


Regular		Exc.		Embankment	
A	V	A	V	A	V
49.44	74.06	30.60	22.04		
14.68	59.37	77.33	27.27		
5.63	18.81	75.46	22.33		

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

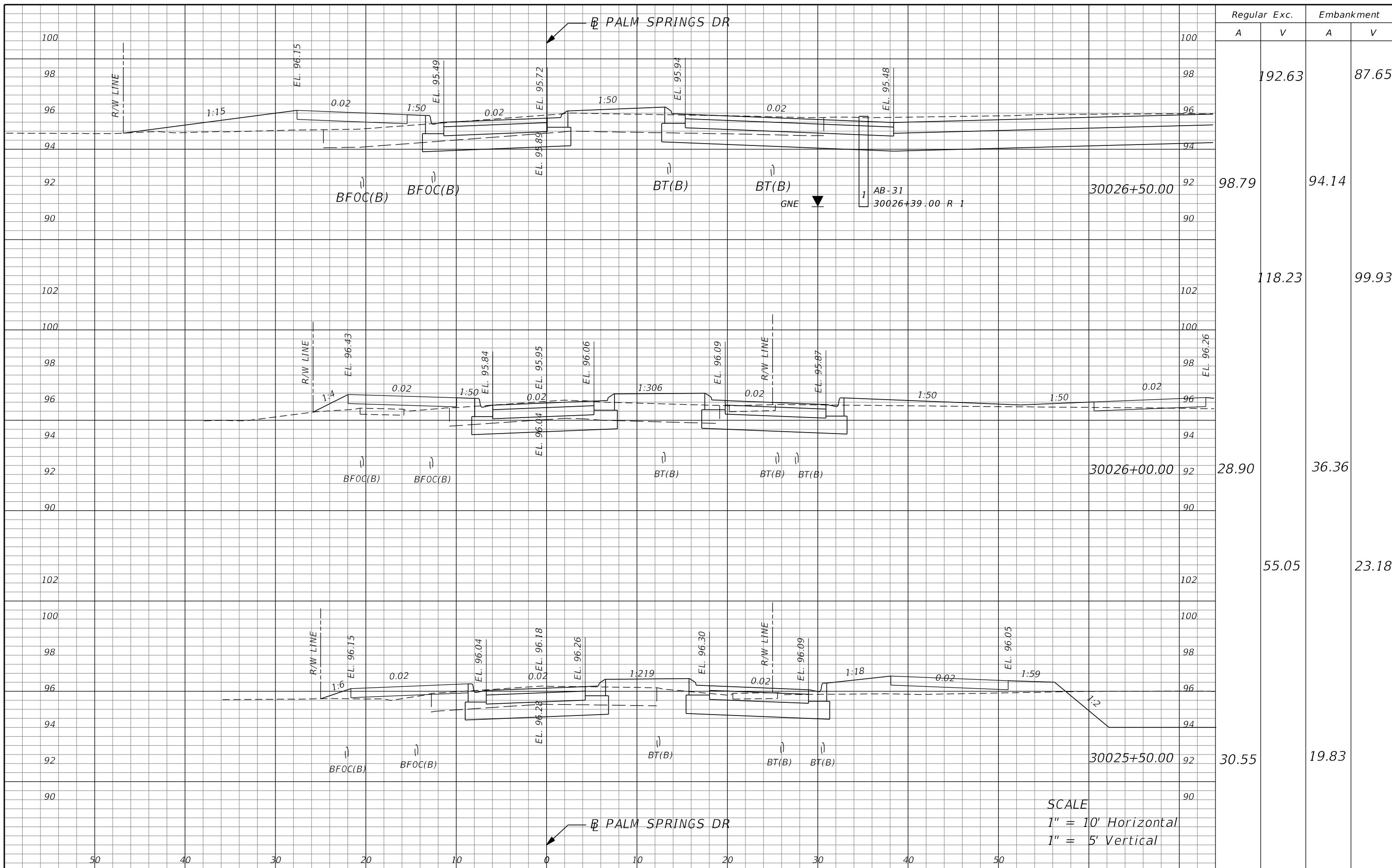


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 254

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
	192.63		87.65		
98.79		94.14			
	118.23		99.93		
28.90		36.36			
	55.05		23.18		
30.55		19.83			

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

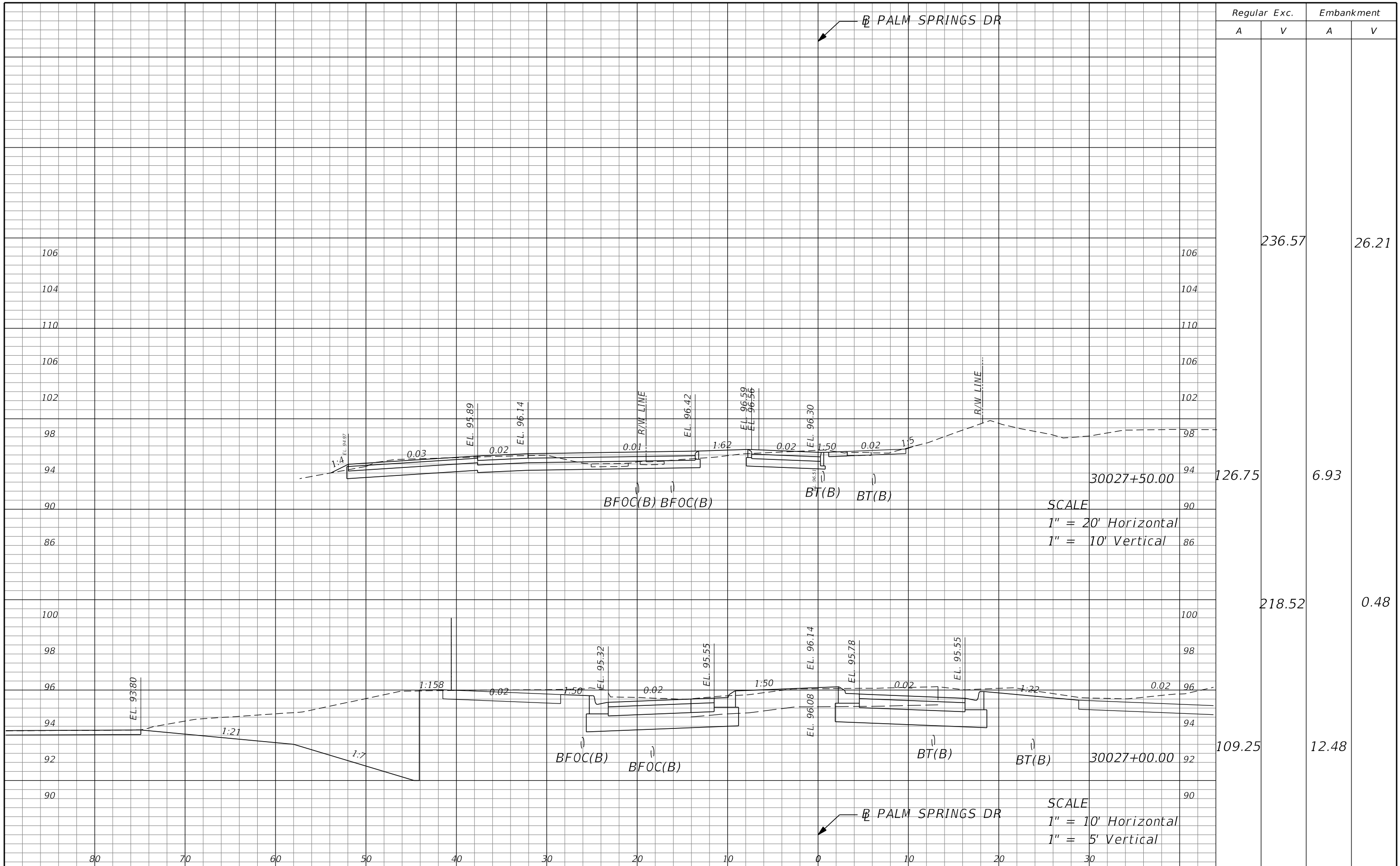


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 255

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
			236.57		26.21
126.75		6.93			
			218.52		0.48
109.25		12.48			

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

SCALE
1" = 10' Horizontal
1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
LICENSE NO. 90792
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

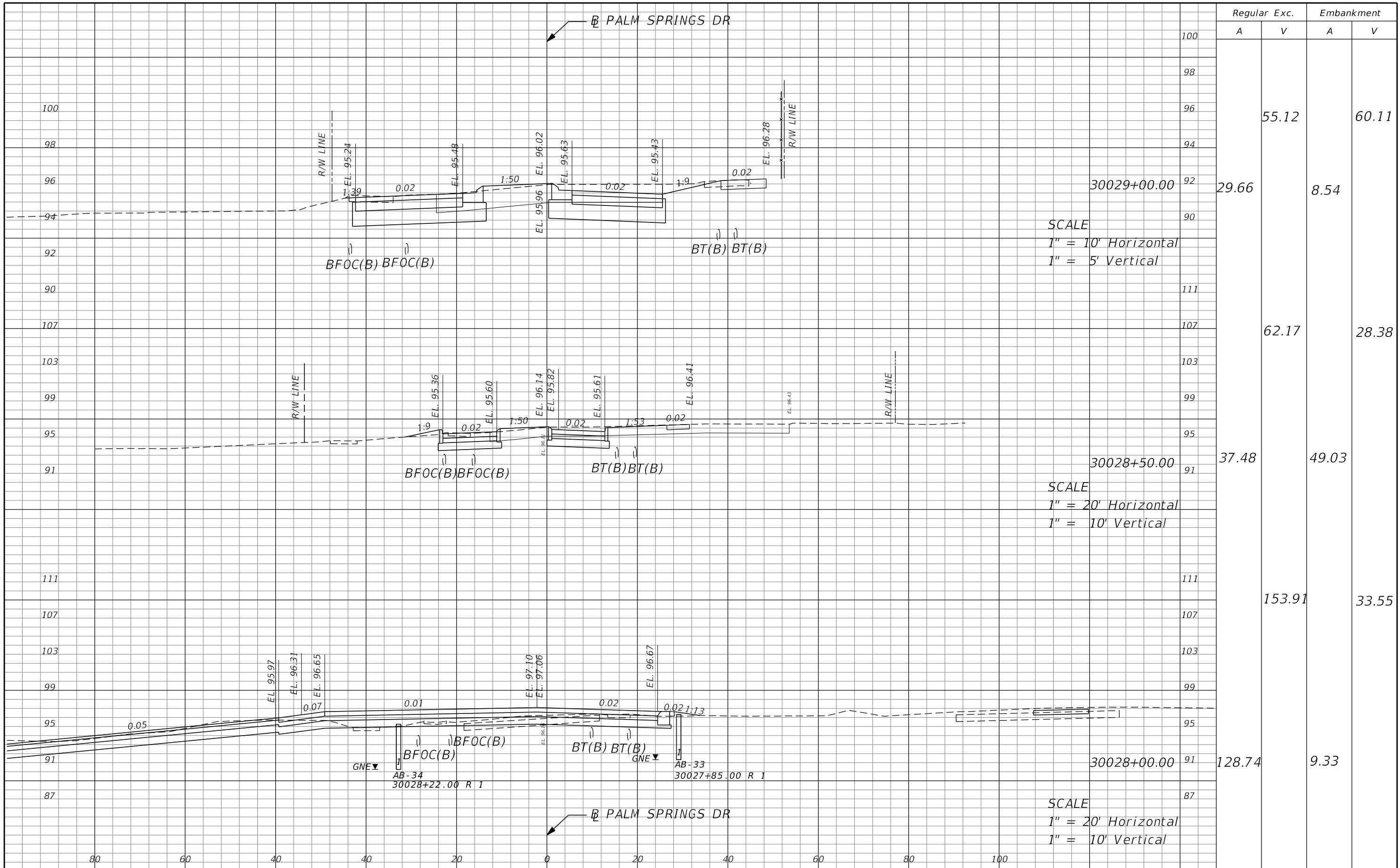


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
ROAD COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
256

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



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
30029+00.00	29.66	55.12	8.54		60.11	
30028+50.00	37.48	62.17	49.03		28.38	
30028+00.00	128.74	153.91	9.33		33.55	

SCALE
1" = 10' Horizontal
1" = 5' Vertical

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

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
315 E. ROBINSON ST. SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



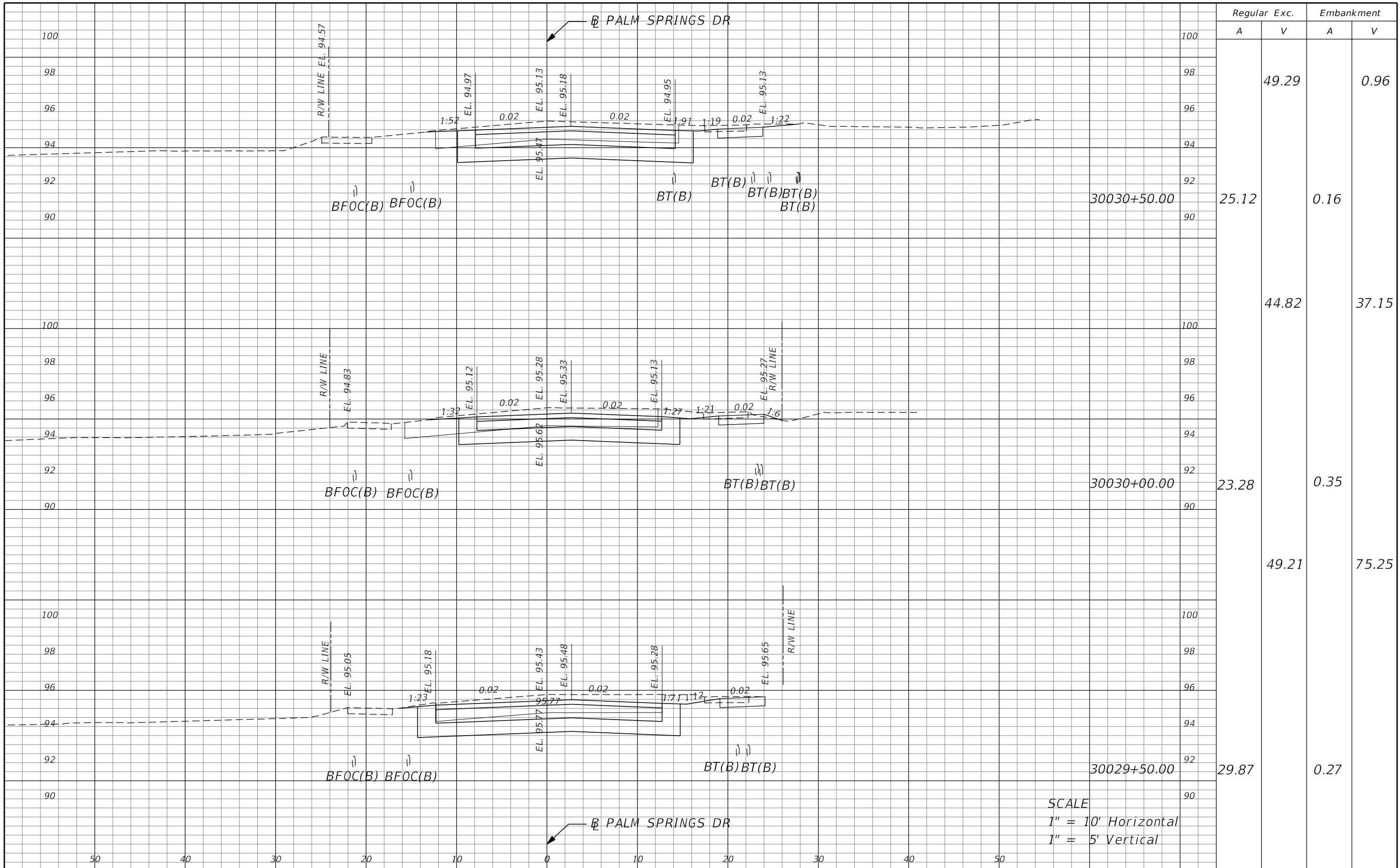
SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
257

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
25.12	49.29	0.16		0.96	
23.28	44.82	0.35		37.15	
29.87	49.21	0.27			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



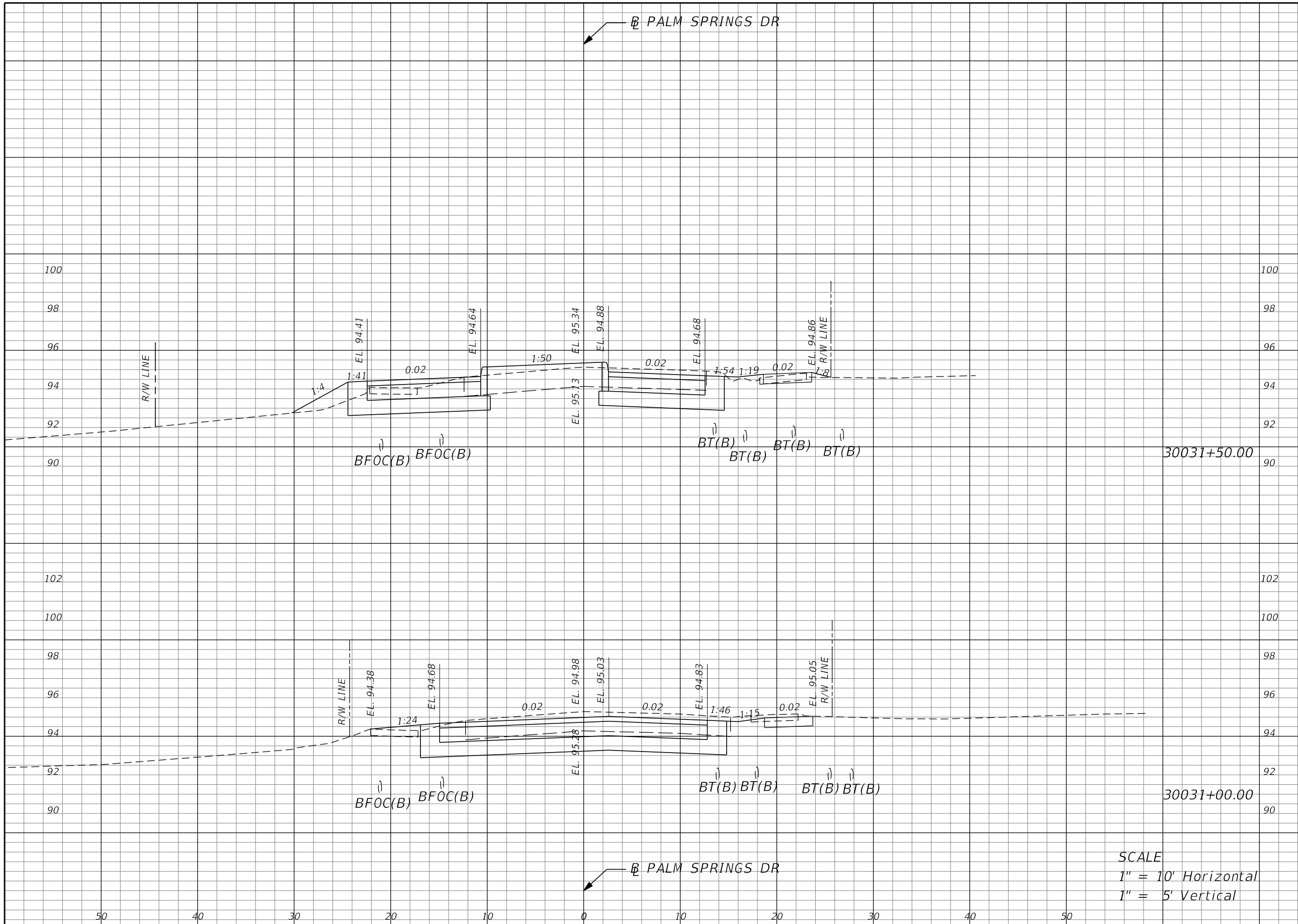
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH
 ST., PALM SPRINGS DR. 01907084

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

CROSS SECTIONS

SHEET NO.
258

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
	53.07		0.00		
31.20		19.94			
	54.92		0.00		
28.12		1.01			

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

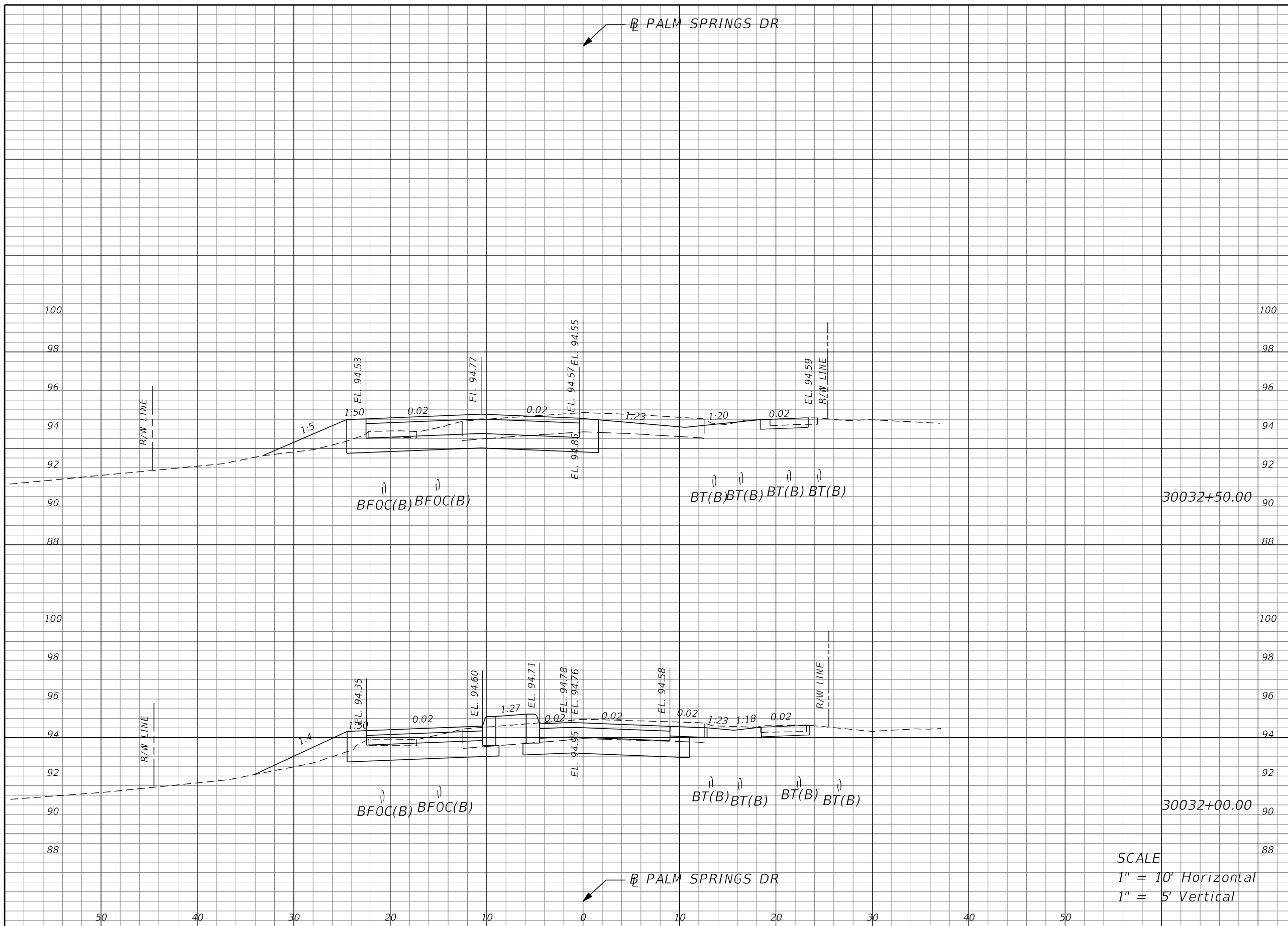


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 259

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
	40.94		0.00		
20.09		11.89			
	42.79		0.00		
26.12		10.99			

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

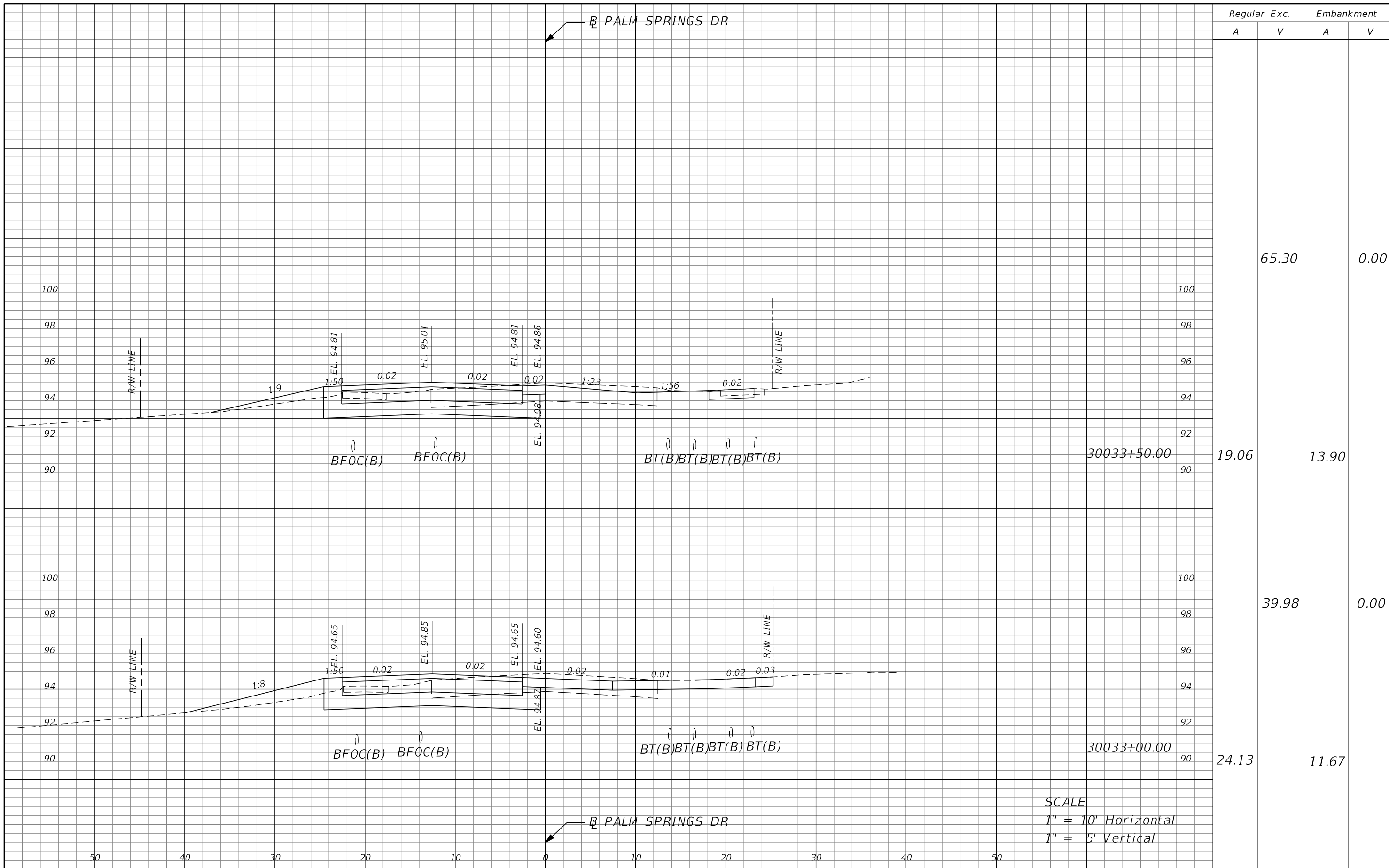


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 260

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
			65.30		0.00
19.06		13.90			
			39.98		0.00
24.13		11.67			

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

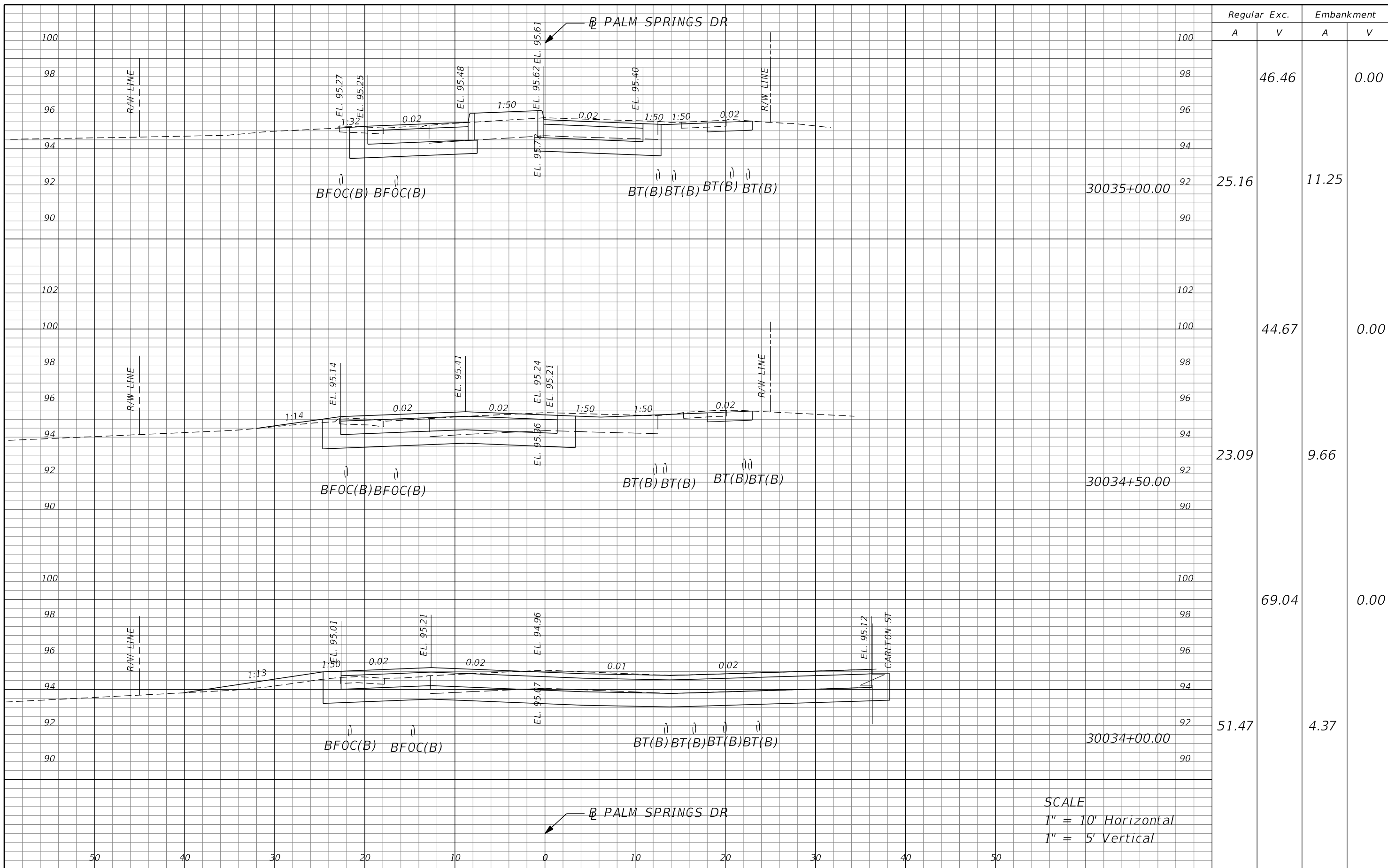


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 261

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



SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

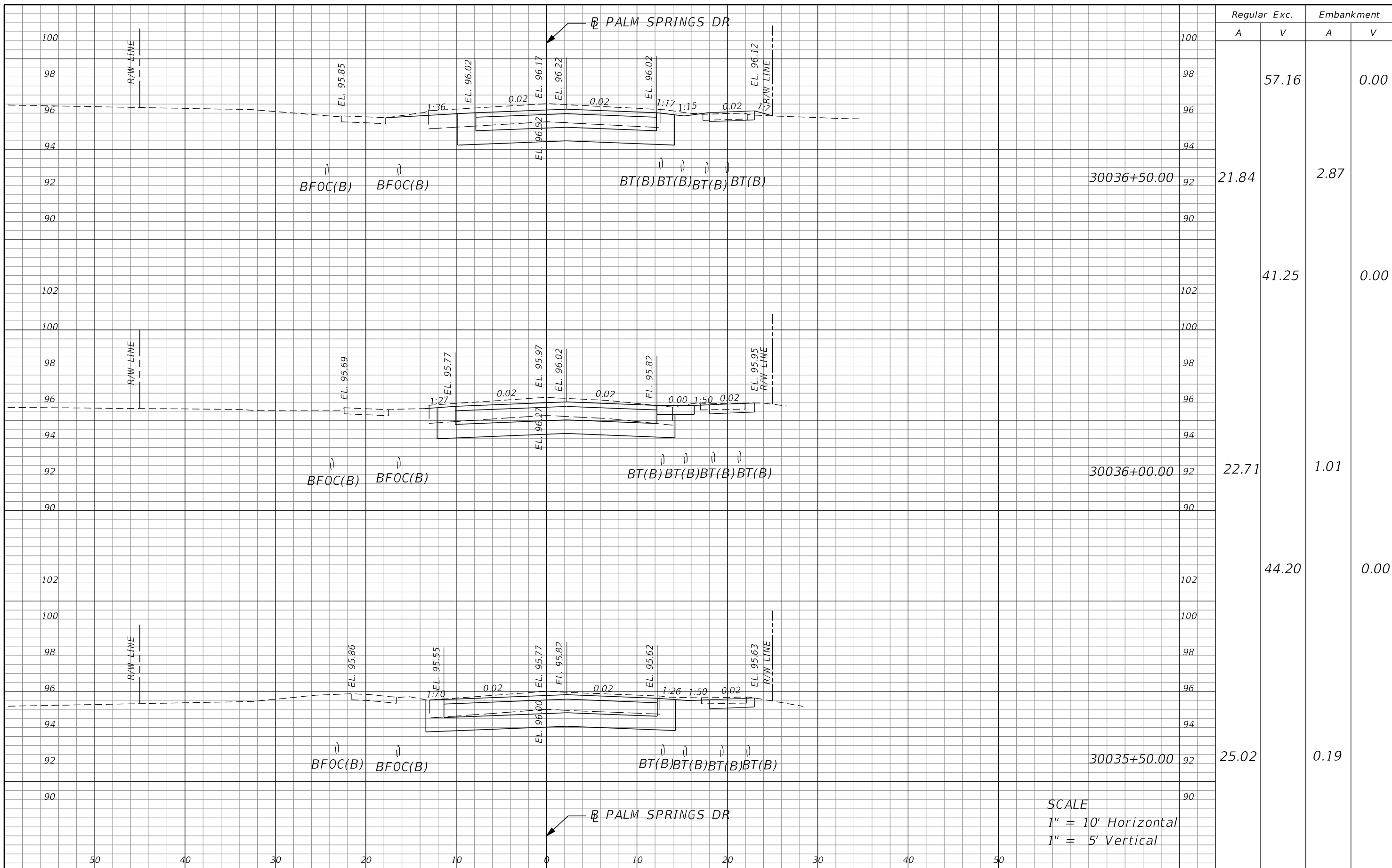


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 262

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
21.84	57.16	2.87	0.00	41.25	0.00
22.71	1.01	44.20	0.00	25.02	0.19

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

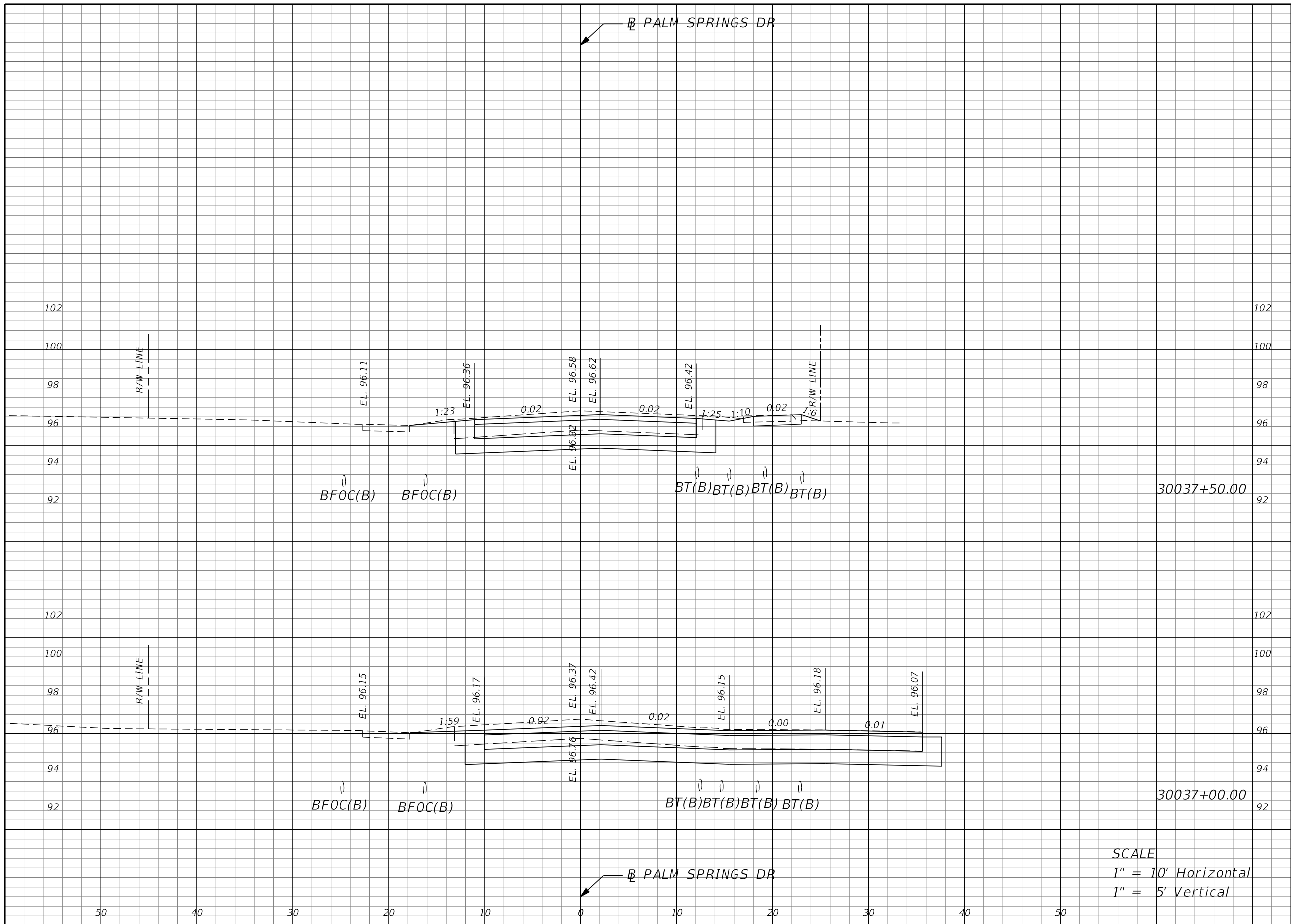


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 263

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
	51.32				0.00
24.04		0.71			
	59.20				0.00
39.90		0.83			

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

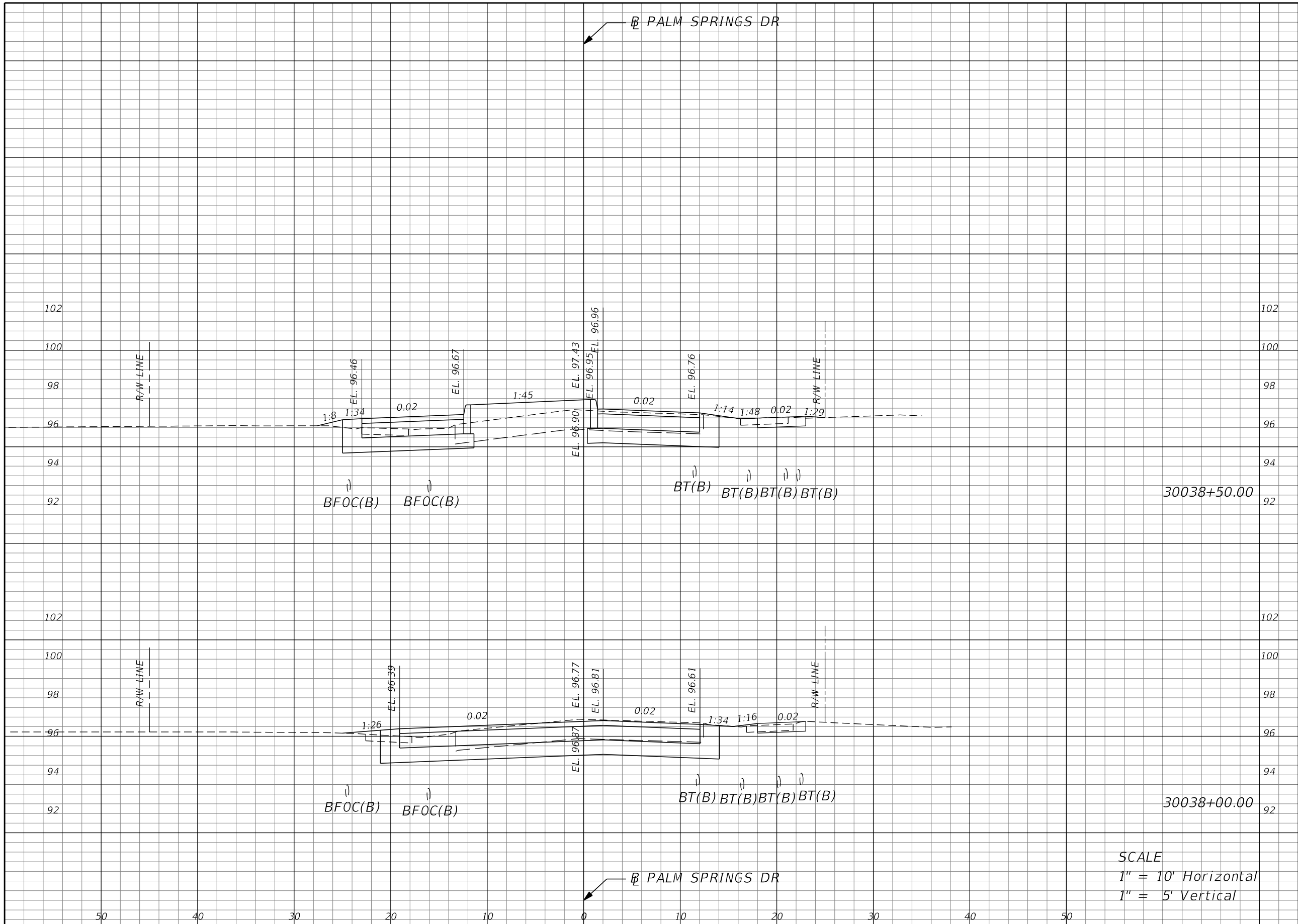


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 264

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
			37.94		0.00
22.05		20.69			
	49.48		0.00		
31.39		1.52			

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

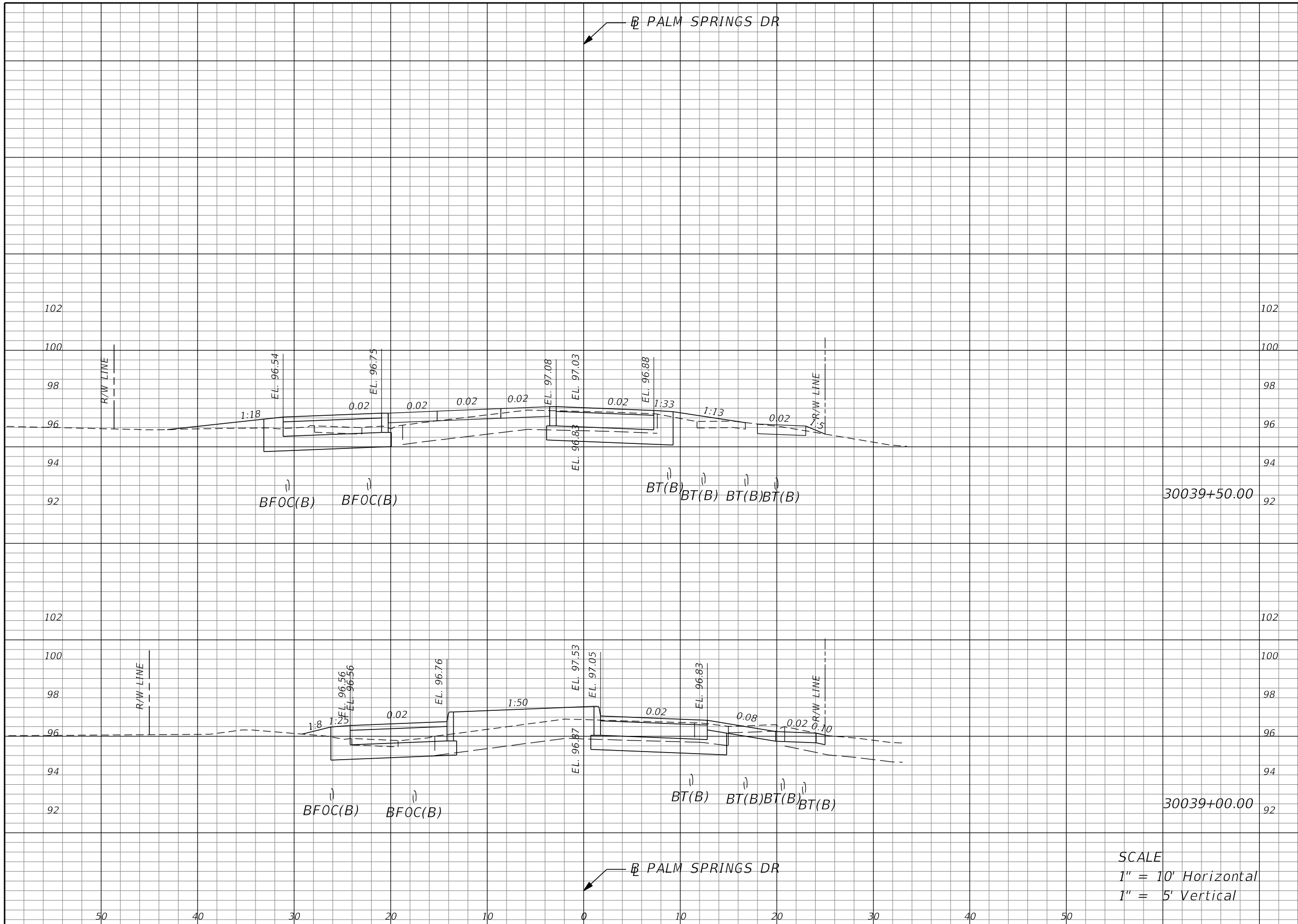


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 265

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
			57.25		2.37
24.00				18.82	
			39.75		0.00
18.93				27.08	

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

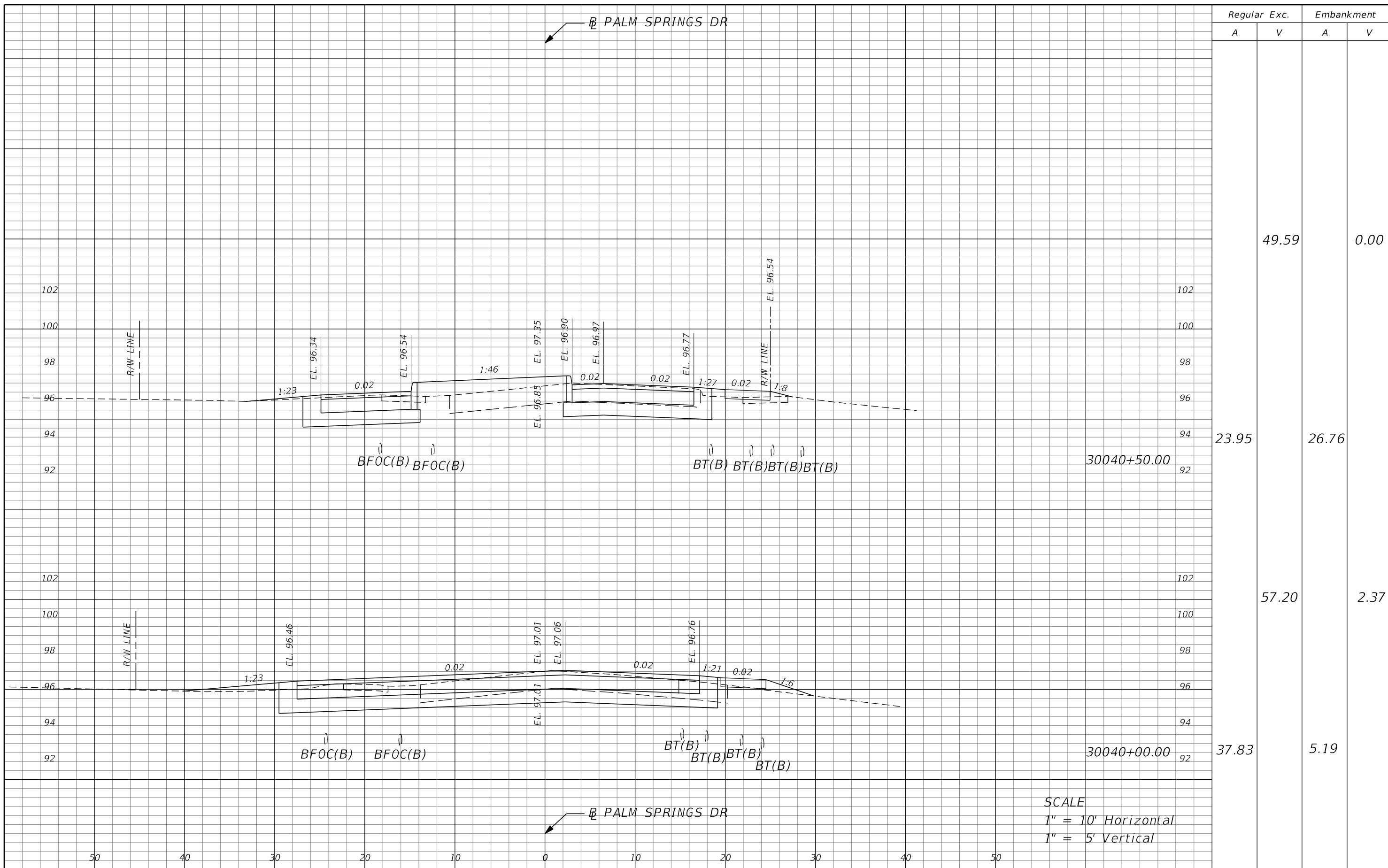


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 266

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
	49.59		0.00		
23.95		26.76			
	57.20		2.37		
37.83		5.19			

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

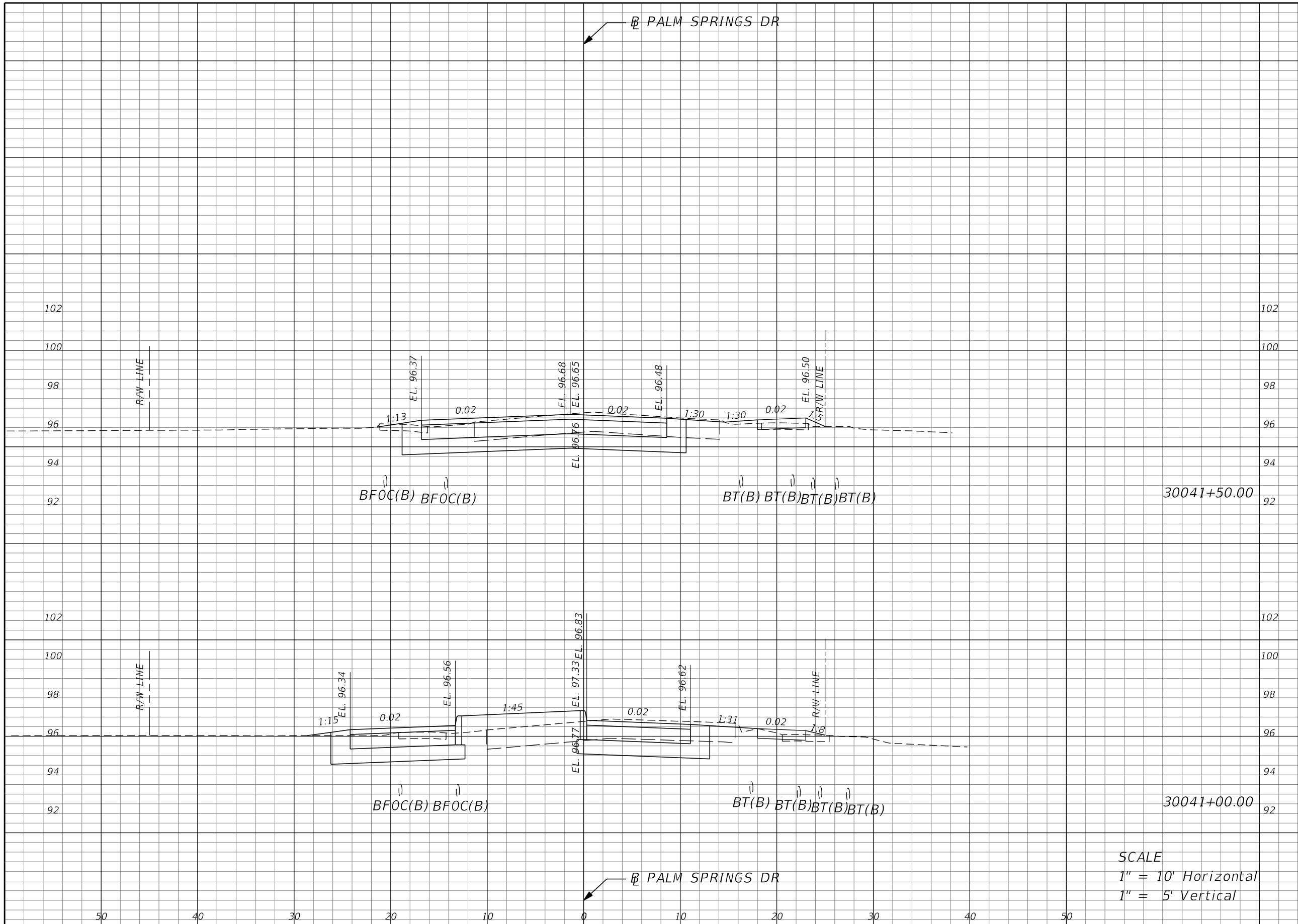


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 267

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
			41.04		0.92
		23.49		5.05	
			49.17		0.00
		29.61		22.18	

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

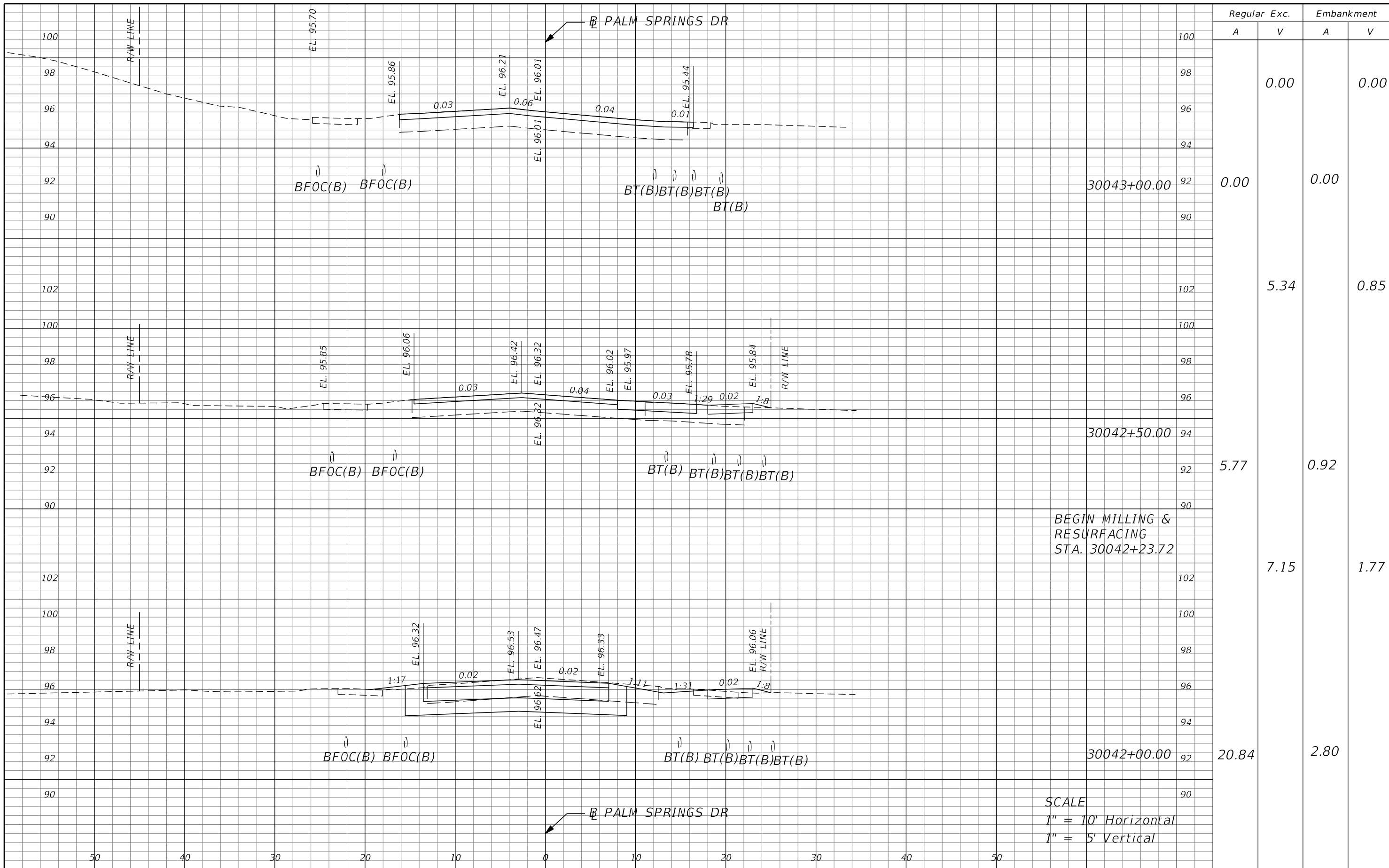


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 268

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00	0.00	0.00	0.00	0.00	0.00
5.34	0.85				
5.77	0.92				
7.15	1.77				
20.84	2.80				

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



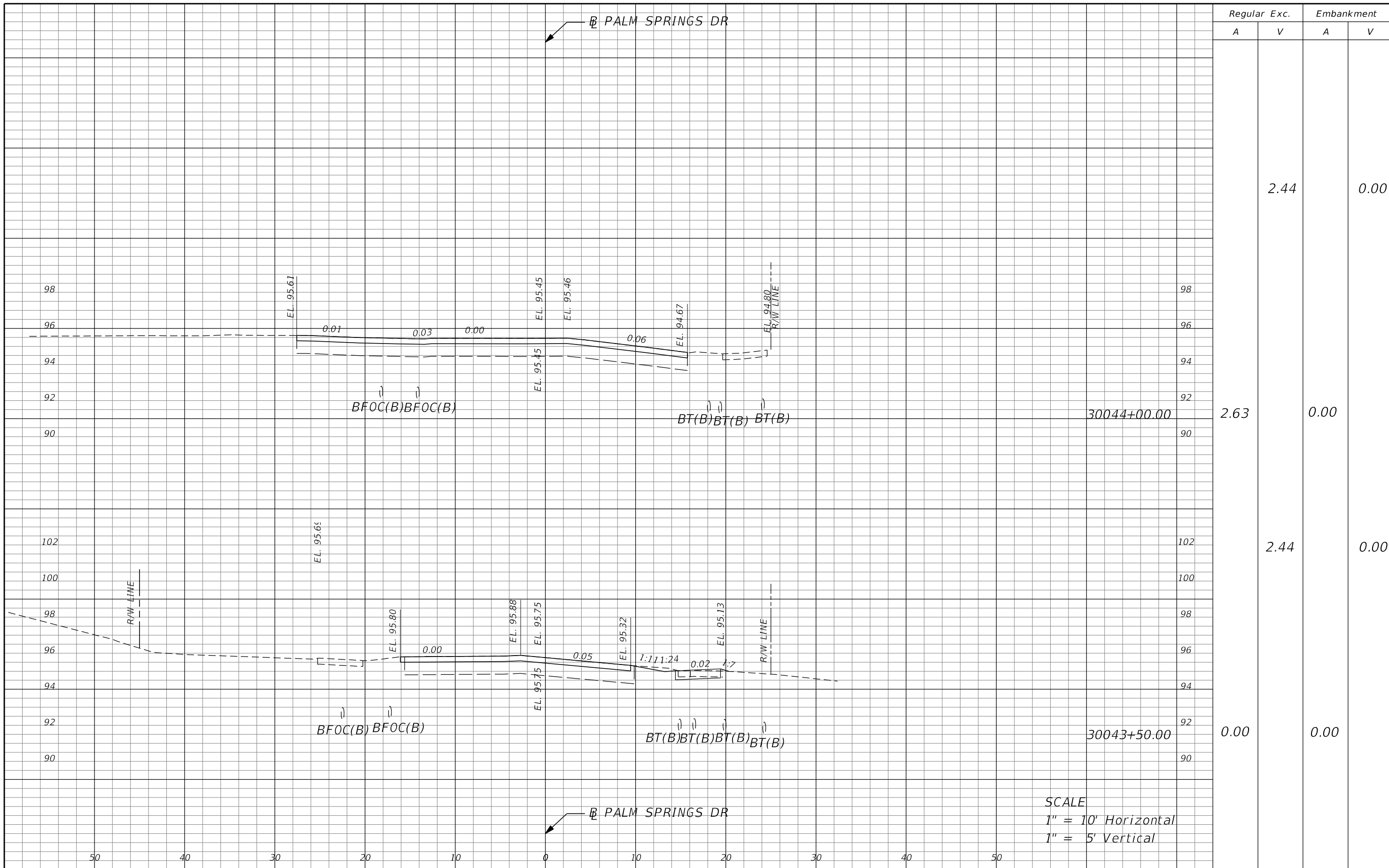
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

CROSS SECTIONS

SHEET NO.
 269

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.44		0.00
2.63		0.00			
			2.44		0.00
0.00		0.00			

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

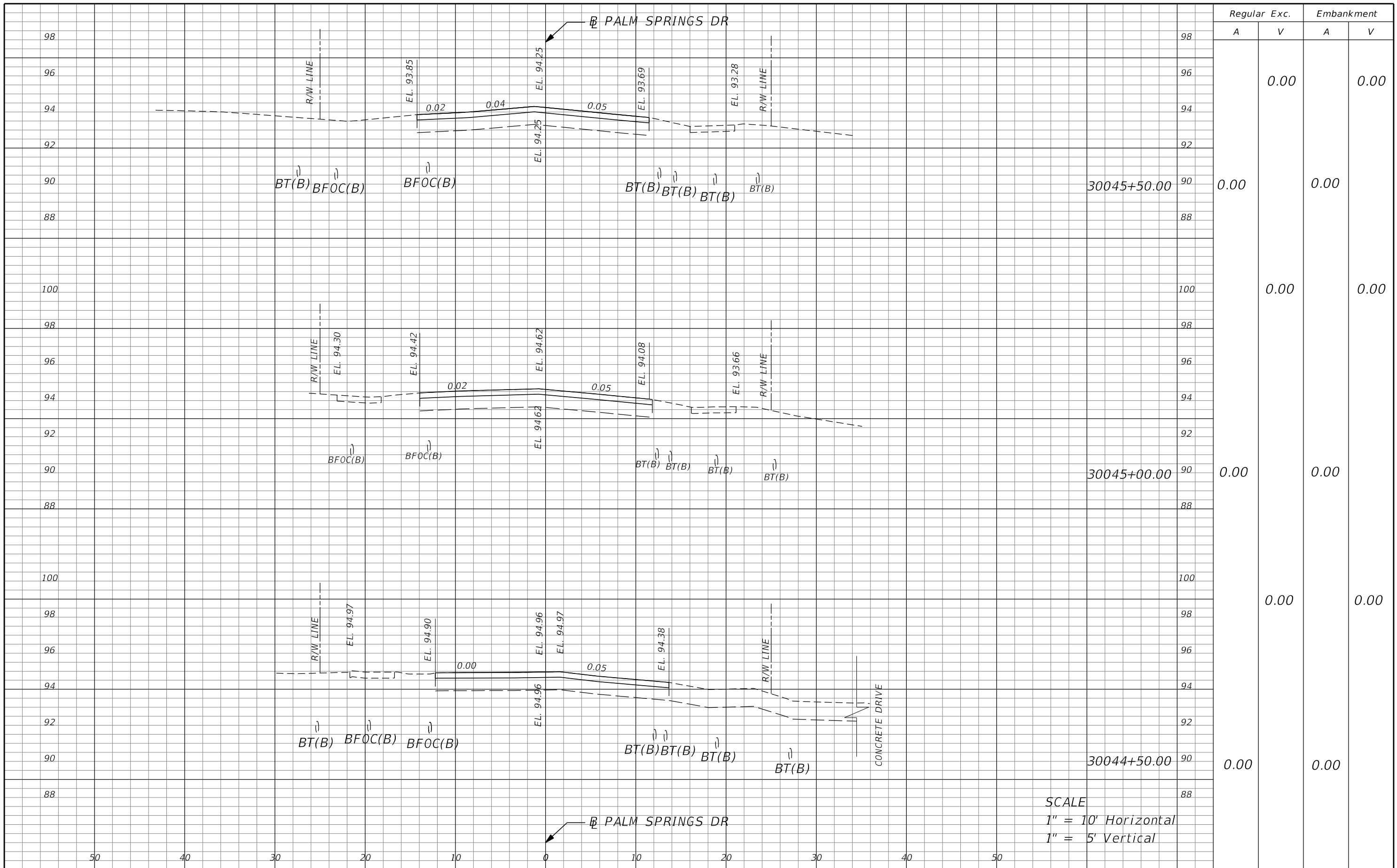


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 270

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




Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

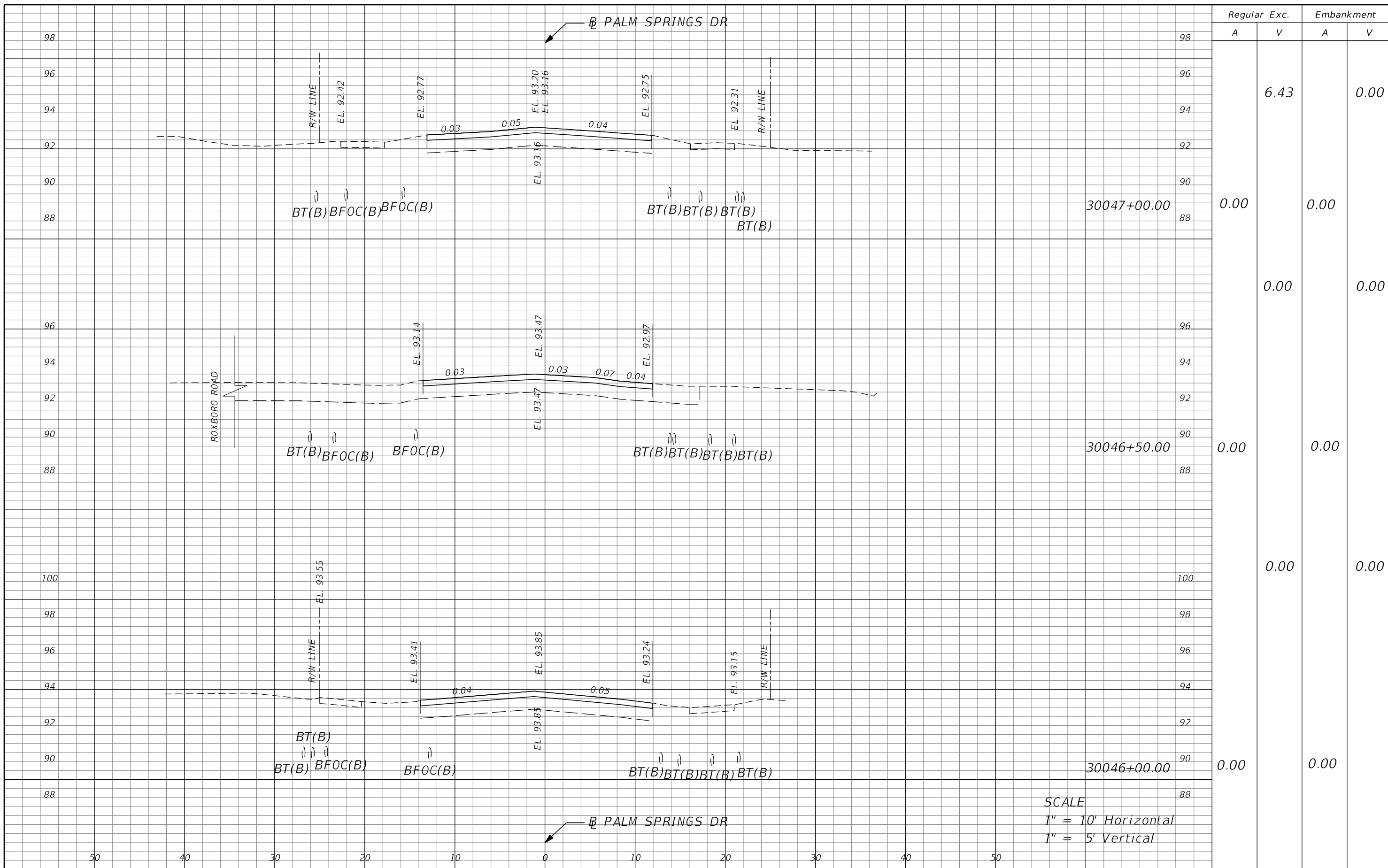


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 271

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



SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00	6.43	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 LICENSE NO. 90792
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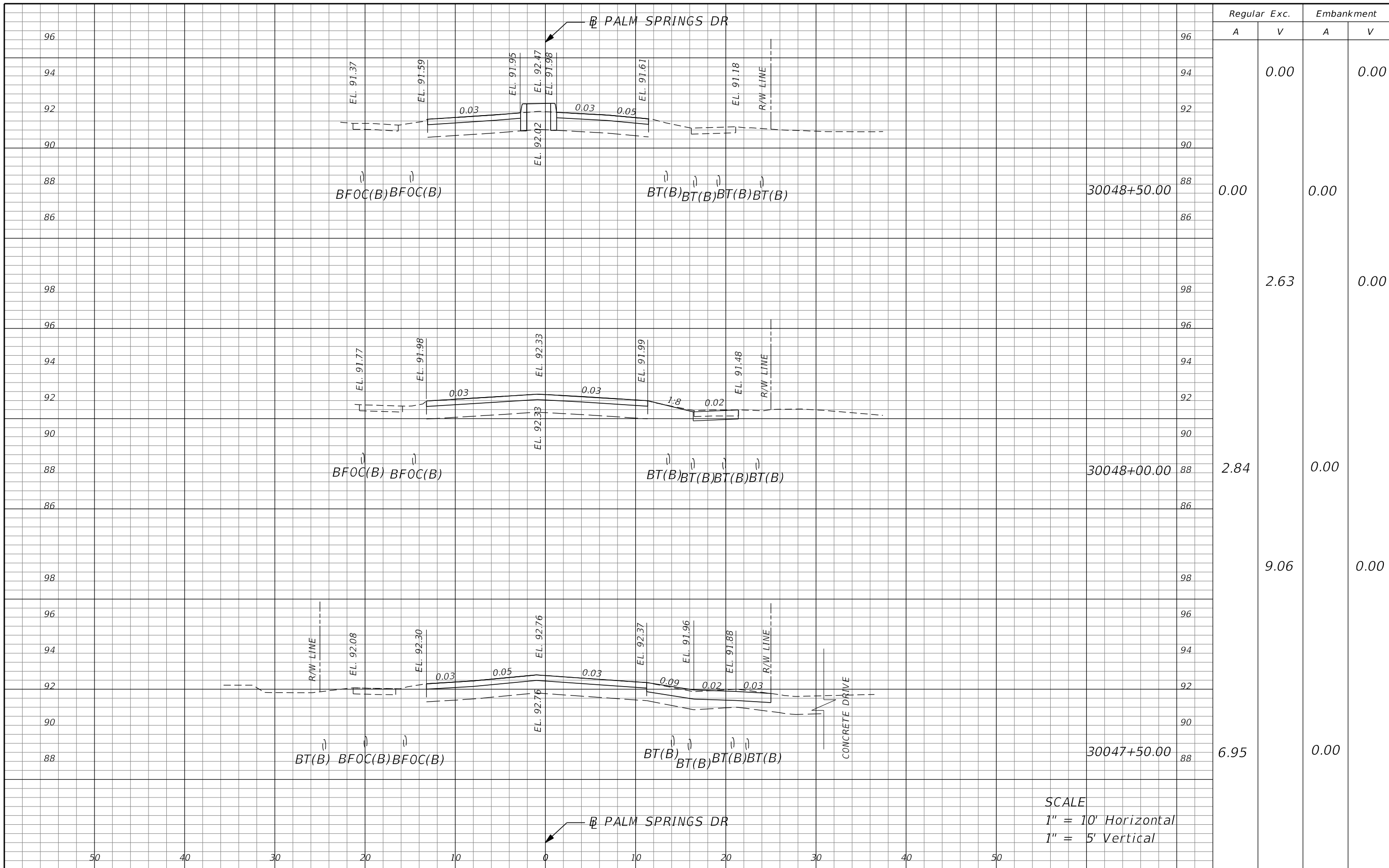


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 272

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00	0.00	0.00	0.00	0.00	0.00
2.84	2.63	0.00	0.00	0.00	0.00
6.95	9.06	0.00	0.00	0.00	0.00

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
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 PHONE 407.420.4200
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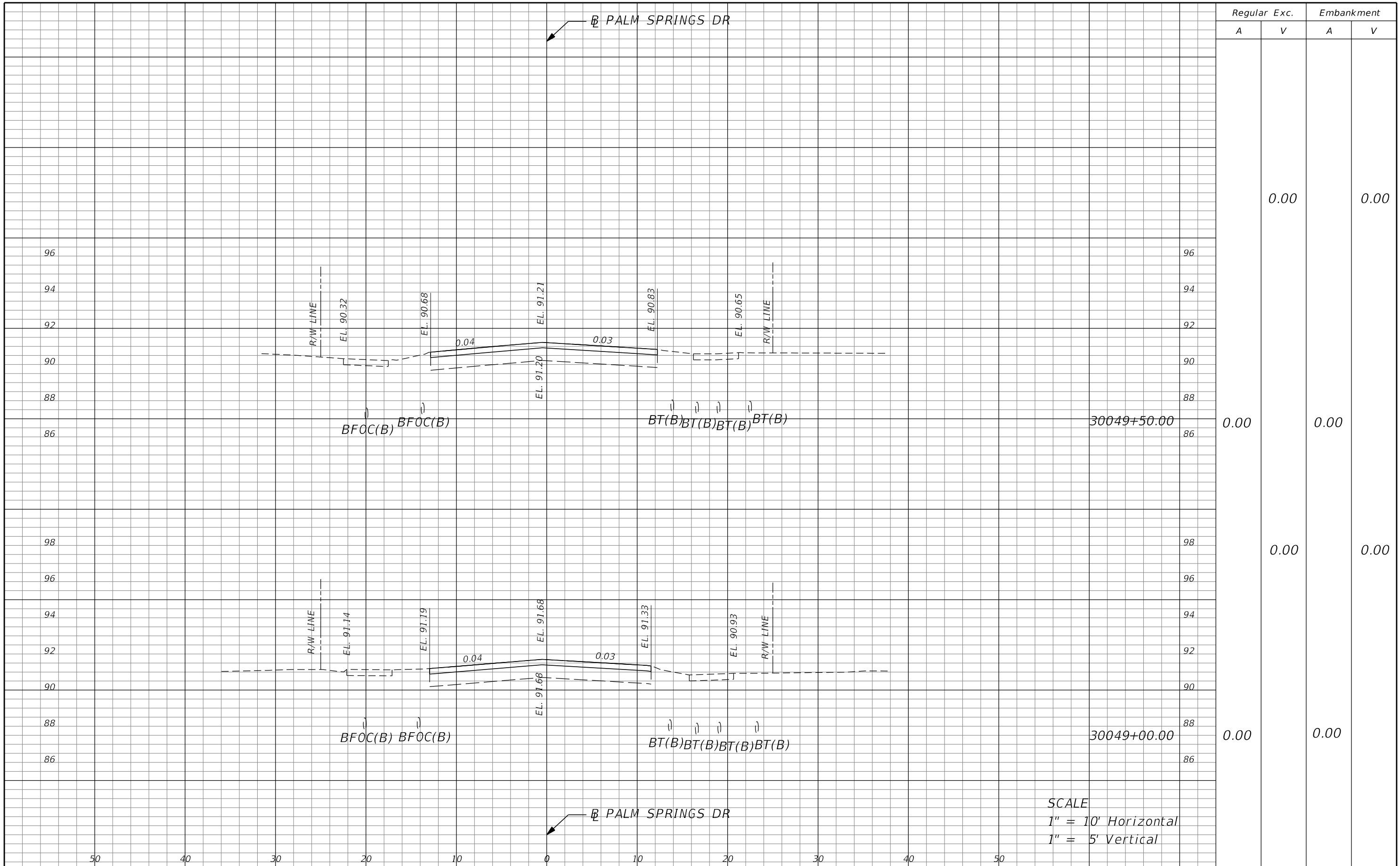


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 273

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



Regular Exc.		Embankment	
A	V	A	V
	0.00		0.00
0.00		0.00	
	0.00		0.00
0.00		0.00	

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
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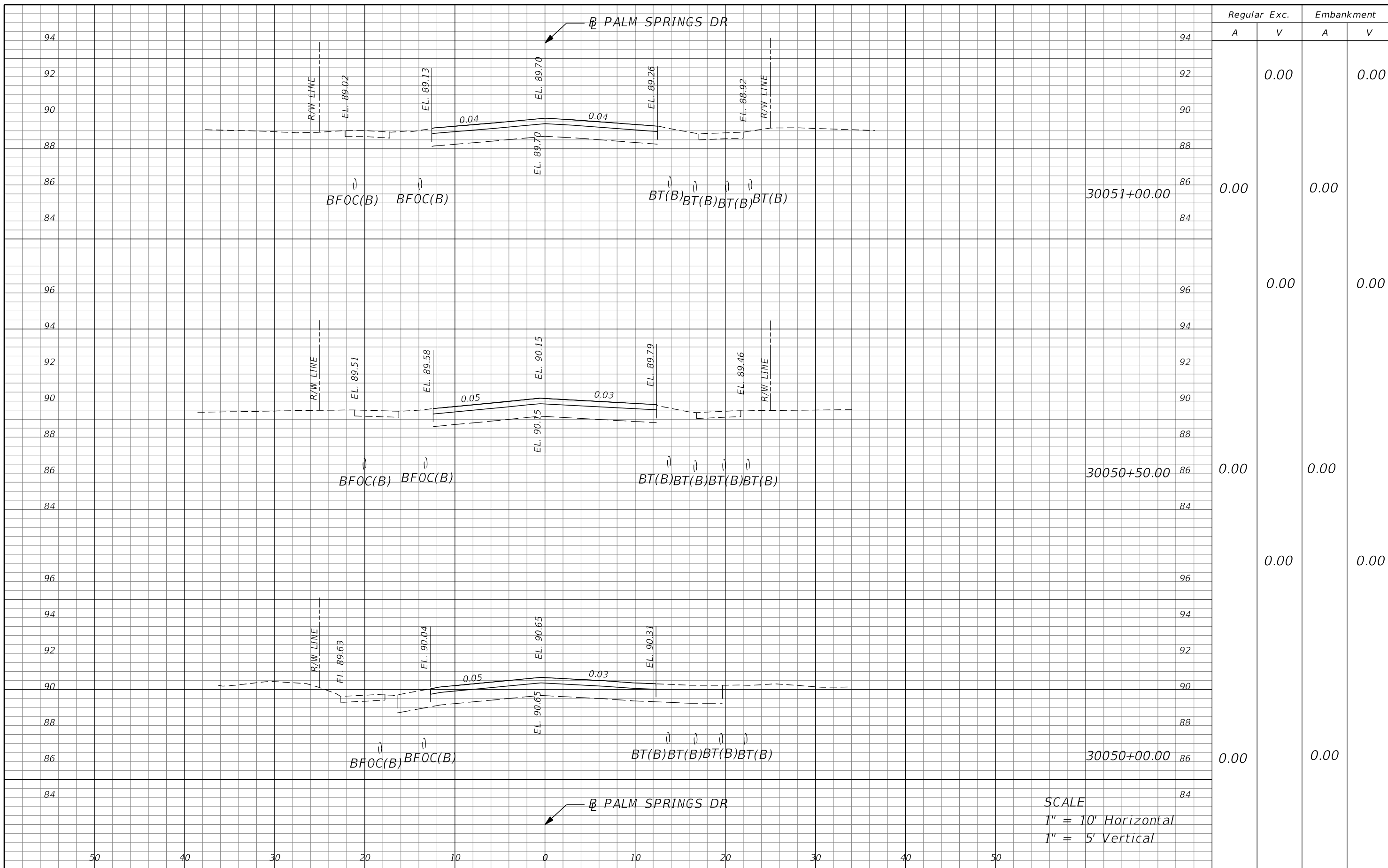


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 274

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

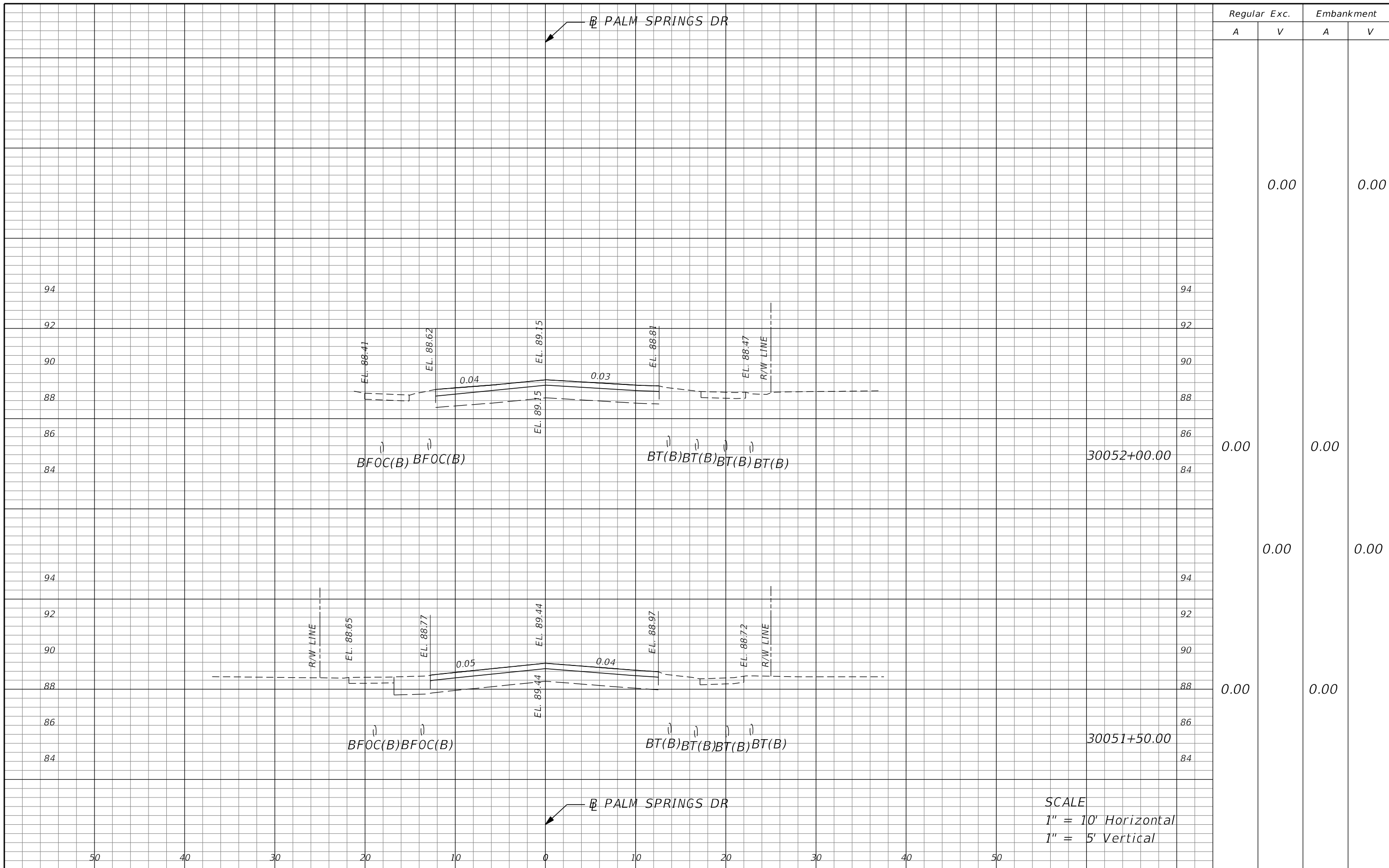
SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

CROSS SECTIONS

SHEET NO.
 275

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
	0.00		0.00		0.00
0.00		0.00		0.00	
0.00		0.00		0.00	

SCALE
 1" = 10' Horizontal
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REVISIONS			
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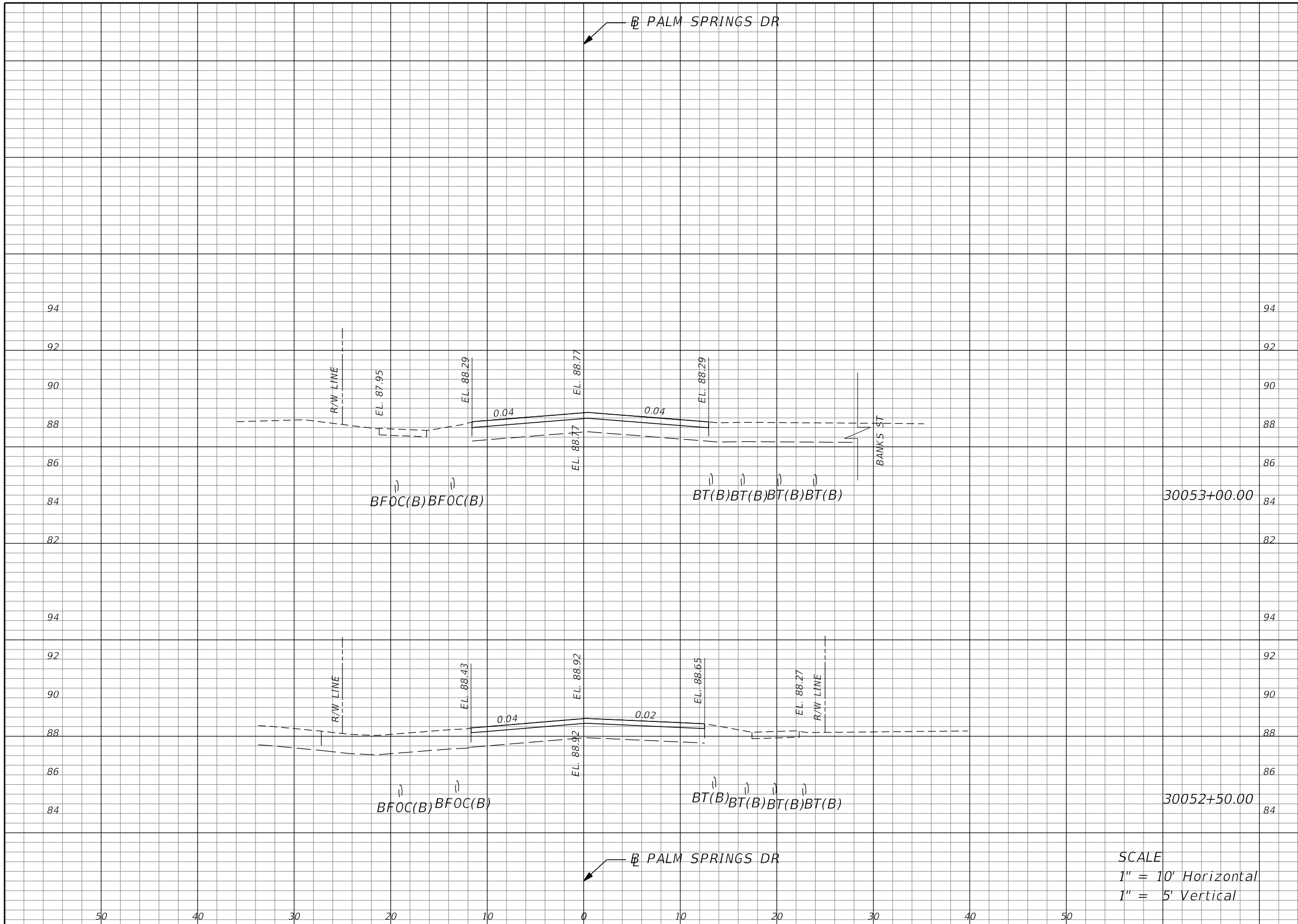


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 276

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Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
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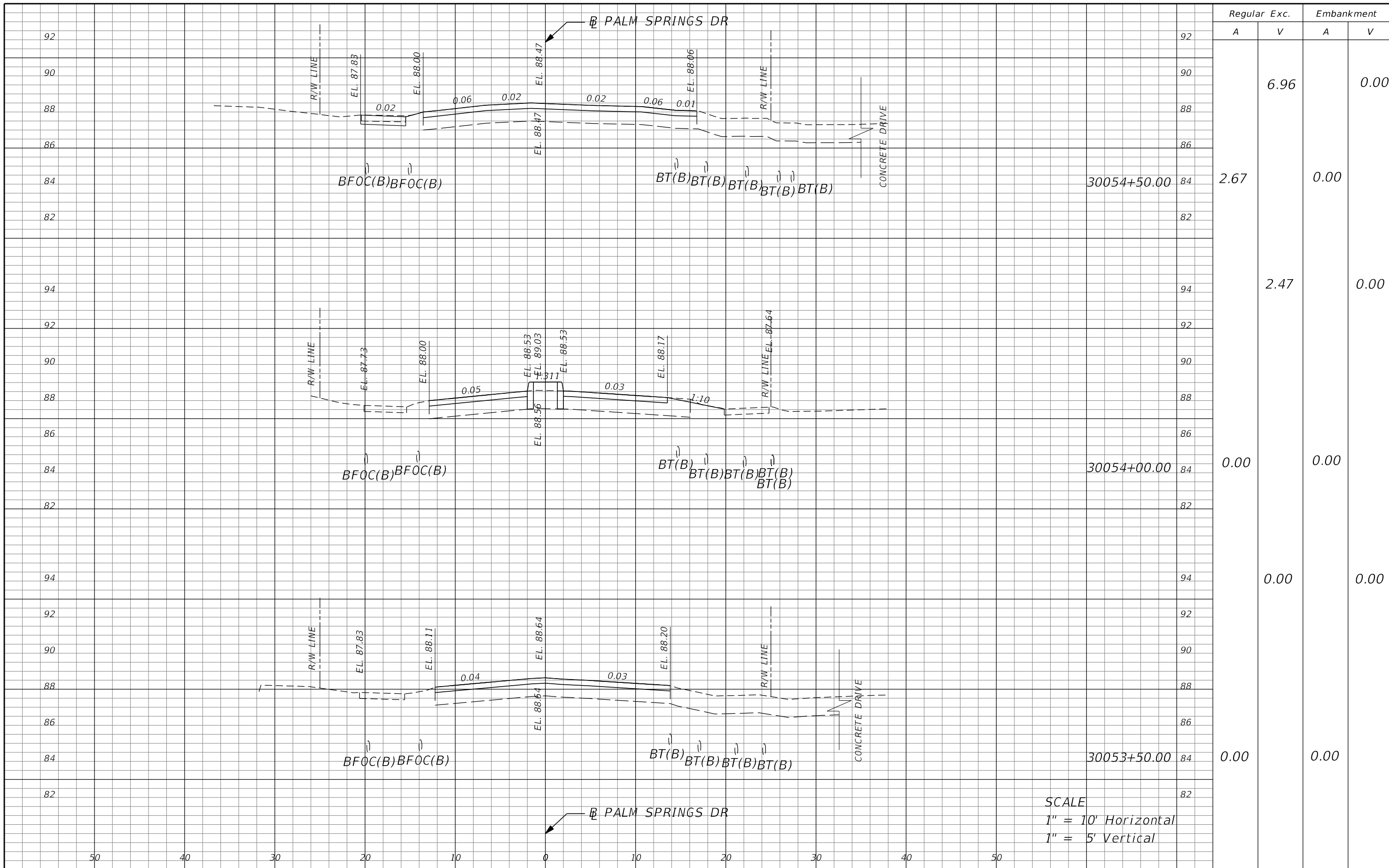


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 277

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Regular		Exc.	Embankment	
A	V	A	V	
2.67	6.96	0.00	0.00	
0.00	2.47	0.00	0.00	
0.00	0.00	0.00	0.00	

REVISIONS			
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 PHONE 407.420.4200
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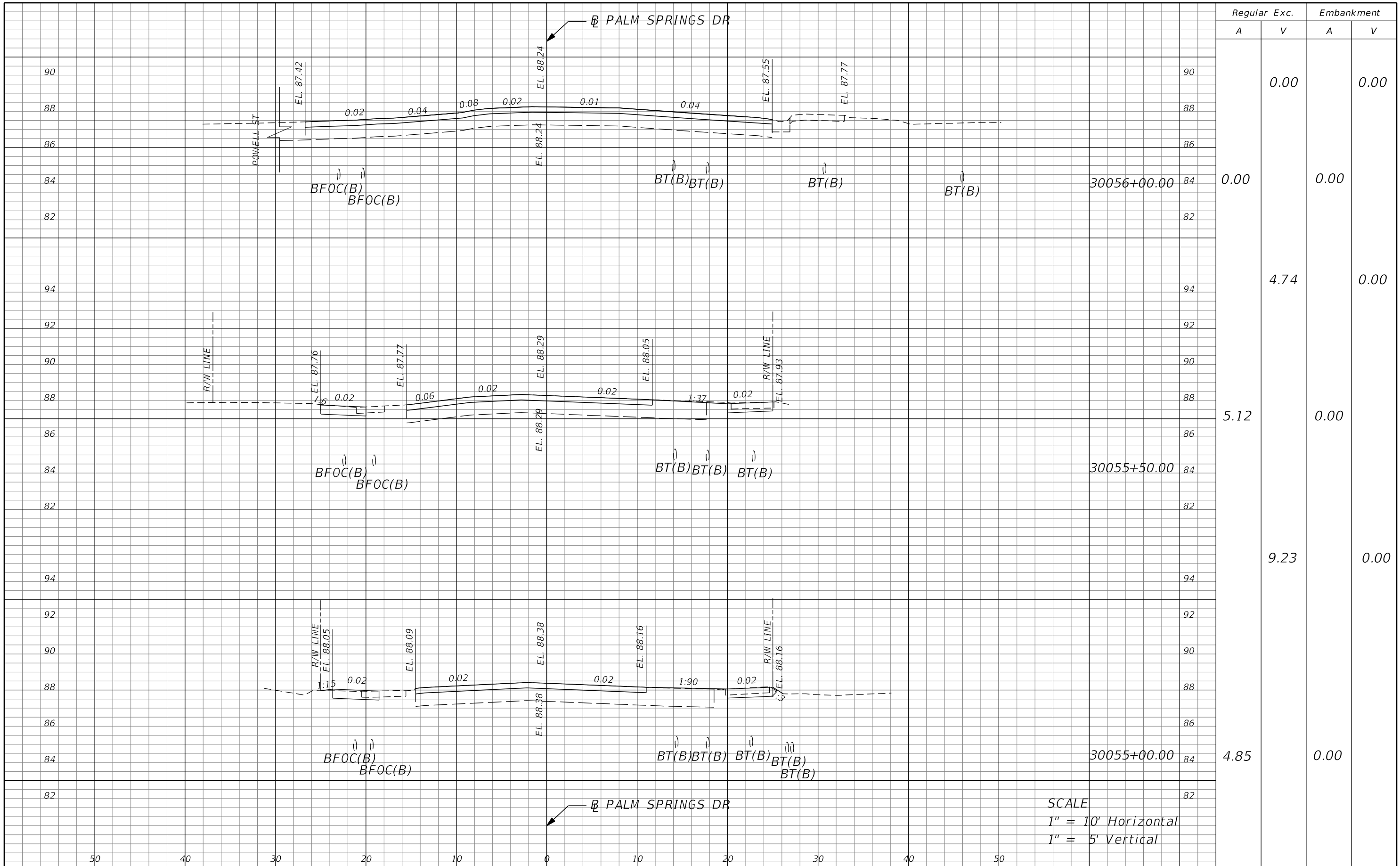
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

CROSS SECTIONS

SHEET NO.
 278

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Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00	0.00	0.00	0.00	0.00	0.00
0.00	4.74	0.00	0.00	0.00	0.00
5.12	0.00	0.00	0.00	0.00	0.00
4.85	9.23	0.00	0.00	0.00	0.00

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
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 PHONE 407.420.4200
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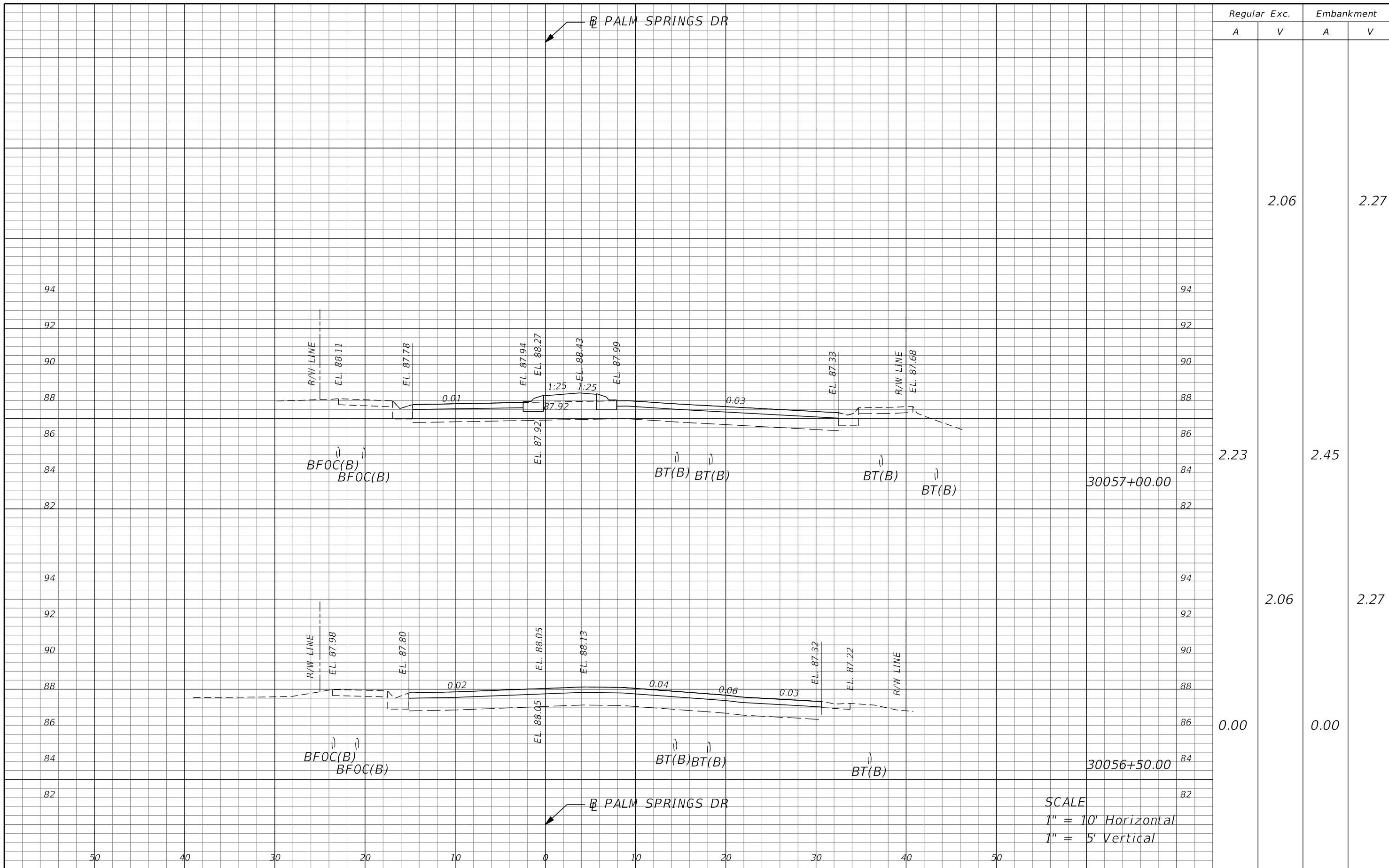


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
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 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 279

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Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.06		2.27
2.23				2.45	
			2.06		2.27
0.00				0.00	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
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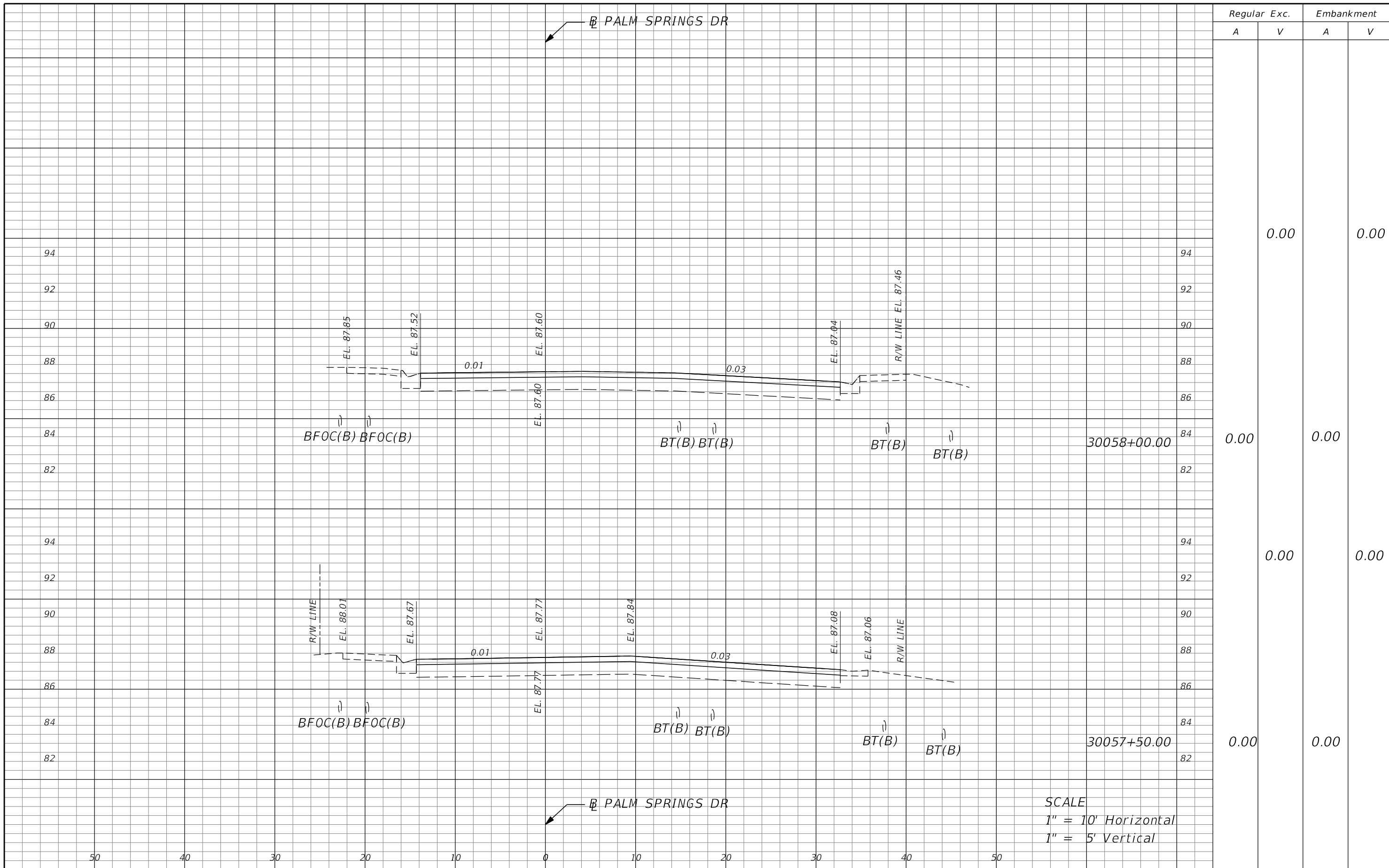
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

CROSS SECTIONS

SHEET NO.
 280

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Regular		Exc.		Embankment	
A	V	A	V	A	V
	0.00		0.00		0.00
0.00		0.00		0.00	
	0.00		0.00		0.00
0.00		0.00		0.00	

SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

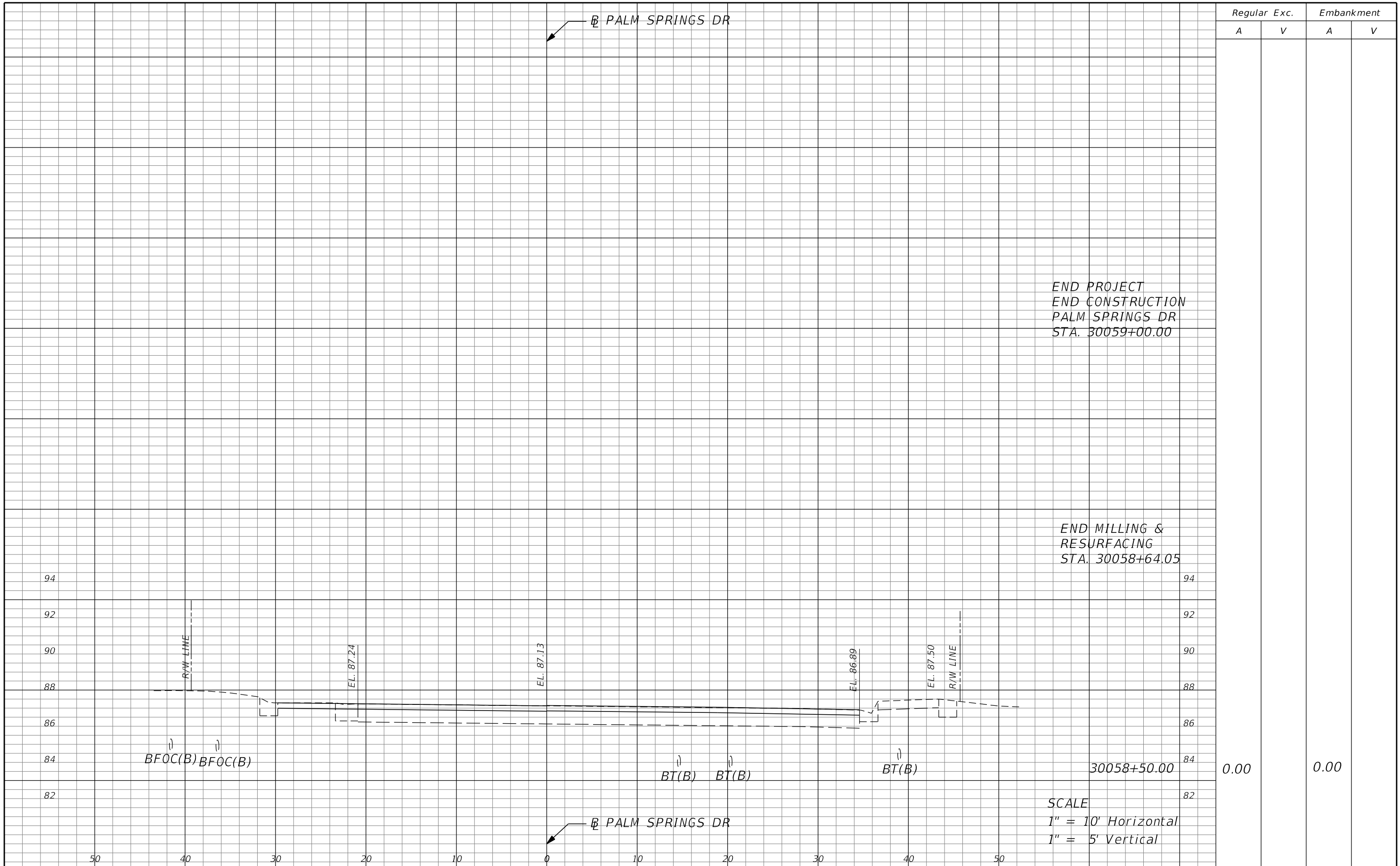
TYLER VALILA, P.E.
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 ORLANDO, FL 32801
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
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CROSS SECTIONS

SHEET NO.
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Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00				0.00	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

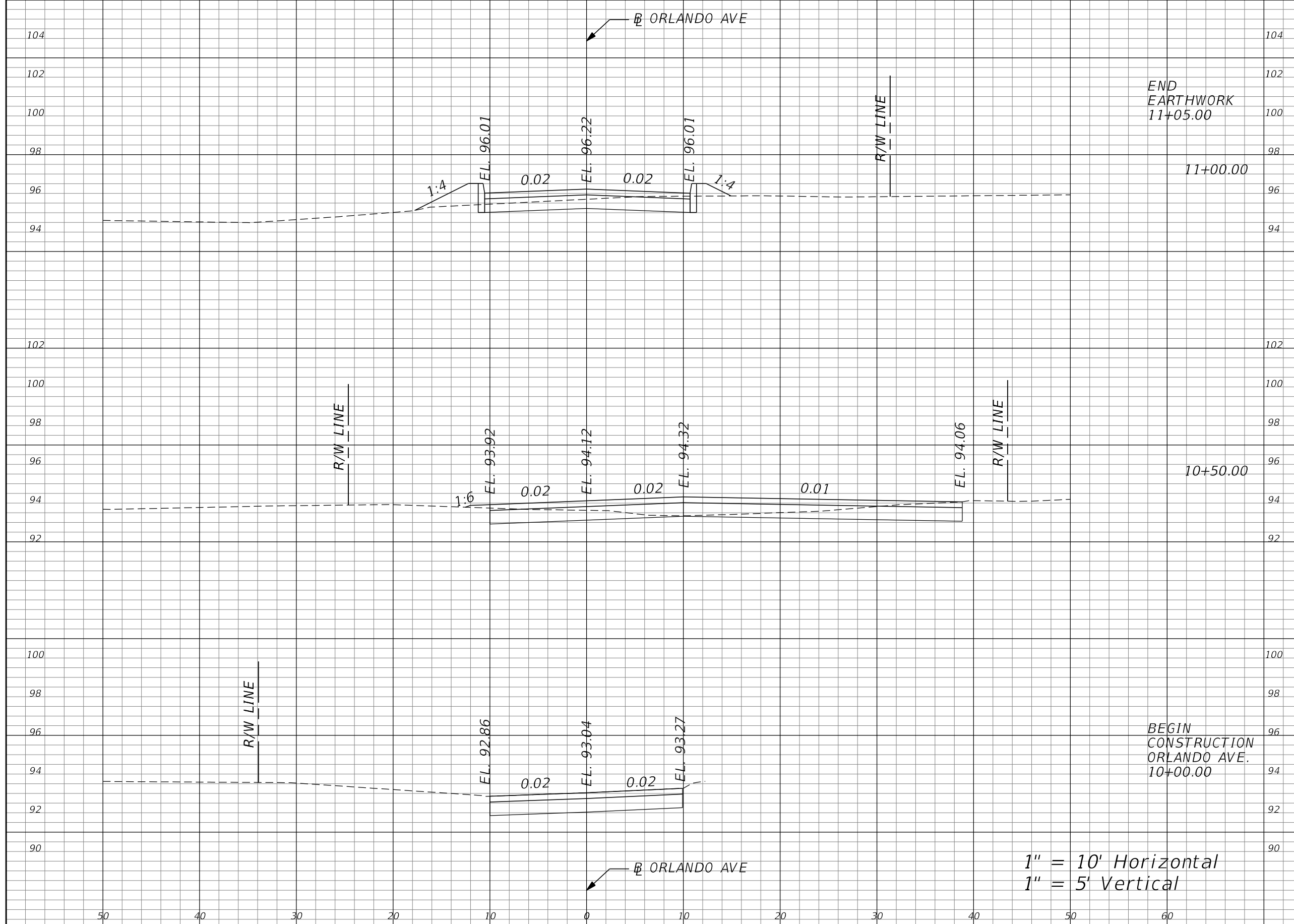
TYLER VALILA, P.E.
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 FAX 407.420.4242

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
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SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

SHEET NO.
 282

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Regular		Exc.		Embankment	
A	V	A	V	A	V
13	33	6	5		
23	39	0	0		
20	0	0	0		

END
EARTHWORK
11+05.00

BEGIN
CONSTRUCTION
ORLANDO AVE.
10+00.00

1" = 10' Horizontal
1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

CROSS SECTIONS

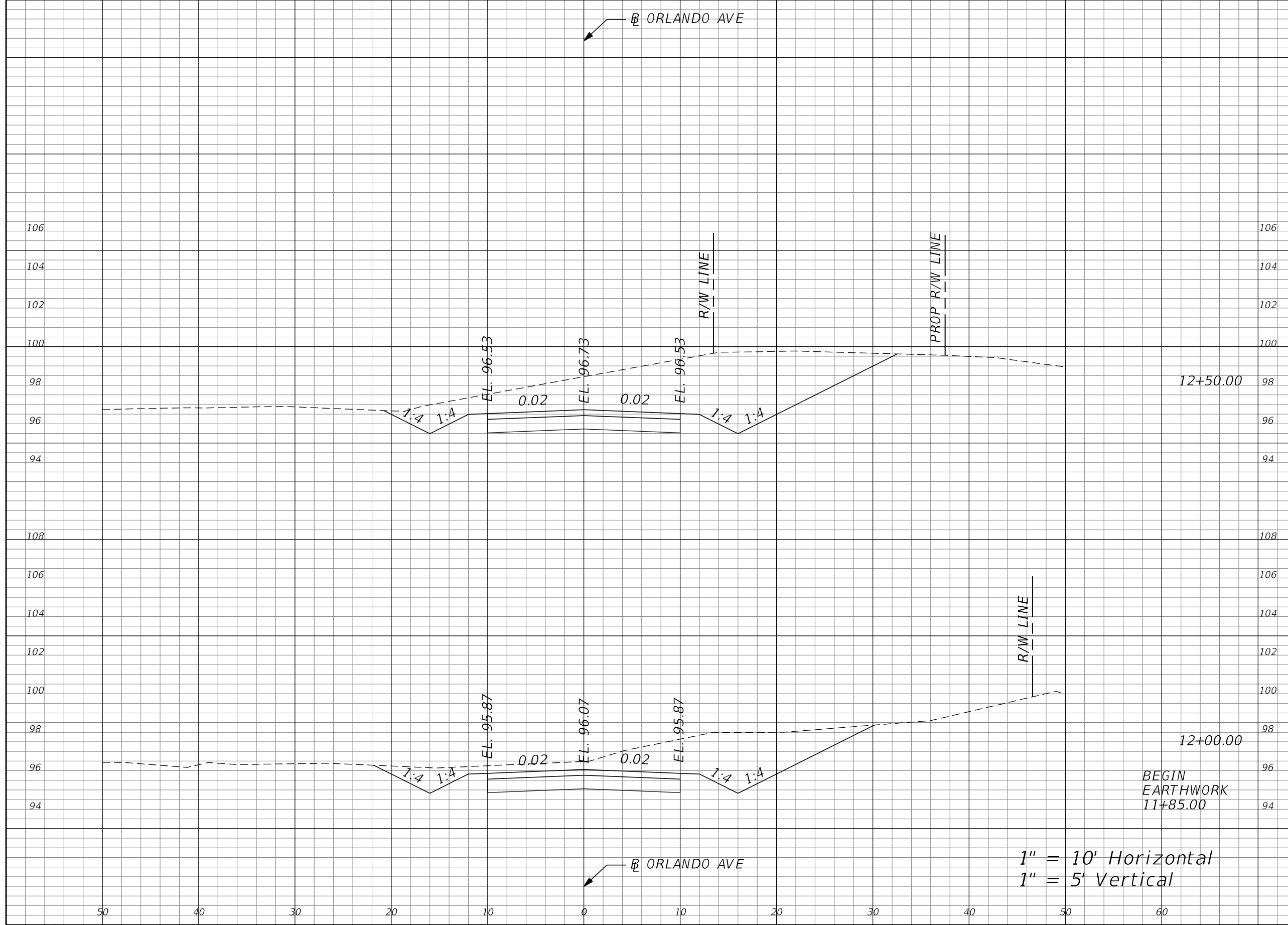
SHEET NO.
283

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

ORLANDO AVE

ORLANDO AVE

Regular		Exc.		Embankment	
A	V	A	V	A	V
122	187	0	0	0	0
79	34	0	2	0	2



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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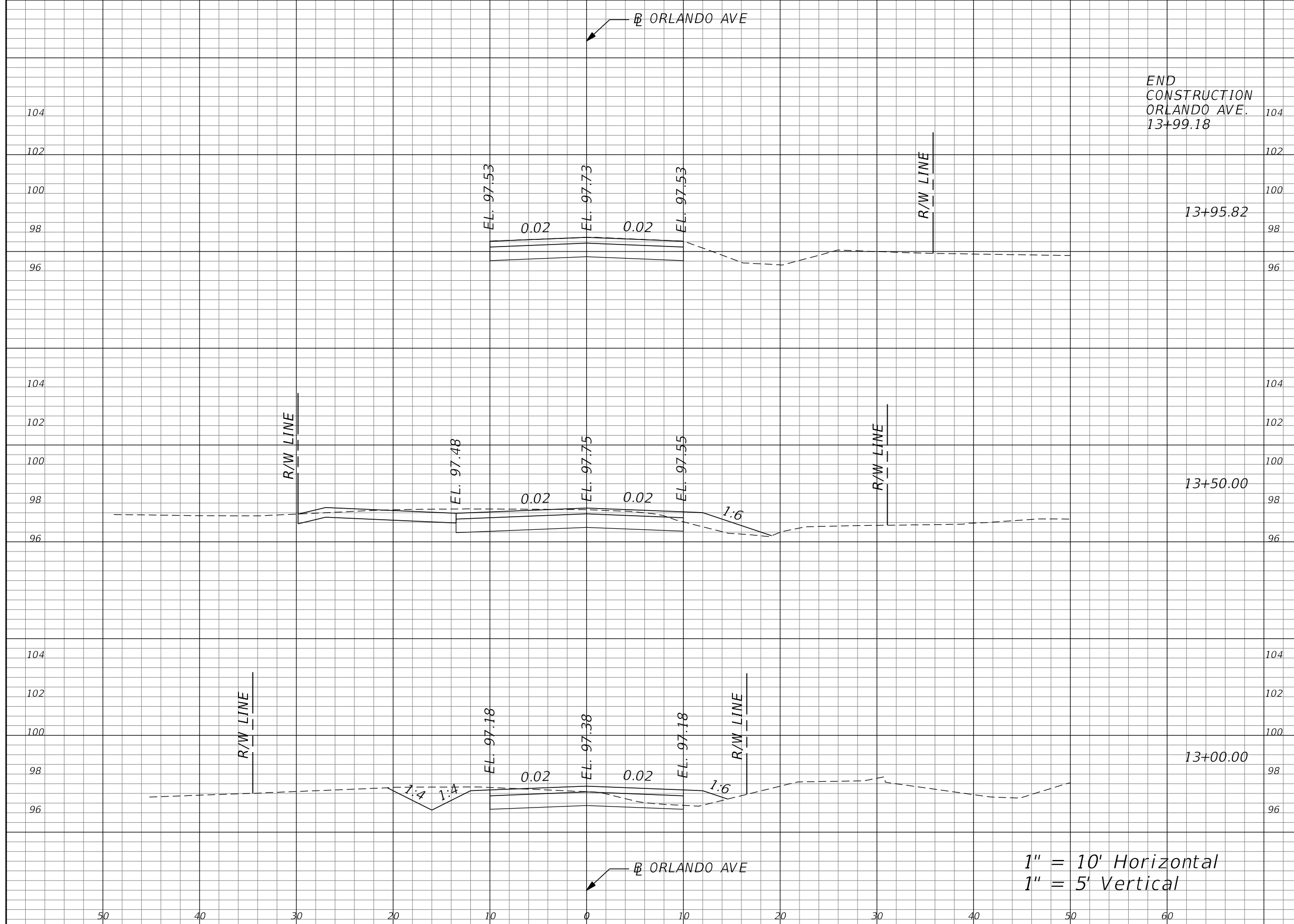
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
284

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Regular		Exc.		Embankment	
A	V	A	V	A	V
20	43	0	4		
31	46	5	6		
19	131	3	2		

END
CONSTRUCTION
ORLANDO AVE.
13+99.18

1" = 10' Horizontal
1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
285

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

**STORM WATER POLLUTION PREVENTION PLAN
ROLLING HILLS AREA ROADWAYS
FINANCIAL PROJECT ID: 01907084 COUNTY: SEMINOLE**

I. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY
THE PROJECT INCLUDES MILLING AND RESURFACING, SIDEWALK AND DRIVEWAY CONSTRUCTION, ROUNDABOUT CONSTRUCTION, AND SAFETY UPGRADES IN SEMINOLE COUNTY, FLORIDA. THIS PROJECT IS LOCATED IN DISTRICT 3 AND 4 OF SEMINOLE COUNTY, FLORIDA. THE PROJECT TOTAL LENGTH IS 2.49 MILES.

(2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

1. INSTALLATION OF EROSION CONTROL DEVICES
2. CLEARING AND GRUBBING
3. ROUNDABOUT CONSTRUCTION
4. MILLING AND RESURFACING OF TRAVEL LANES, SHOULDERS, MEDIAN OPENINGS AND RAMPS
5. INSTALLATION OF LIGHT POLES
6. PLACEMENT OF SOD AND LANDSCAPING

- (a) PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
- (b) MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.
- (c) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT STANDARD INDEXES AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (E&SC MANUAL).
- (d) THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.

(3) GENERAL NOTES:

- (a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
- (b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
- (c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH/SWALE CHECK DAMS DURING CONSTRUCTION.
- (d) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.
- (e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
- (f) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
- (g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
- (h) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.

(4) PROJECT AREAS:

THE ESTIMATED TOTAL PROJECT AREA IS 6.5 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 3.7 ACRES.

(5) RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR: GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.35
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUNOFF COEFFICIENT:
BEFORE: Cw (B) = 0.75 DURING: Cw (D) = 0.85 AFTER: Cw (A) = 0.80

THE RUNOFF COEFFICIENT DURING CONSTRUCTION, Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
6 - ASTATULA-APOPKA FINE SANDS (0% TO 5% SLOPES)	A	2 TO 18 INCHES
7 - ASTATULA-APOPKA FINE SANDS (5% TO 8% SLOPES)	A	0 INCHES
8 - ASTATULA-APOPKA FINE SANDS (8% TO 12% SLOPES)	A	0 TO 18 INCHES
31 - TAVARES-MILLHOPPER COMPLEX (0% TO 5% SLOPES)	A	6 TO 18 INCHES
34 - URBAN LAND (0% TO 2% SLOPES)		
99 - WATER		

REFERENCE: USDA WEB SOIL SURVEY OF SEMINOLE COUNTY, FLORIDA

(7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

- (a) SITE MAP: SEE CONSTRUCTION PLANS.
- (b) DRAINAGE MAPS OR MAPS WITH APPROPRIATE CONTOURS: N/A

(8) RECEIVING WATERS:


THE PROJECT DRAINS TO ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT STORMWATER SYSTEM TO VARIOUS LAKES AND RIVERS.

(9) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

DESCRIPTION	STATION	LATITUDE	LONGITUDE
(a) BERNARD POND, DUCK POND			

(10) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

- (a) RUNOFF FROM MAINLINE SHEET FLOWS TO ROADSIDE DITCHES, STORM DRAINS, AND SOD.
- (b) LOCATION OF PERMANENT CONTROLS: ROADSIDE DITCHES AND STORM SEWER ARE THE PRIMARY STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE ROADWAY PLANS.
- (c) STORMWATER RUNOFF SHALL BE CONVEYED TO EITHER TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR TO PERMANENT STORMWATER MANAGEMENT FACILITIES (TREATMENT AND ATTENUATION PONDS). THE PROPOSED SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY. THE OUTFALL STRUCTURES ARE TO BE PLUGGED WHEN TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS OR PERMANENT STORMWATER MANAGEMENT FACILITIES ARE USED FOR EROSION AND SEDIMENT CONTROL.
- (d) TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.

REVISIONS				RICARDO A. CINTRON, P.E. LICENSE NO. 76423 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		STORMWATER POLLUTION PREVENTION PLAN (1)	SHEET NO. 286
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH	01907084		
					ST., PALM SPRINGS DR.			

II. CONTROLS:

SEDIMENT AND EROSION CONTROLS

(1) WATER QUALITY MONITORING:

- (a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.
- (b) THE ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

(2) STABILIZATION PRACTICES:

- (a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, AND BMP'S. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).
- (b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.
- (c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.
- (d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.
- (e) SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.
- (f) SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE.
- (g) MODIFY SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

(a) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

- (1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.
- (2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOW POINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
- (3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(b) INLET PROTECTION SYSTEM

PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

- (1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.
- (2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.
- (3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.

(c) FLOATING TURBIDITY BARRIER

PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.

- (1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.
- (2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (<3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.
- (3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION
- (4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.
- (5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
- (6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS GREATER THAN 5.0'.

(4) APPROVED STATE OR LOCAL PLANS AND PERMITS FDEP RULE 62 -25 F.A.C.

III. OTHER CONTROLS:

(1) WASTE DISPOSAL

- (a) PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
- (b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- (c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.
- (d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

- (a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPULIN AT ALL TIMES.
- (b) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.


(3) STATE AND FEDERAL REGULATIONS: PERMITS WILL BE NOT BE REQUIRED FROM THE ST. JOHN'S WATER MANAGEMENT DISTRICT & US ARMY CORPS OF ENGINEERS. DEWATERING TO BE PERFORMED UNDER GENERAL PERMIT BY RULE FOR SHORT-TERM DEWATERING IN ACCORDANCE WITH 40E-2.061 (2)(c) F.A.C.. A NPDES PERMIT WILL BE REQUIRED FROM THE FLORIDA DEPARTMENT ENVIRONMENTAL PROTECTION.

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)

PROVIDE THE COUNTY WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT RACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, UBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT ***INSERT CONTACT INFO WHEN CONFIRMED WITH COUNTY***

IV. MAINTENANCE:

MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. REMOVE AND PROPERLY DISPOSE OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

REVISIONS				RICARDO A. CINTRON, P.E. LICENSE NO. 76423 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		STORMWATER POLLUTION PREVENTION PLAN (2)	SHEET NO. 287
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH	01907084		
					ST., PALM SPRINGS DR.			


- (1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.
- (2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- (3) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- (4) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V. INSPECTION:

- (1) INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT.
- (2) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
- (3) COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

VI. TRACKING AND REPORTING:

- (1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE SEMINOLE COUNTY DEPARTMENT OF PUBLIC WORKS DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.
- (2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED THE EROSION CONTROL PAY ITEMS SUMMARIZED IN THE PLANS.
- (3) THE CONTRACTOR SHALL USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

REVISIONS				<small>RICARDO A. CINTRON, P.E. LICENSE NO. 76423</small>  <small>315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242</small>	<small>SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1</small>		<p style="text-align: center;">STORMWATER POLLUTION PREVENTION PLAN (3)</p>	<p style="text-align: center;">SHEET NO. 288</p>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION			SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		BEGIN STA.	END STA.	DESCRIPTION						P	F	P	F		
0160 4	TYPE B STABILIZATION	10007+76.56	10012+37.83		RT				SY	287.3		19787			
		10014+11.76	10019+98.89		RT/LT					4458.0					
		10019+98.89	10021+00.00		RT/LT					339.2					
		10028+49.05	10030+03.55		RT					73.1					
		10029+47.35	10029+84.27		LT					30.7					
		20010+65.00	20012+56.16		RT/LT					635.0					
		20012+56.16	20018+20.00		RT/LT					4488.1					
		30020+59.96	30024+00.61		RT/LT					2823.8					
		30024+00.61	30028+40.58		RT/LT					2684.7					
		30028+40.58	30030+20.77		RT/LT					461.8					
		30030+20.77	30033+77.25		RT/LT					1001.5					
		30033+77.25	30039+57.09		RT/LT					1609.3					
		30039+57.09	30042+23.72		RT/LT					894.1					
285708	OPTIONAL BASE, BASE GROUP 08	10007+76.56	10012+37.83		RT				SY	287.3		18156			
		10014+11.76	10019+98.89		RT/LT					3994.1					
		10019+98.89	10021+00.00		RT/LT					339.2					
		10028+49.05	10030+03.55		RT					73.1					
		10029+47.35	10029+84.27		LT					30.7					
		20010+65.00	20012+56.16		RT/LT					542.3					
		20012+56.16	20018+20.00		RT/LT					3849.6					
		30020+59.96	30024+00.61		RT/LT					2388.0					
		30024+00.61	30028+40.58		RT/LT					2684.7					
		30028+40.58	30030+20.77		RT/LT					461.8					
		30030+20.77	30033+77.25		RT/LT					1001.5					
		30033+77.25	30039+57.09		RT/LT					1609.3					
		30039+57.09	30042+23.72		RT/LT					894.5					
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	10000+25.06	10006+11.41		RT/LT				SY	1609.9		27538			
		10007+19.41	10012+59.07		RT/LT					1199.2					
		10012+87.07	10014+98.67		RT/LT					582.4					
		10021+00	10026+05.05		RT/LT					1871.7					
		10026+05.05	10029+97.54		RT/LT					2346.7					
		20002+47.72	20011+00.00		RT/LT					2370.6					
		20018+00.00	20022+18.69		RT/LT					897.5					
		20022+18.69	20025+19.13		RT/LT					934.3					
		20025+19.13	20029+98.22		RT/LT					1197.7					
		20029+98.22	20034+14.02		RT/LT					1441.4					
		20034+14.02	20042+03.22		RT/LT					2629.8					
		30004+48.10	30008+54.64		RT/LT					1774.8					
		30008+54.64	30011+84.64		RT/LT					833.2					
		30011+84.64	30015+14.63		RT/LT					1100.9					
		30015+14.63	30020+59.96		RT/LT					1258.9					
		30042+23.72	30044+23.40		RT/LT					701.9					
		30044+23.40	30046+55.60		RT/LT					657.3					
		30046+55.60	30049+62.04		RT/LT					840.9					
		30049+62.04	30052+62.04		RT/LT					836.2					
		30052+62.04	30055+61.79		RT/LT					812.0					
		30055+61.79	30058+64.05		RT/LT					1640.6					
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22	10007+76.56	10012+37.83		RT				TN	31.6		1997			
		10014+11.76	10019+98.89		RT/LT					439.3					
		10019+98.89	10021+00.00		RT/LT					37.3					
		10028+49.05	10030+03.55		RT					8.0					
		10029+47.35	10029+84.27		LT					3.4					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SUMMARY OF QUANTITIES

SHEET NO.
289

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

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION			SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		BEGIN STA.	END STA.	DESCRIPTION						P	F	P	F			
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22 (CONT'D)	20010+65.00	20012+56.16		RT/LT				TN	59.7						
		20012+56.16	20018+20.00		RT/LT					423.5						
		30020+59.96	30024+00.61		RT/LT					262.7						
		30024+00.61	30028+40.58		RT/LT					295.3						
		30028+40.58	30030+20.77		RT/LT					50.8						
		30030+20.77	30033+77.25		RT/LT					110.2						
		30033+77.25	30039+57.09		RT/LT					177.0						
		30039+57.09	30042+23.72		RT/LT					98.4						
0523 1	PATTERNED PAVEMENT , VEHICULAR AREAS	10000+28.52	10029+97.54		RT/LT				SY	908.5		5067				
		20002+47.72	20042+13.21		RT/LT					1803.6						
		30004+52.84	30058+64.05		RT/LT					2354.5						

SUMMARY OF ROUNDABOUT APRON CONCRETE

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0350 30 13	CONC PVMT FOR ROUNDABOUT APRON, 12"	1198		ALL ROUNDABOUTS (SY)	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD COUNTY CIP No.
 RAYMOND AVE.,NORTH 01907084
 ST.,PALM SPRINGS DR.

SUMMARY OF QUANTITIES

SHEET NO.
 290

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SUMMARY OF 0337 7 83 ASPH CONC FC, TRAFFIC C, FC-12.5, PG 76-22

LOCATION		SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	AREA (SY)	TONS	CONSTRUCTION REMARKS	DESIGN NOTES
BEGIN STA.	END STA.									
10000+28.52	10029+97.54	RT/LT				2	11878.9	1301.7		
20002+47.72	20042+13.21	RT/LT				2	13487.6	1483.6		
30004+52.84	30058+64.05	RT/LT				2	19275.5	2120.3		
SUB-TOTAL:							44642	4906		
TOTAL:							44642	4906		
GRAND TOTAL:										

REVISIONS DATE DESCRIPTION DATE DESCRIPTION				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242		SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SUMMARY OF QUANTITIES	SHEET NO. 291	
						ROAD	COUNTY CIP No.			
						RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084			

\$USERS
\$DATES
\$TIMES
\$FILES

SUMMARY OF GRAVITY WALL

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		BEGIN STA.	END STA.			P	F	P	F		
0400 0 11	CONC CLASS NS, GRAVITY WALL (4'H, SCHEME 1)	10027+27.16	10029+00.00	LT	CY	51.6					
		20012+65.01	20014+25.01	RT		44.6					
		20015+65.77	20017+89.64	LT		92.9					
		20034+24.93	20036+89.98	LT		84.8		273.9			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SUMMARY OF QUANTITIES

SHEET NO.
 292

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

SUMMARY OF RAILING						
LOCATION		SIDE	PED/BICYCLE RAILING (ALUMINUM ONLY) (42" TYPE 5)		DESIGN NOTES	CONSTRUCTION REMARKS
BEGIN STA.	END STA.		0515 2315			
			LF			
			P	F		
10027+27.16	10029+00.00	LT	161.2			
20012+65.01	20014+25.01	RT	154.8			
20034+24.93	20036+89.98	LT	265.1			
30021+28.60	30021+40.49	RT	12.0			
30023+93.43	30024+03.33	RT	12.0			
30027+18.53	30027+34.36	RT	16.8			
SUB-TOTAL:			621.7			
TOTAL:			622			

SUMMARY OF TRAFFIC SEPARATORS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL	
		BEGIN STA.	END STA.			P	F	P	F
		0520 70	CONCRETE TRAFFIC SEPARATOR, VARIABLE WIDTH			10017+97.54	10018+12.54	RT	SY
		10019+58.50	10019+76.06	RT	SY	9.65			
		10019+71.71	10019+81.37	LT	SY	5.67			
		10027+91.20	10029+60.11	LT	SY	35.55			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SUMMARY OF QUANTITIES
 SHEET NO. 293

SUMMARY OF CURB & GUTTER

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		BEGIN STA.	END STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
								TYPE	LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E	10016+77.68	10017+17.62	RT		LF	120.8					2567			
		10018+13.45	10018+32.37	RT			137.3								
		10018+72.82	10019+60.61	RT			220.0								
		20014+64.58	20015+34.50	LT			310.3								
		20016+13.03	20016+32.03	RT			74.4								
		20016+13.03	20016+32.03	LT			57.9								
		20016+97.30	20017+40.00	LT			110.1								
		30020+98.52	30022+22.37	RT			282.9								
		30022+83.47	30023+03.33	LT			115.4								
		30023+57.61	30024+44.91	RT			191.7								
		30024+44.91	30025+04.27	RT			59.6								
		30024+44.91	30025+04.27	LT			59.5								
		30025+04.27	30026+59.07	RT			311.4								
		30026+59.07	30027+10.18	RT			52.6								
		30026+59.07	30027+10.18	LT			52.8								
		30027+10.18	30027+69.13	LT			102.2								
		30028+18.28	30029+42.55	RT			111.9								
		30028+18.28	30029+42.55	LT			146.1								
		30056+81.53	30057+02.15	RT			31.0								
		30056+81.53	30057+02.15	LT			19.4								
0520 1 10	Concrete Curb & Gutter, Type F	10000+15.73	10006+28.83	RT		LF	636.0					13393			
		10000+15.73	10006+28.83	LT			622.1								
		10006+28.83	10012+80.00	RT			686.5								
		10006+28.83	10012+80.00	LT			681.2								
		10012+80.00	10015+60.00	RT			291.8								
		10012+80.00	10015+60.00	LT			299.6								
		10015+60.00	10020+20.00	RT			1381.3								
		10015+60.00	10020+20.00	LT			435.8								
		10020+20.00	10023+49.66	RT			329.7								
		10020+20.00	10023+49.66	LT			301.7								
		10023+49.66	10026+65.31	RT			244.2								
		10023+49.66	10026+65.31	LT			290.6								
		20005+35.10	20005+75.30	LT			40.2								
		20010+65.00	20013+64.63	RT			330.1								
		20010+65.00	20013+64.63	LT			302.4								
		20013+64.63	20018+30.57	RT			289.5								
		20013+64.63	20018+30.57	LT			1394.5								
		20018+30.57	20022+90.71	RT			164.0								
		20018+30.57	20022+90.71	LT			461.8								
		20022+90.71	20024+81.92	RT			77.5								
		20022+90.71	20024+81.92	LT			182.4								
		20024+81.92	20031+29.99	RT			107.5								
		20024+81.92	20031+29.99	LT			691.2								
		20033+16.89	20033+99.79	RT			37.8								
		20033+16.89	20033+99.79	LT			81.0								
		20033+99.79	20041+91.22	RT			77.9								
		20033+99.79	20041+91.22	LT			168.1								
		20041+91.22	20042+05.88	RT			11.6								
		20041+91.22	20042+05.88	LT			14.7								
		30004+45.40	30005+69.34	RT			165.3								
30004+45.40	30005+69.34	LT			111.6										

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
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**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SUMMARY OF QUANTITIES

SHEET NO.
 294

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

SUMMARY OF CURB & GUTTER

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS		
		BEGIN STA.	END STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F	
								TYPE	LENGTH	P	F					
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	30006+20.00	30008+22.39	RT		LF	226.0									
		30008+22.39	30011+50.83	RT			368.1									
		30011+50.83	30013+25.28	RT			173.6									
		30021+19.27	30024+76.71	RT			520.4									
		30021+19.27	30024+76.71	LT			440.6									
		30024+76.71	30026+29.03	RT			183.9									
		30024+76.71	30026+29.03	LT			165.3									
		30026+29.03	30027+76.69	RT			195.9									
		30026+29.03	30027+76.69	LT			125.4									
		30027+76.69	30028+51.04	RT			70.4									
		30027+76.69	30028+51.04	LT			91.6									
		0520 2 2	Concrete Curb, Type B	10021+49.26	10022+68.07	RT		LF	118.6					2149		
10021+49.26	10022+68.07			LT			127.1									
10024+07.88	10026+02.74			RT			194.6									
10024+07.88	10026+02.74			LT			203.1									
10027+45.61	10027+89.30			LT			92.7									
20030+67.24	20031+17.27			RT			59.7									
20030+67.24	20031+17.27			LT			45.6									
20032+00.18	20033+22.48			RT			126.3									
20032+00.18	20033+22.48			LT			126.3									
20033+90.51	20034+97.86			RT			111.3									
20033+90.51	20034+97.86			LT			111.3									
20035+78.55	20037+67.77			RT			193.2									
20035+78.55	20037+67.77			LT			193.2									
20039+60.07	20040+57.34			RT			101.3									
20039+60.07	20040+57.34			LT			101.3									
30012+26.47	30013+48.24			RT			157.1									
0520 2 4	Concrete Curb, Type D			10017+37.61	10018+63.35	RT		LF	362.0					2599		
		20015+46.14	20016+63.73	LT			339.8									
		30022+50.28	30023+26.66	RT			240.9									
		30027+25.11	30029+42.55	RT			257.8									
		30027+25.11	30029+42.55	LT			274.1									
		30031+02.36	30032+00.96	RT			72.9									
		30031+02.36	30032+00.96	LT			135.7									
		30034+67.59	30035+19.05	RT			16.1									
		30034+67.59	30035+19.05	LT			94.7									
		30038+45.36	30039+69.06	RT			79.7									
		30038+45.36	30039+69.06	LT			176.7									
		30040+36.92	30041+47.09	RT			68.0									
		30040+36.92	30041+47.09	LT			166.9									
		30043+51.92	30043+72.41	RT			14.3									
		30043+51.92	30043+72.41	LT			32.9									
		30044+65.71	30044+91.58	RT			27.8									
		0520 2 8	Concrete Curb, Type RA	10017+25.27	10018+74.09	RT		LF	422.57					1162		
20015+32.41	20016+81.76			LT			422.57									
30022+47.03	30023+46.53			RT			317.3									

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SUMMARY OF QUANTITIES

SHEET NO.
 295

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

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION		SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
BEGIN STA.	END STA.					0522 1		0522 2		0527 2			
						SY	F	SY	F	SF	F		
12+75.57	18+43.59	RT				533.0							
10000+12.38	10004+73.89	RT				312.8							
10000+38.55	10004+43.44	LT				214.8							
10004+73.89	10007+14.41	RT				148.7							
10004+43.44	10006+26.92	LT				103.0							
10007+14.41	10012+70.10	RT				374.8							
10006+26.92	10010+10.65	LT				169.7							
10012+70.10	10017+91.73	RT				885.7							
10010+10.65	10012+76.68	LT				155.2							
10017+91.73	10021+03.53	RT				739.4							
10012+76.68	10017+06.12	LT				204.1							
10021+03.53	10022+85.71	RT				107.4							
10017+06.12	10022+78.92	LT				365.8							
10022+85.71	10026+12.77	RT				204.3							
10022+78.92	10026+72.32	LT				264.5							
10029+60.00	10030+00.00	RT				48.8							
10026+72.32	10029+60.00	LT				250.4							
20003+25.08	20006+90.07	RT				15.4							
20005+30.10	20005+80.30	LT				16.1							
20010+64.99	20011+60.21	RT				54.3							
20009+00.00	20014+93.09	LT				606.2							
20011+60.21	20014+55.81	RT				163.0							
20014+93.09	20018+90.84	LT				881.9							
20014+55.81	20017+04.07	RT				212.9							
20018+90.84	20022+16.00	LT				314.6							
20017+04.07	20019+92.33	RT				148.3							
20022+16.00	20025+09.50	LT				101.8							
20019+92.33	20022+16.00	RT				47.7							
20025+09.50	20029+31.11	LT				392.7							
20022+16.00	20025+09.50	RT				68.0							
20029+31.11	20033+15.50	LT				370.3							
20025+09.50	20029+31.11	RT				195.0							
20033+15.50	20039+26.52	LT				652.4							
20033+15.50	20035+81.40	RT				93.3							
20039+26.52	20041+94.74	LT				268.4							
20037+43.04	20041+94.75	RT				275.4							
30004+45.76	30007+36.17	RT				225.6							
30005+57.95	30010+50.08	LT				96.2							
30007+36.17	30011+38.17	RT				375.8							
30012+48.53	30014+02.23	LT				85.8							
30011+38.17	30014+71.10	RT				200.7							
30014+02.23	30020+46.12	LT				301.6							
30020+46.12	30026+22.81	RT				807.1							
30020+46.12	30024+69.27	LT				465.5							
30026+22.81	30030+50.96	RT				348.2							
30024+69.27	30028+43.43	LT				340.3							
30030+50.96	30033+85.28	RT				136.5							
SUB-TOTAL :						13343							
TOTAL :						14018		5034		2582			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SUMMARY OF QUANTITIES

SHEET NO.
 296

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

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION		SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
BEGIN STA.	END STA.					0522 1		0522 2		0527 2			
						SY		SY		SF			
		P	F	P	F	P	F						
30033+80.28	30033+85.28	LT				2.8							
30033+85.28	30037+17.74	RT				135.9							
30039+41.11	30039+54.27	LT				20.3							
30037+17.74	30039+71.45	RT				137.3							
30043+77.39	30044+32.41	LT				12.2							
30039+71.45	30042+95.58	RT				136.7							
30042+95.58	30044+57.37	RT				39.2							
30047+01.31	30048+09.51	RT				46.1							
30054+00.19	30055+58.51	RT				56.1							
30054+00.19	30055+58.51	LT				88.7							
10001+24.35	10003+43.39	LT						86.5					
10003+43.39	10006+00.00	LT						68.2					
10003+43.39	10006+00.00	RT						23.5					
10006+00.00	10010+00.00	LT						195.6					
10006+91.41	10007+19.41	RT						51.7					
10010+00.00	10013+00.00	LT						118.3					
10010+00.00	10013+00.00	RT						52.4					
10013+00.00	10016+00.00	LT						213.8					
10016+00.00	10020+02.10	LT						155.7					
10016+00.00	10020+02.10	RT						431.7					
10020+02.10	10023+15.73	RT						48.9					
10022+78.96	10024+18.71	LT						56.8					
10025+95.89	10027+23.15	RT						15.5					
10025+95.89	10027+23.15	LT						99.2					
10029+49.07	10030+09.88	RT						14.9					
10029+49.07	10030+09.88	LT						14.8					
20002+72.14	20003+44.49	RT/LT						51.3					
20005+00.00	20006+00.00	LT						29.3					
20011+60.00	20012+02.00	RT						8.2					
20014+40.00	20017+61.45	RT/LT						507.2					
20017+61.45	20019+47.66	RT						92.2					
20017+61.45	20019+47.66	LT						31.2					
20019+47.66	20021+00.00	RT						69.6					
20021+00.00	20023+26.79	RT						55.7					
20021+00.00	20023+26.79	LT						105.4					
20023+26.79	20025+09.52	RT						35.2					
20023+26.79	20025+09.52	LT						54.6					
20025+09.52	20027+00.00	RT						34.9					
20025+09.52	20027+00.00	LT						53.1					
20027+00.00	20028+08.98	RT						26.4					
20027+00.00	20028+08.98	LT						69.2					
20029+00.00	20029+83.63	LT						56.0					
20033+15.52	20033+95.88	RT						20.4					
20033+15.52	20033+95.88	LT						47.4					
20035+00.00	20035+57.66	RT						50.0					
20037+83.16	20039+48.07	RT						39.1					
20037+83.16	20039+48.07	LT						23.6					
20041+44.91	20044+78.60	LT						29.7					
SUB-TOTAL :						675		3137					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SUMMARY OF QUANTITIES

SHEET NO.
297

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

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION		SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
BEGIN STA.	END STA.					0522 1		0522 2		0527 2			
						SY		SY		SF			
		P	F	P	F	P	F						
30004+48.44	30005+58.34	RT/LT						267.3					
30007+14.71	30009+11.58	RT						110.6					
30011+38.00	30011+92.07	RT						38.1					
30012+19.93	30013+59.57	RT/LT						6.1					
30014+00.00	30014+42.88	LT						7.4					
30016+53.25	30019+39.41	LT						193.9					
30020+36.13	30024+26.86	RT/LT						493.4					
30024+26.86	30025+18.50	LT						22.5					
30026+21.34	30026+57.49	RT						17.6					
30027+17.89	30028+40.14	RT/LT						221.1					
30030+51.81	30030+94.31	RT						8.3					
30031+96.83	30034+12.33	RT/LT						208.7					
30035+67.24	30039+16.97	RT						89.9					
30039+62.94	30043+34.35	RT						123.3					
30043+79.08	30044+62.42	RT						24.1					
30043+79.08	30044+62.42	LT						10.7					
30047+39.91	30047+84.64	RT						45.4					
30055+55.56	30055+67.54	RT/LT						8.3					
10003+33	10003+39	RT/LT							24.0				
10006+37.76	10007+08.40	RT/LT							57.7				
10012+70.06	10013+42.11	RT/LT							57.9				
10016+69.55	10019+24.63	RT							334.1				
10019+57.23	10020+00.00	LT							56.2				
10022+91.41	10024+05.64	LT							108.9				
10026+07.76	10026+52.45	RT/LT							44.7				
10029+64.10	10030+00.00	RT/LT							35.5				
20002+80.00	20003+40.48	RT/LT							44.7				
20011+64.29	20012+96.13	RT							17.8				
20014+76.78	20017+38.21	RT/LT							389.3				
20022+41.41	20023+10.32	RT/LT							73.7				
20024+29.37	20024+93.81	LT							50.9				
20029+16.96	20029+69.08	LT							52.6				
20033+29.91	20033+84.82	LT							50.6				
30004+54.07	30005+43.15	RT/LT							157.1				
30008+19.50	30008+45.91	RT							40.7				
30011+47.87	30011+77.74	RT							42.8				
30014+05.61	30014+69.26	RT/LT							36.0				
30021+80.00	30022+06.16	RT							97.0				
30022+64.27	30023+18.13	LT							97.3				
30023+79.05	30024+07.70	RT/LT							96.9				
30024+65.58	30025+11.47	LT							49.1				
30026+25.37	30026+53.51	RT							48.8				
30027+36.03	30028+40.10	RT/LT							282.6				
30030+54.81	30030+90.31	RT							20.0				
30033+79.67	30034+09.17	RT/LT							40.0				
30036+78.21	30037+14.74	RT							20.0				
30039+48.43	30039+99.17	RT/LT							68.0				
30042+98.86	30044+22.53	RT/LT							64.0				
30055+59.06	30055+67.60	RT/LT							23.4				
SUB-TOTAL :								1897		2582			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD COUNTY CIP No.
 RAYMOND AVE.,NORTH 01907084
 ST.,PALM SPRINGS DR.

SUMMARY OF QUANTITIES

SHEET NO.
 298


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

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.						AREA (AC)	P	F	P	F		
0110 1 1	CLEARING AND GRUBBING	10000+25 to 10029+77	LT/RT				AC		17.259		32.083			
0110 1 1	CLEARING AND GRUBBING	20010+65 to 20042+28	LT/RT				AC		8.323					
0110 1 1	CLEARING AND GRUBBING	30005+40 to 30013+46	LT/RT				AC		6.501					
0110 4 10	REMOVAL OF EXISTING CONCRETE	10000+25 to 10029+77	LT/RT				SY		3665.4		14510			
0110 4 10	REMOVAL OF EXISTING CONCRETE	20010+65 to 20042+28	LT/RT				SY		4798.3					
0110 4 10	REMOVAL OF EXISTING CONCRETE	30005+40 to 30013+46	LT/RT				SY		6045.8					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SUMMARY OF QUANTITIES

SHEET NO.
300

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

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL							MOWING						DESIGN NOTES	CONSTRUCTION REMARKS				
					0107 1							0107 2											
	AREA ID				L	W	CYCLES	AREA		AREA ID	L	W	CYCLES	AREA									
								AC/CYCLE	TOTAL (AC) P F					AC/CYCLE	TOTAL (AC) P F								
	10000+25 to 10029+77	LT/RT	390	30					13	4.87	63.31							27	2.68	72.36			
	20010+65 to 20042+28	LT/RT	390	30					13	8.32	108.16							27	7.00	189.00			
	30005+40 to 30013+46	LT/RT	390	30					13	6.50	84.50							27	2.67	72.09			
	40000+00 to 40007+25	LT/RT	390	30					13	12.39	161.07							27	3.75	101.25			
				30																			
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SUB-TOTAL: 417.1										SUB-TOTAL: 434.7													
TOTAL: 417										TOTAL: 435													

REVISIONS				TYLER J. VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		<h2 style="margin: 0;">SUMMARY OF QUANTITIES</h2>	SHEET NO. 301
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

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

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION		SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
BEGIN STA.	END STA.			0104 10 3		0104 18			
				LF		EA			
			P	F	P	F			
12+50.00	18+00.00	RT/LT		543.2		12			
10000+00.00	10030+20.00	RT/LT		6384.0		15			
20002+40.00	20042+40.00	RT/LT		7622.3		43			
30004+40.00	30055+70.00	RT/LT		7691.3		8			
40000+00.00	40007+60.00	RT/LT		1885.0					
SUB - TOTAL :				24125.72		78			
TOTAL :				24126		78			

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

DATE		DESCRIPTION		REVISIONS	

TYLER VALILA, P.E. LICENSE NO. 90792 HR 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SUMMARY OF QUANTITIES SHEET NO. 302
	ROAD RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	COUNTY CIP No. 01907084	

SUMMARY OF LUMP SUM ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	MOBILIZATION	1			
0101 2	MAINTENANCE OF TRAFFIC	1			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE No. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
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 FAX 407.420.4242



**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

SUMMARY OF QUANTITIES

SHEET NO.
303

TEMPORARY TRAFFIC CONTROL GENERAL NOTES

1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION AND REVISIONS) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (LATEST EDITION AND REVISIONS).
2. CONTRACTOR SHALL PAY FOR AND SUBMIT A MAINTENANCE OF TRAFFIC PLAN (INCLUDING REQUIRED REVISIONS) TO THE SEMINOLE COUNTY PUBLIC WORKS THAT IS DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. FOR REVIEW AND APPROVAL PRIOR TO START OF WORK. THE PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND FDOT DESIGN STANDARDS (LATEST EDITIONS AND REVISIONS). ANY CHANGES MADE TO THE TRAFFIC CONTROL PLAN BY THE CONTRACTOR SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE TRAFFIC CONTROL MANAGER PRIOR TO IMPLEMENTATION.
3. THE DESIGN OF THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL SIGNS, BARRIERS, CHANNELIZING DEVICES, PAVEMENT MARKINGS, ETC. FOR THE SAFE PASSAGE OF PEDESTRIANS, BICYCLISTS, AND VEHICULAR TRAFFIC THROUGH THE PROJECT AND FOR THE PROTECTION OF THE WORKERS.
4. LOCAL RESIDENTIAL/BUSINESS ACCESS SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE RESIDENT/BUSINESS AFFECTED BY CONSTRUCTION ACTIVITIES ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE NOTIFICATION TO THE TRAFFIC CONTROL MANAGER PRIOR TO DISTRIBUTION.
5. THE CONTRACTOR SHALL NOTIFY THE SEMINOLE COUNTY SCHOOL BOARD, SAFETY MANAGER (407) 320-7524 ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION TO COORDINATE SCHOOL BUS RE-ROUTING.
6. THE NUMBER OF DEVICES SHOWN ON THESE PLANS IS FOR ILLUSTRATIVE PURPOSES. ADDITIONAL DEVICES MAY BE REQUIRED TO PROPERLY PROTECT THE WORKERS AND WORK ZONE FROM VEHICULAR TRAFFIC.
7. TEMPORARY MARKINGS REQUIRED ON FINAL SURFACES OR SURFACES NOT BEING REPAVED SHALL BE INSTALLED USING 3M BRAND STAMARK REMOVABLE WET REFLECTIVE TEMPORARY TAPE OR APPROVED EQUAL. THE USE OF "FOIL BACK" TYPES OF TEMPORARY TAPE IS NOT PERMITTED.
8. BLACK REMOVABLE PAVEMENT MARKING TAPE IS THE ONLY APPROVED MATERIAL FOR COVERING OR "BLACKING OUT" OF EXISTING PAVEMENT MARKINGS ON FINAL ROADWAY SURFACES OR SURFACES NOT BEING REPAVED. GRINDING OF EXISTING PAVEMENT MARKINGS MAY BE PERMITTED ON ROADWAY SURFACES BEING REPAVED. UNDER NO CIRCUMSTANCES SHALL PAINT BE USED TO COVER EXISTING PAVEMENT MARKINGS.
9. PAINT PRODUCTS AND RETRO-REFLECTIVE PAVEMENT MARKERS WILL BE CONSIDERED TEMPORARY PAVEMENT MARKING MATERIALS ON SURFACES THAT ARE TO BE MILLED AND RESURFACED.
10. EXISTING PAVEMENT MARKINGS, WHICH ARE TO BE OBLITERATED, SHALL BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REINSTATING VEHICULAR TRAFFIC.
11. RETRO-REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ALONG WITH ALL OTHER PAVEMENT MARKINGS AND PER FDOT SPECIFICATIONS.
12. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE NEW OR LIKE NEW CONDITION. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE INDICATED.
13. CHANNELIZING DRUMS SHALL BE USED ON NEWLY PAVED ROADWAYS.
14. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) IF REQUIRED SHALL BE IN PLACE A MINIMUM OF 2 WEEKS PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL.
15. BARRIERS MAY BE REQUIRED TO PROTECT DROP OFFS OR ABOVE GROUND HAZARDS. ALL BARRIERS SHALL BE INSTALLED PER FDOT SPECIFICATIONS.
16. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES, OR MATERIAL SHALL BE PARKED OR STORED WITHIN THE CLEAR ZONE OF A ROADWAY OPEN TO VEHICULAR TRAFFIC.
17. EXISTING REGULATORY AND WARNING SIGNS ARE TO BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED.
18. PEDESTRIAN CONTROL SHALL BE MAINTAINED ON ONE SIDE OF THE ROAD AT ALL TIMES. IF UNABLE TO DO SO, THE CONTRACTOR SHALL PROVIDE TEMPORARY WALKWAYS, BOARDWALKS, AND/OR TEMPORARY CONCRETE SIDEWALKS.
19. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL SUPERVISOR (TCS) WHO IS RESPONSIBLE FOR INITIATING, INSTALLING, AND MAINTAINING ALL TRAFFIC CONTROL DEVICES.
20. THE TCS SHALL BE AVAILABLE ON A 24-HOUR PER DAY BASIS, PARTICIPATE IN ALL CHANGES TO TRAFFIC CONTROL, AND REVIEW THE PROJECT ON A DAY-TO-DAY BASIS.
21. THE TCS SHALL BE PRESENT DURING THE INITIAL SETUP OF THE TRAFFIC CONTROL PLAN AND ALL SUBSEQUENT PHASES OR CHANGES TO THE TRAFFIC CONTROL.
22. THE TCS SHALL IMMEDIATELY CORRECT ALL DEFICIENCIES.

DRIVEWAY CONSTRUCTION AND ACCESS

23. DURING DRIVEWAY CONSTRUCTION, MAINTAIN DRIVEWAY ACCESS AT ALL TIMES BY PROVIDING ON-STREET PARKING, ADJACENT LOT PARKING, OR TEMPORARY DRIVEWAY.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

24. PCMS SHOULD BE PLACED APPROX. 500 TO 1000 FEET IN ADVANCE OF THE WORK ZONE CONFLICTS OR 0.5 TO 2 MILES IN ADVANCE OF COMPLEX TRAFFIC CONTROL SCHEMES WHICH REQUIRE NEW AND/OR UNUSUAL TRAFFIC MANEUVERS (INDEX 102-600).

MINIMUM 14 DAYS PRIOR TO WORK START:

MESSAGE 1:	MESSAGE 2:
ROAD	MONTH
WORK	DAY
BEGINS	YEAR

DURING MILLING AND RESURFACING/STRIPING OPERATIONS:

NIGHTLY	XX/XX/XX
LANE	TO
CLOSURES	XX/XX/XX






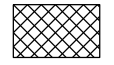







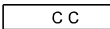
SIGNING AND PAVEMENT MARKINGS

25. ARROWS ON THE TCP DENOTE THE DIRECTION OF TRAFFIC AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.




DROP-OFFS

26. FOR DROP OFFS, ATTENTION IS DIRECTED TO DESIGN STANDARD INDEX 102 SERIES. USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.
27. ESTABLISH A WORK SCHEDULE TO ENSURE ALL DROP-OFF CONDITIONS AT THE END OF THE WORK PERIOD ARE SHIELDED OR ARE IN CONFORMANCE WITH THE DESIGN STANDARD INDEX 102-600 SERIES AT ALL TIMES.

LEGEND FOR TRAFFIC CONTROL PLANS

	PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE		WORK ZONE SIGN
	CHANNELIZING DEVICE		TEMP. BARRIER WALL
	WORK ZONE		TEMP. PAVEMENT
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC		TEMP. PAVEMENT PREVIOUSLY CONSTRUCTED
	SIGN		ADVANCED WARNING ARROW PANEL
	TYPE III BARRICADE		
	PORTABLE CHANGEABLE MESSAGE SIGN		
	PEDESTRIAN PATH		
	CC CRASH CUSHION		

LEGEND FOR TRAFFIC CONTROL TYPICAL SECTIONS AND CROSS SECTIONS

	TRAFFIC CONTROL DEVICE
	TEMPORARY BARRIER WALL (LOW PROFILE)
	PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE (PLCD)

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		TEMPORARY TRAFFIC CONTROL GENERAL NOTES	SHEET NO. 305
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

TRAFFIC CONTROL PHASING NOTES

PHASE 1: RAYMOND AVENUE

STAGE 0:

1. CONSTRUCT BERNARD AVENUE EXTENSION FROM BARTON STREET TO WILFORD AVENUE TO PROVIDE FUTURE ENTRANCE/EXIT ACCESS AND TRAFFIC RELIEF FOR FUTURE STAGES.
2. EXTEND EXISTING SIDEWALK ALONG RAYMOND AVENUE WITH TEMPORARY PAVEMENT FOR TEMPORARY PEDESTRIAN WALKWAY PER STANDARD INDEX 100-660 FOR UPCOMING PHASE 1 STAGE 1.

STAGE 1:

THE INTENT OF STAGE 1 IS TO CONSTRUCT PROPOSED WORK ON THE EAST SIDE WHILE TRAFFIC IS SHIFTED TO THE WEST WITHIN EXISTING RAYMOND AVENUE PAVEMENT. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AT ALL TIMES.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-604, AND 102-660.
2. INSTALL EROSION CONTROL DEVICES.
3. CONSTRUCT DRAINAGE/PIPING ACROSS RAYMOND AVENUE NORTH OF BARTON STREET PRIOR TO THE CLOSURE OF BARTON STREET BETWEEN BERNARD AVENUE AND RAYMOND AVENUE. USE PROVIDED DETOUR 1 IF NEEDED TO FACILITATE DRAINAGE CONSTRUCTION ACTIVITIES DURING NON-PEAK HOURS.
4. WHEN ROUNDABOUT CONSTRUCTION IS READY TO COMMENCE, IMPLEMENT DETOUR 2 FOR LONG TERM ROAD CLOSURES OF STANLEY STREET, BARTON STREET, AND BERNARD AVENUE.
5. CONSTRUCT/INSTALL TEMPORARY PEDESTRIAN WALKWAY AS NEEDED FOR PARKING LANE CONSTRUCTION AREAS TO MAINTAIN PEDESTRIAN ACCESS ON RAYMOND AVENUE.
6. CONSTRUCT TEMPORARY PEDESTRIAN WALKWAY ADJACENT TO ROUNDABOUT WORKZONE USING PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES, AND LOW PROFILE BARRIERS PER STANDARD INDEX 102-120.
7. CONSTRUCT PARKING LANES, STRUCTURAL COURSE, SHOULDER, SIDEWALK, DRAINAGE STRUCTURES, DRIVEWAY CONNECTIONS, AND SLOPES.

STAGE 2:

THE INTENT OF STAGE 2 IS TO OPEN THE NEWLY CONSTRUCTED SIDEWALK AROUND THE ROUNDABOUT AND ALONGSIDE THE NORTHBOUND LANE WHILE CLOSING EXISTING SIDEWALK ALONGSIDE THE SOUTHBOUND LANE FOR CONSTRUCTION.

1. OPEN NEWLY CONSTRUCTED SIDEWALK AROUND ROUNDABOUT AND ALONGSIDE NORTHBOUND RAYMOND AVE.
2. REMOVE TEMPORARY PEDESTRIAN WALKWAY ALONG NORTHBOUND LANE OF RAYMOND AVE, AND EXTEND CONSTRUCTION LIMITS USING TRAFFIC CONTROL DEVICES (MAINTAIN LOW PROFILE BARRIER AS NEEDED FOR REMAINING ROUNDABOUT CONSTRUCTION ACTIVITIES).
3. CONSTRUCT CUL-DE-SAC ACCESS TO ROUNDABOUT FOR FUTURE STAGE.
4. CLOSE EXISTING SIDEWALK ALONG SOUTHBOUND RAYMOND AVENUE AND IMPLEMENT PEDESTRIAN DETOUR.
5. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ACTIVITIES ALONG SOUTHBOUND RAYMOND AVENUE (NORTH OF BARTON STREET).
6. CONSTRUCT SHOULDER, SIDEWALK, DRAINAGE STRUCTURES, DRIVEWAY CONNECTIONS, AND SLOPES NORTH OF BARTON STREET.

STAGE 3 (SHORT TERM DETOUR):

THE INTENT OF STAGE 3 IS A SHORT TERM DETOUR TO SHIFT TRAFFIC TO THE EAST, OPEN PARTIAL ACCESS TO THE ROUNDABOUT, AND ACT AS A TRANSITION STEP FOR STAGE 4. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AT ALL TIMES.

1. INSTALL TEMPORARY AND FINAL SIGNAGE NECESSARY FOR PARTIAL ACCESS TO ROUNDABOUT.
2. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-603, 102-604, AND 102-660.
3. INSTALL DETOUR SIGNAGE, AND DETOUR SOUTHBOUND RAYMOND AVENUE TRAFFIC ONTO HOMER AVENUE.
4. OPEN CUL-DE-SAC ACCESS TO ROUNDABOUT.
5. CONSTRUCT CURBING AND CONNECTIONS FROM RAYMOND AVENUE TO PREVIOUSLY CONSTRUCTED ROUNDABOUT (DURING OFF-PEAK HOURS).

STAGE 4:

NORTH OF BARTON STREET: CONSTRUCT THE MEDIAN AND MILL AND RESURFACE RAYMOND AVENUE USING FLAGGING OPERATIONS. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AT ALL TIMES.

SOUTH OF ADAMS STREET: CONSTRUCT PROPOSED WORK ON THE WEST SIDE OF RAYMOND AVENUE WHILE TRAFFIC IS DETOURED.

1. OPEN ROUNDABOUT ACCESS TO BOTH NORTHBOUND AND SOUTHBOUND RAYMOND AVENUE.
2. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEX 102-600 AND 102-603.
3. CONSTRUCT MEDIAN AND MEDIAN ISLANDS WHERE APPLICABLE (NORTH OF BARTON STREET).
4. CONSTRUCT SHOULDER, SIDEWALK, DRAINAGE STRUCTURES, DRIVEWAY CONNECTIONS, AND SLOPES.
5. MILL EXISTING PAVEMENT AND CONSTRUCT FRICTION COURSE ACROSS NEWLY CONSTRUCTED AREAS.
6. INSTALL PERMANENT PAVEMENT MARKINGS IN FINAL LOCATIONS.

PHASE 2: NORTH STREET

STAGE 1:

THE INTENT OF STAGE 1 IS TO CONSTRUCT PROPOSED WORK ON THE SOUTH SIDE WHILE TRAFFIC IS SHIFTED TO THE NORTH WITHIN EXISTING PAVEMENT. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH EASTBOUND AND WESTBOUND TRAFFIC AT ALL TIMES.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-604, AND 102-660.
2. INSTALL EROSION CONTROL DEVICES.
3. CONSTRUCT TEMPORARY CROSSWALK AT STATION 20022+40.
4. IMPLEMENT PEDESTRIAN DETOUR ROUTING PEDESTRIANS TO NORTHERN EXISTING SIDEWALK.
5. CONSTRUCT PROPOSED SIDEWALK, CURBING, DRIVEWAYS, AND SLOPES WEST THEN EAST OF ROUNDABOUT.

STAGE 2:

THE INTENT OF STAGE 2 IS TO CONSTRUCT PROPOSED WORK ON THE NORTH SIDE WHILE TRAFFIC IS SHIFTED TO THE SOUTH WITHIN EXISTING NORTH STREET PAVEMENT. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH EASTBOUND AND WESTBOUND TRAFFIC AT ALL TIMES.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-604, AND 102-660.
3. INSTALL ROAD CLOSURE TEMPORARY TRAFFIC CONTROL DEVICES ON NEBRASKA AVENUE AND NELSON AVENUE.
4. IMPLEMENT PEDESTRIAN DETOUR TO THE SOUTHERN REPAIRED/CONSTRUCTED SIDEWALK.
5. CONSTRUCT STRUCTURAL COURSE, SHOULDER, CURBING, SIDEWALK, DRAINAGE STRUCTURES, AND SLOPES OF ROUNDABOUT.

STAGE 3:


THE INTENT OF STAGE 3 IS TO CLOSE NORTH STREET BETWEEN HILLTOP PLACE AND VIRGINIA AVENUE TO EXTEND ROUNDABOUT CONSTRUCTION FOR THE WEST SEGMENT OF NORTH STREET. ALSO, THE NEWLY CONSTRUCTED SIDEWALK AROUND THE NORTH SIDE OF ROUNDABOUT WILL BE OPENED FOR PEDESTRIANS SO THAT THE EXISTING SIDEWALK ALONG EB NORTH STREET CAN BE CLOSED FOR CONSTRUCTION. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH EASTBOUND AND WESTBOUND TRAFFIC AT ALL TIMES.

1. INSTALL ADVANCED WARNING PCMS FOR UPCOMING CLOSURE OF WEST NORTH STREET.
2. IMPLEMENT PEDESTRIAN DETOUR FOR THE NEWLY CONSTRUCTED SIDEWALK AROUND ROUNDABOUT AND ALONG NORTH HALF OF NORTH STREET; USE PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES ADJACENT TO ANY REMAINING WORKZONES AROUND ROUNDABOUT.
3. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEX 102-600 AND 102-603.
4. IMPLEMENT PROVIDED DETOUR FOR PHASE 2 STAGE 3 NORTH STREET CLOSURE.
5. CLOSE NORTH STREET BETWEEN HILLTOP PLACE AND VIRGINIA AVENUE (MAINTAIN DRIVEWAY ACCESS FOR 1877 NORTH STREET FROM EAST NORTH STREET AND VIRGINIA AVENUE INTERSECTION).
6. CONSTRUCT SHOULDER, SIDEWALK, CURBING, DRAINAGE STRUCTURES, AND SLOPES FROM ROUNDABOUT.

STAGE 4:

THE INTENT OF STAGE 4 IS TO PARTIALLY OPEN THE ROUNDABOUT TO WESTBOUND TRAFFIC AND ACCESS, AS WELL AS IMPLEMENT THE PROVIDED DETOUR FOR THE CLOSURE OF THE VIRGINIA AVENUE AND NORTH STREET INTERSECTION.

1. INSTALL ADVANCED WARNING PCMS FOR UPCOMING INTERSECTION CLOSURE OF VIRGINIA AVENUE AND NORTH STREET.
2. INSTALL ADVANCED WARNING PCMS FOR UPCOMING WESTBOUND NORTH STREET OPENING AND TRAFFIC PATTERN CHANGE.
3. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEX 102-600 AND 102-603.
4. IMPLEMENT PROVIDED DETOUR FOR PHASE 2 STAGE 4 INTERSECTION CLOSURE.
5. CLOSE EASTBOUND BETWEEN HILLTOP PLACE AND VIRGINIA AVENUE (MAINTAIN DRIVEWAY ACCESS FOR 1877 NORTH STREET FROM WEST SEGMENT OF NORTH STREET).
6. CONSTRUCT ALL REMAINING SHOULDER, SIDEWALK, CURBING, MEDIANS, AND DRAINAGE STRUCTURES.
7. USE FLAGGING OPERATIONS FOR ANY REMAINING MILLING AND RESURFACING ALONG NORTH STREET CORRIDOR.
8. INSTALL PERMANENT PAVEMENT MARKINGS IN FINAL LOCATIONS.

REVISIONS				TYLER VALILA, P.E.  LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		TEMPORARY TRAFFIC CONTROL GENERAL NOTES	SHEET NO. 306
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

PHASE 3: PALM SPRINGS DRIVE

STAGE 1 STEP 1:

THE INTENT OF STAGE 1 STEP 1 IS TO CONSTRUCT PROPOSED WORK ON THE WEST SIDE WHILE TRAFFIC IS SHIFTED TO THE EAST WITHIN PALM SPRINGS AVENUE EXISTING PAVEMENT UP TO STATION 30014+50. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AT ALL TIMES.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-603, 102-604, AND 102-660.
2. INSTALL EROSION CONTROL DEVICES AS NEEDED.
3. IMPLEMENT PEDESTRIAN DETOUR ROUTING PEDESTRIANS TO THE EAST EXISTING SIDEWALK; REFER TO PHASE 3 STAGE 1 STEP 1 PEDESTRIAN DETOUR.
4. CONSTRUCT/REPAIR PROPOSED CURBING AND SIDEWALK SECTIONS.
5. INSTALL PAVERS BETWEEN STATIONS 30012+20 AND 30013+60.

STAGE 1 STEP 2:

THE INTENT OF STAGE 2 IS TO IMPLEMENT PEDESTRIAN DETOUR TO THE REPAIRED SIDEWALK ALONG SOUTHBOUND PALM SPRINGS DRIVE, THEN CONSTRUCT PROPOSED CURBING, DRIVEWAYS, AND SIDEWALK ALONG NORTHBOUND PALM SPRINGS DRIVE WHILE TRAFFIC IS DETOURED. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AT ALL TIMES.

1. IMPLEMENT PEDESTRIAN DETOUR TO NEWLY REPAIRED SIDEWALK ALONG THE EAST OF PALM SPRINGS DRIVE.
2. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-603, 102-604, AND 102-660 FOR CONSTRUCTION ALONG NORTHBOUND PALM SPRINGS DRIVE.
4. IMPLEMENT PALM SPRINGS DRIVE DETOUR 1 FOR CONSTRUCTION OF CURBING, DRIVEWAYS, AND SIDEWALK BETWEEN NORTH STREET AND ARDEN STREET.
5. IMPLEMENT PALM SPRINGS DRIVE DETOUR 2 FOR CONSTRUCTION OF CURBING, DRIVEWAYS, AND SIDEWALK BETWEEN ARDEN STREET AND HOBSON STREET.
6. USE FLAGGER OPERATIONS AS NEEDED FOR PAVERS INSTALLATION AT STA. 30012+20.

STAGE 1 STEP 3:

THE INTENT OF STAGE 1 STEP 3 IS TO CONSTRUCT MEDIAN AND ISLES IN THE CENTER OF PALM SPRINGS DRIVE, THEN MILL AND RESURFACE PALM SPRINGS DRIVE UP TO STATION 30012+20.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-603, 102-604, AND 102-660.
2. CONSTRUCT MEDIAN WHERE APPLICABLE AND COMPLETE PAVERS INSTALLATION ALONG MEDIAN, USE FLAGGING OPERATIONS AS NEEDED.
3. USE DETOUR AND FLAGGING OPERATIONS FOR MILLING AND RESURFACING OF EXISTING PAVEMENT.
4. INSTALL PERMANENT PAVEMENT MARKINGS IN FINAL LOCATIONS.

STAGE 2 (ROUNDAABOUT)

STAGE 2 STEP 1:

THE INTENT OF STAGE 1 IS TO CONSTRUCT PROPOSED WORK ON THE EAST SIDE WHILE TRAFFIC IS SHIFTED TO THE WEST WITHIN PALM SPRINGS AVENUE EXISTING PAVEMENT. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AT ALL TIMES.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-603, 102-604, AND 102-660.
2. INSTALL EROSION CONTROL DEVICES.
3. INSTALL ROAD CLOSURE TEMPORARY TRAFFIC CONTROL DEVICES ON LAKELAND AVENUE AND BARTON STREET.
4. IMPLEMENT PROVIDED LOCAL DETOURS FOR ACCESS CLOSURES.
5. IMPLEMENT PEDESTRIAN DETOUR TO THE WEST EXISTING SIDEWALK.
6. CONSTRUCT SHOULDER, SIDEWALK, DRAINAGE STRUCTURES, DRIVEWAY CONNECTIONS, AND SLOPES OF ROUNDAABOUT.
7. CONSTRUCT ANY CURBING ON PALM SPRINGS DRIVE APPROACHING ROUNDAABOUT WORKZONE DURING OFF-PEAK HOURS USING FLAGGING OPERATIONS.

STAGE 2 STEP 2:

THE INTENT OF STAGE 2 IS TO IMPLEMENT PEDESTRIAN DETOUR ALONG NORTHBOUND PALM SPRINGS DRIVE, PARTIALLY OPEN NORTHBOUND ROUNDAABOUT TRAFFIC AND SIDESTREET ACCESS; AND CONSTRUCT AS MUCH MEDIAN AND CURBING AS CENTER WORKZONE PERMITS; WHILE MAINTAINING MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC.

1. IMPLEMENT PEDESTRIAN DETOUR TO NEWLY CONSTRUCTED SIDEWALK ALONG NORTHBOUND PALM SPRINGS DRIVE.
2. IMPLEMENT ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT STANDARDS.
3. INSTALL TEMPORARY STRIPING FOR EXISTING NORTHBOUND PALM SPRINGS DRIVE ONTO NEWLY CONSTRUCTED NORTHBOUND SIDE ROUNDAABOUT, THEN BACK TO EXISTING PALM SPRINGS DRIVE.
4. OPEN SIDESTREET ACCESS FROM LAKELAND AVENUE AND BARTON STREET TO NEWLY CONSTRUCTED NORTHBOUND PALM SPRINGS DRIVE.
5. IMPLEMENT PALM SPRINGS DRIVE PHASE 3 STAGE 2 STEP 2 DETOUR 1 TO RESTRICT TURNING MOVEMENTS THRU MEDIAN WORKZONE.
6. IMPLEMENT WORKZONE TO CONSTRUCT AS MUCH MEDIAN AND CURBING AS CENTER WORKZONE PERMITS.

STAGE 2 STEP 3:

THE INTENT OF STEP 3 IS THE COMPLETE CLOSURE OF SOUTHBOUND PALM SPRINGS DRIVE FOR AS SHORT OF A DURATION AS POSSIBLE TO COMPLETE ALL REMAINING CONSTRUCTION ACTIVITIES.

1. IMPLEMENT ADVANCED WARNING PCMS OF UPCOMING COMPLETE SOUTHBOUND CLOSURE OF PALM SPRINGS DRIVE.
2. IMPLEMENT PROVIDED PALM SPRINGS DRIVE SOUTHBOUND AND ACCESS DETOUR.
3. CONSTRUCT ALL REMAINING CURBING, DRAINAGE STRUCTURES, AND SIDESTREET ACCESS ALONG SOUTHBOUND PALM SPRINGS DRIVE.
4. MILL EXISTING PAVEMENT AND CONSTRUCT FRICTION COURSE ACROSS NEWLY CONSTRUCTED AREAS.
5. INSTALL PERMANENT PAVEMENT MARKINGS IN FINAL LOCATIONS.

PHASE 3: PALM SPRINGS DRIVE (CONTINUED)

STAGE 3 STEP 1:

DETOUR PEDESTRIAN TRAFFIC TO THE EXISTING SIDEWALK ALONG SOUTHBOUND PALM SPRINGS DRIVE, AND CONSTRUCT PROPOSED SIDEWALK AND PARTIAL DRIVEWAYS ALONG NORTHBOUND PALM SPRINGS DRIVE.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, AND 102-602 WHEN WORKING ADJACENT TO ROADWAY.
2. IMPLEMENT PEDESTRIAN DETOUR SIGNAGE WHEN APPLICABLE. PROVIDE TEMPORARY MISC. ASPHALT PAD, TEMPORARY CROSSWALK MARKINGS, AND MID-BLOCK CROSSWALK SIGNAGE WITH LIGHTED BEACONS FOR SIDEWALK CLOSURES, AND/OR WHEN TEMPORARY WALKWAY IS IMPRACTICAL.
3. FOR CURB RAMP AND DRIVEWAY CONSTRUCTION USE STANDARD 102-602.

STAGE 3 STEP 2:

THE INTENT OF STEP 2 IS TO CONSTRUCT PROPOSED WORK ON THE WEST SIDE OF PALM SPRINGS DRIVE WHILE TRAFFIC IS SHIFTED TO THE EAST WITHIN EXISTING PALM SPRINGS DRIVE PAVEMENT. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AT ALL TIMES.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, AND 102-604.
2. IMPLEMENT PEDESTRIAN DETOUR ALONG NEWLY CONSTRUCTED NORTHBOUND SIDEWALK .
3. CONSTRUCT WIDENING, DRAINAGE STRUCTURES, AND SLOPES FOR EXPANDED SECTIONS OF PALM SPRINGS DRIVE.
4. REMOVE EXISTING SOUTHBOUND SIDEWALK WHERE APPLICABLE.

STAGE 3 STEP 3

THE INTENT OF STAGE 3 IS TO PERFORM ALL REMAINING CONSTRUCTION ACTIVITIES ALONG SOUTHBOUND PALM SPRINGS DRIVE WHILE SOUTHBOUND TRAFFIC IS DETOURED.

1. IMPLEMENT PHASE 3 STAGE 3 STEP 3 DETOUR 1 FOR CONSTRUCTION BETWEEN NOBEL STREET AND BOYER STREET.
2. IMPLEMENT PHASE 3 STAGE 3 STEP 3 DETOUR 2 FOR CONSTRUCTION BETWEEN MARVIN STREET AND NOBEL STREET.
3. IMPLEMENT PHASE 3 STAGE 3 STEP 3 DETOUR 3 FOR CONSTRUCTION BETWEEN ROBERT STREET AND MARVIN STREET.
4. IMPLEMENT PHASE 3 STAGE 3 STEP 3 DETOUR 4 FOR CONSTRUCTION BETWEEN ROBERT STREET AND ROXBORO ROAD.
5. IMPLEMENT PHASE 3 STAGE 3 STEP 3 DETOUR 5 FOR CONSTRUCTION OF EACH INDIVIDUAL SEGMENT BETWEEN ROXBORO ROAD AND WAVERLY WAY.
6. PHASE 3 STAGE 3 STEP 3 DETOUR 5 SEGMENT 1 IS TO BE IMPLEMENTED FOR CONSTRUCTION BETWEEN PEARL STREET AND ROXBORO ROAD.
7. PHASE 3 STAGE 3 STEP 3 DETOUR 5 SEGMENT 2 IS TO BE IMPLEMENTED FOR CONSTRUCTION BETWEEN BANKS STREET AND PEARL STREET.
8. PHASE 3 STAGE 3 STEP 3 DETOUR 5 SEGMENT 3 IS TO BE IMPLEMENTED FOR CONSTRUCTION BETWEEN WAVERLY WAY AND BANKS STREET.

STAGE 4:


THE INTENT OF STAGE 4 IS TO CONSTRUCT PROPOSED MEDIAN AREAS AND MEDIAN CURBING ALONG PALM SPRINGS DRIVE USING A COMBINATION OF FLAGGING OPERATIONS AND DETOURS IF NECESSARY DURING OFF-PEAK HOURS.

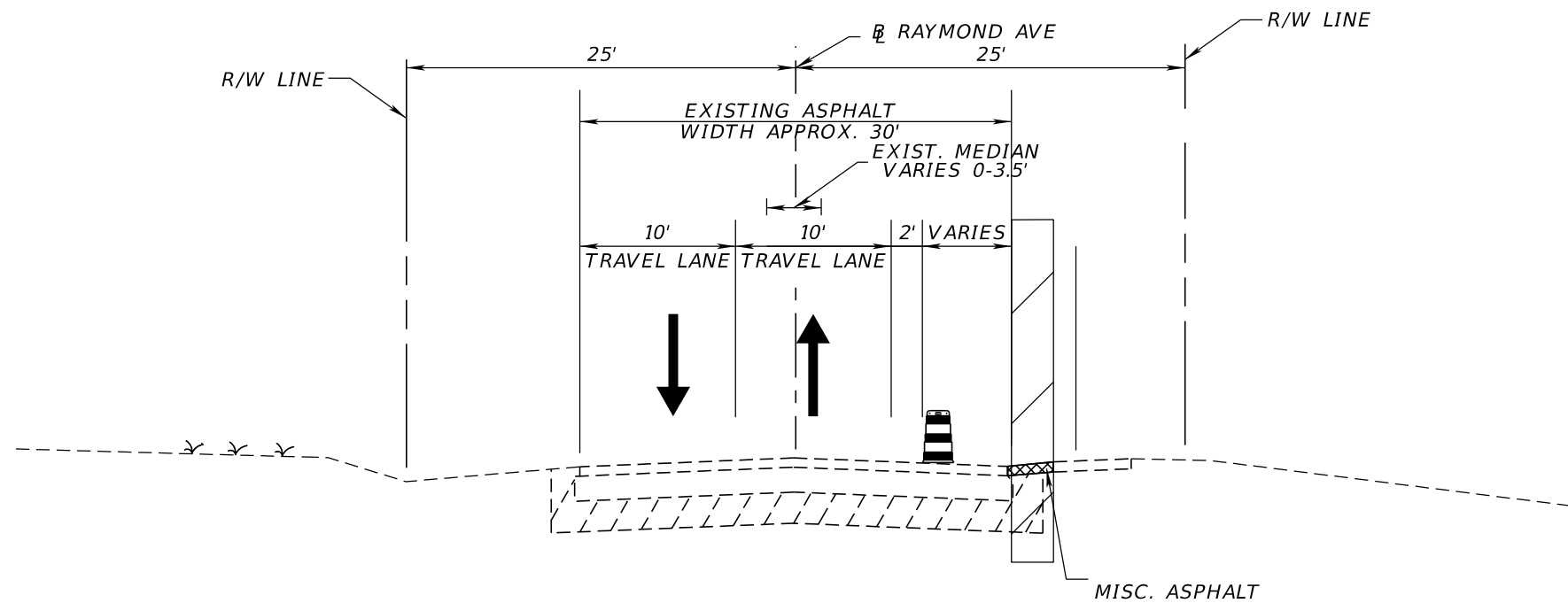
1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, 102-603, 102-604
2. CONSTRUCT MEDIAN AREAS AND CONSTRUCT TYPE B MEDIAN CURBING ALONG MEDIAN OF PALM SPRINGS DRIVE.

STAGE 5:

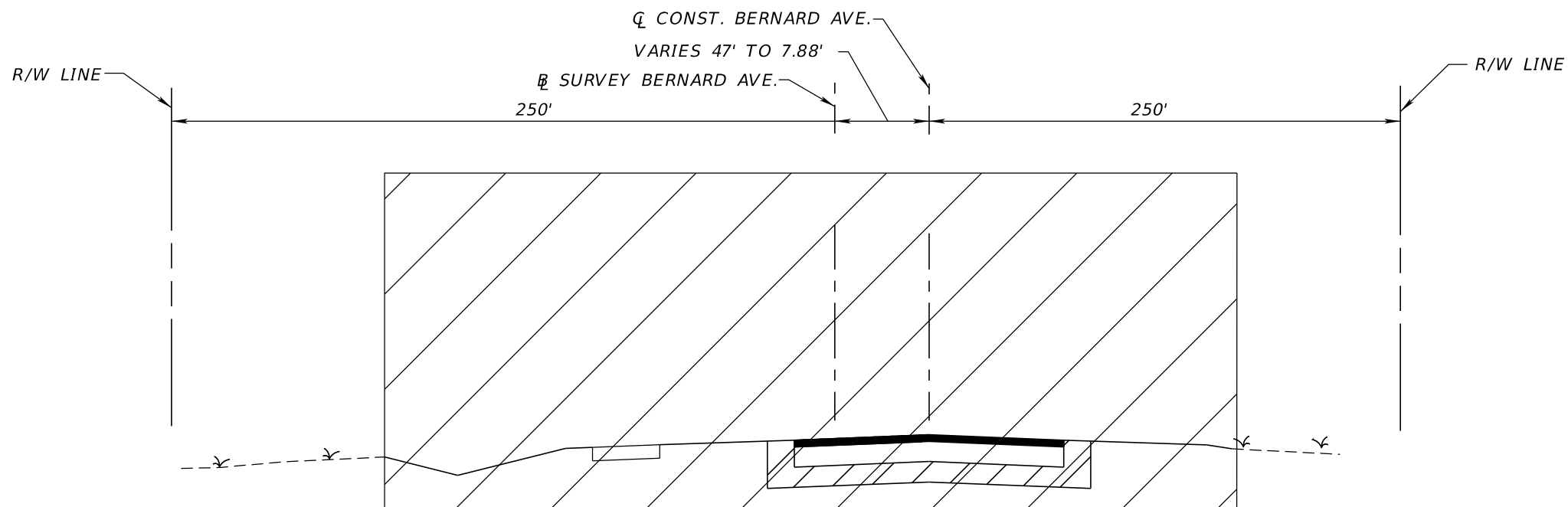
THE INTENT OF STAGE 5 IS TO PERFORM ALL REMAINING CONSTRUCTION ACTIVITIES ALONG NORTHBOUND PALM SPRINGS DRIVE WHILE NORHBOUND TRAFFIC IS DETOURED.

1. PHASE 3 STAGE 5 DETOUR 1 SEGMENT 1 IS TO BE IMPLEMENTED FOR CONSTRUCTION BETWEEN WAVERLY WAY AND BANKS STREET.
2. PHASE 3 STAGE 5 DETOUR 1 SEGMENT 2 IS TO BE IMPLEMENTED FOR CONSTRUCTION BETWEEN BANKS STREET AND PEARL STREET.
3. PHASE 3 STAGE 5 DETOUR 1 SEGMENT 3 IS TO BE IMPLEMENTED FOR CONSTRUCTION BETWEEN PEARL STREET AND ROXBORO ROAD.
4. IMPLEMENT PHASE 3 STAGE 5 DETOUR 2 FOR CONSTRUCTION BETWEEN ROXBORO ROAD TO ROBERT STREET.
5. IMPLEMENT PHASE 3 STAGE 5 DETOUR 3 FOR CONSTRUCTION BETWEEN ROBERT STREET AND MARVIN STREET.
6. IMPLEMENT PHASE 3 STAGE 5 DETOUR 4 FOR CONSTRUCTION BETWEEN MARVIN STREET TO NOBEL STREET.
7. IMPLEMENT PHASE 3 STAGE 5 DETOUR 5 FOR CONSTRUCTION BETWEEN NOBEL STREET AND BOYER STREET.

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		TEMPORARY TRAFFIC CONTROL GENERAL NOTES	SHEET NO. 307
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

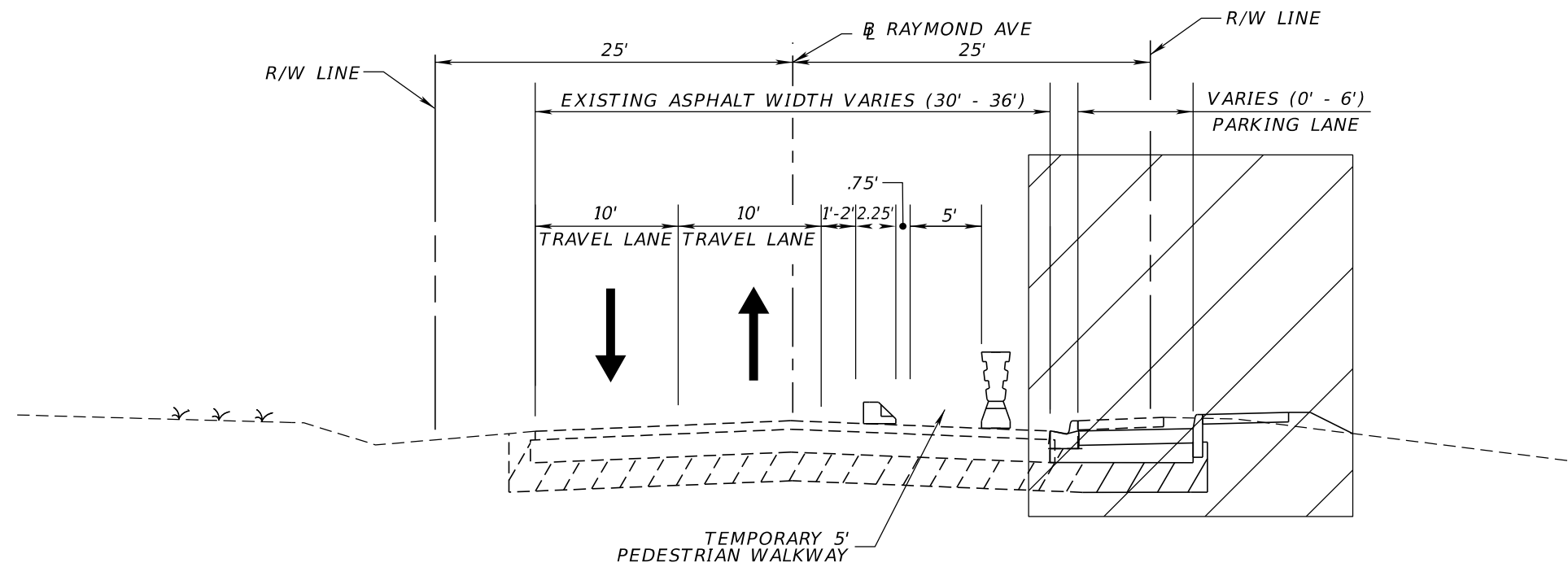


TYPICAL SECTION
 RAYMOND AVENUE - PHASE 1 STAGE 0
 STA. 10016+98.50 TO STA. 10018+85.64

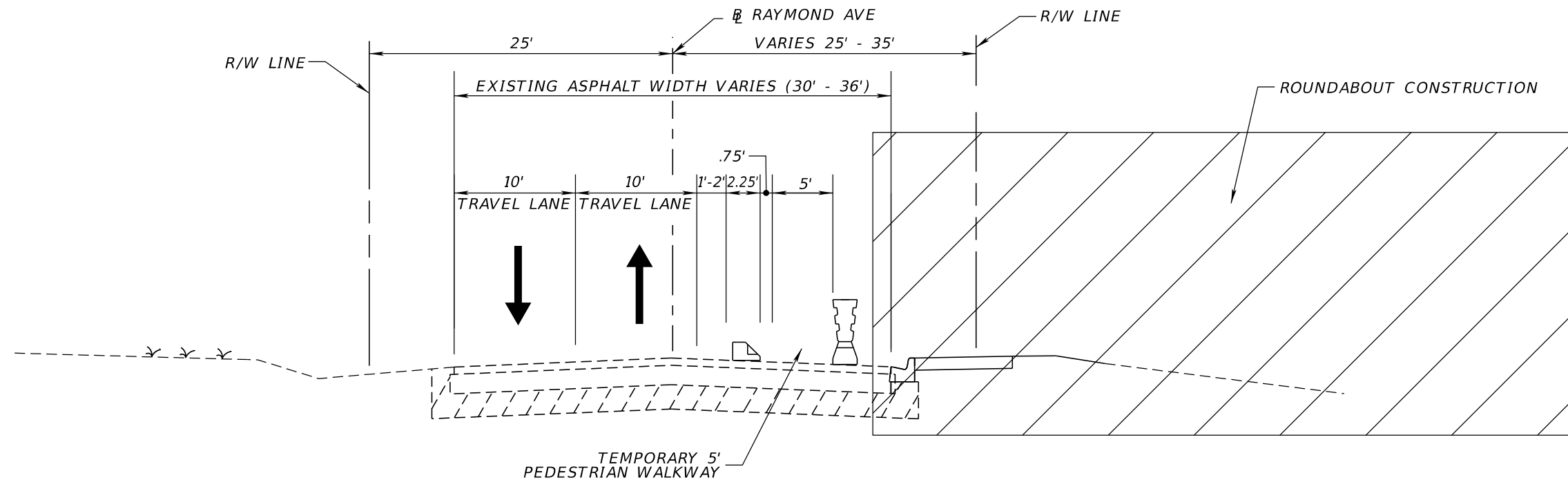


TYPICAL SECTION
 BERNARD AVENUE - PHASE 1 STAGE 0
 STA. 3901+78.00 TO STA. 3903+28.00

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No.		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		308

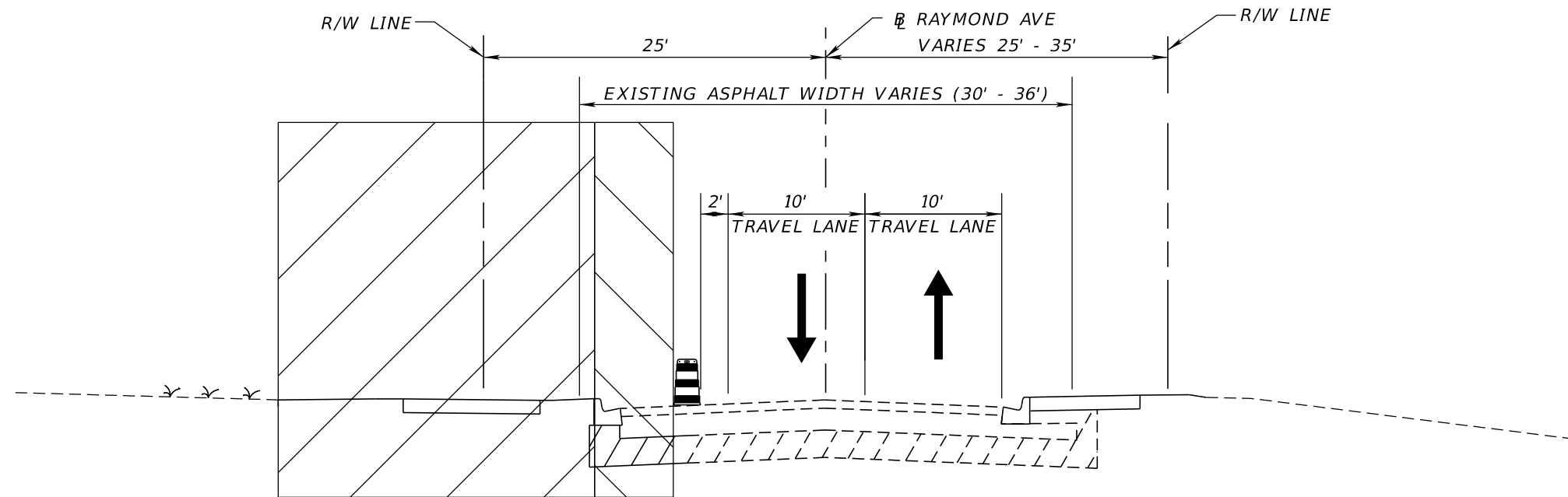


TYPICAL SECTION
 RAYMOND AVENUE - PHASE 1 STAGE 1
 STA. 10007+00 TO STA. 10015+00

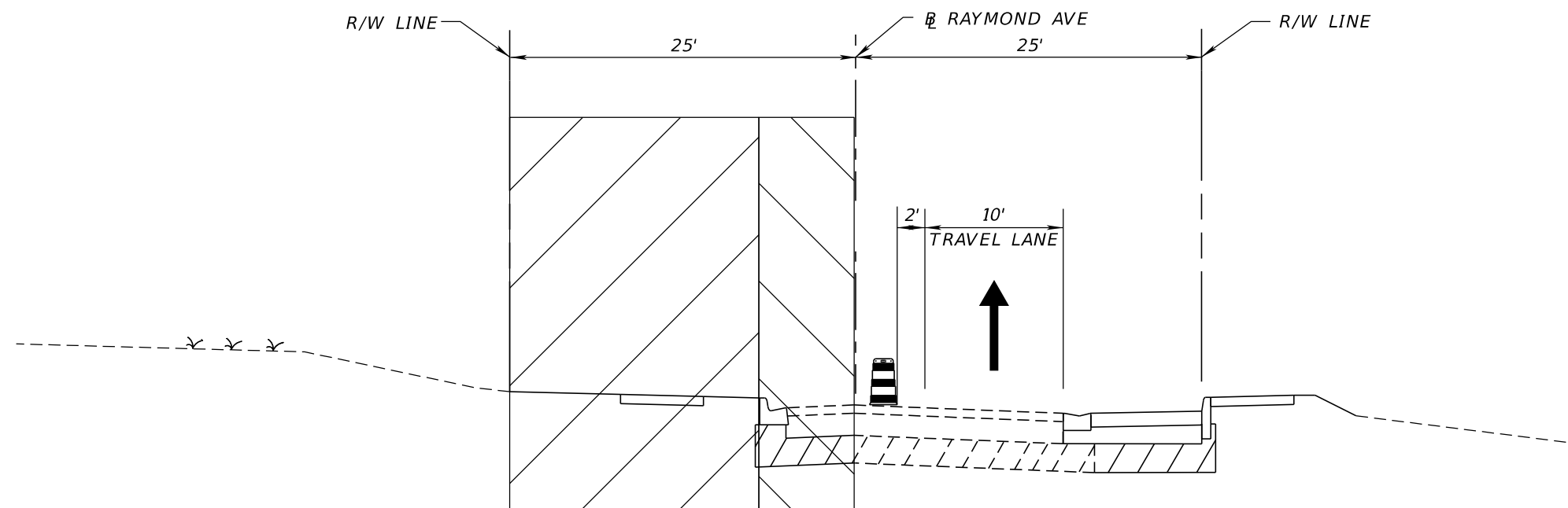


TYPICAL SECTION
 RAYMOND AVENUE - PHASE 1 STAGE 1
 STA. 10015+00 TO STA. 10019+24

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No.		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		309



TYPICAL SECTION
 RAYMOND AVENUE - PHASE 1 STAGE 2
 STA. 10019+80 TO STA. 10029+40



TYPICAL SECTION
 RAYMOND AVENUE - PHASE 1 STAGE 3
 STA. 10013+20 TO STA. 10019+60

NOTE:
 SOUTHBOUND TRAFFIC DETOURED ONTO
 BARTON ST. / HOMER AVE. / ADAMS ST.



WORK ZONE



WORK ZONE DURING
 OFF-PEAK/DETOUR HOURS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

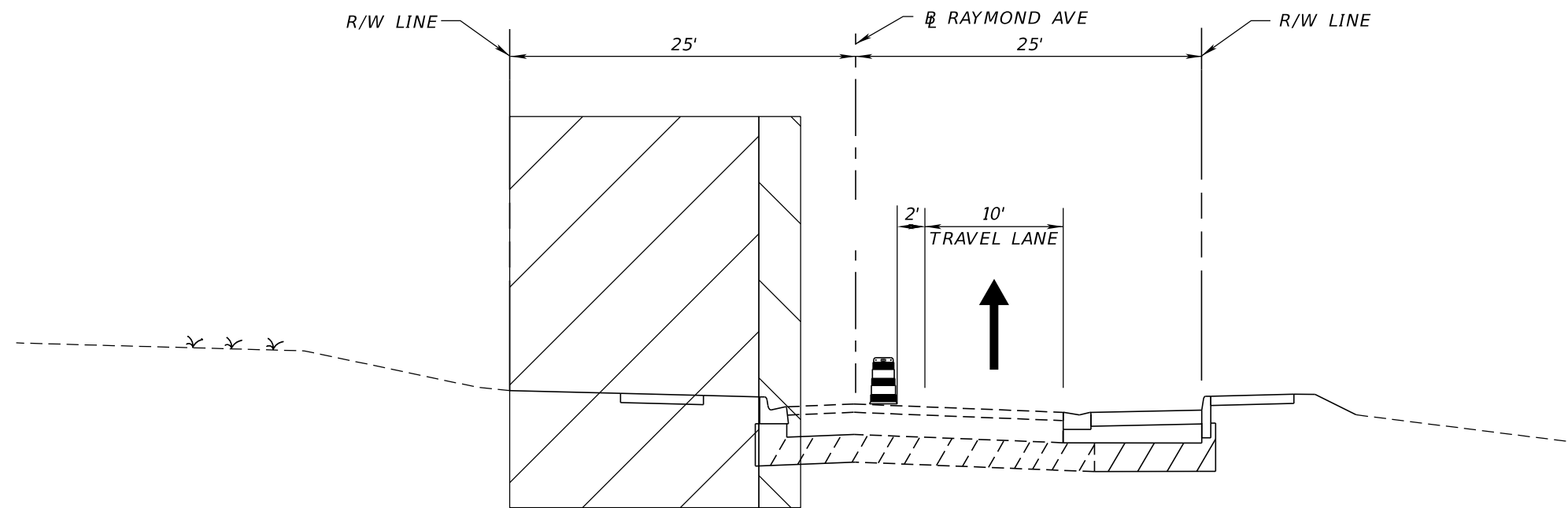


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

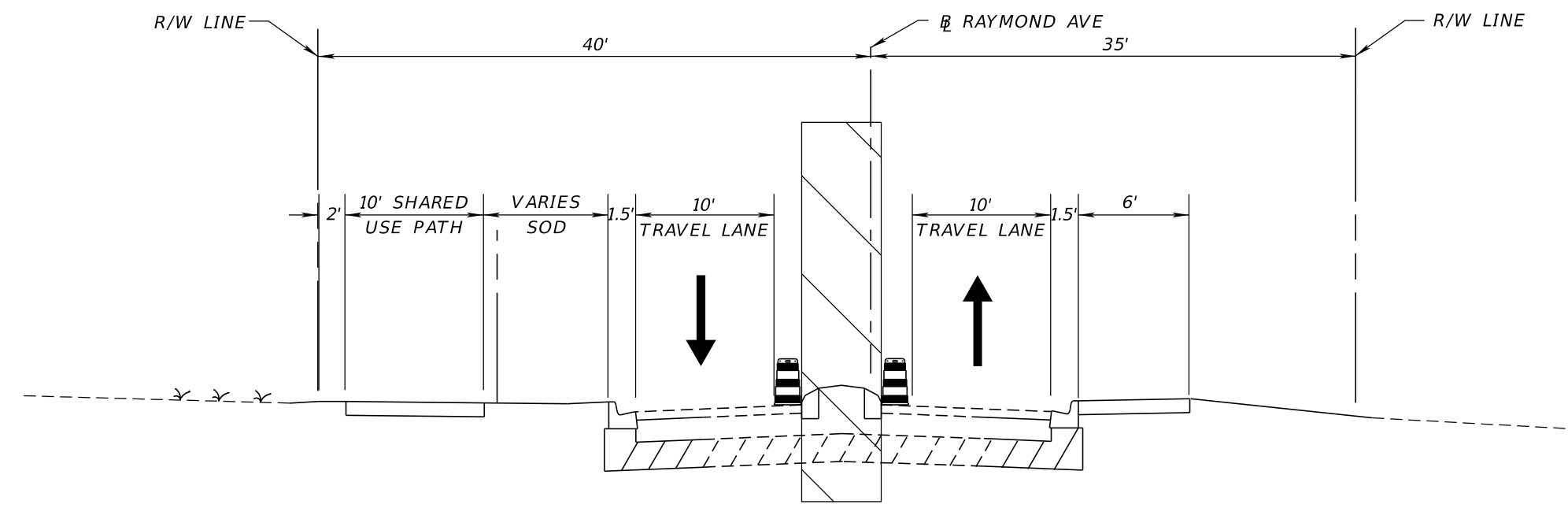
TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS


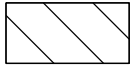
SHEET NO.
310




NOTE:
SOUTHBOUND TRAFFIC DETOURED, REFER
TO RAYMOND AVENUE DETOUR 2 & 3

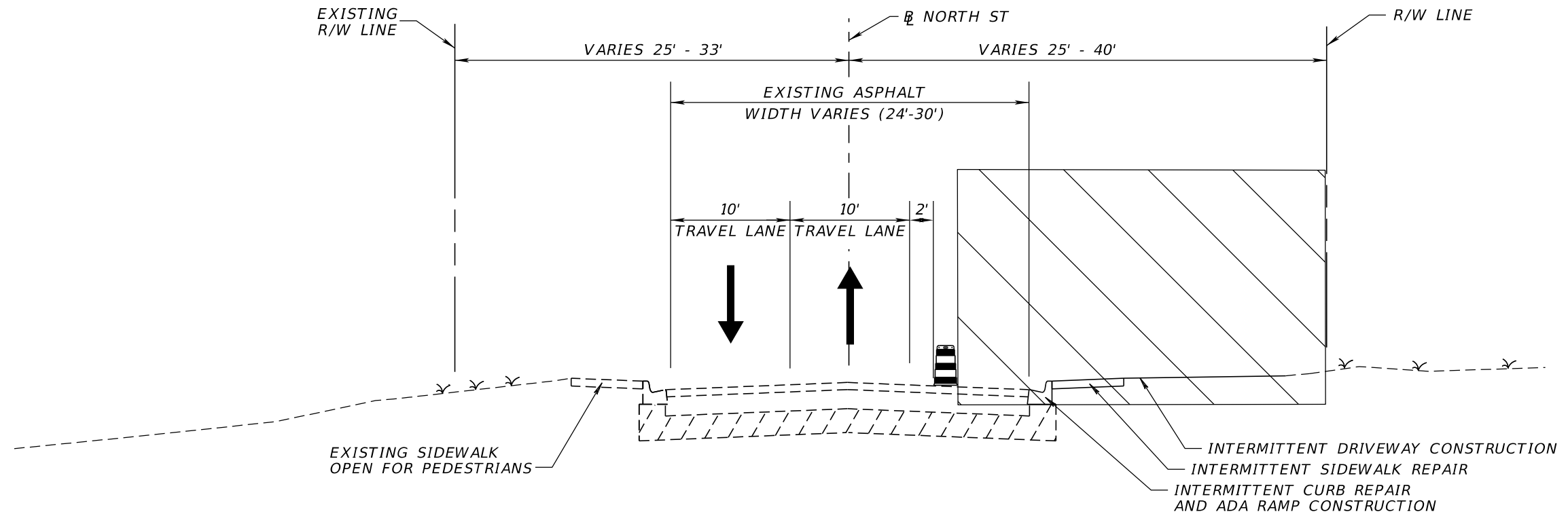
TYPICAL SECTION
RAYMOND AVENUE - STAGE 4
STA. 10000+30 TO STA. 10013+20



 WORK ZONE
 WORK ZONE DURING
OFF-PEAK/DETOUR HOURS

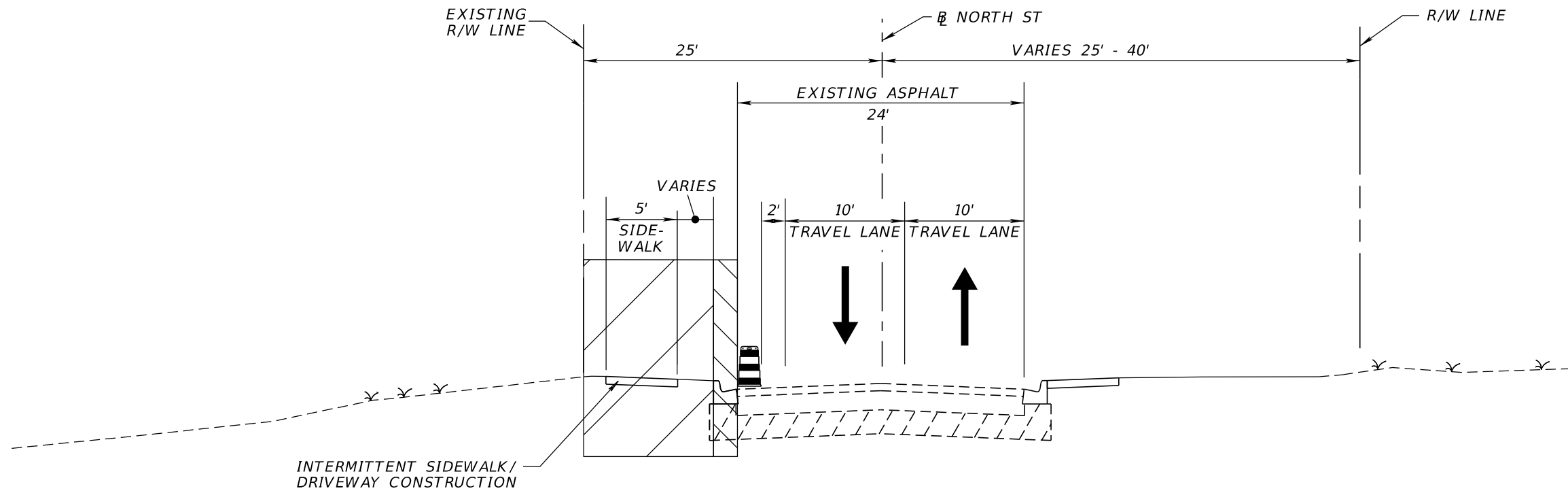
TYPICAL SECTION
RAYMOND AVENUE - PHASE 1 STAGE 4
STA. 10020+20 TO STA. 10026+24

REVISIONS				<small>TYLER VALILA, P.E. LICENSE NO. 90792</small>  <small>315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242</small>	<small>SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1</small> <small>ROAD COUNTY CIP No.</small>		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	<small>SHEET NO.</small> 311
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

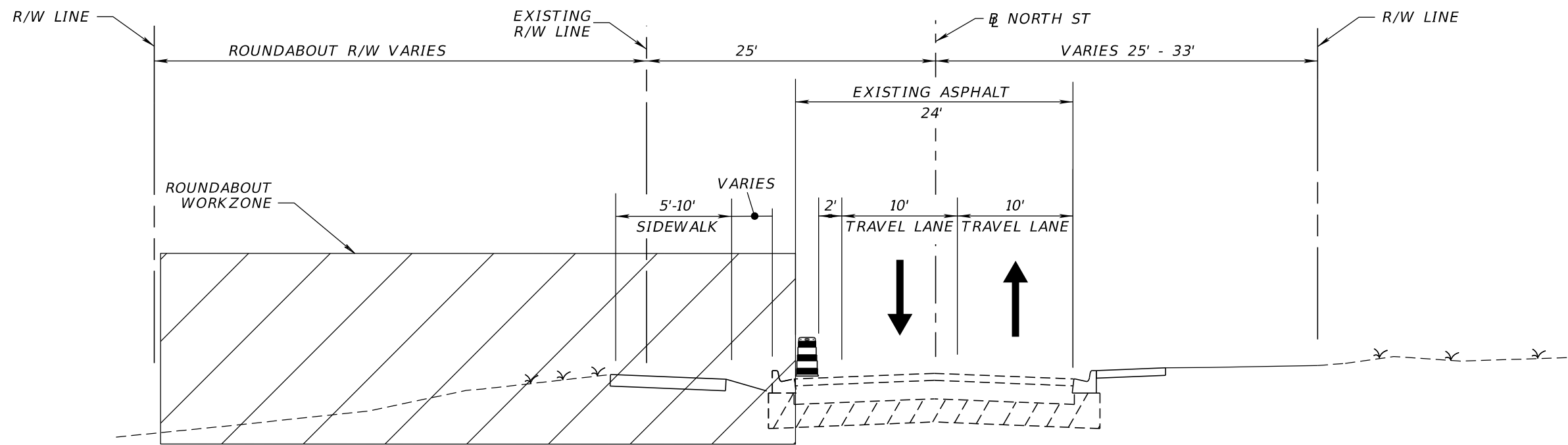


TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 1
 STA. 20010+65 TO STA. 20043+35


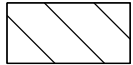
REVISIONS				TYLER VALILA, P.E. HR LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No.		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 312
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		



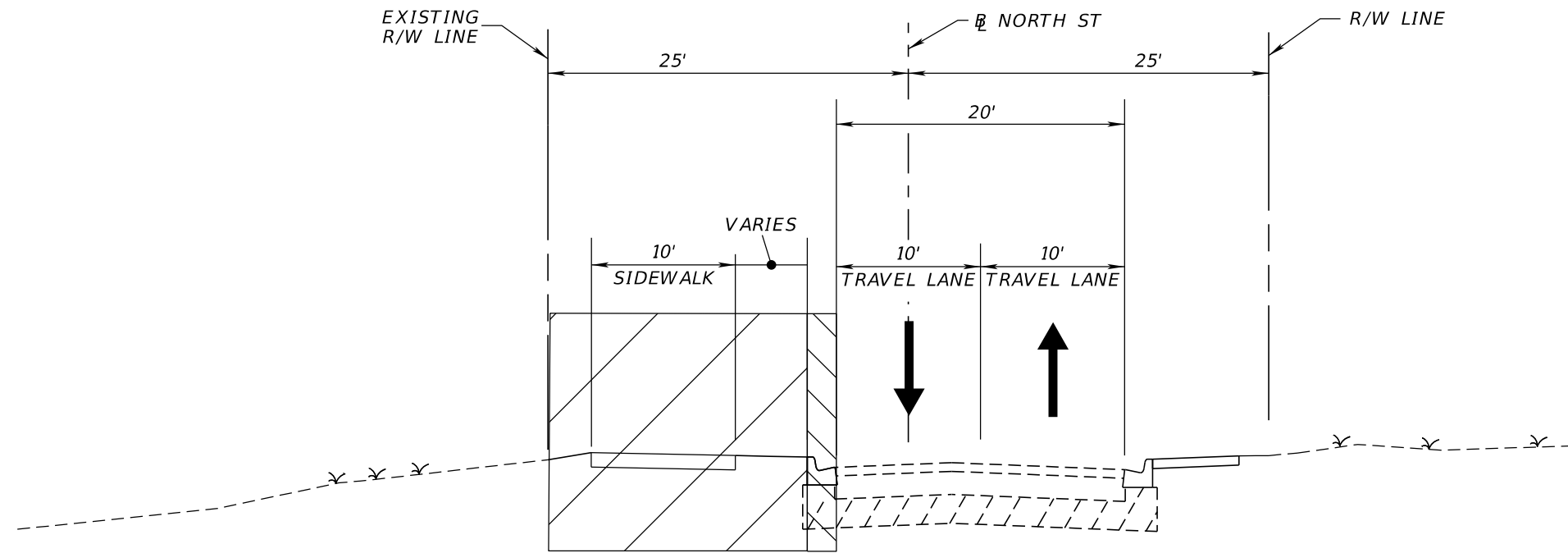
TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 2
 STA. 20003+43 TO STA. 20013+40



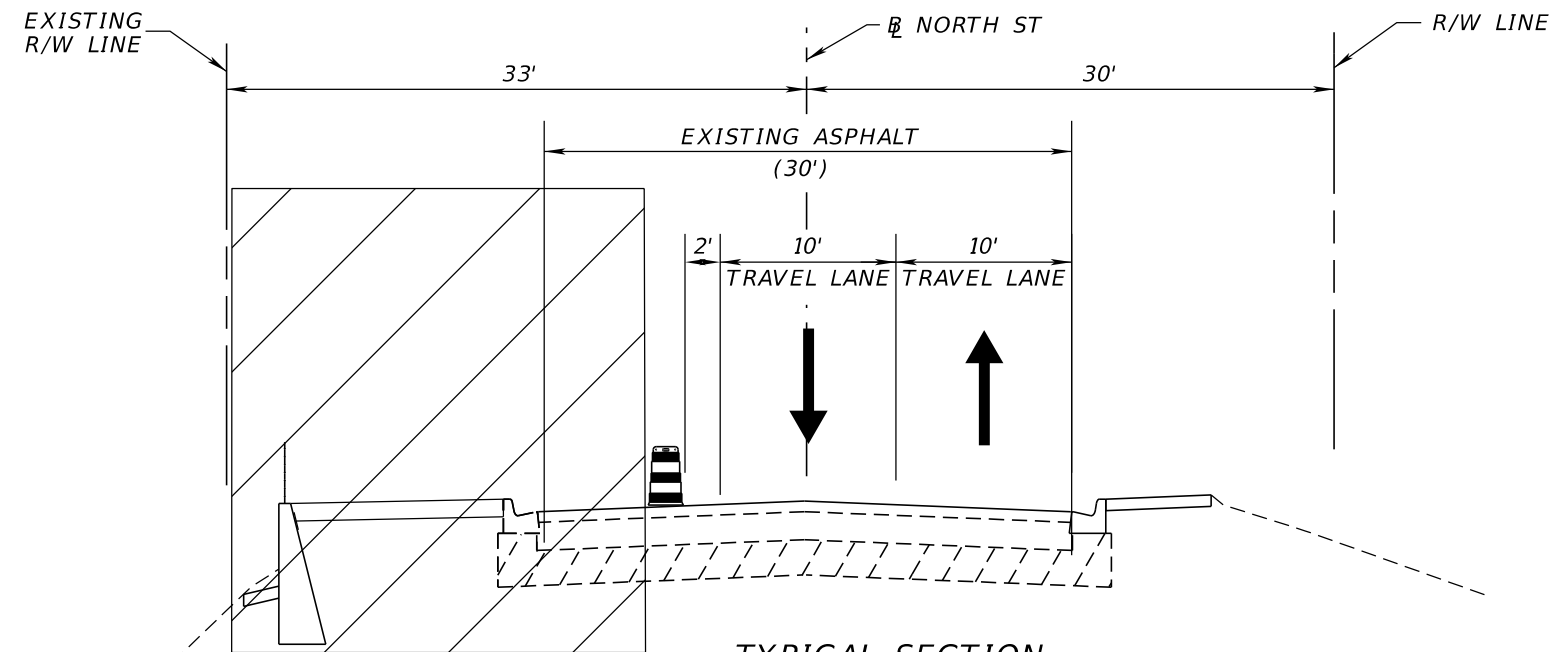
TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 2
 STA. 20013+40 TO STA. 20018+20

 WORK ZONE
 WORK ZONE DURING OFF-PEAK HOURS


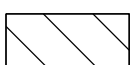
REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No.		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 313
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		




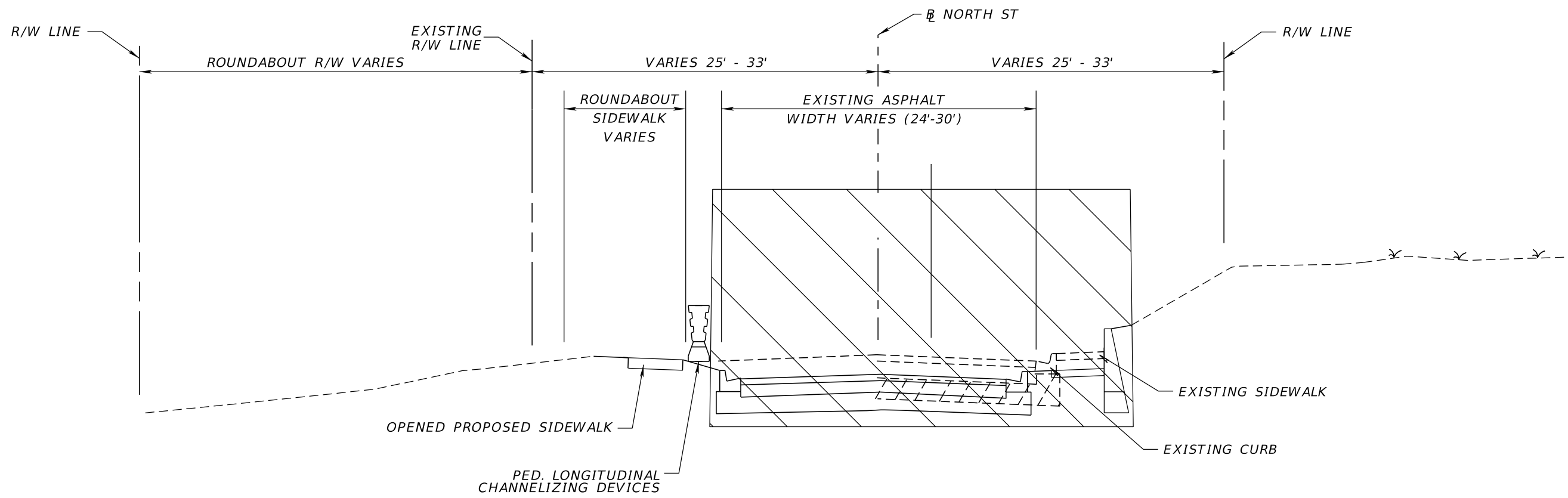
TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 2
 STA. 20018+20 TO STA. 20029+40.19



TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 2
 STA. 20031+30 TO STA. 20043+35
 (STA. 20036+00 SHOWN)

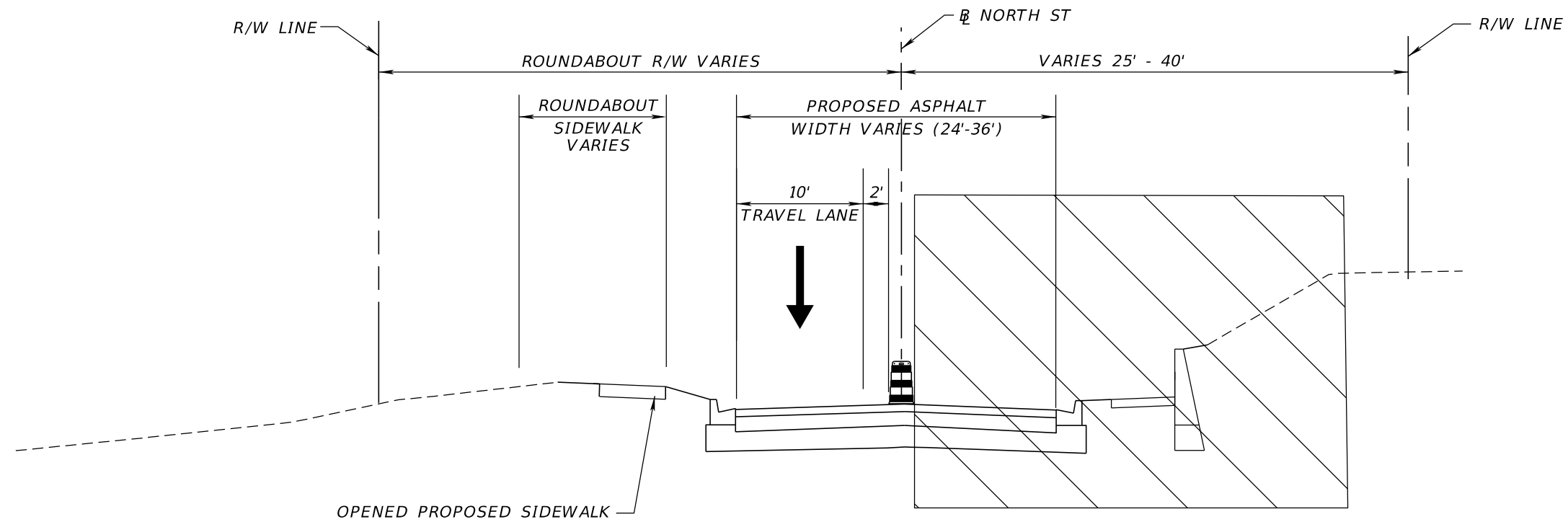
-  WORK ZONE
-  WORK ZONE DURING OFF-PEAK HOUR FLAGGING OPERATIONS

REVISIONS				TYLER VALILA, P.E.  LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No.		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		314

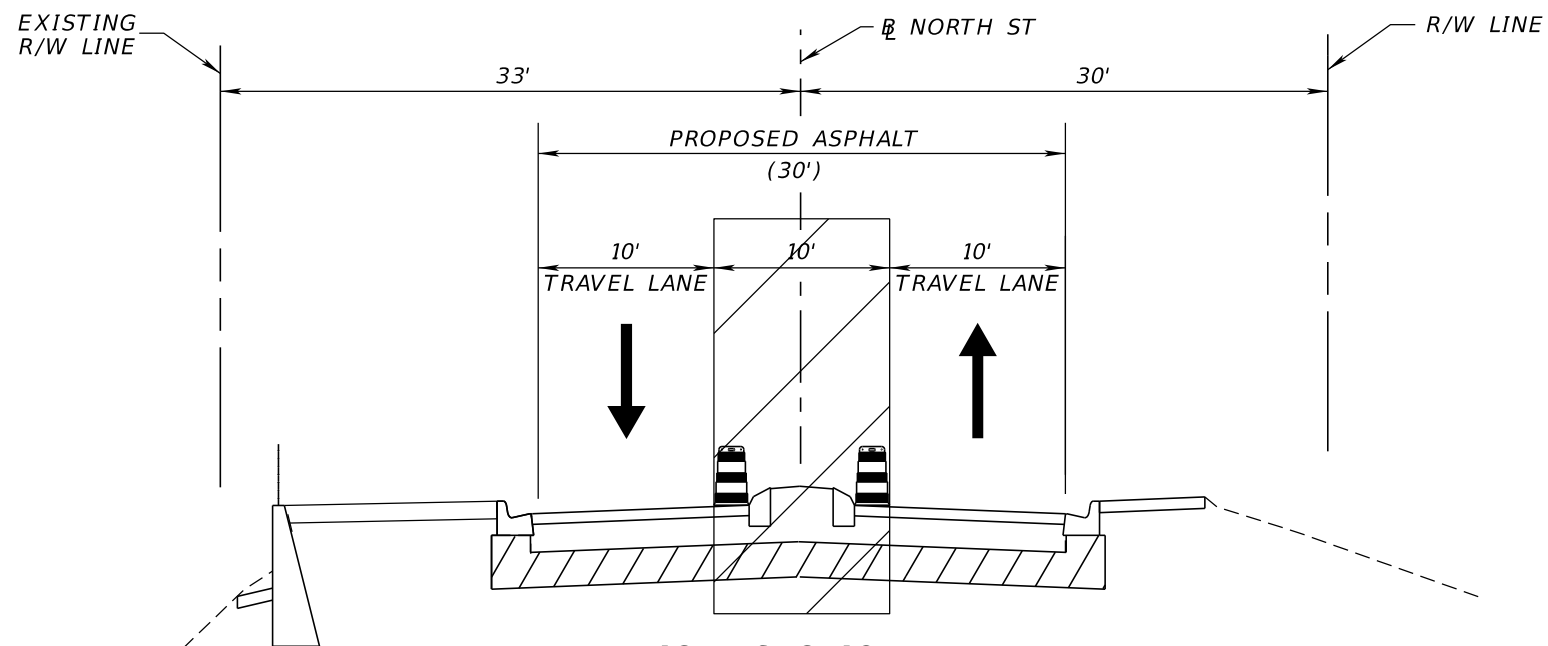


TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 3
 STA. 20012+00 TO STA. 20016+00
 (STA. 20013+50 SHOWN)


REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 315
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		



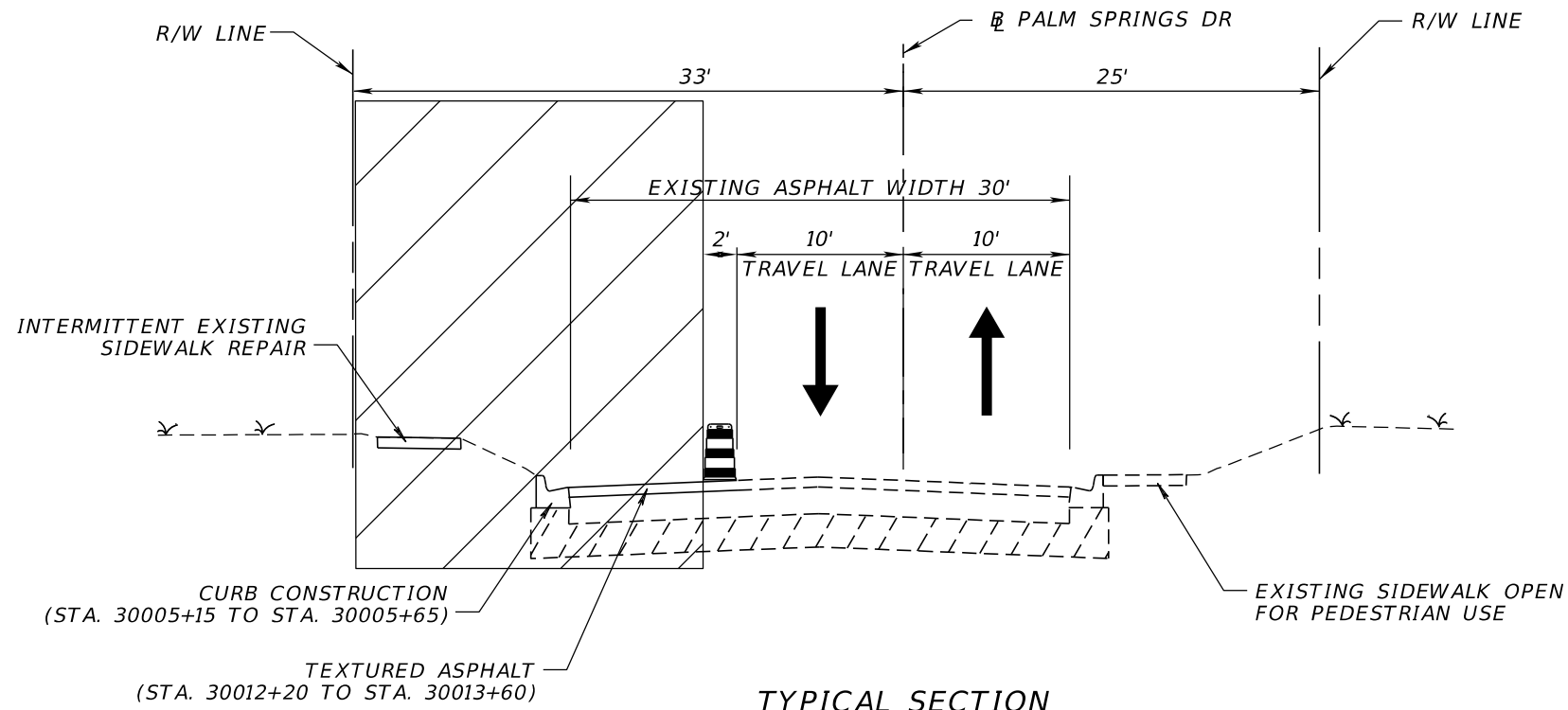
TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 4
 STA. 20012+00 TO STA. 20017+10
 (STA. 20013+50 SHOWN)



TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 4
 STA. 20031+30 TO STA. 20043+35
 (STA. 20036+00 SHOWN)

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No.		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 316
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		
					ELEM	4/15/2024	2:30:47 PM	PW\

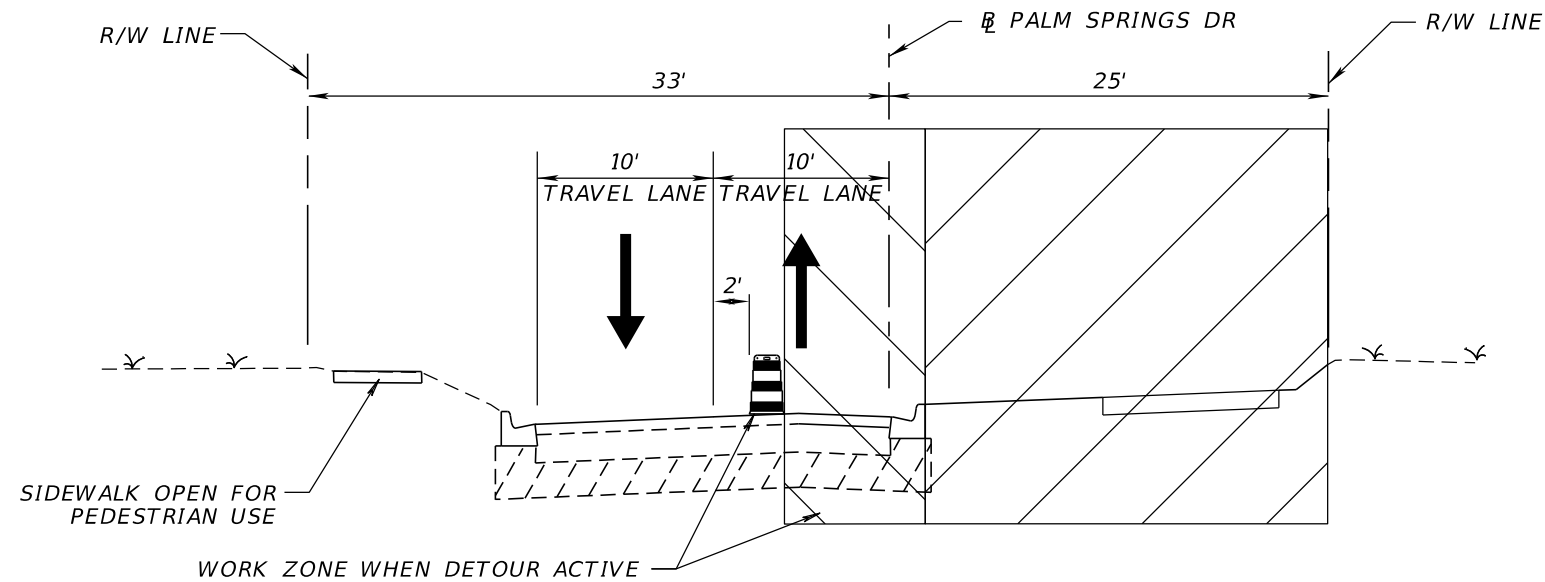
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



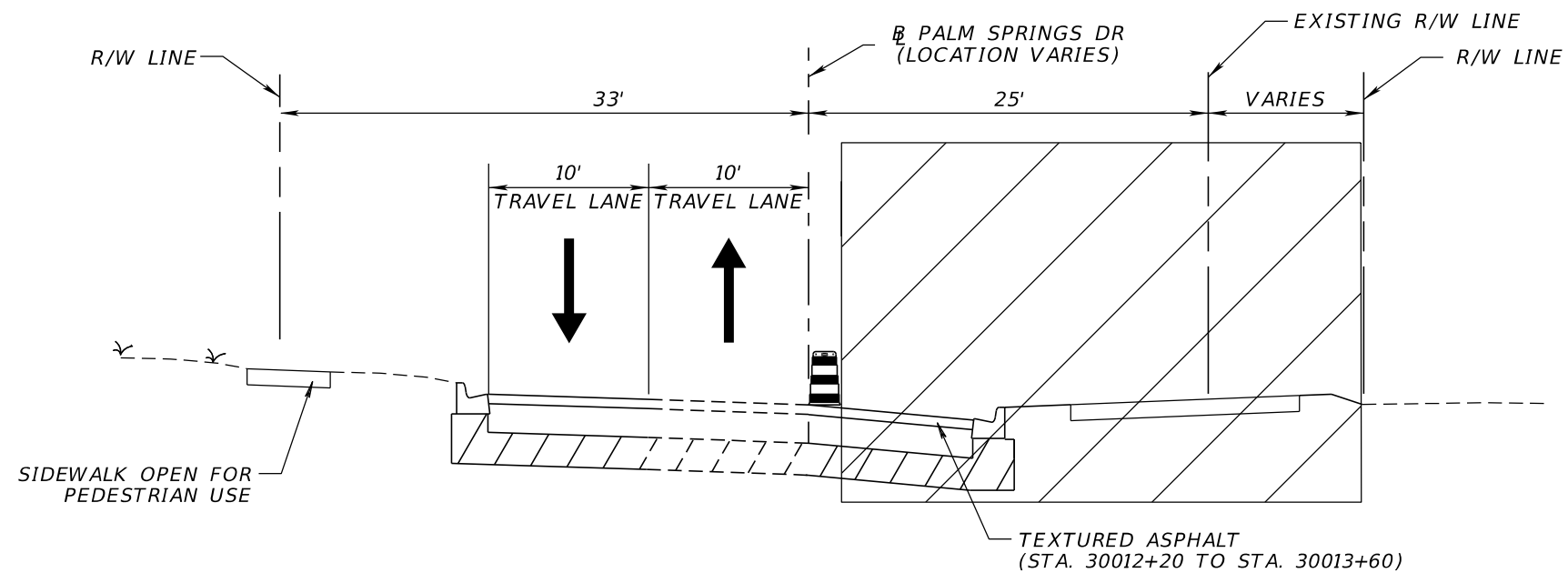
TYPICAL SECTION
PALM SPRINGS DRIVE - PHASE 3 STAGE 1 STEP 1
STA. 30005+20 TO STA. 30014+50

REVISIONS				<small>TYLER VALILA, P.E.</small> HR <small>LICENSE NO. 90792</small> <small>315 E. ROBINSON ST.</small> <small>SUITE 400</small> <small>ORLANDO, FL 32801</small> <small>PHONE 407.420.4200</small> <small>FAX 407.420.4242</small>	<small>SEMINOLE COUNTY</small> <small>ENGINEERING DIVISION</small> <small>ROLLING HILLS AREA ROADWAYS PHASE 1</small> <small>ROAD</small>		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	<small>SHEET NO.</small> 317
DATE	DESCRIPTION	DATE	DESCRIPTION		<small>COUNTY CIP No.</small> 01907084			



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



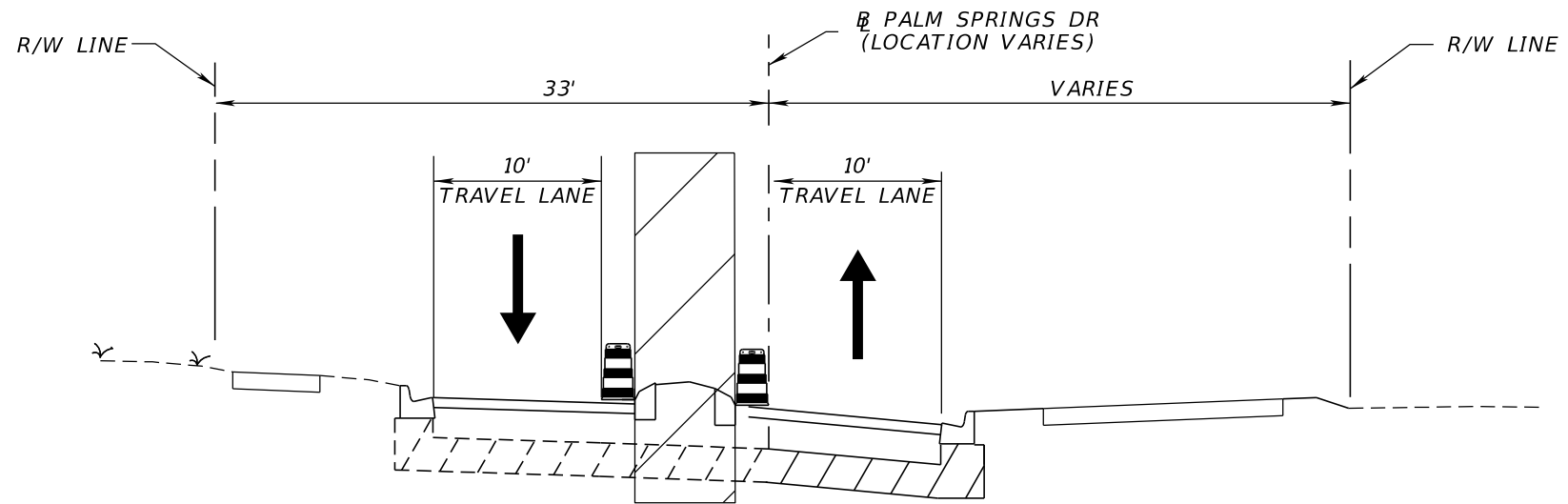
TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 1 STEP 2
 STA. 30005+20 TO STA. 30012+00
 (STA. 30008+00 SHOWN)



TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 1 STEP 2
 STA. 30012+00 TO STA. 30014+50
 (STA. 30012+50 SHOWN)

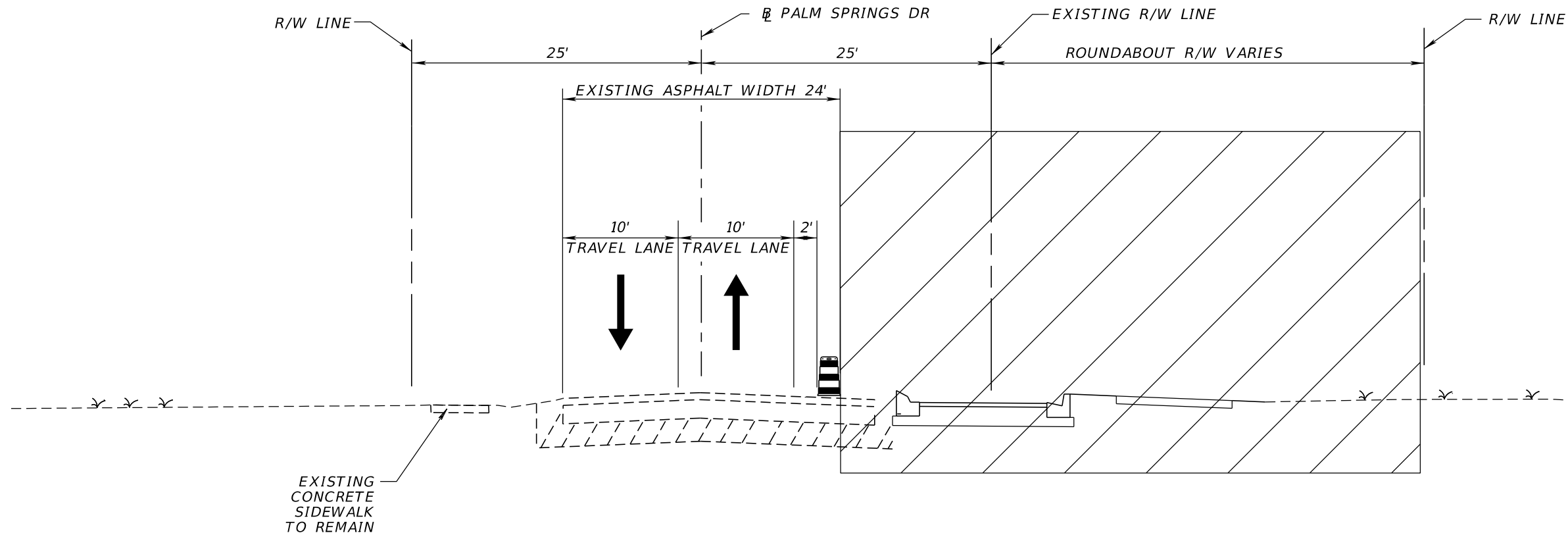
 WORK ZONE
 WORK ZONE DURING OFF-PEAK DETOUR HOURS

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No.		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 318
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		



TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 1 STEP 3
 STA. 30012+00 TO STA. 30014+50
 (STA. 30012+50 SHOWN)

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 319
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		



TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 2 STEP 1
 STA. 30017+30 TO STA. 30034+80
 (STA. 30025+50 SHOWN)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

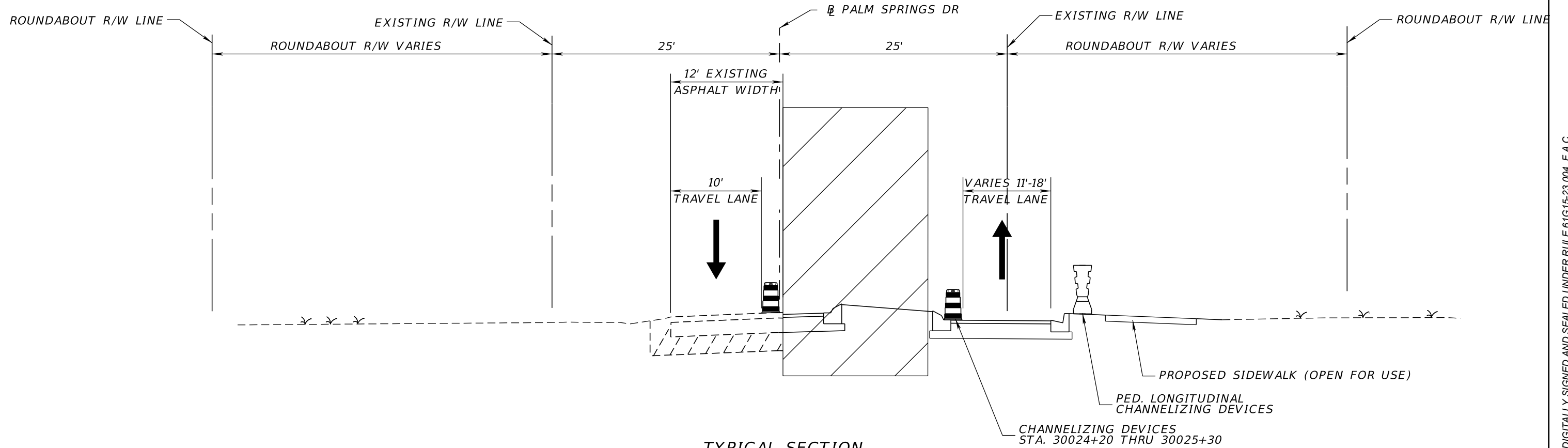


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.
 320



TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 2 STEP 2
 STA. 30017+50 TO STA. 30030+54
 (STA. 30025+50 SHOWN)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

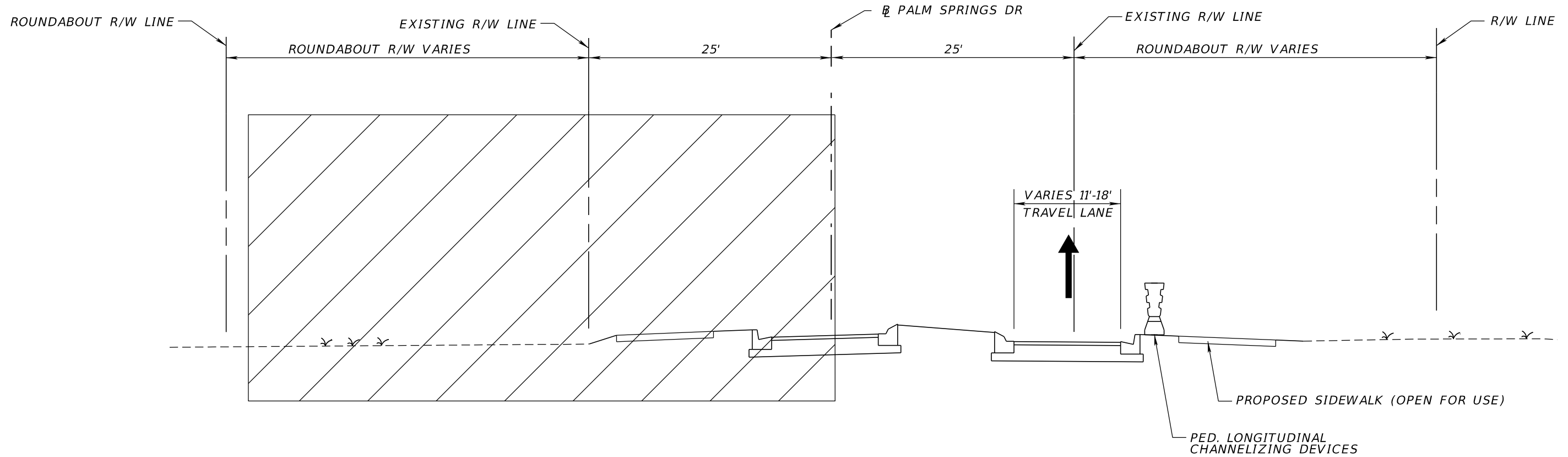
TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH
 ST., PALM SPRINGS DR. 01907084

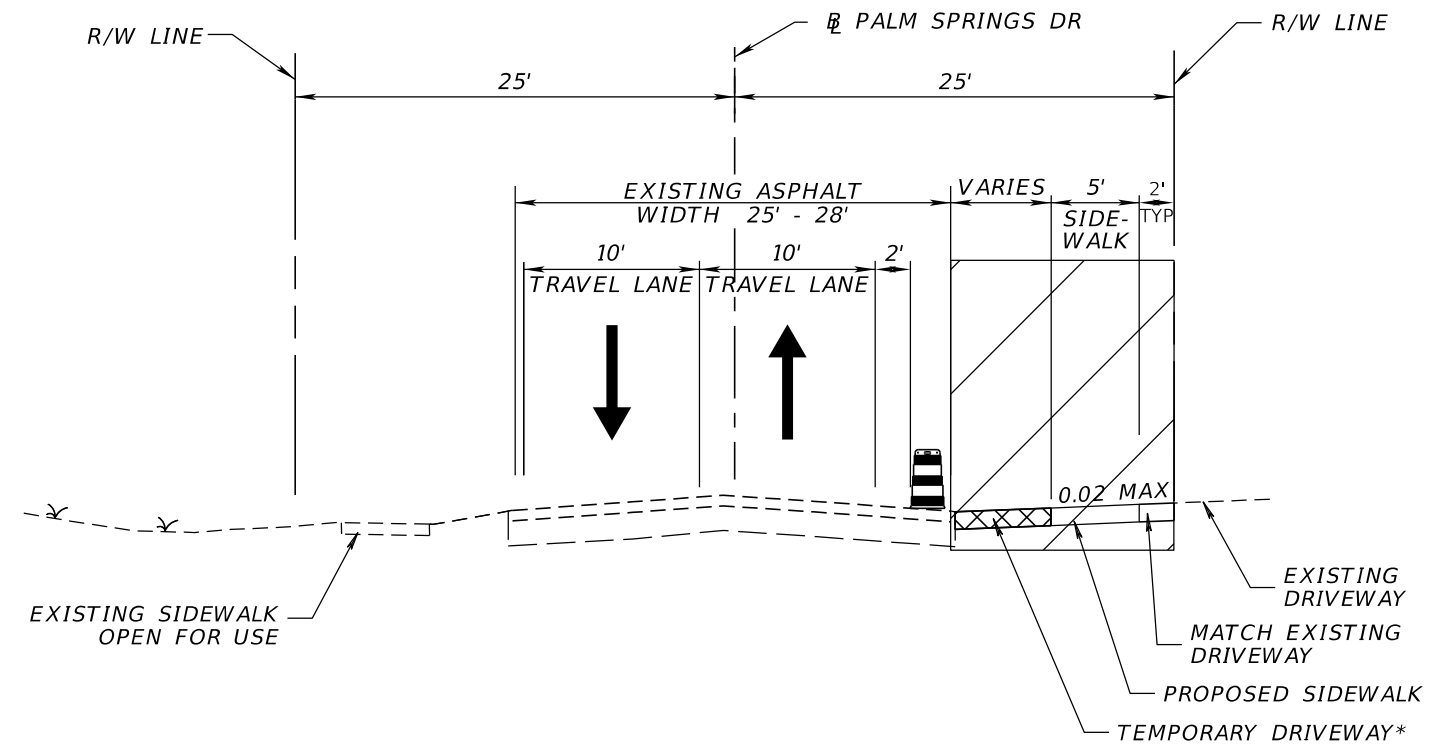
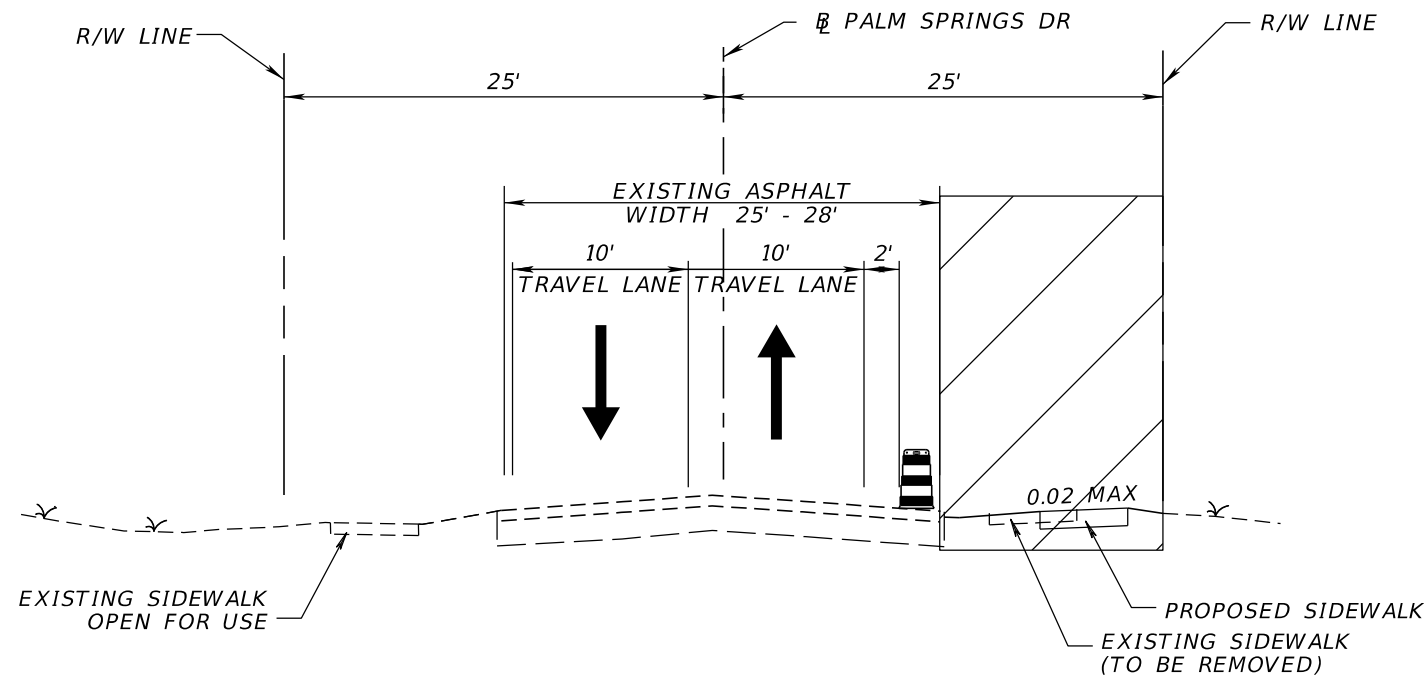
TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.
 321



TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 2 STAGE 3
 STA. 30017+50 TO STA. 30030+86
 (STA. 30025+50 SHOWN)

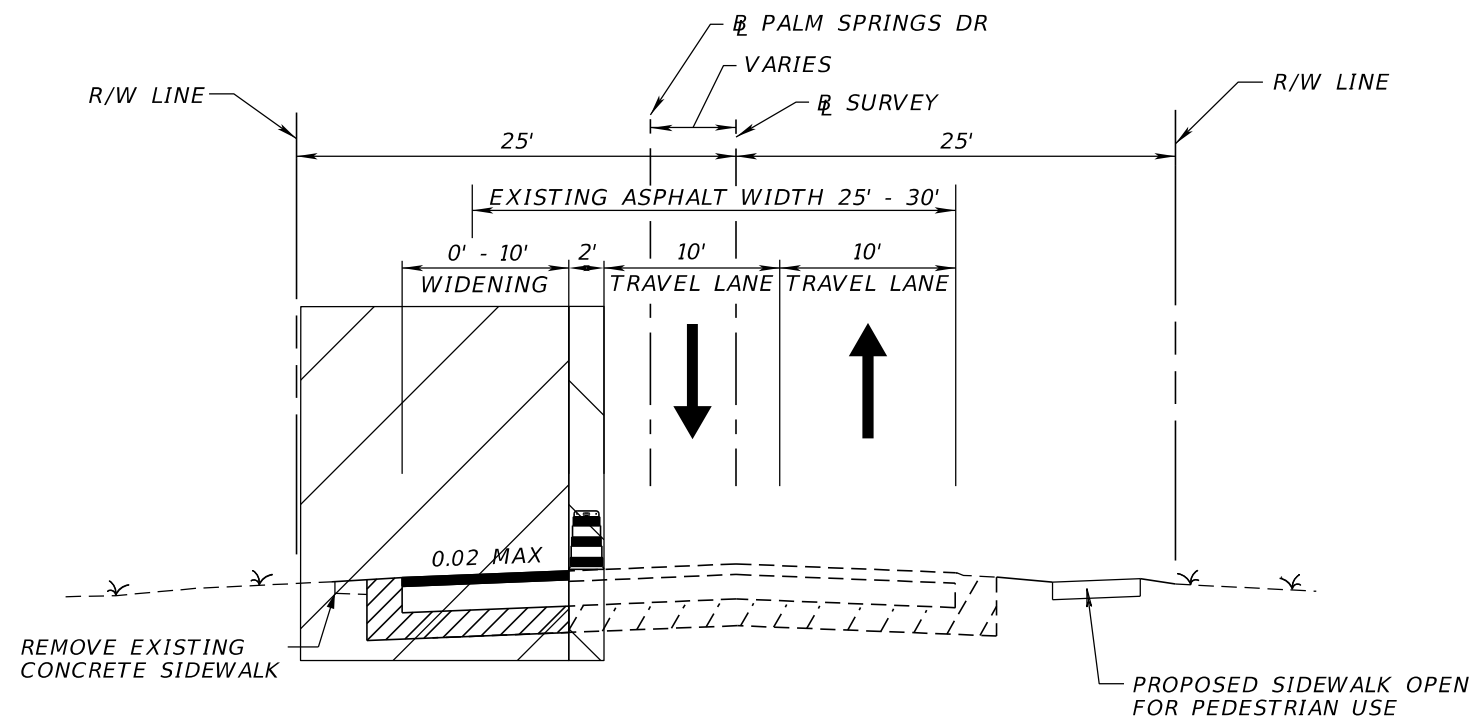
REVISIONS				<small>TYLER VALILA, P.E. LICENSE NO. 90792</small> HR <small>315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801</small> <small>PHONE 407.420.4200 FAX 407.420.4242</small>	<small>SEMINOLE COUNTY ENGINEERING DIVISION</small> ROLLING HILLS AREA ROADWAYS PHASE 1 <small>ROAD COUNTY CIP No.</small>		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	<small>SHEET NO.</small> 322
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		



TYPICAL SECTION


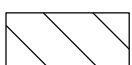
PALM SPRINGS DRIVE - PHASE 3 STAGE 3 STEP 1
STA. 30030+54 TO STA. 30042+23.97

*IN INSTANCES WHICH THE FINAL DRIVEWAY GRADE AND ELEVATION DIFFER FROM EXISTING, USE TEMPORARY PAVEMENT; THEN CONSTRUCT FINAL DRIVEWAY DURING PHASE 3 STAGE 5



TYPICAL SECTION

PALM SPRINGS DRIVE - PHASE 3 STAGE 3 STEP 2
STA. 30030+86 TO STA. 30042+23.97

-  WORK ZONE
-  WORK ZONE DURING OFF-PEAK DETOUR HOURS OR FLAGGING OPERATIONS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
315 E. ROBINSON ST. SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

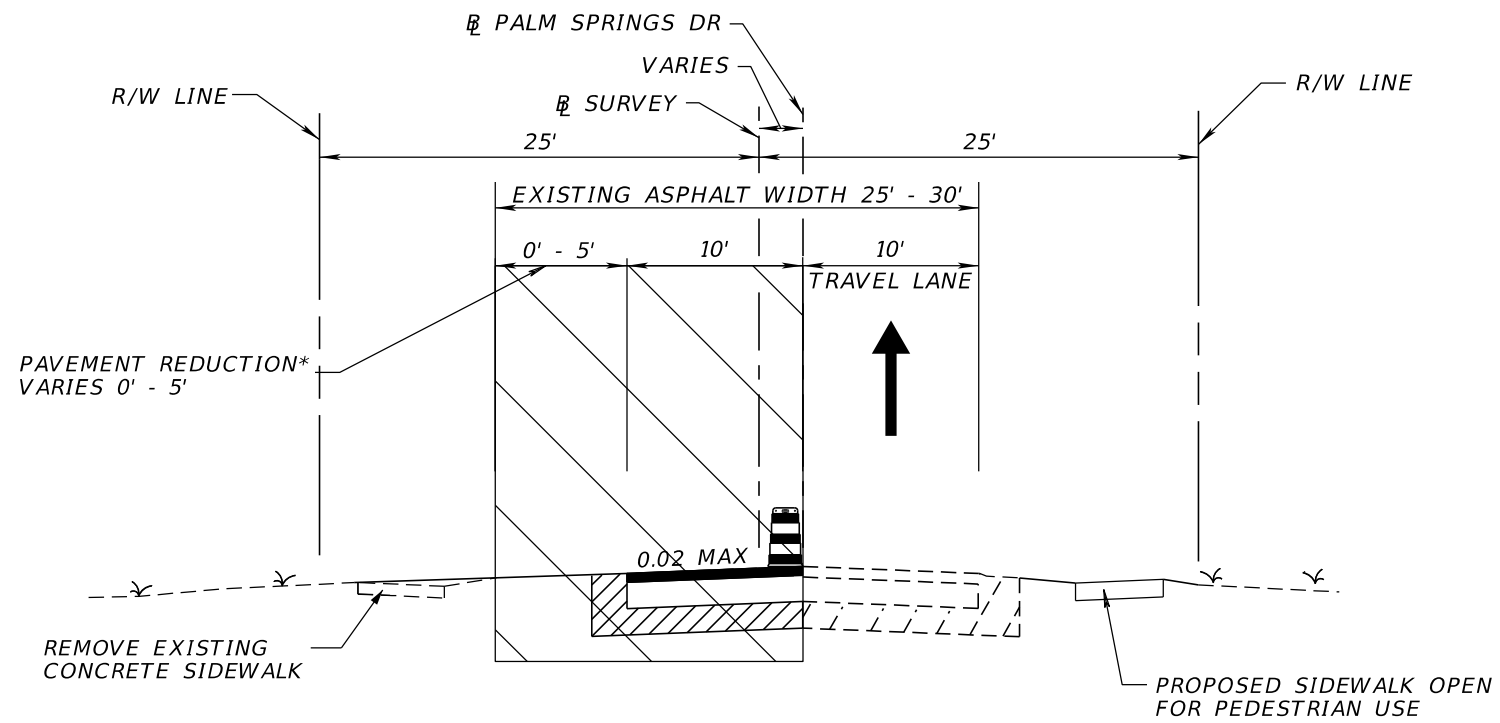


SEMINOLE COUNTY ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
ROAD COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

TEMPORARY TRAFFIC CONTROL
TYPICAL SECTIONS

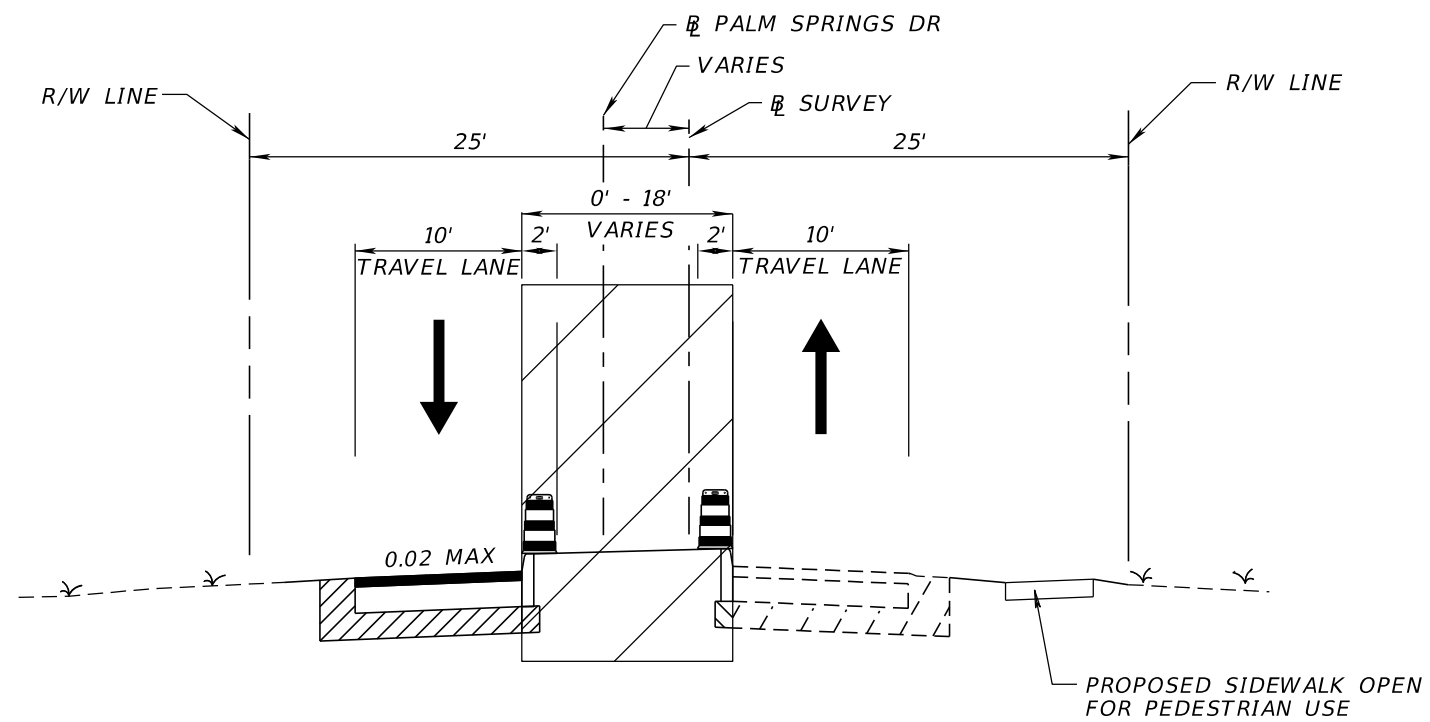
SHEET NO.
323

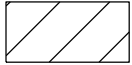

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*PAVEMENT REDUCTION
 STA. 30035+27.91 TO STA. 30037+65.17
 STA. 30054+12.42 TO STA. 30055+65.67

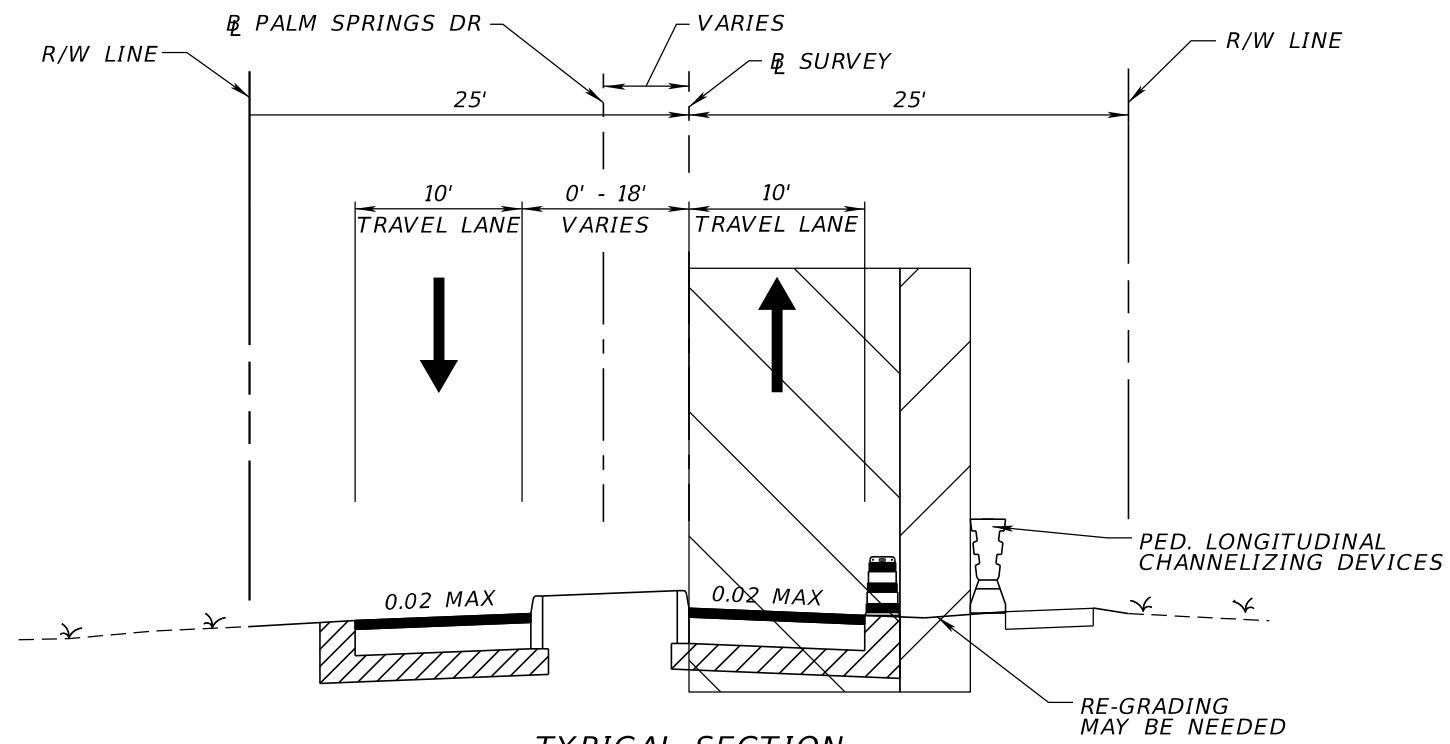
TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 3 STEP 3
 STA. 30030+86 TO STA. 30042+23.97



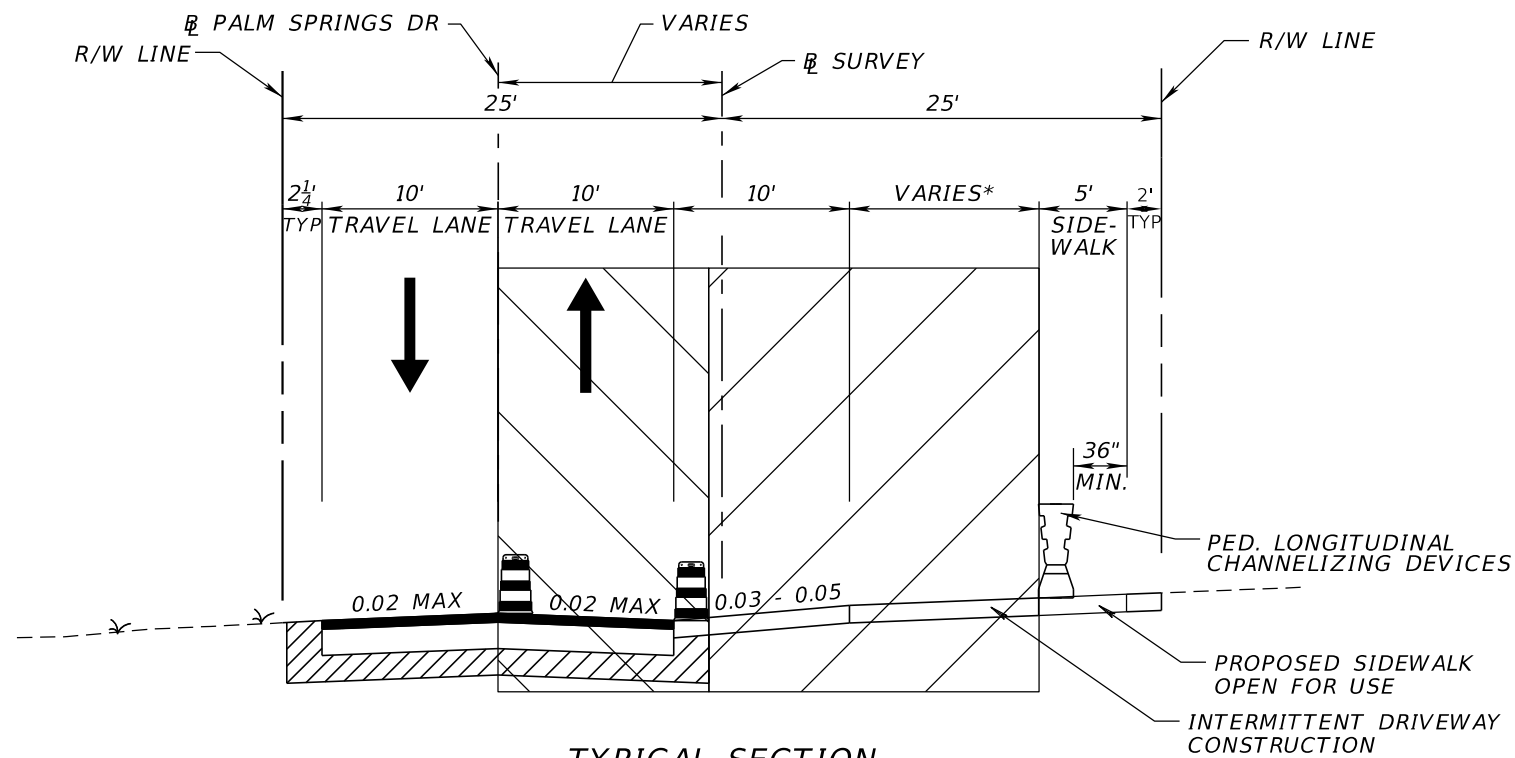
 WORK ZONE
 WORK ZONE DURING OFF-PEAK DETOUR HOURS OR FLAGGING OPERATIONS

TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 4
 STA. 30030+86 TO STA. 30042+23.97

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No.		TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	SHEET NO. 324
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

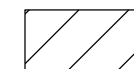


TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 5
 STA. 30030+86 TO STA. 30032+16.51
 STA. 30034+12.65 TO STA. 30042+23.97



TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 5
 STA. 30032+16.51 TO STA. 30034+12.65

*REMAINING PROPOSED DRIVEWAY AS NEEDED FROM PHASE 3 STAGE 3 STEP 1



WORK ZONE



WORK ZONE DURING OFF-PEAK DETOUR HOURS OR FLAGGING OPERATIONS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.
 325

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

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;

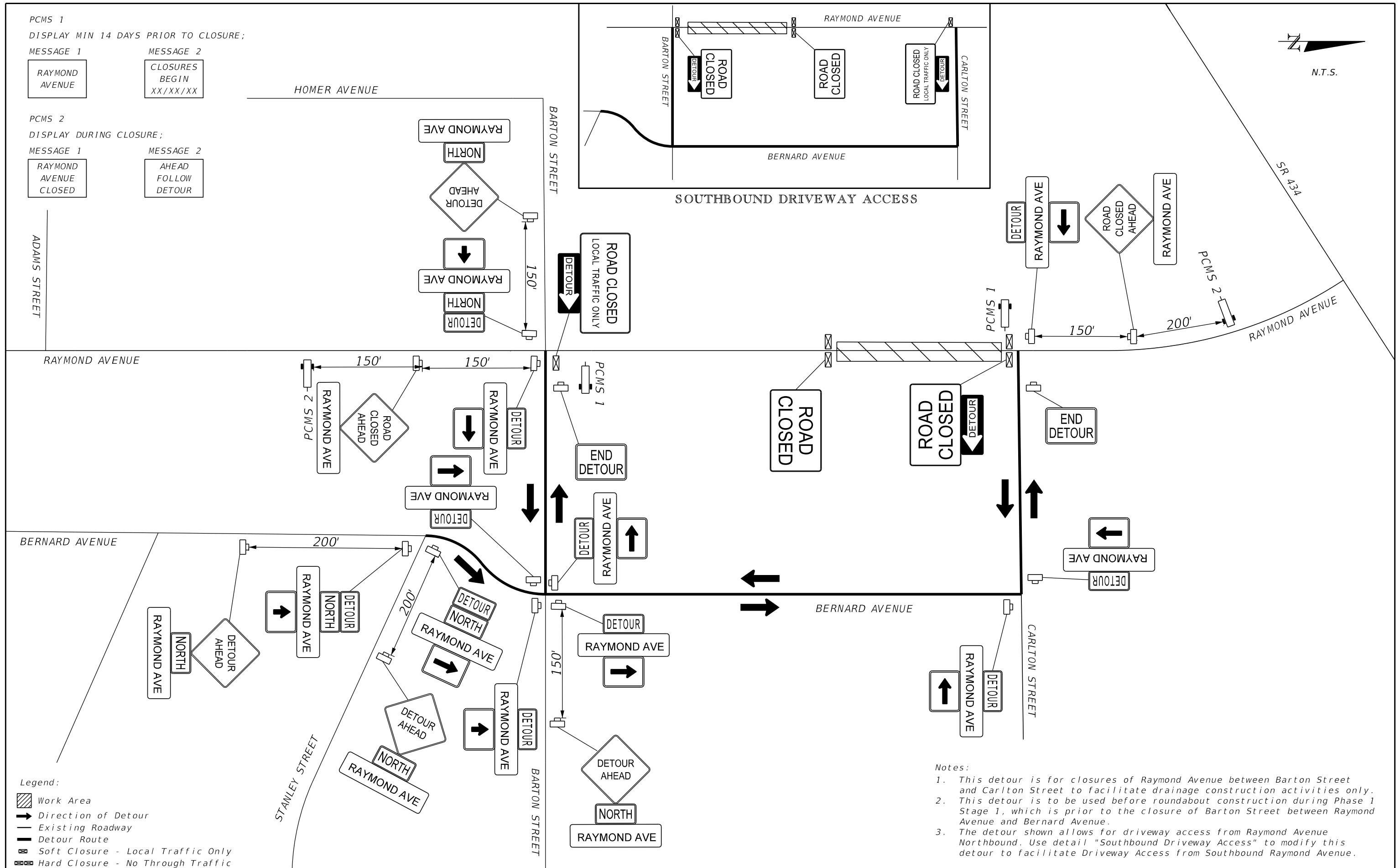
MESSAGE 1
 RAYMOND AVENUE

MESSAGE 2
 CLOSURES BEGIN
 XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;

MESSAGE 1
 RAYMOND AVENUE CLOSED

MESSAGE 2
 AHEAD FOLLOW DETOUR



- Legend:
- Work Area
 - Direction of Detour
 - Existing Roadway
 - Detour Route
 - Soft Closure - Local Traffic Only
 - Hard Closure - No Through Traffic

- Notes:
1. This detour is for closures of Raymond Avenue between Barton Street and Carlton Street to facilitate drainage construction activities only.
 2. This detour is to be used before roundabout construction during Phase 1 Stage 1, which is prior to the closure of roundabout of Barton Street between Raymond Avenue and Bernard Avenue.
 3. The detour shown allows for driveway access from Raymond Avenue Northbound. Use detail "Southbound Driveway Access" to modify this detour to facilitate Driveway Access from Southbound Raymond Avenue.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
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 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



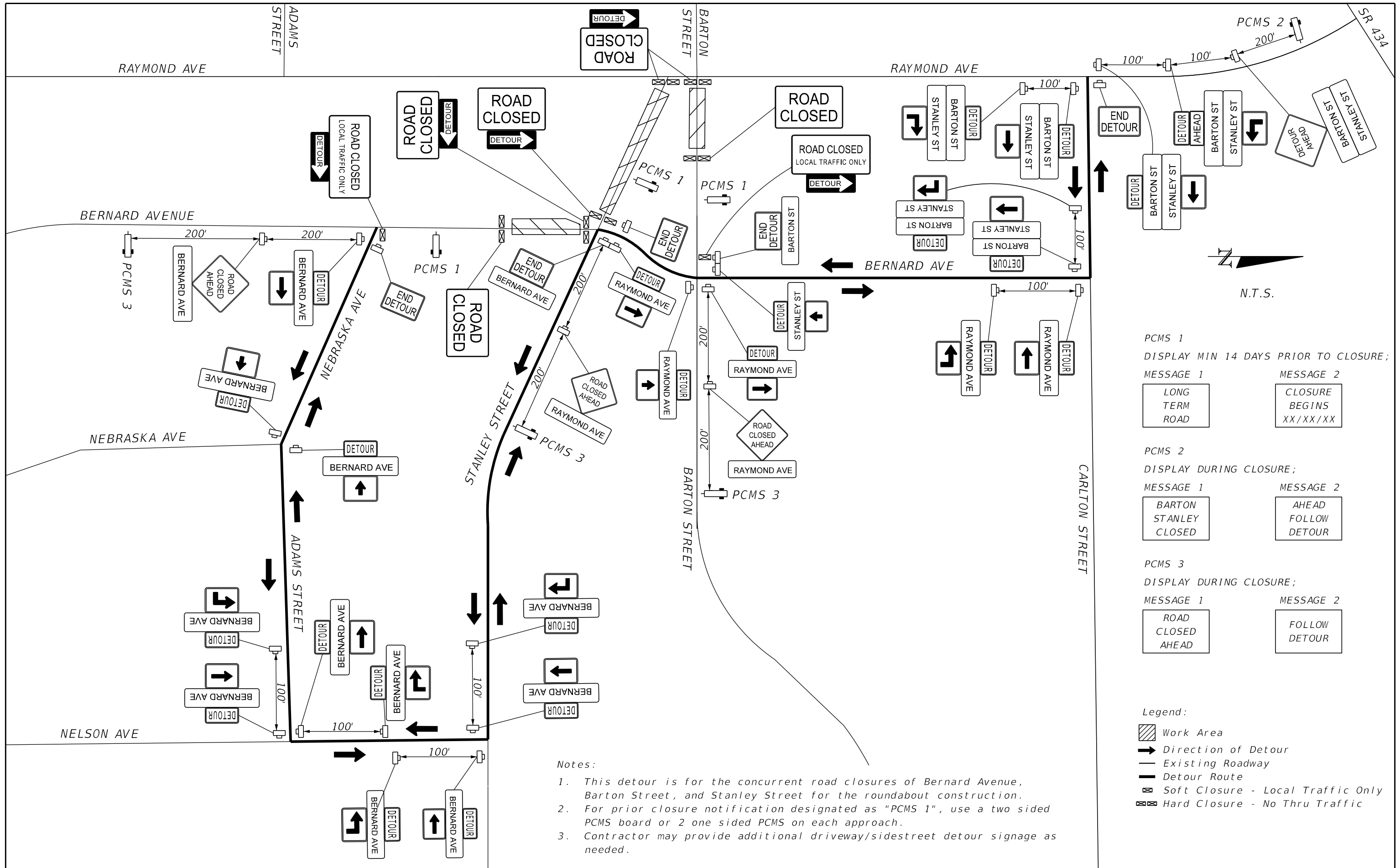
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PHASE 1 STAGE 1
 RAYMOND AVENUE
 DETOUR 1

SHEET NO.
 326

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



PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;
 MESSAGE 1
 LONG TERM ROAD
 MESSAGE 2
 CLOSURE BEGINS XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;
 MESSAGE 1
 BARTON STANLEY CLOSED
 MESSAGE 2
 AHEAD FOLLOW DETOUR

PCMS 3
 DISPLAY DURING CLOSURE;
 MESSAGE 1
 ROAD CLOSED AHEAD
 MESSAGE 2
 FOLLOW DETOUR

Legend:
 Work Area
 Direction of Detour
 Existing Roadway
 Detour Route
 Soft Closure - Local Traffic Only
 Hard Closure - No Thru Traffic

- Notes:
1. This detour is for the concurrent road closures of Bernard Avenue, Barton Street, and Stanley Street for the roundabout construction.
 2. For prior closure notification designated as "PCMS 1", use a two sided PCMS board or 2 one sided PCMS on each approach.
 3. Contractor may provide additional driveway/sidestreet detour signage as needed.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

PHASE 1 STAGE 1
 ROUNDABOUT CONSTRUCTION
 DETOUR 2

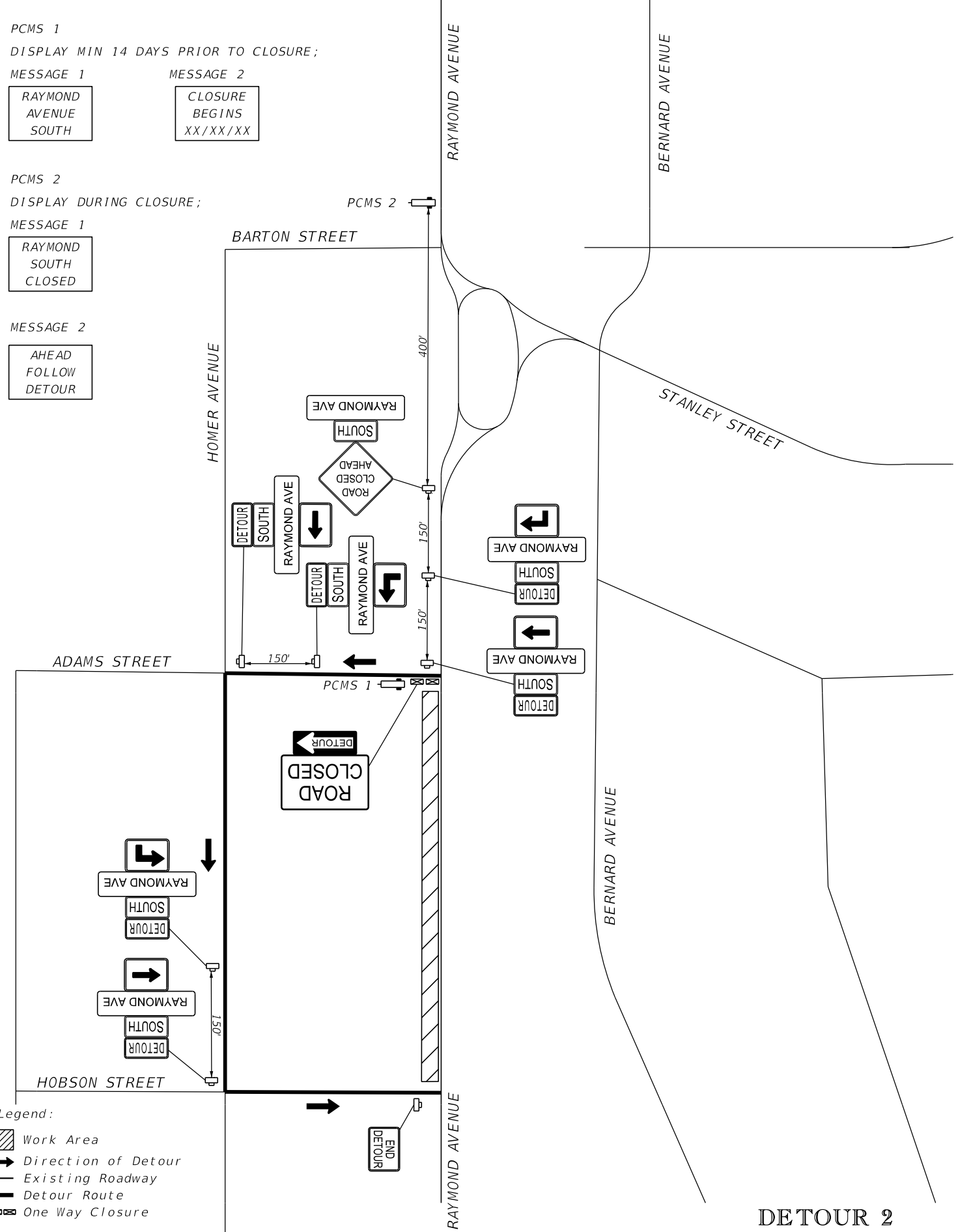
SHEET NO.
 327

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

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;
 MESSAGE 1
 RAYMOND AVENUE SOUTH
 MESSAGE 2
 CLOSURE BEGINS XX/XX/XX

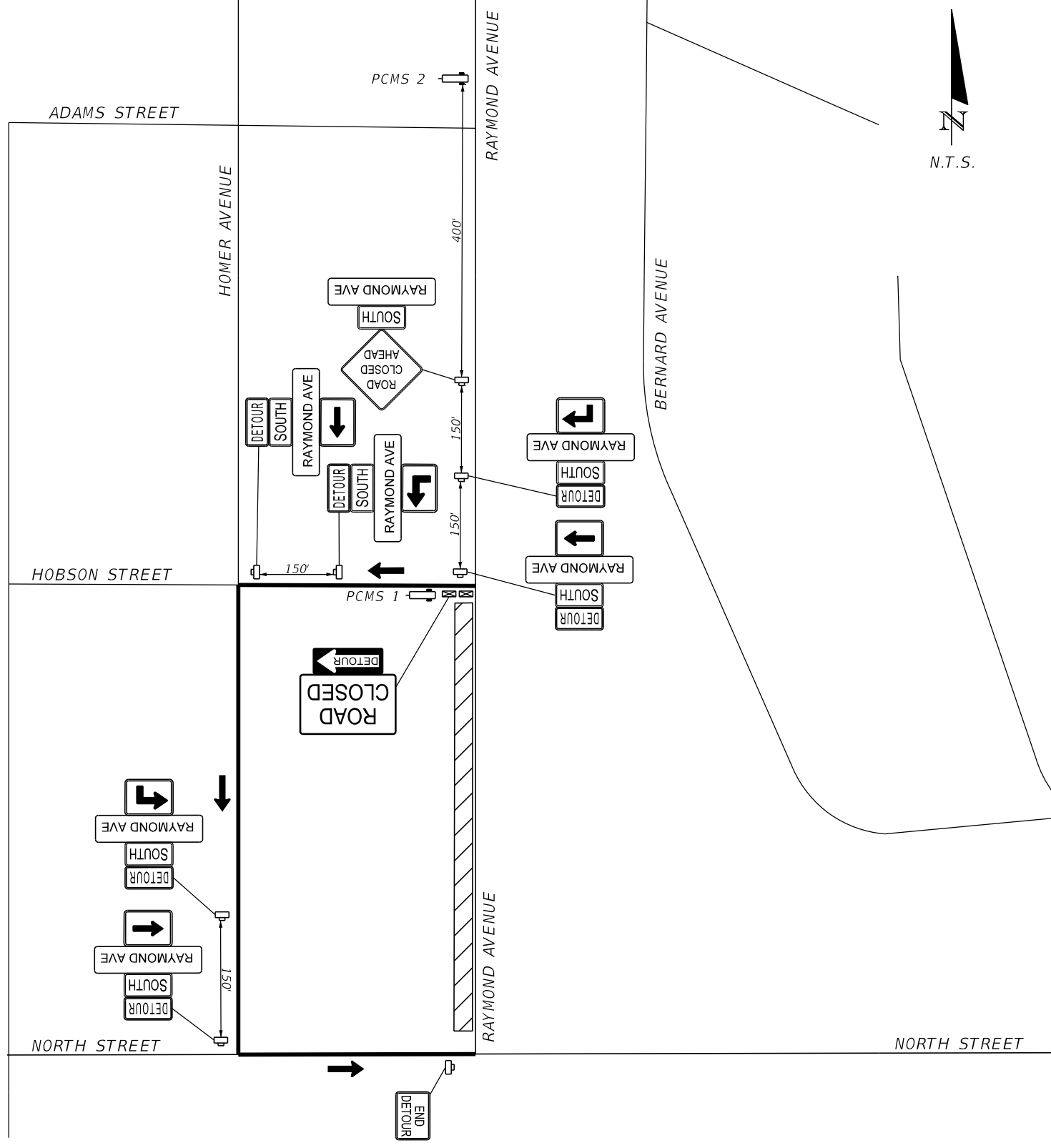
PCMS 2
 DISPLAY DURING CLOSURE;
 MESSAGE 1
 RAYMOND SOUTH CLOSED

MESSAGE 2
 AHEAD FOLLOW DETOUR



DETOUR 2

Legend:
 [Hatched Box] Work Area
 [Arrow] Direction of Detour
 [Solid Line] Existing Roadway
 [Dashed Line] Detour Route
 [Box with X] One Way Closure



DETOUR 3

- Notes:
1. Use this detour for one way closure of Raymond Avenue for curb and asphalt construction during Phase 1 Stage 4.
 2. This detour has two steps for the construction of curb and asphalt reduction to be done in segments.
 3. Step 1 closes Raymond Avenue Southbound from Adams Street to Hobson Street.
 4. Step 2 closes Raymond Avenue Southbound from Hobson Street to North Street.
 5. Contractor may provide additional driveway/sidestreet detour signage as needed.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PHASE 1 STAGE 4
 RAYMOND AVENUE
 DETOUR 2 & 3

SHEET NO.
 328

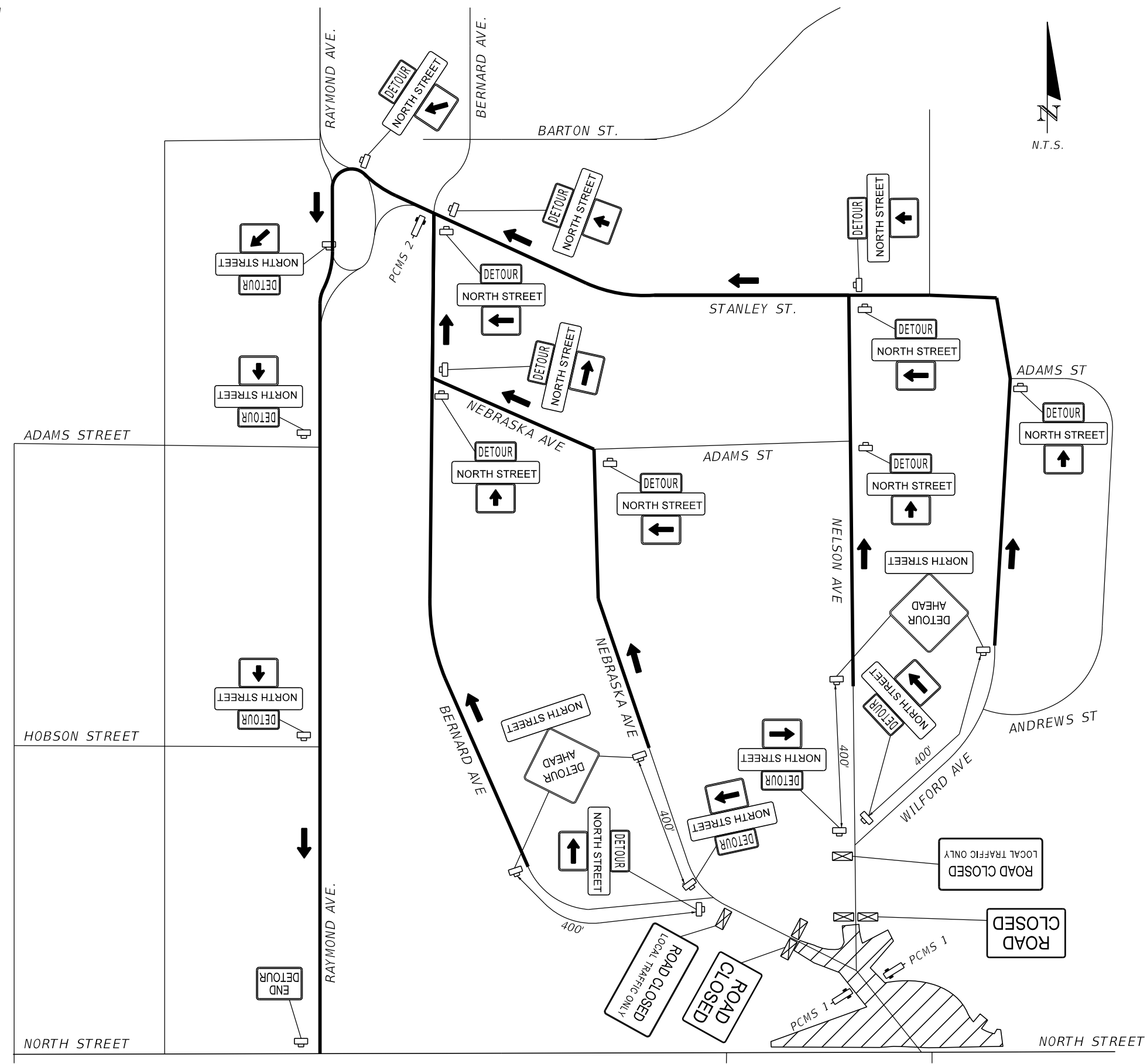
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

PCMS 1
 DISPLAY MIN ONE WEEK PRIOR TO CLOSURE;
 MESSAGE 1
 NELSON AVENUE CLOSURE
 MESSAGE 2
 BEGINS XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;
 MESSAGE 1
 NELSON AVENUE CLOSED
 MESSAGE 2
 FOLLOW DETOUR

I-4

I-4



Notes:
 1. This detour is to be used during the Phase 2 Stage 2 North Street access closure for construction activities.
 2. Contractor may provide additional driveway/sidestreet detour signage as needed.

Legend:
 [Hatched Box] Work Area
 [Arrow] Direction of Detour
 [Solid Line] Existing Roadway and New Ramp
 [Thick Line] Detour Route
 [Crossed Box] Hard Closure - No Thru Traffic
 [Box with 'X'] Soft Closure - Local Traffic Only

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

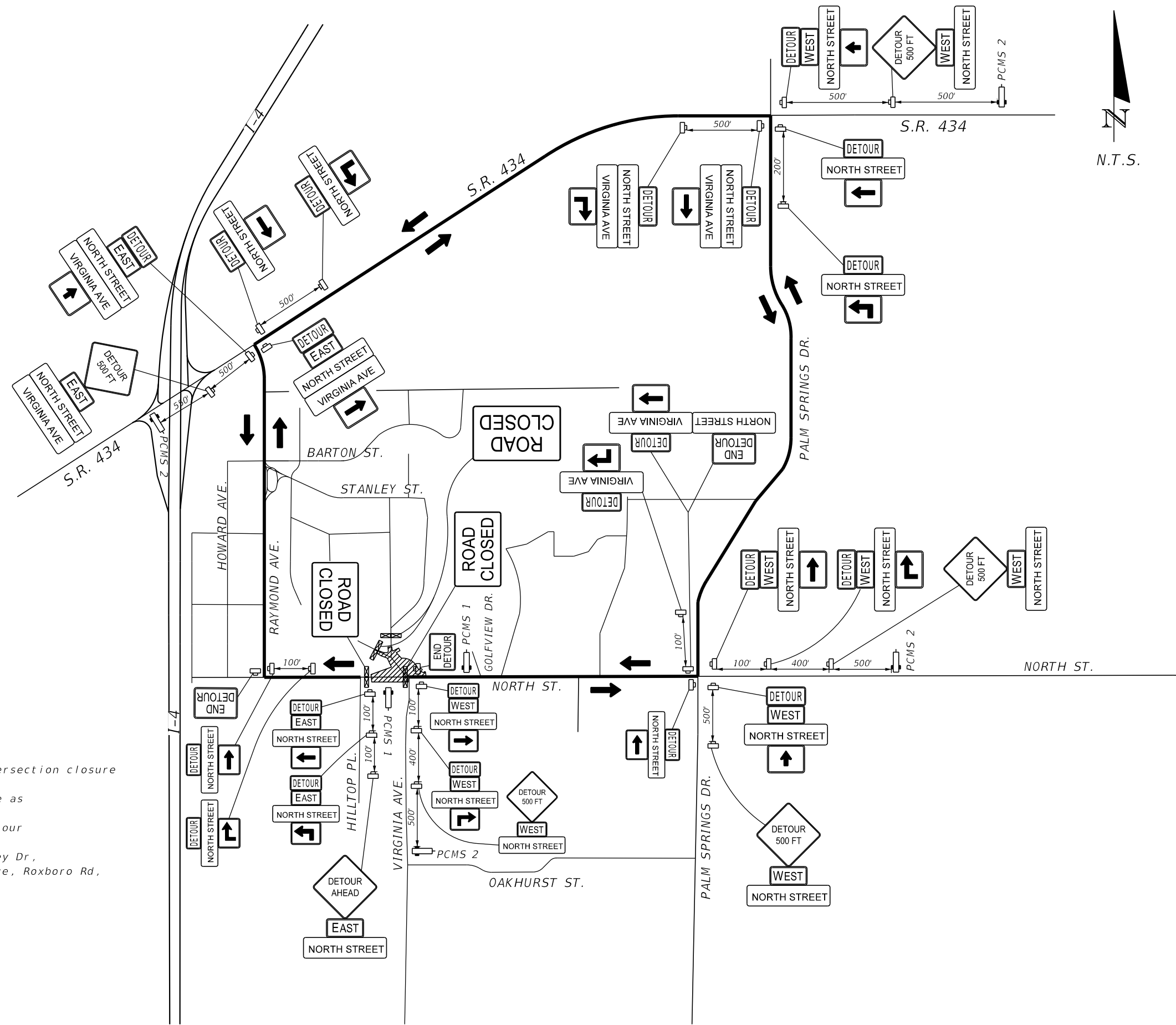
PHASE 2 STAGE 2
 NORTH STREET
 DETOUR (1)

SHEET NO.
 329

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

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;
 MESSAGE 1 NORTH STREET NIGHTLY
 MESSAGE 2 CLOSURES BEGIN XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;
 MESSAGE 1 NORTH STREET CLOSED
 MESSAGE 2 AHEAD FOLLOW DETOUR



- Notes:
1. This detour is to be used during the Phase 2 Stage 3 intersection closure for construction activities.
 2. Contractor may provide additional driveway detour signage as needed.
 3. Use through detour signage at all cross streets along detour route. (Sidestreets include: Country Club Dr, Nelson Ave, Blackwood Ave, Adams St, Barton St, Carlton St, Oak Valley Dr, Hobson St, Arden St, Stanley St, Orlando Ave, Lakeland Ave, Roxboro Rd, Waverly Way)

- Legend:
- Work Area
 - Direction of Detour
 - Existing Roadway and New Ramp
 - Detour Route
 - Hard Closure - No Thru Traffic
 - Soft Closure - Local Traffic Only

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

PHASE 2 STAGE 3
 NORTH STREET
 DETOUR (2)
 SHEET NO. 330

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

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;

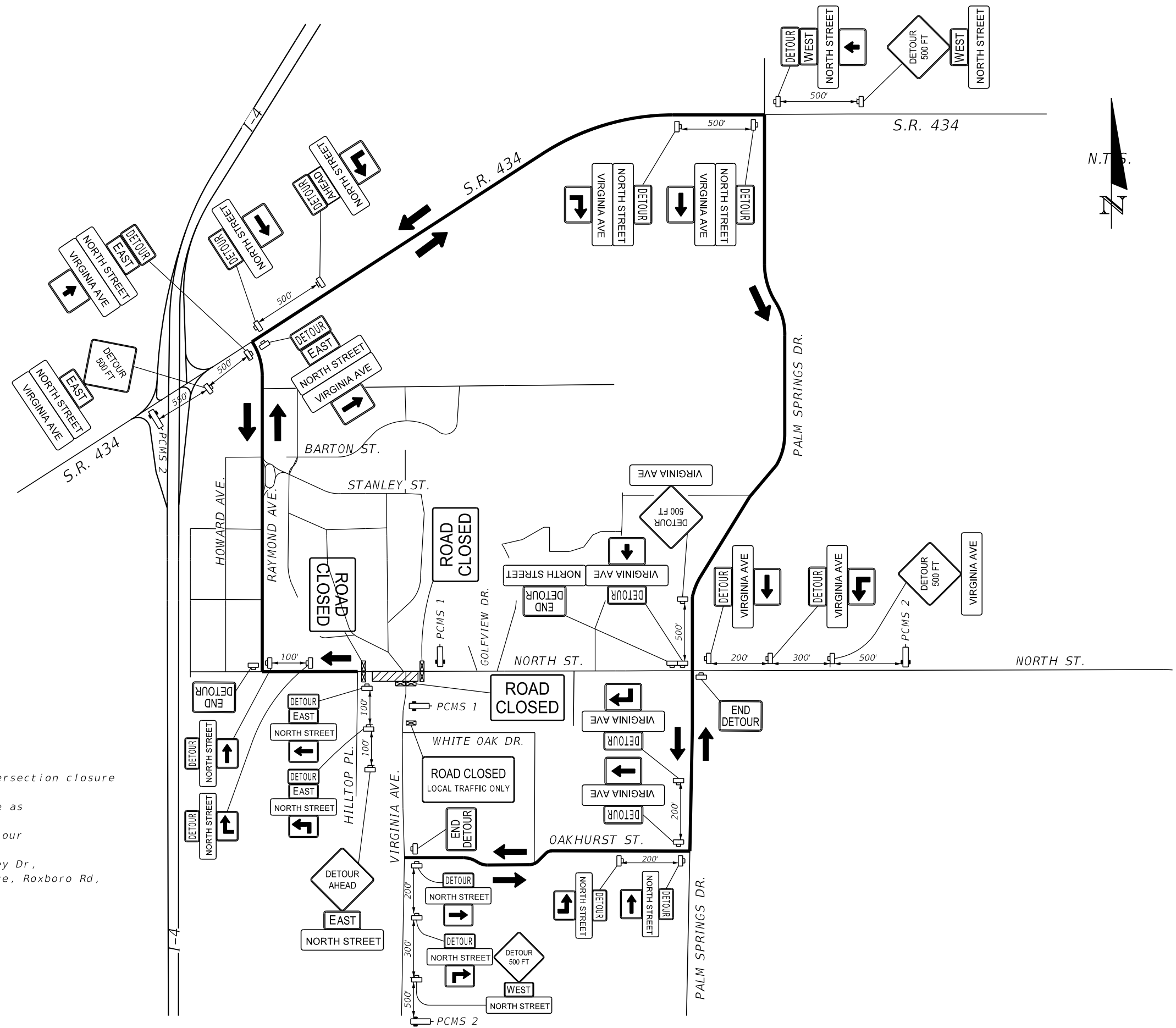
MESSAGE 1
 VIRGINIA AVENUE CLOSURE

MESSAGE 2
 BEGINS XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;

MESSAGE 1
 VIRGINIA AVENUE CLOSED

MESSAGE 2
 AHEAD FOLLOW DETOUR



- Notes:
1. This detour is to be used during the Phase 2 Stage 4 intersection closure for construction activities.
 2. Contractor may provide additional driveway detour signage as needed.
 3. Use through detour signage at all cross streets along detour route. (Sidestreets include: Country Club Dr, Nelson Ave, Blackwood Ave, Adams St, Barton St, Carlton St, Oak Valley Dr, Hobson St, Arden St, Stanley St, Orlando Ave, Lakeland Ave, Roxboro Rd, Waverly Way)

- Legend:
- Work Area
 - Direction of Detour
 - Existing Roadway and New Ramp
 - Detour Route
 - Hard Closure - No Thru Traffic
 - Soft Closure - Local Traffic Only

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PHASE 2 STAGE 4
 NORTH STREET
 DETOUR (3)

SHEET NO.
 331

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

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;

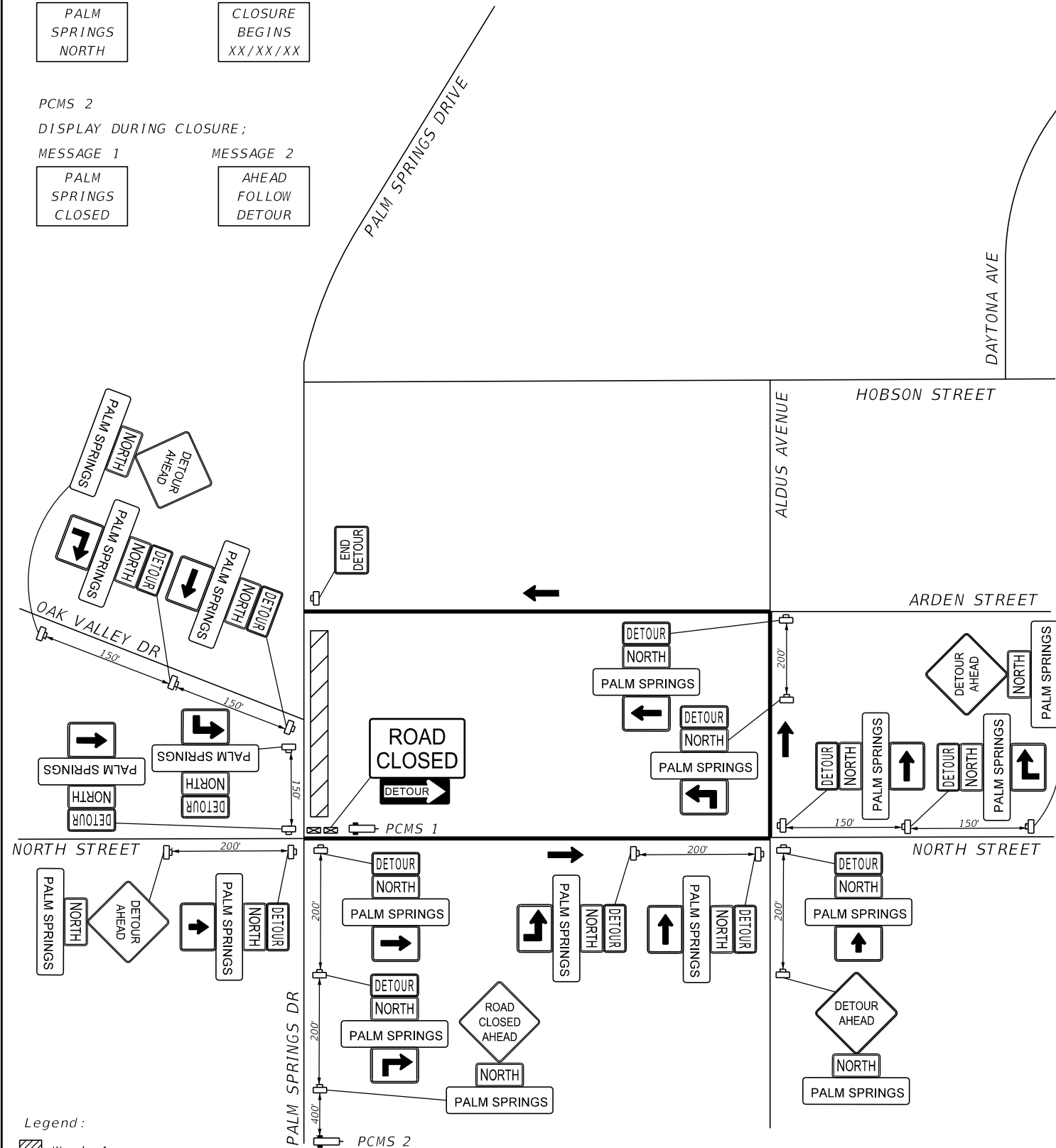
MESSAGE 1
 PALM SPRINGS NORTH

MESSAGE 2
 CLOSURE BEGINS
 XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;

MESSAGE 1
 PALM SPRINGS CLOSED

MESSAGE 2
 AHEAD FOLLOW
 DETOUR



Legend:

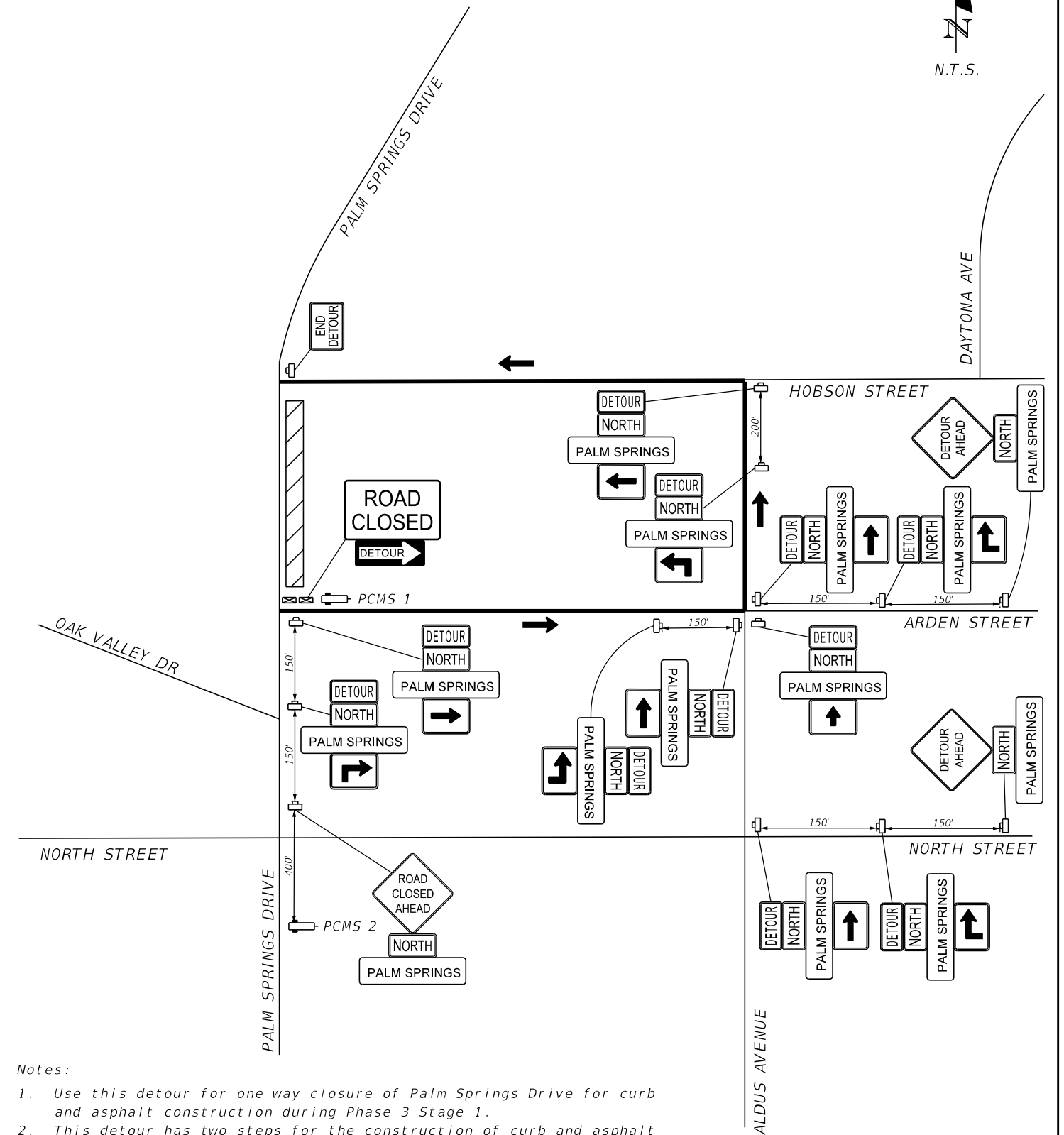
- Work Area
- Direction of Detour
- Existing Roadway and New Ramp
- Detour Route
- One Way Closure

DETOUR 1

Notes:

1. Use this detour for one way closure of Palm Springs Drive for curb and asphalt construction during Phase 3 Stage 1.
2. This detour has two steps for the construction of curb and asphalt reduction to be done in segments.
3. Detour 1 closes Palm Springs Drive from North Street to Arden Street.
4. Detour 2 closes Palm Springs Drive from Arden Street to Hobson Street.
5. Contractor may provide additional driveway/sidestreet detour signage as needed.

DETOUR 2



N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



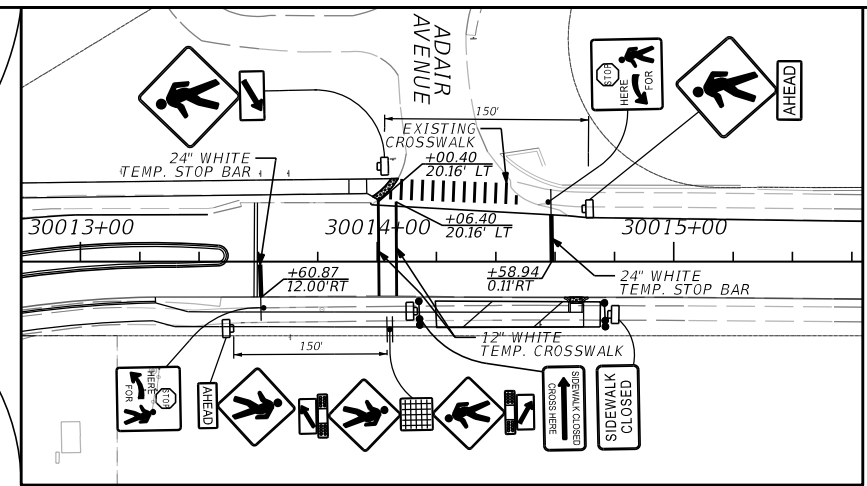
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

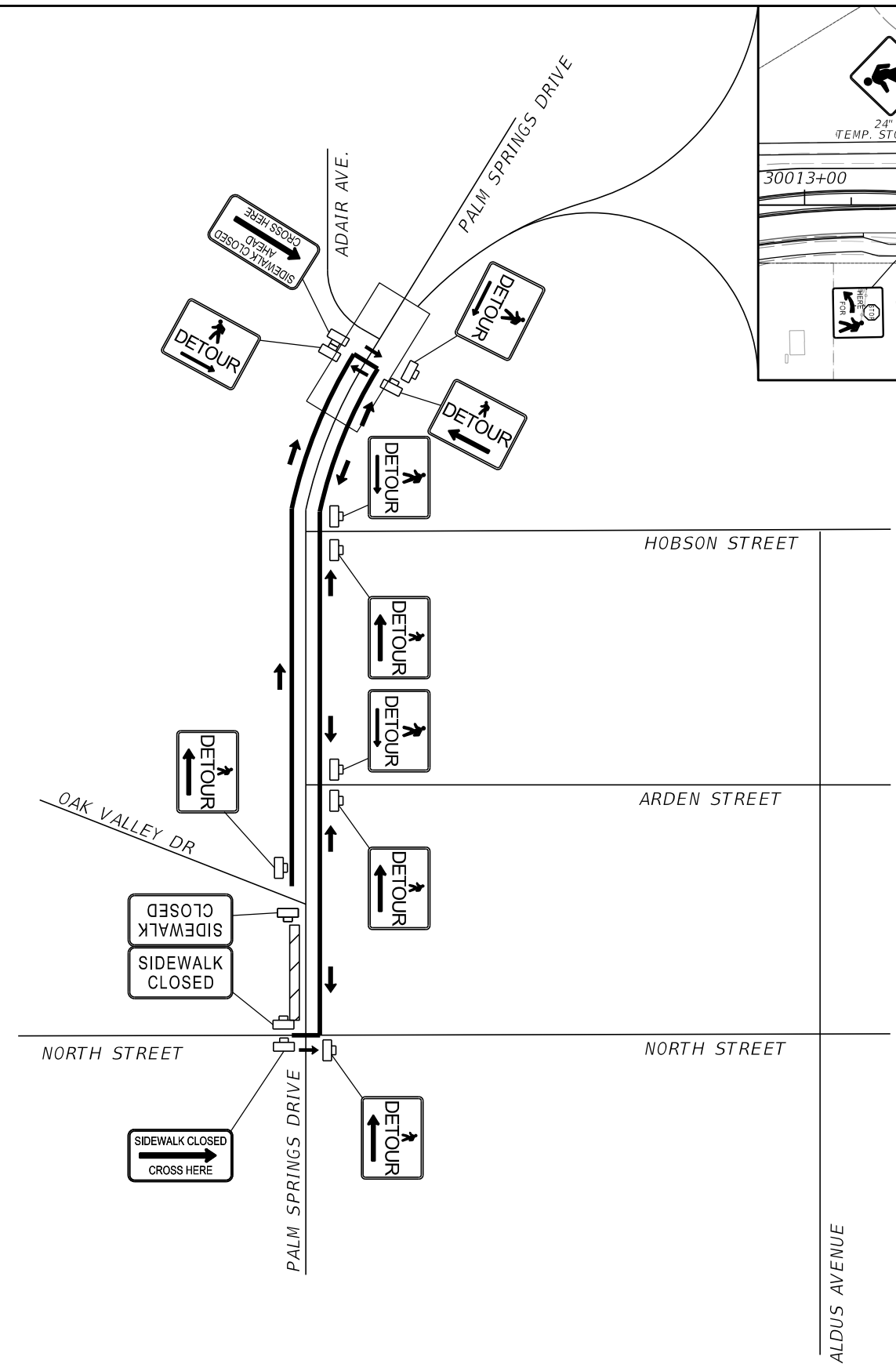
PHASE 3 STAGE 1 STEP 2
 PALM SPRINGS DR.
 DETOUR 1 & 2

SHEET NO.
 332

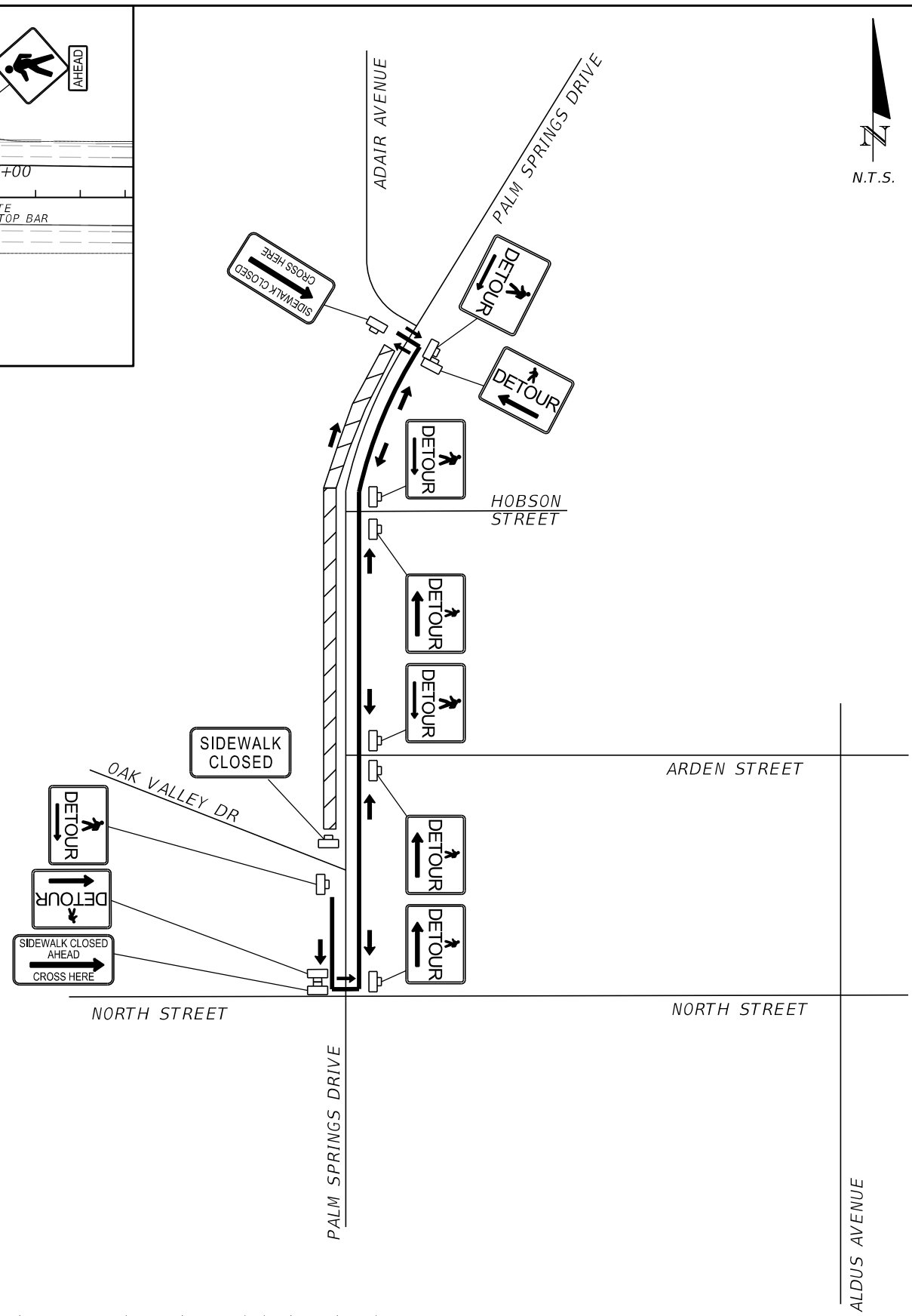
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MID-BLOCK
CROSSWALK DETAIL



DETOUR 1




DETOUR 2

- Notes:
1. This Pedestrian Detour is to be used during the Phase 3 Stage 1 Step 1 intermittent sidewalk repair.
 2. Temporary mid-block crosswalk is to be constructed prior to detour implementation.
 3. Contractor may provide additional driveway detour signage as needed.

- Work Area
- Direction of Detour
- Existing Roadway
- Detour Route

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



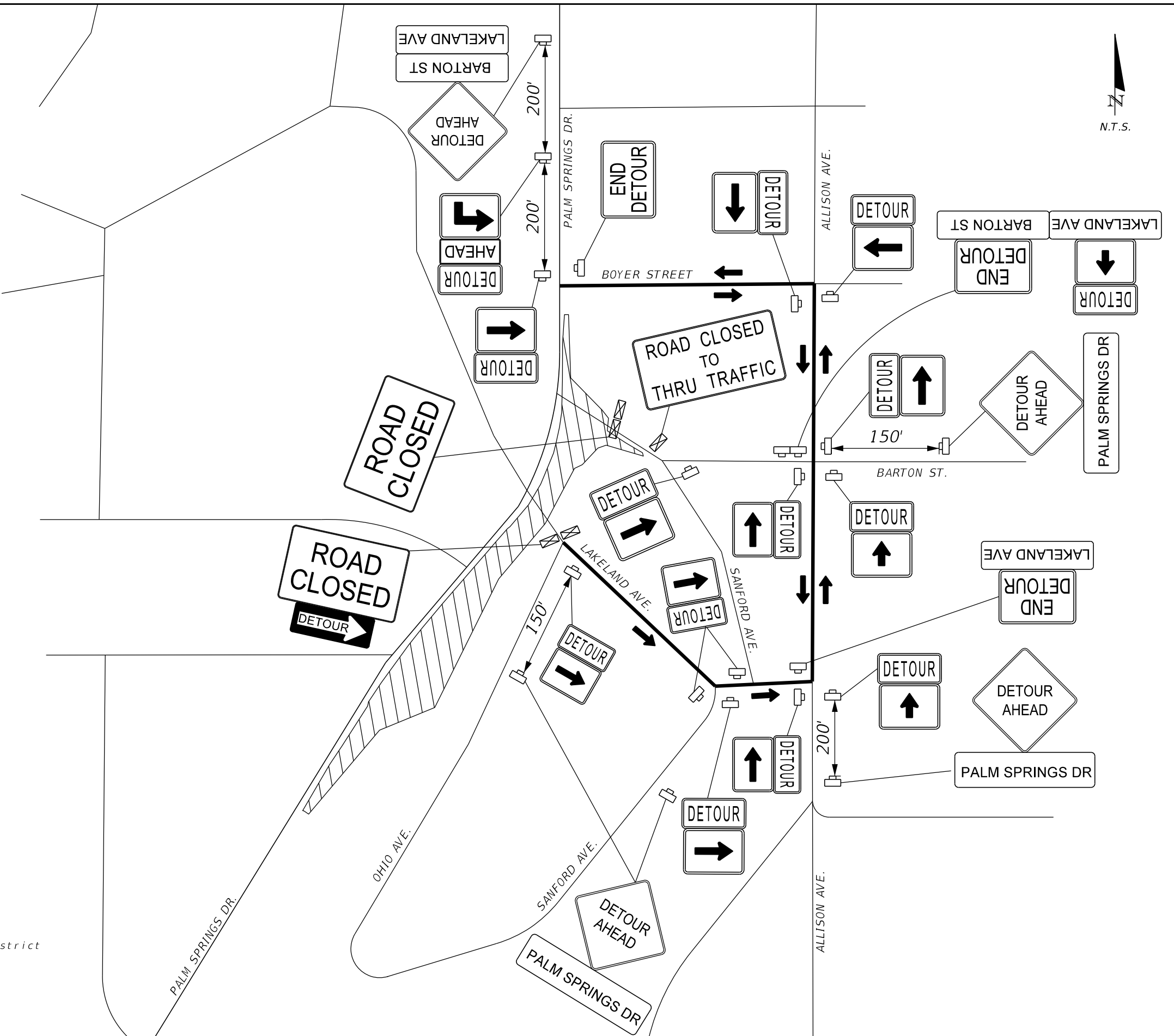
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PHASE 3 STAGE 1 STEP 1
 PEDESTRIAN DETOUR

SHEET NO.
 333

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



- Legend:
- Work Area
 - Direction of Detour
 - Existing Roadway and New Ramp
 - Detour Route
 - Hard Closure - No Thru Traffic
 - Soft Closure - Local Traffic Only

- Notes:
1. This detour is to be used during Phase 3 Stage 2 Step 1 to restrict access to Palm Springs Drive, and construct new access roads to future roundabout.
 2. Provide driveway detour signage as needed.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PHASE 3 STAGE 2 STEP 1
 PALM SPRINGS DR.
 ACCESS DETOUR (1)

SHEET NO.
 334

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

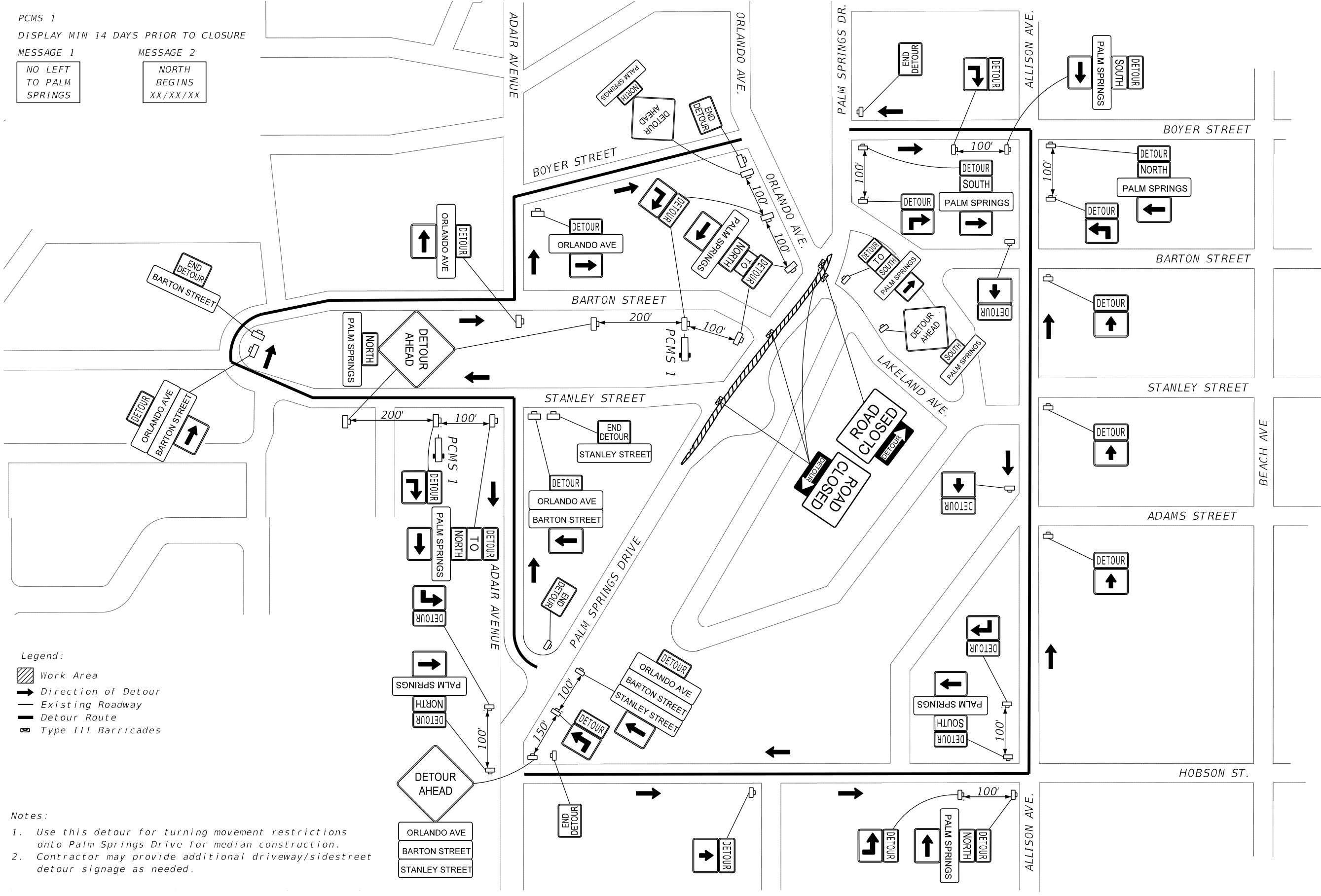
PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE

MESSAGE 1

NO LEFT
 TO PALM
 SPRINGS

MESSAGE 2

NORTH
 BEGINS
 XX/XX/XX



- Legend:
- Work Area
 - Direction of Detour
 - Existing Roadway
 - Detour Route
 - Type III Barricades

- Notes:
1. Use this detour for turning movement restrictions onto Palm Springs Drive for median construction.
 2. Contractor may provide additional driveway/sidestreet detour signage as needed.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

PHASE 3 STAGE 2 STEP 2
 PALM SPRINGS DR.
 DETOUR (1)

SHEET NO.
 335

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

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;

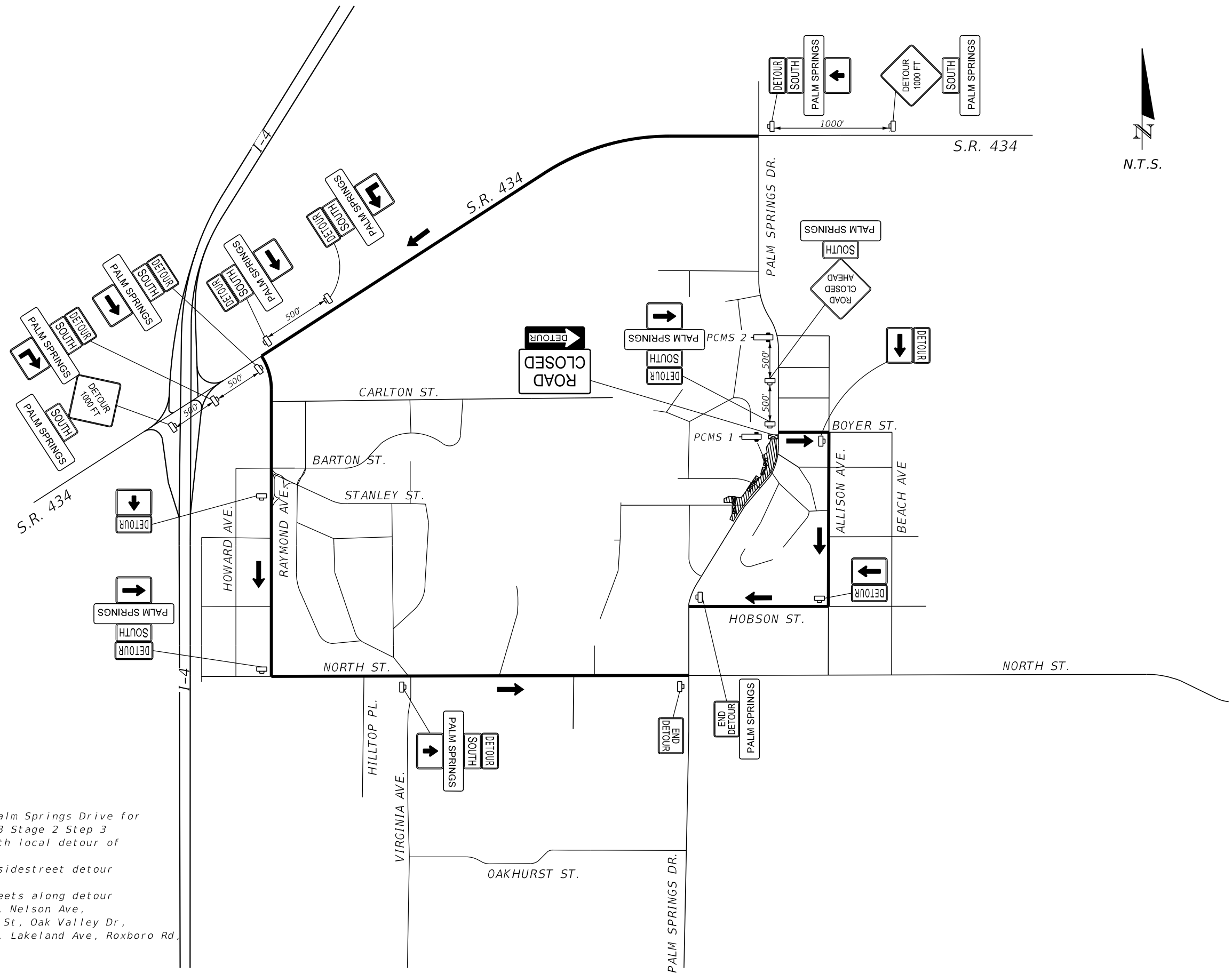
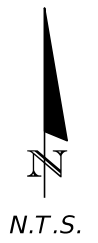
MESSAGE 1
 PALM SPRINGS SOUTH

MESSAGE 2
 CLOSURE BEGINS
 XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;

MESSAGE 1
 PALM SPRINGS SOUTH

MESSAGE 2
 CLOSED FOLLOW
 DETOUR



- Legend:
- Work Area
 - Direction of Detour
 - Existing Roadway
 - Detour Route
 - Hard Closure - No Thru Traffic
 - Soft Closure - One Way Traffic Only

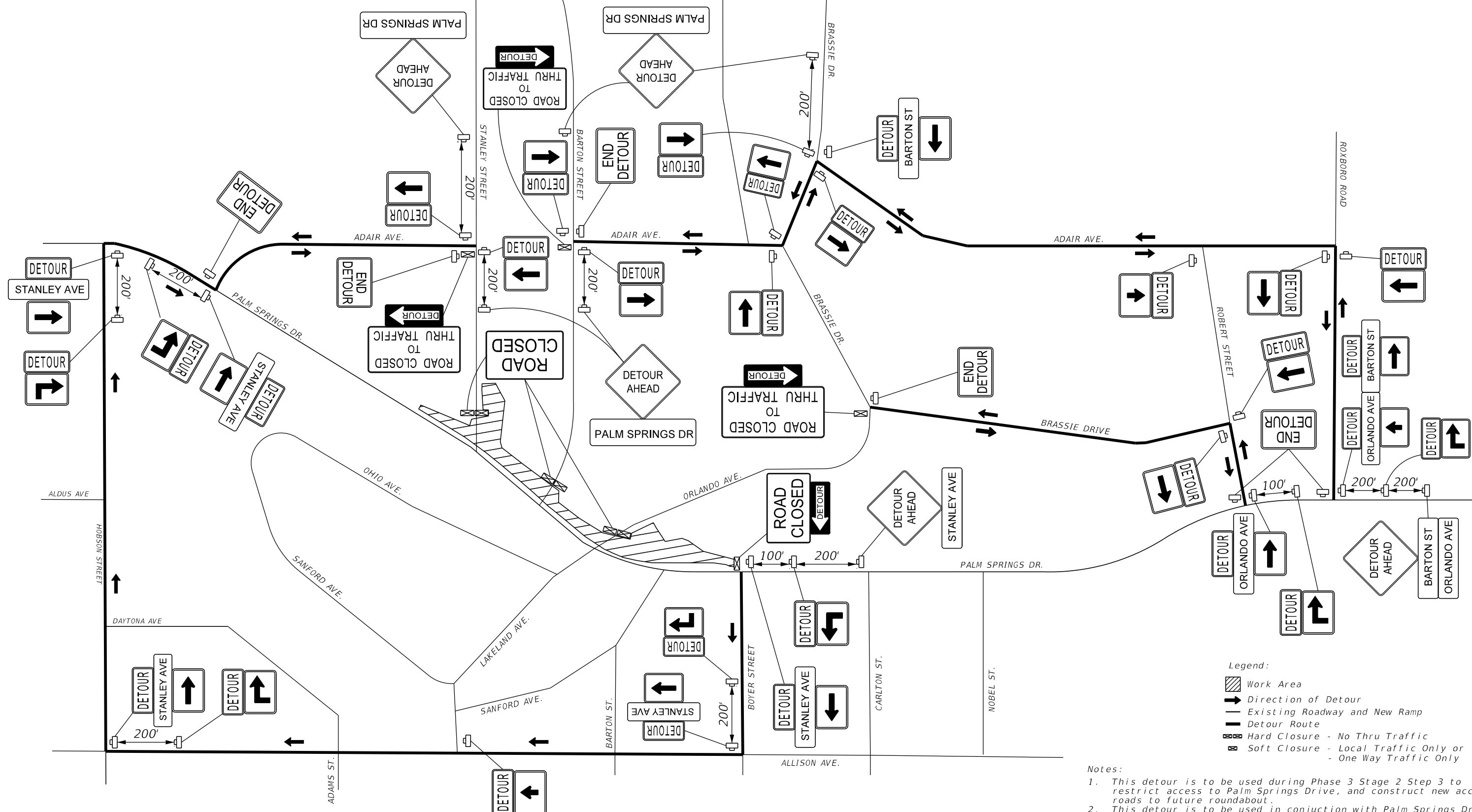
- Notes:
1. Use this detour for southbound closure of Palm Springs Drive for final construction activities during Phase 3 Stage 2 Step 3
 2. This detour is to be used in conjunction with local detour of Phase 3 Stage 2 Step 3 access closures.
 3. Contractor may provide additional driveway/sidestreet detour signage as needed.
 4. Use through detour signage at all cross streets along detour route. (Sidestreets include: Country Club Dr, Nelson Ave, Blackwood Ave, Adams St, Barton St, Carlton St, Oak Valley Dr, Hobson St, Arden St, Raymond Ave Roundabout, Lakeland Ave, Roxboro Rd, Waverly Way).

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		PHASE 3 STAGE 2 STEP 3 PALM SPRINGS DR. DETOUR (3)	SHEET NO. 336
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		

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



N.T.S.



- Legend:**
- Work Area
 - Direction of Detour
 - Existing Roadway and New Ramp
 - Detour Route
 - Hard Closure - No Thru Traffic
 - Soft Closure - Local Traffic Only or One Way Traffic Only

- Notes:**
1. This detour is to be used during Phase 3 Stage 2 Step 3 to restrict access to Palm Springs Drive, and construct new access roads to future roundabout.
 2. This detour is to be used in conjunction with Palm Springs Dr. Detour 3, to restrict access to Palm Springs Dr.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



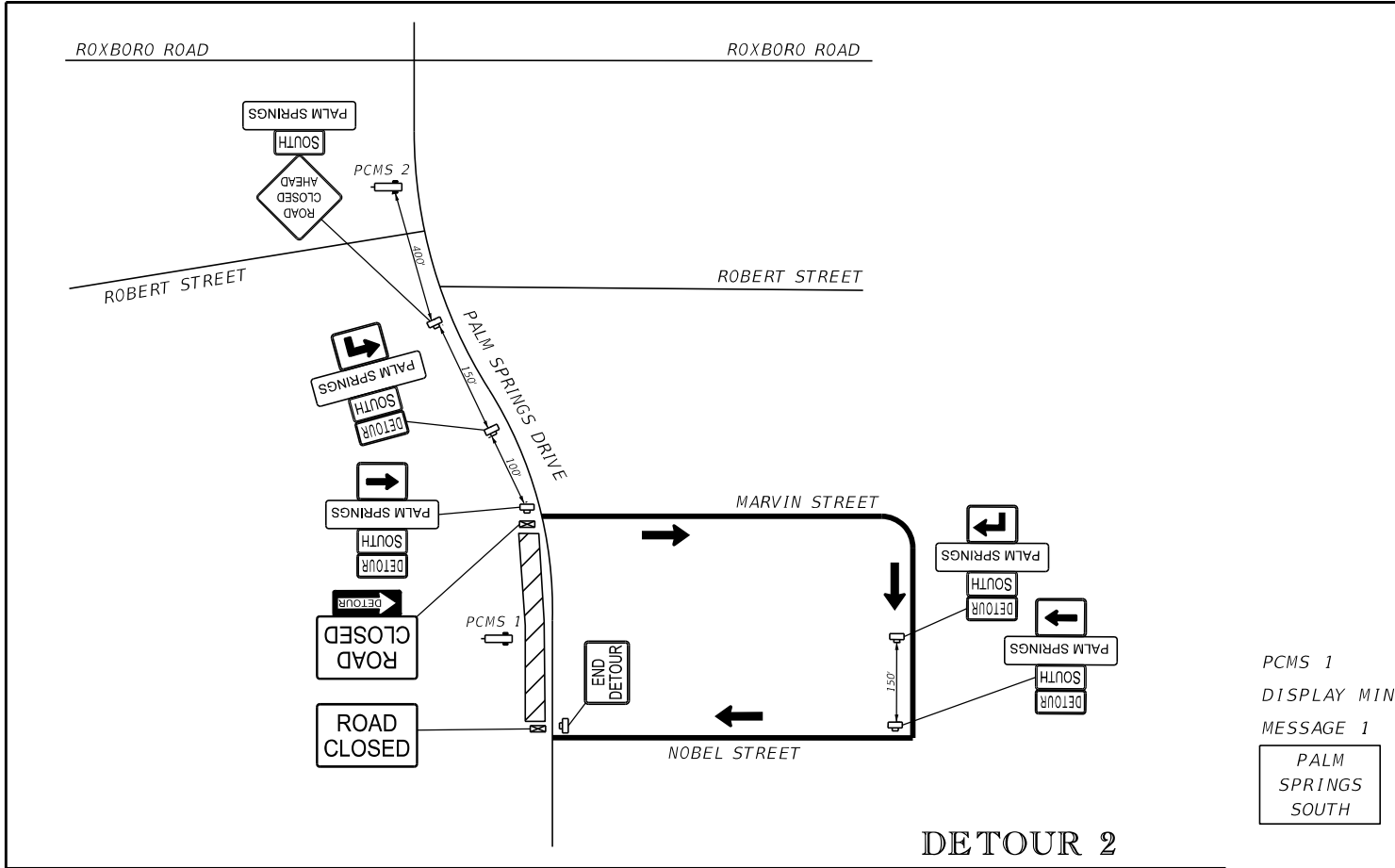
SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

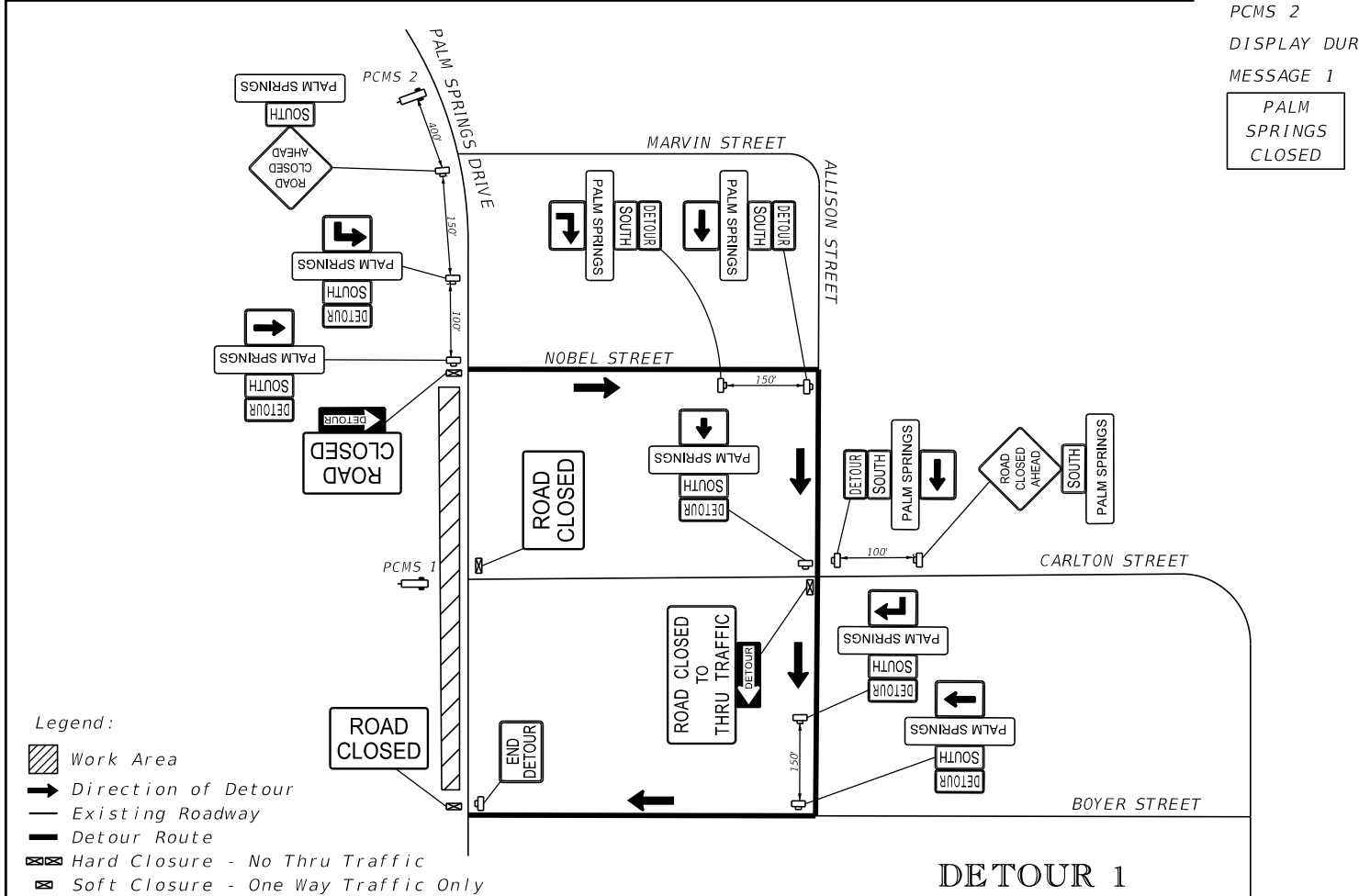
PHASE 3 STAGE 2 STEP 3
PALM SPRINGS DR.
ACCESS DETOUR (2)

SHEET NO.
337

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



DETOUR 2

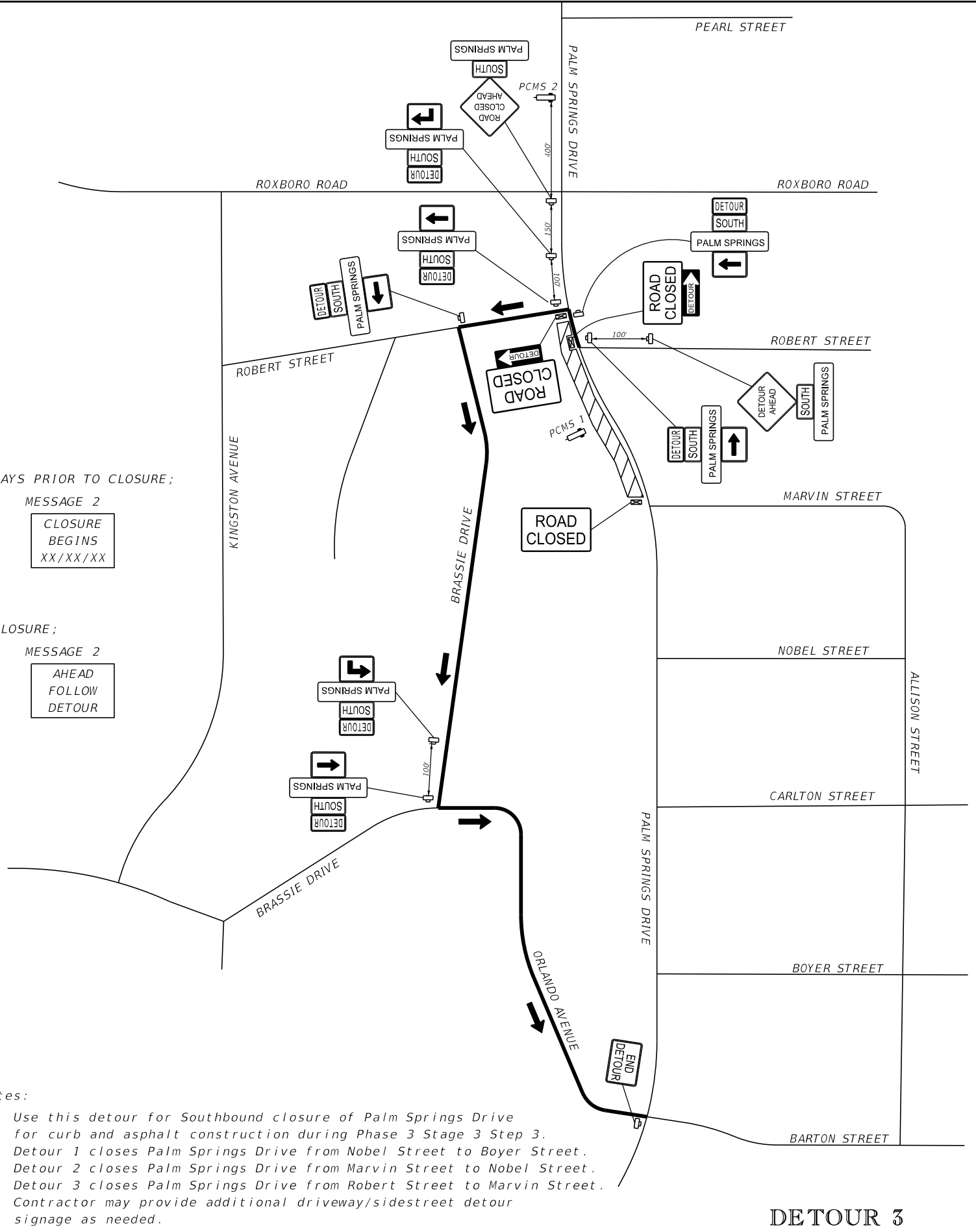


DETOUR 1

- Legend:**
- Work Area
 - Direction of Detour
 - Existing Roadway
 - Detour Route
 - Hard Closure - No Thru Traffic
 - Soft Closure - One Way Traffic Only

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;
 MESSAGE 1
 PALM SPRINGS SOUTH
 MESSAGE 2
 CLOSURE BEGINS XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;
 MESSAGE 1
 PALM SPRINGS CLOSED
 MESSAGE 2
 AHEAD FOLLOW DETOUR



DETOUR 3

- Notes:**
1. Use this detour for Southbound closure of Palm Springs Drive for curb and asphalt construction during Phase 3 Stage 3 Step 3.
 2. Detour 1 closes Palm Springs Drive from Nobel Street to Boyer Street.
 3. Detour 2 closes Palm Springs Drive from Marvin Street to Nobel Street.
 4. Detour 3 closes Palm Springs Drive from Robert Street to Marvin Street.
 5. Contractor may provide additional driveway/sidestreet detour signage as needed.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**PHASE 3 STAGE 3 STEP 3
 PALM SPRINGS DR.
 DETOUR 1, 2, & 3**

SHEET NO.
338

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PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;

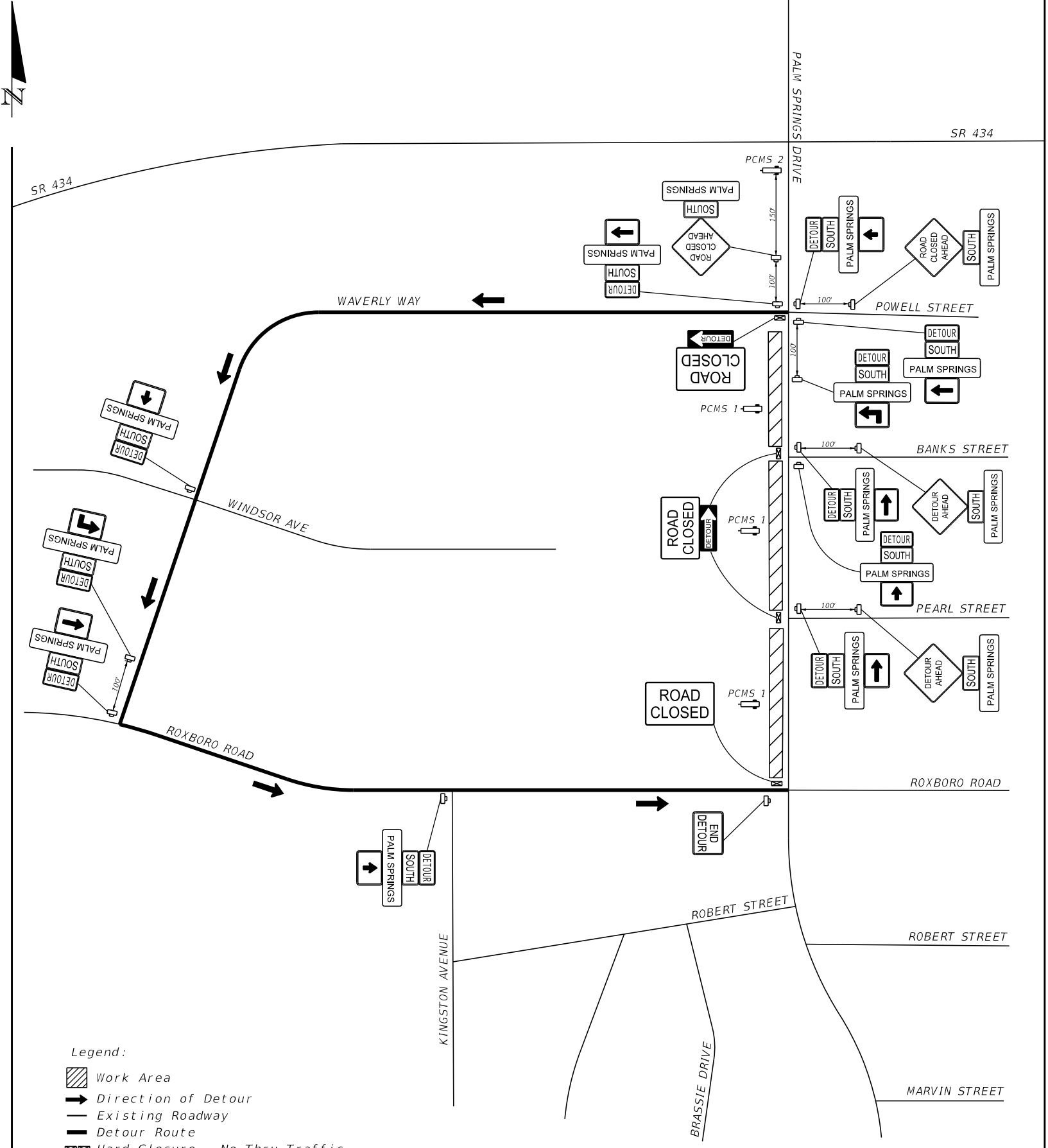
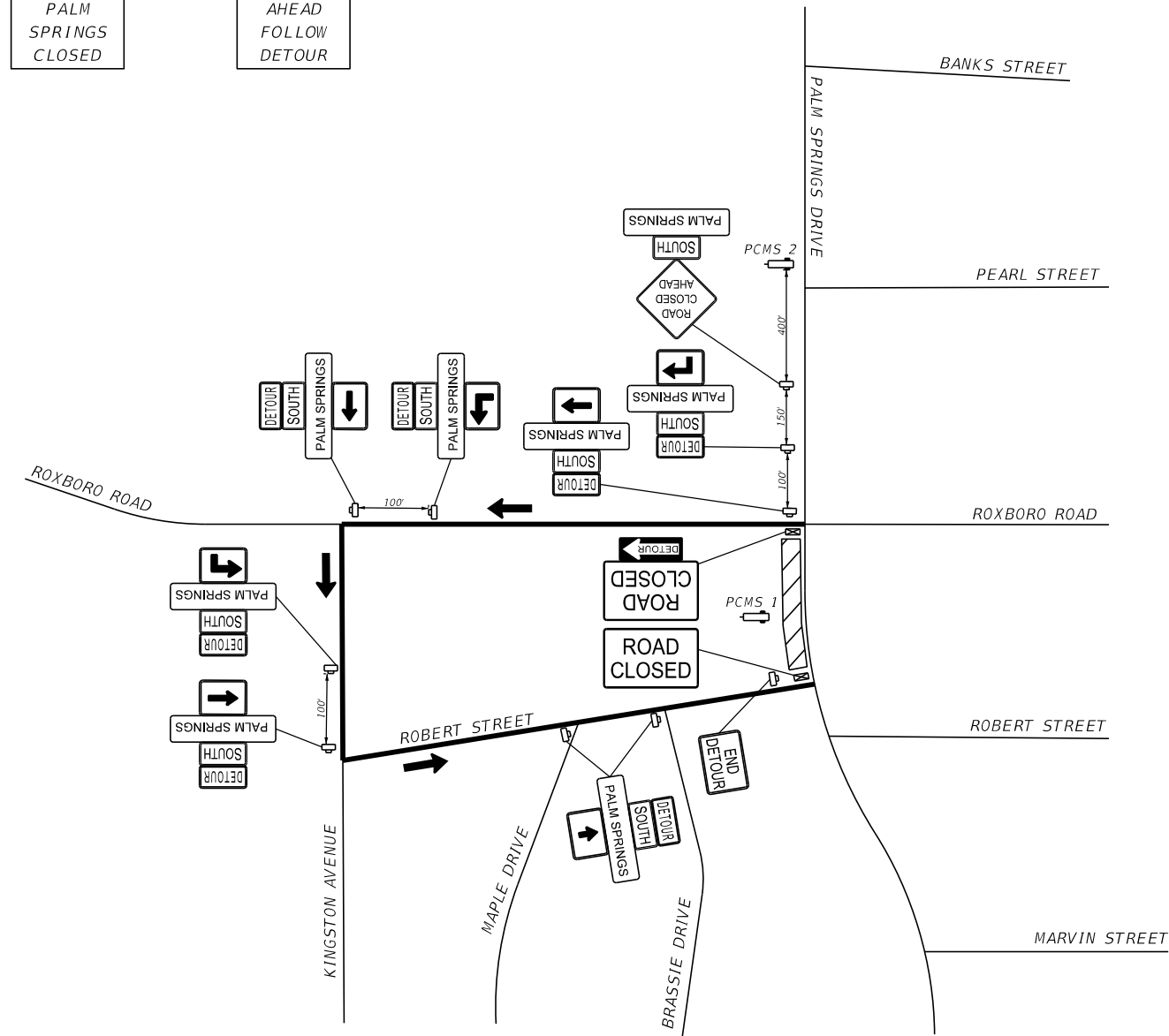
MESSAGE 1
 PALM SPRINGS SOUTH

MESSAGE 2
 CLOSURE BEGINS
 XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;

MESSAGE 1
 PALM SPRINGS CLOSED

MESSAGE 2
 AHEAD FOLLOW DETOUR



- Notes:
1. Use this detour for Southbound one way closure of Palm Springs Drive for curb and asphalt construction during Phase 3 Stage 3 Step 3.
 2. Detour 5 has three steps for the construction of curb and asphalt reduction to be done in segments.
 3. Segment 1 closes Palm Springs Drive from Roxboro Road to Pearl Street.
 4. Segment 2 closes Palm Springs Drive from Pearl Street to Banks Street.
 5. Segment 3 closes Palm Springs Drive from Banks Street to Waverly Way.
 5. Contractor may provide additional driveway/sidestreet detour signage as needed.

DETOUR 4

DETOUR 5

- Legend:
- Work Area
 - Direction of Detour
 - Existing Roadway
 - Detour Route
 - Hard Closure - No Thru Traffic
 - Soft Closure - One Way Traffic Only

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



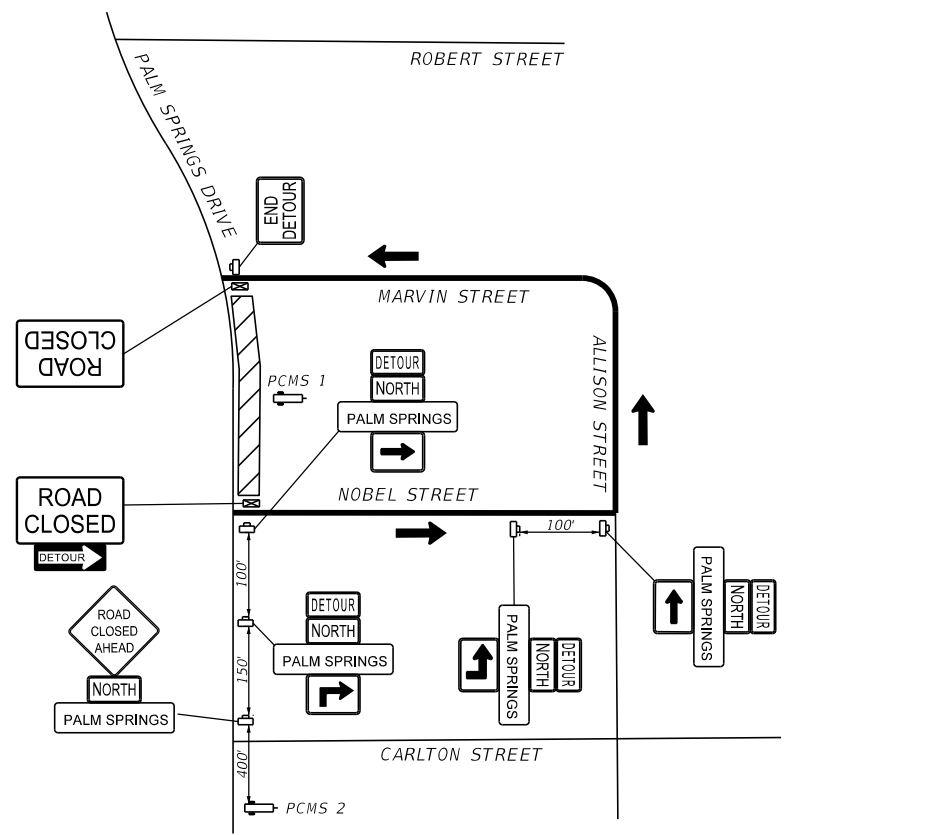
SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

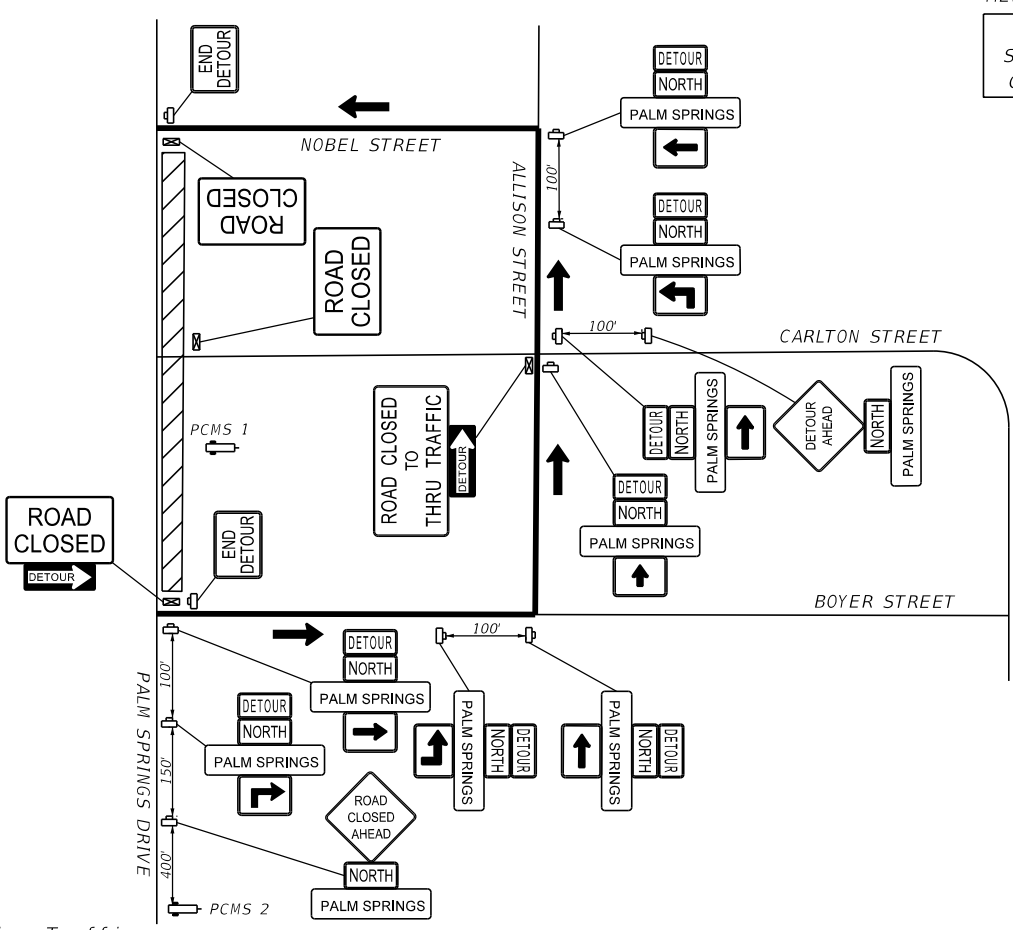
PHASE 3 STAGE 3 STEP 3
 PALM SPRINGS DR.
 DETOUR 4 & 5

SHEET NO.
 339

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DETOUR 4

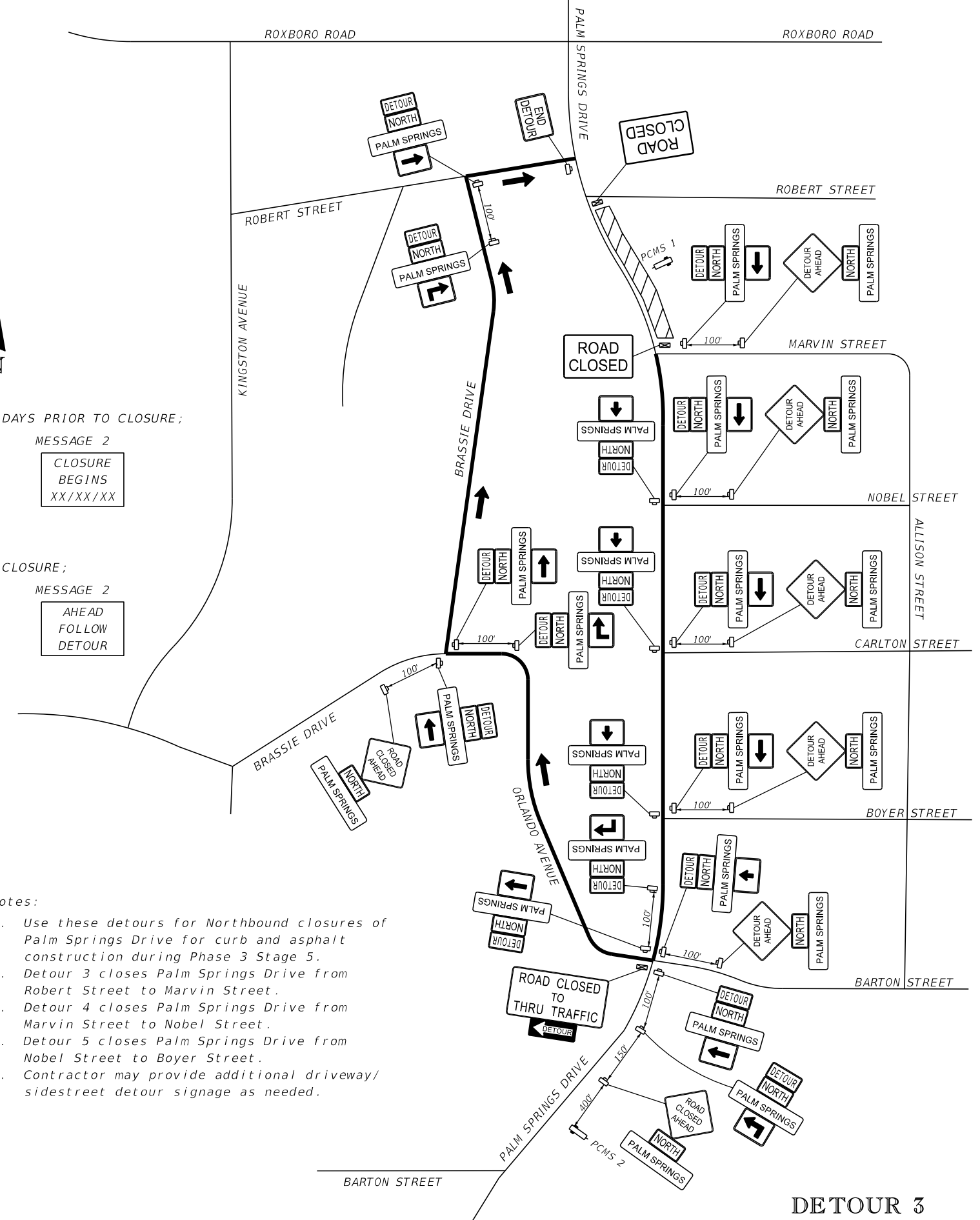


DETOUR 5

- Legend:**
- Work Area
 - Direction of Detour
 - Existing Roadway
 - Detour Route
 - Hard Closure - No Thru Traffic
 - Soft Closure - One Way Traffic Only

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;
 MESSAGE 1
 PALM SPRINGS NORTH
 MESSAGE 2
 CLOSURE BEGINS XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;
 MESSAGE 1
 PALM SPRINGS CLOSED
 MESSAGE 2
 AHEAD FOLLOW DETOUR



DETOUR 3

- Notes:**
1. Use these detours for Northbound closures of Palm Springs Drive for curb and asphalt construction during Phase 3 Stage 5.
 2. Detour 3 closes Palm Springs Drive from Robert Street to Marvin Street.
 3. Detour 4 closes Palm Springs Drive from Marvin Street to Nobel Street.
 4. Detour 5 closes Palm Springs Drive from Nobel Street to Boyer Street.
 5. Contractor may provide additional driveway/sidestreet detour signage as needed.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



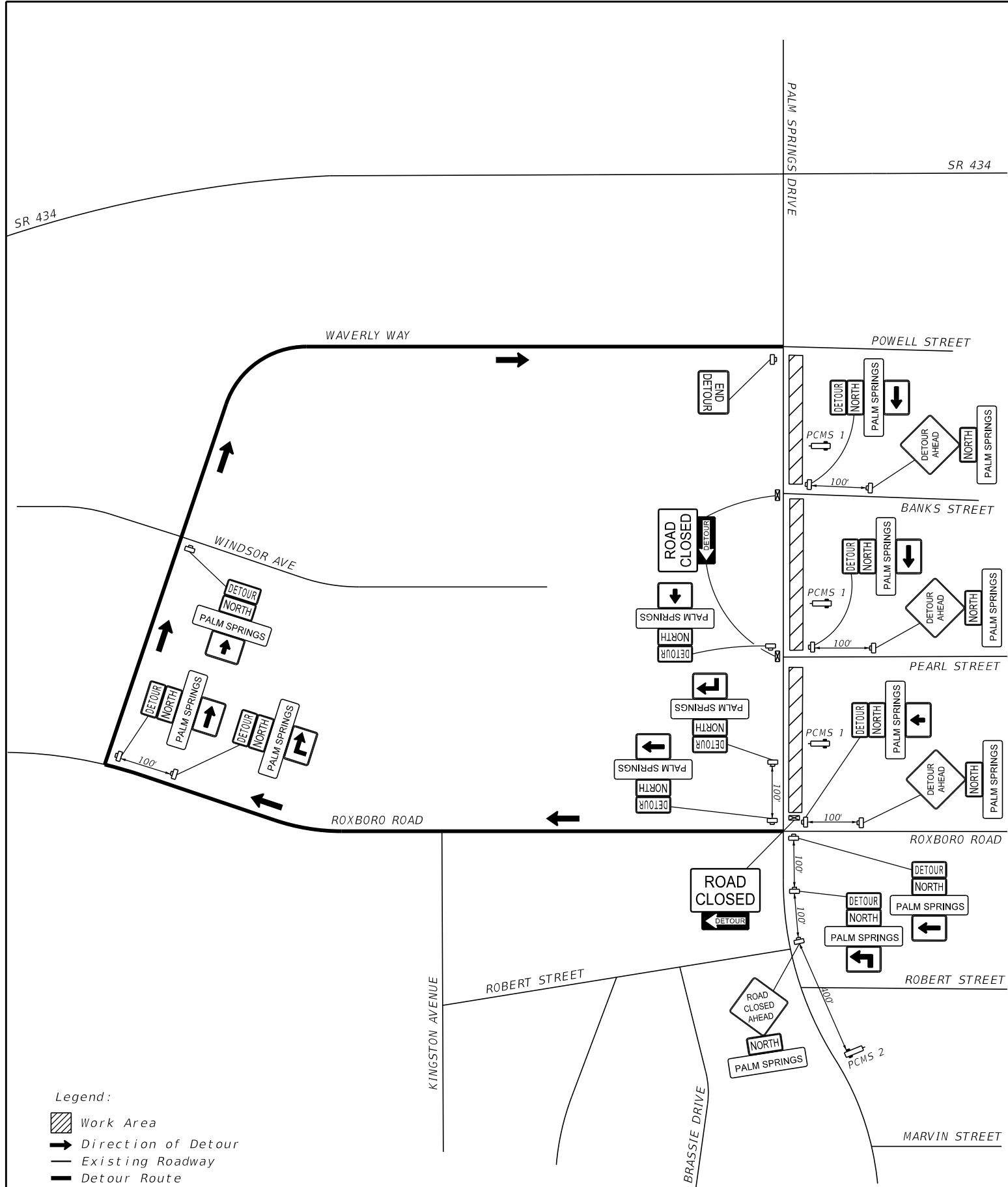
SEMINOLE COUNTY ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PHASE 3 STAGE 5
PALM SPRINGS DR.
DETOUR 3, 4, & 5

SHEET NO.
340

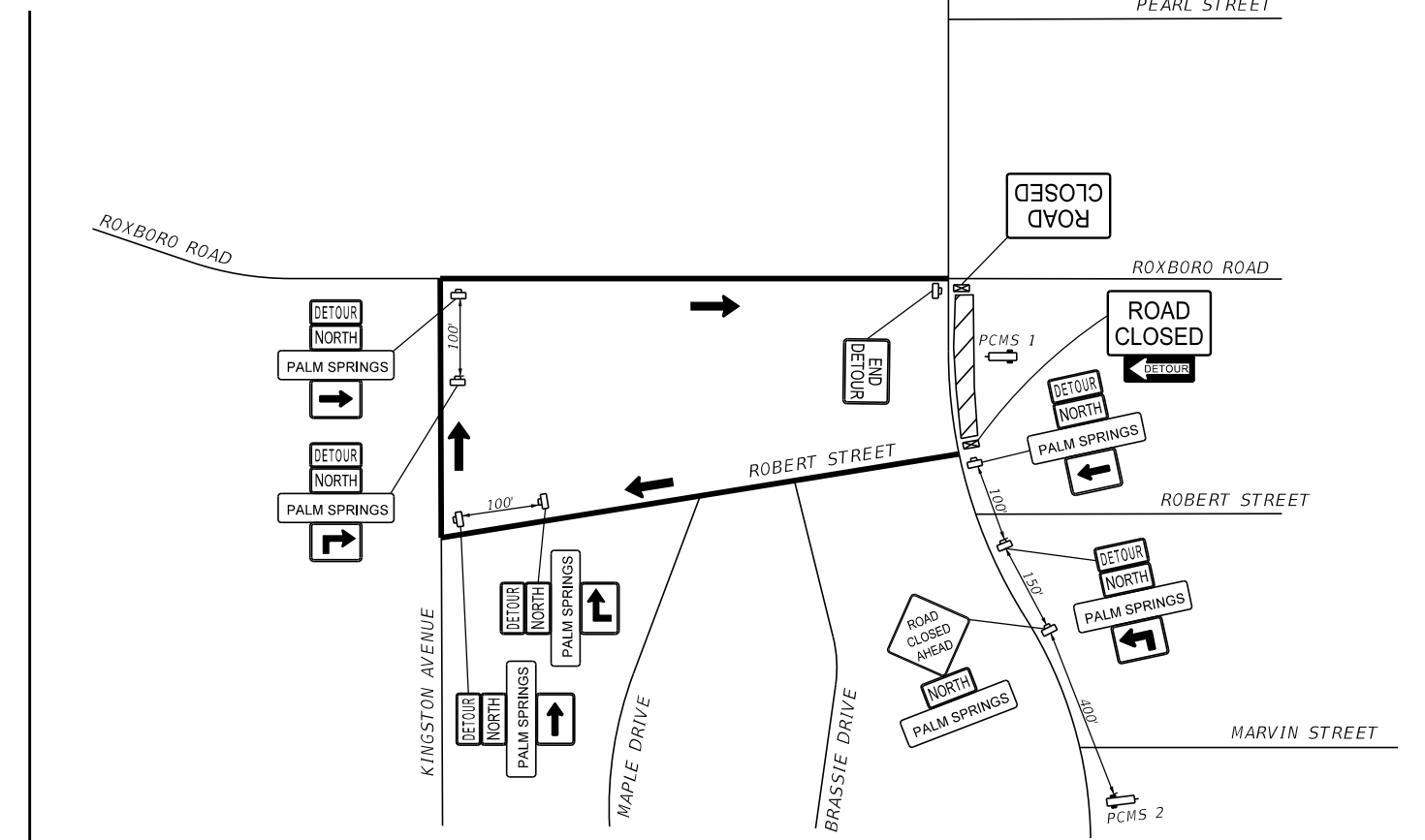
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DETOUR 1

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;
 MESSAGE 1 PALM SPRINGS NORTH
 MESSAGE 2 CLOSURE BEGINS XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;
 MESSAGE 1 PALM SPRINGS CLOSED
 MESSAGE 2 AHEAD FOLLOW DETOUR



DETOUR 2

- Notes:
1. Use these detours for Northbound one way closures of Palm Springs Drive for driveway and edge of travel construction during Phase 3 Stage 5.
 2. Detour 1 has three steps for construction to be done in segments.
 3. Segment 1 closes Palm Springs Drive from Banks Street to Waverly Way.
 4. Segment 2 closes Palm Springs Drive from Pearl Street to Banks Street.
 5. Segment 3 closes Palm Springs Drive from Roxboro Road to Pearl Street.
 6. Contractor may provide additional driveway/sidestreet detour signage as needed.

Legend:

- Work Area
- Direction of Detour
- Existing Roadway
- Detour Route
- Hard Closure - No Thru Traffic
- Soft Closure - One Way Traffic Only

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
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SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

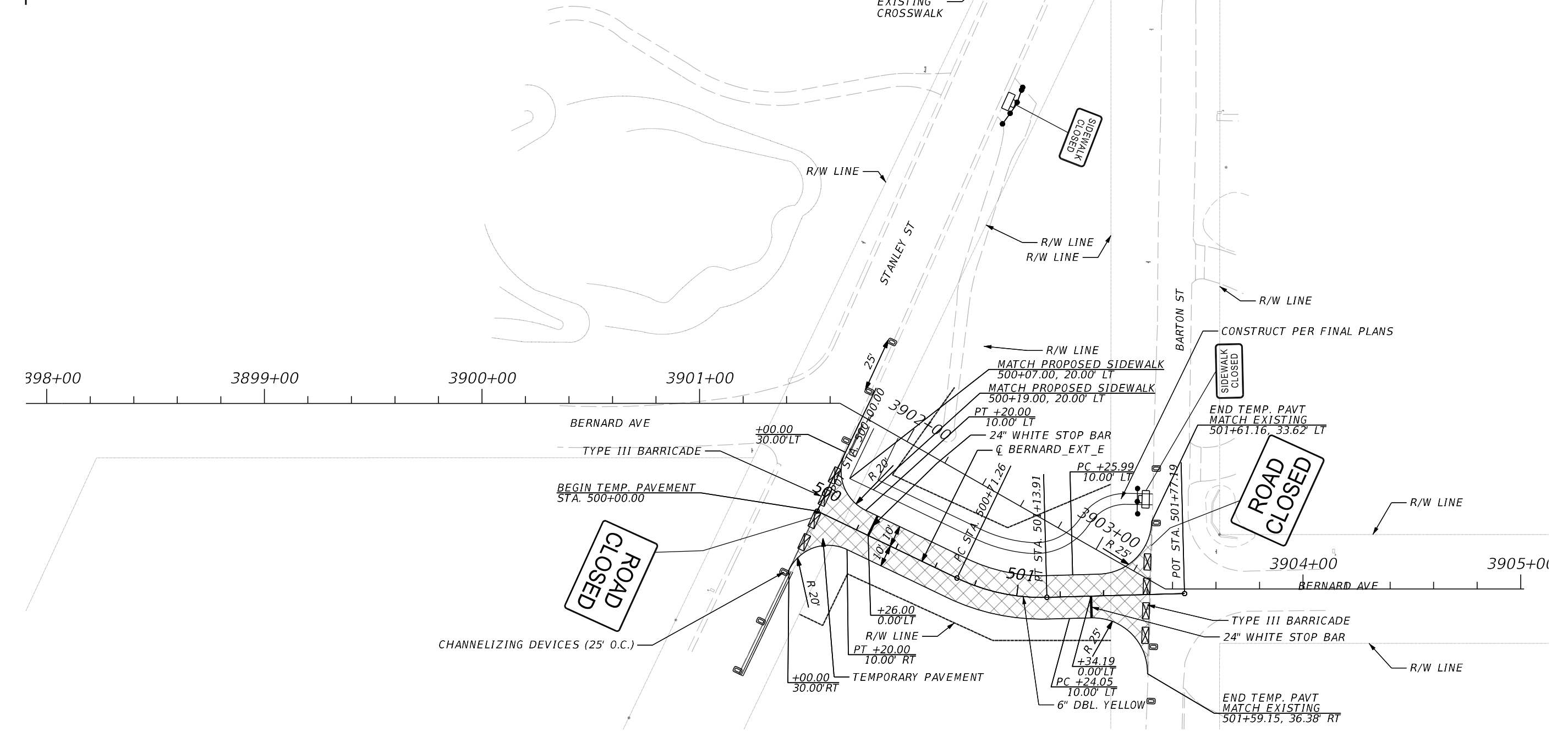
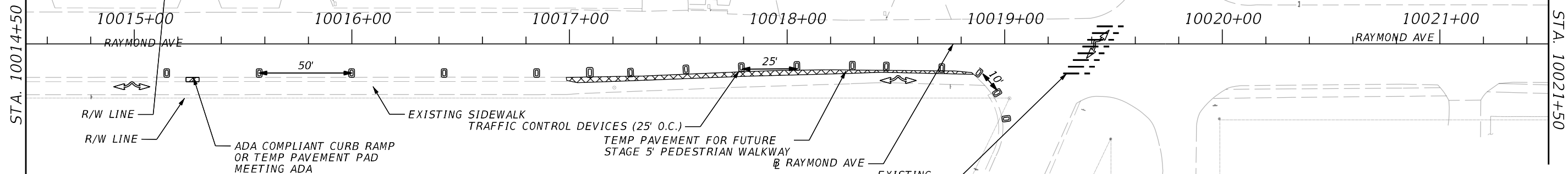
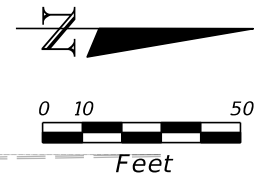
PHASE 3 STAGE 5
 PALM SPRINGS DR.
 DETOUR 1 & 2

SHEET NO.
 341

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COORDINATE AND CURVE DATA

Segment Name	Control	Station	Coordinates		Bearings			Curve/Spiral Data				Superelevation		
			Northing	Easting	Back	Ahead	Delta	D	T	L	R	Design Speed	e _{max}	e
Point: 5000	P.I.	500+00.00	1,583,273.7540	532,655.0002										
Curve: BERN_EXT_EX1	P.I.	500+92.99	1,583,357.6576	532,695.0973	N 25° 32' 34.43" E	N 1° 36' 49.20" W	27° 09' 23.63" (LT)	63° 39' 43.12"	21.7372	42.6574	90.0000	15	0.05	0.02
	P.C.	500+71.26	1,583,338.0450	532,685.7246										
	P.T.	501+13.91	1,583,379.3862	532,694.4852										
	C.C.		1,583,376.8518	532,604.5209										
Point: 5001	P.I.	501+77.19	1,583,442.6382	532,692.7033	N 1° 36' 49.20" W									



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
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 FAX 407.420.4242

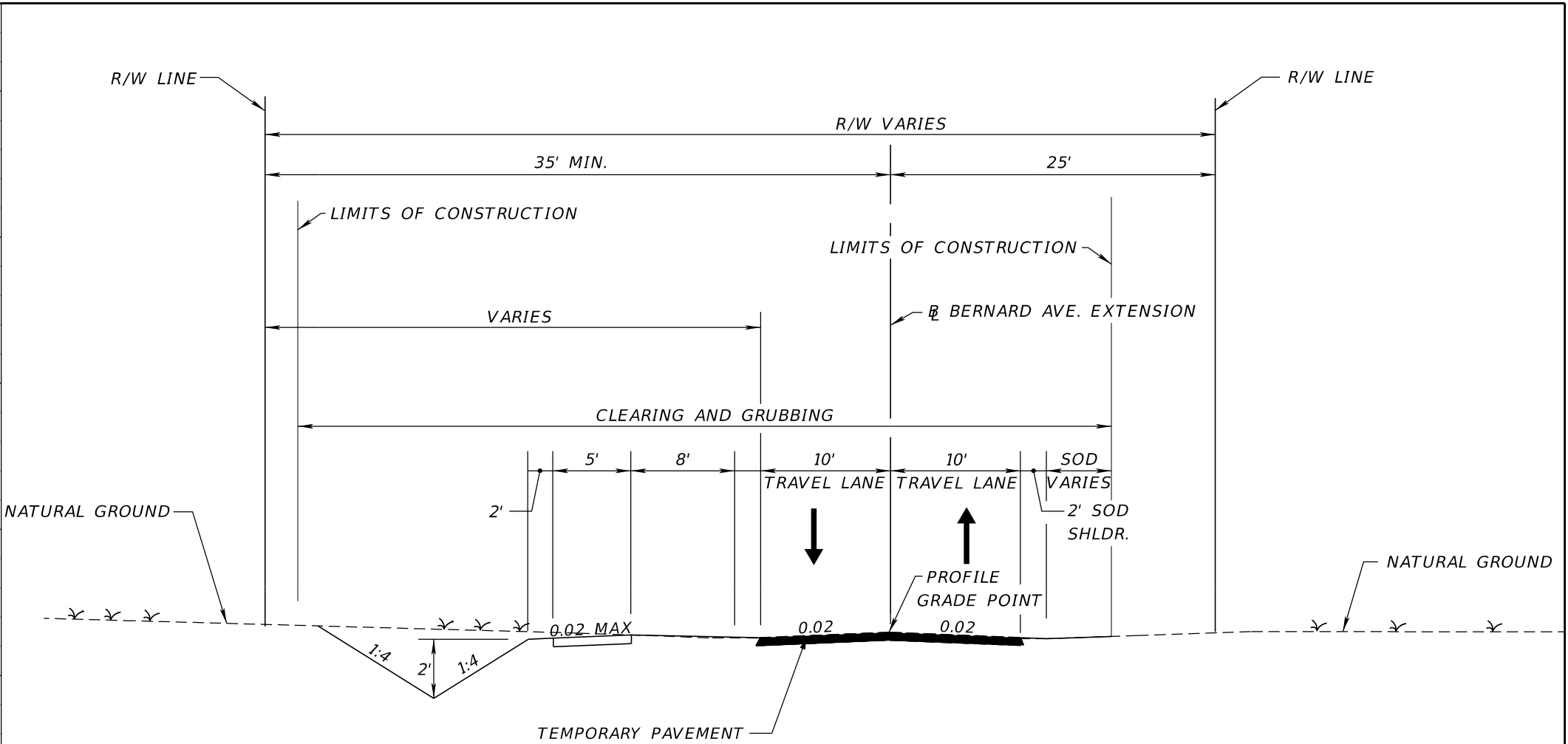
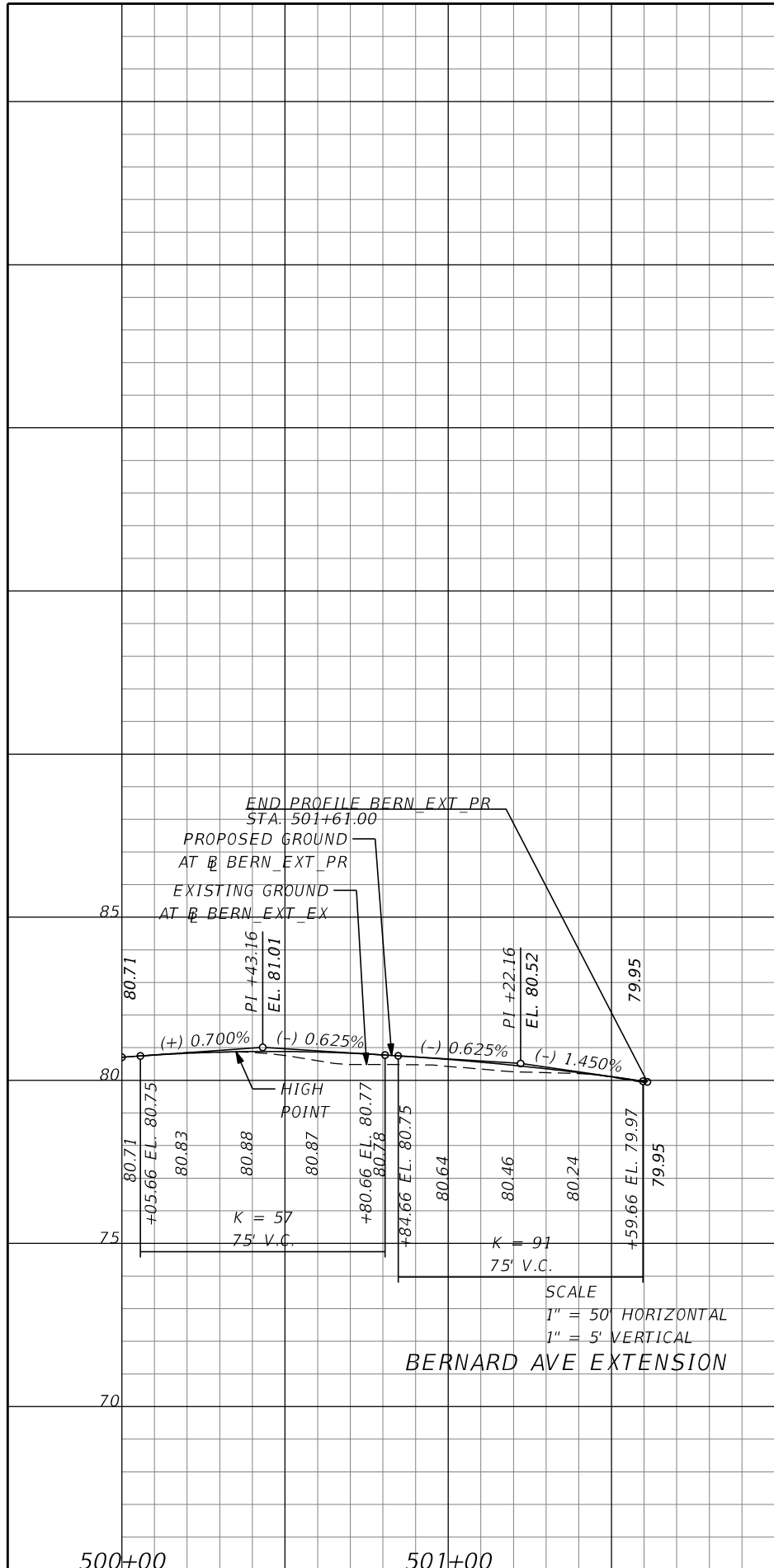


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

RAYMOND AVENUE
 PHASE 1 STAGE 0

SHEET NO.
 342

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TYPICAL SECTION
TEMPORARY BERNARD AVENUE EXTENSION
STA. 500+00.00 TO STA. 501+63.02

TRAFFIC DATA

DESIGN SPEED = 25 MPH
POSTED SPEED = 25 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



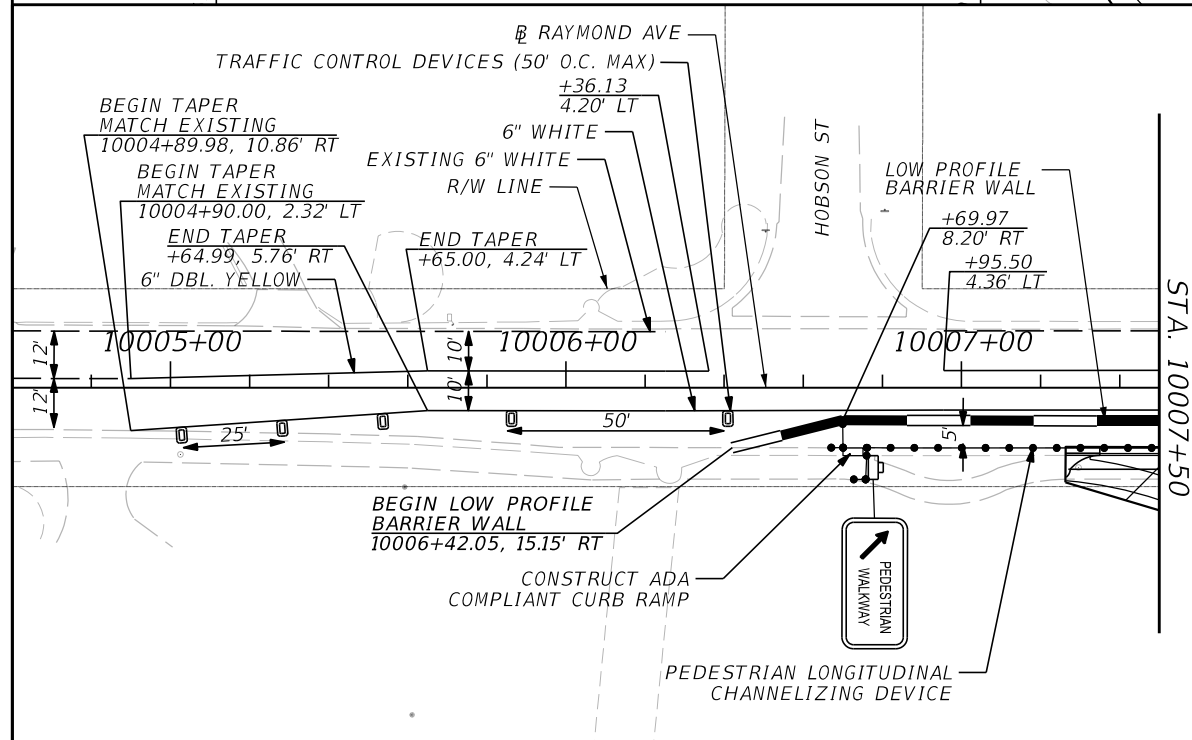
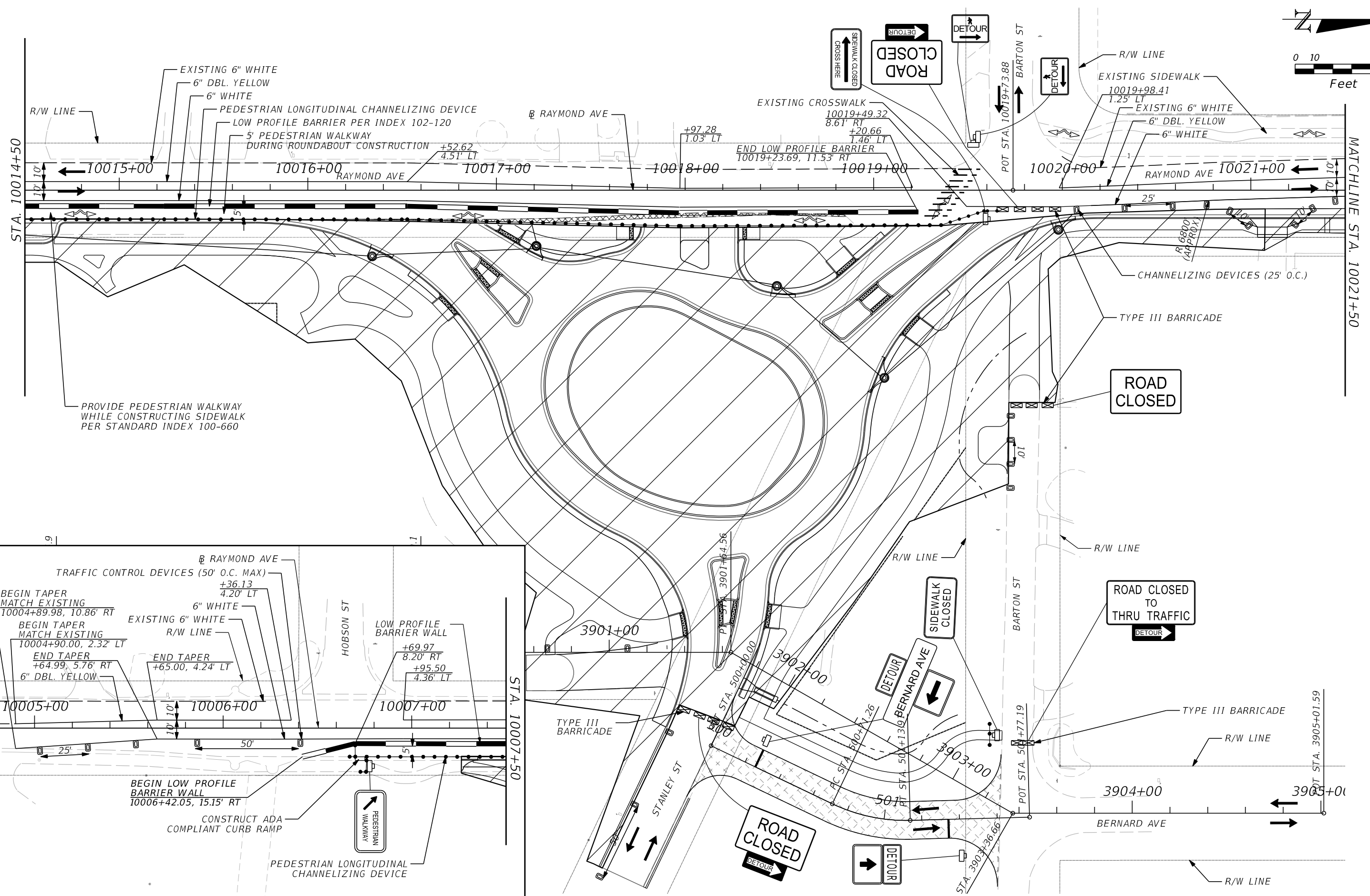
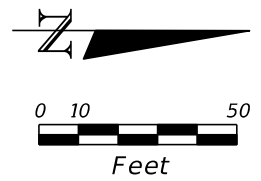
SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

BERNARD AVENUE
TYPICAL SECTION
PROFILE SHEET

SHEET NO.
343

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

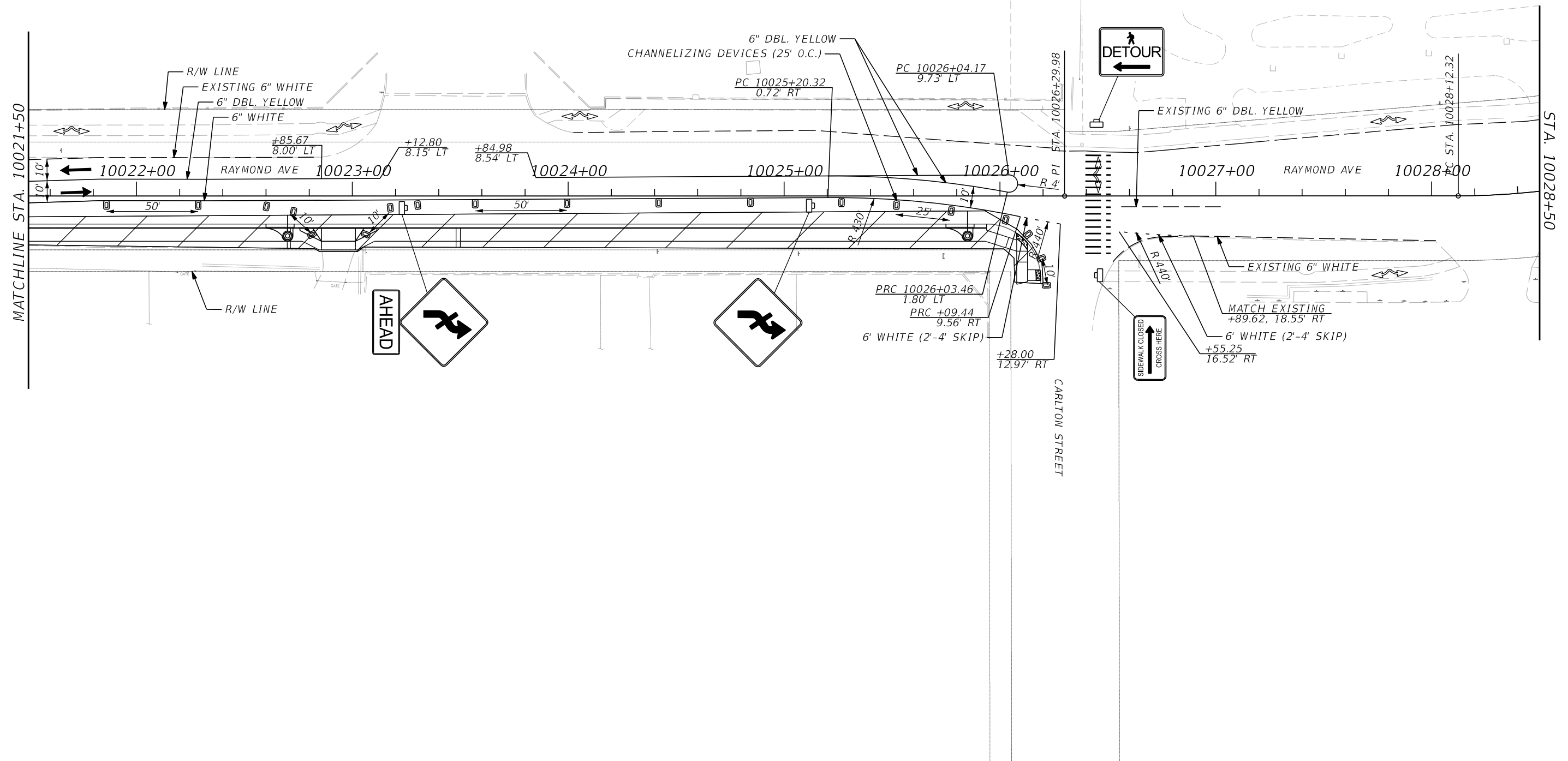
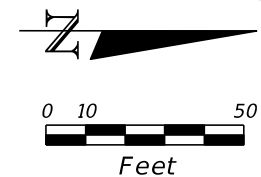
TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

RAYMOND AVENUE
PHASE 1 STAGE 1

SHEET NO.
 344

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

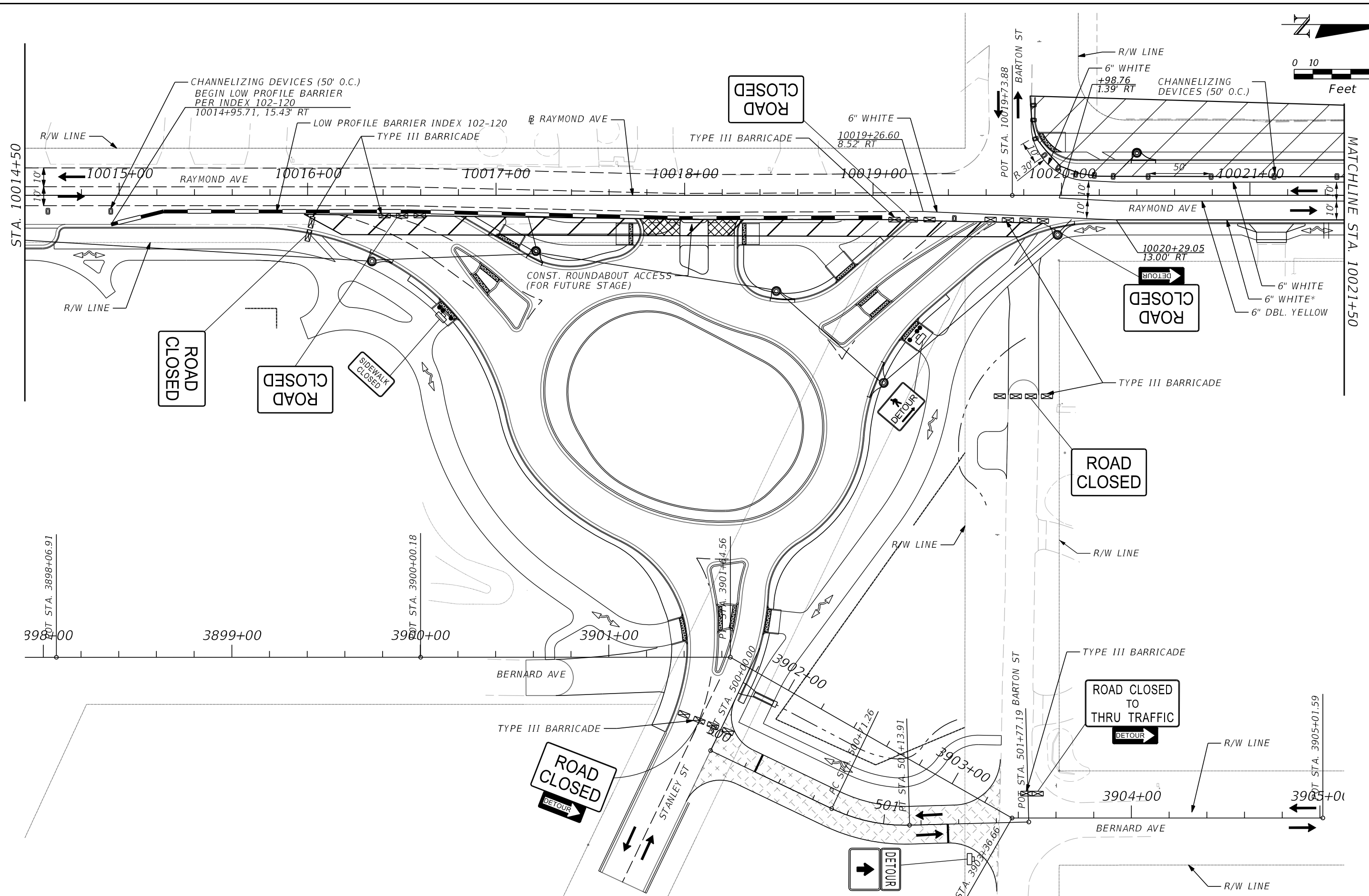
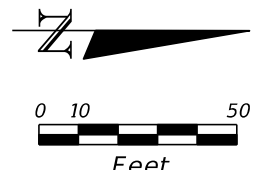
TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

RAYMOND AVENUE
PHASE 1 STAGE 1
 SHEET NO. 345

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

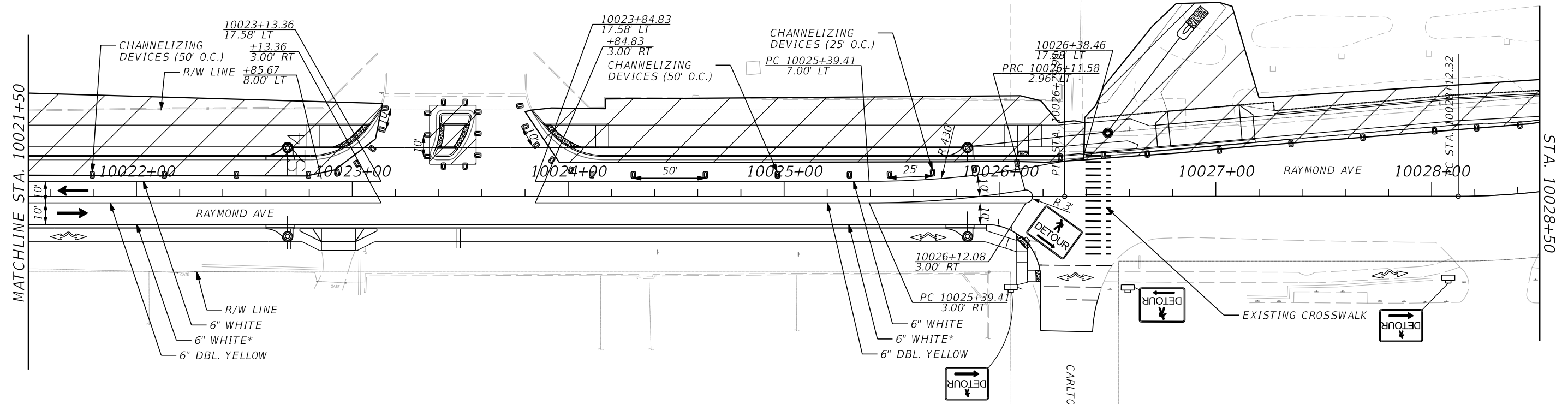
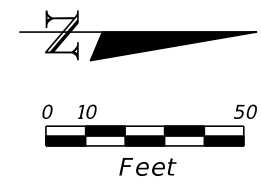


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

RAYMOND AVENUE
PHASE 1 STAGE 2

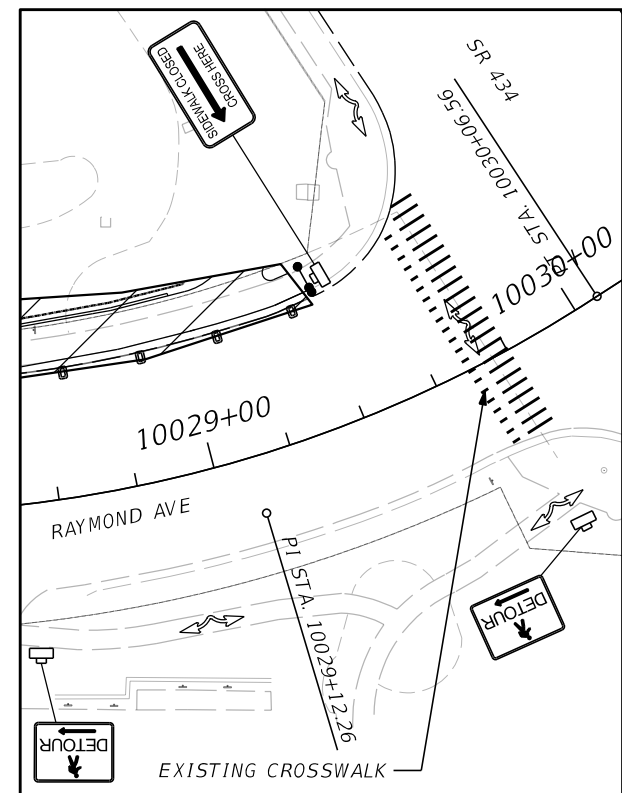
SHEET NO.
 346

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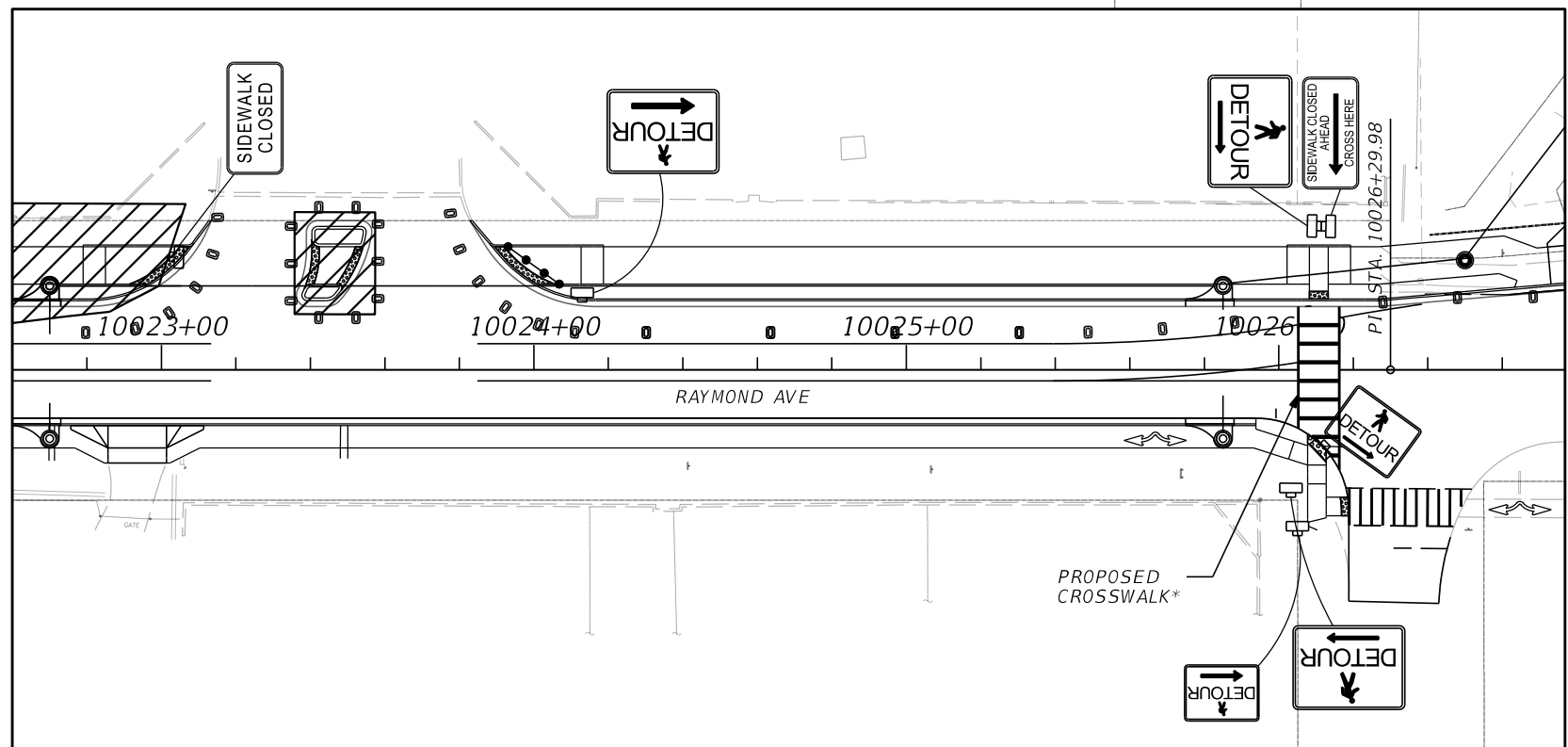


PEDESTRIAN DETOUR

STEP 1



STEP 2



Notes:
 * Refer to Signing and Marking plans for final striping locations.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

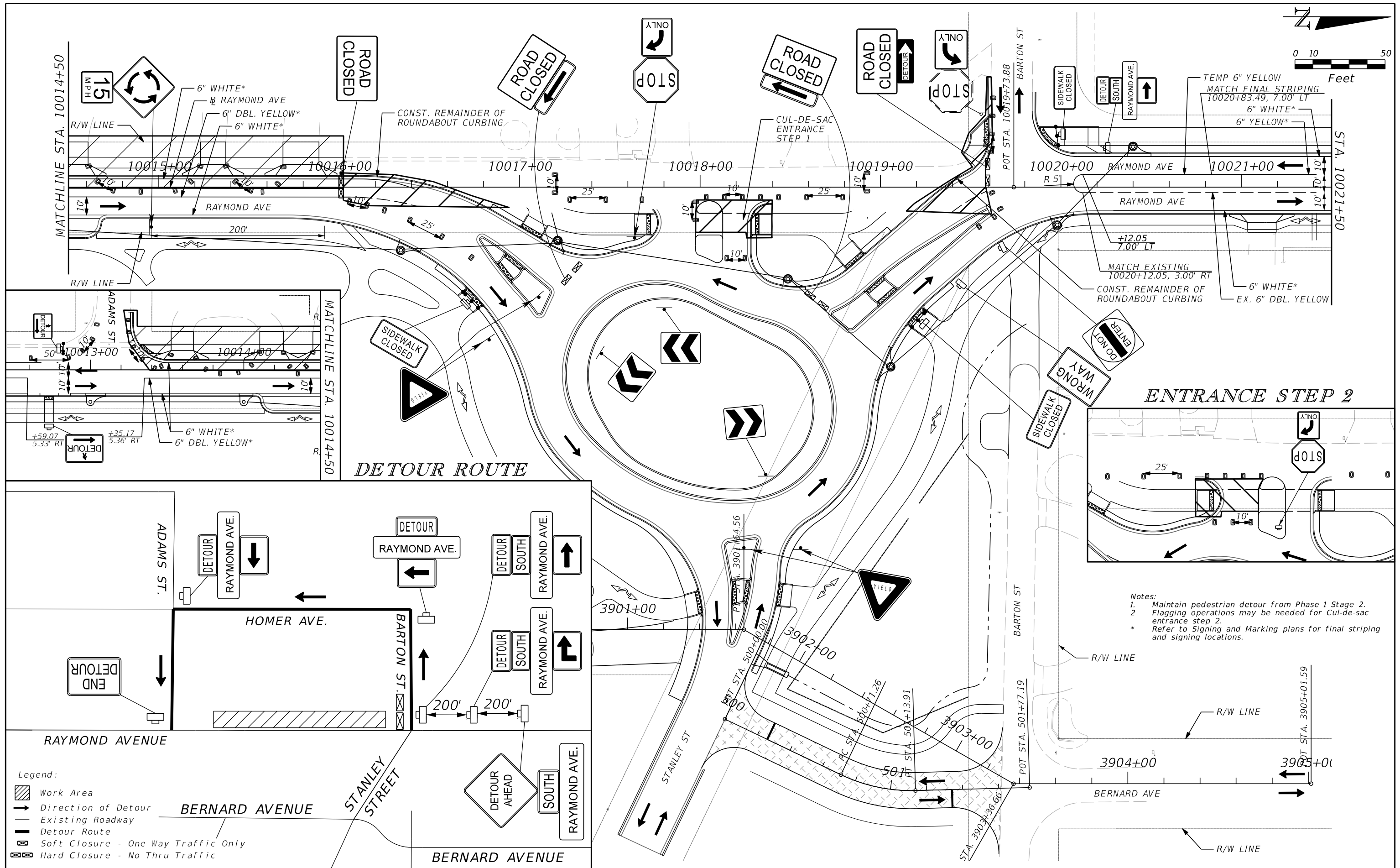
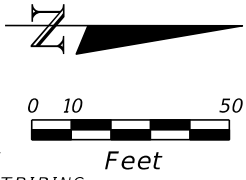


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

RAYMOND AVENUE
 PHASE 1 STAGE 2

SHEET NO.
 347

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Notes:
 1. Maintain pedestrian detour from Phase 1 Stage 2.
 2. Flagging operations may be needed for Cul-de-sac entrance step 2.
 * Refer to Signing and Marking plans for final striping and signing locations.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

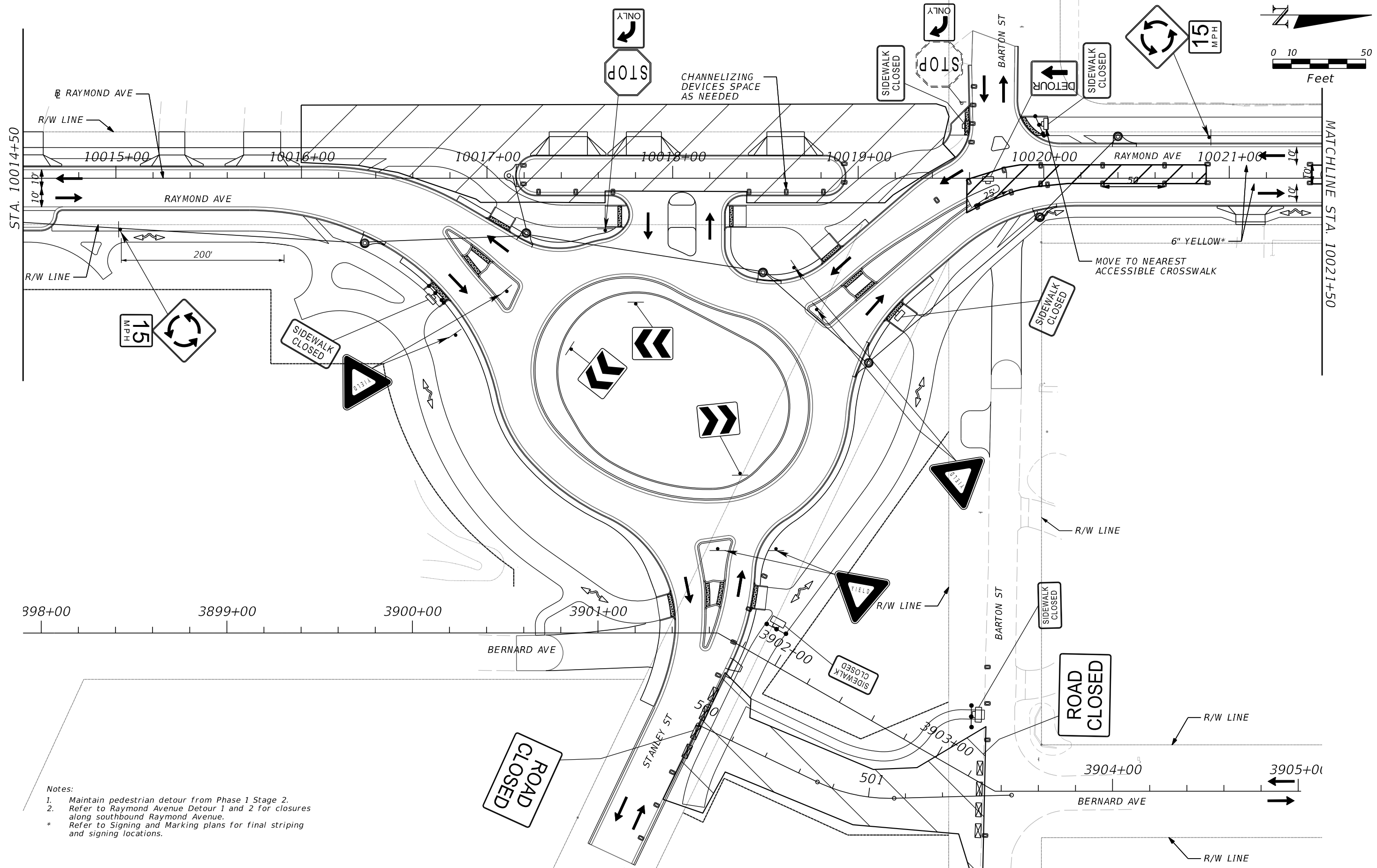


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

RAYMOND AVENUE
 PHASE 1 STAGE 3
 SHORT TERM DETOUR

SHEET NO.
 348

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



Notes:
 1. Maintain pedestrian detour from Phase 1 Stage 2.
 2. Refer to Raymond Avenue Detour 1 and 2 for closures along southbound Raymond Avenue.
 * Refer to Signing and Marking plans for final striping and signing locations.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



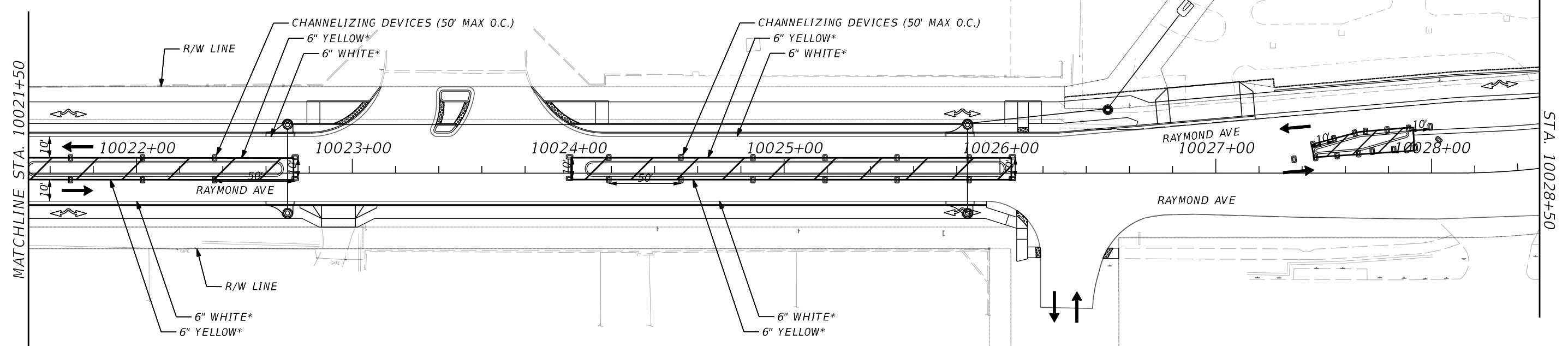
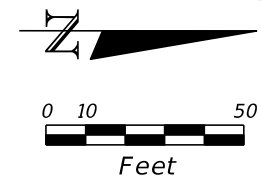
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

RAYMOND AVENUE
 PHASE 1 STAGE 4

SHEET NO.
 349

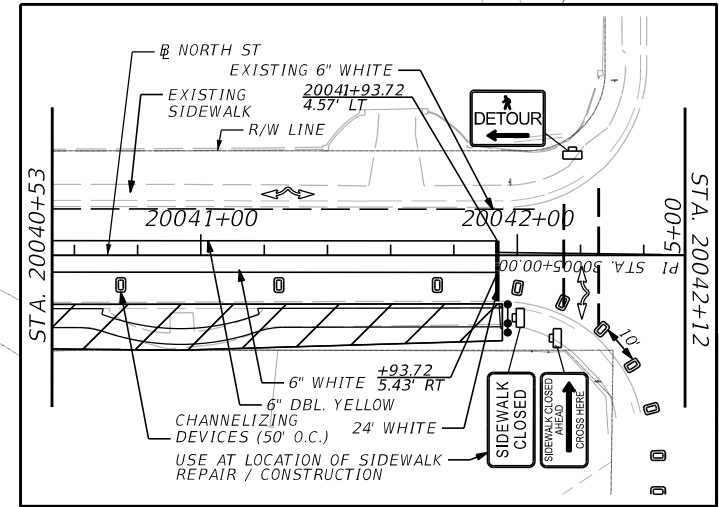
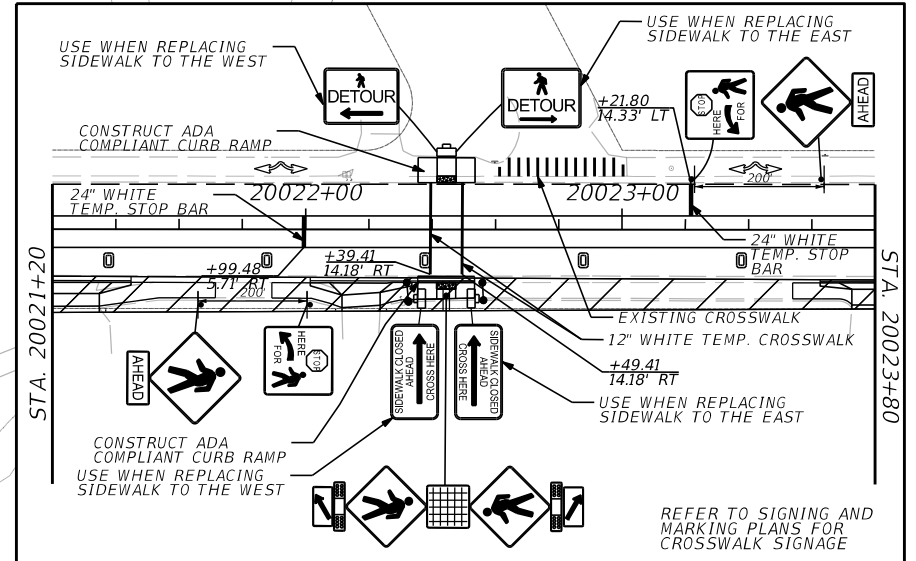
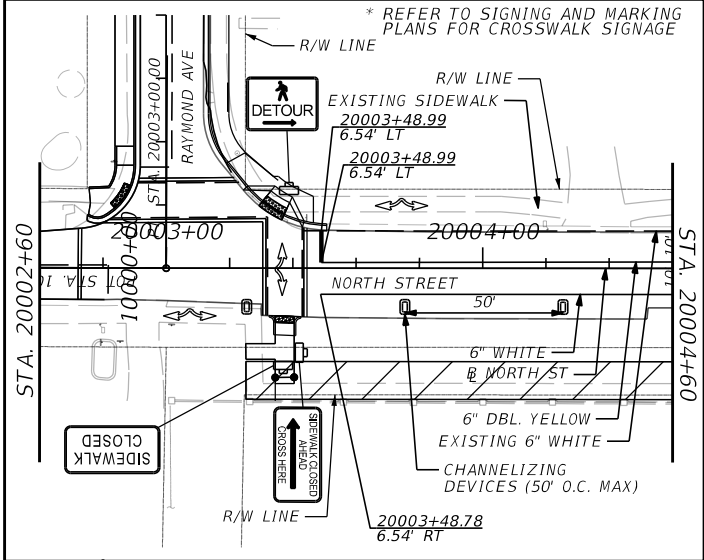
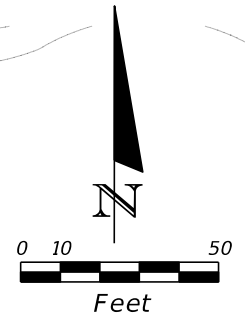
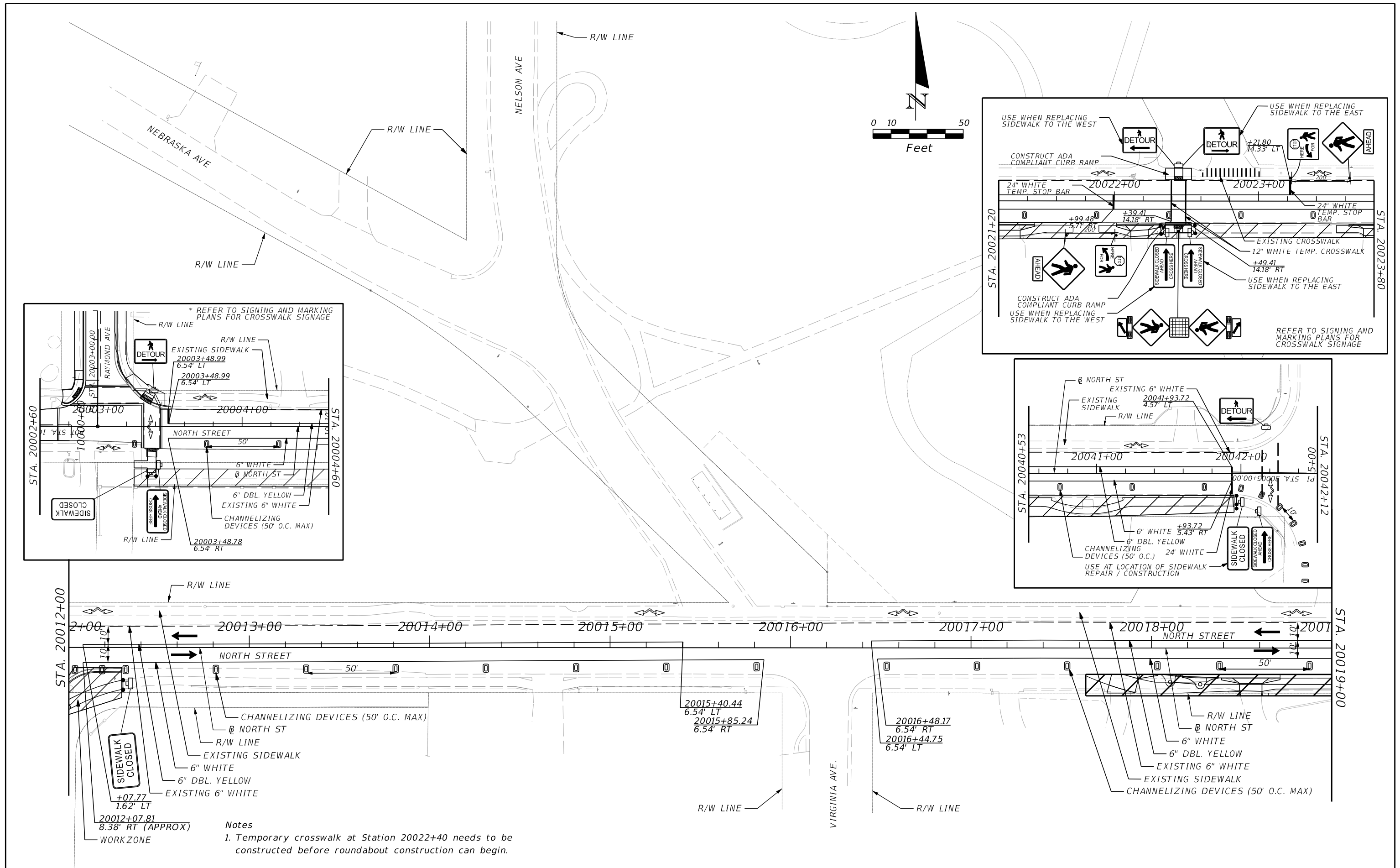
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Notes:
 * Refer to Signing and Marking plans for final striping locations.

REVISIONS				<small>TYLER VALILA, P.E. LICENSE NO. 90792</small> HR <small>315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801</small> <small>PHONE 407.420.4200 FAX 407.420.4242</small>	<small>SEMINOLE COUNTY ENGINEERING DIVISION</small> ROLLING HILLS AREA ROADWAYS PHASE 1 <small>ROAD COUNTY CIP No.</small>		RAYMOND AVENUE PHASE 1 STAGE 4	<small>SHEET NO.</small> 350
DATE	DESCRIPTION	DATE	DESCRIPTION		<small>RAYMOND AVE., NORTH ST., PALM SPRINGS DR.</small> 01907084			

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



Notes
 1. Temporary crosswalk at Station 20022+40 needs to be constructed before roundabout construction can begin.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

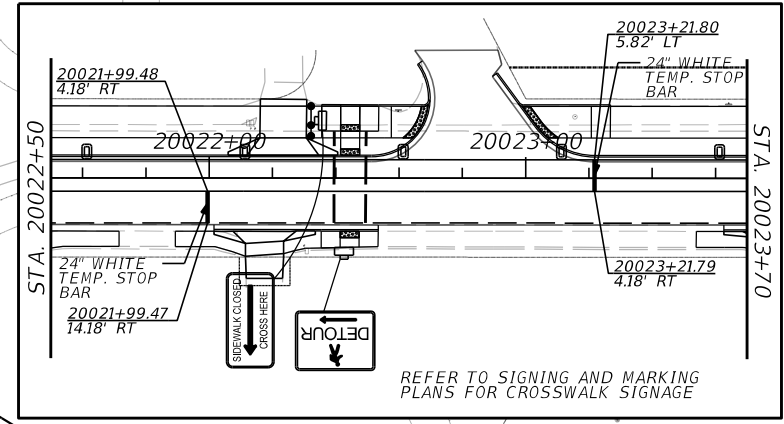
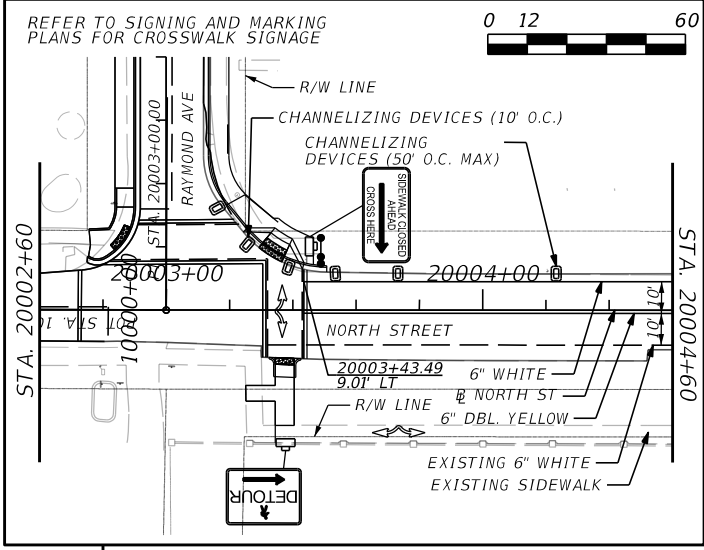
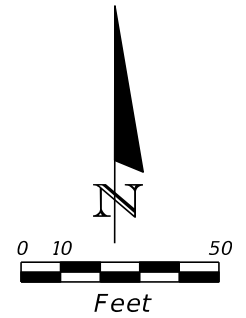
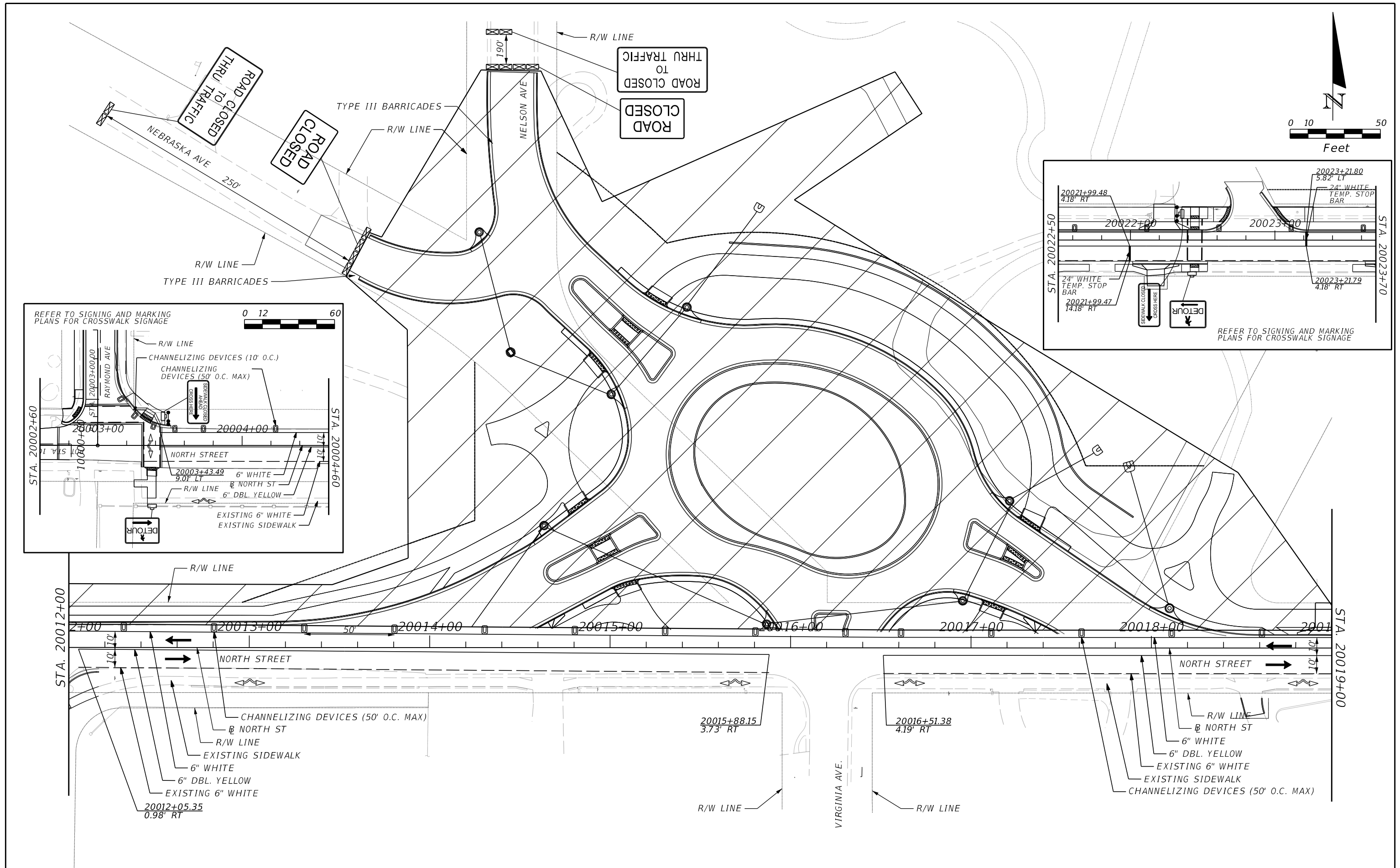


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

NORTH STREET
 PHASE 2 STAGE 1

SHEET NO.
 351

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



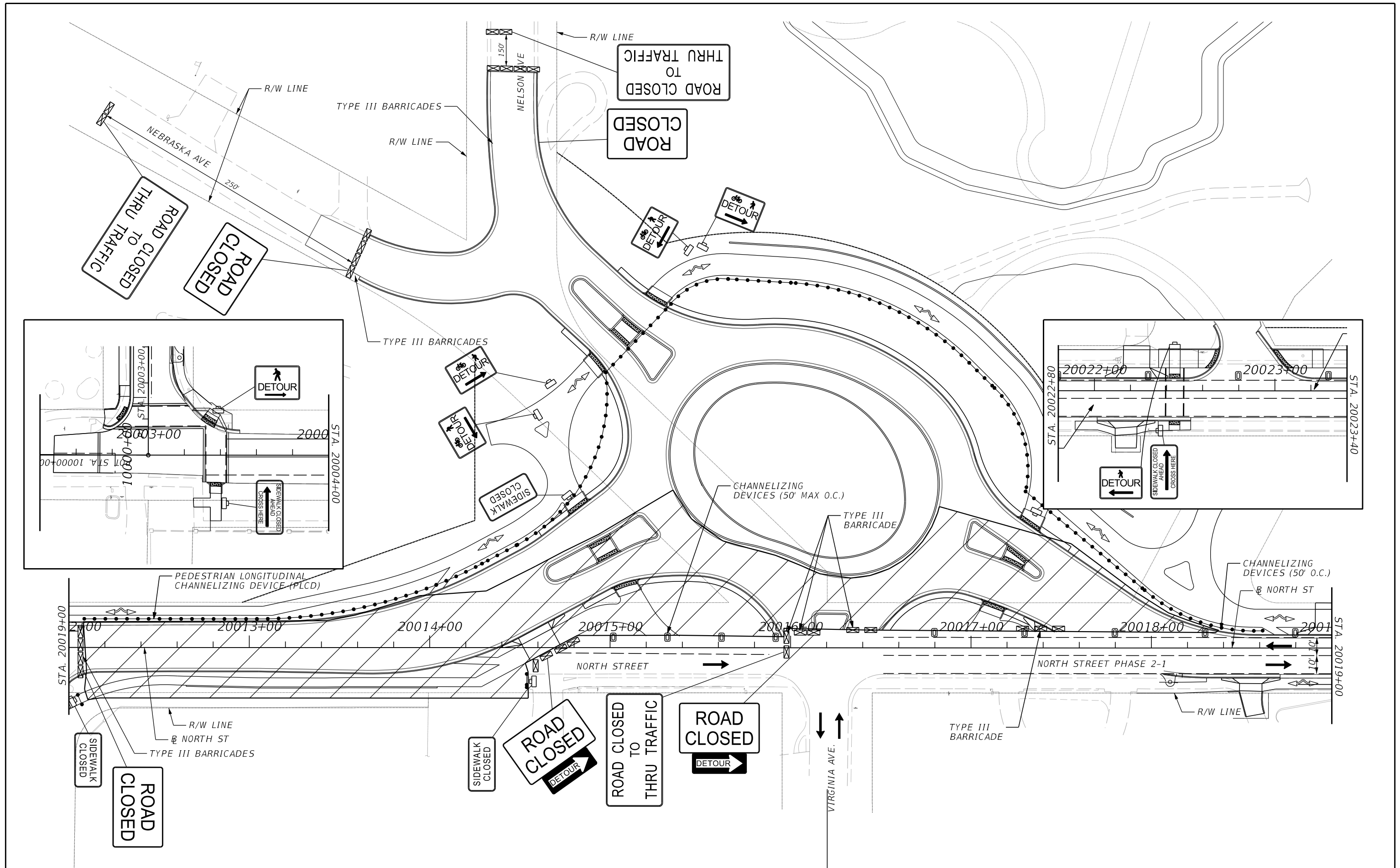
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**NORTH STREET
 PHASE 2 STAGE 2**

SHEET NO.
 352

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

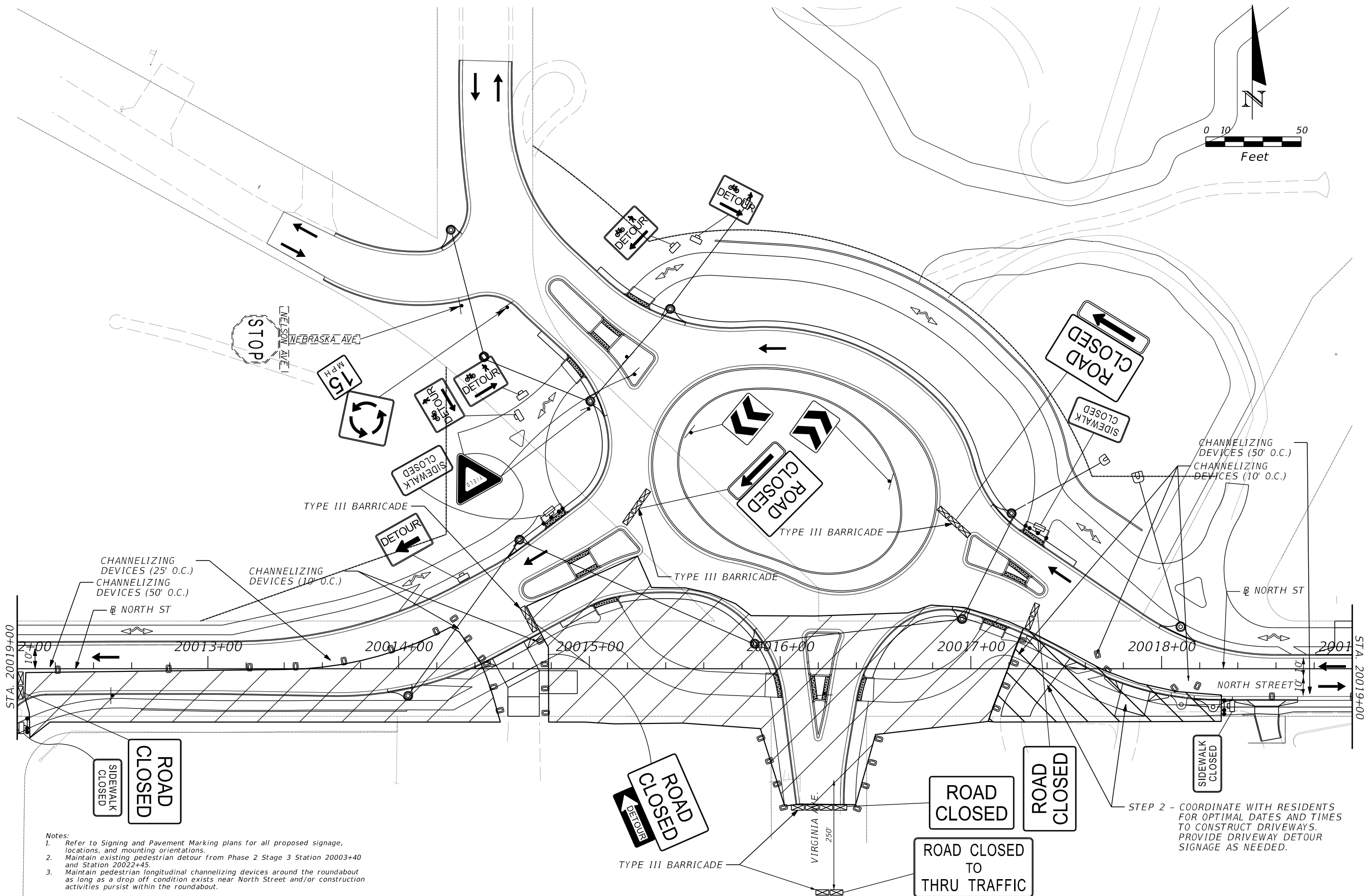
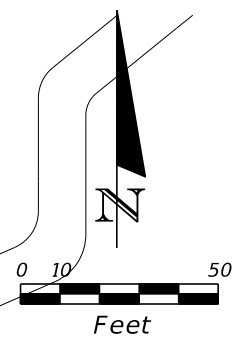


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

NORTH STREET
PHASE 2 STAGE 3

SHEET NO.
353

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



- Notes:
1. Refer to Signing and Pavement Marking plans for all proposed signage, locations, and mounting orientations.
 2. Maintain existing pedestrian detour from Phase 2 Stage 3 Station 20003+40 and Station 20022+45.
 3. Maintain pedestrian longitudinal channelizing devices around the roundabout as long as a drop off condition exists near North Street and/or construction activities persist within the roundabout.

STEP 2 - COORDINATE WITH RESIDENTS FOR OPTIMAL DATES AND TIMES TO CONSTRUCT DRIVEWAYS. PROVIDE DRIVEWAY DETOUR SIGNAGE AS NEEDED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E.
 LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



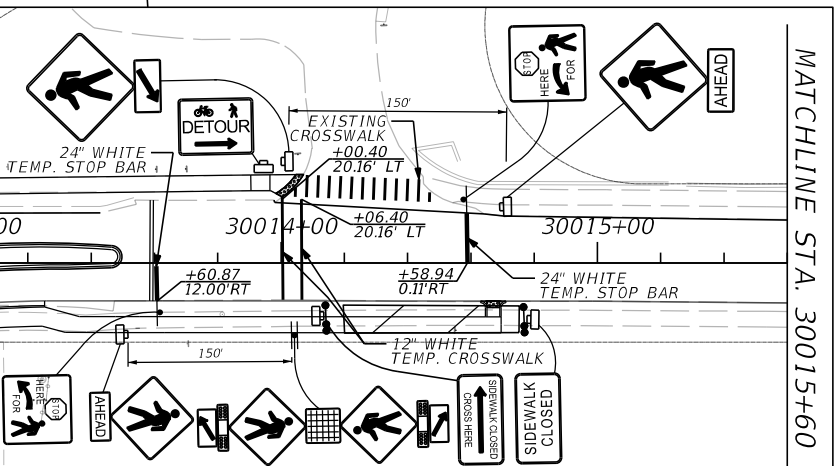
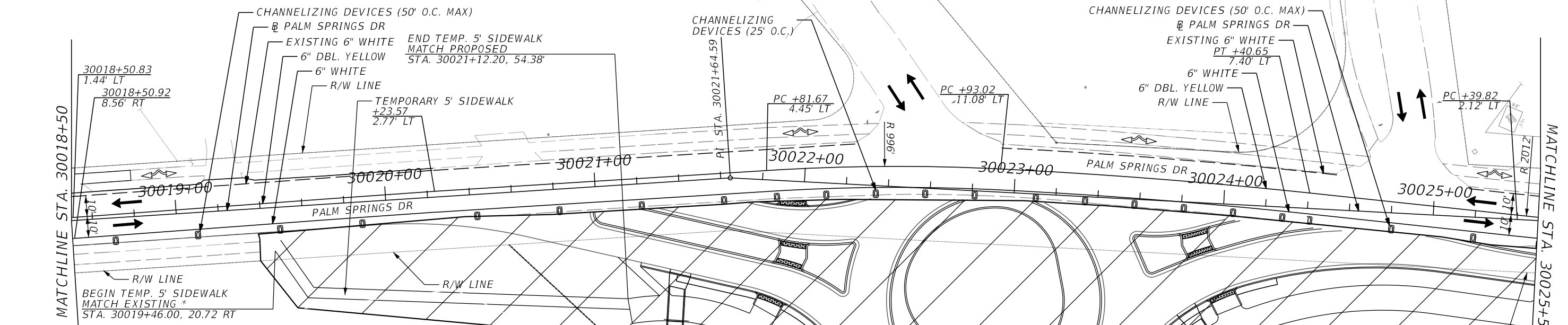
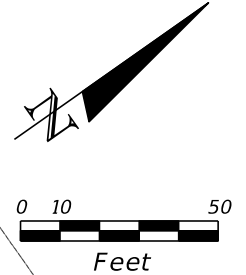
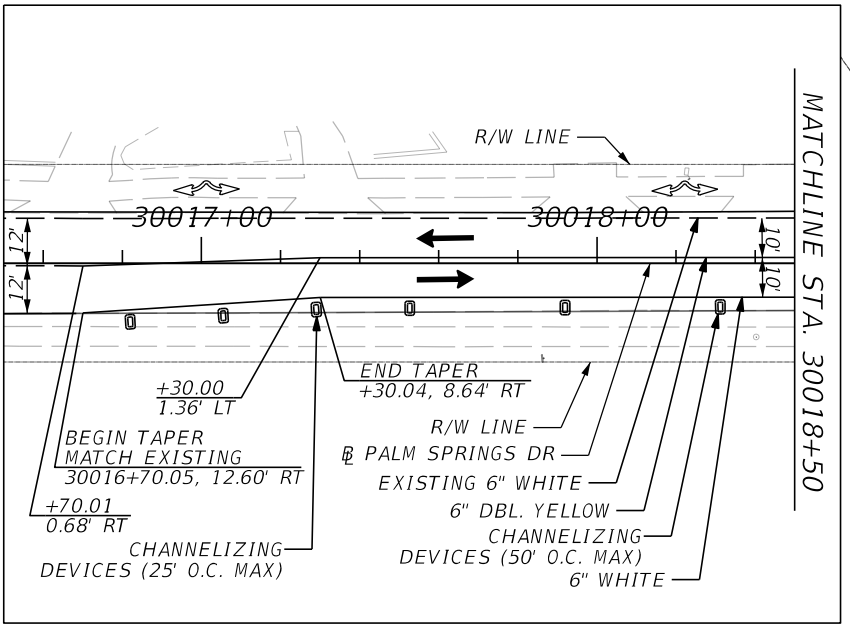
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**NORTH STREET
 PHASE 2 STAGE 4**

SHEET NO.
354

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



- Notes
1. Refer to Phase 3 Stage 1 Palm Springs Dr. Local Detour for the closure and detouring of Lakeland Avenue and Barton Street.
 2. Provide driveway detour signage as needed for side street access closure.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

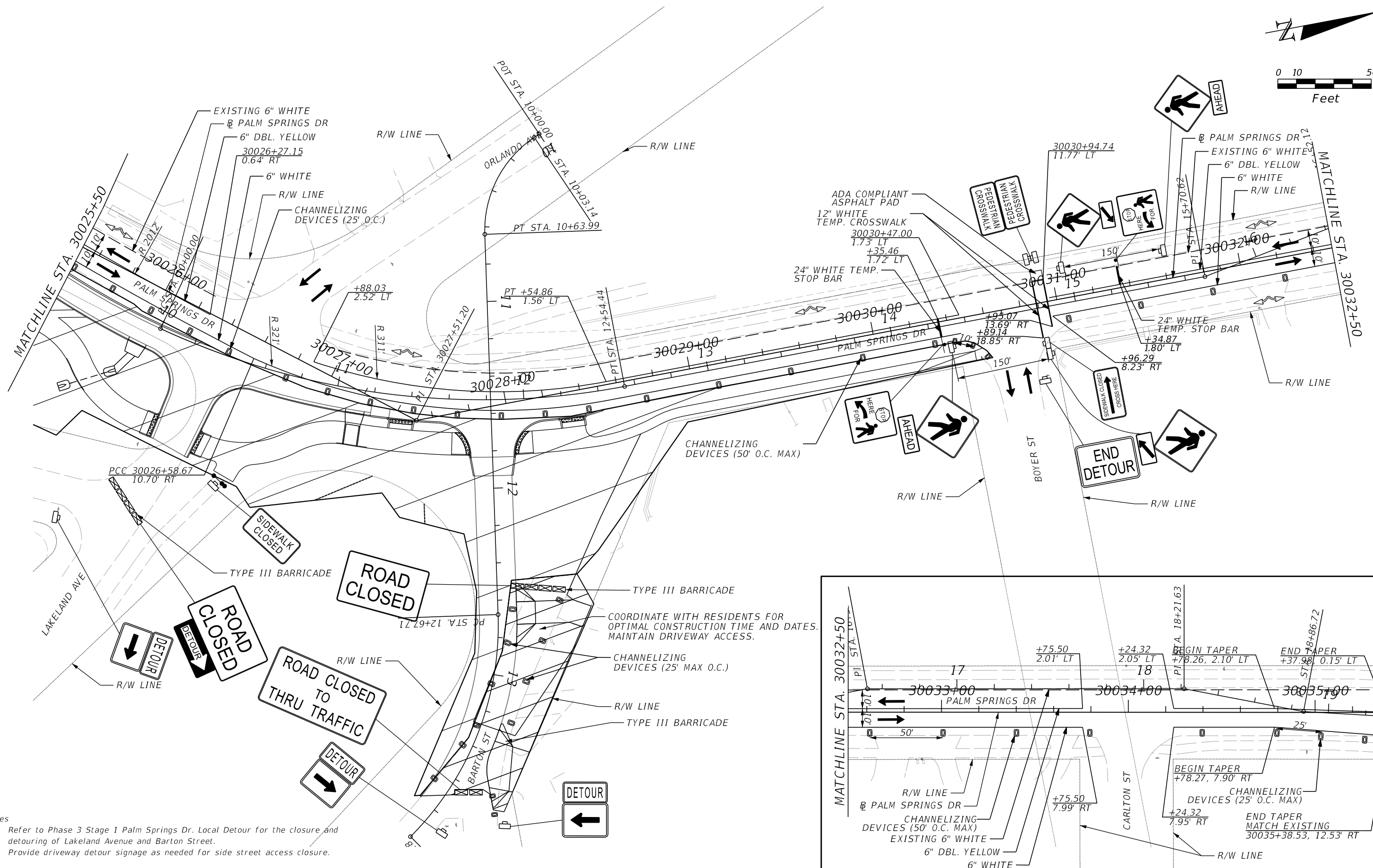
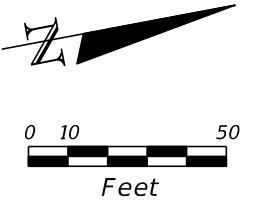


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH
 ST., PALM SPRINGS DR. 01907084

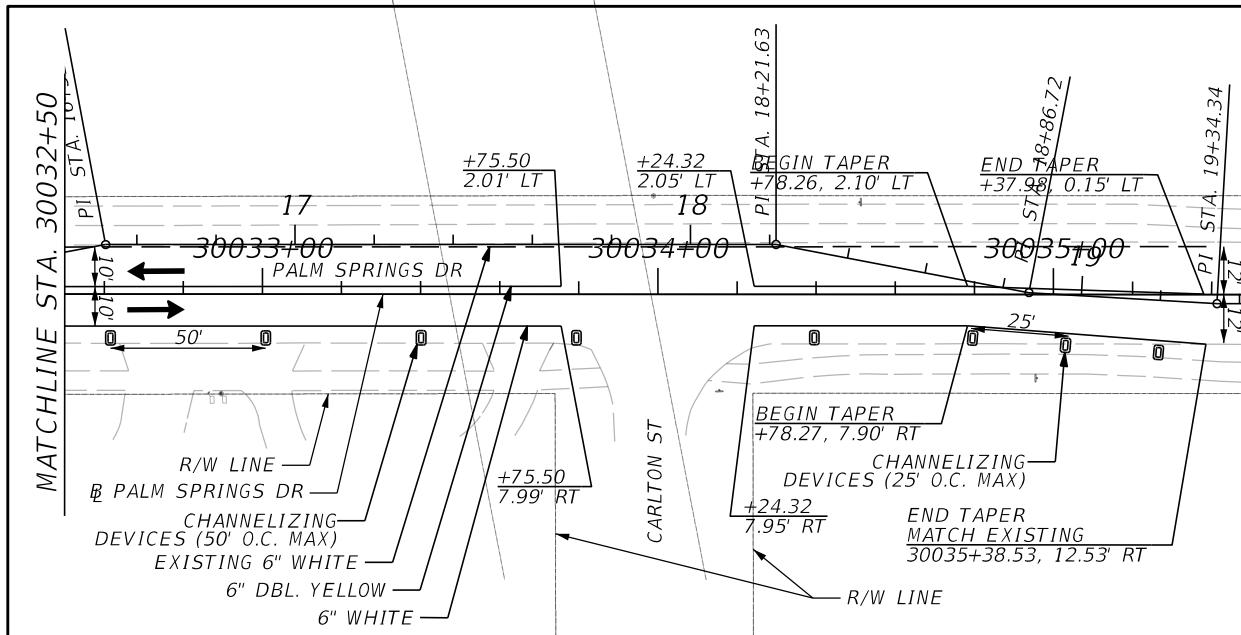
PALM SPRINGS DRIVE (1)
 PHASE 3 STAGE 2 STEP 1

SHEET NO.
 355

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



- Notes
1. Refer to Phase 3 Stage 1 Palm Springs Dr. Local Detour for the closure and detouring of Lakeland Avenue and Barton Street.
 2. Provide driveway detour signage as needed for side street access closure.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

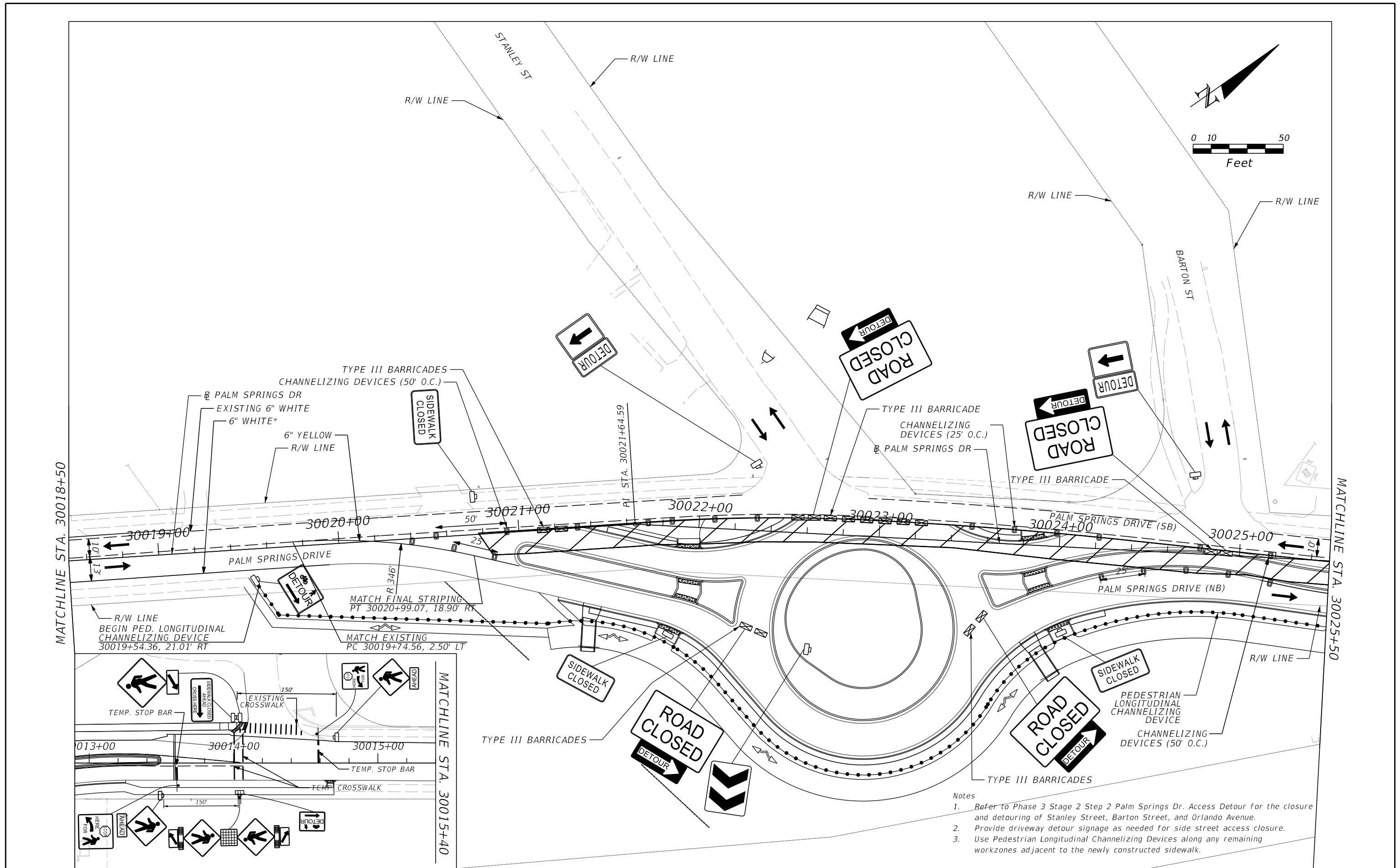


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

PALM SPRINGS DRIVE (2)
 PHASE 3 STAGE 2 STEP 1

SHEET NO.
 356

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



- Notes
1. Refer to Phase 3 Stage 2 Step 2 Palm Springs Dr. Access Detour for the closure and detouring of Stanley Street, Barton Street, and Orlando Avenue.
 2. Provide driveway detour signage as needed for side street access closure.
 3. Use Pedestrian Longitudinal Channelizing Devices along any remaining workzones adjacent to the newly constructed sidewalk.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

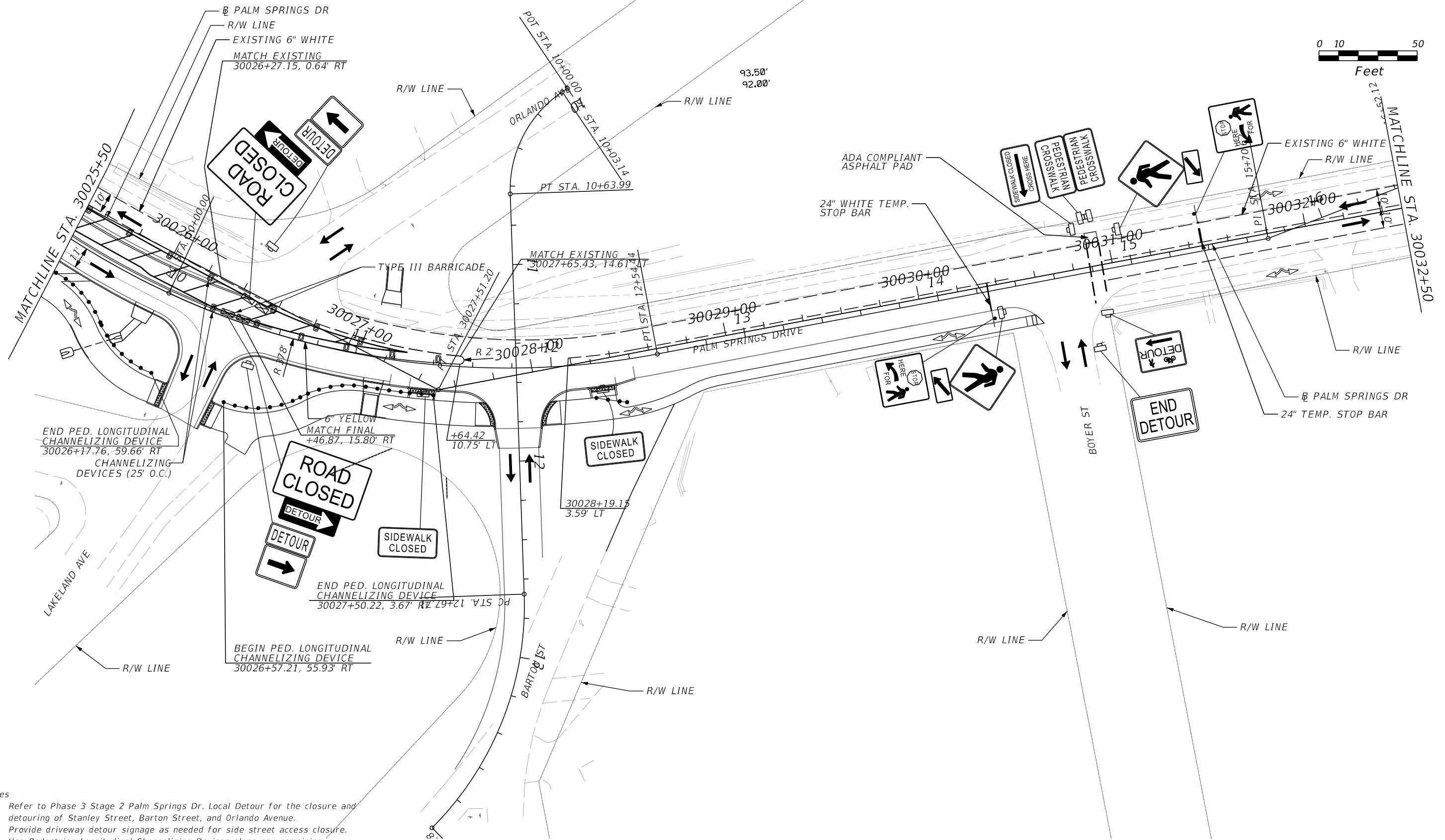
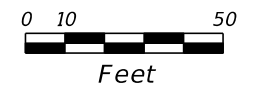


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH
 ST., PALM SPRINGS DR. 01907084

PALM SPRINGS DRIVE (1)
 PHASE 3 STAGE 2 STEP 2

SHEET NO.
 357

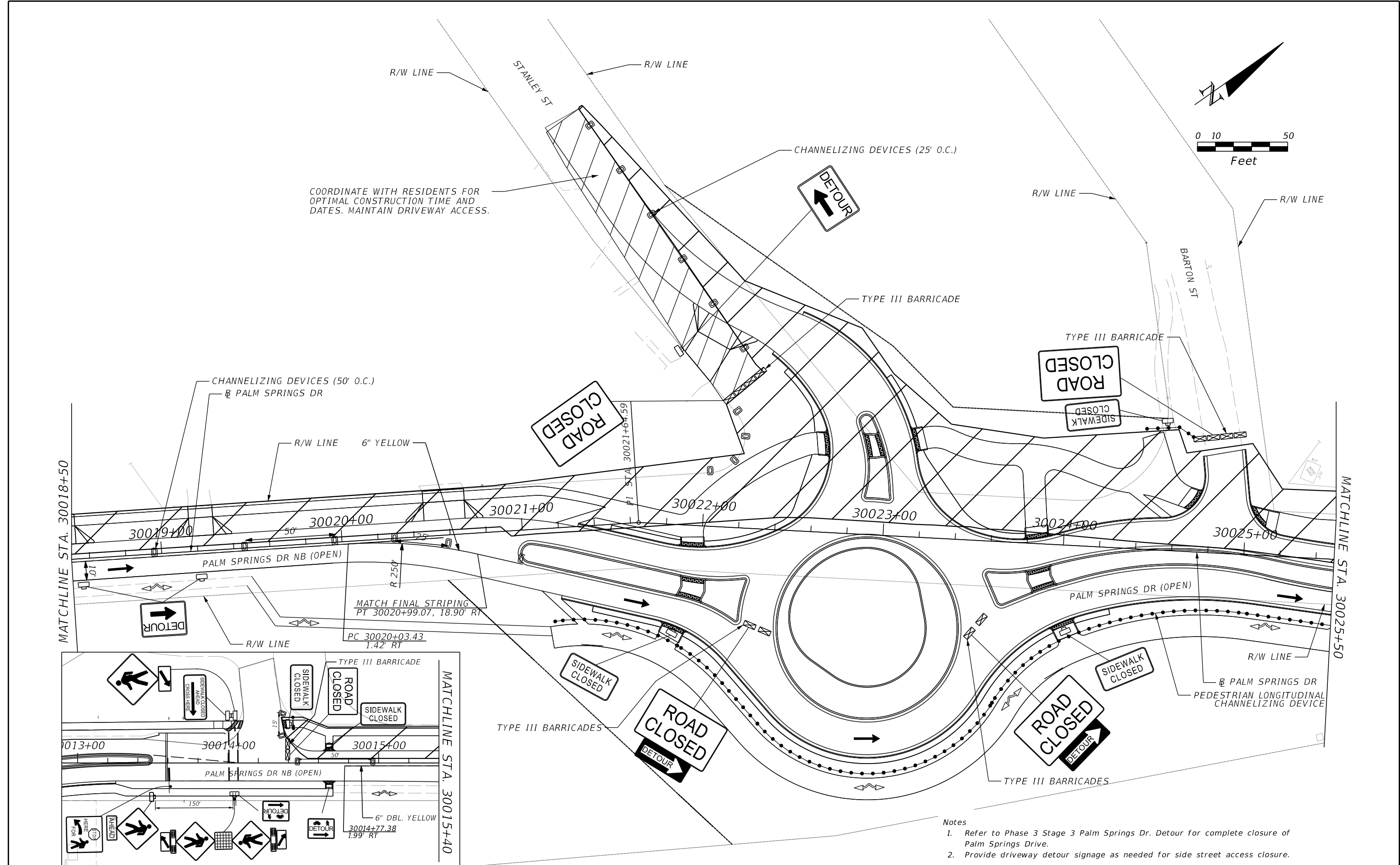
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- Notes
1. Refer to Phase 3 Stage 2 Palm Springs Dr. Local Detour for the closure and detouring of Stanley Street, Barton Street, and Orlando Avenue.
 2. Provide driveway detour signage as needed for side street access closure.
 3. Use Pedestrian Longitudinal Channelizing Devices along any remaining workzones adjacent to newly constructed sidewalk.

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		PALM SPRINGS DRIVE (2) PHASE 3 STAGE 2 STEP 2	SHEET NO. 358
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TYLER VALILA, P.E. LICENSE NO. 90792
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



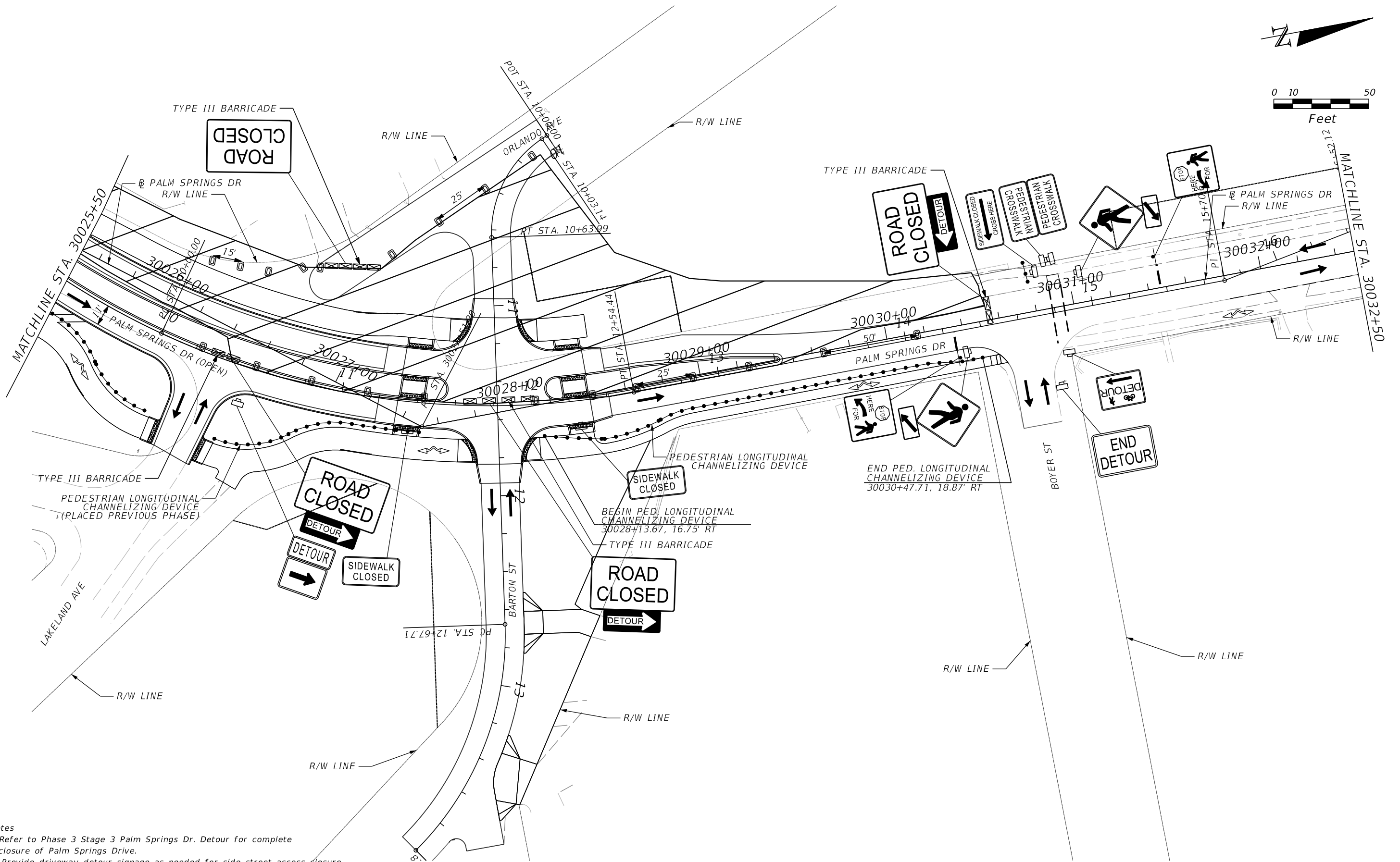
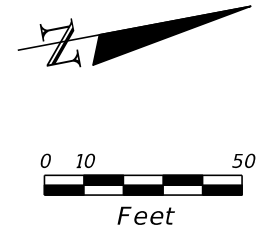
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PALM SPRINGS DRIVE (1)
 PHASE 3 STAGE 2 STEP 3

SHEET NO.
 359

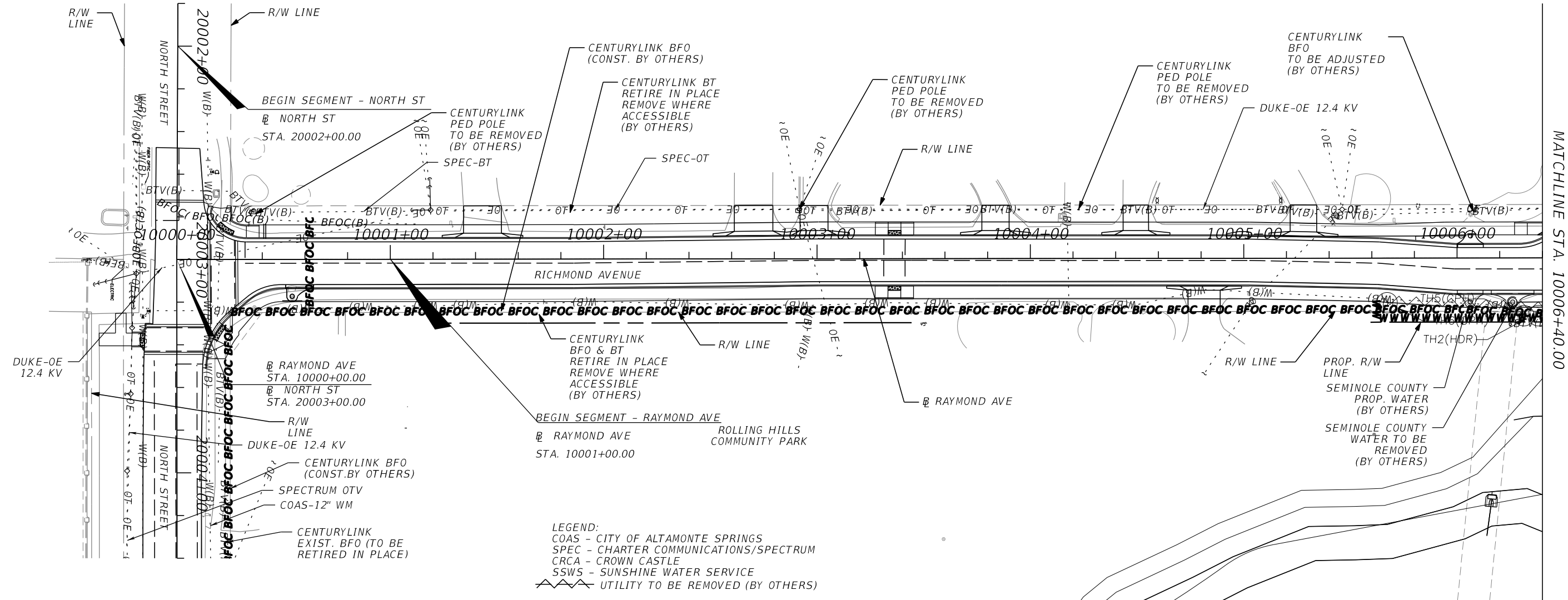
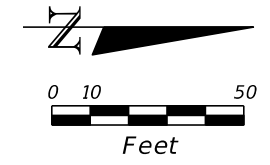
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- Notes
1. Refer to Phase 3 Stage 3 Palm Springs Dr. Detour for complete closure of Palm Springs Drive.
 2. Provide driveway detour signage as needed for side street access closure.

REVISIONS				TYLER VALILA, P.E. LICENSE NO. 90792 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		PALM SPRINGS DRIVE (2) PHASE 3 STAGE 2 STEP 3	SHEET NO. 360
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

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



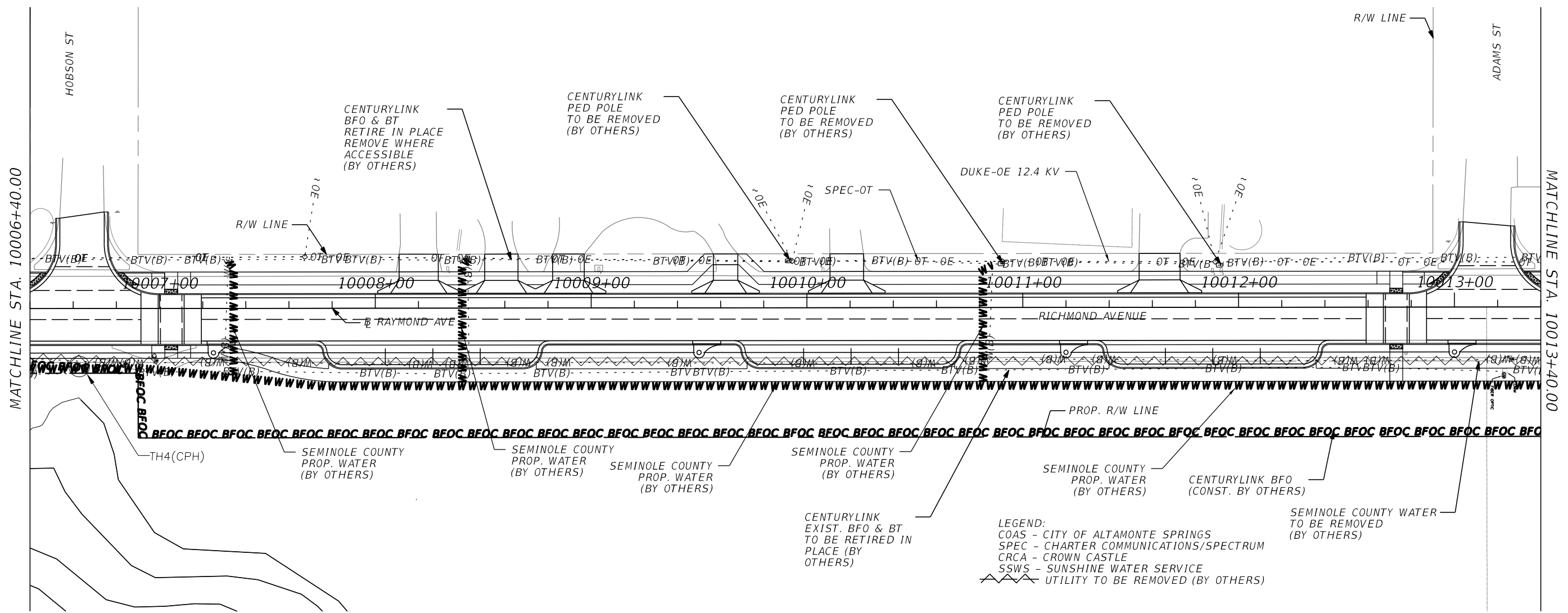
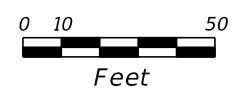
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

MATCHLINE STA. 10006+40.00

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	

UTILITY ADJUSTMENT

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



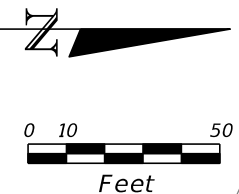
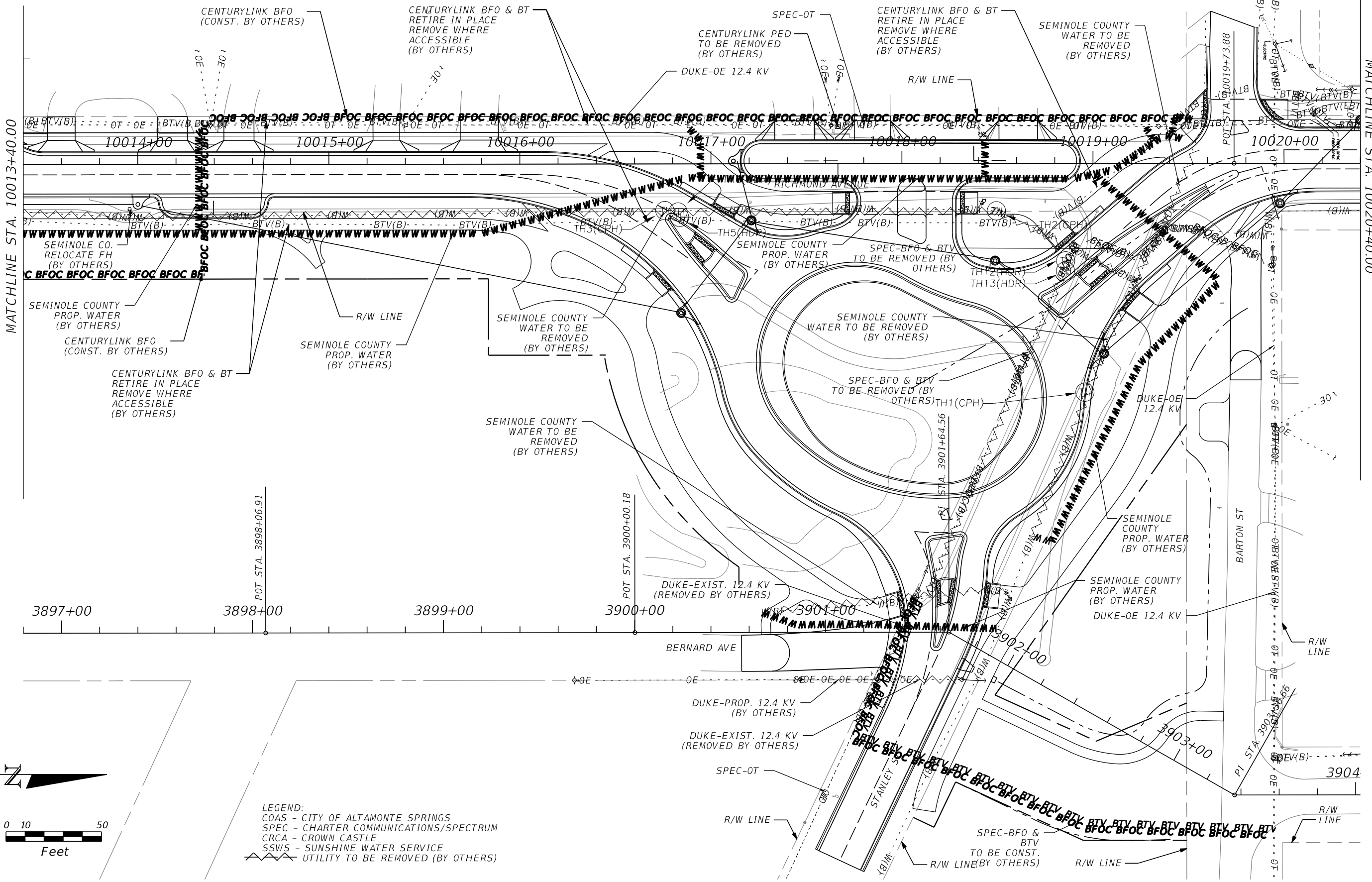
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SSWS - SUNSHINE WATER SERVICE
 Utility symbols for removal and construction.

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	

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

MATCHLINE STA. 10013+40.00

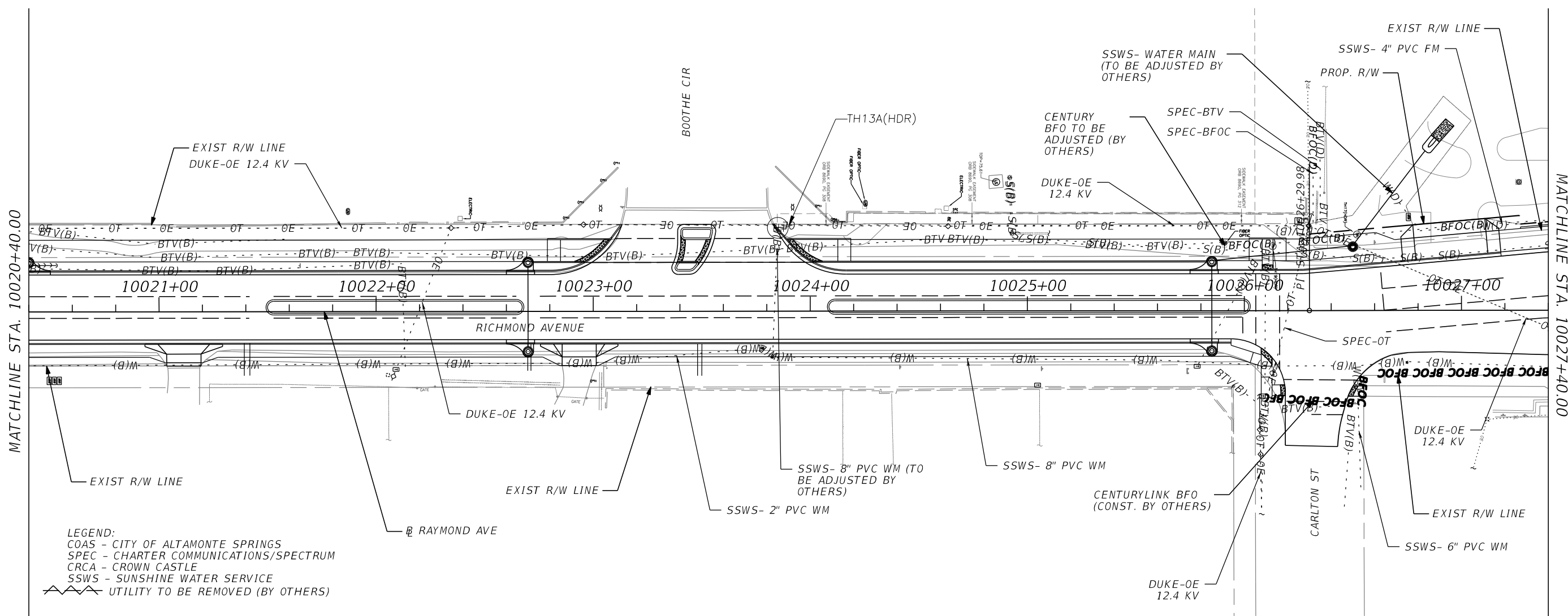
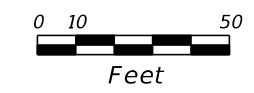
MATCHLINE STA. 10020+40.00



LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SWS - SUNSHINE WATER SERVICE
 --- UTILITY TO BE REMOVED (BY OTHERS)

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993		SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		UTILITY ADJUSTMENT	SHEET NO. U-3
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD	COUNTY CIP No.	RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

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



LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SSWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

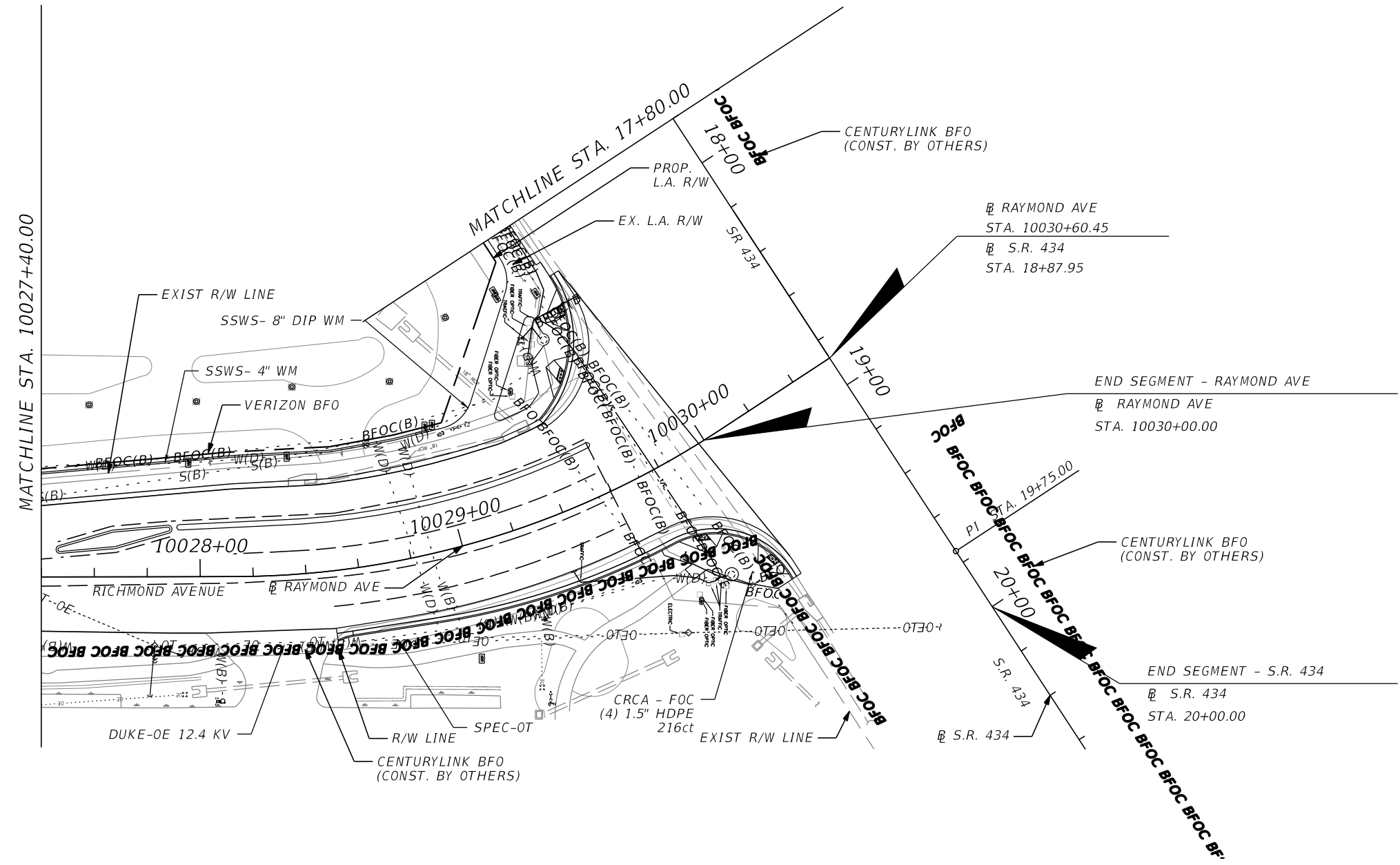
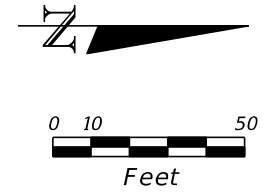
MATCHLINE STA. 10020+40.00

MATCHLINE STA. 10027+40.00

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084	

UTILITY ADJUSTMENT

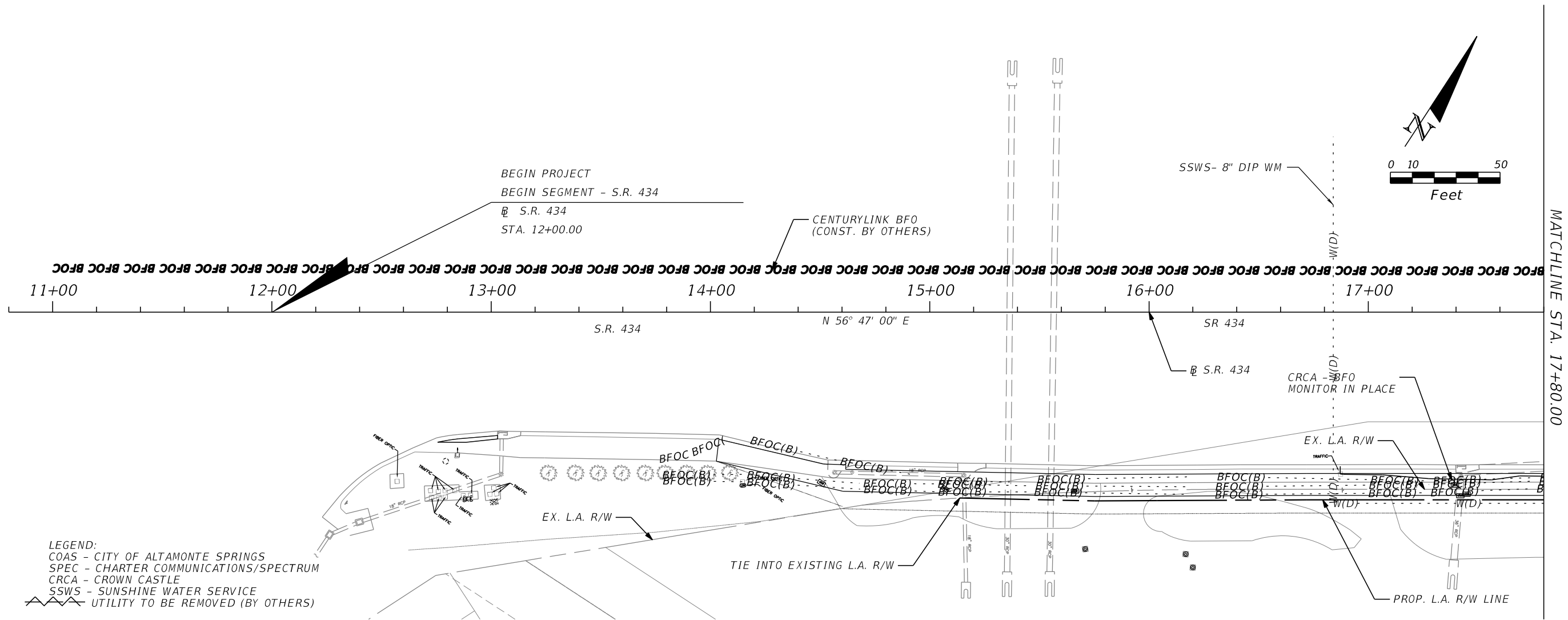
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



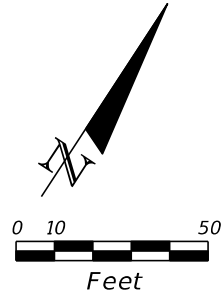
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SSWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		UTILITY ADJUSTMENT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

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



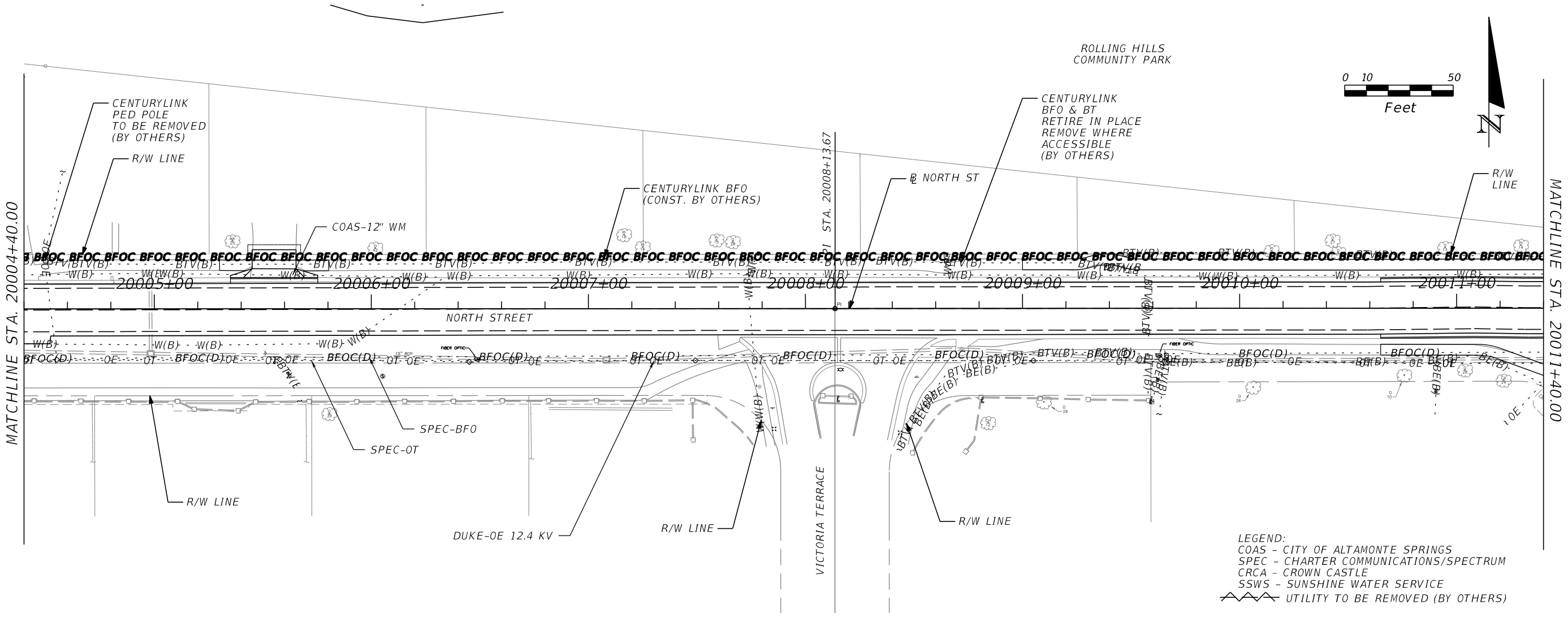
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SSWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)



MATCHLINE STA. 17+80.00

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		UTILITY ADJUSTMENT	SHEET NO. U-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084			

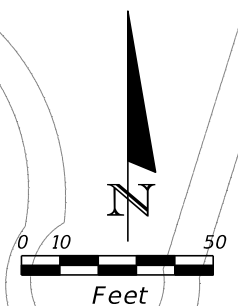
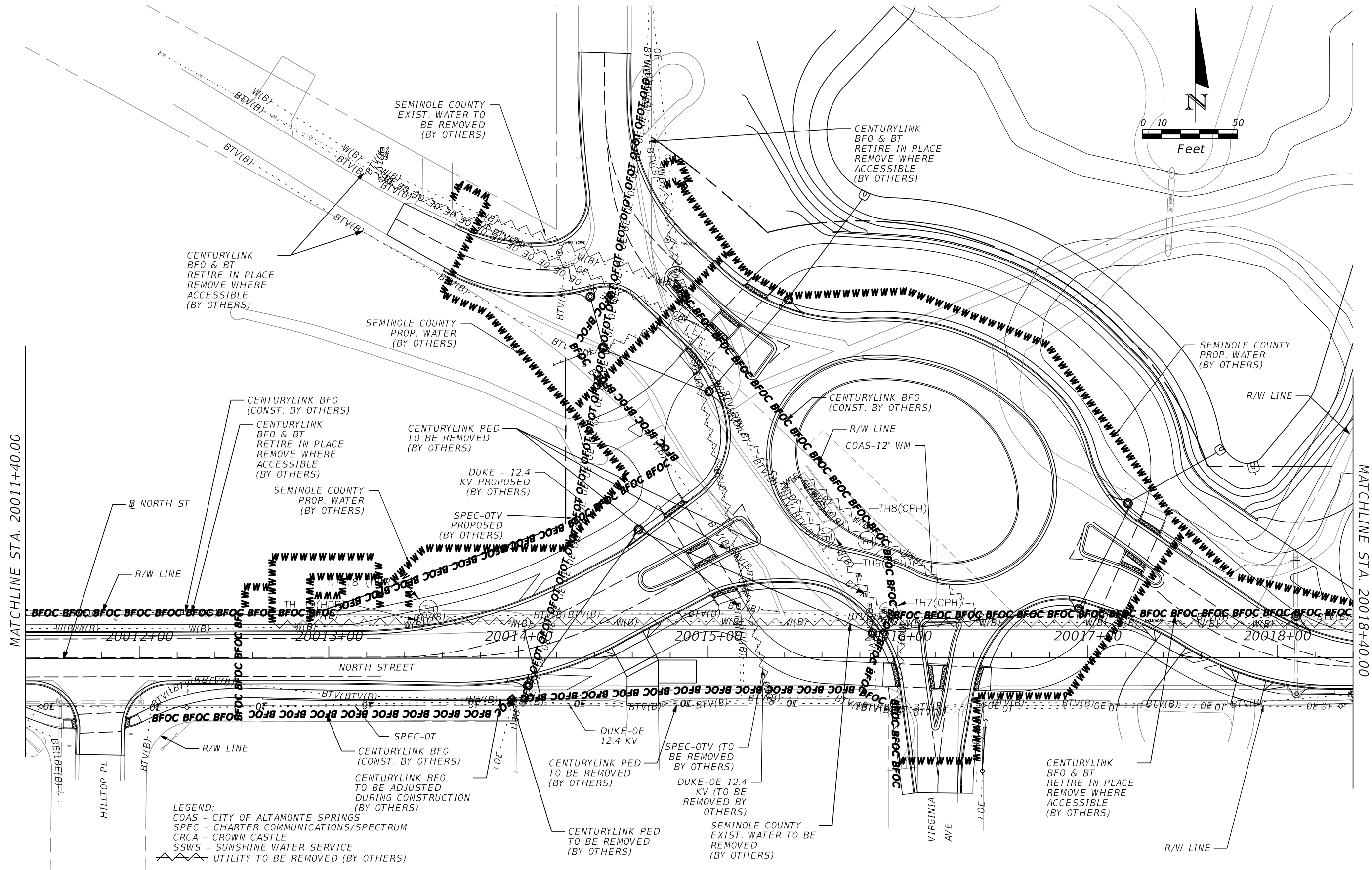
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

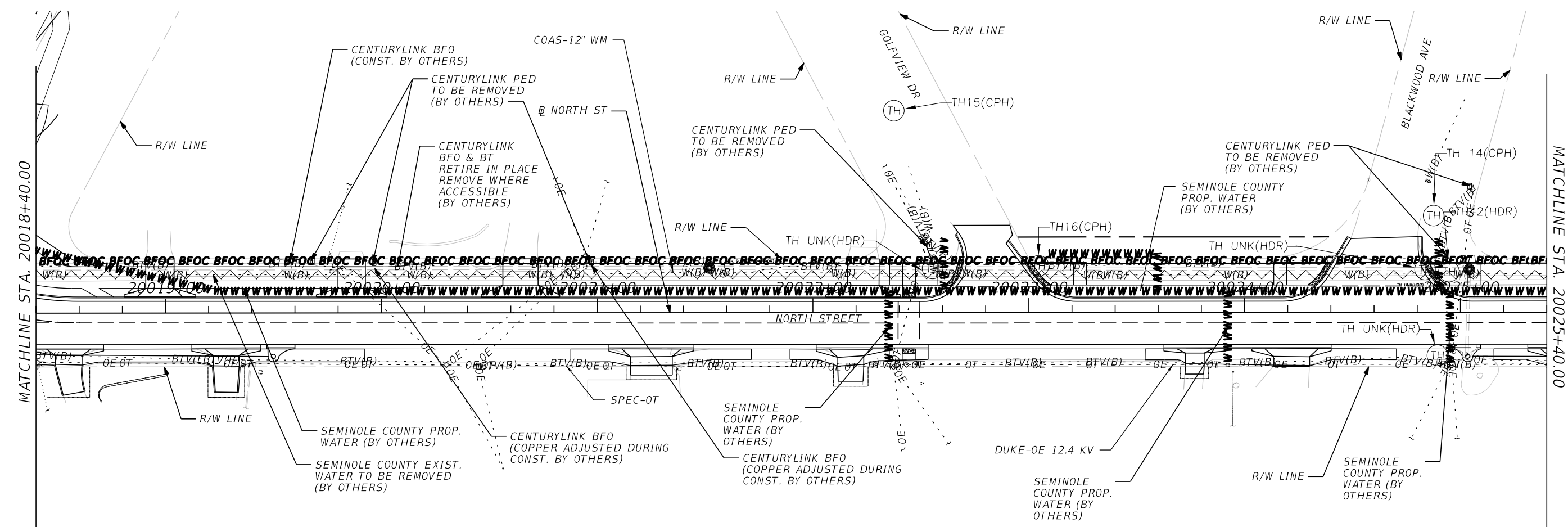
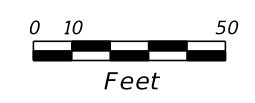
REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		<i>UTILITY ADJUSTMENT</i>	SHEET NO. U-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084			

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



REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAILAND CENTER PARKWAY SUITE 180 MAILAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	

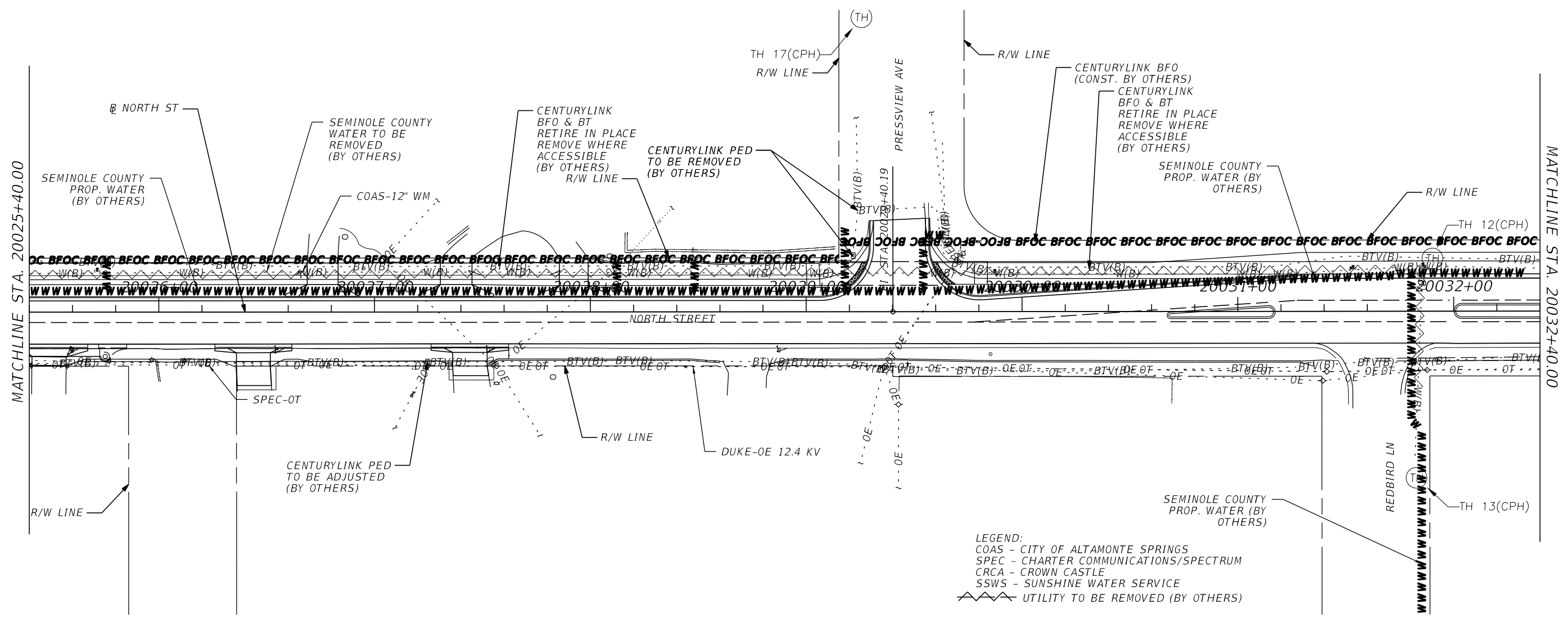
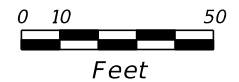
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	

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

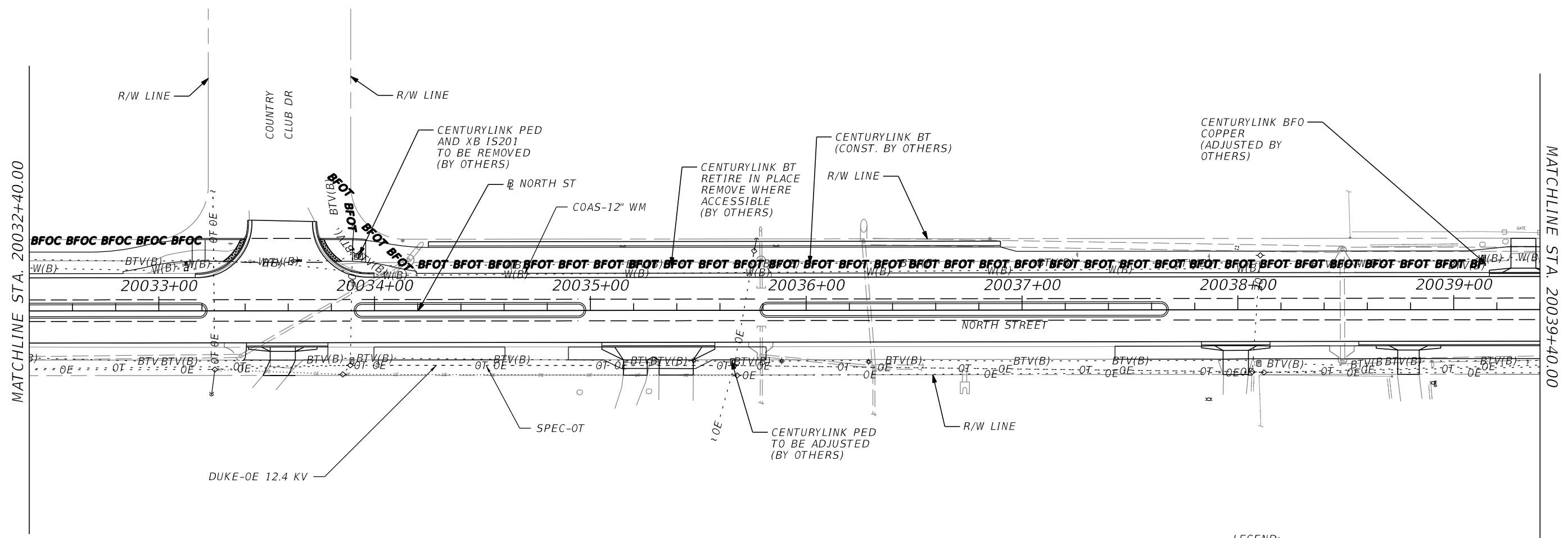
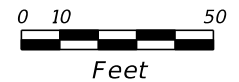


MATCHLINE STA. 20025+40.00

MATCHLINE STA. 20032+40.00

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084	

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



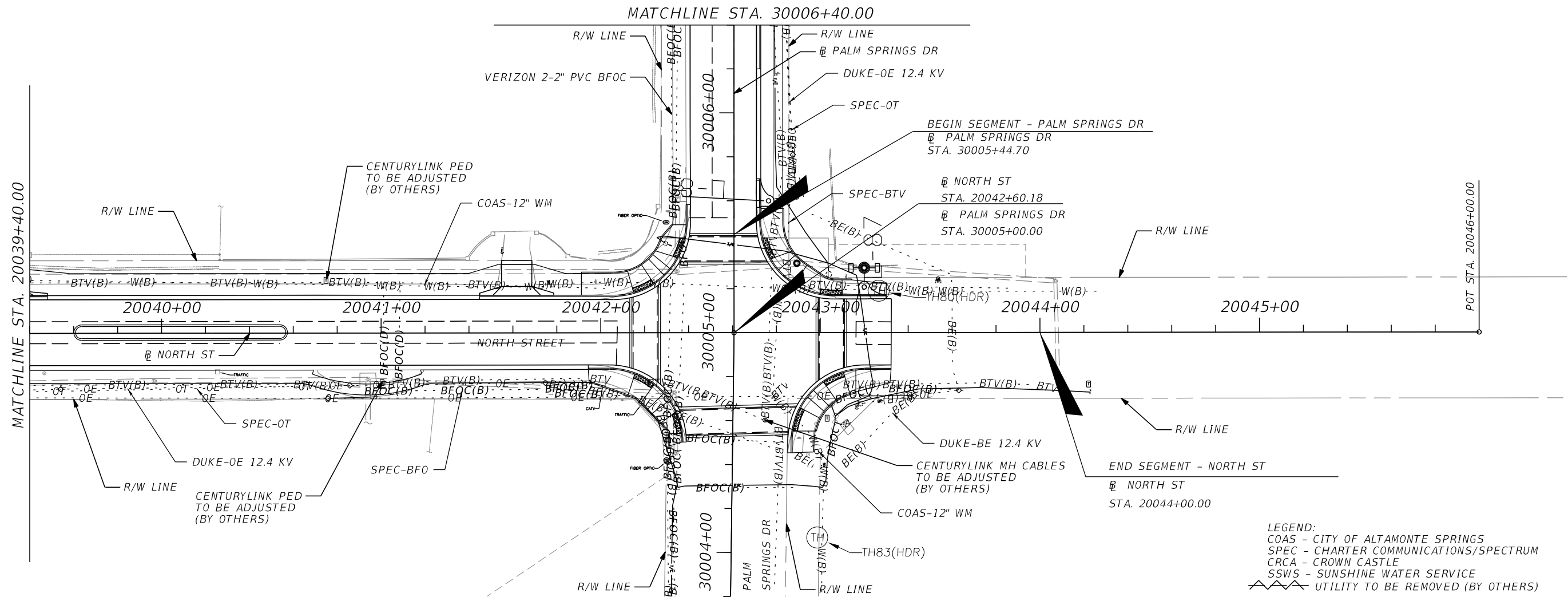
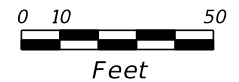
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SSWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

MATCHLINE STA. 20032+40.00

MATCHLINE STA. 20039+40.00

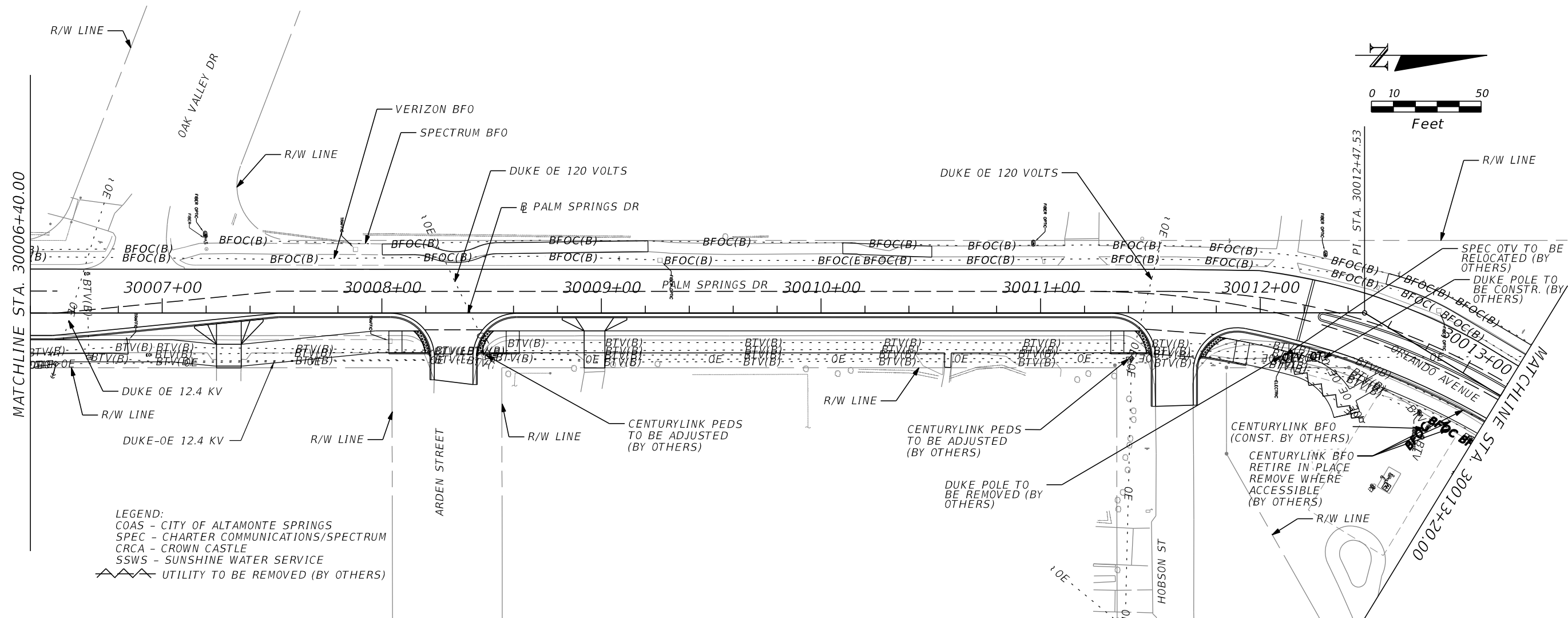
REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	

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

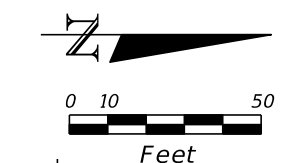


REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084	

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



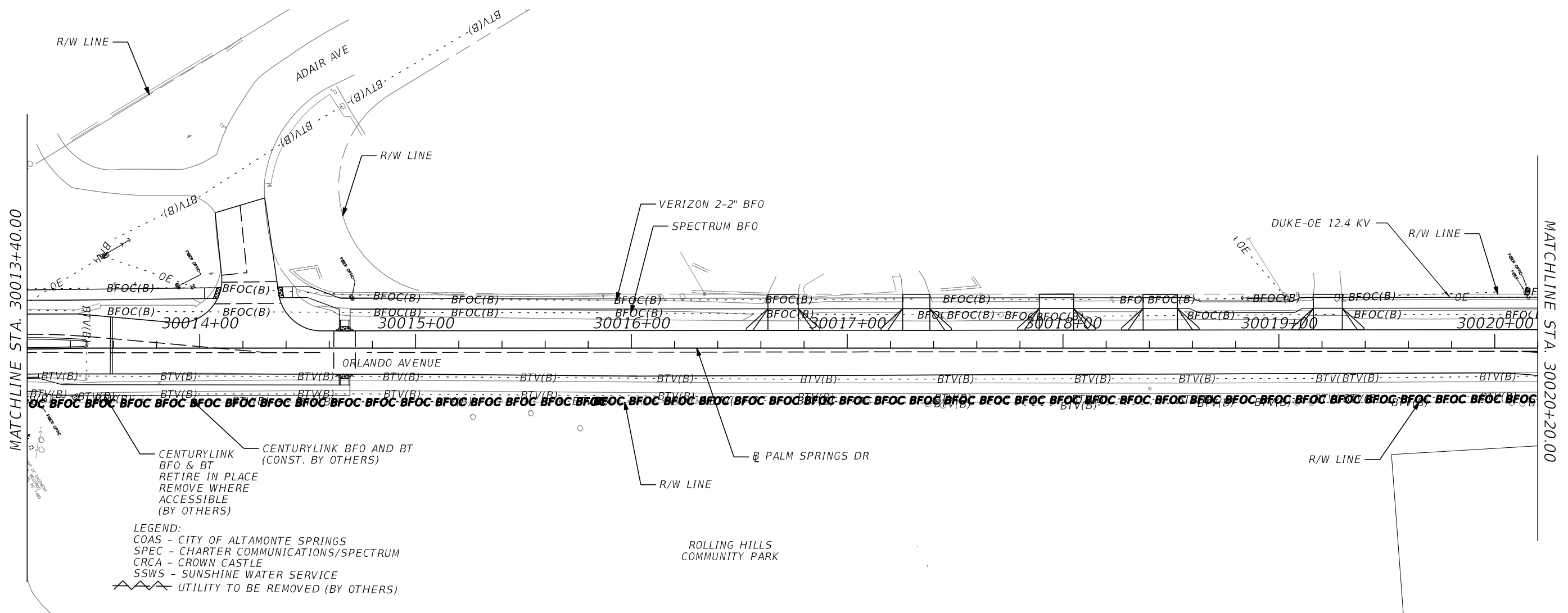
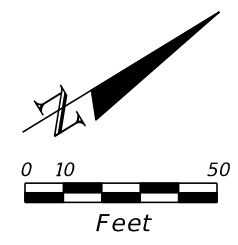
MATCHLINE STA. 30006+40.00



LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SSWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

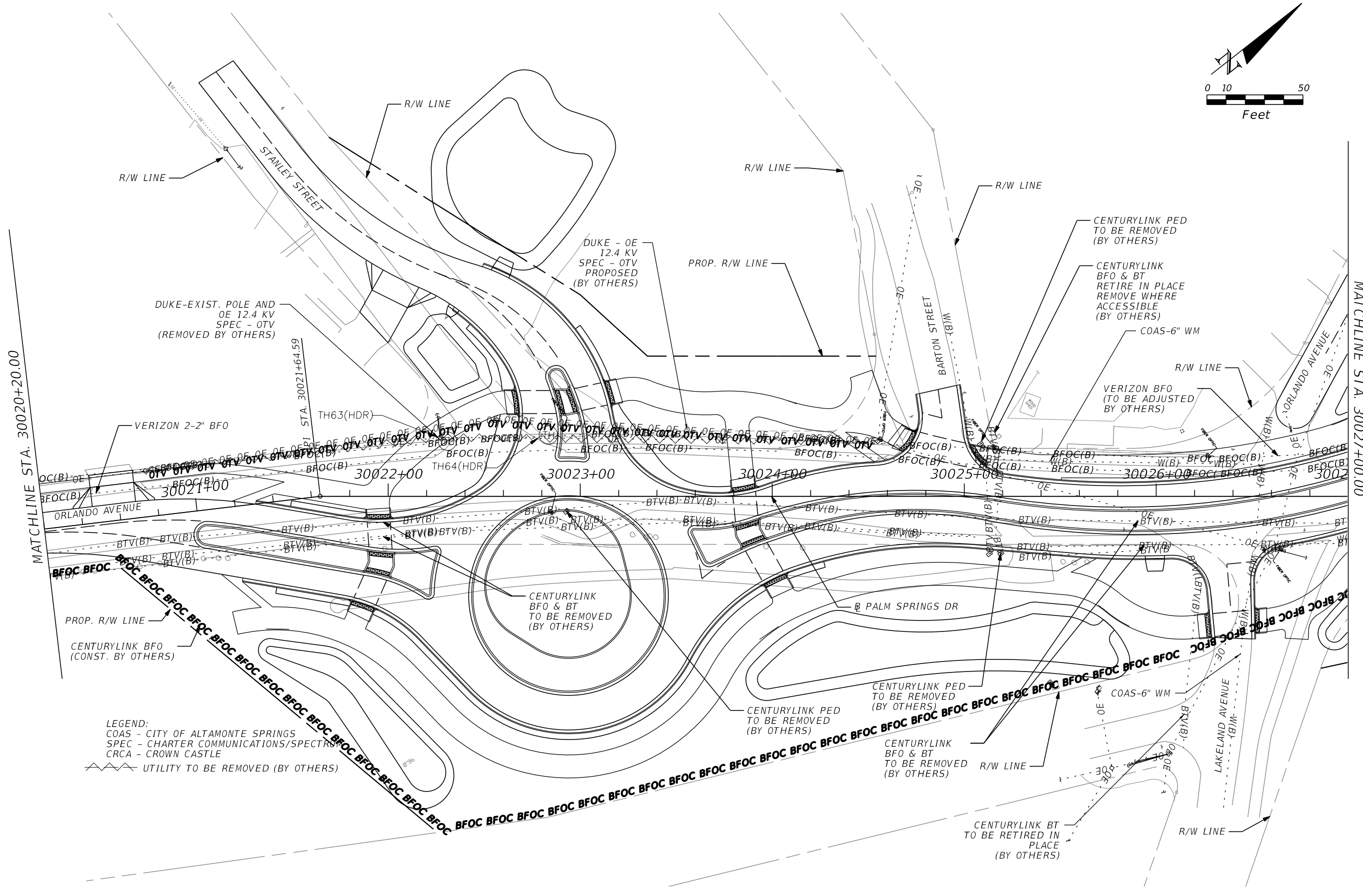
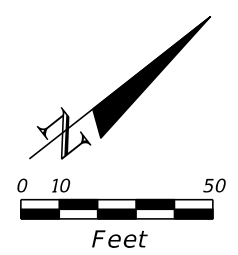
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993		SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		UTILITY ADJUSTMENT	SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD	COUNTY CIP No.					
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084				U-13	



REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	UTILITY ADJUSTMENT	

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

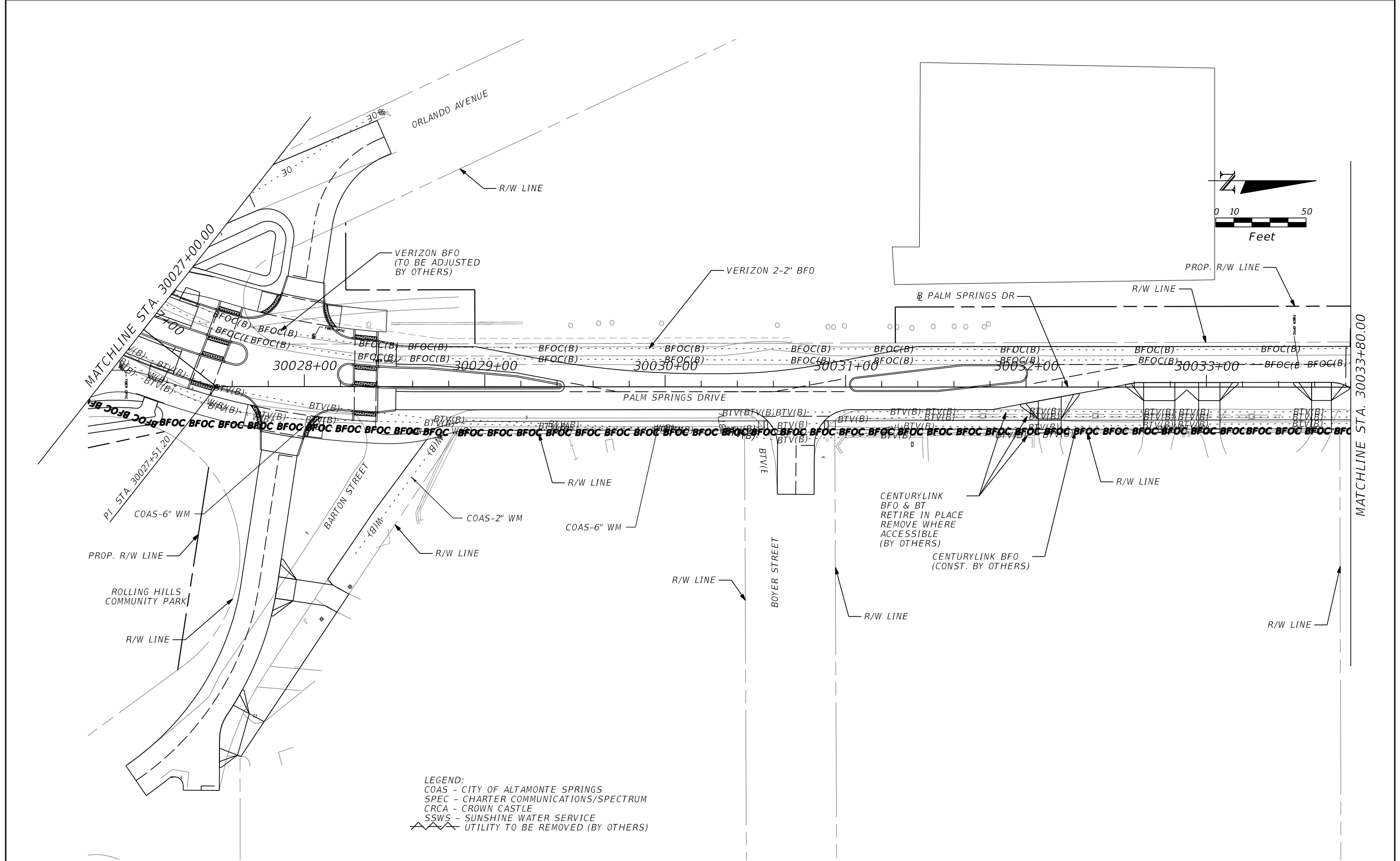


LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084	

UTILITY ADJUSTMENT

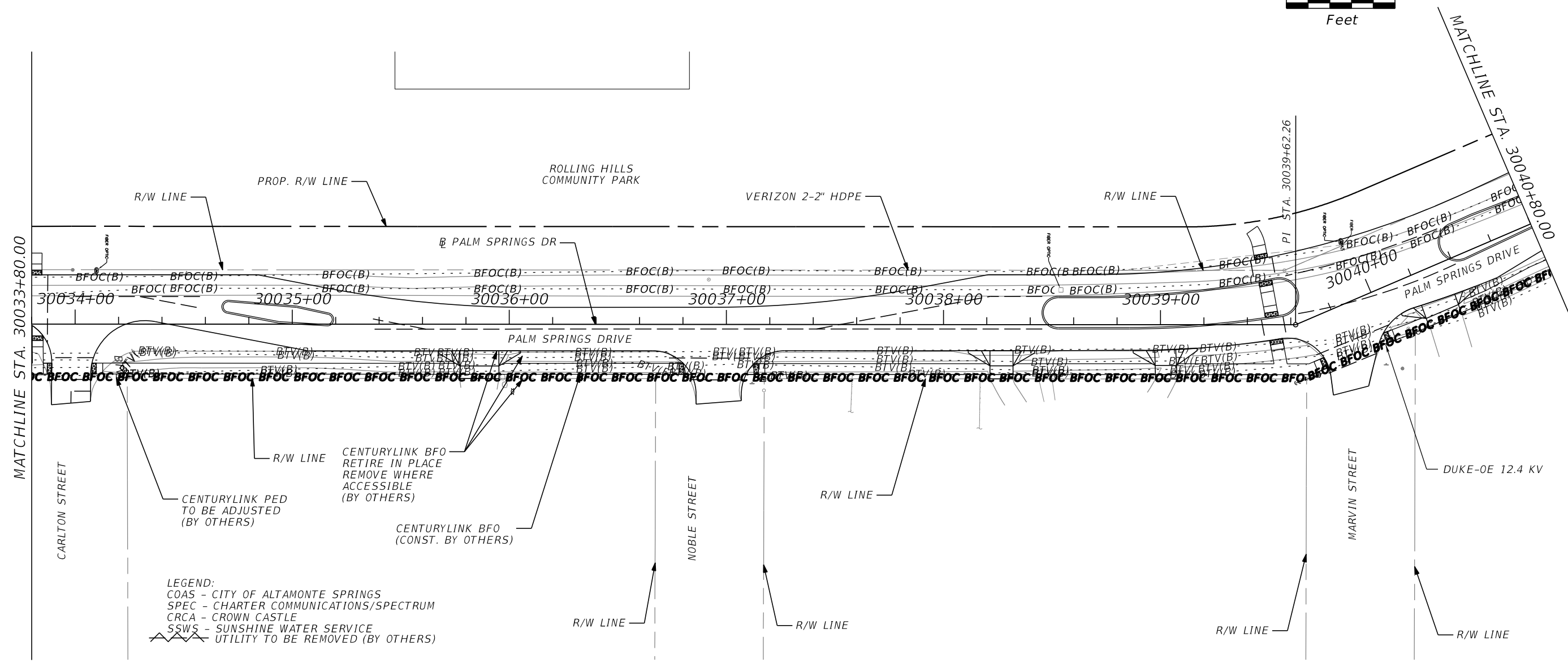
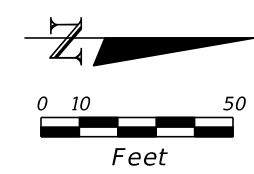
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SSWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	UTILITY ADJUSTMENT

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

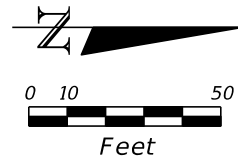


LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SSWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084	

UTILITY ADJUSTMENT

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



ROLLING HILLS
COMMUNITY PARK

PROP. R/W LINE

PALM SPRINGS DR

R/W LINE

30042+00

PALM SPRINGS DRIVE

30043+00

R/W LINE

CENTURYLINK BFO
(CONST. BY OTHERS)

CENTURYLINK
BFO & BT
RETIRE IN PLACE
REMOVE WHERE
ACCESSIBLE
(BY OTHERS)

PI ST. A. 30044+25
ROBERT STREET

SSWS- 6" PVC WM

VERIZON 2-2" HDPE

30045+00

30046+00

SSWS- 6" PVC WM

R/W LINE

30047+00

CENTURYLINK BFO
RETIRE IN PLACE
REMOVE WHERE
ACCESSIBLE
(BY OTHERS)

CENTURYLINK BFO
(CONST. BY OTHERS)

DUKE-0E 12.4 KV

SSWS- 2" PVC WM

ROXBORO ROAD

R/W LINE

SSWS- 2" PVC WM

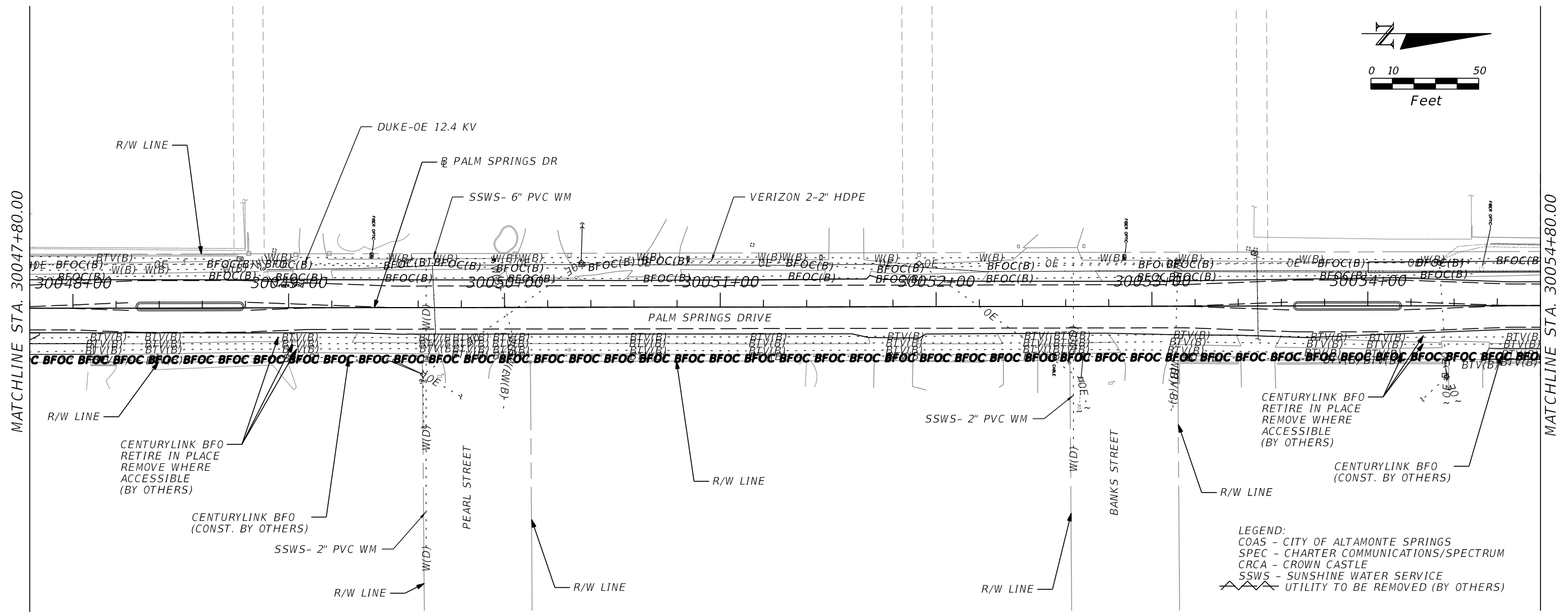
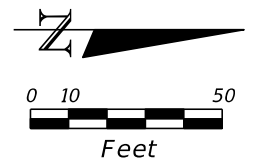
LEGEND:
COAS - CITY OF ALTAMONTE SPRINGS
SPEC - CHARTER COMMUNICATIONS/SPECTRUM
CRCA - CROWN CASTLE
SSWS - SUNSHINE WATER SERVICE
UTILITY TO BE REMOVED (BY OTHERS)

MATCHLINE STA. 30047+80.00

MATCHLINE STA. 30048+80.00

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084	

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



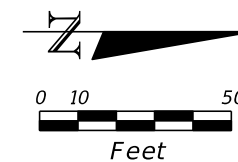
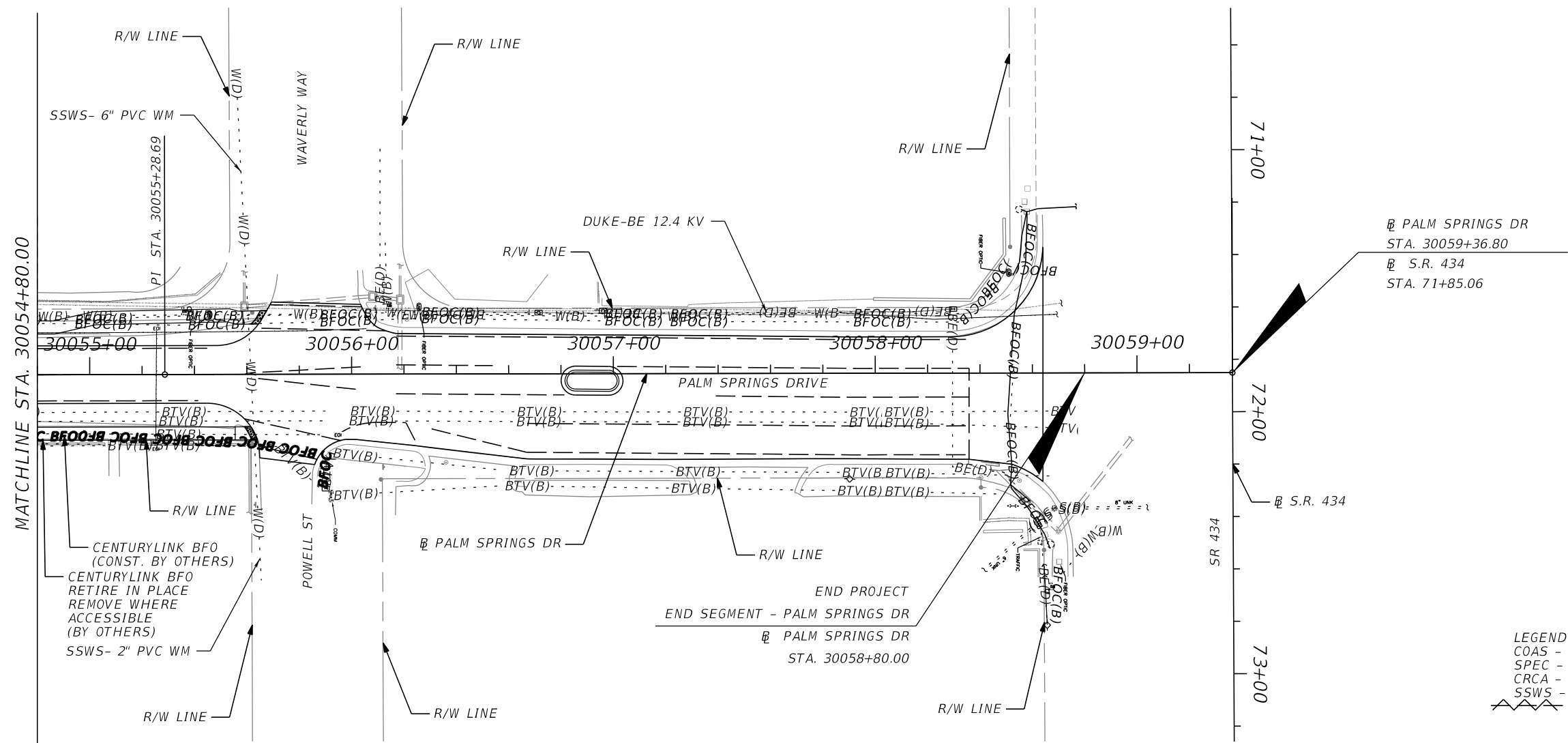
MATCHLINE STA. 30047+80.00

MATCHLINE STA. 30054+80.00

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	

UTILITY ADJUSTMENT

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



LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 SWS - SUNSHINE WATER SERVICE
 UTILITY TO BE REMOVED (BY OTHERS)

MATCHLINE STA. 30054+80.00

REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	

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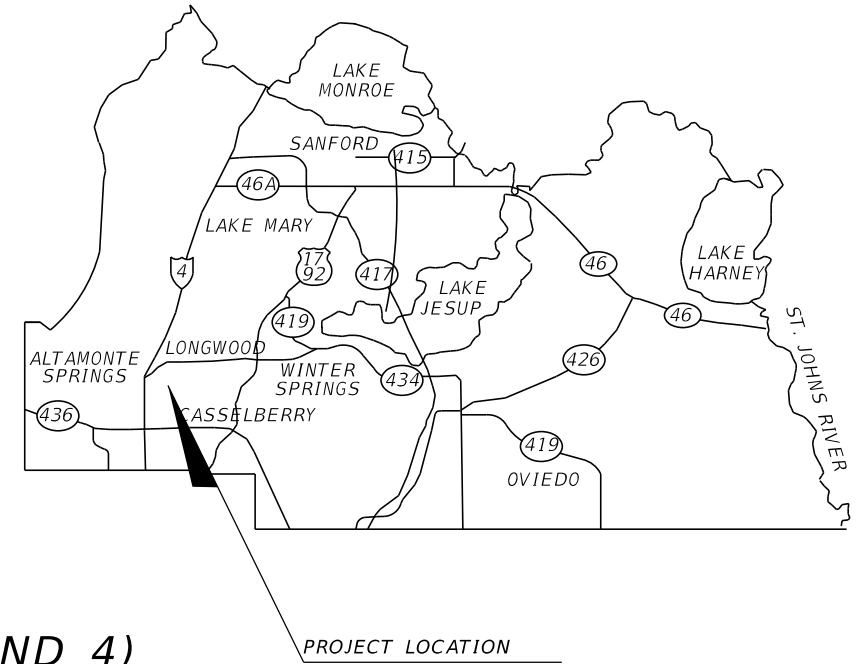
*SEMINOLE COUNTY
ENGINEERING DIVISION*

CONTRACT PLANS



*ROLLING HILLS AREA ROADWAYS PHASE 1
SEMINOLE COUNTY CIP No. 01907084 (DISTRICT 3 AND 4)*

SIGNING AND PAVEMENT MARKING PLANS



*INDEX OF SIGNING AND
PAVEMENT MARKING PLANS*

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
S-1	KEY SHEET
S-2 - S-5	TABULATION OF QUANTITIES
S-6	GENERAL NOTES
S-7 - S-26	SIGNING AND PAVEMENT MARKING PLANS
S-27 - S-30	PAVEMENT MARKING DETAIL
S-31 - S- 33	GUIDE SIGN WORKSHEET

*SIGNING & PAVEMENT MARKING PLANS
ENGINEER OF RECORD:*

*JINHAO MAI, PE
PE LICENSE NO. 91872
HDR ENGINEERING, INC.
315 E. ROBINSON STREET, SUITE 400
ORLANDO, FL 32801*

COUNTY PROJECT MANAGER:

*SAM MOUSSA, PE
ENGINEERING DIVISION
100 EAST 1st STREET
SANFORD, FL 32771*

<i>FISCAL YEAR</i>	<i>SHEET NO.</i>
23-24	S-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS										TOTAL THIS SHEET			
			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		
0654 2 22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS														2
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	9		7		23		4		7		3			53
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS			1		1				1					3
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30SF	AS									1					1
0700 1 50	SINGLE POST SIGN, RELOCATE	AS									1					1
0700 1 60	SINGLE POST SIGN, REMOVE	AS	5		4		7		1		10		4			31
0700 2 50	MULTI-POST SIGN, GROUND MOUNT, RELOCATE	AS											1			1
0700 142 111	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, F&I GROUND MOUNT,W/BEACON, UP TO 12 SF OF STATIC SIGN PANELS	EA														
0704 1 4	TUBULAR MARKER, 36" YELLOW POST	EA											20			20
0705 10 4	OBJECT MARKER, TYPE 4	EA									2					2
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B															
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL WHITE / RED)	EA											29			29
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL YELLOW / YELLOW)	EA	36		36		54		8		40		2			176
	RAISED PAVEMENT MARKERS (MONO-DIRECTIONAL / YELLOW)	EA														
0710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF							2.35		35.34		4.0			42
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS											1			1
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.253		0.285		0.304		0.003		0.381		0.214			1
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	179		189		193				211		168			940
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	257		63		352		73		350		175			1270
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM											0.048			0.048
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT., 6"	GM											0.022			0.022
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM					0.011									0.011
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA			2		2									4
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA									1		9			10
*	PAINTED PAVEMENT MESSASG OR SYMBOL, STANDARD, WHITE	EA					3						2			5
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.247		0.255		0.252		0.048		0.257		0.118			1.178
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF					112		8		164		4			288
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM									0.071					0.071
0711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	179		189		193				211		168			940
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	52		13		37				83		45			230
0711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA			2		2									4
0711 11 131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM											0.048			0.048
0711 11 141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM											0.022			0.022
0711 11 144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM					0.011									0.011
0711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA					3						2			5
0711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA									1		9			10
0711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF					112		8		164		4			288
0711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM									0.071					0.071
0711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	205		50		315		73		267		130			1040
0711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.253		0.285		0.304		0.003		0.381		0.214			1.441
0711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.247		0.255		0.252		0.048		0.257		0.118			1.178
0921 703 100	CHANNELIZING CRUB, CENTERLINE	LF											84			84

* 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			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E. LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

TABULATION OF QUANTITIES

SHEET NO.
S-2

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				
			S-13		S-14		S-15		S-16		S-17		S-18		PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
0654 2 22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS							2							2	
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS			2		22		6		3		2			35	
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS					1									1	
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30SF	AS							1							1	
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	6							2			1			9	
0700 1 60	SINGLE POST SIGN, REMOVE	AS			3		9		2				2			16	
0700 2 50	MULTI-POST SIGN, GROUND MOUNT, RELOCATE	AS															
0700 142 111	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, F&I GROUND MOUNT,W/BEACON, UP TO 12 SF OF STATIC SIGN PANELS	EA					1									1	
0704 1 4	TUBULAR MARKER, 36" YELLOW POST	EA															
0705 10 4	OBJECT MARKER, TYPE 4	EA															
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B																
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL WHITE / RED)	EA															
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL YELLOW / YELLOW)	EA			30		130		32		42		2			236	
	RAISED PAVEMENT MARKERS (MONO-DIRECTIONAL / YELLOW)	EA					26				20		50			96	
0710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF					26.7				23.5		44.2			94	
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS															
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM			0.237		0.444		0.264		0.259		0.254			1.458	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF			90		173		40							303	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF			12		303		224		132					671	
*	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															
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM					0.011									0.011	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA															
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA															
*	PAINTED PAVEMENT MESSASG OR SYMBOL, STANDARD, WHITE	EA					4									4	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM			0.206		0.488		0.223		0.226		0.147			1.289	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF					318				28		4			350	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM					0.010				0.052		0.101			0.162	
0711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF			90		173		40							303	
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF			12		12		46		27					97	
0711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA															
0711 11 131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM															
0711 11 141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM															
0711 11 144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM					0.011									0.011	
0711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA					4									4	
0711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA															
0711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF					318				28		4			350	
0711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM					0.010				0.052		0.101			0.162	
0711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF					291		178		105					574.000	
0711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM			0.237		0.444		0.264		0.259		0.254			1.458	
0711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM			0.206		0.488		0.223		0.226		0.147			1.289	
0921 703 100	CHANNELIZING CRUB, CENTERLINE	LF															

* 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			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E. LICENSE NO. 91872
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

TABULATION OF QUANTITIES

SHEET NO.
 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	
			S-19		S-20		S-21		S-22		S-23		S-24		PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
0654 2 22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS														
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	4		4		19		10		4		8		49	
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	1		1				2		1		1		6	
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30SF	AS							2				1		3	
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	2		1										3	
0700 1 60	SINGLE POST SIGN, REMOVE	AS	5		2		5		13		2		7		34	
0700 2 50	MULTI-POST SIGN, GROUND MOUNT, RELOCATE	AS														
0700 142 111	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, F&I GROUND MOUNT,W/BEACON, UP TO 12 SF OF STATIC SIGN PANELS	EA														
0704 1 4	TUBULAR MARKER, 36" YELLOW POST	EA														
0705 10 4	OBJECT MARKER, TYPE 4	EA														
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B															
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL WHITE / RED)	EA	10												10	
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL YELLOW / YELLOW)	EA	36		62		68		18		112		62		358	
	RAISED PAVEMENT MARKERS (MONO-DIRECTIONAL / YELLOW)	EA					20		34		40		62		156	
0710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF			7.42		20.05		37.37		35.06		60.13		160	
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS														
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.274		0.304		0.386		0.381		0.276		0.268		2	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF			150				59		244		448		901	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	513		101		219		508		47		98		1486	
*	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														
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM					0.01								0.008	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA							4						4	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	4						1						5	
*	PAINTED PAVEMENT MESSASG OR SYMBOL, STANDARD, WHITE	EA					3								3	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.205		0.331		0.376		0.383		0.373		0.277		1.946	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	7		65		109		32		192		56		461	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM							0.02				0.07		0.088	
0711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF			150				59		244		448		901	
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	71		21				77		19		34		222	
0711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA							4						4	
0711 11 131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM														
0711 11 141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM														
0711 11 144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM					0.008								0.008	
0711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA					3								3	
0711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	4						1						5	
0711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	7		65		109		32		192		56		461	
0711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM							0.016				0.072		0.088	
0711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	442		80		219		431		28		64		1264	
0711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.274		0.304		0.386		0.381		0.276		0.268		1.888	
0711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.205		0.331		0.376		0.383		0.373		0.277		1.946	
0921 703 100	CHANNELIZING CRUB, CENTERLINE	LF														

* 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			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E. LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD: RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.
 COUNTY CIP No.: 01907084

TABULATION OF QUANTITIES

SHEET NO.
 S-4

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-25		S-26		PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL								
0654 2 22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS												4
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	1		2							3		140
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS												10
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30SF	AS												5
0700 1 50	SINGLE POST SIGN, RELOCATE	AS												13
0700 1 60	SINGLE POST SIGN, REMOVE	AS	2		3							5		86
0700 2 50	MULTI-POST SIGN, GROUND MOUNT, RELOCATE	AS												1
0700 142 111	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, F&I GROUND MOUNT,W/BEACON, UP TO 12 SF OF STATIC SIGN PANELS	EA												1
0704 1 4	TUBULAR MARKER, 36" YELLOW POST	EA												20
0705 10 4	OBJECT MARKER, TYPE 4	EA												2
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B													
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL WHITE / RED)	EA			12							12		51
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL YELLOW / YELLOW)	EA	62		48							110		880
	RAISED PAVEMENT MARKERS (MONO-DIRECTIONAL / YELLOW)	EA			12							12		264
0710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	6.98		24.00							31		327
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS												1
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.243		0.225							0.468		5.255
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF			405							405		2549
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF			169							169		3596
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM												0.048
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT., 6"	GM			0.009							0.01		0.030
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM												0.030
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA												8
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA												15
*	PAINTED PAVEMENT MESSASG OR SYMBOL, STANDARD, WHITE	EA												12
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.270		0.196							0.466		4.880
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	18		23							41		1140
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM			0.020							0.02		0.341
0711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF			405							405		2549
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF			33							33		582
0711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA												8
0711 11 131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM												0.048
0711 11 141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM			0.01							0.009		0.030
0711 11 144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM												0.030
0711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA												12
0711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA												15
0711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	18		23							41		1140
0711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM			0.020							0.020		0.341
0711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF			136							136		3014
0711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.243		0.225							0.468		5.255
0711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.270		0.196							0.466		4.880
0921 703 100	CHANNELIZING CRUB, CENTERLINE	LF												84

* 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			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E. LICENSE NO. 91872
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD COUNTY CIP No.
 RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR. 01907084


TABULATION OF QUANTITIES

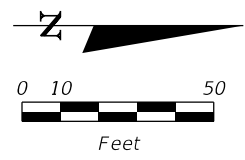
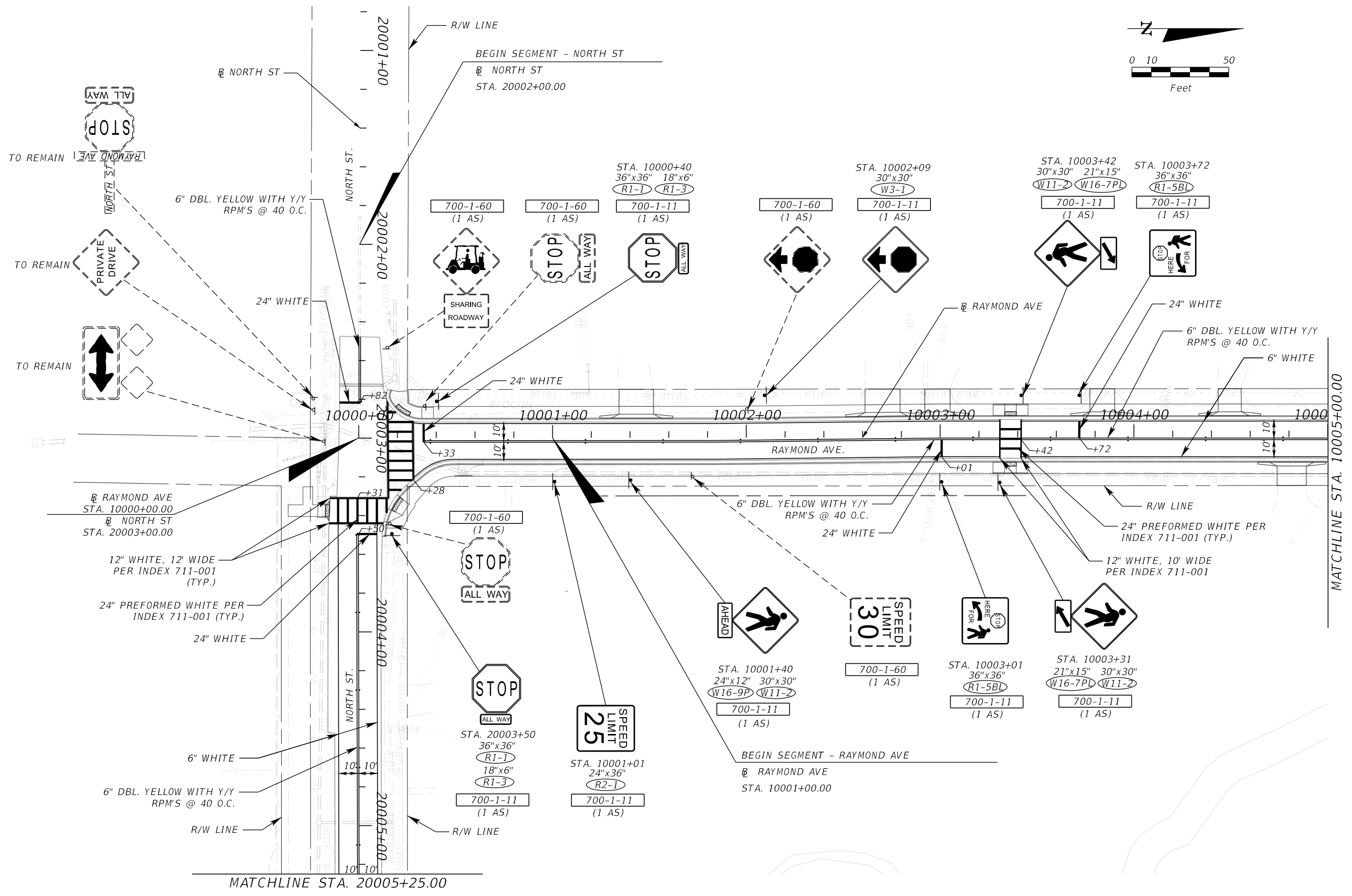
SHEET NO.
 S-5

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

GENERAL NOTES

1. SIGNING AND PAVEMENT MARKINGS SHALL FOLLOW THE FDOT 2022-2023 EDITION OF THE FDOT STANDARD PLANS FOR ROAD CONSTRUCTION.
2. FOR SIGN DETAILS, REFER TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND THE 2012 SUPPLEMENT, PUBLISHED BY U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
3. SIGN PLACEMENT SHOWN IN PLANS IS APPROXIMATE. THE CONTRACTOR SHALL ADHERE TO THE MUTCD 2009 WITH REVISION NUMBERS 1 & 2 DATED MAY 2012 AND THE FDOT DESIGN STANDARDS FOR SIGN PLACEMENT OR AS DIRECTED BY THE ENGINEER.
4. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO MATCH THE PROPOSED PAVEMENT MARKINGS WITH EXISTING, IN TERM OF COLOR AND ALIGNMENT.
6. REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF PROJECT IN ACCORDANCE WITH INDEX NO. 706-001.
7. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
8. ALL SIGNS TO BE REMOVED SHALL BE DELIVERED TO:
 SEMINOLE COUNTY TRAFFIC OPERATIONS
 140 BUSH LOOP
 SANFORD, FLORIDA 32773
 (407) 665-5677
9. ALL SPECIAL EMPHASIS CROSSWALKS WILL BE 10' WIDE MEASURED INSIDE TO INSIDE OF THE 12" WHITE LINES UNLESS OTHERWISE NOTED ON PLAN SHEETS.

REVISIONS				 JINHAO MAI, P.E. LICENSE NO. 91872 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		S-6



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
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 PHONE 407.420.4200
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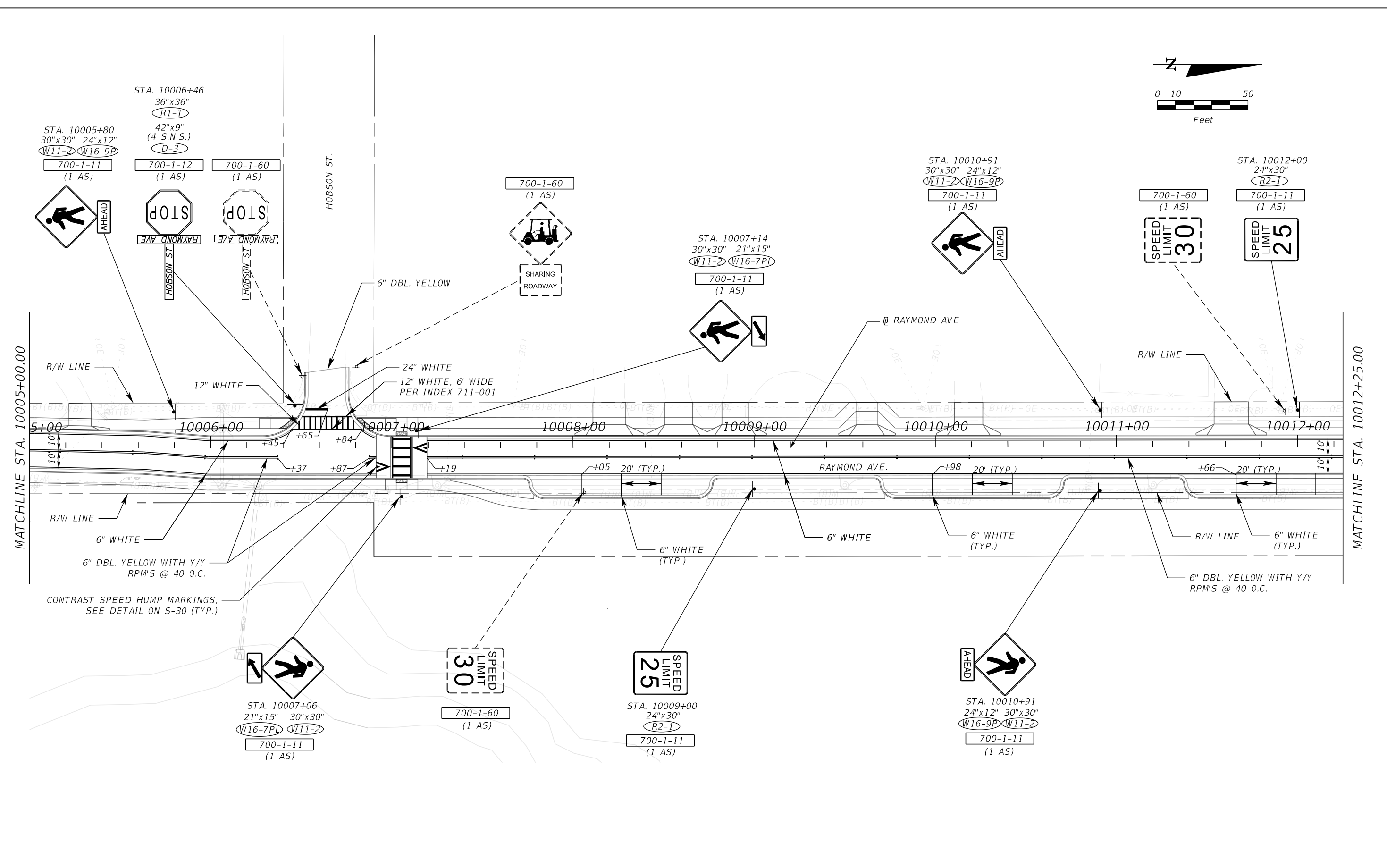
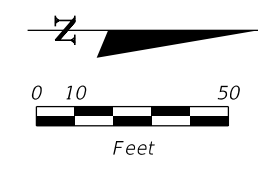
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND PAVEMENT MARKING PLANS
RAYMOND AVENUE (1)


SHEET NO.
S-7

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REVISIONS			
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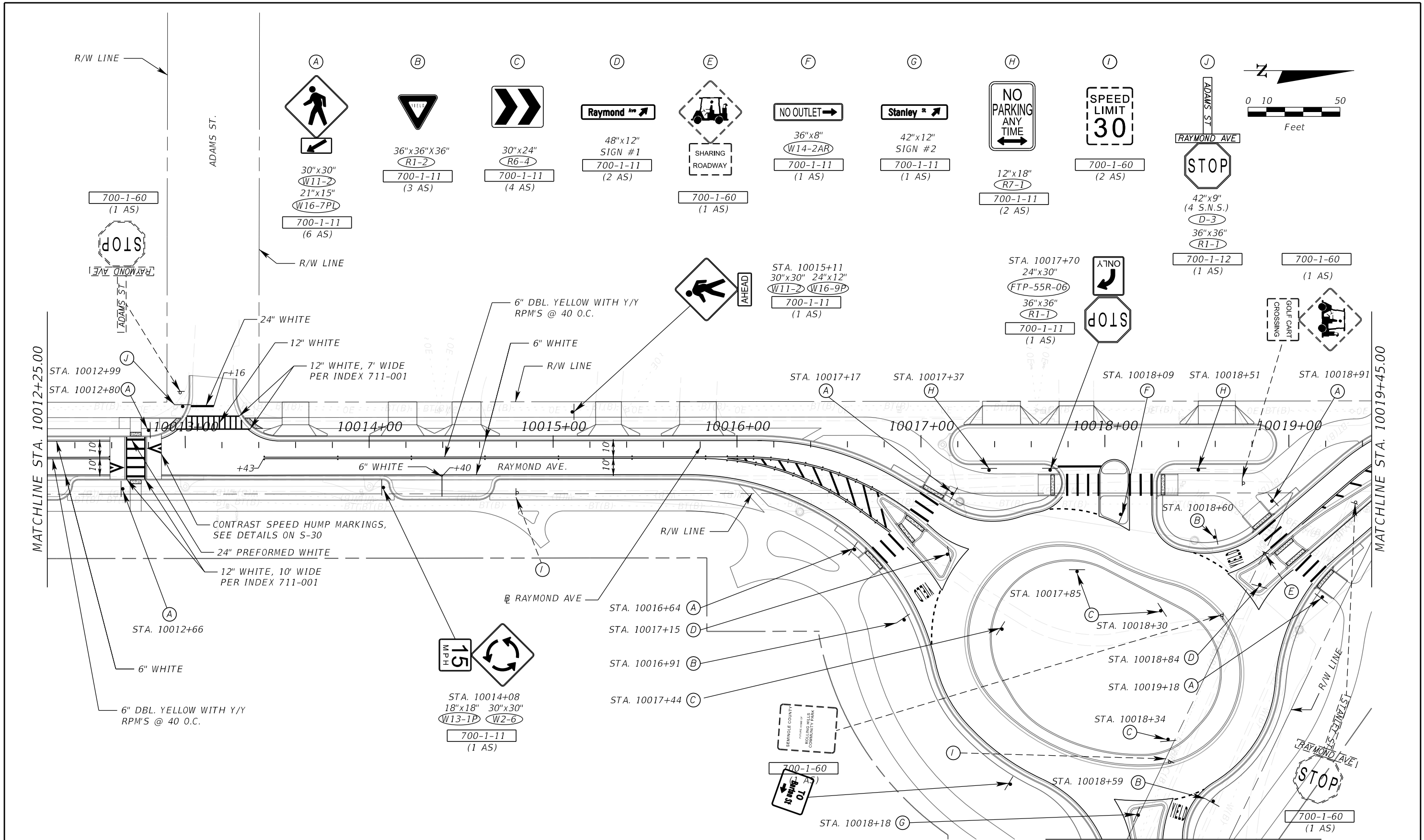
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 RAYMOND AVENUE (2)

SHEET NO.
 S-8

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NOTES:
 1. SEE SHEET S-27 FOR STRIPING DETAILS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE No. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
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 FAX 407.420.4242



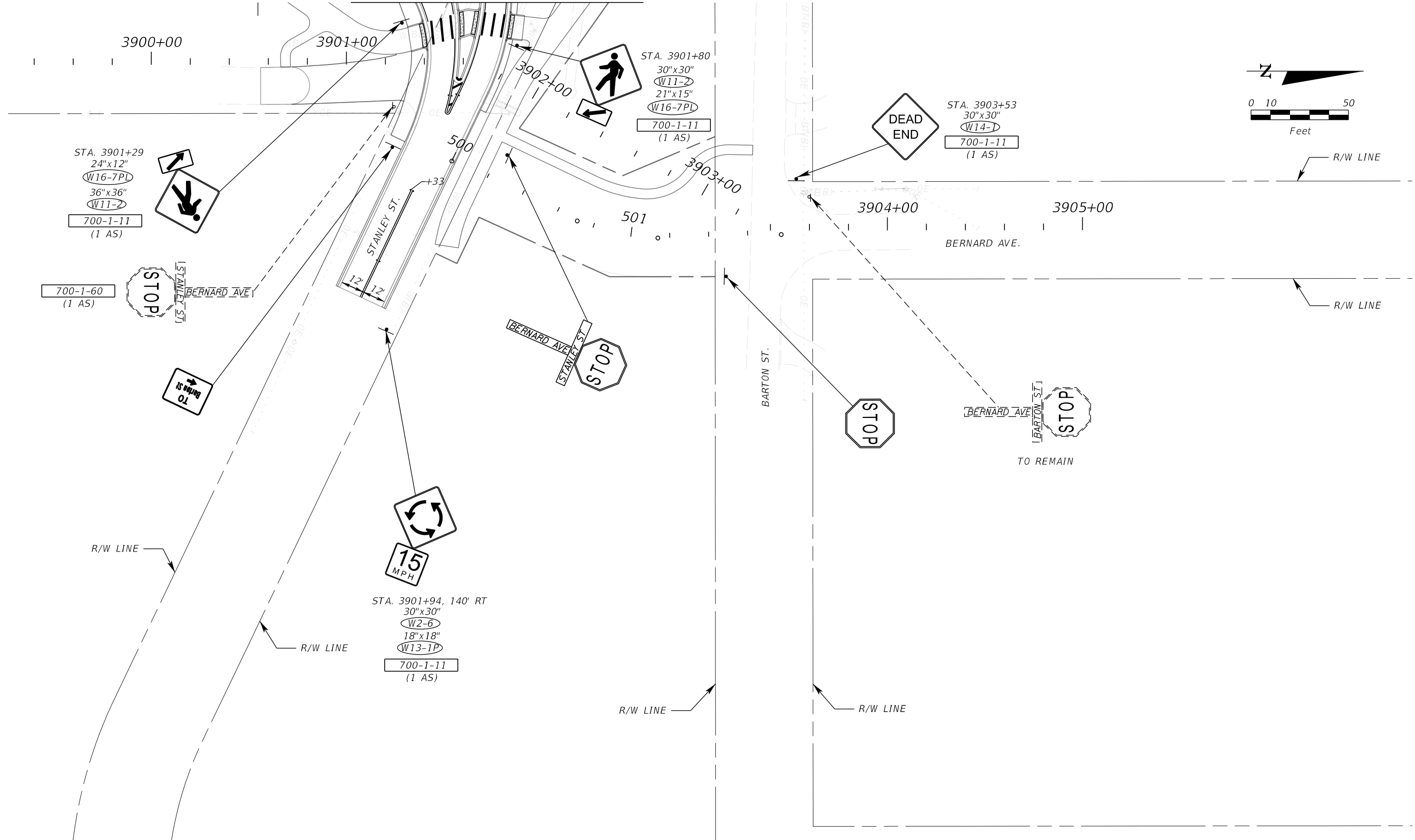
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 RAYMOND AVENUE (3)

SHEET NO.
 S-9

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MATCHLINE SHEET S-9



NOTES:
1. SEE SHEET S-27 FOR STRIPING DETAILS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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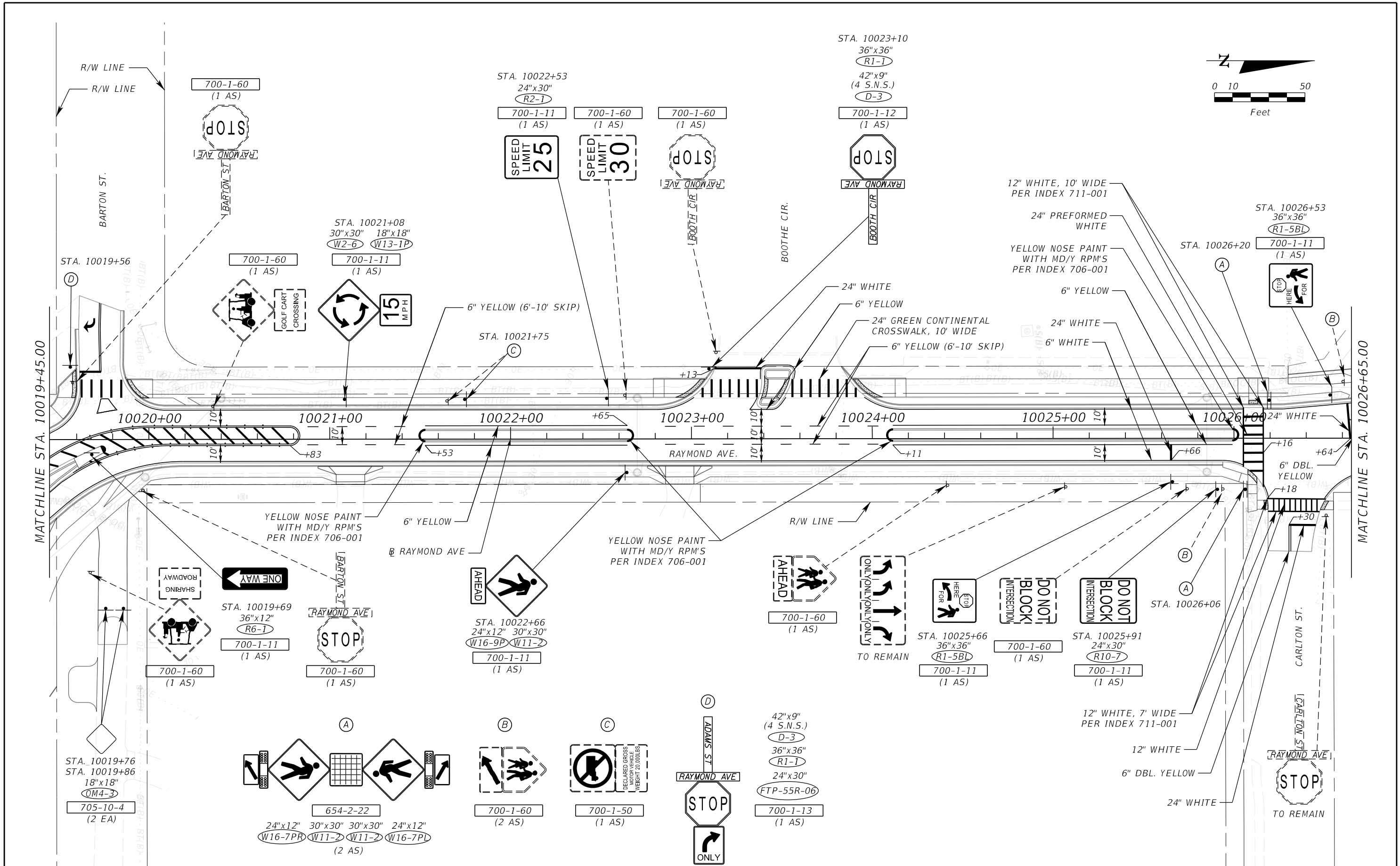


SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1	
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
PAVEMENT MARKING PLANS
RAYMOND AVENUE (4)


SHEET
NO.
S-10

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REVISIONS			
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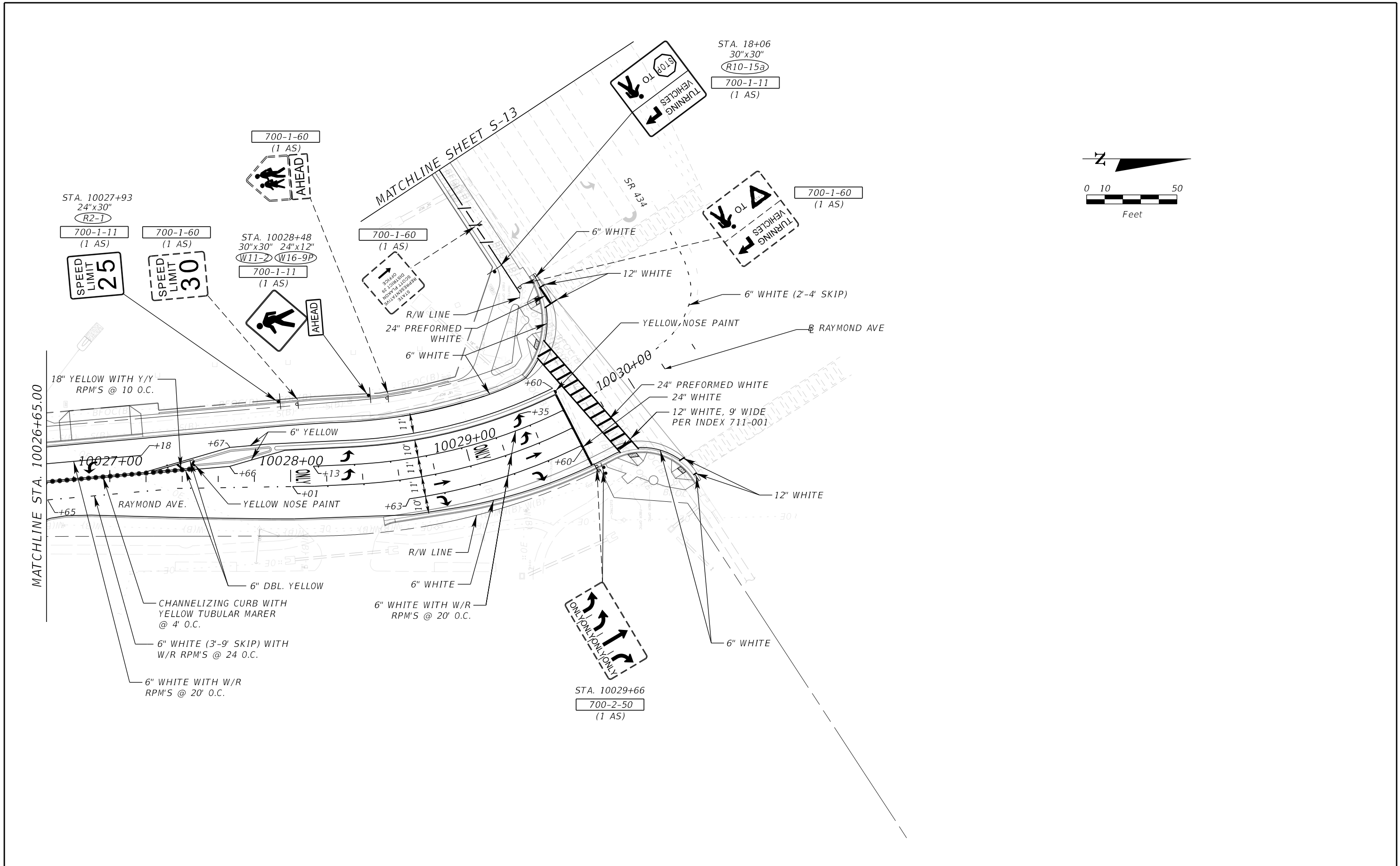
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND PAVEMENT MARKING PLANS
RAYMOND AVENUE (5)


SHEET NO.
 S-11

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REVISIONS			
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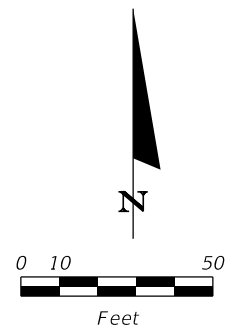
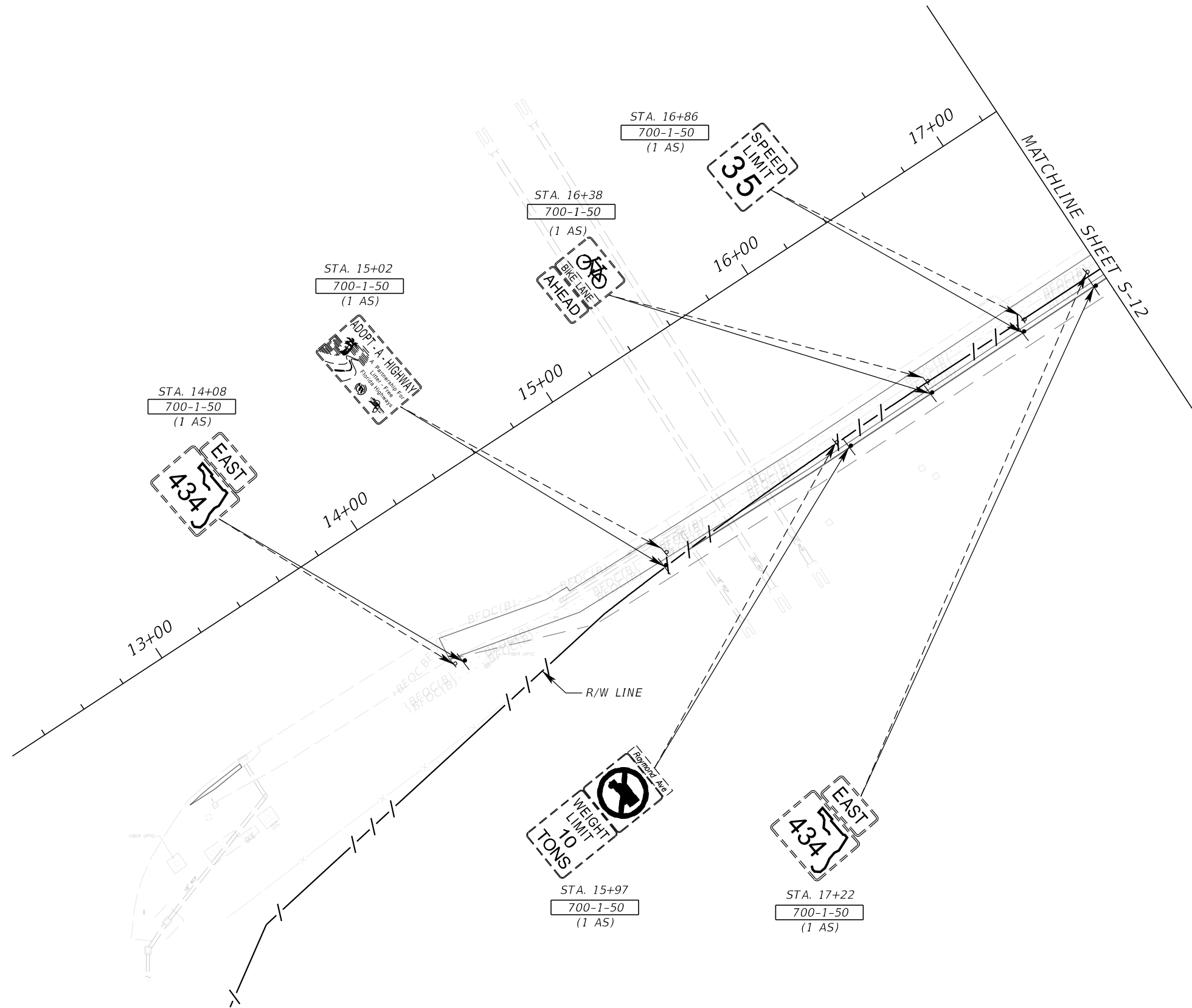
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 RAYMOND AVENUE (6)

SHEET NO.
 S-12

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

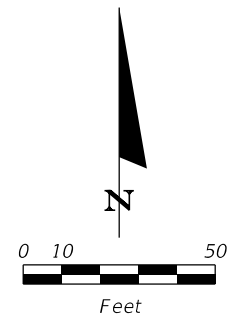
JINHAO MAI, P.E.
HR
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH 01907084
 ST., PALM SPRINGS DR.

SIGNING AND
 PAVEMENT MARKING PLANS
 SR 434 (6)

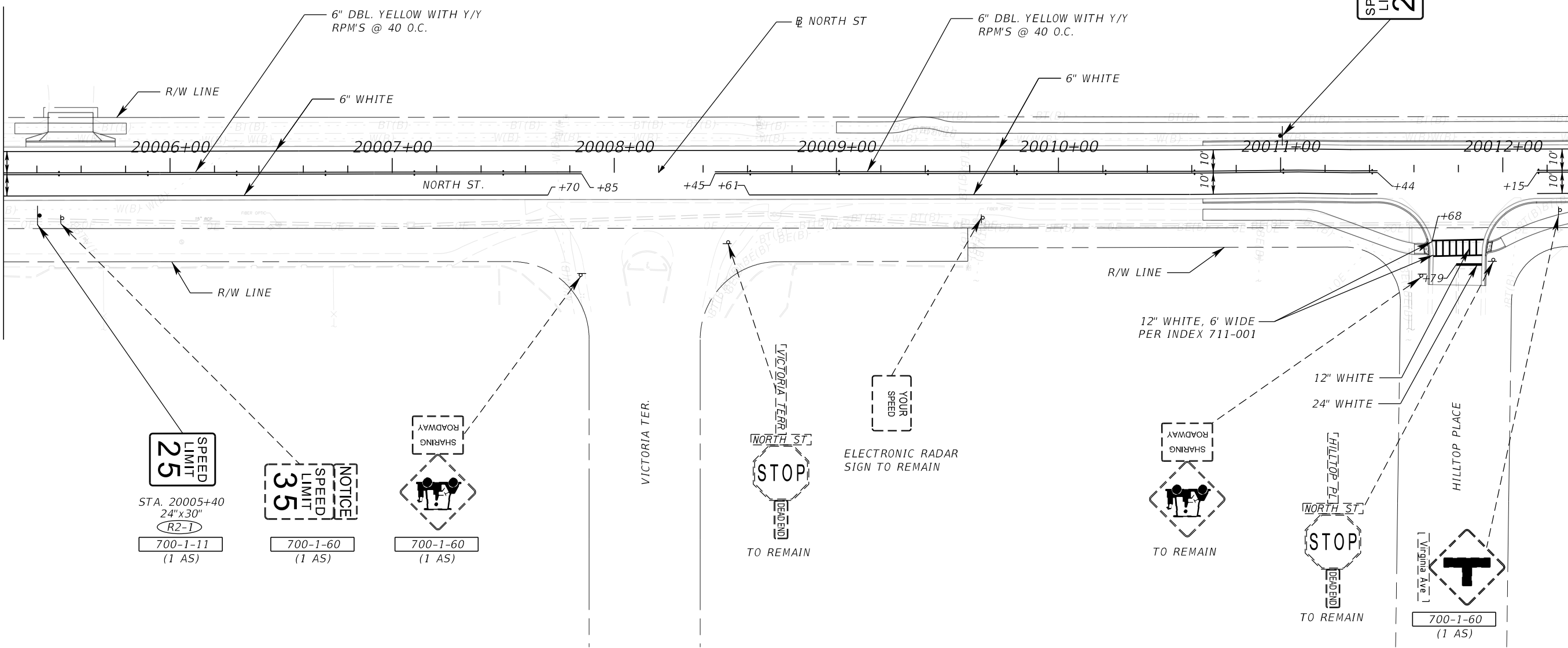
SHEET NO.
 S-13

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



MATCHLINE STA. 20005+25.00
(SEE PLAN SHEET RAYMOND AVE. 1)

MATCHLINE STA. 20012+30.00



SPEED LIMIT 25
STA. 20005+40
24"x30"
R2-1
700-1-11
(1 AS)

NOTICE OF SPEED LIMIT 35
700-1-60
(1 AS)

ROADWAY SHARING
700-1-60
(1 AS)

STOP
NORTH ST.
DEAD END
TO REMAIN

YOUR SPEED
ELECTRONIC RADAR SIGN TO REMAIN

ROADWAY SHARING
TO REMAIN

STOP
HILLTOP PL.
NORTH ST.
DEAD END
TO REMAIN

T
HILLTOP PLACE
Virginia Ave.
700-1-60
(1 AS)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
LICENSE NO. 91872
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



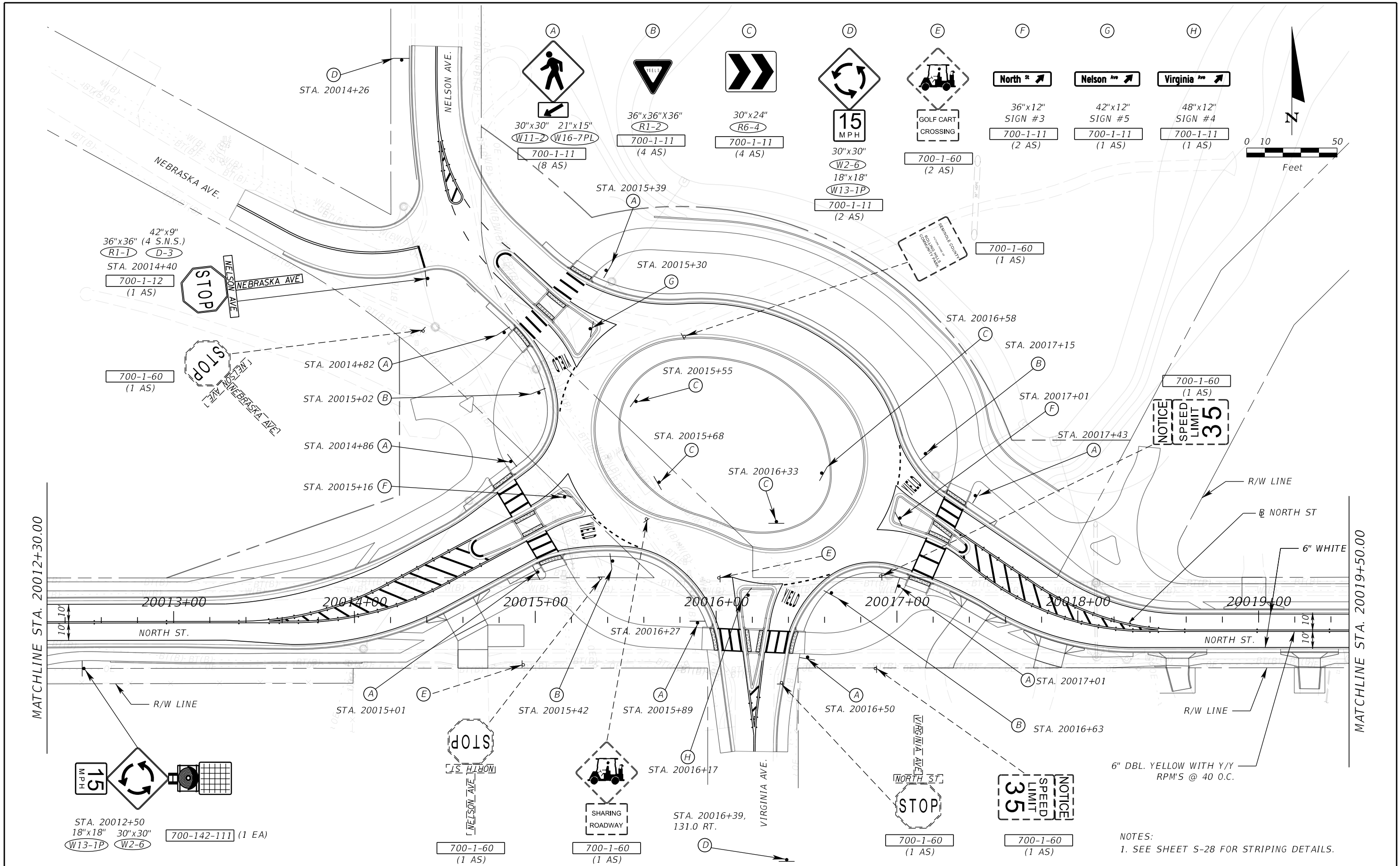
SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND PAVEMENT MARKING PLANS
NORTH STREET (8)

SHEET NO.
S-14


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



NOTES:
1. SEE SHEET S-28 FOR STRIPING DETAILS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



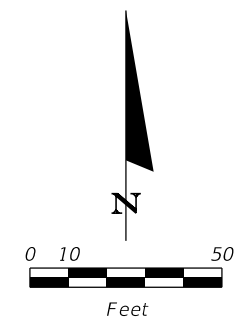
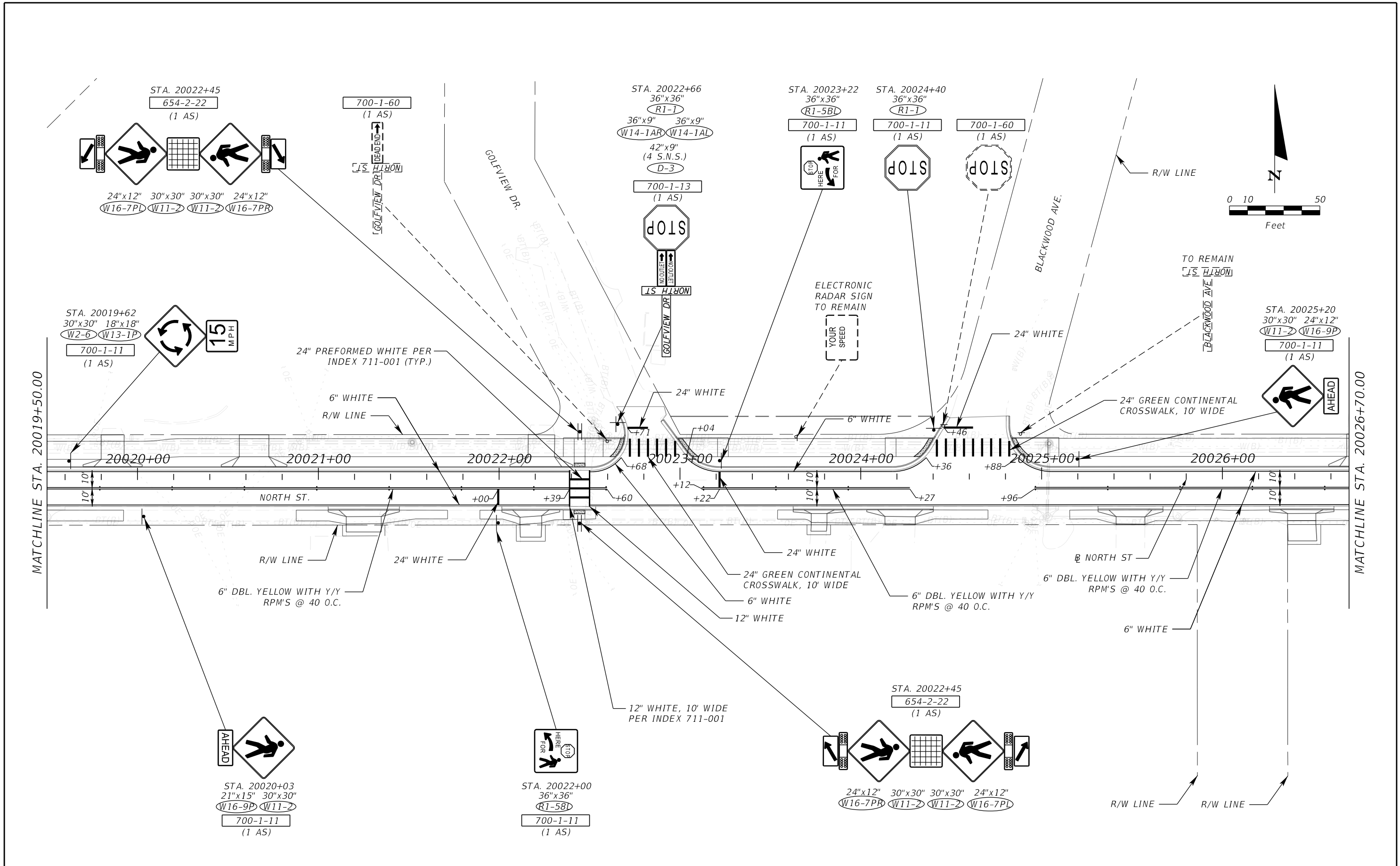
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND PAVEMENT MARKING PLANS
 NORTH STREET (9)


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.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



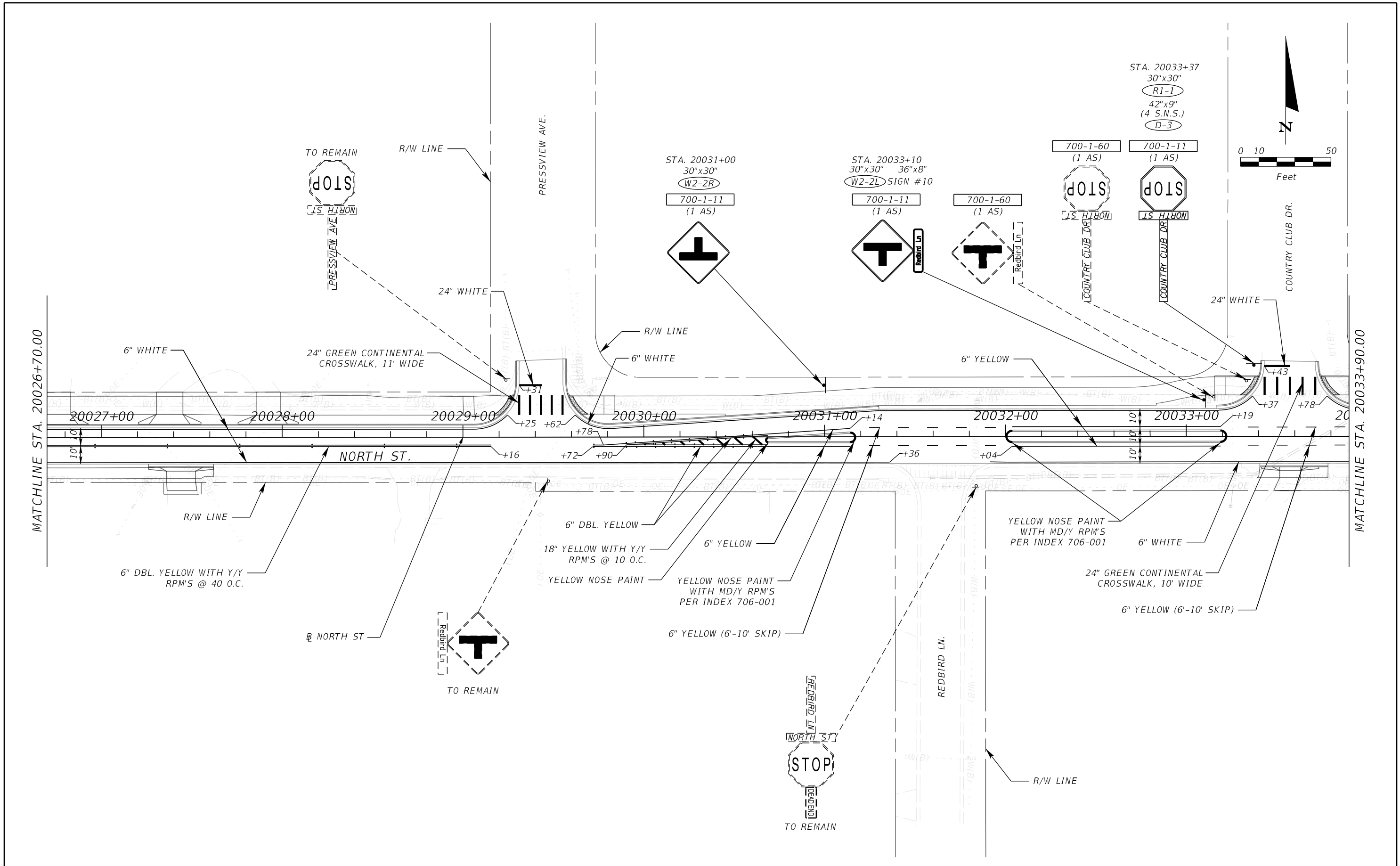
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 NORTH STREET (10)

SHEET NO.
 S-16

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



REVISIONS			
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JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



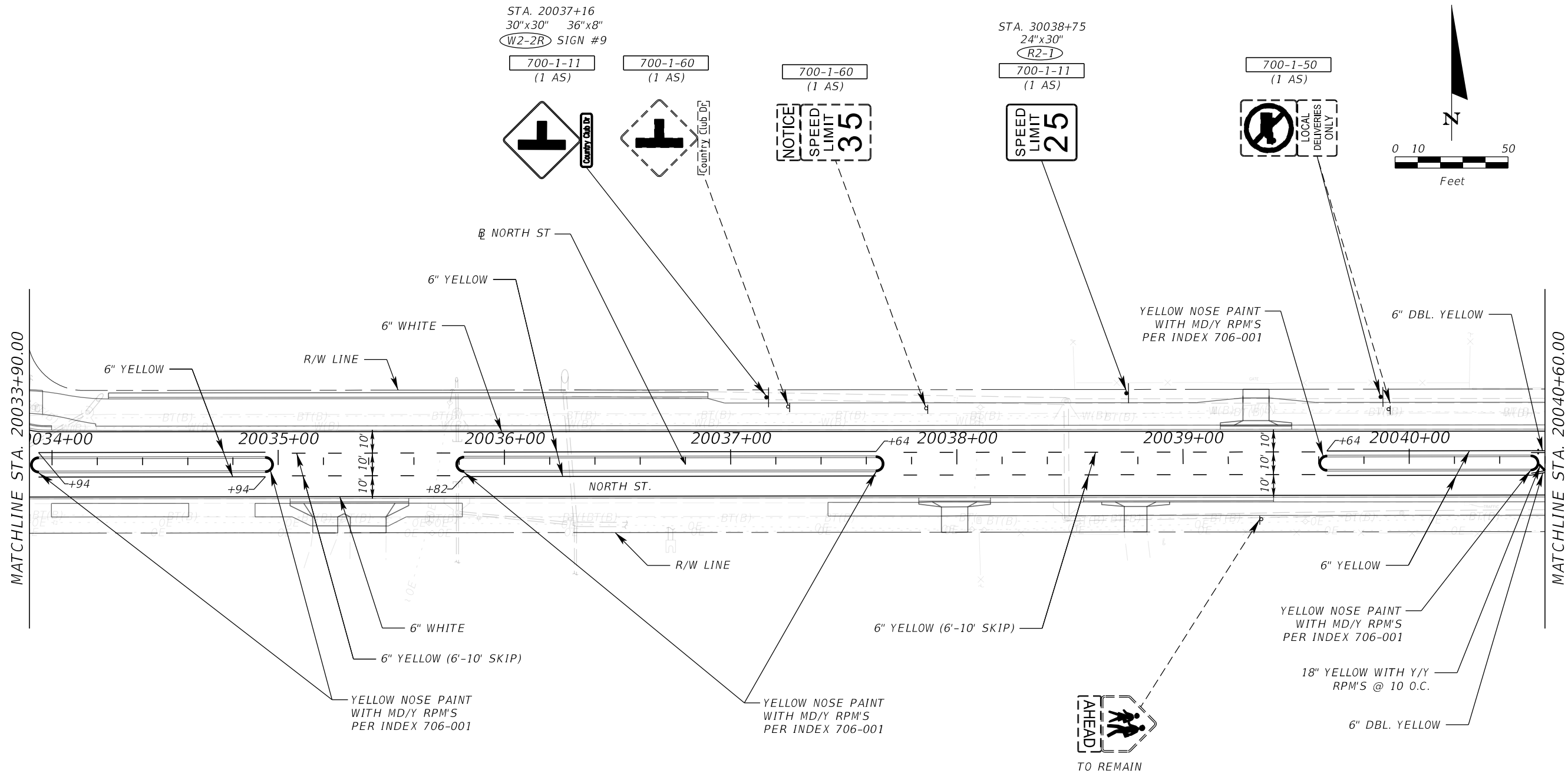
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 NORTH STREET (11)

SHEET NO.
 S-17

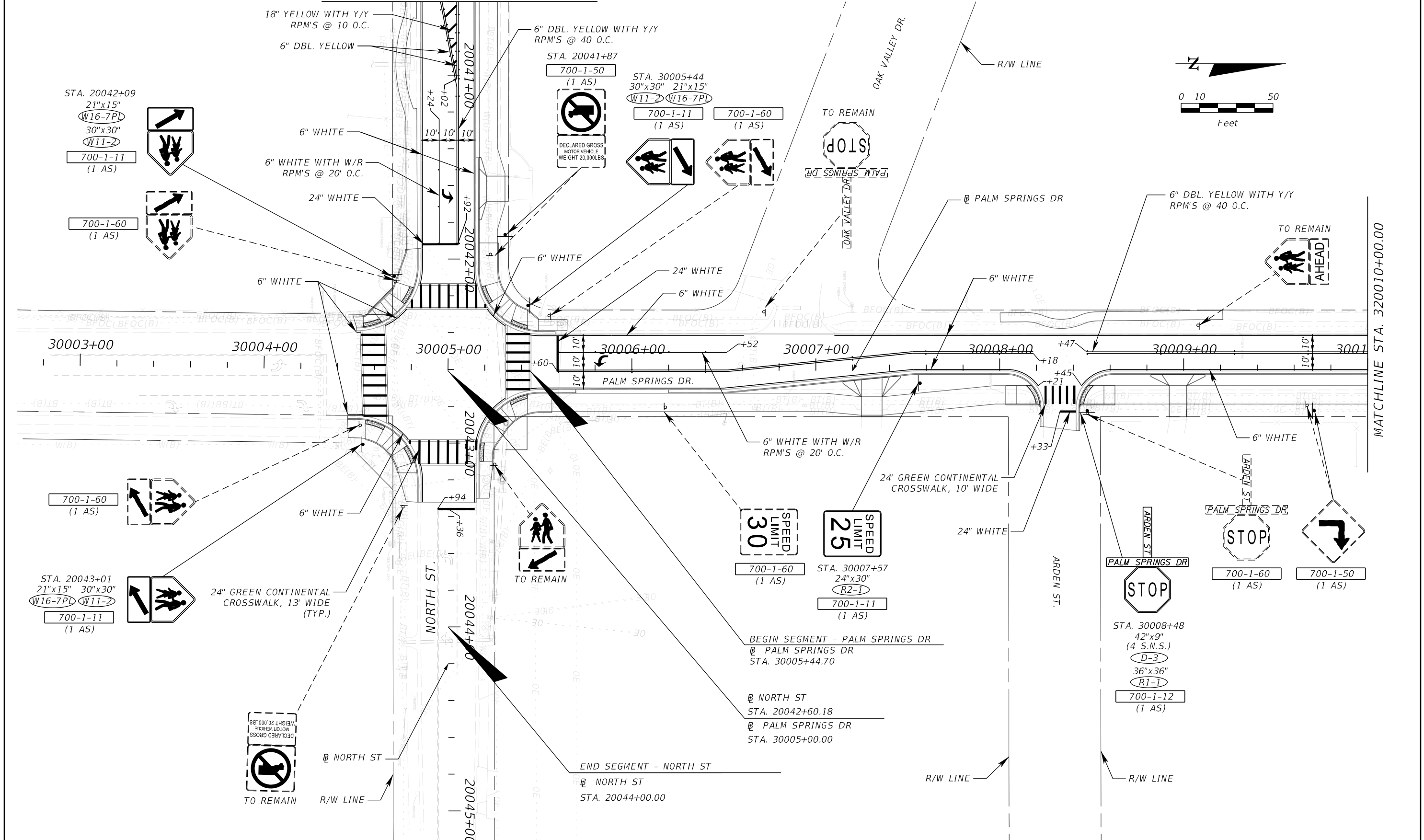
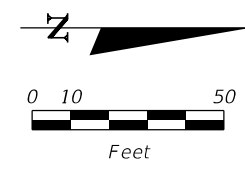
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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

REVISIONS				JINHAO MAI, P.E. <small>LICENSE NO. 91872 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242</small>	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SIGNING AND PAVEMENT MARKING PLANS NORTH STREET (12)		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	S-18		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	4/30/2024 10:33:48 AM c:\pwworking\east01\d2146731\PLAN5P18.dgn		

MATCHLINE STA. 20040+60.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



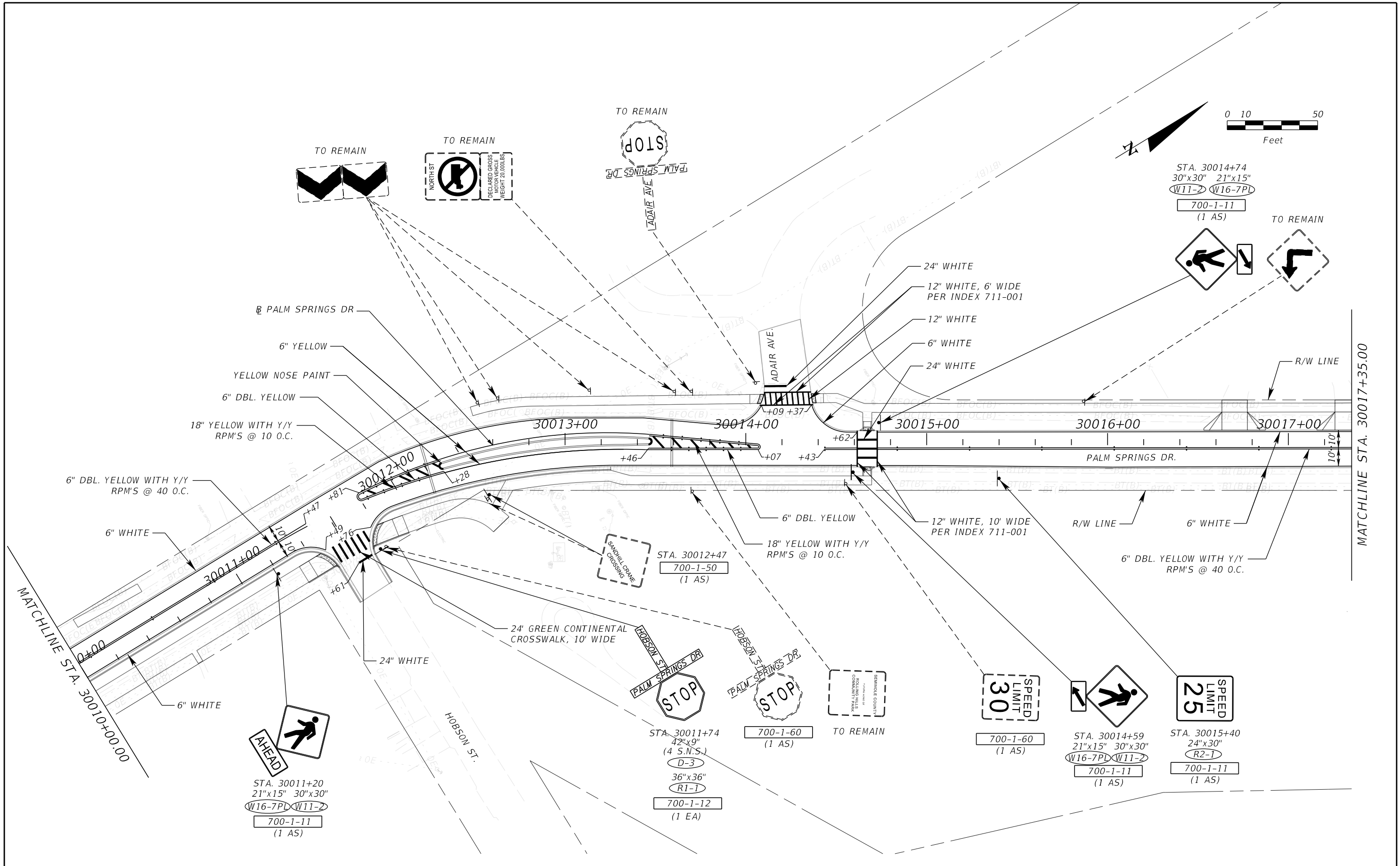
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND PAVEMENT MARKING PLANS
 PALM SPRINGS DR. (13)

SHEET NO.
 S-19

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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.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE No. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND PAVEMENT MARKING PLANS
PALM SPRINGS DR (14)

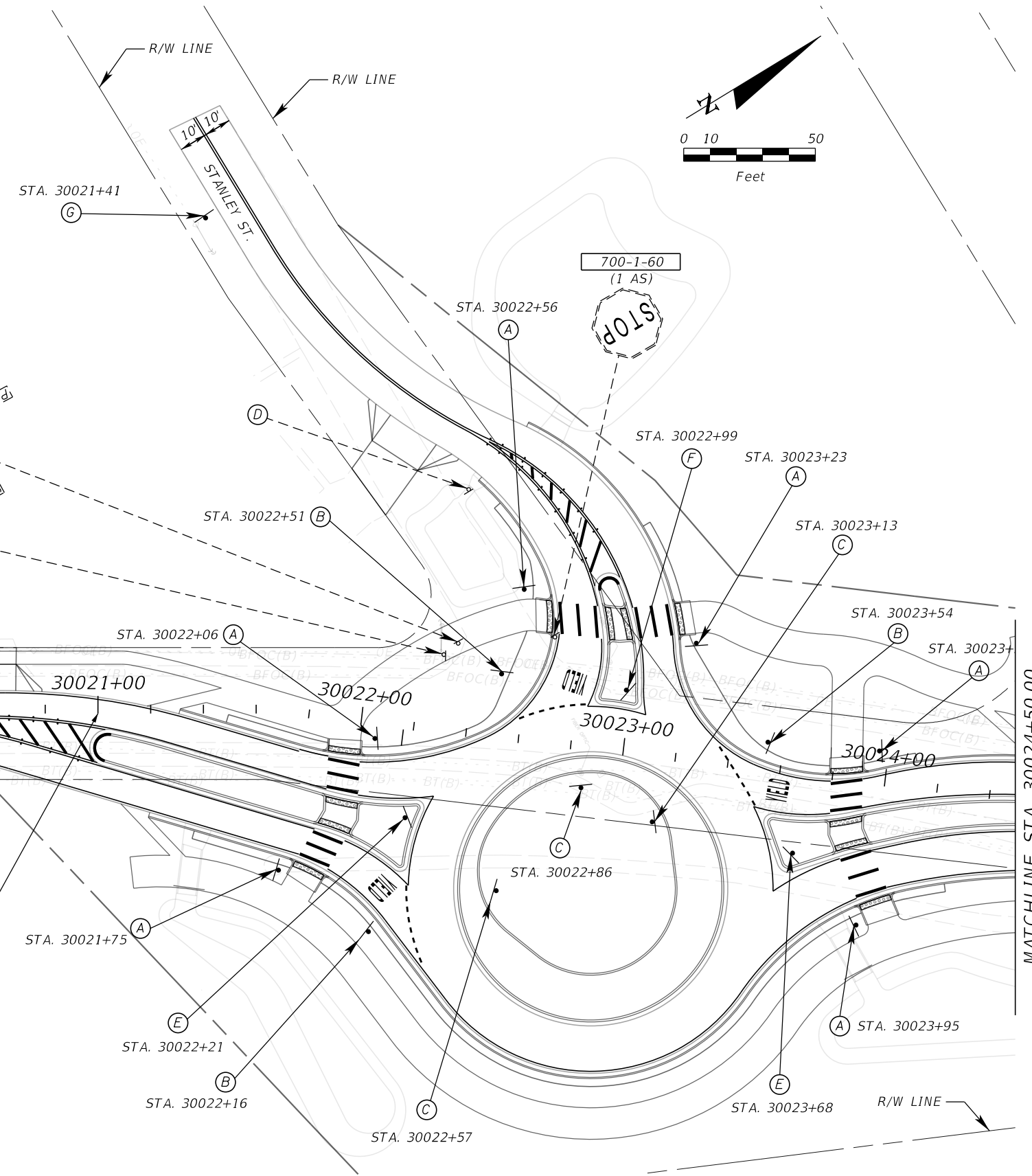
SHEET NO.
 S-20

Legend for signs and markers:

- (A)** Pedestrian crossing sign: 21"x15" 30"x30" W16-7PL W11-2, 700-1-11 (6 AS)
- (B)** Yield sign: 36"x36"x36" R1-2, 700-1-11 (3 AS)
- (C)** Right turn arrow sign: 30"x24" R6-4, 700-1-11 (3 AS)
- (D)** Golf cart crossing sign: 700-1-60 (1 AS)
- (E)** Palm Springs sign: 48"x12" SIGN #6, 700-1-11 (2 AS)
- (F)** Stanley sign: 42"x12" SIGN #2, 700-1-11 (1 AS)

Legend for speed limit and other signs:

- (G)** Roundabout sign: 30"x30" W2-6, 18"x18" W13-1P, 700-1-11 (2 AS)
- 15 MPH** speed limit sign: 30"x30" W2-6, 18"x18" W13-1P, 700-1-11 (2 AS)
- 25** speed limit sign: 24"x30" R2-1, 700-1-11 (1 AS)
- 30** speed limit sign: 700-1-60 (1 AS)



MATCHLINE STA. 30017+35.00

MATCHLINE STA. 30024+50.00

NOTES:
1. SEE SHEET S-29 FOR STRIPING DETAILS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



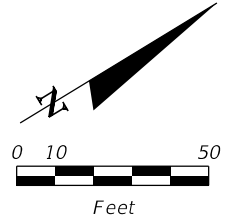
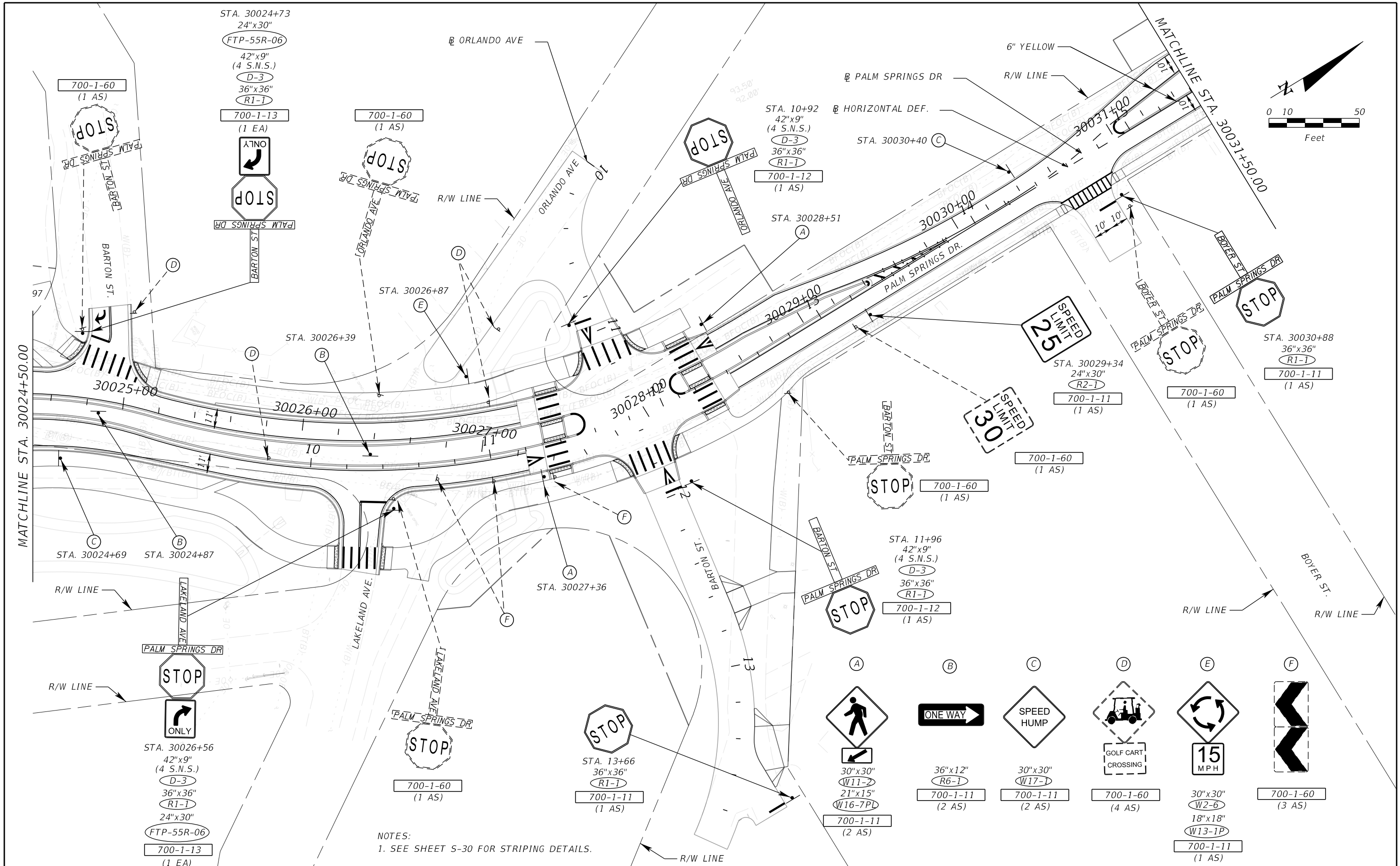
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 PALM SPRINGS DR. (15)

SHEET NO.
S-21


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



NOTES:
1. SEE SHEET S-30 FOR STRIPING DETAILS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
LICENSE NO. 91872
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



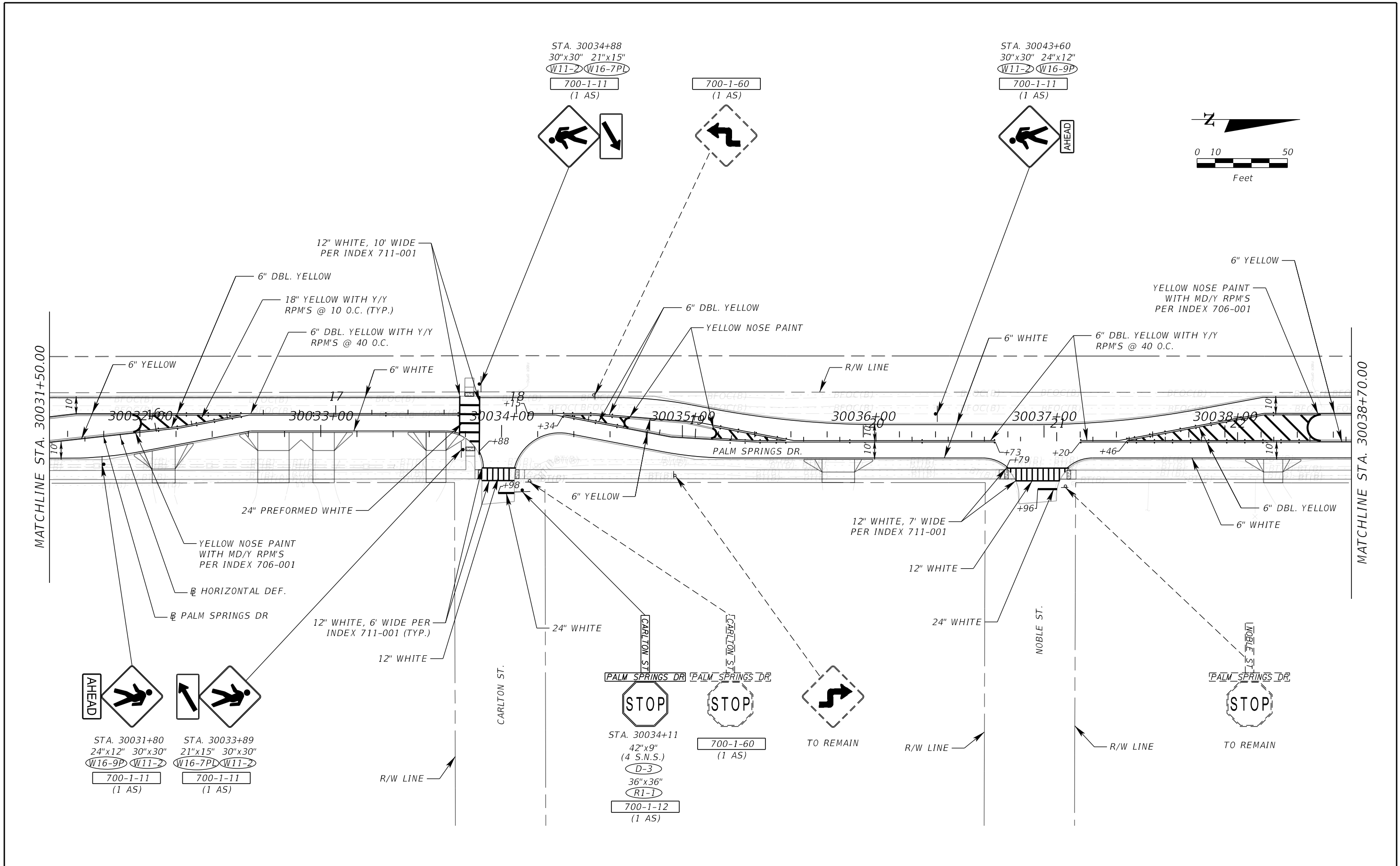
SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
PAVEMENT MARKING PLANS
PALM SPRINGS DR. (16)

SHEET
NO.
S-22

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



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.

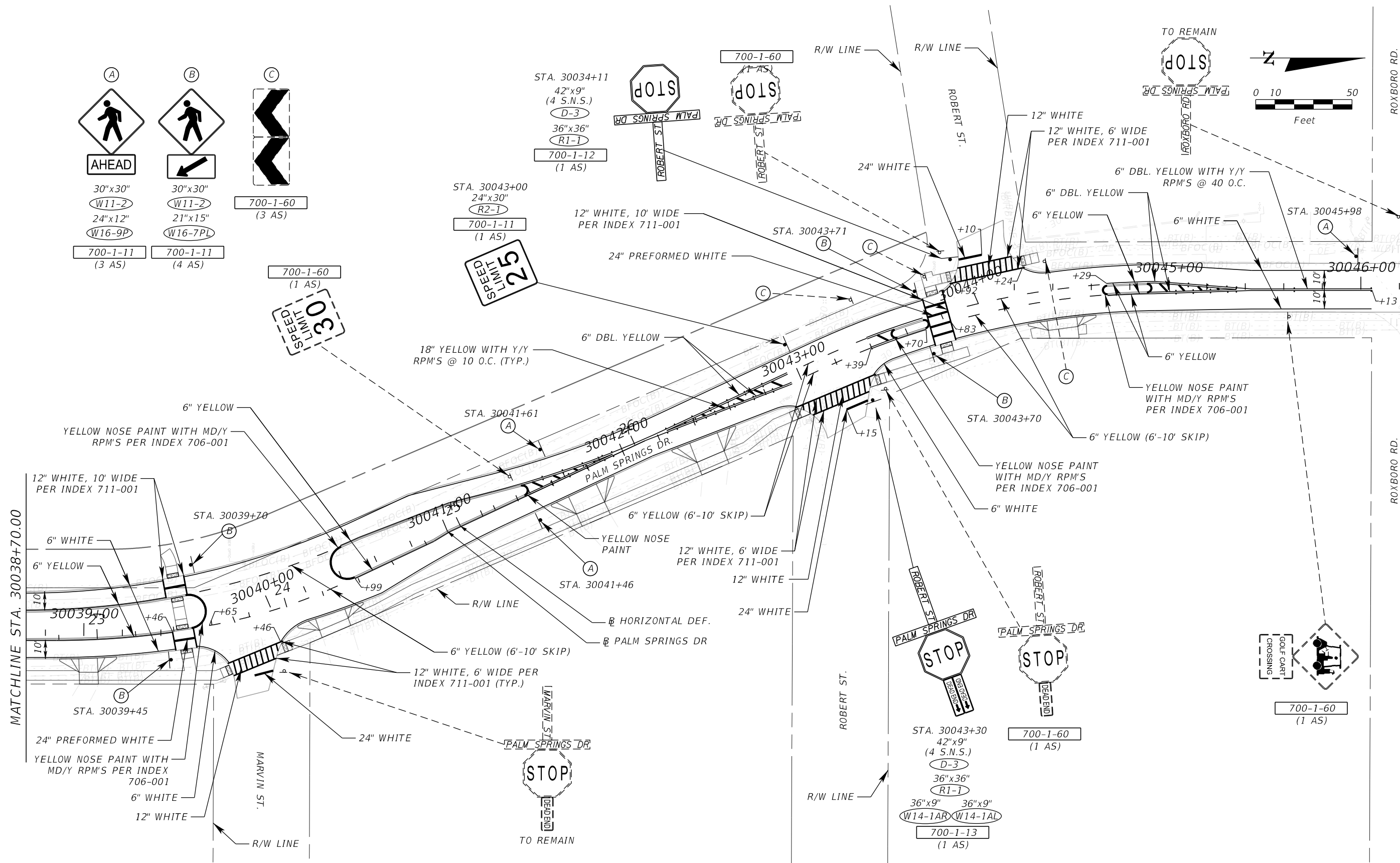
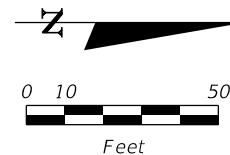
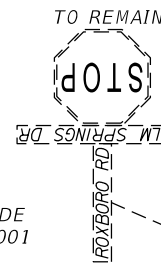
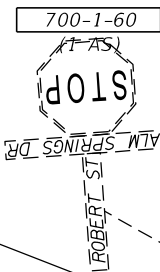
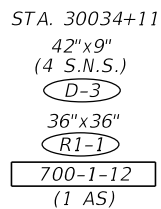
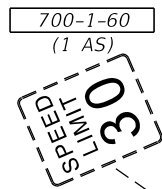
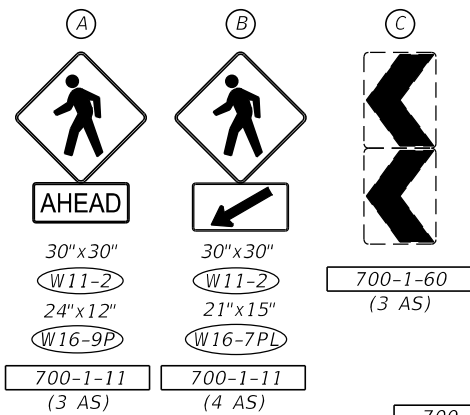
LICENSE NO. 91872
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND PAVEMENT MARKING PLANS
PALM SPRINGS DR. (17)

SHEET NO.
S-23



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

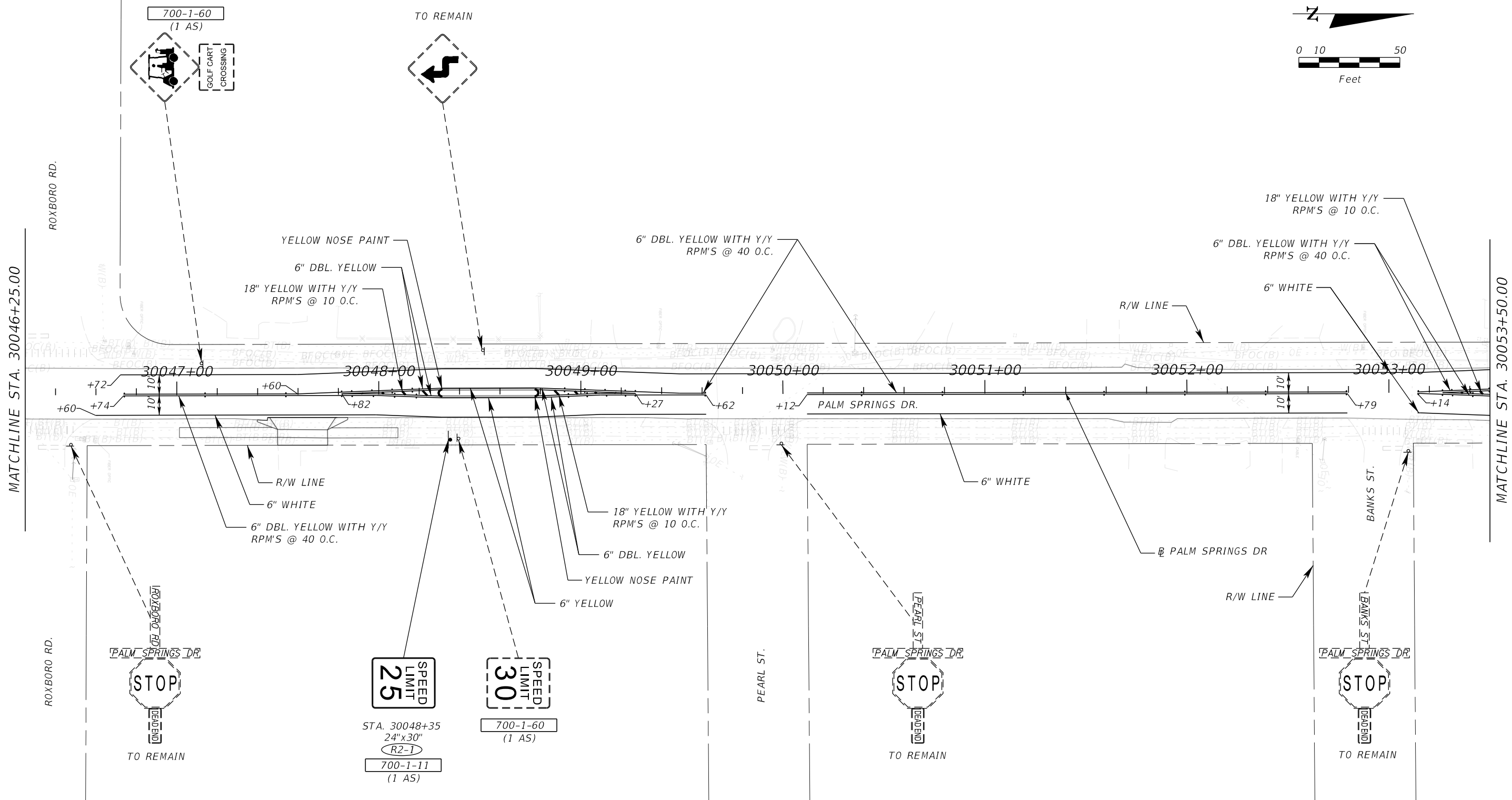
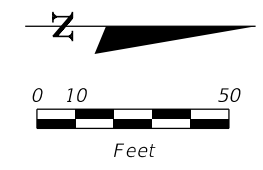
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 PALM SPRINGS DR. (18)


SHEET NO.
 S-24

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



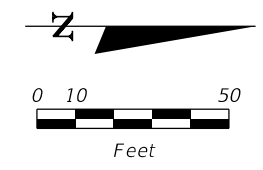
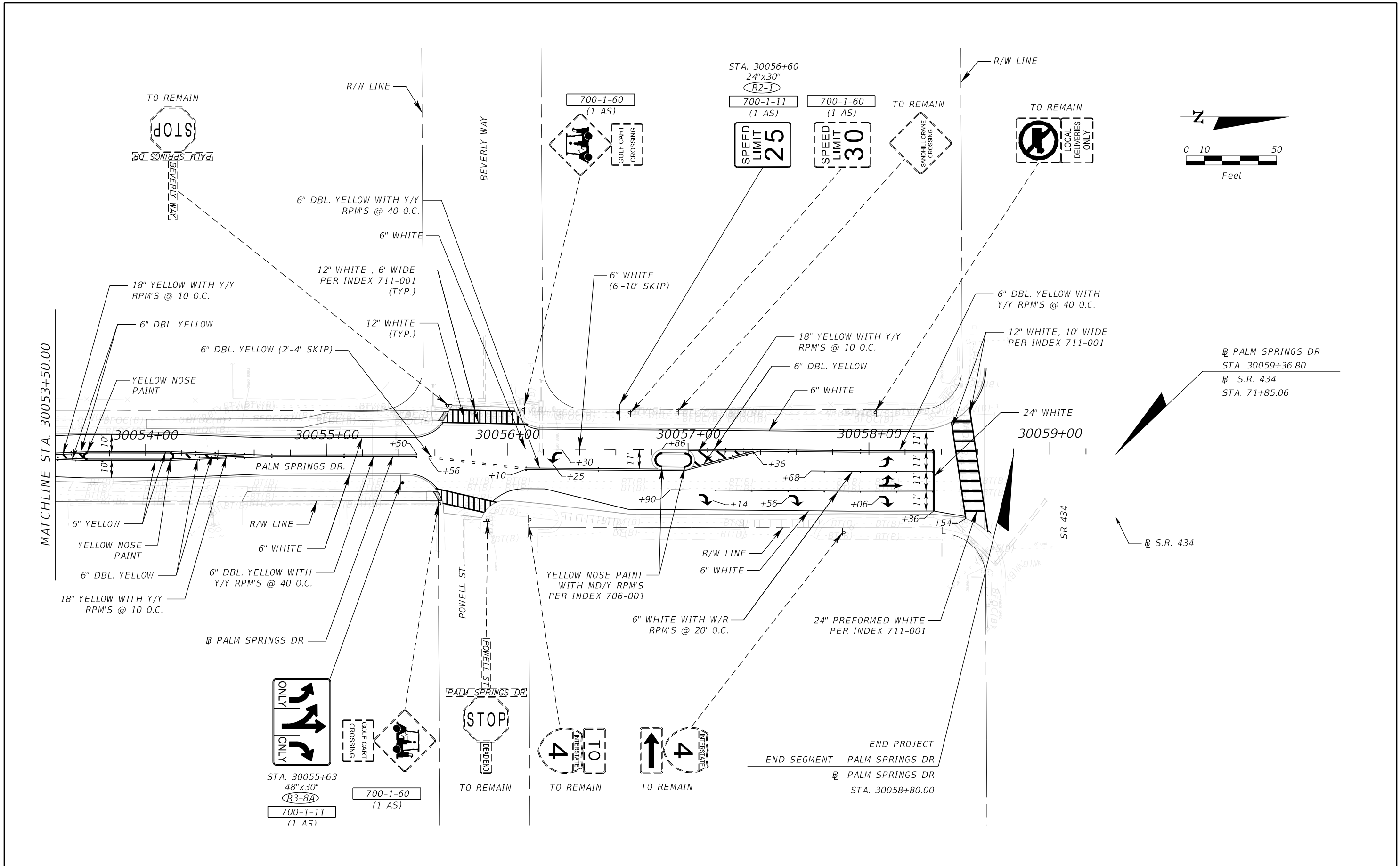
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**SIGNING AND
 PAVEMENT MARKING PLANS
 PALM SPRINGS DR. (19)**

SHEET NO.
 S-25

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



@ PALM SPRINGS DR
 STA. 30059+36.80
 @ S.R. 434
 STA. 71+85.06

STA. 30055+63
 48"x30"
 (R3-8A)
 700-1-11
 (1 AS)


700-1-60
 (1 AS)

STA. 30056+60
 24"x30"
 (R2-1)
 700-1-11
 (1 AS)

700-1-60
 (1 AS)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



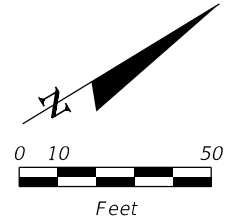
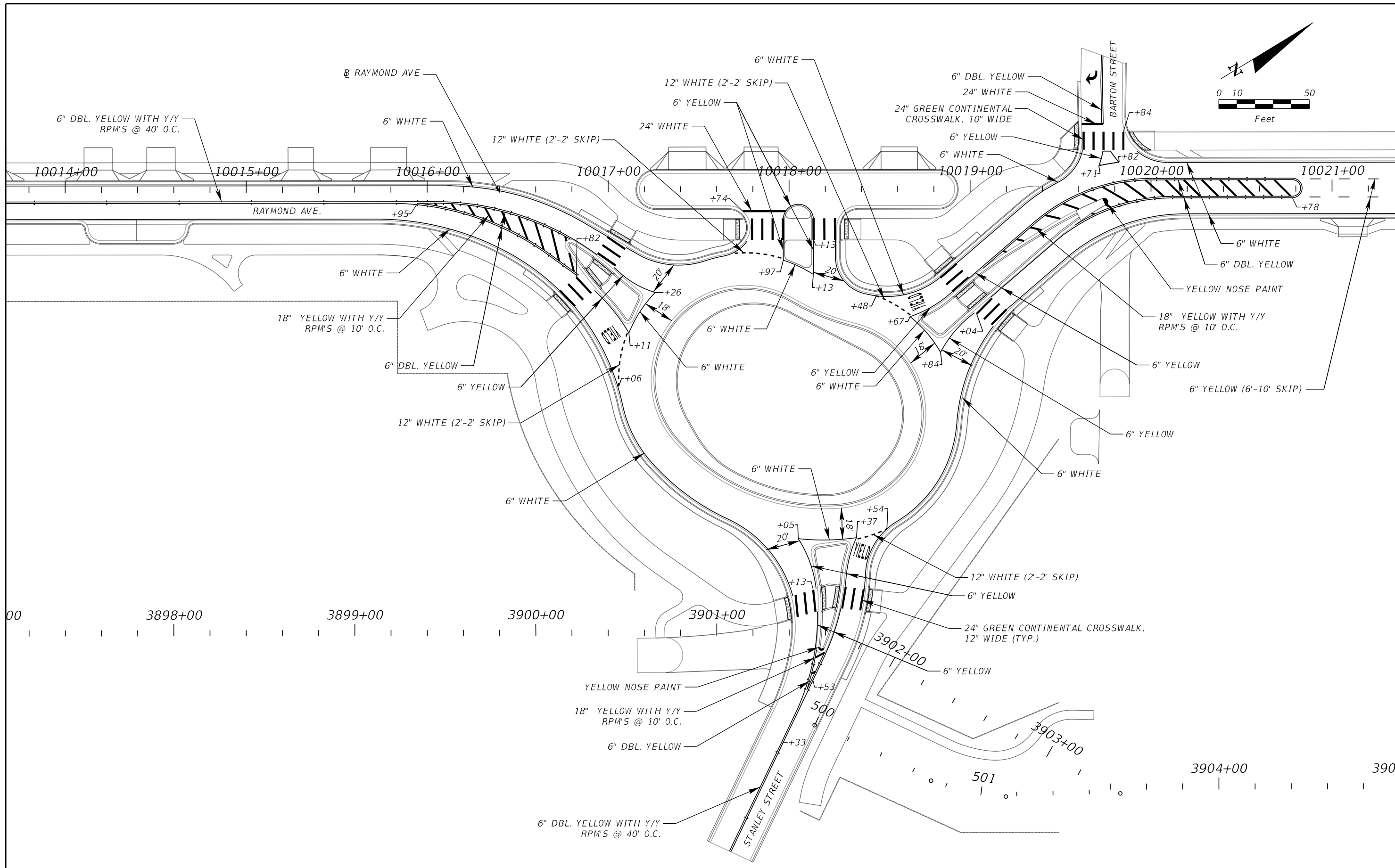
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 PALM SPRINGS DR. (20)

SHEET
 NO.
 S-26

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



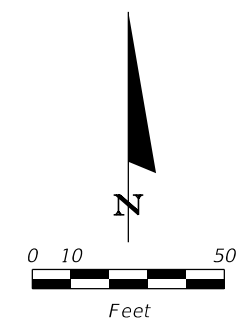
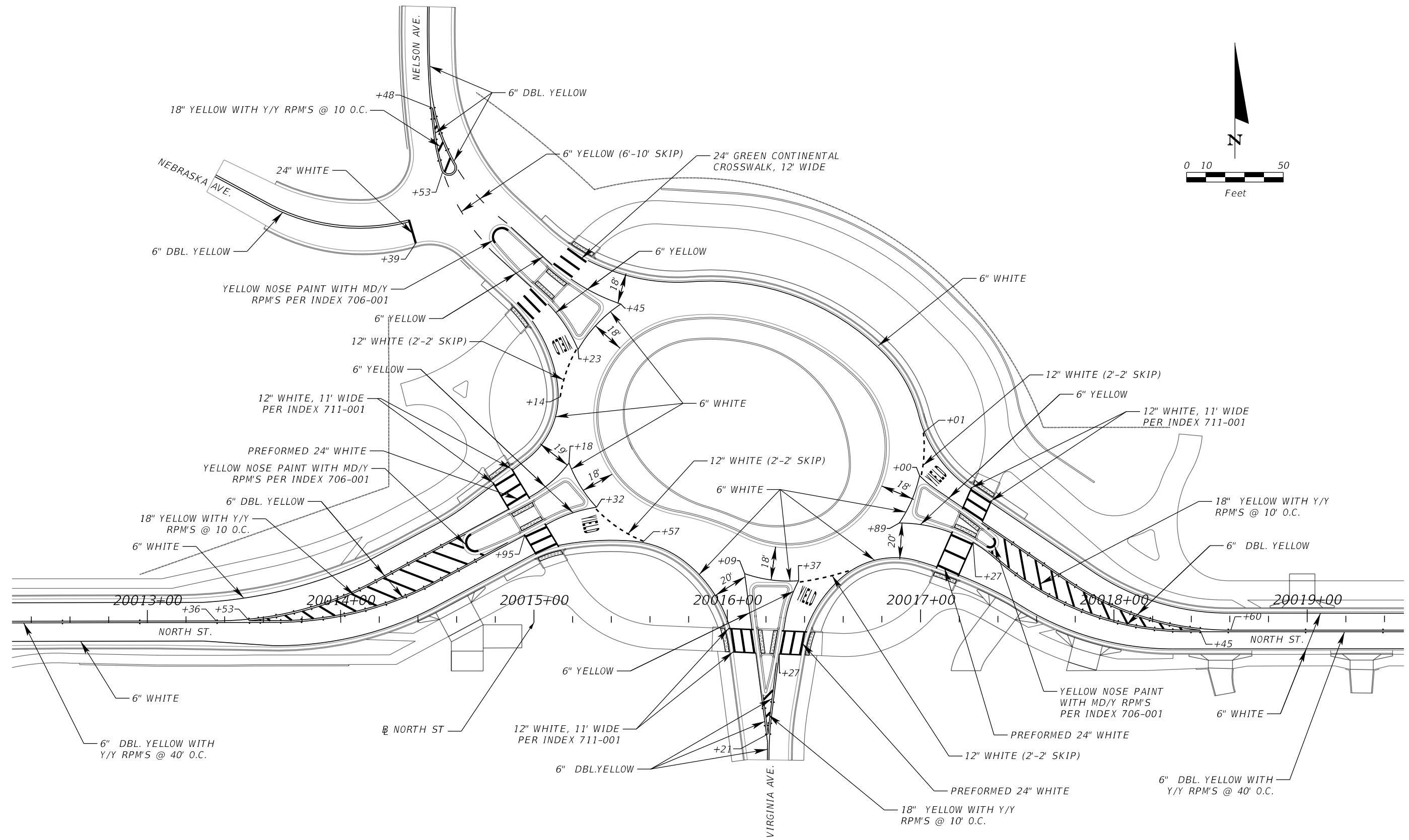
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

RAYMOND AVE.
 PAVEMENT MARKING DETAIL

SHEET NO.
 S-27

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



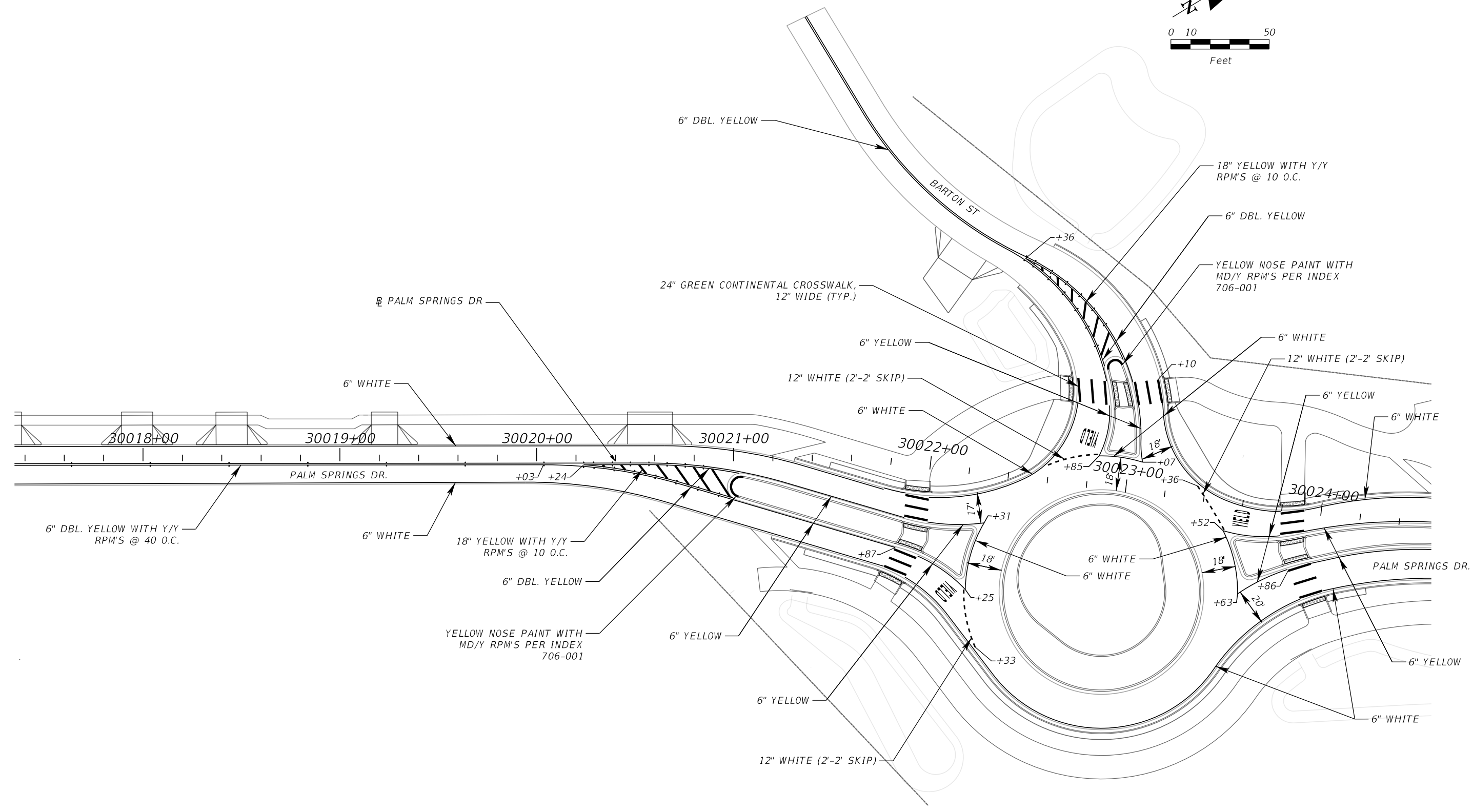
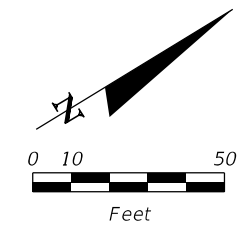
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

NORTH ST.
 PAVEMENT MARKING DETAIL

SHEET NO.
 S-28

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



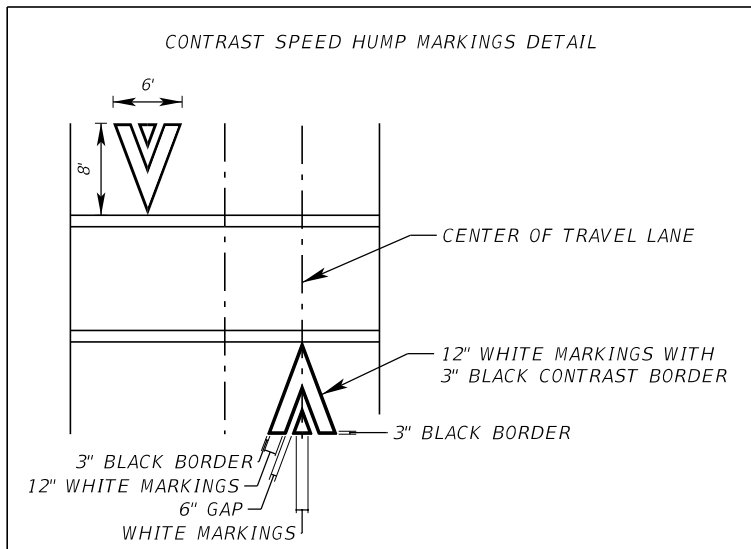
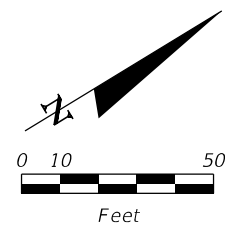
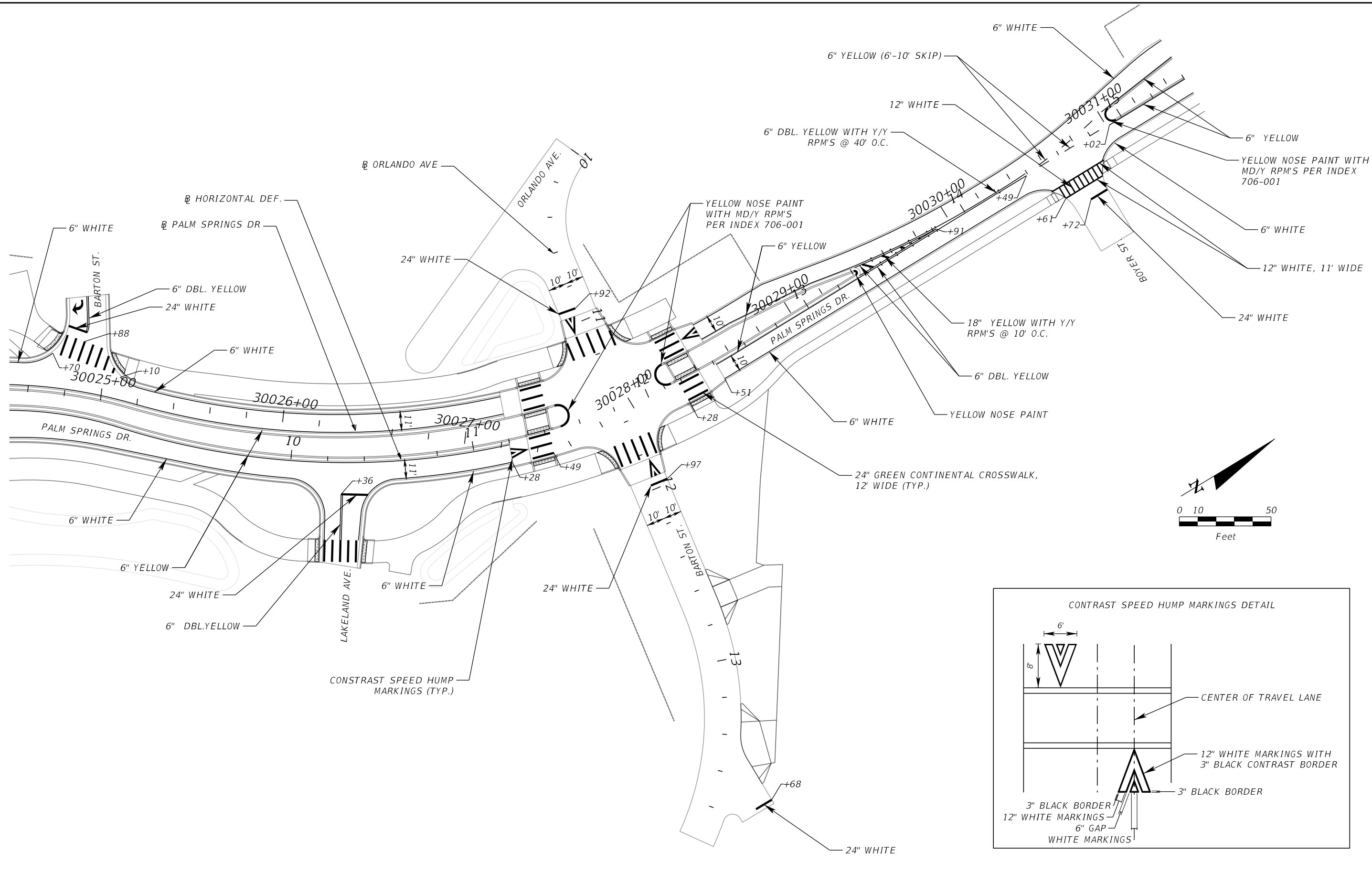
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PALM SPRINGS DR.
 PAVEMENT MARKING DETAIL


SHEET NO.
 S-29

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
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 ORLANDO, FL 32801
 PHONE 407.420.4200
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

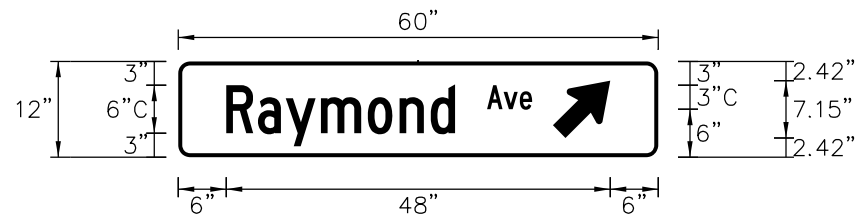
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PALM SPRINGS DR.
 PAVEMENT MARKING DETAIL

SHEET NO.
 S-30

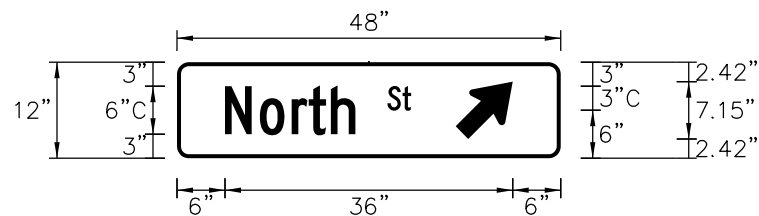
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGN NUMBER	1	QTY	2	SIGN LETTER	D	STATION(S)	10017+15
PANEL	BORDER	D	10018+84	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
AR_Type	D	315	46.8	2.1	6	6	9



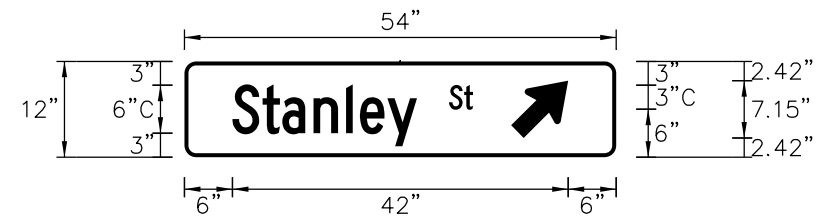
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE										
COPY	R	o	y	m	o	n	d	A	v	e	L			
SPACE	6	4	3.5	4.4	5.9	4	3.9	3.1	4	2.1	2	1.5	15.8	38.2

SIGN NUMBER	3	QTY	2	SIGN LETTER	F	STATION(S)	20015+16
PANEL	BORDER	F	20017+01	WIDTH	4'-0"	WIDTH	0.5"
HEIGHT	1'-0"	RADII	1.5"	LEGEND	White	COLOR	White
COLOR	Green	SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type	D	315	34.8	2.4	6	6	9



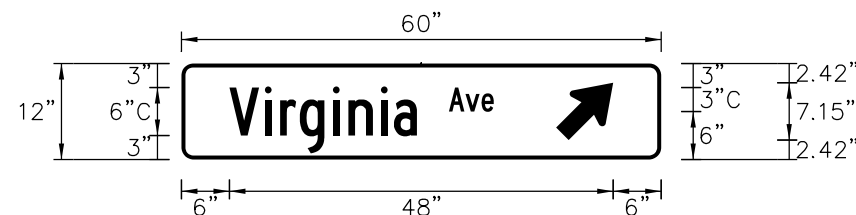
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE							
COPY	N	o	r	t	h	S	t	L			
SPACE	6	4.4	4	2.2	2.8	3.1	4	1.9	1.1	18.7	23.3

SIGN NUMBER	2	QTY	2	SIGN LETTER	G	STATION(S)	10018+18
PANEL	BORDER	G	30022+99	WIDTH	4'-6"	WIDTH	0.5"
HEIGHT	1'-0"	RADII	1.5"	LEGEND	White	COLOR	White
COLOR	Green	SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type	D	315	40.8	2.4	6	6	9



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE									
COPY	S	t	a	n	l	e	y	S	t	L			
SPACE	6	3.8	2.5	3.9	4.1	1.7	3.4	3.7	4	1.9	1.1	17.9	30.1

SIGN NUMBER	4	QTY	1	SIGN LETTER	H	STATION(S)	20016+17
PANEL	BORDER	H	20016+17	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
AR_Type	D	315	46.8	2.4	6	6	9



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE											
COPY	V	i	r	g	i	n	i	a	A	v	e	L			
SPACE	6	4.4	1.9	2.5	4.1	1.9	4.1	1.6	2.9	4	2.1	2	1.5	20.9	33.1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

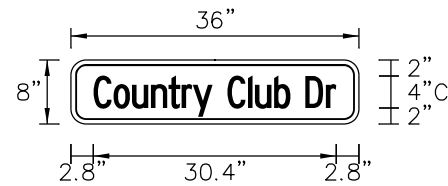


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

GUIDE SIGN WORKSHEET
 SHEET NO. S-31

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

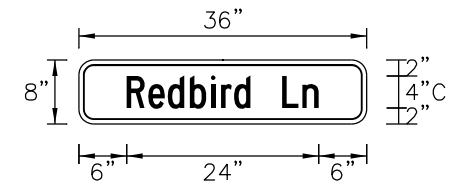
SIGN NAME	9		QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER		20037+16			
WIDTH	3'-0"	WIDTH	0.5"			
HEIGHT	0'-8"	RADII	1.5"			
LEGEND	Black	COLOR	Black			
COLOR	Yellow					
SYMBOL(S)	ANGLE	X	Y	WID	HT	
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH		



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	C	o	u	n	t	r	y	C	l	u	b	D	r	L				
SPACE	2.8	2.5	2.3	2.4	2.2	1.6	1.4	2.5	1.9	2.6	0.9	2.4	2	1.9	2.6	1.3	2.8	30.4
COPY																		
SPACE																		
COPY																		
SPACE																		
COPY																		
SPACE																		
COPY																		
SPACE																		

SIGN NAME	10		QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER		20033+10			
WIDTH	3'-0"	WIDTH	0.5"			
HEIGHT	0'-8"	RADII	1.5"			
LEGEND	Black	COLOR	Black			
COLOR	Yellow					
SYMBOL(S)	ANGLE	X	Y	WID	HT	
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH		



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	R	e	d	b	i	r	d	L	n	L			
SPACE	6	2.7	2.4	2.8	2.6	1.3	1.6	2	4	2.5	2	6	24
COPY													
SPACE													
COPY													
SPACE													
COPY													
SPACE													
COPY													
SPACE													

SIGN NAME			QTY		SIGN NUMBER	STATION(S)
PANEL	BORDER					
WIDTH	WIDTH					
HEIGHT	RADII					
LEGEND	COLOR					
COLOR						
SYMBOL(S)	ANGLE	X	Y	WID	HT	
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH		

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY																		
SPACE																		
COPY																		
SPACE																		
COPY																		
SPACE																		
COPY																		
SPACE																		
COPY																		
SPACE																		

SIGN NAME			QTY		SIGN NUMBER	STATION(S)
PANEL	BORDER					
WIDTH	WIDTH					
HEIGHT	RADII					
LEGEND	COLOR					
COLOR						
SYMBOL(S)	ANGLE	X	Y	WID	HT	
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH		

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY																		
SPACE																		
COPY																		
SPACE																		
COPY																		
SPACE																		
COPY																		
SPACE																		
COPY																		
SPACE																		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E. LICENSE NO. 91872
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

GUIDE SIGN WORKSHEET

SHEET NO. S-33

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

*SEMINOLE COUNTY
ENGINEERING DIVISION*

CONTRACT PLANS

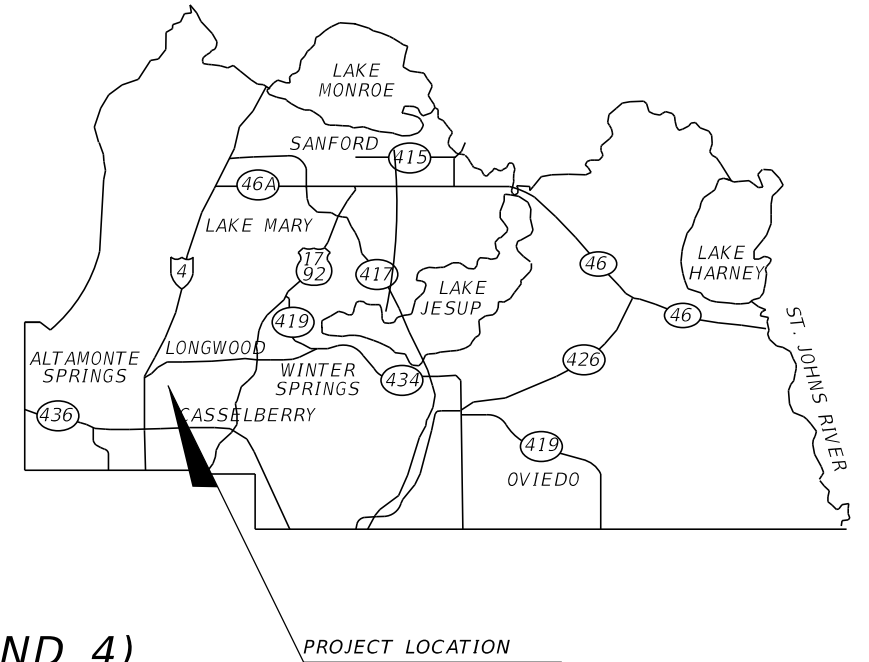


*ROLLING HILLS AREA ROADWAYS PHASE 1
SEMINOLE COUNTY CIP No. 01907084 (DISTRICT 3 AND 4)*

SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4	DUKE ENERGY NOTES
T-5 - T-9	SIGNALIZATION PLAN
T-10 - T-13	INTERCONNECT PLAN
T-14	MAST ARM TABULATION
T-15	POLE SCHEDULE DATA SHEET
T-16	MAST ARM DETAIL
T-17	MOUNTING DETAILS
T-18	MAST ARM DRILLED SHAFT FOUNDATION TABLE
T-19 - T-20	FIBER SPLICING DIAGRAM
T-21	GUIDE SIGN WORK SHEET
T-22	SOIL BORINGS




*SIGNALIZATION PLANS
ENGINEER OF RECORD:
JINHAO MAI, PE
PE LICENSE NO. 91872
HDR ENGINEERING, INC.
315 E. ROBINSON STREET, SUITE 400
ORLANDO, FL 32801*

*COUNTY PROJECT MANAGERS:
SAM MOUSSA, PE
ENGINEERING DIVISION
100 EAST 1st STREET
SANFORD, FL 32771*

<i>FISCAL YEAR</i>	<i>SHEET NO.</i>
23-24	T-1

SIGNALIZATION NOTES

1. THE CONTRACTOR SHALL CONTACT SEMINOLE COUNTY TRAFFIC ENGINEERING AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK IN ANY INTERSECTIONS MAINTAINED BY SEMINOLE COUNTY.
2. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO SEMINOLE COUNTY EXCEPT CONCRETE POLES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL NOTIFY SEMINOLE COUNTY TRAFFIC ENGINEERING 24 HOURS PRIOR TO DESTROYING EXISTING ROADWAY SENSORS. AT NO TIME IS THE CONTRACTOR TO CHANGE ANY SIGNAL TIMINGS WITHOUT COMMUNICATING WITH SEMINOLE COUNTY TRAFFIC ENGINEERING. IF LOOPS (NOT TEMPORARY DETECTION) ARE FUNCTIONING, RECALLS MAY BE REMOVED BY THE CONTRACTOR WITH APPROVAL FROM SEMINOLE COUNTY TRAFFIC ENGINEERING.
4. THE MAINTENANCE RESPONSIBILITY FOR ALL SIGNALS WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN THE FULL RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL HAVE A I.M.S.A. LEVEL 2 SIGNAL TECHNICIAN ON SITE THROUGH ALL PHASES OF CONSTRUCTION AND ON CALL WITH A 2 HOUR MAXIMUM RESPONSE TIME.
5. A TERMINAL BLOCK WITH A MINIMUM OF A 6 MM WIRE INSERTION ORIFICE SHALL BE USED TO CONNECT CABLES AT THE SIGNAL POLE HAND HOLE WITH A MAXIMUM OF THREE 14 GAUGE CONDUCTORS PER LUG. AT LEAST 6' OF SLACK CABLE SHALL BE AVAILABLE FOR TROUBLESHOOTING.
6. INDIVIDUAL PEDESTRIAN POLES SHALL BE THE ALUMINUM BREAK-AWAY TYPE.
7. ALL VEHICLE AND PEDESTRIAN DISPLAYS, STREET ID'S, LUMINAIRES AND BLANK OUT SIGNS SHALL BE L.E.D. ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE.
8. THE LUMINARIES/ILLUMINATED STREET ID'S SHALL BE POWERED FROM A SEPARATE BREAKER LOCATED IN THE BREAKER BOX, NOT THE SIGNAL CABINET. ALL PHOTOCELLS SHALL BE MOUNTED ON THE BREAKER BOX AND BE 15 AMPERE CAPACITY MINIMUM. ALL ILLUMINATED STREET ID'S SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY.
9. ALL CABLES WILL HAVE THREE SPARE CONDUCTORS.
10. CONDUIT SHALL BE INSTALLED ON ALL 4 SIDES OF THE INTERSECTION, CONDUIT THAT STARTS ON THE CABINET CORNER SHALL HAVE FOUR EACH, 2" INCH CONDUIT FOR EACH CROSSING OR BORE.
11. THE LOAD CENTER SHALL BE 125AMP, 8 SPACE, NEMA 3R RAINPROOF ENCLOSURE.
12. TYPE "F" LOOPS SHALL BE 6' X 40' AND SHALL EXTEND 5' PAST THE STOP BAR. WHEN "F" LOOPS ARE 6' X 20' AS SHOWN ON PLAN SET THE LOOP SHOULD BE 1' BEHIND STOP BAR.
13. EXISTING CONTROLLER CABINET SHALL BE RETURNED TO SEMINOLE COUNTY TRAFFIC ENGINEERING. THE CONTROLLER ASSEMBLY SHALL CONSIST OF A NEMA TS2 TYPE 6 CABINET (70006-TS2/FLPP64-E2-WCD9110600) AND A TS2-1 ATC CONTROLLER THAT IS COMPATIBLE WITH SEMINOLE COUNTY'S ADVANCED TRAFFIC MANAGEMENT SYSTEM. THE CONTROLLER ASSEMBLY SHALL HAVE ALL THE NECESSARY HARDWARE TO COMMUNICATE WITH THE SIGNAL SYSTEM.
14. THE CONTROLLER ASSEMBLY UPS SHALL BE LINE-INTERACTIVE AND COMPATIBLE WITH SEMINOLE COUNTY'S ADVANCE TRAFFIC MANAGEMENT SYSTEM.
15. FIBER OPTIC CABLE/INTERCONNECT: EACH SIGNAL CABINET SHALL HAVE A 24" X 36" PULL BOX IN FRONT OF THE CABINET WITH 100FT OF SLACK. CONNECTION TO THE SIGNAL CABINET SHALL BE A 12 FIBER SINGLE-MODE DROP WITH T CONNECTORS AND A MID-ENTRY SPLICE INTO THE BACKBONE CABLE. NO FIBER STRAND SHALL BE LEFT UNTERMINATED OR UN-SPLICED UNLESS OTHERWISE SPECIFIED. FIBER OPTIC CABLE IS CONSIDERED "CRITICAL COMMUNICATIONS" AND SHALL BE IN SERVICE AT ALL TIMES, CUT OVER TO NEW FIBER SHALL BE DONE DURING OFF PEAK HOURS AND COORDINATED WITH SEMINOLE COUNTY TRAFFIC ENGINEERING (407-665-5677).
16. EXISTING DETECTION SHALL BE MAINTAINED FOR ALL ACTUATED MOVEMENTS. IF TEMPORARY OVERHEAD DETECTION IS USED, THE CONTRACTOR SHALL WIRE ISOLATION PANELS BETWEEN THE CONTROLLER ASSEMBLY AND OVERHEAD DETECTION WITHIN 24 HRS OF COMPROMISING EXISTING DETECTION.
17. EXISTING OPTICOM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. ALL OPTICOM DETECTORS ON MAST ARMS SHALL BE MOUNTED IN AN UPRIGHT POSITION. THE OPTICOM MULTIMODE PHASE SELECTOR SHALL BE A PLUG-IN FOUR CHANNEL, DUAL PRIORITY, MULTIMODE ENCODED SIGNAL DEVICE DESIGNED FOR USE WITH BOTH OPTICOM INFRARED EMITTERS AND DETECTORS AND OPTICOM GPS RADIO/GPS INTERSECTION UNITS AND VEHICLE EQUIPMENT. SYSTEM SHALL INCLUDE AUXILIARY INTERFACE PANEL (AIP) AND GPS RADIO UNIT MOUNTED TO THE NEAREST MAST ARM OR STRAIN POLE. THE ASSEMBLY AND INCLUDED EQUIPMENT SHALL BE COMPATIBLE WITH THE SEMINOLE COUNTY'S FIRE DEPARTMENT STANDARDS.
18. CONTACT SEMINOLE COUNTY TRAFFIC ENGINEERING (TONY MOZICK 407-665-5588) TO OBTAIN CABINET BASE TEMPLATE PRIOR TO CONSTRUCTING CABINET BASE.

REVISIONS					SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		T-3
				JINHAO MAI, P.E. LICENSE NO. 91872 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

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DUKE ENERGY POWER SERVICE NOTES:

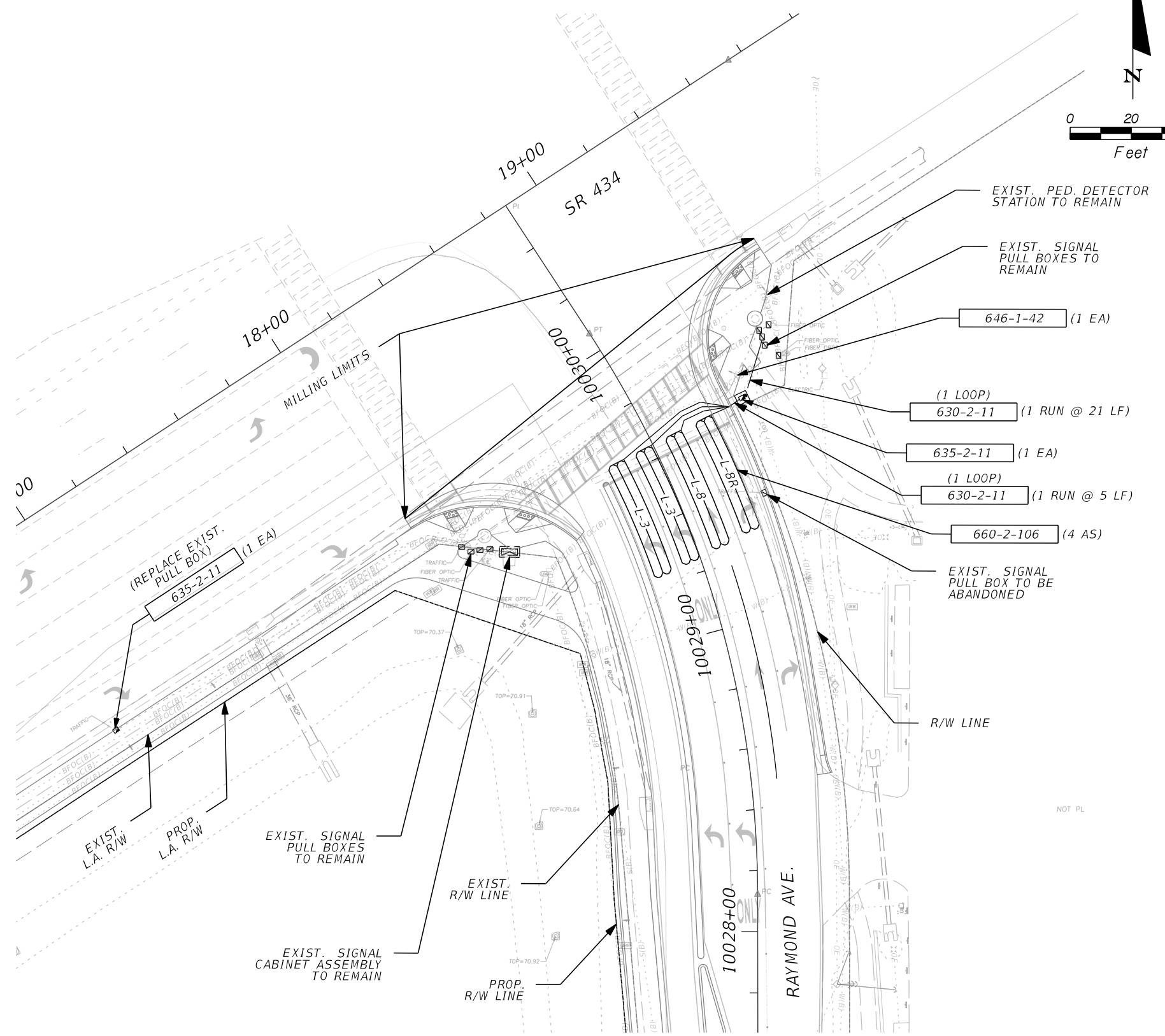
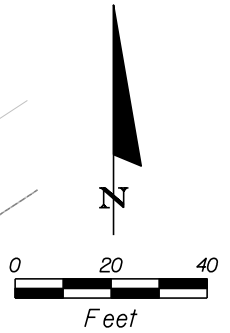
DUKE ENERGY TRANSMISSION RGB NOTES:

1. WHEN THE ORIGINAL METER IS REMOVED, IT WILL DISCONNECT THE ACCOUNT ASSOCIATED WITH IT.
2. SEMINOLE COUNTY OR THE NEW ACCOUNT OWNER WILL NEED TO SET UP A NEW ACCOUNT AT THE NEW LOCATION. THEY WILL NEED TO CONTACT DUKE ENERGY SI (SERVICE INSTALLATION) / CONSTRUCTION CALL CENTER GROUP DIRECTLY AT: 866-372-4663.
3. THEY WILL NEED TO PROVIDE THE NEW PERMITTING ADDRESS WHERE THE SERVICE WILL BE LOCATED AND ADVISE THE CALL CENTER REPRESENTATIVE THAT A NEW METERED SERVICE IS BEING REQUESTED.
4. A NEW WORK ORDER WILL BE RECEIVED FOR THE REQUEST FOR THE NEW METERED SERVICE.
5. THE ADDRESS FOR THE NEW METERED SERVICE WILL NEED TO BE THE SAME THAT IS LISTED ON THE SELF-INSPECTION FORM DUKE ENERGY REQUIRES.
6. WE WILL NEED TO RECEIVE A COMPLETED SELF-INSPECTION FORM BEFORE THE METER CAN BE INSTALLED.
7. THE POP-RIVETED LABEL ON THE NEW METER CAN WILL NEED TO MATCH THE ADDRESS OF THE NEW ACCOUNT.
8. ALSO THE NEW SERVICE WILL NEED TO BE BROUGHT TO THE DESIGNATED PEDESTAL AND LEAVE 6' TAIL SO THAT OUR LINEMAN WILL HAVE ENOUGH WIRING TO WORK WITH WHEN IT IS TAPPED UP INTO THE PEDESTAL.

1. CONTACT: GEORGE BAXTER @ (727) 483-3242.
2. NOTIFICATIONS TO DET:
 - a. WHEN REQUESTING OUTAGES, THE CONTRACTOR MUST FOLLOW THE FOLLOWING GUIDELINES:
 - i. THE ROADWAY CONTRACTOR MUST PROVIDE AN OUTAGE PACKAGE INDICATING: THE SCOPE OF WORK, START TO FINISH SCHEDULE, TYPE OF EQUIPMENT UTILIZED, CONTRACTOR TEAM CONTACT INFORMATION, DESIGN DRAWINGS AND OTHER INFORMATION AS IDENTIFIED BY DET AS NECESSARY. OUTAGE INITIATION REQUIRES A MINIMUM OF 28-DAYS FROM THE APPROVAL OF THE OUTAGE PACKAGE. IN CASES WHERE MULTIPLE TRANSMISSION LINES ARE IMPACTED BY THE PROJECT, DET WILL ONLY ALLOW ONE CIRCUIT OUT OF SERVICE AT ANY GIVEN TIME.
 - ii. IF AT ANY TIME A DE- ENERGIZED LINE WILL NEED TO BE PLACED BACK INTO SERVICE, SUCH AS A SYSTEM EMERGENCY (e. g. HURRICANE, LOSS OF ANOTHER TRANSMISSION LINE, AND/OR EXTREME LOAD, ETC.) DET WILL ASK THE ROADWAY CONTRACTOR, WITHIN A TWO- HOUR PERIOD, TO SHUT DOWN ANY CONSTRUCTION THAT WOULD RESTRICT DET CONSTRUCTION CREWS FROM PLACING THE DE- ENERGIZED LINE BACK INTO SERVICE.
 - iii. TYPICALLY, ANY DE -ENERGIZING OF ANY DET LINES CAN OCCUR DURING THE FOLLOWING TIME PERIODS: OCTOBER 1ST TO NOVEMBER 15TH, AND MARCH 1ST TO APRIL 15TH. ANY ADDITIONAL REQUIRED DE- ENERGIZED TIME PERIODS NEEDED THROUGHOUT THE PROJECT WILL NEED TO BE COORDINATED WITH THE UAO REPRESENTATIVE PREVIOUSLY LISTED.
 - iv. TYPICALLY AN OUTAGE CANNOT EXCEED A TWO- WEEK DURATION; A NEW REQUEST MAY BE REQUIRED IF ADDITIONAL OUTAGE TIME IS NEEDED.
 - v. DET CANNOT GUARANTEE THAT THE ROADWAY CONTRACTOR WILL GET THE APPROVAL FOR THE OUTAGE; IT IS THE CONTRACTORS RESPONSIBILITY TO FOLLOW UP WITH THE ABOVE- LISTED CONTACT.
 - vi. IF FOR ANY REASON THE OUTAGE WAS APPROVED BUT CAN'T BE ACCOMPLISHED, THE DET WILL RESERVE THE RIGHT TO CANCEL THE OUTAGE WITH 2-HOURS ADVANCE NOTIFICATION.
 - vii. IN CASES WHERE MULTIPLE TRANSMISSION LINES ARE IMPACTED BY THE PROJECT, DET WILL ONLY ALLOW ONE CIRCUIT OUT OF SERVICE AT ANY GIVEN TIME.
 - viii. A RESPONSIBLE REPRESENTATIVE FROM THE ROADWAY CONTRACTOR'S STAFF WILL ATTEND ALL DAILY AND NECESSARY PRE -JOB BRIEFING MEETINGS CONDUCTED BY DET.
 - ix. AN OUTAGE THAT IS REIMBURSABLE TO DET MAY REQUIRE PAYMENT PRIOR TO THE INITIATION OF THE OUTAGE.
3. THIS PROJECT IS TO BE CONSTRUCTED IN THE VICINITY OF ENERGIZED 69 AND 230 kV OH TRANSMISSION.
4. WHEN DOING ANY WORK OR TASK UNDER OR NEAR ANY DET FACILITIES, ALL NESC & OSHA GUIDELINES MUST BE ADHERED TO.
5. WHEN THE ROADWAY CONTRACTOR IS EXCAVATING AROUND DET FACILITIES, THEY SHALL PROVIDE AT LEAST A 15-FOOT HORIZONTAL CLEARANCE TO THE FACILITY; IF THIS CANNOT BE MET, A NOTIFICATION MUST BE SENT TO THE UAO FIELD REPRESENTATIVE LISTED TO ARRANGE FOR A FIELD MEETING.
6. THE ROADWAY CONTRACTOR IS PROHIBITED FROM STACKING MATERIAL (SOILS, FILL DIRT, GRAVEL. ETC.) UNDER OR NEAR ENERGIZED OVERHEAD POWER LINES.

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

REVISIONS				 JINHAO MAI, P.E. LICENSE NO. 91872 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		DUKE ENERGY NOTES	SHEET NO. T-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084			



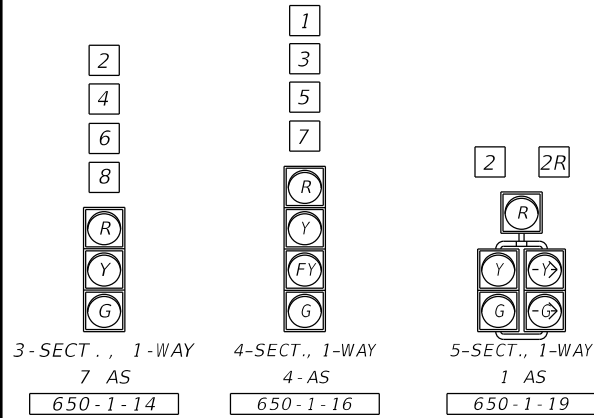
CONTROLLER OPERATIONS:

1. EXISTING TIMINGS AND SIGNAL OPERATING PLANS ARE TO REMAIN.

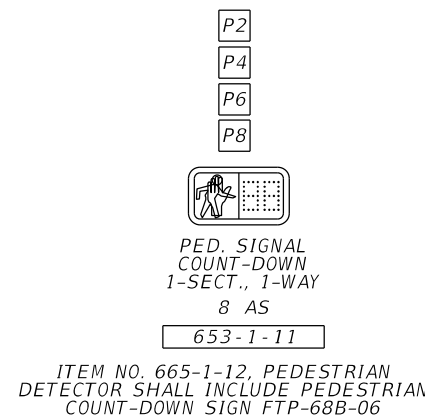
REVISIONS				JINHAO MAI, P.E. LICENSE NO. 91872 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SIGNALIZATION PLAN	SHEET NO. T-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

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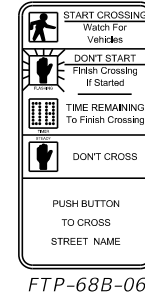
SIGNAL HEAD DETAILS



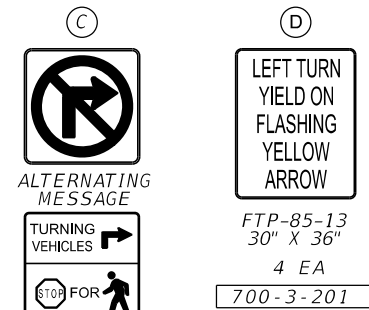
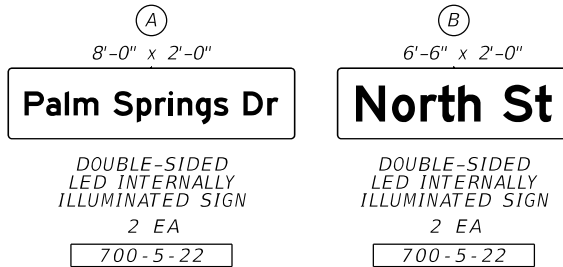
PEDESTRIAN HEAD DETAILS



PEDESTRIAN DETECTOR SIGNS



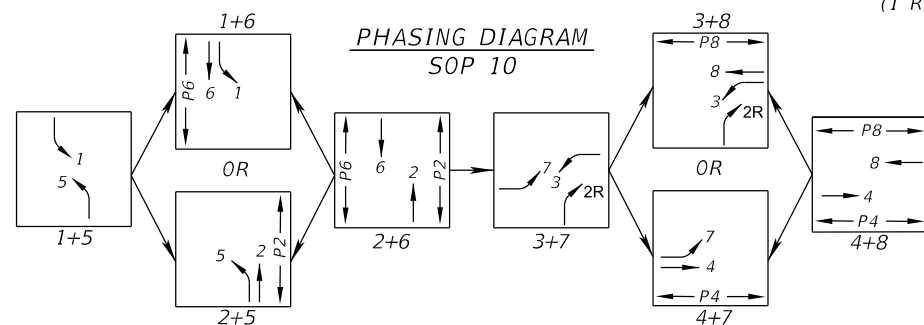
OVERHEAD SIGN DETAILS



DETECTORS FOR LOOPS				
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	DELAY TIME (SEC)	DETECTOR INPUTS
L-1	1	1	5	CH1
L-2R	1	1	5	CH5
L-2	1	1		CH6
L-2I	1	1		CH13
L-3	1	1	5	CH17
L-4	1	1		CH21
L-4I	1	1		CH30
L-5	1	1	5	CH33
L-6	1	1		CH37
L-6I	1	1		CH45
L-7	1	1	5	CH49
L-8	1	1		CH53
L-8I	1	1		CH64

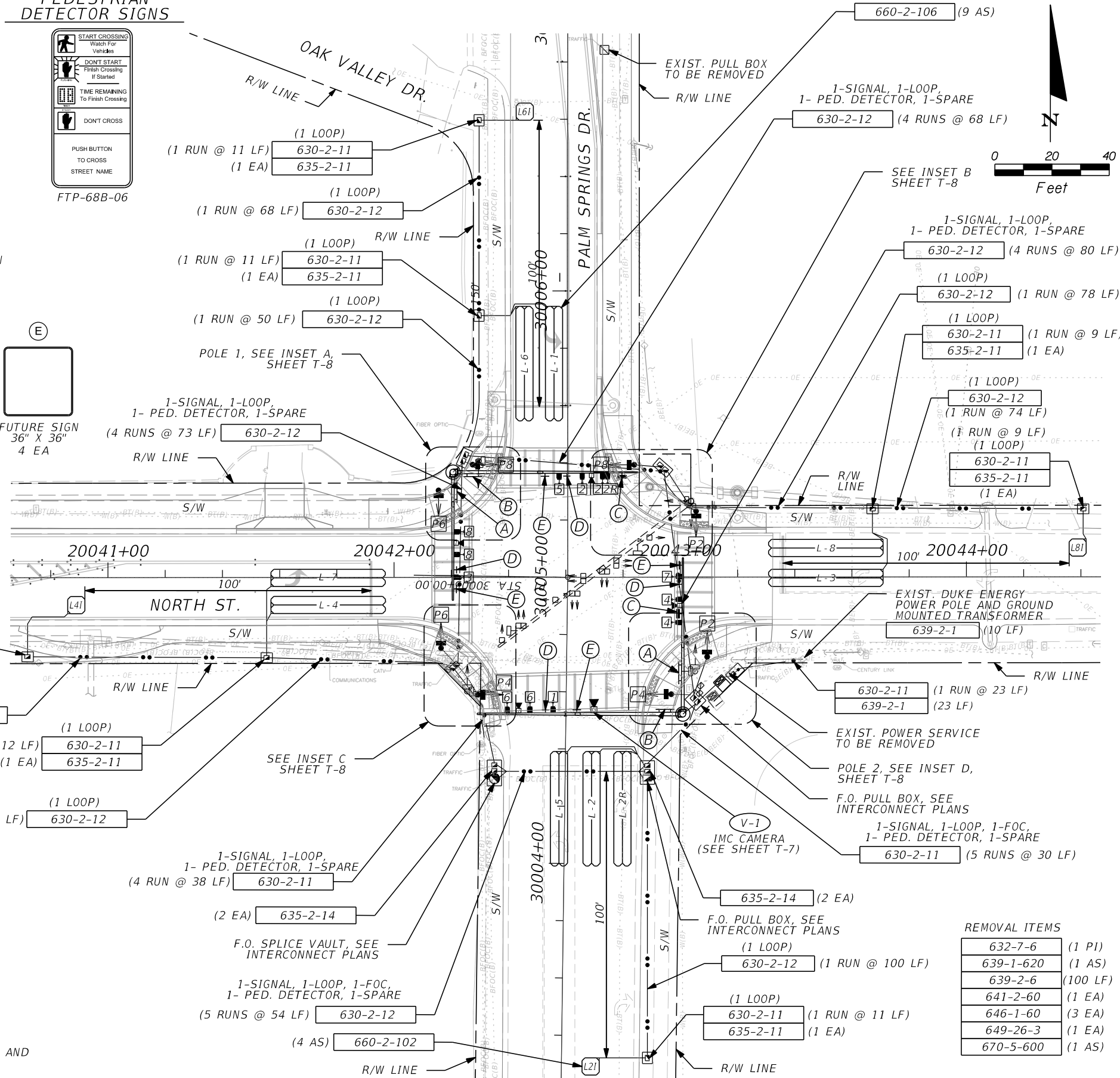
BLANK OUT SIGN 36 X 36"
 R3-1 OPERATES WHEN P2 OR P4 IS ACTIVE WITH PHASES 2 OR 4.
 R10-15a OPERATES WHEN PHASE 2 OR PHASE 4 IS ACTIVE.
 2 AS
 700-11-391

PHASING DIAGRAM SOP 10



CONTROLLER OPERATIONS:

1. MAJOR STREET IS PALM SPRINGS DR., 30 MPH NB AND 25 MPH SB, (MOVEMENTS 1, 2, 5 AND 6) AND MINOR STREET IS NORTH ST., 25 MPH EB AND 35 MPH WB, (MOVEMENTS 3, 4, 7 AND 8).



REMOVAL ITEMS	
632-7-6	(1 PI)
639-1-620	(1 AS)
639-2-6	(100 LF)
641-2-60	(1 EA)
646-1-60	(3 EA)
649-26-3	(1 EA)
670-5-600	(1 AS)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
 LICENSE NO. 91872
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

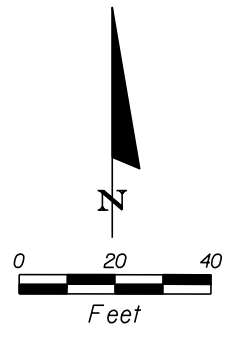
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD: RAYMOND AVE., NORTH ST., PALM SPRINGS DR.
 COUNTY CIP No.: 01907084

SIGNALIZATION PLAN

SHEET NO. T-6

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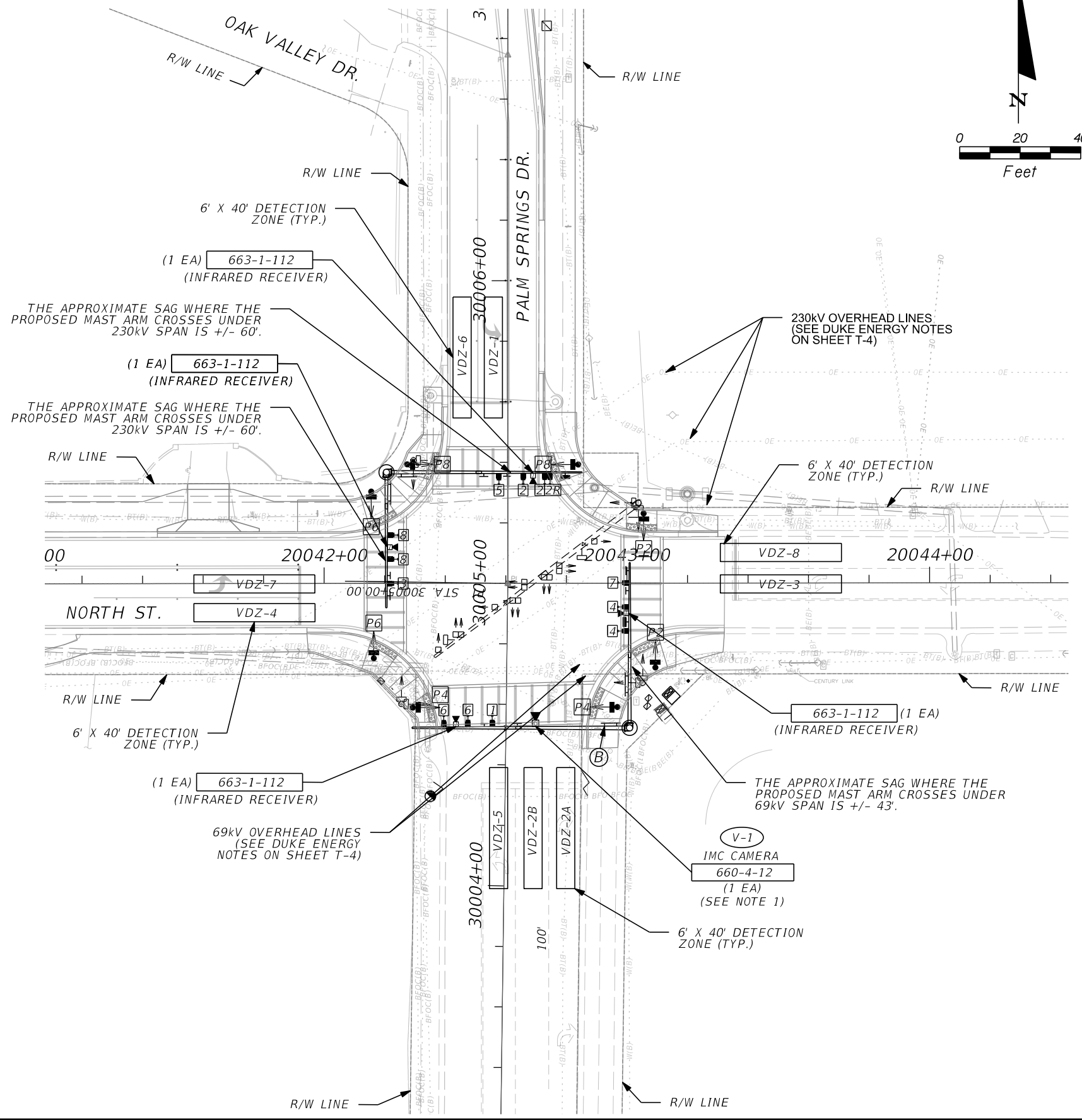


VIDEO VEHICLE DETECTION ASSIGNMENTS			
VIDEO DETECTION	DETECTION ZONE	DELAY (SEC)	DETECTOR INPUTS
V-1	VDZ1	5	CH1
	VDZ2A	5	CH5
	VDZ2B		CH6
	VDZ3	5	CH17
	VDZ4		CH21
	VDZ5	5	CH33
	VDZ6		CH37
	VDZ7	5	CH49
	VDZ8		CH53

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

EXIST. CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	6	6	6	6	6	6	6	6
EXTENSION	3	4	3	4	3	4	3	4
MAXIMUM GREEN 1	20	45	35	30	20	45	20	30
MAXIMUM GREEN 2	20	45	35	30	20	45	20	30
YELLOW CLEARANCE	*3.4	*3.7	*4.0	*4.0	*3.7	*3.7	*3.4	*4.0
ALL RED	*2.0	*2.0	*2.0	*2.0	*2.0	*2.0	*2.0	*2.0
PEDESTRIAN WALK	7		7		7		7	
PED. CLEARANCE	*11		*16		*12		*11	
RECALL	ON				ON			

* DENOTES UPDATED YELLOW CLEARANCE, ALL RED AND PED. CLEARANCE DUE TO SPEED LIMIT AND ROADWAY GEOMETRY MODIFICATIONS.



CONTROLLER OPERATIONS:

- MAJOR STREET IS PALM SPRINGS DR., 30 MPH NB AND 25 MPH SB, (MOVEMENTS 1, 2, 5 AND 6) AND MINOR STREET IS NORTH ST., 25 MPH EB AND 35 MPH WB, (MOVEMENTS 3, 4, 7 AND 8).

SIGNALIZATION NOTES:

- IMC CAMERA TO WORK ALONG SIDE TYPE F LOOPS AT THE STOP BARS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E. LICENSE NO. 91872
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
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 FAX 407.420.4242

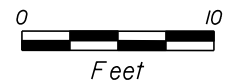
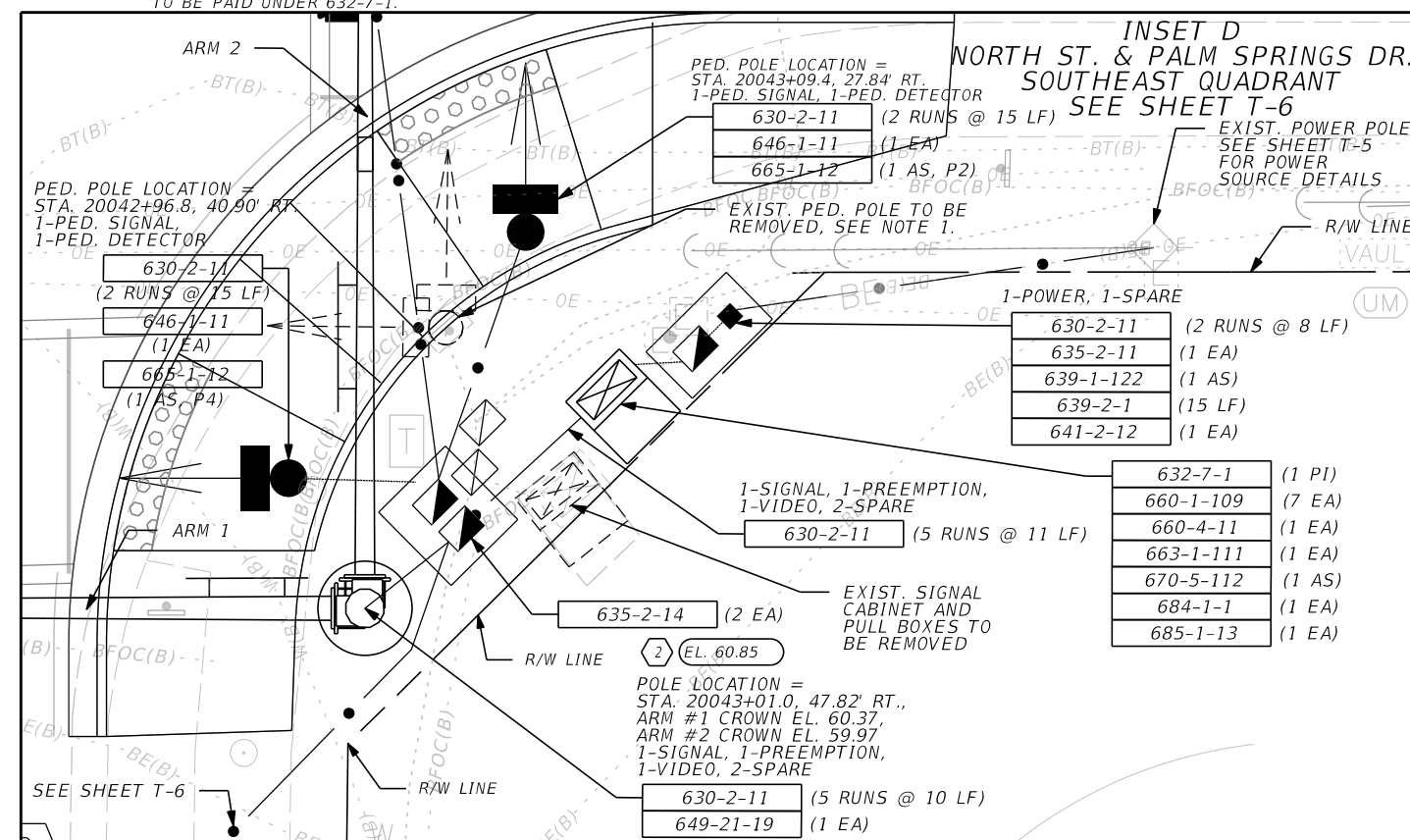
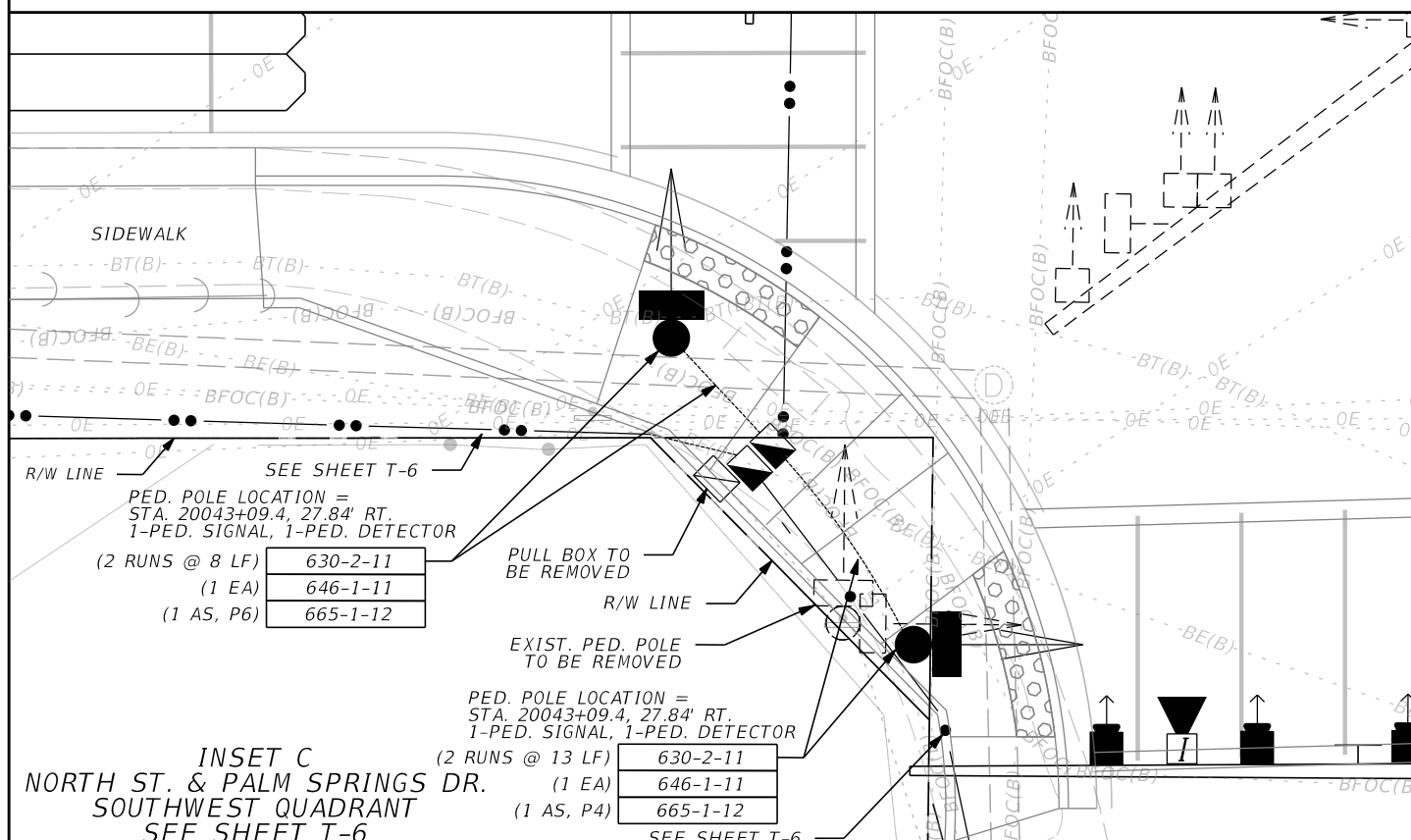
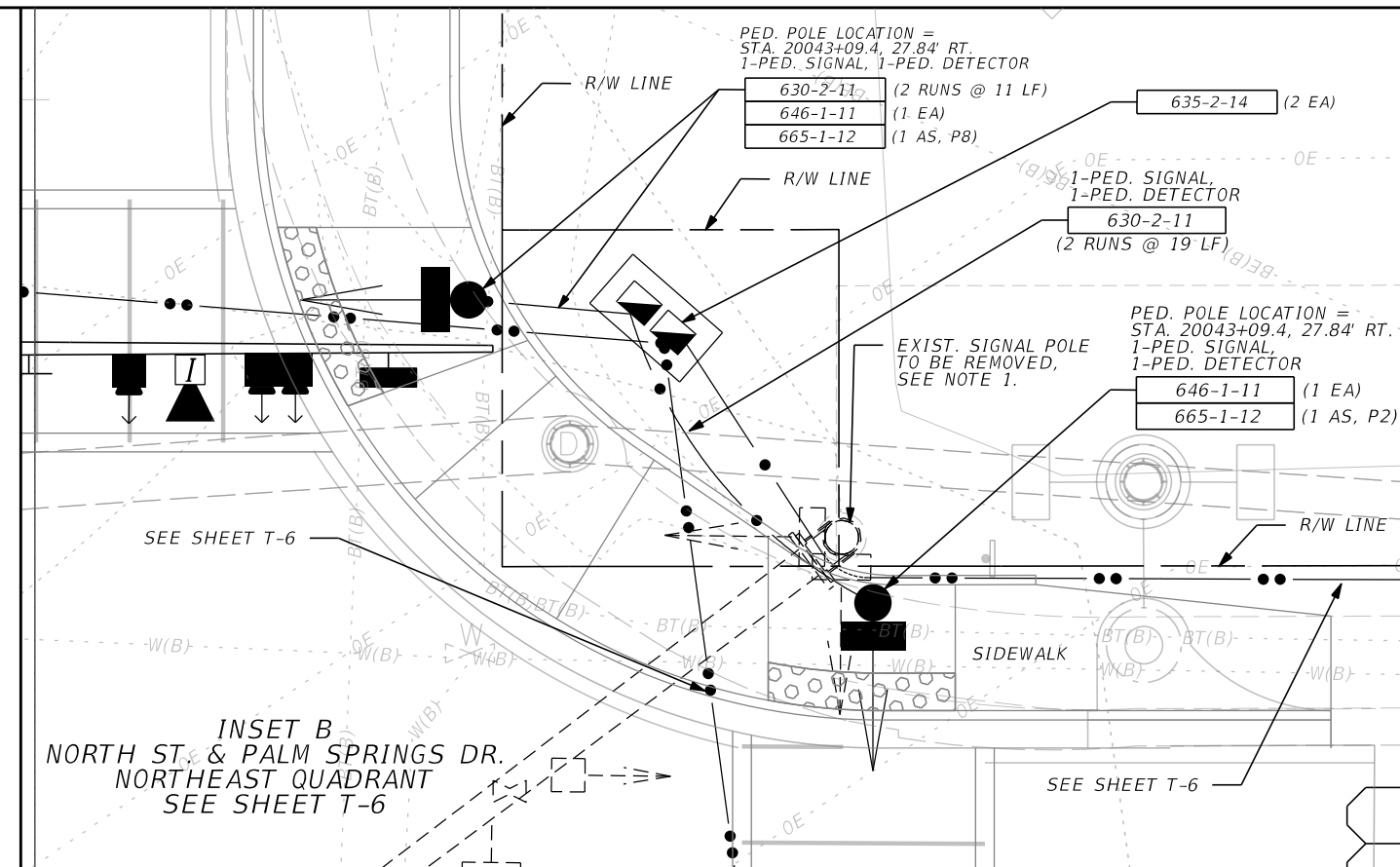
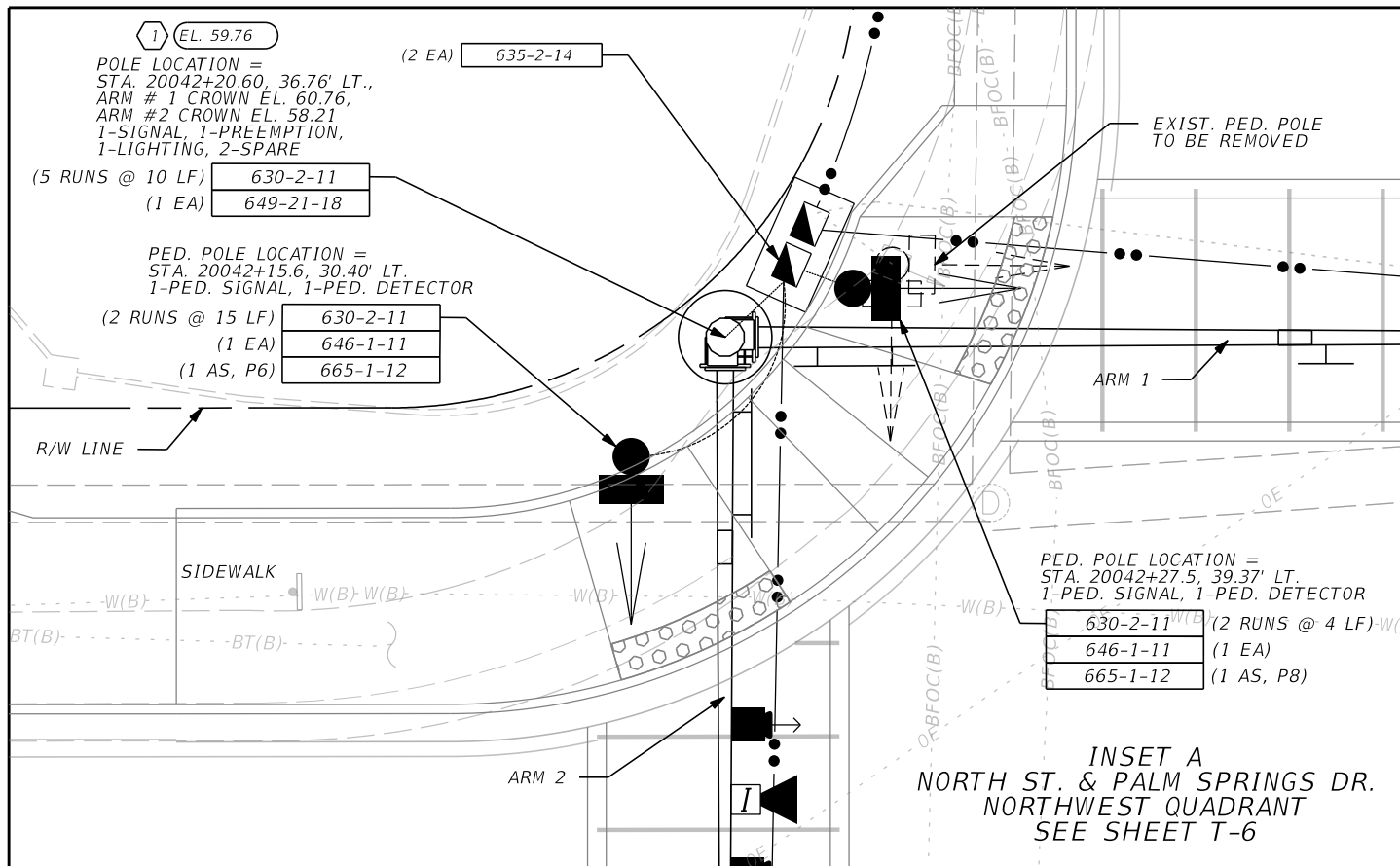
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNALIZATION PLAN

SHEET NO.
 T-7

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



SIGNALIZATION NOTES:

- REMOVE EXISTING PEDESTRIAN CONTROL BOXES FROM MAST ARM POLE ON NE CORNER AND FROM PEDESTRIAN POLE ON THE SE CORNER AND RETURN TO SEMINOLE COUNTY. INSTALL A 3-CONDUCTOR CABLE FROM THE CABINET TO EACH PROPOSED PEDESTRIAN SIGNAL ON THE NE AND SE CORNERS. COIL ADDITIONAL CABLE IN BASE. SEMINOLE COUNTY WILL FURNISH AND INSTALL NEW PEDESTRIAN CONTROL BOXES. TO BE PAID UNDER 632-7-1.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E.
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FAX 407.420.4242

SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

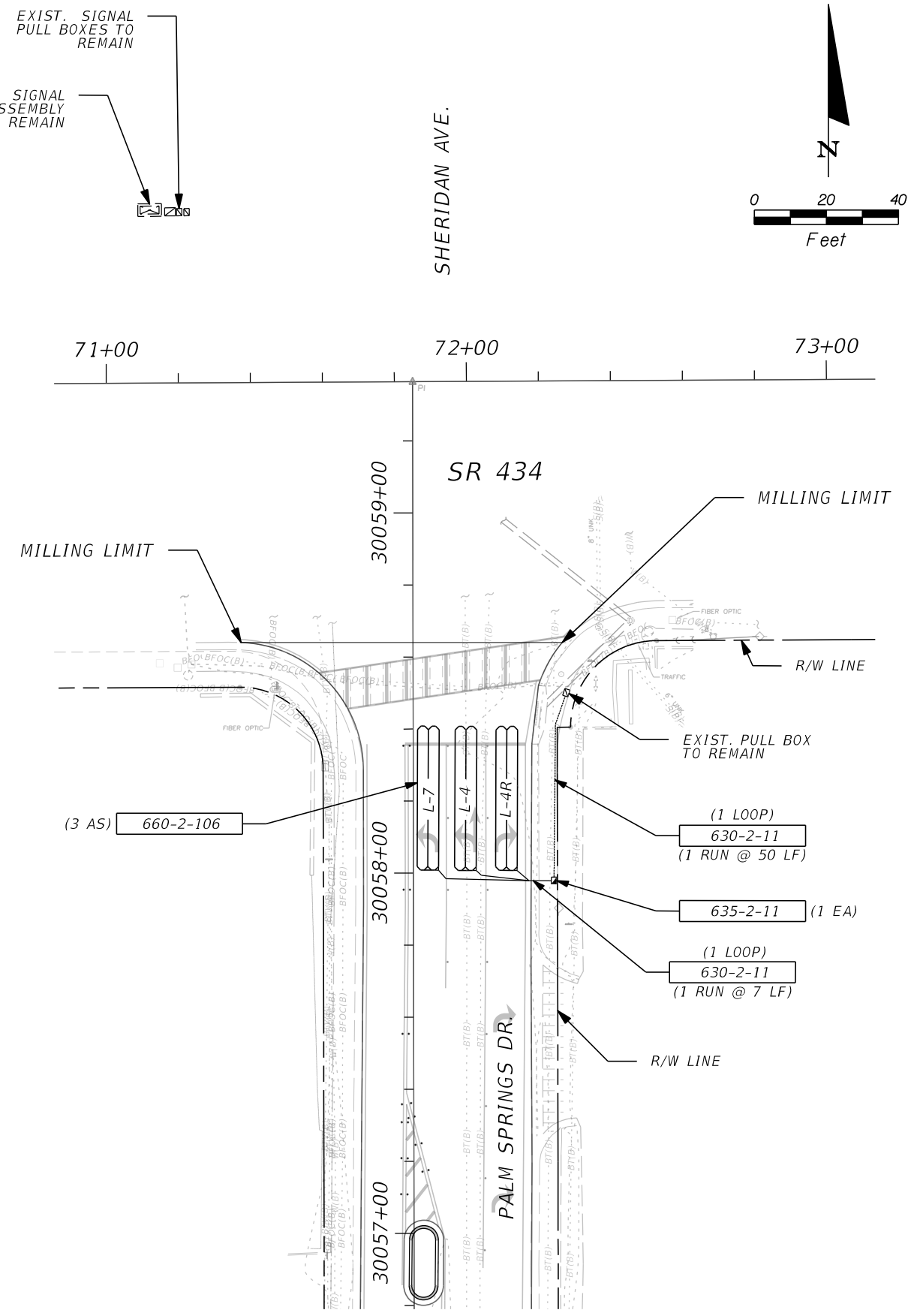
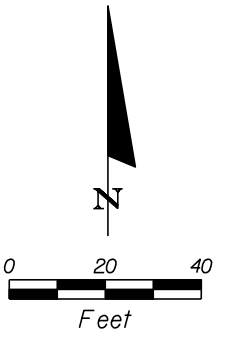
SIGNALIZATION PLAN

SHEET NO.
T-8

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EXIST. SIGNAL PULL BOXES TO REMAIN

EXIST. SIGNAL CABINET ASSEMBLY TO REMAIN



CONTROLLER OPERATIONS:

- EXISTING TIMINGS AND SIGNAL OPERATING PLANS ARE TO REMAIN.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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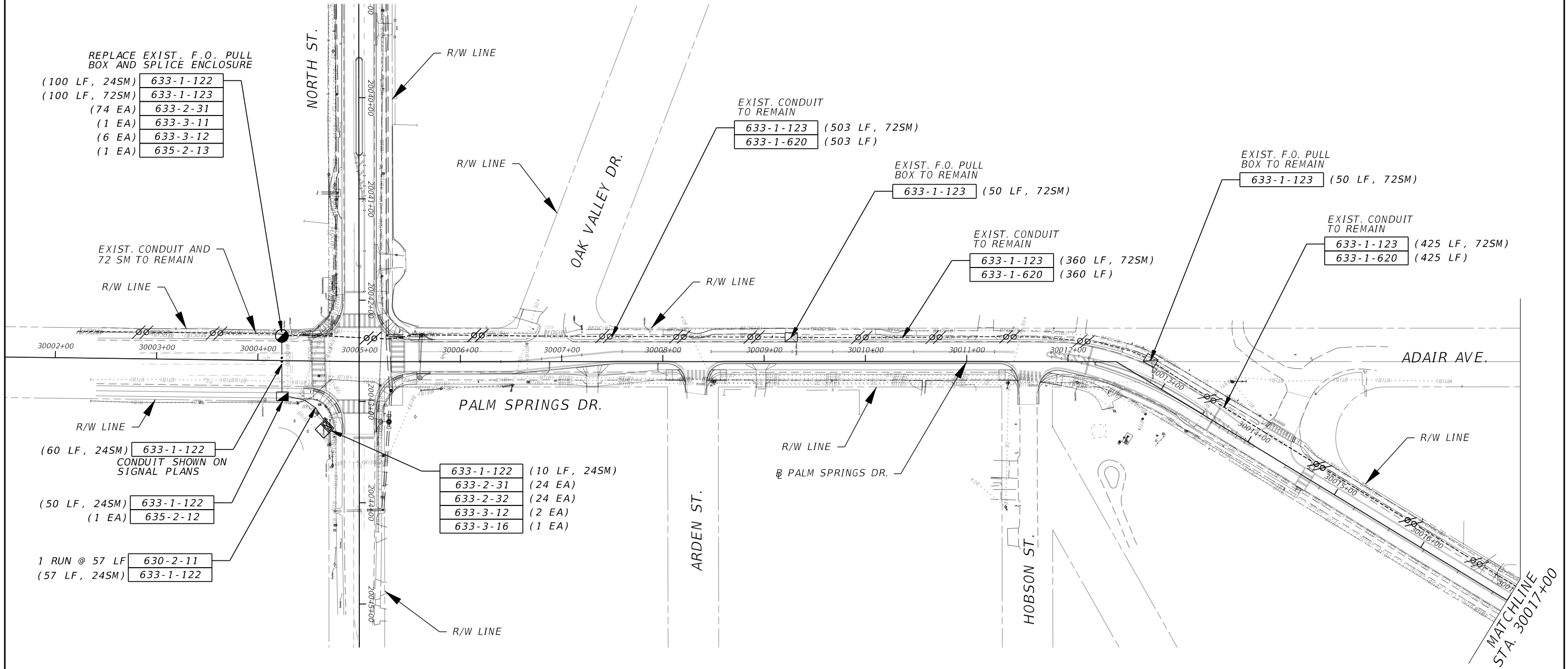
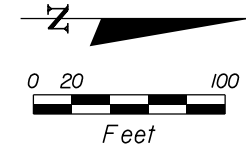
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNALIZATION PLAN


SHEET NO.
 T-9

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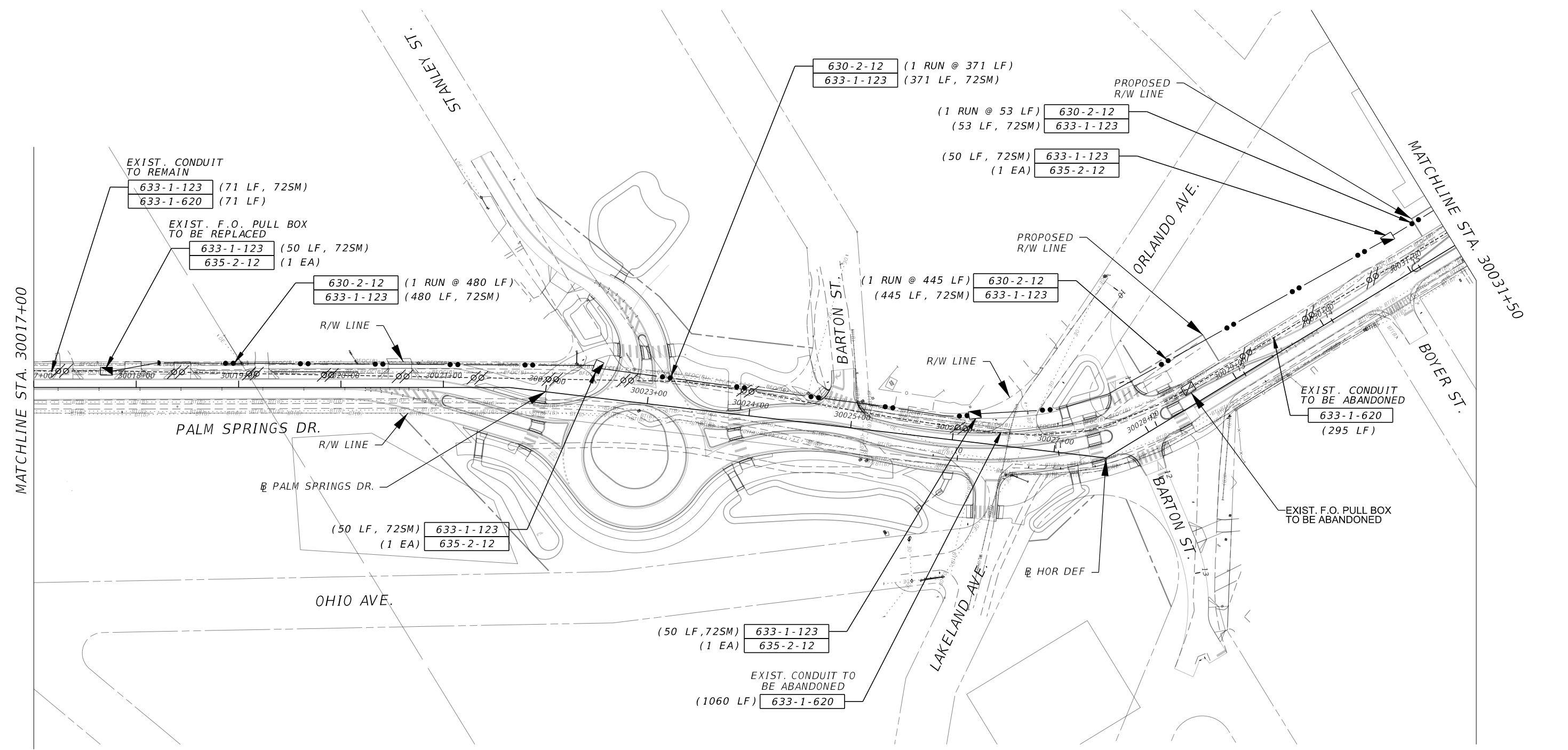
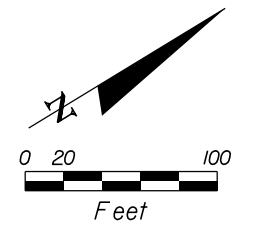
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

INTERCONNECT PLAN
 PALM SPRINGS DR.

SHEET NO.
 T-10

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REVISIONS			
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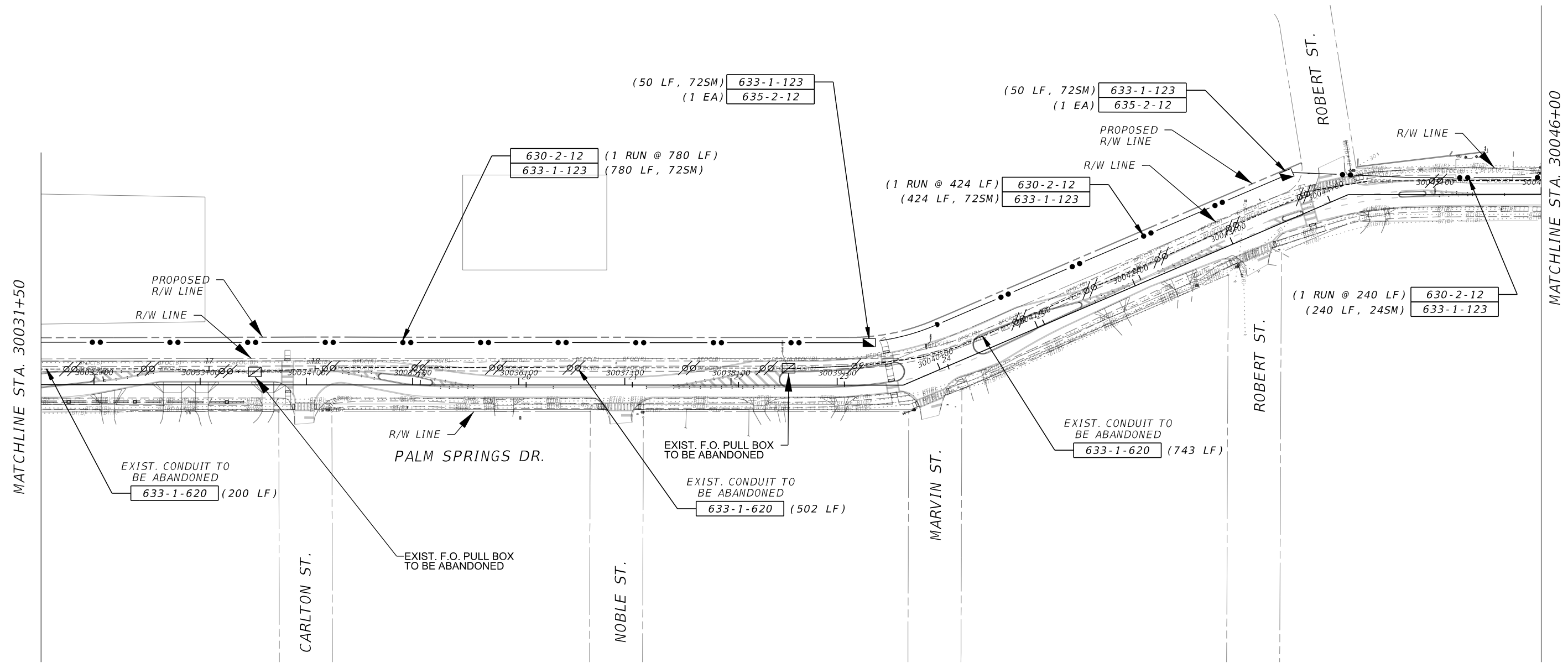
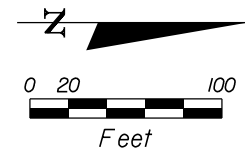


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

INTERCONNECT PLAN
 PALM SPRINGS DR.


SHEET NO.
 T-11

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REVISIONS			
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 315 E. ROBINSON ST.
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 ORLANDO, FL 32801
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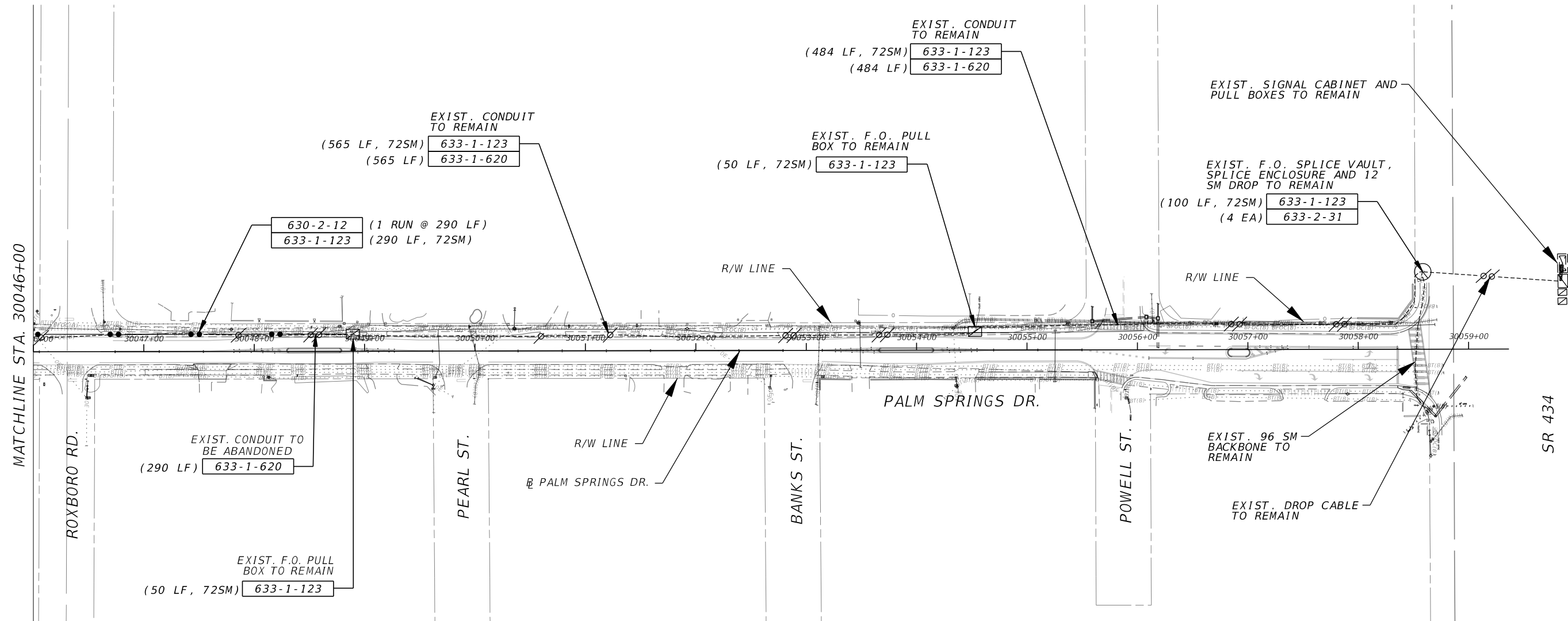
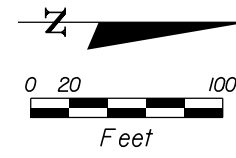
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

INTERCONNECT PLAN
 PALM SPRINGS DR.

SHEET NO.
 T-12

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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

INTERCONNECT PLAN
 PALM SPRINGS DR.

SHEET NO.
 T-13

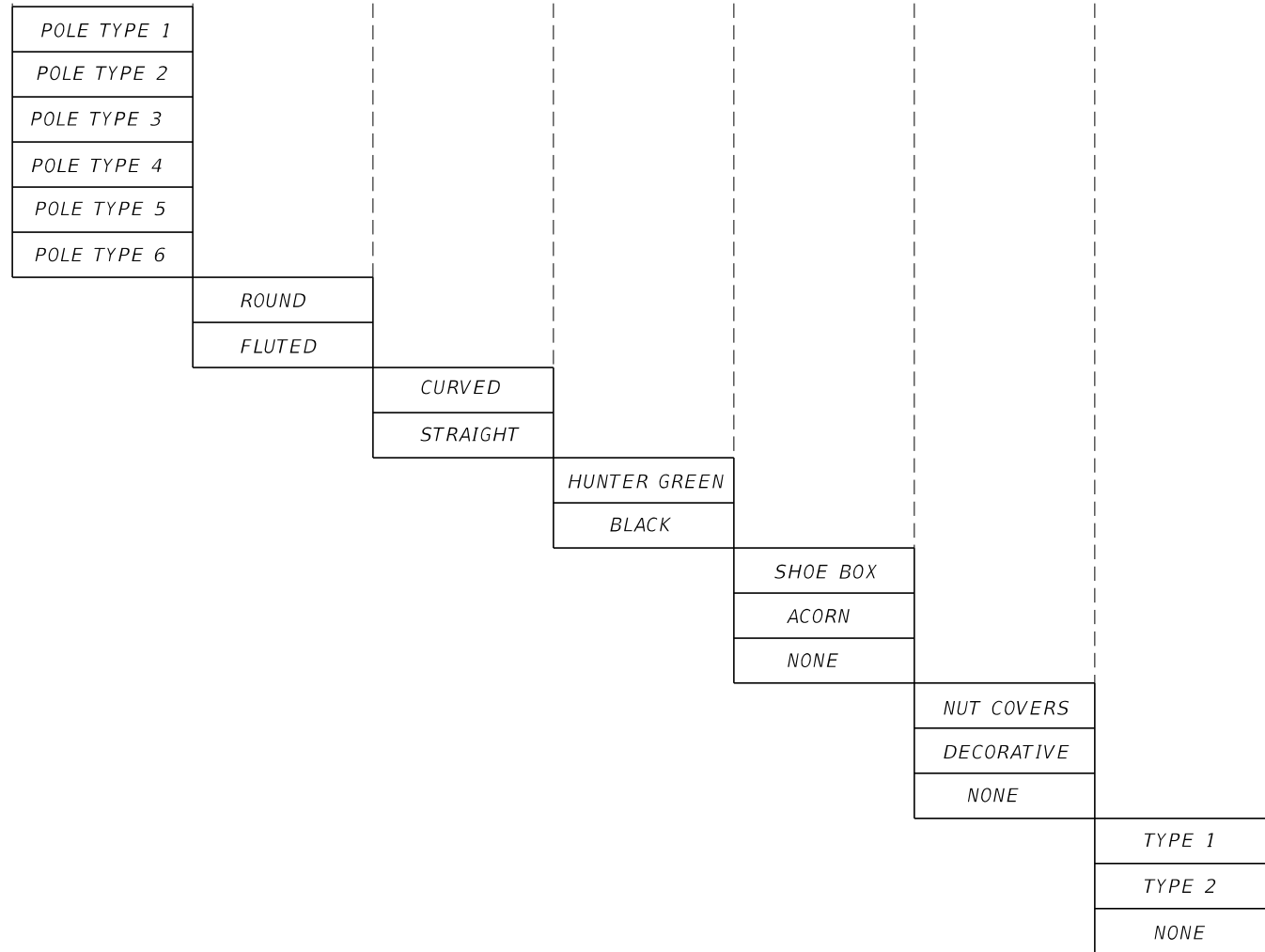
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SPECIFICATION OF MAST ARMS

Mast Arm Structures constructed in accordance with these standards shall be specified as follows:

POLE I.D.	POLE TYPE	POLE STYLE	ARM STYLE*	COLOR	LUMINAIRE	BASE	BANNER	FIRST ARM LENGTH	SECOND ARM LENGTH	ANGLE BETWEEN ARMS
POLE 1	POLE TYPE 2	ROUND	STRAIGHT	BLACK	NONE	NUT COVERS	NONE	65'	45'	270°
POLE 2	POLE TYPE 2	ROUND	STRAIGHT	BLACK	NONE	NUT COVERS	NONE	72'	55'	270°

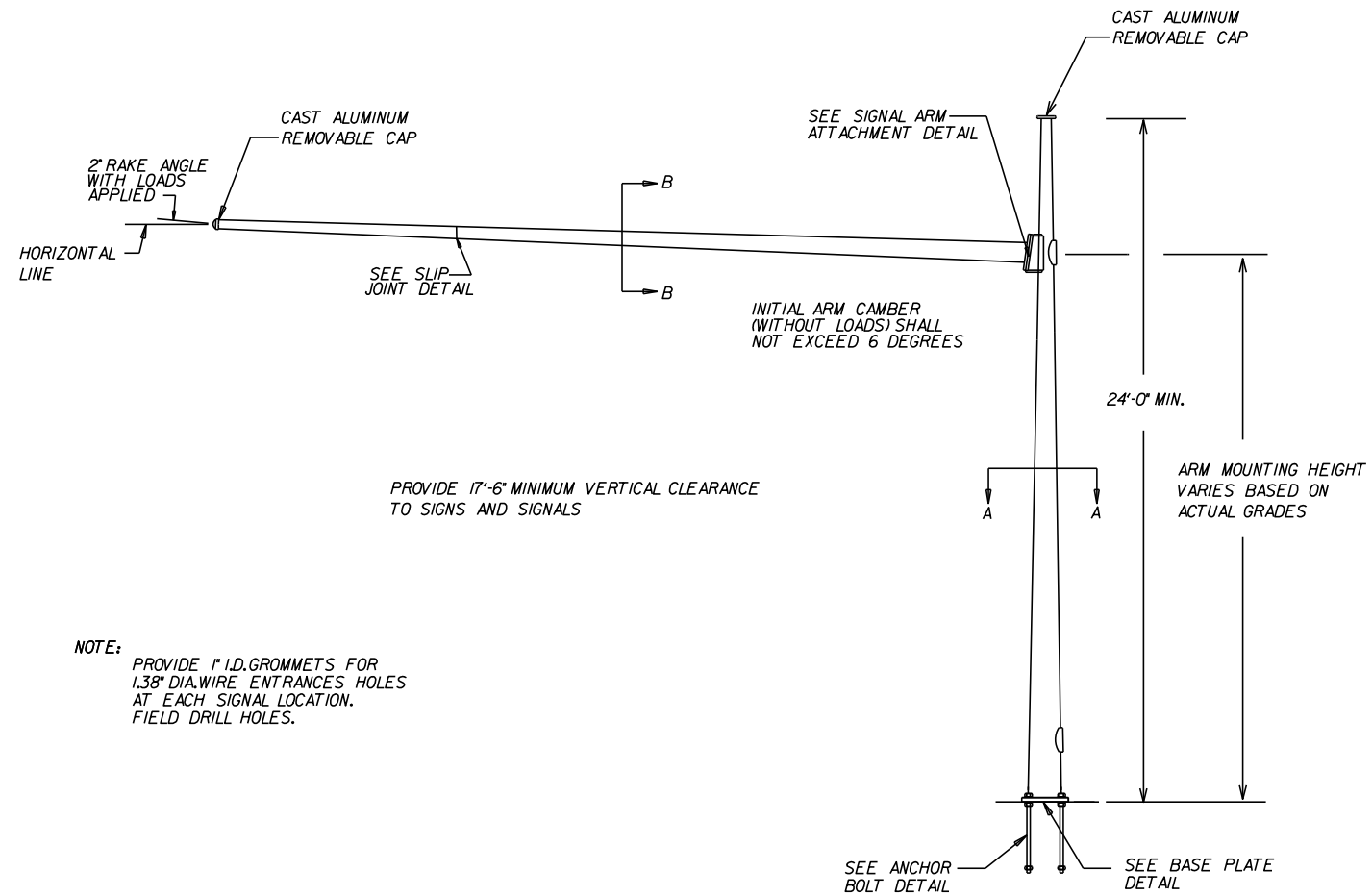
AVAILABLE OPTIONS



* NOTE: ARM STYLE SHALL BE CONSISTANT AT EACH INTERSECTION. EITHER ALL CURVED OR ALL STRAIGHT ARMS SHALL BE USED AT AN INTERSECTION.

REVISIONS				JINHAO MAI, P.E. LICENSE NO. 91872 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		POLE SCHEDULE DATA SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		T-15
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		

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ELEVATION

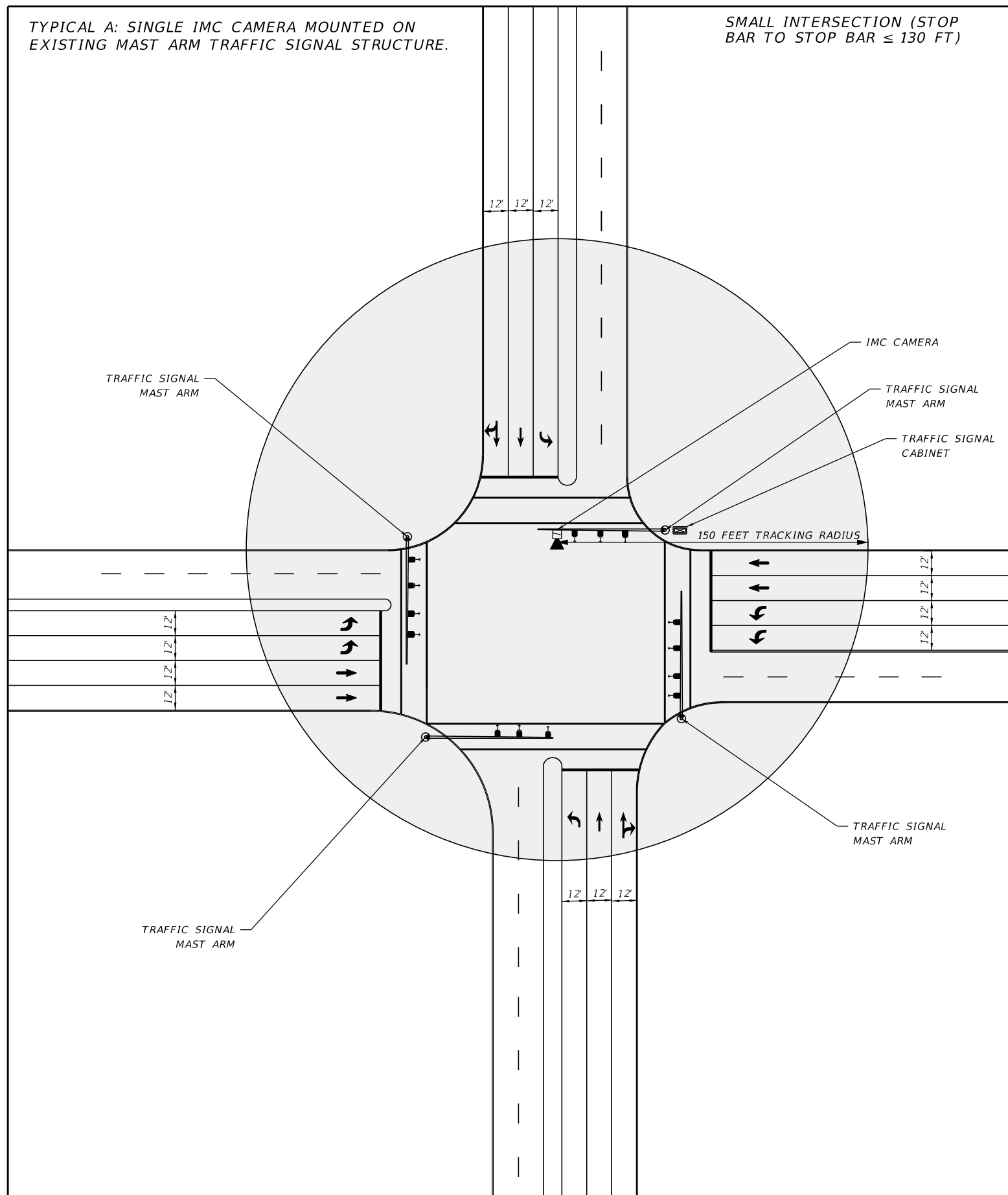
NOTES:
1. SEE SEMINOLE COUNTY 2017 - 2018 (OR LATEST) STANDARD MAST ARM DRAWINGS.

NON-FLUTED POLE WITHOUT LUMINAIRE
STRAIGHT ARM

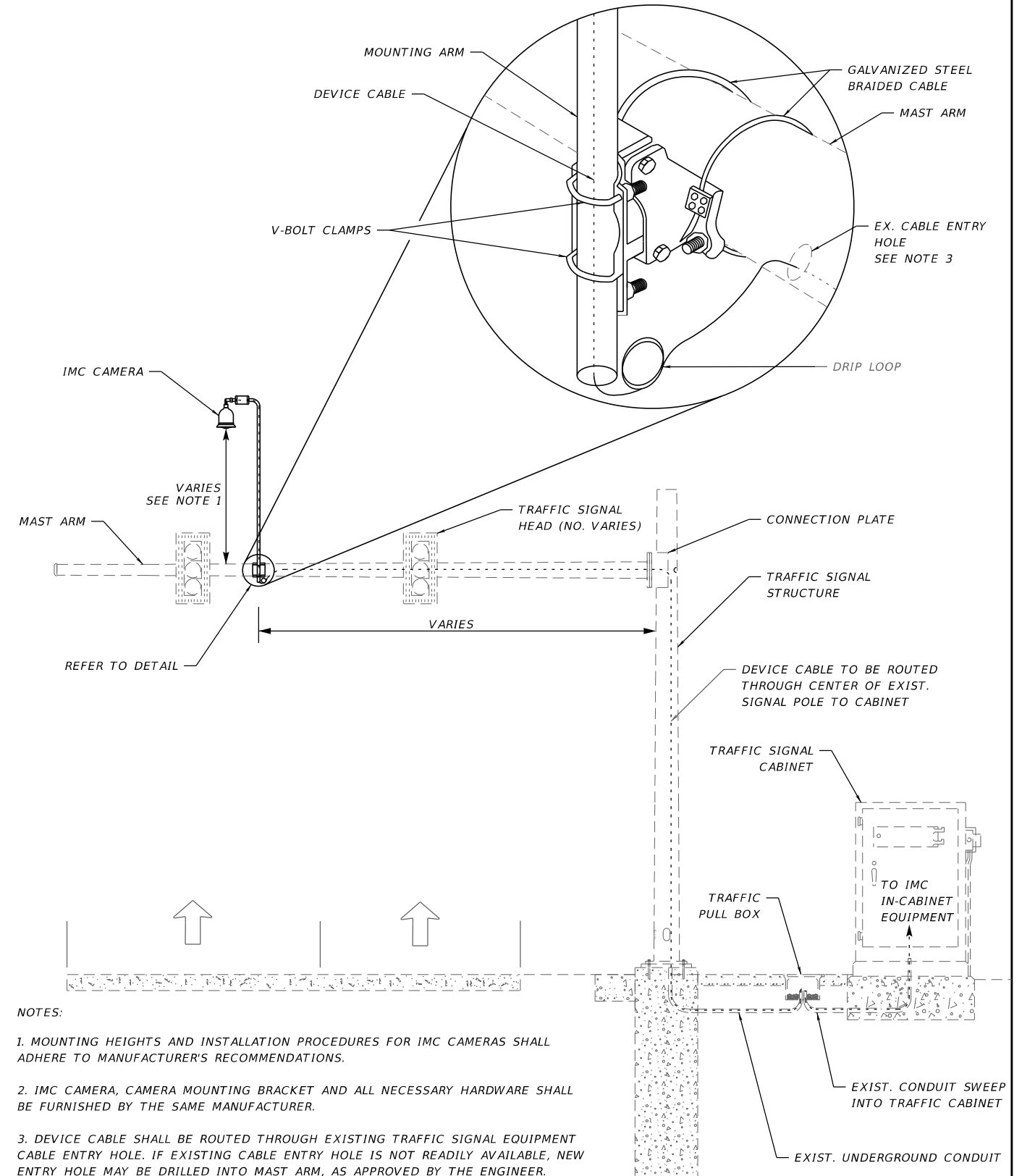
REVISIONS				<p>JINHAO MAI, P.E.</p> <p>LICENSE NO. 91872</p> <p>315 E. ROBINSON ST.</p> <p>SUITE 400</p> <p>ORLANDO, FL 32801</p> <p>PHONE 407.420.4200</p> <p>FAX 407.420.4242</p>	<p>SEMINOLE COUNTY</p> <p>ENGINEERING DIVISION</p> <p>ROLLING HILLS AREA ROADWAYS PHASE 1</p>		<p>ROAD</p> <p>RAYMOND AVE., NORTH</p> <p>ST., PALM SPRINGS DR.</p>	<p>COUNTY CIP No.</p> <p>01907084</p>	<p>MAST ARM DETAIL</p>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		T-16					

TYPICAL A: SINGLE IMC CAMERA MOUNTED ON EXISTING MAST ARM TRAFFIC SIGNAL STRUCTURE.

SMALL INTERSECTION (STOP BAR TO STOP BAR ≤ 130 FT)



IMC CAMERA MOUNTING BRACKET CABLE MOUNT DETAIL
N.T.S.



NOTES:

1. MOUNTING HEIGHTS AND INSTALLATION PROCEDURES FOR IMC CAMERAS SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS.
2. IMC CAMERA, CAMERA MOUNTING BRACKET AND ALL NECESSARY HARDWARE SHALL BE FURNISHED BY THE SAME MANUFACTURER.
3. DEVICE CABLE SHALL BE ROUTED THROUGH EXISTING TRAFFIC SIGNAL EQUIPMENT CABLE ENTRY HOLE. IF EXISTING CABLE ENTRY HOLE IS NOT READILY AVAILABLE, NEW ENTRY HOLE MAY BE DRILLED INTO MAST ARM, AS APPROVED BY THE ENGINEER.

LEGEND:

- EXISTING EQUIPMENT
- PROPOSED EQUIPMENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JINHAO MAI, P.E. LICENSE NO. 91872
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084


MOUNTING DETAILS
 IMC CAMERA

SHEET NO.
 T-17

<i>DRILLED SHAFT FOUNDATION TABLE</i>					
<i>POLE ID NO.</i>	<i>SOIL TYPE</i>	<i>DESIGN MOMENT</i> <i>(KIP-FEET)</i>	<i>DESIGN TORSION</i> <i>(KIP-FEET)</i>	<i>SHAFT LENGTH</i> <i>(FEET)</i>	<i>STIRRUP SPACING</i> <i>(IN.) (MAX.)</i>
<i>POLE 1</i>	<i>30-50-15</i>	<i>282.1</i>	<i>345.8</i>	<i>20</i>	<i>8</i>
<i>POLE 2</i>	<i>30-40-06</i>	<i>271.6</i>	<i>366.3</i>	<i>35</i>	<i>8</i>

GENERAL NOTES:

1. WORK THIS SHEET WITH THE "MAST ARM TABULATION" SHEET.
2. WORK WITH "SEMINOLE COUNTY 2017-18 STANDARD MAST ARM DRAWINGS".
3. DESIGN IS BASED ON SOIL DATA CONTAINED IN THE 09/08/2022 GEOTECHNICAL REPORT PREPARED BY GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. AND SIGNED AND SEALED BY VERNA E. WILLIFORD IV, P.E.
4. THE FOUNDATION SHALL BE REDESIGNED IF ACTUAL FOUNDATION FORCES COMPUTED BY CONTRACTOR'S MAST ARM FABRICATOR EXCEED THE DESIGN FORCES PROVIDED IN THE DRILLED SHAFT FOUNDATION TABLE.
5. MEDIUM DENSE TO DENSE SAND WAS ENCOUNTERED AT APPROXIMATE DEPTHS OF 13 TO 23 FEET IN BORINGS MAB-1 AND MAB-2. FOUNDATION EXCAVATION INTO THESE MATERIALS MAY BE DIFFICULT AND MAY REQUIRE SPECIALIZED EQUIPMENT. BE PREPARED TO EXCAVATE INTO THESE MATERIALS.

<i>REVISIONS</i>				 <small>QING WANG, P.E. LICENSE NO. 93345 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242</small>	<small>SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1</small>		<p style="text-align: center;"><i>MAST ARM DRILLED SHAFT FOUNDATION TABLE</i></p>	<small>SHEET NO.</small> <i>T-18</i>
<small>DATE</small>	<small>DESCRIPTION</small>	<small>DATE</small>	<small>DESCRIPTION</small>		<small>ROAD</small>	<small>COUNTY CIP No.</small>		
					<small>RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.</small>	<small>01907084</small>		

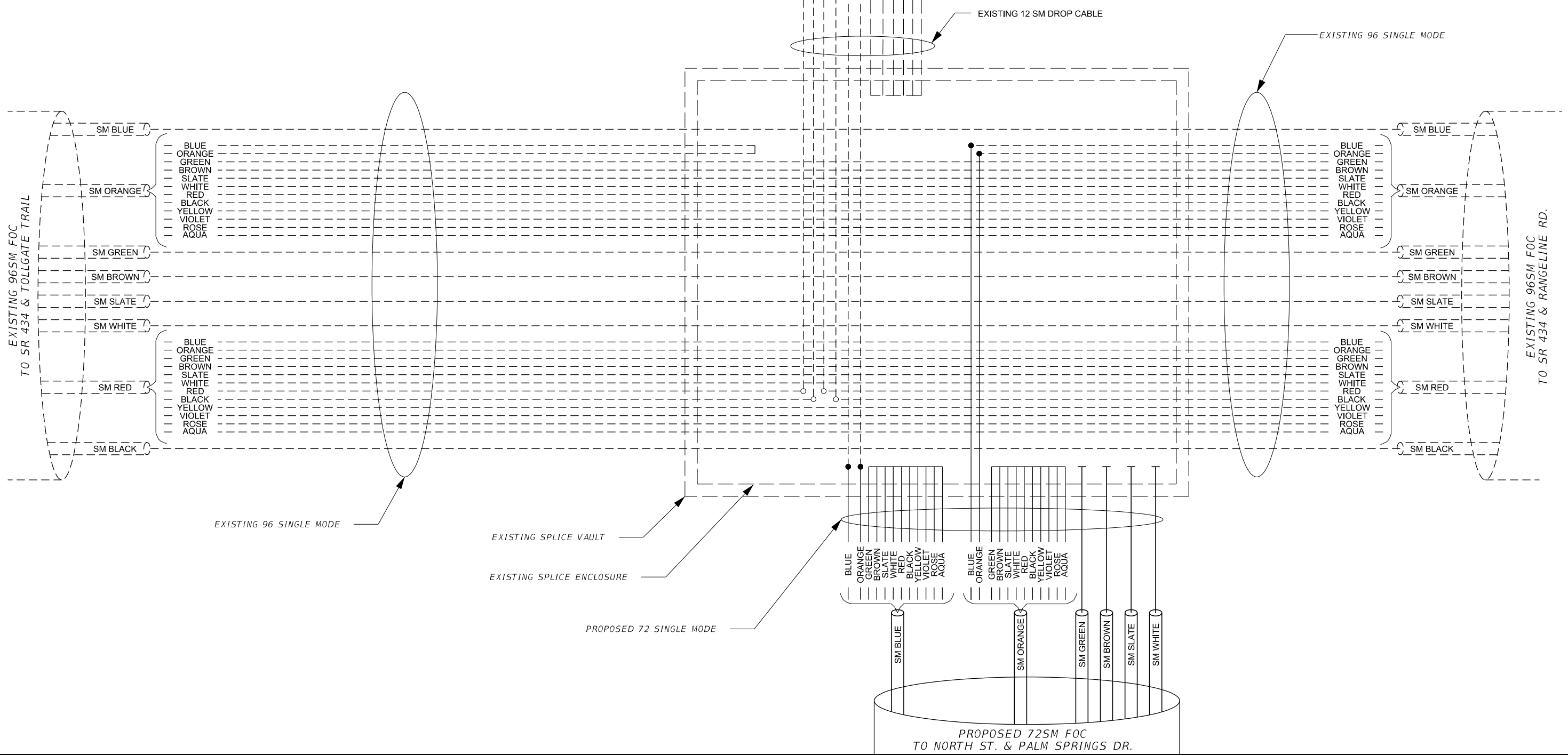
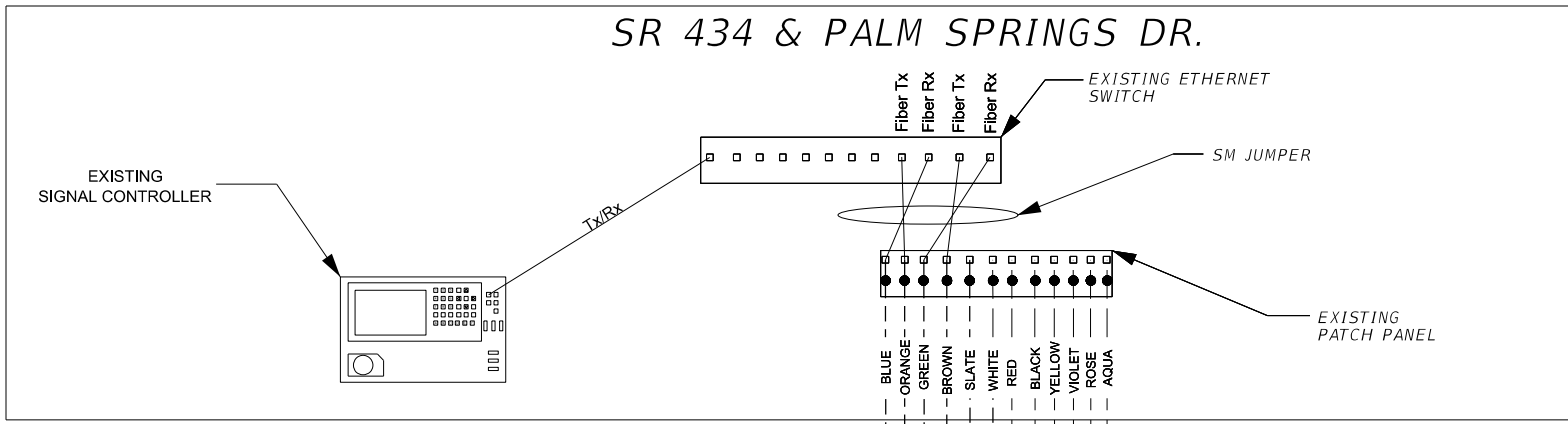
SR 434 & PALM SPRINGS DR.

NOTES:

- CONTACT SEMINOLE COUNTY BEFORE SPLICING TO OBTAIN THE MOST CURRENT SPLICE DETAILS.
- CAP AND COIL UNUSED FIBERS.

LEGEND:

- PROPOSED 72 SINGLE MODE
- - - EXISTING 96 SINGLE MODE
- - - EXISTING 12 SM DROP CABLE
- PROPOSED FIBER SPLICE
- EXISTING FIBER SPLICE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 315 E. ROBINSON ST.
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**FIBER SPLICING
 DIAGRAM**

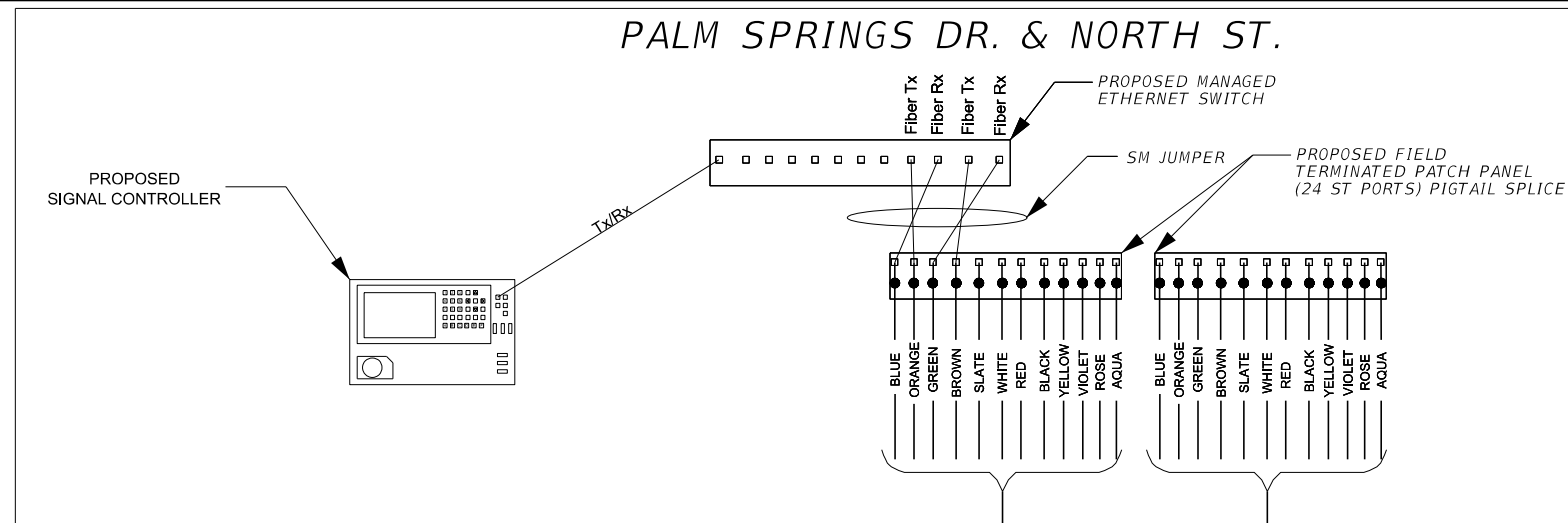
SHEET NO.
 T-19

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PALM SPRINGS DR. & NORTH ST.

NOTES:

1. CONTACT SEMINOLE COUNTY BEFORE SPLICING TO OBTAIN THE MOST CURRENT SPLICE DETAILS.
2. CAP AND COIL UNUSED FIBERS.

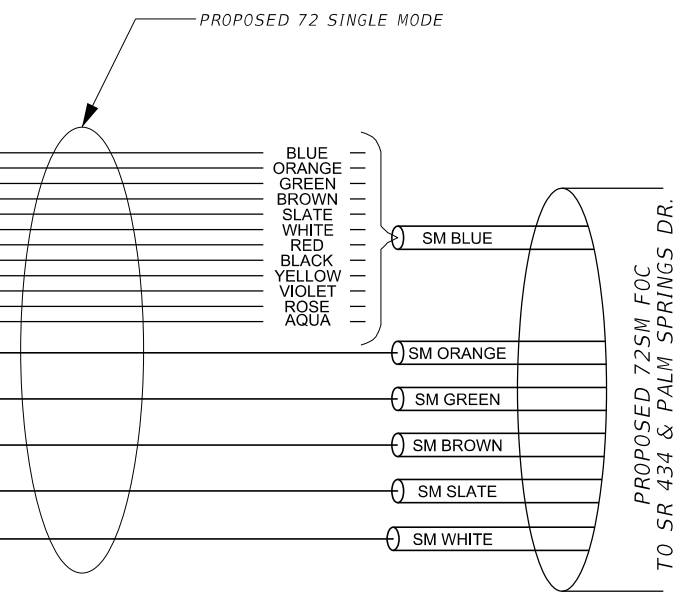
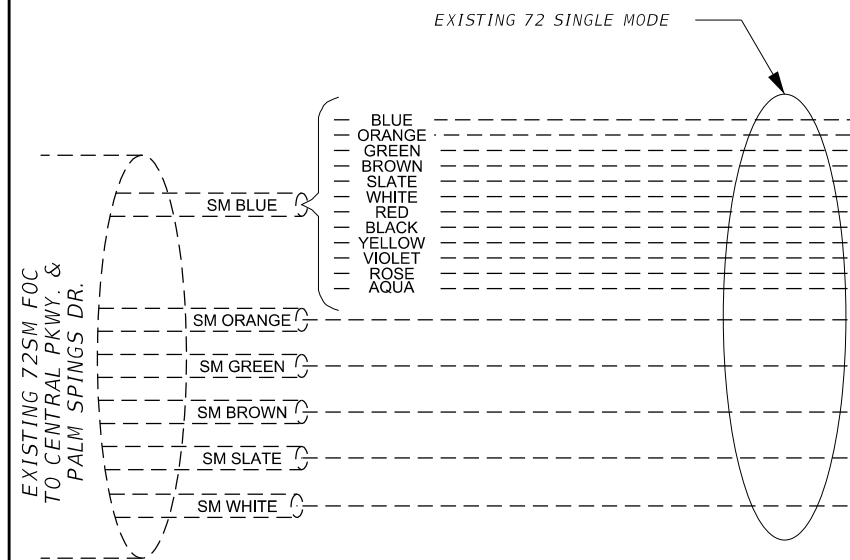
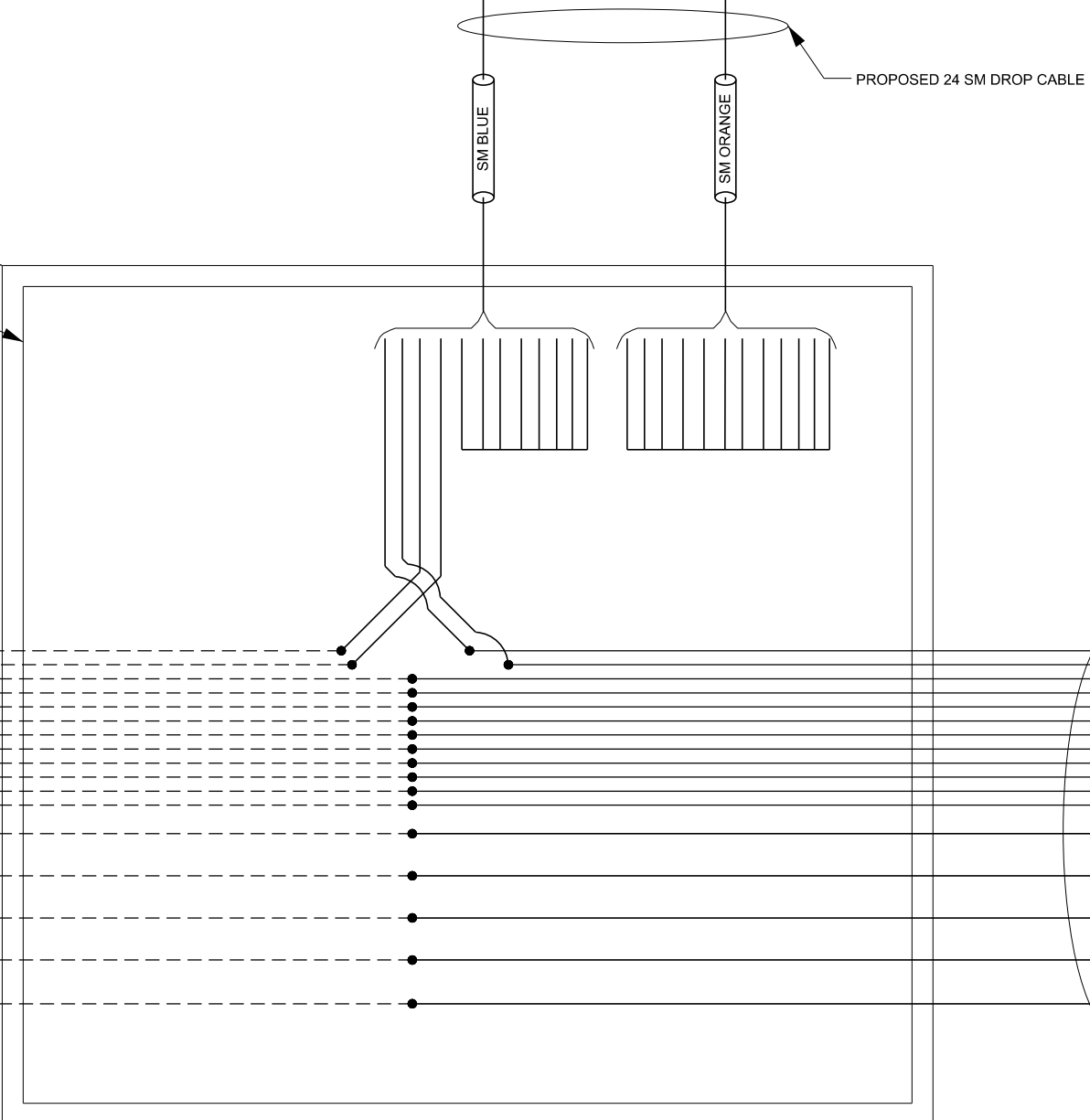


EXISTING SIGNAL CABINET

LEGEND:

- PROPOSED 72 SINGLE MODE
- - - EXISTING 72 SINGLE MODE
- PROPOSED 24 SM DROP CABLE
- PROPOSED FIBER SPLICE

PROPOSED SPLICE BOX
EXISTING SPLICE ENCLOSURE



EXISTING 72SM FOC TO CENTRAL PKWY. & PALM SPRINGS DR.

PROPOSED 72SM FOC TO SR 434 & PALM SPRINGS DR.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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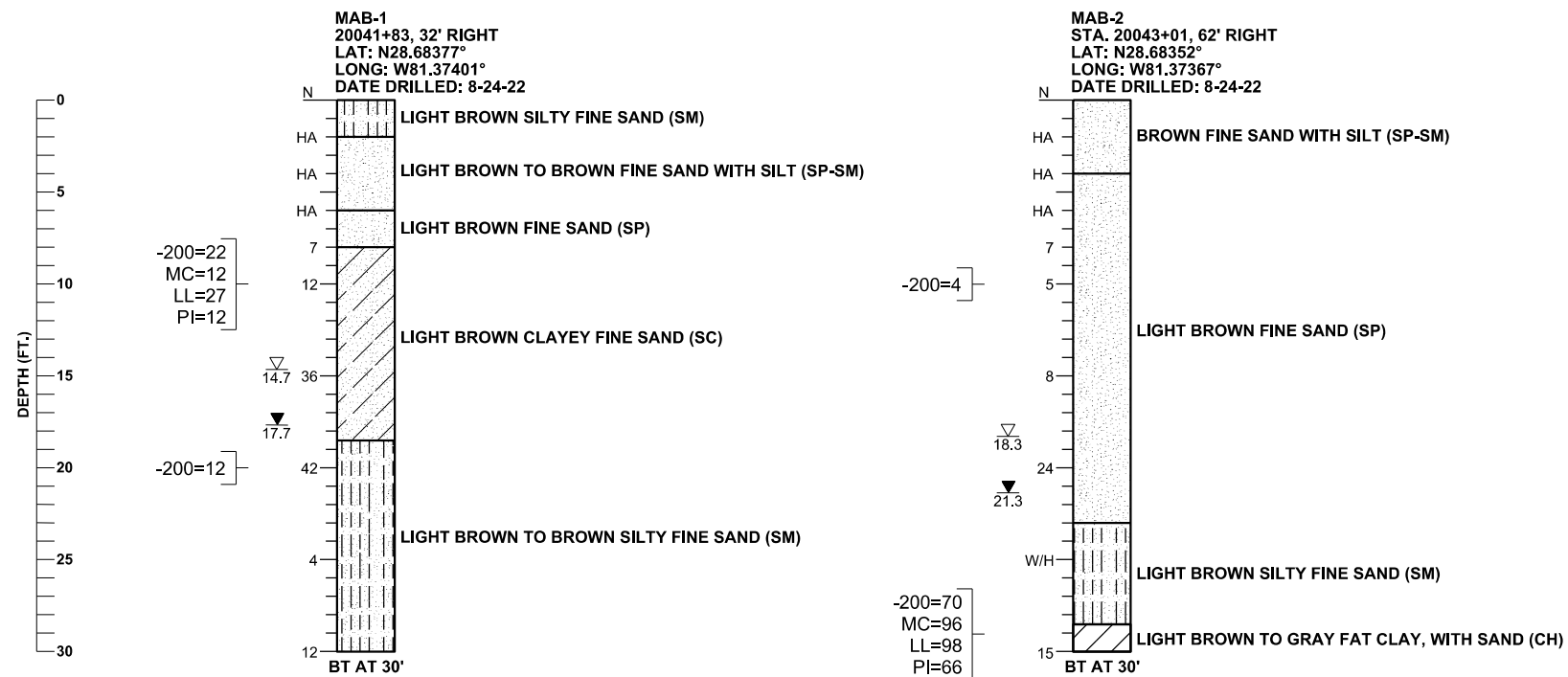


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
ROAD: RAYMOND AVE., NORTH ST., PALM SPRINGS DR.
COUNTY CIP No.: 01907084

FIBER SPLICING
DIAGRAM

SHEET NO.
T-20

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LEGEND

- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
- HA HAND AUGERED FOR UTILITY CLEARANCE
- W/H WEIGHT OF HAMMER
- ▽ 14.7 ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)
- ▼ 17.7 ENCOUNTERED GROUNDWATER DEPTH (FT.) 24 HRS. AFTER DATE DRILLED
- BT BORING TERMINATED AT DEPTH INDICATED
- 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
- MC= PERCENT NATURAL MOISTURE CONTENT
- LL= LIQUID LIMIT
- PI= PLASTICITY INDEX
- SAND
- SAND AND SILT
- SAND AND CLAY
- CLAY

GENERAL NOTES

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

THE BORING LOCATIONS WERE ESTABLISHED IN THE FIELD BY MEASURING DISTANCES FROM EXISTING SITE FEATURES SHOWN ON PLANS PROVIDED BY HDR ENGINEERING, INC. BORING LOCATIONS WERE NOT SURVEYED. STATION AND OFFSET REFERENCE THE NORTH STREET CENTERLINE OF CONSTRUCTION.

ACCORDING TO THE SEPTEMBER 2017 POTENTIOMETRIC CONTOURS USGS MAP, "UPPER FLORIDAN AQUIFER POTENTIOMETRIC SURFACE", THE POTENTIOMETRIC SURFACE OF THE FLORIDA AQUIFER IN THE VICINITY OF THE SUBJECT INTERSECTION IS APPROXIMATELY +42 FEET NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +42 FEET NGVD.

SPLIT SPOON SAMPLER:
 INSIDE DIAMETER: 1.375 IN.
 OUTSIDE DIAMETER: 2.0 IN.
 AVERAGE HAMMER DROP: 30 IN.
 HAMMER WEIGHT: 140 LBS.

SECTIONS: 1 AND 12
 TOWNSHIP: 21 SOUTH
 RANGE: 29 EAST

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

MANUAL HAMMER (SAFETY)		
GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-4	VERY LOOSE
	4-10	LOOSE
	10-30	MEDIUM DENSE
	30-50	DENSE
	OVER 50	VERY DENSE
MANUAL HAMMER (SAFETY)		
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-2	VERY SOFT
	2-4	SOFT
	4-8	FIRM
	8-15	STIFF
	15-30	VERY STIFF
	OVER 30	HARD

FIGURE 6

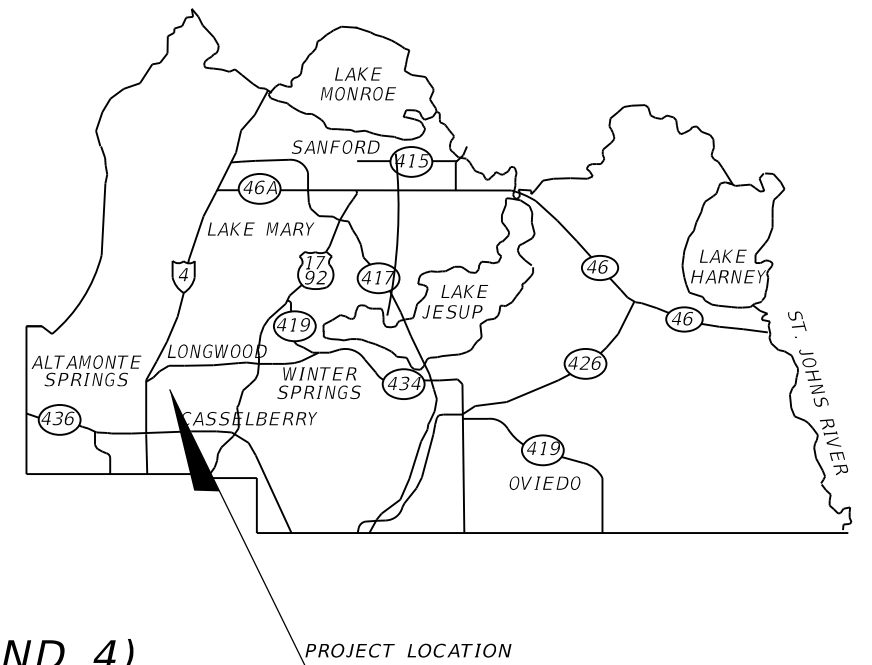
REVISIONS				VERNA E. WILLIFORD IV, P.E. P.E. LICENSE NUMBER 82275 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 LAKE BALDWIN LANE ORLANDO, FL. 32814	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1	ROAD	COUNTY CIP No.	RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	SPT BORING RESULTS FOR MAST ARM SIGNAL POLES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION								T-22

*SEMINOLE COUNTY
ENGINEERING DIVISION*

CONTRACT PLANS



**ROLLING HILLS AREA ROADWAYS PHASE 1
SEMINOLE COUNTY CIP No. 01907084 (DISTRICT 3 AND 4)
LANDSCAPE PLANS**



INDEX OF LANDSCAPE PLANS

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
LD-1	KEY SHEET
LD-2	LANDSCAPE NOTES
LD-3	TABULATION OF QUANTITIES AND PLANT SCHEDULE
LD-4	PROJECT LAYOUT
LD-5	TREE DISPOSITION PLAN
LD-6 TO LD-14	LANDSCAPE PLAN
LD-15 TO LD-17	LANDSCAPE DETAILS
LD-18 TO LD-28	HARDSCAPE PLAN
LD-29 TO LD-37	IRRIGATION PLAN
LD-38	IRRIGATION NOTES AND SCHEDULE
LD-39 TO LD-42	IRRIGATION SCHEDULE
LD-41 TO LD-43	IRRIGATION DETAILS

LANDSCAPE PLANS
 LANDSCAPE ARCHITECT OF RECORD:
MAGUED HANNA, R.L.A.
 LICENSE NO. LA6667254
 HDR ENGINEERING, INC.
 315 E. ROBINSON STREET, SUITE 400
 ORLANDO, FL 32801

COUNTY PROJECT MANAGER:
SAM MOUSSA, PE
 ENGINEERING DIVISION
 100 EAST 1st STREET
 SANFORD, FL 32771

FISCAL YEAR	SHEET NO.
22-23	LD-1

LANDSCAPE NOTES

1. FLAG ALL PLANTING LOCATIONS PRIOR TO INSTALLATION. ALL PLANTING LOCATIONS MUST BE APPROVED AND MAY BE ADJUSTED BY THE LANDSCAPE ARCHITECT.

2. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT AT THE GROWING SITE, NURSERY OR HANDLING AREA DESIGNATED FOR THE PROJECT SITE.

3. THE CONTRACTOR IS RESPONSIBLE FOR PLANT QUANTITY TAKE-OFFS AND TO PROVIDE ALL PLANT MATERIAL REQUIRED AS SHOWN ON LANDSCAPE PLANS.

4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL FACILITIES. LANDSCAPE MATERIAL SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH ANY UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDERDRAINS, DITCH BLOCK, STORMWATER MANAGEMENT FACILITIES, DRAINAGE DISCHARGE PATHS, TRAFFIC SIGNAGE, ITS CAMERAS, LIGHTING AND THEIR APPURTENANCES. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY. ANY COSTS TO REMOVE AND / OR REPAIR WORK PLACED THAT HAS NOT BEEN APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE AT THE CONTRACTOR'S EXPENSE.

- IN CASE OF ANY DAMAGES THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND TEMPORARILY FIX THE DAMAGE IN LESS THAN FOUR HOURS OF OCCURRENCE AND FOLLOW WITH A PERMANENT FIX USING AN APPROVED METHOD.

5. PRE-EMERGENT GRANULAR HERBICIDE SHALL BE APPLIED TO ALL INDIVIDUAL MULCH RINGS. THE HERBICIDE ACTIVE INGREDIENTS SHALL BE SUITABLE FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. THE GRANULAR HERBICIDE SHALL BE APPLIED BY HAND AFTER PLANTING AND BEFORE PLACING MULCH. THE HERBICIDE SHALL BE APPLIED AT A RATE RECOMMENDED BY THE MANUFACTURER.

6. TREAT THE ROOT BALL OF ALL TREES IN THE UPPER 8-10 INCHES OF THE PLANTING HOLE WITH THE MANUFACTURER'S RECOMMENDED AMOUNT OF MYCORRHIZAL FUNGAL INOCULANTS, TO INCLUDE AT A MINIMUM THE FOLLOWING :

- ENDOMYCORRHIZAL FUNGUS.
- ECTOMYCORRHIZAL FUNGUS.
- FULVIC ACID.
- TRICHODERMA.
- PHOSPHATE SOLUBILIZATING, NITROGEN FIXING AND GROWTH PROMOTING BACTERIA.
- HUMIC ACID DERIVED FROM LEONARDITE.
- SEA KELP EXTRACT (ASCOPHYLLUM NODOSUM).
- YUCCA PLANT EXTRACT (YUCCA SCHIDIGERA).
- WATER HOLDING POLYMER (CROSS LINKED ACRYLAMIDE AND POTASSIUM ACRYLATE).
- PARTICLE SIZE : 0.8 MM TO 2.0 MM .
- PERCENT SOLUBLE : LESS THAN 0.05% .
- ABSORPTION RATE : 300 - 400 TIMES IN DISTILLED WATER.

SUBMIT SAMPLE OF MYCORRHIZAL INOCULANT FOR ACCEPTANCE BY THE LANDSCAPE ARCHITECT.

7. SEE PLANS FOR LANDSCAPE SETBACKS FROM UTILITIES. WHEN NO SETBACK IS NOTED THE FOLLOWING SHALL APPLY:

FENCE	6'
DRAINAGE STRUCTURES	5'
OVERHEAD UTILITIES	10'
UNDERGROUND UTILITIES	5'
BACK OF GUARDRAIL	6'

8. TEST AND AMEND SOIL AS NEEDED TO PROVIDE OPTIMUM MEDIUM FOR PLANT GROWTH. SOIL AMENDMENTS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW PRIOR PLANTING.

9. THE CONTRACTOR SHOULD SUBMIT A STORM WATER PREVENTION POLLUTION PLAN (SWPP) TO THE COUNTY FOR APPROVAL PRIOR TO ANY CONSTRUCTION.

10. RE-SOD ALL SLOPE AREAS AROUND NEWLY PLANTED TREES AND DISTURBED AREAS WHERE EARTHWORK IS SPECIFIED TO PRESERVE TREE WATERING RINGS.

11. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE INDICATED ON THE TREE DISPOSITION CHART (LD-5).

12. UNIFORMLY APPLY A LAYER OF MIN. 3" DEPTH OF MULCH MATERIAL CONSISTING OF MINI PINE BARK NUGGET MULCH.

13. ALL LANDSCAPE MATERIAL SHALL BE A MINIMUM OF FLORIDA #1 ACCORDING TO THE CURRENT EDITION OF THE FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS


14. ALL PLANT MATERIAL SHALL RECEIVE FERTILIZER (AGRIFORM TABLETS) AT THE TIME OF PLANTING PER MANUFACTURERS RECOMMENDATION

15. ALL PLANT MATERIAL BACKFILL SOIL SHALL BE A 60/40 SOIL MIXTURE

16. ALL DEBRIS SHALL BE REMOVED FROM PLANTING BEDS PRIOR TO PLANTING. THIS INCLUDES BUT IS NOT LIMITED TO ROCK, GRAVEL, TRASH, WOOD, ETC.

17. COORDINATE WITH THE CITY OF LONGWOOD TO DETERMINE ANY NECESSARY TREE RELOCATION/IRRIGATION ADJUSTMENTS BEHIND THE MAST ARM ON SR 434/RAYMOND AVENUE SOUTHWEST CORNER
CONTACT: ERIC NAGOWSKI (ENAGOWSKI@LONGWOODFL.ORG)


18. REGRADE AND/OR REPLACE ANY SOD THAT IS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT WITH THE SAME SOD TYPE

REVISIONS				 MAGUED HANNA, R.L.A. LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		LANDSCAPE NOTES	SHEET NO. LD-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

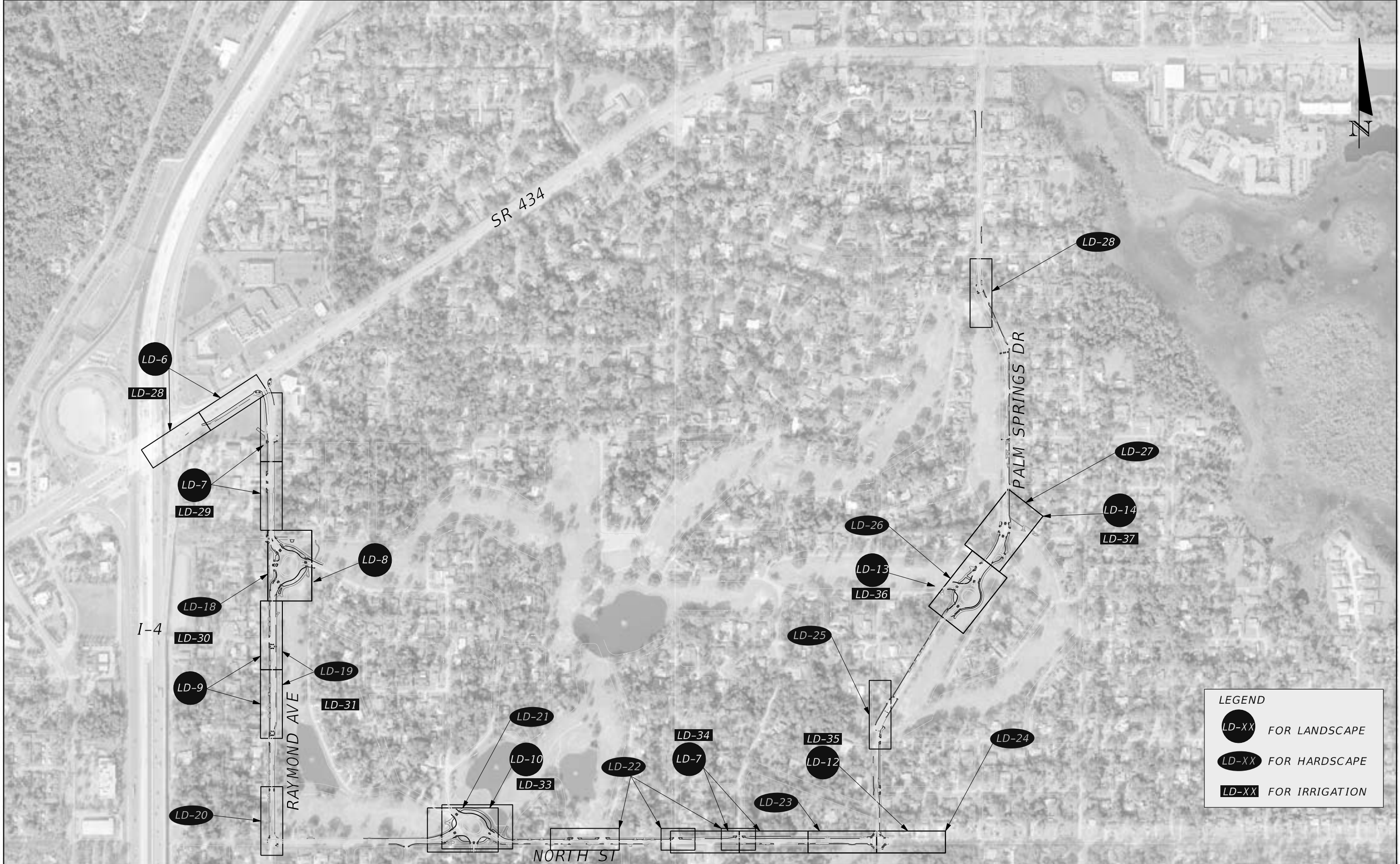
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

SYM	DESCRIPTION	MAX MAINTAINED SIZE	REMARKS	UNIT	SHEET NUMBERS												GRAND TOTAL			
					LD-6		LD-7		LD-8		LD-9		LD-10		LD-11		LD-12		PLAN	FINAL
					PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
	<i>Small Plants</i>																			
AG	<i>Arachis glabrata - Perennial Peanut, 12" OC</i>			EA			2,524		8,499		2,856		5,514		2,502		792	22,687		
HP	<i>Hamelia patens - Firebush, 7 Gal, 48" OC</i>	18"		EA									70					70		
PN	<i>Paspalum notatum - Bahiagrass</i>			SY			6						173		65			244		
TA	<i>Trachelospermum asiaticum - Dwarf Confederate Jasmine, 3 Gal, 24" OC</i>	18"		EA			467		846		682		494					2,489		
TV	<i>Tulbaghia violacea - Society Garlic, 1 Gal, 18" OC</i>	18"		EA					2,284				911					3,195		
VO	<i>Viburnum odoratissimum - Sweet Viburnum, 24" OC</i>	18"		EA					1,230				1,544					2,774		
	<i>Large Plants</i>																			
BN	<i>Bismarckia nobilis - Bismarck Palm, 12' overall</i>			EA																
LN	<i>Livistona nitida - Nitida Palm, 12' CT</i>			EA					6				9					15		
MG	<i>Magnolia grandiflora - Southern Magnolia, 12'-14'H, 6' SPRD, FTG</i>			EA			7		20				4		9		2	42		
QV	<i>Quercus virginiana - Live Oak, 16'H, 8' SPRD, Container Grown, 3" Cal.</i>			EA					11		11		11					33		

SYM	DESCRIPTION	MAX MAINTAINED SIZE	REMARKS	UNIT	SHEET NUMBERS												GRAND TOTAL	
					LD-13		LD-14										PLAN	FINAL
					PLAN	FINAL	PLAN	FINAL										
	<i>Small Plants</i>																	
AG	<i>Arachis glabrata - Perennial Peanut, 12" OC</i>			EA	3,977		2,912											6,889
HP	<i>Hamelia patens - Firebush, 7 Gal, 48" OC</i>	18"		EA														
PN	<i>Paspalum notatum - Bahiagrass</i>			SY														
TA	<i>Trachelospermum asiaticum - Dwarf Confederate Jasmine, 3 Gal, 24" OC</i>	18"		EA	2,623		762											3,385
TV	<i>Tulbaghia violacea - Society Garlic, 1 Gal, 18" OC</i>	18"		EA	1,360		476											1,836
VO	<i>Viburnum odoratissimum - Sweet Viburnum, 24" OC</i>	18"		EA	259													259
	<i>Large Plants</i>																	
BN	<i>Bismarckia nobilis - Bismarck Palm, 12' overall</i>			EA	3		3											6
LN	<i>Livistona nitida - Nitida Palm, 12' CT</i>			EA	4													4
MG	<i>Magnolia grandiflora - Southern Magnolia, 12'-14'H, 6' SPRD, FTG</i>			EA	3													3
QV	<i>Quercus virginiana - Live Oak, 16'H, 8' SPRD, Container Grown, 3" Cal.</i>			EA	15													15

<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					MAGUED HANNA, R.L.A. LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 		SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No. RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084		TABULATION OF QUANTITIES & PLANT SCHEDULE		SHEET NO. LD-3
REVISIONS																						
DATE	DESCRIPTION	DATE	DESCRIPTION																			

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LEGEND	
	LD-XX FOR LANDSCAPE
	LD-XX FOR HARDSCAPE
	LD-XX FOR IRRIGATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAGUED HANNA, R.L.A.
 LICENSE NO. LA6667254
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084


SHEET NO.
LD-4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

TREE DISPOSITION CHART

VERIFICATION DATE: 12-20-2023

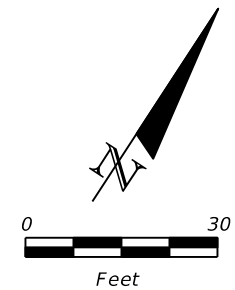
TREE NO.	COMMON NAME	NATIVE	DBH (IN.) FOR TREES/ CTH (FT.) FOR PALMS	DISPOSITION	STATION	OFFSET	NOTES/CONDITION
1	PINE TREE	Y	18	REMOVE	10015+96.23		
2	PINE TREE	Y	18	REMOVE	10016+58.06		
3	PINE TREE	Y	18	REMOVE	10017+05.74		
4	PINE TREE	Y	18	REMOVE	10018+06.78		
5	PINE TREE	Y	18	REMOVE	10018+08.57		
6	OAK TREE	Y	12	REMOVE	10020+13.23		
7	PINE TREE	Y	18	REMOVE	10011+56.31		
8	OAK TREE	Y	20	REMOVE	10011+66.91		
9	WAX MYRTLE	Y	3	REMOVE	801+83.09		
10	WAX MYRTLE	Y	3	REMOVE	801+71.93		
11	OAK TREE	Y	20	REMOVE	1100+32.37		
12	OAK TREE	Y	12	REMOVE	1100+39.35		
13	GUM TREE	Y	18	REMOVE	1100+42.90		
14	ELM TREE	Y	10	REMOVE	1100+31.93		
15	OAK TREE	Y	10	REMOVE	20018+04.77		
16	SABAL PALM	Y	38	REMOVE	40008+74.52		
17	SABAL PALM	Y	30	REMOVE	40009+65.87		
18	SABAL PALM	Y	45	REMOVE	40010+13.36		
19	GUM TREE	Y	15	REMOVE	3302+16.21		
20	PINE TREE	Y	27	REMOVE	30027+96.24		
21	OAK TREE	Y	57	REMOVE	10018+17.32		
22	OAK TREE	Y	36	REMOVE	10018+18.88		
23	OAK TREE	Y	17	REMOVE	10018+36.36		

REVISIONS				 MAGUED HANNA, R.L.A. LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		TREE DISPOSITION SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		LD-5

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10+00 11+00 12+00 13+00 14+00

STATE ROAD 434

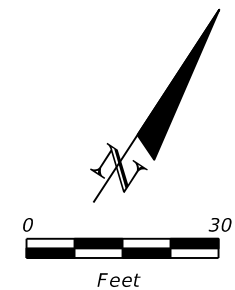


NO LANDSCAPE THIS SHEET.

MATCHLINE (SEE BELOW)

15+00 16+00 17+00 18+00

STATE ROAD 434



EXISTING TREES BEHIND MAST ARM TO BE RELOCATED
(COORDINATION WITH THE CITY OF LONGWOOD)

NO NEW LANDSCAPE THIS SHEET.

MATCHLINE (SEE ABOVE)

10030+00

MATCHLINE LD-7

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

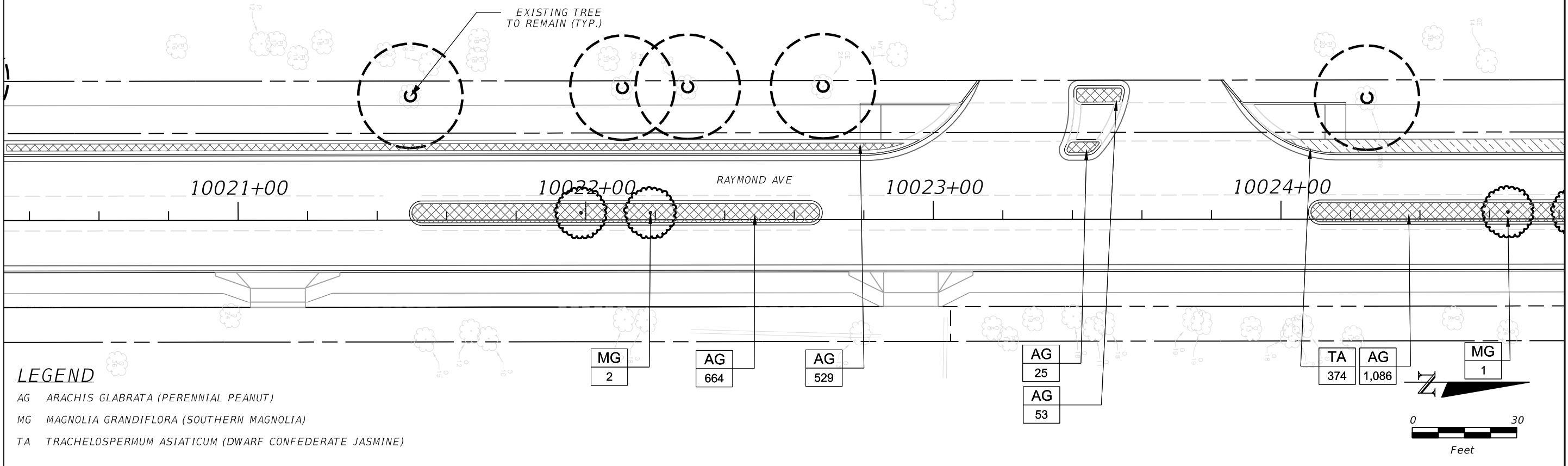
LANDSCAPE PLAN
 STATE ROAD 434

SHEET NO.
 LD-6

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MATCHLINE LD-8

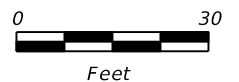
MATCHLINE (SEE BELOW)



LEGEND

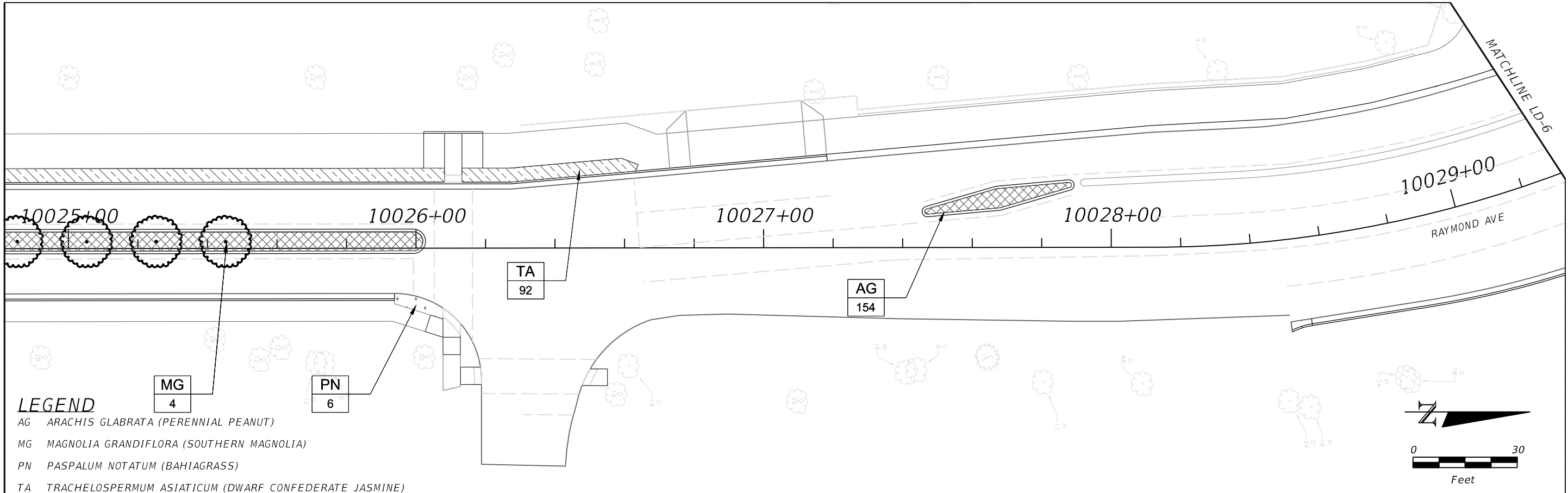
- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
- MG MAGNOLIA GRANDIFLORA (SOUTHERN MAGNOLIA)
- TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)

MG 2	AG 664	AG 529	AG 25	AG 53	TA 374	AG 1,086	MG 1
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MATCHLINE (SEE ABOVE)

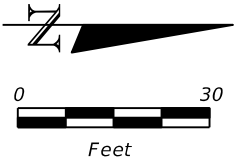
MATCHLINE LD-6



LEGEND

- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
- MG MAGNOLIA GRANDIFLORA (SOUTHERN MAGNOLIA)
- PN PASPALUM NOTATUM (BAHIAGRASS)
- TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)

MG 4	PN 6
---------	---------



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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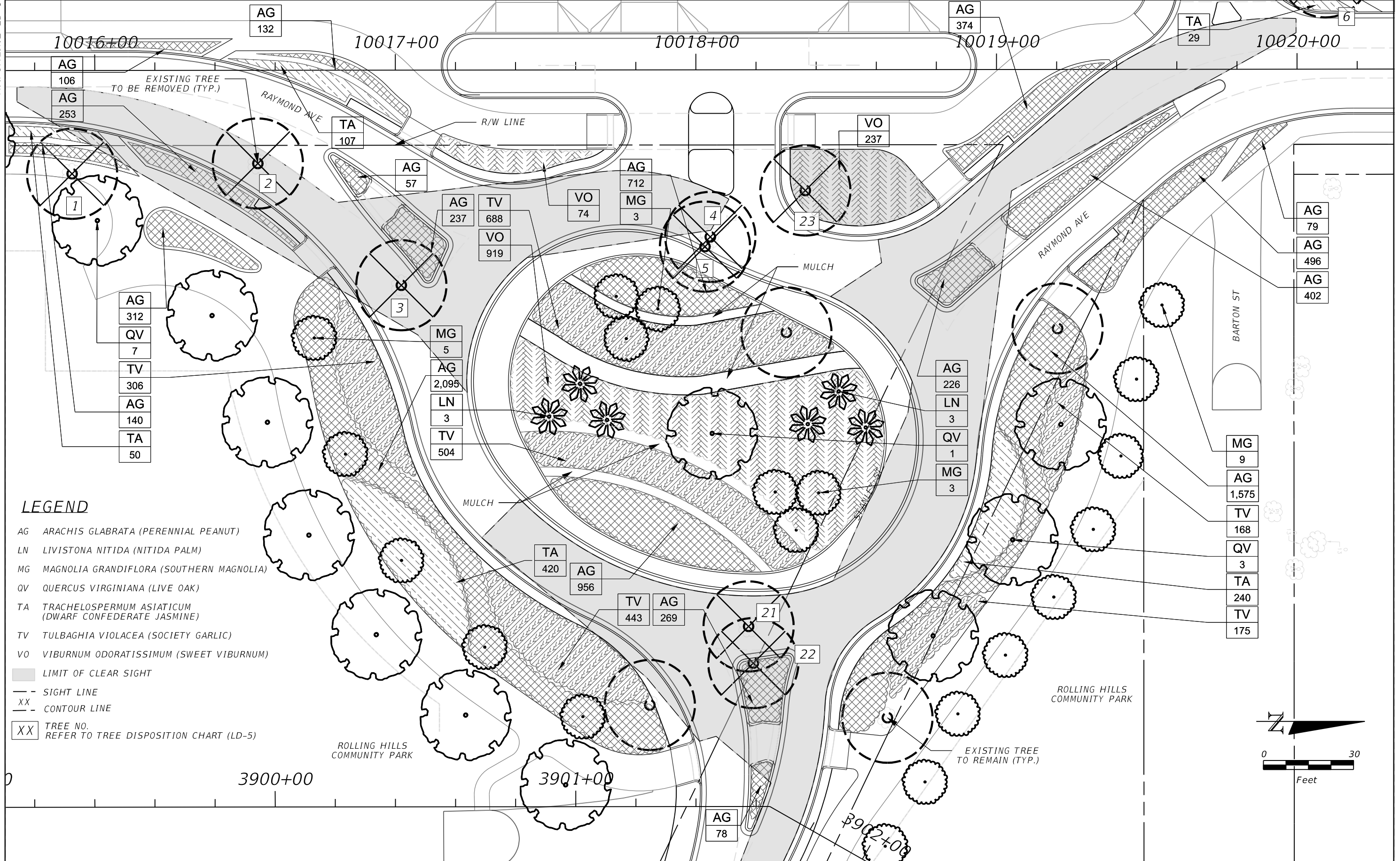
LANDSCAPE PLAN
 RAYMOND AVENUE (1)

SHEET NO.
 LD-7

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MATCHLINE LD-9

MATCHLINE LD-7



LEGEND

- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
- LN LIVISTONA NITIDA (NITIDA PALM)
- MG MAGNOLIA GRANDIFLORA (SOUTHERN MAGNOLIA)
- QV QUERCUS VIRGINIANA (LIVE OAK)
- TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)
- TV TULBAGHIA VIOLACEA (SOCIETY GARLIC)
- VO VIBURNUM ODORATISSIMUM (SWEET VIBURNUM)
- ▨ LIMIT OF CLEAR SIGHT
- SIGHT LINE
- XX CONTOUR LINE
- XX TREE NO. REFER TO TREE DISPOSITION CHART (LD-5)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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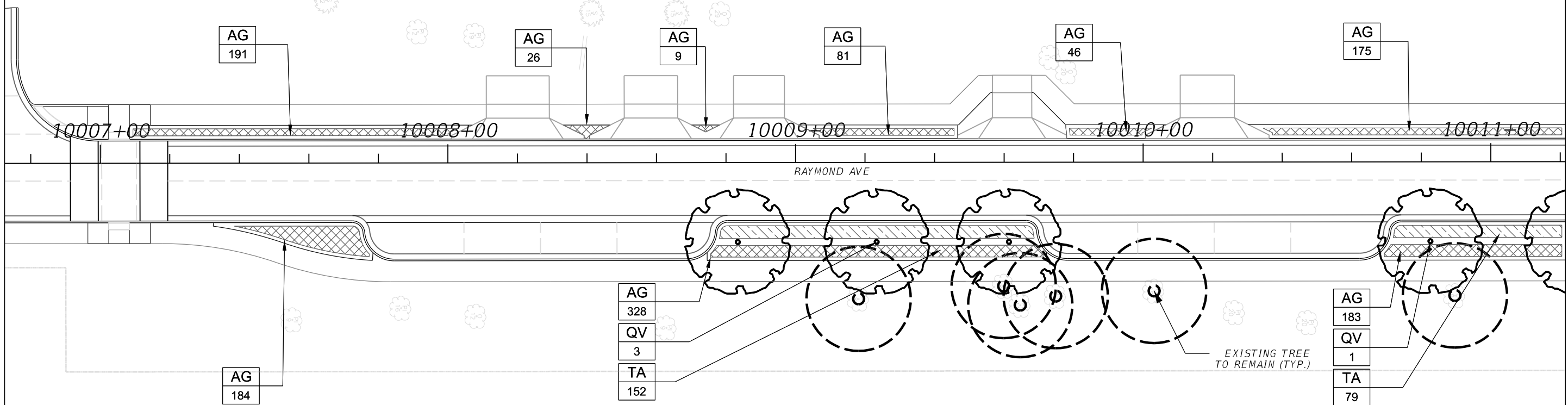
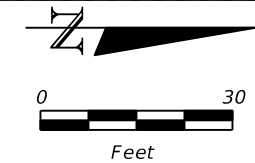
LANDSCAPE PLAN
 RAYMOND AVENUE (2)

SHEET NO.
 LD-8

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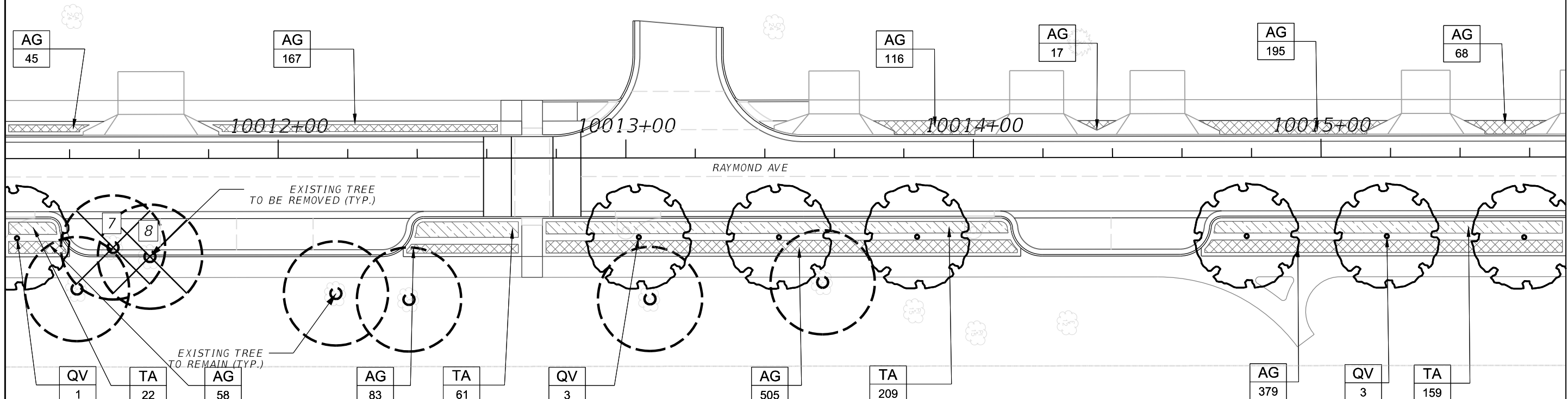
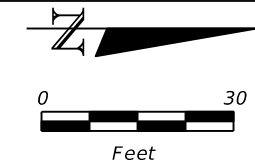
LEGEND

- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
- TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)
- QV QUERCUS VIRGINIANA (LIVE OAK)



LEGEND

- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
- TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)
- QV QUERCUS VIRGINIANA (LIVE OAK)



MATCHLINE (SEE ABOVE)

MATCHLINE LD-8

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAGUED HANNA, R.L.A. LICENSE NO. LA6667254
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
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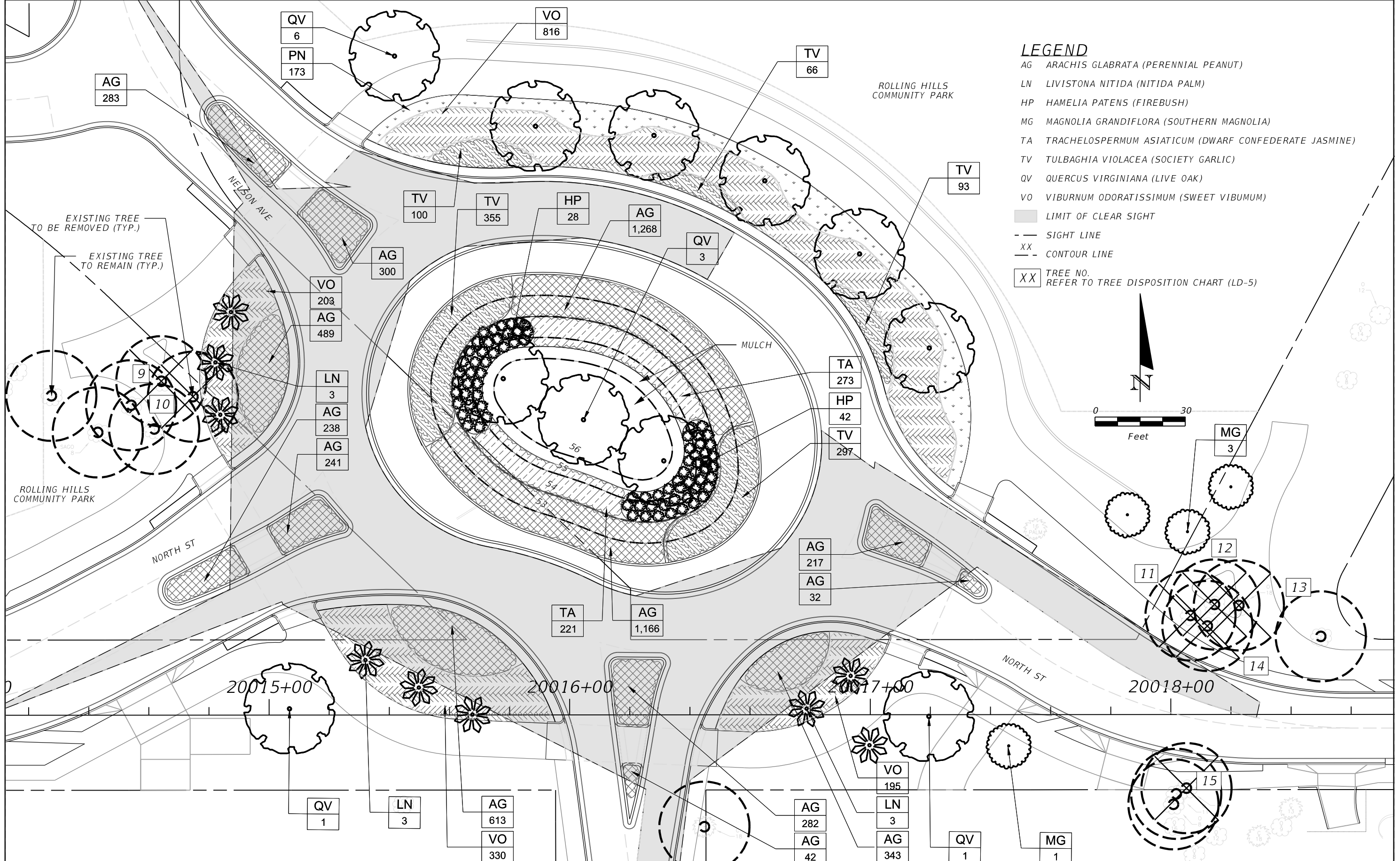
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
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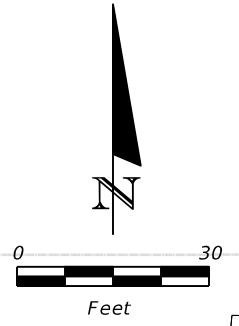
LANDSCAPE PLAN
 RAYMOND AVENUE (3)

SHEET NO.
 LD-9

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- LEGEND**
- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
 - LN LIVISTONA NITIDA (NITIDA PALM)
 - HP HAMELIA PATENS (FIREBUSH)
 - MG MAGNOLIA GRANDIFLORA (SOUTHERN MAGNOLIA)
 - TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)
 - TV TULBAGHIA VIOLACEA (SOCIETY GARLIC)
 - QV QUERCUS VIRGINIANA (LIVE OAK)
 - VO VIBURNUM ODORATISSIMUM (SWEET VIBURNUM)
 - ▨ LIMIT OF CLEAR SIGHT
 - - SIGHT LINE
 - - - CONTOUR LINE
 - XX TREE NO. REFER TO TREE DISPOSITION CHART (LD-5)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAGUED HANNA, R.L.A. LICENSE NO. LA6667254
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



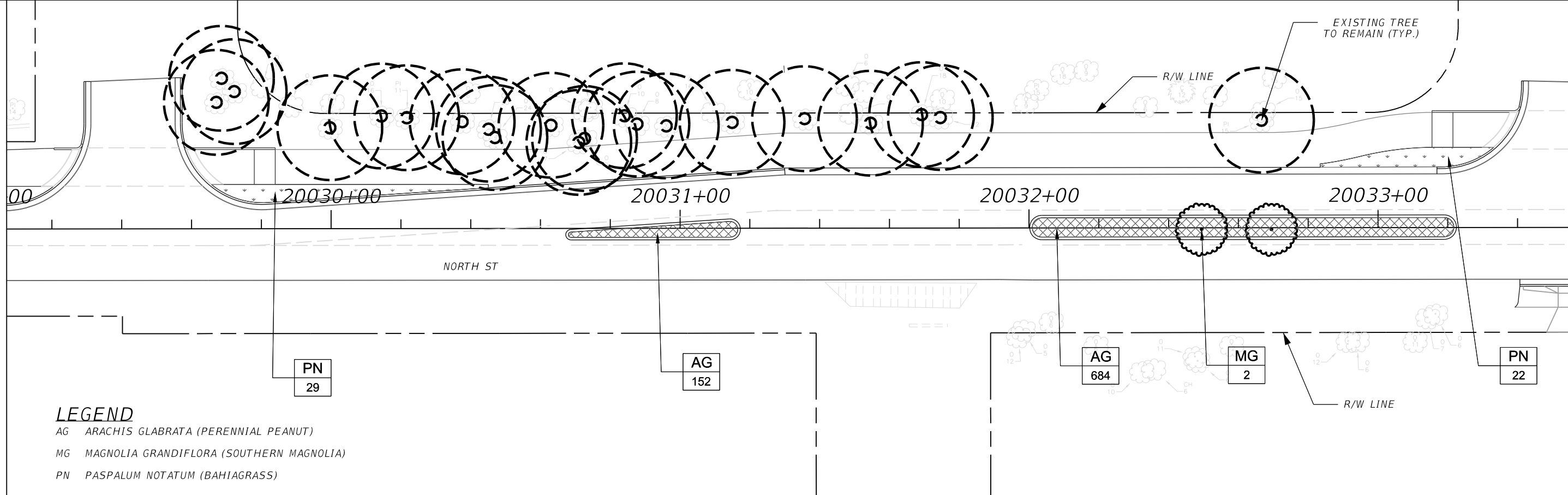
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

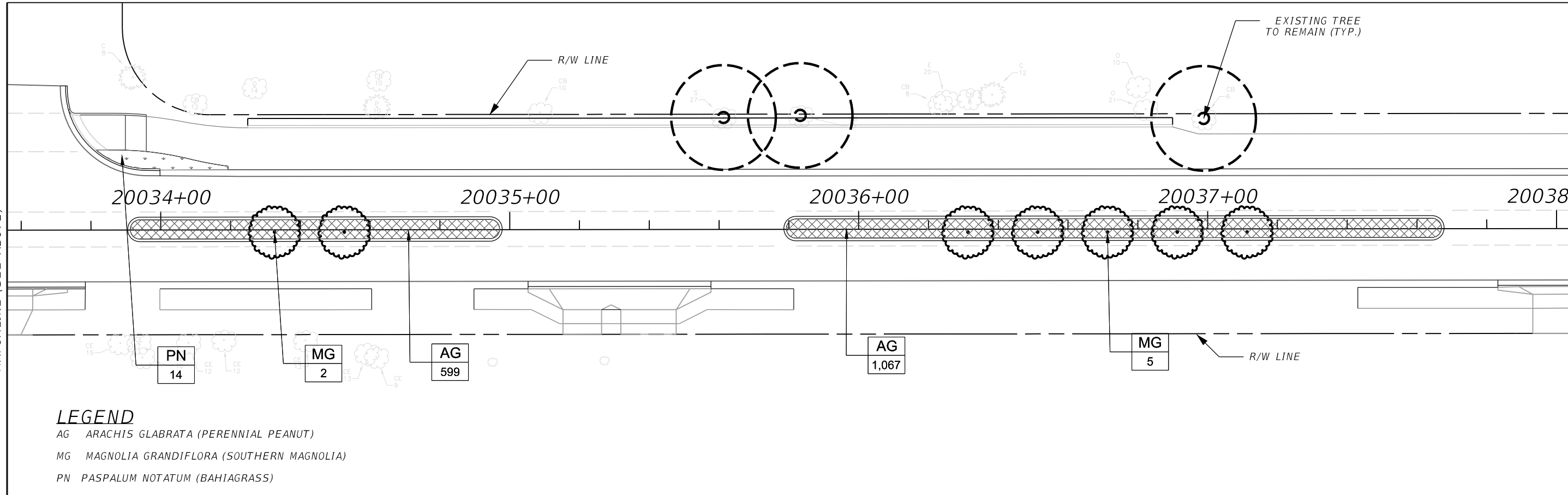
LANDSCAPE PLAN
 NORTH STREET (1)

SHEET NO.
 LD-10

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MATCHLINE (SEE BELOW)



MATCHLINE (SEE ABOVE)

MATCHLINE LD-12

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
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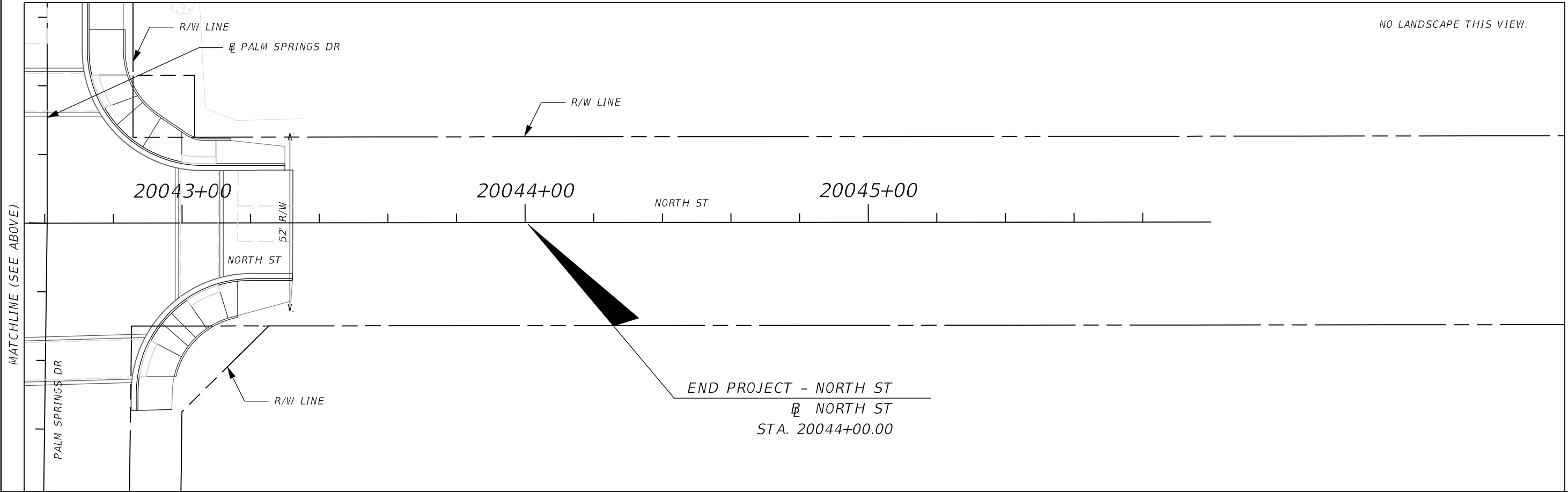
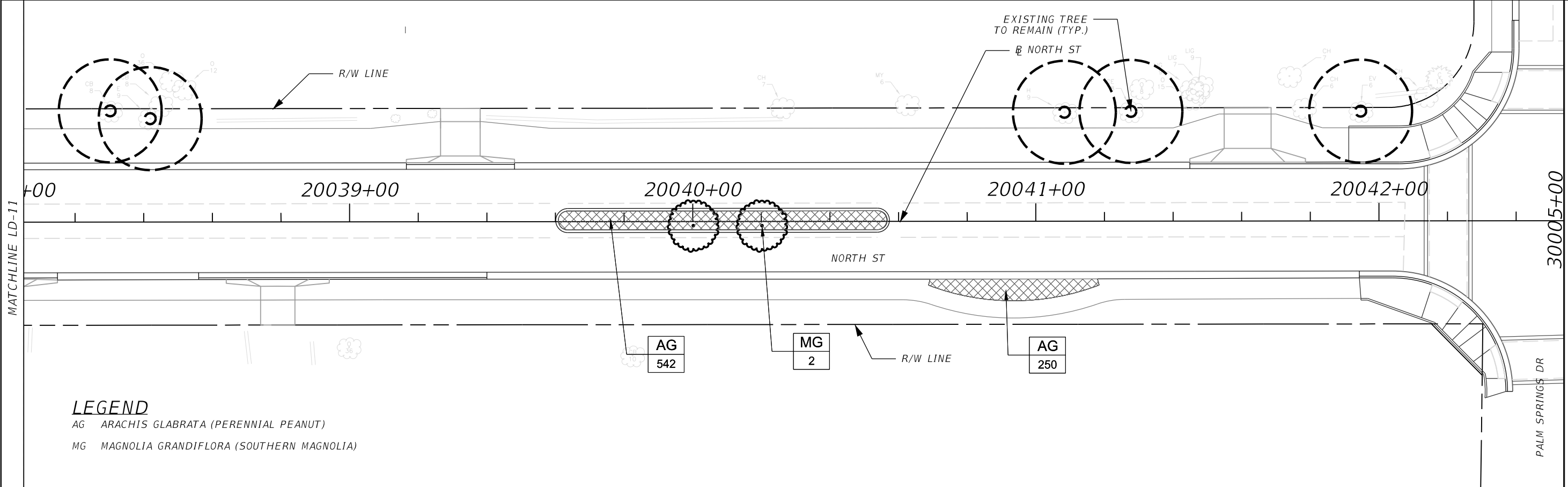
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

LANDSCAPE PLAN
 NORTH STREET (2)

SHEET NO.
 LD-11

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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

LANDSCAPE PLAN
 NORTH STREET (3)

SHEET NO.
 LD-12

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LEGEND

- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
- BN BISMARCKIA NOBILIS (BISMARCK PALM)2
- LN LIVISTONA NITIDA (NITIDA PALM)
- MG MAGNOLIA GRANDIFLORA (SOUTHERN MAGNOLIA)
- QV QUERCUS VIRGINIANA (LIVE OAK)
- TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)
- TV TULBAGHIA VIOLACEA (SOCIETY GARLIC)
- VO VIBURNUM ODORATISSIMUM (SWEET VIBURNUM)

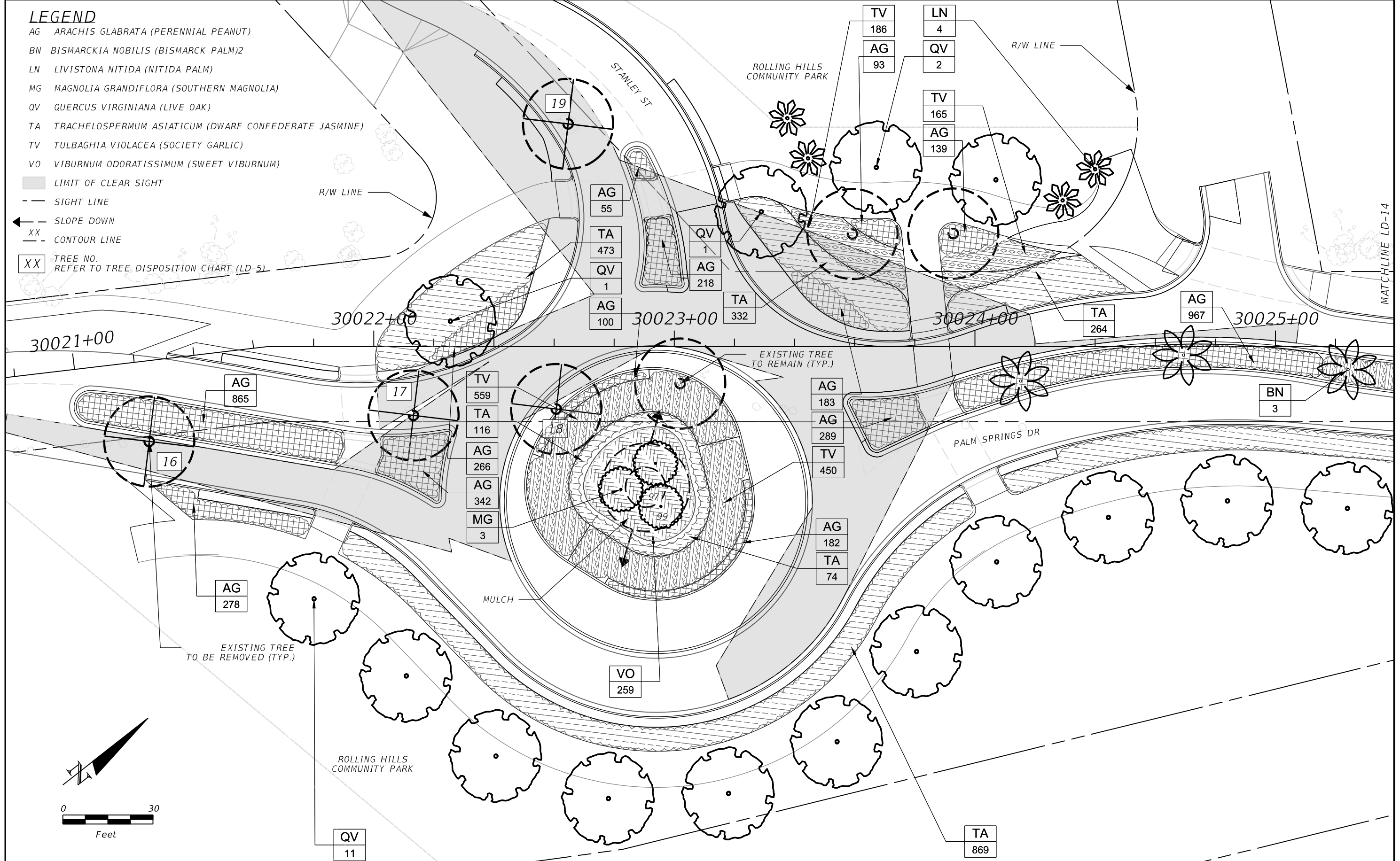
LIMIT OF CLEAR SIGHT

SIGHT LINE

SLOPE DOWN

CONTOUR LINE

TREE NO. REFER TO TREE DISPOSITION CHART (LD-5)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAGUED HANNA, R.L.A. LICENSE NO. LA6667254
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SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH ST., PALM SPRINGS DR. 01907084

LANDSCAPE PLAN
 PALM SPRINGS DRIVE (1)

SHEET NO.
 LD-13

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LEGEND

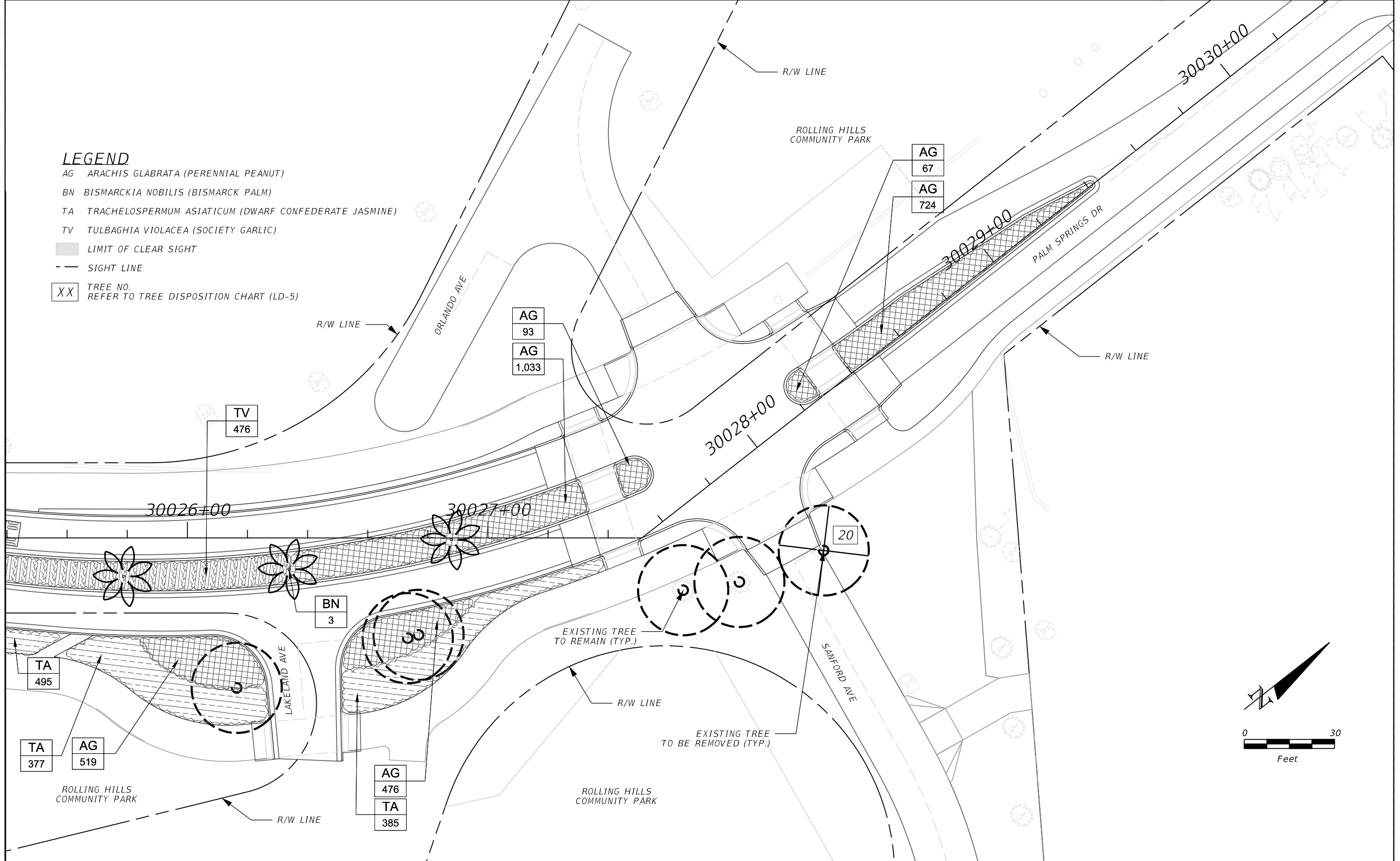
- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
- BN BISMARCKIA NOBILIS (BISMARCK PALM)
- TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)
- TV TULBAGHIA VIOLACEA (SOCIETY GARLIC)

■ LIMIT OF CLEAR SIGHT

- - - SIGHT LINE

XX TREE NO. REFER TO TREE DISPOSITION CHART (LD-5)

MATCHLINE LD-13



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
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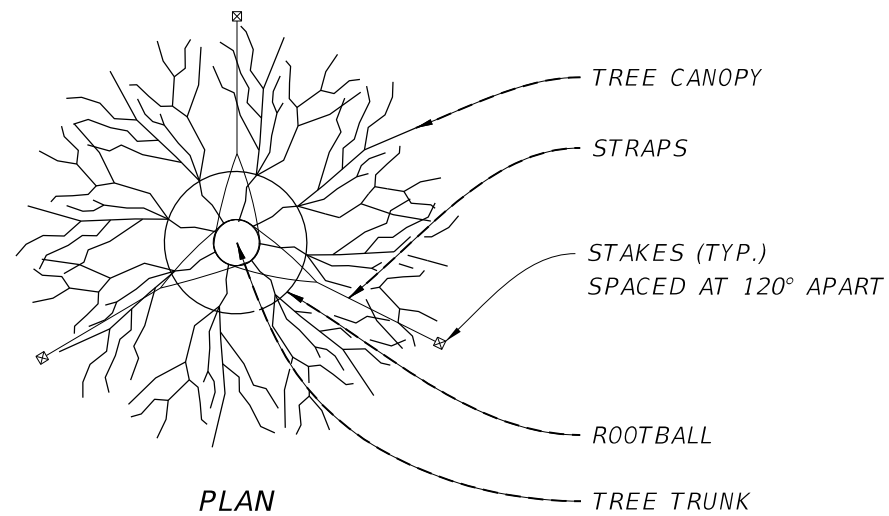
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

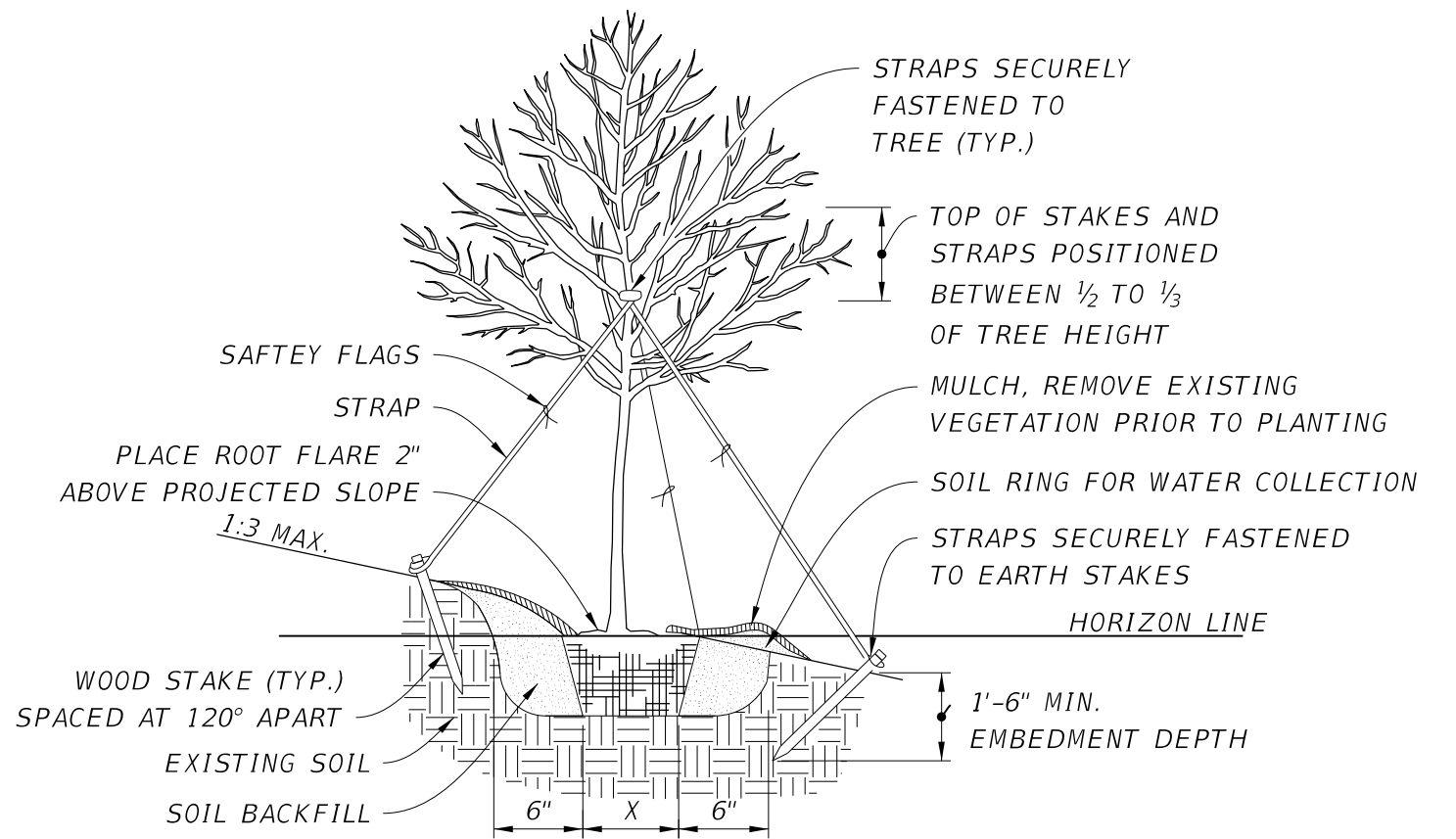
LANDSCAPE PLAN
 PALM SPRINGS DRIVE (2)

SHEET NO.
 LD-14

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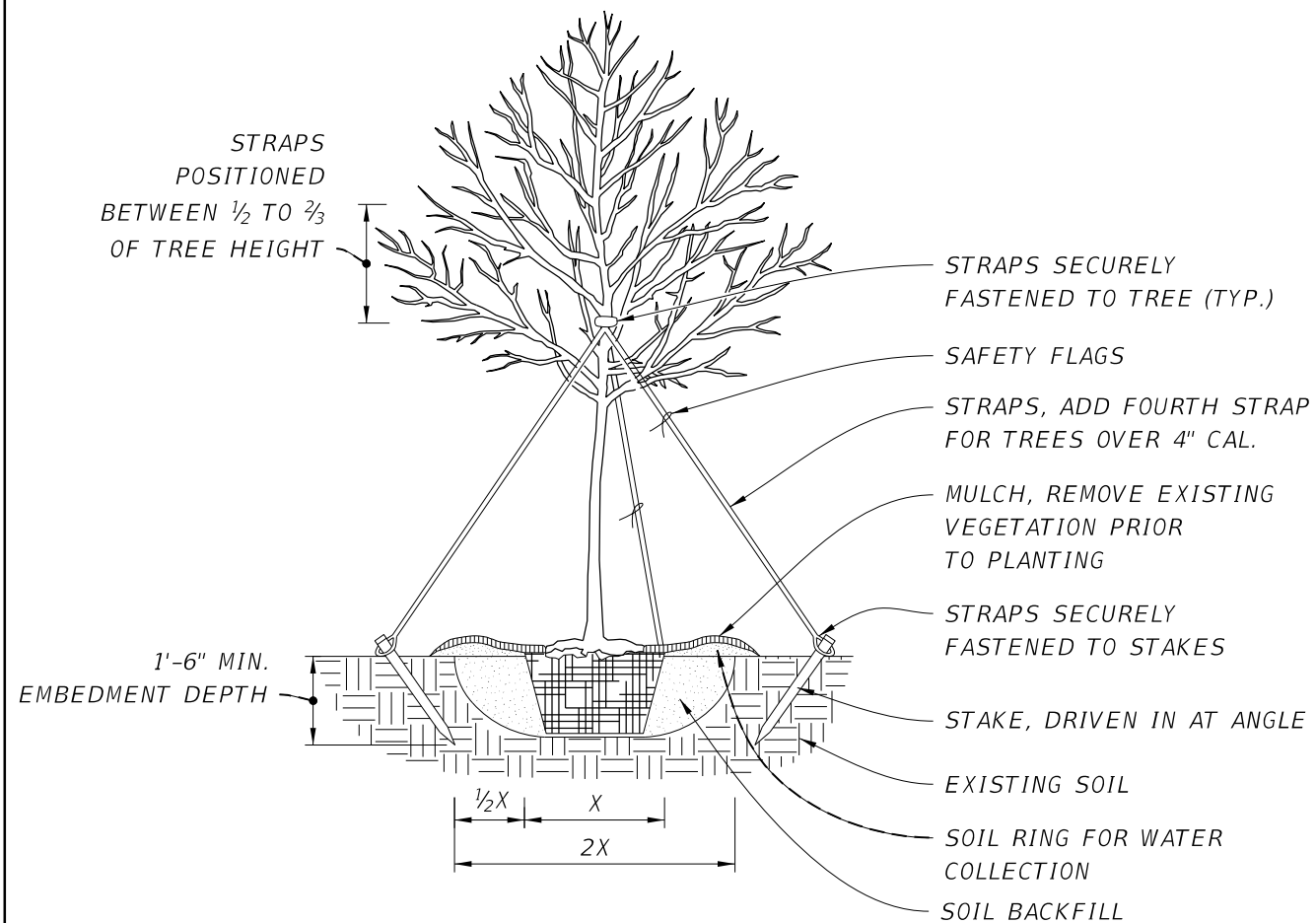


PLAN



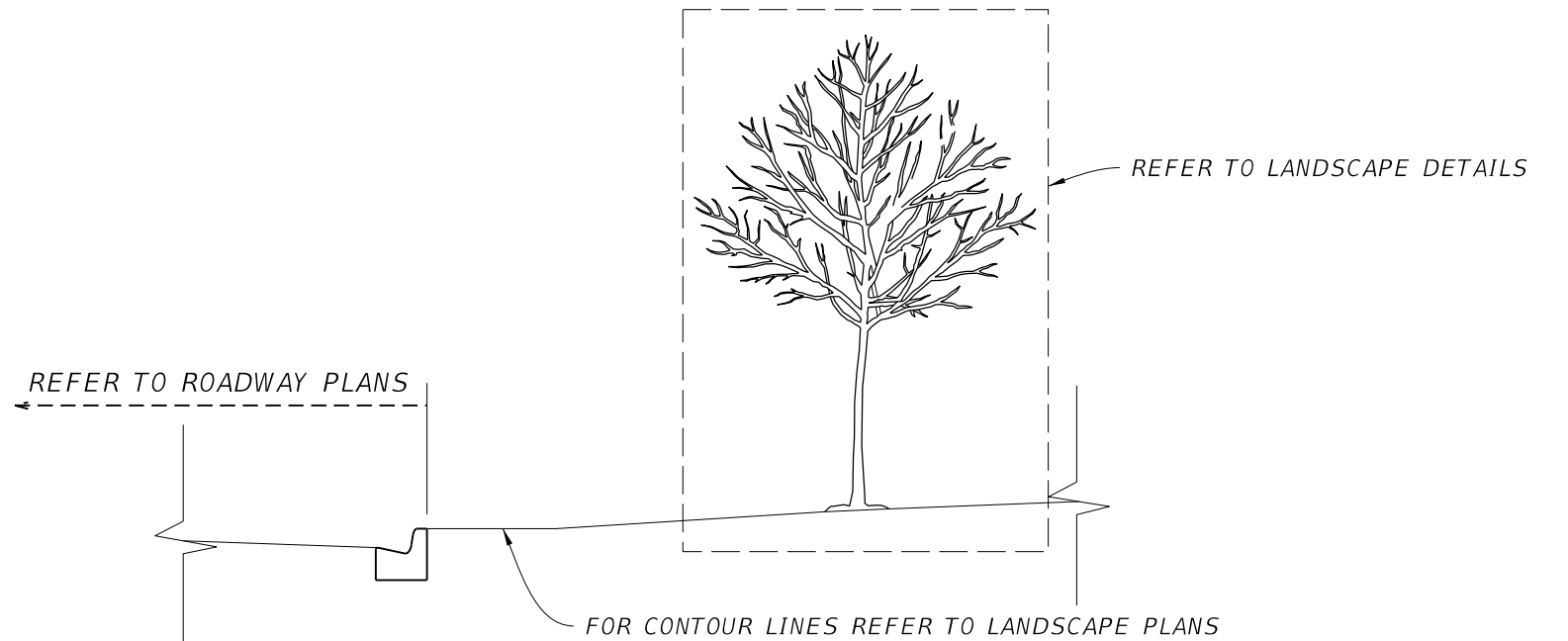
ELEVATION

2 1/2" TO 6" CALIPER TREE PLANTING ON SLOPE



ELEVATION

2 1/2" TO 6" CALIPER TREE PLANTING



ROUNDBABOUT GRADING AND PLANTING

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SEMINOLE COUNTY ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

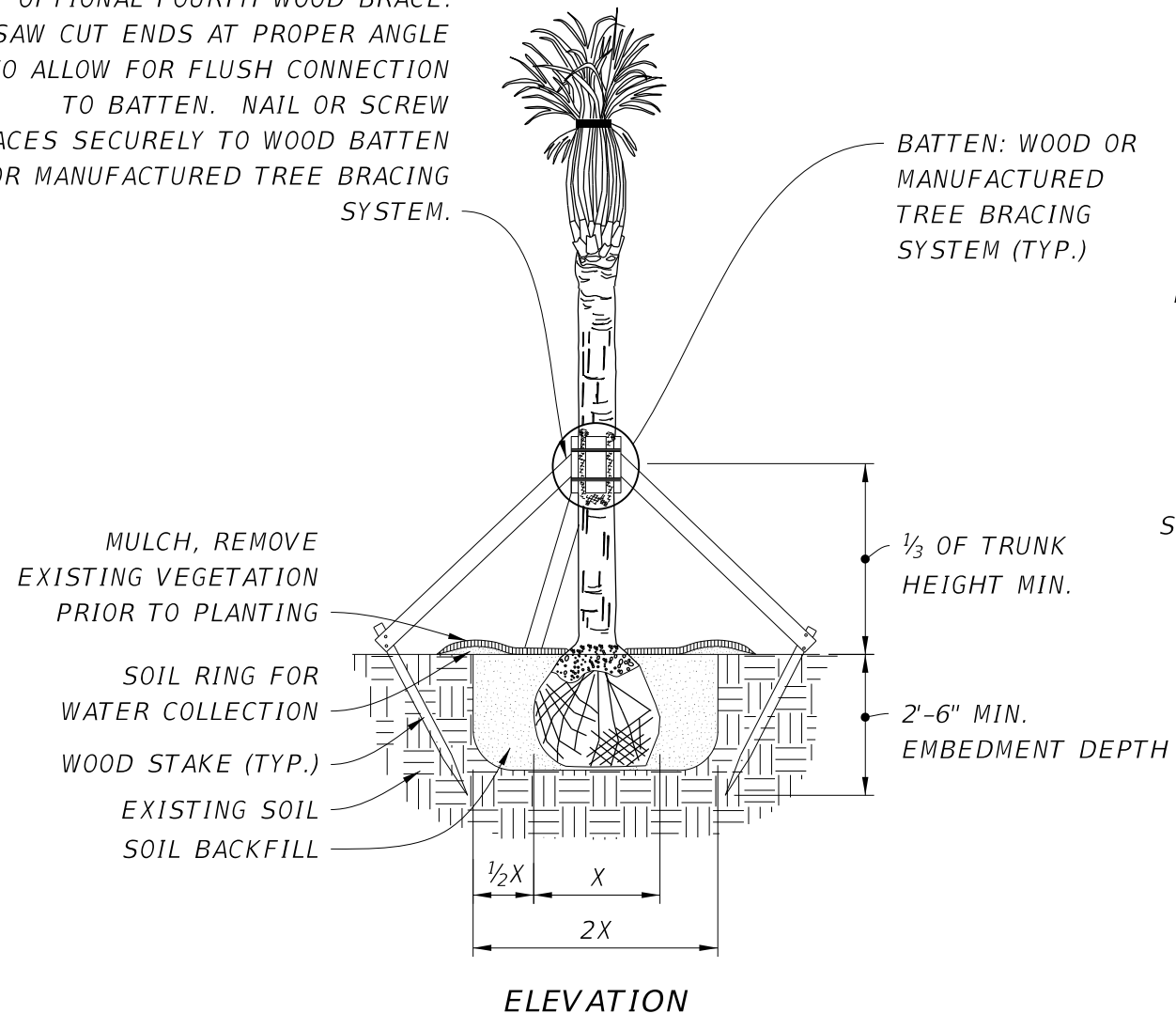
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

LANDSCAPE DETAILS

SHEET NO. LD-15

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MINIMUM OF THREE WOOD BRACES
 SPACED AT 120° APART WITH
 OPTIONAL FOURTH WOOD BRACE.
 SAW CUT ENDS AT PROPER ANGLE
 TO ALLOW FOR FLUSH CONNECTION
 TO BATTEN. NAIL OR SCREW
 BRACES SECURELY TO WOOD BATTEN
 OR MANUFACTURED TREE BRACING
 SYSTEM.

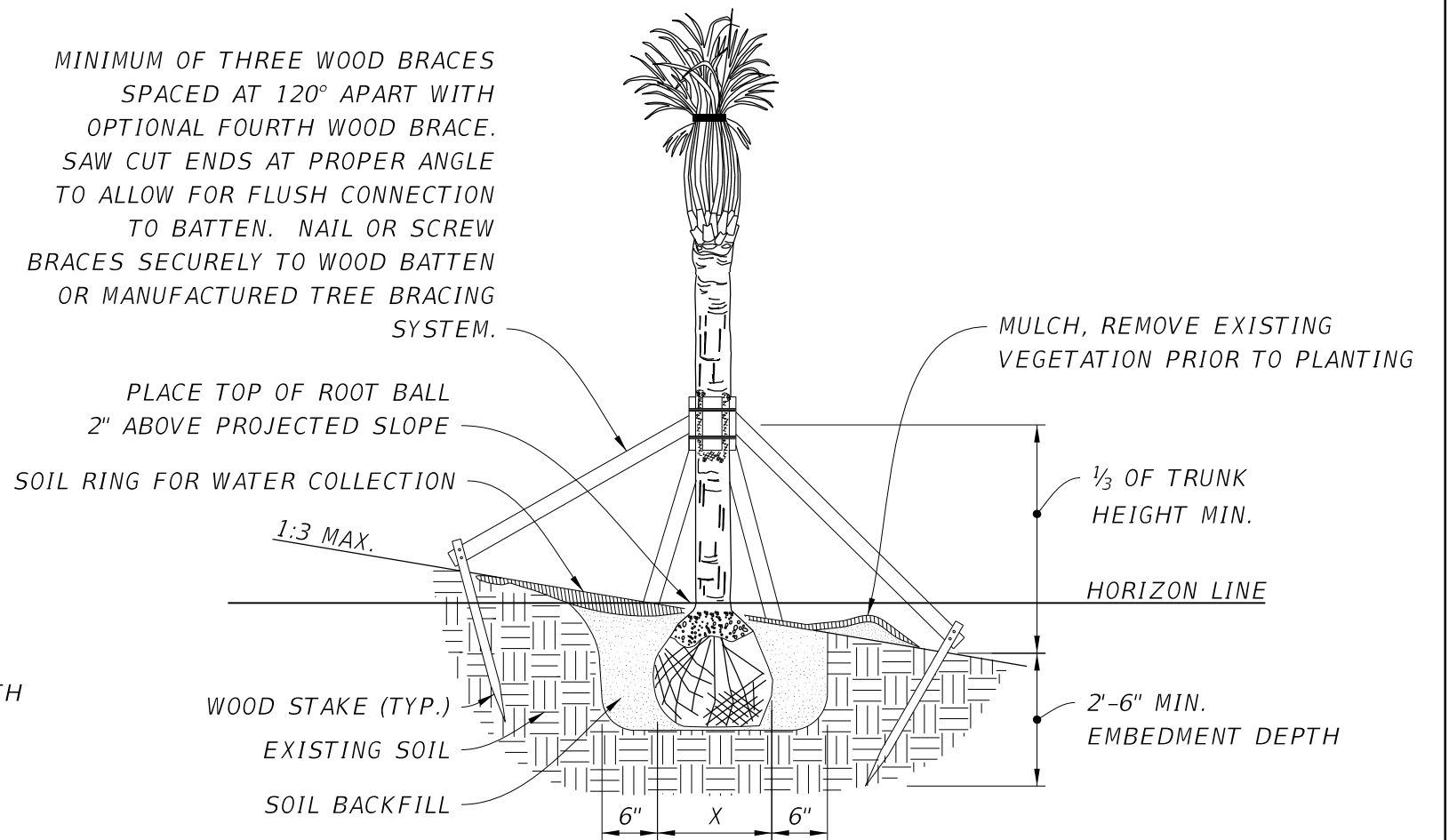


ELEVATION

NOTE: MAY BE USED ON LARGE CALIPER CANOPY TREES, ADJUST BANDING EVERY
 6 MONTHS OR AS NEEDED (FOR FAST GROWING SPECIES) TO PREVENT GIRDLING.

PALM PLANTING

MINIMUM OF THREE WOOD BRACES
 SPACED AT 120° APART WITH
 OPTIONAL FOURTH WOOD BRACE.
 SAW CUT ENDS AT PROPER ANGLE
 TO ALLOW FOR FLUSH CONNECTION
 TO BATTEN. NAIL OR SCREW
 BRACES SECURELY TO WOOD BATTEN
 OR MANUFACTURED TREE BRACING
 SYSTEM.



ELEVATION

NOTE: MAY BE USED ON LARGE CALIPER CANOPY TREES PENDING SLOPE AND ROOTBALL
 WIDTH, ADJUST BANDING EVERY 6 MONTHS OR AS NEEDED (FOR FAST GROWING
 SPECIES) TO PREVENT GIRDLING.

PALM PLANTING ON SLOPE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SEMINOLE COUNTY
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 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

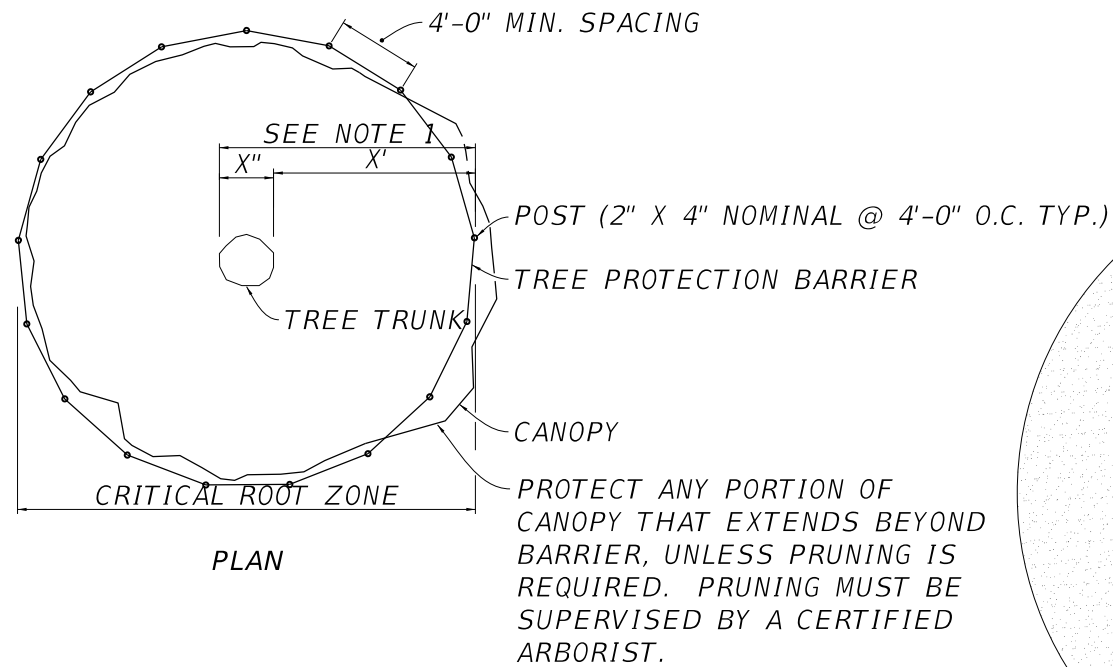
LANDSCAPE DETAILS

SHEET NO.
LD-16

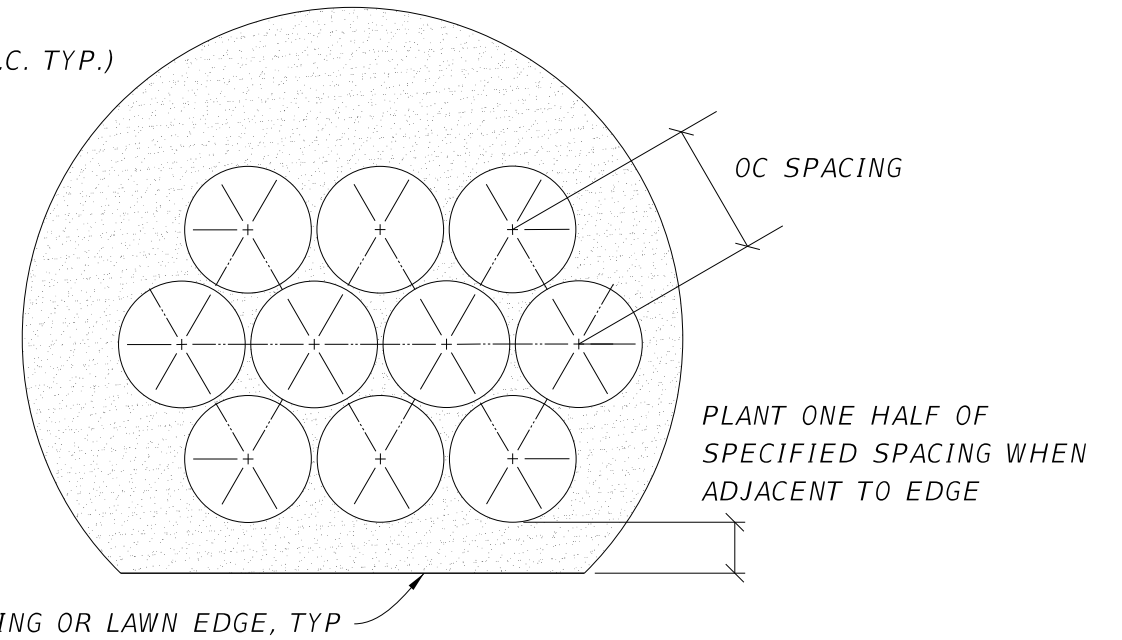
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NOTES:

1. CRITICAL ROOT ZONE: EXTENDS IN ALL DIRECTIONS FROM TRUNK OF TREE TO A DISTANCE EQUAL TO ONE FOOT PER INCH OF TRUNK DIAMETER AT BREAST HEIGHT.
2. STAGING, STORAGE, DUMPING, WASHING AND OPERATION OF EQUIPMENT IS NOT PERMITTED WITHIN THE LIMITS OF THE TREE PROTECTION BARRIER, INCLUDING DURING BARRIER INSTALLATION.
3. INSTALL ALL TREE PROTECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REMOVE WHEN DIRECTED BY THE ENGINEER. MAINTAIN PROTECTION AT ALL TIMES.
4. FOR CLOSELY SPACED GROUPS OF TREES, PLACE THE TREE PROTECTION BARRIER AROUND THE ENTIRE GROUP.
5. INSPECT TRUNK PROTECTION AND TREE QUARTERLY TO PREVENT GIRDLING. ADJUST BANDS TO ALLOW TREE GROWTH AS NEEDED.
6. SEE PLANS FOR ANY ADDITIONAL REQUIREMENTS OR MODIFICATIONS WITHIN THE TREE PROTECTION AREA.
7. PLACE WEATHER RESISTANT SIGN EVERY 50' ALONG THE BARRIER, WITH 6" MINIMUM TEXT HEIGHT AND PROVIDE TEXT IN ENGLISH AND SPANISH. SIGN SHOULD READ "KEEP OUT TREE PROTECTION AREA".
8. ALTERNATE TREE PROTECTION SYSTEMS APPROVED BY THE ENGINEER MAY BE USED IN LIEU OF THE TREE PROTECTION BARRIER DETAILED HERE AS LONG AS THE CRITICAL ROOT ZONE IS PROTECTED.
9. THE CRITICAL ROOT ZONE MAY BE REDUCED, IN THE FIELD, BY A CERTIFIED ARBORIST OR LANDSCAPE ARCHITECT.



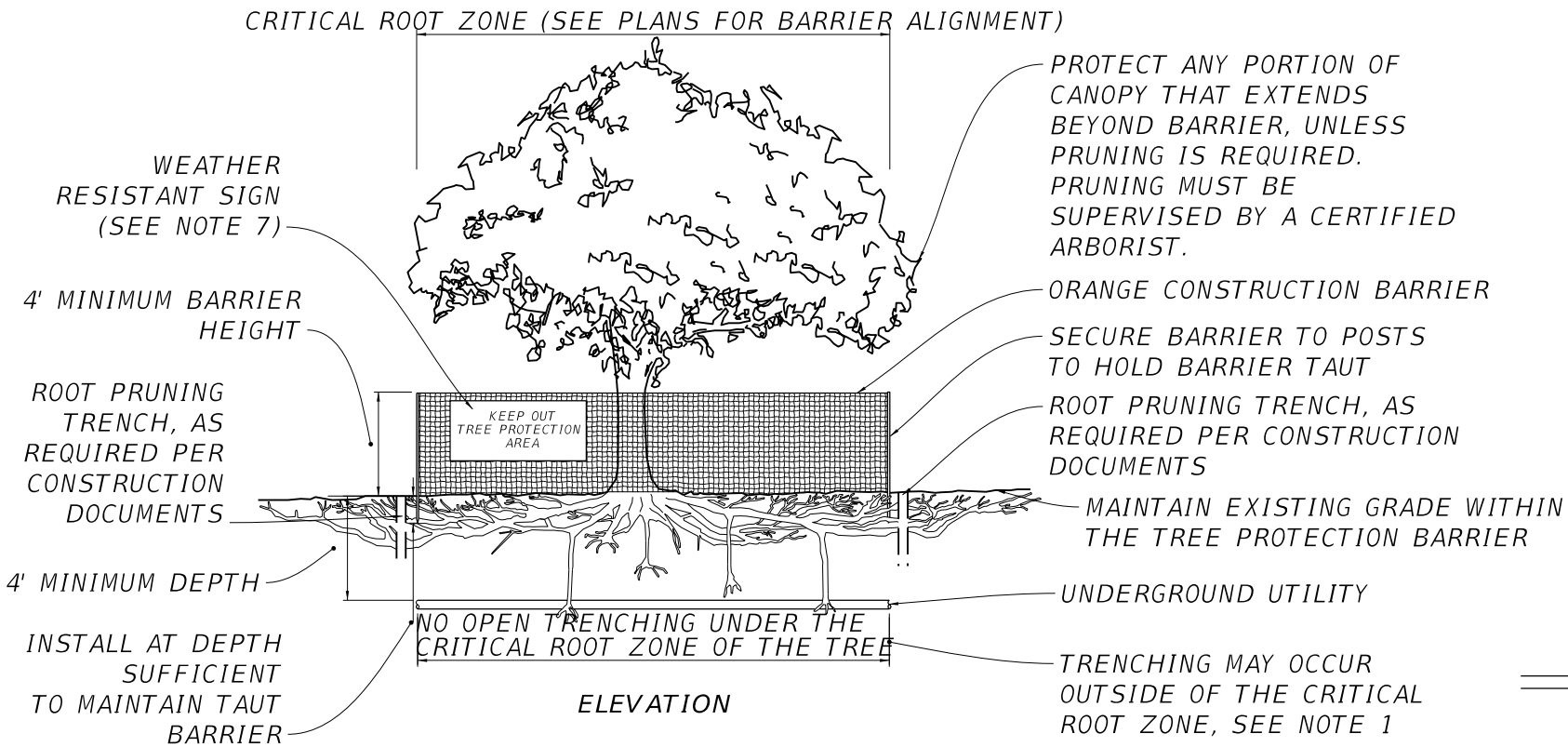
PLAN



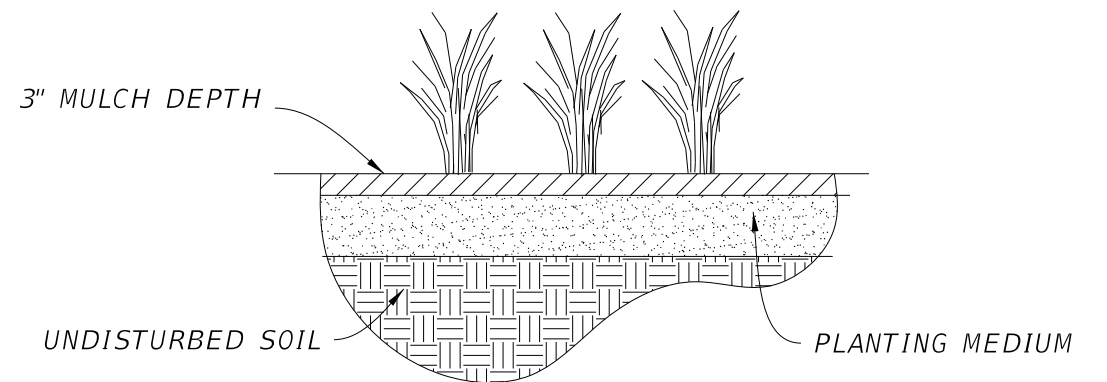
PAVING OR LAWN EDGE, TYP

NOTES:

1. ALL GROWDCOVER SHALL BE PLANTED AT OC SPACING AS SPECIFIED ON THE PLANT SCHEDULE SHEET.
2. LOCATE GROWDCOVER ONE HALF OF SPECIFIED SPACING DISTANCE FROM ANY CURB, SIDEWALK, OR OTHER HARD SURFACE, UNLESS OTHERWISE SPECIFIED.



TREE PROTECTION BARRIER



NOTE: KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.

GROUNDCOVER PLANTING DETAIL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAGUED HANNA, R.L.A. LICENSE NO. LA6667254
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

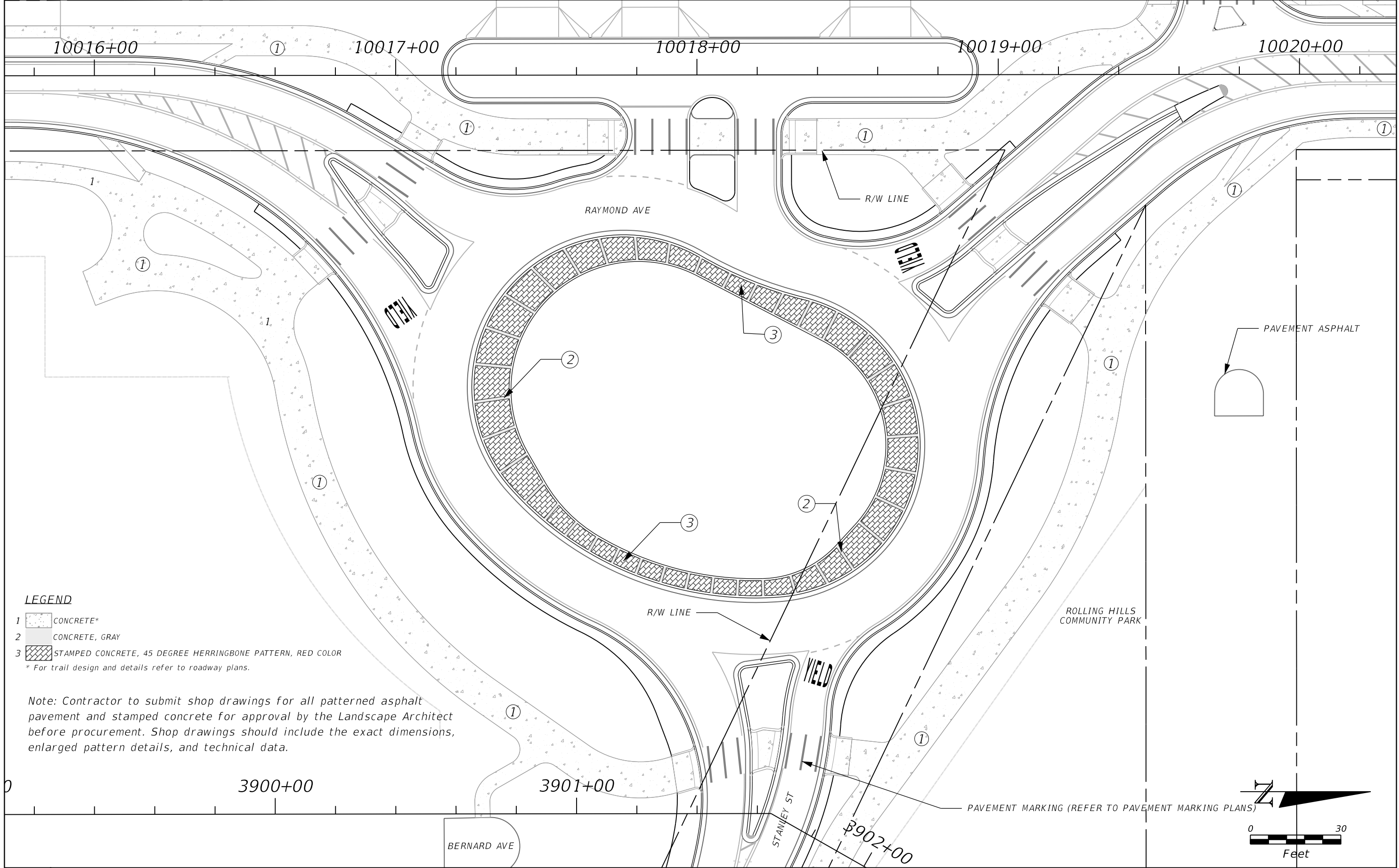
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

LANDSCAPE DETAILS

SHEET NO.
LD-17

MATCHLINE LD-19

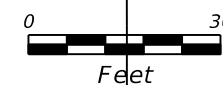


LEGEND

- 1 CONCRETE*
- 2 CONCRETE, GRAY
- 3 STAMPED CONCRETE, 45 DEGREE HERRINGBONE PATTERN, RED COLOR

* For trail design and details refer to roadway plans.

Note: Contractor to submit shop drawings for all patterned asphalt pavement and stamped concrete for approval by the Landscape Architect before procurement. Shop drawings should include the exact dimensions, enlarged pattern details, and technical data.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 315 E. ROBINSON ST.
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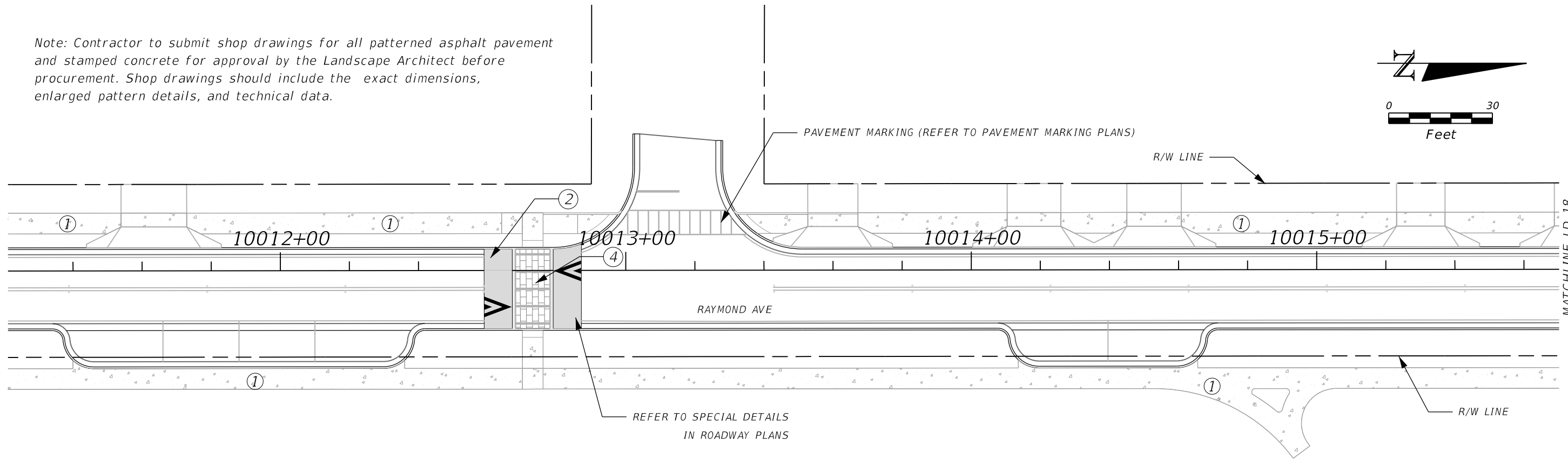
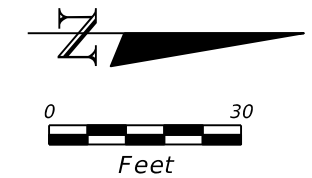
SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1	
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**HARDSCAPE PLAN
RAYMOND AVENUE (1)**

SHEET NO.
LD-18

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MATCHLINE LD-18

LEGEND

- 1 CONCRETE*
 - 2 CONCRETE, GRAY
 - 4 STAMPED CONCRETE, RUNNING BOND PATTERN, GREEN COLOR
- * Refer to roadway plans for trail

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 315 E. ROBINSON ST.
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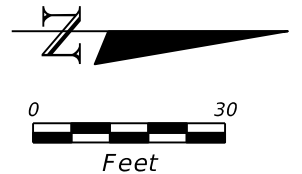
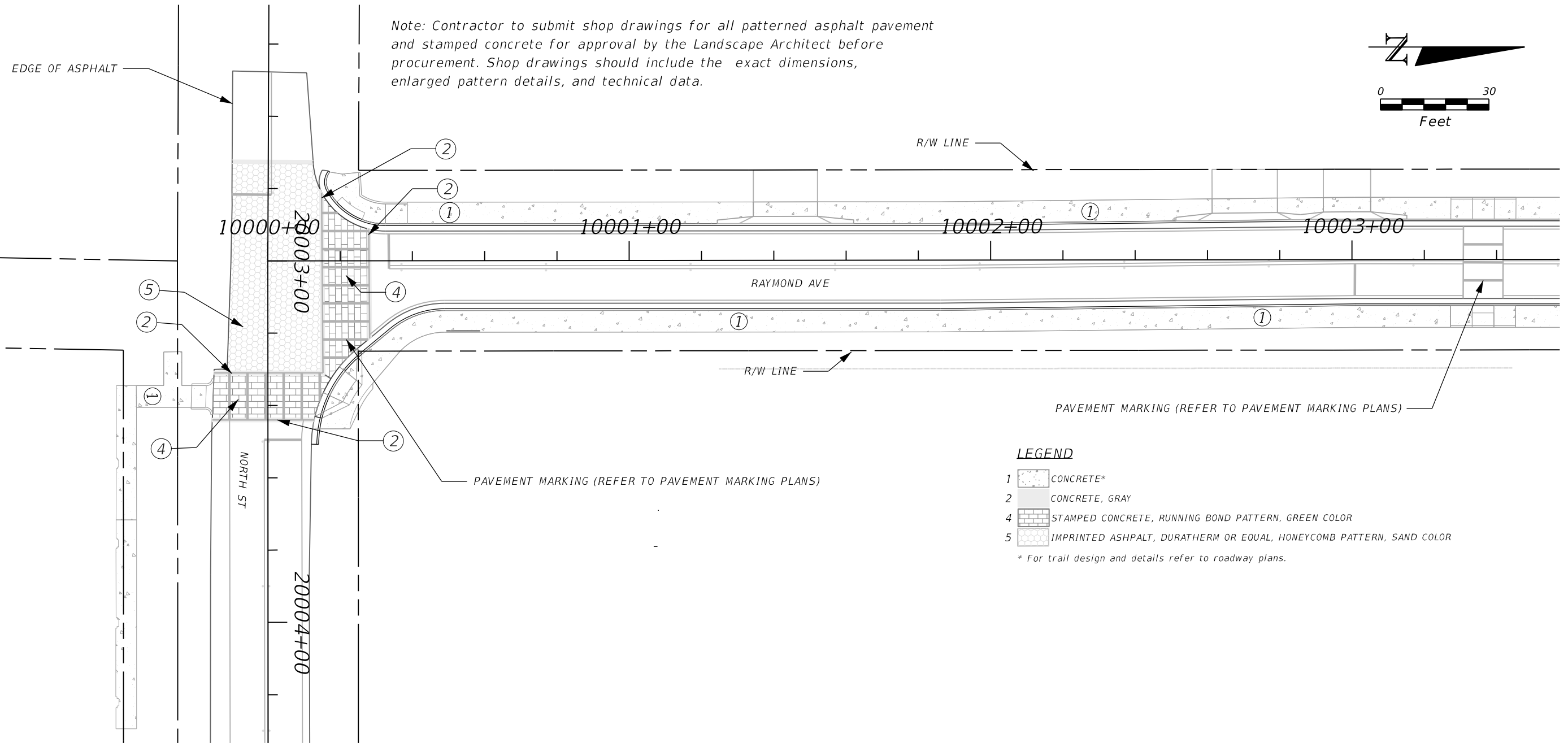
**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

**HARDSCAPE PLAN
 RAYMOND AVENUE (2)**

SHEET NO.
 LD-19

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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

HARDSCAPE PLAN
 RAYMOND AVENUE (3)

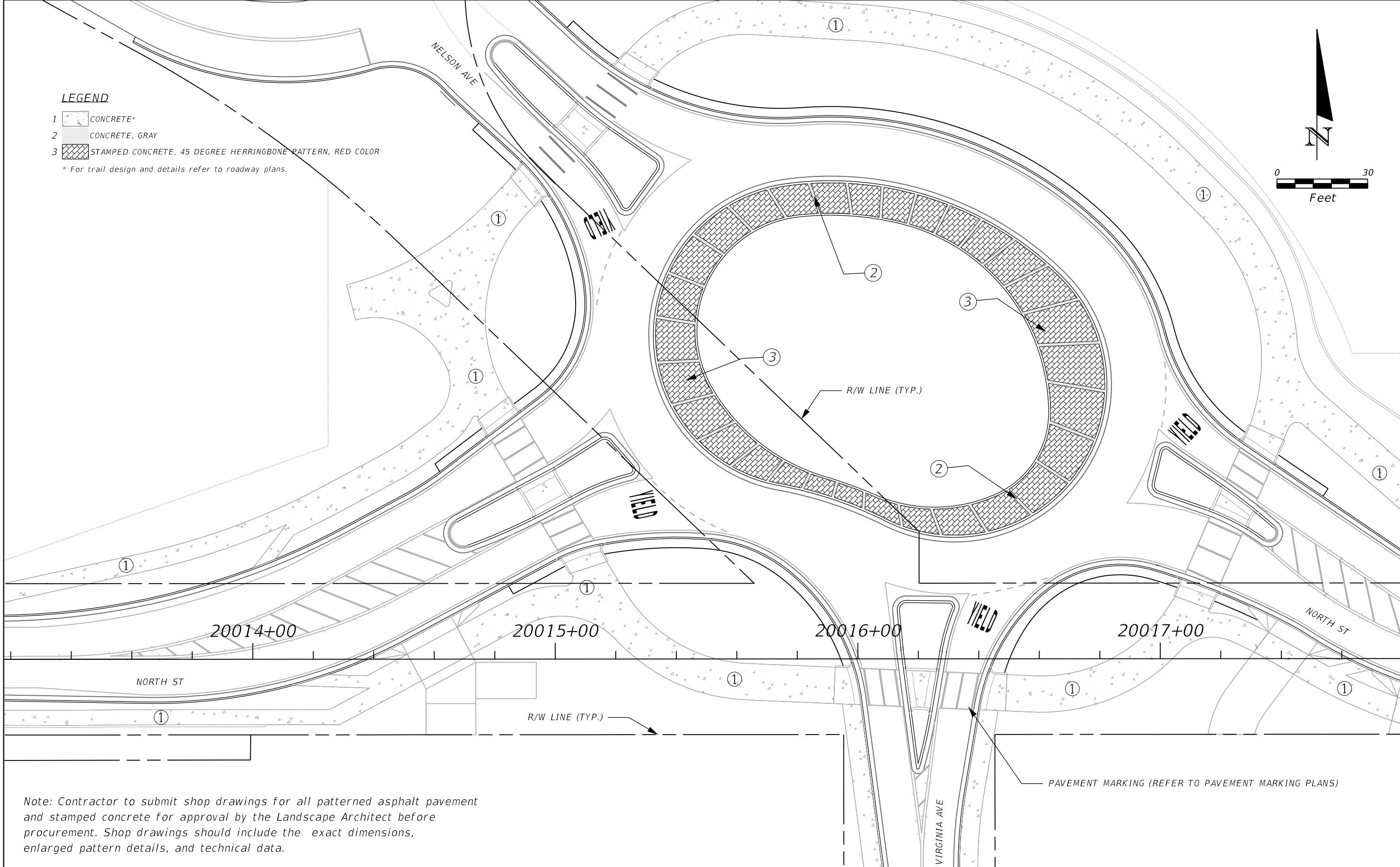
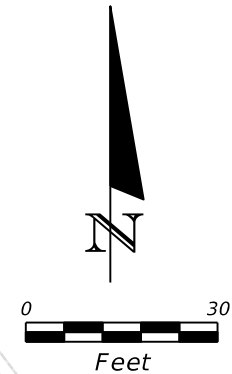
SHEET NO.
 LD-20

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LEGEND

- 1  CONCRETE*
- 2  CONCRETE, GRAY
- 3  STAMPED CONCRETE, 45 DEGREE HERRINGBONE PATTERN, RED COLOR

* For trail design and details refer to roadway plans.



Note: Contractor to submit shop drawings for all patterned asphalt pavement and stamped concrete for approval by the Landscape Architect before procurement. Shop drawings should include the exact dimensions, enlarged pattern details, and technical data.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 ORLANDO, FL 32801
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 FAX 407.420.4242



**SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1**

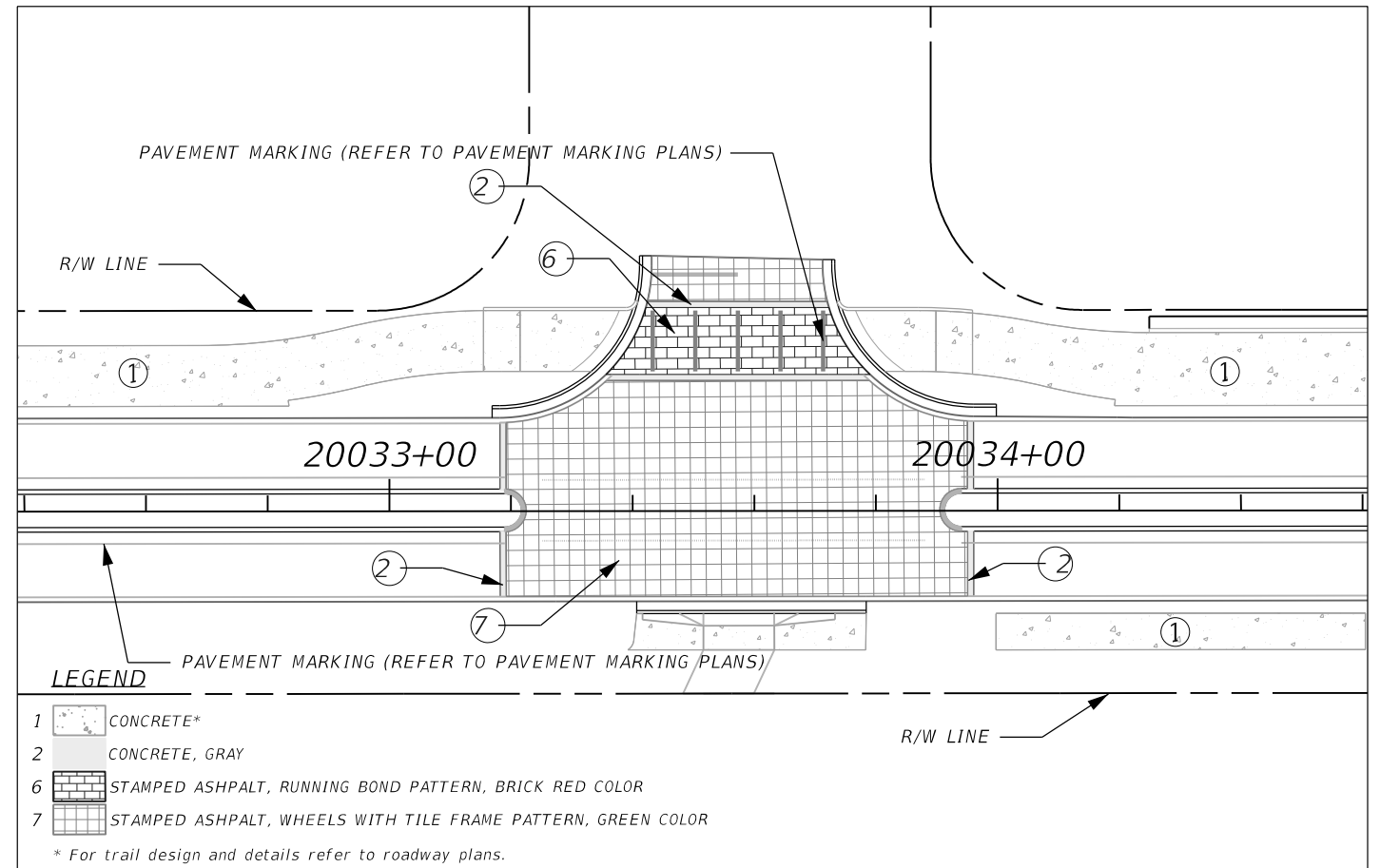
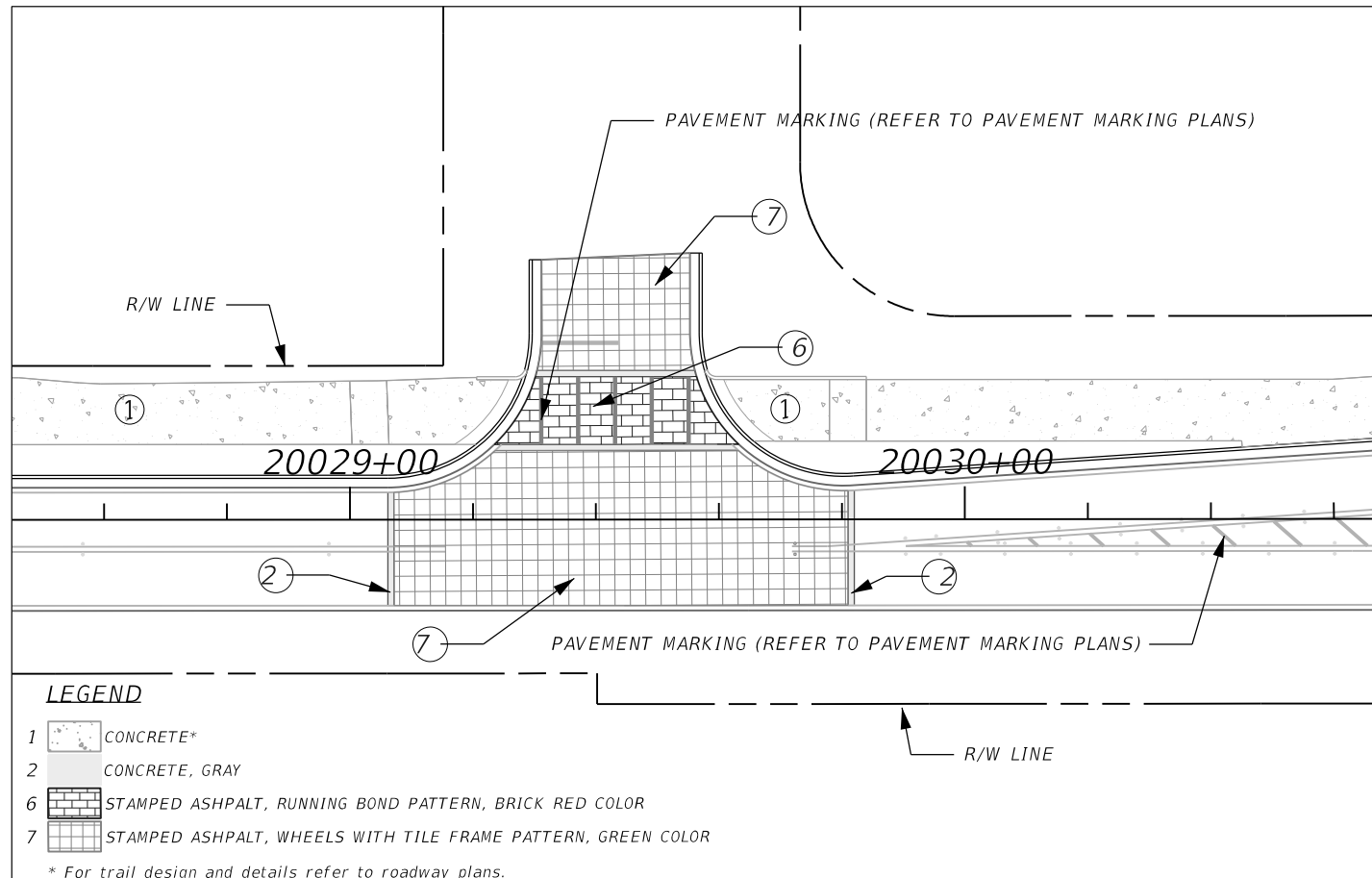
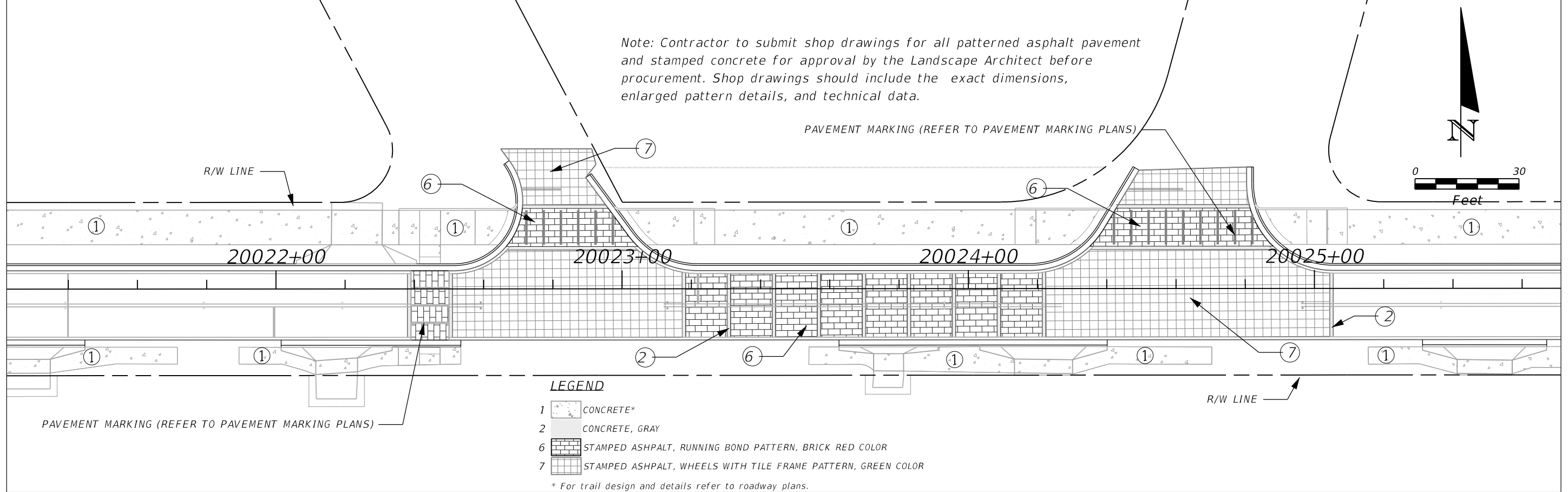
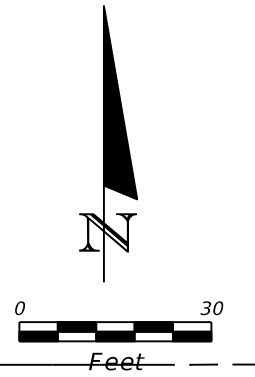
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**HARDSCAPE PLAN
 NORTH STREET (1)**

SHEET NO.
 LD-21

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SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

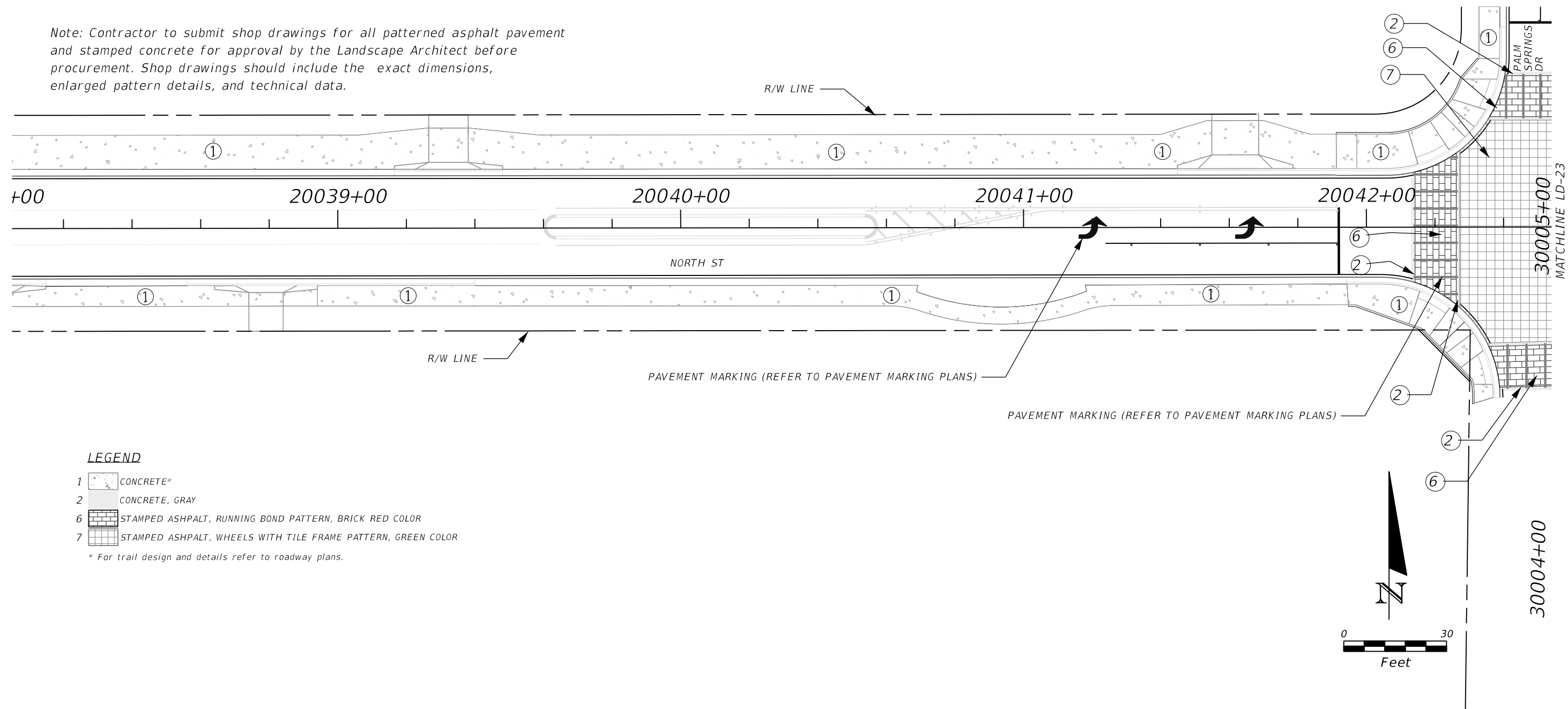
ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

HARDSCAPE PLAN
NORTH STREET (2)

SHEET NO.
 LD-22

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LEGEND

- 1 CONCRETE*
- 2 CONCRETE, GRAY
- 6 STAMPED ASPHALT, RUNNING BOND PATTERN, BRICK RED COLOR
- 7 STAMPED ASPHALT, WHEELS WITH TILE FRAME PATTERN, GREEN COLOR

* For trail design and details refer to roadway plans.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAGUED HANNA, R.L.A. LICENSE NO. LA6667254
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
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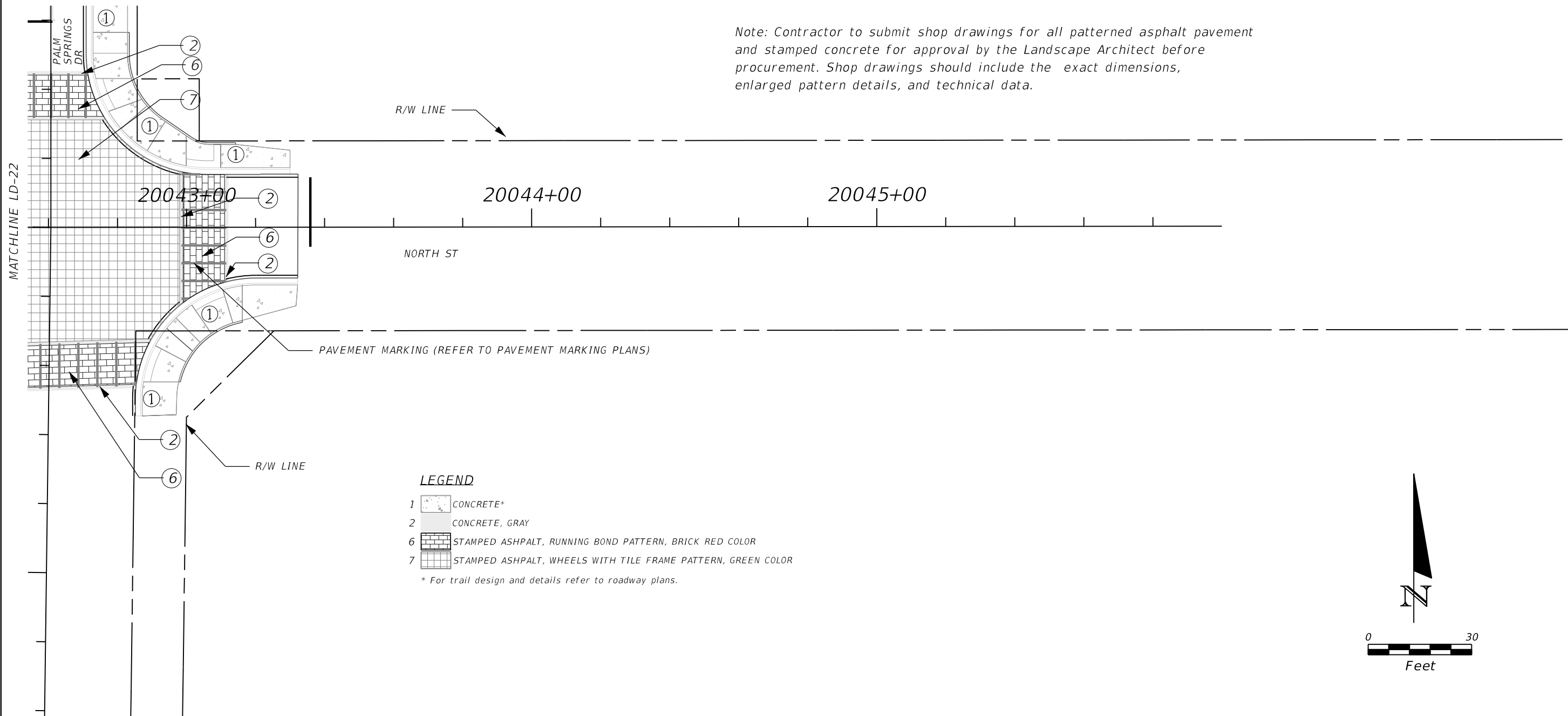
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

HARDSCAPE PLAN
 NORTH STREET (3)

SHEET NO.
 LD-23

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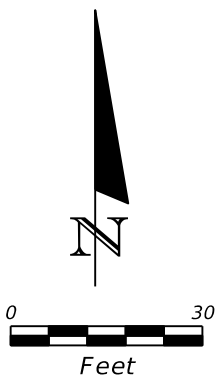


Note: Contractor to submit shop drawings for all patterned asphalt pavement and stamped concrete for approval by the Landscape Architect before procurement. Shop drawings should include the exact dimensions, enlarged pattern details, and technical data.

LEGEND

- 1 CONCRETE*
- 2 CONCRETE, GRAY
- 6 STAMPED ASPHALT, RUNNING BOND PATTERN, BRICK RED COLOR
- 7 STAMPED ASPHALT, WHEELS WITH TILE FRAME PATTERN, GREEN COLOR

* For trail design and details refer to roadway plans.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

HARDSCAPE PLAN
 NORTH STREET (4)

SHEET NO.	LD-24
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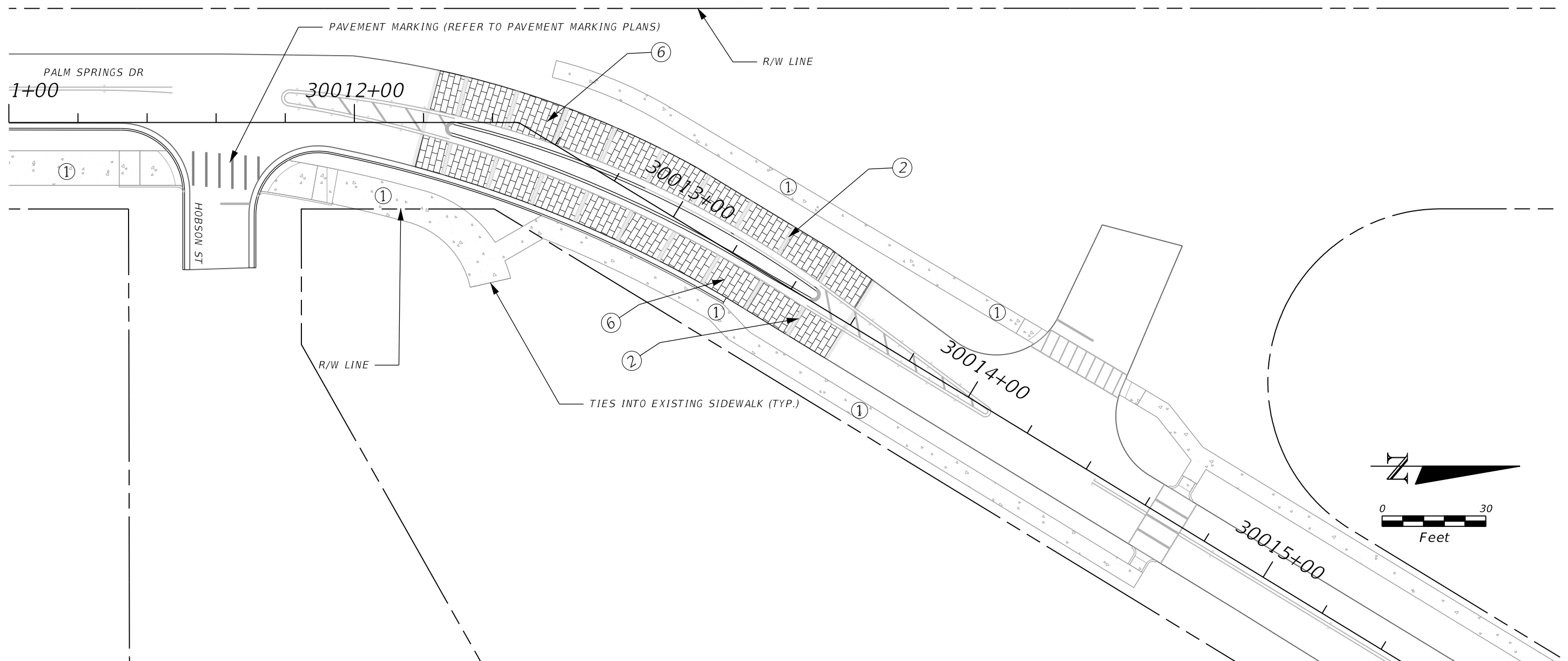
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Note: Contractor to submit shop drawings for all patterned asphalt pavement and stamped concrete for approval by the Landscape Architect before procurement. Shop drawings should include the exact dimensions, enlarged pattern details, and technical data.

LEGEND

- 1 CONCRETE*
- 2 CONCRETE, GRAY
- 6 STAMPED ASPHALT, RUNNING BOND PATTERN, BRICK RED COLOR

* For trail design and details refer to roadway plans.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAGUED HANNA, R.L.A. LICENSE NO. LA6667254
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



SEMINOLE COUNTY ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

HARDSCAPE PLAN
PALM SPRINGS DRIVE (1)

SHEET NO.
 LD-25

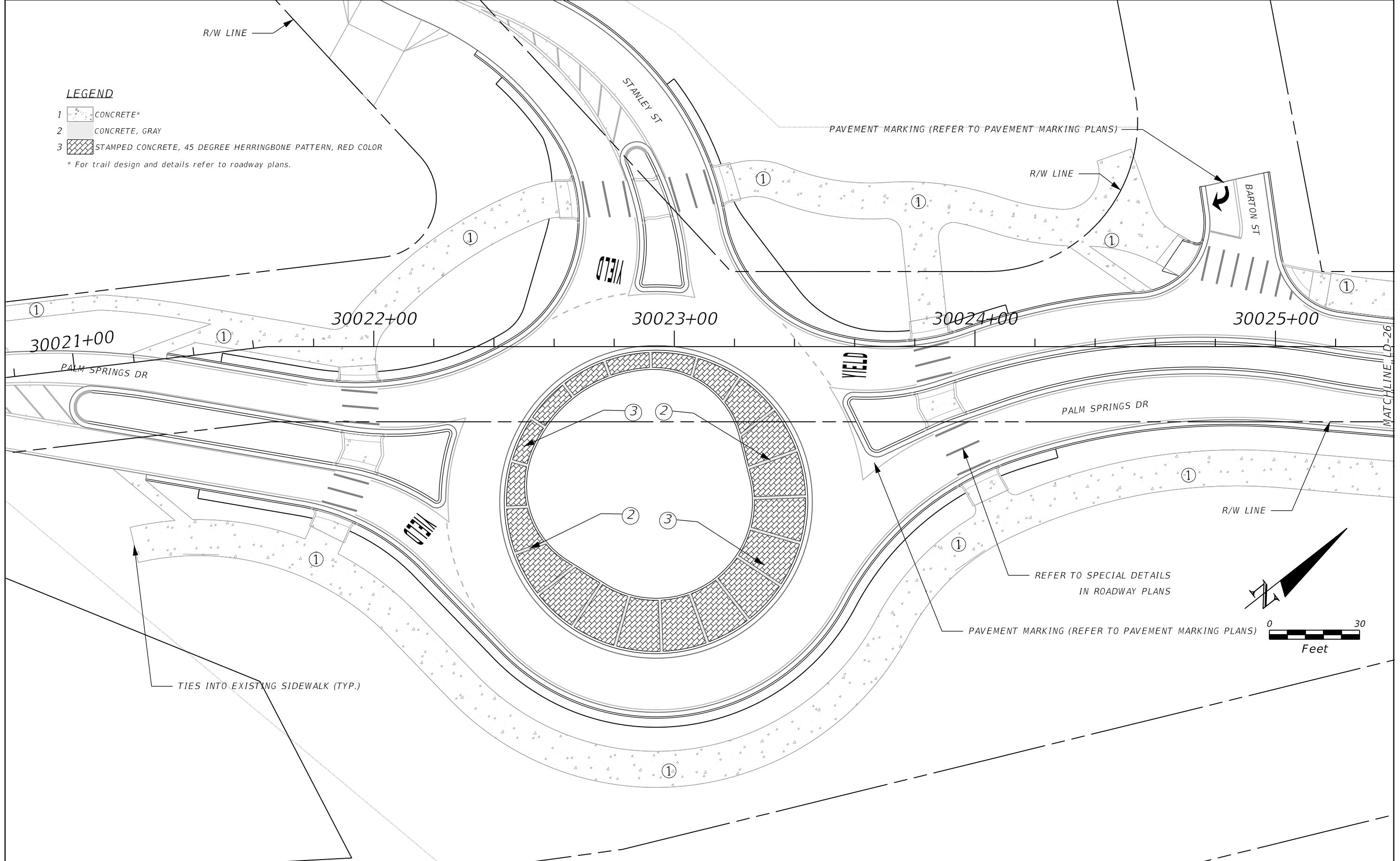
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R/W LINE

LEGEND

- 1  CONCRETE*
- 2  CONCRETE, GRAY
- 3  STAMPED CONCRETE, 45 DEGREE HERRINGBONE PATTERN, RED COLOR

* For trail design and details refer to roadway plans.



MATCH LINE LD-26

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 315 E. ROBINSON ST.
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 ORLANDO, FL 32801
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1





ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**HARDSCAPE PLAN
 PALM SPRINGS DRIVE (2)**

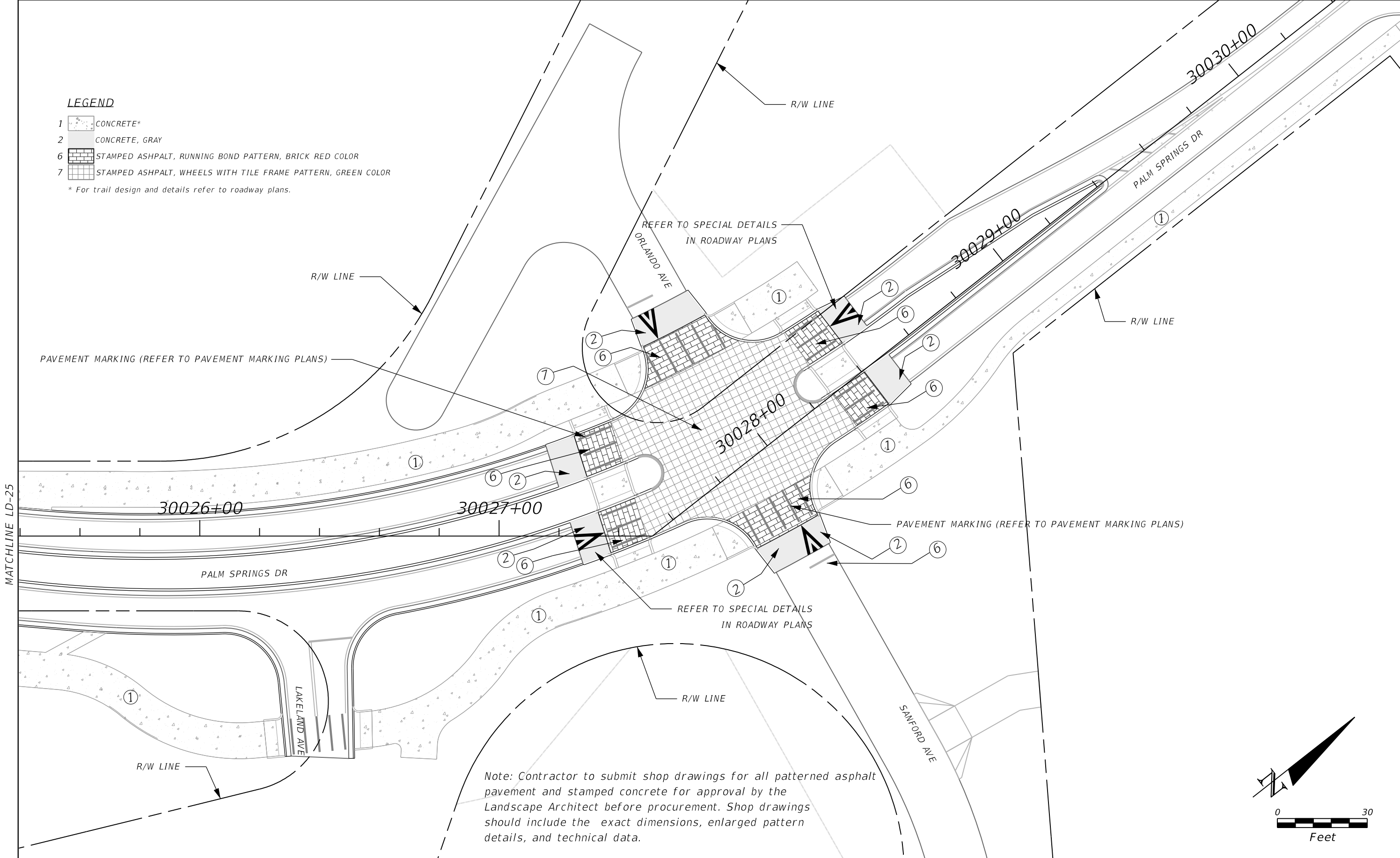
SHEET NO.
 LD-26

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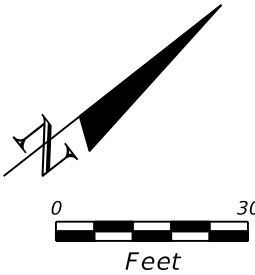
LEGEND

- 1  CONCRETE*
- 2  CONCRETE, GRAY
- 6  STAMPED ASPHALT, RUNNING BOND PATTERN, BRICK RED COLOR
- 7  STAMPED ASPHALT, WHEELS WITH TILE FRAME PATTERN, GREEN COLOR

* For trail design and details refer to roadway plans.



Note: Contractor to submit shop drawings for all patterned asphalt pavement and stamped concrete for approval by the Landscape Architect before procurement. Shop drawings should include the exact dimensions, enlarged pattern details, and technical data.



REVISIONS			
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**HARDSCAPE PLAN
 PALM SPRINGS DRIVE (3)**

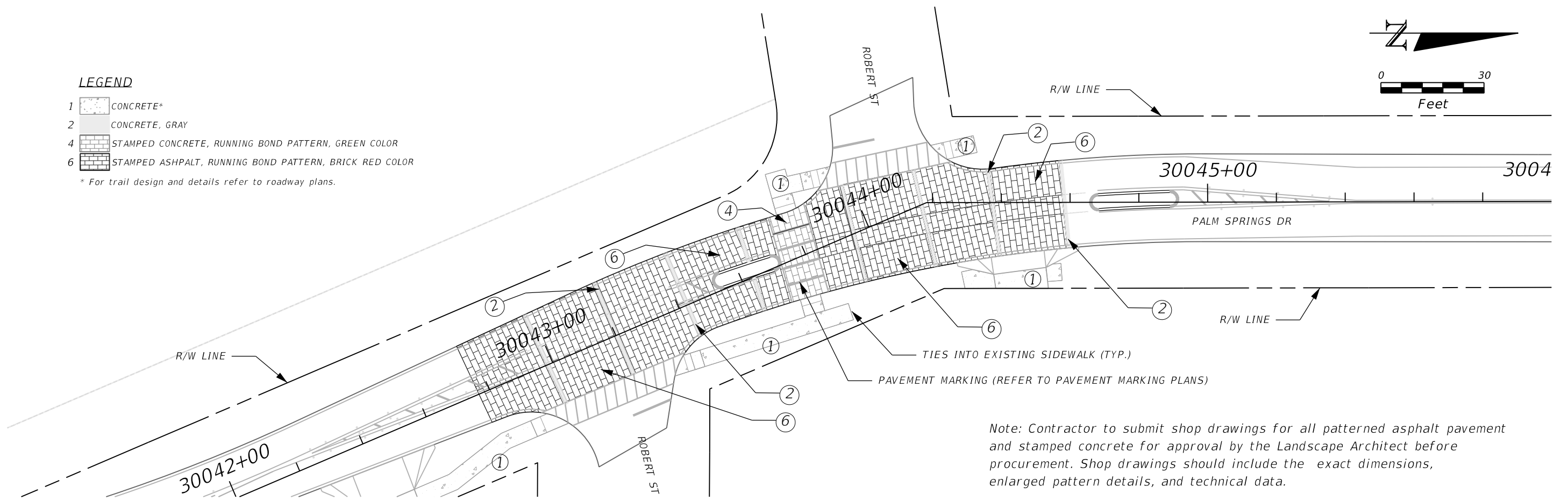
SHEET NO.
 LD-27

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LEGEND

- 1 CONCRETE*
- 2 CONCRETE, GRAY
- 4 STAMPED CONCRETE, RUNNING BOND PATTERN, GREEN COLOR
- 6 STAMPED ASPHALT, RUNNING BOND PATTERN, BRICK RED COLOR

* For trail design and details refer to roadway plans.



Note: Contractor to submit shop drawings for all patterned asphalt pavement and stamped concrete for approval by the Landscape Architect before procurement. Shop drawings should include the exact dimensions, enlarged pattern details, and technical data.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

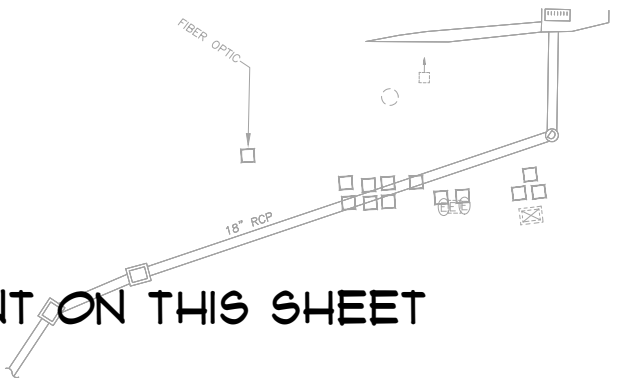
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

HARDSCAPE PLAN PLAN
 PALM SPRINGS DRIVE (4)

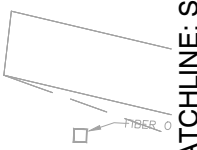
SHEET NO.
 LD-28

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PROVIDE LABOR AND MATERIALS TO REPLACE ALL IRRIGATION EQUIPMENT ALONG S.R. 434. INSTALL THIS SYSTEM TO PROVIDE HEAD TO HEAD COVERAGE. SET ALL NOZZLES TO NOT OVER SPRAY ONTO IMPERVIOUS AREAS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

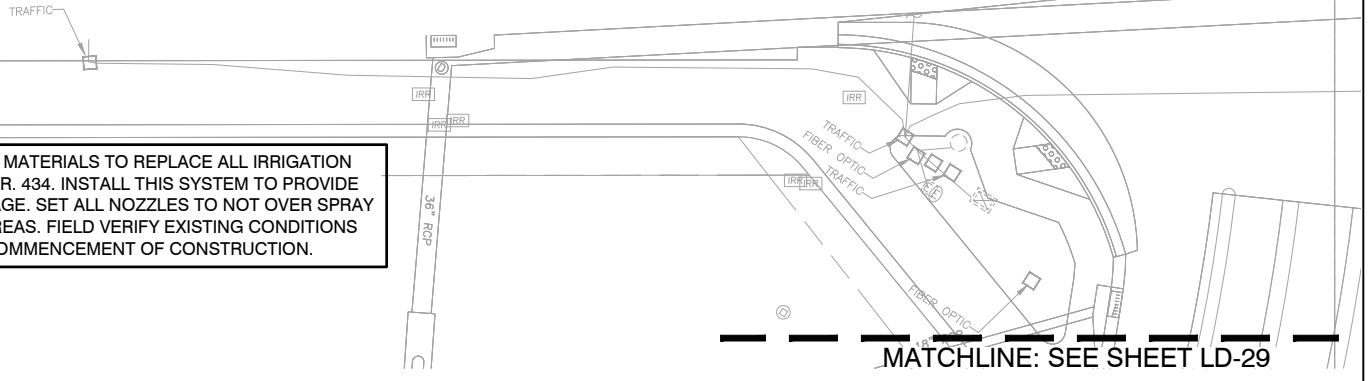


NO IRRIGATION CONTENT ON THIS SHEET



MATCHLINE: SEE BELOW

NO IRRIGATION CONTENT ON THIS SHEET



PROVIDE LABOR AND MATERIALS TO REPLACE ALL IRRIGATION EQUIPMENT ALONG S.R. 434. INSTALL THIS SYSTEM TO PROVIDE HEAD TO HEAD COVERAGE. SET ALL NOZZLES TO NOT OVER SPRAY ONTO IMPERVIOUS AREAS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

MATCHLINE: SEE SHEET LD-29


MATCHLINE: SEE ABOVE



INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAGUED HANNA, R.L.A.
 LICENSE NO. LA6667254
 315 E. ROBINSON ST.
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 PHONE 407.420.4200
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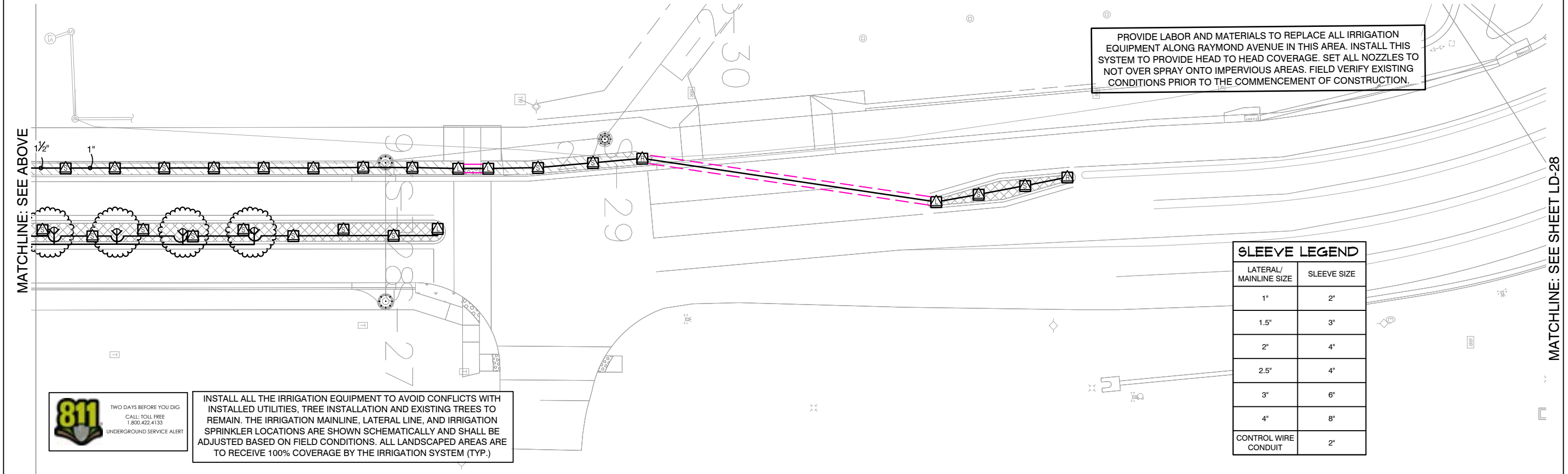
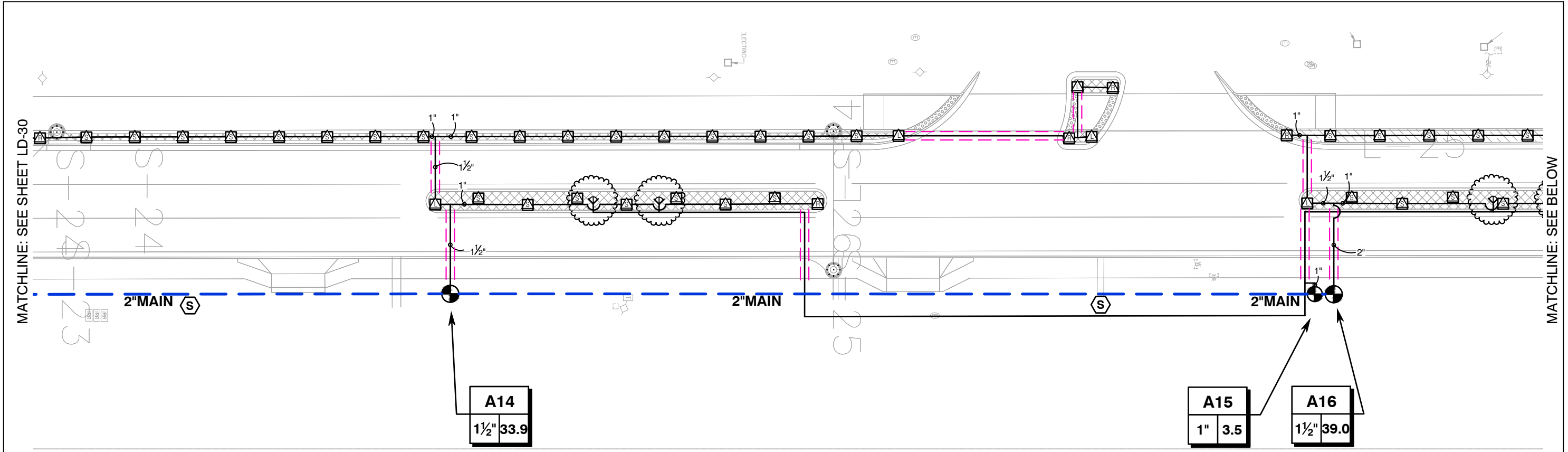
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

IRRIGATION PLAN
 STATE ROAD 434

SHEET NO.
 LD-29

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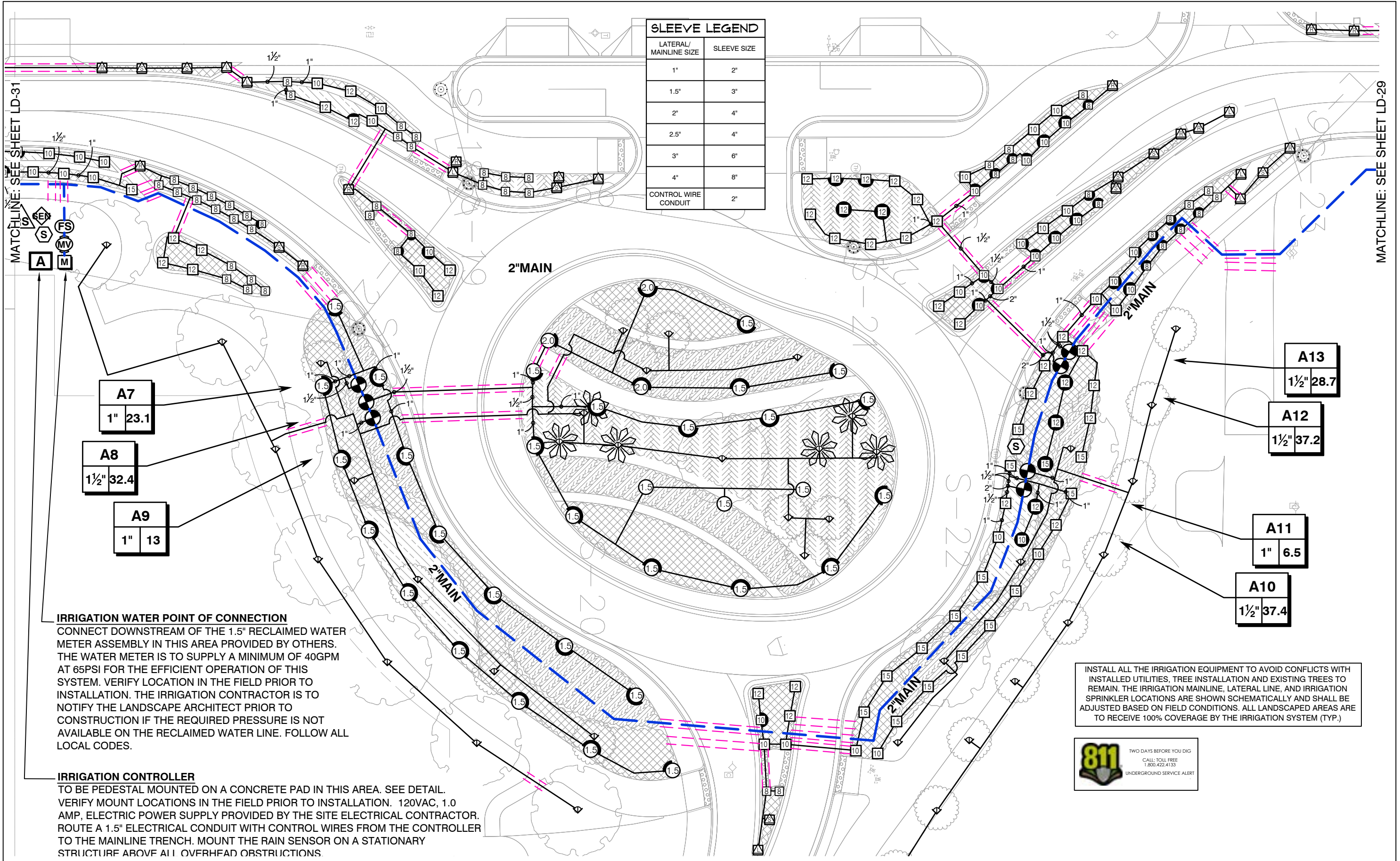
INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)

SLEEVE LEGEND	
LATERAL/MAINLINE SIZE	SLEEVE SIZE
1"	2"
1.5"	3"
2"	4"
2.5"	4"
3"	6"
4"	8"
CONTROL WIRE CONDUIT	2"

REVISIONS				MAGUED HANNA, R.L.A. LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1 ROAD COUNTY CIP No. RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR. 01907084	IRRIGATION PLAN RAYMOND AVENUE (1)	SHEET NO. LD-30
DATE	DESCRIPTION	DATE	DESCRIPTION				

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SLEEVE LEGEND	
LATERAL/MAINLINE SIZE	SLEEVE SIZE
1"	2"
1.5"	3"
2"	4"
2.5"	4"
3"	6"
4"	8"
CONTROL WIRE CONDUIT	2"



MATCHLINE: SEE SHEET LD-31

MATCHLINE: SEE SHEET LD-29

A7
1" 23.1

A8
1 1/2" 32.4

A9
1" 13

A13
1 1/2" 28.7

A12
1 1/2" 37.2

A11
1" 6.5

A10
1 1/2" 37.4

IRRIGATION WATER POINT OF CONNECTION
CONNECT DOWNSTREAM OF THE 1.5" RECLAIMED WATER METER ASSEMBLY IN THIS AREA PROVIDED BY OTHERS. THE WATER METER IS TO SUPPLY A MINIMUM OF 40GPM AT 65PSI FOR THE EFFICIENT OPERATION OF THIS SYSTEM. VERIFY LOCATION IN THE FIELD PRIOR TO INSTALLATION. THE IRRIGATION CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION IF THE REQUIRED PRESSURE IS NOT AVAILABLE ON THE RECLAIMED WATER LINE. FOLLOW ALL LOCAL CODES.


IRRIGATION CONTROLLER
TO BE PEDESTAL MOUNTED ON A CONCRETE PAD IN THIS AREA. SEE DETAIL. VERIFY MOUNT LOCATIONS IN THE FIELD PRIOR TO INSTALLATION. 120VAC, 1.0 AMP, ELECTRIC POWER SUPPLY PROVIDED BY THE SITE ELECTRICAL CONTRACTOR. ROUTE A 1.5" ELECTRICAL CONDUIT WITH CONTROL WIRES FROM THE CONTROLLER TO THE MAINLINE TRENCH. MOUNT THE RAIN SENSOR ON A STATIONARY STRUCTURE ABOVE ALL OVERHEAD OBSTRUCTIONS.

INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)



REVISIONS			
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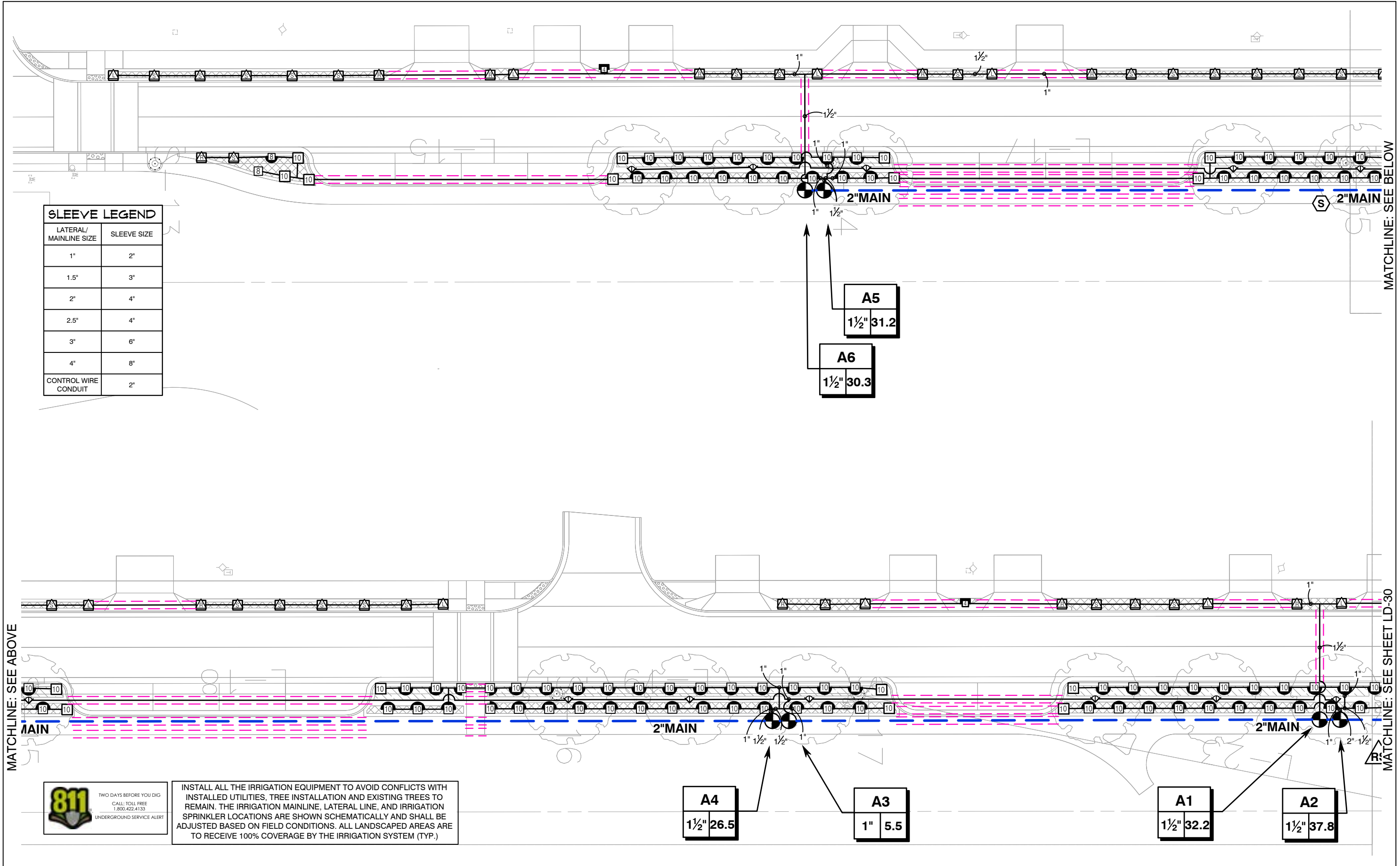


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1
ROAD COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.
01907084

IRRIGATION PLAN
RAYMOND AVENUE (2)

SHEET NO.
LD-31

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MATCHLINE: SEE ABOVE

MATCHLINE: SEE BELOW

MATCHLINE: SEE SHEET LD-30



INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)

A4
1 1/2" 26.5


A3
1" 5.5

A1
1 1/2" 32.2

A2
1 1/2" 37.8

A5
1 1/2" 31.2

A6
1 1/2" 30.3

REVISIONS				MAGUED HANNA, R.L.A.		SEMINOLE COUNTY ENGINEERING DIVISION		IRRIGATION PLAN	
DATE	DESCRIPTION	DATE	DESCRIPTION			ROLLING HILLS AREA ROADWAYS PHASE 1		RAYMOND AVENUE (3)	
				 LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242		ROAD		COUNTY CIP No.	
						RAYMOND AVE., NORTH ST., PALM SPRINGS DR.		01907084	
								SHEET NO.	
								LD-32	

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