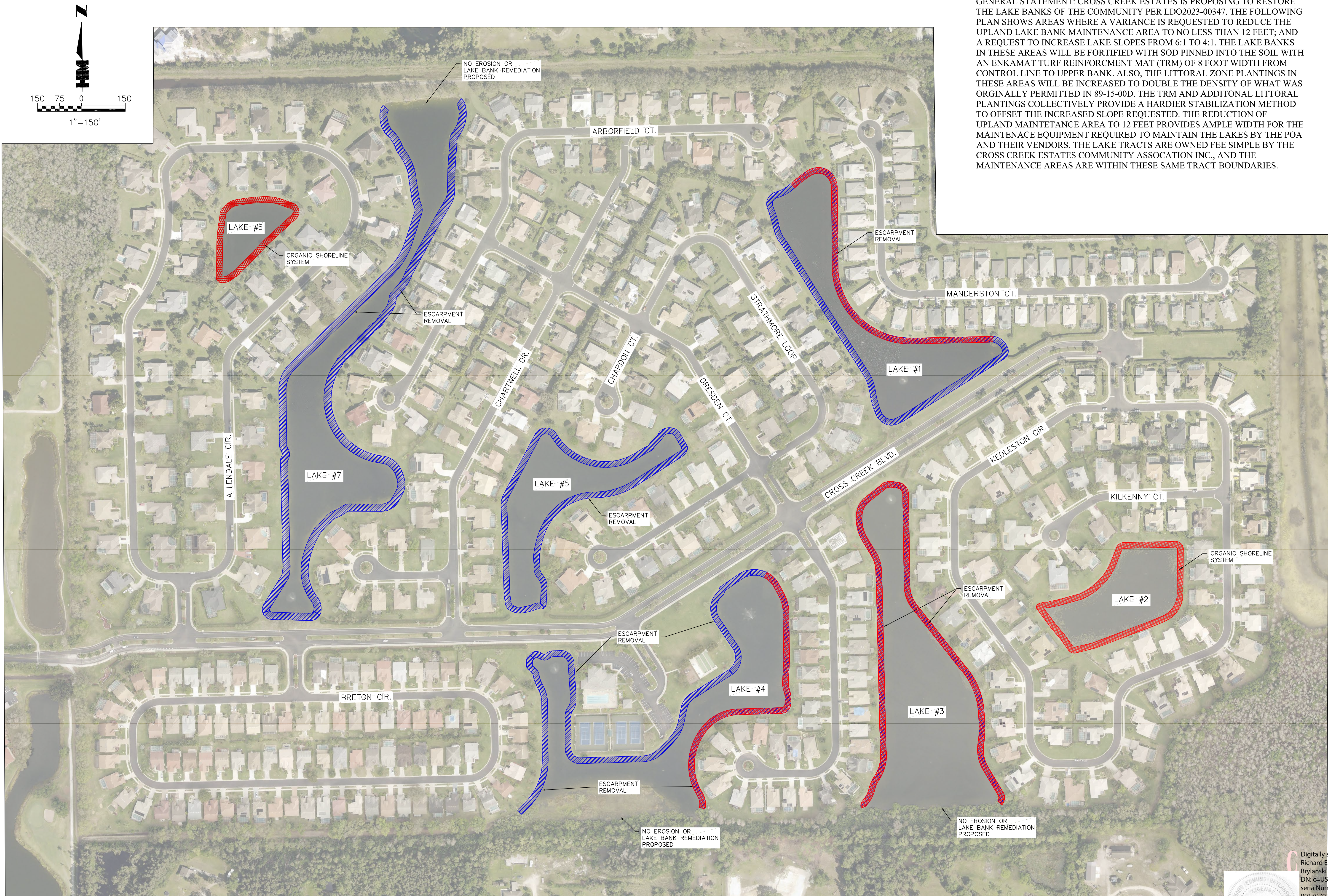




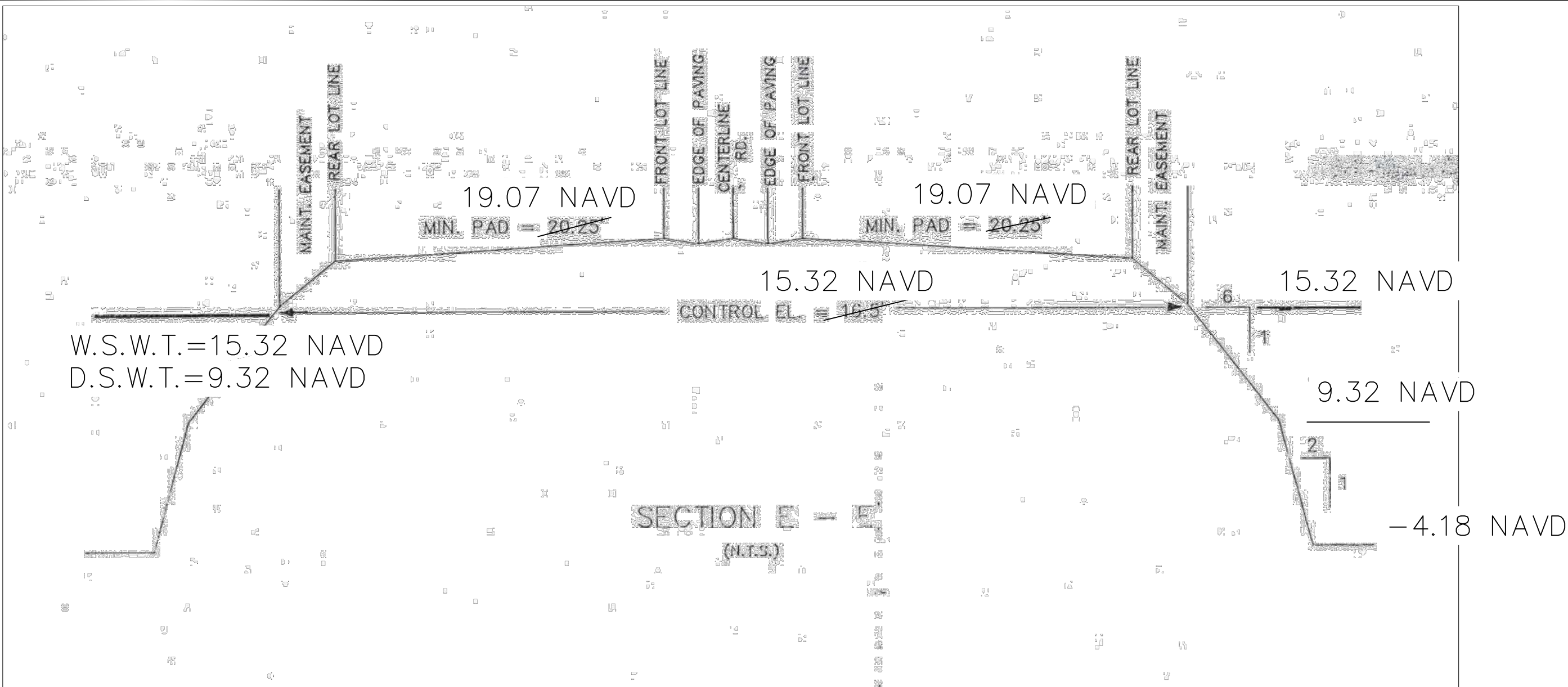
GENERAL STATEMENT: CROSS CREEK ESTATES IS PROPOSING TO RESTORE THE LAKE BANKS OF THE COMMUNITY PER LDO2023-00347. THE FOLLOWING PLAN SHOWS AREAS WHERE A VARIANCE IS REQUESTED TO REDUCE THE UPLAND LAKE BANK MAINTENANCE AREA TO NO LESS THAN 12 FEET; AND A REQUEST TO INCREASE LAKE SLOPES FROM 6:1 TO 4:1. THE LAKE BANKS IN THESE AREAS WILL BE FORTIFIED WITH SOD PINNED INTO THE SOIL WITH AN ENKAMAT TURF REINFORCEMENT MAT (TRM) OF 8 FOOT WIDTH FROM CONTROL LINE TO UPPER BANK. ALSO, THE LITTORAL ZONE PLANTINGS IN THESE AREAS WILL BE INCREASED TO DOUBLE THE DENSITY OF WHAT WAS ORIGINALLY PERMITTED IN 89-15-00D. THE TRM AND ADDITIONAL LITTORAL PLANTINGS COLLECTIVELY PROVIDE A HARDIER STABILIZATION METHOD TO OFFSET THE INCREASED SLOPE REQUESTED. THE REDUCTION OF UPLAND MAINTENANCE AREA TO 12 FEET PROVIDES AMPLE WIDTH FOR THE MAINTENANCE EQUIPMENT REQUIRED TO MAINTAIN THE LAKES BY THE POA AND THEIR VENDORS. THE LAKE TRACTS ARE OWNED FEE SIMPLE BY THE CROSS CREEK ESTATES COMMUNITY ASSOCIATION INC., AND THE MAINTENANCE AREAS ARE WITHIN THESE SAME TRACT BOUNDARIES.

LEGEND
LAKE BANK AREA PROPOSED VARIANCE



Digitally signed by
Richard Edmund
Brylanski
DN: c=US,
serialNumber=MAS2023
0913970755,
st=FLORIDA, l=Naples,
o=Hole Montes, Inc.,
cn=Richard Edmund
Brylanski,
email=rickbrylanski@hm
eng.com
Date: 2023.12.13
07:05:20 -05'00'

THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED & SEALED BELOW:		CROSS CREEK ESTATES COMM. ASSN. FORT MYERS, FLORIDA 33912		LD02021-00347 VARIANCE REQUEST SITE PLAN		 HOLE MONTES a BOWMAN COMPANY		6200 Whiskey Creek Drive Fort Myers, FL 33919 Phone : (239) 985-1200 Florida Certificate of Authorization No.1772 Naples Fort Myers		△		
DESIGNED: REB	DATE: 12/11/23	DRAWN: MM	DATE: 12/11/23	CHECKED: REB	DATE: 12/11/23	VERT. SCALE: nts	HORIZ. SCALE: 1"=150'	DRAWING NO. 2021.066				
PROJECT NO. 21.66		SHEET NO. 1								NUMBER	REVISIONS	DATE



ORIGINAL LAKE CROSS SECTION
(DO 89-05-015.00D)
S.F.W.M.D. PERMIT# 36-01473-S
PLANS PREPARED BY BROWN COLLINS, INC.
SHEET 7 OF 9

NOTE: ELEVATIONS IN SECTION ABOVE ARE NAVD 88 VERTICAL DATUM.
CONVERSION TO NGVD29 ADD 1.18 FT.

DSO#89-05-105.00D
LITTORAL LAKE BANK PLANTINGS

In the littoral area, herbaceous wetland species will be planted from the shoreline waterward to a depth of approximately 3 feet below normal pool elevation (15.32' NAVD) thereby forming a band roughly 18' wide. Zone A plants will be planted from depths of about 0 to 0.5 feet below normal pool elevation. Zone B plants will be planted from depths of about 0.5 to 2.0 feet below normal pool elevation. Zone A and B plants will be established using 2" pot and/or bare root stock planted on 3-foot centers. Zone C plants will be planted from depths of about 2.0 to 3.0 feet below normal pool elevation using tuber stock planted on 6-foot centers. Zone D species will only be planted in certain areas of the lakes using 2" pot and/or bare root stock planted on 3-foot centers at depth of about 0 to 2.0 feet below normal pool elevation.

In certain areas of the lakes, Zone E wetland tree and shrub species will be planted at depths of about 0 to 2.0 feet below normal pool elevation using 1 gallon stock planted on 10-foot centers, probably in groups of 5. Zone F transitional and upland trees will also be established at various locations along lake shorelines. These will be planted landward from the normal pool elevation to about 1.0' below this level using 1 gallon stock planted on 10-foot centers, likely in groups of 6.

Species used in these plantings will be selected from the list provided. Alternative species may be used depending on availability and site condition. No one species will comprise more than 30% of a given vegetation layer. Refer to Section A-A for an illustration of the littoral zone treatment. Areas indicate on the plan for Zone D, E, F plantings are approximate and provided only to indicate the concept. The actual number of these areas and their location may change by the time of establishment.

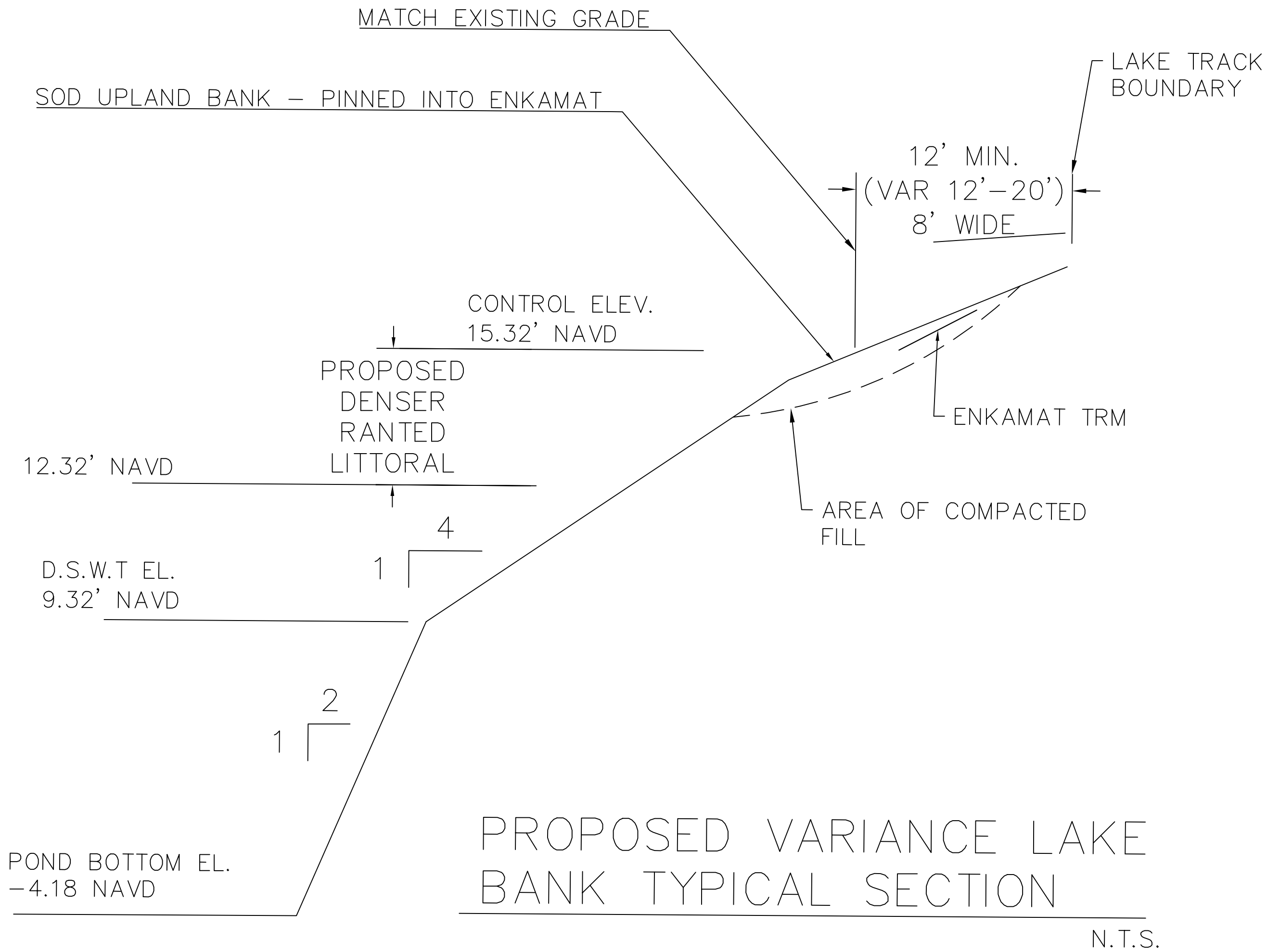
LITTORAL

ZONE A SPECIES

MAIDENCANE
SOFT RUSH
BLUE FLAG IRIS
GOLDEN CANNA
SAND CORDGRASS
SWAMP LILY
SMARTWEED
KNOTGRASS
LIZARD'S-TAIL
CINNAMON FERN
ROYAL FERN

ZONE B SPECIES

PICKERELWEED
COMMON ARROWHEAD
COASTAL ARROWHEAD
BULRUSH



PLANTING LEGEND							
LAKE #	VARIANCE BANK LENGTH	TOTAL LAKE PERIMETER @ CONTROL EL. (LF)	ZONE A @ 3' WIDTH (SF)	ZONE B AREA @ 9' WIDTH (SF)	ZONE A & B PLANTS REQUIRED @ 3' O.C.	VARIANCE ADDED LITTORAL PLANTINGS	TOTAL ZONE A+B LITTORAL PLANTS
1	1156	2681	8043	24129	2681	1156	3837
2	1392	1392	4176	12528	1392	1392	2784
3	2452	2906	8718	26154	2906	2452	5358
4	1085	4011	12033	36099	4011	1085	5096
5		2233	6699	20097	2233		
6	869	896	2688	8064	896	896	1792
7		4673	14019	42057	4673		

PLEASE REFER TO SHEET 4 FOR ORIGINAL ZONE D,E & F PLANTING LOCATIONS

6200 Whiskey Creek Drive Fort Myers, FL 33919 Phone : (239) 985-1200 Florida Certificate of Authorization No.1772 Naples - Fort Myers		LDO 2021-00847 VARIANCE REQUEST DETAIL SHEET		CROSS CREEK ESTATES COMM. ASSN. FORT MYERS, FLORIDA 33912 LAKE BANK RESTORATION		THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED & SEALED BELOW: RICHARD E. BRYLAWSKI, P.E. FLORIDA PROFESSIONAL ENGINEER EXPIRATION DATE: 12/31/2024		DESIGNED: REB DATE: 12/11/23 DRAWN: MM DATE: 12/11/23 CHECKED: REB DATE: 12/11/23 VERT. SCALE: nts HORZ. SCALE: nts DRAWING NO. 2021.066 PROJECT NO. 21.66 SHEET NO. 2	
HOLE MONTES a BOWMAN COMPANY		LDO 2021-00847 VARIANCE REQUEST DETAIL SHEET		CROSS CREEK ESTATES COMM. ASSN. FORT MYERS, FLORIDA 33912 LAKE BANK RESTORATION		THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED & SEALED BELOW: RICHARD E. BRYLAWSKI, P.E. FLORIDA PROFESSIONAL ENGINEER EXPIRATION DATE: 12/31/2024		DESIGNED: REB DATE: 12/11/23 DRAWN: MM DATE: 12/11/23 CHECKED: REB DATE: 12/11/23 VERT. SCALE: nts HORZ. SCALE: nts DRAWING NO. 2021.066 PROJECT NO. 21.66 SHEET NO. 2	