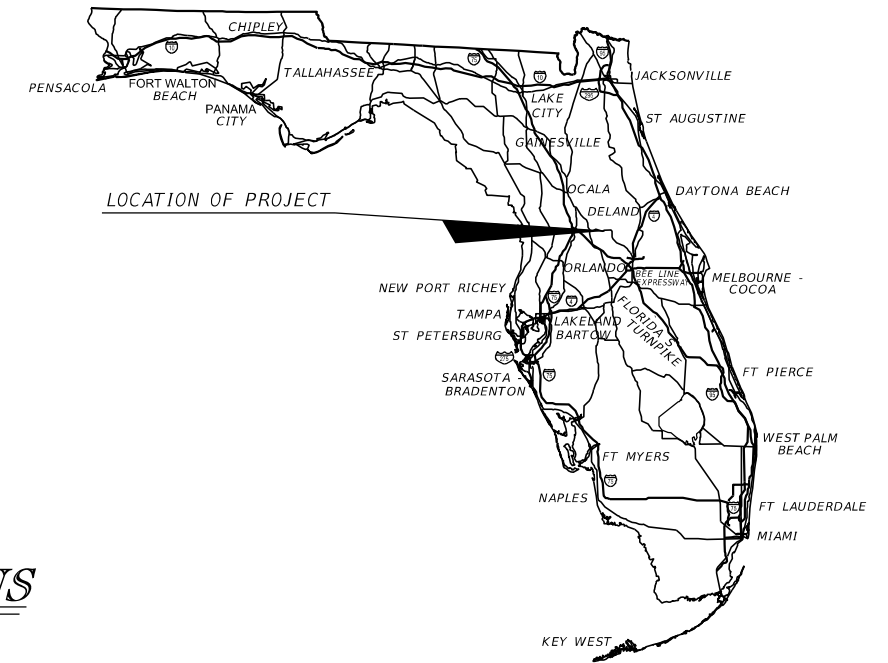


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 238275-3-52-01

LAKE COUNTY (11130)
STATE ROAD NO. 46



INDEX OF SIGNING AND PAVEMENT MARKING PLANS

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S-2	SIGNATURE SHEET
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S-5	GENERAL NOTES
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S-28 TO S-29	LIGHTING PLANS
S-30	LED SIGN DETAILS

SIGNING AND PAVEMENT MARKING PLANS

SIGNING AND PAVEMENT
MARKING PLANS
ENGINEER OF RECORD:

BRET W. BENNET, P.E.
P.E. NO.: 53977
LOCHRANE ENGINEERING, INC.
201 SOUTH BUMBY AVENUE
ORLANDO, FLORIDA 32803
CONTRACT NO. C9B09
VENDOR NO. F592036861.001
CERTIFICATE OF AUTHORIZATION NO. 2856

FDOT PROJECT MANAGER:

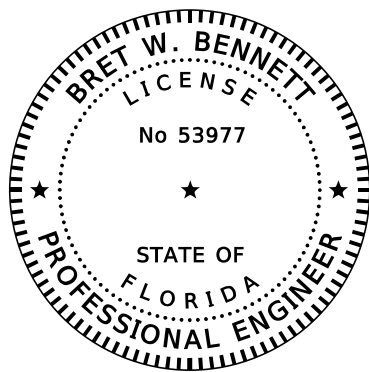
CATALINA CHACON, PE

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T5589	17	S-1

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

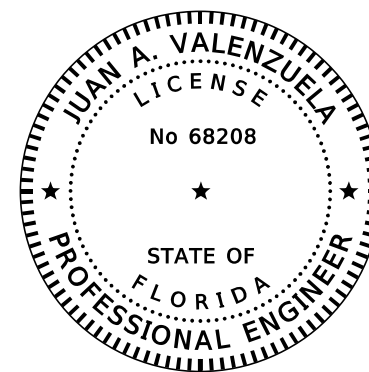


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LOCHRANE ENGINEERING, INC.
201 SOUTH BUMBY AVENUE
ORLANDO, FLORIDA 32803
CERTIFICATE OF AUTHORIZATION NO. 2856
BRET W. BENNETT, P.E. NO. 53977

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3 TO S-4	TABULATION OF QUANTITIES
S-5	GENERAL NOTES
S-6 TO S-21	SIGNING AND PAVEMENT MARKING PLAN SHEETS
S-23	SIGN STRUCTURE CROSS SECTION

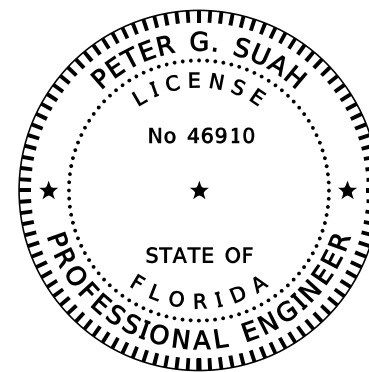


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FLORIDA BRIDGE AND TRANSPORTATION, INC.
633 DARTMOUTH ST.
ORLANDO, FLORIDA 32804
CERTIFICATE OF AUTHORIZATION NO. 26379
JUAN A. VALENZUELA, P.E. NO. 68208

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
S-2	SIGNATURE SHEET
S-24	CANTILEVER SIGN STRUCTURE DATA TABLE

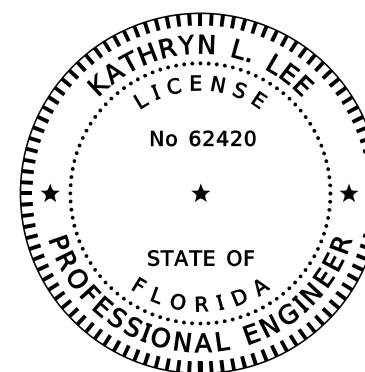


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ANTILLIAN ENGINEERING ASSOCIATES, INC.
3331 BARTLETT BLVD.
ORLANDO, FLORIDA 32811
CERTIFICATE OF AUTHORIZATION NO. EB6685
PETER G. SUAH, P.E. NO. 46910

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
S-2	SIGNATURE SHEET
S-25	REPORT OF SPT BORING FOR SIGN



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

VANASSE HANGEN BRUSTLIN, INC
225 E. ROBINSON ST, SUITE 300
LANDMARK CENTER TWO
ORLANDO, FLORIDA 32801
CERTIFICATE OF AUTHORIZATION NO. 3932
KATHRYN L. LEE, P.E. NO. 62420

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
S-2	SIGNATURE SHEET
S-22	GUIDE SIGN WORKSHEET
S-26	PAY ITEM NOTES
S-27	GENERAL NOTES
S-28 TO S-29	LIGHTING PLANS
S-30	LED SIGN DETAILS

REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-3-52-01		

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		S-13		S-14		S-15		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF																								
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE)	LF																								
635-2-11	PULL & SPLICE BOX (F&I) (13"x24" COVER)	EA																								
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	1.00		6.00		2.00				1.00		2.00		1.00		4.00		4.00		4.00				25.00	
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS			1.00		2.00				3.00				2.00										8.00	
0700 1 50	SINGLE POST SIGN, RELOCATE	AS																						3.00	3.00	
0700 1 60	SINGLE POST SIGN, REMOVE	AS	3.00		4.00		2.00						1.00		1.00		4.00							3.00	18.00	
0700 2 50	MULTI- POST SIGN, F&I GROUND MOUNT, RELOCATE	AS																					1.00		1.00	
0700 4114	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, CANTILEVER, 41-50 FT	EA																	1.00						1.00	
0705 10 1	OBJECT MARKER, TYPE 1	EA																						2.00	2.00	
0705 11 1	DELINEATOR, FLEXIBLE TUBULAR	EA			1.00		1.00				2.00				4.00										8.00	
0710 90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS																								
*	RETRO-REFLECTIVE PAVEMENT MARKER	EA	30.00		77.00		74.00		52.00		69.00		56.00		76.00		62.00		81.00		119.00				696.00	
*	REFLECTIVE PAVEMENT MARKERS (W/R)	EA	30.00		77.00		62.00		52.00		69.00		56.00		76.00		62.00		81.00		119.00				684.00	
*	PAINT, WHITE, SOLID, 6"	GM	0.23		0.31		0.35		0.42		0.46		0.42		0.36		0.45		0.51		0.58				4.08	
*	PAINT, WHITE, SOLID, 8"	GM									0.01				0.02						0.02				0.04	
*	PAINT, WHITE, SOLID, CROSSWALK/ROUNDOABOUT, 12"	LF			119.80		306.00				126.60				266.30		169.80		186.20		916.60				2091.30	
*	PAINT, WHITE, SOLID, DIAGONALS/CHEVRONS, 18"	LF									9.50				18.60						17.00				45.10	
*	PAINT, WHITE, SOLID, STOP LINES/CROSSWALK, 24"	LF			16.90		59.50				24.00				48.20		28.40		37.90		850.10				1065.00	
*	PAINT, WHITE, SKIP/DOTTED, 6" (10/30)	GM	0.22		0.38		0.38		0.42		0.43		0.40		0.41		0.42		0.39		0.21				3.68	
*	PAINT, WHITE, EXTENSION, 6" (6/10)	GM	0.00		0.13		0.07				0.02				0.07		0.02		0.07						0.37	
*	PAINT, MESSAGE OR SYMBOL (SCHOOL)	EA			1.00						1.00				1.00										3.00	
*	PAINT, ARROWS (LEFT)	EA			5.00		3.00				4.00				4.00		3.00		4.00		13.00				36.00	
*	PAINT, YELLOW, SOLID, 6"	GM	0.11		0.23		0.21		0.21		0.20		0.21		0.23		0.21		0.21		0.20				2.02	
*	PAINT, YELLOW, SOLID, DIAGONALS/CHEVRONS, 18"	LF			27.00																				27.00	
0711 11123	THERMOPLASTIC, WHITE, SOLID FOR CROSSWALK AND ROUNDOABOUT, 12"	LF			119.80		306.00				126.60				266.30		169.80		186.20		916.60				2091.30	
0711 11124	THERMOPLASTIC, WHITE, SOLID FOR DIAGONALS AND CHEVRONS, 18"	LF									9.50				18.60						17.00				45.10	
0711 11125	THERMOPLASTIC, WHITE, SOLID FOR STOP LINE AND CROSSWALK, 24"	LF			16.90		59.50				24.00				48.20		28.40		37.90		850.10				1065.00	
0711 11141	THERMOPLASTIC, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM			0.13		0.07				0.02				0.07		0.02		0.07						0.37	
0711 11160	THERMOPLASTIC, MESSAGE OR SYMBOL (SCHOOL)	EA			1.00						1.00				1.00										3.00	
0711 11170	THERMOPLASTIC, ARROWS	EA			5.00		3.00				4.00				4.00		3.00		4.00		13.00				36.00	
0711 11224	THERMOPLASTIC, YELLOW, SOLID FOR DIAGONALS AND CHEVRONS, 18"	LF			27.00																				27.00	
0711 14160	THERMOPLASTIC, PREFORMED, MESSAGE	EA	1.00		3.00		2.00				2.00				3.00				1.00		5.00				17.00	
0711 14170	THERMOPLASTIC, PREFORMED, ARROWS (BIKE THRU ARROW)	EA	1.00		3.00		2.00				2.00				3.00				1.00		5.00				17.00	
0711 16101	THERMOPLASTIC, STD - OTHER SURFACES, WHITE, SOLID, 6"	GM	0.23		0.31		0.35		0.42		0.46		0.42		0.36		0.45		0.51		0.57				4.07	
0711 16102	THERMOPLASTIC, STD - OTHER SURFACES, WHITE, SOLID, 8"	GM									0.01				0.02						0.02				0.04	
0711 16131	THERMOPLASTIC, WHITE, SKIP/DOTTED, 6" (10/30)	GM	0.22		0.38		0.38		0.42		0.43		0.40		0.41		0.42		0.39		0.21				3.68	
0711 16201	THERMOPLASTIC, STD - OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.11		0.23		0.21		0.21		0.20		0.21		0.23		0.21		0.21		0.20				2.02	
0711 16231	THERMOPLASTIC, YELLOW, SKIP/DOTTED, 6" (10/30)	GM																								
715-1-11	LIGHTING CONDUCTORS (F&I) (NO. 10 OR LESS)	LF																								
715-5-11	LUMINAIRE & BRACKET ARM, F&I, ALUMINUM	EA																								

* 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.

REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-3-52-01		S-3

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-16		S-17		S-18		S-19		S-20		S-21		S-28		S-29		PLAN	FINAL	PLAN	FINAL				
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL								
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF																					286.00	505.00	791.00	791.00
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE)	LF																					238.00	44.00	282.00	282.00
635-2-11	PULL & SPLICE BOX (F&I) (13"x24" COVER)	EA																					4.00	3.00	7.00	7.00
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	3.00		1.00		1.00		1.00		4.00														10.00	35.00
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS																								8.00
0700 1 50	SINGLE POST SIGN, RELOCATE	AS									1.00														1.00	4.00
0700 1 60	SINGLE POST SIGN, REMOVE	AS	1.00				1.00		1.00		3.00														6.00	24.00
0700 2 50	MULTI- POST SIGN, F&I GROUND MOUNT, RELOCATE	AS																								1.00
0700 4114	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, CANTILEVER, 41-50 FT	EA																								1.00
0705 10 1	OBJECT MARKER, TYPE 1	EA																								2.00
0705 11 1	DELINEATOR, FLEXIBLE TUBULAR	EA																								8.00
0710 90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS																								1.00
*	RETRO-REFLECTIVE PAVEMENT MARKER	EA	42.00		12.00		66.00		206.00		90.00		23.00												439.00	1135.00
*	REFLECTIVE PAVEMENT MARKERS (W/R)	EA	42.00				46.00		66.00				7.00												161.00	845.00
*	PAINT, WHITE, SOLID, 6"	GM	0.17		0.17		0.11		0.32		0.21		0.09												1.06	5.14
*	PAINT, WHITE, SOLID, 8"	GM																								0.04
*	PAINT, WHITE, SOLID, CROSSWALK/ROUNDBOUT, 12"	LF	93.42																						93.42	2185
*	PAINT, WHITE, SOLID, DIAGONALS/CHEVRONS, 18"	LF																								45
*	PAINT, WHITE, SOLID, STOP LINES/CROSSWALK, 24"	LF	16.65		65.25		32.75				40.50														155.15	1220.15
*	PAINT, WHITE, SKIP/DOTTED, 6" (10/30)	GM	0.20																						0.20	3.88
*	PAINT, WHITE, EXTENSION, 6" (6/10)	GM	0.04		0.07		0.02		0.05		0.02		0.00												0.20	0.58
*	PAINT, MESSAGE OR SYMBOL	EA			1.00		1.00				1.00														3.00	6
*	PAINT, ARROWS (LEFT)	EA	3.00				3.00		6.00				2.00												14.00	50
*	PAINT, YELLOW, SOLID, 6"	GM	0.10		0.25		0.09		0.31		0.35		0.06												1.17	3.191
*	PAINT, YELLOW, SOLID, DIAGONALS/CHEVRONS, 18"	LF			77.60		36.40		167.80		99.00														380.80	408
0711 11123	THERMOPLASTIC, WHITE, SOLID FOR CROSSWALK AND ROUNDBOUT, 12"	LF	93.42																						93.42	2185
0711 11124	THERMOPLASTIC, WHITE, SOLID FOR DIAGONALS AND CHEVRONS, 18"	LF																								45.10
0711 11125	THERMOPLASTIC, WHITE, SOLID FOR STOP LINE AND CROSSWALK, 24"	LF	16.65		65.25		81.80				40.50														204.20	1269.20
0711 11141	THERMOPLASTIC, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.04		0.07		0.04		0.05		0.02		0.00												0.22	0.587
0711 11160	THERMOPLASTIC, MESSAGE OR SYMBOL	EA			1.00		1.00				1.00														3.00	6
0711 11170	THERMOPLASTIC, ARROWS	EA	3.00				3.00		6.00				2.00												14.00	50
0711 11224	THERMOPLASTIC, YELLOW, SOLID FOR DIAGONALS AND CHEVRONS, 18"	LF			77.60		78.10		167.80		99.00														422.50	450
0711 14160	THERMOPLASTIC, PREFORMED, MESSAGE	EA			1.00		4.00		2.00		2.00														9.00	26
0711 14170	THERMOPLASTIC, PREFORMED, ARROWS (BIKE THRU ARROW)	EA			2.00		3.00		2.00		2.00														9.00	26
0711 16101	THERMOPLASTIC, STD - OTHER SURFACES, WHITE, SOLID, 6"	GM	0.17		0.17		0.21		0.32		0.21		0.09												1.16	5.231
0711 16102	THERMOPLASTIC, STD - OTHER SURFACES, WHITE, SOLID, 8"	GM																								0.043
0711 16131	THERMOPLASTIC, WHITE, SKIP/DOTTED, 6" (10/30)	GM	0.20																						0.20	3.878
0711 16201	THERMOPLASTIC, STD - OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.10		0.25		0.28		0.31		0.35		0.06												1.36	3.380
0711 16231	THERMOPLASTIC, YELLOW, SKIP/DOTTED, 6" (10/30)	GM					0.05																		0.05	0.046
715-1-11	LIGHTING CONDUCTORS (F&I) (NO. 10 OR LESS)	LF																							1566.00	1638.00
715-5-11	LUMINAIRE & BRACKET ARM, F&I, ALUMINUM	EA																							2.00	2.00

* 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.

<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					LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856			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>46</td> <td>LAKE</td> <td>238275-3-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	46	LAKE	238275-3-52-01	SHEET NO. S-4	
REVISIONS																													
DATE	DESCRIPTION	DATE	DESCRIPTION																										
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																											
46	LAKE	238275-3-52-01																											

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GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS. IF SIGNS ARE DAMAGED BY THE CONTRACTOR, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. SIDE ROAD STOP BAR LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION TO OBTAIN PROPER SIGHT DISTANCE.
3. FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS, REFER TO FDOT DESIGN STANDARDS, INDEX NO. 17352.
4. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS. EXISTING SIGNS SHOWN FOR INFORMATION ONLY.
5. ALL CALLOUTS ARE TO CENTERLINE OF CONSTRUCTION SR 46 UNLESS OTHERWISE NOTED.
6. ALL REMOVED SIGNS AND THEIR SUPPORTS BECOME THE PROPERTY OF THE CONTRACTOR TO BE DISPOSED OF PROPERLY UNLESS OTHERWISE NOTED.
7. THE LANE WIDTH DIMENSIONS SHOWN IN THE SIGNING AND PAVEMENT MARKING PLANS REFLECT THE NORMAL LANE WIDTHS, NOT THE DISTANCE BETWEEN THE STRIPES. SEE INDEX 17346 FOR PLACEMENT OF LANE LINES.
8. THE CONTRACTOR IS TO CONTACT JULIE BLACKWELDER, STRUCTURES MAINTENANCE, 386-740-3454 PRIOR TO COMPLETION OF THE PROJECT FOR INSPECTION OF THE OVERHEAD SIGN STRUCTURE.

PAY ITEM FOOTNOTES

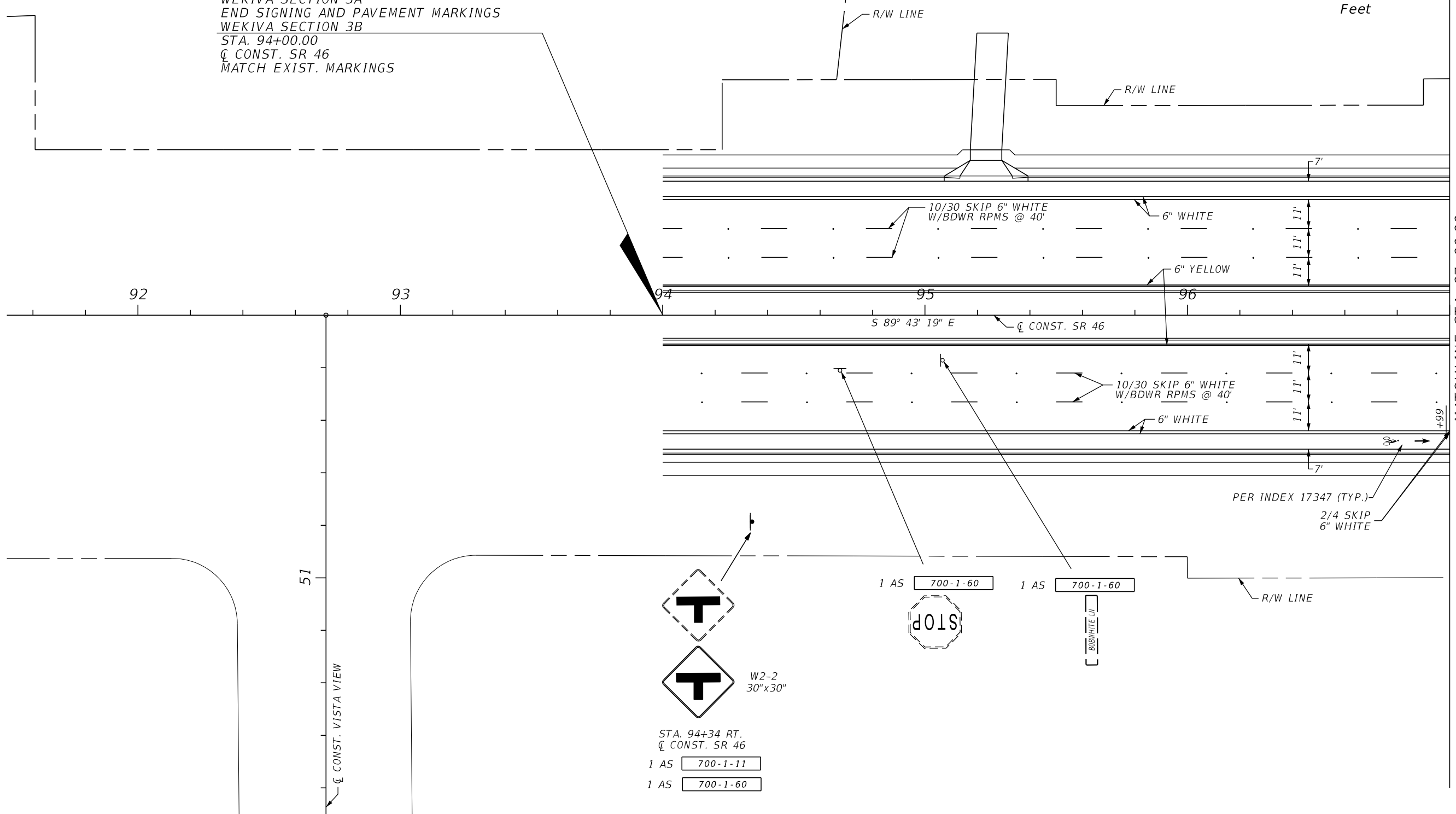
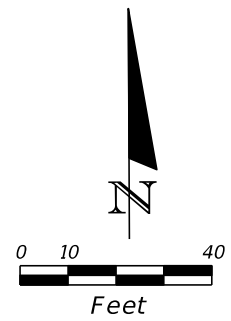
- 700-1-11 INCLUDES THE COST OF RELOCATING STREET NAME SIGNS TO THE NEW SIGN ASSEMBLY USING A POST TOP SLIP FITTER AT THE LOCATIONS SHOWN IN THE PLANS. ALL ADDITIONAL COSTS AND HARDWARE NECESSARY, INCLUDING RE-DRILLING OF THE SIGNS, SHALL BE INCLUDED IN THIS PAY ITEM.
- 700-1-12
- 705-11-1 INCLUDES THE REMOVAL OF ALL DELINEATORS WITHIN THE PROJECT LIMITS.

RPM LEGEND:

BDWR = BI-DIRECTIONAL WHITE/RED
 BDY = BI-DIRECTIONAL YELLOW

REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-5
					46	LAKE	238275-3-52-01		

BEGIN PROJECT
 BEGIN SIGNING AND PAVEMENT MARKINGS
 WEKIVA SECTION 3A
 END SIGNING AND PAVEMENT MARKINGS
 WEKIVA SECTION 3B
 STA. 94+00.00
 Q CONST. SR 46
 MATCH EXIST. MARKINGS



MATCHLINE STA. 97+00.00

- 1 AS 700-1-60
- 1 AS 700-1-60
- 1 AS 700-1-11
- 1 AS 700-1-60

51
Q CONST. VISTA VIEW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHRANE ENGINEERING, INC.
 201 SOUTH BUMBAY AVENUE
 ORLANDO, FLORIDA 32803
 (407) 896-3317
 BRET W. BENNETT, P.E.
 P.E. NUMBER 53977
 CERTIFICATE OF AUTHORIZATION NO. 2856

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-3-52-01

**SIGNING AND PAVEMENT
 MARKINGS PLAN SHEET (1)**

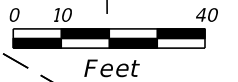
SHEET
 NO.
 S-6

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

STA. 98+93.65 \bar{C} CONST. SR 46 =
 STA. 64+39.83 \bar{C} CONST. TOP OF THE HILL DR.

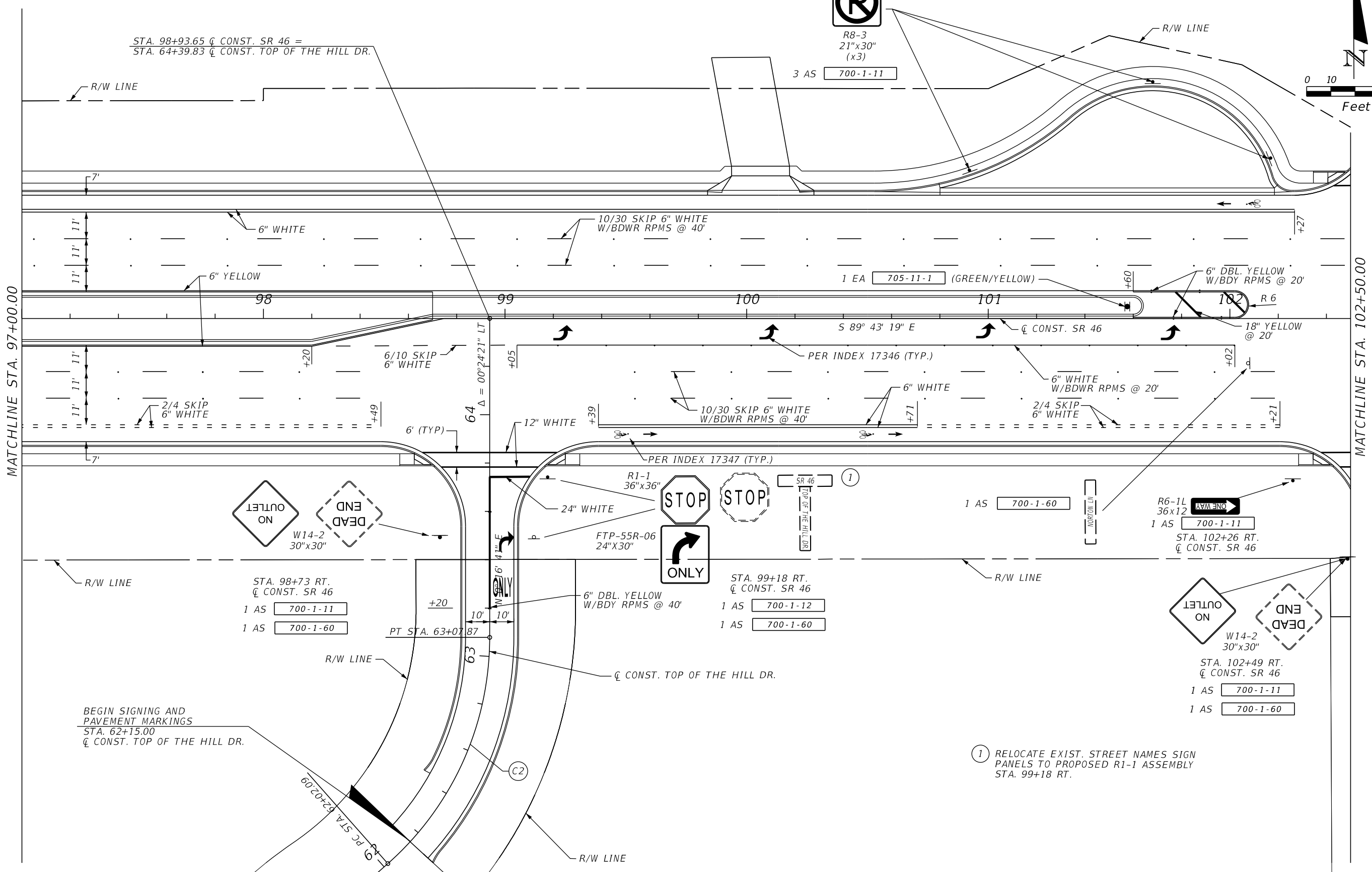


R8-3
 21"x30"
 (x3)
 3 AS 700-1-11

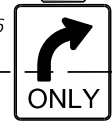


MATCHLINE STA. 97+00.00

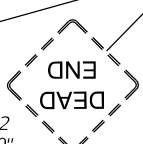
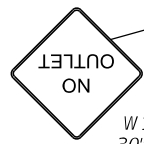
MATCHLINE STA. 102+50.00



STA. 98+73 RT.
 \bar{C} CONST. SR 46
 1 AS 700-1-11
 1 AS 700-1-60



STA. 99+18 RT.
 \bar{C} CONST. SR 46
 1 AS 700-1-12
 1 AS 700-1-60



STA. 102+49 RT.
 \bar{C} CONST. SR 46
 1 AS 700-1-11
 1 AS 700-1-60

① RELOCATE EXIST. STREET NAMES SIGN PANELS TO PROPOSED R1-1 ASSEMBLY STA. 99+18 RT.

BEGIN SIGNING AND PAVEMENT MARKINGS
 STA. 62+15.00
 \bar{C} CONST. TOP OF THE HILL DR.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHRANE ENGINEERING, INC.
 201 SOUTH BUMBY AVENUE
 ORLANDO, FLORIDA 32803
 (407) 896-3317
 BRETT W. BENNETT, P.E.
 P.E. NUMBER 53977
 CERTIFICATE OF AUTHORIZATION NO. 2856

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-3-52-01

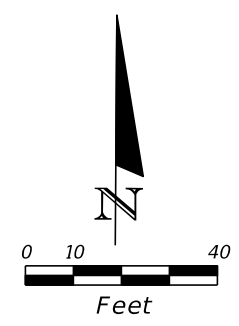
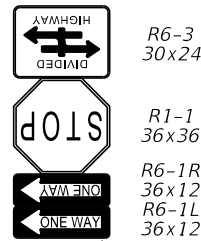
SIGNING AND PAVEMENT MARKINGS PLAN SHEET (2)

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.

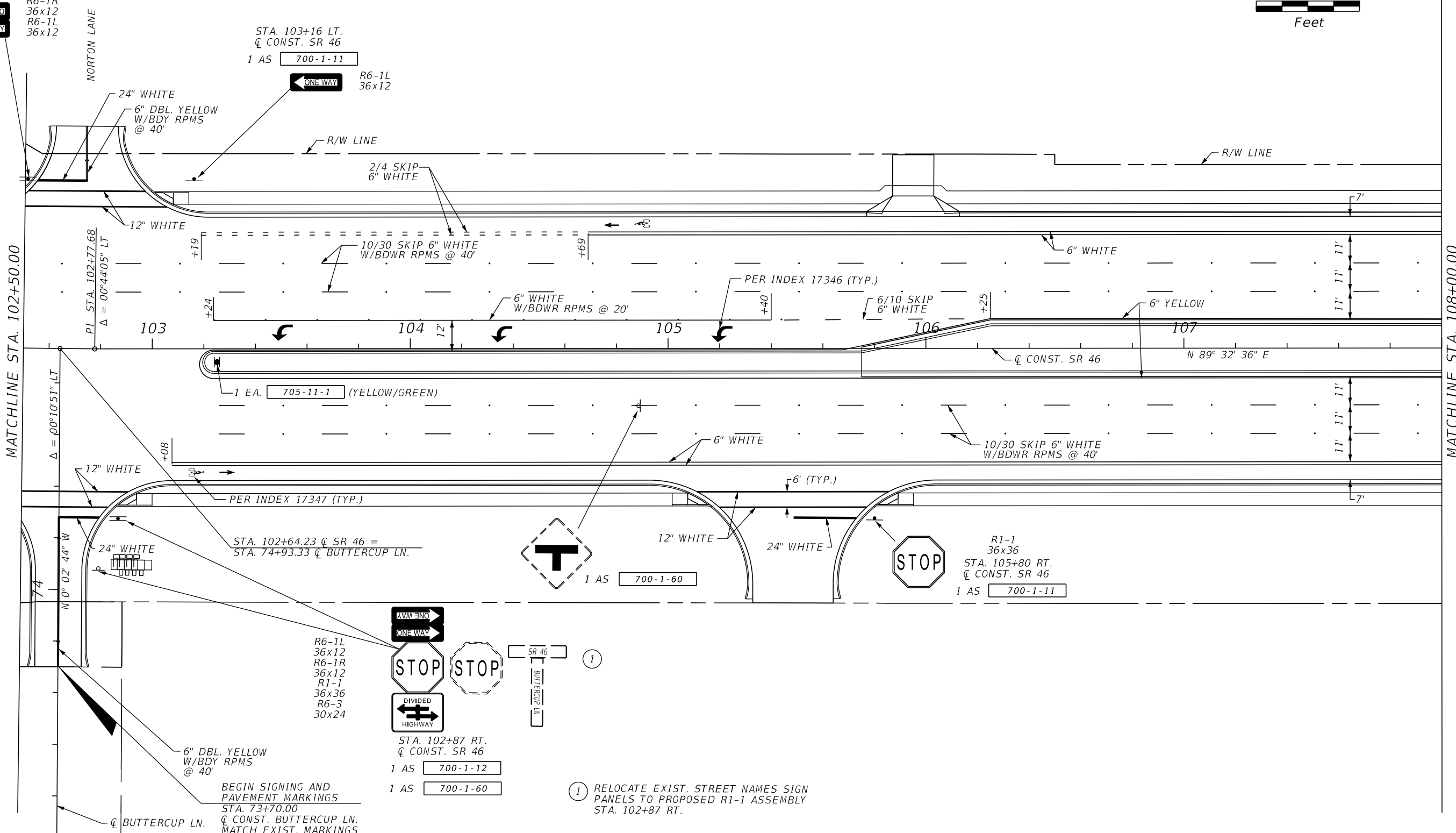
STA. 102+51 LT.
 Q CONST. SR 46

1 AS 700-1-12

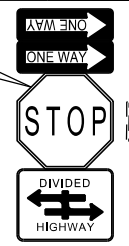


STA. 103+16 LT.
 Q CONST. SR 46

1 AS 700-1-11



R6-1L
 36x12
 R6-1R
 36x12
 R1-1
 36x36
 R6-3
 30x24



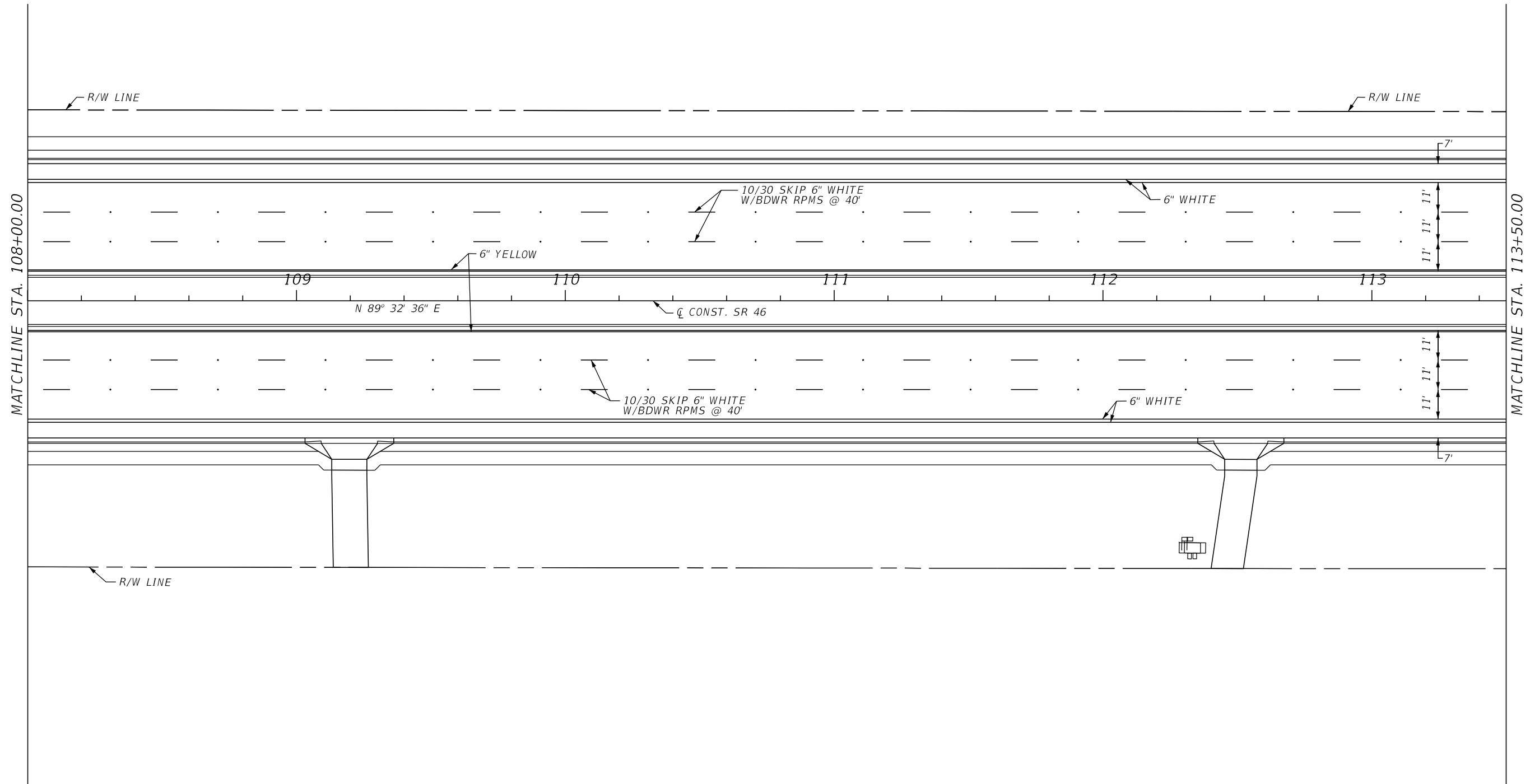
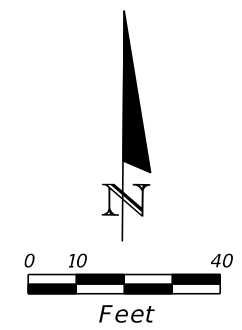
STA. 102+87 RT.
 Q CONST. SR 46
 1 AS 700-1-12
 1 AS 700-1-60

① RELOCATE EXIST. STREET NAMES SIGN
 PANELS TO PROPOSED R1-1 ASSEMBLY
 STA. 102+87 RT.

BEGIN SIGNING AND
 PAVEMENT MARKINGS
 STA. 73+70.00
 Q CONST. BUTTERCUP LN.
 MATCH EXIST. MARKINGS

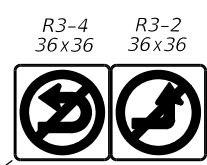
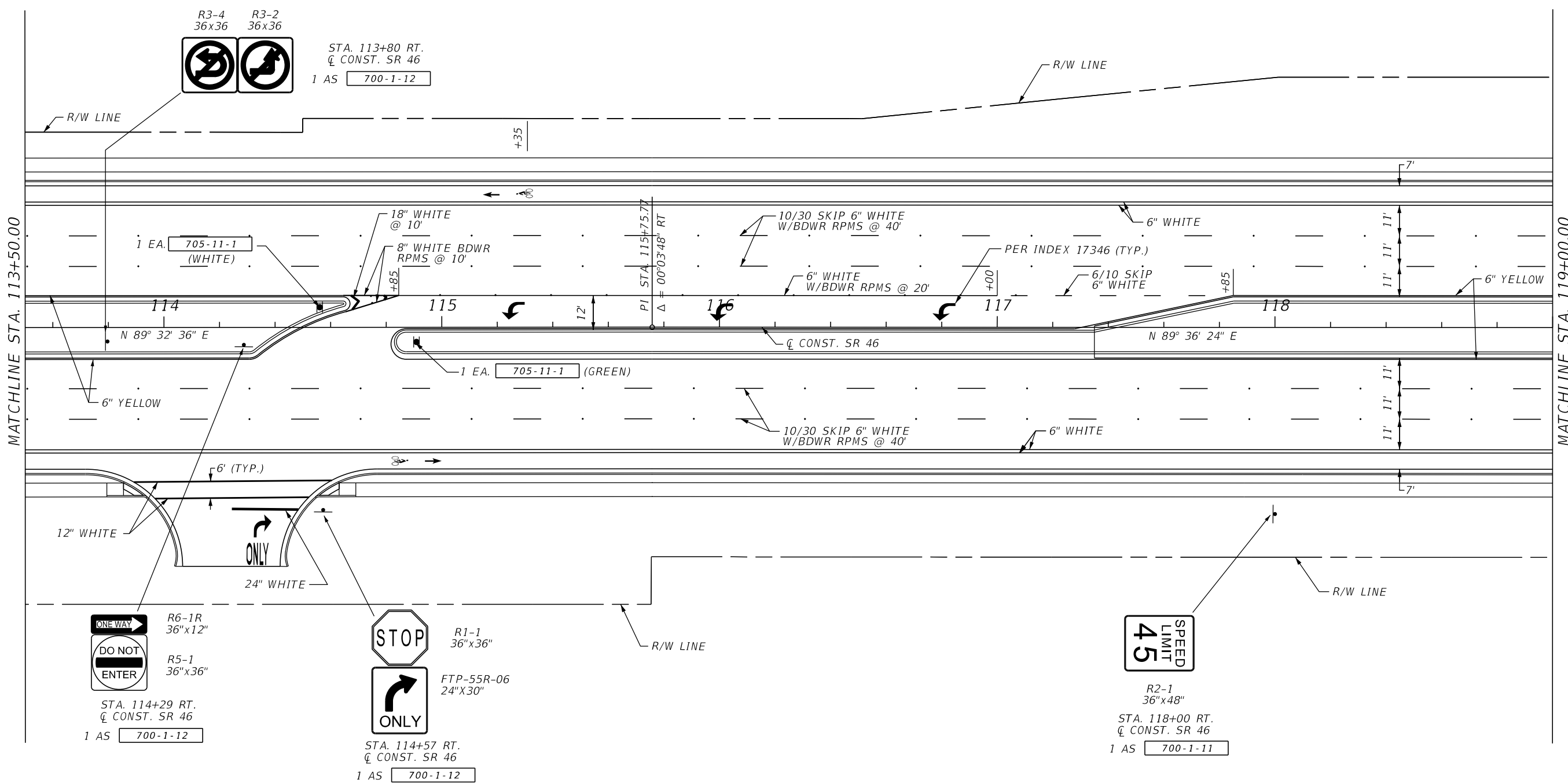
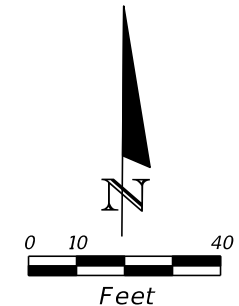
REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRETT W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. S-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					46	LAKE	238275-3-52-01	

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

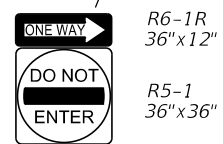


REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (4)	SHEET NO. S-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-3-52-01			

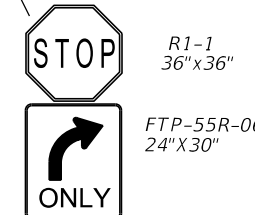
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 113+80 RT.
 Q CONST. SR 46
 1 AS 700-1-12



STA. 114+29 RT.
 Q CONST. SR 46
 1 AS 700-1-12



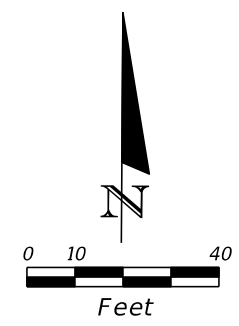
STA. 114+57 RT.
 Q CONST. SR 46
 1 AS 700-1-12



STA. 118+00 RT.
 Q CONST. SR 46
 1 AS 700-1-11

REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBAY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (5)	SHEET NO. S-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-3-52-01		

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

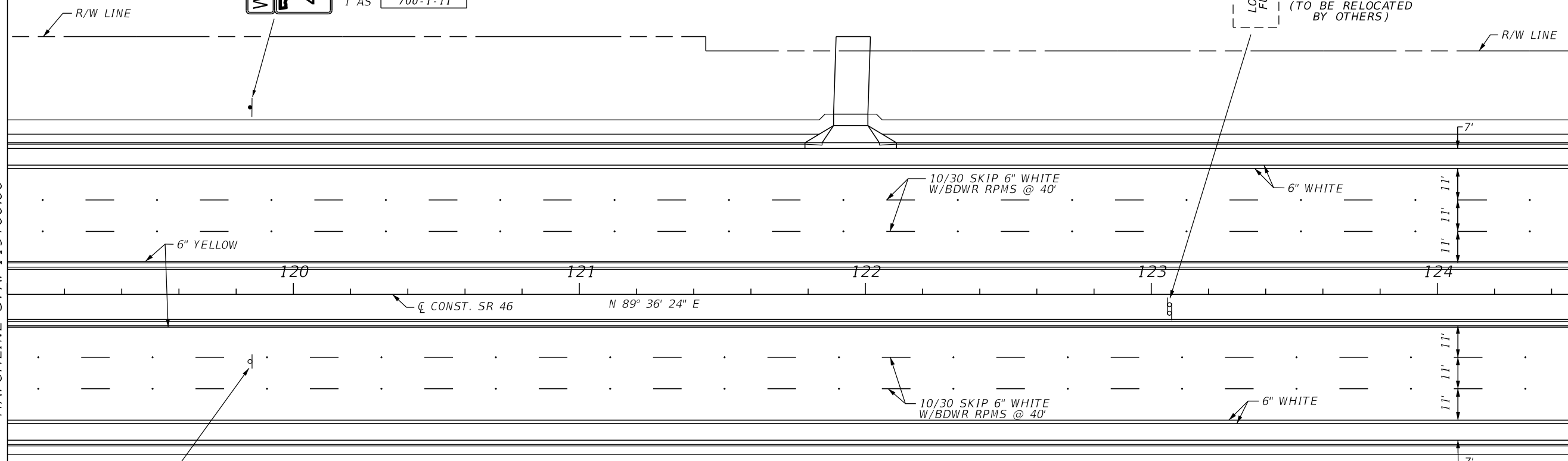


M3-4 FTP 17-06
24"x12" 24"x24"
WEST } 46
STA. 119+85 LT.
☉ CONST. SR 46
1 AS 700-1-11

LOOMIS FAMILY
FUNERAL HOME
PRIVATE SIGN
(TO BE RELOCATED
BY OTHERS)

MATCHLINE STA. 119+00.00

MATCHLINE STA. 124+50.00







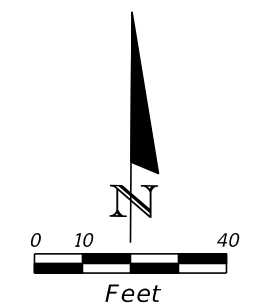
WEST } 46
1 AS 700-1-60

46 } EAST
FTP 17-06 M3-2
24"x24" 24"x12"
STA. 119+85 RT.
☉ CONST. SR 46
1 AS 700-1-11

REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (6)	SHEET NO. S-11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-3-52-01		

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

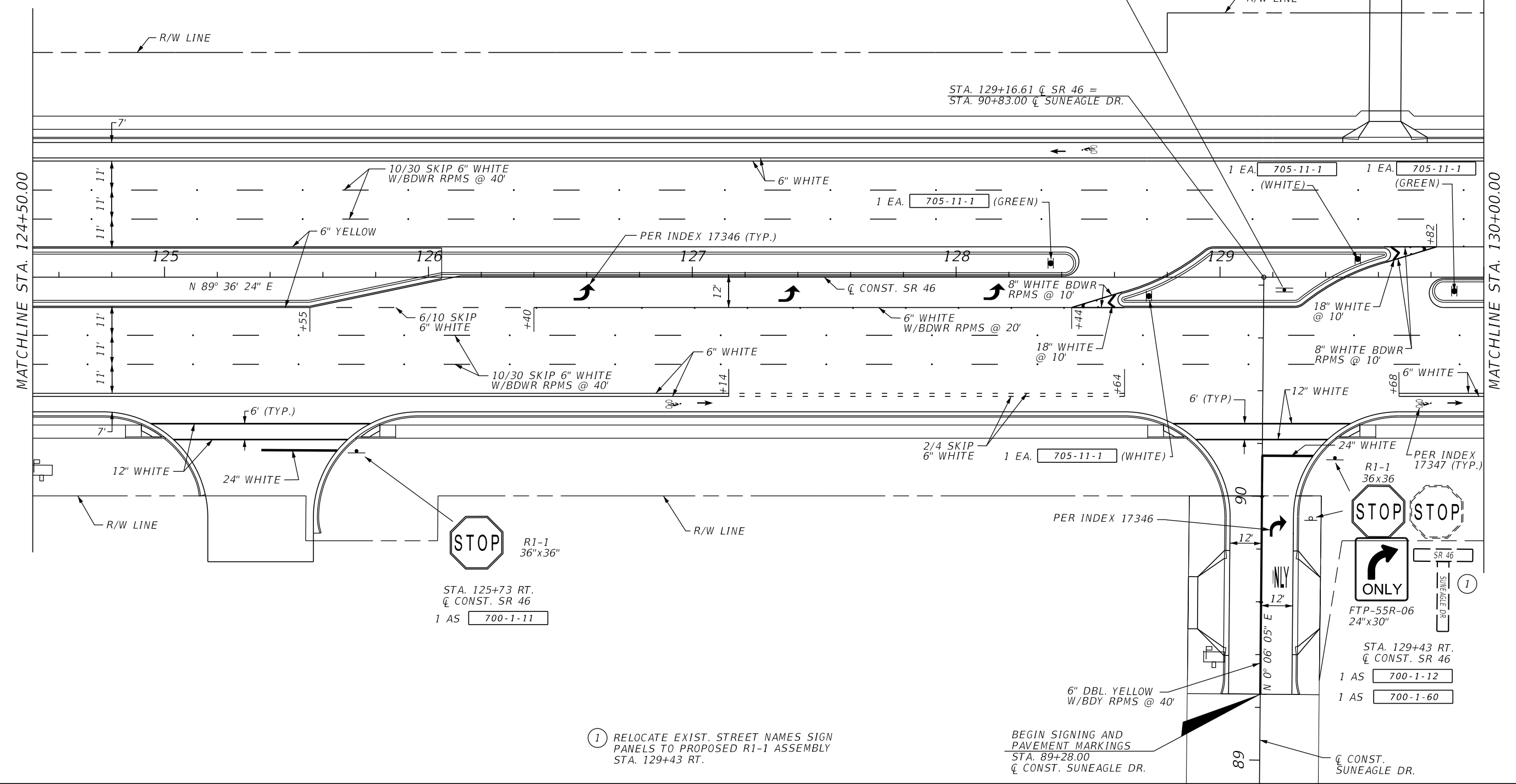
-  R5-1
36"x36"
-  R6-1R
36"x12"
-  R6-1R
36"x12"
-  R5-1
36"x36"




STA. 129+25 RT.
 Q CONST. SR 46

1 AS 700-1-12



STA. 129+16.61 Q SR 46 =
 STA. 90+83.00 Q SUNEAGLE DR.




 R1-1
36"x36"

STA. 125+73 RT.
 Q CONST. SR 46

1 AS 700-1-11



FTP-55R-06
24"x30"

SR 46
SUNEAGLE DR

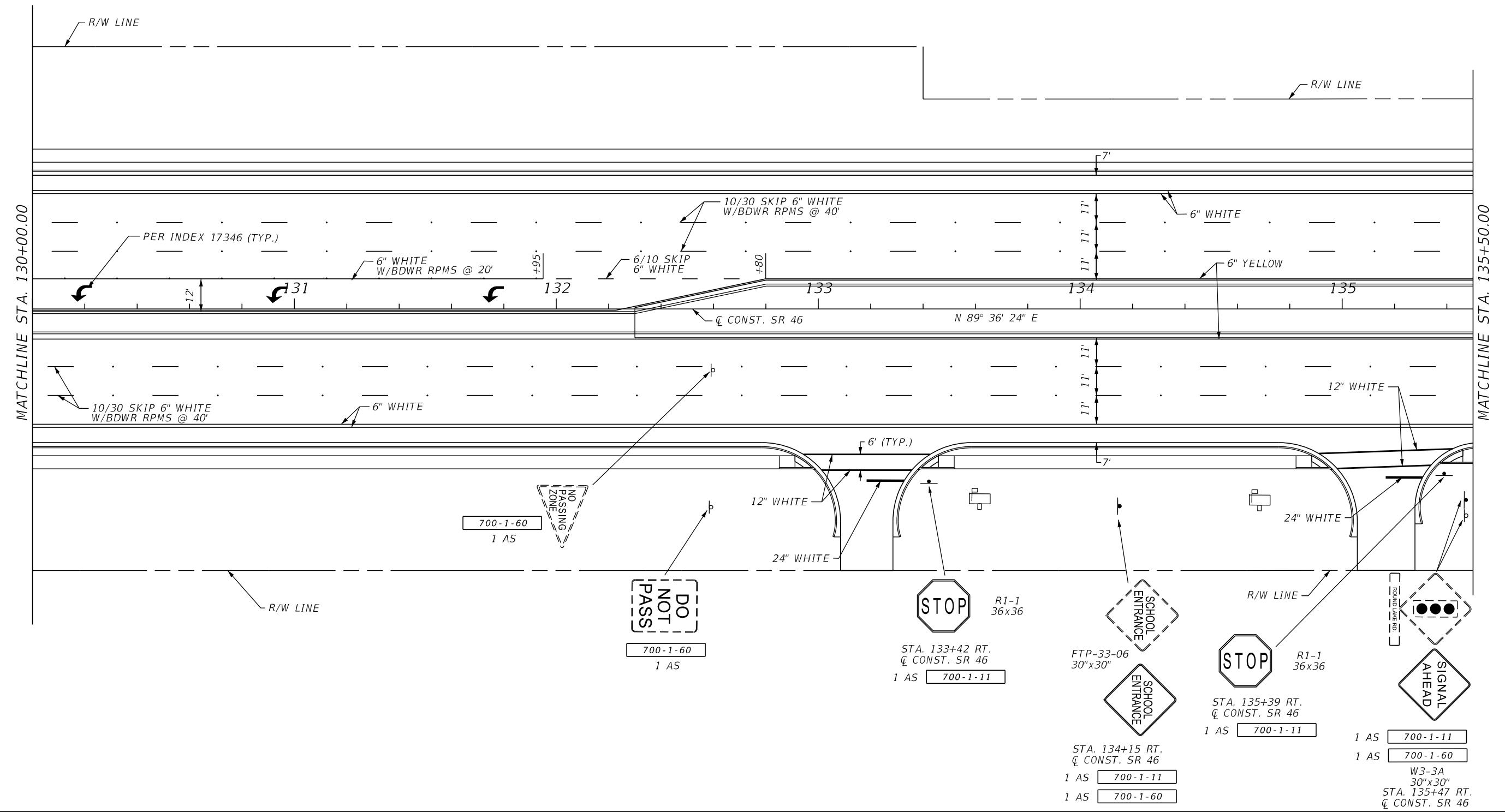
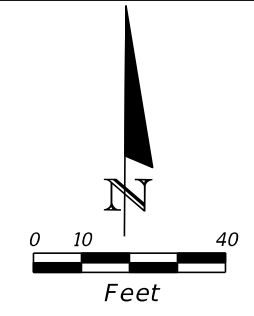
1

BEGIN SIGNING AND
 PAVEMENT MARKINGS
 STA. 89+28.00
 Q CONST. SUNEAGLE DR.

1) RELOCATE EXIST. STREET NAMES SIGN
 PANELS TO PROPOSED R1-1 ASSEMBLY
 STA. 129+43 RT.

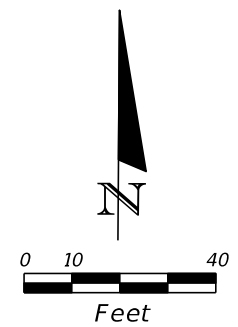
REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (7)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-12
				46	LAKE	238275-3-52-01			

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

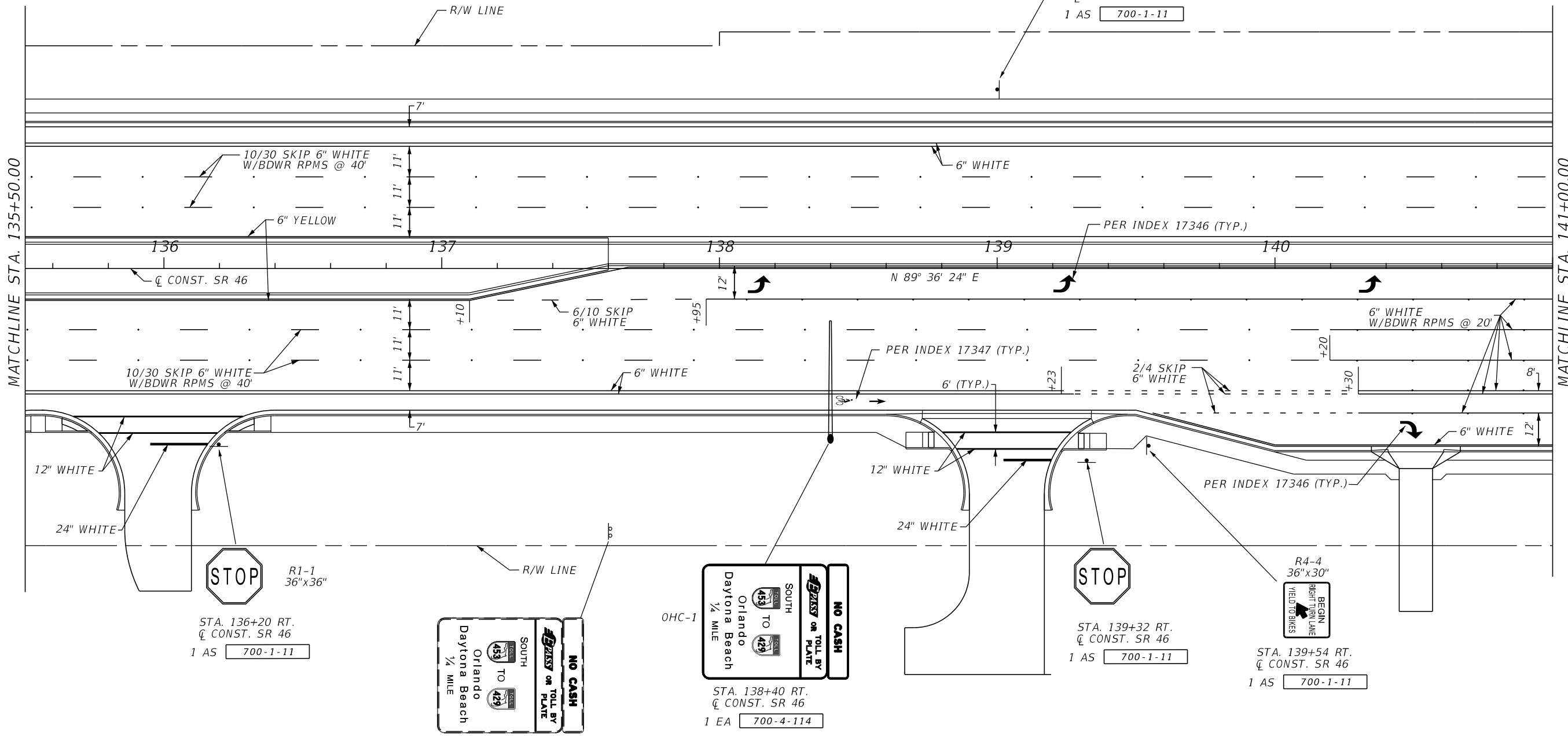


REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRETT W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (8)	SHEET NO. S-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-3-52-01			

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



SPEED LIMIT 45
 R2-1
 36"x48"
 STA. 139+00 LT.
 C. CONST. SR 46
 1 AS 700-1-11



STOP
 R1-1
 36"x36"
 STA. 136+20 RT.
 C. CONST. SR 46
 1 AS 700-1-11

NO CASH
FAST
 SOUTH
 ORLANDO
 DAYTONA BEACH
 1/4 MILE
 453 TO 429
 700-2-60

OHC-1
NO CASH
FAST
 SOUTH
 ORLANDO
 DAYTONA BEACH
 1/4 MILE
 453 TO 429

STA. 138+40 RT.
 C. CONST. SR 46
 1 EA 700-4-114
 SEE SHEETS S-21 TO S-22
 SEE PAY ITEM FOOTNOTES

STOP
 STA. 139+32 RT.
 C. CONST. SR 46
 1 AS 700-1-11

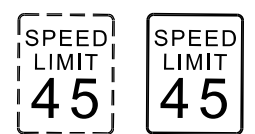
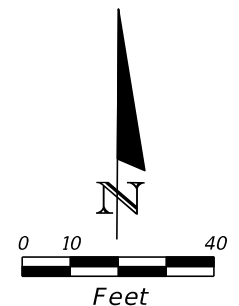
R4-4
 36"x30"
BEGIN
 RIGHT TURN LANE
 YIELD TO BIKES
 STA. 139+54 RT.
 C. CONST. SR 46
 1 AS 700-1-11

INSTALL EXISTING SIGN PANELS ON NEW
 CALTILEVER STRUCTURE STA. 138+40

REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. S-14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					46	LAKE	238275-3-52-01	

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

MATCHLINE STA. 110+00.00
SIGNING AND PAVEMENT MARKING SHEET 14



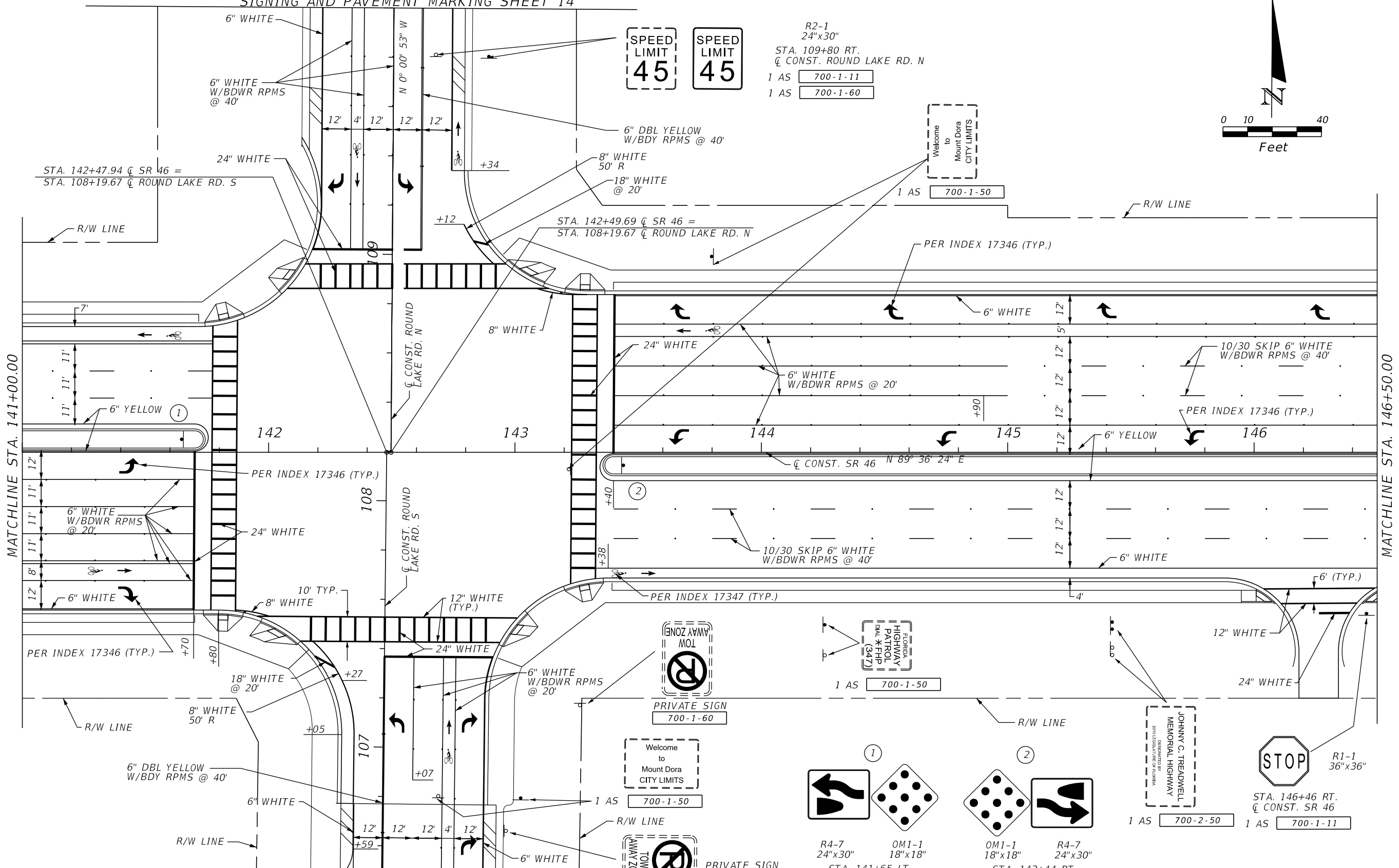
R2-1
24"x30"
STA. 109+80 RT.
Q CONST. ROUND LAKE RD. N
1 AS 700-1-11
1 AS 700-1-60



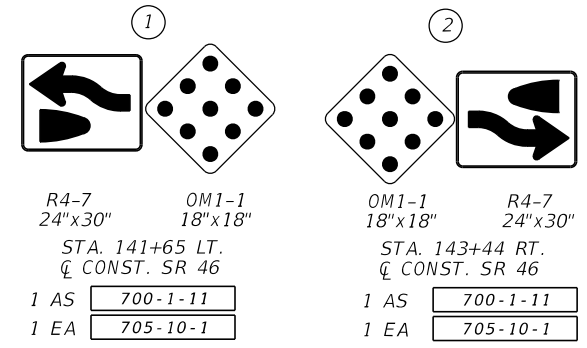
1 AS 700-1-50

MATCHLINE STA. 141+00.00

MATCHLINE STA. 146+50.00

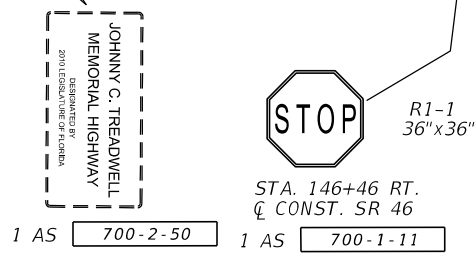


MATCHLINE STA. 106+50.00
SIGNING AND PAVEMENT MARKING SHEET 13



R4-7
24"x30"
STA. 141+65 LT.
Q CONST. SR 46
1 AS 700-1-11
1 EA 705-10-1

OM1-1
18"x18"
STA. 143+44 RT.
Q CONST. SR 46
1 AS 700-1-11
1 EA 705-10-1



1 AS 700-2-50

R1-1
36"x36"
STA. 146+46 RT.
Q CONST. SR 46
1 AS 700-1-11

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

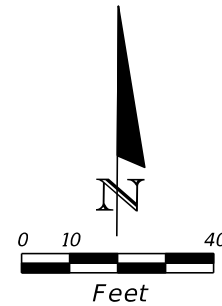
LOCHRANE ENGINEERING, INC.
201 SOUTH BUMBY AVENUE
ORLANDO, FLORIDA 32803
(407) 896-3317
BRET W. BENNETT, P.E.
P.E. NUMBER 53977
CERTIFICATE OF AUTHORIZATION NO. 2856

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-3-52-01

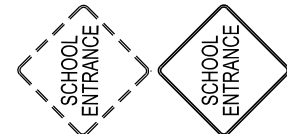
**SIGNING AND PAVEMENT
MARKINGS PLAN SHEET (10)**

SHEET NO.
S-15

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



END PROJECT
 END SIGNING AND PAVEMENT MARKINGS
 WEKIVA SECTION 3A
 MATCH EXISTING MARKINGS
 WEKIVA 2C/PROJECT 429-206
 STA. 149+00.00
 C CONST. SR 46



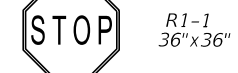
FTP-33-06
 30"x30"

STA. 147+67 LT.
 C CONST. SR 46
 1 AS 700-1-11
 1 AS 700-1-60

R4-4
 36"x30"

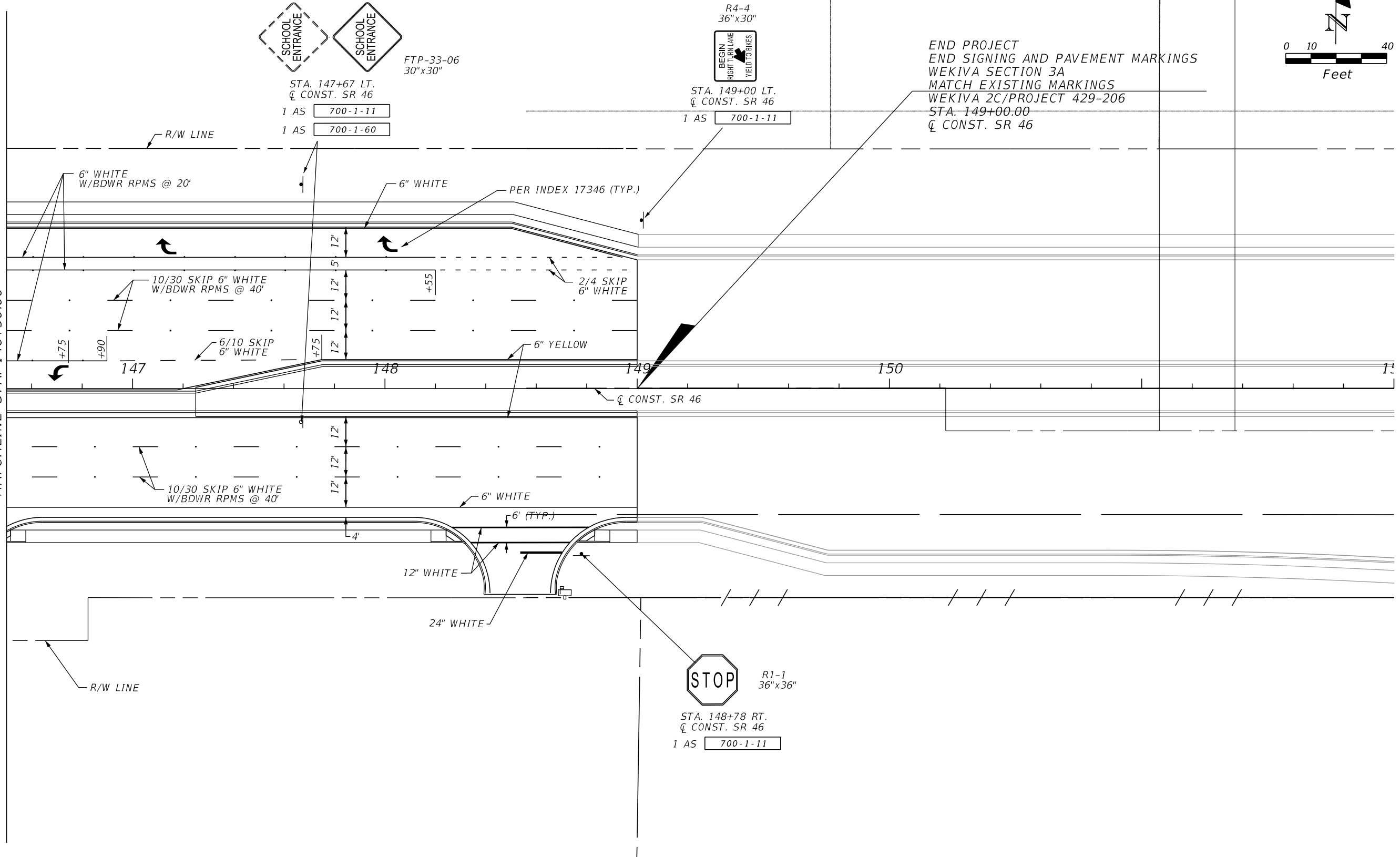


STA. 149+00 LT.
 C CONST. SR 46
 1 AS 700-1-11



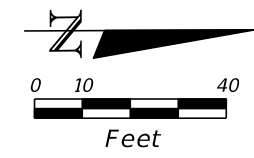
R1-1
 36"x36"
 STA. 148+78 RT.
 C CONST. SR 46
 1 AS 700-1-11

MATCHLINE STA. 146+50.00



REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (11)	SHEET NO. S-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-3-52-01		

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



BEGIN SIGNING AND PAVEMENT MARKINGS
 STA. 100+00.00
 C CONST. ROUND LAKE ROAD S
 MATCH EXISTING MARKINGS

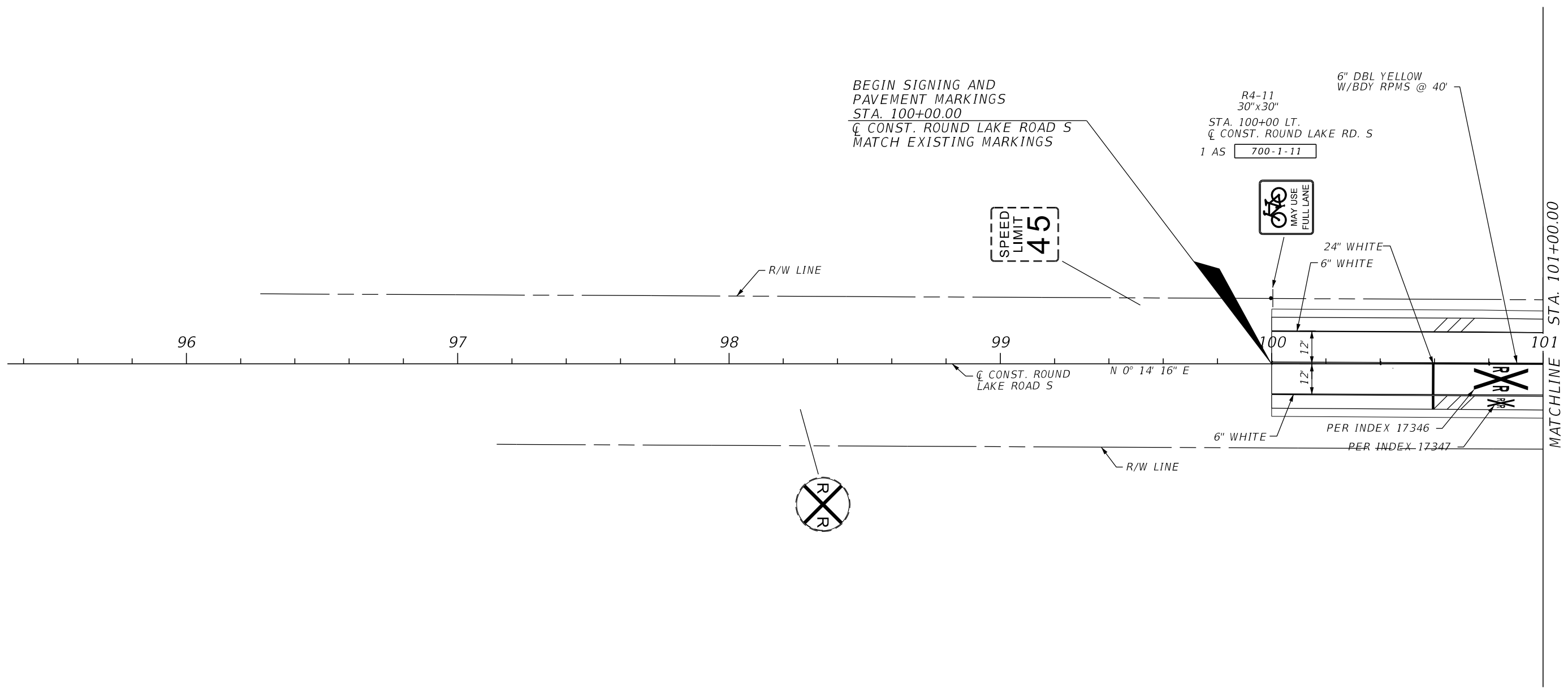
R4-11
 30"x30"
 STA. 100+00 LT.
 C CONST. ROUND LAKE RD. S
 1 AS 700-1-11
 6" DBL YELLOW
 W/BDY RPMS @ 40'

SPEED
 LIMIT
 45

MAY USE
 FULL LANE

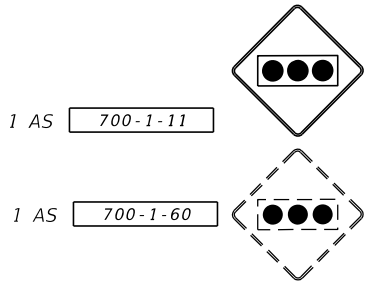
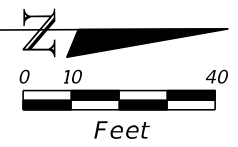
24" WHITE
 6" WHITE

STA. 101+00.00
 MATCHLINE



REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (12)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-17
				46	LAKE	238275-3-52-01			

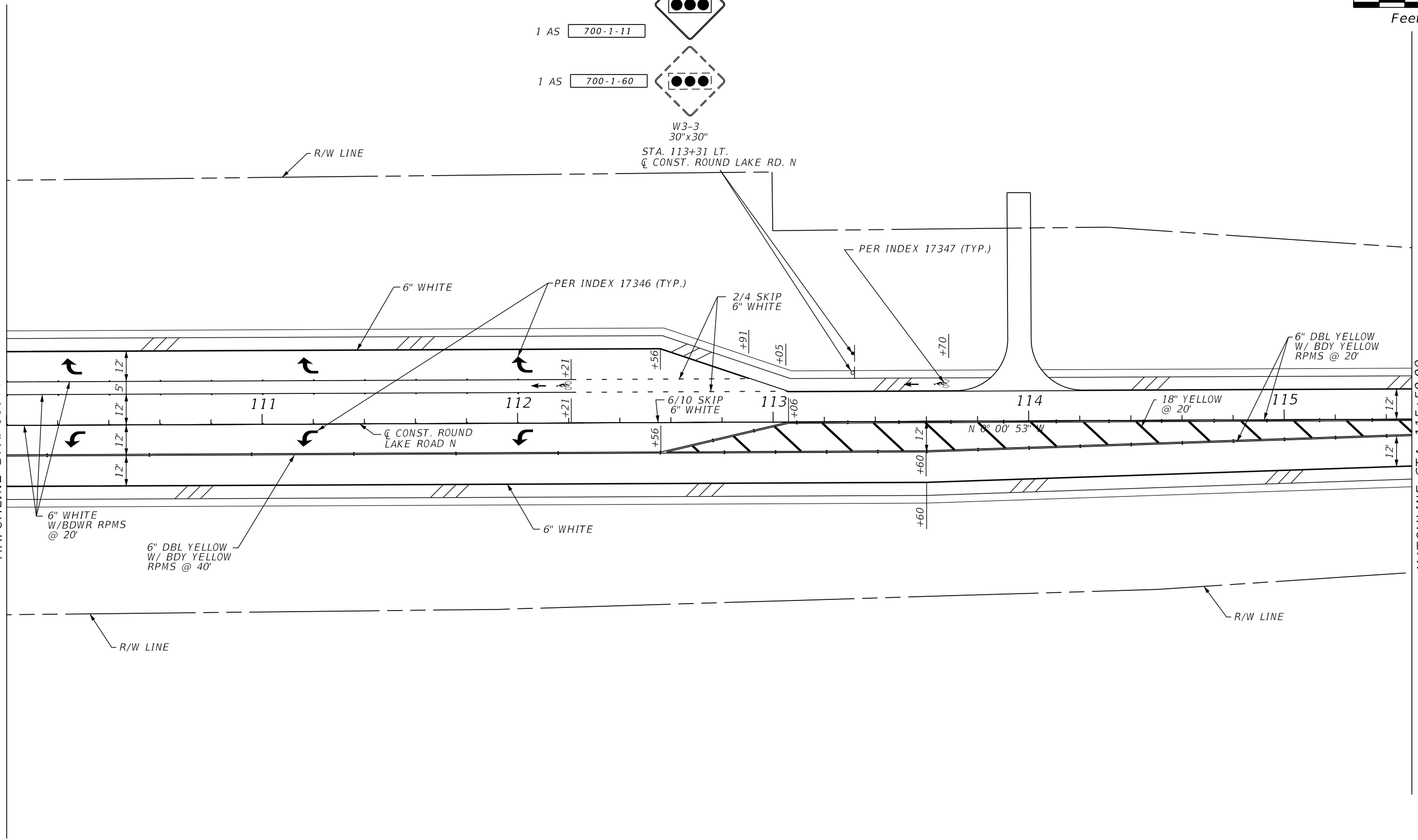
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



W3-3
30"x30"
STA. 113+31 LT.
C CONST. ROUND LAKE RD. N

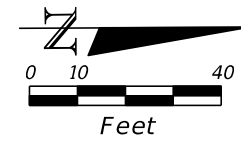
SIGNING AND PAVEMENT MARKINGS SHEET 10
MATCHLINE STA. 110+00.00

MATCHLINE STA. 115+50.00

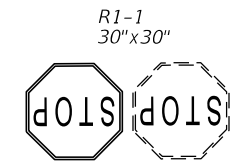
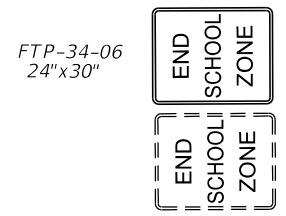


REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (14)	SHEET NO. S-19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-3-52-01		

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



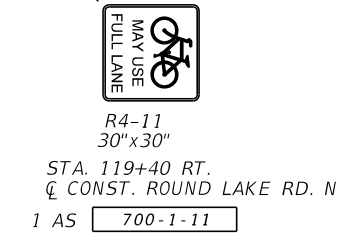
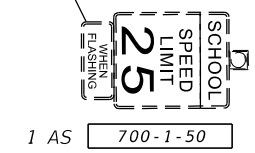
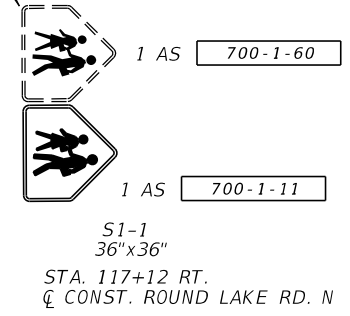
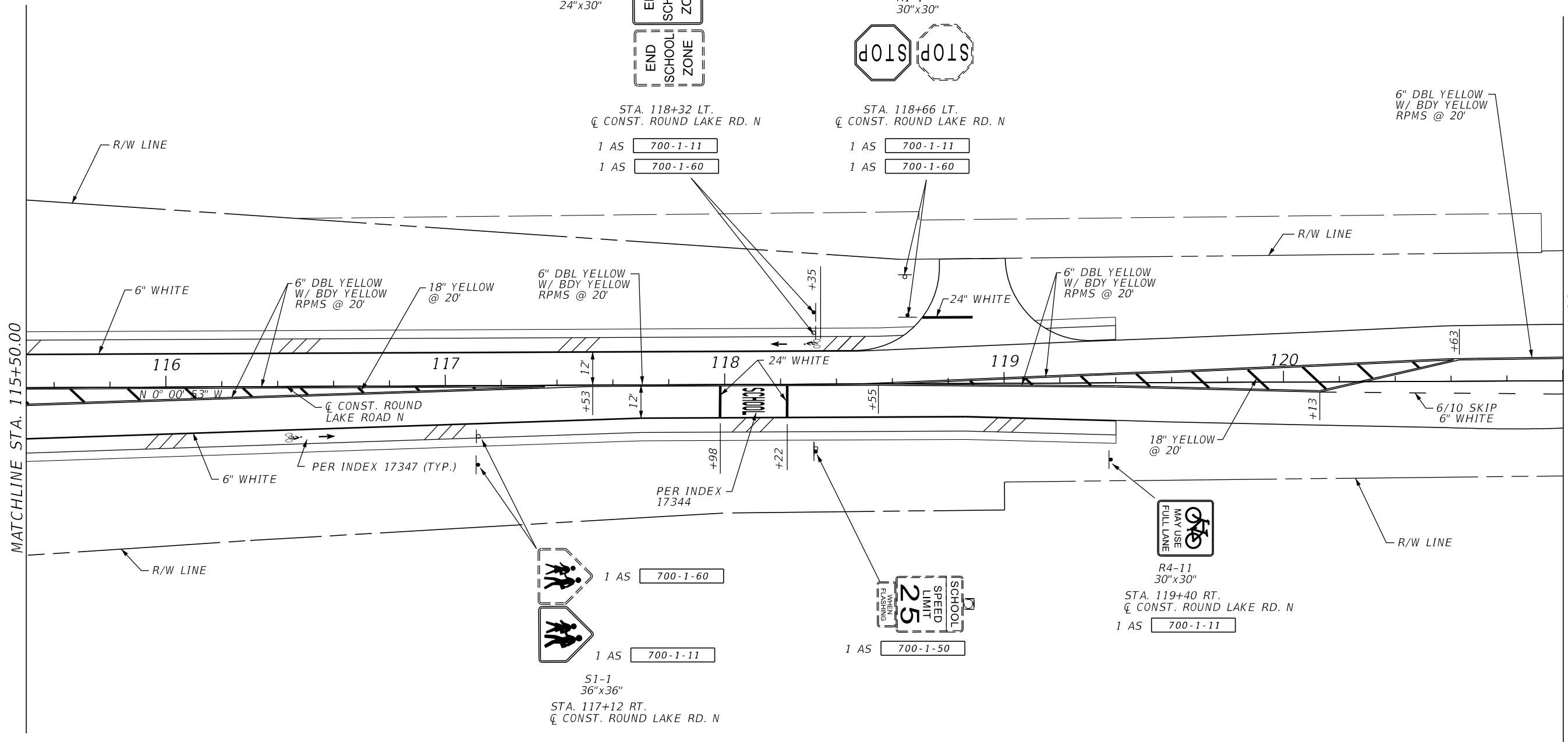
ROUND LAKE
ELEMENTARY SCHOOL



STA. 118+32 LT.
☐ CONST. ROUND LAKE RD. N
1 AS 700-1-11
1 AS 700-1-60

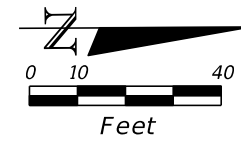
STA. 118+66 LT.
☐ CONST. ROUND LAKE RD. N
1 AS 700-1-11
1 AS 700-1-60

6" DBL YELLOW
W/ BDY YELLOW
RPMS @ 20'

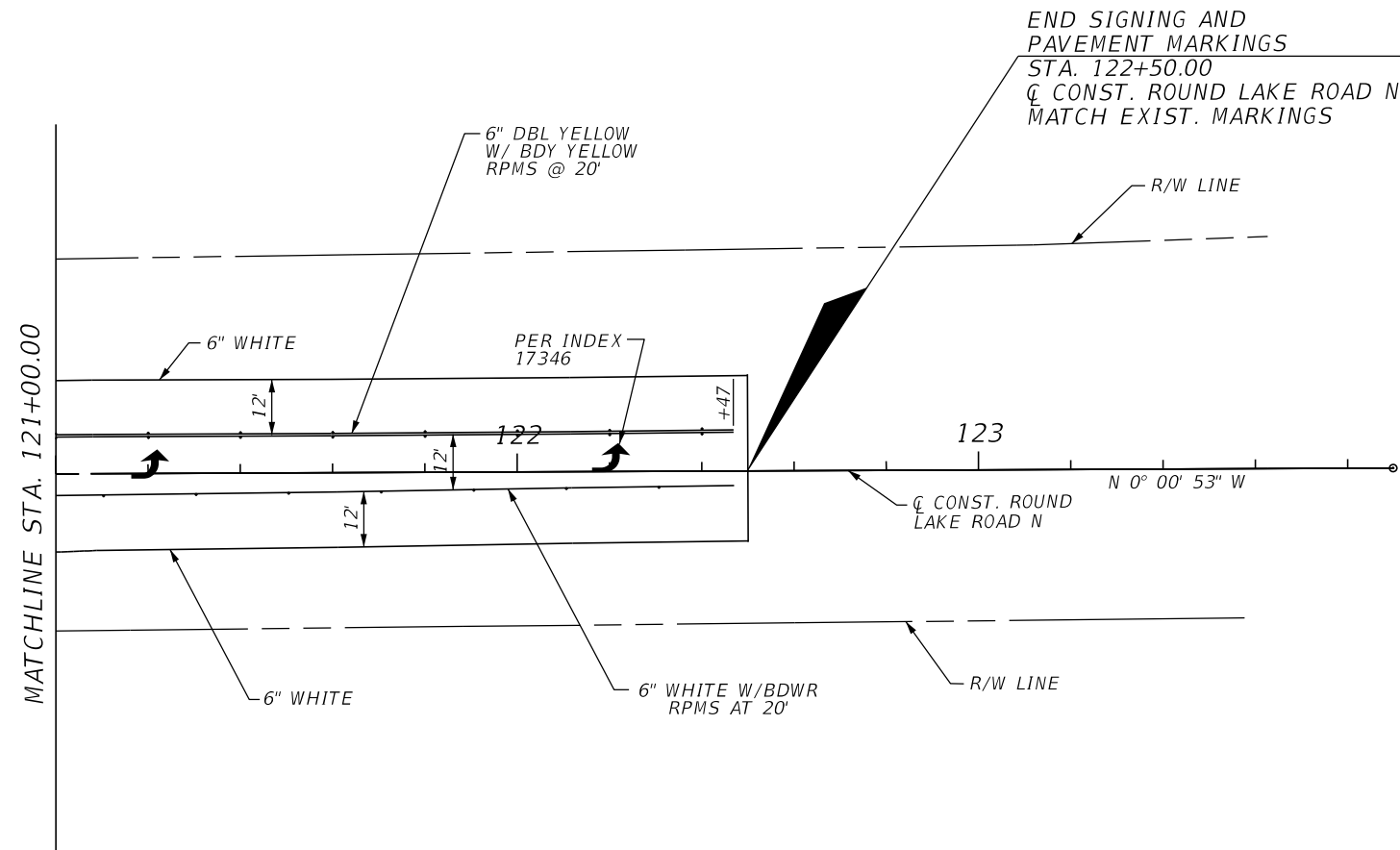


REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (15)	SHEET NO. S-20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-3-52-01			

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



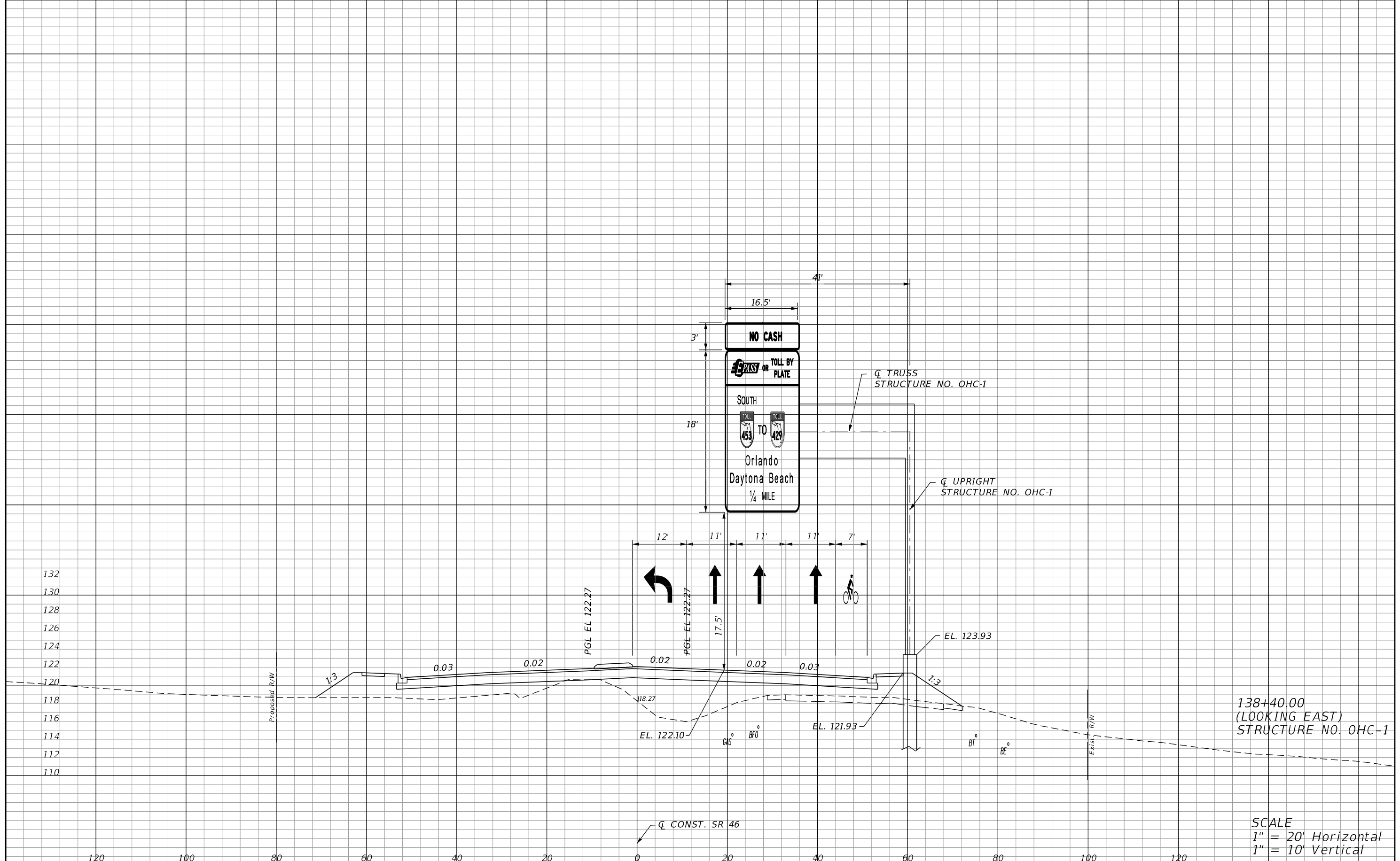
ROUND LAKE
ELEMENTARY SCHOOL



END SIGNING AND
PAVEMENT MARKINGS
STA. 122+50.00
Q CONST. ROUND LAKE ROAD N
MATCH EXIST. MARKINGS

MATCHLINE STA. 121+00.00

REVISIONS				LOCHRANE ENGINEERING, INC. 201 SOUTH BUMBY AVENUE ORLANDO, FLORIDA 32803 (407) 896-3317 BRET W. BENNETT, P.E. P.E. NUMBER 53977 CERTIFICATE OF AUTHORIZATION NO. 2856	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKINGS PLAN SHEET (16)	SHEET NO. S-21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-3-52-01		



132
130
128
126
124
122
120
118
116
114
112
110

120 100 80 60 40 20 0 20 40 60 80 100 120

138+40.00
(LOOKING EAST)
STRUCTURE NO. OHC-1

SCALE
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

LOCHRANE ENGINEERING, INC.
201 SOUTH BUMBY AVENUE
ORLANDO, FLORIDA 32803
(407) 896-3317
BRET W. BENNETT, P.E.
P.E. NUMBER 53977
CERTIFICATE OF AUTHORIZATION NO. 2856

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-3-52-02

**SIGN STRUCTURE
CROSS SECTION**

SHEET NO.
S-23

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

CANTILEVER SIGN STRUCTURES DATA TABLE										Table Date 01-01-11
SIGN NO.	STATION / OFFSET	DIMENSIONS			PANELS	MEMBER SIZES			BACKRAKE	
		A	B	C	N	D (CHORD)	E (WEB)	F (UPRIGHT)	G	
		ft	ft	in	in	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	in	
OHC-1	138+40.00/60.50' RT	25.6700	6	10	66	6	5.56 x 0.375	3-1/2 x 3-1/2 x 5/16	24.00 x 0.750	3.7036

CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)																								Table Date 01-01-11			
SIGN NO.	GUSSET PLATES												TRUSS CONNECTION								SPLICE						
	GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	TA	TB	TC	TD	TE	TF	TG	TH	TJ	SA	SB	SC	SD				
	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in	in	#	#	in	in	in	in	in	in	Angle (in)	#	in
OHC-1	3/8	3/4	1	2	6	1	1-3/4	5-1/2	11-3/4	8	10-1/2	3/16	7/8	8	6	5/8	1/2	5/16	1/4	3/16	1/4	5 x 5 x 1/2	4	7/8	4		

CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)																	Table Date 07-01-13									
SIGN NO.	BASE CONNECTION									ANCHOR		FOOTING - DRILLED SHAFT														
	BA	BB	BC	BD	BE	BF	BG	BH	BJ	BK	FA	FB	FC	FD	FE											
	in	#	in	in	ft	in	in	in	in	in	ft	in	ft	in	ft	in	# / Size	#	in							
OHC-1	2	12	1-1/4	3/8	2	3	5/16	5/16	5/16	3/16	4	1	29	0	4	6	15 / 11	62	5							

NOTES:

- WORK THESE DATA TABLES WITH INDEX 11310.
- DESIGN WIND SPEED = 110 MPH.
- UPRIGHT WALL THICKNESS GIVEN IS A MINIMUM DIMENSION.
- THE CONTRACTOR SHALL CONTACT DISTRICT FIVE MAINTENANCE OFFICE AT (386) 740-3463 FOUR WEEKS PRIOR TO COMPLETION OF THE PROJECT TO SCHEDULE A POST CONSTRUCTION INSPECTION OF THE SIGN STRUCTURE.

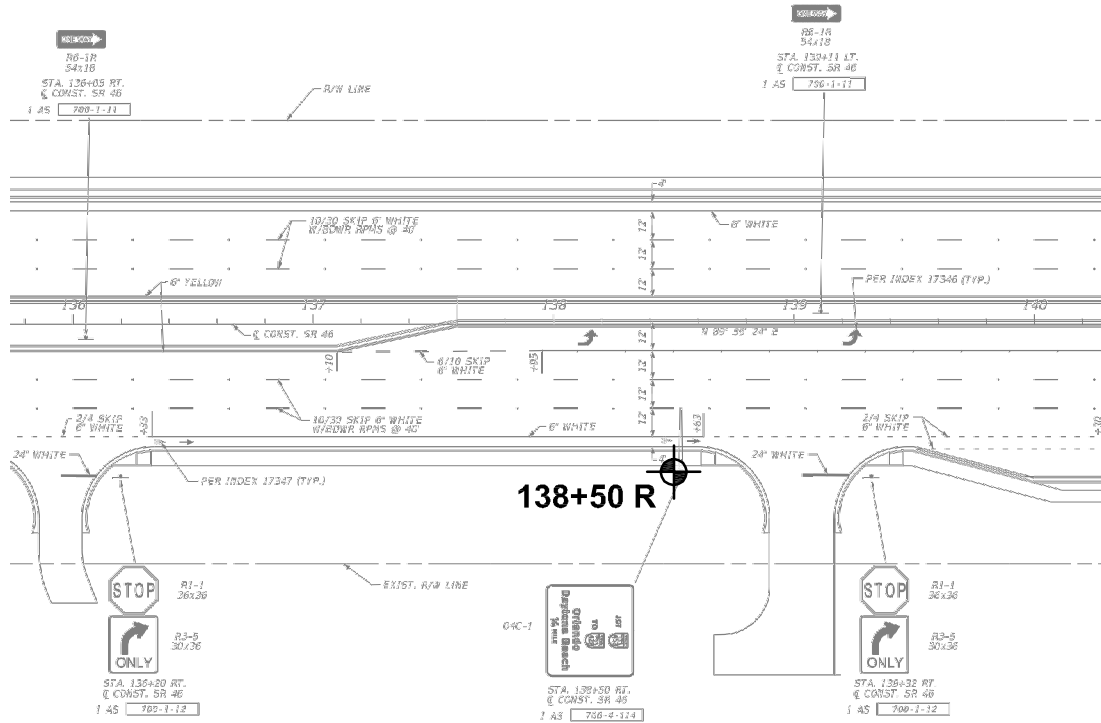
FOUNDATION NOTES:

- DESIGN BASED ON BORINGS TAKEN 03-12-14 SEALED BY ANTILLIAN ENGINEERING ASSOCIATES, INC.
- ASSUMPTIONS AND VALUES USED IN DESIGN:
 SOIL TYPE COHESIONESS (SAND)
 SOIL LAYER THICKNESS = 31 FT.
 SOIL FRICTION ANGLE = 30 DEG.
 TOTAL SOIL UNIT WEIGHT = 114 PCF
 SOIL N-BLOWCOUNT = 18
 DESIGN WATER TABLE IS 0 FT. BELOW SURFACE

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>				REVISIONS		DATE	DESCRIPTION					FBT - FLORIDA BRIDGE AND TRANSPORTATION, INC. 633 DARTMOUTH STREET ORLANDO, FL 32804 (407) 513-9709 CERT. OF AUTH. NO. 26379 ENGINEER OF RECORD: Juan A. Valenzuela, PE FL REGISTRATION NO. 68208				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>46</td> <td>LAKE</td> <td>238275-3-52-01</td> </tr> </table>				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	46	LAKE	238275-3-52-01	CANTILEVER SIGN STRUCTURE DATA TABLE				SHEET NO. S-23	
REVISIONS																															
DATE	DESCRIPTION																														
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																													
46	LAKE	238275-3-52-01																													

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
 Drawn By : DAB 04-14
 Checked By : JAV 04-14
 Designed By : DAB 04-14
 Checked By : JAV 04-14

SECTION: 34
TOWNSHIP: 19 SOUTH
RANGE: 27 EAST



LEGEND

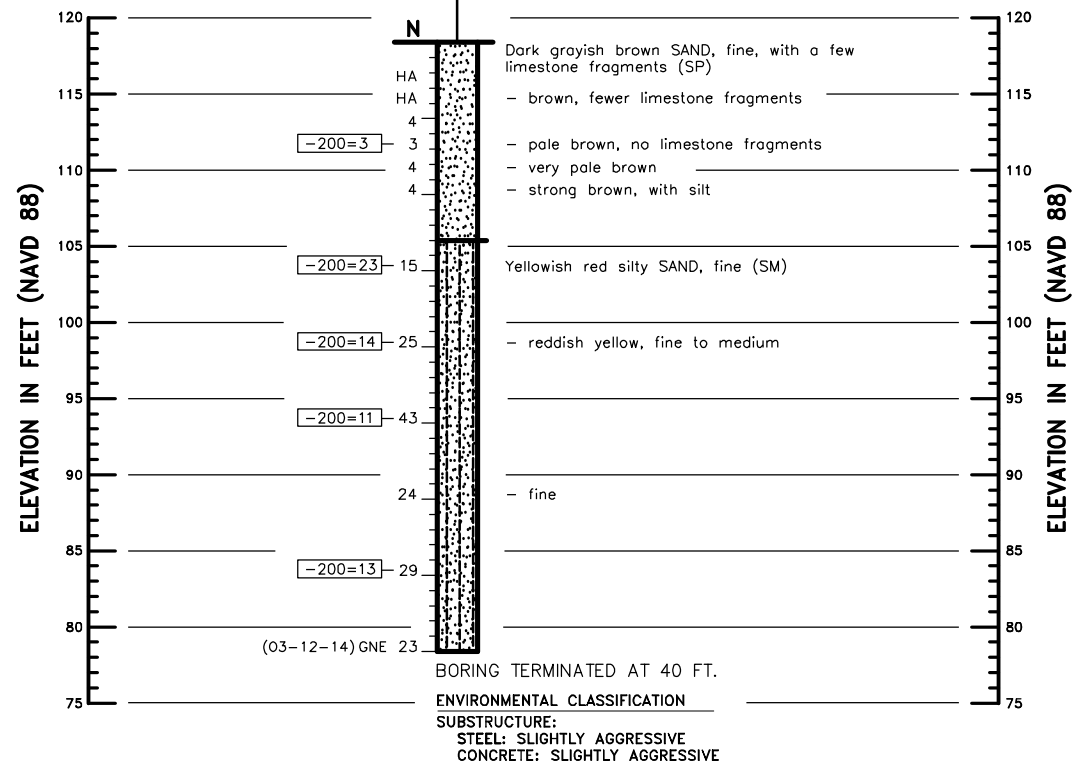
- SAND
- SILTY SAND
- STANDARD PENETRATION TEST (SPT) BORING LOCATION
- CHANGE IN SOIL STRATA
- N** SPT N-VALUE IN BLOWS PER FOOT (ASTM D 1586)
- HA** BORING ADVANCED BY HAND AUGER TO AVOID CONFLICT WITH UTILITIES
- (SP)** UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL BASED ON VISUAL EXAMINATION AND LABORATORY TESTING
- (03-12-14) GNE** GROUNDWATER LEVEL NOT ENCOUNTERED DURING DRILLING
- 200** PERCENT PASSING U.S. STANDARD NO. 200 SIEVE

NOTES

1. PLAN VIEW IS PRELIMINARY FOR SHOWING BORING LOCATIONS ONLY AND MAY NOT BE INDICATIVE OF FINAL PLAN.
2. PLAN FURNISHED BY LOCHRANE.
3. BORING WAS DRILLED BY B. VANHOOSE ON 03/12/14 USING A BR2500 RIG. SPT WAS CONDUCTED WITH A MANUAL HAMMER.

SOIL CONSISTENCY (BASED ON EMPIRICAL CORRELATION WITH SPT N-VALUE)	
GRANULAR SOILS	
VERY LOOSE	- LESS THAN 4 BLOWS/FT.
LOOSE	- 4 TO 10 BLOWS/FT.
MEDIUM DENSE	- 10 TO 30 BLOWS/FT.
DENSE	- 30 TO 50 BLOWS/FT.
VERY DENSE	- MORE THAN 50 BLOWS/FT.
FINE-GRAINED SOILS	
VERY SOFT	- LESS THAN 2 BLOWS/FT.
SOFT	- 2 TO 4 BLOWS/FT.
FIRM	- 4 TO 8 BLOWS/FT.
STIFF	- 8 TO 15 BLOWS/FT.
VERY STIFF	- 15 TO 30 BLOWS/FT.
HARD	- MORE THAN 30 BLOWS/FT.

138+50 R
STATION: 138+50.00
OFFSET: 62' RT
LATITUDE: N28.80059°
LONGITUDE: W81.59401°
ELEVATION: 118.29
DATE: 03-12-14



BORING TERMINATED AT 40 FT.
ENVIRONMENTAL CLASSIFICATION _____
SUBSTRUCTURE:
STEEL: SLIGHTLY AGGRESSIVE
CONCRETE: SLIGHTLY AGGRESSIVE

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PETER G. SUAH, P.E.
P.E. LICENSE NO. 46910
ANTILIAN ENGINEERING ASSOCIATES, INC.
3331 BARTLETT BOULEVARD
ORLANDO, FLORIDA 32811
CERTIFICATE OF AUTHORIZATION EB6685

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 46	LAKE	238275-3-52-01

REPORT OF SPT BORING FOR SIGN

SHEET NO.

S - 25

PAY ITEM NOTES:

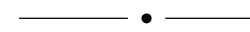
1. ITEMS 630-2-XX: ALL CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, AND TRENCHING AND BACKFILL AS INDICATED IN THE PLANS AND THE DESIGN STANDARDS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE CONDUIT. RESTORING CUT PAVEMENT, SIDEWALKS, SOD ETC. TO ITS ORIGINAL CONDITION SHALL ALSO BE CONSIDERED INCIDENTAL TO CONSTRUCTION. SURFACE MOUNT CONDUIT SHALL BE PAINTED TO MATCH THE MOUNTING SURFACE. CONDUIT DOES NOT HAVE TO BE PAINTED IN THE ENCLOSED BRIDGE END SPANS.


2. ITEM 635-2-11: PULL BOX COVERS SHALL BE NON-METALLIC EXCEPT FOR PULL BOXES LOCATED WITHIN THE ROADWAY PAVEMENT. FOR PULL BOXES LOCATED WITHIN THE ROADWAY PAVEMENT, PROVIDE A CONCRETE PULL BOX WITH METALLIC COVER CAPABLE OF WITHSTANDING A 16,000 POUND LOAD. A FOUR (4) INCH THICK CONCRETE SLAB SHALL BE PLACED BELOW THE PULL BOX ALONG WITH PEA ROCK AND FILTER FABRIC. THIS MATERIAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF PULL BOXES. THE PULL BOX SHALL BE WIRED IN ACCORDANCE WITH THE WIRING DETAIL ON INDEX 17500. THE CONCRETE SLAB AROUND THE PULL BOX PER INDEX 17500 SHALL BE INCIDENTAL TO THE COST OF THE PULL BOX.


LEGEND

SYMBOL

DESCRIPTION

- 

PROPOSED 2" SCHEDULE 40 P.V.C. OPEN TRENCH CONDUIT WITH TYPE THWN-2 STRANDED COPPER CONDUCTORS INSIDE (CONDUCTOR AND GROUND WIRE SIZES SHOWN ON PLAN SHEETS) AND INSULATED GREEN STRANDED CU BOND WIRE CONNECTING ALL POLES AND INSULATED STRANDED COPPER CIRCUIT CONDUCTORS.
- 

PROPOSED 2" SCHEDULE 40 HDPE DIRECTIONAL BORE CONDUIT WITH TYPE THWN-2 STRANDED COPPER CONDUCTORS INSIDE. DIRECTIONAL BORE UNDER PAVEMENT. (CONDUCTOR AND GROUND WIRE SIZES SHOWN ON PLAN SHEETS) AND INSULATED GREEN STRANDED CU BOND WIRE CONNECTING ALL POLES, AND INSULATED STRANDED COPPER CIRCUIT CONDUCTORS.
- 

PULL BOX (SEE INDEX 17500 DESIGN STANDARDS BOOKLET DATED JANUARY 2014). PULL BOXES WITH CONCRETE SLAB REQUIRED AT BOTH ENDS OF THE CONDUIT AT ROADWAY CROSSINGS AND AS NECESSARY FOR COMPLETION OF THE PROJECT. PULL BOX COVER SHALL HAVE "STREET LIGHTING" LOGO. SYMBOL INCLUDES PULL BOX CONCRETE SLAB WHICH IS PAID FOR IN THE PRICE OF THE PULL BOX.

REVISIONS				KATHRYN L. LEE, P.E. P.E. LICENSE NUMBER 62420 VANASSE HANGEN & BRUSTLIN, INC. 225 E. ROBINSON ST., SUITE 300 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PAY ITEM NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S - 26
					46	LAKE	238275-3-52-02		

GENERAL NOTES:

1. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:

- A) LUMINAIRE PHOTOMETRICS
- B) LOAD CENTER ELECTRICAL EQUIPMENT

2. UTILITY OWNERS (SEE ROADWAY PLANS FOR ADDITIONAL UTILITY OWNERS):

CENTRAL FLORIDA EXPRESSWAY AUTHORITY FIBER OPTIC NETWORK
 PAT COLLINS, CFX
 4974 ORL TOWER RD
 ORLANDO, FL 32807
 (407) 690-5056

SUNSHINE 811
 1-800-638-4097

3. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.

4. FLORIDA STATUTE 553.851 (2000) REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE UTILITY OWNER A MINIMUM OF TWO (2) DAYS AND A MAXIMUM OF FIVE (5) DAYS, EXCLUDING SATURDAY, SUNDAY AND LEGAL HOLIDAYS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF 'SUNSHINE 811' 1-800-638-4097.

5. THE LOCATIONS OF THE CONDUCTORS, CONDUITS, JUNCTION BOXES, AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.

6. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE AND THE STATE OF FLORIDA DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.

7. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES.

8. THE CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY OWNER AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. THE UTILITY OWNER SHALL ASSIST THE CONTRACTOR WITH TAKING SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.

9. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CABLE USED.

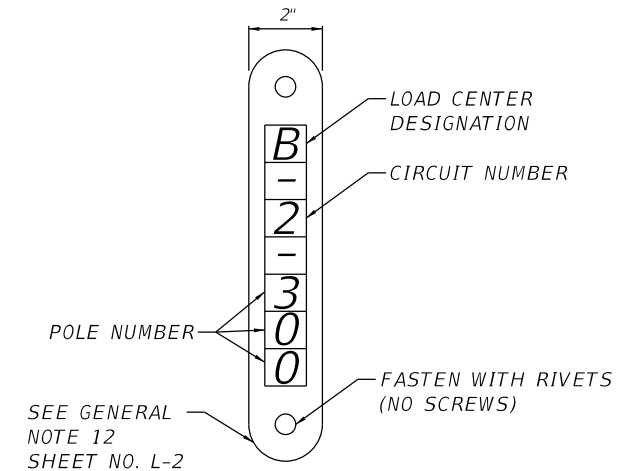
10. SIGN ILLUMINATION SHALL BE HOLOPHANE SIGN-VUEII LED SIGN LIGHT, MODEL NUMBER: SVLED2-PNL-PK3-50K OR AUTHORITY APPROVED EQUAL. SIGN LUMINAIRES SHALL BE PROVIDED WITH LED DRIVER OR SURGE PROTECTION LOCATED REMOTELY IN LED DRIVER BOX. SIGN LUMINAIRES SHALL BE GREY OR SILVER IN COLOR. ILLUMINATION FOR EACH SIGN SHALL BE BETWEEN 25 AND 35 FOOT CANDLES AVERAGE INITIAL WITH A MAXIMUM-TO-MINIMUM UNIFORMITY RATIO OF 6:1 OR LESS.

11. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A COMPUTER PRINTOUT FOR EACH SIGN INDICATING THAT THE SELECTED LUMINAIRE MEETS OR EXCEEDS THE ABOVE CRITERIA. THE NUMBER OF LUMINAIRES REQUIRED FOR EACH LIGHTED SIGN IS INDICATED IN THE SCHEDULE OF LIGHTED SIGNS ON SHEET NO. L-5.

12. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING POLE OR STRUCTURE. TAGS SHALL BE 2" X 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE AS SHOWN ON THE POLE DATA SHEET ON THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE FOR PROPOSED POLES. TAG SHALL BE PLACED 5' ABOVE GRADE, EXCEPT FOR WALL/BRIDGE MOUNTED POLES. ON WALL/BRIDGE MOUNTED POLES THE TAG SHALL BE PLACED 1' ABOVE THE TOP OF WALL. SEE DETAIL ON SHEET NO. L-2.

OVERHEAD SIGN LIGHTING DESIGN CRITERIA

AVERAGE INITIAL INTENSITY 25 F.C. MIN. TO 35 F.C. MAX
 UNIFORMITY RATIO MAX./MIN. 6:1 OR LESS

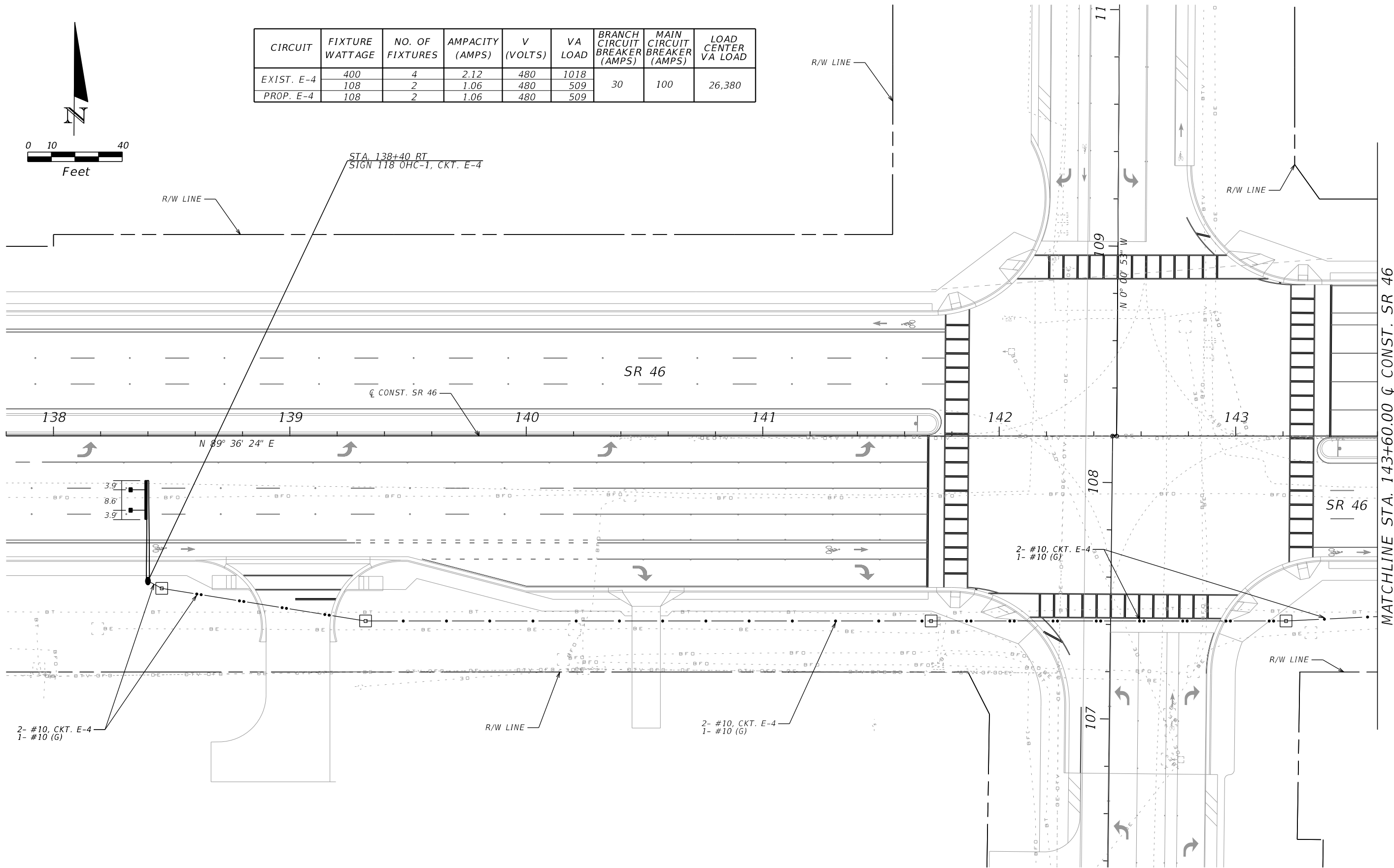
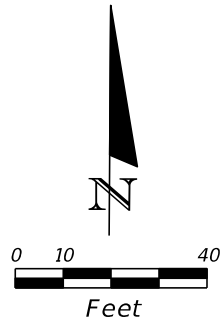


POLE IDENTIFICATION TAG DETAIL
 N.T.S.

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REVISIONS				KATHRYN L. LEE, P.E. P.E. LICENSE NUMBER 62420 VANASSE HANGEN & BRUSTLIN, INC. 225 E. ROBINSON ST., SUITE 300 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. S - 27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					46	LAKE	238275-3-52-02	

CIRCUIT	FIXTURE WATTAGE	NO. OF FIXTURES	AMPACITY (AMPS)	V (VOLTS)	VA LOAD	BRANCH CIRCUIT BREAKER (AMPS)	MAIN CIRCUIT BREAKER (AMPS)	LOAD CENTER VA LOAD
EXIST. E-4	400	4	2.12	480	1018	30	100	26,380
PROP. E-4	108	2	1.06	480	509			

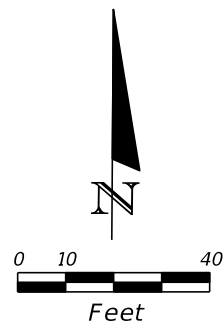


MATCHLINE STA. 143+60.00 & CONST. SR 46

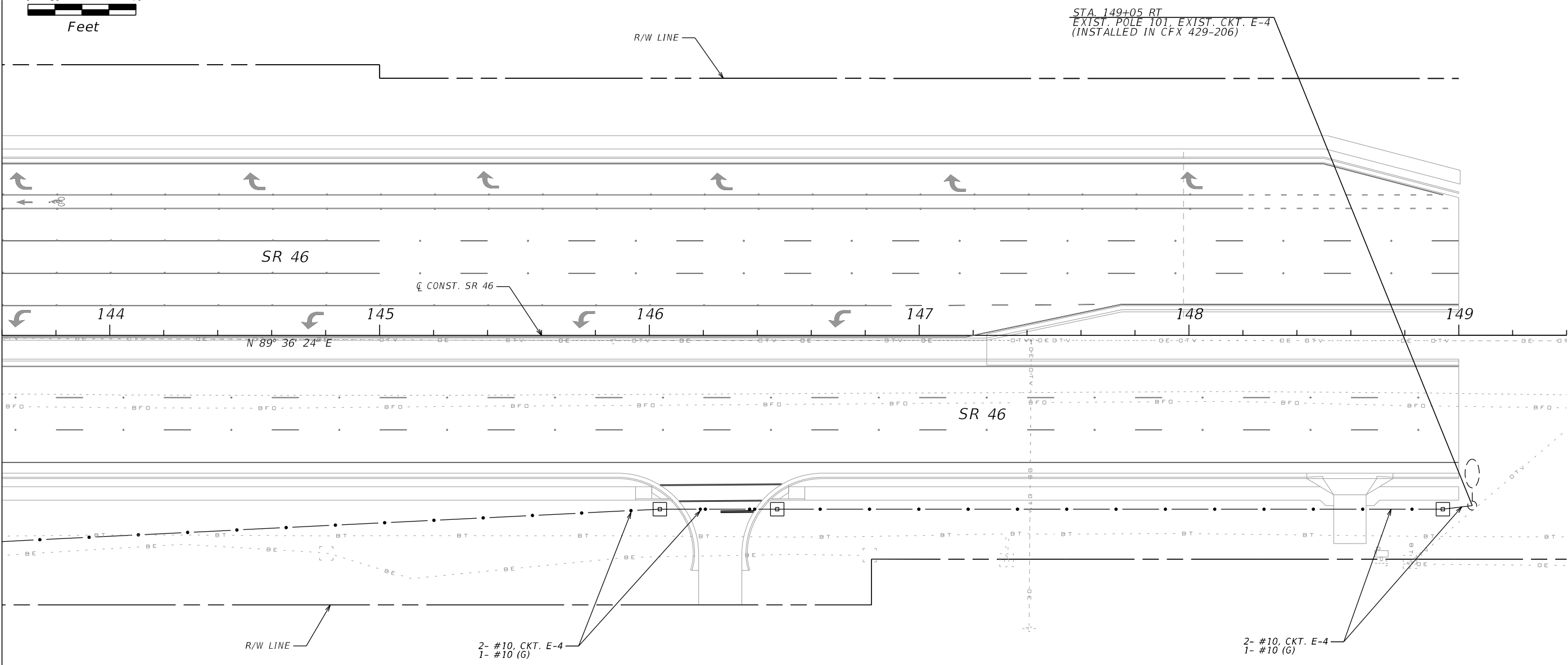
REVISIONS				KATHRYN L. LEE, P.E. P.E. LICENSE NUMBER 62420 VANASSE HANGEN & BRUSTLIN, INC. 225 E. ROBINSON ST., SUITE 300 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. S-28
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					46	LAKE	238275-3-52-02	

LIGHTING PLAN

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MATCHLINE STA. 143+60.00 & CONST. SR 46



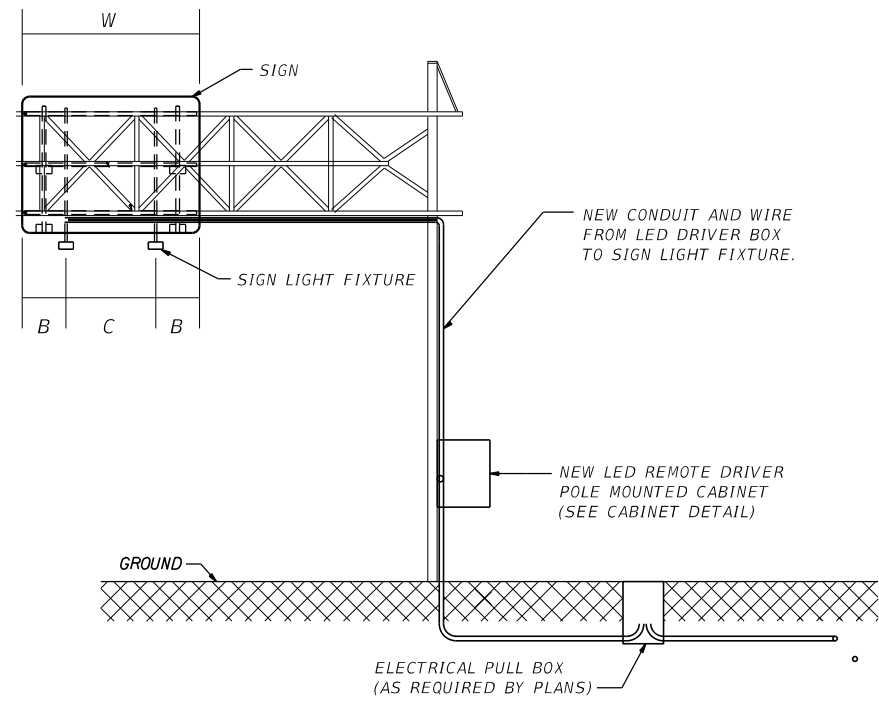
STA. 149+05 RT
EXIST. POLE 101, EXIST. CKT. E-4
(INSTALLED IN CFX 429-206)

2- #10, CKT. E-4
1- #10 (G)

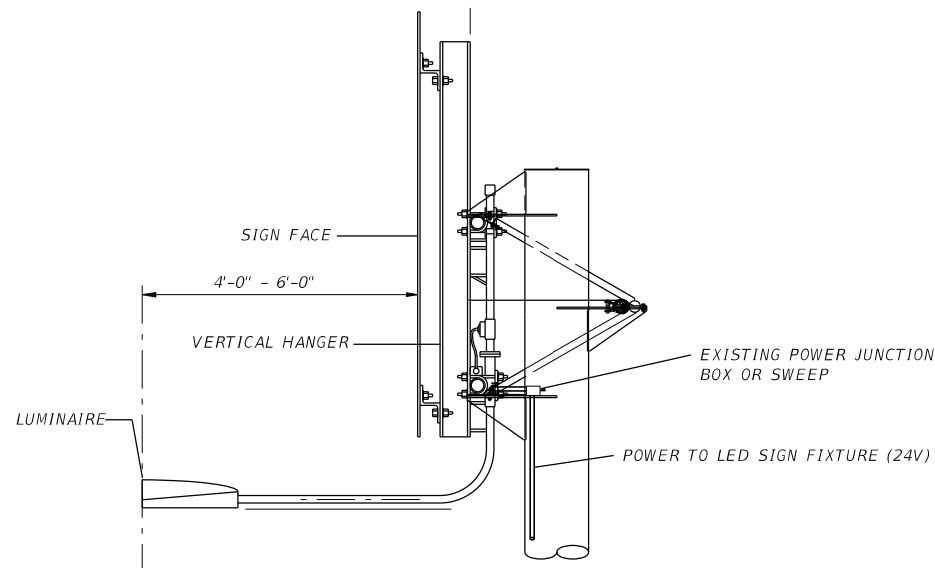
2- #10, CKT. E-4
1- #10 (G)

REVISIONS				KATHRYN L. LEE, P.E. P.E. LICENSE NUMBER 62420 VANASSE HANGEN & BRUSTLIN, INC. 225 E. ROBINSON ST., SUITE 300 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. S-29
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					46	LAKE	238275-3-52-02	

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



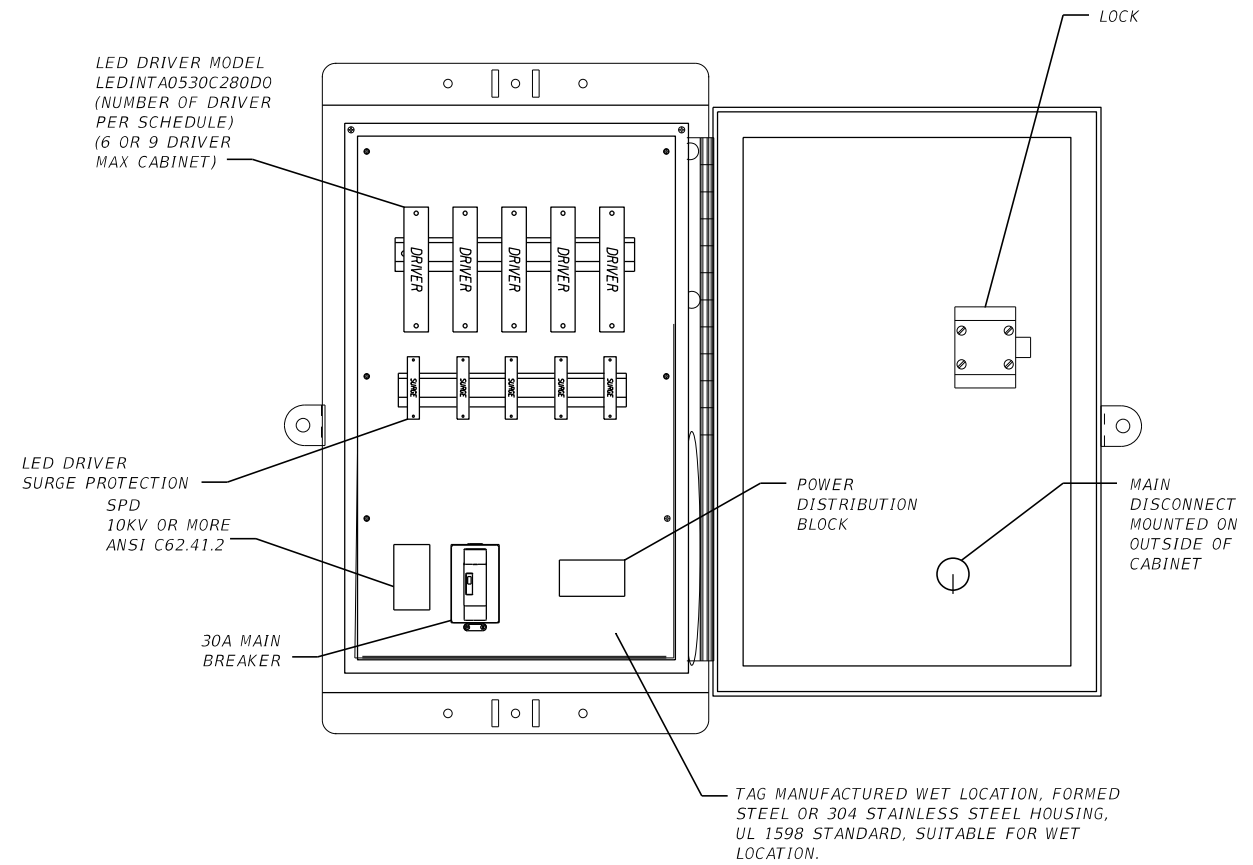
SIGN CONDUIT DIAGRAM



LED SIGN LIGHT FIXTURE ON STRUCTURE (PROFILE)

LIGHTED SIGN FIXTURE SPACING

SIGN NO.	CIRCUIT	STR. NO.	STATION	NO. OF LUMINAIRES	EQUATION FOR SPACING	W (FT.)	B (FT.)	C (FT.)
118	E-4	OHC-1	138+40 RT	2	$W=2B+C, C=2.2B$	16.5	3.9	8.6



CABINET DETAIL

LED REMOTE DRIVER BOX - POLE MOUNT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KATHRYN L. LEE, P.E.
P.E. LICENSE NUMBER 62420
VANASSE HANGEN & BRUSTLIN, INC.
225 E. ROBINSON ST., SUITE 300
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION NO. 3932

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-3-52-02

LED SIGN DETAILS

SHEET NO.

S-30