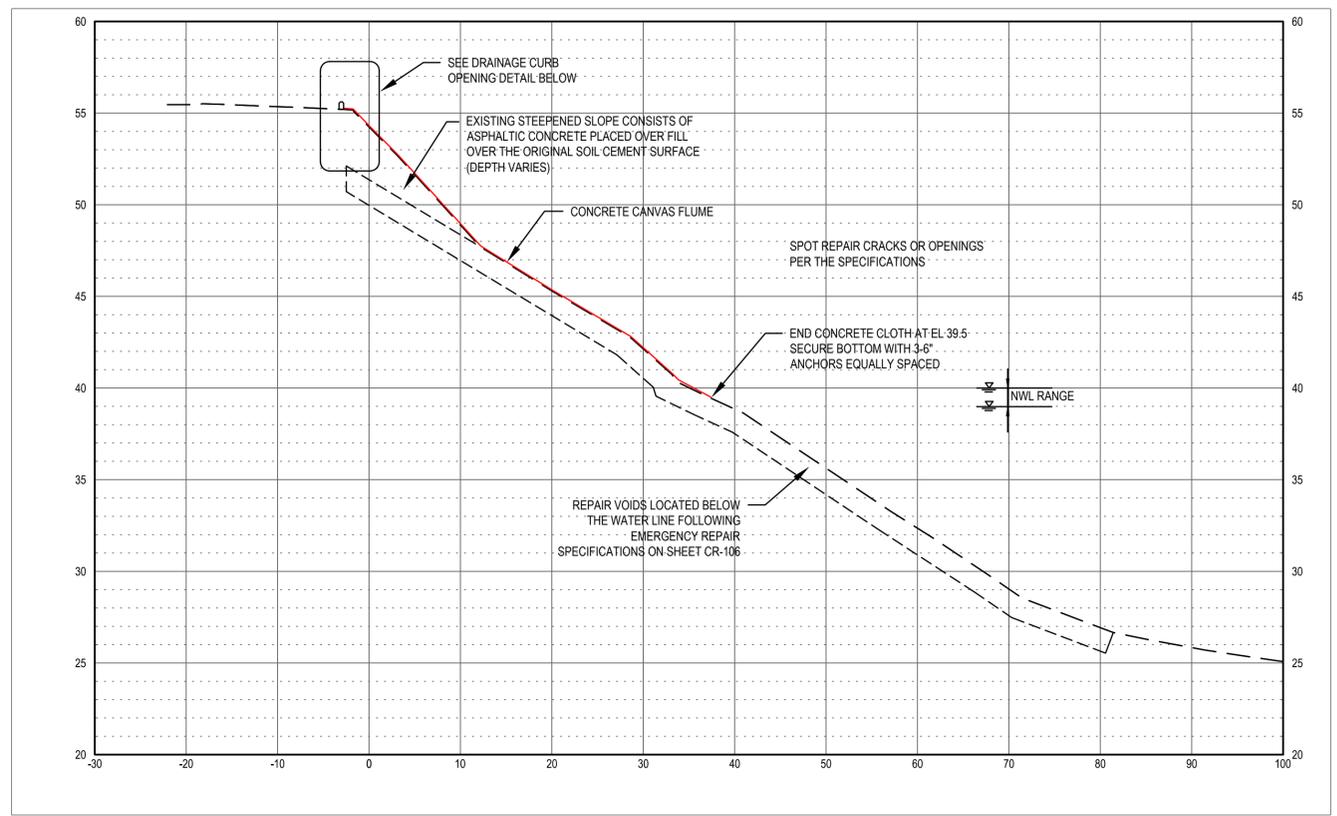
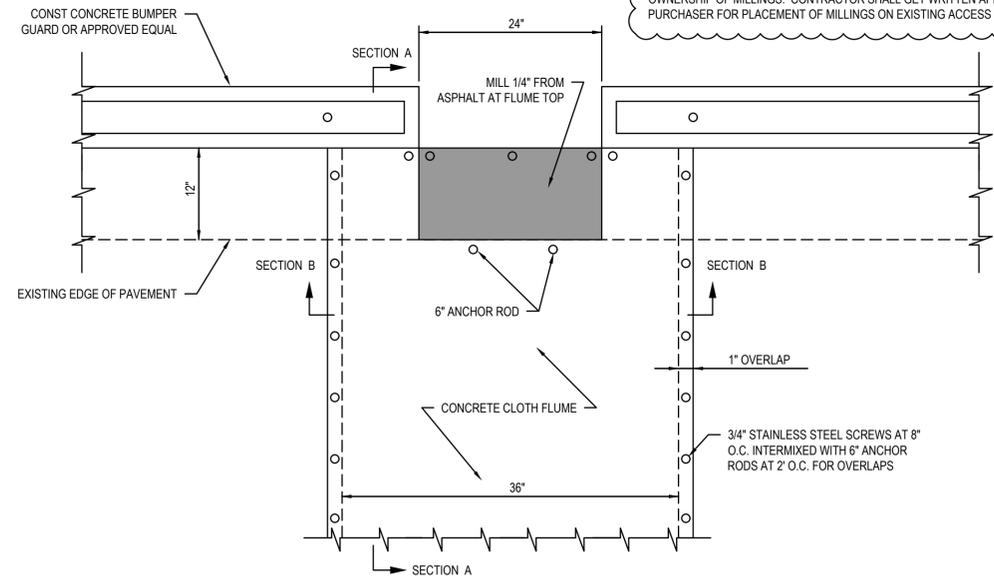


PLAN VIEW

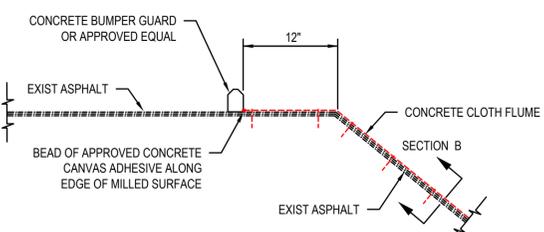


TYPICAL SECTION

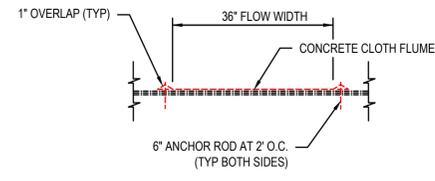
THE EXISTING ASPHALT SHALL BE MILLED 1/4" AT LOCATIONS SHOWN ON THE DRAWINGS TO CREATE A LANDING PAD FOR THE CONCRETE CLOTH FLUME TO BE SECURED AT THE TOP OF THE DRAINAGE CONVEYANCE. SWEEP, REMOVE AND TAKE OWNERSHIP OF MILLINGS. CONTRACTOR SHALL GET WRITTEN APPROVAL FROM PURCHASER FOR PLACEMENT OF MILLINGS ON EXISTING ACCESS ROADS AT THE SITE.



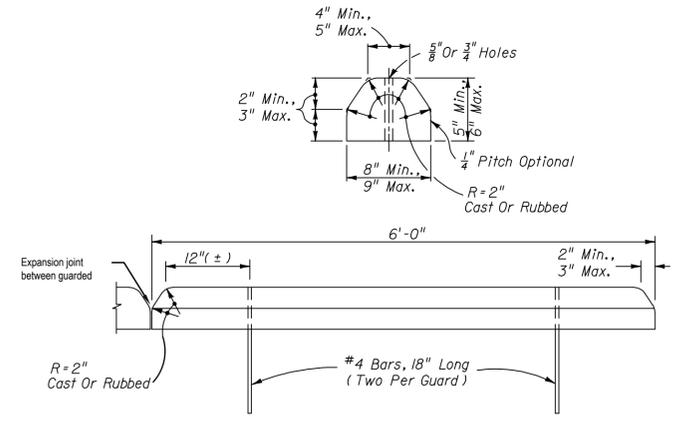
DRAINAGE CURB OPENING DETAIL



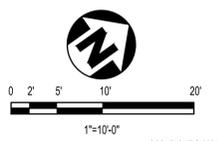
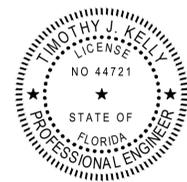
SECTION A



SECTION B



CONCRETE BUMPER GUARD DETAIL



REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REF	NUMBER	TITLE
E	20SEP2021	CONCRETE MILLING NOTE										
D	09 JUL 2021	ISSUED FOR BID										
C	01 JUL 2021	100% DESIGN										
B	20 MAY 2021	90% DESIGN										
A	3/12/2021	60% REVIEW SET										

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APPROVED FOR:
 A. ROSENSTEIN CLIENT PROJECT MGR
 G. ANDERSEN TECHNICAL MGR
 D. BUTCHER PROJECT MGR

PROJECT PHASE: ISSUED FOR BID

PROJECT NO. _____ BY: _____ DDMMYY: _____ SUBJECT: _____

SCALE: AS SHOWN

DES	MAL	11NOV20
DRN	MJL	11NOV20
CHK	GRA	11NOV20
APP	PWM	11NOV20

PHASE II REPAIRS TO THE LAKE MANATEE DAM

SPOT REPAIR TEST SECTION

wood.
 1101 CHANNELSIDE DR.
 UNIT 200
 TAMPA, FL 33602
 (813) 289-0750

AREA: CA-5392
 CERTIFICATE OF AUTHORIZATION

CLIENT DWG NO. _____

DRAWING NO. CR403

REV E

ANSI C 224

8

7

6

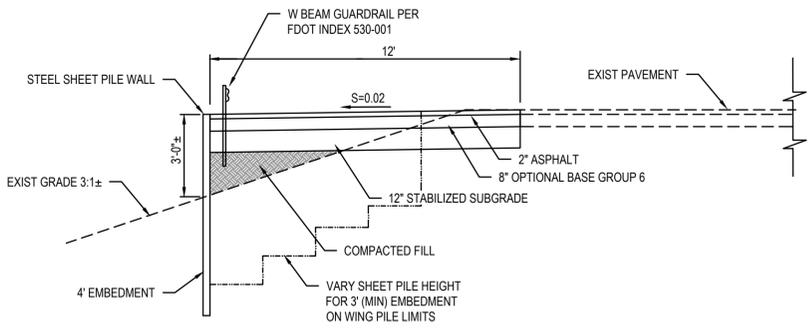
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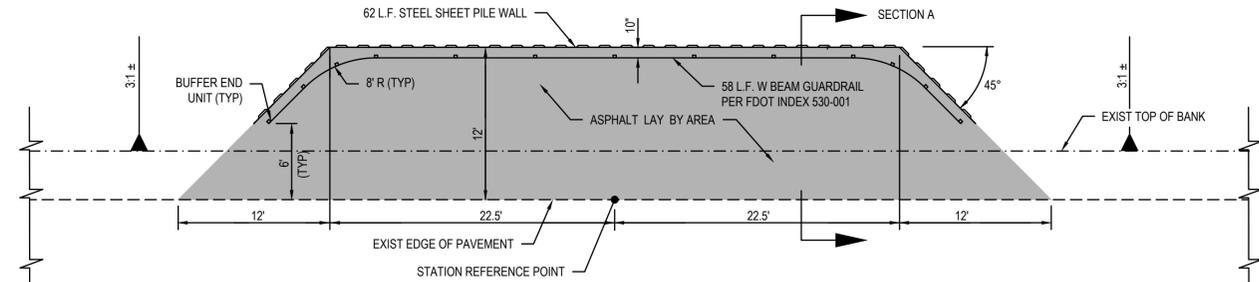
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2

1



SECTION A



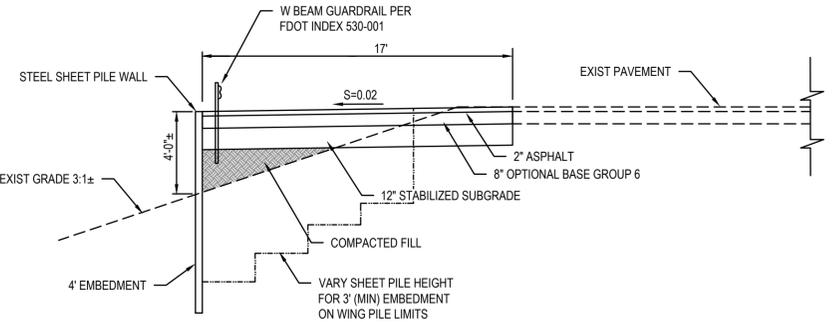
PLAN VIEW

TEMPORARY LAY BY DETAIL
N.T.S.

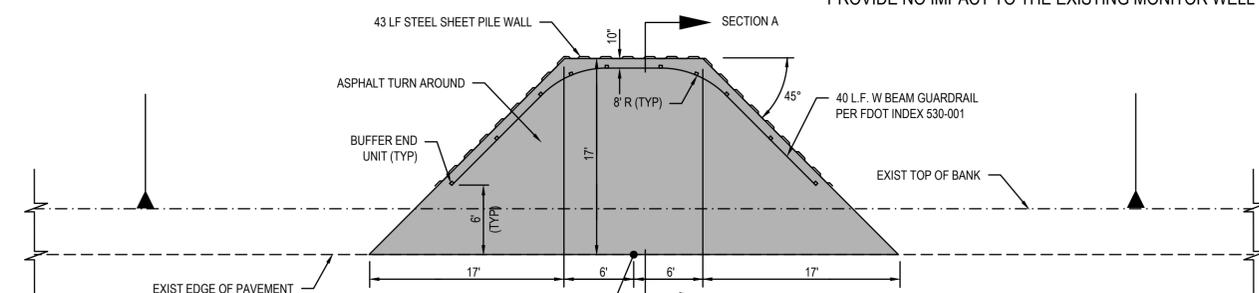
- LAY BY AND TURN AROUND CONSTRUCTION
1. THE STABILIZED SUBGRADE SHALL MEET THE SPECIFICATIONS AS DETAILED IN THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 160. THE SUBGRADE SHALL BE COMPACTED FOR A MINIMUM LBR OF 40. ONE TEST SHALL BE PERFORMED PER LOCATION.
 2. THE CONSTRUCTED BASE SHALL MEET THE SPECIFICATIONS AS DETAILED IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 285. THE BASE SHALL HAVE A MINIMUM LBR OF 100. ONE TEST SHALL BE PERFORMED PER LOCATION.
 3. ASPHALT SHALL BE A STANDARD FDOT STRUCTURAL COURSE, HAVE A SPREAD RATE OF 110 LBS/SY/INCH (MINIMUM) AND SHALL BE CONSTRUCTED TO THE DEPTH SHOWN ON THE DRAWINGS. ONE PAVEMENT CORE SHALL BE PROVIDED PER LOCATION. THE CONSTRUCTED ASPHALT SHALL MEET THE SPECIFICATIONS AS DETAILED IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 334.
 4. GUARDRAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARD INDEX 530-001 OF THE FDOY FY 2021-22 STANDARD PLANS FOR ROAD CONSTRUCTION AND AS SHOWN IN THE DRAWINGS. GUARDRAIL SHALL MEET THE SPECIFICATIONS AS DETAILED IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 536.

NOTES

1. TEMPORARY TURN AROUND AND LAYBY AREA TO BE PLACED AT STATIONS SHOWN. CONTRACTOR TO ADJUST LOCATIONS TO PROVIDE NO IMPACT TO THE EXISTING MONITOR WELL LOCATIONS



SECTION A



PLAN VIEW

TEMPORARY TURN AROUND DETAIL
N.T.S.



REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	APP	REF	NUMBER	TITLE
E	21SEP2021	NOTES AND SPECIFICATIONS ADDED											
D	09 JUL 2021	ISSUED FOR BID											
C	01 JUL 2021	100% DESIGN											
B	20 MAY 2021	90% DESIGN											
A	31/2/2021	60% REVIEW SET											

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APPROVED FOR

A. ROSENSTEIN
CLIENT PROJECT MGR

G. ANDERSEN
TECHNICAL MGR

D. BUTCHER
PROJECT MGR

PROJECT PHASE
ISSUED FOR BID

PROJECT NO.

SCALE
AS SHOWN

STAMP/SEAL
TIMOTHY J KELLY P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 44721.
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DES	MAL	DDMMYY	SUBJECT
DES	MAL	11NOV20	DETAILS
DRN	MJL	11NOV20	
CHK	GRA	11NOV20	
APP	PWM	11NOV20	
APP	PWM	11NOV20	

PHASE II REPAIRS TO THE LAKE MANATEE DAM

wood.
1101 CHANNELSIDE DR.
UNIT 200
TAMPA, FL 33602
(813) 289-0750

AREA: CERTIFICATE OF AUTHORIZATION
CA-5392

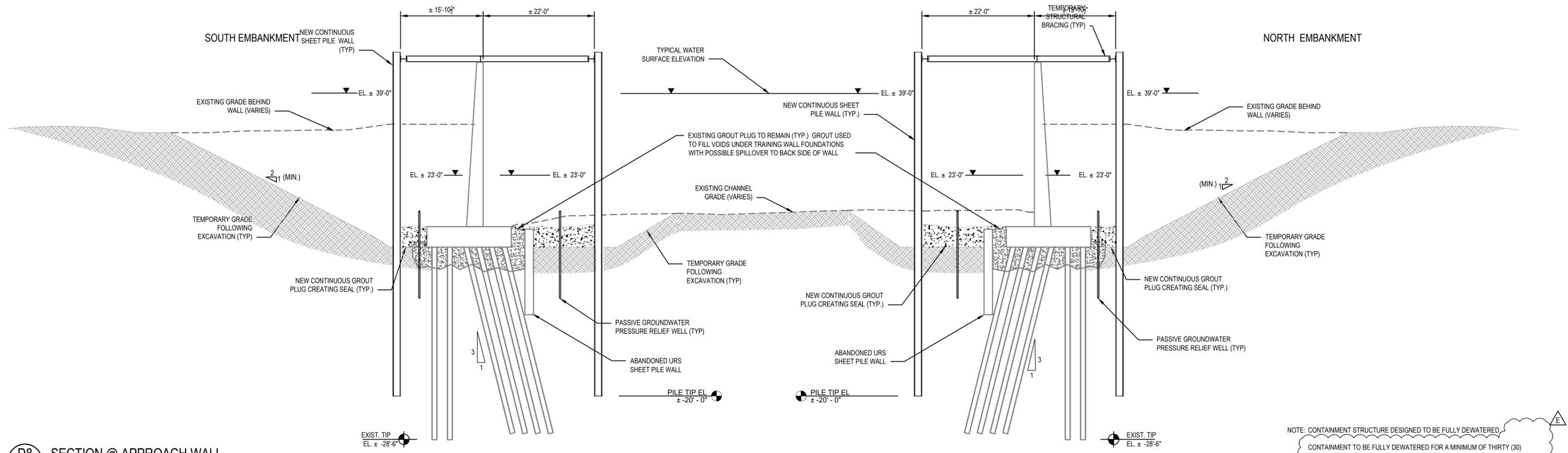
CLIENT DWG NO.

DRAWING NO.
CR501

REV
E



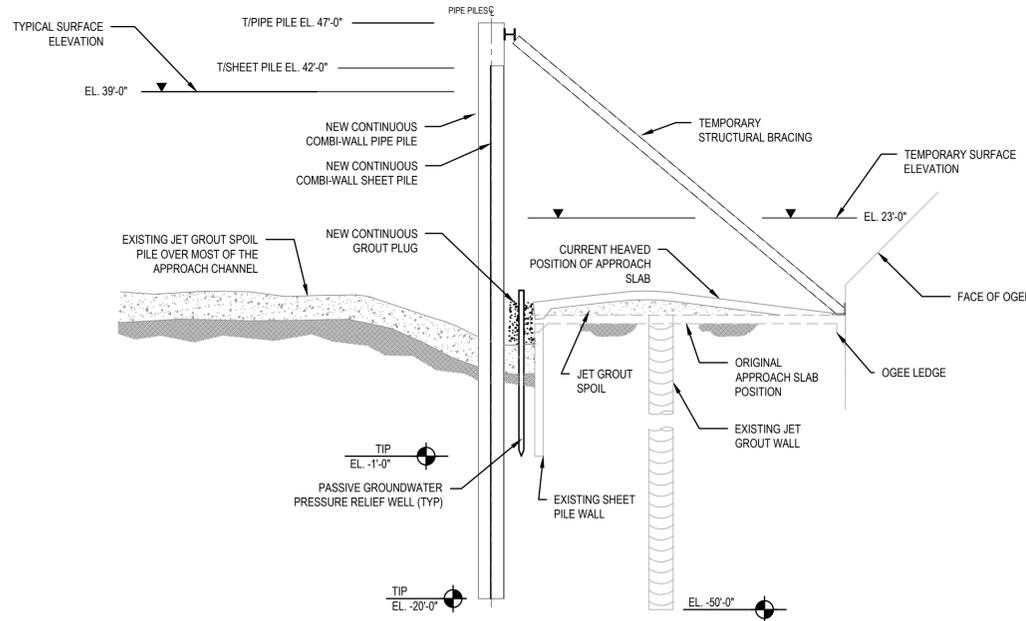
UPSTREAM SPILLWAY REPAIRS
STEP 5A - PARTIAL DEWATER WITHIN CONTAINMENT
APPROACH CHANNEL



D8 SECTION @ APPROACH WALL
CU104 SCALE: 3/32" = 1'-0"

NOTE: CONTAINMENT STRUCTURE DESIGNED TO BE FULLY DEWATERED.
CONTAINMENT TO BE FULLY DEWATERED FOR A MINIMUM OF THIRTY (30) CONSECUTIVE DAYS.

UPSTREAM SPILLWAY REPAIRS
STEP 5B - PARTIAL DEWATER WITHIN CONTAINMENT - APPROACH SLAB



A5 SECTION AT APPROACH SLAB
CU104 SCALE: 3/32" = 1'-0"

NOTE: CONTAINMENT STRUCTURE DESIGNED TO BE FULLY DEWATERED.
CONTAINMENT TO BE FULLY DEWATERED FOR A MINIMUM OF THIRTY (30) CONSECUTIVE DAYS.



REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REF	NUMBER	TITLE
E	16SEP2021	DEWATERING NOTE ADDED										
D	09 JUL 2021	ISSUED FOR BID										
C	01 JUL 2021	100% DESIGN										
B	20 MAY 2021	90% DESIGN										
A	3/12/2021	60% REVIEW SET										

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APPROVED FOR		
A. ROSENSTEIN CLIENT PROJECT MGR	G. ANDERSEN TECHNICAL MGR	D. BUTCHER PROJECT MGR
PROJECT PHASE		
ISSUED FOR BID		
PROJECT NO.	BY	DDMMYY
	DES MAL	11NOV20
SCALE	DRN MJL	11NOV20
AS SHOWN	CHK GRA	11NOV20
	APP PWM	11NOV20

PHASE II REPAIRS TO THE LAKE MANATEE DAM

STEP 5 - UPSTREAM SPILLWAY REPAIR - PARTIAL DEWATER WITHIN CONTAINMENT

wood.
1101 CHANNELSIDE DR.
UNIT 200
TAMPA, FL 33602
(813) 289-0750

AREA: CA-5392
CERTIFICATE OF AUTHORIZATION

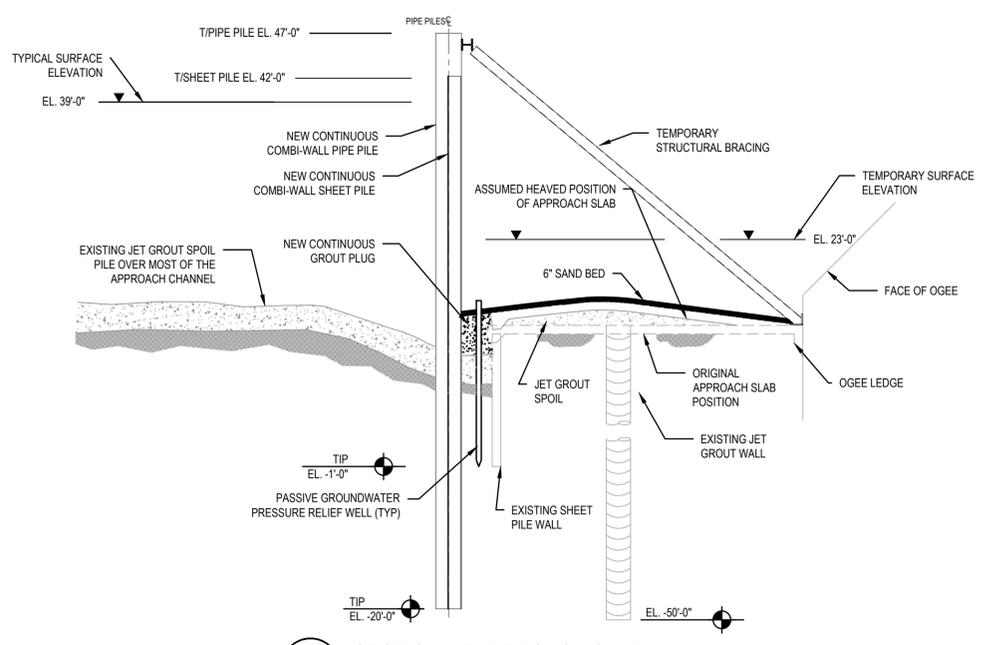
CLIENT DWG NO.

DRAWING NO. CU110

REV E

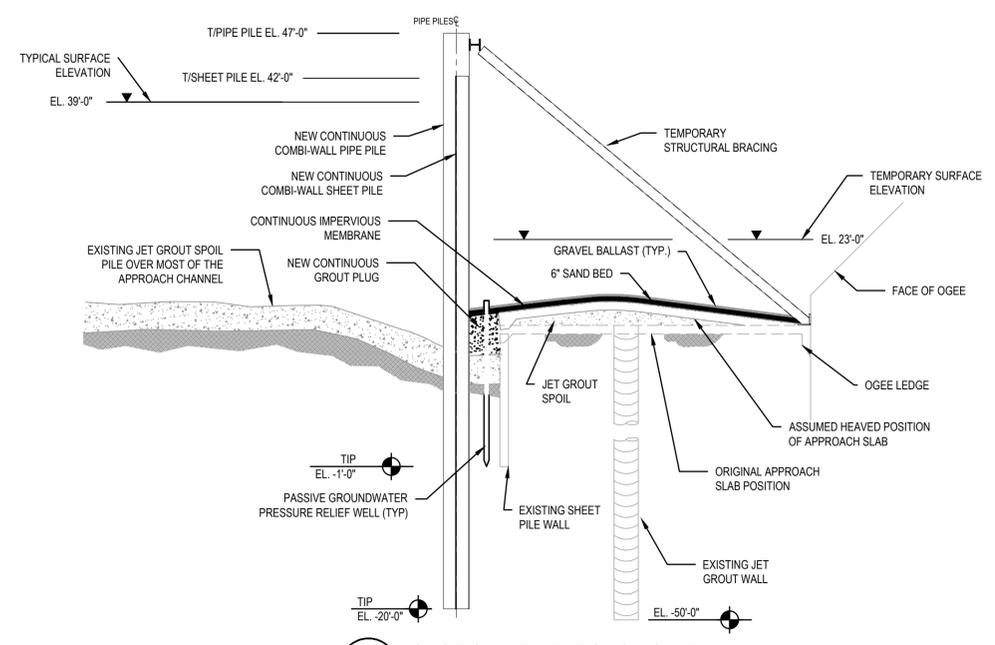


UPSTREAM SPILLWAY REPAIRS
STEP 6A - REPAIRS TO APPROACH SLAB INSTALL SAND BED



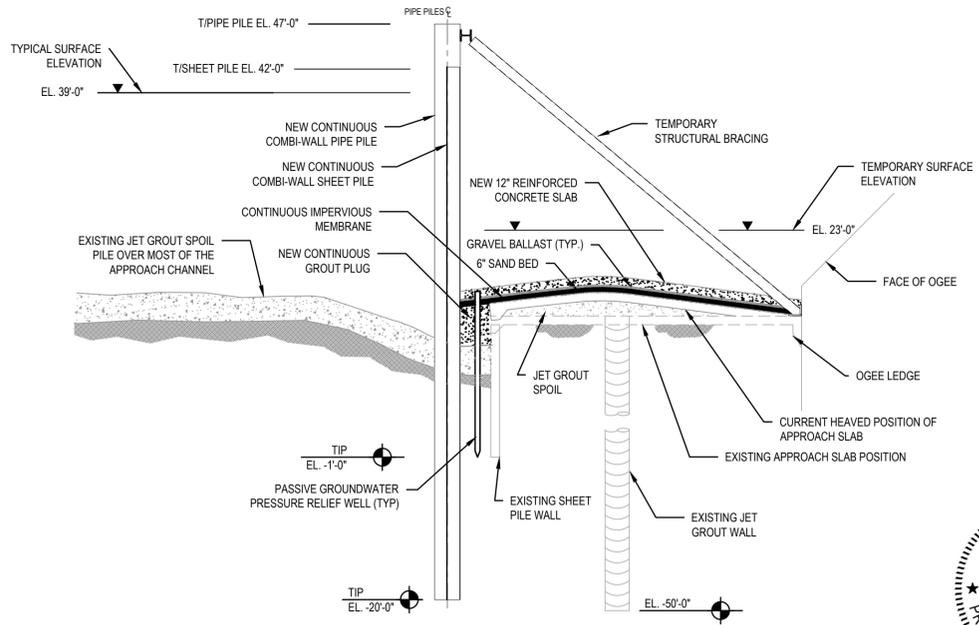
D8 SECTION AT APPROACH SLAB
CU104 SCALE: 3/32" = 1'-0"

UPSTREAM SPILLWAY REPAIRS
STEP 6B - REPAIRS TO APPROACH SLAB-INSTALL IMPERVIOUS MEMBRANE AND GRAVEL BALLAST



D4 SECTION AT APPROACH SLAB
CU104 SCALE: 3/32" = 1'-0"

UPSTREAM SPILLWAY REPAIRS
STEP 6C - REPAIRS TO APPROACH SLAB-TOPPING SLAB



A5 SECTION AT APPROACH SLAB
CU104 SCALE: 3/32" = 1'-0"



NOTE: CONTAINMENT STRUCTURE DESIGNED TO BE FULLY DEWATERED.
CONTAINMENT TO BE FULLY DEWATERED FOR A MINIMUM OF THIRTY (30) CONSECUTIVE DAYS

REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REF	NUMBER	TITLE
E	16SEP2021	DEWATERING NOTE ADDED										
D	09 JUL 2021	ISSUED FOR BID										
C	01 JUL 2021	100% DESIGN										
B	20 MAY 2021	90% DESIGN										
A	312/2021	60% REVIEW SET										

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APPROVED FOR
A. ROSENSTEIN CLIENT PROJECT MGR
G. ANDERSEN TECHNICAL MGR
D. BUTCHER PROJECT MGR

PROJECT PHASE
ISSUED FOR BID

PROJECT NO. [] BY [] DDMMYY [] SUBJECT []

SCALE AS SHOWN

STAMP/SEAL
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PHASE II REPAIRS TO THE LAKE MANATEE DAM		STEP 6 - UPSTREAM SPILLWAY REPAIRS - REPAIRS TO APPROACH SLAB	
AREA	CERTIFICATE OF AUTHORIZATION	CLIENT DWG NO.	DRAWING NO.
	CA-5392		CU111

wood.
1101 CHANNELSIDE DR.
UNIT 200
TAMPA, FL 33602
(813) 289-0750

AREA CERTIFICATE OF AUTHORIZATION
CA-5392

CLIENT DWG NO.

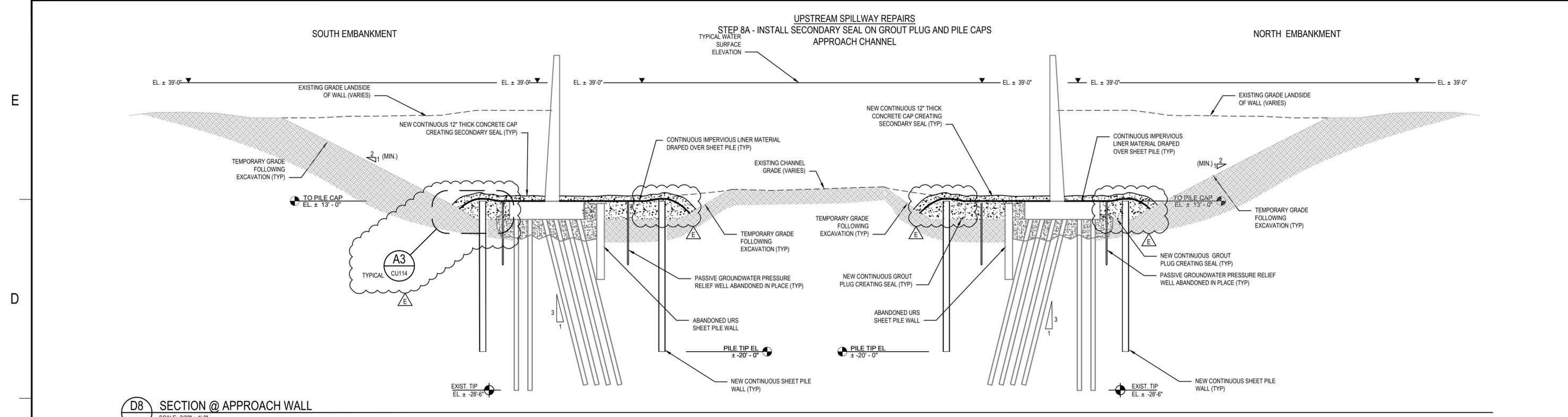
DRAWING NO.
CU111

REV
E

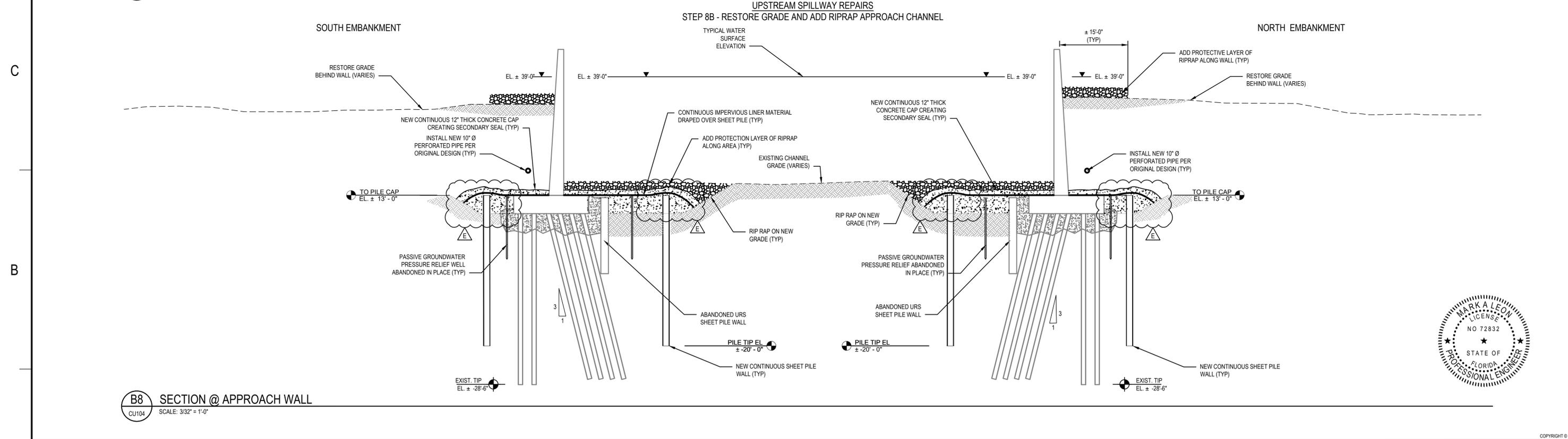
ANSI D 222.4

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CAD FILE: \\MGN-83\CAD\2021\07\24\LAKE MANATEE DAM\UPSTREAM SPILLWAY REPAIRS - REPAIRS TO APPROACH SLAB.DWG



D8 SECTION @ APPROACH WALL
 SCALE: 3/32" = 1'-0"



B8 SECTION @ APPROACH WALL
 SCALE: 3/32" = 1'-0"



REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REF	NUMBER	TITLE
E	10SEP2021	MODIFICATIONS TO SECONDARY SEAL										
D	09 JUL 2021	ISSUED FOR BID										
C	01 JUL 2021	100% DESIGN										
B	20 MAY 2021	90% DESIGN										
A	3/12/2021	60% REVIEW SET										

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APPROVED FOR: A. ROSENSTEIN (CLIENT PROJECT MGR), G. ANDERSEN (TECHNICAL MGR), D. BUTCHER (PROJECT MGR)

PROJECT PHASE: ISSUED FOR BID

PROJECT NO. [] BY [] DDMMYY [] SUBJECT []

SCALE: AS SHOWN

STAMP/SEAL: MARK A LEON P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 72832. THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK A LEON ON 15 SEP 2021, USING AN SHA AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

PHASE II REPAIRS TO THE LAKE MANATEE DAM		STEP 8 - UPSTREAM SPILLWAY REPAIRS INSTALL SECONDARY SEAL ON GROUT PLUG	
AREA	CERTIFICATE OF AUTHORIZATION CA-5392	CLIENT DWG NO.	
DRAWING NO.	CU113	REV	E

wood.
 1101 CHANNELSIDE DR.
 UNIT 200
 TAMPA, FL 33602
 (813) 289-0750

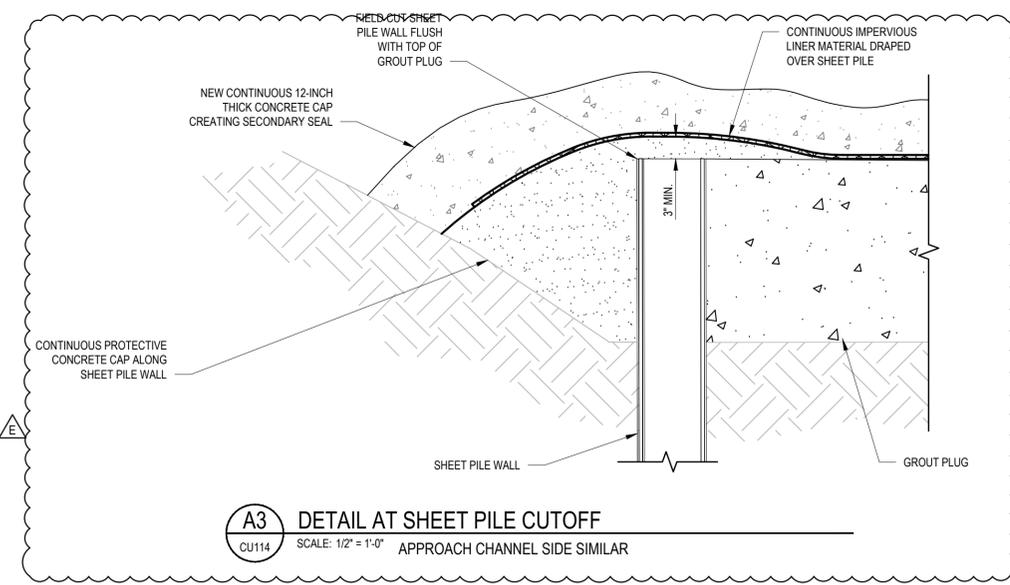
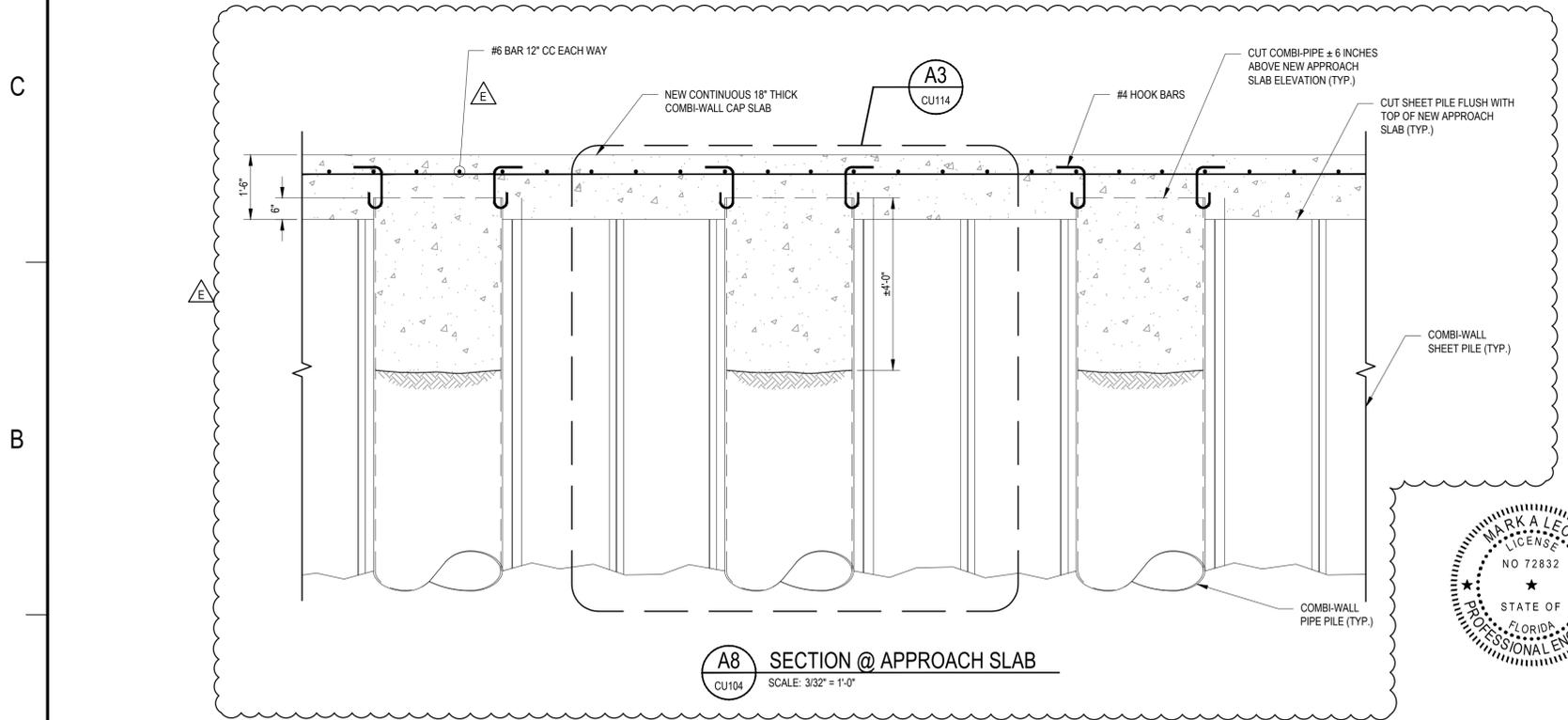
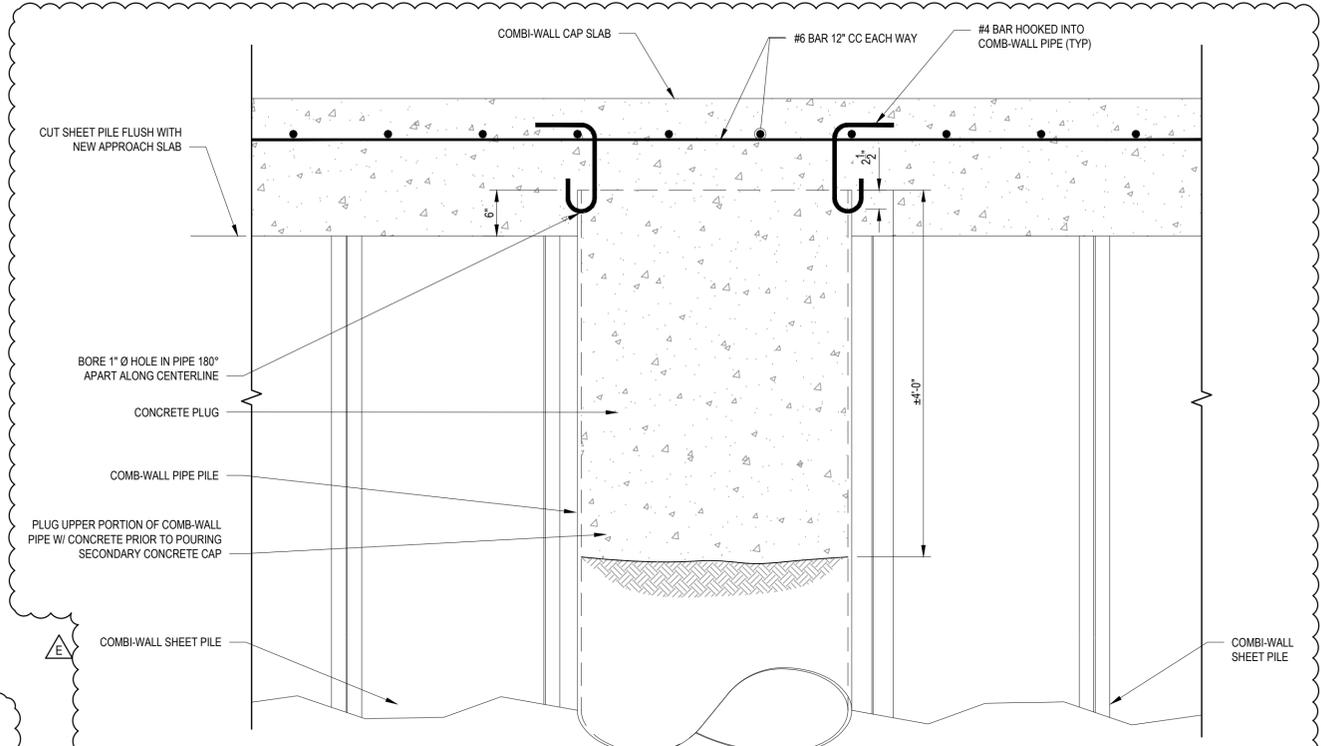
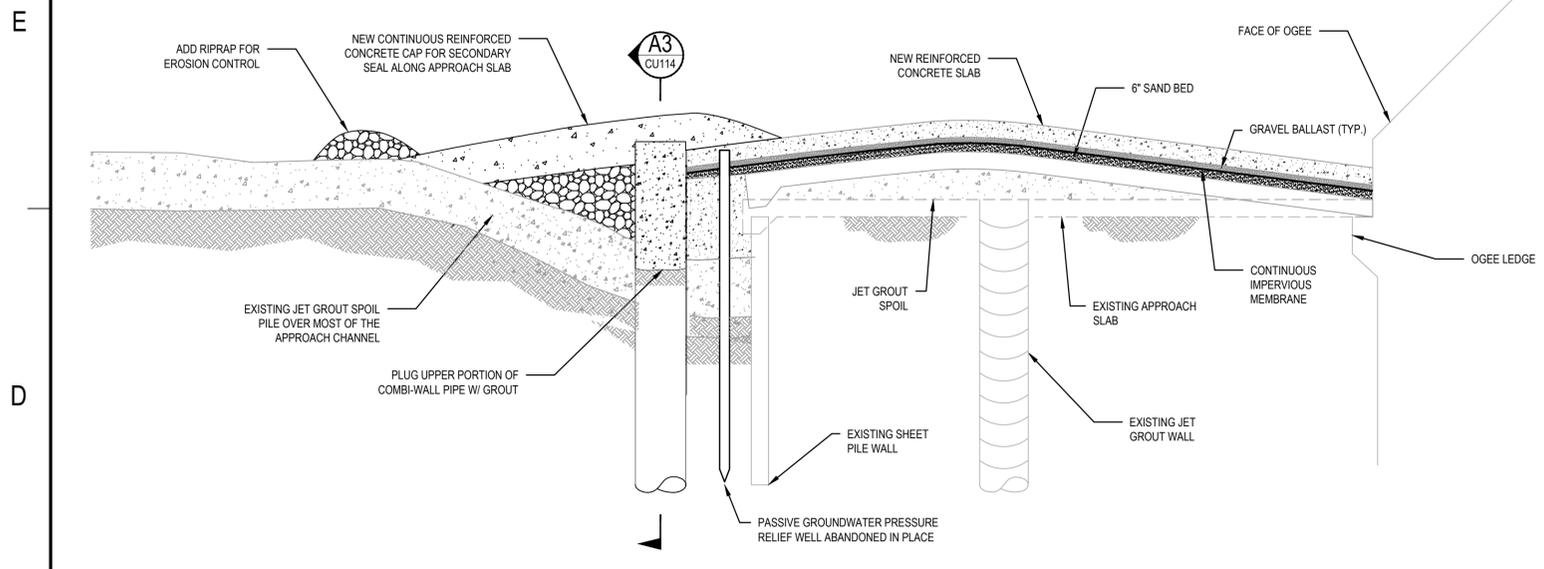
MARK A LEON
 LICENSE NO 72832
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

SAVED: 14-Sep-21 12:01 PM | PLOTTED: 15-Sep-21 9:31 AM | USER: LORENZ, MAX J



**UPSTREAM SPILLWAY REPAIRS
STEP 8C - PLUG COMBI-WALL PIPE, AND INSTALL CONCRETE CAP
ALONG APPROACH SLAB EDGE, AND ARMOR W/ RIPRAP**

- NOTES**
- CUT COMBI-WALL AS SHOWN WITH RESPECT TO TOP OF REPAIR SLAB.
 - BORE 1" Ø HOLES IN PIPE AND INSTALL HOOK BARS AS SHOWN
 - PLUG UPPER 4 FT. OF PIPE PILE WITH CONCRETE.
 - POUR CONTINUOUS 12" THICK REINFORCED CAPPING SLAB ALONG EDGE OF APPROACH SLAB.



REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	REF	NUMBER	TITLE
E	10SEP2021	SECONDARY SEAL AND DETAIL MODIFICATIONS																			
D	09 JUL 2021	ISSUED FOR BID																			
C	01 JUL 2021	100% DESIGN																			
B	20 MAY 2021	90% DESIGN																			
A	3/12/2021	60% REVIEW SET																			

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APPROVED FOR		A. ROSENSTEIN CLIENT PROJECT MGR		G. ANDERSEN TECHNICAL MGR		D. BUTCHER PROJECT MGR		
PROJECT PHASE		ISSUED FOR BID						
PROJECT NO.	BY	DDMMYY	SUBJECT					
AS SHOWN	DES	MAL	11NOV20	STEP 8 - UPSTREAM SPILLWAY REPAIRS PLUG TOP OF COMBI-WALL PIPE APPROACH				
SCALE	CHK	GRA	11NOV20	DRAWING NO.				
	APP	PWM	11NOV20	CU114				

**PHASE II REPAIRS TO THE
LAKE MANATEE DAM**

wood.
1101 CHANNELSIDE DR.
UNIT 200
TAMPA, FL 33602
(813) 289-0750

CERTIFICATE OF AUTHORIZATION
CA-5392

CLIENT DWG NO.

DRAWING NO.
CU114

REV
E

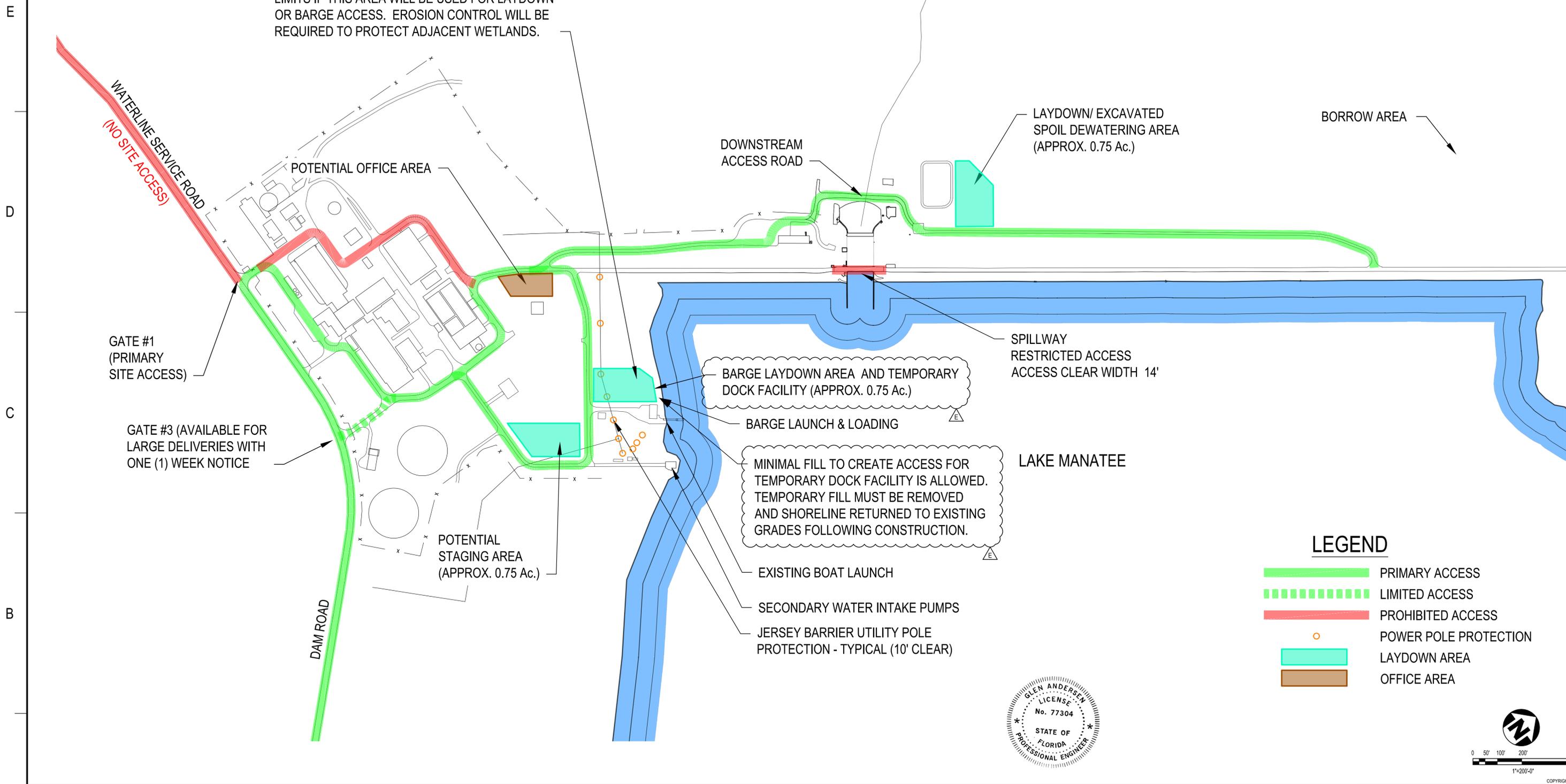
MSD 02/2024

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CADD FILE: \\S01-EST-CADD\2024\2412\LAKE MANATEE DAM\STRUCT\015 UPSTREAM SPILLWAY REPAIRS\PLUG TOP OF COMBI-WALL PIPE APPROACH.DWG

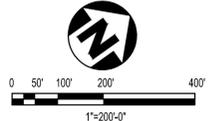


SHOWN USABLE AREA IS APPROXIMATE. NOTIFY ENGINEER TO DELINEATE ADJACENT WETLAND LIMITS IF THIS AREA WILL BE USED FOR LAYDOWN OR BARGE ACCESS. EROSION CONTROL WILL BE REQUIRED TO PROTECT ADJACENT WETLANDS.



LEGEND

- PRIMARY ACCESS
- LIMITED ACCESS
- PROHIBITED ACCESS
- POWER POLE PROTECTION
- LAYDOWN AREA
- OFFICE AREA



REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REF	NUMBER	TITLE
E	10SEP2021	TEMPORARY DOCK LOCATION										
D	09 JUL 2021	ISSUED FOR BID										
C	01 JUL 2021	100% DESIGN										
B	20 MAY 2021	90% DESIGN										
A	3/12/2021	60% REVIEW SET										

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APPROVED FOR _____		
A. ROSENSTEIN CLIENT PROJECT MGR	G. ANDERSEN TECHNICAL MGR	D. BUTCHER PROJECT MGR
PROJECT PHASE ISSUED FOR BID		
PROJECT NO.	BY	DDMMYY
	DES MAL	11NOV20
	DRN MJL	11NOV20
	CHK GRA	11NOV20
	APP PWM	11NOV20
SCALE AS SHOWN		

PHASE II REPAIRS TO THE LAKE MANATEE DAM

ON-SITE ACCESS PLAN

wood.
 1101 CHANNELSIDE DR.
 UNIT 200
 TAMPA, FL 33602
 (813) 289-0750

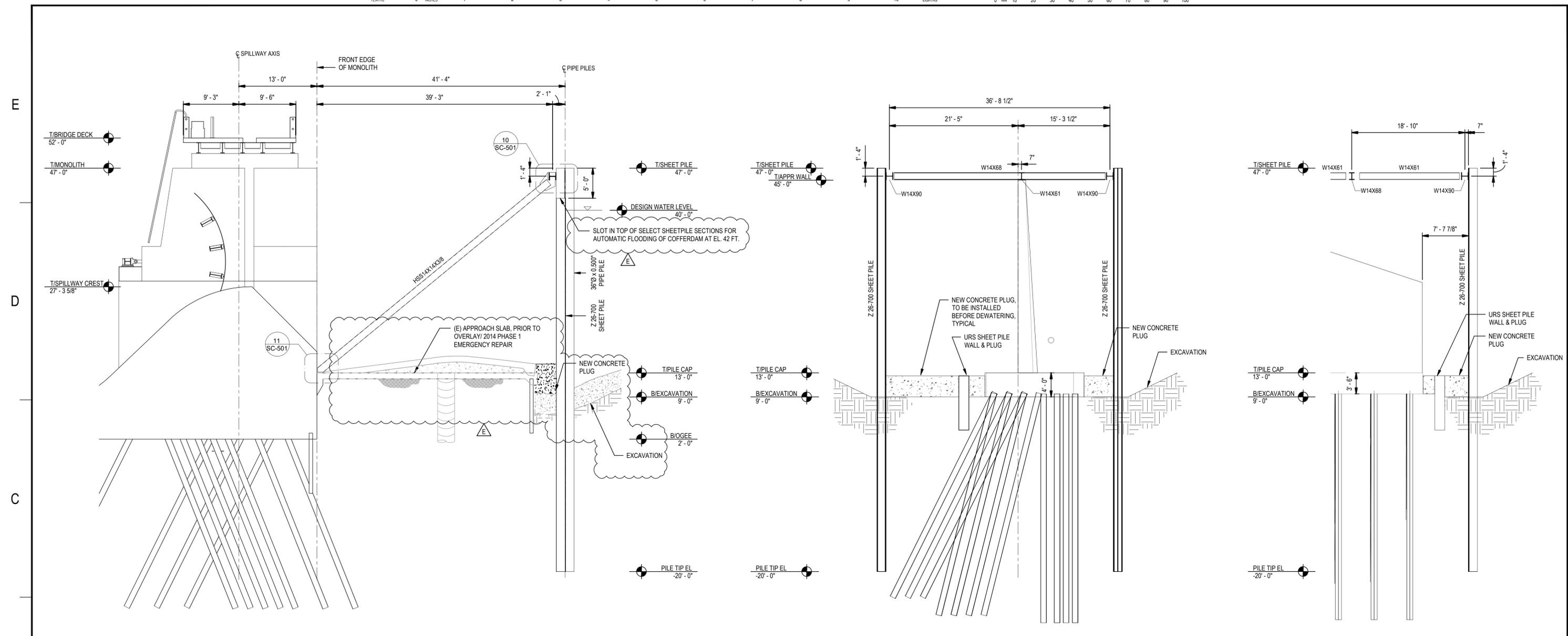
CERTIFICATE OF AUTHORIZATION
 CA-5392

CLIENT DWG NO.

DRAWING NO.
 G-004

REV
 E

SAVED: 14-Sep-21 3:57 PM PLOTTED: 15-Sep-21 9:08 AM USER: LORENZ, MAX J



SECTION A
1/8" = 1'-0"
SC-101

SECTION B
1/8" = 1'-0"
SC-101

SECTION C
1/8" = 1'-0"
SC-101



DRAWING NOTES:
1. REFERENCE DRAWING S-001 FOR GENERAL STRUCTURAL NOTES

REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REF	NUMBER	TITLE
E	14SEP2021	AUTOMATIC FLOODING CLARIFICATION										
D	09 JUL 2021	ISSUED FOR BID										
C	01 JUL 2021	100% DESIGN										
B	20 MAY 2021	90% DESIGN										
A	3/12/2021	60% REVIEW SET										

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A. ROSENSTEIN CLIENT PROJECT MGR	G. ANDERSEN TECHNICAL MGR	D. BUTCHER PROJECT MGR
PROJECT PHASE		
ISSUED FOR BID		
PROJECT NO.	BY	DDMMYY
	DES MAL	11NOV20
	DRN MJL	11NOV20
	CHK GRA	11NOV20
	APP PWM	11NOV20
SCALE	AS SHOWN	

PHASE II REPAIRS TO THE LAKE MANATEE DAM

COFFERDAM SECTIONS

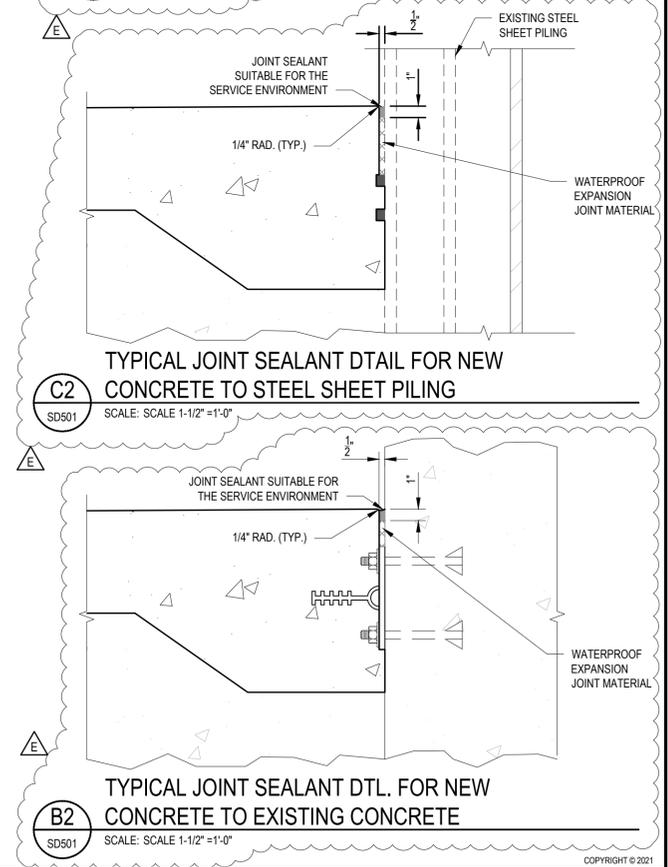
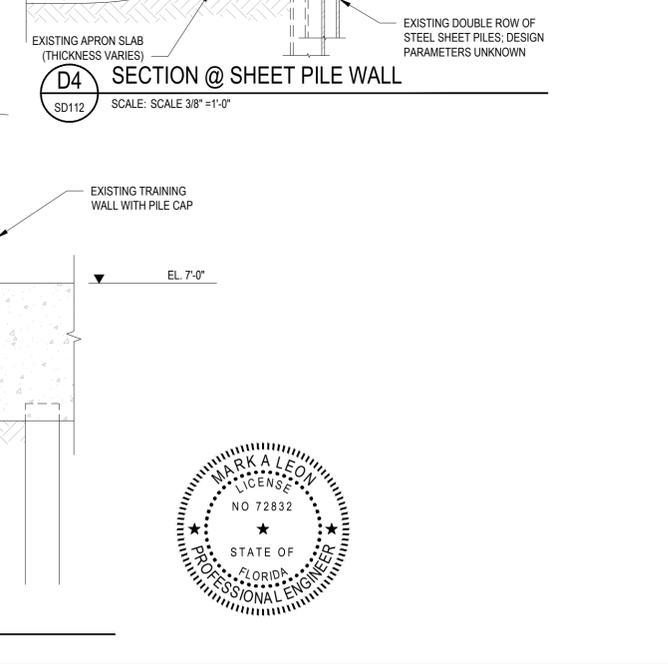
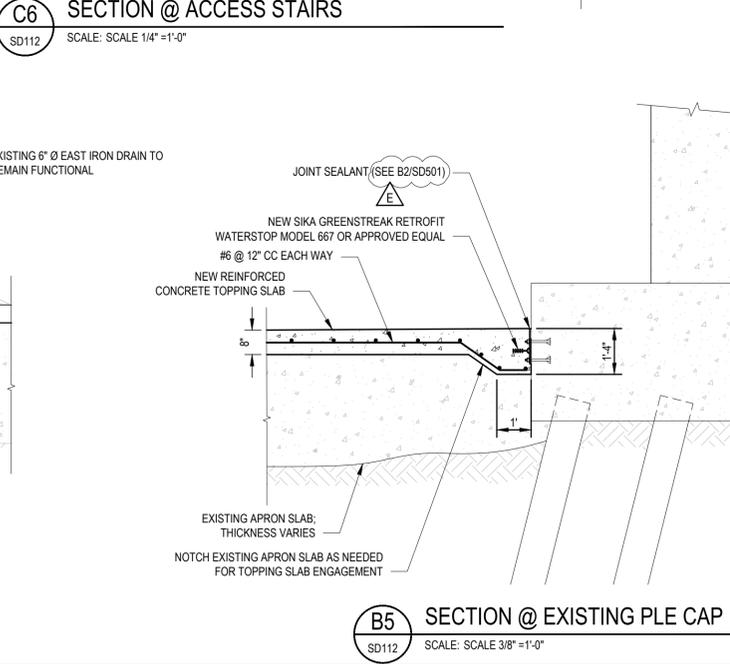
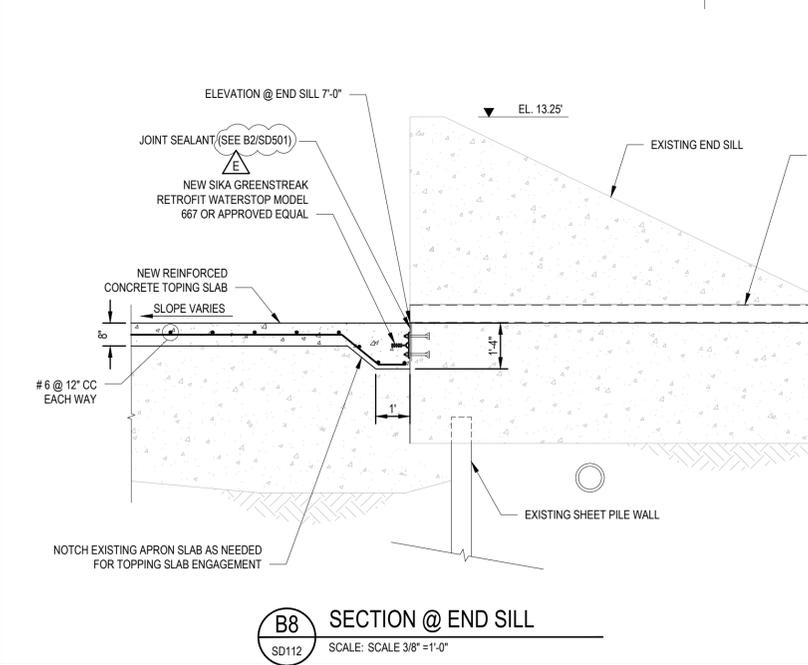
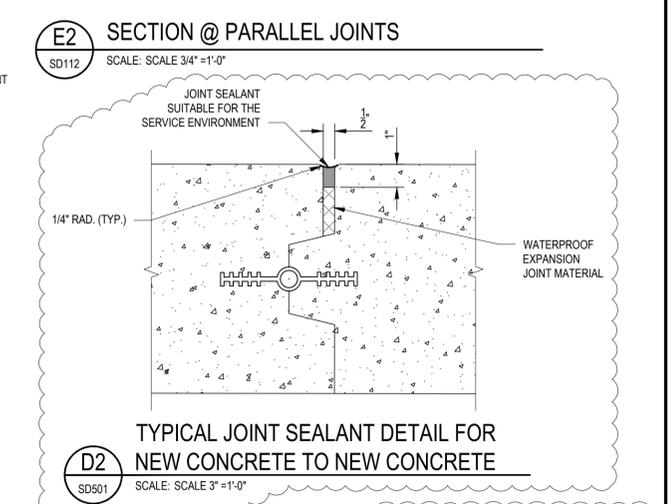
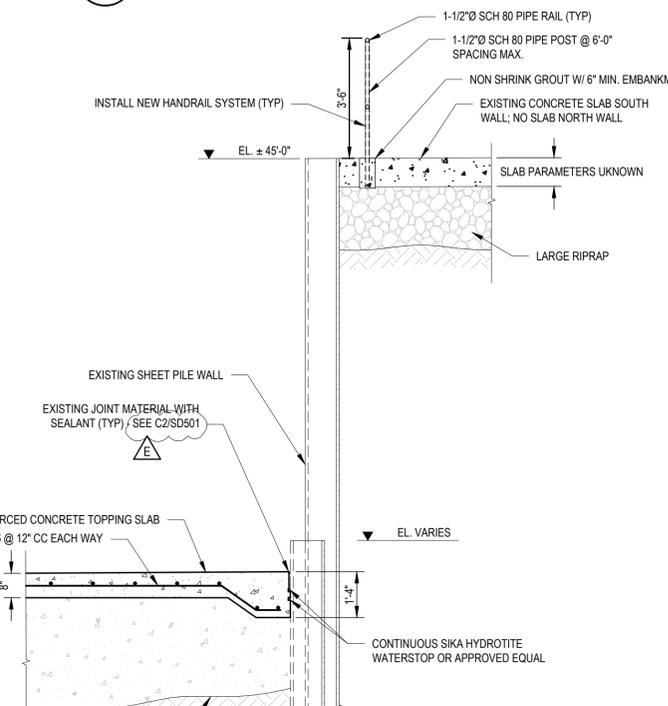
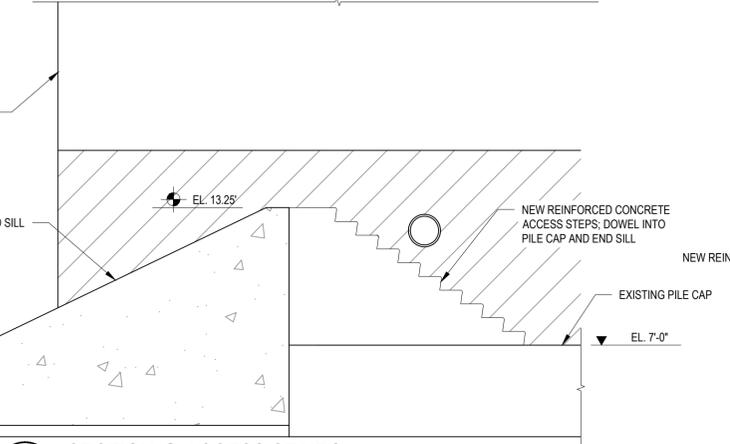
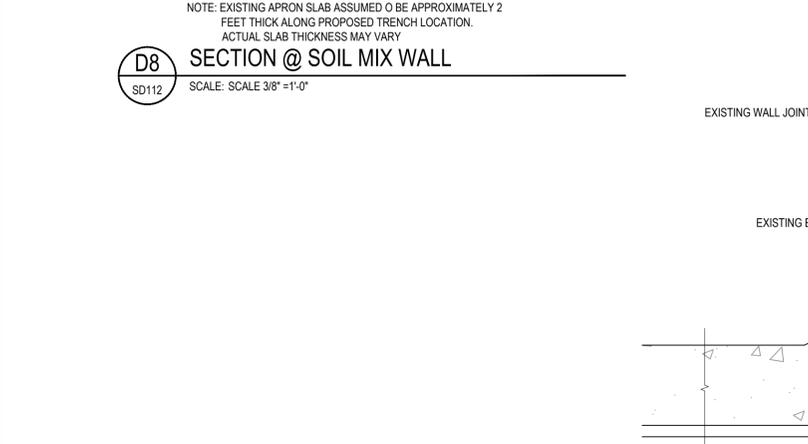
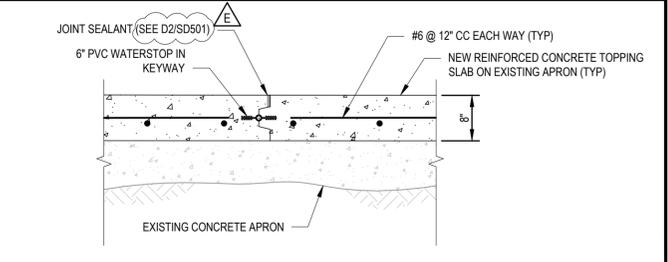
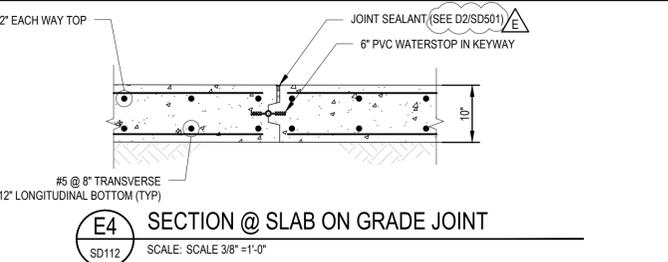
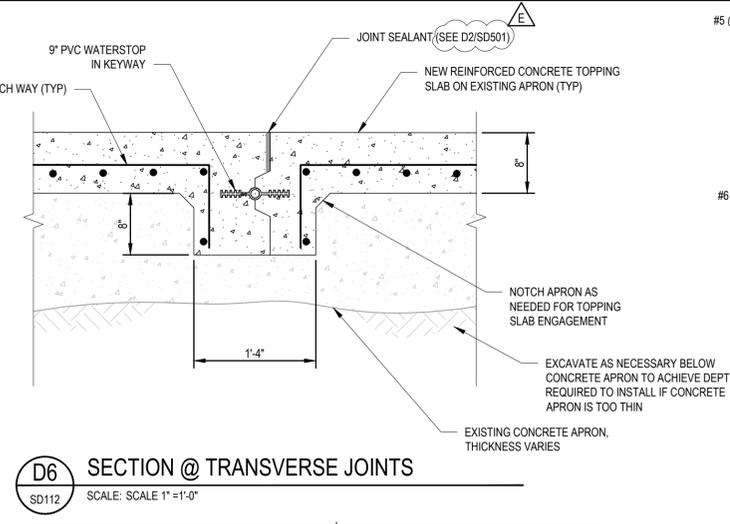
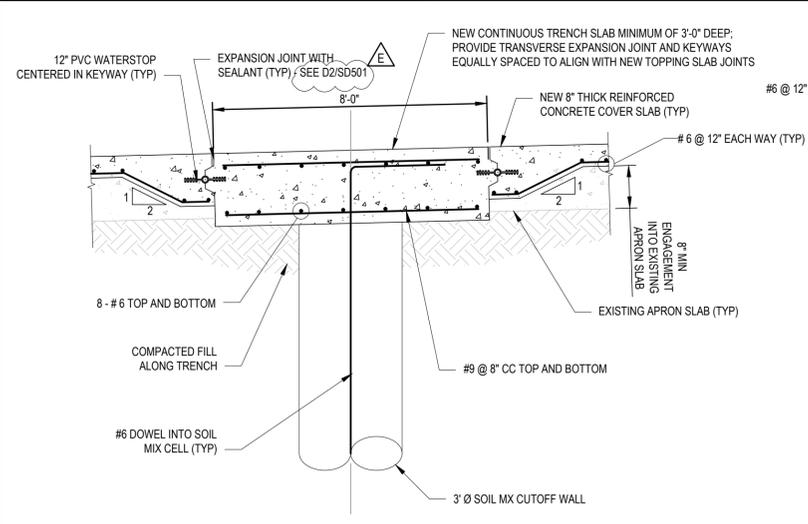
wood.
1101 CHANNELSIDE DR.
UNIT 200
TAMPA, FL 33602
(813) 289-0750

CERTIFICATE OF AUTHORIZATION
CA-5392

CLIENT DWG NO.

DRAWING NO.
SC301

REV
E



REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	REF	NUMBER	TITLE
B	05 SEP 2021	EXPANSION JOINT DETAILS																			
C	01 JUL 2021	100% DESIGN																			
B	20 MAY 2021	90% DESIGN																			
A	31/2/2021	60% REVIEW SET																			

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APPROVED FOR
A. ROSENSTEIN CLIENT PROJECT MGR
G. ANDERSEN TECHNICAL MGR
D. BUTCHER PROJECT MGR

PROJECT PHASE
ISSUED FOR BID

PROJECT NO.
BY: DES MAL 11NOV20
CHK: DRN MJL 11NOV20
APP: CHK GRA 11NOV20
APP: APP PWM 11NOV20

SCALE
AS SHOWN

STAMP/SEAL
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PHASE II REPAIRS TO THE LAKE MANATEE DAM		SUBJECT OUTFALL APRON SECTIONS AND DETAILS	
AREA	CERTIFICATE OF AUTHORIZATION CA-5392	CLIENT DWG NO.	
DRAWING NO. SD501		REV E	

wood.
1101 CHANNELSIDE DR.
UNIT 200
TAMPA, FL 33602
(813) 289-0750

AREA
CERTIFICATE OF AUTHORIZATION
CA-5392

CLIENT DWG NO.

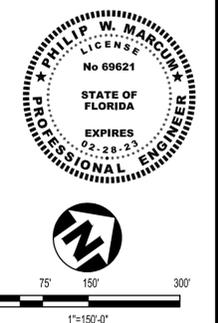
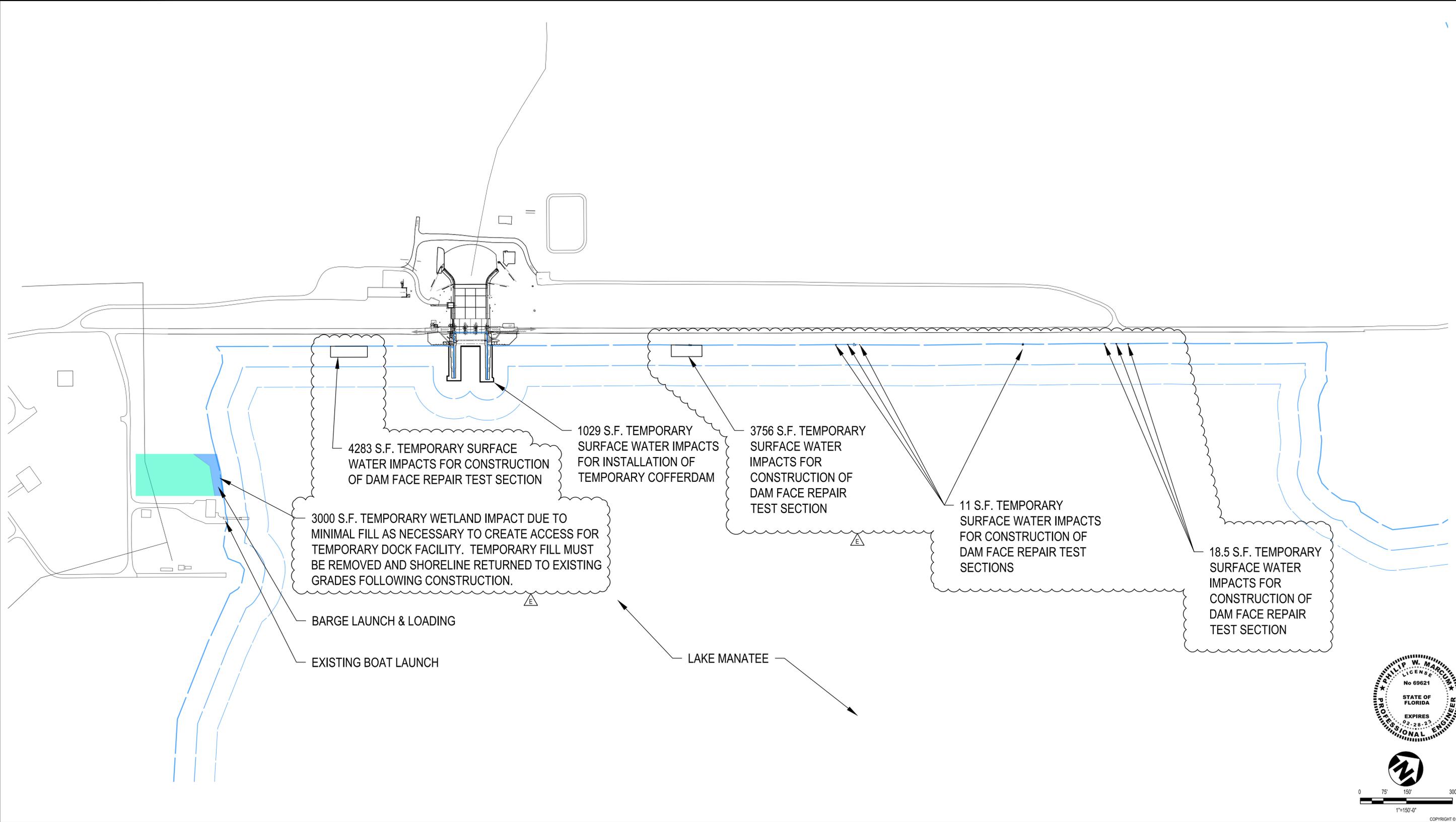
DRAWING NO.
SD501

REV
E

SAVED: 16-Sep-21 11:44 AM PLOTTED: 16-Sep-21 12:43 PM USER: LORENZ, MAX J



E
D
C
B
A



REV	DDMMYY	REVISION / ISSUE DESCRIPTION	DRN	CHK	APP	APP	APP	APP	APP	REF	NUMBER	TITLE
E	10SEP2021	ADDITIONAL SURFACE WATER IMPACTS										
D	09 JUL 2021	ISSUED FOR BID										
C	01 JUL 2021	100% DESIGN										
B	20 MAY 2021	90% DESIGN										
A	3/12/2021	60% REVIEW SET										

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APPROVED FOR		
A. ROSENSTEIN CLIENT PROJECT MGR	G. ANDERSEN TECHNICAL MGR	D. BUTCHER PROJECT MGR
PROJECT PHASE		
ISSUED FOR BID		
PROJECT NO.	BY	DDMMYY
	DES MAL	11NOV20
	DRN MJL	11NOV20
	CHK GRA	11NOV20
	APP PWM	11NOV20
SCALE	AS SHOWN	

PHASE II REPAIRS TO THE LAKE MANATEE DAM

SUBJECT

SURFACE WATER PLAN

wood.
 1101 CHANNELSIDE DR.
 UNIT 200
 TAMPA, FL 33602
 (813) 289-0750

CERTIFICATE OF AUTHORIZATION
 CA-5392

CLIENT DWG NO.

DRAWING NO.
 C-001

REV
 E

14SEP2024