Results
8. Proposed Conditions Model Stages

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Appendix B – Existing Conditions Node Map
Appendix C – Existing Conditions ICPR4 Input Report
Appendix D – Existing Conditions ICPR4 Node Max
Appendix E – Existing Conditions ICPR4 Link Max
Appendix F – Existing Conditions ICPR4 Manual Basin Max
Appendix G – Proposed Conditions Node Map
Appendix H – Proposed Conditions ICPR4 Input Report
Appendix I – Proposed Conditions ICPR4 Node Max
Appendix J – Proposed Conditions ICPR4 Link Max
Appendix K – Proposed Conditions ICPR4 Manual Basin Max
Appendix L – Progressive Water Resources Integrated Model Analysis

EXECUTIVE SUMMARY

Daniels South is a 1,233-acre project located at the intersection of Daniels Parkway and SR 82 proposed for residential and commercial development. The property spans multiple future land use categories and community planning areas. As a result, a text and map amendment to the Lee Plan and concurrent Mixed Use Planned Development are proposed to establish a uniform development pattern for the overall project.

Due to the proposed amendments within the Density Reduction/Groundwater Resource Future Land Use and Southeast Lee Community Planning Area an integrated surface and groundwater model has been developed to evaluate the current conditions of the property and proposed development. As detailed in the following report, the proposed development provides a hydrologic benefit to the region by providing a man-made conveyance connection between the Six Mile Cypress and Estero River Watersheds. This connection will restore the ability for surface water to flow similarly to historic flow patterns during high rainfall events, which is consistent with Policy 33.1.4 of the Lee County Comprehensive Plan. The historic flow pattern in this area was altered by the construction of a farm road during the agricultural operations on the property. The connection will be made via a proposed control structure and 24" conveyance pipe between the two watersheds.

Due to the proximity of the property to the Southwest Florida International Airport, large scale flow-way restoration is not proposed. Rather, the existing and extensive network of ditches and berms that partition the wetland systems on-site and a historic farm road which bisects the property are proposed to be removed. These Existing Conditions reduce hydrologic connectivity between the existing internal wetland systems. After removal of the berms, ditches and farm road, the areas will be re-graded to match the adjacent natural grade and planted with native vegetation.

The conclusions of the integrated model demonstrate that there is capacity for the project to convey stormwater during events that exceed the SFWMD 10-year 1-day storm event and in a direction that reflects historic flow patterns. Historic flow patterns would have allowed the surface flow to cross watershed basin divides during high rainfall events. The maximum discharge rate of the entire site will be reduced while maintaining historic flow patterns ensuring no adverse impacts to nearby properties. Additionally, the recharge conditions of the integrated model for the proposed project are greater than Existing Conditions by 94 acre-feet; enhancing water resources through increased groundwater recharge. Therefore, the project is consistent with Lee Plan Policy 1.4.5 and 33.1.7.

INTRODUCTION

Daniels South is a proposed 1,233-acre property located southeast of the intersection of Daniels Parkway and SR82 in Lee County, Florida. At full buildout, the project will consist of a residential community, multiple commercial properties, amenity areas and supporting infrastructure. The existing parcels are composed of existing agricultural lands. Approximately 679.10 acres will be preserved and/or restored to natural upland and wetland habitat. The property is bordered on the north by SR82 which is a defined as an upper end watershed boundary for both the Six Mile Cypress and Estero River watersheds. An existing farm road within the project defines the watershed divide between the two watersheds. The project is further bounded on the west by Daniels Parkway, the east by existing residential lots, and the south by Southwest Florida International Airport.

As a requirement of the concurrent Comprehensive Plan Amendment (CPA2021-00017 & 2021-00018) and Mixed Use Planned Development (DCI2022-00002) applications and to demonstrate consistency with Density Reduction Groundwater Resources Future Land Use, the project must be designed to provide a hydrologic model and report demonstrating interconnecting basins to re-establish historical hydraulic flow-ways. Per Policies 1.45 and 33.1.7 of the Lee Plan, the project must demonstrate potential impacts on surface and groundwater resources have been analyzed utilizing an integrated surface and groundwater model with site specific data. This integrated model has been prepared by Progressive Water Resources and is included as Appendix L of this report.

As part of the Comprehensive Plan Amendment (CPA2021-00017 & CPA2021-00018) a text amendment is proposed to offer a density incentive based upon regional benefits provided by the project's improvements. These additional benefits include a man-made hydraulic connection at the middle of the project's basin divide line between Six Mile Cypress and Estero River Basins. The connection is intended to partially restore flow patterns that were altered by the construction of a farm road used agricultural activities in the project area. The farm road was constructed along slightly higher land feature that divided the two watersheds and altered the elevations of the area from historic natural ground conditions. In natural ground conditions, surface water would have the ability to flow across the higher land feature thereby connecting the watersheds in higher rainfall events. This improvement will provide additional flow to the Estero Basin during high run off rainfall events by installing a control structure with a conveyance pipe that will allow surface water to flow across the watershed basin divide. The control structure is set at an elevation above the wet season water table to ensure that wetland surface elevations do not decrease from Existing Conditions in compliance with policy 126.1.4.

The detailed analysis for the proposed flow-path system considers this man-made hydraulic connection, which is discussed in the Daniels South Proposed Conditions Flow Path Analysis. To evaluate the proposed hydrologic and hydraulic condition of a flow path and the proposed design for those areas, the following model scenario analyses were conducted:

- **Existing Conditions Hydrologic/Hydraulic 1D Model:**

  The purpose of this model was to determine the existing surface water that discharges off the existing site to the current outfall locations (Six Mile Cypress & Estero River). The Existing

Conditions model was established using the Interconnected Channel and Pond Routing, Version 4.07.08, software and simulates the following design storms:

- 10-year, 1 day
- 25-year, 3-day
- 100-year, 3-day

- **Proposed Conditions Hydrologic/Hydraulic 1D Model:**

  The purpose of this model is to determine the effects of the proposed development to the existing parameters established in the existing model. The model will compare its results to the Existing Conditions model which include max discharge rates, max stages, and flow path conveyance from the Six Mile Cypress Basin to Estero River Basin. The Proposed Conditions model was established using the Interconnected Channel and Pond Routing, Version 4.07.08, software and simulates the following design storms:

  - 10-year, 1 day
  - 25-year, 3-day
  - 100-year, 3-day

MODELING SOFTWARE AND HYDRAULIC/HYDROLOGIC PARAMETERS

The software used to create the hydrologic and hydraulic models is Interconnected Channel and Pond Routing, Version 4.07.08, known as ICPR4. ICPR4 is a fully integrated 1D/2D surface and groundwater modeling platform. ICPR4 is widely used and accepted modeling platform throughout Florida for simulating hydrologic and hydraulic analyses. The ICPR4 platform is not limited with the number of model elements and is therefore well suited to utilize for a detailed model of the existing and proposed infrastructure systems within the Daniels South project boundaries.

Topographic Data

The first parameter to review is the topographic data available and used for the modeling application. The Existing Conditions model relied on both field surveying using GPS equipment and the latest LIDAR available from Lee County GIS. The elevations within the project boundaries range from 20.24 to 29.08 NGVD where the higher elevations occur on the north side of the project that runs adjacent to SR82 and the lower elevations occurring in the wetlands. Topographic data also indicates that the project area conforms with the watershed delineation for the project area and that the project does not receive discharge from the SR 82 which is the common upstream watershed boundary for the Estero River and Six Mile Cypress watersheds. The topographic data also shows an existing farm road bisecting the project area, which acts as a basin divide between the Estero River and Six Mile Cypress watersheds.

For the Proposed Conditions model, proposed grading for the basins was utilized along with the preliminary grading for the development ponds, including the internal lake excavation areas and detention areas within the development ponds.

Land Use/Land Cover Data

Currently, Daniels South's existing drainage basin is comprised mostly of agricultural fields and as well as forested wetland and indigenous areas which are included with the land use calculations and determination. Overall, the total Existing Conditions basin contains homogenous land use/land cover.

For the Proposed Conditions ICPR model, the land use/land cover data file was defined by the proposed land used based upon the Master Concept Plan for the Daniels South Mixed Use Planned Development Application. The land use/land cover categories include Residential, Commercial, Right-of-Way, Wetlands, Lakes, and Uplands. Although the commercial areas are included within the model, it should be noted that the commercial areas are proposed within the Intensive Development Future Land Use category, which does not require an integrated surface and groundwater model,

Runoff Curve Number

Another parameter specific to the basins is the run-off curve number, known as the CN. The curve number method is widely used and efficient for determining the approximate amount of runoff from a rainfall event within a particular area. The method used to calculate CN values for Daniels South was created by USDA. USDA's method was specifically designed for SFWMD, which establishes the depth of the water table vs soil storage curves for three different soil types found in South Florida: Sandy, Depressional and Flatwoods. The USDA method is preferred in Southwest Florida because it is a better representation due to the high-water table.

Daniel's South Existing and Proposed Conditions curve numbers can be found in Tables 1 & 2 below:

Table 1: Daniels South Existing Conditions Curve Numbers

DANIELS SOUTH EXISTING CONDITIONS CURVE NUMBERS		
BASIN NAME	SOIL STORAGE (INCHES)	CURVE NUMBER
WETLAND 1	1.24	88.93
WETLAND 2	0.19	98.18
WETLAND 3	0.06	99.38
WETLAND 4	0.04	99.56
WETLAND 5	0.15	98.50
WETLAND 6	0.14	98.64
WETLAND 7	0.07	99.28
DS NORTH	1.78	84.86
DS WEST	0.97	91.18
DS EAST	1.88	84.15

Table 2: Daniels South Proposed Conditions Curve Numbers

DANIELS SOUTH PROPOSED CONDITIONS CURVE NUMBERS		
BASIN NAME	SOIL STORAGE (INCHES)	CURVE NUMBER
BASIN C1	0.56	94.67
BASIN 1	0.83	92.32
BASIN 2	0.94	91.40
BASIN 3	0.95	91.36
BASIN 4	0.82	92.41
BASIN 5	0.90	91.70
BASIN 6	0.86	92.07
BASIN 7	0.91	91.66
BASIN 8	0.97	91.19
BASIN 9	0.82	92.42
BASIN 10	0.75	93.03
BASIN 11	1.08	90.23
BASIN 12	1.46	87.28
BASIN 13	0.77	92.83
BASIN 14	0.74	93.11
WETLAND 1	0.07	99.29
WETLAND 2	0.10	98.99
WETLAND 3	0.84	92.24
WETLAND 4	0.31	96.99
WETLAND 5	0.41	96.03
WETLAND 6	0.22	97.83
WETLAND 7	0.22	97.83
WETLAND 8	0.22	97.83
PRESERVE 1	1.26	88.83

In Table 1 of the Existing Conditions, soil storage of the existing wetlands was defined by first determining the area above the wet season water table (WSWT) within the Wetland Basin. This area was then defined with an average elevation which then was used to define the available soil storage per the USDA's Method. In Table 2 of the Proposed Conditions, since it is assumed, the soil will be compacted, soil storage has been reduced by 25% which is consistent with the methodology requested by SFWMD applicant's handbook.

Time of Concentration

Time of Concentration is another parameter needed to establish the stormwater characteristics of the Project. Time of Concentration is the time required for runoff to travel hydraulically from the most distant point in the watershed to the outlet. Time of concentration vary depending on land characteristics within the respective basin which includes, slope and character of the defined flow path. Time of concentration was established using the Kirpich Equation which studies the flow path length and slope. The Kirpich Equation is as follows:

$$T_c = \frac{0.0078L^{0.77}}{S^{0.385}}$$

Where:
Tc = Time of Concentration (minutes)
L = Length of Flow Path (feet)
S = Slope

Using the above equation Time of Concentration was established for both the Existing and Proposed Conditions and can be shown in Tables 3 & 4:

Table 3: Existing Conditions Time of Concentration

EXISTING TIME OF CONCENTRATION CALCULATION - KIRPICH EQ.						
BASIN	KIRPICH CONSTANT	LENGTH OF FLOW PATH	UPSTREAM ELEVATION	DOWNSTREAM ELEVATION	SLOPE	TIME OF CONCENTRATION
N/A	UNITLESS	(feet)	(feet)	(feet)	(ft/ft)	(minutes)
DS NORTH	0.0078	5,387	26.54	25.31	0.00023	147.00
DS WEST	0.0078	3,413	26.21	25.64	0.00017	116.87
DS EAST	0.0078	5,506	25.67	25.36	0.00006	257.81
WETLAND 1	0.0078	5,954	225.14	24.77	0.03365	23.22
WETLAND 2	0.0078	1,715	25.70	24.25	0.00085	36.74
WETLAND 3	0.0078	2,557	25.25	24.12	0.00044	64.16
WETLAND 4	0.0078	1,854	25.31	24.98	0.00018	70.73
WETLAND 5	0.0078	2,364	25.05	24.59	0.00019	83.22
WETLAND 6	0.0078	1,226	25.62	24.89	0.00059	32.57
WETLAND 7	0.0078	3,426	24.65	23.59	0.00031	92.39

Table 4: Proposed Conditions Time of Concentration

PROPOSED TIME OF CONCENTRATION CALCULATION - KIRPICH EQ.						
BASIN	KIRPICH CONSTANT	LENGTH OF FLOW PATH	UPSTREAM ELEVATION	DOWNSTREAM ELEVATION	SLOPE	TIME OF CONCENTRATION
N/A	UNITLESS	(feet)	(feet)	(feet)	(ft/ft)	(minutes)
WETLAND 1	0.0078	2,129	25.47	25.31	0.00007	111.37
WETLAND 2	0.0078	3,265	25.49	25.29	0.00006	165.86
WETLAND 3	0.0078	1,070	25.67	25.36	0.00029	38.87
WETLAND 4	0.0078	1,187	24.92	24.77	0.00013	57.44
WETLAND 5	0.0078	2,304	24.51	24.25	0.00011	100.38
WETLAND 6	0.0078	1,837	24.27	24.12	0.00008	94.87
WETLAND 7	0.0078	2,653	25.12	24.98	0.00005	147.70
WETLAND 8	0.0078	5,201	24.72	24.59	0.00002	335.20
PRESERVE 1	0.0078	2,593	25.00	24.89	0.00004	158.89

Rainfall Data and Design Storms

Precipitation depths for the 10-year 1 day, 25-year 3 day and 100-year 3-day storm events were obtained specifically for the subject watershed area using the South Florida Water Management Districts Applicants Handbook and applicable Isohyet Curves. The design storm rainfall amounts are shown in the following table:

Table 5: Rainfall Data for Design Storm Events

MODELED RAINFALL DEPTHS		
100y-3d Storm	14.00	inches
25y-3d Storm	11.00	inches
10y-1d	6.50	inches

DANIELS SOUTH EXISTING CONDITIONS MODELING ANALYSIS

As mentioned above, the Project is comprised of existing wetlands and agriculture fields. The various agriculture fields include dividing berms and irrigation ditches that both isolate wetland areas and direct runoff through the site. The Project's existing hydrology conveys stormwater from North to South with the North/South basin divide delineating the stormwater west or east to their respective basin, Six Mile Cypress and Estero River Watersheds.

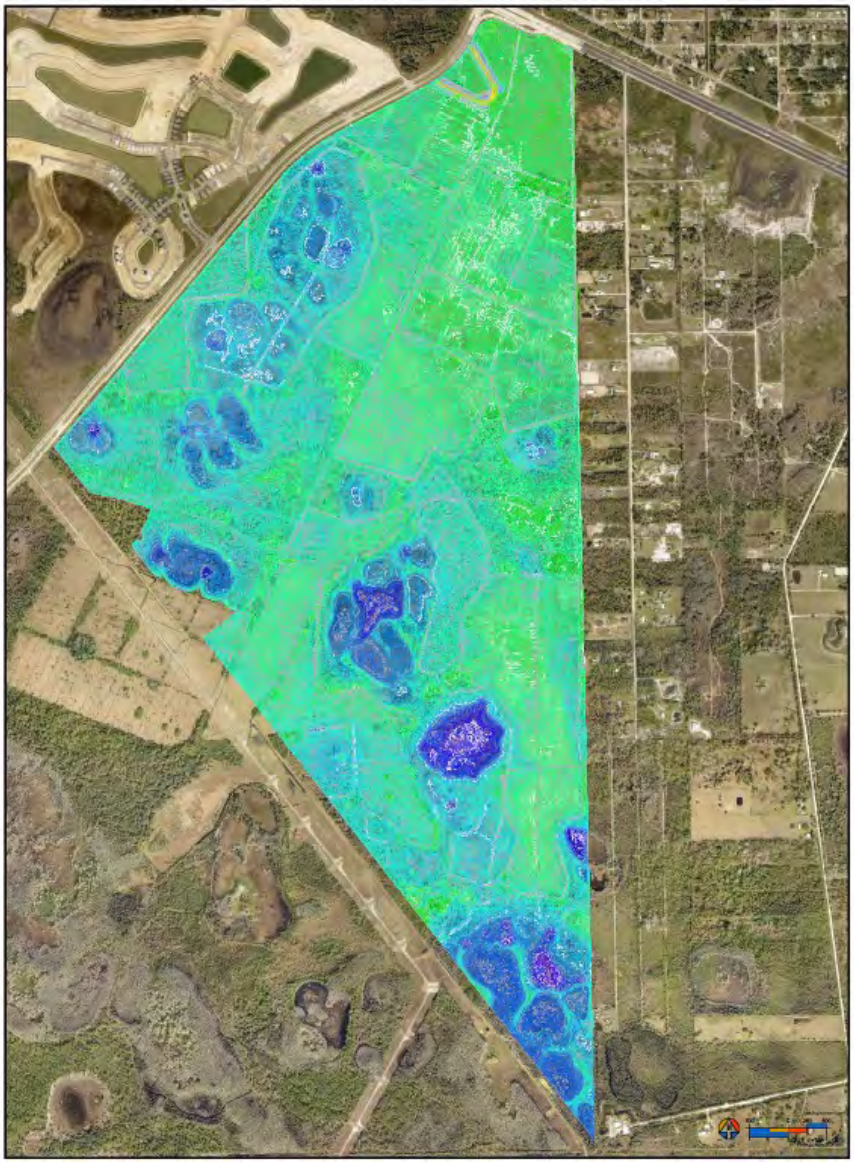
Using field data, LIDAR data, current aerial photographs, on-site observations and SFWMD permit files, the existing property was delineated into sub-basins. A total of 10 sub-basins were established via delineation.

Once the sub-basins were defined, hydrologic characteristics of each basin were defined and quantified, which included land use, curve numbers, time of concentration and surface storage capacity. All the listed items along with rainfall depths were used to establish a rainfall-runoff model for each basin using Interconnected Pond Routing (ICPR4) Software.

ICPR4 Modeling

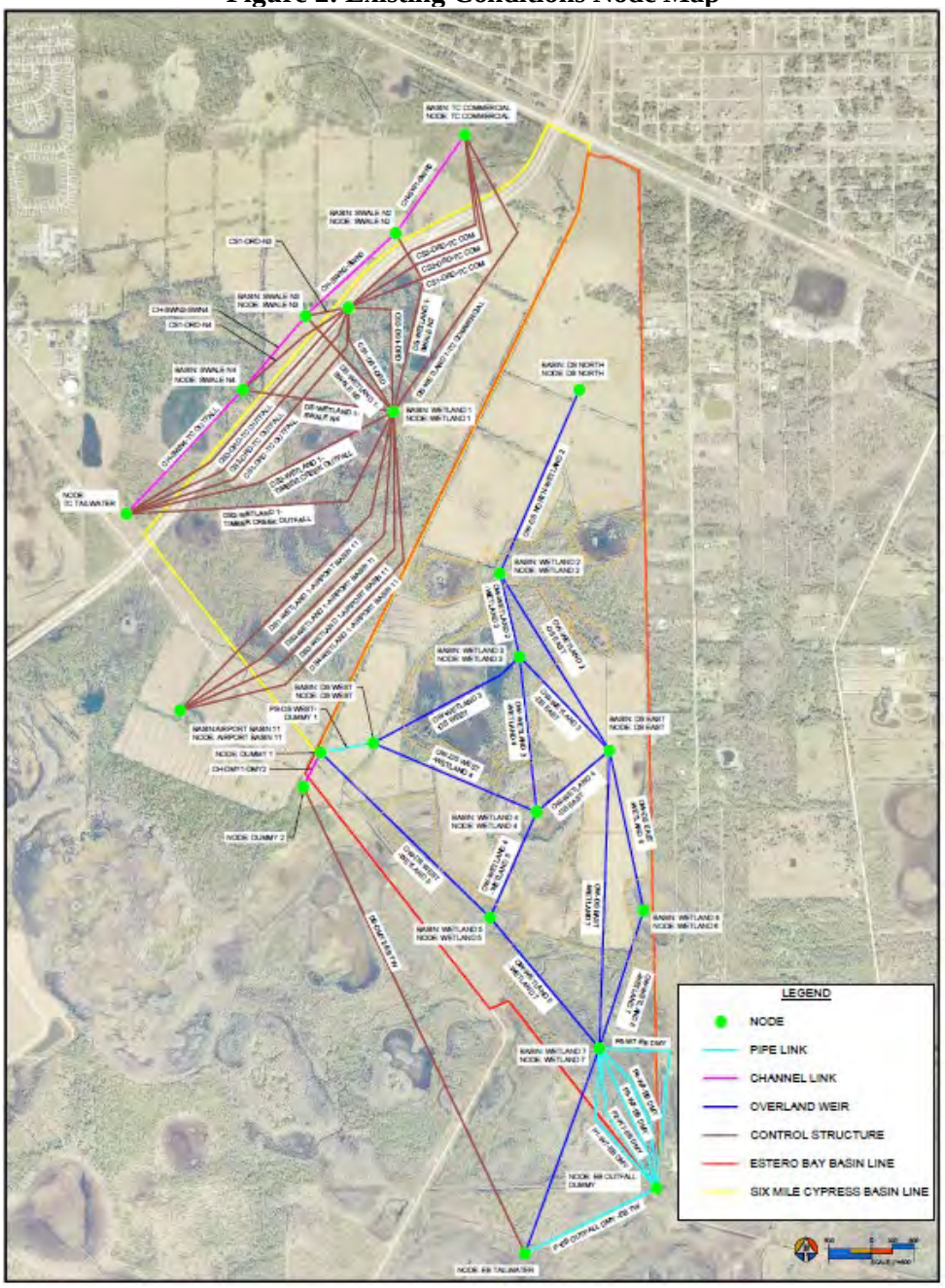
The ICPR4 software was utilized to perform the hydrologic analysis of Daniels South Existing Conditions drainage basin. The modeled rainfall events include the 10-year, 1-day, 25-year, 3-day and 100-year, 3-day. Each of the (10) basins were modeled as sperate nodes and were characterized by their determined properties: area, CN, and Time of Concentration. In review of the existing topographic data, it was determined that the sub-basins had areas of run-off storage at specific elevations. The stage-storage volumes were input into the basin characteristics of each of the nodes. Figure 1 provides a graphic of the digital elevation model (DEM) used for the Existing Conditions Analysis where blue colors represent areas below the WSWT, and greens represent areas above the WSWT:

Figure 1: Existing Conditions DEM Model (NAVD 88)



To further analyze the hydrologic conditions of the project, routings were incorporated into the ICPR4 model. Previous SFWMD files for the surrounding parcels along with field reconnaissance and current survey data was used to establish hydraulic networks between each of the sub-basins. Figure 2 below shows the Existing Conditions Node Map (also included in Appendix B):

Figure 2: Existing Conditions Node Map



Outfall Tailwater Conditions

The Existing Conditions model includes (12) offsite connection of which (2) connect to Estero River Watershed and the remaining (10) connect to Six Mile Cypress Watershed. The 2 connections to Estero River Watershed occur on the Southern property line with (1) just east of the basin divide line and the

other at the eastern most point of the property. The connections to Estero River Watershed include existing reinforced concrete pipes that convey stormwater to the offsite wetlands, where stormwater is ultimately conveyed to Estero River.

The Six Mile Cypress Watershed connections consist of existing reinforced concrete pipes and control structures currently in place. The conveyance structures discharge both to the western side of Daniels Parkway to improvements provided by Timber Creek and south to the Airport Basin. From these connection points, the stormwater ultimately discharges to Six Mile Cypress Watershed through a series of existing conveyance ditches and storm pipes.

The boundary nodes for each outfall were set as Time/Stage nodes. The boundary conditions for each Time/Stage node were defined by the Existing Conditions established in existing SFWMD permits for both the Estero River Watershed and the Six Mile Cypress Watershed. The features for the boundary nodes will remain the same in the post development conditions. As such, the defined Time/Stage node for the outfalls will remain consistent in the Proposed Conditions.

ICPR Modeling 1D Results

Based on the modeling results of the Existing Conditions of Daniels South, the peak discharge leaving the site for the 25-year, 3-day storm event was defined as 102.93 cfs. The maximum discharge rate equates to 44.66 cfs discharging to Estero River Watershed and 58.27 cfs discharging to Six Mile Cypress Watershed. Results are shown in Table 6:

Table 6: Existing Conditions Model Discharge Results

Watershed	Peak Discharge Rate (cfs)
Six Mile Cypress	58.27
Estero River	44.66
Total Peak Discharge	102.93

The actual peak discharge from the existing property may vary from the modeled results due to the nature of the available data for analysis. In additional, the capacity of the downstream conveyance systems must be a considered factor when evaluating and estimating the existing flows leaving the Project.

DANIELS SOUTH PROPOSED CONDITIONS FLOW PATH ANALYSIS

The surface water management system is designed based on the criteria of the South Florida Water Management District (SFWMD) Environmental Resource Permit (ERP) program and is consistent with the criteria of Part IV of Chapter 373 of the Florida Statutes. The proposed master drainage plan (Appendix A) consists of 14 lakes interconnected to each to other totaling 117 acres of surface area. The proposed lakes attenuate water quantity within the site and provide water quality treatment including reducing nutrient loading of the proposed development. The water quality treatment provide by the lakes will prevent the project from degrading surface water quality and reduce nutrient loading from Existing Conditions which meet the requirements of Policy 125.1.2 and Policy 125.1.3 of the Lee County Comprehensive Plan. The lake elevations have been designed to match or exceed the existing wet season

water elevations as determined by the consulting ecologist for the project, so as to not impact adjacent onsite wetland preserve areas. The water management system discharges in 5 locations into the onsite wetland preserve areas through weirs that control the maximum discharge rate from the developed areas.

The five lakes within the 10,000-foot airport wildlife buffer have been designed to incorporate hardened shorelines and 4:1 slopes without littoral plantings, to minimize wildlife attractive vegetation in those areas which benefits the Southwest Florida International Airport (SWFIA). These five lakes will discharge to lakes outside the 10,000-foot wildlife buffer to ensure that adequate water quality treatment is provided for all areas of the site prior to discharging to the onsite wetlands.

In addition to the water management system, an onsite flow path is proposed for the project area. The proposed flow-path creation plan consists of a piped connection to be located approximately in the middle of the project area currently defined as an existing farm road that divides the Six Mile Cypress watershed from the Estero River watershed. The 24" pipe connection is intended to reestablish a historic flow path that interconnects the two watersheds as identified Lee County's Comprehensive Plan, connecting the two watersheds.

The proposed man-made flow-path connection will allow flow to occur from Six Mile Cypress Watershed to Estero River Watershed in storm events that exceed the 10-year, 1-day storm event. The proposed flow-path connection will allow (restore) stormwater flows from the Six Mile Cypress watershed into the Estero River Watershed during high rainfall events.

The initial step of the analysis involved designing sub-basins within each of the watersheds and identifying where a connection point could occur based on the varying WSWT elevations within each of the Wetlands. The sub-basins that were identified for connection are from "Wetland 2" (See Appendix G Proposed Node Map for node locations) in the Six Mile Cypress Watershed to "Wetland 5" in the Estero River Watershed in the Proposed Conditions. Wetland 2 has a control elevation of 25.50' while Wetland 5 has a control elevation of 25.32'.

The proposed connection of the man-made flow-path will consist of a control structure weir set at elevation 25.80' on the Six Mile Cypress Watershed side. The proposed connection will be a closed system (i.e. piped), consistent with the request of the SWFIA/Port Authority. The control structure will discharge via a 24" buried pipe to Wetland 5 which is on the Estero River watershed side of the project. This proposed buried pipe will not create habitat that could attract wildlife and be aesthetic in character. The control structure elevation is set above the WSWT so as to not draw down the wetland areas and to prevent surface water from discharging into the Six Mile Cypress basin in low volume rain events. In high rain fall events, the Six Mile Cypress Basin water elevation stages to an elevation slightly higher than the Estero Basin water elevation which is when flow will start occurring into the Estero River Basin. The control structure elevation of 25.80', was determined as the defined elevation of the 10-year, 1 day storm event for the proposed project in Wetland 2.

Per the above provided information, the proposed flow-path connection discharges when storm events exceed the 10-year, 1 day storm event of elevation of 25.80'. ICPR4 routings of the 25-year, 3-day storm event define a discharge rate of 3.48 cfs of peak flow discharged from the 24" conveyance pipe.

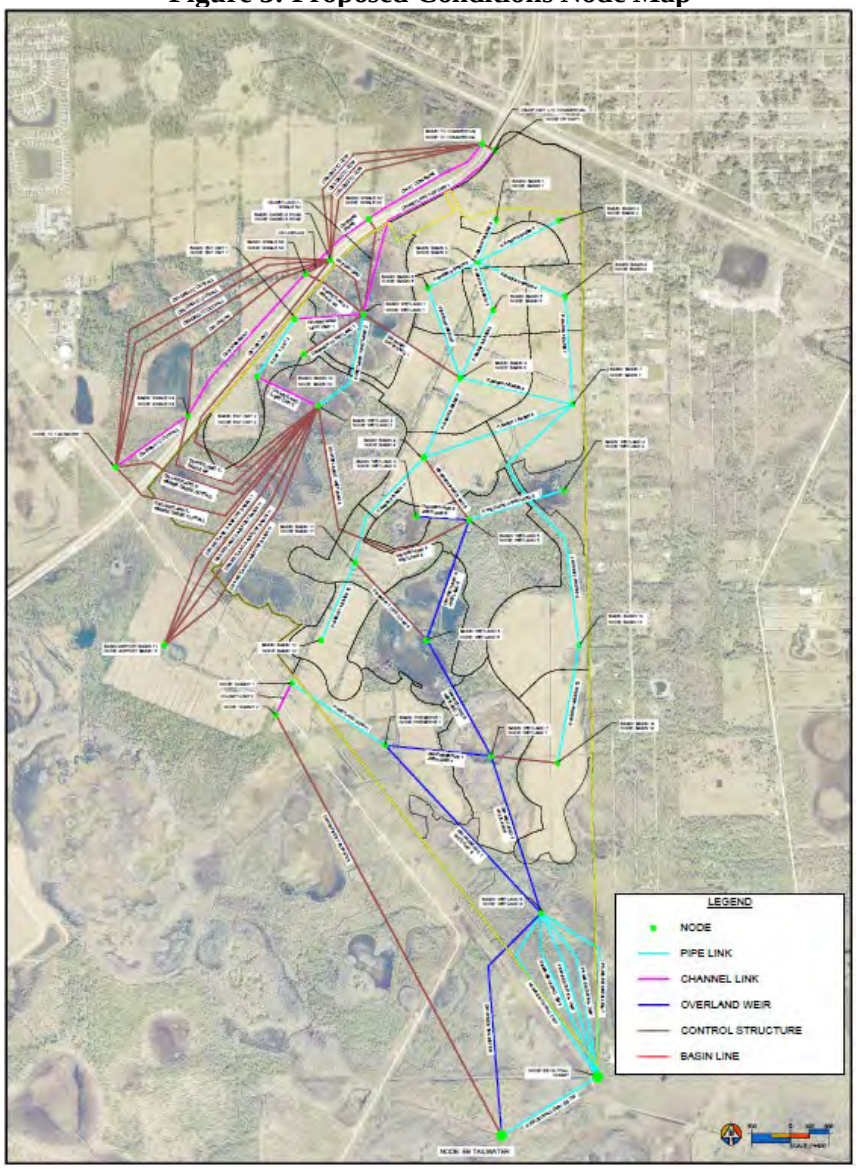
DANIELS SOUTH PROPOSED CONDITIONS MODELING ANALYSIS

ICPR4 software was used to perform hydrologic and hydraulic analysis of the Daniels South Proposed Conditions for the various basins. The modeled rainfall events include the 10-year 1-day, 25-year 3-day, and 100-year, 3-day storm events. Water elevation stages were evaluated for all the above storm events, as well as the peak flow discharge rates of the 25-year, 3-day storm event, which is the criteria of the South Florida Water Management District.

To determine Stage/Storage relationships in each of the defined basins, the environmental professional involved with the project provided wetland elevation data to ensure the proposed project's storage is starting at or above a water elevation consistent with the adjacent wetlands. The onsite portion of the project discharges via 5 discharge points to the various offsite wetlands. Two locations will discharge to the Six Mile Cypress Watershed and three locations discharge to the Estero River Watershed. Various ponds on site within their respective sub-basins will be interconnected by reinforced concrete pipes. Due to the design the lakes within 10,000 Foot airport wildlife buffer, not having littoral plantings, the southern 2 control structures that discharge to Estero River will not begin to discharge to the offsite wetlands until water quality requirements for the project are met in the other lakes of the system.

A Proposed conditions Node Map of Daniels South is shown in Figure 3 (Also included in Appendix G) to better displays the above information:

Figure 3: Proposed Conditions Node Map



As shown in Figure 3, the proposed system incorporates, reinforced concrete pipe, control structures, channels and overland weirs to accurately define the proposed hydrologic and hydraulic conditions.

ICPR Modeling 1D Results

Based on the modeling results of the Proposed Conditions of Daniels South, the peak discharge leaving the site for the 25-year, 3-day storm event was defined as 66.75 cfs. The maximum discharge rate equates to 28.32 cfs discharging to Estero River Watershed and 32.64 cfs discharging to Six Mile Cypress Watershed. Results are shown in the following table:

Table 7: Proposed Conditions Model Discharge Results

Watershed	Peak Discharge Rate (cfs)
Six Mile Cypress	30.65
Estero River	28.59
Total Peak Discharge	**64.96**

The discharge rates in the above table include the wetlands that will remain outside of the proposed developments stormwater management system. Additionally, stages were defined as part of the ICPR4 modeling effort, and the results can be shown in the following table:

Table 8: Proposed Conditions Model Stages

Critical Storm Event Stages		
10 YEAR 1-DAY STORM EVENT		
Basin Name	**Peak Stage (ft. NAVD)**	**Comment**
BASIN 1-9	27.14	MIN. ROAD CROWN 27.14'
BASIN 10	27.65	MIN. ROAD CROWN 27.65'
BASIN 11-12	26.97	MIN. ROAD CROWN 26.97'
BASIN 13-14	27.56	MIN. ROAD CROWN 27.56'
25 YEAR 3-DAY STORM EVENT		
Basin Name	**Peak Stage (ft. NAVD)**	**Comment**
BASIN 1-9	27.79	MIN. BERM ELEV. 27.79'
BASIN 10	28.07	MIN. BERM ELEV. 28.07'
BASIN 11-12	27.67	MIN. BERM ELEV. 27.67'
BASIN 13-14	27.93	MIN. BERM ELEV. 27.93'
100 YEAR 3-DAY STORM EVENT		
Basin Name	**Peak Stage (ft. NAVD)**	**Comment**
BASIN 1-9	28.38	MIN. FF ELEV. 28.38'
BASIN 10	28.67	MIN. FF ELEV. 28.67'
BASIN 11-12	28.38	MIN. FF ELEV. 28.38'
BASIN 13-14	28.45	MIN. FF ELEV. 28.45'

As shown in Table 8, the Proposed Conditions of the onsite development remain consistent with similar projects within the respective Basins the site discharges to. The required elevations shown in Table 8 are consistent with the requirements set forth by South Florida Water Management District and Lee County Land Development Code. The Proposed Project is located within FEMA Flood Zone X; therefore, no minimum elevation is required for the Finish Floors of the future proposed buildings.

EXISTING / PROPOSED CONDITION RESULTS COMPARISON

As indicated previously, the project area is located at the upper end of both the Six Mile Cypress and Estero River watersheds and does not receive flows from upstream properties. As such the proposed project will not cause flooding or other negative impacts to upstream areas consistent with Policies 1.4.5 and 33.1.7.

To evaluate downstream potential impacts, a peak discharge comparison for the Existing Conditions and Proposed Conditions is shown in Table 9 below. The comparison shows that the proposed project will attenuate the 25-year 3-day rainfall event within the proposed onsite water management system and reduce the peak runoff discharge rate from the project limits. By reducing the peak runoff rate, downstream properties from the project will receive flow from the project limits at a slower rate, thereby decreasing the potential of flood conditions and demonstrating consistency with Policies 1.4.5 and 33.1.7

Table 9: Peak Flow Model Discharge Comparison

Watershed	Existing Project Limits - Peak Discharge Rate (cfs)	Proposed Project Limits - Peak Discharge Rate (cfs)
Six Mile Cypress	58.27	30.65
Estero River	44.66	28.59
Total Peak Discharge	**102.93**	**64.96**

To further demonstrate the proposed project will not increase the potential of flood conditions downstream of the project, a comparison of the 25 year- 3-day peak stage elevations on locations of wetlands area at the south end of the project limits is presented in Table 10 below. The elevations show that stages will not increase in the post development condition and that peak stages in wetland areas near the site discharge location on the site will not increase prior to discharging off site which meets policy 126.1.4.

Table 10: Peak Stage Comparison

Node**	Existing Project Limits Stage Elev (NAVD)	Proposed Project Limits -Stage Elev (NAVD)
Existing Conditions Wetland 7 / Proposed Conditions Wetland 8	25.92	25.92

*** Note - wetland areas were relabeled in the model from the Existing Conditions and Proposed Conditions due to Proposed Conditions design creating wetland subbasins. The descriptions in the Table 10 represent the same location on the site.*

DANIELS SOUTH ICPR 2D INTEGRATED SURFACE AND GROUNDWATER MODEL

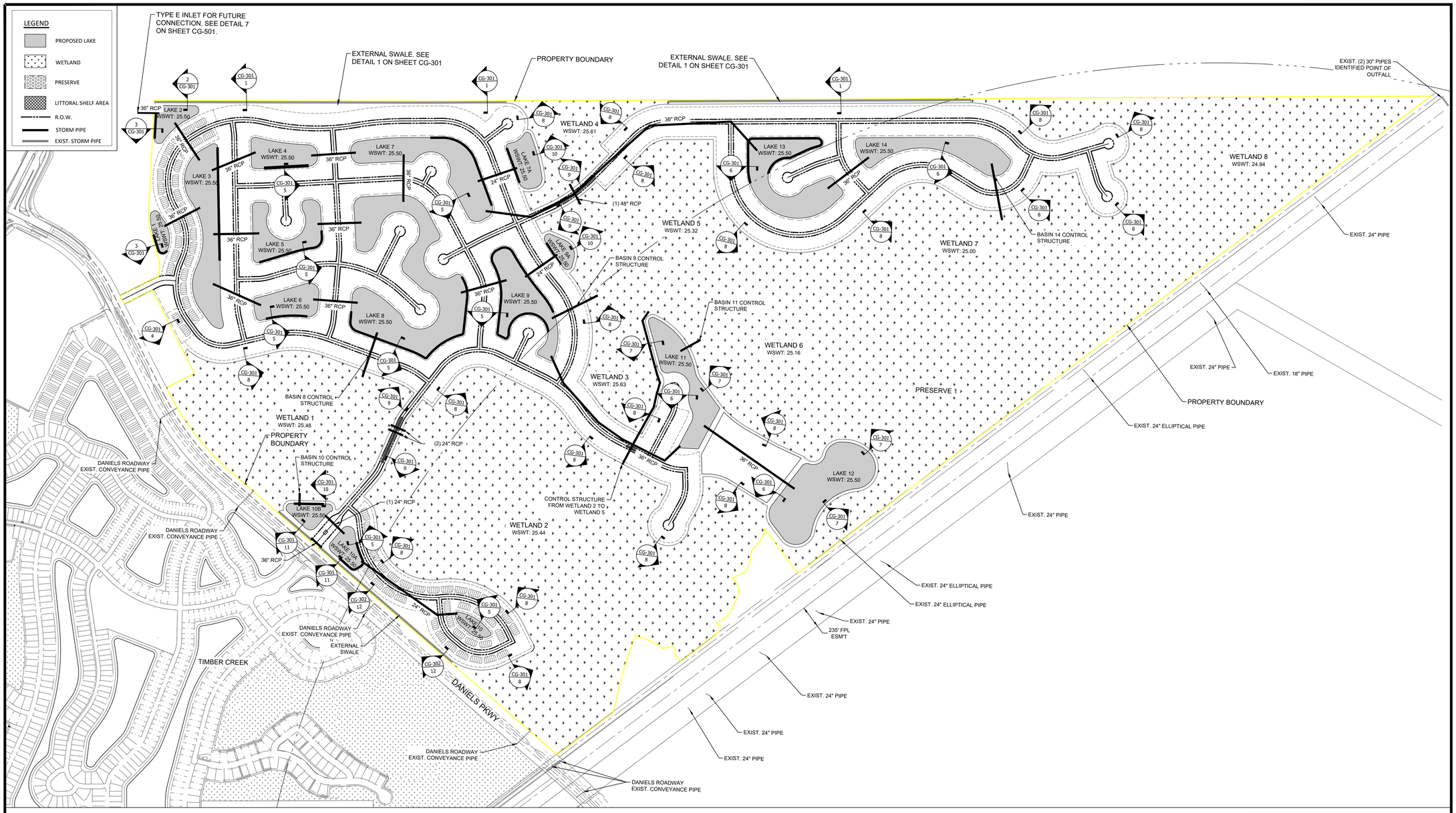
2D modeling was also completed for Daniels South utilizing ICPR4 software. ICPR4 utilized the Green Ampt analysis for the 25-year, 3-day rainfall event to analyze recharge volume in the Proposed Conditions. Per the modeling results, the Proposed Conditions groundwater recharge volume is greater than what occurs presently, given the property's Existing Conditions. The Existing Conditions simulates approximately 1,403 acre-ft over a duration of 360 hours, while the Proposed Conditions simulate 1,497 acre-ft, a net increase of 94 acre-ft. The above results indicate that the proposed project will enhance water resources by providing a net benefit in groundwater recharge. The above results are more thoroughly discussed in Progressive Water Resources Integrated Model Analysis dated May 20, 2022, that has been included as Appendix L. Please refer to Appendix L for the complete report.

SUMMARY

Based on the above hydrologic and hydraulic analysis of both the Existing Conditions and the Proposed Conditions of Daniels South, there is opportunity for the project to provide a hydrologic benefit to the region by providing conveyance connection between the Six Mile Cypress and Estero River Watersheds, allowing for additional surface water to be conveyed into the Estero River Watershed. The additional surface water to this area is consistent with Policy 33.1.4. The provided analysis shows the potential for the project to convey stormwater to the Estero River Watershed in storm events that exceed the SFWMD 10-year 1-day storm event. Additionally, the proposed project reduces the peak discharge rate of the entire site, including wetlands, while improving historic drainage patterns. The reduction in peak discharge rates show that the proposed surface water management system delays the release of surface water from the project site thereby reducing the potential of flooding to properties downstream. Consistent with Policy 1.4.5 and Policy 126.1.4, the modeling results demonstrate that the proposed system is will not adversely impact upstream or downstream surrounding properties with the approval and construction of Daniels South.

APPENDICES

APPENDIX 1- MASTER GRADING PLAN



DANIELS SOUTH CRITICAL STORM EVENT STAGES

STORM ELEVATION	PEAK STAGE (NAVD)		COMMENT
	BASINS 1-9 & 11-14	BASIN 10	
100 YEAR 3 DAY	28.44	28.67	Min. Finish Floor at 29.1'
25 YEAR 3 DAY (2ND RUN)	27.96	28.08	Set Perimeter Berm at 28.2'
5 YEAR 1 DAY	27.31	27.53	Set Min. Road Crown at 27.6'

PROPOSED PROJECT LANDUSE
TOTAL PROPOSED AREA

DESCRIPTION	AC	%
TOTAL AREA	500.50	100%
BUILDING GROUND FLOOR AREA	153.27	31%
PAVEMENT AREA	57.47	11%
SIDEWALK/OTHER IMPERVIOUS	57.47	11%
PERVIOUS ACREGE	114.95	23%
WET DETENTION POND	117.34	23%
TOTAL IMPERVIOUS AREA	268.22	54%
TOTAL PERVIOUS AREA	114.95	23%
TOTAL POND	117.34	23%
ADDITONAL OFFSITE PAVEMENT AREA	0.92	
ADDITONAL OFFSITE SIDEWALK AREA	1.47	

PROPOSED PROJECT LANDUSE
TOTAL SIX MILE CYPRESS BASIN AREA

DESCRIPTION	AC	%
TOTAL AREA	130.49	100%
BUILDING GROUND FLOOR AREA	42.33	32%
PAVEMENT AREA	15.87	12%
SIDEWALK/OTHER IMPERVIOUS	15.67	12%
PERVIOUS ACREGE	31.74	24%
WET DETENTION POND	24.68	19%
TOTAL IMPERVIOUS AREA	74.07	57%
TOTAL PERVIOUS AREA	31.74	24%
TOTAL POND	24.68	19%

PROPOSED PROJECT LANDUSE
TOTAL ESTERO BAY BASIN AREA

DESCRIPTION	AC	%
TOTAL AREA	370.01	100%
BUILDING GROUND FLOOR AREA	110.94	30%
PAVEMENT AREA	41.60	11%
SIDEWALK/OTHER IMPERVIOUS	41.60	11%
PERVIOUS ACREGE	83.21	22%
WET DETENTION POND	92.66	25%
TOTAL IMPERVIOUS AREA	194.15	52%
TOTAL PERVIOUS AREA	83.21	22%
TOTAL POND	92.66	25%

NOTE:

1) PROPOSED PROJECT IS LOCATED WITHIN ESTERO BAY AND SIX MILE CYPRESS BASINS.
2) PER NOTE 1, THE PROJECT HAS AN ALLOWABLE DISCHARGE RATE OF 37 CSM FOR SIX MILE CYPRESS BASIN AND 42 CSM FOR ESTERO BAY BASIN.
3) PER NOTE 1 & 2, THE PROJECT HAS AN ALLOWABLE DISCHARGE RATE OF 7.54 CFS FOR SIX MILE CYPRESS BASIN AND 24.28 CFS FOR ESTERO BAY BASIN
4) WATER QUALITY VOLUME TO BE TREATED IN BASINS 1-10 ONLY.
5) WET SEASON WATER TABLE FOR THE PROJECT HAS BEEN DEFINED AS 25.50 NAVD.
6) PONDS EXCAVATED BEYOND THE "ANOXIC ZONE DEPTH", AS CALCULATED IN THE PERMITTED "POLLUTANT LOADING CALCULATIONS", SHALL BE SUPPLIED WITH AERATOR BASED PUMPS SIZED TO ACHIEVE A POND TURNOVER RATE OF AT LEAST 1.5 TIMES PER DAY.
7) TEMPORARY IMPACTS ASSOCIATED WITH INSTALLATION OF WATER CONTROL STRUCTURES WILL BE RESTORED AND REPLANTED ACCORDING TO THE MITIGATION/MONITORING/MAINTENANCE PLAN PREPARED BY PASSARELLA & ASSOCIATES, INC. DATED FEBRUARY 2017.

PROJECT:

DANIELS PARKWAY SOUTH

LOCATION:

13400 DANIELS PKWY.
FORT MYERS, FL. 33913

CLIENT:

LENNAR

CONSULTANT:

MORRIS DEPEW
ENGINEERS • PLANNERS • SURVEYORS
LANDSCAPE ARCHITECTS
FL CA NO. 6532 / FL CERT NO. LB6891 / LC26000330

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Toll free: 866-337-7341

PREPARED BY:

RYAN M. SHUTE
FL PE# 54597

DRAWING IS NOT VALID WITHOUT AN ORIGINAL SEAL AND SIGNATURE BY THE ENGINEER OF RECORD

REVISIONS	DATE

PROJECT MANAGER:	PMT
DRAWING BY:	ESS
JURISDICTION:	LEE COUNTY
DATE:	5/20/2022

SHEET TITLE:

MASTER DRAINAGE PLAN

SHEET NUMBER: CG-100

SCALE 1"=500'

JOB/FILE NUMBER: 21008-02

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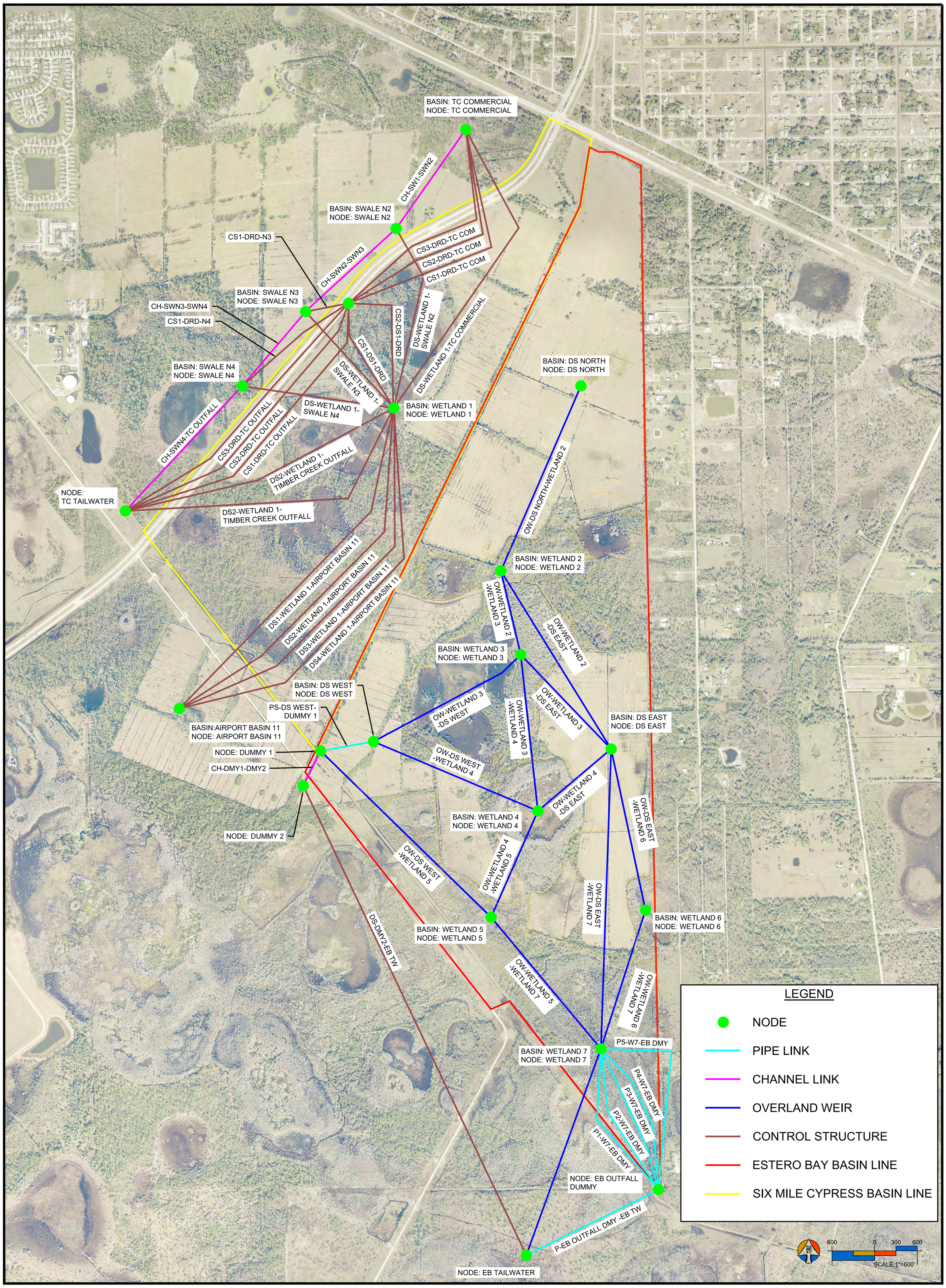
APPENDIX B- EXISTING CONDITIONS NODE MAP



2/10/2022 G:\21008 - Daniels Parkway South\Plans\21008-02 Conceptual Drainage Plans\Current Plans\21008-02 Existing Conditions Node Map.dwg

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PROJECT:

DANIELS SOUTH

ADDRESS:

DANIELS PARKWAY,
LEE COUNTY

CONSULTANT:

MORRIS DEPEW

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Toll free: 866-337-7341

CLIENT:

LENNAR

SHEET TITLE:

EXISTING CONDITIONS BASIN MAP

REVISIONS	DATE
JOB/FILE NUMBER:	14012-12
PROJECT MANAGER:	RMS
DRAWING BY:	ESS
JURISDICTION:	LEE COUNTY
DATE:	2/10/2022
SHEET NUMBER:	----

APPENDIX C- EXISITNG CONDITIONS INPUT REPORT

Simulation: 100Y3D

Scenario: Icpr3
Run Date/Time: N/A
Program Version: N/A

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:

Lookup Tables

Boundary Stage Set: 25yr
Extern Hydrograph Set:

Unit Hydrograph Folder:	ICPR3	Curve Number Set:	ICPR3
		Green-Ampt Set:	ICPR3
		Vertical Layers Set:	
		Impervious Set:	ICPR3
		Roughness Set:	
		Crop Coef Set:	
		Fillable Porosity Set:	
		Conductivity Set:	
		Leakage Set:	

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Region Specification
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	Sfwmd72
		Rainfall Amount:	13.90 in
Edge Length Option:	Automatic	Storm Duration:	72.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	1 ft2	Min Node Srf Area (1D):	113 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: 10Y1D

Scenario:	Icpr3
Run Date/Time:	3/24/2022 1:19:01 PM
Program Version:	ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000

Max Calculation Time: 60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:
Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 10yr
Extern Hydrograph Set:
Curve Number Set: ICPR3
Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
IA Recovery Time: 24.0000 hr
ET for Manual Basins: False

dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Region Specification
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	Flmod
		Rainfall Amount:	6.50 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	1 ft2	Min Node Srf Area (1D):	113 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: 2.33Y1D

Scenario: Icpr3
Run Date/Time: 3/24/2022 1:19:43 PM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	312.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:
Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 2.33yr
Extern Hydrograph Set:
Curve Number Set: ICPR3
Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft
Edge Length Option: Automatic
Dflt Damping (2D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2
Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
ET for Manual Basins: False
Smp/Man Basin Rain Opt: Global
OF Region Rain Opt: Region Specification
Rainfall Name: Flmod
Rainfall Amount: 4.50 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 113 ft2
Energy Switch (1D): Energy

Comment:

Simulation: 25Y3D

Scenario: Icpr3
Run Date/Time: 3/24/2022 1:28:48 PM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	362.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.0001	900.0000
Max Calculation Time:		20.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:

Lookup Tables

Boundary Stage Set: 25yr
Extern Hydrograph Set:

Unit Hydrograph Folder:	ICPR3	Curve Number Set:	ICPR3
		Green-Ampt Set:	ICPR3
		Vertical Layers Set:	
		Impervious Set:	ICPR3
		Roughness Set:	
		Crop Coef Set:	
		Fillable Porosity Set:	
		Conductivity Set:	
		Leakage Set:	

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0001 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	0.0100 ft	OF Region Rain Opt:	Region Specification
Link Optimizer Tol:	0.0000 ft	Rainfall Name:	Sfwmd72
		Rainfall Amount:	10.60 in
Edge Length Option:	Automatic	Storm Duration:	72.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	1 ft2	Min Node Srf Area (1D):	113 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: 5Y1D

Scenario:	Icpr3
Run Date/Time:	3/24/2022 1:44:48 PM
Program Version:	ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	312.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000

Max Calculation Time: 60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:
Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 5yr
Extern Hydrograph Set:
Curve Number Set: ICPR3
Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
IA Recovery Time: 24.0000 hr
ET for Manual Basins: False

dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Region Specification
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	Flmod
		Rainfall Amount:	5.50 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	1 ft2	Min Node Srf Area (1D):	113 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Manual Basin: AirportBasin11

Scenario: Icpr3
Node: AirportBasin11
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 43.1000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh256
Peaking Factor: 256.0
Area: 213.6318 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
213.6318	AirportBasin11	AirportBasin11			

Comment: OUTFALL TO AIRPORT

Manual Basin: DS EAST

Scenario: Icpr3
Node: DS EAST
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 257.8100 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 170.6600 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
170.6600	DS EAST	DS EAST			

Comment:

Manual Basin: DS NORTH

Scenario: Icpr3
Node: DS NORTH
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 147.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 225.9300 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
225.9300	DS NORTH	DS NORTH			

Comment:

Manual Basin: DS WEST

Scenario: Icpr3
Node: DS WEST
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 116.8700 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 115.8700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
115.8700	DS WEST	DS WEST			

Comment:

Manual Basin: SWALE N2

Scenario: Icpr3

Node: Swale N2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh256
Peaking Factor: 256.0
Area: 0.9200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.9200	SWALE N2	SWALE N2			

Comment:

Manual Basin: SWALE N3

Scenario: Icpr3
Node: Swale N3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh256
Peaking Factor: 256.0
Area: 1.2200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
1.2200	SWALE N3	SWALE N3			

Comment:

Manual Basin: SWALE N4

Scenario: Icpr3
Node: Swale N4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh256
Peaking Factor: 256.0
Area: 0.0500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.0500	SWALE N4	SWALE N4			

Comment:

Manual Basin: TC COMMERCIAL

Scenario: Icpr3
Node: TC COMMERCIAL
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 24.9800 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh484
Peaking Factor: 484.0
Area: 39.7700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
39.7700	OFFSITE 1	OFFSITE 1			

Comment:

Manual Basin: WETLAND 1

Scenario: Icpr3
Node: WETLAND 1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 23.2200 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 420.0100 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
420.0100	WETLAND 1	WETLAND 1			

Comment:

Manual Basin: WETLAND 2

Scenario: Icpr3

Node: WETLAND 2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 36.7400 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 52.9900 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
52.9900	WETLAND 2	WETLAND 2			

Comment:

Manual Basin: WETLAND 3

Scenario: Icpr3
Node: WETLAND 3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 64.1600 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 84.4200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
84.4200	WETLAND 3	WETLAND 3			

Comment:

Manual Basin: WETLAND 4

Scenario: Icpr3
Node: WETLAND 4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 70.7300 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 45.4900 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
45.4900	WETLAND 4	WETLAND 4			

Comment:

Manual Basin: WETLAND 5

Scenario: Icpr3
Node: WETLAND 5
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 83.2200 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 28.8800 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
28.8800	WETLAND 5	WETLAND 5			

Comment:

Manual Basin: WETLAND 6

Scenario: Icpr3
Node: WETLAND 6
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 32.5700 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 8.6400 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
8.6400	WETLAND 6	WETLAND 6			

Comment:

Manual Basin: WETLAND 7

Scenario: Icpr3

Node: WETLAND 7
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 92.3900 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 80.1900 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
80.1900	WETLAND 7	WETLAND 7			

Comment:

Node: AirportBasin11

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	30.0000	25.05
0	0	0	40.0000	25.18
0	0	0	60.0000	25.60
0	0	0	64.0000	26.00
0	0	0	80.0000	26.06
0	0	0	100.0000	26.00
0	0	0	240.0000	25.53
0	0	0	360.0000	25.33
0	0	0	999.0000	25.00

Comment:

Node: DS EAST

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.40 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.13	0.0000	0
21.38	0.0001	6
21.63	0.0004	18
21.88	0.0007	32
22.13	0.0012	52
22.38	0.0024	106
22.63	0.0043	188
22.88	0.0079	343
23.13	0.0218	949
23.38	0.0821	3578
23.63	0.2640	11501
23.88	0.6910	30101
24.13	1.9888	86633
24.38	6.2897	273979
24.63	13.0082	566639
24.88	20.4318	890009
25.13	29.6146	1290013
25.38	45.3727	1976435
25.40	48.3614	2106623
25.40	48.3614	2106623
25.63	75.2599	3278323
25.88	121.7808	5304770
26.13	145.9957	6359572
26.38	153.4642	6684900
26.63	156.8145	6830839
26.88	158.5746	6907510
27.13	159.2546	6937129
27.38	159.4337	6944931
27.63	159.4843	6947135
27.88	159.4924	6947489
28.13	159.4941	6947564
28.38	159.4955	6947623
28.63	159.4964	6947662
28.88	159.4968	6947679
29.13	159.4968	6947681

Comment:

Node: DS NORTH

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.60 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.38	0.0002	7
23.63	0.0039	172
23.88	0.0411	1792
24.13	0.1896	8259
24.38	0.5603	24408
24.63	1.2853	55986
24.88	2.6286	114502
25.13	5.6135	244525
25.38	17.8126	775915
25.60	25.1146	1093990
25.60	25.1149	1094004
25.63	58.3810	2543074
25.88	124.9387	5442328
26.13	173.2882	7548432
26.38	202.8519	8836231
26.63	219.3068	9553006
26.88	222.6844	9700132
27.13	224.2488	9768276
27.38	225.1259	9806483
27.63	225.5733	9825974
27.88	225.7749	9834753
28.13	225.8634	9838611
28.38	225.8921	9839860
28.63	225.9034	9840350
28.88	225.9045	9840400

Comment:

Node: DS WEST

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
22.63	0.0000	0
22.88	0.0043	189
23.13	0.0226	985
23.38	0.0701	3055
23.63	0.1940	8451
23.88	0.4663	20312
24.13	1.0300	44867
24.38	2.2141	96446
24.63	5.4236	236253
24.88	14.4389	628958

Stage [ft]	Area [ac]	Area [ft2]
25.13	33.6640	1466402
25.38	63.7292	2776042
25.50	66.9055	2914402
25.50	66.9055	2914403
25.63	95.4924	4159650
25.88	108.2620	4715891
26.13	111.3921	4852241
26.38	113.1890	4930514
26.63	114.2787	4977978
26.88	114.9391	5006749
27.13	115.3304	5023791
27.38	115.5602	5033803
27.63	115.6903	5039468
27.88	115.7700	5042942
28.13	115.8109	5044725
28.38	115.8228	5045243
28.63	115.8290	5045511
28.88	115.8340	5045730
29.13	115.8384	5045921
29.38	115.8425	5046100
29.63	115.8464	5046267
29.88	115.8499	5046423
30.13	115.8533	5046568
30.38	115.8563	5046701
30.63	115.8585	5046797
30.88	115.8607	5046893
31.13	115.8626	5046975
31.38	115.8641	5047042
31.63	115.8655	5047101
31.88	115.8667	5047152
32.13	115.8673	5047179
32.38	115.8674	5047184

Comment:

Node: DUMMY 1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: DUMMY 2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: Daniels Road

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 9999.00 ft
Warning Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	9999.00
0	0	0	99999.0000	9999.00

Comment: This is a dummy node used to connect a time vs flow rate curve to nodes internal to the development represnting inflows from the equalizer pipes under daniels parkway.

Node: EB OUTFALL DUMMY

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: EB TAILWATER

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 0.00 ft
Boundary Stage: Outfall

Comment:

Node: Swale N2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: Swale N3

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: Swale N4

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft

Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: TC COMMERCIAL

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
20.30	0.00	0
20.40	0.00	2
20.50	0.00	31
20.60	0.00	115
20.70	0.01	269
20.80	0.01	499
20.90	0.02	835
21.00	0.03	1296
21.10	0.04	1880
21.20	0.06	2582
21.30	0.08	3412
21.40	0.10	4386
21.50	0.13	5535
21.60	0.16	6877
21.70	0.19	8411
21.80	0.23	10146
21.90	0.28	12120
22.00	0.33	14363
22.10	0.39	16888
22.20	0.45	19730
22.30	0.53	22951
22.40	0.61	26588
22.50	0.70	30663
22.60	0.81	35198
22.70	0.92	40276
22.80	1.06	46055
22.90	1.21	52655
23.00	1.38	60315
23.10	1.59	69163
23.20	1.82	79169
23.30	2.07	90340

Stage [ft]	Volume [ac-ft]	Volume [ft3]
23.40	2.36	102736
23.50	2.67	116313
23.60	3.01	131014
23.70	3.37	146832
23.80	3.76	163787
23.90	4.18	181930
24.00	4.62	201361
24.10	5.10	222199
24.20	5.61	244413
24.30	6.16	268309
24.40	6.76	294503
24.50	7.42	323168
24.60	8.15	355110
24.70	9.01	392328
24.80	9.99	435150
24.90	11.12	484221
25.00	12.40	540003
25.10	13.86	603646
25.20	15.53	676604
25.30	17.44	759877
25.40	19.62	854767
25.50	22.08	961713
25.60	24.78	1079351
25.70	27.67	1205304
25.80	30.73	1338568
25.90	33.97	1479666
26.00	37.38	1628324
26.10	40.91	1782246
26.20	44.52	1939479
26.30	48.19	2099086
26.40	51.89	2260352
26.50	55.62	2422768
26.60	59.37	2585987
26.70	63.13	2749787
26.80	66.90	2914054
26.90	70.68	3078743
27.00	74.47	3243829
27.10	78.27	3409272
27.20	82.07	3575064
27.30	85.89	3741195
27.40	89.71	3907670
27.50	93.54	4074517
27.60	97.38	4241752
27.70	101.22	4409338
27.80	105.08	4577233
27.90	108.94	4745416
28.00	112.81	4913885
28.10	116.68	5082642
28.20	120.56	5251676

Stage [ft]	Volume [ac-ft]	Volume [ft3]
28.30	124.45	5420962
28.40	128.34	5590479
28.50	132.24	5760208
28.60	136.14	5930141
28.70	140.04	6100272
28.80	143.95	6270598
28.90	147.87	6441113
29.00	151.79	6611802
29.10	155.71	6782658
29.20	159.63	6953673
29.30	163.56	7124843
29.40	167.50	7296159
29.50	171.43	7467613
29.60	175.37	7639201
29.70	179.31	7810922
29.80	183.26	7982777
29.90	187.21	8154764
30.00	191.16	8326886
30.10	195.11	8499149
30.20	199.07	8671561
30.30	203.03	8844136
30.40	207.00	9016885
30.50	210.97	9189813
30.60	214.94	9362913
30.70	218.92	9536169
30.80	222.90	9709563
30.90	226.88	9883076
31.00	230.87	10056695
31.10	234.86	10230411
31.20	238.85	10404208
31.30	242.84	10578077
31.40	246.83	10752008
31.50	250.83	10925992
31.60	254.82	11100024
31.70	258.82	11274091
31.80	262.81	11448183
31.90	266.81	11622294
32.00	270.81	11796415
32.10	274.81	11970541
32.20	278.80	12144669
32.30	282.80	12318798
32.40	286.80	12492926
32.50	290.80	12667055
32.60	294.79	12841184
32.70	298.79	13015312
32.80	302.79	13189441
32.90	306.79	13363569
33.00	310.78	13537698
33.10	314.78	13711827

Stage [ft]	Volume [ac-ft]	Volume [ft3]
33.20	318.78	13885955
33.30	322.78	14060084
33.40	326.77	14234212
33.50	330.77	14408341
33.60	334.77	14582470
33.70	338.76	14756598
33.80	342.76	14930727
33.90	346.76	15104855
34.00	350.76	15278984
20.29	0.00	44
19.00	0.00	44

Comment:

Node: TC TAILWATER

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	30.0000	25.10
0	0	0	60.0000	25.50
0	0	0	73.3800	26.08
0	0	0	240.0000	25.52
0	0	0	360.0000	25.14
0	0	0	999.0000	25.00

Comment:

Node: WETLAND 1

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
20.90	0.00	1
21.00	0.00	40
21.10	0.00	148

Stage [ft]	Volume [ac-ft]	Volume [ft3]
21.20	0.01	288
21.30	0.01	458
21.40	0.01	651
21.50	0.02	862
21.60	0.02	1087
21.70	0.03	1335
21.80	0.04	1625
21.90	0.05	1981
22.00	0.06	2454
22.10	0.07	3102
22.20	0.09	4018
22.30	0.12	5289
22.40	0.16	6905
22.50	0.20	8869
22.60	0.26	11272
22.70	0.33	14382
22.80	0.43	18711
22.90	0.57	24629
23.00	0.75	32455
23.10	0.97	42447
23.20	1.26	55020
23.30	1.62	70536
23.40	2.05	89402
23.50	2.67	116334
23.60	3.55	154540
23.70	4.76	207265
23.80	6.70	291672
23.90	9.45	411573
24.00	13.14	572285
24.10	17.99	783703
24.20	24.09	1049151
24.30	31.36	1366145
24.40	39.87	1736812
24.50	49.68	2164072
24.60	60.80	2648466
24.70	73.25	3190905
24.80	87.05	3791822
24.90	102.44	4462137
25.00	119.76	5216712
25.10	139.51	6076879
25.20	162.23	7066879
25.30	188.08	8192696
25.40	216.89	9447767
25.50	248.37	10818991
25.60	282.24	12294170
25.70	318.30	13864934
25.80	356.42	15525784
25.90	396.32	17263749
26.00	437.56	19060108

Stage [ft]	Volume [ac-ft]	Volume [ft3]
26.10	479.80	20900183
26.20	522.86	22775729
26.30	566.58	24680408
26.40	610.90	26610715
26.50	655.75	28564563
26.60	701.04	30537128
26.70	746.60	32521784
26.80	792.33	34513930
26.90	838.20	36512019
27.00	884.19	38515285
27.10	930.29	40523366
27.20	976.49	42536119
27.30	1022.81	44553508
27.40	1069.23	46575519
27.50	1115.75	48602139
27.60	1162.38	50633399
27.70	1209.13	52669537
27.80	1255.99	54711079
27.90	1303.01	56758986
28.00	1350.20	58814752
28.10	1397.61	60879975
28.20	1445.23	62954119
28.30	1492.98	65034192
28.40	1540.82	67118179
28.50	1588.74	69205509
28.60	1636.73	71295823
28.70	1684.77	73388763
28.80	1732.88	75484142
28.90	1781.04	77581898
29.00	1829.25	79682014
29.10	1877.51	81784473
29.20	1925.83	83889330
29.30	1974.21	85996418
29.40	2022.62	88105319
29.50	2071.07	90215818
29.60	2119.56	92327876
29.70	2168.08	94441508
29.80	2216.64	96556757
29.90	2265.23	98673520
30.00	2313.86	100791592
30.10	2362.51	102910826
30.20	2411.18	105031188
30.30	2459.89	107152608
30.40	2508.61	109274925
30.50	2557.35	111398020
30.60	2606.10	113521821
30.70	2654.87	115646286
30.80	2703.66	117771366
30.90	2752.46	119896985

Stage [ft]	Volume [ac-ft]	Volume [ft3]
31.00	2801.26	122023050
31.10	2850.08	124149509
31.20	2898.91	126276342
31.30	2947.74	128403508
31.40	2996.58	130530969
31.50	3045.42	132658686
31.60	3094.28	134786634
31.70	3143.13	136914800
31.80	3191.99	139043148
31.90	3240.86	141171652
32.00	3289.72	143300294
32.10	3338.59	145429062
32.20	3387.46	147557937
32.30	3436.34	149686891
32.40	3485.21	151815903
32.50	3534.09	153944915
32.60	3582.96	156073927
32.70	3631.84	158202939
32.80	3680.72	160331950
32.90	3729.59	162460962
33.00	3778.47	164589974
33.10	3827.34	166718986
33.20	3876.22	168847998
33.30	3925.09	170977010
33.40	3973.97	173106022
33.50	4022.84	175235034
33.60	4071.72	177364046
33.70	4120.59	179493058
33.80	4169.47	181622070
33.90	4218.34	183751082

Comment:

Node: WETLAND 2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.63 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
22.88	0.0015	64
23.13	0.0170	740
23.38	0.1200	5225
23.63	0.4007	17455
23.88	1.0396	45284

Stage [ft]	Area [ac]	Area [ft2]
24.13	2.2061	96099
24.38	5.0691	220811
24.63	10.1740	443181
24.88	17.3818	757153
25.13	26.0959	1136740
25.38	36.2449	1578828
25.63	46.2518	2014727
25.63	46.3466	2018859
25.63	46.3468	2018867
25.88	51.0040	2221732
26.13	52.3168	2278919
26.38	52.7378	2297257
26.63	52.8931	2304023
26.88	52.9534	2306651
27.13	52.9807	2307838
27.38	52.9911	2308292
27.63	52.9937	2308406
27.88	52.9945	2308439
28.13	52.9948	2308451
28.38	52.9948	2308452

Comment:

Node: WETLAND 3

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.13	0.0000	0
20.38	0.0009	37
20.63	0.0051	221
20.88	0.0119	517
21.13	0.0201	877
21.38	0.0296	1290
21.63	0.0391	1705
21.88	0.0515	2242
22.13	0.1367	5953
22.38	1.1948	52047
22.63	3.8349	167049
22.88	5.8285	253889
23.13	7.3956	322152
23.38	12.2923	535452
23.63	19.0391	829344

Stage [ft]	Area [ac]	Area [ft2]
23.88	28.9285	1260126
24.13	36.0136	1568754
24.38	41.4189	1804207
24.63	47.2121	2056558
24.88	56.9014	2478624
25.13	72.4670	3156661
25.38	80.4166	3502946
25.50	81.6909	3558456
25.50	81.6909	3558456
25.63	82.9653	3613967
25.88	83.8310	3651679
26.13	84.1185	3664200
26.38	84.2685	3670736
26.63	84.3498	3674275
26.88	84.3912	3676082
27.13	84.4128	3677023
27.38	84.4190	3677294
27.63	84.4193	3677305

Comment:

Node: WETLAND 4

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.20 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.38	0.0001	5
20.63	0.0008	36
20.88	0.0080	347
21.13	0.0275	1199
21.38	0.1425	6208
21.63	0.3707	16149
21.88	1.9801	86255
22.13	7.0895	308819
22.38	10.9244	475866
22.63	13.5921	592073
22.88	15.4377	672465
23.13	16.7961	731640
23.38	18.1182	789229
23.63	19.4757	848361
23.88	21.0341	916247
24.13	24.1207	1050698
24.38	28.7705	1253241

Stage [ft]	Area [ac]	Area [ft2]
24.63	34.1941	1489496
24.88	40.7554	1775304
25.13	43.8675	1910868
25.20	44.1719	1924128
25.20	44.1719	1924130
25.38	44.8823	1955074
25.63	45.2921	1972923
25.88	45.4217	1978570
26.13	45.4620	1980326
26.38	45.4803	1981123
26.63	45.4886	1981482
26.88	45.4915	1981611

Comment:

Node: WETLAND 5

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.16 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.13	0.0000	0
23.38	0.0056	243
23.63	0.0289	1260
23.88	0.1333	5808
24.13	0.9934	43273
24.38	5.1897	226062
24.63	13.9896	609387
24.88	22.6164	985169
25.13	26.9576	1174271
25.16	27.1058	1180729
25.16	27.1058	1180729
25.38	28.0166	1220404
25.63	28.4804	1240608
25.88	28.6771	1249176
26.13	28.7891	1254052
26.38	28.8426	1256382
26.63	28.8633	1257287
26.88	28.8710	1257621
27.13	28.8753	1257807
27.38	28.8781	1257931
27.63	28.8796	1257995
27.88	28.8799	1258009

Comment:

Node: WETLAND 6

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.12 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.63	0.0027	119
21.88	0.1416	6167
22.13	0.8669	37761
22.38	1.2965	56474
22.63	1.5426	67194
22.88	1.8068	78702
23.13	2.0749	90382
23.38	2.3176	100954
23.63	2.5430	110771
23.88	2.9461	128331
24.13	3.3746	146998
24.38	3.7534	163496
24.63	4.8113	209579
24.88	6.9324	301974
25.12	7.9984	348411
25.12	7.9985	348413
25.13	8.0202	349361
25.38	8.3844	365224
25.63	8.5016	370328
25.88	8.5657	373120
26.13	8.6053	374846
26.38	8.6253	375719
26.63	8.6344	376116
26.88	8.6392	376325
27.13	8.6424	376463
27.38	8.6429	376485
27.63	8.6430	376487

Comment:

Node: WETLAND 7

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft

Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.13	0.0002	10
21.38	0.1088	4738
21.63	1.1474	49979
21.88	1.8916	82398
22.13	2.5911	112868
22.38	3.6389	158512
22.63	4.8659	211960
22.88	7.0058	305172
23.13	21.2101	923913
23.38	33.5139	1459863
23.63	42.8066	1864655
23.88	50.7818	2212057
24.13	59.2215	2579686
24.38	66.3524	2890310
24.63	72.5550	3160497
24.84	75.7304	3298818
24.84	75.5829	3292390
24.88	76.2475	3321342
25.13	77.9608	3395971
25.38	79.0714	3444351
25.63	79.6153	3468041
25.88	79.7558	3474160
26.13	79.7799	3475213
26.38	79.7866	3475503
26.63	79.7878	3475554
26.88	79.7879	3475561

Comment: Stage Storage provided via County Lidar

Channel Link: CH-DMY1-DMY2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.41 ft	Invert:	23.16 ft
From Node:	DUMMY 1	Manning's N:	0.0210	Manning's N:	0.0210
To Node:	DUMMY 2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	999.00 ft	Max Depth:	999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	2.00 ft	Bottom Width:	2.00 ft
Length:	289.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.20	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.20	Op Table:		Op Table:	
Bend Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			

		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SW1-SW2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	TC COMMERCIAL	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	99999.00 ft	Max Depth:	99999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1264.66 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN2-SWN3		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N2	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N3	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1276.49 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	

		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN3-SWN4		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N3	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N4	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1719.15 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN4-TC OUTFALL		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N4	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	TC TAILWATER	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	70.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Rating Curve Link: CS1-DRD-N3

Scenario: Icpr3
From Node: Daniels Road
To Node: Swale N3
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-12	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-N4

Scenario: Icpr3
From Node: Daniels Road
To Node: Swale N4
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-11	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-14	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-7	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DS1-DRD

Scenario: Icpr3
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-9	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-15	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-8	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DS1-DRD

Scenario: Icpr3
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-13	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-16	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-10	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Drop Structure Link: DS-DMY2-EB TW

Scenario: Icpr3
From Node: DUMMY 2
To Node: EB TAILWATER
Link Count: 1
Flow Direction: Both

Upstream Pipe		Downstream Pipe	
Invert:	23.16 ft	Invert:	23.16 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Max Depth:	2.83 ft	Max Depth:	2.83 ft
Bottom Clip			

Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	999.00 ft	Discharge Coefficients	
Max Width:	999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N2		Upstream Pipe		Downstream Pipe	
		Invert:	22.53 ft	Invert:	23.60 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	Swale N2	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	195.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				

Bend Location:	0.00 dec
Energy Switch:	Energy

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.00 ft	**Discharge Coefficients**	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N3		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	22.36 ft	Invert:	23.34 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	Swale N3	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Flow Direction:	Both	**Bottom Clip**			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	206.00 ft	**Top Clip**			
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft		

Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N4	
Scenario:	Icpr3
From Node:	WETLAND 1
To Node:	Swale N4
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	204.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe	
Invert:	24.08 ft
Manning's N:	0.0140

Geometry: Horizontal Ellipse	
Max Depth:	1.17 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	24.11 ft
Manning's N:	0.0140

Geometry: Horizontal Ellipse	
Max Depth:	1.17 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600

Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-TC COMMERCIAL		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	22.23 ft	Invert:	22.10 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	TC COMMERCIAL	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Flow Direction:	Both	Bottom Clip		Bottom Clip	
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	187.00 ft	Top Clip		Top Clip	
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0100 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.00 ft	Ref Node:	
Max Depth:	9999.00 ft	Discharge Coefficients	
Max Width:	9999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 1-	Upstream Pipe	Downstream Pipe

TIMBER CREEK OUTFALL		Invert:	24.74 ft	Invert:	23.88 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	TC TAILWATER	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	160.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.00 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000

Damping:	0.0100 ft
Length:	52.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 1-AIRPORT BASIN 11	
Scenario:	Icpr3
From Node:	WETLAND 1
To Node:	AirportBasin11
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	36.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	23.50 ft	Invert:	23.50 ft
Manning's N:	0.0140	Manning's N:	0.0140
Geometry: Circular		Geometry: Circular	
Max Depth:	2.00 ft	Max Depth:	2.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 1-TIMBER CREEK OUTFALL		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	24.26 ft	Invert:	24.25 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	TC COMMERCIAL	**Geometry: Horizontal Ellipse**		**Geometry: Horizontal Ellipse**	
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Flow Direction:	Both	**Bottom Clip**			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	2	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	177.00 ft	**Top Clip**			
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft		

Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS3-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip		Bottom Clip	
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	33.00 ft	Top Clip		Top Clip	
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	**Bottom Clip**	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	**Top Clip**	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	999.00 ft	**Discharge Coefficients**	
Max Width:	999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS4-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip		Bottom Clip	
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip		Top Clip	
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Weir Link: OW-DANIELS SOUTH- ESTERO BAY		Bottom Clip	
Scenario:	Icpr3	Default:	0.00 ft
From Node:	WETLAND 7	Op Table:	
To Node:	EB TAILWATER	Ref Node:	
Link Count:	1		

Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Gravel Road Vertical
Geometry Type:	Irregular
Invert:	25.20 ft
Control Elevation:	25.00 ft
Cross Section:	OW-WETLAND 1-OUTFALL

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS EAST-WETLAND 6

Scenario:	Icpr3
From Node:	DS EAST
To Node:	WETLAND 6
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.00 ft
Control Elevation:	25.40 ft
Cross Section:	OW-DS EAST-WETLAND 6

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS EAST-WETLAND 7

Scenario:	Icpr3
From Node:	DS EAST
To Node:	WETLAND 7
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	23.74 ft
Control Elevation:	25.40 ft
Cross Section:	OW-DS EAST-WETLAND 7

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS NORTH-WETLAND 2

Scenario:	Icpr3
From Node:	DS NORTH
To Node:	WETLAND 2
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.48 ft
Control Elevation:	25.63 ft
Cross Section:	OW-DS NORTH-WETLAND 2

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS WEST-WETLAND 4

Scenario:	Icpr3
From Node:	DS WEST
To Node:	WETLAND 4
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.57 ft
Control Elevation:	25.50 ft
Cross Section:	OW-DS WEST-WETLAND 4

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS WEST-WETLAND 5

Scenario:	Icpr3
From Node:	DS WEST
To Node:	WETLAND 5
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	23.60 ft
Control Elevation:	25.50 ft
Cross Section:	OW-DS WEST-WETLAND 5

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600

	Orifice Table:

Comment:

Weir Link: OW-WETLAND 2-DS EAST

Scenario:	Icpr3
From Node:	WETLAND 2
To Node:	DS EAST
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.41 ft
Control Elevation:	25.63 ft
Cross Section:	OW-WETLAND 2-DS EAST

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 2-WETLAND 3

Scenario:	Icpr3
From Node:	WETLAND 2
To Node:	WETLAND 3
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.62 ft
Control Elevation:	25.63 ft
Cross Section:	OW-WETLAND 2-WETLAND 3

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 3-DS EAST

Scenario:	Icpr3
From Node:	WETLAND 3
To Node:	DS EAST
Link Count:	1
Flow Direction:	Both

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	

Damping:	0.0000 ft		
Weir Type:	Broad Crested Vertical	Default:	0.00 ft
Geometry Type:	Irregular	Op Table:	
Invert:	25.00 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Cross Section:	OW-WETLAND 3-DS EAST	Weir Default:	2.800
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 3-DS WEST

Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 3	Default:	0.00 ft
To Node:	DS WEST	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.02 ft	Discharge Coefficients	
Control Elevation:	25.50 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 3-DS WEST	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 3-WETLAND 4

Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 3	Default:	0.00 ft
To Node:	WETLAND 4	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.84 ft	Discharge Coefficients	
Control Elevation:	25.50 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 3-WETLAND 4	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 4-DS EAST

Scenario:	Icpr3
From Node:	WETLAND 4
To Node:	DS EAST
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.84 ft
Control Elevation:	25.40 ft
Cross Section:	OW-WETLAND 4-DS EAST

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 4-WETLAND 5

Scenario:	Icpr3
From Node:	WETLAND 4
To Node:	WETLAND 5
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.22 ft
Control Elevation:	25.20 ft
Cross Section:	OW-WETLAND 4-WETLAND 5

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 5-WETLAND 7

Scenario:	Icpr3
From Node:	WETLAND 5
To Node:	WETLAND 7
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.08 ft
Control Elevation:	25.16 ft
Cross Section:	OW-WETLAND 5-WETLAND 7

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600

Orifice Table:	

Comment:

Weir Link: OW-WETLAND 6-WETLAND 7			
Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 6	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.74 ft	Discharge Coefficients	
Control Elevation:	25.12 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 6- WETLAND 7	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Pipe Link: P-DS WEST-DUMMY 1		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.12 ft	Invert:	23.41 ft
From Node:	DS WEST	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DUMMY 1	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-EB OUTFALL DMY-EB TW		Upstream		Downstream	
Scenario:	Icpr3	Invert:	21.95 ft	Invert:	21.84 ft
From Node:	EB OUTFALL DUMMY	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
		Max Depth:	3.17 ft	Max Depth:	3.17 ft

Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	36.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P1-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.65 ft	Invert:	23.75 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P2-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	24.16 ft	Invert:	24.14 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
	DUMMY	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P3-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.41 ft	Invert:	23.41 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P4-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	22.84 ft	Invert:	22.76 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P5-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	22.75 ft	Invert:	22.68 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			

Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-DMY1-DMY2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.41 ft	Invert:	23.16 ft
From Node:	DUMMY 1	Manning's N:	0.0210	Manning's N:	0.0210
To Node:	DUMMY 2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	999.00 ft	Max Depth:	999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	2.00 ft	Bottom Width:	2.00 ft
Length:	289.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.20	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.20	Op Table:		Op Table:	
Bend Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SW1-SW2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	TC COMMERCIAL	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	99999.00 ft	Max Depth:	99999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1264.66 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	

		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN2-SWN3		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N2	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N3	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1276.49 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN3-SWN4		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N3	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N4	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1719.15 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN4-TC OUTFALL		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N4	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	TC TAILWATER	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	70.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300
Comment:					

Pipe Link: P-DS WEST-DUMMY 1		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.12 ft	Invert:	23.41 ft
From Node:	DS WEST	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DUMMY 1	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P-EB OUTFALL DMY-EB TW		Upstream		Downstream	
Scenario:	Icpr3	Invert:	21.95 ft	Invert:	21.84 ft
From Node:	EB OUTFALL DUMMY	Manning's N:	0.0120	Manning's N:	0.0120
		Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	EB TAILWATER	Max Depth:	3.17 ft	Max Depth:	3.17 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft

Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	36.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P1-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.65 ft	Invert:	23.75 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P2-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	24.16 ft	Invert:	24.14 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
	DUMMY	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P3-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.41 ft	Invert:	23.41 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P4-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	22.84 ft	Invert:	22.76 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P5-W7-EB DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	22.75 ft	Invert:	22.68 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			

Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Weir Link: OW-DANIELS SOUTH- ESTERO BAY

Scenario:	Icpr3	**Bottom Clip**	
From Node:	WETLAND 7	Default:	0.00 ft
To Node:	EB TAILWATER	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Gravel Road Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.20 ft	**Discharge Coefficients**	
Control Elevation:	25.00 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 1-OUTFALL	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-DS EAST-WETLAND 6

Scenario:	Icpr3	**Bottom Clip**	
From Node:	DS EAST	Default:	0.00 ft
To Node:	WETLAND 6	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.00 ft	**Discharge Coefficients**	
Control Elevation:	25.40 ft	Weir Default:	2.800
Cross Section:	OW-DS EAST-WETLAND 6	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-DS EAST-WETLAND 7

Scenario:	Icpr3	**Bottom Clip**	
From Node:	DS EAST	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	

Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	23.74 ft
Control Elevation:	25.40 ft
Cross Section:	OW-DS EAST-WETLAND 7

Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS NORTH-WETLAND 2

Scenario:	Icpr3
From Node:	DS NORTH
To Node:	WETLAND 2
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.48 ft
Control Elevation:	25.63 ft
Cross Section:	OW-DS NORTH-WETLAND 2

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS WEST-WETLAND 4

Scenario:	Icpr3
From Node:	DS WEST
To Node:	WETLAND 4
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.57 ft
Control Elevation:	25.50 ft
Cross Section:	OW-DS WEST-WETLAND 4

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS WEST-WETLAND 5			
Scenario:	Icpr3	Bottom Clip	
From Node:	DS WEST	Default:	0.00 ft
To Node:	WETLAND 5	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	23.60 ft	Discharge Coefficients	
Control Elevation:	25.50 ft	Weir Default:	2.800
Cross Section:	OW-DS WEST-WETLAND 5	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	
Comment:			

Weir Link: OW-WETLAND 2-DS EAST			
Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 2	Default:	0.00 ft
To Node:	DS EAST	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.41 ft	Discharge Coefficients	
Control Elevation:	25.63 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 2-DS EAST	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	
Comment:			

Weir Link: OW-WETLAND 2-WETLAND 3			
Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 2	Default:	0.00 ft
To Node:	WETLAND 3	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.62 ft	Discharge Coefficients	
Control Elevation:	25.63 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 2-WETLAND 3	Weir Table:	
		Orifice Default:	0.600

	Orifice Table:

Comment:

Weir Link: OW-WETLAND 3-DS EAST

Scenario:	Icpr3
From Node:	WETLAND 3
To Node:	DS EAST
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.00 ft
Control Elevation:	25.50 ft
Cross Section:	OW-WETLAND 3-DS EAST

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 3-DS WEST

Scenario:	Icpr3
From Node:	WETLAND 3
To Node:	DS WEST
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.02 ft
Control Elevation:	25.50 ft
Cross Section:	OW-WETLAND 3-DS WEST

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 3-WETLAND 4

Scenario:	Icpr3
From Node:	WETLAND 3
To Node:	WETLAND 4
Link Count:	1
Flow Direction:	Both

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	

Damping:	0.0000 ft		
Weir Type:	Broad Crested Vertical	Default:	0.00 ft
Geometry Type:	Irregular	Op Table:	
Invert:	24.84 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Cross Section:	OW-WETLAND 3-WETLAND 4	Weir Default:	2.800
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 4-DS EAST

Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 4	Default:	0.00 ft
To Node:	DS EAST	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.84 ft	Discharge Coefficients	
Control Elevation:	25.40 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 4-DS EAST	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 4-WETLAND 5

Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 4	Default:	0.00 ft
To Node:	WETLAND 5	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.22 ft	Discharge Coefficients	
Control Elevation:	25.20 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 4-WETLAND 5	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 5-WETLAND 7			
Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 5	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.08 ft	Discharge Coefficients	
Control Elevation:	25.16 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 5-WETLAND 7	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 6-WETLAND 7			
Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 6	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.74 ft	Discharge Coefficients	
Control Elevation:	25.12 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 6- WETLAND 7	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Drop Structure Link: DS-DMY2-EB TW		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.16 ft	Invert:	23.16 ft
From Node:	DUMMY 2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	

Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N2		Upstream Pipe		Downstream Pipe	
		Invert:	22.53 ft	Invert:	23.60 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	Swale N2	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Link Count:	1	**Bottom Clip**			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	**Top Clip**			
Length:	195.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1		
Weir Count:	1	Default:	0.00 ft

Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N3

Scenario:	Icpr3
From Node:	WETLAND 1
To Node:	Swale N3
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	206.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	22.36 ft	Invert:	23.34 ft
Manning's N:	0.0140	Manning's N:	0.0140
Geometry: Horizontal Ellipse		**Geometry: Horizontal Ellipse**	
Max Depth:	1.17 ft	Max Depth:	1.17 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200

Fillet:	0.00 ft		
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N4		Upstream Pipe		Downstream Pipe	
		Invert:	24.08 ft	Invert:	24.11 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	Swale N4	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	204.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0100 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.00 ft	Ref Node:	
Max Depth:	9999.00 ft	Discharge Coefficients	
Max Width:	9999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-TC COMMERCIAL		Upstream Pipe		Downstream Pipe	
		Invert:	22.23 ft	Invert:	22.10 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	TC COMMERCIAL	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	187.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.00 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 1-TIMBER CREEK OUTFALL		Upstream Pipe		Downstream Pipe	
		Invert:	24.74 ft	Invert:	23.88 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	TC TAILWATER	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	

Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	160.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0100 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.00 ft	Ref Node:	
Max Depth:	9999.00 ft	Discharge Coefficients	
Max Width:	9999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	52.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	36.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular		

Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	999.00 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 1-TIMBER CREEK OUTFALL

Scenario:	Icpr3
From Node:	WETLAND 1
To Node:	TC COMMERCIAL
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	2
Damping:	0.0100 ft
Length:	177.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	24.26 ft	Invert:	24.25 ft
Manning's N:	0.0140	Manning's N:	0.0140
Geometry: Horizontal Ellipse		**Geometry: Horizontal Ellipse**	
Max Depth:	1.17 ft	Max Depth:	1.17 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS3-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	33.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS4-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Circular		Geometry: Circular	

To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	31.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	999.00 ft	Discharge Coefficients	
Max Width:	999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Rating Curve Link: CS1-DRD-N3

Scenario:	Icpr3
From Node:	Daniels Road
To Node:	Swale N3
Link Count:	1
Flow Direction:	Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-12	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-N4

Scenario: Icpr3
From Node: Daniels Road
To Node: Swale N4
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-11	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-14	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-7	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DS1-DRD

Scenario: Icpr3
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-9	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-15	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-8	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DS1-DRD

Scenario: Icpr3
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-13	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-16	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-10	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Weir Cross Section: OW-DS EAST-WETLAND 6

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.19
1	46.38	26.03
2	76.17	25.54
3	117.16	24.02
4	148.79	24.55
5	184.85	25.15
6	246.08	24.74
7	283.99	24.88
8	317.33	24.10
9	332.72	24.00
10	364.41	24.08
11	398.54	24.13

Comment:

Weir Cross Section: OW-DS EAST-WETLAND 7

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.08
1	81.71	25.07
2	115.77	25.13
3	151.07	25.05
4	208.13	24.95
5	237.64	25.64
6	260.18	24.73
7	322.24	25.09
8	360.34	25.42
9	459.34	25.16
10	487.43	25.18
11	514.84	25.00
12	575.38	24.84
13	599.02	24.80
14	626.42	24.88
15	676.32	24.72
16	708.18	23.75
17	767.95	24.78
18	863.17	24.87

Comment:

Weir Cross Section: OW-DS NORTH-WETLAND 2

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
1	0.00	25.89
2	98.24	26.25
3	142.45	25.87
4	194.20	25.31
5	234.71	25.96
6	274.02	24.48
7	318.09	25.04
8	377.97	25.51
9	414.88	25.61

Comment:

Weir Cross Section: OW-DS WEST-WETLAND 4

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.15
1	51.56	26.00
2	108.72	24.97
3	164.92	25.19
4	214.43	24.65
5	262.50	24.82
6	340.30	24.80
7	388.97	24.57
8	455.03	24.66
9	497.87	25.19
10	539.74	25.05
11	632.61	24.86

Comment:

Weir Cross Section: OW-DS WEST-WETLAND 5

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.31
1	82.60	24.19
2	110.43	24.42
3	154.11	24.18
4	194.77	23.99
5	310.59	23.60
6	384.18	25.69
7	427.66	24.48
8	480.69	24.48
9	550.03	24.63
10	666.43	25.99

Comment:

Weir Cross Section: OW-OFFSITE2-WETLAND 1

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	26.32
1	22.36	25.55
2	44.72	25.44
3	67.08	25.44
4	89.44	25.56
5	111.80	25.55
6	134.16	25.44
7	156.52	25.67
8	178.89	25.94
9	201.25	25.62
10	223.61	25.80
11	245.97	25.54
12	268.33	25.60
13	290.59	25.48
14	313.05	25.56
15	335.41	25.49
16	357.77	25.26
17	380.13	25.19
18	402.49	25.40
19	424.85	25.30
20	447.21	25.16
21	469.57	25.30
22	491.93	25.37
23	514.30	25.31
24	536.66	25.51
25	559.02	25.62
26	581.82	25.49
27	603.74	25.44
28	626.10	25.29
29	648.46	25.44
30	670.82	25.73
31	693.18	25.33
32	715.54	25.59
33	737.90	25.69
34	760.26	25.26

Comment:

Weir Cross Section: OW-WETLAND 1-OUTFALL

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.20

Order	Station [ft]	Elevation [ft]
1	1657.16	25.60
2	2942.13	25.20
3	3153.57	26.10

Comment:

Weir Cross Section: OW-WETLAND 2-DS EAST

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.94
1	47.09	25.77
2	105.79	25.76
3	146.48	26.12
4	207.25	26.12
5	269.82	25.80
6	298.17	25.65
7	338.37	25.68
8	374.10	25.51
9	420.08	25.56
10	472.61	25.41
11	525.38	25.44

Comment:

Weir Cross Section: OW-WETLAND 2-WETLAND 3

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	24.78
1	66.09	24.62
2	194.73	24.68
3	352.84	24.82
4	596.90	25.83
5	904.53	25.63
6	1092.44	25.73
7	1268.62	25.70

Comment:

Weir Cross Section: OW-WETLAND 3-DS EAST

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.19
1	41.01	25.06
2	90.05	25.14
3	162.40	25.24
4	228.61	25.15
5	267.65	25.22
6	316.53	25.09
7	372.85	25.15
8	408.38	25.06
9	465.30	25.00
10	513.18	25.14
11	553.19	25.11
12	559.88	25.11

Comment:

Weir Cross Section: OW-WETLAND 3-DS WEST

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.50
1	81.43	25.48
2	140.96	25.58
3	230.09	25.89
4	298.25	25.67
5	335.52	25.94
6	432.85	25.53
7	468.95	25.20
8	476.27	25.26
9	512.96	25.93
10	559.30	26.12
11	631.99	25.02
12	739.75	27.20

Comment:

Weir Cross Section: OW-WETLAND 3-WETLAND 4

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	24.93
1	81.55	24.84
2	162.95	25.05

Comment:

Weir Cross Section: OW-WETLAND 4-DS EAST

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.15
1	38.32	25.06
2	98.22	24.84
3	212.97	25.14
4	278.12	25.19
5	345.52	25.03
6	409.38	25.12
7	459.68	25.19

Comment:

Weir Cross Section: OW-WETLAND 4-WETLAND 5

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.00
1	28.80	24.83
2	65.07	24.90
3	105.84	24.22

Comment:

Weir Cross Section: OW-WETLAND 5-WETLAND 7

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.08
1	46.17	25.33
2	110.09	25.60
3	151.60	25.19
4	203.55	25.28
5	315.54	26.31
6	370.56	25.89
7	403.27	25.14

Comment:

Weir Cross Section: OW-WETLAND 6- WETLAND 7

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.18
1	15.91	24.82
2	33.02	24.74
3	53.49	24.83

Comment:

Curve Number: Icpr3 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
AirportBasin11	AirportBasin11	95.5
BASIN 10	BASIN 10	66.5
BASIN 11	BASIN 11	66.5
BASIN 1A	BASIN 1A	66.5
BASIN 1B	BASIN 1B	66.5
BASIN 2	BASIN 2	66.5
BASIN 3	BASIN 3	66.5
BASIN 4A	BASIN 4A	66.5
BASIN 4B	BASIN 4B	66.5
BASIN 5	BASIN 5	66.5
BASIN 6	BASIN 6	66.5
BASIN 7	BASIN 7	66.5
BASIN 8	BASIN 8	66.5

Land Cover Zone	Soil Zone	Curve Number [dec]
BASIN 9	BASIN 9	66.5
DS EAST	DS EAST	84.2
DS NORTH	DS NORTH	84.9
DS WEST	DS WEST	91.2
NG1	NG1	98.7
OFFSITE 1	OFFSITE 1	95.9
OFFSITE 2	OFFSITE 2	94.2
SWALE N2	SWALE N2	98.0
SWALE N3	SWALE N3	98.0
SWALE N4	SWALE N4	98.0
SWALE OFF1	SWALE OFF1	98.0
W1	W1	98.1
W10	W10	98.3
W2	W2	98.2
W3	W3	98.3
W4	W4	98.3
W5-W7-W8N	W5-W7-W8N	98.1
W6	W6	98.4
W9	W9	98.7
WETLAND 1	WETLAND 1	88.9
WETLAND 2	WETLAND 2	98.2
WETLAND 3	WETLAND 3	99.4
WETLAND 4	WETLAND 4	99.6
WETLAND 5	WETLAND 5	98.5
WETLAND 6	WETLAND 6	98.6
WETLAND 7	WETLAND 7	99.3

Rating Curve: CS-10

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.01
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.02
0	0	0	9.0000	0.02
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.03
0	0	0	11.0000	0.03
0	0	0	11.5000	0.03
0	0	0	12.0000	0.04
0	0	0	12.5000	0.04
0	0	0	13.0000	0.04
0	0	0	13.5000	0.05
0	0	0	14.0000	0.05
0	0	0	14.5000	0.05
0	0	0	15.0000	0.05
0	0	0	15.5000	0.06
0	0	0	16.0000	0.06
0	0	0	16.5000	0.06
0	0	0	17.0000	0.07
0	0	0	17.5000	0.07
0	0	0	18.0000	0.07
0	0	0	18.5000	0.08
0	0	0	19.0000	0.08
0	0	0	19.5000	0.08
0	0	0	20.0000	0.08
0	0	0	20.5000	0.09
0	0	0	21.0000	0.09
0	0	0	21.5000	0.09
0	0	0	22.0000	0.09
0	0	0	22.5000	0.10
0	0	0	23.0000	0.10
0	0	0	23.5000	0.10
0	0	0	24.0000	0.10
0	0	0	24.5000	0.11
0	0	0	25.0000	0.11
0	0	0	25.5000	0.12
0	0	0	26.0000	0.12
0	0	0	26.5000	0.13
0	0	0	27.0000	0.13
0	0	0	27.5000	0.14
0	0	0	28.0000	0.14
0	0	0	28.5000	0.15
0	0	0	29.0000	0.15
0	0	0	29.5000	0.16
0	0	0	30.0000	0.16
0	0	0	30.5000	0.16
0	0	0	31.0000	0.17

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	31.5000	0.17
0	0	0	32.0000	0.17
0	0	0	32.5000	0.18
0	0	0	33.0000	0.18
0	0	0	33.5000	0.18
0	0	0	34.0000	0.19
0	0	0	34.5000	0.19
0	0	0	35.0000	0.19
0	0	0	35.5000	0.19
0	0	0	36.0000	0.20
0	0	0	36.5000	0.20
0	0	0	37.0000	0.20
0	0	0	37.5000	0.20
0	0	0	38.0000	0.21
0	0	0	38.5000	0.21
0	0	0	39.0000	0.21
0	0	0	39.5000	0.21
0	0	0	40.0000	0.21
0	0	0	40.5000	0.21
0	0	0	41.0000	0.22
0	0	0	41.5000	0.22
0	0	0	42.0000	0.22
0	0	0	42.5000	0.22
0	0	0	43.0000	0.22
0	0	0	43.5000	0.22
0	0	0	44.0000	0.22
0	0	0	44.5000	0.22
0	0	0	45.0000	0.22
0	0	0	45.5000	0.22
0	0	0	46.0000	0.22
0	0	0	46.5000	0.23
0	0	0	47.0000	0.23
0	0	0	47.5000	0.23
0	0	0	48.0000	0.23
0	0	0	48.5000	0.23
0	0	0	48.7500	0.23
0	0	0	49.0000	0.23
0	0	0	49.2500	0.23
0	0	0	49.5000	0.23
0	0	0	49.7500	0.23
0	0	0	50.0000	0.24
0	0	0	50.2500	0.23
0	0	0	50.5000	0.24
0	0	0	50.7500	0.24
0	0	0	51.0000	0.24
0	0	0	51.2500	0.25
0	0	0	51.5000	0.25
0	0	0	51.7500	0.25
0	0	0	52.0000	0.25

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	52.2500	0.26
0	0	0	52.5000	0.27
0	0	0	52.7500	0.27
0	0	0	53.0000	0.27
0	0	0	53.2500	0.28
0	0	0	53.5000	0.29
0	0	0	53.7500	0.30
0	0	0	54.0000	0.31
0	0	0	54.2500	0.32
0	0	0	54.5000	0.33
0	0	0	54.7500	0.34
0	0	0	55.0000	0.35
0	0	0	55.2500	0.36
0	0	0	55.4200	0.37
0	0	0	55.5800	0.38
0	0	0	55.7500	0.39
0	0	0	55.9200	0.40
0	0	0	56.0800	0.41
0	0	0	56.2500	0.41
0	0	0	56.4200	0.43
0	0	0	56.5800	0.44
0	0	0	56.7500	0.45
0	0	0	56.9200	0.46
0	0	0	57.0800	0.47
0	0	0	57.2500	0.48
0	0	0	57.4200	0.50
0	0	0	57.5800	0.51
0	0	0	57.7500	0.52
0	0	0	57.9200	0.54
0	0	0	58.0800	0.55
0	0	0	58.2500	0.57
0	0	0	58.4200	0.59
0	0	0	58.5800	0.61
0	0	0	58.7500	0.63
0	0	0	58.9200	0.66
0	0	0	59.0800	0.69
0	0	0	59.2500	0.73
0	0	0	59.4200	0.78
0	0	0	59.5800	0.88
0	0	0	59.7500	2.96
0	0	0	59.9200	6.77
0	0	0	60.0800	9.89
0	0	0	60.2500	9.58
0	0	0	60.4200	8.25
0	0	0	60.5800	7.11
0	0	0	60.7500	5.99
0	0	0	60.9200	5.07
0	0	0	61.0800	4.37
0	0	0	61.3300	3.52

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	61.5800	2.92
0	0	0	61.8300	2.48
0	0	0	62.0800	2.14
0	0	0	62.3300	1.84
0	0	0	62.5800	1.61
0	0	0	62.8300	1.41
0	0	0	63.0800	1.27
0	0	0	63.3300	1.15
0	0	0	63.5800	1.07
0	0	0	63.8300	0.99
0	0	0	64.0800	0.93
0	0	0	64.3300	0.83
0	0	0	64.5800	0.73
0	0	0	64.8300	0.65
0	0	0	65.0800	0.58
0	0	0	65.3300	0.51
0	0	0	65.5800	0.44
0	0	0	65.8300	0.46
0	0	0	66.0800	0.39
0	0	0	66.3300	0.33
0	0	0	66.5800	0.38
0	0	0	66.8300	0.30
0	0	0	67.0800	0.37
0	0	0	67.3300	0.27
0	0	0	67.5800	0.36
0	0	0	67.8300	0.42
0	0	0	68.0800	0.28
0	0	0	68.3300	0.32
0	0	0	68.5800	0.33
0	0	0	68.8300	0.08
0	0	0	69.0800	0.22
0	0	0	69.3300	0.29
0	0	0	69.5800	0.32
0	0	0	69.8300	0.04
0	0	0	70.0800	0.22
0	0	0	70.3300	0.29
0	0	0	70.5800	0.32
0	0	0	70.8300	0.02
0	0	0	71.0800	0.22
0	0	0	71.3300	0.30
0	0	0	71.5800	0.33
0	0	0	71.8300	0.34
0	0	0	72.0800	0.33
0	0	0	73.0800	-0.13
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	79.0800	0.13
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.13
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.13
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.13
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.13
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.12
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.12
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.11
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.10
0	0	0	109.0800	0.02
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.09
0	0	0	113.0800	0.03
0	0	0	114.0800	0.01
0	0	0	115.0800	0.00
0	0	0	116.0800	0.07
0	0	0	117.0800	0.03
0	0	0	118.0800	0.01
0	0	0	119.0800	0.01
0	0	0	120.0800	0.06
0	0	0	121.0800	0.03
0	0	0	122.0800	0.02
0	0	0	123.0800	0.07
0	0	0	124.0800	0.04
0	0	0	125.0800	0.02
0	0	0	126.0800	0.01
0	0	0	127.0800	0.07

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	128.0800	0.04
0	0	0	129.0800	0.02
0	0	0	130.0800	0.01
0	0	0	131.0800	0.06
0	0	0	132.0800	0.04
0	0	0	133.0800	0.02
0	0	0	134.0800	0.01
0	0	0	135.0800	0.06
0	0	0	136.0800	0.04
0	0	0	137.0800	0.02
0	0	0	138.0800	0.01
0	0	0	139.0800	0.06
0	0	0	140.0800	0.04
0	0	0	141.0800	0.02
0	0	0	142.0800	0.01
0	0	0	143.0800	0.06
0	0	0	144.0800	0.04
0	0	0	145.0800	0.02
0	0	0	146.0800	0.01
0	0	0	147.0800	0.06
0	0	0	148.0800	0.04
0	0	0	149.0800	0.02
0	0	0	150.0800	0.01
0	0	0	151.0800	0.06
0	0	0	152.0800	0.04
0	0	0	153.0800	0.02
0	0	0	154.0800	0.07
0	0	0	155.0800	0.04
0	0	0	156.0800	0.02
0	0	0	157.0800	0.01
0	0	0	158.0800	0.06
0	0	0	159.0800	0.04
0	0	0	160.0800	0.02
0	0	0	161.0800	0.01
0	0	0	162.0800	0.06
0	0	0	163.0800	0.03
0	0	0	164.0800	0.02
0	0	0	165.0800	0.01
0	0	0	166.0800	0.06
0	0	0	167.0800	0.03
0	0	0	168.0800	0.02
0	0	0	169.0800	0.01
0	0	0	170.0800	0.06
0	0	0	171.0800	0.03
0	0	0	172.0800	0.02
0	0	0	173.0800	0.01
0	0	0	174.0800	0.06
0	0	0	175.0800	0.03
0	0	0	176.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	177.0800	0.01
0	0	0	178.0800	0.06
0	0	0	179.0800	0.03
0	0	0	180.0800	0.02
0	0	0	181.0800	0.01
0	0	0	182.0800	0.06
0	0	0	183.0800	0.03
0	0	0	184.0800	0.02
0	0	0	185.0800	0.01
0	0	0	186.0800	0.06
0	0	0	187.0800	0.03
0	0	0	188.0800	0.02
0	0	0	189.0800	0.06
0	0	0	190.0800	0.04
0	0	0	191.0800	0.02
0	0	0	192.0800	0.01
0	0	0	193.0800	0.06
0	0	0	194.0800	0.03
0	0	0	195.0800	0.02
0	0	0	196.0800	0.01
0	0	0	197.0800	0.06
0	0	0	198.0800	0.03
0	0	0	199.0800	0.02
0	0	0	200.0800	0.01
0	0	0	201.0800	0.06
0	0	0	202.0800	0.03
0	0	0	203.0800	0.02
0	0	0	204.0800	0.01
0	0	0	205.0800	0.06
0	0	0	206.0800	0.03
0	0	0	207.0800	0.02
0	0	0	208.0800	0.01
0	0	0	209.0800	0.06
0	0	0	210.0800	0.03
0	0	0	211.0800	0.02
0	0	0	212.0800	0.01
0	0	0	213.0800	0.06
0	0	0	214.0800	0.03
0	0	0	215.0800	0.02
0	0	0	216.0800	0.01
0	0	0	217.0800	0.06
0	0	0	218.0800	0.03
0	0	0	219.0800	0.02
0	0	0	220.0800	0.01
0	0	0	221.0800	0.05
0	0	0	222.0800	0.03
0	0	0	223.0800	0.02
0	0	0	224.0800	0.06
0	0	0	225.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	226.0800	0.02
0	0	0	227.0800	0.01
0	0	0	228.0800	0.05
0	0	0	229.0800	0.03
0	0	0	230.0800	0.02
0	0	0	231.0800	0.01
0	0	0	232.0800	0.05
0	0	0	233.0800	0.03
0	0	0	234.0800	0.02
0	0	0	235.0800	0.01
0	0	0	236.0800	0.05
0	0	0	237.0800	0.03
0	0	0	238.0800	0.02
0	0	0	239.0800	0.01
0	0	0	240.0800	0.05
0	0	0	241.0800	0.03
0	0	0	242.0800	0.02
0	0	0	243.0800	0.01
0	0	0	244.0800	0.05
0	0	0	245.0800	0.03
0	0	0	246.0800	0.02
0	0	0	247.0800	0.01
0	0	0	248.0800	0.05
0	0	0	249.0800	0.03
0	0	0	250.0800	0.02
0	0	0	251.0800	0.01
0	0	0	252.0800	0.05
0	0	0	253.0800	0.03
0	0	0	254.0800	0.02
0	0	0	255.0800	0.01
0	0	0	256.0800	0.05
0	0	0	257.0800	0.03
0	0	0	258.0800	0.02
0	0	0	259.0800	0.01
0	0	0	260.0800	0.05
0	0	0	261.0800	0.03
0	0	0	262.0800	0.02
0	0	0	263.0800	0.01
0	0	0	264.0800	0.05
0	0	0	265.0800	0.03
0	0	0	266.0800	0.02
0	0	0	267.0800	0.01
0	0	0	268.0800	0.05
0	0	0	269.0800	0.03
0	0	0	270.0800	0.02
0	0	0	271.0800	0.01
0	0	0	272.0800	0.05
0	0	0	273.0800	0.03
0	0	0	274.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	275.0800	0.01
0	0	0	276.0800	0.05
0	0	0	277.0800	0.03
0	0	0	278.0800	0.02
0	0	0	279.0800	0.01
0	0	0	280.0800	0.05
0	0	0	281.0800	0.03
0	0	0	282.0800	0.02
0	0	0	283.0800	0.01
0	0	0	284.0800	0.05
0	0	0	285.0800	0.03
0	0	0	286.0800	0.02
0	0	0	287.0800	0.01
0	0	0	288.0800	0.04
0	0	0	289.0800	0.03
0	0	0	290.0800	0.02
0	0	0	291.0800	0.01
0	0	0	292.0800	0.04
0	0	0	293.0800	0.03
0	0	0	294.0800	0.02
0	0	0	295.0800	0.01
0	0	0	296.0800	0.04
0	0	0	297.0800	0.03
0	0	0	298.0800	0.02
0	0	0	299.0800	0.01
0	0	0	300.0800	0.04
0	0	0	301.0800	0.03
0	0	0	302.0800	0.02
0	0	0	303.0800	0.01
0	0	0	304.0800	0.04
0	0	0	305.0800	0.03
0	0	0	306.0800	0.02
0	0	0	307.0800	0.01
0	0	0	308.0800	0.04
0	0	0	309.0800	0.03
0	0	0	310.0800	0.02
0	0	0	311.0800	0.01
0	0	0	312.0800	0.04
0	0	0	313.0800	0.03
0	0	0	314.0800	0.02
0	0	0	315.0800	0.02
0	0	0	316.0800	0.04
0	0	0	317.0800	0.03
0	0	0	318.0800	0.02
0	0	0	319.0800	0.02
0	0	0	320.0800	0.04
0	0	0	321.0800	0.03
0	0	0	322.0800	0.02
0	0	0	323.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	324.0800	0.04
0	0	0	325.0800	0.03
0	0	0	326.0800	0.02
0	0	0	327.0800	0.02
0	0	0	328.0800	0.04
0	0	0	329.0800	0.03
0	0	0	330.0800	0.02
0	0	0	331.0800	0.02
0	0	0	332.0800	0.04
0	0	0	333.0800	0.03
0	0	0	334.0800	0.02
0	0	0	335.0800	0.02
0	0	0	336.0800	0.03
0	0	0	337.0800	0.03
0	0	0	338.0800	0.02
0	0	0	339.0800	0.02
0	0	0	340.0800	0.03
0	0	0	341.0800	0.03
0	0	0	342.0800	0.02
0	0	0	343.0800	0.02
0	0	0	344.0800	0.01
0	0	0	345.0800	0.03
0	0	0	346.0800	0.03
0	0	0	347.0800	0.02
0	0	0	348.0800	0.02
0	0	0	349.0800	0.03
0	0	0	350.0800	0.03
0	0	0	351.0800	0.02
0	0	0	352.0800	0.02
0	0	0	353.0800	0.03
0	0	0	354.0800	0.03
0	0	0	355.0800	0.02
0	0	0	356.0800	0.02
0	0	0	357.0800	0.03
0	0	0	358.0800	0.03
0	0	0	359.0800	0.02
0	0	0	360.0000	0.02

Comment: Daniels Roadway Control Str# 10

Rating Curve: CS-11

Scenario: Icpr3

Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.01
0	0	0	5.5000	0.01
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.02
0	0	0	8.0000	0.02
0	0	0	8.5000	0.02
0	0	0	9.0000	0.03
0	0	0	9.5000	0.03
0	0	0	10.0000	0.03
0	0	0	10.5000	0.04
0	0	0	11.0000	0.04
0	0	0	11.5000	0.04
0	0	0	12.0000	0.05
0	0	0	12.5000	0.05
0	0	0	13.0000	0.06
0	0	0	13.5000	0.06
0	0	0	14.0000	0.06
0	0	0	14.5000	0.07
0	0	0	15.0000	0.07
0	0	0	15.5000	0.08
0	0	0	16.0000	0.08
0	0	0	16.5000	0.08
0	0	0	17.0000	0.09
0	0	0	17.5000	0.09
0	0	0	18.0000	0.10
0	0	0	18.5000	0.10
0	0	0	19.0000	0.10
0	0	0	19.5000	0.11
0	0	0	20.0000	0.11
0	0	0	20.5000	0.11
0	0	0	21.0000	0.12
0	0	0	21.5000	0.12
0	0	0	22.0000	0.12
0	0	0	22.5000	0.13
0	0	0	23.0000	0.13
0	0	0	23.5000	0.13
0	0	0	24.0000	0.14
0	0	0	24.5000	0.14

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	25.0000	0.15
0	0	0	25.5000	0.16
0	0	0	26.0000	0.16
0	0	0	26.5000	0.17
0	0	0	27.0000	0.18
0	0	0	27.5000	0.18
0	0	0	28.0000	0.19
0	0	0	28.5000	0.19
0	0	0	29.0000	0.20
0	0	0	29.5000	0.20
0	0	0	30.0000	0.21
0	0	0	30.5000	0.22
0	0	0	31.0000	0.22
0	0	0	31.5000	0.22
0	0	0	32.0000	0.23
0	0	0	32.5000	0.23
0	0	0	33.0000	0.24
0	0	0	33.5000	0.24
0	0	0	34.0000	0.25
0	0	0	34.5000	0.25
0	0	0	35.0000	0.25
0	0	0	35.5000	0.26
0	0	0	36.0000	0.26
0	0	0	36.5000	0.26
0	0	0	37.0000	0.27
0	0	0	37.5000	0.27
0	0	0	38.0000	0.27
0	0	0	38.5000	0.28
0	0	0	39.0000	0.28
0	0	0	39.5000	0.28
0	0	0	40.0000	0.28
0	0	0	40.5000	0.28
0	0	0	41.0000	0.29
0	0	0	41.5000	0.29
0	0	0	42.0000	0.29
0	0	0	42.5000	0.29
0	0	0	43.0000	0.29
0	0	0	43.5000	0.29
0	0	0	44.0000	0.29
0	0	0	44.5000	0.30
0	0	0	45.0000	0.30
0	0	0	45.5000	0.30
0	0	0	46.0000	0.30
0	0	0	46.5000	0.30
0	0	0	47.0000	0.30
0	0	0	47.5000	0.30
0	0	0	48.0000	0.30
0	0	0	48.5000	0.30
0	0	0	48.7500	0.31

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	49.0000	0.30
0	0	0	49.2500	0.31
0	0	0	49.5000	0.31
0	0	0	49.7500	0.31
0	0	0	50.0000	0.31
0	0	0	50.2500	0.31
0	0	0	50.5000	0.31
0	0	0	50.7500	0.32
0	0	0	51.0000	0.32
0	0	0	51.2500	0.33
0	0	0	51.5000	0.33
0	0	0	51.7500	0.33
0	0	0	52.0000	0.34
0	0	0	52.2500	0.34
0	0	0	52.5000	0.35
0	0	0	52.7500	0.36
0	0	0	53.0000	0.36
0	0	0	53.2500	0.37
0	0	0	53.5000	0.39
0	0	0	53.7500	0.39
0	0	0	54.0000	0.41
0	0	0	54.2500	0.42
0	0	0	54.5000	0.43
0	0	0	54.7500	0.45
0	0	0	55.0000	0.46
0	0	0	55.2500	0.48
0	0	0	55.4200	0.49
0	0	0	55.5800	0.50
0	0	0	55.7500	0.51
0	0	0	55.9200	0.52
0	0	0	56.0800	0.54
0	0	0	56.2500	0.55
0	0	0	56.4200	0.56
0	0	0	56.5800	0.58
0	0	0	56.7500	0.59
0	0	0	56.9200	0.60
0	0	0	57.0800	0.62
0	0	0	57.2500	0.63
0	0	0	57.4200	0.65
0	0	0	57.5800	0.68
0	0	0	57.7500	0.69
0	0	0	57.9200	0.71
0	0	0	58.0800	0.73
0	0	0	58.2500	0.76
0	0	0	58.4200	0.78
0	0	0	58.5800	0.80
0	0	0	58.7500	0.84
0	0	0	58.9200	0.87
0	0	0	59.0800	0.91

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	59.2500	0.97
0	0	0	59.4200	1.03
0	0	0	59.5800	1.16
0	0	0	59.7500	3.91
0	0	0	59.9200	8.95
0	0	0	60.0800	13.07
0	0	0	60.2500	12.66
0	0	0	60.4200	10.91
0	0	0	60.5800	9.40
0	0	0	60.7500	7.92
0	0	0	60.9200	6.70
0	0	0	61.0800	5.78
0	0	0	61.3300	4.65
0	0	0	61.5800	3.86
0	0	0	61.8300	3.27
0	0	0	62.0800	2.83
0	0	0	62.3300	2.43
0	0	0	62.5800	2.12
0	0	0	62.8300	1.87
0	0	0	63.0800	1.68
0	0	0	63.3300	1.52
0	0	0	63.5800	1.42
0	0	0	63.8300	1.31
0	0	0	64.0800	1.23
0	0	0	64.3300	1.10
0	0	0	64.5800	0.97
0	0	0	64.8300	0.86
0	0	0	65.0800	0.76
0	0	0	65.3300	0.67
0	0	0	65.5800	0.58
0	0	0	65.8300	0.60
0	0	0	66.0800	0.52
0	0	0	66.3300	0.43
0	0	0	66.5800	0.50
0	0	0	66.8300	0.40
0	0	0	67.0800	0.49
0	0	0	67.3300	0.35
0	0	0	67.5800	0.48
0	0	0	67.8300	0.56
0	0	0	68.0800	0.37
0	0	0	68.3300	0.42
0	0	0	68.5800	0.44
0	0	0	68.8300	0.10
0	0	0	69.0800	0.29
0	0	0	69.3300	0.38
0	0	0	69.5800	0.42
0	0	0	69.8300	0.05
0	0	0	70.0800	0.29
0	0	0	70.3300	0.39

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	70.5800	0.43
0	0	0	70.8300	0.03
0	0	0	71.0800	0.29
0	0	0	71.3300	0.40
0	0	0	71.5800	0.44
0	0	0	71.8300	0.45
0	0	0	72.0800	0.44
0	0	0	73.0800	-0.17
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.18
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.17
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.17
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.17
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.17
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.16
0	0	0	98.0800	0.01
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.16
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.15
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.13
0	0	0	109.0800	0.02
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.11
0	0	0	113.0800	0.04
0	0	0	114.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	115.0800	0.00
0	0	0	116.0800	0.09
0	0	0	117.0800	0.04
0	0	0	118.0800	0.02
0	0	0	119.0800	0.01
0	0	0	120.0800	0.08
0	0	0	121.0800	0.05
0	0	0	122.0800	0.02
0	0	0	123.0800	0.09
0	0	0	124.0800	0.05
0	0	0	125.0800	0.03
0	0	0	126.0800	0.01
0	0	0	127.0800	0.09
0	0	0	128.0800	0.05
0	0	0	129.0800	0.03
0	0	0	130.0800	0.01
0	0	0	131.0800	0.09
0	0	0	132.0800	0.05
0	0	0	133.0800	0.02
0	0	0	134.0800	0.01
0	0	0	135.0800	0.08
0	0	0	136.0800	0.05
0	0	0	137.0800	0.02
0	0	0	138.0800	0.01
0	0	0	139.0800	0.08
0	0	0	140.0800	0.05
0	0	0	141.0800	0.02
0	0	0	142.0800	0.01
0	0	0	143.0800	0.08
0	0	0	144.0800	0.05
0	0	0	145.0800	0.02
0	0	0	146.0800	0.01
0	0	0	147.0800	0.08
0	0	0	148.0800	0.05
0	0	0	149.0800	0.03
0	0	0	150.0800	0.01
0	0	0	151.0800	0.08
0	0	0	152.0800	0.05
0	0	0	153.0800	0.03
0	0	0	154.0800	0.09
0	0	0	155.0800	0.05
0	0	0	156.0800	0.03
0	0	0	157.0800	0.01
0	0	0	158.0800	0.08
0	0	0	159.0800	0.05
0	0	0	160.0800	0.03
0	0	0	161.0800	0.01
0	0	0	162.0800	0.08
0	0	0	163.0800	0.05

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	164.0800	0.03
0	0	0	165.0800	0.01
0	0	0	166.0800	0.08
0	0	0	167.0800	0.05
0	0	0	168.0800	0.03
0	0	0	169.0800	0.01
0	0	0	170.0800	0.08
0	0	0	171.0800	0.05
0	0	0	172.0800	0.03
0	0	0	173.0800	0.01
0	0	0	174.0800	0.08
0	0	0	175.0800	0.05
0	0	0	176.0800	0.03
0	0	0	177.0800	0.01
0	0	0	178.0800	0.08
0	0	0	179.0800	0.05
0	0	0	180.0800	0.03
0	0	0	181.0800	0.01
0	0	0	182.0800	0.08
0	0	0	183.0800	0.05
0	0	0	184.0800	0.03
0	0	0	185.0800	0.01
0	0	0	186.0800	0.08
0	0	0	187.0800	0.05
0	0	0	188.0800	0.03
0	0	0	189.0800	0.08
0	0	0	190.0800	0.05
0	0	0	191.0800	0.03
0	0	0	192.0800	0.02
0	0	0	193.0800	0.08
0	0	0	194.0800	0.05
0	0	0	195.0800	0.03
0	0	0	196.0800	0.01
0	0	0	197.0800	0.08
0	0	0	198.0800	0.04
0	0	0	199.0800	0.03
0	0	0	200.0800	0.01
0	0	0	201.0800	0.08
0	0	0	202.0800	0.04
0	0	0	203.0800	0.03
0	0	0	204.0800	0.01
0	0	0	205.0800	0.07
0	0	0	206.0800	0.04
0	0	0	207.0800	0.03
0	0	0	208.0800	0.01
0	0	0	209.0800	0.07
0	0	0	210.0800	0.04
0	0	0	211.0800	0.03
0	0	0	212.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	213.0800	0.07
0	0	0	214.0800	0.04
0	0	0	215.0800	0.03
0	0	0	216.0800	0.01
0	0	0	217.0800	0.07
0	0	0	218.0800	0.04
0	0	0	219.0800	0.03
0	0	0	220.0800	0.01
0	0	0	221.0800	0.07
0	0	0	222.0800	0.04
0	0	0	223.0800	0.03
0	0	0	224.0800	0.08
0	0	0	225.0800	0.05
0	0	0	226.0800	0.03
0	0	0	227.0800	0.02
0	0	0	228.0800	0.07
0	0	0	229.0800	0.04
0	0	0	230.0800	0.03
0	0	0	231.0800	0.02
0	0	0	232.0800	0.07
0	0	0	233.0800	0.04
0	0	0	234.0800	0.03
0	0	0	235.0800	0.02
0	0	0	236.0800	0.07
0	0	0	237.0800	0.04
0	0	0	238.0800	0.03
0	0	0	239.0800	0.02
0	0	0	240.0800	0.07
0	0	0	241.0800	0.04
0	0	0	242.0800	0.03
0	0	0	243.0800	0.02
0	0	0	244.0800	0.07
0	0	0	245.0800	0.04
0	0	0	246.0800	0.03
0	0	0	247.0800	0.02
0	0	0	248.0800	0.07
0	0	0	249.0800	0.04
0	0	0	250.0800	0.03
0	0	0	251.0800	0.02
0	0	0	252.0800	0.07
0	0	0	253.0800	0.04
0	0	0	254.0800	0.03
0	0	0	255.0800	0.02
0	0	0	256.0800	0.07
0	0	0	257.0800	0.04
0	0	0	258.0800	0.03
0	0	0	259.0800	0.02
0	0	0	260.0800	0.07
0	0	0	261.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	262.0800	0.03
0	0	0	263.0800	0.02
0	0	0	264.0800	0.06
0	0	0	265.0800	0.04
0	0	0	266.0800	0.03
0	0	0	267.0800	0.02
0	0	0	268.0800	0.06
0	0	0	269.0800	0.04
0	0	0	270.0800	0.03
0	0	0	271.0800	0.02
0	0	0	272.0800	0.06
0	0	0	273.0800	0.04
0	0	0	274.0800	0.03
0	0	0	275.0800	0.02
0	0	0	276.0800	0.06
0	0	0	277.0800	0.04
0	0	0	278.0800	0.03
0	0	0	279.0800	0.02
0	0	0	280.0800	0.06
0	0	0	281.0800	0.04
0	0	0	282.0800	0.03
0	0	0	283.0800	0.02
0	0	0	284.0800	0.06
0	0	0	285.0800	0.04
0	0	0	286.0800	0.03
0	0	0	287.0800	0.02
0	0	0	288.0800	0.06
0	0	0	289.0800	0.04
0	0	0	290.0800	0.03
0	0	0	291.0800	0.02
0	0	0	292.0800	0.06
0	0	0	293.0800	0.04
0	0	0	294.0800	0.03
0	0	0	295.0800	0.02
0	0	0	296.0800	0.06
0	0	0	297.0800	0.04
0	0	0	298.0800	0.03
0	0	0	299.0800	0.02
0	0	0	300.0800	0.06
0	0	0	301.0800	0.04
0	0	0	302.0800	0.03
0	0	0	303.0800	0.02
0	0	0	304.0800	0.06
0	0	0	305.0800	0.04
0	0	0	306.0800	0.03
0	0	0	307.0800	0.02
0	0	0	308.0800	0.05
0	0	0	309.0800	0.04
0	0	0	310.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	311.0800	0.02
0	0	0	312.0800	0.05
0	0	0	313.0800	0.04
0	0	0	314.0800	0.03
0	0	0	315.0800	0.02
0	0	0	316.0800	0.05
0	0	0	317.0800	0.04
0	0	0	318.0800	0.03
0	0	0	319.0800	0.02
0	0	0	320.0800	0.05
0	0	0	321.0800	0.04
0	0	0	322.0800	0.03
0	0	0	323.0800	0.02
0	0	0	324.0800	0.05
0	0	0	325.0800	0.04
0	0	0	326.0800	0.03
0	0	0	327.0800	0.02
0	0	0	328.0800	0.05
0	0	0	329.0800	0.04
0	0	0	330.0800	0.03
0	0	0	331.0800	0.02
0	0	0	332.0800	0.05
0	0	0	333.0800	0.04
0	0	0	334.0800	0.03
0	0	0	335.0800	0.02
0	0	0	336.0800	0.05
0	0	0	337.0800	0.04
0	0	0	338.0800	0.03
0	0	0	339.0800	0.02
0	0	0	340.0800	0.04
0	0	0	341.0800	0.04
0	0	0	342.0800	0.03
0	0	0	343.0800	0.02
0	0	0	344.0800	0.02
0	0	0	345.0800	0.04
0	0	0	346.0800	0.03
0	0	0	347.0800	0.03
0	0	0	348.0800	0.02
0	0	0	349.0800	0.04
0	0	0	350.0800	0.03
0	0	0	351.0800	0.03
0	0	0	352.0800	0.02
0	0	0	353.0800	0.04
0	0	0	354.0800	0.03
0	0	0	355.0800	0.03
0	0	0	356.0800	0.02
0	0	0	357.0800	0.04
0	0	0	358.0800	0.03
0	0	0	359.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	360.0000	0.03

Comment: Daniels Roadway Control Str# 11

Rating Curve: CS-12

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.02
0	0	0	11.0000	0.02
0	0	0	11.5000	0.03
0	0	0	12.0000	0.03
0	0	0	12.5000	0.03
0	0	0	13.0000	0.03
0	0	0	13.5000	0.03
0	0	0	14.0000	0.04
0	0	0	14.5000	0.04
0	0	0	15.0000	0.04
0	0	0	15.5000	0.04
0	0	0	16.0000	0.05
0	0	0	16.5000	0.05
0	0	0	17.0000	0.05
0	0	0	17.5000	0.05
0	0	0	18.0000	0.05

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	18.5000	0.06
0	0	0	19.0000	0.06
0	0	0	19.5000	0.06
0	0	0	20.0000	0.06
0	0	0	20.5000	0.07
0	0	0	21.0000	0.07
0	0	0	21.5000	0.07
0	0	0	22.0000	0.07
0	0	0	22.5000	0.07
0	0	0	23.0000	0.07
0	0	0	23.5000	0.08
0	0	0	24.0000	0.08
0	0	0	24.5000	0.08
0	0	0	25.0000	0.09
0	0	0	25.5000	0.09
0	0	0	26.0000	0.09
0	0	0	26.5000	0.10
0	0	0	27.0000	0.10
0	0	0	27.5000	0.10
0	0	0	28.0000	0.11
0	0	0	28.5000	0.11
0	0	0	29.0000	0.11
0	0	0	29.5000	0.12
0	0	0	30.0000	0.12
0	0	0	30.5000	0.12
0	0	0	31.0000	0.13
0	0	0	31.5000	0.13
0	0	0	32.0000	0.13
0	0	0	32.5000	0.13
0	0	0	33.0000	0.14
0	0	0	33.5000	0.14
0	0	0	34.0000	0.14
0	0	0	34.5000	0.14
0	0	0	35.0000	0.14
0	0	0	35.5000	0.15
0	0	0	36.0000	0.15
0	0	0	36.5000	0.15
0	0	0	37.0000	0.15
0	0	0	37.5000	0.15
0	0	0	38.0000	0.16
0	0	0	38.5000	0.16
0	0	0	39.0000	0.16
0	0	0	39.5000	0.16
0	0	0	40.0000	0.16
0	0	0	40.5000	0.16
0	0	0	41.0000	0.16
0	0	0	41.5000	0.16
0	0	0	42.0000	0.16
0	0	0	42.5000	0.17

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	43.0000	0.17
0	0	0	43.5000	0.17
0	0	0	44.0000	0.17
0	0	0	44.5000	0.17
0	0	0	45.0000	0.17
0	0	0	45.5000	0.17
0	0	0	46.0000	0.17
0	0	0	46.5000	0.17
0	0	0	47.0000	0.17
0	0	0	47.5000	0.17
0	0	0	48.0000	0.17
0	0	0	48.5000	0.17
0	0	0	48.7500	0.17
0	0	0	49.0000	0.17
0	0	0	49.2500	0.17
0	0	0	49.5000	0.18
0	0	0	49.7500	0.18
0	0	0	50.0000	0.18
0	0	0	50.2500	0.18
0	0	0	50.5000	0.18
0	0	0	50.7500	0.18
0	0	0	51.0000	0.18
0	0	0	51.2500	0.19
0	0	0	51.5000	0.19
0	0	0	51.7500	0.19
0	0	0	52.0000	0.19
0	0	0	52.2500	0.20
0	0	0	52.5000	0.20
0	0	0	52.7500	0.20
0	0	0	53.0000	0.21
0	0	0	53.2500	0.21
0	0	0	53.5000	0.22
0	0	0	53.7500	0.23
0	0	0	54.0000	0.23
0	0	0	54.2500	0.24
0	0	0	54.5000	0.25
0	0	0	54.7500	0.26
0	0	0	55.0000	0.26
0	0	0	55.2500	0.27
0	0	0	55.4200	0.28
0	0	0	55.5800	0.29
0	0	0	55.7500	0.29
0	0	0	55.9200	0.30
0	0	0	56.0800	0.31
0	0	0	56.2500	0.31
0	0	0	56.4200	0.32
0	0	0	56.5800	0.33
0	0	0	56.7500	0.34
0	0	0	56.9200	0.35

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	57.0800	0.36
0	0	0	57.2500	0.36
0	0	0	57.4200	0.37
0	0	0	57.5800	0.39
0	0	0	57.7500	0.40
0	0	0	57.9200	0.41
0	0	0	58.0800	0.42
0	0	0	58.2500	0.43
0	0	0	58.4200	0.45
0	0	0	58.5800	0.46
0	0	0	58.7500	0.48
0	0	0	58.9200	0.50
0	0	0	59.0800	0.52
0	0	0	59.2500	0.55
0	0	0	59.4200	0.59
0	0	0	59.5800	0.66
0	0	0	59.7500	2.24
0	0	0	59.9200	5.12
0	0	0	60.0800	7.47
0	0	0	60.2500	7.24
0	0	0	60.4200	6.24
0	0	0	60.5800	5.37
0	0	0	60.7500	4.53
0	0	0	60.9200	3.83
0	0	0	61.0800	3.30
0	0	0	61.3300	2.66
0	0	0	61.5800	2.21
0	0	0	61.8300	1.87
0	0	0	62.0800	1.62
0	0	0	62.3300	1.39
0	0	0	62.5800	1.21
0	0	0	62.8300	1.07
0	0	0	63.0800	0.96
0	0	0	63.3300	0.87
0	0	0	63.5800	0.81
0	0	0	63.8300	0.75
0	0	0	64.0800	0.70
0	0	0	64.3300	0.63
0	0	0	64.5800	0.55
0	0	0	64.8300	0.49
0	0	0	65.0800	0.44
0	0	0	65.3300	0.38
0	0	0	65.5800	0.33
0	0	0	65.8300	0.35
0	0	0	66.0800	0.30
0	0	0	66.3300	0.25
0	0	0	66.5800	0.29
0	0	0	66.8300	0.23
0	0	0	67.0800	0.28

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	67.3300	0.20
0	0	0	67.5800	0.27
0	0	0	67.8300	0.32
0	0	0	68.0800	0.21
0	0	0	68.3300	0.24
0	0	0	68.5800	0.25
0	0	0	68.8300	0.06
0	0	0	69.0800	0.17
0	0	0	69.3300	0.22
0	0	0	69.5800	0.24
0	0	0	69.8300	0.03
0	0	0	70.0800	0.16
0	0	0	70.3300	0.22
0	0	0	70.5800	0.25
0	0	0	70.8300	0.02
0	0	0	71.0800	0.17
0	0	0	71.3300	0.23
0	0	0	71.5800	0.25
0	0	0	71.8300	0.26
0	0	0	72.0800	0.25
0	0	0	73.0800	-0.10
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.10
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.10
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.10
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.10
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.10
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.09
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.09

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.08
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.08
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.06
0	0	0	113.0800	0.02
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.05
0	0	0	117.0800	0.02
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.05
0	0	0	121.0800	0.03
0	0	0	122.0800	0.01
0	0	0	123.0800	0.05
0	0	0	124.0800	0.03
0	0	0	125.0800	0.02
0	0	0	126.0800	0.01
0	0	0	127.0800	0.05
0	0	0	128.0800	0.03
0	0	0	129.0800	0.01
0	0	0	130.0800	0.01
0	0	0	131.0800	0.05
0	0	0	132.0800	0.03
0	0	0	133.0800	0.01
0	0	0	134.0800	0.01
0	0	0	135.0800	0.05
0	0	0	136.0800	0.03
0	0	0	137.0800	0.01
0	0	0	138.0800	0.01
0	0	0	139.0800	0.05
0	0	0	140.0800	0.03
0	0	0	141.0800	0.01
0	0	0	142.0800	0.01
0	0	0	143.0800	0.05
0	0	0	144.0800	0.03
0	0	0	145.0800	0.01
0	0	0	146.0800	0.01
0	0	0	147.0800	0.05
0	0	0	148.0800	0.03
0	0	0	149.0800	0.01
0	0	0	150.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	151.0800	0.05
0	0	0	152.0800	0.03
0	0	0	153.0800	0.01
0	0	0	154.0800	0.05
0	0	0	155.0800	0.03
0	0	0	156.0800	0.02
0	0	0	157.0800	0.01
0	0	0	158.0800	0.05
0	0	0	159.0800	0.03
0	0	0	160.0800	0.01
0	0	0	161.0800	0.01
0	0	0	162.0800	0.05
0	0	0	163.0800	0.03
0	0	0	164.0800	0.01
0	0	0	165.0800	0.01
0	0	0	166.0800	0.05
0	0	0	167.0800	0.03
0	0	0	168.0800	0.01
0	0	0	169.0800	0.01
0	0	0	170.0800	0.05
0	0	0	171.0800	0.03
0	0	0	172.0800	0.01
0	0	0	173.0800	0.01
0	0	0	174.0800	0.05
0	0	0	175.0800	0.03
0	0	0	176.0800	0.01
0	0	0	177.0800	0.01
0	0	0	178.0800	0.05
0	0	0	179.0800	0.03
0	0	0	180.0800	0.01
0	0	0	181.0800	0.01
0	0	0	182.0800	0.04
0	0	0	183.0800	0.03
0	0	0	184.0800	0.01
0	0	0	185.0800	0.01
0	0	0	186.0800	0.04
0	0	0	187.0800	0.03
0	0	0	188.0800	0.01
0	0	0	189.0800	0.05
0	0	0	190.0800	0.03
0	0	0	191.0800	0.02
0	0	0	192.0800	0.01
0	0	0	193.0800	0.04
0	0	0	194.0800	0.03
0	0	0	195.0800	0.01
0	0	0	196.0800	0.01
0	0	0	197.0800	0.04
0	0	0	198.0800	0.03
0	0	0	199.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	200.0800	0.01
0	0	0	201.0800	0.04
0	0	0	202.0800	0.03
0	0	0	203.0800	0.01
0	0	0	204.0800	0.01
0	0	0	205.0800	0.04
0	0	0	206.0800	0.03
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.04
0	0	0	210.0800	0.03
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.04
0	0	0	214.0800	0.03
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.04
0	0	0	218.0800	0.03
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01
0	0	0	221.0800	0.04
0	0	0	222.0800	0.03
0	0	0	223.0800	0.01
0	0	0	224.0800	0.04
0	0	0	225.0800	0.03
0	0	0	226.0800	0.02
0	0	0	227.0800	0.01
0	0	0	228.0800	0.04
0	0	0	229.0800	0.03
0	0	0	230.0800	0.02
0	0	0	231.0800	0.01
0	0	0	232.0800	0.04
0	0	0	233.0800	0.03
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.04
0	0	0	237.0800	0.03
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.04
0	0	0	241.0800	0.03
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01
0	0	0	244.0800	0.04
0	0	0	245.0800	0.02
0	0	0	246.0800	0.02
0	0	0	247.0800	0.01
0	0	0	248.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	249.0800	0.02
0	0	0	250.0800	0.02
0	0	0	251.0800	0.01
0	0	0	252.0800	0.04
0	0	0	253.0800	0.02
0	0	0	254.0800	0.02
0	0	0	255.0800	0.01
0	0	0	256.0800	0.04
0	0	0	257.0800	0.02
0	0	0	258.0800	0.02
0	0	0	259.0800	0.01
0	0	0	260.0800	0.04
0	0	0	261.0800	0.02
0	0	0	262.0800	0.02
0	0	0	263.0800	0.01
0	0	0	264.0800	0.04
0	0	0	265.0800	0.02
0	0	0	266.0800	0.02
0	0	0	267.0800	0.01
0	0	0	268.0800	0.04
0	0	0	269.0800	0.02
0	0	0	270.0800	0.02
0	0	0	271.0800	0.01
0	0	0	272.0800	0.04
0	0	0	273.0800	0.02
0	0	0	274.0800	0.02
0	0	0	275.0800	0.01
0	0	0	276.0800	0.04
0	0	0	277.0800	0.02
0	0	0	278.0800	0.02
0	0	0	279.0800	0.01
0	0	0	280.0800	0.03
0	0	0	281.0800	0.02
0	0	0	282.0800	0.02
0	0	0	283.0800	0.01
0	0	0	284.0800	0.03
0	0	0	285.0800	0.02
0	0	0	286.0800	0.02
0	0	0	287.0800	0.01
0	0	0	288.0800	0.03
0	0	0	289.0800	0.02
0	0	0	290.0800	0.02
0	0	0	291.0800	0.01
0	0	0	292.0800	0.03
0	0	0	293.0800	0.02
0	0	0	294.0800	0.02
0	0	0	295.0800	0.01
0	0	0	296.0800	0.03
0	0	0	297.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	298.0800	0.02
0	0	0	299.0800	0.01
0	0	0	300.0800	0.03
0	0	0	301.0800	0.02
0	0	0	302.0800	0.02
0	0	0	303.0800	0.01
0	0	0	304.0800	0.03
0	0	0	305.0800	0.02
0	0	0	306.0800	0.02
0	0	0	307.0800	0.01
0	0	0	308.0800	0.03
0	0	0	309.0800	0.02
0	0	0	310.0800	0.02
0	0	0	311.0800	0.01
0	0	0	312.0800	0.03
0	0	0	313.0800	0.02
0	0	0	314.0800	0.02
0	0	0	315.0800	0.01
0	0	0	316.0800	0.03
0	0	0	317.0800	0.02
0	0	0	318.0800	0.02
0	0	0	319.0800	0.01
0	0	0	320.0800	0.03
0	0	0	321.0800	0.02
0	0	0	322.0800	0.02
0	0	0	323.0800	0.01
0	0	0	324.0800	0.03
0	0	0	325.0800	0.02
0	0	0	326.0800	0.02
0	0	0	327.0800	0.01
0	0	0	328.0800	0.03
0	0	0	329.0800	0.02
0	0	0	330.0800	0.02
0	0	0	331.0800	0.01
0	0	0	332.0800	0.03
0	0	0	333.0800	0.02
0	0	0	334.0800	0.02
0	0	0	335.0800	0.01
0	0	0	336.0800	0.03
0	0	0	337.0800	0.02
0	0	0	338.0800	0.02
0	0	0	339.0800	0.01
0	0	0	340.0800	0.03
0	0	0	341.0800	0.02
0	0	0	342.0800	0.02
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.02
0	0	0	346.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	347.0800	0.02
0	0	0	348.0800	0.01
0	0	0	349.0800	0.02
0	0	0	350.0800	0.02
0	0	0	351.0800	0.02
0	0	0	352.0800	0.01
0	0	0	353.0800	0.02
0	0	0	354.0800	0.02
0	0	0	355.0800	0.02
0	0	0	356.0800	0.01
0	0	0	357.0800	0.02
0	0	0	358.0800	0.02
0	0	0	359.0800	0.02
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 12

Rating Curve: CS-13

Scenario: Icpr3

Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.02
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.02
0	0	0	11.0000	0.03
0	0	0	11.5000	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	12.0000	0.03
0	0	0	12.5000	0.03
0	0	0	13.0000	0.04
0	0	0	13.5000	0.04
0	0	0	14.0000	0.04
0	0	0	14.5000	0.04
0	0	0	15.0000	0.05
0	0	0	15.5000	0.05
0	0	0	16.0000	0.05
0	0	0	16.5000	0.05
0	0	0	17.0000	0.06
0	0	0	17.5000	0.06
0	0	0	18.0000	0.06
0	0	0	18.5000	0.06
0	0	0	19.0000	0.07
0	0	0	19.5000	0.07
0	0	0	20.0000	0.07
0	0	0	20.5000	0.07
0	0	0	21.0000	0.07
0	0	0	21.5000	0.08
0	0	0	22.0000	0.08
0	0	0	22.5000	0.08
0	0	0	23.0000	0.08
0	0	0	23.5000	0.09
0	0	0	24.0000	0.09
0	0	0	24.5000	0.09
0	0	0	25.0000	0.10
0	0	0	25.5000	0.10
0	0	0	26.0000	0.10
0	0	0	26.5000	0.11
0	0	0	27.0000	0.11
0	0	0	27.5000	0.12
0	0	0	28.0000	0.12
0	0	0	28.5000	0.12
0	0	0	29.0000	0.13
0	0	0	29.5000	0.13
0	0	0	30.0000	0.13
0	0	0	30.5000	0.14
0	0	0	31.0000	0.14
0	0	0	31.5000	0.14
0	0	0	32.0000	0.15
0	0	0	32.5000	0.15
0	0	0	33.0000	0.15
0	0	0	33.5000	0.15
0	0	0	34.0000	0.16
0	0	0	34.5000	0.16
0	0	0	35.0000	0.16
0	0	0	35.5000	0.16
0	0	0	36.0000	0.17

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	36.5000	0.17
0	0	0	37.0000	0.17
0	0	0	37.5000	0.17
0	0	0	38.0000	0.17
0	0	0	38.5000	0.18
0	0	0	39.0000	0.18
0	0	0	39.5000	0.18
0	0	0	40.0000	0.18
0	0	0	40.5000	0.18
0	0	0	41.0000	0.18
0	0	0	41.5000	0.18
0	0	0	42.0000	0.18
0	0	0	42.5000	0.19
0	0	0	43.0000	0.19
0	0	0	43.5000	0.19
0	0	0	44.0000	0.19
0	0	0	44.5000	0.19
0	0	0	45.0000	0.19
0	0	0	45.5000	0.19
0	0	0	46.0000	0.19
0	0	0	46.5000	0.19
0	0	0	47.0000	0.19
0	0	0	47.5000	0.19
0	0	0	48.0000	0.19
0	0	0	48.5000	0.19
0	0	0	48.7500	0.19
0	0	0	49.0000	0.19
0	0	0	49.2500	0.19
0	0	0	49.5000	0.20
0	0	0	49.7500	0.20
0	0	0	50.0000	0.20
0	0	0	50.2500	0.20
0	0	0	50.5000	0.20
0	0	0	50.7500	0.20
0	0	0	51.0000	0.21
0	0	0	51.2500	0.21
0	0	0	51.5000	0.21
0	0	0	51.7500	0.21
0	0	0	52.0000	0.21
0	0	0	52.2500	0.22
0	0	0	52.5000	0.22
0	0	0	52.7500	0.23
0	0	0	53.0000	0.23
0	0	0	53.2500	0.24
0	0	0	53.5000	0.25
0	0	0	53.7500	0.25
0	0	0	54.0000	0.26
0	0	0	54.2500	0.27
0	0	0	54.5000	0.27

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	54.7500	0.29
0	0	0	55.0000	0.30
0	0	0	55.2500	0.30
0	0	0	55.4200	0.31
0	0	0	55.5800	0.32
0	0	0	55.7500	0.33
0	0	0	55.9200	0.33
0	0	0	56.0800	0.34
0	0	0	56.2500	0.35
0	0	0	56.4200	0.36
0	0	0	56.5800	0.37
0	0	0	56.7500	0.38
0	0	0	56.9200	0.39
0	0	0	57.0800	0.40
0	0	0	57.2500	0.40
0	0	0	57.4200	0.42
0	0	0	57.5800	0.43
0	0	0	57.7500	0.44
0	0	0	57.9200	0.46
0	0	0	58.0800	0.47
0	0	0	58.2500	0.48
0	0	0	58.4200	0.50
0	0	0	58.5800	0.51
0	0	0	58.7500	0.53
0	0	0	58.9200	0.56
0	0	0	59.0800	0.58
0	0	0	59.2500	0.62
0	0	0	59.4200	0.66
0	0	0	59.5800	0.74
0	0	0	59.7500	2.49
0	0	0	59.9200	5.71
0	0	0	60.0800	8.33
0	0	0	60.2500	8.07
0	0	0	60.4200	6.95
0	0	0	60.5800	5.99
0	0	0	60.7500	5.05
0	0	0	60.9200	4.27
0	0	0	61.0800	3.68
0	0	0	61.3300	2.96
0	0	0	61.5800	2.46
0	0	0	61.8300	2.09
0	0	0	62.0800	1.80
0	0	0	62.3300	1.55
0	0	0	62.5800	1.35
0	0	0	62.8300	1.19
0	0	0	63.0800	1.07
0	0	0	63.3300	0.97
0	0	0	63.5800	0.90
0	0	0	63.8300	0.83

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	64.0800	0.79
0	0	0	64.3300	0.70
0	0	0	64.5800	0.62
0	0	0	64.8300	0.55
0	0	0	65.0800	0.49
0	0	0	65.3300	0.43
0	0	0	65.5800	0.37
0	0	0	65.8300	0.38
0	0	0	66.0800	0.33
0	0	0	66.3300	0.27
0	0	0	66.5800	0.32
0	0	0	66.8300	0.25
0	0	0	67.0800	0.31
0	0	0	67.3300	0.23
0	0	0	67.5800	0.31
0	0	0	67.8300	0.36
0	0	0	68.0800	0.23
0	0	0	68.3300	0.27
0	0	0	68.5800	0.28
0	0	0	68.8300	0.06
0	0	0	69.0800	0.19
0	0	0	69.3300	0.24
0	0	0	69.5800	0.27
0	0	0	69.8300	0.03
0	0	0	70.0800	0.18
0	0	0	70.3300	0.25
0	0	0	70.5800	0.27
0	0	0	70.8300	0.02
0	0	0	71.0800	0.19
0	0	0	71.3300	0.25
0	0	0	71.5800	0.28
0	0	0	71.8300	0.29
0	0	0	72.0800	0.28
0	0	0	73.0800	-0.11
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.11
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.11
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.11
0	0	0	88.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	89.0800	0.00
0	0	0	90.0800	0.11
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.11
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.10
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.10
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.09
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.08
0	0	0	109.0800	0.02
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.07
0	0	0	113.0800	0.02
0	0	0	114.0800	0.01
0	0	0	115.0800	0.00
0	0	0	116.0800	0.06
0	0	0	117.0800	0.03
0	0	0	118.0800	0.01
0	0	0	119.0800	0.01
0	0	0	120.0800	0.05
0	0	0	121.0800	0.03
0	0	0	122.0800	0.02
0	0	0	123.0800	0.06
0	0	0	124.0800	0.03
0	0	0	125.0800	0.02
0	0	0	126.0800	0.01
0	0	0	127.0800	0.06
0	0	0	128.0800	0.03
0	0	0	129.0800	0.02
0	0	0	130.0800	0.01
0	0	0	131.0800	0.05
0	0	0	132.0800	0.03
0	0	0	133.0800	0.02
0	0	0	134.0800	0.01
0	0	0	135.0800	0.05
0	0	0	136.0800	0.03
0	0	0	137.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	138.0800	0.01
0	0	0	139.0800	0.05
0	0	0	140.0800	0.03
0	0	0	141.0800	0.02
0	0	0	142.0800	0.01
0	0	0	143.0800	0.05
0	0	0	144.0800	0.03
0	0	0	145.0800	0.02
0	0	0	146.0800	0.01
0	0	0	147.0800	0.05
0	0	0	148.0800	0.03
0	0	0	149.0800	0.02
0	0	0	150.0800	0.01
0	0	0	151.0800	0.05
0	0	0	152.0800	0.03
0	0	0	153.0800	0.02
0	0	0	154.0800	0.06
0	0	0	155.0800	0.03
0	0	0	156.0800	0.02
0	0	0	157.0800	0.01
0	0	0	158.0800	0.05
0	0	0	159.0800	0.03
0	0	0	160.0800	0.02
0	0	0	161.0800	0.01
0	0	0	162.0800	0.05
0	0	0	163.0800	0.03
0	0	0	164.0800	0.02
0	0	0	165.0800	0.01
0	0	0	166.0800	0.05
0	0	0	167.0800	0.03
0	0	0	168.0800	0.02
0	0	0	169.0800	0.01
0	0	0	170.0800	0.05
0	0	0	171.0800	0.03
0	0	0	172.0800	0.02
0	0	0	173.0800	0.01
0	0	0	174.0800	0.05
0	0	0	175.0800	0.03
0	0	0	176.0800	0.02
0	0	0	177.0800	0.01
0	0	0	178.0800	0.05
0	0	0	179.0800	0.03
0	0	0	180.0800	0.02
0	0	0	181.0800	0.01
0	0	0	182.0800	0.05
0	0	0	183.0800	0.03
0	0	0	184.0800	0.02
0	0	0	185.0800	0.01
0	0	0	186.0800	0.05

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	187.0800	0.03
0	0	0	188.0800	0.02
0	0	0	189.0800	0.05
0	0	0	190.0800	0.03
0	0	0	191.0800	0.02
0	0	0	192.0800	0.01
0	0	0	193.0800	0.05
0	0	0	194.0800	0.03
0	0	0	195.0800	0.02
0	0	0	196.0800	0.01
0	0	0	197.0800	0.05
0	0	0	198.0800	0.03
0	0	0	199.0800	0.02
0	0	0	200.0800	0.01
0	0	0	201.0800	0.05
0	0	0	202.0800	0.03
0	0	0	203.0800	0.02
0	0	0	204.0800	0.01
0	0	0	205.0800	0.05
0	0	0	206.0800	0.03
0	0	0	207.0800	0.02
0	0	0	208.0800	0.01
0	0	0	209.0800	0.05
0	0	0	210.0800	0.03
0	0	0	211.0800	0.02
0	0	0	212.0800	0.01
0	0	0	213.0800	0.05
0	0	0	214.0800	0.03
0	0	0	215.0800	0.02
0	0	0	216.0800	0.01
0	0	0	217.0800	0.05
0	0	0	218.0800	0.03
0	0	0	219.0800	0.02
0	0	0	220.0800	0.01
0	0	0	221.0800	0.05
0	0	0	222.0800	0.03
0	0	0	223.0800	0.02
0	0	0	224.0800	0.05
0	0	0	225.0800	0.03
0	0	0	226.0800	0.02
0	0	0	227.0800	0.01
0	0	0	228.0800	0.05
0	0	0	229.0800	0.03
0	0	0	230.0800	0.02
0	0	0	231.0800	0.01
0	0	0	232.0800	0.04
0	0	0	233.0800	0.03
0	0	0	234.0800	0.02
0	0	0	235.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	236.0800	0.04
0	0	0	237.0800	0.03
0	0	0	238.0800	0.02
0	0	0	239.0800	0.01
0	0	0	240.0800	0.04
0	0	0	241.0800	0.03
0	0	0	242.0800	0.02
0	0	0	243.0800	0.01
0	0	0	244.0800	0.04
0	0	0	245.0800	0.03
0	0	0	246.0800	0.02
0	0	0	247.0800	0.01
0	0	0	248.0800	0.04
0	0	0	249.0800	0.03
0	0	0	250.0800	0.02
0	0	0	251.0800	0.01
0	0	0	252.0800	0.04
0	0	0	253.0800	0.03
0	0	0	254.0800	0.02
0	0	0	255.0800	0.01
0	0	0	256.0800	0.04
0	0	0	257.0800	0.03
0	0	0	258.0800	0.02
0	0	0	259.0800	0.01
0	0	0	260.0800	0.04
0	0	0	261.0800	0.03
0	0	0	262.0800	0.02
0	0	0	263.0800	0.01
0	0	0	264.0800	0.04
0	0	0	265.0800	0.03
0	0	0	266.0800	0.02
0	0	0	267.0800	0.01
0	0	0	268.0800	0.04
0	0	0	269.0800	0.03
0	0	0	270.0800	0.02
0	0	0	271.0800	0.01
0	0	0	272.0800	0.04
0	0	0	273.0800	0.03
0	0	0	274.0800	0.02
0	0	0	275.0800	0.01
0	0	0	276.0800	0.04
0	0	0	277.0800	0.03
0	0	0	278.0800	0.02
0	0	0	279.0800	0.01
0	0	0	280.0800	0.04
0	0	0	281.0800	0.03
0	0	0	282.0800	0.02
0	0	0	283.0800	0.01
0	0	0	284.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	285.0800	0.03
0	0	0	286.0800	0.02
0	0	0	287.0800	0.01
0	0	0	288.0800	0.04
0	0	0	289.0800	0.03
0	0	0	290.0800	0.02
0	0	0	291.0800	0.01
0	0	0	292.0800	0.04
0	0	0	293.0800	0.03
0	0	0	294.0800	0.02
0	0	0	295.0800	0.01
0	0	0	296.0800	0.04
0	0	0	297.0800	0.03
0	0	0	298.0800	0.02
0	0	0	299.0800	0.01
0	0	0	300.0800	0.04
0	0	0	301.0800	0.03
0	0	0	302.0800	0.02
0	0	0	303.0800	0.01
0	0	0	304.0800	0.04
0	0	0	305.0800	0.03
0	0	0	306.0800	0.02
0	0	0	307.0800	0.01
0	0	0	308.0800	0.03
0	0	0	309.0800	0.03
0	0	0	310.0800	0.02
0	0	0	311.0800	0.01
0	0	0	312.0800	0.03
0	0	0	313.0800	0.03
0	0	0	314.0800	0.02
0	0	0	315.0800	0.01
0	0	0	316.0800	0.03
0	0	0	317.0800	0.03
0	0	0	318.0800	0.02
0	0	0	319.0800	0.01
0	0	0	320.0800	0.03
0	0	0	321.0800	0.03
0	0	0	322.0800	0.02
0	0	0	323.0800	0.01
0	0	0	324.0800	0.03
0	0	0	325.0800	0.02
0	0	0	326.0800	0.02
0	0	0	327.0800	0.01
0	0	0	328.0800	0.03
0	0	0	329.0800	0.02
0	0	0	330.0800	0.02
0	0	0	331.0800	0.01
0	0	0	332.0800	0.03
0	0	0	333.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	334.0800	0.02
0	0	0	335.0800	0.01
0	0	0	336.0800	0.03
0	0	0	337.0800	0.02
0	0	0	338.0800	0.02
0	0	0	339.0800	0.01
0	0	0	340.0800	0.03
0	0	0	341.0800	0.02
0	0	0	342.0800	0.02
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.03
0	0	0	346.0800	0.02
0	0	0	347.0800	0.02
0	0	0	348.0800	0.01
0	0	0	349.0800	0.03
0	0	0	350.0800	0.02
0	0	0	351.0800	0.02
0	0	0	352.0800	0.01
0	0	0	353.0800	0.03
0	0	0	354.0800	0.02
0	0	0	355.0800	0.02
0	0	0	356.0800	0.02
0	0	0	357.0800	0.02
0	0	0	358.0800	0.02
0	0	0	359.0800	0.02
0	0	0	360.0000	0.02

Comment: Daniels Roadway Control Str# 13

Rating Curve: CS-14

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.02
0	0	0	11.0000	0.02
0	0	0	11.5000	0.02
0	0	0	12.0000	0.02
0	0	0	12.5000	0.03
0	0	0	13.0000	0.03
0	0	0	13.5000	0.03
0	0	0	14.0000	0.03
0	0	0	14.5000	0.04
0	0	0	15.0000	0.04
0	0	0	15.5000	0.04
0	0	0	16.0000	0.04
0	0	0	16.5000	0.04
0	0	0	17.0000	0.05
0	0	0	17.5000	0.05
0	0	0	18.0000	0.05
0	0	0	18.5000	0.05
0	0	0	19.0000	0.05
0	0	0	19.5000	0.06
0	0	0	20.0000	0.06
0	0	0	20.5000	0.06
0	0	0	21.0000	0.06
0	0	0	21.5000	0.06
0	0	0	22.0000	0.06
0	0	0	22.5000	0.07
0	0	0	23.0000	0.07
0	0	0	23.5000	0.07
0	0	0	24.0000	0.07
0	0	0	24.5000	0.07
0	0	0	25.0000	0.08
0	0	0	25.5000	0.08
0	0	0	26.0000	0.08
0	0	0	26.5000	0.09
0	0	0	27.0000	0.09
0	0	0	27.5000	0.09
0	0	0	28.0000	0.10
0	0	0	28.5000	0.10
0	0	0	29.0000	0.10
0	0	0	29.5000	0.11

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	30.0000	0.11
0	0	0	30.5000	0.11
0	0	0	31.0000	0.11
0	0	0	31.5000	0.12
0	0	0	32.0000	0.12
0	0	0	32.5000	0.12
0	0	0	33.0000	0.12
0	0	0	33.5000	0.13
0	0	0	34.0000	0.13
0	0	0	34.5000	0.13
0	0	0	35.0000	0.13
0	0	0	35.5000	0.13
0	0	0	36.0000	0.14
0	0	0	36.5000	0.14
0	0	0	37.0000	0.14
0	0	0	37.5000	0.14
0	0	0	38.0000	0.14
0	0	0	38.5000	0.14
0	0	0	39.0000	0.14
0	0	0	39.5000	0.15
0	0	0	40.0000	0.15
0	0	0	40.5000	0.15
0	0	0	41.0000	0.15
0	0	0	41.5000	0.15
0	0	0	42.0000	0.15
0	0	0	42.5000	0.15
0	0	0	43.0000	0.15
0	0	0	43.5000	0.15
0	0	0	44.0000	0.15
0	0	0	44.5000	0.15
0	0	0	45.0000	0.15
0	0	0	45.5000	0.15
0	0	0	46.0000	0.15
0	0	0	46.5000	0.16
0	0	0	47.0000	0.16
0	0	0	47.5000	0.16
0	0	0	48.0000	0.16
0	0	0	48.5000	0.16
0	0	0	48.7500	0.16
0	0	0	49.0000	0.16
0	0	0	49.2500	0.16
0	0	0	49.5000	0.16
0	0	0	49.7500	0.16
0	0	0	50.0000	0.16
0	0	0	50.2500	0.16
0	0	0	50.5000	0.16
0	0	0	50.7500	0.17
0	0	0	51.0000	0.17
0	0	0	51.2500	0.17

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	51.5000	0.17
0	0	0	51.7500	0.17
0	0	0	52.0000	0.17
0	0	0	52.2500	0.18
0	0	0	52.5000	0.18
0	0	0	52.7500	0.18
0	0	0	53.0000	0.19
0	0	0	53.2500	0.19
0	0	0	53.5000	0.20
0	0	0	53.7500	0.20
0	0	0	54.0000	0.21
0	0	0	54.2500	0.22
0	0	0	54.5000	0.22
0	0	0	54.7500	0.23
0	0	0	55.0000	0.24
0	0	0	55.2500	0.25
0	0	0	55.4200	0.25
0	0	0	55.5800	0.26
0	0	0	55.7500	0.27
0	0	0	55.9200	0.27
0	0	0	56.0800	0.28
0	0	0	56.2500	0.28
0	0	0	56.4200	0.29
0	0	0	56.5800	0.30
0	0	0	56.7500	0.31
0	0	0	56.9200	0.31
0	0	0	57.0800	0.32
0	0	0	57.2500	0.33
0	0	0	57.4200	0.34
0	0	0	57.5800	0.35
0	0	0	57.7500	0.36
0	0	0	57.9200	0.37
0	0	0	58.0800	0.38
0	0	0	58.2500	0.39
0	0	0	58.4200	0.41
0	0	0	58.5800	0.42
0	0	0	58.7500	0.44
0	0	0	58.9200	0.45
0	0	0	59.0800	0.47
0	0	0	59.2500	0.50
0	0	0	59.4200	0.54
0	0	0	59.5800	0.60
0	0	0	59.7500	2.03
0	0	0	59.9200	4.66
0	0	0	60.0800	6.80
0	0	0	60.2500	6.58
0	0	0	60.4200	5.67
0	0	0	60.5800	4.89
0	0	0	60.7500	4.12

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	60.9200	3.48
0	0	0	61.0800	3.00
0	0	0	61.3300	2.42
0	0	0	61.5800	2.01
0	0	0	61.8300	1.70
0	0	0	62.0800	1.47
0	0	0	62.3300	1.27
0	0	0	62.5800	1.10
0	0	0	62.8300	0.97
0	0	0	63.0800	0.88
0	0	0	63.3300	0.79
0	0	0	63.5800	0.74
0	0	0	63.8300	0.68
0	0	0	64.0800	0.64
0	0	0	64.3300	0.57
0	0	0	64.5800	0.50
0	0	0	64.8300	0.45
0	0	0	65.0800	0.40
0	0	0	65.3300	0.35
0	0	0	65.5800	0.30
0	0	0	65.8300	0.31
0	0	0	66.0800	0.27
0	0	0	66.3300	0.22
0	0	0	66.5800	0.26
0	0	0	66.8300	0.21
0	0	0	67.0800	0.25
0	0	0	67.3300	0.18
0	0	0	67.5800	0.25
0	0	0	67.8300	0.29
0	0	0	68.0800	0.19
0	0	0	68.3300	0.22
0	0	0	68.5800	0.23
0	0	0	68.8300	0.05
0	0	0	69.0800	0.15
0	0	0	69.3300	0.20
0	0	0	69.5800	0.22
0	0	0	69.8300	0.03
0	0	0	70.0800	0.15
0	0	0	70.3300	0.20
0	0	0	70.5800	0.22
0	0	0	70.8300	0.02
0	0	0	71.0800	0.15
0	0	0	71.3300	0.21
0	0	0	71.5800	0.23
0	0	0	71.8300	0.24
0	0	0	72.0800	0.23
0	0	0	73.0800	-0.09
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.09
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.09
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.09
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.09
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.09
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.08
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.08
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.08
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.07
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.06
0	0	0	113.0800	0.02
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.05
0	0	0	117.0800	0.02
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.04
0	0	0	121.0800	0.02
0	0	0	122.0800	0.01
0	0	0	123.0800	0.05
0	0	0	124.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	125.0800	0.01
0	0	0	126.0800	0.01
0	0	0	127.0800	0.04
0	0	0	128.0800	0.02
0	0	0	129.0800	0.01
0	0	0	130.0800	0.01
0	0	0	131.0800	0.04
0	0	0	132.0800	0.02
0	0	0	133.0800	0.01
0	0	0	134.0800	0.01
0	0	0	135.0800	0.04
0	0	0	136.0800	0.02
0	0	0	137.0800	0.01
0	0	0	138.0800	0.01
0	0	0	139.0800	0.04
0	0	0	140.0800	0.02
0	0	0	141.0800	0.01
0	0	0	142.0800	0.01
0	0	0	143.0800	0.04
0	0	0	144.0800	0.02
0	0	0	145.0800	0.01
0	0	0	146.0800	0.01
0	0	0	147.0800	0.04
0	0	0	148.0800	0.02
0	0	0	149.0800	0.01
0	0	0	150.0800	0.01
0	0	0	151.0800	0.04
0	0	0	152.0800	0.02
0	0	0	153.0800	0.01
0	0	0	154.0800	0.05
0	0	0	155.0800	0.03
0	0	0	156.0800	0.01
0	0	0	157.0800	0.01
0	0	0	158.0800	0.04
0	0	0	159.0800	0.02
0	0	0	160.0800	0.01
0	0	0	161.0800	0.01
0	0	0	162.0800	0.04
0	0	0	163.0800	0.02
0	0	0	164.0800	0.01
0	0	0	165.0800	0.01
0	0	0	166.0800	0.04
0	0	0	167.0800	0.02
0	0	0	168.0800	0.01
0	0	0	169.0800	0.01
0	0	0	170.0800	0.04
0	0	0	171.0800	0.02
0	0	0	172.0800	0.01
0	0	0	173.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	174.0800	0.04
0	0	0	175.0800	0.02
0	0	0	176.0800	0.01
0	0	0	177.0800	0.01
0	0	0	178.0800	0.04
0	0	0	179.0800	0.02
0	0	0	180.0800	0.01
0	0	0	181.0800	0.01
0	0	0	182.0800	0.04
0	0	0	183.0800	0.02
0	0	0	184.0800	0.01
0	0	0	185.0800	0.01
0	0	0	186.0800	0.04
0	0	0	187.0800	0.02
0	0	0	188.0800	0.01
0	0	0	189.0800	0.04
0	0	0	190.0800	0.03
0	0	0	191.0800	0.01
0	0	0	192.0800	0.01
0	0	0	193.0800	0.04
0	0	0	194.0800	0.02
0	0	0	195.0800	0.01
0	0	0	196.0800	0.01
0	0	0	197.0800	0.04
0	0	0	198.0800	0.02
0	0	0	199.0800	0.01
0	0	0	200.0800	0.01
0	0	0	201.0800	0.04
0	0	0	202.0800	0.02
0	0	0	203.0800	0.01
0	0	0	204.0800	0.01
0	0	0	205.0800	0.04
0	0	0	206.0800	0.02
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.04
0	0	0	210.0800	0.02
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.04
0	0	0	214.0800	0.02
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.04
0	0	0	218.0800	0.02
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01
0	0	0	221.0800	0.04
0	0	0	222.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	223.0800	0.01
0	0	0	224.0800	0.04
0	0	0	225.0800	0.02
0	0	0	226.0800	0.01
0	0	0	227.0800	0.01
0	0	0	228.0800	0.04
0	0	0	229.0800	0.02
0	0	0	230.0800	0.01
0	0	0	231.0800	0.01
0	0	0	232.0800	0.04
0	0	0	233.0800	0.02
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.04
0	0	0	237.0800	0.02
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.04
0	0	0	241.0800	0.02
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01
0	0	0	244.0800	0.04
0	0	0	245.0800	0.02
0	0	0	246.0800	0.01
0	0	0	247.0800	0.01
0	0	0	248.0800	0.04
0	0	0	249.0800	0.02
0	0	0	250.0800	0.01
0	0	0	251.0800	0.01
0	0	0	252.0800	0.03
0	0	0	253.0800	0.02
0	0	0	254.0800	0.01
0	0	0	255.0800	0.01
0	0	0	256.0800	0.03
0	0	0	257.0800	0.02
0	0	0	258.0800	0.01
0	0	0	259.0800	0.01
0	0	0	260.0800	0.03
0	0	0	261.0800	0.02
0	0	0	262.0800	0.01
0	0	0	263.0800	0.01
0	0	0	264.0800	0.03
0	0	0	265.0800	0.02
0	0	0	266.0800	0.01
0	0	0	267.0800	0.01
0	0	0	268.0800	0.03
0	0	0	269.0800	0.02
0	0	0	270.0800	0.01
0	0	0	271.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	272.0800	0.03
0	0	0	273.0800	0.02
0	0	0	274.0800	0.01
0	0	0	275.0800	0.01
0	0	0	276.0800	0.03
0	0	0	277.0800	0.02
0	0	0	278.0800	0.01
0	0	0	279.0800	0.01
0	0	0	280.0800	0.03
0	0	0	281.0800	0.02
0	0	0	282.0800	0.01
0	0	0	283.0800	0.01
0	0	0	284.0800	0.03
0	0	0	285.0800	0.02
0	0	0	286.0800	0.01
0	0	0	287.0800	0.01
0	0	0	288.0800	0.03
0	0	0	289.0800	0.02
0	0	0	290.0800	0.01
0	0	0	291.0800	0.01
0	0	0	292.0800	0.03
0	0	0	293.0800	0.02
0	0	0	294.0800	0.01
0	0	0	295.0800	0.01
0	0	0	296.0800	0.03
0	0	0	297.0800	0.02
0	0	0	298.0800	0.01
0	0	0	299.0800	0.01
0	0	0	300.0800	0.03
0	0	0	301.0800	0.02
0	0	0	302.0800	0.01
0	0	0	303.0800	0.01
0	0	0	304.0800	0.03
0	0	0	305.0800	0.02
0	0	0	306.0800	0.01
0	0	0	307.0800	0.01
0	0	0	308.0800	0.03
0	0	0	309.0800	0.02
0	0	0	310.0800	0.01
0	0	0	311.0800	0.01
0	0	0	312.0800	0.03
0	0	0	313.0800	0.02
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.03
0	0	0	317.0800	0.02
0	0	0	318.0800	0.02
0	0	0	319.0800	0.01
0	0	0	320.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	321.0800	0.02
0	0	0	322.0800	0.02
0	0	0	323.0800	0.01
0	0	0	324.0800	0.03
0	0	0	325.0800	0.02
0	0	0	326.0800	0.02
0	0	0	327.0800	0.01
0	0	0	328.0800	0.03
0	0	0	329.0800	0.02
0	0	0	330.0800	0.02
0	0	0	331.0800	0.01
0	0	0	332.0800	0.02
0	0	0	333.0800	0.02
0	0	0	334.0800	0.02
0	0	0	335.0800	0.01
0	0	0	336.0800	0.02
0	0	0	337.0800	0.02
0	0	0	338.0800	0.02
0	0	0	339.0800	0.01
0	0	0	340.0800	0.02
0	0	0	341.0800	0.02
0	0	0	342.0800	0.02
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.02
0	0	0	346.0800	0.02
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.02
0	0	0	350.0800	0.02
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.02
0	0	0	354.0800	0.02
0	0	0	355.0800	0.02
0	0	0	356.0800	0.01
0	0	0	357.0800	0.02
0	0	0	358.0800	0.02
0	0	0	359.0800	0.02
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 14

Rating Curve: CS-15

Scenario: Icpr3

Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.02
0	0	0	11.0000	0.02
0	0	0	11.5000	0.02
0	0	0	12.0000	0.02
0	0	0	12.5000	0.03
0	0	0	13.0000	0.03
0	0	0	13.5000	0.03
0	0	0	14.0000	0.03
0	0	0	14.5000	0.04
0	0	0	15.0000	0.04
0	0	0	15.5000	0.04
0	0	0	16.0000	0.04
0	0	0	16.5000	0.04
0	0	0	17.0000	0.05
0	0	0	17.5000	0.05
0	0	0	18.0000	0.05
0	0	0	18.5000	0.05
0	0	0	19.0000	0.05
0	0	0	19.5000	0.06
0	0	0	20.0000	0.06
0	0	0	20.5000	0.06
0	0	0	21.0000	0.06
0	0	0	21.5000	0.06
0	0	0	22.0000	0.06
0	0	0	22.5000	0.07
0	0	0	23.0000	0.07
0	0	0	23.5000	0.07

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	24.0000	0.07
0	0	0	24.5000	0.07
0	0	0	25.0000	0.08
0	0	0	25.5000	0.08
0	0	0	26.0000	0.08
0	0	0	26.5000	0.09
0	0	0	27.0000	0.09
0	0	0	27.5000	0.09
0	0	0	28.0000	0.10
0	0	0	28.5000	0.10
0	0	0	29.0000	0.10
0	0	0	29.5000	0.11
0	0	0	30.0000	0.11
0	0	0	30.5000	0.11
0	0	0	31.0000	0.11
0	0	0	31.5000	0.12
0	0	0	32.0000	0.12
0	0	0	32.5000	0.12
0	0	0	33.0000	0.12
0	0	0	33.5000	0.13
0	0	0	34.0000	0.13
0	0	0	34.5000	0.13
0	0	0	35.0000	0.13
0	0	0	35.5000	0.13
0	0	0	36.0000	0.14
0	0	0	36.5000	0.14
0	0	0	37.0000	0.14
0	0	0	37.5000	0.14
0	0	0	38.0000	0.14
0	0	0	38.5000	0.14
0	0	0	39.0000	0.14
0	0	0	39.5000	0.15
0	0	0	40.0000	0.15
0	0	0	40.5000	0.15
0	0	0	41.0000	0.15
0	0	0	41.5000	0.15
0	0	0	42.0000	0.15
0	0	0	42.5000	0.15
0	0	0	43.0000	0.15
0	0	0	43.5000	0.15
0	0	0	44.0000	0.15
0	0	0	44.5000	0.15
0	0	0	45.0000	0.15
0	0	0	45.5000	0.15
0	0	0	46.0000	0.15
0	0	0	46.5000	0.16
0	0	0	47.0000	0.16
0	0	0	47.5000	0.16
0	0	0	48.0000	0.16

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	48.5000	0.16
0	0	0	48.7500	0.16
0	0	0	49.0000	0.16
0	0	0	49.2500	0.16
0	0	0	49.5000	0.16
0	0	0	49.7500	0.16
0	0	0	50.0000	0.16
0	0	0	50.2500	0.16
0	0	0	50.5000	0.16
0	0	0	50.7500	0.17
0	0	0	51.0000	0.17
0	0	0	51.2500	0.17
0	0	0	51.5000	0.17
0	0	0	51.7500	0.17
0	0	0	52.0000	0.17
0	0	0	52.2500	0.18
0	0	0	52.5000	0.18
0	0	0	52.7500	0.18
0	0	0	53.0000	0.19
0	0	0	53.2500	0.19
0	0	0	53.5000	0.20
0	0	0	53.7500	0.20
0	0	0	54.0000	0.21
0	0	0	54.2500	0.22
0	0	0	54.5000	0.22
0	0	0	54.7500	0.23
0	0	0	55.0000	0.24
0	0	0	55.2500	0.25
0	0	0	55.4200	0.25
0	0	0	55.5800	0.26
0	0	0	55.7500	0.27
0	0	0	55.9200	0.27
0	0	0	56.0800	0.28
0	0	0	56.2500	0.28
0	0	0	56.4200	0.29
0	0	0	56.5800	0.30
0	0	0	56.7500	0.31
0	0	0	56.9200	0.31
0	0	0	57.0800	0.32
0	0	0	57.2500	0.33
0	0	0	57.4200	0.34
0	0	0	57.5800	0.35
0	0	0	57.7500	0.36
0	0	0	57.9200	0.37
0	0	0	58.0800	0.38
0	0	0	58.2500	0.39
0	0	0	58.4200	0.41
0	0	0	58.5800	0.42
0	0	0	58.7500	0.44

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	58.9200	0.45
0	0	0	59.0800	0.47
0	0	0	59.2500	0.50
0	0	0	59.4200	0.54
0	0	0	59.5800	0.60
0	0	0	59.7500	2.03
0	0	0	59.9200	4.66
0	0	0	60.0800	6.80
0	0	0	60.2500	6.58
0	0	0	60.4200	5.67
0	0	0	60.5800	4.89
0	0	0	60.7500	4.12
0	0	0	60.9200	3.48
0	0	0	61.0800	3.00
0	0	0	61.3300	2.42
0	0	0	61.5800	2.01
0	0	0	61.8300	1.70
0	0	0	62.0800	1.47
0	0	0	62.3300	1.27
0	0	0	62.5800	1.10
0	0	0	62.8300	0.97
0	0	0	63.0800	0.88
0	0	0	63.3300	0.79
0	0	0	63.5800	0.74
0	0	0	63.8300	0.68
0	0	0	64.0800	0.64
0	0	0	64.3300	0.57
0	0	0	64.5800	0.50
0	0	0	64.8300	0.45
0	0	0	65.0800	0.40
0	0	0	65.3300	0.35
0	0	0	65.5800	0.30
0	0	0	65.8300	0.31
0	0	0	66.0800	0.27
0	0	0	66.3300	0.22
0	0	0	66.5800	0.26
0	0	0	66.8300	0.21
0	0	0	67.0800	0.25
0	0	0	67.3300	0.18
0	0	0	67.5800	0.25
0	0	0	67.8300	0.29
0	0	0	68.0800	0.19
0	0	0	68.3300	0.22
0	0	0	68.5800	0.23
0	0	0	68.8300	0.05
0	0	0	69.0800	0.15
0	0	0	69.3300	0.20
0	0	0	69.5800	0.22
0	0	0	69.8300	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	70.0800	0.15
0	0	0	70.3300	0.20
0	0	0	70.5800	0.22
0	0	0	70.8300	0.02
0	0	0	71.0800	0.15
0	0	0	71.3300	0.21
0	0	0	71.5800	0.23
0	0	0	71.8300	0.24
0	0	0	72.0800	0.23
0	0	0	73.0800	-0.09
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.09
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.09
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.09
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.09
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.09
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.08
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.08
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.08
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.07
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.06

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	113.0800	0.02
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.05
0	0	0	117.0800	0.02
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.04
0	0	0	121.0800	0.02
0	0	0	122.0800	0.01
0	0	0	123.0800	0.05
0	0	0	124.0800	0.03
0	0	0	125.0800	0.01
0	0	0	126.0800	0.01
0	0	0	127.0800	0.04
0	0	0	128.0800	0.02
0	0	0	129.0800	0.01
0	0	0	130.0800	0.01
0	0	0	131.0800	0.04
0	0	0	132.0800	0.02
0	0	0	133.0800	0.01
0	0	0	134.0800	0.01
0	0	0	135.0800	0.04
0	0	0	136.0800	0.02
0	0	0	137.0800	0.01
0	0	0	138.0800	0.01
0	0	0	139.0800	0.04
0	0	0	140.0800	0.02
0	0	0	141.0800	0.01
0	0	0	142.0800	0.01
0	0	0	143.0800	0.04
0	0	0	144.0800	0.02
0	0	0	145.0800	0.01
0	0	0	146.0800	0.01
0	0	0	147.0800	0.04
0	0	0	148.0800	0.02
0	0	0	149.0800	0.01
0	0	0	150.0800	0.01
0	0	0	151.0800	0.04
0	0	0	152.0800	0.02
0	0	0	153.0800	0.01
0	0	0	154.0800	0.05
0	0	0	155.0800	0.03
0	0	0	156.0800	0.01
0	0	0	157.0800	0.01
0	0	0	158.0800	0.04
0	0	0	159.0800	0.02
0	0	0	160.0800	0.01
0	0	0	161.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	162.0800	0.04
0	0	0	163.0800	0.02
0	0	0	164.0800	0.01
0	0	0	165.0800	0.01
0	0	0	166.0800	0.04
0	0	0	167.0800	0.02
0	0	0	168.0800	0.01
0	0	0	169.0800	0.01
0	0	0	170.0800	0.04
0	0	0	171.0800	0.02
0	0	0	172.0800	0.01
0	0	0	173.0800	0.01
0	0	0	174.0800	0.04
0	0	0	175.0800	0.02
0	0	0	176.0800	0.01
0	0	0	177.0800	0.01
0	0	0	178.0800	0.04
0	0	0	179.0800	0.02
0	0	0	180.0800	0.01
0	0	0	181.0800	0.01
0	0	0	182.0800	0.04
0	0	0	183.0800	0.02
0	0	0	184.0800	0.01
0	0	0	185.0800	0.01
0	0	0	186.0800	0.04
0	0	0	187.0800	0.02
0	0	0	188.0800	0.01
0	0	0	189.0800	0.04
0	0	0	190.0800	0.03
0	0	0	191.0800	0.01
0	0	0	192.0800	0.01
0	0	0	193.0800	0.04
0	0	0	194.0800	0.02
0	0	0	195.0800	0.01
0	0	0	196.0800	0.01
0	0	0	197.0800	0.04
0	0	0	198.0800	0.02
0	0	0	199.0800	0.01
0	0	0	200.0800	0.01
0	0	0	201.0800	0.04
0	0	0	202.0800	0.02
0	0	0	203.0800	0.01
0	0	0	204.0800	0.01
0	0	0	205.0800	0.04
0	0	0	206.0800	0.02
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.04
0	0	0	210.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.04
0	0	0	214.0800	0.02
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.04
0	0	0	218.0800	0.02
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01
0	0	0	221.0800	0.04
0	0	0	222.0800	0.02
0	0	0	223.0800	0.01
0	0	0	224.0800	0.04
0	0	0	225.0800	0.02
0	0	0	226.0800	0.01
0	0	0	227.0800	0.01
0	0	0	228.0800	0.04
0	0	0	229.0800	0.02
0	0	0	230.0800	0.01
0	0	0	231.0800	0.01
0	0	0	232.0800	0.04
0	0	0	233.0800	0.02
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.04
0	0	0	237.0800	0.02
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.04
0	0	0	241.0800	0.02
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01
0	0	0	244.0800	0.04
0	0	0	245.0800	0.02
0	0	0	246.0800	0.01
0	0	0	247.0800	0.01
0	0	0	248.0800	0.04
0	0	0	249.0800	0.02
0	0	0	250.0800	0.01
0	0	0	251.0800	0.01
0	0	0	252.0800	0.03
0	0	0	253.0800	0.02
0	0	0	254.0800	0.01
0	0	0	255.0800	0.01
0	0	0	256.0800	0.03
0	0	0	257.0800	0.02
0	0	0	258.0800	0.01
0	0	0	259.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	260.0800	0.03
0	0	0	261.0800	0.02
0	0	0	262.0800	0.01
0	0	0	263.0800	0.01
0	0	0	264.0800	0.03
0	0	0	265.0800	0.02
0	0	0	266.0800	0.01
0	0	0	267.0800	0.01
0	0	0	268.0800	0.03
0	0	0	269.0800	0.02
0	0	0	270.0800	0.01
0	0	0	271.0800	0.01
0	0	0	272.0800	0.03
0	0	0	273.0800	0.02
0	0	0	274.0800	0.01
0	0	0	275.0800	0.01
0	0	0	276.0800	0.03
0	0	0	277.0800	0.02
0	0	0	278.0800	0.01
0	0	0	279.0800	0.01
0	0	0	280.0800	0.03
0	0	0	281.0800	0.02
0	0	0	282.0800	0.01
0	0	0	283.0800	0.01
0	0	0	284.0800	0.03
0	0	0	285.0800	0.02
0	0	0	286.0800	0.01
0	0	0	287.0800	0.01
0	0	0	288.0800	0.03
0	0	0	289.0800	0.02
0	0	0	290.0800	0.01
0	0	0	291.0800	0.01
0	0	0	292.0800	0.03
0	0	0	293.0800	0.02
0	0	0	294.0800	0.01
0	0	0	295.0800	0.01
0	0	0	296.0800	0.03
0	0	0	297.0800	0.02
0	0	0	298.0800	0.01
0	0	0	299.0800	0.01
0	0	0	300.0800	0.03
0	0	0	301.0800	0.02
0	0	0	302.0800	0.01
0	0	0	303.0800	0.01
0	0	0	304.0800	0.03
0	0	0	305.0800	0.02
0	0	0	306.0800	0.01
0	0	0	307.0800	0.01
0	0	0	308.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	309.0800	0.02
0	0	0	310.0800	0.01
0	0	0	311.0800	0.01
0	0	0	312.0800	0.03
0	0	0	313.0800	0.02
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.03
0	0	0	317.0800	0.02
0	0	0	318.0800	0.02
0	0	0	319.0800	0.01
0	0	0	320.0800	0.03
0	0	0	321.0800	0.02
0	0	0	322.0800	0.02
0	0	0	323.0800	0.01
0	0	0	324.0800	0.03
0	0	0	325.0800	0.02
0	0	0	326.0800	0.02
0	0	0	327.0800	0.01
0	0	0	328.0800	0.03
0	0	0	329.0800	0.02
0	0	0	330.0800	0.02
0	0	0	331.0800	0.01
0	0	0	332.0800	0.02
0	0	0	333.0800	0.02
0	0	0	334.0800	0.02
0	0	0	335.0800	0.01
0	0	0	336.0800	0.02
0	0	0	337.0800	0.02
0	0	0	338.0800	0.02
0	0	0	339.0800	0.01
0	0	0	340.0800	0.02
0	0	0	341.0800	0.02
0	0	0	342.0800	0.02
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.02
0	0	0	346.0800	0.02
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.02
0	0	0	350.0800	0.02
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.02
0	0	0	354.0800	0.02
0	0	0	355.0800	0.02
0	0	0	356.0800	0.01
0	0	0	357.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	358.0800	0.02
0	0	0	359.0800	0.02
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 15

Rating Curve: CS-16

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.00
0	0	0	7.0000	0.00
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.01
0	0	0	10.0000	0.01
0	0	0	10.5000	0.01
0	0	0	11.0000	0.01
0	0	0	11.5000	0.02
0	0	0	12.0000	0.02
0	0	0	12.5000	0.02
0	0	0	13.0000	0.02
0	0	0	13.5000	0.02
0	0	0	14.0000	0.02
0	0	0	14.5000	0.02
0	0	0	15.0000	0.02
0	0	0	15.5000	0.03
0	0	0	16.0000	0.03
0	0	0	16.5000	0.03
0	0	0	17.0000	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	17.5000	0.03
0	0	0	18.0000	0.03
0	0	0	18.5000	0.03
0	0	0	19.0000	0.04
0	0	0	19.5000	0.04
0	0	0	20.0000	0.04
0	0	0	20.5000	0.04
0	0	0	21.0000	0.04
0	0	0	21.5000	0.04
0	0	0	22.0000	0.04
0	0	0	22.5000	0.04
0	0	0	23.0000	0.04
0	0	0	23.5000	0.05
0	0	0	24.0000	0.05
0	0	0	24.5000	0.05
0	0	0	25.0000	0.05
0	0	0	25.5000	0.05
0	0	0	26.0000	0.06
0	0	0	26.5000	0.06
0	0	0	27.0000	0.06
0	0	0	27.5000	0.06
0	0	0	28.0000	0.06
0	0	0	28.5000	0.07
0	0	0	29.0000	0.07
0	0	0	29.5000	0.07
0	0	0	30.0000	0.07
0	0	0	30.5000	0.07
0	0	0	31.0000	0.08
0	0	0	31.5000	0.08
0	0	0	32.0000	0.08
0	0	0	32.5000	0.08
0	0	0	33.0000	0.08
0	0	0	33.5000	0.08
0	0	0	34.0000	0.08
0	0	0	34.5000	0.09
0	0	0	35.0000	0.09
0	0	0	35.5000	0.09
0	0	0	36.0000	0.09
0	0	0	36.5000	0.09
0	0	0	37.0000	0.09
0	0	0	37.5000	0.09
0	0	0	38.0000	0.09
0	0	0	38.5000	0.09
0	0	0	39.0000	0.10
0	0	0	39.5000	0.10
0	0	0	40.0000	0.10
0	0	0	40.5000	0.10
0	0	0	41.0000	0.10
0	0	0	41.5000	0.10

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	42.0000	0.10
0	0	0	42.5000	0.10
0	0	0	43.0000	0.10
0	0	0	43.5000	0.10
0	0	0	44.0000	0.10
0	0	0	44.5000	0.10
0	0	0	45.0000	0.10
0	0	0	45.5000	0.10
0	0	0	46.0000	0.10
0	0	0	46.5000	0.10
0	0	0	47.0000	0.10
0	0	0	47.5000	0.10
0	0	0	48.0000	0.10
0	0	0	48.5000	0.10
0	0	0	48.7500	0.10
0	0	0	49.0000	0.10
0	0	0	49.2500	0.10
0	0	0	49.5000	0.11
0	0	0	49.7500	0.11
0	0	0	50.0000	0.11
0	0	0	50.2500	0.11
0	0	0	50.5000	0.11
0	0	0	50.7500	0.11
0	0	0	51.0000	0.11
0	0	0	51.2500	0.11
0	0	0	51.5000	0.11
0	0	0	51.7500	0.11
0	0	0	52.0000	0.11
0	0	0	52.2500	0.12
0	0	0	52.5000	0.12
0	0	0	52.7500	0.12
0	0	0	53.0000	0.12
0	0	0	53.2500	0.13
0	0	0	53.5000	0.13
0	0	0	53.7500	0.14
0	0	0	54.0000	0.14
0	0	0	54.2500	0.14
0	0	0	54.5000	0.15
0	0	0	54.7500	0.15
0	0	0	55.0000	0.16
0	0	0	55.2500	0.16
0	0	0	55.4200	0.17
0	0	0	55.5800	0.17
0	0	0	55.7500	0.17
0	0	0	55.9200	0.18
0	0	0	56.0800	0.18
0	0	0	56.2500	0.19
0	0	0	56.4200	0.19
0	0	0	56.5800	0.20

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	56.7500	0.20
0	0	0	56.9200	0.21
0	0	0	57.0800	0.21
0	0	0	57.2500	0.22
0	0	0	57.4200	0.22
0	0	0	57.5800	0.23
0	0	0	57.7500	0.24
0	0	0	57.9200	0.24
0	0	0	58.0800	0.25
0	0	0	58.2500	0.26
0	0	0	58.4200	0.27
0	0	0	58.5800	0.28
0	0	0	58.7500	0.29
0	0	0	58.9200	0.30
0	0	0	59.0800	0.31
0	0	0	59.2500	0.33
0	0	0	59.4200	0.35
0	0	0	59.5800	0.40
0	0	0	59.7500	1.34
0	0	0	59.9200	3.07
0	0	0	60.0800	4.48
0	0	0	60.2500	4.34
0	0	0	60.4200	3.74
0	0	0	60.5800	3.22
0	0	0	60.7500	2.71
0	0	0	60.9200	2.30
0	0	0	61.0800	1.98
0	0	0	61.3300	1.59
0	0	0	61.5800	1.32
0	0	0	61.8300	1.12
0	0	0	62.0800	0.97
0	0	0	62.3300	0.83
0	0	0	62.5800	0.73
0	0	0	62.8300	0.64
0	0	0	63.0800	0.58
0	0	0	63.3300	0.52
0	0	0	63.5800	0.49
0	0	0	63.8300	0.45
0	0	0	64.0800	0.42
0	0	0	64.3300	0.38
0	0	0	64.5800	0.33
0	0	0	64.8300	0.29
0	0	0	65.0800	0.26
0	0	0	65.3300	0.23
0	0	0	65.5800	0.20
0	0	0	65.8300	0.21
0	0	0	66.0800	0.18
0	0	0	66.3300	0.15
0	0	0	66.5800	0.17

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	66.8300	0.14
0	0	0	67.0800	0.17
0	0	0	67.3300	0.12
0	0	0	67.5800	0.16
0	0	0	67.8300	0.19
0	0	0	68.0800	0.13
0	0	0	68.3300	0.14
0	0	0	68.5800	0.15
0	0	0	68.8300	0.03
0	0	0	69.0800	0.10
0	0	0	69.3300	0.13
0	0	0	69.5800	0.14
0	0	0	69.8300	0.02
0	0	0	70.0800	0.10
0	0	0	70.3300	0.13
0	0	0	70.5800	0.15
0	0	0	70.8300	0.01
0	0	0	71.0800	0.10
0	0	0	71.3300	0.14
0	0	0	71.5800	0.15
0	0	0	71.8300	0.16
0	0	0	72.0800	0.15
0	0	0	73.0800	-0.06
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.06
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.06
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.06
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.06
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.06
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.06
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	100.0800	0.00
0	0	0	101.0800	0.05
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.05
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.05
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.04
0	0	0	113.0800	0.01
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.03
0	0	0	117.0800	0.01
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.03
0	0	0	121.0800	0.02
0	0	0	122.0800	0.01
0	0	0	123.0800	0.03
0	0	0	124.0800	0.02
0	0	0	125.0800	0.01
0	0	0	126.0800	0.00
0	0	0	127.0800	0.03
0	0	0	128.0800	0.02
0	0	0	129.0800	0.01
0	0	0	130.0800	0.00
0	0	0	131.0800	0.03
0	0	0	132.0800	0.02
0	0	0	133.0800	0.01
0	0	0	134.0800	0.00
0	0	0	135.0800	0.03
0	0	0	136.0800	0.02
0	0	0	137.0800	0.01
0	0	0	138.0800	0.00
0	0	0	139.0800	0.03
0	0	0	140.0800	0.02
0	0	0	141.0800	0.01
0	0	0	142.0800	0.00
0	0	0	143.0800	0.03
0	0	0	144.0800	0.02
0	0	0	145.0800	0.01
0	0	0	146.0800	0.00
0	0	0	147.0800	0.03
0	0	0	148.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	149.0800	0.01
0	0	0	150.0800	0.00
0	0	0	151.0800	0.03
0	0	0	152.0800	0.02
0	0	0	153.0800	0.01
0	0	0	154.0800	0.03
0	0	0	155.0800	0.02
0	0	0	156.0800	0.01
0	0	0	157.0800	0.01
0	0	0	158.0800	0.03
0	0	0	159.0800	0.02
0	0	0	160.0800	0.01
0	0	0	161.0800	0.00
0	0	0	162.0800	0.03
0	0	0	163.0800	0.02
0	0	0	164.0800	0.01
0	0	0	165.0800	0.00
0	0	0	166.0800	0.03
0	0	0	167.0800	0.02
0	0	0	168.0800	0.01
0	0	0	169.0800	0.00
0	0	0	170.0800	0.03
0	0	0	171.0800	0.02
0	0	0	172.0800	0.01
0	0	0	173.0800	0.00
0	0	0	174.0800	0.03
0	0	0	175.0800	0.02
0	0	0	176.0800	0.01
0	0	0	177.0800	0.00
0	0	0	178.0800	0.03
0	0	0	179.0800	0.02
0	0	0	180.0800	0.01
0	0	0	181.0800	0.00
0	0	0	182.0800	0.03
0	0	0	183.0800	0.02
0	0	0	184.0800	0.01
0	0	0	185.0800	0.00
0	0	0	186.0800	0.03
0	0	0	187.0800	0.02
0	0	0	188.0800	0.01
0	0	0	189.0800	0.03
0	0	0	190.0800	0.02
0	0	0	191.0800	0.01
0	0	0	192.0800	0.01
0	0	0	193.0800	0.03
0	0	0	194.0800	0.02
0	0	0	195.0800	0.01
0	0	0	196.0800	0.00
0	0	0	197.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	198.0800	0.02
0	0	0	199.0800	0.01
0	0	0	200.0800	0.00
0	0	0	201.0800	0.03
0	0	0	202.0800	0.02
0	0	0	203.0800	0.01
0	0	0	204.0800	0.00
0	0	0	205.0800	0.03
0	0	0	206.0800	0.02
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.03
0	0	0	210.0800	0.02
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.03
0	0	0	214.0800	0.02
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.02
0	0	0	218.0800	0.02
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01
0	0	0	221.0800	0.02
0	0	0	222.0800	0.02
0	0	0	223.0800	0.01
0	0	0	224.0800	0.03
0	0	0	225.0800	0.02
0	0	0	226.0800	0.01
0	0	0	227.0800	0.01
0	0	0	228.0800	0.02
0	0	0	229.0800	0.02
0	0	0	230.0800	0.01
0	0	0	231.0800	0.01
0	0	0	232.0800	0.02
0	0	0	233.0800	0.02
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.02
0	0	0	237.0800	0.02
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.02
0	0	0	241.0800	0.02
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01
0	0	0	244.0800	0.02
0	0	0	245.0800	0.01
0	0	0	246.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	247.0800	0.01
0	0	0	248.0800	0.02
0	0	0	249.0800	0.01
0	0	0	250.0800	0.01
0	0	0	251.0800	0.01
0	0	0	252.0800	0.02
0	0	0	253.0800	0.01
0	0	0	254.0800	0.01
0	0	0	255.0800	0.01
0	0	0	256.0800	0.02
0	0	0	257.0800	0.01
0	0	0	258.0800	0.01
0	0	0	259.0800	0.01
0	0	0	260.0800	0.02
0	0	0	261.0800	0.01
0	0	0	262.0800	0.01
0	0	0	263.0800	0.01
0	0	0	264.0800	0.02
0	0	0	265.0800	0.01
0	0	0	266.0800	0.01
0	0	0	267.0800	0.01
0	0	0	268.0800	0.02
0	0	0	269.0800	0.01
0	0	0	270.0800	0.01
0	0	0	271.0800	0.01
0	0	0	272.0800	0.02
0	0	0	273.0800	0.01
0	0	0	274.0800	0.01
0	0	0	275.0800	0.01
0	0	0	276.0800	0.02
0	0	0	277.0800	0.01
0	0	0	278.0800	0.01
0	0	0	279.0800	0.01
0	0	0	280.0800	0.02
0	0	0	281.0800	0.01
0	0	0	282.0800	0.01
0	0	0	283.0800	0.01
0	0	0	284.0800	0.02
0	0	0	285.0800	0.01
0	0	0	286.0800	0.01
0	0	0	287.0800	0.01
0	0	0	288.0800	0.02
0	0	0	289.0800	0.01
0	0	0	290.0800	0.01
0	0	0	291.0800	0.01
0	0	0	292.0800	0.02
0	0	0	293.0800	0.01
0	0	0	294.0800	0.01
0	0	0	295.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	296.0800	0.02
0	0	0	297.0800	0.01
0	0	0	298.0800	0.01
0	0	0	299.0800	0.01
0	0	0	300.0800	0.02
0	0	0	301.0800	0.01
0	0	0	302.0800	0.01
0	0	0	303.0800	0.01
0	0	0	304.0800	0.02
0	0	0	305.0800	0.01
0	0	0	306.0800	0.01
0	0	0	307.0800	0.01
0	0	0	308.0800	0.02
0	0	0	309.0800	0.01
0	0	0	310.0800	0.01
0	0	0	311.0800	0.01
0	0	0	312.0800	0.02
0	0	0	313.0800	0.01
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.02
0	0	0	317.0800	0.01
0	0	0	318.0800	0.01
0	0	0	319.0800	0.01
0	0	0	320.0800	0.02
0	0	0	321.0800	0.01
0	0	0	322.0800	0.01
0	0	0	323.0800	0.01
0	0	0	324.0800	0.02
0	0	0	325.0800	0.01
0	0	0	326.0800	0.01
0	0	0	327.0800	0.01
0	0	0	328.0800	0.02
0	0	0	329.0800	0.01
0	0	0	330.0800	0.01
0	0	0	331.0800	0.01
0	0	0	332.0800	0.02
0	0	0	333.0800	0.01
0	0	0	334.0800	0.01
0	0	0	335.0800	0.01
0	0	0	336.0800	0.02
0	0	0	337.0800	0.01
0	0	0	338.0800	0.01
0	0	0	339.0800	0.01
0	0	0	340.0800	0.02
0	0	0	341.0800	0.01
0	0	0	342.0800	0.01
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	345.0800	0.01
0	0	0	346.0800	0.01
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.01
0	0	0	350.0800	0.01
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.01
0	0	0	354.0800	0.01
0	0	0	355.0800	0.01
0	0	0	356.0800	0.01
0	0	0	357.0800	0.01
0	0	0	358.0800	0.01
0	0	0	359.0800	0.01
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 16

Rating Curve: CS-7

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.00
0	0	0	7.0000	0.00
0	0	0	7.5000	0.00
0	0	0	8.0000	0.00
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.01
0	0	0	10.0000	0.01
0	0	0	10.5000	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	11.0000	0.01
0	0	0	11.5000	0.01
0	0	0	12.0000	0.01
0	0	0	12.5000	0.01
0	0	0	13.0000	0.01
0	0	0	13.5000	0.01
0	0	0	14.0000	0.02
0	0	0	14.5000	0.02
0	0	0	15.0000	0.02
0	0	0	15.5000	0.02
0	0	0	16.0000	0.02
0	0	0	16.5000	0.02
0	0	0	17.0000	0.02
0	0	0	17.5000	0.02
0	0	0	18.0000	0.02
0	0	0	18.5000	0.02
0	0	0	19.0000	0.03
0	0	0	19.5000	0.03
0	0	0	20.0000	0.03
0	0	0	20.5000	0.03
0	0	0	21.0000	0.03
0	0	0	21.5000	0.03
0	0	0	22.0000	0.03
0	0	0	22.5000	0.03
0	0	0	23.0000	0.03
0	0	0	23.5000	0.03
0	0	0	24.0000	0.03
0	0	0	24.5000	0.04
0	0	0	25.0000	0.04
0	0	0	25.5000	0.04
0	0	0	26.0000	0.04
0	0	0	26.5000	0.04
0	0	0	27.0000	0.04
0	0	0	27.5000	0.05
0	0	0	28.0000	0.05
0	0	0	28.5000	0.05
0	0	0	29.0000	0.05
0	0	0	29.5000	0.05
0	0	0	30.0000	0.05
0	0	0	30.5000	0.05
0	0	0	31.0000	0.05
0	0	0	31.5000	0.06
0	0	0	32.0000	0.06
0	0	0	32.5000	0.06
0	0	0	33.0000	0.06
0	0	0	33.5000	0.06
0	0	0	34.0000	0.06
0	0	0	34.5000	0.06
0	0	0	35.0000	0.06

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	35.5000	0.06
0	0	0	36.0000	0.07
0	0	0	36.5000	0.07
0	0	0	37.0000	0.07
0	0	0	37.5000	0.07
0	0	0	38.0000	0.07
0	0	0	38.5000	0.07
0	0	0	39.0000	0.07
0	0	0	39.5000	0.07
0	0	0	40.0000	0.07
0	0	0	40.5000	0.07
0	0	0	41.0000	0.07
0	0	0	41.5000	0.07
0	0	0	42.0000	0.07
0	0	0	42.5000	0.07
0	0	0	43.0000	0.07
0	0	0	43.5000	0.07
0	0	0	44.0000	0.07
0	0	0	44.5000	0.07
0	0	0	45.0000	0.07
0	0	0	45.5000	0.07
0	0	0	46.0000	0.07
0	0	0	46.5000	0.07
0	0	0	47.0000	0.07
0	0	0	47.5000	0.07
0	0	0	48.0000	0.07
0	0	0	48.5000	0.08
0	0	0	48.7500	0.08
0	0	0	49.0000	0.08
0	0	0	49.2500	0.08
0	0	0	49.5000	0.08
0	0	0	49.7500	0.08
0	0	0	50.0000	0.08
0	0	0	50.2500	0.08
0	0	0	50.5000	0.08
0	0	0	50.7500	0.08
0	0	0	51.0000	0.08
0	0	0	51.2500	0.08
0	0	0	51.5000	0.08
0	0	0	51.7500	0.08
0	0	0	52.0000	0.08
0	0	0	52.2500	0.09
0	0	0	52.5000	0.09
0	0	0	52.7500	0.09
0	0	0	53.0000	0.09
0	0	0	53.2500	0.09
0	0	0	53.5000	0.10
0	0	0	53.7500	0.10
0	0	0	54.0000	0.10

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	54.2500	0.10
0	0	0	54.5000	0.11
0	0	0	54.7500	0.11
0	0	0	55.0000	0.12
0	0	0	55.2500	0.12
0	0	0	55.4200	0.12
0	0	0	55.5800	0.13
0	0	0	55.7500	0.13
0	0	0	55.9200	0.13
0	0	0	56.0800	0.13
0	0	0	56.2500	0.14
0	0	0	56.4200	0.14
0	0	0	56.5800	0.14
0	0	0	56.7500	0.15
0	0	0	56.9200	0.15
0	0	0	57.0800	0.16
0	0	0	57.2500	0.16
0	0	0	57.4200	0.16
0	0	0	57.5800	0.17
0	0	0	57.7500	0.17
0	0	0	57.9200	0.18
0	0	0	58.0800	0.18
0	0	0	58.2500	0.19
0	0	0	58.4200	0.20
0	0	0	58.5800	0.20
0	0	0	58.7500	0.21
0	0	0	58.9200	0.22
0	0	0	59.0800	0.23
0	0	0	59.2500	0.24
0	0	0	59.4200	0.26
0	0	0	59.5800	0.29
0	0	0	59.7500	0.98
0	0	0	59.9200	2.24
0	0	0	60.0800	3.26
0	0	0	60.2500	3.16
0	0	0	60.4200	2.72
0	0	0	60.5800	2.35
0	0	0	60.7500	1.98
0	0	0	60.9200	1.67
0	0	0	61.0800	1.44
0	0	0	61.3300	1.16
0	0	0	61.5800	0.96
0	0	0	61.8300	0.82
0	0	0	62.0800	0.71
0	0	0	62.3300	0.61
0	0	0	62.5800	0.53
0	0	0	62.8300	0.47
0	0	0	63.0800	0.42
0	0	0	63.3300	0.38

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	63.5800	0.35
0	0	0	63.8300	0.33
0	0	0	64.0800	0.31
0	0	0	64.3300	0.27
0	0	0	64.5800	0.24
0	0	0	64.8300	0.21
0	0	0	65.0800	0.19
0	0	0	65.3300	0.17
0	0	0	65.5800	0.14
0	0	0	65.8300	0.15
0	0	0	66.0800	0.13
0	0	0	66.3300	0.11
0	0	0	66.5800	0.13
0	0	0	66.8300	0.10
0	0	0	67.0800	0.12
0	0	0	67.3300	0.09
0	0	0	67.5800	0.12
0	0	0	67.8300	0.14
0	0	0	68.0800	0.09
0	0	0	68.3300	0.11
0	0	0	68.5800	0.11
0	0	0	68.8300	0.03
0	0	0	69.0800	0.07
0	0	0	69.3300	0.10
0	0	0	69.5800	0.11
0	0	0	69.8300	0.01
0	0	0	70.0800	0.07
0	0	0	70.3300	0.10
0	0	0	70.5800	0.11
0	0	0	70.8300	0.01
0	0	0	71.0800	0.07
0	0	0	71.3300	0.10
0	0	0	71.5800	0.11
0	0	0	71.8300	0.11
0	0	0	72.0800	0.11
0	0	0	73.0800	-0.04
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.04
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.04
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	87.0800	0.04
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.04
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.04
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.04
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.04
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.04
0	0	0	105.0800	0.00
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.03
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.03
0	0	0	113.0800	0.01
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.02
0	0	0	117.0800	0.01
0	0	0	118.0800	0.00
0	0	0	119.0800	0.00
0	0	0	120.0800	0.02
0	0	0	121.0800	0.01
0	0	0	122.0800	0.01
0	0	0	123.0800	0.02
0	0	0	124.0800	0.01
0	0	0	125.0800	0.01
0	0	0	126.0800	0.00
0	0	0	127.0800	0.02
0	0	0	128.0800	0.01
0	0	0	129.0800	0.01
0	0	0	130.0800	0.00
0	0	0	131.0800	0.02
0	0	0	132.0800	0.01
0	0	0	133.0800	0.01
0	0	0	134.0800	0.00
0	0	0	135.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	136.0800	0.01
0	0	0	137.0800	0.01
0	0	0	138.0800	0.00
0	0	0	139.0800	0.02
0	0	0	140.0800	0.01
0	0	0	141.0800	0.01
0	0	0	142.0800	0.00
0	0	0	143.0800	0.02
0	0	0	144.0800	0.01
0	0	0	145.0800	0.01
0	0	0	146.0800	0.00
0	0	0	147.0800	0.02
0	0	0	148.0800	0.01
0	0	0	149.0800	0.01
0	0	0	150.0800	0.00
0	0	0	151.0800	0.02
0	0	0	152.0800	0.01
0	0	0	153.0800	0.01
0	0	0	154.0800	0.02
0	0	0	155.0800	0.01
0	0	0	156.0800	0.01
0	0	0	157.0800	0.00
0	0	0	158.0800	0.02
0	0	0	159.0800	0.01
0	0	0	160.0800	0.01
0	0	0	161.0800	0.00
0	0	0	162.0800	0.02
0	0	0	163.0800	0.01
0	0	0	164.0800	0.01
0	0	0	165.0800	0.00
0	0	0	166.0800	0.02
0	0	0	167.0800	0.01
0	0	0	168.0800	0.01
0	0	0	169.0800	0.00
0	0	0	170.0800	0.02
0	0	0	171.0800	0.01
0	0	0	172.0800	0.01
0	0	0	173.0800	0.00
0	0	0	174.0800	0.02
0	0	0	175.0800	0.01
0	0	0	176.0800	0.01
0	0	0	177.0800	0.00
0	0	0	178.0800	0.02
0	0	0	179.0800	0.01
0	0	0	180.0800	0.01
0	0	0	181.0800	0.00
0	0	0	182.0800	0.02
0	0	0	183.0800	0.01
0	0	0	184.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	185.0800	0.00
0	0	0	186.0800	0.02
0	0	0	187.0800	0.01
0	0	0	188.0800	0.01
0	0	0	189.0800	0.02
0	0	0	190.0800	0.01
0	0	0	191.0800	0.01
0	0	0	192.0800	0.00
0	0	0	193.0800	0.02
0	0	0	194.0800	0.01
0	0	0	195.0800	0.01
0	0	0	196.0800	0.00
0	0	0	197.0800	0.02
0	0	0	198.0800	0.01
0	0	0	199.0800	0.01
0	0	0	200.0800	0.00
0	0	0	201.0800	0.02
0	0	0	202.0800	0.01
0	0	0	203.0800	0.01
0	0	0	204.0800	0.00
0	0	0	205.0800	0.02
0	0	0	206.0800	0.01
0	0	0	207.0800	0.01
0	0	0	208.0800	0.00
0	0	0	209.0800	0.02
0	0	0	210.0800	0.01
0	0	0	211.0800	0.01
0	0	0	212.0800	0.00
0	0	0	213.0800	0.02
0	0	0	214.0800	0.01
0	0	0	215.0800	0.01
0	0	0	216.0800	0.00
0	0	0	217.0800	0.02
0	0	0	218.0800	0.01
0	0	0	219.0800	0.01
0	0	0	220.0800	0.00
0	0	0	221.0800	0.02
0	0	0	222.0800	0.01
0	0	0	223.0800	0.01
0	0	0	224.0800	0.02
0	0	0	225.0800	0.01
0	0	0	226.0800	0.01
0	0	0	227.0800	0.00
0	0	0	228.0800	0.02
0	0	0	229.0800	0.01
0	0	0	230.0800	0.01
0	0	0	231.0800	0.00
0	0	0	232.0800	0.02
0	0	0	233.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	234.0800	0.01
0	0	0	235.0800	0.00
0	0	0	236.0800	0.02
0	0	0	237.0800	0.01
0	0	0	238.0800	0.01
0	0	0	239.0800	0.00
0	0	0	240.0800	0.02
0	0	0	241.0800	0.01
0	0	0	242.0800	0.01
0	0	0	243.0800	0.00
0	0	0	244.0800	0.02
0	0	0	245.0800	0.01
0	0	0	246.0800	0.01
0	0	0	247.0800	0.00
0	0	0	248.0800	0.02
0	0	0	249.0800	0.01
0	0	0	250.0800	0.01
0	0	0	251.0800	0.00
0	0	0	252.0800	0.02
0	0	0	253.0800	0.01
0	0	0	254.0800	0.01
0	0	0	255.0800	0.00
0	0	0	256.0800	0.02
0	0	0	257.0800	0.01
0	0	0	258.0800	0.01
0	0	0	259.0800	0.00
0	0	0	260.0800	0.02
0	0	0	261.0800	0.01
0	0	0	262.0800	0.01
0	0	0	263.0800	0.00
0	0	0	264.0800	0.02
0	0	0	265.0800	0.01
0	0	0	266.0800	0.01
0	0	0	267.0800	0.00
0	0	0	268.0800	0.02
0	0	0	269.0800	0.01
0	0	0	270.0800	0.01
0	0	0	271.0800	0.00
0	0	0	272.0800	0.02
0	0	0	273.0800	0.01
0	0	0	274.0800	0.01
0	0	0	275.0800	0.00
0	0	0	276.0800	0.02
0	0	0	277.0800	0.01
0	0	0	278.0800	0.01
0	0	0	279.0800	0.00
0	0	0	280.0800	0.02
0	0	0	281.0800	0.01
0	0	0	282.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	283.0800	0.00
0	0	0	284.0800	0.02
0	0	0	285.0800	0.01
0	0	0	286.0800	0.01
0	0	0	287.0800	0.00
0	0	0	288.0800	0.01
0	0	0	289.0800	0.01
0	0	0	290.0800	0.01
0	0	0	291.0800	0.00
0	0	0	292.0800	0.01
0	0	0	293.0800	0.01
0	0	0	294.0800	0.01
0	0	0	295.0800	0.00
0	0	0	296.0800	0.01
0	0	0	297.0800	0.01
0	0	0	298.0800	0.01
0	0	0	299.0800	0.00
0	0	0	300.0800	0.01
0	0	0	301.0800	0.01
0	0	0	302.0800	0.01
0	0	0	303.0800	0.00
0	0	0	304.0800	0.01
0	0	0	305.0800	0.01
0	0	0	306.0800	0.01
0	0	0	307.0800	0.00
0	0	0	308.0800	0.01
0	0	0	309.0800	0.01
0	0	0	310.0800	0.01
0	0	0	311.0800	0.00
0	0	0	312.0800	0.01
0	0	0	313.0800	0.01
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.01
0	0	0	317.0800	0.01
0	0	0	318.0800	0.01
0	0	0	319.0800	0.01
0	0	0	320.0800	0.01
0	0	0	321.0800	0.01
0	0	0	322.0800	0.01
0	0	0	323.0800	0.01
0	0	0	324.0800	0.01
0	0	0	325.0800	0.01
0	0	0	326.0800	0.01
0	0	0	327.0800	0.01
0	0	0	328.0800	0.01
0	0	0	329.0800	0.01
0	0	0	330.0800	0.01
0	0	0	331.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	332.0800	0.01
0	0	0	333.0800	0.01
0	0	0	334.0800	0.01
0	0	0	335.0800	0.01
0	0	0	336.0800	0.01
0	0	0	337.0800	0.01
0	0	0	338.0800	0.01
0	0	0	339.0800	0.01
0	0	0	340.0800	0.01
0	0	0	341.0800	0.01
0	0	0	342.0800	0.01
0	0	0	343.0800	0.01
0	0	0	344.0800	0.00
0	0	0	345.0800	0.01
0	0	0	346.0800	0.01
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.01
0	0	0	350.0800	0.01
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.01
0	0	0	354.0800	0.01
0	0	0	355.0800	0.01
0	0	0	356.0800	0.01
0	0	0	357.0800	0.01
0	0	0	358.0800	0.01
0	0	0	359.0800	0.01
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 7

Rating Curve: CS-8

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.00
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.01
0	0	0	10.0000	0.01
0	0	0	10.5000	0.01
0	0	0	11.0000	0.02
0	0	0	11.5000	0.02
0	0	0	12.0000	0.02
0	0	0	12.5000	0.02
0	0	0	13.0000	0.02
0	0	0	13.5000	0.02
0	0	0	14.0000	0.02
0	0	0	14.5000	0.03
0	0	0	15.0000	0.03
0	0	0	15.5000	0.03
0	0	0	16.0000	0.03
0	0	0	16.5000	0.03
0	0	0	17.0000	0.03
0	0	0	17.5000	0.04
0	0	0	18.0000	0.04
0	0	0	18.5000	0.04
0	0	0	19.0000	0.04
0	0	0	19.5000	0.04
0	0	0	20.0000	0.04
0	0	0	20.5000	0.04
0	0	0	21.0000	0.05
0	0	0	21.5000	0.05
0	0	0	22.0000	0.05
0	0	0	22.5000	0.05
0	0	0	23.0000	0.05
0	0	0	23.5000	0.05
0	0	0	24.0000	0.05
0	0	0	24.5000	0.05
0	0	0	25.0000	0.06
0	0	0	25.5000	0.06
0	0	0	26.0000	0.06
0	0	0	26.5000	0.07
0	0	0	27.0000	0.07
0	0	0	27.5000	0.07
0	0	0	28.0000	0.07
0	0	0	28.5000	0.07

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	29.0000	0.08
0	0	0	29.5000	0.08
0	0	0	30.0000	0.08
0	0	0	30.5000	0.08
0	0	0	31.0000	0.09
0	0	0	31.5000	0.09
0	0	0	32.0000	0.09
0	0	0	32.5000	0.09
0	0	0	33.0000	0.09
0	0	0	33.5000	0.09
0	0	0	34.0000	0.10
0	0	0	34.5000	0.10
0	0	0	35.0000	0.10
0	0	0	35.5000	0.10
0	0	0	36.0000	0.10
0	0	0	36.5000	0.10
0	0	0	37.0000	0.10
0	0	0	37.5000	0.10
0	0	0	38.0000	0.11
0	0	0	38.5000	0.11
0	0	0	39.0000	0.11
0	0	0	39.5000	0.11
0	0	0	40.0000	0.11
0	0	0	40.5000	0.11
0	0	0	41.0000	0.11
0	0	0	41.5000	0.11
0	0	0	42.0000	0.11
0	0	0	42.5000	0.11
0	0	0	43.0000	0.11
0	0	0	43.5000	0.11
0	0	0	44.0000	0.11
0	0	0	44.5000	0.11
0	0	0	45.0000	0.11
0	0	0	45.5000	0.11
0	0	0	46.0000	0.11
0	0	0	46.5000	0.12
0	0	0	47.0000	0.12
0	0	0	47.5000	0.12
0	0	0	48.0000	0.12
0	0	0	48.5000	0.12
0	0	0	48.7500	0.12
0	0	0	49.0000	0.12
0	0	0	49.2500	0.12
0	0	0	49.5000	0.12
0	0	0	49.7500	0.12
0	0	0	50.0000	0.12
0	0	0	50.2500	0.12
0	0	0	50.5000	0.12
0	0	0	50.7500	0.12

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	51.0000	0.12
0	0	0	51.2500	0.13
0	0	0	51.5000	0.13
0	0	0	51.7500	0.13
0	0	0	52.0000	0.13
0	0	0	52.2500	0.13
0	0	0	52.5000	0.14
0	0	0	52.7500	0.14
0	0	0	53.0000	0.14
0	0	0	53.2500	0.14
0	0	0	53.5000	0.15
0	0	0	53.7500	0.15
0	0	0	54.0000	0.16
0	0	0	54.2500	0.16
0	0	0	54.5000	0.17
0	0	0	54.7500	0.17
0	0	0	55.0000	0.18
0	0	0	55.2500	0.18
0	0	0	55.4200	0.19
0	0	0	55.5800	0.19
0	0	0	55.7500	0.20
0	0	0	55.9200	0.20
0	0	0	56.0800	0.21
0	0	0	56.2500	0.21
0	0	0	56.4200	0.22
0	0	0	56.5800	0.22
0	0	0	56.7500	0.23
0	0	0	56.9200	0.23
0	0	0	57.0800	0.24
0	0	0	57.2500	0.25
0	0	0	57.4200	0.25
0	0	0	57.5800	0.26
0	0	0	57.7500	0.27
0	0	0	57.9200	0.28
0	0	0	58.0800	0.28
0	0	0	58.2500	0.29
0	0	0	58.4200	0.30
0	0	0	58.5800	0.31
0	0	0	58.7500	0.32
0	0	0	58.9200	0.34
0	0	0	59.0800	0.35
0	0	0	59.2500	0.37
0	0	0	59.4200	0.40
0	0	0	59.5800	0.45
0	0	0	59.7500	1.51
0	0	0	59.9200	3.46
0	0	0	60.0800	5.05
0	0	0	60.2500	4.89
0	0	0	60.4200	4.22

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	60.5800	3.63
0	0	0	60.7500	3.06
0	0	0	60.9200	2.59
0	0	0	61.0800	2.23
0	0	0	61.3300	1.80
0	0	0	61.5800	1.49
0	0	0	61.8300	1.26
0	0	0	62.0800	1.09
0	0	0	62.3300	0.94
0	0	0	62.5800	0.82
0	0	0	62.8300	0.72
0	0	0	63.0800	0.65
0	0	0	63.3300	0.59
0	0	0	63.5800	0.55
0	0	0	63.8300	0.50
0	0	0	64.0800	0.48
0	0	0	64.3300	0.43
0	0	0	64.5800	0.37
0	0	0	64.8300	0.33
0	0	0	65.0800	0.29
0	0	0	65.3300	0.26
0	0	0	65.5800	0.22
0	0	0	65.8300	0.23
0	0	0	66.0800	0.20
0	0	0	66.3300	0.17
0	0	0	66.5800	0.19
0	0	0	66.8300	0.15
0	0	0	67.0800	0.19
0	0	0	67.3300	0.14
0	0	0	67.5800	0.18
0	0	0	67.8300	0.22
0	0	0	68.0800	0.14
0	0	0	68.3300	0.16
0	0	0	68.5800	0.17
0	0	0	68.8300	0.04
0	0	0	69.0800	0.11
0	0	0	69.3300	0.15
0	0	0	69.5800	0.16
0	0	0	69.8300	0.02
0	0	0	70.0800	0.11
0	0	0	70.3300	0.15
0	0	0	70.5800	0.17
0	0	0	70.8300	0.01
0	0	0	71.0800	0.11
0	0	0	71.3300	0.15
0	0	0	71.5800	0.17
0	0	0	71.8300	0.18
0	0	0	72.0800	0.17
0	0	0	73.0800	-0.07

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.07
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.07
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.07
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.07
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.06
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.06
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.06
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.06
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.05
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.04
0	0	0	113.0800	0.01
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.04
0	0	0	117.0800	0.02
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.03
0	0	0	121.0800	0.02
0	0	0	122.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	123.0800	0.04
0	0	0	124.0800	0.02
0	0	0	125.0800	0.01
0	0	0	126.0800	0.01
0	0	0	127.0800	0.03
0	0	0	128.0800	0.02
0	0	0	129.0800	0.01
0	0	0	130.0800	0.01
0	0	0	131.0800	0.03
0	0	0	132.0800	0.02
0	0	0	133.0800	0.01
0	0	0	134.0800	0.01
0	0	0	135.0800	0.03
0	0	0	136.0800	0.02
0	0	0	137.0800	0.01
0	0	0	138.0800	0.01
0	0	0	139.0800	0.03
0	0	0	140.0800	0.02
0	0	0	141.0800	0.01
0	0	0	142.0800	0.01
0	0	0	143.0800	0.03
0	0	0	144.0800	0.02
0	0	0	145.0800	0.01
0	0	0	146.0800	0.01
0	0	0	147.0800	0.03
0	0	0	148.0800	0.02
0	0	0	149.0800	0.01
0	0	0	150.0800	0.01
0	0	0	151.0800	0.03
0	0	0	152.0800	0.02
0	0	0	153.0800	0.01
0	0	0	154.0800	0.03
0	0	0	155.0800	0.02
0	0	0	156.0800	0.01
0	0	0	157.0800	0.01
0	0	0	158.0800	0.03
0	0	0	159.0800	0.02
0	0	0	160.0800	0.01
0	0	0	161.0800	0.01
0	0	0	162.0800	0.03
0	0	0	163.0800	0.02
0	0	0	164.0800	0.01
0	0	0	165.0800	0.01
0	0	0	166.0800	0.03
0	0	0	167.0800	0.02
0	0	0	168.0800	0.01
0	0	0	169.0800	0.01
0	0	0	170.0800	0.03
0	0	0	171.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	172.0800	0.01
0	0	0	173.0800	0.01
0	0	0	174.0800	0.03
0	0	0	175.0800	0.02
0	0	0	176.0800	0.01
0	0	0	177.0800	0.01
0	0	0	178.0800	0.03
0	0	0	179.0800	0.02
0	0	0	180.0800	0.01
0	0	0	181.0800	0.01
0	0	0	182.0800	0.03
0	0	0	183.0800	0.02
0	0	0	184.0800	0.01
0	0	0	185.0800	0.01
0	0	0	186.0800	0.03
0	0	0	187.0800	0.02
0	0	0	188.0800	0.01
0	0	0	189.0800	0.03
0	0	0	190.0800	0.02
0	0	0	191.0800	0.01
0	0	0	192.0800	0.01
0	0	0	193.0800	0.03
0	0	0	194.0800	0.02
0	0	0	195.0800	0.01
0	0	0	196.0800	0.01
0	0	0	197.0800	0.03
0	0	0	198.0800	0.02
0	0	0	199.0800	0.01
0	0	0	200.0800	0.01
0	0	0	201.0800	0.03
0	0	0	202.0800	0.02
0	0	0	203.0800	0.01
0	0	0	204.0800	0.01
0	0	0	205.0800	0.03
0	0	0	206.0800	0.02
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.03
0	0	0	210.0800	0.02
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.03
0	0	0	214.0800	0.02
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.03
0	0	0	218.0800	0.02
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	221.0800	0.03
0	0	0	222.0800	0.02
0	0	0	223.0800	0.01
0	0	0	224.0800	0.03
0	0	0	225.0800	0.02
0	0	0	226.0800	0.01
0	0	0	227.0800	0.01
0	0	0	228.0800	0.03
0	0	0	229.0800	0.02
0	0	0	230.0800	0.01
0	0	0	231.0800	0.01
0	0	0	232.0800	0.03
0	0	0	233.0800	0.02
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.03
0	0	0	237.0800	0.02
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.03
0	0	0	241.0800	0.02
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01
0	0	0	244.0800	0.03
0	0	0	245.0800	0.02
0	0	0	246.0800	0.01
0	0	0	247.0800	0.01
0	0	0	248.0800	0.03
0	0	0	249.0800	0.02
0	0	0	250.0800	0.01
0	0	0	251.0800	0.01
0	0	0	252.0800	0.03
0	0	0	253.0800	0.02
0	0	0	254.0800	0.01
0	0	0	255.0800	0.01
0	0	0	256.0800	0.03
0	0	0	257.0800	0.02
0	0	0	258.0800	0.01
0	0	0	259.0800	0.01
0	0	0	260.0800	0.03
0	0	0	261.0800	0.02
0	0	0	262.0800	0.01
0	0	0	263.0800	0.01
0	0	0	264.0800	0.02
0	0	0	265.0800	0.02
0	0	0	266.0800	0.01
0	0	0	267.0800	0.01
0	0	0	268.0800	0.02
0	0	0	269.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	270.0800	0.01
0	0	0	271.0800	0.01
0	0	0	272.0800	0.02
0	0	0	273.0800	0.02
0	0	0	274.0800	0.01
0	0	0	275.0800	0.01
0	0	0	276.0800	0.02
0	0	0	277.0800	0.02
0	0	0	278.0800	0.01
0	0	0	279.0800	0.01
0	0	0	280.0800	0.02
0	0	0	281.0800	0.02
0	0	0	282.0800	0.01
0	0	0	283.0800	0.01
0	0	0	284.0800	0.02
0	0	0	285.0800	0.02
0	0	0	286.0800	0.01
0	0	0	287.0800	0.01
0	0	0	288.0800	0.02
0	0	0	289.0800	0.02
0	0	0	290.0800	0.01
0	0	0	291.0800	0.01
0	0	0	292.0800	0.02
0	0	0	293.0800	0.02
0	0	0	294.0800	0.01
0	0	0	295.0800	0.01
0	0	0	296.0800	0.02
0	0	0	297.0800	0.02
0	0	0	298.0800	0.01
0	0	0	299.0800	0.01
0	0	0	300.0800	0.02
0	0	0	301.0800	0.02
0	0	0	302.0800	0.01
0	0	0	303.0800	0.01
0	0	0	304.0800	0.02
0	0	0	305.0800	0.02
0	0	0	306.0800	0.01
0	0	0	307.0800	0.01
0	0	0	308.0800	0.02
0	0	0	309.0800	0.02
0	0	0	310.0800	0.01
0	0	0	311.0800	0.01
0	0	0	312.0800	0.02
0	0	0	313.0800	0.02
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.02
0	0	0	317.0800	0.02
0	0	0	318.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	319.0800	0.01
0	0	0	320.0800	0.02
0	0	0	321.0800	0.02
0	0	0	322.0800	0.01
0	0	0	323.0800	0.01
0	0	0	324.0800	0.02
0	0	0	325.0800	0.02
0	0	0	326.0800	0.01
0	0	0	327.0800	0.01
0	0	0	328.0800	0.02
0	0	0	329.0800	0.01
0	0	0	330.0800	0.01
0	0	0	331.0800	0.01
0	0	0	332.0800	0.02
0	0	0	333.0800	0.01
0	0	0	334.0800	0.01
0	0	0	335.0800	0.01
0	0	0	336.0800	0.02
0	0	0	337.0800	0.01
0	0	0	338.0800	0.01
0	0	0	339.0800	0.01
0	0	0	340.0800	0.02
0	0	0	341.0800	0.01
0	0	0	342.0800	0.01
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.02
0	0	0	346.0800	0.01
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.02
0	0	0	350.0800	0.01
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.02
0	0	0	354.0800	0.01
0	0	0	355.0800	0.01
0	0	0	356.0800	0.01
0	0	0	357.0800	0.01
0	0	0	358.0800	0.01
0	0	0	359.0800	0.01
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 8

Rating Curve: CS-9

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.01
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.02
0	0	0	9.0000	0.02
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.03
0	0	0	11.0000	0.03
0	0	0	11.5000	0.03
0	0	0	12.0000	0.04
0	0	0	12.5000	0.04
0	0	0	13.0000	0.04
0	0	0	13.5000	0.05
0	0	0	14.0000	0.05
0	0	0	14.5000	0.05
0	0	0	15.0000	0.05
0	0	0	15.5000	0.06
0	0	0	16.0000	0.06
0	0	0	16.5000	0.06
0	0	0	17.0000	0.07
0	0	0	17.5000	0.07
0	0	0	18.0000	0.07
0	0	0	18.5000	0.08
0	0	0	19.0000	0.08
0	0	0	19.5000	0.08
0	0	0	20.0000	0.08
0	0	0	20.5000	0.09
0	0	0	21.0000	0.09
0	0	0	21.5000	0.09
0	0	0	22.0000	0.09
0	0	0	22.5000	0.10

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	23.0000	0.10
0	0	0	23.5000	0.10
0	0	0	24.0000	0.10
0	0	0	24.5000	0.11
0	0	0	25.0000	0.11
0	0	0	25.5000	0.12
0	0	0	26.0000	0.12
0	0	0	26.5000	0.13
0	0	0	27.0000	0.13
0	0	0	27.5000	0.14
0	0	0	28.0000	0.14
0	0	0	28.5000	0.15
0	0	0	29.0000	0.15
0	0	0	29.5000	0.16
0	0	0	30.0000	0.16
0	0	0	30.5000	0.16
0	0	0	31.0000	0.17
0	0	0	31.5000	0.17
0	0	0	32.0000	0.17
0	0	0	32.5000	0.18
0	0	0	33.0000	0.18
0	0	0	33.5000	0.18
0	0	0	34.0000	0.19
0	0	0	34.5000	0.19
0	0	0	35.0000	0.19
0	0	0	35.5000	0.19
0	0	0	36.0000	0.20
0	0	0	36.5000	0.20
0	0	0	37.0000	0.20
0	0	0	37.5000	0.20
0	0	0	38.0000	0.21
0	0	0	38.5000	0.21
0	0	0	39.0000	0.21
0	0	0	39.5000	0.21
0	0	0	40.0000	0.21
0	0	0	40.5000	0.21
0	0	0	41.0000	0.22
0	0	0	41.5000	0.22
0	0	0	42.0000	0.22
0	0	0	42.5000	0.22
0	0	0	43.0000	0.22
0	0	0	43.5000	0.22
0	0	0	44.0000	0.22
0	0	0	44.5000	0.22
0	0	0	45.0000	0.22
0	0	0	45.5000	0.22
0	0	0	46.0000	0.22
0	0	0	46.5000	0.23
0	0	0	47.0000	0.23

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	47.5000	0.23
0	0	0	48.0000	0.23
0	0	0	48.5000	0.23
0	0	0	48.7500	0.23
0	0	0	49.0000	0.23
0	0	0	49.2500	0.23
0	0	0	49.5000	0.23
0	0	0	49.7500	0.23
0	0	0	50.0000	0.24
0	0	0	50.2500	0.23
0	0	0	50.5000	0.24
0	0	0	50.7500	0.24
0	0	0	51.0000	0.24
0	0	0	51.2500	0.25
0	0	0	51.5000	0.25
0	0	0	51.7500	0.25
0	0	0	52.0000	0.25
0	0	0	52.2500	0.26
0	0	0	52.5000	0.27
0	0	0	52.7500	0.27
0	0	0	53.0000	0.27
0	0	0	53.2500	0.28
0	0	0	53.5000	0.29
0	0	0	53.7500	0.30
0	0	0	54.0000	0.31
0	0	0	54.2500	0.32
0	0	0	54.5000	0.33
0	0	0	54.7500	0.34
0	0	0	55.0000	0.35
0	0	0	55.2500	0.36
0	0	0	55.4200	0.37
0	0	0	55.5800	0.38
0	0	0	55.7500	0.39
0	0	0	55.9200	0.40
0	0	0	56.0800	0.41
0	0	0	56.2500	0.41
0	0	0	56.4200	0.43
0	0	0	56.5800	0.44
0	0	0	56.7500	0.45
0	0	0	56.9200	0.46
0	0	0	57.0800	0.47
0	0	0	57.2500	0.48
0	0	0	57.4200	0.50
0	0	0	57.5800	0.51
0	0	0	57.7500	0.52
0	0	0	57.9200	0.54
0	0	0	58.0800	0.55
0	0	0	58.2500	0.57
0	0	0	58.4200	0.59

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	58.5800	0.61
0	0	0	58.7500	0.63
0	0	0	58.9200	0.66
0	0	0	59.0800	0.69
0	0	0	59.2500	0.73
0	0	0	59.4200	0.78
0	0	0	59.5800	0.88
0	0	0	59.7500	2.96
0	0	0	59.9200	6.77
0	0	0	60.0800	9.89
0	0	0	60.2500	9.58
0	0	0	60.4200	8.25
0	0	0	60.5800	7.11
0	0	0	60.7500	5.99
0	0	0	60.9200	5.07
0	0	0	61.0800	4.37
0	0	0	61.3300	3.52
0	0	0	61.5800	2.92
0	0	0	61.8300	2.48
0	0	0	62.0800	2.14
0	0	0	62.3300	1.84
0	0	0	62.5800	1.61
0	0	0	62.8300	1.41
0	0	0	63.0800	1.27
0	0	0	63.3300	1.15
0	0	0	63.5800	1.07
0	0	0	63.8300	0.99
0	0	0	64.0800	0.93
0	0	0	64.3300	0.83
0	0	0	64.5800	0.73
0	0	0	64.8300	0.65
0	0	0	65.0800	0.58
0	0	0	65.3300	0.51
0	0	0	65.5800	0.44
0	0	0	65.8300	0.46
0	0	0	66.0800	0.39
0	0	0	66.3300	0.33
0	0	0	66.5800	0.38
0	0	0	66.8300	0.30
0	0	0	67.0800	0.37
0	0	0	67.3300	0.27
0	0	0	67.5800	0.36
0	0	0	67.8300	0.42
0	0	0	68.0800	0.28
0	0	0	68.3300	0.32
0	0	0	68.5800	0.33
0	0	0	68.8300	0.08
0	0	0	69.0800	0.22
0	0	0	69.3300	0.29

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	69.5800	0.32
0	0	0	69.8300	0.04
0	0	0	70.0800	0.22
0	0	0	70.3300	0.29
0	0	0	70.5800	0.32
0	0	0	70.8300	0.02
0	0	0	71.0800	0.22
0	0	0	71.3300	0.30
0	0	0	71.5800	0.33
0	0	0	71.8300	0.34
0	0	0	72.0800	0.33
0	0	0	73.0800	-0.13
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.13
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.13
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.13
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.13
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.13
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.12
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.12
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.11
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.10
0	0	0	109.0800	0.02
0	0	0	110.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	111.0800	0.00
0	0	0	112.0800	0.09
0	0	0	113.0800	0.03
0	0	0	114.0800	0.01
0	0	0	115.0800	0.00
0	0	0	116.0800	0.07
0	0	0	117.0800	0.03
0	0	0	118.0800	0.01
0	0	0	119.0800	0.01
0	0	0	120.0800	0.06
0	0	0	121.0800	0.03
0	0	0	122.0800	0.02
0	0	0	123.0800	0.07
0	0	0	124.0800	0.04
0	0	0	125.0800	0.02
0	0	0	126.0800	0.01
0	0	0	127.0800	0.07
0	0	0	128.0800	0.04
0	0	0	129.0800	0.02
0	0	0	130.0800	0.01
0	0	0	131.0800	0.06
0	0	0	132.0800	0.04
0	0	0	133.0800	0.02
0	0	0	134.0800	0.01
0	0	0	135.0800	0.06
0	0	0	136.0800	0.04
0	0	0	137.0800	0.02
0	0	0	138.0800	0.01
0	0	0	139.0800	0.06
0	0	0	140.0800	0.04
0	0	0	141.0800	0.02
0	0	0	142.0800	0.01
0	0	0	143.0800	0.06
0	0	0	144.0800	0.04
0	0	0	145.0800	0.02
0	0	0	146.0800	0.01
0	0	0	147.0800	0.06
0	0	0	148.0800	0.04
0	0	0	149.0800	0.02
0	0	0	150.0800	0.01
0	0	0	151.0800	0.06
0	0	0	152.0800	0.04
0	0	0	153.0800	0.02
0	0	0	154.0800	0.07
0	0	0	155.0800	0.04
0	0	0	156.0800	0.02
0	0	0	157.0800	0.01
0	0	0	158.0800	0.06
0	0	0	159.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	160.0800	0.02
0	0	0	161.0800	0.01
0	0	0	162.0800	0.06
0	0	0	163.0800	0.03
0	0	0	164.0800	0.02
0	0	0	165.0800	0.01
0	0	0	166.0800	0.06
0	0	0	167.0800	0.03
0	0	0	168.0800	0.02
0	0	0	169.0800	0.01
0	0	0	170.0800	0.06
0	0	0	171.0800	0.03
0	0	0	172.0800	0.02
0	0	0	173.0800	0.01
0	0	0	174.0800	0.06
0	0	0	175.0800	0.03
0	0	0	176.0800	0.02
0	0	0	177.0800	0.01
0	0	0	178.0800	0.06
0	0	0	179.0800	0.03
0	0	0	180.0800	0.02
0	0	0	181.0800	0.01
0	0	0	182.0800	0.06
0	0	0	183.0800	0.03
0	0	0	184.0800	0.02
0	0	0	185.0800	0.01
0	0	0	186.0800	0.06
0	0	0	187.0800	0.03
0	0	0	188.0800	0.02
0	0	0	189.0800	0.06
0	0	0	190.0800	0.04
0	0	0	191.0800	0.02
0	0	0	192.0800	0.01
0	0	0	193.0800	0.06
0	0	0	194.0800	0.03
0	0	0	195.0800	0.02
0	0	0	196.0800	0.01
0	0	0	197.0800	0.06
0	0	0	198.0800	0.03
0	0	0	199.0800	0.02
0	0	0	200.0800	0.01
0	0	0	201.0800	0.06
0	0	0	202.0800	0.03
0	0	0	203.0800	0.02
0	0	0	204.0800	0.01
0	0	0	205.0800	0.06
0	0	0	206.0800	0.03
0	0	0	207.0800	0.02
0	0	0	208.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	209.0800	0.06
0	0	0	210.0800	0.03
0	0	0	211.0800	0.02
0	0	0	212.0800	0.01
0	0	0	213.0800	0.06
0	0	0	214.0800	0.03
0	0	0	215.0800	0.02
0	0	0	216.0800	0.01
0	0	0	217.0800	0.06
0	0	0	218.0800	0.03
0	0	0	219.0800	0.02
0	0	0	220.0800	0.01
0	0	0	221.0800	0.05
0	0	0	222.0800	0.03
0	0	0	223.0800	0.02
0	0	0	224.0800	0.06
0	0	0	225.0800	0.04
0	0	0	226.0800	0.02
0	0	0	227.0800	0.01
0	0	0	228.0800	0.05
0	0	0	229.0800	0.03
0	0	0	230.0800	0.02
0	0	0	231.0800	0.01
0	0	0	232.0800	0.05
0	0	0	233.0800	0.03
0	0	0	234.0800	0.02
0	0	0	235.0800	0.01
0	0	0	236.0800	0.05
0	0	0	237.0800	0.03
0	0	0	238.0800	0.02
0	0	0	239.0800	0.01
0	0	0	240.0800	0.05
0	0	0	241.0800	0.03
0	0	0	242.0800	0.02
0	0	0	243.0800	0.01
0	0	0	244.0800	0.05
0	0	0	245.0800	0.03
0	0	0	246.0800	0.02
0	0	0	247.0800	0.01
0	0	0	248.0800	0.05
0	0	0	249.0800	0.03
0	0	0	250.0800	0.02
0	0	0	251.0800	0.01
0	0	0	252.0800	0.05
0	0	0	253.0800	0.03
0	0	0	254.0800	0.02
0	0	0	255.0800	0.01
0	0	0	256.0800	0.05
0	0	0	257.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	258.0800	0.02
0	0	0	259.0800	0.01
0	0	0	260.0800	0.05
0	0	0	261.0800	0.03
0	0	0	262.0800	0.02
0	0	0	263.0800	0.01
0	0	0	264.0800	0.05
0	0	0	265.0800	0.03
0	0	0	266.0800	0.02
0	0	0	267.0800	0.01
0	0	0	268.0800	0.05
0	0	0	269.0800	0.03
0	0	0	270.0800	0.02
0	0	0	271.0800	0.01
0	0	0	272.0800	0.05
0	0	0	273.0800	0.03
0	0	0	274.0800	0.02
0	0	0	275.0800	0.01
0	0	0	276.0800	0.05
0	0	0	277.0800	0.03
0	0	0	278.0800	0.02
0	0	0	279.0800	0.01
0	0	0	280.0800	0.05
0	0	0	281.0800	0.03
0	0	0	282.0800	0.02
0	0	0	283.0800	0.01
0	0	0	284.0800	0.05
0	0	0	285.0800	0.03
0	0	0	286.0800	0.02
0	0	0	287.0800	0.01
0	0	0	288.0800	0.04
0	0	0	289.0800	0.03
0	0	0	290.0800	0.02
0	0	0	291.0800	0.01
0	0	0	292.0800	0.04
0	0	0	293.0800	0.03
0	0	0	294.0800	0.02
0	0	0	295.0800	0.01
0	0	0	296.0800	0.04
0	0	0	297.0800	0.03
0	0	0	298.0800	0.02
0	0	0	299.0800	0.01
0	0	0	300.0800	0.04
0	0	0	301.0800	0.03
0	0	0	302.0800	0.02
0	0	0	303.0800	0.01
0	0	0	304.0800	0.04
0	0	0	305.0800	0.03
0	0	0	306.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	307.0800	0.01
0	0	0	308.0800	0.04
0	0	0	309.0800	0.03
0	0	0	310.0800	0.02
0	0	0	311.0800	0.01
0	0	0	312.0800	0.04
0	0	0	313.0800	0.03
0	0	0	314.0800	0.02
0	0	0	315.0800	0.02
0	0	0	316.0800	0.04
0	0	0	317.0800	0.03
0	0	0	318.0800	0.02
0	0	0	319.0800	0.02
0	0	0	320.0800	0.04
0	0	0	321.0800	0.03
0	0	0	322.0800	0.02
0	0	0	323.0800	0.02
0	0	0	324.0800	0.04
0	0	0	325.0800	0.03
0	0	0	326.0800	0.02
0	0	0	327.0800	0.02
0	0	0	328.0800	0.04
0	0	0	329.0800	0.03
0	0	0	330.0800	0.02
0	0	0	331.0800	0.02
0	0	0	332.0800	0.04
0	0	0	333.0800	0.03
0	0	0	334.0800	0.02
0	0	0	335.0800	0.02
0	0	0	336.0800	0.03
0	0	0	337.0800	0.03
0	0	0	338.0800	0.02
0	0	0	339.0800	0.02
0	0	0	340.0800	0.03
0	0	0	341.0800	0.03
0	0	0	342.0800	0.02
0	0	0	343.0800	0.02
0	0	0	344.0800	0.01
0	0	0	345.0800	0.03
0	0	0	346.0800	0.03
0	0	0	347.0800	0.02
0	0	0	348.0800	0.02
0	0	0	349.0800	0.03
0	0	0	350.0800	0.03
0	0	0	351.0800	0.02
0	0	0	352.0800	0.02
0	0	0	353.0800	0.03
0	0	0	354.0800	0.03
0	0	0	355.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	356.0800	0.02
0	0	0	357.0800	0.03
0	0	0	358.0800	0.03
0	0	0	359.0800	0.02
0	0	0	360.0000	0.02

Comment: Daniels Roadway Control Str# 9

Boundary Stage: Outfall

Boundary Stage Set: 10yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	24.84
0	0	0	19.6000	24.94
0	0	0	312.0000	24.84
0	0	0	9999.0000	24.84

Comment:

Boundary Stage: Outfall

Boundary Stage Set: 25yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	24.84
0	0	0	30.0000	24.94
0	0	0	60.0000	25.34
0	0	0	73.0000	25.92
0	0	0	240.0000	25.36
0	0	0	360.0000	24.96
0	0	0	9999.0000	24.84

Comment:

APPENDIX D- EXISITNG CONDITIONS NODE MAX

Node Max Conditions [Icpr3]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
AirportBasin11	100Y3D	0.00	26.06	0.0001	703.81	0.00	0
DS EAST	100Y3D	0.00	25.92	0.0001	808.73	813.14	5488713
DS NORTH	100Y3D	0.00	25.93	0.0001	499.07	367.67	5916462
DS WEST	100Y3D	0.00	25.92	0.0001	312.14	241.55	4739123
DUMMY 1	100Y3D	0.00	25.92	0.0001	7.98	8.00	2560
DUMMY 2	100Y3D	0.00	25.92	0.0001	8.00	8.09	2668
Daniels Road	100Y3D	0.00	9999.00	0.0000	0.98	75.03	0
EB OUTFALL DUMMY	100Y3D	0.00	25.92	0.0024	42.57	42.87	219
EB TAILWATER	100Y3D	0.00	25.92	0.0001	1066.79	268.77	0
Swale N2	100Y3D	0.00	26.13	0.0003	23.19	23.16	27591
Swale N3	100Y3D	0.00	26.11	0.0003	28.91	28.52	32355
Swale N4	100Y3D	0.00	26.08	0.0007	42.74	42.54	19976
TC COMMERCIAL	100Y3D	0.00	26.17	0.0003	265.82	24.80	1588972
TC TAILWATER	100Y3D	0.00	26.08	0.0001	64.16	0.24	0
WETLAND 1	100Y3D	0.00	26.21	0.0003	2652.80	57.26	18932426
WETLAND 2	100Y3D	0.00	25.92	0.0001	392.33	397.35	2231574
WETLAND 3	100Y3D	0.00	25.92	0.0001	671.48	497.96	3653815
WETLAND 4	100Y3D	0.00	25.92	0.0001	265.61	219.90	1978870
WETLAND 5	100Y3D	0.00	25.92	0.0001	167.01	151.90	1249994
WETLAND 6	100Y3D	0.00	25.92	0.0001	49.16	49.21	373416
WETLAND 7	100Y3D	0.00	25.92	0.0001	1062.05	1058.60	3474408
AirportBasin11	10Y1D	0.00	25.04	0.0000	454.62	0.00	0
DS EAST	10Y1D	0.00	25.57	0.0003	537.83	489.24	2979761
DS NORTH	10Y1D	0.00	25.77	0.0002	272.01	229.26	4246104
DS WEST	10Y1D	0.00	25.59	0.0002	189.27	149.38	3797722
DUMMY 1	10Y1D	0.00	25.52	-0.0010	4.97	5.73	2214
DUMMY 2	10Y1D	0.00	25.51	0.0010	5.73	5.45	2320
Daniels Road	10Y1D	0.00	9999.00	0.0000	0.00	0.79	0
EB OUTFALL DUMMY	10Y1D	0.00	25.07	0.0018	61.58	61.86	219
EB TAILWATER	10Y1D	0.00	24.94	0.0000	618.87	4.63	0
Swale N2	10Y1D	0.00	25.70	0.0003	17.76	17.75	24277
Swale N3	10Y1D	0.00	25.56	0.0002	20.82	20.80	26945
Swale N4	10Y1D	0.00	25.12	0.0000	25.50	25.49	15086
TC COMMERCIAL	10Y1D	0.00	25.78	0.0003	157.37	13.85	1366050
TC TAILWATER	10Y1D	0.00	25.08	0.0000	30.21	0.11	0
WETLAND 1	10Y1D	0.00	25.80	0.0003	1517.86	71.51	17018538

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
WETLAND 2	10Y1D	0.00	25.65	0.0000	245.53	245.39	2035889
WETLAND 3	10Y1D	0.00	25.59	0.0001	404.33	393.39	3600092
WETLAND 4	10Y1D	0.00	25.58	0.0002	320.20	223.53	1969946
WETLAND 5	10Y1D	0.00	25.58	0.0002	144.13	84.96	1237358
WETLAND 6	10Y1D	0.00	25.56	0.0005	130.97	64.96	369083
WETLAND 7	10Y1D	0.00	25.54	0.0005	687.93	613.57	3459711
AirportBasin11	25Y3D	0.00	26.06	0.0001	538.20	0.37	0
DS EAST	25Y3D	0.00	25.92	0.0001	627.04	629.80	5483777
DS NORTH	25Y3D	0.00	25.92	0.0001	373.10	292.27	5798799
DS WEST	25Y3D	0.00	25.92	0.0001	245.91	180.27	4738434
DUMMY 1	25Y3D	0.00	25.92	0.0001	6.66	6.66	2560
DUMMY 2	25Y3D	0.00	25.92	0.0001	6.66	6.66	2668
Daniels Road	25Y3D	0.00	9999.00	0.0000	0.98	75.03	0
EB OUTFALL DUMMY	25Y3D	0.00	25.92	0.0001	37.95	38.00	219
EB TAILWATER	25Y3D	0.00	25.92	0.0001	820.38	288.36	0
Swale N2	25Y3D	0.00	26.07	0.0001	18.39	18.35	27111
Swale N3	25Y3D	0.00	26.07	0.0001	23.84	23.50	31982
Swale N4	25Y3D	0.00	26.08	0.0001	37.71	37.50	19892
TC COMMERCIAL	25Y3D	0.00	26.06	0.0001	206.72	20.90	1554224
TC TAILWATER	25Y3D	0.00	26.08	0.0001	58.82	8.05	0
WETLAND 1	25Y3D	0.00	26.06	0.0001	2007.36	46.44	18435490
WETLAND 2	25Y3D	0.00	25.92	0.0000	312.10	314.72	2231175
WETLAND 3	25Y3D	0.00	25.92	0.0001	511.29	384.10	3653757
WETLAND 4	25Y3D	0.00	25.92	0.0001	219.90	170.67	1978862
WETLAND 5	25Y3D	0.00	25.92	0.0001	126.11	112.00	1249975
WETLAND 6	25Y3D	0.00	25.92	0.0001	37.89	37.96	373409
WETLAND 7	25Y3D	0.00	25.92	0.0001	817.46	813.69	3474406

APPENDIX E- EXISTING CONDITIONS LINK MAX

Link Min/Max Conditions [Icpr3]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
CH-DMY1-DMY2	100Y3D	8.00	-1.96	-0.45	0.45	0.37	0.41
CH-SW1-SW2	100Y3D	20.02	-0.21	-0.09	0.53	0.55	0.54
CH-SWN2-SWN3	100Y3D	23.16	-0.20	0.09	0.64	0.69	0.66
CH-SWN3-SWN4	100Y3D	28.52	-0.19	0.19	0.85	1.09	0.97
CH-SWN4-TC OUTFALL	100Y3D	42.54	-0.20	-6.88	1.64	1.71	1.68
CS1-DRD-N3	100Y3D	7.47	-0.10	0.01	0.00	0.00	0.00
CS1-DRD-N4	100Y3D	13.07	-0.17	0.01	0.00	0.00	0.00
CS1-DRD-TC COM	100Y3D	6.79	-0.09	0.01	0.00	0.00	0.00
CS1-DRD-TC OUTFALL	100Y3D	3.26	-0.04	0.00	0.00	0.00	0.00
CS1-DS1-DRD	100Y3D	9.89	-0.13	0.01	0.00	0.00	0.00
CS2-DRD-TC COM	100Y3D	6.79	-0.09	0.01	0.00	0.00	0.00
CS2-DRD-TC OUTFALL	100Y3D	5.05	-0.07	0.01	0.00	0.00	0.00
CS2-DS1-DRD	100Y3D	8.33	-0.11	0.01	0.00	0.00	0.00
CS3-DRD-TC COM	100Y3D	4.48	-0.06	0.00	0.00	0.00	0.00
CS3-DRD-TC OUTFALL	100Y3D	9.89	-0.13	0.01	0.00	0.00	0.00
DS-DMY2-EBTW - Pipe	100Y3D	8.02	-1.85	-0.12	0.00	0.00	0.00
DS-DMY2-EBTW - Weir: 1	100Y3D	8.09	-1.90	-0.25	0.11	0.11	0.11
DS-WETLAND 1-SWALE N2 - Pipe	100Y3D	4.88	0.00	-0.04	0.00	0.00	0.00
DS-WETLAND 1-SWALE N2 - Weir: 1	100Y3D	4.88	0.00	-0.07	0.00	0.00	0.00
DS-WETLAND 1-SWALE N3 - Pipe	100Y3D	2.77	0.00	-0.02	0.00	0.00	0.00
DS-WETLAND 1-SWALE N3 - Weir: 1	100Y3D	2.77	0.00	-0.03	0.00	0.00	0.00
DS-WETLAND 1-SWALE N4 - Pipe	100Y3D	4.06	0.00	0.07	0.00	0.00	0.00
DS-WETLAND 1-SWALE N4	100Y3D	4.06	0.00	0.12	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
- Weir: 1							
DS-WETLAND 1-TC COMMERCIAL - Pipe	100Y3D	4.81	-2.73	-0.03	0.00	0.00	0.00
DS-WETLAND 1-TC COMMERCIAL - Weir: 1	100Y3D	4.82	-2.73	-0.05	0.00	0.00	0.00
DS1-WETLAND 1- TIMBER CREEK OUTFALL - Pipe	100Y3D	4.59	0.00	-0.05	0.00	0.00	0.00
DS1-WETLAND 1- TIMBER CREEK OUTFALL - Weir: 1	100Y3D	4.59	0.00	-0.07	0.00	0.00	0.00
DS1-WETLAND 1-AIRPORT BASIN 11 - Pipe	100Y3D	10.71	0.00	0.04	0.00	0.00	0.00
DS1-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	100Y3D	10.71	0.00	0.05	0.09	0.09	0.09
DS2-WETLAND 1-AIRPORT BASIN 11 - Pipe	100Y3D	11.31	0.00	0.04	0.00	0.00	0.00
DS2-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	100Y3D	11.31	0.00	0.05	0.10	0.10	0.10
DS2-WETLAND 1-TIMBER CREEK OUTFALL - Pipe	100Y3D	4.77	-2.62	-0.03	0.00	0.00	0.00
DS2-WETLAND 1-TIMBER CREEK OUTFALL - Weir: 1	100Y3D	4.78	-2.62	-0.04	0.00	0.00	0.00
DS3-WETLAND 1-AIRPORT	100Y3D	11.43	0.00	0.04	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
BASIN 11 - Pipe							
DS3-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	100Y3D	11.43	0.00	0.05	0.10	0.10	0.10
DS4-WETLAND 1-AIRPORT BASIN 11 - Pipe	100Y3D	11.51	0.00	0.04	0.00	0.00	0.00
DS4-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	100Y3D	11.51	0.00	0.05	0.10	0.10	0.10
OW-DANIELS SOUTH-ESTERO BAY	100Y3D	1017.67	-264.18	0.67	1.47	1.47	1.47
OW-DS EAST-WETLAND 6	100Y3D	44.54	-8.70	0.54	0.12	0.12	0.12
OW-DS EAST-WETLAND 7	100Y3D	768.62	-168.56	0.63	1.21	1.21	1.21
OW-DS NORTH-WETLAND 2	100Y3D	367.67	-39.03	0.14	2.26	2.26	2.26
OW-DS WEST-WETLAND 4	100Y3D	125.46	-16.14	0.72	0.27	0.27	0.27
OW-DS WEST-WETLAND 5	100Y3D	110.21	-37.52	1.82	0.14	0.14	0.14
OW-WETLAND 2-DS EAST	100Y3D	64.63	-34.66	0.04	1.32	1.32	1.32
OW-WETLAND 2-WETLAND 3	100Y3D	353.80	-30.08	0.91	0.83	0.83	0.83
OW-WETLAND 3-DS EAST	100Y3D	355.22	-67.06	0.34	1.28	1.28	1.28
OW-WETLAND 3-DS WEST	100Y3D	53.46	-2.79	-0.11	0.99	0.99	0.99
OW-WETLAND 3-WETLAND 4	100Y3D	94.57	-2.64	0.19	0.84	0.84	0.84
OW-WETLAN	100Y3D	219.90	-29.39	-0.18	0.77	0.77	0.77

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
D 4-DS EAST							
OW-WETLAND 4-WETLAND 5	100Y3D	17.05	-9.44	0.09	0.25	0.25	0.25
OW-WETLAND 5-WETLAND 7	100Y3D	145.83	-50.98	0.08	1.58	1.58	1.58
OW-WETLAND 6-WETLAND 7	100Y3D	49.21	-8.79	0.02	1.11	1.11	1.11
P-DS WEST-DUMMY 1	100Y3D	7.98	-1.74	-0.04	2.54	2.54	2.54
P-EB OUTFALL DMY-EB TW	100Y3D	42.87	-3.73	-6.66	1.69	1.69	1.69
P1-W7-EB DMY	100Y3D	13.20	-0.95	1.48	2.11	2.58	2.34
P2-W7-EB DMY	100Y3D	11.03	-0.92	1.32	2.10	2.60	2.34
P3-W7-EB DMY	100Y3D	4.44	-0.26	-0.45	2.51	2.51	2.51
P4-W7-EB DMY	100Y3D	8.21	-0.48	-0.83	2.61	2.61	2.61
P5-W7-EB DMY	100Y3D	8.21	-0.48	-0.83	2.61	2.61	2.61
CH-DMY1-DMY2	10Y1D	5.73	0.00	5.30	0.33	0.27	0.30
CH-SW1-SW2	10Y1D	13.85	-0.86	0.02	0.47	0.49	0.48
CH-SWN2-SWN3	10Y1D	17.75	-0.13	0.02	0.62	0.69	0.66
CH-SWN3-SWN4	10Y1D	20.80	-0.10	0.04	0.81	1.16	0.98
CH-SWN4-TC OUTFALL	10Y1D	25.49	-0.11	0.25	1.42	1.49	1.45
CS1-DRD-N3	10Y1D	0.08	0.00	0.00	0.00	0.00	0.00
CS1-DRD-N4	10Y1D	0.14	0.00	0.00	0.00	0.00	0.00
CS1-DRD-TC COM	10Y1D	0.07	0.00	0.00	0.00	0.00	0.00
CS1-DRD-TC OUTFALL	10Y1D	0.03	0.00	0.00	0.00	0.00	0.00
CS1-DS1-DRD	10Y1D	0.10	0.00	0.00	0.00	0.00	0.00
CS2-DRD-TC COM	10Y1D	0.07	0.00	0.00	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
CS2-DRD-TC OUTFALL	10Y1D	0.05	0.00	0.00	0.00	0.00	0.00
CS2-DS1-DRD	10Y1D	0.09	0.00	0.00	0.00	0.00	0.00
CS3-DRD-TC COM	10Y1D	0.05	0.00	0.00	0.00	0.00	0.00
CS3-DRD-TC OUTFALL	10Y1D	0.10	0.00	0.00	0.00	0.00	0.00
DS-DMY2-EB TW - Pipe	10Y1D	5.09	0.00	-1.24	0.00	0.00	0.00
DS-DMY2-EB TW - Weir: 1	10Y1D	5.45	0.00	-1.35	0.00	0.00	0.00
DS-WETLAND 1-SWALE N2 - Pipe	10Y1D	6.58	0.00	0.01	0.00	0.00	0.00
DS-WETLAND 1-SWALE N2 - Weir: 1	10Y1D	6.59	0.00	0.02	0.01	0.01	0.01
DS-WETLAND 1-SWALE N3 - Pipe	10Y1D	3.50	0.00	0.01	0.00	0.00	0.00
DS-WETLAND 1-SWALE N3 - Weir: 1	10Y1D	3.50	0.00	0.02	0.00	0.00	0.00
DS-WETLAND 1-SWALE N4 - Pipe	10Y1D	4.62	0.00	0.07	0.00	0.00	0.00
DS-WETLAND 1-SWALE N4 - Weir: 1	10Y1D	4.63	0.00	0.12	0.01	0.01	0.01
DS-WETLAND 1-TC COMMERCIAL - Pipe	10Y1D	6.68	0.00	0.01	0.00	0.00	0.00
DS-WETLAND 1-TC COMMERCIAL - Weir: 1	10Y1D	6.68	0.00	0.02	0.01	0.01	0.01
DS1-WETLAND 1- TIMBER CREEK OUTFALL - Pipe	10Y1D	4.65	0.00	0.08	0.00	0.00	0.00
DS1-WETLAND 1- TIMBER CREEK OUTFALL - Weir: 1	10Y1D	4.65	0.00	0.11	0.01	0.01	0.01

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
DS1-WETLAND 1-AIRPORT BASIN 11 - Pipe	10Y1D	12.24	0.00	0.11	0.00	0.00	0.00
DS1-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	10Y1D	12.24	0.00	0.14	0.20	0.20	0.20
DS2-WETLAND 1-AIRPORT BASIN 11 - Pipe	10Y1D	12.73	0.00	0.11	0.00	0.00	0.00
DS2-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	10Y1D	12.73	0.00	0.14	0.21	0.21	0.21
DS2-WETLAND 1-TIMBER CREEK OUTFALL - Pipe	10Y1D	6.21	0.00	0.01	0.00	0.00	0.00
DS2-WETLAND 1-TIMBER CREEK OUTFALL - Weir: 1	10Y1D	6.21	0.00	0.02	0.01	0.01	0.01
DS3-WETLAND 1-AIRPORT BASIN 11 - Pipe	10Y1D	12.83	0.00	0.11	0.00	0.00	0.00
DS3-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	10Y1D	12.83	0.00	0.14	0.21	0.21	0.21
DS4-WETLAND 1-AIRPORT BASIN 11 - Pipe	10Y1D	12.89	0.00	0.11	0.00	0.00	0.00
DS4-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	10Y1D	12.90	0.00	0.14	0.21	0.21	0.21
OW-DANIELS SOUTH-ESTERO BAY	10Y1D	551.99	0.00	0.94	1.29	1.29	1.29
OW-DS EAST-WETLA	10Y1D	101.92	0.00	-0.67	0.37	0.37	0.37

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
ND 6							
OW-DS EAST-WETLAND 7	10Y1D	467.40	0.00	-1.52	1.08	1.08	1.08
OW-DS NORTH-WETLAND 2	10Y1D	229.26	-1.50	0.27	1.90	1.90	1.90
OW-DS WEST-WETLAND 4	10Y1D	94.58	0.00	-1.54	0.27	0.27	0.27
OW-DS WEST-WETLAND 5	10Y1D	87.26	0.00	-2.14	0.14	0.14	0.14
OW-WETLAND 2-DS EAST	10Y1D	23.33	0.00	0.02	0.83	0.83	0.83
OW-WETLAND 2-WETLAND 3	10Y1D	222.06	0.00	0.93	0.53	0.53	0.53
OW-WETLAND 3-DS EAST	10Y1D	270.55	0.00	-0.69	1.18	1.18	1.18
OW-WETLAND 3-DS WEST	10Y1D	29.29	0.00	-0.09	0.94	0.94	0.94
OW-WETLAND 3-WETLAND 4	10Y1D	104.57	0.00	-0.48	1.03	1.03	1.03
OW-WETLAND 4-DS EAST	10Y1D	223.53	-12.42	-0.53	1.16	1.16	1.16
OW-WETLAND 4-WETLAND 5	10Y1D	19.03	-28.55	0.33	-0.36	-0.36	-0.36
OW-WETLAND 5-WETLAND 7	10Y1D	77.14	0.00	0.07	1.36	1.36	1.36
OW-WETLAND 6-WETLAND 7	10Y1D	64.96	0.00	-0.27	2.14	2.14	2.14
P-DS WEST-DUMMY 1	10Y1D	4.97	0.00	-0.23	1.58	1.58	1.58
P-EB OUTFALL DMY-EB TW	10Y1D	61.86	-4.63	-6.58	2.45	2.46	2.45

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
P1-W7-EB DMY	10Y1D	17.37	-0.92	0.91	2.83	3.97	3.40
P2-W7-EB DMY	10Y1D	11.68	-0.43	0.53	2.39	3.99	3.18
P3-W7-EB DMY	10Y1D	6.93	-0.39	0.44	3.92	3.92	3.92
P4-W7-EB DMY	10Y1D	12.82	-0.72	0.80	4.08	4.08	4.08
P5-W7-EB DMY	10Y1D	12.82	-0.72	0.80	4.08	4.08	4.08
CH-DMY1-DMY2	25Y3D	6.66	-1.88	0.02	0.38	0.31	0.34
CH-SW1-SW2	25Y3D	15.99	-5.32	0.03	0.46	0.48	0.47
CH-SWN2-SWN3	25Y3D	18.35	-5.45	0.03	0.55	0.58	0.57
CH-SWN3-SWN4	25Y3D	23.50	-6.00	0.02	0.75	0.91	0.83
CH-SWN4-TC OUTFALL	25Y3D	37.50	-7.05	0.15	1.46	1.51	1.49
CS1-DRD-N3	25Y3D	7.47	-0.10	0.01	0.00	0.00	0.00
CS1-DRD-N4	25Y3D	13.07	-0.17	0.01	0.00	0.00	0.00
CS1-DRD-TC COM	25Y3D	6.80	-0.09	0.01	0.00	0.00	0.00
CS1-DRD-TC OUTFALL	25Y3D	3.26	-0.04	0.00	0.00	0.00	0.00
CS1-DS1-DRD	25Y3D	9.89	-0.13	0.01	0.00	0.00	0.00
CS2-DRD-TC COM	25Y3D	6.80	-0.09	0.01	0.00	0.00	0.00
CS2-DRD-TC OUTFALL	25Y3D	5.05	-0.07	0.00	0.00	0.00	0.00
CS2-DS1-DRD	25Y3D	8.33	-0.11	0.01	0.00	0.00	0.00
CS3-DRD-TC COM	25Y3D	4.48	-0.06	0.00	0.00	0.00	0.00
CS3-DRD-TC OUTFALL	25Y3D	9.89	-0.13	0.01	0.00	0.00	0.00
DS-DMY2-EB TW - Pipe	25Y3D	6.66	-1.92	0.02	0.00	0.00	0.00
DS-DMY2-EB TW - Weir: 1	25Y3D	6.66	-1.92	0.02	0.07	0.07	0.07
DS-WETLAND 1-SWALE N2 - Pipe	25Y3D	3.90	-0.93	-0.01	0.00	0.00	0.00
DS-WETLAND 1-SWALE N2 - Weir: 1	25Y3D	3.90	-0.93	0.02	0.00	0.00	0.00
DS-WETLAND 1-SWALE N3	25Y3D	2.93	-0.57	0.01	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
- Pipe							
DS-WETLAND 1-SWALE N3 - Weir: 1	25Y3D	2.93	-0.57	0.01	0.00	0.00	0.00
DS-WETLAND 1-SWALE N4 - Pipe	25Y3D	3.48	-0.71	0.01	0.00	0.00	0.00
DS-WETLAND 1-SWALE N4 - Weir: 1	25Y3D	3.48	-0.71	0.02	0.00	0.00	0.00
DS-WETLAND 1-TC COMMERCIAL - Pipe	25Y3D	3.76	-2.69	0.01	0.00	0.00	0.00
DS-WETLAND 1-TC COMMERCIAL - Weir: 1	25Y3D	3.76	-2.69	0.01	0.00	0.00	0.00
DS1-WETLAND 1- TIMBER CREEK OUTFALL - Pipe	25Y3D	3.95	-0.83	0.01	0.00	0.00	0.00
DS1-WETLAND 1- TIMBER CREEK OUTFALL - Weir: 1	25Y3D	3.95	-0.83	0.02	0.00	0.00	0.00
DS1-WETLAND 1-AIRPORT BASIN 11 - Pipe	25Y3D	8.70	-0.09	0.01	0.00	0.00	0.00
DS1-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	25Y3D	8.70	-0.09	0.02	0.07	0.07	0.07
DS2-WETLAND 1-AIRPORT BASIN 11 - Pipe	25Y3D	9.18	-0.09	0.01	0.00	0.00	0.00
DS2-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	25Y3D	9.18	-0.09	0.03	0.07	0.07	0.07
DS2-WETLAND 1-TIMBER CREEK	25Y3D	3.74	-2.58	-0.01	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
OUTFALL - Pipe							
DS2-WETLAND 1-TIMBER CREEK OUTFALL - Weir: 1	25Y3D	3.74	-2.58	0.01	0.00	0.00	0.00
DS3-WETLAND 1-AIRPORT BASIN 11 - Pipe	25Y3D	9.28	-0.09	0.01	0.00	0.00	0.00
DS3-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	25Y3D	9.28	-0.10	0.03	0.07	0.07	0.07
DS4-WETLAND 1-AIRPORT BASIN 11 - Pipe	25Y3D	9.35	-0.10	0.01	0.00	0.00	0.00
DS4-WETLAND 1-AIRPORT BASIN 11 - Weir: 1	25Y3D	9.35	-0.10	0.03	0.07	0.07	0.07
OW-DANIELS SOUTH-ESTERO BAY	25Y3D	777.86	-285.81	0.37	1.38	1.38	1.38
OW-DS EAST-WETLAND 6	25Y3D	34.43	-5.17	-0.63	0.11	0.11	0.11
OW-DS EAST-WETLAND 7	25Y3D	595.43	-183.79	-0.73	1.01	1.01	1.01
OW-DS NORTH-WETLAND 2	25Y3D	292.27	-46.03	-0.16	2.11	2.11	2.11
OW-DS WEST-WETLAND 4	25Y3D	94.12	-12.72	0.65	0.22	0.22	0.22
OW-DS WEST-WETLAND 5	25Y3D	82.16	-40.57	1.65	0.11	0.11	0.11
OW-WETLAND 2-DS EAST	25Y3D	40.67	-36.87	-0.07	1.19	1.19	1.19
OW-WETLAND 2-WETLAND 3	25Y3D	274.50	-35.36	0.87	0.64	0.64	0.64

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
OW-WETLAND 3-DS EAST	25Y3D	277.77	-72.27	0.34	1.19	1.19	1.19
OW-WETLAND 3-DS WEST	25Y3D	32.47	-0.62	-0.07	0.90	0.90	0.90
OW-WETLAND 3-WETLAND 4	25Y3D	92.23	-4.03	0.19	0.92	0.92	0.92
OW-WETLAND 4-DS EAST	25Y3D	170.67	-32.01	0.21	0.66	0.66	0.66
OW-WETLAND 4-WETLAND 5	25Y3D	16.74	-5.48	0.09	0.25	0.25	0.25
OW-WETLAND 5-WETLAND 7	25Y3D	108.71	-54.73	0.05	1.42	1.42	1.42
OW-WETLAND 6-WETLAND 7	25Y3D	37.96	-9.67	0.02	1.00	1.00	1.00
P-DS WEST-DUMMY 1	25Y3D	6.66	-1.85	0.01	2.12	2.12	2.12
P-EB OUTFALL DMY-EB TW	25Y3D	38.00	-0.80	-1.64	1.50	1.50	1.50
P1-W7-EB DMY	25Y3D	11.76	-0.24	-0.30	1.90	2.06	1.98
P2-W7-EB DMY	25Y3D	9.77	-0.24	-0.22	1.93	2.12	2.02
P3-W7-EB DMY	25Y3D	3.50	-0.08	-0.11	1.98	1.98	1.98
P4-W7-EB DMY	25Y3D	6.48	-0.14	-0.20	2.06	2.06	2.06
P5-W7-EB DMY	25Y3D	6.48	-0.14	-0.20	2.06	2.06	2.06

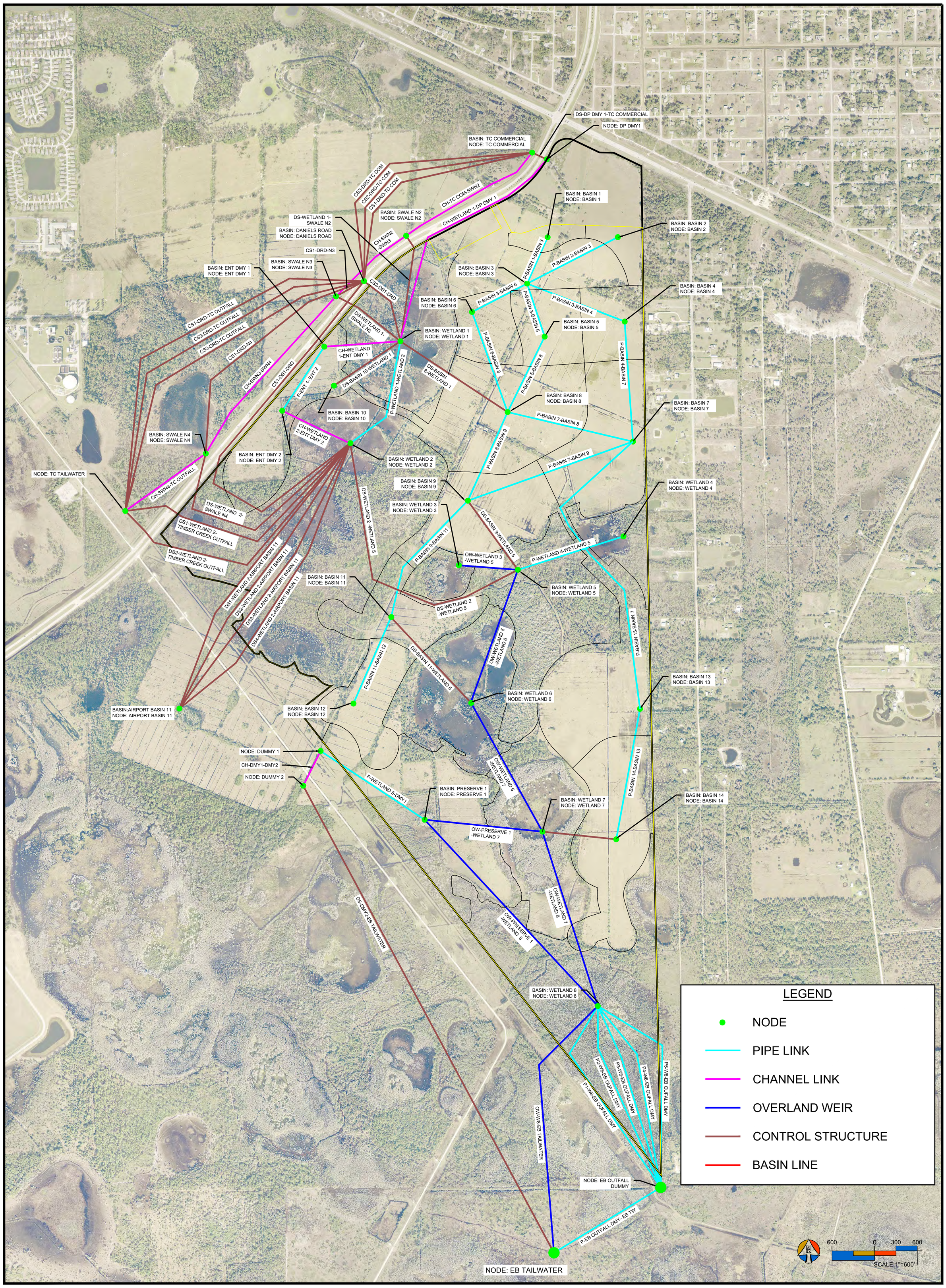
APPENDIX F-EXISTING CONDITIONS MANUAL BASIN MAX

Manual Basin Runoff Summary [Icpr3]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
AirportBasin11	100Y3D	660.55	60.3333	13.90	13.35	213.6318	95.5	0.00	0.00
DS EAST	100Y3D	253.89	62.7333	13.90	11.89	170.6600	84.1	0.00	0.00
DS NORTH	100Y3D	499.07	61.4500	13.90	11.99	225.9300	84.9	0.00	0.00
DS WEST	100Y3D	306.12	61.1167	13.90	12.83	115.8700	91.2	0.00	0.00
SWALE N2	100Y3D	5.65	60.0167	13.90	13.64	0.9200	98.0	0.00	0.00
SWALE N3	100Y3D	7.50	60.0167	13.90	13.64	1.2200	98.0	0.00	0.00
SWALE N4	100Y3D	0.31	60.0167	13.90	13.64	0.0500	98.0	0.00	0.00
TC COMMERCIAL	100Y3D	247.77	60.0833	13.90	13.43	39.7700	95.9	0.00	0.00
WETLAND 1	100Y3D	2631.86	60.0667	13.90	12.54	420.0100	88.9	0.00	0.00
WETLAND 2	100Y3D	286.33	60.2000	13.90	13.71	52.9900	98.2	0.00	0.00
WETLAND 3	100Y3D	334.13	60.5000	13.90	13.85	84.4200	99.4	0.00	0.00
WETLAND 4	100Y3D	169.26	60.5833	13.90	13.87	45.4900	99.6	0.00	0.00
WETLAND 5	100Y3D	96.69	60.7167	13.90	13.75	28.8800	98.5	0.00	0.00
WETLAND 6	100Y3D	49.16	60.1500	13.90	13.76	8.6400	98.6	0.00	0.00
WETLAND 7	100Y3D	250.65	60.8333	13.90	13.84	80.1900	99.3	0.00	0.00
AirportBasin11	10Y1D	406.60	12.4333	6.50	5.88	213.6318	95.5	0.00	0.00
DS EAST	10Y1D	133.87	14.9000	6.50	4.38	170.6600	84.1	0.00	0.00
DS NORTH	10Y1D	272.01	13.5833	6.50	4.61	225.9300	84.9	0.00	0.00
DS WEST	10Y1D	183.73	13.2167	6.50	5.35	115.8700	91.2	0.00	0.00
SWALE N2	10Y1D	3.57	12.0500	6.50	6.24	0.9200	98.0	0.00	0.00
SWALE N3	10Y1D	4.73	12.0500	6.50	6.24	1.2200	98.0	0.00	0.00
SWALE N4	10Y1D	0.19	12.0500	6.50	6.24	0.0500	98.0	0.00	0.00
TC COMMERCIAL	10Y1D	151.88	12.1500	6.50	6.01	39.7700	95.9	0.00	0.00
WETLAND 1	10Y1D	1517.84	12.1333	6.50	5.20	420.0100	88.9	0.00	0.00
WETLAND 2	10Y1D	175.15	12.2833	6.50	6.26	52.9900	98.2	0.00	0.00
WETLAND 3	10Y1D	211.21	12.6000	6.50	6.37	84.4200	99.4	0.00	0.00
WETLAND 4	10Y1D	107.51	12.6667	6.50	6.39	45.4900	99.6	0.00	0.00

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
WETLAND 5	10Y1D	61.58	12.8167	6.50	6.25	28.8800	98.5	0.00	0.00
WETLAND 6	10Y1D	30.12	12.2333	6.50	6.32	8.6400	98.6	0.00	0.00
WETLAND 7	10Y1D	160.23	12.9167	6.50	6.33	80.1900	99.3	0.00	0.00
AirportBasin11	25Y3D	502.72	60.3333	10.60	10.05	213.6318	95.5	0.00	0.00
DS EAST	25Y3D	189.37	62.7333	10.60	8.65	170.6600	84.1	0.00	0.00
DS NORTH	25Y3D	373.10	61.4500	10.60	8.74	225.9300	84.9	0.00	0.00
DS WEST	25Y3D	231.78	61.1167	10.60	9.54	115.8700	91.2	0.00	0.00
SWALE N2	25Y3D	4.31	60.0167	10.60	10.35	0.9200	98.0	0.00	0.00
SWALE N3	25Y3D	5.71	60.0167	10.60	10.35	1.2200	98.0	0.00	0.00
SWALE N4	25Y3D	0.23	60.0167	10.60	10.35	0.0500	98.0	0.00	0.00
TC COMMERCIAL	25Y3D	188.66	60.0833	10.60	10.13	39.7700	95.9	0.00	0.00
WETLAND 1	25Y3D	1986.41	60.0667	10.60	9.26	420.0100	88.9	0.00	0.00
WETLAND 2	25Y3D	218.29	60.2000	10.60	10.40	52.9900	98.2	0.00	0.00
WETLAND 3	25Y3D	254.79	60.5000	10.60	10.55	84.4200	99.4	0.00	0.00
WETLAND 4	25Y3D	129.07	60.5833	10.60	10.57	45.4900	99.6	0.00	0.00
WETLAND 5	25Y3D	73.72	60.7167	10.60	10.44	28.8800	98.5	0.00	0.00
WETLAND 6	25Y3D	37.48	60.1500	10.60	10.46	8.6400	98.6	0.00	0.00
WETLAND 7	25Y3D	191.13	60.8333	10.60	10.53	80.1900	99.3	0.00	0.00

APPENDIX G- PROPOSED CONDITIONS NODE MAP



6/3/2022 G:\21008 - Daniels Parkway South\Plans\21008-02 Conceptual Drainage Plans\Current Plans\21008-02 Proposed Conditions Node Map.dwg

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PROJECT:

DANIELS SOUTH

ADDRESS:

DANIELS PARKWAY, LEE COUNTY

CONSULTANT:

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CLIENT:

LENNAR

SHEET TITLE:

PROPOSED CONDITIONS BASIN MAP

REVISIONS	DATE
JOB/FILE NUMBER:	14012-12
PROJECT MANAGER:	RMS
DRAWING BY:	ESS
JURISDICTION:	LEE COUNTY
DATE:	6/3/2022
SHEET NUMBER:	----

APPENDIX H-PROPOSED CONDITIONS INPUT REPORT

Simulation: 100Y3D

Scenario: Icpr3
Run Date/Time: 5/20/2022 11:26:16 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:

Unit Hydrograph Folder:	ICPR3	Curve Number Set:	ICPR3
		Green-Ampt Set:	ICPR3
		Vertical Layers Set:	
		Impervious Set:	ICPR3
		Roughness Set:	
		Crop Coef Set:	
		Fillable Porosity Set:	
		Conductivity Set:	
		Leakage Set:	

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Region Specification
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	Sfwmd72
		Rainfall Amount:	13.90 in
Edge Length Option:	Automatic	Storm Duration:	72.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	1 ft2	Min Node Srf Area (1D):	113 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: 10Y1D

Scenario:	Icpr3
Run Date/Time:	5/20/2022 10:07:11 AM
Program Version:	ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	312.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000

Max Calculation Time: 60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:
Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 10yr
Extern Hydrograph Set:
Curve Number Set: ICPR3
Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
IA Recovery Time: 24.0000 hr
ET for Manual Basins: False

dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Region Specification
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	Flmod
		Rainfall Amount:	6.50 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	1 ft2	Min Node Srf Area (1D):	113 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: 2.33Y1D

Scenario: Icpr3
Run Date/Time: 3/28/2022 9:25:45 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	312.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:
Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 2.33yr
Extern Hydrograph Set:
Curve Number Set: ICPR3
Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft
Edge Length Option: Automatic
Dflt Damping (2D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2
Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
ET for Manual Basins: False
Smp/Man Basin Rain Opt: Global
OF Region Rain Opt: Region Specification
Rainfall Name: Flmod
Rainfall Amount: 4.50 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 113 ft2
Energy Switch (1D): Energy

Comment:

Simulation: 25Y3D

Scenario: Icpr3
Run Date/Time: 5/20/2022 10:44:05 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.0001	900.0000
Max Calculation Time:		20.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000
0	0	0	360.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	360.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Lookup Tables

Rainfall Folder:	ICPR3	Boundary Stage Set:	25yr
Reference ET Folder:		Extern Hydrograph Set:	
Unit Hydrograph Folder:	ICPR3	Curve Number Set:	ICPR3
		Green-Ampt Set:	ICPR3
		Vertical Layers Set:	
		Impervious Set:	ICPR3
		Roughness Set:	
		Crop Coef Set:	
		Fillable Porosity Set:	
		Conductivity Set:	
		Leakage Set:	

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0001 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	0.0100 ft	OF Region Rain Opt:	Region Specification
Link Optimizer Tol:	0.0000 ft	Rainfall Name:	Sfwmd72
		Rainfall Amount:	10.60 in
Edge Length Option:	Automatic	Storm Duration:	72.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	1 ft2	Min Node Srf Area (1D):	113 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: 5Y1D

Scenario:	Icpr3
Run Date/Time:	4/20/2022 9:43:06 AM
Program Version:	ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	312.0000

Hydrology [sec]	Surface Hydraulics	Groundwater [sec]

		[sec]	
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	10.0000	10.0000
0	0	0	15.0000	30.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:
Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 5yr
Extern Hydrograph Set:
Curve Number Set: ICPR3
Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
IA Recovery Time: 24.0000 hr
ET for Manual Basins: False

Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Region Specification
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	Flmod
		Rainfall Amount:	5.50 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	1 ft2	Min Node Srf Area (1D):	113 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Manual Basin: AirportBasin11

Scenario:	Icpr3
Node:	AirportBasin11
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	43.1000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	Uh256
Peaking Factor:	256.0
Area:	213.6318 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
213.6318	AirportBasin11	AirportBasin11			

Comment: OUTFALL TO AIRPORT

Manual Basin: BASIN 1

Scenario:	Icpr3
Node:	BASIN 1
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	6.6300 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
6.6300	BASIN 1	BASIN 1			

Comment:

Manual Basin: BASIN 10

Scenario: Icpr3
Node: BASIN 10
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 39.8600 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
39.8600	BASIN 10	BASIN 10			

Comment:

Manual Basin: BASIN 11

Scenario: Icpr3
Node: BASIN 11
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 31.7600 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
31.7600	BASIN 11	BASIN 11			

Comment:

Manual Basin: BASIN 12

Scenario: Icpr3

Node: BASIN 12
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 28.5400 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
28.5400	BASIN 12	BASIN 12			

Comment:

Manual Basin: BASIN 13

Scenario: Icpr3
Node: BASIN 13
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 61.4200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
61.4200	BASIN 13	BASIN 13			

Comment:

Manual Basin: BASIN 14

Scenario: Icpr3
Node: BASIN 14
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 58.1100 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
58.1100	BASIN 14	BASIN 14			

Comment:

Manual Basin: BASIN 2

Scenario: Icpr3
Node: BASIN 2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 8.5300 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
8.5300	BASIN 2	BASIN 2			

Comment:

Manual Basin: BASIN 3

Scenario: Icpr3
Node: BASIN 3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 37.3900 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
37.3900	BASIN 3	BASIN 3			

Comment:

Manual Basin: BASIN 4

Scenario: Icpr3

Node: BASIN 4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 20.8700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
20.8700	BASIN 4	BASIN 4			

Comment:

Manual Basin: BASIN 5

Scenario: Icpr3
Node: BASIN 5
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 22.4500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
22.4500	BASIN 5	BASIN 5			

Comment:

Manual Basin: BASIN 6

Scenario: Icpr3
Node: BASIN 6
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 18.9800 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
18.9800	BASIN 6	BASIN 6			

Comment:

Manual Basin: BASIN 7

Scenario: Icpr3
Node: BASIN 7
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 52.0600 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
52.0600	BASIN 7	BASIN 7			

Comment:

Manual Basin: BASIN 8

Scenario: Icpr3
Node: BASIN 8
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 68.6200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
68.6200	BASIN 8	BASIN 8			

Comment:

Manual Basin: BASIN 9

Scenario: Icpr3

Node: BASIN 9
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 45.2800 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
45.2800	BASIN 9	BASIN 9			

Comment:

Manual Basin: BASIN C1

Scenario: Icpr3
Node: BASIN C1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 48.9700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
48.9700	C1	C1			

Comment:

Manual Basin: PRESERVE 1

Scenario: Icpr3
Node: PRESERVE 1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 158.8900 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 74.8900 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
74.8900	PRESERVE 1	PRESERVE 1			

Comment:

Manual Basin: SWALE N2

Scenario: Icpr3
Node: Swale N2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh256
Peaking Factor: 256.0
Area: 0.9200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.9200	SWALE N2	SWALE N2			

Comment:

Manual Basin: SWALE N3

Scenario: Icpr3
Node: Swale N3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh256
Peaking Factor: 256.0
Area: 1.2200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
1.2200	SWALE N3	SWALE N3			

Comment:

Manual Basin: SWALE N4

Scenario: Icpr3

Node: Swale N4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh256
Peaking Factor: 256.0
Area: 0.0500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.0500	SWALE N4	SWALE N4			

Comment:

Manual Basin: TC COMMERCIAL

Scenario: Icpr3
Node: TC COMMERCIAL
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 24.9800 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: Uh484
Peaking Factor: 484.0
Area: 39.7700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
39.7700	OFFSITE 1	OFFSITE 1			

Comment:

Manual Basin: WETLAND 1

Scenario: Icpr3
Node: WETLAND 1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 111.3700 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 64.7900 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
64.7900	WETLAND 1	WETLAND 1			

Comment:

Manual Basin: WETLAND 2

Scenario: Icpr3
Node: WETLAND 2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 165.8600 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 196.9700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
196.9700	WETLAND 2	WETLAND 2			

Comment:

Manual Basin: WETLAND 3

Scenario: Icpr3
Node: WETLAND 3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 38.8700 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 11.7300 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
11.7300	WETLAND 3	WETLAND 3			

Comment:

Manual Basin: WETLAND 4

Scenario: Icpr3

Node: WETLAND 4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 57.4400 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 18.3300 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
18.3300	WETLAND 4	WETLAND 4			

Comment:

Manual Basin: WETLAND 5

Scenario: Icpr3
Node: WETLAND 5
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 100.3800 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 72.7900 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
72.7900	WETLAND 5	WETLAND 5			

Comment:

Manual Basin: WETLAND 6

Scenario: Icpr3
Node: WETLAND 6
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 94.8700 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 62.4900 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
62.4900	WETLAND 6	WETLAND 6			

Comment:

Manual Basin: WETLAND 7

Scenario: Icpr3
Node: WETLAND 7
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 147.7000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 66.5500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
66.5500	WETLAND 7	WETLAND 7			

Comment:

Manual Basin: WETLAND 8

Scenario: Icpr3
Node: WETLAND 8
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 335.2000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 115.0600 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
115.0600	WETLAND 8	WETLAND 8			

Comment:

Node: AirportBasin11

Scenario: Icpr3

Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	30.0000	25.05
0	0	0	40.0000	25.18
0	0	0	60.0000	25.60
0	0	0	64.0000	26.00
0	0	0	80.0000	26.06
0	0	0	100.0000	26.00
0	0	0	240.0000	25.53
0	0	0	360.0000	25.33
0	0	0	999.0000	25.00

Comment:

Node: BASIN 1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	1.3600	59242
26.00	1.4326	62404
26.50	1.5065	65623
27.00	1.5817	68899
27.50	1.6582	72231
27.50	4.5204	196911
9999.00	4.5204	196911

Comment:

Node: BASIN 10

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	5.4245	236293
26.00	5.9055	257243
26.50	6.4020	278872
27.00	6.9141	301180
27.50	7.4418	324166
27.50	26.2224	1142249
9999.00	26.2224	1142249

Comment:

Node: BASIN 11

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	7.6454	333033
26.00	7.7273	336602
26.50	7.8094	340178
27.00	7.8917	343761
27.50	7.9740	347349
27.50	14.6377	637617
9999.00	14.6377	637617

Comment:

Node: BASIN 12

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	13.1613	573308
26.00	13.4700	586752
26.50	13.7809	600297
27.00	14.0942	613942
27.50	14.4097	627688
27.50	22.5873	983904
9999.00	22.5873	983904

Comment:

Node: BASIN 13

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	9.8445	428824
26.00	9.9420	433071
26.50	10.0396	437325
27.00	10.1374	441585
27.50	10.2353	445851
27.50	40.7864	1776655
9999.00	40.7864	1776655

Comment:

Node: BASIN 14

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	7.8440	341684
26.00	7.9299	345428
26.50	8.0160	349178
27.00	8.1023	352935
27.50	8.1886	356697
27.50	38.0232	1656290
9999.00	38.0232	1656290

Comment:

Node: BASIN 2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs

Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	2.4371	106158
26.00	2.5365	110491
26.50	2.6373	114880
27.00	2.7393	119326
27.50	2.8427	123828
27.50	6.0534	263687
9999.00	6.0534	263687

Comment:

Node: BASIN 3

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	10.6718	464863
26.00	10.9636	477574
26.50	11.2567	490342
27.00	11.5511	503166
27.50	11.8468	516047
27.50	26.1717	1140038
9999.00	26.1717	1140038

Comment:

Node: BASIN 4

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	4.1118	179109
26.00	4.2379	184602
26.50	4.3653	190152
27.00	4.4940	195758
27.50	4.6240	201421

Stage [ft]	Area [ac]	Area [ft2]
27.50	14.1605	616831
9999.00	14.1605	616831

Comment:

Node: BASIN 5

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	5.8529	254951
26.00	6.0697	264395
26.50	6.2878	273895
27.00	6.5071	283451
27.50	6.7278	293064
27.50	15.8086	688624
9999.00	15.8086	688624

Comment:

Node: BASIN 6

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	4.3195	188155
26.00	4.4459	193662
26.50	4.5736	199225
27.00	4.7026	204845
27.50	4.8329	210521
27.50	13.1192	571472
9999.00	13.1192	571472

Comment:

Node: BASIN 7

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	13.7828	600378
26.00	14.1755	617485
26.50	14.5708	634706
27.00	14.9688	652040
27.50	15.3693	669486
27.50	36.7530	1600959
9999.00	36.7530	1600959

Comment:

Node: BASIN 8

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	21.0577	917272
26.00	21.6134	941480
26.50	22.1704	965744
27.00	22.7288	990065
27.50	23.2884	1014443
27.50	49.5131	2156792
9999.00	49.5131	2156792

Comment:

Node: BASIN 9

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	9.5329	415255

Stage [ft]	Area [ac]	Area [ft2]
26.00	9.8570	429371
26.50	10.1837	443600
27.00	10.5129	457943
27.50	10.8448	472398
27.50	33.0077	1437816
9999.00	33.0077	1437816

Comment:

Node: BASIN C1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
25.50	6.3863	278189
26.00	6.5400	284883
26.50	6.6944	291606
27.00	6.8493	298357
27.50	7.0050	305137
27.50	29.9057	1302690
9999.00	29.9057	1302690

Comment:

Node: DP DMY 1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: DUMMY 1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.20 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: DUMMY 2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.20 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: Daniels Road

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 9999.00 ft
Warning Stage: 9999.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	9999.00
0	0	0	99999.0000	9999.00

Comment: This is a dummy node used to connect a time vs flow rate curve to nodes internal to the development represnting inflows from the equalizer pipes under daniels parkway.

Node: EB OUTFALL DUMMY

Scenario: Icpr3

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: EB TAILWATER

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 9999.00 ft
Boundary Stage: EB Outfall

Comment:

Node: PRESERVE 1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.08 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
22.82	0.0001	4
22.83	0.0030	129
23.08	0.0168	733
23.33	0.0519	2262
23.58	0.1570	6839
23.83	0.4203	18310
24.08	1.3486	58743
24.33	4.8102	209533
24.58	11.7512	511884
24.83	22.5525	982386
25.08	36.1871	1576309
25.33	53.5380	2332117
25.58	64.1392	2793904
25.83	67.1915	2926861

Stage [ft]	Area [ac]	Area [ft2]
26.08	68.8343	2998420
26.33	69.9481	3046941
26.58	70.5828	3074587
26.83	70.9472	3090461
27.08	71.1320	3098511
27.33	71.2431	3103348
27.58	71.3011	3105874
27.83	71.3442	3107752
28.08	71.3711	3108925
28.33	71.3796	3109293
28.58	71.3803	3109326
28.83	71.3804	3109331
29.08	71.3804	3109331

Comment:

Node: Swale N2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: Swale N3

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: Swale N4

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Comment:

Node: TC COMMERCIAL

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
20.30	0.00	0
20.40	0.00	2
20.50	0.00	31
20.60	0.00	115
20.70	0.01	269
20.80	0.01	499
20.90	0.02	835
21.00	0.03	1296
21.10	0.04	1880
21.20	0.06	2582
21.30	0.08	3412
21.40	0.10	4386
21.50	0.13	5535
21.60	0.16	6877
21.70	0.19	8411
21.80	0.23	10146
21.90	0.28	12120
22.00	0.33	14363
22.10	0.39	16888
22.20	0.45	19730
22.30	0.53	22951
22.40	0.61	26588
22.50	0.70	30663
22.60	0.81	35198
22.70	0.92	40276
22.80	1.06	46055
22.90	1.21	52655
23.00	1.38	60315
23.10	1.59	69163

Stage [ft]	Volume [ac-ft]	Volume [ft3]
23.20	1.82	79169
23.30	2.07	90340
23.40	2.36	102736
23.50	2.67	116313
23.60	3.01	131014
23.70	3.37	146832
23.80	3.76	163787
23.90	4.18	181930
24.00	4.62	201361
24.10	5.10	222199
24.20	5.61	244413
24.30	6.16	268309
24.40	6.76	294503
24.50	7.42	323168
24.60	8.15	355110
24.70	9.01	392328
24.80	9.99	435150
24.90	11.12	484221
25.00	12.40	540003
25.10	13.86	603646
25.20	15.53	676604
25.30	17.44	759877
25.40	19.62	854767
25.50	22.08	961713
25.60	24.78	1079351
25.70	27.67	1205304
25.80	30.73	1338568
25.90	33.97	1479666
26.00	37.38	1628324
26.10	40.91	1782246
26.20	44.52	1939479
26.30	48.19	2099086
26.40	51.89	2260352
26.50	55.62	2422768
26.60	59.37	2585987
26.70	63.13	2749787
26.80	66.90	2914054
26.90	70.68	3078743
27.00	74.47	3243829
27.10	78.27	3409272
27.20	82.07	3575064
27.30	85.89	3741195
27.40	89.71	3907670
27.50	93.54	4074517
27.60	97.38	4241752
27.70	101.22	4409338
27.80	105.08	4577233
27.90	108.94	4745416
28.00	112.81	4913885

Stage [ft]	Volume [ac-ft]	Volume [ft3]
28.10	116.68	5082642
28.20	120.56	5251676
28.30	124.45	5420962
28.40	128.34	5590479
28.50	132.24	5760208
28.60	136.14	5930141
28.70	140.04	6100272
28.80	143.95	6270598
28.90	147.87	6441113
29.00	151.79	6611802
29.10	155.71	6782658
29.20	159.63	6953673
29.30	163.56	7124843
29.40	167.50	7296159
29.50	171.43	7467613
29.60	175.37	7639201
29.70	179.31	7810922
29.80	183.26	7982777
29.90	187.21	8154764
30.00	191.16	8326886
30.10	195.11	8499149
30.20	199.07	8671561
30.30	203.03	8844136
30.40	207.00	9016885
30.50	210.97	9189813
30.60	214.94	9362913
30.70	218.92	9536169
30.80	222.90	9709563
30.90	226.88	9883076
31.00	230.87	10056695
31.10	234.86	10230411
31.20	238.85	10404208
31.30	242.84	10578077
31.40	246.83	10752008
31.50	250.83	10925992
31.60	254.82	11100024
31.70	258.82	11274091
31.80	262.81	11448183
31.90	266.81	11622294
32.00	270.81	11796415
32.10	274.81	11970541
32.20	278.80	12144669
32.30	282.80	12318798
32.40	286.80	12492926
32.50	290.80	12667055
32.60	294.79	12841184
32.70	298.79	13015312
32.80	302.79	13189441
32.90	306.79	13363569

Stage [ft]	Volume [ac-ft]	Volume [ft3]
33.00	310.78	13537698
33.10	314.78	13711827
33.20	318.78	13885955
33.30	322.78	14060084
33.40	326.77	14234212
33.50	330.77	14408341
33.60	334.77	14582470
33.70	338.76	14756598
33.80	342.76	14930727
33.90	346.76	15104855
34.00	350.76	15278984

Comment:

Node: TC TAILWATER

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft
Boundary Stage: TC Outfall

Comment:

Node: WETLAND 1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.48 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
22.62	0.0001	4
22.63	0.0502	2188
22.88	0.2268	9880
23.13	0.5291	23046
23.38	1.0497	45723
23.63	3.1160	135733
23.88	7.6839	334709
24.13	17.2688	752228
24.38	29.4796	1284130
24.63	40.9868	1785386

Stage [ft]	Area [ac]	Area [ft2]
24.88	51.6563	2250148
25.13	56.9630	2481310
25.38	60.2321	2623712
25.63	62.6618	2729546
25.88	63.5945	2770175
26.13	64.0319	2789228
26.38	64.3171	2801651
26.63	64.5023	2809719
26.88	64.6086	2814349
27.13	64.6543	2816339
27.38	64.6716	2817094
27.63	64.6787	2817404
27.88	64.6803	2817474
28.13	64.6805	2817481

Comment:

Node: WETLAND 2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.44 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
21.72	0.0001	4
21.73	0.0111	484
21.98	0.0446	1944
22.23	0.1629	7096
22.48	0.3139	13671
22.73	0.8109	35321
22.98	1.6878	73522
23.23	2.8556	124389
23.48	7.7605	338049
23.73	21.2003	923484
23.98	41.6355	1813640
24.23	58.2465	2537217
24.48	73.5994	3205991
24.73	90.7998	3955238
24.98	124.6139	5428180
25.23	158.2022	6891286
25.48	174.8214	7615222
25.73	185.4020	8076112
25.98	192.0094	8363929
26.23	195.0936	8498275

Stage [ft]	Area [ac]	Area [ft2]
26.48	196.2278	8547683
26.73	196.4727	8558351
26.98	196.5424	8561388
27.23	196.5643	8562342
27.48	196.5698	8562583
27.73	196.5724	8562695
27.98	196.5731	8562726

Comment:

Node: WETLAND 3

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.63 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
23.62	0.0001	4
23.63	0.0284	1237
23.88	0.4169	18162
24.13	1.2809	55795
24.38	2.5895	112799
24.63	4.3951	191450
24.88	7.0752	308198
25.13	8.6515	376860
25.38	9.7255	423645
25.63	11.0292	480431
25.88	11.4408	498360
26.13	11.5928	504981
26.38	11.6690	508302
26.63	11.7000	509651
26.88	11.7167	510381
27.13	11.7251	510747
27.38	11.7310	511002
27.63	11.7346	511159
27.88	11.7350	511176

Comment:

Node: WETLAND 4

Scenario: Icpr3
Type: Stage/Area

Base Flow: 0.00 cfs
Initial Stage: 25.61 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
23.22	0.0001	4
23.23	0.0145	630
23.48	0.1888	8222
23.73	0.4170	18162
23.98	0.6612	28802
24.23	1.0275	44760
24.48	3.1281	136260
24.73	5.9872	260801
24.98	7.2182	314423
25.23	8.0088	348863
25.48	10.6602	464359
25.73	14.8228	645682
25.98	16.7964	731650
26.23	17.3976	757841
26.48	17.5847	765990
26.73	17.6926	770689
26.98	17.7651	773846
27.23	17.8138	775967
27.48	17.8435	777264
27.73	17.8586	777920
27.98	17.8626	778094
28.23	17.8627	778100

Comment:

Node: WETLAND 5

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.32 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
22.92	0.0001	4
22.93	0.0040	174
23.18	0.0210	913
23.43	0.0501	2184
23.68	0.1179	5136
23.93	0.3135	13654
24.18	0.8193	35691

Stage [ft]	Area [ac]	Area [ft2]
24.43	2.0198	87983
24.68	5.3608	233515
24.93	15.8533	690569
25.18	34.9585	1522793
25.43	48.9483	2132187
25.68	59.3169	2583845
25.93	65.6245	2858604
26.18	69.0900	3009560
26.43	70.9959	3092580
26.68	72.1050	3140896
26.93	72.6657	3165317
27.18	72.8544	3173538
27.43	72.9085	3175895
27.68	72.9237	3176558
27.93	72.9256	3176637

Comment:

Node: WETLAND 6

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.16 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
20.32	0.0001	4
20.33	0.0005	24
20.58	0.0030	132
20.83	0.0105	457
21.08	0.0183	797
21.33	0.0277	1206
21.58	0.0372	1621
21.83	0.0483	2104
22.08	0.0977	4256
22.33	0.7444	32427
22.58	3.3260	144881
22.83	5.4895	239123
23.08	7.0333	306369
23.33	10.8144	471073
23.58	17.5553	764710
23.83	26.9050	1171984
24.08	34.5027	1502938
24.33	39.5631	1723367
24.58	43.6791	1902661

Stage [ft]	Area [ac]	Area [ft2]
24.83	47.7253	2078915
25.08	52.3568	2280664
25.33	56.4566	2459248
25.58	59.1891	2578279
25.83	60.4326	2632443
26.08	61.1238	2662552
26.33	61.5897	2682846
26.58	61.9113	2696855
26.83	62.1249	2706161
27.08	62.2749	2712696
27.33	62.3694	2716811
27.58	62.4207	2719047
27.83	62.4481	2720239
28.08	62.4630	2720888
28.33	62.4702	2721201
28.58	62.4756	2721438
28.83	62.4803	2721642
29.08	62.4846	2721831
29.33	62.4888	2722012
29.58	62.4927	2722182
29.83	62.4963	2722340
30.08	62.4997	2722487
30.33	62.5028	2722622
30.58	62.5051	2722724
30.83	62.5074	2722822
31.08	62.5093	2722907
31.33	62.5109	2722976
31.58	62.5123	2723035
31.83	62.5136	2723091
32.08	62.5143	2723123
32.33	62.5145	2723131

Comment:

Node: WETLAND 7

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
20.42	0.0001	4
20.43	0.0002	9
20.68	0.0013	55

Stage [ft]	Area [ac]	Area [ft2]
20.93	0.0101	438
21.18	0.0402	1750
21.43	0.1726	7517
21.68	0.4917	21417
21.93	2.8642	124765
22.18	8.0513	350713
22.43	11.5521	503211
22.68	14.0054	610077
22.93	15.7263	685039
23.18	17.0785	743939
23.43	18.4449	803460
23.68	19.9052	867071
23.93	21.8866	953378
24.18	26.6630	1161441
24.43	35.4982	1546302
24.68	46.3111	2017311
24.93	55.0702	2398859
25.18	58.6283	2553848
25.43	60.8409	2650229
25.68	62.9633	2742680
25.93	64.6479	2816064
26.18	65.7064	2862169
26.43	66.1616	2881998
26.68	66.3779	2891419
26.93	66.4893	2896273
27.18	66.5336	2898202
27.43	66.5480	2898831
27.68	66.5520	2899005
27.93	66.5543	2899104
28.18	66.5559	2899176
28.43	66.5572	2899231
28.68	66.5580	2899266
28.93	66.5583	2899279
29.18	66.5583	2899279

Comment:

Node: WETLAND 8

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4

Stage [ft]	Area [ac]	Area [ft2]
21.32	0.0001	4
21.33	0.0295	1285
21.58	0.9179	39985
21.83	1.8110	78889
22.08	3.1854	138757
22.33	4.6246	201446
22.58	6.1222	266682
22.83	7.8787	343195
23.08	20.3830	887882
23.33	33.5073	1459578
23.58	43.7079	1903918
23.83	52.2254	2274937
24.08	61.3363	2671811
24.33	69.7047	3036337
24.58	80.2236	3494539
24.83	91.1508	3970530
25.08	99.5617	4336906
25.33	104.2366	4540548
25.58	107.2245	4670700
25.83	109.7811	4782064
26.08	111.5128	4857499
26.33	112.5954	4904658
26.58	113.4901	4943629
26.83	114.1864	4973961
27.08	114.5538	4989962
27.33	114.7278	4997542
27.58	114.7946	5000451
27.83	114.8199	5001553
28.08	114.8359	5002251
28.33	114.8380	5002343

Comment:

Channel Link: CH-DMY1-DMY2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.41 ft	Invert:	23.16 ft
From Node:	DUMMY 1	Manning's N:	0.0210	Manning's N:	0.0210
To Node:	DUMMY 2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	999.00 ft	Max Depth:	999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	2.00 ft	Bottom Width:	2.00 ft
Length:	289.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.20	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.20	Op Table:		Op Table:	
Bend Loss Coef:	0.50	Ref Node:		Ref Node:	

Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SW1-SW2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	TC COMMERCIAL	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	99999.00 ft	Max Depth:	99999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1264.66 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN2-SWN3		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N2	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N3	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1276.49 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft

	Op Table:		Op Table:
	Ref Node:		Ref Node:
	Manning's N:	0.0300	Manning's N: 0.0300

Comment:

Channel Link: CH-SWN3-SWN4		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N3	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N4	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1719.15 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN4-TC OUTFALL		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N4	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	TC TAILWATER	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	70.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-WETLAND 1-DP DMY 1		Upstream		Downstream	
Scenario:	Icpr3	Invert:	25.50 ft	Invert:	25.50 ft
From Node:	WETLAND 1	Manning's N:	0.0500	Manning's N:	0.0500
To Node:	DP DMY 1	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0100 ft	Bottom Width:	10.00 ft	Bottom Width:	10.00 ft
Length:	2035.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.00	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	1.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Rating Curve Link: CS1-DRD-N3

Scenario: Icpr3
From Node: Daniels Road
To Node: Swale N3
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-12	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-N4

Scenario: Icpr3
From Node: Daniels Road
To Node: Swale N4
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-11	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-14	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-7	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DS1-DRD

Scenario: Icpr3
From Node: Daniels Road
To Node: WETLAND 2
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-9	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-15	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-8	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DS1-DRD

Scenario: Icpr3
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-13	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-16	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-10	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Drop Structure Link: DS-BASIN 10-WETLAND 1

Scenario: Icpr3
From Node: BASIN 10
To Node: WETLAND 1
Link Count: 1
Flow Direction: None
Solution: Combine
Increments: 0
Pipe Count: 1
Damping: 0.0100 ft
Length: 350.00 ft
FHWA Code: 1
Entr Loss Coef: 0.20
Exit Loss Coef: 0.50
Bend Loss Coef: 0.00
Bend Location: 0.00 dec
Energy Switch: Energy

Upstream Pipe		Downstream Pipe	
Invert:	19.00 ft	Invert:	19.00 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		Geometry: Circular	
Max Depth:	4.00 ft	Max Depth:	4.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir: 1
Weir Count: 1
Weir Flow Direction: Both
Damping: 0.0100 ft
Weir Type: Sharp Crested Vertical
Geometry Type: Rectangular

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft

Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	0.25 ft
Max Width:	0.69 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	26.42 ft
Control Elevation:	25.50 ft
Max Depth:	0.45 ft
Max Width:	0.44 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component

Weir:	3
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	28.10 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	15.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 11-WETLAND 6	Upstream Pipe	Downstream Pipe
Scenario: Icpr3	Invert: 19.00 ft	Invert: 19.00 ft
	Manning's N: 0.0120	Manning's N: 0.0120

From Node:	BASIN 11
To Node:	WETLAND 6
Link Count:	1
Flow Direction:	None
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Geometry: Circular		Geometry: Circular	
Max Depth:	4.00 ft	Max Depth:	4.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	26.15 ft
Control Elevation:	25.50 ft
Max Depth:	0.50 ft
Max Width:	2.69 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component	
Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	28.00 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	15.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 14-WETLAND 7		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 14	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	WETLAND 7	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	None	Bottom Clip		Bottom Clip	
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	350.00 ft	Top Clip		Top Clip	
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.20	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	26.15 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	0.50 ft	Weir Default:	3.200
Max Width:	2.69 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	2	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	28.00 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	15.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 8-WETLAND 1		Upstream Pipe		Downstream Pipe	
		Invert:	19.00 ft	Invert:	19.00 ft
Scenario:	Icpr3	Manning's N:	0.0120	Manning's N:	0.0120
From Node:	BASIN 8	Geometry: Circular		Geometry: Circular	
To Node:	WETLAND 1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	None	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	350.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.20	Ref Node:		Ref Node:	
Exit Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0100 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	0.25 ft	Discharge Coefficients	
Max Width:	3.23 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component			
Weir:	2	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft

Invert:	28.00 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	15.00 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 9-WETLAND 5	
Scenario:	Icpr3
From Node:	BASIN 9
To Node:	WETLAND 5
Link Count:	1
Flow Direction:	None
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe	
Invert:	19.00 ft
Manning's N:	0.0120
Geometry: Circular	
Max Depth:	4.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	19.00 ft
Manning's N:	0.0120
Geometry: Circular	
Max Depth:	4.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	0.50 ft
Max Width:	2.69 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	2	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	28.00 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	15.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN C1-BASIN 2		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN C1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 2	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Positive	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	350.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.20	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft		

Control Elevation:	25.50 ft
Max Depth:	0.50 ft
Max Width:	1.23 ft
Fillet:	0.00 ft

Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-DMY2-EB TW		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.16 ft	Invert:	23.36 ft
From Node:	DUMMY 2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.20	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	999.00 ft	Discharge Coefficients	
Max Width:	999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-DP DMY 1-TC COMMERCIAL		Upstream Pipe		Downstream Pipe	
		Invert:	22.23 ft	Invert:	22.23 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	DP DMY 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	TC COMMERCIAL	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	187.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.50				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N2		Upstream Pipe		Downstream Pipe	
		Invert:	22.53 ft	Invert:	22.53 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	Swale N2	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	

Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	195.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0100 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	9999.00 ft	Discharge Coefficients	
Max Width:	9999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N3		Upstream Pipe		Downstream Pipe	
		Invert:	22.36 ft	Invert:	22.34 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	Swale N3	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	206.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 2-SWALE N4		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	24.08 ft	Invert:	24.11 ft
From Node:	WETLAND 2	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	Swale N4	**Geometry: Horizontal Ellipse**		**Geometry: Horizontal Ellipse**	
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Flow Direction:	Both	**Bottom Clip**			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	204.00 ft	**Top Clip**			
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular		

Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 2-WETLAND 5	
Scenario:	Icpr3
From Node:	WETLAND 2
To Node:	WETLAND 5
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	1650.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	19.00 ft	Invert:	19.00 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		Geometry: Circular	
Max Depth:	2.00 ft	Max Depth:	2.00 ft
Bottom Clip		Bottom Clip	
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip		Top Clip	
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.80 ft
Control Elevation:	25.50 ft
Max Depth:	9999.00 ft
Max Width:	15.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 2	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	52.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 2-TIMBER CREEK OUTFALL		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	24.74 ft	Invert:	23.88 ft
From Node:	WETLAND 2	Manning's N:	0.0140	Manning's N:	0.0140
		Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	

To Node:	TC TAILWATER	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	160.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.00 ft	Ref Node:	
Max Depth:	9999.00 ft	Discharge Coefficients	
Max Width:	9999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	36.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	

Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 2-TIMBER CREEK OUTFALL		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	24.26 ft	Invert:	24.25 ft
From Node:	WETLAND 2	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	TC TAILWATER	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Flow Direction:	Both	**Bottom Clip**			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	2	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	177.00 ft	**Top Clip**			
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip
Weir:	1	

Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS3-WETLAND 2-AIRPORT BASIN 11

Scenario:	Icpr3
From Node:	WETLAND 2
To Node:	AirportBasin11
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	33.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe

Invert:	23.50 ft
Manning's N:	0.0140

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	23.50 ft
Manning's N:	0.0140

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Max Width:	999.00 ft
Fillet:	0.00 ft

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS4-WETLAND 2-AIRPORT BASIN 11	
Scenario:	Icpr3
From Node:	WETLAND 2
To Node:	AirportBasin11
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	31.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe	
Invert:	23.50 ft
Manning's N:	0.0140
Geometry: Circular	
Max Depth:	2.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	23.50 ft
Manning's N:	0.0140
Geometry: Circular	
Max Depth:	2.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Weir Link: OW-PRESERVE 1- WETLAND 8

Scenario:	Icpr3	**Bottom Clip**	
From Node:	PRESERVE 1	Default:	0.00 ft
To Node:	WETLAND 8	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.12 ft	**Discharge Coefficients**	
Control Elevation:	25.08 ft	Weir Default:	2.800
Cross Section:	OW-PRESERVE 1-WETLAND 8	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-PRESERVE 1-W7

Scenario:	Icpr3	**Bottom Clip**	
From Node:	PRESERVE 1	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.12 ft	**Discharge Coefficients**	
Control Elevation:	25.08 ft	Weir Default:	2.800
Cross Section:	OW-PRESERVE 1-WETLAND 8	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W3-W5

Scenario:	Icpr3	**Bottom Clip**	
From Node:	WETLAND 3	Default:	0.00 ft
To Node:	WETLAND 5	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.68 ft	**Discharge Coefficients**	
Control Elevation:	25.63 ft	Weir Default:	2.800
Cross Section:	OW-W3-W5	Weir Table:	
		Orifice Default:	0.600

	Orifice Table:

Comment:

Weir Link: OW-W5-W6

Scenario:	Icpr3	**Bottom Clip**	
From Node:	WETLAND 5	Default:	0.00 ft
To Node:	WETLAND 6	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.37 ft	**Discharge Coefficients**	
Control Elevation:	25.32 ft	Weir Default:	2.800
Cross Section:	OW-W5-W6	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W6-W7

Scenario:	Icpr3	**Bottom Clip**	
From Node:	WETLAND 6	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.20 ft	**Discharge Coefficients**	
Control Elevation:	25.16 ft	Weir Default:	2.800
Cross Section:	W6-W7	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W7-EB TW DMY

Scenario:	Icpr3	**Bottom Clip**	
From Node:	WETLAND 8	Default:	0.00 ft
To Node:	EB TAILWATER	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	

Damping:	0.0100 ft
Weir Type:	Gravel Road Vertical
Geometry Type:	Irregular
Invert:	25.20 ft
Control Elevation:	25.00 ft
Cross Section:	OW-W7-EB TW DMY

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-W7-W8

Scenario:	Icpr3
From Node:	WETLAND 7
To Node:	WETLAND 8
Link Count:	1
Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.27 ft
Control Elevation:	25.00 ft
Cross Section:	W7-W8

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Pipe Link: P-BASIN 1-BASIN 3

Scenario:	Icpr3
From Node:	BASIN 1
To Node:	BASIN 3
Link Count:	1
Flow Direction:	Both
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream		Downstream	
Invert:	19.00 ft	Invert:	19.00 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		**Geometry: Circular**	
Max Depth:	2.50 ft	Max Depth:	2.50 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 11-BASIN 9		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 11	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 9	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1860.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P-BASIN 12-BASIN 11		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 12	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P-BASIN 13-BASIN 7		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 13	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 7	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	3300.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 14-BASIN 13		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 14	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 13	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 2-BASIN 3		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 3	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 4		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft

From Node:	BASIN 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 4	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 5		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 5	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 6		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 6	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	

Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 4-BASIN 7		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 7	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 5-BASIN 8		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 5	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 8	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 6-BASIN 8		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 6	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 8	Geometry: Circular		Geometry: Circular	

Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 7-BASIN 8		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 8	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 7-BASIN 9		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 9	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 8-BASIN 9		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 9	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-EB OUTFALL-EB TW		Upstream		Downstream	
Scenario:	Icpr3	Invert:	21.95 ft	Invert:	21.84 ft
From Node:	EB OUTFALL	Manning's N:	0.0120	Manning's N:	0.0120
	DUMMY	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	EB TAILWATER	Max Depth:	3.17 ft	Max Depth:	3.17 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	36.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-WETLAND 1-WETLAND 2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	WETLAND 1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
Link Count:	3	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			

Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	250.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-WETLAND 4-WETLAND 5		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	WETLAND 4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	WETLAND 5	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-WETLAND 5-DMY1		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.12 ft	Invert:	23.41 ft
From Node:	PRESERVE 1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DUMMY 1	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P1-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.65 ft	Invert:	23.75 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P2-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	24.16 ft	Invert:	24.14 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
	DUMMY	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P3-DS-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.41 ft	Invert:	23.41 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			

Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P4-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	22.84 ft	Invert:	22.76 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P5-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	22.75 ft	Invert:	22.68 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Channel Link: CH-DMY1-DMY2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.41 ft	Invert:	23.16 ft

From Node:	DUMMY 1	Manning's N:	0.0210	Manning's N:	0.0210
To Node:	DUMMY 2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	999.00 ft	Max Depth:	999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	2.00 ft	Bottom Width:	2.00 ft
Length:	289.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.20	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.20	Op Table:		Op Table:	
Bend Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SW1-SW2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	TC COMMERCIAL	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	99999.00 ft	Max Depth:	99999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1264.66 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN2-SWN3		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N2	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N3	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft

Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1276.49 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN3-SWN4		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N3	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N4	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1719.15 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-SWN4-TC OUTFALL		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N4	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	TC TAILWATER	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	70.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)

Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0300	Manning's N:	0.0300
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0300	Manning's N:	0.0300

Comment:

Channel Link: CH-WETLAND 1-DP DMY 1		Upstream		Downstream	
Scenario:	Icpr3	Invert:	25.50 ft	Invert:	25.50 ft
From Node:	WETLAND 1	Manning's N:	0.0500	Manning's N:	0.0500
To Node:	DP DMY 1	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0100 ft	Bottom Width:	10.00 ft	Bottom Width:	10.00 ft
Length:	2035.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.00	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	1.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 1-BASIN 3		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 3	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 11-BASIN 9		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 11	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 9	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1860.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 12-BASIN 11		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 12	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 13-BASIN 7		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft

From Node:	BASIN 13	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 7	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	3300.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 14-BASIN 13		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 14	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 13	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 2-BASIN 3		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 3	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	

Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 4		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 4	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 5		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 5	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 6		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 6	Geometry: Circular		Geometry: Circular	

Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 4-BASIN 7		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 7	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 5-BASIN 8		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 5	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 8	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 6-BASIN 8		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 6	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 8	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 7-BASIN 8		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 8	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 7-BASIN 9		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 9	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			

Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 8-BASIN 9		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	BASIN 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	BASIN 9	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-EB OUTFALL-EB TW		Upstream		Downstream	
Scenario:	Icpr3	Invert:	21.95 ft	Invert:	21.84 ft
From Node:	EB OUTFALL	Manning's N:	0.0120	Manning's N:	0.0120
	DUMMY	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	EB TAILWATER	Max Depth:	3.17 ft	Max Depth:	3.17 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	36.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-WETLAND 1-WETLAND 2		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	WETLAND 1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
Link Count:	3	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	250.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-WETLAND 4-WETLAND 5		Upstream		Downstream	
Scenario:	Icpr3	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	WETLAND 4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	WETLAND 5	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-WETLAND 5-DMY1		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.12 ft	Invert:	23.41 ft
From Node:	PRESERVE 1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DUMMY 1	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P1-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.65 ft	Invert:	23.75 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P2-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	24.16 ft	Invert:	24.14 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
	DUMMY	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P3-DS-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	23.41 ft	Invert:	23.41 ft

From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P4-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	22.84 ft	Invert:	22.76 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P5-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Icpr3	Invert:	22.75 ft	Invert:	22.68 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	

Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Weir Link: OW-PRESERVE 1- WETLAND 8

Scenario:	Icpr3	**Bottom Clip**	
From Node:	PRESERVE 1	Default:	0.00 ft
To Node:	WETLAND 8	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.12 ft	**Discharge Coefficients**	
Control Elevation:	25.08 ft	Weir Default:	2.800
Cross Section:	OW-PRESERVE 1-WETLAND 8	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-PRESERVE 1-W7

Scenario:	Icpr3	**Bottom Clip**	
From Node:	PRESERVE 1	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.12 ft	**Discharge Coefficients**	
Control Elevation:	25.08 ft	Weir Default:	2.800
Cross Section:	OW-PRESERVE 1-WETLAND 8	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W3-W5

Scenario:	Icpr3	**Bottom Clip**	
From Node:	WETLAND 3	Default:	0.00 ft
To Node:	WETLAND 5	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	**Top Clip**	

Damping:	0.0100 ft		
Weir Type:	Broad Crested Vertical	Default:	0.00 ft
Geometry Type:	Irregular	Op Table:	
Invert:	25.68 ft	Ref Node:	
Control Elevation:	25.63 ft	Discharge Coefficients	
Cross Section:	OW-W3-W5	Weir Default:	2.800
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W5-W6

Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 5	Default:	0.00 ft
To Node:	WETLAND 6	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.37 ft	Discharge Coefficients	
Control Elevation:	25.32 ft	Weir Default:	2.800
Cross Section:	OW-W5-W6	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W6-W7

Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 6	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.20 ft	Discharge Coefficients	
Control Elevation:	25.16 ft	Weir Default:	2.800
Cross Section:	W6-W7	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W7-EB TW DMY			
Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 8	Default:	0.00 ft
To Node:	EB TAILWATER	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Gravel Road Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.20 ft	Discharge Coefficients	
Control Elevation:	25.00 ft	Weir Default:	2.800
Cross Section:	OW-W7-EB TW DMY	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W7-W8			
Scenario:	Icpr3	Bottom Clip	
From Node:	WETLAND 7	Default:	0.00 ft
To Node:	WETLAND 8	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.27 ft	Discharge Coefficients	
Control Elevation:	25.00 ft	Weir Default:	2.800
Cross Section:	W7-W8	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Drop Structure Link: DS-BASIN 10-WETLAND 1		Upstream Pipe		Downstream Pipe	
		Invert:	19.00 ft	Invert:	19.00 ft
Scenario:	Icpr3	Manning's N:	0.0120	Manning's N:	0.0120
From Node:	BASIN 10	Geometry: Circular		Geometry: Circular	
To Node:	WETLAND 1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	None	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	350.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	

Entr Loss Coef:	0.20	Ref Node:		Ref Node:	
Exit Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	0.25 ft	Weir Default:	3.200
Max Width:	0.69 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	2	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	26.42 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	0.45 ft	Weir Default:	3.200
Max Width:	0.44 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	3	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	28.10 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	15.00 ft		

Fillet:	0.00 ft

Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 11-WETLAND 6	
Scenario:	Icpr3
From Node:	BASIN 11
To Node:	WETLAND 6
Link Count:	1
Flow Direction:	None
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe	
Invert:	19.00 ft
Manning's N:	0.0120
Geometry: Circular	
Max Depth:	4.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	19.00 ft
Manning's N:	0.0120
Geometry: Circular	
Max Depth:	4.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	26.15 ft
Control Elevation:	25.50 ft
Max Depth:	0.50 ft
Max Width:	2.69 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component	
Weir:	2
Weir Count:	1

Bottom Clip	
Default:	0.00 ft

Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	28.00 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	15.00 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 14-WETLAND 7	
Scenario:	Icpr3
From Node:	BASIN 14
To Node:	WETLAND 7
Link Count:	1
Flow Direction:	None
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	19.00 ft	Invert:	19.00 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		Geometry: Circular	
Max Depth:	4.00 ft	Max Depth:	4.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	26.15 ft
Control Elevation:	25.50 ft
Max Depth:	0.50 ft
Max Width:	2.69 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200

Fillet:	0.00 ft		
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component			
Weir:	2	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	28.00 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	999.00 ft	Discharge Coefficients	
Max Width:	15.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 8-WETLAND 1		Upstream Pipe		Downstream Pipe	
		Invert:	19.00 ft	Invert:	19.00 ft
Scenario:	Icpr3	Manning's N:	0.0120	Manning's N:	0.0120
From Node:	BASIN 8	Geometry: Circular		Geometry: Circular	
To Node:	WETLAND 1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	None	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	350.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.20	Ref Node:		Ref Node:	
Exit Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft

Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	0.25 ft
Max Width:	3.23 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component	
Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	28.00 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	15.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 9-WETLAND 5	
Scenario:	Icpr3
From Node:	BASIN 9
To Node:	WETLAND 5
Link Count:	1
Flow Direction:	None
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50

Upstream Pipe	
Invert:	19.00 ft
Manning's N:	0.0120
Geometry: Circular	
Max Depth:	4.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	19.00 ft
Manning's N:	0.0120
Geometry: Circular	
Max Depth:	4.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Bend Loss Coef: 0.00
Bend Location: 0.00 dec
Energy Switch: Energy

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	0.50 ft	Weir Default:	3.200
Max Width:	2.69 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	2	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	28.00 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	15.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN C1-BASIN 2		Upstream Pipe		Downstream Pipe	
		Invert:	19.00 ft	Invert:	19.00 ft
Scenario:	Icpr3	Manning's N:	0.0120	Manning's N:	0.0120
From Node:	BASIN C1	Geometry: Circular		Geometry: Circular	
To Node:	BASIN 2	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Positive	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	

Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	350.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.20	Ref Node:		Ref Node:	
Exit Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0100 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	0.50 ft	Discharge Coefficients	
Max Width:	1.23 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-DMY2-EB TW		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.16 ft	Invert:	23.36 ft
From Node:	DUMMY 2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.20	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-DP DMY 1-TC COMMERCIAL		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	22.23 ft	Invert:	22.23 ft
From Node:	DP DMY 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	TC COMMERCIAL	**Geometry: Horizontal Ellipse**		**Geometry: Horizontal Ellipse**	
Link Count:	1	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Flow Direction:	Both	**Bottom Clip**			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	187.00 ft	**Top Clip**			
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular		

Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	999.00 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N2

Scenario:	Icpr3
From Node:	WETLAND 1
To Node:	Swale N2
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	195.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	22.53 ft	Invert:	22.53 ft
Manning's N:	0.0140	Manning's N:	0.0140
Geometry: Horizontal Ellipse		**Geometry: Horizontal Ellipse**	
Max Depth:	1.58 ft	Max Depth:	1.58 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N3		Upstream Pipe		Downstream Pipe	
		Invert:	22.36 ft	Invert:	22.34 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	Swale N3	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	206.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 2-SWALE N4		Upstream Pipe		Downstream Pipe	
		Invert:	24.08 ft	Invert:	24.11 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	

To Node:	Swale N4	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	204.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.00 ft	Ref Node:	
Max Depth:	9999.00 ft	Discharge Coefficients	
Max Width:	9999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 2-WETLAND 5		Upstream Pipe		Downstream Pipe	
		Invert:	19.00 ft	Invert:	19.00 ft
Scenario:	Icpr3	Manning's N:	0.0120	Manning's N:	0.0120
From Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
To Node:	WETLAND 5	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0000 ft	Top Clip			
Length:	1650.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	

Entr Loss Coef:	0.20	Ref Node:		Ref Node:	
Exit Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.80 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	15.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 2	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	**Bottom Clip**			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	52.00 ft	**Top Clip**			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip
Weir:	1	

Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	999.00 ft
Fillet:	0.00 ft

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 2-TIMBER CREEK OUTFALL

Scenario:	Icpr3
From Node:	WETLAND 2
To Node:	TC TAILWATER
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	160.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe

Invert:	24.74 ft
Manning's N:	0.0140

Geometry: Horizontal Ellipse

Max Depth:	1.17 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	23.88 ft
Manning's N:	0.0140

Geometry: Horizontal Ellipse

Max Depth:	1.17 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Max Width:	9999.00 ft
Fillet:	0.00 ft

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Icpr3	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 2	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	36.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 2-TIMBER CREEK OUTFALL		Upstream Pipe		Downstream Pipe	
		Invert:	24.26 ft	Invert:	24.25 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	TC TAILWATER	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	2	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	177.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.00 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS3-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	

Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	33.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	999.00 ft	Discharge Coefficients	
Max Width:	999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS4-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Icpr3	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	31.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	999.00 ft
Max Width:	999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Rating Curve Link: CS1-DRD-N3

Scenario: Icpr3
From Node: Daniels Road
To Node: Swale N3
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-12	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-N4

Scenario: Icpr3
From Node: Daniels Road
To Node: Swale N4
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-11	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-14	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-7	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DS1-DRD

Scenario: Icpr3
From Node: Daniels Road
To Node: WETLAND 2
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-9	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-15	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-8	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DS1-DRD

Scenario: Icpr3
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-13	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC COM

Scenario: Icpr3
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-16	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC OUTFALL

Scenario: Icpr3
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-10	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Weir Cross Section: OW-PRESERVE 1-WETLAND 8

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.12
1	28.80	25.17
2	65.07	25.21
3	105.84	25.20

Comment:

Weir Cross Section: OW-W3-W5

Scenario: Icpr3
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.70
1	116.97	25.68
2	205.40	25.81
3	276.02	25.82
4	370.52	25.69
5	434.55	25.68

Comment:

Weir Cross Section: OW-W5-W6

Scenario: Icpr3

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.37
1	280.70	25.42
2	523.56	25.47
3	810.54	25.72
4	1163.11	25.51
5	1546.54	25.49

Comment:

Weir Cross Section: OW-W7-EB TW DMY

Scenario: Icpr3

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.20
1	1657.16	25.60
2	2942.13	25.20
3	3153.57	26.10

Comment:

Weir Cross Section: W6-W7

Scenario: Icpr3

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.23
1	182.02	26.17
2	335.72	25.20
3	475.57	25.22

Comment:

Weir Cross Section: W7-W8

Scenario: Icpr3

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.46
1	128.68	25.32
2	302.59	25.27

Comment:

Curve Number: Icpr3 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
AirportBasin11	AirportBasin11	95.5
BASIN 1	BASIN 1	92.3
BASIN 10	BASIN 10	93.0
BASIN 11	BASIN 11	91.9
BASIN 12	BASIN 12	89.5
BASIN 13	BASIN 13	92.8
BASIN 14	BASIN 14	93.1
BASIN 2	BASIN 2	91.4
BASIN 3	BASIN 3	91.4
BASIN 4	BASIN 4	92.4
BASIN 5	BASIN 5	91.7
BASIN 6	BASIN 6	92.1
BASIN 7	BASIN 7	91.7
BASIN 8	BASIN 8	91.2
BASIN 9	BASIN 9	92.3
C1	C1	94.7
DANIELS SOUTH	DANIELS SOUTH	97.8
NG1	NG1	98.7
OFFSITE 1	OFFSITE 1	95.9
OFFSITE 2	OFFSITE 2	94.2
PRESERVE 1	PRESERVE 1	88.8
SWALE N2	SWALE N2	98.0
SWALE N3	SWALE N3	98.0
SWALE N4	SWALE N4	98.0
SWALE OFF1	SWALE OFF1	98.0
W1	W1	98.1
W10	W10	98.3
W2	W2	98.2
W3	W3	98.3
W4	W4	98.3
W5-W7-W8N	W5-W7-W8N	98.1
W6	W6	98.4
W9	W9	98.7
WETLAND 1	WETLAND 1	99.3
WETLAND 2	WETLAND 2	99.0

Land Cover Zone	Soil Zone	Curve Number [dec]
WETLAND 3	WETLAND 3	92.2
WETLAND 4	WETLAND 4	97.0
WETLAND 5	WETLAND 5	96.1
WETLAND 6	WETLAND 6	97.8
WETLAND 7	WETLAND 7	97.8
WETLAND 8	WETLAND 8	97.8

Rating Curve: CS-10

Scenario: Icpr3

Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.01
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.02
0	0	0	9.0000	0.02
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.03
0	0	0	11.0000	0.03
0	0	0	11.5000	0.03
0	0	0	12.0000	0.04
0	0	0	12.5000	0.04
0	0	0	13.0000	0.04
0	0	0	13.5000	0.05
0	0	0	14.0000	0.05
0	0	0	14.5000	0.05
0	0	0	15.0000	0.05
0	0	0	15.5000	0.06
0	0	0	16.0000	0.06
0	0	0	16.5000	0.06

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	17.0000	0.07
0	0	0	17.5000	0.07
0	0	0	18.0000	0.07
0	0	0	18.5000	0.08
0	0	0	19.0000	0.08
0	0	0	19.5000	0.08
0	0	0	20.0000	0.08
0	0	0	20.5000	0.09
0	0	0	21.0000	0.09
0	0	0	21.5000	0.09
0	0	0	22.0000	0.09
0	0	0	22.5000	0.10
0	0	0	23.0000	0.10
0	0	0	23.5000	0.10
0	0	0	24.0000	0.10
0	0	0	24.5000	0.11
0	0	0	25.0000	0.11
0	0	0	25.5000	0.12
0	0	0	26.0000	0.12
0	0	0	26.5000	0.13
0	0	0	27.0000	0.13
0	0	0	27.5000	0.14
0	0	0	28.0000	0.14
0	0	0	28.5000	0.15
0	0	0	29.0000	0.15
0	0	0	29.5000	0.16
0	0	0	30.0000	0.16
0	0	0	30.5000	0.16
0	0	0	31.0000	0.17
0	0	0	31.5000	0.17
0	0	0	32.0000	0.17
0	0	0	32.5000	0.18
0	0	0	33.0000	0.18
0	0	0	33.5000	0.18
0	0	0	34.0000	0.19
0	0	0	34.5000	0.19
0	0	0	35.0000	0.19
0	0	0	35.5000	0.19
0	0	0	36.0000	0.20
0	0	0	36.5000	0.20
0	0	0	37.0000	0.20
0	0	0	37.5000	0.20
0	0	0	38.0000	0.21
0	0	0	38.5000	0.21
0	0	0	39.0000	0.21
0	0	0	39.5000	0.21
0	0	0	40.0000	0.21
0	0	0	40.5000	0.21
0	0	0	41.0000	0.22

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	41.5000	0.22
0	0	0	42.0000	0.22
0	0	0	42.5000	0.22
0	0	0	43.0000	0.22
0	0	0	43.5000	0.22
0	0	0	44.0000	0.22
0	0	0	44.5000	0.22
0	0	0	45.0000	0.22
0	0	0	45.5000	0.22
0	0	0	46.0000	0.22
0	0	0	46.5000	0.23
0	0	0	47.0000	0.23
0	0	0	47.5000	0.23
0	0	0	48.0000	0.23
0	0	0	48.5000	0.23
0	0	0	48.7500	0.23
0	0	0	49.0000	0.23
0	0	0	49.2500	0.23
0	0	0	49.5000	0.23
0	0	0	49.7500	0.23
0	0	0	50.0000	0.24
0	0	0	50.2500	0.23
0	0	0	50.5000	0.24
0	0	0	50.7500	0.24
0	0	0	51.0000	0.24
0	0	0	51.2500	0.25
0	0	0	51.5000	0.25
0	0	0	51.7500	0.25
0	0	0	52.0000	0.25
0	0	0	52.2500	0.26
0	0	0	52.5000	0.27
0	0	0	52.7500	0.27
0	0	0	53.0000	0.27
0	0	0	53.2500	0.28
0	0	0	53.5000	0.29
0	0	0	53.7500	0.30
0	0	0	54.0000	0.31
0	0	0	54.2500	0.32
0	0	0	54.5000	0.33
0	0	0	54.7500	0.34
0	0	0	55.0000	0.35
0	0	0	55.2500	0.36
0	0	0	55.4200	0.37
0	0	0	55.5800	0.38
0	0	0	55.7500	0.39
0	0	0	55.9200	0.40
0	0	0	56.0800	0.41
0	0	0	56.2500	0.41
0	0	0	56.4200	0.43

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	56.5800	0.44
0	0	0	56.7500	0.45
0	0	0	56.9200	0.46
0	0	0	57.0800	0.47
0	0	0	57.2500	0.48
0	0	0	57.4200	0.50
0	0	0	57.5800	0.51
0	0	0	57.7500	0.52
0	0	0	57.9200	0.54
0	0	0	58.0800	0.55
0	0	0	58.2500	0.57
0	0	0	58.4200	0.59
0	0	0	58.5800	0.61
0	0	0	58.7500	0.63
0	0	0	58.9200	0.66
0	0	0	59.0800	0.69
0	0	0	59.2500	0.73
0	0	0	59.4200	0.78
0	0	0	59.5800	0.88
0	0	0	59.7500	2.96
0	0	0	59.9200	6.77
0	0	0	60.0800	9.89
0	0	0	60.2500	9.58
0	0	0	60.4200	8.25
0	0	0	60.5800	7.11
0	0	0	60.7500	5.99
0	0	0	60.9200	5.07
0	0	0	61.0800	4.37
0	0	0	61.3300	3.52
0	0	0	61.5800	2.92
0	0	0	61.8300	2.48
0	0	0	62.0800	2.14
0	0	0	62.3300	1.84
0	0	0	62.5800	1.61
0	0	0	62.8300	1.41
0	0	0	63.0800	1.27
0	0	0	63.3300	1.15
0	0	0	63.5800	1.07
0	0	0	63.8300	0.99
0	0	0	64.0800	0.93
0	0	0	64.3300	0.83
0	0	0	64.5800	0.73
0	0	0	64.8300	0.65
0	0	0	65.0800	0.58
0	0	0	65.3300	0.51
0	0	0	65.5800	0.44
0	0	0	65.8300	0.46
0	0	0	66.0800	0.39
0	0	0	66.3300	0.33

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	66.5800	0.38
0	0	0	66.8300	0.30
0	0	0	67.0800	0.37
0	0	0	67.3300	0.27
0	0	0	67.5800	0.36
0	0	0	67.8300	0.42
0	0	0	68.0800	0.28
0	0	0	68.3300	0.32
0	0	0	68.5800	0.33
0	0	0	68.8300	0.08
0	0	0	69.0800	0.22
0	0	0	69.3300	0.29
0	0	0	69.5800	0.32
0	0	0	69.8300	0.04
0	0	0	70.0800	0.22
0	0	0	70.3300	0.29
0	0	0	70.5800	0.32
0	0	0	70.8300	0.02
0	0	0	71.0800	0.22
0	0	0	71.3300	0.30
0	0	0	71.5800	0.33
0	0	0	71.8300	0.34
0	0	0	72.0800	0.33
0	0	0	73.0800	-0.13
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.13
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.13
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.13
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.13
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.13
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.12
0	0	0	98.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.12
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.11
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.10
0	0	0	109.0800	0.02
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.09
0	0	0	113.0800	0.03
0	0	0	114.0800	0.01
0	0	0	115.0800	0.00
0	0	0	116.0800	0.07
0	0	0	117.0800	0.03
0	0	0	118.0800	0.01
0	0	0	119.0800	0.01
0	0	0	120.0800	0.06
0	0	0	121.0800	0.03
0	0	0	122.0800	0.02
0	0	0	123.0800	0.07
0	0	0	124.0800	0.04
0	0	0	125.0800	0.02
0	0	0	126.0800	0.01
0	0	0	127.0800	0.07
0	0	0	128.0800	0.04
0	0	0	129.0800	0.02
0	0	0	130.0800	0.01
0	0	0	131.0800	0.06
0	0	0	132.0800	0.04
0	0	0	133.0800	0.02
0	0	0	134.0800	0.01
0	0	0	135.0800	0.06
0	0	0	136.0800	0.04
0	0	0	137.0800	0.02
0	0	0	138.0800	0.01
0	0	0	139.0800	0.06
0	0	0	140.0800	0.04
0	0	0	141.0800	0.02
0	0	0	142.0800	0.01
0	0	0	143.0800	0.06
0	0	0	144.0800	0.04
0	0	0	145.0800	0.02
0	0	0	146.0800	0.01
0	0	0	147.0800	0.06

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	148.0800	0.04
0	0	0	149.0800	0.02
0	0	0	150.0800	0.01
0	0	0	151.0800	0.06
0	0	0	152.0800	0.04
0	0	0	153.0800	0.02
0	0	0	154.0800	0.07
0	0	0	155.0800	0.04
0	0	0	156.0800	0.02
0	0	0	157.0800	0.01
0	0	0	158.0800	0.06
0	0	0	159.0800	0.04
0	0	0	160.0800	0.02
0	0	0	161.0800	0.01
0	0	0	162.0800	0.06
0	0	0	163.0800	0.03
0	0	0	164.0800	0.02
0	0	0	165.0800	0.01
0	0	0	166.0800	0.06
0	0	0	167.0800	0.03
0	0	0	168.0800	0.02
0	0	0	169.0800	0.01
0	0	0	170.0800	0.06
0	0	0	171.0800	0.03
0	0	0	172.0800	0.02
0	0	0	173.0800	0.01
0	0	0	174.0800	0.06
0	0	0	175.0800	0.03
0	0	0	176.0800	0.02
0	0	0	177.0800	0.01
0	0	0	178.0800	0.06
0	0	0	179.0800	0.03
0	0	0	180.0800	0.02
0	0	0	181.0800	0.01
0	0	0	182.0800	0.06
0	0	0	183.0800	0.03
0	0	0	184.0800	0.02
0	0	0	185.0800	0.01
0	0	0	186.0800	0.06
0	0	0	187.0800	0.03
0	0	0	188.0800	0.02
0	0	0	189.0800	0.06
0	0	0	190.0800	0.04
0	0	0	191.0800	0.02
0	0	0	192.0800	0.01
0	0	0	193.0800	0.06
0	0	0	194.0800	0.03
0	0	0	195.0800	0.02
0	0	0	196.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	197.0800	0.06
0	0	0	198.0800	0.03
0	0	0	199.0800	0.02
0	0	0	200.0800	0.01
0	0	0	201.0800	0.06
0	0	0	202.0800	0.03
0	0	0	203.0800	0.02
0	0	0	204.0800	0.01
0	0	0	205.0800	0.06
0	0	0	206.0800	0.03
0	0	0	207.0800	0.02
0	0	0	208.0800	0.01
0	0	0	209.0800	0.06
0	0	0	210.0800	0.03
0	0	0	211.0800	0.02
0	0	0	212.0800	0.01
0	0	0	213.0800	0.06
0	0	0	214.0800	0.03
0	0	0	215.0800	0.02
0	0	0	216.0800	0.01
0	0	0	217.0800	0.06
0	0	0	218.0800	0.03
0	0	0	219.0800	0.02
0	0	0	220.0800	0.01
0	0	0	221.0800	0.05
0	0	0	222.0800	0.03
0	0	0	223.0800	0.02
0	0	0	224.0800	0.06
0	0	0	225.0800	0.04
0	0	0	226.0800	0.02
0	0	0	227.0800	0.01
0	0	0	228.0800	0.05
0	0	0	229.0800	0.03
0	0	0	230.0800	0.02
0	0	0	231.0800	0.01
0	0	0	232.0800	0.05
0	0	0	233.0800	0.03
0	0	0	234.0800	0.02
0	0	0	235.0800	0.01
0	0	0	236.0800	0.05
0	0	0	237.0800	0.03
0	0	0	238.0800	0.02
0	0	0	239.0800	0.01
0	0	0	240.0800	0.05
0	0	0	241.0800	0.03
0	0	0	242.0800	0.02
0	0	0	243.0800	0.01
0	0	0	244.0800	0.05
0	0	0	245.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	246.0800	0.02
0	0	0	247.0800	0.01
0	0	0	248.0800	0.05
0	0	0	249.0800	0.03
0	0	0	250.0800	0.02
0	0	0	251.0800	0.01
0	0	0	252.0800	0.05
0	0	0	253.0800	0.03
0	0	0	254.0800	0.02
0	0	0	255.0800	0.01
0	0	0	256.0800	0.05
0	0	0	257.0800	0.03
0	0	0	258.0800	0.02
0	0	0	259.0800	0.01
0	0	0	260.0800	0.05
0	0	0	261.0800	0.03
0	0	0	262.0800	0.02
0	0	0	263.0800	0.01
0	0	0	264.0800	0.05
0	0	0	265.0800	0.03
0	0	0	266.0800	0.02
0	0	0	267.0800	0.01
0	0	0	268.0800	0.05
0	0	0	269.0800	0.03
0	0	0	270.0800	0.02
0	0	0	271.0800	0.01
0	0	0	272.0800	0.05
0	0	0	273.0800	0.03
0	0	0	274.0800	0.02
0	0	0	275.0800	0.01
0	0	0	276.0800	0.05
0	0	0	277.0800	0.03
0	0	0	278.0800	0.02
0	0	0	279.0800	0.01
0	0	0	280.0800	0.05
0	0	0	281.0800	0.03
0	0	0	282.0800	0.02
0	0	0	283.0800	0.01
0	0	0	284.0800	0.05
0	0	0	285.0800	0.03
0	0	0	286.0800	0.02
0	0	0	287.0800	0.01
0	0	0	288.0800	0.04
0	0	0	289.0800	0.03
0	0	0	290.0800	0.02
0	0	0	291.0800	0.01
0	0	0	292.0800	0.04
0	0	0	293.0800	0.03
0	0	0	294.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	295.0800	0.01
0	0	0	296.0800	0.04
0	0	0	297.0800	0.03
0	0	0	298.0800	0.02
0	0	0	299.0800	0.01
0	0	0	300.0800	0.04
0	0	0	301.0800	0.03
0	0	0	302.0800	0.02
0	0	0	303.0800	0.01
0	0	0	304.0800	0.04
0	0	0	305.0800	0.03
0	0	0	306.0800	0.02
0	0	0	307.0800	0.01
0	0	0	308.0800	0.04
0	0	0	309.0800	0.03
0	0	0	310.0800	0.02
0	0	0	311.0800	0.01
0	0	0	312.0800	0.04
0	0	0	313.0800	0.03
0	0	0	314.0800	0.02
0	0	0	315.0800	0.02
0	0	0	316.0800	0.04
0	0	0	317.0800	0.03
0	0	0	318.0800	0.02
0	0	0	319.0800	0.02
0	0	0	320.0800	0.04
0	0	0	321.0800	0.03
0	0	0	322.0800	0.02
0	0	0	323.0800	0.02
0	0	0	324.0800	0.04
0	0	0	325.0800	0.03
0	0	0	326.0800	0.02
0	0	0	327.0800	0.02
0	0	0	328.0800	0.04
0	0	0	329.0800	0.03
0	0	0	330.0800	0.02
0	0	0	331.0800	0.02
0	0	0	332.0800	0.04
0	0	0	333.0800	0.03
0	0	0	334.0800	0.02
0	0	0	335.0800	0.02
0	0	0	336.0800	0.03
0	0	0	337.0800	0.03
0	0	0	338.0800	0.02
0	0	0	339.0800	0.02
0	0	0	340.0800	0.03
0	0	0	341.0800	0.03
0	0	0	342.0800	0.02
0	0	0	343.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	344.0800	0.01
0	0	0	345.0800	0.03
0	0	0	346.0800	0.03
0	0	0	347.0800	0.02
0	0	0	348.0800	0.02
0	0	0	349.0800	0.03
0	0	0	350.0800	0.03
0	0	0	351.0800	0.02
0	0	0	352.0800	0.02
0	0	0	353.0800	0.03
0	0	0	354.0800	0.03
0	0	0	355.0800	0.02
0	0	0	356.0800	0.02
0	0	0	357.0800	0.03
0	0	0	358.0800	0.03
0	0	0	359.0800	0.02
0	0	0	360.0000	0.02

Comment: Daniels Roadway Control Str# 10

Rating Curve: CS-11

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.01
0	0	0	5.5000	0.01
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.02
0	0	0	8.0000	0.02
0	0	0	8.5000	0.02
0	0	0	9.0000	0.03
0	0	0	9.5000	0.03
0	0	0	10.0000	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	10.5000	0.04
0	0	0	11.0000	0.04
0	0	0	11.5000	0.04
0	0	0	12.0000	0.05
0	0	0	12.5000	0.05
0	0	0	13.0000	0.06
0	0	0	13.5000	0.06
0	0	0	14.0000	0.06
0	0	0	14.5000	0.07
0	0	0	15.0000	0.07
0	0	0	15.5000	0.08
0	0	0	16.0000	0.08
0	0	0	16.5000	0.08
0	0	0	17.0000	0.09
0	0	0	17.5000	0.09
0	0	0	18.0000	0.10
0	0	0	18.5000	0.10
0	0	0	19.0000	0.10
0	0	0	19.5000	0.11
0	0	0	20.0000	0.11
0	0	0	20.5000	0.11
0	0	0	21.0000	0.12
0	0	0	21.5000	0.12
0	0	0	22.0000	0.12
0	0	0	22.5000	0.13
0	0	0	23.0000	0.13
0	0	0	23.5000	0.13
0	0	0	24.0000	0.14
0	0	0	24.5000	0.14
0	0	0	25.0000	0.15
0	0	0	25.5000	0.16
0	0	0	26.0000	0.16
0	0	0	26.5000	0.17
0	0	0	27.0000	0.18
0	0	0	27.5000	0.18
0	0	0	28.0000	0.19
0	0	0	28.5000	0.19
0	0	0	29.0000	0.20
0	0	0	29.5000	0.20
0	0	0	30.0000	0.21
0	0	0	30.5000	0.22
0	0	0	31.0000	0.22
0	0	0	31.5000	0.22
0	0	0	32.0000	0.23
0	0	0	32.5000	0.23
0	0	0	33.0000	0.24
0	0	0	33.5000	0.24
0	0	0	34.0000	0.25
0	0	0	34.5000	0.25

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	35.0000	0.25
0	0	0	35.5000	0.26
0	0	0	36.0000	0.26
0	0	0	36.5000	0.26
0	0	0	37.0000	0.27
0	0	0	37.5000	0.27
0	0	0	38.0000	0.27
0	0	0	38.5000	0.28
0	0	0	39.0000	0.28
0	0	0	39.5000	0.28
0	0	0	40.0000	0.28
0	0	0	40.5000	0.28
0	0	0	41.0000	0.29
0	0	0	41.5000	0.29
0	0	0	42.0000	0.29
0	0	0	42.5000	0.29
0	0	0	43.0000	0.29
0	0	0	43.5000	0.29
0	0	0	44.0000	0.29
0	0	0	44.5000	0.30
0	0	0	45.0000	0.30
0	0	0	45.5000	0.30
0	0	0	46.0000	0.30
0	0	0	46.5000	0.30
0	0	0	47.0000	0.30
0	0	0	47.5000	0.30
0	0	0	48.0000	0.30
0	0	0	48.5000	0.30
0	0	0	48.7500	0.31
0	0	0	49.0000	0.30
0	0	0	49.2500	0.31
0	0	0	49.5000	0.31
0	0	0	49.7500	0.31
0	0	0	50.0000	0.31
0	0	0	50.2500	0.31
0	0	0	50.5000	0.31
0	0	0	50.7500	0.32
0	0	0	51.0000	0.32
0	0	0	51.2500	0.33
0	0	0	51.5000	0.33
0	0	0	51.7500	0.33
0	0	0	52.0000	0.34
0	0	0	52.2500	0.34
0	0	0	52.5000	0.35
0	0	0	52.7500	0.36
0	0	0	53.0000	0.36
0	0	0	53.2500	0.37
0	0	0	53.5000	0.39
0	0	0	53.7500	0.39

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	54.0000	0.41
0	0	0	54.2500	0.42
0	0	0	54.5000	0.43
0	0	0	54.7500	0.45
0	0	0	55.0000	0.46
0	0	0	55.2500	0.48
0	0	0	55.4200	0.49
0	0	0	55.5800	0.50
0	0	0	55.7500	0.51
0	0	0	55.9200	0.52
0	0	0	56.0800	0.54
0	0	0	56.2500	0.55
0	0	0	56.4200	0.56
0	0	0	56.5800	0.58
0	0	0	56.7500	0.59
0	0	0	56.9200	0.60
0	0	0	57.0800	0.62
0	0	0	57.2500	0.63
0	0	0	57.4200	0.65
0	0	0	57.5800	0.68
0	0	0	57.7500	0.69
0	0	0	57.9200	0.71
0	0	0	58.0800	0.73
0	0	0	58.2500	0.76
0	0	0	58.4200	0.78
0	0	0	58.5800	0.80
0	0	0	58.7500	0.84
0	0	0	58.9200	0.87
0	0	0	59.0800	0.91
0	0	0	59.2500	0.97
0	0	0	59.4200	1.03
0	0	0	59.5800	1.16
0	0	0	59.7500	3.91
0	0	0	59.9200	8.95
0	0	0	60.0800	13.07
0	0	0	60.2500	12.66
0	0	0	60.4200	10.91
0	0	0	60.5800	9.40
0	0	0	60.7500	7.92
0	0	0	60.9200	6.70
0	0	0	61.0800	5.78
0	0	0	61.3300	4.65
0	0	0	61.5800	3.86
0	0	0	61.8300	3.27
0	0	0	62.0800	2.83
0	0	0	62.3300	2.43
0	0	0	62.5800	2.12
0	0	0	62.8300	1.87
0	0	0	63.0800	1.68

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	63.3300	1.52
0	0	0	63.5800	1.42
0	0	0	63.8300	1.31
0	0	0	64.0800	1.23
0	0	0	64.3300	1.10
0	0	0	64.5800	0.97
0	0	0	64.8300	0.86
0	0	0	65.0800	0.76
0	0	0	65.3300	0.67
0	0	0	65.5800	0.58
0	0	0	65.8300	0.60
0	0	0	66.0800	0.52
0	0	0	66.3300	0.43
0	0	0	66.5800	0.50
0	0	0	66.8300	0.40
0	0	0	67.0800	0.49
0	0	0	67.3300	0.35
0	0	0	67.5800	0.48
0	0	0	67.8300	0.56
0	0	0	68.0800	0.37
0	0	0	68.3300	0.42
0	0	0	68.5800	0.44
0	0	0	68.8300	0.10
0	0	0	69.0800	0.29
0	0	0	69.3300	0.38
0	0	0	69.5800	0.42
0	0	0	69.8300	0.05
0	0	0	70.0800	0.29
0	0	0	70.3300	0.39
0	0	0	70.5800	0.43
0	0	0	70.8300	0.03
0	0	0	71.0800	0.29
0	0	0	71.3300	0.40
0	0	0	71.5800	0.44
0	0	0	71.8300	0.45
0	0	0	72.0800	0.44
0	0	0	73.0800	-0.17
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.18
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.17
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	86.0800	0.00
0	0	0	87.0800	0.17
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.17
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.17
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.16
0	0	0	98.0800	0.01
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.16
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.15
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.13
0	0	0	109.0800	0.02
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.11
0	0	0	113.0800	0.04
0	0	0	114.0800	0.01
0	0	0	115.0800	0.00
0	0	0	116.0800	0.09
0	0	0	117.0800	0.04
0	0	0	118.0800	0.02
0	0	0	119.0800	0.01
0	0	0	120.0800	0.08
0	0	0	121.0800	0.05
0	0	0	122.0800	0.02
0	0	0	123.0800	0.09
0	0	0	124.0800	0.05
0	0	0	125.0800	0.03
0	0	0	126.0800	0.01
0	0	0	127.0800	0.09
0	0	0	128.0800	0.05
0	0	0	129.0800	0.03
0	0	0	130.0800	0.01
0	0	0	131.0800	0.09
0	0	0	132.0800	0.05
0	0	0	133.0800	0.02
0	0	0	134.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	135.0800	0.08
0	0	0	136.0800	0.05
0	0	0	137.0800	0.02
0	0	0	138.0800	0.01
0	0	0	139.0800	0.08
0	0	0	140.0800	0.05
0	0	0	141.0800	0.02
0	0	0	142.0800	0.01
0	0	0	143.0800	0.08
0	0	0	144.0800	0.05
0	0	0	145.0800	0.02
0	0	0	146.0800	0.01
0	0	0	147.0800	0.08
0	0	0	148.0800	0.05
0	0	0	149.0800	0.03
0	0	0	150.0800	0.01
0	0	0	151.0800	0.08
0	0	0	152.0800	0.05
0	0	0	153.0800	0.03
0	0	0	154.0800	0.09
0	0	0	155.0800	0.05
0	0	0	156.0800	0.03
0	0	0	157.0800	0.01
0	0	0	158.0800	0.08
0	0	0	159.0800	0.05
0	0	0	160.0800	0.03
0	0	0	161.0800	0.01
0	0	0	162.0800	0.08
0	0	0	163.0800	0.05
0	0	0	164.0800	0.03
0	0	0	165.0800	0.01
0	0	0	166.0800	0.08
0	0	0	167.0800	0.05
0	0	0	168.0800	0.03
0	0	0	169.0800	0.01
0	0	0	170.0800	0.08
0	0	0	171.0800	0.05
0	0	0	172.0800	0.03
0	0	0	173.0800	0.01
0	0	0	174.0800	0.08
0	0	0	175.0800	0.05
0	0	0	176.0800	0.03
0	0	0	177.0800	0.01
0	0	0	178.0800	0.08
0	0	0	179.0800	0.05
0	0	0	180.0800	0.03
0	0	0	181.0800	0.01
0	0	0	182.0800	0.08
0	0	0	183.0800	0.05

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	184.0800	0.03
0	0	0	185.0800	0.01
0	0	0	186.0800	0.08
0	0	0	187.0800	0.05
0	0	0	188.0800	0.03
0	0	0	189.0800	0.08
0	0	0	190.0800	0.05
0	0	0	191.0800	0.03
0	0	0	192.0800	0.02
0	0	0	193.0800	0.08
0	0	0	194.0800	0.05
0	0	0	195.0800	0.03
0	0	0	196.0800	0.01
0	0	0	197.0800	0.08
0	0	0	198.0800	0.04
0	0	0	199.0800	0.03
0	0	0	200.0800	0.01
0	0	0	201.0800	0.08
0	0	0	202.0800	0.04
0	0	0	203.0800	0.03
0	0	0	204.0800	0.01
0	0	0	205.0800	0.07
0	0	0	206.0800	0.04
0	0	0	207.0800	0.03
0	0	0	208.0800	0.01
0	0	0	209.0800	0.07
0	0	0	210.0800	0.04
0	0	0	211.0800	0.03
0	0	0	212.0800	0.01
0	0	0	213.0800	0.07
0	0	0	214.0800	0.04
0	0	0	215.0800	0.03
0	0	0	216.0800	0.01
0	0	0	217.0800	0.07
0	0	0	218.0800	0.04
0	0	0	219.0800	0.03
0	0	0	220.0800	0.01
0	0	0	221.0800	0.07
0	0	0	222.0800	0.04
0	0	0	223.0800	0.03
0	0	0	224.0800	0.08
0	0	0	225.0800	0.05
0	0	0	226.0800	0.03
0	0	0	227.0800	0.02
0	0	0	228.0800	0.07
0	0	0	229.0800	0.04
0	0	0	230.0800	0.03
0	0	0	231.0800	0.02
0	0	0	232.0800	0.07

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	233.0800	0.04
0	0	0	234.0800	0.03
0	0	0	235.0800	0.02
0	0	0	236.0800	0.07
0	0	0	237.0800	0.04
0	0	0	238.0800	0.03
0	0	0	239.0800	0.02
0	0	0	240.0800	0.07
0	0	0	241.0800	0.04
0	0	0	242.0800	0.03
0	0	0	243.0800	0.02
0	0	0	244.0800	0.07
0	0	0	245.0800	0.04
0	0	0	246.0800	0.03
0	0	0	247.0800	0.02
0	0	0	248.0800	0.07
0	0	0	249.0800	0.04
0	0	0	250.0800	0.03
0	0	0	251.0800	0.02
0	0	0	252.0800	0.07
0	0	0	253.0800	0.04
0	0	0	254.0800	0.03
0	0	0	255.0800	0.02
0	0	0	256.0800	0.07
0	0	0	257.0800	0.04
0	0	0	258.0800	0.03
0	0	0	259.0800	0.02
0	0	0	260.0800	0.07
0	0	0	261.0800	0.04
0	0	0	262.0800	0.03
0	0	0	263.0800	0.02
0	0	0	264.0800	0.06
0	0	0	265.0800	0.04
0	0	0	266.0800	0.03
0	0	0	267.0800	0.02
0	0	0	268.0800	0.06
0	0	0	269.0800	0.04
0	0	0	270.0800	0.03
0	0	0	271.0800	0.02
0	0	0	272.0800	0.06
0	0	0	273.0800	0.04
0	0	0	274.0800	0.03
0	0	0	275.0800	0.02
0	0	0	276.0800	0.06
0	0	0	277.0800	0.04
0	0	0	278.0800	0.03
0	0	0	279.0800	0.02
0	0	0	280.0800	0.06
0	0	0	281.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	282.0800	0.03
0	0	0	283.0800	0.02
0	0	0	284.0800	0.06
0	0	0	285.0800	0.04
0	0	0	286.0800	0.03
0	0	0	287.0800	0.02
0	0	0	288.0800	0.06
0	0	0	289.0800	0.04
0	0	0	290.0800	0.03
0	0	0	291.0800	0.02
0	0	0	292.0800	0.06
0	0	0	293.0800	0.04
0	0	0	294.0800	0.03
0	0	0	295.0800	0.02
0	0	0	296.0800	0.06
0	0	0	297.0800	0.04
0	0	0	298.0800	0.03
0	0	0	299.0800	0.02
0	0	0	300.0800	0.06
0	0	0	301.0800	0.04
0	0	0	302.0800	0.03
0	0	0	303.0800	0.02
0	0	0	304.0800	0.06
0	0	0	305.0800	0.04
0	0	0	306.0800	0.03
0	0	0	307.0800	0.02
0	0	0	308.0800	0.05
0	0	0	309.0800	0.04
0	0	0	310.0800	0.03
0	0	0	311.0800	0.02
0	0	0	312.0800	0.05
0	0	0	313.0800	0.04
0	0	0	314.0800	0.03
0	0	0	315.0800	0.02
0	0	0	316.0800	0.05
0	0	0	317.0800	0.04
0	0	0	318.0800	0.03
0	0	0	319.0800	0.02
0	0	0	320.0800	0.05
0	0	0	321.0800	0.04
0	0	0	322.0800	0.03
0	0	0	323.0800	0.02
0	0	0	324.0800	0.05
0	0	0	325.0800	0.04
0	0	0	326.0800	0.03
0	0	0	327.0800	0.02
0	0	0	328.0800	0.05
0	0	0	329.0800	0.04
0	0	0	330.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	331.0800	0.02
0	0	0	332.0800	0.05
0	0	0	333.0800	0.04
0	0	0	334.0800	0.03
0	0	0	335.0800	0.02
0	0	0	336.0800	0.05
0	0	0	337.0800	0.04
0	0	0	338.0800	0.03
0	0	0	339.0800	0.02
0	0	0	340.0800	0.04
0	0	0	341.0800	0.04
0	0	0	342.0800	0.03
0	0	0	343.0800	0.02
0	0	0	344.0800	0.02
0	0	0	345.0800	0.04
0	0	0	346.0800	0.03
0	0	0	347.0800	0.03
0	0	0	348.0800	0.02
0	0	0	349.0800	0.04
0	0	0	350.0800	0.03
0	0	0	351.0800	0.03
0	0	0	352.0800	0.02
0	0	0	353.0800	0.04
0	0	0	354.0800	0.03
0	0	0	355.0800	0.03
0	0	0	356.0800	0.02
0	0	0	357.0800	0.04
0	0	0	358.0800	0.03
0	0	0	359.0800	0.03
0	0	0	360.0000	0.03

Comment: Daniels Roadway Control Str# 11

Rating Curve: CS-12

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.02
0	0	0	11.0000	0.02
0	0	0	11.5000	0.03
0	0	0	12.0000	0.03
0	0	0	12.5000	0.03
0	0	0	13.0000	0.03
0	0	0	13.5000	0.03
0	0	0	14.0000	0.04
0	0	0	14.5000	0.04
0	0	0	15.0000	0.04
0	0	0	15.5000	0.04
0	0	0	16.0000	0.05
0	0	0	16.5000	0.05
0	0	0	17.0000	0.05
0	0	0	17.5000	0.05
0	0	0	18.0000	0.05
0	0	0	18.5000	0.06
0	0	0	19.0000	0.06
0	0	0	19.5000	0.06
0	0	0	20.0000	0.06
0	0	0	20.5000	0.07
0	0	0	21.0000	0.07
0	0	0	21.5000	0.07
0	0	0	22.0000	0.07
0	0	0	22.5000	0.07
0	0	0	23.0000	0.07
0	0	0	23.5000	0.08
0	0	0	24.0000	0.08
0	0	0	24.5000	0.08
0	0	0	25.0000	0.09
0	0	0	25.5000	0.09
0	0	0	26.0000	0.09
0	0	0	26.5000	0.10
0	0	0	27.0000	0.10
0	0	0	27.5000	0.10
0	0	0	28.0000	0.11

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	28.5000	0.11
0	0	0	29.0000	0.11
0	0	0	29.5000	0.12
0	0	0	30.0000	0.12
0	0	0	30.5000	0.12
0	0	0	31.0000	0.13
0	0	0	31.5000	0.13
0	0	0	32.0000	0.13
0	0	0	32.5000	0.13
0	0	0	33.0000	0.14
0	0	0	33.5000	0.14
0	0	0	34.0000	0.14
0	0	0	34.5000	0.14
0	0	0	35.0000	0.14
0	0	0	35.5000	0.15
0	0	0	36.0000	0.15
0	0	0	36.5000	0.15
0	0	0	37.0000	0.15
0	0	0	37.5000	0.15
0	0	0	38.0000	0.16
0	0	0	38.5000	0.16
0	0	0	39.0000	0.16
0	0	0	39.5000	0.16
0	0	0	40.0000	0.16
0	0	0	40.5000	0.16
0	0	0	41.0000	0.16
0	0	0	41.5000	0.16
0	0	0	42.0000	0.16
0	0	0	42.5000	0.17
0	0	0	43.0000	0.17
0	0	0	43.5000	0.17
0	0	0	44.0000	0.17
0	0	0	44.5000	0.17
0	0	0	45.0000	0.17
0	0	0	45.5000	0.17
0	0	0	46.0000	0.17
0	0	0	46.5000	0.17
0	0	0	47.0000	0.17
0	0	0	47.5000	0.17
0	0	0	48.0000	0.17
0	0	0	48.5000	0.17
0	0	0	48.7500	0.17
0	0	0	49.0000	0.17
0	0	0	49.2500	0.17
0	0	0	49.5000	0.18
0	0	0	49.7500	0.18
0	0	0	50.0000	0.18
0	0	0	50.2500	0.18
0	0	0	50.5000	0.18

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	50.7500	0.18
0	0	0	51.0000	0.18
0	0	0	51.2500	0.19
0	0	0	51.5000	0.19
0	0	0	51.7500	0.19
0	0	0	52.0000	0.19
0	0	0	52.2500	0.20
0	0	0	52.5000	0.20
0	0	0	52.7500	0.20
0	0	0	53.0000	0.21
0	0	0	53.2500	0.21
0	0	0	53.5000	0.22
0	0	0	53.7500	0.23
0	0	0	54.0000	0.23
0	0	0	54.2500	0.24
0	0	0	54.5000	0.25
0	0	0	54.7500	0.26
0	0	0	55.0000	0.26
0	0	0	55.2500	0.27
0	0	0	55.4200	0.28
0	0	0	55.5800	0.29
0	0	0	55.7500	0.29
0	0	0	55.9200	0.30
0	0	0	56.0800	0.31
0	0	0	56.2500	0.31
0	0	0	56.4200	0.32
0	0	0	56.5800	0.33
0	0	0	56.7500	0.34
0	0	0	56.9200	0.35
0	0	0	57.0800	0.36
0	0	0	57.2500	0.36
0	0	0	57.4200	0.37
0	0	0	57.5800	0.39
0	0	0	57.7500	0.40
0	0	0	57.9200	0.41
0	0	0	58.0800	0.42
0	0	0	58.2500	0.43
0	0	0	58.4200	0.45
0	0	0	58.5800	0.46
0	0	0	58.7500	0.48
0	0	0	58.9200	0.50
0	0	0	59.0800	0.52
0	0	0	59.2500	0.55
0	0	0	59.4200	0.59
0	0	0	59.5800	0.66
0	0	0	59.7500	2.24
0	0	0	59.9200	5.12
0	0	0	60.0800	7.47
0	0	0	60.2500	7.24

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	60.4200	6.24
0	0	0	60.5800	5.37
0	0	0	60.7500	4.53
0	0	0	60.9200	3.83
0	0	0	61.0800	3.30
0	0	0	61.3300	2.66
0	0	0	61.5800	2.21
0	0	0	61.8300	1.87
0	0	0	62.0800	1.62
0	0	0	62.3300	1.39
0	0	0	62.5800	1.21
0	0	0	62.8300	1.07
0	0	0	63.0800	0.96
0	0	0	63.3300	0.87
0	0	0	63.5800	0.81
0	0	0	63.8300	0.75
0	0	0	64.0800	0.70
0	0	0	64.3300	0.63
0	0	0	64.5800	0.55
0	0	0	64.8300	0.49
0	0	0	65.0800	0.44
0	0	0	65.3300	0.38
0	0	0	65.5800	0.33
0	0	0	65.8300	0.35
0	0	0	66.0800	0.30
0	0	0	66.3300	0.25
0	0	0	66.5800	0.29
0	0	0	66.8300	0.23
0	0	0	67.0800	0.28
0	0	0	67.3300	0.20
0	0	0	67.5800	0.27
0	0	0	67.8300	0.32
0	0	0	68.0800	0.21
0	0	0	68.3300	0.24
0	0	0	68.5800	0.25
0	0	0	68.8300	0.06
0	0	0	69.0800	0.17
0	0	0	69.3300	0.22
0	0	0	69.5800	0.24
0	0	0	69.8300	0.03
0	0	0	70.0800	0.16
0	0	0	70.3300	0.22
0	0	0	70.5800	0.25
0	0	0	70.8300	0.02
0	0	0	71.0800	0.17
0	0	0	71.3300	0.23
0	0	0	71.5800	0.25
0	0	0	71.8300	0.26
0	0	0	72.0800	0.25

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	73.0800	-0.10
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.10
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.10
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.10
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.10
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.10
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.09
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.09
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.08
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.08
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.06
0	0	0	113.0800	0.02
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.05
0	0	0	117.0800	0.02
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.05
0	0	0	121.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	122.0800	0.01
0	0	0	123.0800	0.05
0	0	0	124.0800	0.03
0	0	0	125.0800	0.02
0	0	0	126.0800	0.01
0	0	0	127.0800	0.05
0	0	0	128.0800	0.03
0	0	0	129.0800	0.01
0	0	0	130.0800	0.01
0	0	0	131.0800	0.05
0	0	0	132.0800	0.03
0	0	0	133.0800	0.01
0	0	0	134.0800	0.01
0	0	0	135.0800	0.05
0	0	0	136.0800	0.03
0	0	0	137.0800	0.01
0	0	0	138.0800	0.01
0	0	0	139.0800	0.05
0	0	0	140.0800	0.03
0	0	0	141.0800	0.01
0	0	0	142.0800	0.01
0	0	0	143.0800	0.05
0	0	0	144.0800	0.03
0	0	0	145.0800	0.01
0	0	0	146.0800	0.01
0	0	0	147.0800	0.05
0	0	0	148.0800	0.03
0	0	0	149.0800	0.01
0	0	0	150.0800	0.01
0	0	0	151.0800	0.05
0	0	0	152.0800	0.03
0	0	0	153.0800	0.01
0	0	0	154.0800	0.05
0	0	0	155.0800	0.03
0	0	0	156.0800	0.02
0	0	0	157.0800	0.01
0	0	0	158.0800	0.05
0	0	0	159.0800	0.03
0	0	0	160.0800	0.01
0	0	0	161.0800	0.01
0	0	0	162.0800	0.05
0	0	0	163.0800	0.03
0	0	0	164.0800	0.01
0	0	0	165.0800	0.01
0	0	0	166.0800	0.05
0	0	0	167.0800	0.03
0	0	0	168.0800	0.01
0	0	0	169.0800	0.01
0	0	0	170.0800	0.05

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	171.0800	0.03
0	0	0	172.0800	0.01
0	0	0	173.0800	0.01
0	0	0	174.0800	0.05
0	0	0	175.0800	0.03
0	0	0	176.0800	0.01
0	0	0	177.0800	0.01
0	0	0	178.0800	0.05
0	0	0	179.0800	0.03
0	0	0	180.0800	0.01
0	0	0	181.0800	0.01
0	0	0	182.0800	0.04
0	0	0	183.0800	0.03
0	0	0	184.0800	0.01
0	0	0	185.0800	0.01
0	0	0	186.0800	0.04
0	0	0	187.0800	0.03
0	0	0	188.0800	0.01
0	0	0	189.0800	0.05
0	0	0	190.0800	0.03
0	0	0	191.0800	0.02
0	0	0	192.0800	0.01
0	0	0	193.0800	0.04
0	0	0	194.0800	0.03
0	0	0	195.0800	0.01
0	0	0	196.0800	0.01
0	0	0	197.0800	0.04
0	0	0	198.0800	0.03
0	0	0	199.0800	0.01
0	0	0	200.0800	0.01
0	0	0	201.0800	0.04
0	0	0	202.0800	0.03
0	0	0	203.0800	0.01
0	0	0	204.0800	0.01
0	0	0	205.0800	0.04
0	0	0	206.0800	0.03
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.04
0	0	0	210.0800	0.03
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.04
0	0	0	214.0800	0.03
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.04
0	0	0	218.0800	0.03
0	0	0	219.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	220.0800	0.01
0	0	0	221.0800	0.04
0	0	0	222.0800	0.03
0	0	0	223.0800	0.01
0	0	0	224.0800	0.04
0	0	0	225.0800	0.03
0	0	0	226.0800	0.02
0	0	0	227.0800	0.01
0	0	0	228.0800	0.04
0	0	0	229.0800	0.03
0	0	0	230.0800	0.02
0	0	0	231.0800	0.01
0	0	0	232.0800	0.04
0	0	0	233.0800	0.03
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.04
0	0	0	237.0800	0.03
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.04
0	0	0	241.0800	0.03
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01
0	0	0	244.0800	0.04
0	0	0	245.0800	0.02
0	0	0	246.0800	0.02
0	0	0	247.0800	0.01
0	0	0	248.0800	0.04
0	0	0	249.0800	0.02
0	0	0	250.0800	0.02
0	0	0	251.0800	0.01
0	0	0	252.0800	0.04
0	0	0	253.0800	0.02
0	0	0	254.0800	0.02
0	0	0	255.0800	0.01
0	0	0	256.0800	0.04
0	0	0	257.0800	0.02
0	0	0	258.0800	0.02
0	0	0	259.0800	0.01
0	0	0	260.0800	0.04
0	0	0	261.0800	0.02
0	0	0	262.0800	0.02
0	0	0	263.0800	0.01
0	0	0	264.0800	0.04
0	0	0	265.0800	0.02
0	0	0	266.0800	0.02
0	0	0	267.0800	0.01
0	0	0	268.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	269.0800	0.02
0	0	0	270.0800	0.02
0	0	0	271.0800	0.01
0	0	0	272.0800	0.04
0	0	0	273.0800	0.02
0	0	0	274.0800	0.02
0	0	0	275.0800	0.01
0	0	0	276.0800	0.04
0	0	0	277.0800	0.02
0	0	0	278.0800	0.02
0	0	0	279.0800	0.01
0	0	0	280.0800	0.03
0	0	0	281.0800	0.02
0	0	0	282.0800	0.02
0	0	0	283.0800	0.01
0	0	0	284.0800	0.03
0	0	0	285.0800	0.02
0	0	0	286.0800	0.02
0	0	0	287.0800	0.01
0	0	0	288.0800	0.03
0	0	0	289.0800	0.02
0	0	0	290.0800	0.02
0	0	0	291.0800	0.01
0	0	0	292.0800	0.03
0	0	0	293.0800	0.02
0	0	0	294.0800	0.02
0	0	0	295.0800	0.01
0	0	0	296.0800	0.03
0	0	0	297.0800	0.02
0	0	0	298.0800	0.02
0	0	0	299.0800	0.01
0	0	0	300.0800	0.03
0	0	0	301.0800	0.02
0	0	0	302.0800	0.02
0	0	0	303.0800	0.01
0	0	0	304.0800	0.03
0	0	0	305.0800	0.02
0	0	0	306.0800	0.02
0	0	0	307.0800	0.01
0	0	0	308.0800	0.03
0	0	0	309.0800	0.02
0	0	0	310.0800	0.02
0	0	0	311.0800	0.01
0	0	0	312.0800	0.03
0	0	0	313.0800	0.02
0	0	0	314.0800	0.02
0	0	0	315.0800	0.01
0	0	0	316.0800	0.03
0	0	0	317.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	318.0800	0.02
0	0	0	319.0800	0.01
0	0	0	320.0800	0.03
0	0	0	321.0800	0.02
0	0	0	322.0800	0.02
0	0	0	323.0800	0.01
0	0	0	324.0800	0.03
0	0	0	325.0800	0.02
0	0	0	326.0800	0.02
0	0	0	327.0800	0.01
0	0	0	328.0800	0.03
0	0	0	329.0800	0.02
0	0	0	330.0800	0.02
0	0	0	331.0800	0.01
0	0	0	332.0800	0.03
0	0	0	333.0800	0.02
0	0	0	334.0800	0.02
0	0	0	335.0800	0.01
0	0	0	336.0800	0.03
0	0	0	337.0800	0.02
0	0	0	338.0800	0.02
0	0	0	339.0800	0.01
0	0	0	340.0800	0.03
0	0	0	341.0800	0.02
0	0	0	342.0800	0.02
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.02
0	0	0	346.0800	0.02
0	0	0	347.0800	0.02
0	0	0	348.0800	0.01
0	0	0	349.0800	0.02
0	0	0	350.0800	0.02
0	0	0	351.0800	0.02
0	0	0	352.0800	0.01
0	0	0	353.0800	0.02
0	0	0	354.0800	0.02
0	0	0	355.0800	0.02
0	0	0	356.0800	0.01
0	0	0	357.0800	0.02
0	0	0	358.0800	0.02
0	0	0	359.0800	0.02
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 12

Rating Curve: CS-13

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.02
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.02
0	0	0	11.0000	0.03
0	0	0	11.5000	0.03
0	0	0	12.0000	0.03
0	0	0	12.5000	0.03
0	0	0	13.0000	0.04
0	0	0	13.5000	0.04
0	0	0	14.0000	0.04
0	0	0	14.5000	0.04
0	0	0	15.0000	0.05
0	0	0	15.5000	0.05
0	0	0	16.0000	0.05
0	0	0	16.5000	0.05
0	0	0	17.0000	0.06
0	0	0	17.5000	0.06
0	0	0	18.0000	0.06
0	0	0	18.5000	0.06
0	0	0	19.0000	0.07
0	0	0	19.5000	0.07
0	0	0	20.0000	0.07
0	0	0	20.5000	0.07
0	0	0	21.0000	0.07
0	0	0	21.5000	0.08
0	0	0	22.0000	0.08

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	22.5000	0.08
0	0	0	23.0000	0.08
0	0	0	23.5000	0.09
0	0	0	24.0000	0.09
0	0	0	24.5000	0.09
0	0	0	25.0000	0.10
0	0	0	25.5000	0.10
0	0	0	26.0000	0.10
0	0	0	26.5000	0.11
0	0	0	27.0000	0.11
0	0	0	27.5000	0.12
0	0	0	28.0000	0.12
0	0	0	28.5000	0.12
0	0	0	29.0000	0.13
0	0	0	29.5000	0.13
0	0	0	30.0000	0.13
0	0	0	30.5000	0.14
0	0	0	31.0000	0.14
0	0	0	31.5000	0.14
0	0	0	32.0000	0.15
0	0	0	32.5000	0.15
0	0	0	33.0000	0.15
0	0	0	33.5000	0.15
0	0	0	34.0000	0.16
0	0	0	34.5000	0.16
0	0	0	35.0000	0.16
0	0	0	35.5000	0.16
0	0	0	36.0000	0.17
0	0	0	36.5000	0.17
0	0	0	37.0000	0.17
0	0	0	37.5000	0.17
0	0	0	38.0000	0.17
0	0	0	38.5000	0.18
0	0	0	39.0000	0.18
0	0	0	39.5000	0.18
0	0	0	40.0000	0.18
0	0	0	40.5000	0.18
0	0	0	41.0000	0.18
0	0	0	41.5000	0.18
0	0	0	42.0000	0.18
0	0	0	42.5000	0.19
0	0	0	43.0000	0.19
0	0	0	43.5000	0.19
0	0	0	44.0000	0.19
0	0	0	44.5000	0.19
0	0	0	45.0000	0.19
0	0	0	45.5000	0.19
0	0	0	46.0000	0.19
0	0	0	46.5000	0.19

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	47.0000	0.19
0	0	0	47.5000	0.19
0	0	0	48.0000	0.19
0	0	0	48.5000	0.19
0	0	0	48.7500	0.19
0	0	0	49.0000	0.19
0	0	0	49.2500	0.19
0	0	0	49.5000	0.20
0	0	0	49.7500	0.20
0	0	0	50.0000	0.20
0	0	0	50.2500	0.20
0	0	0	50.5000	0.20
0	0	0	50.7500	0.20
0	0	0	51.0000	0.21
0	0	0	51.2500	0.21
0	0	0	51.5000	0.21
0	0	0	51.7500	0.21
0	0	0	52.0000	0.21
0	0	0	52.2500	0.22
0	0	0	52.5000	0.22
0	0	0	52.7500	0.23
0	0	0	53.0000	0.23
0	0	0	53.2500	0.24
0	0	0	53.5000	0.25
0	0	0	53.7500	0.25
0	0	0	54.0000	0.26
0	0	0	54.2500	0.27
0	0	0	54.5000	0.27
0	0	0	54.7500	0.29
0	0	0	55.0000	0.30
0	0	0	55.2500	0.30
0	0	0	55.4200	0.31
0	0	0	55.5800	0.32
0	0	0	55.7500	0.33
0	0	0	55.9200	0.33
0	0	0	56.0800	0.34
0	0	0	56.2500	0.35
0	0	0	56.4200	0.36
0	0	0	56.5800	0.37
0	0	0	56.7500	0.38
0	0	0	56.9200	0.39
0	0	0	57.0800	0.40
0	0	0	57.2500	0.40
0	0	0	57.4200	0.42
0	0	0	57.5800	0.43
0	0	0	57.7500	0.44
0	0	0	57.9200	0.46
0	0	0	58.0800	0.47
0	0	0	58.2500	0.48

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	58.4200	0.50
0	0	0	58.5800	0.51
0	0	0	58.7500	0.53
0	0	0	58.9200	0.56
0	0	0	59.0800	0.58
0	0	0	59.2500	0.62
0	0	0	59.4200	0.66
0	0	0	59.5800	0.74
0	0	0	59.7500	2.49
0	0	0	59.9200	5.71
0	0	0	60.0800	8.33
0	0	0	60.2500	8.07
0	0	0	60.4200	6.95
0	0	0	60.5800	5.99
0	0	0	60.7500	5.05
0	0	0	60.9200	4.27
0	0	0	61.0800	3.68
0	0	0	61.3300	2.96
0	0	0	61.5800	2.46
0	0	0	61.8300	2.09
0	0	0	62.0800	1.80
0	0	0	62.3300	1.55
0	0	0	62.5800	1.35
0	0	0	62.8300	1.19
0	0	0	63.0800	1.07
0	0	0	63.3300	0.97
0	0	0	63.5800	0.90
0	0	0	63.8300	0.83
0	0	0	64.0800	0.79
0	0	0	64.3300	0.70
0	0	0	64.5800	0.62
0	0	0	64.8300	0.55
0	0	0	65.0800	0.49
0	0	0	65.3300	0.43
0	0	0	65.5800	0.37
0	0	0	65.8300	0.38
0	0	0	66.0800	0.33
0	0	0	66.3300	0.27
0	0	0	66.5800	0.32
0	0	0	66.8300	0.25
0	0	0	67.0800	0.31
0	0	0	67.3300	0.23
0	0	0	67.5800	0.31
0	0	0	67.8300	0.36
0	0	0	68.0800	0.23
0	0	0	68.3300	0.27
0	0	0	68.5800	0.28
0	0	0	68.8300	0.06
0	0	0	69.0800	0.19

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	69.3300	0.24
0	0	0	69.5800	0.27
0	0	0	69.8300	0.03
0	0	0	70.0800	0.18
0	0	0	70.3300	0.25
0	0	0	70.5800	0.27
0	0	0	70.8300	0.02
0	0	0	71.0800	0.19
0	0	0	71.3300	0.25
0	0	0	71.5800	0.28
0	0	0	71.8300	0.29
0	0	0	72.0800	0.28
0	0	0	73.0800	-0.11
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.11
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.11
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.11
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.11
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.11
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.10
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.10
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.09
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.08
0	0	0	109.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.07
0	0	0	113.0800	0.02
0	0	0	114.0800	0.01
0	0	0	115.0800	0.00
0	0	0	116.0800	0.06
0	0	0	117.0800	0.03
0	0	0	118.0800	0.01
0	0	0	119.0800	0.01
0	0	0	120.0800	0.05
0	0	0	121.0800	0.03
0	0	0	122.0800	0.02
0	0	0	123.0800	0.06
0	0	0	124.0800	0.03
0	0	0	125.0800	0.02
0	0	0	126.0800	0.01
0	0	0	127.0800	0.06
0	0	0	128.0800	0.03
0	0	0	129.0800	0.02
0	0	0	130.0800	0.01
0	0	0	131.0800	0.05
0	0	0	132.0800	0.03
0	0	0	133.0800	0.02
0	0	0	134.0800	0.01
0	0	0	135.0800	0.05
0	0	0	136.0800	0.03
0	0	0	137.0800	0.02
0	0	0	138.0800	0.01
0	0	0	139.0800	0.05
0	0	0	140.0800	0.03
0	0	0	141.0800	0.02
0	0	0	142.0800	0.01
0	0	0	143.0800	0.05
0	0	0	144.0800	0.03
0	0	0	145.0800	0.02
0	0	0	146.0800	0.01
0	0	0	147.0800	0.05
0	0	0	148.0800	0.03
0	0	0	149.0800	0.02
0	0	0	150.0800	0.01
0	0	0	151.0800	0.05
0	0	0	152.0800	0.03
0	0	0	153.0800	0.02
0	0	0	154.0800	0.06
0	0	0	155.0800	0.03
0	0	0	156.0800	0.02
0	0	0	157.0800	0.01
0	0	0	158.0800	0.05

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	159.0800	0.03
0	0	0	160.0800	0.02
0	0	0	161.0800	0.01
0	0	0	162.0800	0.05
0	0	0	163.0800	0.03
0	0	0	164.0800	0.02
0	0	0	165.0800	0.01
0	0	0	166.0800	0.05
0	0	0	167.0800	0.03
0	0	0	168.0800	0.02
0	0	0	169.0800	0.01
0	0	0	170.0800	0.05
0	0	0	171.0800	0.03
0	0	0	172.0800	0.02
0	0	0	173.0800	0.01
0	0	0	174.0800	0.05
0	0	0	175.0800	0.03
0	0	0	176.0800	0.02
0	0	0	177.0800	0.01
0	0	0	178.0800	0.05
0	0	0	179.0800	0.03
0	0	0	180.0800	0.02
0	0	0	181.0800	0.01
0	0	0	182.0800	0.05
0	0	0	183.0800	0.03
0	0	0	184.0800	0.02
0	0	0	185.0800	0.01
0	0	0	186.0800	0.05
0	0	0	187.0800	0.03
0	0	0	188.0800	0.02
0	0	0	189.0800	0.05
0	0	0	190.0800	0.03
0	0	0	191.0800	0.02
0	0	0	192.0800	0.01
0	0	0	193.0800	0.05
0	0	0	194.0800	0.03
0	0	0	195.0800	0.02
0	0	0	196.0800	0.01
0	0	0	197.0800	0.05
0	0	0	198.0800	0.03
0	0	0	199.0800	0.02
0	0	0	200.0800	0.01
0	0	0	201.0800	0.05
0	0	0	202.0800	0.03
0	0	0	203.0800	0.02
0	0	0	204.0800	0.01
0	0	0	205.0800	0.05
0	0	0	206.0800	0.03
0	0	0	207.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	208.0800	0.01
0	0	0	209.0800	0.05
0	0	0	210.0800	0.03
0	0	0	211.0800	0.02
0	0	0	212.0800	0.01
0	0	0	213.0800	0.05
0	0	0	214.0800	0.03
0	0	0	215.0800	0.02
0	0	0	216.0800	0.01
0	0	0	217.0800	0.05
0	0	0	218.0800	0.03
0	0	0	219.0800	0.02
0	0	0	220.0800	0.01
0	0	0	221.0800	0.05
0	0	0	222.0800	0.03
0	0	0	223.0800	0.02
0	0	0	224.0800	0.05
0	0	0	225.0800	0.03
0	0	0	226.0800	0.02
0	0	0	227.0800	0.01
0	0	0	228.0800	0.05
0	0	0	229.0800	0.03
0	0	0	230.0800	0.02
0	0	0	231.0800	0.01
0	0	0	232.0800	0.04
0	0	0	233.0800	0.03
0	0	0	234.0800	0.02
0	0	0	235.0800	0.01
0	0	0	236.0800	0.04
0	0	0	237.0800	0.03
0	0	0	238.0800	0.02
0	0	0	239.0800	0.01
0	0	0	240.0800	0.04
0	0	0	241.0800	0.03
0	0	0	242.0800	0.02
0	0	0	243.0800	0.01
0	0	0	244.0800	0.04
0	0	0	245.0800	0.03
0	0	0	246.0800	0.02
0	0	0	247.0800	0.01
0	0	0	248.0800	0.04
0	0	0	249.0800	0.03
0	0	0	250.0800	0.02
0	0	0	251.0800	0.01
0	0	0	252.0800	0.04
0	0	0	253.0800	0.03
0	0	0	254.0800	0.02
0	0	0	255.0800	0.01
0	0	0	256.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	257.0800	0.03
0	0	0	258.0800	0.02
0	0	0	259.0800	0.01
0	0	0	260.0800	0.04
0	0	0	261.0800	0.03
0	0	0	262.0800	0.02
0	0	0	263.0800	0.01
0	0	0	264.0800	0.04
0	0	0	265.0800	0.03
0	0	0	266.0800	0.02
0	0	0	267.0800	0.01
0	0	0	268.0800	0.04
0	0	0	269.0800	0.03
0	0	0	270.0800	0.02
0	0	0	271.0800	0.01
0	0	0	272.0800	0.04
0	0	0	273.0800	0.03
0	0	0	274.0800	0.02
0	0	0	275.0800	0.01
0	0	0	276.0800	0.04
0	0	0	277.0800	0.03
0	0	0	278.0800	0.02
0	0	0	279.0800	0.01
0	0	0	280.0800	0.04
0	0	0	281.0800	0.03
0	0	0	282.0800	0.02
0	0	0	283.0800	0.01
0	0	0	284.0800	0.04
0	0	0	285.0800	0.03
0	0	0	286.0800	0.02
0	0	0	287.0800	0.01
0	0	0	288.0800	0.04
0	0	0	289.0800	0.03
0	0	0	290.0800	0.02
0	0	0	291.0800	0.01
0	0	0	292.0800	0.04
0	0	0	293.0800	0.03
0	0	0	294.0800	0.02
0	0	0	295.0800	0.01
0	0	0	296.0800	0.04
0	0	0	297.0800	0.03
0	0	0	298.0800	0.02
0	0	0	299.0800	0.01
0	0	0	300.0800	0.04
0	0	0	301.0800	0.03
0	0	0	302.0800	0.02
0	0	0	303.0800	0.01
0	0	0	304.0800	0.04
0	0	0	305.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	306.0800	0.02
0	0	0	307.0800	0.01
0	0	0	308.0800	0.03
0	0	0	309.0800	0.03
0	0	0	310.0800	0.02
0	0	0	311.0800	0.01
0	0	0	312.0800	0.03
0	0	0	313.0800	0.03
0	0	0	314.0800	0.02
0	0	0	315.0800	0.01
0	0	0	316.0800	0.03
0	0	0	317.0800	0.03
0	0	0	318.0800	0.02
0	0	0	319.0800	0.01
0	0	0	320.0800	0.03
0	0	0	321.0800	0.03
0	0	0	322.0800	0.02
0	0	0	323.0800	0.01
0	0	0	324.0800	0.03
0	0	0	325.0800	0.02
0	0	0	326.0800	0.02
0	0	0	327.0800	0.01
0	0	0	328.0800	0.03
0	0	0	329.0800	0.02
0	0	0	330.0800	0.02
0	0	0	331.0800	0.01
0	0	0	332.0800	0.03
0	0	0	333.0800	0.02
0	0	0	334.0800	0.02
0	0	0	335.0800	0.01
0	0	0	336.0800	0.03
0	0	0	337.0800	0.02
0	0	0	338.0800	0.02
0	0	0	339.0800	0.01
0	0	0	340.0800	0.03
0	0	0	341.0800	0.02
0	0	0	342.0800	0.02
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.03
0	0	0	346.0800	0.02
0	0	0	347.0800	0.02
0	0	0	348.0800	0.01
0	0	0	349.0800	0.03
0	0	0	350.0800	0.02
0	0	0	351.0800	0.02
0	0	0	352.0800	0.01
0	0	0	353.0800	0.03
0	0	0	354.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	355.0800	0.02
0	0	0	356.0800	0.02
0	0	0	357.0800	0.02
0	0	0	358.0800	0.02
0	0	0	359.0800	0.02
0	0	0	360.0000	0.02

Comment: Daniels Roadway Control Str# 13

Rating Curve: CS-14

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.02
0	0	0	11.0000	0.02
0	0	0	11.5000	0.02
0	0	0	12.0000	0.02
0	0	0	12.5000	0.03
0	0	0	13.0000	0.03
0	0	0	13.5000	0.03
0	0	0	14.0000	0.03
0	0	0	14.5000	0.04
0	0	0	15.0000	0.04
0	0	0	15.5000	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	16.0000	0.04
0	0	0	16.5000	0.04
0	0	0	17.0000	0.05
0	0	0	17.5000	0.05
0	0	0	18.0000	0.05
0	0	0	18.5000	0.05
0	0	0	19.0000	0.05
0	0	0	19.5000	0.06
0	0	0	20.0000	0.06
0	0	0	20.5000	0.06
0	0	0	21.0000	0.06
0	0	0	21.5000	0.06
0	0	0	22.0000	0.06
0	0	0	22.5000	0.07
0	0	0	23.0000	0.07
0	0	0	23.5000	0.07
0	0	0	24.0000	0.07
0	0	0	24.5000	0.07
0	0	0	25.0000	0.08
0	0	0	25.5000	0.08
0	0	0	26.0000	0.08
0	0	0	26.5000	0.09
0	0	0	27.0000	0.09
0	0	0	27.5000	0.09
0	0	0	28.0000	0.10
0	0	0	28.5000	0.10
0	0	0	29.0000	0.10
0	0	0	29.5000	0.11
0	0	0	30.0000	0.11
0	0	0	30.5000	0.11
0	0	0	31.0000	0.11
0	0	0	31.5000	0.12
0	0	0	32.0000	0.12
0	0	0	32.5000	0.12
0	0	0	33.0000	0.12
0	0	0	33.5000	0.13
0	0	0	34.0000	0.13
0	0	0	34.5000	0.13
0	0	0	35.0000	0.13
0	0	0	35.5000	0.13
0	0	0	36.0000	0.14
0	0	0	36.5000	0.14
0	0	0	37.0000	0.14
0	0	0	37.5000	0.14
0	0	0	38.0000	0.14
0	0	0	38.5000	0.14
0	0	0	39.0000	0.14
0	0	0	39.5000	0.15
0	0	0	40.0000	0.15

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	40.5000	0.15
0	0	0	41.0000	0.15
0	0	0	41.5000	0.15
0	0	0	42.0000	0.15
0	0	0	42.5000	0.15
0	0	0	43.0000	0.15
0	0	0	43.5000	0.15
0	0	0	44.0000	0.15
0	0	0	44.5000	0.15
0	0	0	45.0000	0.15
0	0	0	45.5000	0.15
0	0	0	46.0000	0.15
0	0	0	46.5000	0.16
0	0	0	47.0000	0.16
0	0	0	47.5000	0.16
0	0	0	48.0000	0.16
0	0	0	48.5000	0.16
0	0	0	48.7500	0.16
0	0	0	49.0000	0.16
0	0	0	49.2500	0.16
0	0	0	49.5000	0.16
0	0	0	49.7500	0.16
0	0	0	50.0000	0.16
0	0	0	50.2500	0.16
0	0	0	50.5000	0.16
0	0	0	50.7500	0.17
0	0	0	51.0000	0.17
0	0	0	51.2500	0.17
0	0	0	51.5000	0.17
0	0	0	51.7500	0.17
0	0	0	52.0000	0.17
0	0	0	52.2500	0.18
0	0	0	52.5000	0.18
0	0	0	52.7500	0.18
0	0	0	53.0000	0.19
0	0	0	53.2500	0.19
0	0	0	53.5000	0.20
0	0	0	53.7500	0.20
0	0	0	54.0000	0.21
0	0	0	54.2500	0.22
0	0	0	54.5000	0.22
0	0	0	54.7500	0.23
0	0	0	55.0000	0.24
0	0	0	55.2500	0.25
0	0	0	55.4200	0.25
0	0	0	55.5800	0.26
0	0	0	55.7500	0.27
0	0	0	55.9200	0.27
0	0	0	56.0800	0.28

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	56.2500	0.28
0	0	0	56.4200	0.29
0	0	0	56.5800	0.30
0	0	0	56.7500	0.31
0	0	0	56.9200	0.31
0	0	0	57.0800	0.32
0	0	0	57.2500	0.33
0	0	0	57.4200	0.34
0	0	0	57.5800	0.35
0	0	0	57.7500	0.36
0	0	0	57.9200	0.37
0	0	0	58.0800	0.38
0	0	0	58.2500	0.39
0	0	0	58.4200	0.41
0	0	0	58.5800	0.42
0	0	0	58.7500	0.44
0	0	0	58.9200	0.45
0	0	0	59.0800	0.47
0	0	0	59.2500	0.50
0	0	0	59.4200	0.54
0	0	0	59.5800	0.60
0	0	0	59.7500	2.03
0	0	0	59.9200	4.66
0	0	0	60.0800	6.80
0	0	0	60.2500	6.58
0	0	0	60.4200	5.67
0	0	0	60.5800	4.89
0	0	0	60.7500	4.12
0	0	0	60.9200	3.48
0	0	0	61.0800	3.00
0	0	0	61.3300	2.42
0	0	0	61.5800	2.01
0	0	0	61.8300	1.70
0	0	0	62.0800	1.47
0	0	0	62.3300	1.27
0	0	0	62.5800	1.10
0	0	0	62.8300	0.97
0	0	0	63.0800	0.88
0	0	0	63.3300	0.79
0	0	0	63.5800	0.74
0	0	0	63.8300	0.68
0	0	0	64.0800	0.64
0	0	0	64.3300	0.57
0	0	0	64.5800	0.50
0	0	0	64.8300	0.45
0	0	0	65.0800	0.40
0	0	0	65.3300	0.35
0	0	0	65.5800	0.30
0	0	0	65.8300	0.31

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	66.0800	0.27
0	0	0	66.3300	0.22
0	0	0	66.5800	0.26
0	0	0	66.8300	0.21
0	0	0	67.0800	0.25
0	0	0	67.3300	0.18
0	0	0	67.5800	0.25
0	0	0	67.8300	0.29
0	0	0	68.0800	0.19
0	0	0	68.3300	0.22
0	0	0	68.5800	0.23
0	0	0	68.8300	0.05
0	0	0	69.0800	0.15
0	0	0	69.3300	0.20
0	0	0	69.5800	0.22
0	0	0	69.8300	0.03
0	0	0	70.0800	0.15
0	0	0	70.3300	0.20
0	0	0	70.5800	0.22
0	0	0	70.8300	0.02
0	0	0	71.0800	0.15
0	0	0	71.3300	0.21
0	0	0	71.5800	0.23
0	0	0	71.8300	0.24
0	0	0	72.0800	0.23
0	0	0	73.0800	-0.09
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.09
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.09
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.09
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.09
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.09
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	97.0800	0.08
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.08
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.08
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.07
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.06
0	0	0	113.0800	0.02
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.05
0	0	0	117.0800	0.02
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.04
0	0	0	121.0800	0.02
0	0	0	122.0800	0.01
0	0	0	123.0800	0.05
0	0	0	124.0800	0.03
0	0	0	125.0800	0.01
0	0	0	126.0800	0.01
0	0	0	127.0800	0.04
0	0	0	128.0800	0.02
0	0	0	129.0800	0.01
0	0	0	130.0800	0.01
0	0	0	131.0800	0.04
0	0	0	132.0800	0.02
0	0	0	133.0800	0.01
0	0	0	134.0800	0.01
0	0	0	135.0800	0.04
0	0	0	136.0800	0.02
0	0	0	137.0800	0.01
0	0	0	138.0800	0.01
0	0	0	139.0800	0.04
0	0	0	140.0800	0.02
0	0	0	141.0800	0.01
0	0	0	142.0800	0.01
0	0	0	143.0800	0.04
0	0	0	144.0800	0.02
0	0	0	145.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	146.0800	0.01
0	0	0	147.0800	0.04
0	0	0	148.0800	0.02
0	0	0	149.0800	0.01
0	0	0	150.0800	0.01
0	0	0	151.0800	0.04
0	0	0	152.0800	0.02
0	0	0	153.0800	0.01
0	0	0	154.0800	0.05
0	0	0	155.0800	0.03
0	0	0	156.0800	0.01
0	0	0	157.0800	0.01
0	0	0	158.0800	0.04
0	0	0	159.0800	0.02
0	0	0	160.0800	0.01
0	0	0	161.0800	0.01
0	0	0	162.0800	0.04
0	0	0	163.0800	0.02
0	0	0	164.0800	0.01
0	0	0	165.0800	0.01
0	0	0	166.0800	0.04
0	0	0	167.0800	0.02
0	0	0	168.0800	0.01
0	0	0	169.0800	0.01
0	0	0	170.0800	0.04
0	0	0	171.0800	0.02
0	0	0	172.0800	0.01
0	0	0	173.0800	0.01
0	0	0	174.0800	0.04
0	0	0	175.0800	0.02
0	0	0	176.0800	0.01
0	0	0	177.0800	0.01
0	0	0	178.0800	0.04
0	0	0	179.0800	0.02
0	0	0	180.0800	0.01
0	0	0	181.0800	0.01
0	0	0	182.0800	0.04
0	0	0	183.0800	0.02
0	0	0	184.0800	0.01
0	0	0	185.0800	0.01
0	0	0	186.0800	0.04
0	0	0	187.0800	0.02
0	0	0	188.0800	0.01
0	0	0	189.0800	0.04
0	0	0	190.0800	0.03
0	0	0	191.0800	0.01
0	0	0	192.0800	0.01
0	0	0	193.0800	0.04
0	0	0	194.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	195.0800	0.01
0	0	0	196.0800	0.01
0	0	0	197.0800	0.04
0	0	0	198.0800	0.02
0	0	0	199.0800	0.01
0	0	0	200.0800	0.01
0	0	0	201.0800	0.04
0	0	0	202.0800	0.02
0	0	0	203.0800	0.01
0	0	0	204.0800	0.01
0	0	0	205.0800	0.04
0	0	0	206.0800	0.02
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.04
0	0	0	210.0800	0.02
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.04
0	0	0	214.0800	0.02
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.04
0	0	0	218.0800	0.02
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01
0	0	0	221.0800	0.04
0	0	0	222.0800	0.02
0	0	0	223.0800	0.01
0	0	0	224.0800	0.04
0	0	0	225.0800	0.02
0	0	0	226.0800	0.01
0	0	0	227.0800	0.01
0	0	0	228.0800	0.04
0	0	0	229.0800	0.02
0	0	0	230.0800	0.01
0	0	0	231.0800	0.01
0	0	0	232.0800	0.04
0	0	0	233.0800	0.02
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.04
0	0	0	237.0800	0.02
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.04
0	0	0	241.0800	0.02
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	244.0800	0.04
0	0	0	245.0800	0.02
0	0	0	246.0800	0.01
0	0	0	247.0800	0.01
0	0	0	248.0800	0.04
0	0	0	249.0800	0.02
0	0	0	250.0800	0.01
0	0	0	251.0800	0.01
0	0	0	252.0800	0.03
0	0	0	253.0800	0.02
0	0	0	254.0800	0.01
0	0	0	255.0800	0.01
0	0	0	256.0800	0.03
0	0	0	257.0800	0.02
0	0	0	258.0800	0.01
0	0	0	259.0800	0.01
0	0	0	260.0800	0.03
0	0	0	261.0800	0.02
0	0	0	262.0800	0.01
0	0	0	263.0800	0.01
0	0	0	264.0800	0.03
0	0	0	265.0800	0.02
0	0	0	266.0800	0.01
0	0	0	267.0800	0.01
0	0	0	268.0800	0.03
0	0	0	269.0800	0.02
0	0	0	270.0800	0.01
0	0	0	271.0800	0.01
0	0	0	272.0800	0.03
0	0	0	273.0800	0.02
0	0	0	274.0800	0.01
0	0	0	275.0800	0.01
0	0	0	276.0800	0.03
0	0	0	277.0800	0.02
0	0	0	278.0800	0.01
0	0	0	279.0800	0.01
0	0	0	280.0800	0.03
0	0	0	281.0800	0.02
0	0	0	282.0800	0.01
0	0	0	283.0800	0.01
0	0	0	284.0800	0.03
0	0	0	285.0800	0.02
0	0	0	286.0800	0.01
0	0	0	287.0800	0.01
0	0	0	288.0800	0.03
0	0	0	289.0800	0.02
0	0	0	290.0800	0.01
0	0	0	291.0800	0.01
0	0	0	292.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	293.0800	0.02
0	0	0	294.0800	0.01
0	0	0	295.0800	0.01
0	0	0	296.0800	0.03
0	0	0	297.0800	0.02
0	0	0	298.0800	0.01
0	0	0	299.0800	0.01
0	0	0	300.0800	0.03
0	0	0	301.0800	0.02
0	0	0	302.0800	0.01
0	0	0	303.0800	0.01
0	0	0	304.0800	0.03
0	0	0	305.0800	0.02
0	0	0	306.0800	0.01
0	0	0	307.0800	0.01
0	0	0	308.0800	0.03
0	0	0	309.0800	0.02
0	0	0	310.0800	0.01
0	0	0	311.0800	0.01
0	0	0	312.0800	0.03
0	0	0	313.0800	0.02
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.03
0	0	0	317.0800	0.02
0	0	0	318.0800	0.02
0	0	0	319.0800	0.01
0	0	0	320.0800	0.03
0	0	0	321.0800	0.02
0	0	0	322.0800	0.02
0	0	0	323.0800	0.01
0	0	0	324.0800	0.03
0	0	0	325.0800	0.02
0	0	0	326.0800	0.02
0	0	0	327.0800	0.01
0	0	0	328.0800	0.03
0	0	0	329.0800	0.02
0	0	0	330.0800	0.02
0	0	0	331.0800	0.01
0	0	0	332.0800	0.02
0	0	0	333.0800	0.02
0	0	0	334.0800	0.02
0	0	0	335.0800	0.01
0	0	0	336.0800	0.02
0	0	0	337.0800	0.02
0	0	0	338.0800	0.02
0	0	0	339.0800	0.01
0	0	0	340.0800	0.02
0	0	0	341.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	342.0800	0.02
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.02
0	0	0	346.0800	0.02
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.02
0	0	0	350.0800	0.02
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.02
0	0	0	354.0800	0.02
0	0	0	355.0800	0.02
0	0	0	356.0800	0.01
0	0	0	357.0800	0.02
0	0	0	358.0800	0.02
0	0	0	359.0800	0.02
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 14

Rating Curve: CS-15

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.02
0	0	0	11.0000	0.02
0	0	0	11.5000	0.02
0	0	0	12.0000	0.02
0	0	0	12.5000	0.03
0	0	0	13.0000	0.03
0	0	0	13.5000	0.03
0	0	0	14.0000	0.03
0	0	0	14.5000	0.04
0	0	0	15.0000	0.04
0	0	0	15.5000	0.04
0	0	0	16.0000	0.04
0	0	0	16.5000	0.04
0	0	0	17.0000	0.05
0	0	0	17.5000	0.05
0	0	0	18.0000	0.05
0	0	0	18.5000	0.05
0	0	0	19.0000	0.05
0	0	0	19.5000	0.06
0	0	0	20.0000	0.06
0	0	0	20.5000	0.06
0	0	0	21.0000	0.06
0	0	0	21.5000	0.06
0	0	0	22.0000	0.06
0	0	0	22.5000	0.07
0	0	0	23.0000	0.07
0	0	0	23.5000	0.07
0	0	0	24.0000	0.07
0	0	0	24.5000	0.07
0	0	0	25.0000	0.08
0	0	0	25.5000	0.08
0	0	0	26.0000	0.08
0	0	0	26.5000	0.09
0	0	0	27.0000	0.09
0	0	0	27.5000	0.09
0	0	0	28.0000	0.10
0	0	0	28.5000	0.10
0	0	0	29.0000	0.10
0	0	0	29.5000	0.11
0	0	0	30.0000	0.11
0	0	0	30.5000	0.11
0	0	0	31.0000	0.11
0	0	0	31.5000	0.12
0	0	0	32.0000	0.12
0	0	0	32.5000	0.12
0	0	0	33.0000	0.12
0	0	0	33.5000	0.13

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	34.0000	0.13
0	0	0	34.5000	0.13
0	0	0	35.0000	0.13
0	0	0	35.5000	0.13
0	0	0	36.0000	0.14
0	0	0	36.5000	0.14
0	0	0	37.0000	0.14
0	0	0	37.5000	0.14
0	0	0	38.0000	0.14
0	0	0	38.5000	0.14
0	0	0	39.0000	0.14
0	0	0	39.5000	0.15
0	0	0	40.0000	0.15
0	0	0	40.5000	0.15
0	0	0	41.0000	0.15
0	0	0	41.5000	0.15
0	0	0	42.0000	0.15
0	0	0	42.5000	0.15
0	0	0	43.0000	0.15
0	0	0	43.5000	0.15
0	0	0	44.0000	0.15
0	0	0	44.5000	0.15
0	0	0	45.0000	0.15
0	0	0	45.5000	0.15
0	0	0	46.0000	0.15
0	0	0	46.5000	0.16
0	0	0	47.0000	0.16
0	0	0	47.5000	0.16
0	0	0	48.0000	0.16
0	0	0	48.5000	0.16
0	0	0	48.7500	0.16
0	0	0	49.0000	0.16
0	0	0	49.2500	0.16
0	0	0	49.5000	0.16
0	0	0	49.7500	0.16
0	0	0	50.0000	0.16
0	0	0	50.2500	0.16
0	0	0	50.5000	0.16
0	0	0	50.7500	0.17
0	0	0	51.0000	0.17
0	0	0	51.2500	0.17
0	0	0	51.5000	0.17
0	0	0	51.7500	0.17
0	0	0	52.0000	0.17
0	0	0	52.2500	0.18
0	0	0	52.5000	0.18
0	0	0	52.7500	0.18
0	0	0	53.0000	0.19
0	0	0	53.2500	0.19

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	53.5000	0.20
0	0	0	53.7500	0.20
0	0	0	54.0000	0.21
0	0	0	54.2500	0.22
0	0	0	54.5000	0.22
0	0	0	54.7500	0.23
0	0	0	55.0000	0.24
0	0	0	55.2500	0.25
0	0	0	55.4200	0.25
0	0	0	55.5800	0.26
0	0	0	55.7500	0.27
0	0	0	55.9200	0.27
0	0	0	56.0800	0.28
0	0	0	56.2500	0.28
0	0	0	56.4200	0.29
0	0	0	56.5800	0.30
0	0	0	56.7500	0.31
0	0	0	56.9200	0.31
0	0	0	57.0800	0.32
0	0	0	57.2500	0.33
0	0	0	57.4200	0.34
0	0	0	57.5800	0.35
0	0	0	57.7500	0.36
0	0	0	57.9200	0.37
0	0	0	58.0800	0.38
0	0	0	58.2500	0.39
0	0	0	58.4200	0.41
0	0	0	58.5800	0.42
0	0	0	58.7500	0.44
0	0	0	58.9200	0.45
0	0	0	59.0800	0.47
0	0	0	59.2500	0.50
0	0	0	59.4200	0.54
0	0	0	59.5800	0.60
0	0	0	59.7500	2.03
0	0	0	59.9200	4.66
0	0	0	60.0800	6.80
0	0	0	60.2500	6.58
0	0	0	60.4200	5.67
0	0	0	60.5800	4.89
0	0	0	60.7500	4.12
0	0	0	60.9200	3.48
0	0	0	61.0800	3.00
0	0	0	61.3300	2.42
0	0	0	61.5800	2.01
0	0	0	61.8300	1.70
0	0	0	62.0800	1.47
0	0	0	62.3300	1.27
0	0	0	62.5800	1.10

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	62.8300	0.97
0	0	0	63.0800	0.88
0	0	0	63.3300	0.79
0	0	0	63.5800	0.74
0	0	0	63.8300	0.68
0	0	0	64.0800	0.64
0	0	0	64.3300	0.57
0	0	0	64.5800	0.50
0	0	0	64.8300	0.45
0	0	0	65.0800	0.40
0	0	0	65.3300	0.35
0	0	0	65.5800	0.30
0	0	0	65.8300	0.31
0	0	0	66.0800	0.27
0	0	0	66.3300	0.22
0	0	0	66.5800	0.26
0	0	0	66.8300	0.21
0	0	0	67.0800	0.25
0	0	0	67.3300	0.18
0	0	0	67.5800	0.25
0	0	0	67.8300	0.29
0	0	0	68.0800	0.19
0	0	0	68.3300	0.22
0	0	0	68.5800	0.23
0	0	0	68.8300	0.05
0	0	0	69.0800	0.15
0	0	0	69.3300	0.20
0	0	0	69.5800	0.22
0	0	0	69.8300	0.03
0	0	0	70.0800	0.15
0	0	0	70.3300	0.20
0	0	0	70.5800	0.22
0	0	0	70.8300	0.02
0	0	0	71.0800	0.15
0	0	0	71.3300	0.21
0	0	0	71.5800	0.23
0	0	0	71.8300	0.24
0	0	0	72.0800	0.23
0	0	0	73.0800	-0.09
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.09
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.09

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.09
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.09
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.09
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.08
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.08
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.08
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.07
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.06
0	0	0	113.0800	0.02
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.05
0	0	0	117.0800	0.02
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.04
0	0	0	121.0800	0.02
0	0	0	122.0800	0.01
0	0	0	123.0800	0.05
0	0	0	124.0800	0.03
0	0	0	125.0800	0.01
0	0	0	126.0800	0.01
0	0	0	127.0800	0.04
0	0	0	128.0800	0.02
0	0	0	129.0800	0.01
0	0	0	130.0800	0.01
0	0	0	131.0800	0.04
0	0	0	132.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	133.0800	0.01
0	0	0	134.0800	0.01
0	0	0	135.0800	0.04
0	0	0	136.0800	0.02
0	0	0	137.0800	0.01
0	0	0	138.0800	0.01
0	0	0	139.0800	0.04
0	0	0	140.0800	0.02
0	0	0	141.0800	0.01
0	0	0	142.0800	0.01
0	0	0	143.0800	0.04
0	0	0	144.0800	0.02
0	0	0	145.0800	0.01
0	0	0	146.0800	0.01
0	0	0	147.0800	0.04
0	0	0	148.0800	0.02
0	0	0	149.0800	0.01
0	0	0	150.0800	0.01
0	0	0	151.0800	0.04
0	0	0	152.0800	0.02
0	0	0	153.0800	0.01
0	0	0	154.0800	0.05
0	0	0	155.0800	0.03
0	0	0	156.0800	0.01
0	0	0	157.0800	0.01
0	0	0	158.0800	0.04
0	0	0	159.0800	0.02
0	0	0	160.0800	0.01
0	0	0	161.0800	0.01
0	0	0	162.0800	0.04
0	0	0	163.0800	0.02
0	0	0	164.0800	0.01
0	0	0	165.0800	0.01
0	0	0	166.0800	0.04
0	0	0	167.0800	0.02
0	0	0	168.0800	0.01
0	0	0	169.0800	0.01
0	0	0	170.0800	0.04
0	0	0	171.0800	0.02
0	0	0	172.0800	0.01
0	0	0	173.0800	0.01
0	0	0	174.0800	0.04
0	0	0	175.0800	0.02
0	0	0	176.0800	0.01
0	0	0	177.0800	0.01
0	0	0	178.0800	0.04
0	0	0	179.0800	0.02
0	0	0	180.0800	0.01
0	0	0	181.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	182.0800	0.04
0	0	0	183.0800	0.02
0	0	0	184.0800	0.01
0	0	0	185.0800	0.01
0	0	0	186.0800	0.04
0	0	0	187.0800	0.02
0	0	0	188.0800	0.01
0	0	0	189.0800	0.04
0	0	0	190.0800	0.03
0	0	0	191.0800	0.01
0	0	0	192.0800	0.01
0	0	0	193.0800	0.04
0	0	0	194.0800	0.02
0	0	0	195.0800	0.01
0	0	0	196.0800	0.01
0	0	0	197.0800	0.04
0	0	0	198.0800	0.02
0	0	0	199.0800	0.01
0	0	0	200.0800	0.01
0	0	0	201.0800	0.04
0	0	0	202.0800	0.02
0	0	0	203.0800	0.01
0	0	0	204.0800	0.01
0	0	0	205.0800	0.04
0	0	0	206.0800	0.02
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.04
0	0	0	210.0800	0.02
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.04
0	0	0	214.0800	0.02
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.04
0	0	0	218.0800	0.02
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01
0	0	0	221.0800	0.04
0	0	0	222.0800	0.02
0	0	0	223.0800	0.01
0	0	0	224.0800	0.04
0	0	0	225.0800	0.02
0	0	0	226.0800	0.01
0	0	0	227.0800	0.01
0	0	0	228.0800	0.04
0	0	0	229.0800	0.02
0	0	0	230.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	231.0800	0.01
0	0	0	232.0800	0.04
0	0	0	233.0800	0.02
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.04
0	0	0	237.0800	0.02
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.04
0	0	0	241.0800	0.02
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01
0	0	0	244.0800	0.04
0	0	0	245.0800	0.02
0	0	0	246.0800	0.01
0	0	0	247.0800	0.01
0	0	0	248.0800	0.04
0	0	0	249.0800	0.02
0	0	0	250.0800	0.01
0	0	0	251.0800	0.01
0	0	0	252.0800	0.03
0	0	0	253.0800	0.02
0	0	0	254.0800	0.01
0	0	0	255.0800	0.01
0	0	0	256.0800	0.03
0	0	0	257.0800	0.02
0	0	0	258.0800	0.01
0	0	0	259.0800	0.01
0	0	0	260.0800	0.03
0	0	0	261.0800	0.02
0	0	0	262.0800	0.01
0	0	0	263.0800	0.01
0	0	0	264.0800	0.03
0	0	0	265.0800	0.02
0	0	0	266.0800	0.01
0	0	0	267.0800	0.01
0	0	0	268.0800	0.03
0	0	0	269.0800	0.02
0	0	0	270.0800	0.01
0	0	0	271.0800	0.01
0	0	0	272.0800	0.03
0	0	0	273.0800	0.02
0	0	0	274.0800	0.01
0	0	0	275.0800	0.01
0	0	0	276.0800	0.03
0	0	0	277.0800	0.02
0	0	0	278.0800	0.01
0	0	0	279.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	280.0800	0.03
0	0	0	281.0800	0.02
0	0	0	282.0800	0.01
0	0	0	283.0800	0.01
0	0	0	284.0800	0.03
0	0	0	285.0800	0.02
0	0	0	286.0800	0.01
0	0	0	287.0800	0.01
0	0	0	288.0800	0.03
0	0	0	289.0800	0.02
0	0	0	290.0800	0.01
0	0	0	291.0800	0.01
0	0	0	292.0800	0.03
0	0	0	293.0800	0.02
0	0	0	294.0800	0.01
0	0	0	295.0800	0.01
0	0	0	296.0800	0.03
0	0	0	297.0800	0.02
0	0	0	298.0800	0.01
0	0	0	299.0800	0.01
0	0	0	300.0800	0.03
0	0	0	301.0800	0.02
0	0	0	302.0800	0.01
0	0	0	303.0800	0.01
0	0	0	304.0800	0.03
0	0	0	305.0800	0.02
0	0	0	306.0800	0.01
0	0	0	307.0800	0.01
0	0	0	308.0800	0.03
0	0	0	309.0800	0.02
0	0	0	310.0800	0.01
0	0	0	311.0800	0.01
0	0	0	312.0800	0.03
0	0	0	313.0800	0.02
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.03
0	0	0	317.0800	0.02
0	0	0	318.0800	0.02
0	0	0	319.0800	0.01
0	0	0	320.0800	0.03
0	0	0	321.0800	0.02
0	0	0	322.0800	0.02
0	0	0	323.0800	0.01
0	0	0	324.0800	0.03
0	0	0	325.0800	0.02
0	0	0	326.0800	0.02
0	0	0	327.0800	0.01
0	0	0	328.0800	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	329.0800	0.02
0	0	0	330.0800	0.02
0	0	0	331.0800	0.01
0	0	0	332.0800	0.02
0	0	0	333.0800	0.02
0	0	0	334.0800	0.02
0	0	0	335.0800	0.01
0	0	0	336.0800	0.02
0	0	0	337.0800	0.02
0	0	0	338.0800	0.02
0	0	0	339.0800	0.01
0	0	0	340.0800	0.02
0	0	0	341.0800	0.02
0	0	0	342.0800	0.02
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.02
0	0	0	346.0800	0.02
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.02
0	0	0	350.0800	0.02
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.02
0	0	0	354.0800	0.02
0	0	0	355.0800	0.02
0	0	0	356.0800	0.01
0	0	0	357.0800	0.02
0	0	0	358.0800	0.02
0	0	0	359.0800	0.02
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 15

Rating Curve: CS-16

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.00
0	0	0	7.0000	0.00
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.01
0	0	0	10.0000	0.01
0	0	0	10.5000	0.01
0	0	0	11.0000	0.01
0	0	0	11.5000	0.02
0	0	0	12.0000	0.02
0	0	0	12.5000	0.02
0	0	0	13.0000	0.02
0	0	0	13.5000	0.02
0	0	0	14.0000	0.02
0	0	0	14.5000	0.02
0	0	0	15.0000	0.02
0	0	0	15.5000	0.03
0	0	0	16.0000	0.03
0	0	0	16.5000	0.03
0	0	0	17.0000	0.03
0	0	0	17.5000	0.03
0	0	0	18.0000	0.03
0	0	0	18.5000	0.03
0	0	0	19.0000	0.04
0	0	0	19.5000	0.04
0	0	0	20.0000	0.04
0	0	0	20.5000	0.04
0	0	0	21.0000	0.04
0	0	0	21.5000	0.04
0	0	0	22.0000	0.04
0	0	0	22.5000	0.04
0	0	0	23.0000	0.04
0	0	0	23.5000	0.05
0	0	0	24.0000	0.05
0	0	0	24.5000	0.05
0	0	0	25.0000	0.05
0	0	0	25.5000	0.05
0	0	0	26.0000	0.06
0	0	0	26.5000	0.06
0	0	0	27.0000	0.06

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	27.5000	0.06
0	0	0	28.0000	0.06
0	0	0	28.5000	0.07
0	0	0	29.0000	0.07
0	0	0	29.5000	0.07
0	0	0	30.0000	0.07
0	0	0	30.5000	0.07
0	0	0	31.0000	0.08
0	0	0	31.5000	0.08
0	0	0	32.0000	0.08
0	0	0	32.5000	0.08
0	0	0	33.0000	0.08
0	0	0	33.5000	0.08
0	0	0	34.0000	0.08
0	0	0	34.5000	0.09
0	0	0	35.0000	0.09
0	0	0	35.5000	0.09
0	0	0	36.0000	0.09
0	0	0	36.5000	0.09
0	0	0	37.0000	0.09
0	0	0	37.5000	0.09
0	0	0	38.0000	0.09
0	0	0	38.5000	0.09
0	0	0	39.0000	0.10
0	0	0	39.5000	0.10
0	0	0	40.0000	0.10
0	0	0	40.5000	0.10
0	0	0	41.0000	0.10
0	0	0	41.5000	0.10
0	0	0	42.0000	0.10
0	0	0	42.5000	0.10
0	0	0	43.0000	0.10
0	0	0	43.5000	0.10
0	0	0	44.0000	0.10
0	0	0	44.5000	0.10
0	0	0	45.0000	0.10
0	0	0	45.5000	0.10
0	0	0	46.0000	0.10
0	0	0	46.5000	0.10
0	0	0	47.0000	0.10
0	0	0	47.5000	0.10
0	0	0	48.0000	0.10
0	0	0	48.5000	0.10
0	0	0	48.7500	0.10
0	0	0	49.0000	0.10
0	0	0	49.2500	0.10
0	0	0	49.5000	0.11
0	0	0	49.7500	0.11
0	0	0	50.0000	0.11

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	50.2500	0.11
0	0	0	50.5000	0.11
0	0	0	50.7500	0.11
0	0	0	51.0000	0.11
0	0	0	51.2500	0.11
0	0	0	51.5000	0.11
0	0	0	51.7500	0.11
0	0	0	52.0000	0.11
0	0	0	52.2500	0.12
0	0	0	52.5000	0.12
0	0	0	52.7500	0.12
0	0	0	53.0000	0.12
0	0	0	53.2500	0.13
0	0	0	53.5000	0.13
0	0	0	53.7500	0.14
0	0	0	54.0000	0.14
0	0	0	54.2500	0.14
0	0	0	54.5000	0.15
0	0	0	54.7500	0.15
0	0	0	55.0000	0.16
0	0	0	55.2500	0.16
0	0	0	55.4200	0.17
0	0	0	55.5800	0.17
0	0	0	55.7500	0.17
0	0	0	55.9200	0.18
0	0	0	56.0800	0.18
0	0	0	56.2500	0.19
0	0	0	56.4200	0.19
0	0	0	56.5800	0.20
0	0	0	56.7500	0.20
0	0	0	56.9200	0.21
0	0	0	57.0800	0.21
0	0	0	57.2500	0.22
0	0	0	57.4200	0.22
0	0	0	57.5800	0.23
0	0	0	57.7500	0.24
0	0	0	57.9200	0.24
0	0	0	58.0800	0.25
0	0	0	58.2500	0.26
0	0	0	58.4200	0.27
0	0	0	58.5800	0.28
0	0	0	58.7500	0.29
0	0	0	58.9200	0.30
0	0	0	59.0800	0.31
0	0	0	59.2500	0.33
0	0	0	59.4200	0.35
0	0	0	59.5800	0.40
0	0	0	59.7500	1.34
0	0	0	59.9200	3.07

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	60.0800	4.48
0	0	0	60.2500	4.34
0	0	0	60.4200	3.74
0	0	0	60.5800	3.22
0	0	0	60.7500	2.71
0	0	0	60.9200	2.30
0	0	0	61.0800	1.98
0	0	0	61.3300	1.59
0	0	0	61.5800	1.32
0	0	0	61.8300	1.12
0	0	0	62.0800	0.97
0	0	0	62.3300	0.83
0	0	0	62.5800	0.73
0	0	0	62.8300	0.64
0	0	0	63.0800	0.58
0	0	0	63.3300	0.52
0	0	0	63.5800	0.49
0	0	0	63.8300	0.45
0	0	0	64.0800	0.42
0	0	0	64.3300	0.38
0	0	0	64.5800	0.33
0	0	0	64.8300	0.29
0	0	0	65.0800	0.26
0	0	0	65.3300	0.23
0	0	0	65.5800	0.20
0	0	0	65.8300	0.21
0	0	0	66.0800	0.18
0	0	0	66.3300	0.15
0	0	0	66.5800	0.17
0	0	0	66.8300	0.14
0	0	0	67.0800	0.17
0	0	0	67.3300	0.12
0	0	0	67.5800	0.16
0	0	0	67.8300	0.19
0	0	0	68.0800	0.13
0	0	0	68.3300	0.14
0	0	0	68.5800	0.15
0	0	0	68.8300	0.03
0	0	0	69.0800	0.10
0	0	0	69.3300	0.13
0	0	0	69.5800	0.14
0	0	0	69.8300	0.02
0	0	0	70.0800	0.10
0	0	0	70.3300	0.13
0	0	0	70.5800	0.15
0	0	0	70.8300	0.01
0	0	0	71.0800	0.10
0	0	0	71.3300	0.14
0	0	0	71.5800	0.15

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	71.8300	0.16
0	0	0	72.0800	0.15
0	0	0	73.0800	-0.06
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.06
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.06
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.06
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.06
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.06
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.06
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.05
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.05
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.05
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.04
0	0	0	113.0800	0.01
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.03
0	0	0	117.0800	0.01
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	120.0800	0.03
0	0	0	121.0800	0.02
0	0	0	122.0800	0.01
0	0	0	123.0800	0.03
0	0	0	124.0800	0.02
0	0	0	125.0800	0.01
0	0	0	126.0800	0.00
0	0	0	127.0800	0.03
0	0	0	128.0800	0.02
0	0	0	129.0800	0.01
0	0	0	130.0800	0.00
0	0	0	131.0800	0.03
0	0	0	132.0800	0.02
0	0	0	133.0800	0.01
0	0	0	134.0800	0.00
0	0	0	135.0800	0.03
0	0	0	136.0800	0.02
0	0	0	137.0800	0.01
0	0	0	138.0800	0.00
0	0	0	139.0800	0.03
0	0	0	140.0800	0.02
0	0	0	141.0800	0.01
0	0	0	142.0800	0.00
0	0	0	143.0800	0.03
0	0	0	144.0800	0.02
0	0	0	145.0800	0.01
0	0	0	146.0800	0.00
0	0	0	147.0800	0.03
0	0	0	148.0800	0.02
0	0	0	149.0800	0.01
0	0	0	150.0800	0.00
0	0	0	151.0800	0.03
0	0	0	152.0800	0.02
0	0	0	153.0800	0.01
0	0	0	154.0800	0.03
0	0	0	155.0800	0.02
0	0	0	156.0800	0.01
0	0	0	157.0800	0.01
0	0	0	158.0800	0.03
0	0	0	159.0800	0.02
0	0	0	160.0800	0.01
0	0	0	161.0800	0.00
0	0	0	162.0800	0.03
0	0	0	163.0800	0.02
0	0	0	164.0800	0.01
0	0	0	165.0800	0.00
0	0	0	166.0800	0.03
0	0	0	167.0800	0.02
0	0	0	168.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	169.0800	0.00
0	0	0	170.0800	0.03
0	0	0	171.0800	0.02
0	0	0	172.0800	0.01
0	0	0	173.0800	0.00
0	0	0	174.0800	0.03
0	0	0	175.0800	0.02
0	0	0	176.0800	0.01
0	0	0	177.0800	0.00
0	0	0	178.0800	0.03
0	0	0	179.0800	0.02
0	0	0	180.0800	0.01
0	0	0	181.0800	0.00
0	0	0	182.0800	0.03
0	0	0	183.0800	0.02
0	0	0	184.0800	0.01
0	0	0	185.0800	0.00
0	0	0	186.0800	0.03
0	0	0	187.0800	0.02
0	0	0	188.0800	0.01
0	0	0	189.0800	0.03
0	0	0	190.0800	0.02
0	0	0	191.0800	0.01
0	0	0	192.0800	0.01
0	0	0	193.0800	0.03
0	0	0	194.0800	0.02
0	0	0	195.0800	0.01
0	0	0	196.0800	0.00
0	0	0	197.0800	0.03
0	0	0	198.0800	0.02
0	0	0	199.0800	0.01
0	0	0	200.0800	0.00
0	0	0	201.0800	0.03
0	0	0	202.0800	0.02
0	0	0	203.0800	0.01
0	0	0	204.0800	0.00
0	0	0	205.0800	0.03
0	0	0	206.0800	0.02
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.03
0	0	0	210.0800	0.02
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.03
0	0	0	214.0800	0.02
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	218.0800	0.02
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01
0	0	0	221.0800	0.02
0	0	0	222.0800	0.02
0	0	0	223.0800	0.01
0	0	0	224.0800	0.03
0	0	0	225.0800	0.02
0	0	0	226.0800	0.01
0	0	0	227.0800	0.01
0	0	0	228.0800	0.02
0	0	0	229.0800	0.02
0	0	0	230.0800	0.01
0	0	0	231.0800	0.01
0	0	0	232.0800	0.02
0	0	0	233.0800	0.02
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.02
0	0	0	237.0800	0.02
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.02
0	0	0	241.0800	0.02
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01
0	0	0	244.0800	0.02
0	0	0	245.0800	0.01
0	0	0	246.0800	0.01
0	0	0	247.0800	0.01
0	0	0	248.0800	0.02
0	0	0	249.0800	0.01
0	0	0	250.0800	0.01
0	0	0	251.0800	0.01
0	0	0	252.0800	0.02
0	0	0	253.0800	0.01
0	0	0	254.0800	0.01
0	0	0	255.0800	0.01
0	0	0	256.0800	0.02
0	0	0	257.0800	0.01
0	0	0	258.0800	0.01
0	0	0	259.0800	0.01
0	0	0	260.0800	0.02
0	0	0	261.0800	0.01
0	0	0	262.0800	0.01
0	0	0	263.0800	0.01
0	0	0	264.0800	0.02
0	0	0	265.0800	0.01
0	0	0	266.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	267.0800	0.01
0	0	0	268.0800	0.02
0	0	0	269.0800	0.01
0	0	0	270.0800	0.01
0	0	0	271.0800	0.01
0	0	0	272.0800	0.02
0	0	0	273.0800	0.01
0	0	0	274.0800	0.01
0	0	0	275.0800	0.01
0	0	0	276.0800	0.02
0	0	0	277.0800	0.01
0	0	0	278.0800	0.01
0	0	0	279.0800	0.01
0	0	0	280.0800	0.02
0	0	0	281.0800	0.01
0	0	0	282.0800	0.01
0	0	0	283.0800	0.01
0	0	0	284.0800	0.02
0	0	0	285.0800	0.01
0	0	0	286.0800	0.01
0	0	0	287.0800	0.01
0	0	0	288.0800	0.02
0	0	0	289.0800	0.01
0	0	0	290.0800	0.01
0	0	0	291.0800	0.01
0	0	0	292.0800	0.02
0	0	0	293.0800	0.01
0	0	0	294.0800	0.01
0	0	0	295.0800	0.01
0	0	0	296.0800	0.02
0	0	0	297.0800	0.01
0	0	0	298.0800	0.01
0	0	0	299.0800	0.01
0	0	0	300.0800	0.02
0	0	0	301.0800	0.01
0	0	0	302.0800	0.01
0	0	0	303.0800	0.01
0	0	0	304.0800	0.02
0	0	0	305.0800	0.01
0	0	0	306.0800	0.01
0	0	0	307.0800	0.01
0	0	0	308.0800	0.02
0	0	0	309.0800	0.01
0	0	0	310.0800	0.01
0	0	0	311.0800	0.01
0	0	0	312.0800	0.02
0	0	0	313.0800	0.01
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	316.0800	0.02
0	0	0	317.0800	0.01
0	0	0	318.0800	0.01
0	0	0	319.0800	0.01
0	0	0	320.0800	0.02
0	0	0	321.0800	0.01
0	0	0	322.0800	0.01
0	0	0	323.0800	0.01
0	0	0	324.0800	0.02
0	0	0	325.0800	0.01
0	0	0	326.0800	0.01
0	0	0	327.0800	0.01
0	0	0	328.0800	0.02
0	0	0	329.0800	0.01
0	0	0	330.0800	0.01
0	0	0	331.0800	0.01
0	0	0	332.0800	0.02
0	0	0	333.0800	0.01
0	0	0	334.0800	0.01
0	0	0	335.0800	0.01
0	0	0	336.0800	0.02
0	0	0	337.0800	0.01
0	0	0	338.0800	0.01
0	0	0	339.0800	0.01
0	0	0	340.0800	0.02
0	0	0	341.0800	0.01
0	0	0	342.0800	0.01
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.01
0	0	0	346.0800	0.01
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.01
0	0	0	350.0800	0.01
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.01
0	0	0	354.0800	0.01
0	0	0	355.0800	0.01
0	0	0	356.0800	0.01
0	0	0	357.0800	0.01
0	0	0	358.0800	0.01
0	0	0	359.0800	0.01
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 16

Rating Curve: CS-7

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.00
0	0	0	7.0000	0.00
0	0	0	7.5000	0.00
0	0	0	8.0000	0.00
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.01
0	0	0	10.0000	0.01
0	0	0	10.5000	0.01
0	0	0	11.0000	0.01
0	0	0	11.5000	0.01
0	0	0	12.0000	0.01
0	0	0	12.5000	0.01
0	0	0	13.0000	0.01
0	0	0	13.5000	0.01
0	0	0	14.0000	0.02
0	0	0	14.5000	0.02
0	0	0	15.0000	0.02
0	0	0	15.5000	0.02
0	0	0	16.0000	0.02
0	0	0	16.5000	0.02
0	0	0	17.0000	0.02
0	0	0	17.5000	0.02
0	0	0	18.0000	0.02
0	0	0	18.5000	0.02
0	0	0	19.0000	0.03
0	0	0	19.5000	0.03
0	0	0	20.0000	0.03
0	0	0	20.5000	0.03
0	0	0	21.0000	0.03
0	0	0	21.5000	0.03
0	0	0	22.0000	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	22.5000	0.03
0	0	0	23.0000	0.03
0	0	0	23.5000	0.03
0	0	0	24.0000	0.03
0	0	0	24.5000	0.04
0	0	0	25.0000	0.04
0	0	0	25.5000	0.04
0	0	0	26.0000	0.04
0	0	0	26.5000	0.04
0	0	0	27.0000	0.04
0	0	0	27.5000	0.05
0	0	0	28.0000	0.05
0	0	0	28.5000	0.05
0	0	0	29.0000	0.05
0	0	0	29.5000	0.05
0	0	0	30.0000	0.05
0	0	0	30.5000	0.05
0	0	0	31.0000	0.05
0	0	0	31.5000	0.06
0	0	0	32.0000	0.06
0	0	0	32.5000	0.06
0	0	0	33.0000	0.06
0	0	0	33.5000	0.06
0	0	0	34.0000	0.06
0	0	0	34.5000	0.06
0	0	0	35.0000	0.06
0	0	0	35.5000	0.06
0	0	0	36.0000	0.07
0	0	0	36.5000	0.07
0	0	0	37.0000	0.07
0	0	0	37.5000	0.07
0	0	0	38.0000	0.07
0	0	0	38.5000	0.07
0	0	0	39.0000	0.07
0	0	0	39.5000	0.07
0	0	0	40.0000	0.07
0	0	0	40.5000	0.07
0	0	0	41.0000	0.07
0	0	0	41.5000	0.07
0	0	0	42.0000	0.07
0	0	0	42.5000	0.07
0	0	0	43.0000	0.07
0	0	0	43.5000	0.07
0	0	0	44.0000	0.07
0	0	0	44.5000	0.07
0	0	0	45.0000	0.07
0	0	0	45.5000	0.07
0	0	0	46.0000	0.07
0	0	0	46.5000	0.07

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	47.0000	0.07
0	0	0	47.5000	0.07
0	0	0	48.0000	0.07
0	0	0	48.5000	0.08
0	0	0	48.7500	0.08
0	0	0	49.0000	0.08
0	0	0	49.2500	0.08
0	0	0	49.5000	0.08
0	0	0	49.7500	0.08
0	0	0	50.0000	0.08
0	0	0	50.2500	0.08
0	0	0	50.5000	0.08
0	0	0	50.7500	0.08
0	0	0	51.0000	0.08
0	0	0	51.2500	0.08
0	0	0	51.5000	0.08
0	0	0	51.7500	0.08
0	0	0	52.0000	0.08
0	0	0	52.2500	0.09
0	0	0	52.5000	0.09
0	0	0	52.7500	0.09
0	0	0	53.0000	0.09
0	0	0	53.2500	0.09
0	0	0	53.5000	0.10
0	0	0	53.7500	0.10
0	0	0	54.0000	0.10
0	0	0	54.2500	0.10
0	0	0	54.5000	0.11
0	0	0	54.7500	0.11
0	0	0	55.0000	0.12
0	0	0	55.2500	0.12
0	0	0	55.4200	0.12
0	0	0	55.5800	0.13
0	0	0	55.7500	0.13
0	0	0	55.9200	0.13
0	0	0	56.0800	0.13
0	0	0	56.2500	0.14
0	0	0	56.4200	0.14
0	0	0	56.5800	0.14
0	0	0	56.7500	0.15
0	0	0	56.9200	0.15
0	0	0	57.0800	0.16
0	0	0	57.2500	0.16
0	0	0	57.4200	0.16
0	0	0	57.5800	0.17
0	0	0	57.7500	0.17
0	0	0	57.9200	0.18
0	0	0	58.0800	0.18
0	0	0	58.2500	0.19

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	58.4200	0.20
0	0	0	58.5800	0.20
0	0	0	58.7500	0.21
0	0	0	58.9200	0.22
0	0	0	59.0800	0.23
0	0	0	59.2500	0.24
0	0	0	59.4200	0.26
0	0	0	59.5800	0.29
0	0	0	59.7500	0.98
0	0	0	59.9200	2.24
0	0	0	60.0800	3.26
0	0	0	60.2500	3.16
0	0	0	60.4200	2.72
0	0	0	60.5800	2.35
0	0	0	60.7500	1.98
0	0	0	60.9200	1.67
0	0	0	61.0800	1.44
0	0	0	61.3300	1.16
0	0	0	61.5800	0.96
0	0	0	61.8300	0.82
0	0	0	62.0800	0.71
0	0	0	62.3300	0.61
0	0	0	62.5800	0.53
0	0	0	62.8300	0.47
0	0	0	63.0800	0.42
0	0	0	63.3300	0.38
0	0	0	63.5800	0.35
0	0	0	63.8300	0.33
0	0	0	64.0800	0.31
0	0	0	64.3300	0.27
0	0	0	64.5800	0.24
0	0	0	64.8300	0.21
0	0	0	65.0800	0.19
0	0	0	65.3300	0.17
0	0	0	65.5800	0.14
0	0	0	65.8300	0.15
0	0	0	66.0800	0.13
0	0	0	66.3300	0.11
0	0	0	66.5800	0.13
0	0	0	66.8300	0.10
0	0	0	67.0800	0.12
0	0	0	67.3300	0.09
0	0	0	67.5800	0.12
0	0	0	67.8300	0.14
0	0	0	68.0800	0.09
0	0	0	68.3300	0.11
0	0	0	68.5800	0.11
0	0	0	68.8300	0.03
0	0	0	69.0800	0.07

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	69.3300	0.10
0	0	0	69.5800	0.11
0	0	0	69.8300	0.01
0	0	0	70.0800	0.07
0	0	0	70.3300	0.10
0	0	0	70.5800	0.11
0	0	0	70.8300	0.01
0	0	0	71.0800	0.07
0	0	0	71.3300	0.10
0	0	0	71.5800	0.11
0	0	0	71.8300	0.11
0	0	0	72.0800	0.11
0	0	0	73.0800	-0.04
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.04
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.04
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.04
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.04
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.04
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.04
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.04
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.04
0	0	0	105.0800	0.00
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.03
0	0	0	109.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.03
0	0	0	113.0800	0.01
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.02
0	0	0	117.0800	0.01
0	0	0	118.0800	0.00
0	0	0	119.0800	0.00
0	0	0	120.0800	0.02
0	0	0	121.0800	0.01
0	0	0	122.0800	0.01
0	0	0	123.0800	0.02
0	0	0	124.0800	0.01
0	0	0	125.0800	0.01
0	0	0	126.0800	0.00
0	0	0	127.0800	0.02
0	0	0	128.0800	0.01
0	0	0	129.0800	0.01
0	0	0	130.0800	0.00
0	0	0	131.0800	0.02
0	0	0	132.0800	0.01
0	0	0	133.0800	0.01
0	0	0	134.0800	0.00
0	0	0	135.0800	0.02
0	0	0	136.0800	0.01
0	0	0	137.0800	0.01
0	0	0	138.0800	0.00
0	0	0	139.0800	0.02
0	0	0	140.0800	0.01
0	0	0	141.0800	0.01
0	0	0	142.0800	0.00
0	0	0	143.0800	0.02
0	0	0	144.0800	0.01
0	0	0	145.0800	0.01
0	0	0	146.0800	0.00
0	0	0	147.0800	0.02
0	0	0	148.0800	0.01
0	0	0	149.0800	0.01
0	0	0	150.0800	0.00
0	0	0	151.0800	0.02
0	0	0	152.0800	0.01
0	0	0	153.0800	0.01
0	0	0	154.0800	0.02
0	0	0	155.0800	0.01
0	0	0	156.0800	0.01
0	0	0	157.0800	0.00
0	0	0	158.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	159.0800	0.01
0	0	0	160.0800	0.01
0	0	0	161.0800	0.00
0	0	0	162.0800	0.02
0	0	0	163.0800	0.01
0	0	0	164.0800	0.01
0	0	0	165.0800	0.00
0	0	0	166.0800	0.02
0	0	0	167.0800	0.01
0	0	0	168.0800	0.01
0	0	0	169.0800	0.00
0	0	0	170.0800	0.02
0	0	0	171.0800	0.01
0	0	0	172.0800	0.01
0	0	0	173.0800	0.00
0	0	0	174.0800	0.02
0	0	0	175.0800	0.01
0	0	0	176.0800	0.01
0	0	0	177.0800	0.00
0	0	0	178.0800	0.02
0	0	0	179.0800	0.01
0	0	0	180.0800	0.01
0	0	0	181.0800	0.00
0	0	0	182.0800	0.02
0	0	0	183.0800	0.01
0	0	0	184.0800	0.01
0	0	0	185.0800	0.00
0	0	0	186.0800	0.02
0	0	0	187.0800	0.01
0	0	0	188.0800	0.01
0	0	0	189.0800	0.02
0	0	0	190.0800	0.01
0	0	0	191.0800	0.01
0	0	0	192.0800	0.00
0	0	0	193.0800	0.02
0	0	0	194.0800	0.01
0	0	0	195.0800	0.01
0	0	0	196.0800	0.00
0	0	0	197.0800	0.02
0	0	0	198.0800	0.01
0	0	0	199.0800	0.01
0	0	0	200.0800	0.00
0	0	0	201.0800	0.02
0	0	0	202.0800	0.01
0	0	0	203.0800	0.01
0	0	0	204.0800	0.00
0	0	0	205.0800	0.02
0	0	0	206.0800	0.01
0	0	0	207.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	208.0800	0.00
0	0	0	209.0800	0.02
0	0	0	210.0800	0.01
0	0	0	211.0800	0.01
0	0	0	212.0800	0.00
0	0	0	213.0800	0.02
0	0	0	214.0800	0.01
0	0	0	215.0800	0.01
0	0	0	216.0800	0.00
0	0	0	217.0800	0.02
0	0	0	218.0800	0.01
0	0	0	219.0800	0.01
0	0	0	220.0800	0.00
0	0	0	221.0800	0.02
0	0	0	222.0800	0.01
0	0	0	223.0800	0.01
0	0	0	224.0800	0.02
0	0	0	225.0800	0.01
0	0	0	226.0800	0.01
0	0	0	227.0800	0.00
0	0	0	228.0800	0.02
0	0	0	229.0800	0.01
0	0	0	230.0800	0.01
0	0	0	231.0800	0.00
0	0	0	232.0800	0.02
0	0	0	233.0800	0.01
0	0	0	234.0800	0.01
0	0	0	235.0800	0.00
0	0	0	236.0800	0.02
0	0	0	237.0800	0.01
0	0	0	238.0800	0.01
0	0	0	239.0800	0.00
0	0	0	240.0800	0.02
0	0	0	241.0800	0.01
0	0	0	242.0800	0.01
0	0	0	243.0800	0.00
0	0	0	244.0800	0.02
0	0	0	245.0800	0.01
0	0	0	246.0800	0.01
0	0	0	247.0800	0.00
0	0	0	248.0800	0.02
0	0	0	249.0800	0.01
0	0	0	250.0800	0.01
0	0	0	251.0800	0.00
0	0	0	252.0800	0.02
0	0	0	253.0800	0.01
0	0	0	254.0800	0.01
0	0	0	255.0800	0.00
0	0	0	256.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	257.0800	0.01
0	0	0	258.0800	0.01
0	0	0	259.0800	0.00
0	0	0	260.0800	0.02
0	0	0	261.0800	0.01
0	0	0	262.0800	0.01
0	0	0	263.0800	0.00
0	0	0	264.0800	0.02
0	0	0	265.0800	0.01
0	0	0	266.0800	0.01
0	0	0	267.0800	0.00
0	0	0	268.0800	0.02
0	0	0	269.0800	0.01
0	0	0	270.0800	0.01
0	0	0	271.0800	0.00
0	0	0	272.0800	0.02
0	0	0	273.0800	0.01
0	0	0	274.0800	0.01
0	0	0	275.0800	0.00
0	0	0	276.0800	0.02
0	0	0	277.0800	0.01
0	0	0	278.0800	0.01
0	0	0	279.0800	0.00
0	0	0	280.0800	0.02
0	0	0	281.0800	0.01
0	0	0	282.0800	0.01
0	0	0	283.0800	0.00
0	0	0	284.0800	0.02
0	0	0	285.0800	0.01
0	0	0	286.0800	0.01
0	0	0	287.0800	0.00
0	0	0	288.0800	0.01
0	0	0	289.0800	0.01
0	0	0	290.0800	0.01
0	0	0	291.0800	0.00
0	0	0	292.0800	0.01
0	0	0	293.0800	0.01
0	0	0	294.0800	0.01
0	0	0	295.0800	0.00
0	0	0	296.0800	0.01
0	0	0	297.0800	0.01
0	0	0	298.0800	0.01
0	0	0	299.0800	0.00
0	0	0	300.0800	0.01
0	0	0	301.0800	0.01
0	0	0	302.0800	0.01
0	0	0	303.0800	0.00
0	0	0	304.0800	0.01
0	0	0	305.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	306.0800	0.01
0	0	0	307.0800	0.00
0	0	0	308.0800	0.01
0	0	0	309.0800	0.01
0	0	0	310.0800	0.01
0	0	0	311.0800	0.00
0	0	0	312.0800	0.01
0	0	0	313.0800	0.01
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.01
0	0	0	317.0800	0.01
0	0	0	318.0800	0.01
0	0	0	319.0800	0.01
0	0	0	320.0800	0.01
0	0	0	321.0800	0.01
0	0	0	322.0800	0.01
0	0	0	323.0800	0.01
0	0	0	324.0800	0.01
0	0	0	325.0800	0.01
0	0	0	326.0800	0.01
0	0	0	327.0800	0.01
0	0	0	328.0800	0.01
0	0	0	329.0800	0.01
0	0	0	330.0800	0.01
0	0	0	331.0800	0.01
0	0	0	332.0800	0.01
0	0	0	333.0800	0.01
0	0	0	334.0800	0.01
0	0	0	335.0800	0.01
0	0	0	336.0800	0.01
0	0	0	337.0800	0.01
0	0	0	338.0800	0.01
0	0	0	339.0800	0.01
0	0	0	340.0800	0.01
0	0	0	341.0800	0.01
0	0	0	342.0800	0.01
0	0	0	343.0800	0.01
0	0	0	344.0800	0.00
0	0	0	345.0800	0.01
0	0	0	346.0800	0.01
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.01
0	0	0	350.0800	0.01
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.01
0	0	0	354.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	355.0800	0.01
0	0	0	356.0800	0.01
0	0	0	357.0800	0.01
0	0	0	358.0800	0.01
0	0	0	359.0800	0.01
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 7

Rating Curve: CS-8

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.00
0	0	0	6.0000	0.00
0	0	0	6.5000	0.00
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.01
0	0	0	9.0000	0.01
0	0	0	9.5000	0.01
0	0	0	10.0000	0.01
0	0	0	10.5000	0.01
0	0	0	11.0000	0.02
0	0	0	11.5000	0.02
0	0	0	12.0000	0.02
0	0	0	12.5000	0.02
0	0	0	13.0000	0.02
0	0	0	13.5000	0.02
0	0	0	14.0000	0.02
0	0	0	14.5000	0.03
0	0	0	15.0000	0.03
0	0	0	15.5000	0.03

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	16.0000	0.03
0	0	0	16.5000	0.03
0	0	0	17.0000	0.03
0	0	0	17.5000	0.04
0	0	0	18.0000	0.04
0	0	0	18.5000	0.04
0	0	0	19.0000	0.04
0	0	0	19.5000	0.04
0	0	0	20.0000	0.04
0	0	0	20.5000	0.04
0	0	0	21.0000	0.05
0	0	0	21.5000	0.05
0	0	0	22.0000	0.05
0	0	0	22.5000	0.05
0	0	0	23.0000	0.05
0	0	0	23.5000	0.05
0	0	0	24.0000	0.05
0	0	0	24.5000	0.05
0	0	0	25.0000	0.06
0	0	0	25.5000	0.06
0	0	0	26.0000	0.06
0	0	0	26.5000	0.07
0	0	0	27.0000	0.07
0	0	0	27.5000	0.07
0	0	0	28.0000	0.07
0	0	0	28.5000	0.07
0	0	0	29.0000	0.08
0	0	0	29.5000	0.08
0	0	0	30.0000	0.08
0	0	0	30.5000	0.08
0	0	0	31.0000	0.09
0	0	0	31.5000	0.09
0	0	0	32.0000	0.09
0	0	0	32.5000	0.09
0	0	0	33.0000	0.09
0	0	0	33.5000	0.09
0	0	0	34.0000	0.10
0	0	0	34.5000	0.10
0	0	0	35.0000	0.10
0	0	0	35.5000	0.10
0	0	0	36.0000	0.10
0	0	0	36.5000	0.10
0	0	0	37.0000	0.10
0	0	0	37.5000	0.10
0	0	0	38.0000	0.11
0	0	0	38.5000	0.11
0	0	0	39.0000	0.11
0	0	0	39.5000	0.11
0	0	0	40.0000	0.11

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	40.5000	0.11
0	0	0	41.0000	0.11
0	0	0	41.5000	0.11
0	0	0	42.0000	0.11
0	0	0	42.5000	0.11
0	0	0	43.0000	0.11
0	0	0	43.5000	0.11
0	0	0	44.0000	0.11
0	0	0	44.5000	0.11
0	0	0	45.0000	0.11
0	0	0	45.5000	0.11
0	0	0	46.0000	0.11
0	0	0	46.5000	0.12
0	0	0	47.0000	0.12
0	0	0	47.5000	0.12
0	0	0	48.0000	0.12
0	0	0	48.5000	0.12
0	0	0	48.7500	0.12
0	0	0	49.0000	0.12
0	0	0	49.2500	0.12
0	0	0	49.5000	0.12
0	0	0	49.7500	0.12
0	0	0	50.0000	0.12
0	0	0	50.2500	0.12
0	0	0	50.5000	0.12
0	0	0	50.7500	0.12
0	0	0	51.0000	0.12
0	0	0	51.2500	0.13
0	0	0	51.5000	0.13
0	0	0	51.7500	0.13
0	0	0	52.0000	0.13
0	0	0	52.2500	0.13
0	0	0	52.5000	0.14
0	0	0	52.7500	0.14
0	0	0	53.0000	0.14
0	0	0	53.2500	0.14
0	0	0	53.5000	0.15
0	0	0	53.7500	0.15
0	0	0	54.0000	0.16
0	0	0	54.2500	0.16
0	0	0	54.5000	0.17
0	0	0	54.7500	0.17
0	0	0	55.0000	0.18
0	0	0	55.2500	0.18
0	0	0	55.4200	0.19
0	0	0	55.5800	0.19
0	0	0	55.7500	0.20
0	0	0	55.9200	0.20
0	0	0	56.0800	0.21

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	56.2500	0.21
0	0	0	56.4200	0.22
0	0	0	56.5800	0.22
0	0	0	56.7500	0.23
0	0	0	56.9200	0.23
0	0	0	57.0800	0.24
0	0	0	57.2500	0.25
0	0	0	57.4200	0.25
0	0	0	57.5800	0.26
0	0	0	57.7500	0.27
0	0	0	57.9200	0.28
0	0	0	58.0800	0.28
0	0	0	58.2500	0.29
0	0	0	58.4200	0.30
0	0	0	58.5800	0.31
0	0	0	58.7500	0.32
0	0	0	58.9200	0.34
0	0	0	59.0800	0.35
0	0	0	59.2500	0.37
0	0	0	59.4200	0.40
0	0	0	59.5800	0.45
0	0	0	59.7500	1.51
0	0	0	59.9200	3.46
0	0	0	60.0800	5.05
0	0	0	60.2500	4.89
0	0	0	60.4200	4.22
0	0	0	60.5800	3.63
0	0	0	60.7500	3.06
0	0	0	60.9200	2.59
0	0	0	61.0800	2.23
0	0	0	61.3300	1.80
0	0	0	61.5800	1.49
0	0	0	61.8300	1.26
0	0	0	62.0800	1.09
0	0	0	62.3300	0.94
0	0	0	62.5800	0.82
0	0	0	62.8300	0.72
0	0	0	63.0800	0.65
0	0	0	63.3300	0.59
0	0	0	63.5800	0.55
0	0	0	63.8300	0.50
0	0	0	64.0800	0.48
0	0	0	64.3300	0.43
0	0	0	64.5800	0.37
0	0	0	64.8300	0.33
0	0	0	65.0800	0.29
0	0	0	65.3300	0.26
0	0	0	65.5800	0.22
0	0	0	65.8300	0.23

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	66.0800	0.20
0	0	0	66.3300	0.17
0	0	0	66.5800	0.19
0	0	0	66.8300	0.15
0	0	0	67.0800	0.19
0	0	0	67.3300	0.14
0	0	0	67.5800	0.18
0	0	0	67.8300	0.22
0	0	0	68.0800	0.14
0	0	0	68.3300	0.16
0	0	0	68.5800	0.17
0	0	0	68.8300	0.04
0	0	0	69.0800	0.11
0	0	0	69.3300	0.15
0	0	0	69.5800	0.16
0	0	0	69.8300	0.02
0	0	0	70.0800	0.11
0	0	0	70.3300	0.15
0	0	0	70.5800	0.17
0	0	0	70.8300	0.01
0	0	0	71.0800	0.11
0	0	0	71.3300	0.15
0	0	0	71.5800	0.17
0	0	0	71.8300	0.18
0	0	0	72.0800	0.17
0	0	0	73.0800	-0.07
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.07
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.07
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.07
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.07
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.06
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	97.0800	0.06
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.06
0	0	0	102.0800	0.00
0	0	0	103.0800	0.00
0	0	0	104.0800	0.06
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.05
0	0	0	109.0800	0.01
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.04
0	0	0	113.0800	0.01
0	0	0	114.0800	0.00
0	0	0	115.0800	0.00
0	0	0	116.0800	0.04
0	0	0	117.0800	0.02
0	0	0	118.0800	0.01
0	0	0	119.0800	0.00
0	0	0	120.0800	0.03
0	0	0	121.0800	0.02
0	0	0	122.0800	0.01
0	0	0	123.0800	0.04
0	0	0	124.0800	0.02
0	0	0	125.0800	0.01
0	0	0	126.0800	0.01
0	0	0	127.0800	0.03
0	0	0	128.0800	0.02
0	0	0	129.0800	0.01
0	0	0	130.0800	0.01
0	0	0	131.0800	0.03
0	0	0	132.0800	0.02
0	0	0	133.0800	0.01
0	0	0	134.0800	0.01
0	0	0	135.0800	0.03
0	0	0	136.0800	0.02
0	0	0	137.0800	0.01
0	0	0	138.0800	0.01
0	0	0	139.0800	0.03
0	0	0	140.0800	0.02
0	0	0	141.0800	0.01
0	0	0	142.0800	0.01
0	0	0	143.0800	0.03
0	0	0	144.0800	0.02
0	0	0	145.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	146.0800	0.01
0	0	0	147.0800	0.03
0	0	0	148.0800	0.02
0	0	0	149.0800	0.01
0	0	0	150.0800	0.01
0	0	0	151.0800	0.03
0	0	0	152.0800	0.02
0	0	0	153.0800	0.01
0	0	0	154.0800	0.03
0	0	0	155.0800	0.02
0	0	0	156.0800	0.01
0	0	0	157.0800	0.01
0	0	0	158.0800	0.03
0	0	0	159.0800	0.02
0	0	0	160.0800	0.01
0	0	0	161.0800	0.01
0	0	0	162.0800	0.03
0	0	0	163.0800	0.02
0	0	0	164.0800	0.01
0	0	0	165.0800	0.01
0	0	0	166.0800	0.03
0	0	0	167.0800	0.02
0	0	0	168.0800	0.01
0	0	0	169.0800	0.01
0	0	0	170.0800	0.03
0	0	0	171.0800	0.02
0	0	0	172.0800	0.01
0	0	0	173.0800	0.01
0	0	0	174.0800	0.03
0	0	0	175.0800	0.02
0	0	0	176.0800	0.01
0	0	0	177.0800	0.01
0	0	0	178.0800	0.03
0	0	0	179.0800	0.02
0	0	0	180.0800	0.01
0	0	0	181.0800	0.01
0	0	0	182.0800	0.03
0	0	0	183.0800	0.02
0	0	0	184.0800	0.01
0	0	0	185.0800	0.01
0	0	0	186.0800	0.03
0	0	0	187.0800	0.02
0	0	0	188.0800	0.01
0	0	0	189.0800	0.03
0	0	0	190.0800	0.02
0	0	0	191.0800	0.01
0	0	0	192.0800	0.01
0	0	0	193.0800	0.03
0	0	0	194.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	195.0800	0.01
0	0	0	196.0800	0.01
0	0	0	197.0800	0.03
0	0	0	198.0800	0.02
0	0	0	199.0800	0.01
0	0	0	200.0800	0.01
0	0	0	201.0800	0.03
0	0	0	202.0800	0.02
0	0	0	203.0800	0.01
0	0	0	204.0800	0.01
0	0	0	205.0800	0.03
0	0	0	206.0800	0.02
0	0	0	207.0800	0.01
0	0	0	208.0800	0.01
0	0	0	209.0800	0.03
0	0	0	210.0800	0.02
0	0	0	211.0800	0.01
0	0	0	212.0800	0.01
0	0	0	213.0800	0.03
0	0	0	214.0800	0.02
0	0	0	215.0800	0.01
0	0	0	216.0800	0.01
0	0	0	217.0800	0.03
0	0	0	218.0800	0.02
0	0	0	219.0800	0.01
0	0	0	220.0800	0.01
0	0	0	221.0800	0.03
0	0	0	222.0800	0.02
0	0	0	223.0800	0.01
0	0	0	224.0800	0.03
0	0	0	225.0800	0.02
0	0	0	226.0800	0.01
0	0	0	227.0800	0.01
0	0	0	228.0800	0.03
0	0	0	229.0800	0.02
0	0	0	230.0800	0.01
0	0	0	231.0800	0.01
0	0	0	232.0800	0.03
0	0	0	233.0800	0.02
0	0	0	234.0800	0.01
0	0	0	235.0800	0.01
0	0	0	236.0800	0.03
0	0	0	237.0800	0.02
0	0	0	238.0800	0.01
0	0	0	239.0800	0.01
0	0	0	240.0800	0.03
0	0	0	241.0800	0.02
0	0	0	242.0800	0.01
0	0	0	243.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	244.0800	0.03
0	0	0	245.0800	0.02
0	0	0	246.0800	0.01
0	0	0	247.0800	0.01
0	0	0	248.0800	0.03
0	0	0	249.0800	0.02
0	0	0	250.0800	0.01
0	0	0	251.0800	0.01
0	0	0	252.0800	0.03
0	0	0	253.0800	0.02
0	0	0	254.0800	0.01
0	0	0	255.0800	0.01
0	0	0	256.0800	0.03
0	0	0	257.0800	0.02
0	0	0	258.0800	0.01
0	0	0	259.0800	0.01
0	0	0	260.0800	0.03
0	0	0	261.0800	0.02
0	0	0	262.0800	0.01
0	0	0	263.0800	0.01
0	0	0	264.0800	0.02
0	0	0	265.0800	0.02
0	0	0	266.0800	0.01
0	0	0	267.0800	0.01
0	0	0	268.0800	0.02
0	0	0	269.0800	0.02
0	0	0	270.0800	0.01
0	0	0	271.0800	0.01
0	0	0	272.0800	0.02
0	0	0	273.0800	0.02
0	0	0	274.0800	0.01
0	0	0	275.0800	0.01
0	0	0	276.0800	0.02
0	0	0	277.0800	0.02
0	0	0	278.0800	0.01
0	0	0	279.0800	0.01
0	0	0	280.0800	0.02
0	0	0	281.0800	0.02
0	0	0	282.0800	0.01
0	0	0	283.0800	0.01
0	0	0	284.0800	0.02
0	0	0	285.0800	0.02
0	0	0	286.0800	0.01
0	0	0	287.0800	0.01
0	0	0	288.0800	0.02
0	0	0	289.0800	0.02
0	0	0	290.0800	0.01
0	0	0	291.0800	0.01
0	0	0	292.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	293.0800	0.02
0	0	0	294.0800	0.01
0	0	0	295.0800	0.01
0	0	0	296.0800	0.02
0	0	0	297.0800	0.02
0	0	0	298.0800	0.01
0	0	0	299.0800	0.01
0	0	0	300.0800	0.02
0	0	0	301.0800	0.02
0	0	0	302.0800	0.01
0	0	0	303.0800	0.01
0	0	0	304.0800	0.02
0	0	0	305.0800	0.02
0	0	0	306.0800	0.01
0	0	0	307.0800	0.01
0	0	0	308.0800	0.02
0	0	0	309.0800	0.02
0	0	0	310.0800	0.01
0	0	0	311.0800	0.01
0	0	0	312.0800	0.02
0	0	0	313.0800	0.02
0	0	0	314.0800	0.01
0	0	0	315.0800	0.01
0	0	0	316.0800	0.02
0	0	0	317.0800	0.02
0	0	0	318.0800	0.01
0	0	0	319.0800	0.01
0	0	0	320.0800	0.02
0	0	0	321.0800	0.02
0	0	0	322.0800	0.01
0	0	0	323.0800	0.01
0	0	0	324.0800	0.02
0	0	0	325.0800	0.02
0	0	0	326.0800	0.01
0	0	0	327.0800	0.01
0	0	0	328.0800	0.02
0	0	0	329.0800	0.01
0	0	0	330.0800	0.01
0	0	0	331.0800	0.01
0	0	0	332.0800	0.02
0	0	0	333.0800	0.01
0	0	0	334.0800	0.01
0	0	0	335.0800	0.01
0	0	0	336.0800	0.02
0	0	0	337.0800	0.01
0	0	0	338.0800	0.01
0	0	0	339.0800	0.01
0	0	0	340.0800	0.02
0	0	0	341.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	342.0800	0.01
0	0	0	343.0800	0.01
0	0	0	344.0800	0.01
0	0	0	345.0800	0.02
0	0	0	346.0800	0.01
0	0	0	347.0800	0.01
0	0	0	348.0800	0.01
0	0	0	349.0800	0.02
0	0	0	350.0800	0.01
0	0	0	351.0800	0.01
0	0	0	352.0800	0.01
0	0	0	353.0800	0.02
0	0	0	354.0800	0.01
0	0	0	355.0800	0.01
0	0	0	356.0800	0.01
0	0	0	357.0800	0.01
0	0	0	358.0800	0.01
0	0	0	359.0800	0.01
0	0	0	360.0000	0.01

Comment: Daniels Roadway Control Str# 8

Rating Curve: CS-9

Scenario: Icpr3
Type: Time

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	0.0000	0.00
0	0	0	0.5000	0.00
0	0	0	1.0000	0.00
0	0	0	1.5000	0.00
0	0	0	2.0000	0.00
0	0	0	2.5000	0.00
0	0	0	3.0000	0.00
0	0	0	3.5000	0.00
0	0	0	4.0000	0.00
0	0	0	4.5000	0.00
0	0	0	5.0000	0.00
0	0	0	5.5000	0.01
0	0	0	6.0000	0.01
0	0	0	6.5000	0.01
0	0	0	7.0000	0.01
0	0	0	7.5000	0.01
0	0	0	8.0000	0.01
0	0	0	8.5000	0.02
0	0	0	9.0000	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	9.5000	0.02
0	0	0	10.0000	0.02
0	0	0	10.5000	0.03
0	0	0	11.0000	0.03
0	0	0	11.5000	0.03
0	0	0	12.0000	0.04
0	0	0	12.5000	0.04
0	0	0	13.0000	0.04
0	0	0	13.5000	0.05
0	0	0	14.0000	0.05
0	0	0	14.5000	0.05
0	0	0	15.0000	0.05
0	0	0	15.5000	0.06
0	0	0	16.0000	0.06
0	0	0	16.5000	0.06
0	0	0	17.0000	0.07
0	0	0	17.5000	0.07
0	0	0	18.0000	0.07
0	0	0	18.5000	0.08
0	0	0	19.0000	0.08
0	0	0	19.5000	0.08
0	0	0	20.0000	0.08
0	0	0	20.5000	0.09
0	0	0	21.0000	0.09
0	0	0	21.5000	0.09
0	0	0	22.0000	0.09
0	0	0	22.5000	0.10
0	0	0	23.0000	0.10
0	0	0	23.5000	0.10
0	0	0	24.0000	0.10
0	0	0	24.5000	0.11
0	0	0	25.0000	0.11
0	0	0	25.5000	0.12
0	0	0	26.0000	0.12
0	0	0	26.5000	0.13
0	0	0	27.0000	0.13
0	0	0	27.5000	0.14
0	0	0	28.0000	0.14
0	0	0	28.5000	0.15
0	0	0	29.0000	0.15
0	0	0	29.5000	0.16
0	0	0	30.0000	0.16
0	0	0	30.5000	0.16
0	0	0	31.0000	0.17
0	0	0	31.5000	0.17
0	0	0	32.0000	0.17
0	0	0	32.5000	0.18
0	0	0	33.0000	0.18
0	0	0	33.5000	0.18

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	34.0000	0.19
0	0	0	34.5000	0.19
0	0	0	35.0000	0.19
0	0	0	35.5000	0.19
0	0	0	36.0000	0.20
0	0	0	36.5000	0.20
0	0	0	37.0000	0.20
0	0	0	37.5000	0.20
0	0	0	38.0000	0.21
0	0	0	38.5000	0.21
0	0	0	39.0000	0.21
0	0	0	39.5000	0.21
0	0	0	40.0000	0.21
0	0	0	40.5000	0.21
0	0	0	41.0000	0.22
0	0	0	41.5000	0.22
0	0	0	42.0000	0.22
0	0	0	42.5000	0.22
0	0	0	43.0000	0.22
0	0	0	43.5000	0.22
0	0	0	44.0000	0.22
0	0	0	44.5000	0.22
0	0	0	45.0000	0.22
0	0	0	45.5000	0.22
0	0	0	46.0000	0.22
0	0	0	46.5000	0.23
0	0	0	47.0000	0.23
0	0	0	47.5000	0.23
0	0	0	48.0000	0.23
0	0	0	48.5000	0.23
0	0	0	48.7500	0.23
0	0	0	49.0000	0.23
0	0	0	49.2500	0.23
0	0	0	49.5000	0.23
0	0	0	49.7500	0.23
0	0	0	50.0000	0.24
0	0	0	50.2500	0.23
0	0	0	50.5000	0.24
0	0	0	50.7500	0.24
0	0	0	51.0000	0.24
0	0	0	51.2500	0.25
0	0	0	51.5000	0.25
0	0	0	51.7500	0.25
0	0	0	52.0000	0.25
0	0	0	52.2500	0.26
0	0	0	52.5000	0.27
0	0	0	52.7500	0.27
0	0	0	53.0000	0.27
0	0	0	53.2500	0.28

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	53.5000	0.29
0	0	0	53.7500	0.30
0	0	0	54.0000	0.31
0	0	0	54.2500	0.32
0	0	0	54.5000	0.33
0	0	0	54.7500	0.34
0	0	0	55.0000	0.35
0	0	0	55.2500	0.36
0	0	0	55.4200	0.37
0	0	0	55.5800	0.38
0	0	0	55.7500	0.39
0	0	0	55.9200	0.40
0	0	0	56.0800	0.41
0	0	0	56.2500	0.41
0	0	0	56.4200	0.43
0	0	0	56.5800	0.44
0	0	0	56.7500	0.45
0	0	0	56.9200	0.46
0	0	0	57.0800	0.47
0	0	0	57.2500	0.48
0	0	0	57.4200	0.50
0	0	0	57.5800	0.51
0	0	0	57.7500	0.52
0	0	0	57.9200	0.54
0	0	0	58.0800	0.55
0	0	0	58.2500	0.57
0	0	0	58.4200	0.59
0	0	0	58.5800	0.61
0	0	0	58.7500	0.63
0	0	0	58.9200	0.66
0	0	0	59.0800	0.69
0	0	0	59.2500	0.73
0	0	0	59.4200	0.78
0	0	0	59.5800	0.88
0	0	0	59.7500	2.96
0	0	0	59.9200	6.77
0	0	0	60.0800	9.89
0	0	0	60.2500	9.58
0	0	0	60.4200	8.25
0	0	0	60.5800	7.11
0	0	0	60.7500	5.99
0	0	0	60.9200	5.07
0	0	0	61.0800	4.37
0	0	0	61.3300	3.52
0	0	0	61.5800	2.92
0	0	0	61.8300	2.48
0	0	0	62.0800	2.14
0	0	0	62.3300	1.84
0	0	0	62.5800	1.61

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	62.8300	1.41
0	0	0	63.0800	1.27
0	0	0	63.3300	1.15
0	0	0	63.5800	1.07
0	0	0	63.8300	0.99
0	0	0	64.0800	0.93
0	0	0	64.3300	0.83
0	0	0	64.5800	0.73
0	0	0	64.8300	0.65
0	0	0	65.0800	0.58
0	0	0	65.3300	0.51
0	0	0	65.5800	0.44
0	0	0	65.8300	0.46
0	0	0	66.0800	0.39
0	0	0	66.3300	0.33
0	0	0	66.5800	0.38
0	0	0	66.8300	0.30
0	0	0	67.0800	0.37
0	0	0	67.3300	0.27
0	0	0	67.5800	0.36
0	0	0	67.8300	0.42
0	0	0	68.0800	0.28
0	0	0	68.3300	0.32
0	0	0	68.5800	0.33
0	0	0	68.8300	0.08
0	0	0	69.0800	0.22
0	0	0	69.3300	0.29
0	0	0	69.5800	0.32
0	0	0	69.8300	0.04
0	0	0	70.0800	0.22
0	0	0	70.3300	0.29
0	0	0	70.5800	0.32
0	0	0	70.8300	0.02
0	0	0	71.0800	0.22
0	0	0	71.3300	0.30
0	0	0	71.5800	0.33
0	0	0	71.8300	0.34
0	0	0	72.0800	0.33
0	0	0	73.0800	-0.13
0	0	0	74.0800	0.00
0	0	0	75.0800	0.00
0	0	0	76.0800	0.00
0	0	0	77.0800	0.00
0	0	0	78.0800	0.00
0	0	0	79.0800	0.13
0	0	0	80.0800	0.00
0	0	0	81.0800	0.00
0	0	0	82.0800	0.00
0	0	0	83.0800	0.13

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	84.0800	0.00
0	0	0	85.0800	0.00
0	0	0	86.0800	0.00
0	0	0	87.0800	0.13
0	0	0	88.0800	0.00
0	0	0	89.0800	0.00
0	0	0	90.0800	0.13
0	0	0	91.0800	0.00
0	0	0	92.0800	0.00
0	0	0	93.0800	0.00
0	0	0	94.0800	0.13
0	0	0	95.0800	0.00
0	0	0	96.0800	0.00
0	0	0	97.0800	0.12
0	0	0	98.0800	0.00
0	0	0	99.0800	0.00
0	0	0	100.0800	0.00
0	0	0	101.0800	0.12
0	0	0	102.0800	0.01
0	0	0	103.0800	0.00
0	0	0	104.0800	0.11
0	0	0	105.0800	0.01
0	0	0	106.0800	0.00
0	0	0	107.0800	0.00
0	0	0	108.0800	0.10
0	0	0	109.0800	0.02
0	0	0	110.0800	0.00
0	0	0	111.0800	0.00
0	0	0	112.0800	0.09
0	0	0	113.0800	0.03
0	0	0	114.0800	0.01
0	0	0	115.0800	0.00
0	0	0	116.0800	0.07
0	0	0	117.0800	0.03
0	0	0	118.0800	0.01
0	0	0	119.0800	0.01
0	0	0	120.0800	0.06
0	0	0	121.0800	0.03
0	0	0	122.0800	0.02
0	0	0	123.0800	0.07
0	0	0	124.0800	0.04
0	0	0	125.0800	0.02
0	0	0	126.0800	0.01
0	0	0	127.0800	0.07
0	0	0	128.0800	0.04
0	0	0	129.0800	0.02
0	0	0	130.0800	0.01
0	0	0	131.0800	0.06
0	0	0	132.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	133.0800	0.02
0	0	0	134.0800	0.01
0	0	0	135.0800	0.06
0	0	0	136.0800	0.04
0	0	0	137.0800	0.02
0	0	0	138.0800	0.01
0	0	0	139.0800	0.06
0	0	0	140.0800	0.04
0	0	0	141.0800	0.02
0	0	0	142.0800	0.01
0	0	0	143.0800	0.06
0	0	0	144.0800	0.04
0	0	0	145.0800	0.02
0	0	0	146.0800	0.01
0	0	0	147.0800	0.06
0	0	0	148.0800	0.04
0	0	0	149.0800	0.02
0	0	0	150.0800	0.01
0	0	0	151.0800	0.06
0	0	0	152.0800	0.04
0	0	0	153.0800	0.02
0	0	0	154.0800	0.07
0	0	0	155.0800	0.04
0	0	0	156.0800	0.02
0	0	0	157.0800	0.01
0	0	0	158.0800	0.06
0	0	0	159.0800	0.04
0	0	0	160.0800	0.02
0	0	0	161.0800	0.01
0	0	0	162.0800	0.06
0	0	0	163.0800	0.03
0	0	0	164.0800	0.02
0	0	0	165.0800	0.01
0	0	0	166.0800	0.06
0	0	0	167.0800	0.03
0	0	0	168.0800	0.02
0	0	0	169.0800	0.01
0	0	0	170.0800	0.06
0	0	0	171.0800	0.03
0	0	0	172.0800	0.02
0	0	0	173.0800	0.01
0	0	0	174.0800	0.06
0	0	0	175.0800	0.03
0	0	0	176.0800	0.02
0	0	0	177.0800	0.01
0	0	0	178.0800	0.06
0	0	0	179.0800	0.03
0	0	0	180.0800	0.02
0	0	0	181.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	182.0800	0.06
0	0	0	183.0800	0.03
0	0	0	184.0800	0.02
0	0	0	185.0800	0.01
0	0	0	186.0800	0.06
0	0	0	187.0800	0.03
0	0	0	188.0800	0.02
0	0	0	189.0800	0.06
0	0	0	190.0800	0.04
0	0	0	191.0800	0.02
0	0	0	192.0800	0.01
0	0	0	193.0800	0.06
0	0	0	194.0800	0.03
0	0	0	195.0800	0.02
0	0	0	196.0800	0.01
0	0	0	197.0800	0.06
0	0	0	198.0800	0.03
0	0	0	199.0800	0.02
0	0	0	200.0800	0.01
0	0	0	201.0800	0.06
0	0	0	202.0800	0.03
0	0	0	203.0800	0.02
0	0	0	204.0800	0.01
0	0	0	205.0800	0.06
0	0	0	206.0800	0.03
0	0	0	207.0800	0.02
0	0	0	208.0800	0.01
0	0	0	209.0800	0.06
0	0	0	210.0800	0.03
0	0	0	211.0800	0.02
0	0	0	212.0800	0.01
0	0	0	213.0800	0.06
0	0	0	214.0800	0.03
0	0	0	215.0800	0.02
0	0	0	216.0800	0.01
0	0	0	217.0800	0.06
0	0	0	218.0800	0.03
0	0	0	219.0800	0.02
0	0	0	220.0800	0.01
0	0	0	221.0800	0.05
0	0	0	222.0800	0.03
0	0	0	223.0800	0.02
0	0	0	224.0800	0.06
0	0	0	225.0800	0.04
0	0	0	226.0800	0.02
0	0	0	227.0800	0.01
0	0	0	228.0800	0.05
0	0	0	229.0800	0.03
0	0	0	230.0800	0.02

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	231.0800	0.01
0	0	0	232.0800	0.05
0	0	0	233.0800	0.03
0	0	0	234.0800	0.02
0	0	0	235.0800	0.01
0	0	0	236.0800	0.05
0	0	0	237.0800	0.03
0	0	0	238.0800	0.02
0	0	0	239.0800	0.01
0	0	0	240.0800	0.05
0	0	0	241.0800	0.03
0	0	0	242.0800	0.02
0	0	0	243.0800	0.01
0	0	0	244.0800	0.05
0	0	0	245.0800	0.03
0	0	0	246.0800	0.02
0	0	0	247.0800	0.01
0	0	0	248.0800	0.05
0	0	0	249.0800	0.03
0	0	0	250.0800	0.02
0	0	0	251.0800	0.01
0	0	0	252.0800	0.05
0	0	0	253.0800	0.03
0	0	0	254.0800	0.02
0	0	0	255.0800	0.01
0	0	0	256.0800	0.05
0	0	0	257.0800	0.03
0	0	0	258.0800	0.02
0	0	0	259.0800	0.01
0	0	0	260.0800	0.05
0	0	0	261.0800	0.03
0	0	0	262.0800	0.02
0	0	0	263.0800	0.01
0	0	0	264.0800	0.05
0	0	0	265.0800	0.03
0	0	0	266.0800	0.02
0	0	0	267.0800	0.01
0	0	0	268.0800	0.05
0	0	0	269.0800	0.03
0	0	0	270.0800	0.02
0	0	0	271.0800	0.01
0	0	0	272.0800	0.05
0	0	0	273.0800	0.03
0	0	0	274.0800	0.02
0	0	0	275.0800	0.01
0	0	0	276.0800	0.05
0	0	0	277.0800	0.03
0	0	0	278.0800	0.02
0	0	0	279.0800	0.01

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	280.0800	0.05
0	0	0	281.0800	0.03
0	0	0	282.0800	0.02
0	0	0	283.0800	0.01
0	0	0	284.0800	0.05
0	0	0	285.0800	0.03
0	0	0	286.0800	0.02
0	0	0	287.0800	0.01
0	0	0	288.0800	0.04
0	0	0	289.0800	0.03
0	0	0	290.0800	0.02
0	0	0	291.0800	0.01
0	0	0	292.0800	0.04
0	0	0	293.0800	0.03
0	0	0	294.0800	0.02
0	0	0	295.0800	0.01
0	0	0	296.0800	0.04
0	0	0	297.0800	0.03
0	0	0	298.0800	0.02
0	0	0	299.0800	0.01
0	0	0	300.0800	0.04
0	0	0	301.0800	0.03
0	0	0	302.0800	0.02
0	0	0	303.0800	0.01
0	0	0	304.0800	0.04
0	0	0	305.0800	0.03
0	0	0	306.0800	0.02
0	0	0	307.0800	0.01
0	0	0	308.0800	0.04
0	0	0	309.0800	0.03
0	0	0	310.0800	0.02
0	0	0	311.0800	0.01
0	0	0	312.0800	0.04
0	0	0	313.0800	0.03
0	0	0	314.0800	0.02
0	0	0	315.0800	0.02
0	0	0	316.0800	0.04
0	0	0	317.0800	0.03
0	0	0	318.0800	0.02
0	0	0	319.0800	0.02
0	0	0	320.0800	0.04
0	0	0	321.0800	0.03
0	0	0	322.0800	0.02
0	0	0	323.0800	0.02
0	0	0	324.0800	0.04
0	0	0	325.0800	0.03
0	0	0	326.0800	0.02
0	0	0	327.0800	0.02
0	0	0	328.0800	0.04

Year	Month	Day	Hour [hr]	Discharge [cfs]
0	0	0	329.0800	0.03
0	0	0	330.0800	0.02
0	0	0	331.0800	0.02
0	0	0	332.0800	0.04
0	0	0	333.0800	0.03
0	0	0	334.0800	0.02
0	0	0	335.0800	0.02
0	0	0	336.0800	0.03
0	0	0	337.0800	0.03
0	0	0	338.0800	0.02
0	0	0	339.0800	0.02
0	0	0	340.0800	0.03
0	0	0	341.0800	0.03
0	0	0	342.0800	0.02
0	0	0	343.0800	0.02
0	0	0	344.0800	0.01
0	0	0	345.0800	0.03
0	0	0	346.0800	0.03
0	0	0	347.0800	0.02
0	0	0	348.0800	0.02
0	0	0	349.0800	0.03
0	0	0	350.0800	0.03
0	0	0	351.0800	0.02
0	0	0	352.0800	0.02
0	0	0	353.0800	0.03
0	0	0	354.0800	0.03
0	0	0	355.0800	0.02
0	0	0	356.0800	0.02
0	0	0	357.0800	0.03
0	0	0	358.0800	0.03
0	0	0	359.0800	0.02
0	0	0	360.0000	0.02

Comment: Daniels Roadway Control Str# 9

Boundary Stage: EB Outfall

Boundary Stage Set: 10yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	24.84
0	0	0	19.6000	24.94
0	0	0	312.0000	24.84
0	0	0	9999.0000	24.84

Comment:

Boundary Stage: TC Outfall

Boundary Stage Set: 10yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	19.6000	25.10
0	0	0	336.0000	25.00

Comment:

Boundary Stage: EB Outfall

Boundary Stage Set: 2.33yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	24.84
0	0	0	24.0000	24.94
0	0	0	336.0000	24.84

Comment:

Boundary Stage: TC Outfall

Boundary Stage Set: 2.33yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	19.6000	25.10
0	0	0	336.0000	25.00

Comment:

Boundary Stage: EB Outfall

Boundary Stage Set: 25yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	24.84
0	0	0	30.0000	24.94
0	0	0	60.0000	25.34
0	0	0	73.0000	25.92
0	0	0	240.0000	25.36
0	0	0	360.0000	24.96
0	0	0	9999.0000	24.84

Comment:

Boundary Stage: TC Outfall

Boundary Stage Set: 25yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	30.0000	25.10
0	0	0	60.0000	25.50
0	0	0	73.0000	26.08
0	0	0	240.0000	25.52
0	0	0	360.0000	25.14
0	0	0	999.0000	25.00

Comment:

Boundary Stage: EB Outfall

Boundary Stage Set: 5yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	24.84
0	0	0	19.6000	24.94
0	0	0	336.0000	24.84

Comment:

Boundary Stage: TC Outfall

Boundary Stage Set: 5yr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	19.6000	25.10
0	0	0	336.0000	25.00

Comment:

APPENDIX I- PROPOSED CONDITIONS NODE MAX

Node Max Conditions [Icpr3]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
AirportBasin11	100Y3D	9999.00	26.06	0.0001	661.41	20.83	0
BASIN 1	100Y3D	9999.00	28.38	0.0004	43.36	2.35	196919
BASIN 10	100Y3D	9999.00	28.67	0.0003	261.07	0.00	1142249
BASIN 11	100Y3D	9999.00	28.38	0.0006	207.56	21.76	637683
BASIN 12	100Y3D	9999.00	28.38	0.0005	199.70	0.00	983915
BASIN 13	100Y3D	9999.00	28.44	0.0003	405.73	7.40	1776765
BASIN 14	100Y3D	9999.00	28.45	0.0003	380.66	5.20	1656301
BASIN 2	100Y3D	9999.00	28.38	0.0004	57.23	1.68	263698
BASIN 3	100Y3D	9999.00	28.38	0.0004	247.28	2.97	1140089
BASIN 4	100Y3D	9999.00	28.38	0.0004	136.53	9.14	616852
BASIN 5	100Y3D	9999.00	28.38	0.0004	148.16	2.98	688645
BASIN 6	100Y3D	9999.00	28.38	0.0004	124.24	6.37	571493
BASIN 7	100Y3D	9999.00	28.38	0.0004	346.54	6.47	1601090
BASIN 8	100Y3D	9999.00	28.38	0.0004	456.19	0.19	2156834
BASIN 9	100Y3D	9999.00	28.38	0.0005	301.92	11.50	1437893
BASIN C1	100Y3D	9999.00	28.62	0.0004	321.59	2.22	1302690
DP DMY 1	100Y3D	9999.00	26.03	0.0002	2.17	1.21	13460
DUMMY 1	100Y3D	9999.00	25.54	-0.0009	10.91	10.94	2192
DUMMY 2	100Y3D	9999.00	25.52	-0.0009	10.94	11.04	2292
Daniels Road	100Y3D	9999.00	9999.00	0.0000	0.98	75.03	0
EB OUTFALL DUMMY	100Y3D	9999.00	24.97	-0.0039	78.95	79.63	182
EB TAILWATER	100Y3D	9999.00	24.84	0.0000	480.75	0.02	0
PRESERVE 1	100Y3D	9999.00	25.73	0.0001	230.52	132.22	2878768
Swale N2	100Y3D	9999.00	25.93	0.0002	24.04	23.73	25970
Swale N3	100Y3D	9999.00	25.76	-0.0003	28.18	28.17	28474
Swale N4	100Y3D	9999.00	25.16	-0.0009	41.16	41.07	15383
TC COMMERCIAL	100Y3D	9999.00	26.03	0.0003	265.83	24.18	1538825
TC TAILWATER	100Y3D	9999.00	25.00	0.0000	69.59	0.24	0
WETLAND 1	100Y3D	9999.00	26.12	0.0001	186.44	17.86	2802763
WETLAND 2	100Y3D	9999.00	26.12	0.0001	430.26	51.09	8442240
WETLAND 3	100Y3D	9999.00	25.85	0.0001	61.25	48.60	496266
WETLAND 4	100Y3D	9999.00	25.84	-0.0010	77.61	36.86	686386
WETLAND 5	100Y3D	9999.00	25.80	0.0002	272.10	138.64	2716177
WETLAND 6	100Y3D	9999.00	25.79	0.0001	320.25	208.65	2624597
WETLAND 7	100Y3D	9999.00	25.75	0.0001	360.02	267.56	2764043
WETLAND 8	100Y3D	9999.00	25.49	0.0001	484.10	469.96	4628358
AirportBasin11	10Y1D	9999.00	26.06	0.0001	447.09	47.07	0
BASIN 1	10Y1D	9999.00	27.13	0.0002	26.36	4.17	69779
BASIN 10	10Y1D	9999.00	27.65	0.0004	159.73	2.09	1142249
BASIN 11	10Y1D	9999.00	26.97	0.0002	129.77	19.56	343583

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
BASIN 12	10Y1D	9999.00	26.96	0.0002	123.54	1.93	612986
BASIN 13	10Y1D	9999.00	27.55	0.0003	255.78	10.78	1776765
BASIN 14	10Y1D	9999.00	27.56	0.0003	233.10	18.11	1656301
BASIN 2	10Y1D	9999.00	27.14	0.0002	36.18	2.94	120556
BASIN 3	10Y1D	9999.00	27.13	0.0002	161.98	7.31	506513
BASIN 4	10Y1D	9999.00	27.13	0.0002	83.06	15.10	197246
BASIN 5	10Y1D	9999.00	27.12	0.0002	91.68	5.34	285814
BASIN 6	10Y1D	9999.00	27.12	0.0002	75.24	10.35	206247
BASIN 7	10Y1D	9999.00	27.13	0.0002	223.97	14.65	656555
BASIN 8	10Y1D	9999.00	27.11	0.0002	296.79	10.12	995693
BASIN 9	10Y1D	9999.00	27.09	0.0002	179.90	24.40	460582
BASIN C1	10Y1D	9999.00	27.75	0.0004	199.45	3.01	1302690
DP DMY 1	10Y1D	9999.00	25.65	0.0000	1.07	0.31	11326
DUMMY 1	10Y1D	9999.00	25.52	-0.0009	4.28	9.15	2173
DUMMY 2	10Y1D	9999.00	25.51	-0.0009	4.19	4.28	2279
Daniels Road	10Y1D	9999.00	9999.00	0.0000	0.98	75.03	0
EB OUTFALL DUMMY	10Y1D	9999.00	25.03	0.0035	68.01	68.52	180
EB TAILWATER	10Y1D	9999.00	24.94	0.0000	197.09	8.69	0
PRESERVE 1	10Y1D	9999.00	25.54	0.0001	143.91	67.46	2731247
Swale N2	10Y1D	9999.00	25.61	0.0004	14.84	14.77	23491
Swale N3	10Y1D	9999.00	25.49	0.0003	18.07	18.04	26367
Swale N4	10Y1D	9999.00	25.14	-0.0001	25.76	25.75	15042
TC COMMERCIAL	10Y1D	9999.00	25.65	0.0002	151.95	11.48	1267865
TC TAILWATER	10Y1D	9999.00	25.10	0.0000	53.07	0.34	0
WETLAND 1	10Y1D	9999.00	25.81	0.0000	120.40	21.00	2770765
WETLAND 2	10Y1D	9999.00	25.80	0.0000	276.12	66.54	8166691
WETLAND 3	10Y1D	9999.00	25.80	0.0001	35.94	25.89	493031
WETLAND 4	10Y1D	9999.00	25.67	-0.0004	48.34	36.86	606346
WETLAND 5	10Y1D	9999.00	25.63	0.0001	181.17	148.47	2498541
WETLAND 6	10Y1D	9999.00	25.62	0.0001	266.32	141.81	2587696
WETLAND 7	10Y1D	9999.00	25.57	0.0001	239.50	157.52	2703281
WETLAND 8	10Y1D	9999.00	25.39	0.0001	252.09	195.65	4573687
AirportBasin11	25Y3D	9999.00	26.06	0.0001	502.72	7.13	0
BASIN 1	25Y3D	9999.00	27.79	0.0001	32.90	4.44	196919
BASIN 10	25Y3D	9999.00	28.07	0.0001	198.26	2.30	1142249
BASIN 11	25Y3D	9999.00	27.66	0.0001	162.25	25.52	637683
BASIN 12	25Y3D	9999.00	27.67	0.0001	155.89	2.37	983915
BASIN 13	25Y3D	9999.00	27.93	0.0001	308.91	8.78	1776765
BASIN 14	25Y3D	9999.00	27.92	0.0001	289.11	14.29	1656301
BASIN 2	25Y3D	9999.00	27.79	0.0001	46.37	3.34	263698
BASIN 3	25Y3D	9999.00	27.79	0.0001	202.69	8.22	1140089
BASIN 4	25Y3D	9999.00	27.78	0.0001	103.61	18.36	616852

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
BASIN 5	25Y3D	9999.00	27.78	0.0001	114.88	6.06	688645
BASIN 6	25Y3D	9999.00	27.78	0.0001	94.12	12.82	571493
BASIN 7	25Y3D	9999.00	27.78	0.0001	277.34	9.94	1601090
BASIN 8	25Y3D	9999.00	27.77	0.0001	371.13	11.05	2156834
BASIN 9	25Y3D	9999.00	27.74	0.0001	224.68	29.37	1437893
BASIN C1	25Y3D	9999.00	28.18	0.0001	244.63	2.72	1302690
DP DMY 1	25Y3D	9999.00	26.08	0.0000	1.79	0.74	13721
DUMMY 1	25Y3D	9999.00	25.92	-0.0001	9.01	9.16	2522
DUMMY 2	25Y3D	9999.00	25.92	-0.0001	9.02	9.02	2630
Daniels Road	25Y3D	9999.00	9999.00	0.0000	0.98	75.03	0
EB OUTFALL DUMMY	25Y3D	9999.00	25.92	0.0001	19.26	19.57	179
EB TAILWATER	25Y3D	9999.00	25.92	0.0001	352.56	146.41	0
PRESERVE 1	25Y3D	9999.00	25.92	0.0001	184.22	108.03	2953971
Swale N2	25Y3D	9999.00	26.07	0.0001	20.41	20.08	27122
Swale N3	25Y3D	9999.00	26.07	0.0001	21.87	21.44	31967
Swale N4	25Y3D	9999.00	26.08	0.0001	33.18	32.95	19845
TC COMMERCIAL	25Y3D	9999.00	26.07	0.0001	206.72	20.60	1557849
TC TAILWATER	25Y3D	9999.00	26.08	0.0001	56.60	9.70	0
WETLAND 1	25Y3D	9999.00	26.09	0.0000	152.65	15.37	2800156
WETLAND 2	25Y3D	9999.00	26.07	0.0000	331.88	28.05	8415015
WETLAND 3	25Y3D	9999.00	25.93	0.0000	46.46	34.89	499720
WETLAND 4	25Y3D	9999.00	25.93	-0.0001	59.13	36.86	714616
WETLAND 5	25Y3D	9999.00	25.93	0.0001	218.63	112.52	2860066
WETLAND 6	25Y3D	9999.00	25.92	0.0001	260.54	167.29	2644454
WETLAND 7	25Y3D	9999.00	25.92	0.0001	290.53	219.24	2814944
WETLAND 8	25Y3D	9999.00	25.92	0.0001	380.52	343.20	4810443

APPENDIX J-PROPOSED CONDITIONS LINK MAX

Link Min/Max Conditions [Icpr3]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
CH-DMY1-DMY2	100Y3D	10.94	-4.28	1.03	0.61	0.51	0.56
CH-SW1-SW2	100Y3D	23.23	-0.42	-0.28	0.67	0.74	0.71
CH-SWN2-SWN3	100Y3D	23.73	0.00	0.58	0.72	0.81	0.76
CH-SWN3-SWN4	100Y3D	28.17	0.00	-0.69	0.96	1.54	1.25
CH-SWN4-TC OUTFALL	100Y3D	41.07	0.00	1.00	2.18	2.50	2.34
CH-WETLAND 1-DP DMY 1	100Y3D	1.11	-0.74	0.01	0.16	1.32	0.73
CS1-DRD-N3	100Y3D	7.47	-0.10	0.01	0.00	0.00	0.00
CS1-DRD-N4	100Y3D	13.07	-0.17	0.01	0.00	0.00	0.00
CS1-DRD-TC COM	100Y3D	6.79	-0.09	0.01	0.00	0.00	0.00
CS1-DRD-TC OUTFALL	100Y3D	3.26	-0.04	0.00	0.00	0.00	0.00
CS1-DS1-DRD	100Y3D	9.89	-0.13	0.01	0.00	0.00	0.00
CS2-DRD-TC COM	100Y3D	6.79	-0.09	0.01	0.00	0.00	0.00
CS2-DRD-TC OUTFALL	100Y3D	5.05	-0.07	0.00	0.00	0.00	0.00
CS2-DS1-DRD	100Y3D	8.33	-0.11	0.01	0.00	0.00	0.00
CS3-DRD-TC COM	100Y3D	4.48	-0.06	0.00	0.00	0.00	0.00
CS3-DRD-TC OUTFALL	100Y3D	9.89	-0.13	0.01	0.00	0.00	0.00
DS-BASIN 10-WETLAND 1 - Pipe	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 10-WETLAND 1 - Weir: 1	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 10-WETLAND 1 - Weir: 2	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 10-WETLAND 1 - Weir: 3	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 11-WETLAND 6 - Pipe	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 11-WETLAND 6 - Weir: 1	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
11-WETLAND 6 - Weir: 2							
DS-BASIN 14-WETLAND 7 - Pipe	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 14-WETLAND 7 - Weir: 1	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 14-WETLAND 7 - Weir: 2	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 8-WETLAND 1 - Pipe	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 8-WETLAND 1 - Weir: 1	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 8-WETLAND 1 - Weir: 2	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 9-WETLAND 5 - Pipe	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 9-WETLAND 5 - Weir: 1	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 9-WETLAND 5 - Weir: 2	100Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN C1-BASIN 2 - Pipe	100Y3D	2.22	0.00	0.00	0.00	0.00	0.00
DS-BASIN C1-BASIN 2 - Weir: 1	100Y3D	2.22	0.00	0.00	3.60	3.60	3.60
DS-DMY2-EB TW - Pipe	100Y3D	10.97	0.00	0.18	0.00	0.00	0.00
DS-DMY2-EB TW - Weir: 1	100Y3D	11.04	0.00	-0.22	0.00	0.00	0.00
DS-DP DMY 1-TC COMMERCIAL - Pipe	100Y3D	1.21	-2.17	0.05	0.00	0.00	0.00
DS-DP DMY 1-TC COMMERCIAL - Weir: 1	100Y3D	1.21	-2.17	0.10	0.02	0.02	0.02

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
DS-WETLAND 1-SWALE N2 - Pipe	100Y3D	8.06	-4.34	-0.08	0.00	0.00	0.00
DS-WETLAND 1-SWALE N2 - Weir: 1	100Y3D	8.07	-4.34	-0.11	0.01	0.01	0.01
DS-WETLAND 1-SWALE N3 - Pipe	100Y3D	4.04	-0.90	0.03	0.00	0.00	0.00
DS-WETLAND 1-SWALE N3 - Weir: 1	100Y3D	4.05	-0.90	0.04	0.01	0.01	0.01
DS-WETLAND 2-SWALE N4 - Pipe	100Y3D	5.59	0.00	0.18	0.00	0.00	0.00
DS-WETLAND 2-SWALE N4 - Weir: 1	100Y3D	5.59	0.00	0.31	0.01	0.01	0.01
DS-WETLAND 2-WETLAND 5 - Pipe	100Y3D	4.39	0.00	-0.01	0.00	0.00	0.00
DS-WETLAND 2-WETLAND 5 - Weir: 1	100Y3D	4.39	0.00	-0.01	1.35	1.35	1.35
DS1-WETLAND 2-AIRPORT BASIN 11 - Pipe	100Y3D	5.56	-4.97	-0.05	0.00	0.00	0.00
DS1-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	100Y3D	5.56	-4.97	-0.06	-0.07	-0.07	-0.07
DS1-WETLAND 2-TIMBER CREEK OUTFALL - Pipe	100Y3D	6.63	0.00	0.28	0.00	0.00	0.00
DS1-WETLAND 2-TIMBER CREEK OUTFALL - Weir: 1	100Y3D	6.64	0.00	-0.31	0.01	0.01	0.01
DS2-WETLAND 2-AIRPORT BASIN 11 - Pipe	100Y3D	5.87	-5.24	-0.05	0.00	0.00	0.00
DS2-WETLAN	100Y3D	5.87	-5.24	-0.07	-0.07	-0.07	-0.07

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
D 2-AIRPORT BASIN 11 - Weir: 1							
DS2-WETLAND 2-TIMBER CREEK OUTFALL - Pipe	100Y3D	9.76	0.00	0.49	0.00	0.00	0.00
DS2-WETLAND 2-TIMBER CREEK OUTFALL - Weir: 1	100Y3D	9.77	0.00	0.67	0.01	0.01	0.01
DS3-WETLAND 2-AIRPORT BASIN 11 - Pipe	100Y3D	5.93	-5.30	-0.05	0.00	0.00	0.00
DS3-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	100Y3D	5.93	-5.30	-0.07	-0.07	-0.07	-0.07
DS4-WETLAND 2-AIRPORT BASIN 11 - Pipe	100Y3D	5.98	-5.34	-0.05	0.00	0.00	0.00
DS4-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	100Y3D	5.98	-5.34	-0.07	-0.07	-0.07	-0.07
OW-PRESERVE 1-WETLAND 8	100Y3D	121.31	0.00	0.03	2.08	2.08	2.08
OW-PRESERVE 1-W7	100Y3D	0.00	-71.81	0.04	-1.40	-1.40	-1.40
OW-W3-W5	100Y3D	48.60	0.00	-0.07	1.01	1.01	1.01
OW-W5-W6	100Y3D	138.64	0.00	0.07	0.80	0.80	0.80
OW-W6-W7	100Y3D	208.65	0.00	0.08	1.72	1.72	1.72
OW-W7-EB TW DMY	100Y3D	391.01	0.00	0.21	1.20	1.20	1.20
OW-W7-W8	100Y3D	225.74	0.00	0.07	1.81	1.81	1.81
P-BASIN 1-BASIN 3	100Y3D	2.35	-0.10	-0.04	0.48	0.48	0.48
P-BASIN 11-BASIN 9	100Y3D	5.30	-4.86	0.03	0.75	0.75	0.75
P-BASIN 12-BASIN 11	100Y3D	0.00	-16.47	0.03	-2.33	-2.33	-2.33
P-BASIN	100Y3D	7.40	-0.12	-0.04	1.05	1.05	1.05

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
13-BASIN 7							
P-BASIN 14-BASIN 13	100Y3D	5.20	-0.06	-0.06	0.74	0.74	0.74
P-BASIN 2-BASIN 3	100Y3D	1.68	-0.01	-0.04	0.24	0.24	0.24
P-BASIN 3-BASIN 4	100Y3D	0.30	-5.16	0.04	-0.73	-0.73	-0.73
P-BASIN 3-BASIN 5	100Y3D	2.00	0.00	-0.06	0.28	0.28	0.28
P-BASIN 3-BASIN 6	100Y3D	1.13	-1.69	0.04	-0.24	-0.24	-0.24
P-BASIN 4-BASIN 7	100Y3D	3.98	-0.33	-0.17	0.56	0.56	0.56
P-BASIN 5-BASIN 8	100Y3D	2.98	-0.03	-0.10	0.42	0.42	0.42
P-BASIN 6-BASIN 8	100Y3D	4.69	0.00	-0.07	0.66	0.66	0.66
P-BASIN 7-BASIN 8	100Y3D	5.15	-0.02	-0.03	0.73	0.73	0.73
P-BASIN 7-BASIN 9	100Y3D	2.79	-1.04	0.10	0.39	0.39	0.39
P-BASIN 8-BASIN 9	100Y3D	0.19	-5.61	0.03	-0.79	-0.79	-0.79
P-EB OUTFALL-EB TW	100Y3D	79.63	-0.02	-9.52	3.19	3.21	3.20
P-WETLAND 1-WETLAND 2	100Y3D	13.41	-9.60	0.17	1.42	1.42	1.42
P-WETLAND 4-WETLAND 5	100Y3D	36.86	0.00	-0.57	2.93	2.93	2.93
P-WETLAND 5-DMY1	100Y3D	10.91	-9.15	0.20	3.47	3.47	3.47
P1-W7-EB TW DMY	100Y3D	20.34	0.00	1.34	3.36	5.07	4.21
P2-W7-EB TW DMY	100Y3D	13.42	0.00	0.80	2.85	4.69	3.77
P3-DS-W7-EB TW DMY	100Y3D	9.20	0.00	0.67	5.21	5.21	5.21
P4-W7-EB TW DMY	100Y3D	18.01	0.00	1.26	5.73	5.73	5.73
P5-W7-EB TW DMY	100Y3D	18.02	0.00	1.26	5.74	5.74	5.74
CH-DMY1-DMY2	10Y1D	4.19	-4.28	0.80	-0.26	-0.33	-0.30
CH-SW1-SW2	10Y1D	11.28	-5.29	0.11	0.42	0.44	0.43

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
CH-SWN2-SWN3	10Y1D	14.77	-0.34	0.10	0.56	0.61	0.58
CH-SWN3-SWN4	10Y1D	18.04	-0.32	-0.06	0.74	0.99	0.86
CH-SWN4-TC OUTFALL	10Y1D	25.75	-0.34	-0.37	1.39	1.45	1.42
CH-WETLAND 1-DP DMY 1	10Y1D	0.28	-0.02	0.00	0.08	0.39	0.23
CS1-DRD-N3	10Y1D	7.47	-0.10	0.00	0.00	0.00	0.00
CS1-DRD-N4	10Y1D	13.07	-0.17	-0.01	0.00	0.00	0.00
CS1-DRD-TC COM	10Y1D	6.80	-0.09	0.00	0.00	0.00	0.00
CS1-DRD-TC OUTFALL	10Y1D	3.26	-0.04	0.00	0.00	0.00	0.00
CS1-DS1-DRD	10Y1D	9.89	-0.13	-0.01	0.00	0.00	0.00
CS2-DRD-TC COM	10Y1D	6.80	-0.09	0.00	0.00	0.00	0.00
CS2-DRD-TC OUTFALL	10Y1D	5.05	-0.07	0.00	0.00	0.00	0.00
CS2-DS1-DRD	10Y1D	8.33	-0.11	0.00	0.00	0.00	0.00
CS3-DRD-TC COM	10Y1D	4.48	-0.06	0.00	0.00	0.00	0.00
CS3-DRD-TC OUTFALL	10Y1D	9.89	-0.13	-0.01	0.00	0.00	0.00
DS-BASIN 10-WETLAND 1 - Pipe	10Y1D	2.09	0.00	0.00	0.00	0.00	0.00
DS-BASIN 10-WETLAND 1 - Weir: 1	10Y1D	1.16	0.00	0.00	6.75	6.75	6.75
DS-BASIN 10-WETLAND 1 - Weir: 2	10Y1D	0.96	0.00	0.00	4.82	4.82	4.82
DS-BASIN 10-WETLAND 1 - Weir: 3	10Y1D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 11-WETLAND 6 - Pipe	10Y1D	4.87	0.00	0.00	0.00	0.00	0.00
DS-BASIN 11-WETLAND 6 - Weir: 1	10Y1D	4.87	0.00	0.00	3.62	3.62	3.62
DS-BASIN 11-WETLAND 6 - Weir: 2	10Y1D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 14-WETLAND	10Y1D	6.97	0.00	0.00	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
7 - Pipe							
DS-BASIN 14-WETLAND 7 - Weir: 1	10Y1D	6.97	0.00	0.00	5.18	5.18	5.18
DS-BASIN 14-WETLAND 7 - Weir: 2	10Y1D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 8-WETLAND 1 - Pipe	10Y1D	4.63	0.00	0.00	0.00	0.00	0.00
DS-BASIN 8-WETLAND 1 - Weir: 1	10Y1D	4.63	0.00	0.00	5.74	5.74	5.74
DS-BASIN 8-WETLAND 1 - Weir: 2	10Y1D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 9-WETLAND 5 - Pipe	10Y1D	7.49	0.00	0.00	0.00	0.00	0.00
DS-BASIN 9-WETLAND 5 - Weir: 1	10Y1D	7.49	0.00	0.00	5.57	5.57	5.57
DS-BASIN 9-WETLAND 5 - Weir: 2	10Y1D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN C1-BASIN 2 - Pipe	10Y1D	3.01	0.00	-0.09	0.00	0.00	0.00
DS-BASIN C1-BASIN 2 - Weir: 1	10Y1D	3.01	0.00	-0.19	4.87	4.87	4.87
DS-DMY2-EB TW - Pipe	10Y1D	4.04	0.00	-0.11	0.00	0.00	0.00
DS-DMY2-EB TW - Weir: 1	10Y1D	4.09	0.00	-0.20	0.00	0.00	0.00
DS-DP DMY 1-TC COMMERCIAL - Pipe	10Y1D	0.31	-1.06	0.03	0.00	0.00	0.00
DS-DP DMY 1-TC COMMERCIAL - Weir: 1	10Y1D	0.31	-1.06	0.06	-0.02	-0.02	-0.02
DS-WETLAND 1-SWALE N2 - Pipe	10Y1D	7.75	0.00	-0.10	0.00	0.00	0.00
DS-WETLAND	10Y1D	7.75	0.00	-0.16	0.01	0.01	0.01

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
1-SWALE N2 - Weir: 1							
DS-WETLAND 1-SWALE N3 - Pipe	10Y1D	3.80	0.00	0.04	0.00	0.00	0.00
DS-WETLAND 1-SWALE N3 - Weir: 1	10Y1D	3.81	0.00	0.05	0.01	0.01	0.01
DS-WETLAND 2-SWALE N4 - Pipe	10Y1D	4.64	0.00	0.16	0.00	0.00	0.00
DS-WETLAND 2-SWALE N4 - Weir: 1	10Y1D	4.64	0.00	0.30	0.01	0.01	0.01
DS-WETLAND 2-WETLAND 5 - Pipe	10Y1D	0.00	0.00	0.00	0.00	0.00	0.00
DS-WETLAND 2-WETLAND 5 - Weir: 1	10Y1D	0.00	0.00	0.00	0.00	0.00	0.00
DS1-WETLAND 2-AIRPORT BASIN 11 - Pipe	10Y1D	11.91	-11.22	-0.10	0.00	0.00	0.00
DS1-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	10Y1D	11.92	-11.22	-0.13	-0.21	-0.21	-0.21
DS1-WETLAND 2-TIMBER CREEK OUTFALL - Pipe	10Y1D	4.65	0.00	0.30	0.00	0.00	0.00
DS1-WETLAND 2-TIMBER CREEK OUTFALL - Weir: 1	10Y1D	4.66	0.00	0.31	0.01	0.01	0.01
DS2-WETLAND 2-AIRPORT BASIN 11 - Pipe	10Y1D	12.39	-11.84	-0.10	0.00	0.00	0.00
DS2-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	10Y1D	12.39	-11.84	-0.13	-0.22	-0.22	-0.22
DS2-WETLAN	10Y1D	8.53	0.00	0.40	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
D 2-TIMBER CREEK OUTFALL - Pipe							
DS2-WETLAND 2-TIMBER CREEK OUTFALL - Weir: 1	10Y1D	8.53	0.00	0.41	0.01	0.01	0.01
DS3-WETLAND 2-AIRPORT BASIN 11 - Pipe	10Y1D	12.48	-11.97	-0.10	0.00	0.00	0.00
DS3-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	10Y1D	12.49	-11.97	-0.13	-0.22	-0.22	-0.22
DS4-WETLAND 2-AIRPORT BASIN 11 - Pipe	10Y1D	12.55	-12.05	-0.10	0.00	0.00	0.00
DS4-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	10Y1D	12.55	-12.06	-0.13	-0.22	-0.22	-0.22
OW-PRESERVE 1-WETLAND 8	10Y1D	63.47	0.00	0.01	1.68	1.68	1.68
OW-PRESERVE 1-W7	10Y1D	0.44	-65.34	-0.02	-1.67	-1.67	-1.67
OW-W3-W5	10Y1D	25.89	0.00	0.00	0.87	0.87	0.87
OW-W5-W6	10Y1D	148.47	0.00	-0.06	1.04	1.04	1.04
OW-W6-W7	10Y1D	141.81	0.00	0.03	1.66	1.66	1.66
OW-W7-EB TW DMY	10Y1D	127.66	0.00	0.07	0.95	0.95	0.95
OW-W7-W8	10Y1D	97.19	0.00	0.04	1.38	1.38	1.38
P-BASIN 1-BASIN 3	10Y1D	4.17	0.00	-0.01	0.85	0.85	0.85
P-BASIN 11-BASIN 9	10Y1D	1.14	-7.21	-0.01	-1.02	-1.02	-1.02
P-BASIN 12-BASIN 11	10Y1D	1.93	-17.46	0.02	-2.47	-2.47	-2.47
P-BASIN 13-BASIN 7	10Y1D	10.78	-1.61	-0.01	1.53	1.53	1.53
P-BASIN 14-BASIN 13	10Y1D	11.81	-3.21	0.06	1.67	1.67	1.67
P-BASIN	10Y1D	2.94	-0.28	0.02	0.42	0.42	0.42

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
2-BASIN 3							
P-BASIN 3-BASIN 4	10Y1D	1.96	-8.64	0.01	-1.22	-1.22	-1.22
P-BASIN 3-BASIN 5	10Y1D	4.73	0.00	-0.01	0.67	0.67	0.67
P-BASIN 3-BASIN 6	10Y1D	2.75	-3.35	0.03	-0.47	-0.47	-0.47
P-BASIN 4-BASIN 7	10Y1D	6.52	-1.62	-0.03	0.92	0.92	0.92
P-BASIN 5-BASIN 8	10Y1D	5.34	0.00	-0.02	0.76	0.76	0.76
P-BASIN 6-BASIN 8	10Y1D	7.19	0.00	-0.03	1.02	1.02	1.02
P-BASIN 7-BASIN 8	10Y1D	9.37	-0.06	-0.01	1.33	1.33	1.33
P-BASIN 7-BASIN 9	10Y1D	6.72	-4.79	0.02	0.95	0.95	0.95
P-BASIN 8-BASIN 9	10Y1D	5.60	-10.00	0.03	-1.42	-1.42	-1.42
P-EB OUTFALL-EB TW	10Y1D	68.52	-8.69	10.54	2.72	2.72	2.72
P-WETLAND 1-WETLAND 2	10Y1D	12.55	-10.36	-0.12	1.33	1.33	1.33
P-WETLAND 4-WETLAND 5	10Y1D	36.86	0.00	-0.31	2.93	2.93	2.93
P-WETLAND 5-DMY1	10Y1D	3.99	-9.15	0.20	-3.09	-2.93	-3.01
P1-W7-EB TW DMY	10Y1D	18.24	-2.34	-1.44	3.15	4.32	3.74
P2-W7-EB TW DMY	10Y1D	11.83	-1.02	0.85	2.79	4.28	3.53
P3-DS-W7-EB TW DMY	10Y1D	7.89	-0.91	0.67	4.47	4.47	4.47
P4-W7-EB TW DMY	10Y1D	15.04	-1.70	1.26	4.79	4.79	4.79
P5-W7-EB TW DMY	10Y1D	15.04	-1.70	1.26	4.79	4.79	4.79
CH-DMY1-DMY2	25Y3D	9.02	-4.26	-0.03	0.51	0.42	0.46
CH-SW1-SW2	25Y3D	19.78	-8.98	-0.03	0.58	0.62	0.60
CH-SWN2-SWN3	25Y3D	17.47	-7.03	0.02	0.53	0.56	0.55
CH-SWN3-SWN4	25Y3D	20.84	-6.58	0.05	0.67	0.78	0.73

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
CH-SWN4-TC OUTFALL	25Y3D	32.95	-7.51	0.09	1.29	1.33	1.31
CH-WETLAND 1-DP DMY 1	25Y3D	0.75	-0.66	0.00	-0.13	-0.28	-0.20
CS1-DRD-N3	25Y3D	7.47	-0.10	0.00	0.00	0.00	0.00
CS1-DRD-N4	25Y3D	13.07	-0.17	0.00	0.00	0.00	0.00
CS1-DRD-TC COM	25Y3D	6.80	-0.09	0.00	0.00	0.00	0.00
CS1-DRD-TC OUTFALL	25Y3D	3.26	-0.04	0.00	0.00	0.00	0.00
CS1-DS1-DRD	25Y3D	9.89	-0.13	0.00	0.00	0.00	0.00
CS2-DRD-TC COM	25Y3D	6.80	-0.09	0.00	0.00	0.00	0.00
CS2-DRD-TC OUTFALL	25Y3D	5.05	-0.07	0.00	0.00	0.00	0.00
CS2-DS1-DRD	25Y3D	8.33	-0.11	0.00	0.00	0.00	0.00
CS3-DRD-TC COM	25Y3D	4.48	-0.06	0.00	0.00	0.00	0.00
CS3-DRD-TC OUTFALL	25Y3D	9.89	-0.13	0.00	0.00	0.00	0.00
DS-BASIN 10-WETLAND 1 - Pipe	25Y3D	2.30	0.00	0.00	0.00	0.00	0.00
DS-BASIN 10-WETLAND 1 - Weir: 1	25Y3D	1.21	0.00	0.00	7.05	7.05	7.05
DS-BASIN 10-WETLAND 1 - Weir: 2	25Y3D	1.14	0.00	0.00	5.73	5.73	5.73
DS-BASIN 10-WETLAND 1 - Weir: 3	25Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 11-WETLAND 6 - Pipe	25Y3D	7.27	0.00	0.00	0.00	0.00	0.00
DS-BASIN 11-WETLAND 6 - Weir: 1	25Y3D	7.27	0.00	0.00	5.40	5.40	5.40
DS-BASIN 11-WETLAND 6 - Weir: 2	25Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 14-WETLAND 7 - Pipe	25Y3D	7.99	0.00	0.00	0.00	0.00	0.00
DS-BASIN 14-WETLAND 7 - Weir: 1	25Y3D	7.99	0.00	0.00	5.94	5.94	5.94

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
DS-BASIN 14-WETLAND 7 - Weir: 2	25Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 8-WETLAND 1 - Pipe	25Y3D	5.25	0.00	0.00	0.00	0.00	0.00
DS-BASIN 8-WETLAND 1 - Weir: 1	25Y3D	5.25	0.00	0.00	6.50	6.50	6.50
DS-BASIN 8-WETLAND 1 - Weir: 2	25Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN 9-WETLAND 5 - Pipe	25Y3D	9.10	0.00	0.00	0.00	0.00	0.00
DS-BASIN 9-WETLAND 5 - Weir: 1	25Y3D	9.10	0.00	0.00	6.77	6.77	6.77
DS-BASIN 9-WETLAND 5 - Weir: 2	25Y3D	0.00	0.00	0.00	0.00	0.00	0.00
DS-BASIN C1-BASIN 2 - Pipe	25Y3D	2.72	0.00	-0.10	0.00	0.00	0.00
DS-BASIN C1-BASIN 2 - Weir: 1	25Y3D	2.72	0.00	-0.19	4.41	4.41	4.41
DS-DMY2-EB TW - Pipe	25Y3D	9.02	-2.15	0.02	0.00	0.00	0.00
DS-DMY2-EB TW - Weir: 1	25Y3D	9.02	-2.15	0.03	0.13	0.13	0.13
DS-DP DMY 1-TC COMMERCIAL - Pipe	25Y3D	0.74	-1.79	0.00	0.00	0.00	0.00
DS-DP DMY 1-TC COMMERCIAL - Weir: 1	25Y3D	0.74	-1.79	0.00	-0.01	-0.01	-0.01
DS-WETLAND 1-SWALE N2 - Pipe	25Y3D	4.98	-4.73	-0.01	0.00	0.00	0.00
DS-WETLAND 1-SWALE N2 - Weir: 1	25Y3D	4.98	-4.73	-0.02	0.00	0.00	0.00
DS-WETLAND 1-SWALE N3	25Y3D	3.37	-1.75	0.03	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
- Pipe							
DS-WETLAND 1-SWALE N3 - Weir: 1	25Y3D	3.37	-1.75	0.03	0.00	0.00	0.00
DS-WETLAND 2-SWALE N4 - Pipe	25Y3D	3.50	-0.57	0.02	0.00	0.00	0.00
DS-WETLAND 2-SWALE N4 - Weir: 1	25Y3D	3.50	-0.57	0.03	0.00	0.00	0.00
DS-WETLAND 2-WETLAND 5 - Pipe	25Y3D	3.48	0.00	0.00	0.00	0.00	0.00
DS-WETLAND 2-WETLAND 5 - Weir: 1	25Y3D	3.48	0.00	0.00	1.05	1.05	1.05
DS1-WETLAND 2-AIRPORT BASIN 11 - Pipe	25Y3D	3.37	-1.70	0.01	0.00	0.00	0.00
DS1-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	25Y3D	3.37	-1.70	0.01	0.04	0.04	0.04
DS1-WETLAND 2-TIMBER CREEK OUTFALL - Pipe	25Y3D	3.41	-0.69	0.03	0.00	0.00	0.00
DS1-WETLAND 2-TIMBER CREEK OUTFALL - Weir: 1	25Y3D	3.41	-0.69	0.03	0.00	0.00	0.00
DS2-WETLAND 2-AIRPORT BASIN 11 - Pipe	25Y3D	3.46	-1.79	0.01	0.00	0.00	0.00
DS2-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	25Y3D	3.46	-1.80	0.01	0.04	0.04	0.04
DS2-WETLAND 2-TIMBER CREEK OUTFALL - Pipe	25Y3D	6.57	-1.33	0.03	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
DS2-WETLAND 2-TIMBER CREEK OUTFALL - Weir: 1	25Y3D	6.57	-1.33	0.04	0.01	0.01	0.01
DS3-WETLAND 2-AIRPORT BASIN 11 - Pipe	25Y3D	3.48	-1.81	0.01	0.00	0.00	0.00
DS3-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	25Y3D	3.48	-1.82	0.01	0.04	0.04	0.04
DS4-WETLAND 2-AIRPORT BASIN 11 - Pipe	25Y3D	3.49	-1.83	0.01	0.00	0.00	0.00
DS4-WETLAND 2-AIRPORT BASIN 11 - Weir: 1	25Y3D	3.49	-1.83	0.01	0.04	0.04	0.04
OW-PRESERVE 1-WETLAND 8	25Y3D	99.01	-27.96	-0.04	1.94	1.94	1.94
OW-PRESERVE 1-W7	25Y3D	0.10	-64.23	0.02	-1.39	-1.39	-1.39
OW-W3-W5	25Y3D	34.89	-5.93	0.01	0.94	0.94	0.94
OW-W5-W6	25Y3D	112.52	-31.27	0.07	0.86	0.86	0.86
OW-W6-W7	25Y3D	167.29	-51.84	0.09	1.62	1.62	1.62
OW-W7-EB TW DMY	25Y3D	327.72	-143.86	0.45	1.06	1.06	1.06
OW-W7-W8	25Y3D	175.55	-72.34	0.08	1.67	1.67	1.67
P-BASIN 1-BASIN 3	25Y3D	4.44	0.00	0.00	0.90	0.90	0.90
P-BASIN 11-BASIN 9	25Y3D	1.19	-5.08	0.00	-0.72	-0.72	-0.72
P-BASIN 12-BASIN 11	25Y3D	2.37	-18.78	0.01	-2.66	-2.66	-2.66
P-BASIN 13-BASIN 7	25Y3D	8.78	-2.47	0.00	1.24	1.24	1.24
P-BASIN 14-BASIN 13	25Y3D	7.50	-5.32	-0.01	1.06	1.06	1.06
P-BASIN 2-BASIN 3	25Y3D	3.34	-2.59	0.01	0.47	0.47	0.47
P-BASIN 3-BASIN 4	25Y3D	3.11	-10.20	0.01	-1.44	-1.44	-1.44
P-BASIN	25Y3D	4.78	0.00	0.00	0.68	0.68	0.68

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
3-BASIN 5							
P-BASIN 3-BASIN 6	25Y3D	2.68	-4.37	0.02	-0.62	-0.62	-0.62
P-BASIN 4-BASIN 7	25Y3D	8.18	-0.05	0.00	1.16	1.16	1.16
P-BASIN 5-BASIN 8	25Y3D	6.06	-0.02	0.00	0.86	0.86	0.86
P-BASIN 6-BASIN 8	25Y3D	8.53	0.00	0.00	1.21	1.21	1.21
P-BASIN 7-BASIN 8	25Y3D	9.86	-0.64	0.00	1.39	1.39	1.39
P-BASIN 7-BASIN 9	25Y3D	6.32	-5.01	0.02	0.89	0.89	0.89
P-BASIN 8-BASIN 9	25Y3D	5.88	-10.92	0.00	-1.54	-1.54	-1.54
P-EB OUTFALL-EB TW	25Y3D	19.57	-6.23	2.71	0.77	0.77	0.77
P-WETLAND 1-WETLAND 2	25Y3D	13.34	0.00	-0.01	1.42	1.42	1.42
P-WETLAND 4-WETLAND 5	25Y3D	36.86	-7.40	-0.03	2.93	2.93	2.93
P-WETLAND 5-DMY1	25Y3D	9.01	-9.16	0.04	-3.09	-2.93	-3.01
P1-W7-EB TW DMY	25Y3D	5.89	-1.89	-0.42	0.98	1.04	1.01
P2-W7-EB TW DMY	25Y3D	5.17	-0.97	-0.34	1.13	1.13	1.13
P3-DS-W7-EB TW DMY	25Y3D	1.70	-0.64	-0.15	0.96	0.96	0.96
P4-W7-EB TW DMY	25Y3D	3.25	-1.21	-0.29	1.03	1.03	1.03
P5-W7-EB TW DMY	25Y3D	3.25	-1.21	-0.29	1.03	1.03	1.03

APPENDIX K-PROPOSED CONDITIONS MANUAL BASIN MAX

Manual Basin Runoff Summary [Icpr3]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
AirportBasin11	100Y3D	660.55	60.3333	13.90	13.35	213.6318	95.5	0.00	0.00
BASIN 1	100Y3D	43.36	60.0500	13.90	12.98	6.6300	92.3	0.00	0.00
BASIN 10	100Y3D	261.07	60.0500	13.90	13.07	39.8600	93.0	0.00	0.00
BASIN 11	100Y3D	207.56	60.0500	13.90	12.92	31.7600	91.9	0.00	0.00
BASIN 12	100Y3D	185.43	60.0500	13.90	12.62	28.5400	89.5	0.00	0.00
BASIN 13	100Y3D	402.13	60.0500	13.90	13.04	61.4200	92.8	0.00	0.00
BASIN 14	100Y3D	380.66	60.0500	13.90	13.08	58.1100	93.1	0.00	0.00
BASIN 2	100Y3D	55.69	60.0500	13.90	12.86	8.5300	91.4	0.00	0.00
BASIN 3	100Y3D	244.09	60.0500	13.90	12.86	37.3900	91.4	0.00	0.00
BASIN 4	100Y3D	136.53	60.0500	13.90	12.99	20.8700	92.4	0.00	0.00
BASIN 5	100Y3D	146.65	60.0500	13.90	12.90	22.4500	91.7	0.00	0.00
BASIN 6	100Y3D	124.08	60.0500	13.90	12.94	18.9800	92.1	0.00	0.00
BASIN 7	100Y3D	340.03	60.0500	13.90	12.89	52.0600	91.7	0.00	0.00
BASIN 8	100Y3D	447.73	60.0500	13.90	12.83	68.6200	91.2	0.00	0.00
BASIN 9	100Y3D	296.13	60.0500	13.90	12.97	45.2800	92.3	0.00	0.00
BASIN C1	100Y3D	321.59	60.0500	13.90	13.27	48.9700	94.7	0.00	0.00
PRESERVE 1	100Y3D	159.24	61.5833	13.90	12.52	74.8900	88.8	0.00	0.00
SWALE N2	100Y3D	5.65	60.0167	13.90	13.64	0.9200	98.0	0.00	0.00
SWALE N3	100Y3D	7.50	60.0167	13.90	13.64	1.2200	98.0	0.00	0.00
SWALE N4	100Y3D	0.31	60.0167	13.90	13.64	0.0500	98.0	0.00	0.00
TC COMMERCIAL	100Y3D	247.77	60.0833	13.90	13.43	39.7700	95.9	0.00	0.00
WETLAND 1	100Y3D	178.81	61.0500	13.90	13.84	64.7900	99.3	0.00	0.00
WETLAND 2	100Y3D	414.09	61.6667	13.90	13.81	196.9700	99.0	0.00	0.00
WETLAND 3	100Y3D	61.25	60.2167	13.90	12.96	11.7300	92.2	0.00	0.00
WETLAND 4	100Y3D	77.61	60.4333	13.90	13.56	18.3300	97.0	0.00	0.00
WETLAND 5	100Y3D	214.87	60.9167	13.90	13.44	72.7900	96.1	0.00	0.00
WETLAND 6	100Y3D	191.82	60.8500	13.90	13.66	62.4900	97.8	0.00	0.00
WETLAND 7	100Y3D	151.50	61.4500	13.90	13.66	66.5500	97.8	0.00	0.00
WETLAND 8	100Y3D	147.75	63.6167	13.90	13.66	115.0600	97.8	0.00	0.00
AirportBasin11	10Y1D	406.60	12.4333	6.50	5.97	213.6318	95.5	0.00	0.00
BASIN 1	10Y1D	26.36	12.1000	6.50	5.61	6.6300	92.3	0.00	0.00
BASIN 10	10Y1D	159.74	12.1000	6.50	5.69	39.8600	93.0	0.00	0.00
BASIN 11	10Y1D	125.67	12.1000	6.50	5.56	31.7600	91.9	0.00	0.00

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
BASIN 12	10Y1D	109.38	12.1000	6.50	5.29	28.5400	89.5	0.00	0.00
BASIN 13	10Y1D	245.62	12.1000	6.50	5.67	61.4200	92.8	0.00	0.00
BASIN 14	10Y1D	233.10	12.1000	6.50	5.70	58.1100	93.1	0.00	0.00
BASIN 2	10Y1D	33.55	12.1000	6.50	5.51	8.5300	91.4	0.00	0.00
BASIN 3	10Y1D	147.06	12.1000	6.50	5.51	37.3900	91.4	0.00	0.00
BASIN 4	10Y1D	83.06	12.1000	6.50	5.62	20.8700	92.4	0.00	0.00
BASIN 5	10Y1D	88.60	12.1000	6.50	5.54	22.4500	91.7	0.00	0.00
BASIN 6	10Y1D	75.24	12.1000	6.50	5.58	18.9800	92.1	0.00	0.00
BASIN 7	10Y1D	205.35	12.1000	6.50	5.53	52.0600	91.7	0.00	0.00
BASIN 8	10Y1D	269.09	12.1000	6.50	5.48	68.6200	91.2	0.00	0.00
BASIN 9	10Y1D	179.90	12.1000	6.50	5.60	45.2800	92.3	0.00	0.00
BASIN C1	10Y1D	199.45	12.1000	6.50	5.88	48.9700	94.7	0.00	0.00
PRESERVE 1	10Y1D	92.04	13.7000	6.50	5.21	74.8900	88.8	0.00	0.00
SWALE N2	10Y1D	3.57	12.0500	6.50	6.25	0.9200	98.0	0.00	0.00
SWALE N3	10Y1D	4.73	12.0500	6.50	6.25	1.2200	98.0	0.00	0.00
SWALE N4	10Y1D	0.19	12.0500	6.50	6.25	0.0500	98.0	0.00	0.00
TC COMMERCIAL	10Y1D	151.88	12.1500	6.50	6.03	39.7700	95.9	0.00	0.00
WETLAND 1	10Y1D	114.36	13.1333	6.50	6.43	64.7900	99.3	0.00	0.00
WETLAND 2	10Y1D	263.74	13.7333	6.50	6.39	196.9700	99.0	0.00	0.00
WETLAND 3	10Y1D	35.94	12.3000	6.50	5.60	11.7300	92.2	0.00	0.00
WETLAND 4	10Y1D	48.34	12.5167	6.50	6.15	18.3300	97.0	0.00	0.00
WETLAND 5	10Y1D	135.44	13.0000	6.50	6.04	72.7900	96.1	0.00	0.00
WETLAND 6	10Y1D	122.12	12.9333	6.50	6.25	62.4900	97.8	0.00	0.00
WETLAND 7	10Y1D	96.20	13.5333	6.50	6.25	66.5500	97.8	0.00	0.00
WETLAND 8	10Y1D	92.70	15.6667	6.50	6.25	115.0600	97.8	0.00	0.00
AirportBasin11	25Y3D	502.72	60.3333	10.60	10.05	213.6318	95.5	0.00	0.00
BASIN 1	25Y3D	32.90	60.0500	10.60	9.68	6.6300	92.3	0.00	0.00
BASIN 10	25Y3D	198.26	60.0500	10.60	9.77	39.8600	93.0	0.00	0.00
BASIN 11	25Y3D	157.41	60.0500	10.60	9.63	31.7600	91.9	0.00	0.00
BASIN 12	25Y3D	140.13	60.0500	10.60	9.34	28.5400	89.5	0.00	0.00
BASIN 13	25Y3D	305.32	60.0500	10.60	9.75	61.4200	92.8	0.00	0.00
BASIN 14	25Y3D	289.11	60.0500	10.60	9.78	58.1100	93.1	0.00	0.00
BASIN 2	25Y3D	42.20	60.0500	10.60	9.57	8.5300	91.4	0.00	0.00
BASIN 3	25Y3D	184.99	60.0500	10.60	9.57	37.3900	91.4	0.00	0.00
BASIN 4	25Y3D	103.61	60.0500	10.60	9.69	20.8700	92.4	0.00	0.00

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
BASIN 5	25Y3D	111.18	60.0500	10.60	9.61	22.4500	91.7	0.00	0.00
BASIN 6	25Y3D	94.12	60.0500	10.60	9.65	18.9800	92.1	0.00	0.00
BASIN 7	25Y3D	257.79	60.0500	10.60	9.60	52.0600	91.7	0.00	0.00
BASIN 8	25Y3D	339.22	60.0500	10.60	9.54	68.6200	91.2	0.00	0.00
BASIN 9	25Y3D	224.68	60.0500	10.60	9.68	45.2800	92.3	0.00	0.00
BASIN C1	25Y3D	244.63	60.0500	10.60	9.97	48.9700	94.7	0.00	0.00
PRESERVE 1	25Y3D	120.07	61.5833	10.60	9.25	74.8900	88.8	0.00	0.00
SWALE N2	25Y3D	4.31	60.0167	10.60	10.35	0.9200	98.0	0.00	0.00
SWALE N3	25Y3D	5.71	60.0167	10.60	10.35	1.2200	98.0	0.00	0.00
SWALE N4	25Y3D	0.23	60.0167	10.60	10.35	0.0500	98.0	0.00	0.00
TC COMMERCIAL	25Y3D	188.66	60.0833	10.60	10.13	39.7700	95.9	0.00	0.00
WETLAND 1	25Y3D	136.35	61.0500	10.60	10.53	64.7900	99.3	0.00	0.00
WETLAND 2	25Y3D	315.75	61.6667	10.60	10.50	196.9700	99.0	0.00	0.00
WETLAND 3	25Y3D	46.46	60.2167	10.60	9.67	11.7300	92.2	0.00	0.00
WETLAND 4	25Y3D	59.13	60.4333	10.60	10.26	18.3300	97.0	0.00	0.00
WETLAND 5	25Y3D	163.61	60.9167	10.60	10.14	72.7900	96.1	0.00	0.00
WETLAND 6	25Y3D	146.21	60.8500	10.60	10.36	62.4900	97.8	0.00	0.00
WETLAND 7	25Y3D	115.47	61.4500	10.60	10.36	66.5500	97.8	0.00	0.00
WETLAND 8	25Y3D	112.61	63.6167	10.60	10.36	115.0600	97.8	0.00	0.00

APPENDIX-PROGRESSIVE WATER RESOURCES INTEGRATED MODEL ANALYSIS

INTEGRATED MODEL ANALYSIS
DANIELS SOUTH

Prepared for:
Lennar Homes, LLC
700 N.W. 107th Avenue Suite 400
Miami, FL 33172

Prepared by:
Progressive Water Resources,
a Division of RESPEC Company, LLC
6561 Palmer Park Circle, Suite D
Sarasota, FL 34238

Progressive Water Resources
Integrated Water Resource Consultants
a Division of RESPEC Company LLC

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Methodology and Results Narrative

Appendix A

- Existing conditions input data
- Existing conditions recharge volume summary
- Existing conditions recharge volume vs time graph

Appendix B

- Proposed conditions input data
- Proposed conditions recharge volume summary
- Proposed conditions recharge volume vs time graph



Progressive Water Resources
Integrated Water Resource Consultants
a Division of RESPEC Company LLC

TECHNICAL MEMORANDUM

Date: May 20, 2022

To: Russell Smith, Division Manager Lennar Homes, LLC

From: Peter A. Brown, P.E. & David J. Brown, P.G.

Re: Daniels South Integrated Model Analysis

BACKGROUND

Progressive Water Resources (PWR), a division of RESPEC Company, LLC was engaged by Lennar Homes, LLC (Client) to develop an integrated groundwater / surface water model to assess pre- and post-development groundwater recharge for the proposed Daniels South residential development project. The integrated model is a requirement of The Lee Plan Policy 33.1.7 which states that impacts of proposed land use disturbances on surface and groundwater resources will be analyzed by means of an integrated surface and groundwater model that utilizes site-specific data to assess potential adverse impacts on water resources and natural systems.

The subject property on which the modeling was performed encompasses approximately 1,230-acres and is located at the intersection of Daniels Parkway and State Road 82. Please note that where appropriate, input data used in the integrated model is consistent with the stormwater design parameters utilized by the Engineer of Record (Morris Depew).

ANALYSIS METHODOLOGY

ICPR Version 4.07.08 software was utilized to compare existing and proposed conditions for the project to demonstrate that no adverse impacts on water resources are anticipated to occur. The Existing Conditions model consists of a mixture of upland and wetland areas with no impervious area. Onsite soil parameters were obtained from the Natural Resources Conservation Service (NRCS) soil survey for Lee County with topographic information included in the model based on Lee County LIDAR.

The Proposed Conditions model assumes that 70% of the developable area will be impervious with 29.8% being Directly Connected Impervious Area (DCIA). The Lee County Lidar was updated in the Proposed Model to incorporate the conceptual grading of the stormwater lakes and developable area. As previously stated, the input data for nodes and links are based on the 1D ICPR model developed by the Engineer of Record.

The Green Ampt Method was utilized for onsite basins to integrate surface and groundwater characteristics for both existing and proposed conditions. Simplifications were made to the recharge areas (i.e., stormwater ponds and wetlands) as recommended by the software developer (Streamline Technologies) in order to optimize the triangulation mesh of the 2D overland and 2D groundwater regions. **Figure 1A** below depicts the triangulation mesh for both overland (blue mesh) and groundwater (pink mesh) regions for the Existing Conditions Model along with the onsite ICPR basins and LIDAR terrain. Similarly, **Figure 1B** illustrates the corresponding information for the Proposed Conditions Model. Please note that LIDAR symbology differs in **Figure 1B** due to the incorporation of proposed onsite regrading. However, elevations of undisturbed areas

are the same as Existing Conditions. A 25-year, 3-day event was used to model both conditions (i.e., pre- and post- development) for a simulation time period of 360 hours. ICPR input and summary results are provide in **Appendices A** and **B**.

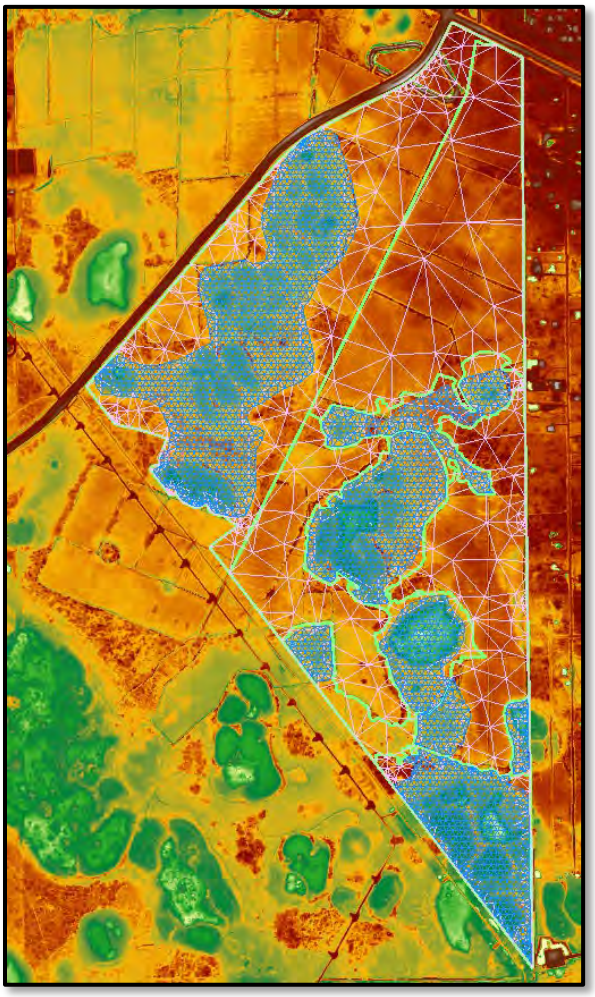


Figure 1A – Existing Conditions Triangulation Mesh

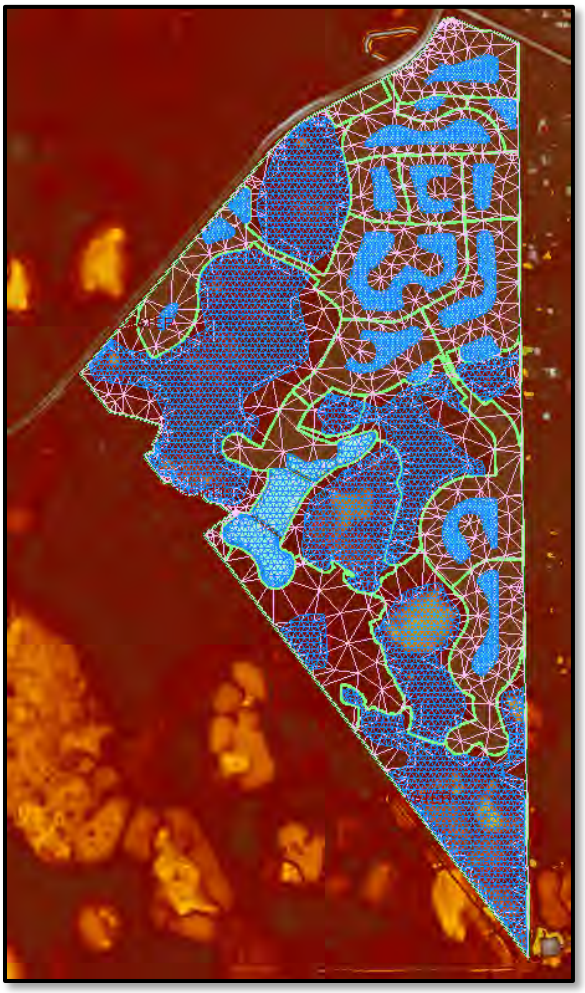


Figure 1B – Proposed Conditions Triangulation Mesh

RESULTS

Based on the results of the ICPR 4 Green Ampt analysis for a 25-year, 3-day rainfall event, the groundwater recharge volume simulated in the Proposed Conditions model is greater than existing conditions. This result indicates a beneficial increase in recharge to the underlying Water Table Aquifer. The existing conditions model simulates approximately 1,403 acre-ft over a duration of 360 hours, while the Proposed Conditions Model anticipates 1,497 acre-ft (net increase of 94 acre-ft). A comparison hydrograph is provided in **Figure 1** below. The results of this integrated analysis demonstrate that over time, the addition of stormwater lakes (wet detention areas) associated with the Daniels South project will enhance water resources by providing a net benefit in groundwater recharge.

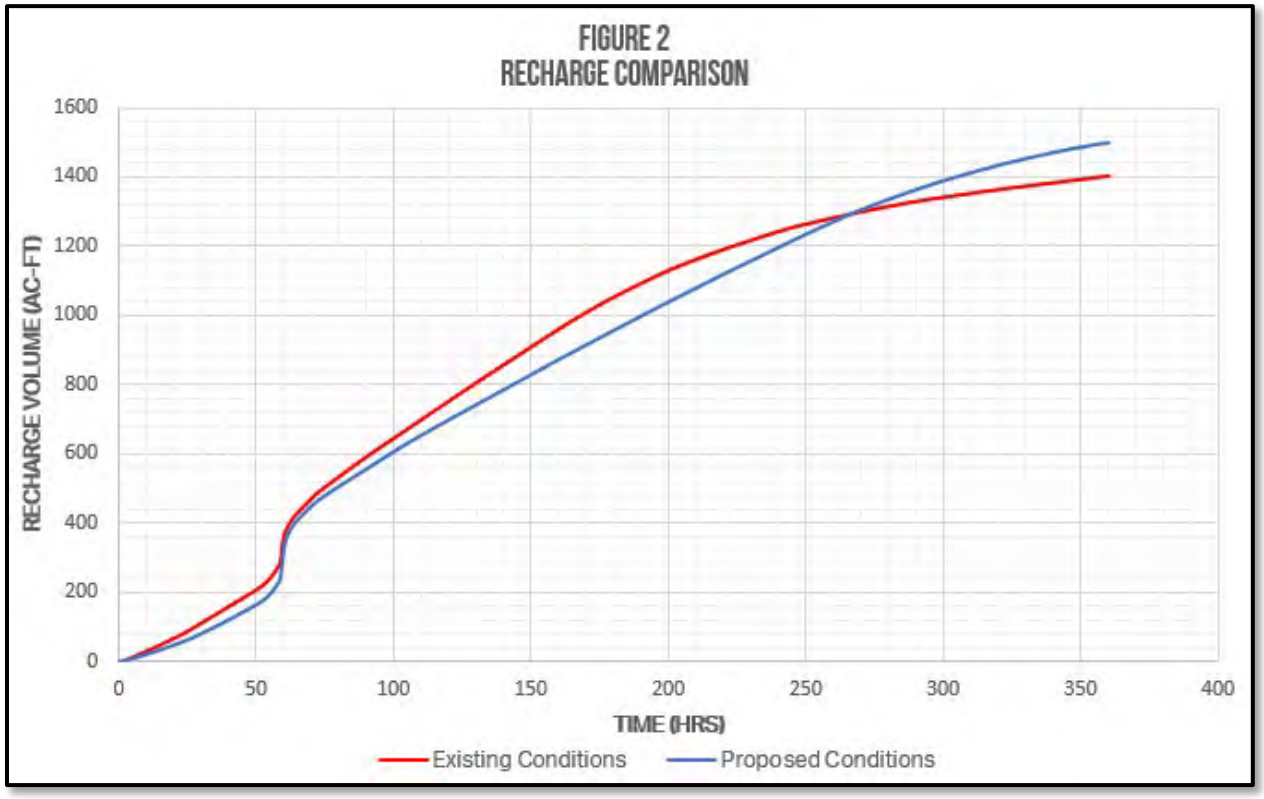


FIGURE 2
RECHARGE COMPARISON
RECHARGE VOLUME (AC-FT)
1600
1400
1200
1000
800
600
400
200
0
0
50
100
150
200
250
300
350
400
TIME (HRS)
Existing Conditions
Proposed Conditions

APPENDIX A

EXISTING CONDITIONS ICPR REPORTS

Manual Basin: AirportBasin11

Scenario: Scenario1
Node: AirportBasin11
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 43.1000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 213.6318 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
213.6318	AirportBasin11	AirportBasin11			

Comment: OUTFALL TO AIRPORT

Manual Basin: SWALE N2

Scenario: Scenario1
Node: Swale N2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.9200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.9200	SWALE N2	SWALE N2			

Comment:

Manual Basin: SWALE N3

Scenario: Scenario1
Node: SWALE N3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.2200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
1.2200	SWALE N3	SWALE N3			

Comment:

Manual Basin: SWALE N4

Scenario: Scenario1
Node: Swale N4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.0500	SWALE N4	SWALE N4			

Comment:

Manual Basin: TC COMMERCIAL

Scenario: Scenario1
Node: TC COMMERCIAL
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 24.9800 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 39.7700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
39.7700	OFFSITE 1	OFFSITE 1			

Comment:

Mapped Basin: DS EAST

Scenario:	Scenario1
Node:	DS EAST
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	257.8100 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	146.2552 ac

Comment:

Mapped Basin: DS NORTH

Scenario:	Scenario1
Node:	DS NORTH
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	147.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	227.4241 ac

Comment:

Mapped Basin: DS WEST

Scenario:	Scenario1
Node:	DS WEST
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	116.8700 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	115.8953 ac

Comment:

Mapped Basin: WETLAND 1

Scenario:	Scenario1
Node:	WETLAND 1
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	23.2200 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	208.9651 ac

Comment:

Mapped Basin: WETLAND 2

Scenario:	Scenario1
Node:	WETLAND 2
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	36.7400 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	18.4969 ac

Comment:

Mapped Basin: WETLAND 3

Scenario:	Scenario1
Node:	WETLAND 3
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	64.1600 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	8.4239 ac

Comment:

Mapped Basin: WETLAND 4

Scenario:	Scenario1
Node:	WETLAND 4
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	70.7300 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	10.1830 ac

Comment:

Mapped Basin: WETLAND 5

Scenario:	Scenario1
Node:	WETLAND 5
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	83.2200 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	19.5048 ac

Comment:

Mapped Basin: WETLAND 6

Scenario:	Scenario1
Node:	WETLAND 6
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	32.5700 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	1.7800 ac

Comment:

Mapped Basin: WETLAND 7

Scenario:	Scenario1
Node:	WETLAND 7
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	92.3900 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	11.3878 ac

Comment:

Curve Number: CN [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
AirportBasin11	AirportBasin11	95.5
OFFSITE 1	OFFSITE 1	95.9
SWALE N2	SWALE N2	98.0
SWALE N3	SWALE N3	98.0
SWALE N4	SWALE N4	98.0

Impervious: Impervious [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia Impervious [in]	Ia Pervious [in]
AirportBasin11	0.00	0.00	0.00	0.000	0.000
OFFSITE 1	0.00	0.00	0.00	0.000	0.000
Pervious	0.00	0.00	0.00	0.000	0.000
SWALE N2	0.00	0.00	0.00	0.000	0.000
SWALE N3	0.00	0.00	0.00	0.000	0.000
SWALE N4	0.00	0.00	0.00	0.000	0.000

Green-Ampt: Green-Ampt [Set]

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
Anclote sand, frequently ponded, 0 to 1 percent slopes	24.456	0.4364	0.0190	0.1140	0.1140	0.0380
Brynwood fine sand, wet, 0 to 2 percent slopes	20.095	0.4000	0.0140	0.0880	0.0880	0.0280
Cypress Lake fine sand, 0 to 2 percent slopes	21.843	0.4211	0.0175	0.0980	0.0980	0.0350
Cypress Lake fine sand-Urban land complex, 0 to 2 percent slopes	21.653	0.4716	0.0125	0.0680	0.0680	0.0250
EauGallie sand, 0 to 2 percent slopes	20.654	0.4034	0.0290	0.1290	0.1290	0.0580
Felda fine sand, 0 to 2 percent slopes	23.611	0.4187	0.0210	0.1080	0.1080	0.0420
Felda fine sand, frequently ponded, 0 to 1 percent slopes	21.990	0.4659	0.0260	0.1210	0.1210	0.0520
Felda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	21.187	0.4721	0.0175	0.0780	0.0780	0.0350
Floridana sand, frequently ponded, 0 to 2	9.397	0.4921	0.0655	0.2090	0.2090	0.1310

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
percent slopes						
Floridana sand, ponded-Urban land complex, 0 to 1 percent slopes	10.094	0.4872	0.0385	0.1270	0.1270	0.0770
Gator muck, frequently ponded, 0 to 1 percent slopes	10.226	0.5055	0.0520	0.2630	0.2630	0.1040
Gator muck, ponded-Urban land complex, 0 to 1 percent slopes	12.641	0.5285	0.0320	0.1670	0.1670	0.0640
Immokalee sand, 0 to 2 percent slopes	21.534	0.4261	0.0170	0.0910	0.0910	0.0340
Immokalee sand-Urban land complex, 0 to 2 percent slopes	22.478	0.4260	0.0115	0.0610	0.0610	0.0230
Malabar fine sand, 0 to 2 percent slopes	21.834	0.4510	0.0265	0.1260	0.1260	0.0530
Malabar fine sand, frequently ponded, 0 to 1 percent slopes	22.129	0.4601	0.0265	0.1270	0.1270	0.0530
Malabar fine sand, high, 0 to 2 percent slopes	21.629	0.4730	0.0275	0.1290	0.1290	0.0550
Malabar fine sand, high-Urban	21.326	0.4890	0.0170	0.0800	0.0800	0.0340

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
land complex, 0 to 2 percent slopes						
Malabar fine sand, ponded-Urban land complex, 0 to 1 percent slopes	22.088	0.4850	0.0155	0.0760	0.0760	0.0310
Malabar fine sand-Urban land complex, 0 to 2 percent slopes	21.656	0.4820	0.0165	0.0770	0.0770	0.0330
Myakka fine sand, 0 to 2 percent slopes	22.759	0.4209	0.0175	0.0970	0.0970	0.0350
Myakka fine sand, frequently ponded, 0 to 1 percent slopes	22.686	0.4685	0.0185	0.0970	0.0970	0.0370
Myakka fine sand, ponded-Urban land complex, 0 to 1 percent slopes	22.680	0.4896	0.0115	0.0600	0.0600	0.0230
Oldsmar sand, 0 to 2 percent slopes	14.763	0.4439	0.0415	0.1500	0.1500	0.0830
Oldsmar sand-Urban land, 0 to 2 percent slopes	15.582	0.4897	0.0245	0.0900	0.0900	0.0490
Pineda fine sand,	15.534	0.4790	0.0290	0.1270	0.1270	0.0580

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
frequently ponded, 0 to 1 percent slopes						
Pineda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	15.927	0.4980	0.0170	0.0760	0.0760	0.0340
Pineda fine sand-Urban land complex, 0 to 2 percent slopes	17.717	0.4933	0.0165	0.0780	0.0780	0.0330
Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes	17.157	0.4304	0.0250	0.1170	0.1170	0.0500
Pompano fine sand, 0 to 2 percent slopes	25.339	0.4056	0.0075	0.0650	0.0650	0.0150
Pompano fine sand, frequently ponded, 0 to 1 percent slopes	25.933	0.4334	0.0095	0.0730	0.0730	0.0190
Smyrna fine sand, 0 to 2 percent slopes	24.374	0.4565	0.0140	0.0890	0.0890	0.0280
Terra Ceia muck, frequently ponded, 0 to 1 percent slopes	24.701	0.6777	0.0491	0.4950	0.4950	0.1140
Valkaria fine sand, 0 to 2 percent slopes	25.937	0.4144	0.0100	0.0770	0.0770	0.0200
Valkaria fine	25.998	0.4425	0.0095	0.0760	0.0760	0.0190

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
sand, frequently ponded, 0 to 1 percent slopes						
Valkaria fine sand, ponded-Urban land complex, 0 to 1 percent slopes	25.940	0.4993	0.0060	0.0450	0.0450	0.0120
Water	21.534	0.4261	0.0170	0.0910	0.0910	0.0340

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
Anclote sand, frequently ponded, 0 to 1 percent slopes	0.55	1.287	Yes	0.26	0.00	0
Brynwood fine sand, wet, 0 to 2 percent slopes	0.57	1.854	Yes	0.56	0.00	0
Cypress Lake fine sand, 0 to 2 percent slopes	0.53	1.463	Yes	0.95	0.00	0
Cypress Lake fine sand-Urban land complex, 0 to 2 percent slopes	0.52	1.116	Yes	0.98	0.00	0
EauGallie sand, 0 to 2 percent slopes	0.50	1.809	Yes	1.02	0.00	0
Felda fine sand, 0 to 2 percent slopes	0.52	1.385	Yes	0.98	0.00	0
Felda fine sand, frequently	0.48	1.093	Yes	0.30	0.00	0

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
ponded, 0 to 1 percent slopes						
Felda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	0.47	1.070	Yes	0.36	0.00	0
Floridana sand, frequently ponded, 0 to 2 percent slopes	0.34	1.665	Yes	0.26	0.00	0
Floridana sand, ponded-Urban land complex, 0 to 1 percent slopes	0.35	1.646	Yes	0.30	0.00	0
Gator muck, frequently ponded, 0 to 1 percent slopes	0.39	1.232	Yes	0.07	0.00	0
Gator muck, ponded-Urban land complex, 0 to 1 percent slopes	0.40	1.035	Yes	0.30	0.00	0
Immokalee sand, 0 to 2 percent slopes	0.56	1.335	Yes	1.08	0.00	0
Immokalee sand-Urban land complex, 0 to 2 percent slopes	0.55	1.337	Yes	1.08	0.00	0
Malabar fine sand, 0 to 2	0.49	1.304	Yes	0.98	0.00	0

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
percent slopes						
Malabar fine sand, frequently ponded, 0 to 1 percent slopes	0.48	1.246	Yes	0.30	0.00	0
Malabar fine sand, high, 0 to 2 percent slopes	0.48	1.163	Yes	0.98	0.00	0
Malabar fine sand, high-Urban land complex, 0 to 2 percent slopes	0.47	1.060	Yes	1.02	0.00	0
Malabar fine sand, ponded-Urban land complex, 0 to 1 percent slopes	0.48	1.088	Yes	0.33	0.00	0
Malabar fine sand-Urban land complex, 0 to 2 percent slopes	0.48	1.092	Yes	1.02	0.00	0
Myakka fine sand, 0 to 2 percent slopes	0.55	1.324	Yes	1.05	0.00	0
Myakka fine sand, frequently ponded, 0 to 1 percent slopes	0.55	1.030	Yes	0.33	0.00	0
Myakka fine sand, ponded-Urban land complex, 0	0.54	0.938	Yes	0.39	0.00	0

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
to 1 percent slopes						
Oldsmar sand, 0 to 2 percent slopes	0.43	1.472	Yes	0.95	0.00	0
Oldsmar sand-Urban land, 0 to 2 percent slopes	0.43	1.085	Yes	0.98	0.00	0
Pineda fine sand, frequently ponded, 0 to 1 percent slopes	0.47	1.058	Yes	0.30	0.00	0
Pineda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	0.47	0.962	Yes	0.33	0.00	0
Pineda fine sand-Urban land complex, 0 to 2 percent slopes	0.49	0.949	Yes	1.02	0.00	0
Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes	0.50	1.337	Yes	0.98	0.00	0
Pompano fine sand, 0 to 2 percent slopes	0.58	1.531	Yes	0.95	0.00	0
Pompano fine sand, frequently ponded, 0 to 1 percent slopes	0.57	1.304	Yes	0.30	0.00	0
Smyrna fine	0.55	1.093	Yes	1.02	0.00	0

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
sand, 0 to 2 percent slopes						
Terra Ceia muck, frequently ponded, 0 to 1 percent slopes	0.45	0.587	Yes	0.30	0.00	0
Valkaria fine sand, 0 to 2 percent slopes	0.57	1.430	Yes	1.02	0.00	0
Valkaria fine sand, frequently ponded, 0 to 1 percent slopes	0.56	1.203	Yes	0.26	0.00	0
Valkaria fine sand, ponded-Urban land complex, 0 to 1 percent slopes	0.55	0.919	Yes	0.30	0.00	0
Water	0.56	1.335	Yes	1.08	0.00	0

Manual Basin: AirportBasin11

Scenario: Scenario1
Node: AirportBasin11
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 43.1000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 213.6318 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
213.6318	AirportBasin11	AirportBasin11			

Comment: OUTFALL TO AIRPORT

Manual Basin: SWALE N2

Scenario: Scenario1
Node: Swale N2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.9200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.9200	SWALE N2	SWALE N2			

Comment:

Manual Basin: SWALE N3

Scenario: Scenario1
Node: SWALE N3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.2200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
1.2200	SWALE N3	SWALE N3			

Comment:

Manual Basin: SWALE N4

Scenario: Scenario1
Node: Swale N4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.0500	SWALE N4	SWALE N4			

Comment:

Manual Basin: TC COMMERCIAL

Scenario: Scenario1
Node: TC COMMERCIAL
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 24.9800 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 39.7700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
39.7700	OFFSITE 1	OFFSITE 1			

Comment:

Node: AirportBasin11

Scenario: Scenario1

Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	30.0000	25.05
0	0	0	40.0000	25.18
0	0	0	60.0000	25.60
0	0	0	64.0000	26.00
0	0	0	80.0000	26.06
0	0	0	100.0000	26.00
0	0	0	240.0000	25.53
0	0	0	360.0000	25.33
0	0	0	999.0000	25.00

Comment:

Node: DS EAST

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.40 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.44	0.0023	100
23.50	0.0046	200
23.75	0.0597	2600
24.00	0.1653	7200
24.25	0.7966	34700
24.50	4.0794	177700
24.75	8.5491	372400
25.00	11.6736	508500
25.25	12.4564	542600
25.50	12.7388	554900
25.75	12.9224	562900
26.00	13.0311	567633
26.25	13.1107	571100
26.50	13.2002	575000
26.75	13.2691	578000
27.00	13.2978	579250
27.25	13.3019	579429
27.50	13.3171	580094
27.75	13.3171	580094

Comment:

Node: DS NORTH

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.60 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.38	0.0002	7
23.63	0.0039	172
23.88	0.0411	1792
24.13	0.1896	8259
24.38	0.5603	24408
24.63	1.2853	55986
24.88	2.6286	114502
25.13	5.6135	244525
25.38	17.8126	775915
25.60	25.1146	1093990
25.60	25.1149	1094004
25.63	58.3810	2543074
25.88	124.9387	5442328
26.13	173.2882	7548432
26.38	202.8519	8836231
26.63	219.3068	9553006
26.88	222.6844	9700132
27.13	224.2488	9768276
27.38	225.1259	9806483
27.63	225.5733	9825974
27.88	225.7749	9834753
28.13	225.8634	9838611
28.38	225.8921	9839860
28.63	225.9034	9840350
28.88	225.9045	9840400

Comment:

Node: DS WEST

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.11	0.0023	100
23.25	0.0061	267
23.50	0.0171	744
23.75	0.0367	1600
24.00	0.1814	7900
24.25	0.5900	25700
24.50	1.2374	53900
24.75	3.3196	144600
25.00	9.7268	423700
25.25	21.3958	932000
25.50	35.4523	1544300
25.75	41.9330	1826600
26.00	43.0257	1874200
26.25	43.6869	1903000
26.50	44.1391	1922700
26.75	44.4192	1934900
27.00	44.5064	1938700
27.25	44.5615	1941100
27.50	44.6162	1943480
27.75	44.6269	1943950
28.00	44.6269	1943950

Comment:

Node: DUMMY 1

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: DUMMY 2

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: Daniels Road

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 9999.00 ft
Warning Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	9999.00
0	0	0	99999.0000	9999.00

Comment: This is a dummy node used to connect a time vs flow rate curve to nodes internal to the development represnting inflows from the equalizer pipes under daniels parkway.

Node: EB OUTFALL DUMMY

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: EB TAILWATER

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 0.00 ft
Boundary Stage: Outfall

Comment:

Node: Swale N2

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: Swale N3

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: Swale N4

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0010	44
999.00	0.0010	44

Comment:

Node: TC COMMERCIAL

Scenario: Scenario1
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
20.30	0.00	0
20.40	0.00	2
20.50	0.00	31
20.60	0.00	115
20.70	0.01	269
20.80	0.01	499
20.90	0.02	835
21.00	0.03	1296
21.10	0.04	1880
21.20	0.06	2582
21.30	0.08	3412
21.40	0.10	4386
21.50	0.13	5535
21.60	0.16	6877
21.70	0.19	8411
21.80	0.23	10146
21.90	0.28	12120
22.00	0.33	14363
22.10	0.39	16888
22.20	0.45	19730
22.30	0.53	22951
22.40	0.61	26588
22.50	0.70	30663
22.60	0.81	35198
22.70	0.92	40276
22.80	1.06	46055
22.90	1.21	52655
23.00	1.38	60315
23.10	1.59	69163
23.20	1.82	79169
23.30	2.07	90340
23.40	2.36	102736
23.50	2.67	116313
23.60	3.01	131014
23.70	3.37	146832
23.80	3.76	163787
23.90	4.18	181930
24.00	4.62	201361
24.10	5.10	222199
24.20	5.61	244413
24.30	6.16	268309
24.40	6.76	294503

Stage [ft]	Volume [ac-ft]	Volume [ft3]
24.50	7.42	323168
24.60	8.15	355110
24.70	9.01	392328
24.80	9.99	435150
24.90	11.12	484221
25.00	12.40	540003
25.10	13.86	603646
25.20	15.53	676604
25.30	17.44	759877
25.40	19.62	854767
25.50	22.08	961713
25.60	24.78	1079351
25.70	27.67	1205304
25.80	30.73	1338568
25.90	33.97	1479666
26.00	37.38	1628324
26.10	40.91	1782246
26.20	44.52	1939479
26.30	48.19	2099086
26.40	51.89	2260352
26.50	55.62	2422768
26.60	59.37	2585987
26.70	63.13	2749787
26.80	66.90	2914054
26.90	70.68	3078743
27.00	74.47	3243829
27.10	78.27	3409272
27.20	82.07	3575064
27.30	85.89	3741195
27.40	89.71	3907670
27.50	93.54	4074517
27.60	97.38	4241752
27.70	101.22	4409338
27.80	105.08	4577233
27.90	108.94	4745416
28.00	112.81	4913885
28.10	116.68	5082642
28.20	120.56	5251676
28.30	124.45	5420962
28.40	128.34	5590479
28.50	132.24	5760208
28.60	136.14	5930141
28.70	140.04	6100272
28.80	143.95	6270598
28.90	147.87	6441113
29.00	151.79	6611802
29.10	155.71	6782658
29.20	159.63	6953673
29.30	163.56	7124843

Stage [ft]	Volume [ac-ft]	Volume [ft3]
29.40	167.50	7296159
29.50	171.43	7467613
29.60	175.37	7639201
29.70	179.31	7810922
29.80	183.26	7982777
29.90	187.21	8154764
30.00	191.16	8326886
30.10	195.11	8499149
30.20	199.07	8671561
30.30	203.03	8844136
30.40	207.00	9016885
30.50	210.97	9189813
30.60	214.94	9362913
30.70	218.92	9536169
30.80	222.90	9709563
30.90	226.88	9883076
31.00	230.87	10056695
31.10	234.86	10230411
31.20	238.85	10404208
31.30	242.84	10578077
31.40	246.83	10752008
31.50	250.83	10925992
31.60	254.82	11100024
31.70	258.82	11274091
31.80	262.81	11448183
31.90	266.81	11622294
32.00	270.81	11796415
32.10	274.81	11970541
32.20	278.80	12144669
32.30	282.80	12318798
32.40	286.80	12492926
32.50	290.80	12667055
32.60	294.79	12841184
32.70	298.79	13015312
32.80	302.79	13189441
32.90	306.79	13363569
33.00	310.78	13537698
33.10	314.78	13711827
33.20	318.78	13885955
33.30	322.78	14060084
33.40	326.77	14234212
33.50	330.77	14408341
33.60	334.77	14582470
33.70	338.76	14756598
33.80	342.76	14930727
33.90	346.76	15104855
34.00	350.76	15278984
20.29	0.00	44
19.00	0.00	44

Comment:

Node: TC TAILWATER

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	30.0000	25.10
0	0	0	60.0000	25.50
0	0	0	73.3800	26.08
0	0	0	240.0000	25.52
0	0	0	360.0000	25.14
0	0	0	999.0000	25.00

Comment:

Node: WETLAND 1

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.74	0.0023	100
21.75	0.0034	150
22.00	0.0253	1100
22.25	0.1102	4800
22.50	0.2296	10000
22.75	0.6152	26800
23.00	1.5496	67500
23.25	2.9017	126400
23.50	6.6047	287700
23.75	18.2094	793200
24.00	39.3411	1713700
24.25	67.0087	2918900
24.50	94.3067	4108000
24.75	119.8669	5221400
25.00	147.7456	6435800

Stage [ft]	Area [ac]	Area [ft2]
25.25	180.9275	7881200
25.50	200.2273	8721900
25.75	206.5381	8996800
26.00	208.9486	9101800
26.25	210.0964	9151800
26.50	210.3135	9161255
26.75	210.3135	9161255

Comment:

Node: WETLAND 2

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.63 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.26	0.0023	100
23.50	0.1056	4600
23.75	0.3558	15500
24.00	0.7714	33600
24.25	1.6575	72200
24.50	4.0725	177400
24.75	8.3012	361600
25.00	14.5156	632300
25.25	20.7300	903000
25.50	26.0376	1134200
25.75	30.1332	1312600
26.00	32.8191	1429600
26.25	33.9279	1477900
26.50	34.2700	1492800
26.75	34.4054	1498700
27.00	34.4697	1501500
27.25	34.5036	1502975
27.50	34.5073	1503137
27.75	34.5073	1503137

Comment:

Node: WETLAND 3

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs

Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.72	0.0023	100
20.75	0.0046	200
21.00	0.0153	667
21.25	0.0228	992
21.50	0.0367	1600
21.75	0.0421	1833
22.00	0.0528	2300
22.25	0.1492	6500
22.50	1.2213	53200
22.75	3.9279	171100
23.00	5.8724	255800
23.25	7.3852	321700
23.50	12.3141	536400
23.75	18.9302	824600
24.00	28.6731	1249000
24.25	35.3329	1539100
24.50	40.1515	1749000
24.75	44.9357	1957400
25.00	52.3072	2278500
25.25	64.3916	2804900
25.50	71.5243	3115600
25.75	74.2126	3232700
26.00	75.2479	3277800
26.25	75.6221	3294100
26.50	75.8196	3302700
26.75	75.9102	3306650
27.00	75.9509	3308420
27.25	75.9718	3309333
27.50	75.9911	3310171
27.75	75.9958	3310375
28.00	75.9958	3310375

Comment:

Node: WETLAND 4

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.20 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.93	0.0023	100

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0046	200
21.25	0.0115	500
21.50	0.1286	5600
21.75	0.3329	14500
22.00	1.9444	84700
22.25	7.1051	309500
22.50	10.7415	467900
22.75	13.0624	569000
23.00	14.6901	639900
23.25	15.9206	693500
23.50	17.1074	745200
23.75	18.3678	800100
24.00	19.6488	855900
24.25	21.5174	937300
24.50	24.3526	1060800
24.75	27.9385	1217000
25.00	31.9192	1390400
25.25	34.4444	1500400
25.50	35.0895	1528500
25.75	35.2583	1535850
26.00	35.2931	1537367
26.25	35.3055	1537908
26.50	35.3055	1537908

Comment:

Node: WETLAND 5

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.16 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.48	0.0023	100
23.50	0.0048	208
23.75	0.0110	479
24.00	0.0436	1900
24.25	0.6635	28900
24.50	3.5514	154700
24.75	7.4105	322800
25.00	8.9669	390600
25.25	9.5569	416300
25.50	9.6855	421900
25.75	9.7245	423600
26.00	9.7521	424800

Stage [ft]	Area [ac]	Area [ft2]
26.25	9.7739	425750
26.50	9.7826	426130
26.75	9.7826	426130

Comment:

Node: WETLAND 6

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.12 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.78	0.0023	100
22.00	0.0964	4200
22.25	0.8242	35900
22.50	1.2213	53200
22.75	1.4555	63400
23.00	1.6345	71200
23.25	1.8526	80700
23.50	2.0615	89800
23.75	2.2153	96500
24.00	2.5161	109600
24.25	2.8444	123900
24.50	3.0647	133500
24.75	3.4871	151900
25.00	5.1309	223500
25.25	6.2879	273900
25.50	6.6781	290900
25.75	6.8113	296700
26.00	6.8503	298400
26.25	6.8652	299050
26.50	6.8744	299450
26.75	6.8781	299612
27.00	6.8781	299612

Comment:

Node: WETLAND 7

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft

Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.36	0.0023	100
21.50	0.0344	1500
21.75	0.6887	30000
22.00	1.3705	59700
22.25	2.0799	90600
22.50	2.7824	121200
22.75	3.9715	173000
23.00	5.3903	234800
23.25	13.7649	599600
23.50	27.7732	1209800
23.75	37.5849	1637200
24.00	45.9160	2000100
24.25	54.2516	2363200
24.50	61.4118	2675100
24.75	67.5781	2943700
25.00	71.7608	3125900
25.25	74.3044	3236700
25.50	75.7920	3301500
25.75	76.8136	3346000
26.00	77.4564	3374000
26.25	77.7778	3388000
26.50	77.9890	3397200
26.75	78.1221	3403000
27.00	78.1680	3405000
27.25	78.1869	3405822
27.50	78.1883	3405881
27.75	78.1883	3405881

Comment: Stage Storage provided via County Lidar

Channel Link: CH-DMY1-DMY2		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.41 ft	Invert:	23.16 ft
From Node:	DUMMY 1	Manning's N:	0.0210	Manning's N:	0.0210
To Node:	DUMMY 2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	999.00 ft	Max Depth:	999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	2.00 ft	Bottom Width:	2.00 ft
Length:	289.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.20	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.20	Op Table:		Op Table:	
Bend Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000

Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SW1-SW2		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	TC COMMERCIAL	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	99999.00 ft	Max Depth:	99999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1264.66 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SWN2-SWN3		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N2	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N3	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1276.49 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	

	Ref Node:		Ref Node:
	Manning's N:	0.0000	Manning's N: 0.0000

Comment:

Channel Link: CH-SWN3-SWN4		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N3	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N4	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1719.15 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SWN4-TC OUTFALL		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N4	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	TC TAILWATER	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	999.00 ft	Max Depth:	999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	70.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Rating Curve Link: CS1-DRD-N3

Scenario: Scenario1
From Node: Daniels Road
To Node: Swale N3
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-12	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-N4

Scenario: Scenario1
From Node: Daniels Road
To Node: Swale N4
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-11	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC COM

Scenario: Scenario1
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-14	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC OUTFALL

Scenario: Scenario1
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-7	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DS1-DRD

Scenario: Scenario1
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-9	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC COM

Scenario: Scenario1
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-15	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC OUTFALL

Scenario: Scenario1
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-8	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DS1-DRD

Scenario: Scenario1
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-13	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC COM

Scenario: Scenario1
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-16	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC OUTFALL

Scenario: Scenario1
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-10	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Drop Structure Link: DS-DMY2-EB TW

Scenario: Scenario1
From Node: DUMMY 2
To Node: EB TAILWATER
Link Count: 1
Flow Direction: Both

Upstream Pipe	Downstream Pipe
Invert: 23.16 ft	Invert: 23.16 ft
Manning's N: 0.0120	Manning's N: 0.0120
Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Max Depth: 2.83 ft	Max Depth: 2.83 ft
Bottom Clip	

Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N2		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	22.53 ft	Invert:	23.60 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	Swale N2	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	195.00 ft	Top Clip			
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000

Bend Location:	0.00 dec
Energy Switch:	Energy

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N3	
Scenario:	Scenario1
From Node:	WETLAND 1
To Node:	Swale N3
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	206.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe	
Invert:	22.36 ft
Manning's N:	0.0140

Geometry: Horizontal Ellipse	
Max Depth:	1.17 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	23.34 ft
Manning's N:	0.0140

Geometry: Horizontal Ellipse	
Max Depth:	1.17 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N4	
Scenario:	Scenario1
From Node:	WETLAND 1
To Node:	Swale N4
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	204.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe	
Invert:	24.08 ft
Manning's N:	0.0140

Geometry: Horizontal Ellipse	
Max Depth:	1.17 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	24.11 ft
Manning's N:	0.0140

Geometry: Horizontal Ellipse	
Max Depth:	1.17 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600

Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-TC COMMERCIAL		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	22.23 ft	Invert:	22.10 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	TC COMMERCIAL	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Flow Direction:	Both	Bottom Clip		Bottom Clip	
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	187.00 ft	Top Clip		Top Clip	
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0100 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.00 ft	Ref Node:	
Max Depth:	9999.00 ft	Discharge Coefficients	
Max Width:	9999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 1-	Upstream Pipe	Downstream Pipe

TIMBER CREEK OUTFALL		Upstream Pipe		Downstream Pipe	
		Invert:	24.74 ft	Invert:	23.88 ft
Scenario:	Scenario1	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	TC TAILWATER	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	160.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.00 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Scenario1	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 1	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000

Damping:	0.0100 ft	Top Clip			
Length:	52.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	36.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 1-TIMBER CREEK OUTFALL		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	24.26 ft	Invert:	24.25 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	TC TAILWATER	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	2	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	177.00 ft	Top Clip			
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft		

Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS3-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	33.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	25.50 ft	Op Table:	
Control Elevation:	25.50 ft	Ref Node:	
Max Depth:	999.00 ft	Discharge Coefficients	
Max Width:	999.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS4-WETLAND 1-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip		Bottom Clip	
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip		Top Clip	
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	999.00 ft	Weir Default:	3.200
Max Width:	999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Weir Link: OW-DANIELS SOUTH- ESTERO BAY		Bottom Clip	
Scenario:	Scenario1	Default:	0.00 ft
From Node:	WETLAND 7	Op Table:	
To Node:	EB TAILWATER	Ref Node:	
Link Count:	1		

Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.20 ft
Control Elevation:	25.00 ft
Cross Section:	OW-WETLAND 1-OUTFALL

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS EAST-WETLAND 6

Scenario:	Scenario1
From Node:	DS EAST
To Node:	WETLAND 6
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.00 ft
Control Elevation:	25.40 ft
Cross Section:	OW-DS EAST-WETLAND 6

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS EAST-WETLAND 7

Scenario:	Scenario1
From Node:	DS EAST
To Node:	WETLAND 7
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	23.74 ft
Control Elevation:	25.40 ft
Cross Section:	OW-DS EAST-WETLAND 7

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS NORTH-WETLAND 2

Scenario:	Scenario1
From Node:	DS NORTH
To Node:	WETLAND 2
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.48 ft
Control Elevation:	25.63 ft
Cross Section:	OW-DS NORTH-WETLAND 2

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS WEST-WETLAND 4

Scenario:	Scenario1
From Node:	DS WEST
To Node:	WETLAND 4
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.57 ft
Control Elevation:	25.50 ft
Cross Section:	OW-DS WEST-WETLAND 4

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-DS WEST-WETLAND 5

Scenario:	Scenario1
From Node:	DS WEST
To Node:	WETLAND 5
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	23.60 ft
Control Elevation:	25.50 ft
Cross Section:	OW-DS WEST-WETLAND 5

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600

	Orifice Table:

Comment:

Weir Link: OW-WETLAND 2-DS EAST

Scenario:	Scenario1
From Node:	WETLAND 2
To Node:	DS EAST
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.41 ft
Control Elevation:	25.63 ft
Cross Section:	OW-WETLAND 2-DS EAST

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 2-WETLAND 3

Scenario:	Scenario1
From Node:	WETLAND 2
To Node:	WETLAND 3
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.62 ft
Control Elevation:	25.63 ft
Cross Section:	OW-WETLAND 2-WETLAND 3

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 3-DS EAST

Scenario:	Scenario1
From Node:	WETLAND 3
To Node:	DS EAST
Link Count:	1
Flow Direction:	Both

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Damping:	0.0000 ft		
Weir Type:	Broad Crested Vertical	Default:	0.00 ft
Geometry Type:	Irregular	Op Table:	
Invert:	25.00 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Cross Section:	OW-WETLAND 3-DS EAST	Weir Default:	2.800
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 3-DS WEST

Scenario:	Scenario1	Bottom Clip	
From Node:	WETLAND 3	Default:	0.00 ft
To Node:	DS WEST	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.02 ft	Discharge Coefficients	
Control Elevation:	25.50 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 3-DS WEST	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 3-WETLAND 4

Scenario:	Scenario1	Bottom Clip	
From Node:	WETLAND 3	Default:	0.00 ft
To Node:	WETLAND 4	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.84 ft	Discharge Coefficients	
Control Elevation:	25.50 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 3-WETLAND 4	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-WETLAND 4-DS EAST

Scenario:	Scenario1
From Node:	WETLAND 4
To Node:	DS EAST
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.84 ft
Control Elevation:	25.40 ft
Cross Section:	OW-WETLAND 4-DS EAST

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 4-WETLAND 5

Scenario:	Scenario1
From Node:	WETLAND 4
To Node:	WETLAND 5
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	24.22 ft
Control Elevation:	25.20 ft
Cross Section:	OW-WETLAND 4-WETLAND 5

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-WETLAND 5-WETLAND 7

Scenario:	Scenario1
From Node:	WETLAND 5
To Node:	WETLAND 7
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.08 ft
Control Elevation:	25.16 ft
Cross Section:	OW-WETLAND 5-WETLAND 7

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600

Orifice Table:	

Comment:

Weir Link: OW-WETLAND 6-WETLAND 7			
Scenario:	Scenario1	Bottom Clip	
From Node:	WETLAND 6	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0000 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	24.74 ft	Discharge Coefficients	
Control Elevation:	25.12 ft	Weir Default:	2.800
Cross Section:	OW-WETLAND 6- WETLAND 7	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Pipe Link: P-DS WEST-DUMMY 1		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.12 ft	Invert:	23.41 ft
From Node:	DS WEST	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DUMMY 1	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-EB OUTFALL DMY-EB TW		Upstream		Downstream	
Scenario:	Scenario1	Invert:	21.95 ft	Invert:	21.84 ft
From Node:	EB OUTFALL DUMMY	Manning's N:	0.0120	Manning's N:	0.0120
		Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	EB TAILWATER	Max Depth:	3.17 ft	Max Depth:	3.17 ft

Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	36.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	1.00	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P1-W7-EB DM		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.65 ft	Invert:	23.75 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Circular		Geometry: Circular	
Link Count:	2	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P2-W7-EB DMY		Upstream		Downstream	
Scenario:	Scenario1	Invert:	24.16 ft	Invert:	24.14 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P3-W7-EB DM		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.41 ft	Invert:	23.41 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P4-W7-EB DMY		Upstream		Downstream	
Scenario:	Scenario1	Invert:	22.84 ft	Invert:	22.76 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P5-W7-EB DMY		Upstream		Downstream	
Scenario:	Scenario1	Invert:	22.75 ft	Invert:	22.68 ft
From Node:	WETLAND 7	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Simulation: 025Y072H

Scenario: Scenario1
Run Date/Time: 5/4/2022 12:26:48 PM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	10.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set: 25yr
Extern Hydrograph Set:
Curve Number Set: CN
Green-Ampt Set: Green-Ampt
Vertical Layers Set:
Impervious Set: Impervious
Roughness Set: Roughness
Crop Coef Set:
Fillable Porosity Set: Porosity
Conductivity Set: Conductivity
Leakage Set: Leakage

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 2.0000 ft
Link Optimizer Tol: 0.0001 ft
Edge Length Option: Automatic
Dflt Damping (2D): 0.0050 ft
Min Node Srf Area (2D): 100 ft2
Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
ET for Manual Basins: False
Smp/Man Basin Rain Opt: Global
OF Region Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.60 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Relative Time [hrs]	Recharge Volume [ac_ft]
0.0000	0.00
1.0000	1.06
2.0000	2.77
3.0000	5.76
4.0000	8.94
5.0000	12.20
6.0000	15.55
7.0000	19.03
8.0000	22.61
9.0000	25.96
10.0000	29.37
11.0000	32.85
12.0000	36.41
13.0000	39.99
14.0000	43.75
15.0000	47.45
16.0000	51.24
17.0000	55.09
18.0000	58.96
19.0000	62.86
20.0000	66.76
21.0000	70.69
22.0000	74.64
23.0000	78.61
24.0000	82.58
25.0000	86.95
26.0000	91.53
27.0000	96.23
28.0000	101.00
29.0000	105.78
30.0000	110.55
31.0000	115.35
32.0000	120.13
33.0000	124.90
34.0000	129.67
35.0000	134.45
36.0000	139.22
37.0000	143.98
38.0000	148.74
39.0000	153.54
40.0000	158.40
41.0000	163.31

Relative Time [hrs]	Recharge Volume [ac_ft]
42.0000	168.12
43.0000	172.92
44.0000	177.66
45.0000	182.49
46.0000	187.25
47.0000	191.92
48.0000	196.65
49.0000	201.55
50.0000	206.41
51.0000	211.59
52.0000	217.01
53.0000	223.28
54.0000	230.75
55.0000	239.02
56.0000	248.52
57.0000	259.44
58.0000	271.86
59.0000	286.28
60.0000	349.93
61.0000	378.15
62.0000	395.44
63.0000	407.91
64.0000	419.02
65.0000	427.79
66.0000	436.40
67.0000	445.00
68.0000	453.47
69.0000	461.18
70.0000	469.26
71.0000	477.36
72.0000	485.22
73.0000	491.17
74.0000	497.17
75.0000	503.24
76.0000	509.13
77.0000	515.02
78.0000	520.91
79.0000	526.79
80.0000	532.68
81.0000	538.56
82.0000	544.44
83.0000	550.32

Relative Time [hrs]	Recharge Volume [ac_ft]
84.0000	556.20
85.0000	562.07
86.0000	567.95
87.0000	573.74
88.0000	579.37
89.0000	585.00
90.0000	590.63
91.0000	596.25
92.0000	601.81
93.0000	607.21
94.0000	612.61
95.0000	618.02
96.0000	623.43
97.0000	628.75
98.0000	634.08
99.0000	639.41
100.0000	644.75
101.0000	650.09
102.0000	655.44
103.0000	660.79
104.0000	666.14
105.0000	671.50
106.0000	676.87
107.0000	682.23
108.0000	687.61
109.0000	692.99
110.0000	698.37
111.0000	703.75
112.0000	709.13
113.0000	714.51
114.0000	719.90
115.0000	725.28
116.0000	730.66
117.0000	736.04
118.0000	741.42
119.0000	746.81
120.0000	752.20
121.0000	757.57
122.0000	762.91
123.0000	768.23
124.0000	773.52
125.0000	778.80

Relative Time [hrs]	Recharge Volume [ac_ft]
126.0000	784.06
127.0000	789.32
128.0000	794.58
129.0000	799.82
130.0000	805.10
131.0000	810.37
132.0000	815.63
133.0000	820.88
134.0000	826.13
135.0000	831.37
136.0000	836.61
137.0000	841.84
138.0000	847.02
139.0000	852.24
140.0000	857.44
141.0000	862.61
142.0000	867.78
143.0000	872.96
144.0000	878.13
145.0000	883.30
146.0000	888.48
147.0000	893.66
148.0000	898.84
149.0000	904.00
150.0000	909.17
151.0000	914.35
152.0000	919.52
153.0000	924.69
154.0000	929.86
155.0000	935.03
156.0000	940.13
157.0000	945.22
158.0000	950.31
159.0000	955.40
160.0000	960.47
161.0000	965.48
162.0000	970.47
163.0000	975.45
164.0000	980.42
165.0000	985.35
166.0000	990.14
167.0000	994.85

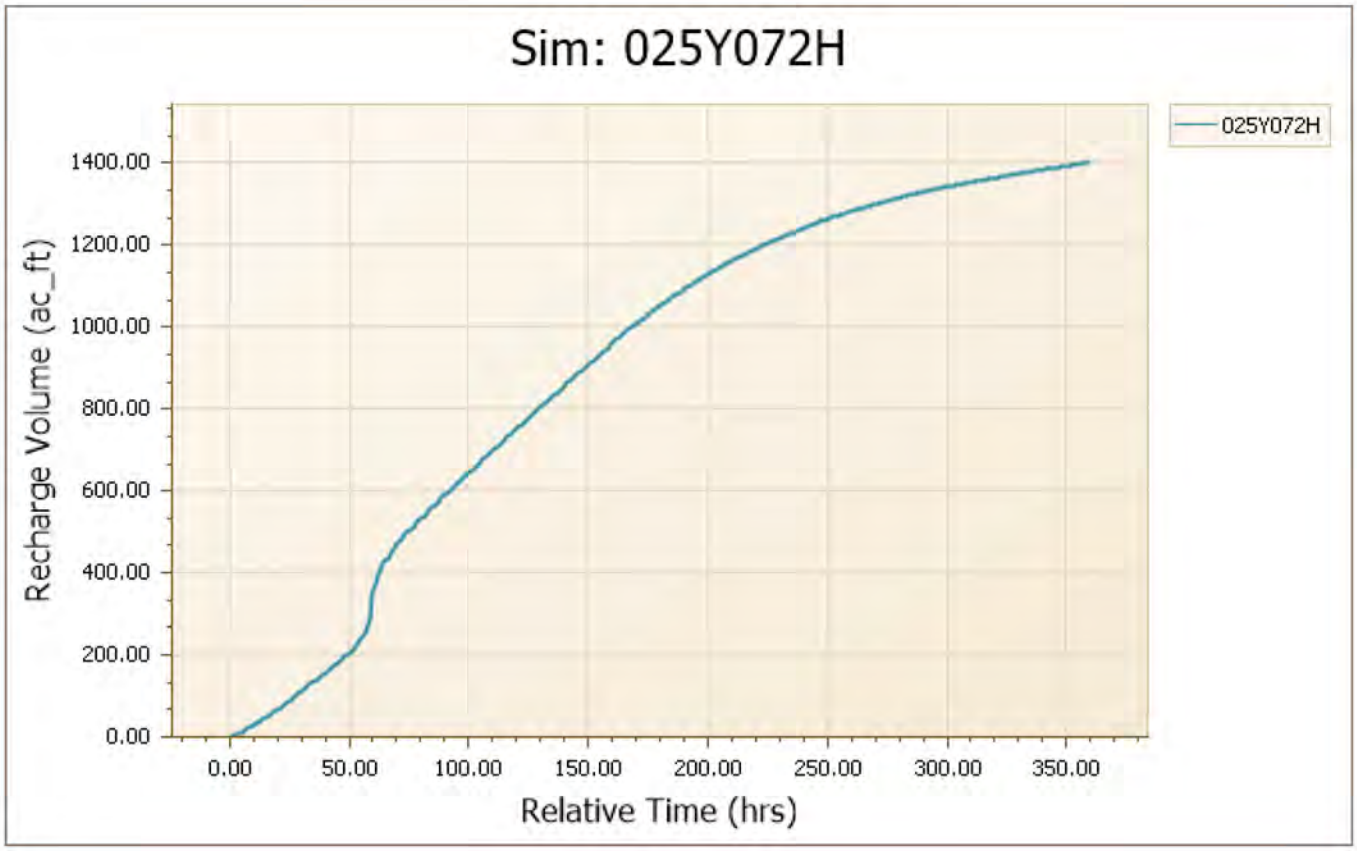
Relative Time [hrs]	Recharge Volume [ac_ft]
168.0000	999.53
169.0000	1004.18
170.0000	1008.81
171.0000	1013.44
172.0000	1018.05
173.0000	1022.60
174.0000	1027.14
175.0000	1031.65
176.0000	1036.14
177.0000	1040.57
178.0000	1044.84
179.0000	1049.04
180.0000	1053.21
181.0000	1057.37
182.0000	1061.49
183.0000	1065.52
184.0000	1069.53
185.0000	1073.53
186.0000	1077.50
187.0000	1081.45
188.0000	1085.40
189.0000	1089.26
190.0000	1093.09
191.0000	1096.92
192.0000	1100.75
193.0000	1104.59
194.0000	1108.38
195.0000	1112.14
196.0000	1115.90
197.0000	1119.67
198.0000	1123.37
199.0000	1127.05
200.0000	1130.67
201.0000	1134.02
202.0000	1137.26
203.0000	1140.48
204.0000	1143.69
205.0000	1146.90
206.0000	1150.07
207.0000	1153.21
208.0000	1156.32
209.0000	1159.41

Relative Time [hrs]	Recharge Volume [ac_ft]
210.0000	1162.48
211.0000	1165.48
212.0000	1168.37
213.0000	1171.26
214.0000	1174.14
215.0000	1177.03
216.0000	1179.91
217.0000	1182.81
218.0000	1185.69
219.0000	1188.56
220.0000	1191.43
221.0000	1194.24
222.0000	1196.93
223.0000	1199.58
224.0000	1202.22
225.0000	1204.86
226.0000	1207.49
227.0000	1210.12
228.0000	1212.74
229.0000	1215.35
230.0000	1217.97
231.0000	1220.55
232.0000	1223.11
233.0000	1225.65
234.0000	1228.18
235.0000	1230.71
236.0000	1233.25
237.0000	1235.76
238.0000	1238.26
239.0000	1240.76
240.0000	1243.25
241.0000	1245.73
242.0000	1248.13
243.0000	1250.48
244.0000	1252.72
245.0000	1254.96
246.0000	1257.14
247.0000	1259.19
248.0000	1261.09
249.0000	1262.95
250.0000	1264.79
251.0000	1266.61

Relative Time [hrs]	Recharge Volume [ac_ft]
252.0000	1268.43
253.0000	1270.24
254.0000	1272.05
255.0000	1273.84
256.0000	1275.63
257.0000	1277.41
258.0000	1279.17
259.0000	1280.94
260.0000	1282.70
261.0000	1284.46
262.0000	1286.22
263.0000	1287.98
264.0000	1289.73
265.0000	1291.48
266.0000	1293.23
267.0000	1294.97
268.0000	1296.70
269.0000	1298.41
270.0000	1300.09
271.0000	1301.75
272.0000	1303.40
273.0000	1305.03
274.0000	1306.62
275.0000	1308.20
276.0000	1309.74
277.0000	1311.26
278.0000	1312.77
279.0000	1314.28
280.0000	1315.78
281.0000	1317.28
282.0000	1318.76
283.0000	1320.24
284.0000	1321.71
285.0000	1323.16
286.0000	1324.61
287.0000	1326.03
288.0000	1327.42
289.0000	1328.77
290.0000	1330.12
291.0000	1331.47
292.0000	1332.77
293.0000	1334.07

Relative Time [hrs]	Recharge Volume [ac_ft]
294.0000	1335.37
295.0000	1336.59
296.0000	1337.78
297.0000	1338.98
298.0000	1340.13
299.0000	1341.25
300.0000	1342.37
301.0000	1343.48
302.0000	1344.59
303.0000	1345.71
304.0000	1346.84
305.0000	1347.97
306.0000	1349.10
307.0000	1350.25
308.0000	1351.39
309.0000	1352.54
310.0000	1353.68
311.0000	1354.82
312.0000	1355.95
313.0000	1357.08
314.0000	1358.18
315.0000	1359.27
316.0000	1360.34
317.0000	1361.41
318.0000	1362.47
319.0000	1363.52
320.0000	1364.56
321.0000	1365.61
322.0000	1366.65
323.0000	1367.70
324.0000	1368.74
325.0000	1369.79
326.0000	1370.75
327.0000	1371.72
328.0000	1372.68
329.0000	1373.65
330.0000	1374.61
331.0000	1375.57
332.0000	1376.54
333.0000	1377.51
334.0000	1378.47
335.0000	1379.44

Relative Time [hrs]	Recharge Volume [ac_ft]
336.0000	1380.41
337.0000	1381.38
338.0000	1382.34
339.0000	1383.29
340.0000	1384.24
341.0000	1385.20
342.0000	1386.16
343.0000	1387.13
344.0000	1388.10
345.0000	1389.08
346.0000	1390.06
347.0000	1391.03
348.0000	1392.01
349.0000	1392.99
350.0000	1393.97
351.0000	1394.95
352.0000	1395.93
353.0000	1396.91
354.0000	1397.89
355.0000	1398.86
356.0000	1399.83
357.0000	1400.79
358.0000	1401.74
359.0000	1402.68
360.0000	1403.62


Sim: 025Y072H
025Y072H
Recharge Volume (ac_ft)
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
0.00
50.00
100.00
150.00
200.00
250.00
300.00
350.00
Relative Time (hrs)

APPENDIX B

PROPOSED CONDITIONS
ICPR REPORTS

Manual Basin: AirportBasin11

Scenario: Scenario1
Node: AirportBasin11
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 43.1000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 213.6318 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
213.6318	AirportBasin11	AirportBasin11			

Comment: OUTFALL TO AIRPORT

Manual Basin: SWALE N2

Scenario: Scenario1
Node: Swale N2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.9200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.9200	SWALE N2	SWALE N2			

Comment:

Manual Basin: SWALE N3

Scenario: Scenario1
Node: Swale N3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.2200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
1.2200	SWALE N3	SWALE N3			

Comment:

Manual Basin: SWALE N4

Scenario: Scenario1
Node: Swale N4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.0500	SWALE N4	SWALE N4			

Comment:

Manual Basin: TC COMMERCIAL

Scenario: Scenario1
Node: TC COMMERCIAL
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 24.9800 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 39.7700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
39.7700	OFFSITE 1	OFFSITE 1			

Comment:

Mapped Basin: BASIN 1

Scenario:	Scenario1
Node:	LAKE 1
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 10

Scenario:	Scenario1
Node:	LAKE 10B
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 11

Scenario:	Scenario1
Node:	LAKE 11
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 12

Scenario:	Scenario1
Node:	LAKE 12A
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 13

Scenario:	Scenario1
Node:	LAKE 13
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 14

Scenario:	Scenario1
Node:	LAKE 14
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 2

Scenario:	Scenario1
Node:	LAKE 2
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 3

Scenario:	Scenario1
Node:	LAKE 3
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 4

Scenario:	Scenario1
Node:	LAKE 4
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 5

Scenario:	Scenario1
Node:	LAKE 5
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 6

Scenario:	Scenario1
Node:	LAKE 6
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 7

Scenario:	Scenario1
Node:	LAKE 7A
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 8

Scenario:	Scenario1
Node:	LAKE 8
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: BASIN 9

Scenario:	Scenario1
Node:	LAKE 9A
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: C1A

Scenario:	Scenario1
Node:	C1
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	34.1486 ac

Comment:

Mapped Basin: C1B

Scenario:	Scenario1
Node:	C1
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	20.0000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	7.3622 ac

Comment:

Mapped Basin: PRESERVE 1

Scenario:	Scenario1
Node:	Preserve 1
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	158.8900 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: WETLAND 1

Scenario:	Scenario1
Node:	WETLAND 1
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	111.3700 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: WETLAND 2

Scenario:	Scenario1
Node:	WETLAND 2
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	165.8600 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: WETLAND 3

Scenario:	Scenario1
Node:	WETLAND 3
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	38.8700 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: WETLAND 4

Scenario:	Scenario1
Node:	WETLAND 4
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	57.4400 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: WETLAND 5

Scenario:	Scenario1
Node:	WETLAND 5
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	100.3800 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: WETLAND 6

Scenario:	Scenario1
Node:	WETLAND 6
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	94.8700 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: WETLAND 7

Scenario:	Scenario1
Node:	WETLAND 7
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	147.7000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Mapped Basin: WETLAND 8

Scenario:	Scenario1
Node:	WETLAND 8
Hydrograph Method:	NRCS Unit Hydrograph
Time of Concentration:	335.2000 min
Max Allowable Q:	9999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	N/A

Comment:

Curve Number: CN [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
AirportBasin11	AirportBasin11	95.5
OFFSITE 1	OFFSITE 1	95.9
SWALE N2	SWALE N2	98.0
SWALE N3	SWALE N3	98.0
SWALE N4	SWALE N4	98.0

Impervious: Impervious [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia Impervious [in]	Ia Pervious [in]
AirportBasin11	0.00	0.00	0.00	0.000	0.000
Develop	70.00	29.80	0.00	0.000	0.000
Lake	98.00	98.00	0.00	0.000	0.000
OFFSITE 1	0.00	0.00	0.00	0.000	0.000
Preserve	0.00	0.00	0.00	0.000	0.000
SWALE N2	0.00	0.00	0.00	0.000	0.000
SWALE N3	0.00	0.00	0.00	0.000	0.000
SWALE N4	0.00	0.00	0.00	0.000	0.000

Green-Ampt: Green-Ampt [Set]

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
Anclote sand, frequently ponded, 0 to 1 percent slopes	24.456	0.4364	0.0190	0.1140	0.1140	0.0380
Brynwood fine sand, wet, 0 to 2 percent slopes	20.095	0.4000	0.0140	0.0880	0.0880	0.0280
Cypress Lake fine sand, 0 to 2 percent slopes	21.843	0.4211	0.0175	0.0980	0.0980	0.0350
Cypress Lake fine sand-Urban land complex, 0 to 2 percent slopes	21.653	0.4716	0.0125	0.0680	0.0680	0.0250
EauGallie sand, 0 to 2 percent slopes	20.654	0.4034	0.0290	0.1290	0.1290	0.0580
Felda fine sand, 0 to 2 percent slopes	23.611	0.4187	0.0210	0.1080	0.1080	0.0420
Felda fine sand, frequently ponded, 0 to 1 percent slopes	21.990	0.4659	0.0260	0.1210	0.1210	0.0520
Felda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	21.187	0.4721	0.0175	0.0780	0.0780	0.0350
Floridana sand, frequently ponded, 0 to 2	9.397	0.4921	0.0655	0.2090	0.2090	0.1310

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
percent slopes						
Floridana sand, ponded-Urban land complex, 0 to 1 percent slopes	10.094	0.4872	0.0385	0.1270	0.1270	0.0770
Gator muck, frequently ponded, 0 to 1 percent slopes	10.226	0.5055	0.0520	0.2630	0.2630	0.1040
Gator muck, ponded-Urban land complex, 0 to 1 percent slopes	12.641	0.5285	0.0320	0.1670	0.1670	0.0640
Immokalee sand, 0 to 2 percent slopes	21.534	0.4261	0.0170	0.0910	0.0910	0.0340
Immokalee sand-Urban land complex, 0 to 2 percent slopes	22.478	0.4260	0.0115	0.0610	0.0610	0.0230
Malabar fine sand, 0 to 2 percent slopes	21.834	0.4510	0.0265	0.1260	0.1260	0.0530
Malabar fine sand, frequently ponded, 0 to 1 percent slopes	22.129	0.4601	0.0265	0.1270	0.1270	0.0530
Malabar fine sand, high, 0 to 2 percent slopes	21.629	0.4730	0.0275	0.1290	0.1290	0.0550
Malabar fine sand, high-Urban	21.326	0.4890	0.0170	0.0800	0.0800	0.0340

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
land complex, 0 to 2 percent slopes						
Malabar fine sand, ponded-Urban land complex, 0 to 1 percent slopes	22.088	0.4850	0.0155	0.0760	0.0760	0.0310
Malabar fine sand-Urban land complex, 0 to 2 percent slopes	21.656	0.4820	0.0165	0.0770	0.0770	0.0330
Myakka fine sand, 0 to 2 percent slopes	22.759	0.4209	0.0175	0.0970	0.0970	0.0350
Myakka fine sand, frequently ponded, 0 to 1 percent slopes	22.686	0.4685	0.0185	0.0970	0.0970	0.0370
Myakka fine sand, ponded-Urban land complex, 0 to 1 percent slopes	22.680	0.4896	0.0115	0.0600	0.0600	0.0230
Oldsmar sand, 0 to 2 percent slopes	14.763	0.4439	0.0415	0.1500	0.1500	0.0830
Oldsmar sand-Urban land, 0 to 2 percent slopes	15.582	0.4897	0.0245	0.0900	0.0900	0.0490
Pineda fine sand,	15.534	0.4790	0.0290	0.1270	0.1270	0.0580

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
frequently ponded, 0 to 1 percent slopes						
Pineda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	15.927	0.4980	0.0170	0.0760	0.0760	0.0340
Pineda fine sand-Urban land complex, 0 to 2 percent slopes	17.717	0.4933	0.0165	0.0780	0.0780	0.0330
Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes	17.157	0.4304	0.0250	0.1170	0.1170	0.0500
Pompano fine sand, 0 to 2 percent slopes	25.339	0.4056	0.0075	0.0650	0.0650	0.0150
Pompano fine sand, frequently ponded, 0 to 1 percent slopes	25.933	0.4334	0.0095	0.0730	0.0730	0.0190
Smyrna fine sand, 0 to 2 percent slopes	24.374	0.4565	0.0140	0.0890	0.0890	0.0280
Terra Ceia muck, frequently ponded, 0 to 1 percent slopes	24.701	0.6777	0.0491	0.4950	0.4950	0.1140
Valkaria fine sand, 0 to 2 percent slopes	25.937	0.4144	0.0100	0.0770	0.0770	0.0200
Valkaria fine	25.998	0.4425	0.0095	0.0760	0.0760	0.0190

Soil Zone	Kv Saturated [fpd]	MC Saturated [dec]	MC Residual [dec]	MC Initial [dec]	MC Field [dec]	MC Wilting [dec]
sand, frequently ponded, 0 to 1 percent slopes						
Valkaria fine sand, ponded-Urban land complex, 0 to 1 percent slopes	25.940	0.4993	0.0060	0.0450	0.0450	0.0120
Water	21.534	0.4261	0.0170	0.0910	0.0910	0.0340

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
Anclote sand, frequently ponded, 0 to 1 percent slopes	0.55	1.287	Yes	0.26	0.00	0
Brynwood fine sand, wet, 0 to 2 percent slopes	0.57	1.854	Yes	0.56	0.00	0
Cypress Lake fine sand, 0 to 2 percent slopes	0.53	1.463	Yes	0.95	0.00	0
Cypress Lake fine sand-Urban land complex, 0 to 2 percent slopes	0.52	1.116	Yes	0.98	0.00	0
EauGallie sand, 0 to 2 percent slopes	0.50	1.809	Yes	1.02	0.00	0
Felda fine sand, 0 to 2 percent slopes	0.52	1.385	Yes	0.98	0.00	0
Felda fine sand, frequently	0.48	1.093	Yes	0.30	0.00	0

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
ponded, 0 to 1 percent slopes						
Felda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	0.47	1.070	Yes	0.36	0.00	0
Floridana sand, frequently ponded, 0 to 2 percent slopes	0.34	1.665	Yes	0.26	0.00	0
Floridana sand, ponded-Urban land complex, 0 to 1 percent slopes	0.35	1.646	Yes	0.30	0.00	0
Gator muck, frequently ponded, 0 to 1 percent slopes	0.39	1.232	Yes	0.07	0.00	0
Gator muck, ponded-Urban land complex, 0 to 1 percent slopes	0.40	1.035	Yes	0.30	0.00	0
Immokalee sand, 0 to 2 percent slopes	0.56	1.335	Yes	1.08	0.00	0
Immokalee sand-Urban land complex, 0 to 2 percent slopes	0.55	1.337	Yes	1.08	0.00	0
Malabar fine sand, 0 to 2	0.49	1.304	Yes	0.98	0.00	0

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
percent slopes						
Malabar fine sand, frequently ponded, 0 to 1 percent slopes	0.48	1.246	Yes	0.30	0.00	0
Malabar fine sand, high, 0 to 2 percent slopes	0.48	1.163	Yes	0.98	0.00	0
Malabar fine sand, high-Urban land complex, 0 to 2 percent slopes	0.47	1.060	Yes	1.02	0.00	0
Malabar fine sand, ponded-Urban land complex, 0 to 1 percent slopes	0.48	1.088	Yes	0.33	0.00	0
Malabar fine sand-Urban land complex, 0 to 2 percent slopes	0.48	1.092	Yes	1.02	0.00	0
Myakka fine sand, 0 to 2 percent slopes	0.55	1.324	Yes	1.05	0.00	0
Myakka fine sand, frequently ponded, 0 to 1 percent slopes	0.55	1.030	Yes	0.33	0.00	0
Myakka fine sand, ponded-Urban land complex, 0	0.54	0.938	Yes	0.39	0.00	0

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
to 1 percent slopes						
Oldsmar sand, 0 to 2 percent slopes	0.43	1.472	Yes	0.95	0.00	0
Oldsmar sand-Urban land, 0 to 2 percent slopes	0.43	1.085	Yes	0.98	0.00	0
Pineda fine sand, frequently ponded, 0 to 1 percent slopes	0.47	1.058	Yes	0.30	0.00	0
Pineda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	0.47	0.962	Yes	0.33	0.00	0
Pineda fine sand-Urban land complex, 0 to 2 percent slopes	0.49	0.949	Yes	1.02	0.00	0
Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes	0.50	1.337	Yes	0.98	0.00	0
Pompano fine sand, 0 to 2 percent slopes	0.58	1.531	Yes	0.95	0.00	0
Pompano fine sand, frequently ponded, 0 to 1 percent slopes	0.57	1.304	Yes	0.30	0.00	0
Smyrna fine	0.55	1.093	Yes	1.02	0.00	0

Soil Zone	Pore Size Index [dec]	Bubble Pressure [in]	Allow Recharge	WT Initial [ft]	Layer Thickness [ft]	# of Cells per Layer
sand, 0 to 2 percent slopes						
Terra Ceia muck, frequently ponded, 0 to 1 percent slopes	0.45	0.587	Yes	0.30	0.00	0
Valkaria fine sand, 0 to 2 percent slopes	0.57	1.430	Yes	1.02	0.00	0
Valkaria fine sand, frequently ponded, 0 to 1 percent slopes	0.56	1.203	Yes	0.26	0.00	0
Valkaria fine sand, ponded-Urban land complex, 0 to 1 percent slopes	0.55	0.919	Yes	0.30	0.00	0
Water	0.56	1.335	Yes	1.08	0.00	0

Manual Basin: AirportBasin11

Scenario: Scenario1
Node: AirportBasin11
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 43.1000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 213.6318 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
213.6318	AirportBasin11	AirportBasin11			

Comment: OUTFALL TO AIRPORT

Manual Basin: SWALE N2

Scenario: Scenario1
Node: Swale N2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.9200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.9200	SWALE N2	SWALE N2			

Comment:

Manual Basin: SWALE N3

Scenario: Scenario1
Node: Swale N3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.2200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
1.2200	SWALE N3	SWALE N3			

Comment:

Manual Basin: SWALE N4

Scenario: Scenario1
Node: Swale N4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.0500	SWALE N4	SWALE N4			

Comment:

Manual Basin: TC COMMERCIAL

Scenario: Scenario1
Node: TC COMMERCIAL
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 24.9800 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 39.7700 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
39.7700	OFFSITE 1	OFFSITE 1			

Comment:

Node: AirportBasin11

Scenario: Scenario1

Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	25.00
0	0	0	30.0000	25.05
0	0	0	40.0000	25.18
0	0	0	60.0000	25.60
0	0	0	64.0000	26.00
0	0	0	80.0000	26.06
0	0	0	100.0000	26.00
0	0	0	240.0000	25.53
0	0	0	360.0000	25.33
0	0	0	999.0000	25.00

Comment:

Node: C1

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	5.5188	240400
13.75	5.5395	241300
14.00	5.5609	242233
14.25	5.5865	243350
14.50	5.6451	245900
14.75	5.6753	247217
15.00	5.6939	248025
15.25	5.7078	248633
15.50	5.7329	249725
15.75	5.7568	250767
16.00	5.8861	256400
16.25	5.9052	257230
16.50	5.9246	258075
16.75	5.9487	259125
17.00	5.9700	260055
17.25	5.9879	260833
17.50	6.0461	263367
17.75	6.0702	264420
18.00	6.0859	265100

Stage [ft]	Area [ac]	Area [ft2]
18.25	6.1042	265900
18.50	6.1151	266375
18.75	6.1371	267333
19.00	6.1685	268700
19.25	6.2176	270840
19.50	6.2511	272300
19.75	6.2797	273544
20.00	6.2957	274240
20.25	6.3189	275250
20.50	6.3545	276800
20.75	6.4114	279280
21.00	6.4991	283100
21.25	6.5207	284043
21.50	6.5404	284900
21.75	6.5634	285900
22.00	6.5813	286680
22.25	6.6357	289050
22.50	6.6562	289943
22.75	6.6784	290911
23.00	6.6988	291800
23.25	6.7160	292550
23.50	6.7348	293367
23.75	6.7906	295800
24.00	6.8251	297300
24.25	6.8431	298087
24.50	6.8779	299600
24.75	6.9092	300967
25.00	6.9246	301636
25.25	6.9444	302500
25.50	7.0097	305343
25.75	7.1143	309900
26.00	7.1534	311600
26.25	7.2348	315150
26.50	7.2758	316933
26.75	7.3049	318200
27.00	7.3485	320100
27.25	7.3801	321475
27.50	7.5339	328176
27.75	7.5339	328176

Comment:

Node: DP DMY 1

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs

Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: DUMMY 1

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.20 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: DUMMY 2

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.20 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: Daniels Road

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 9999.00 ft
Warning Stage: 9999.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	9999.00
0	0	0	99999.0000	9999.00

Comment: This is a dummy node used to connect a time vs flow rate curve to nodes internal to the development represnting inflows from the equalizer pipes under daniels parkway.

Node: EB OUTFALL DUMMY

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: EB TAILWATER

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 9999.00 ft
Boundary Stage: EB Outfall

Comment:

Node: LAKE 1

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	0.7989	34800
13.75	0.8115	35350

Stage [ft]	Area [ac]	Area [ft2]
14.00	0.8232	35860
14.25	0.8284	36085
14.50	0.8586	37400
14.75	0.8678	37803
15.00	0.8694	37872
15.25	0.8747	38100
15.50	0.8953	39000
15.75	0.9056	39446
16.00	0.9176	39971
16.25	0.9252	40300
16.50	0.9364	40792
16.75	0.9402	40953
17.00	0.9556	41625
17.25	0.9745	42450
17.50	0.9848	42900
17.75	0.9908	43159
18.00	0.9949	43337
18.25	1.0037	43720
18.50	1.0155	44233
18.75	1.0354	45100
19.00	1.0408	45337
19.25	1.0503	45750
19.50	1.0629	46300
19.75	1.0704	46625
20.00	1.0813	47100
20.25	1.1035	48067
20.50	1.1093	48322
20.75	1.1192	48752
21.00	1.1222	48883
21.25	1.1341	49400
21.50	1.1499	50090
21.75	1.1739	51133
22.00	1.1829	51525
22.25	1.1930	51967
22.50	1.2079	52618
22.75	1.2119	52792
23.00	1.2202	53153
23.25	1.2328	53700
23.50	1.2471	54325
23.75	1.2501	54454
24.00	1.2524	54555
24.25	1.2706	55345
24.50	1.2925	56300
24.75	1.3011	56675
25.00	1.3149	57278
25.25	1.3302	57945
25.50	1.3379	58280
25.75	1.3494	58782
26.00	1.3705	59700

Stage [ft]	Area [ac]	Area [ft2]
26.25	1.3854	60350
26.50	1.4053	61214
26.75	1.4073	61300
27.00	1.4259	62113
27.25	1.4360	62550
27.50	1.5289	66600
27.75	1.5334	66793
28.00	1.5334	66793

Comment:

Node: LAKE 10A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	0.7163	31200
13.75	0.7239	31532
14.00	0.7287	31740
14.25	0.7405	32257
14.50	0.7481	32588
14.75	0.7545	32867
15.00	0.7773	33857
15.25	0.7923	34512
15.50	0.8040	35024
15.75	0.8140	35457
16.00	0.8206	35745
16.25	0.8299	36150
16.50	0.8434	36737
16.75	0.8460	36850
17.00	0.8530	37158
17.25	0.8627	37580
17.50	0.8705	37920
17.75	0.8792	38300
18.00	0.8930	38900
18.25	0.9045	39400
18.50	0.9152	39867
18.75	0.9236	40230
19.00	0.9397	40933
19.25	0.9453	41178
19.50	0.9541	41563
19.75	0.9630	41950
20.00	0.9803	42700

Stage [ft]	Area [ac]	Area [ft2]
20.25	0.9866	42978
20.50	1.0022	43655
20.75	1.0116	44067
21.00	1.0193	44400
21.25	1.0285	44800
21.50	1.0415	45367
21.75	1.0491	45700
22.00	1.0612	46225
22.25	1.0808	47080
22.50	1.0937	47640
22.75	1.0992	47880
23.00	1.1063	48189
23.25	1.1176	48683
23.50	1.1200	48788
23.75	1.1303	49236
24.00	1.1504	50111
24.25	1.1544	50287
24.50	1.1619	50614
24.75	1.1700	50967
25.00	1.1925	51944
25.25	1.2081	52625
25.50	1.2213	53200
25.75	1.2902	56200
26.00	1.3522	58900
26.25	1.4325	62400
26.50	1.4991	65300
26.75	1.5771	68700
27.00	1.6376	71333
27.25	1.7160	74750
27.50	1.7952	78200
27.75	1.7956	78216
28.00	1.7956	78216

Comment:

Node: LAKE 10B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	1.5702	68400
13.75	1.5725	68496
14.00	1.5978	69600

Stage [ft]	Area [ac]	Area [ft2]
14.25	1.6058	69950
14.50	1.6185	70500
14.75	1.6345	71200
15.00	1.6530	72006
15.25	1.6647	72515
15.50	1.6707	72775
15.75	1.6884	73546
16.00	1.6970	73922
16.25	1.7117	74562
16.50	1.7191	74883
16.75	1.7409	75833
17.00	1.7463	76067
17.25	1.7635	76817
17.50	1.7688	77050
17.75	1.7874	77857
18.00	1.7929	78100
18.25	1.8132	78983
18.50	1.8235	79433
18.75	1.8308	79750
19.00	1.8526	80700
19.25	1.8664	81300
19.50	1.8849	82104
19.75	1.8893	82300
20.00	1.9066	83050
20.25	1.9157	83450
20.50	1.9327	84189
20.75	1.9405	84530
21.00	1.9651	85600
21.25	1.9688	85760
21.50	1.9877	86583
21.75	2.0016	87192
22.00	2.0179	87900
22.25	2.0248	88200
22.50	2.0367	88720
22.75	2.0572	89611
23.00	2.0667	90025
23.25	2.0812	90657
23.50	2.0844	90796
23.75	2.1036	91633
24.00	2.1192	92314
24.25	2.1397	93207
24.50	2.1419	93300
24.75	2.1591	94050
25.00	2.1755	94764
25.25	2.1993	95800
25.50	2.2084	96200
25.75	2.2957	100000
26.00	2.3691	103200
26.25	2.4679	107500

Stage [ft]	Area [ac]	Area [ft2]
26.50	2.5612	111567
26.75	2.6446	115200
27.00	2.7273	118800
27.25	2.7984	121900
27.50	2.9204	127215
27.75	2.9204	127215

Comment:

Node: LAKE 10C

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	1.3499	58800
13.75	1.3728	59800
14.00	1.3935	60700
14.25	1.4118	61500
14.50	1.4311	62340
14.75	1.4391	62688
15.00	1.4478	63064
15.25	1.4564	63440
15.50	1.4622	63692
15.75	1.4711	64079
16.00	1.4819	64550
16.25	1.4932	65043
16.50	1.5021	65433
16.75	1.5160	66037
17.00	1.5214	66270
17.25	1.5283	66574
17.50	1.5361	66911
17.75	1.5433	67225
18.00	1.5684	68320
18.25	1.5880	69175
18.50	1.6065	69980
18.75	1.6276	70900
19.00	1.6506	71900
19.25	1.6667	72600
19.50	1.6855	73420
19.75	1.7001	74055
20.00	1.7029	74180
20.25	1.7129	74614
20.50	1.7268	75220

Stage [ft]	Area [ac]	Area [ft2]
20.75	1.7315	75425
21.00	1.7440	75967
21.25	1.7551	76453
21.50	1.7608	76700
21.75	1.7715	77165
22.00	1.7827	77653
22.25	1.7895	77950
22.50	1.7992	78375
22.75	1.8168	79140
23.00	1.8360	79975
23.25	1.8586	80960
23.50	1.8820	81980
23.75	1.8981	82680
24.00	1.9169	83500
24.25	1.9353	84300
24.50	1.9536	85100
24.75	1.9692	85780
25.00	1.9791	86209
25.25	1.9869	86550
25.50	2.0015	87183
25.75	2.0604	89750
26.00	2.1579	94000
26.25	2.2681	98800
26.50	2.3301	101500
26.75	2.4151	105200
27.00	2.5459	110900
27.25	2.6056	113500
27.50	2.7060	117873
27.75	2.7060	117873

Comment:

Node: LAKE 11

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	5.7277	249500
13.75	5.7622	251000
14.00	5.8161	253350
14.25	5.8460	254650
14.50	5.8781	256050
14.75	5.9183	257800

Stage [ft]	Area [ac]	Area [ft2]
15.00	5.9527	259300
15.25	5.9998	261350
15.50	6.0445	263300
15.75	6.0778	264750
16.00	6.1180	266500
16.25	6.1578	268233
16.50	6.1967	269929
16.75	6.2305	271400
17.00	6.2695	273100
17.25	6.3177	275200
17.50	6.3590	277000
17.75	6.3981	278700
18.00	6.4463	280800
18.25	6.4847	282475
18.50	6.5152	283800
18.75	6.5572	285633
19.00	6.5932	287200
19.25	6.6322	288900
19.50	6.6713	290600
19.75	6.7057	292100
20.00	6.7571	294340
20.25	6.7964	296050
20.50	6.8274	297400
20.75	6.8587	298767
21.00	6.8962	300400
21.25	6.9481	302660
21.50	6.9972	304800
21.75	7.0248	306000
22.00	7.0753	308200
22.25	7.1235	310300
22.50	7.1616	311960
22.75	7.2084	314000
23.00	7.2423	315475
23.25	7.2750	316900
23.50	7.3148	318633
23.75	7.3508	320200
24.00	7.4013	322400
24.25	7.4323	323750
24.50	7.4690	325350
24.75	7.5161	327400
25.00	7.5597	329300
25.25	7.5964	330900
25.50	7.6332	332500
25.75	7.7181	336200
26.00	7.7961	339600
26.25	7.8719	342900
26.50	7.9285	345367
26.75	7.9683	347100
27.00	8.0280	349700

Stage [ft]	Area [ac]	Area [ft2]
27.25	8.0682	351450
27.50	8.2952	361338
27.75	8.2952	361338

Comment:

Node: LAKE 12A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	9.7704	425600
13.75	9.7957	426700
14.00	9.8306	428220
14.25	9.8554	429300
14.50	9.8829	430500
14.75	9.9151	431900
15.00	9.9487	433367
15.25	9.9816	434800
15.50	10.0138	436200
15.75	10.0436	437500
16.00	10.0712	438700
16.25	10.0941	439700
16.50	10.1276	441160
16.75	10.1618	442650
17.00	10.1901	443880
17.25	10.2405	446075
17.50	10.2755	447600
17.75	10.3145	449300
18.00	10.3421	450500
18.25	10.3710	451760
18.50	10.4031	453160
18.75	10.4334	454480
19.00	10.4637	455800
19.25	10.4926	457056
19.50	10.5303	458700
19.75	10.5716	460500
20.00	10.6010	461780
20.25	10.6336	463200
20.50	10.6680	464700
20.75	10.7013	466150
21.00	10.7277	467300
21.25	10.7513	468325

Stage [ft]	Area [ac]	Area [ft2]
21.50	10.7817	469650
21.75	10.8184	471250
22.00	10.8571	472933
22.25	10.8988	474750
22.50	10.9378	476450
22.75	10.9692	477817
23.00	10.9963	479000
23.25	11.0239	480200
23.50	11.0621	481867
23.75	11.0950	483300
24.00	11.1379	485167
24.25	11.1662	486400
24.50	11.2075	488200
24.75	11.2424	489720
25.00	11.2707	490950
25.25	11.3028	492350
25.50	11.3376	493867
25.75	11.3927	496267
26.00	11.4524	498867
26.25	11.5129	501500
26.50	11.5702	504000
26.75	11.6208	506200
27.00	11.6736	508500
27.25	11.7034	509800
27.50	11.8802	517500
27.75	11.8833	517635
28.00	11.8833	517635

Comment:

Node: LAKE 12B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	11.3613	494900
13.75	11.3886	496089
14.00	11.4302	497900
14.25	11.4723	499733
14.50	11.5052	501167
14.75	11.5312	502300
15.00	11.5691	503950
15.25	11.6001	505300

Stage [ft]	Area [ac]	Area [ft2]
15.50	11.6460	507300
15.75	11.6753	508575
16.00	11.7096	510071
16.25	11.7573	512150
16.50	11.7969	513875
16.75	11.8365	515600
17.00	11.8716	517125
17.25	11.9100	518800
17.50	11.9490	520500
17.75	11.9835	522000
18.00	12.0202	523600
18.25	12.0615	525400
18.50	12.1074	527400
18.75	12.1476	529150
19.00	12.1832	530700
19.25	12.2084	531800
19.50	12.2436	533333
19.75	12.2731	534614
20.00	12.3198	536650
20.25	12.3582	538325
20.50	12.3901	539714
20.75	12.4082	540500
21.00	12.4564	542600
21.25	12.5046	544700
21.50	12.5517	546750
21.75	12.5861	548250
22.00	12.6232	549867
22.25	12.6515	551100
22.50	12.6997	553200
22.75	12.7502	555400
23.00	12.7811	556743
23.25	12.8168	558300
23.50	12.8558	560000
23.75	12.8876	561383
24.00	12.9262	563067
24.25	12.9637	564700
24.50	13.0039	566450
24.75	13.0435	568175
25.00	13.0739	569500
25.25	13.1162	571343
25.50	13.1428	572500
25.75	13.2300	576300
26.00	13.2897	578900
26.25	13.3494	581500
26.50	13.3999	583700
26.75	13.4458	585700
27.00	13.4933	587767
27.25	13.5308	589400
27.50	13.7734	599969

Stage [ft]	Area [ac]	Area [ft2]
27.75	13.7734	599969

Comment:

Node: LAKE 13

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	7.5253	327800
13.75	7.5872	330500
14.00	7.6423	332900
14.25	7.7181	336200
14.50	7.7472	337467
14.75	7.8049	339980
15.00	7.8604	342400
15.25	7.9002	344133
15.50	7.9431	346000
15.75	7.9867	347900
16.00	8.0303	349800
16.25	8.0601	351100
16.50	8.1118	353350
16.75	8.1520	355100
17.00	8.2117	357700
17.25	8.2622	359900
17.50	8.3020	361633
17.75	8.3483	363650
18.00	8.3844	365225
18.25	8.4160	366600
18.50	8.4711	369000
18.75	8.5365	371850
19.00	8.5973	374500
19.25	8.6433	376500
19.50	8.6892	378500
19.75	8.7319	380360
20.00	8.7833	382600
20.25	8.8292	384600
20.50	8.8797	386800
20.75	8.9417	389500
21.00	8.9868	391467
21.25	9.0473	394100
21.50	9.0932	396100
21.75	9.1253	397500

Stage [ft]	Area [ac]	Area [ft2]
22.00	9.1758	399700
22.25	9.2111	401233
22.50	9.2505	402950
22.75	9.2879	404580
23.00	9.3136	405700
23.25	9.3618	407800
23.50	9.4169	410200
23.75	9.4800	412950
24.00	9.5500	416000
24.25	9.6051	418400
24.50	9.6579	420700
24.75	9.7016	422600
25.00	9.7452	424500
25.25	9.7865	426300
25.50	9.8362	428467
25.75	9.9082	431600
26.00	9.9725	434400
26.25	10.0367	437200
26.50	10.0999	439950
26.75	10.1802	443450
27.00	10.2468	446350
27.25	10.3076	449000
27.50	10.5969	461600
27.75	10.6192	462573
28.00	10.6192	462573

Comment:

Node: LAKE 14

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	5.7782	251700
13.75	5.8150	253300
14.00	5.8632	255400
14.25	5.9022	257100
14.50	5.9443	258933
14.75	6.0009	261400
15.00	6.0445	263300
15.25	6.0859	265100
15.50	6.1264	266867
15.75	6.1651	268550

Stage [ft]	Area [ac]	Area [ft2]
16.00	6.2052	270300
16.25	6.2415	271880
16.50	6.2867	273850
16.75	6.3186	275240
17.00	6.3613	277100
17.25	6.4084	279150
17.50	6.4539	281133
17.75	6.4888	282650
18.00	6.5220	284100
18.25	6.5680	286100
18.50	6.6047	287700
18.75	6.6552	289900
19.00	6.7167	292580
19.25	6.7530	294160
19.50	6.7943	295960
19.75	6.8381	297867
20.00	6.8687	299200
20.25	6.8980	300475
20.50	6.9449	302520
20.75	6.9959	304740
21.00	7.0271	306100
21.25	7.0611	307580
21.50	7.1174	310033
21.75	7.1648	312100
22.00	7.2153	314300
22.25	7.2544	316000
22.50	7.3041	318167
22.75	7.3309	319333
23.00	7.3760	321300
23.25	7.4265	323500
23.50	7.4656	325200
23.75	7.5069	327000
24.00	7.5436	328600
24.25	7.5826	330300
24.50	7.6217	332000
24.75	7.6648	333880
25.00	7.7083	335775
25.25	7.7479	337500
25.50	7.8007	339800
25.75	7.9086	344500
26.00	7.9695	347150
26.25	8.0303	349800
26.50	8.0900	352400
26.75	8.1359	354400
27.00	8.2071	357500
27.25	8.2453	359167
27.50	8.4917	369900
27.75	8.4920	369911
28.00	8.4920	369911

Comment:

Node: LAKE 2

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	1.6644	72500
13.75	1.6799	73177
14.00	1.6853	73412
14.25	1.6912	73667
14.50	1.6988	74000
14.75	1.7176	74818
15.00	1.7216	74992
15.25	1.7332	75500
15.50	1.7452	76020
15.75	1.7860	77800
16.00	1.8618	81100
16.25	1.8742	81640
16.50	1.8828	82017
16.75	1.8876	82225
17.00	1.8981	82680
17.25	1.9098	83190
17.50	1.9230	83767
17.75	1.9343	84260
18.00	1.9438	84673
18.25	1.9494	84917
18.50	1.9555	85182
18.75	1.9725	85920
19.00	1.9883	86612
19.25	1.9995	87100
19.50	2.0110	87600
19.75	2.0277	88328
20.00	2.0332	88567
20.25	2.0478	89200
20.50	2.0569	89600
20.75	2.1051	91700
21.00	2.1610	94133
21.25	2.1687	94467
21.50	2.1839	95129
21.75	2.1949	95611
22.00	2.2024	95938
22.25	2.2168	96563

Stage [ft]	Area [ac]	Area [ft2]
22.50	2.2314	97200
22.75	2.2399	97569
23.00	2.2595	98425
23.25	2.2715	98944
23.50	2.2859	99575
23.75	2.2953	99982
24.00	2.3095	100600
24.25	2.3212	101113
24.50	2.3271	101367
24.75	2.3383	101856
25.00	2.3454	102167
25.25	2.3554	102600
25.50	2.3636	102960
25.75	2.4245	105611
26.00	2.4409	106325
26.25	2.4656	107400
26.50	2.4797	108015
26.75	2.4860	108289
27.00	2.5100	109336
27.25	2.5170	109640
27.50	2.6791	116700
27.75	2.6793	116710
28.00	2.6793	116710

Comment:

Node: LAKE 3

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	8.3907	365500
13.75	8.4366	367500
14.00	8.4699	368950
14.25	8.5216	371200
14.50	8.5707	373340
14.75	8.6111	375100
15.00	8.6582	377150
15.25	8.7029	379100
15.50	8.7500	381150
15.75	8.7925	383000
16.00	8.8453	385300
16.25	8.9004	387700

Stage [ft]	Area [ac]	Area [ft2]
16.50	8.9532	390000
16.75	9.0025	392150
17.00	9.0473	394100
17.25	9.0955	396200
17.50	9.1563	398850
17.75	9.1988	400700
18.00	9.2493	402900
18.25	9.2856	404480
18.50	9.3320	406500
18.75	9.3756	408400
19.00	9.4164	410180
19.25	9.4674	412400
19.50	9.5106	414280
19.75	9.5615	416500
20.00	9.6044	418367
20.25	9.6534	420500
20.50	9.7016	422600
20.75	9.7461	424540
21.00	9.7911	426500
21.25	9.8427	428750
21.50	9.8967	431100
21.75	9.9449	433200
22.00	10.0054	435833
22.25	10.0562	438050
22.50	10.1079	440300
22.75	10.1412	441750
23.00	10.1928	444000
23.25	10.2502	446500
23.50	10.2973	448550
23.75	10.3421	450500
24.00	10.3739	451886
24.25	10.4201	453900
24.50	10.4683	456000
24.75	10.5165	458100
25.00	10.5659	460250
25.25	10.6084	462100
25.50	10.6680	464700
25.75	10.7323	467500
26.00	10.8219	471400
26.25	10.8930	474500
26.50	10.9879	478633
26.75	11.0491	481300
27.00	11.1203	484400
27.25	11.1869	487300
27.50	11.4456	498569
27.75	11.4456	498569

Comment:

Node: LAKE 4

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	3.1313	136400
13.75	3.1680	138000
14.00	3.1892	138920
14.25	3.2076	139725
14.50	3.2273	140583
14.75	3.2484	141500
15.00	3.2530	141700
15.25	3.2684	142371
15.50	3.2886	143250
15.75	3.3035	143900
16.00	3.3235	144771
16.25	3.3408	145525
16.50	3.3632	146500
16.75	3.3896	147650
17.00	3.4047	148309
17.25	3.4197	148960
17.50	3.4401	149850
17.75	3.4550	150500
18.00	3.4738	151320
18.25	3.4935	152175
18.50	3.5216	153400
18.75	3.5514	154700
19.00	3.5801	155950
19.25	3.5950	156600
19.50	3.6147	157457
19.75	3.6366	158410
20.00	3.6437	158720
20.25	3.6565	159276
20.50	3.6849	160514
20.75	3.7052	161400
21.00	3.7225	162150
21.25	3.7460	163175
21.50	3.7655	164025
21.75	3.7810	164700
22.00	3.8017	165600
22.25	3.8189	166350
22.50	3.8379	167180
22.75	3.8499	167700
23.00	3.8694	168550
23.25	3.8935	169600
23.50	3.9272	171067
23.75	3.9601	172500

Stage [ft]	Area [ac]	Area [ft2]
24.00	3.9848	173580
24.25	4.0037	174400
24.50	4.0197	175100
24.75	4.0409	176023
25.00	4.0511	176467
25.25	4.0680	177200
25.50	4.0955	178400
25.75	4.1340	180075
26.00	4.1701	181650
26.25	4.1978	182857
26.50	4.2279	184167
26.75	4.2447	184900
27.00	4.2654	185800
27.25	4.2998	187300
27.50	4.4292	192936
27.75	4.4292	192936

Comment:

Node: LAKE 5

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	4.1873	182400
13.75	4.2218	183900
14.00	4.2585	185500
14.25	4.2987	187250
14.50	4.3297	188600
14.75	4.3664	190200
15.00	4.3989	191617
15.25	4.4230	192667
15.50	4.4525	193950
15.75	4.4898	195575
16.00	4.5202	196900
16.25	4.5523	198300
16.50	4.5753	199300
16.75	4.6155	201050
17.00	4.6625	203100
17.25	4.6993	204700
17.50	4.7280	205950
17.75	4.7739	207950
18.00	4.8049	209300

Stage [ft]	Area [ac]	Area [ft2]
18.25	4.8416	210900
18.50	4.8768	212433
18.75	4.9097	213867
19.00	4.9388	215133
19.25	4.9782	216850
19.50	5.0264	218950
19.75	5.0497	219967
20.00	5.0803	221300
20.25	5.1159	222850
20.50	5.1485	224267
20.75	5.1860	225900
21.00	5.2198	227375
21.25	5.2502	228700
21.50	5.2841	230175
21.75	5.3329	232300
22.00	5.3696	233900
22.25	5.3844	234543
22.50	5.4224	236200
22.75	5.4660	238100
23.00	5.5022	239675
23.25	5.5280	240800
23.50	5.5693	242600
23.75	5.6107	244400
24.00	5.6503	246125
24.25	5.6899	247850
24.50	5.7208	249200
24.75	5.7495	250450
25.00	5.7725	251450
25.25	5.8012	252700
25.50	5.8299	253950
25.75	5.8804	256150
26.00	5.9298	258300
26.25	5.9747	260260
26.50	6.0239	262400
26.75	6.0721	264500
27.00	6.1218	266667
27.25	6.1559	268150
27.50	6.4357	280338
27.75	6.4357	280338

Comment:

Node: LAKE 6

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs

Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	3.3287	145000
13.75	3.3437	145650
14.00	3.3604	146380
14.25	3.3770	147100
14.50	3.3936	147825
14.75	3.4252	149200
15.00	3.4590	150675
15.25	3.4879	151933
15.50	3.5065	152743
15.75	3.5331	153900
16.00	3.5649	155286
16.25	3.5782	155867
16.50	3.5923	156480
16.75	3.6054	157050
17.00	3.6226	157800
17.25	3.6391	158520
17.50	3.6501	159000
17.75	3.6688	159814
18.00	3.6869	160600
18.25	3.6974	161060
18.50	3.7133	161750
18.75	3.7360	162740
19.00	3.7511	163400
19.25	3.7718	164300
19.50	3.7851	164880
19.75	3.8177	166300
20.00	3.8560	167967
20.25	3.8843	169200
20.50	3.9015	169950
20.75	3.9348	171400
21.00	3.9582	172420
21.25	3.9733	173075
21.50	3.9886	173743
21.75	4.0029	174367
22.00	4.0278	175450
22.25	4.0377	175882
22.50	4.0551	176640
22.75	4.0700	177291
23.00	4.0909	178200
23.25	4.1001	178600
23.50	4.1200	179467
23.75	4.1440	180514
24.00	4.1582	181133
24.25	4.1717	181720
24.50	4.1908	182550
24.75	4.2241	184000

Stage [ft]	Area [ac]	Area [ft2]
25.00	4.2600	185567
25.25	4.2860	186700
25.50	4.3090	187700
25.75	4.3641	190100
26.00	4.3893	191200
26.25	4.4073	191980
26.50	4.4238	192700
26.75	4.4380	193320
27.00	4.4566	194129
27.25	4.4720	194800
27.50	4.6373	202000
27.75	4.6392	202086
28.00	4.6392	202086

Comment:

Node: LAKE 7A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	8.2714	360300
13.75	8.3012	361600
14.00	8.3517	363800
14.25	8.3976	365800
14.50	8.4458	367900
14.75	8.4917	369900
15.00	8.5462	372271
15.25	8.5950	374400
15.50	8.6410	376400
15.75	8.6857	378350
16.00	8.7290	380233
16.25	8.7730	382150
16.50	8.8170	384067
16.75	8.8682	386300
17.00	8.9073	388000
17.25	8.9608	390333
17.50	9.0213	392967
17.75	9.0691	395050
18.00	9.1131	396967
18.25	9.1598	399000
18.50	9.2026	400867
18.75	9.2355	402300

Stage [ft]	Area [ac]	Area [ft2]
19.00	9.2837	404400
19.25	9.3205	406000
19.50	9.3687	408100
19.75	9.4146	410100
20.00	9.4697	412500
20.25	9.5202	414700
20.50	9.5631	416567
20.75	9.6086	418550
21.00	9.6591	420750
21.25	9.7039	422700
21.50	9.7590	425100
21.75	9.8064	427167
22.00	9.8382	428550
22.25	9.9139	431850
22.50	9.9587	433800
22.75	10.0073	435920
23.00	10.0318	436986
23.25	10.0918	439600
23.50	10.1316	441333
23.75	10.1722	443100
24.00	10.2301	445625
24.25	10.2617	447000
24.50	10.3019	448750
24.75	10.3547	451050
25.00	10.4040	453200
25.25	10.4523	455300
25.50	10.4913	457000
25.75	10.5624	460100
26.00	10.6451	463700
26.25	10.7208	467000
26.50	10.8098	470875
26.75	10.8716	473567
27.00	10.9217	475750
27.25	10.9864	478567
27.50	11.2603	490500
27.75	11.2758	491172
28.00	11.2758	491172

Comment:

Node: LAKE 7B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	2.5230	109900
13.75	2.5402	110650
14.00	2.5517	111153
14.25	2.5704	111967
14.50	2.5811	112433
14.75	2.6010	113300
15.00	2.6194	114100
15.25	2.6309	114600
15.50	2.6477	115333
15.75	2.6623	115971
16.00	2.6733	116450
16.25	2.6928	117300
16.50	2.7126	118160
16.75	2.7388	119300
17.00	2.7500	119792
17.25	2.7609	120267
17.50	2.7759	120920
17.75	2.7938	121700
18.00	2.8212	122891
18.25	2.8421	123800
18.50	2.8530	124275
18.75	2.8627	124700
19.00	2.8841	125633
19.25	2.9017	126400
19.50	2.9146	126958
19.75	2.9333	127773
20.00	2.9529	128629
20.25	2.9687	129317
20.50	2.9764	129650
20.75	2.9982	130600
21.00	3.0184	131480
21.25	3.0297	131973
21.50	3.0538	133025
21.75	3.0774	134050
22.00	3.0886	134540
22.25	3.1006	135060
22.50	3.1164	135750
22.75	3.1459	137037
23.00	3.1719	138167
23.25	3.1818	138600
23.50	3.1956	139200
23.75	3.2066	139679
24.00	3.2266	140550
24.25	3.2478	141475
24.50	3.2659	142263
24.75	3.2831	143012
25.00	3.2966	143600
25.25	3.3108	144220

Stage [ft]	Area [ac]	Area [ft2]
25.50	3.3310	145100
25.75	3.3606	146386
26.00	3.3999	148100
26.25	3.4206	149000
26.50	3.4596	150700
26.75	3.4904	152042
27.00	3.4984	152390
27.25	3.4984	152390

Comment:

Node: LAKE 8

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	16.6736	726300
13.75	16.7570	729933
14.00	16.8572	734300
14.25	16.9376	737800
14.50	17.0340	742000
14.75	17.1120	745400
15.00	17.1993	749200
15.25	17.2842	752900
15.50	17.3714	756700
15.75	17.4564	760400
16.00	17.5505	764500
16.25	17.6515	768900
16.50	17.7479	773100
16.75	17.8421	777200
17.00	17.9431	781600
17.25	18.0280	785300
17.50	18.1175	789200
17.75	18.2094	793200
18.00	18.2989	797100
18.25	18.3815	800700
18.50	18.4550	803900
18.75	18.5514	808100
19.00	18.6478	812300
19.25	18.7557	817000
19.50	18.8430	820800
19.75	18.9256	824400
20.00	19.0232	828650

Stage [ft]	Area [ac]	Area [ft2]
20.25	19.1162	832700
20.50	19.1896	835900
20.75	19.2952	840500
21.00	19.3756	844000
21.25	19.4777	848450
21.50	19.5730	852600
21.75	19.6488	855900
22.00	19.7475	860200
22.25	19.8186	863300
22.50	19.9311	868200
22.75	20.0138	871800
23.00	20.1022	875650
23.25	20.1997	879900
23.50	20.2984	884200
23.75	20.3926	888300
24.00	20.5005	893000
24.25	20.6009	897375
24.50	20.6881	901175
24.75	20.7553	904100
25.00	20.8333	907500
25.25	20.9114	910900
25.50	21.0078	915100
25.75	21.1593	921700
26.00	21.3154	928500
26.25	21.4555	934600
26.50	21.6162	941600
26.75	21.7516	947500
27.00	21.8710	952700
27.25	21.9582	956500
27.50	22.4885	979600
27.75	22.5035	980251
28.00	22.5035	980251

Comment:

Node: LAKE 9A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	6.1088	266100
13.75	6.1501	267900
14.00	6.1823	269300

Stage [ft]	Area [ac]	Area [ft2]
14.25	6.2397	271800
14.50	6.2749	273333
14.75	6.3338	275900
15.00	6.3820	278000
15.25	6.4180	279567
15.50	6.4608	281433
15.75	6.4948	282914
16.00	6.5340	284620
16.25	6.5771	286500
16.50	6.6185	288300
16.75	6.6720	290633
17.00	6.7072	292167
17.25	6.7447	293800
17.50	6.7820	295425
17.75	6.8136	296800
18.00	6.8383	297875
18.25	6.8767	299550
18.50	6.9307	301900
18.75	6.9789	304000
19.00	7.0018	305000
19.25	7.0500	307100
19.50	7.0914	308900
19.75	7.1442	311200
20.00	7.1878	313100
20.25	7.2280	314850
20.50	7.2612	316300
20.75	7.3018	318067
21.00	7.3605	320625
21.25	7.4065	322625
21.50	7.4357	323900
21.75	7.4782	325750
22.00	7.5156	327380
22.25	7.5545	329075
22.50	7.5964	330900
22.75	7.6297	332350
23.00	7.6676	334000
23.25	7.7204	336300
23.50	7.7525	337700
23.75	7.8030	339900
24.00	7.8283	341000
24.25	7.8604	342400
24.50	7.8951	343910
24.75	7.9454	346100
25.00	7.9936	348200
25.25	8.0372	350100
25.50	8.0831	352100
25.75	8.1589	355400
26.00	8.2335	358650
26.25	8.3127	362100

Stage [ft]	Area [ac]	Area [ft2]
26.50	8.3815	365100
26.75	8.4562	368350
27.00	8.5055	370500
27.25	8.5451	372225
27.50	8.6793	378068
27.75	8.6793	378068

Comment:

Node: LAKE 9B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
13.50	0.9435	41100
13.75	0.9503	41395
14.00	0.9625	41925
14.25	0.9686	42193
14.50	0.9720	42342
14.75	0.9800	42689
15.00	0.9940	43300
15.25	1.0030	43692
15.50	1.0170	44300
15.75	1.0281	44783
16.00	1.0405	45325
16.25	1.0552	45967
16.50	1.0656	46418
16.75	1.0742	46791
17.00	1.0884	47411
17.25	1.0963	47755
17.50	1.1100	48350
17.75	1.1214	48850
18.00	1.1334	49371
18.25	1.1422	49753
18.50	1.1465	49940
18.75	1.1570	50400
19.00	1.1635	50684
19.25	1.1731	51100
19.50	1.1862	51670
19.75	1.1930	51967
20.00	1.2144	52900
20.25	1.2320	53667
20.50	1.2374	53900

Stage [ft]	Area [ac]	Area [ft2]
20.75	1.2470	54320
21.00	1.2574	54773
21.25	1.2722	55415
21.50	1.2781	55673
21.75	1.2860	56017
22.00	1.2984	56557
22.25	1.3115	57129
22.50	1.3330	58067
22.75	1.3499	58800
23.00	1.3579	59150
23.25	1.3688	59625
23.50	1.3756	59920
23.75	1.3857	60362
24.00	1.3932	60689
24.25	1.3996	60968
24.50	1.4111	61467
24.75	1.4240	62029
25.00	1.4463	63000
25.25	1.4551	63386
25.50	1.4646	63800
25.75	1.4830	64600
26.00	1.4991	65300
26.25	1.5289	66600
26.50	1.5565	67800
26.75	1.5702	68400
27.00	1.5817	68900
27.25	1.5955	69500
27.50	1.6602	72317
27.75	1.6602	72317

Comment:

Node: Preserve 1

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.16 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.48	0.0023	100
23.50	0.0048	208
23.75	0.0110	479
24.00	0.0436	1900
24.25	0.6635	28900
24.50	3.5514	154700

Stage [ft]	Area [ac]	Area [ft2]
24.75	7.4105	322800
25.00	8.9669	390600
25.25	9.5569	416300
25.50	9.6855	421900
25.75	9.7245	423600
26.00	9.7521	424800
26.25	9.7739	425750
26.50	9.7826	426130
26.75	9.7826	426130

Comment:

Node: Swale N2

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
22.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: Swale N3

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0001	4
9999.00	0.0001	4

Comment:

Node: Swale N4

Scenario: Scenario1
Type: Stage/Area

Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Comment:

Node: TC COMMERCIAL

Scenario: Scenario1
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
20.30	0.00	0
20.40	0.00	2
20.50	0.00	31
20.60	0.00	115
20.70	0.01	269
20.80	0.01	499
20.90	0.02	835
21.00	0.03	1296
21.10	0.04	1880
21.20	0.06	2582
21.30	0.08	3412
21.40	0.10	4386
21.50	0.13	5535
21.60	0.16	6877
21.70	0.19	8411
21.80	0.23	10146
21.90	0.28	12120
22.00	0.33	14363
22.10	0.39	16888
22.20	0.45	19730
22.30	0.53	22951
22.40	0.61	26588
22.50	0.70	30663
22.60	0.81	35198
22.70	0.92	40276
22.80	1.06	46055
22.90	1.21	52655
23.00	1.38	60315
23.10	1.59	69163
23.20	1.82	79169
23.30	2.07	90340
23.40	2.36	102736

Stage [ft]	Volume [ac-ft]	Volume [ft3]
23.50	2.67	116313
23.60	3.01	131014
23.70	3.37	146832
23.80	3.76	163787
23.90	4.18	181930
24.00	4.62	201361
24.10	5.10	222199
24.20	5.61	244413
24.30	6.16	268309
24.40	6.76	294503
24.50	7.42	323168
24.60	8.15	355110
24.70	9.01	392328
24.80	9.99	435150
24.90	11.12	484221
25.00	12.40	540003
25.10	13.86	603646
25.20	15.53	676604
25.30	17.44	759877
25.40	19.62	854767
25.50	22.08	961713
25.60	24.78	1079351
25.70	27.67	1205304
25.80	30.73	1338568
25.90	33.97	1479666
26.00	37.38	1628324
26.10	40.91	1782246
26.20	44.52	1939479
26.30	48.19	2099086
26.40	51.89	2260352
26.50	55.62	2422768
26.60	59.37	2585987
26.70	63.13	2749787
26.80	66.90	2914054
26.90	70.68	3078743
27.00	74.47	3243829
27.10	78.27	3409272
27.20	82.07	3575064
27.30	85.89	3741195
27.40	89.71	3907670
27.50	93.54	4074517
27.60	97.38	4241752
27.70	101.22	4409338
27.80	105.08	4577233
27.90	108.94	4745416
28.00	112.81	4913885
28.10	116.68	5082642
28.20	120.56	5251676
28.30	124.45	5420962

Stage [ft]	Volume [ac-ft]	Volume [ft3]
28.40	128.34	5590479
28.50	132.24	5760208
28.60	136.14	5930141
28.70	140.04	6100272
28.80	143.95	6270598
28.90	147.87	6441113
29.00	151.79	6611802
29.10	155.71	6782658
29.20	159.63	6953673
29.30	163.56	7124843
29.40	167.50	7296159
29.50	171.43	7467613
29.60	175.37	7639201
29.70	179.31	7810922
29.80	183.26	7982777
29.90	187.21	8154764
30.00	191.16	8326886
30.10	195.11	8499149
30.20	199.07	8671561
30.30	203.03	8844136
30.40	207.00	9016885
30.50	210.97	9189813
30.60	214.94	9362913
30.70	218.92	9536169
30.80	222.90	9709563
30.90	226.88	9883076
31.00	230.87	10056695
31.10	234.86	10230411
31.20	238.85	10404208
31.30	242.84	10578077
31.40	246.83	10752008
31.50	250.83	10925992
31.60	254.82	11100024
31.70	258.82	11274091
31.80	262.81	11448183
31.90	266.81	11622294
32.00	270.81	11796415
32.10	274.81	11970541
32.20	278.80	12144669
32.30	282.80	12318798
32.40	286.80	12492926
32.50	290.80	12667055
32.60	294.79	12841184
32.70	298.79	13015312
32.80	302.79	13189441
32.90	306.79	13363569
33.00	310.78	13537698
33.10	314.78	13711827
33.20	318.78	13885955

Stage [ft]	Volume [ac-ft]	Volume [ft3]
33.30	322.78	14060084
33.40	326.77	14234212
33.50	330.77	14408341
33.60	334.77	14582470
33.70	338.76	14756598
33.80	342.76	14930727
33.90	346.76	15104855
34.00	350.76	15278984

Comment:

Node: TC TAILWATER

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 25.00 ft
Warning Stage: 9999.00 ft
Boundary Stage: TC Outfall

Comment:

Node: WETLAND 1

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
22.63	0.0023	100
22.75	0.0413	1800
23.00	0.2204	9600
23.25	0.5257	22900
23.50	1.0537	45900
23.75	3.1221	136000
24.00	7.2406	315400
24.25	16.1433	703200
24.50	27.9224	1216300
24.75	38.9004	1694500
25.00	48.2117	2100100
25.25	52.0386	2266800
25.50	53.2668	2320300
25.75	53.7741	2342400

Stage [ft]	Area [ac]	Area [ft2]
26.00	54.0886	2356100
26.25	54.2378	2362600
26.50	54.3388	2367000
26.75	54.3848	2369000
27.00	54.4003	2369675
27.25	54.4222	2370631
27.50	54.4222	2370631

Comment:

Node: WETLAND 2

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.74	0.0023	100
21.75	0.0034	150
22.00	0.0253	1100
22.25	0.1102	4800
22.50	0.2296	10000
22.75	0.5739	25000
23.00	1.3292	57900
23.25	2.3737	103400
23.50	5.5487	241700
23.75	15.0781	656800
24.00	32.1189	1399100
24.25	50.6772	2207500
24.50	64.2309	2797900
24.75	76.6414	3338500
25.00	93.5767	4076200
25.25	120.0023	5227300
25.50	135.6267	5907900
25.75	140.4224	6116800
26.00	142.1671	6192800
26.25	142.7308	6217352
26.50	142.7308	6217352

Comment:

Node: WETLAND 3

Scenario: Scenario1

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.63 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.65	0.0023	100
23.75	0.0230	1000
24.00	0.2158	9400
24.25	0.8425	36700
24.50	2.1602	94100
24.75	3.6088	157200
25.00	5.6795	247400
25.25	7.0753	308200
25.50	7.2786	317056
25.75	7.2825	317225
26.00	7.2858	317370
26.25	7.2874	317440
26.50	7.2874	317440

Comment:

Node: WETLAND 4

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.61 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.26	0.0023	100
23.50	0.1056	4600
23.75	0.3329	14500
24.00	0.5556	24200
24.25	0.8012	34900
24.50	1.8021	78500
24.75	4.1988	182900
25.00	5.9619	259700
25.25	6.7860	295600
25.50	7.4495	324500
25.75	8.6455	376600
26.00	9.2677	403700
26.25	9.4169	410200
26.50	9.5707	416900
26.75	9.6694	421200
27.00	9.7199	423400
27.25	9.7498	424700

Stage [ft]	Area [ac]	Area [ft2]
27.50	9.7587	425090
27.75	9.7661	425413
28.00	9.7661	425413

Comment:

Node: WETLAND 5

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.63 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
23.58	0.0023	100
23.75	0.0076	329
24.00	0.0344	1500
24.25	0.1423	6200
24.50	0.6749	29400
24.75	2.3577	102700
25.00	8.8039	383500
25.25	22.6882	988300
25.50	34.1047	1485600
25.75	40.9642	1784400
26.00	44.1162	1921700
26.25	45.1791	1968000
26.50	45.3994	1977600
26.75	45.4534	1979948
27.00	45.4534	1979948

Comment:

Node: WETLAND 6

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.50 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.72	0.0023	100
20.75	0.0046	200
21.00	0.0151	657
21.25	0.0227	991

Stage [ft]	Area [ac]	Area [ft2]
21.50	0.0367	1600
21.75	0.0421	1833
22.00	0.0528	2300
22.25	0.1492	6500
22.50	1.2213	53200
22.75	3.9302	171200
23.00	5.8724	255800
23.25	7.3829	321600
23.50	12.3049	536000
23.75	18.8820	822500
24.00	28.4963	1241300
24.25	34.8462	1517900
24.50	38.9830	1698100
24.75	42.1786	1837300
25.00	44.7750	1950400
25.25	46.9720	2046100
25.50	48.3448	2105900
25.75	49.2195	2144000
26.00	49.8531	2171600
26.25	50.1699	2185400
26.50	50.3627	2193800
26.75	50.4431	2197300
27.00	50.4894	2199320
27.25	50.5044	2199970
27.50	50.5044	2199970

Comment:

Node: WETLAND 7

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 25.20 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.93	0.0023	100
21.00	0.0046	200
21.25	0.0178	775
21.50	0.1286	5600
21.75	0.3329	14500
22.00	1.9421	84600
22.25	7.1051	309500
22.50	10.7392	467800
22.75	13.0624	569000
23.00	14.6924	640000

Stage [ft]	Area [ac]	Area [ft2]
23.25	15.9275	693800
23.50	17.1258	746000
23.75	18.5101	806300
24.00	19.9495	869000
24.25	22.5551	982500
24.50	28.6708	1248900
24.75	36.6988	1598600
25.00	43.5216	1895800
25.25	46.7998	2038600
25.50	47.7020	2077900
25.75	47.9775	2089900
26.00	48.0647	2093700
26.25	48.1129	2095800
26.50	48.1359	2096800
26.75	48.1703	2098300
27.00	48.1804	2098739
27.25	48.1804	2098739

Comment:

Node: WETLAND 8

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 24.84 ft
Warning Stage: 9999.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.36	0.0023	100
21.50	0.0344	1500
21.75	0.6887	30000
22.00	1.4646	63800
22.25	2.9017	126400
22.50	4.0083	174600
22.75	5.4293	236500
23.00	7.0363	306500
23.25	15.6061	679800
23.50	29.7911	1297700
23.75	39.7429	1731200
24.00	48.3907	2107900
24.25	57.0868	2486700
24.50	64.8347	2824200
24.75	72.8329	3172600
25.00	82.2498	3582800
25.25	88.5055	3855300
25.50	91.1800	3971800

Stage [ft]	Area [ac]	Area [ft2]
25.75	92.5758	4032600
26.00	93.3861	4067900
26.25	93.7833	4085200
26.50	94.0243	4095700
26.75	94.1621	4101700
27.00	94.1939	4103088
27.25	94.1939	4103088

Comment:

Pipe Link: 7 Equalizer		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.00 ft	Invert:	15.00 ft
From Node:	LAKE 7A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 7B	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	490.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: Conceptual equalizer pipe to represent storm sewer connecting individual Basin 7 ponds. Basin 7 ponds are aggregated in 1D model.

Pipe Link: 9 Equalizer		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.00 ft	Invert:	15.00 ft
From Node:	LAKE 9A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 9B	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	430.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: Conceptual equalizer pipe to represent storm sewer connecting individual Basin 9 ponds. Basin 9 ponds are

aggregated in 1D model.

Channel Link: CH-DMY1-DMY2		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.41 ft	Invert:	23.16 ft
From Node:	DUMMY 1	Manning's N:	0.0210	Manning's N:	0.0210
To Node:	DUMMY 2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	999.00 ft	Max Depth:	999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	2.00 ft	Bottom Width:	2.00 ft
Length:	289.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.20	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.20	Op Table:		Op Table:	
Bend Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SW1-SW2		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	TC COMMERCIAL	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N2	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	99999.00 ft	Max Depth:	99999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1264.66 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SWN2-SWN3		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N2	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N3	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	0.00 ft
Length:	1276.49 ft	Left Slope:	3.000 (h:v)	Left Slope:	5.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SWN3-SWN4		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N3	Manning's N:	0.0300	Manning's N:	0.0300
To Node:	Swale N4	Geometry: Trapezoidal		Geometry: Trapezoidal	
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	1719.15 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-SWN4-TC OUTFALL		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.35 ft	Invert:	23.35 ft
From Node:	Swale N4	Manning's N:	0.0300	Manning's N:	0.0300

		Upstream		Downstream	
To Node:	TC TAILWATER	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0000 ft	Bottom Width:	5.00 ft	Bottom Width:	5.00 ft
Length:	70.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.10	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.30	Bottom Clip			
Entr Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: CH-WETLAND 1-DP DMY 1		Upstream		Downstream	
Scenario:	Scenario1	Invert:	25.50 ft	Invert:	25.50 ft
From Node:	WETLAND 1	Manning's N:	0.0500	Manning's N:	0.0500
To Node:	DP DMY 1	Geometry:	Trapezoidal	Geometry:	Trapezoidal
Link Count:	1	Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Flow Direction:	Both	Extrapolation:	Normal	Extrapolation:	Normal
Damping:	0.0100 ft	Bottom Width:	10.00 ft	Bottom Width:	10.00 ft
Length:	2035.00 ft	Left Slope:	3.000 (h:v)	Left Slope:	3.000 (h:v)
Contraction Coef:	0.00	Right Slope:	3.000 (h:v)	Right Slope:	3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip			
Entr Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Exit Loss Coef:	1.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Rating Curve Link: CS1-DRD-N3	
Scenario:	Scenario1
From Node:	Daniels Road
To Node:	Swale N3
Link Count:	1
Flow Direction:	Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-12	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-N4

Scenario: Scenario1
From Node: Daniels Road
To Node: Swale N4
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-11	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curv

Rating Curve Link: CS1-DRD-TC COM

Scenario: Scenario1
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-14	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DRD-TC OUTFALL

Scenario: Scenario1
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-7	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS1-DS1-DRD

Scenario: Scenario1
From Node: Daniels Road
To Node: WETLAND 2
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-9	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC COM

Scenario: Scenario1
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-15	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS2-DRD-TC OUTFALL

Scenario: Scenario1
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-8	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating cur

Rating Curve Link: CS2-DS1-DRD

Scenario: Scenario1
From Node: Daniels Road
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-13	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC COM

Scenario: Scenario1
From Node: Daniels Road
To Node: TC COMMERCIAL
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-16	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Rating Curve Link: CS3-DRD-TC OUTFALL

Scenario: Scenario1
From Node: Daniels Road
To Node: TC TAILWATER
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
CS-10	0.00	Daniels Road	-99999.00	Daniels Road

Comment: This represnts a control structure from Danels Parkway
"From Node" is a dummy node used to trigger the rating curve

Drop Structure Link: DS-BASIN 10-WETLAND 1

Scenario: Scenario1
From Node: LAKE 10B
To Node: WETLAND 1
Link Count: 1
Flow Direction: Both
Solution: Combine
Increments: 0
Pipe Count: 1
Damping: 0.0100 ft
Length: 350.00 ft

Upstream Pipe		Downstream Pipe	
Invert:	19.00 ft	Invert:	19.00 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		Geometry: Circular	
Max Depth:	9999.00 ft	Max Depth:	9999.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft

FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.20	Ref Node:		Ref Node:	
Exit Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	0.25 ft	Weir Default:	3.200
Max Width:	0.69 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	2	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	26.42 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	0.45 ft	Weir Default:	3.200
Max Width:	0.44 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 11-WETLAND 6		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 11	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	WETLAND 6	Geometry: Circular		Geometry: Circular	
		Max Depth:	4.00 ft	Max Depth:	4.00 ft

Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	26.15 ft
Control Elevation:	25.50 ft
Max Depth:	0.50 ft
Max Width:	2.70 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 14-WETLAND 7

Scenario:	Scenario1
From Node:	LAKE 14
To Node:	WETLAND 7
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20

Upstream Pipe		Downstream Pipe	
Invert:	19.00 ft	Invert:	19.00 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		**Geometry: Circular**	
Max Depth:	4.00 ft	Max Depth:	4.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	

Exit Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	26.15 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	0.50 ft	Weir Default:	3.200
Max Width:	2.70 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 8-WETLAND 1		Upstream Pipe		Downstream Pipe	
		Invert:	19.00 ft	Invert:	19.00 ft
Scenario:	Scenario1	Manning's N:	0.0120	Manning's N:	0.0120
From Node:	LAKE 8	Geometry: Circular		Geometry: Circular	
To Node:	WETLAND 1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Link Count:	1	**Bottom Clip**			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	**Top Clip**			
Length:	350.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	2	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1		
Weir Count:	1	Default:	0.00 ft

Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	0.25 ft
Max Width:	3.23 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN 9-WETLAND 5	
Scenario:	Scenario1
From Node:	LAKE 9A
To Node:	WETLAND 5
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	19.00 ft	Invert:	19.00 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		Geometry: Circular	
Max Depth:	4.00 ft	Max Depth:	4.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	0.50 ft
Max Width:	2.70 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200

Fillet:	0.00 ft

Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-BASIN C1-BASIN 2	
Scenario:	Scenario1
From Node:	C1
To Node:	LAKE 2
Link Count:	1
Flow Direction:	Positive
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	350.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe	
Invert:	19.00 ft
Manning's N:	0.0120
Geometry: Circular	
Max Depth:	4.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	19.00 ft
Manning's N:	0.0120
Geometry: Circular	
Max Depth:	4.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	0.50 ft
Max Width:	1.25 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-DMY2-EB TW		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	23.16 ft	Invert:	23.36 ft
From Node:	DUMMY 2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB TAILWATER	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.20	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-DP DMY 1-TC COMMERCIAL		Upstream Pipe		Downstream Pipe	
		Invert:	22.23 ft	Invert:	22.23 ft
Scenario:	Scenario1	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	DP DMY 1	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	TC COMMERCIAL	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000

Damping:	0.0100 ft
Length:	187.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.50
Bend Location:	0.00 dec
Energy Switch:	Energy

Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.30 ft
Control Elevation:	25.30 ft
Max Depth:	999.00 ft
Max Width:	999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N2	
Scenario:	Scenario1
From Node:	WETLAND 1
To Node:	Swale N2
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	195.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	22.53 ft	Invert:	22.53 ft
Manning's N:	0.0140	Manning's N:	0.0140
Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Max Depth:	1.58 ft	Max Depth:	1.58 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	**Discharge Coefficients**	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 1-SWALE N3		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	22.36 ft	Invert:	22.34 ft
From Node:	WETLAND 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	Swale N3	**Geometry: Horizontal Ellipse**		**Geometry: Horizontal Ellipse**	
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Flow Direction:	Both	**Bottom Clip**			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	206.00 ft	**Top Clip**			
FHWA Code:	30	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft		

Control Elevation:	25.50 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 2-SWALE N4		Upstream Pipe		Downstream Pipe	
		Invert:	24.08 ft	Invert:	24.11 ft
Scenario:	Scenario1	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	Swale N4	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	204.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	30	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS-WETLAND 2-WETLAND DMY		Upstream Pipe		Downstream Pipe	
		Invert:	19.00 ft	Invert:	19.00 ft
Scenario:	Scenario1	Manning's N:	0.0120	Manning's N:	0.0120
From Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
To Node:	WETLAND 5	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0000 ft	Top Clip			
Length:	1650.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.20	Ref Node:		Ref Node:	
Exit Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0100 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.80 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	25.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Scenario1	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft

Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	52.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS1-WETLAND 2-TIMBER CREEK OUTFALL

Scenario:	Scenario1
From Node:	WETLAND 2
To Node:	TC TAILWATER
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0100 ft
Length:	160.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50

Upstream Pipe		Downstream Pipe	
Invert:	24.74 ft	Invert:	23.88 ft
Manning's N:	0.0140	Manning's N:	0.0140
Geometry: Horizontal Ellipse		**Geometry: Horizontal Ellipse**	
Max Depth:	1.17 ft	Max Depth:	1.17 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	

Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.00 ft	**Discharge Coefficients**	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Scenario1	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	36.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1		
Weir Count:	1	Default:	0.00 ft

Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.50 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS2-WETLAND 2-TIMBER CREEK OUTFALL	
Scenario:	Scenario1
From Node:	WETLAND 2
To Node:	TC TAILWATER
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	2
Damping:	0.0000 ft
Length:	177.00 ft
FHWA Code:	30
Entr Loss Coef:	0.50
Exit Loss Coef:	1.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe		Downstream Pipe	
Invert:	24.26 ft	Invert:	24.25 ft
Manning's N:	0.0140	Manning's N:	0.0140
Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Max Depth:	1.17 ft	Max Depth:	1.17 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	25.50 ft
Control Elevation:	25.00 ft
Max Depth:	9999.00 ft
Max Width:	9999.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200

Fillet:	0.00 ft

Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS3-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
		Invert:	23.50 ft	Invert:	23.50 ft
Scenario:	Scenario1	Manning's N:	0.0140	Manning's N:	0.0140
From Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
To Node:	AirportBasin11	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000
Damping:	0.0100 ft	Top Clip			
Length:	33.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	
Entr Loss Coef:	0.50	Ref Node:		Ref Node:	
Exit Loss Coef:	1.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: DS4-WETLAND 2-AIRPORT BASIN 11		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	23.50 ft	Invert:	23.50 ft
From Node:	WETLAND 2	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	AirportBasin11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0100 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	31.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Arch Structural Plate	Op Table:	
Invert:	25.50 ft	Ref Node:	
Control Elevation:	25.50 ft	Discharge Coefficients	
Max Depth:	9999.00 ft	Weir Default:	3.200
Max Width:	9999.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Pipe Link: L-0030P		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.00 ft	Invert:	15.00 ft
From Node:	LAKE 10A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 10B	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	260.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	

Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: Conceptual equalizer pipe to represent storm sewer connecting individual Basin 10 ponds. Basin 10 ponds are aggregated in 1D model.

Pipe Link: L-0040P		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.00 ft	Invert:	15.00 ft
From Node:	LAKE 10B	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 10C	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1147.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: Conceptual equalizer pipe to represent storm sewer connecting individual Basin 10 ponds. Basin 10 ponds are aggregated in 1D model.

Pipe Link: L-0050P		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.00 ft	Invert:	15.00 ft
From Node:	LAKE 12A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 12B	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	130.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: Conceptual equalizer pipe to represent storm sewer connecting individual Basin 12 ponds. Basin 12 ponds are aggregated in 1D model.

Pipe Link: L-0340P		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 13	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 7A	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	3300.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: L-0640P		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.12 ft	Invert:	23.41 ft
From Node:	Preserve 1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DUMMY 1	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	31.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Weir Link: OW-PRESERVE 1- WETLAND 8			
Scenario:	Scenario1	Bottom Clip	
From Node:	Preserve 1	Default:	0.00 ft
To Node:	WETLAND 8	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.12 ft	Discharge Coefficients	
Control Elevation:	25.08 ft	Weir Default:	2.800

Cross Section:	OW-PRESERVE 1-WETLAND 8		
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-PRESERVE 1-W7

Scenario:	Scenario1	Bottom Clip	
From Node:	Preserve 1	Default:	0.00 ft
To Node:	WETLAND 7	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.12 ft	Discharge Coefficients	
Control Elevation:	25.08 ft	Weir Default:	2.800
Cross Section:	OW-PRESERVE 1-WETLAND 8	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W3-W5

Scenario:	Scenario1	Bottom Clip	
From Node:	WETLAND 3	Default:	0.00 ft
To Node:	WETLAND 5	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.68 ft	Discharge Coefficients	
Control Elevation:	25.63 ft	Weir Default:	2.800
Cross Section:	OW-W3-W5	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Weir Link: OW-W5-W6

Scenario:	Scenario1	Bottom Clip	
From Node:	WETLAND 5	Default:	0.00 ft
To Node:	WETLAND 6	Op Table:	

Link Count:	1
Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.37 ft
Control Elevation:	25.32 ft
Cross Section:	OW-W5-W6

Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-W6-W7

Scenario:	Scenario1
From Node:	WETLAND 6
To Node:	WETLAND 7
Link Count:	1
Flow Direction:	Both
Damping:	0.0100 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.20 ft
Control Elevation:	25.16 ft
Cross Section:	W6-W7

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-W7-EB TW DMY

Scenario:	Scenario1
From Node:	WETLAND 8
To Node:	EB TAILWATER
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Broad Crested Vertical
Geometry Type:	Irregular
Invert:	25.20 ft
Control Elevation:	25.00 ft
Cross Section:	OW-W7-EB TW DMY

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: OW-W7-W8			
Scenario:	Scenario1	Bottom Clip	
From Node:	WETLAND 7	Default:	0.00 ft
To Node:	WETLAND 8	Op Table:	
Link Count:	1	Ref Node:	
Flow Direction:	Both	Top Clip	
Damping:	0.0100 ft	Default:	0.00 ft
Weir Type:	Broad Crested Vertical	Op Table:	
Geometry Type:	Irregular	Ref Node:	
Invert:	25.27 ft	Discharge Coefficients	
Control Elevation:	25.00 ft	Weir Default:	2.800
Cross Section:	W7-W8	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Comment:

Pipe Link: P-BASIN 1-BASIN 3		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 3	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 11-BASIN 9		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 11	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 9A	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1860.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft

Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 12-BASIN 11		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 12A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	3501542.38 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 14-BASIN 13		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 14	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 13	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 2-BASIN 3		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 2	Manning's N:	0.0120	Manning's N:	0.0120

To Node:	LAKE 3	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 4		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 4	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 5		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 5	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	

		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 3-BASIN 6		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 6	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 4-BASIN 7		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 7A	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 5-BASIN 8		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 5	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 8	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft

Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 6-BASIN 8		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 6	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 8	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	2	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 7-BASIN 8		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 7A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 8	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 7-BASIN 9		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 7A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 9A	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-BASIN 8-BASIN 9		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	LAKE 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	LAKE 9A	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: P-EB OUTFALL-EB TW		Upstream		Downstream	
Scenario:	Scenario1	Invert:	21.95 ft	Invert:	21.84 ft
From Node:	EB OUTFALL	Manning's N:	0.0120	Manning's N:	0.0120
	DUMMY	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
To Node:	EB TAILWATER	Max Depth:	3.17 ft	Max Depth:	3.17 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	36.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			

Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P-WETLAND 1-WETLAND 2		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	WETLAND 1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	WETLAND 2	Geometry: Circular		Geometry: Circular	
Link Count:	3	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	250.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P-WETLAND 4-WETLAND 5		Upstream		Downstream	
Scenario:	Scenario1	Invert:	19.00 ft	Invert:	19.00 ft
From Node:	WETLAND 4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	WETLAND 5	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0100 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	350.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P1-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.65 ft	Invert:	23.75 ft

From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	2	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P2-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Scenario1	Invert:	24.16 ft	Invert:	24.14 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
	DUMMY	Max Depth:	2.83 ft	Max Depth:	2.83 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P3-DS-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Scenario1	Invert:	23.41 ft	Invert:	23.41 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	

Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P4-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Scenario1	Invert:	22.84 ft	Invert:	22.76 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P5-W7-EB TW DMY		Upstream		Downstream	
Scenario:	Scenario1	Invert:	22.75 ft	Invert:	22.68 ft
From Node:	WETLAND 8	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	EB OUTFALL	Geometry: Circular		Geometry: Circular	
	DUMMY	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0100 ft	Op Table:		Op Table:	
Length:	31.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.20	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Simulation: 025Y072H	
Scenario:	Scenario1
Run Date/Time:	5/14/2022 6:34:30 PM
Program Version:	ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	15.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	48.0000	15.0000
0	0	0	55.0000	15.0000
0	0	0	61.0000	15.0000
0	0	0	72.0000	60.0000
0	0	0	360.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	360.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set: 25yr
Extern Hydrograph Set:
Curve Number Set: CN

Green-Ampt Set:	Green-Ampt
Vertical Layers Set:	
Impervious Set:	Impervious
Roughness Set:	Roughness
Crop Coef Set:	
Fillable Porosity Set:	Porosity
Conductivity Set:	Conductivity
Leakage Set:	Leakage

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~SFWMD-72
		Rainfall Amount:	10.60 in
Edge Length Option:	Automatic	Storm Duration:	72.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D):	100 ft2	Min Node Srf Area (1D):	100 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Relative Time [hrs]	Recharge Volume [ac_ft]
0.0000	0.00
1.0000	0.87
2.0000	2.26
3.0000	4.40
4.0000	6.71
5.0000	9.06
6.0000	11.42
7.0000	13.81
8.0000	16.24
9.0000	18.70
10.0000	21.18
11.0000	23.65
12.0000	26.14
13.0000	28.68
14.0000	31.27
15.0000	33.89
16.0000	36.56
17.0000	39.28
18.0000	42.01
19.0000	44.80
20.0000	47.63
21.0000	50.50
22.0000	53.41
23.0000	56.37
24.0000	59.39
25.0000	62.60
26.0000	65.93
27.0000	69.38
28.0000	72.93
29.0000	76.57
30.0000	80.31
31.0000	84.15
32.0000	88.03
33.0000	91.86
34.0000	95.79
35.0000	99.78
36.0000	103.82
37.0000	107.92
38.0000	112.08
39.0000	116.26
40.0000	120.47
41.0000	124.71

Relative Time [hrs]	Recharge Volume [ac_ft]
42.0000	128.98
43.0000	133.26
44.0000	137.57
45.0000	141.88
46.0000	146.22
47.0000	150.56
48.0000	154.91
49.0000	159.35
50.0000	163.86
51.0000	168.57
52.0000	173.50
53.0000	178.97
54.0000	185.28
55.0000	193.14
56.0000	202.24
57.0000	212.61
58.0000	224.73
59.0000	239.64
60.0000	307.95
61.0000	350.66
62.0000	370.72
63.0000	384.98
64.0000	397.03
65.0000	406.51
66.0000	415.21
67.0000	423.58
68.0000	431.84
69.0000	439.59
70.0000	446.85
71.0000	453.79
72.0000	460.83
73.0000	466.96
74.0000	472.70
75.0000	478.23
76.0000	483.63
77.0000	488.95
78.0000	494.18
79.0000	499.35
80.0000	504.49
81.0000	509.60
82.0000	514.69
83.0000	519.76

Relative Time [hrs]	Recharge Volume [ac_ft]
84.0000	524.82
85.0000	529.86
86.0000	534.89
87.0000	539.90
88.0000	544.92
89.0000	549.93
90.0000	554.93
91.0000	559.94
92.0000	564.94
93.0000	569.94
94.0000	574.94
95.0000	579.94
96.0000	584.93
97.0000	589.93
98.0000	594.92
99.0000	599.92
100.0000	604.91
101.0000	609.91
102.0000	614.89
103.0000	619.87
104.0000	624.68
105.0000	629.35
106.0000	634.03
107.0000	638.70
108.0000	643.38
109.0000	648.05
110.0000	652.60
111.0000	657.04
112.0000	661.48
113.0000	665.92
114.0000	670.35
115.0000	674.79
116.0000	679.21
117.0000	683.64
118.0000	688.06
119.0000	692.49
120.0000	696.92
121.0000	701.35
122.0000	705.79
123.0000	710.22
124.0000	714.65
125.0000	719.02

Relative Time [hrs]	Recharge Volume [ac_ft]
126.0000	723.37
127.0000	727.71
128.0000	732.04
129.0000	736.38
130.0000	740.72
131.0000	745.06
132.0000	749.40
133.0000	753.74
134.0000	758.08
135.0000	762.43
136.0000	766.78
137.0000	771.13
138.0000	775.48
139.0000	779.83
140.0000	784.19
141.0000	788.55
142.0000	792.91
143.0000	797.27
144.0000	801.64
145.0000	806.00
146.0000	810.38
147.0000	814.75
148.0000	819.12
149.0000	823.49
150.0000	827.85
151.0000	832.17
152.0000	836.50
153.0000	840.83
154.0000	845.16
155.0000	849.49
156.0000	853.82
157.0000	858.15
158.0000	862.49
159.0000	866.83
160.0000	871.16
161.0000	875.44
162.0000	879.65
163.0000	883.87
164.0000	888.09
165.0000	892.30
166.0000	896.51
167.0000	900.71

Relative Time [hrs]	Recharge Volume [ac_ft]
168.0000	904.92
169.0000	909.12
170.0000	913.31
171.0000	917.51
172.0000	921.70
173.0000	925.90
174.0000	930.10
175.0000	934.30
176.0000	938.50
177.0000	942.71
178.0000	946.91
179.0000	951.12
180.0000	955.33
181.0000	959.54
182.0000	963.75
183.0000	967.90
184.0000	972.03
185.0000	976.16
186.0000	980.29
187.0000	984.42
188.0000	988.55
189.0000	992.68
190.0000	996.82
191.0000	1000.95
192.0000	1005.10
193.0000	1009.25
194.0000	1013.37
195.0000	1017.45
196.0000	1021.50
197.0000	1025.58
198.0000	1029.67
199.0000	1033.73
200.0000	1037.79
201.0000	1041.83
202.0000	1045.88
203.0000	1049.93
204.0000	1053.96
205.0000	1057.96
206.0000	1061.96
207.0000	1065.97
208.0000	1069.97
209.0000	1073.98

Relative Time [hrs]	Recharge Volume [ac_ft]
210.0000	1077.99
211.0000	1082.00
212.0000	1086.00
213.0000	1090.01
214.0000	1094.01
215.0000	1098.01
216.0000	1102.01
217.0000	1106.01
218.0000	1110.01
219.0000	1113.93
220.0000	1117.85
221.0000	1121.71
222.0000	1125.57
223.0000	1129.43
224.0000	1133.30
225.0000	1137.18
226.0000	1141.06
227.0000	1144.94
228.0000	1148.83
229.0000	1152.73
230.0000	1156.62
231.0000	1160.50
232.0000	1164.37
233.0000	1168.24
234.0000	1172.11
235.0000	1175.97
236.0000	1179.84
237.0000	1183.69
238.0000	1187.55
239.0000	1191.41
240.0000	1195.27
241.0000	1199.14
242.0000	1203.00
243.0000	1206.85
244.0000	1210.69
245.0000	1214.51
246.0000	1218.25
247.0000	1221.99
248.0000	1225.71
249.0000	1229.44
250.0000	1233.15
251.0000	1236.85

Relative Time [hrs]	Recharge Volume [ac_ft]
252.0000	1240.49
253.0000	1244.11
254.0000	1247.72
255.0000	1251.35
256.0000	1254.97
257.0000	1258.61
258.0000	1262.22
259.0000	1265.84
260.0000	1269.44
261.0000	1273.03
262.0000	1276.61
263.0000	1280.17
264.0000	1283.72
265.0000	1287.25
266.0000	1290.74
267.0000	1294.10
268.0000	1297.37
269.0000	1300.62
270.0000	1303.86
271.0000	1307.07
272.0000	1310.18
273.0000	1313.22
274.0000	1316.23
275.0000	1319.23
276.0000	1322.20
277.0000	1325.13
278.0000	1328.01
279.0000	1330.88
280.0000	1333.74
281.0000	1336.59
282.0000	1339.42
283.0000	1342.24
284.0000	1345.03
285.0000	1347.83
286.0000	1350.62
287.0000	1353.40
288.0000	1356.16
289.0000	1358.89
290.0000	1361.59
291.0000	1364.28
292.0000	1366.97
293.0000	1369.61

Relative Time [hrs]	Recharge Volume [ac_ft]
294.0000	1372.19
295.0000	1374.77
296.0000	1377.35
297.0000	1379.93
298.0000	1382.49
299.0000	1385.00
300.0000	1387.48
301.0000	1389.89
302.0000	1392.29
303.0000	1394.67
304.0000	1396.99
305.0000	1399.31
306.0000	1401.60
307.0000	1403.86
308.0000	1406.13
309.0000	1408.37
310.0000	1410.61
311.0000	1412.83
312.0000	1415.04
313.0000	1417.24
314.0000	1419.43
315.0000	1421.59
316.0000	1423.72
317.0000	1425.83
318.0000	1427.99
319.0000	1430.13
320.0000	1432.25
321.0000	1434.35
322.0000	1436.42
323.0000	1438.42
324.0000	1440.33
325.0000	1442.22
326.0000	1444.10
327.0000	1445.98
328.0000	1447.83
329.0000	1449.67
330.0000	1451.48
331.0000	1453.28
332.0000	1455.05
333.0000	1456.82
334.0000	1458.57
335.0000	1460.32

Relative Time [hrs]	Recharge Volume [ac_ft]
336.0000	1462.06
337.0000	1463.80
338.0000	1465.52
339.0000	1467.22
340.0000	1468.92
341.0000	1470.60
342.0000	1472.27
343.0000	1473.95
344.0000	1475.59
345.0000	1477.20
346.0000	1478.69
347.0000	1480.16
348.0000	1481.61
349.0000	1483.05
350.0000	1484.46
351.0000	1485.83
352.0000	1487.19
353.0000	1488.54
354.0000	1489.88
355.0000	1491.21
356.0000	1492.53
357.0000	1493.69
358.0000	1494.81
359.0000	1495.85
360.0000	1496.89

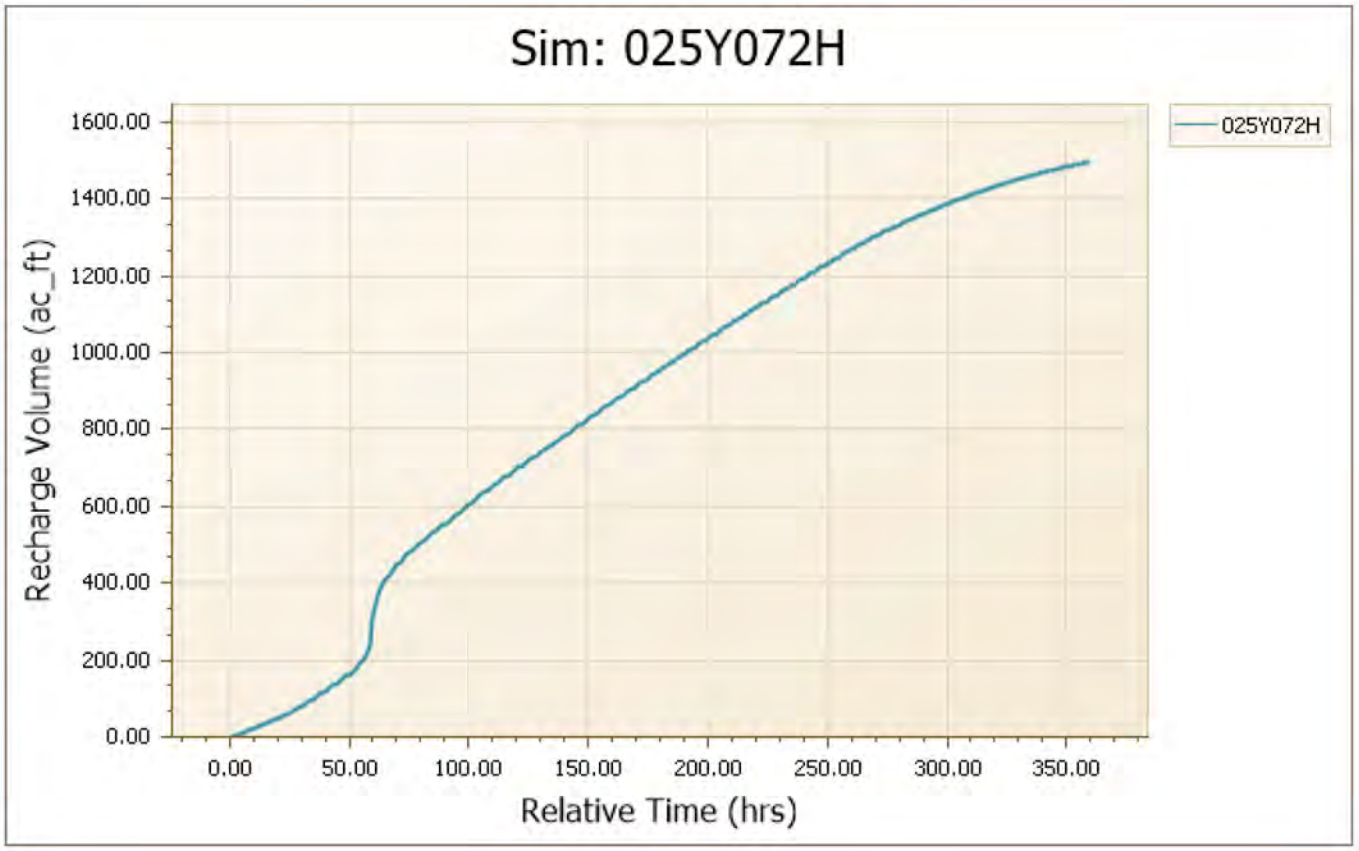
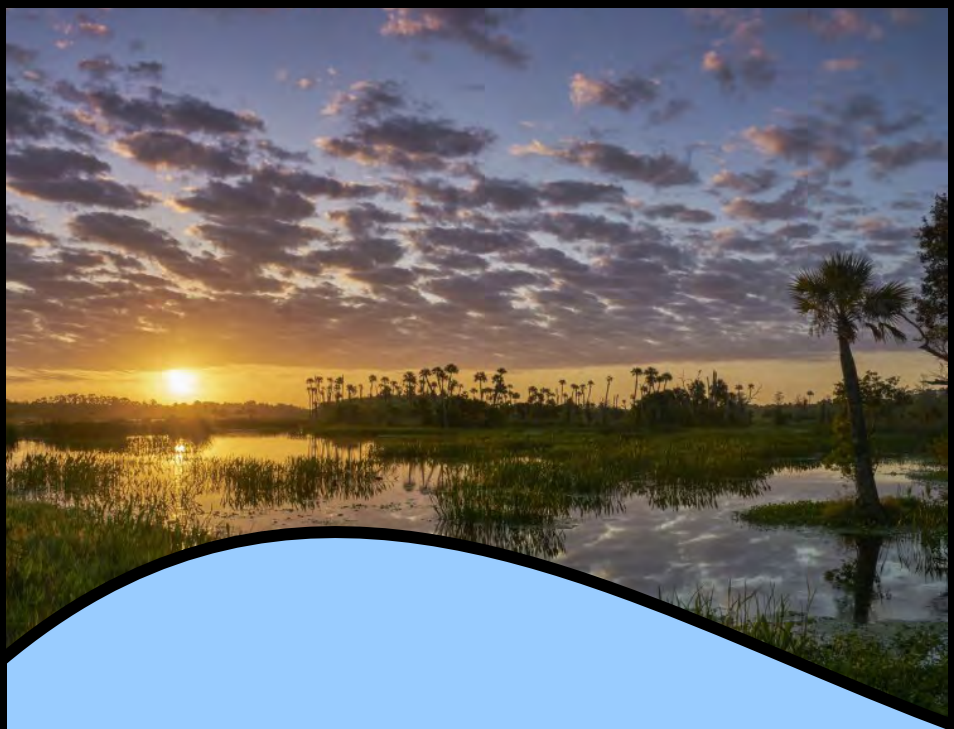

Sim: 025Y072H
Recharge Volume (ac_ft)
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
0.00
50.00
100.00
150.00
200.00
250.00
300.00
350.00
Relative Time (hrs)
025Y072H

EXHIBIT B

OF INTEGRATED GROUNDWATER / SURFACE WATER ANALYSIS

ENHANCED LAKE MANAGEMENT PLAN





Enhanced Lake Management Plan
Daniels Road South
Lee County, Florida

Prepared By:
Progressive Water Resources, a Division of RESPEC, LLC



May 2022

Daniels Road South – Enhanced Lake Management Plan
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APPENDICES

Appendix A	Example of Deep Lake Aeration Device	Attached
Appendix B	Lee County Fertilizer Ordinance No. 08-08	Attached

Introduction

The proposed Daniels Road South residential development encompasses approximately 1,233 acres and offers a unique opportunity to enhance water resource benefits within the highly disturbed project site. Currently, approximately 553 acres (approximately 45 percent) of the property was historically used for farming but is currently characterized as improved pasture and is currently utilized for livestock grazing while the remainder of the property is composed of pine and oak forest, palmetto prairie, hydric pine, wet prairies and cypress heads. Onsite observations indicate many areas are heavily infested with invasive plants, namely Melaleuca and Brazilian Pepper. Of the 1,233-acre property, approximately 1,149 acres (93 percent) is located within Lee County's Density Reduction/Groundwater Resource (DR/GR) area, as shown in **Figure 1**. The remaining 84 acres, outside of the DR/GR and south of State Highway 82, are within the Central Urban Land Use category. The property is also located north and west of Lee County's Wild Turkey Strand Preserve.

The property has a long history of farming and has been used for agricultural purposes since the late 1950s which has resulted in the creation of numerous historic farm roads and agricultural ditches which facilitated drainage of wetlands and other low-lying areas. In addition, the northern section of the site was part of a large World War II military training facility (Buckingham Army Air Field) that constructed multiple triangular-shaped earthen berms located south of Highway 82 that were part of facility's aerial gunnery ranges. One of the earthen WWII features occurs on the northern section of property and, along with alterations associated with historic farming operations, contributes to the highly-disturbed nature of the site.

As part of the historic farming operations, a prominent northeast-southwest trending elevated dirt road was constructed that resulted in bifurcating the property's drainage, with the western side of the site draining towards the Six Mile Cypress watershed and the eastern side draining towards the Estero River watershed. Onsite observations indicate that the area west of the divide, constituting approximately 415 acres, or 34 percent, remains hydrologically separated from lands to the east and can conceivably be considered as "orphaned" from the balance of the DR/GR. Natural surface water flows originating from the western section of the property also appear constrained by Daniels Parkway. Given the totality of hydrologic alterations that have occurred onsite, the proposed Daniels Road South development offers a unique opportunity to re-establish hydrologic connections that will facilitate hydrologic communication between the orphaned western section of the property with the balance of DR/GR to the east.

Consistent with the proposed hydrologic restoration of the site, the development's proposed irrigation system will seasonally offset proposed groundwater use with surface water stored in dedicated stormwater-wet detention lakes. Irrigation quantities are proposed to be regulated by a centrally-controlled irrigation system whereby individual homeowners are prevented from altering the initiation and duration of irrigation events. The conjunctive use of both ground and surface water supplies significantly reduces groundwater demands when adequate surface water supplies are available (i.e., post-rainy season). Achieving the hydrologic restoration of the property, while conserving water resources, is consistent with Lee Plan policies and goals, and when coupled with the management practices proposed herein, provides a framework of protection measures that enhance and safeguard the water resources of the DR/GR.

In accordance with Lee County's Comprehensive Plan (The Lee Plan), proposed developments within the DR/GR must demonstrate the protection, preservation and enhancement of groundwater resources and environmental (wetland) systems. As demonstrated herein, the Daniels Road South project offers several important water resource protection measures that will result in the following Water Resource Benefits to the DR/GR:

Water Resource Benefits

- The total proposed lawn and landscape area within the Daniels Road South development is approximately 95 acres and represents a decrease of approximately 458 acres (approximately 79 percent reduction) as compared to existing livestock areas.

- The Daniels Road South development will utilize both groundwater and captured stormwater for irrigation, whereby groundwater quantities from the Sandstone Aquifer are used to supplement surface water irrigation supplies within the project's stormwater management system lakes. Irrigation quantities will then be withdrawn from the lakes to irrigate lawn and landscaped areas. The proposed conjunctive use of both ground and surface water is anticipated to conserve groundwater supplies that would otherwise have to be withdrawn from the Sandstone Aquifer. When adequate surface water supplies are available, groundwater usage will be reduced, or possibly eliminated, thereby furthering the project's resource benefits within the DR/GR.

- The project includes a master-controlled irrigation system that will regulate the initiation and overall duration of irrigation events in order to increase irrigation water use efficiency and enhance water conservation (i.e., no individual homeowner will have access to irrigation timers). Evapotranspiration sensors are also proposed for each irrigation pump station and future plans may include an integrated communication system between the controller clocks and the irrigation pump station(s).

- Currently there is little, if any, stormwater attenuation or treatment onsite. Improved surface water quality is anticipated through the creation of numerous interconnected stormwater management system lakes.

- Integrated surface and groundwater modeling indicates that the proposed stormwater management system enhances recharge to the underlying aquifers thereby improving hydrologic conditions within the DR/GR.

- Only professional landscape businesses registered with Lee County will be allowed to perform their services at the Daniels Road South development. Proof of completion of a Lee County-approved Best Management Practices (BMP) training program will be required.

- To further protect the water resources, the Daniels Road South project includes surface water quality monitoring of the proposed internal stormwater lakes to document that no adverse surface water quality conditions will occur as a result of the proposed change in land use.

Collectively, these Water Resource Benefits represent a high level of water resource and environmental protection and, in many cases, exceeds the future land use requirements contemplated by Lee County's Comprehensive Plan. For ease of use and understanding, the contents of the Daniels Road South ELMP contain Sections that address key water resource protection elements, with each of the main ELMP Sections in turn having Subsections that provide specificity regarding the management actions necessary to safeguard the water resources. Where applicable, BMPs are provided to highlight specific water resource protection measures.

Section 1. Historic Surface Water Hydrology

To better understand the proposed water resource management actions contained within this ELMP, it is important to provide a basic context of the historic, pre-development surface water flows on the property. The project site generally exhibits a relatively flat topographic relief, with the highest naturally-occurring land surface elevation of approximately 27 feet NAVD88 located on the northeastern portion of the property, immediately south of Highway 82. The lowest land surface elevations are located to the south and southeast at approximately 21 feet NAVD88.

Prior to agricultural development, the subject property was predominantly characterized as open rangeland and pine flatwoods, interspersed with shallow freshwater forested/shrub and emergent wetlands. Prior to any anthropogenic disturbances, 1944 historic aerials indicate the presence of semi-connected wetland features as shown in **Figure 2**. Development of agricultural operations at the project site began in the early 1950s and farming activities necessitated the construction of a grid pattern of drainage ditches that eliminated the naturally occurring surface water flow paths as shown in **Figure 3**. In addition, a well-defined access road was constructed to provide year-round access to the farm fields and was significant enough to be identified by the South Florida Water Management District (SFWMD) as a surface water basin divide.

In addition, several historical connecting ditches are evident in and around onsite wetlands and were presumably used to shorten hydroperiods and further facilitate drainage. The existing onsite drainage ditches were used to reduce water table elevations and subsequently lower recharge potential. Depending on the ditch characteristics, such features can negatively impact nearby environmental features (wetlands) and consequently the water resources within the DR/GR. Hydrologic alterations can also favor the growth of exotic and nuisance plant species.

Please note that the Daniels Road South property occurs within a single Water Body Identification (WBID) No. 3258D_3 (Estero River), which is not impaired as reported by the Florida Department of Environmental Protection (FDEP). It is important to note that the FDEP places the entire property within the Estero River WBID and does not differentiate the site into eastern and western sections.

Given the totality of hydrologic alterations that have occurred onsite, the proposed Daniels Road South development offers a unique opportunity to re-establish hydrologic connections that will facilitate hydrologic communication of the orphaned western section of the property with the balance of DR/GR. The proposed flow-pathway will preferentially allow movement of seasonally high surface waters to be conveyed towards the southeast corner of the property as occurred historically. In addition, the Daniels Road South project aims to eliminate wetland rim-ditching to help restore the wetland systems' hydroperiods.

Section 2. Proposed Water Resources Best Management Practices

As the Daniels Road South project evolves from predominately a "construction phase" to "partial construction" and ultimately to a "post-construction" residential phase, the BMPs must also evolve to maintain water resource protection. Construction completion of the proposed development may take between 5 and 10 years, depending on market conditions. However, the initiation of construction is anticipated to commence prior to the end of 2023. At the onset of development construction, all cattle are proposed to be removed from the site.

A. Construction Phase BMPs

During construction of the proposed development, the greatest potential for impacts is associated with increased turbidity and/or potential spills of fuels/oils (hydrocarbons), otherwise known as Volatile Organic Compounds (VOCs) used to power earthmoving equipment, etc. Specific BMPs associated with the construction phase are provided below. The Developer will be responsible for maintaining compliance with all ELMP BMP requirements until such time that control of the development is transitioned to the Homeowner's Association (HOA) and/or Community Development District (CDD).

1. The site's general contractor shall be responsible for assuring that each contractor or subcontractor evaluates the work area before construction is initiated to determine if site conditions may pose particular problems for the safe and secure handling of any regulated substances.

2. If any regulated substances are stored on the construction site during the construction process, they shall be stored in a location and manner which will minimize any possible risk of release to the environment. There will be no intention to use, handle, produce or store regulated substances in violation of the Lee County Land Development Code Section 14-477, Stormwater Pollution Prevention Plan (SWP3) criteria.

3. Each contractor/subcontractor shall familiarize themselves with the manufacturer's safety data sheet supplied with each material containing a regulated substance and shall be familiar with procedures required to contain and clean up any releases of a regulated substance. Any tools or equipment necessary to accomplish the same shall be available in case of an accidental release.

4. In the event of a spill of a regulated substance, the contractor/subcontractor will immediately notify the Developer, who will in turn notify the Lee County Division of Natural Resources Director at (239) 533-8109 and the Florida Department of Environmental Protection (FDEP) South District Office at (239) 344-5600. Additional measures, such as those described in this ELMP's Section 4 (Part A), may also apply.

5. Upon completion of construction, all unused quantities of regulated substances and their containment systems shall be completely removed from the construction site.

6. Proper turbidity abatement measures, as required by the SFWMD, the Florida Stormwater Sedimentation Control Inspector's Manual standards, and the FDEP National Pollutant Discharge Elimination System (NPDES) permit criteria, will be maintained while construction is ongoing or

until adequate vegetation or other stabilization measures have been established.

B. Post-Construction Phase BMPs

After the Lee County Certificate of Compliance or the SFWMD stormwater management system certification is completed for a particular phase of the development, the primary focus of the ELMP will be maintaining the stormwater management system lakes since all internal runoff will be routed to these features for treatment. It is also anticipated that the Developer will establish and create an HOA and/or a CDD that will be responsible for the operation and maintenance of all aspects of the stormwater management system including the lakes, associated stormwater conveyance and control components, and the flow-path connection in perpetuity. At a minimum, the operation and maintenance of the stormwater management and flow-path system will require compliance with the terms and conditions contained within this ELMP. Additional details on BMPs, including monitoring of surface water, is provided in **Section 3** below.

Section 3. Lake Maintenance

A. General Provisions

Proper lake maintenance is an integral aspect of this ELMP since internal stormwater runoff is directed to these features for treatment and attenuation. As an added protection to underlying groundwater resources, the excavation of the lakes will not penetrate any continuous impervious layer of clay or rock. In addition, the groundwater withdrawn from the proposed (new) onsite Sandstone Aquifer wells will be used to replenish a subset of stormwater lakes as needed for use in the master irrigation system.

As shown in the conceptual layout provided as **Figure 4**, surface water irrigation pumps will "repump" groundwater supplies and retained stormwater (surface water) for the irrigation of the residential development. The recycling of surface water quantities is expected to further improve water quality on the property and maintain high water quality in the lakes. The stormwater lakes must be maintained in perpetuity and the following management actions are proposed. Specific post-construction BMPs are also provided.

B. Deep Lake Management

If any of the Daniels Road South stormwater management lakes are proposed to be constructed deeper than 12 feet in depth. In accordance with Lee County Land Development Code Section 10-329(d) (3), these lakes are designated as "deep lakes" and are subject to specific criteria. Based on Lee County Code, the proposed deep lakes will satisfy the following criteria:

1. The stormwater management deep lakes will not exceed a maximum water depth of 20 feet and will not penetrate any continuous impervious layer of clay or rock.
2. A destratification (i.e., aeration) system will be installed in any lake that exceeds a 12-foot water depth. Documentation that the proposed destratification system is adequately sized and designed for each lake deeper than 12 feet will be submitted to Lee County for approval. An example of a deep lake aeration device is provided as **Appendix A**.
3. Native shade trees meeting the specifications of Lee County Land Development Code Section 10-420 will be planted around each deep lake perimeter at approximately one tree per 100 feet of lake shoreline measured at the detention lake's water level control elevation. Trees and other plants may be grouped or clustered together around the lake perimeter.
4. The deep lake management techniques, including operation of the destratification system, will be maintained for the life of the stormwater management system and will be recorded in the development's covenants, in accordance with the County Attorney's Office.
5. A post-construction bathymetric survey verifying each deep lake's finished water depth, sealed by a professional surveyor and mapper, will be submitted to Lee County for approval.

C. Nuisance and Exotic Vegetation Control

The HOA and/or CDD will be responsible for the removal (in perpetuity) of all nuisance and exotic vegetation from the stormwater management system as defined by the Lee County Land Development Code.

1. Lakes must be inspected annually and any prohibited vegetation must be removed by the use of hand-clearing or appropriate chemical treatment. Only aquatic- approved compounds may be utilized in the stormwater management system lakes.

2. Herbicides and/or algaecides may only be applied by a licensed professional applicator who meets the requirements of Lee County, and in accordance with manufacturer specifications. All applicable local, state and/or federal guidelines and requirements will also be followed.

D. Littoral Vegetation Preservation

Littoral zone vegetation is required to be installed by the Developer and maintained by the HOA and/or CDD (in perpetuity). Littoral zones provide habitats for wading birds, fish and aquatic invertebrates and also help to stabilize shorelines and reduce lake bank erosion.

1. Littoral plants that die will be replaced in accordance with Lee County Land Development Code requirements. The presence of littoral plants throughout the lakes is desirable and may also help to improve the water quality within the lakes.

2. The spread of littoral plants will be encouraged throughout the designated littoral areas.

3. Mechanical trimming or the use of land-based herbicides on desirable littoral plants is prohibited. Any trimming or removal of vegetation required to promote the survival and viability of littoral vegetation will be performed by hand or by approved aquatic herbicides and methods.

E. Fertilizer Application

Strict adherence will be maintained with Lee County's Fertilizer Ordinance. Individual lot owners are prohibited from applying fertilizer to their lots. Any person(s) applying fertilizers must have received a limited certification in compliance with Florida Statute 482.1562 prior to application of any and all fertilizers. Additionally, fertilizer content and application rate must be in compliance with Lee County's Fertilizer Ordinance. The Lee County Fertilizer Ordinance No. 08-08 is provided as **Appendix B**.

1. All professional landscape businesses must register with Lee County prior to performing landscape fertilization services within unincorporated Lee County.

2. At least one (1) employee of a firm employed to perform landscape fertilization services must be a Certified Professional Landscaper.

3. Proof of completion of a Lee County-approved BMP training program must be provided to the Division of Lee County Natural Resources.

4. At least one (1) BMP-trained employee must be onsite while fertilizers are applied. A registration decal provided by the division must be displayed on all company vehicles.

F. Erosion Protection and Lake Bank Maintenance

Lake banks are susceptible to erosion due to overland flow of stormwater runoff, wave action, and the natural seasonal fluctuation of water levels. Accordingly, lake banks within the project are designed to minimize this potential for erosion.

1. Lake banks will be inspected annually to identify areas of erosion. Once identified, the erosion will be repaired and the source of erosion shall be eliminated, if possible.

2. Where excessive erosion occurs, repair of the lake banks and/or enhancement of stabilization measures may be necessary.

3. No motorized boats will be allowed within any of the onsite stormwater management lakes.

G. Lake Education Program

A narrative explaining the benefits of littoral vegetation, lake maintenance and surface and groundwater quality will be made available to residents.

1. Lake experts will be encouraged to attend the HOA and/or CDD meetings annually to discuss the lake system operation and maintenance requirements.

2. Homeowners will be informed that they are prohibited from removing or trimming littoral vegetation.

3. Additionally, the homeowners will be made aware of the extreme importance regarding any introduction of hazardous materials or substances into the lakes.

H. Pesticide, Herbicide or Fungicide Applications

All applications of pesticides, herbicides, algaecides and/or fungicides shall be applied by a licensed professional applicator, meet the requirements of Lee County, be applied in accordance with the manufacturer's specifications, and shall meet all applicable local, state and/or federal guidelines and requirements. Only approved aquatic herbicides may be used to treat the stormwater management system.

1. Homeowners shall be prohibited from applying pesticides, herbicides and/or fungicides to their lots. These activities will only be performed by certified contractors approved by the HOA and/or CDD.

2. The use of any chemical product in a manner that will allow airborne or waterborne entry of such products into the stormwater management system is prohibited. This requirement shall not apply to the use of chemical agents by certified lake management specialists for the control of algae and nuisance vegetation within the stormwater management system lakes. However, application of such agents shall be in compliance with the requirements of Lee County, applied in accordance with the manufacturer's specifications, and meet all applicable local, state and/or federal guidelines and requirements.

3. Pesticides, fungicides and herbicides will be used only in response to a specific problem and in the manner and amount recommended by the manufacturer. Broad application of pesticides, fungicides and herbicides as a preventative measure is prohibited.

I. Southwest Florida International Airport Land Use Restrictions

As mandated by Lee County Land Development Code, no proposed land use changes can interfere with the safe operation of aircraft originating from, or flying into, the Southwest Florida International Airport, located to the southwest of the subject property.

1. No land use alterations are allowed within the designated airport exclusion zone that will produce a wildlife attractant hazard that is considered greater than the existing, historic conditions. If such an attractant is identified by the Lee County Port Authority, the land owner will have the full and sole responsibility of eliminating the hazardous situation at their expense.

2. All stormwater management ponds, lakes, canals, conveyances, and other features are to be designed and constructed in accordance with Federal Aviation Administration (FAA) recommendations that discourages wildlife.

3. The use of rock-lined, steep-sided stormwater basins is required within the airport exclusion zone to facilitate the control of potentially hazardous wildlife. The rocks help to hide the water during periods of low inundation and help discourage shoreline vegetation and wildlife foraging along shorelines.

Section 4. Wellfield Protection

A. Green Meadows Wellfield Protection

The Daniels Road South development is located approximately 0.1 miles north of the nearest Lee County Wellfield Protection Zone associated with the Green Meadows Wellfield, located adjacent to the Florida Rock Properties, Inc.'s mining operation, as shown in **Figure 5**. Therefore, additional measures regarding Wellfield Protection are not applicable to this ELMP. The level of water quality assurance offered by this ELMP offers abundant assurance that, in the unlikely event that degradation of water quality or contamination occurs, ample time exists to initiate remedial measures and safeguard Lee County's nearest wellfield. In addition, surface water quality monitoring is also proposed for the Daniels Road South project, as shown in **Figure 6**.

Section 5. Surface Water Quality Monitoring Program

A. General Data Quality Objectives

All surface water quality samples will be collected in accordance with Chapter 62-160, Florida Administrative Code (F.A.C.), and the FDEP's Standard Operating Procedures (SOPs) DEP-SOP-001/01 FQ 1000 Field Quality Control Requirements and FDEP-SOP-001/01 FS 2100 Surface Water Sampling. A summary of the proposed surface water sampling schedule is provided in the attached **Table 1**.

B. Surface Water Monitoring Goals

The purpose of the surface water monitoring program is to assure that surface water coming onto, originating within, and leaving the project meet all applicable requirements of the SFWMD Environmental Resource Permit (ERP) program authorized pursuant to Part IV of Chapter 373, F.S. and all applicable requirements of Chapter 62-302, F.A.C., Surface Water Quality Standards. Additionally, water quality monitoring of the designated stormwater management lakes will verify the efficiency of the ELMP management actions and assure the lakes' health for the residents' enjoyment. Additional surface water quality parameters may be required if the FDEP determines that the sub- watershed or FDEP WBID No. $3258D_3$ becomes impaired. Please note that a single set of project background samples are proposed once the stormwater lakes are constructed and rehydrated. Future monitoring of the proposed stormwater lakes will be compared to and contrasted with the initial background testing results.

C. Surface Water Quality Monitoring

Surface water quality grab samples will be collected per FDEP protocol and analyzed by a NELAC/TNI-certified laboratory. The surface water quality parameters to be tested are listed below and summarized in the attached **Table 2.** In addition, the attached **Table 2** also includes the laboratory's Accuracy, Precision and minimum Method Detection Limit (MDL). Please note that the Practical Quantitation Limit (PQL) for each parameter varies between laboratories, however the PQL typically equates to four times the MDL.

- **Field Parameters – Depth of Water, Dissolved Oxygen, pH, Temperature, Total Dissolved Solids, and Specific Conductivity**
- **Lab Parameters – Total Nitrogen, Nitrate and Nitrite, Ammonium, Ammonia, Total Kjeldahl Nitrogen, Total Phosphorus, Chlorophyll-a, and Ortho-phosphate.**

Surface water quality monitoring shall be continued for a minimum of five (5) years after operational completion of the stormwater management system. After five (5) consecutive years of testing, a request for discontinuation or reduction in the monitoring requirements will be proposed to the Lee County Natural Resources Department if it can be demonstrated that the surface water quality is being maintained within applicable State standards.

Section 6. Water Quality Data Reporting and Analysis

Surface water quality data will be submitted to the Lee County Natural Resources Department staff in an approved electronic format within 30 days of receiving results from the contract laboratory if an issue has been detected. Otherwise, data will be submitted annually. The submittal will include all field notes, field and laboratory water quality data results and all previously collected (i.e., period of record) water quality data. The submittals will also include a brief narrative on the most recent sample collection, sample chain of custody, descriptions of any re-testing of erroneous values, and any water quality exceedances.

By **March 1 of each year**, a Water Quality Summary Report for the preceding calendar year shall be supplied to Lee County Natural Resources staff which summarizes the surface water testing results for the development. The results will include a summary table that lists all the field and laboratory parameters for the monitoring locations. Laboratory parameter concentrations that fall below the PQL for that parameter will be reported with no value; however, a value qualifier of "I" (i.e., between the MDL and PQL) or "U" (below the MDL) will be included in the summary table.

All water quality data for the analytes listed in the attached **Table 2** that are detected in concentrations above the laboratory PQL will be reviewed, graphed and statistically analyzed for trends and exceedances above two (2) standard deviations of the mean of all values. Any reported concentrations above the MCL will be clearly identified, as well as remedial actions which were used to timely reduce that particular analyte's concentration.

Section 7. Remedial Actions

In the unforeseen event that any significant surface and/or groundwater impacts are identified as a result of a hydrocarbon spill or pesticide/herbicide application at the subject property, the Developer or designee of the HOA and/or CDD will notify the Director of the Lee County Natural Resources Division within no more than 12 hours (or next business day). If a spill or release "presents an immediate threat to human health and/or the environment" then the FDEP Office of Emergency Response (OER) will be contacted within 24 hours. Guidance outlining the definition of a release as well as reporting procedures is presented in the OER webpage located at:

http://www.dep.state.fl.us/per/reportable incident.htm.

The Developer or their successor(s) will coordinate contamination assessment and remediation efforts with Lee County and will comply with applicable local, state and federal permitting requirements. The initial phase of the remediation plan will consider the actions outlined in Section 4 and may consist of additional temporary monitoring wells installed for the short-term temporal monitoring of potential subsurface impacts and to evaluate the horizontal and the vertical distribution of the impacted area. Based on the findings of the initial phase, if necessary, a more comprehensive assessment may be required.

Section 8. In Conclusion

The information and technical requirements in this ELMP are provided to the Developer or designee of the HOA and/or CDD to assist with understanding the importance of a well-maintained and fully-functioning stormwater management system. The stormwater management system lakes within the development are not only required by state law but can also be a source of beauty and enjoyment for the residents while maintaining the value and integrity of the water resources. The Daniels Road South recreated flow-path will enhance and promote increased recharge to the shallow Water Table Aquifer. Therefore, the groundwater resource benefits and the management actions required herein demonstrate an exceptional level of protection, preservation and enhancement of groundwater and surface water resources within the DR/GR.

Table 1

Water Quality Sampling Schedule

Date	Sample Type	Sample Location
January-31	N/A	N/A
February-28	N/A	N/A
March-31	N/A	N/A
April-30	N/A	N/A
May-31	Surface Water	4 Locations
June-30	N/A	N/A
July-31	Surface Water	4 locations
August-31	N/A	N/A
September-30	Surface Water	4 locations
October-31	N/A	N/A
November-30	N/A	N/A
December-31	N/A	N/A

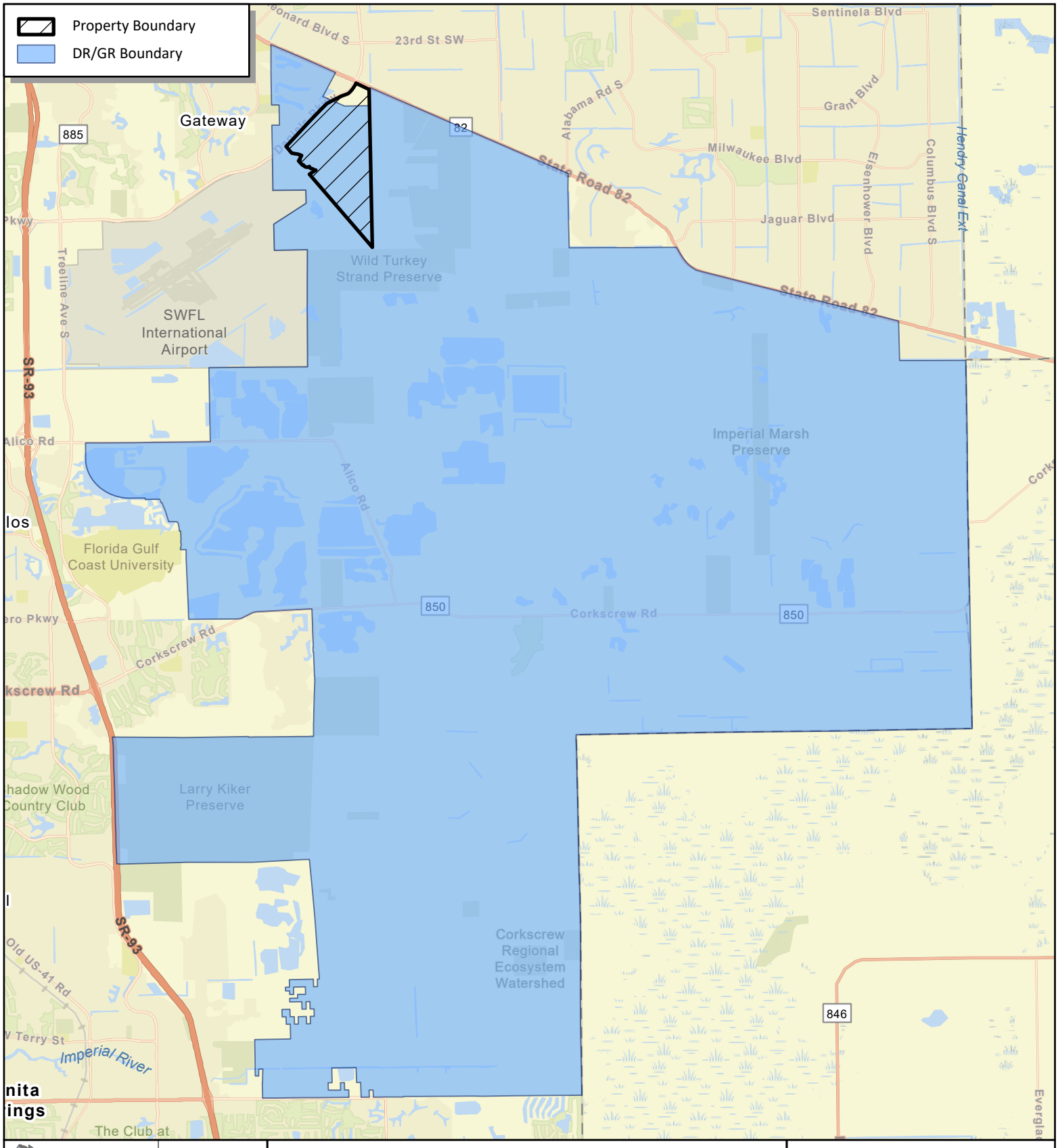
*See Figure 6 for surface water quality sampling locations

Table 2

Surface Water Quality Analytes

Field Parameters					
Parameter	**Units**	**Precision (%RPD)**	**Accuracy (%Recovery)**	**MDL**	**Sampling Frequency**
Depth of Water	Feet	0.01	NA	NA	3 times per year
Dissolved Oxygen	mg/L	FT 1000-1	FT 1000-1	NA	3 times per year
pH	SU	FT 1000-1	FT 1000-1	NA	3 times per year
Temperature	Deg C	FT 1000-1	FT 1000-1	NA	3 times per year
Total Dissolved Solids	mg/L	FT 1000-1	FT 1000-1	NA	3 times per year
Specific Conductivity	µS/cm	FT 1000-1	FT 1000-1	NA	3 times per year
Laboratory Parameters (Nutrients)					
Total Nitrogen	mg/L	CALC	CALC	CALC	3 times per year
Nitrite + Nitrate	mg/L	5	90-110	0.004	3 times per year
Ammonium	mg/L	CALC	CALC	CALC	3 times per year
Ammonia	mg/L	17	90-110	0.008	3 times per year
Total Kjeldahl Nitrogen	mg/L	11	90-110	0.05	3 times per year
Total Phosphorus	mg/L	10	90-110	0.008	3 times per year
Chlorophyll-a	mg/L	20	93-108	0.25	3 times per year
Ortho-phosphate	mg/L	10	88-118	0.002	3 times per year

Notes:



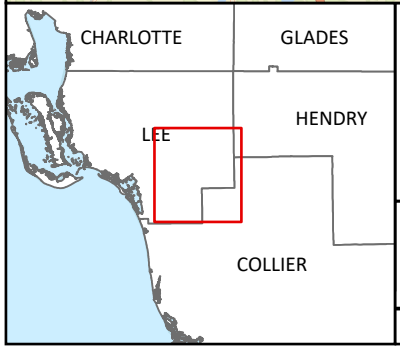


Figure 1
Daniels Road South and the DR/GR
Lee County, Florida

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4/15/2022

Image: ESRI World Street Map

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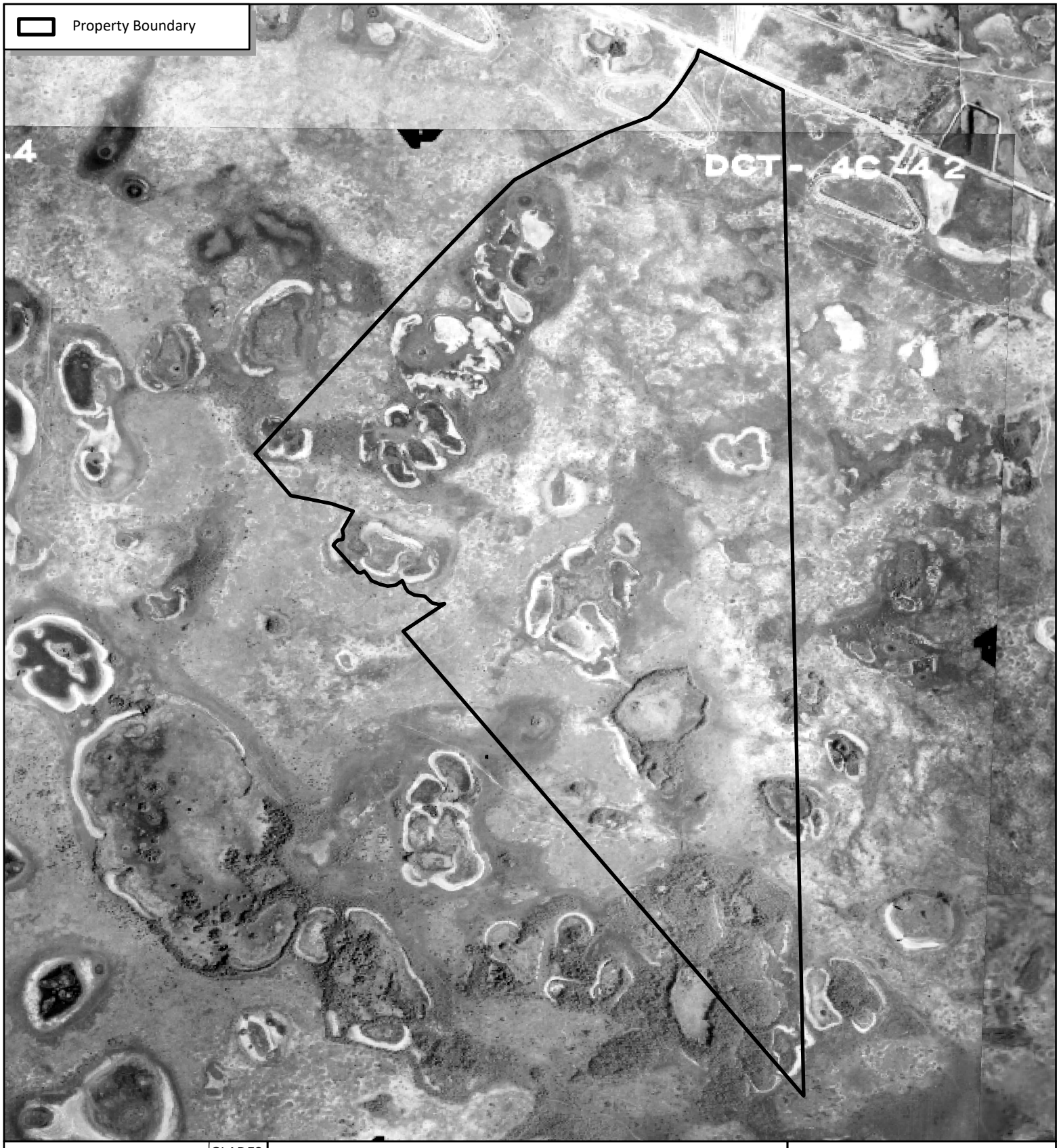

CHARLOTTE | GLADES | HENDRY | LEE | COLLIER

Figure 2
Daniels Road South
1944 Historic Aerial Imagery
Lee County, Florida

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Scale: 1:22,000

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ge: UFDC 1944 Historic Aerial Imagery



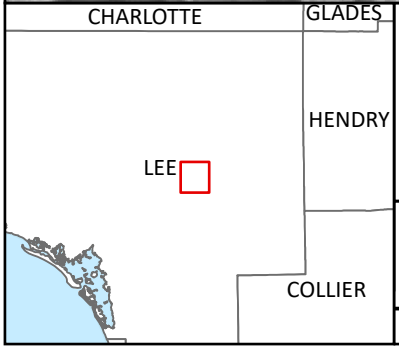

Figure 3
Daniels Road South
1958 Historic Aerial Imagery
Lee County, Florida

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Image: UFDC 1958 Historic Aerial Imagery

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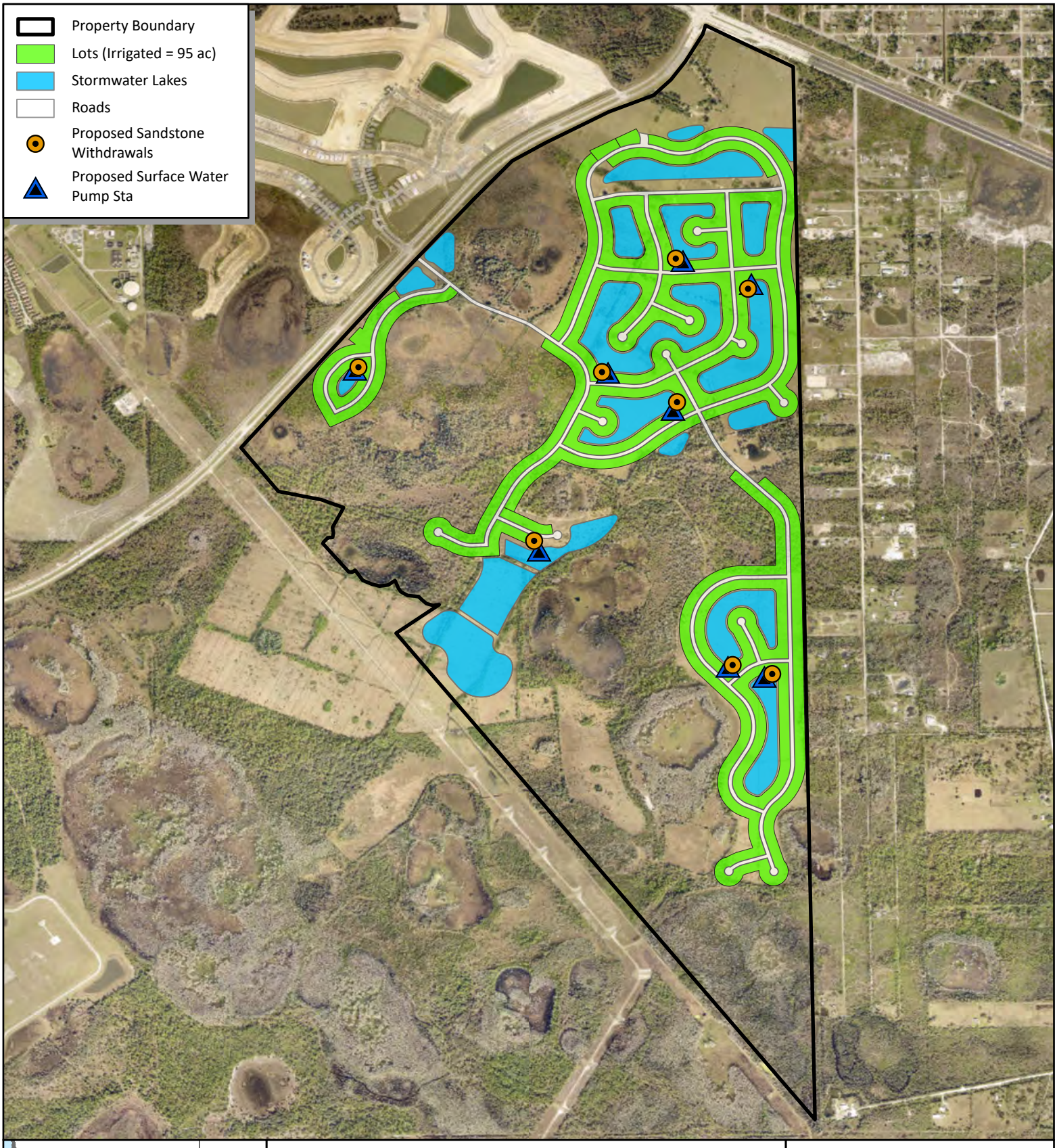

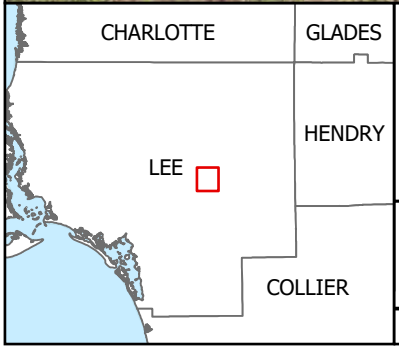

Figure 4
Daniels Road South
Conceptual Layout and
Proposed Withdrawals
Lee County, Florida

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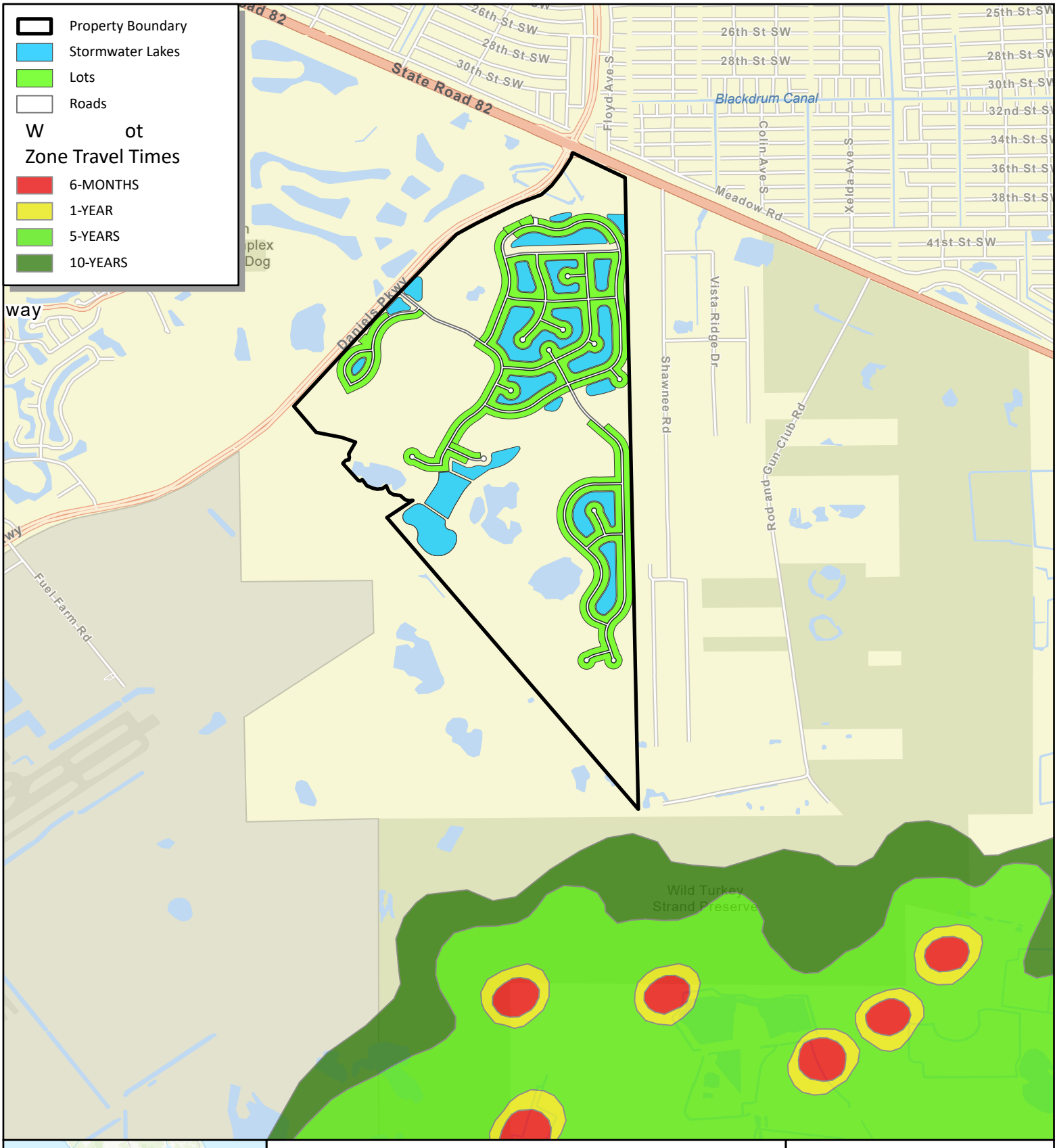



Figure 5
Daniels Road South
Proximity to Lee County
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Lee County, Florida

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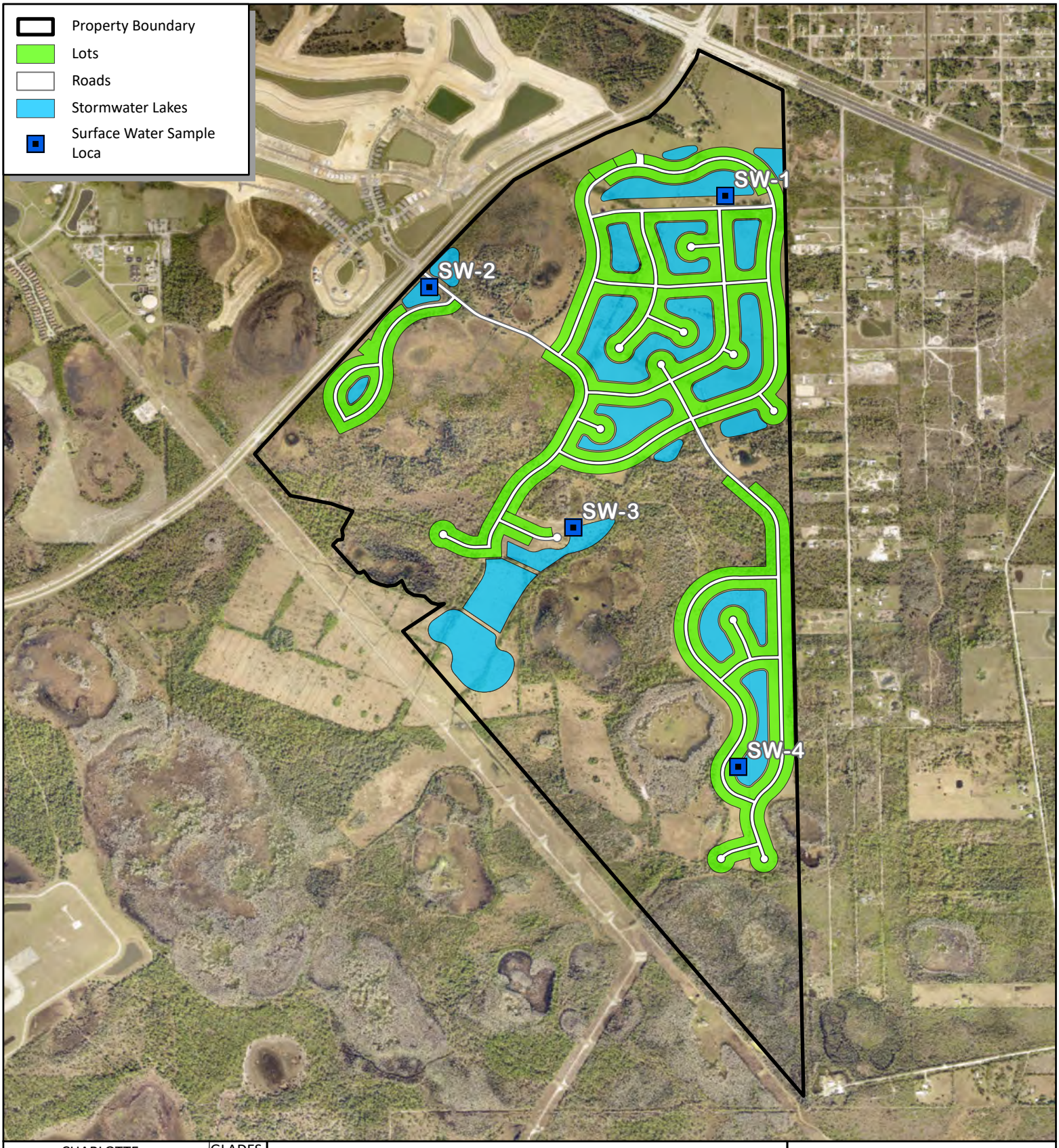

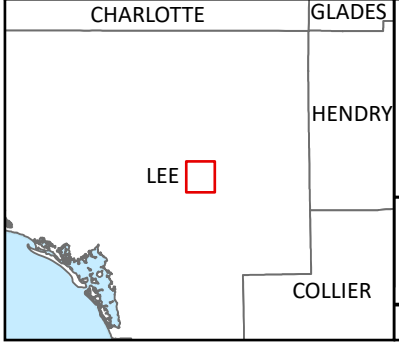

Figure 6
Daniels Road South
Proposed Surface Water Sampling Loca
Lee County, Florida

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Image: ESRI World Imagery

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APPENDIX A

Example of Deep Lake Aeration Device

Vertex Water Features
Pond and Lake Aeration
BOTTOM AERATION

With Vertex MicronBubble™ Technology



AIR3 XL2™

The Vertex Air3 XL2™ pond aerator is a super-efficient, affordable and safe system. In a typical pond, an Air3 XL2™ can aerate approximately 3-4 acres depending on shape, slope, oxygen demand and other factors. A 1/2hp (0.37kW) Brookwood™ SafeStart™ compressor, housed in our rustproof aluminum outdoor cabinet, feeds three bottom mounted CoActive AirStations™ utilizing Vertex's MicronBubble™ technology. The rising force of millions of bubbles circulates the entire water column, entraining bottom water up to the surface allowing vital oxygen to be absorbed and poisonous gasses expelled. With no electricity in the water, Vertex's aeration systems are safe for any type of water recreation.

Our systems have a full 3-year Vertex warranty, excluding wearable parts (air filters and compressor maintenance kits) plus a Limited Lifetime warranty against rust and corrosion on the cabinet, 5-year warranty on the AirStations™ and a 15-year warranty on BottomLine™ supply tubing.

FEATURES

AIRSTATIONXL2™

- Total pumping capacity of up to 11,400 GPM
- Six 9" flexible membrane discs with MicronBubble™ technology
- Shallow water Airstation optional for depths lower than 8'
- Self-cleaning, low maintenance
- Powder-coated stainless steel self-sinking base unit designed to prevent sinking into soft bottom sediments
- 5-year "No Questions" warranty

BROOKWOOD™ COMPRESSOR

- 3-year Vertex warranty, excluding wearable parts (air filters and compressor maintenance kits)
- Vertex SafeStart™ Technology
- UL, 115v or 230v, 35 Max PSI
- Thermal overload protection
- 1/2hp (0.37kW): low electrical costs
- 2-3 year extended duty cycle between scheduled maintenance

QUIETAIR™ CABINET

- Class "A" GFCI protection on all 115v circuits
- Powder coated aluminum for a durable attractive finish
- High capacity 290 CFM fan
- Easy access design with cam lock
- Easy plug-in connection to waterside electrical service
- Disconnect switch
- Heavy duty, light weight mounting pad included
- Sound dampening kit optional
- Limited lifetime warranty against rust

BOTTOMLINE™ TUBING

- Over-sized I.D. for high flow
- Self-weighted for easy installation
- Available in 100' and 500' increments
- 15-year Vertex warranty

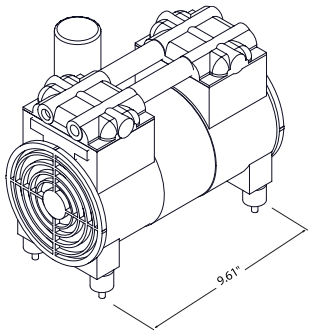
BENEFITS TO THE LAKE

- High pumping rate easily penetrates stratification layers
- Circulates entire water column
- Increases oxygen levels throughout water column
- Promotes beneficial bacteria growth
- Prevents low oxygen fish kills
- Reduces nutrient levels and associated algae growth
- Oxidizes/reduces bottom muck
- Expands oxygenated habitat for improved fisheries
- Reduces aquatic midge and mosquito insect hatches
- Eliminates foul odors from undesirable dissolved gases
- Safe entry – no electricity in the water
- Extremely energy efficient

SPECIFICATIONS: AIR3 XL2™ LAKE AERATION SYSTEM

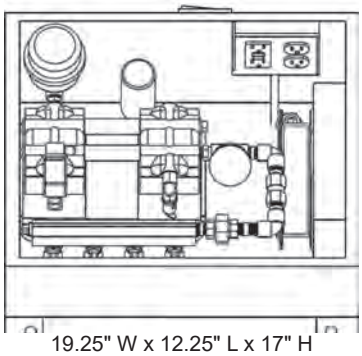
BROOKWOOD™ COMPRESSOR

1/2hp (0.37kW), 115v or 230v, Single Phase piston type compressor. Built for continuous 24/7 operation and equipped with Vertex SafeStart™ technology allowing auto restart under maximum rated pressure without motor damage. Super-duty Brookwood™ compressors incorporate upgraded rotors, stators, valve plates, bearings and capacitors and are thermally protected, oil-free, and require no lubrication; just periodic cleaning of included washable air filter. Extended duty cycle is approximately 2 to 3 years for compressor maintenance, about 2 to 3 times the duty cycle of ordinary piston and rotary vane compressors. All Brookwood™ SafeStart™ compressors carry a 3-year Vertex warranty, excluding wearable parts (air filters and compressor maintenance kits).



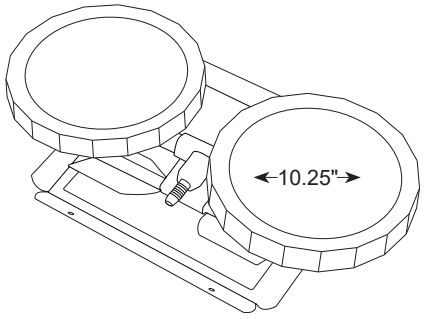
QUIETAIR™ CABINET

Enclosure comes equipped with cam lock for security, fully gasketed and constructed of aluminum with gray electrostatically-bonded powder coating to provide Limited Lifetime warranty against cabinet rust and corrosion. Enclosure furnished with stamped ventilation grills to insure forced air circulation and an integral cooling fan with thermal protection, producing 290 CFM to guard against excessive compressor operating temperatures. Cabinet provided with HDPE mounting pad. Enclosure comes with class a GFCI protection on both the compressor and fan circuits. Quick disconnect switch included. Side mounted muffler box and additional insulation optional for quiter operation.



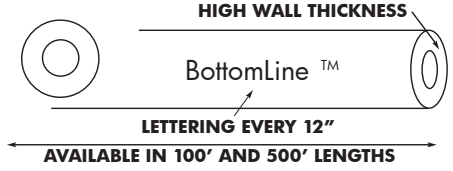
AIRSTATION XL2™ ASSEMBLY

Diffuser station consists of two self-cleaning, 9" diameter, flexible membrane diffusers of EPDM compound with 100% rebound memory, each producing millions of fine 500 to 3000 micron bubbles – the majority 500 to 1000 microns. Each diffuser station base unit is made of powder-coated stainless steel and designed to prevent settling into soft bottom sediments. AIRSTATION™ is designed with adjustable diffuser riser to accommodate any site requirements. AirStations are independently tested and verified to provide stated pumping rates. 5-year warranty.



BOTTOMLINE™ SUPPLY TUBING

Self-weighted, direct burial submersible tubing for connection from compressor to diffuser stations. Tubing is flexible PVC composite construction for use with standard PVC solvent weld cement and insert fittings. Tubing has 0.58" I.D. and high wall thickness for long term durability and protection against punctures. Remains flexible in cold temperatures.



Vertex Water Features
Pond and Lake Aeration
(844) 432-4303 • info@vertexwaterfeatures.com
www.vertexwaterfeatures.com

Install all electrical equipment in accordance with Article 682 of the National Electrical Code and all local codes. Vertex Water Features reserves the right to improve and change our

without notice or obligation.
©Vertex Water Features rev.051116

APPENDIX B

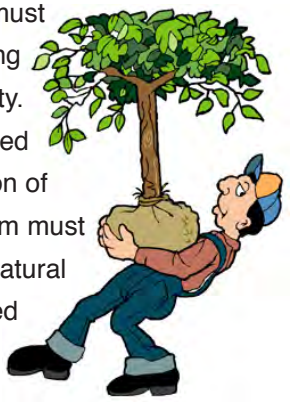
Lee County Fertilizer Ordinance No. 08-08

LEE COUNTY FERTILIZER ORDINANCE (08-08)

APPLICATION: This ordinance applies to anyone performing lawn care and maintenance on turf and/or landscape plants within unincorporated Lee County as a "professional landscape business" or an "institutional landscaper". This ordinance does not apply to individual homeowners who perform their own landscape maintenance.

EFFECTIVE DATE: This ordinance goes in to effect on May 13, 2009.

REGISTRATION:



- All professional landscape businesses must register with Lee County prior to performing landscaping within unincorporated Lee County. At least one (1) employee must be a Certified Professional Landscaper. Proof of completion of a Lee County approved BMP training program must be provided to the Division of Lee County Natural Resources. At least one (1) BMP trained employee must be on site while fertilizers are applied. A registration decal provided by the division must be displayed on all company vehicles. NOTE: An example of a professional landscape business is any company you hire to perform landscaping at your home.
- All institutional landscapers must follow the same registration guidelines as professional landscape businesses with the exception of displaying a registration decal on company vehicles. NOTE: An example of an institutional landscaper is the in-house landscape maintenance staff at Shadow Wood.

TRAINING & CERTIFICATION:

- Florida Green BMP training & certification can be completed through the Lee County Extension Service. This must be done prior to registration.
- Non-professional landscapers are not required to complete the Florida Green BMP training & certification, but are strongly encouraged to participate in the University of Florida IFAS Florida Yards & Neighborhoods Outreach & Public Education Program. This applies to individual owners of single-family residential units who perform lawn care and maintenance on turf and/or landscape plants.

TIMING OF FERTILIZER APPLICATION: Fertilizers containing Nitrogen (N) and/or Phosphorus (P) may not be applied on turf and/or landscape plants from June 1 through September 30.

FERTILIZER CONTENT/APPLICATION RATE:

- Phosphorus (P) in any fertilizer may not exceed a rate of 0.25 lb. per 1,000 sq. ft. per application.
- Phosphorus (P) in any fertilizer may not exceed a rate of 0.50 lbs. per 1,000 sq. ft. per year.
- All fertilizers applied must contain at least 50% slow release nitrogen (N).
- Nitrogen (N) in any fertilizer may not exceed a rate of 4 lbs. per 1,000 sq. ft. per year.

IMPERVIOUS SURFACES: No fertilizers should be deposited, intentionally or accidentally, on an impervious surface such as a driveway, sidewalk or street.

BUFFER ZONES: No fertilizers shall be applied on turf and/or landscape plants within ten (10) feet of a water body, seawall or wetland. (See Florida DEP chapter 62-340)

MODE OF FERTILIZER APPLICATION: When using a rotary spreader, use of a deflector shield is required to deflect fertilizers away from water bodies, seawalls and wetlands.

LOW MAINTENANCE ZONES (NO MOW): A voluntary six (6) foot low maintenance zone is strongly recommended from any water body, seawall or wetland.

GRASS CLIPPINGS/VEGETATIVE MATERIAL: No grass clippings or vegetative materials shall be deposited into storm drains, ditches, water bodies, roadways or other impervious surfaces.

EXEMPTIONS (ordinance does not apply to):

- New landscaping in place for less than sixty (60) days.
- Vegetable gardens as long as they are not within fifteen (15) feet of a water body, seawall or wetland.
- Yard waste, compost or mulches applied to improve the soil.
- Reclaimed water used for irrigation which usually contains high amounts of nitrogen and phosphorus.
- Farm operations.
- Pastures used for grazing livestock.
- Golf courses.
- Specialized turf areas (parks, cemeteries, athletic fields, golf practice areas).

ENFORCEMENT & PENALTIES:

- This ordinance shall be enforced by designated Lee County officials and/or inspectors.
- First violation…$100.00
- Second violation…$250.00
- Third and subsequent violations…$500.00



RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

ATTACHMENT 6

DANIELS PARKWAY SOUTH
COMPREHENSIVE PLAN AMENDMENTS
CPA2021-00017 & CPA2021-00018

LETTER OF AVAILABILITY
EXHIBIT – M20

[June 10, 2022]

EXHIBIT A

OF LETTERS OF AVAILABILITY
EXHIBIT – M20

LEE COUNTY EMERGENCY SERVICES

Lee County
Southwest Florida

Board of County Commissioners

Kevin Ruane
District One

Cecil L Pendergrass
District Two

Ray Sandelli
District Three

Brian Hamman
District Four

Frank Mann
District Five

Roger Desjarlais
County Manager

Richard Wm. Wesch
County Attorney

Donna Marie Collins
County Hearing Examiner

February 6, 2022

Cindy Leal Brizuela
Morris Depew
2914 Cleveland Ave.
Fort Myers, FL 33901

Re: Letter of Service Availability – Daniels Parkway South

Ms. Leal Brizuela,

I am in receipt of your letter requesting a Letter of Service Availability for the Daniels Parkway South development. This property consists of five STRAP numbers located south of Daniels Parkway adjacent to SR 82.

Lee County Emergency Medical Services is the primary EMS transport agency responsible for coverage at parcels on the western edge of the proposed project. These parcels have direct access from Daniels Parkway for multifamily development or are part of a restoration area.

Given the limited impact and the vast majority of the area we cover is planned for preservation, it is our opinion that the service availability for the proposed development of this property is adequate at this time. Should the plans change, especially the density, a new analysis of this impact would be required.

Sincerely,

Benjamin Abes
Director, Public Safety

EXHIBIT B

OF LETTERS OF AVAILABILITY
EXHIBIT – M20

LEHIGH ACRES FIRE DEPARTMENT

Lehigh Acres Fire Control and Rescue District

636 Thomas Sherwin Avenue S. Lehigh Acres, Florida 33974
Phone: 239-303-5300 Fax: 239-369-2436

March 30, 2021

Ms. Cindy Leal Brizuela, Project Planner
Morris-Depew Associates, Inc.
2914 Cleveland Avenue
Fort Myers, FL 33901

RE: Letter of Service Availability

Dear Ms. Brizuela:

Please accept this correspondence as documentation that the Lehigh Acres Fire Control and Rescue District is capable of providing fire protection and EMS transport services to the parcels listed below which falls within the boundaries of our Fire District.

The following parcel (STRAP number) lies within the geographical boundaries of the Lehigh Acres Fire Control and Rescue District:

- 09-45-26-00-00003.0000
- 08-45-26-00-00001.0030
- 17-45-26-00-00001.0010
- 16-45-26-00-00001.0000
- 21-45-26-00-00001.0000

Please feel free to contact me if you have any questions and/or concerns.

Respectfully,

Robert Dilallo
Fire Chief

cc: Ken Bennett, Asst. Chief/Fire Marshal - LAFCRD

EXHIBIT C

OF LETTERS OF AVAILABILITY
EXHIBIT – M20

SOUTH TRAIL FIRE DEPARTMENT

SOUTH TRAIL FIRE PROTECTION & RESCUE SERVICE DISTRICT

Established 1965

"Compassion, Commitment, Courage"

Board of Commissioners

Larry Hirshman
Chairman

Jeff Haugh
Vice Chairman

John F. Anderson II
Secretary-Treasurer

Ron Tarantino
Commissioner

Ken Brown
Commissioner

Administration

Gene Rogers
Fire Chief

Chris Wolfe
Assistant Chief

Dave Bollen
Assistant Chief

March 30, 2021

Morris-Depew Associates, Inc.:

The South Trail Fire & Rescue Service District has received your serviceability/availability request. The following parcels (contained within the request) are located within the South Trail Fire District:

- 08-45-26-00-00001.0030
- 17-45-26-00-00001.0010

The South Trail Fire District is capable of servicing the above parcels utilizing our current service-delivery model, to include fire, life safety (EMS), and existing fire inspection services (based on the most current fee structure); provided that the approved density remains within the confines of the request letter provided which equals 350,000 SF of commercial and 1,600 residential units.

I have enclosed a screen shot of the two parcels as identified by the above strap numbers. I have also indicated the current location of our fire station, located at 12780 Commonwealth Drive, just off of Daniels Pkwy.

Please contact me with any questions, comments, or concerns.

Sincerely,

Gene Rogers
Fire Chief
GRogers@southtrailfire.org
South Trail Fire District
5531 Halifax Avenue
Fort Myers, FL 33912
Tel: (239) 433-0080



	Folio	Owner Name	Site Address	Last Trans. Date	Last Trans. Amt	Just Value	Taxable Value
.0010	10351015	HOLES JARED F TR	DANIELS PKWY, FORT MYERS	5-2013	$ 10	$ 2,384,890	$ 70,175

MORRIS DEPEW
ENGINEERS · PLANNERS · SURVEYORS
LANDSCAPE ARCHITECTS

2914 Cleveland Avenue | Fort Myers, Florida 33901
Phone (239) 337-3993 | Toll Free (866) 337-7341
www.morris-depew.com

March 30, 2021

Gene Rogers
Fire Chief
South Trail Fire Control and Rescue District
5531 Halifax Ave
Fort Myers, FL 33912
grogers@southtrailfire.org

RE: Letter of Availability Request

Chief Rogers,

We are requesting a Letter of Availability for a proposed text amendment which would allow for 350,000 SF of commercial and 1,600 residential units to be located within the following STRAPs;

- 09-45-26-00-00003.0000
- 08-45-26-00-00001.0030
- 17-45-26-00-00001.0010
- 16-45-26-00-00001.0000
- 21-45-26-00-00001.0000

The property is located south of Daniels Parkway and to the southwest of SR 82 and the subject area for future development consists of approximately ±1,233.08 acres. The subject property is zoned AG-2 and is identified as being within the Density Reduction/Groundwater Recharge (DR/GR), Wetlands, and Central Urban future land use designations. A portion of the project is within your service area whereas the remaining parcels are within the boundaries of the Lehigh Acres Fire & Rescue District.

For the purposes of determining availability, please assume all units will be single-family. Should you have any questions regarding this request please do not hesitate to reach out to me.

Thank you,
MORRIS-DEPEW ASSOCIATES, INC

Cindy Leal Brizuela
Project Planner

RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

ATTACHMENT 7

DANIELS PARKWAY SOUTH
COMPREHENSIVE PLAN AMENDMENTS
CPA2021-00017 & CPA2021-00018

TRAFFIC CIRCULATION ANALYSIS
EXHIBIT – M15

[June 10, 2022]

EXHIBIT A

OF TRAFFIC CIRCULATION ANALYSIS
EXHIBIT – M15

TR TRANSPORTATION MEMO

TR TRANSPORTATION CONSULTANTS, INC

2726 OAK RIDGE COURT, SUITE 503
FORT MYERS, FL 33901-9356
OFFICE 239.278.3090
FAX 239.278.1906

TRAFFIC ENGINEERING
TRANSPORTATION PLANNING
SIGNAL SYSTEMS/DESIGN

MEMORANDUM

TO: Mr. Barry Ernst
Lennar Homes

FROM: Yury Bykau, P.E.
Transportation Consultant

DATE: Revised: February 4, 2022

RE: Daniels South
Lee County Comprehensive Plan/Text Amendment
Lee County, Florida

TR Transportation Consultants, Inc. has completed a traffic circulation analysis for the proposed Comprehensive Plan/Text Amendment for approximately 1,233 acres of property located at the southeast corner of Daniels Parkway and SR 82 in Lee County, Florida. Based on the discussion with Morris-Depew Associates, approximately 84.5 acres of the site that is within the Central Urban Future Land Use Category will be subject to a Map Amendment to Intensive Development. A companion Text Amendment is also being proposed for the remaining 1,148 acres of property that is within DR/GR and Wetlands Future Land Use Categories to establish a Mixed Use Enhancement Communities Overlay. The result of the proposed changes will be to permit up to 1,600 residential dwelling units.

This analysis will determine the impacts of the proposed Comprehensive Plan/Text Amendment to permit the development of entire subject property with up to 1,600 residential dwelling units. It is important to note that the proposed Text Amendment includes the ability to share density across multiple future land use categories on the subject site.

The transportation related impacts of the proposed Amendment to the Lee Plan were evaluated pursuant to the criteria in the application document. This included an evaluation of the long range impact (20-year horizon) and short range impact (5-year horizon) the proposed amendment would have on the existing and future roadway infrastructure.

Methodology meeting notes were exchanged with the Lee County Staff to discuss the requirements of the traffic study. The initial methodology meeting notes are attached to this Memorandum for reference.

Under the existing Central Urban Future Land Use Category (FLU), approximately 84.5 acres of property can be developed with up to 845 residential dwelling units (10 DU/Acre). It is important to note that a commercial development is also permitted within the Central Urban FLU. At 84.5 acres, the site may possibly yield up to 1 million square feet of commercial uses. The Applicant is proposing a Map Amendment on this 84.5 acre portion of the property from Central Urban FLU to Intensive Development. Note, commercial development would still be permitted under the proposed Intensive Development Future Land Use Category.

Under the existing DR/GR and Wetlands Future Land Use Categories, the remaining 1,148 acres of property can be developed with up to 89 residential dwelling units (±630 acres under DR/GR FLU at a density of 1 DU/10 Acres & ±518 acres under Wetlands FLU at a density of 1 DU/20 Acres).

The Applicant is proposing a Text Amendment to establish Mixed Use Enhancement Communities Overlay with the above mentioned Map Amendment to support 1,600 residential dwelling units on the subject property.

Table 1 summarizes the residential intensities that could be developed under the existing land use designations and residential intensities as a result of the proposed Map and Text Amendment.

Table 1
Land Uses
Daniels South

Existing/ Proposed	Land Use Category	Intensity
Existing	Central Urban (±84.5 Acres)	845 Dwelling Units [1] (84.5 acres @ 10 DU/Acre)
	DR/GR & Wetlands (±1,148 Acres)	89 Dwelling Units (DR/GR ±630 Acres @ 1 DU/10 Acres & Wetlands ±518 Acres @ 1 DU/20 Acres)
	Total	934 Dwelling Units
Proposed	Intensive Development (±84.5 Acres)	Total 1,600 Dwelling Units [2]
	Mixed Use Enhancement Communities Overlay (±1,148 Acres)	

1. At 84.5 acres, the site may also possibly yield up to 1 million square feet of commercial uses.
2. The proposed Text Amendment includes the ability to share density across multiple future land use categories on the subject site.

The trip generation for the with and without amendment scenarios was determined by referencing the Institute of Transportation Engineer's (ITE) report, titled ***Trip Generation Manual***, 11th Edition. Land Use Code 210 (Single-Family Detached Housing) was utilized for the trip generation purposes of the residential uses on the site. Note, the site may still be permitted to be developed with other residential options such multi-family as long as the total unit count does not exceed 1,600 dwelling units. However, to be conservative in terms of trip generation, the site was assumed to consist of all single-family residential uses. **Table 2** and **Table 3** outline the anticipated weekday AM and PM peak hour trip generation based on the existing and proposed future land use categories, respectively. The daily trip generation is also indicated in both tables. The trip generation equations utilized are attached to this Memorandum for reference.

Table 2
Trip Generation
Based on Existing Land Use Categories
Daniels South

Land Use	Weekday A.M. Peak Hour			Weekday P.M. Peak Hour			Daily (2-way)
	In	Out	Total	In	Out	Total	
Single-Family Housing (934 Dwelling Units)	148	421	569	511	301	812	7,882

Table 3
Trip Generation
Based on Proposed Land Use Categories
Daniels South

Land Use	Weekday A.M. Peak Hour			Weekday P.M. Peak Hour			Daily (2-way)
	In	Out	Total	In	Out	Total	
Single-Family Housing (1,600 Dwelling Units)	241	688	929	848	498	1,346	12,933

Table 4 indicates the trip generation difference between the proposed and existing land use categories (Table 2 vs Table 3). The resultant trip change in Table 4 indicates that the trip generation will be **increased** in the AM and PM peak hour conditions as a result of the proposed amendment.

Table 4
Trip Generation – Resultant Trip Change (Table 2 vs Table 3)
Daniels South

Land Use	Weekday A.M. Peak Hour			Weekday P.M. Peak Hour			Daily (2-way)
	In	Out	Total	In	Out	Total	
Proposed Land Use Designations (1,600 Dwelling Units)	241	688	929	848	498	1,346	12,933
Existing Land Use Designation (934 Dwelling Units)	-148	-421	-569	-511	-301	-812	-7,882
Resultant Trip Change	**+93**	**+267**	**+360**	**+337**	**+197**	**+534**	**+5,051**

Long Range Impacts (20-year horizon)

The Lee County Metropolitan Planning Organization's (MPO) 2045 Long Range Transportation Plan was reviewed to determine if any future roadway improvements were planned in the vicinity of the subject site. Based on the review, roadway improvements within the vicinity of the subject site shown on the 2045 Financially Feasible Plan were the widening of Daniels Parkway to a six-lane facility from SR 82 to Gateway Boulevard, widening of Sunshine Boulevard to a four-lane facility from SR 82 to Lee Boulevard as well as extension of Alico Road (new four-lane facility) from Green Meadow Road to SR 82. The Lee County 2045 Highway Cost Feasible Plan map is attached to this Memorandum for reference.

The subject property is encompassed by Traffic Analysis Zone (TAZ) No. 4426. The current 2045 FSUTMS District One Regional Planning Model accounted for approximately 250,000 square feet of industrial uses, 300,000 square feet of retail uses, and 445,000 square feet of office uses (total of ±995,000 square feet of commercial) as well as up to 1,019 single-family residential uses in this TAZ. Note, the aforementioned floor areas were formulated based on the attached employment conversion factors provided by the Lee County Staff.

As initially discussed with the County Staff, since the existing TAZ No. 4426 already accounted for 1,019 single-family residential dwelling units and the proposed request is for up to 1,600 dwelling units, the analysis on the surrounding roadway network will be based on the net change of 581 dwelling units. Therefore, the long range transportation impact (20-year horizon) and the short range transportation impact (5-year horizon) will be evaluated based on the trip generation shown in **Table 5** below.

Table 5
Additional Trips Added to TAZ No. 4426
Daniels South

Land Use	Weekday A.M. Peak Hour			Weekday P.M. Peak Hour			Daily
	In	Out	Total	In	Out	Total	(2-way)
Single-Family Housing (581 Dwelling Units)	96	273	369	327	192	519	5,093

The Lee County Metropolitan Planning Organization's (MPO) long range transportation travel model was also reviewed in order to determine the impacts the amendment would have on the surrounding area. The base 2045 loaded network volumes were determined for the roadways within the study area and then the PM peak hour trips to be generated by additional trips in Table 5 were added to the projected 2045 volumes. The Level of Service for the surrounding roadways was then evaluated. The Level of Service threshold volumes were derived based on the attached ***Lee County Generalized Peak Hour Directional Service Volumes*** table as well as ***FDOT's Generalized Peak Hour Directional Volumes***, Table 7.

The results of the analysis indicate that the addition of the trips as a result of the proposed amendment to the projected 2045 volumes will not cause any roadway link to fall below the recommended minimum acceptable Level of Service thresholds as recommended in Policy 37.1.1 of the Lee County Comprehensive Plan. Therefore, no changes to the adopted long range transportation plan are required as result of the proposed land use change. Attached **Table 1A** and **Table 2A** reflect the Level of Service analysis based on the 2045 conditions.

Short Term Impacts Analysis (2025)

The 2020/2021-2024/2025 Lee County Transportation Capital Improvement Plan and the 2022-2026 Florida Department of Transportation Adopted Work Program were reviewed to determine the short term impacts the proposed land use change would have on the surrounding roadways. The only project funded for construction in the Study Area is the extension of Alico Road (new four-lane facility) from Green Meadow Road to SR 82. There are no other programmed improvements in the vicinity of the subject site.

Table 4A and **Table 5A** attached to this report indicate the projected 5-year planning Level of Service on the surrounding roadways based on the additional trips shown in Table 5. The existing peak hour, peak season, peak direction traffic volumes on the various roadway links were obtained from the most recent Lee County ***Public Facilities Level of Service and Concurrency Report***. Due to insufficient traffic data for Griffin Parkway in the aforementioned report, the existing peak hour, peak season, peak direction traffic volume for this roadway was derived from the traffic count obtained from the Lee County's ***Traffic Count Database System*** (TCDS). Note, for the new Alico Road extension from Green Meadow Road to SR 82, the existing peak hour, peak season, peak direction traffic volume was assumed based on the volume for Alico Road segment

from Ben Hill Griffin Parkway to Green Meadow Road as shown on the County's Concurrency Report.

The existing peak hour, peak season, peak direction traffic volumes were then factored by the appropriate annual growth rates in order to obtain the 2026 background traffic conditions on the area roadway network. The growth rates for each roadway were calculated based on historical traffic data obtained from the FDOT ***Florida Traffic Online*** resource as well as the traffic data from the latest ***Lee County Traffic Count Report***. Note, due to lack of historical traffic data for Gateway Boulevard and Griffin Parkway, a minimum annual growth rate of 2% was assumed. Based on the project traffic distribution illustrated within Table 4A, the roadway link data was analyzed for the year 2026 without the proposed amendment and year 2026 with the proposed amendment. Traffic data obtained from the aforementioned Lee County and FDOT resources is attached to this Memorandum for reference.

The results of the analysis indicate that the addition of the trips as a result of the proposed amendment to the projected 2026 volumes will not cause any roadway link to fall below the minimum acceptable Level of Service standards. It is important to note that there were several roadway segments that were shown to operate at a poor Level of Service in 2026 background (without the proposed amendment) traffic conditions. These roadway segments Daniels Parkway, Gunnery Road north of Lee Boulevard, and Lee Boulevard east and west of Gunnery Road. These roadways are considered as future pre-existing deficiencies that this project should not be held responsible for. Therefore, based on this analysis no modifications will be necessary to the Lee County or FDOT short term capital improvement programs.

Conclusion

The proposed Comprehensive Plan/Text Amendment is for approximately 1,233 acres of property located at the southeast corner of Daniels Parkway and SR 82 in Lee County, Florida. Based upon the roadway link Level of Service analysis conducted as a part of this Memorandum, the proposed amendment will not cause any roadway link to fall below the recommended minimum acceptable Level of Service thresholds as recommended in Policy 37.1.1 of the Lee County Comprehensive Plan. Therefore, no roadway capacity improvements will be warranted as a result of the additional traffic to be generated by the proposed amendment.

No modifications are necessary to the Short Term Capital Improvement Plan or the Long Range Transportation Plan to support the proposed Amendment. In addition, the proposed amendment will not significantly alter the socio-economic data forecasts that were utilized in the development of the Long Range Transportation Plan.

Attachments

METHODOLOGY MEETING NOTES

Yury Bykau

From: Yury Bykau
Sent: Monday, January 24, 2022 1:57 PM
To: Wu, Lili
Subject: RE: Traffic Study Methodology - SEC of Daniels Pkwy/SR 82

Wu,

As discussed today, we will be revising our CPA analysis for this one to be consistent with our application. Since the existing TAZ No. 4426 already accounted for 1,019 single-family residential dwelling units and the proposed request is for up to 1,600 dwelling units on the entire site, the long range and short range analysis on the surrounding roadway network will be based on the net change of 581 dwelling units as shown below.

Additional Trips Added to TAZ No. 4426
Daniels South

Land Use	Weekday A.M. Peak Hour			Weekday P.M. Peak Hour			Daily (2-way)
	In	Out	Total	In	Out	Total	
Single-Family Housing (581 Dwelling Units)	96	273	369	327	192	519	5,093

Thanks,

TR TRANSPORTATION CONSULTANTS, INC
Yury Bykau, P.E.
TR Transportation Consultants, Inc.
2726 Oak Ridge Ct. STE 503
Fort Myers, FL 33901
239-692-0589 (c)
239-278-3090 (o) ext. 3
239-278-1906 (f)
yury@trtrans.net

From: Yury Bykau
Sent: Thursday, October 14, 2021 9:04 AM
To: Wu, Lili <LWu@leegov.com>
Cc: Ted Treesh <tbt@trtrans.net>
Subject: RE: Traffic Study Methodology - SEC of Daniels Pkwy/SR 82

Wu,

The client is changing their request for this CPA application. The request is now to change the future land use on 84.5 acres portion of the property within Central Urban FLU (see below FLU map) to Intensive Development FLU to allow up to 1,183 residential units. We're going to assume these 1,183 units are all multi-family since you can't realistically fit that many SF units on this 84.5 acre tract. We are also proposing a text amendment on the 1,148 acres portion of the property that is currently within DR/GR & Wetlands to allow for 417 dwelling units (we will assume all single-family). So grand total of 1,600 Units will be permitted with this CPA application. See property boundary below (Figure 1). The trip gen for 1,600 units (1,183 MF + 417 SF) is also shown below for reference based on ITE Trip Generation Manual, 11th Edition.

Table 1
Trip Generation - Proposed

Land Use	Weekday P.M. Peak Hour			Daily (2-way)
	In	Out	Total	
Single-Family Detached Housing – 1,148 Acre (417 Dwelling Units)	239	141	380	3,753
Multi-Family Housing – 84.5 Acre (1,183 Dwelling Units)	333	196	529	7,658
Total (1,600 Dwelling Units)	**572**	**337**	**909**	**11,411**

Under the existing Central Urban FLU the 84.5 acres could be developed with up to 845 units (again going to assume all multi-family). Under existing DR/GR & Wetlands FLU the 1,148 acres could be developed with up to 89 units (again going to assume all units are SF). A total of 934 units (845 MF + 89 SF) is currently permitted based on County's FLU entitlements. Trip Gen for the currently permitted residential uses is shown Table 2. The net increase in trips is shown in Table 3 (Table 1 vs Table 2).

Table 2
Trip Generation - Permitted

Land Use	Weekday P.M. Peak Hour			Daily (2-way)
	In	Out	Total	
Single-Family Detached Housing – 1,148 Acre (89 Dwelling Units)	56	33	89	906
Multi-Family Housing – 84.5 Acre (845 Dwelling Units)	242	142	384	5,492
Total (934 Dwelling Units)	**298**	**175**	**473**	**6,398**

Table 3
Trip Generation – Proposed vs Permitted (Table 1 vs Table 2)

Land Use	Weekday P.M. Peak Hour			Daily (2-way)
	In	Out	Total	
Proposed Residential (1,600 Dwelling Units)	572	337	909	11,411
Permitted Residential (934 Dwelling Units)	-298	-175	-473	-6,398
Trip Change	+274	+162	+436	+5,013

However, this site is located within TAZ# 4426 (see TAZ boundary below which is labeled at TAZ #962 in Figure 2). The current 2045 District One Model already accounted for 474 industrial employees (250k SF), 759 commercial employees

(300k SF) and 1,477 service employees (445k SF per General Office – Average conversion) and up to 1,019 SF units in this TAZ. The only area in this TAZ that can be really developed with the 250k SF industrial, 300k SF retail and 445k SF office is the 84.5 acres under Central Urban FLU, which would generate more trips than the 1,183 units we're proposing on this portion of the site. So we're not technically increasing the intensity that was assumed in the model for the 84.5 acre portion.

Therefore the only trips that will be added to the roadway network in our CPA analysis (long range and short range) are those shown in Table 4, which is associated with the text amendment on the 1,148 acre portion of the property. Do you agree with this approach for our CPA TIS? Sorry if this is a little convoluted. Call me if you have questions.

Table 4
Trip Generation – Proposed vs Permitted on 1,148 acre

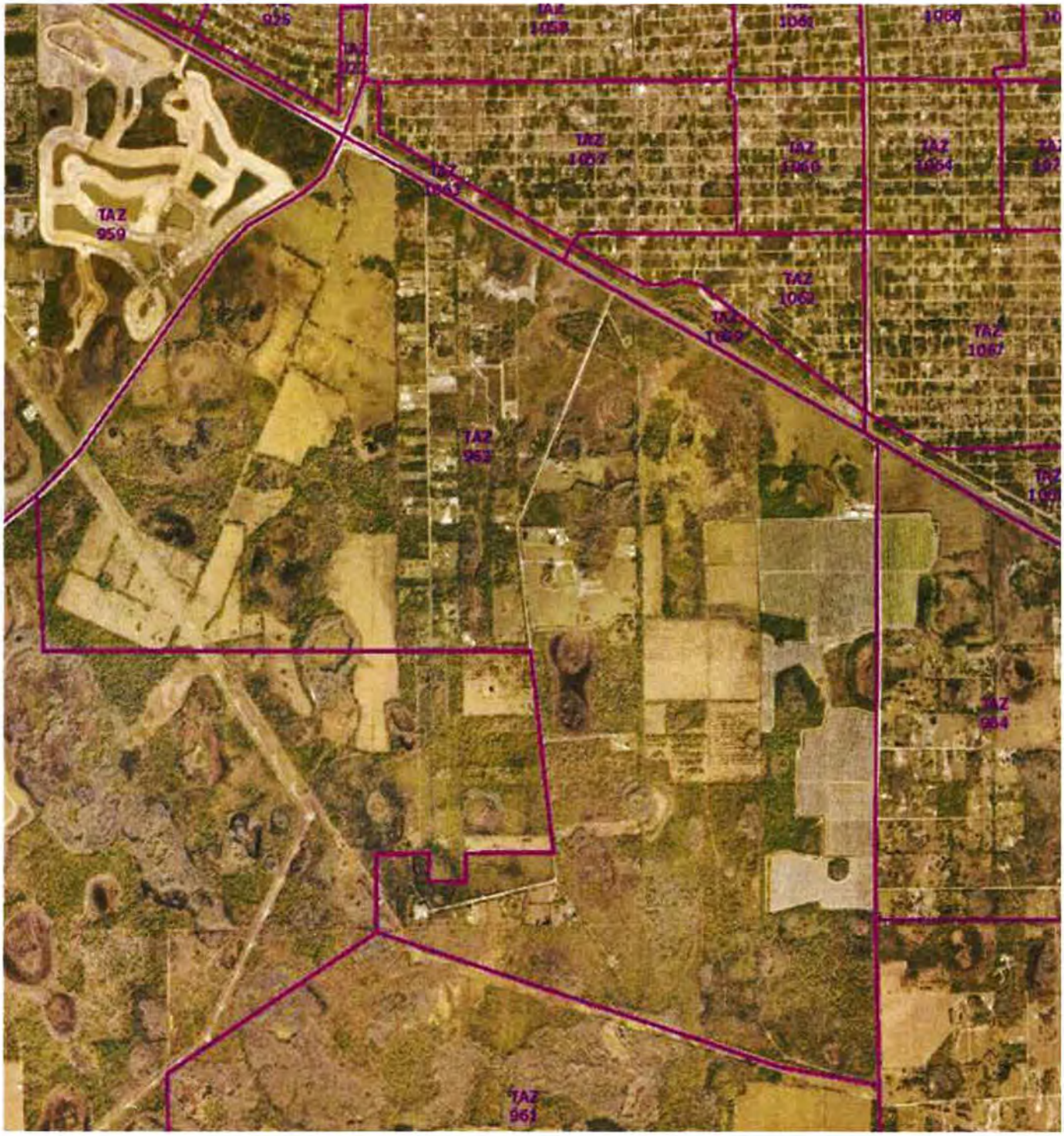
Land Use	Weekday P.M. Peak Hour			Daily (2-way)
	In	Out	Total	
Proposed FLU (417 SF Dwelling Units – 1,148 acres)	239	141	380	3,753
Current FLU DR/GR & Wetlands (89 SF Dwelling Units – 1,148 acres)	-56	-33	-89	-906
Trip Change *	**+183**	**+108**	**+291**	**+2,847**

***Trips to be added to our 2045 and 2026 link LOS analysis.**

Figure 1: Property Boundary



Figure 2: TAZ # 4426 Boundary



Thanks,

TR TRANSPORTATION CONSULTANTS, INC

Yury Bykau, E.I.
TR Transportation Consultants, Inc.
2726 Oak Ridge Ct. STE 503
Fort Myers, FL 33901
239-692-0589 (c)
239-278-3090 (o) ext. 3

TABLES 1A & 2A

2045 LOS ANALYSIS

TABLE 1A
LEVEL OF SERVICE THRESHOLDS
2045 LONG RANGE TRANSPORTATION ANALYSIS - DANIELS SOUTH

		2045 E + C NETWORK LANES		GENERALIZED SERVICE VOLUMES				
				LOS A	LOS B	LOS C	LOS D	LOS E
ROADWAY	ROADWAY SEGMENT	# Lanes	Roadway Designation	VOLUME	VOLUME	VOLUME	VOLUME	VOLUME
SR 82	E. of Sunshine Blvd	6LD	Arterial	0	2,700	3,900	4,920	5,600
	E. of Daniels Pkwy	6LD	Arterial	0	2,700	3,900	4,920	5,600
	W. of Daniels Pkwy	6LD	Arterial	0	0	3,087	3,171	3,171
	W. of Griffin Drive	6LD	Arterial	0	0	3,087	3,171	3,171
Daniels Pkwy	S. of SR 82	6LD	Controlled Access Facility	0	430	3,050	3,180	3,180
	S. of Gateway Blvd	6LD	Controlled Access Facility	0	430	3,050	3,180	3,180
Gunnery Rd	N. of SR 82	4LD	Arterial	0	250	1,840	1,960	1,960
	N. of Lee Blvd	2LU	Arterial	0	140	800	860	860
Sunshine Blvd	N. of SR 82	4LD	Arterial	0	250	1,840	1,960	1,960
Lee Blvd	W. of Gunnery Rd	6LD	Arterial	0	250	1,840	1,960	1,960
	E. of Gunnery Rd	6LD	Arterial	0	250	1,840	1,960	1,960
Alico Rd Ext.	S. of SR 82	4LD	Controlled Access Facility	0	270	1,970	2,100	2,100
Gateway Blvd	W. of Daniels Pkwy	4LD	Arterial	0	0	710	1,590	1,660
Griffin Dr	S. of SR 82	2LU	Collector	0	0	310	660	740

[ ] - Denotes the LOS Standard for each roadway segment

* Level of Service Thresholds for Lee County roadways were taken from the Generalized Peak Hour Directional Service Volume tables for Urbanized Areas (dated April 2016)
* Level of Service Thresholds for State mantained roadways were taken from FDOT's Generalized Peak Hour Directional Volumes for Florida's Urbanized Areas Table 7.

TABLE 2A
2045 ROADWAY LINK LEVEL OF SERVICE CALCULATIONS
DANIELS SOUTH

TOTAL PM PEAK HOUR PROJECT TRAFFIC = 519 VPH IN= 327 OUT= 192

ROADWAY	ROADWAY SEGMENT	2045 FSUTMS AADT	COUNTY PCS / FDOT SITE #	AADT BACKGROUND TRAFFIC	K-100 FACTOR	100TH HIGHEST HOUR PK DIR 2-WAY VOLUME	D FACTOR	PM PK HR PEAK DIRECTION	2045 PEAK DIRECTION TRAFFIC VOLUMES & LOS VOLUME	LOS	PROJECT TRAFFIC DIST.	PK DIR PM PROJ TRAFFIC	2045 BACKGROUND PLUS PROJ PEAK DIRECTION TRAFFIC VOLUMES & LOS VOLUME	LOS
SR 82	E. of Sunshine Blvd	62,607	120068	62,607	0.090	5,635	0.54	EAST	3,043	C	1%	3	3,046	C
	E. of Daniels Pkwy	66,063	126021	66,063	0.090	5,946	0.54	EAST	3,211	C	5%	16	3,227	C
	W. of Daniels Pkwy	25,743	120108	25,743	0.090	2,317	0.54	WEST	1,066	C	40%	131	1,197	C
	W. of Griffin Drive	32,674	120107	32,674	0.090	2,941	0.54	WEST	1,353	C	35%	114	1,467	C
Daniels Pkwy	S. of SR 82	67,923	48	67,923	0.107	7,268	0.63	NORTH	4,579	F	45%	147	4,726	F
	S. of Gateway Blvd	61,802	48	61,802	0.107	6,613	0.63	NORTH	4,166	F	35%	114	4,280	F
Gunnery Rd	N. of SR 82	39,412	124104	39,412	0.090	3,547	0.534	NORTH	1,894	D	10%	33	1,927	D
	N. of Lee Blvd	21,799	124104	21,799	0.090	1,962	0.534	NORTH	1,048	F	5%	16	1,064	F
Sunshine Blvd	N. of SR 82	29,145	124182	29,145	0.090	2,623	0.593	NORTH	1,555	C	2%	7	1,562	C
Lee Blvd	W. of Gunnery Rd	70,112	22	70,112	0.090	6,310	0.62	EAST	3,912	F	2%	7	3,919	F
	E. of Gunnery Rd	76,513	22	76,513	0.090	6,886	0.62	EAST	4,269	F	3%	10	4,279	F
Alico Rd Ext.	S. of SR 82	44,682	53	44,682	0.101	4,513	0.52	NORTH	2,347	F	3%	10	2,357	F
Gateway Blvd	W. of Daniels Pkwy	14,709	48	14,709	0.107	1,574	0.63	WEST	582	C	5%	16	598	C
Griffin Dr	S. of SR 82	9,448	48	9,448	0.107	1,011	0.63	SOUTH	374	D	5%	16	390	D

* The K-100 and D factors for County mantained roadways were obtained from Lee County Traffic Count Report.
* The K-100 and D factors for FDOT mantained roadways were obtained from Florida Traffic Online resource.
* Due to lack of traffic data in the Lee County Traffic Count Report, the K-100 and D factors for Gunnery Road & Sunshine Boulevard were obtained from FDOT's Florida Traffic Online Webpage.
* Due to lack of traffic data for Gateway Boulevard and Griffin Drive, the K and D factors were used from Lee County's PCS #48.

Note: Remaining 5% of project traffic was assigned to/from Paul J. Doherty Pkwy.

TABLES 3A & 4A
5-YEAR LOS ANALYSIS

TABLE 3A
LEVEL OF SERVICE THRESHOLDS
DANIELS SOUTH

				GENERALIZED SERVICE VOLUMES				
				LOS A	LOS B	LOS C	LOS D	LOS E
ROADWAY	ROADWAY SEGMENT	# LANES	ROADWAY DESIGNATION	VOLUME	VOLUME	VOLUME	VOLUME	VOLUME
SR 82	E. of Sunshine Blvd	6LD	Arterial	0	2,700	3,900	4,920	5,600
	E. of Daniels Pkwy	6LD	Arterial	0	2,700	3,900	4,920	5,600
	W. of Daniels Pkwy	6LD	Arterial	0	0	3,087	3,171	3,171
	W. of Griffin Drive	6LD	Arterial	0	0	3,087	3,171	3,171
Daniels Pkwy	S. of SR 82	4LD	Controlled Access Facility	0	270	1,970	2,100	2,100
	S. of Gateway Blvd	6LD	Controlled Access Facility	0	430	3,050	3,180	3,180
Gunnery Rd	N. of SR 82	4LD	Arterial	0	250	1,840	1,960	1,960
	N. of Lee Blvd	2LU	Arterial	0	140	800	860	860
Sunshine Blvd	N. of SR 82	2LU	Arterial	0	140	800	860	860
Lee Blvd	W. of Gunnery Rd	6LD	Arterial	0	250	1,840	1,960	1,960
	E. of Gunnery Rd	6LD	Arterial	0	250	1,840	1,960	1,960
Alico Rd Ext.	S. of SR 82	4LD	Controlled Access Facility	0	270	1,970	2,100	2,100
Gateway Blvd	W. of Daniels Pkwy	4LD	Arterial	0	0	710	1,590	1,660
Griffin Dr	S. of SR 82	2LU	Collector	0	0	310	660	740

- Denotes the LOS Standard for each roadway segment

* Level of Service Thresholds for Lee County arterials/collectors taken from the Generalized Peak Hour Directional Service Volume tables for Urbanized Areas (dated April 2016)

* Level of Service Thresholds for State mantained roadways were taken from FDOT's Generalized Peak Hour Directional Volumes for Florida's Urbanized Areas Table 7.

TABLE 4A
LEE COUNTY TRAFFIC COUNTS AND CALCULATIONS
DANIELS SOUTH

TOTAL PROJECT TRAFFIC AM = 369 VPH IN = 96 OUT= 273
TOTAL PROJECT TRAFFIC PM = 519 VPH IN= 327 OUT= 192

ROADWAY	ROADWAY SEGMENT	LCDOT PCS OR FDOT SITE #	BASE YR ADT	2020 ADT	YRS OF GROWTH.[1]	ANNUAL RATE	2019 PK HR PK SEASON PEAK DIR.[2]	2026 PK HR PK SEASON PEAK DIRECTION VOLUME	LOS	V/C Ratio	PERCENT PROJECT TRAFFIC	AM PROJ TRAFFIC	PM PROJ TRAFFIC	2026 BCKGRND + AM PROJ VOLUME	LOS	V/C Ratio	2026 BCKGRND + PM PROJ VOLUME	LOS	V/C Ratio
SR 82	E. of Sunshine Blvd	120068	10,300	11,600	15	2.00%	1,635	1,878	B	0.38	1%	3	3	1,881	B	0.38	1,881	B	0.38
	E. of Daniels Pkwy	126021	19,921	28,500	12	3.03%	1,635	2,015	B	0.41	5%	14	16	2,029	B	0.41	2,031	B	0.41
	W. of Daniels Pkwy	120108	10,700	21,000	15	4.60%	1,166	1,597	C	0.50	40%	109	131	1,706	C	0.54	1,728	C	0.54
	W. of Griffin Drive	120107	12,600	24,500	15	4.53%	1,166	1,590	C	0.50	35%	96	114	1,686	C	0.53	1,705	C	0.54
Daniels Pkwy	S. of SR 82	524	24,400	37,400	9	4.86%	1,726	2,406	F	1.15	45%	123	147	2,529	F	1.20	2,553	F	1.22
	S. of Gateway Blvd	524	24,400	37,400	9	4.86%	2,412	3,362	F	1.06	35%	96	114	3,458	F	1.09	3,477	F	1.09
Gunnery Rd	N. of SR 82	290	17,300	26,300	9	4.76%	965	1,337	C	0.68	10%	27	33	1,364	C	0.70	1,369	C	0.70
	N. of Lee Blvd	289	14,700	16,700	9	2.00%	773	888	F	1.03	5%	14	16	902	F	1.05	904	F	1.05
Sunshine Blvd	N. of SR 82	124182	4,100	7,400	9	6.78%	369	584	C	0.68	2%	5	7	590	C	0.69	591	C	0.69
Lee Blvd	W. of Gunnery Rd	22	28,600	36,500	9	2.75%	2,161	2,612	F	1.33	2%	5	7	2,618	F	1.34	2,619	F	1.34
	E. of Gunnery Rd	22	28,600	36,500	9	2.75%	2,131	2,576	F	1.31	3%	8	10	2,584	F	1.32	2,586	F	1.32
Alico Rd Ext.	S. of SR 82	53	26,200	20,200	9	2.00%	385	442	C	0.21	3%	8	10	450	C	0.21	452	C	0.22
Gateway Blvd	W. of Daniels Pkwy	536	N/A	N/A	N/A	2.00%	1,208	1,388	D	0.84	5%	14	16	1,401	D	0.84	1,404	D	0.85
Griffin Dr	S. of SR 82	534	N/A	N/A	N/A	2.00%	431	495	D	0.67	5%	14	16	509	D	0.69	511	D	0.69

1 AGR for roadways was calculated based the historical traffic data obtained from Florida Traffic Online webpage and Lee County Traffic Count Report

* Due to lack of historical traffic data for Gateway Blvd and Griffin Dr, a minimum 2% AGR was assumed.

2 Current peak hour peak season peak direction traffic volumes for all County roadways were obtained from the 2020 Lee County Public Facilities Level of Service and Concurrency Report.

* For new Alico Road extension, the current peak hour peak season peak direction traffic volume was assumed based on the volume for Alico Road segment from Ben Hill Griffin Pkwy to Green Meadows Road as shown on the County's Public Facilities Level of Service and Concurrency Report.

* Due to lack of traffic data for Griffin Dr, the current peak hour peak season peak direction traffic volume was obtained from the traffic count from Lee County's Traffic Count Database System (TCDS).

LEE COUNTY GENERALIZED SERVICE VOLUME TABLE

Lee County
Generalized Peak Hour Directional Service Volumes
Urbanized Areas

April 2016 c:\input5

Uninterrupted Flow Highway

Level of Service

Lane	Divided	A	B	C	D	E
1	Undivided	130	420	850	1,210	1,640
2	Divided	1,060	1,810	2,560	3,240	3,590
3	Divided	1,600	2,720	3,840	4,860	5,380

Arterials

Class I (40 mph or higher posted speed limit)

Level of Service

Lane	Divided	A	B	C	D	E
1	Undivided	*	140	800	860	860
2	Divided	*	250	1,840	1,960	1,960
3	Divided	*	400	2,840	2,940	2,940
4	Divided	*	540	3,830	3,940	3,940

Class II (35 mph or slower posted speed limit)

Level of Service

Lane	Divided	A	B	C	D	E
1	Undivided	*	*	330	710	780
2	Divided	*	*	710	1,590	1,660
3	Divided	*	*	1,150	2,450	2,500
4	Divided	*	*	1,580	3,310	3,340

Controlled Access Facilities

Level of Service

Lane	Divided	A	B	C	D	E
1	Undivided	*	160	880	940	940
2	Divided	*	270	1,970	2,100	2,100
3	Divided	*	430	3,050	3,180	3,180

Collectors

Level of Service

Lane	Divided	A	B	C	D	E
1	Undivided	*	*	310	660	740
1	Divided	*	*	330	700	780
2	Undivided	*	*	730	1,440	1,520
2	Divided	*	*	770	1,510	1,600

Note: the service volumes for I-75 (freeway), bicycle mode, pedestrian mode, and bus mode should be from FDOT's most current version of LOS Handbook.

FDOT GENERALIZED PEAK HOUR DIRECTIONAL VOUMES

TABLE 7

TABLE 7 Generalized **Peak Hour Directional** Volumes for Florida's Urbanized Areas

January 2020

INTERRUPTED FLOW FACILITIES

STATE SIGNALIZED ARTERIALS

Class I (40 mph or higher posted speed limit)

Lanes	Median	B	C	D	E
1	Undivided	*	830	880	**
2	Divided	*	1,910	2,000	**
3	Divided	*	2,940	3,020	**
4	Divided	*	3,970	4,040	**

Class II (35 mph or slower posted speed limit)

Lanes	Median	B	C	D	E
1	Undivided	*	370	750	800
2	Divided	*	730	1,630	1,700
3	Divided	*	1,170	2,520	2,560
4	Divided	*	1,610	3,390	3,420

Non-State Signalized Roadway Adjustments

(Alter corresponding state volumes by the indicated percent.)

Non-State Signalized Roadways - 10%

Median & Turn Lane Adjustments

Lanes	Median	Exclusive Left Lanes	Exclusive Right Lanes	Adjustment Factors
1	Divided	Yes	No	+5%
1	Undivided	No	No	-20%
Multi	Undivided	Yes	No	-5%
Multi	Undivided	No	No	-25%
–	–	–	Yes	+5%

One-Way Facility Adjustment

Multiply the corresponding directional volumes in this table by 1.2

BICYCLE MODE[2]

(Multiply vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)

Paved Shoulder/Bicycle Lane Coverage	B	C	D	E
0-49%	*	150	390	1,000
50-84%	110	340	1,000	>1,000
85-100%	470	1,000	>1,000	**

PEDESTRIAN MODE[2]

(Multiply vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)

Sidewalk Coverage	B	C	D	E
0-49%	*	*	140	480
50-84%	*	80	440	800
85-100%	200	540	880	>1,000

BUS MODE (Scheduled Fixed Route)[3]

(Buses in peak hour in peak direction)

Sidewalk Coverage	B	C	D	E
0-84%	> 5	≥ 4	≥ 3	≥ 2
85-100%	> 4	≥ 3	≥ 2	≥ 1

UNINTERRUPTED FLOW FACILITIES

FREEWAYS

Core Urbanized

Lanes	B	C	D	E
2	2,230	3,100	3,740	4,080
3	3,280	4,570	5,620	6,130
4	4,310	6,030	7,490	8,170
5	5,390	7,430	9,370	10,220
6	6,380	8,990	11,510	12,760

Urbanized

Lanes	B	C	D	E
2	2,270	3,100	3,890	4,230
3	3,410	4,650	5,780	6,340
4	4,550	6,200	7,680	8,460
5	5,690	7,760	9,520	10,570

Freeway Adjustments

Auxiliary Lane	Ramp Metering
+ 1,000	+ 5%

UNINTERRUPTED FLOW HIGHWAYS

Lanes	Median	B	C	D	E
1	Undivided	580	890	1,200	1,610
2	Divided	1,800	2,600	3,280	3,730
3	Divided	2,700	3,900	4,920	5,600

Uninterrupted Flow Highway Adjustments

Lanes	Median	Exclusive left lanes	Adjustment factors
1	Divided	Yes	+5%
Multi	Undivided	Yes	-5%
Multi	Undivided	No	-25%

[1]Values shown are presented as peak hour directional volumes for levels of service and are for the automobile/truck modes unless specifically stated. This table does not constitute a standard and should be used only for general planning applications. The computer models from which this table is derived should be used for more specific planning applications. The table and deriving computer models should not be used for corridor or intersection design, where more refined techniques exist. Calculations are based on planning applications of the HCM and the Transit Capacity and Quality of Service Manual.

[2] Level of service for the bicycle and pedestrian modes in this table is based on number of vehicles, not number of bicyclists or pedestrians using the facility.

[3] Buses per hour shown are only for the peak hour in the single direction of the higher traffic flow.

* Cannot be achieved using table input value defaults.

** Not applicable for that level of service letter grade. For the automobile mode, volumes greater than level of service D become F because intersection capacities have been reached. For the bicycle mode, the level of service letter grade (including F) is not achievable because there is no maximum vehicle volume threshold using table input value defaults.

Source:
Florida Department of Transportation
Systems Implementation Office
https://www.fdot.gov/planning/systems/

TRAFFIC DATA

FDOT FLORIDA TRAFFIC ONLINE

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2020 HISTORICAL AADT REPORT

COUNTY: 12 - LEE

SITE: 0068 - SR 82, WEST OF BELL BOULEVARD S (LC212)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2020	11600 S	E 5700	W 5900	9.00	54.00	13.90
2019	11800 F	E 5800	W 6000	9.00	57.60	13.90
2018	11400 C	E 5600	W 5800	9.00	58.50	13.90
2017	12200 C	E 6100	W 6100	9.00	58.20	11.20
2016	10200 C	E 5100	W 5100	9.00	58.20	9.70
2015	10100 C	E 5000	W 5100	9.00	62.20	11.40
2014	10300 C	E 5200	W 5100	9.00	63.40	9.20
2013	8600 F	E 4300	W 4300	9.00	64.30	11.60
2012	8400 C	E 4200	W 4200	9.00	60.20	11.60
2011	9000 F	E 4500	W 4500	9.00	61.10	13.10
2010	8800 C	E 4400	W 4400	10.06	63.11	13.10
2009	9100 C	E 4600	W 4500	10.54	62.17	11.20
2008	8000 C	E 4000	W 4000	10.50	66.40	14.60
2007	10100 C	E 5200	W 4900	9.62	58.02	15.70
2006	10600 C	E 5400	W 5200	8.81	55.95	16.70
2005	10300 C	E 5300	W 5000	9.60	53.80	18.90

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2020 HISTORICAL AADT REPORT

COUNTY: 12 - LEE

SITE: 6021 - SR 82/IMMOKOLEE RD, 500' E OF GUNNERY RD, PTMS 101, LCPR 21

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2020	28500 X	0	0	9.00	54.00	7.70
2019	30000 T	0	0	9.00	57.60	9.50
2018	29000 S	0	0	9.00	58.50	9.40
2017	28500 F	0	0	9.00	65.10	7.30
2016	28137 C	E 14317	W 13820	9.00	65.10	6.00
2015	26771 C	E 13569	W 13202	9.00	65.10	7.70
2014	25227 C	E 12754	W 12473	9.00	66.20	8.40
2013	23844 C	E 12596	W 11248	9.00	68.60	5.40
2012	22000 F	E 0	W 0	9.00	66.60	7.40
2011	22182 C	E 11177	W 11005	9.00	66.60	9.10
2010	21207 C	E 10845	W 10362	9.51	66.56	6.80
2009	19500 F	0	0	9.96	65.45	7.80
2008	19921 C	E 10020	W 9901	9.96	65.45	9.90

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2020 HISTORICAL AADT REPORT

COUNTY: 12 - LEE

SITE: 0108 - SR 82, EAST OF COMMERCE LAKES DRIVE LC 222

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2020	21000 C	E 10500	W 10500	9.00	54.00	7.80
2019	19800 S	E 9800	W 10000	9.00	57.60	7.70
2018	19100 F	E 9400	W 9700	9.00	58.50	7.70
2017	18300 C	E 9000	W 9300	9.00	58.20	7.70
2016	17200 C	E 8600	W 8600	9.00	58.20	6.70
2015	15700 C	E 8000	W 7700	9.00	62.20	7.10
2014	15100 F	E 7700	W 7400	9.00	63.40	6.70
2013	14700 C	E 7500	W 7200	9.00	64.30	6.70
2012	12700 C	E 6300	W 6400	9.00	60.20	7.50
2011	13000 F	E 6500	W 6500	9.00	61.10	8.60
2010	12800 C	E 6400	W 6400	10.06	63.11	8.60
2009	12200 C	E 6100	W 6100	10.54	62.17	8.80
2008	11100 C	E 5600	W 5500	10.50	66.40	12.30
2007	13200 C	E 6800	W 6400	9.62	58.02	13.40
2006	13100 C	E 6600	W 6500	8.81	55.95	12.70
2005	10700 C	E 5400	W 5300	9.60	53.80	13.60

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2020 HISTORICAL AADT REPORT

COUNTY: 12 - LEE

SITE: 0107 - SR 82, EAST OF OWEN AVENUE SOUTH

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2020	24500 C	E 12000	W 12500	9.00	54.00	8.40
2019	22500 S	E 11000	W 11500	9.00	57.60	8.00
2018	21500 F	E 10500	W 11000	9.00	58.50	8.00
2017	20500 C	E 10000	W 10500	9.00	58.20	8.00
2016	18900 C	E 9500	W 9400	9.00	58.20	5.70
2015	17100 C	E 8600	W 8500	9.00	62.20	6.70
2014	17600 F	E 9000	W 8600	9.00	63.40	5.90
2013	17000 C	E 8700	W 8300	9.00	64.30	5.90
2012	14100 C	E 7100	W 7000	9.00	60.20	6.60
2011	15100 F	E 7600	W 7500	9.00	61.10	6.70
2010	14900 C	E 7500	W 7400	10.06	63.11	6.70
2009	14300 C	E 7300	W 7000	10.54	62.17	7.90
2008	12700 C	E 6500	W 6200	10.50	66.40	11.10
2007	15100 C	E 7900	W 7200	9.62	58.02	12.10
2006	15700 C	E 8000	W 7700	8.81	55.95	11.60
2005	12600 C	E 6200	W 6400	9.60	53.80	11.10

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2020 HISTORICAL AADT REPORT

COUNTY: 12 - LEE

SITE: 4104 - GUNNERY RD, NORTH OF LEE BLVD

YEAR	AADT	DIRECTION 1		DIRECTION 2		*K FACTOR	D FACTOR	T FACTOR
2020	17500 E	N	0	S	0	9.00	53.40	6.00
2019	17000 F	N		S		9.00	53.80	10.10
2018	16400 C	N	7900	S	8500	9.00	53.30	10.10
2017	15100 T	N	7300	S	7800	9.00	55.40	10.50
2016	14100 S	N	6800	S	7300	9.00	63.90	5.80
2015	13400 F	N	6500	S	6900	9.00	55.50	5.80
2014	12800 C	N	6200	S	6600	9.00	55.20	5.80
2013	17300 S	N	8600	S	8700	9.00	55.00	10.50
2012	17300 F	N	8600	S	8700	9.00	55.30	11.50
2011	17400 C	N	8600	S	8800	9.00	55.20	11.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2020 HISTORICAL AADT REPORT

COUNTY: 12 - LEE

SITE: 4182 - SUNSHINE BLVD., NORTH OF S.R. 82

YEAR	AADT	DIRECTION 1		DIRECTION 2		*K FACTOR	D FACTOR	T FACTOR
2020	7400 E		0		0	9.00	59.30	7.30
2019	7400 F	N		S		9.00	59.60	7.30
2018	7100 C	N	3700	S	3400	9.00	53.30	7.30
2017	6300 T	N	3300	S	3000	9.00	55.40	7.30
2016	5900 S	N	3100	S	2800	9.00	63.90	4.90
2015	5600 F	N	2900	S	2700	9.00	55.50	4.90
2014	5400 C	N	2800	S	2600	9.00	55.20	4.90
2013	4100 S		0		0	9.00	55.00	6.50
2012	4100 F		0		0	9.00	55.30	7.40
2011	4100 C	N	0	S	0	9.00	55.20	9.10

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

TRAFFIC DATA FROM LEE COUNTY

TRAFFIC COUNT REPORT

PCS 22 - Lee Boulevard west of Gunnery Rd

2020 AADT = 36,500 VPD

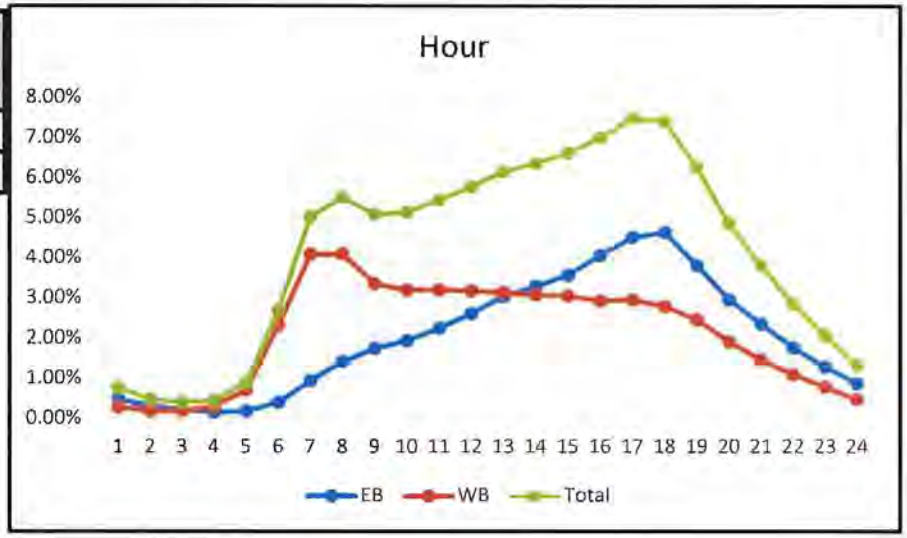
Hour	EB	WB	Total
0	0.48%	0.29%	0.77%
1	0.30%	0.19%	0.49%
2	0.22%	0.19%	0.41%
3	0.15%	0.30%	0.45%
4	0.19%	0.72%	0.90%
5	0.40%	2.31%	2.70%
6	0.94%	4.09%	5.02%
7	1.41%	4.10%	5.51%
8	1.74%	3.36%	5.09%
9	1.94%	3.20%	5.14%
10	2.25%	3.20%	5.45%
11	2.60%	3.18%	5.78%
12	3.03%	3.14%	6.16%
13	3.29%	3.08%	6.37%
14	3.57%	3.05%	6.63%
15	4.07%	2.93%	7.01%
16	4.53%	2.96%	7.49%
17	4.64%	2.78%	7.42%
18	3.81%	2.46%	6.27%
19	2.96%	1.91%	4.87%
20	2.35%	1.46%	3.81%
21	1.76%	1.09%	2.85%
22	1.28%	0.79%	2.07%
23	0.86%	0.47%	1.33%

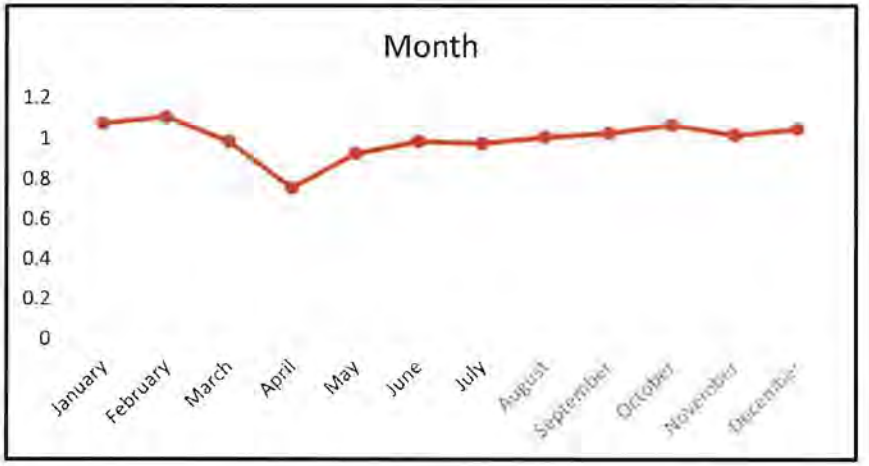
Month of Year	Fraction
January	1.08
February	1.11
March	0.99
April	0.76
May	0.93
June	0.99
July	0.98
August	1.01
September	1.03
October	1.07
November	1.02
December	1.05

Day of Week	Fraction
Sunday	0.75
Monday	1.02
Tuesday	1.06
Wednesday	1.05
Thursday	1.06
Friday	1.12
Saturday	0.93

Directional Factor		
AM	0.81	WB
PM	0.62	EB

Design Hour Volume		
#	Volume	Factor
5	3447	0.094
10	3425	0.094
20	3407	0.093
30	3373	0.092
50	3337	0.091
100	3274	0.090
150	3208	0.088
200	3126	0.086





PCS 53 - Alico Rd east of I-75

2020 AADT = 20,200 VPD

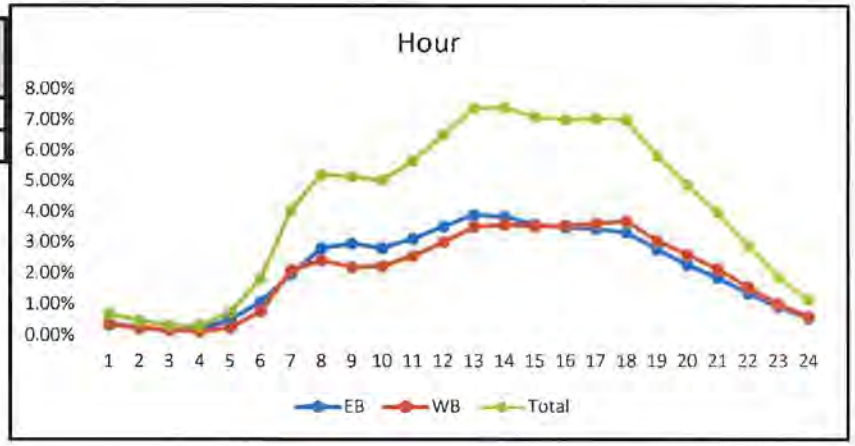
Hour	EB	WB	Total
0	0.33%	0.38%	0.71%
1	0.22%	0.26%	0.49%
2	0.15%	0.18%	0.33%
3	0.19%	0.13%	0.32%
4	0.50%	0.25%	0.74%
5	1.07%	0.77%	1.84%
6	1.96%	2.10%	4.06%
7	2.81%	2.42%	5.23%
8	2.96%	2.21%	5.16%
9	2.81%	2.24%	5.05%
10	3.12%	2.56%	5.67%
11	3.52%	3.01%	6.53%
12	3.91%	3.51%	7.41%
13	3.84%	3.59%	7.43%
14	3.61%	3.52%	7.13%
15	3.47%	3.56%	7.03%
16	3.45%	3.63%	7.08%
17	3.33%	3.70%	7.04%
18	2.79%	3.06%	5.85%
19	2.28%	2.61%	4.90%
20	1.85%	2.14%	4.00%
21	1.36%	1.56%	2.92%
22	0.91%	1.00%	1.91%
23	0.55%	0.61%	1.16%

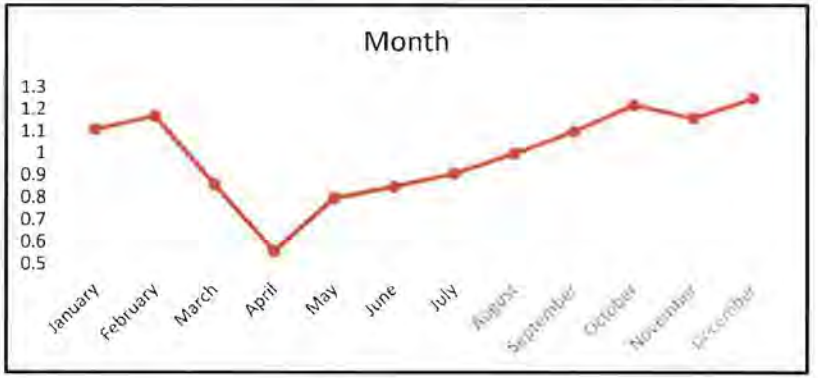
Month of Year	Fraction
January	1.11
February	1.17
March	0.86
April	0.56
May	0.8
June	0.85
July	0.91
August	1
September	1.1
October	1.22
November	1.16
December	1.25

Day of Week	Fraction
Sunday	0.7
Monday	1.03
Tuesday	1.09
Wednesday	1.08
Thursday	1.09
Friday	1.13
Saturday	0.87

Directional Factor		
AM	0.53	EB
PM	0.52	WB

Design Hour Volume		
#	Volume	Factor
5	2339	0.116
10	2288	0.113
20	2253	0.112
30	2203	0.109
50	2137	0.106
100	2041	0.101
150	1992	0.099
200	1955	0.097





PCS 48- Daniels Pkwy east of Chamberlin Pkwy

2020 AADT = 40,600 VPD

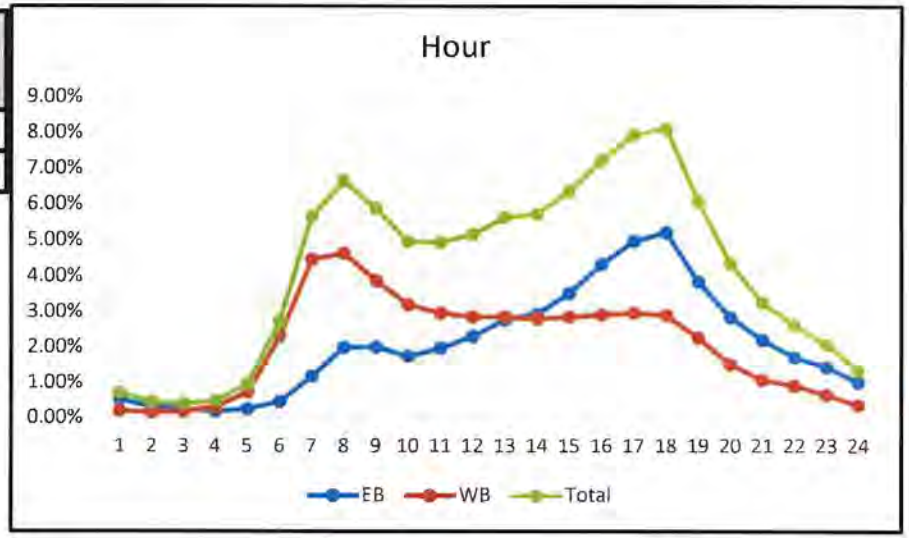
Hour	EB	WB	Total
0	0.51%	0.21%	0.72%
1	0.31%	0.16%	0.46%
2	0.23%	0.18%	0.40%
3	0.18%	0.31%	0.49%
4	0.25%	0.73%	0.97%
5	0.45%	2.30%	2.75%
6	1.18%	4.48%	5.67%
7	2.00%	4.65%	6.65%
8	2.01%	3.88%	5.89%
9	1.75%	3.21%	4.97%
10	1.98%	2.97%	4.95%
11	2.31%	2.86%	5.17%
12	2.77%	2.87%	5.64%
13	2.94%	2.81%	5.74%
14	3.53%	2.86%	6.38%
15	4.34%	2.92%	7.25%
16	4.99%	2.98%	7.96%
17	5.23%	2.91%	8.13%
18	3.86%	2.27%	6.12%
19	2.85%	1.52%	4.36%
20	2.21%	1.07%	3.27%
21	1.72%	0.92%	2.63%
22	1.44%	0.65%	2.08%
23	1.01%	0.35%	1.35%

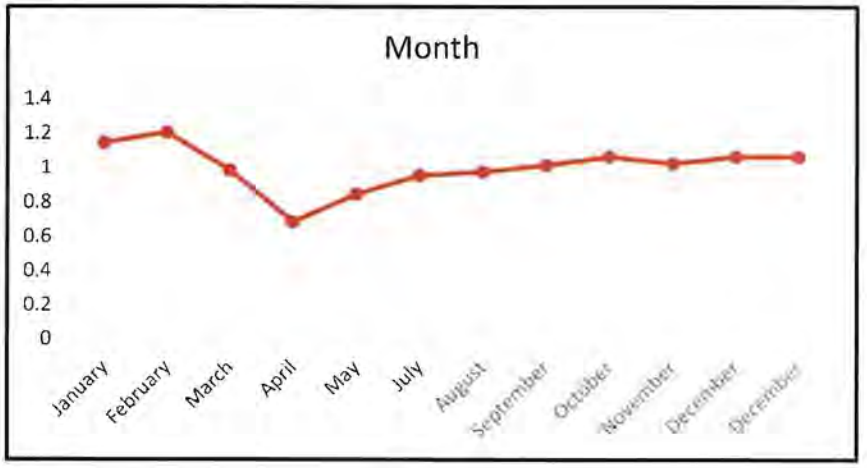
Month of Year	Fraction
January	1.15
February	1.21
March	0.99
April	0.69
May	0.85
July	0.96
August	0.98
September	1.02
October	1.07
November	1.03
December	1.07
December	1.07

Day of Week	Fraction
Sunday	0.65
Monday	1.04
Tuesday	1.11
Wednesday	1.1
Thursday	1.11
Friday	1.12
Saturday	0.85

Directional Factor		
AM	0.79	SB
PM	0.63	NB

Design Hour Volume		
#	Volume	Factor
5	48	0.001
10	4885	0.120
20	4730	0.117
30	4673	0.115
50	4516	0.111
100	4352	0.107
150	4198	0.103
200	4048	0.100





Updated 2/24/21		Daily Traffic Volume (AADT)										
STREET	LOCATION	Station #	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
DANIELS PKWY	E OF SIX MILE PKWY	31	53600	52200	53200	51800	53200	59700		60700	62500	54100
DANIELS PKWY	W OF I - 75	264	58400	60900	48700	51500	60600		52400			
DANIELS PKWY	E OF I - 75	52	48000	49500	44800	47100	44200		52600	51800	54500	48400
DANIELS PKWY	E OF CHAMBERLIN PKWY	48	35700		35800	38100	37300	41900	45600	41400	41900	40600
DANIELS PKWY	W OF GATEWAY BLVD	89					35800	34500		35700	39000	
DANIELS PKWY	S OF IMMOKALEE RD	524	24400	29800	20600	28200	29000	33400	32100			37400
DANLEY RD	W OF METRO PKWY	518				4900		6300		6700		4500
DEL PRADO BLVD	S OF BEACH PKWY	86									25500	25500
DEL PRADO BLVD	S OF CORNWALLIS PKWY	2	37400	36600	37100	37800	38300			40700	40700	36000
DEL PRADO BLVD	S OF FOUR MILE COVE RD	40	48300	45200	45800	46500	45600	46500	46400	45200	45100	40400
DEL PRADO BLVD	E OF US 41	443			4700	5400	6000	6600	7200	7800	7800	8800

Updated 2/24/21		Daily Traffic Volume (AADT)										
STREET	LOCATION	Sta-tion #	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
FOWLER ST	E OF US 41	511				20700		23300		22100		18800
FOWLER ST	S OF MORENO ST	28	19000	19400	21700	23000	24500	23700	24900	23900	27400	24800
FOWLER ST	S OF M.L.K. BLVD (SR 82)	119										14400
GASPARILLA BLVD	S OF CHARLOTTE CO. LINE	510				6500						
GATEWAY BLVD	S OF GRIFFIN	536									22460	
GLADIOLUS DR	E OF SAN CARLOS BLVD	284	10200		7600		13100		13100		11000	
GLADIOLUS DR	E OF PINE RIDGE	283										
GLADIOLUS DR	E OF A&W BULB RD	39	18600	19200	19800	20500	21900	22600	23000	22500	23200	19800
GLADIOLUS DR	W OF WINKLER RD	285										
GLADIOLUS DR	W OF US 41	46	37800	40800	37600	38900	40600	42000	42700	41500	43200	39000
GRIFFIN DR	S OF SR 82	534									8000	
GUNNERY RD	N OF IMMOKALEE RD	290	17300	20200	17600	18300	19100	21500	20400			26300
GUNNERY RD	N OF LEE BLVD (CR 884)	289	14700	15800	13600	13600	15100	14800	15500	15800	15700	16700
GUNNERY RD	S OF BUCKINGHAM RD						7800					
HANCOCK BRIDGE PKWY	W OF BEAU DR	17	20000	17900	18400	20600	21500	22000	22200	23700	22900	19700
HANCOCK BRIDGE PKWY	E OF ORANGE GROVE BLVD	116										15900
HANCOCK BRIDGE PKWY	W OF ORANGE GROVE BLVD	292	22500		20900	20900	20900	23800	21300	23800	23700	21400
HANCOCK BRIDGE PKWY	W OF NE 24 AVE	115										

Updated 2/24/21		Daily Traffic Volume (AADT)										
STREET	LOCATION	Sta-tion #	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
IMPERIAL PKWY	N OF STRIKE LN	63	8300	9300	9900	11000	13200	13000	14200	14800	15000	11700
IMPERIAL PKWY	N OF BONITA BEACH RD	529										
IMPERIAL PKWY	S OF BONITA BEACH RD	492							22200		20200	
IONA RD	W OF McGREGOR BLVD	303	7400		6800		7100		7200		7000	
JOEL BLVD (CR 884)	E OF BELL BLVD	306	12500	14100	12700	13400	14100	14500	14100	13600	14800	13900
JOEL BLVD (CR 884)	N OF E 10TH ST	69						8900	9000	9400	9500	9100
JOEL BLVD (CR 884)	S OF PALM BEACH BLVD	305	7300	8100	7400	7600	8200	8800	9200	9200	11000	10900
JOHN MORRIS RD	S OF SUMMERLIN RD	497										
JOHN MORRIS RD	N OF SUMMERLIN RD	498	3600		3600		4500		4700		4800	
KELLY RD	W OF SAN CARLOS BLVD	308	3400		4300		5300		4500		4900	
DR. M. L. KING BLVD (SR 82)	E OF CRANFORD AVE	84					28500	26800	27600	28300	29100	27000
DR. M. L. KING BLVD (SR 82)	W OF I - 75	20			32100	35100	38600	41100	42200	43600	44400	40700
DR. M. L. KING BLVD (SR 82)	E OF I-75	68			29200	32200	35100	37800	39400	40300	41200	38600
LAUREL DR	E OF BUSINESS 41	309	5900		5500		5900		6500			
LEE BLVD(CR 884)	E OF IMMOKALEE RD	310			38100	42800		49500		44800		
LEE BLVD(CR 884)	W OF GUNNERY RD	22	28600	33800	31000	33500	35300	37400	37900	41300	41000	36500
LEE BLVD(CR 884)	E OF SUNNILAND BLVD	302										
LEE BLVD(CR 884)	E OF SUNSHINE BLVD	312	32300		29500		33100		32600		43300	
LEE BLVD(CR 884)	N OF LEELAND HEIGHTS	311	10500	11800	10400	10900	12100	12600	12600	12800		19300
LEE RD	S OF ALICO RD	313					10400					

Updated 2/24/21		Daily Traffic Volume (AADT)										
STREET	LOCATION	Sta-tion #	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
A & W BULB RD	N OF GLADIOLUS DR	215	7700		6800		6600		7100		7700	
ALABAMA RD	N OF IMMOKALEE RD	201					6800		7100		6000	
ALABAMA RD	S OF HOMESTEAD RD	200	8800	11100	9000	9300	10300	11000		10200	10700	7900
ALICO RD	E OF US 41	204	21800	21700	23400	19900	21900	24100	22100	22800	24200	25600
ALICO RD	E OF LEE RD	207										
ALICO RD	W OF I - 75	10	25800	27200	29100	38400	41100	43600	44800	47900	49800	41900
ALICO RD	E OF I - 75	53	26200	26000	26900	28400	25600	24300	24600	26200	24200	20200
ALICO RD	E OF BEN HILL GRIFFIN PKWAY	205				7500		8500		8900		
BASS RD	N OF SUMMERLIN RD	216	8200		8400		8200		11500		11400	

TRAFFIC DATA FROM LEE COUNTY TRAFFIC COUNT DATABASE SYSTEM

LEE COUNTY

MS2
Traffic Count Database System
(TCDS)

Volume Count Report

LOCATION INFO	
Location ID	534_NB
Type	SPOT
Fnct'l Class	-
Located On	Griffin Dr
Loc On Alias	
SOUTH OF	SR â€“ 82
Direction	NB
County	Lee
Community	-
MPO ID	
HPMS ID	
Agency	Lee County

COUNT DATA INFO	
Count Status	Accepted
Start Date	Wed 2/3/2021
End Date	Thu 2/4/2021
Start Time	12:00:00 AM
End Time	12:00:00 AM
Direction	
Notes	lee
Station	000000000534
Study	
Speed Limit	
Description	
Sensor Type	Axle/Tube
Source	
Latitude,Longitude	

INTERVAL:15-MIN					
Time	15-min Interval 1st	2nd	3rd	4th	Hourly Count
0:00-1:00	2	2	1	1	6
1:00-2:00	1	2	0	1	4
2:00-3:00	0	0	1	2	3
3:00-4:00	0	1	1	0	2
4:00-5:00	6	5	7	6	24
5:00-6:00	17	11	18	32	78
6:00-7:00	38	62	62	98	260
7:00-8:00	91	125	129	86	431
8:00-9:00	69	113	81	59	322
9:00-10:00	35	15	46	36	132
10:00-11:00	29	32	25	30	116
11:00-12:00	34	37	27	31	129
12:00-13:00	41	47	29	44	161
13:00-14:00	27	41	34	43	145
14:00-15:00	40	59	76	80	255
15:00-16:00	61	57	56	38	212
16:00-17:00	46	46	51	52	195
17:00-18:00	39	58	70	97	264
18:00-19:00	67	53	58	46	224
19:00-20:00	43	43	28	22	136
20:00-21:00	22	23	23	25	93
21:00-22:00	19	20	10	16	65
22:00-23:00	9	12	9	5	35
23:00-24:00	6	4	2	2	14
Total					3,306
AM Peak					06:45-07:45 443
PM Peak					17:15-18:15 292

LEE COUNTY

MS2
Traffic Count Database System
(TCDS)

Volume Count Report

LOCATION INFO	
Location ID	534_SB
Type	SPOT
Fnct'l Class	-
Located On	Griffin Dr
Loc On Alias	
SOUTH OF	SR â€" 82
Direction	SB
County	Lee
Community	-
MPO ID	
HPMS ID	
Agency	Lee County

COUNT DATA INFO	
Count Status	Accepted
Start Date	Wed 2/3/2021
End Date	Thu 2/4/2021
Start Time	12:00:00 AM
End Time	12:00:00 AM
Direction	
Notes	lee
Station	000000000534
Study	
Speed Limit	
Description	
Sensor Type	Axle/Tube
Source	
Latitude,Longitude	

INTERVAL:15-MIN

Time	15-min Interval 1st	2nd	3rd	4th	Hourly Count
0:00-1:00	2	0	4	3	9
1:00-2:00	0	1	1	0	2
2:00-3:00	1	1	1	2	5
3:00-4:00	0	0	2	0	2
4:00-5:00	3	0	1	4	8
5:00-6:00	2	3	18	13	36
6:00-7:00	23	31	38	36	128
7:00-8:00	35	42	41	50	168
8:00-9:00	42	33	69	61	205
9:00-10:00	36	28	31	22	117
10:00-11:00	13	28	29	26	96
11:00-12:00	28	28	31	41	128
12:00-13:00	28	27	30	34	119
13:00-14:00	27	38	29	27	121
14:00-15:00	33	31	41	42	147
15:00-16:00	44	81	71	39	235
16:00-17:00	33	42	41	32	148
17:00-18:00	27	42	34	31	134
18:00-19:00	40	33	23	28	124
19:00-20:00	40	31	38	18	127
20:00-21:00	30	35	16	23	104
21:00-22:00	23	11	7	3	44
22:00-23:00	10	7	3	7	27
23:00-24:00	5	7	4	2	18
Total					2,252
AM Peak					08:00-09:00 205
PM Peak					14:45-15:45 238

LEE COUNTY PUBLIC FACILITIES
LEVEL OF SERVICE AND
CONCURRENCY REPORT

5/25/2020

LEE COUNTY Road Link Volumes (County- and State-Maintained Roadways)

LINK NO.	NAME	ROADWAY LINK FROM	TO	ROAD TYPE	PERFORMANCE STANDARD LOS	PERFORMANCE STANDARD CAPACITY	2019 100TH HIGHEST HOUR LOS	2019 100TH HIGHEST HOUR VOLUME	FORECAST FUTURE LOS	FORECAST FUTURE VOLUME	NOTES
07400	CYPRESS LAKE DR	McGREGOR BLVD	SOUTH POINT BLVD	4LD	E	1,940	D	1,170	D	1,230	
07500	CYPRESS LAKE DR	SOUTH POINT BLVD	WINKLER RD	4LD	E	1,940	D	1,472	D	1,547	
07600	CYPRESS LAKE DR	WINKLER RD	SUMMERLIN RD	4LD	E	1,940	D	1,472	D	1,547	
07700	CYPRESS LAKE DR	SUMMERLIN RD	US 41	6LD	E	2,940	D	2,198	D	2,310	
07800	DANIELS PKWY	US 41	METRO PKWY	6LD	E	2,680	D	2,341	D	2,461	
07900	DANIELS PKWY	METRO PKWY	SIX MILE PKWY	6LD	E	2,680	D	2,109	E	2,520	Constrained
08000	DANIELS PKWY	SIX MILE PKWY	PALOMINO LN	6LD	E	3,040		3,094		3,121	Constrained
08100	DANIELS PKWY	PALOMINO LN	I-75	6LD	E	3,040		3,094		3,142	Constrained
08200	DANIELS PKWY	I-75	TREELINE AVE	6LD	E	3,260	B	2,698	B	2,835	
08300	DANIELS PKWY	TREELINE AVE	CHAMBERLIN PKWY	6LD	E	3,260	B	2,698	B	2,835	
08400	DANIELS PKWY	CHAMBERLIN PKWY	GATEWAY BLVD	6LD	E	3,260	B	2,412	B	2,535	
08500	DANIELS PKWY	GATEWAY BLVD	SR 82	4LD	E	2,160	B	1,726	B	1,870	SKY Walk *
08600	DANLEY DR	US 41	METRO PKWY	2LN	E	860	C	378	C	409	
08700	DAVIS RD	McGREGOR BLVD	IONA RD	2LN	E	860	C	15	C	29	old count projection(2010)
08800	DEL PRADO BLVD	CAPE CORAL PKWY	SE 46TH ST	6LD	E	2,660	C	1,404	C	1,586	old count projection(2009)
08900	DEL PRADO BLVD	SE 46TH ST	CORONADO PKWY	6LD	E	2,660	C	1,404	C	1,586	old count projection(2009)
09000	DEL PRADO BLVD	CORONADO PKWY	CORNWALLIS PKWY	6LD	E	2,660	D	2,000	D	2,102	
09100	DEL PRADO BLVD	CORNWALLIS PKWY	CORAL POINT DR	6LD	E	2,660	D	2,520	D	2,649	*
09200	DEL PRADO BLVD	CORAL POINT DR	HANCOCK B. PKWY	6LD	E	2,800	C	2,111	D	2,218	
09300	DEL PRADO BLVD	HANCOCK B. PKWY	SR 78	6LD	E	2,800	C	1,613	C	1,695	*
09400	DEL PRADO BLVD	US 41	SLATER RD	2LN	E	860	C	386		892	Crane Landing
09700	EAST 21ST ST	JOEL BLVD	GRANT AVE	2LN	E	860	C	30	C	31	*
09800	ESTERO BLVD	BIG CARLOS PASS BRIDGE	PESCADORA AVE	2LN	E	726	A	339	A	356	Constrained*
09900	ESTERO BLVD	PESCADORA AVE	VOORHIS ST	2LN	E	726	C	629	D	662	Constrained*
10000	ESTERO BLVD	VOORHIS ST	TROPICAL SHORES WAY	2LN	E	726	C	629	D	662	Constrained*
10100	ESTERO BLVD	TROPICAL SHORES WAY	CENTER ST	2LN	E	671		716		809	Constrained, old count(2010)
14400	ESTERO PKWY	US 41	THREE OAKS PKWY	4LD	E	2,000	B	790	B	1,083	East & West Cypress View*
14450	ESTERO PKWY	THREE OAKS PKWY	BEN HILL GRIFFIN PKWY	4LD	E	2,000	B	876	B	921	*
10200	EVERGREEN RD	US 41	BUS 41	2LN	E	860	C	100	C	116	old count projection
10300	FIDDLESTICKS BLVD	GUARDHOUSE	DANIELS PKWY	2LN	E	860	C	346	C	379	
10400	FOWLER ST	US 41	N AIRPORT RD	6LD	E	2,300	D	1,258	D	1,322	
10500	FOWLER ST	N AIRPORT RD	COLONIAL BLVD	6LD	E	2,300	D	1,504	D	1,581	
10800	GASPARILLA BLVD	FIFTH ST	COUNTY LINE	2LN	E	860	C	241	C	269	Constrained*
	GATEWAY BLVD	DANIELS PKWY	GATEWAY LAKES BLVD	4LD	E	1,790	C	1,208	C	1,269	
	GATEWAY BLVD	GATEWAY LAKES BLVD	SR82	2LN	E	860	C	505	C	531	
10900	GLADIOLUS DR	McGREGOR BLVD	PINE RIDGE RD	4LD	E	1,840	C	470	C	494	
11000	GLADIOLUS DR	PINE RIDGE RD	BASS RD	4LD	E	1,840	C	1,230	C	1,365	
11100	GLADIOLUS DR	BASS RD	WINKLER RD	6LD	E	2,780	C	1,230	C	1,292	
11200	GLADIOLUS DR	WINKLER RD	SUMMERLIN RD	6LD	E	2,780	C	1,230	C	1,292	
11300	GLADIOLUS DR	SUMMERLIN RD	US 41	6LD	E	2,780	B	1,977	C	2,078	
11400	GREENBRIAR BLVD	RICHMOND AVE	JOEL BLVD	2LN	E	860	C	75	C	80	*
11500	GUNNERY RD	SR 82	LEE BLVD	4LD	E	1,920	B	965	B	1,014	*
11600	GUNNERY RD	LEE BLVD	BUCKINGHAM RD	2LN	E	1,020	C	773	C	908	
11700	HANCOCK BRIDGE PKWY	DEL PRADO BLVD	NE 24TH AVE	4LD	E	1,880	B	1,017	B	1,069	*
11800	HANCOCK BRIDGE PKWY	NE 24TH AVE	ORANGE GROVE BLVD	4LD	E	1,880	B	1,478	B	1,554	
11900	HANCOCK BRIDGE PKWY	ORANGE GROVE BLVD	MOODY RD	4LD	E	1,880	B	1,529	B	1,607	
12000	HANCOCK BRIDGE PKWY	MOODY RD	US 41	4LD	E	1,880	B	1,529	B	1,607	
12100	HART RD	SR 78	TUCKER LANE	2LN	E	860	C	357	C	375	*
12200	HICKORY BLVD	BONITA BEACH RD	McLAUGHLIN BLVD	2LN	E	890	E	533	E	560	Constrained*
12300	HICKORY BLVD	McLAUGHLIN BLVD	MELODY LANE	2LN	E	890	E	533	E	560	Constrained*
12400	HICKORY BLVD	MELODY LANE	ESTERO BLVD	2LN	E	890	E	533	E	560	Constrained*
12480	HOMESTEAD RD	SR 82	MILWAUKEE BLVD	2LN	E	1,010	D	649	E	820	*
12490	HOMESTEAD RD	MILWAUKEE BLVD	SUNRISE BLVD	2LN	E	1,010	D	649	E	682	*
12500	HOMESTEAD RD	SUNRISE BLVD	LEELAND HEIGHTS	4LN	E	2,960	C	649	C	682	4 lane under construction
12600	HOMESTEAD RD	LEELAND HEIGHTS	LEE BLVD	4LN	E	2,960	D	1,257	D	1,353	
31800	I-75	BONITA BEACH RD	CORKSCREW RD	6LF	D	5,620	E	5,811	E	5,967	
31900	I-75	CORKSCREW RD	ALICO RD	6LF	D	5,620	E	5,758	E	5,981	
32000	I-75	ALICO RD	DANIELS PKWY	6LF	D	6,620	D	5,730	D	6,139	
32100	I-75	DANIELS PKWY	COLONIAL BLVD	6LF	D	5,620	D	5,309	D	5,499	
32300	I-75	M.L.K.(SR 82)	LUCKETT RD	6LF	D	5,620	D	5,072	D	5,204	
32400	I-75	LUCKETT RD	SR 80	6LF	D	6,620	C	4,940	C	4,933	
32500	I-75	SR 80	SR 78	6LF	D	6,620	B	3,804	B	3,791	
32600	I-75	SR 78	COUNTY LINE	6LF	C	4,670	B	3,082	B	2,726	
12700	IDLEWILD ST	METRO PKWY	RANCHETTE RD	2LN	E	860	C	201	C	212	*
13000	IMMOKALEE RD (SR 82)	E OF COLONIAL BLVD	GATEWAY BLVD	6LD	D	3,171	C	1,737	C	1,971	
13100	IMMOKALEE RD (SR 82)	GATEWAY BLVD	GUNNERY RD	6LD	D	3,171	C	1,166	C	1,245	
13200	IMMOKALEE RD (SR 82)	GUNNERY RD	ALABAMA RD	6LD	D	4,860	B	1,635	B	1,747	
13300	IMMOKALEE RD (SR 82)	ALABAMA RD	BELL BLVD	4LD	D	3,240	B	612	B	658	
13400	IMMOKALEE RD (SR 82)	BELL BLVD	COUNTY LINE	4LD	D	3,240	B	617	B	648	

5/25/2020

LEE COUNTY Road Link Volumes (County- and State-Maintained Roadways)

LINK NO.	NAME	ROADWAY LINK FROM	TO	ROAD TYPE	PERFORMANCE STANDARD LOS	PERFORMANCE STANDARD CAPACITY	2019 100TH HIGHEST HOUR LOS	2019 100TH HIGHEST HOUR VOLUME	FORECAST FUTURE LOS	FORECAST FUTURE VOLUME	NOTES
21400	PINE ISLAND RD (SR 78)	CITY LIMITS E OF BARRETT RD	US 41	4LD	D	2,100	C	1,696	C	1,843	
21500	PINE ISLAND RD (SR 78)	US 41	BUS 41	4LD	D	2,100	C	1,690	C	1,750	
21600	PINE RIDGE RD	SAN CARLOS BLVD	SUMMERLIN RD	2LN	E	860	C	499	C	545	*
21700	PINE RIDGE RD	SUMMERLIN RD	GLADIOLUS DR	2LN	E	860	C	286	C	545	Heritage Isle*
21800	PINE RIDGE RD	GLADIOLUS DR	McGREGOR BLVD	2LN	E	860	C	286	C	301	
21900	PLANTATION RD	SIX MILE PKWY	DANIELS PKWY	2LN	E	860	C	288	C	417	Interned Park
22000	PLANTATION RD	DANIELS PKWY	IDLEWILD ST	2LN	E	860	D	672	D	706	FDOT Metro Pkwy 6-laning
22050	PLANTATION RD	IDLEWILD ST	COLONIAL BLVD	4LN	E	1,790	C	841	C	884	
22100	PONDELLA RD	SR 78	ORANGE GROVE BLVD	4LD	E	1,890	B	736	B	774	*
22200	PONDELLA RD	ORANGE GROVE BLVD	US 41	4LD	E	1,890	B	1,164	B	1,239	
22300	PONDELLA RD	US 41	BUS 41	4LD	E	1,890	B	953	B	1,002	
22400	PRITCHETT PKWY	SR 78	RICH RD	2LN	E	860	C	73	C	541	old count, Stoneybrook North(2009)
22500	RANCHETTE RD	PENZANCE BLVD	IDLEWILD ST	2LN	E	860	C	93	C	98	
22600	RICH RD	SLATER RD	PRITCHETT PKWY	2LN	E	860	C	55	C	62	old count projection(2009)
22700	RICHMOND AVE	LEELAND HEIGHTS	E 12TH ST	2LN	E	860	C	79	C	91	*
22800	RICHMOND AVE	E 12TH ST	GREENBRIAR BLVD	2LN	E	860	C	79	C	83	*
23000	SAN CARLOS BLVD (SR 865)	MANTANZAS PASS B.	MAIN ST	2LD	D	970		1,055		1,176	Constrained
23100	SAN CARLOS BLVD (SR 865)	MAIN ST	SUMMERLIN RD	4LD	D	2,100	C	1,055	C	1,176	PD&E Study
23180	SAN CARLOS BLVD (SR 865)	SUMMERLIN RD	KELLY RD	2LD	D	970	C	744	C	847	
23200	SAN CARLOS BLVD (SR 865)	KELLY RD	GLADIOLUS DR	4LD	D	2,100	C	744	C	847	
23230	SAN CARLOS BLVD	US 41	THREE OAKS PKWY	2LN	E	860	C	427	C	449	*
23260	SANIBEL BLVD	US 41	LEE RD	2LN	E	860	C	484	C	508	
23300	SANIBEL CAUSEWAY	SANIBEL SHORELINE	TOLL PLAZA	2LN	E	1,140	E	944	E	992	
23400	SHELL POINT BLVD	McGREGOR BLVD	PALM ACRES	2LN	E	860	C	290	C	304	*
23500	SIX MILE PKWY (SR 739)	US 41	METRO PKWY	4LD	D	2,100	C	1,778	C	1,950	
23600	SIX MILE CYPRESS	METRO PKWY	DANIELS PKWY	4LD	E	2,000	B	1,398	B	1,469	
23700	SIX MILE CYPRESS	DANIELS PKWY	WINKLER EXT.	4LD	E	1,900	B	1,149	B	1,352	
23800	SIX MILE CYPRESS	WINKLER EXT.	CHALLENGER BLVD	4LD	E	1,900	B	1,050	B	1,104	
23900	SIX MILE CYPRESS	CHALLENGER BLVD	COLONIAL BLVD	6LD	E	2,860	A	1,050	A	1,104	
24000	SLATER RD	SR 78	NALLE GRADE RD	2LN	E	1,010	C	402	C	423	*
24100	SOUTH POINTE BLVD	CYPRESS LAKE DR	COLLEGE PKWY	2LD	E	910	D	644	D	677	*
24200	SR 31 (ARCADIA RD)	SR 80	SR 78	2LN	D	970	C	643	C	610	PD&E/SEIR Study
24300	SR 31 (ARCADIA RD)	SR 78	COUNTY LINE	2LN	C	820	C	564	C	460	PD&E/SEIR Study
24400	STALEY RD	TICE	ORANGE RIVER BLVD	2LN	E	860	C	189	C	215	*
24500	STRINGFELLOW RD	1ST AVE	BERKSHIRE RD	2LN	E	1,060	B	315	D	672	Constrained
24600	STRINGFELLOW RD	BERKSHIRE RD	PINE ISLAND RD	2LN	E	1,060	B	315	C	448	Constrained
24700	STRINGFELLOW RD	PINE ISLAND RD	PINELAND RD	2LN	E	1,060	C	551	D	652	Constrained
24800	STRINGFELLOW RD	PINELAND RD	MAIN ST	2LN	E	1,060	C	551	D	648	
24900	SUMMERLIN RD	McGREGOR BLVD	KELLY COVE RD	4LD	E	1,980	A	1,243	A	1,306	
25000	SUMMERLIN RD	KELLY COVE RD	SAN CARLOS BLVD	4LD	E	1,980	A	1,243	A	1,306	
25100	SUMMERLIN RD	SAN CARLOS BLVD	PINE RIDGE RD	6LD	E	3,000	A	1,919	A	2,149	
25200	SUMMERLIN RD	PINE RIDGE RD	BASS RD	6LD	E	3,000	A	1,919	A	2,016	
25300	SUMMERLIN RD	BASS RD	GLADIOLUS DR	6LD	E	3,000	A	1,919	A	2,016	
25400	SUMMERLIN RD	GLADIOLUS DR	CYPRESS LAKE DR	4LD	E	1,900	C	1,454	C	1,552	
25500	SUMMERLIN RD	CYPRESS LAKE DR	COLLEGE PKWY	6LD	E	2,880	B	1,783	B	1,874	
25600	SUMMERLIN RD	COLLEGE PKWY	PARK MEADOW DR	6LD	E	2,880	B	1,916	B	2,014	
25700	SUMMERLIN RD	PARK MEADOW DR	BOY SCOUT	6LD	E	2,880	B	1,916	B	2,014	
25800	SUMMERLIN RD	BOY SCOUT	MATHEWS DR	4LD	E	1,820	D	1,260	D	1,324	
25900	SUMMERLIN RD	MATHEWS DR	COLONIAL BLVD	4LD	E	1,820	D	1,260	D	1,324	
26000	SUNRISE BLVD	BELL BLVD	COLUMBUS BLVD	2LN	E	860	C	42	C	53	
26100	SUNSHINE BLVD	SR 82	23RD ST SW	2LN	E	1,010	C	369	C	388	*
26150	SUNSHINE BLVD	23RD ST SW	LEE BLVD	2LN	E	1,010	C	369	C	388	*
26200	SUNSHINE BLVD	LEE BLVD	W 12TH ST	2LN	E	1,010	D	596	D	626	*
26300	SUNSHINE BLVD	W 12TH ST	W 75TH ST	2LN	E	860	D	623	D	655	
26400	SW 23RD ST	GUNNERY RD	SUNSHINE BLVD	2LN	E	860	D	650	D	683	
26500	THREE OAKS PKWY	COCONUT RD	ESTERO PKWY	4LD	E	1,940	B	1,230	B	1,413	
26600	THREE OAKS PKWY	ESTERO PKWY	SAN CARLOS BLVD	4LD	E	1,940	A	623	B	724	
26700	THREE OAKS PKWY	SAN CARLOS BLVD	ALICO RD	4LD	E	1,940	A	633	B	976	
26800	TICE ST	SR 80	ORTIZ AVE	2LN	E	860	C	163	C	171	old count(2010)
26900	TICE ST	ORTIZ AVE	STALEY RD	2LN	E	860	C	203	D	716	Elementry U.
27000	TREELINE AVE	TERMIMAL ACCESS RD	DANIELS PKWY	4LD	E	1,980	A	1,272	A	1,510	Harley Davidson
27030	TREELINE AVE	DANIELS PKWY	AMBERWOOD RD	4LD	E	1,980	A	880	A	924	
27070	TREELINE AVE	AMBERWOOD RD	COLONIAL BLVD	4LD	E	1,980	A	880	A	924	
29800	US 41 (S TAMIAMI TR)	OLD 41	CORKSCREW RD	6LD	D	3,171	C	2,662	C	2,712	
29900	US 41 (S TAMIAMI TR)	CORKSCREW RD	SANIBEL BLVD	6LD	D	3,171	C	2,422	C	2,485	
30000	US 41 (S TAMIAMI TR)	SANIBEL BLVD	ALICO RD	6LD	D	3,171	C	2,623	C	2,686	
30100	US 41 (S TAMIAMI TR)	ALICO RD	ISLAND PARK RD	6LD	D	3,171	C	2,623	C	2,730	
30200	US 41 (S TAMIAMI TR)	ISLAND PARK RD	BRIARCLIFF RD	6LD	D	3,171	C	2,905	D	3,092	

5/25/2020

LEE COUNTY Road Link Volumes (County- and State-Maintained Roadways)

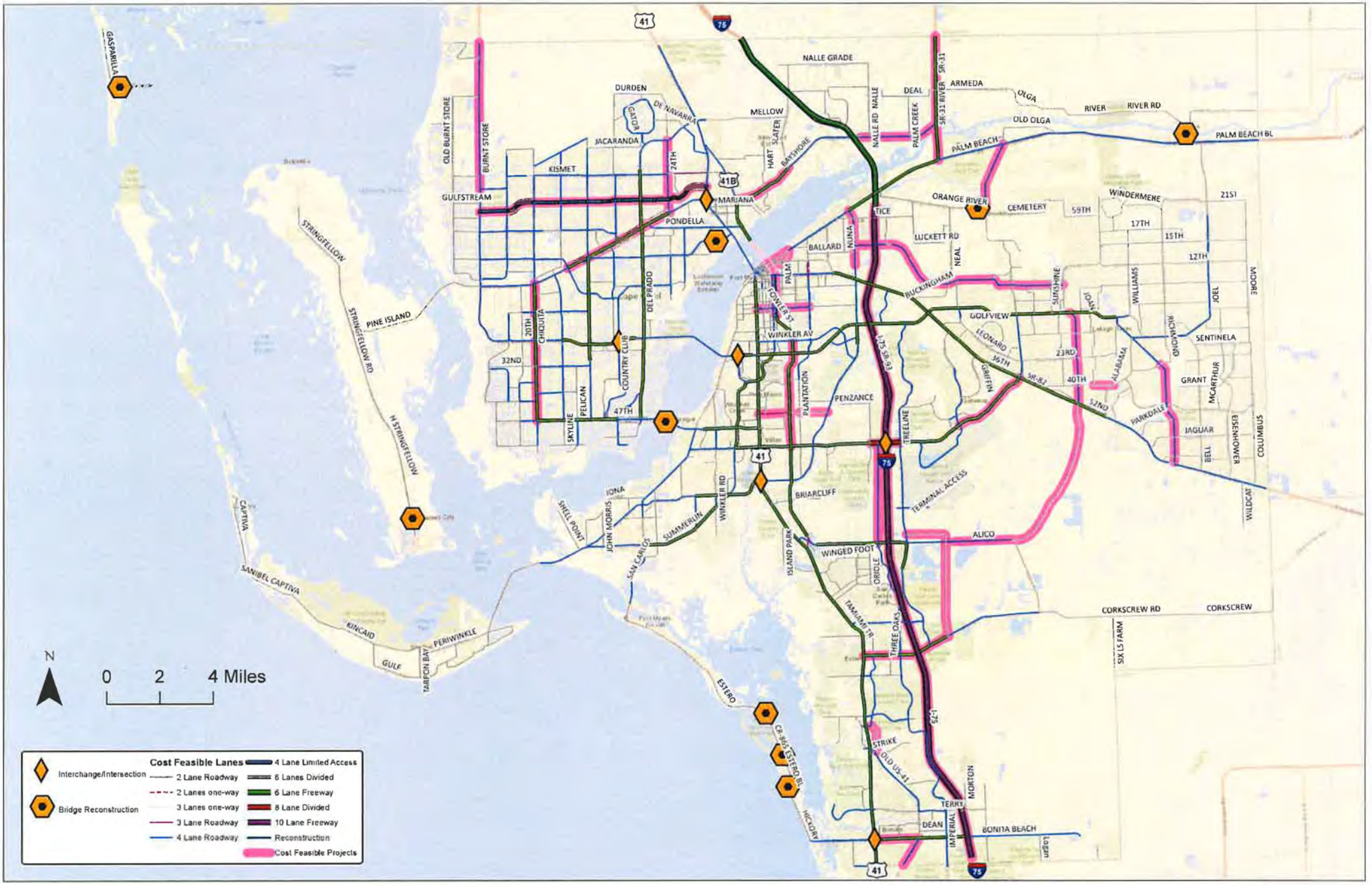
LINK NO.	NAME	ROADWAY LINK FROM	TO	ROAD TYPE	PERFORMANCE STANDARD LOS	PERFORMANCE STANDARD CAPACITY	2019 100TH HIGHEST HOUR LOS	2019 100TH HIGHEST HOUR VOLUME	FORECAST FUTURE LOS	FORECAST FUTURE VOLUME	NOTES
13500	IMPERIAL PKWY	COUNTY LINE	BONITA BEACH RD	4LD	E	1,920	B	1,017	B	1,069	*
13550	IMPERIAL PKWY	E TERRY ST	COCONUT RD	4LD	E	1,920	B	1,015	B	1,067	
13600	IONA RD	DAVIS RD	McGREGOR BLVD	2LN	E	860	C	381	C	460	
13700	ISLAND PARK RD	PARK RD	US 41	2LN	E	860	C	79	C	251	
13800	JOEL BLVD	BELL BLVD	18TH ST	4LN	E	2,120	B	660	B	876	Joel Blvd CPD
13900	JOEL BLVD	18TH ST	SR 80	2LN	E	1,010	D	495	D	520	
14000	JOHN MORRIS RD	BUNCHE BEACH	SUMMERLIN RD	2LN	E	860	C	62	C	72	old count projection
14100	JOHN MORRIS RD	SUMMERLIN RD	IONA RD	2LN	E	860	C	256	C	267	
14200	KELLY RD	McGREGOR BLVD	SAN CARLOS BLVD	2LN	E	860	C	277	C	291	
14300	KELLY RD	SAN CARLOS BLVD	PINE RIDGE RD	2LN	E	860	C	106	C	120	old count projection(2010)
14500	LAUREL DR	BUS 41	BREEZE DR	2LN	E	860	C	324	C	340	*
14600	LEE BLVD	SR 82	ALVIN AVE	6LD	E	2,840	B	2,202	B	2,318	
14700	LEE BLVD	ALVIN AVE	GUNNERY RD	6LD	E	2,840	B	2,161	B	2,340	
14800	LEE BLVD	GUNNERY RD	HOMESTEAD RD	6LD	E	2,840	B	2,131	B	2,240	
14900	LEE BLVD	HOMESTEAD RD	WILLIAMS AVE	4LD	E	1,980	B	630	B	662	
14930	LEE BLVD	WILLIAMS AVE	LEELAND HEIGHTS	2LN	E	1,020	B	630	B	665	
15000	LEE RD	SAN CARLOS BLVD	ALICO RD	2LN	E	860	C	544	D	614	old count projection(2015)
15100	LEELAND HEIGHTS	HOMESTEAD RD	JOEL BLVD	4LN	E	1,800	B	832	B	867	*
15200	LEONARD BLVD	GUNNERY RD	WESTGATE BLVD	2LN	E	860	D	650	D	706	
15300	LITTLETON RD	CORBETT RD	US 41	2LN	E	860	C	470	C	494	
15400	LITTLETON RD	US 41	BUS 41	2LN	E	860	C	417	C	439	*
15500	LUCKETT RD	ORTIZ AVE	I-75	2LN	E	880	B	326	B	401	4 Ln design & ROW
15600	LUCKETT RD	I-75	COUNTRY LAKES DR	2LN	E	860	C	273	C	287	
15700	MAPLE DR*	SUMMERLIN RD	2ND AVE	2LN	E	860	C	77	C	89	old count projection
15800	McGREGOR BLVD	SANIBEL T PLAZA	HARBOR DR	4LD	E	1,960	B	1,153	B	1,212	
15900	McGREGOR BLVD	HARBOR DR	SUMMERLIN RD	4LD	E	1,960	B	1,114	B	1,170	
16000	McGREGOR BLVD	SUMMERLIN RD	KELLY RD	4LD	E	1,960	A	964	B	1,022	
16100	McGREGOR BLVD	KELLY RD	GLADIOLUS DR	4LD	E	1,960	A	964	A	1,013	
16200	McGREGOR BLVD (SR 867)	OLD McGREGOR BLVD/GI	IONA LOOP RD	4LD	D	2,100	C	1,594	C	1,731	
16300	McGREGOR BLVD (SR 867)	IONA LOOP RD	PINE RIDGE RD	4LD	D	2,100	C	1,594	C	1,731	
16400	McGREGOR BLVD (SR 867)	PINE RIDGE RD	CYPRESS LAKE DR	4LD	D	2,100	C	1,832	D	2,082	
16500	McGREGOR BLVD (SR 867)	CYPRESS LAKE DR	COLLEGE PKWY	4LD	D	2,100	C	1,832	D	2,082	
16600	McGREGOR BLVD (SR 867)	COLLEGE PKWY	WINKLER RD	2LN	D	924	C	792	C	861	Constrained
16700	McGREGOR BLVD (SR 867)	WINKLER RD	TANGLEWOOD BLVD	2LN	D	970		1,187		1,260	Constrained
16800	McGREGOR BLVD (SR 867)	TANGLEWOOD BLVD	COLONIAL BLVD	2LN	D	970		1,187		1,260	Constrained
16900	METRO PKWY (SR 739)	SIX MILE PKWY	DANIELS PKWY	6LD	D	3,171	C	1,123	C	1,391	
17000	METRO PKWY (SR 739)	DANIELS PKWY	CRYSTAL DR	4LD	D	2,100	C	1,193	C	1,441	
17100	METRO PKWY (SR 739)	CRYSTAL DR	DANLEY DR	4LD	D	2,100	C	1,544	C	1,764	
17200	METRO PKWY (SR 739)	DANLEY DR	COLONIAL BLVD	4LD	D	2,100	C	1,615	C	1,845	
	MICHAEL RIPPE PKWY	US41	SIX MILES PKWY	6LD	D	3,171	C	1,381	C	1,945	
17600	MILWAUKEE BLVD	ALABAMA BLVD	BELL BLVD	2LN	E	860	C	171	C	180	
17700	MILWAUKEE BLVD	BELL BLVD	COLUMBUS BLVD	2LN	E	860	C	171	C	183	
17800	MOODY RD	HANCOCK B. PKWY	PONDELLA RD	2LN	E	860	C	182	C	206	old count projection(2009)
17900	NALLE GRADE RD	SLATER RD	NALLE RD	2LN	E	860	C	68	C	71	
18000	NALLE RD	SR 78	NALLE GRADE RD	2LN	E	860	C	114	C	134	
18100	NEAL RD	ORANGE RIVER BLVD	BUCKINGHAM RD	2LN	E	860	C	120	C	126	
18200	NO RIVER RD	SR 31	FRANKLIN LOCK RD	2LN	E	1,140	A	156	B	275	
18300	NO RIVER RD	FRANKLIN LOCK RD	BROADWAY RD	2LN	E	1,140	A	156	B	301	
18400	NO RIVER RD	BROADWAY RD	COUNTY LINE	2LN	E	1,140	A	108	A	141	
18900	OLGA RD*	SR 80 W	SR 80 E	2LN	E	860	C	82	C	95	old count projection
19100	ORANGE GROVE BLVD	CLUB ENTR.	HANCOCK B. PKWY	2LN	E	860	C	393	C	488	old count(2009)
19200	ORANGE GROVE BLVD	HANCOCK B. PKWY	PONDELLA RD	4LN	E	1,790	C	590	C	620	
19300	ORANGE RIVER BLVD	SR 80	STALEY RD	2LN	E	1,000	C	427	C	449	
19400	ORANGE RIVER BLVD	STALEY RD	BUCKINGHAM RD	2LN	E	1,000	C	427	C	461	
19500	ORIOLE RD	SAN CARLOS BLVD	ALICO RD	2LN	E	860	C	130	C	136	
19600	ORTIZ AVE	COLONIAL BLVD	SR 82	2LN	E	900	B	764	C	803	
19700	ORTIZ AVE	SR 82	LUCKETT RD	2LN	E	900	B	749	C	788	4 Ln design & ROW
19800	ORTIZ AVE	LUCKETT RD	SR 80	2LN	E	900	B	382	B	402	4 Ln design & ROW
19900	PALM BEACH BLVD (SR 80)	PROSPECT AVE	ORTIZ AVE	4LD	D	2,100	C	1,175	C	1,310	
20000	PALM BEACH BLVD (SR 80)	ORTIZ AVE	I-75	6LD	D	3,171	C	1,199	C	1,310	
20100	PALM BEACH BLVD (SR 80)	I-75	SR 31	6LD	D	3,171	C	1,701	C	2,056	
20200	PALM BEACH BLVD (SR 80)	SR 31	BUCKINGHAM RD	4LD	D	2,100	C	1,774	C	1,824	
20300	PALM BEACH BLVD (SR 80)	BUCKINGHAM RD	WERNER DR	4LD	D	3,280	B	1,361	B	1,421	
20330	PALM BEACH BLVD (SR 80)	WERNER DR	JOEL BLVD	4LD	C	1,607	C	1,180	C	1,254	
20400	PALM BEACH BLVD (SR 80)	JOEL BLVD	HENDRY CO. LINE	4LD	C	2,210	B	954	B	1,006	
20500	PALOMINO LN	DANIELS PKWY	PENZANCE BLVD	2LN	E	860	C	395	C	418	
20600	PARK MEADOWS DR	SUMMERLIN RD	US 41	2LN	E	860	C	197	C	207	
20800	PENZANCE BLVD	RANCHETTE RD	SIX MILE PKWY	2LN	E	860	C	173	C	185	
20900	PINE ISLAND RD	STRINGFELLOW RD	BURNT STORE RD	2LN	E	950	E	607	E	657	Constrained

5/25/2020

LEE COUNTY Road Link Volumes (County- and State-Maintained Roadways)

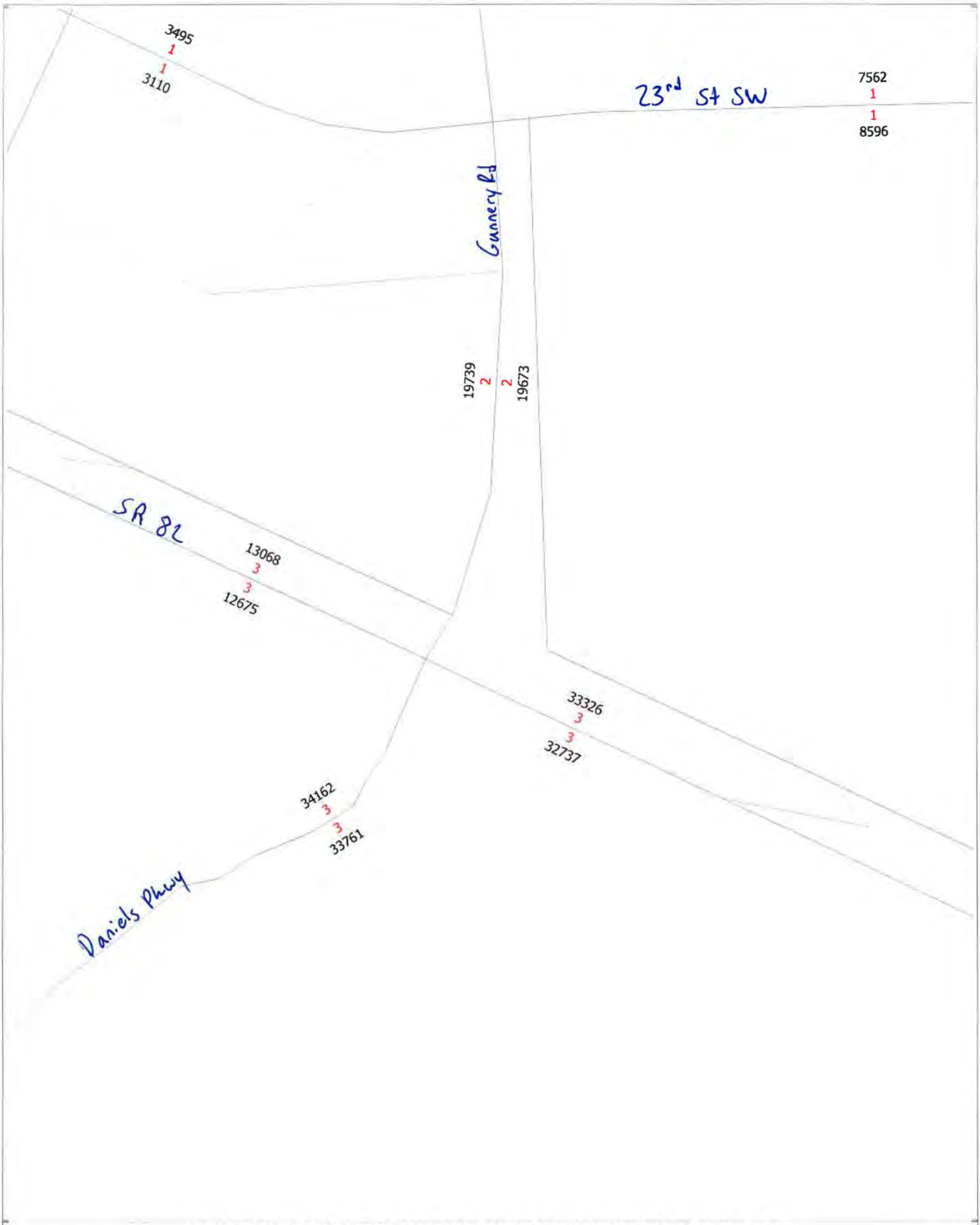
LINK NO.	NAME	ROADWAY LINK FROM	TO	ROAD TYPE	PERFORMANCE STANDARD LOS	PERFORMANCE STANDARD CAPACITY	2019 100TH HIGHEST HOUR LOS	2019 100TH HIGHEST HOUR VOLUME	FORECAST FUTURE LOS	FORECAST FUTURE VOLUME	NOTES
00100	A & W BULB RD	GLADIOLUS DR	McGREGOR BLVD	2LN	E	860	C	380	C	399	
00200	ALABAMA RD	SR 82	MILWAUKEE BLVD	2LN	E	990	C	270	C	284	
00300	ALABAMA RD	MILWAUKEE BLVD	HOMESTEAD RD	2LN	E	990	D	481	D	506	
00400	ALEXANDER BELL	SR 82	MILWAUKEE BLVD	2LN	E	990	D	553	D	581	
00500	ALEXANDER BELL	MILWAUKEE BLVD	LEELAND HEIGHTS	2LN	E	990	D	553	D	626	Shadow Lakes
00590	ALICO RD	US 41	DUSTY RD	4LD	E	1,980	B	1,107	B	1,163	
00600	ALICO RD	DUSTY RD	LEE RD	6LD	E	2,960	B	1,107	B	1,468	Alico Business Park
00700	ALICO RD	LEE RD	THREE OAKS PKWY	6LD	E	2,960	B	1,107	B	1,355	Three Oaks Regional Center
00800	ALICO RD	THREE OAKS PKWY	I-75	6LD	E	2,960	B	2,438	B	2,563	EEPCO Study
00900	ALICO RD	I-75	BEN HILL GRIFFIN BLVD	6LD	E	2,960	B	1,246	B	1,393	EEPCO Study
01000	ALICO RD	BEN HILL GRIFFIN BLVD	GREEN MEADOW DR	2LN	E	1,100/1,840	C	385	E	789	4 Ln constr 2018, EEPCO Study*
01050	ALICO RD	GREEN MEADOW DR	CORKSCREW RD	2LN	E	1,100	B	131	B	224	EEPCO Study
01200	BABCOCK RD	US 41	ROCKEFELLER CIR	2LN	E	860	C	55	C	162	old count
01400	BARRETT RD	PONDELLA RD	PINE ISLAND RD	2LN	E	860	C	103	C	116	old count projection(2009)
01500	BASS RD	SUMMERLIN RD	GLADIOLUS DR	4LN	E	1,790	C	612	C	870	
01600	BAYSHORE RD (SR 78)	BUS 41	NEW POST RD/HART RD	4LD	D	2,100	C	1,690	C	1,750	
01700	BAYSHORE RD (SR 78)	HART RD	SLATER RD	4LD	D	2,100	C	1,703	C	1,831	
01800	BAYSHORE RD (SR 78)	SLATER RD	I-75	4LD	D	2,100	C	1,285	C	1,683	
01900	BAYSHORE RD (SR 78)	I-75	NALLE RD	2LN	D	924	C	710	C	678	
02000	BAYSHORE RD (SR 78)	NALLE RD	SR 31	2LN	D	924	C	515	C	520	
02100	BEN HILL GRIFFIN PKWY	CORKSCREW RD	FGCU ENTRANCE	4LD	E	2,000	B	1,402	B	1,474	
02200	BEN HILL GRIFFIN PKWY	FGCU BOULEVARD S	COLLEGE CLUB DR	4LD	E	2,000	B	1,402	B	1,505	
02250	BEN HILL GRIFFIN PKWY	COLLEGE CLUB DR	ALICO RD	6LD	E	3,000	B	1,127	B	1,219	
26950	BEN HILL GRIFFIN PKWY	ALICO RD	TERMINAL ACCESS RD	4LD	E	1,980	A	1,017	A	1,069	
02300	BETH STACEY BLVD	23RD ST	HOMESTEAD RD	2LN	E	860	C	346	C	548	
02400	BONITA BEACH RD	HICKORY BLVD	VANDERBILT DR	4LD	E	1,900	C	581	C	611	Constrained In City Plan *
02500	BONITA BEACH RD	VANDERBILT DR	US 41	4LD	E	1,900	C	1,530	C	1,608	Constrained In City Plan
02600	BONITA BEACH RD	US 41	OLD 41	4LD	E	1,860	C	1,167	C	1,318	Constrained, old count projection(2010)
02700	BONITA BEACH RD	OLD 41	IMPERIAL ST	6LD	E	2,800	C	1,864	C	1,959	Constrained In City Plan(2010)
02800	BONITA BEACH RD	IMPERIAL ST	W OF I-75	6LD	E	2,800	C	2,132	C	2,241	Constrained In City Plan
02900	BONITA BEACH RD	E OF I-75	BONITA GRAND DR	4LD	E	2,020	B	671	B	705	Constrained In City Plan
02950	BONITA BEACH RD	BONITA GRANDE DR	END OF CO. MAINTAINED	4LD	E	2,020	B	671	B	705	Constrained In City Plan
03100	BONITA GRANDE DR	BONITA BEACH RD	E TERRY ST	2LN	E	860	D	692	E	782	old count projection(2009)
03200	BOYSCOUT RD	SUMMERLIN RD	US 41	6LN	E	2,520	E	1,776	E	1,866	
03300	BRANTLEY RD	SUMMERLIN RD	US 41	2LN	E	860	C	276	C	290	
03400	BRIARCLIFF RD	US 41	TRIPLE CROWN CT	2LN	E	860	C	197	C	218	
03500	BROADWAY RD (ALVA)	SR 80	N. RIVER RD	2LN	E	860	C	269	C	304	old count projection(2009)
03700	BUCKINGHAM RD	SR 82	GUNNERY RD	2LN	E	990	C	405	C	426	
03730	BUCKINGHAM RD	GUNNERY RD	ORANGE RIVER BLVD	2LN	E	990	C	423	D	445	
03800	BUCKINGHAM RD	ORANGE RIVER BLVD	SR 80	2LN	E	990	D	538		1,207	Buckingham 345 & Portico
03900	BURNT STORE RD	SR 78	VAN BUREN PKWY	4LD	E	2,950	B	942	B	990	
04000	BURNT STORE RD	VAN BUREN PKWY	COUNTY LINE	2LN	E	1,140	C	465	C	563	
04200	BUS 41 (N TAMIAMI TR, SR 7	CITY LIMITS (N END EDIS	PONDELLA RD	6LD	D	3,171	C	1,471	C	1,673	
04300	BUS 41 (N TAMIAMI TR, SR 7	PONDELLA RD	SR 78	6LD	D	3,171	C	1,471	C	1,673	
04400	BUS 41 (N TAMIAMI TR, SR 7	SR 78	LITTLETON RD	4LD	D	2,100	C	959	C	1,003	
04500	BUS 41 (N TAMIAMI TR, SR 7	LITTLETON RD	US 41	4LD	D	2,100	C	552	C	575	
04600	CAPE CORAL BRIDGE	DEL PRADO BLVD	McGREGOR BLVD	4LB	E	4,000	D	3,074	D	3,231	
04700	CAPTIVA DR	BLIND PASS	SOUTH SEAS	2LN	E	860	C	267	C	302	Constrained, old count(2010)
04800	CEMETERY RD	BUCKINGHAM RD	HIGGINS AVE	2LN	E	860	C	242	C	255	
04900	CHAMBERLIN PKWY	AIRPORT ENT	DANIELS PKWY	4LN	E	1,790	C	103	C	150	Port Authority maintained
05000	COCONUT RD	WEST END	VIA VENETTO BLVD	2LN	E	860	C	268	C	420	Estero maintains to east
05100	COLLEGE PKWY	McGREGOR BLVD	WINKLER RD	6LD	E	2,980	D	2,292	D	2,409	
05200	COLLEGE PKWY	WINKLER RD	WHISKEY CREEK DR	6LD	E	2,980	D	2,059	D	2,164	
05300	COLLEGE PKWY	WHISKEY CREEK DR	SUMMERLIN RD	6LD	E	2,980	D	2,059	D	2,164	
05400	COLLEGE PKWY	SUMMERLIN RD	US 41	6LD	E	2,980	D	1,825	D	1,918	
05500	COLONIAL BLVD	McGREGOR BLVD	SUMMERLIN RD	6LD	E	2,840		3,049		3,204	
05600	COLONIAL BLVD	SUMMERLIN RD	US 41	6LD	E	2,840		2,882		3,028	
06200	COLONIAL BLVD	DYNASTY DR	SR 82	6LD	D	3,040	B	2,117	C	2,225	*
06300	COLUMBUS BLVD	SR 82	MILWAUKEE BLVD	2LN	E	860	C	100	C	105	
06400	CONSTITUTION BLVD	US 41	CONSTITUTION CIR	2LN	E	860	C	217	C	245	old count projection(2010)
06500	CORBETT RD	SR 78 (PINE ISLAND RD)	LITTLETON RD	2LN	E	860	C	22	C	226	old count, added VA clinic(2009)
06600	CORKSCREW RD	US 41	THREE OAKS PKWY	4LD	E	1,900	C	1,007	C	1,272	Galleria at Corkscrew
06700	CORKSCREW RD	THREE OAKS PKWY	W OF I-75	4LD	E	1,900		2,129		2,386	Estero Crossing
06800	CORKSCREW RD	E OF I-75	BEN HILL GRIFFIN BLVD	4LD	E	1,900	C	1,194	C	1,255	
06900	CORKSCREW RD	BEN HILL GRIFFIN BLVD	ALICO RD	4LD	E	1,960	C	466	C	678	
07000	CORKSCREW RD	ALICO RD	COUNTY LINE	2LN	E	1,140	C	466	D	793	EEPCO Study, The Place
07100	COUNTRY LAKES BLVD	LUCKETT RD	TICE ST	2LN	E	860	C	143	C	293	old count projection(2010)
07200	CRYSTAL DR	US 41	METRO PKWY	2LN	E	860	C	496	C	521	
07300	CRYSTAL DR	METRO PKWY	PLANTATION RD	2LN	E	860	C	324	C	340	

LEE COUNTY MPO 2045 COST FEASIBLE HIGHWAY PLAN



N
0 2 4 Miles
Interchange/Intersection
Bridge Reconstruction
Cost Feasible Lanes
2 Lane Roadway
2 Lanes one-way
3 Lanes one-way
3 Lane Roadway
4 Lane Roadway
4 Lane Limited Access
6 Lanes Divided
6 Lane Freeway
8 Lane Divided
10 Lane Freeway
Reconstruction
Cost Feasible Projects
GASPARILLA
OLD BURNT STORE
BURNT STORE
GULFSTREAM
KISMET
JACARANDA
DURDEN
DE NAVARRA
GATOR
24TH
MARIANA
PONDELLA
MELLOW
HART
SLATER
BAYSHORE
NALLE GRADE
NALLE RD
NALLE
DEAL
PALM CREEK
SR-31 RIVER
SR-31
ARMEDA
OLGA
RIVER
RIVER RD
OLD OLGA
PALM BEACH
PALM BEACH BL
ORANGE RIVER
CEMETERY
59TH
WINDERMERE
21ST
17TH
15TH
12TH
LUCKETT RD
NEAL
BALLARD
NUNA
PALM
FOWLER ST
BUCKINGHAM
SUNSHINE
IOAN
WILLIAMS
JOEL
MOORE
GOLFVIEW
LEONARD
36TH
23RD
40TH
52ND
SR-82
GRIFFIN
ALABAMA
RICHMOND
SENTINELA
GRANT
MCARTHUR
PARKDALE
JAGUAR
BELL
EISENHOWER
COLUMBUS
WILDCAT
WINKLER AV
PLANTATION
PENZANCE
TREELINE
I-75 SR-93
TERMINAL ACCESS
ALICO
BRIARCLIFF
WINGED FOOT
ORIOLE
TAMIAMI TR
THREE OAKS
I-75
CORKSCREW RD
CORKSCREW
SIX LS FARM
STRIKE
OLD US-41
TERRY
MORTON
DEAN
IMPERIAL
BONITA BEACH
Logan
HICKORY
ESTERO
CR-865
ESTERO BL
ESTERO
WINKLER RD
SUMMERLIN
SAN CARLOS
JOHN MORRIS
IONA
SHELL POINT
ISLAND PARK
CAPTIVA
SANIBEL CAPTIVA
KINCAID
GULF
PERIWINKLE
TARPON BAY
STRINGFELLOW
PINE ISLAND
STRINGFELLOW RD
H STRINGFELLOW
20TH
CHIQUITA
32ND
PELICAN
SKYLINE
47TH
COUNTRY CLUB
DEL PRADO
41
41B
75

2045 E+C NETWORK VOLUMES



2045 LRTP COST FEASIBLE ROADWAY NETWORK AND VOLUMES

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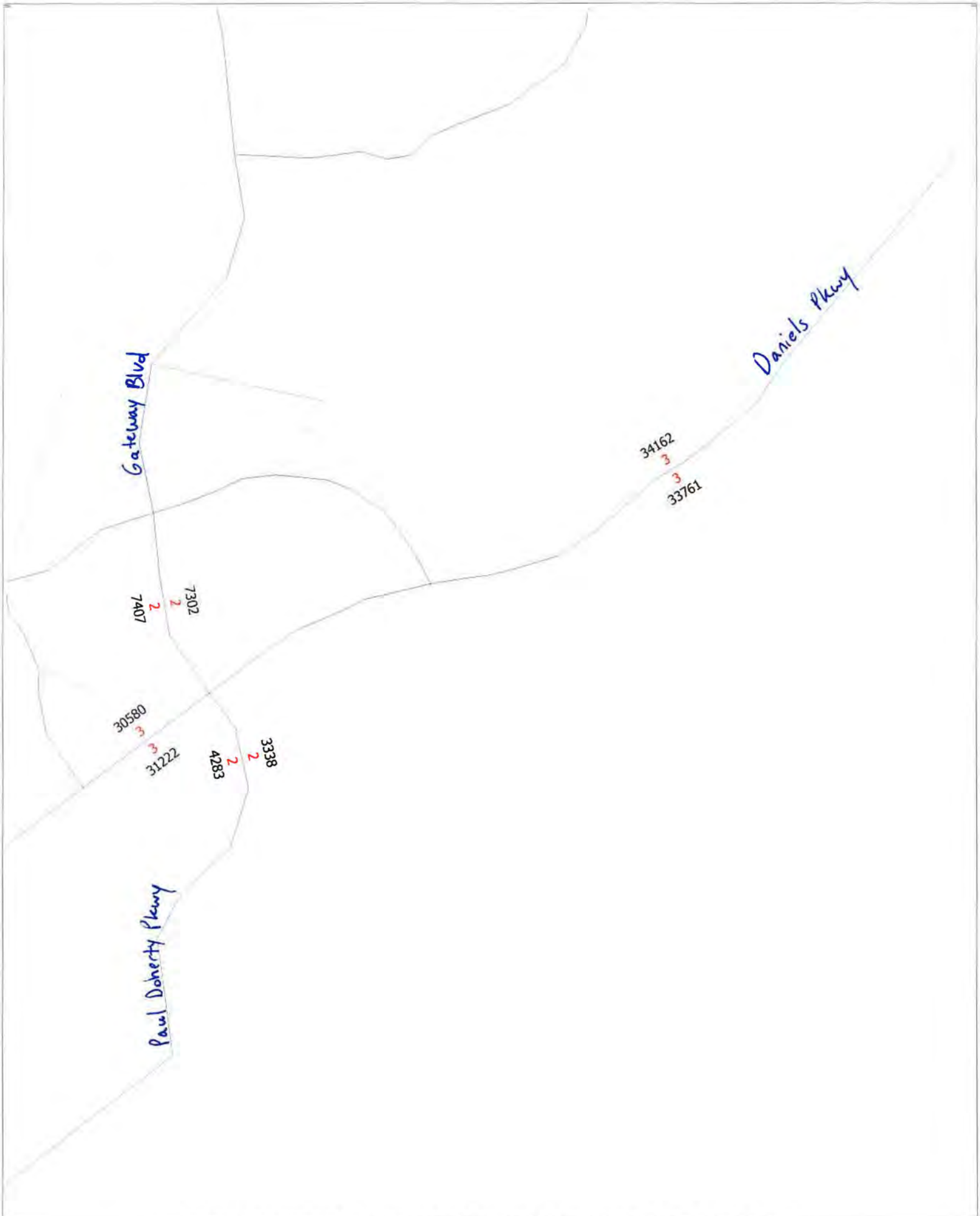

2045 LRTP COST FEASIBLE ROADWAY NETWORK AND VOLUMES

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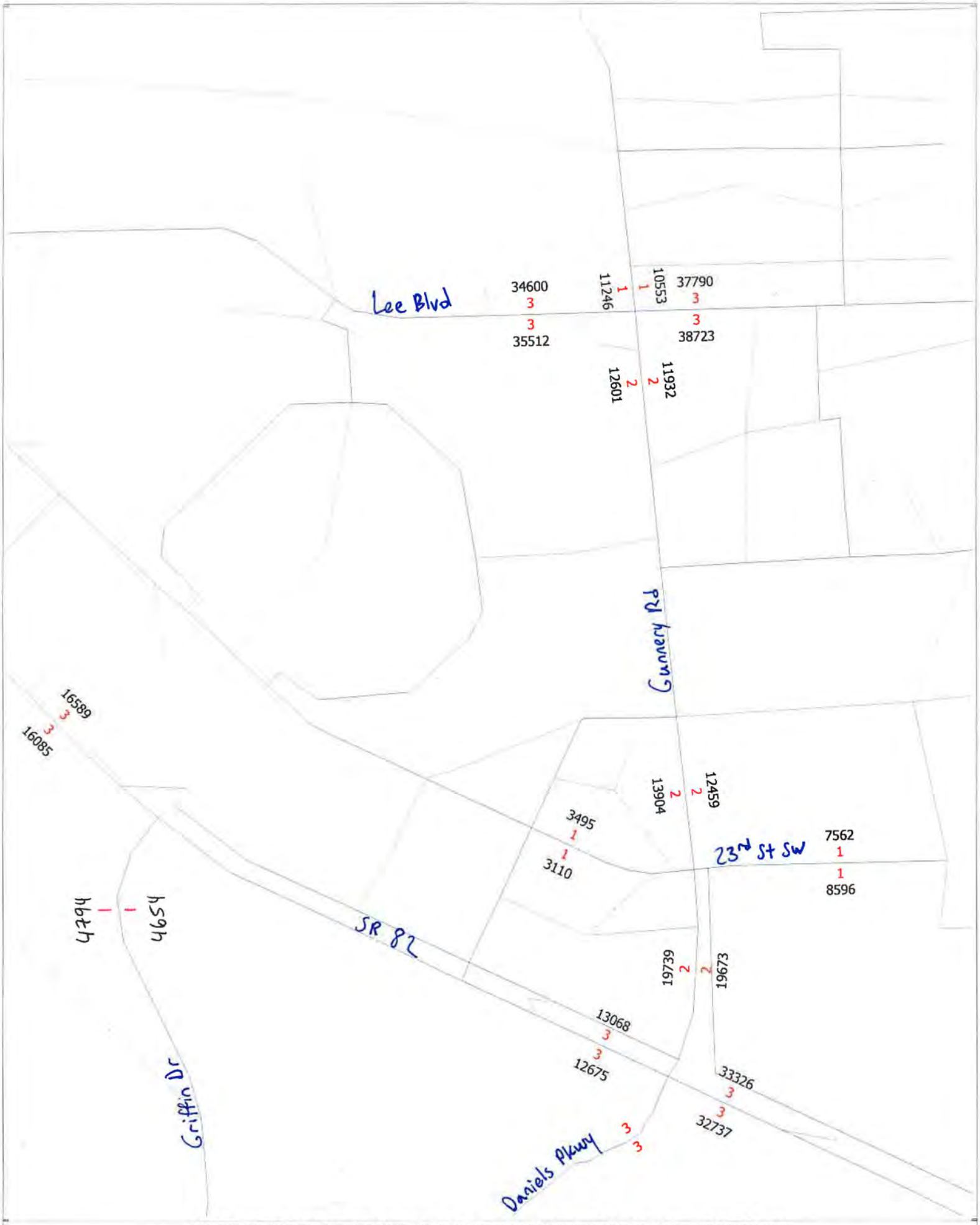

2045 LRTP COST FEASIBLE ROADWAY NETWORK AND VOLUMES

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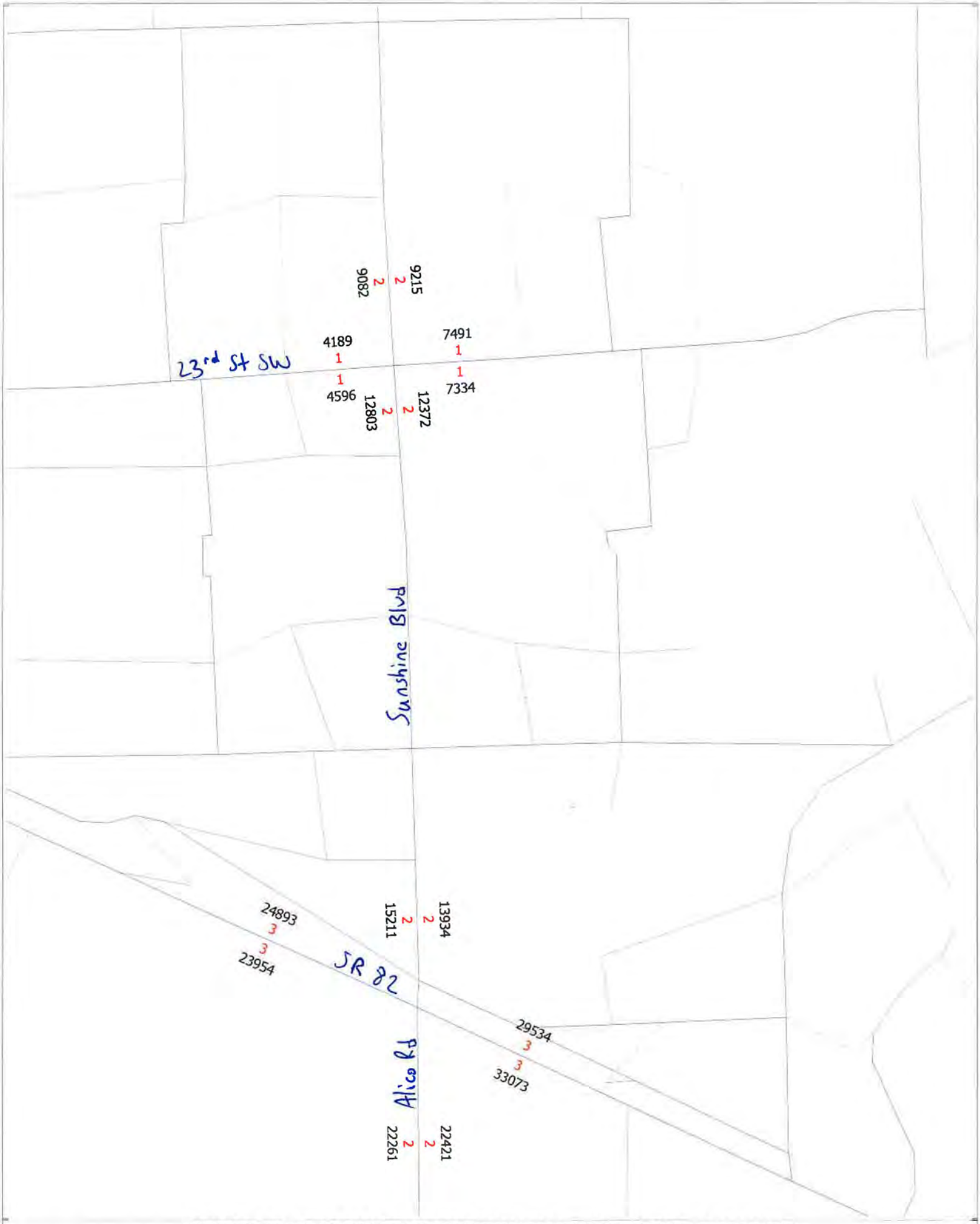

2045 LRTP COST FEASIBLE ROADWAY NETWORK AND VOLUMES

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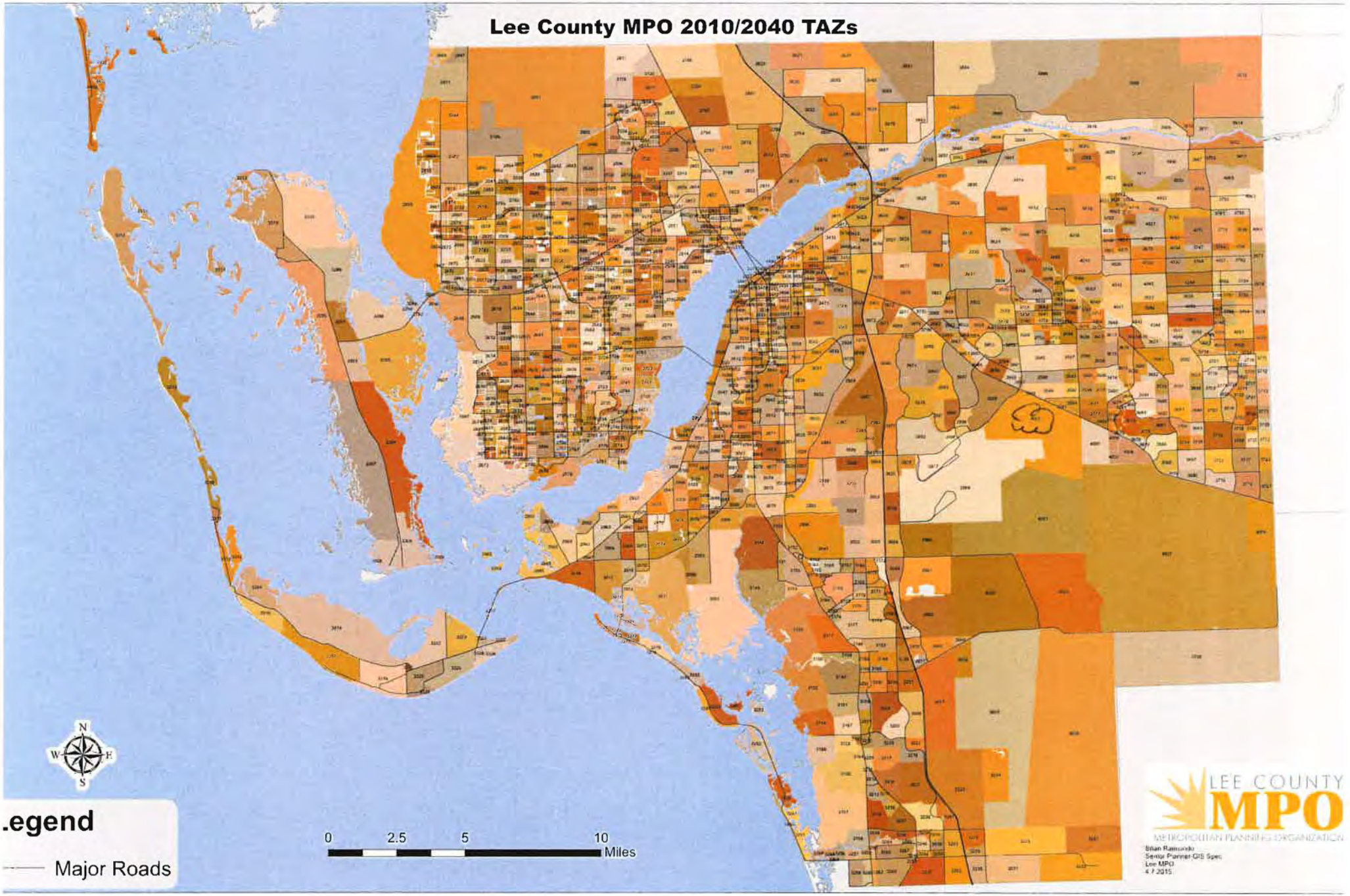
TAZ MAP


Lee County MPO 2010/2040 TAZs
N
W
E
S
.egend
Major Roads
0
2.5
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10
Miles
LEE COUNTY
MPO
METROPOLITAN PLANNING ORGANIZATION
Brian Ramundo
Senior Planner-GIS Spec
Lee MPO
4 7 2015

LEE COUNTY CIP

DRAFT SUMMARY OF MAJOR ROAD PROJECTS PROGRAMMED BY LEE COUNTY - FY20/21TO FY 24/25

COMM DIST.	PROJ #	PROJECT NAME	DRIVER	LENGTH (MILES)	FY 98-19 PRIOR EXP.	19/20 BUDGET	20/21	21/22
		MAJOR PROJECTS						
2,5	209245	Alico Rd. Connector/Alico Rd. to SR 82 opposite Sunshine Blvd. Funds to purchase ROW through Florida Rock property prior to 12/31/2020 per purchase option agreement	People-to-jobs link, Daniels Pkwy. relief NM - Core Critical	9.00	3,936,886 ROW	7,240,686.00 ROW/DES	0	0 0
All	206002	Bicycle/Pedestrian Facilities Annual project for facilities on existing County-maintained roads ***Specific Projects:***	Implementation of bike-ped plan, BPAC priorities, Complete Streets principals		16,939,429	7,467,825	473,533	5,647,455
1		*Veterans Pkwy.SW 10th St. to Skyline Blvd.*	***2016 Priority #22***			*40,500 DES/SUR*	*232,850 CST/CEI*	0
1		*Veterans Pkwy.SW 3rd Pl to SW 2nd Ave*	***2016 Priority #23***			*44,910 DES/SUR*	*258,225* CST/CEI	0
		Hancock Bridge Pkwy Orange Grove to 4055 Hancock	***2017 Priority #4***				495,000 *ROW DES/SUR*	0
		Plantation *Daniels - Idlewild* *Daniels - Crystal* *Crystal Idlewild*	***2019 Priority #2***				*0*	0
4		*Hancock Bridge Pkwy. Sidewalk/North Side, NE 16th Pl. to SE 24th Ave*	***2013 Priority #8***					
2		*Beacon Manor Dr. Sidewalk, US 41 to S. Danley Dr.*	***2014 Priority #1***			*0 DES/SUR*	*0 CST/CEI*	*0*
5		*Orange River Blvd. Palm Beach Blvd. to Lorraine Dr.*	***2016 Priority #4***				*0*	1,354,571 *DES/SUR/ ROW*
5		*Tice St. Sidewalk/South Side, Lynneda Ave. to Ortiz Ave.*	***2015 Priority #2***				*101,038 DES/SUR*	*580,968 CST/CEI*
5		*Tice St. Sidewalk/South Side, Ortiz Ave. to Lexington Ave.*	***2015 Priority #5***				*167,475 DES/SUR*	*962,979 CST/CEI*
5		*Bell Blvd. SR 82 to Sunrise*	***2016 Priority #3***				*0*	*623,080 DES/SUR*
2		*Alico Rd. Sidewalk/North Side, RR Crossing to Quaker Ln.*	***2015 Priority #27***				*0*	*1,139,782 DES/SUR/ ROW*
4		*Pine Rd. Allaire Ln to US 41*	***2016 Priority #28***				*0*	*0*
3		*Bonita Beach Road I-75 to Bonita Grande*	***2016 Priority #8***			*43,300 DES/SUR*	*205,020 CST/CEI*	*0*
3	205724	Big Carlos Pass Bridge Replacement of existing 2-lane bascule bridge with new 2-lane fixed span bridge across Big Carlos Pass	Age Condition of bridge (Bridge Health Index) Mandated		1,694,755 PD&E Study	7,274,803 PD&E Study DES/CST	0	47,810,820 CST/CEI

EMPLOYEMENT CONVERSION FACTORS

Land Use	Employees/ 1,000 Sq. Ft. [1]	Source [2]
Retail/Commercial		
Retail/Commercial 759 emp.	2.50 ≈ 300k SF	DCA
Specialty Retail Center	1.82	ITE, p. 1223
Discount Store	1.96	ITE, p. 1233
Quality Restaurant	7.46	ITE5, p. 1248
High-Turnover Restaurant	9.92	ITE5, p. 1267
Fast-Food Restaurant (with Drive-Thru)	10.90	ITE5, p. 1305
Walk-In Bank	3.52 (Estimate)	ITE, p. 1650
Drive-In Bank	3.64 (Estimate)	ITE, p. 1654
Hotel/Motel		
Hotel	0.90/room	ITE, p. 502
Business Hotel	0.80/room	ITE5, p. 539
Motel	0.44/room	ITE, p. 552
Resort Hotel	0.60/room	ITE5, p. 568
Recreational		
Golf Course	0.25/acre (Estimate) 1.74/hole (Estimate)	ITE, p. 675 ITE, p. 675
Racquet Club	0.86/court (Estimate) 0.36 (Estimate)	ITE, p. 760 ITE, p. 760
State Park	0.27/acre (Estimate)	ITE5, p. 612

#00582

TYPICAL EMPLOYMENT CONVERSION FACTORS

(June, 2001)

Land Use	Employees/ 1,000 Sq. Ft. [1]	Source [2]
Industrial		
Industrial 474 emp.	1.89 = 250k SF	DCA
General Light Industrial	2.31	ITE, p. 89
Industrial Park	2.08	ITE, p. 132
Warehousing	1.28	ITE, p. 188
Office		
General Office, Below 100,000	3.39 4.80	ITE5, p. 940 DCA
General Office, 100,000 - 200,000	3.84 4.40	ITE5, p. 940 DCA
General Office, 201,000 - 500,000	3.22 3.50	ITE5, p. 940 DCA
General Office, Above 500,000	2.88 3.50	ITE5, p. 940 DCA
General Office, Average 1,477emp	3.32 = 445k SF 4.00	ITE, 1059 DCA
Medical-Dental Office Building	4.05	ITE, p. 1073
Office Park	3.26	ITE, p. 1134
Research and Development Center	2.93	ITE, p. 1156

Land Use	Employees/ 1,000 Sq. Ft. [1]	Source [2]
Amusement Park	9.09/acre (Estimate)	ITE, p. 744
Marina	0.01/berth (Estimate)	ITE4, p. 627-636
Recreational	0.16/acre (Estimate)	ITE4, p. 537-545
Park	0.13/acre (Estimate)	ITE4, p. 546-563
Institution		
Elementary School	0.078/student	ITE, p. 813
Private School	0.19/student	ITE5, p. 775
Day Care Center	0.145/student	ITE, p. 913
Library	1.11	ITE, p. 956
Hospital	2.28/bed	ITE, p. 977
Nursing Home	0.648/bed	ITE, p. 1005

Footnotes:

(1) Employees per 1,000 square feet Gross Floor Area (GFA), except as otherwise noted.

(2) SOURCE:
- ITE - Institute of Transportation Engineers, Trip Generation, Sixth Edition.
- ITE5 - Institute of Transportation Engineers, Trip Generation, Fifth Edition.
- ITE4 - Institute of Transportation Engineers, Trip Generation, Fourth Edition.
- DCA - Florida Department of Community Affairs. Draft report titled Housing Demand, Supply and Need Methodology (April 24, 1991), Appendix A.

TRIP GENERATION EQUATIONS

Single-Family Detached Housing
(210)

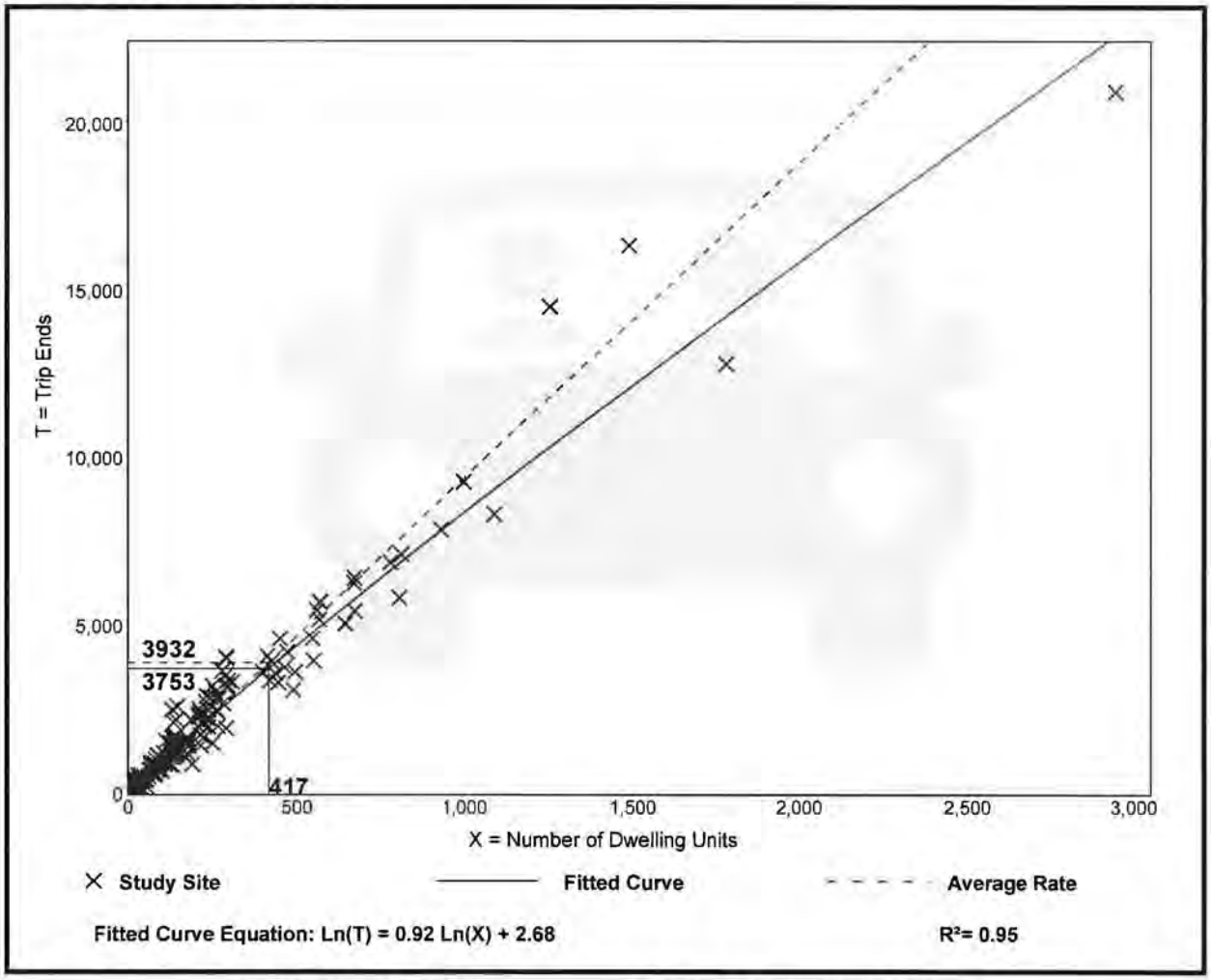
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 174
Avg. Num. of Dwelling Units: 246
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
9.43	4.45 - 22.61	2.13

Data Plot and Equation



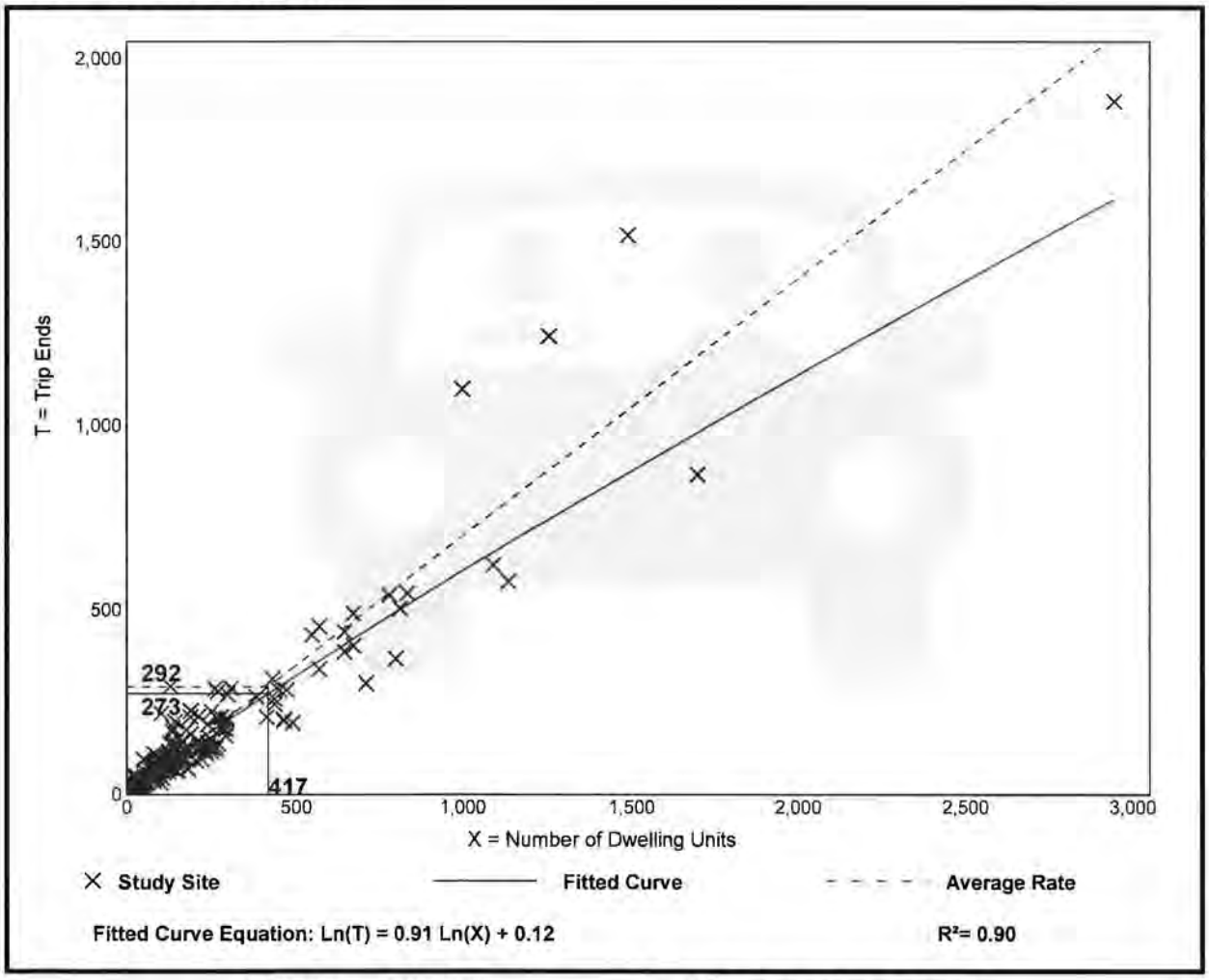
Single-Family Detached Housing
(210)

Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 192
Avg. Num. of Dwelling Units: 226
Directional Distribution: 26% entering, 74% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.70	0.27 - 2.27	0.24

Data Plot and Equation



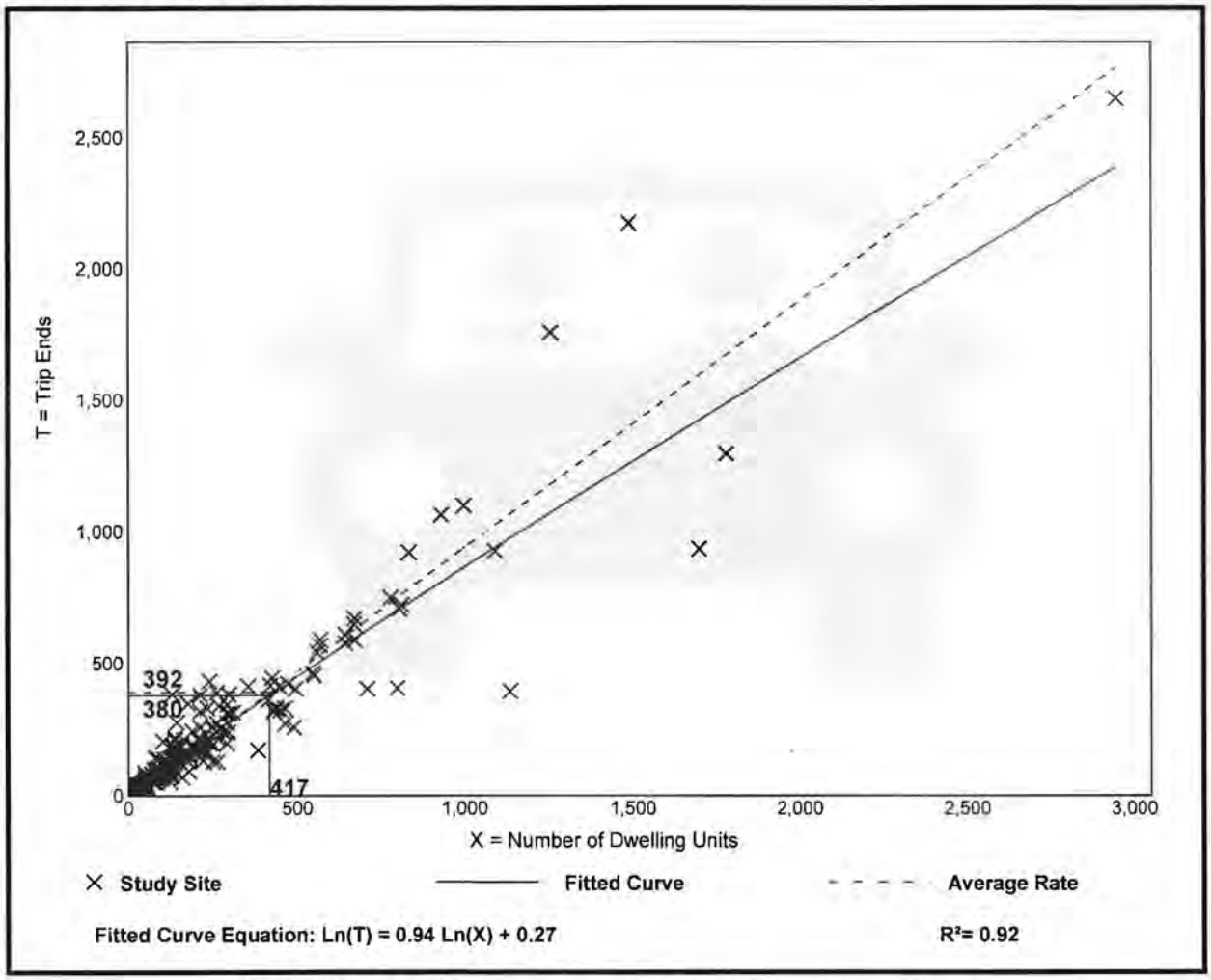
Single-Family Detached Housing
(210)

Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 208
Avg. Num. of Dwelling Units: 248
Directional Distribution: 63% entering, 37% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.94	0.35 - 2.98	0.31

Data Plot and Equation



RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

ATTACHMENT 8

DANIELS PARKWAY SOUTH COMPREHENSIVE PLAN AMENDMENTS CPA2021-00017 & CPA2021-00018

HISTORIC RESOURCES EXHIBIT M13 & T8

[June 10, 2022]

EXHIBIT A

OF HISTORIC RESOURCES
EXHIBIT – M13 & T8

MASTER SITE FILE RESPONSE

This record search is for informational purposes only and does NOT constitute a project review. This search only identifies resources recorded at the Florida Master Site File and does NOT provide project approval from the Division of Historical Resources. Contact the Compliance and Review Section of the Division of Historical Resources at CompliancePermits@dos.MyFlorida.com for project review information.

September 17, 2021

Bailey Schleifer
Assistant Planner
2914 Cleveland Ave
Fort Myers, FL 33901
(239) 337-3993 telephone

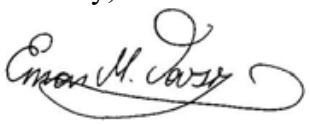
In response to your request on September 17, 2021, the Florida Master Site File lists one archeological site and one resource group found in a designated area within T45N R26E Sections 09, 08, 17, 16, 15, 21, 22, 27 in Lee County, Florida.

When interpreting the results of our search, please consider the following information:

- **This search area may contain *unrecorded* archaeological sites, historical structures or other resources even if previously surveyed for cultural resources.**
- **Because vandalism and looting are common at Florida sites, we ask that you limit the distribution of location information on archaeological sites.**
- **While many of our records document historically significant resources, the documentation of a resource at the Florida Master Site File does not necessarily mean the resource is historically significant.**
- **Federal, state and local laws require formal environmental review for most projects. This search DOES NOT constitute such a review. If your project falls under these laws, you should contact the Compliance and Review Section of the Division of Historical Resources at** CompliancePermits@dos.MyFlorida.com

Please do not hesitate to contact us if you have any questions regarding the results of this search.

Sincerely,



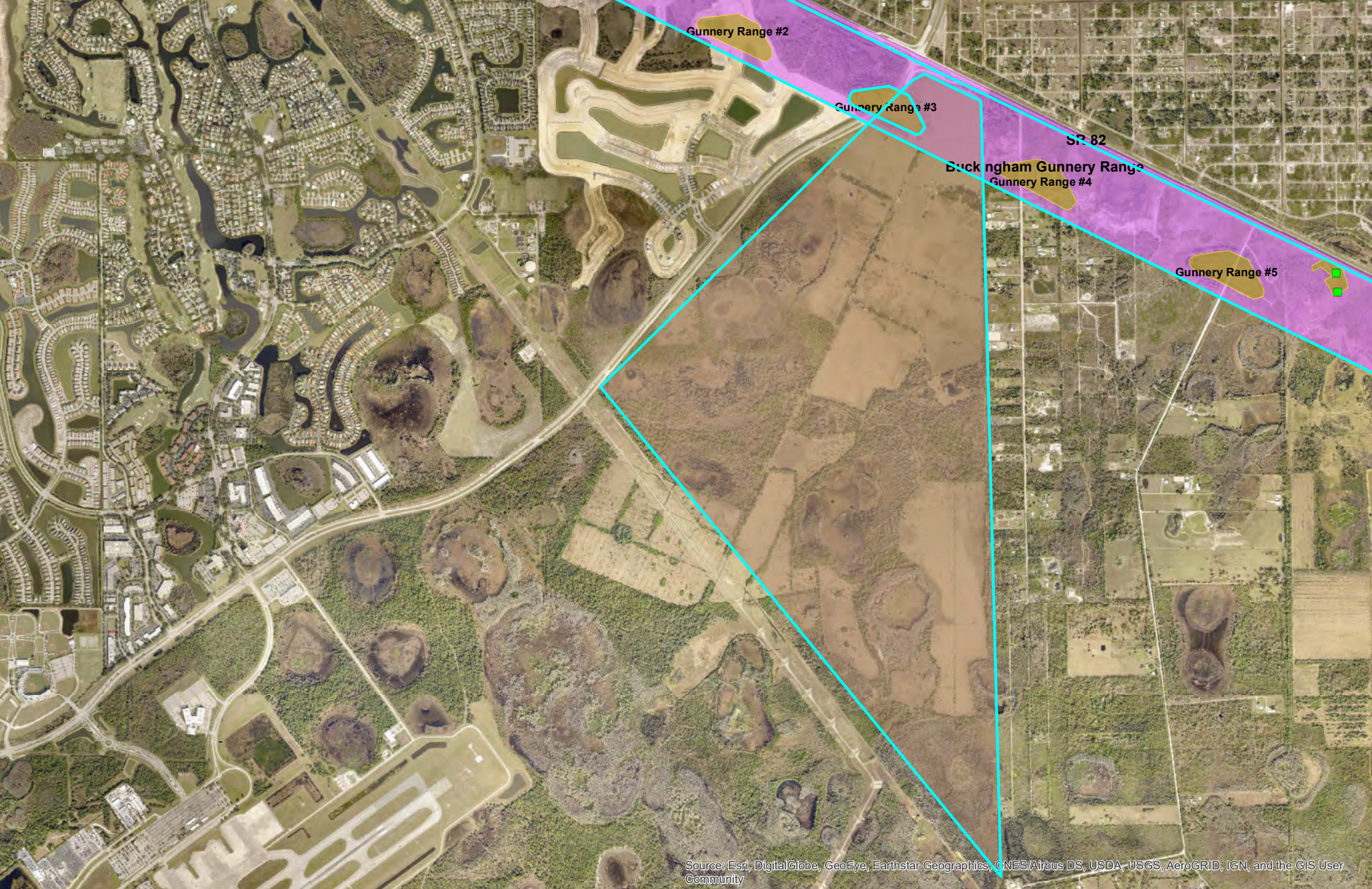
Eman M. Vovsi, Ph.D.
Florida Master Site File
Eman.Vovsi@DOS.MyFlorida.com

Exhibit M13

AR=1
SS=0
CM=0
RG=1
BR=0
Total=2

Cultural Resource Roster

SiteID	Type	Site Name	Address	Additional Info	SHPO Eval	NR Status
LL02406	RG	Buckingham Gunnery Range	Lehigh Acres	Designed Historic Landscape - 5 Contrib Resources	Eligible	
LL02409	AR	Gunnery Range #3	Lehigh Acres		Not Eligible	


Gunnery Range #2
Gunnery Range #3
SR 82
Buckingham Gunnery Range
Gunnery Range #4
Gunnery Range #5
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

ATTACHMENT 9

DANIELS PARKWAY SOUTH
COMPREHENSIVE PLAN AMENDMENTS
CPA2021-00017 & CPA2021-00018

COMMUNITY MEETING SUMMARIES EXHIBITS
M20

[June 10, 2022]

EXHIBIT A

OF COMMUNITY MEETING SUMMARIES
EXHIBIT – M20

LEHIGH ACRES COMMUNITY SUMMARY & AD

Daniels South

Comprehensive Plan Amendment

Map & Text Amendment Meeting Summary

On April 4th, 2022 a Meeting was held at the East Lee County Regional Library 881 Gunnery Road N Fort Myers, FL beginning at 5:30pm. No members of the public attended the meeting. Representatives from Lennar, Morris-Depew and Pavese Law stayed at the meeting location from 5:15 to 6:00pm.

Community Meeting For a Proposed Development

An informational meeting will occur on Monday April 4, 2022 at 5:30pm regarding an application to rezone property for a mixed use development to be located at the southeast corner of the intersection of SR 82 and Daniels Parkway. The meeting will be held at the East County Regional Library, 8881 Gunnery Road N., Lehigh Acres. Please contact Tina M. Ekblad, Director of Planning at Stearns Weaver Miller Law Firm for additional information, tekblad@stearnsweaver.com or 850-354-7624.

EXHIBIT B

OF COMMUNITY MEETING SUMMARIES
EXHIBIT – M20

SOUTHEAST LEE COUNTY COMMUNITY SUMMARY & AD

Daniels South

Comprehensive Plan Amendment

Map & Text Amendment Meeting Summary

On April 5th, 2022 a Meeting was held at Sunny Grove Landscaping & Nursery 1511 S. Mallard Lane Fort Myers, FL beginning at 5:30pm. No members of the public attended the meeting. Representatives from Lennar, Morris-Depew and Pavese Law stayed at the meeting location from 5:15 to 6:00pm.

An informational meeting will occur on Tuesday April 5, 2022 at 5:30pm regarding a comprehensive plan and rezoning for a mixed use development to be located at the southeast corner of the intersection of SR 82 and Daniels Parkway. The meeting will be held at Sunny Grove Landscaping & Nursery at 15111 S Mallard Lane Fort Myers, FL 33913 in the business conference room. Please contact Tina M. Ekblad, Director of Planning at Stearns Weaver Miller Law Firm for additional information, tekblad@stearnsweaver.com or 850-354-7624.
AD#5180683 March 25, 2022

RECEIVED
JUN 13 2022
COMMUNITY DEVELOPMENT

ATTACHMENT 10

DANIELS PARKWAY SOUTH
COMPREHENSIVE PLAN AMENDMENTS
CPA2021-00017 & CPA2021-00018

LEGAL DESCRIPTION & SKETCH EXHIBITS
M7

[June 10, 2022]

DESCRIPTION

DANIELS PARKWAY SOUTH, INTENSIVE DEVELOPMENT

A PARCEL OF LAND LYING IN SECTION 9, TOWNSHIP 45 SOUTH, RANGE 26 EAST, LEE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF SAID SECTION 9; THENCE ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 9, RUN N 00°48' 06" W, 2,190.75 FEET TO THE POINT OF BEGINNING; THENCE DEPARTING SAID EAST LINE RUN S 88°54'58" W, 1,973.39 FEET; THENCE RUN N 63°58'28" W, 1,158.58 FEET TO THE THE SOUTHEASTERLY RIGHT OF WAY LINE OF DANIELS PARKWAY; THENCE THE FOLLOWING (4) COURSES ALONG SAID SOUTHEASTERLY LINE, N 62°23'29 E, 1,204.93 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE TO THE NORTHWEST HAVING A RADIUS OF 1,458.14 FEET, A CENTRAL ANGLE OF 36°29'15", A CHORD BEARING N 44°09'01" E FOR 912.97 FEET; THENCE ALONG THE ARC OF SAID CURVE RUN 928.59 FEET TO THE POINT OF TANGENCY; THENCE RUN N 25°54'24" E, 92.62 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE TO THE SOUTHEAST HAVING A RADIUS OF 225.00 FEET, A CENTRAL ANGLE OF 89°44'45", A CHORD BEARING N 70°46'47" E FOR 317.49 FEET; THENCE ALONG THE ARC OF SAID CURVE RUN 352.43 FEET TO THE POINT OF TANGENCY, SAID POINT ALSO BEING ON THE SOUTHERLY RIGHT OF WAY LINE OF IMMOKALEE ROAD (STATE ROAD 82); THENCE THE FOLLOWING (3) COURSES ALONG SAID SOUTHERLY LINE, S 64°20'50" E, 397.80 FEET; THENCE RUN S 89°06'10" E, 198.19 FEET; THENCE RUN S 64°20'50" E, 434.90 FEET TO THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9; THENCE ALONG SAID EAST LINE RUN S 00°49'04" E, 1,034.18 FEET TO THE EAST CORNER OF SAID SECTION 9; THENCE ALONG THE EAST LINE OF THE AFOREMENTIONED SOUTHEAST QUARTER OF SAID SECTION 9 RUN S 00°48'06" E, 474.66 FEET TO THE POINT OF BEGINNING.

CONTAINING 84.52 ACRES, MORE OR LESS.

SURVEYOR'S NOTES:

THE DESCRIPTION SHOWN HEREON IS NEW.

ORIENTATION BASED ON THE EAST LINE ON THE SOUTHEAST QUARTER SECTION 9-45-26 AS BEARING N 00°48'06" W.

COORDINATES SHOWN HEREON ARE BASED ON FLORIDA STATE PLANE GRID, WEST ZONE AND REFERENCES NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD 83/2011), FDOT FPRN AND ARE SHOWN IN U.S. SURVEY FEET.

CERTIFICATE OF AUTHORIZATION LICENSE BUSINESS NO. 6891.

UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER, AND ALL SHEETS ARE INCLUDED, THIS MAP IS NOT VALID.

THIS IS NOT A SURVEY

PREPARED BY:

REVISIONS:
03-30-2022:REVISED PER COMMENTS

THOMAS M. ROOKS JR., PSM
FLORIDA CERTIFICATE NO. 6347

DATE

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PROJECT:
DANIELS PARKWAY SOUTH
INTENSIVE DEVELOPMENT

LOCATION:
LYING IN SECTION 9,
TOWNSHIP 45 S.,
RANGE 26 E.,
LEE COUNTY, FLORIDA

CONSULTANT:
MORRIS DEPEW
ENGINEERS ● PLANNERS ● SURVEYORS
LANDSCAPE ARCHITECTS
FL CA NO, 6532 / FL CERT NO, LB6891 / LC26000330

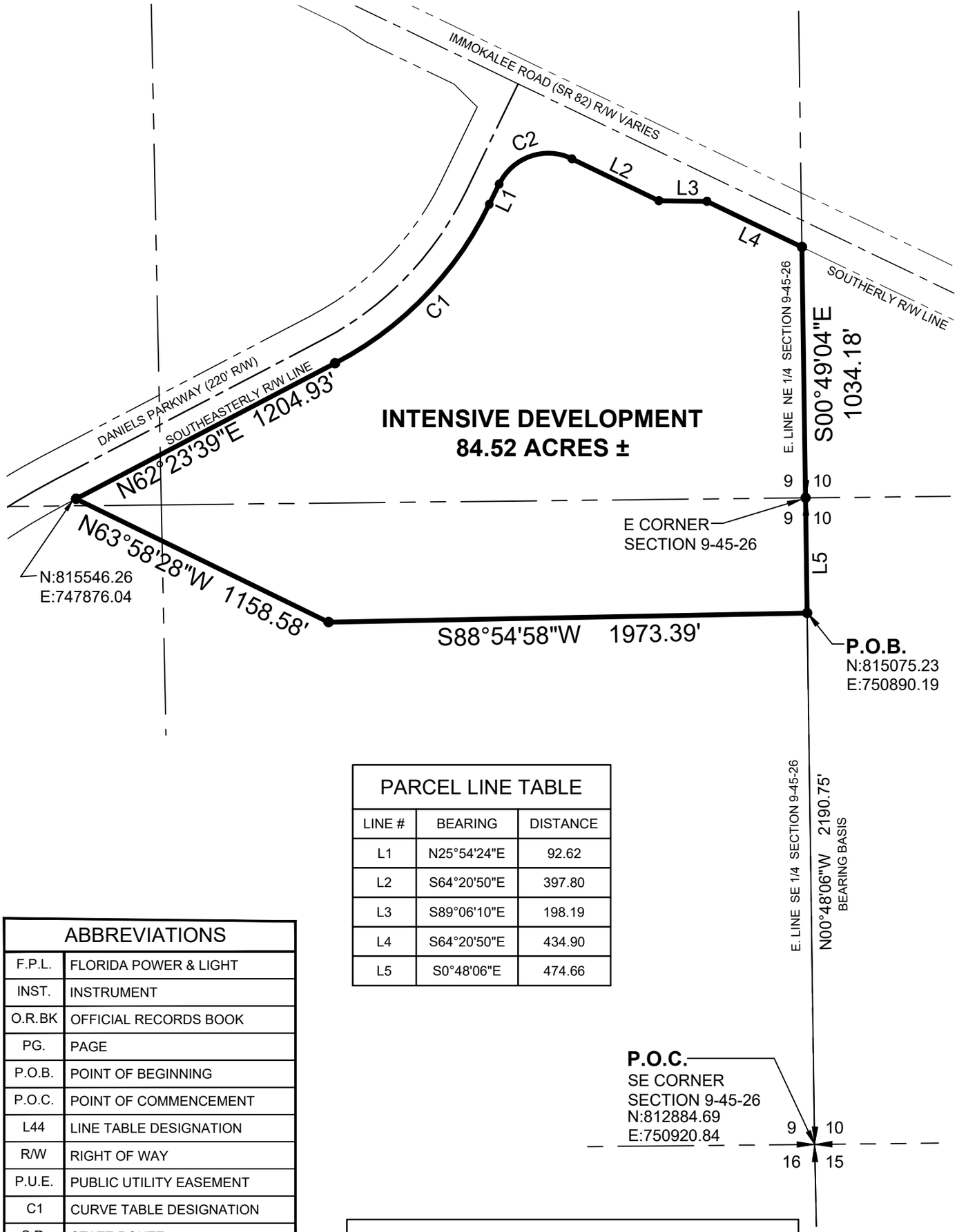
Fort Myers
2914 Cleveland Avenue
Fort Myers, Florida 33901
(239) 337-3993
Fax: (239) 337-3994
Toll free: 866-337-7341

Tallahassee
113 South Monroe Street
1st Floor
Tallahassee, Florida 32301
Toll free: 866-337-7341

Destin
5597 Highway 98
Unit 201
Santa Rosa Beach, Florida 32459
Toll free: 866-337-7341

CLIENT:
LENNAR

PROJECT MANAGER:	TMR
DRAWING BY:	TAB
JURISDICTION:	LEE COUNTY
DATE:	10-29-2021
SHEET TITLE:	SKETCH AND DESCRIPTION
SHEET NUMBER:	1 OF 2
JOB/FILE NUMBER:	19103



PARCEL LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N25°54'24"E	92.62
L2	S64°20'50"E	397.80
L3	S89°06'10"E	198.19
L4	S64°20'50"E	434.90
L5	S0°48'06"E	474.66

ABBREVIATIONS	
F.P.L.	FLORIDA POWER & LIGHT
INST.	INSTRUMENT
O.R.BK	OFFICIAL RECORDS BOOK
PG.	PAGE
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
L44	LINE TABLE DESIGNATION
R/W	RIGHT OF WAY
P.U.E.	PUBLIC UTILITY EASEMENT
C1	CURVE TABLE DESIGNATION
S.R.	STATE ROUTE
C.A.	CENTRAL ANGLE
CHD	CHORD
BRG	BEARING

CURVE TABLE					
CURVE #	RADIUS	C.A.	ARC	CHD	CHD BRG
C1	1458.14	36° 29' 15"	928.59	912.97	N44° 09' 01"E
C2	225.00	89° 44' 45"	352.43	317.49	N70° 46' 47"E

REVISIONS:
03-30-2022:REVISED PER COMMENTS

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PROJECT:
DANIELS PARKWAY SOUTH
INTENSIVE DEVELOPMENT

LOCATION:
LYING IN SECTION 9,
TOWNSHIP 45 S.,
RANGE 26 E.,
LEE COUNTY, FLORIDA

CONSULTANT:
MORRIS DEPEW
ENGINEERS ● PLANNERS ● SURVEYORS
LANDSCAPE ARCHITECTS
FL CA NO. 6532 / FL CERT NO. LB6891 / LC26000330

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113 South Monroe Street
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Tallahassee, Florida 32301
Toll free: 866-337-7341

Destin
5597 Highway 98
Unit 201
Santa Rosa Beach, Florida 32459
Toll free: 866-337-7341

CLIENT:
LENNAR

500 0 250 500
SCALE 1"=500'

PROJECT MANAGER:	TMR
DRAWING BY:	TAB
JURISDICTION:	LEE COUNTY
DATE:	10-29-2021
SHEET TITLE:	SKETCH AND DESCRIPTION
SHEET NUMBER:	2 OF 2
JOB/FILE NUMBER:	19103

DESCRIPTION

DANIELS PARKWAY SOUTH, MIXED-USE ENHANCEMENT COMMUNITIES

PARCEL OF LAND LYING IN SECTIONS 8, 9, 16, 17 AND 21, TOWNSHIP 45 SOUTH, RANGE 26 EAST, LEE COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 21; THENCE N 01°13'41" W, A DISTANCE OF 133.80 FEET ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 21 TO THE NORTH LINE OF AN 80-FOOT WIDE FLORIDA POWER AND LIGHT (FPL) EASEMENT AS RECORDED IN OFFICIAL RECORDS BOOK 743, UPON PAGE 661 OF THE PUBLIC RECORDS OF LEE COUNTY FLORIDA AND THE **POINT OF BEGINNING**;THENCE N 37°56'50" W, A DISTANCE OF 8,288.06 FEET ALONG THE NORTH LINE OF SAID EASEMENT (OR BK 743, PG 661); THENCE N 52°01'00" E, A DISTANCE OF 575.98 FEET; THENCE S 82°48'59" W, A DISTANCE OF 19.34 FEET; THENCE N 71°09'45" W, A DISTANCE OF 57.71 FEET; THENCE N 63°37'28" W, A DISTANCE OF 49.30 FEET; THENCE N 48°54'15" W, A DISTANCE OF 126.29 FEET; THENCE N 60°33'49" W, A DISTANCE OF 24.67 FEET; THENCE N 83°44'43" W, A DISTANCE OF 98.46 FEET; THENCE N 70°22'20" W, A DISTANCE OF 100.60 FEET; THENCE N 48°18'33" W, A DISTANCE OF 42.53 FEET; THENCE N 24°42'28" W, A DISTANCE OF 135.25 FEET; THENCE S 48°57'02" W, A DISTANCE OF 54.02 FEET; THENCE S 63°26'05" W, A DISTANCE OF 68.07 FEET; THENCE S 84°15'26" W, A DISTANCE OF 45.45 FEET; THENCE N 79°07'02" W, A DISTANCE OF 34.18 FEET; THENCE N 66°31'59" W, A DISTANCE OF 154.47 FEET; THENCE N 72°54'16" W, A DISTANCE OF 34.99 FEET; THENCE N 45°25'11" W, A DISTANCE OF 82.93 FEET; THENCE N 32°23'59" W, A DISTANCE OF 103.81 FEET; THENCE N 82°46'27" W, A DISTANCE OF 15.23 FEET; THENCE S 19°01'18" W, A DISTANCE OF 40.48 FEET; THENCE N 81°11'32" W, A DISTANCE OF 69.90 FEET; THENCE N 32°13'26" W, A DISTANCE OF 50.84 FEET; THENCE S 49°10'02" W, A DISTANCE OF 7.87 FEET TO THE NORTH LINE OF SAID EASEMENT (OR BK 743, PG 661); THENCE N 37°56'50" W, A DISTANCE OF 449.47 FEET ALONG THE NORTH LINE OF SAID EASEMENT (OR BK 743, PG 661); THENCE N 29°19'28" E, A DISTANCE OF 20.34 FEET; THENCE N 47°11'44" E, A DISTANCE OF 65.51 FEET; THENCE N 84°08'32" E, A DISTANCE OF 71.02 FEET; THENCE N 38°34'37" E, A DISTANCE OF 29.66 FEET; THENCE N 00°51'38" W, A DISTANCE OF 29.94 FEET; THENCE N 15°35'20" W, A DISTANCE OF 77.08 FEET; THENCE N 33°48'21" E, A DISTANCE OF 78.80 FEET; THENCE N 25°23'33" E, A DISTANCE OF 114.63 FEET; THENCE N 16°58'54" E, A DISTANCE OF 85.90 FEET; THENCE N 27°52'17" E, A DISTANCE OF 39.89 FEET; THENCE N 72°43'23" W, A DISTANCE OF 83.98 FEET; THENCE N 70°39'13" W, A DISTANCE OF 175.90 FEET; THENCE N 74°05'06" W, A DISTANCE OF 185.89 FEET; THENCE N 77°53'04" W, A DISTANCE OF 174.58 FEET; THENCE N 78°30'12" W, A DISTANCE OF 137.71 FEET; THENCE N 73°20'55" W, A DISTANCE OF 86.69 FEET TO THE NORTH LINE OF SAID EASEMENT (OR BK 743, PG 661); THENCE N 37°56'50" W, A DISTANCE OF 733.08 FEET ALONG THE NORTH LINE OF SAID EASEMENT (OR BK 743, PG 661) TO THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF "DANIELS PARKWAY"; THENCE THE FOLLOWING COURSES ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE OF "DANIELS PARKWAY"; N 40°00'00" E, A DISTANCE OF 4,509.83 FEET; WITH A CURVE TURNING TO THE RIGHT WITH A RADIUS OF 2,754.79 FEET AND A CENTRAL ANGLE OF 22°23'39", A CHORD BEARING OF N 51°11'49" E, FOR 1,069.87 FEET, THENCE ALONG THE ARC OF SAID CURVE RUN 1,076.72 FEET; THENCE N 62°23'39" E, A DISTANCE OF 38.88 FEET; THENCE DEPARTING SAID SOUTHERLY RIGHT OF WAY LINE, RUN S 63°58'28" E, A DISTANCE OF 1,158.58 FEET; THENCE RUN N 88°54'58" E, 1973.39 FEET TO THE EAST LINE OF THE SOUTHEAST QUARTER THENCE ALONG SAID EAST LINE RUN, S 00°48'06" E, A DISTANCE OF 2,190.75 FEET ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 9; THENCE S 01°13'32" E, A DISTANCE OF 2,660.59 FEET ALONG THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 16; THENCE S 01°13'21" E, A DISTANCE OF 2,660.58 FEET ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 16; THENCE S 01°13'59" E, A DISTANCE OF 2,660.31 FEET ALONG THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 21; THENCE S 01°13'41" E, A DISTANCE OF 2,526.55 FEET ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 21 TO THE **POINT OF BEGINNING**.

CONTAINING 1,148.56 ACRES, MORE OR LESS.

SURVEYOR'S NOTES:

THE DESCRIPTION SHOWN HEREON IS NEW.

ORIENTATION BASED ON THE EAST LINE OF THE SOUTHEAST QUARTER SECTION 21-45-26 AS BEARING N 01°13'41" W.

COORDINATES SHOWN HEREON ARE BASED ON FLORIDA STATE PLANE GRID, WEST ZONE AND REFERENCES NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD 83/2011), FDOT FPRN AND ARE SHOWN IN U.S. SURVEY FEET.

CERTIFICATE OF AUTHORIZATION LICENSE BUSINESS NO. 6891.

UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER, AND ALL SHEETS ARE INCLUDED, THIS MAP IS NOT VALID.

THIS IS NOT A SURVEY

PREPARED BY:

REVISIONS:
03-30-2022:REVISED PER COMMENTS

THOMAS M. ROOKS JR., PSM — DATE
FLORIDA CERTIFICATE NO. 6347

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PROJECT:
DANIELS PARKWAY SOUTH
MIXED USE ENHANCEMENT
COMMUNITIES

LOCATION:
LYING IN
SECTIONS 8, 9, 16, 17 & 21
TOWNSHIP 45 S.,
RANGE 26 E.,
LEE COUNTY, FLORIDA

CONSULTANT:
MORRIS DEPEW
ENGINEERS ● PLANNERS ● SURVEYORS
LANDSCAPE ARCHITECTS
FL CA NO. 6532 / FL CERT NO. LB6891 / LC26000330

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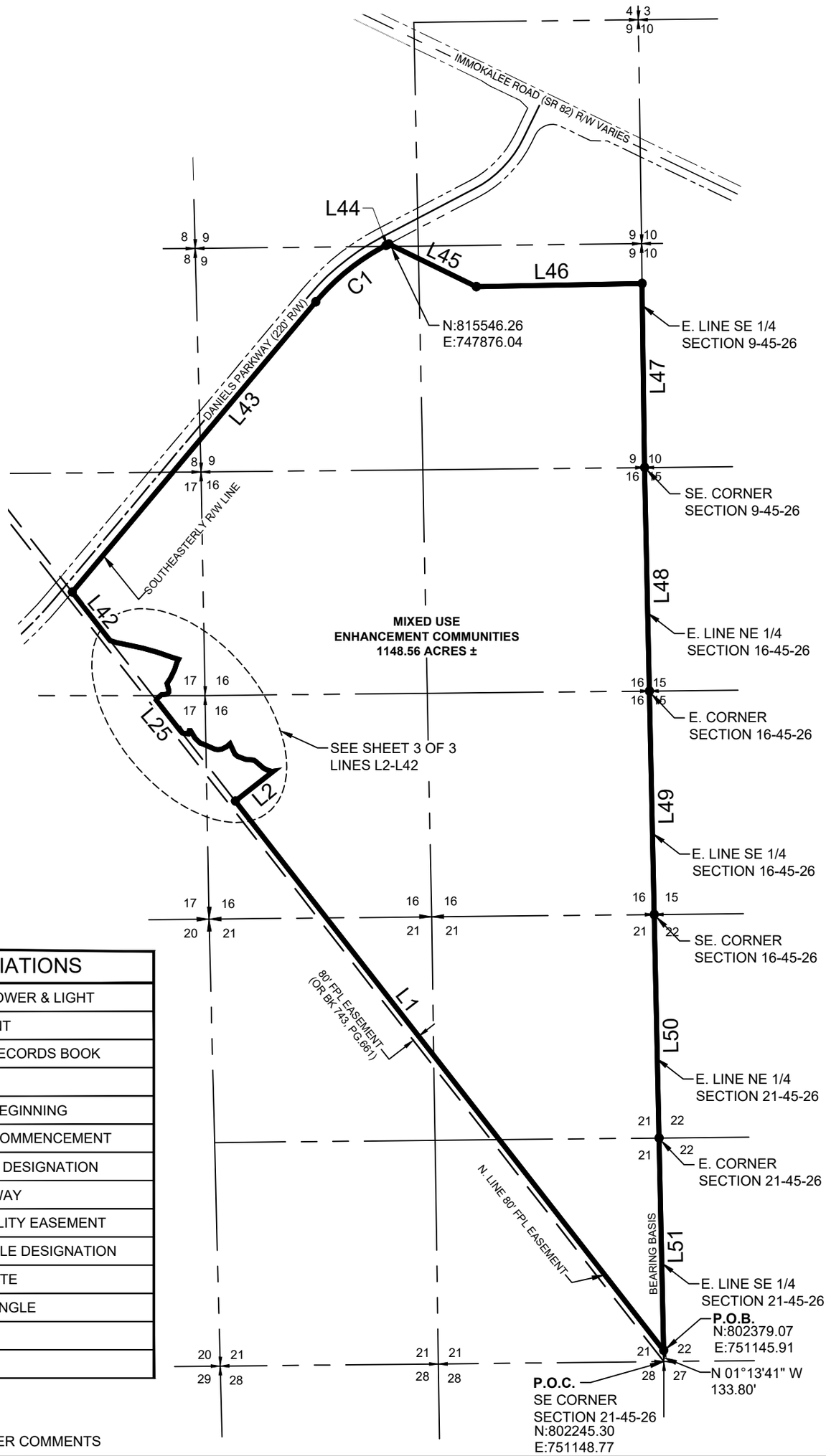
113 South Monroe Street
1st Floor
Tallahassee, Florida 32301
Toll free: 866-337-7341

Destin
5597 Highway 98
Unit 201
Santa Rosa Beach, Florida 32459
Toll free: 866-337-7341

CLIENT:
LENNAR

PROJECT MANAGER:	TMR
DRAWING BY:	TAB
JURISDICTION:	LEE COUNTY
DATE:	10-29-2021
SHEET TITLE:	SKETCH AND DESCRIPTION
SHEET NUMBER:	1 OF 3
JOB/FILE NUMBER:	19103



ABBREVIATIONS	
F.P.L.	FLORIDA POWER & LIGHT
INST.	INSTRUMENT
O.R.BK	OFFICIAL RECORDS BOOK
PG.	PAGE
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
L44	LINE TABLE DESIGNATION
R/W	RIGHT OF WAY
P.U.E.	PUBLIC UTILITY EASEMENT
C1	CURVE TABLE DESIGNATION
S.R.	STATE ROUTE
C.A.	CENTRAL ANGLE
CHD	CHORD
BRG	BEARING

REVISIONS:
03-30-2022:REVISED PER COMMENTS

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1500 0 750 1500
SCALE 1"=1500'

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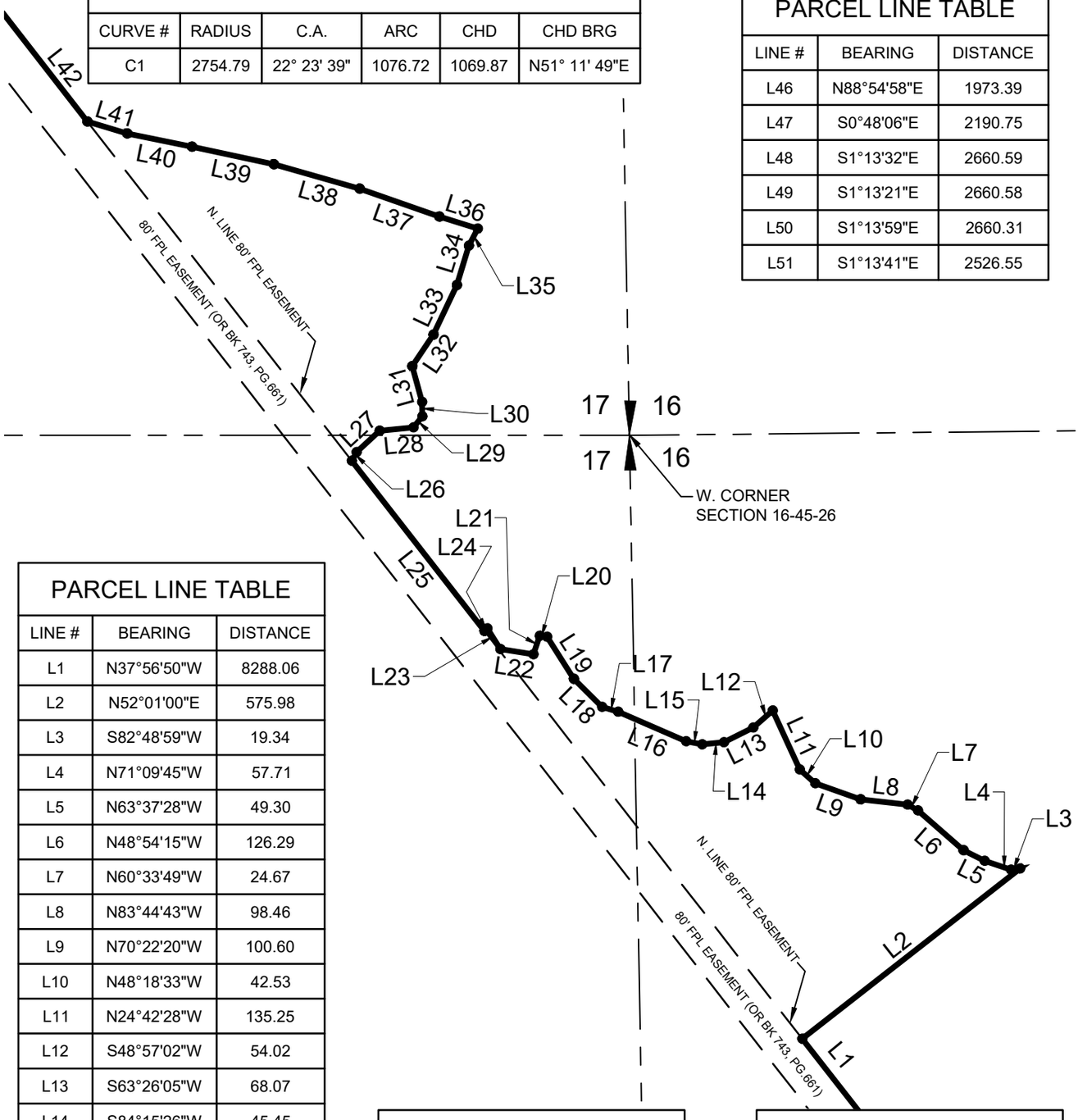
CURVE TABLE					
CURVE #	RADIUS	C.A.	ARC	CHD	CHD BRG
C1	2754.79	22° 23' 39"	1076.72	1069.87	N51° 11' 49"E

PARCEL LINE TABLE		
LINE #	BEARING	DISTANCE
L46	N88°54'58"E	1973.39
L47	S0°48'06"E	2190.75
L48	S1°13'32"E	2660.59
L49	S1°13'21"E	2660.58
L50	S1°13'59"E	2660.31
L51	S1°13'41"E	2526.55



PARCEL LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N37°56'50"W	8288.06
L2	N52°01'00"E	575.98
L3	S82°48'59"W	19.34
L4	N71°09'45"W	57.71
L5	N63°37'28"W	49.30
L6	N48°54'15"W	126.29
L7	N60°33'49"W	24.67
L8	N83°44'43"W	98.46
L9	N70°22'20"W	100.60
L10	N48°18'33"W	42.53
L11	N24°42'28"W	135.25
L12	S48°57'02"W	54.02
L13	S63°26'05"W	68.07
L14	S84°15'26"W	45.45
L15	N79°07'02"W	34.18
L16	N66°31'59"W	154.47
L17	N72°54'16"W	34.99
L18	N45°25'11"W	82.93
L19	N32°23'59"W	103.81
L20	N82°46'27"W	15.23
L21	S19°01'18"W	40.48
L22	N81°11'32"W	69.90
L23	N32°13'26"W	50.84
L24	S49°10'02"W	7.87
L25	N37°56'50"W	449.47

PARCEL LINE TABLE		
LINE #	BEARING	DISTANCE
L26	N29°19'28"E	20.34
L27	N47°11'44"E	65.51
L28	N84°08'32"E	71.02
L29	N38°34'37"E	29.66
L30	N0°51'38"W	29.94
L31	N15°35'20"W	77.08
L32	N33°48'21"E	78.80
L33	N25°23'33"E	114.63
L34	N16°58'54"E	85.90
L35	N27°52'17"E	39.89

PARCEL LINE TABLE		
LINE #	BEARING	DISTANCE
L36	N72°43'23"W	83.98
L37	N70°39'13"W	175.90
L38	N74°05'06"W	185.89
L39	N77°53'04"W	174.58
L40	N78°30'12"W	137.71
L41	N73°20'55"W	86.69
L42	N37°56'50"W	733.08
L43	N40°00'00"E	4509.83
L44	N62°23'39"E	38.88
L45	S63°58'28"E	1158.58

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300 0 150 300
SCALE 1"=300'

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SHEET NUMBER:	3 OF 3
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