

GENERAL SCOPE OF DESIGN PERMITTING AND CONSTRUCTION WORK FOR LAKES RESTORATION LAKE 8 & 9 RESTORATION PROJECTS COLLIER COUNTY, NAPLES, FLORIDA



GREGORY W. CORNING, P.E.
FLORIDA PE LICENSE NO. 79293

PROJECT:
CITY OF NAPLES LAKES RESTORATION

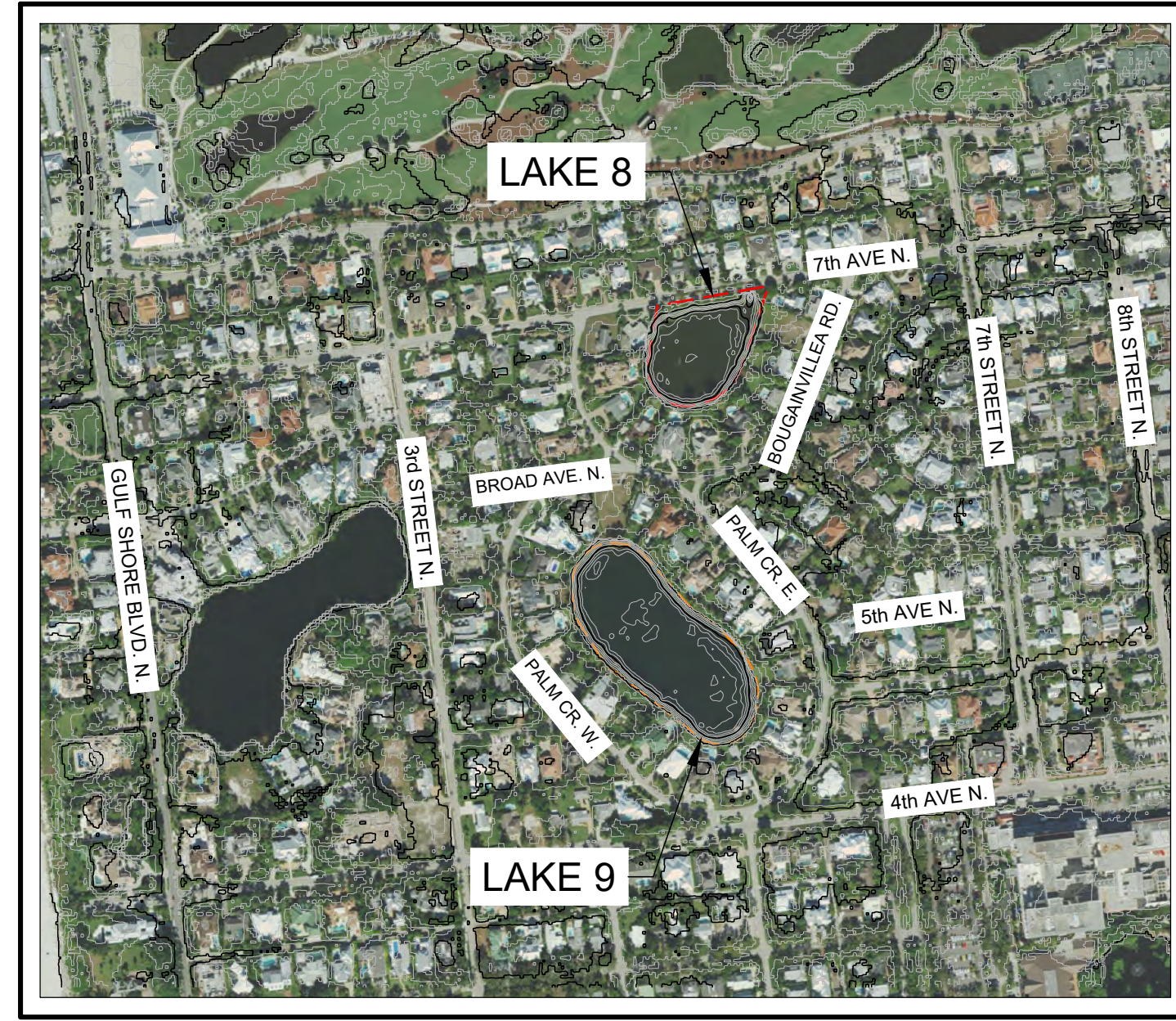
City of Naples Florida

CLIENT:
CITY OF NAPLES PUBLIC WORKS DEPARTMENT
295 RIVERSIDE DRIVE
NAPLES, FL 34102

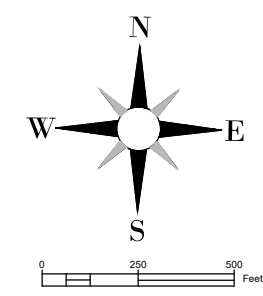
WSP PROJECT NO:
600843.03

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

LOCATED IN
SECTION 4 TOWNSHIP 50 SOUTH, RANGE 25 EAST
COLLIER COUNTY, NAPLES, FLORIDA



VICINITY MAP



LEGEND

- APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.36 ACRES)
- APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.84 ACRES)

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THE PLANS SHOULD BE PLOTTED AT 22" X 34" TO OBTAIN SCALED DATA.

GOVERNING SPECIFICATIONS:
THE PROJECT DEVELOPMENT CODE;
CITY OF NAPLES;
COLLIER COUNTY;
FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT);
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP);
SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD);
UNITED STATES ARMY CORPS OF ENGINEERS (USACE);
IN THE EVENT OF A CONFLICT, THE MOST RESTRICTIVE APPLIES.

MAYOR

TERESA HEITMANN

VICE MAYOR

MICHAEL McCABE

CITY COUNCIL

TERRY HUTCHISON
BETH PETRUNOFF
TED BLANKENSHIP
PAUL PERRY
RAYMOND CHRISTMAN

CITY MANAGER

JAY BOODHESHWAR

PUBLIC WORKS DIRECTOR

BOB MIDDLETON

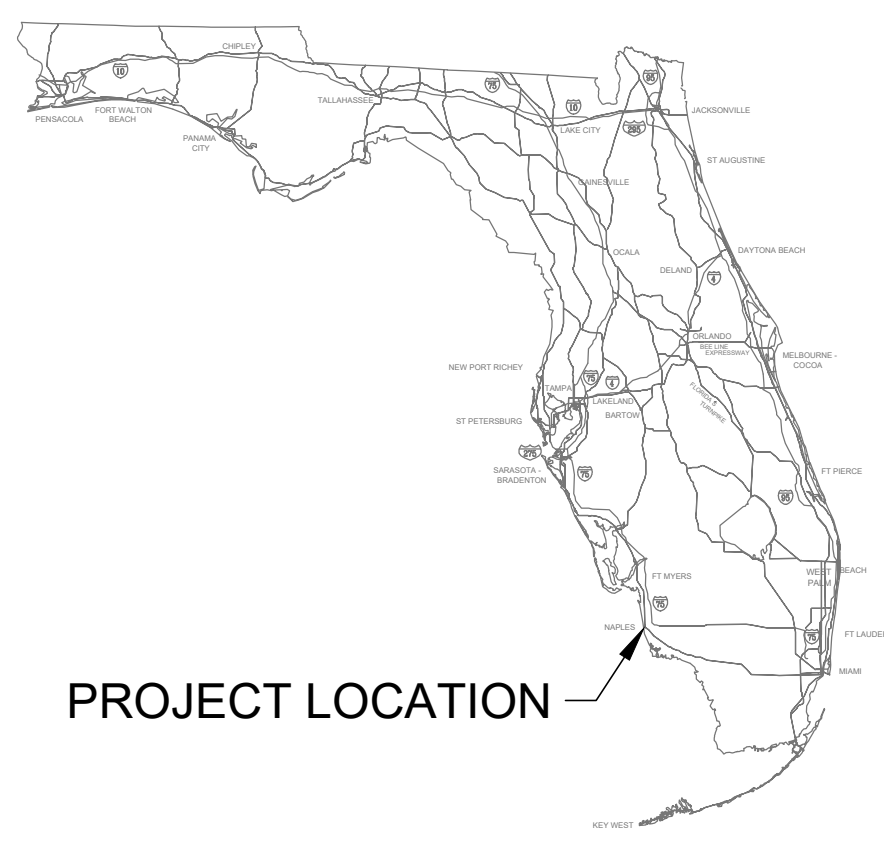
PLANS PREPARED FOR:

CITY OF NAPLES
PUBLIC WORKS DEPARTMENT
295 RIVERSIDE DRIVE NAPLES, FLORIDA 34102
PHONE: 239-213-5016 FAX: 239-213-5010

PLANS PREPARED BY:

WSP ENVIRONMENT AND INFRASTRUCTURE, INC.
5845 NW 158TH ST
MIAMI LAKES, FLORIDA 33014
TEL: (305) 826-5588
E-MAIL: greg.corning@wsp.com
ENGINEER OF RECORD: GREGORY CORNING, P.E (FL 79293)

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
G-001	COVER
G-002	GENERAL NOTES
C-101_8	EXISTING SITE PLAN LAKE 8
C-102_8	PROPOSED SITE PLAN LAKE 8
C-103_8	EROSION & SEDIMENT CONTROL PLAN LAKE 8
C-104_8	MAINTENANCE OF TRAFFIC CONTROL PLAN
C-201_8	LITTORAL PLANTING AND GRADING PLAN AND PROFILE
C-301_8	CROSS SECTION LOCATION PLAN LAKE 8
C-101_9	EXISTING SITE PLAN LAKE 9
C-102_9	PROPOSED SITE PLAN LAKE 9
C-103_9	EROSION & SEDIMENT CONTROL PLAN LAKE 9
C-104_9	PROPOSED MAINTENANCE OF TRAFFIC CONTROL PLAN
C-201_9	PROFILE VIEW & LOCATION LAKE 9
C-301_9	CROSS SECTION LOCATION PLAN AND SECTIONS LAKE 9
C-501	DESIGN DETAILS (1 OF 2)
C-502	DESIGN DETAILS (2 OF 2)



**SUNSHINE STATE ONE CALL OF FLORIDA
CALL BEFORE YOU DIG
1-800-432-4770**

- CALL 1-800-432-4770 TWO FULL BUSINESS DAYS (BUT NOT MORE THAN FIVE) BEFORE DIGGING TO FIND OUT WHERE BURIED FACILITIES (ELECTRIC, GAS, TELECOMMUNICATIONS, CABLE WATER, SEWER) ARE LOCATED.
- WAIT THE REQUIRED TIME FOR THE UTILITIES ON SITE TO BE LOCATED AND MARKED WITH COLOR-CODED PAINT, FLAGS OR STAKES AND CONFIRM THAT THE SITE HAS BEEN LOCATED.
- RESPECT AND PROTECT THE MARKS DURING THE PROJECT, IF MARKS ARE DESTROYED, REQUEST A NEW LOCATE TICKET.
- DIG SAFELY, USING EXTREME CAUTION WHEN DIGGING WITHIN 24 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.

PROJECT NUMBER: 600843.03 CITY: TAMPA
C:\GARY\WORK MAPS-NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWGS\G-001.dwg LAYOUT: COVER SAVED: 6/27/2023 12:17 PM PLOTSTYLETABLE: ---- PLOTTED: 6/28/2023 12:09 PM DRAWN BY: BOLTON, GARY P.

REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
COVER

SHEET NUMBER: G-001	REV. #
SHEET 01 OF 16 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
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 DRAWN BY: BOLTON, GARY P. PLOTTED: 6/28/2023 12:11 PM

NOTES:

A. GENERAL

1. PROJECT LOCATIONS:
 - 1.1. LAKE 8 - LAT: 26° 9'55.83"N LONG: 81°47'45.30"W
 - 1.2. LAKE 9 - LAT: 26° 8'22.48"N LONG: 81°48'0.50"W
2. DESCRIPTION: THIS PROJECT CONSISTS OF SITE IMPROVEMENTS, INCLUDING REMOVAL OF INVASIVE EXOTIC VEGETATION, HYDRAULIC AND MECHANICAL DREDGING OF ORGANIC MATERIAL AND SAND FROM THE BOTTOM OF THE LAKES, CONTOURING LAKE BOTTOM AND CONSTRUCTING LITTORAL SHELVES, AND PUBLIC OUTREACH AMENITIES.
3. THE TYPES OF SOIL DISTURBANCE ACTIVITIES INCLUDE: HYDRAULIC DREDGING, GRADING, EXCAVATING AND COMPACTING.
4. THE CONTRACTOR SHALL COMPLETE THE LAKES IN THE FOLLOWING ORDER:
 - 4.1. LAKE 8
 - 4.2. LAKE 9
5. SEQUENCE OF MAJOR ACTIVITIES:
 - (1) INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND MAINTAIN THROUGHOUT PROJECT.
 - (2) CONSTRUCT HYDRAULIC DREDGING AND DEWATERING STAGING AREAS
 - (3) DREDGE ORGANIC MATERIAL, DEWATER, AND HAUL OFFSITE.
 - (4) CONSTRUCT FEATURES ACCORDING TO ENGINEERING DESIGN PLANS AND TECHNICAL SPECIFICATIONS.
 - (5) STABILIZE AREAS AS NEEDED.
 - (6) OBTAIN FINAL APPROVAL, REMOVE EROSION AND SEDIMENTATION CONTROLS AND STABILIZE ANY AREA DISTURBED BY THEIR REMOVAL.
6. AREA ESTIMATES:
 - 6.1. LAKE 8 AND CITY ROADS PLATTED BOUNDARY = 2.36 ACRES
 - 6.2. LAKE 9 AND CITY ROADS PLATTED BOUNDARY = 4.84 ACRES
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP, OBTAIN, AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE EPA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND ALL OTHER FEDERAL, STATE AND LOCAL REQUIREMENTS.
8. THE CONTRACTOR SHALL SUBMIT A ROW PERMIT APPLICATION THROUGH THE CITY OF NAPLES STREETS AND TRAFFIC DIVISION SHOWING MAINTENANCE OF TRAFFIC AND ANY ROAD OR LANE CLOSURES.
9. THE CONTRACTOR SHALL USE CAUTION TO PROTECT WILDLIFE AND ECOSYSTEM THROUGH THE PROJECT DURATION.
10. THE CITY OF NAPLES, THE ENGINEER OF RECORD, THE CONTRACTOR, AND SFWMD SHALL HAVE A PRE-CONSTRUCTION MEETING TO DISCUSS THE COMPLEXITY AND POTENTIAL PUBLIC CONCERNS WITH THE PROJECT.
11. COORDINATES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT, PROJECTED IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE 901, US SURVEY FEET, AND ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED ON GLOBAL POSITIONING SYSTEM (GPS) MEASUREMENTS TO THE NATIONAL GEODETIC SURVEY (NGS) CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) NETWORK. THE POSITIONS OF THE PROJECT CONTROL STATIONS SHOWN HEREON HAVE A CALCULATED POSITIONAL ACCURACY OF 2 CM OR BETTER BASED UPON THE NGS OPUS ADJUSTMENT REPORT.

B. TEMPORARY EROSION AND SEDIMENT CONTROL

1. CONTRACTOR SHALL INSTALL PRIOR TO AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS.
2. EROSION CONTROL MEASURES AND THE OUTFALLS WILL BE INSPECTED AT LEAST DAILY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR IF DAMAGED. CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE PERFORMED BY THE CONTRACTOR WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF (1/2) FULL FOR SILT FENCE, TURBIDITY BARRIERS, AND INLET SEDIMENT TRAPS.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING SEDIMENT AND EROSION CONTROL MEASURES TO PROVIDE OPTIMUM SEDIMENT AND EROSION CONTROL. SEDIMENT AND EROSION CONTROL MEASURES SHALL COMPLY WITH CHAPTER 6 OF THE FLORIDA DEVELOPMENT MANUAL.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OF CITY OF NAPLES DESIGNATED REPRESENTATIVE.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING DITCHES, WETLAND VEGETATION, STORM DRAIN PIPES, AND INLETS, IN THE VICINITY OF WORK TO BE PERFORMED, FROM DAMAGE OR SILTATION, WHETHER OR NOT SPECIFICALLY IDENTIFIED IN THE PLANS.
6. EROSION CONTROL MEASURES DESCRIBED SHALL BE MAINTAINED UNTIL PERMANENT DRAINAGE FACILITIES HAVE BEEN RECONSTRUCTED AND VEGETATION ON PLANTED SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT.
7. CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD INTO PUBLIC STREETS. IF TRACKING OR FLOW OF MUD OCCURS, CONTRACTOR SHALL CONSTRUCT A SOIL TRACKING PREVENTION DEVICE IN ACCORDANCE WITH FDOT DESIGN STANDARD 2010, INDEX NO. 106.
8. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON ESTABLISHMENT OF PERMANENT VEGETATION OR PROJECT COMPLETION, AS DIRECTED BY THE CITY'S REPRESENTATIVE.
9. SILT FENCE AND TURBIDITY BARRIERS SHALL MEET THE REQUIREMENTS OF FDOT DESIGN STANDARDS 2017-18, INDEX NO. 104.
10. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTROL OF EROSION WITHIN THE WORK SITE AND PREVENTION OF SEDIMENTATION OF ANY ADJACENT OR DOWNSTREAM WATERWAYS. THE EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR'S METHODS OF OPERATION MAY DICTATE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND INSTALLING ADDITIONAL MEASURES.
11. ANY UNCOVERED DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 20 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

C. DEWATERING

1. DEWATERING ACTIVITIES SHALL ADHERE TO THE SFWMD PERMIT.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

D. EXISTING INFRASTRUCTURE

1. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING INFRASTRUCTURE THAT IS IMPACTED DURING CONSTRUCTION TO MATCH EXISTING CONDITIONS.

E. EXISTING UTILITIES

1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL PERTINENT UTILITIES COMPANIES 48 HOURS PRIOR TO DIGGING FOR LOCATION OF UNDERGROUND UTILITY LINES.
2. IN THE EVENT THE UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL RESTORE TO MATCH EXISTING CONDITIONS AND NOTIFY THE PERTINENT UTILITY COMPANY IMMEDIATELY.



USA ENVIRONMENT & INFRASTRUCTURE, INC.
 1101 Channelside Drive
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 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

PROJECT:
CITY OF NAPLES
LAKES RESTORATION



CLIENT:
CITY OF NAPLES
PUBLIC WORKS
DEPARTMENT
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
600843.03

REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

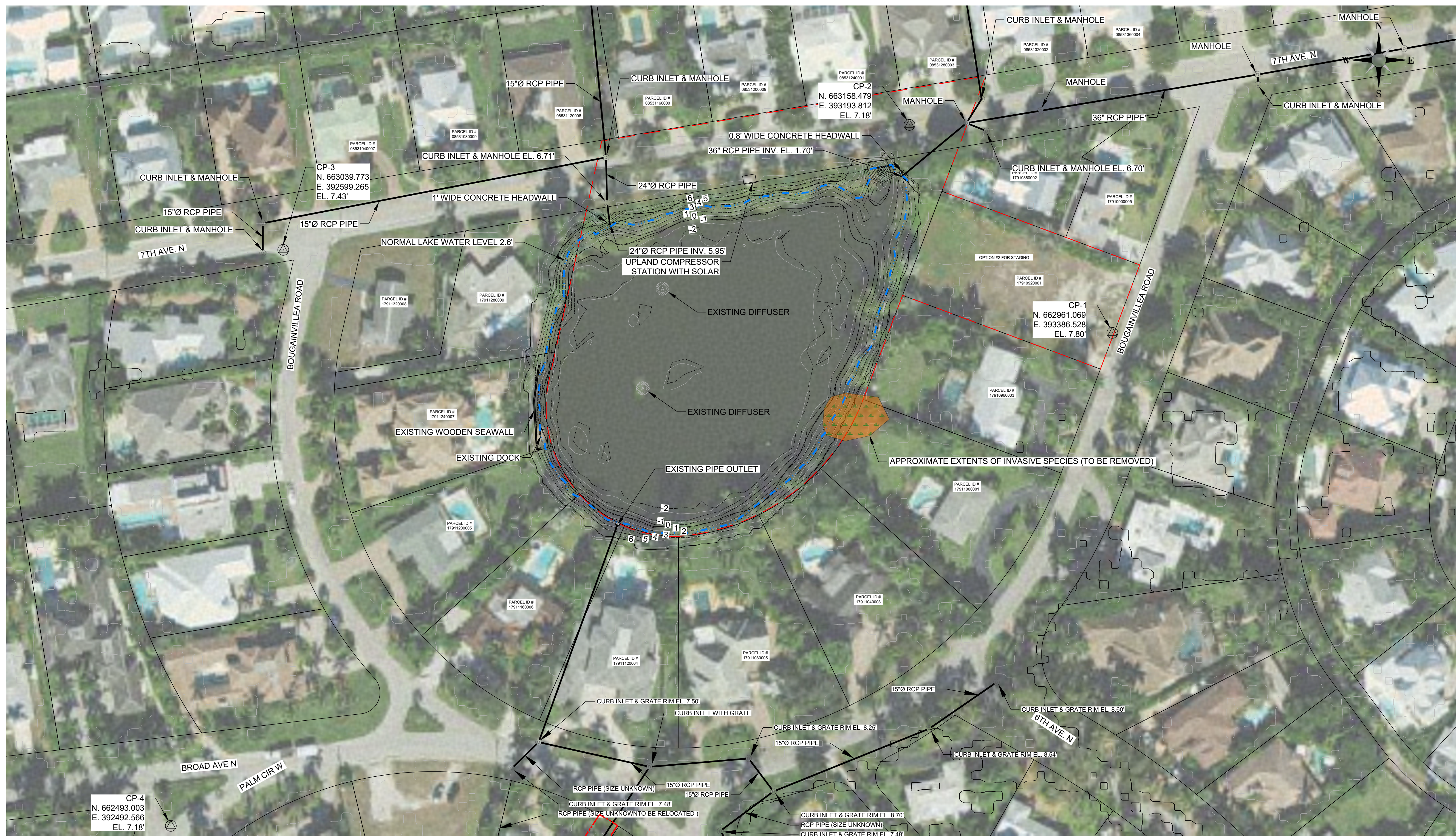
DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 22, 2023

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:	REV. #
G-002	
SHEET 02 OF 16 SHEETS	

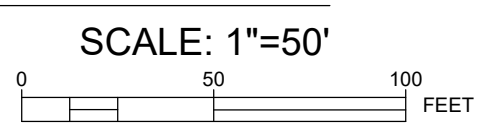
PROJECT NUMBER: 600843.03 CITY: TAMPA
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SOURCE: FLORIDA LABINS (OP2019_NC_310245)

- LEGEND**
- 5 --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - NORMAL LAKE WATER LEVEL EL. 2.6'
 - ⊙ CONTROL POINT / BENCHMARK
 - ⊙ CURB INLET / MANHOLE
 - ⬡ APPROXIMATE LAKE 8 PROJECT BOUNDARY (3.21 ACRES)
 - ▭ COLLIER COUNTY PARCEL BOUNDARY
 - ⊙ EXISTING AERATOR / DIFFUSER
 - ⬢ INVASIVE SPECIES (TO BE REMOVED)

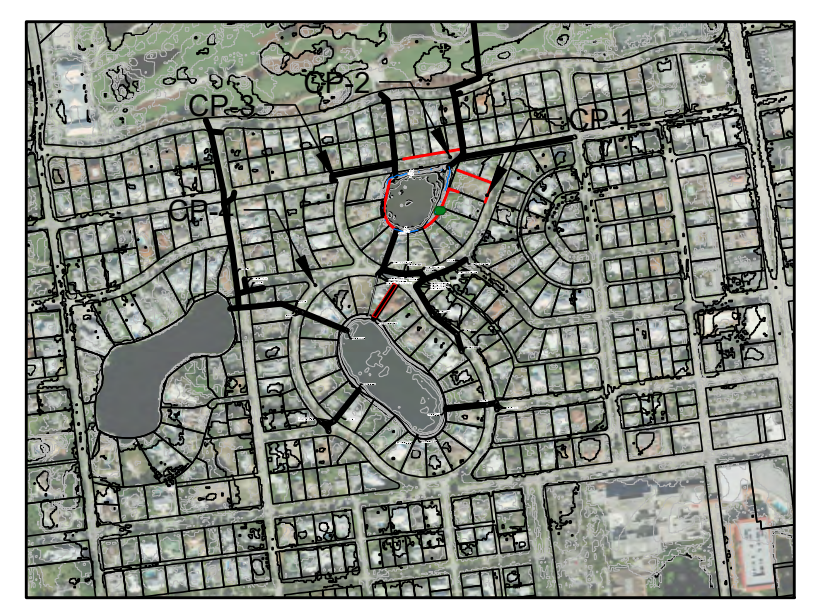
1 EXISTING SITE PLAN - LAKE 8



- NOTES:**
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 - THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKE 8 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED 2022
 - THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 - THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.

CONTROL POINTS & BENCHMARK DATA TABLE				
I.D.	NORTHING	EASTING	ELEV.	DESCRIPTION
CP-1	662961.069	393386.528	7.80'	IRON ROD & CAP STAMPED "TRAVERSE"
CP-2	663158.479	393193.812	7.18'	MAG NAIL E.F. GAINES LS 4576
CP-3	663039.773	392599.265	7.43'	DSK NAIL E.F. GAINES LS 4576 NLD
CP-4	662493.003	392492.566	7.18'	DSK NAIL
BM-191	662624.93	396219.28	6.00'	5/8" IRON ROD & CAP
BM-192	662592.66	395943.02	6.20'	5/8" IRON ROD & CAP
BM-204	657635.89	393659.64	3.30'	5/8" IRON ROD & CAP
CP-5	658801.610	395120.238	6.37'	*SSR W/CAP 3" IN BRASS USGS V241 1965 (PID:AD1256)

NOTE: ALL ELEVATIONS (ELEV.) ARE IN FEET, DATUM IS NAVD 88 UNLESS OTHERWISE STATED.
 * = DATUM UNKNOWN



SITE MAP LOCATION

USA ENVIRONMENT & INFRASTRUCTURE, INC.
 1101 Channelside Drive
 Suite 200
 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**

City of *Naples* Florida

CLIENT:
**CITY OF NAPLES
 PUBLIC WORKS
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
600843.03

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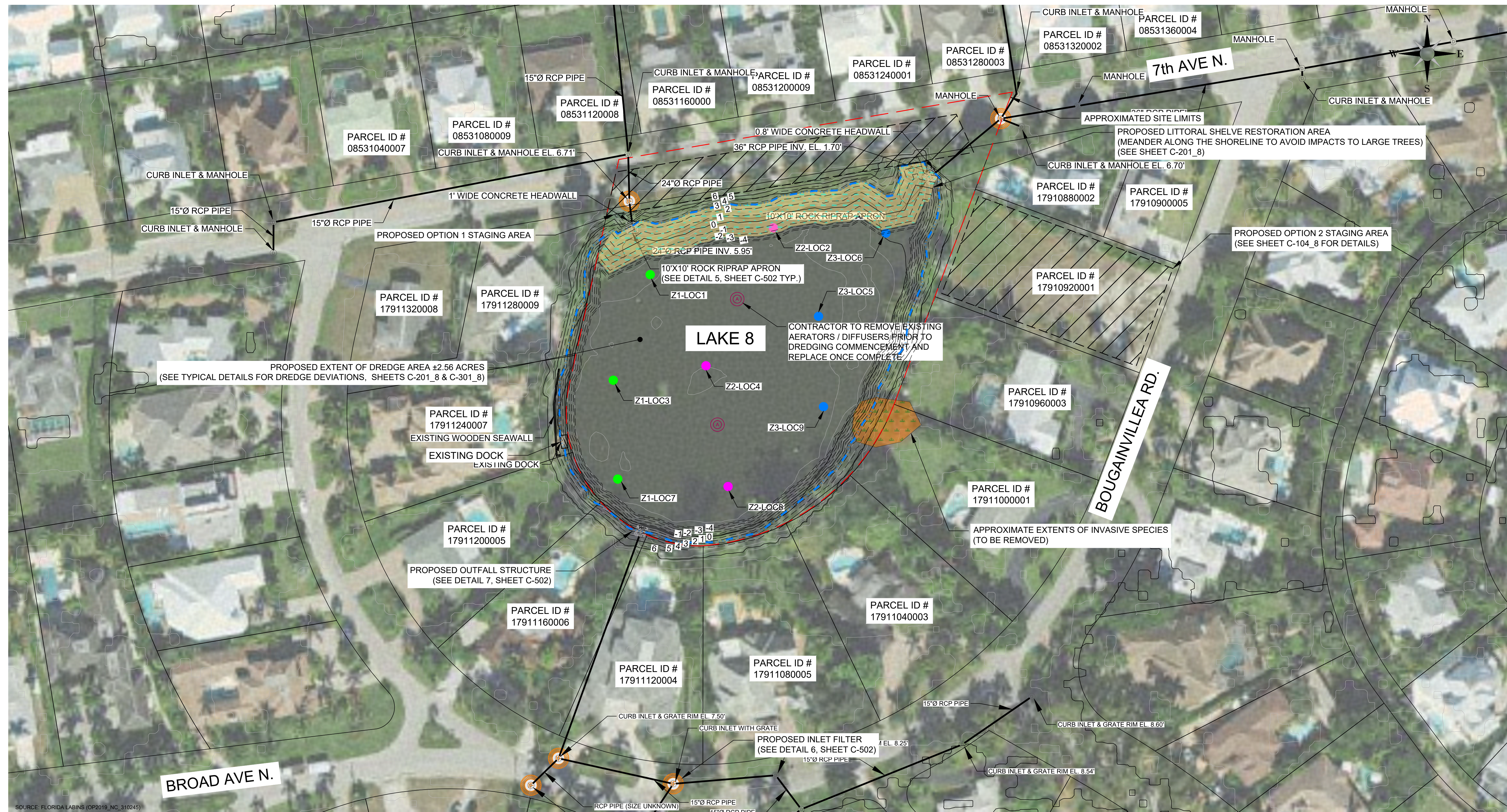
REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
**EXISTING SITE PLAN
 LAKE 8**

SHEET NUMBER:	REV. #
C-101_8	
SHEET 03 OF 16 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
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1 PROPOSED SITE PLAN - LAKE 8

Scale: 1"=50'
 0 50 100 Feet

- LEGEND**
- 5 — EXISTING CONTOURS
 - — EXISTING STORMWATER PIPES
 - - - - APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.56 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - ⊙ PROPOSED AERATOR

- INVASIVE SPECIES (TO BE REMOVED)
- LITTORAL SHELF GRADING & PLANTING
- PROPOSED STAGING AREA
- ZONE-1 LOCATIONS 1, 3 & 7 (Z1-LOC7)
- ZONE-2 LOCATIONS 2, 4 & 8 (Z2-LOC8)
- ZONE-3 LOCATIONS 6, 5, & 9 (Z3-LOC9)

- NOTES:**
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 - THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKES 8 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ??? YEAR,
 - THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
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City of *Naples* Florida

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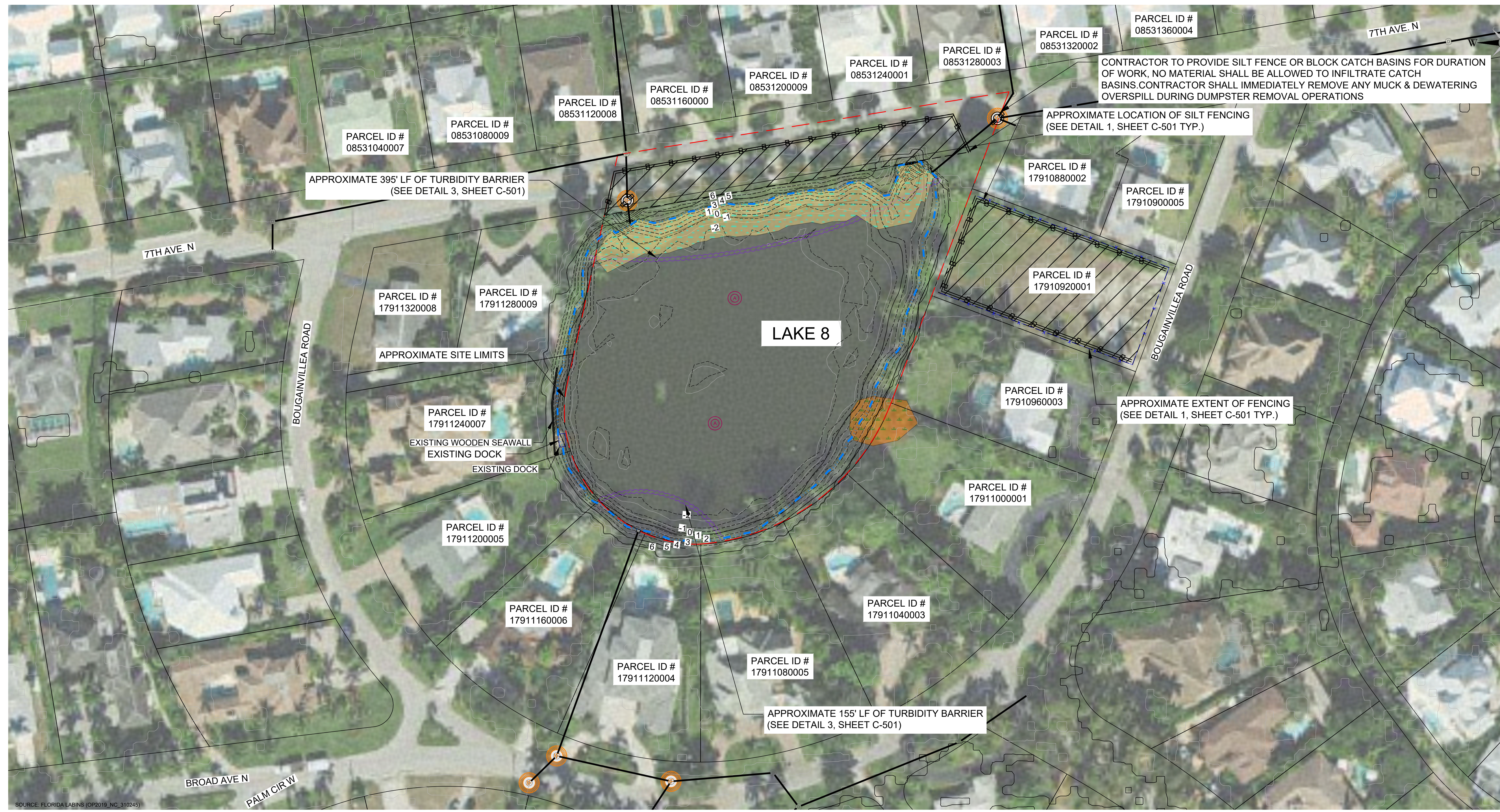
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DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
PROPOSED SITE PLAN LAKE 8

SHEET NUMBER:	REV. #
C-102_8	
SHEET 04 OF 16 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 C:\GARY\WORK\MAPS-NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWGS\C-103_8.dwg LAYOUT: EROSION & SEDIMENT CONTROL PLAN LAKE 8 SAVED: 6/27/2023 12:59 PM PLOTTED: 6/28/2023 12:20 PM DRAWN BY: BOLTON, GARY P.



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APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
**EROSION &
 SEDIMENT
 CONTROL PLAN
 LAKE 8**

SHEET NUMBER:	REV. #
C-103_8	
SHEET 05 OF 16 SHEETS	

1 PROPOSED EROSION AND SEDIMENT CONTROL PLAN - LAKE 8

Scale: 1"=50'
 0 50 100 Feet

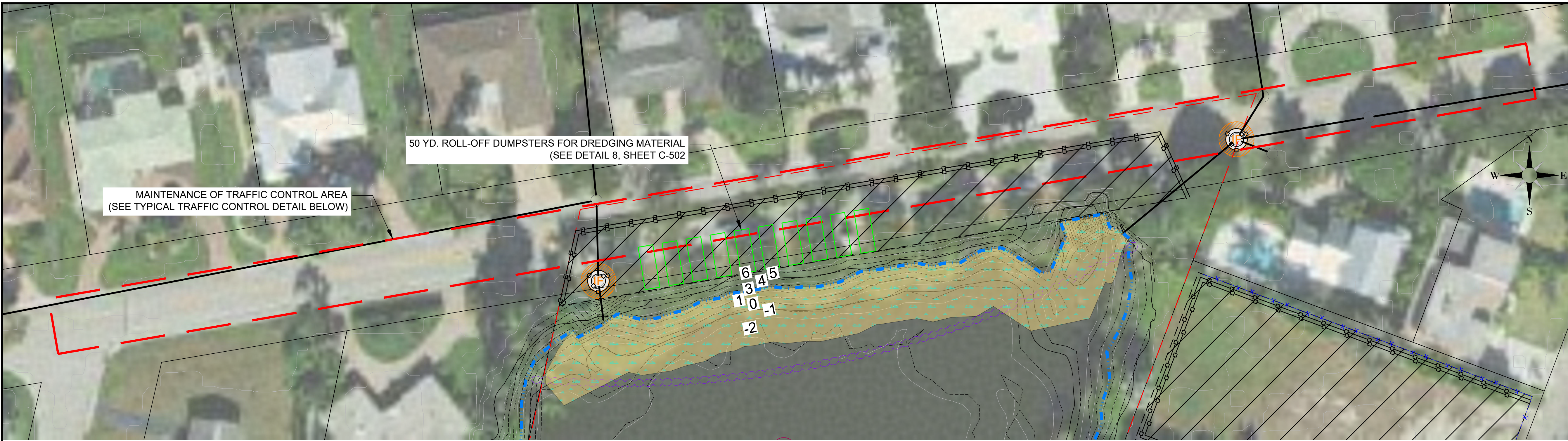
- LEGEND**
- 5 --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
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 - ⊙ PROPOSED WATER CONTROL STRUCTURE
 - ⊙ PROPOSED INLET FILTER
 - ⊙ PROPOSED AERATOR
 - ⊙ INVASIVE SPECIES (TO BE REMOVED)
 - ⊙ LITTORAL SHELF GRADING & PLANTING
 - ⊙ FLOATING TURBIDITY BARRIER
 - ⊙ TEMPORARY FENCING
 - ⊙ TEMPORARY SILT FENCING

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADDITIONAL EROSION SEDIMENT CONTROL MEASURES AS NEEDED TO PREVENT AND MINIMIZE SEDIMENT TRANSFER FROM THE PROJECT SITE. THESE MEASURES INCLUDE BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY CURTAIN AND TRUCK CLEANING STATIONS.
 - CONTRACTOR SHALL ENSURE THE SITE IS KEPT IN GOOD CLEAN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT INCLUDING PICKING UP/ DISPOSING OF TRASH, SWEEPING ROADWAYS AND CLEANING STORMWATER INLETS, AS NEEDED.
 - CONTRACTOR TO DEPLOY / RELOCATE FLOATING TURBIDITY CURTAINS AROUND PROJECT IMPROVEMENTS AS CONSTRUCTION PROGRESSES



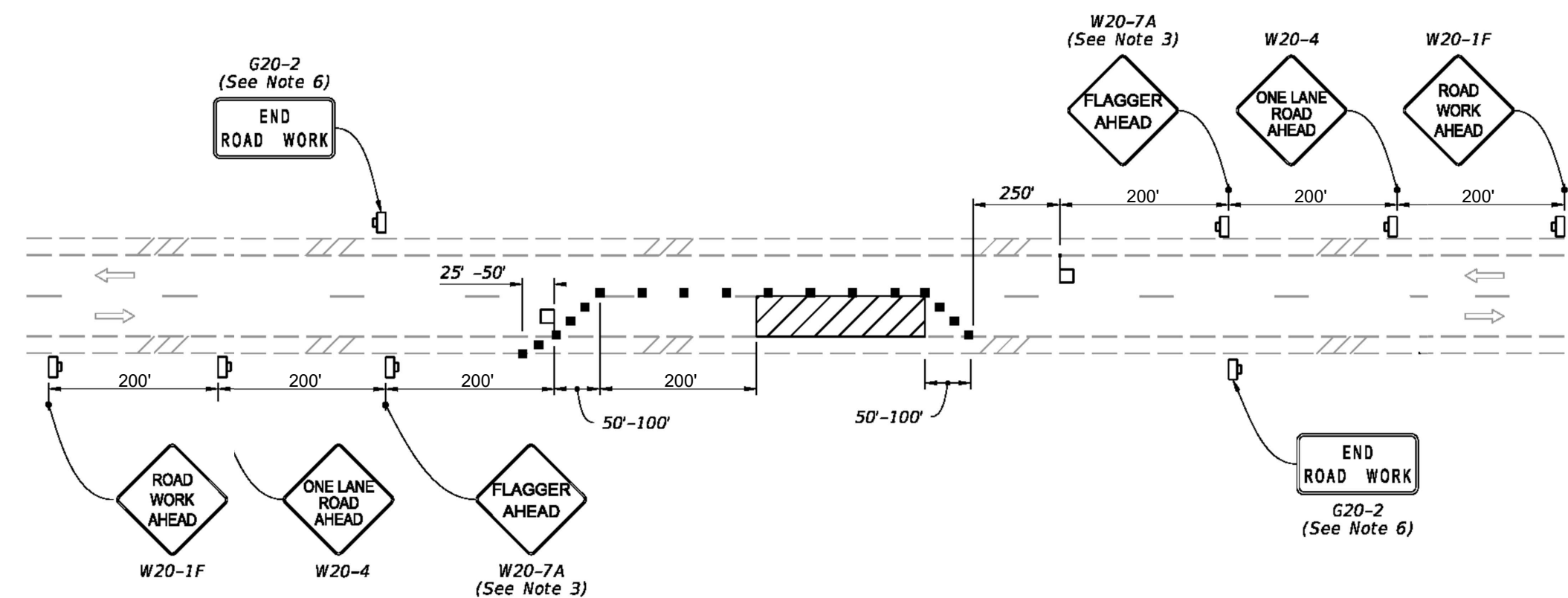
SITE MAP LOCATION

PROJECT NUMBER: 600843.03 CITY: TAMPA
 C:\GARY\WORK MAPS\NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWGS\C-104_8.dwg LAYOUT: MAINTENANCE OF TRAFFIC CONTROL PLAN SAVED: 6/28/2023 11:53 AM PLOTSTYLETABLE: ... PLOTTED: 6/28/2023 12:21 PM DRAWN BY: BOLTON, GARY P.

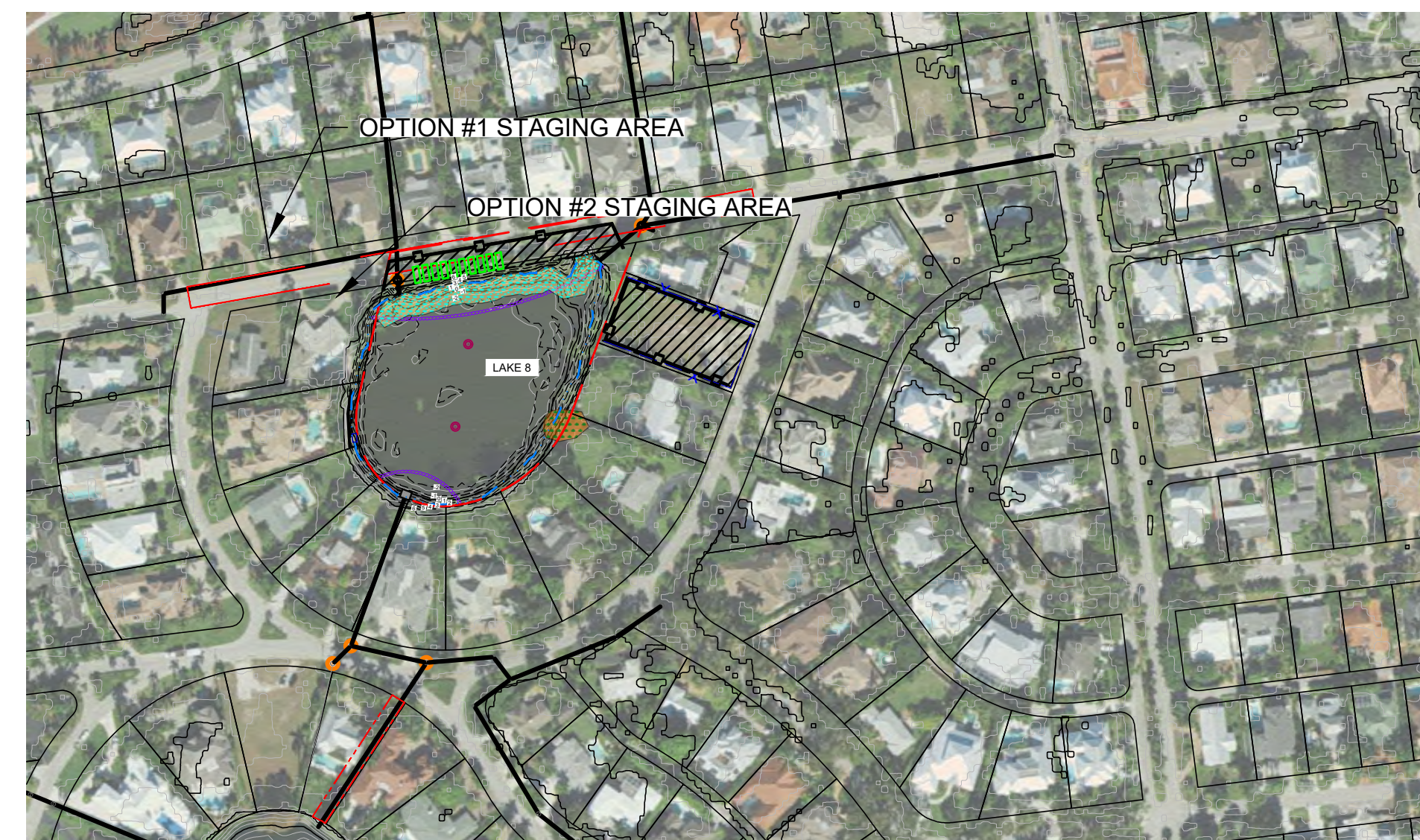


SOURCE: FLORIDA LABINS (OP2019_NC_310245)

1 PROPOSED MAINTENANCE OF TRAFFIC CONTROL PLAN - LAKE 8
 NOT TO SCALE



TYPICAL TWO LANE ROAD TRAFFIC CONTROL DETAIL



- LEGEND**
- 5 --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - - - - - APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.36 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - WC PROPOSED WATER CONTROL STRUCTURE
 - IF PROPOSED INLET FILTER
 - ⊙ PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - LITTORAL SHELF GRADING & PLANTING
 - FLOATING TURBIDITY BARRIER
 - x — x — TEMPORARY FENCING
 - o — o — TEMPORARY SILT FENCING
 - 50 YD DUMPSTER

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADDITIONAL EROSION SEDIMENT CONTROL MEASURES AS NEEDED TO PREVENT AND MINIMIZE SEDIMENT TRANSFER FROM THE PROJECT SITE. THESE MEASURES INCLUDE BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY CURTAIN AND TRUCK CLEANING STATIONS.
 - CONTRACTOR SHALL ENSURE THE SITE IS KEPT IN GOOD CLEAN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT INCLUDING PICKING UP/ DISPOSING OF TRASH, SWEEPING ROADWAYS AND CLEANING STORMWATER INLETS, AS NEEDED.



USA ENVIRONMENT & INFRASTRUCTURE, INC.
 1101 Channelside Drive
 Suite 200
 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 PUBLIC WORKS
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

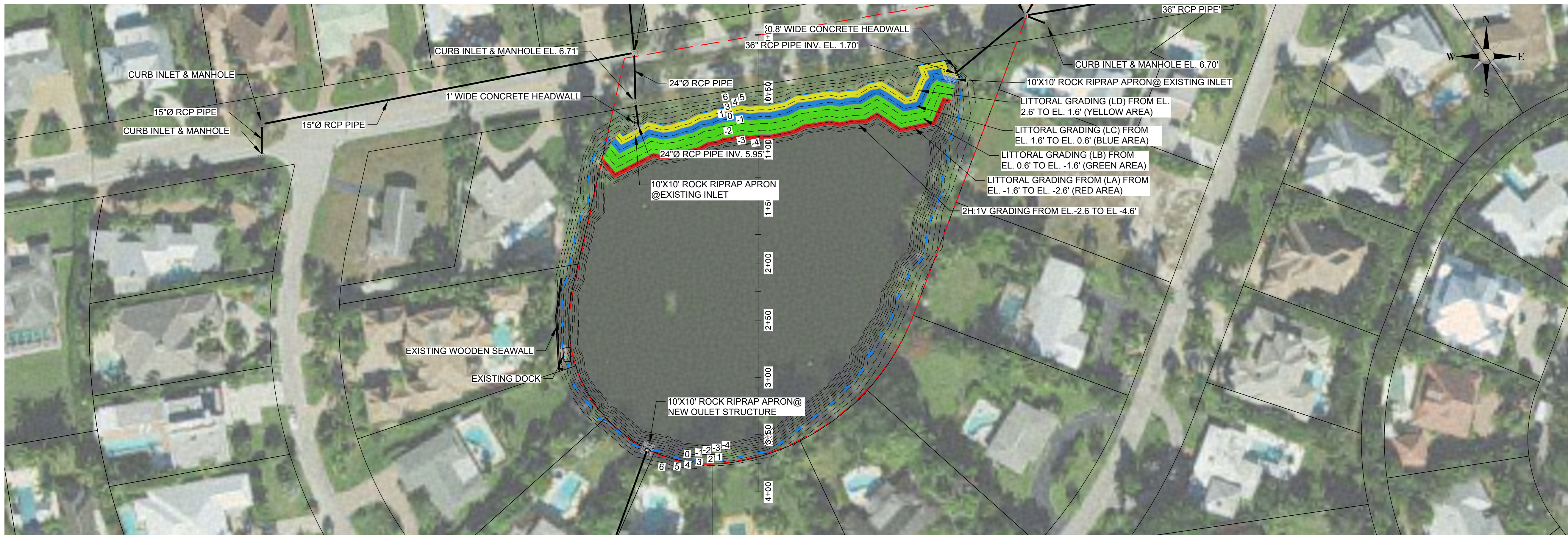
REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 28, 2023

SHEET TITLE:
**MAINTENANCE OF
 TRAFFIC CONTROL
 PLAN**

SHEET NUMBER:	REV. #
C-104_8	
SHEET 06 OF 16 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 C:\GARY\WORK MAPS-NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWGS\C-201_8.dwg LAYOUT: LITTORAL PLANTING AND GRADING PLAN AND PROFILE
 SAVED: 6/27/2023 1:07 PM PLOTSTYLETABLE: ... PLOTTED: 6/28/2023 12:23 PM DRAWN BY: BOLTON, GARY P.

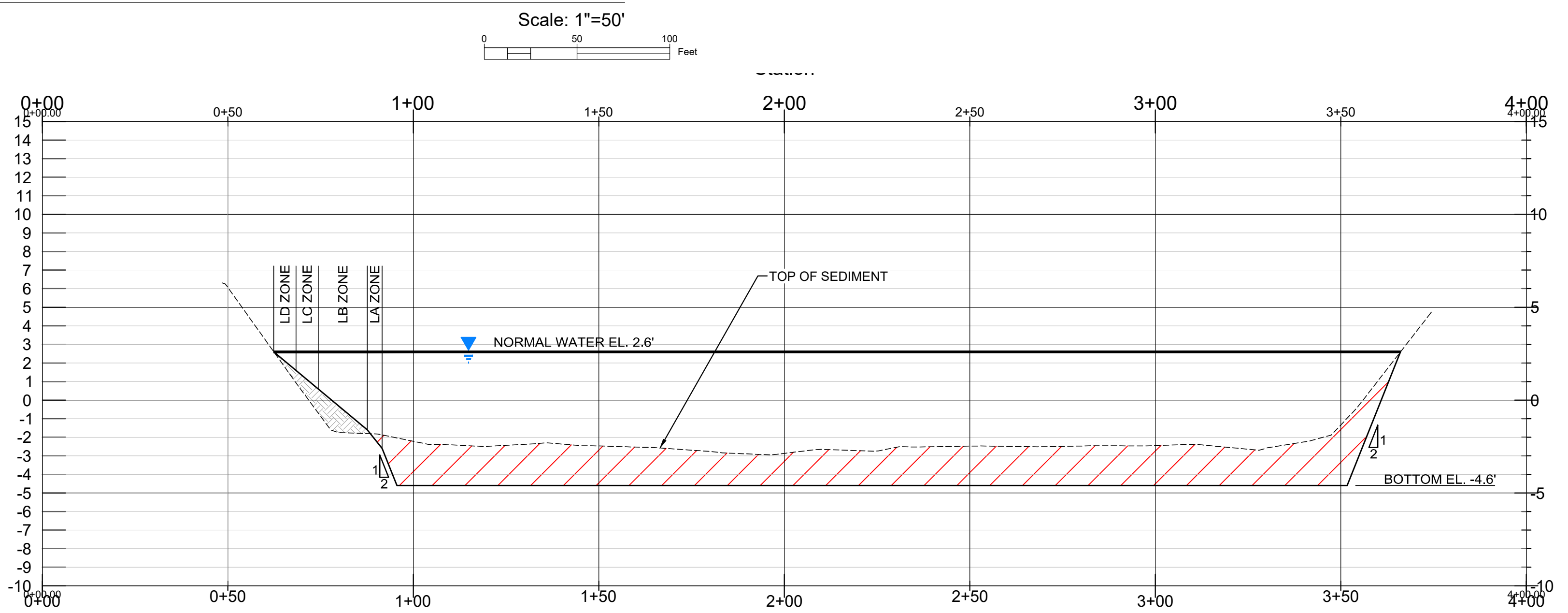


1 PROFILE LOCATION PLAN - LAKE 8

NOTE:
 CONTRACTOR SHALL STAY A MINIMUM OF 10 FEET FROM EXISTING DOCKS / SEAWALLS TO AVOID DAMAGE TO PRIVATE PROPERTY

LEGEND

SYMBOL	COMMON NAME	BOTANICAL NAME	DEPTH	SLOPE	AREA (SQ. FT.)
LITTORAL PLANTINGS					
	LITTORAL MIX D (LD)	CINNAMON FERN / SWAMP ROSEMALLOW	EL. 2.6' TO EL. 1.6'	6:1 SLOPE	2061
	LITTORAL MIX C (LC)	DUCK POTATO / BROADLEAF ARROWHEAD	EL. 1.6' TO EL. 0.6'	6:1 SLOPE	2062
	LITTORAL MIX B (LB)	BULL RUSH / SPIKE RUSH	EL. 0.6' TO EL. -1.6'	6:1 SLOPE	4470
	LITTORAL MIX A (LA)	FRAGRANT WATERLILY	EL. -1.6' TO EL. -2.6'	4:1 SLOPE	2061
	FILL AREA (APPROXIMATELY 267 CU. YDS)				
	CUT AREA (APPROXIMATELY 6069 CU. YDS.)				



2 NORTH - SOUTH PROFILE VIEW

- NOTES:
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 - THE BATHYMETRIC DATA FOR PROJECT WAS COMPILED BY WSP IN MONTH YEAR. ELECTRONIC FILES OF DATA WILL BE SUPPLIED TO CONTRACTOR FOR BIDDING PURPOSES.
 - CUT AND FILL VOLUMES ARE APPROXIMATE AND ARE BASED ON PROPOSED SURFACE.



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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 PUBLIC WORKS
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

REVISIONS

NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
**LITTORAL PLANTING
 AND GRADING PLAN
 AND PROFILE**

SHEET NUMBER:	REV. #
C-201_8	
SHEET 07 OF 16 SHEETS	

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

PROJECT NUMBER: 600843.03 CITY: TAMPA
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LEGEND

SYMBOL	COMMON NAME	BOTANICAL NAME	DEPTH	SLOPE	AREA (SQ. FT.)
LITTORAL PLANTINGS					
[Yellow Box]	LITTORAL MIX D (LD)	CINNAMON FERN / SWAMP ROSEMALLOW	EL. 2.6' TO EL. 1.6'	6:1 SLOPE	2061
[Blue Box]	LITTORAL MIX C (LC)	DUCK POTATO / BROADLEAF ARROWHEAD	EL. 1.6' TO EL. 0.6'	6:1 SLOPE	2062
[Green Box]	LITTORAL MIX B (LB)	BULL RUSH / SPIKE RUSH	EL. 0.6' TO EL. -1.6'	6:1 SLOPE	4470
[Red Box]	LITTORAL MIX A (LA)	FRAGRANT WATERLILY	EL. -1.6' TO EL. -2.6'	4:1 SLOPE	2061
[Hatched Box]	FILL AREA (APPROXIMATELY 267 CU. YDS)				
[Diagonal Lines Box]	CUT AREA (APPROXIMATELY 6069 CU. YDS.)				

[Dashed Line]	EXISTING CONTOURS
[Blue Dashed Line]	NORMAL LAKE WATER LEVEL EL. 2.6'
[Red Dashed Box]	APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.36 ACRES)
[Square]	PROPOSED WATER CONTROL STRUCTURE
[Circle]	PROPOSED INLET FILTER
[Circle]	PROPOSED AERATOR

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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
CITY OF NAPLES LAKES RESTORATION

City of *Naples* Florida

CLIENT:
CITY OF NAPLES PUBLIC WORKS DEPARTMENT
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
600843.03

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS

NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 28, 2023

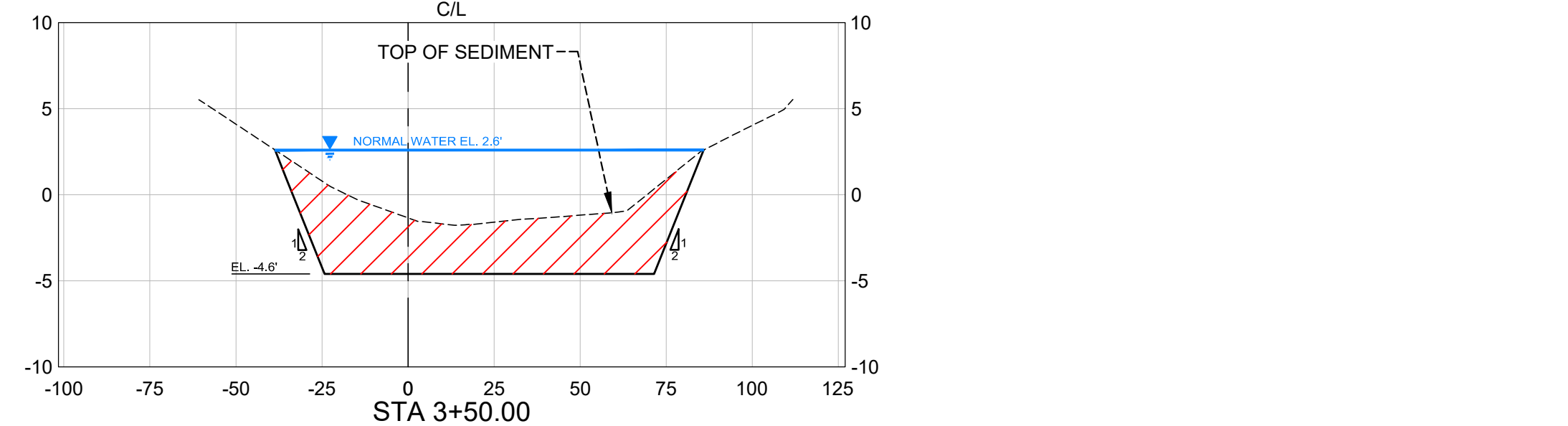
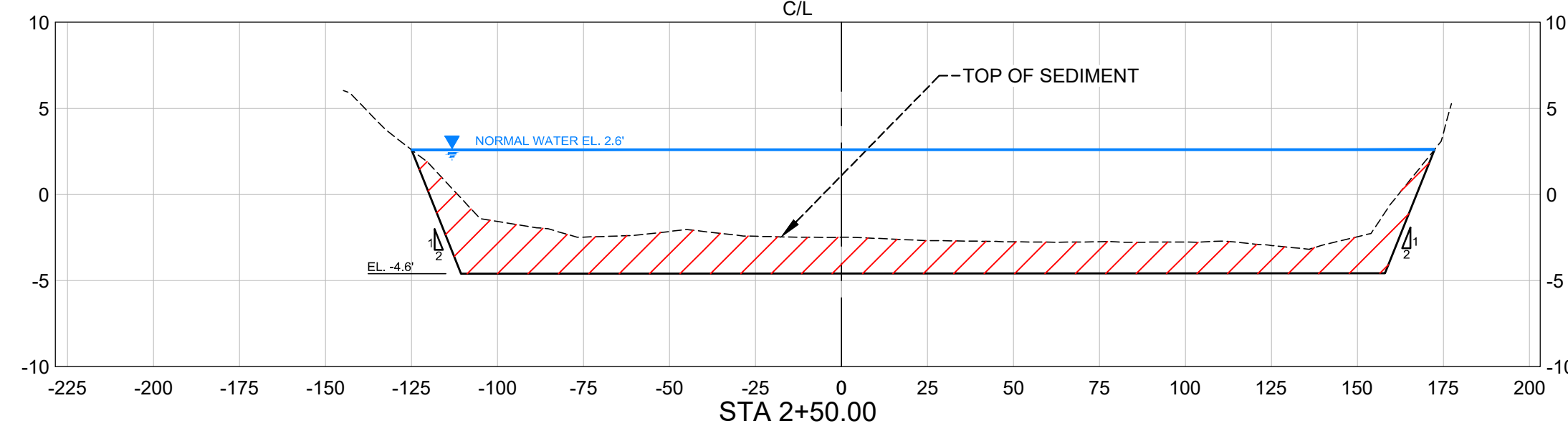
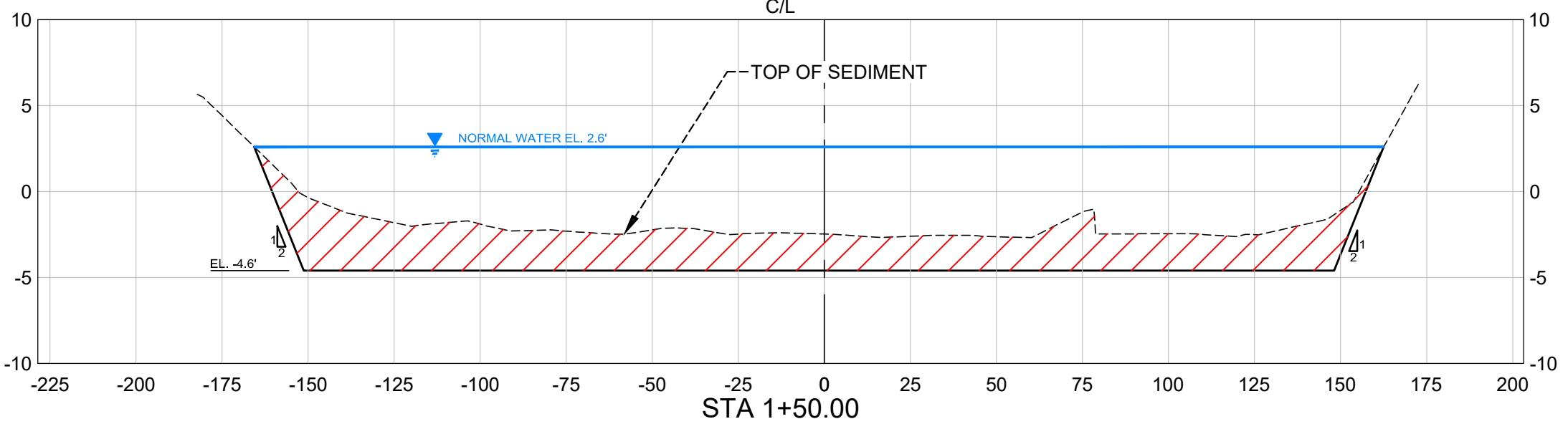
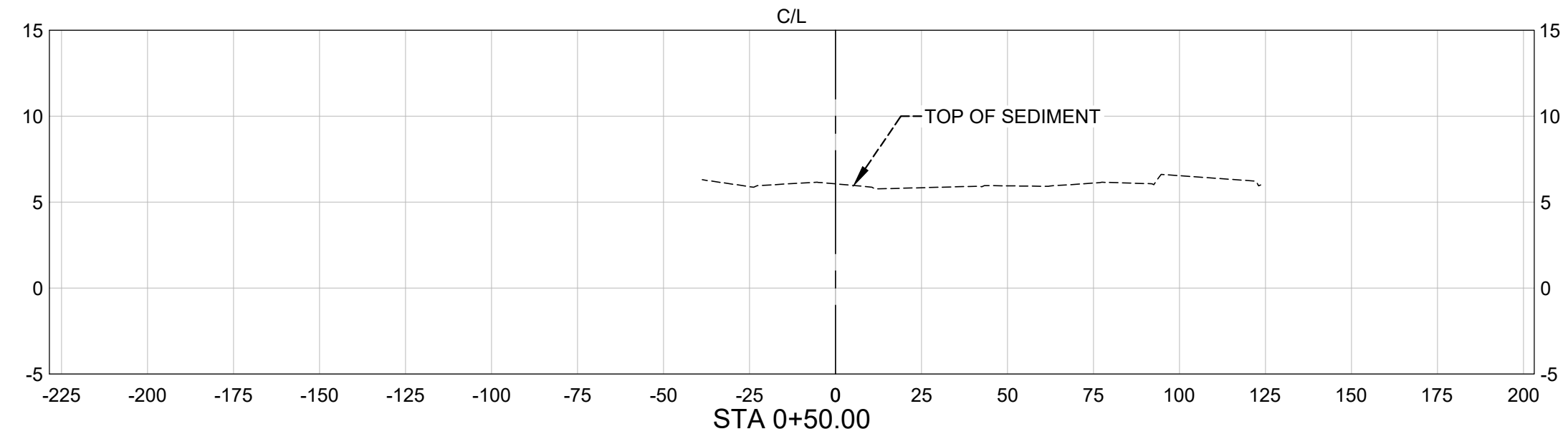
SHEET TITLE:
CROSS SECTION LOCATION PLAN LAKE 8

SHEET NUMBER:	REV. #
C-301_8	

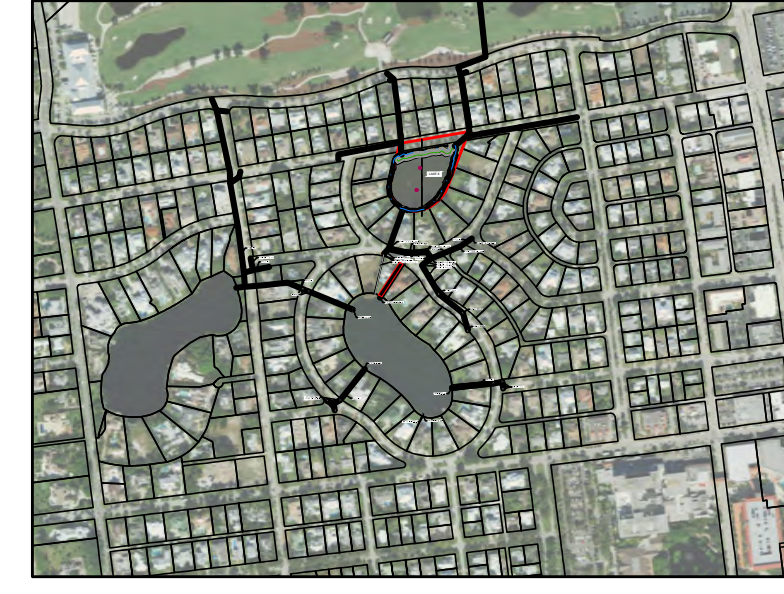
SHEET 08 OF 16 SHEETS

1 PROPOSED CROSS-SECTION LOCATION PLAN - LAKE 8

Scale: 1"=80'
 0 80 160 Feet



- NOTES:**
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 - THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKES 8, AND 9 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ??? YEAR,
 - THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 - THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.



SITE MAP LOCATION

PROJECT NUMBER: 600843.03 CITY: TAMPA
 C:\GARY\WORK MAPS-NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWGS\C-101_9.dwg LAYOUT: EXISTING SITE PLAN LAKE 9 SAVED: 6/27/2023 2:40 PM PLOTSTYLETABLE: ... PLOTTED: 6/28/2023 12:28 PM DRAWN BY: BOLTON, GARY P.



SOURCE: FLORIDA LABINS (OP2019_NC_310245)

- LEGEND**
- 5 --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - CITY OF NAPLES EASEMENT
 - NORMAL LAKE WATER LEVEL EL. 2.6'
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.6 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY

- NOTES:**
1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 2. THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKE 9 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ???? YEAR,
 3. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 4. THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.

1 EXISTING SITE PLAN - LAKE 9
 Scale: 1"=75'
 0 75 150 Feet



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 Suite 200
 Tampa, FL 33602
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 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
 CITY OF NAPLES
 LAKES RESTORATION



CLIENT:
 CITY OF NAPLES
 PUBLIC WORKS
 DEPARTMENT
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
 EXISTING SITE PLAN
 LAKE 9

SHEET NUMBER:	REV. #
C-101_9	
SHEET 09 OF 16 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 C:\GARY\WORK MAPS-NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWGS\C-102_9.dwg LAYOUT: PROPOSED SITE PLAN LAKE 9 SAVED: 6/27/2023 2:07 PM PLOTSTYLETABLE: PLOTTED: 6/28/2023 12:29 PM DRAWN BY: BOLTON, GARY P.



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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 PUBLIC WORKS
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

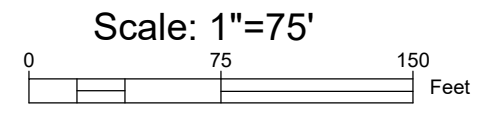
REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
**PROPOSED
 SITE PLAN
 LAKE 9**

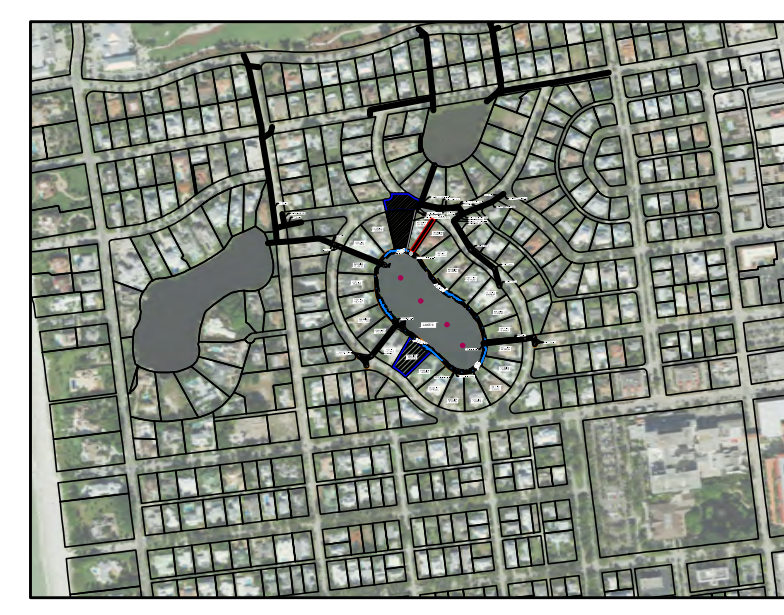
SHEET NUMBER:	REV. #
C-102_9	
SHEET 10 OF 16 SHEETS	

1 PROPOSED SITE PLAN - LAKE 9



- LEGEND**
- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.6 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - PROPOSED STAGING AREA
 - NORMAL WATER LEVEL EL. 2.6'

- NOTES:
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 - THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKE 9 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ???? YEAR,
 - THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 - THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.
 - THE CONTRACTOR SHALL PROTECT THE CYPRESS TREES AND FEET ALONG THE NORTHERN BOUNDARY DURING CONSTRUCTION.



SITE MAP LOCATION

PROJECT NUMBER: 600843.03 CITY: TAMPA
 C:\GARY\WORK MAPS-NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWG\C-103_9.dwg LAYOUT: EROSION & SEDIMENT CONTROL PLAN LAKE 9
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 PLOTTED: 6/27/2023 1:49 PM PLOTSTYLETABLE: ----

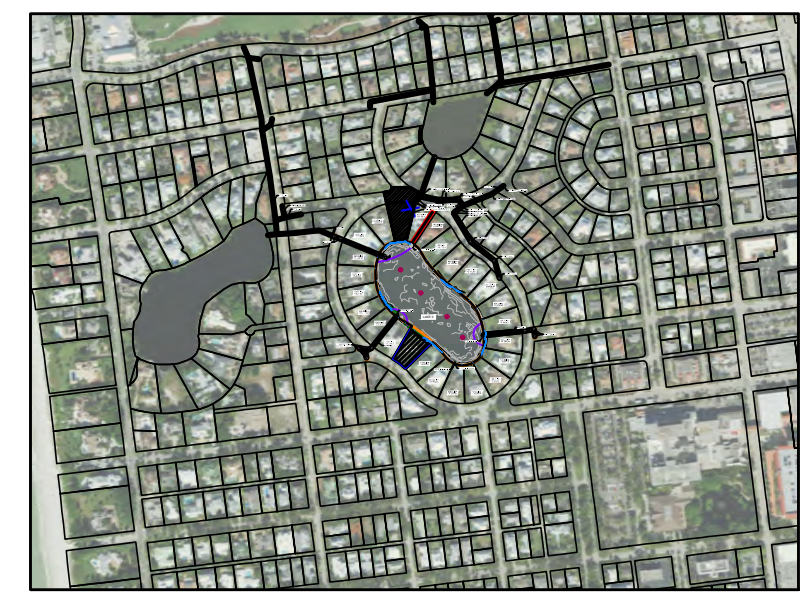


1 PROPOSED EROSION AND SEDIMENT CONTROL PLAN - LAKE 9

Scale: 1"=75'
 0 75 150 Feet

- LEGEND**
- 5 --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - NORMAL LAKE WATER LEVEL EL. 2.6'
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.6 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - WC PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - ⊙ PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - FLOATING TURBIDITY BARRIER
 - TEMPORARY FENCING
 - TEMPORARY SILT FENCING

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADDITIONAL EROSION SEDIMENT CONTROL MEASURES AS NEEDED TO PREVENT AND MINIMIZE SEDIMENT TRANSFER FROM THE PROJECT SITE. THESE MEASURES INCLUDE BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY CURTAIN AND TRUCK CLEANING STATIONS.
 - CONTRACTOR SHALL ENSURE THE SITE IS KEPT IN GOOD CLEAN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT INCLUDING PICKING UP/ DISPOSING OF TRASH, SWEEPING ROADWAYS AND CLEANING STORMWATER INLETS, AS NEEDED.



SITE MAP LOCATION

USA ENVIRONMENT & INFRASTRUCTURE, INC.
 1101 Channelside Drive
 Suite 200
 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**

City of *Naples* Florida

CLIENT:
**CITY OF NAPLES
 PUBLIC WORKS
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
**EROSION &
 SEDIMENT
 CONTROL
 PLAN LAKE 9**

SHEET NUMBER:	REV. #
C-103_9	
SHEET 11 OF 16 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 C:\GARY\WORK MAPS-NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWGS\C-104_9.dwg LAYOUT: PROPOSED MAINTENANCE OF TRAFFIC CONTROL PLAN SAVED: 6/27/2023 1:43 PM PLOTSTYLETABLE: ---- PLOTTED: 6/28/2023 12:35 PM DRAWN BY: BOLTON, GARY P.



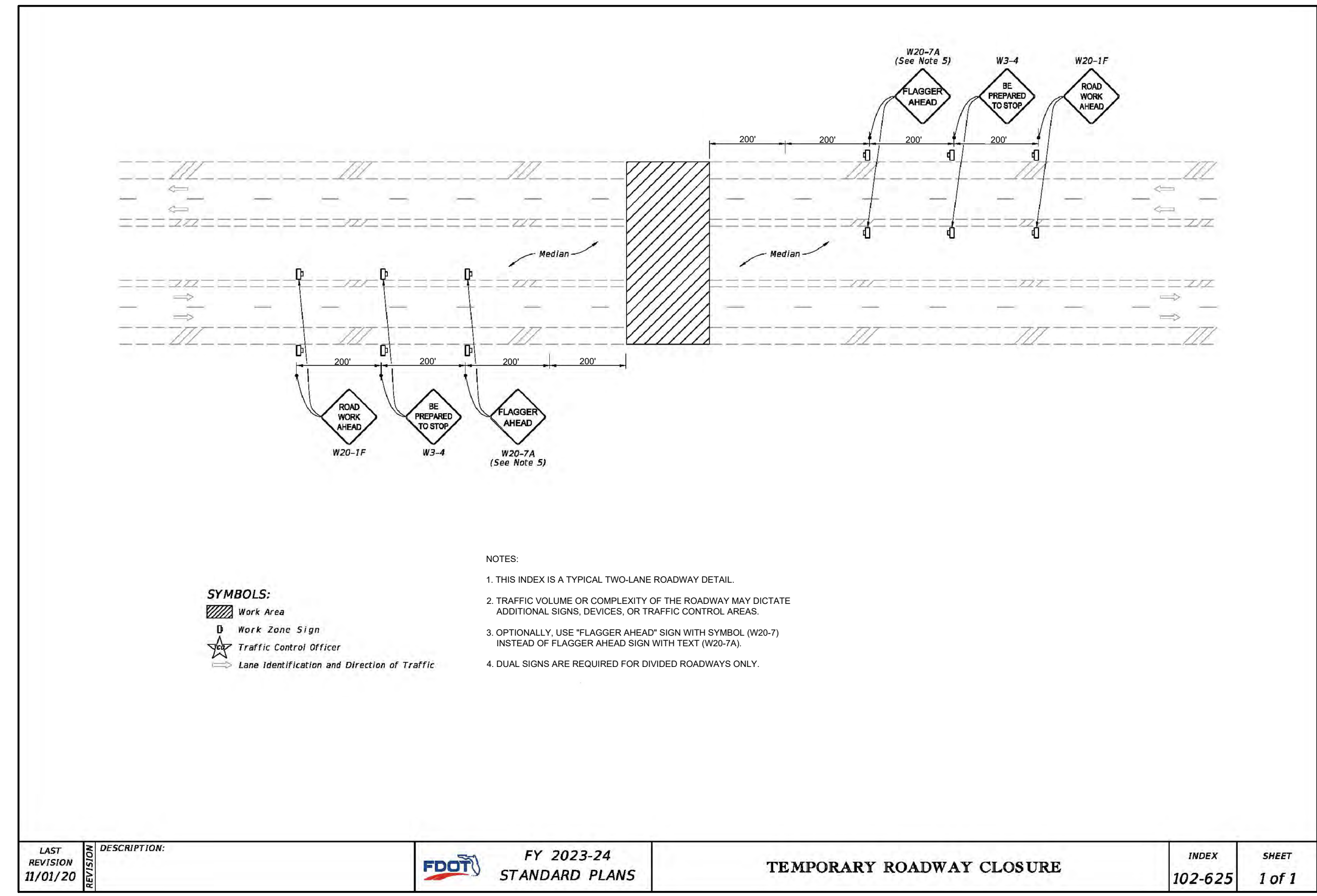
SOURCE: FLORIDA LABINS (OP2019_NC_310245)

LEGEND	
---	EXISTING CONTOURS
---	EXISTING STORMWATER PIPES
---	APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.6 ACRES)
---	COLLIER COUNTY PARCEL BOUNDARY
WC	PROPOSED WATER CONTROL STRUCTURE
IF	PROPOSED INLET FILTER
A	PROPOSED AERATOR
---	INVASIVE SPECIES (TO BE REMOVED)
---	FLOATING TURBIDITY BARRIER
---	TEMPORARY FENCING
---	TEMPORARY SILT FENCING
---	NORMAL WATER LEVEL EL. 2.6'

1 PROPOSED MAINTENANCE OF TRAFFIC CONTROL PLAN - LAKE 9

NOT TO SCALE

- NOTES:
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADDITIONAL EROSION SEDIMENT CONTROL MEASURES AS NEEDED TO PREVENT AND MINIMIZE SEDIMENT TRANSFER FROM THE PROJECT SITE. THESE MEASURES INCLUDE BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY CURTAIN AND TRUCK CLEANING STATIONS.
 - CONTRACTOR SHALL ENSURE THE SITE IS KEPT IN GOOD CLEAN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT INCLUDING PICKING UP/ DISPOSING OF TRASH, SWEEPING ROADWAYS AND CLEANING STORMWATER INLETS, AS NEEDED.



60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

USA ENVIRONMENT & INFRASTRUCTURE, INC.
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 Suite 200
 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
CITY OF NAPLES LAKES RESTORATION

City of *Naples* Florida

CLIENT:
CITY OF NAPLES PUBLIC WORKS DEPARTMENT
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

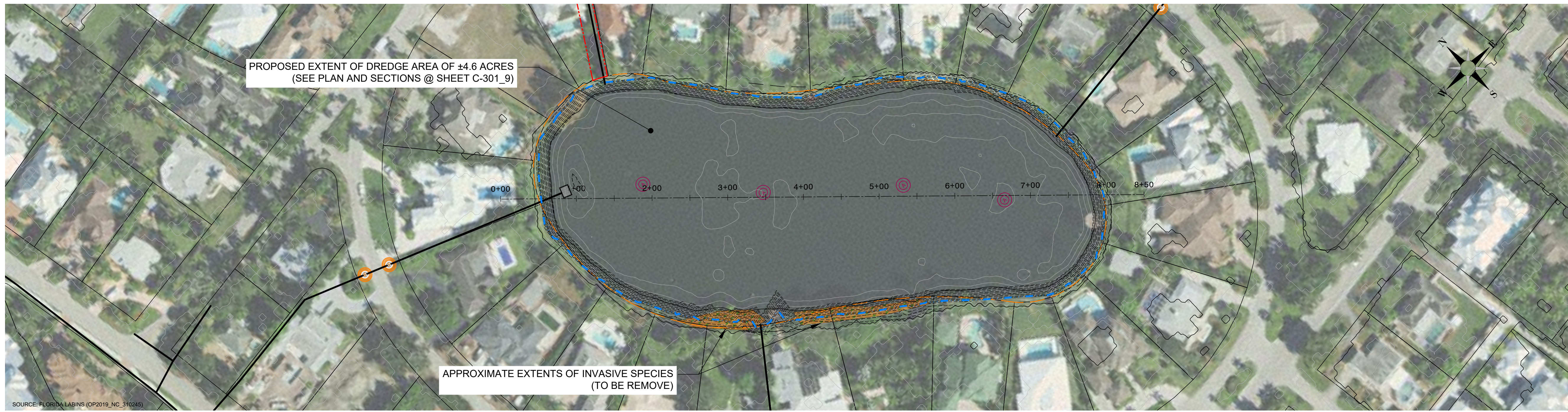
REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

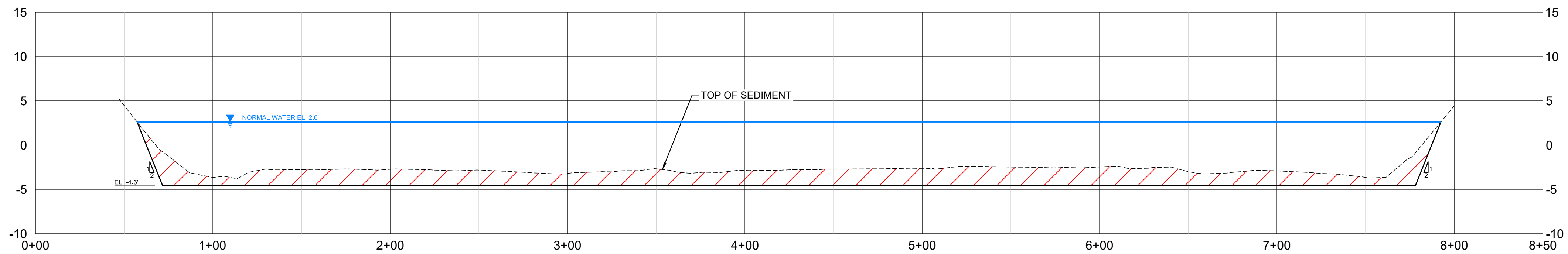
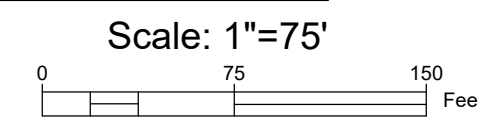
SHEET TITLE:
PROPOSED MAINTENANCE OF TRAFFIC CONTROL PLAN

SHEET NUMBER:	REV. #
C-104_9	
SHEET 12 OF 16 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 C:\GARY\WORK MAPS-NEW PROJECTS\31406755.001 CITY OF NAPLES\02_DATA\REF\DWGS\C-201_9.dwg LAYOUT: PROFILE VIEW & LOCATION LAKE 9 SAVED: 6/27/2023 2:07 PM PLOTSTYLETABLE: ... PLOTTED: 6/28/2023 12:39 PM DRAWN BY: BOLTON, GARY P.



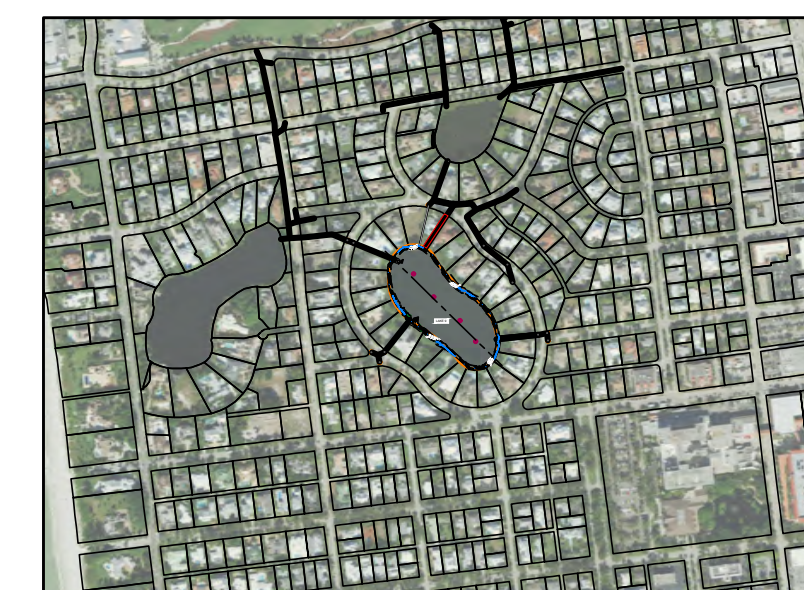
1 PROFILE LOCATION PLAN - LAKE 9



2 NORTHWEST - SOUTHEAST PROFILE VIEW

- LEGEND**
- 5 --- MAJOR TOPOGRAPHIC CONTOUR
 - EXISTING STORMWATER PIPES
 - NORMAL LAKE WATER LEVEL EL. 2.6'
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.84 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - ▨ FILL AREA (APPROXIMATELY 10 CU. YDS.)
 - ▨ CUT AREA (APPROXIMATELY 15,764 CU. YDS.)
 - NORMAL WATER LEVEL EL. 2.6'

- NOTES:**
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 - THE BATHYMETRIC DATA FOR PROJECT WAS COMPILED BY WSP IN MONTH YEAR. ELECTRONIC FILES OF DATA WILL BE SUPPLIED TO CONTRACTOR FOR BIDDING PURPOSES.
 - CUT AND FILL VOLUMES ARE APPROXIMATE AND BASED ON PROPOSED SURFACE.



SITE MAP LOCATION



USA ENVIRONMENT & INFRASTRUCTURE, INC.
 1101 Channelside Drive
 Suite 200
 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 PUBLIC WORKS
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
600843.03

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

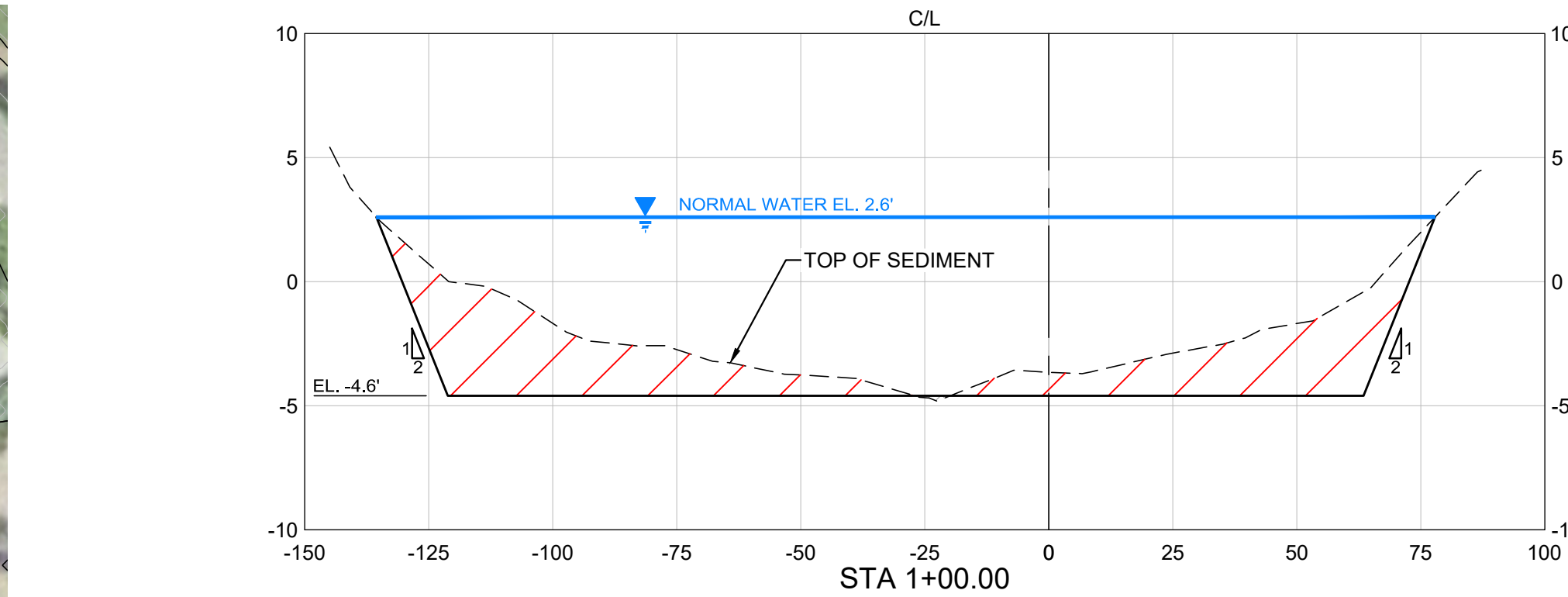
SHEET TITLE:
**PROFILE VIEW
 & LOCATION
 LAKE 9**

SHEET NUMBER:	REV. #
C-201_9	
SHEET 13 OF 16 SHEETS	

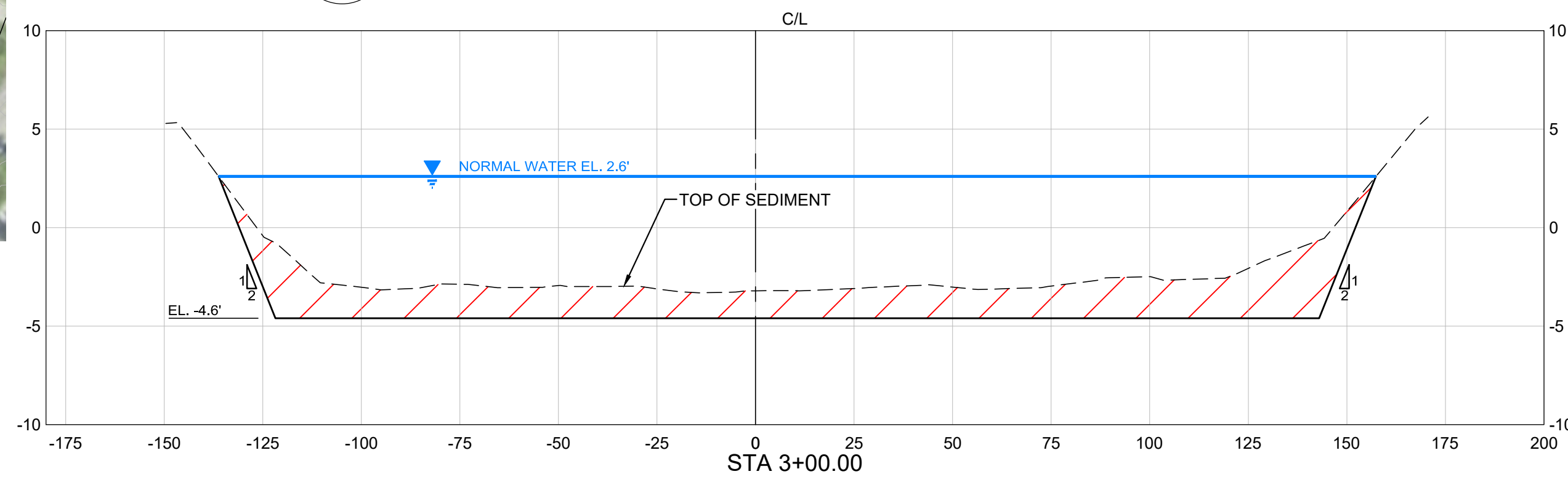
PROJECT NUMBER: 600843.03 CITY: TAMPA
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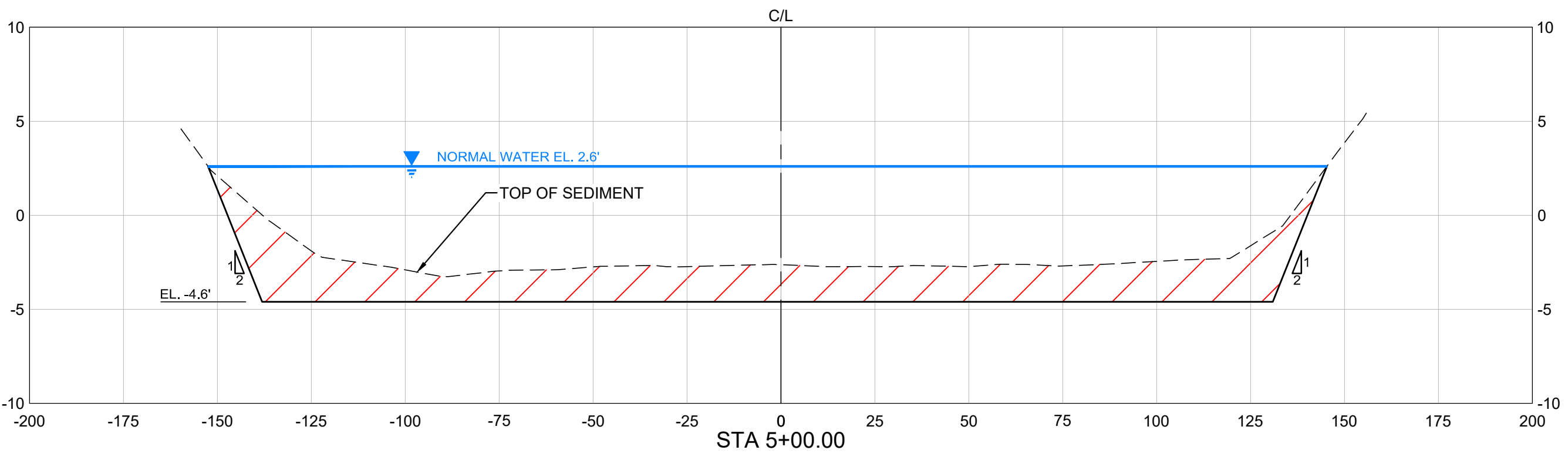
1 PROPOSED CROSS SECTION LOCATION PLAN - LAKE 9
 NOT TO SCALE



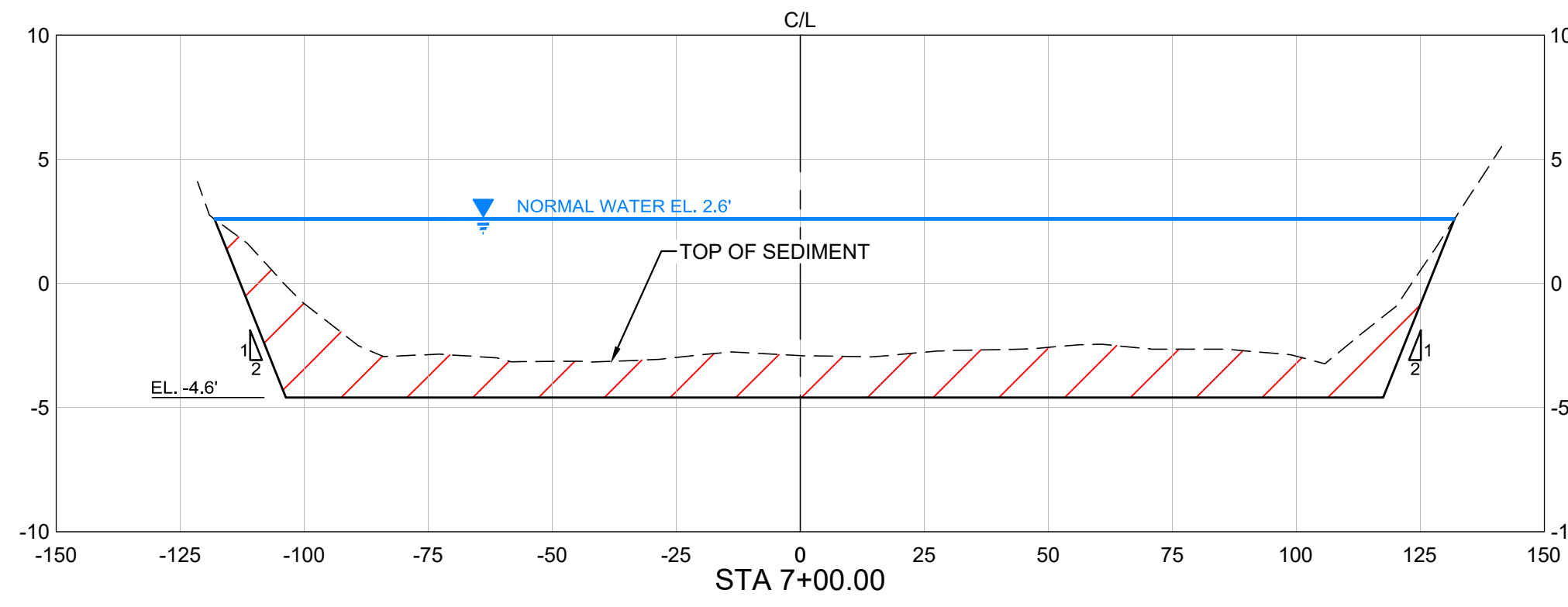
1 CROSS SECTION STA 1+00.00



2 CROSS SECTION STA 3+00.00



3 CROSS SECTION STA 5+00.00



4 CROSS SECTION STA 7+00.00

- LEGEND**
- 5 --- MAJOR TOPOGRAPHIC CONTOUR
 - EXISTING STORMWATER PIPES
 - NORMAL WATER LEVEL EL. 2.6'
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.84 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - ▨ FILL AREA (APPROXIMATELY 10 CU. YDS.)
 - ▧ CUT AREA (APPROXIMATELY 15,764 CU. YDS.)
 - ☀ INVASIVE SPECIES (TO BE REMOVED)
 - ⊠ PROPOSED WATER CONTROL STRUCTURE
 - ⊙ PROPOSED INLET FILTER
 - ⊙ PROPOSED AERATOR

- NOTES:**
1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 2. THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKE 9 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ??? YEAR,
 3. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 4. THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.
 5. THE CONTRACTOR SHALL PROTECT THE CYPRESS TREES AND FEET ALONG THE NORTHERN BOUNDARY DURING CONSTRUCTION.



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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 PUBLIC WORKS
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

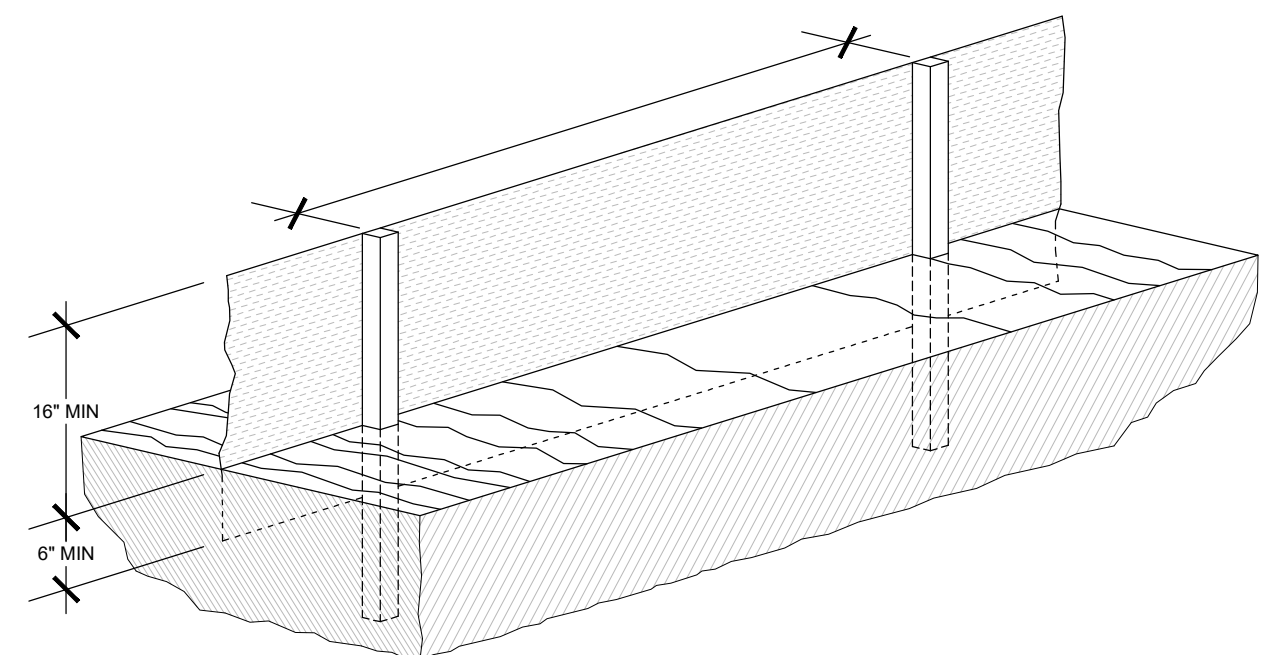
REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

SHEET TITLE:
**CROSS SECTION
 LOCATION PLAN
 AND SECTIONS
 LAKE 9**

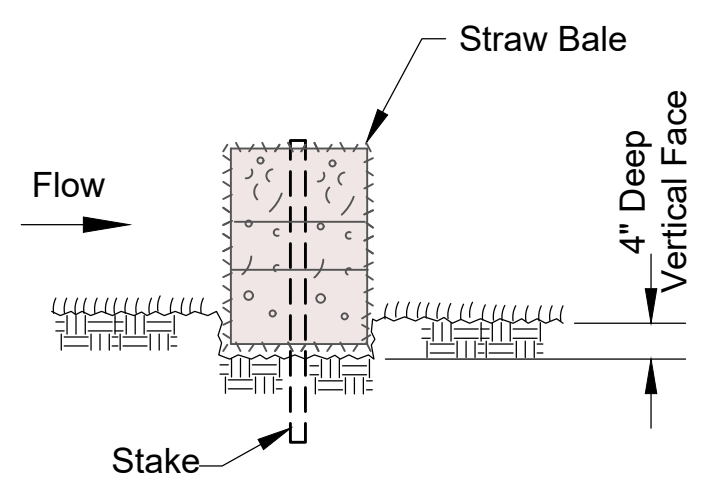
SHEET NUMBER:	REV. #
C-301_9	
SHEET 14 OF 16 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
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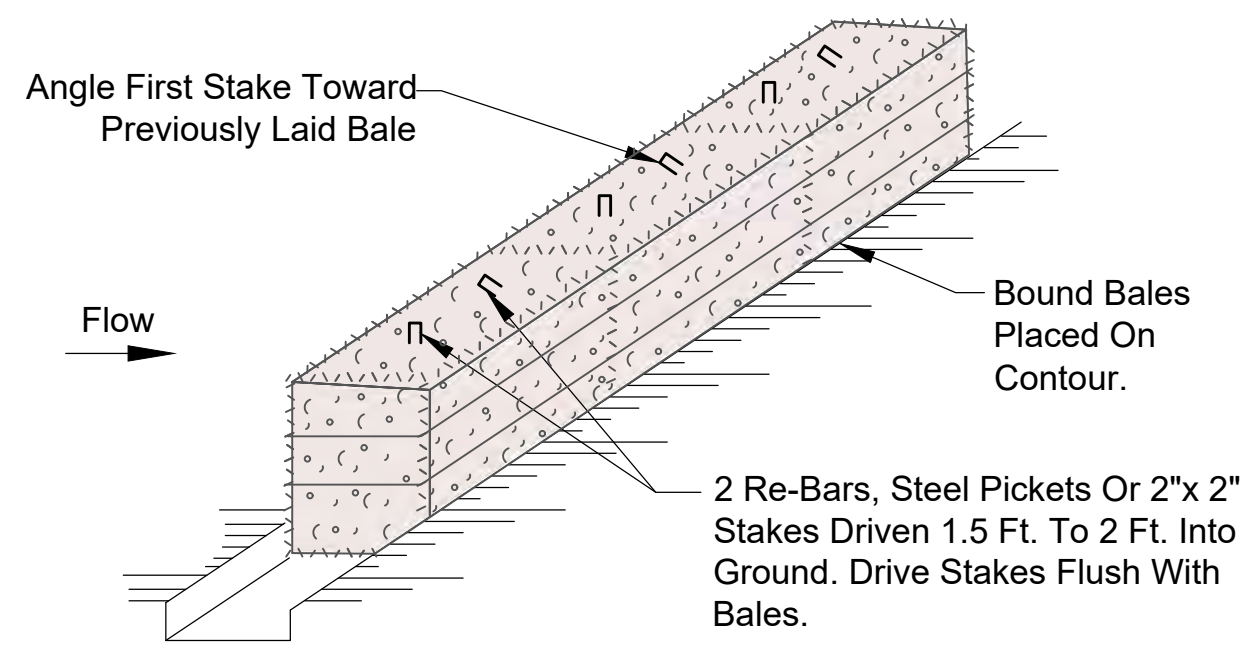


1 TYPICAL SILT FENCE DETAIL

Not To Scale



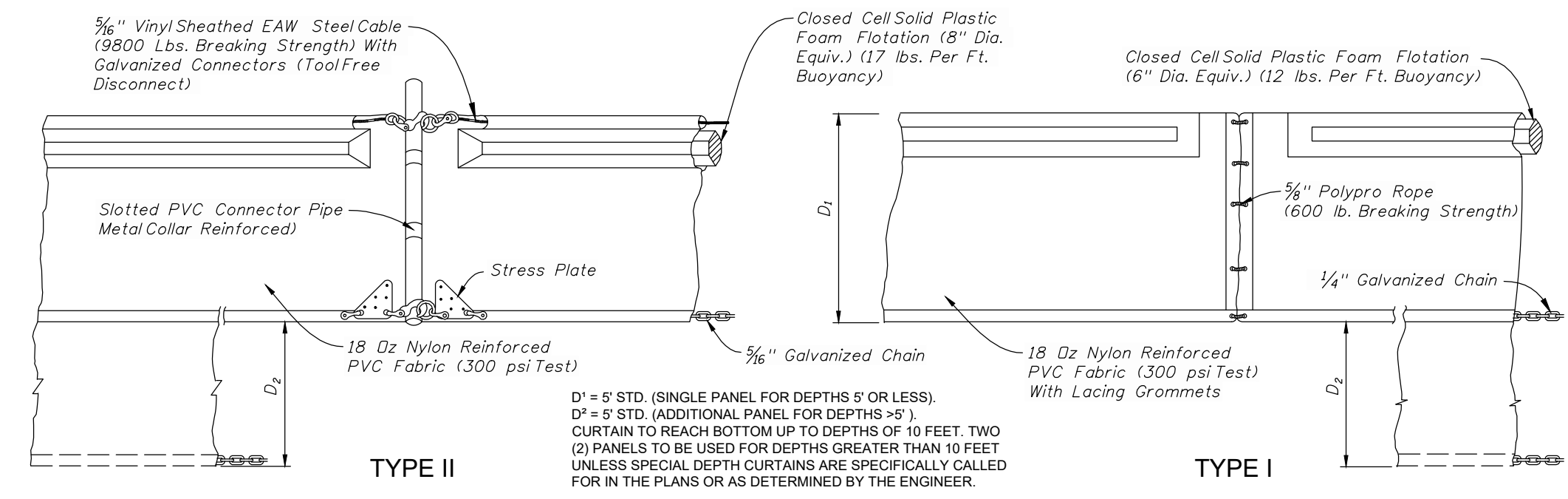
BEDDING DETAIL



ANCHORING DETAIL

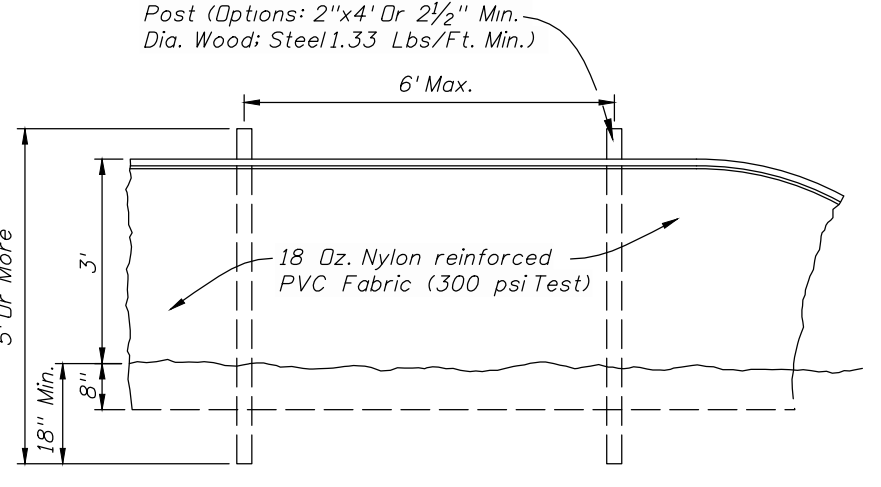
2 TYPICAL HAY/STAW BALE DETAIL

Not To Scale

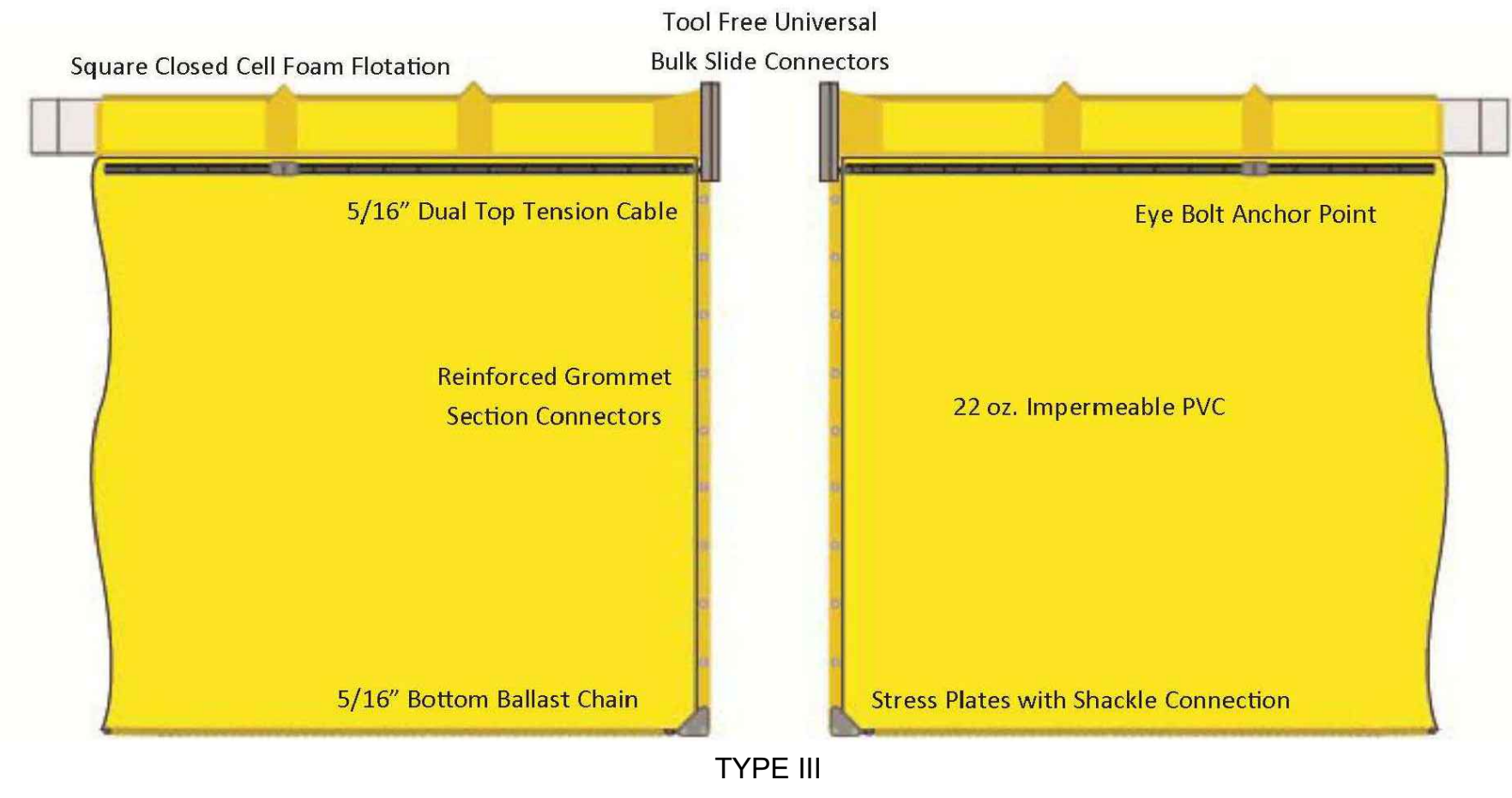


NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS

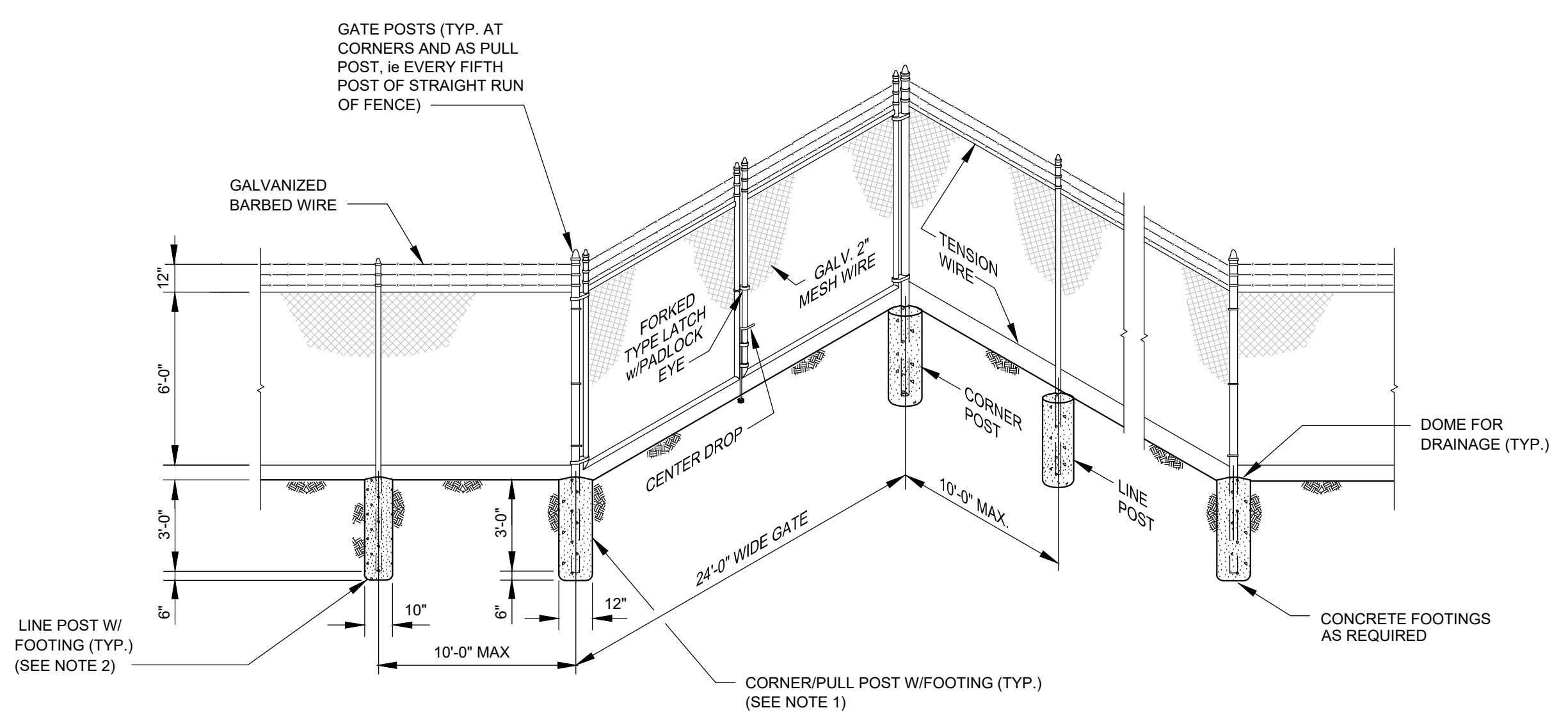


STAKED TURBIDITY BARRIER



3 TURBIDITY BARRIERS DETAIL

Not To Scale



4 TYPICAL FENCE / GATE DETAIL

Not To Scale

60% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

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City of *Naples* Florida

CLIENT:
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 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

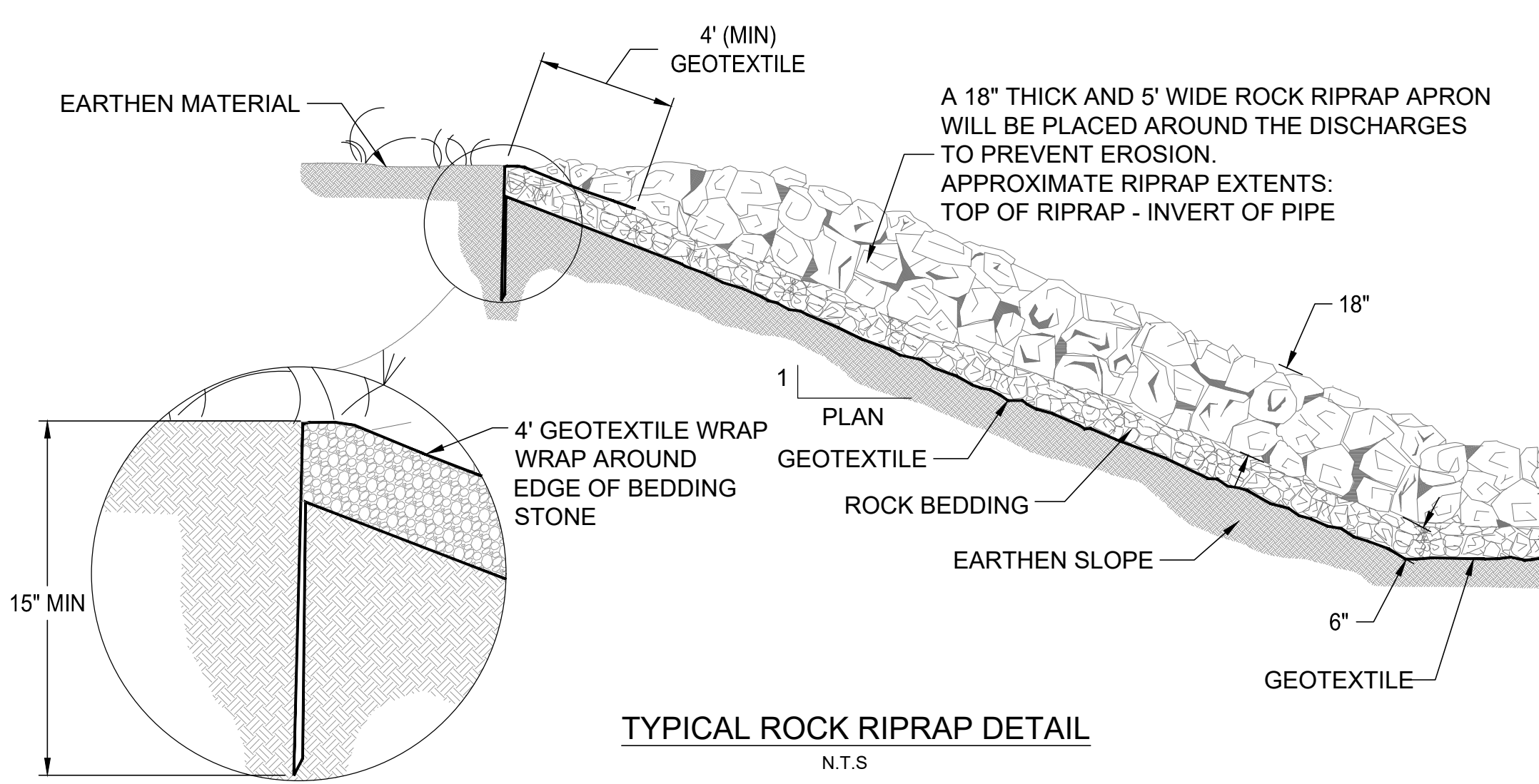
REVISIONS			
NO.	DATE	BY	APPROVED
A	3/24/23	MV	GC
B	6/7/23	GB	GC

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 27, 2023

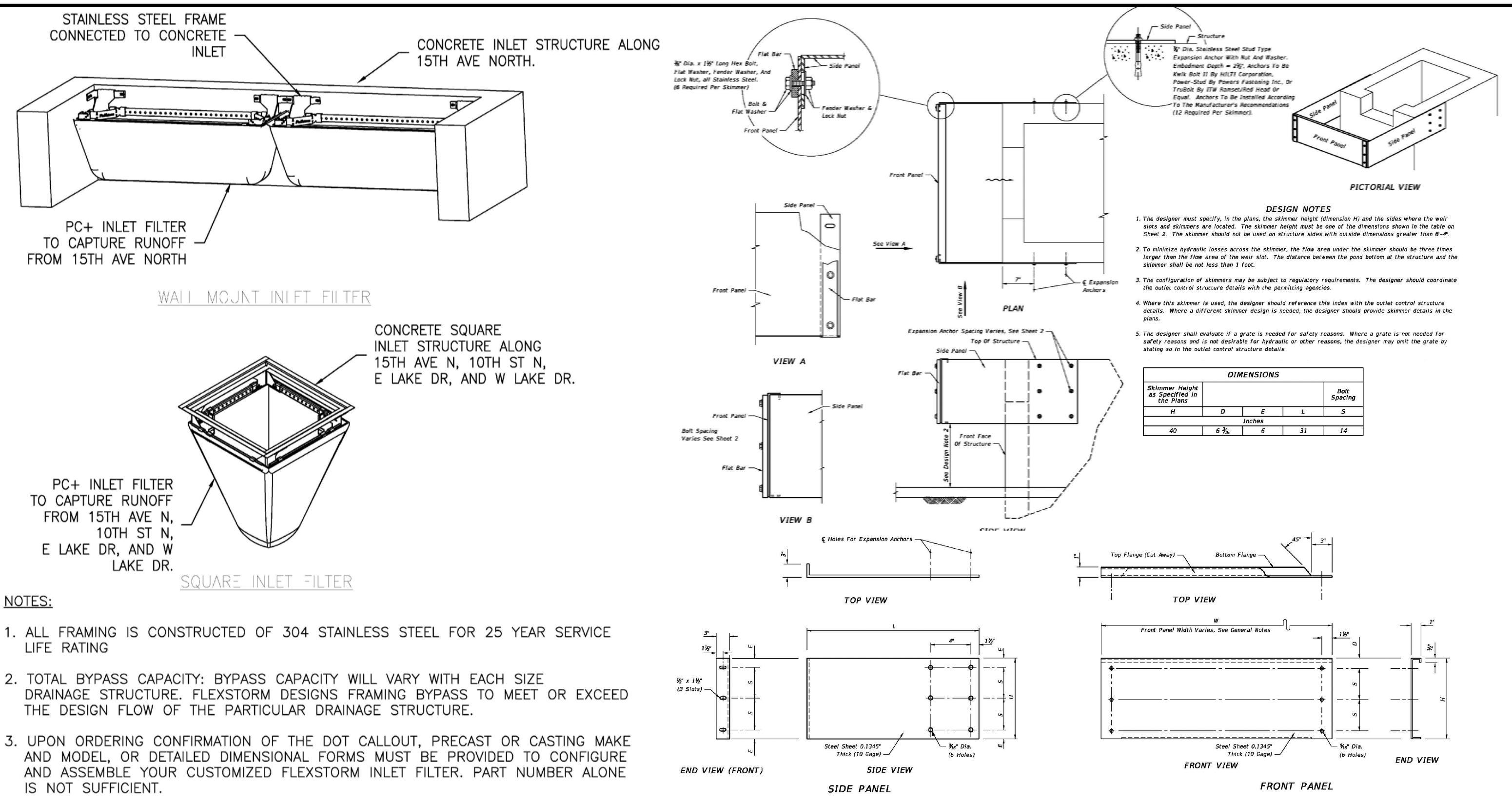
SHEET TITLE:
**DESIGN DETAILS
 (1 OF 2)**

SHEET NUMBER:	REV. #
C-501	
SHEET 15 OF 16 SHEETS	

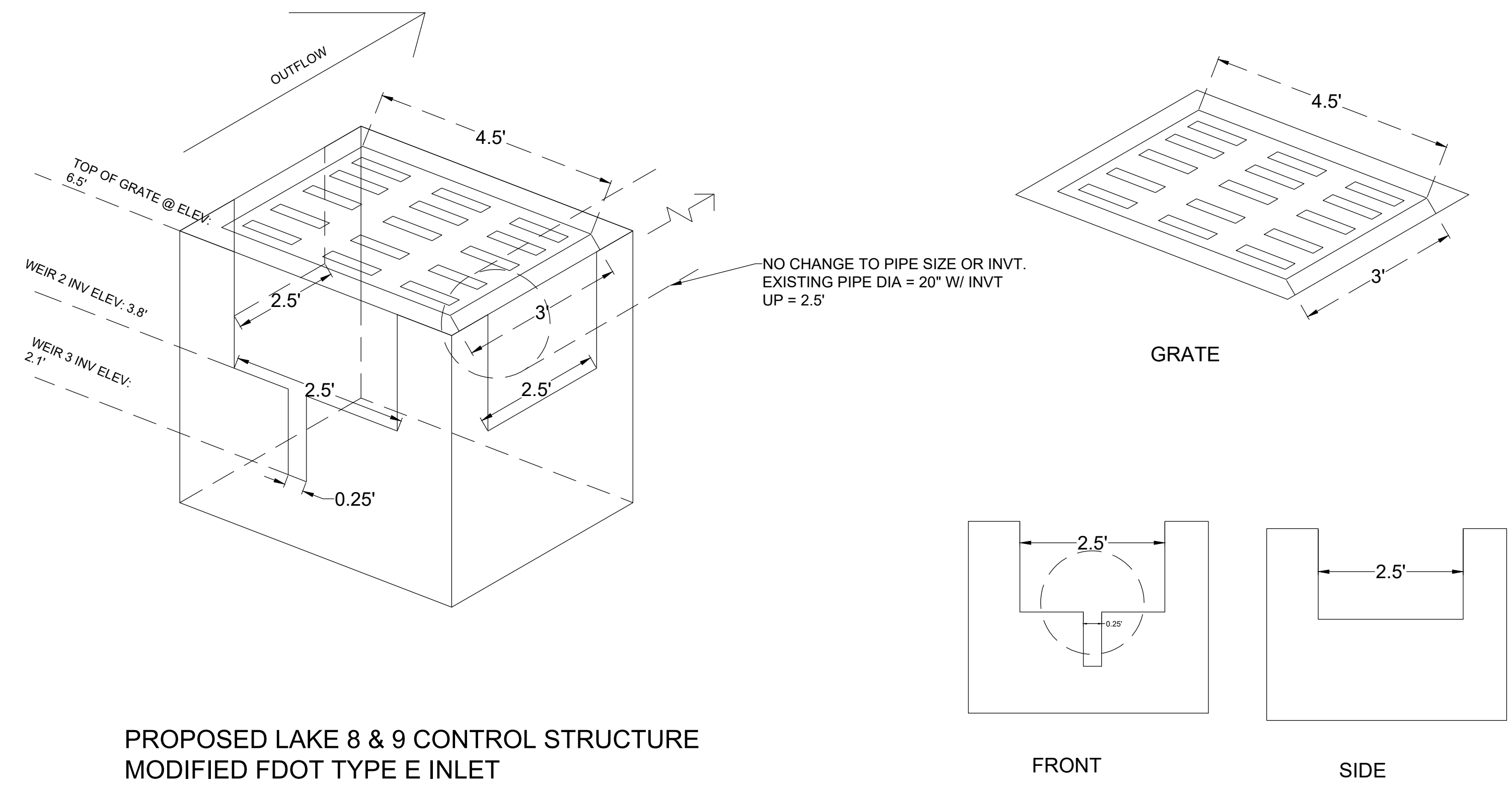
PROJECT NUMBER: 600843.03 CITY: TAMPA
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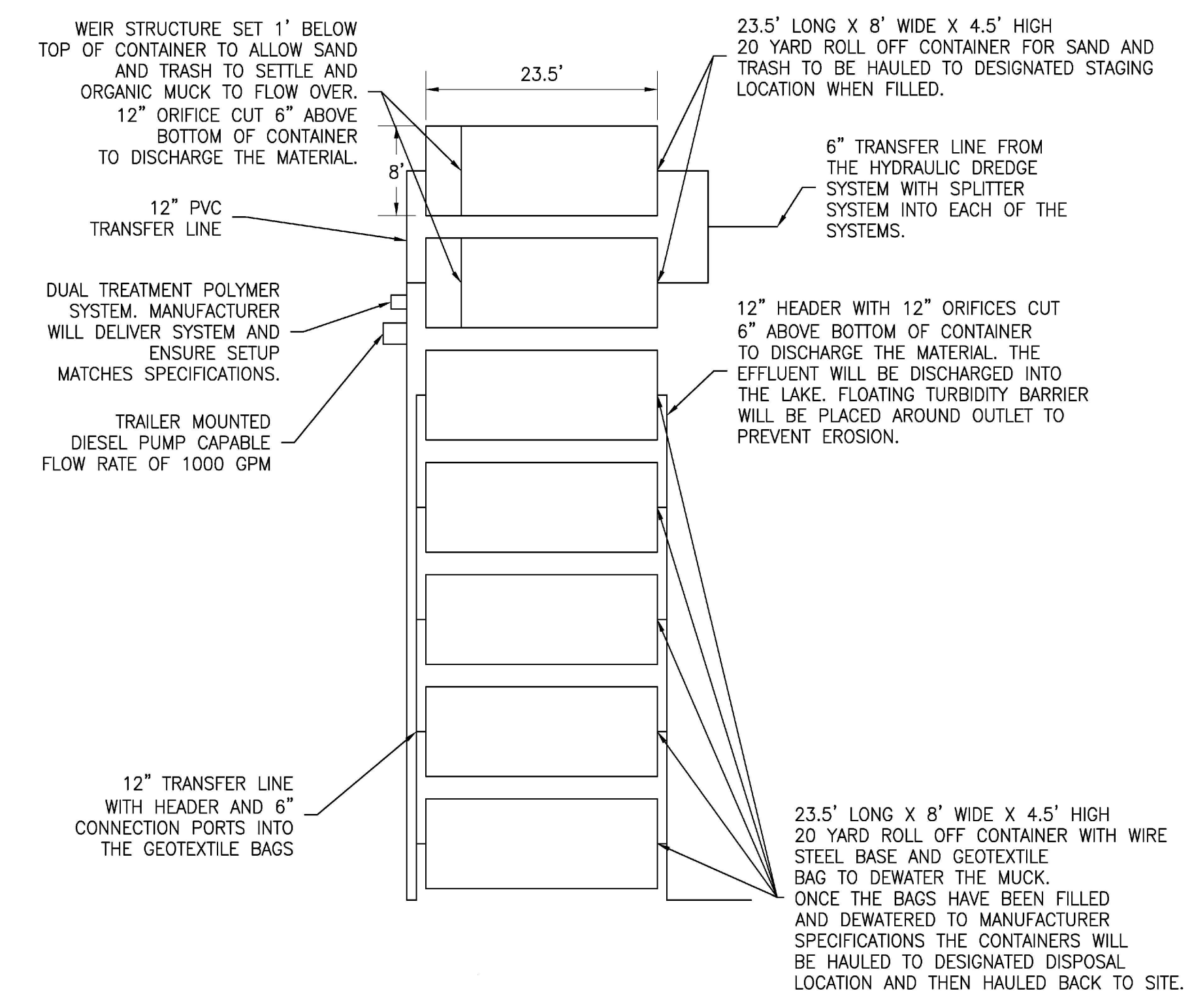
5 TYPICAL ROCK RIPRAP DETAIL
 NOT TO SCALE



6 INLET FILTER DETAILS
 NOT TO SCALE



7 WATER CONTROL STRUCTURE DETAILS
 NOT TO SCALE



8 DEWATERING DETAIL
 NOT TO SCALE

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 FLORIDA PE LICENSE NO. 79293

PROJECT:
CITY OF NAPLES LAKES RESTORATION

City of *Naples* Florida

CLIENT:
CITY OF NAPLES PUBLIC WORKS DEPARTMENT
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

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DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	June 28, 2023

SHEET TITLE:
DESIGN DETAILS (2 OF 2)

SHEET NUMBER:	REV. #
C-502	
SHEET 16 OF 18 SHEETS	