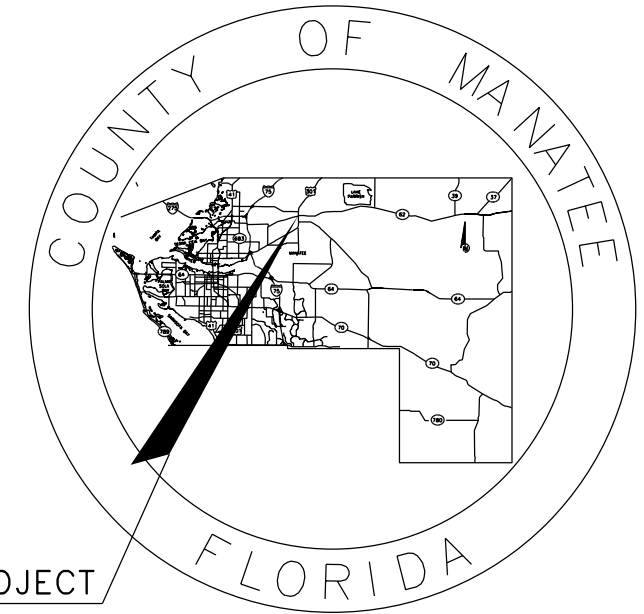


STATE OF FLORIDA COUNTY OF MANATEE



PLANS OF PROPOSED ERIE RD. AND SR 62 IMPROVEMENTS PARRISH, FLORIDA

MC PROJECT No. 850-6094060
FDOT JPA 445308-1-58-01
FDOT MILE POST 11.175

LOCATION OF PROJECT

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	DESCRIPTION
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3 TO S-4	TABULATION OF QUANTITIES
S-5	GENERAL NOTES
S-6	PROJECT LAYOUT
S-7 TO S-19	SIGNING AND PAVEMENT MARKING PLAN
S-20 TO S-21	GUIDE SIGN WORKSHEET
S-22 TO S-24	SIGN CROSS SECTIONS



BEGIN SIGNING AND
PAVEMENT MARKINGS
STA. 102+26.00

END SIGNING AND
PAVEMENT MARKINGS
STA. 133+43.00

NGVD 29 DATUM

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PLANS PREPARED BY:

HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609-2548
(813) 282-2300
VENDOR NO. VF-470680568

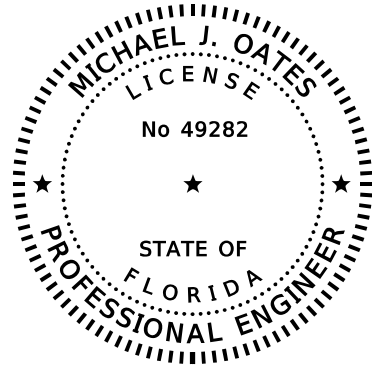


SIGNING AND PAVEMENT MARKING PLANS
PROFESSIONAL OF RECORD: MICHAEL J. OATES, P.E.

FLORIDA P.E. # 49282

SHEET NO.

S-1



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL



PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

HDR ENGINEERING, INC.
4830 W. KENNEDY BLVD., SUITE 400
TAMPA, FL 33609-2548
MICHAEL J. OATES, PE NO. 49282

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

SIGNING AND PAVEMENT MARKING PLANS



SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3 TO S-4	TABULATION OF QUANTITIES
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S-6	PROJECT LAYOUT
S-7 TO S-19	SIGNING AND PAVEMENT MARKING PLAN
S-20 TO S-21	GUIDE SIGN WORKSHEET
S-22 TO S-24	SIGN CROSS SECTIONS

				SCALE	AS NOTED			 HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE	10/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	MICHAEL J. OATES	SIGNATURE SHEET	SHEET NO.	
				DESIGNED BY	MO				PROJECT NO.	850-6094060		FL. LICENSE NO.	49282			S-2
				DRAWN BY	GS											
				CHECKED BY	IR											
No.	REVISIONS			DATE	BY											

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			S-7		S-8		S-9		S-10		S-11		S-12		S-13		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2		10		4		1		3		3			23				
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS																		
700-1-50	SINGLE POST SIGN, RELOCATE	AS						1								1				
700-1-60	SINGLE POST SIGN, REMOVE	AS			1			4								5				
700-1-74	SINGLE POST SIGN, F&I CUSTOM, 31+ SF	AS																		
700-2-14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS					2			1						3				
700-2-15	MULTI- POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS											1			1				
700-2-60	MULTI- POST SIGN, REMOVE	AS																		
700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA																		
705-10-1	OBJECT MARKER, TYPE 1	EA					3									3				
706-1-3	RETRO-REFLECTIVE PAVEMENT MARKERS (WHITE/RED)	EA			87		24									111				
	(YELLOW/YELLOW)		47		32		66		70		22					237				
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF																		
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																		
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.118		0.544		0.352		0.187							1.200				
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF			631											631				
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	24		163		19									206				
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM																		
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT, 6"	GM	0.026		0.002		0.031									0.059				
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL ONLY	EA																		
	RAILROAD CROSSING																			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA																		
	RIGHT				5		2									7				
	LEFT				6		3									9				
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.164		0.213		0.362		0.321		0.164					1.224				
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM																		
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	45				150		135							330				
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM			0.080											0.080				
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF			631											631				
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF	24		163		19									206				
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.026		0.002		0.031									0.059				
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL ONLY	EA																		
	RAILROAD CROSSING																			
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA																		
	RIGHT				5		2									7				
	LEFT				6		3									9				
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	45				150		135							330				
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM			0.080											0.080				
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF			540											540				
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA			3		1									4				
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA			3		1									4				
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.118		0.544		0.352		0.187							1.200				
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM																		
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.164		0.213		0.362		0.321		0.164					1.224				
711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM																		
711-17	THERMOPLASTIC, REMOVE NON-CONFLICTING ONLY	SF							5		55					60				

* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION: SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.



SCALE AS NOTED		 HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE 10/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES	SHEET NO. S-3
DESIGNED BY MO			PROJECT NO. 850-6094060		FL. LICENSE NO. 49282	
DRAWN BY GS						
CHECKED BY IR						
No.	REVISIONS	DATE	BY			

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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL	
			S-14		S-15		S-16		S-17		S-18		S-19		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS			1		3								8		31	
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS					2								2		2	
700-1-50	SINGLE POST SIGN, RELOCATE	AS					1								1		2	
700-1-60	SINGLE POST SIGN, REMOVE	AS			1		3							2	6		11	
700-1-74	SINGLE POST SIGN, F&I CUSTOM, 31+ SF	AS			1										1		1	
700-2-14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS															3	
700-2-15	MULTI- POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS								1					1		2	
700-2-60	MULTI- POST SIGN, REMOVE	AS			1									2	3		3	
700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA					1								1		1	
705-10-1	OBJECT MARKER, TYPE 1	EA															3	
706-1-3	RETRO-REFLECTIVE PAVEMENT MARKERS (WHITE/RED)	EA				31		14							45		541	
	(YELLOW/YELLOW)				40			80						28	148			
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF																
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																1
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM			0.166		0.105								0.271		1.471	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF					194								194		825	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF					87								87		293	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM			0.038		0.023								0.061		0.061	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT, 6"	GM															0.059	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL ONLY	EA												1	1		3	
	RAILROAD CROSSING						2								2			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS RIGHT	EA				2		1							3		24	
	LEFT					2		3							5			
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM			0.129		0.233					0.212			0.574		1.798	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM					0.030								0.030		0.030	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF			68		172								240		570	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM															0.080	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF					194								194		825	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF					87								87		293	
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM															0.059	
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL ONLY	EA												1	1		3	
	RAILROAD CROSSING						2								2			
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW RIGHT	EA				2		1							3		24	
	LEFT					2		3							5			
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF			68		172								240		570	
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM															0.080	
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF															540	
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA															4	
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA															4	
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM			0.166		0.105								0.271		1.471	
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM			0.038		0.023								0.061		0.061	
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM			0.129		0.233					0.212			0.574		1.798	
711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM					0.030								0.030		0.030	
711-17	THERMOPLASTIC, REMOVE NON-CONFLICTING ONLY	SF															60	

* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION: SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.



SCALE	AS NOTED	 HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE	10/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	MICHAEL J. OATES	TABULATION OF QUANTITIES (2)	SHEET NO.	S-4
DESIGNED BY	MO		PROJECT NO.	850-6094060		FL. LICENSE NO.	49282			
DRAWN BY	GS									
CHECKED BY	IR									
No.	REVISIONS	DATE	BY							

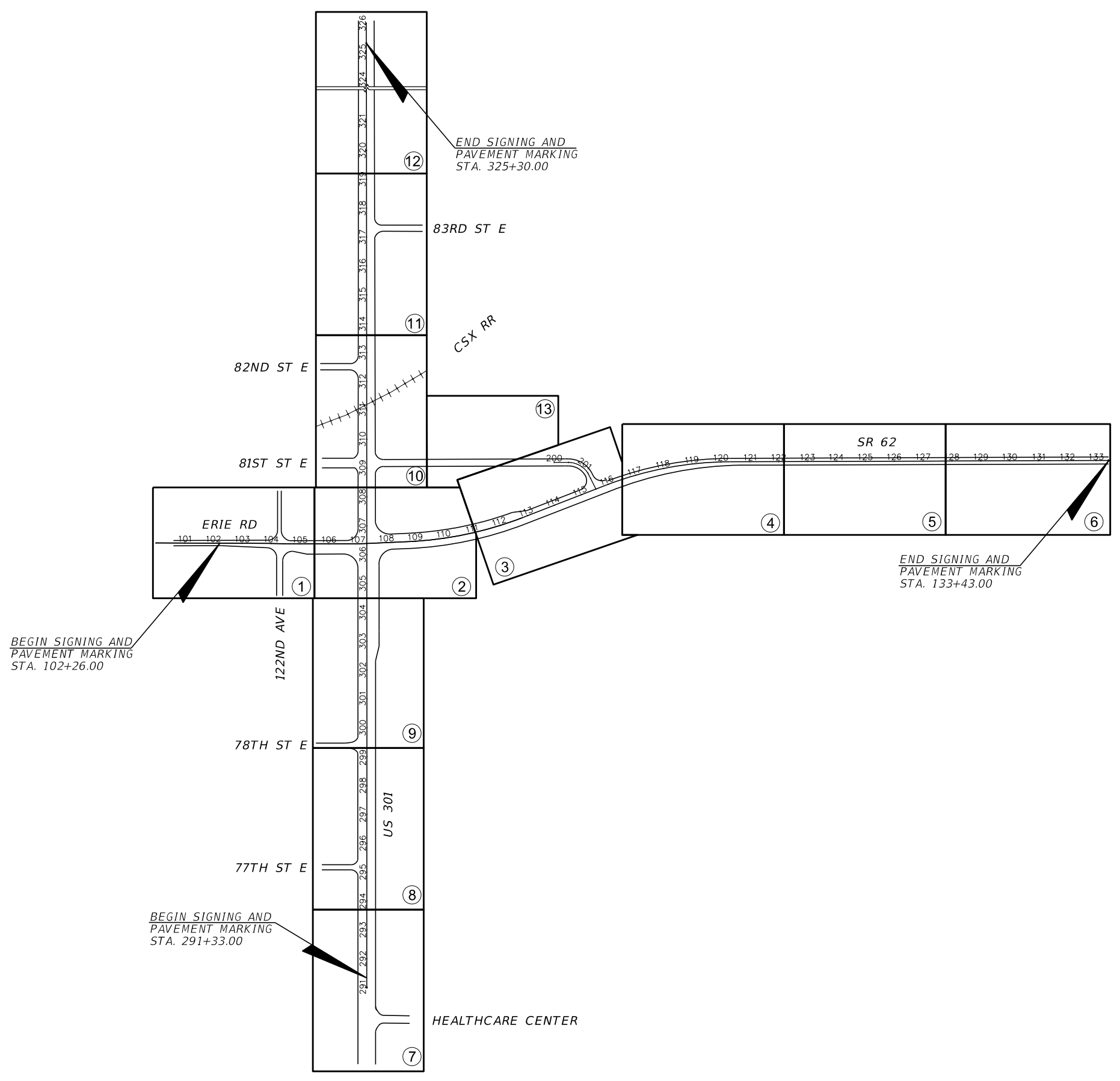
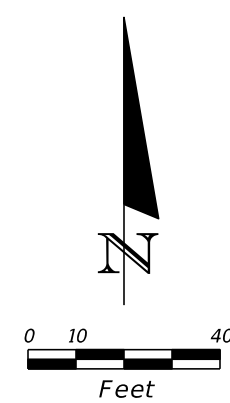
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SIGNING AND PAVEMENT MARKING GENERAL NOTES:

1. ALL FLORIDA ROUTE MARKERS MUST CONFORM TO F.D.O.T. STANDARD PLANS INDEX NO. 700-102.
2. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE F.D.O.T. STANDARD PLANS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
4. REFER TO F.D.O.T. STANDARD PLANS INDEX NO. 706-001 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
5. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
6. THE SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
7. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE REFLECTED IN THE PAY ITEM NO. 102-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
8. CONTRACTOR SHALL USE W-SHAPE STEEL POSTS FOR MUTLI-POST SIGNS. ALL COLUMNS (POSTS) FOR SINGLE COLUMN SIGNS SHALL BE ALUMINUM ROUND TUBE, UNLESS OTHERWISE INDICATED IN THE PLANS.
9. ANY EXISTING MULTI-POST SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
10. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO SIGN FOUNDATIONS AS DETERMINED BY THE CONTRACTOR, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE SIGN POST FOUNDATION.
11. UNLESS OTHERWISE NOTED ON PLAN SHEETS, ALL CROSSWALKS AT SIGNALIZED INTERSECTIONS SHALL BE TEN FEET (10') IN WIDTH, AND ACROSS SIDE STREETS SHALL BE SIX FEET (6') IN WIDTH. MEASUREMENTS SHALL BE FROM INSIDE TO INSIDE OF 12" STRIPES.
12. THE REMOVAL OF EXISTING DELINEATOR POSTS SHALL BE INCLUDED IN THE PAYMENT FOR CLEARING AND GRUBBING, PAY ITEM NO. 110-2-1.
13. ALL TURN LANE MARKINGS SHALL BE PLACED AS SHOWN IN STANDARD PLANS INDEX NO. 711-001, SHEET NO. 11.

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

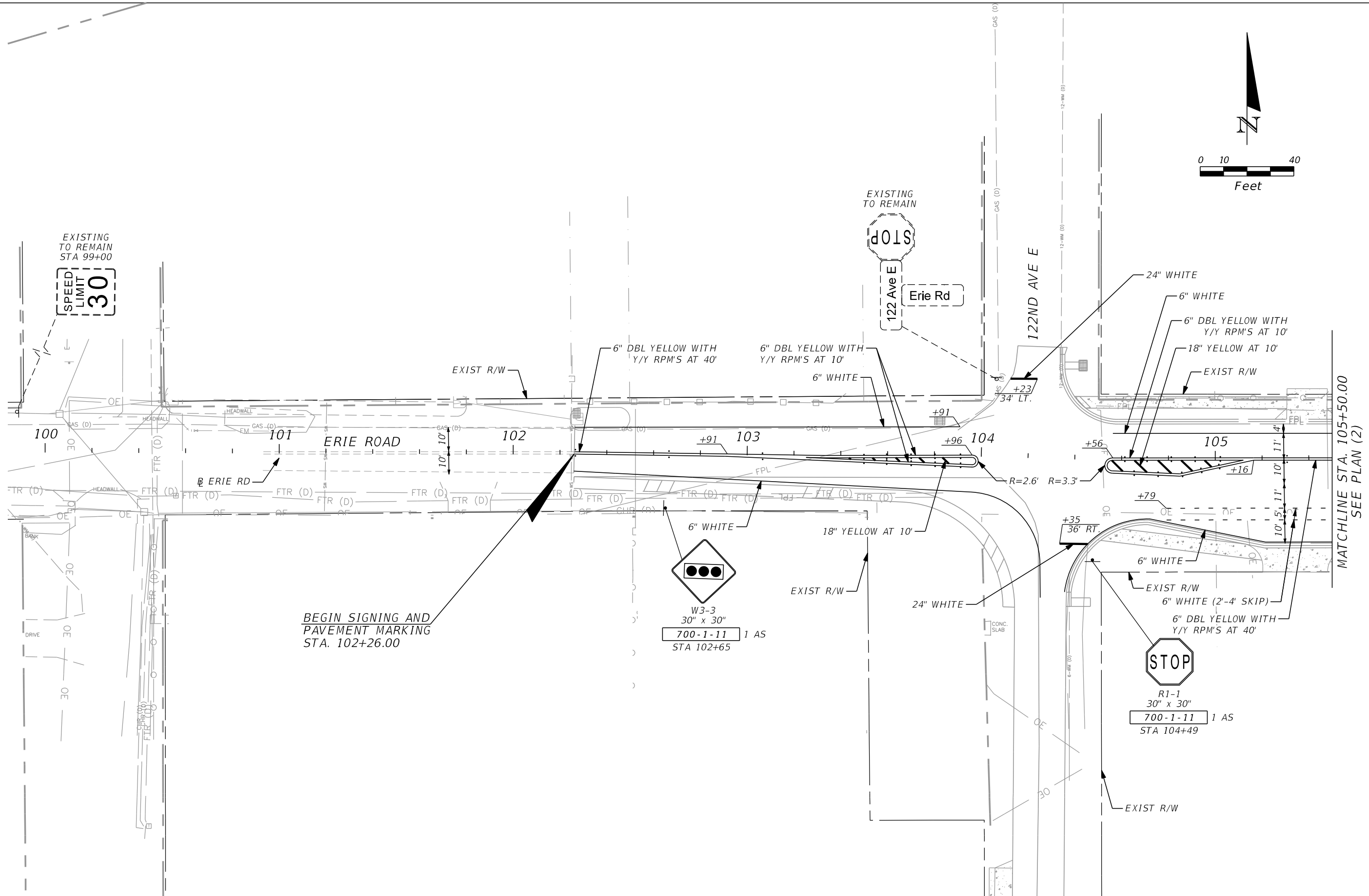
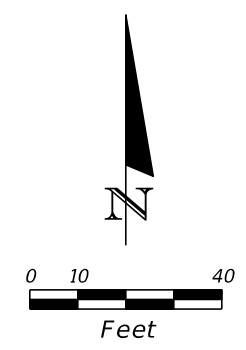
				SCALE AS NOTED	 HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE 10/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES	GENERAL NOTES	SHEET NO.		
				DESIGNED BY MO		PROJECT NO. 850-6094060		FL. LICENSE NO. 49282		S-5		
				DRAWN BY GS								
				CHECKED BY IR								
No.	REVISIONS			DATE	BY							



X PLAN PAGE NUMBER

				SCALE	AS NOTED			DATE	10/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	MICHAEL J. OATES	SHEET NO.
				DESIGNED BY	MO			PROJECT NO.	850-6094060		FL. LICENSE NO.	49282	
				DRAWN BY	GS						PROJECT LAYOUT		
				CHECKED BY	IR								
No.	REVISIONS	DATE	BY										

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BEGIN SIGNING AND PAVEMENT MARKING STA. 102+26.00

MATCHLINE STA. 105+50.00 SEE PLAN (2)

SCALE	AS NOTED		
DESIGNED BY	MO		
DRAWN BY	GS		
CHECKED BY	IR		
No.	REVISIONS	DATE	BY

HDR
 HDR Engineering, Inc.
 4830 W Kennedy Blvd,
 Suite 400
 Tampa, FL 33609-2548

DATE
10/2021
 PROJECT NO.
850-6094060



MANATEE COUNTY
PUBLIC WORKS

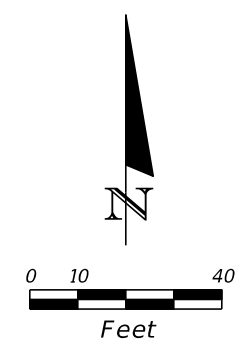
DESIGN ENGINEER
MICHAEL J. OATES
 FL. LICENSE NO.
49282

SIGNING AND PAVEMENT MARKING PLAN (1)

SHEET NO.
S-7

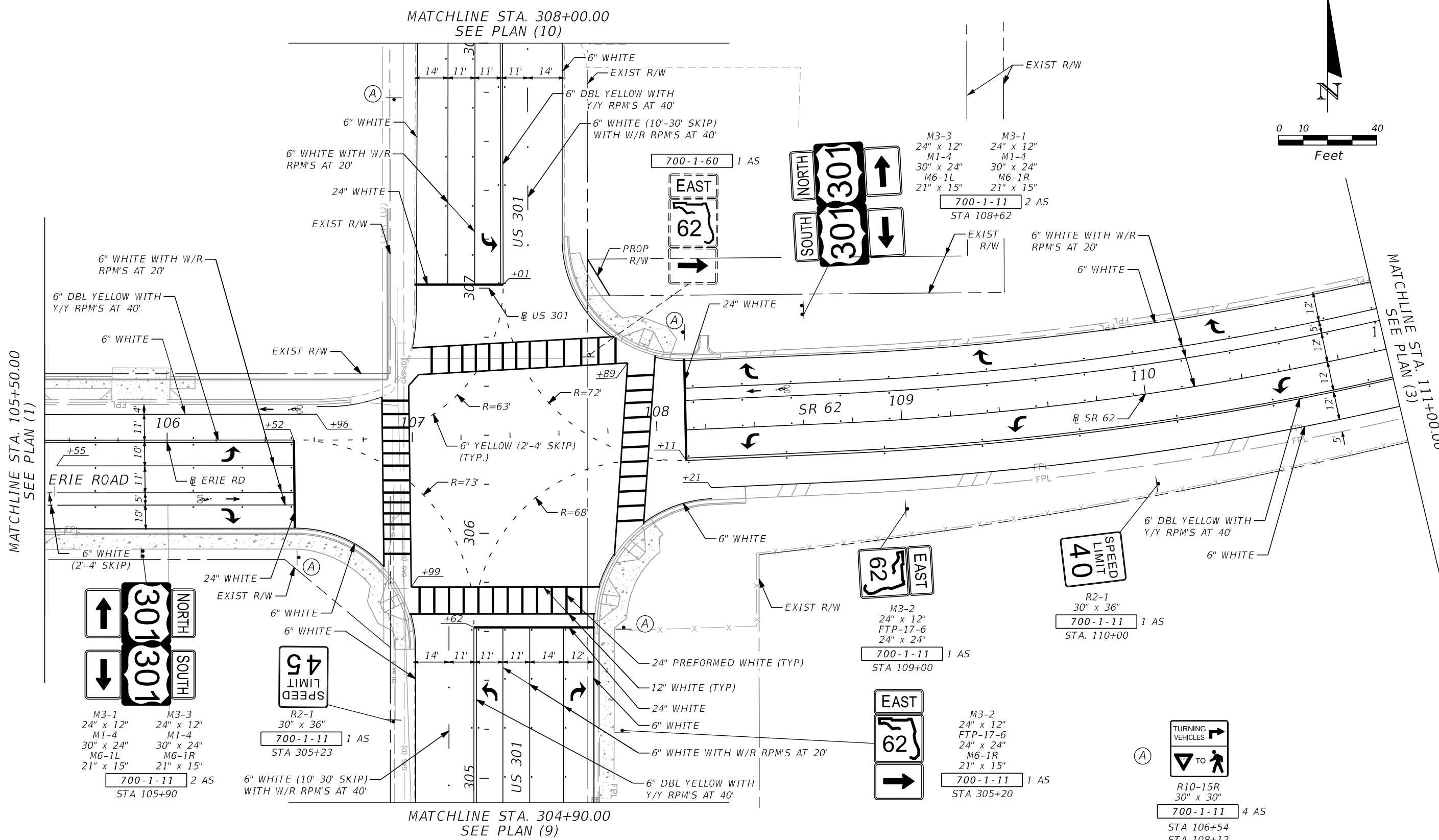
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE STA. 308+00.00
SEE PLAN (10)



MATCHLINE STA. 105+50.00
SEE PLAN (1)

MATCHLINE STA. 111+00.00
SEE PLAN (3)



MATCHLINE STA. 304+90.00
SEE PLAN (9)

SCALE	AS NOTED		
DESIGNED BY	MO		
DRAWN BY	GS		
CHECKED BY	IR		
No.	REVISIONS	DATE	BY

HDR
HDR Engineering, Inc.
4830 W. Kennedy Blvd.
Suite 400
Tampa, FL 33609-2548

DATE
10/2021
PROJECT NO.
850-6094060

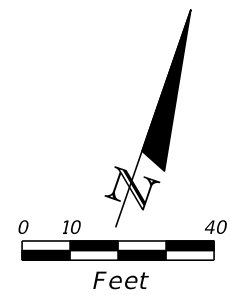
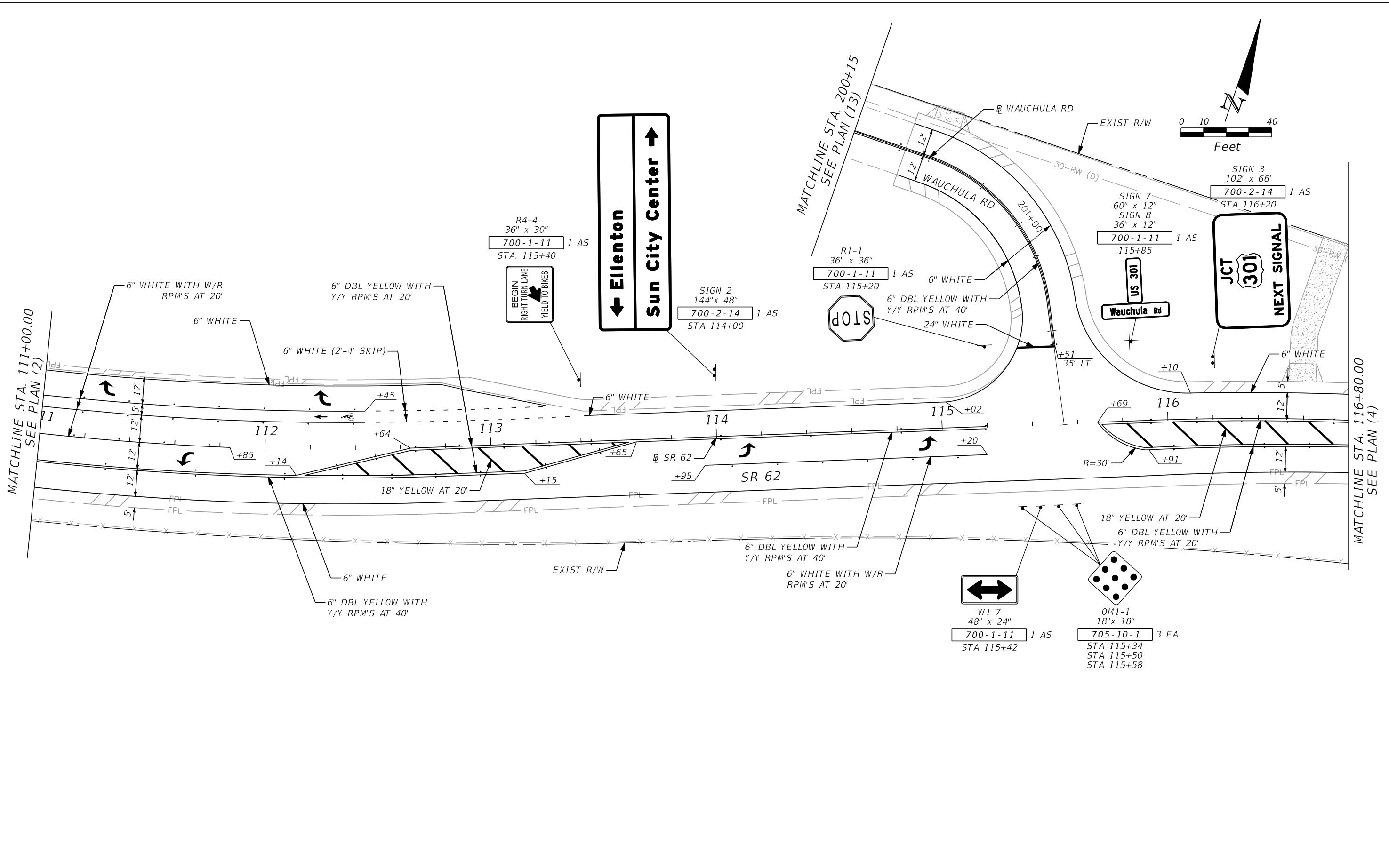
Manatee County
FLORIDA
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
MICHAEL J. OATES
FL. LICENSE NO.
49282

**SIGNING AND PAVEMENT
MARKING PLAN (2)**

SHEET NO.
S-8

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



MATCHLINE STA. 111+00.00
SEE PLAN (2)

MATCHLINE STA. 116+80.00
SEE PLAN (4)

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

SCALE	AS NOTED		
DESIGNED BY	MO		
DRAWN BY	GS		
CHECKED BY	IR		
No.	REVISIONS	DATE	BY



HDR Engineering, Inc.
4830 W Kennedy Blvd,
Suite 400
Tampa, FL 33609-2548

DATE
10/2021

PROJECT NO.
850-6094060



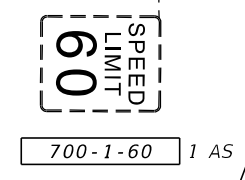
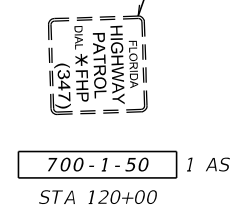
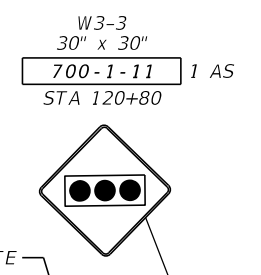
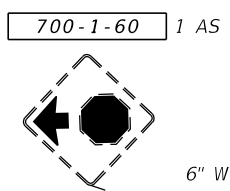
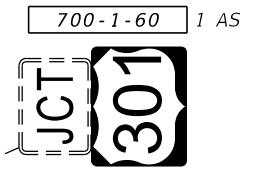
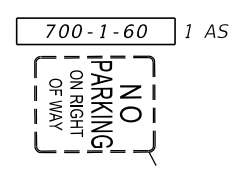
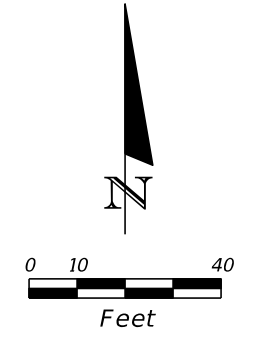
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
MICHAEL J. OATES

FL. LICENSE NO.
49282

**SIGNING AND PAVEMENT
MARKING PLAN (3)**

SHEET NO.
S-9

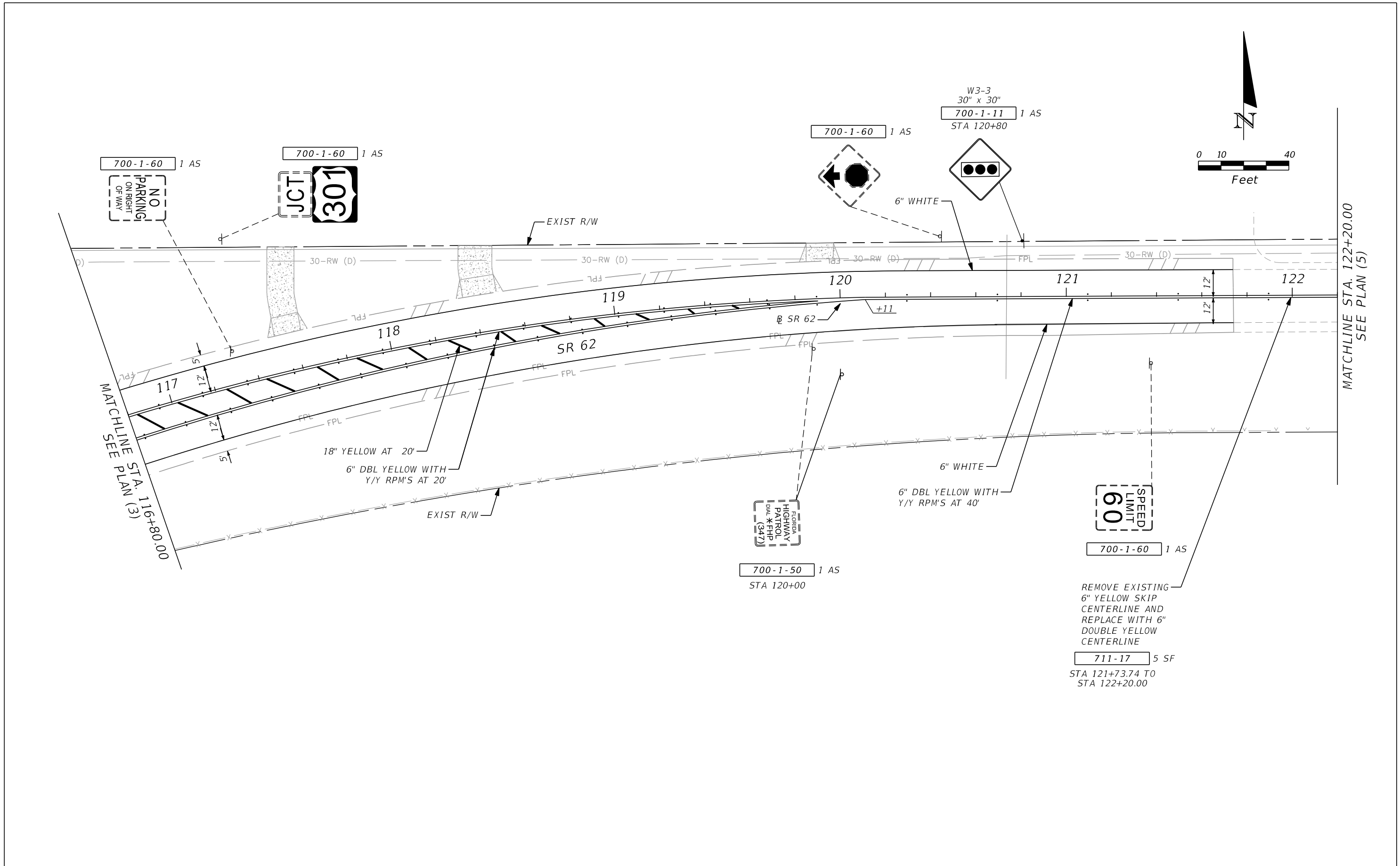


REMOVE EXISTING 6" YELLOW SKIP CENTERLINE AND REPLACE WITH 6" DOUBLE YELLOW CENTERLINE

711-17 5 SF
STA 121+73.74 TO STA 122+20.00

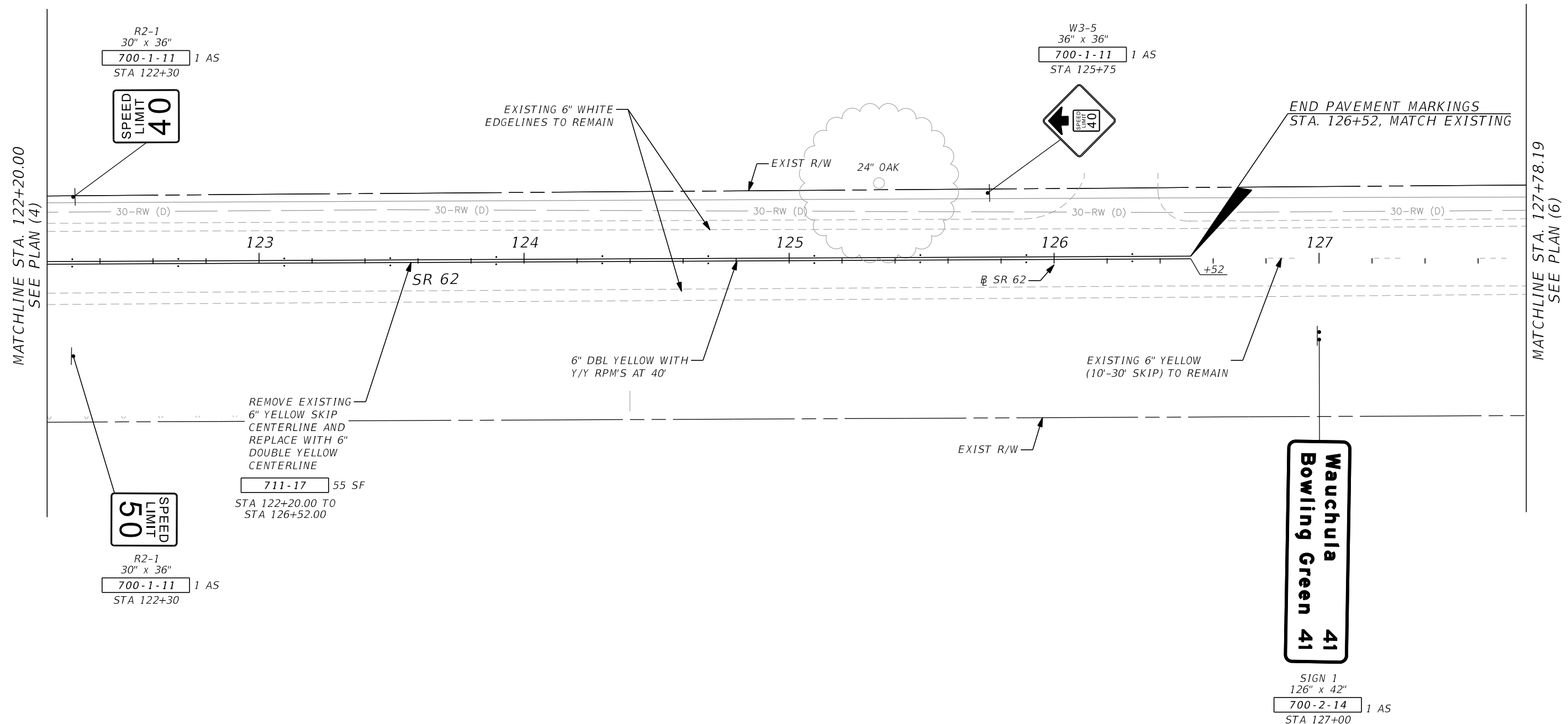
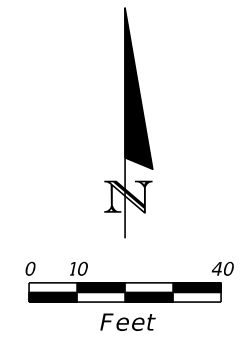
MATCHLINE STA. 116+80.00
SEE PLAN (3)

MATCHLINE STA. 122+20.00
SEE PLAN (5)



SCALE AS NOTED DESIGNED BY MO DRAWN BY GS CHECKED BY IR				HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE 10/2021	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES FL. LICENSE NO. 49282	SIGNING AND PAVEMENT MARKING PLAN (4)	SHEET NO. S-10
No. REVISIONS DATE BY					PROJECT NO. 850-6094060		PW\		

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No.	REVISIONS	DATE	BY
			IR


HDR
 HDR Engineering, Inc.
 4830 W Kennedy Blvd,
 Suite 400
 Tampa, FL 33609-2548

DATE
 10/2021
 PROJECT NO.
 850-6094060

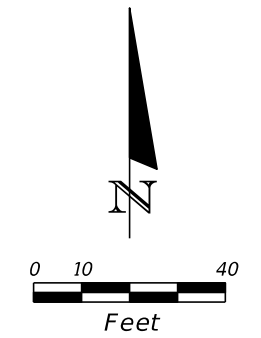

Manatee County
 FLORIDA
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
 MICHAEL J. OATES
 FL. LICENSE NO.
 49282

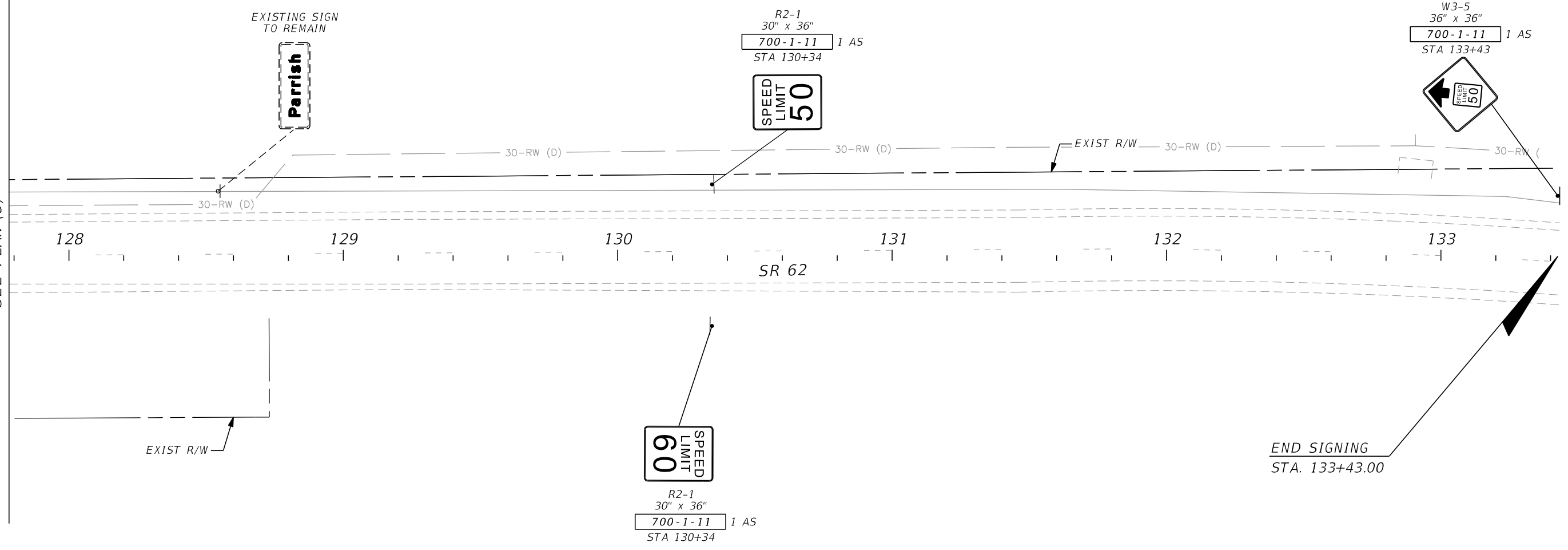
SIGNING AND PAVEMENT
MARKING PLAN (5)

SHEET NO.
 S-11

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



MATCHLINE STA. 127+78.19
SEE PLAN (5)



SCALE	AS NOTED		
DESIGNED BY	MO		
DRAWN BY	GS		
CHECKED BY	IR		
No.	REVISIONS	DATE	BY



HDR Engineering, Inc.
4830 W Kennedy Blvd,
Suite 400
Tampa, FL 33609-2548

DATE	10/2021
PROJECT NO.	850-6094060



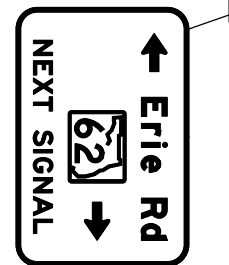
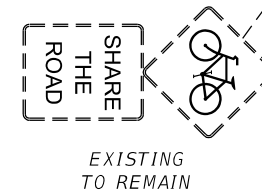
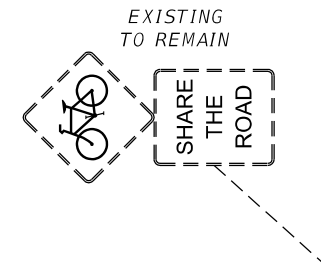
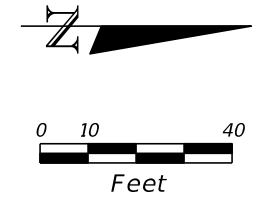
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	MICHAEL J. OATES
FL. LICENSE NO.	49282

**SIGNING AND PAVEMENT
MARKING PLAN (6)**

SHEET NO.	S-12
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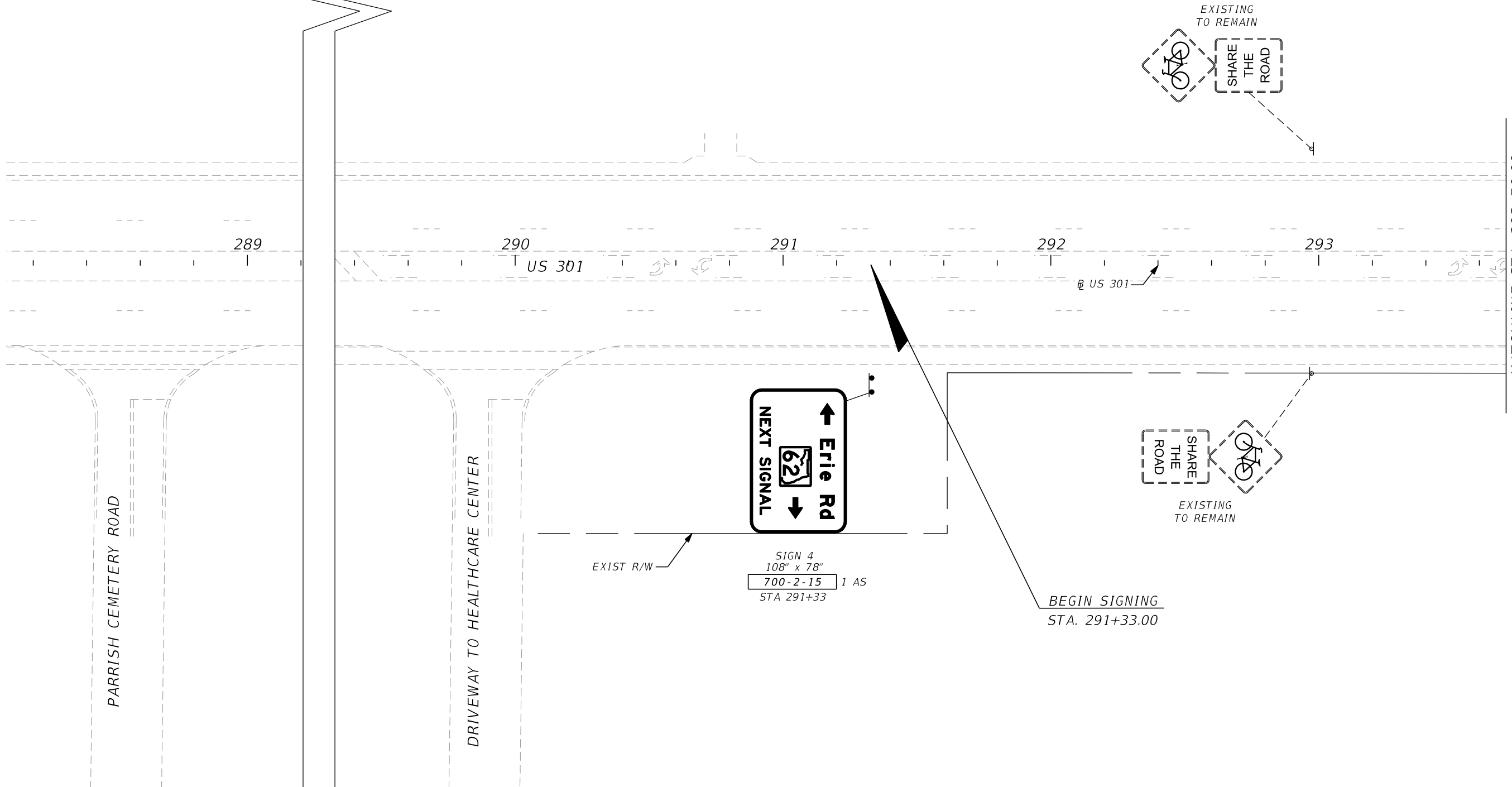
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SIGN 4
108" x 78"
700-2-15 1 AS
STA 291+33

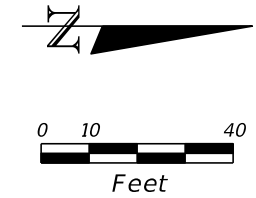
BEGIN SIGNING
STA. 291+33.00

MATCHLINE STA. 293+70.00
SEE PLAN (8)



SCALE AS NOTED DESIGNED BY MO DRAWN BY GS CHECKED BY IR				HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE 10/2021	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES FL. LICENSE NO. 49282	SIGNING AND PAVEMENT MARKING PLAN (7)	SHEET NO. S-13
No. REVISIONS DATE BY					PROJECT NO. 850-6094060		PW:\		

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77TH ST E

EXISTING TO REMAIN

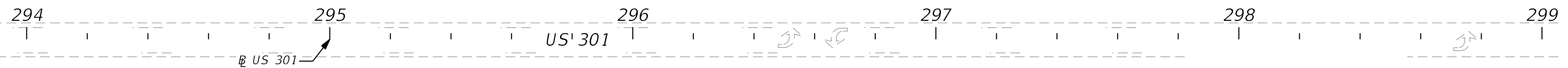


EXISTING TO REMAIN



MATCHLINE STA. 293+70.00
SEE PLAN (7)

MATCHLINE STA. 299+30.00
SEE PLAN (9)



			SCALE	AS NOTED
			DESIGNED BY	MO
			DRAWN BY	GS
			CHECKED BY	IR
No.	REVISIONS	DATE	BY	



HDR Engineering, Inc.
4830 W Kennedy Blvd,
Suite 400
Tampa, FL 33609-2548

DATE	10/2021
PROJECT NO.	850-6094060



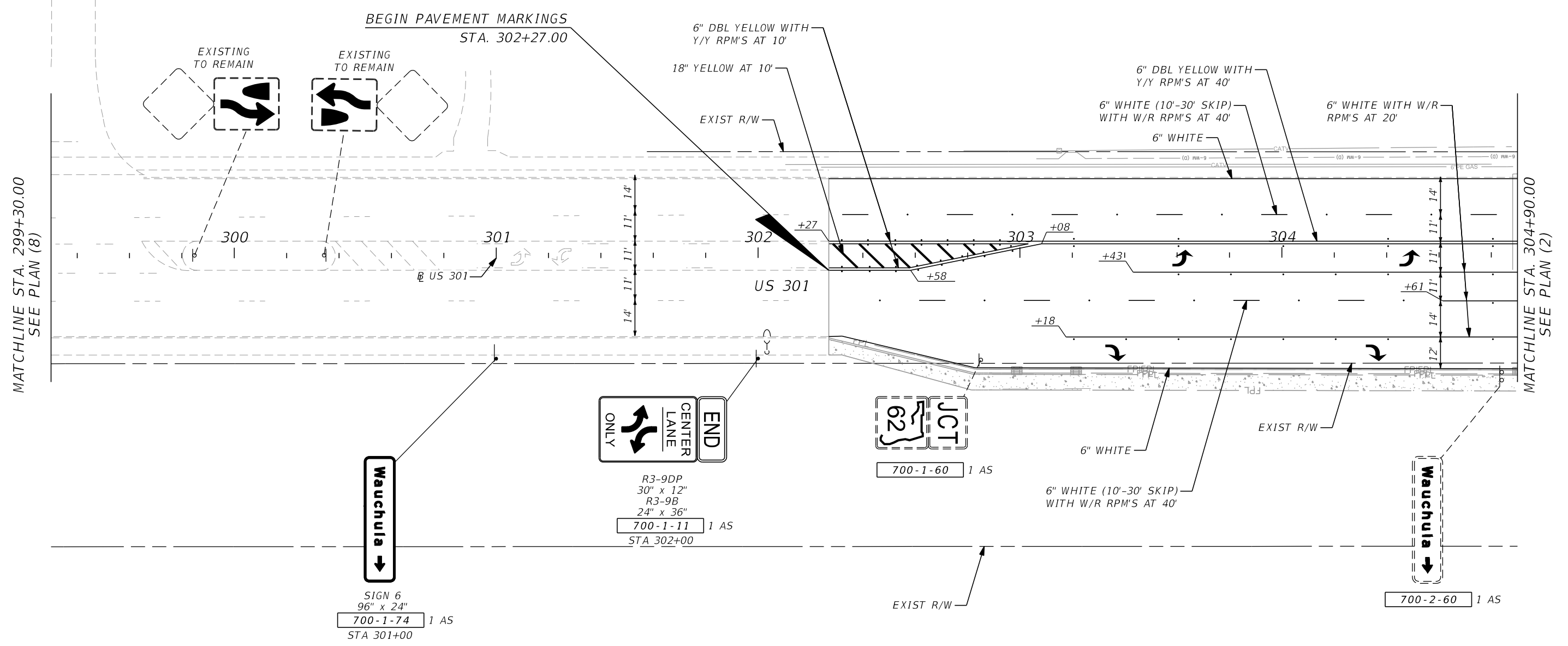
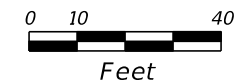
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	MICHAEL J. OATES
FL. LICENSE NO.	49282

**SIGNING AND PAVEMENT
MARKING PLAN (8)**

SHEET NO.	S-14
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MATCHLINE STA. 299+30.00
SEE PLAN (8)

MATCHLINE STA. 304+90.00
SEE PLAN (2)

700-1-74 1 AS
SIGN 6
96" x 24"
STA 301+00

700-1-11 1 AS
R3-9DP
30" x 12"
R3-9B
24" x 36"
STA 302+00

700-1-60 1 AS
JCT
62

700-2-60 1 AS
Wauchula

No.	REVISIONS	DATE	BY
			IR

HDR
HDR Engineering, Inc.
4830 W Kennedy Blvd,
Suite 400
Tampa, FL 33609-2548

DATE
10/2021
PROJECT NO.
850-6094060

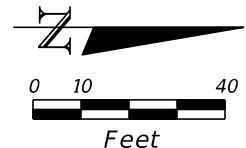
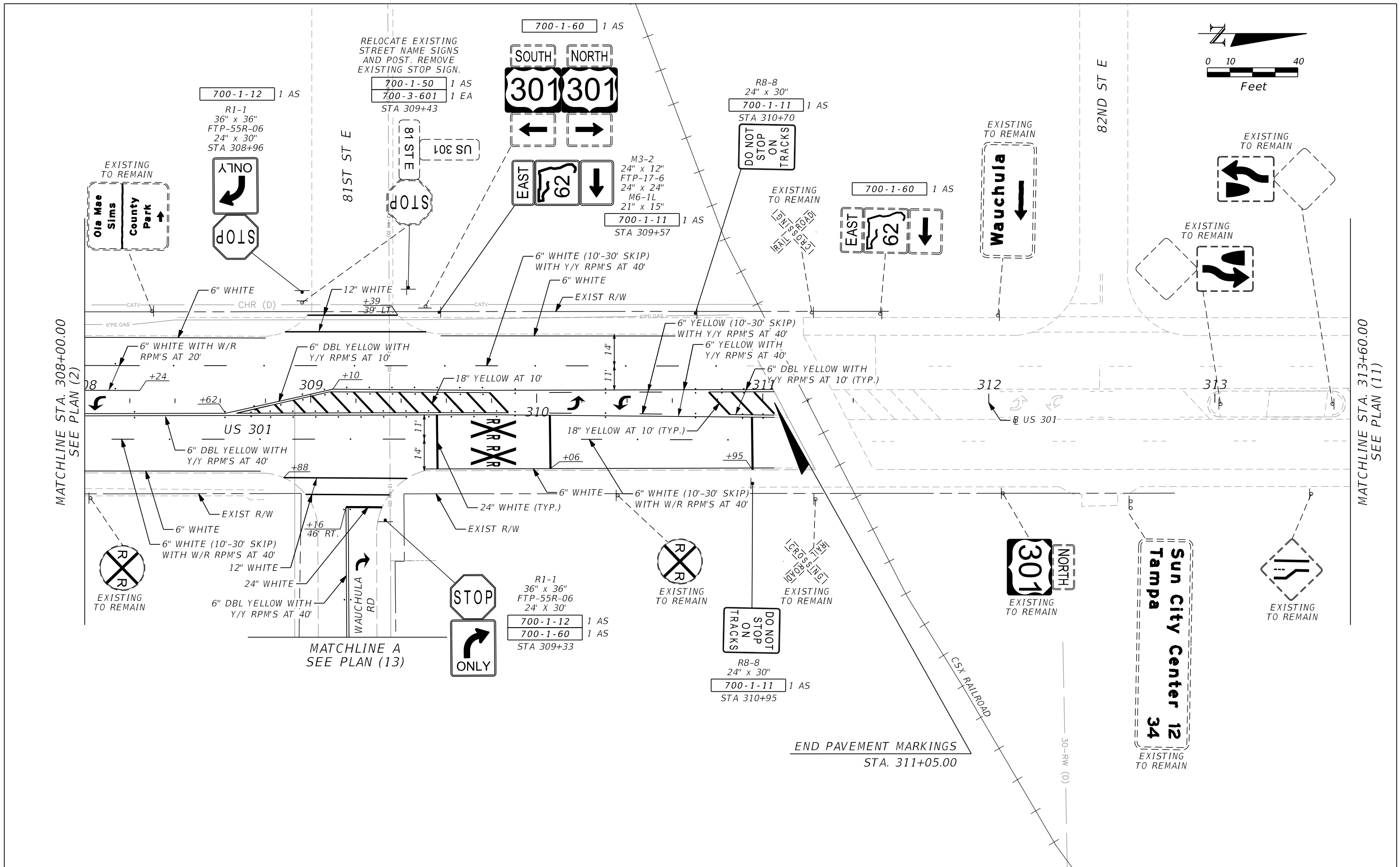
Manatee County
FLORIDA
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
MICHAEL J. OATES
FL. LICENSE NO.
49282

**SIGNING AND PAVEMENT
MARKING PLAN (9)**

SHEET NO.
S-15

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MATCHLINE STA. 308+00.00
SEE PLAN (2)

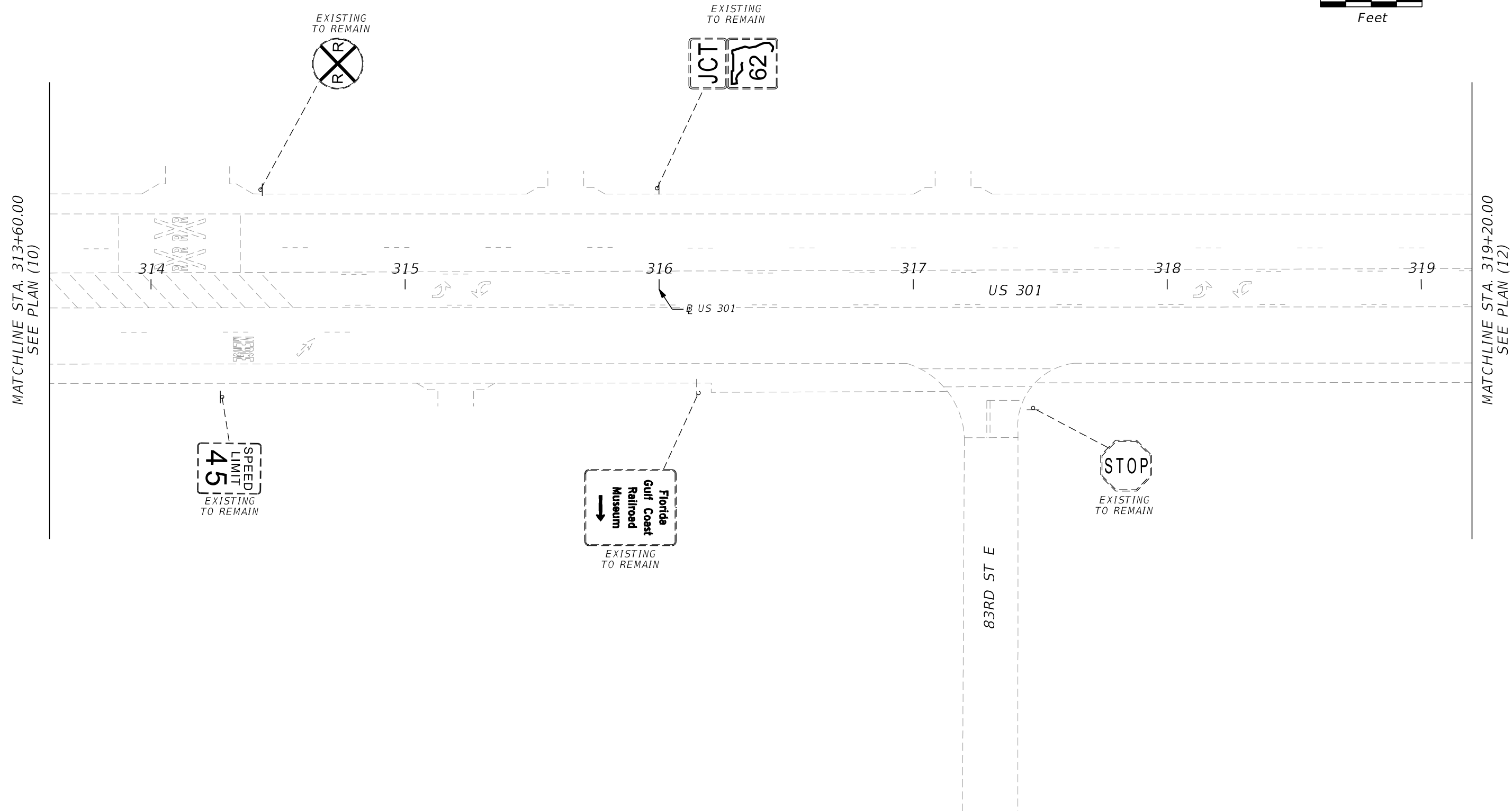
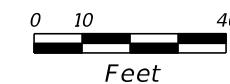
MATCHLINE STA. 313+60.00
SEE PLAN (11)

MATCHLINE A
SEE PLAN (13)

END PAVEMENT MARKINGS
STA. 311+05.00

No.	REVISIONS			DATE	BY	SCALE AS NOTED DESIGNED BY MO DRAWN BY GS CHECKED BY IR	 HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548	DATE	10/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	MICHAEL J. OATES	SIGNING AND PAVEMENT MARKING PLAN (10)	SHEET NO.	S-16
	PROJECT NO.	850-6094060	FL. LICENSE NO.	49282											

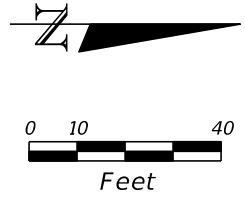
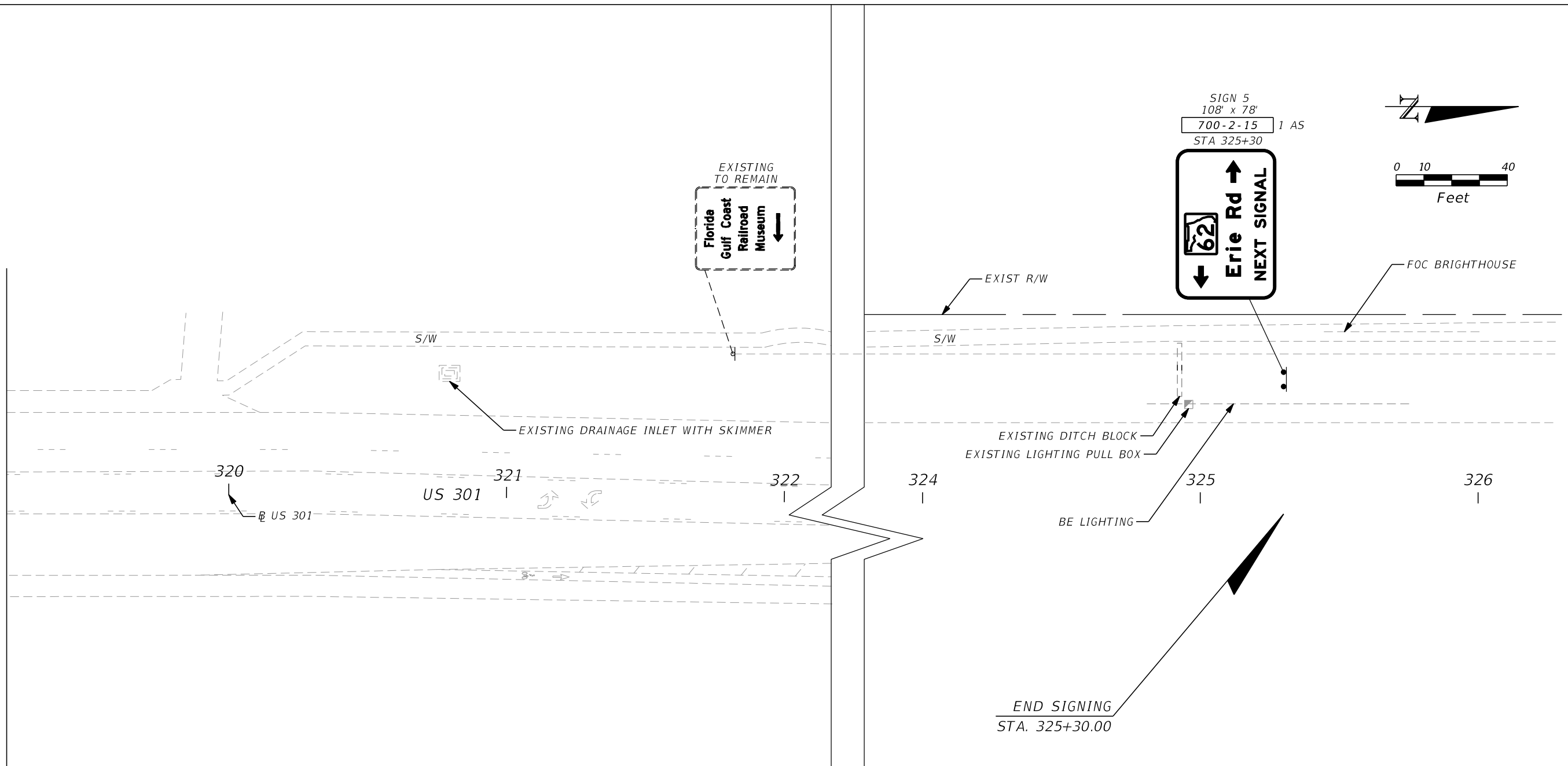
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





				SCALE	AS NOTED				HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548		DATE	10/2021		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER	MICHAEL J. OATES	SIGNING AND PAVEMENT MARKING PLAN (II)	SHEET NO.	S-17
				DESIGNED BY	MO				PROJECT NO.	850-6094060	FL. LICENSE NO.	49282								
				DRAWN BY	GS															
				CHECKED BY	IR															
No.	REVISIONS			DATE	BY															

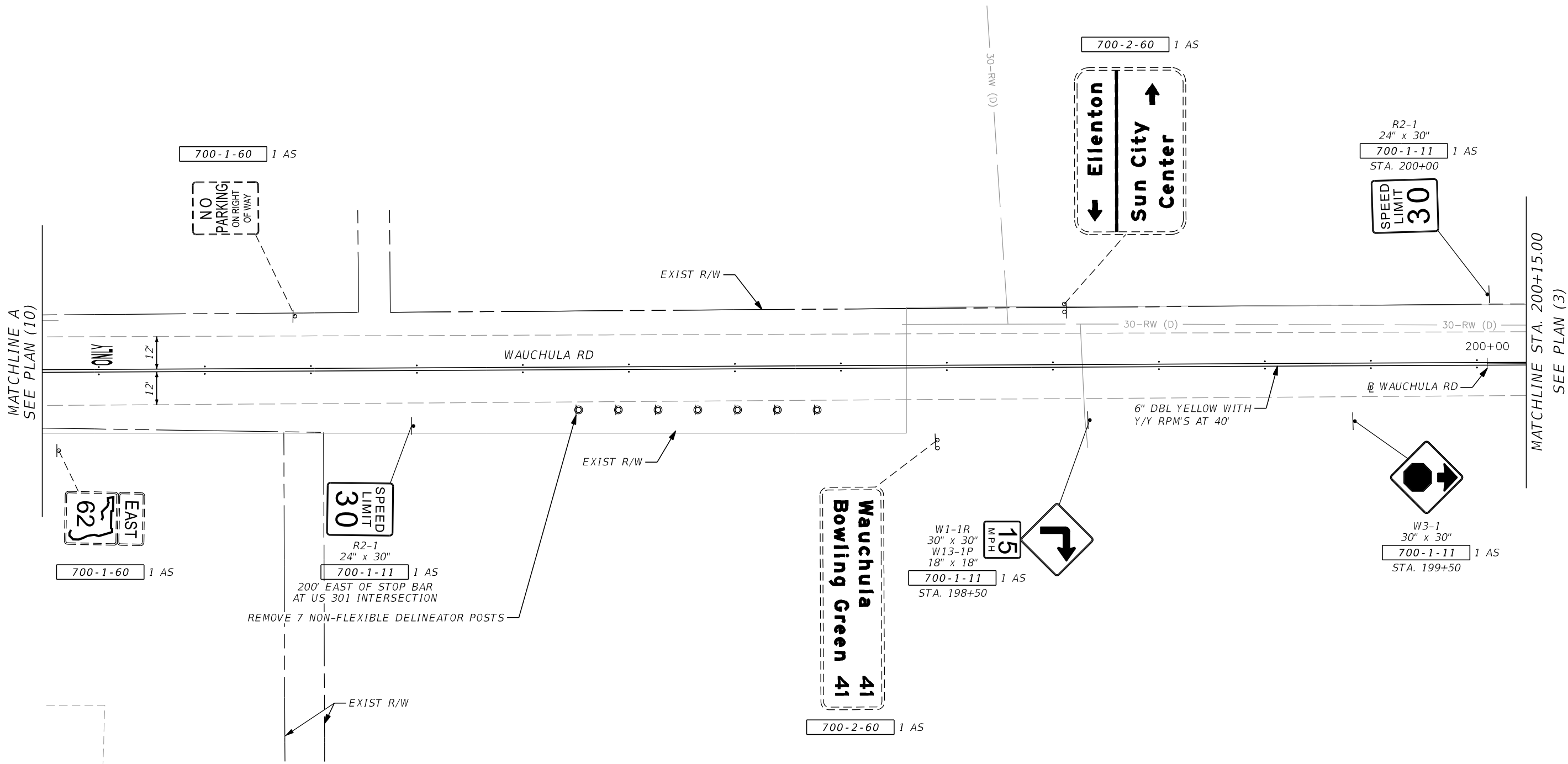
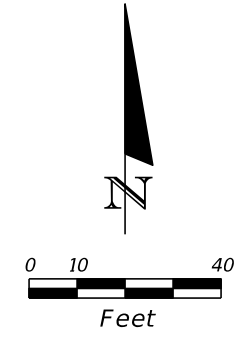
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE STA. 319+20.00
SEE PLAN (11)



				SCALE AS NOTED	 HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE 10/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES	SIGNING AND PAVEMENT MARKING PLAN (12)	SHEET NO.
				DESIGNED BY MO		PROJECT NO. 850-6094060		FL. LICENSE NO. 49282		S-18
				DRAWN BY GS						
No.	REVISIONS	DATE	BY	CHECKED BY IR						

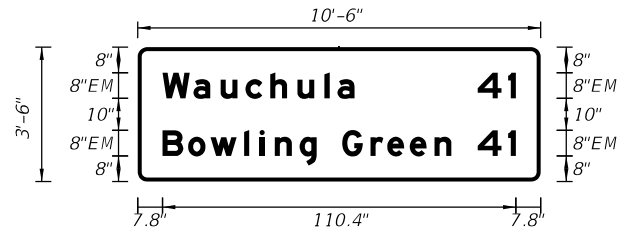
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE		AS NOTED			HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE	10/2021	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	MICHAEL J. OATES	SIGNING AND PAVEMENT MARKING PLAN (13)	SHEET NO.	S-19
DESIGNED BY		MO				PROJECT NO.	850-6094060		FL. LICENSE NO.	49282			
DRAWN BY		GS											
CHECKED BY		IR											
No.	REVISIONS		DATE	BY									

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

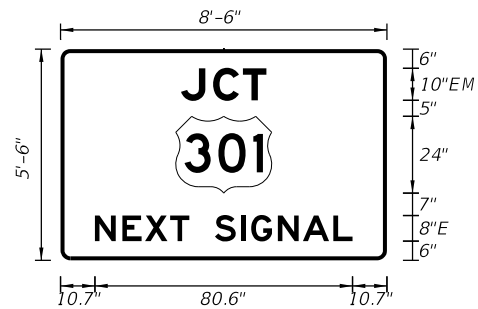
SIGN NAME		Sign 1	QTY	1	SIGN NO.	127+00	STATION(S)
PANEL		BORDER					
WIDTH	10'-6"	WIDTH	1.25"				
HEIGHT	3'-6"	RADII	3"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE STEEL	AVERAGE LENGTH			
1	2		W 6x12	11.12'			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY	W	a	u	c	h	u	l	a	L											
SPACE	7.8	9.7	8.5	7.8	7.8	8.5	8.5	4.1	5.3	58.2	60									
COPY	4	1	L																	
SPACE	106.3	9.5	2.4	7.8	11.9															
COPY	B	o	w	i	n	g	G	r	e	e	n	L								
SPACE	7.8	8	7	10.5	4.8	4.8	7.8	5.3	8	8.9	5.2	7	7.8	5.3	27.9	90.3				
COPY	4	1	L																	
SPACE	106.3	9.5	2.4	7.8	11.9															
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NAME		Sign 3	QTY	1	SIGN NO.	116+20	STATION(S)
PANEL		BORDER					
WIDTH	8'-6"	WIDTH	1.25"				
HEIGHT	5'-6"	RADII	3"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
M1_4	0	36	21	30	24		
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE STEEL	AVERAGE LENGTH			
1	2		W 6x12	13.21'			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY	J	C	T	L																	
SPACE	37.7	10	9.3	7.4	37.7	26.7															
COPY	N	E	X	T	S	I	G	N	A	L	L										
SPACE	10.7	8.6	7.1	7.8	6	8	8.1	3.3	8.3	7.8	9.5	6	10.7	80.6							
COPY																					
SPACE																					
COPY																					
SPACE																					
COPY																					
SPACE																					

SCALE	AS NOTED		
DESIGNED BY	MO		
DRAWN BY	GS		
CHECKED BY	IR		
No.	REVISIONS	DATE	BY



DATE
10/2021
PROJECT NO.
850-6094060

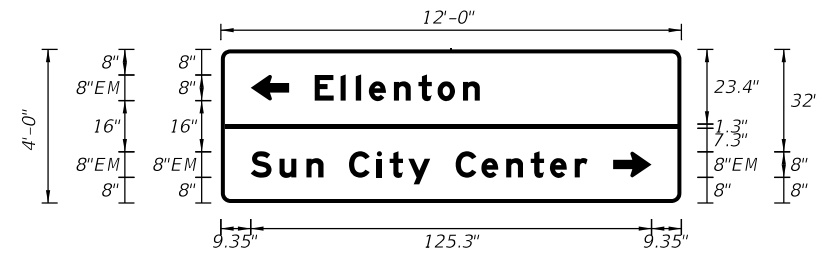


DESIGN ENGINEER
MICHAEL J. OATES
FL. LICENSE NO.
49282

GUIDE SIGN WORKSHEET (1)

SHEET NO.
S-20

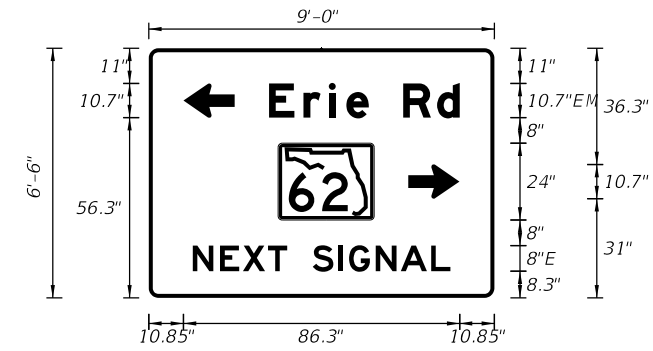
SIGN NAME		Sign 2	QTY	1	SIGN NO.	114+00	STATION(S)
PANEL		BORDER					
WIDTH	12'-0"	WIDTH	1.25"				
HEIGHT	4'-0"	RADII	3"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
ARUP	90	9.4	32	8	12		
ARUP	270	122.6	8	8	12		
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE STEEL	AVERAGE LENGTH			
1	2		W 6x12	11.82'			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY	E	l	e	n	t	o	n	L												
SPACE	29.4	8.1	4.8	4.1	7.8	7.7	6	7.9	5.3	63	51.6									
COPY	S	u	n	C	i	t	y	C	e	n	t	e	r	L						
SPACE	9.4	9	8.5	5.3	8	8.7	4	5.8	6.8	8	8	7.8	7.7	6	7.8	4	29.4	105.3		
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

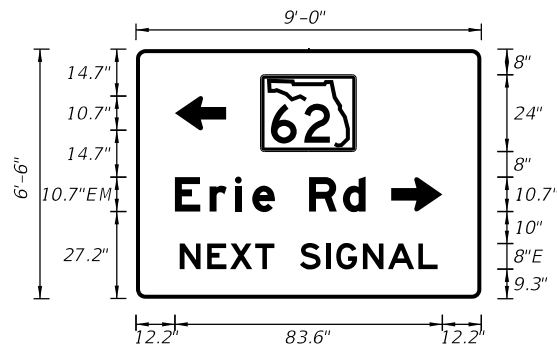
SIGN NAME		Sign 4	QTY	1	SIGN NO.	291+33	STATION(S)
PANEL		BORDER					
WIDTH	9'-0"	WIDTH	1.25"				
HEIGHT	6'-6"	RADII	3"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
AR_Type D	90	10.8	56.3	10.7	16		
AR_Type D	270	81.1	31	10.7	16		
F28_2	0	40.4	24.3	30	24		
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE STEEL	AVERAGE LENGTH			
1	2		W 6x12	12.77'			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY	E	r	i	e	R	d	L													
SPACE	37.6	10.8	7.9	5.5	7.1	10.7	10.6	7.1	10.8	59.6										
COPY	N	E	X	T	S	I	G	N	A	L	L									
SPACE	13.7	8.6	7.1	7.8	6	8	8.1	3.3	8.3	7.8	9.5	6	13.7	80.6						
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

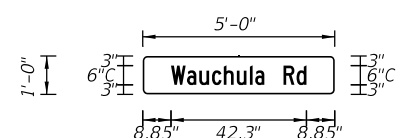
SIGN NAME	SIGN 5	QTY	SIGN NO.	STATION(S)	
PANEL	BORDER			325+30	
WIDTH	9'-0"	WIDTH	1.25"		
HEIGHT	6'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90	12.2	52.7	10.7	16
F28_2	0	38.9	46	30	24
AR_Type D	270	79.8	27.3	10.7	16
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	
1	2	W 6x12		13.78'	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY		E	r	i	e	R	d	L											
SPACE	12.2	10.8	7.9	5.5	7.1	10.7	10.6	7.1	36.2	59.6									
COPY		N	E	X	T	S	I	G	N	A	L	L							
SPACE	13.7	8.6	7.1	7.8	6	8	8.1	3.3	8.3	7.8	9.5	6	13.7	80.6					

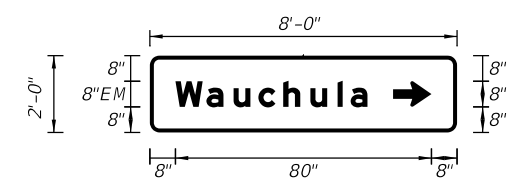
SIGN NAME	SIGN 7	QTY	SIGN NO.	STATION(S)	
PANEL	BORDER			115+85	
WIDTH	5'-0"	WIDTH	0.5"		
HEIGHT	1'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY		W	a	u	c	h	u	l	a	R	d	L							
SPACE	8.9	5	3.8	4	3.7	4	4.1	1.6	2.9	6	4.1	3.1	8.9	42.3					

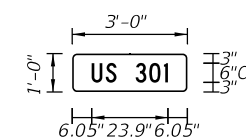
SIGN NAME	SIGN 6	QTY	SIGN NO.	STATION(S)	
PANEL	BORDER			301+00	
WIDTH	8'-0"	WIDTH	1.25"		
HEIGHT	2'-0"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	270	76	8	8	12
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY		W	a	u	c	h	u	l	a	L									
SPACE	8	9.7	8.5	7.8	7.8	8.5	8.5	4.1	5.3	28	60								

SIGN NAME	SIGN 8	QTY	SIGN NO.	STATION(S)	
PANEL	BORDER			115+85	
WIDTH	3'-0"	WIDTH	0.5"		
HEIGHT	1'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



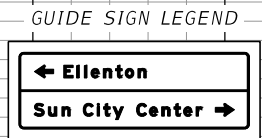
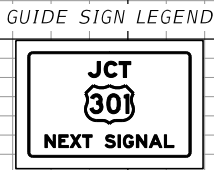
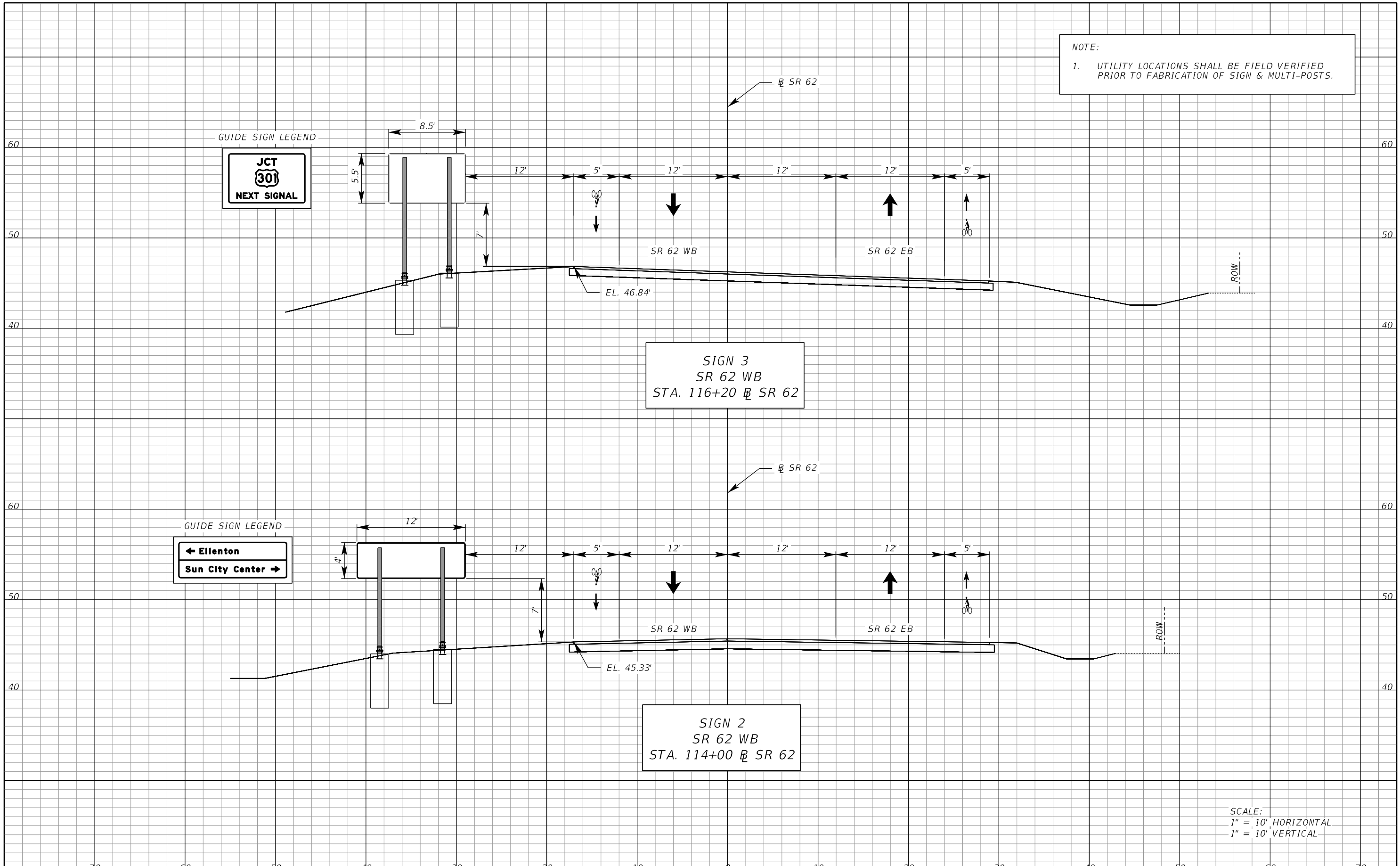
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY		U	S	3	0	1	L												
SPACE	6.1	4.4	3.4	6	4.3	4.6	1.3	6.1	23.9										

SCALE	AS NOTED		DATE	10/2021		DESIGN ENGINEER	MICHAEL J. OATES	MANATEE COUNTY PUBLIC WORKS	FL. LICENSE NO.	49282	GUIDE SIGN WORKSHEET (2)	SHEET NO.	5-21
DESIGNED BY	MO		PROJECT NO.	850-6094060									
DRAWN BY	GS												
CHECKED BY	IR												
No.	REVISIONS	DATE	BY										

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

NOTE:
 1. UTILITY LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF SIGN & MULTI-POSTS.

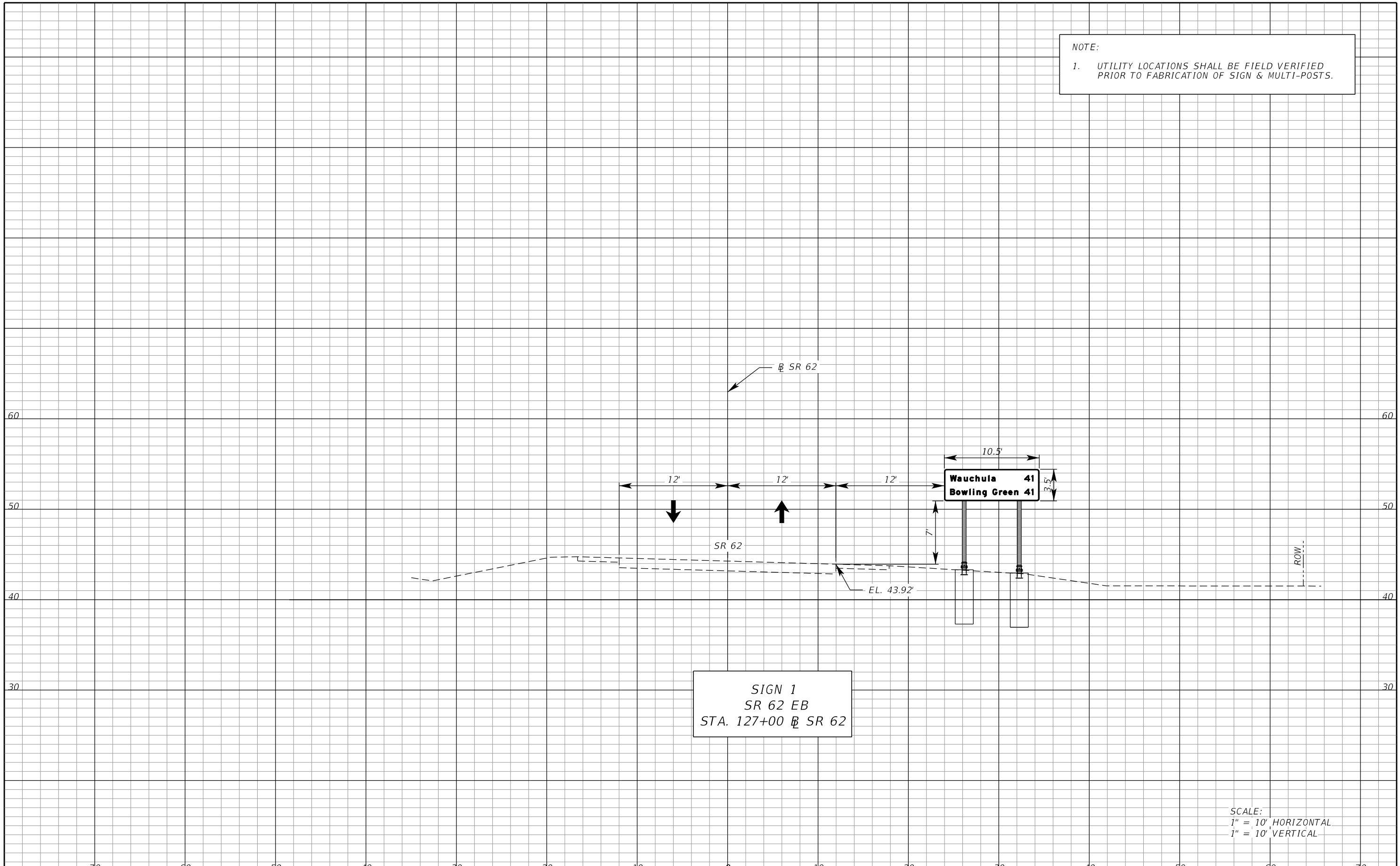


SCALE:
 1" = 10' HORIZONTAL
 1" = 10' VERTICAL



No.	REVISIONS	DATE	BY	SCALE	AS NOTED	HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE	10/2021	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	MICHAEL J. OATES	SHEET NO.
				DESIGNED BY	MO		PROJECT NO.	850-6094060		FL. LICENSE NO.	49282	
				DRAWN BY	GS							S-22
				CHECKED BY	IR							

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

NOTE:
 1. UTILITY LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF SIGN & MULTI-POSTS.



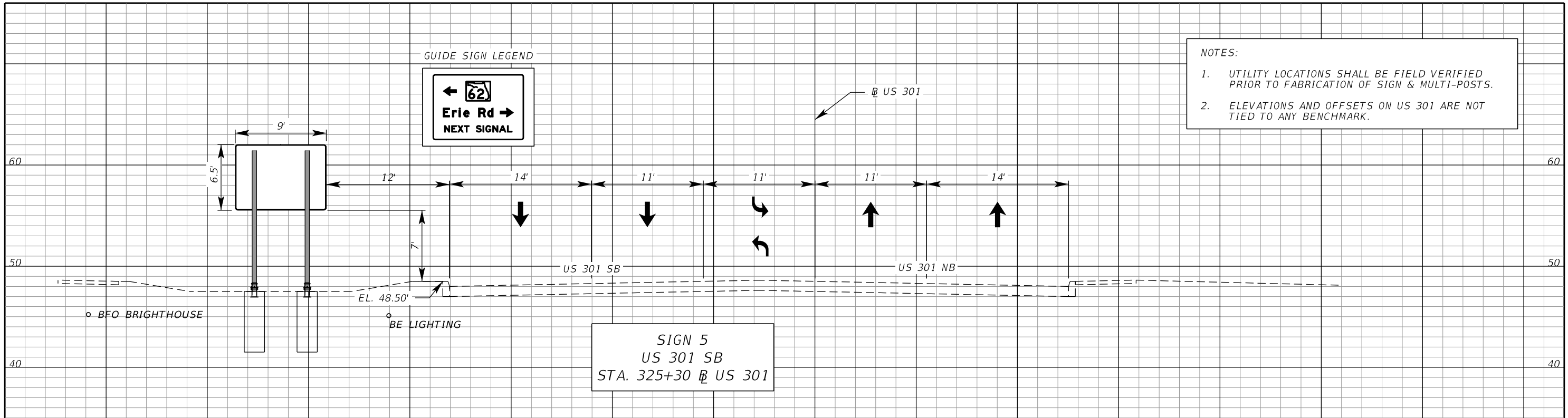
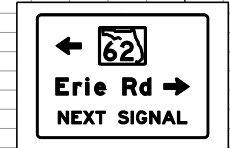
SCALE:
 1" = 10' HORIZONTAL
 1" = 10' VERTICAL

SCALE AS NOTED		 HDR Engineering, Inc. 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609-2548	DATE 10/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES	SIGN CROSS SECTIONS (2)	SHEET NO. S-23
DESIGNED BY MO			PROJECT NO. 850-6094060		FL. LICENSE NO. 49282		
DRAWN BY GS							
CHECKED BY IR							
No.	REVISIONS	DATE	BY				

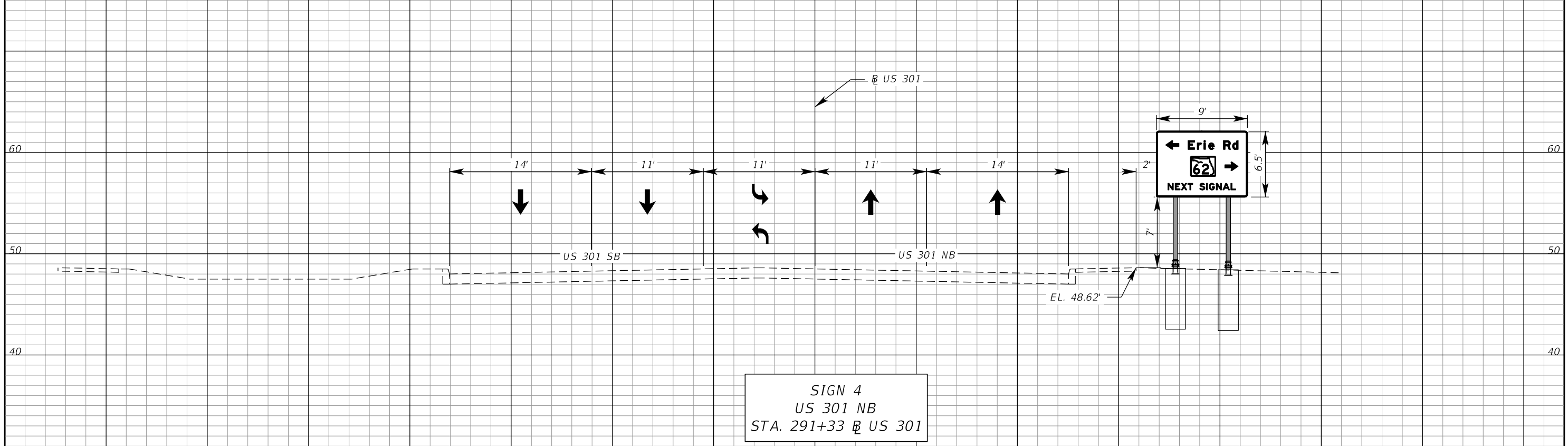
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NOTES:
 1. UTILITY LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF SIGN & MULTI-POSTS.
 2. ELEVATIONS AND OFFSETS ON US 301 ARE NOT TIED TO ANY BENCHMARK.

GUIDE SIGN LEGEND



SIGN 5
 US 301 SB
 STA. 325+30 @ US 301



SIGN 4
 US 301 NB
 STA. 291+33 @ US 301

SCALE:
 1" = 10' HORIZONTAL
 1" = 10' VERTICAL

SCALE	AS NOTED		
DESIGNED BY	MO		
DRAWN BY	GS		
CHECKED BY	IR		
No.	REVISIONS	DATE	BY

HDR Engineering, Inc.
 4830 W Kennedy Blvd,
 Suite 400
 Tampa, FL 33609-2548

DATE
 10/2021
 PROJECT NO.
 850-6094060

MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER
 MICHAEL J. OATES
 FL. LICENSE NO.
 49282

SIGN CROSS SECTIONS (3)

SHEET NO.
 S-24

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