

**CONTRACT PLANS COMPONENTS**

ROADWAY PLANS  
SIGNING AND PAVEMENT MARKING PLANS  
SIGNALIZATION PLANS

**INDEX OF ROADWAY PLANS**

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
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26 - 27	TEMPORARY TRAFFIC CONTROL PLANS
28 - 30	DETOURS
CTL-1 - CTL-2	PROJECT NETWORK CONTROL

DEVELOPMENTAL STANDARD PLANS:

**BEGIN BRIDGE #770087**  
STA. 2955+13.81

**BEGIN BRIDGE #770085**  
STA. 2875+60.99

**BEGIN PROJECT**  
STA. 2875+33.15  
MP 12.355

**GOVERNING STANDARD PLANS:**

Florida Department of Transportation, FY 2018-19 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: N/A

Standard Plans for Bridge Construction are included in the Structures Plans Component

**GOVERNING STANDARD SPECIFICATIONS:**

Florida Department of Transportation, July 2018 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

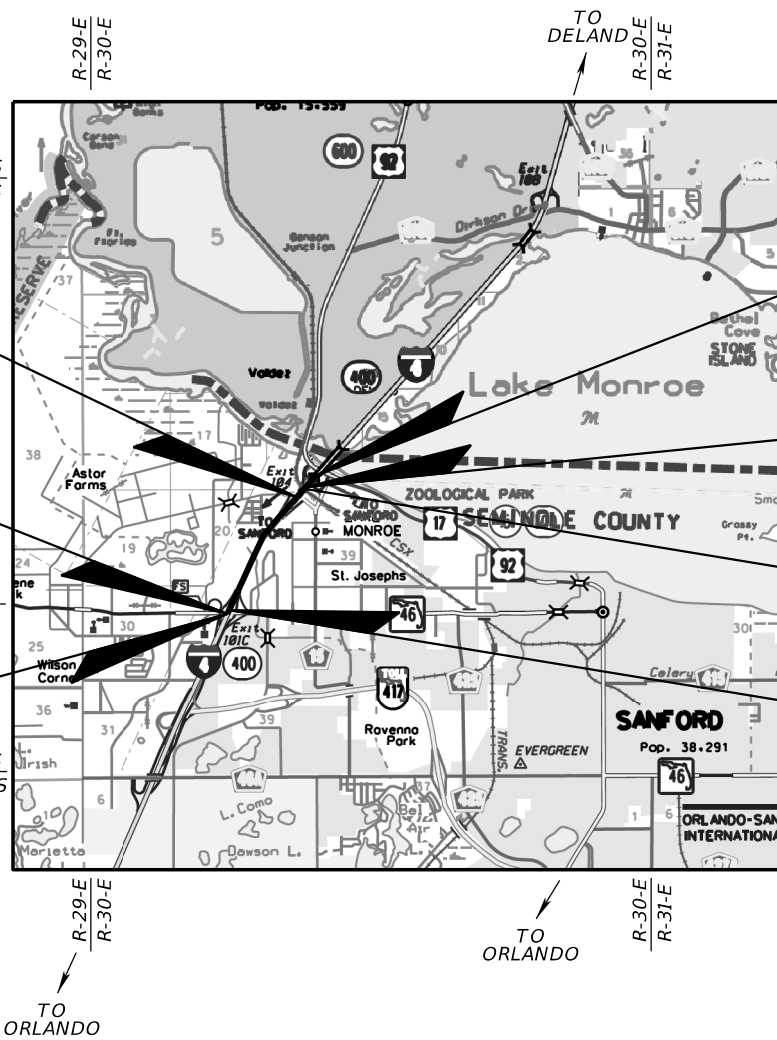
STATE OF FLORIDA  
**DEPARTMENT OF TRANSPORTATION**

**CONTRACT PLANS**

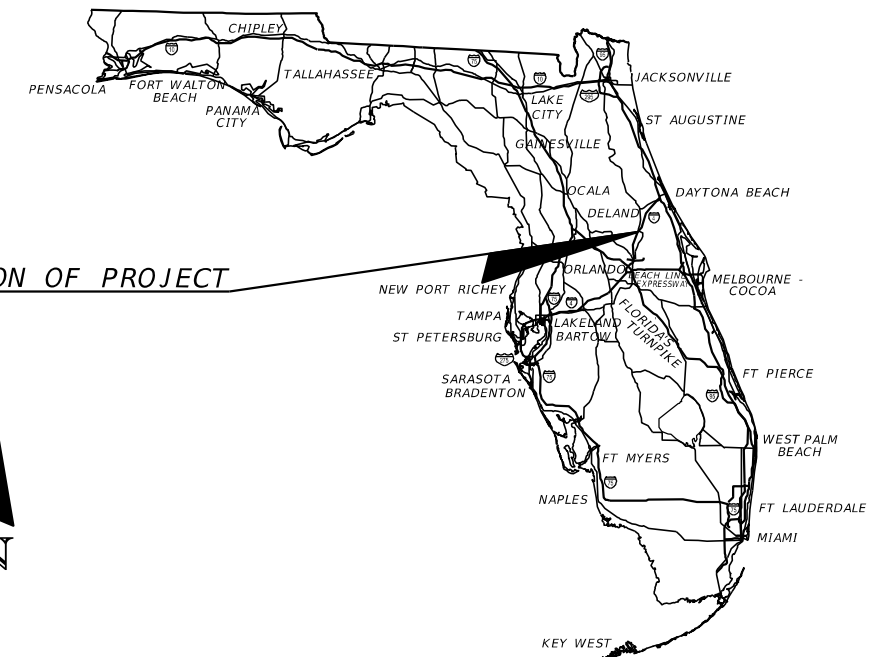
FINANCIAL PROJECT ID 439682-5-52-01

SEMINOLE COUNTY (77160)

STATE ROAD NO. 400 (I-4)  
RESURFACING, FROM SR 46 (MP 12.355)  
TO THE ST. JOHN'S RIVER BRIDGE (MP 14.135) (EB ONLY)



**LOCATION OF PROJECT**



**END PROJECT**  
STA. 2970+48.94  
MP 14.135

**END BRIDGE #770087**  
STA. 2957+63.34

**CFRC CROSSING**  
NO. 621327-M  
RR MP A-763.68

**END BRIDGE #770085**  
STA. 2877+66.65

**ROADWAY PLANS**

**ENGINEER OF RECORD:**

NATHAN BALO, P.E.  
P.E. NO.: 70824  
HORIZON ENGINEERING GROUP, INC.  
2603 Maitland Center Pkwy., Suite B  
Maitland, FL 32751  
Phone: 407-644-7755  
FAX: 407-644-7855  
Contract No.: C9U03  
Vendor No.: 43-1994849  
Certificate of Authorization No.: 00009544

**FDOT PROJECT MANAGER:**

HATEM AGUIB, P.E.

**INITIAL PLANS**  
**7/16/2018**

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	19	1

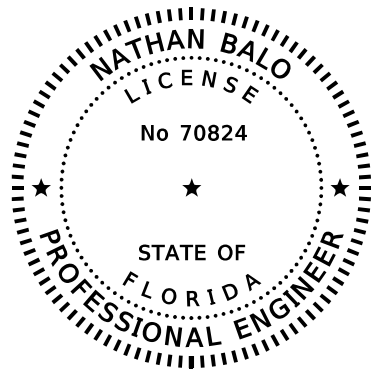
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NOTES TO REVIEWER

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- UTILITY SIZE, TYPE, KV VALUE AND DISPOSITION OF UTILITY COMPANIES FACILITIES WILL BE GATHERED AS PART OF THE FUTURE UTILITY COORDINATION EFFORTS.

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NOTES TO REVIEWER	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	SEMINOLE	439682-5-52-01		1A



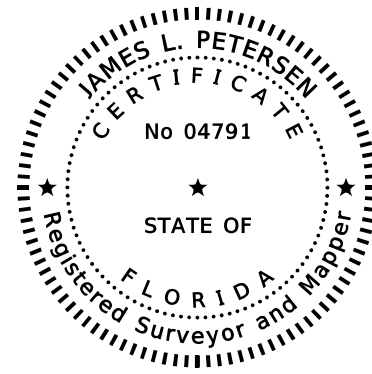
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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HORIZON ENGINEERING GROUP, INC. .  
2603 MAITLAND CENTER PKWY., SUITE B  
MAITLAND, FL 32751  
CERTIFICATE OF AUTHORIZATION 00009544  
NATHAN BALO, P.E. NO. 70824

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3 - 4	SUMMARY OF PAY ITEMS
5 - 7	TYPICAL SECTIONS
8	TYPICAL SECTION DETAILS
9	GENERAL NOTES
10 - 25	ROADWAY PLANS
26 - 27	TEMPORARY TRAFFIC CONTROL PLANS
28 - 30	DETOURS



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JAMES L. PETERSEN, P.S.M.  
P.S.M. LICENSE NUMBER 4791  
SOUTHEASTERN SURVEYING AND MAPPING CORPORATION  
6500 ALL AMERICAN BOULEVARD  
ORLANDO, FL 32810  
CERTIFICATE OF AUTHORIZATION 00002108

THE ABOVE NAMED PROFESSIONAL SURVEYOR AND MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.062, F.A.C.

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
CTL-1 - CTL-2	PROJECT NETWORK CONTROL

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	SEMINOLE	439682-5-52-01	

*SIGNATURE SHEET*

FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 439682-5-52-01						
LEAD PROJECT : 439682-5-52-01		DISTRICT : 05		COUNTY/SECTION : 77160000		
PROJECT(S) : 43968255201		COUNTY : SEMINOLE				
0200 SUMMARY OF ROADWAY						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43968255201	QUANTITY TOTAL
		0101- 1-	MOBILIZATION 43968255201	LS	1.000	1.000
		0102- 1-	MAINTENANCE OF TRAFFIC 43968255201	(LS)	1.000	1.000
		0102- 14-	TRAFFIC CONTROL OFFICER	HR	1.000	1.000
		0102- 60-	WORK ZONE SIGN	ED	1.000	1.000
		0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	1.000	1.000
		0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	1.000	1.000
		0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	1.000	1.000
		0102-150- 1	PORTABLE REGULATORY, SIGN	ED	1.000	1.000
		0102-150- 2	RADAR SPEED DISPLAY UNIT	ED	1.000	1.000
		0104- 10- 3	SEDIMENT BARRIER	LF	1.000	1.000
		0104- 18-	INLET PROTECTION SYSTEM	EA	1.000	1.000
		0107- 1-	LITTER REMOVAL	AC	1.000 N	1.000
		0107- 2-	MOWING	AC	1.000 N	1.000
		0110- 1- 1	CLEARING & GRUBBING 43968255201	(LS)	1.000	1.000
		0327- 70- 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	SY	1.000	1.000
		0327- 70- 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY	1.000	1.000
		0327- 70- 11	MILLING EXIST ASPH PAVT, 2 1/4" AVG DEPTH	SY	1.000	1.000
		0327- 70- 15	MILLING EXIST ASPH PAVT, 2 3/4" AVG DEPTH	SY	1.000	1.000
		0327- 70- 17	MILLING EXIST ASPH PAVT, 3 1/4" AVG DEPTH	SY	1.000	1.000
		0327- 70- 19	MILLING EXIST ASPH PAVT, 3/4" AVG DEPTH	SY	1.000	1.000
		0327- 70- 20	MILLING EXIST ASPH PAVT, 3 3/4" AVG DEPTH	SY	1.000	1.000
		0334- 1- 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22	TN	1.000	1.000
		0334- 1- 54	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC D, PG76-22	TN	1.000	1.000
		0337- 7- 25	ASPHALT CONCRETE FRICTION COURSE, INC BIT, FC-5, PG 76-22	TN	1.000	1.000
		0337- 7- 83	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	1.000	1.000
		0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	TN	1.000	1.000
		0520- 6-	SHOULDER GUTTER- CONCRETE	LF	1.000	1.000
		0536- 1- 1	GUARDRAIL -ROADWAY, GENERAL TL-3	LF	1.000	1.000
		0536- 8- 11	APPROACH TRANSITION TO RIGID BARRIER CONNECTION, FURNISH & INSTALL	EA	1.000	1.000
		0536- 73-	GUARDRAIL REMOVAL	LF	1.000	1.000
		0536- 85- 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	1.000	1.000
		0546- 72- 1	GROUND-IN RUMBLE STRIPS, 16"	GM	1.000	1.000
		0550- 10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	LF	1.000	1.000
		0570- 1- 2	PERFORMANCE TURF, SOD	SY	1.000	1.000
		0571- 1- 11	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 1	SY	1.000	1.000
		0710- 11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	1.000	1.000
		0710- 11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	1.000	1.000
		0710- 11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	1.000	1.000

FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 439682-5-52-01						
LEAD PROJECT : 439682-5-52-01		DISTRICT : 05		COUNTY/SECTION : 77160000		
PROJECT(S) : 43968255201		COUNTY : SEMINOLE				
0200 SUMMARY OF ROADWAY						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43968255201	QUANTITY TOTAL
		0710- 11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	1.000	1.000
		0710- 11-133	PAINTED PAVEMENT MARKING, STANDARD,WHITE, 3'-9' SKIP DROP LINE AND APPROACH TO TOLL PLAZA, 12" WIDE,	GM	1.000	1.000
		0710- 11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	1.000	1.000

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>SR 400</td> <td>SEMINOLE</td> <td>439682-5-52-01</td> </tr> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	SEMINOLE	439682-5-52-01	SHEET NO. 3
REVISIONS																								
DATE	DESCRIPTION	DATE	DESCRIPTION																					
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																						
SR 400	SEMINOLE	439682-5-52-01																						

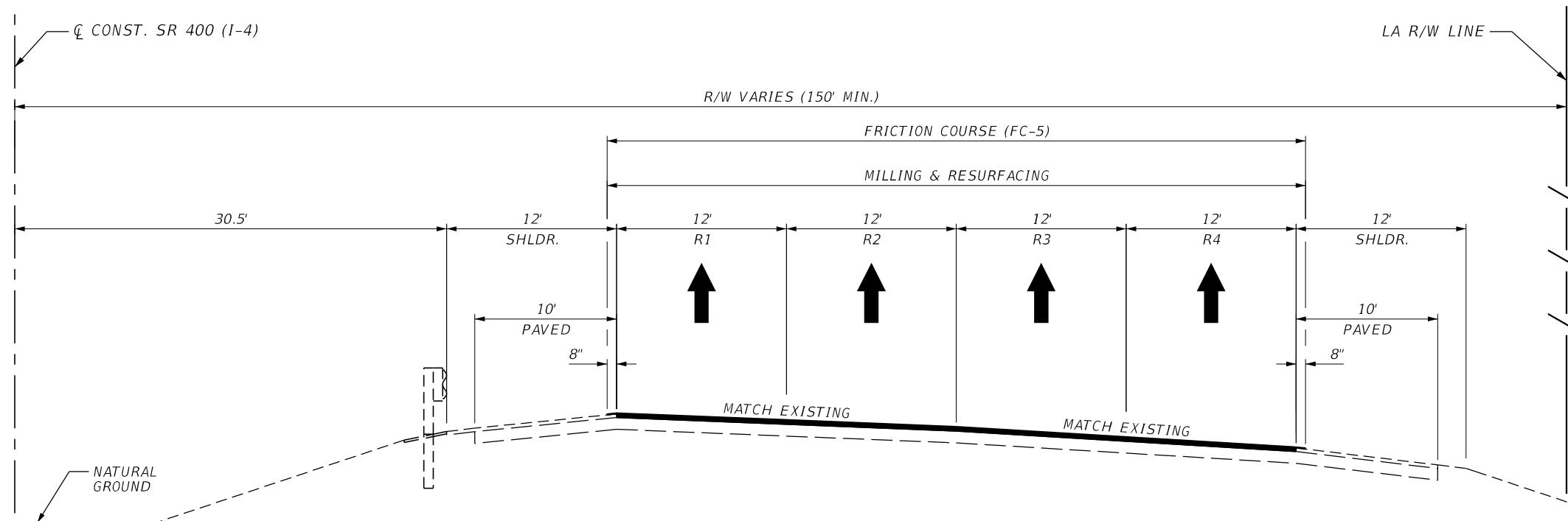
**SUMMARY OF PAY ITEMS**

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FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 439682-5-52-01						
LEAD PROJECT : 439682-5-52-01		DISTRICT : 05		COUNTY/SECTION : 77160000		
PROJECT(S) : 43968255201		COUNTY : SEMINOLE				
0300 SUMMARY OF SIGNING						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43968255201	QUANTITY TOTAL
		0700- 1- 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	1.000	1.000
		0700- 1- 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	1.000	1.000
		0700- 1- 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	1.000	1.000
		0700- 1- 50	SINGLE POST SIGN, RELOCATE	AS	1.000	1.000
		0700- 1- 60	SINGLE POST SIGN, REMOVE	AS	1.000	1.000
		0700- 2- 14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS	1.000	1.000
		0700- 2- 16	MULTI- POST SIGN, F&I GROUND MOUNT, 101-200 SF	AS	1.000	1.000
		0700- 2- 17	MULTI- POST SIGN, F&I GROUND MOUNT, 201-300 SF	AS	1.000	1.000
		0700- 2- 60	MULTI- POST SIGN, REMOVE	AS	1.000	1.000
		0710- 90-	PAINTED PAVEMENT MARKINGS, FINAL SURFACE 43968255201	LS	1.000	1.000
		0711- 11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	1.000	1.000
		0711- 11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	1.000	1.000
		0711- 11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	1.000	1.000
		0711- 11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	1.000	1.000
		0711- 11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	1.000	1.000
		0711- 15-101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM	1.000	1.000
		0711- 15-131	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	1.000	1.000
		0711- 15-133	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE, SKIP, 12"- APPROACH TO TOLL PLAZA OR 3-9 LANE DROP	GM	1.000	1.000
		0711- 15-201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM	1.000	1.000
		0711- 16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	1.000	1.000
		0711- 16-131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	1.000	1.000
		0711- 16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1.000	1.000
M		0711- 17-	THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS: NON-CONFLICTING ONLY	SF	1.000	1.000
		0713-103-101	PERMANENT TAPE, WHITE, SOLID, 6" FOR CONCRETE BRIDGES	GM	1.000	1.000
		0713-103-131	PERMANENT TAPE, WHITE, SKIP/DOTTED, 6" FOR CONCRETE SURFACES	GM	1.000	1.000
		0713-103-201	PERMANENT TAPE, YELLOW, SOLID, 6" FOR CONCRETE BRIDGES	GM	1.000	1.000
		0713-103-331	PERMANENT TAPE, BLACK, SKIP/DOTTED, 6" FOR CONCRETE SURFACES	GM	1.000	1.000

FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 439682-5-52-01						
LEAD PROJECT : 439682-5-52-01		DISTRICT : 05		COUNTY/SECTION : 77160000		
PROJECT(S) : 43968255201		COUNTY : SEMINOLE				
0500 SUMMARY OF SIGNALIZATION						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43968255201	QUANTITY TOTAL
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	1.000	1.000
		0635- 2- 11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	1.000	1.000
		0660- 2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	1.000	1.000
P		0670- 5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1.000	1.000
		0695- 1- 1	TRAFFIC MONITORING SITE VEHICLE SENSOR-NON-WEIGHT, FURNISH & INSTALL	EA	1.000	1.000
		0695- 6- 12	TRAFFIC MONITORING SITE INDUCTIVE LOOP ASSEMBLY, FURNISH & INSTALL, 2 LOOPS	EA	1.000	1.000
		0695- 7-162	TRAFFIC MONITORING SITE CABINET, F&I, TYPE 3, 2 PANE BACK, PEDESTAL MOUNT	EA	1.000	1.000
		0695- 7-600	TRAFFIC MONITORING SITE CABINET, REMOVE EXISTING CABINET	EA	1.000	1.000

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF PAY ITEMS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	SEMINOLE	439682-5-52-01		4



**TYPICAL SECTION  
SR 400 (I-4) MAINLINE (EB)  
STA. 2875+33.15 TO STA. 2970+48.94**

**EXISTING TRAVEL LANE R1**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (2 1/4")  
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1 1/2") (PG 76-22) AND  
FRICTION COURSE FC-5 (3/4") (PG 76-22)

**EXISTING TRAVEL LANES R2/R3**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (3 1/4")  
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2 1/2") (PG 76-22) AND  
FRICTION COURSE FC-5 (3/4") (PG 76-22)

**EXISTING AUXILIARY LANE/R4**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (2 3/4")  
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22) AND  
FRICTION COURSE FC-5 (3/4") (PG 76-22)

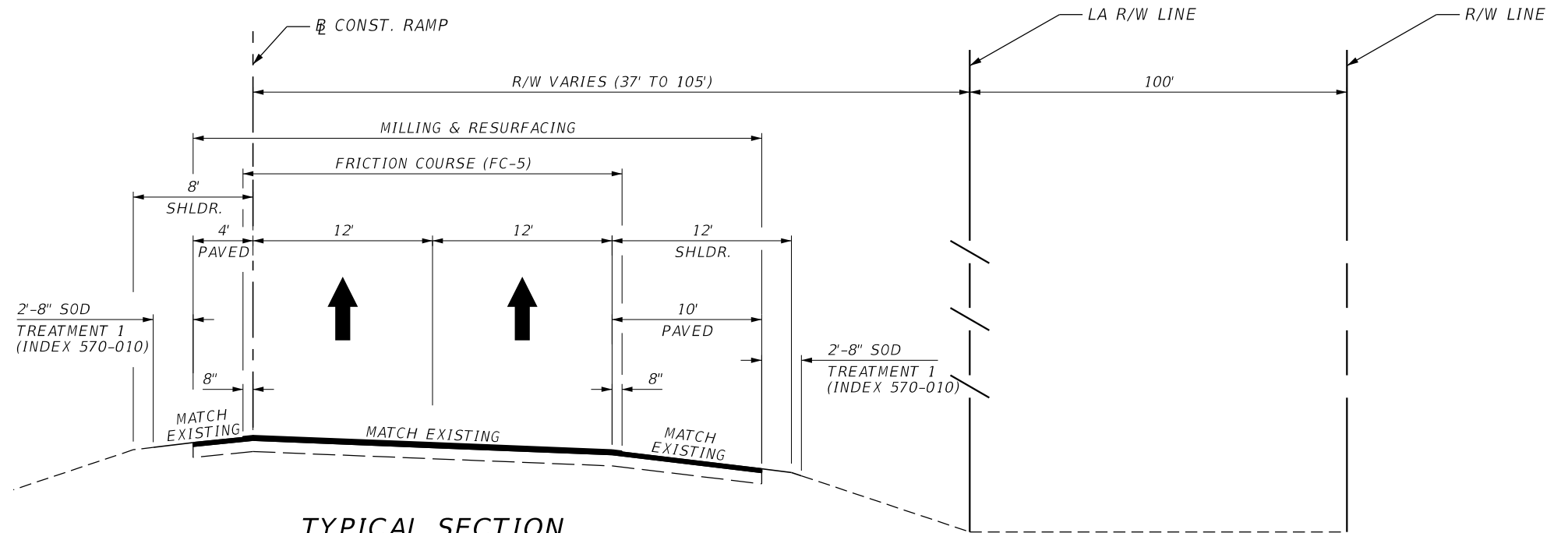
**TRAFFIC DATA**

CURRENT YEAR = 2018 AADT = 53,700  
ESTIMATED OPENING YEAR = 2020 AADT = 55,360  
ESTIMATED DESIGN YEAR = 2040 AADT = 70,670  
K = 9.0% D = 100% T = 9.0% (24 HOUR)  
DESIGN HOUR T = 9.0 %  
DESIGN SPEED = 70 MPH

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	SEMINOLE	439682-5-52-01	

**TYPICAL SECTION (1)**

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**TYPICAL SECTION**  
**SR 400 (I-4) MULTI-LANE RAMP**  
**(RAMP 3-B1)**  
**STA. 291+24.50 TO STA. 298+50.91**

**SR 46 EB OFF (RAMP 3-B1)**  
**77160014**

**EXISTING TRAVEL LANES**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (2 1/4")  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22) AND  
 FRICTION COURSE FC-5 (3/4") (PG 76-22)

**EXISTING SHOULDER PAVEMENT**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1 1/2")  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

**SR 46 EB OFF (RAMP 3-B1)**  
**77160014**

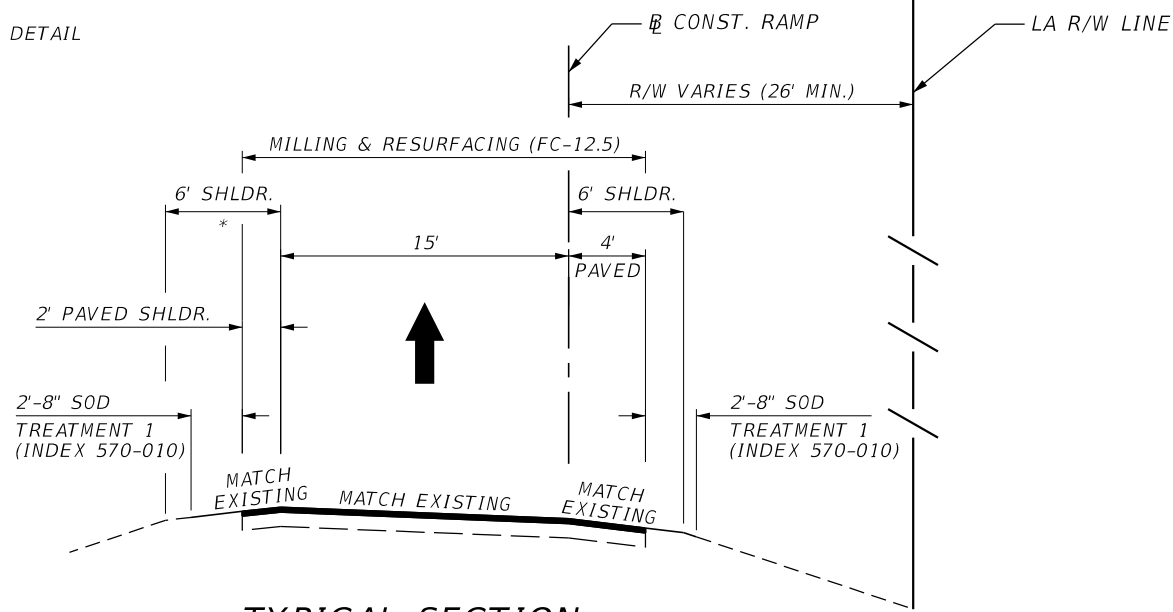
**TRAFFIC DATA**

CURRENT YEAR = 2018 AADT = 8,600  
 ESTIMATED OPENING YEAR = 2020 AADT = 9,170  
 ESTIMATED DESIGN YEAR = 2040 AADT = 14,100  
 K = 9.0% D = 100% T = 12.2% (24 HOUR)  
 DESIGN HOUR T = N/A  
 DESIGN SPEED = 50 MPH

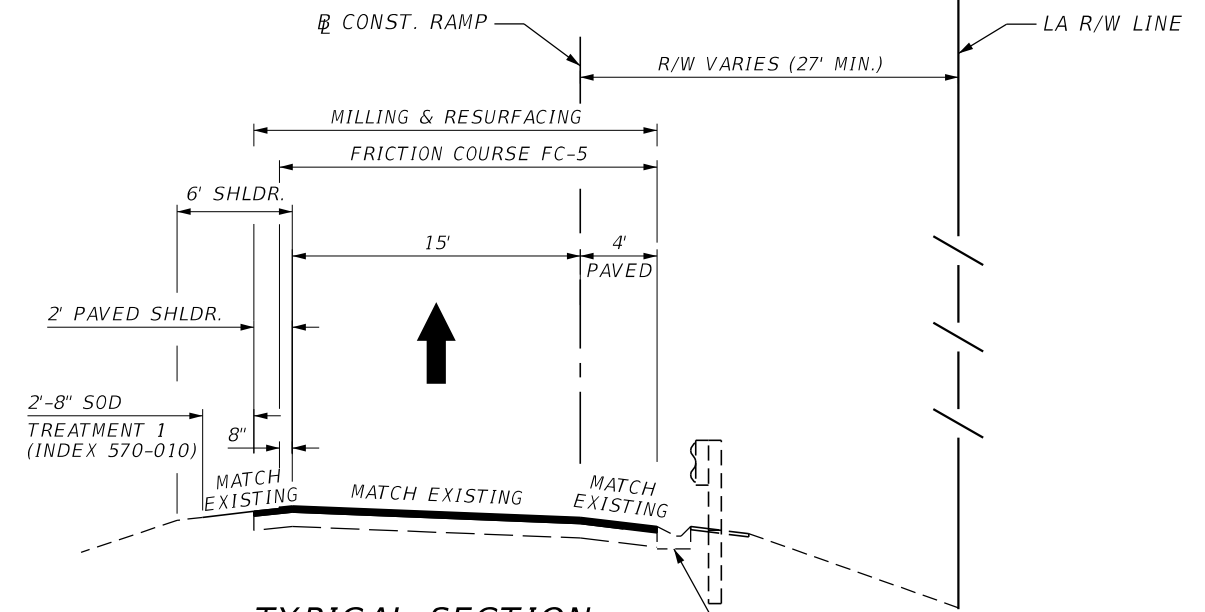
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	SEMINOLE	439682-5-52-01		

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\* RAMP C: SEE INSIDE SHOULDER DETAIL



**TYPICAL SECTION**  
**SR 400 (I-4) SINGLE-LANE RAMPS**  
**(RAMP 4-C1, RAMP C)**



**TYPICAL SECTION**  
**SR 400 (I-4) SINGLE-LANE RAMP**  
**(RAMP B1)**  
**STA. 114+69.22 TO STA. 129+33.43**

**SR 46 EB ON (RAMP 4-C1)**  
**77160036**  
**STA. 43110+91.03 TO STA. 43132+87.31**

**US 17/92 EB ON (RAMP C)**  
**77160034**  
**STA. 11+58.67 TO STA. 20+00.39**

**US 17/92 EB OFF (RAMP B1)**  
**77160037**

**EXISTING TRAVEL LANES**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (3 3/4")  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22) AND  
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

**EXISTING TRAVEL LANES**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (3")  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22) AND  
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

**EXISTING TRAVEL LANES**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (2 3/4")  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2") (PG 76-22) AND  
 FRICTION COURSE FC-5 (3/4") (PG 76-22)

**EXISTING SHOULDER PAVEMENT**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1 1/2")  
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

**EXISTING INSIDE (LEFT) SHOULDER PAVEMENT**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (3/4")  
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

**EXISTING SHOULDER PAVEMENT**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (2 3/4")  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2") (PG 76-22) AND  
 FRICTION COURSE FC-5 (3/4") (PG 76-22)

**EXISTING OUTSIDE (RIGHT) SHOULDER PAVEMENT**

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1 1/2")  
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

**SR 46 EB ON (RAMP 4-C1)**  
**77160036**

**US 17/92 EB ON (RAMP C)**  
**77160034**

**US 17/92 EB OFF (RAMP B1)**  
**77160037**

**TRAFFIC DATA**

**TRAFFIC DATA**

**TRAFFIC DATA**

CURRENT YEAR = 2018 AADT = 9,700  
 ESTIMATED OPENING YEAR = 2020 AADT = 10,370  
 ESTIMATED DESIGN YEAR = 2040 AADT = 15,520  
 K = 9.0% D = 100% T = 10.3% (24 HOUR)  
 DESIGN HOUR T = N/A  
 DESIGN SPEED = 50 MPH

CURRENT YEAR = 2018 AADT = 6,900  
 ESTIMATED OPENING YEAR = 2020 AADT = 7,170  
 ESTIMATED DESIGN YEAR = 2040 AADT = 9,600  
 K = 9.0% D = 100% T = 9.0% (24 HOUR)  
 DESIGN HOUR T = N/A  
 DESIGN SPEED = 30 MPH

CURRENT YEAR = 2018 AADT = 8,800  
 ESTIMATED OPENING YEAR = 2020 AADT = 9,260  
 ESTIMATED DESIGN YEAR = 2040 AADT = 12,400  
 K = 9.0% D = 100% T = 9.5% (24 HOUR)  
 DESIGN HOUR T = N/A  
 DESIGN SPEED = 50 MPH

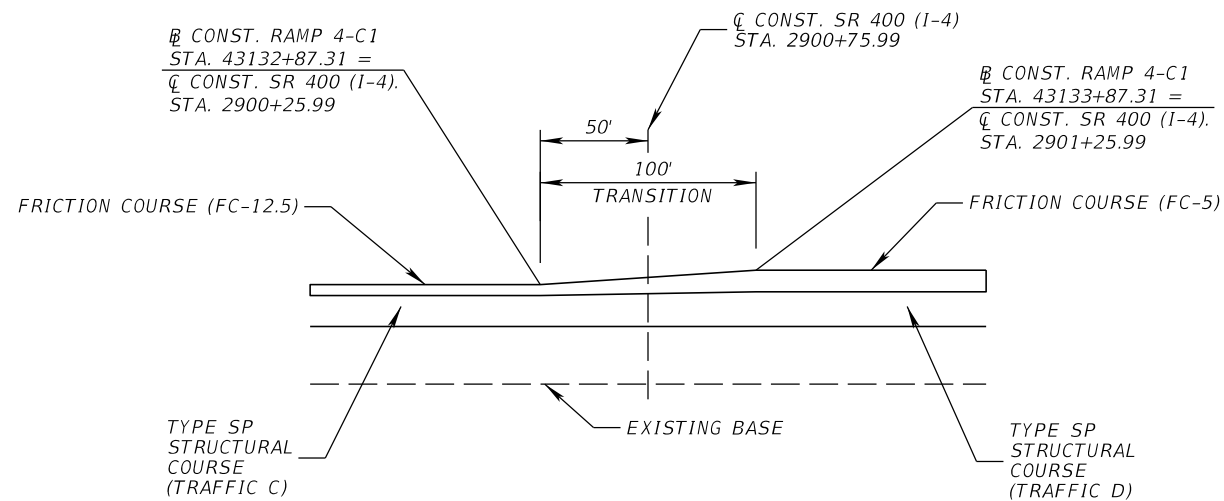
REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTION (3)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	SEMINOLE	439682-5-52-01		7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

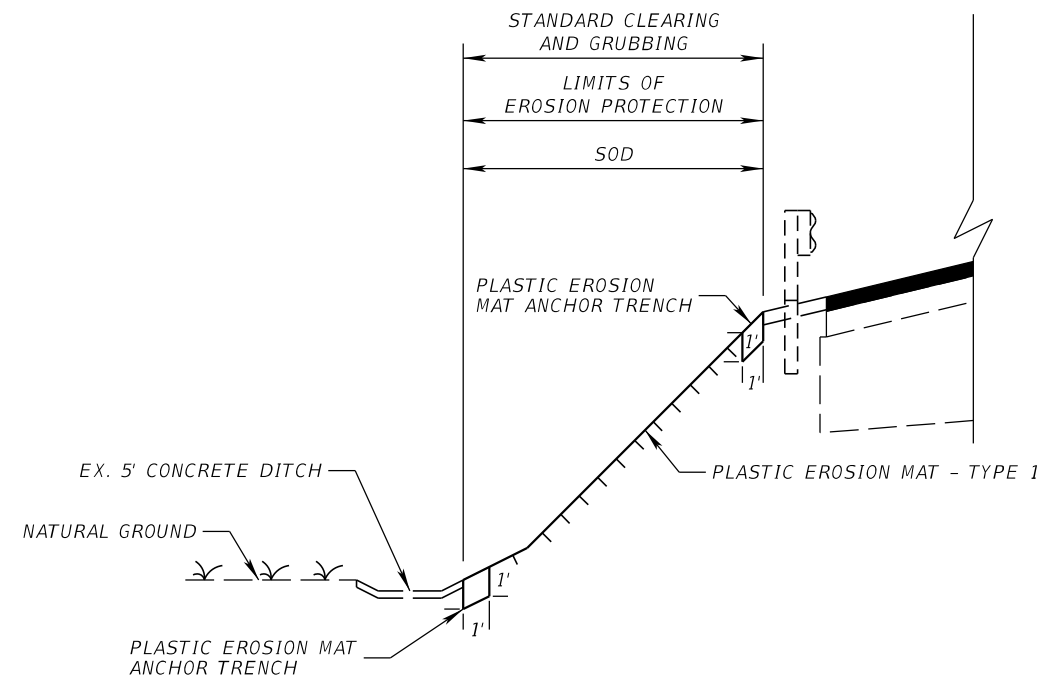


I-4 AUXILIARY LANE:  
 TYPE SP STRUCTURAL COURSE (2.00")  
 FRICTION COURSE FC-5 (1.50")

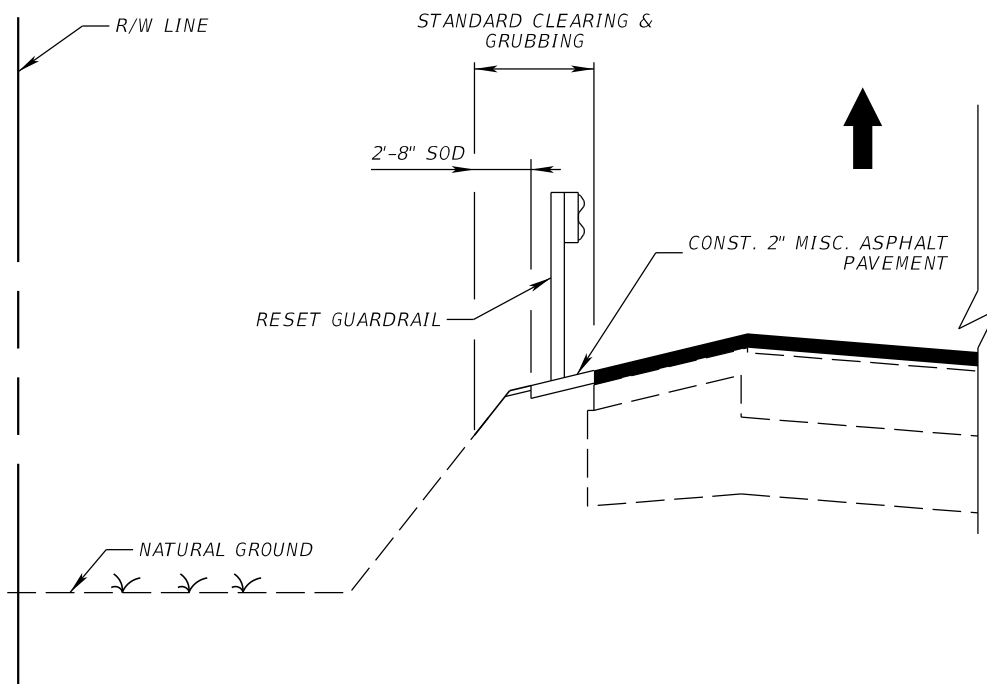
RAMP 4-C1:  
 TYPE SP STRUCTURAL COURSE (1.50")  
 FRICTION COURSE FC-12.5 (1.50")



**FEATHERING DETAIL**  
 NTS



**PLASTIC EROSION MAT DETAIL**  
 NTS



**RAMP C INSIDE (LEFT) SHOULDER DETAIL \***  
 STA. 13+58.17 TO STA. 17+60.11 (LT)  
 NTS

\* NOTE: NEW GUARDRAIL FROM STA. 13+58.17 TO STA. 14+03.93  
 RESET GUARDRAIL FROM STA. 14+03.93 TO STA. 17+60.11

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTION DETAILS</b>	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	SEMINOLE	439682-5-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GENERAL NOTES  
=====

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
2. SR 400 (I-4) HAS BEEN DESIGNATED AS A "HURRICANE EVACUATION ROUTE". ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF AN EVACUATION NOTICE FOR A HURRICANE OR ANY OTHER EMERGENCY EVENT AND SHALL REMAIN OPEN UNTIL OTHERWISE DIRECTED BY THE ENGINEER.
3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
4. UTILITY/AGENCY OWNERS:

AT&T CORPORATION  
GREG JACOBSON  
(813) 342-0512

DUKE ENERGY TRANSMISSION  
JENNIFER WILLIAMS  
(813) 909-1210

AT&T FLORIDA  
KIRBY SMITH  
(386) 366-4588

DUKE ENERGY FIBER  
MARK HURST  
(727) 820-5208

BOMBARDIER TRANSPORTATION  
(407) 732-6721

FLORIDA GAS TRANSMISSION  
JOSEPH SANCHEZ  
(407) 838-7171

CENTURYLINK  
MARLON BROWN  
(863) 452-3132

FP&L DISTRIBUTION  
MATT SAUEY  
(407) 328-1920

CHARTER COMMUNICATION  
MARVIN USRY  
(407) 532-8509

FP&L TRANSMISSION  
DALIANA AMADOR  
(561) 904-3562

CITY OF DELTONA  
FAITH MILLER  
(386) 878-8100

FLORIDA PUBLIC UTILITIES COMPANY  
JOHNNY HILL  
(386) 668-9842

CITY OF LAKE MARY  
BRUCE PASTOR  
(407) 585-1452

LEVEL 3 COMMUNICATIONS  
BRAD MORSETH  
(612) 605-5508

CITY OF SANFORD  
RICHARD BLAKE  
(407) 688-5101

SEMINOLE COUNTY ENVIRONMENTAL SERVICES W/S  
TONY MCCORMICK  
(407) 665-2118

COMCAST  
SCOTT OSEBOLD  
(352) 315-8527

VERIZON BUSINESS/MCI  
THOMAS CLARK  
(918) 590-9903

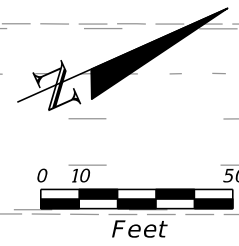
DUKE ENERGY DISTRIBUTION  
ROBB BROWN  
(352) 459-4671

VOLUSIA COUNTY W/S  
SCOTT MAYS  
(386) 943-7027 X 12076

5. SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE:

UNIVERSITY OF CENTRAL FLORIDA HOME GAMES  
RED HOT & BOOM FIREWORKS DISPLAY  
DAYTONA BIKE WEEK  
BIKETOBERFEST

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		9
					SR 400	SEMINOLE	439682-5-52-01		



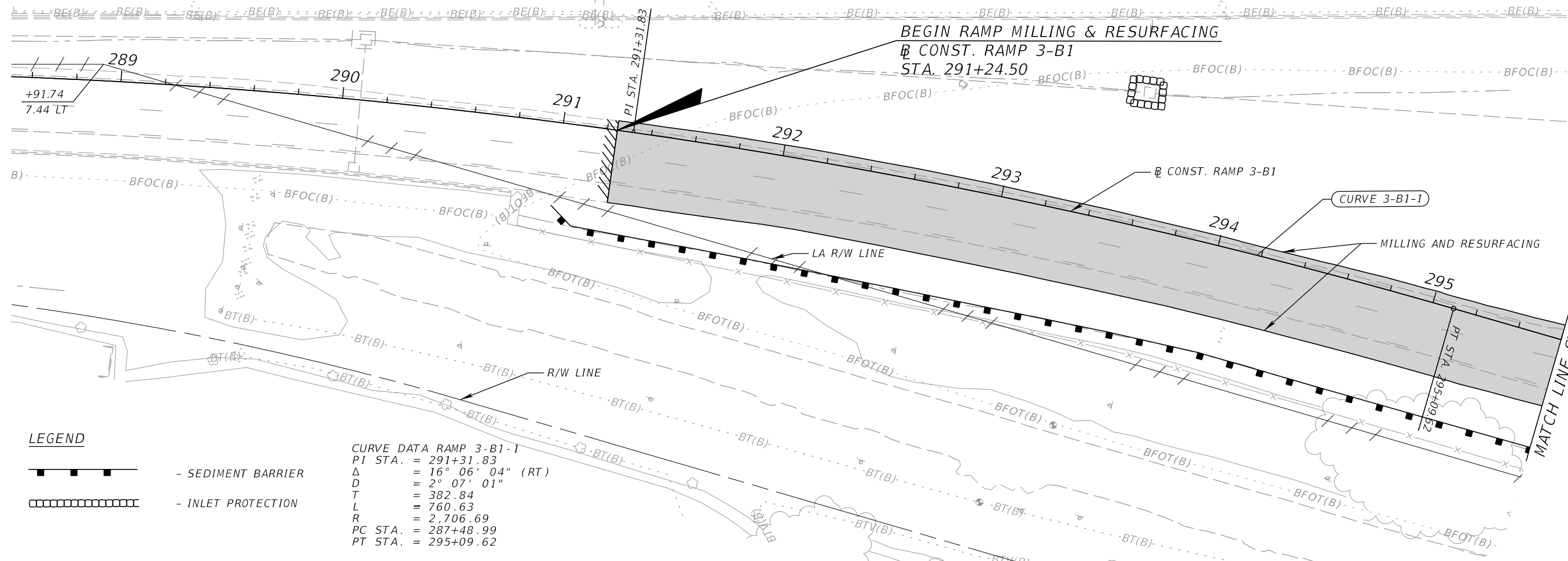
2867                      2868                      2869                      2870                      2871                      2872                      2873

N 24° 03' 07" E

BEGIN CONSTRUCTION  
 Q CONST. SR 400 (I-4)  
 STA. 2869+48.27



Q CONST. SR 400 (I-4)

MATCH LINE STA. 2873+80.00



MATCH LINE STA. 295+60.00

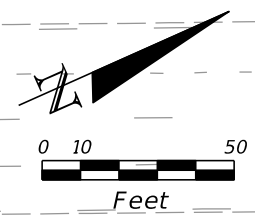
**LEGEND**

-  - SEDIMENT BARRIER
-  - INLET PROTECTION

CURVE DATA RAMP 3-B1-1  
 PI STA. = 291+31.83  
 Δ = 16° 06' 04" (RT)  
 D = 2° 07' 01"  
 T = 382.84  
 L = 760.63  
 R = 2,706.69  
 PC STA. = 287+48.99  
 PT STA. = 295+09.62

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLANS (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		10
					SR 400	SEMINOLE	439682-5-52-01		

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MATCH LINE STA. 2873+80.00

MATCH LINE STA. 2880+80.00

C CONST. SR 400 (I-4)  
 STA. 2876+39.33  
 C CONST. SR 46  
 STA. 77+74.59

2874      2875      2876      2877      2878      2879      2880

N 24° 03' 07" E

BEGIN BRIDGE #770085  
 END MILLING & RESURFACING  
 C CONST. SR 400 (I-4)  
 STA. 2875+60.99

END BRIDGE #770085  
 BEGIN MILLING & RESURFACING  
 C CONST. SR 400 (I-4)  
 STA. 2877+66.65

BRIDGE # 770085

MILLING AND RESURFACING

MILLING AND RESURFACING

BEGIN PROJECT  
 BEGIN MILLING & RESURFACING  
 C CONST. SR 400 (I-4)  
 STA. 2875+33.15

B CONST. RAMP 4-C1  
 STA. 43110+00.00  
 C CONST. SR 46  
 STA. 80+42.48

BEGIN RAMP MILLING & RESURFACING  
 B CONST. RAMP 4-C1  
 STA. 43110+91.03

MILLING AND RESURFACING

B CONST. RAMP 4-C1

CURVE DATA RAMP 3-B1-2  
 PI STA. = 297+10.51  
 Δ = 13° 31' 18" (LT)  
 D = 5° 27' 27"  
 T = 124.46  
 L = 247.76  
 R = 1,049.87  
 PC STA. = 295+86.05  
 PT STA. = 298+33.82

END RAMP MILLING & RESURFACING  
 B CONST. RAMP 3-B1  
 STA. 298+50.91

B CONST. RAMP 3-B1

CURVE 3-B1-2

B CONST. RAMP 3-B1  
 STA. 299+73.38  
 C CONST. SR 46  
 STA. 81+35.00

MILLING AND RESURFACING

LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION

MATCH LINE STA. 43113+40.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

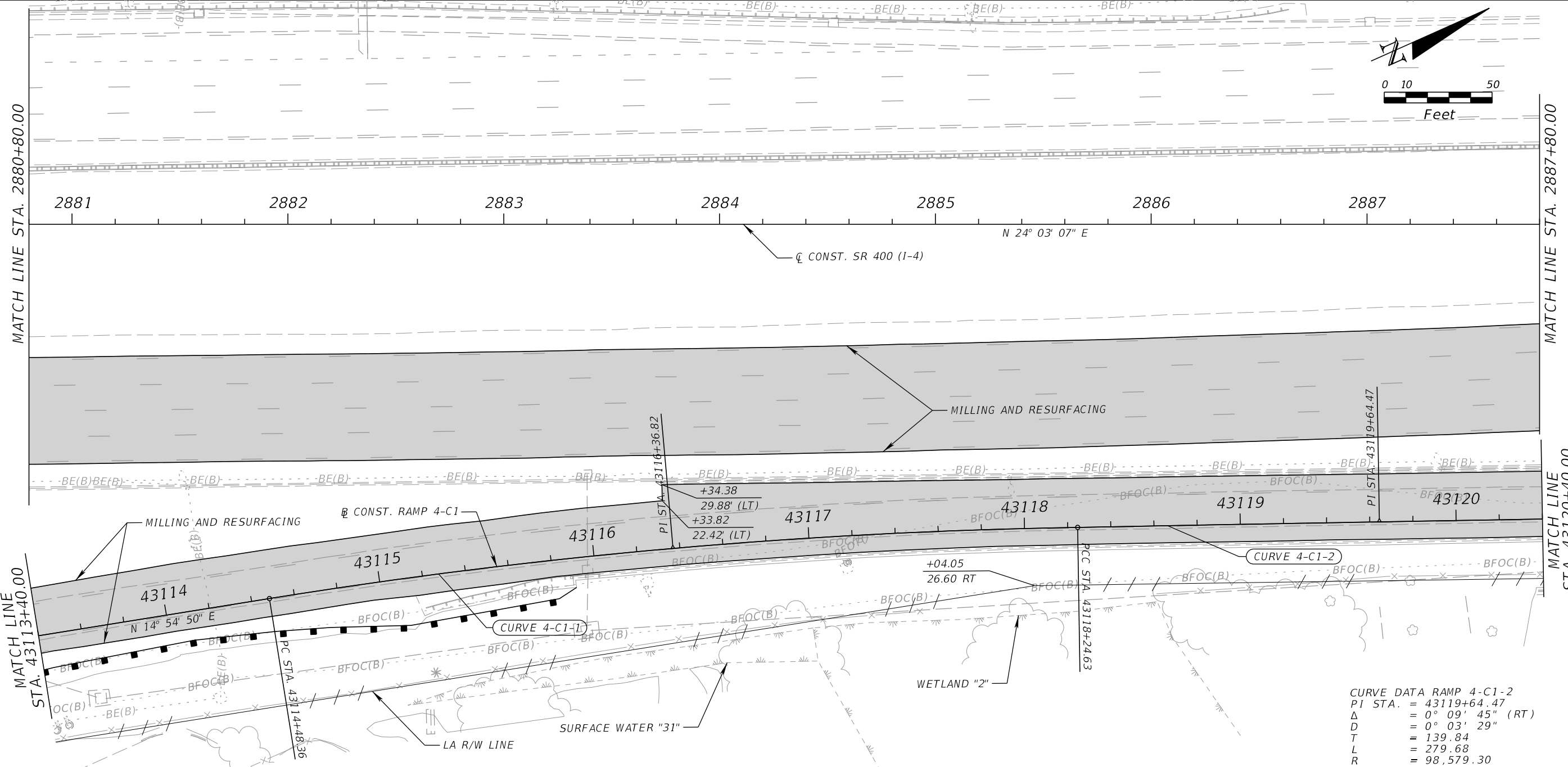
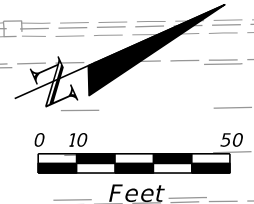
NATHAN BALO, P.E.  
 P.E. LICENSE NUMBER 70824  
 HORIZON ENGINEERING GROUP, INC.  
 2603 MAITLAND CENTER PKWY., SUITE B  
 MAITLAND, FL 32751  
 CERTIFICATE OF AUTHORIZATION 00009544

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	SEMINOLE	439682-5-52-01

ROADWAY PLANS (2)

SHEET NO.  
**11**

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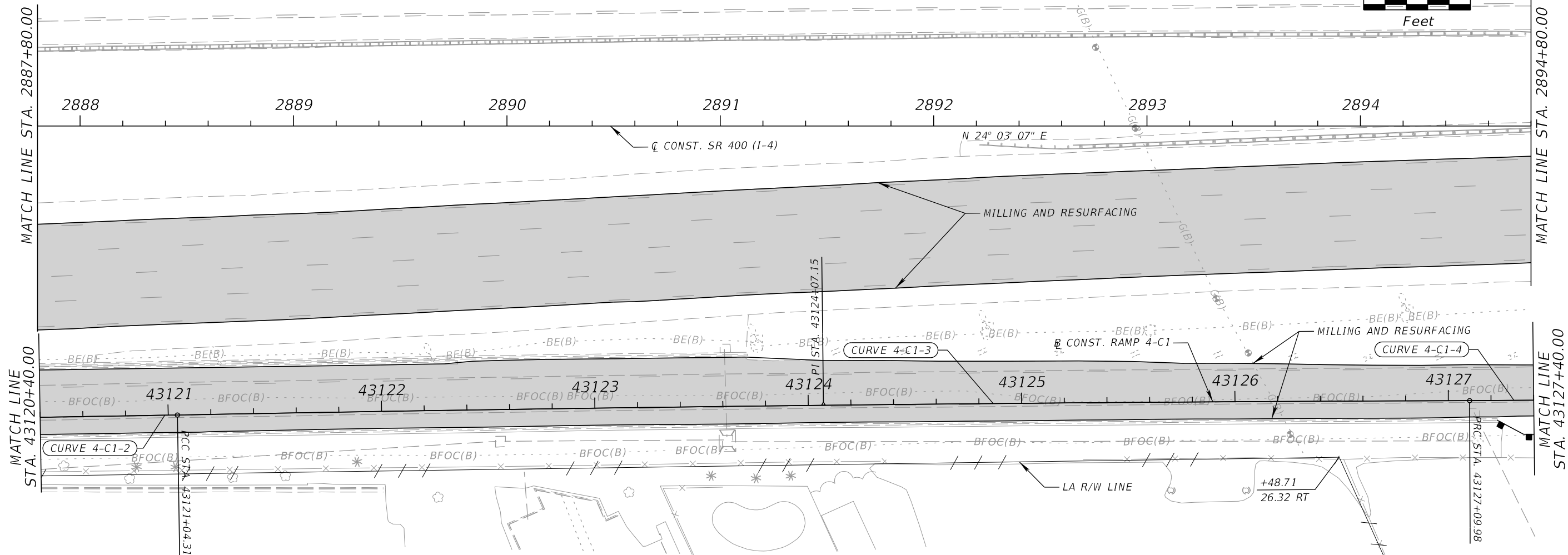
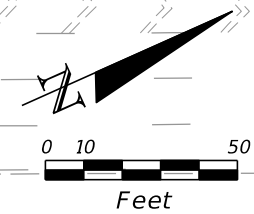
CURVE DATA RAMP 4-C1-1  
 PI STA. = 43116+36.82  
 $\Delta$  = 8° 12' 49" (RT)  
 D = 2° 10' 59"  
 T = 188.45  
 L = 376.26  
 R = 2,624.67  
 PC STA. = 43114+48.36  
 PCC STA. = 43118+24.63

CURVE DATA RAMP 4-C1-2  
 PI STA. = 43119+64.47  
 $\Delta$  = 0° 09' 45" (RT)  
 D = 0° 03' 29"  
 T = 139.84  
 L = 279.68  
 R = 98,579.30  
 PCC STA. = 43118+24.63  
 PT STA. = 43121+04.31

**LEGEND**  
 ■■■■■■■■■■ - SEDIMENT BARRIER  
 □□□□□□□□□□ - INLET PROTECTION

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PLANS (3)</b>  SHEET NO. 12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	SEMINOLE	439682-5-52-01	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



CURVE DATA RAMP 4-C1-2  
 PI STA. = 43119+64.47  
 $\Delta$  = 0° 09' 45" (RT)  
 D = 0° 03' 29"  
 T = 139.84  
 L = 279.68  
 R = 98,579.30  
 PCC STA. = 43118+24.63  
 PCC STA. = 43121+04.31

CURVE DATA RAMP 4-C1-3  
 PI STA. = 43124+07.15  
 $\Delta$  = 0° 53' 52" (RT)  
 D = 0° 08' 54"  
 T = 302.84  
 L = 605.67  
 R = 38,650.85  
 PCC STA. = 43121+04.31  
 PRC STA. = 43127+09.98

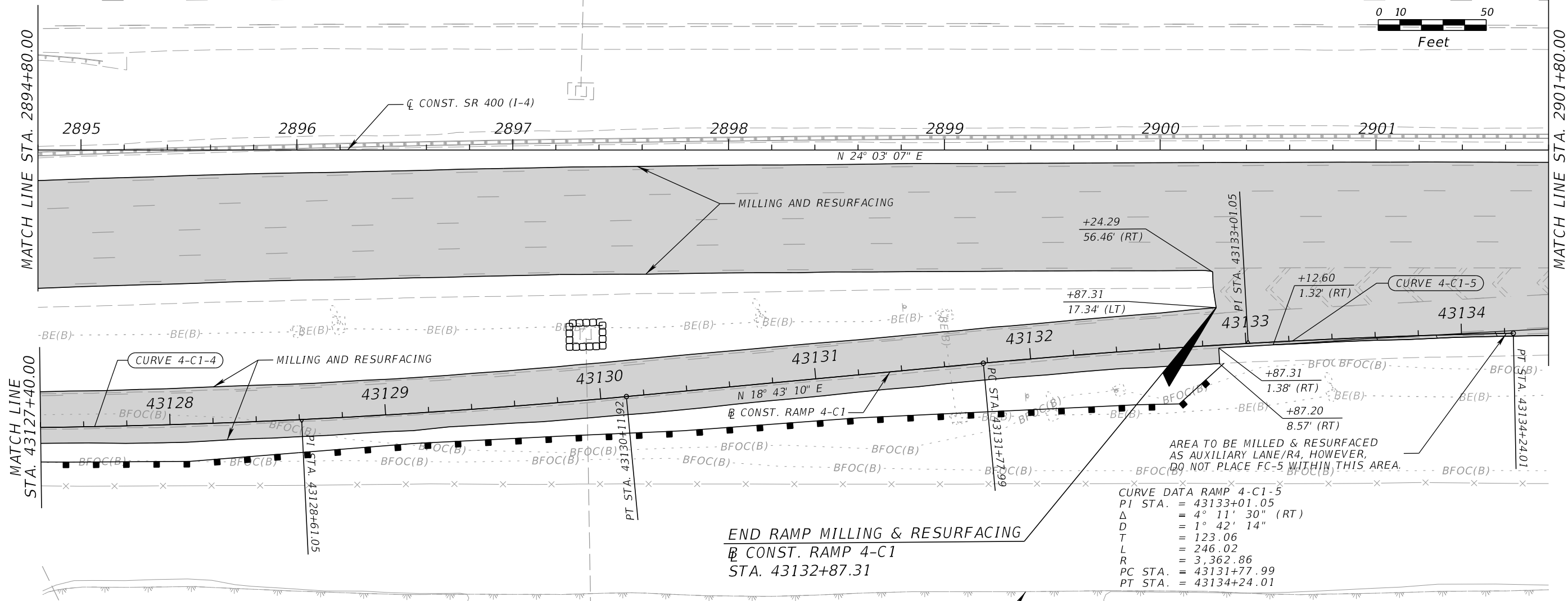
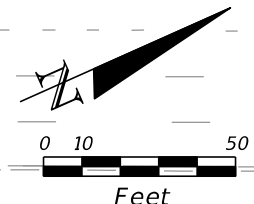
CURVE DATA RAMP 4-C1-4  
 PI STA. = 43128+61.05  
 $\Delta$  = 5° 08' 37" (LT)  
 D = 1° 42' 13"  
 T = 151.07  
 L = 301.94  
 R = 3,363.28  
 PRC STA. = 43127+09.98  
 PT STA. = 43130+11.92

**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLANS (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		13
					SR 400	SEMINOLE	439682-5-52-01		

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**CURVE DATA RAMP 4-C1-4**  
 PI STA. = 43128+61.05  
 $\Delta$  = 5° 08' 37" (LT)  
 D = 1° 42' 13"  
 T = 151.07  
 L = 301.94  
 R = 3,363.28  
 PRC STA. = 43127+09.98  
 PT STA. = 43130+11.92

**END RAMP MILLING & RESURFACING**  
 CONST. RAMP 4-C1  
 STA. 43132+87.31

**CURVE DATA RAMP 4-C1-5**  
 PI STA. = 43133+01.05  
 $\Delta$  = 4° 11' 30" (RT)  
 D = 1° 42' 14"  
 T = 123.06  
 L = 246.02  
 R = 3,362.86  
 PC STA. = 43131+77.99  
 PT STA. = 43134+24.01

AREA TO BE MILLED & RESURFACED  
 AS AUXILIARY LANE/R4, HOWEVER,  
 DO NOT PLACE FC-5 WITHIN THIS AREA.

**LEGEND**

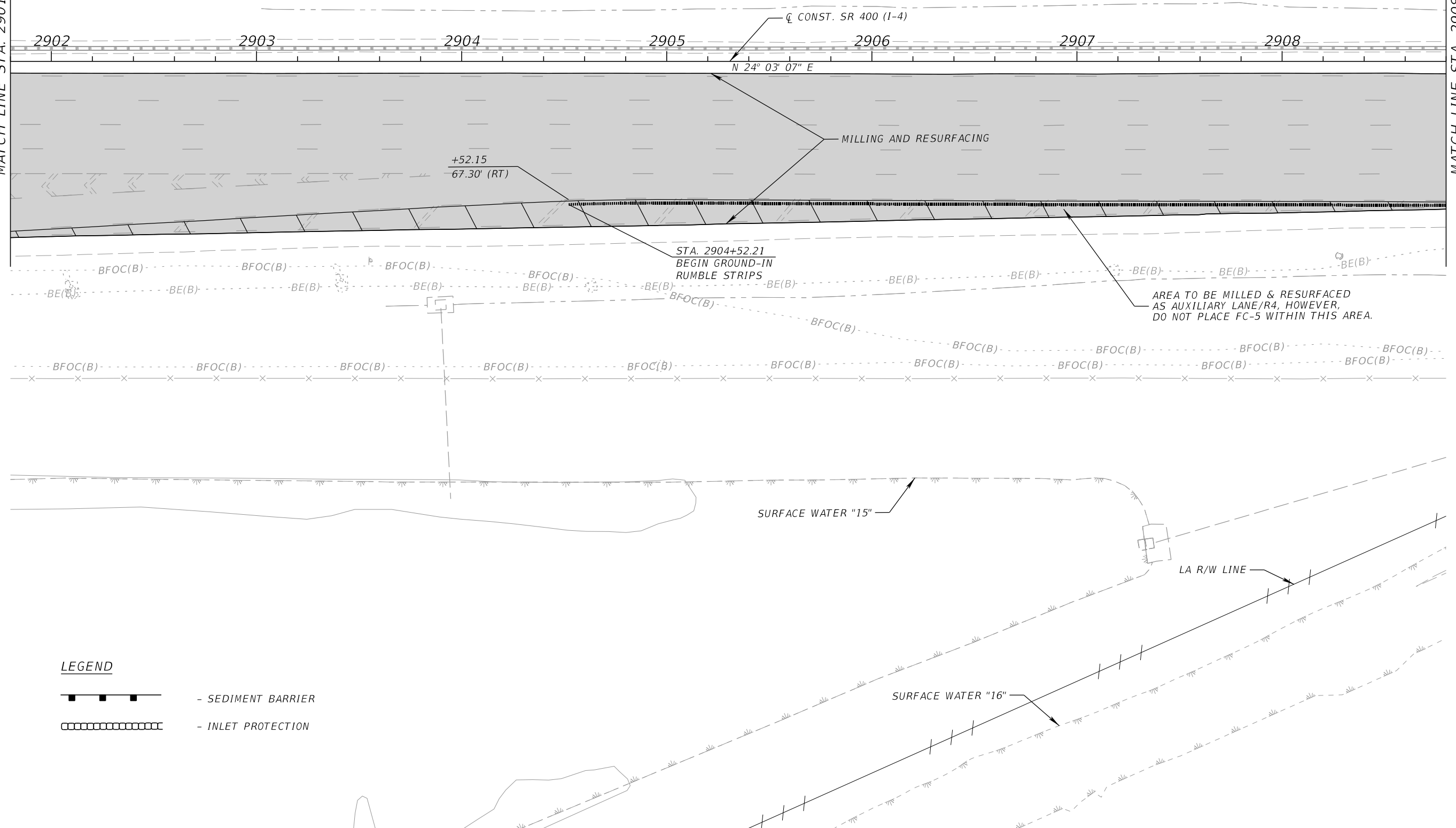
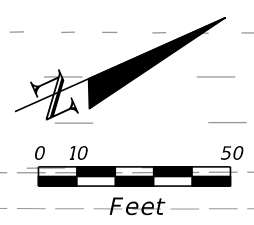
- SEDIMENT BARRIER
- INLET PROTECTION

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PLANS (5)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		14
					SR 400	SEMINOLE	439682-5-52-01		

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MATCH LINE STA. 2901+80.00

MATCH LINE STA. 2908+80.00



+52.15  
67.30' (RT)

STA. 2904+52.21  
BEGIN GROUND-IN  
RUMBLE STRIPS

AREA TO BE MILLED & RESURFACED  
AS AUXILIARY LANE/R4, HOWEVER,  
DO NOT PLACE FC-5 WITHIN THIS AREA.

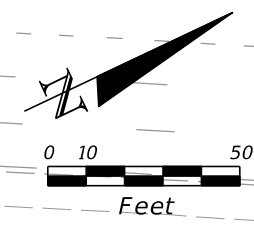
**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLANS (6)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		15
					SR 400	SEMINOLE	439682-5-52-01		

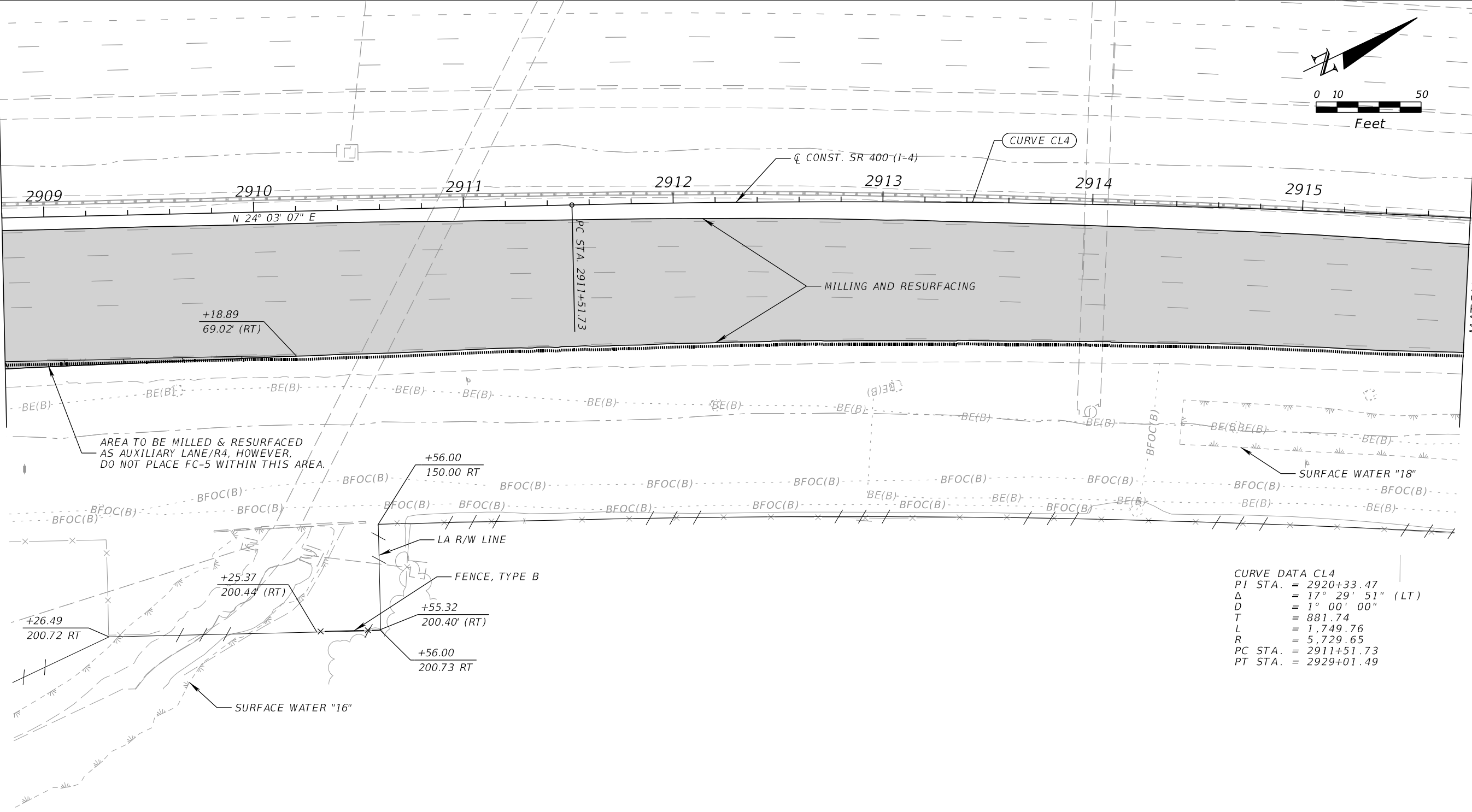
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





MATCH LINE STA. 2908+80.00

MATCH LINE STA. 2915+80.00



AREA TO BE MILLED & RESURFACED AS AUXILIARY LANE/R4, HOWEVER, DO NOT PLACE FC-5 WITHIN THIS AREA.

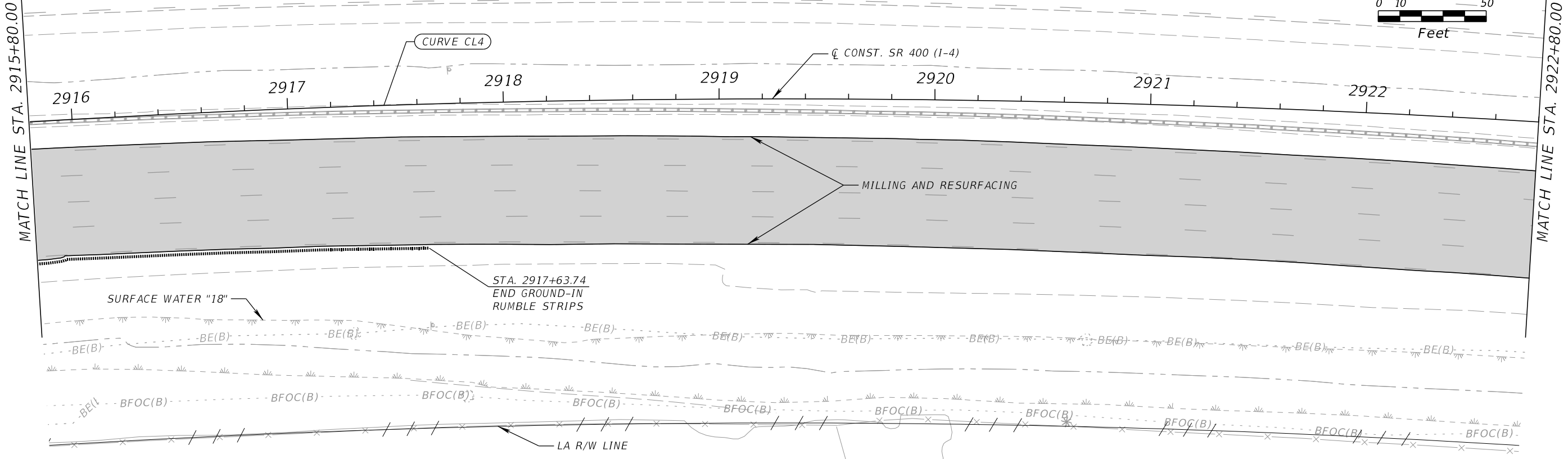
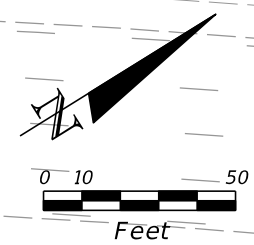
**CURVE DATA CL4**  
 PI STA. = 2920+33.47  
 $\Delta$  = 17° 29' 51" (LT)  
 D = 1° 00' 00"  
 T = 881.74  
 L = 1,749.76  
 R = 5,729.65  
 PC STA. = 2911+51.73  
 PT STA. = 2929+01.49

**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PLANS (7)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		16
					SR 400	SEMINOLE	439682-5-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



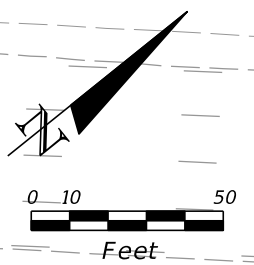
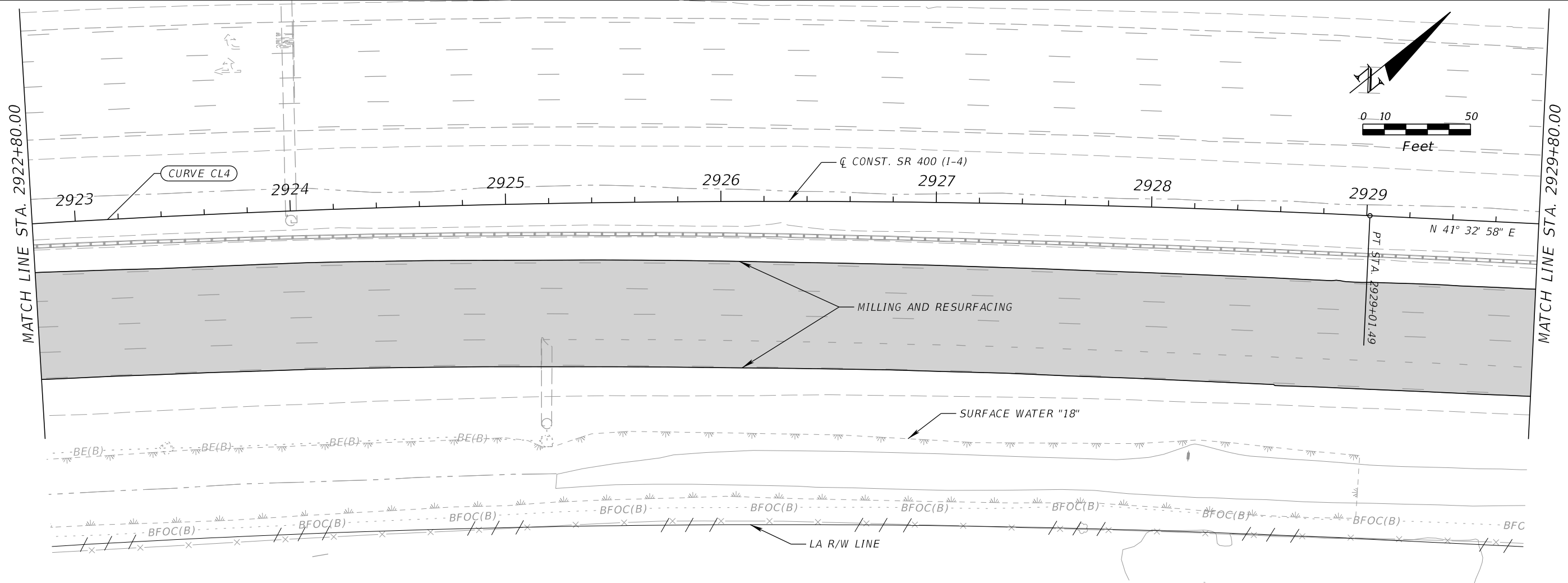
CURVE DATA CL4  
 PI STA. = 2920+33.47  
 $\Delta$  = 17° 29' 51" (LT)  
 D = 1° 00' 00"  
 T = 881.74  
 L = 1,749.76  
 R = 5,729.65  
 PC STA. = 2911+51.73  
 PT STA. = 2929+01.49

**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLANS (8)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		17
					SR 400	SEMINOLE	439682-5-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**CURVE DATA CL4**  
 PI STA. = 2920+33.47  
 $\Delta$  = 17° 29' 51" (LT)  
 D = 1° 00' 00"  
 T = 881.74  
 L = 1,749.76  
 R = 5,729.65  
 PC STA. = 2911+51.73  
 PT STA. = 2929+01.49

**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PLANS (9)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		18
					SR 400	SEMINOLE	439682-5-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCH LINE STA. 2929+80.00

2930

2931

2932

2933

2934

2935

2936

CONST. SR 400 (I-4)

N 41° 32' 58" E

MILLING AND RESURFACING



MATCH LINE STA. 2936+80.00

MATCH LINE STA. 110+80.00

POT. STA. 109+99.74  
110

N 45° 32' 56" E

CONST. RAMP B1

STA. 2936+00.00  
BEGIN GROUND-IN  
RUMBLE STRIPS

BFOC(B)

+23.34  
150.00 RT

+59.19  
150.00 RT

+76.21  
210.00 RT

R/W LINE

SURFACE WATER "18A"

R/W LINE

LA R/W LINE

LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

NATHAN BALO, P.E.  
P.E. LICENSE NUMBER 70824  
HORIZON ENGINEERING GROUP, INC.  
2603 MAITLAND CENTER PKWY., SUITE B  
MAITLAND, FL 32751  
CERTIFICATE OF AUTHORIZATION 00009544

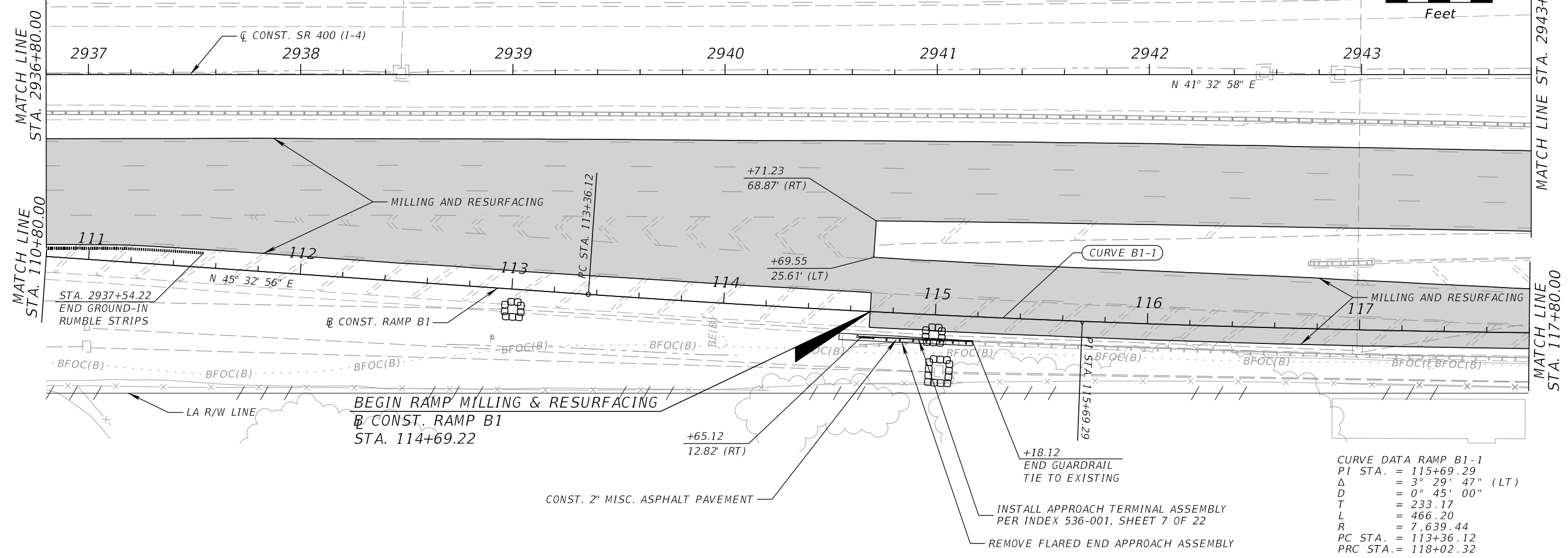
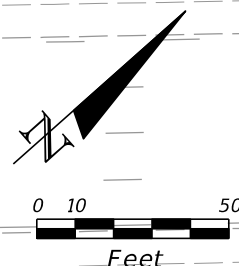
STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	SEMINOLE	439682-5-52-01

ROADWAY PLANS (10)

SHEET NO.  
19

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**CURVE DATA RAMP B1-1**

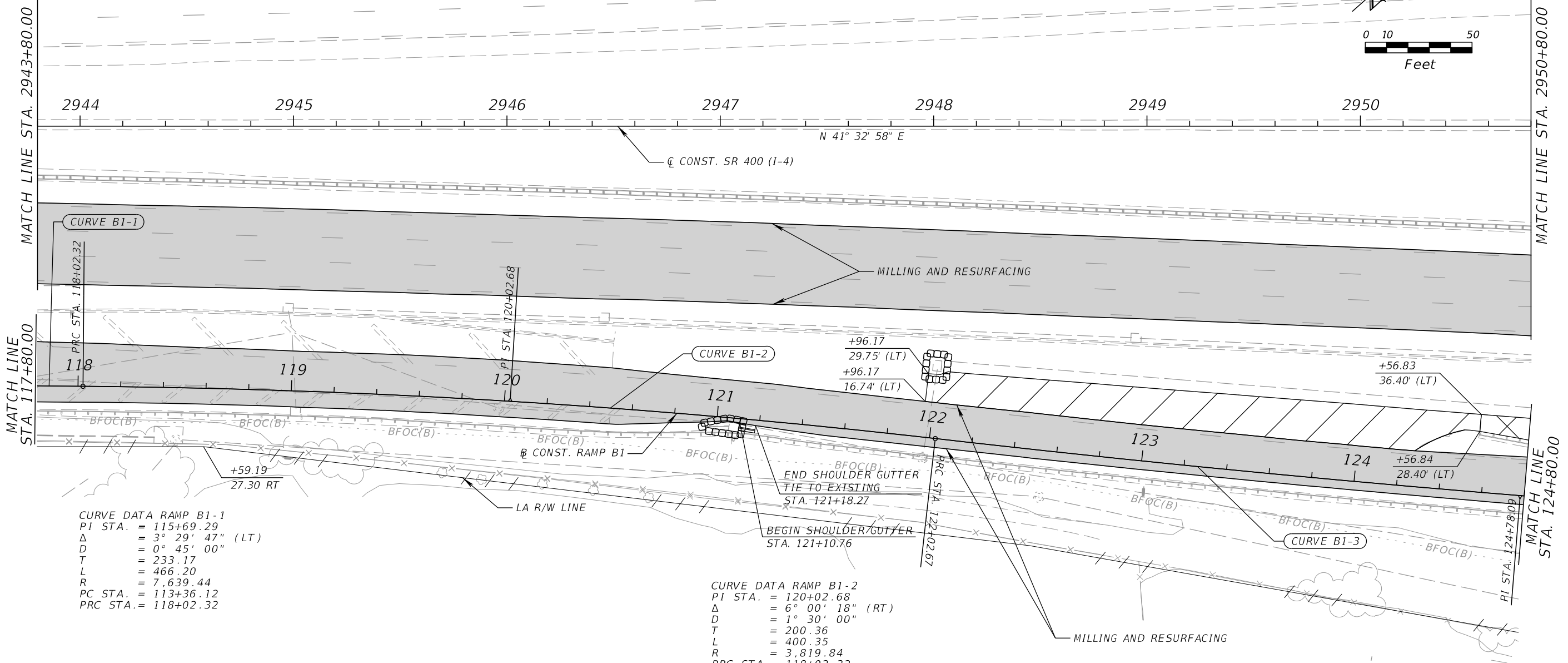
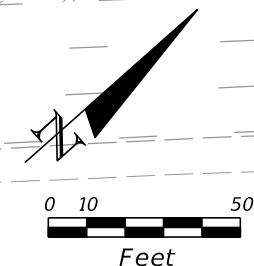
PI STA.	= 115+69.29
$\Delta$	= 3° 29' 47" (LT)
D	= 0° 45' 00"
T	= 233.17
L	= 466.20
R	= 7,639.44
PC STA.	= 113+36.12
PRC STA.	= 118+02.32

**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION

<b>REVISIONS</b>				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	<b>STATE OF FLORIDA</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>ROADWAY PLANS (11)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		20
					SR 400	SEMINOLE	439682-5-52-01		

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**CURVE DATA RAMP B1-1**  
 PI STA. = 115+69.29  
 $\Delta$  = 3° 29' 47" (LT)  
 D = 0° 45' 00"  
 T = 233.17  
 L = 466.20  
 R = 7,639.44  
 PC STA. = 113+36.12  
 PRC STA. = 118+02.32

**CURVE DATA RAMP B1-2**  
 PI STA. = 120+02.68  
 $\Delta$  = 6° 00' 18" (RT)  
 D = 1° 30' 00"  
 T = 200.36  
 L = 400.35  
 R = 3,819.84  
 PRC STA. = 118+02.32  
 PRC STA. = 122+02.67

**CURVE DATA RAMP B1-3**  
 PI STA. = 124+78.09  
 $\Delta$  = 3° 46' 42" (LT)  
 D = 0° 41' 10"  
 T = 275.42  
 L = 550.64  
 R = 8,349.81  
 PRC STA. = 122+02.67  
 PT STA. = 127+53.31

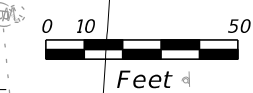
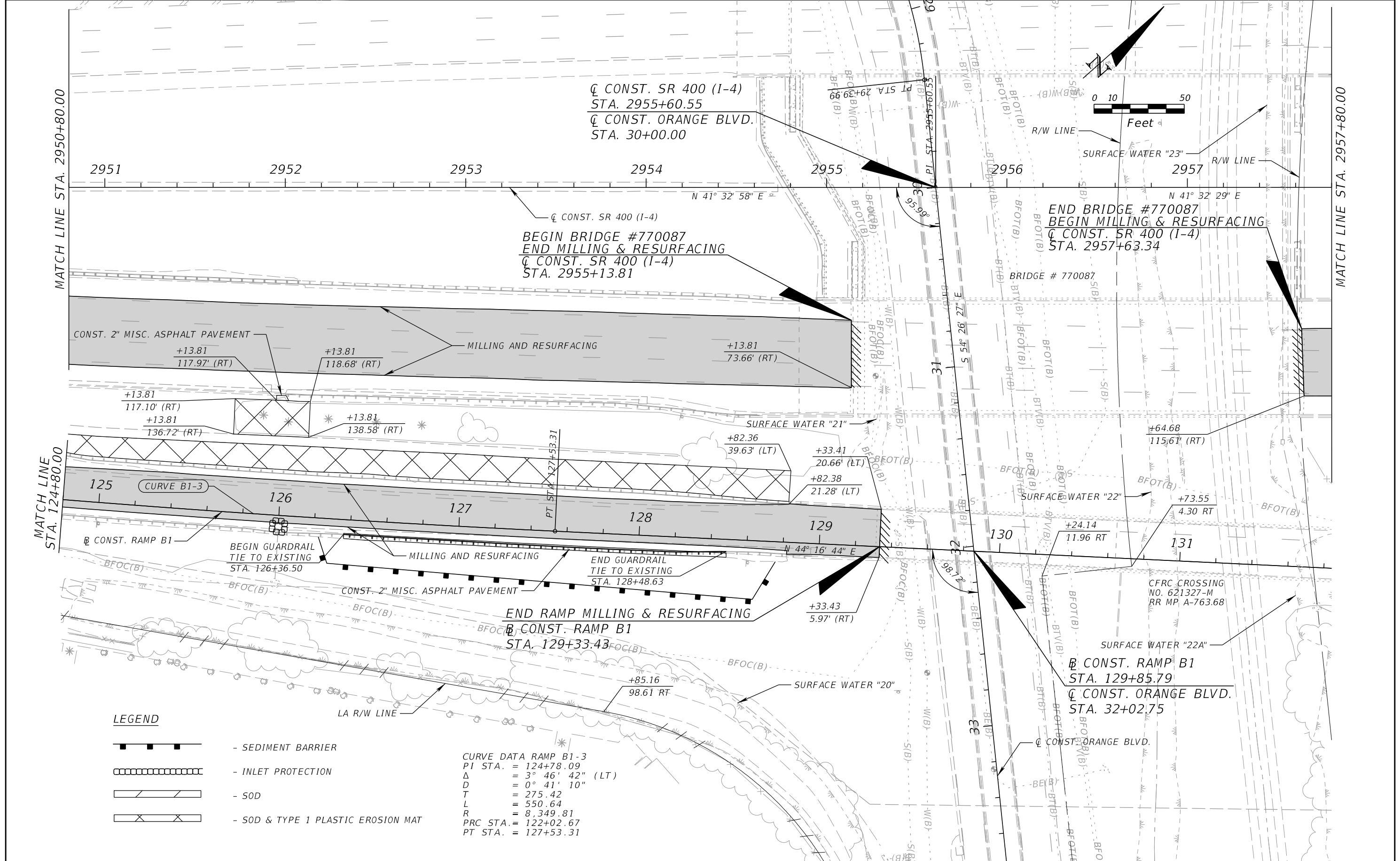
**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION
- SOD
- SOD & TYPE 1 PLASTIC EROSION MAT

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PLANS (12)</b>	SHEET NO.  21
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400	SEMINOLE	439682-5-52-01		

NATHAN BALO, P.E.  
 P.E. LICENSE NUMBER 70824  
 HORIZON ENGINEERING GROUP, INC.  
 2603 MAITLAND CENTER PKWY., SUITE B  
 MAITLAND, FL 32751  
 CERTIFICATE OF AUTHORIZATION 00009544

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**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION
- SOD
- SOD & TYPE 1 PLASTIC EROSION MAT

CURVE DATA RAMP B1-3  
 PI STA. = 124+78.09  
 $\Delta$  = 3° 46' 42" (LT)  
 D = 0° 41' 10"  
 T = 275.42  
 L = 550.64  
 R = 8,349.81  
 PRC STA. = 122+02.67  
 PT STA. = 127+53.31

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PLANS (13)</b>  SHEET NO.  22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	SEMINOLE	439682-5-52-01	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

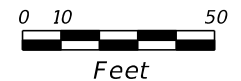
MATCH LINE STA. 2957+80.00

MATCH LINE STA. 2964+80.00

2958 2959 2960 2961 2962 2963 2964

N 41° 32' 29" E

CL CONST. SR 400 (1-4)



BEGIN GUARDRAIL  
TIE TO EXISTING  
STA. 2958+30.10

MILLING AND RESURFACING

END GUARDRAIL  
TIE TO EXISTING  
STA. 2962+64.95

+30.08

INSTALL GUARDRAIL PER  
INDEX 536-001, SHEET 18 OF 22

INSTALL GUARDRAIL

CONST. 2" MISC. ASPHALT PAVEMENT

+59.91  
23.09' (LT)

END GUARDRAIL RESET  
STA. 17+60.11

+59.60  
17.73' (LT)

CONST. RAMP C

MATCH LINE  
STA. 19+00.00

SURFACE WATER "22A"

132

133

134

135

N 44° 16' 44" E

CONST. RAMP B1

POT STA. 135+34.27

BFOT(B)

BEGIN GUARDRAIL  
TIE TO EXISTING  
STA. 16+80.68

17

CURVE C-2

POT STA. 18+40.21

CONST. 2" MISC. ASPHALT PAVEMENT

RESET GUARDRAIL

CONST. 2" MISC. ASPHALT PAVEMENT

SURFACE WATER "23"

**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION

RESET GUARDRAIL

MILLING AND RESURFACING

WETLAND "3"

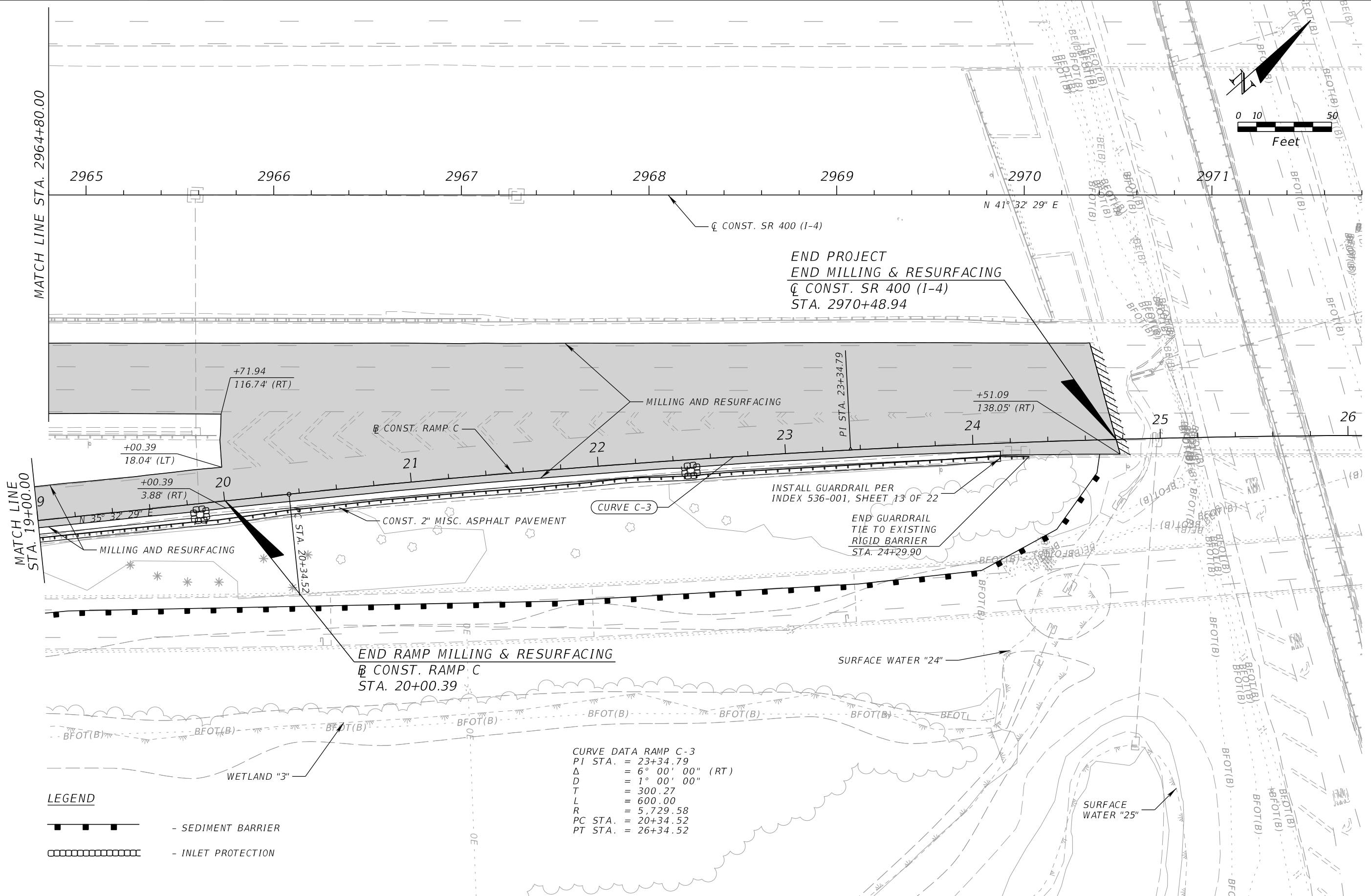
MATCH LINE  
STA. 15+40.00

**CURVE DATA RAMP C-2**  
 PI STA. = 16+80.68  
 Δ = 90° 00' 38" (RT)  
 D = 20° 30' 01"  
 T = 279.54  
 L = 439.07  
 R = 279.49  
 PC STA. = 14+01.14  
 PT STA. = 18+40.21

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PLANS (14)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	SEMINOLE	439682-5-52-01		23

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

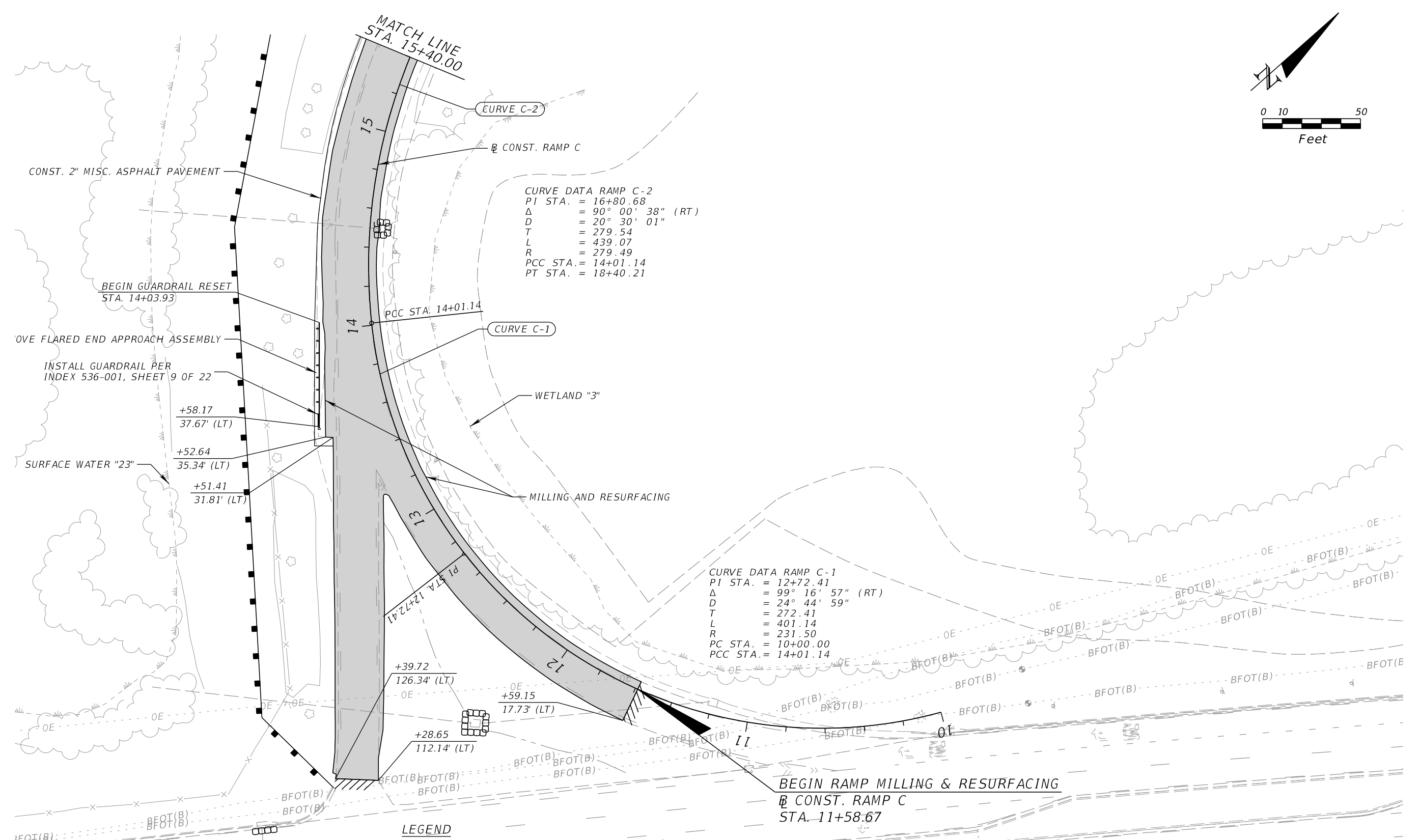
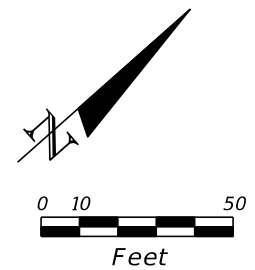
NATHAN BALO, P.E.  
 P.E. LICENSE NUMBER 70824  
 HORIZON ENGINEERING GROUP, INC.  
 2603 MAITLAND CENTER PKWY., SUITE B  
 MAITLAND, FL 32751  
 CERTIFICATE OF AUTHORIZATION 00009544

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	SEMINOLE	439682-5-52-01

**ROADWAY PLANS (15)**

SHEET NO.  
24

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**CURVE DATA RAMP C-2**  
 PI STA. = 16+80.68  
 $\Delta$  = 90° 00' 38" (RT)  
 D = 20° 30' 01"  
 T = 279.54  
 L = 439.07  
 R = 279.49  
 PCC STA. = 14+01.14  
 PT STA. = 18+40.21

**CURVE DATA RAMP C-1**  
 PI STA. = 12+72.41  
 $\Delta$  = 99° 16' 57" (RT)  
 D = 24° 44' 59"  
 T = 272.41  
 L = 401.14  
 R = 231.50  
 PC STA. = 10+00.00  
 PCC STA. = 14+01.14

- LEGEND**
- — — — — - SEDIMENT BARRIER
  - □ □ □ □ □ □ □ □ □ □ □ - INLET PROTECTION

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLANS (16)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		25
					SR 400	SEMINOLE	439682-5-52-01		

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## TTCP NOTES

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 7 DAYS IN ADVANCE OF ANY LANE CLOSURES OR DETOURS.
2. THE LANE CLOSURE RESTRICTIONS FOR THIS PROJECT ARE AS FOLLOWS:
  - SR 400 (I-4) SINGLE LANE CLOSURE  
- NO LANE CLOSURES FROM 7:00 AM TO 9:00 PM
  - SR 400 (I-4) DOUBLE LANE CLOSURE  
- NO LANE CLOSURES FROM 6:00 AM TO 11:00 PM
3. LANE CLOSURES MAY ONLY BE USED DURING ACTIVE WORK PERIODS.

## PHASING NOTES

### PHASE 1

1. INSTALL PROJECT INFORMATION SIGNS, TEMPORARY TRAFFIC CONTROL SIGNS AND EROSION CONTROL.
2. INSTALL WORK ZONE CHANNELIZING DEVICES.
3. MILL AND RESURFACE THE OUTSIDE TRAVEL LANE AND AUXILIARY LANE, EXCEPT FRICTION COURSE.

### PHASE 2

1. MAINTAIN TEMPORARY TRAFFIC CONTROL SIGNS AND EROSION CONTROL.
2. INSTALL WORK ZONE CHANNELIZING DEVICES.
3. MILL AND RESURFACE THE INSIDE AND CENTER TRAVEL LANE, EXCEPT FRICTION COURSE.

### PHASE 3

1. MAINTAIN TEMPORARY TRAFFIC CONTROL SIGNS AND EROSION CONTROL.
2. INSTALL WORK ZONE CHANNELIZING DEVICES.
3. MILL AND RESURFACE THE RAMP TRAVEL LANE(S) AND SHOULDERS.
4. RESURFACE TRAVEL LANES AND AUXILIARY LANES WITH FRICTION COURSE.
5. REMOVE TEMPORARY TRAFFIC CONTROL SIGNS AND EROSION CONTROL.

## PORTABLE CHANGEABLE MESSAGE SIGN

7 DAYS PRIOR TO  
BEGIN CONSTRUCTION

DISPLAY 1	DISPLAY 2
ROAD WORK	BEGIN (DAY AND DATE)

DURING  
LANE CLOSURES

DISPLAY 1	DISPLAY 2
LANE CLOSED AHEAD	MERGE (LEFT OR RIGHT)

7 DAYS PRIOR TO DETOUR

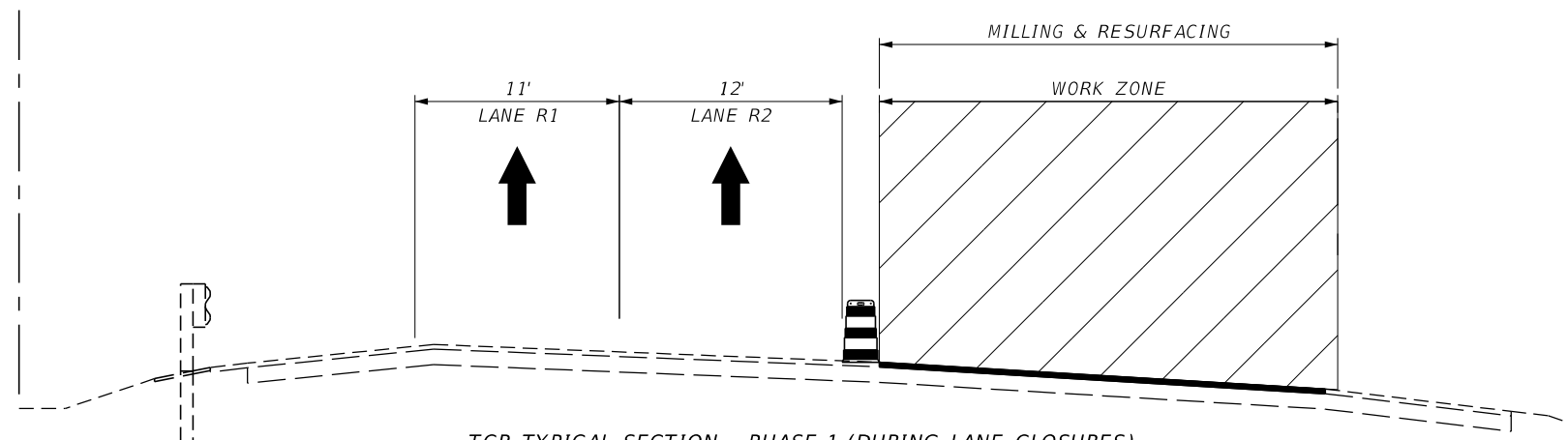
DISPLAY 1	DISPLAY 2
NIGHT TIME DETOUR	BEGIN (DAY) (TIME)

DURING DETOUR

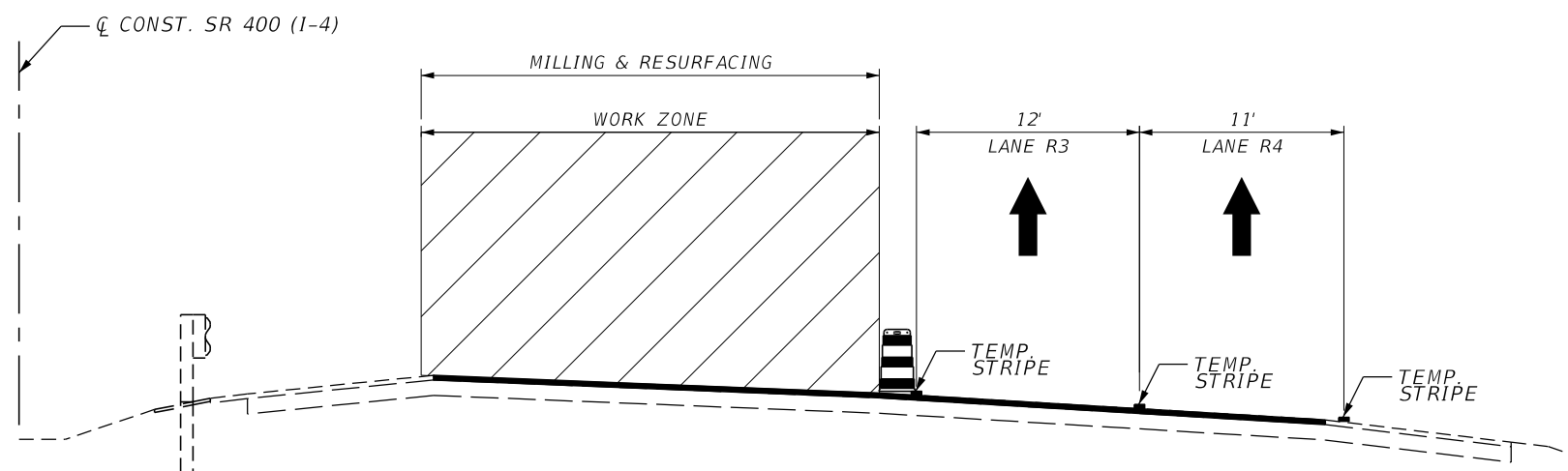
DISPLAY 1	DISPLAY 2
RAMP CLOSED AHEAD	FOLLOW DETOUR SIGNS

## DETOUR NOTES

1. DETOURS FOR SINGLE LANE RAMPS ARE PERMITTED FROM 11:00 PM TO 6:00 AM.
2. PCMS SHALL BE INSTALLED 7 DAYS PRIOR TO DETOUR.
3. UNIFORMED OFF DUTY TRAFFIC CONTROL OFFICERS SHALL BE PROVIDED FOR DETOUR.
4. ONLY ONE ACTIVE DETOUR IS ALLOWED AT ANYTIME.

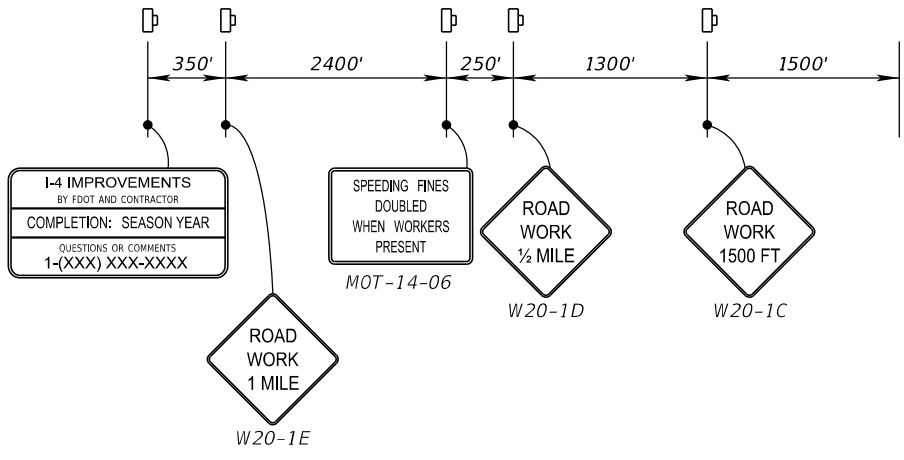
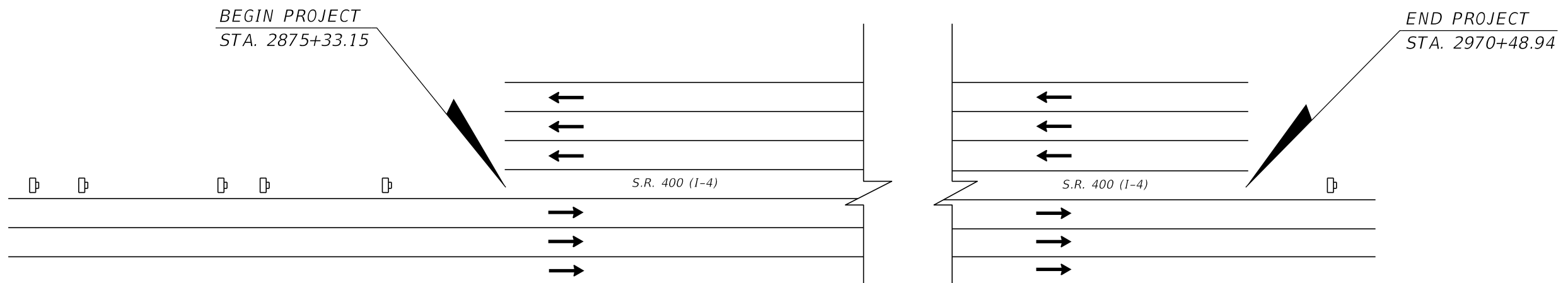


TCP TYPICAL SECTION - PHASE 1 (DURING LANE CLOSURES)

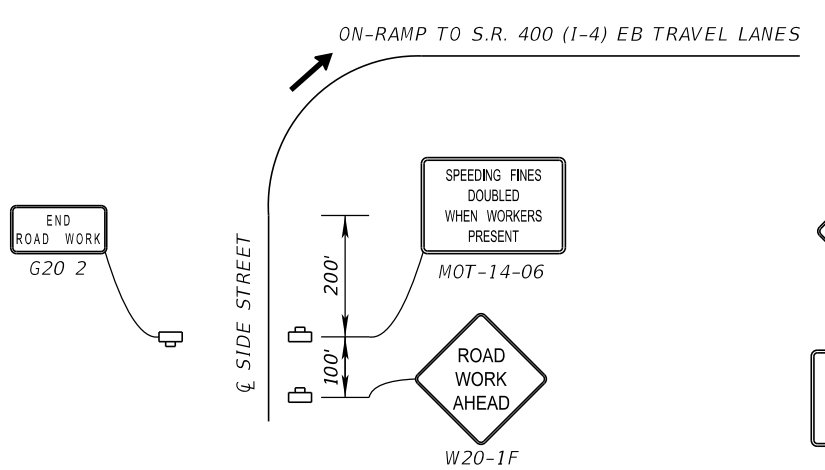
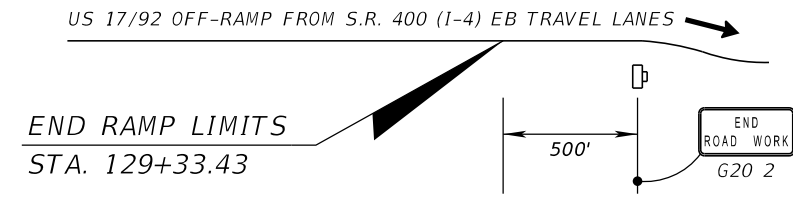


TCP TYPICAL SECTION - PHASE 2 (DURING LANE CLOSURES)

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TEMPORARY TRAFFIC CONTROL PLAN</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		26
						SR 400	SEMINOLE		439682-5-52-01



**ADVANCE WARNING SIGN DIAGRAM**  
NTS



**SIDE STREET SIGNING**  
NTS

**I-4 IMPROVEMENTS**  
BY FDOT AND CONTRACTOR  
COMPLETION: SEASON YEAR  
QUESTIONS OR COMMENTS  
1-(XXX) XXX-XXXX

**PROJECT INFORMATION SIGN**

LEGEND  
[Symbol] WORK ZONE SIGN

REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TEMPORARY TRAFFIC CONTROL PLAN</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	SEMINOLE		439682-5-52-01

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PCMS 1, 2, 3:

MESSAGE 1

I-4 EB  
RAMP  
CLOSED

MESSAGE 2

FOLLOW  
DETOUR

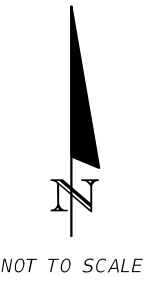
PCMS 4, 5:

MESSAGE 1

I-4 EB  
DETOUR

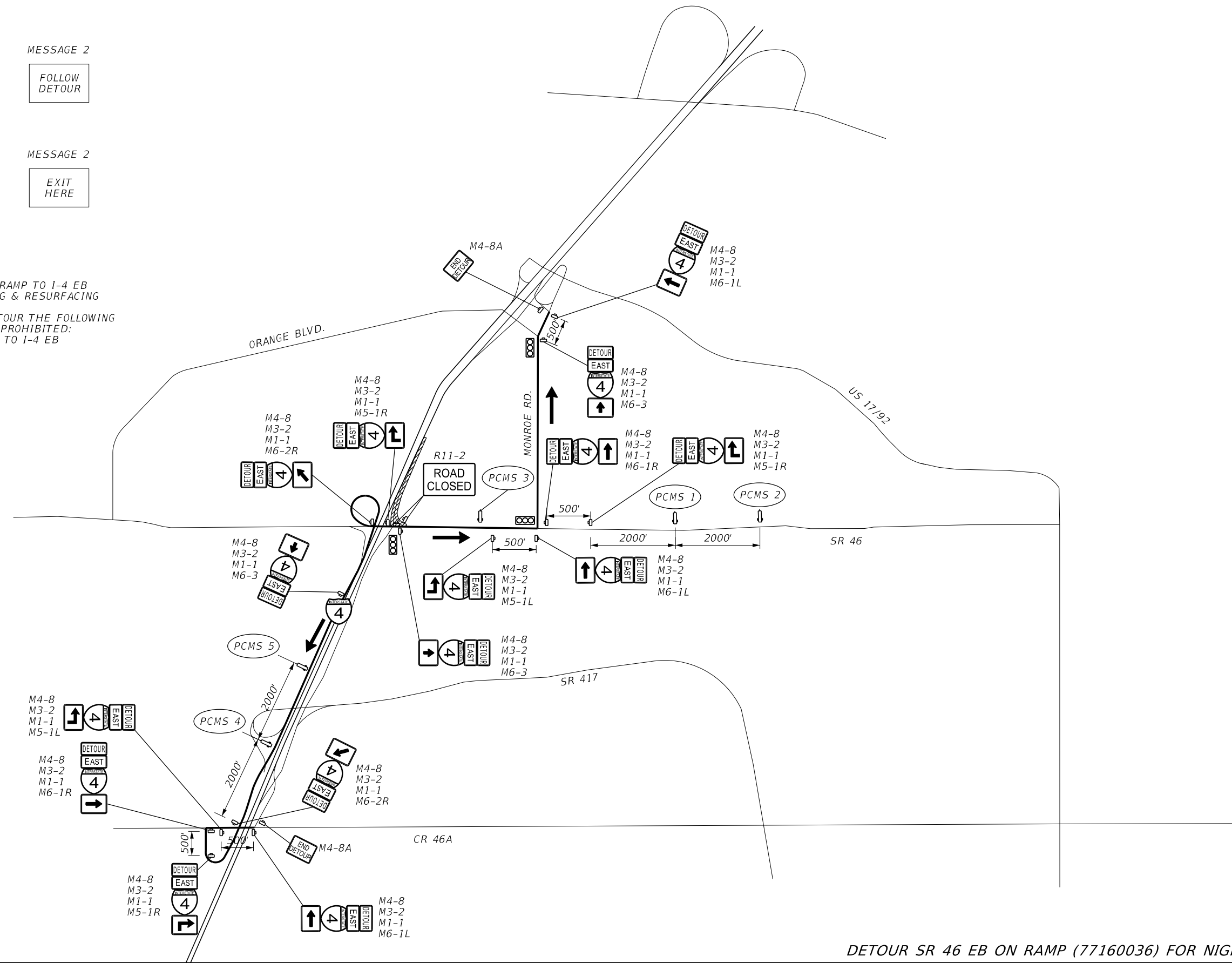
MESSAGE 2

EXIT  
HERE



NOTES:

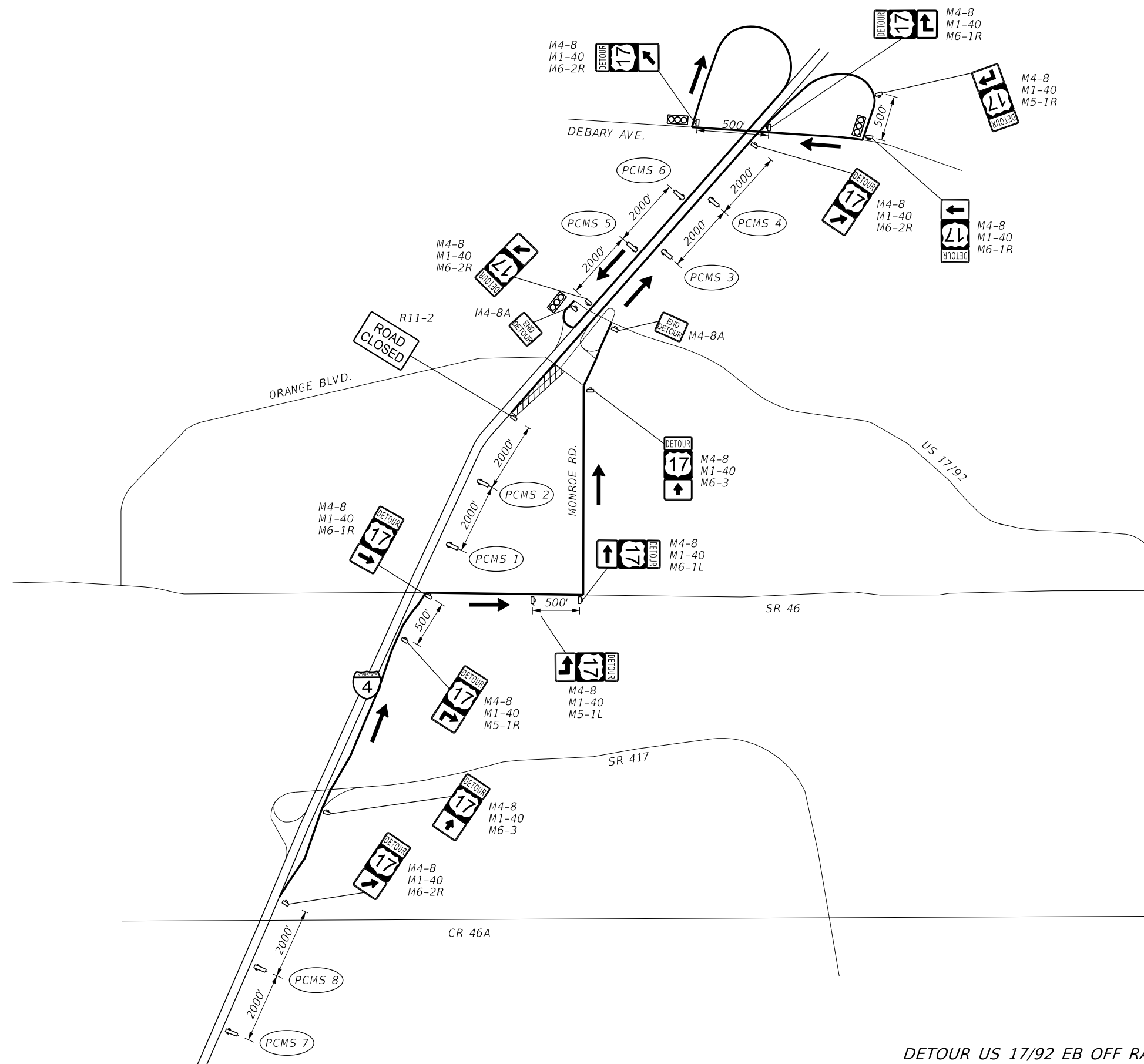
- 1.) CLOSE SR 46 ON RAMP TO I-4 EB FOR RAMP MILLING & RESURFACING
- 2.) DURING THIS DETOUR THE FOLLOWING MOVEMENTS ARE PROHIBITED:  
- SR 46 ON RAMP TO I-4 EB



DETOUR SR 46 EB ON RAMP (77160036) FOR NIGHT TIME CLOSURE

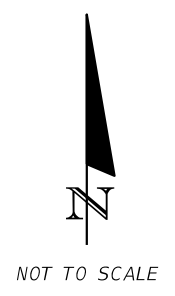
REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  28
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	SEMINOLE	439682-5-52-01	

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PCMS 1, 2:  
 MESSAGE 1: US 17/92 RAMP CLOSED  
 MESSAGE 2: FOLLOW DETOUR

PCMS 3, 4, 5, 6, 7, 8:  
 MESSAGE 1: US 17/92 DETOUR  
 MESSAGE 2: EXIT HERE



- NOTES:
- 1.) CLOSE EB I-4 OFF RAMP TO US 17/92 FOR RAMP MILLING & RESURFACING
  - 2.) DURING THIS DETOUR THE FOLLOWING MOVEMENTS ARE PROHIBITED:  
 - EB I-4 OFF RAMP TO US 17/92

DETOUR US 17/92 EB OFF RAMP (77160037) FOR NIGHT TIME CLOSURE

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	SEMINOLE	439682-5-52-01	29

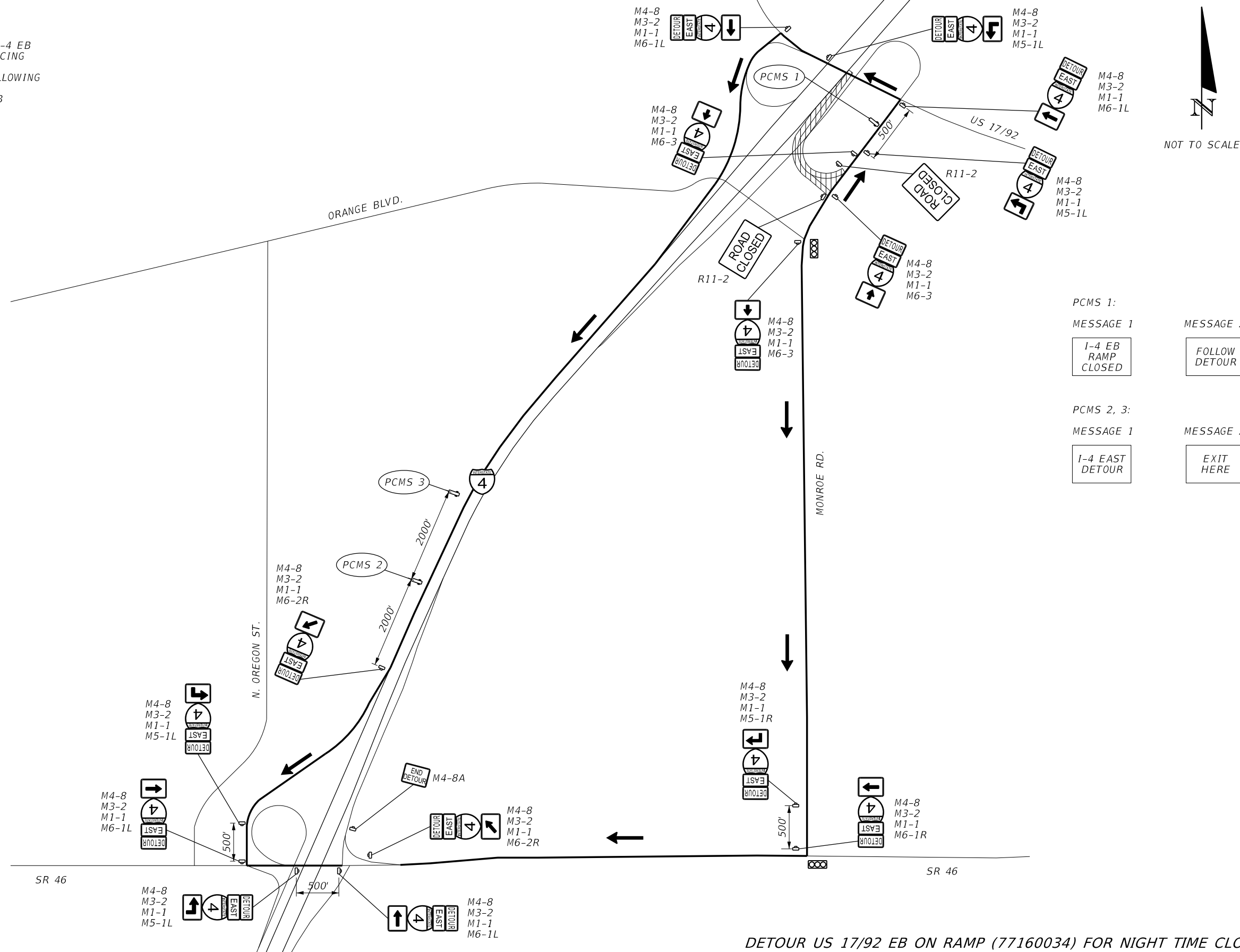
NATHAN BALO, P.E.  
 P.E. LICENSE NUMBER 70824  
 HORIZON ENGINEERING GROUP, INC.  
 2603 MAITLAND CENTER PKWY., SUITE B  
 MAITLAND, FL 32751  
 CERTIFICATE OF AUTHORIZATION 00009544

DETOURS

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NOTES:

- 1.) CLOSE US 17/92 ON RAMP TO I-4 EB FOR RAMP MILLING & RESURFACING
- 2.) DURING THIS DETOUR THE FOLLOWING MOVEMENTS ARE PROHIBITED:  
- US 17/92 ON RAMP TO I-4 EB

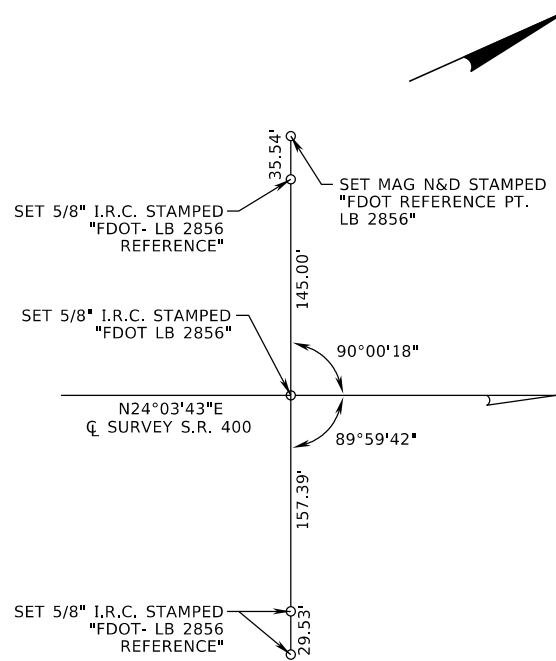


DETOUR US 17/92 EB ON RAMP (77160034) FOR NIGHT TIME CLOSURE

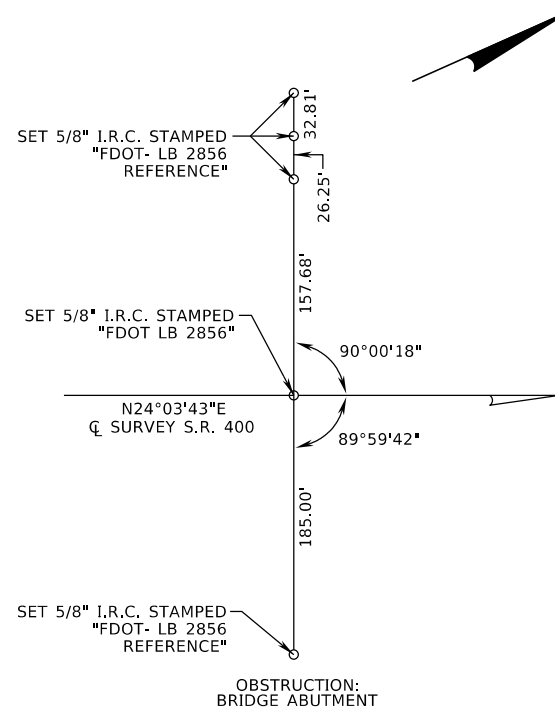
REVISIONS				NATHAN BALO, P.E. P.E. LICENSE NUMBER 70824 HORIZON ENGINEERING GROUP, INC. 2603 MAITLAND CENTER PKWY., SUITE B MAITLAND, FL 32751 CERTIFICATE OF AUTHORIZATION 00009544	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  30
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	SEMINOLE	439682-5-52-01	

DETOURS

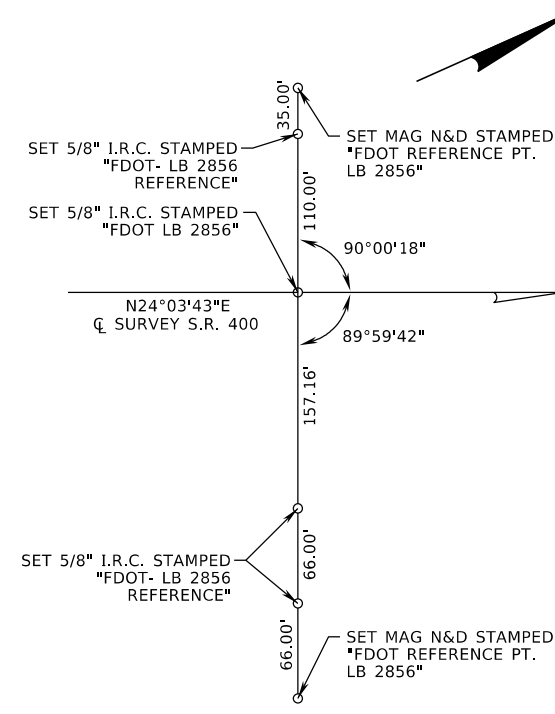
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



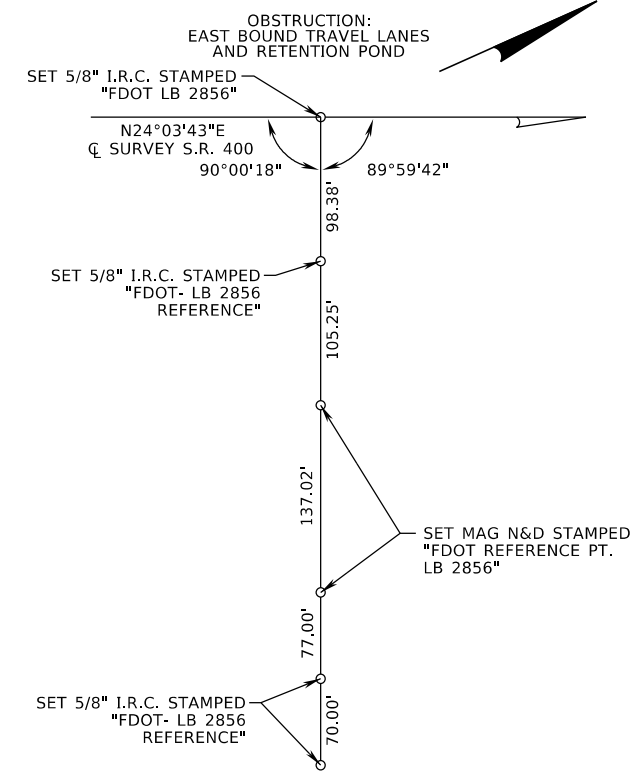
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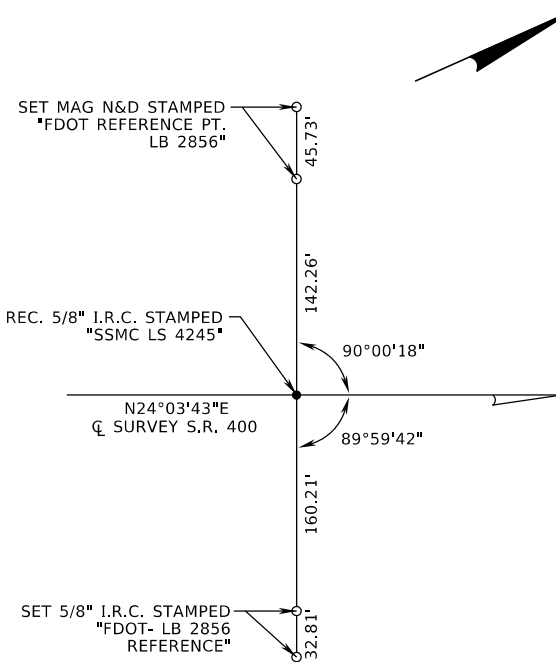
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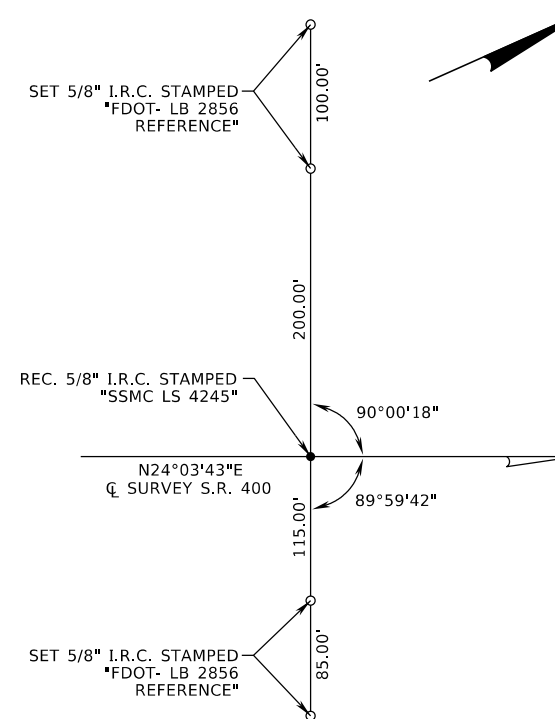
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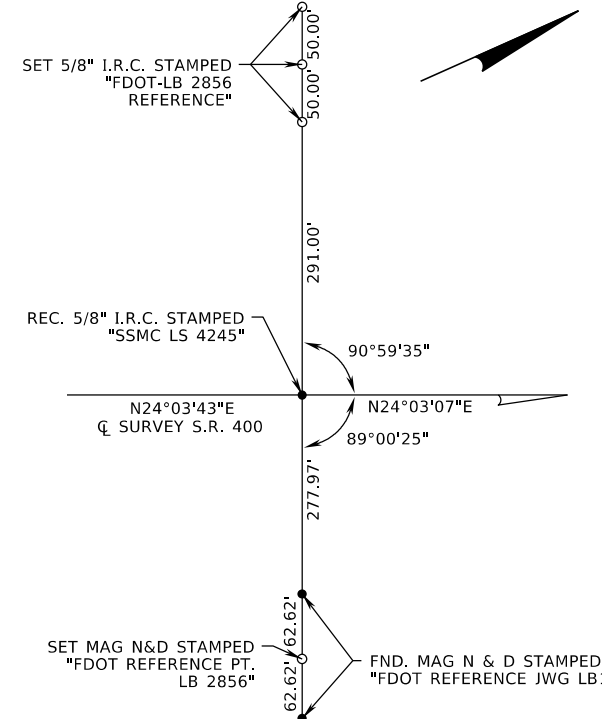
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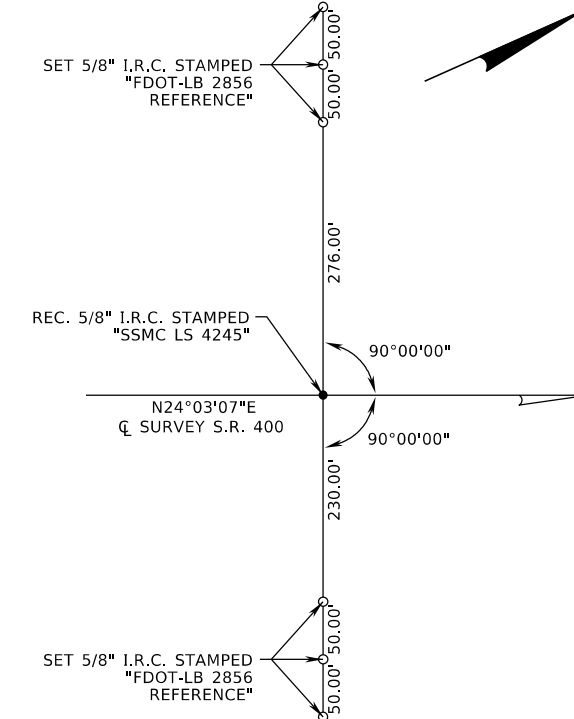
P.O.T. STA. 2826+80.05



P.O.T. STA. 2839+92.39



P.I. STA. 2850+62.34  
Δ = 00°00'36" LT.  
(NO CURVE)

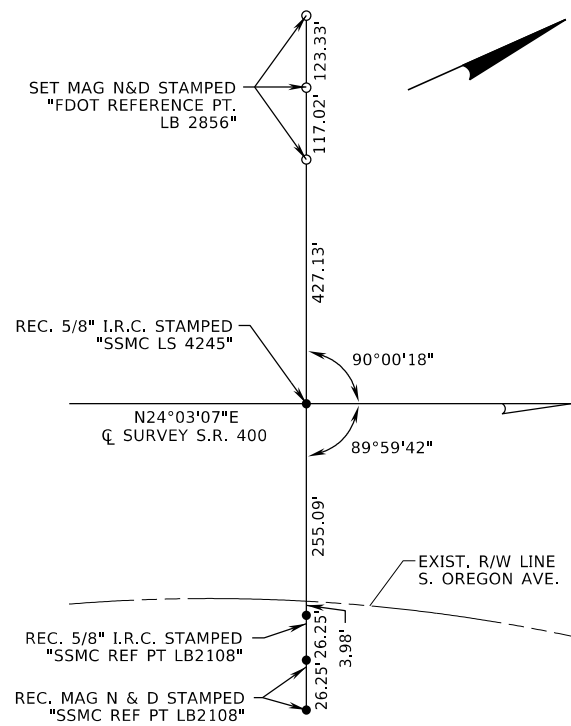


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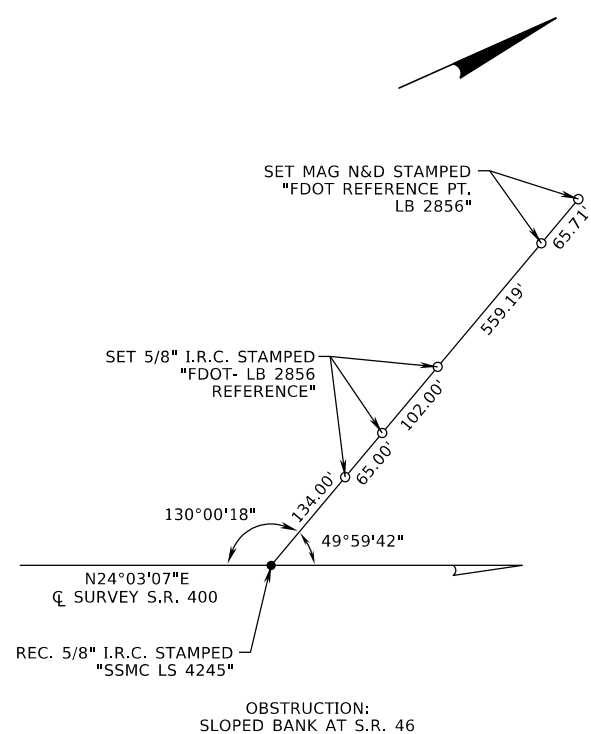
REVISIONS				SOUTHEASTERN SURVEYING AND MAPPING CORP. 6500 ALL AMERICAN BLVD. ORLANDO, FLORIDA 32810-4520 Phone: 407-292-8580 CERTIFICATE OF AUTHORIZATION: 00002108 JAMES L. PETERSEN, P.E. NO. 04791	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NETWORK CONTROL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	SEMINOLE		439682-5-52-01

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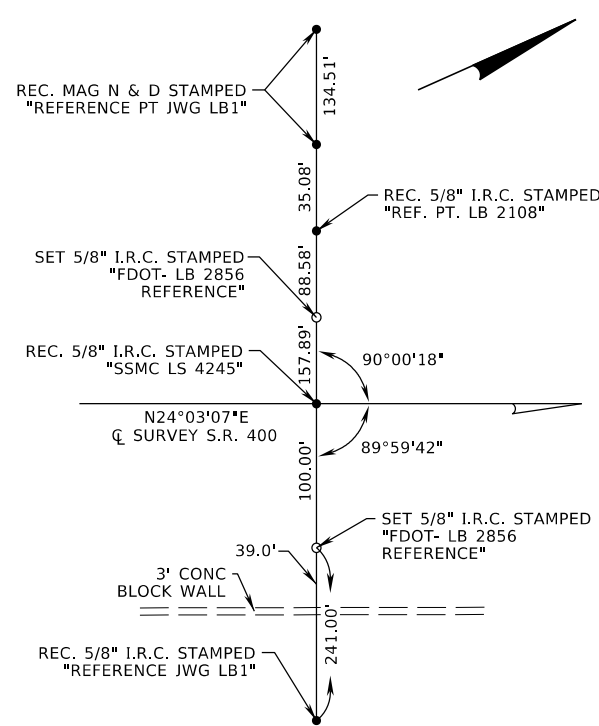




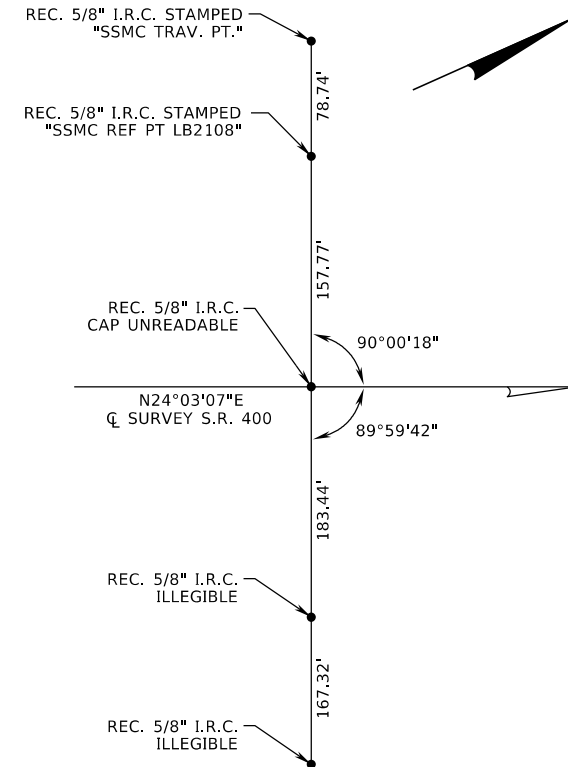
P.O.T. STA. 2866+17.05



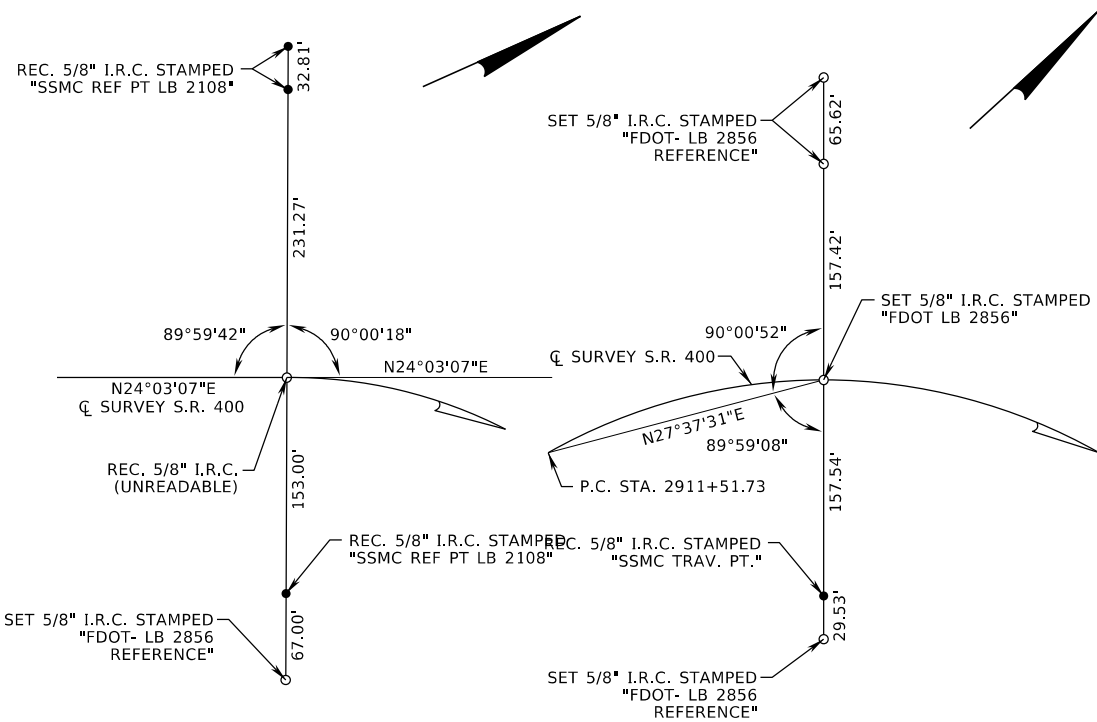
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P.O.T. STA. 2892+41.72

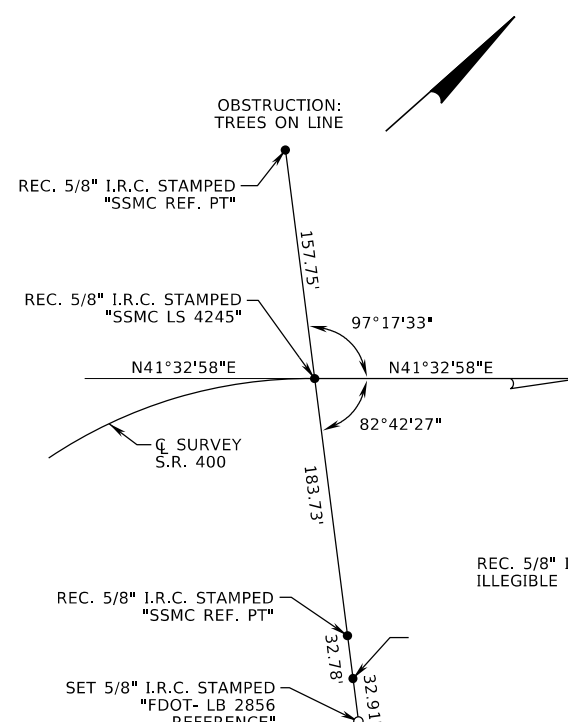


P.O.T. STA. 2905+54.05

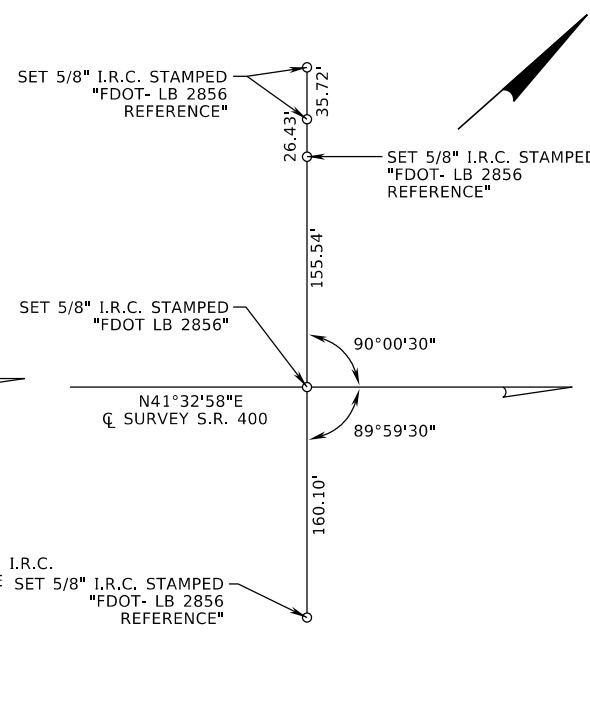


P.C. STA. 2911+51.73

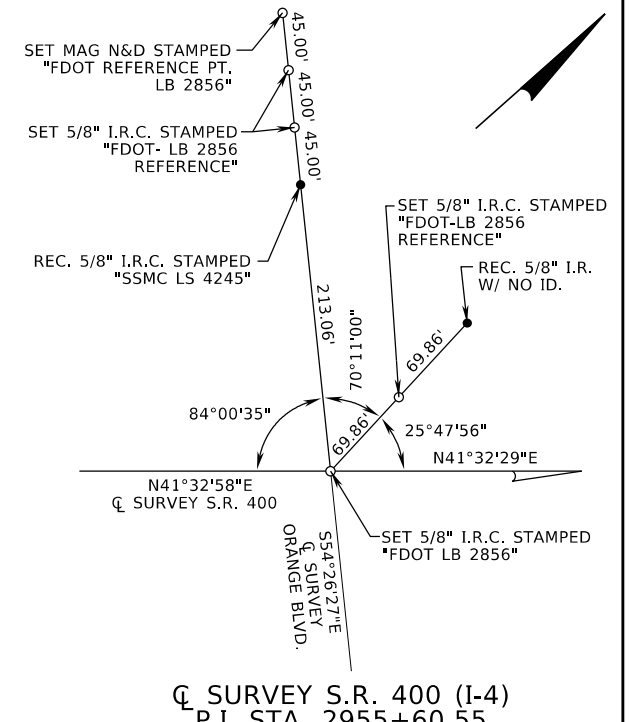
P.O.C. STA. 2918+66.37



P.T. STA. 2929+01.49



P.O.T. STA. 2931+78.76



☐ SURVEY S.R. 400 (I-4)  
P.I. STA. 2955+60.55  
Δ = 00°00'29" LT. =  
☐ SURVEY ORANGE BLVD.  
P.O.T. STA. 30+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SOUTHEASTERN SURVEYING AND MAPPING CORP.  
6500 ALL AMERICAN BLVD.  
ORLANDO, FLORIDA 32810-4520  
Phone: 407-292-8580  
CERTIFICATE OF AUTHORIZATION: 00002108  
JAMES L. PETERSEN, P.E. NO. 04791

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	SEMINOLE	439682-5-52-01

**PROJECT NETWORK CONTROL**

SHEET NO.
CTL-2

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