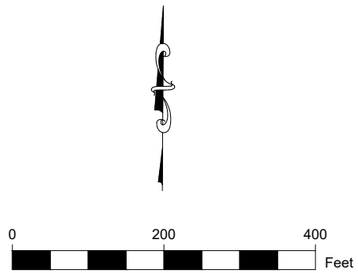
Erosion and Sedimentation Control Plan for Walnut Creek Community Development District Canal

PROJECT NOTES:

1. GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONSTRUCTION DOCUMENTS.
2. PLANS WERE PREPARED ACCORDING TO INFORMATION COLLECTING IN THE FIELD WITH SURVEYING INSTRUMENTS, HISTORICAL DATA FROM PUBLICLY AVAILABLE SOURCES, AND PALM BEACH COUNTY GIS DATA ON PARCELS, LOTS, ROADWAY, ETC.
3. THIS IS NOT A BOUNDARY SURVEY.
4. SURVEY WAS PERFORMED ON 12/11/2024 BY LANDSHORE ENTERPRISES, LLC.
5. THE SCALES OF THE PLANS MAY HAVE CHANGE DUE TO REPRODUCTION, PLAN SHEETS ARE RECOMMENDED TO BE PRINTED OR PLOTTED ON 11"X17" PAPER.
6. COORDINATE SYSTEMS HEREON FOR THE HORIZONTAL SYSTEM ARE BASED ON NORTH AMERICA DATUM OF 1983 (NAD 83) FLORIDA STATES PLANES, East ZONE AND FOR THE VERTICAL SYSTEM ARE BASED ON NORTH AMERICA VERTICAL DATUM 1988 (NAVD 88), AND THE UNITS ARE BASED ON US FOOT.
7. THE BEARINGS VALUES SHOWN HEREON ARE BASED ON GPS/RTK OBSERVATIONS AND RTK CORRECTIONS FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION, FLORIDA PERMANENT REFERENCE NETWORK.
8. THE PROJECT SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE. THERE MAY BE INSTRUMENTS OF RECORD AND NOT OF RECORD, AFFECTING THE SUBJECT PARCEL THAT ARE NOT SHOWN ON THIS SURVEY.
9. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL AT 1-(800)-432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.

Call 48 hours before you dig
1-800-432-4770
It's the law!
Sunshine State One Call of Florida, Inc.

VICINITY MAP



SCALE: 1" = 200'

Section 10 Township 51 South, Range 41 East

Section	S10 T51S R41E
Meridian	Tallahassee
State	Florida
Source	USFS
GLO	Township Records

MARCH 07, 2025

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PIETER M. LOMBARD LICENSE No 66596 STATE OF FLORIDA PROFESSIONAL ENGINEER

66596
FLORIDA PROFESSIONAL ENGINEER REGISTER NUMBER

ENGINEER: PIETER M. LOMBARD

REVISIONS	DATE	BY

INDEX OF SHEETS

PREPARED FOR

Walnut Creek Community Development District

1800 NW 76th Ave
Pembroke Pines, FL 33024

PREPARED BY

Landshore Enterprises, LLC
"Your Shoreline Protection Specialists"
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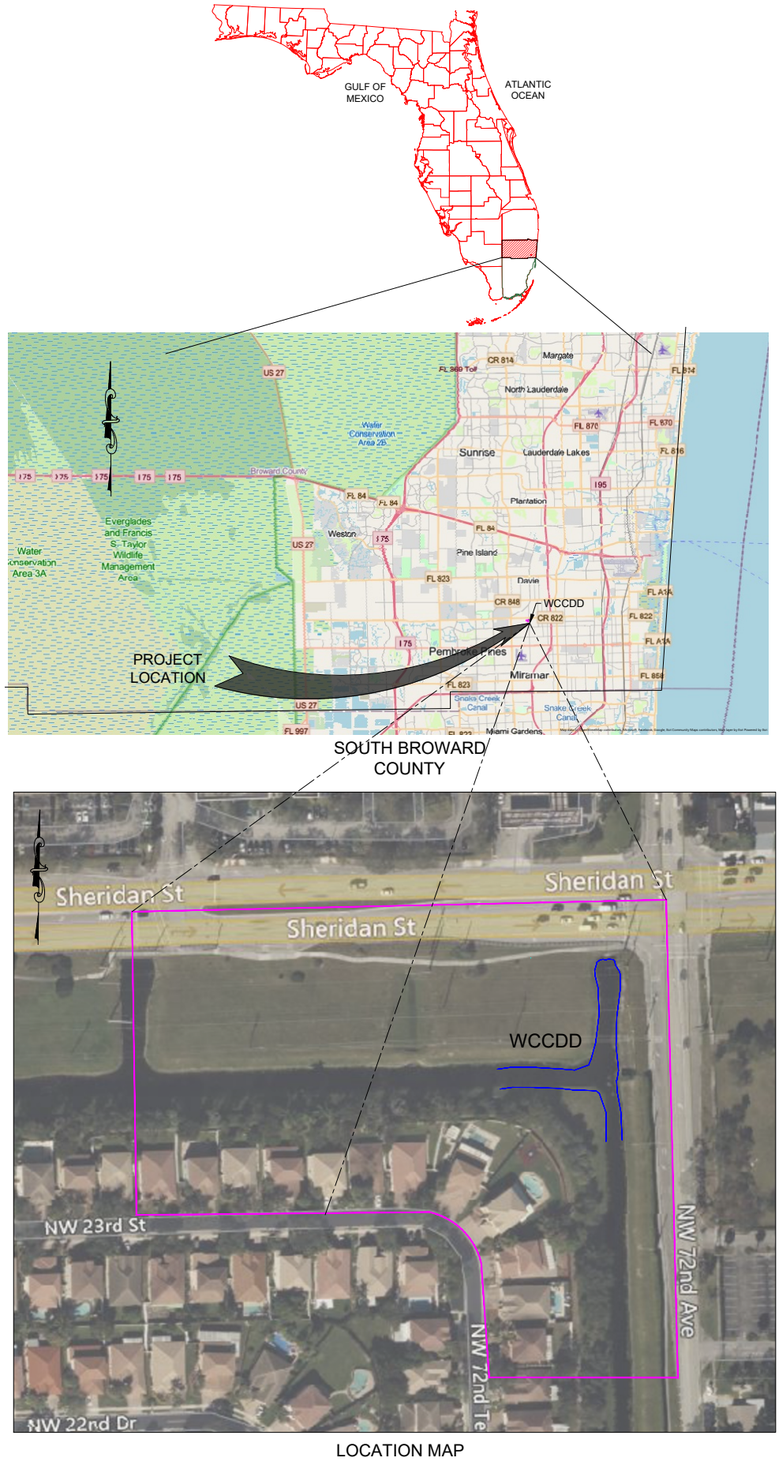
Venice, FL 34293
Office: 941-303-5238
Fax: 941-218-6113
E-mail: info@landshore.com

PIETER M. LOMBARD,
ENGINEER, P.E.
FLORIDA REGISTRATION No. 66596

DESIGNED BY:	NV
DRAWN BY :	NV
CHECKED BY:	AVDB
APPROVED BY:	PML
PROJECT NO:	2024-064

SHEET 1 OF 17



LOCATION MAP

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF GOVERNMENT ENTITIES WHICH WILL APPLY, AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.
2. ALL CONSTRUCTION SHALL BE PERFORMED IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
4. UPON RECEIPT OF NOTICE OF AWARD AND AFTER OBTAINING AN ENGINEERING CONSTRUCTION PERMIT FROM APPLICABLE AGENCIES, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE CLIENT, THE CONTRACTOR, AND THE ENGINEER OF RECORD.
5. CONTRACTOR SHALL CONTACT STATE 811, AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
6. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD AND UNDERGROUND UTILITIES.
7. EXISTING UNDERGROUND UTILITIES, IF SHOWN ON THE DRAWINGS, HAVE BEEN SHOWN BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE REQUIRED TO MARK AND CLEARLY DELINEATE LOCATIONS OF EXISTING UTILITIES WITHIN AREAS OF WORK PRIOR TO EXCAVATION TO AVOID DAMAGE. THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO LOCATE, IDENTIFY AND MARK EXISTING UTILITIES BY FIELD VERIFICATION, COORDINATION WITH UTILITY COMPANIES AND ELECTRONIC OR OTHER SUCH DETECTION TECHNOLOGY AND MEANS AND SHALL BEAR ALL COSTS FOR THIS WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND COSTS TO CORRECT DAMAGES RESULTING FROM FAILURE TO TAKE ALL NECESSARY PRECAUTIONS INCLUDING LOCATING, MARKING AND CAREFUL EXCAVATION. (CONTRACTOR SHALL AVOID DAMAGING EXISTING IRRIGATION SYSTEMS. IN CASE OF DAMAGE, THE CONTRACTOR SHALL REPLACE IRRIGATION SYSTEMS TO MATCH EXISTING CONDITIONS AND LOCATION).
9. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.
10. CONTRACTOR SHALL PROVIDE HIS OWN LINE AND GRADE FROM HORIZONTAL AND VERTICAL CONTROL.
11. FOR EACH PROJECT AREA, VERTICAL CONTROL IS BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
12. ANY N.A.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND PROPERLY REFERENCED BY A REGISTERED-PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE STATE BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE.
13. ALL STATIONS AND OFFSETS REFER TO [BASELINE] OF CONSTRUCTION, UNLESS OTHERWISE STATED.
14. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM PLANS FOR CONSTRUCTION PURPOSES.
15. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF UNDERGROUND WIRES AND POLES IN THE PROJECT AREA. THE METHOD OF CONSTRUCTION IN THESES LOCATIONS MUST COMPLY WITH ALL OSHA SAFETY STANDARDS. THE CONTRACTOR SHALL INSPECT THESE SITES AND BE RESPONSIBLE FOR DETERMINING WHAT METHOD OF PREPARATION AND CONSTRUCTION WILL BE USED TO COMPLY WITH THESE REQUIREMENTS.
16. THE CONTRACTOR SHALL NOTIFY THE CLIENT AT LEAST 24 HOURS PRIOR TO BEGINNING OF WORK.
17. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, GRAVITY SEWER, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
18. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE CLIENT ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE WORK, EQUIPMENT, EMPLOYEES OR SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
19. CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC FLOW PATTERNS THROUGHOUT ALL WORK OPERATIONS. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CITY, STATE AND LOCAL GOVERNMENT CODES.
20. ALL EXCAVATIONS SHALL COMPLY WITH OSHA'S EXCAVATION SAFETY STANDARDS AND TRENCH SAFETY CODES, CONTRACTOR SHALL FURNISH THE OWNER WITH WRITTEN ASSURANCE THAT HE WILL COMPLY WITH THESE REGULATIONS.
21. THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH.
22. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
23. CONTRACTOR TO RELOCATE TREES AS DIRECTED BY THE CLIENT. CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING AT HIS OWN EXPENSE ANY ITEMS, INCLUDING BUT NOT LIMITED TO NEARBY PROPERTIES AND EXISTING DRAINAGE INFRASTRUCTURE, DAMAGED DUE TO HIS PERSONNEL OR EQUIPMENT INSIDE AND/OR OUTSIDE OF THE CONSTRUCTION AREA.
25. CONTRACTOR SHALL ENSURE THAT ALL MUD OR ANY OTHER TYPE OF DEBRIS IS CLEANED FROM ADJACENT ROADWAYS (WHERE APPLICABLE) AT THE END OF EACH DAY. CONTRACTOR SHALL BE LIABLE FOR ANY PERSONAL OR PROPERTY DAMAGE CAUSED BY ANY TYPE OF DEBRIS LEFT ON ROADWAYS AND/OR PEDESTRIAN WAYS.
26. CONTRACTOR SHALL AVOID DAMAGING EXISTING IRRIGATION SYSTEMS. IF PLANS AND BLUEPRINTS ARE NOT PROVIDED OR AVAILABLE THE CONTRACTOR WILL NOT BE RESPONSIBLE.
27. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.

SOIL EROSION, SEDIMENT, AND TURBIDITY CONTROL GENERAL NOTES

1. THIS PROJECT IS SUBJECT TO ALL RELATED ENVIRONMENTAL REQUIREMENTS WHICH INCLUDE A "CONTROL OF EROSION AND SEDIMENTATION PLAN". THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION DUE TO SEDIMENTATION RUNOFF FROM THE SITE PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER AS REQUIRED.
2. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN FOR DAMAGE AND GENERAL EFFECTIVENESS. ANY DAMAGED OR INEFFECTIVE CONTROLS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
3. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED, IF DEEMED NECESSARY, BY THE ON-SITE INSPECTOR.
4. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. TEMPORARY AND PERMANENT MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL THE AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION.
6. ALL CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO ANY PUBLIC RIGHT-OF-WAY. THIS SHALL REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS REQUIRE. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHT-OF-WAY OR INTO STORM DRAINS SHALL BE PROMPTLY REMOVED BY CONTRACTOR.
7. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED AND MAINTAINED AS CLOSE AS POSSIBLE TO THE CONSTRUCTION OPERATION UPSTREAM AND DOWNSTREAM OF CANALS. TURBIDITY BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND DETAILS.
8. TURBIDITY BARRIERS WILL BE RELOCATED ALONG THE SHORELINE AS THE SECTIONS/PHASES OF CONSTRUCTION ARE COMPLETED.
9. TURBIDITY SCREENS OR EQUIVALENT SHALL BE PROPERLY EMPLOYED AND MAINTAINED AS NECESSARY DURING CONSTRUCTION ACTIVITIES SO THAT TURBIDITY LEVELS DO NOT EXCEED 29 NTU's ABOVE NATURAL BACKGROUND 50 FEET DOWNSTREAM OF POINT OF DISCHARGE. IF TURBIDITY LEVELS EXCEED THESE LIMITS, PROJECT ACTIVITIES SHALL IMMEDIATELY CEASE, AND WORK SHALL NOT RESUME UNTIL TURBIDITY LEVELS DROP TO WITHIN THESE LIMITS.
10. CONTRACTOR SHALL SOD GRASS AREAS DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
11. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
12. IF 1 ACRE OR MORE IS DISTURBED, A NPDES GENERAL PERMIT IS REQUIRED.

REVISIONS		
DATE	BY	DESCRIPTION

Erosion and Sedimentation Control Plan for Walnut Creek Community Development District Creek

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E-mail: info@landshore.com

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GENERAL NOTES

PROJECT NO.	SHEET	OF
2024-064	2	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	N.T.S.

LEGEND

SYMBOL/LINE	DESCRIPTION
℄	BASELINE
N32°59'57.19"E	BEARING
	CATCH BASIN
℄	CENTERLINE
Ø	DIAMETER
⊠ 2.94	EXISTING GROUND ELEVATION (FROM SURVEY)
	HYDRANT
	LIGHTPOLE
	OFFICIAL BENCHMARK (BM)
	PALM TREES
	POLE
	SET OR FOUND SURVEY CONTROL POINT
	SIGN (SINGLE SUPPORT)
	SIGNAL MAST ARM
	SURVEY CONTROL POINT (SCP)
	SURVEY CONTROL POINT (SCP/TBM)
	TEMPORARY BENCHMARK (TBM)
	TREES
	CANAL MAINTENANCE EASEMENT
	CANAL RIGHT OF WAY
	CANAL RIGHTS ON RESERVATION
	EFT 6' SACRIFICIAL TUBE
	EFT 7.5' BASE TUBE
	EFT 7.5' SUPPORTING TUBE
	EFT 10' BASE TUBE
	EFT 10' SUPPORTING TUBE
	EXISTING GEOTUBE DONE BY OTHERS
	EXISTING ECO-FILTER TUBE
	EXISTING FENCE
X X	EXISTING CHAIN LINK FENCE
	EXISTING GUARDRAIL
	EXISTING SHRUBS
	GRASS SOD
	FLEXAMAT
	GUY ANCHOR
	PRIORITY 01: SERIOUS CONDITION
	PRIORITY 02: POOR CONDITION
	PRIORITY 03: FAIR CONDITION
X X X	PROPOSED CHAIN LINK FENCE
	PROPOSED HANDRAIL
	SHEET PILING
	FILTER POINT FABRIC

SYMBOL/LINE	DESCRIPTION
1 / 28	DETAIL NUMBER
	TYPICAL DETAIL CALL OUT
	DETAIL SHEET NUMBER
	FILTER POINT FABRIC (FPFs)
	BEDDING STONE/CRUSHED CONCRETE
	EMBANKMENT
	REGULAR EXCAVATION
	RIP-RAP
	RIP-RAP (BOULDER)
	CONCRETE BLOCK EROSION CONTROL MAT (FLEXAMAT/SHOREFLEX). TOP VIEW
	PLANTS
	SEAWALL
	STACKED CANAL BANK STABILIZATION (CBS)
	STRUCTURAL FILL
	EROSION CONTROL PANEL
	TREE FOLIAGE
PTOB	PROPOSED TOP OF BANK
TOB TOB	TOP OF BANK
TOS TOS	TOP OF SLOPE
	TURBIDITY BARRIER
	WARNING BARRIER FENCE
WL WL	WATER LINE
1 2	TREE AND PALM TO BE REMOVED
	LOCAL HARD SURFACE ROAD
00	INTERSTATE ROUTE
TOLL 00	TOLL ROUTE
00	U.S ROUTE
00	STATE ROUTE
00	DIVISION OF PLANNING ROUTE DESIGNATION
00	COUNTY ROUTE
	RAILROAD TRACK
	MULTIPLE RAILROAD TRACK
	TRI-RAIL STATION
	RAILROAD STATION
	GRADE CROSSING
	RAILROAD BELOW

ABBREVIATIONS

ASPH =	ASPHALT
℄ =	BASELINE
BLCP =	BASELINE CONTROL POINT (TO BE SET BY CONTRACTOR)
BM =	BENCHMARK
℄ =	CENTERLINE
C.L.F. =	CHAIN LINK FENCE
C.M.E. =	CANAL MAINTENANCE EASEMENT
CAP =	CORRUGATED ALUMINUM Pipe
CBS =	CANAL BANK STABILIZATION
CES =	CONTROL ELEVATION STRUCTURE
CMP =	CORRUGATED METAL PIPE
COA =	COLLAPSED AREA
CONC =	CONCRETE
COR =	CORNER
CS =	CLEAN SAND
CSLAB =	CONCRETE SLAB
DC=	DATA COLLECTOR
DIP =	DUCTILE IRON Pipe
DWT=	DESIGN WATER TABLE
ELEV =	ELEVATION
EOP =	EDGE OF PAVEMENT
EOW =	EDGE OF WATER
ERA =	ERODED AREA
ESMT =	EASEMENT
ETOB =	EXISTING TOP OF BANK
EXIST =	EXISTING
EG =	EXISTING GROUND
FG =	FINISH GRADE
FDOT =	FLORIDA DEPARTMENT OF TRANSPORTATION
FT =	FEET
G =	GAS
GR =	GRADE
HFT=	HOUSE FOOTPRINT
HOR =	HORIZONTAL
HWT =	HIGH WATER TABLE
INV =	INVERT
IRR =	IRRIGATION
LB =	POUND
LT =	OFFSET LEFT
MUTCD =	MANUAL OF UNIFORM TRAFFIC DEVICES
N/A =	NOT APPLICABLE
NAD =	NORTH AMERICAN DATUM
NAVD =	NATIONAL AMERICAN VERTICAL DATUM
NG=	NATURAL GRADE
NGVD =	NATIONAL GEODETIC VERTICAL DATUM
NTS =	NOT TO SCALE
NTU =	NEPHELOMETRIC TURBIDITY UNITS
OWT =	OBSERVED WATER TABLE
℄ =	PROPERTY LINE
PB =	PLAT BOOK
PED =	PEDESTRIAN
PG =	PAGE
PI =	POINT OF INTERSECTION
P&P =	PLAN AND PROFILE
PR=	PRACTICE RANGE
PROP. =	PROPOSED
PVC =	POLYVINYL CHLORIDE
PVMT =	PAVEMENT
R/W =	RIGHT OF WAY
RT =	OFFSET RIGHT
SAN =	SANITARY
SCP =	SURVEY CONTROL POINT
SDWK =	SIDEWALK
WMD =	WATER MANAGEMENT DISTRICT
SP =	SHEET PILING
SPK =	SPRINKLER
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
ST =	STORM
STA =	STATION
STD =	STANDARD
TBM =	TEMPORARY BENCHMARK
TOBP =	TOP OF BANK (PROPOSED)
TOB =	TOP OF BANK
TOS =	TOP OF SLOPE
TYP =	TYPICAL
UT =	UTILITY
VERT =	VERTICAL
W =	WATER
WD =	WOOD DOCKS
WL =	WATERLINE
WCCDD =	WALNUT CREEK COMMUNITY DEVELOPMENT DISTRICT
XS =	CROSS SECTION

REVISIONS		
DATE	BY	DESCRIPTION

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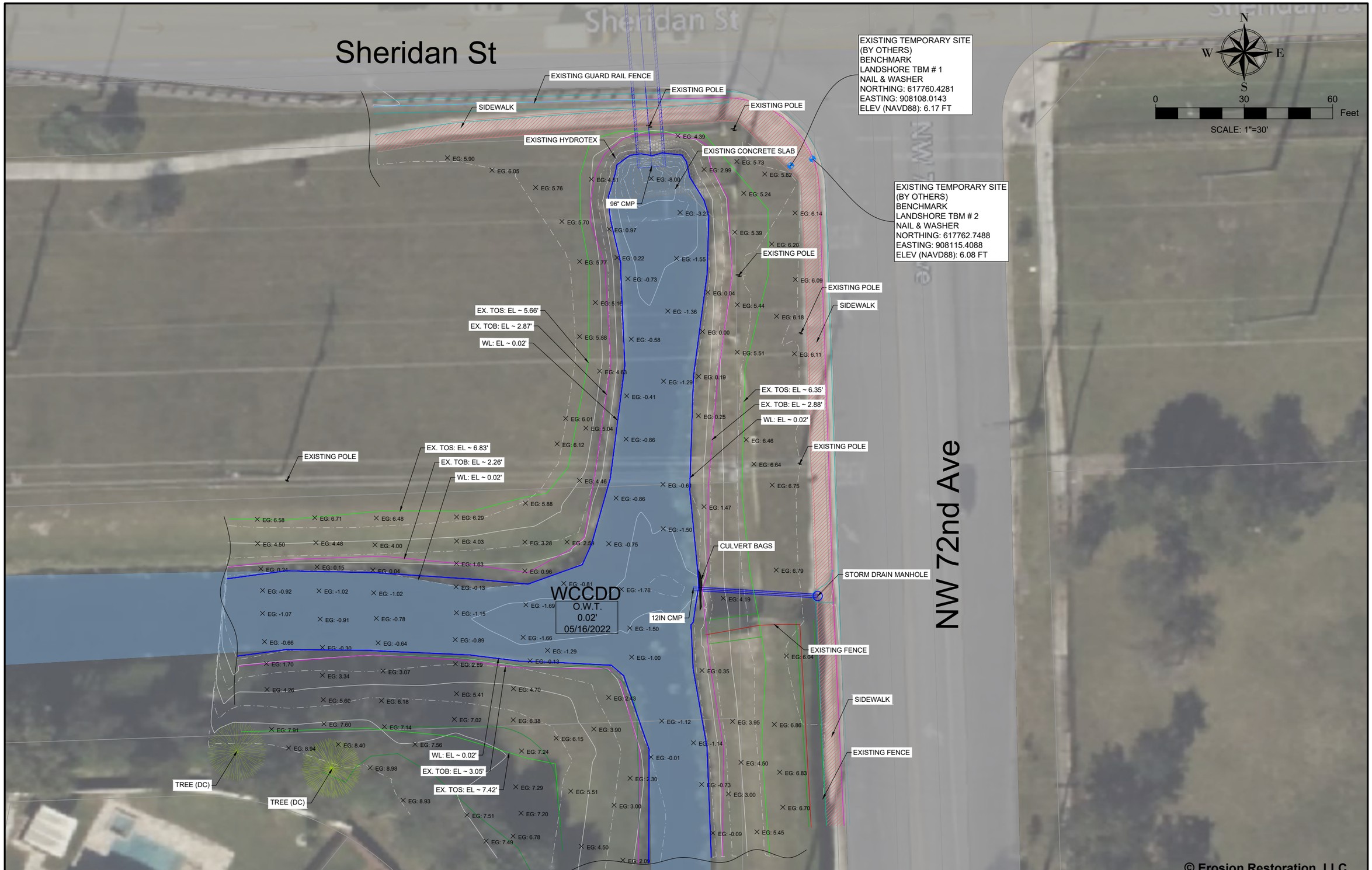
LEGEND AND ABBREVIATIONS

PROJECT NO.	SHEET	OF
2024-064	3	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	NTS



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TOPOGRAPHIC PLAN

PROJECT NO.	SHEET	OF
2024-064	4	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	1"=30'

Sheridan St

BASELINE OF CONTRUCTION

0+00

SIDEWALK

EXISTING HYDROTEX

EXISTING CONCRETE SLAB

EXISTING TEMPORARY SITE
(BY OTHERS)
BENCHMARK
LANDSHORE TBM # 1
NAIL & WASHER
NORTHING: 617760.4281
EASTING: 908108.0143
ELEV (NAVD88): 6.17 FT

EXISTING TEMPORARY SITE
(BY OTHERS)
BENCHMARK
LANDSHORE TBM # 2
NAIL & WASHER
NORTHING: 617762.7488
EASTING: 908115.4088
ELEV (NAVD88): 6.08 FT

N
W E
S

0 30 60 Feet

SCALE: 1"=30'

5/17 INSTALL TYPE I FLOATING TURBIDITY BARRIER

L=17.884, R=112.329
Δ=009.1222

0+50

STA. 0+65

1

BEARING AND DISTANCE OF BASELINE

SIDEWALK

SOIL SAMPLE
N 617639.0176
E 908053.3587
U.S.C.S: (SP) Poorly graded sand
AASHTO: A-3(0) Fine sand that is nonplastic
Density Dry = 103.68 lb/ft³
Angle of Internal Friction = 27.5°

STA. 1+05

1+00

2

51.00'
S3° 23' 31.28"W

STA. 31+74

STA. 31+45

STA. 30+88

STA. 1+40

WCCDD
O.W.T.
0.02'
05/16/2022

1+50

3

INSTALL TYPE I FLOATING TURBIDITY BARRIER 5/17

CULVERT BAGS

STORM DRAIN MANHOLE

L=50.724, R=200.000
D=014.5312

30+00

30+50

BASELINE OF CONTRUCTION

31+89

31+50

31+00

L=29.208, R=200.000
Δ=008.3675

2+00

5/17 INSTALL TYPE I FLOATING TURBIDITY BARRIER

BEARING AND DISTANCE OF BASELINE

STA. 2+10

4

30.45'
S11° 08' 21.1"E

7

6

5

TREE (DC)

TREE (DC)

39.55'
S4° 11' 32.90"E

2+50

INSTALL TYPE I FLOATING TURBIDITY BARRIER 5/17

2+74

NW 72nd Ave

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PIETER M. LOMBARD No 80369 STATE OF FLORIDA PROFESSIONAL ENGINEER

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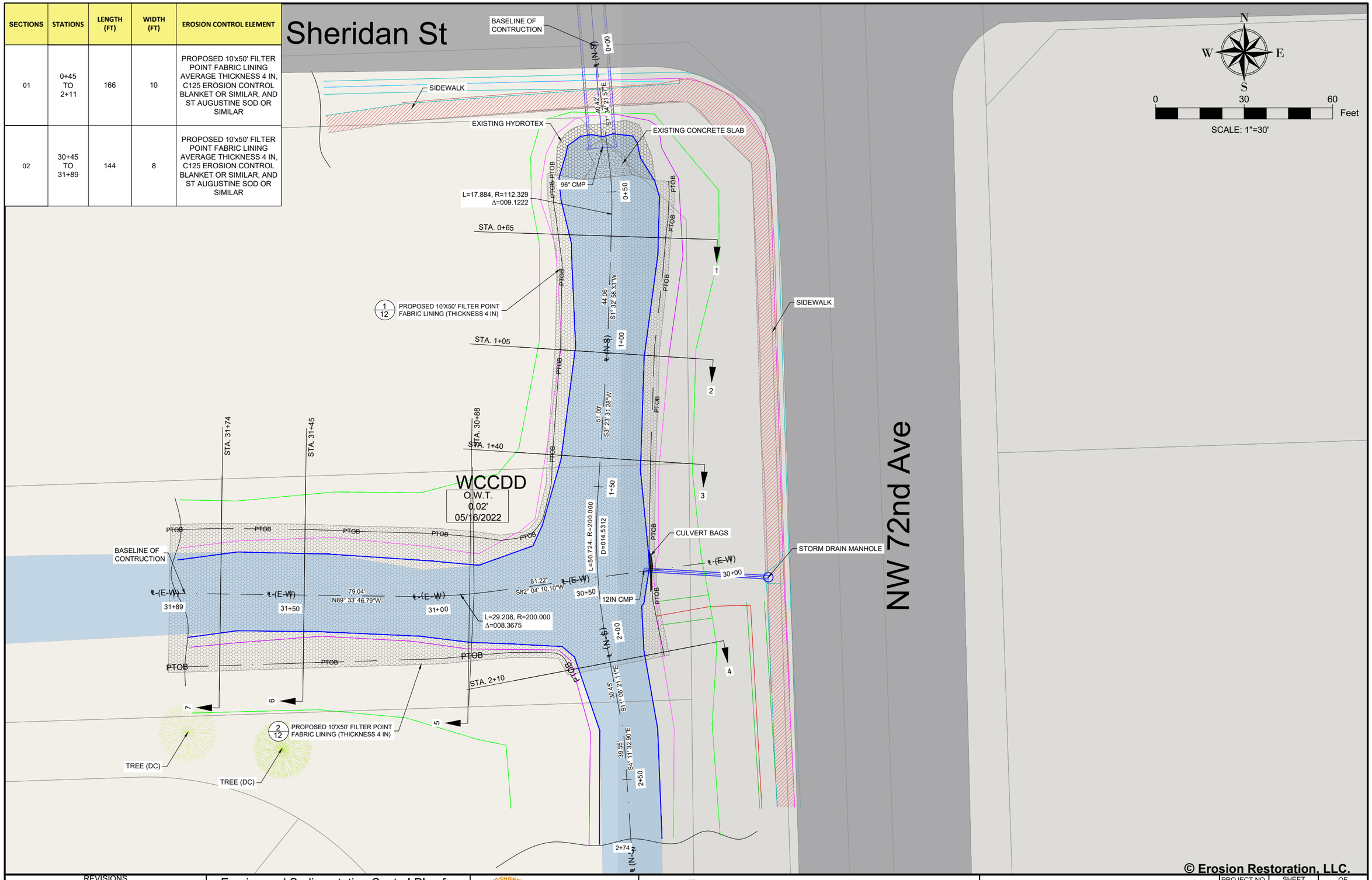
SURVEY CONTROL PLAN

PROJECT NO.	SHEET	OF
2024-064	5	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	1"=30'

SECTIONS	STATIONS	LENGTH (FT)	WIDTH (FT)	EROSION CONTROL ELEMENT
01	0+45 TO 2+11	166	10	PROPOSED 10'x50' FILTER POINT FABRIC LINING AVERAGE THICKNESS 4 IN, C125 EROSION CONTROL BLANKET OR SIMILAR, AND ST AUGUSTINE SOD OR SIMILAR
02	30+45 TO 31+89	144	8	PROPOSED 10'x50' FILTER POINT FABRIC LINING AVERAGE THICKNESS 4 IN, C125 EROSION CONTROL BLANKET OR SIMILAR, AND ST AUGUSTINE SOD OR SIMILAR



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DATE	BY	DESCRIPTION

Erosion and Sedimentation Control Plan for Walnut Creek Community Development District Creek

LANDSHORE ENTERPRISES
118 Shamrock Blvd.,
Venice, FL 34293
Office: 941-303-5238
Fax: 941-218-6113
E-mail: info@landshore.com

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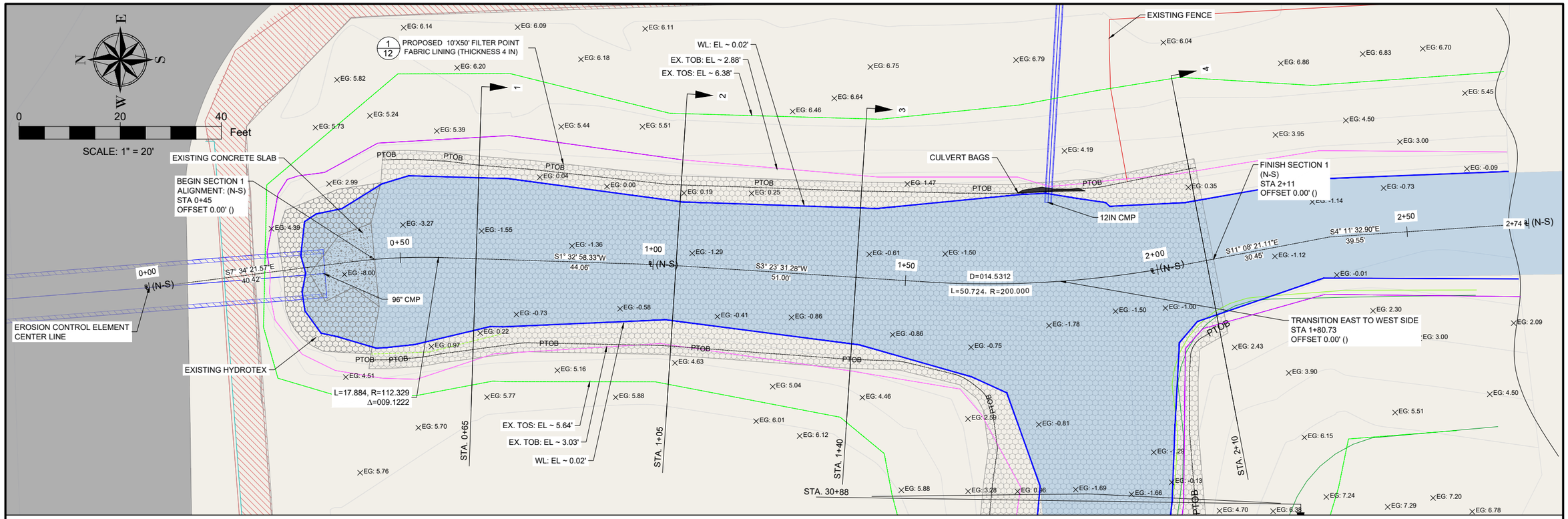
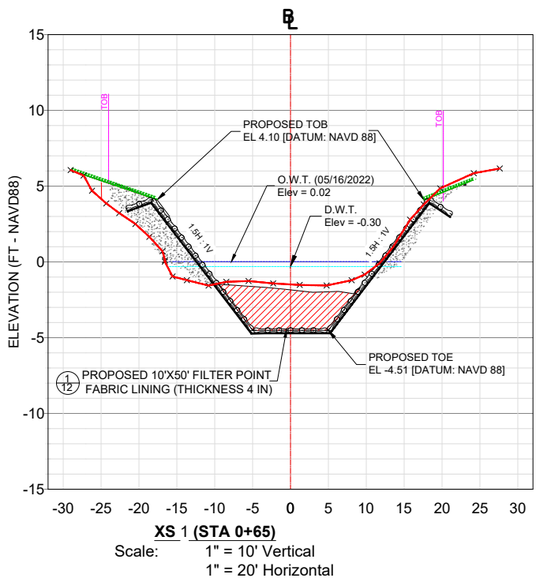
EROSION ELEMENT CONTROL PLAN

PROJECT NO.	SHEET	OF
2024-064	6	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	1"=30'



SECTION # 1 NORTH - SOUTH SIDE



XS 1 (STA 0+65)
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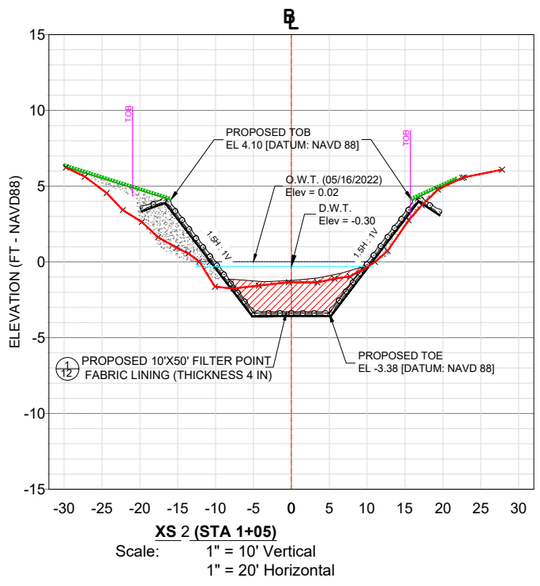
1" = 20' Horizontal



XS 2 (STA 1+05)
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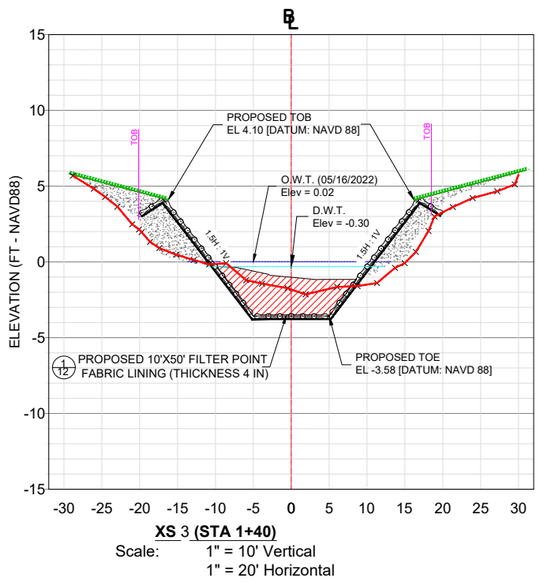

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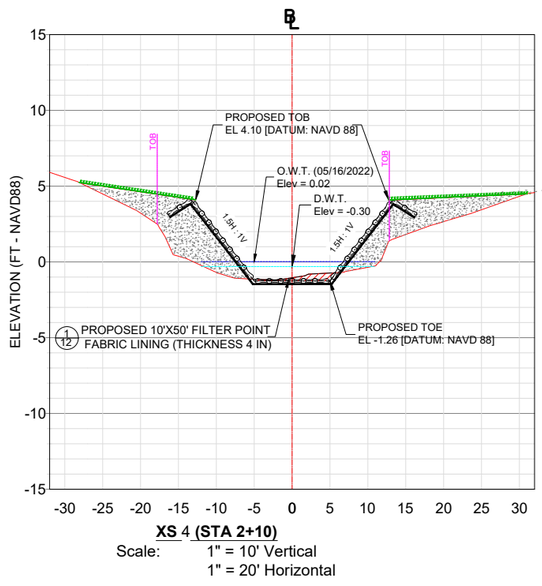

XS 4 (STA 2+10)
Scale: 1" = 10' Vertical
1" = 20' Horizontal

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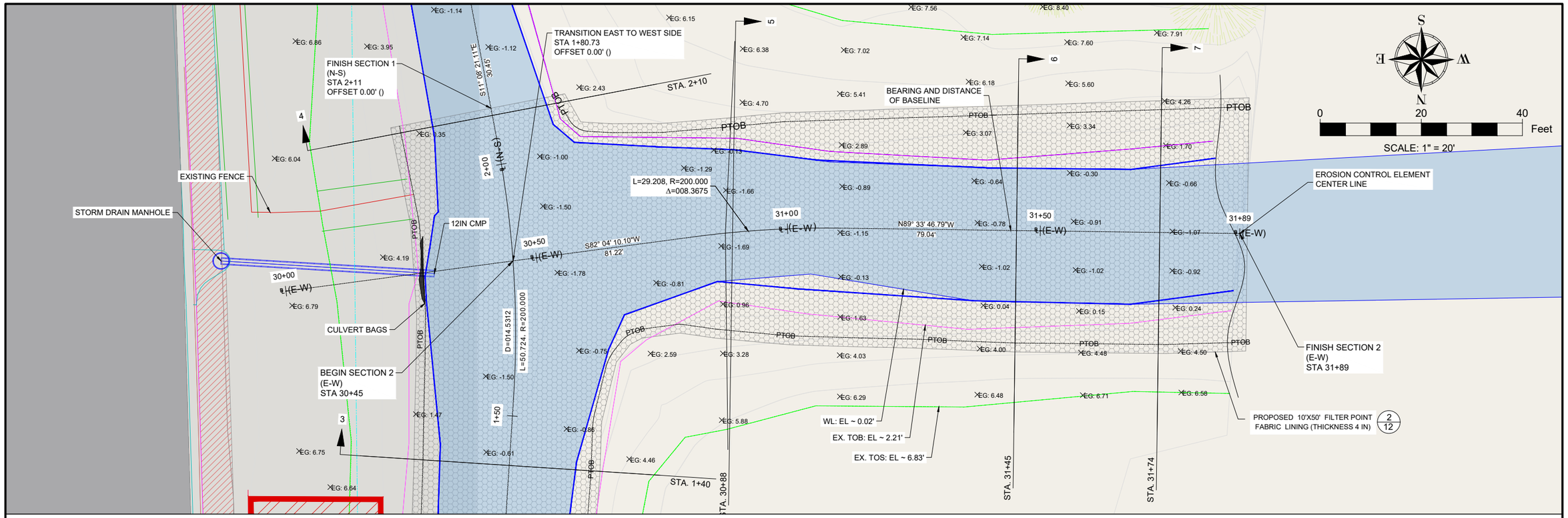
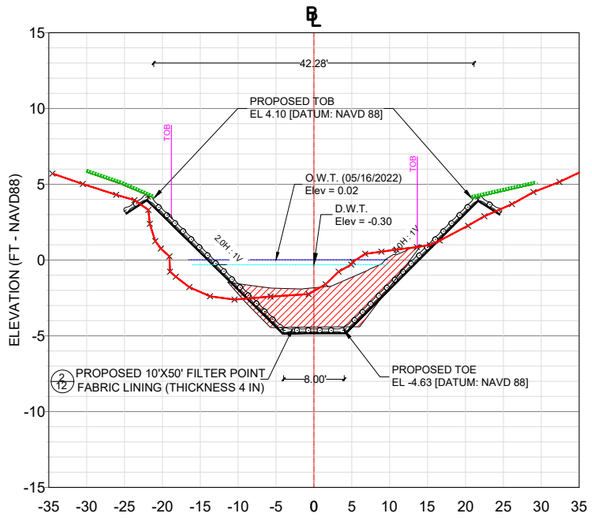
PLAN AND CROSS SECTIONS

PROJECT NO.	SHEET	OF
2024-064	7	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	AS SHOWN



SECTION # 2 EAST-WEST SIDE



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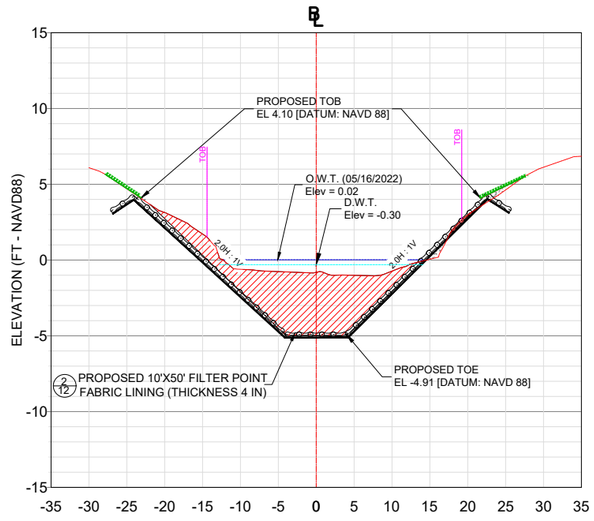
1" = 20' Horizontal



XS 6 (STA 31+45)
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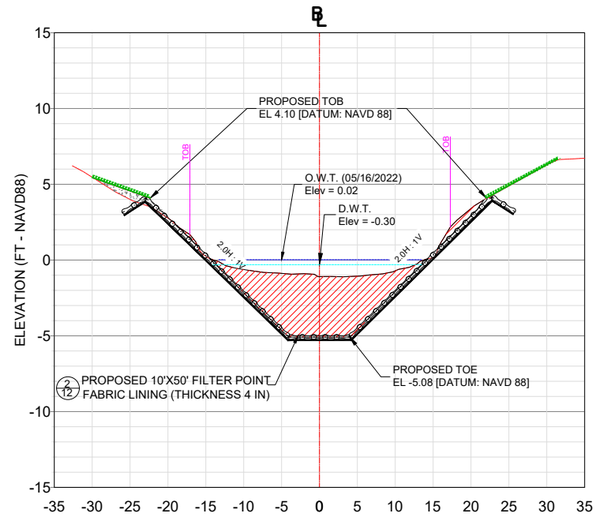
1" = 20' Horizontal



XS 7 (STA 31+74)
Scale: 1" = 10' Vertical
1" = 20' Horizontal

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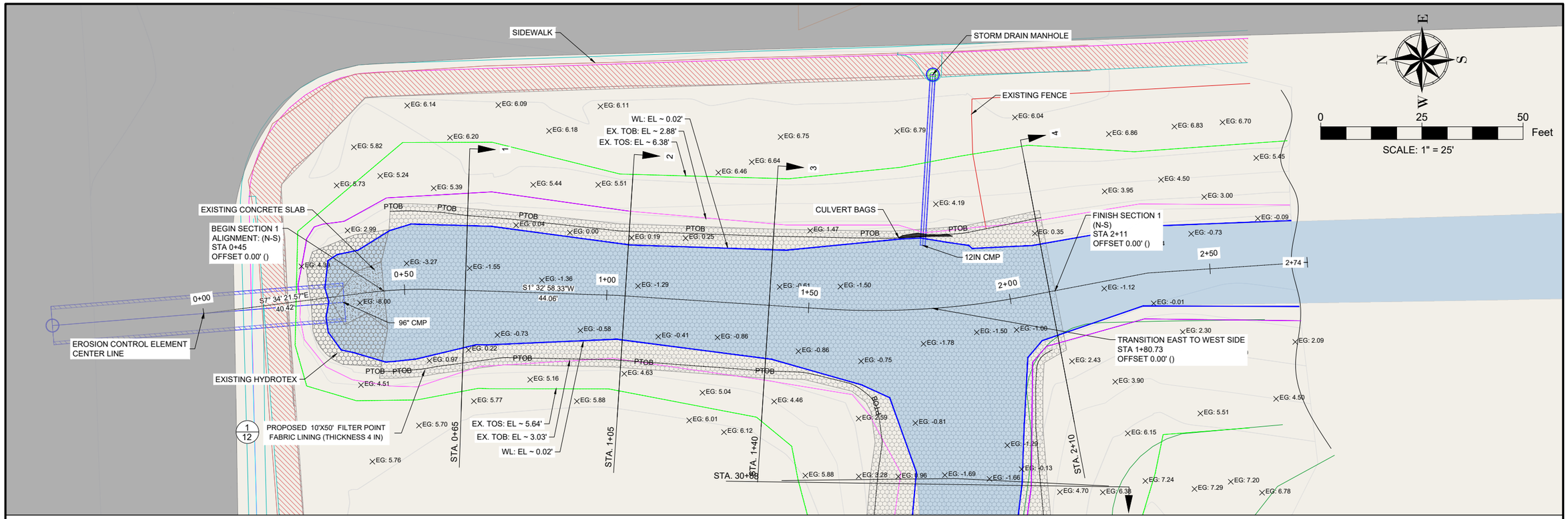
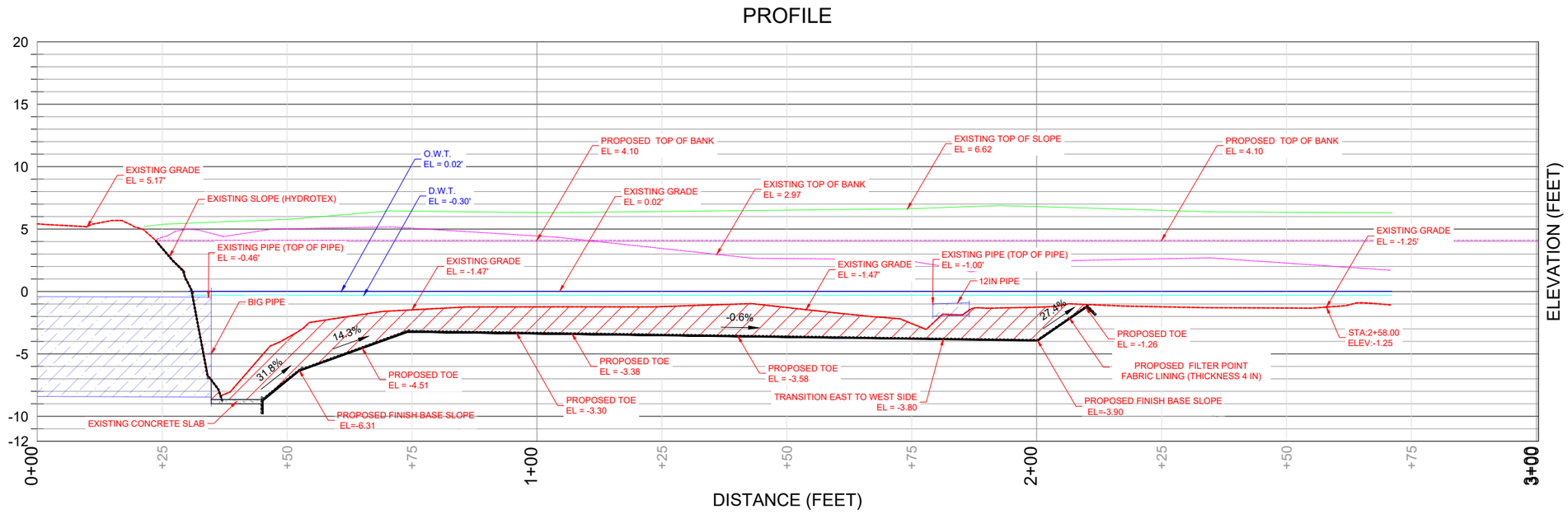
PLAN AND CROSS SECTIONS

PROJECT NO.	SHEET	OF
2024-064	8	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	AS SHOWN



SECTION # 1 PROFILE



Scale:
Horizontal = 1" = 25'
Vertical = 1" = 10'

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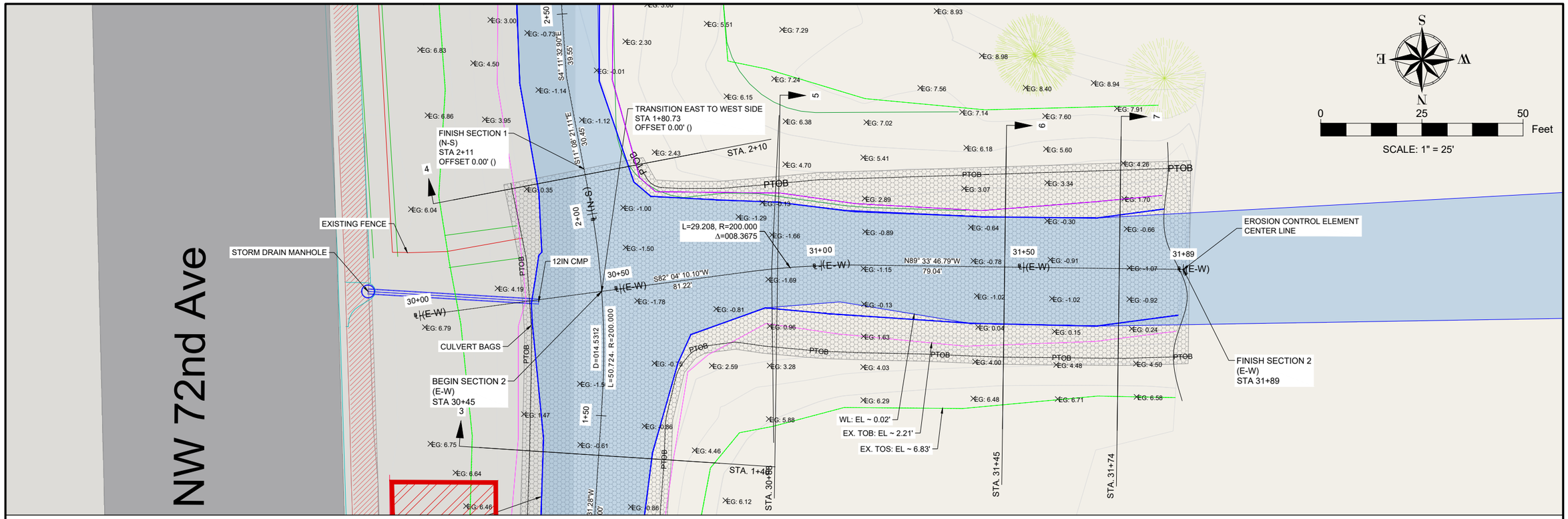
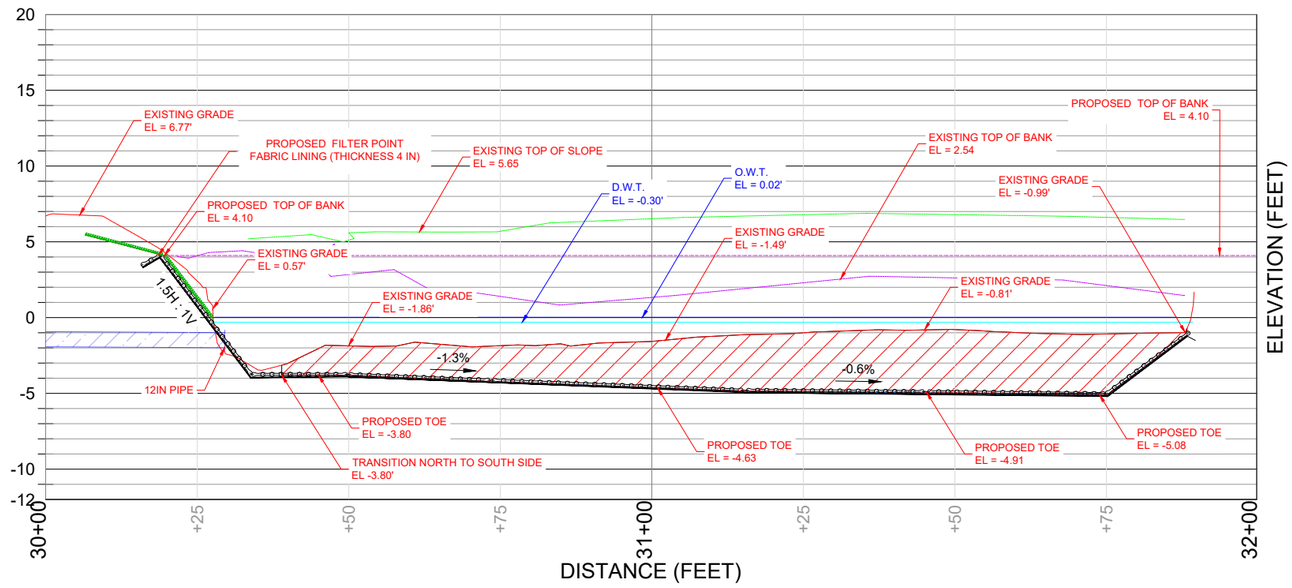
PLAN AND PROFILE

PROJECT NO.	SHEET	OF
2024-064	9	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	AS SHOWN



SECTION # 2 PROFILE



Scale:
Horizontal = 1" = 25'
Vertical = 1" = 10'

REVISIONS		
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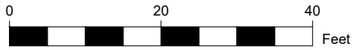
PLAN AND PROFILE

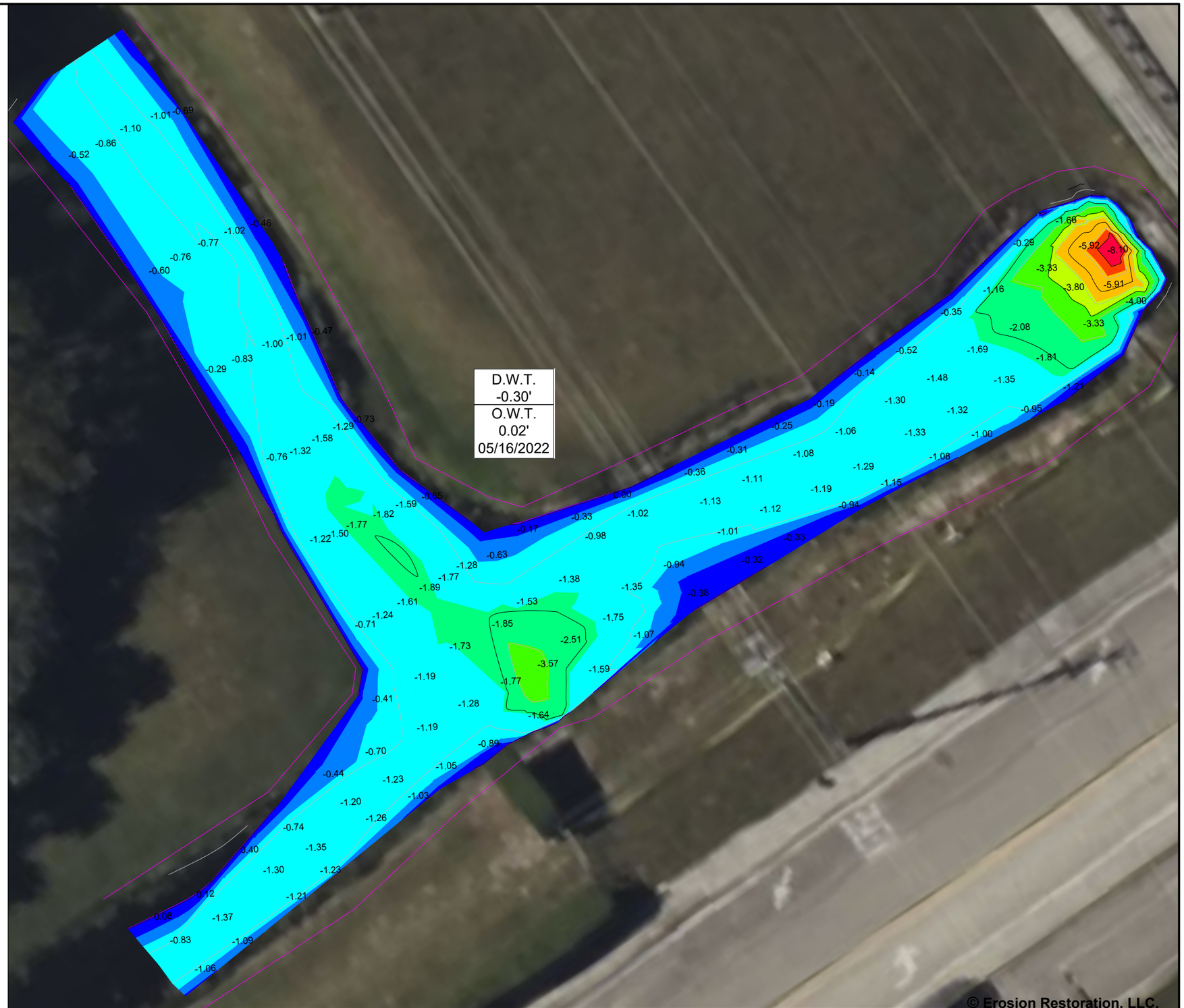
PROJECT NO.	SHEET	OF
2024-064	10	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	AS SHOWN



Bathymetric Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-8.50'	-8.00'	
2	-8.00'	-7.20'	
3	-7.20'	-5.10'	
4	-5.10'	-4.00'	
5	-4.00'	-2.90'	
6	-2.90'	-1.80'	
7	-1.80'	-0.70'	
8	-0.70'	-0.35'	
9	-0.35'	0.00'	
10	0.00'	0.02'	

Lake Characteristics

Date	: 05/16/2022
Area	: 9956 Sq. Ft.
Perimeter	: 1335 Ft.
Capacity	: 590 CY
Av. Sed.	:± 1.20 Ft
M.W.T.	: 0.02Ft
Depth	: ± 8.50Ft.
Min. Slope	: Horizontal
Max. Slope	: 0.08H:1V
Mean Slope	: 4.76H:1V



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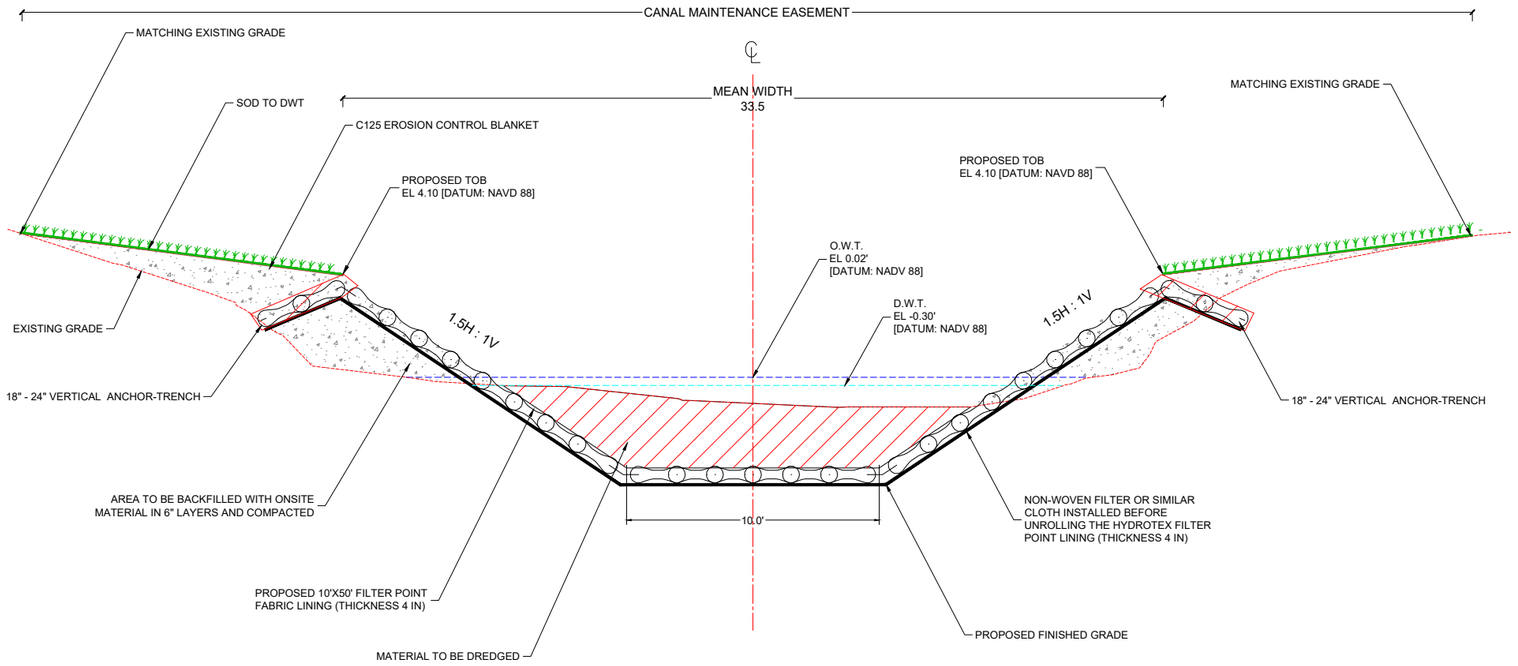
BATHYMETRIC PLAN

PROJECT NO.	SHEET	OF
2024-064	11	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	1" = 20'

1. TYPICAL SECTION: NORTH-SOUTH SIDE PROPOSED DESIGN TYP.



Worksheet for Trapezoidal Channel

Friction Method	Manning Formula
Solve For	Manning "n" and discharge
Input Data	
Roughness Coefficient (n)	0.0220
Channel Slope (ft/ft)	0.0056
Normal Depth (ft)	7.85
Left Side Slope	1.50 H : 1V
Right Side Slope	1.50 H : 1V
Bottom Width (ft)	10.00
Unit Constant, k	1.49
Upstream Bottom Elev. (ft)	-3.00
Upstream Station	0+74
Downtream Bottom Elev. (ft)	-3.59
Downtream Station	1+80
Length of Conveyance Channel (ft)	106.17
Results	
Discharge, Q (ft^3/s)	216.72
Flow area, a (ft2)	170.77
Wetted Perimeter, P (ft)	38.29
Normal Top Width, Tn (ft)	33.5
Hydraulic Radius, R (ft) =	4.46
Normal Hydraulic Depth, Dn (ft)	5.09
Normal Velocity, V (ft/s)	13.64
Normal Froude Number, F:	1.07
Flow type	Critical
Gravitational Acceleration, g (ft/s^2)	32.17
Specific Energy, Se (ft)	10.74
OutPut	
Critical Depth, yc (ft)	2.44
Critical Flow Discharge, q(ft3/s)	21.67
Critical Flow Area, Ac (ft2)	24.44
Critical Flow Velocity, Vc (ft/s)	0.89
Critical Wetted Perimeter, Pc (ft)	14.89
Critical Hydraulic Radius, Rhc (ft)	1.64
Critical Bottom Slope, Sc, ft/ft	0.00885

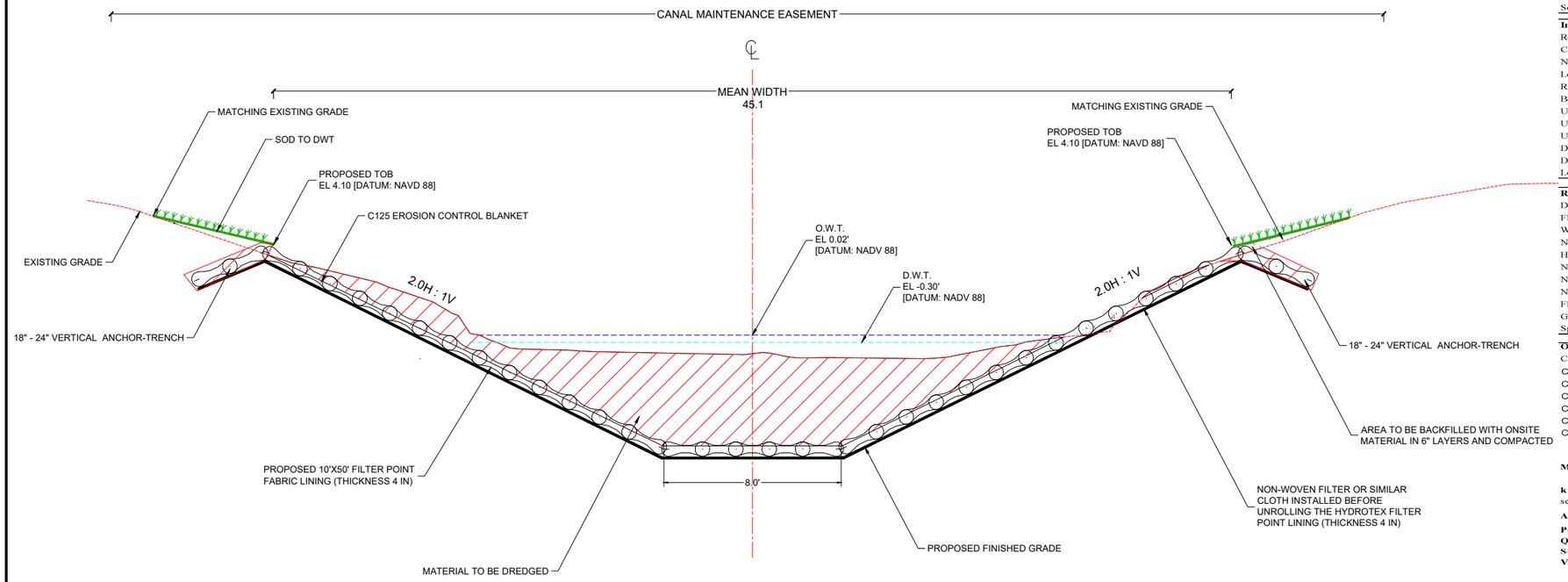
Manning Equation: $Q = VA \qquad V = \frac{k}{n}\left(\frac{A}{P}\right)^{2/3} S^{1/2}$

k is a unit conversion factor: k=1.49 for English units (feet and seconds). k=1.0 for SI units (meters and seconds).

A=Flow area of the channel.

P=Wetted perimeter which is the portion of the circumference that is in contact with water.
Q=Discharge (flow rate).
S=Downward (longitudinal) slope of the culvert.
V=Average velocity in the pipe, culvert, or channel.

2. TYPICAL SECTION: EAST-WEST SIDE PROPOSED DESIGN TYP.



Worksheet for Trapezoidal Channel

Friction Method	Manning Formula
Solve For	Manning "n" and discharge
Input Data	
Roughness Coefficient (n)	0.0220
Channel Slope (ft/ft)	0.0061
Normal Depth (ft)	9.27
Left Side Slope	2.00 H : 1V
Right Side Slope	2.00 H : 1V
Bottom Width (ft)	8.00
Unit Constant, k	1.49
Upstream Bottom Elev. (ft)	-4.43
Upstream Station	31+01
Downtream Bottom Elev. (ft)	-4.97
Downtream Station	31+90
Length of Conveyance Channel (ft)	89.00
Results	
Discharge, Q (ft^3/s)	216.72
Flow area, a (ft2)	246.18
Wetted Perimeter, P (ft)	49.47
Normal Top Width, Tn (ft)	45.1
Hydraulic Radius, R (ft) =	4.98
Normal Hydraulic Depth, Dn (ft)	5.46
Normal Velocity, V (ft/s)	15.34
Normal Froude Number, F:	1.16
Flow type	Critical
Gravitational Acceleration, g (ft/s^2)	32.17
Specific Energy, Se (ft)	12.93
OutPut	
Critical Depth, ye (ft)	2.84
Critical Flow Discharge, q(ft3/s)	27.09
Critical Flow Area, Ac (ft2)	22.69
Critical Flow Velocity, Vc (ft/s)	1.19
Critical Wetted Perimeter, Pc (ft)	13.67
Critical Hydraulic Radius, Rhc (ft)	1.66
Critical Bottom Slope, Sc, ft/ft	0.01012

Manning Equation: $Q = VA \qquad V = \frac{k}{n}\left(\frac{A}{P}\right)^{2/3} S^{1/2}$

k is a unit conversion factor: k=1.49 for English units (feet and seconds). k=1.0 for SI units (meters and seconds).

A=Flow area of the channel.

P=Wetted perimeter which is the portion of the circumference that is in contact with water.
Q=Discharge (flow rate).
S=Downward (longitudinal) slope of the culvert.
V=Average velocity in the pipe, culvert, or channel.

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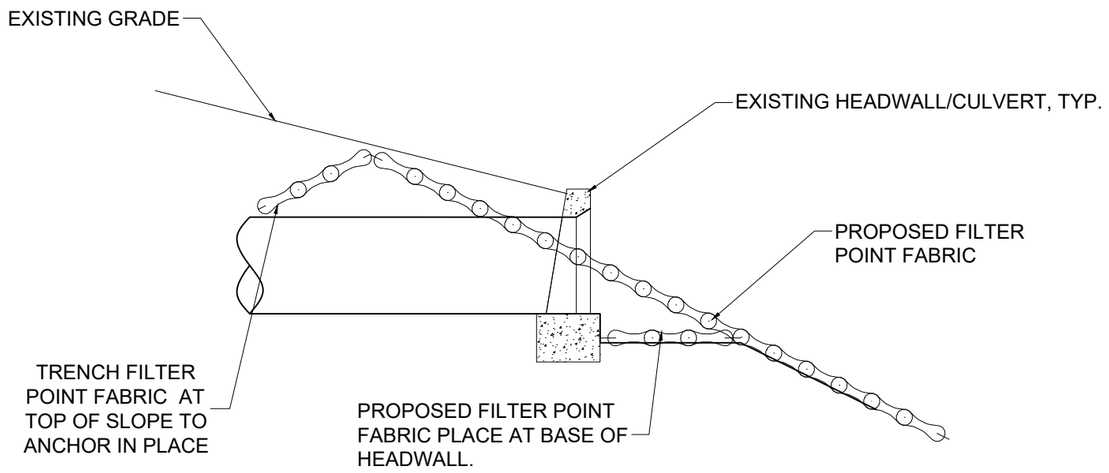
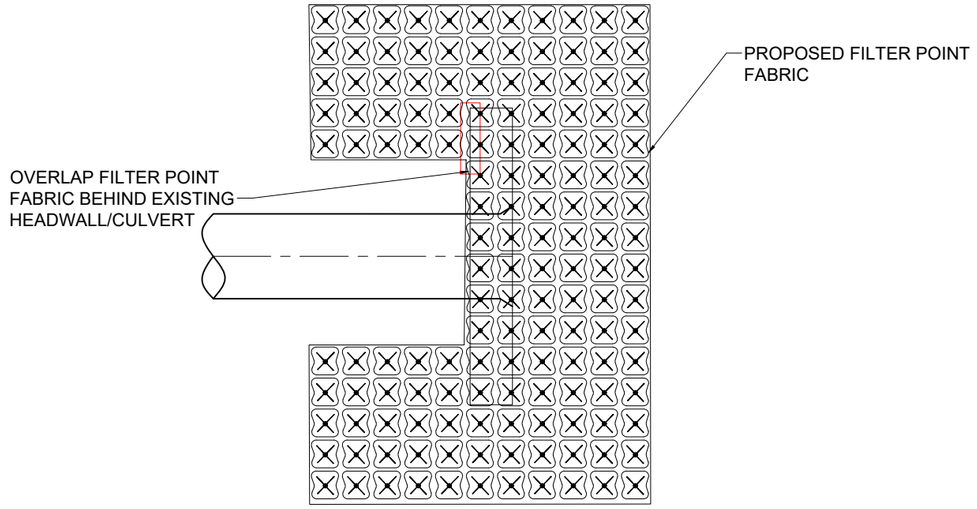
DETAILS

PROJECT NO.	SHEET	OF
2024-064	12	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	N.T.S

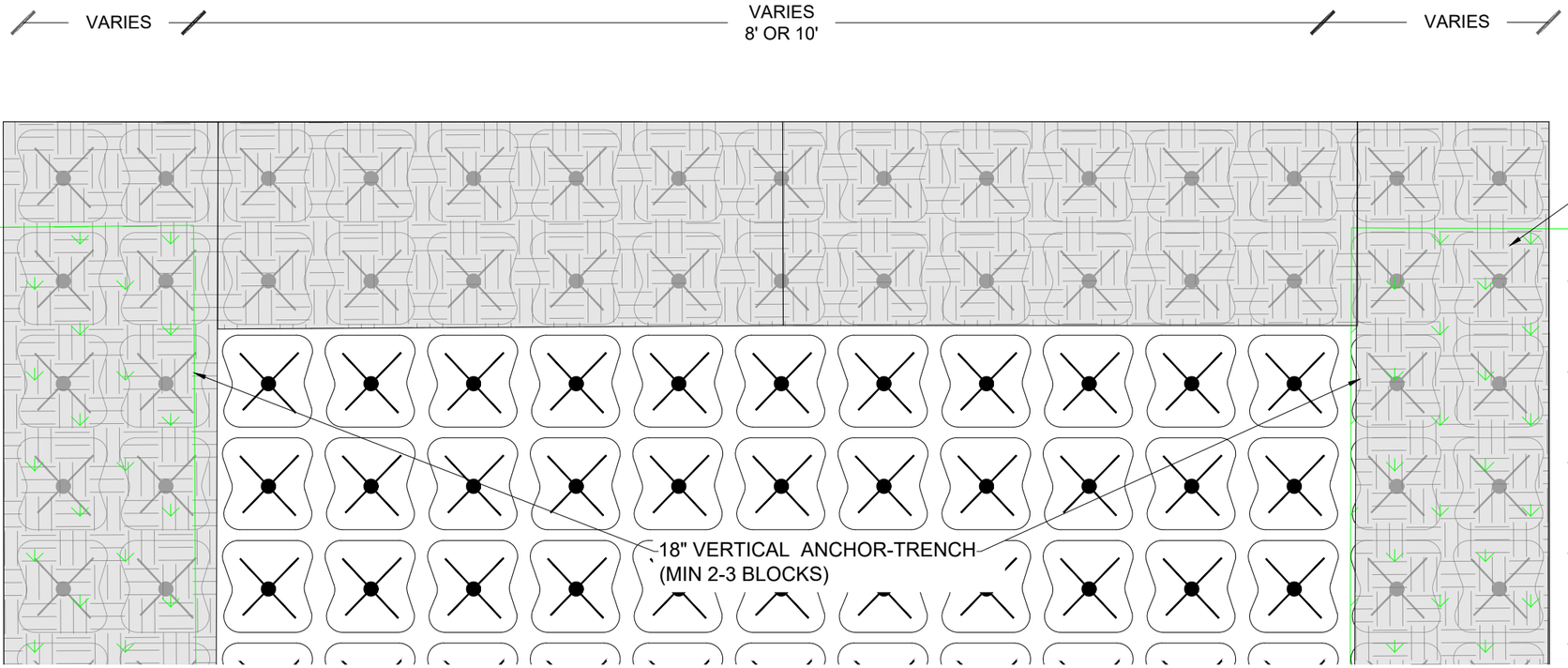
1. SIDE VIEW. HEADWALL/CULVERT AND FILTER POINT FABRIC INTERACTION



2. TOP SHOREFLEX. HEADWALL/CULVERT AND FILTER POINT FABRIC INTERACTION



TOP VIEW. FILTER POINT FABRIC TRENCH DETAIL



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DETAILS

PROJECT NO.	SHEET	OF
2024-064	13	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	N.T.S

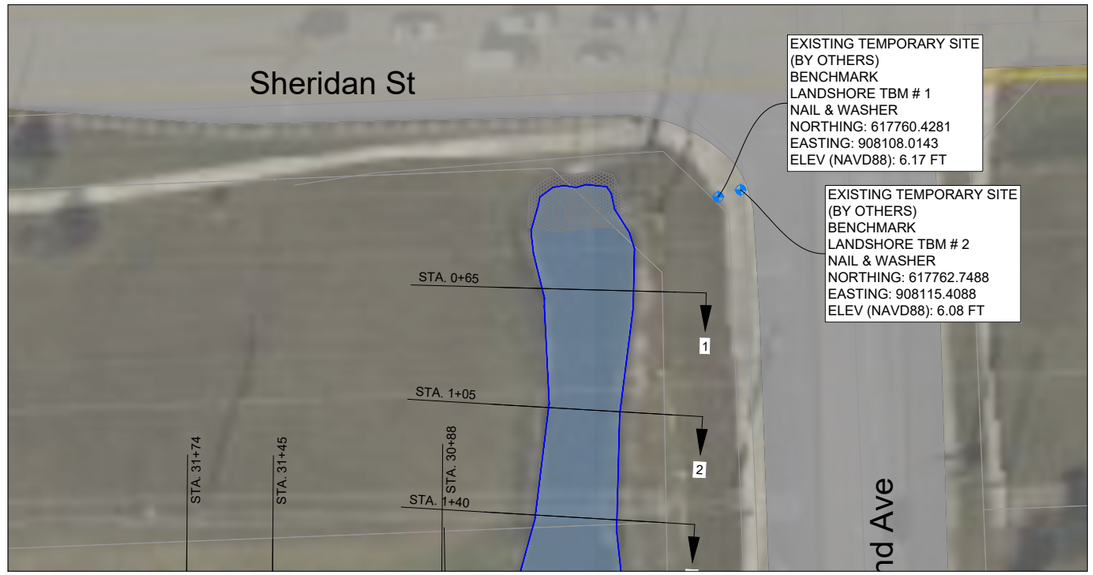
ITEM NUMBER	FDOT OR LSE REFERENCE NUMBER	DESCRIPTION	UNIT	NORTH-SOUTH SIDE	EAST -WEST SIDE	"QUANTITY TOTAL"
1	01026 1	MOBILIZATION AND DEMOBILIZATION	LS	1	1	2
2	104-11-3	SILT FENCE (PER LF)	LF	200	0	200
3	104-11-I	FLOATING TURBIDITY BARRIER. TYPE I	LF	50	50	100
4	110-1-1	CLEARING AND GRUBBING	LS	1	1	2
5	120- 1	REGULAR EXCAVATION/ DREDGING CANAL BOTTOM	CY	291	383	674
6	120-6	EMBANKMENT	CY	503	21	524
7	900-4	NON-WOVEN FILTER	SY	968	840	1808
8	E400-21-4.2	FILTER POINT FABRIC LINING AVERAGE THICKNESS 4 IN	SY	968	840	1808
9	900-2	EROSION CONTROL BLANKET	SY	542	235	777
10	02930-2.1	SODDING	SY	504	202	705
11	E900-100-200	ACCESS AREA REPAIR	SY	480	0	480

QUANTITY INFORMATION FOOTNOTES:

1. PROJECT LENGTH = 325.50 FT
2. 110-1-1 - INCLUDES CLEARING AND GRUBBING OF ALL MATERIAL THAT WILL BE REMOVED FROM THE JOB SITE.
3. 120-1 - INCLUDES ALL EXCAVATING AND EXPORTING EXCESS AND UNSUITABLE MATERIAL OFF-SITE, AND ALSO INCLUDES MATERIAL THAT WILL BE MECHANICALLY DREDGED OR OTHER DREDGING SYSTEM DESIRED BY THE E.O.R. TO COMPLETE THE PLACEMENT OF THE CONCRETE BLOCK EROSION CONTROL MAT.
4. 120-6 - INCLUDES SUITABLE BACKFILL TO COMPLETE THE GRADING AND SHAPING COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE (ACCORDING ASTM D 698).
5. 02930-2.1 - INCLUDES GROUND PREPARATION AND COMPLETE MAINTENANCE OF THE AREA UNTIL FINAL COMPLETION. REFER TO VEGETATION SPECIFICATION 02930 FOR ADDITIONAL PLANTING DETAILS.

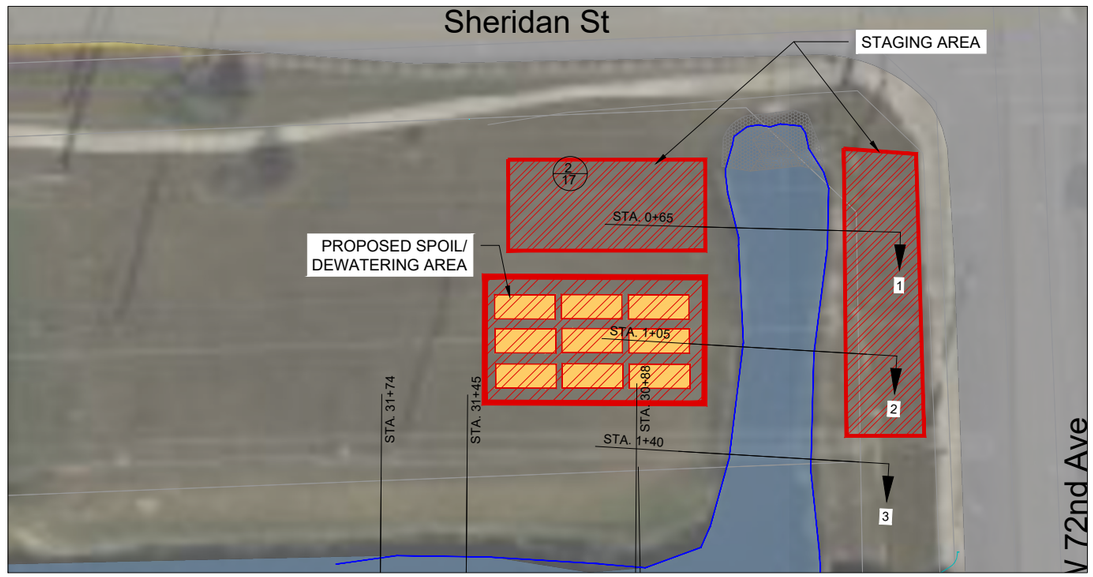
FDOT: FLORIDA DEPARTMENT OF TRANSPORTATION
LSE: LANDSHORE ENTERPRISES, LLC

BENCHMARK LOCATION



SCALE: 1" = 50'

STAGING AREA LOCATION



SCALE: 1" = 50'

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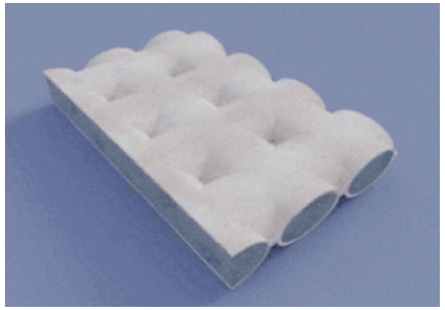
SUMMARY AND QUANTITIES

PROJECT NO.	SHEET	OF
2024-064	14	17
DRAWN BY: NV	DATE: 03/07/2025	SCALE: N.T.S

FILTER POINT FABRIC LINING (ARMORFORM) DATA SHEET AND PERFORMANCE



Filter Point Mat (FPM) is an erosion resistant, permeable concrete lining formed with a double-layer woven fabric, joined together by interwoven, filter points (drains). Once pumped, the cobbled surface and relatively high coefficient of friction act to reduce velocity and wave run-up. The filter points provide for the relief of hydrostatic uplift pressure, increasing the system's stability.

Filter Point Mat (FPM) form a lining of average thickness and specified weight to provide strength and erosion protection to resist the calculated tractive forces. The design criterion for selection of lining thickness is the same as that used to determine the thickness of conventional concrete slope paving. FPM is custom fabricated into multiple mill width panels, designed to fit actual site dimensions and topography.

DESIGN CONSIDERATIONS

1. FPM is used where velocities are low, bedload and ice formations are light and a roughness coefficient of N= 0.025 to 0.030 is acceptable.
2. FPM is used where wave action is light.
3. FPM is ideal for underwater placement.
4. FPM should be installed on engineered slopes.

APPLICATIONS

* Bridge Abutments
* Storm Sewer Outfalls
* Channel Lining
* Pond Lining
* Shoreline Revetments
* Spillway/Weir Structures
* Embankments

FILTER POINT MAT (FPM)				
STYLE	SPACING	AVERAGE THICKNESS	UNIT WEIGHT	CONCRETE COVERAGE
5" FPM	5"	2.2"	26 lbs./ft²	115 sq. ft./cy
8" FPM	8"	4.0"	47 lbs./ft²	73 sq. ft./cy
10" FPM	10"	6.0"	70 lbs./ft²	49 sq. ft./cy

MATERIAL PROPERTY – ARMORFORM FABRICS			
PROPERTY	TEST	UNITS	VALUE
PHYSICAL			
Composition of Yarns	-	-	Polyester
Mass Per Unit Area (Double-Layer)	ASTM D 5261	oz/yd²	14
Thickness (Single-Layer)	ASTM D 5199	mils	27
Mill Width (Woven)		inch	72
MECHANICAL			
Wide-Width Strip Tensile Strength - WARP | FILL	ASTM D 4595	lbs./inch	340/270
Elongation at Break - WARP | FILL - Max.		%	12/12
Trapezoidal Tear Strength - WARP | FILL	ASTM D 4533	lbs.	180/170
Grab Tensile Strength	ASTM D4632	lbf	364/310
Grab Tensile Elongation		%	25/21
CBR Puncture Strength	ASTM D 6241	lbs.	1575
HYDRAULIC			
Apparent Opening Size (AOS)[3]	ASTM D 4751	U.S. Standard (mm)	20
Flow Rate	ASTM D 4491	gal/min/ft²	125

REVISIONS		
DATE	BY	DESCRIPTION

Erosion and Sedimentation Control Plan for Walnut Creek Community Development District Creek

LANDSHORE ENTERPRISES
118 Shamrock Blvd.,
Venice, FL 34293
Office: 941-303-5238
Fax: 941-218-6113
E-mail: info@landshore.com

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PIETER M. LOMBARD ON THE DATE ADJACENT TO THE SEAL.

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MANUFACTURER'S SPECIFICATIONS

PROJECT NO.	SHEET	OF
2024-064	15	17
DRAWN BY: NV	DATE: 03/07/2025	SCALE: NA

ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet
EroNet™ C125® Erosion Control Blanket

DESCRIPTION

The long-term double net erosion control blanket shall be a machine-produced mat of 100% coconut fiber with a functional longevity of up to 36 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a heavyweight photode-gradable polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 in (1.59 x 1.59 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats. The C125 shall meet Type 4 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.22 in. (5.59 mm)
Resiliency	ECTC Guidelines	82%
Water Absorbency	ASTM D1117	167%
Mass/Unit Area	ASTM 6475	7.73 oz/sy (262.8 g/sm)
Swell	ECTC Guidelines	13%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	0.75 oz-in
Light Penetration	ASTM D6567	16.6%
Tensile Strength - MD	ASTM D6818	472.8 lbs/ft (7.01 kN/m)
Elongation - MD	ASTM D6818	25.6%
Tensile Strength - TD	ASTM D6818	225.6 lbs/ft (3.35 kN/m)
Elongation - TD	ASTM D6818	33.9%
Biomass Improvement	ASTM 7322	257%

Design Permissible Shear Stress	
Unvegetated Shear Stress	2.25 psf (108 Pa)
Unvegetated Velocity	10.0 fps (3.05 m/s)

Material Content		
Matrix	100% Coconut Fiber	0.5 lbs/sq yd (0.27 kg/sm)
Netting	Heavyweight photodegradable with UV additives	3 lbs/1000 sq ft (14.6 g/sm)
Thread	Black polypropylene	

Standard Roll Sizes			
Width	6.67 (2.03 m)	8 ft (2.44 m)	16 ft (4.87 m)
Length	108 ft (32.92 m)	112 ft (35.14 m)	112 ft (34.14 m)
Weight ± 10%	44 lbs (19.95 kg)	56.25 lbs (25.5 kg)	112.5 lbs (51 kg)
Area	80 sq yd (66.9 sm)	100 sq yd (83.61 sm)	200 sq yd (167.22 sm)

Slope Design Data: C Factors			
	Slope Gradients (S)		
Slope Length (L)	≤ 3:1	3:1 – 2.1	≥ 2:1
≤ 20 ft (6 m)	0.001	0.029	0.082
20-50 ft	0.036	0.060	0.096
≥ 50 ft (15.2 m)	0.070	0.090	0.110

Roughness Coefficients – Unveg.	
Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.022
0.50 – 2.0 ft	0.022-0.014
≥ 2.0 ft (0.60 m)	0.014

NORTH AMERICAN GREEN

Western Green
4609 E. Boonville-New Harmony Rd.
Evansville, IN 47725

nagreen.com
800-772-2040

EC_RMX_MPDS_C125_3.20

TENCATE GEOSYNTHETICS
Americas

Mirafi® 160 N

Mirafi® 160N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 160N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi® 160N meets AASHTO M288 Class 2 for Elongation > 50%.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). NTPEP Listed

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	160 (712)	160 (712)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	60 (267)	60 (267)
CBR Puncture Strength	ASTM D6241	lbs (N)	410 (1825)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			Minimum Roll Value	
Permittivity	ASTM D4491	sec-1	1.5	
Flow Rate	ASTM D4491	gal/min/ft2 (l/min/m2)	110 (4481)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd2 (m2)	500 (418)

365 South Holland Drive
Pendergrass, GA 30567
Tel 706 693 2226
Tel 888 795 0808
Fax 706 693 4400
www.tencate.com

FGS000361
ETQR89

GAI-LAP-25-97

TENCATE GEOSYNTHETICS
Americas

Mirafi® FW404

Mirafi® FW404 is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FW404 geotextile is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). NTPEP Listed

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	400 (1780)	315 (1402)
Grab Tensile Elongation	ASTM D4632	%	15	15
Trapezoid Tear Strength	ASTM D4533	lbs (N)	150 (668)	165 (734)
CBR Puncture Strength	ASTM D6241	lbs (N)	1150 (5118)	
			Minimum Roll Value	
Percent Open Area	COE-02215	%	1.0	
Permittivity	ASTM D4491	sec-1	0.9	
Flow Rate	ASTM D4491 gal/min/ft2 (l/min/m2)		70 (2852)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355 % strength retained		90	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.57 x 91.4)
Roll Area	yd2 (m2)	500 (418)

365 South Holland Drive
Pendergrass, GA 30567
Tel 706 693 2226
Tel 888 795 0808
Fax 706 693 4400
www.tencate.com

FGS000015
ETQR29

GAI-LAP-25-97

REVISIONS		
DATE	BY	DESCRIPTION

Erosion and Sedimentation Control Plan for Walnut Creek Community Development District Creek

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118 Shamrock Blvd.,
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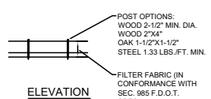
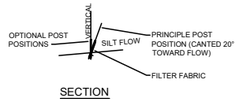
MANUFACTURER'S SPECIFICATIONS

PROJECT NO.	SHEET	OF
2024-064	16	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	NA



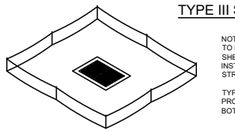
ELEVATION



SECTION

NOTES: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (L.F.)

TYPE III SILT FENCE



NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3

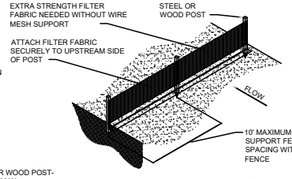
TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

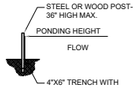
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

1. SILT FENCE APPLICATIONS

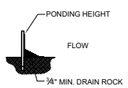
N.T.S.

NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.





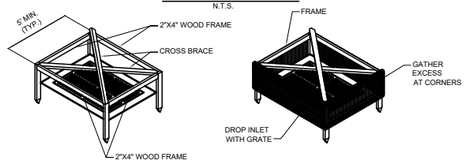
TRENCH DETAIL



INSTALLATION WITHOUT TRENCHING

TYPE IV SILT FENCE

N.T.S.

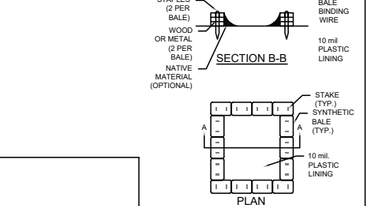


VIEW OF FRAME WITHOUT SILT FENCE

VIEW OF FRAME WITH SILT FENCE

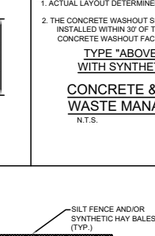
2. SILT FENCE INLET PROTECTION

N.T.S.



3. SILT FENCE/ORANGE FENCE PLACEMENT DETAIL AROUND WETLANDS

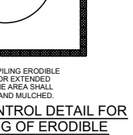
N.T.S.



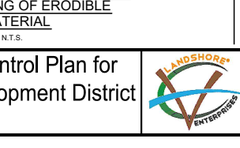
NOTE:
1. SIGN MATERIAL SHALL BE PLASTIC OR METAL, ATTACHED TO 4"x4" TREATED WOOD POST.
2. CONSERVATION EASEMENT SHALL BE 3" HIGH LETTERS.
3. ALL OTHER LINES OF TEXT SHALL BE 1" HIGH WITH 1" SPACING BETWEEN LINES.
4. SIGN SHALL HAVE WHITE BACKGROUND WITH CONTRASTING COLOR FOR THE LETTERING.
5. SIGNS SHALL BE PLACED AS SHOWN ON PLANS, BUT NO LESS THAN EVERY 200 LINEAR FEET AND AT VERTICES NOT CLOSER THAN 25 FEET AND IN NO CASE SHOULD EXCLUDE AREAS INCLUDED IN THE CONSERVATION EASEMENT.

CONSERVATION EASEMENT SIGN

N.T.S.



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



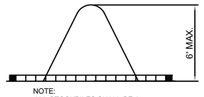
PLAN

NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

TYPE "ABOVE GRADE" WITH SYNTHETIC BALES

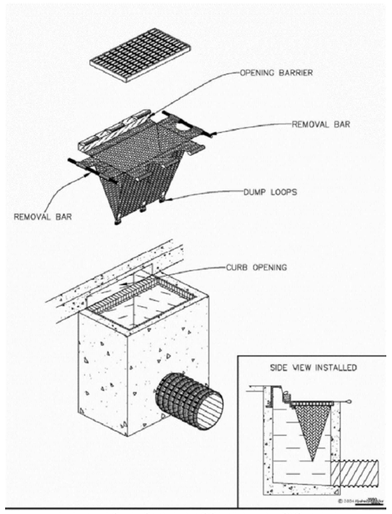
CONCRETE & STUCCO WASTE MANAGEMENT

N.T.S.



NOTE:
ALL STOCKPILES SHALL BE A MAXIMUM OF 6' HIGH.

SECTION A-A



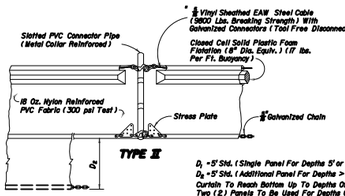
4. INLET INSERT SEDIMENT CONTAINMENT SYSTEM

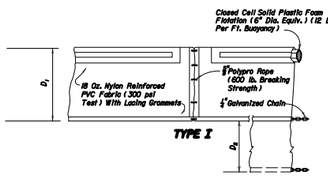
N.T.S.

NOTE:
FOR STOCKPILING ERODIBLE MATERIAL FOR EXTENDED PERIODS, THE AREA SHALL BE SEEDED AND MULCHED.

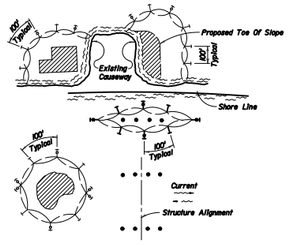
SEDIMENT CONTROL DETAIL FOR STOCKPILING OF ERODIBLE MATERIAL

N.T.S.



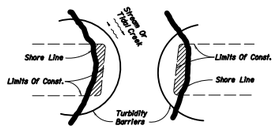


NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
2. Number and spacing of anchors dependent on current velocities.
3. Deployment of barrier around pile locations may vary to accommodate construction operations.
4. Navigation may require segmenting barrier during construction operations.
5. For additional information see Section 104 of the Standard Specifications.

LEGEND
- Pile Locations
- Dredge Or Fill Area
- Mooring Buoy w/Anchor
- Anchor
- Barrier Movement Due To Current Action



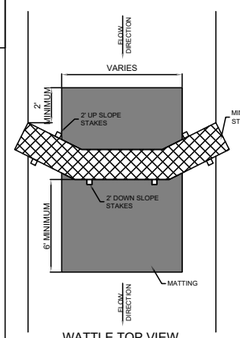
NOTE:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

GENERAL NOTES

1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

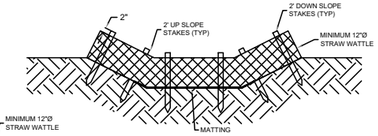
5. TURBIDITY BARRIER APPLICATIONS

N.T.S.



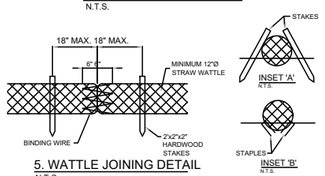
WATTLE TOP VIEW

N.T.S.



WATTLE CROSS SECTION

N.T.S.



5. WATTLE JOINING DETAIL

N.T.S.

NOTES:
1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2"-3" DEEP x 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD OVERLAP 24" - SHINGLE IN DIRECTION OF FLOW.
3. SECURE THE WATTLE WITH 18"-24" STAKES EVERY 3'-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2"-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKE SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
4. USE MINIMUM 12"Ø COIR (COCONUT FIBER)/STRAW WATTLE.
5. USE 2' WOODEN STAKES WITH A 2"x2" NOMINAL CROSS SECTION.
6. ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AS DIRECTED.
7. INSTALL A MINIMUM OF 2 UP SLOPE STAKES AND 4 DOWN SLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
8. PROVIDE STAPLES MADE OF 0.125"Ø STEEL SIRE FORMED INTO A 'U' SHAPE NOT LESS THAN 12" IN LENGTH.
9. INSTALL STAPLES APPROX. EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

6. SYNTHETIC HAY BALE DETAILS

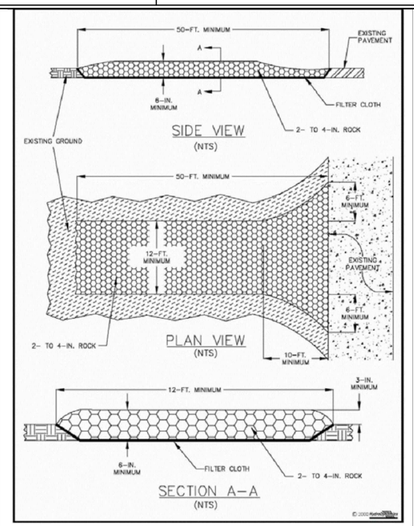
N.T.S.

EROSION AND SEDIMENTATION CONTROL NOTES

CONSTRUCTION ACTIVITIES CAN RESULT IN THE GENERATION OF SIGNIFICANT AMOUNTS OF POLLUTANTS WHICH MAY REACH SURFACE OR GROUND WATERS. ONE OF THE PRIMARY POLLUTANTS OF SURFACE WATERS IS SEDIMENT DUE TO EROSION. EXCESSIVE QUANTITIES OF SEDIMENT WHICH REACH WATER BODIES OF FLOOD PLAINS HAVE BEEN SHOWN TO ADVERSELY AFFECT THEIR PHYSICAL, BIOLOGICAL AND CHEMICAL PROPERTIES. TRANSPORTED SEDIMENT CAN OBSTRUCT STREAM CHANNELS, REDUCE HYDRAULIC CAPACITY OF WATER BODIES OF FLOOD PLAINS, REDUCE THE DESIGN CAPACITY OF CULVERTS AND OTHER WORKS, AND ELIMINATE BENTHIC INVERTEBRATES AND FISH SPAWNING SUBSTRATES BY SILTATION. EXCESSIVE SUSPENDED SEDIMENTS REDUCE LIGHT PENETRATION AND THEREFORE, REDUCE PRIMARY PRODUCTIVITY.

MINIMUM STANDARDS

1. SEDIMENT BASIN AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UNSLOPE LAND DISTURBANCE TAKES PLACE.
2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE REVIEWER, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
6. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
7. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE SEDIMENT BASIN SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE ANTICIPATED SEDIMENT LOADING FROM THE LAND-DISTURBING ACTIVITY. THE OUTFALL DEVICE OR SYSTEM DESIGN SHALL TAKE INTO ACCOUNT THE TOTAL DRAINAGE AREA FLOWING THROUGH THE DISTURBED AREA TO BE SERVED BY THE BASIN.
8. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
9. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
10. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
11. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
12. BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
13. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
14. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES, A TEMPORARY STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
16. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
17. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
    A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
    B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
    C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
    D. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
18. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE, WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
19. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, IN THE OPINION OF THE REVIEWER. DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
20. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DISPOSITION AND EROSION.
21. PHASED PROJECTS SHOULD BE CLEARED IN CONJUNCTION WITH CONSTRUCTION OF EACH PHASE.
22. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS OF THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL MANUAL (JULY 2018).
23. THE REVIEWER MAY APPROVE MODIFICATIONS OR ALTER PLANS TO THESE EROSION CONTROL CRITERIA DUE TO SITE SPECIFIC CONDITIONS.



7. SOIL TRACKING PREVENTION DEVICE DETAIL

N.T.S.

REVISIONS

DATE	BY	DESCRIPTION

Erosion and Sedimentation Control Plan for Walnut Creek Community Development District Creek

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MANUFACTURER'S SPECIFICATIONS

PROJECT NO.	SHEET	OF
2024-064	17	17
DRAWN BY:	DATE:	SCALE:
NV	03/07/2025	AS SHOWN