

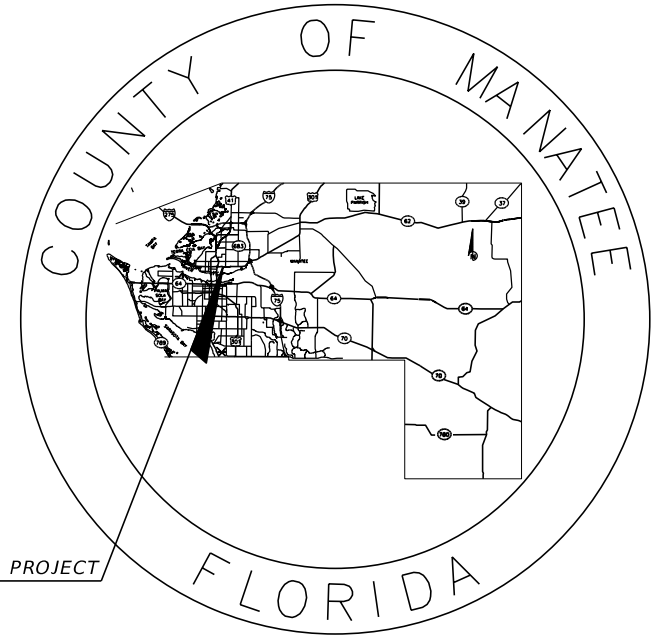
**MANATEE COUNTY  
PUBLIC WORKS DEPARTMENT**

**CONTRACT PLANS**

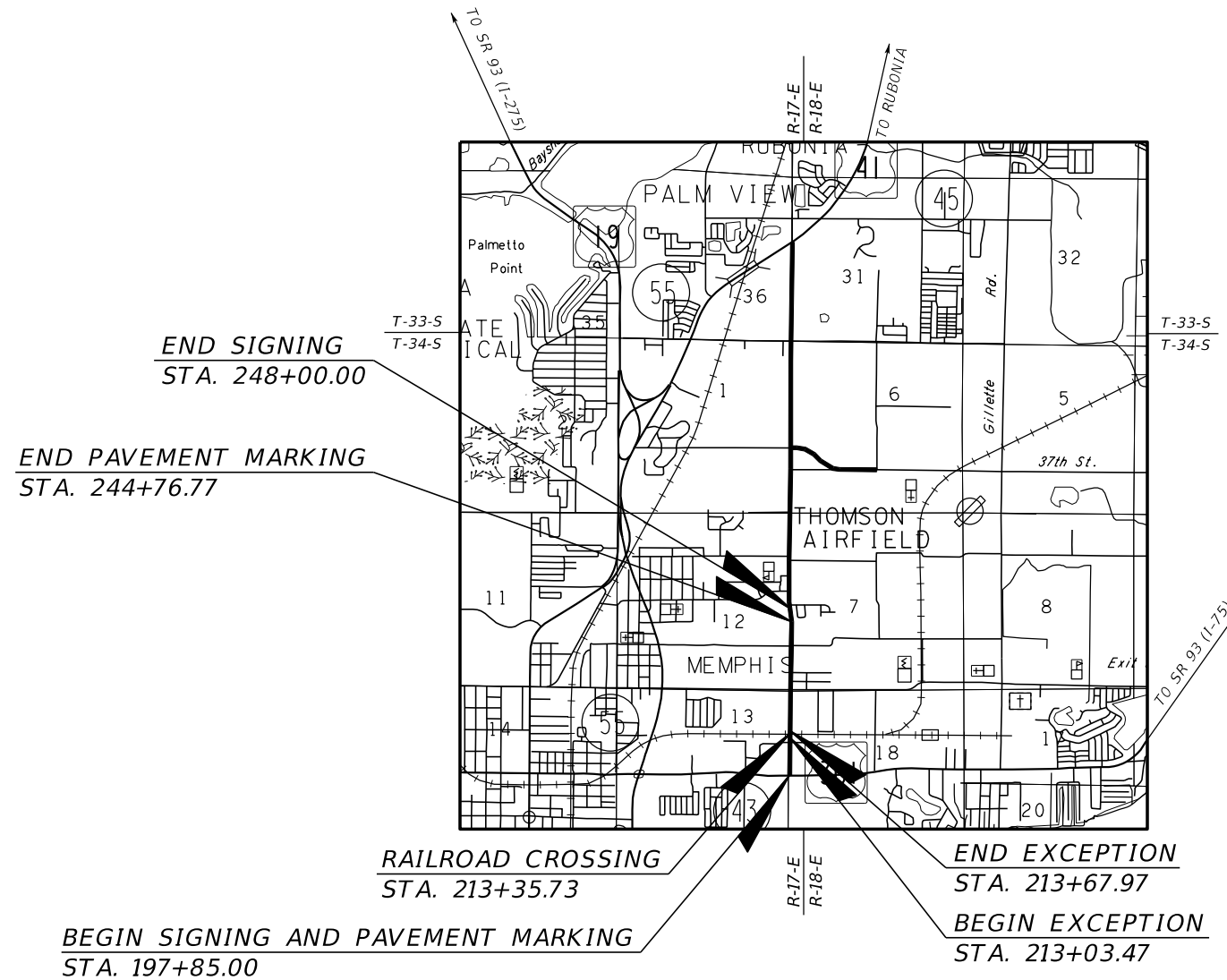
**MANATEE COUNTY  
PROJECT NUMBER 6094360  
CANAL ROAD (16TH AVENUE EAST)  
SEGMENT 1 - US 301 TO 17TH STREET EAST  
SIGNING AND PAVEMENT MARKING PLANS**

**INDEX OF SIGNING AND PAVEMENT MARKING PLANS**

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3 - S-4	TABULATION OF QUANTITIES
S-5	GENERAL NOTES
S-6 - S-13	SIGNING AND PAVEMENT MARKING PLAN
S-14	GUIDE SIGN WORKSHEET



LOCATION OF PROJECT



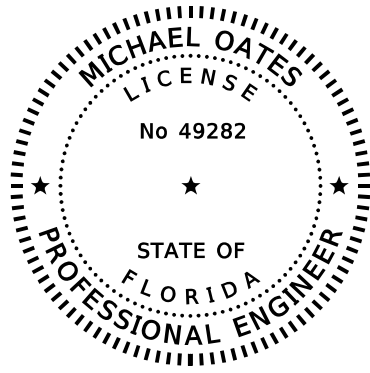
**SIGNING AND PAVEMENT MARKING PLANS  
ENGINEER OF RECORD:**

MICHAEL J. OATES, P.E.  
P.E. NO.: 49282  
HDR ENGINEERING, INC.  
2601 CATTLEMEN ROAD, SUITE 400  
SARASOTA, FLORIDA 34232  
VENDOR NO. 47-0680568

MANATEE CO. PROJECT MANAGER:  
MICHAEL L. STURM, P.E.

FISCAL YEAR	SHEET NO.
21	S-1

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



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.  
2601 CATTLEMEN ROAD, SUITE 400  
SARASOTA, FLORIDA 34232-6212  
MICHAEL OATES, P.E. NO. 49282

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
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3 - S-4	TABULATION OF QUANTITIES
S-5	GENERAL NOTES
S-6 - S-13	SIGNING AND PAVEMENT MARKING PLAN
S-14	GUIDE SIGN WORKSHEET

				SCALE	AS NOTED			 HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233	DATE	12/2021	 <b>MANATEE COUNTY PUBLIC WORKS</b>	DESIGN ENGINEER	MICHAEL J. OATES	<b>SIGNATURE SHEET</b>	SHEET NO.	
				DESIGNED BY	MO				PROJECT NO.	6094360		FL. LICENSE NO.	49282			
				DRAWN BY	VG											
				CHECKED BY	IR											
No.	REVISIONS			DATE	BY	PW:\										

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			S-6		S-7		S-8		S-9		S-10		S-11		S-12		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		3		6		1		6		8		5		31			
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS			2					1		1					4			
700-1-50	SINGLE POST SIGN, RELOCATE	AS										1					1			
700-1-74	SINGLE POST SIGN, F&I CUSTOM, 31+ SF	AS					2								1		3			
704-1-2	TUBULAR MARKER, DURABLE, 36" YELLOW POST	EA	3		2		1		1				1				8			
705-10-1	OBJECT MARKER, TYPE 1	EA	1								2		4				7			
706-1-3	RAISED PAVEMENT MARKER, TYPE B (WHITE/RED)	EA	44		39		38		48		104		10		2		285			
	(YELLOW/YELLOW)		4							4		76		108			192			
	(MONO-DIRECTIONAL YELLOW)		19		91		35		55		36		60				296			
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	68		38		13		25		15		24				183			
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																		
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.355		0.226		0.298		0.319		0.544		0.225		0.226		2.194			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	353		260		587				720		352		223		2495			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	494		50		196				751		61		38		1590			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	0.061		0.220		0.169		0.256		0.126		0.064				0.897			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT, 6"	GM	0.075		0.018				0.034		0.033						0.160			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL ONLY	EA	1		1												2			
	MERGE										2						2			
	RAILROAD CROSSING						4										4			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA																		
	RIGHT		5		4				1		5		1				16			
	LEFT		5		1				1		6		1		1		15			
	THRU		1		1												2			
	THRU/LEFT				1												1			
	MERGE																			
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.159		0.232		0.237		0.231		0.217		0.430		0.442		1.949			
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	6										477		854		1337			
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	GM	0.042		0.036		0.002		0.034		0.066		0.048		0.042		0.270			
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	353		260		587				720		352		223		2495			
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF	494		50		196				751		61		38		1590			
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.075		0.018				0.034		0.033						0.160			
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL ONLY	EA	1		1												2			
	MERGE										2						2			
	RAILROAD CROSSING						4										4			
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA																		
	RIGHT		5		4				1		5		1				16			
	LEFT		5		1				1		6		1		1		15			
	THRU		1		1												2			
	THRU/LEFT				1												1			
	MERGE										2						2			
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	6										477		854		1337			
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.042		0.036		0.002		0.034		0.066		0.048		0.042		0.270			
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	494		50						751		61		38		1394			
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	1		3		2		2		6		2		1		17			
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	13		3		2		2		6		2		1		29			
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.355		0.226		0.298		0.319		0.544		0.225		0.226		2.194			
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM	0.061		0.220		0.169		0.256		0.126		0.064				0.897			
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.159		0.232		0.237		0.231		0.217		0.430		0.442		1.949			

\* 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. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233	DATE 12/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES	SHEET NO.  S-3
DESIGNED BY MO			PROJECT NO. 6094360		FL. LICENSE NO. 49282	
DRAWN BY VD			TABULATION OF QUANTITIES			
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.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL		
			S-13		PLAN	FINAL	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															1		32	
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS																		4	
700-1-50	SINGLE POST SIGN, RELOCATE	AS																		1	
700-1-74	SINGLE POST SIGN, F&I CUSTOM, 31+ SF	AS																		3	
704-1-2	TUBULAR MARKER, DURABLE, 36" YELLOW POST	EA																		8	
705-10-1	OBJECT MARKER, TYPE 1	EA																		7	
706-1-3	RAISED PAVEMENT MARKER, TYPE B (WHITE/RED) (YELLOW/YELLOW) (MONO-DIRECTIONAL YELLOW)	EA																		773	
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF																		183	
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																		1	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM																		2.194	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF																		2495	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF																		1590	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM																		0.897	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT, 6"	GM																		0.160	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL ONLY MERGE RAILROAD CROSSING	EA																		8	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS RIGHT LEFT THRU THRU/LEFT MERGE	EA																		34	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM																		1.949	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF																		1337	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	GM																		0.270	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF																		2495	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF																		1590	
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM																		0.160	
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL ONLY MERGE RAILROAD CROSSING	EA																		8	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW RIGHT LEFT THRU THRU/LEFT MERGE	EA																		36	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF																		1337	
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM																		0.270	
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF																		1394	
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA																		17	
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA																		29	
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM																		2.194	
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM																		0.897	
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM																		1.949	

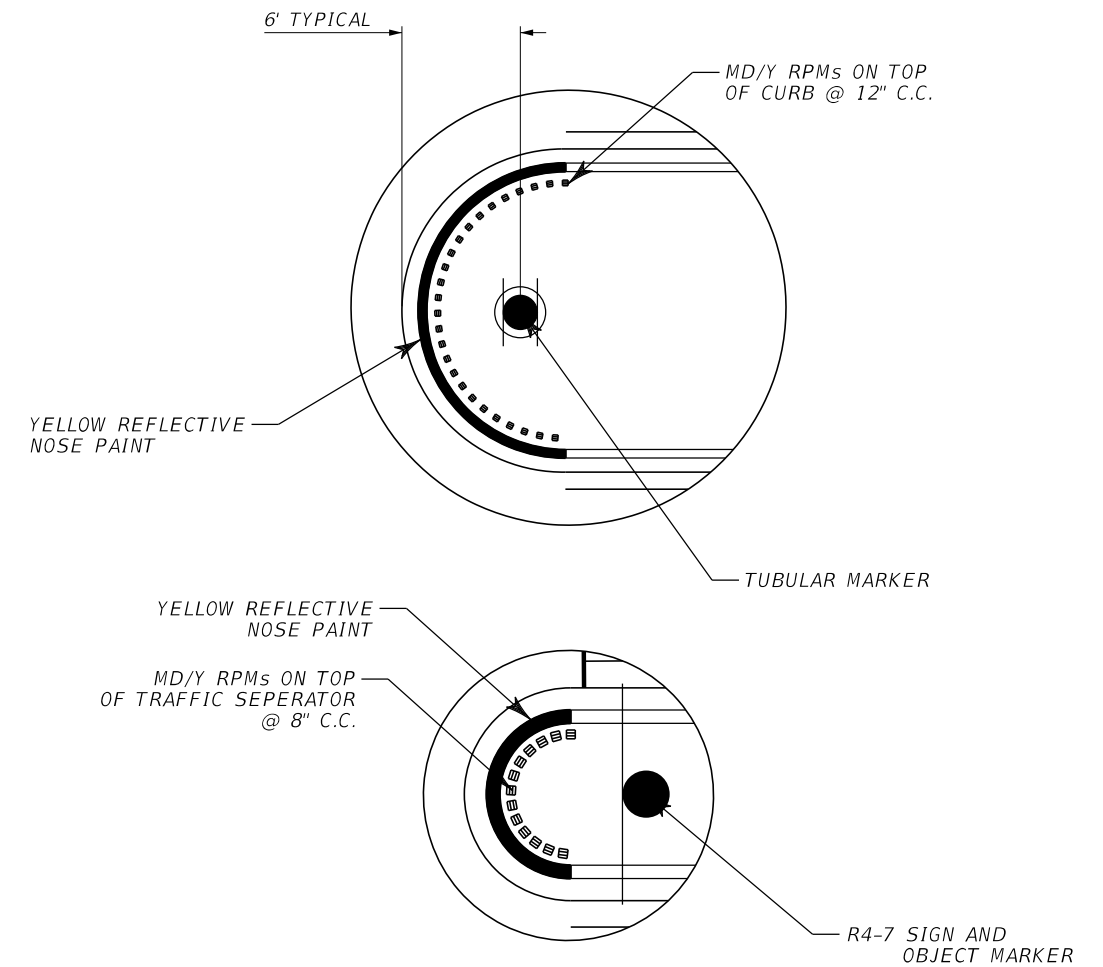
\* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION: SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

SCALE AS NOTED		 HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233	DATE 12/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES	SHEET NO.  S-4
DESIGNED BY MO			PROJECT NO. 6094360		FL. LICENSE NO. 49282	
DRAWN BY VD						
CHECKED BY IR						
No.	REVISIONS	DATE	BY	PW:\		



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

SIGNING AND PAVEMENT MARKING GENERAL NOTES:

1. ALL PAVEMENT MARKINGS WITHIN THE MANATEE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
2. REFER TO F.D.O.T. STANDARD PLANS INDEX NO. 706-001 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
3. 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.
4. THE SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
5. 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.
6. CONTRACTOR SHALL USE W-SHAPE STEEL POSTS FOR MULTI-POST SIGNS. ALL COLUMNS (POSTS) FOR SINGLE COLUMN SIGNS SHALL BE U-CHANNEL POST, UNLESS OTHERWISE INDICATED IN THE PLANS.
7. ALL SINGLE COLUMN SIGNS WITHIN THE LIMITS OF CLEARING AND GRUBBING SHALL BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS. PAYMENT SHALL BE REFLECTED IN THE PAY ITEM NO. 110-1-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
8. 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 MULTI POST FOUNDATIONS.
9. ALL CROSSWALKS SHALL BE SIX FEET (6') OR TEN FEET (10') IN WIDTH AS SHOWN IN PLANS. MEASUREMENTS SHALL BE FROM INSIDE TO INSIDE OF 12" STRIPES.
10. TUBULAR MARKERS SHALL BE INSTALLED AT ALL MEDIAN NOSES AS SHOWN IN PLANS PER STANDARD PLANS INDEX NO. 711-001.
11. WHERE EXISTING STREET NAME SIGNS ARE RELOCATED ONTO PROPOSED STOP SIGN ASSEMBLIES, THE COST IS TO BE INCLUDED UNDER THE RELATED PAY ITEM.



TRAFFIC SEPARATOR MARKING DETAIL

SCALE AS NOTED				 HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233	DATE	 <b>MANATEE COUNTY PUBLIC WORKS</b>	DESIGN ENGINEER	<b>GENERAL NOTES</b>	SHEET NO.	
DESIGNED BY MO					12/2021		MICHAEL J. OATES		<b>GENERAL NOTES</b>	S-5
DRAWN BY VD					PROJECT NO.		FL. LICENSE NO.			
CHECKED BY IR					6094360		49282			
No.	REVISIONS	DATE	BY	PW:\						

EXISTING SIGN TO REMAIN

16th Ave E Canal Rd NEXT SIGNAL

1" = 50'

EXISTING SIGN TO REMAIN

R4-7  
24" X 30"  
OM1-3  
18" X 18"  
700-1-11 1 AS  
705-10-1 1 EA  
STA. 201+26

PROP. R/W  
EXIST. R/W

6" WHITE WITH W/R RPMs AT 20'

6" WHITE (2'-4" SKIP)

6" YELLOW

6" WHITE (10'-30' SKIP) WITH W/R RPMs AT 40'

6" WHITE

EXIST. R/W

PROP. R/W

6" WHITE

6" WHITE WITH W/R RPMs AT 20'

6" WHITE (2'-4" SKIP)

MATCHLINE STA. 203+00.00

MATCH EXISTING PAVEMENT MARKING STA. 199+42.15

BEGIN SIGNING AND PAVEMENT MARKING STA. 197+85.00

197  
198  
199  
CONST. CANAL RD.

3 EA 704-1-2

6" WHITE (2'-4" SKIP)

6" YELLOW (2'-4" SKIP)

6" YELLOW  
6" WHITE

24" WHITE

6" DBL. WHITE  
6" WHITE (10'-30' SKIP) WITH W/R RPMs AT 40'

EXIST. R/W

6" YELLOW

6" DBL. WHITE  
6" WHITE (10'-30' SKIP) WITH W/R RPMs AT 40'

EXIST. R/W

US 301



16TH AVE E (CANAL RD.)

SPEED LIMIT 40

R2-1  
30" X 36"  
700-1-11 1 AS  
STA. 202+64

16th Ave E Canal Rd NEXT SIGNAL

EXISTING SIGN TO REMAIN

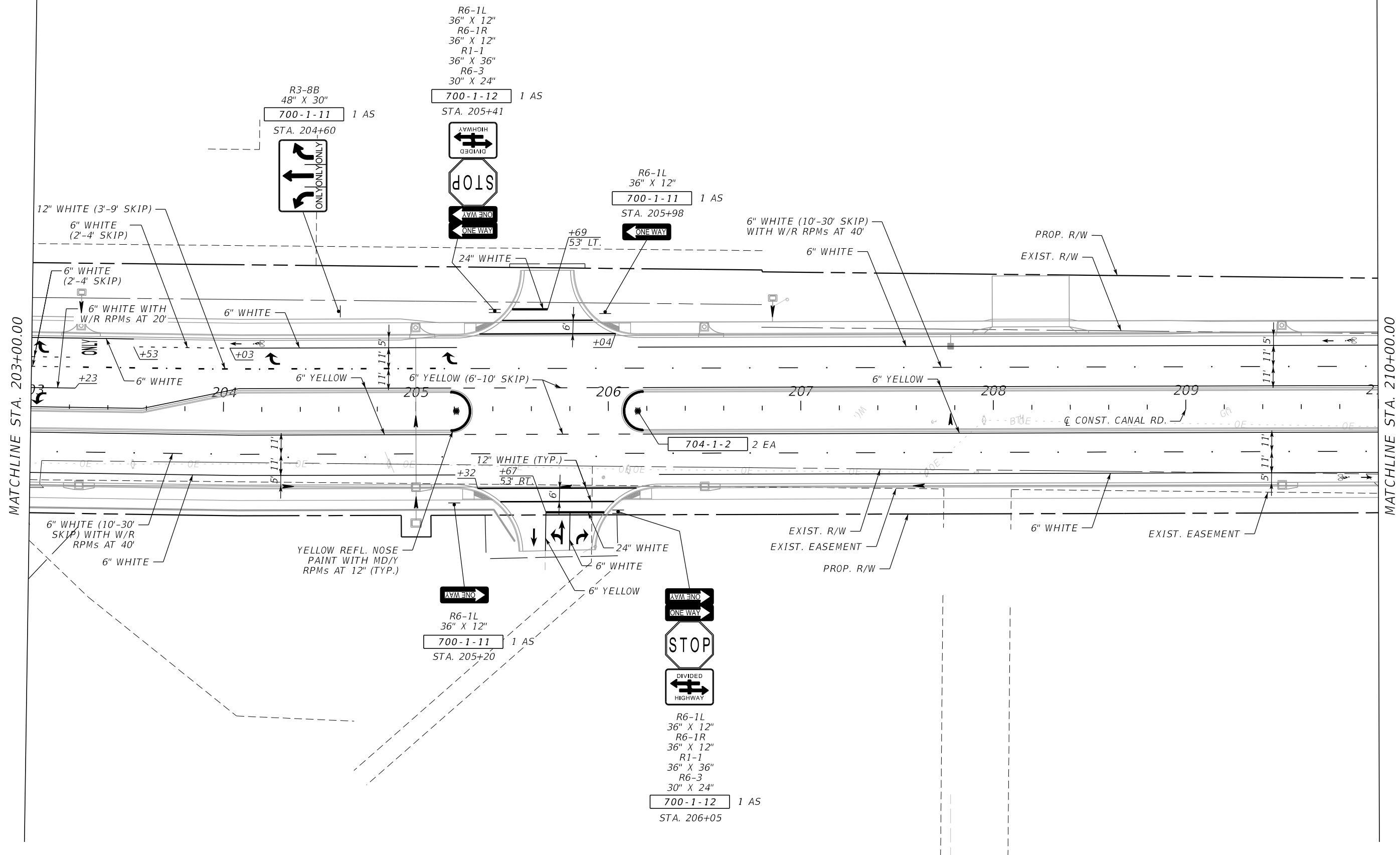
No.	REVISIONS	DATE	BY	IR	 HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233	DATE 12/2021  PROJECT NO. 6094360	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER MICHAEL J. OATES  FL. LICENSE NO. 49282	SHEET NO.  S-6
SCALE AS NOTED									
DESIGNED BY MO									
DRAWN BY VD									
CHECKED BY									
PW:\									

1:09:02 PM 12/9/2021



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

16TH AVE E (CANAL RD.)

1" = 50'



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No.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED			
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	SIGNING AND PAVEMENT MARKING PLAN (2)
				MO	6094360	49282	
				DRAWN BY			S-7
				VD			
				CHECKED BY			
				IR			
1:09:05 PM 12/9/2021 PW:\				 HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233		 MANATEE COUNTY PUBLIC WORKS	

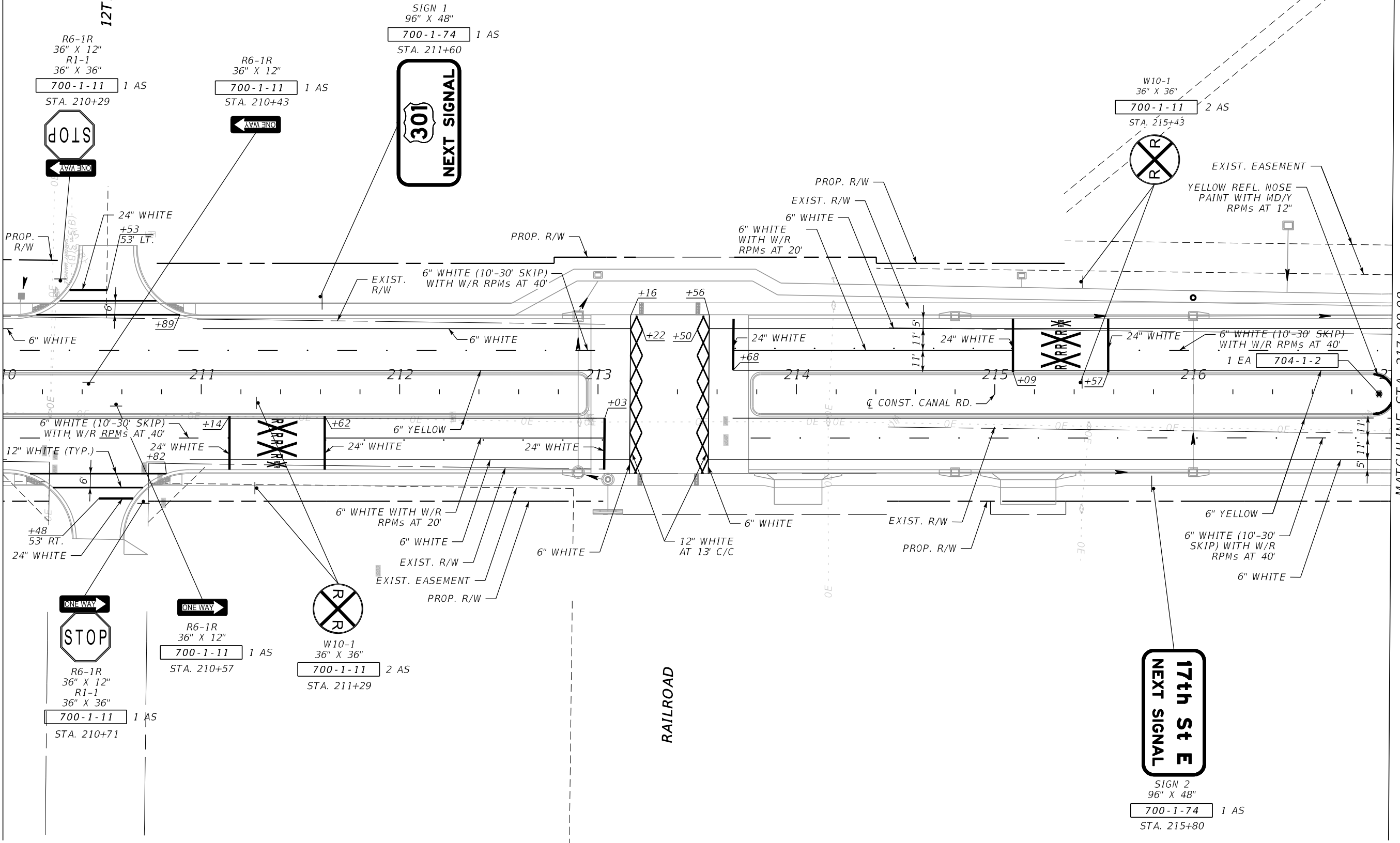
16TH AVE E (CANAL RD.)

1" = 50'

MATCHLINE STA. 210+00.00

MATCHLINE STA. 217+00.00

12TH ST. E.



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



HDR Engineering, Inc.  
2601 Cattlemen Road  
Suite 400  
Sarasota, FL 34232-6233

DATE  
12/2021  
PROJECT NO.  
6094360



MANATEE COUNTY  
PUBLIC WORKS

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

SIGNING AND PAVEMENT  
MARKING PLAN (3)

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.

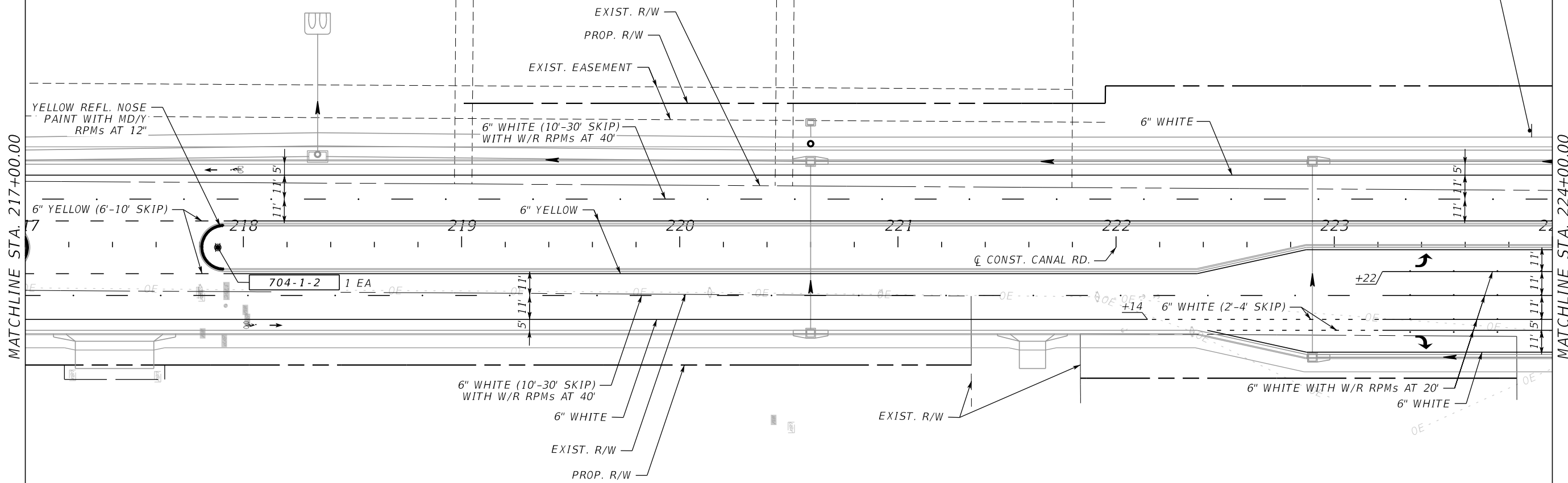


16TH AVE E (CANAL RD.)

1" = 50'



R2-1  
30" X 36"  
1 AS 700-1-11  
STA. 223+90

SPEED  
LIMIT  
40



MATCHLINE STA. 217+00.00

MATCHLINE STA. 224+00.00

No.		REVISIONS		DATE	BY	IR	 HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233	DATE	12/2021	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	MICHAEL J. OATES	<b>SIGNING AND PAVEMENT                  MARKING PLAN (A)</b>	SHEET NO.	S-9
SCALE		AS NOTED						PROJECT NO.	6094360		FL. LICENSE NO.	49282			
DESIGNED BY		MO													
DRAWN BY		VD													
CHECKED BY															

1:09:12 PM

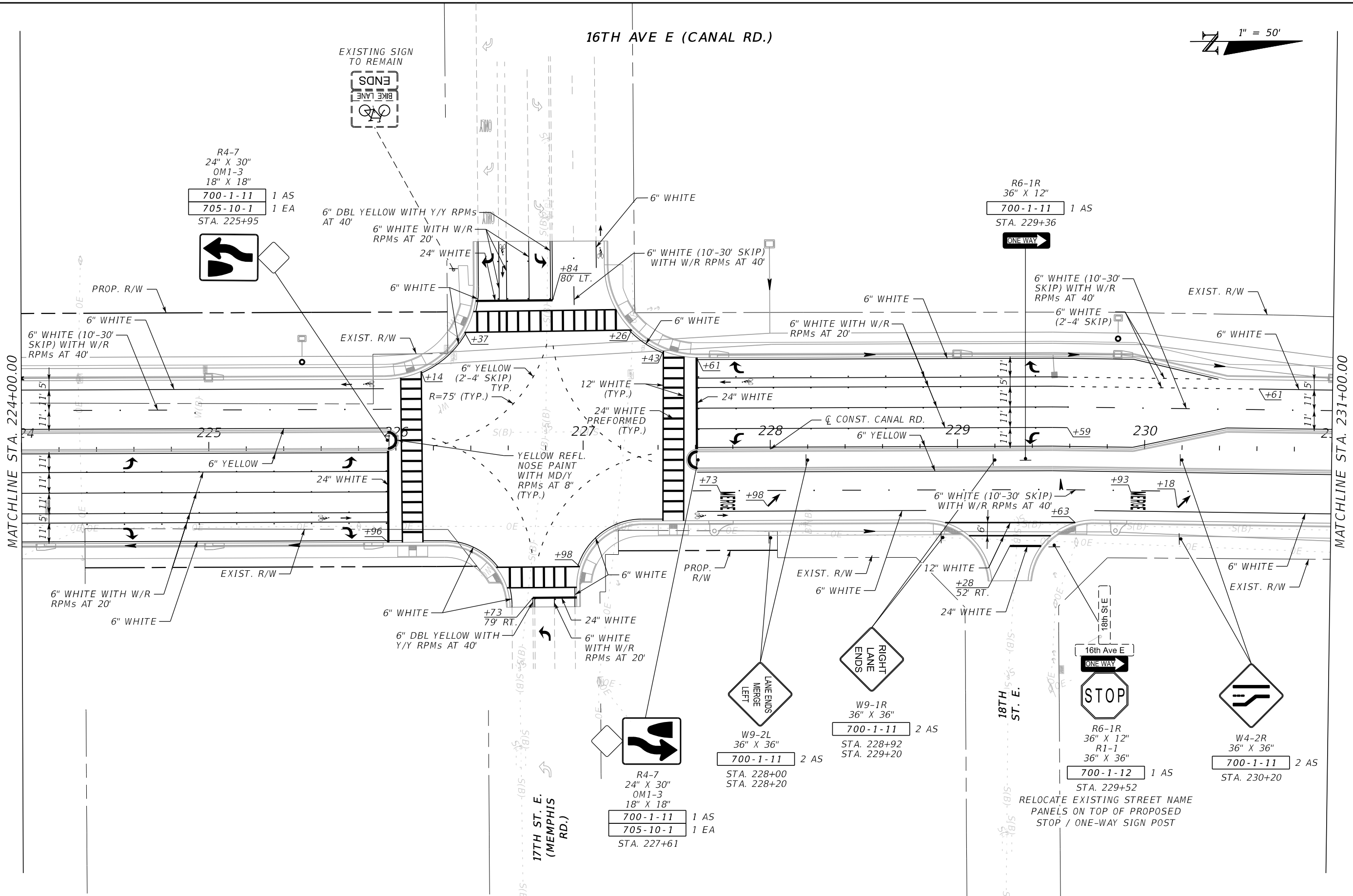
12/9/2021

PW:\

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16TH AVE E (CANAL RD.)

1" = 50'



No.	REVISIONS	DATE	BY
		12/9/2021	IR

SCALE AS NOTED

DESIGNED BY MO

DRAWN BY VD

CHECKED BY IR

DATE 12/2021

PROJECT NO. 6094360

HDR

HDR Engineering, Inc.  
2601 Cattlemen Road  
Suite 400  
Sarasota, FL 34232-6233

Manatee County Florida

MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER  
MICHAEL J. OATES

FL. LICENSE NO.  
49282

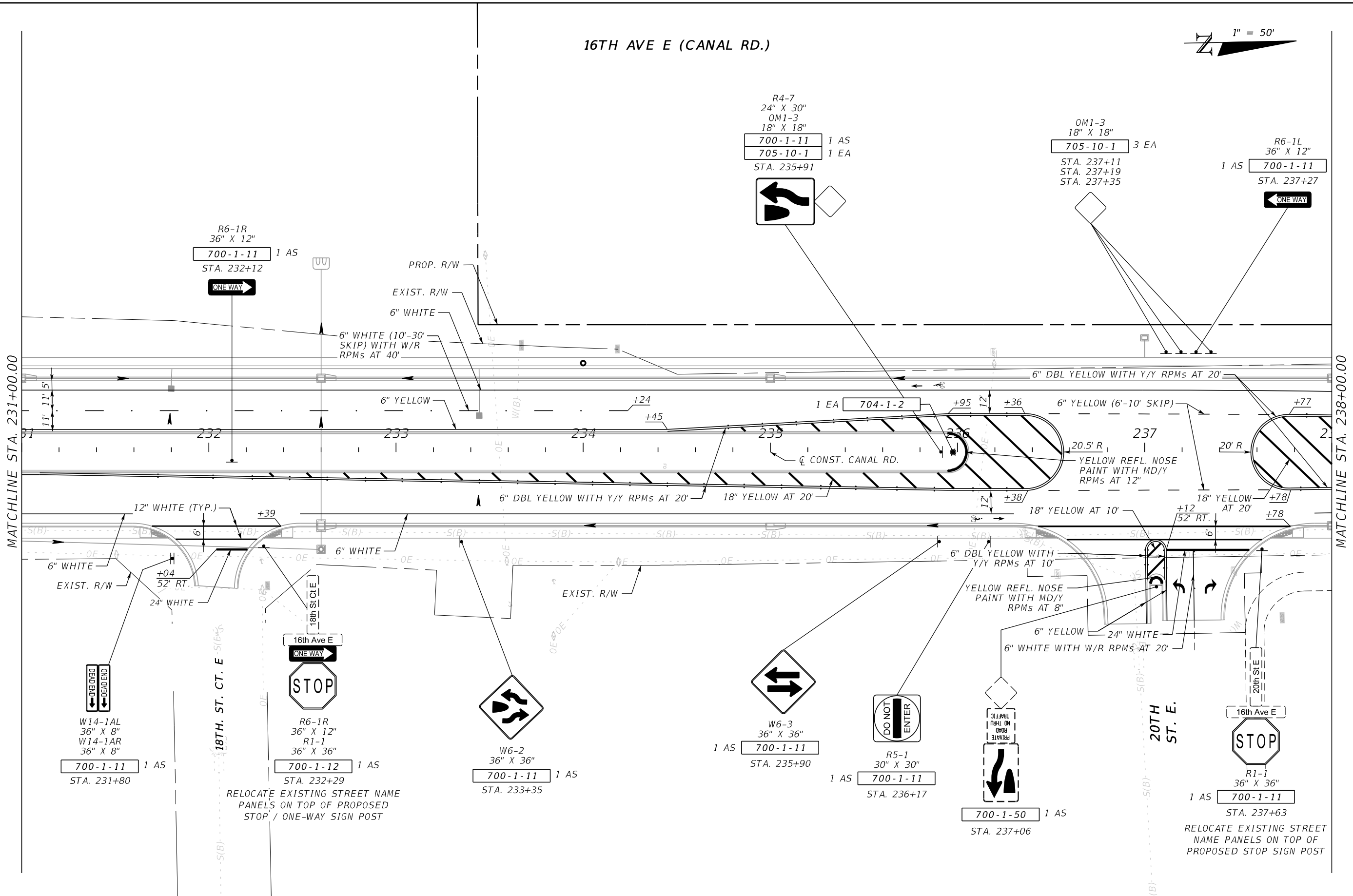
SIGNING AND PAVEMENT MARKING PLAN (5)

SHEET NO.  
S-10

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16TH AVE E (CANAL RD.)

1" = 50'



No.	REVISIONS	DATE	BY
	12/9/2021		IR

SCALE AS NOTED

DESIGNED BY MO

DRAWN BY VD

CHECKED BY IR

HDR Engineering, Inc.  
2601 Cattlemen Road  
Suite 400  
Sarasota, FL 34232-6233

DATE	12/2021
PROJECT NO.	6094360

MANATEE COUNTY  
PUBLIC WORKS

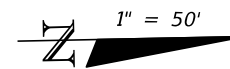
DESIGN ENGINEER	MICHAEL J. OATES
FL. LICENSE NO.	49282

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

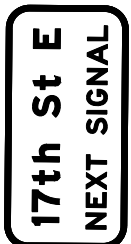
SHEET NO.	S-11
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16TH AVE E (CANAL RD.)



SIGN 2  
96" X 48"  
700-1-74 1 AS  
STA. 238+15



R1-1  
36" X 36"  
700-1-11 1 AS  
STA. 239+88

RELOCATE EXISTING STREET  
NAME PANELS ON TOP OF  
PROPOSED STOP SIGN POST



R2-1  
30" X 36"  
700-1-11 1 AS  
STA. 243+43



21ST ST.  
CT. E.



R1-1  
36" X 36"  
700-1-11 1 AS  
STA. 240+49

RELOCATE EXISTING STREET  
NAME PANELS ON TOP OF  
PROPOSED STOP SIGN POST



W3-5  
36" X 36"  
700-1-11 1 AS  
STA. 241+25



R2-1  
30" X 36"  
700-1-11 1 AS  
STA. 243+43

END PAVEMENT MARKING  
MATCH EXISTING PAVEMENT MARKING  
STA. 244+76.77

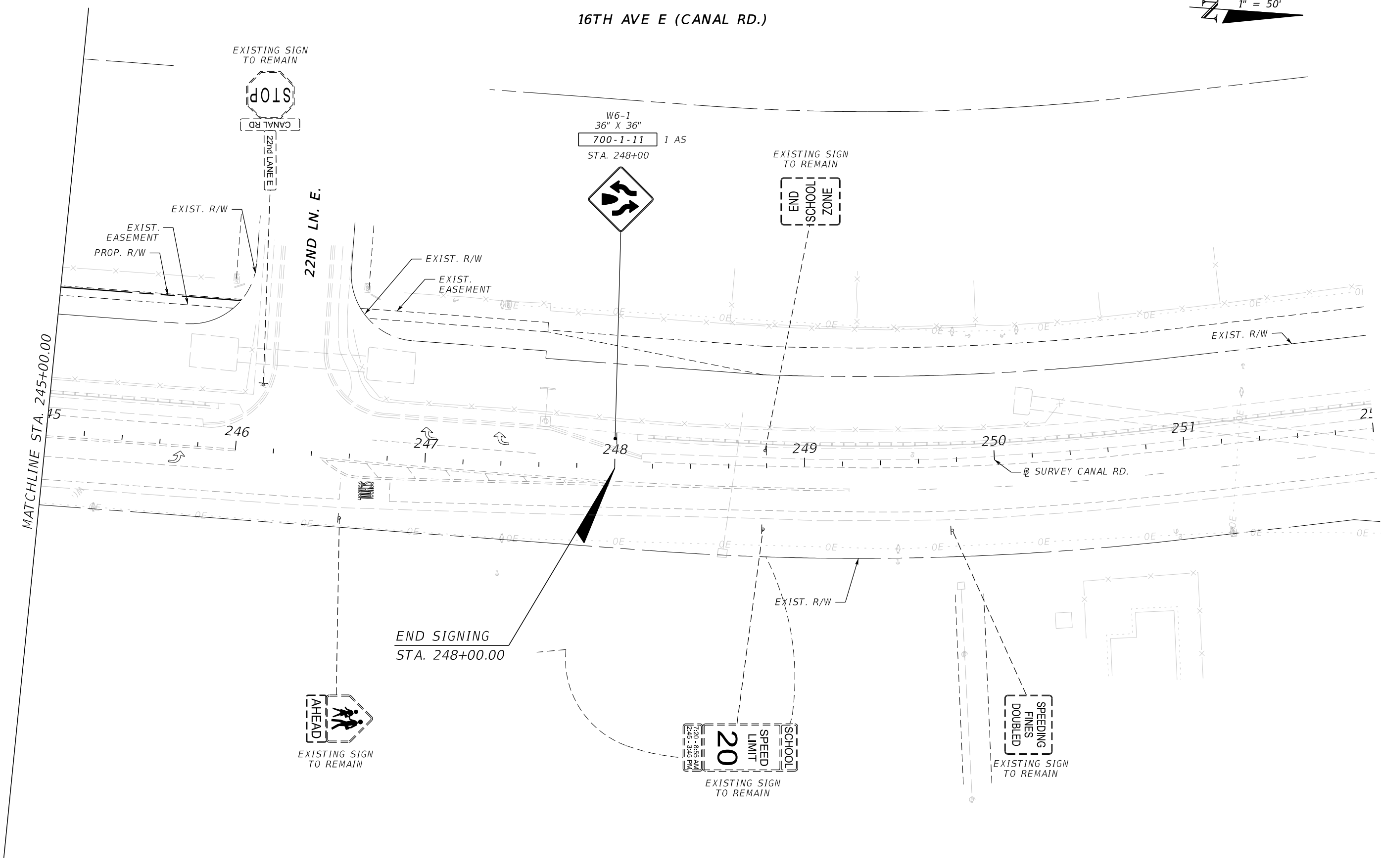
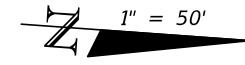
MATCHLINE STA. 238+00.00

MATCHLINE STA. 245+00.00

No.		REVISIONS		DATE	BY	IR	<p>HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233</p>	DATE	<p>MANATEE COUNTY PUBLIC WORKS</p>	DESIGN ENGINEER	<p>SIGNING AND PAVEMENT MARKING PLAN (7)</p>	SHEET NO.
1:09:20 PM		12/9/2021			PW:\			<p>6094360</p>		<p>MICHAEL J. OATES</p>		<p>FL. LICENSE NO. 49282</p>

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16TH AVE E (CANAL RD.)



No.	REVISIONS	DATE	BY
		12/9/2021	IR

SCALE AS NOTED

DESIGNED BY MO

DRAWN BY VD

CHECKED BY IR

HDR Engineering, Inc.  
2601 Cattlemen Road  
Suite 400  
Sarasota, FL 34232-6233

DATE	12/2021
PROJECT NO.	6094360

MANATEE COUNTY  
PUBLIC WORKS

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

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

SHEET NO.	S-13
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1:09:23 PM

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