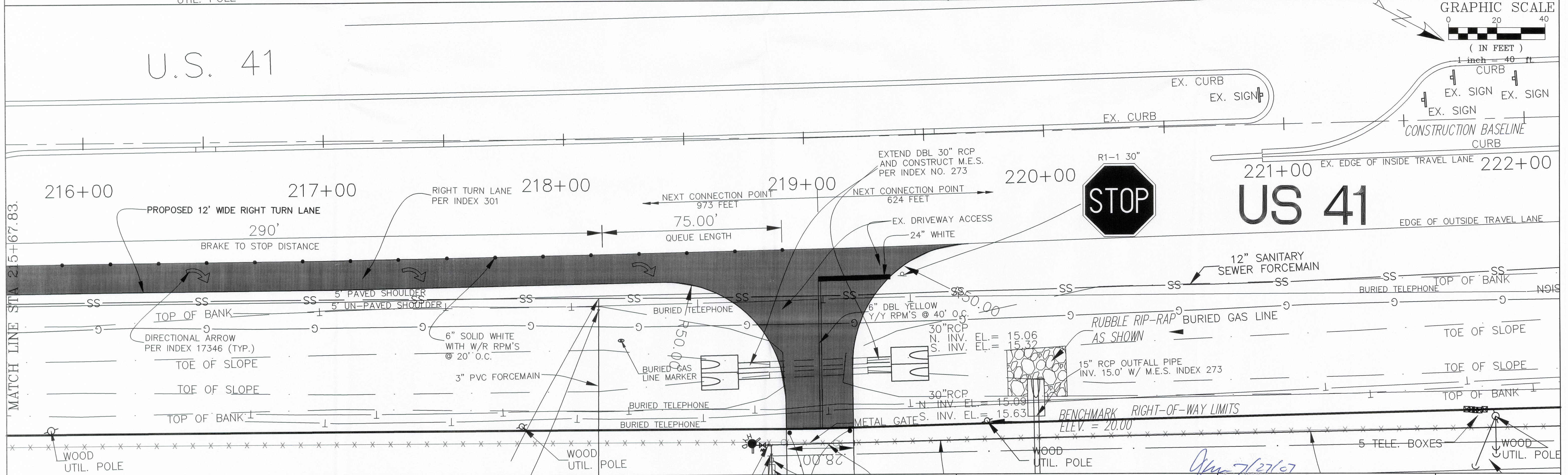
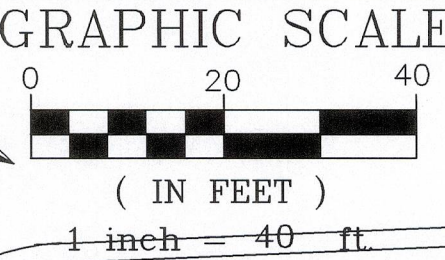
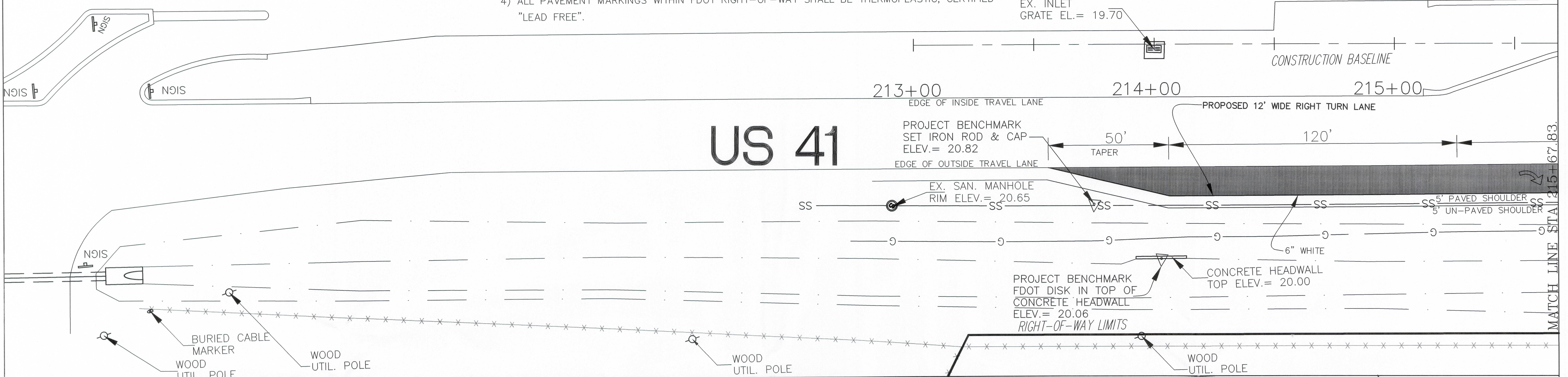
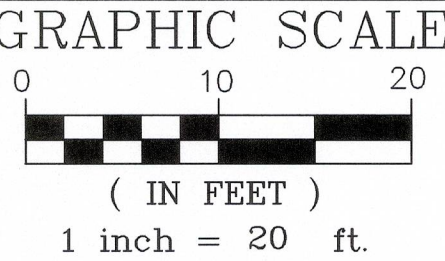


- GENERAL NOTES: 1) ALL RPM PLACEMENT TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17352.
2) ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATION FOR ROADWAY CONSTRUCTION AND TRAFFIC DEIGN STANDARD INDEX.
3) ALL SIGNING AND STRIPING WITHIN THE FDOT RIGHT-OF-WAY TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17346.
4) ALL PAVEMENT MARKINGS WITHIN FDOT RIGHT-OF-WAY SHALL BE THERMOPLASTIC, CERTIFIED "LEAD FREE".



SCALE: 1" = 20'	JOSEPH W. EBNER, P.E. FL. REG. # 19359 NOT VALID UNLESS SIGNED & EMBOSSED SEALED	LEE COUNTY P.O. BOX 398, FORT MYERS, FL 33902-0398 (239) 489-1814 FAX (239) 489-1816	6/6/06 PERMIT REVIEW SET 8/24/06 REVISED PER FDOT COMMENTS 10/4/06 REVISED PER FDOT COMMENTS 1/15/07 REVISED PER FDOT COMMENTS	J.W. EBNER CONSULTING, INC. 2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904 (239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM	PRAIRIE PINES PRESERVE TURN LANE PLAN LDC JUL 23 2008 APPROVED	PROJECT NO.: 06-113-01 SHEET NO.: TL-1
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V: 1 inch = 2.5 ft.

Profile view of a proposed turn lane. The vertical axis shows elevation in feet (13 to 23). The horizontal axis shows stationing (1+00 to 2+50). The profile includes existing ground (dashed line), existing pavement (solid line), and proposed turn lane (solid line). Key features include:

- PGP (Proposed Grade Point) at STA: 1+50.74 ELEV: 21.26 EX. EDGE OF PAVEMENT.
- PROPOSED TURN LANE E.O.P. (End of Project) at STA: 1+62.74 ELEV: 20.90.
- STA: 1+72.74 ELEV: 20.30 EDGE OF SHLDR. (Shoulder).
- TIE TO EXISTING GRADE at STA: 1+72.74 ELEV: 20.30.
- Grades: -3.00% and -6.00%.
- EX. 12" F.M. (Existing 12-inch Fire Main) and EX. TEL. CABLE (Existing Telephone Cable) are shown crossing the turn lane.
- FDOT FINANCIAL PROJECT ID 195729-1-52-01.
- EX. TEL. CABLE (Existing Telephone Cable) is shown crossing the turn lane.
- R/W LINE (Right of Way Line) is indicated.
- Vertical curve data: 20.7, 21.3, 15.1, 17.9.

V: 1 inch = 2.5 ft.

Profile view of a proposed road project. The vertical axis represents elevation in feet, ranging from 13 to 23. The horizontal axis represents stationing, ranging from 1+00 to 2+50. The profile shows the existing ground surface (dashed line) and the proposed road grade (solid line). Key features include:

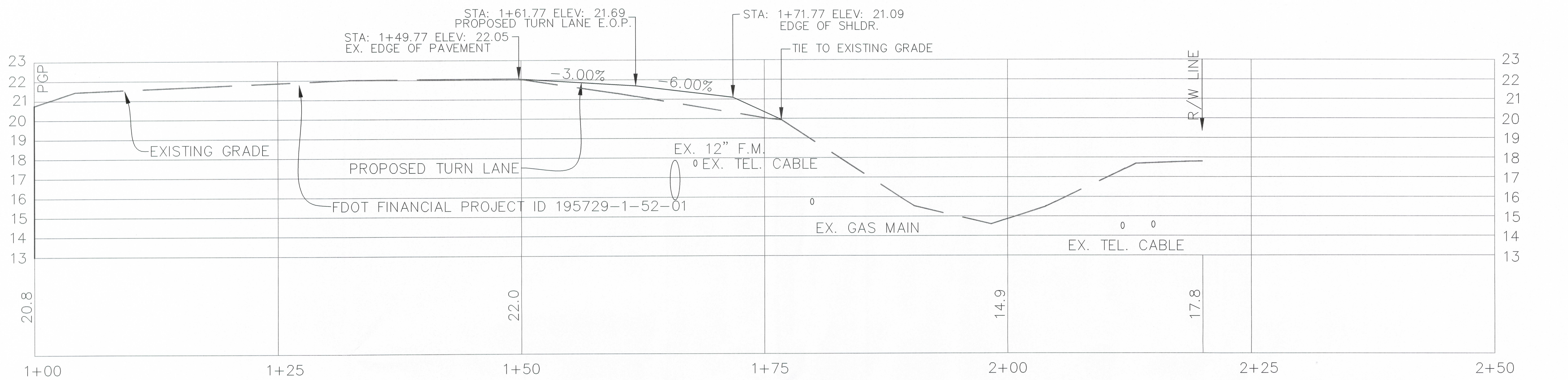
- Existing Grade:** Shown as a dashed line.
- Proposed Grade:** Shown as a solid line.
- Proposed Turn Lane:** Indicated by a curved arrow pointing to the proposed grade line.
- Elevations:**
 - STA: 1+50.44 ELEV: 21.14
 - STA: 1+62.44 ELEV: 20.78
 - STA: 1+72.44 ELEV: 20.18
- Grades:**
 - 3.00%
 - 6.00%
- Utilities:**
 - EX. 12" F.M.
 - EX. TEL. CABLE
 - EX. GAS MAIN
 - EX. TEL. CABLE
- Right of Way (R/W) Line:** Indicated by a vertical line at approximately station 2+25.
- FDOT Financial Project ID:** 195729-1-52-01
- Vertical Curve Data:**
 - 20.2
 - 21.1
 - 15.5
 - 17.8

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JUL 23 2008
APPROVED

SCALE: 1"= 5'	JOSEPH W. EBNER, P.E. FL. REG. # 19359 NOT VALID UNLESS SIGNED & EMBOSSED SEALED	LEE COUNTY P.O. BOX 398, FORT MYERS, FL 33902-0398 (239) 489-1814 FAX (239) 489-1816	6/6/06 PERMIT REVIEW SET			J.W. EBNER CONSULTING, INC. 2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904 (239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM	PRAIRIE PINES PRESERVE	PROJECT NO.: 06-113-01
DATE: JULY 2007							TURN LANE PLAN CROSS-SECTIONS	SHEET NO.: TL-2

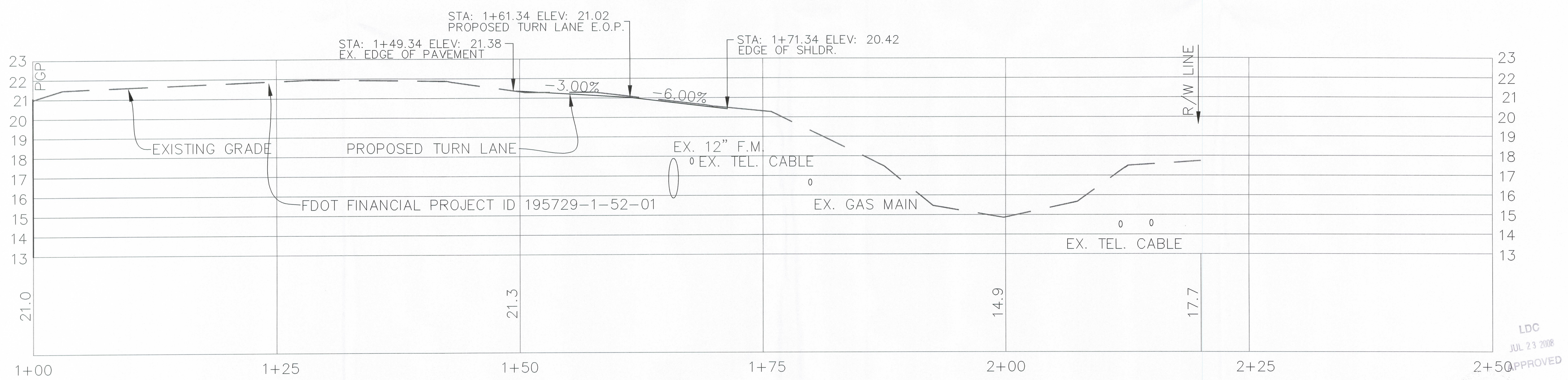
H: 1 inch = 5 ft.
V: 1 inch = 2.5 ft.

CROSS-SECTION @ STA. 216+00



H: 1 inch = 5 ft.
V: 1 inch = 2.5 ft.

CROSS-SECTION @ STA. 217+00



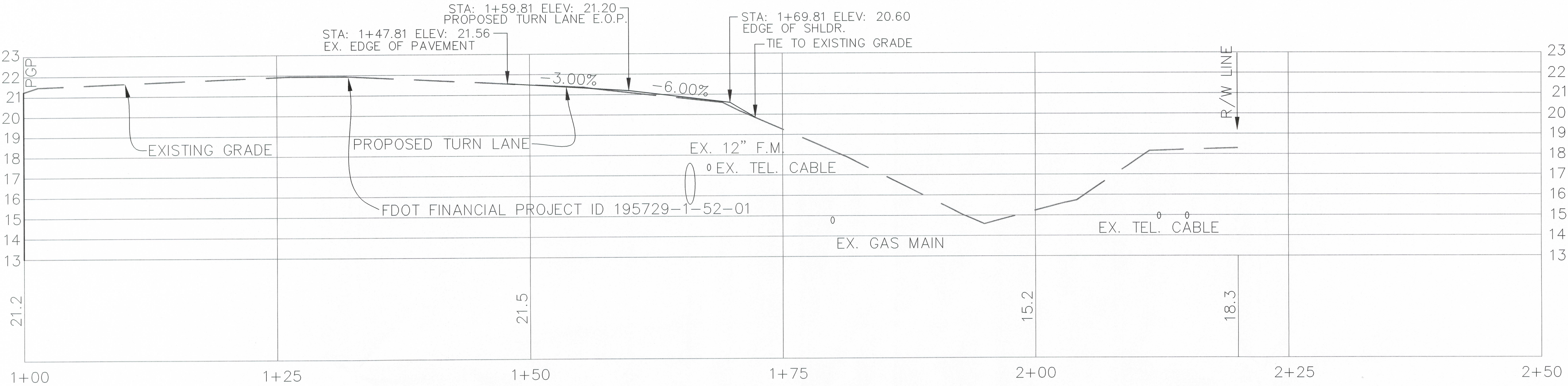
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JUL 23 2008

NOTE: HORIZONTAL UTILITY LOCATIONS WERE FIELD LOCATED.
VERTICAL LOCATIONS ASSUME 3' COVER APPROXIMATE.

CROSS-SECTION @ STA. 218+00

H: 1 inch = 5 ft.

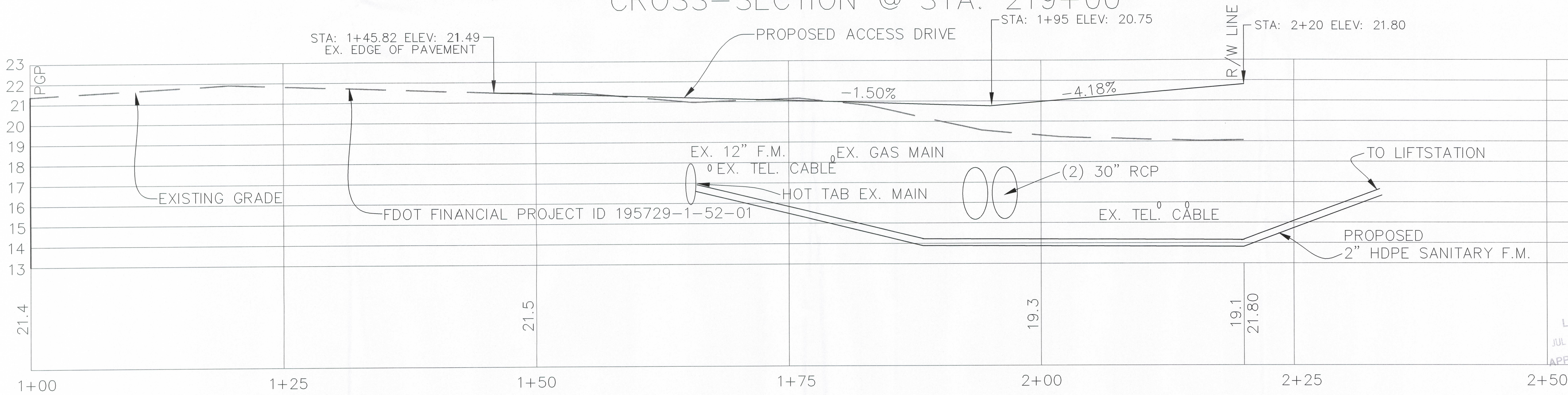
V: 1 inch = 2.5 ft.



CROSS-SECTION @ STA. 219+00

H: 1 inch = 5 ft.

V: 1 inch = 2.5 ft.

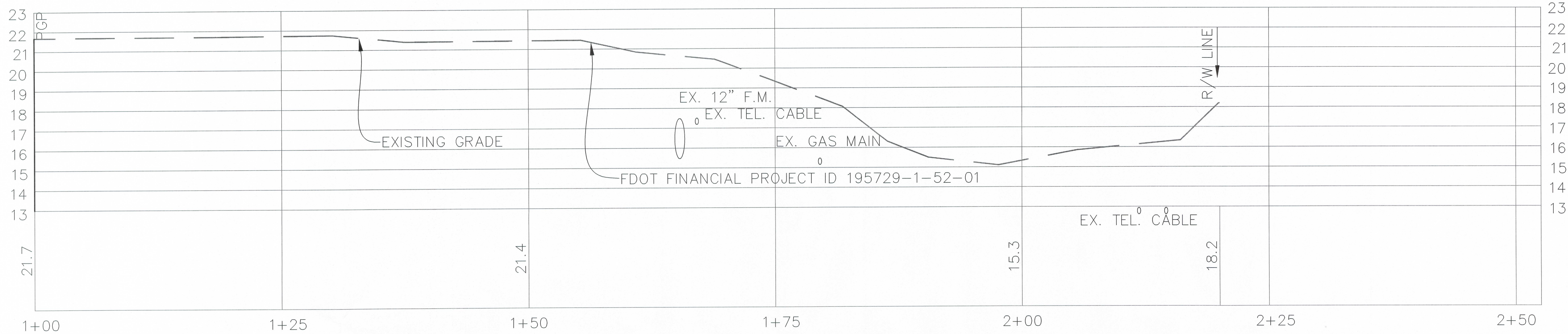


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JUL 23 2008
APPROVED

NOTE: HORIZONTAL UTILITY LOCATIONS WERE FIELD LOCATED.
VERTICAL LOCATIONS ASSUME 3' COVER APPROXIMATE.

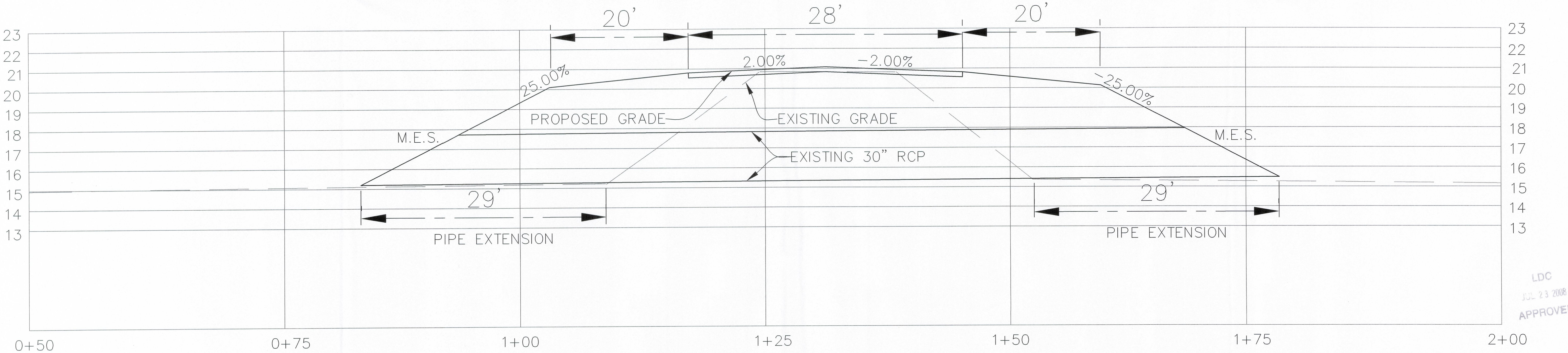
H: 1 inch = 5 ft.
V: 1 inch = 2.5 ft.

CROSS-SECTION @ STA. 220+00



H: 1 inch = 5 ft.
V: 1 inch = 2.5 ft.

CROSS-SECTION @ ACCESS DRIVE

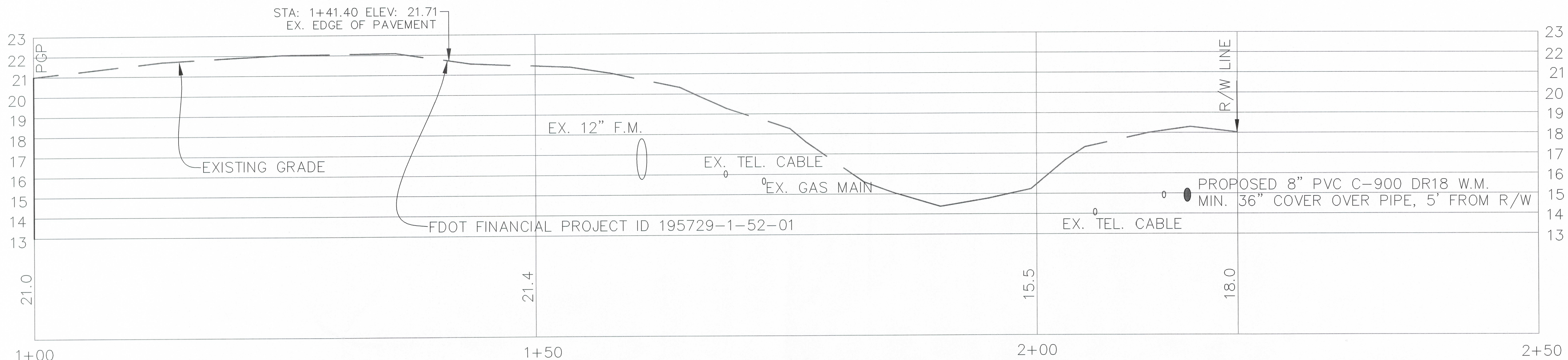


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JUL 23 2008
APPROVED

NOTE: HORIZONTAL UTILITY LOCATIONS WERE FIELD LOCATED.
VERTICAL LOCATIONS ASSUME 3' COVER APPROXIMATE.

H: 1 inch = 5 ft.
V: 1 inch = 2.5 ft.

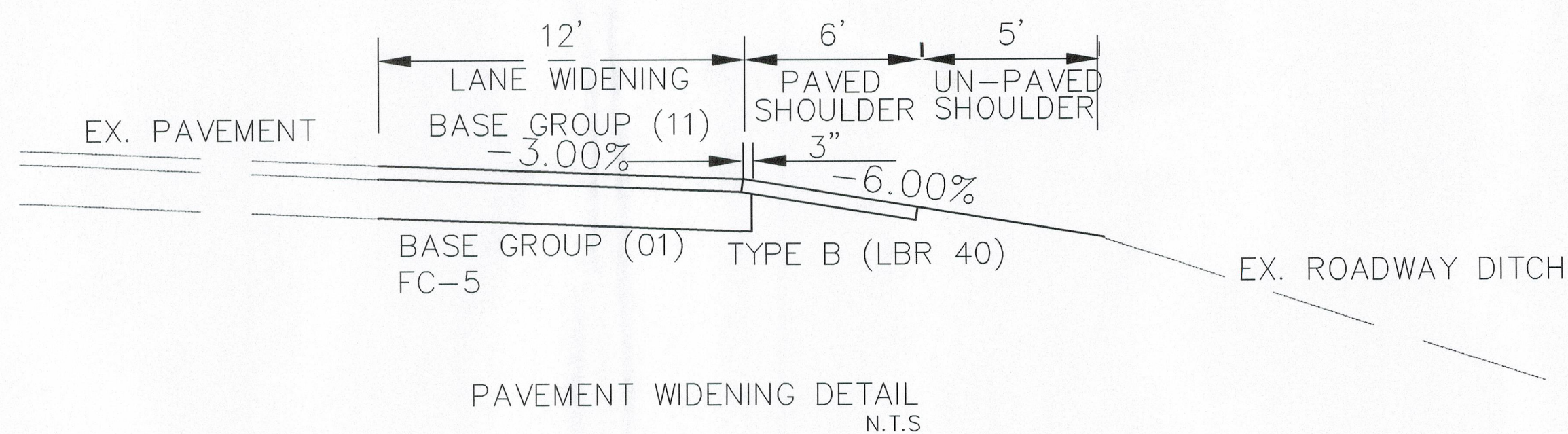
CROSS-SECTION @ STA. 223+00



NOTE: HORIZONTAL UTILITY LOCATIONS WERE FIELD LOCATED.
VERTICAL LOCATIONS ASSUME 3' COVER APPROXIMATE.

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST FDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION.

CROSS-SECTIONS ARE BASED ON SURVEY INFORMATION FOR US 41 FINANCIAL PROJECT ID 195729-1-52-01. THE CROSS-SECTION STATIONING IS THE CENTERLINE OF CONSTRUCTION. THESE CROSS-SECTIONS REPRESENT A PROPOSED RIGHT TURN LANE FOR A RIGHT IN AND RIGHT OUT ACCESS DRIVEWAY CONNECTION TO US 41 AT STA. 219+05.6. THE TYPICAL SECTION FOR THE TURN LANE AND ACCESS DRIVE SHALL MATCH THE FOLLOWING SPECIFICATIONS:
TURN LANE AND DRIVE SHALL USE OPTIONAL BASE GROUP (11) WITH TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (400 LBS/SY) WITH FRICTION COURSE FC-5 (80 LBS/SY) (RUBBER).
SHOULDER PAVEMET SHALL USE OPTIONAL BASE GROUP (01) WITH TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (100 LBS/SY) AND FRICTION COURSE FC-5 (80 LBS/SY) (RUBBER).
SUB-BASE MATERIAL SHALL BE TYPE B STABILIZATION WITH A LBR 40.
SOD ALL DISTRUBED AREAS WITHIN THE LIMITS OF THE TURN LANE AND DRIVEWAY CONSTRUCTION AREA.
CONTRACTOR SHALL USE FDOT INDEX NUMBER 600 AND 612 FOR TRAFFIC CONTROL THROUGH THE WORK ZONE.

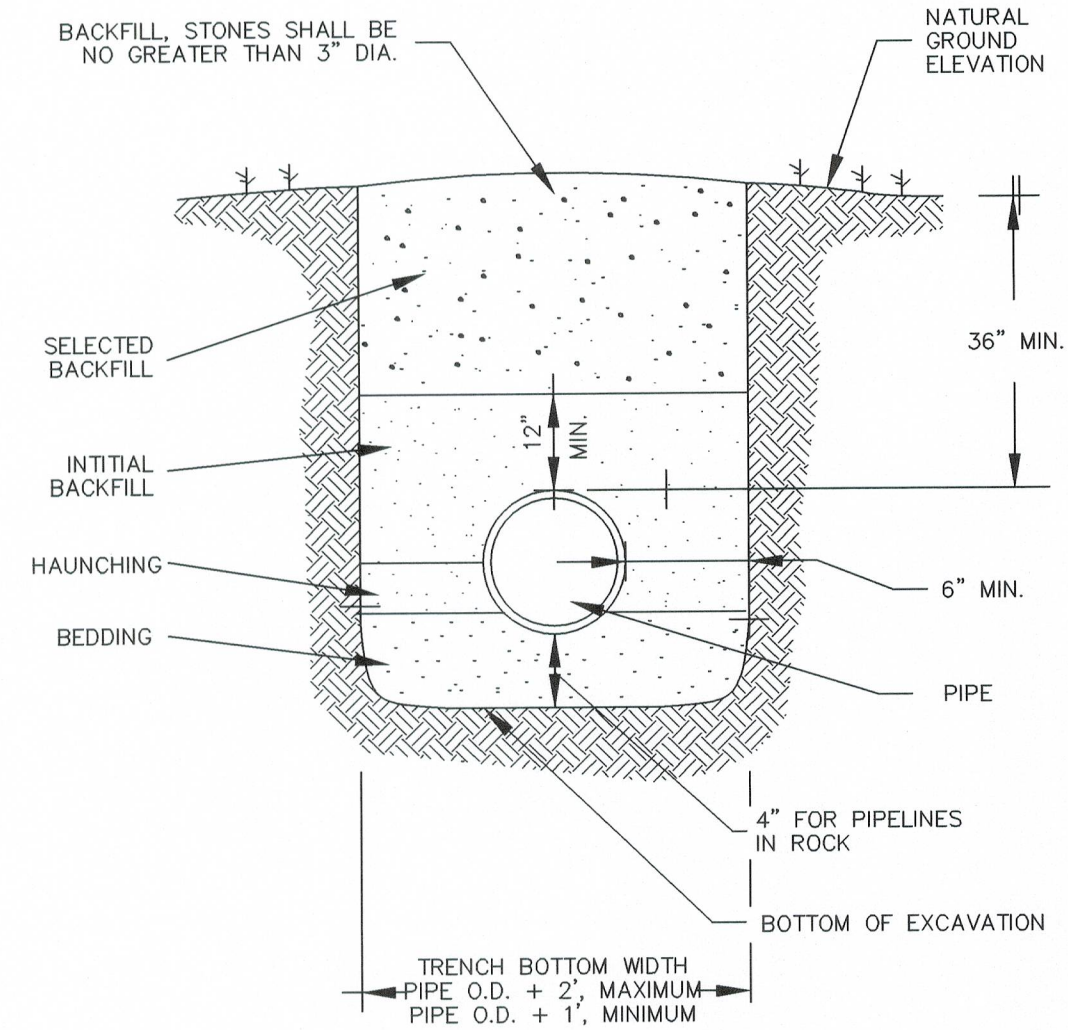


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JUL 23 2008
APPROVED

CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES HORIZONTAL AND VERTICAL LOCATION BEFORE START OF IMPROVEMENTS.

GENERAL CONSTRUCTION NOTES

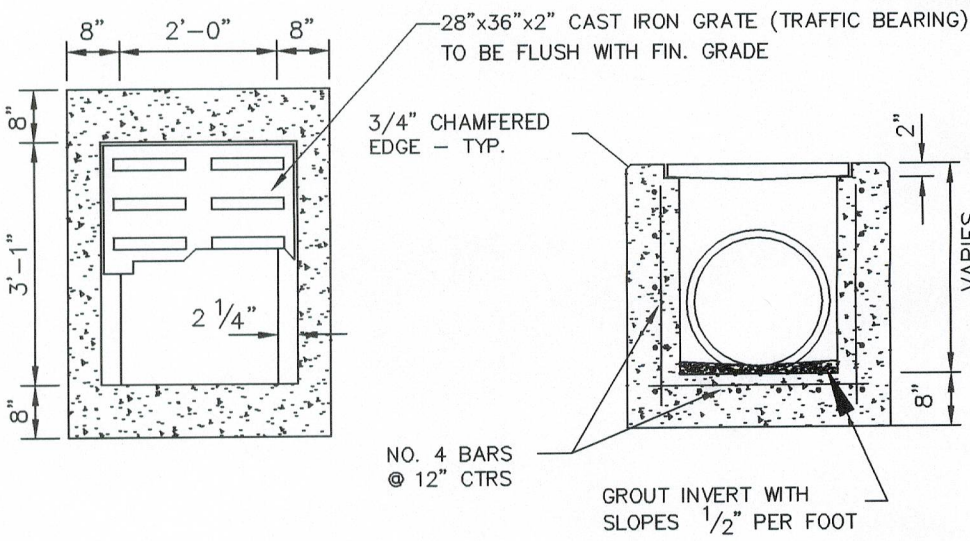
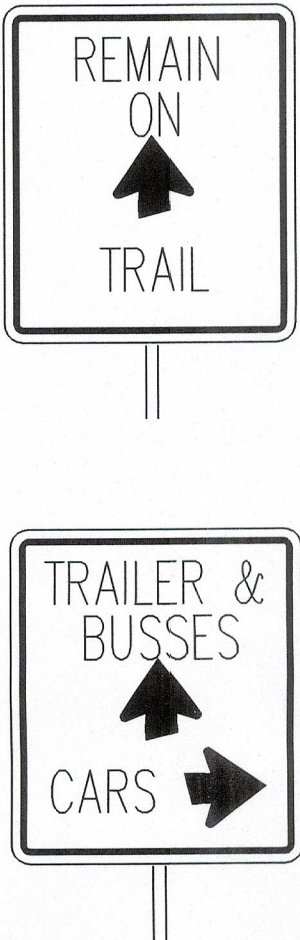
1. ALL ELEVATIONS REFER TO N.G.V.D. MEAN SEA LEVEL, 1929.
2. CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE, LOCATION AND DEPTH OF ALL EXISTING UTILITIES IN THE FIELD AND SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION ANY UTILITIES THAT ARE DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ANY DISCREPANCY NOT CALLED TO THE ENGINEER'S ATTENTION PRIOR TO ACCOMPLISHMENT OF THE WORK SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. ALL MATERIALS AND WORKMANSHIP UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF LEE COUNTY DOT AND CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE NOTED.
4. CONCRETE SIDEWALK: USE CLASS I, 3000 PSI (MINIMUM) CONCRETE APPLY A BROOM FINISH AND MAKE VERTICAL SAW CUTS AT 5' ON CENTER AT A DEPTH OF 1/4 OF THE SLAB THICKNESS PROVIDE PRE-FORMED EXPANSION JOINTS AT 100' ON CENTER.
5. ALL HANDICAP SPACES, RAMPS, AND ACCESS AREA'S SHALL COMPLY IN STRICT ACCORDANCE WITH THE "AMERICAN DISABILITY ACT" (ADA) (28 CFR PART 36), AND "ACCESSIBILITY BY HANDICAPPED PERSONS" CHAPTER 553, PART V, FLORIDA STATUTES. ANY DISCREPANCY SHALL BE CALLED TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION.
6. PAVEMENT MARKINGS AND SIGNS SHALL BE IN STRICT ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND FDOT STANDARD INDEX #17346.
8. WATER AND SEWER SERVICES SHALL CONFORM TO THE FLORIDA PLUMBING CODE.
9. CLEAN-OUTS SHALL BE LOCATED A MINIMUM OF 5 FEET OFF FACE OF BUILDING, AND MATCH FINISH GRADE UNLESS OTHERWISE INDICATED.
10. WATER PIPE 2" AND SMALLER TO BE POLYVINYL CHLORIDE (PVC) AND SHALL CONFORM TO ASTM D-1785, PVC CLASS 1220 SCHEDULE 40, 30 INCH MINIMUM COVER. WATER PIPE GREATER THAN 2 INCHES, UP TO AND INCLUDING 10 INCHES IN DIAMETER SHALL BE AWWA C-900, CLASS 150, DR18, MINIMUM 30" INCHES MINIMUM COVER.
11. GRAVITY SEWER PIPE 4" IN DIAMETER AND GREATER SHALL BE PVC AND SHALL CONFORM TO ASTM D-3034, SDR 26; 3 FOOT MINIMUM COVER, UNLESS OTHERWISE SHOWN.
12. PARKING LOT LAYOUT BEARINGS SHALL BE PERPENDICULAR AND PARALLELL WITH THE ROADWAY CENTERLINE AS SHOWN ON THE SITE PLAN.
13. ELECTRICAL SITE LIGHTING PLANS FOR LIGHTING LOCATIONS BY OTHERS.
14. ALL PARKING LOT DIMENSIONS ARE LABELED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN ON THE PLANS.
15. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION, F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL TRANSPORTATION ENGINEERING DESIGN STANDARDS.
16. PAVEMENT MARKINGS SHALL BE PERMANENT THERMOPLASTIC REFLECTIVE TRAFFIC PAINT WITH GLASS BEADS IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATION SECTION 710. PARKING STALL STRIPS SHALL BE PERMANENT REFLECTIVE TRAFFIC PAINT ONLY.
17. ALL MITERED END SECTIONS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION, INDEX NUMBER 272.
18. ALL ENDWALLS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION, INDEX NUMBER 250.
19. ALL DISTURBED AREAS WITHIN THE PROJECT SITE AND CITY RIGHT-OF-WAY SHALL BE REGRADED AS REQUIRED AND STABILIZED WITH SOD. LOT FILL AREAS SHALL BE SEEDED AND MULCHED.
20. THE CONTRACTOR SHALL ADJUST (AS REQUIRED) PIPELINE ALIGMENTS HORIZONTALLY AND/OR VERTICALLY TO AVOID CONFLICTS WITH ACTURAL FIELD CONDITIONS AS UNCOVERED DURING CONSTRUCTION.
21. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP EXCAVATIONS DRY AND SHALL PROVIDE ALL SHORING, SHEETING, AND BRACING NECESSARY TO PROTECT WORKMEN, ADJACENT STRUCTURES, UTILITIES, EXISTING PAVEMENT AND TO MINIMIZE TRENCH SIZE.
22. HORIZONTAL ALIGNMENTS OF EXISTING UTILITIES AS SHOWN WERE FROM BEST AVAILABLE RECORDS AND SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THESE UTILITIES WITHIN THE WORK AREA.
23. DISINFECTION AND RESAMPLING WILL BE REQUIRED WHEN AND EXISTING POTABLE WATER MAIN OR SERVICE IS DISTURBED AND THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.



NOTE:

1. BEDDING AND BACKFILL WITH SELECTED MATERIALS TO BE PLACED AND COMPACTED IN 6" LIFTS, UTILIZING METHODS AND EQUIPMENT APPROVED BY ENGINEER.
2. WHERE BACKFILL IS PLACED BELOW THE WATER LEVEL IN THE TRENCH, THE BACKFILL MATERIAL SHALL BE CAREFULLY AND UNIFORMLY RAMMED AROUND BOTH SIDES OF THE PIPE TO PROPERLY BED AND SUPPORT THE PIPE. NO SPECIFIC DENSITY REQUIRED UNTIL THE FILL HAS REACHED A LEVEL SIX INCHES ABOVE WATER TABLE AT WHICH ELEVATION AND ABOVE ALL BACKFILL SHALL BE COMPACTED AS SPECIFIED.

PVC PIPE TRENCHING, BEDDING, AND BACKFILL DETAIL



PLAN

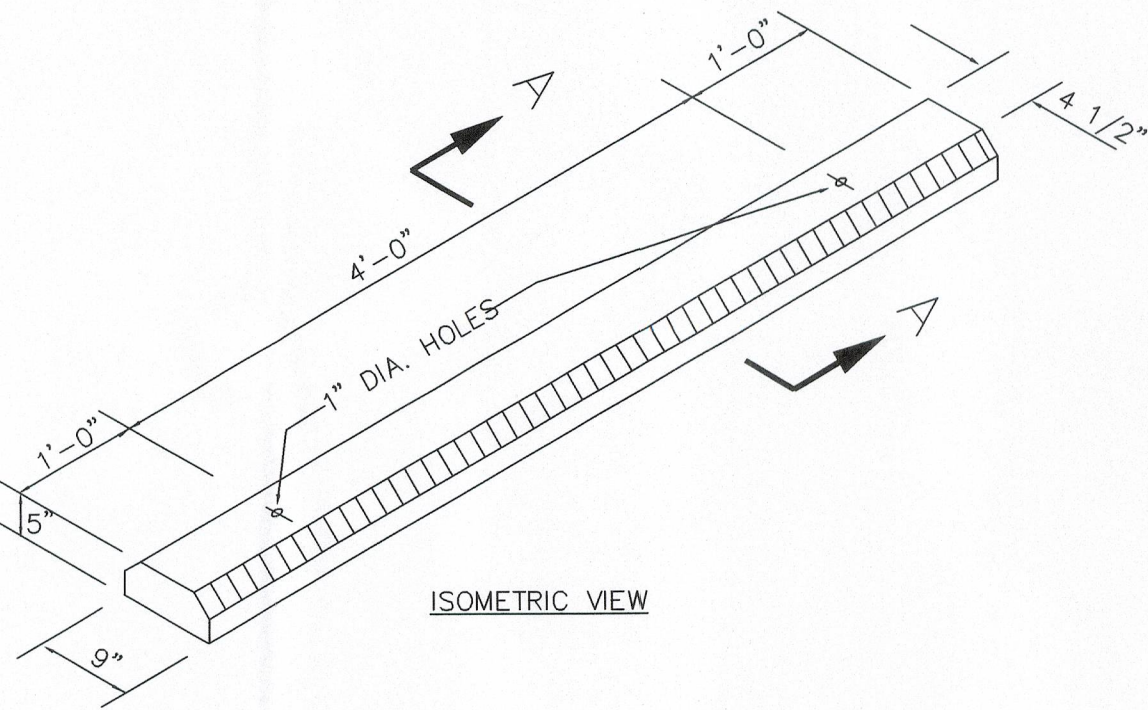
SECTION

TOP SLAB SHALL BE REINFORCED WITH NO. 5 BARS @ 8" O.C. EACH WAY AND SHALL BE 8" THICK. CONCRETE - 4000 PSI, TYPE II STEEL - GRADE 60

CONTRACTOR SHALL CUT ALL PIPES FLUSH WITH INSIDE FACE OF BOX. TYPICAL ALL INLETS ON THE PROJECT

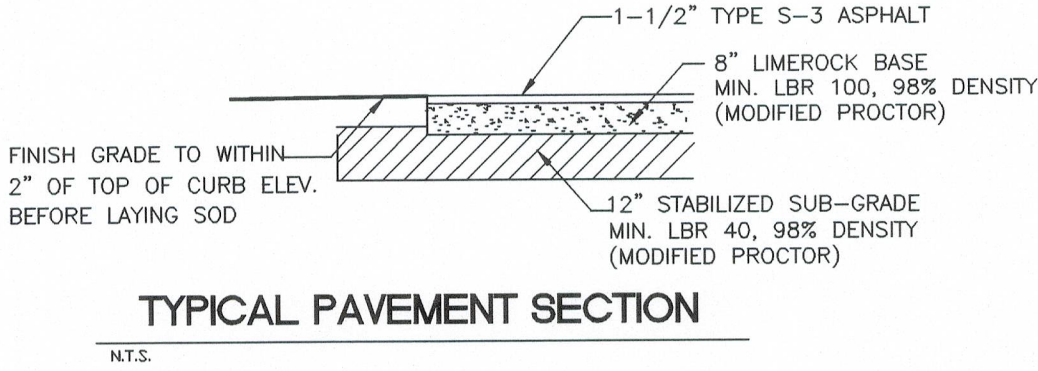
TYPE "C" INLET

RECOMMENDED MAXIMUM PIPE SIZE:
2'-0" WALL - 18" PIPE
3'-1" WALL - 24" PIPE



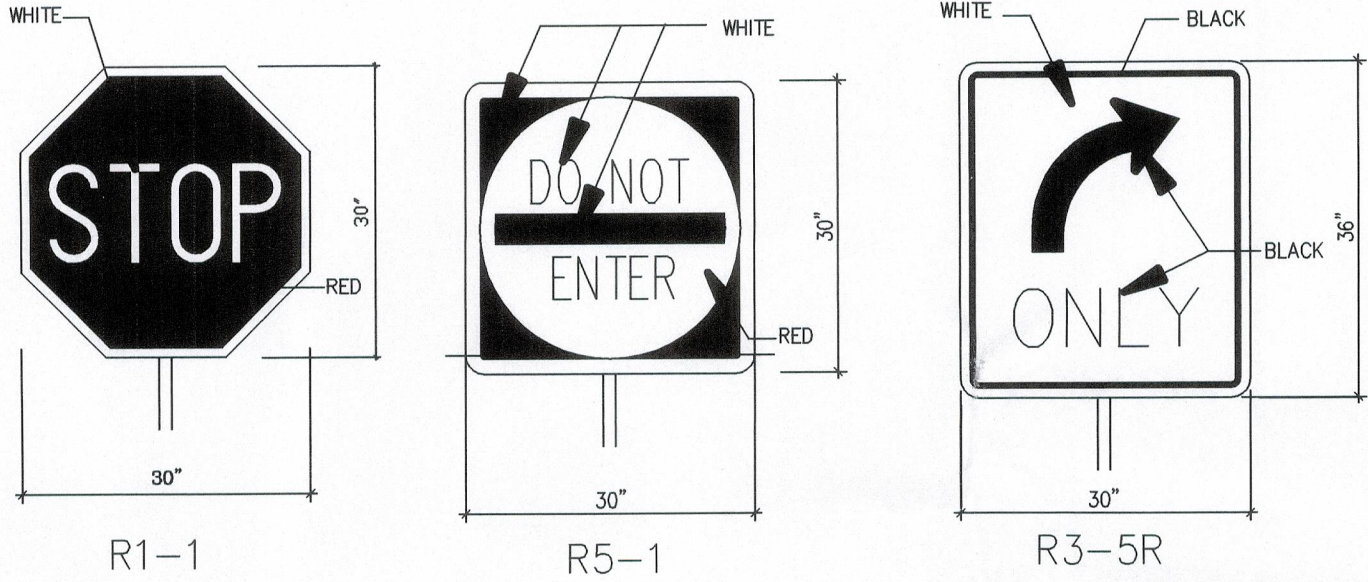
PRECAST CONCRETE WHEEL STOP DETAIL

N.T.S.



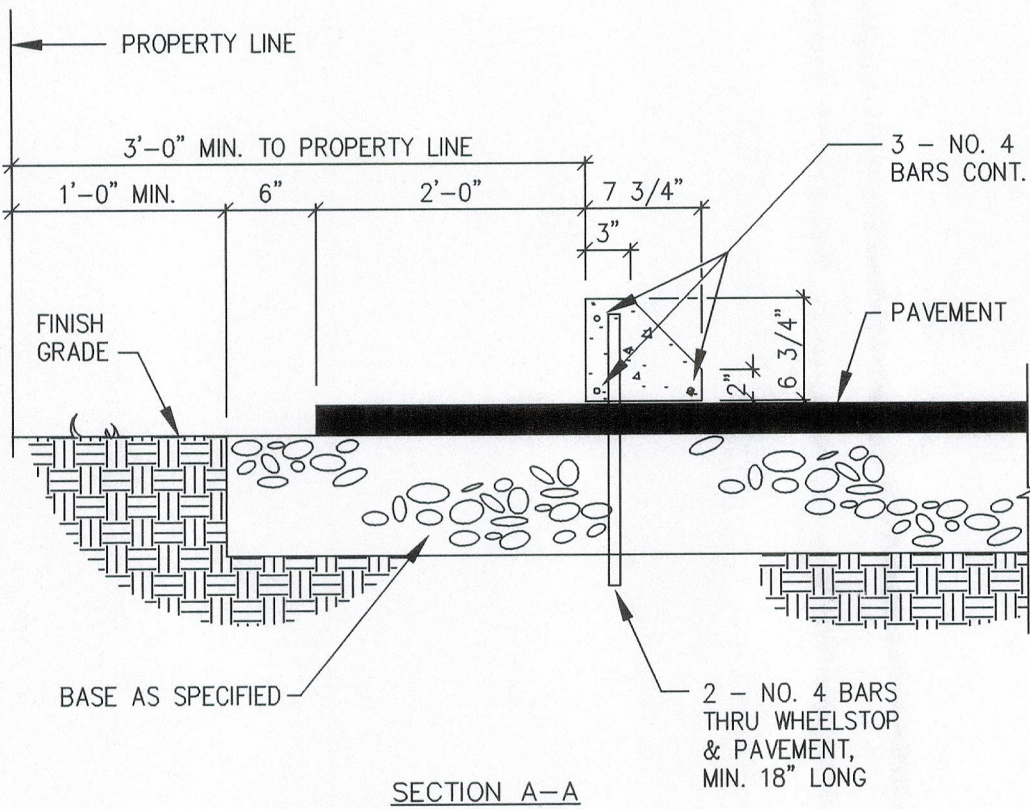
TYPICAL PAVEMENT SECTION

N.T.S.



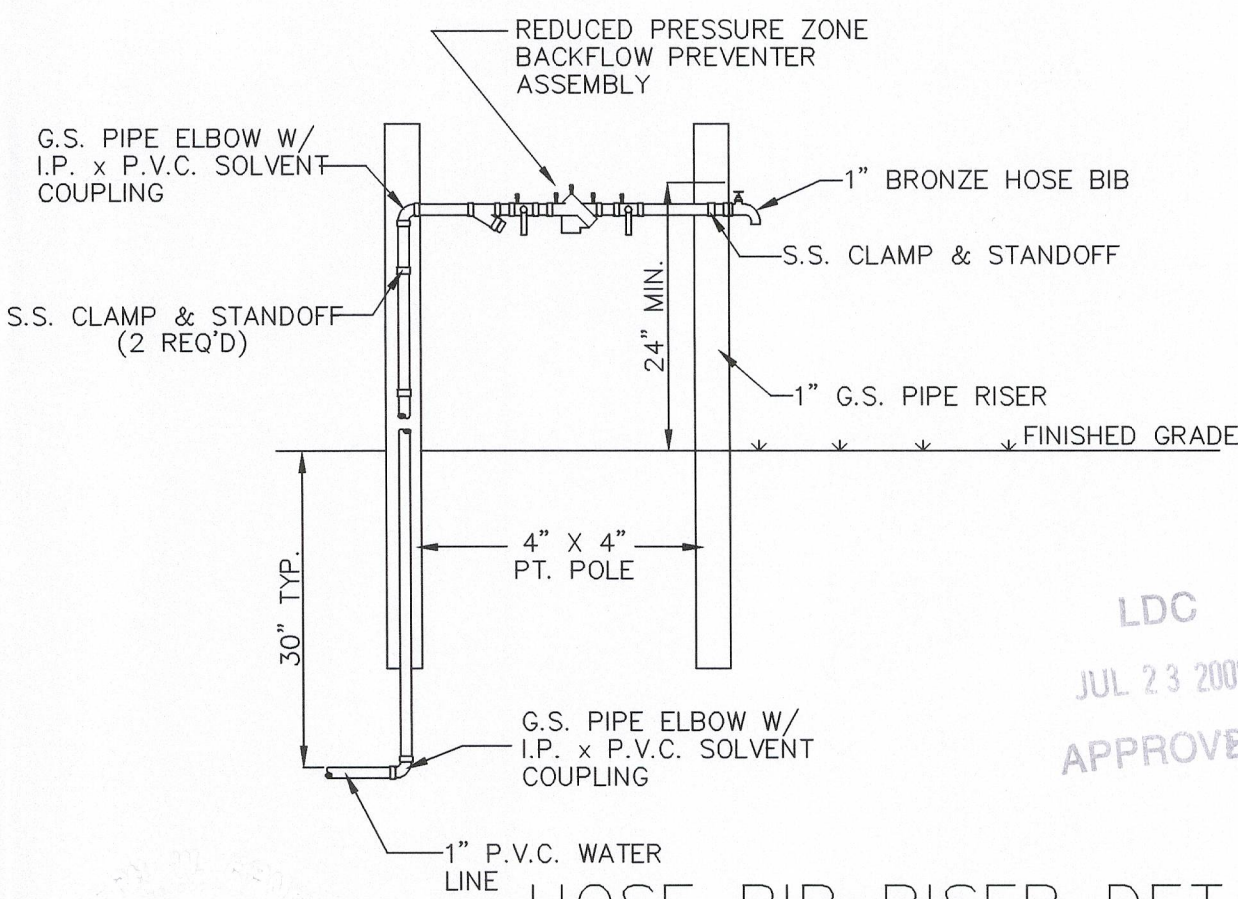
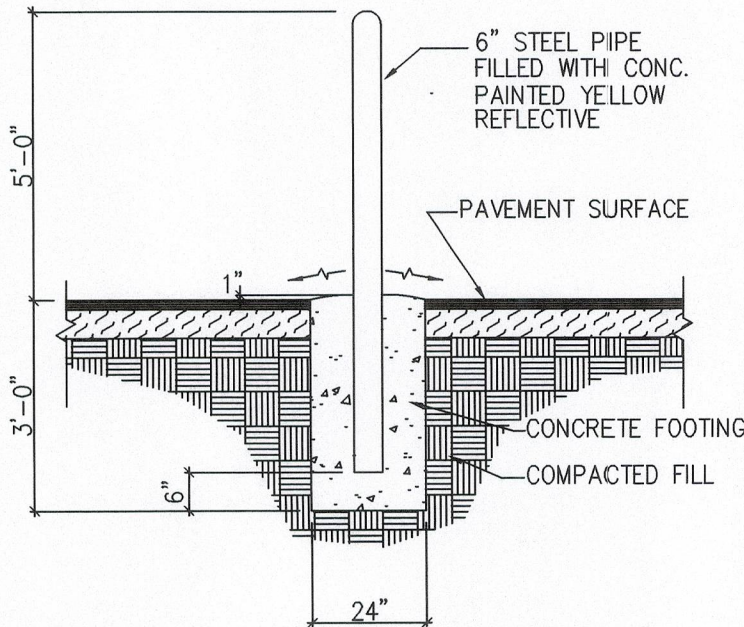
STANDARD F.D.O.T. SIGNAGE DETAILS

N.T.S.



GUARD POST (BOLLARD)

N.T.S.



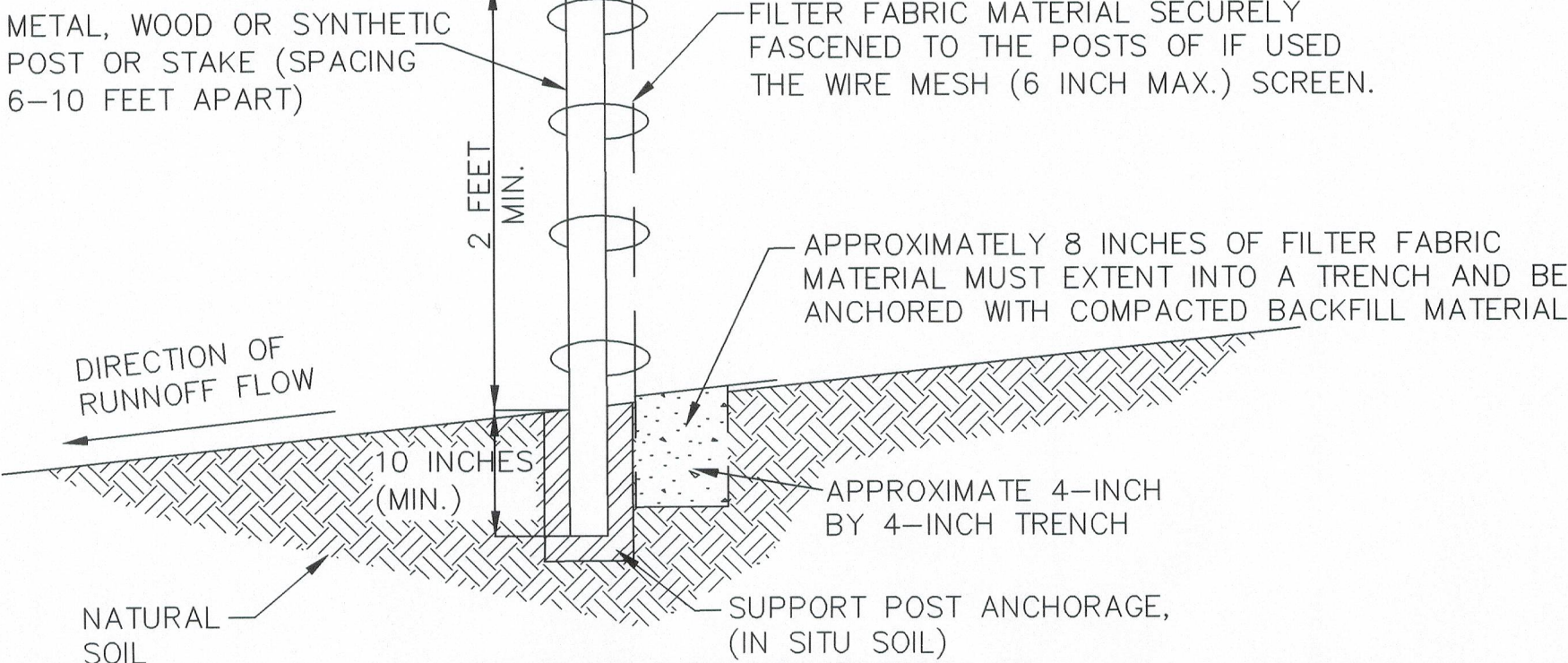
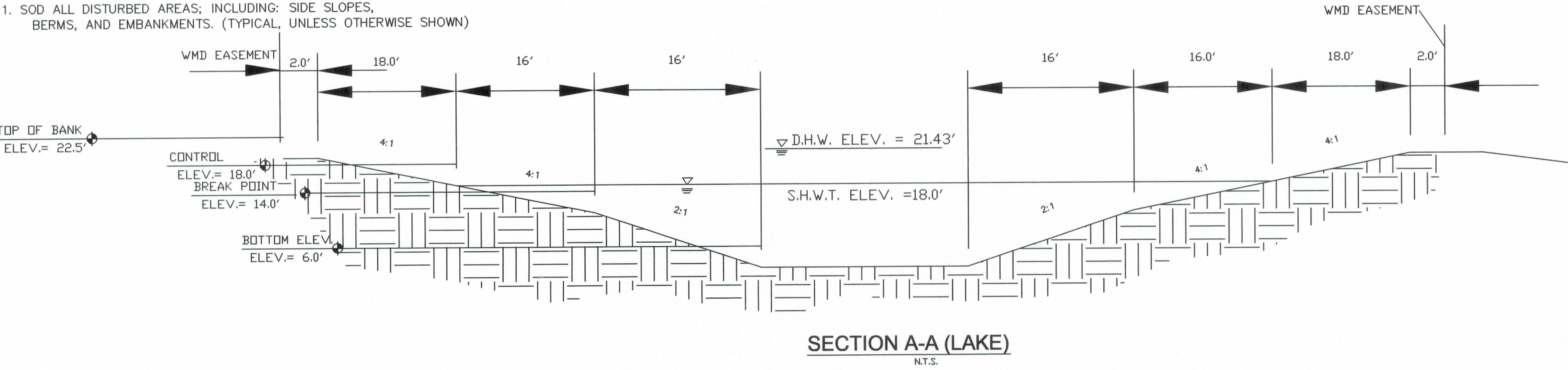
HOSE BIB RISER DETAIL

N.T.S.

SCALE: AS SHOWN	JOSEPH W. EBNER, P.E. FL. REG. # 19359 NOT VALID UNLESS SIGNED & EMBOSSED SEALED	LEE COUNTY P.O. BOX 398, FORT MYERS, FL 33902-0398 (239) 489-1814 FAX (239) 489-1816	6/6/06	PERMIT REVIEW SET			J.W. EBNER CONSULTING, INC. 2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904 (239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM	PRAIRIE PINES PRESERVE	PROJECT NO.: 06-113-01
DATE: JULY 2007								DETAIL SHEET	SHEET NO.: D-1

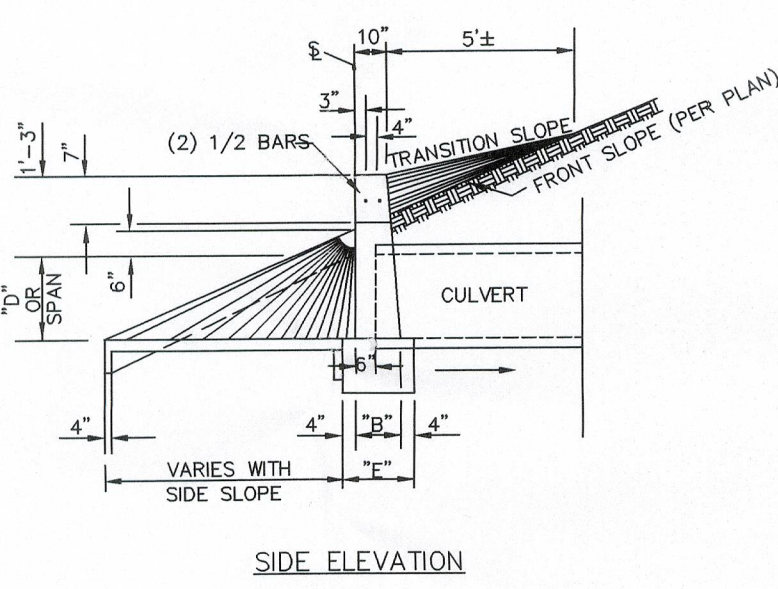
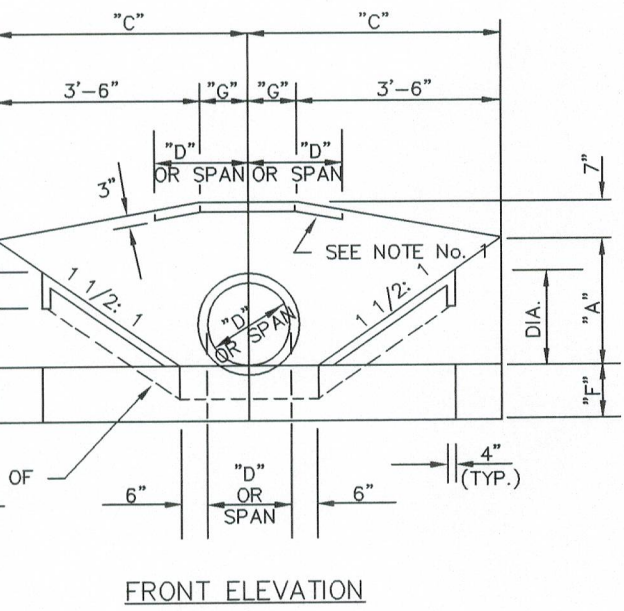
NOTES

1. SOD ALL DISTURBED AREAS; INCLUDING: SIDE SLOPES, BERMS, AND EMBANKMENTS. (TYPICAL, UNLESS OTHERWISE SHOWN)



POST (OPTIONS: 2"x4" OR 2-1/2" MIN. DIA. WOOD; STEEL 1.33 LBS/FT. MIN.) 6" CENTERS MAXIMUM

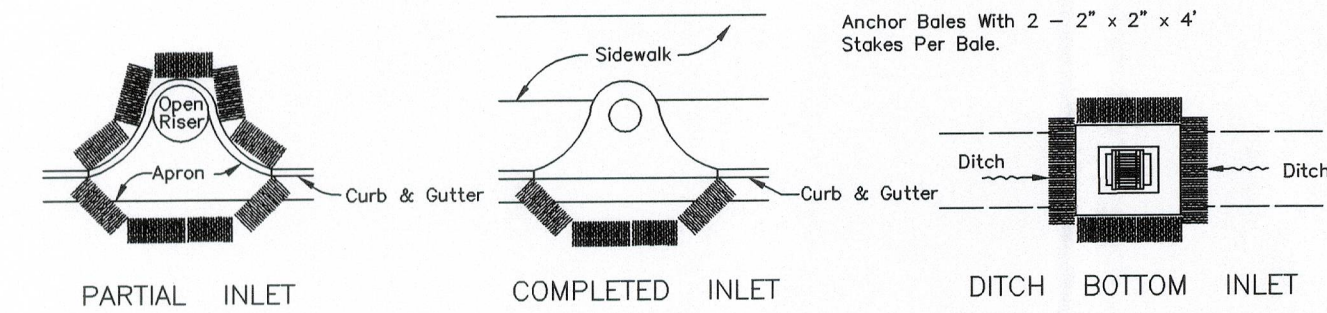
GEOTEXTILE CRITERIA
GRAB TENSILE STRENGTH 90 LBS.
TRAPEZOIDAL TEAR 35 LBS.
MULLEN BURST 180 P.S.I.
SEE FDOT INDEX No. 199



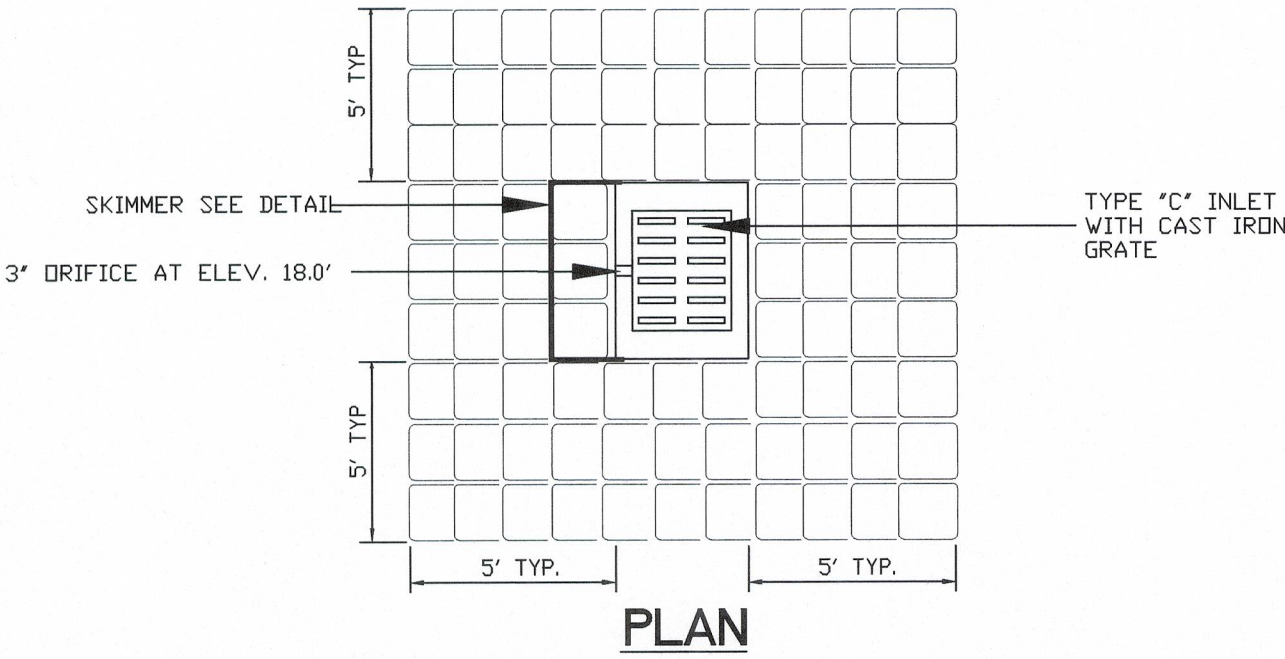
- GENERAL NOTES
1. REINFORCING STEEL GRADE 400R 60.
 2. SUBSTITUTE SPAN AND RISE FOR "D" WHERE APPLICABLE.
 3. SEE PLAN FOR LOCATION OF STRUCTURES.
 4. STRUCTURES TO BE CONSTRUCTED BY EITHER A MONOLITHIC POUR OR #4 DOWELS AT 12" CENTERS POSITIONED 2" FROM INSIDE OF VERTICAL WALL.
 5. CONCRETE SHALL BE 3000P.S.I.

ROUND PIPE CULVERT ENDWALLS												
DIMENSIONS												
D	A	B	C	E	F	G	S	O	15'	30'	45'	
15"	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	2'-7"	2'-7"	2'-8"	3'-0"	3'-8"	
18"	2'-2"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	
24"	2'-8"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	
30"	3'-2"	1'-6"	6'-6"	2'-2"	1'-6"	3'-0"	4'-3"	4'-3"	4'-5"	4'-11"	6'-0"	

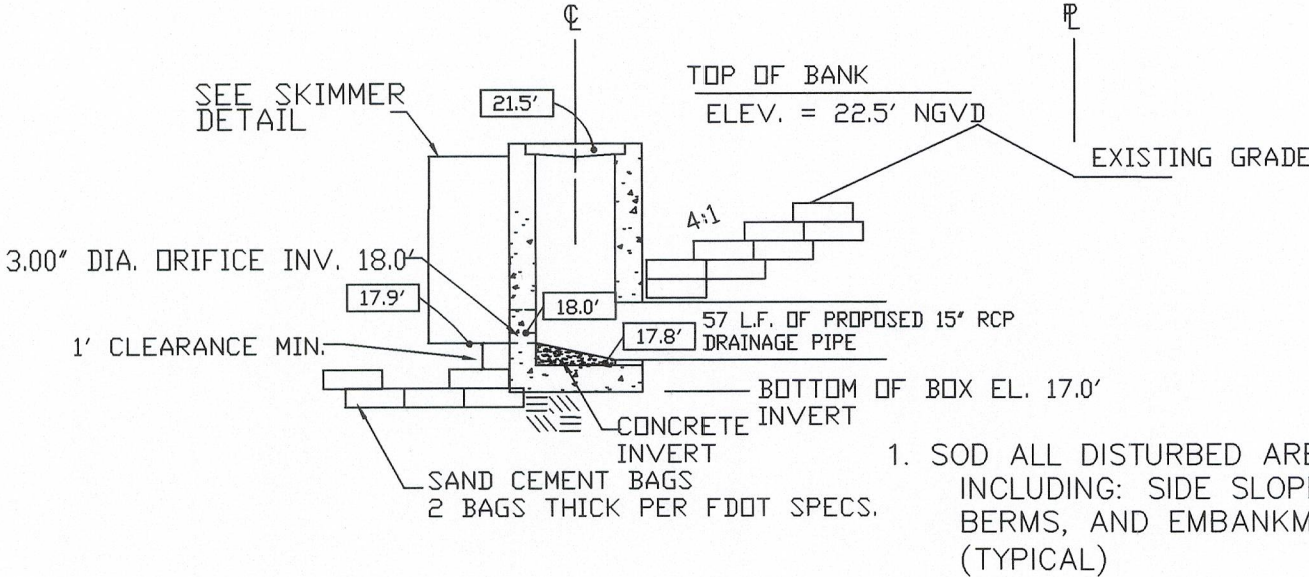
CONCRETE ENDWALL



HAY BALE LOCATION

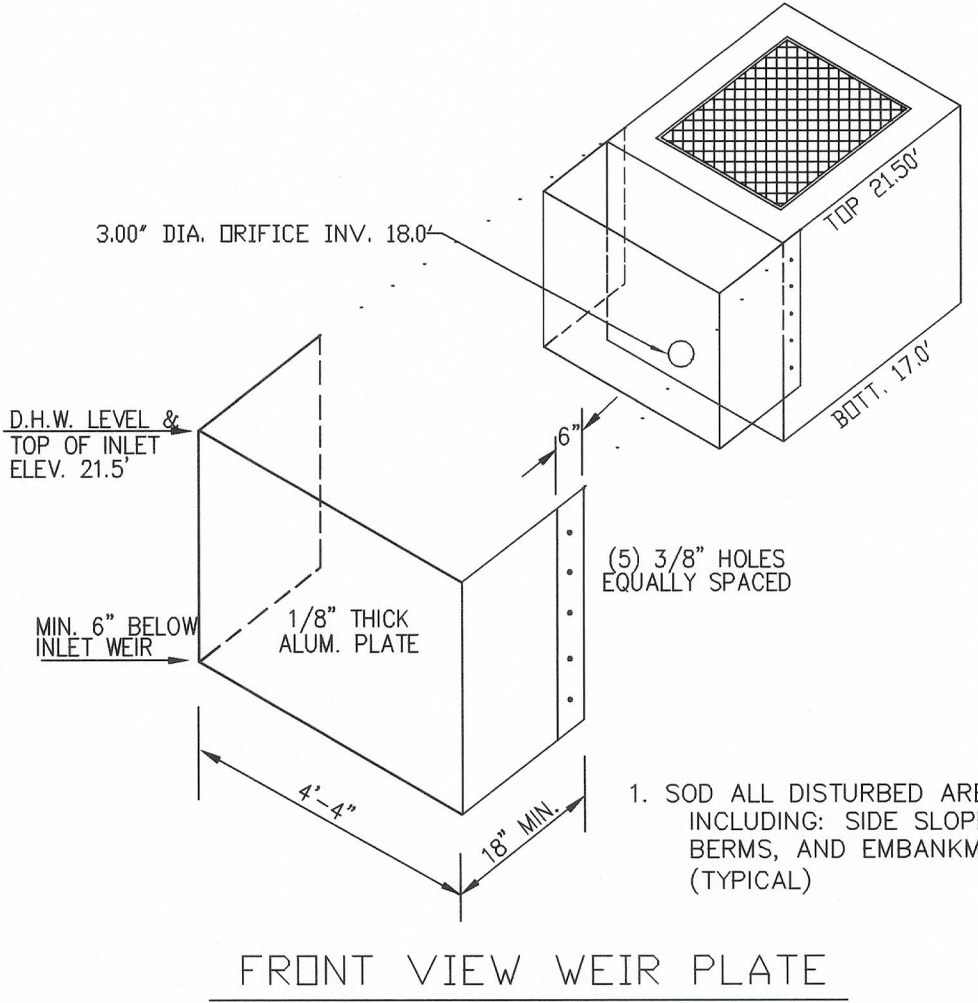


PLAN

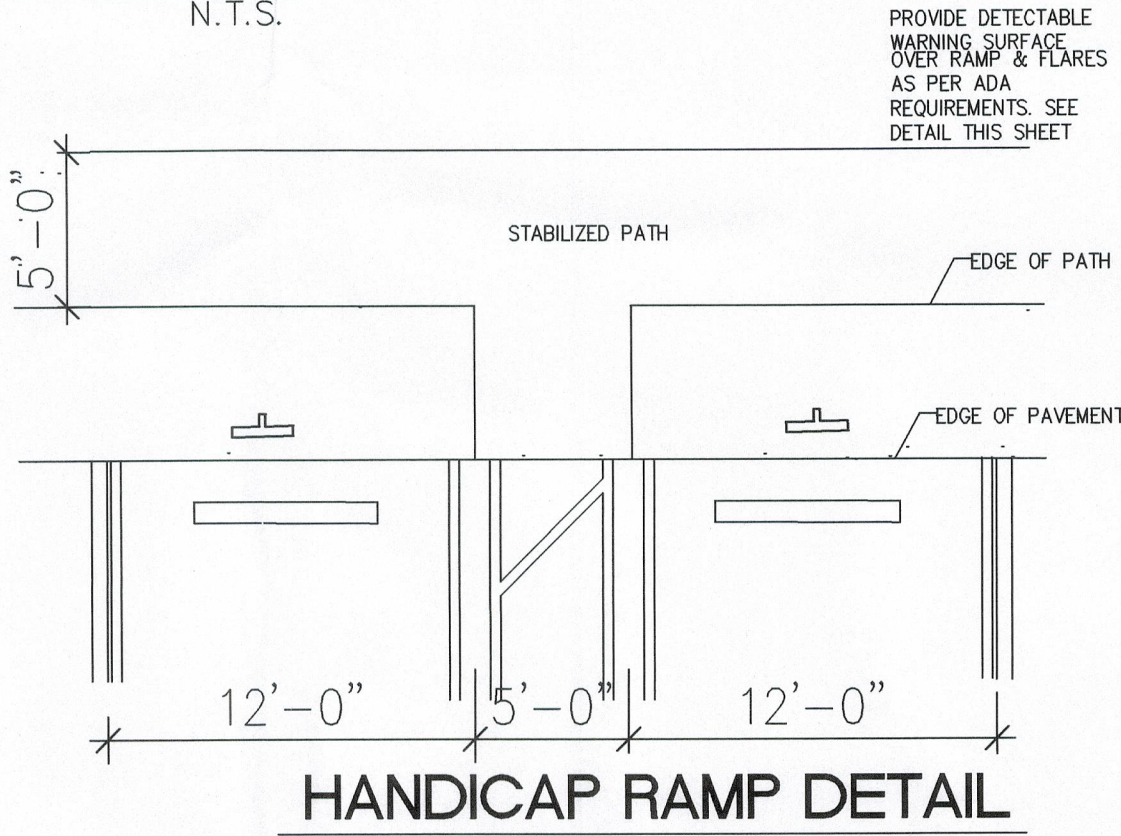


SECTION

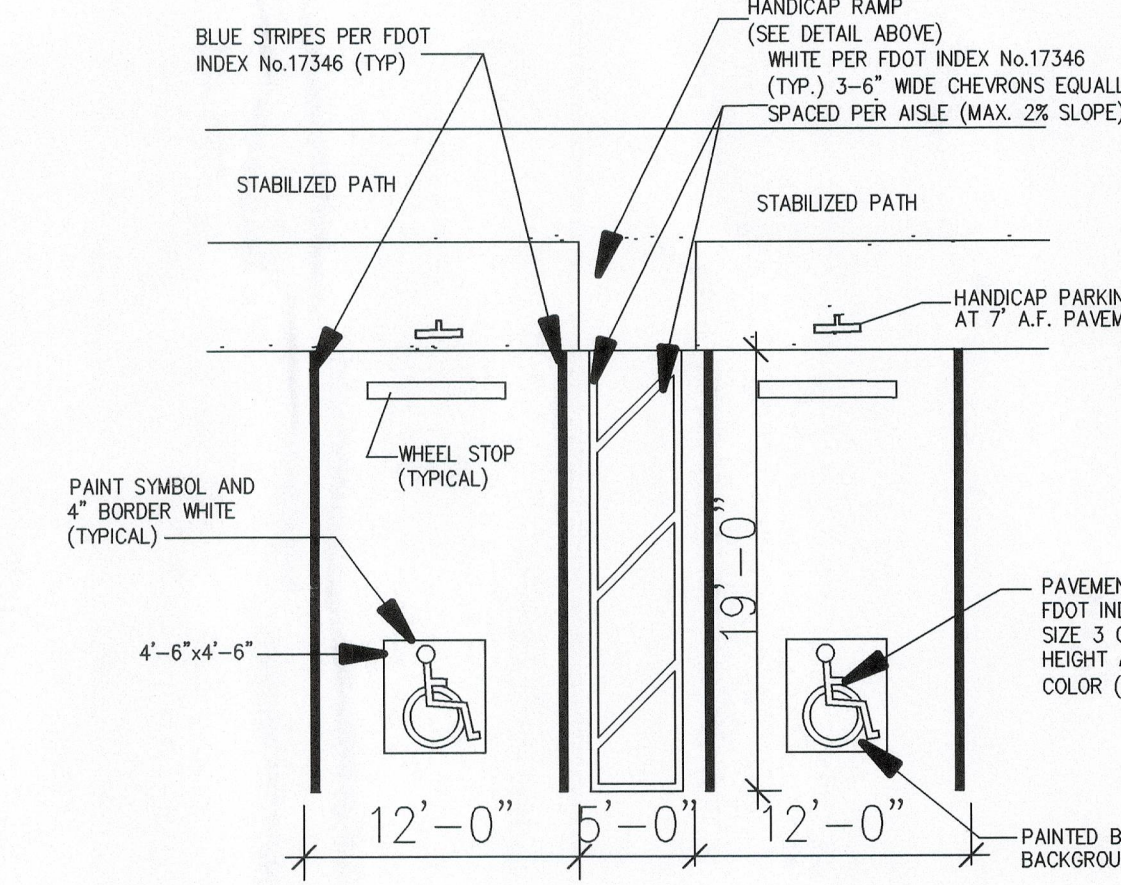
CONTROL STRUCTURE DETAIL C-1



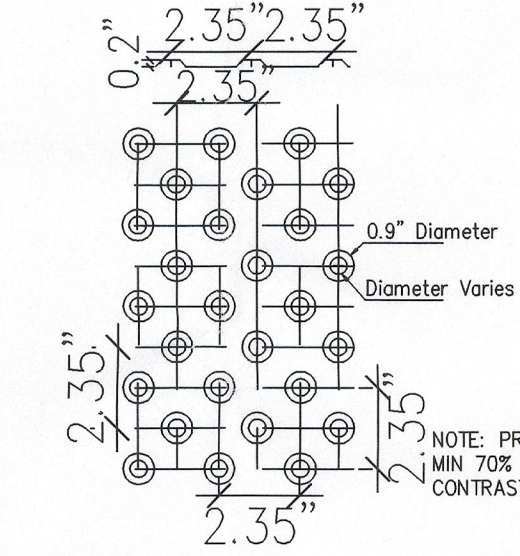
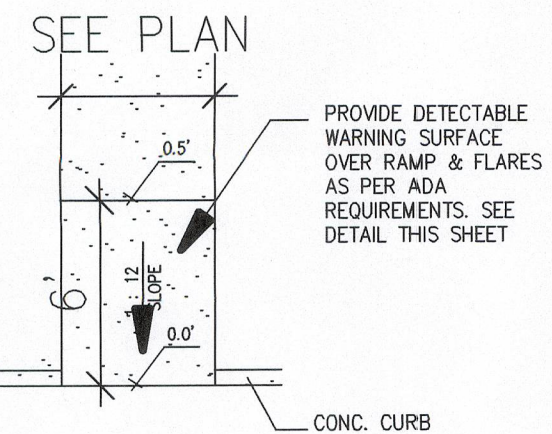
FRONT VIEW WEIR PLATE



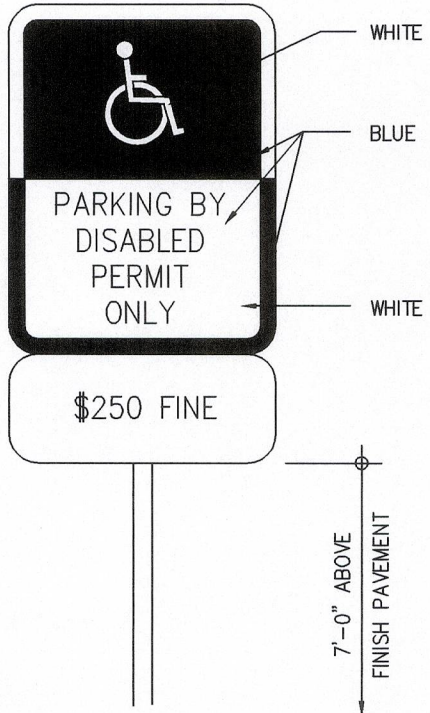
HANDICAP RAMP DETAIL



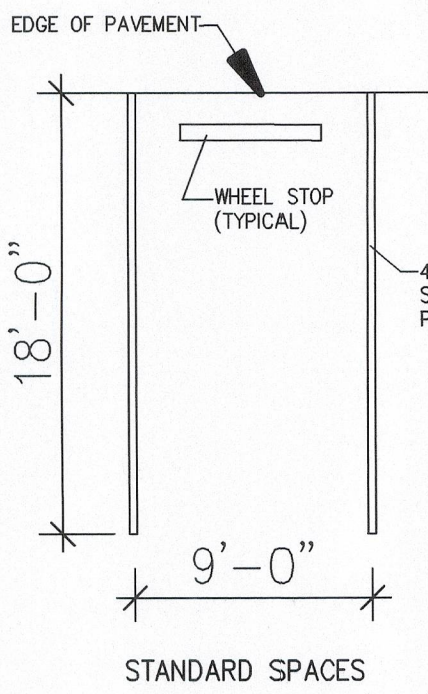
TYPICAL STRIPING DETAIL



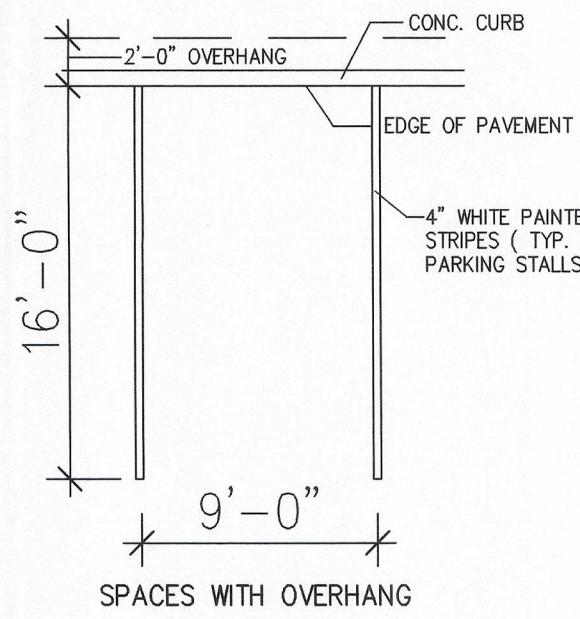
DETECTABLE WARNING SURFACE DETAIL



HANDICAP PARKING SIGN DETAIL



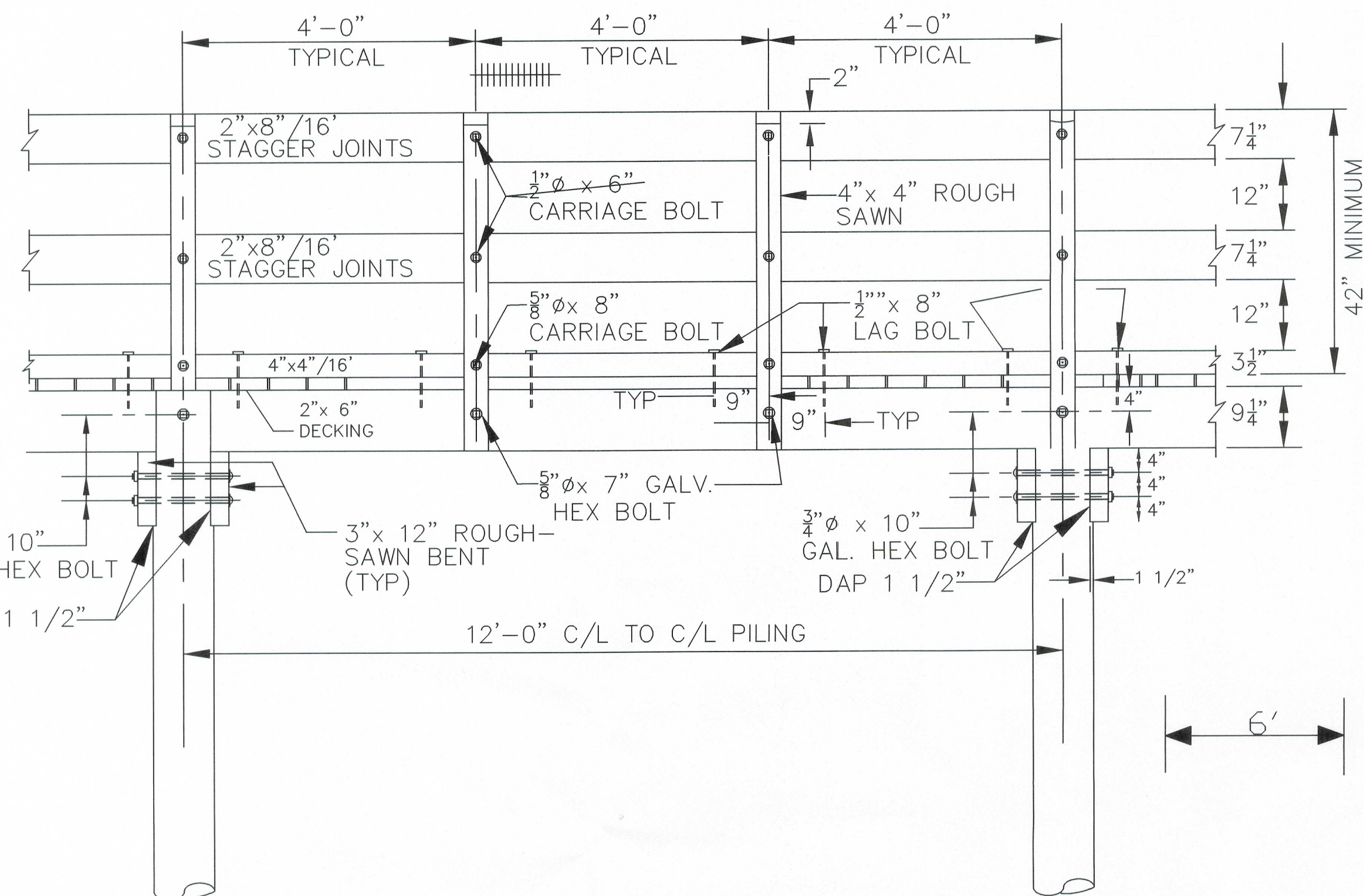
STANDARD SPACES



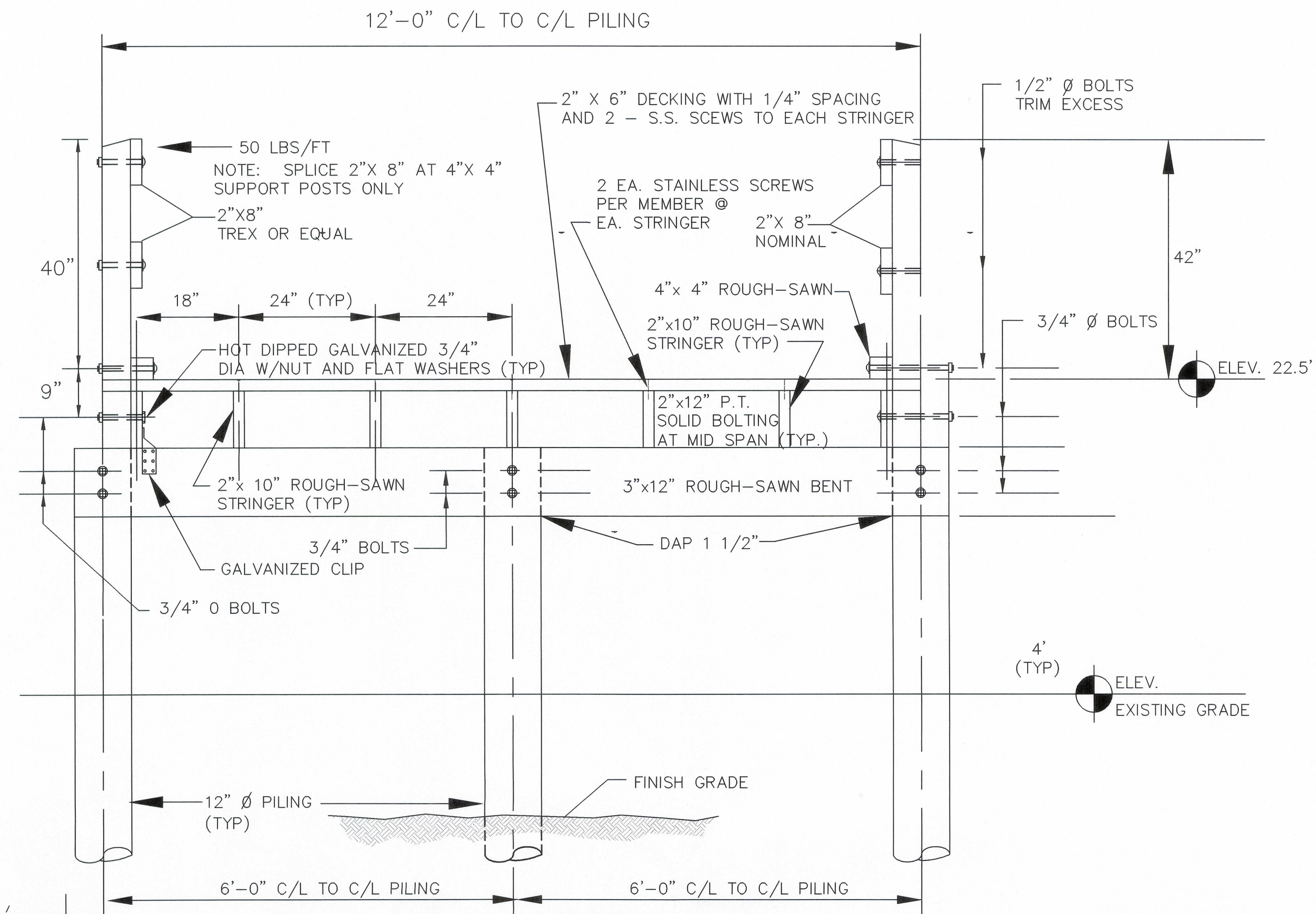
SPACES WITH OVERHANG

LDC
JUL 23 2008
APPROVED

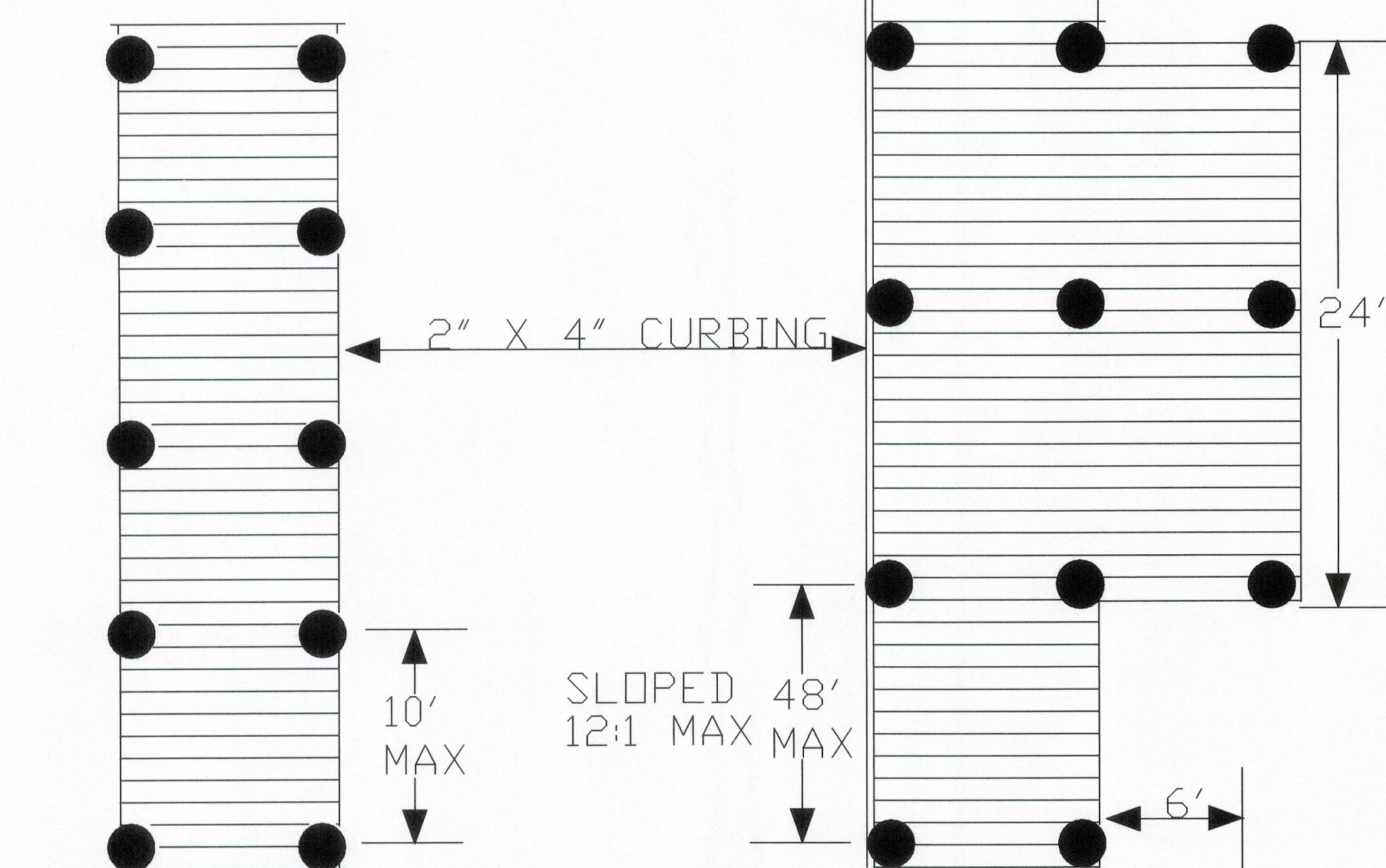
SCALE: AS SHOWN	JOSEPH W. EBNER, P.E.	LEE COUNTY	6/6/06	PERMIT REVIEW SET		J.W. EBNER CONSULTING, INC.	PRAIRIE PINES PRESERVE	PROJECT NO.: 06-113-01
DATE: JULY 2007	FL. REG. # 19359	P.O. BOX 398, FORT MYERS, FL 33902-0398				2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904	DETAIL SHEET	SHEET NO.: D-2
	NOT VALID UNLESS SIGNED & EMBOSSED SEALED	(239) 489-1814 FAX (239) 489-1816				(239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM		



NTS



NTS



TYPICAL ELEVATED
WALKWAY WITH
OBSERVATION AREA
PLAN VIEW NTS

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JUL 23 2008
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A

GENERAL

1. ELEVATIONS SHOWN REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.)
2. ALIGNMENT STAKE-OUT BY CONTRACTOR.
3. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. BRING ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.
4. EXISTING ELEVATIONS, GRADES, AND SURROUNDINGS WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH CURRENT SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
5. ANY PART OF WALKWAY THAT EXCEEDS 30" SHALL HAVE A HAND RAIL.
6. ALL HANDRAIL ENDS SHALL HAVE 2"x8" PLASTIC FACIA INSTALLED.
7. ALL SHARP EDGES TO BE ROUNDED.
8. USE 3" SCAB TO CONNECT ALL STRINGERS (MIN. 24")
9. CONTRACTOR TO REVIEW AND COMPLY WITH SFWMD & FDEP PERMIT. ANY CONFLICT BETWEEN THESE PLANS & PERMIT REQUIREMENTS WILL BE RESOLVED IN FAVOR OF SFWMD & FDEP REQUIREMENTS.

B. PILINGS

1. AUGER, VIBRATE, OR JET ALL PILES TO HAVE A MINIMUM PENETRATION DEPTH OF 6'-0" FOR TYPICAL WALKWAY & 10' FOR ELEVATED OBSERVATION DECK. PENETRATION DEPTH REQUIREMENT WILL BE WAIVED IF ROCK LAYER IS ENCOUNTERED. END PILE ON TOP OF ROCK LAYER.
2. PILES: SOUTHERN PINE PER ASTM D25:
3. 8" PILES BE SPACED ON 12' CENTERS.
4. PRESSURE TREAT PILES IN COMPLIANCE W/ FULL-CELL PROCESS PER AWPA STANDARD C3 AND C18 WITH MINIMUM CHROMATED COPPER ARSENATE TYPE C (CCA) RETENTION OF 2.5 LBS/ CF. OR APPROVED EQUAL.

5. RETREAT ALL BOLT HOLES AND CUT PILES WITH PRESERVATIVES PER AWP A M4.
 6. PROVIDE PILES STAMPED BY S.P.I.B. OR OTHER APPROVED INSPECTION AGENCY.
- SPLIT CAPS, BENTS, STRINGERS AND DECKING
1. LUMBER: SOUTHERN PINE NO.1, KILN DRIED AFTER TREATMENT (MC 19%) AND SHALL BE STAMPED BY S.P.I.B. OR OTHER APPROVED INSPECTION AGENCY.
 2. PRESSURE TREAT ALL LUMBER PER AWP A STANDARD C18, SEE LUMBER TABLE BELOW FOR A MINIMUM CCA RETENTION OR EQUAL.
 3. RETREAT ALL CUTS AND HOLES WITH PRESERVATIVES PER AWP A M4.
 4. RAILINGS & SUPPORT BLOCKS: 2"x4" "PLASTIC" (TREX OR EQUAL) (1 1/2" X 5 1/2") UNLESS NOTED OTHERWISE. COLOR: GREY
 5. 2"x8" DECKING "PLASTIC" (1 1/2" MIN. X 7 1/4") McEWEN LUMBER, (813) 248-4111 OR EQUAL PROVIDE 1/8" SPACING BETWEEN DECK BOARDS

D. FASTENERS

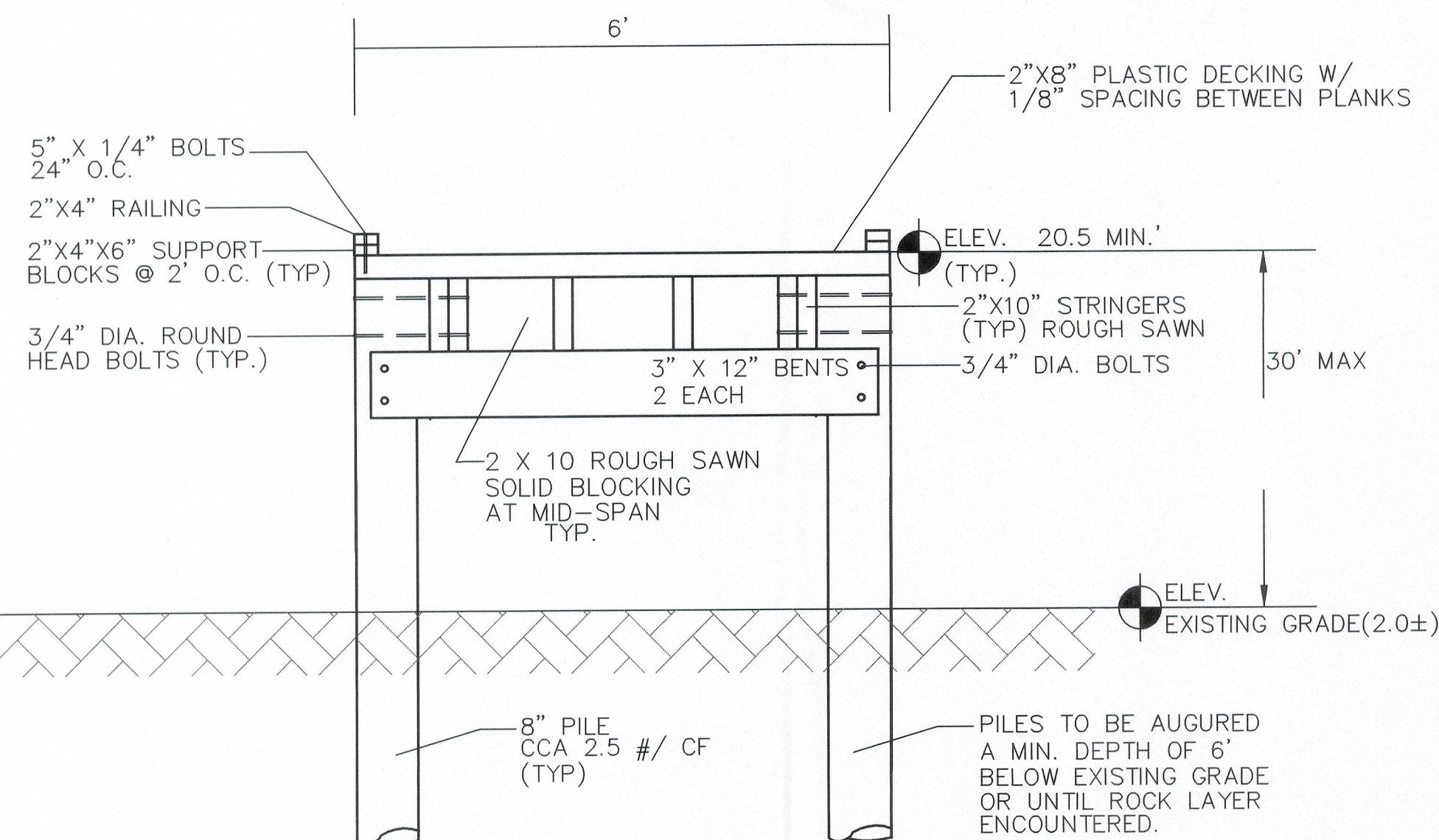
1. ALL BOLTS, WASHERS, NUTS AND NAILS: STAINLESS STEEL
TYPE 18-8 (304 SERIES MIN.)
2. SEAT BEAMS/ BENTS ON CUT PILES AND FASTEN WITH 3/4" S.S.
BOLT (WITH WASHERS AND NUTS).

E.

LUMBER TABLE

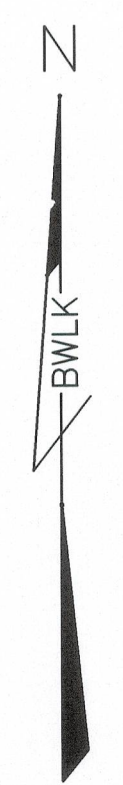
3. FASTEN INNER STRINGERS TO BEAMS AND HEADERS W/ 20d GALV. NAIL UNLESS NOTED OTHERWISE.
4. FASTEN DECKING TO EACH JOIST WITH (3) ST. STL. SQ. DRIVE # 10 X 3" DECK SCREWS.
5. FASTEN 2"x6" RAILS TO 4"x4" SUPPORTS WITH 3/4" DIA. ROUND HEAD THROUGH BOLTS. (WITH WASHERS AND NUTS)
6. PRE-DRILL FOR ALL BOLTS, LAGS, SCREWS, AND NAILS, EXCEPT 16D NAILS.
7. FASTEN STAIRS RISERS TO SIDE PLATES, AND LINTEL BEAM TO POSTS WITH S.S. SQ. DRIVE #10 X 6" LAG SCREWS.

- 6" DIA. PILES: (CCA 2.5 LBS/ CF) OR EQUAL
3" X 12" BEAMS/ BENTS: (CCA 2.5 LBS/CF)
3" X 12" STRINGERS: (CCA 0.8 LBS/CF)
2" X 8" DECKING (PLASTIC)
2" X 12" BLOCKS (CCA 2.5 LBS/CF)
4" X 4" RAILING SUPPORTS (PLASTIC)
1. ALL PILING AND WOODWORK MATERIALS, TREATMENT, AND WORKMANSHIP TO CONFORM TO THE 2000 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION EXCEPT WHERE MODIFIED BY THE SPECIFICATIONS AND THE FOLLOWING NOTES.
2. ALL WOOD PILES SHALL BE 8" DIAMETER MEETING THE MATERIALS REQUIREMENTS OF SECTION 455.6 OF THE SPECIFICATIONS INCLUDING 2.50 PCF RETENTION, CCA TREATMENT OR APPROVED EQUAL.
3. INSTALLATION OF WOOD PILES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 455.6 OF THE SPECIFICATIONS WITH THE FOLLOWING EXCEPTION:
- a. PILES SHALL HAVE A MINIMUM PENETRATION OF 6' OR TO TOP OF ROCK WHICHEVER IS LESS. INSTALL 2X10 ROUGH SAWN CROSS BRACES ON PILES AT 4' OR MORE ABOVE GRADE.
4. ALL "SUBSTRUCTURE" TIMBER AND HARDWARE INCLUDING BOLTS, 4"x 4" GUARDS, STRINGERS AND BENTS SHALL MEET THE MATERIAL AND TREATMENT REQUIREMENTS OF SECTION 470 OF THE SPECIFICATIONS INCLUDING 2.50 PCF RETENTION, CCA TREATMENT OR EQUAL. USE OGEE WASHERS UNDER ALL HEADS AND NUTS OF BOLTS IN CONTACT WITH WOOD.
5. "SUPERSTRUCTURE" TIMBER, INCLUDING 2"x8" DECKING AND 2"x 8" RAILINGS TO MEET THE MATERIAL AND TREATMENT REQUIREMENTS OF "TREX" OR EQUAL. COLOR TO BE SELECTED BY OWNER.
6. CONCRETE PADS AT ENDS OF BOARDWALK TO HAVE A MINIMUM 3000 PSI CONCRETE WITH WWM OR FIBERMESH REINFORCEMENT.
7. ALL DECKING TO BE FASTENED TO STRINGERS WITH 2 STAINLESS SCREWS PER MEMBER AT EACH STRINGER.



NTS

SCALE: AS SHOWN	JOSEPH W. EBNER, P.E. FL. REG. # 19359 NOT VALID UNLESS SIGNED & EMBOSSED SEALED	LEE COUNTY P.O. BOX 398, FORT MYERS, FL 33902-0398 (239) 489-1814 FAX (239) 489-1816	6/6/06	PERMIT REVIEW SET			J.W. EBNER CONSULTING, INC.	PRAIRIE PINES PRESERVE	PROJECT NO.: 06-113-01
DATE: JULY 2007							2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904 (239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM	DETAIL SHEET	SHEET NO.: D-4



NOT TO SCALE

DEVELOPMENT
ORDER PARCEL

PINE SHADOWS AIRPARK
P.B. 34, PGS. 66-67

LEE COUNTY CONSERVATION 2020 PARCEL 194
O.R. 3888, PG. 1655

CROSS SECTION "B"
S 63°49'18" W 258.80'
S 11°10'42" E 730.80'

CROSS SECTION "A"
N 63°49'18" E 258.80'
S 11°10'42" E 1264.67'

2019'

1,274'

1402.10'

OVERALL SITE LAYOUT

LDC
JUL 23 2008
APPROVED

Joe W. Ebner
7/27/07

SCALE: AS SHOWN DATE: JULY 2007	JOSEPH W. EBNER, P.E. FL. REG. # 19359 NOT VALID UNLESS SIGNED & EMBOSSED SEALED	LEE COUNTY P.O. BOX 398, FORT MYERS, FL 33902-0398 (239) 489-1814 FAX (239) 489-1816	6/6/06	PERMIT REVIEW SET							J.W. EBNER CONSULTING, INC. 2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904 (239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM	PRAIRIE PINES PRESERVE DETAIL SHEET	PROJECT NO.: 06-113-01 SHEET NO.: D-6

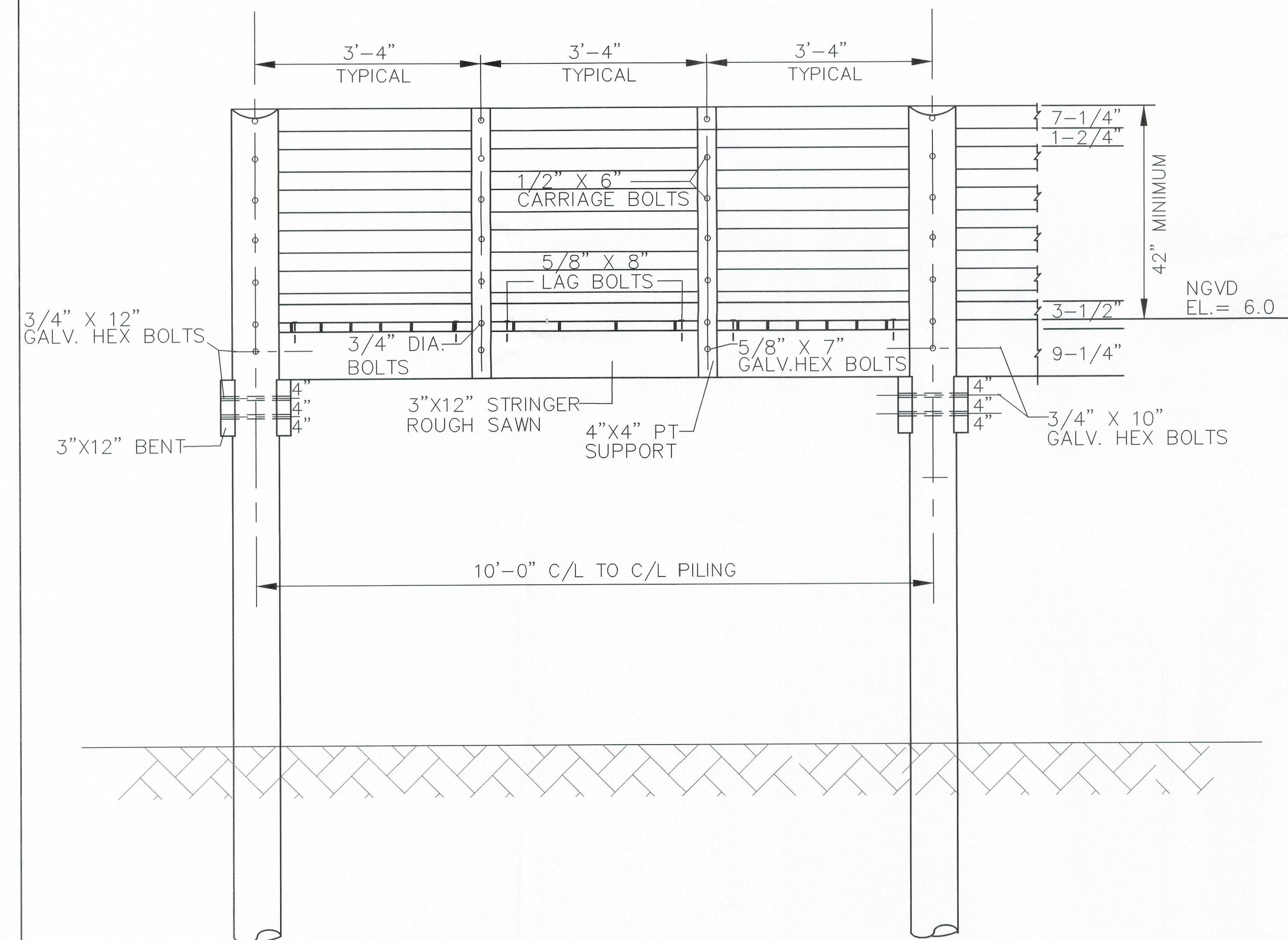
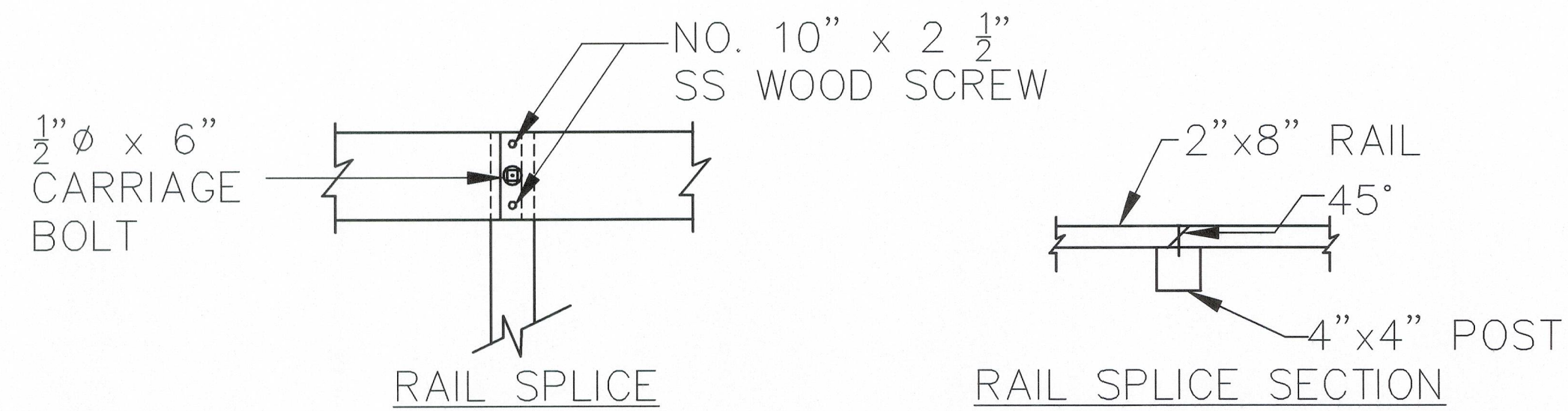
REINFORCED STRUCTURAL PLASTIC LUMBER, RAILING, DECK AND OTHER PLASTIC MATERIAL TO MEET THE FOLLOWING REQUIREMENTS.

FLEXURAL STRENGTH	ASTM D6109	2,700 PSI
FLEXURAL MODULUS	ASTM D6109	300,000 PSI
COMPRESSION STRENGTH	ASTM D6108	2,300 PSI
COMPRESSION MODULUS	ASTM D6108	114,000 PSI
THERMAL EXPANSION	ASTM D6341	.000035 IN/IN/DEG F
UV RESISTANCE	ASTM D4329	1% AFTER 500 HOURS
SCREW WITHDRAWAL	ASTM D1761	380 LBS.
COEFFICIENT OF FRICTION (STATIC AND SLIDING, WET AND DRY)	ASTM D2394	>.50
FLASH POINT		>300 DEG. C

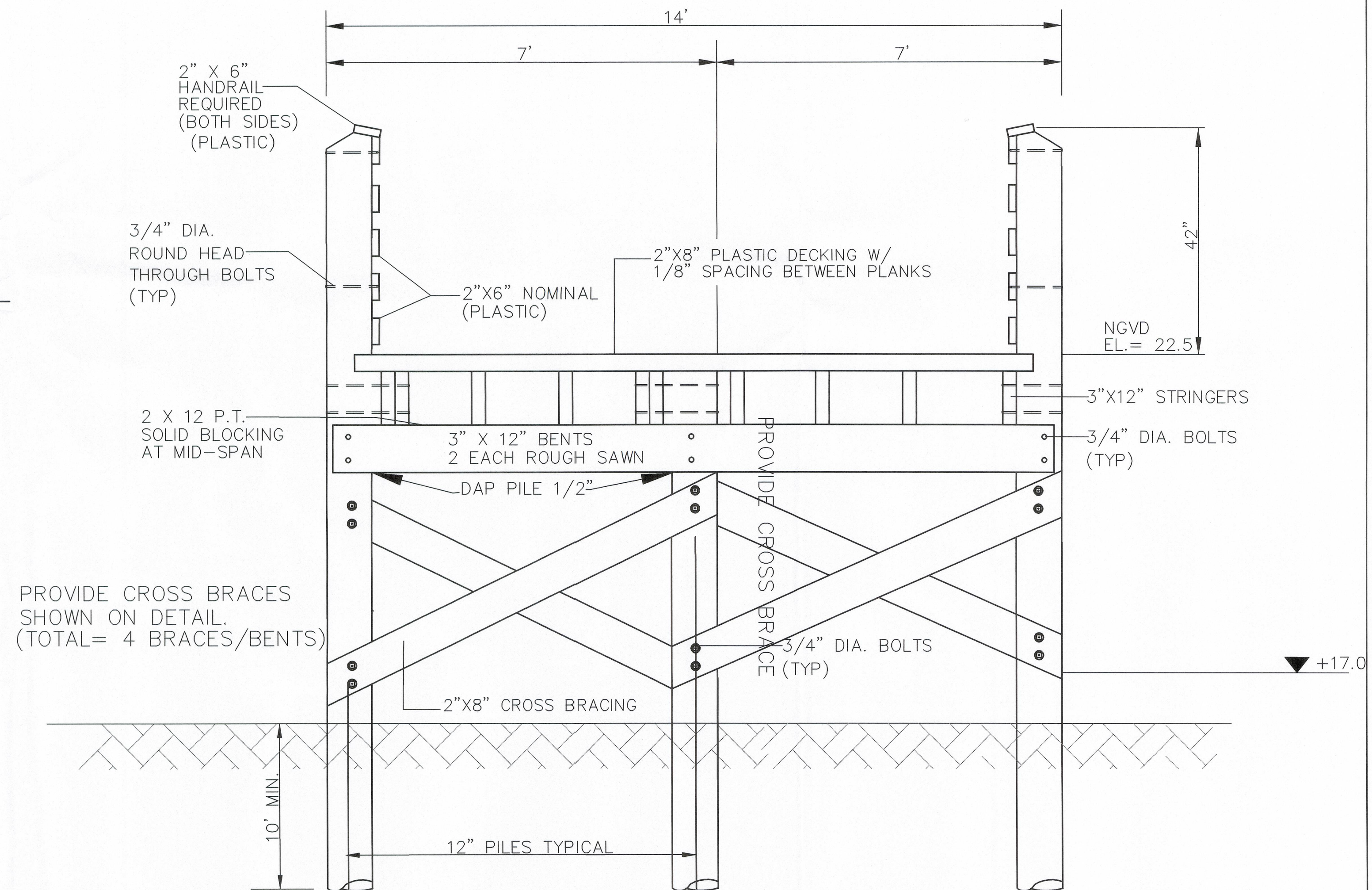
ALL PLASTIC MATERIAL TO BE BY ECO BOARD, FIBER FORCE, TREX OR EQUAL.

LIGHT GREY IN COLOR. THE OWNER HAS THE RIGHT TO REVIEW AND ACCEPT OR REJECT ALL MATERIALS.

MANUFACTURER TO PROVIDE 50 YEAR WARRANTY FOR STRUCTURAL
DAMAGE AND SPLINTERING.



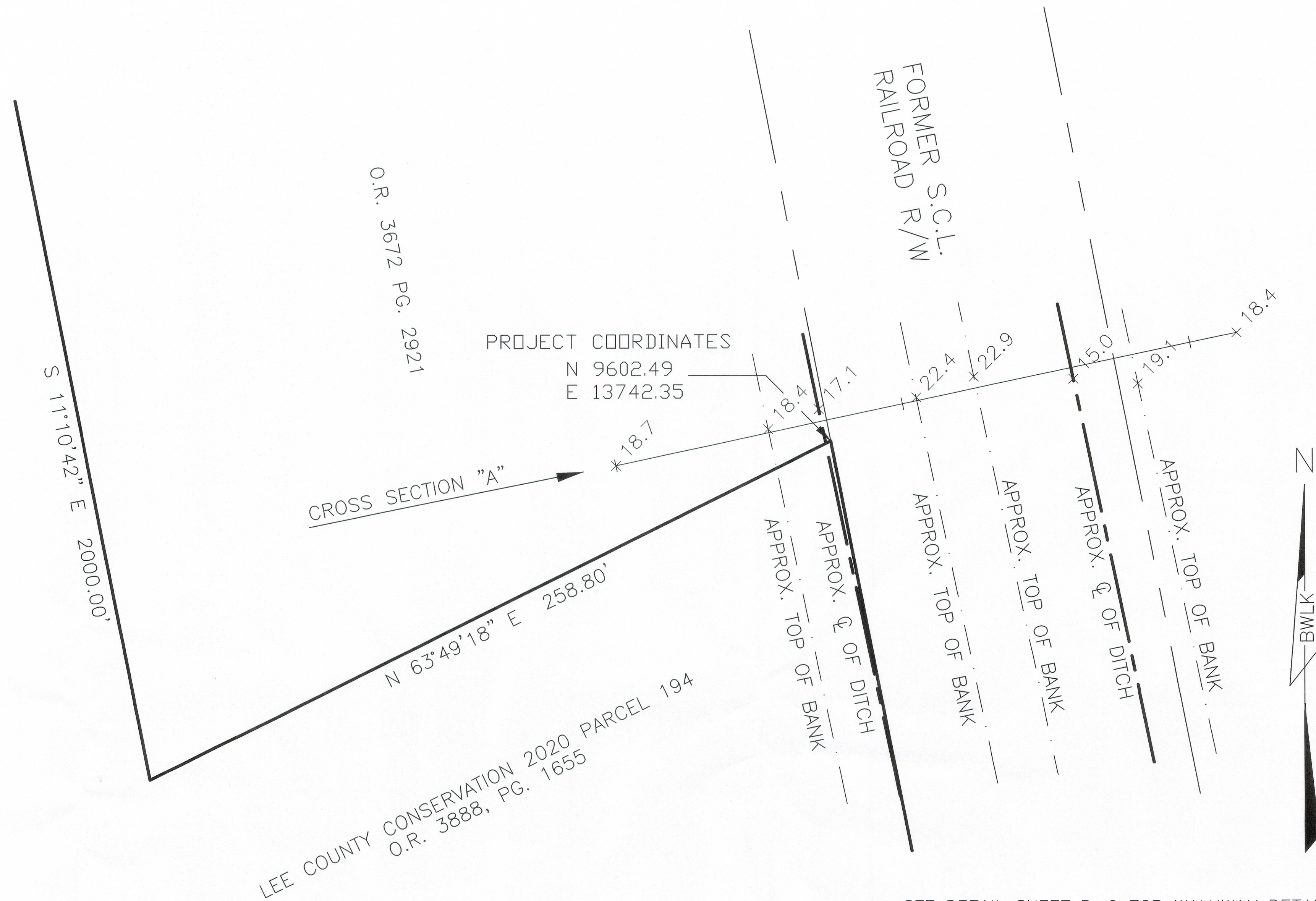
SECTION THRU PROPOSED
RAILROAD DITCH CROSSINGS



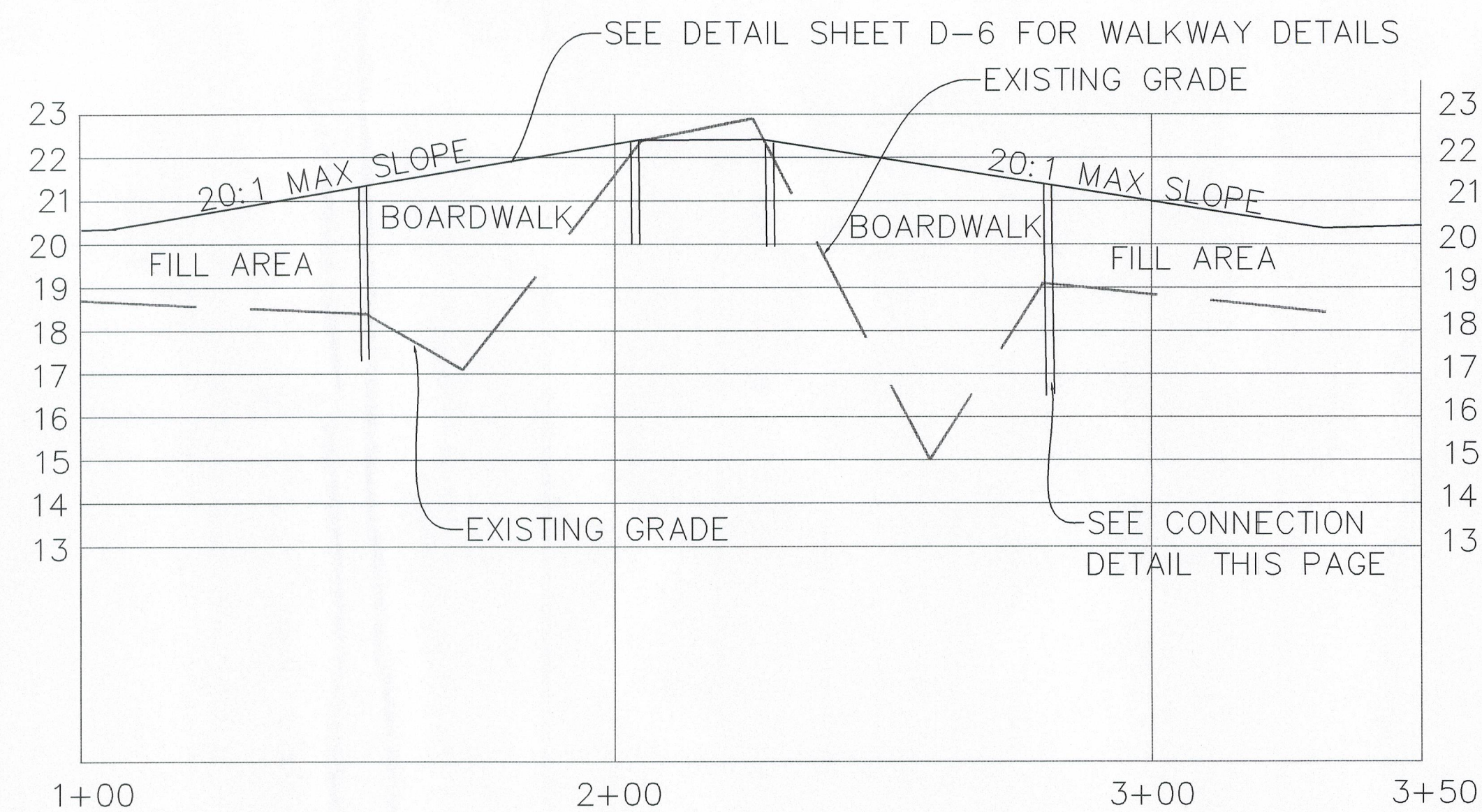
SECTION	PROPOSED
RAILROAD	DITCH CROSSINGS

LDC
JUL 23 2008
APPROVED

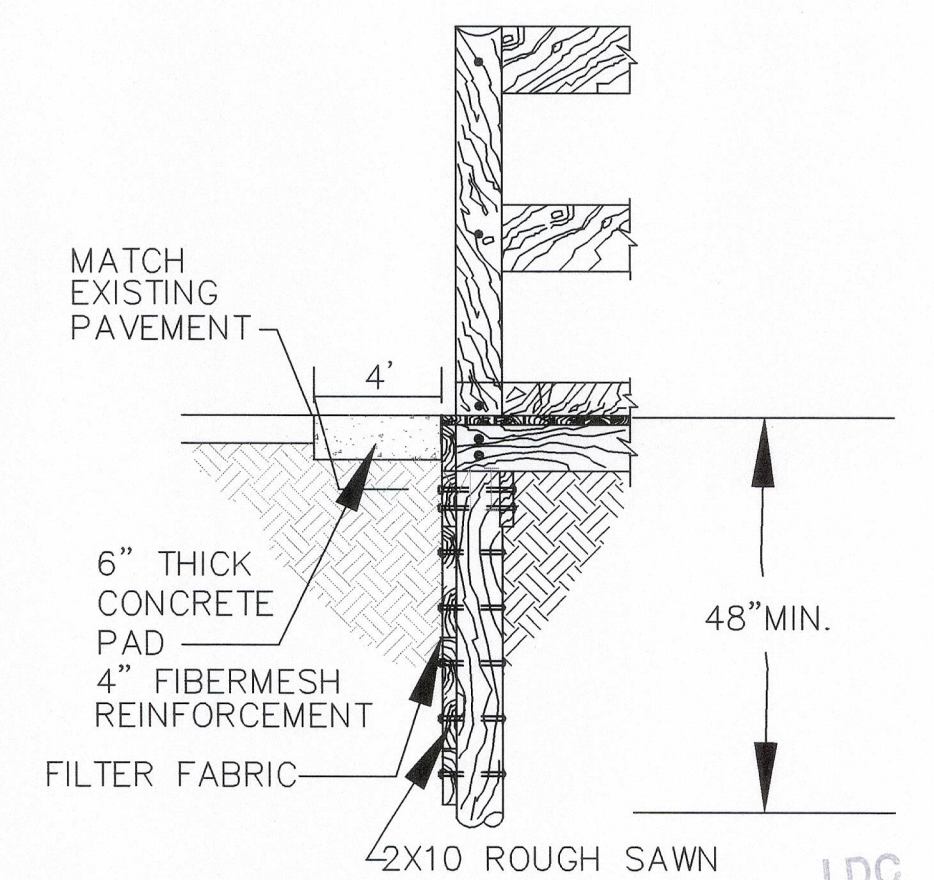
SCALE: AS SHOWN	JOSEPH W. EBNER, P.E. FL. REG. # 19359 NOT VALID UNLESS SIGNED & EMBOSSED SEALED	LEE COUNTY P.O. BOX 398, FORT MYERS, FL 33902-0398 (239) 489-1814 FAX (239) 489-1816	6/6/06	PERMIT REVIEW SET		J.W. EBNER CONSULTING, INC.	PRAIRIE PINES PRESERVE	PROJECT NO.: 06-113-01
DATE: JULY 2007						2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904 (239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM	DETAIL SHEET	SHEET NO.: D-7



LEE COUNTY CONSERVATION 2020 PARCEL 194
O.R. 3888, PG. 1655



CROSS-SECTION A



BOARDWALK CONNECTION TO PATH AT BOTH ENDS
JUL 23 2008
NTS APPROVED

Joe 7/27/07

SCALE: 1"=25' DATE: JULY 2007	JOSEPH W. EBNER, P.E. FL. REG. # 19359 NOT VALID UNLESS SIGNED & EMBOSSED SEALED	LEE COUNTY P.O. BOX 398, FORT MYERS, FL 33902-0398 (239) 489-1814 FAX (239) 489-1816	6/6/06	PERMIT REVIEW SET		J.W. EBNER CONSULTING, INC. 2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904 (239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM	PRAIRIE PINES PRESERVE DETAIL SHEET R.R. DITCH CROSSING	PROJECT NO.: 06-113-01 SHEET NO.: D-8
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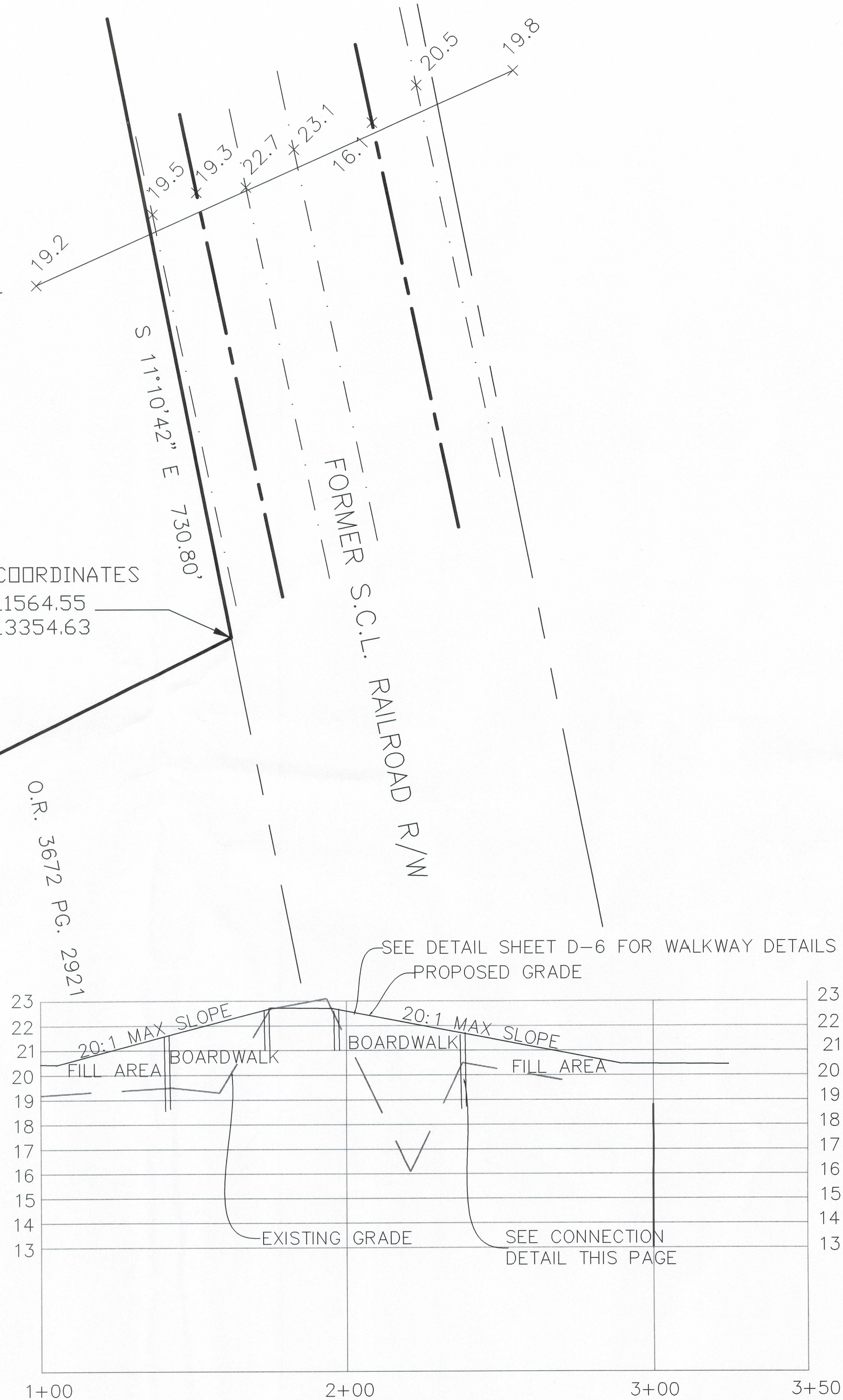


LEE COUNTY CONSERVATION 2020 PARCEL 194
O.R. 3888, PG. 1655

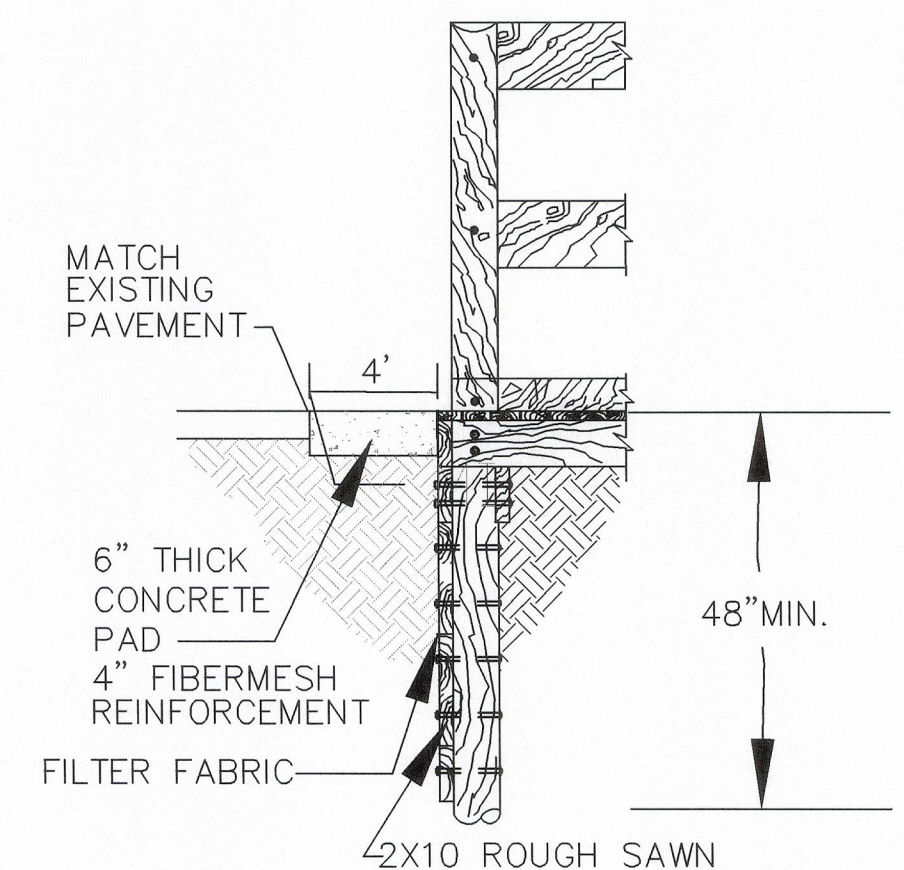
PROJECT COORDINATES
N 11564.55
E 13354.63

S 63°49'18" W 258.80'

O.R. 3672 PG. 2921



CROSS-SECTION B



BOARDWALK CONNECTION
TO PATH AT BOTH ENDS
NTS
JUL 23 2008
LDC
APPROVED

7/22/07

SCALE: 1"=25'

DATE: JULY 2007

JOSEPH W. EBNER, P.E.
FL. REG. # 19359
NOT VALID UNLESS
SIGNED & EMBOSSED SEALED

LEE COUNTY
P.O. BOX 398, FORT MYERS, FL 33902-0398
(239) 489-1814 FAX (239) 489-1816

6/6/06	PERMIT REVIEW SET				

J.W. EBNER CONSULTING, INC.

2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904
(239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM

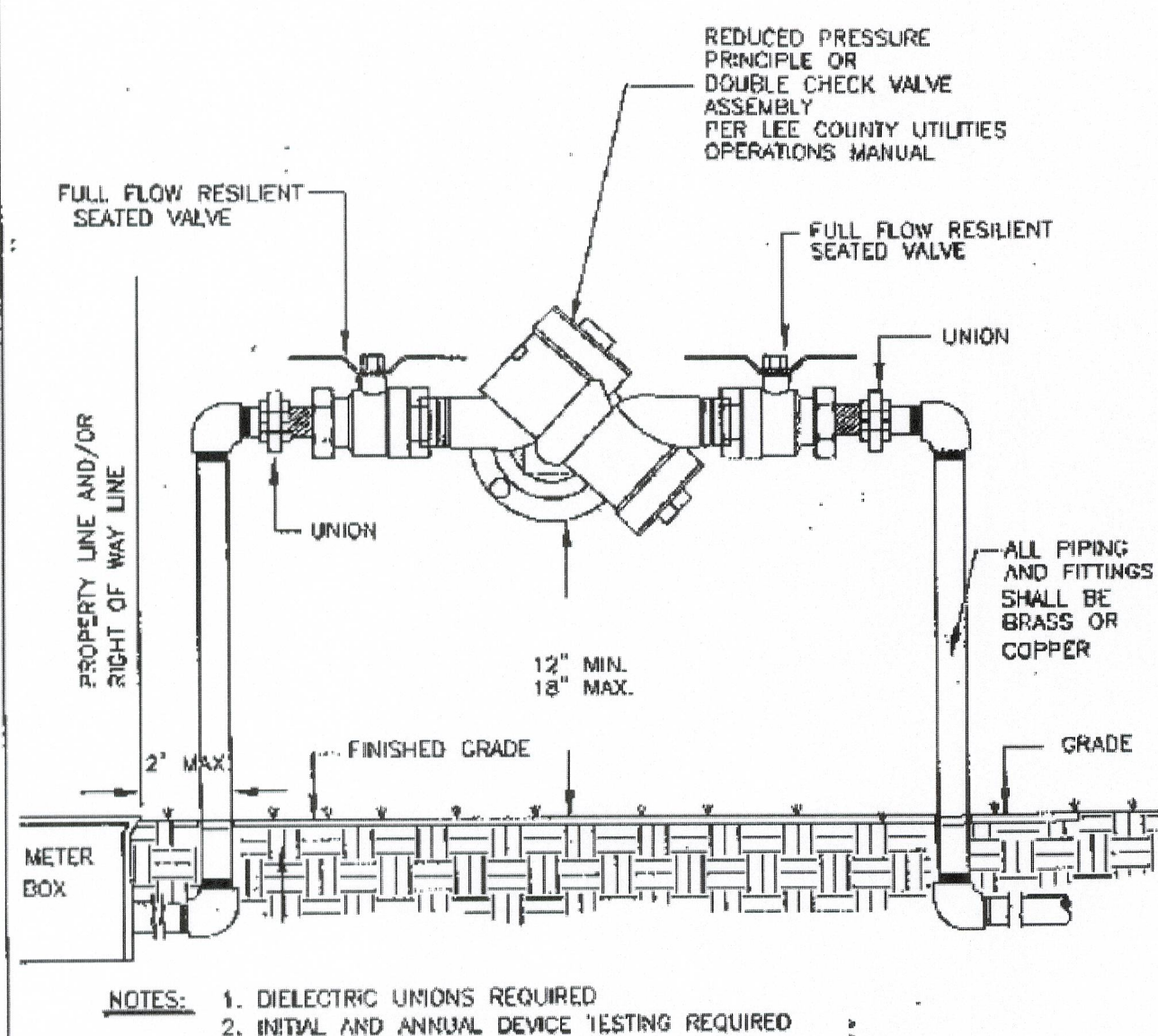
PRAIRIE PINES PRESERVE

DETAIL SHEET
R.R. DITCH CROSSING

PROJECT NO.: 06-113-01

SHEET NO.:
D-9

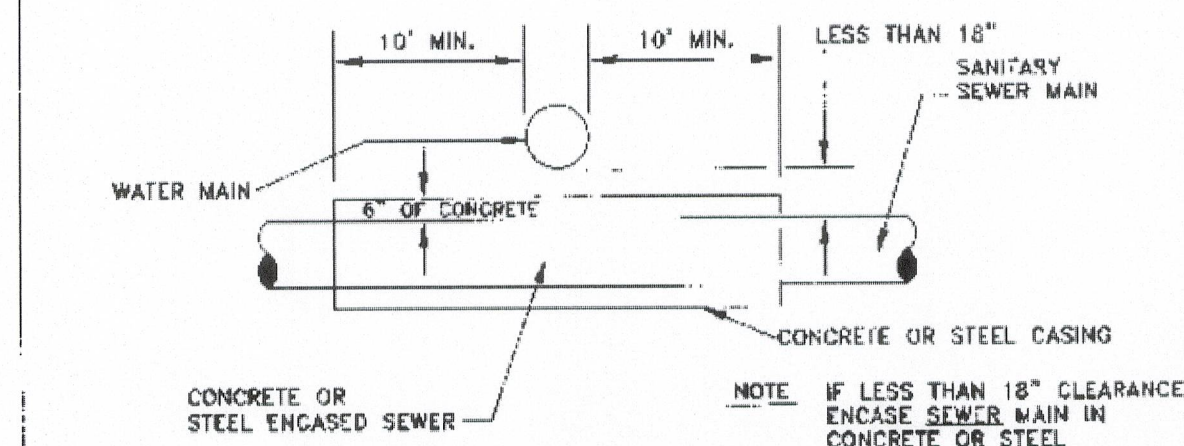
STANDARD DETAIL NO. 9.11
LEE COUNTY UTILITIES
3/4" TO 2" CROSS CONNECTION CONTROL ASSEMBLY



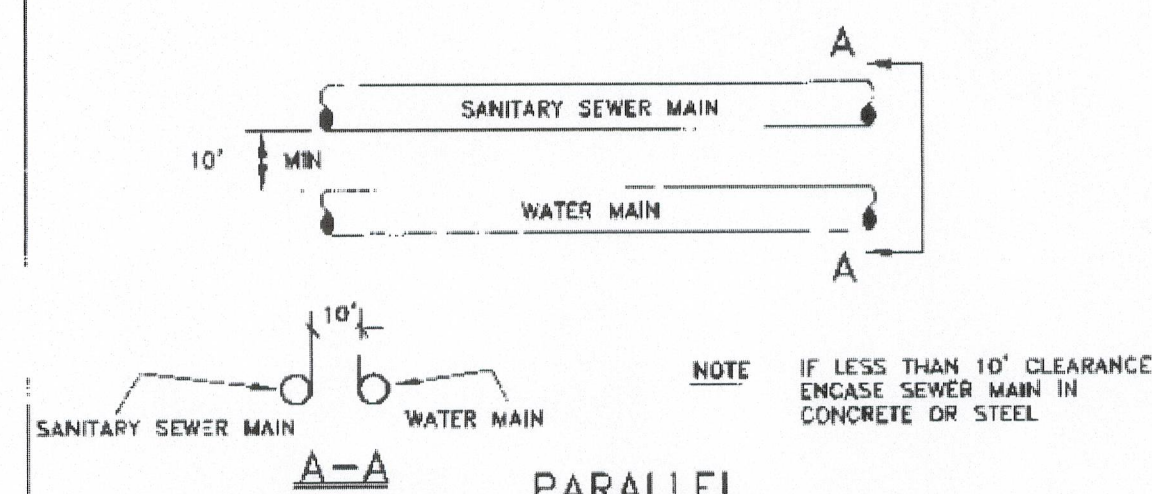
DATE: 06/26/2003

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STANDARD DETAIL NO. 9.21
LEE COUNTY UTILITIES
WATER AND SEWER CROSSING DETAIL



NTS

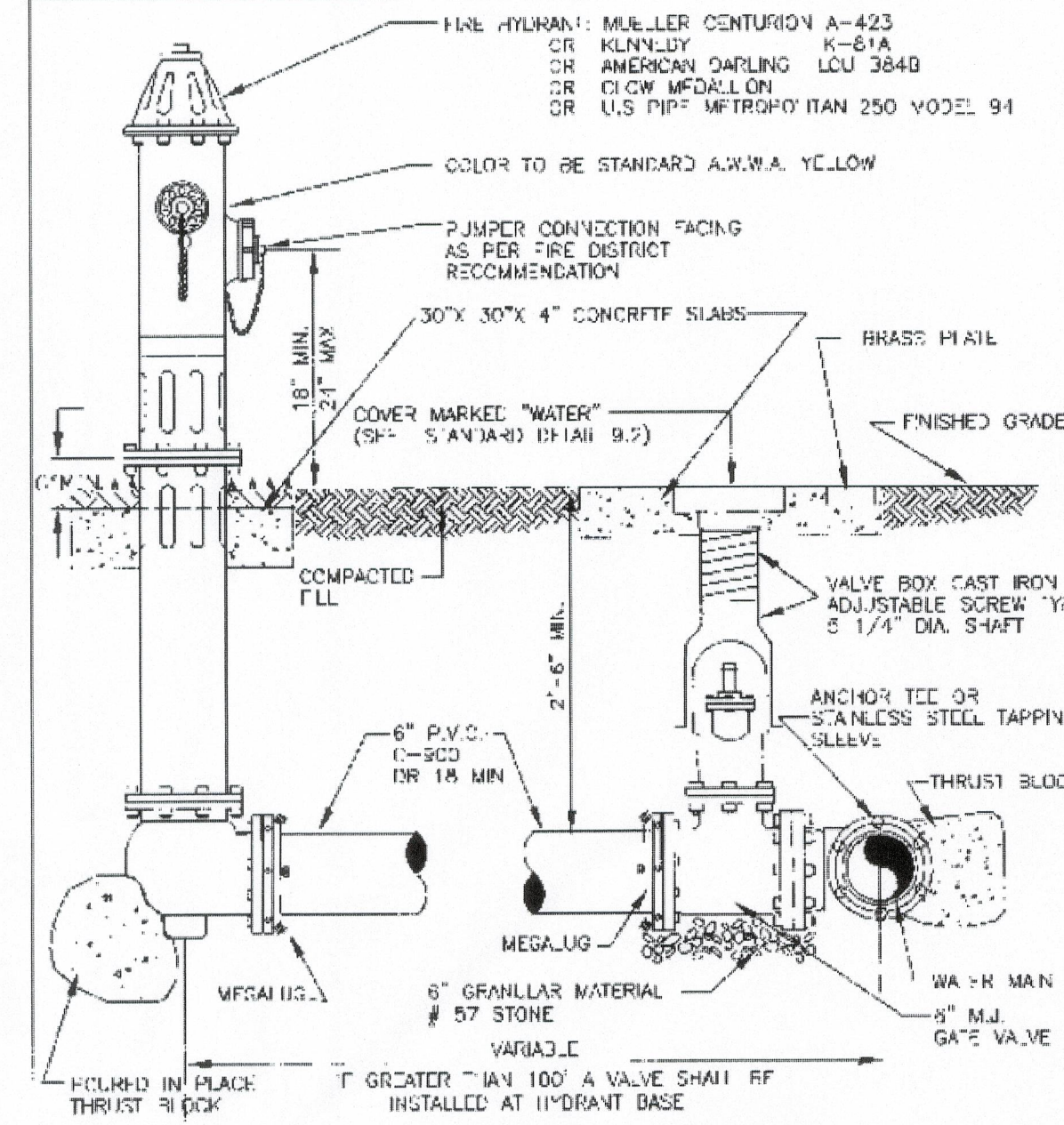


NTS

DATE: 02/22/00

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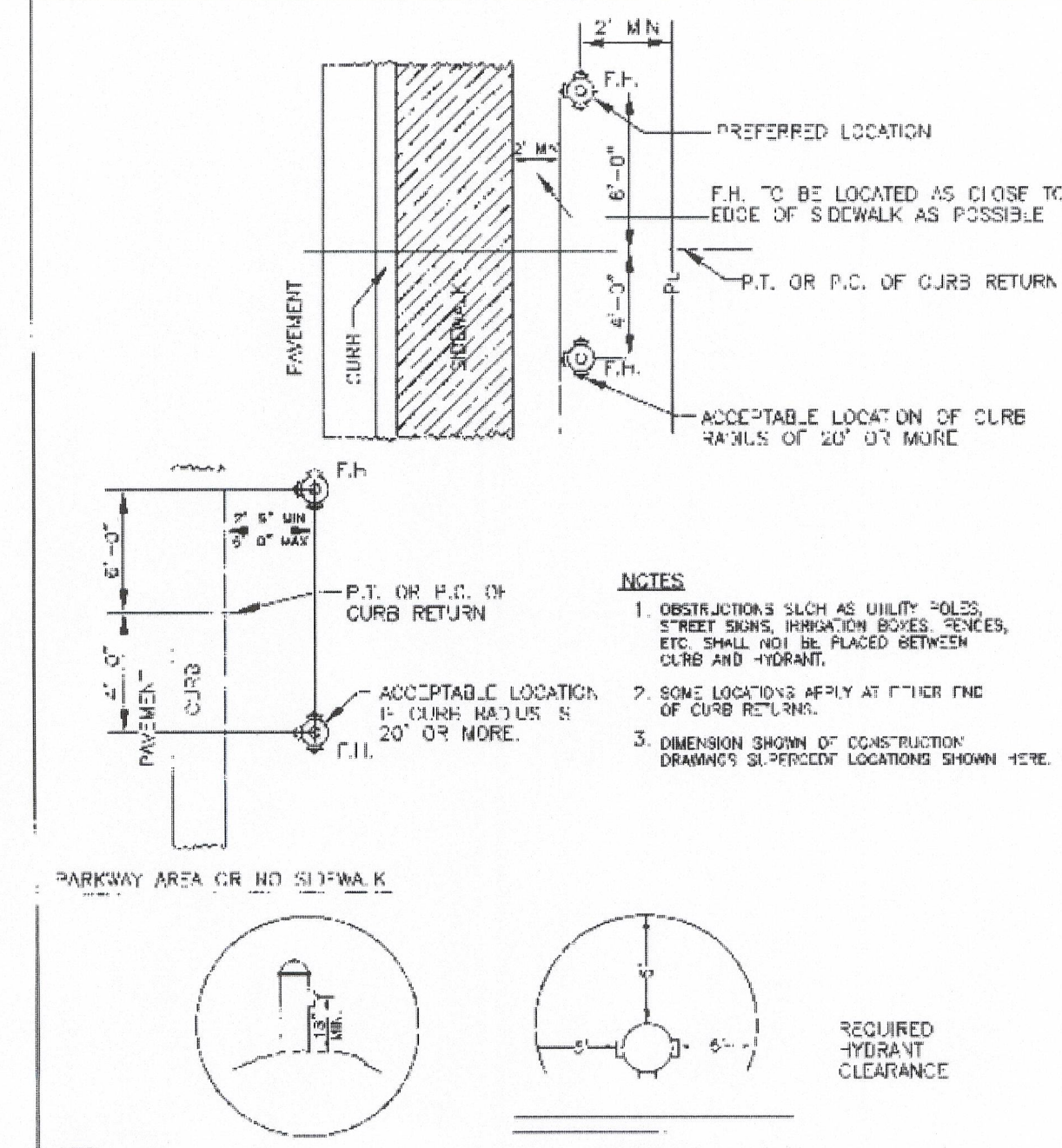
STANDARD DETAIL NO. 9.14
LEE COUNTY UTILITIES
FIRE HYDRANT ASSEMBLY



DATE: 02/22/00

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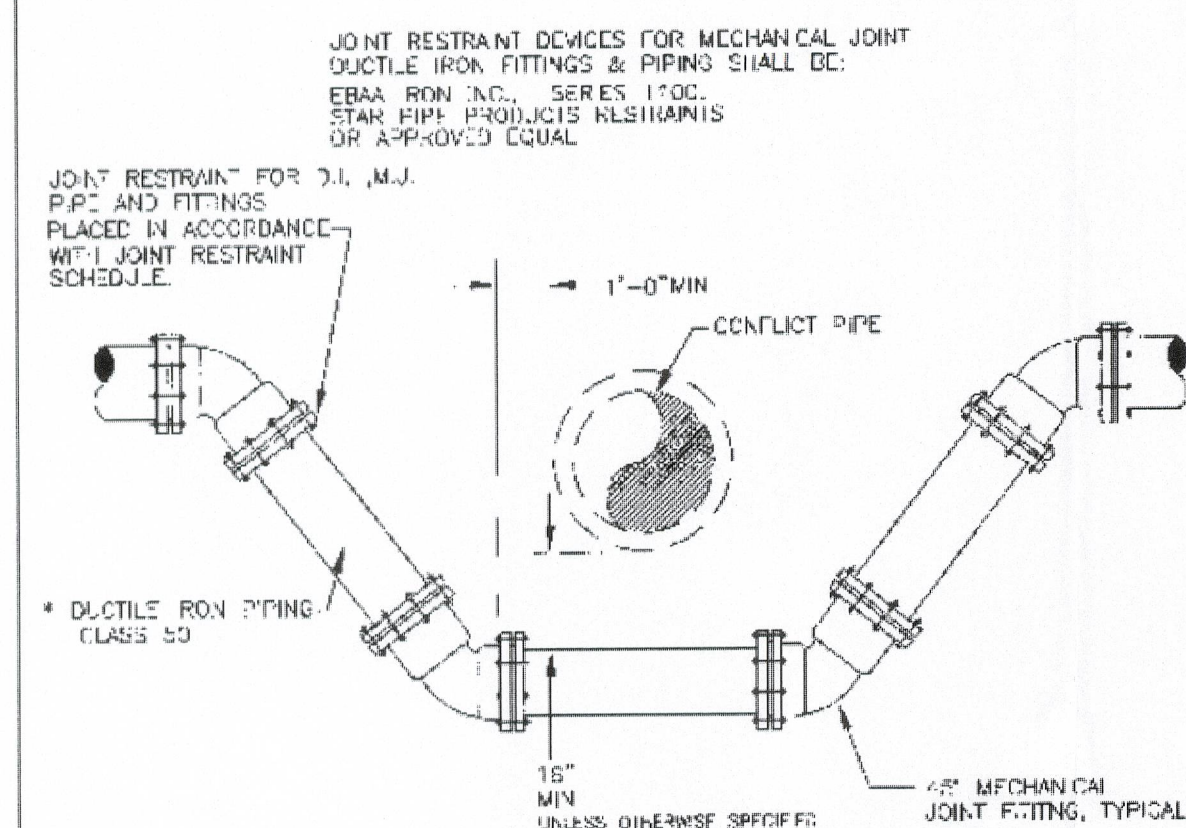
STANDARD DETAIL NO. 9.15
LEE COUNTY UTILITIES
FIRE HYDRANT LOCATIONS/CLEARANCE



DATE: 02/22/00

S:\UTILS\ENGR\ACAD\DETAILS\15

STANDARD DETAIL NO. 9.6
LEE COUNTY UTILITIES
WATER PRESSURE LINE VERTICAL OFFSET
W/ DUCTILE IRON MJ FITTINGS & PIPE

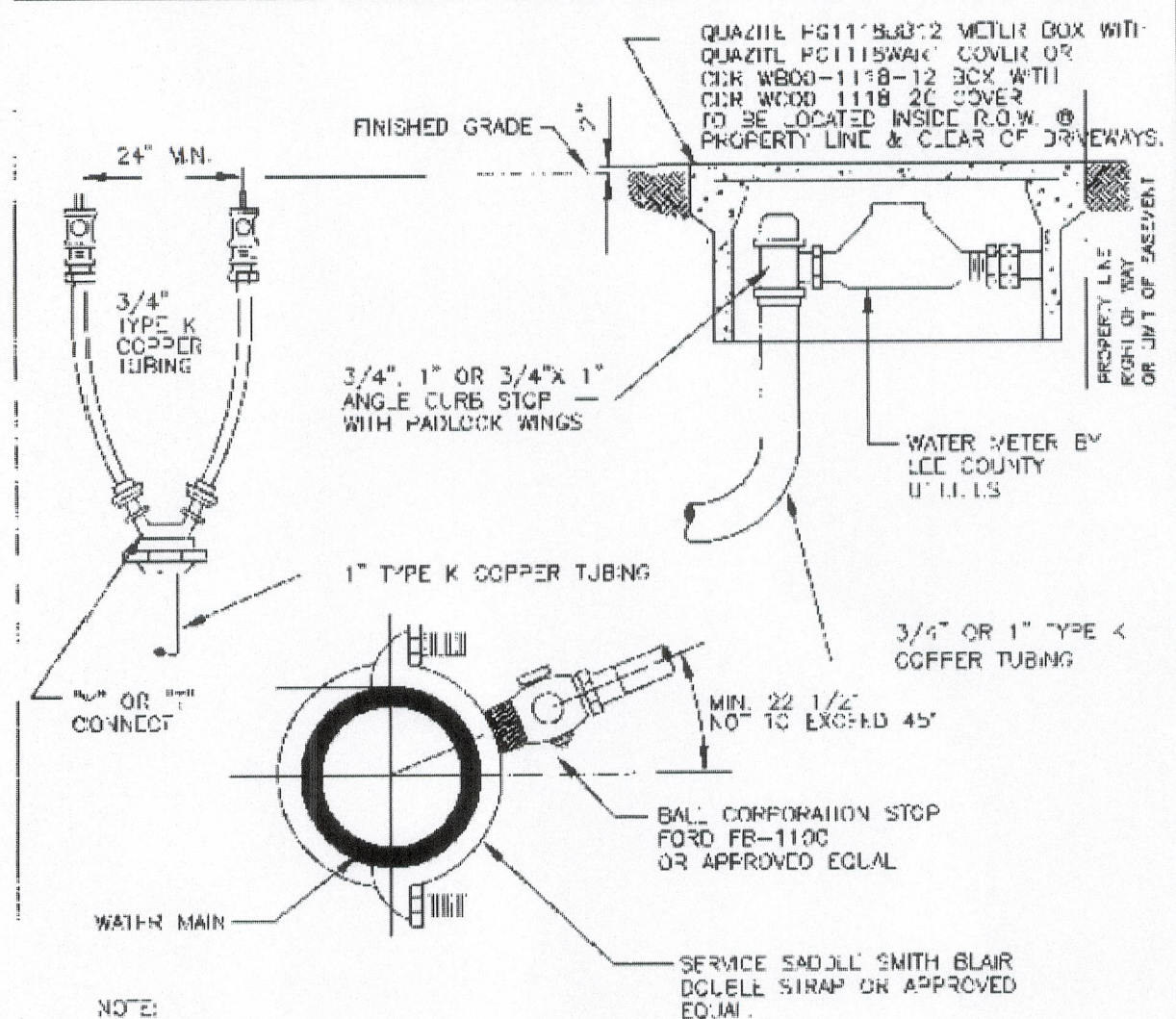


NTS

DATE: 02/22/00

S:\UTILS\ENGR\ACAD\DETAILS\6

STANDARD DETAIL NO. 9.9
LEE COUNTY UTILITIES
WATER SERVICE INSTALLATION
5/8" THROUGH 1"



NOTE:

1. TUBING UNDER ROADWAY SHALL BE ENCASED IN 2" P.V.C. PIPE SCHEDULE 40 MINIMUM AND EXTEND 4 FEET BEYOND THE EDGES OF PAVEMENT OR BACK OF CURB.
2. CURB STOP SHALL BE: FORD TYPE K443 332W FOR 3/4", K413-32W FOR 1" X 3/4" OR K443 444W FOR 1" OR APPROVED EQUAL.

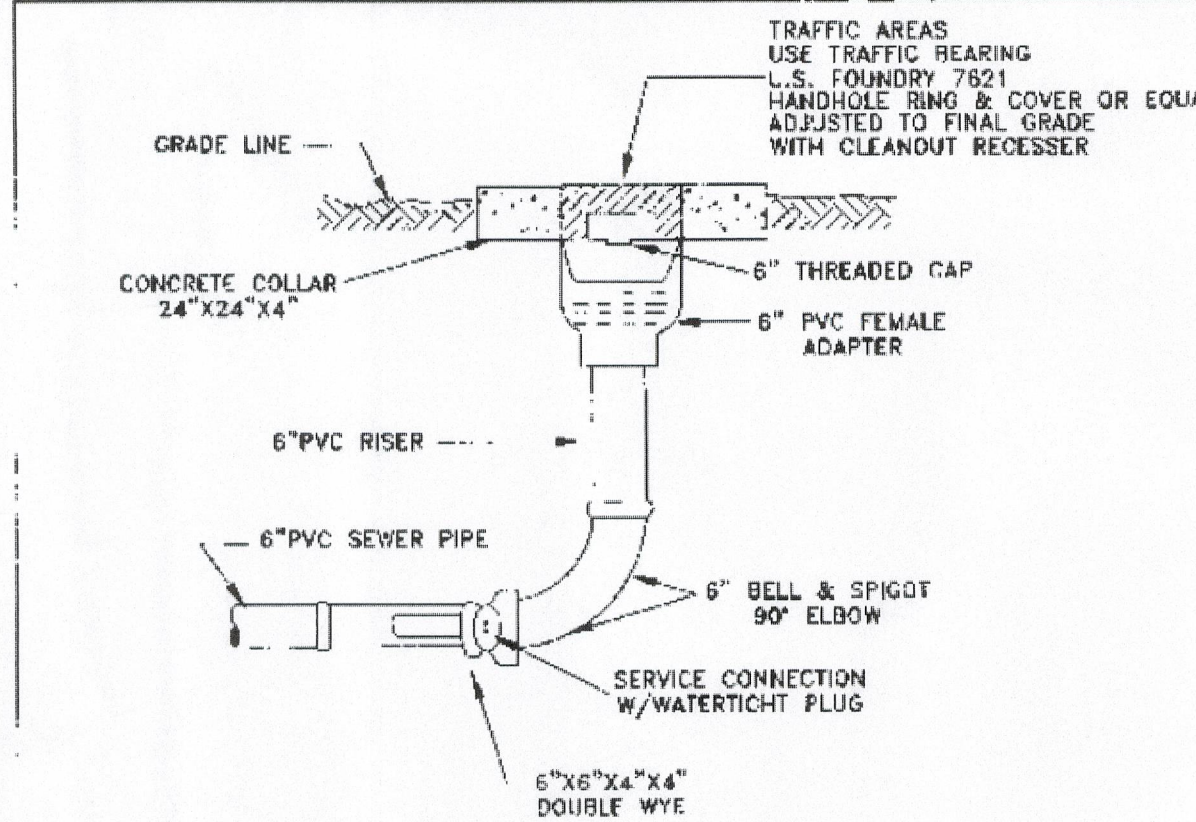
ALTERNATIVE:

POLYETHYLENE, PE 3408 (200 PSI SDR 9, ASTM D3350), TUBING MAY BE SUBSTITUTED. COLOR FOR WATER SHALL BE BLUE.

DATE: 02/22/00

S:\UTILS\ENGR\ACAD\DETAILS\9

STANDARD DETAIL NO. 9.40
LEE COUNTY UTILITIES
6" SEWER CLEAN-OUT DETAIL



USE 7621 REVERSIBLE HANDHOLE RING AND COVER

COVER TYPE	LOAD RATING	COVER WEIGHT	TOTAL WEIGHT
FE	HEAVY DUTY	20	45

DATE: 02/22/00

S:\UTILS\ENGR\ACAD\DETAILS\40

SCALE: N.T.S.
 DATE: JULY 2007

JOSEPH W. EBNER, P.E.
 FL. REG. # 19359
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LEE COUNTY
 P.O. BOX 398, FORT MYERS, FL 33902-0398
 (239) 489-1814 FAX (239) 489-1816

PERMIT REVIEW SET

J.W. EBNER CONSULTING, INC.

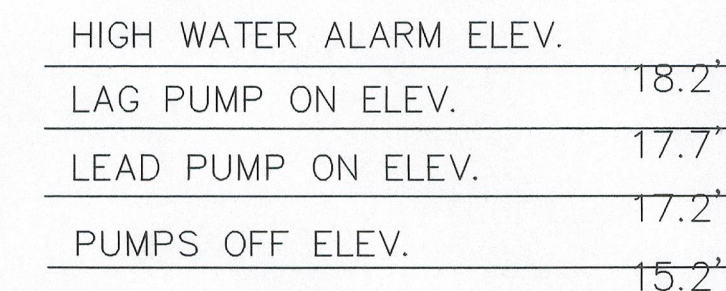
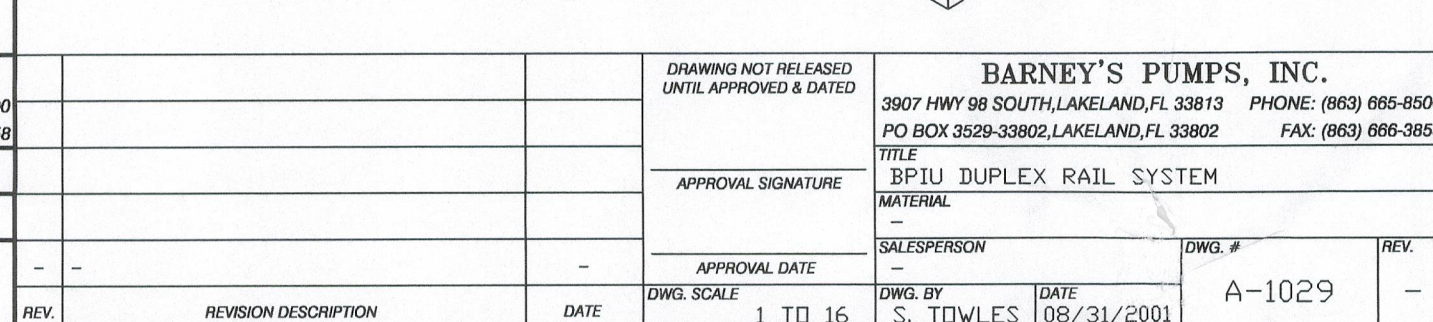
2025 S.E. 44TH STREET, CAPE CORAL, FLORIDA 33904
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PRAIRIE PINES PRESERVE
 WATER & SEWER DETAILS

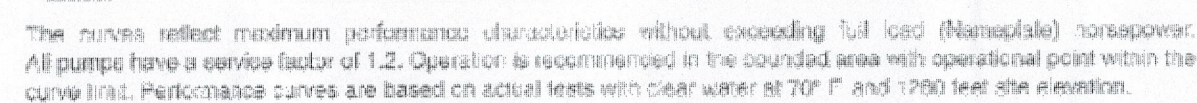
PROJECT NO.: 06-113-01

SHEET NO.:
 D-10

LDC
 JUL 23 2008
 APPROVED



BARNEY'S PUMPS, INC.			
DESCRIPTION: DUPLEX LIFT STATION			
PROJECT: PRAIRIE PINES PRESERVE			
CUSTOMER: LEE COUNTY			
DATE: NOVEN 27	DRAWN BY: JCK	DRAWING #: ww2gflf0	
NOT TO SCALE			



Conditions of Service

GPM: TDPH:

HYDROMATIC®

007	JOSEPH W. EBNER, P.E.	LEE COUNTY
	FL. REG. # 19359	P.O. BOX 398, FORT MYERS, FL 33902-0398
	NOT VALID UNLESS SIGNED & EMBOSSED SEALED	(239) 489-1814 FAX (239) 489-1816

	PERMIT REVIEW SET		

J.W. EBNER CONSULTING, INC.

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(239) 540-1783 FAX (239) 540-1712 EMAIL JOE19359@YAHOO.COM

PRAIRIE PINES PRESERVE

LIFTSTATION DETAILS

PROJECT NO.: 06-113-01

SHEET NO.:

D-11

LDC

APPROVED