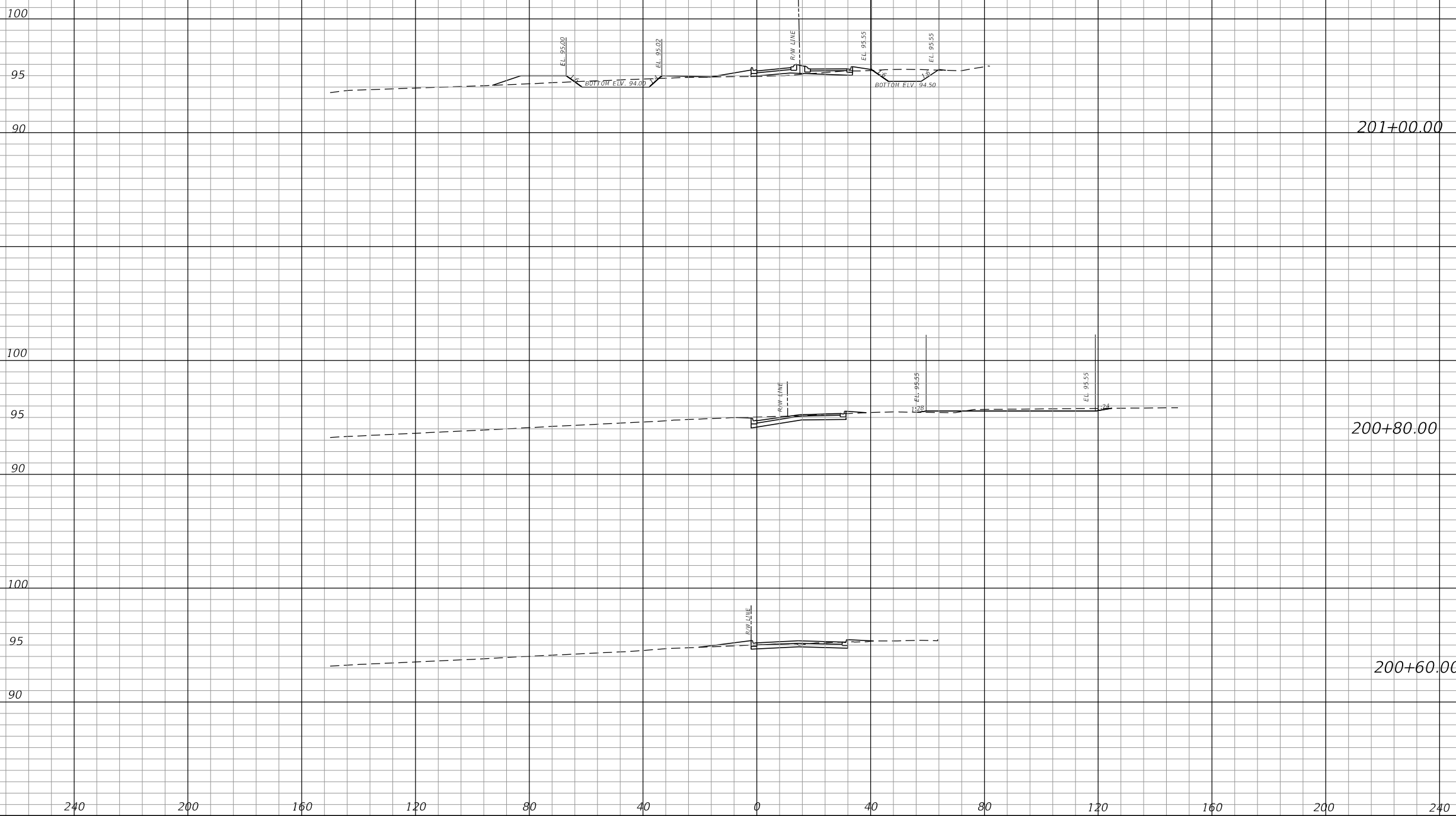


RB PSS NWLEG

Regular		Exc.		Embankment	
A	V	A	V	A	V
			33		12
35		17			
	16		7		
9		2			
	0		0		
0		0			



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

POND CROSS
 SECTIONS SHEETS
 PSS PONDS

SHEET NO.
 141

DATE OF SURVEY: AUGUST 2021
 SURVEY MADE BY: GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
 SUBMITTED BY: VERNA E. WILLIFORD IV, P.E.

PROJECT NAME: ROLLING HILLS AREA ROADWAYS PHASE 1

ROAD: RAYMOND AVE., NORTH ST., PALM SPRINGS DR.
 COUNTY: SEMINOLE

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADWAY

RAYMOND AVENUE BEGIN STA.: 10000+00 END STA.: 10030+60
 NORTH STREET BEGIN STA.: 20000+00 END STA.: 20046+00
 PALM SPRINGS DRIVE BEGIN STA.: 50000+00 END STA.: 40046+90

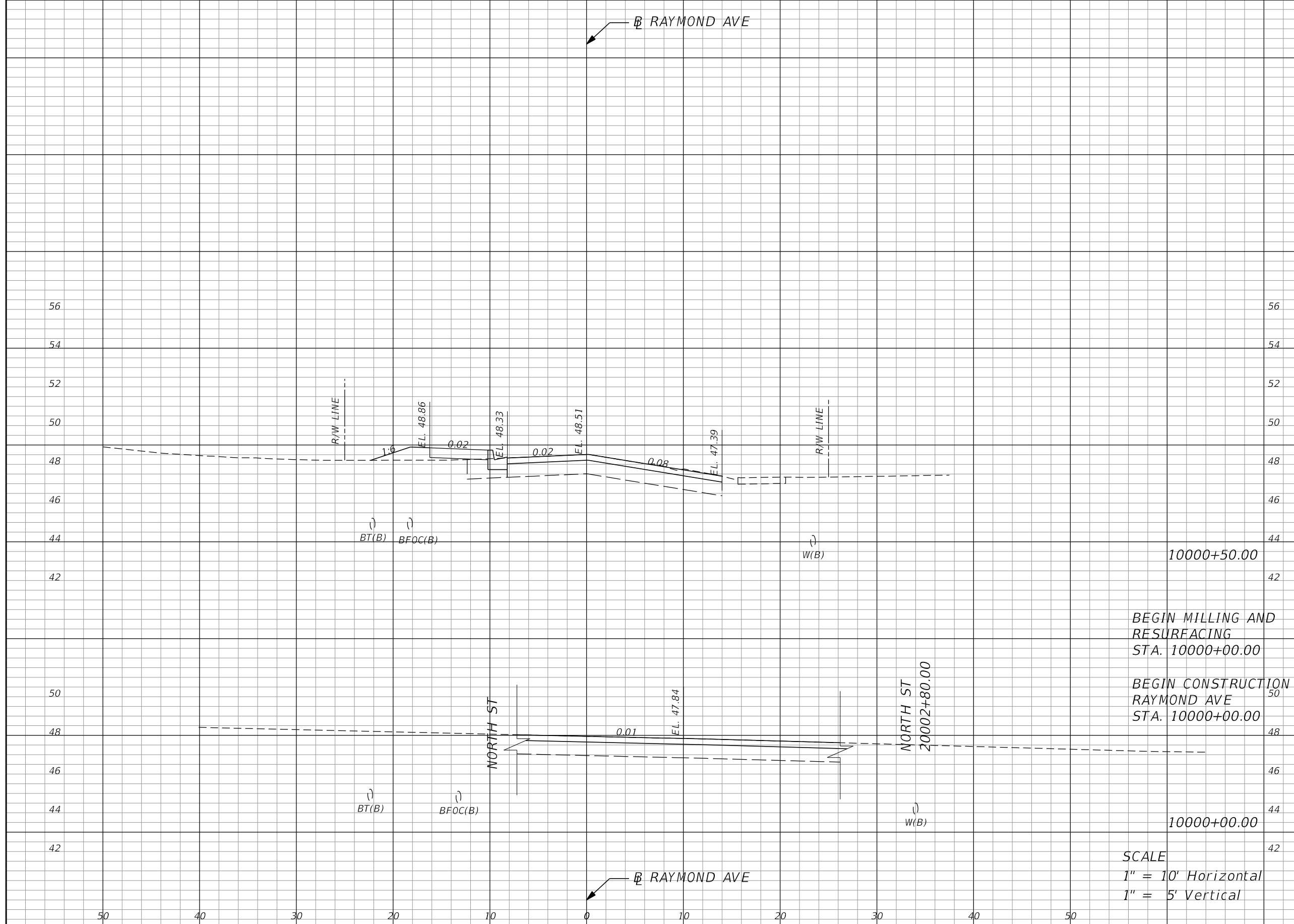
STATIONS REFERENCE: CENTERLINE OF CONSTRUCTION

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX		AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	0	-	0	-	15	97-100	85-94	59-73	16-37	2-7	0	-	-	A-3	LIGHT BROWN TO BROWN FINE SAND TO FINE SAND WITH SILT, OCCASIONAL LITTLE LIMEROCK	1	57,500	15	12	5.4
2	0	-	0	-	2	89-100	77-89	56-67	28-33	12-14	0	-	-	A-2-4	LIGHT BROWN TO BROWN FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL FEW LIMEROCK	0	-	-	-	-
3	0	-	1	15	1	100	84	68	46	22	1	26	12	A-2-6	LIGHT BROWN CLAYEY FINE SAND	1	15,000	15	36	5.1

NOTES

- STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY SUBSOIL CONNECTING LINES THAT ARE SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120.3.
- WATER TABLE SHOWN AS ▼ WHERE ENCOUNTERED AT TIME OF SURVEY. GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE". ESTIMATED SEASONAL HIGH SHOWN AS ▽ IF ESTIMATED AT OR ABOVE OR ABOVE THE BOTTOM OF THE BORING PROFILE.
- REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX 120-002, UNLESS OTHERWISE SHOWN ON THE PLANS. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDEX 120-001.
- SOIL ANALYSIS INCLUDES DATA FROM THE ROADWAY AND POND BORINGS.
- THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
- STRATA 1 AND 2 SHALL BE TREATED AS SELECT (S) MATERIAL, IN ACCORDANCE WITH INDEX 120-001.
- STRATUM 3 SHALL BE TREATED AS PLASTIC (P) MATERIAL, IN ACCORDANCE WITH INDEX 120-001.
- STRATUM 2 MAY RETAIN MOISTURE AND MAY BE DIFFICULT TO COMPACT.

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		ROADWAY SOIL SURVEY	SHEET NO. 142
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		



Regular		Exc.		Embankment	
A	V	A	V	A	V
	1.13			4.64	
0			3.12		
	0			2.89	
0			0		

BEGIN MILLING AND RESURFACING
STA. 10000+00.00

BEGIN CONSTRUCTION
RAYMOND AVE
STA. 10000+00.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

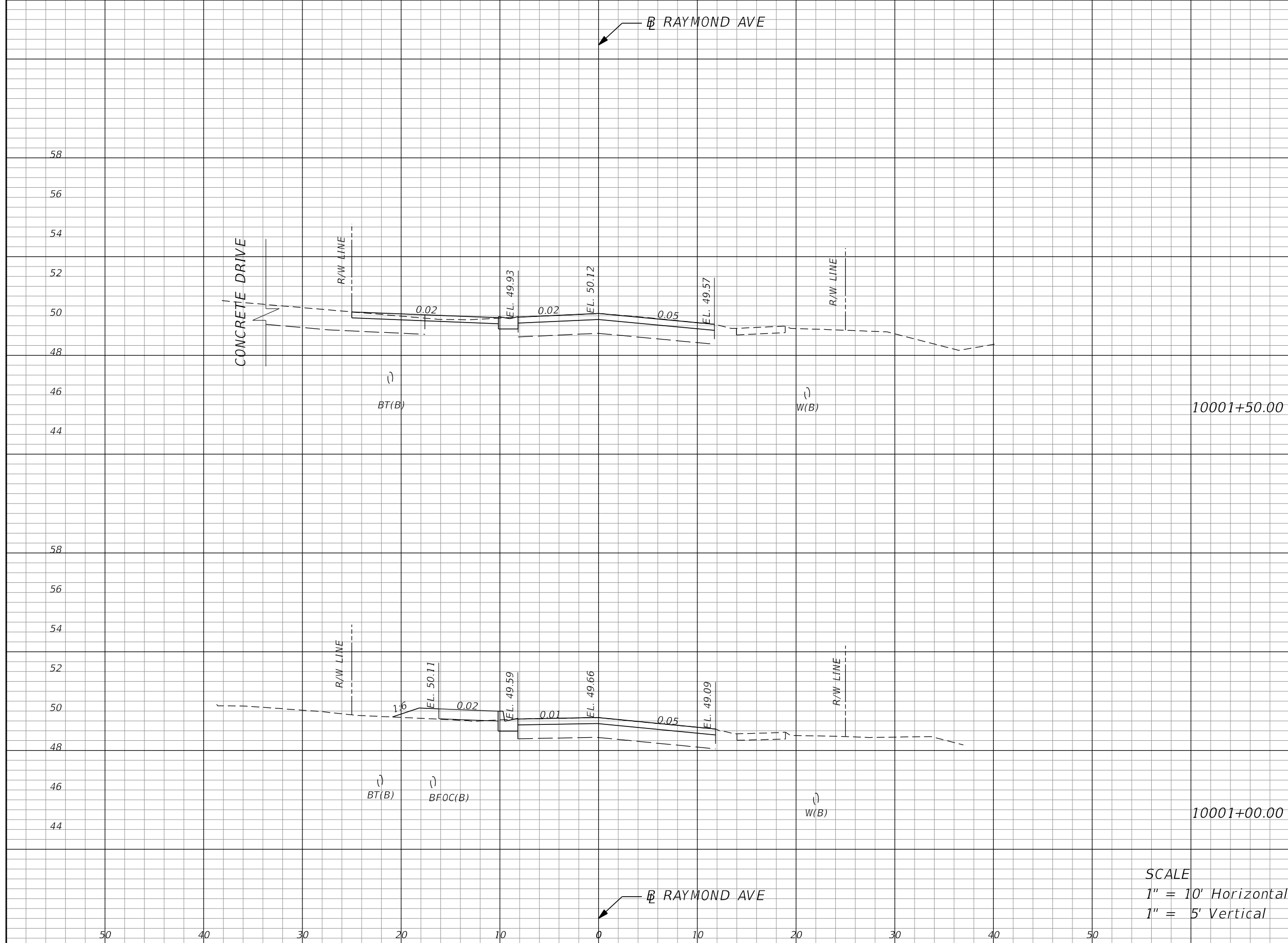


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
143



Regular		Exc.		Embankment	
A	V	A	V	A	V
			4.22		0.70
2.29		0			
			3.25		1.76
1.22		1.90			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

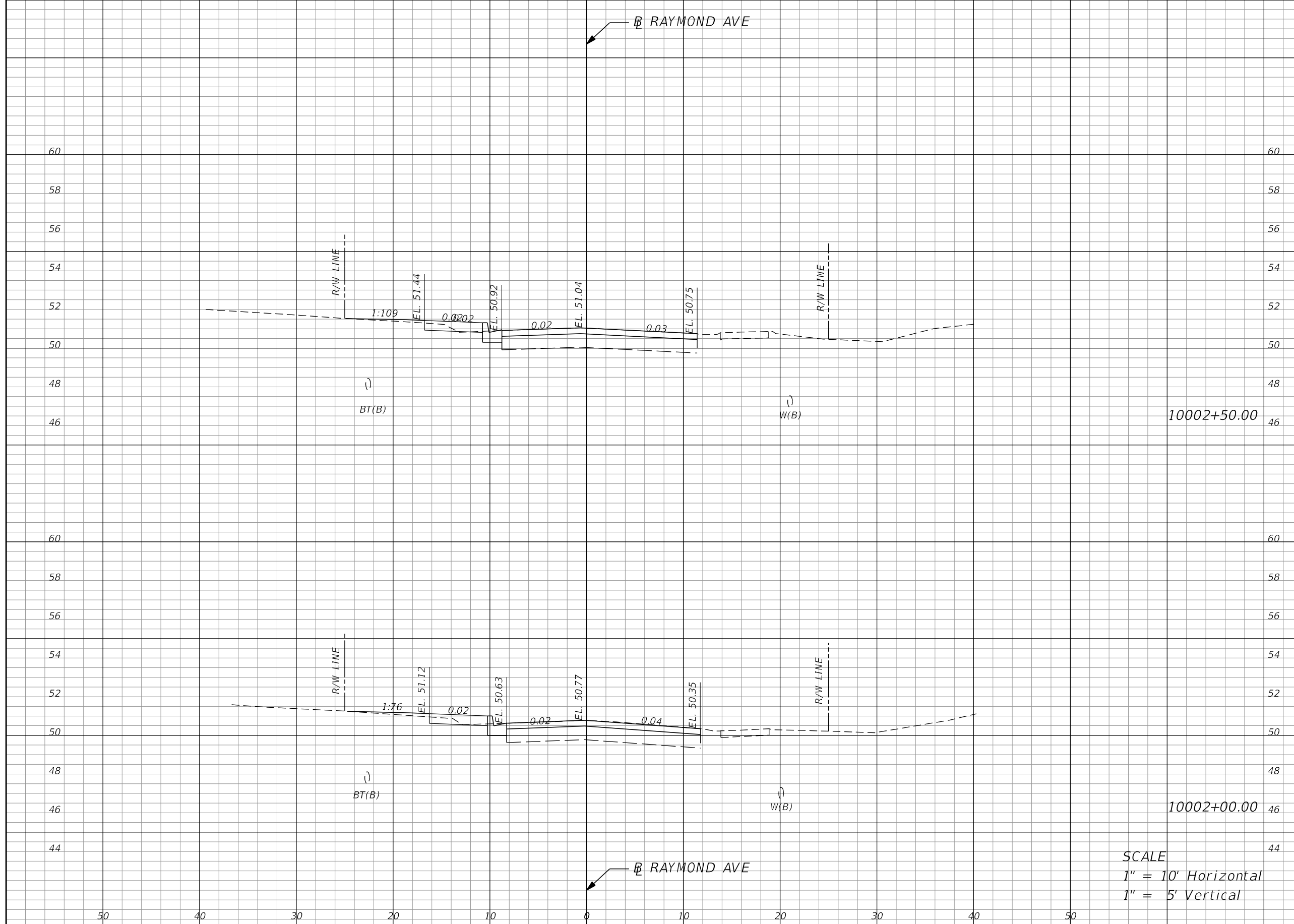


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 144



Regular		Exc.		Embankment	
A	V	A	V	A	V
			4.12		0.62
2.14				0.62	
			4.07		1.28
2.26				0.76	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

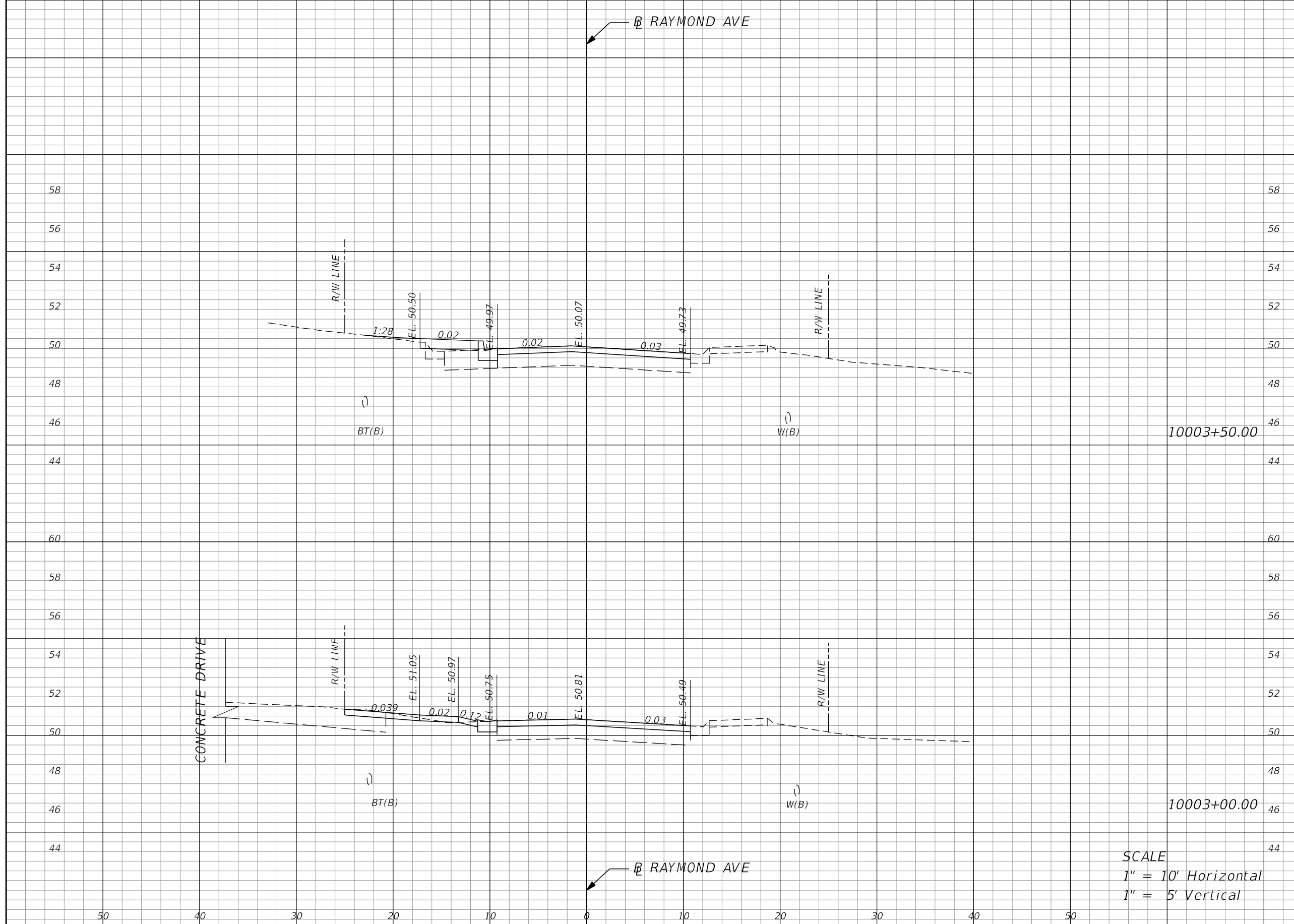


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 145



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.26		10.87
0.17				5.92	
	2.30				5.52
2.32				0.04	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

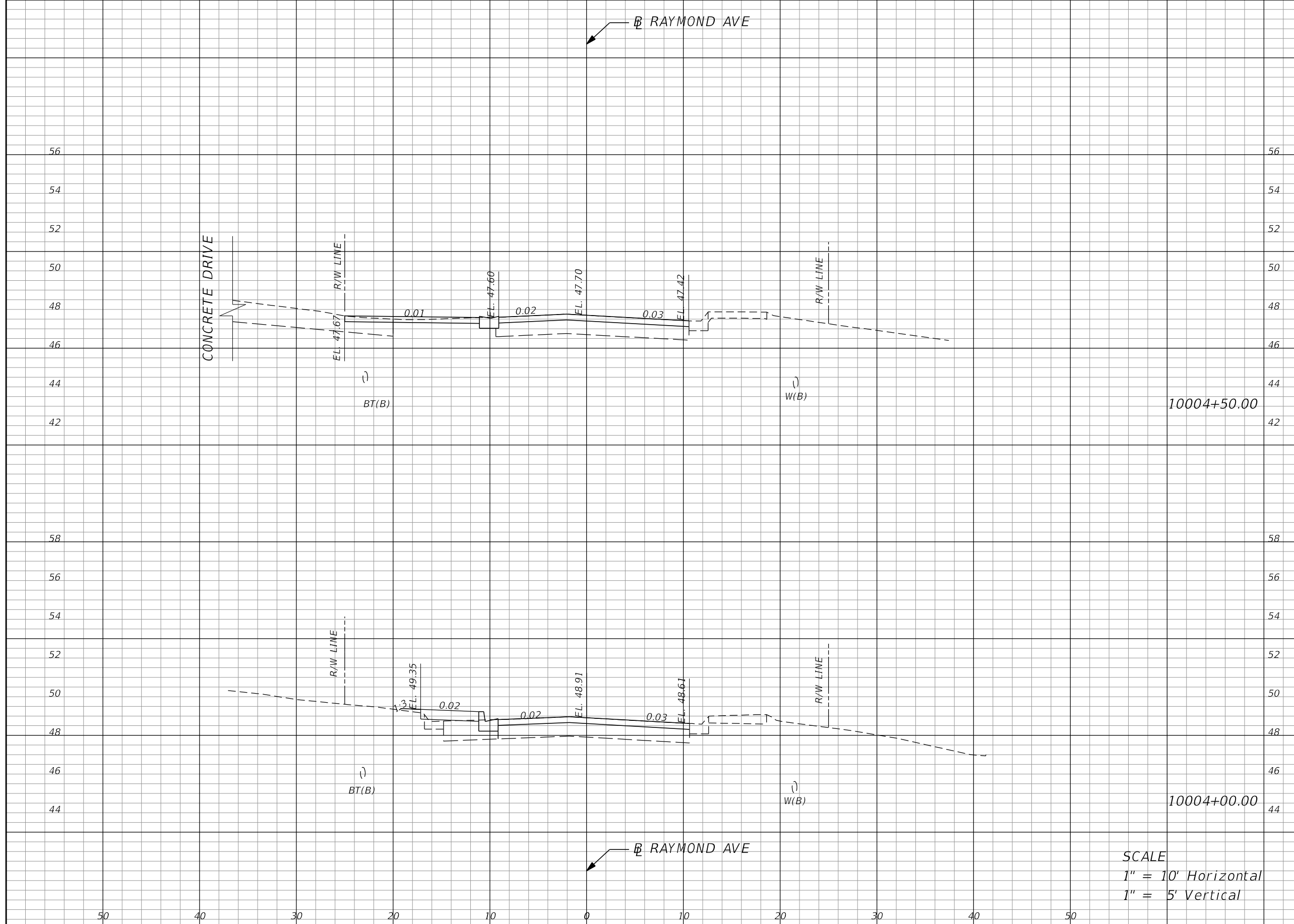


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 146



Regular		Exc.		Embankment	
A	V	A	V	A	V
			3.32		0
2.97			0		
	2.86				5.39
0.12			5.82		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

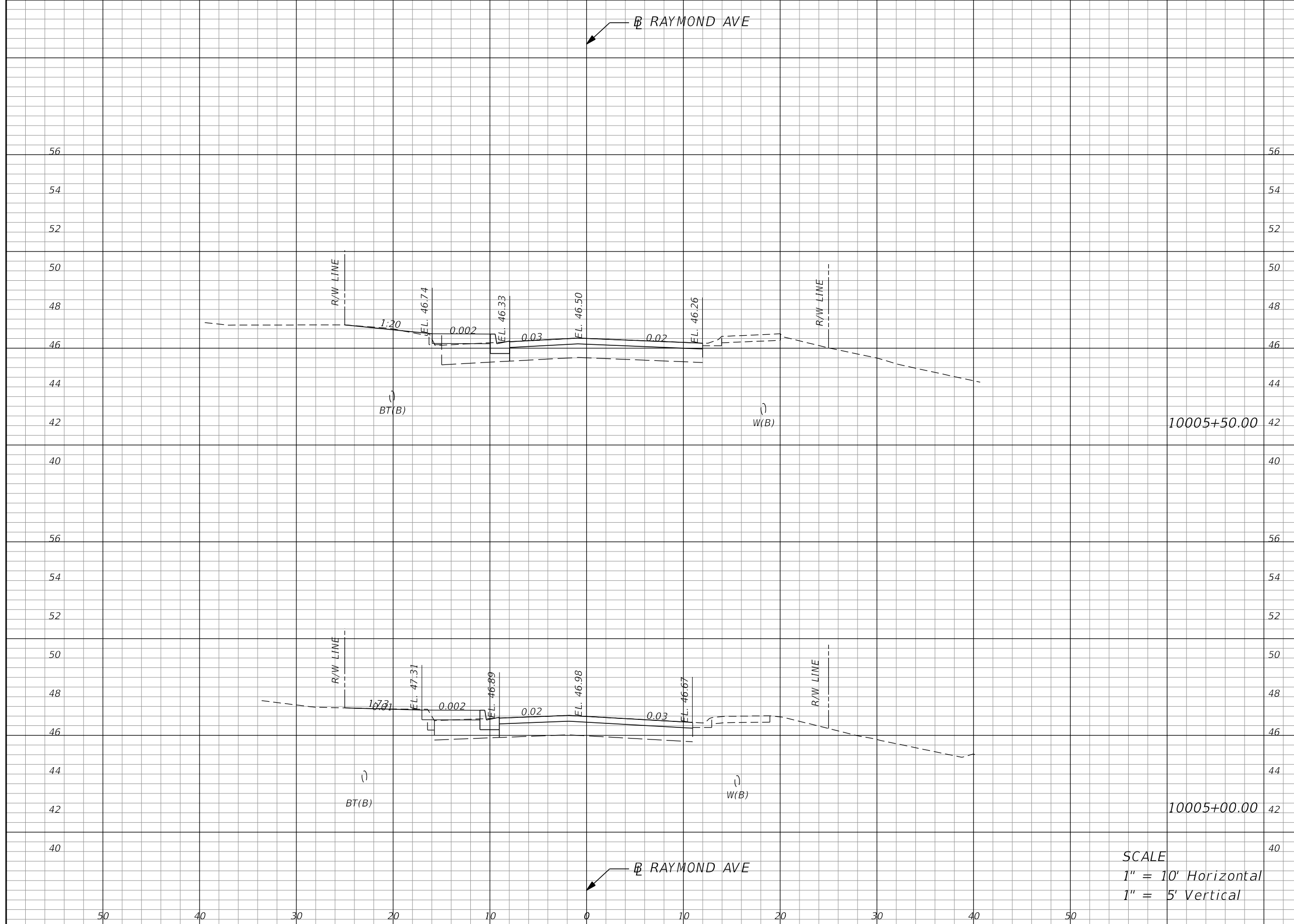


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE I

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

CROSS SECTIONS

SHEET NO.
 147



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.17		18.68
0.17				6.43	
			0.72		5.96
0.61				0	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



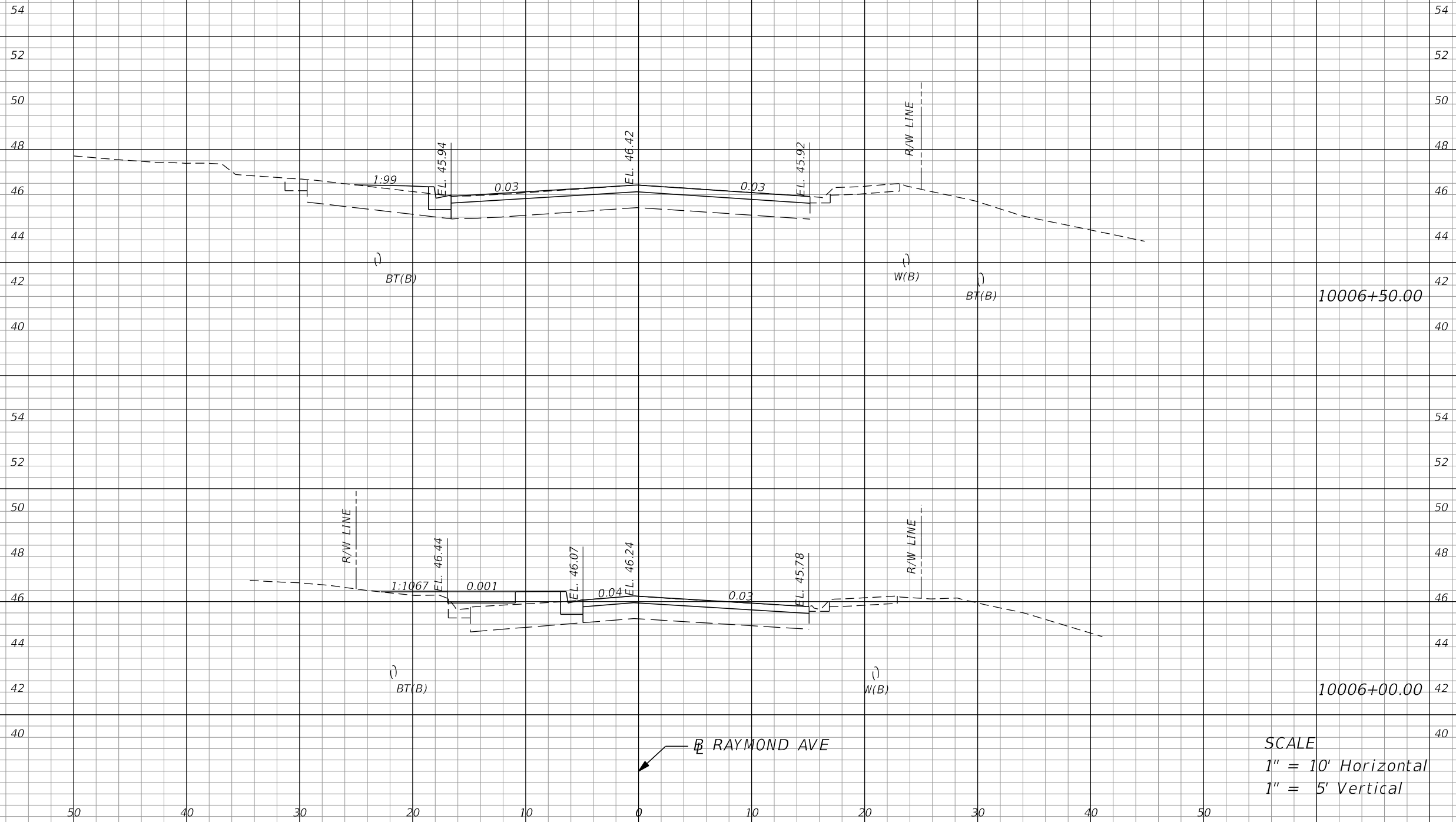
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 148

RAYMOND AVE



Regular		Exc.		Embankment	
A	V	A	V	A	V
	0			24.71	
0		13.53			
0.01			25.25		
0.01		13.75			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

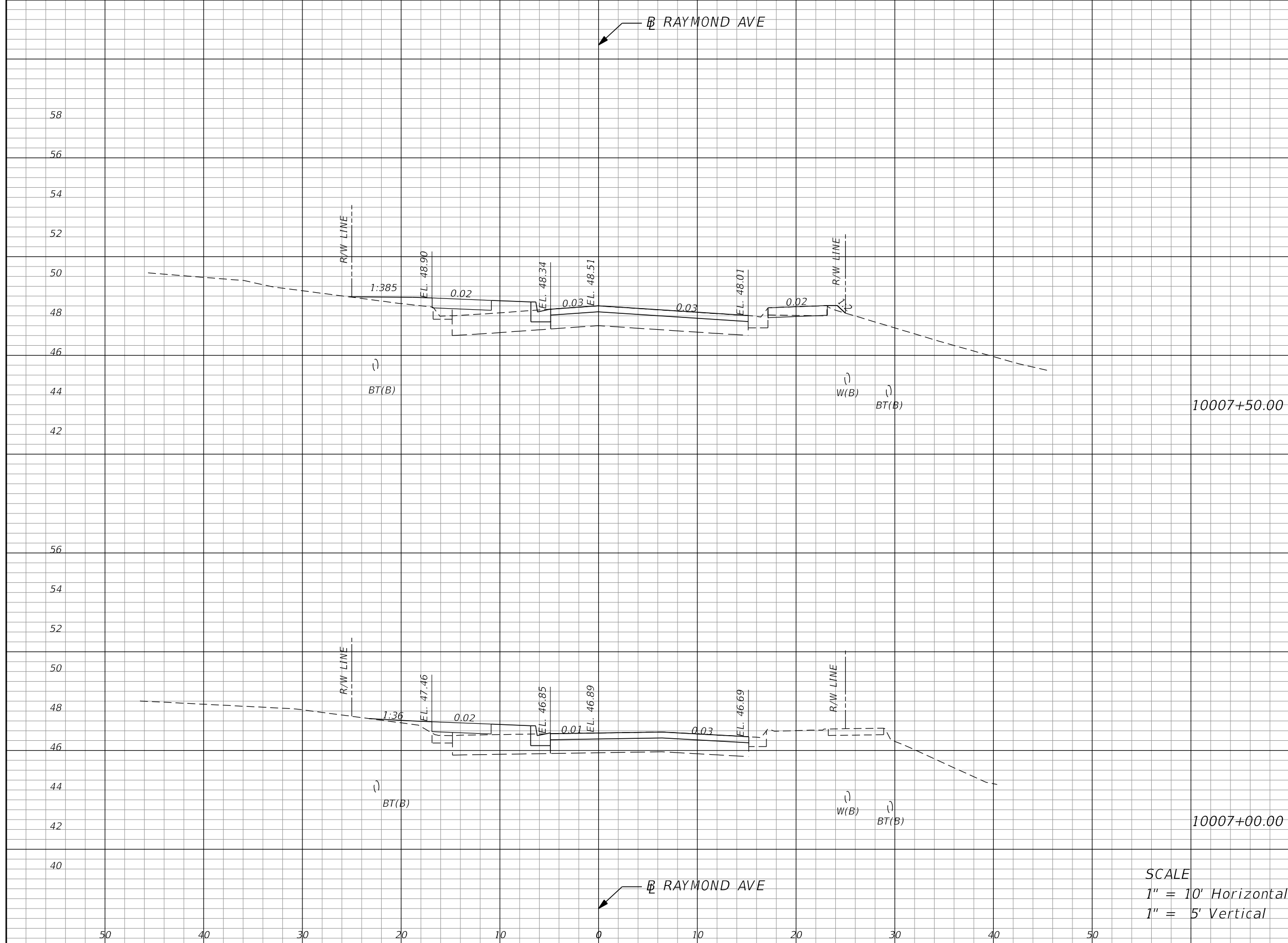


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
149



Regular		Exc.		Embankment	
A	V	A	V	A	V
			10.27		55.46
0.34				15.48	
	0.31				26.52
0				13.16	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



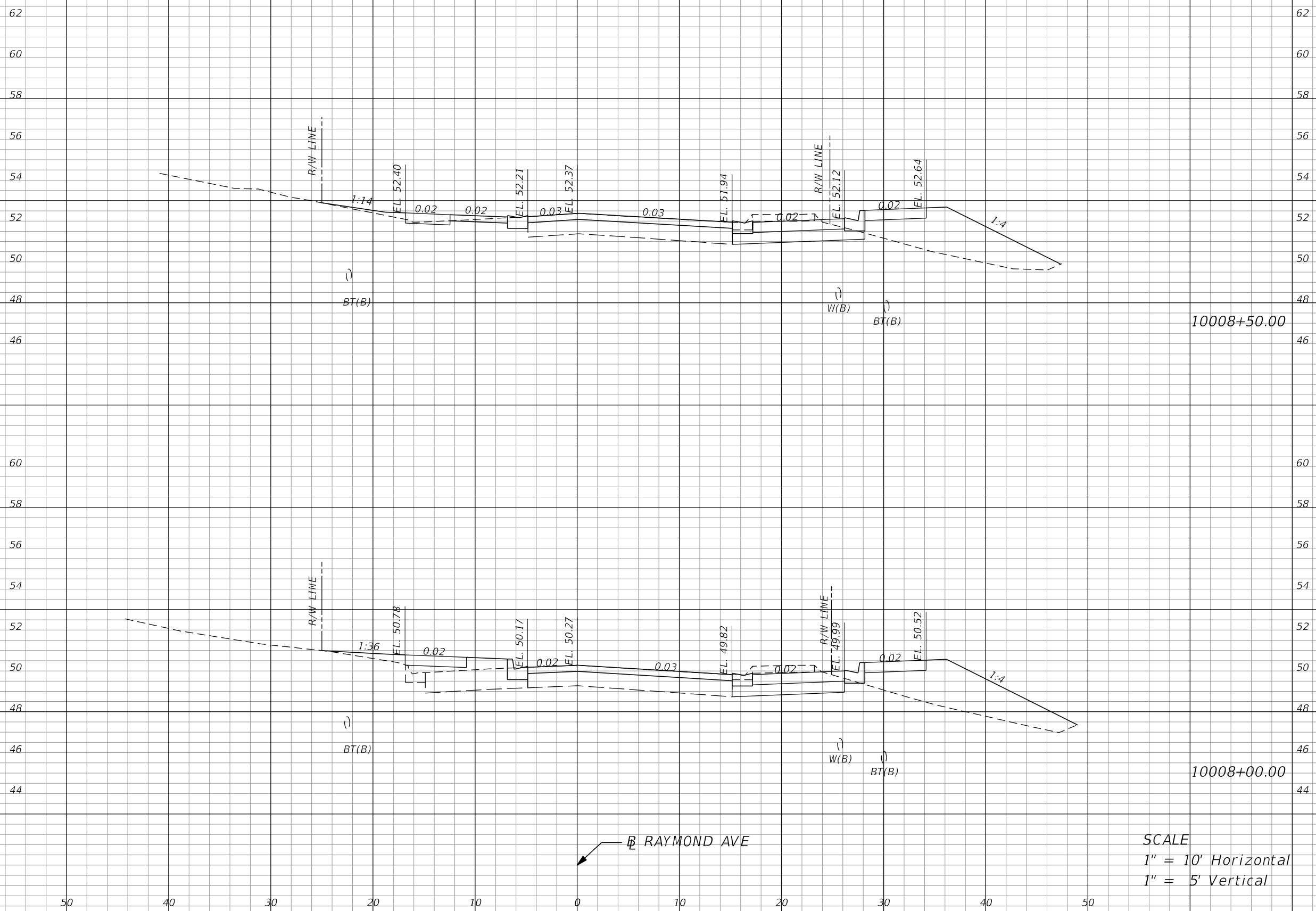
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 150

RAYMOND AVE



Regular		Exc.		Embankment	
A	V	A	V	A	V
			15.15		26.84
13.45				27.83	
			22.41		66.90
10.76				44.42	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

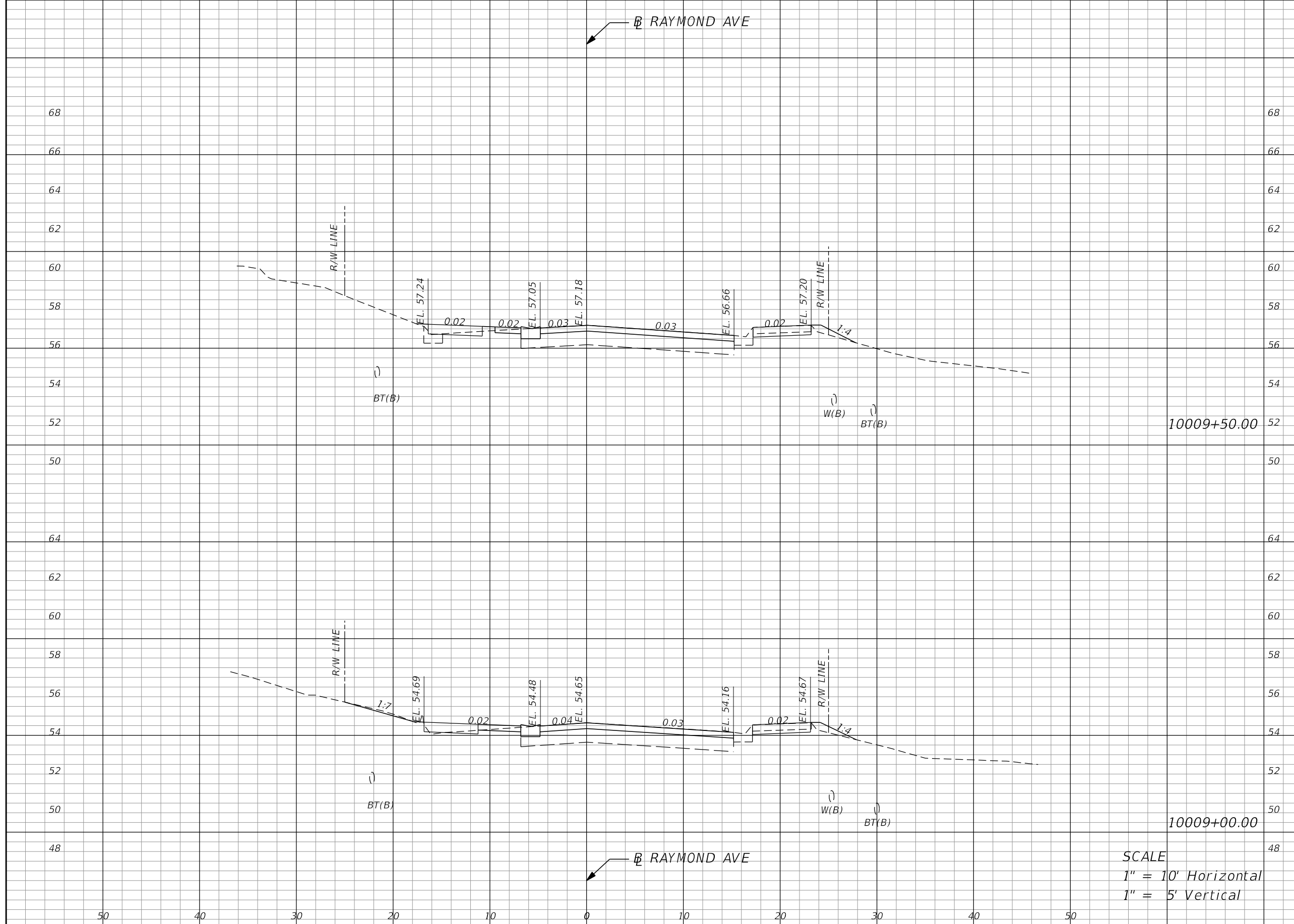


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
151



Regular		Exc.		Embankment	
A	V	A	V	A	V
			13.88		31.52
2.02				2.44	
			4.57		3.34
2.91				1.16	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

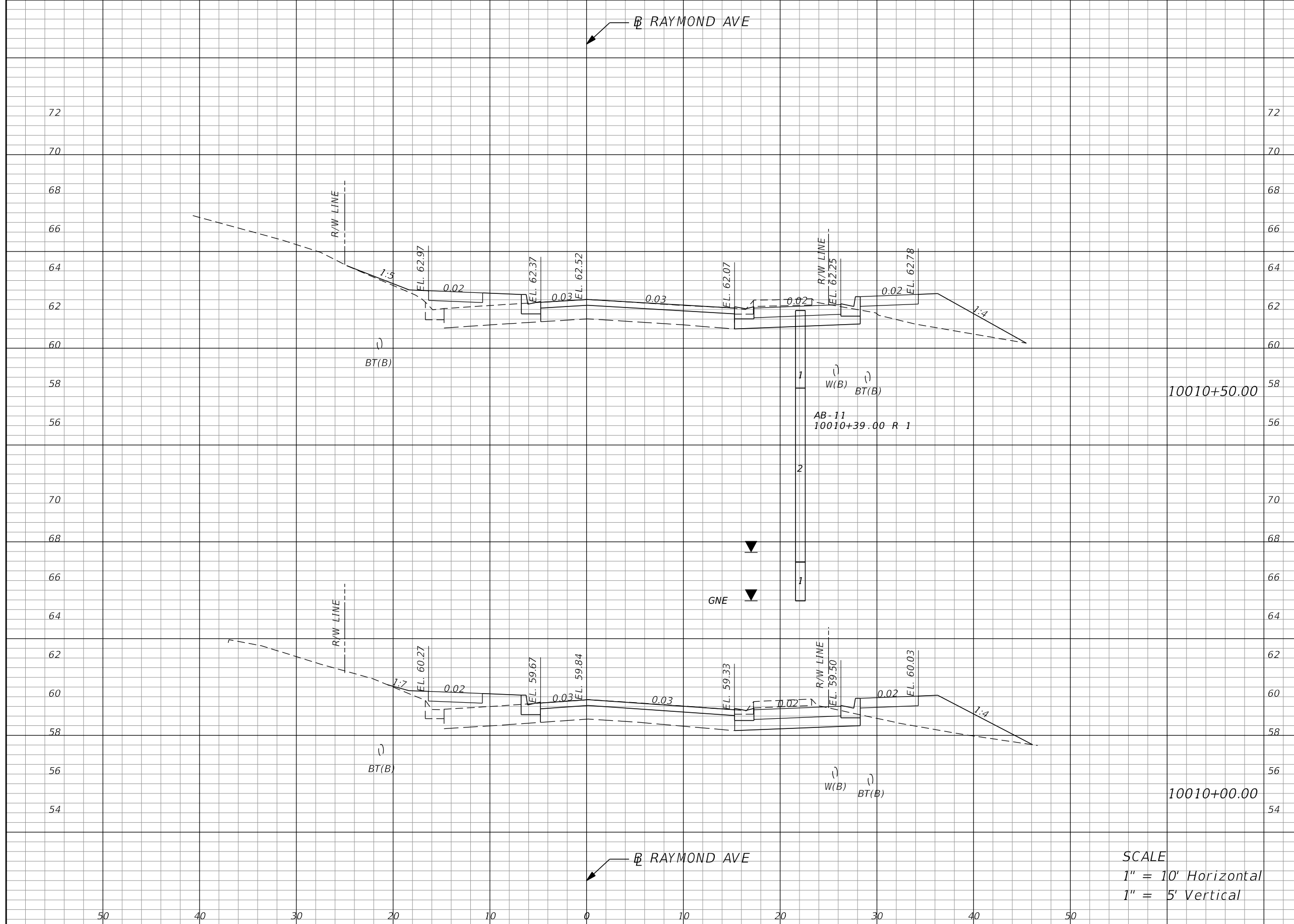


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
152



Regular		Exc.		Embankment	
A	V	A	V	A	V
	12.67			43.56	
13.06		30.56			
	24.10			57.55	
12.97		31.59			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

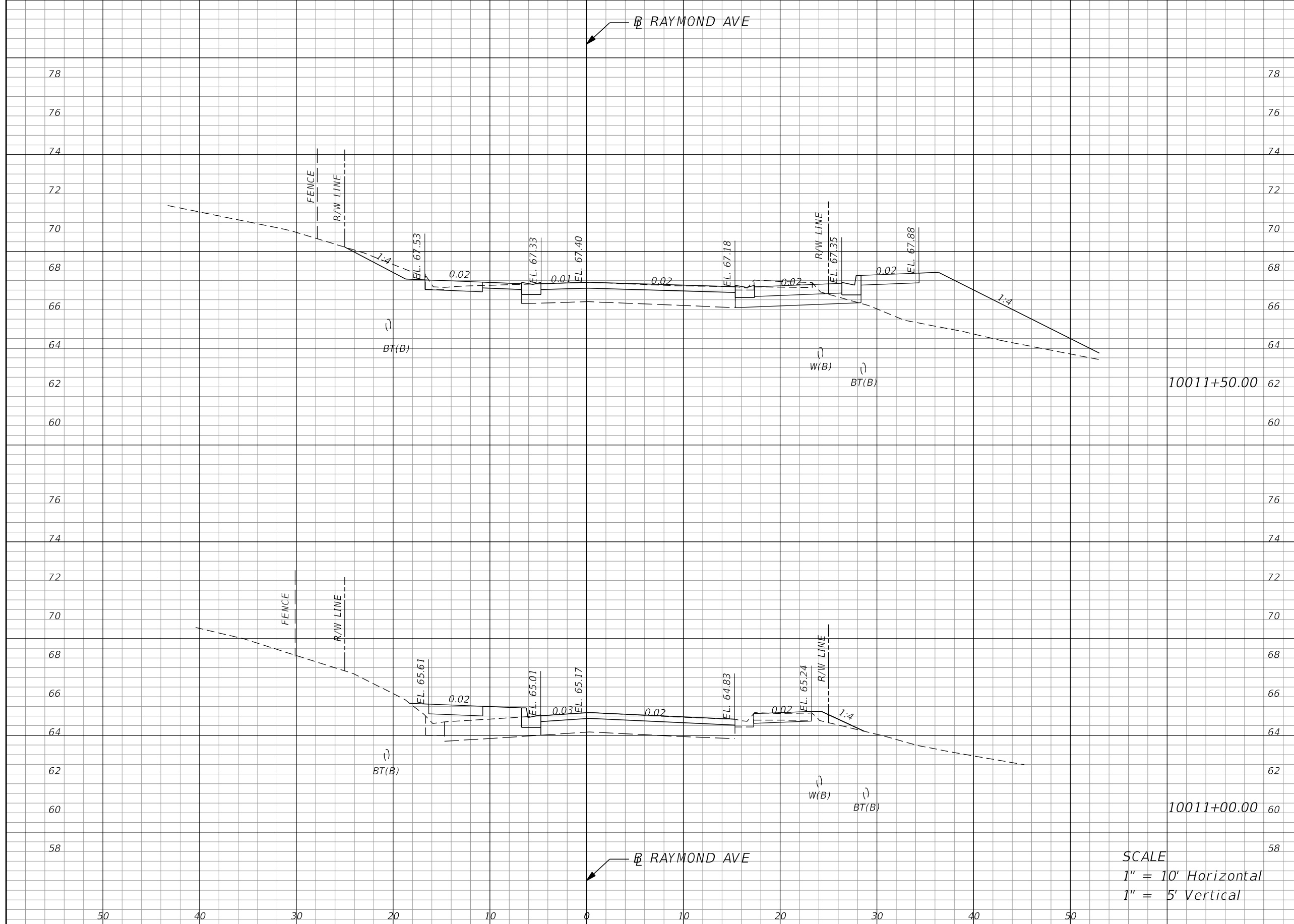


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 153



Regular		Exc.		Embankment	
A	V	A	V	A	V
			21.14		89.77
14.21				42.42	
		13.73			54.54
0.63				16.49	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

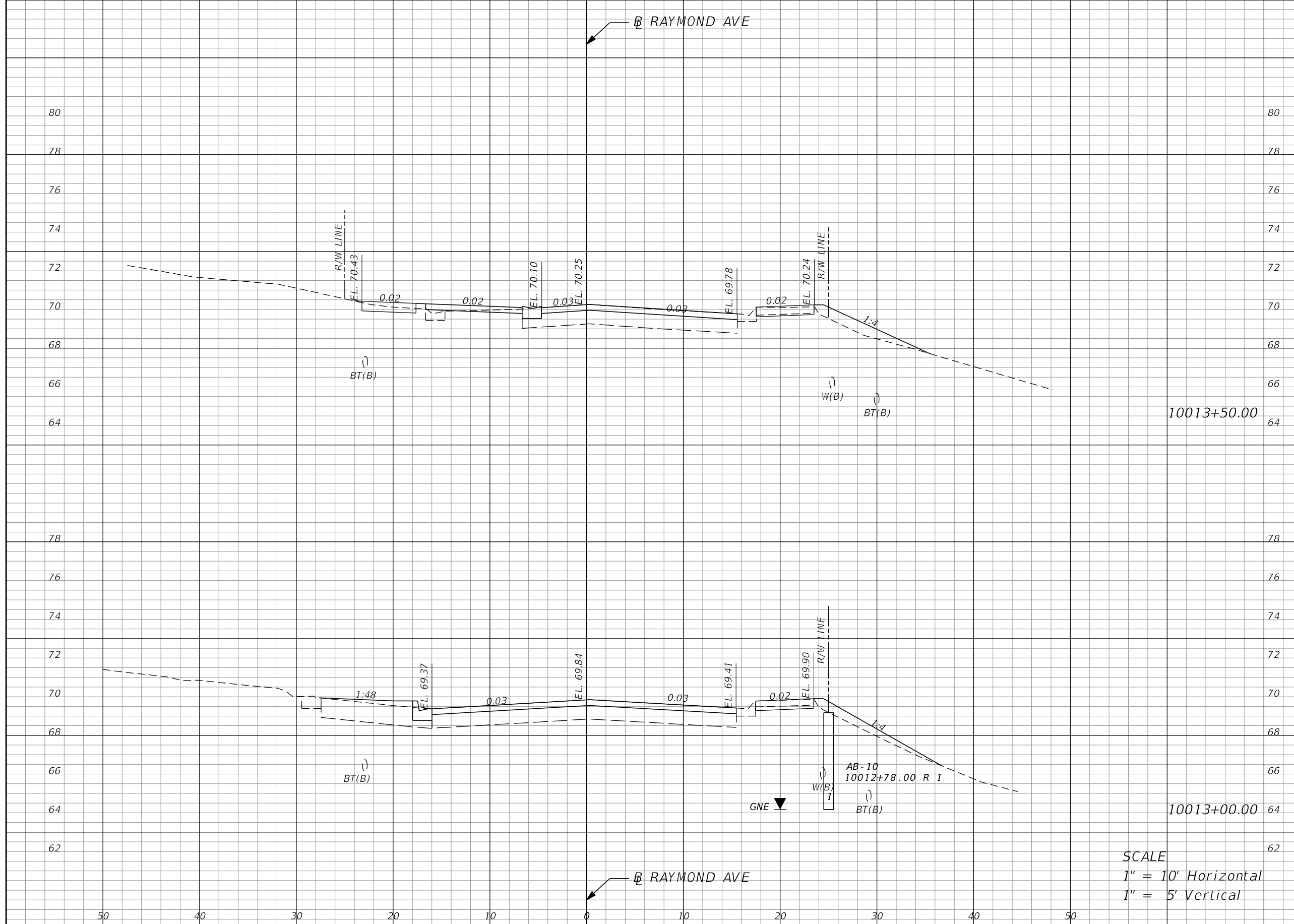


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
154



Regular		Exc.		Embankment	
A	V	A	V	A	V
			4.06		27.50
3.83				6.41	
	4.54				22.01
1.08				17.36	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



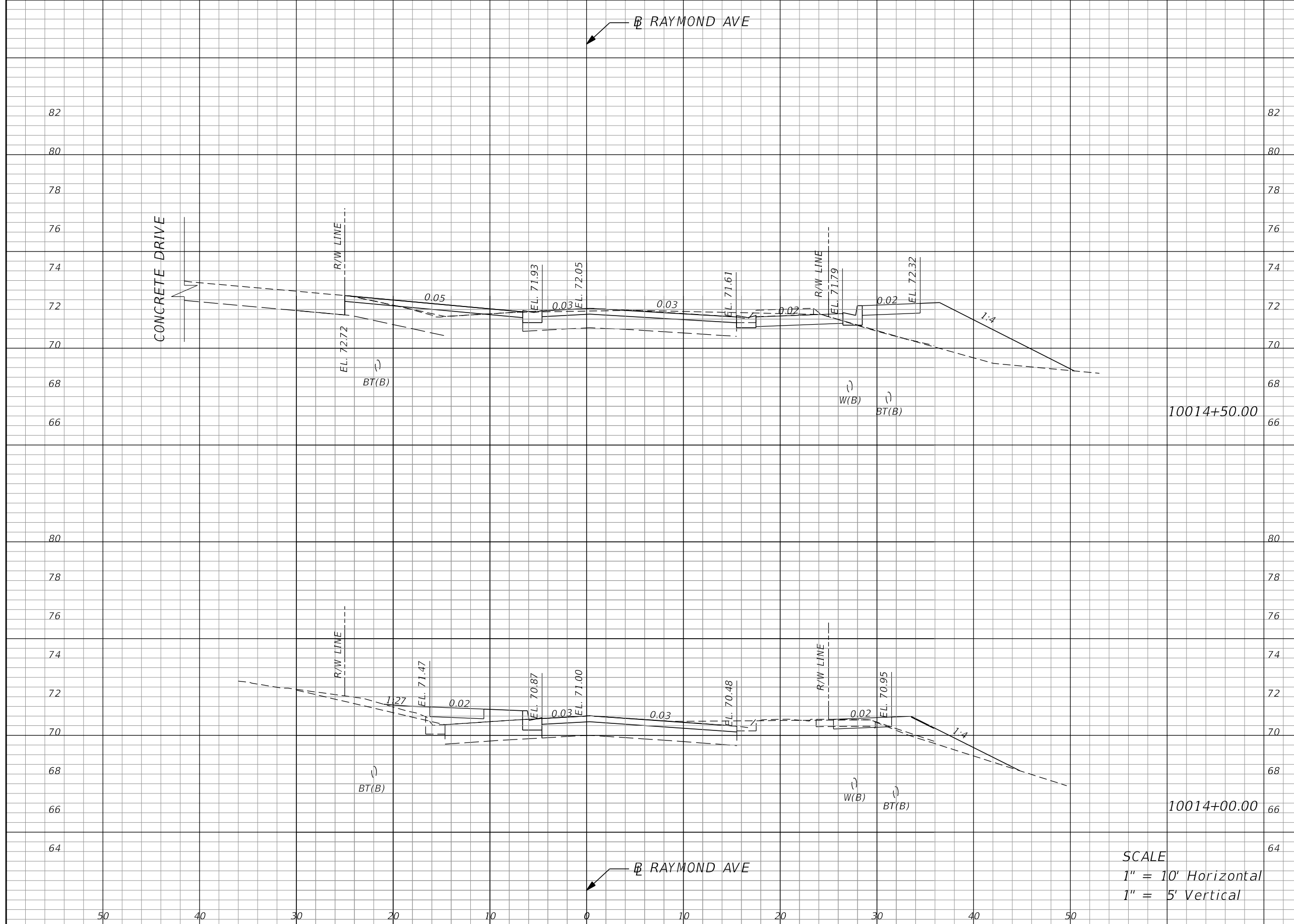
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

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

CROSS SECTIONS

SHEET NO.
 156



Regular		Exc.		Embankment	
A	V	A	V	A	V
			7.37		43.46
6.49				31.37	
			6.53		50.42
0.56				23.29	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



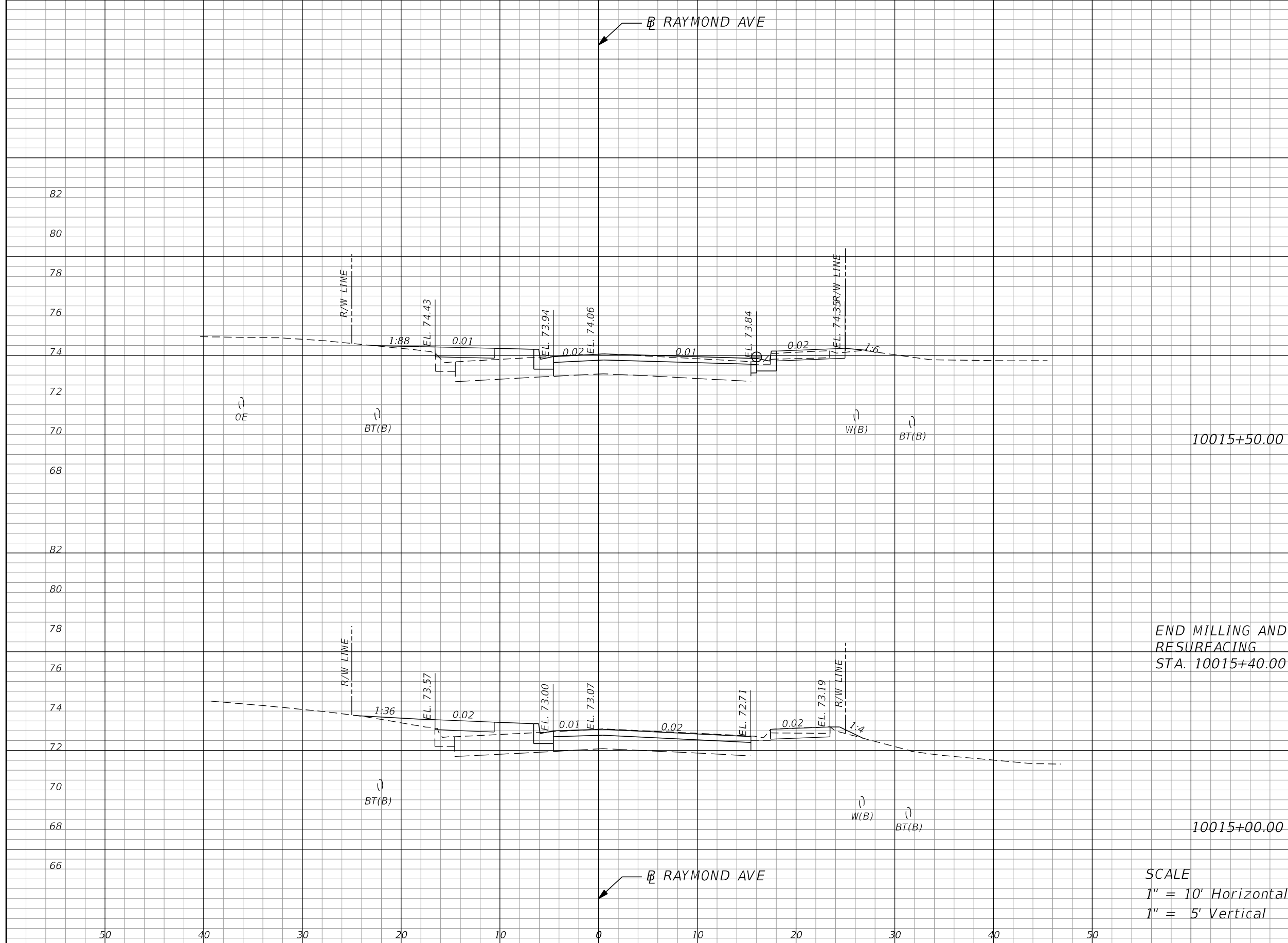
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

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

CROSS SECTIONS

SHEET NO.
 157



Regular		Exc.		Embankment	
A	V	A	V	A	V
			25.21		27.67
2.96				13.76	
			4.11		27.34
1.48				15.77	

END MILLING AND
RESURFACING
STA. 10015+40.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

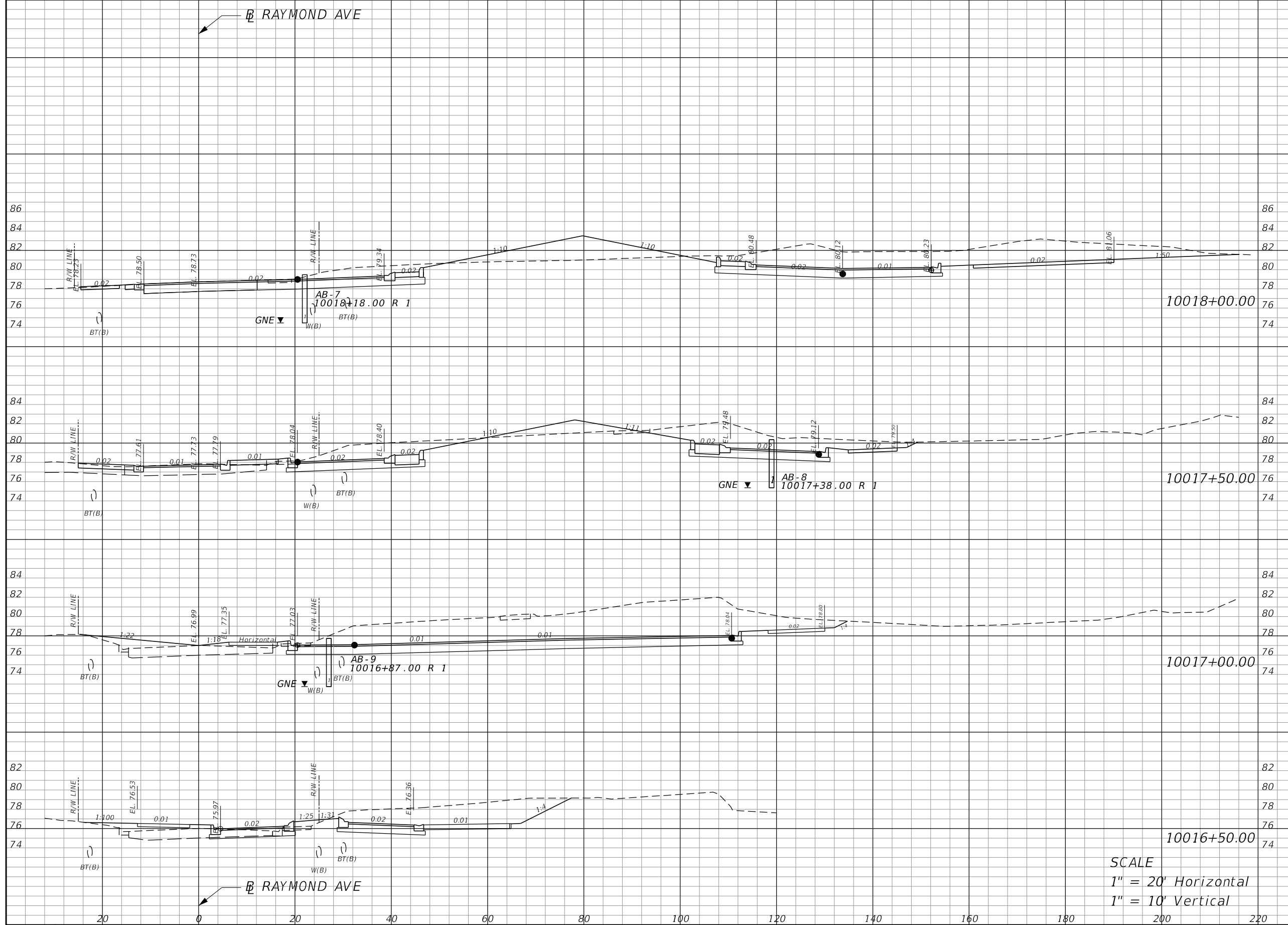


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE I

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

CROSS SECTIONS

SHEET NO.
158



Regular		Exc.		Embankment	
A	V	A	V	A	V
			514.15		140.85
288.01			61.80		
			427.51		76.97
173.70			21.33		
			493.85		59.70
359.66			43.15		
			438.13		68.43
113.53			30.75		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

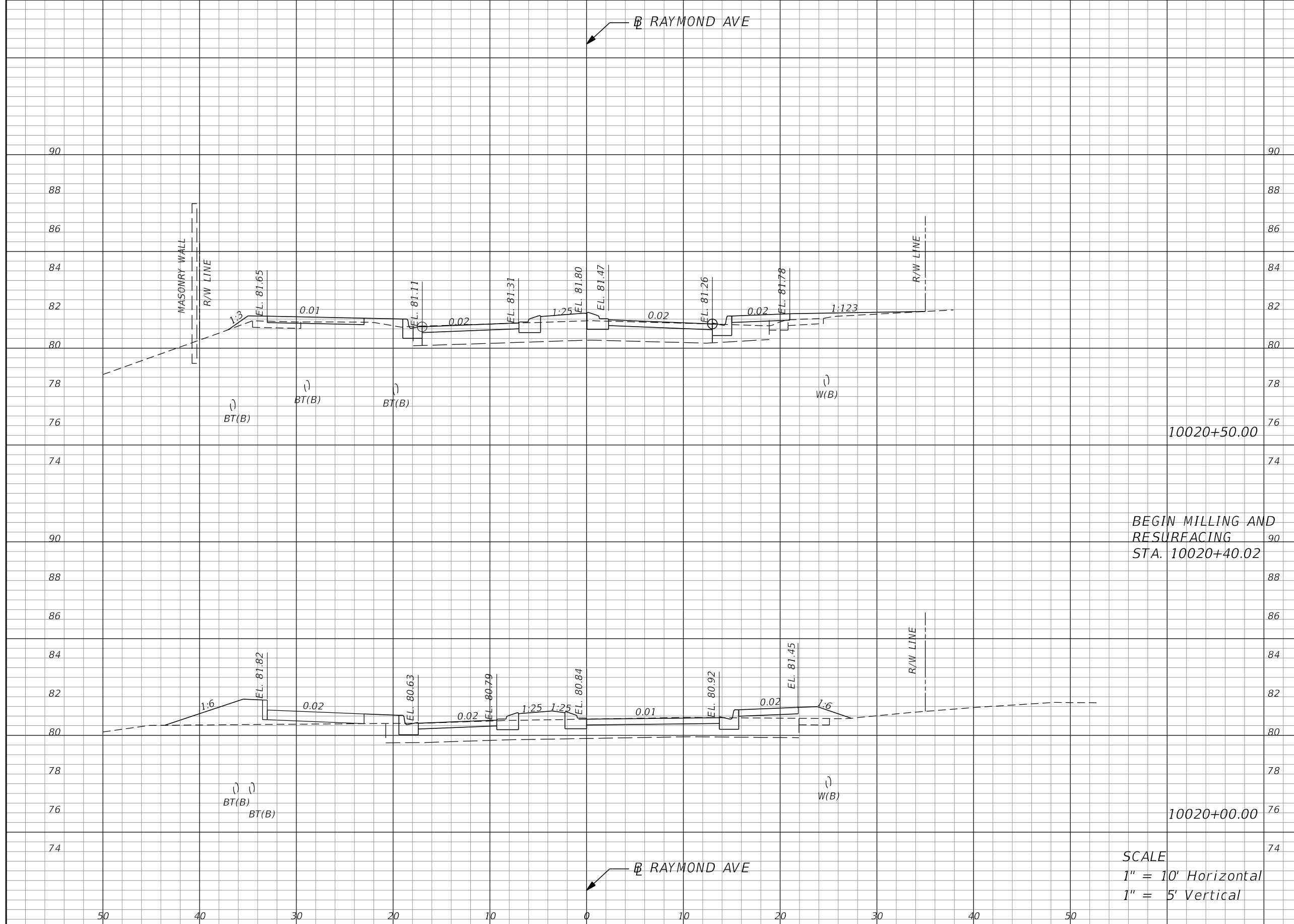
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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

CROSS SECTIONS

SHEET NO.
 160



Regular		Exc.		Embankment	
A	V	A	V	A	V
	8.31			15.62	
1.54				14.11	
		1.43		28.88	
0				17.09	

BEGIN MILLING AND
RESURFACING
STA. 10020+40.02

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
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

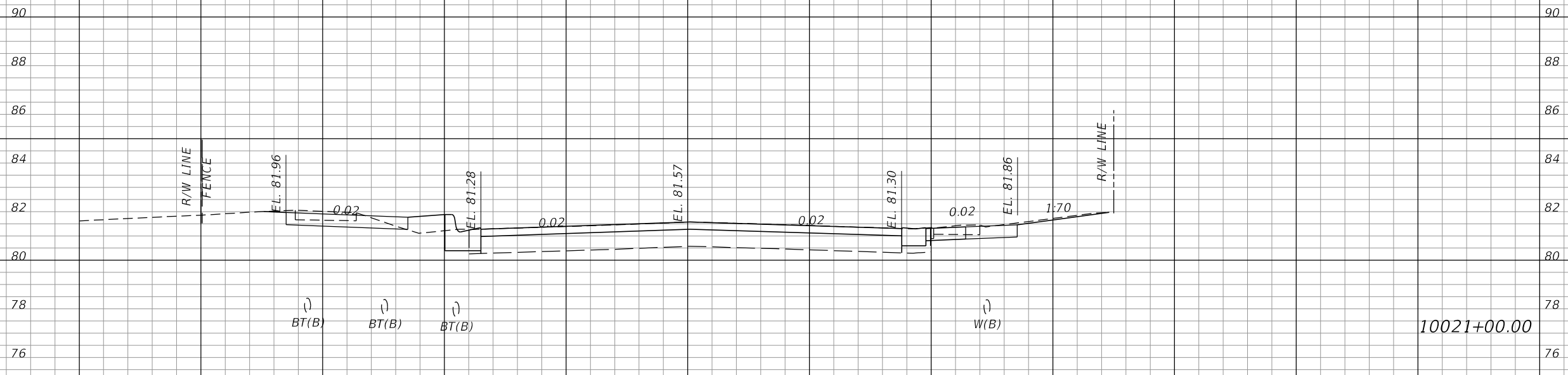
SHEET NO.
162

RAYMOND AVE



10021+50.00

Regular		Exc.		Embankment	
A	V	A	V	A	V
	4.89			22.57	
1.42			11.58		
	8.20			13.28	
7.43			2.76		



10021+00.00

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

RAYMOND AVE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

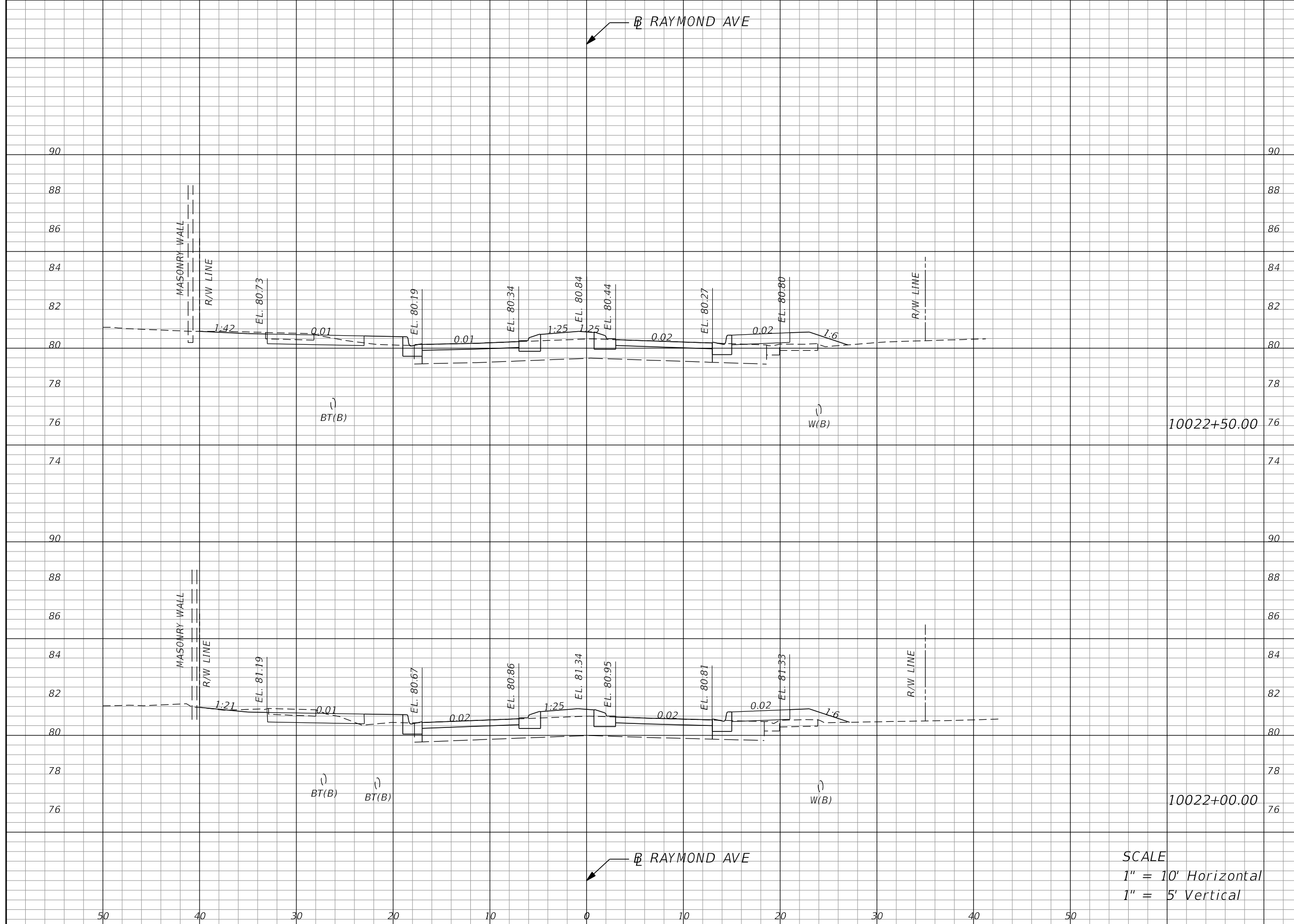


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
163



Regular		Exc.		Embankment	
A	V	A	V	A	V
	5.36			23.50	
3.20			13.33		
	6.53			24.19	
3.85			12.80		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

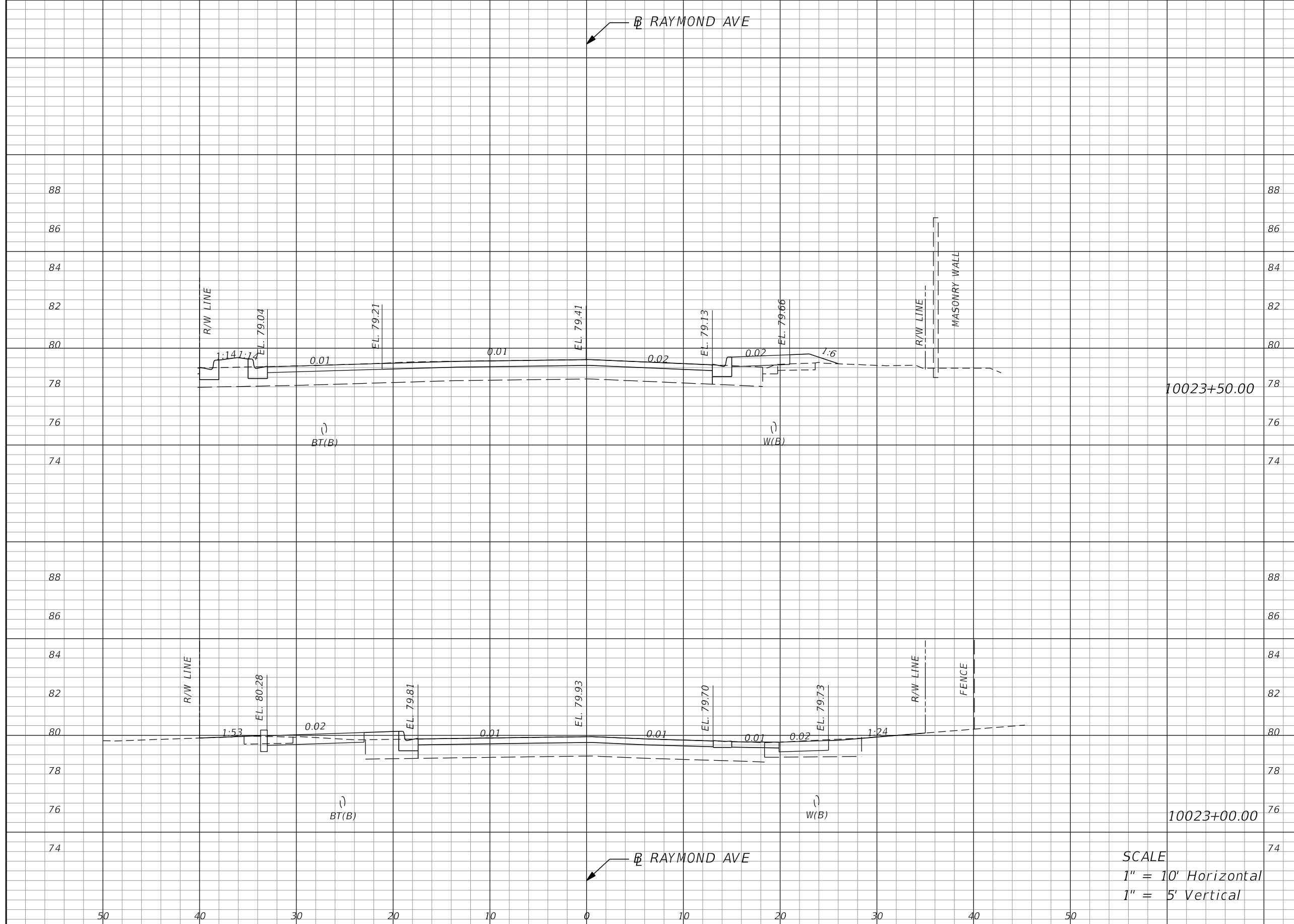


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE I

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

CROSS SECTIONS

SHEET NO.
164



Regular		Exc.		Embankment	
A	V	A	V	A	V
	0			29.85	
0		8.97			
	2.40			19.46	
2.59		12.05			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

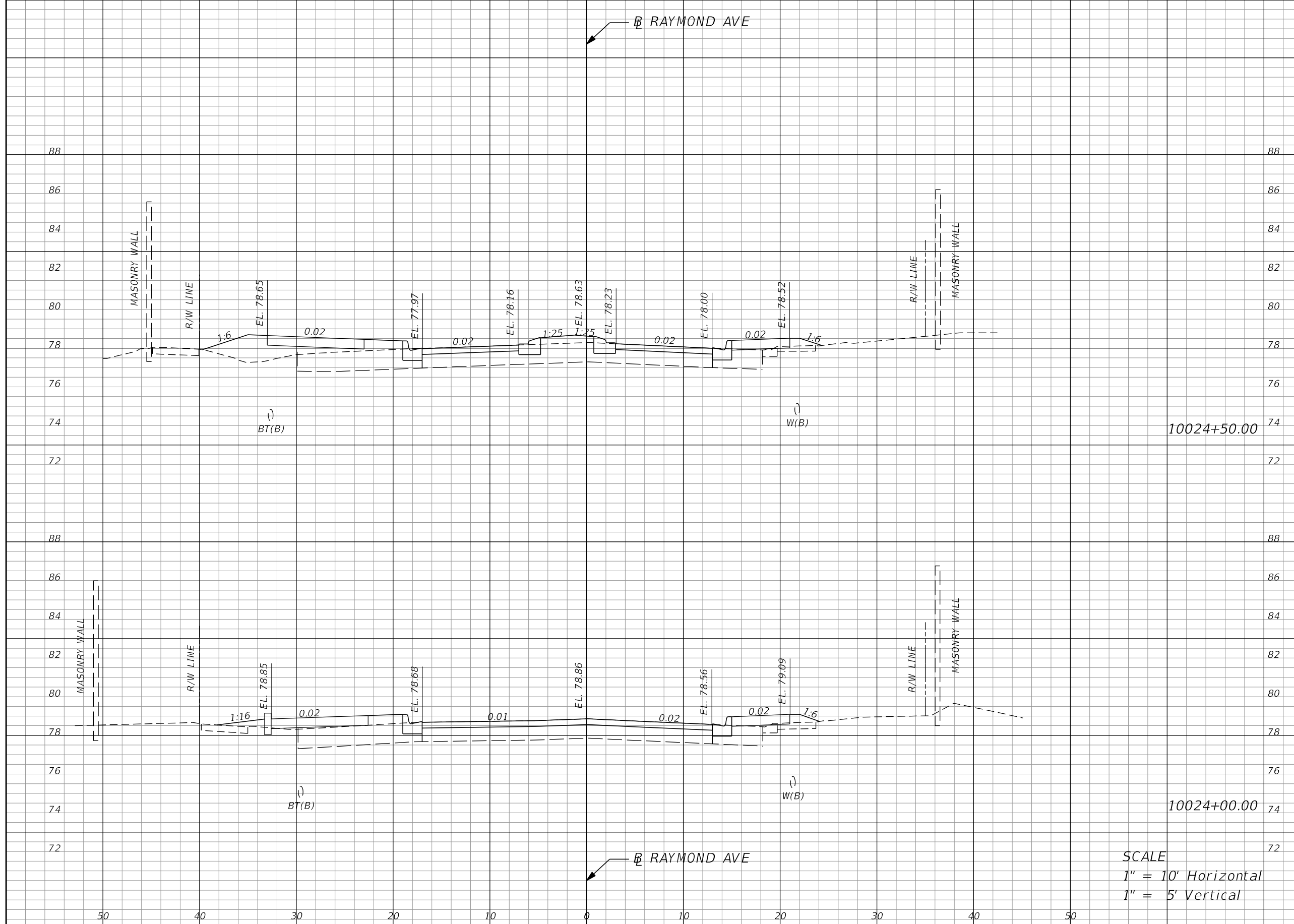


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 165



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.11		65.01
0				33.24	
			0		52.32
0				23.27	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

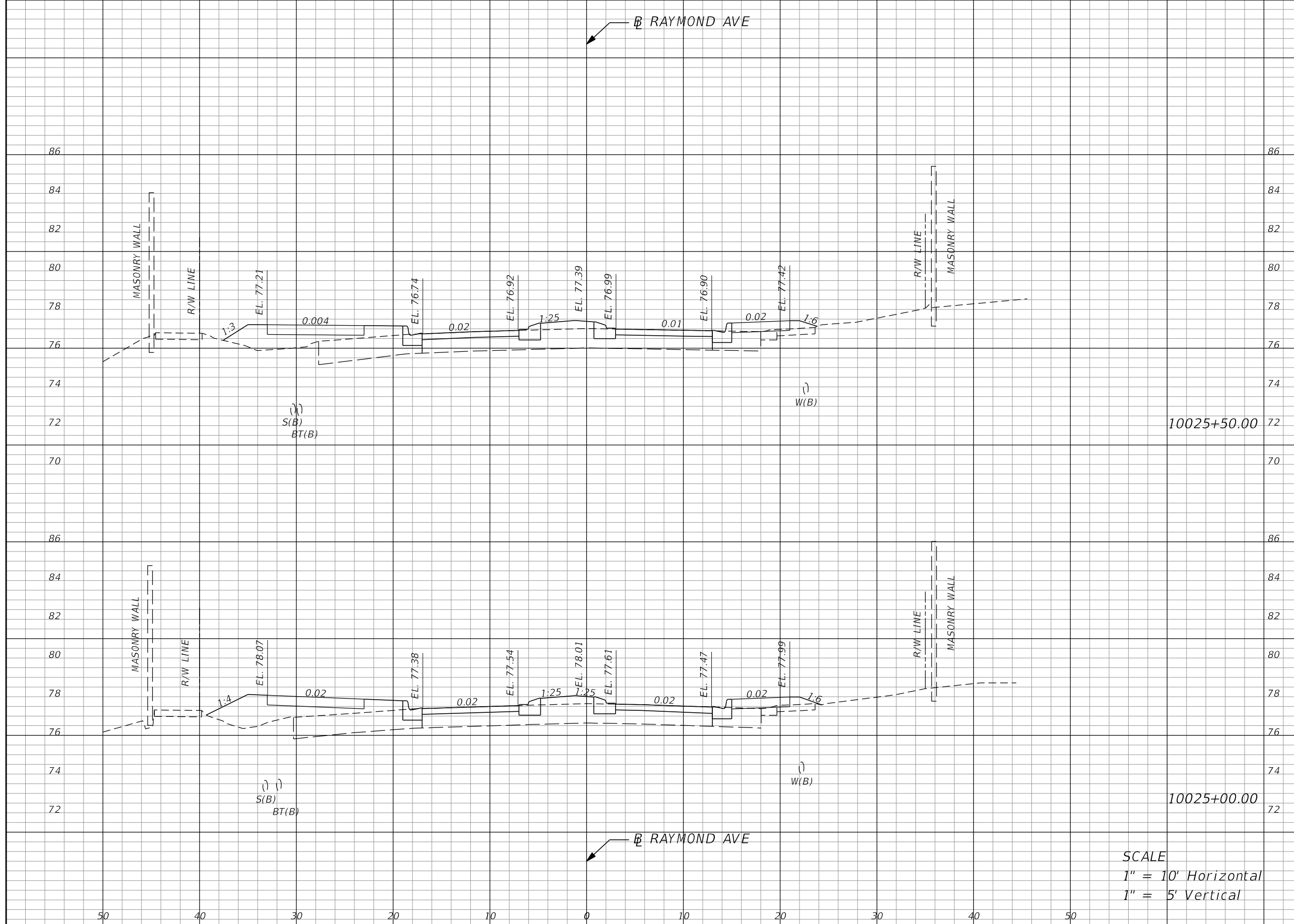


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 166



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0		61.17
		0		31.39	
			0.11		63.30
		0.12		36.97	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

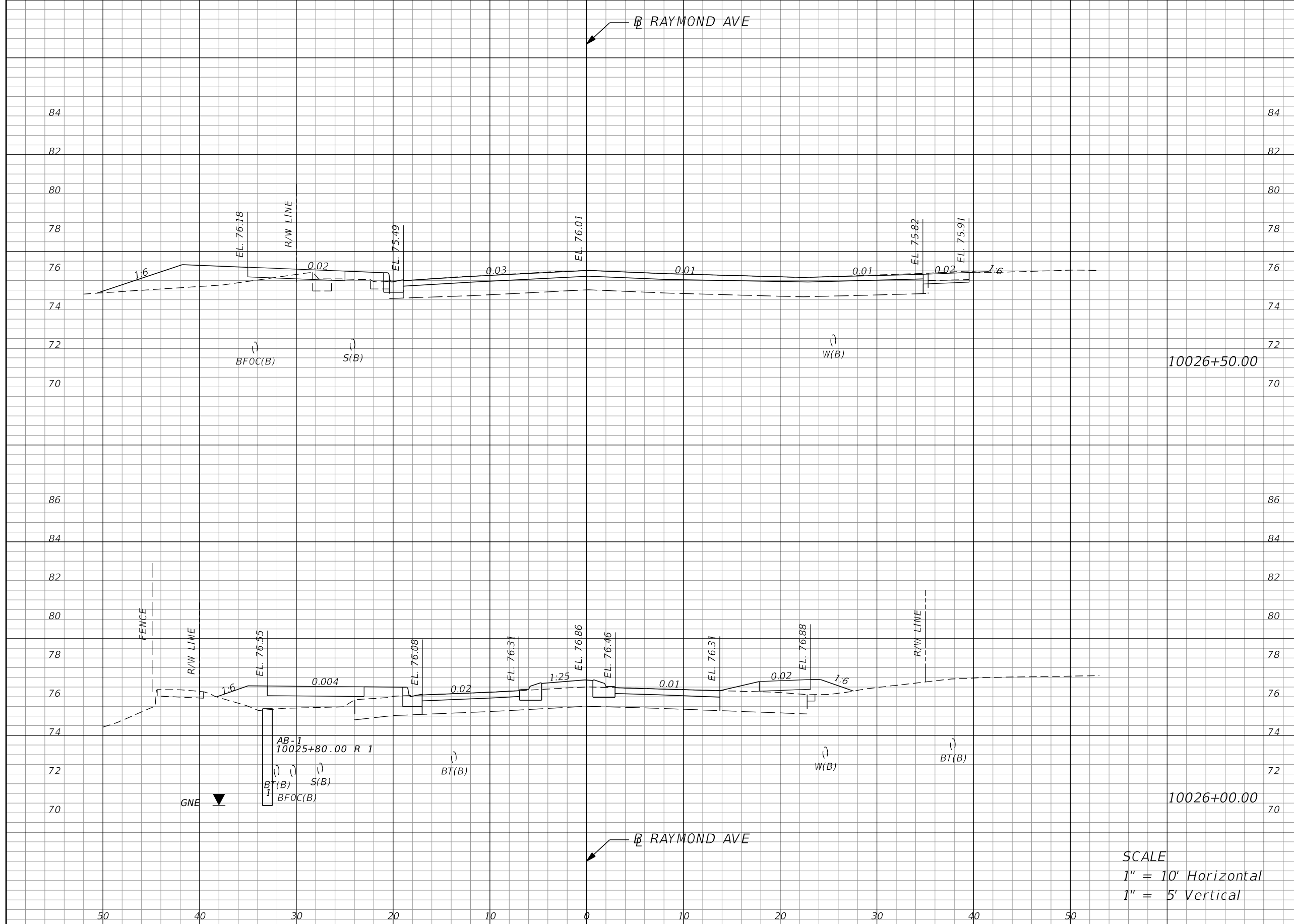


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
167



Regular		Exc.		Embankment	
A	V	A	V	A	V
			9.85		15.09
1.45				16.29	
			1.34		47.19
0				34.67	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

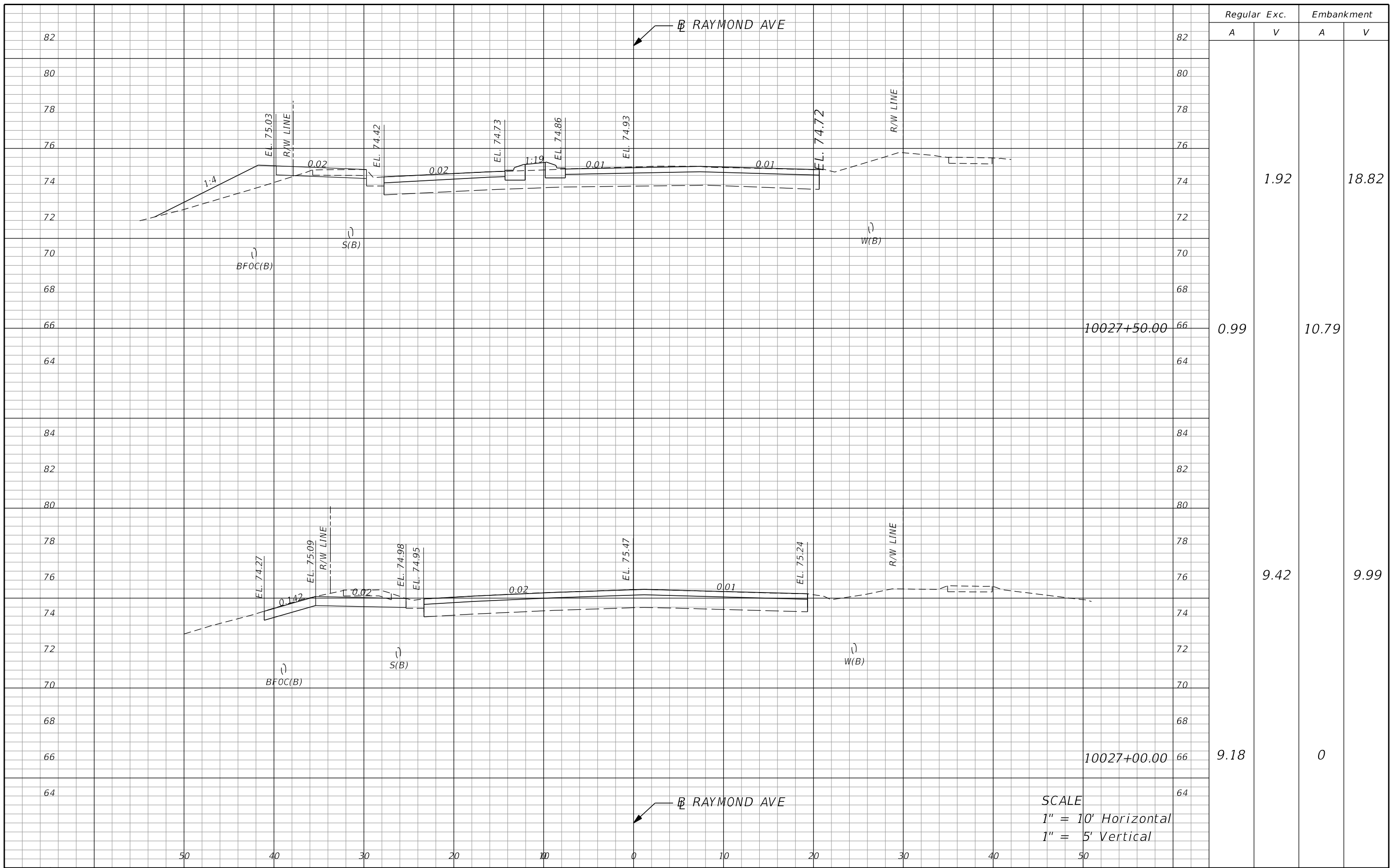


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
168



Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.92		18.82
0.99				10.79	
			9.42		9.99
9.18				0	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

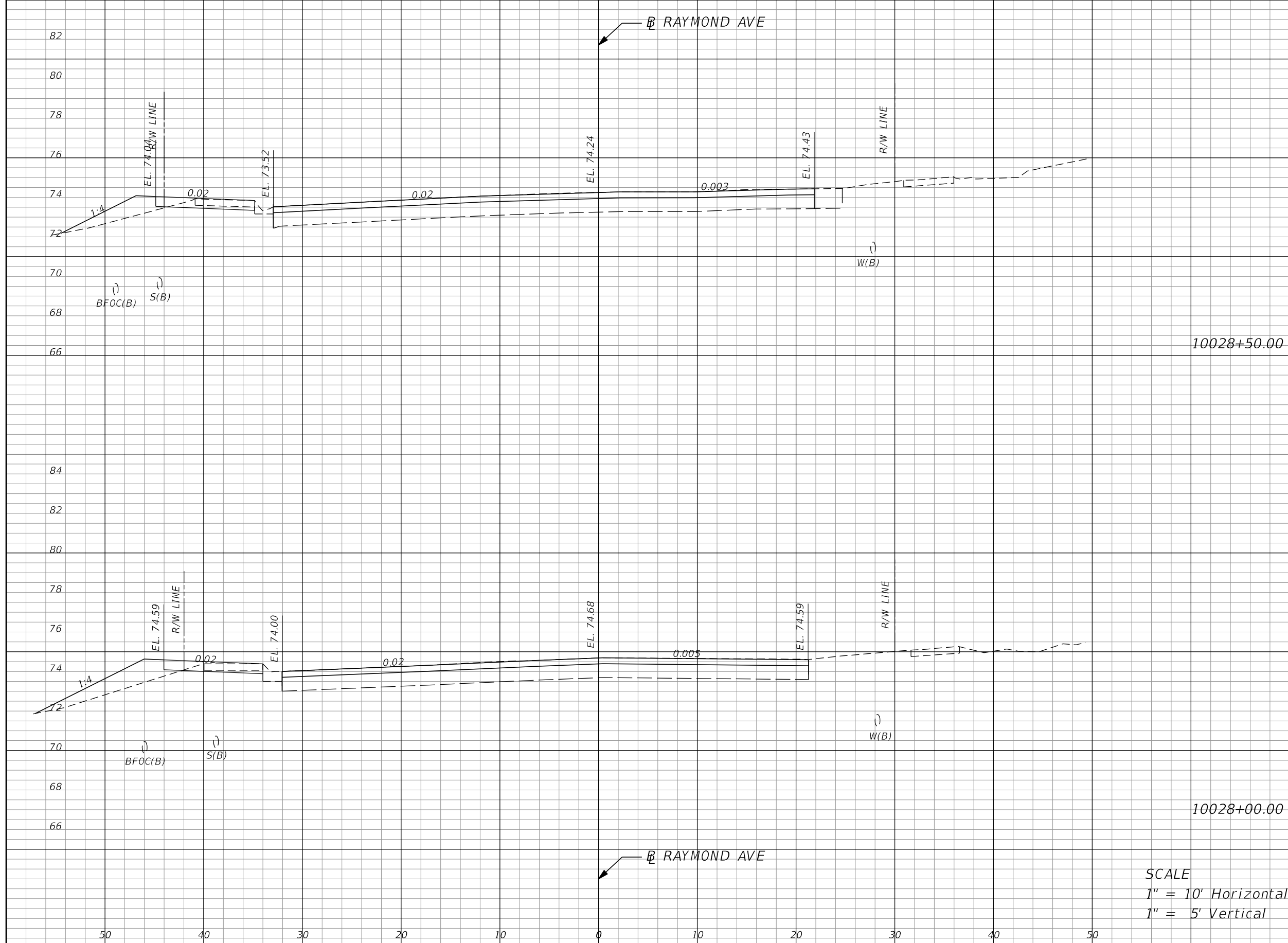


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 169



Regular		Exc.		Embankment	
A	V	A	V	A	V
			3.05		11.77
1.52			8.65		
	2.41				16.85
1.08			9.54		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

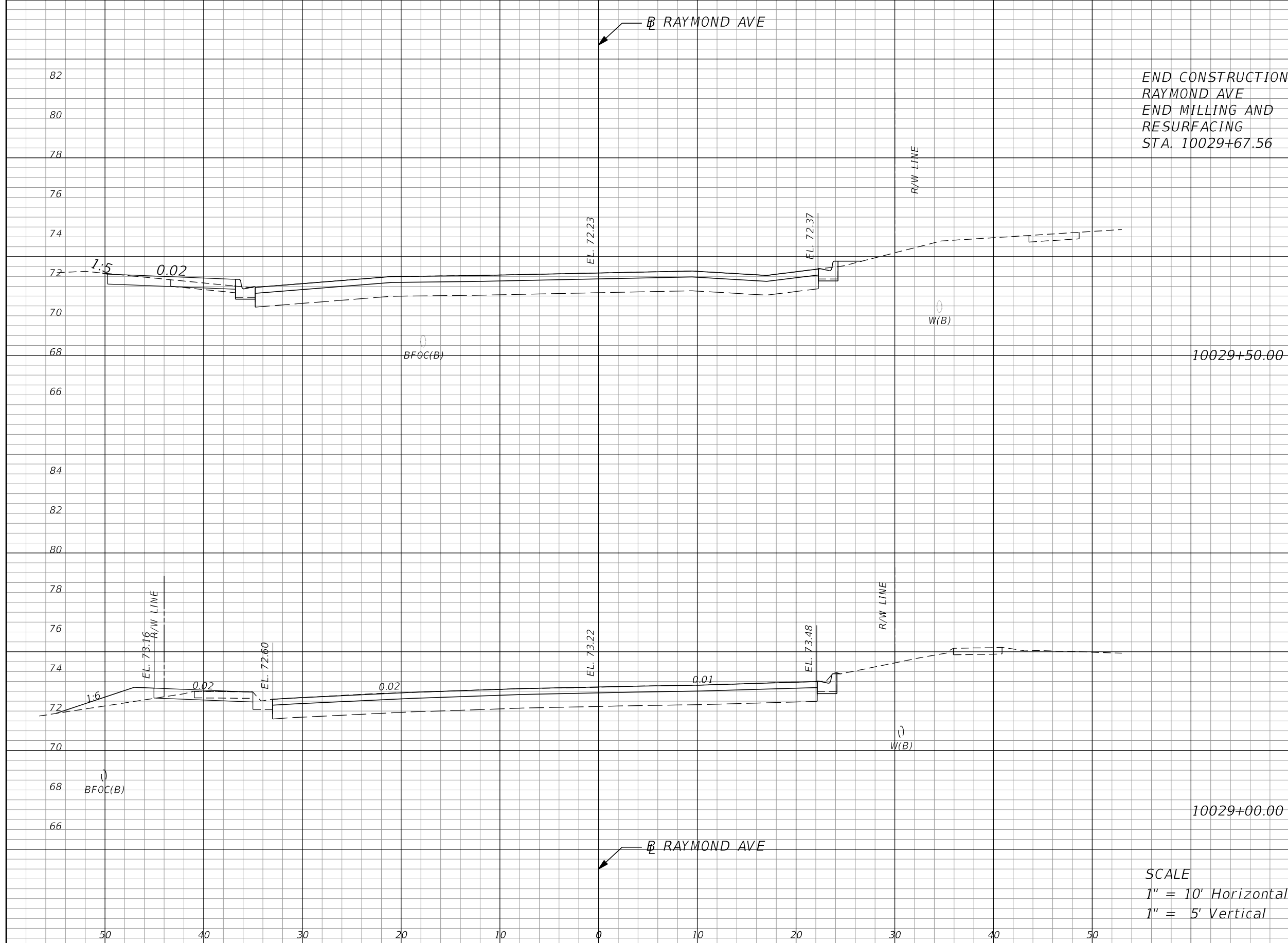


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE I

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

CROSS SECTIONS

SHEET NO.
170



Regular		Exc.		Embankment	
A	V	A	V	A	V
			3.44		0.34
3.72				0.37	
	5.09				4.10
1.77				4.06	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

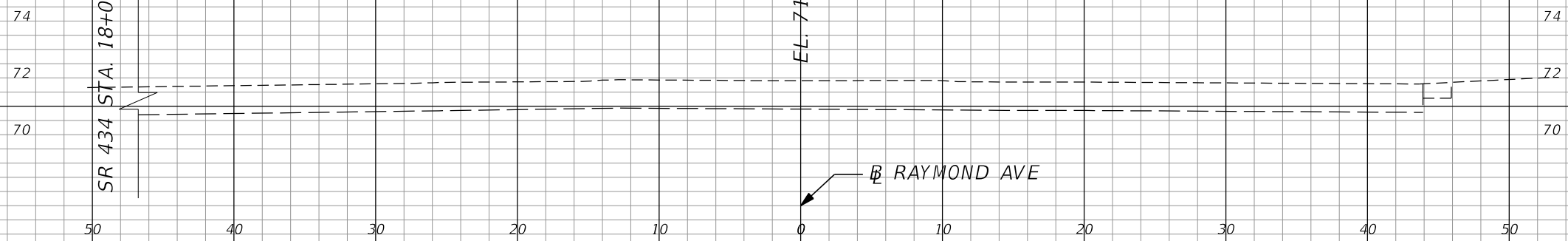
SHEET NO.
 171

RAYMOND AVE

Regular Exc.		Embankment	
A	V	A	V

0 0

0 0



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



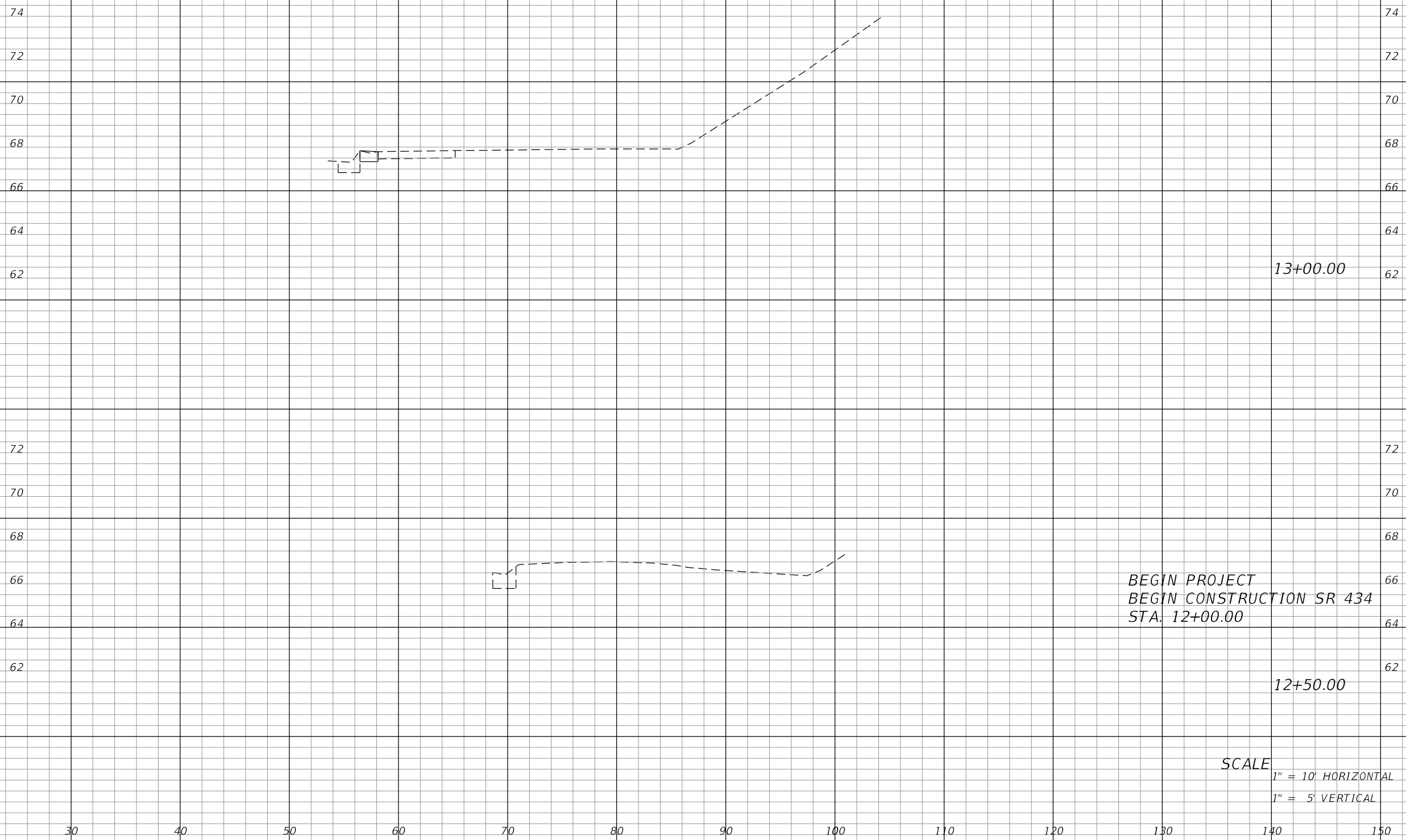
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 172

30' FROM \perp SR 434



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.67		0
0.72				0	
			0.67		0
0				0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

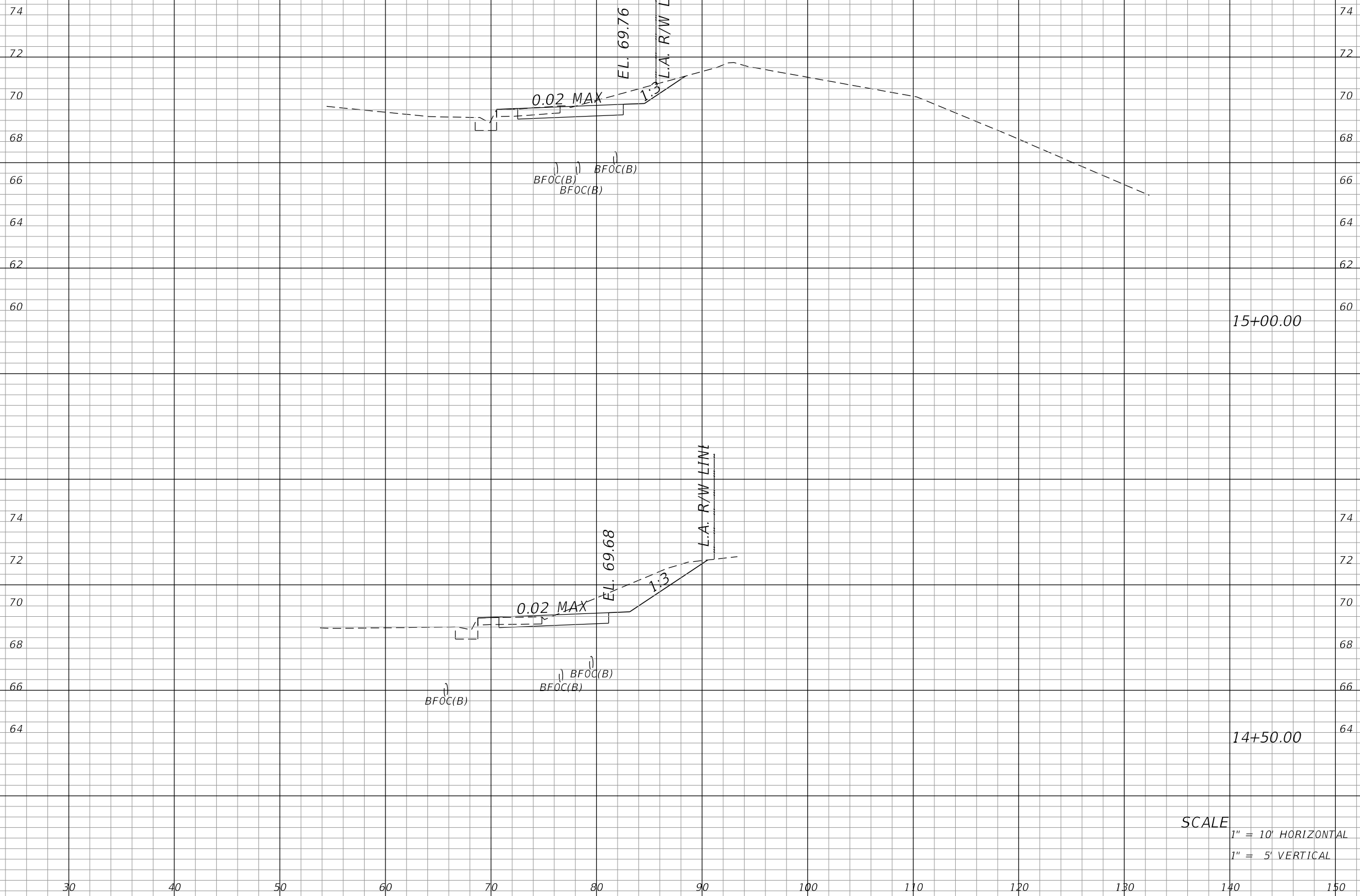
CROSS SECTIONS

SHEET NO.
173

Regular Exc. Embankment

A V A V

30' FROM \mathbb{B} SR 434



74	74		
72	72		
70	70	14.30	1.25
68	68		
66	66		
64	64		
62	62		
60	60	7.70	0.69
74	74		
72	72		
70	70	19.95	1.28
68	68		
66	66		
64	64	13.84	0.68

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

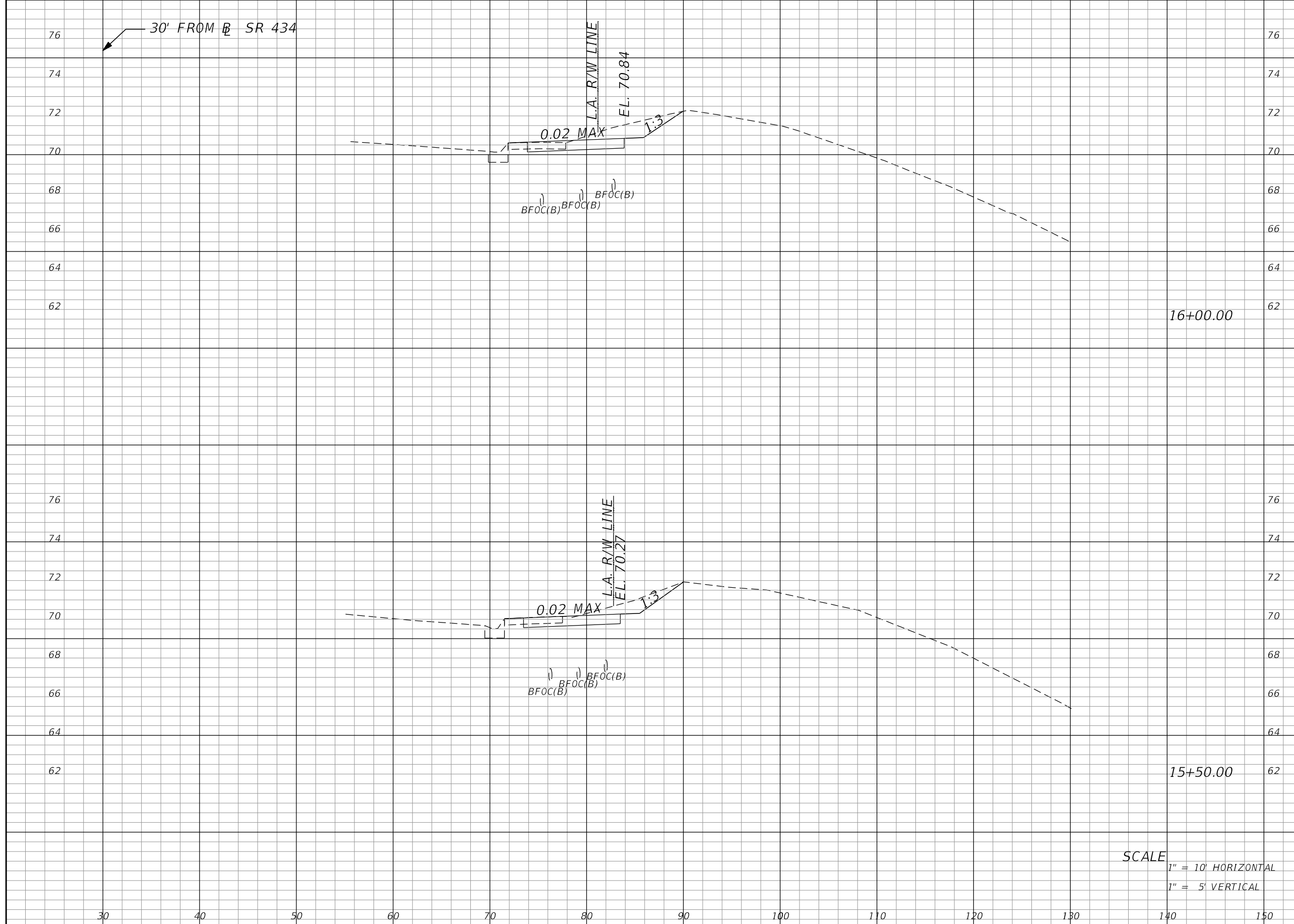


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
175



Regular		Exc.		Embankment	
A	V	A	V	A	V
8.76	14.61	0.68		1.26	
7.74	15.28	0.65		1.24	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

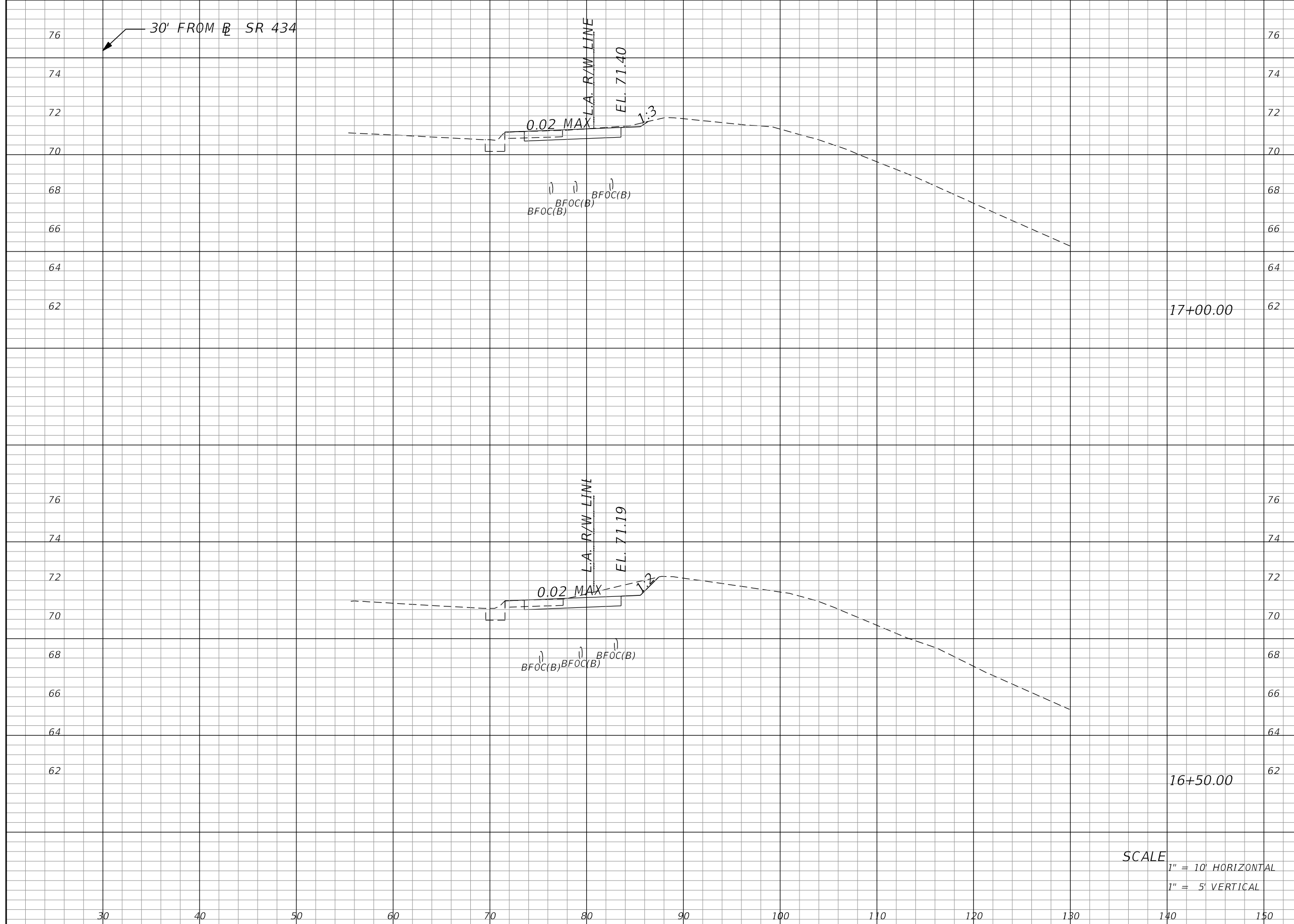


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
176



Regular		Exc.		Embankment	
A	V	A	V	A	V
			6.69		1.58
3.92			0.69		
	10.14				1.26
7.02			0.68		

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

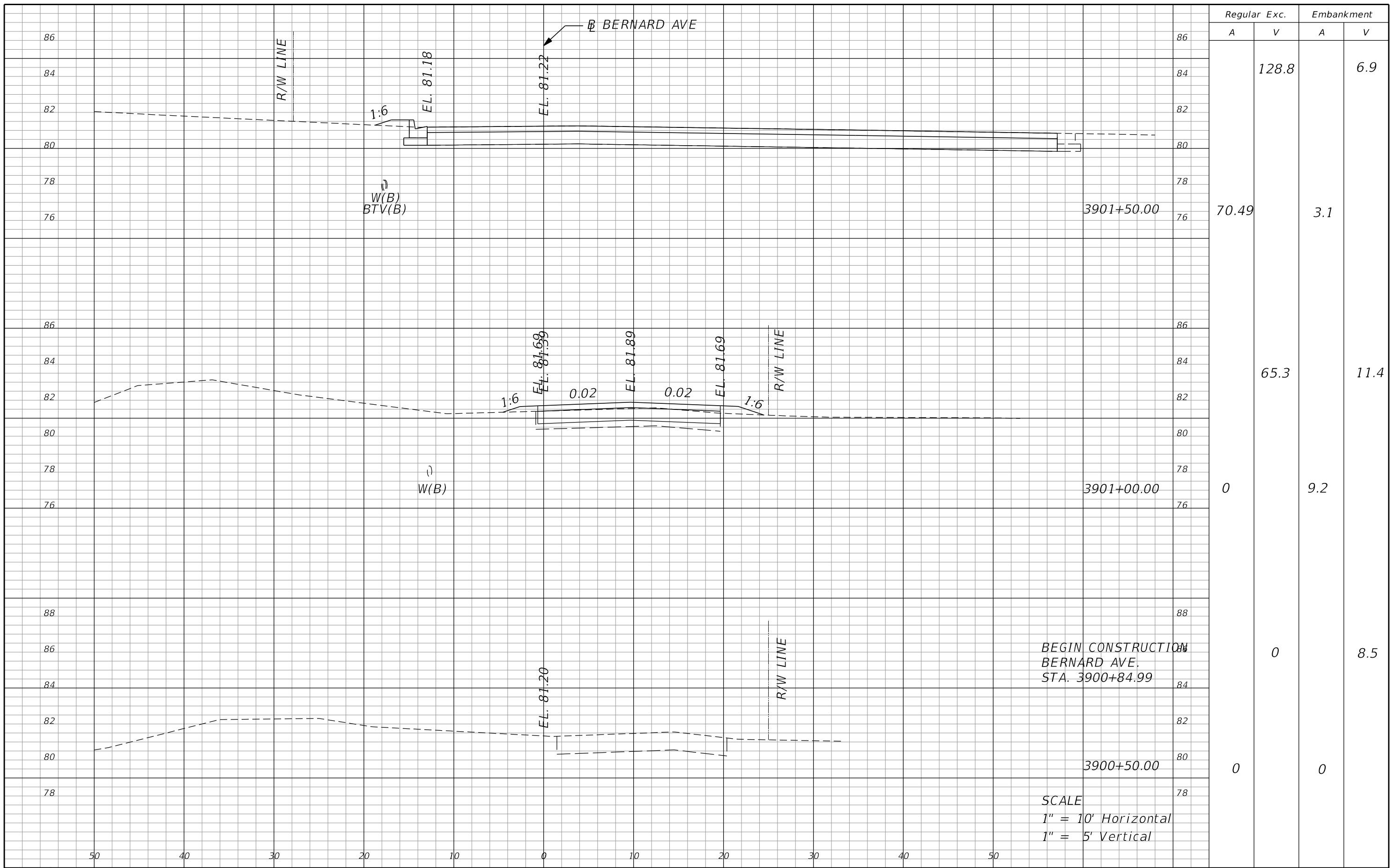


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 177



Regular		Exc.		Embankment	
A	V	A	V	A	V
	128.8			6.9	
70.49			3.1		
	65.3			11.4	
0			9.2		
	0			8.5	
0			0		

BEGIN CONSTRUCTION
BERNARD AVE.
STA. 3900+84.99

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
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

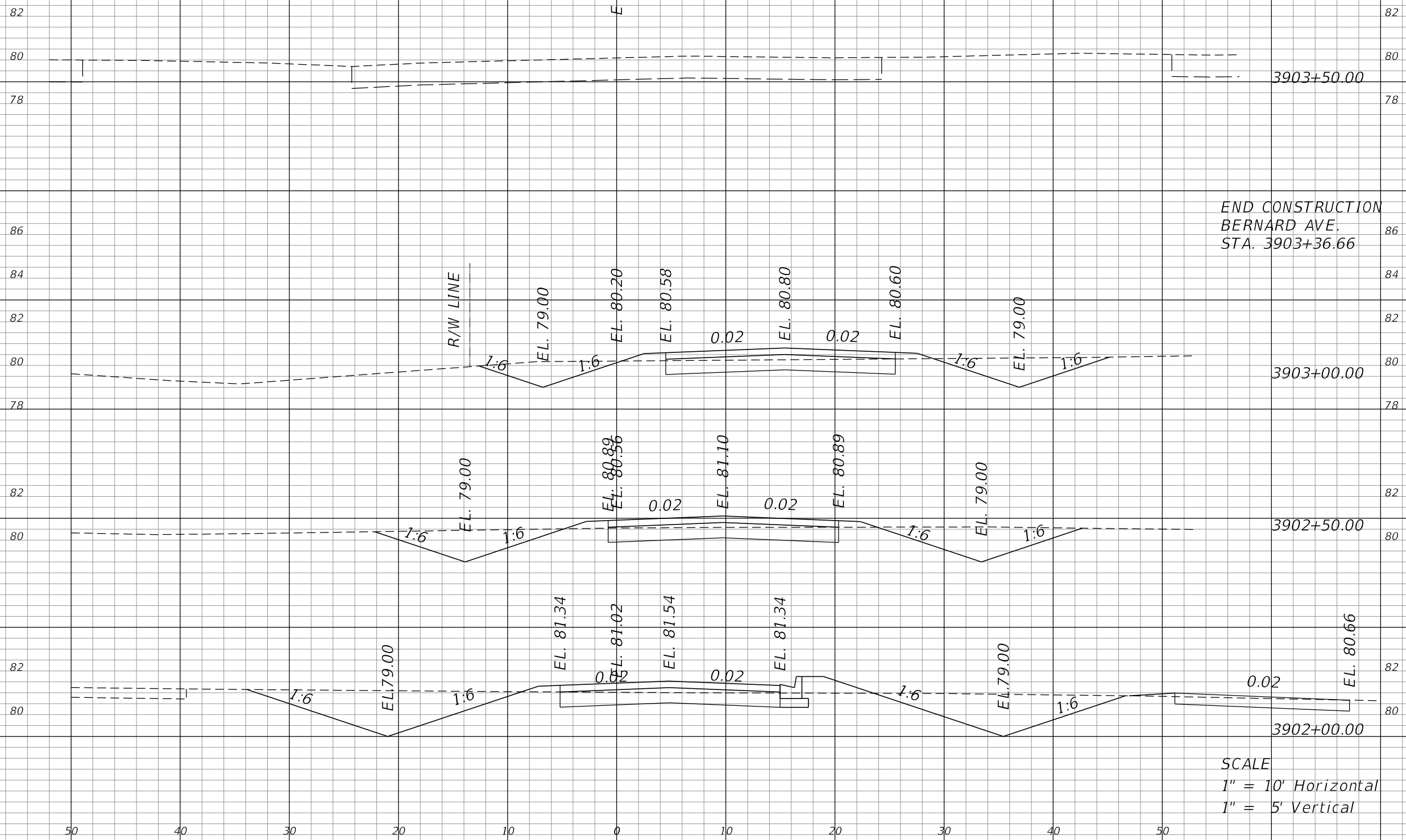
ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
179

BERNARD AVE

Regular Exc.		Embankment	
A	V	A	V
	0.00		0.00
0.00		0.00	
28.10		1.60	
30.36		1.80	
65.00		3.30	
39.86		1.70	
100.4		5.60	
68.60		4.30	



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

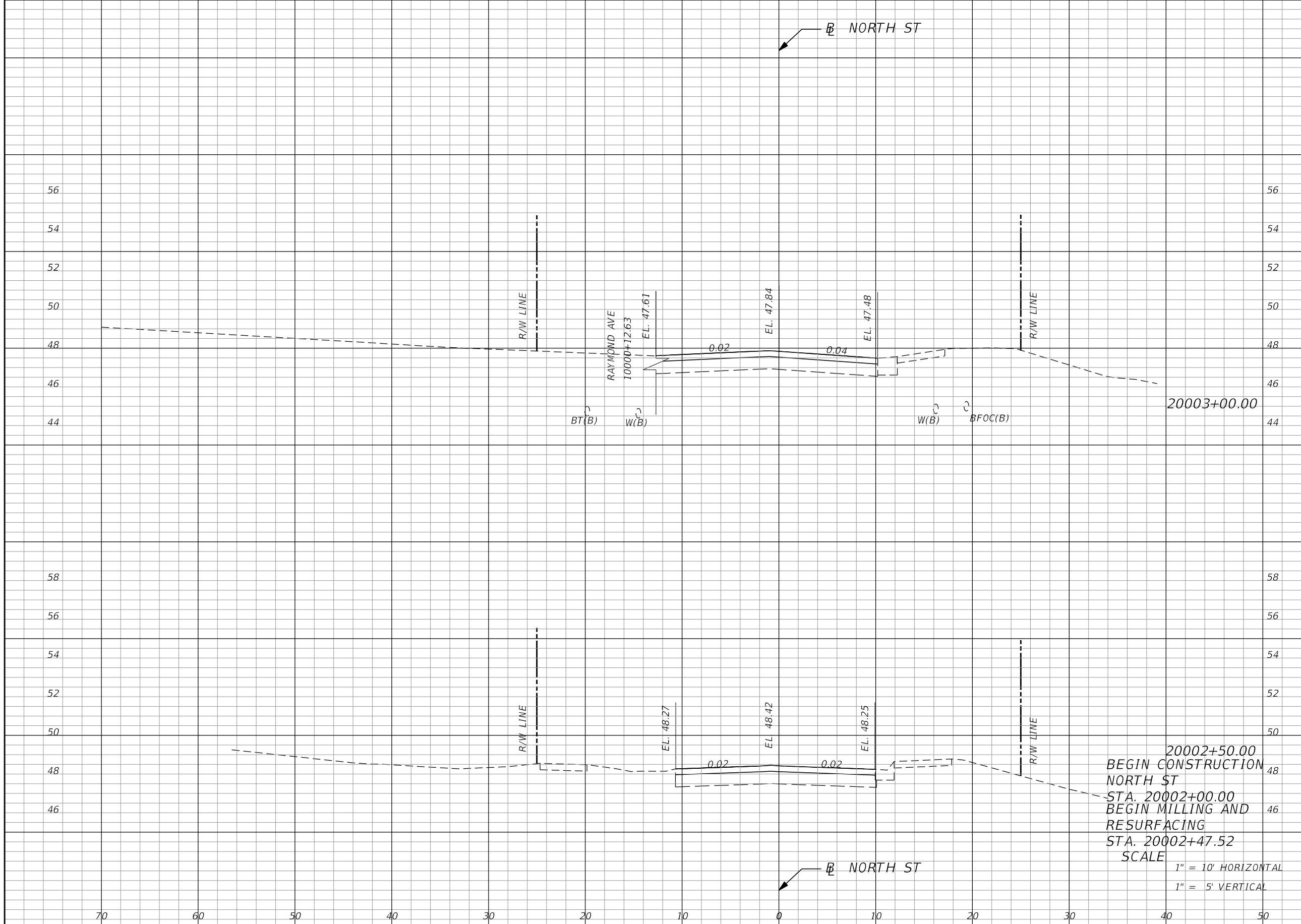


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 180



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.41		0.04
0		0		0	
		0		0	
0		0		0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

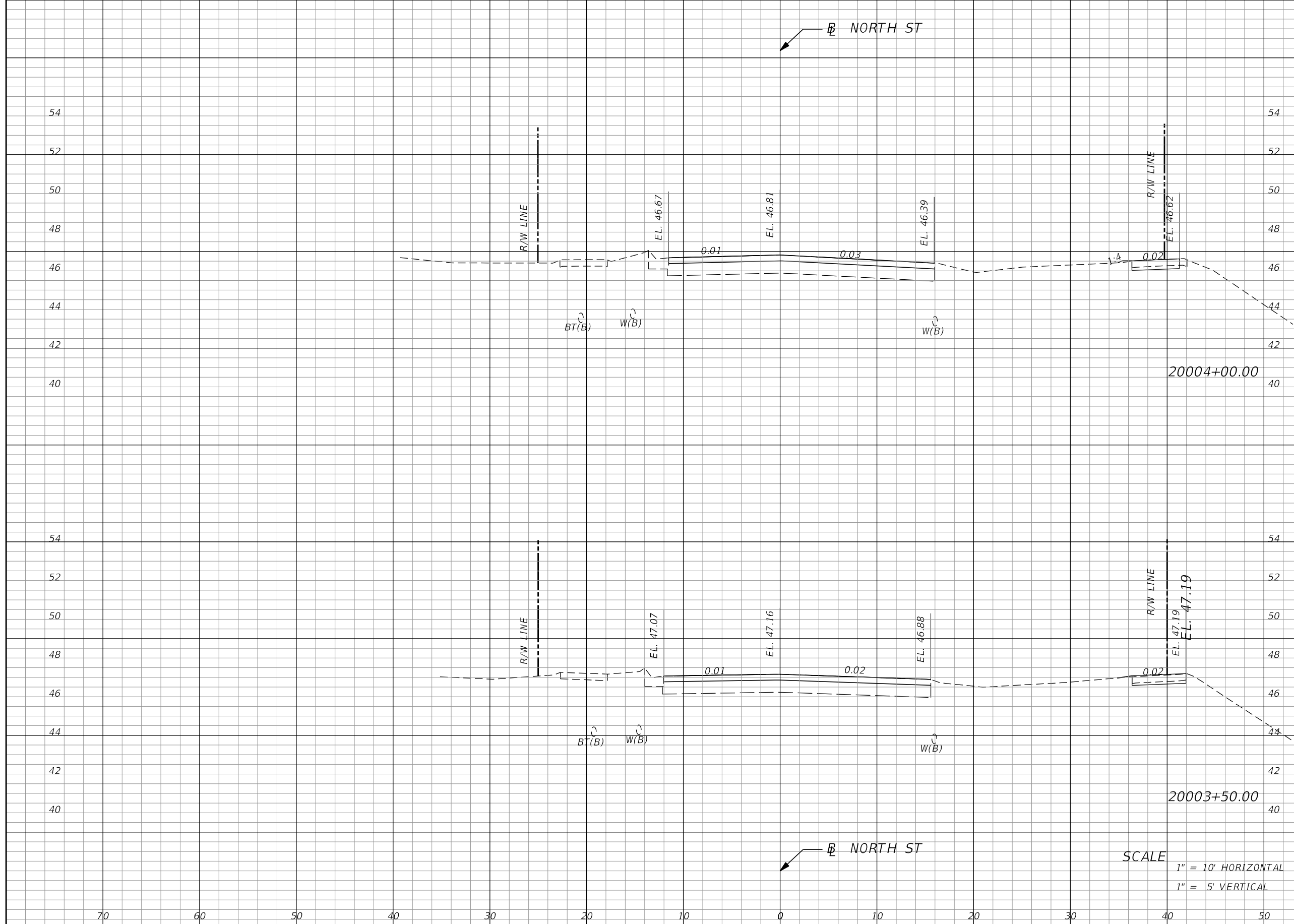


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 181



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.25		0.07
2.43				0.08	
			4.66		0.11
2.60				0.04	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



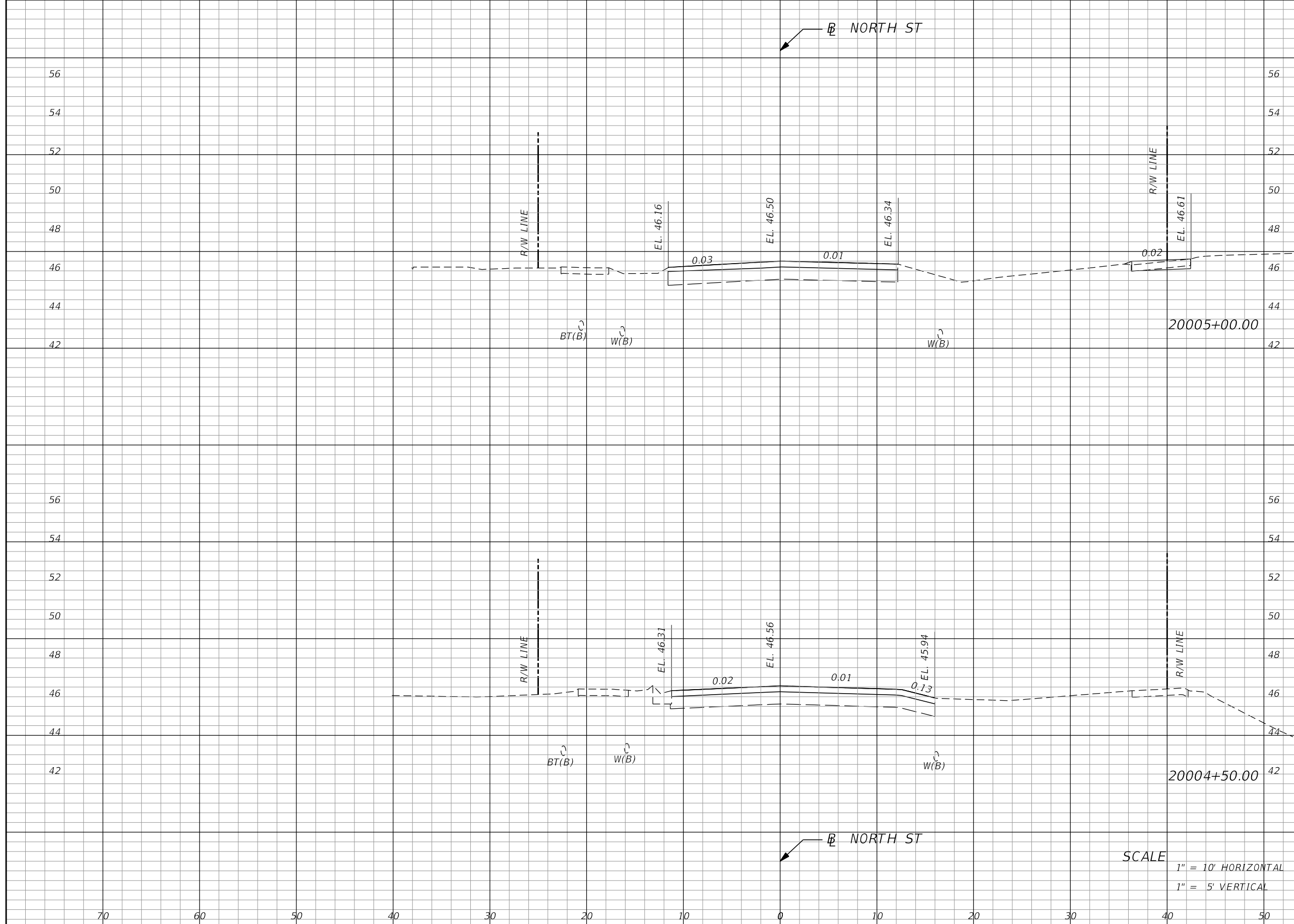
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

CROSS SECTIONS

SHEET NO.
 182



Regular		Exc.		Embankment	
A	V	A	V	A	V
0.46	2.21	0.07	0.06	0	0

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

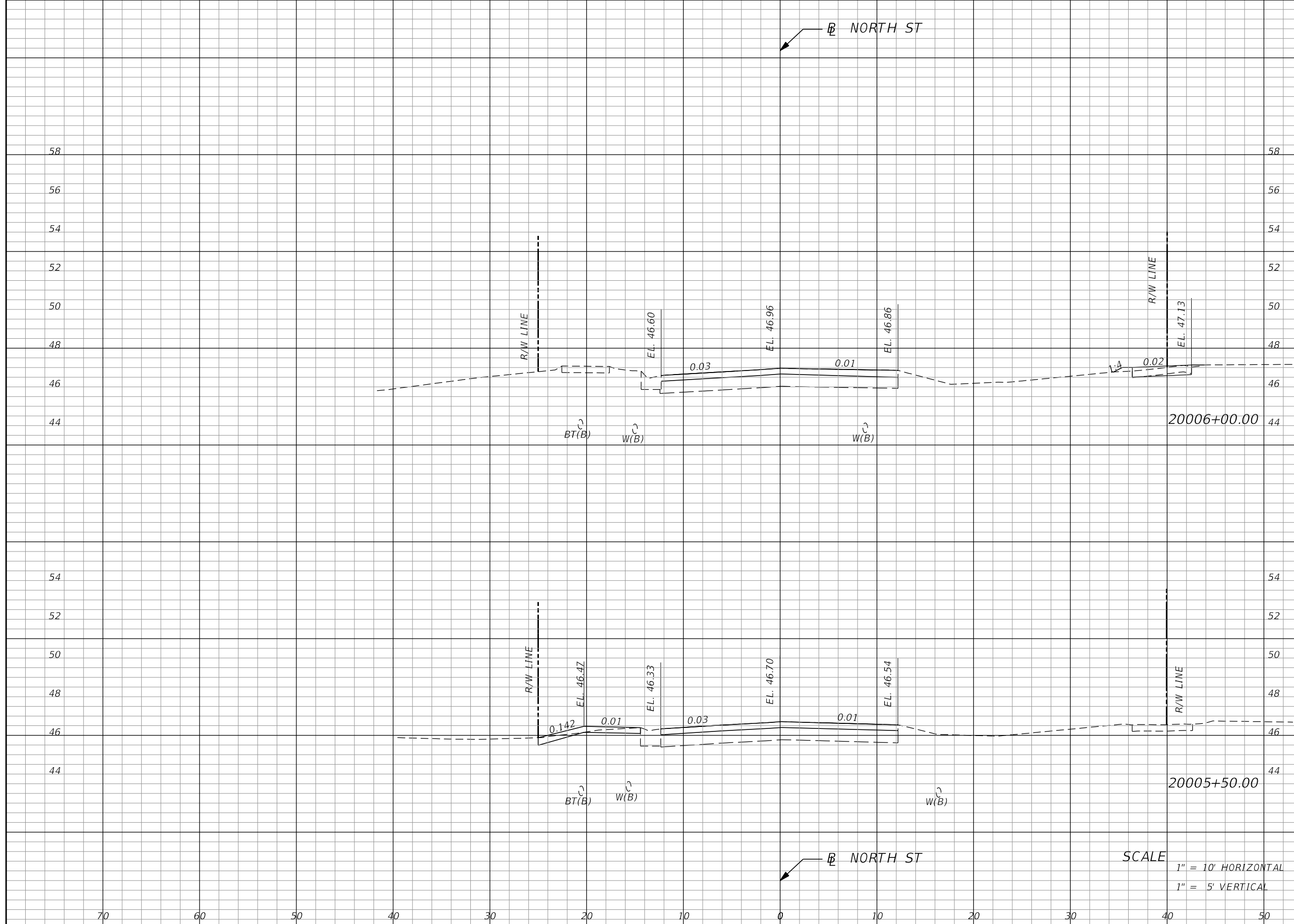


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE I

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

CROSS SECTIONS

SHEET NO.
183



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.27		0.36
2.45				0.39	
	4.06				0.36
1.93				0	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

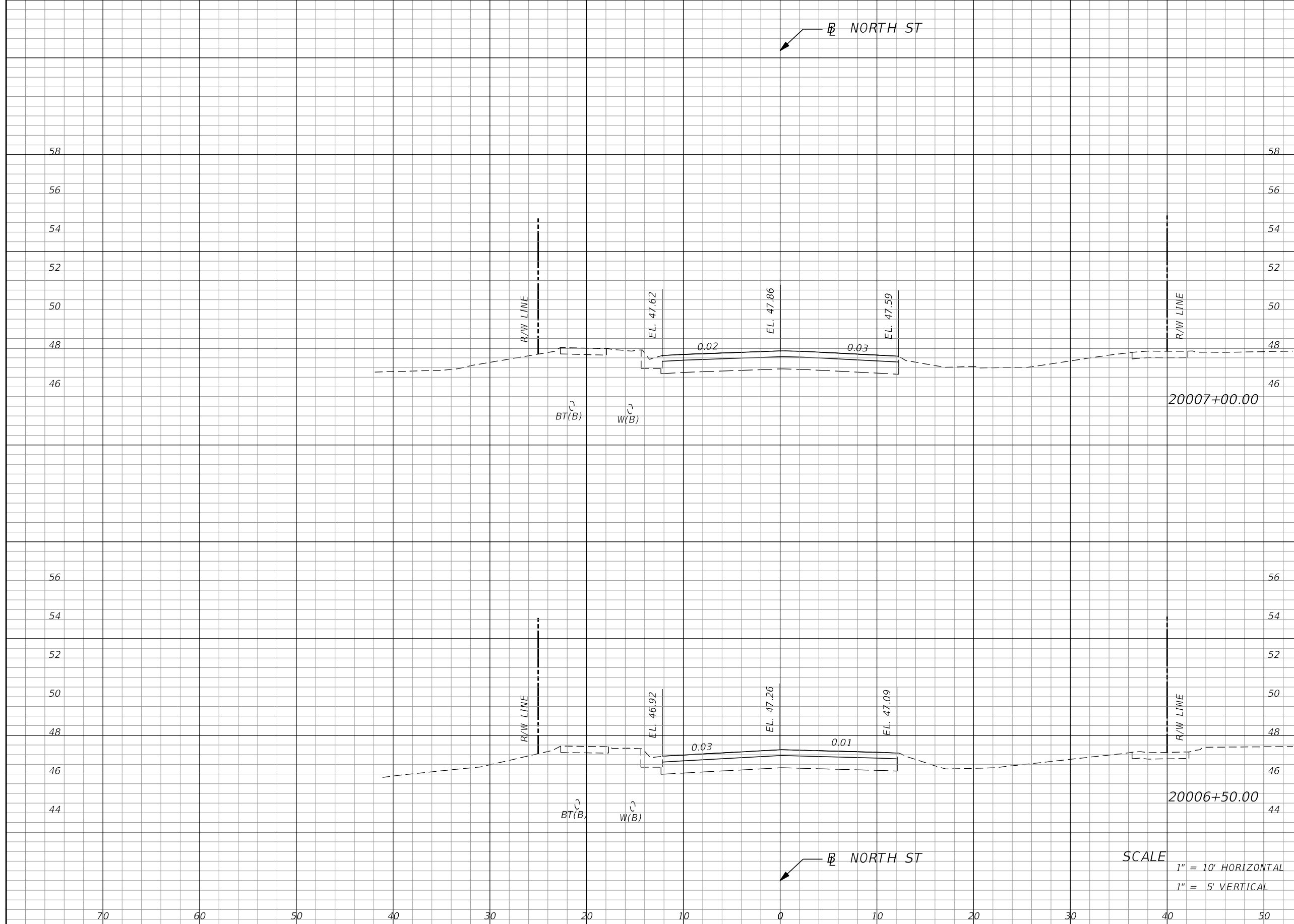


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
184



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0		0
0				0	
			0		0
0				0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



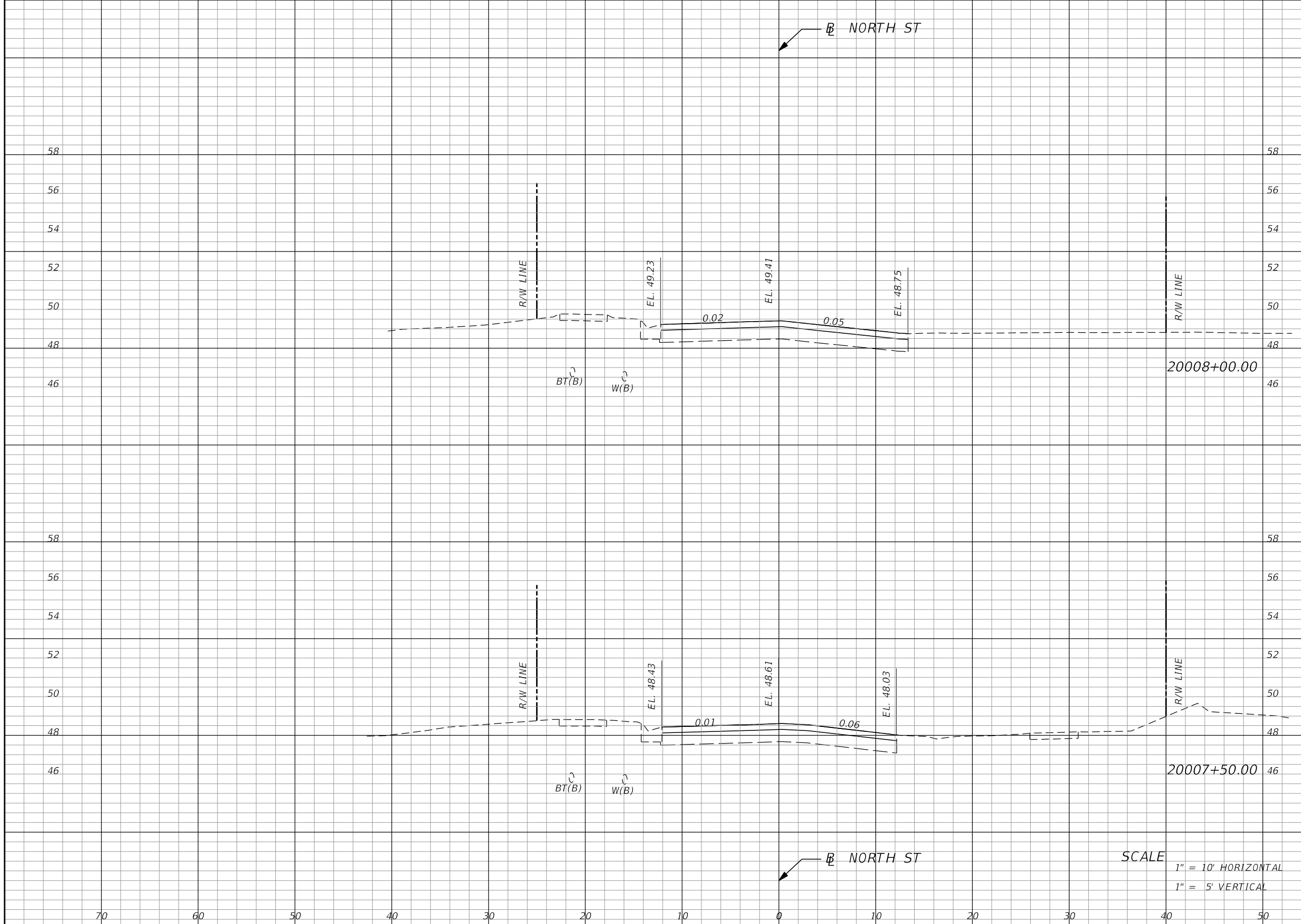
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

CROSS SECTIONS

SHEET NO.
185



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

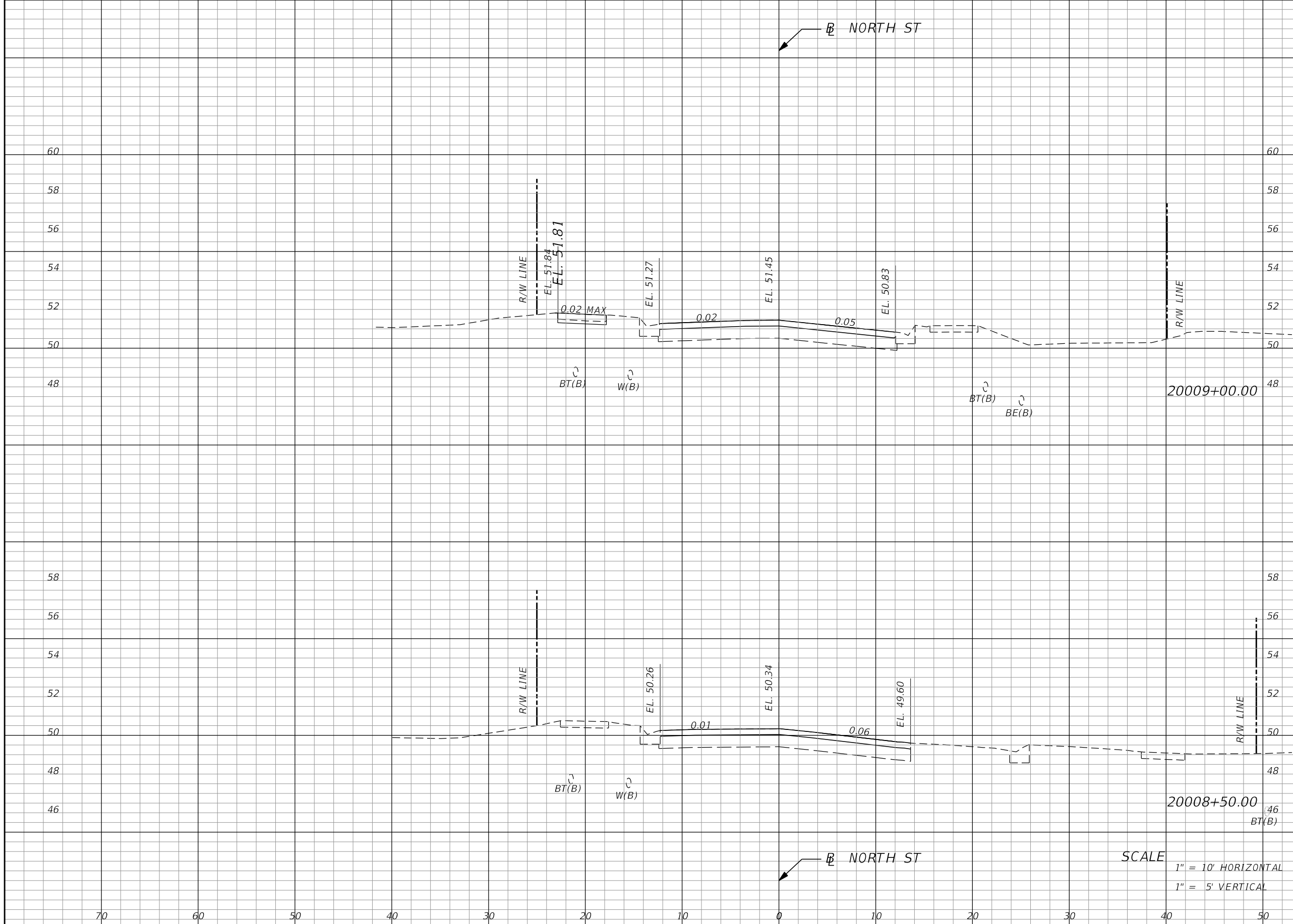


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 186



Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.64		0.07
0.86				0	
			0.79		0
0				0	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

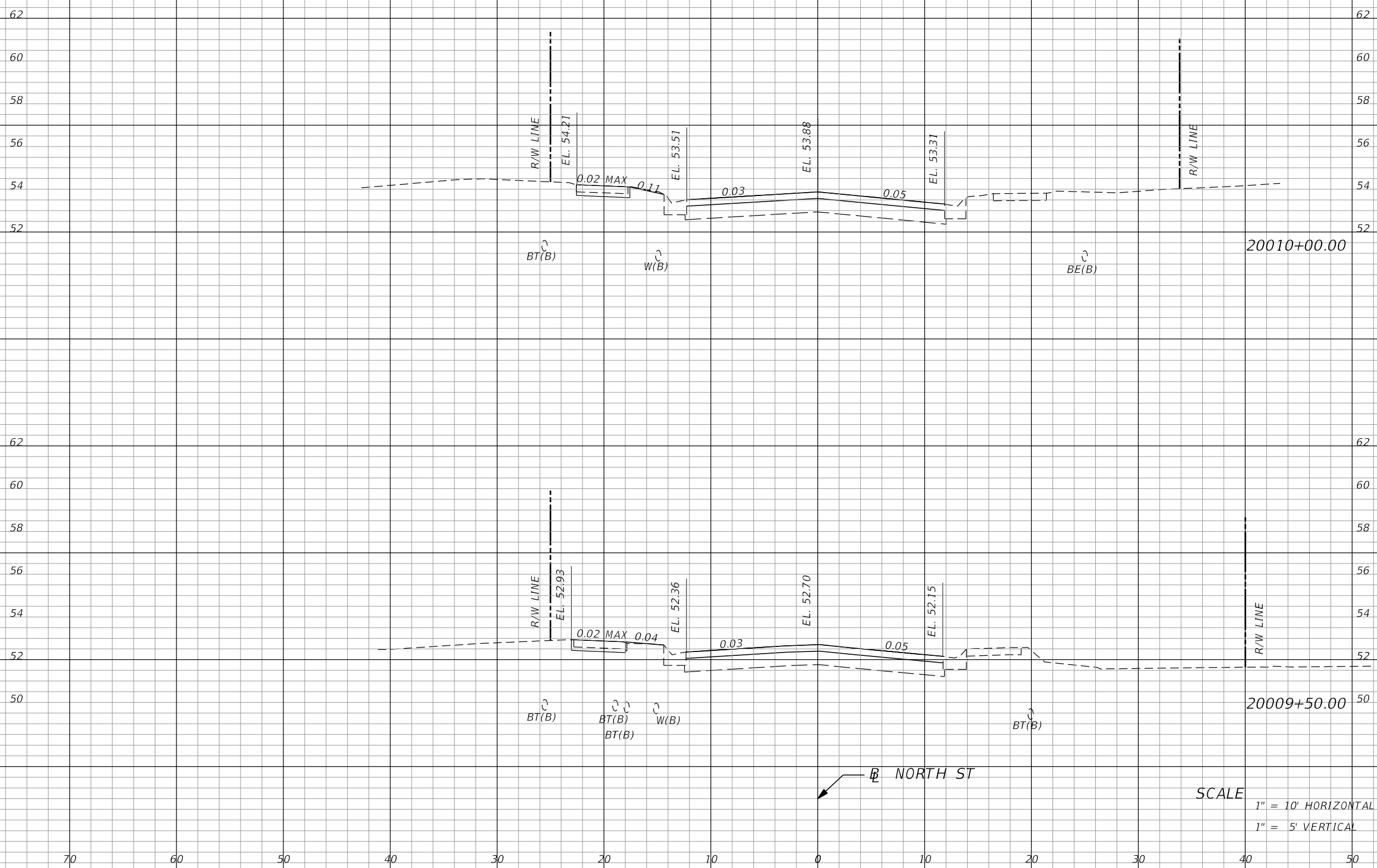


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 187



Regular		Exc.		Embankment	
A	V	A	V	A	V
	1.72			0.18	
0.92			0.12		
	1.70			0.18	
0.91			0.08		

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

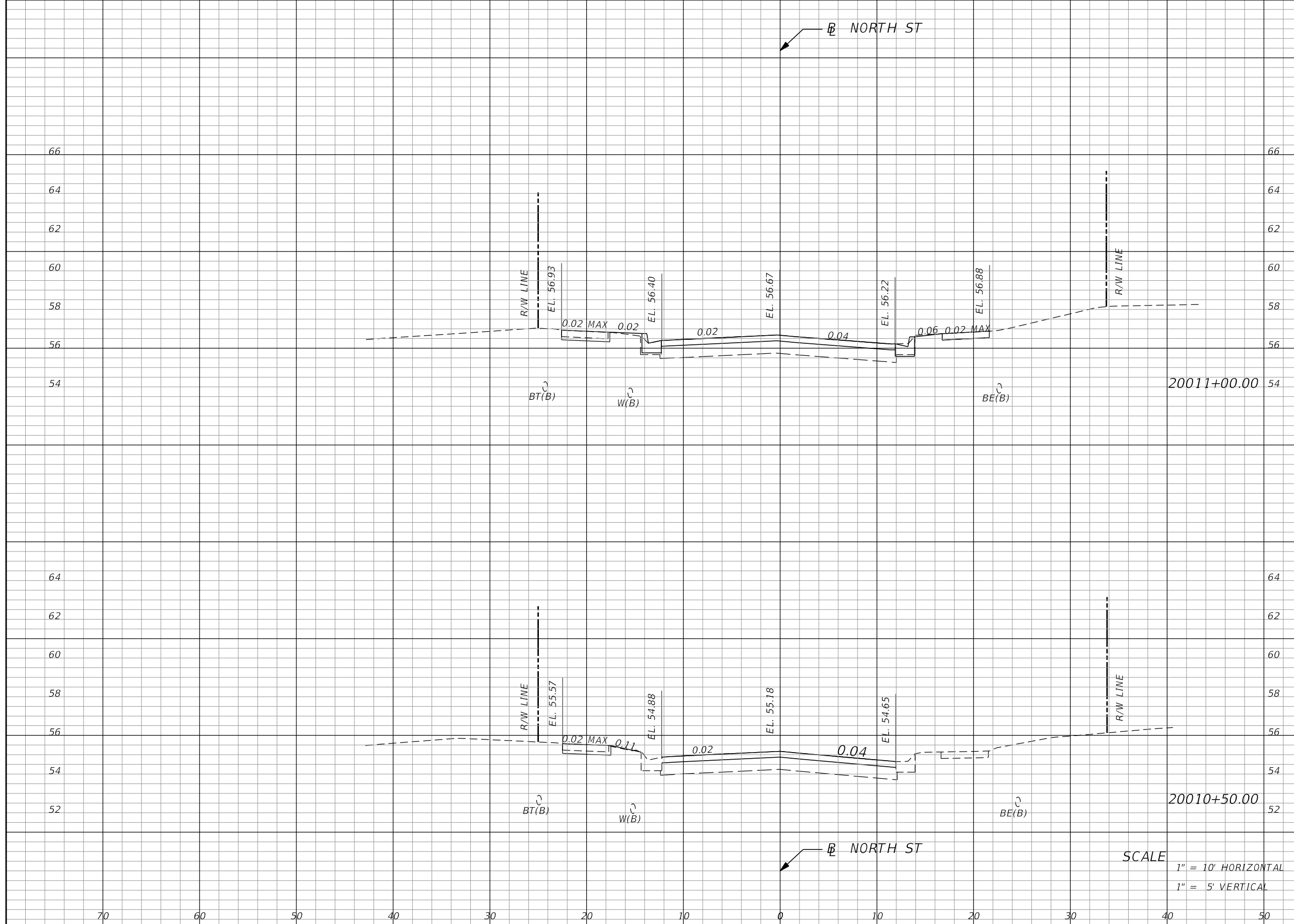


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 188



Regular		Exc.		Embankment	
A	V	A	V	A	V
	11.34			0.23	
1.13		0.25			
	1.92			0.30	
0.94		0.07			

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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 I

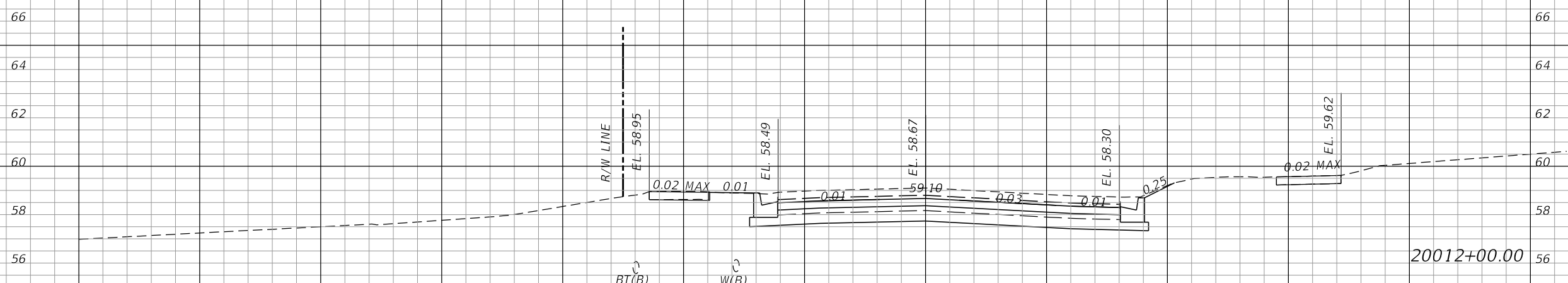
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

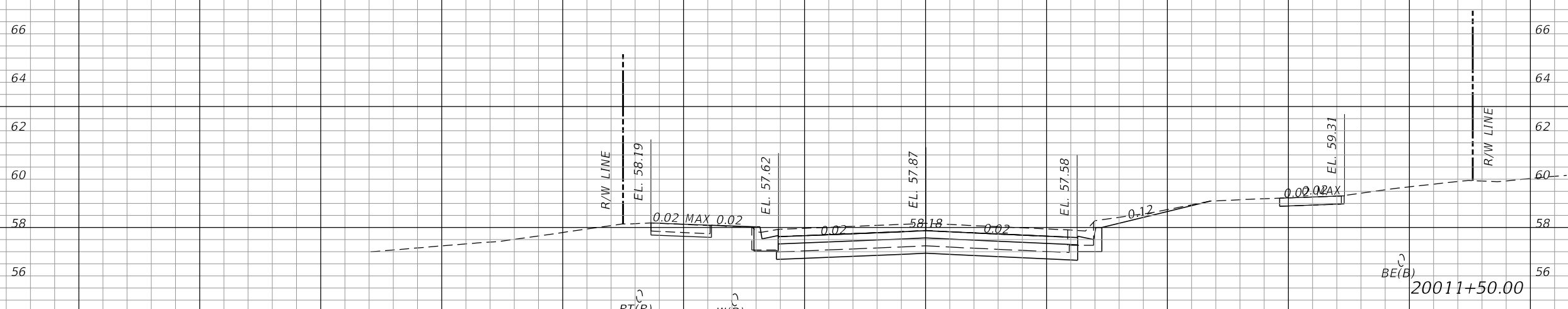
SHEET NO.
 189

Regular		Exc.		Embankment	
A	V	A	V	A	V

← NORTH ST



66	37.85	0
64		
62		
60		
58		
56	18.18	0



66	27.12	0
64		
62		
60		
58		
56	11.11	0

← NORTH ST

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

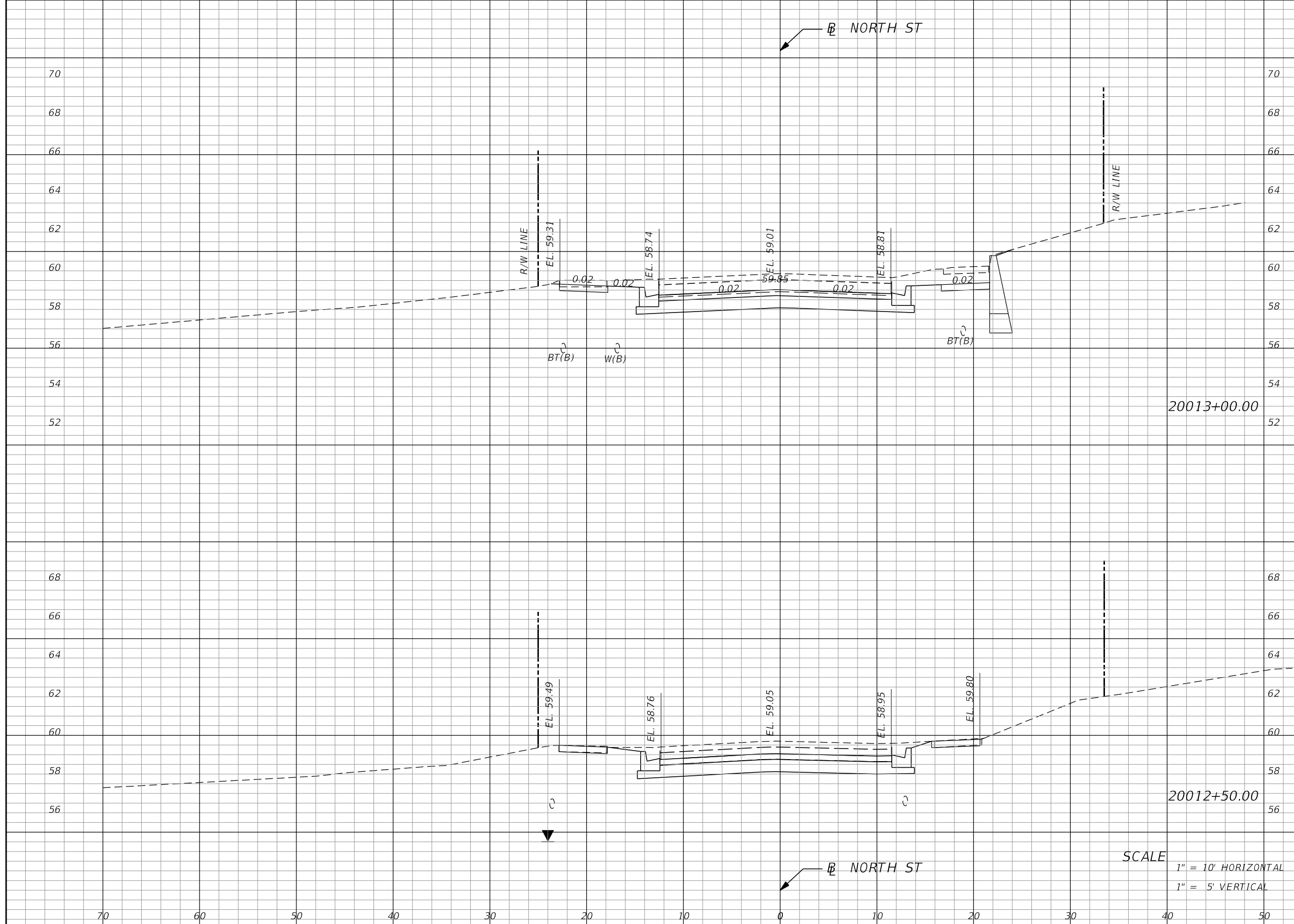


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
190



Regular		Exc.		Embankment	
A	V	A	V	A	V
			68.48		0.21
37.72		0			
			55.95		0
22.70		0			

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



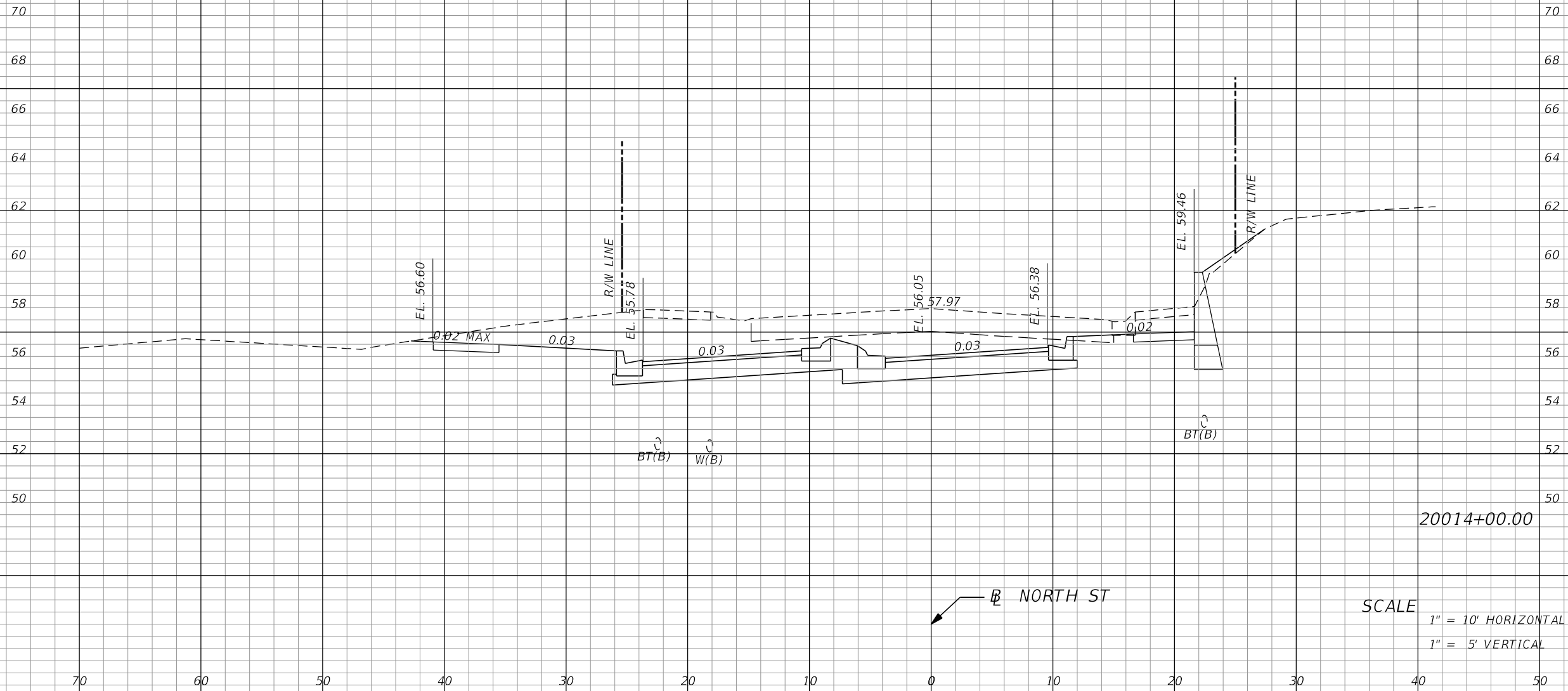
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD COUNTY CIP No.
 RAYMOND AVE., NORTH
 ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS

SHEET NO.
 191

← NORTH ST

← NORTH ST



Regular		Exc.		Embankment	
A	V	A	V	A	V
			643.15	0.00	
97.63				0	

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

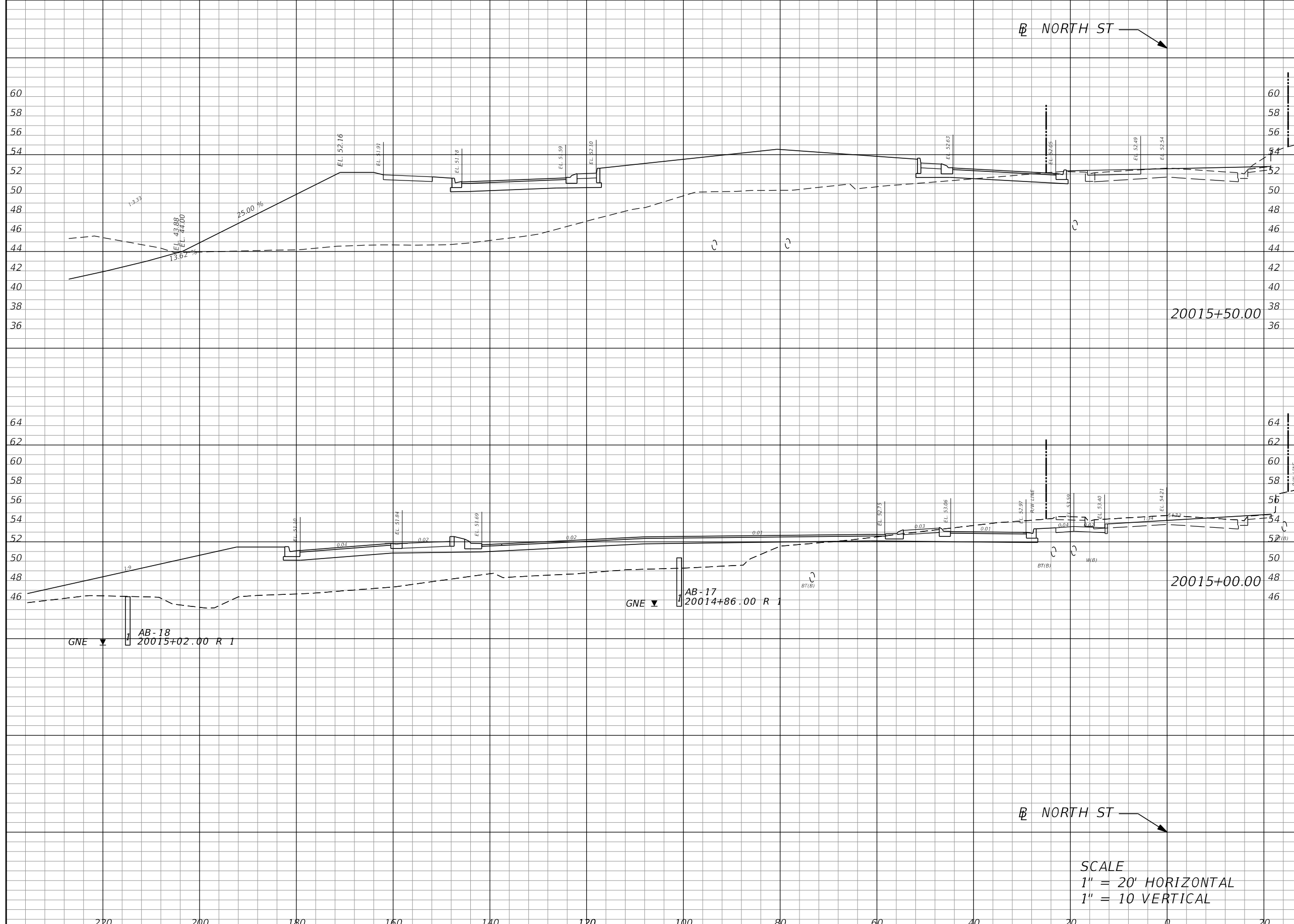
MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



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.
193

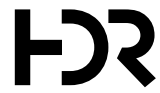


Regular		Exc.		Embankment	
A	V	A	V	A	V
	62.28			3033	
25.00		1384.9			
	292.11			2153.0	
290.48		940.37			

SCALE
 1" = 20' HORIZONTAL
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

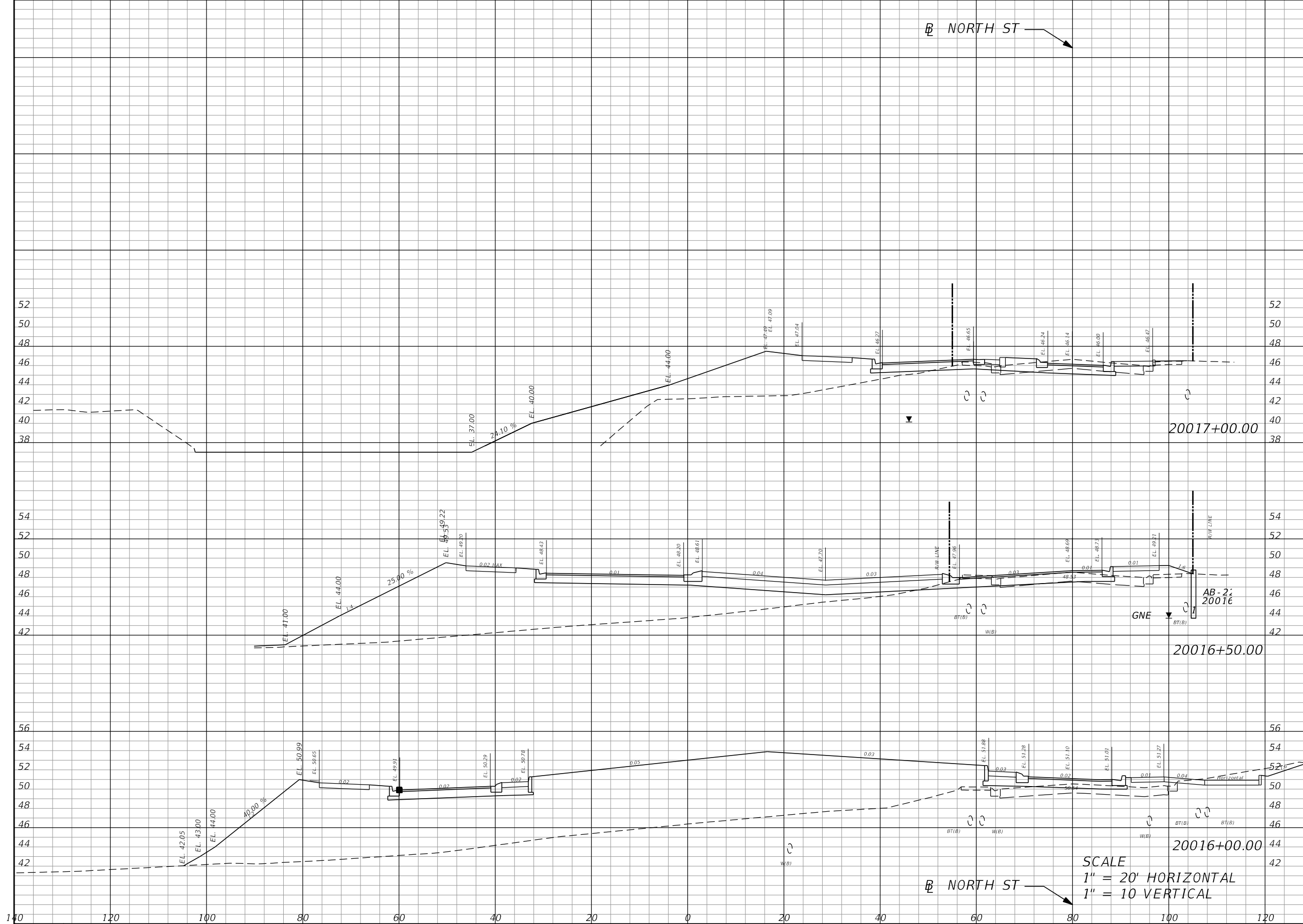


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 195



Regular		Exc.		Embankment	
A	V	A	V	A	V
			9.13		459.84
8.21				481.43	
		70.33			1317.5
67.75				941.44	
		101.87			2622.4
42.26				1890.8	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



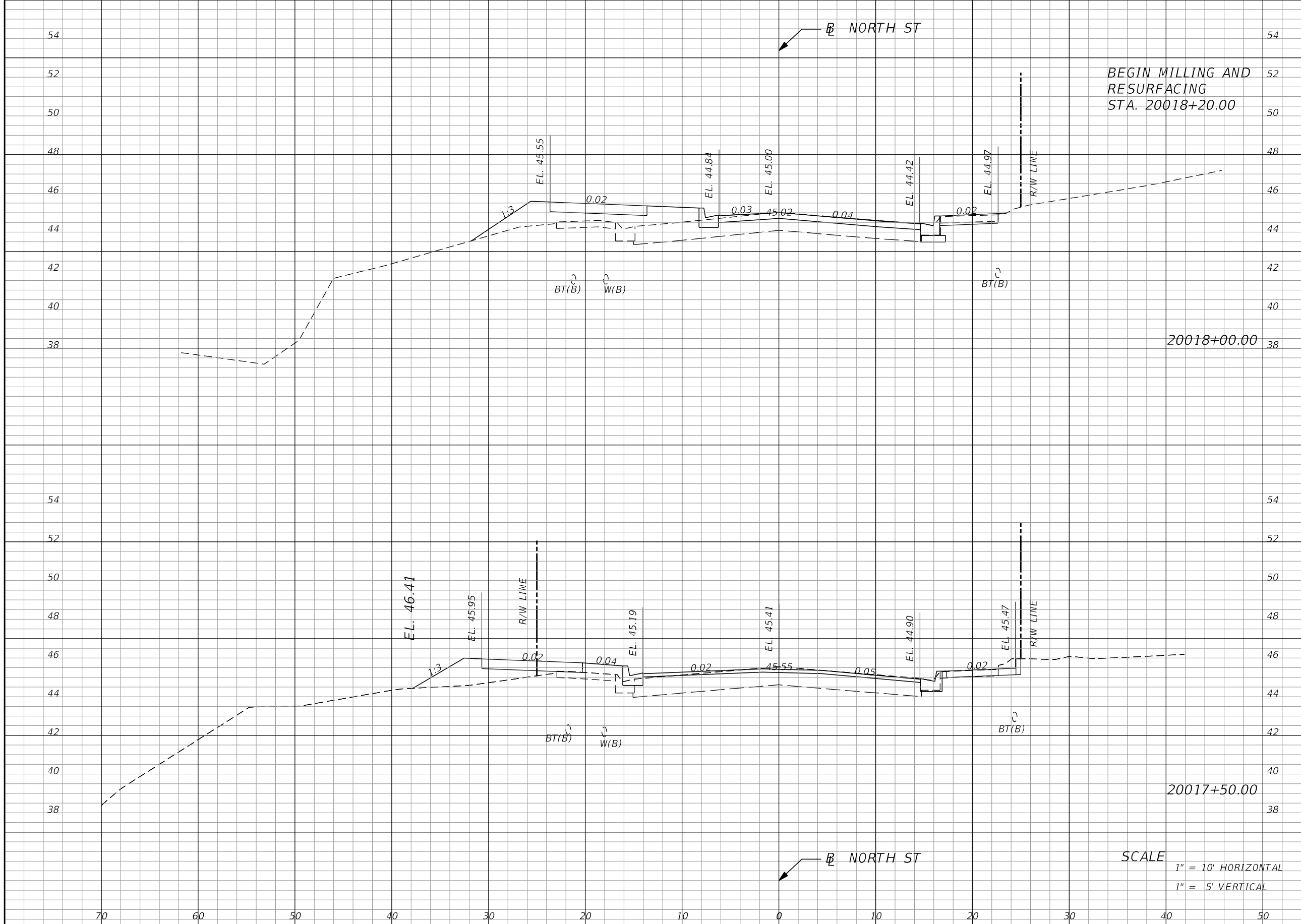
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SCALE
 1" = 20' HORIZONTAL
 1" = 10' VERTICAL

CROSS SECTIONS

SHEET NO.
 196



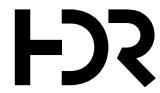
Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.71		25.67
1.54				18.92	
		2.95			31.59
1.65				15.20	

BEGIN MILLING AND RESURFACING STA. 20018+20.00

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

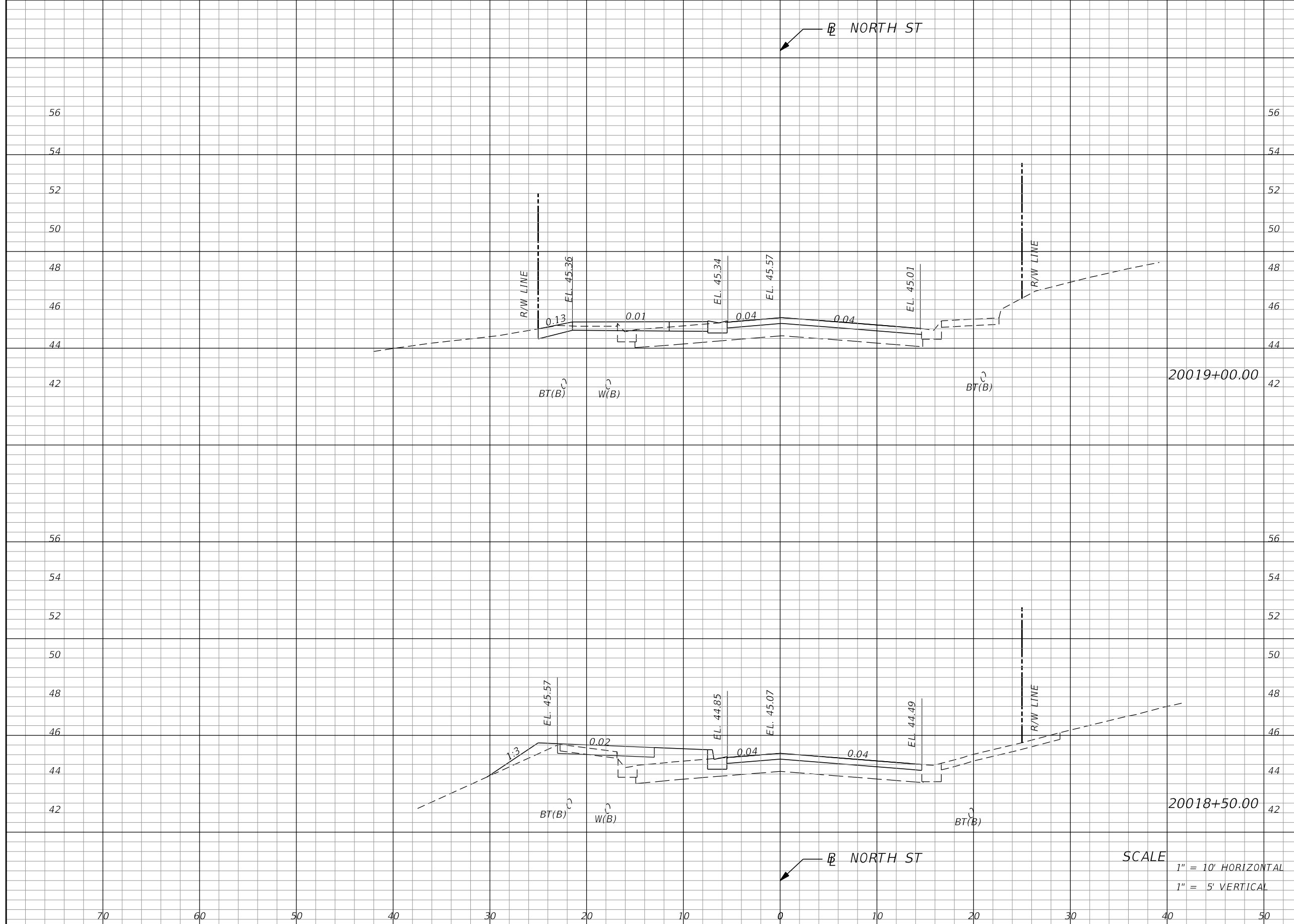


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
197



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.29		8.48
2.48		0			
	2.58				8.15
0.31			8.80		

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

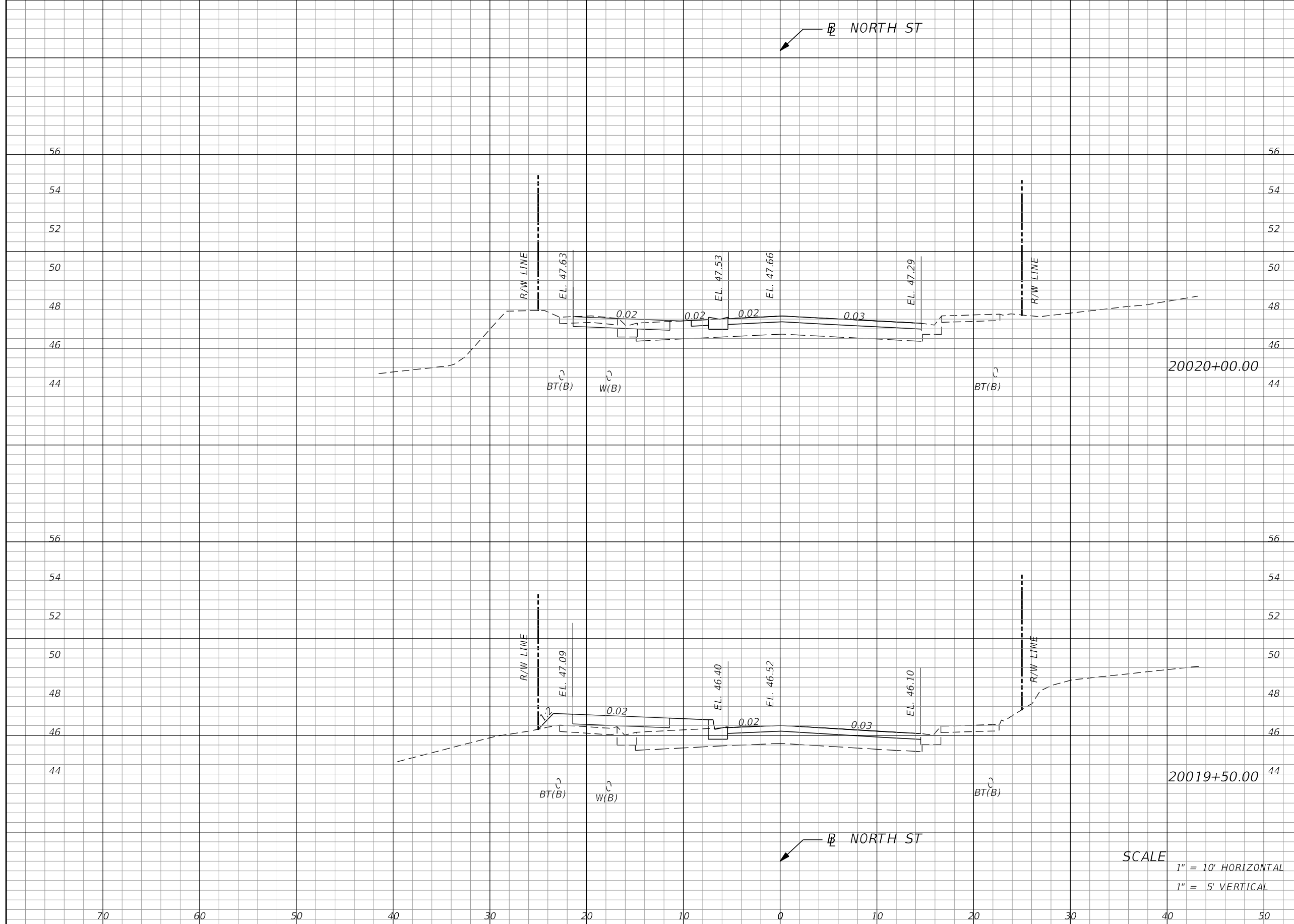


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 198



Regular		Exc.		Embankment	
A	V	A	V	A	V
	1.94			2.50	
0.94			1.38		
	0.87			9.75	
0			9.16		

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

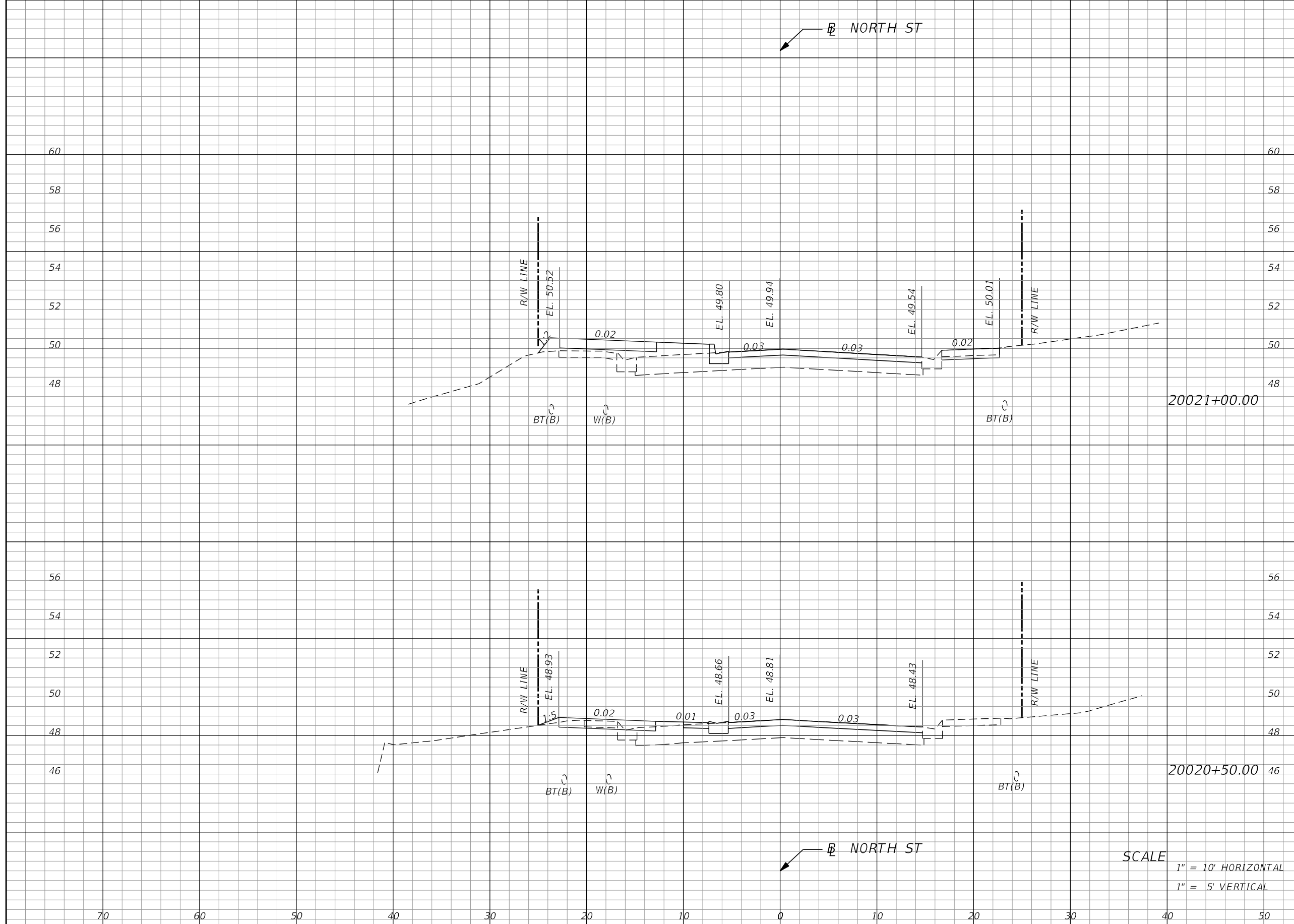


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 199



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.03		18.07
0.97				9.78	
	1.97				10.28
1.16				1.32	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

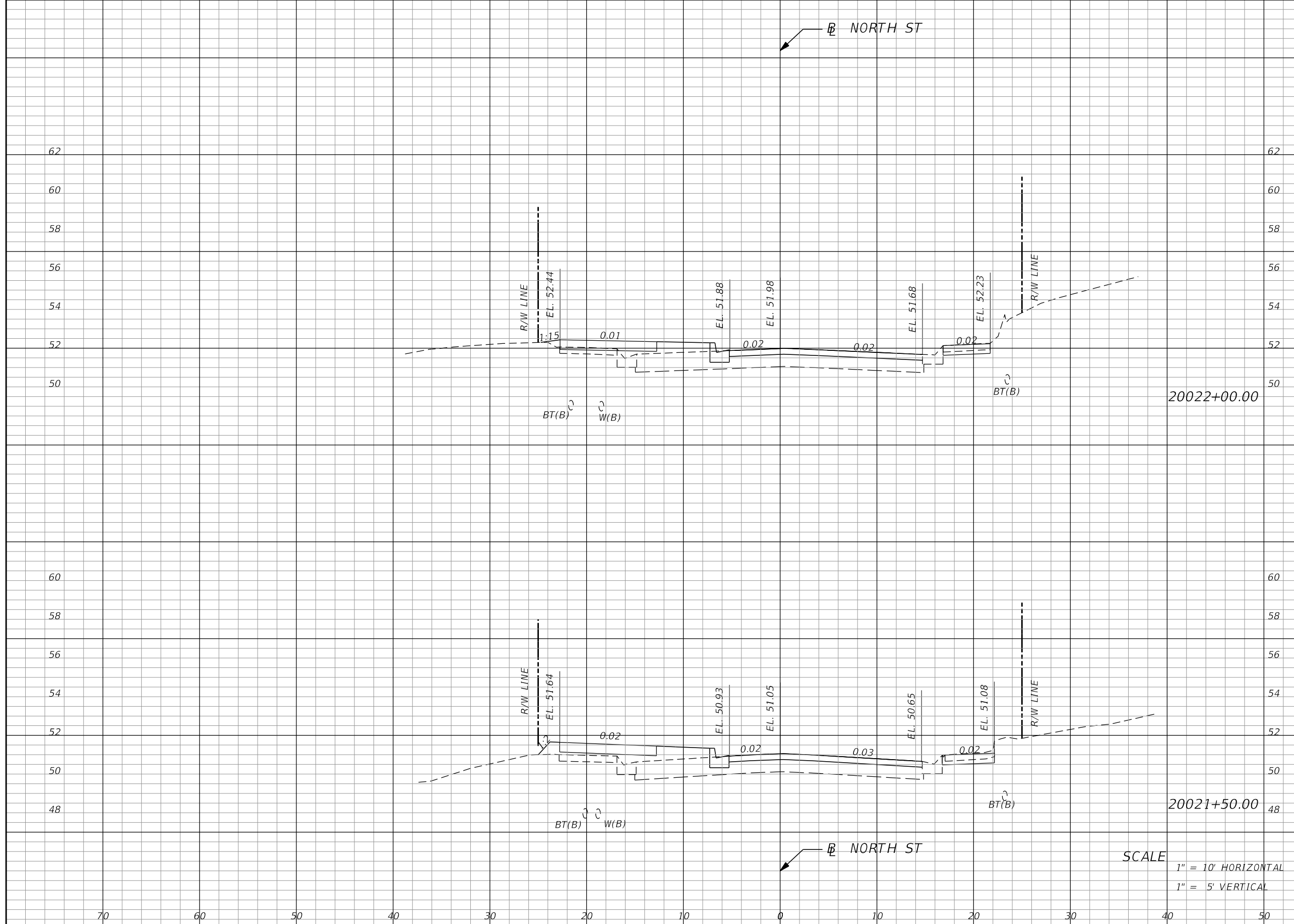
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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.
 200



Regular		Exc.		Embankment	
A	V	A	V	A	V
			4.85		13.60
0.89				7.39	
			1.96		15.86
1.23				9.74	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



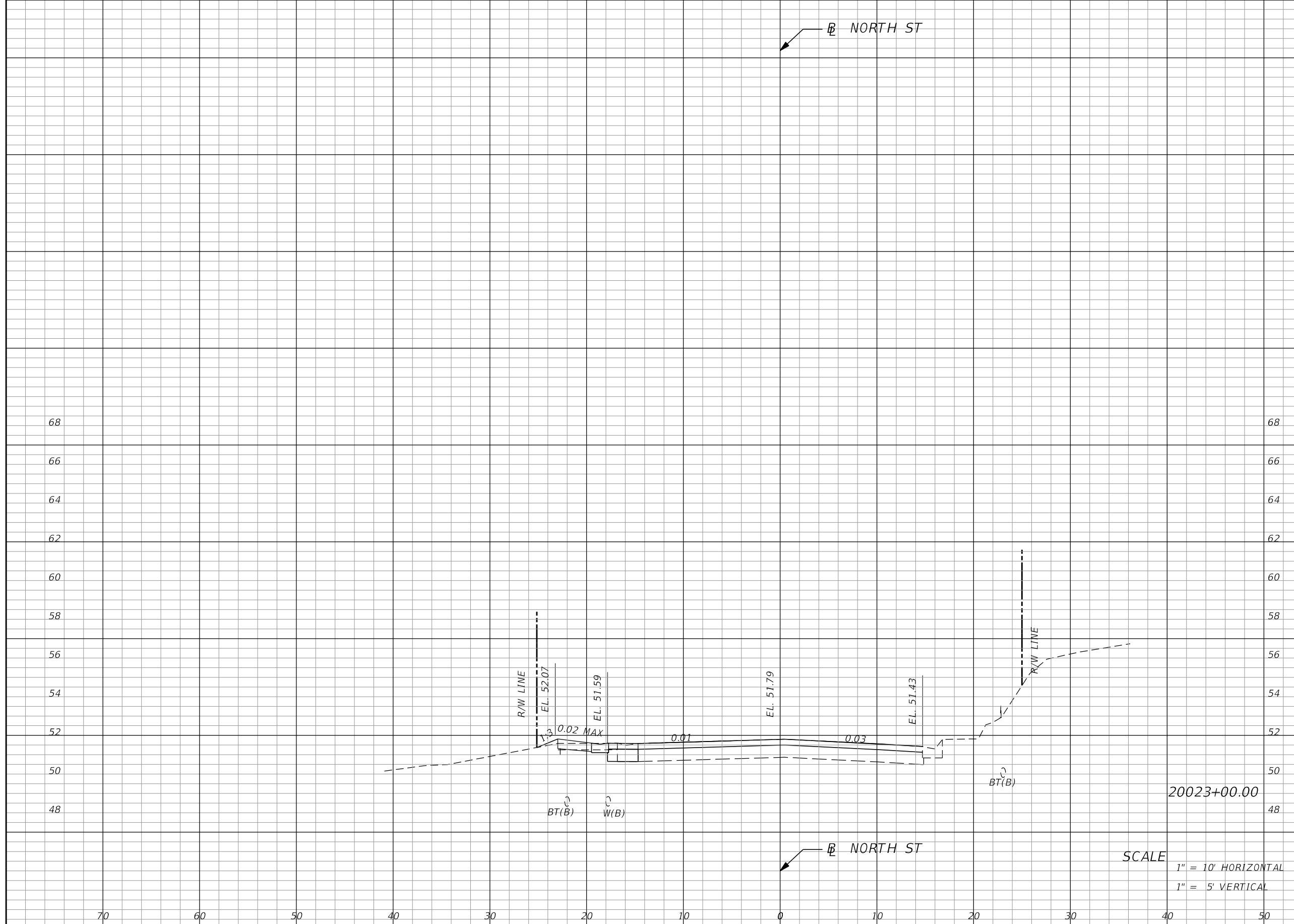
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

CROSS SECTIONS

SHEET NO.
 201



Regular Exc.		Embankment	
A	V	A	V
	0.88		8.72
0.95		0.25	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

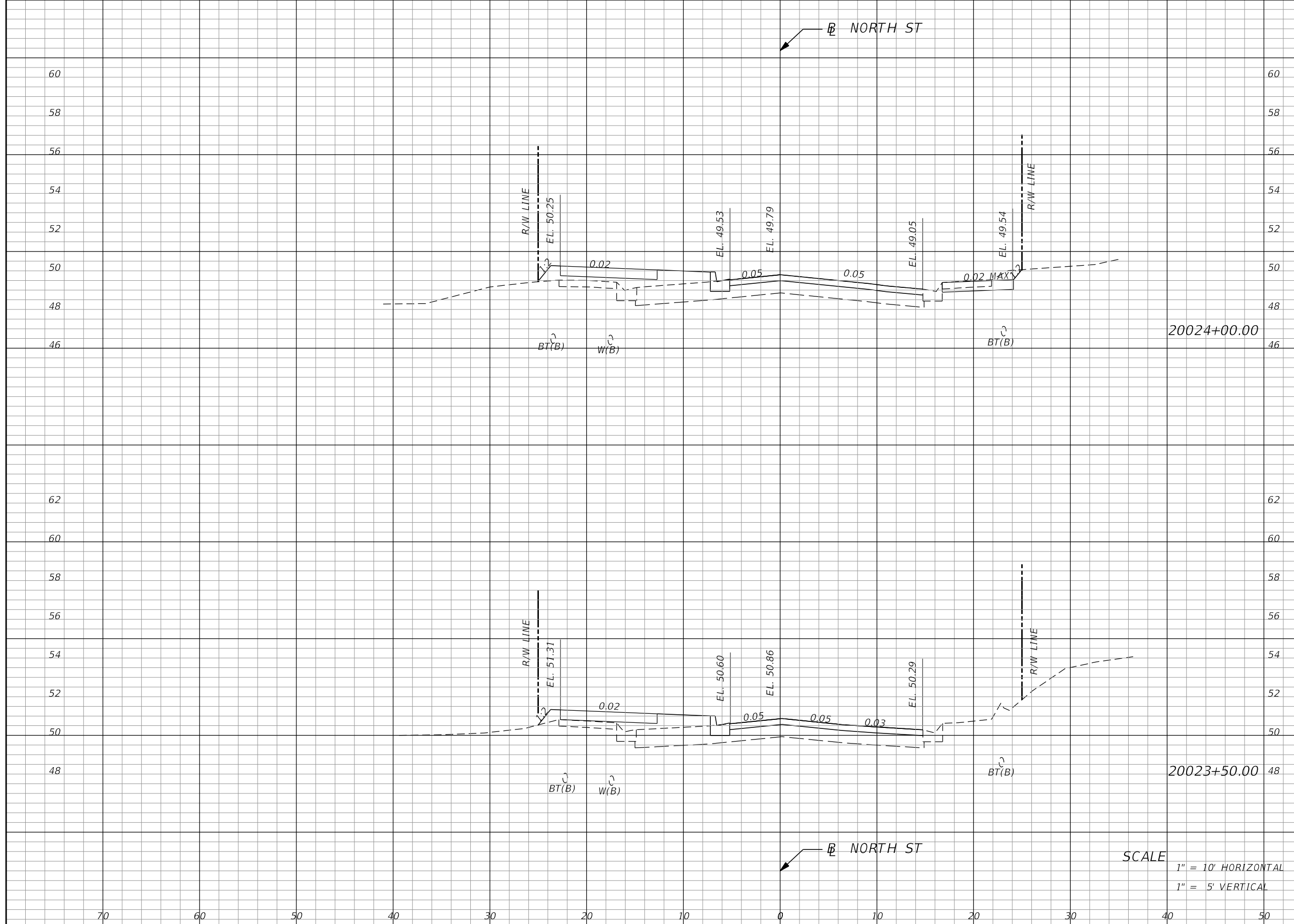


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 203



Regular		Exc.		Embankment	
A	V	A	V	A	V
3.04	14.31	0	11.36	2.81	19.01

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

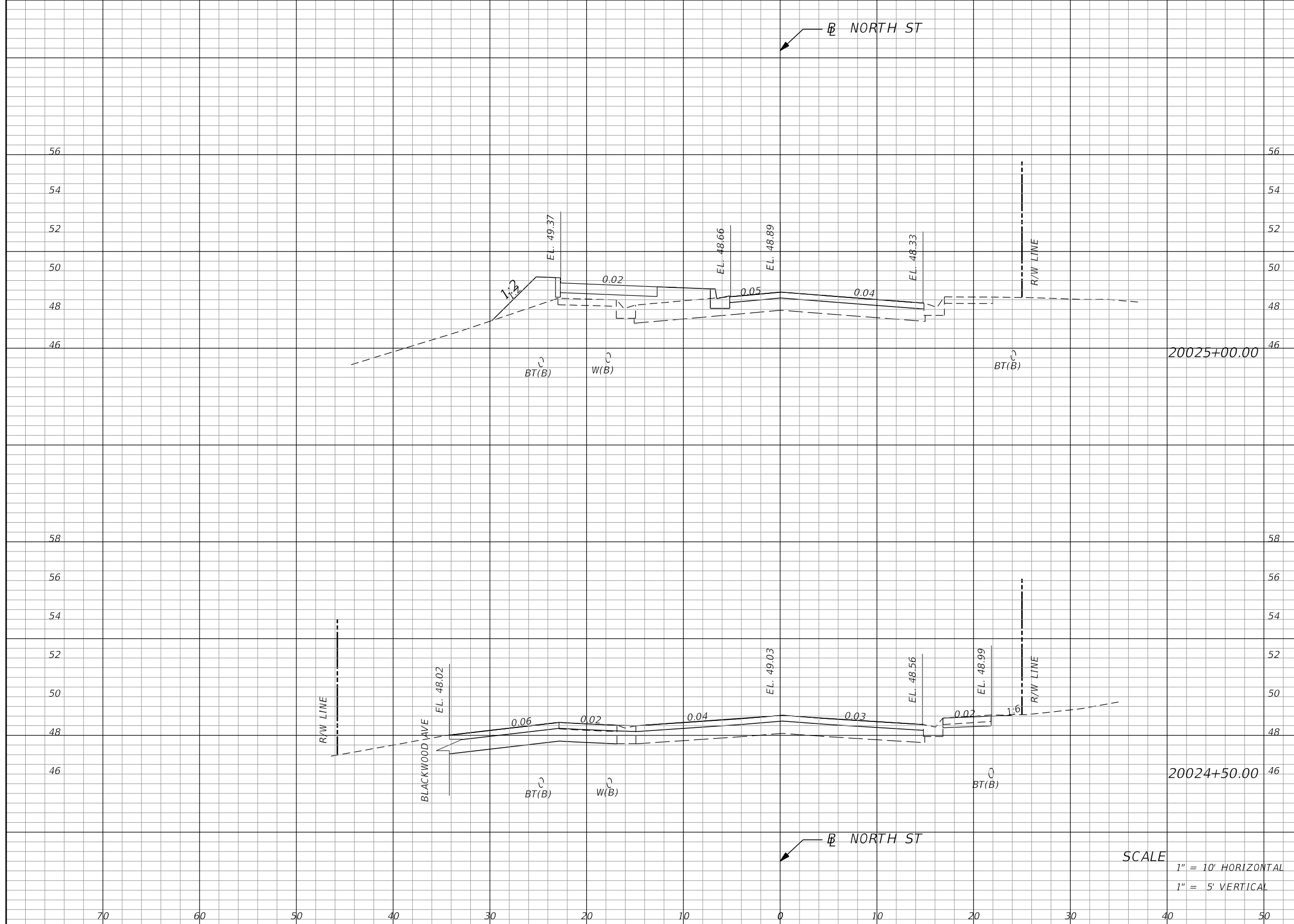


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 204



Regular		Exc.		Embankment	
A	V	A	V	A	V
	0			23.54	
0		16.64			
	11.50			15.41	
12.42		0			

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

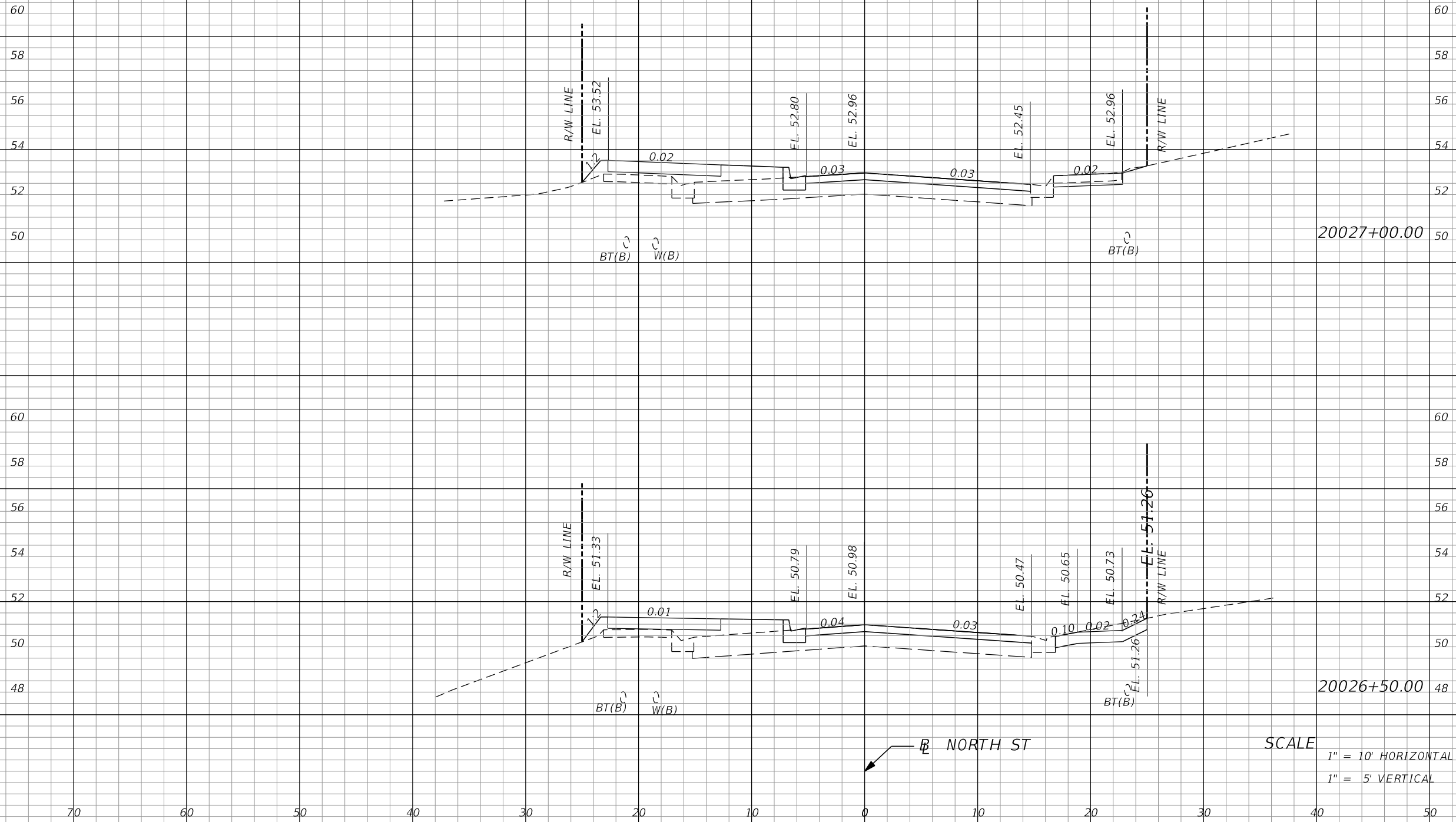
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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.
 205



Regular		Exc.		Embankment	
A	V	A	V	A	V
	6.70			9.68	
1.20		9.42			
	5.77			17.19	
5.03		9.15			

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

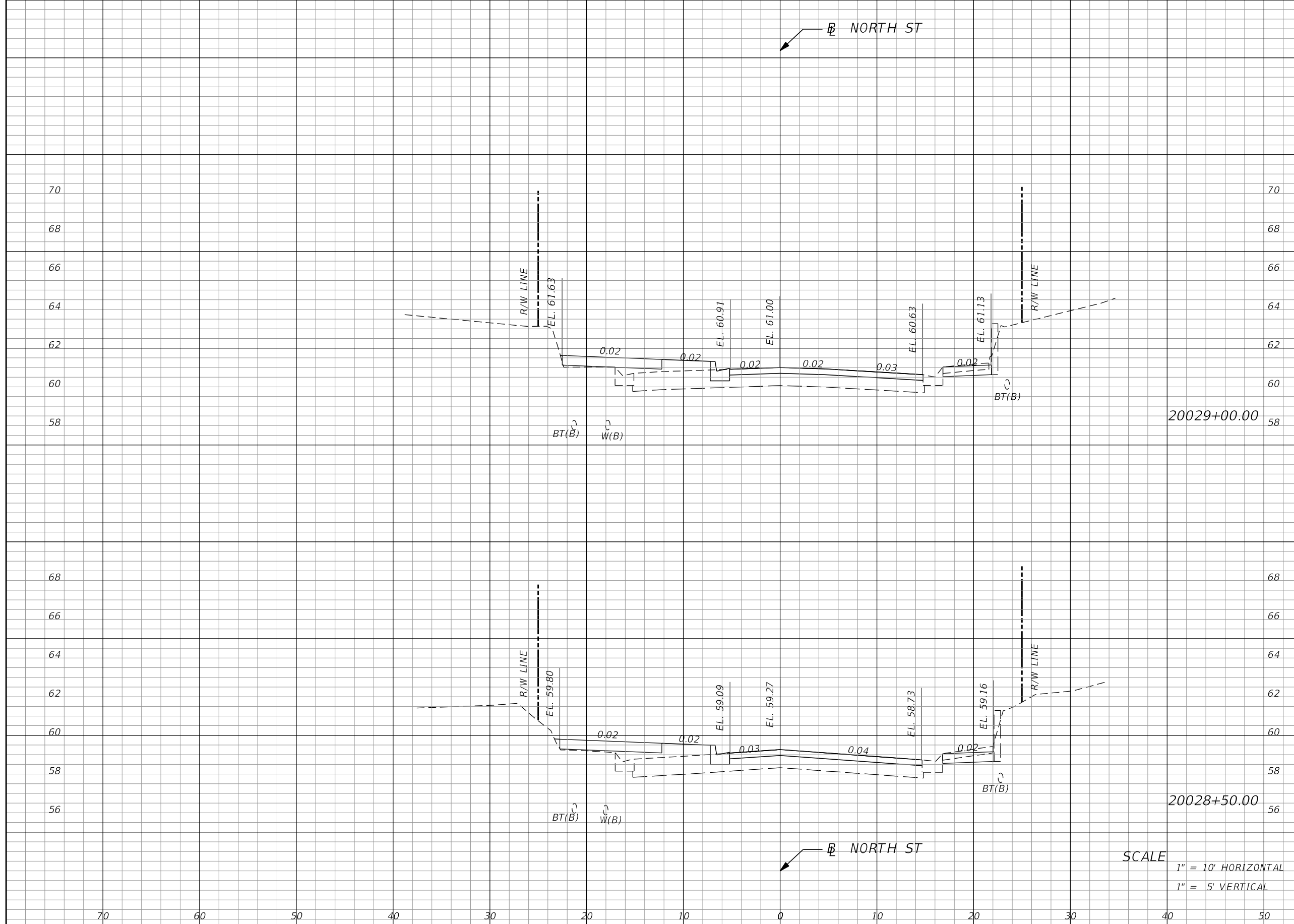


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 207



Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.22		4.94
1.32				5.34	
			2.74		10.85
1.64				6.38	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

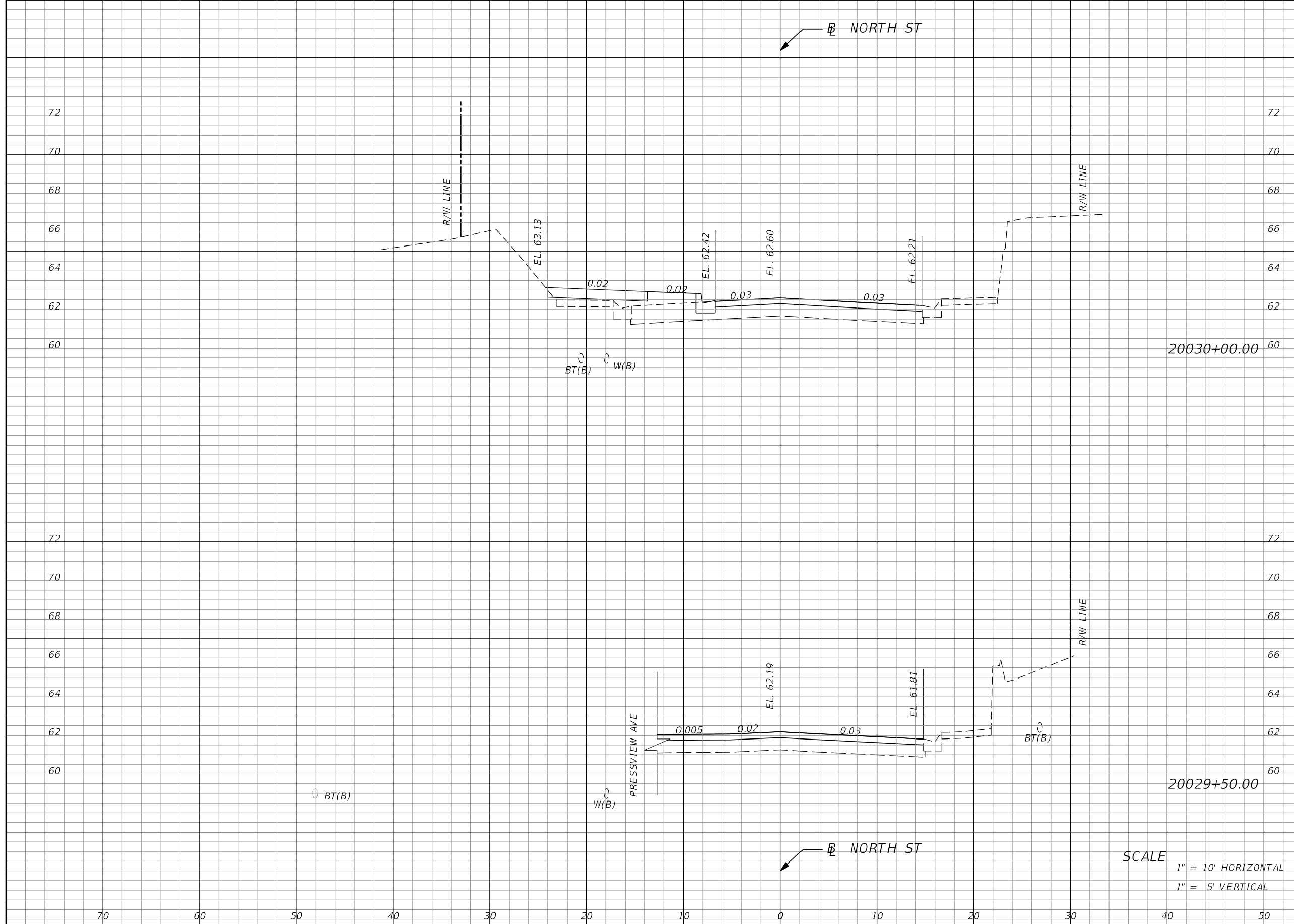


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 209



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.10		10.20
0.11				7.66	
			0.10		7.09
0				0	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

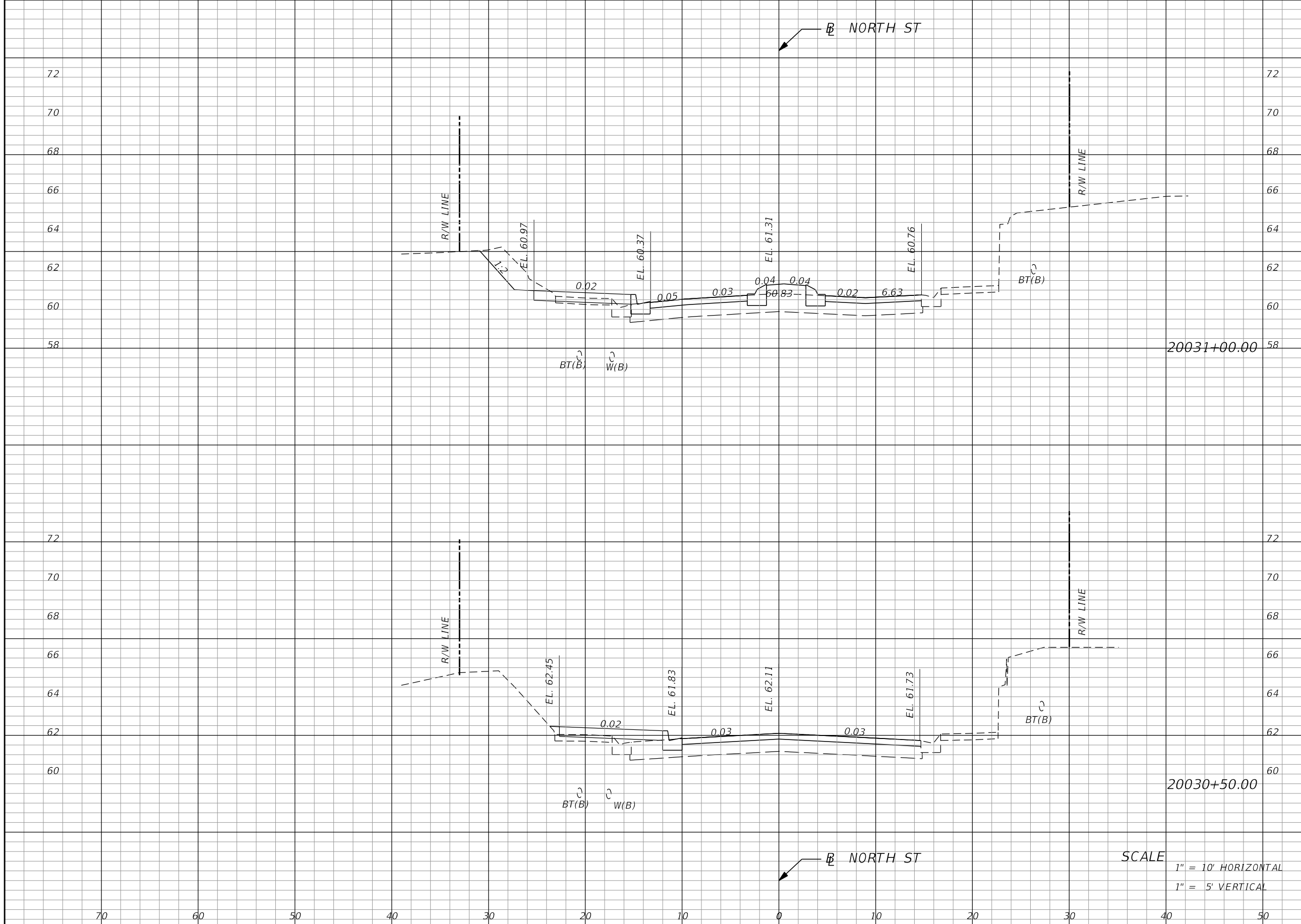


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 210

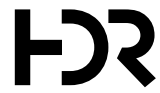


Regular		Exc.		Embankment	
A	V	A	V	A	V
			17.76		3.61
7.08				3.89	
			6.55		6.72
0				3.36	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

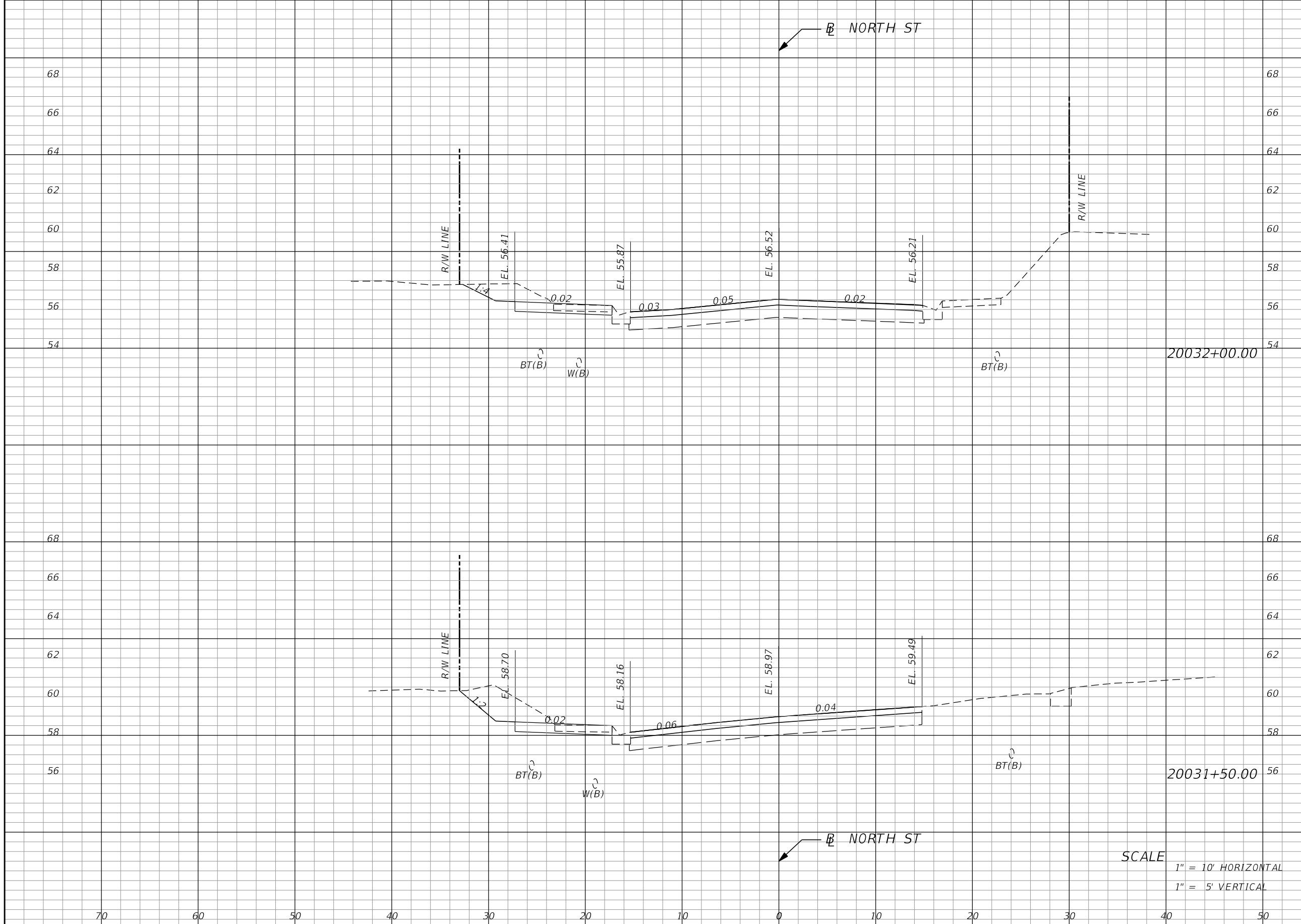


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 211



Regular		Exc.		Embankment	
A	V	A	V	A	V
			11.90		2.58
8.14			0		
			18.74		0
12.10			0		

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

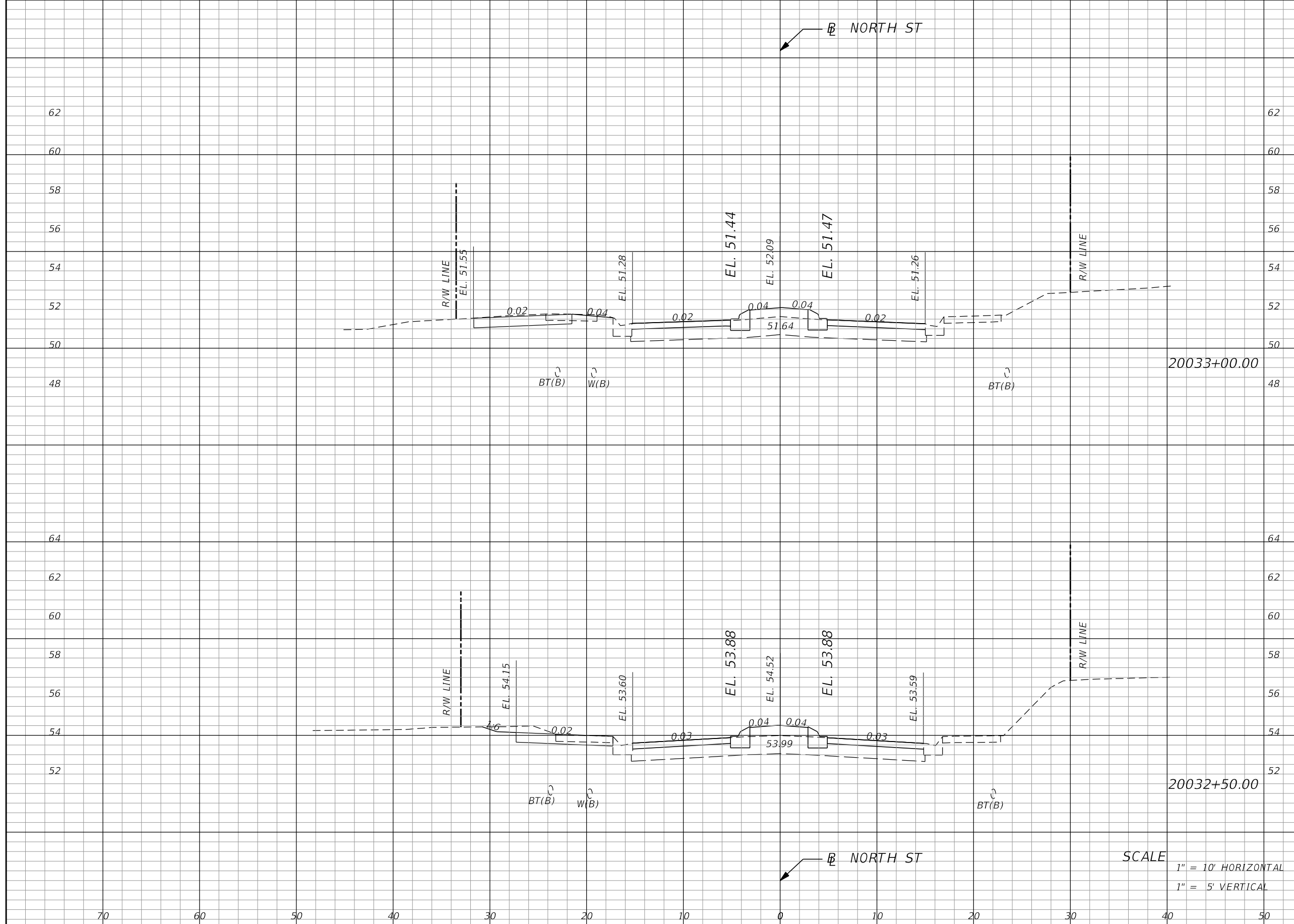


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
212



Regular		Exc.		Embankment	
A	V	A	V	A	V
			7.76		2.76
4.38				2.80	
			8.42		5.17
4.71				2.79	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



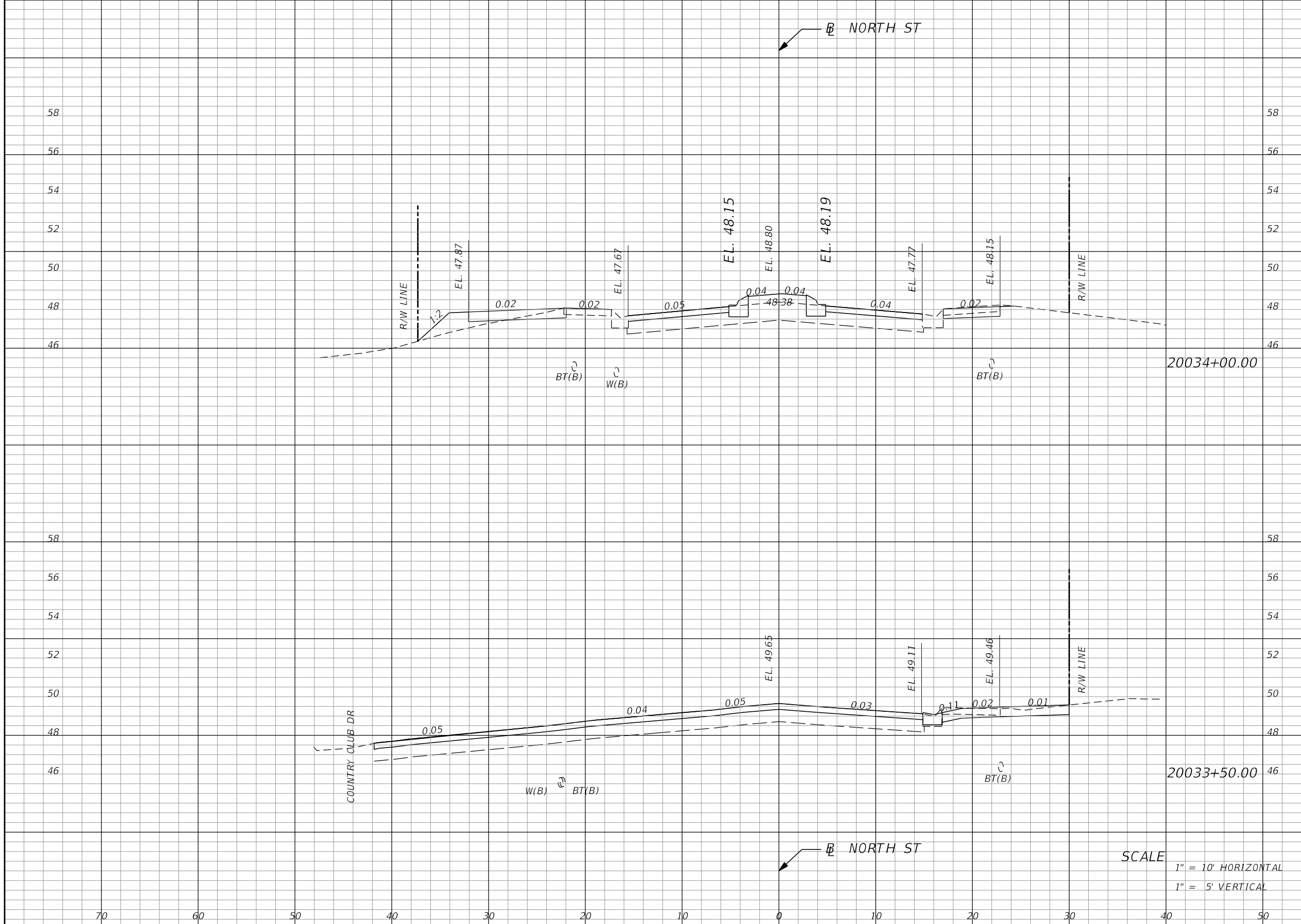
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

CROSS SECTIONS

SHEET NO.
213



Regular		Exc.		Embankment	
A	V	A	V	A	V
			11.54		10.55
2.75				8.20	
	6.25				7.76
4.00				0.18	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



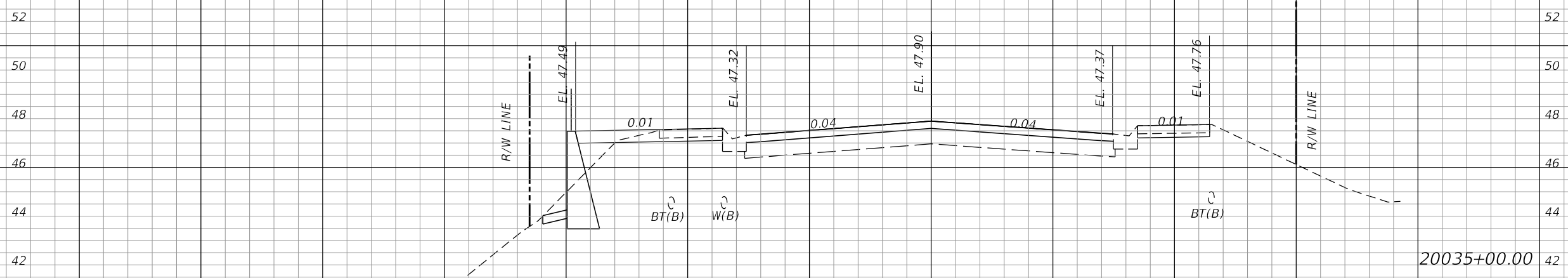
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

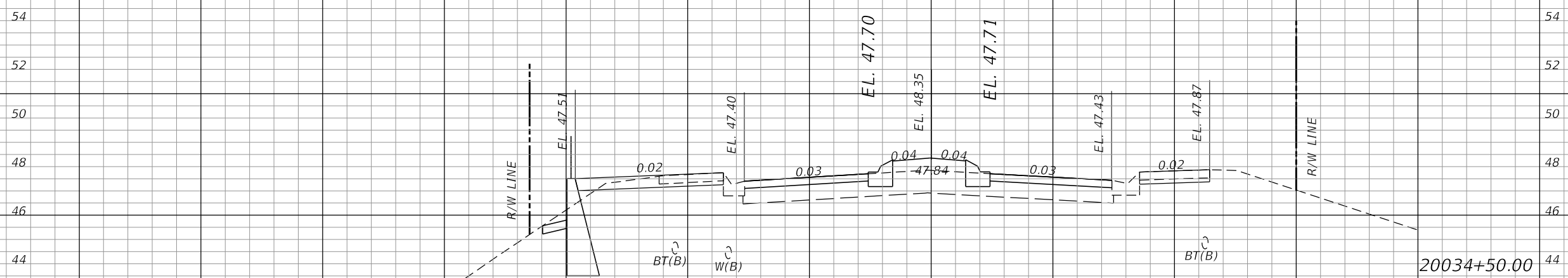
CROSS SECTIONS

SHEET NO.
 214

Regular		Exc.		Embankment	
A	V	A	V	A	V



		15.32		4.32	
		7.64		1.83	



		16.07		4.65	
		9.71		3.20	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

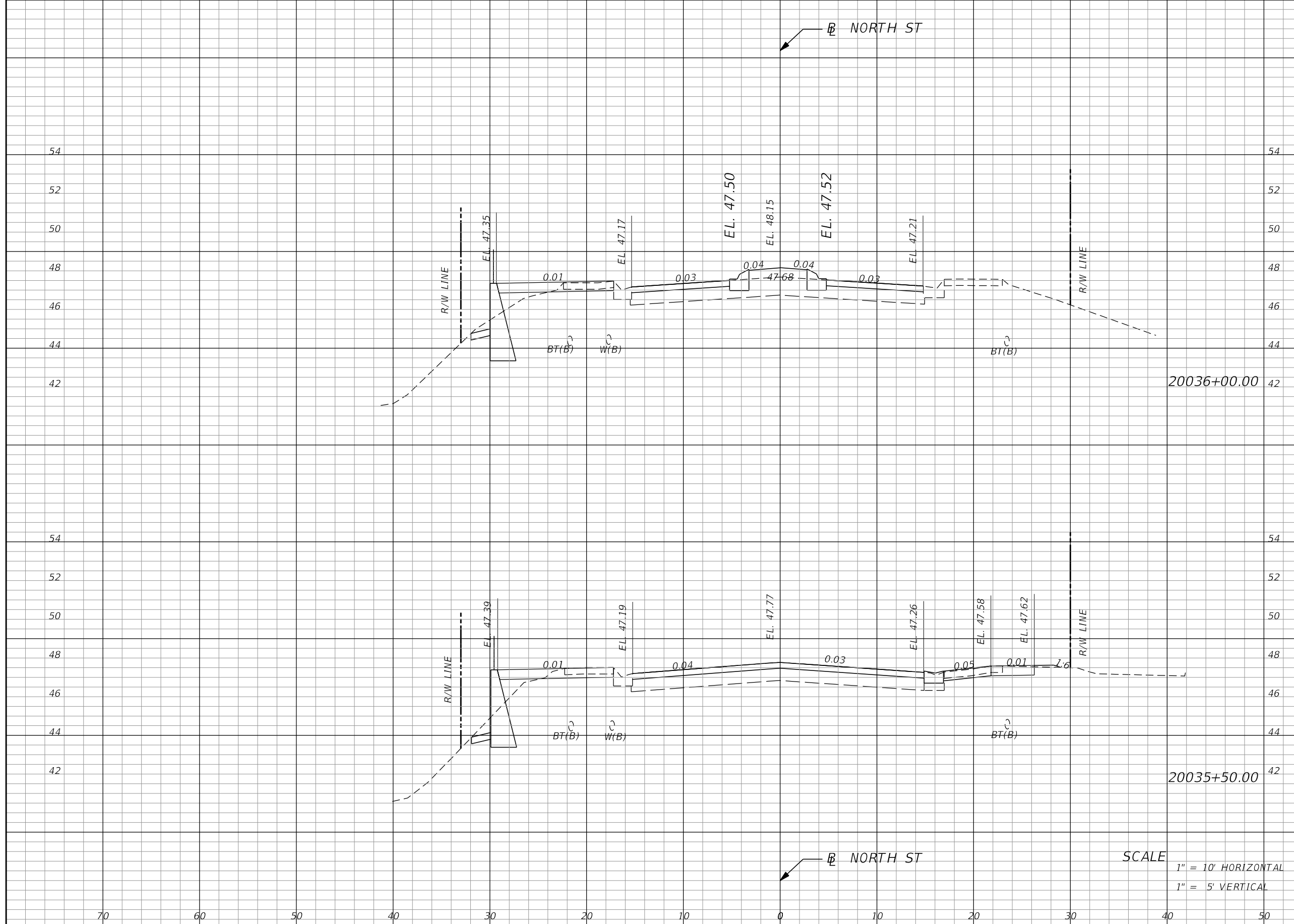


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 215



Regular		Exc.		Embankment	
A	V	A	V	A	V
	11.35			11.02	
6.36		7.56			
	14.13			9.63	
8.90		2.84			

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

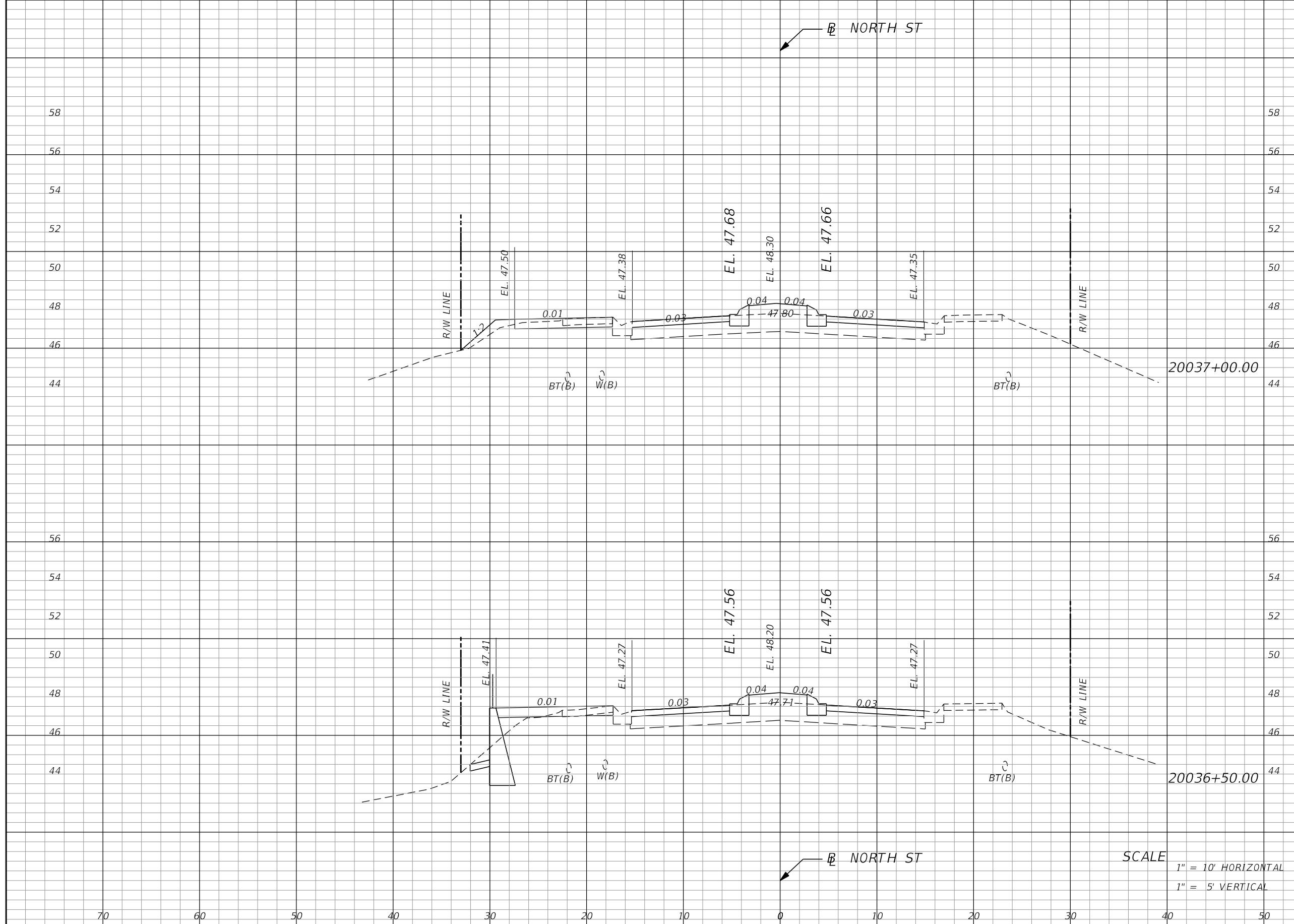


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 216



Regular		Exc.		Embankment	
A	V	A	V	A	V
			4.44		9.80
2.43				4.93	
	7.71				8.59
5.89				4.35	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



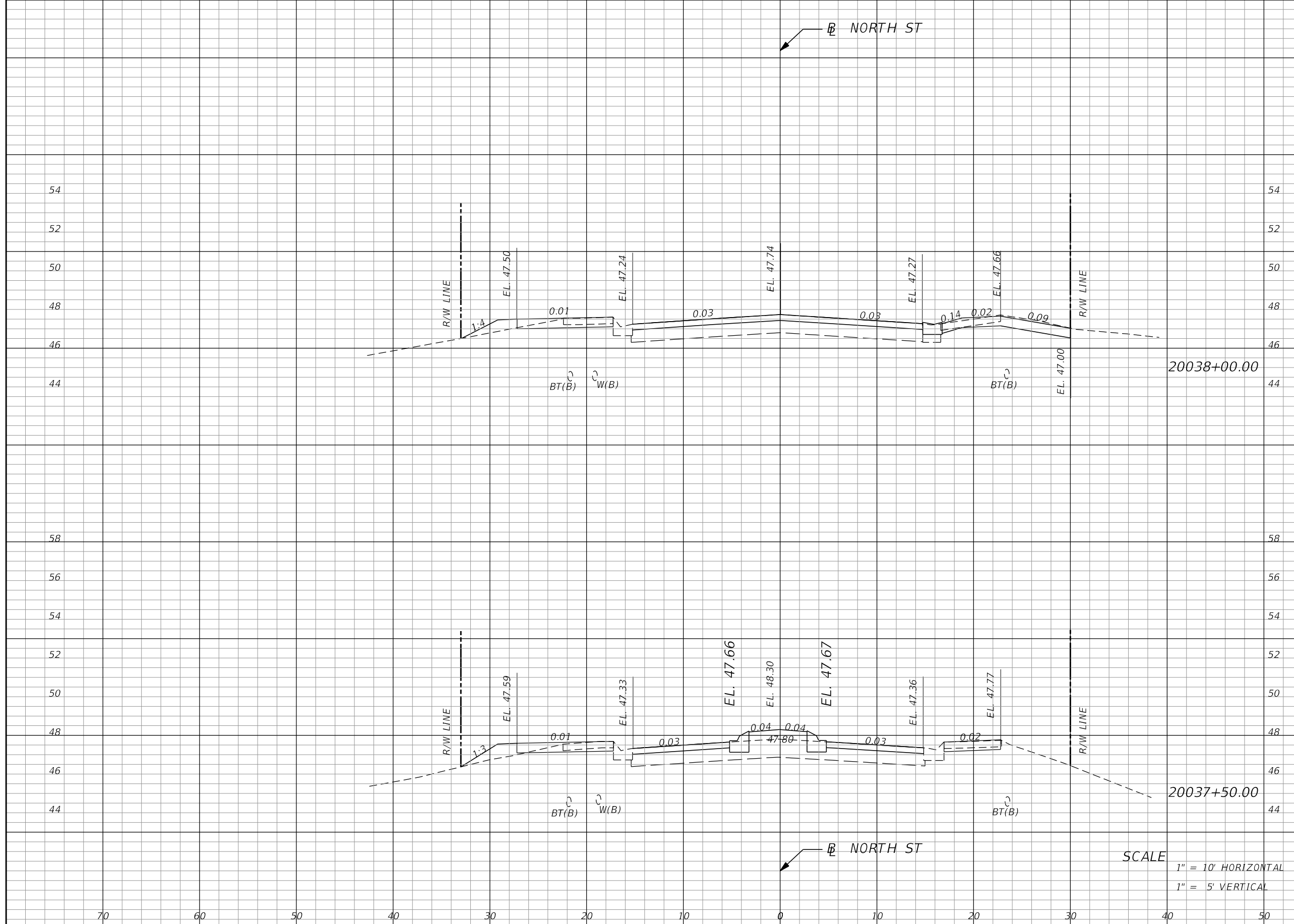
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE I

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

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

CROSS SECTIONS

SHEET NO.
 217



Regular		Exc.		Embankment	
A	V	A	V	A	V
			7.51		7.27
6.30				2.93	
			8.03		7.95
2.37				5.65	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

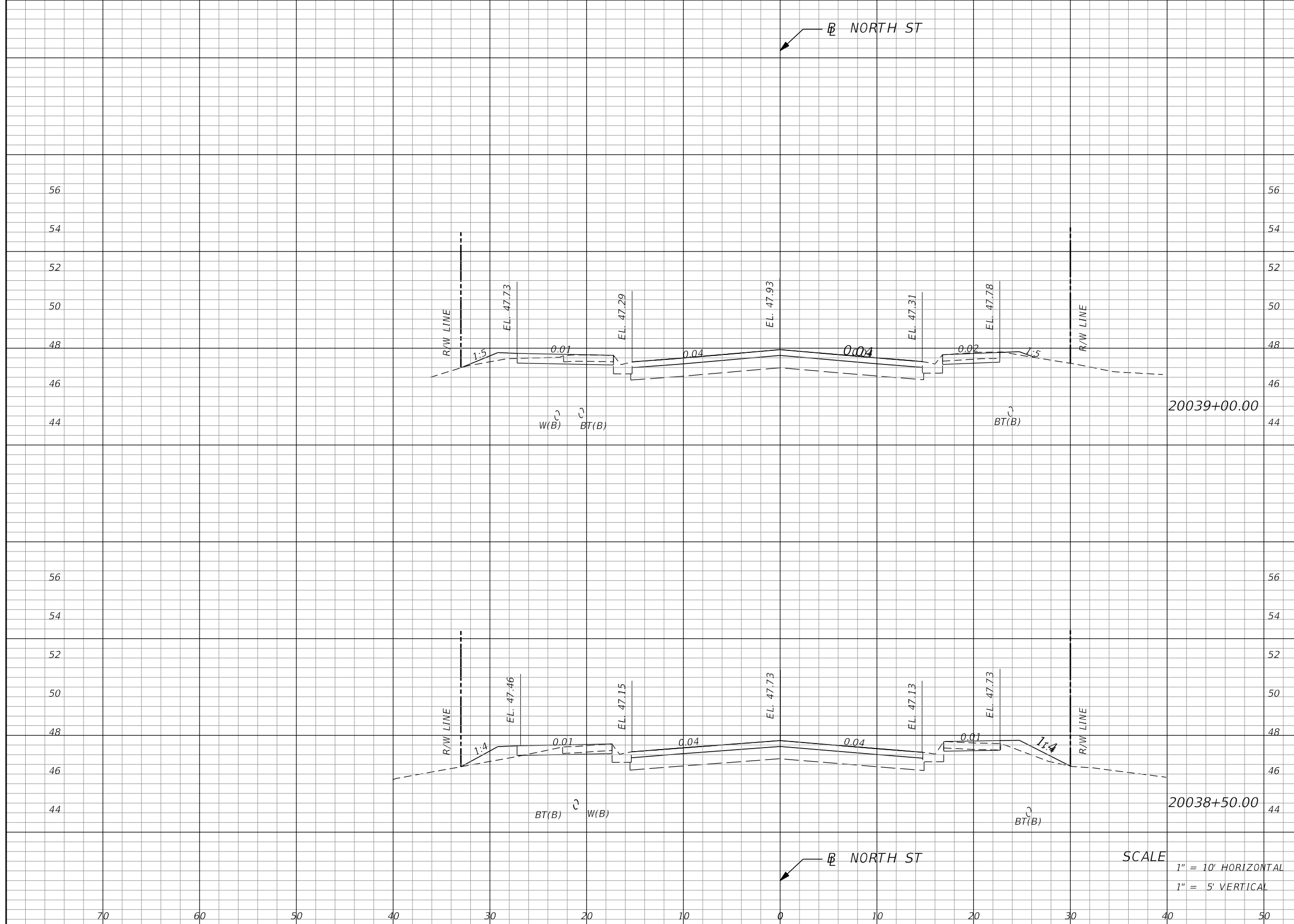
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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.
 218

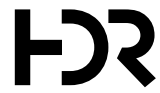


Regular		Exc.		Embankment	
A	V	A	V	A	V
			5.76		4.45
3.38				1.62	
			4.80		6.05
1.81				4.92	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

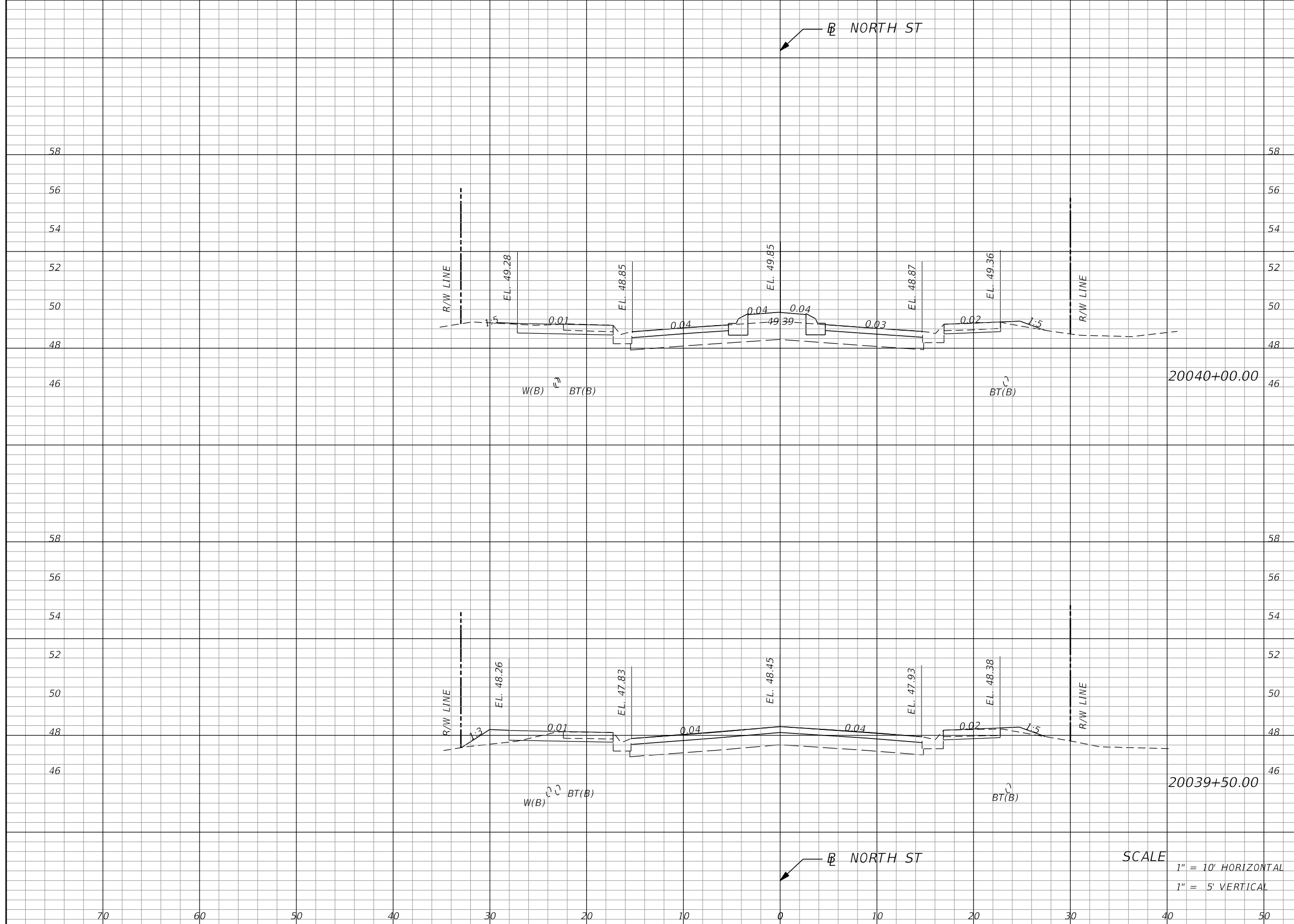


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 219



Regular		Exc.		Embankment	
A	V	A	V	A	V
			7.48		6.06
3.99				3.43	
	6.33				6.12
2.84				3.19	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

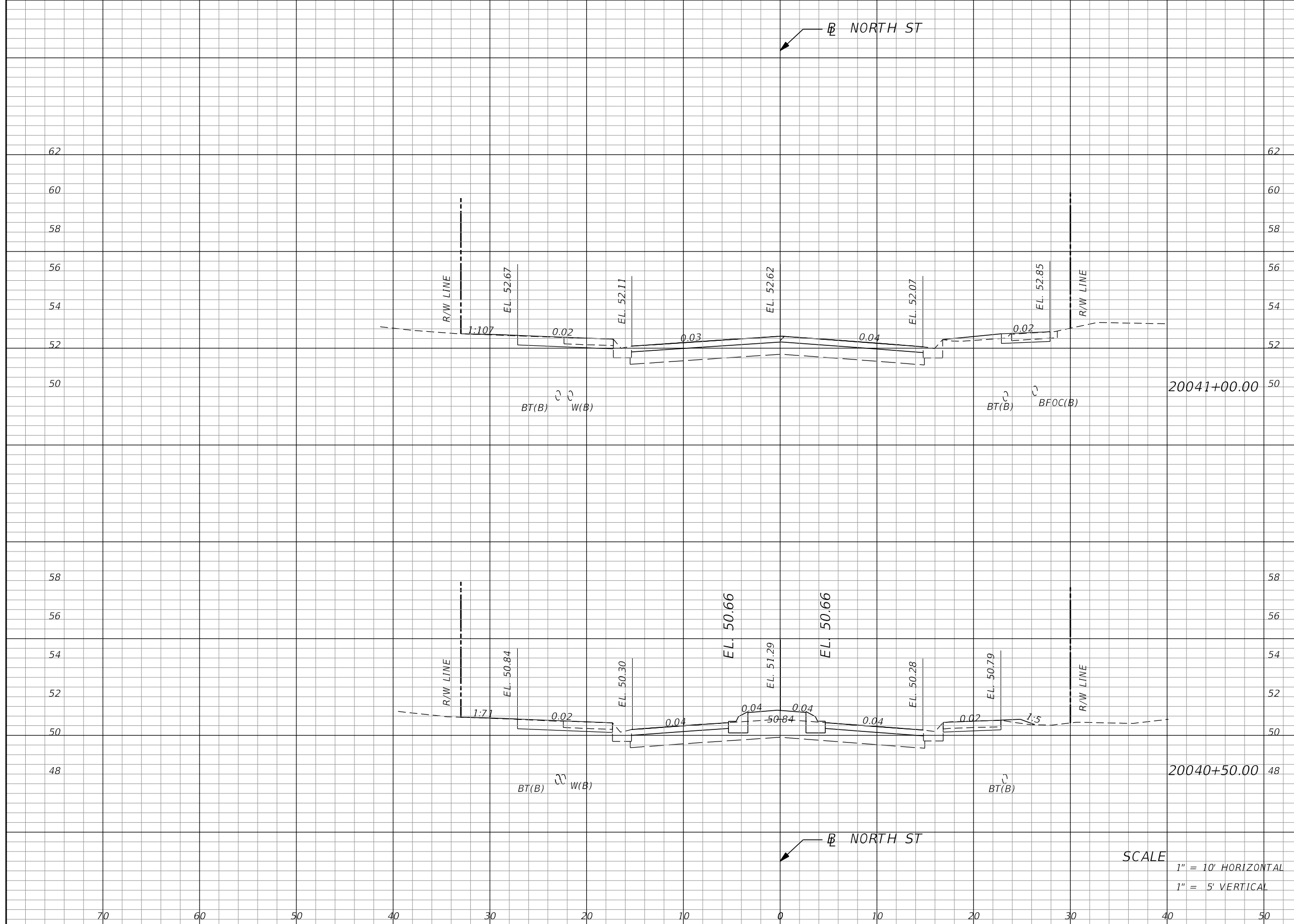


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 220



Regular		Exc.		Embankment	
A	V	A	V	A	V
	11.91		4.35		
7.12		4.58			
	10.38		7.13		
4.09		3.12			

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

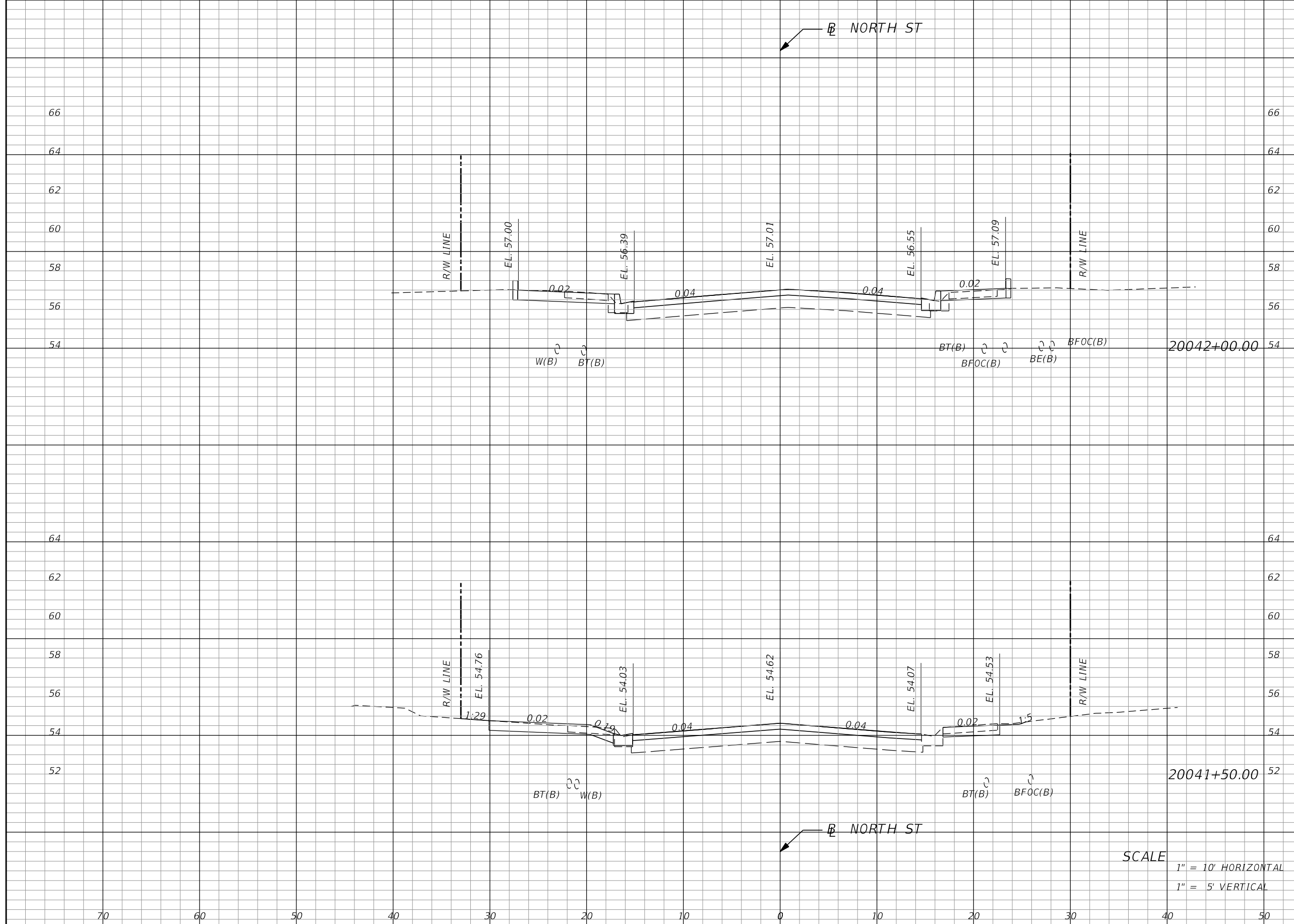
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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.
 221



Regular		Exc.		Embankment	
A	V	A	V	A	V
			4.28		0.73
4.62				0.79	
			9.59		0.84
5.74				0.12	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

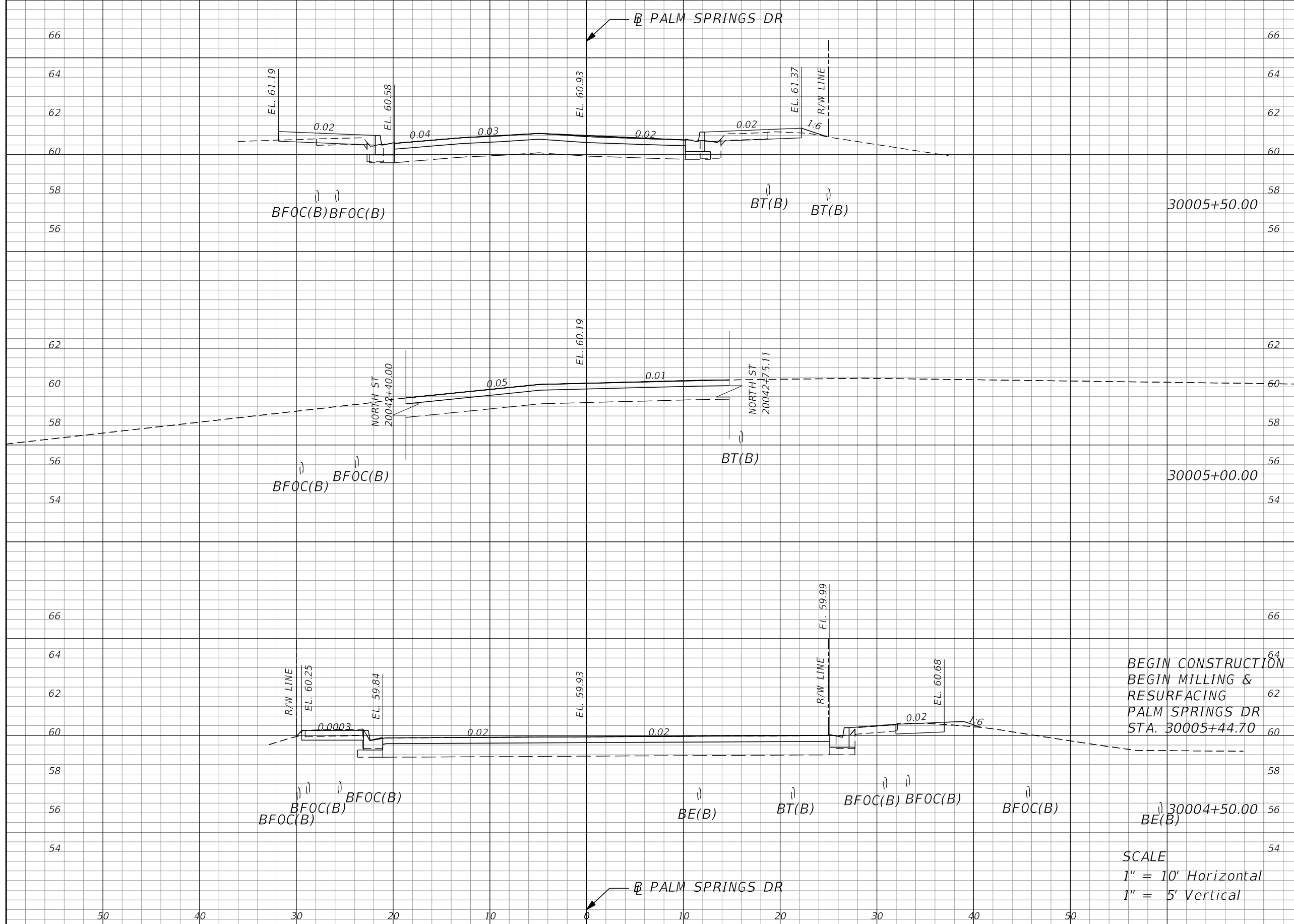


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 222



Regular Exc.		Embankment	
A	V	A	V
	9.46	0.78	
5.08		0.28	
	4.70	0.26	
0.00		0.00	
	7.70	0.74	
8.32		0.80	

BEGIN CONSTRUCTION
 BEGIN MILLING &
 RESURFACING
 PALM SPRINGS DR
 STA. 30005+44.70

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

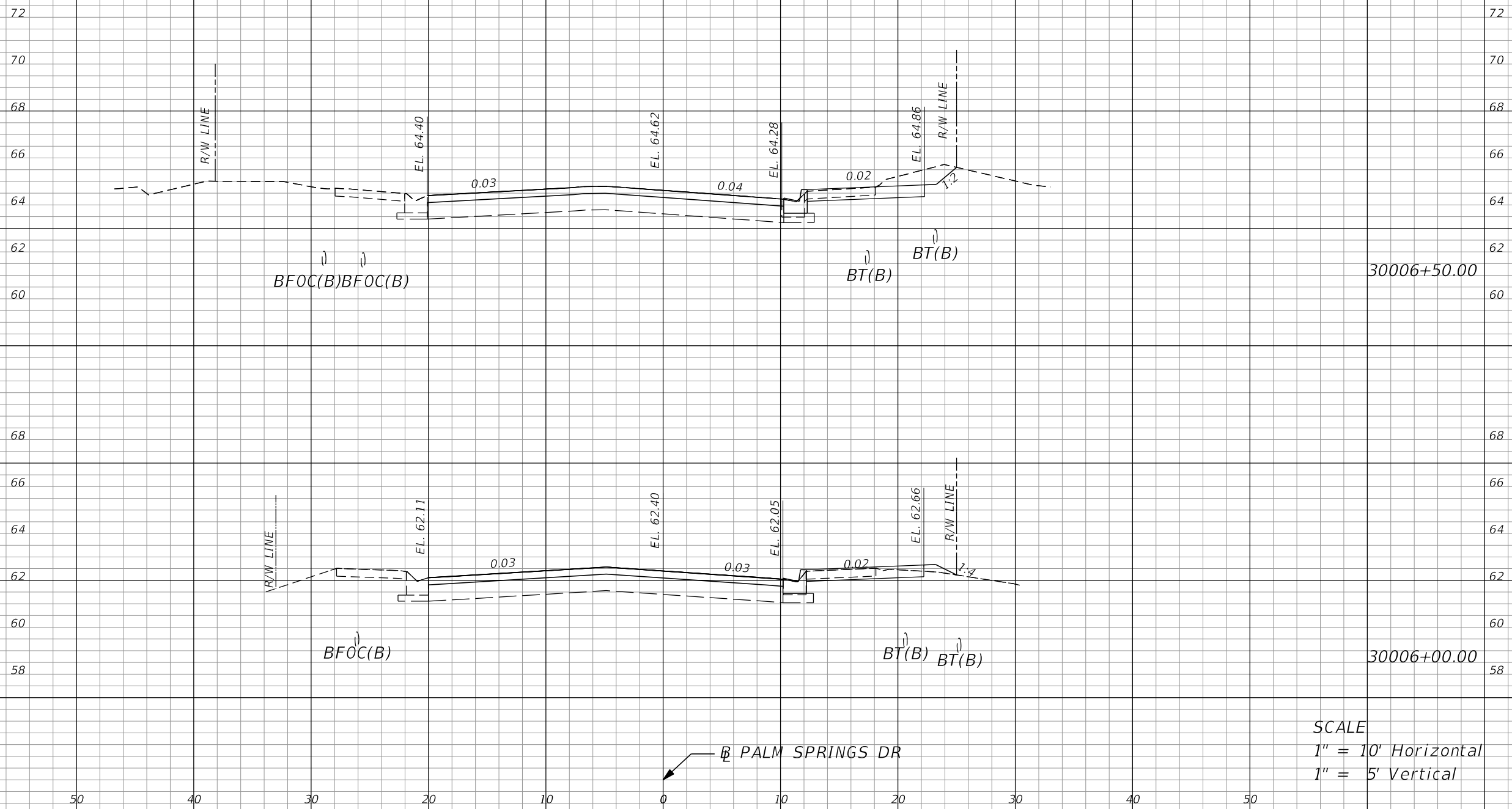
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
224

← B PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V



72					
70					
68					
66					
64					
62		12.73			3.10
60					
62	30006+50.00	9.11		0.67	
60					
68					
66					
64					
62		13.19			1.14
60					
58	30006+00.00	5.13		0.57	

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

← B PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

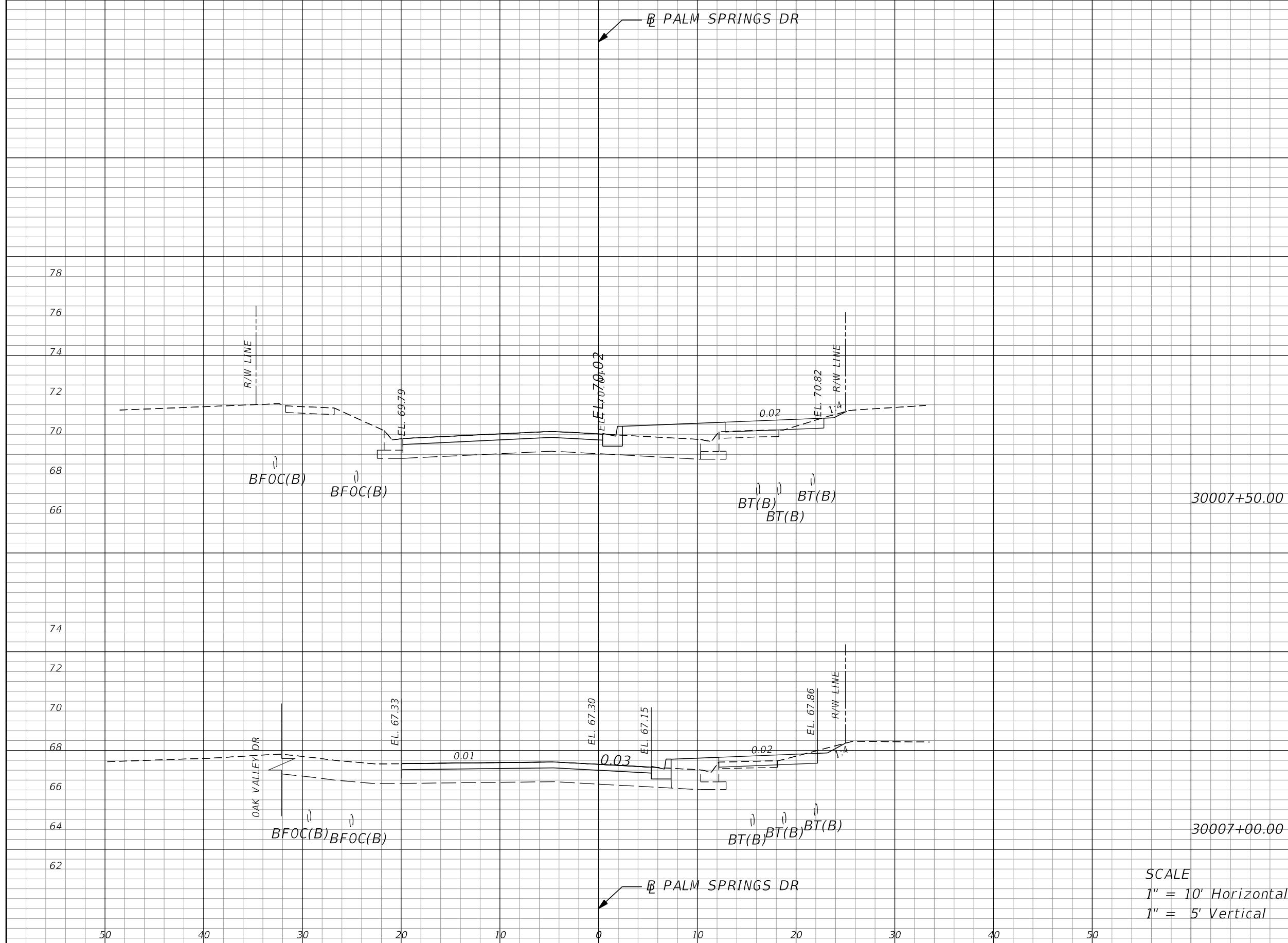


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 225



Regular		Exc.		Embankment	
A	V	A	V	A	V
	6.35			2.89	
0.00		0.00			
4.64	4.30	2.68		2.48	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

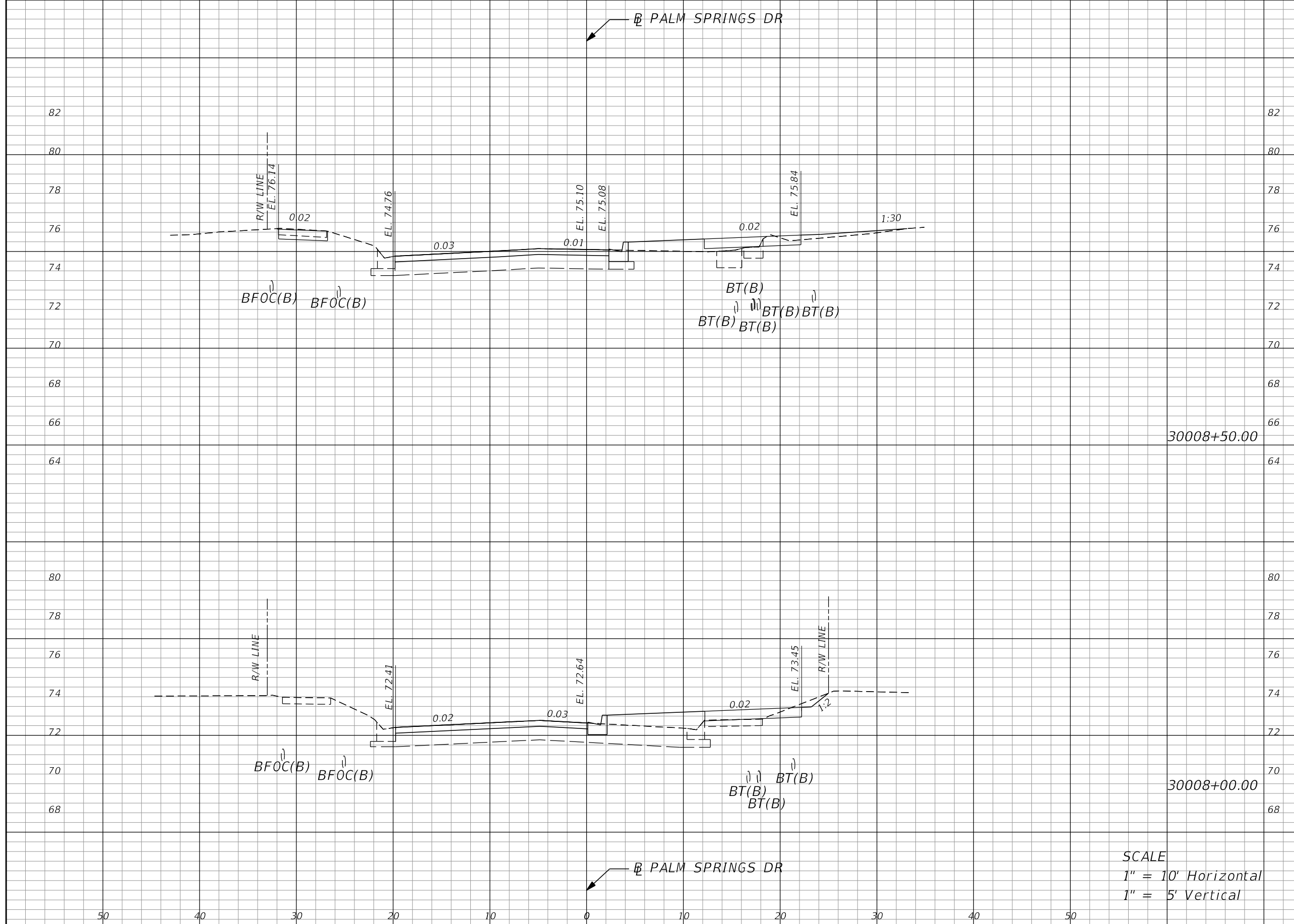


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 226



Regular		Exc.		Embankment	
A	V	A	V	A	V
			16.37		5.96
5.39			6.44		
			11.35		8.86
6.86			3.12		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

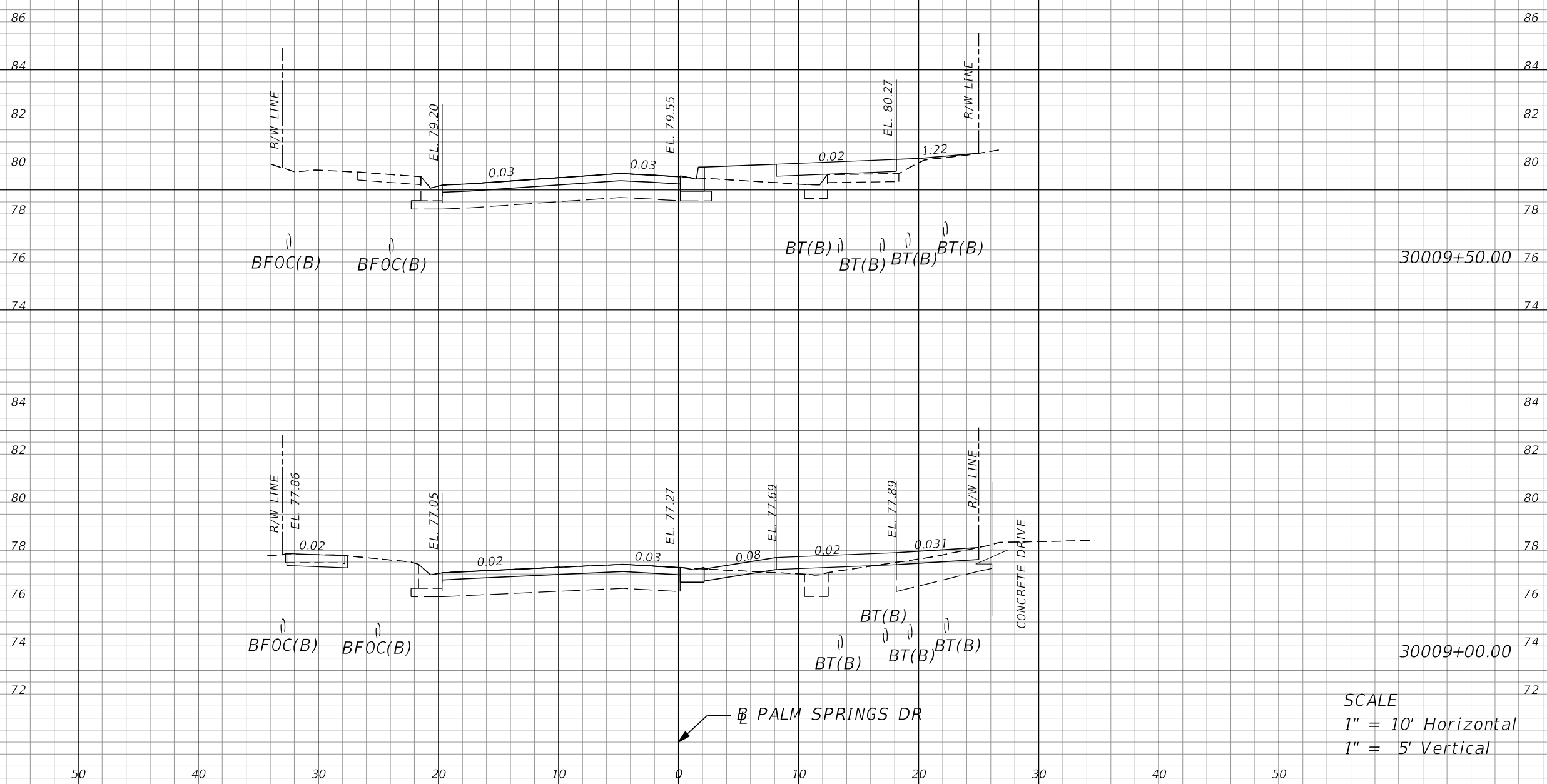
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
 227

← B PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V



86					
84					
82					
80					
78					
76		2.39			11.82
74					
84					
82					
80					
78					
76	30009+50.00	1.14			6.54
74					
84					
82					
80					
78					
76					
74	30009+00.00	12.29			6.05
72					

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

← B PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

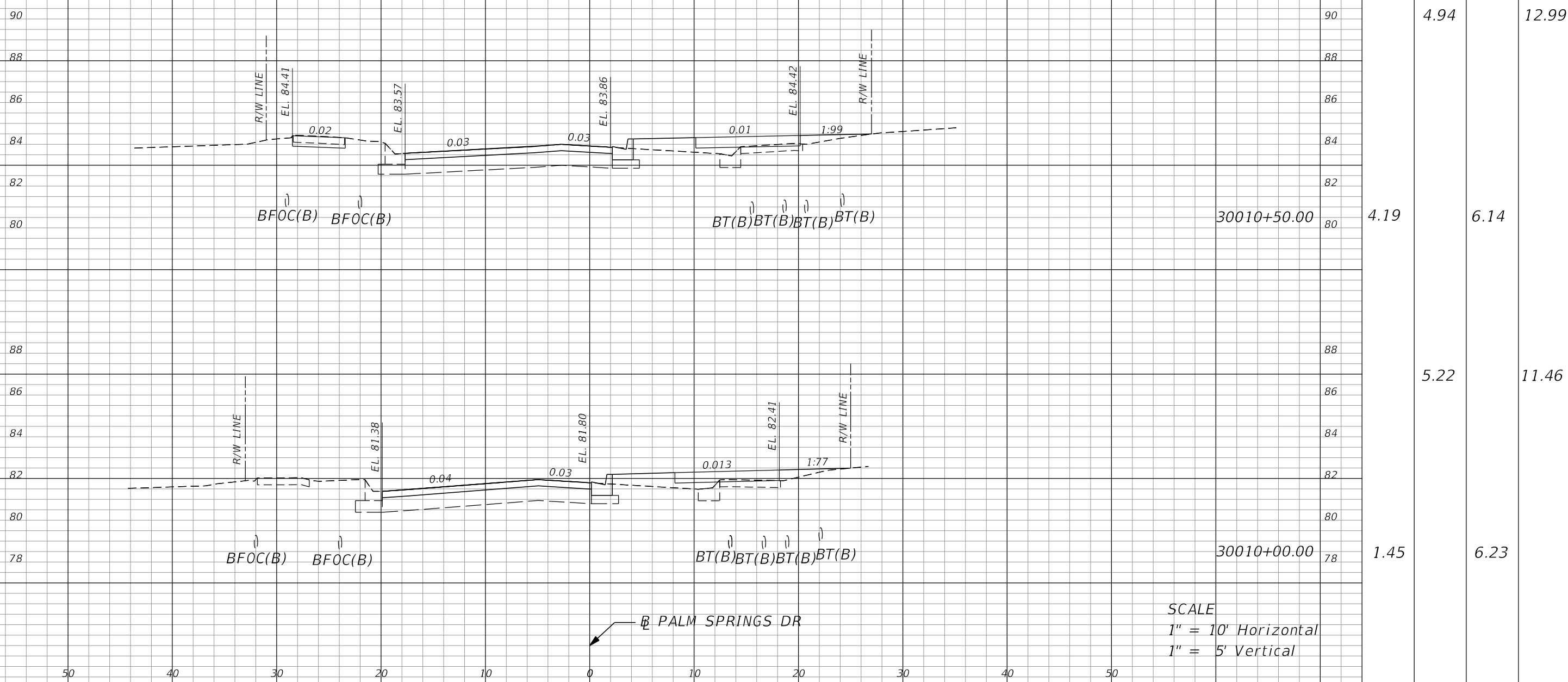
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
 228

← P₂ PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V



← P₂ PALM SPRINGS DR

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
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 I

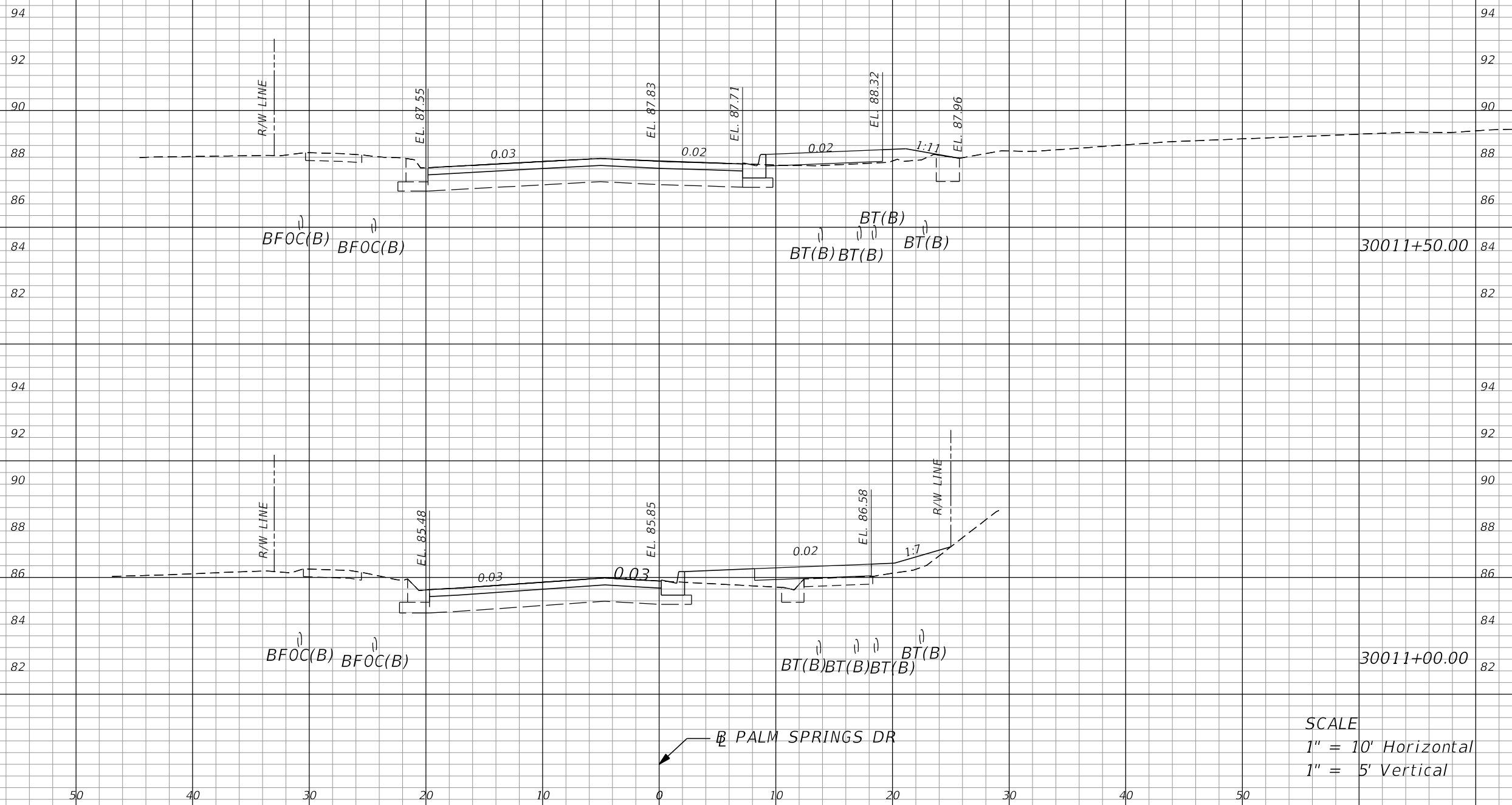
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
229

← B PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V



0.00	3.76	2.30	4.92
1.14	1.06	7.88	9.43

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

← B PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

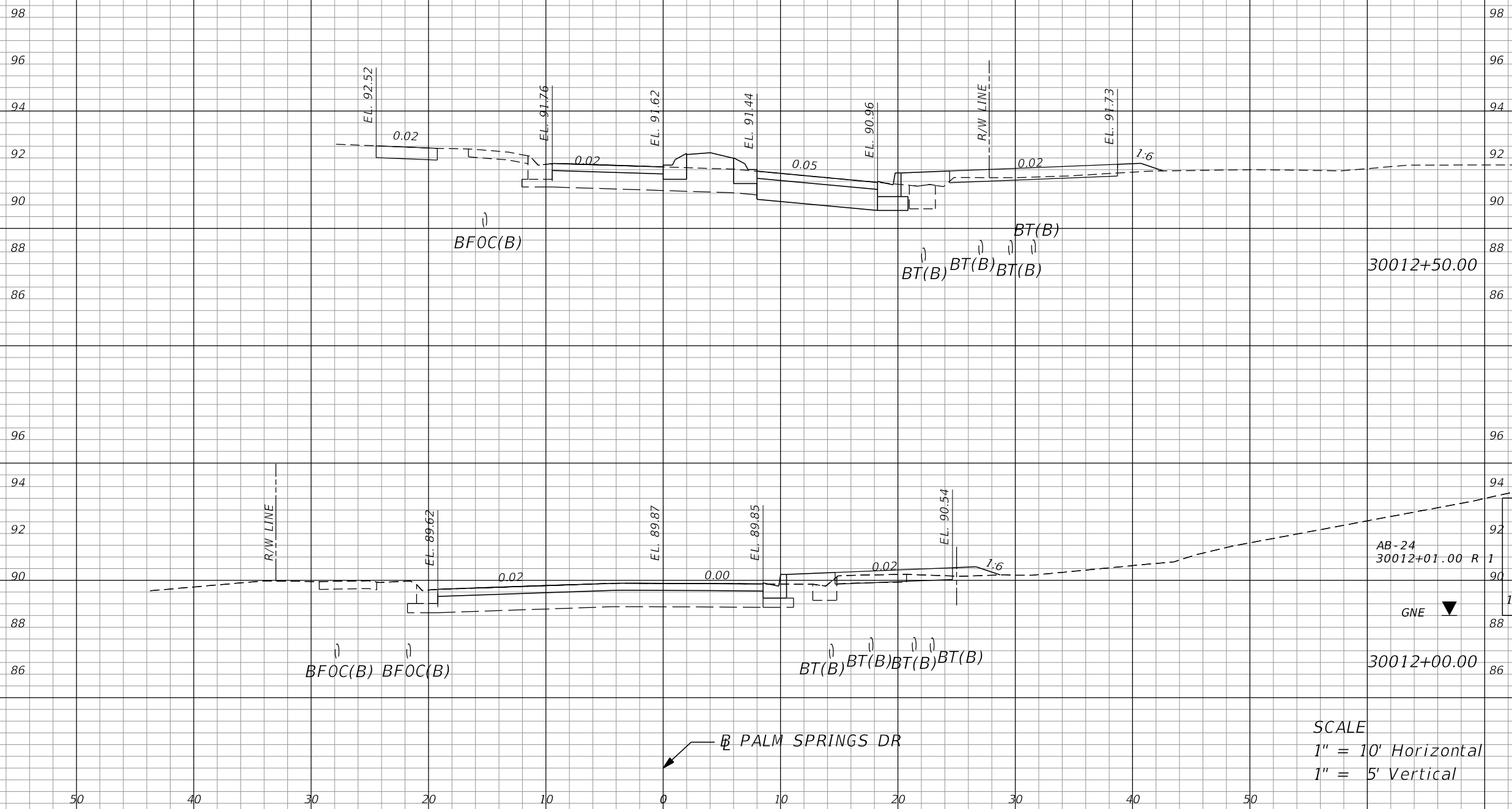
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
 230

← B PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V



21.93	7.36	21.47	5.74	23.64	8.11	4.06	3.02
-------	------	-------	------	-------	------	------	------

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

← B PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

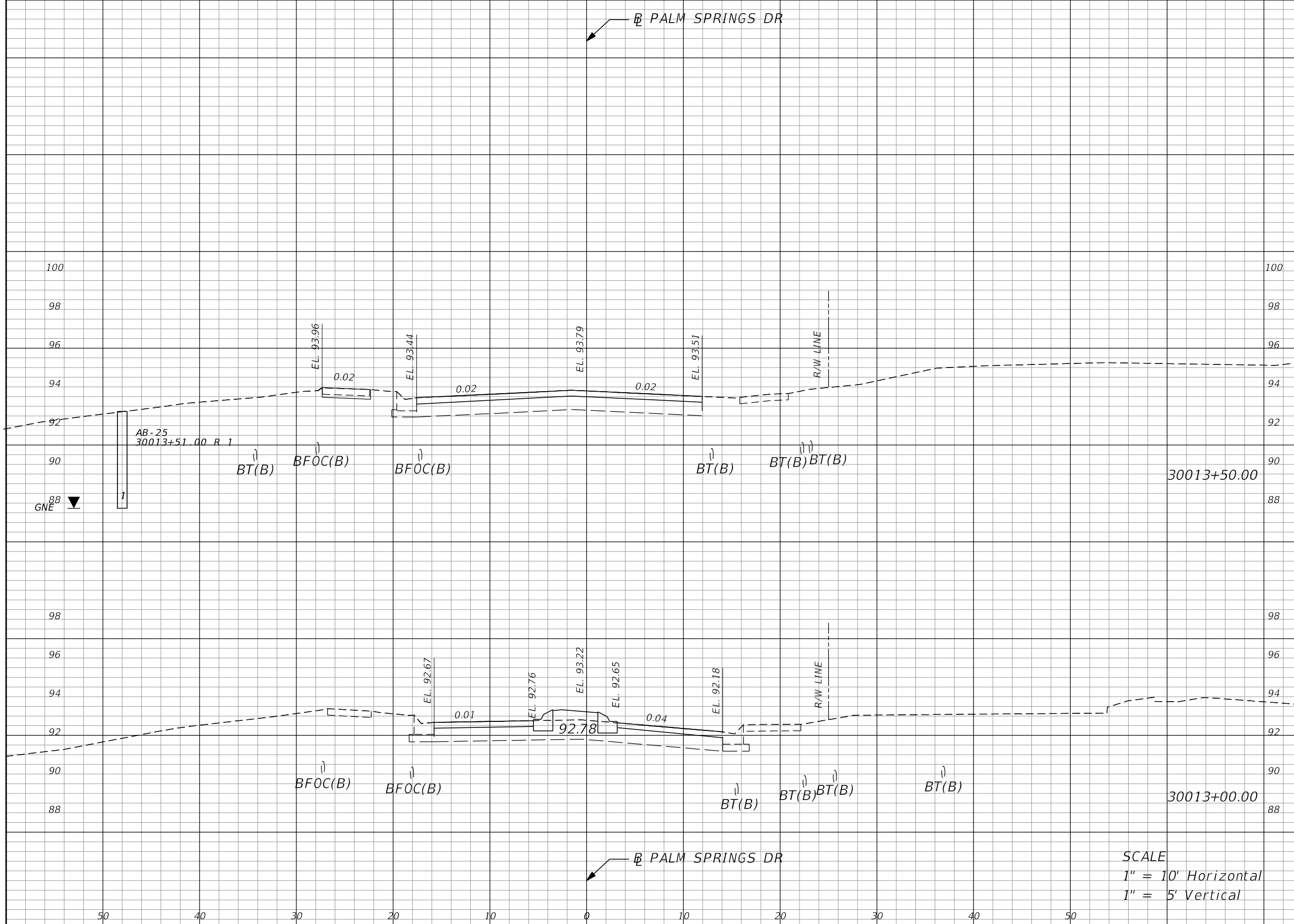
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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.
 231



Regular		Exc.		Embankment	
A	V	A	V	A	V
	5.32		0.00		0.00
2.48		0.00			
	4.35		2.05		
2.21		2.21			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

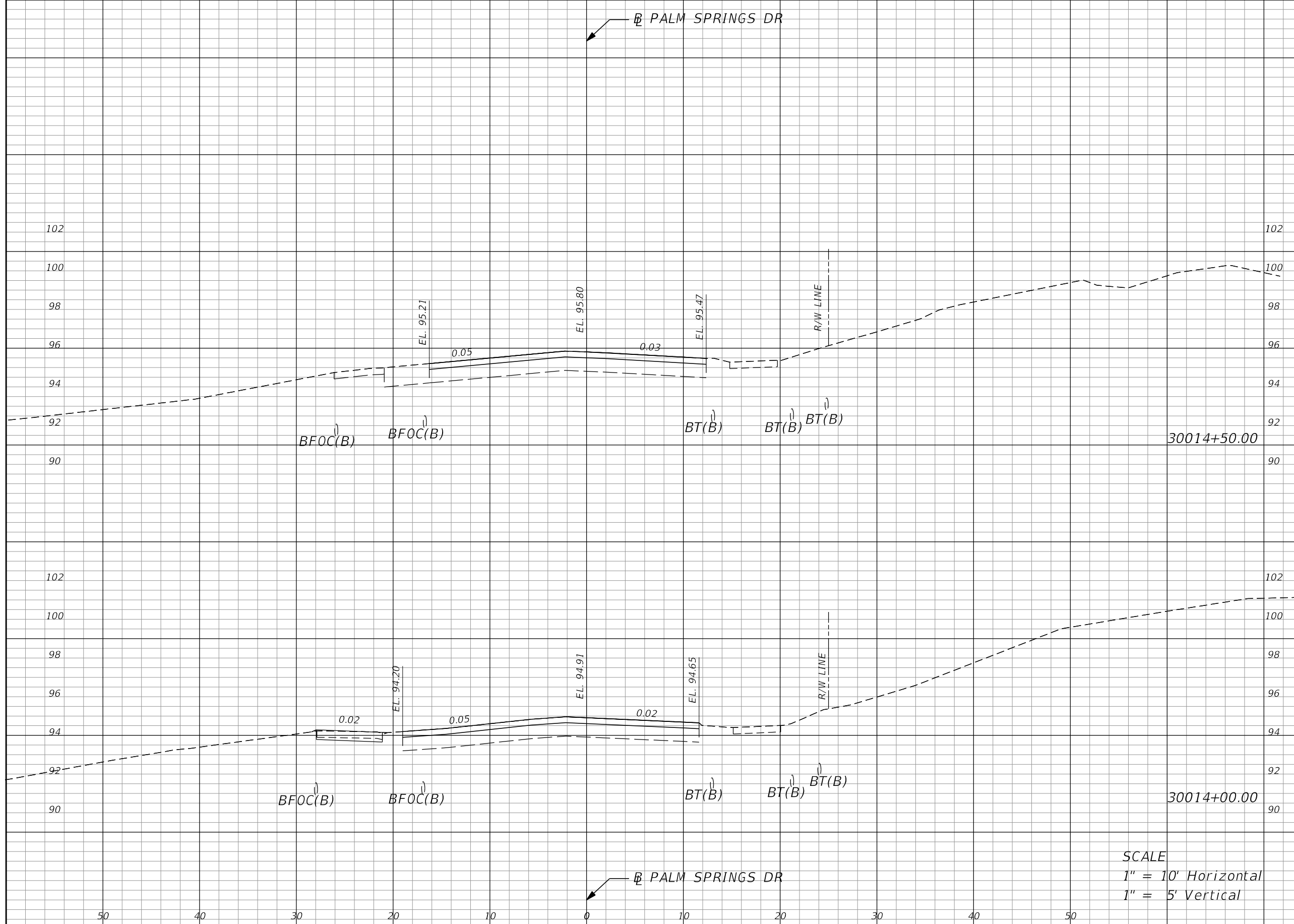


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 232



Regular		Exc.		Embankment	
A	V	A	V	A	V
0.00	0.00	0.00	0.00	0.00	0.00
3.26	0.00	0.00	0.00	0.00	0.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

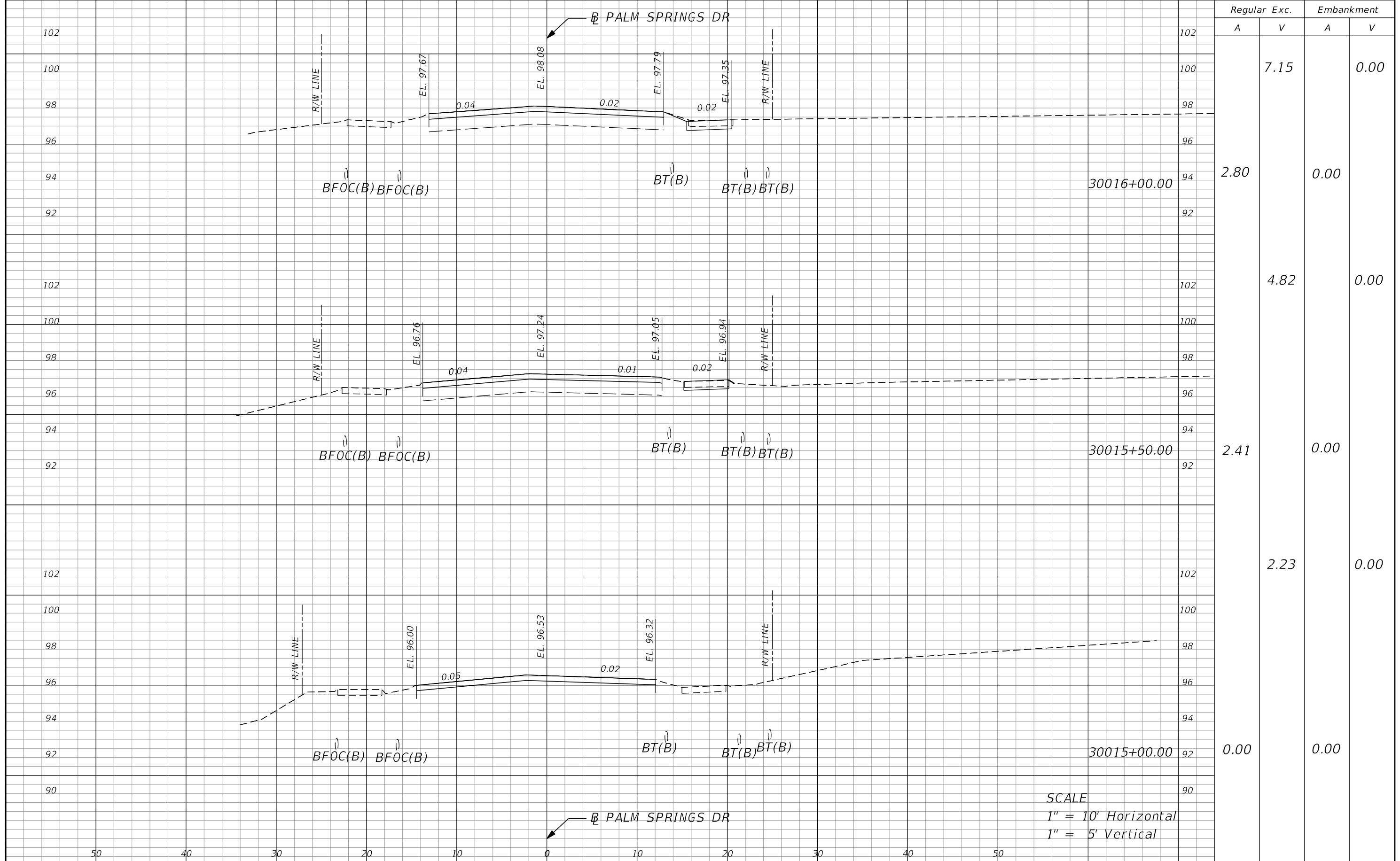
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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

CROSS SECTIONS

SHEET NO.
 233



Regular Exc.		Embankment	
A	V	A	V
	7.15	0.00	
2.80		0.00	
	4.82	0.00	
2.41		0.00	
	2.23	0.00	
0.00		0.00	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



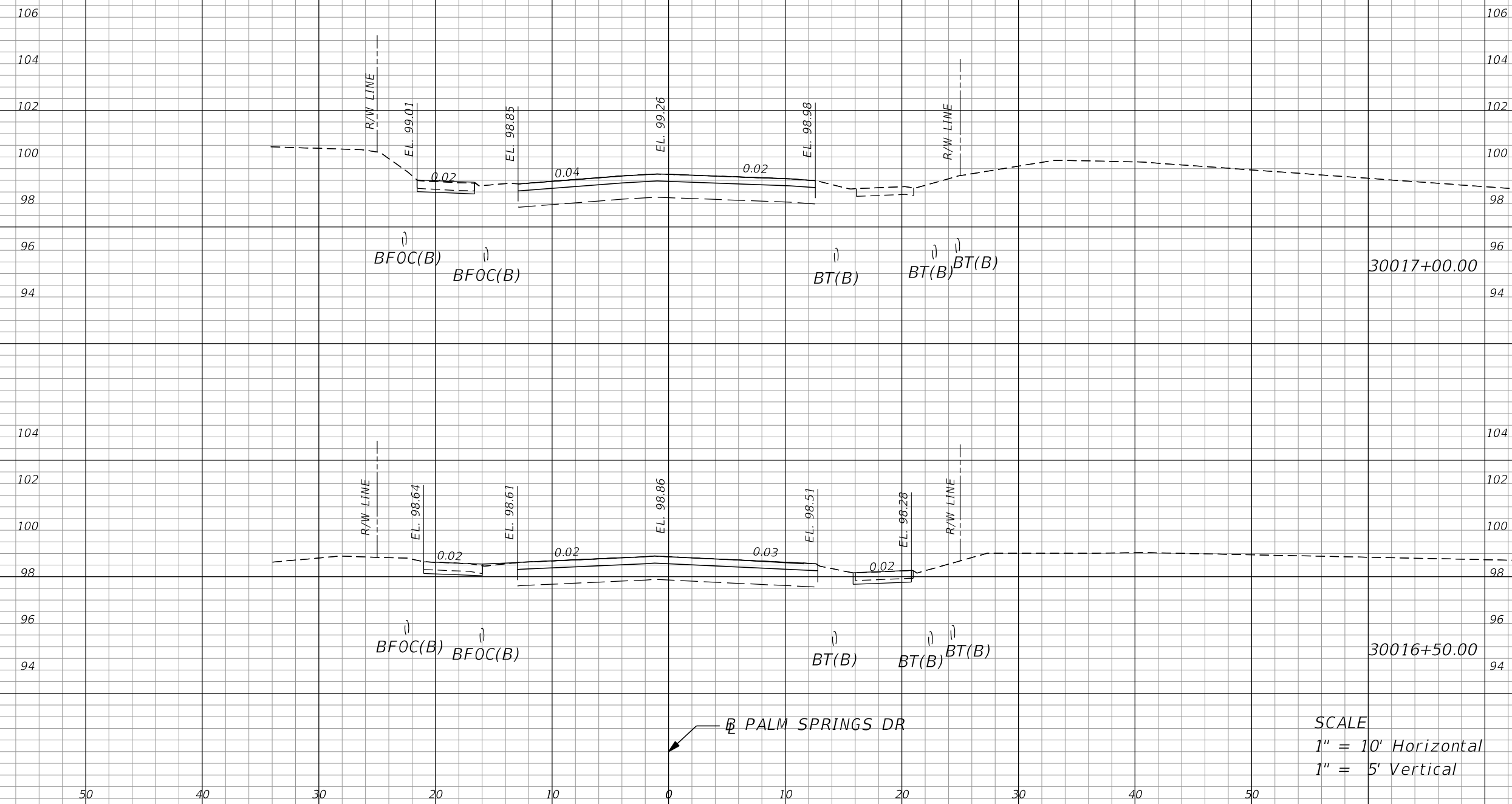
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE I

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

CROSS SECTIONS

SHEET NO.
234

↖ PALM SPRINGS DR



Regular		Exc.		Embankment	
A	V	A	V	A	V
	4.35		0.00		
2.27		0.00			
	6.66		0.00		
4.93		0.00			

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

↖ PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
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

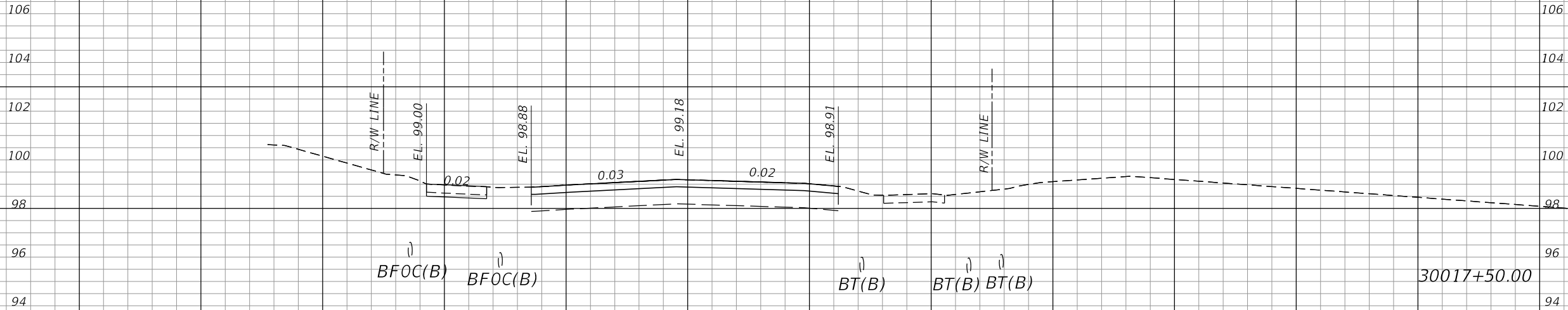
CROSS SECTIONS

SHEET NO.
235

↖ PALM SPRINGS DR



Regular		Exc.		Embankment	
A	V	A	V	A	V
			13.40		0.00
8.57			0.00		
			10.18		0.00
2.43			0.00		



↖ PALM SPRINGS DR

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
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

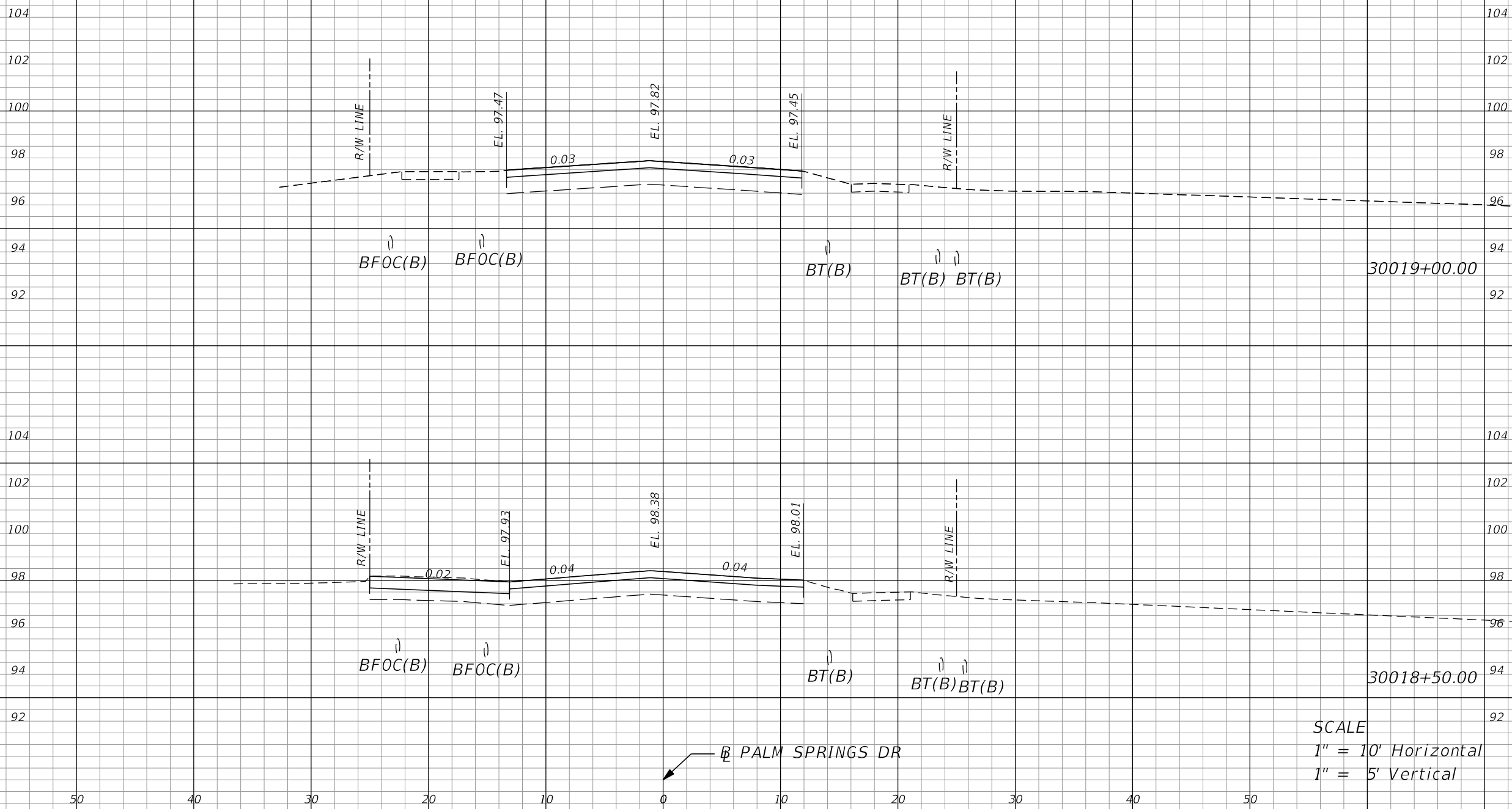
ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
236

← P₂ PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.21		0.00
0.00				0.00	
			5.47		0.00
5.91				0.00	



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

← P₂ PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

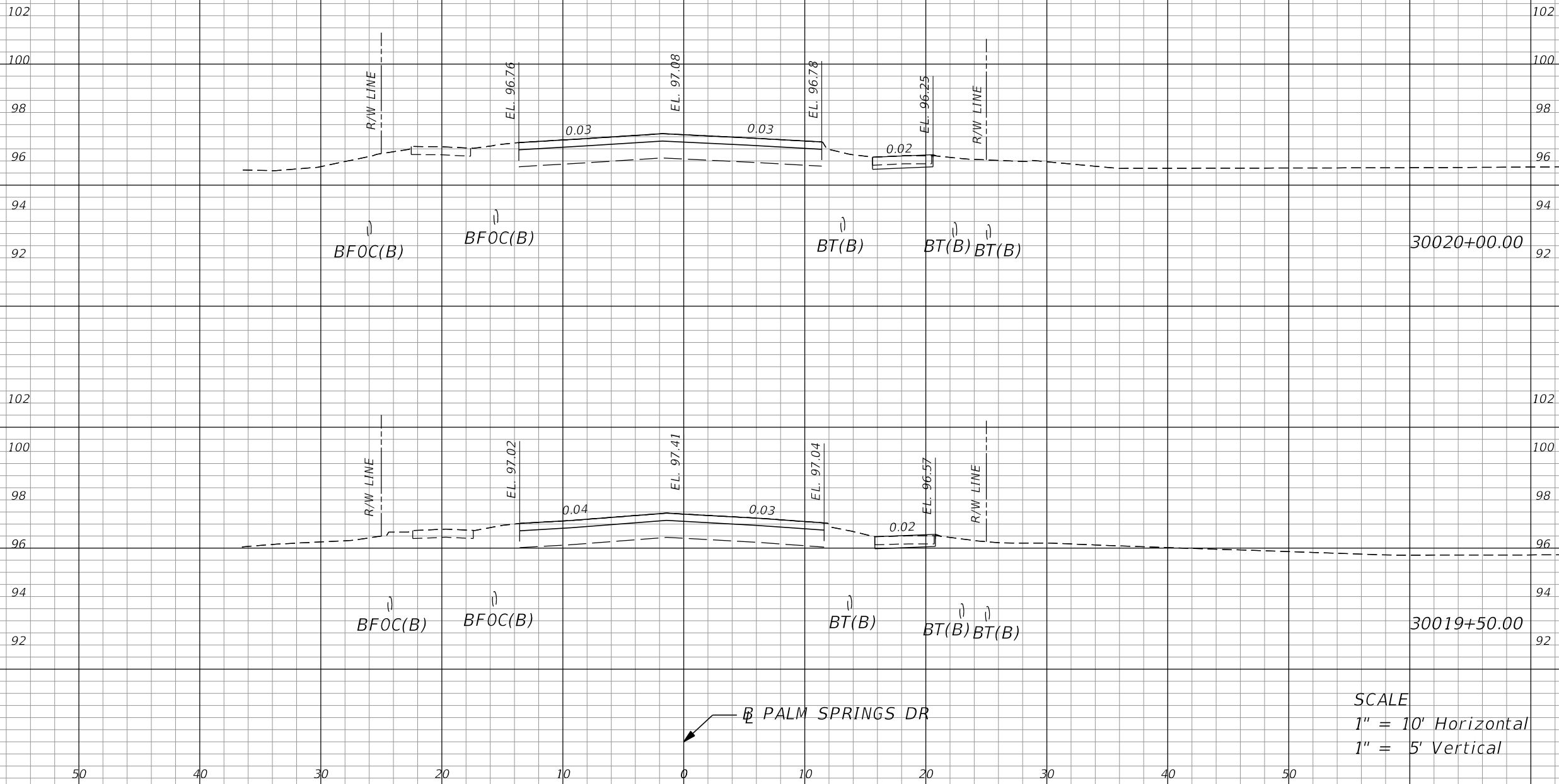
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
 237

← B PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.91		13.16
2.46		0.00			
	4.49				0.00
2.39		0.00			



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

← B PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

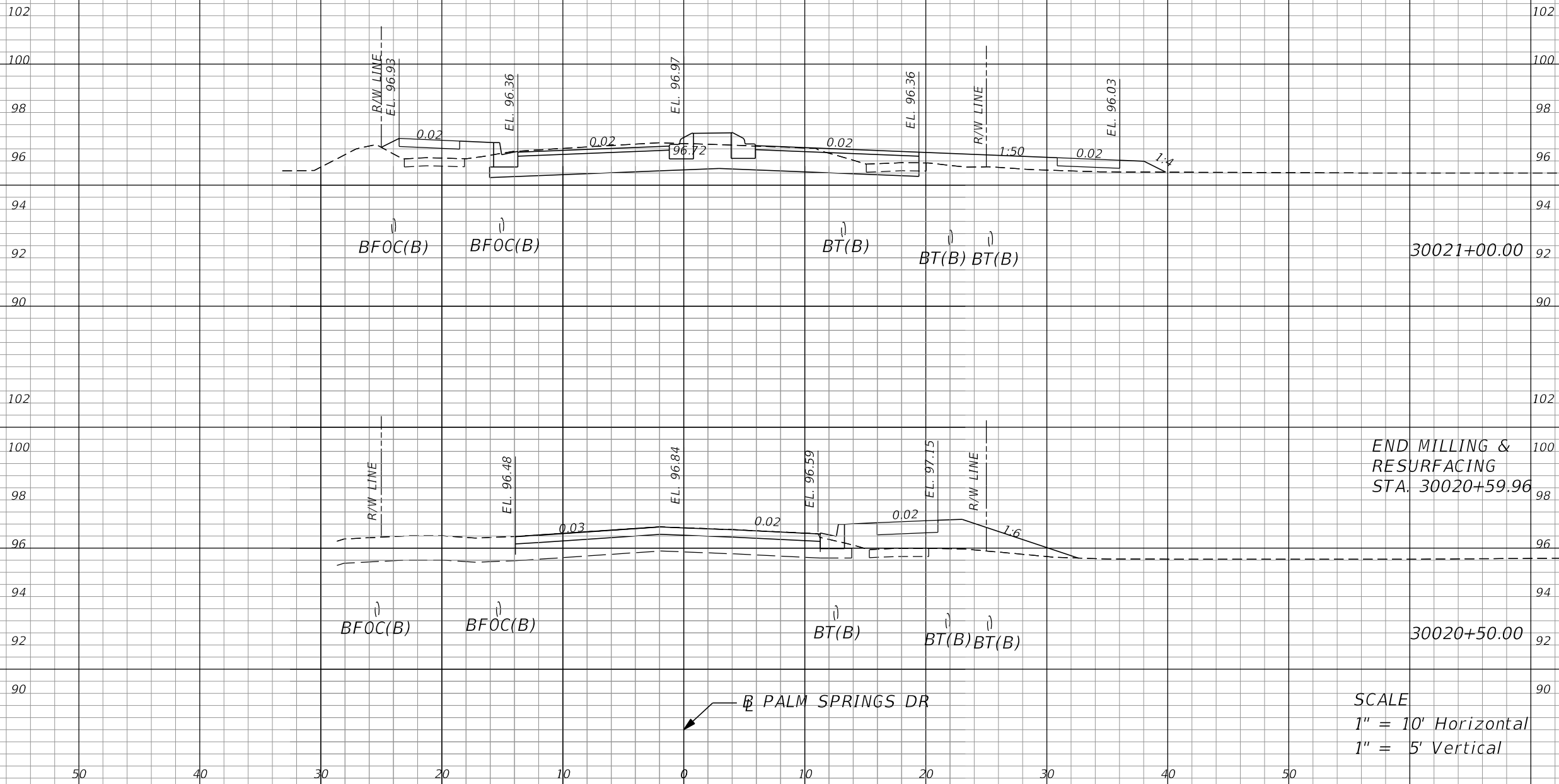
ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
 238

← B PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V
			70.24		23.81
33.29		12.50			
	31.45		24.73		
0.67		14.21			



END MILLING &
RESURFACING
STA. 30020+59.96

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

← B PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

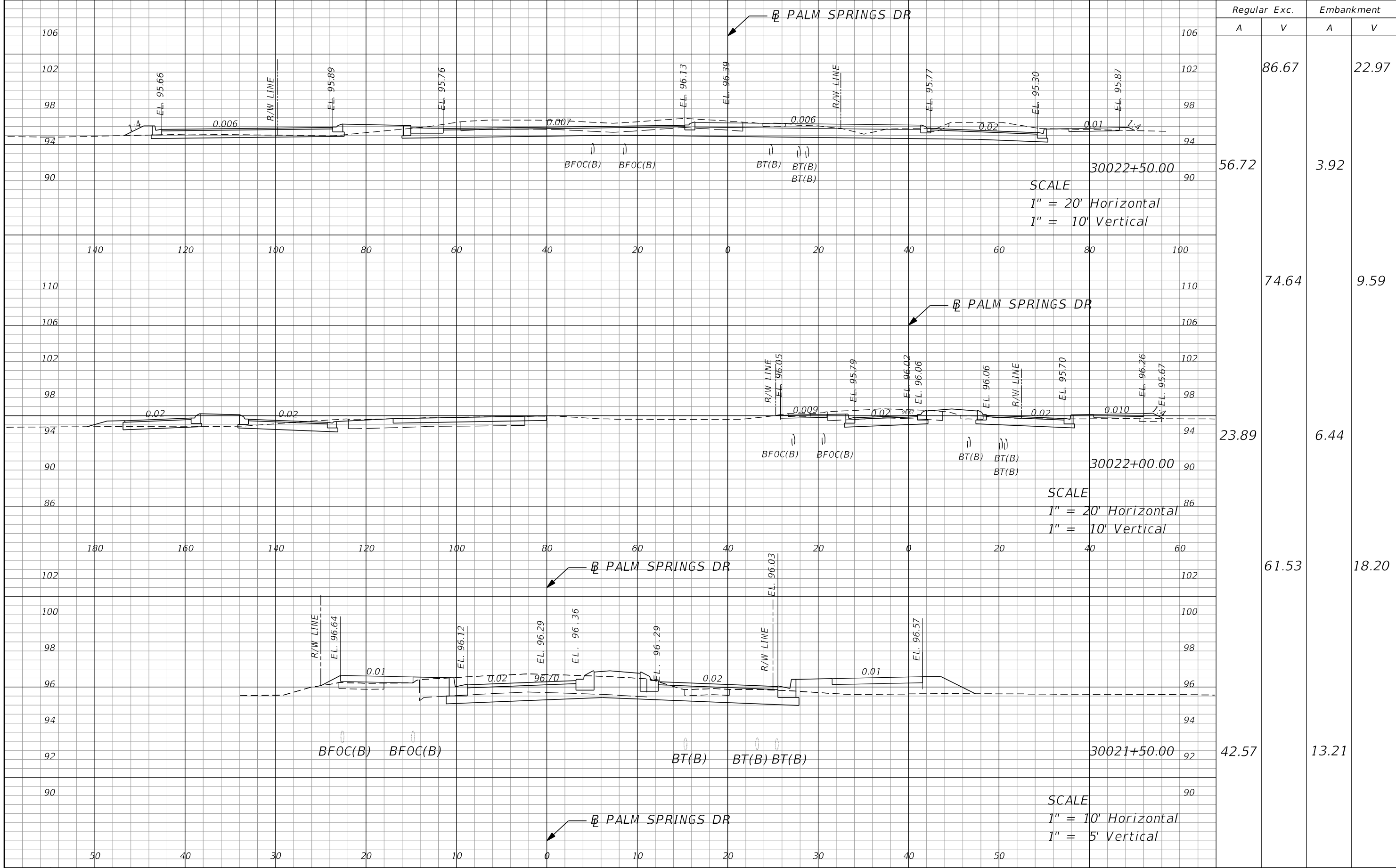


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE I

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

CROSS SECTIONS

SHEET NO.
239



Regular Exc.		Embankment	
A	V	A	V
	86.67		22.97
56.72		3.92	
	74.64		9.59
23.89		6.44	
	61.53		18.20
42.57		13.21	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

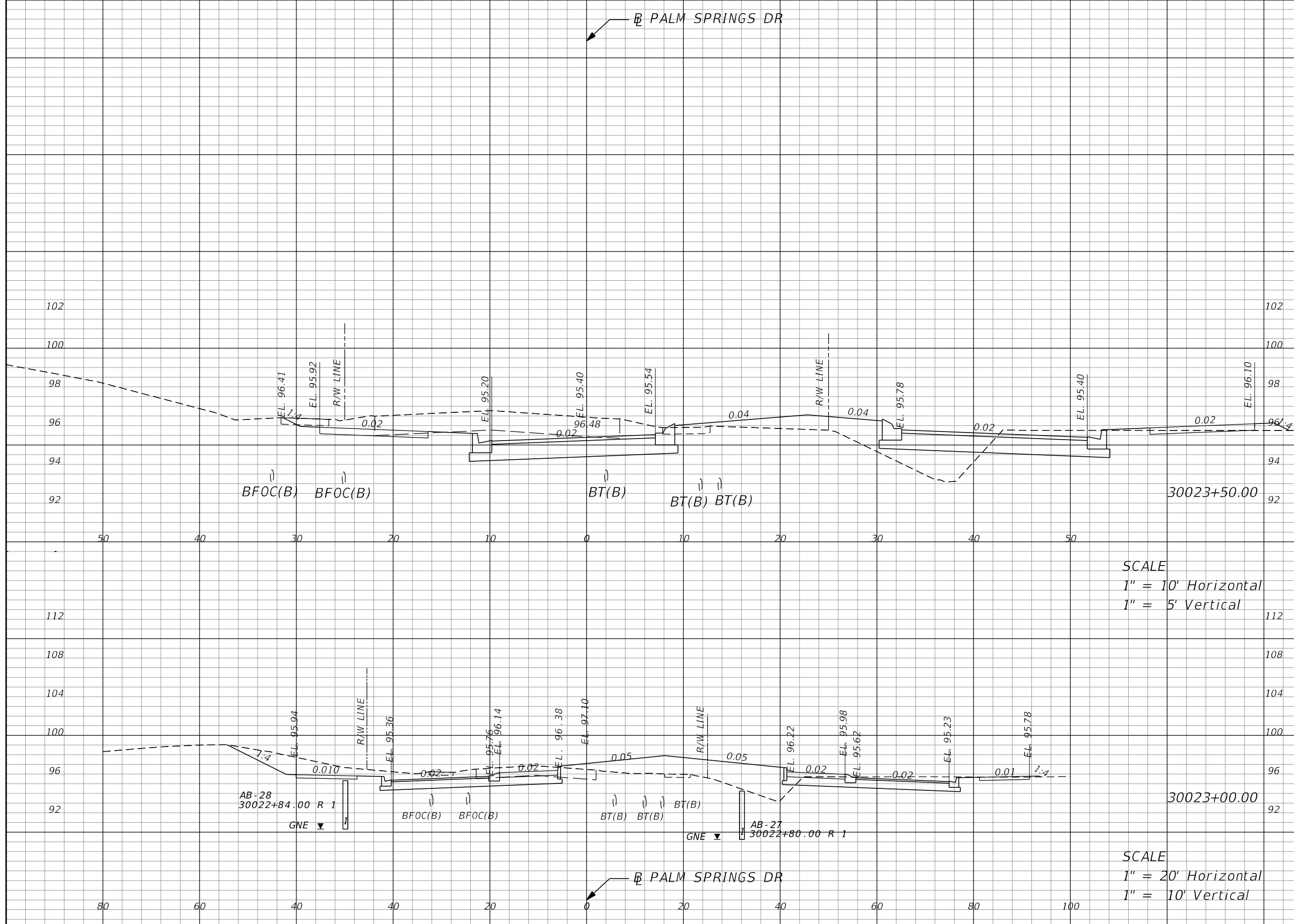


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
240



Regular		Exc.		Embankment	
A	V	A	V	A	V
	127.52		29.77		
76.88		24.94			
	105.33		42.43		
36.88		20.88			

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

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

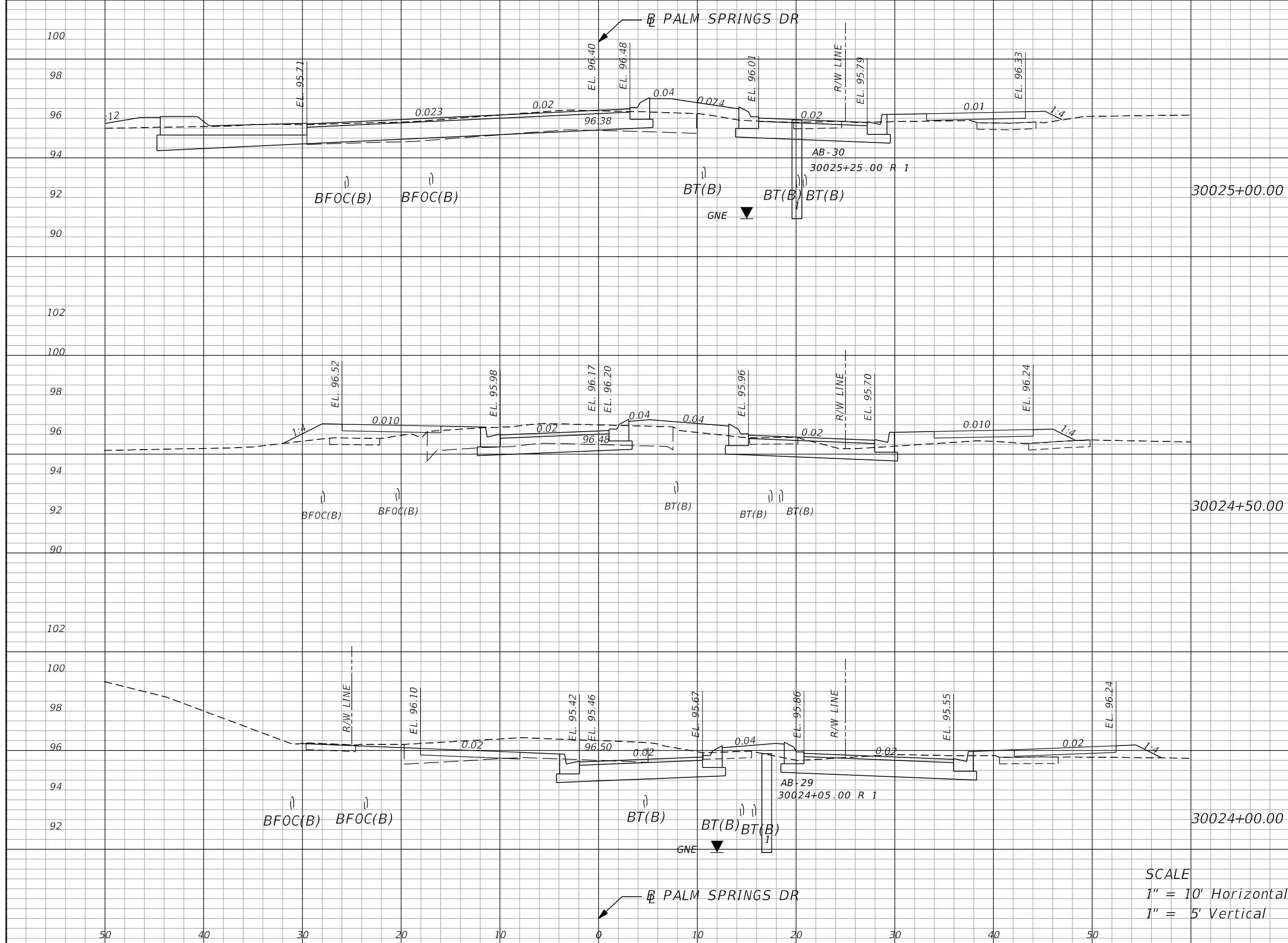
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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 COUNTY CIP No.
 ST., PALM SPRINGS DR. 01907084

CROSS SECTIONS
 SHEET NO. 241



Regular		Exc.		Embankment	
A	V	A	V	A	V
			90.88		22.04
65.57				12.55	
	92.42				27.27
34.23				16.91	
	88.04				22.33
60.85				7.21	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

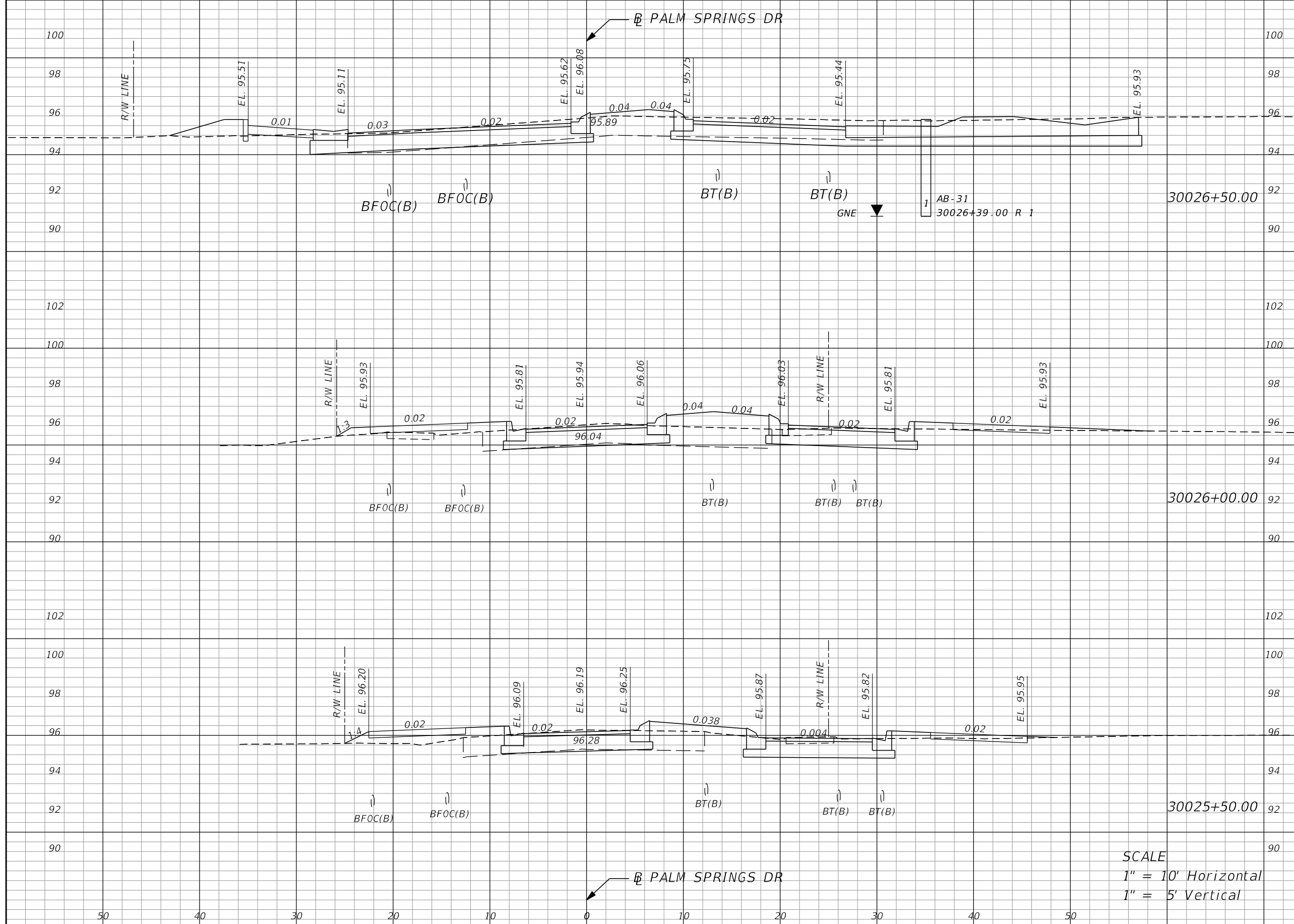


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
242



Regular		Exc.		Embankment	
A	V	A	V	A	V
	120.77			87.65	
6.51			94.14		
	35.32			99.93	
31.63			13.78		
	59.45			23.18	
32.57			11.26		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

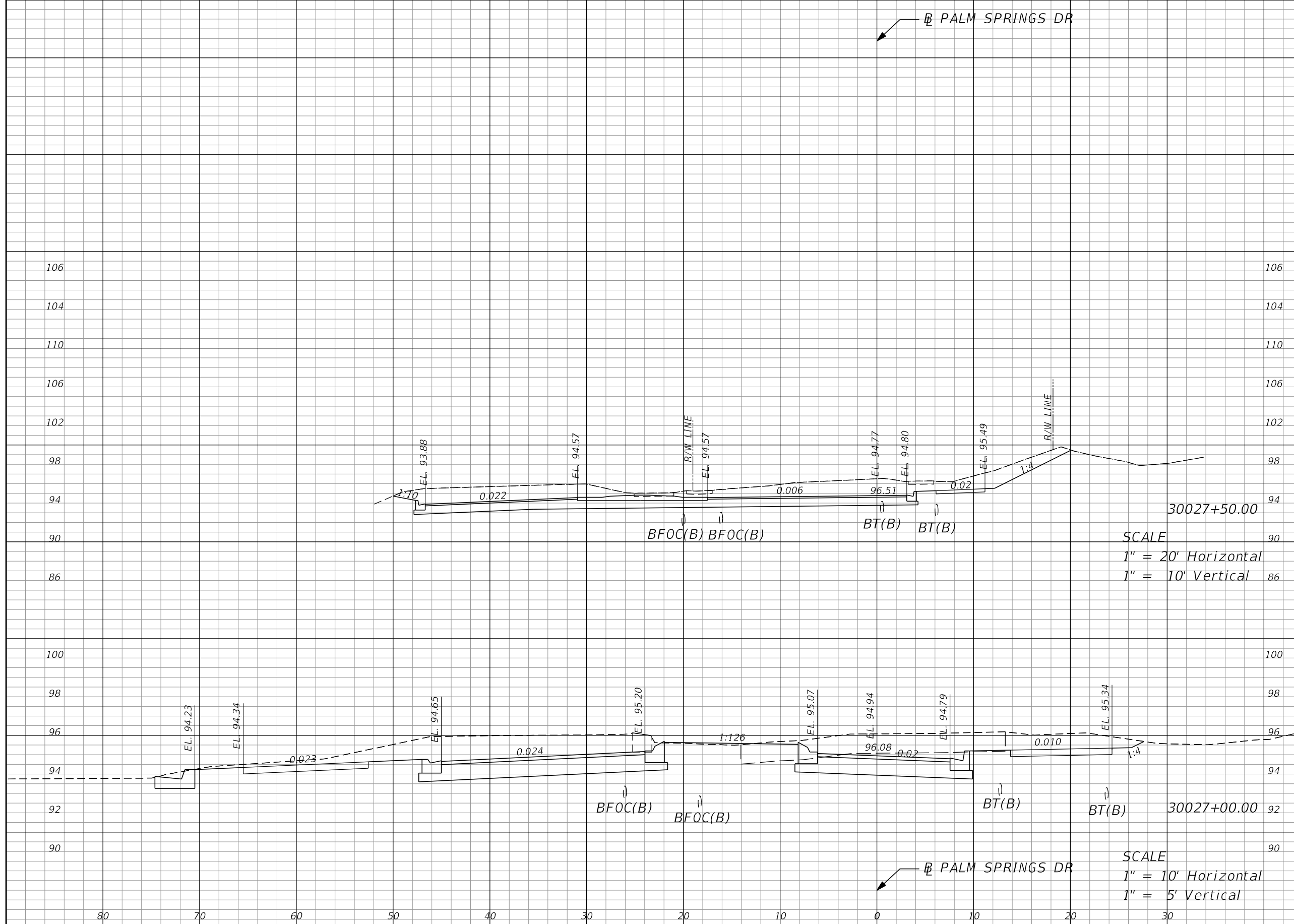


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
243



Regular		Exc.		Embankment	
A	V	A	V	A	V
			83.63		26.21
70.16		0.00			
		179.71			0.48
123.93		0.52			

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

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

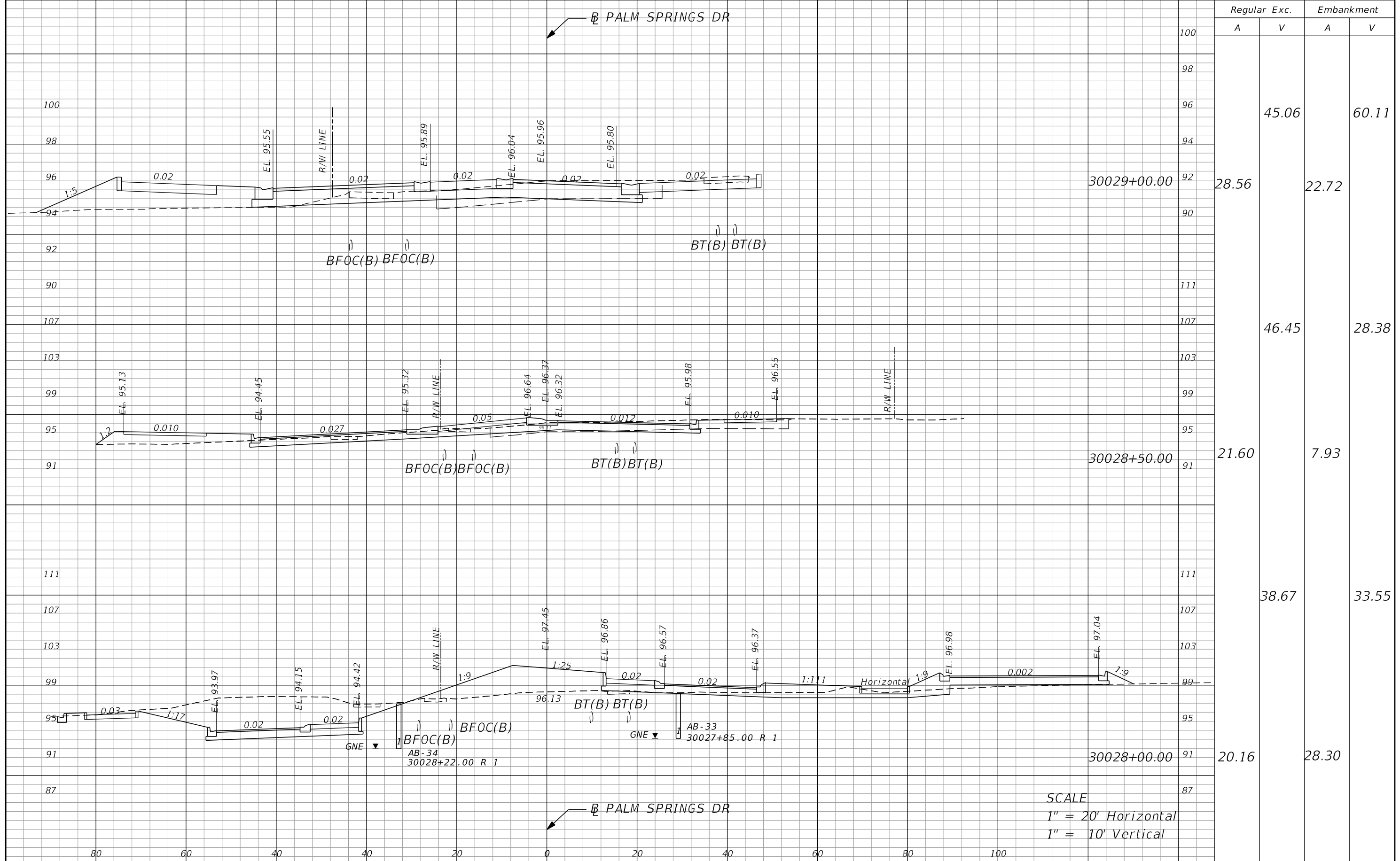


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
244



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
30029+00.00	28.56	45.06	22.72	60.11		
30028+50.00	21.60	46.45	7.93	28.38		
30028+00.00	20.16	38.67	28.30	33.55		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

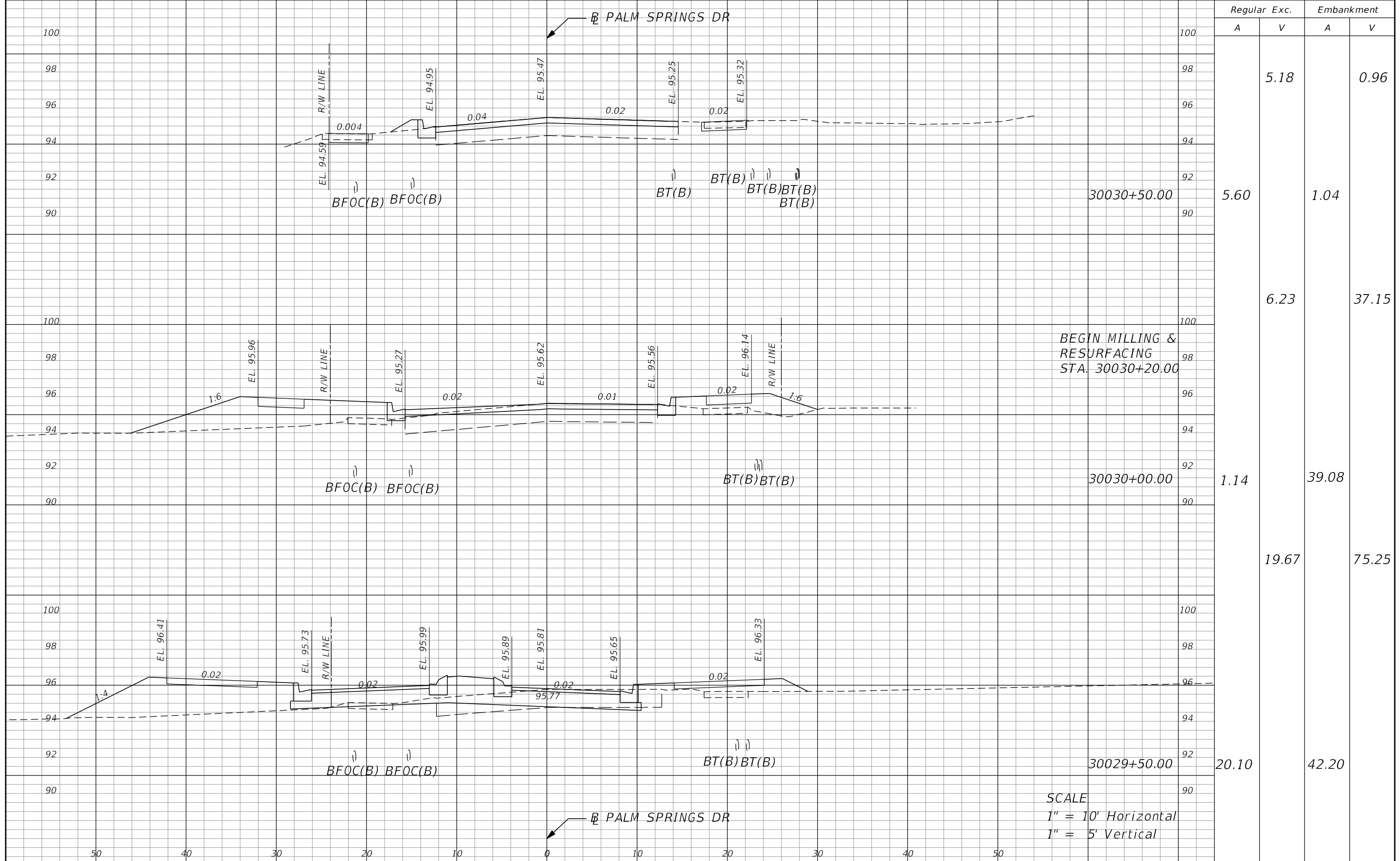
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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.
 245



Regular		Exc.		Embankment	
A	V	A	V	A	V
			5.18		0.96
5.60				1.04	
	6.23				37.15
1.14				39.08	
	19.67				75.25
20.10				42.20	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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 I

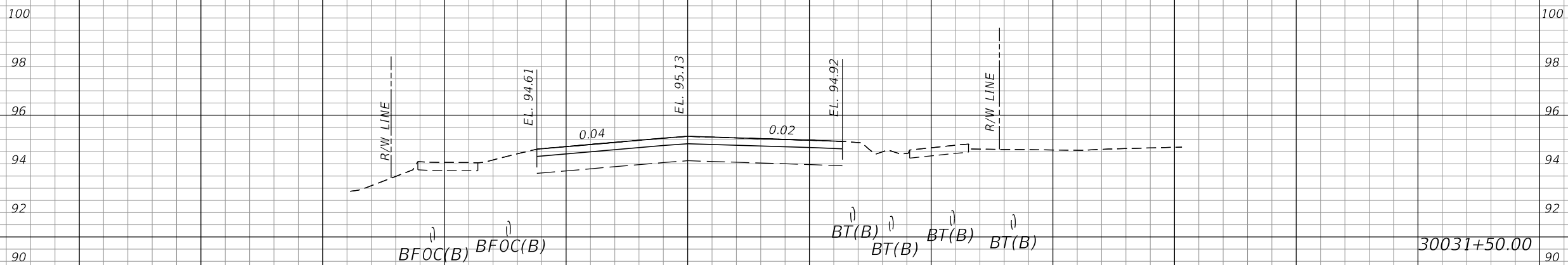
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

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

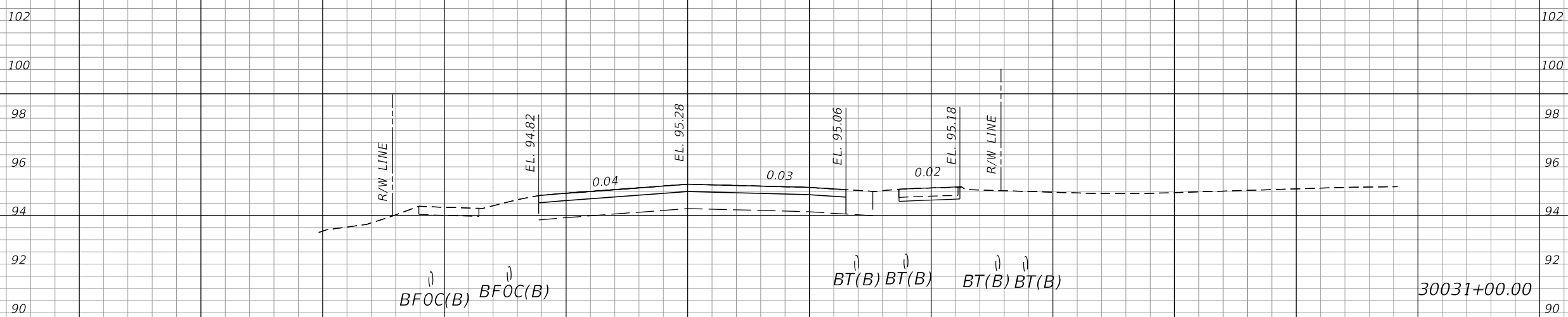
CROSS SECTIONS

SHEET NO.
246

← P₂ PALM SPRINGS DR



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	



← P₂ PALM SPRINGS DR

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



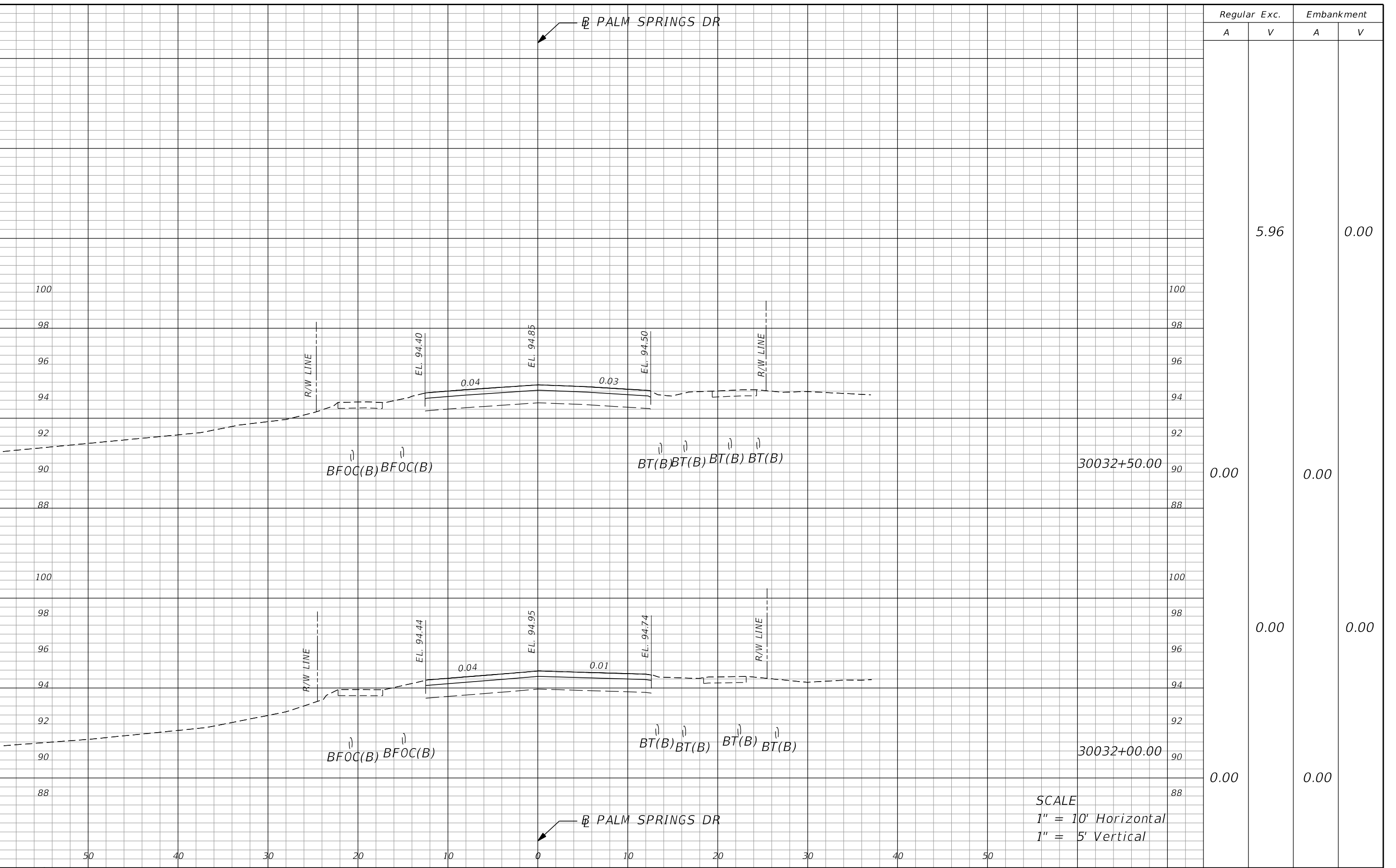
SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
247

↖ PALM SPRINGS DR



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

↖ PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

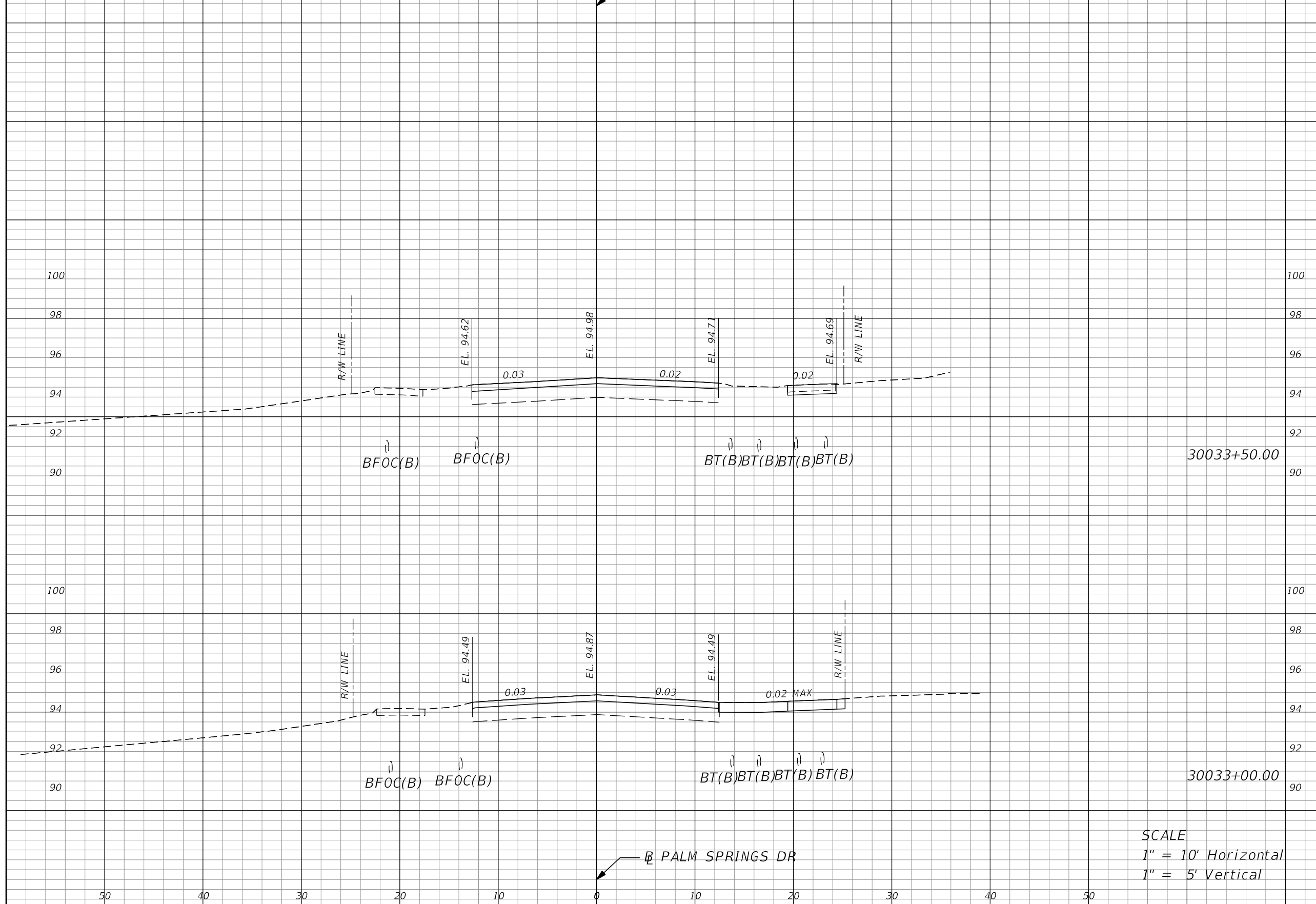
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
 248

↖ PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V




			2.29		0.00
		30033+50.00	2.47	0.00	
			8.25		0.00
		30033+00.00	6.43	0.00	

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

↖ PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

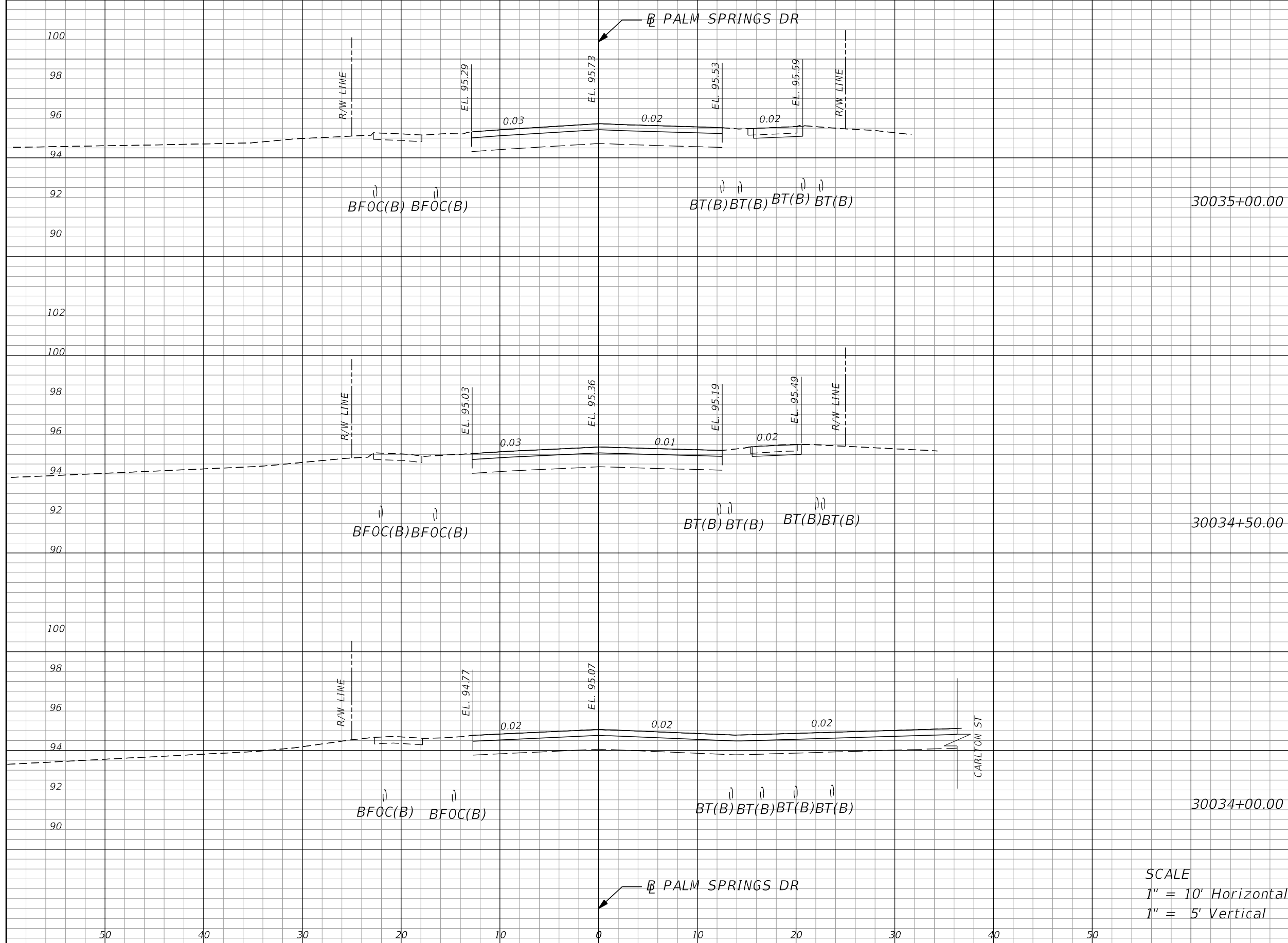


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE I

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

CROSS SECTIONS

SHEET NO.
 249



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.31		0.00
2.50				0.00	
	4.63				0.00
2.50				0.00	
	2.31				0.00
0.00				0.00	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

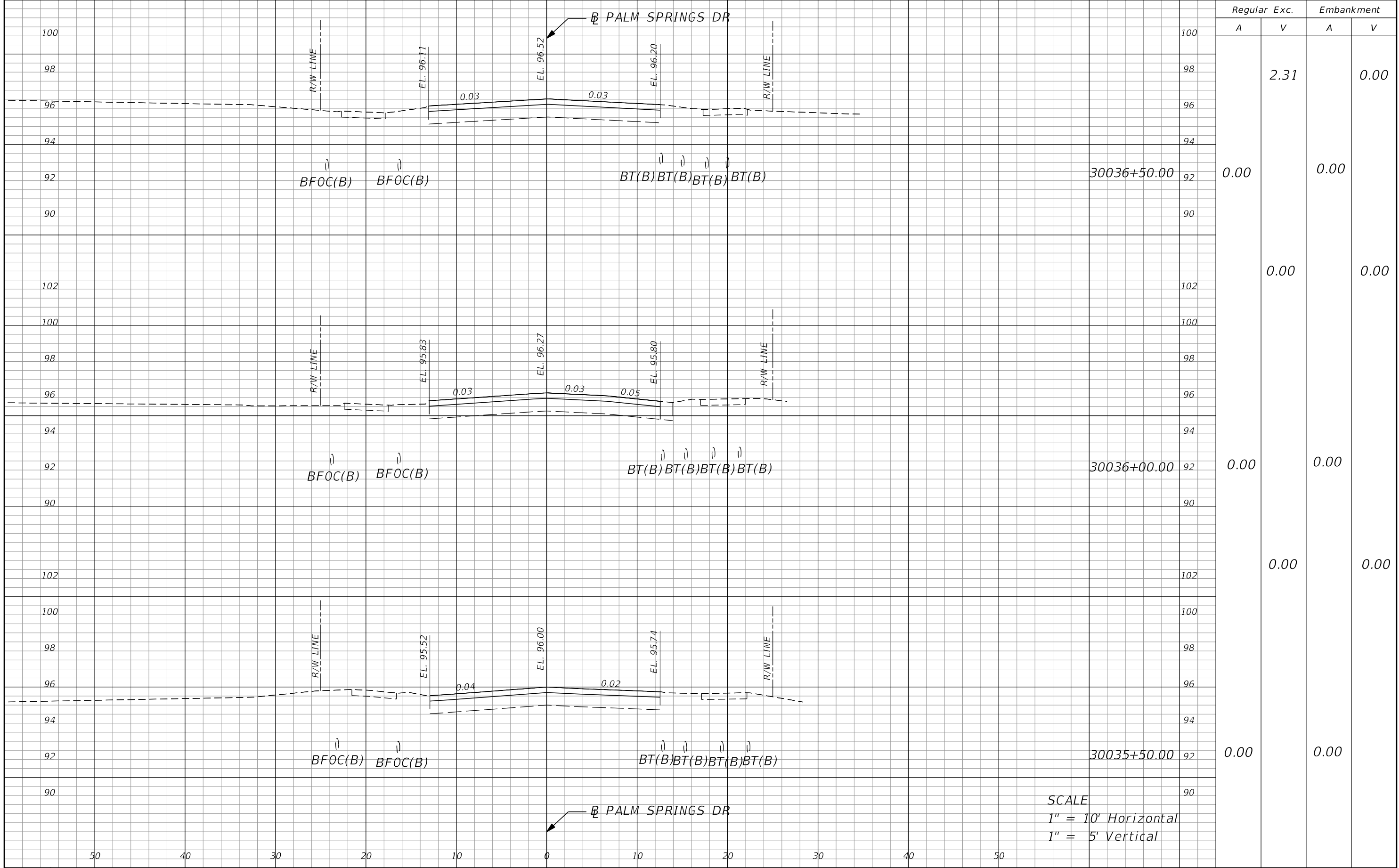


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
250



Regular Exc.		Embankment	
A	V	A	V
	2.31	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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

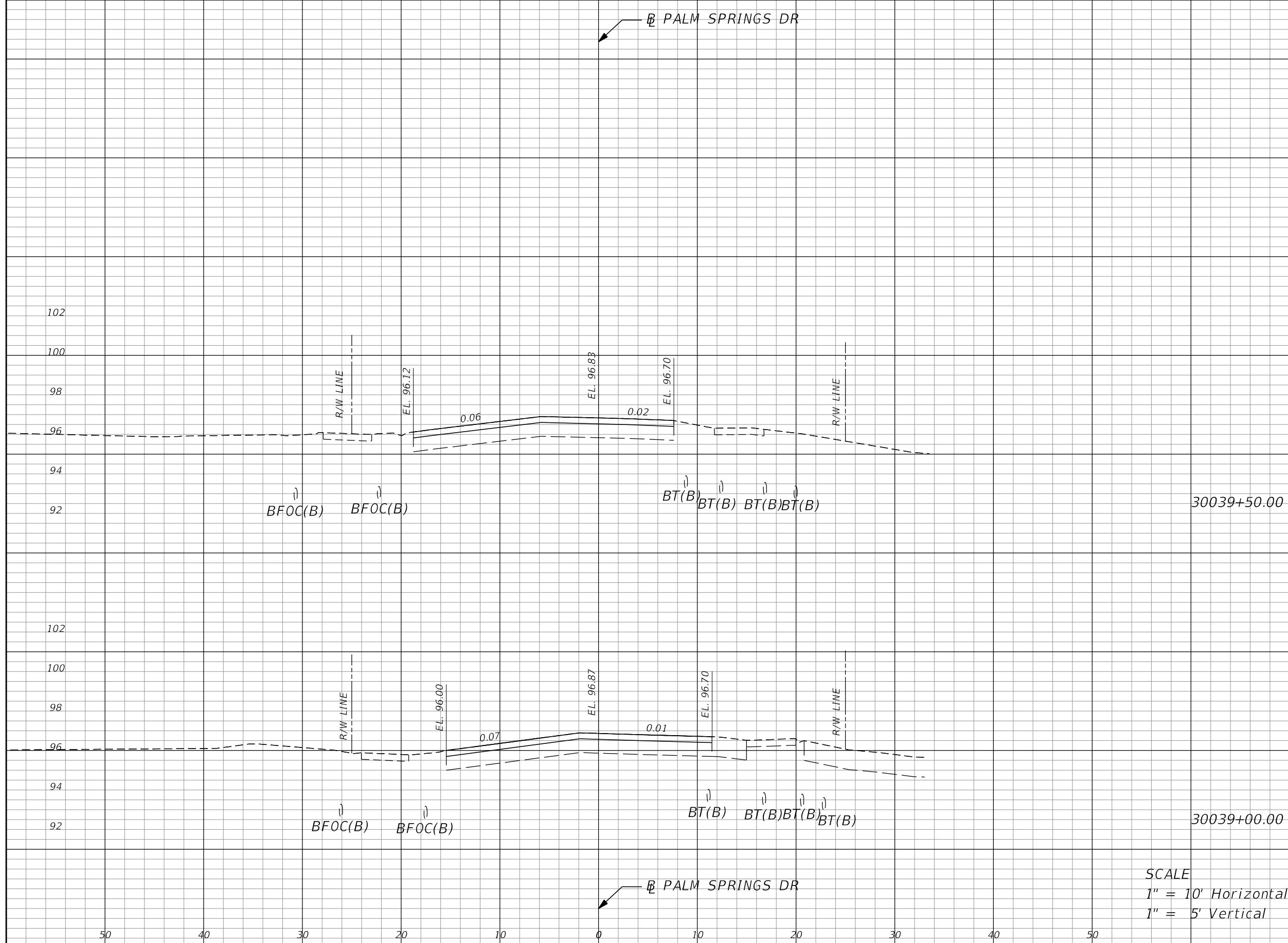


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
251



Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.45		2.37
0.00		0.00		0.00	
	0.00				0.00
0.00		0.00		0.00	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

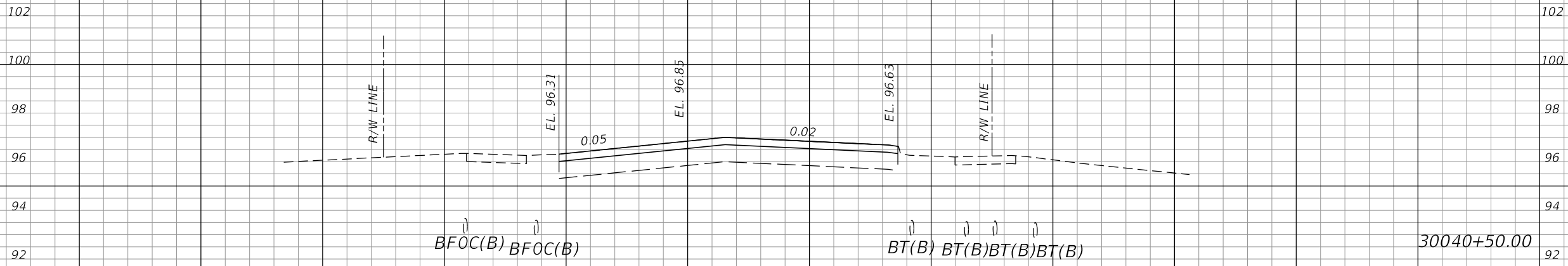
SCALE
 1" = 10' Horizontal
 1" = 5' Vertical

CROSS SECTIONS

SHEET NO.
254

↙ B PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.00		0.00
0.00		0.00			
	1.45				2.37
1.56		2.56			



30040+50.00



30040+00.00

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

↙ B PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
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

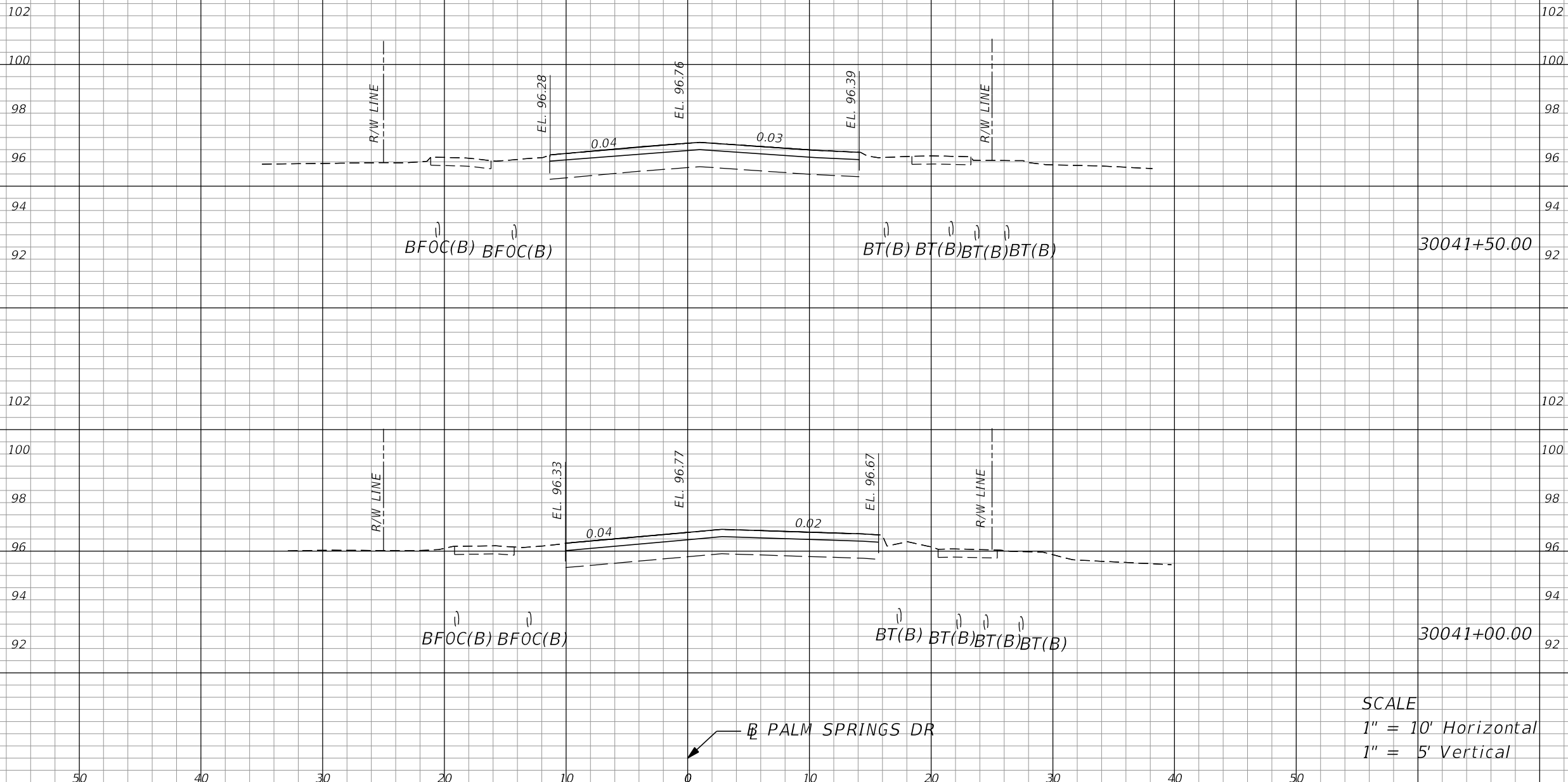
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
255

↖ PALM SPRINGS DR

Regular		Exc.		Embankment	
A	V	A	V	A	V



1.81 0.92

0.00 0.00

0.00 0.00

0.00 0.00

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

↖ PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

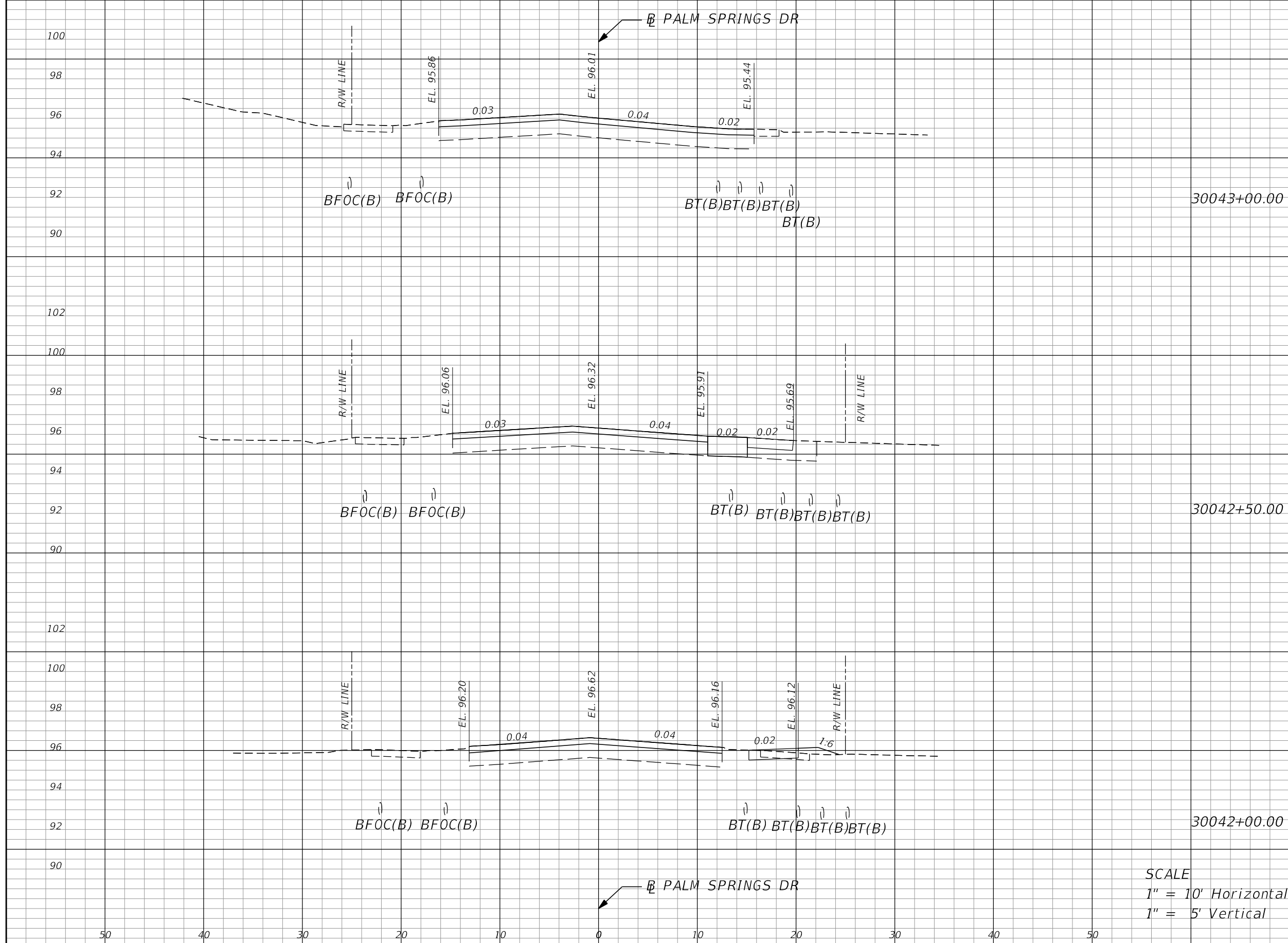


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
256



Regular Exc.		Embankment	
A	V	A	V
0.00	0.00	0.00	0.00
5.77	5.34	0.92	0.85
1.95	7.15	1.00	1.77

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

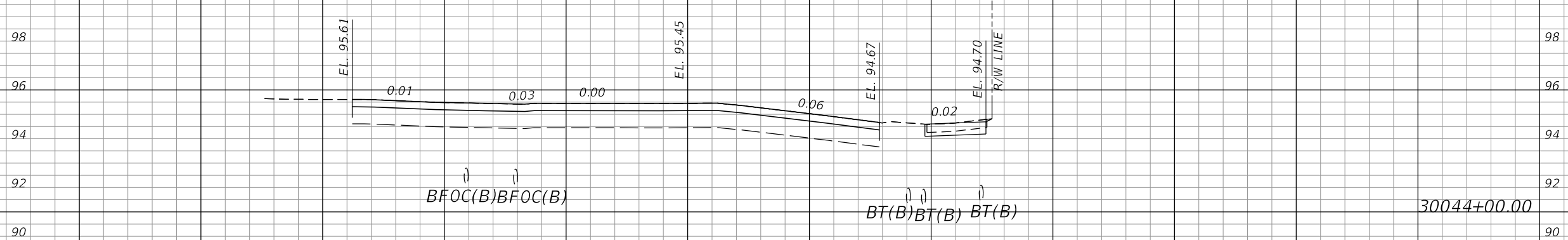
ROAD	COUNTY CIP No.
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084

CROSS SECTIONS

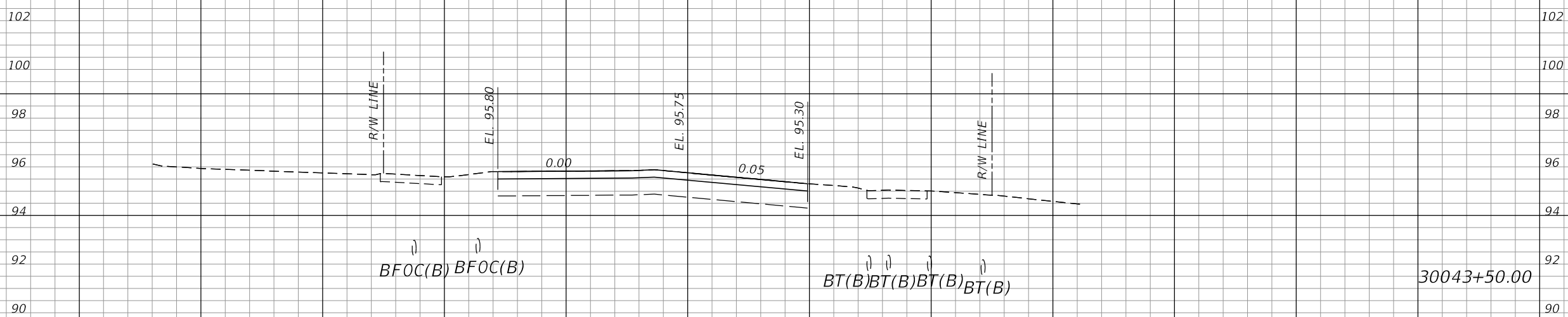
SHEET NO.
257

← B PALM SPRINGS DR

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	



30044+00.00




30043+50.00

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

← B PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

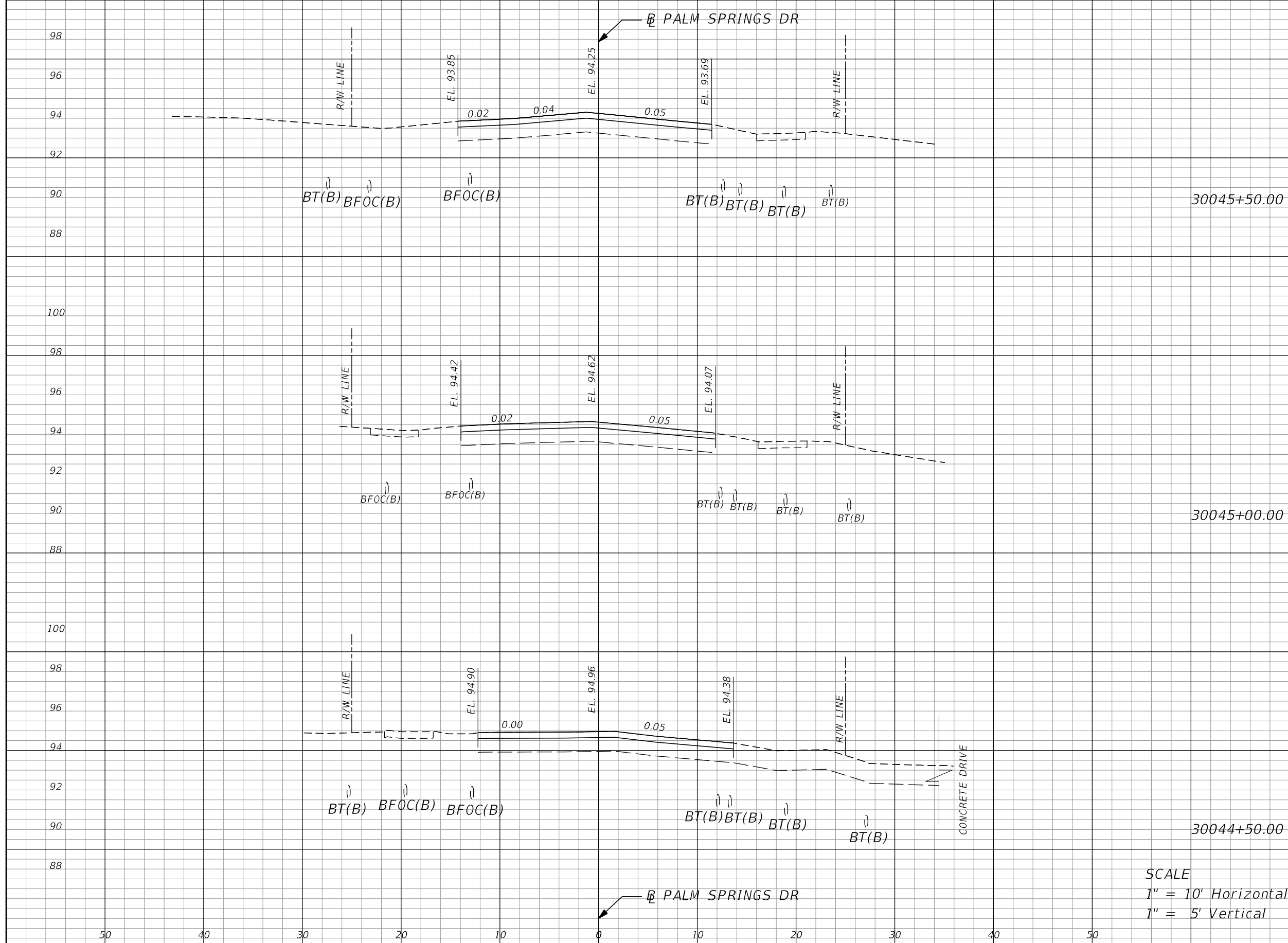


SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
258



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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

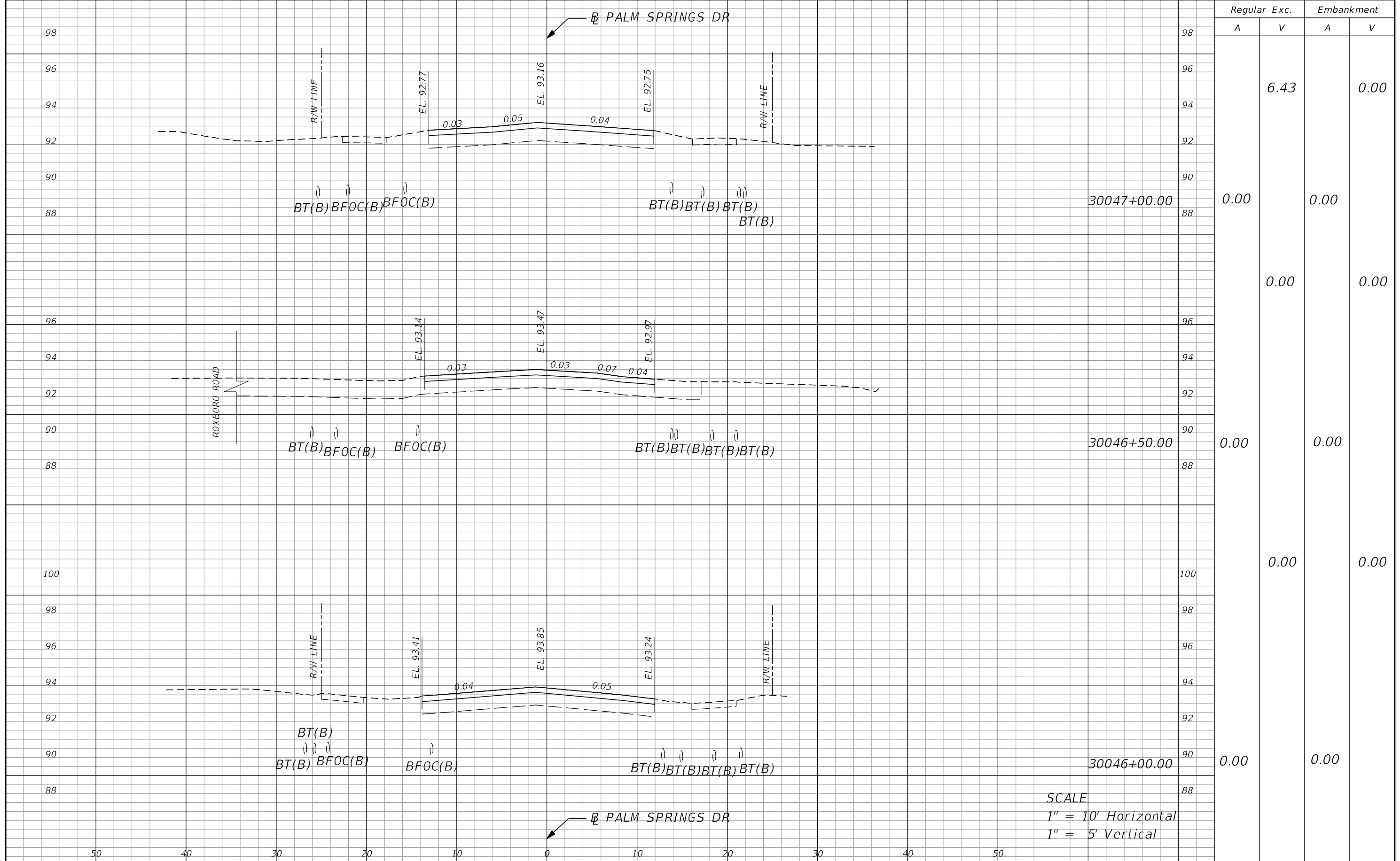


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
259



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

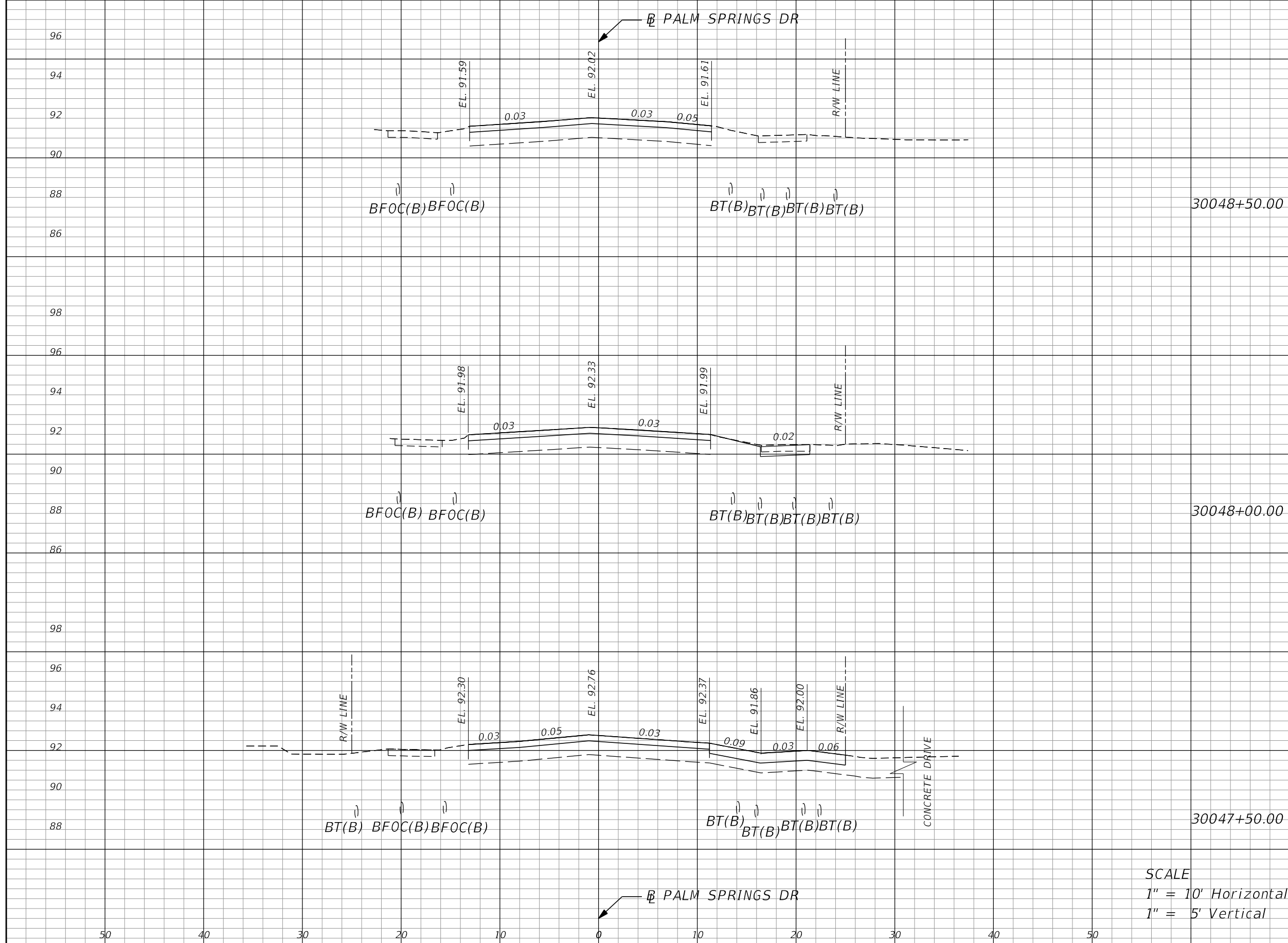


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 260



Station	Regular Exc.		Embankment	
	A	V	A	V
30048+50.00	0.00	0.00	0.00	0.00
30048+00.00	2.84	0.00	0.00	0.00
30047+50.00	6.95	0.00	0.00	0.00
Total	9.06	0.00	0.00	0.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

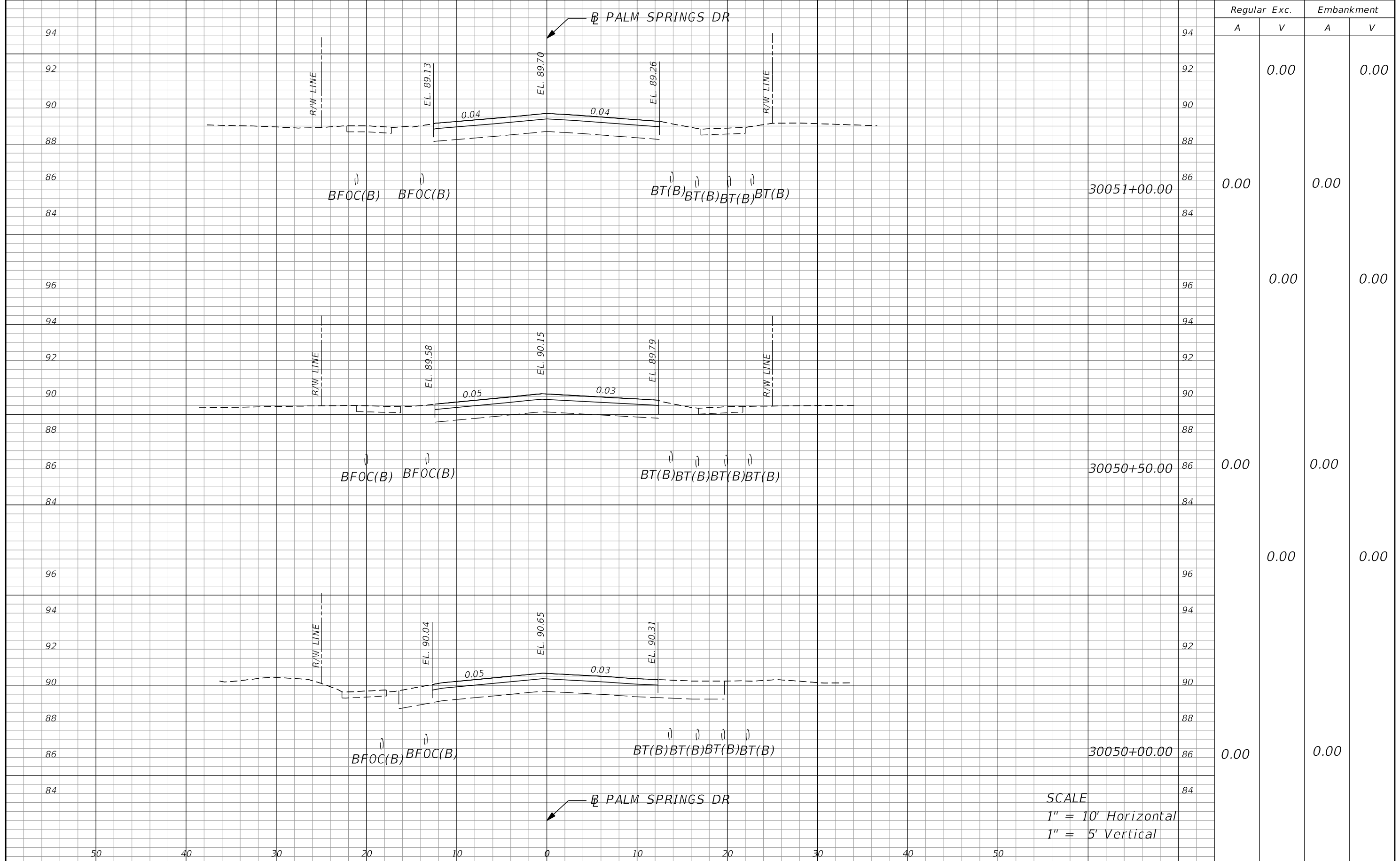


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
261



Regular Exc.		Embankment	
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	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



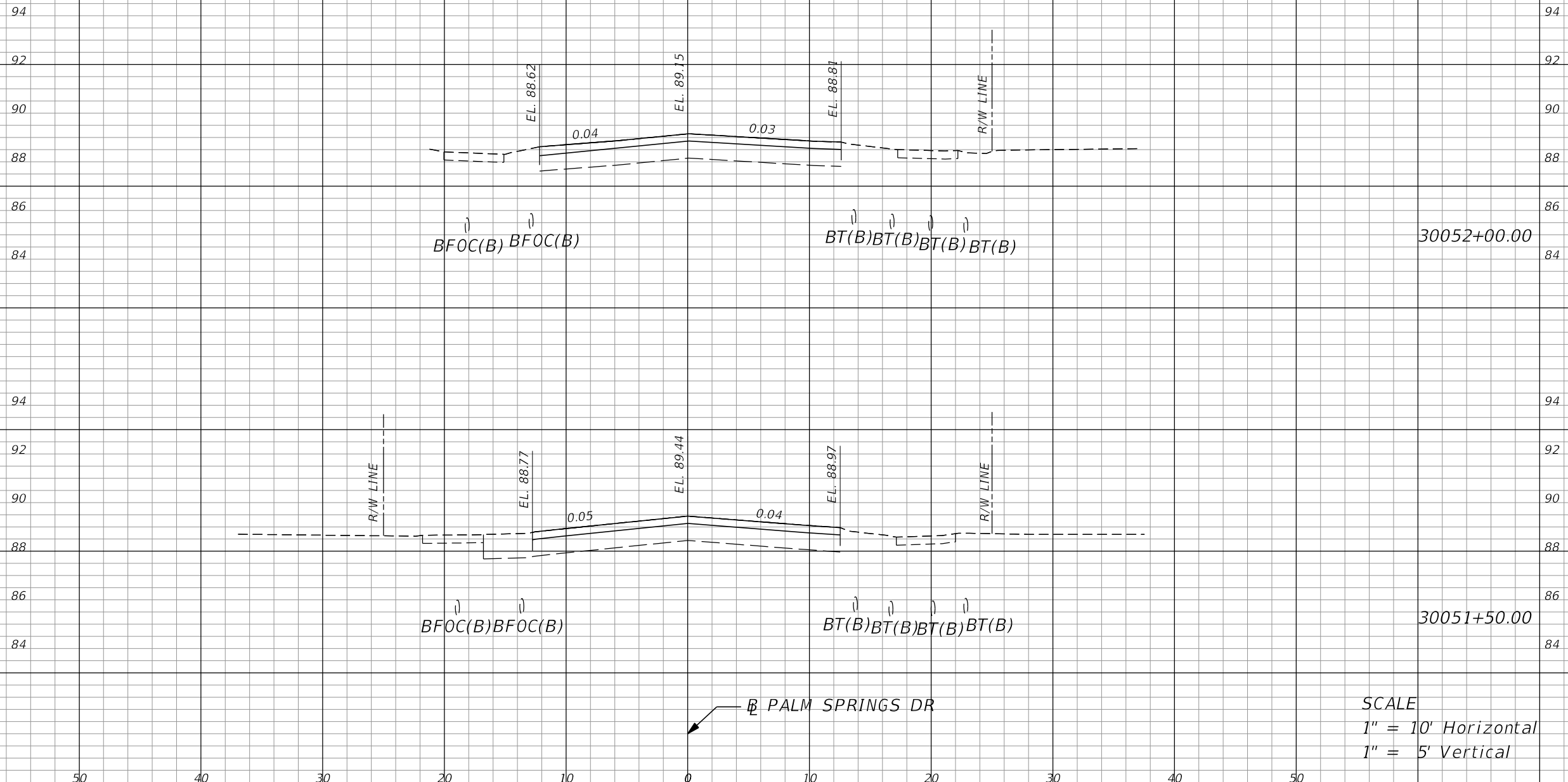
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
 263

↖ PALM SPRINGS DR



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

↖ PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



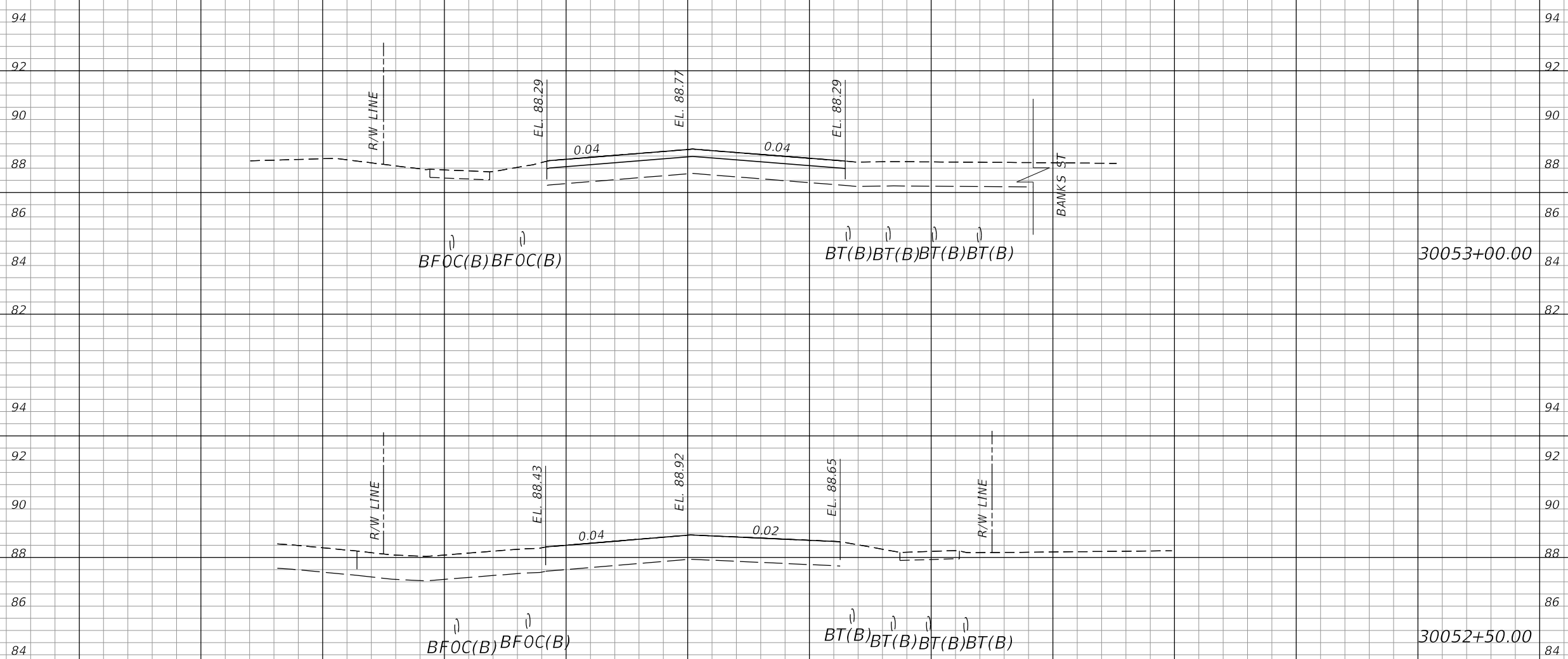
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
264

↙ PALM SPRINGS DR



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

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

↙ PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

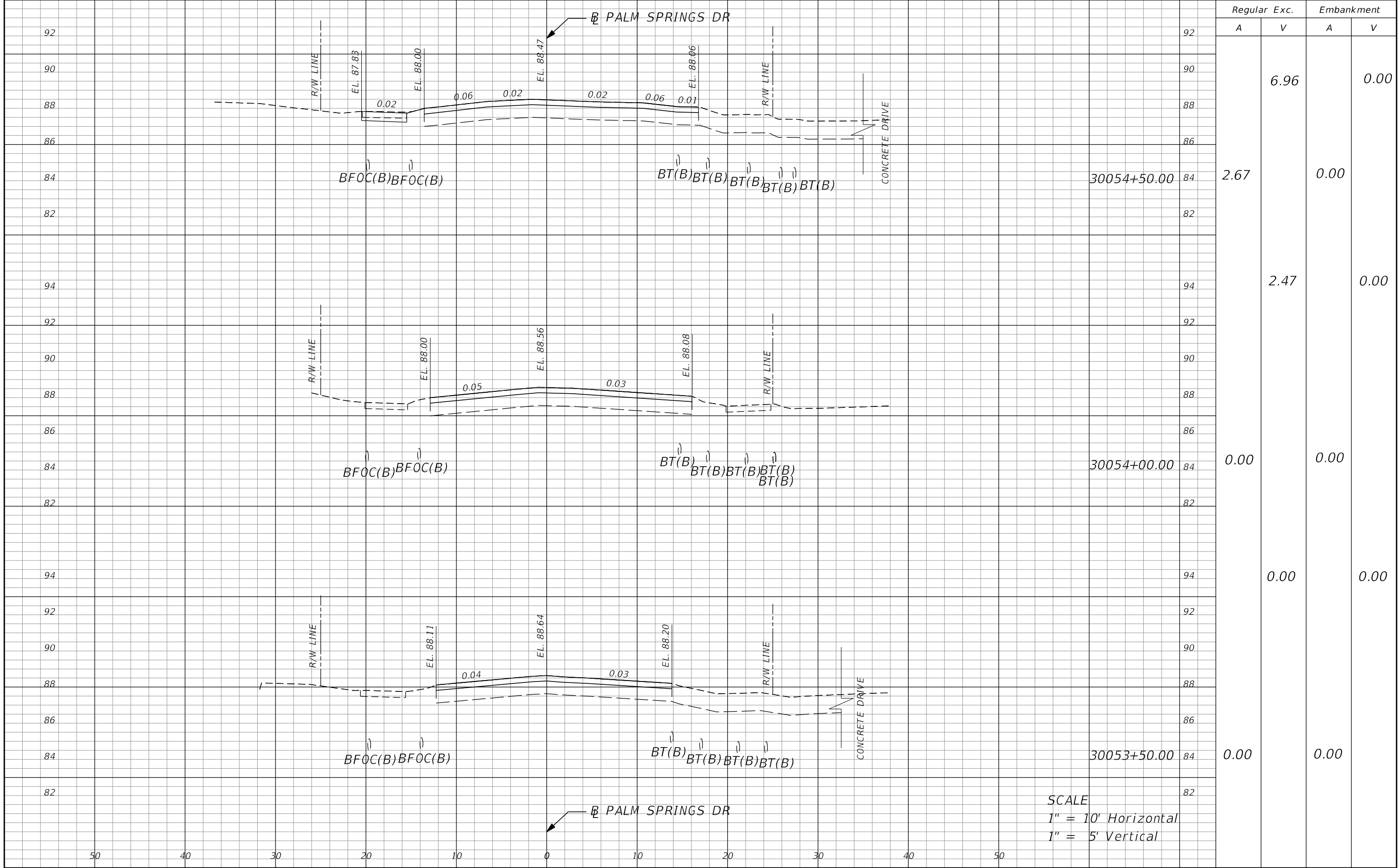


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

CROSS SECTIONS

SHEET NO.
265



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

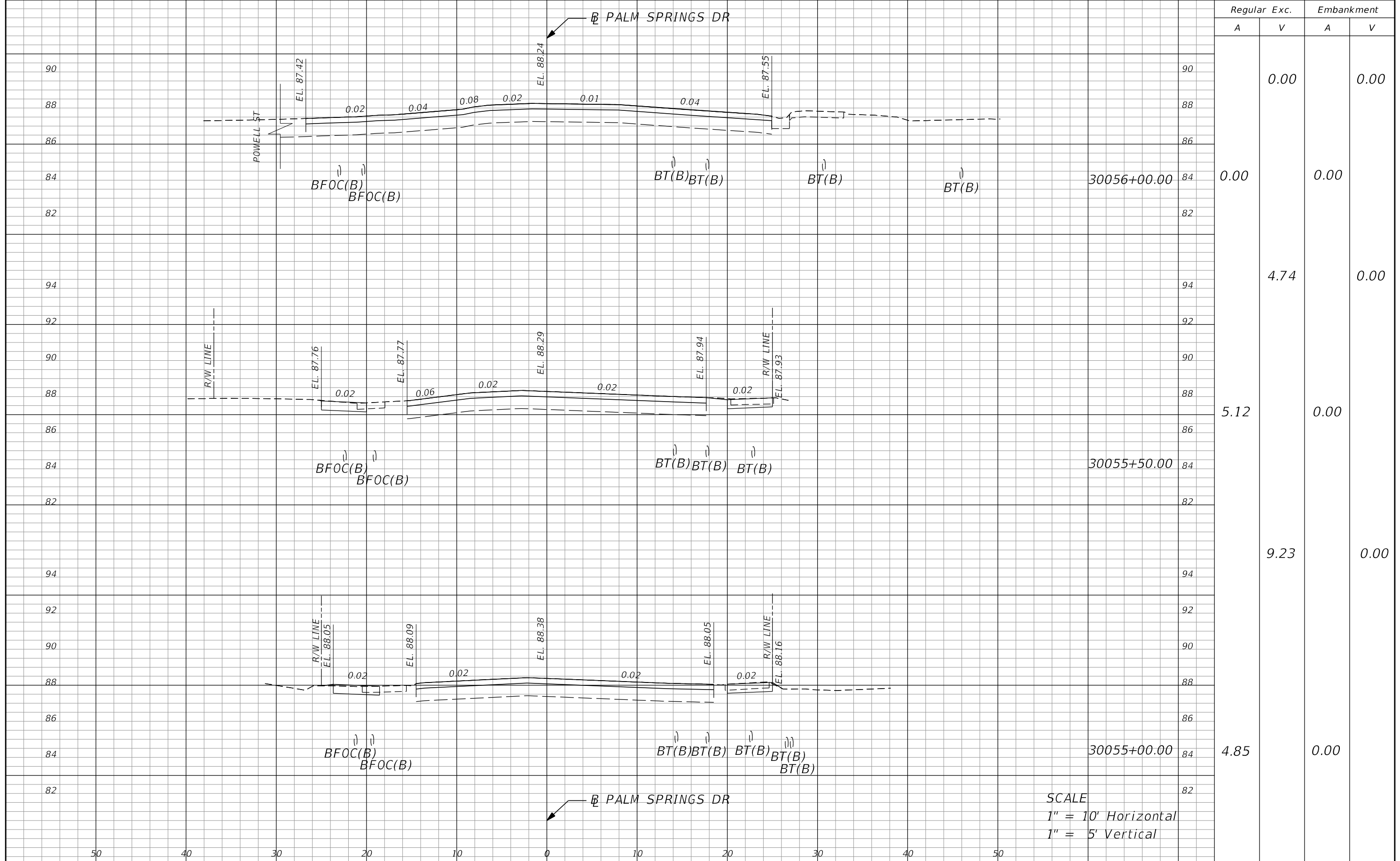
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

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



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			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

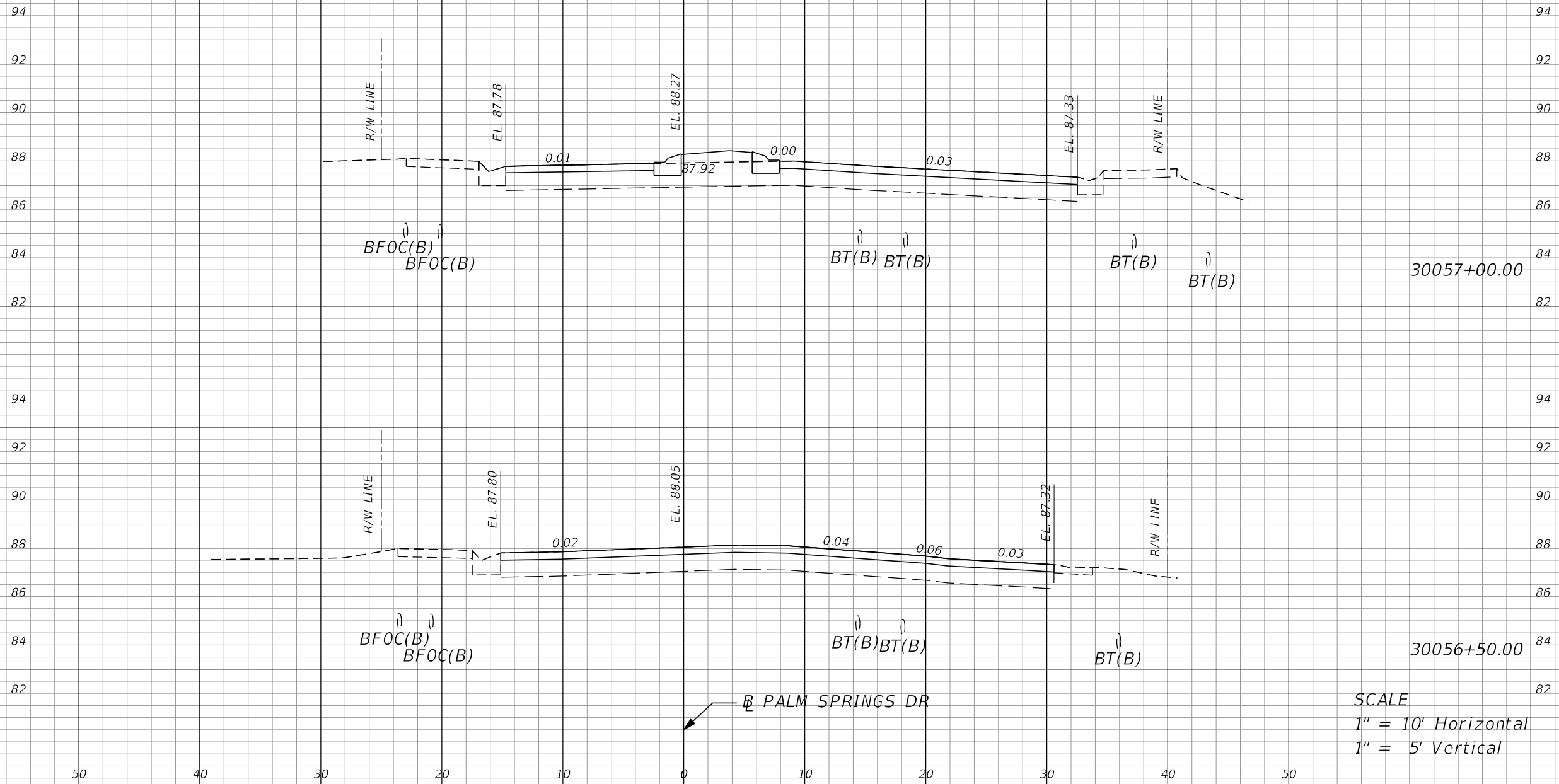
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
267

↙ PALM SPRINGS DR

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	



↙ PALM SPRINGS DR

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
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

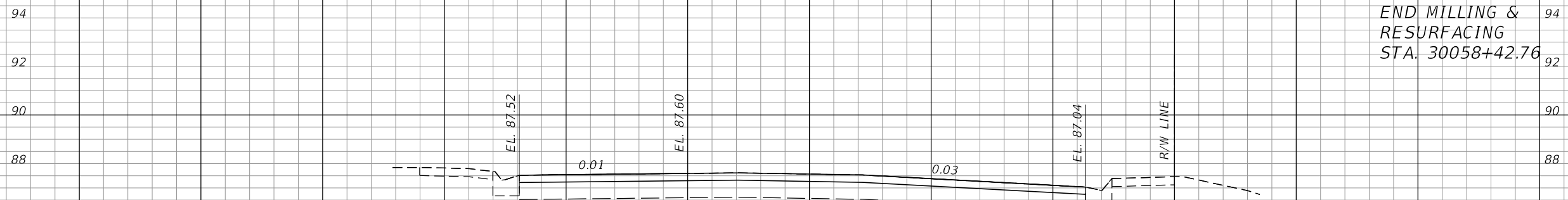
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

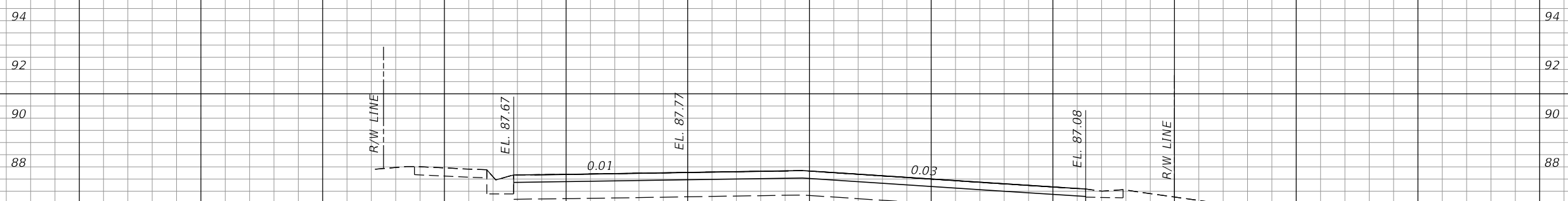
SHEET NO.
268

↙ PALM SPRINGS DR

END PROJECT
END CONSTRUCTION
PALM SPRINGS DR
STA. 30059+36.80



END MILLING &
RESURFACING
STA. 30058+42.76



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

↙ PALM SPRINGS DR

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	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
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

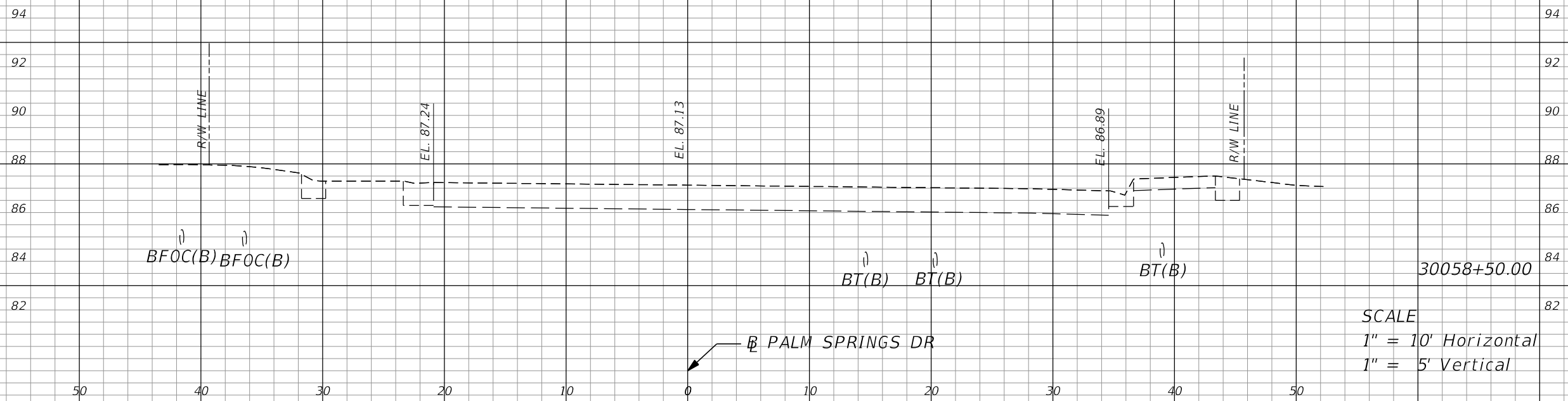
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

CROSS SECTIONS

SHEET NO.
269

↙ P. PALM SPRINGS DR

Regular Exc.		Embankment	
A	V	A	V



0.00		0.00	
------	--	------	--

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

↙ P. PALM SPRINGS DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

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				 MARK W. SUAREZ, P.E. LICENSE NO. 76977 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. 271
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

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				MARK W. SUAREZ, P.E. LICENSE NO. 76977  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. 272
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		


- (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				 MARK W. SUAREZ, P.E. LICENSE NO. 76977 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		<i>STORMWATER POLLUTION PREVENTION PLAN (3)</i>	SHEET NO. 273
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	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			

<i>REVISIONS</i>				MARK W. SUAREZ, P.E. LICENSE NO. 76977 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.
<i>DATE</i>	<i>DESCRIPTION</i>	<i>DATE</i>	<i>DESCRIPTION</i>		<i>ROAD</i>	<i>COUNTY CIP No.</i>		274
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 18			
			LF		EA			
P	F	P	F					
12+52.46 to 18+29.71	RT		682.8					
18+78.82 to 19+63.51	RT		188.6					
10000+25.13 to 10006+51.31	LT		626.2					
10005+69.50 to 10014+73.91	RT		904.4					
10006+76.95 to 10013+01.60	LT		624.7					
10013+28.54 to 10019+48.88	LT		620.3					
10014+73.91 to 10015+39.12	RT		65.8					
10015+39.12 to 10017+91.52	RT		327.2					
10017+90.99 to 10018+15.57	RT		87.3					
10018+12.65 to 10018+24.74	RT		25.8					
10018+36.72 to 10018+43.14	RT		23.8					
10018+36.72 to 10018+43.67	RT		24.0					
10018+43.14 to 10019+31.93	RT		108.4					
10018+64.30 to 10019+30.16	RT		81.8					
10018+64.30 to 10019+66.31	RT		216.7					
10019+30.16 to 10019+62.41	RT		34.8					
10019+31.93 to 10019+62.67	RT		43.7					
10019+48.88 to 10019+48.89	LT		31.9					
10019+66.31 to 10019+69.08	RT		45.7					
10019+86.04 to 10023+15.28	LT		329.2					
10019+90.63 to 10019+98.86	RT		68.7					
10019+98.86 to 10020+25.52	RT		28.5					
10020+25.52 to 10026+05.02	RT		579.5					
10023+80.69 to 10024+31.79	LT		51.1					
10024+31.79 to 10024+65.88	LT		34.8					
10024+65.88 to 10026+49.78	LT		183.9					
10026+49.78 to 10026+69.59	LT		21.1					
10026+69.59 to 10028+10.71	LT		141.6					
20002+46.44 to 20003+30.15	RT		87.4					
20003+20.85 to 20003+52.12	LT		36.2					
20003+30.15 to 20007+26.21	RT		396.1					
20008+92.86 to 20013+21.44	LT		428.6					
20010+30.07 to 20014+01.94	RT		371.9					
20013+21.44 to 20014+62.34	LT		342.5					
20014+01.94 to 20015+95.34	RT		242.1					
20014+64.84 to 20018+51.94	LT		503.6					
20016+45.30 to 20016+45.34	RT		54.1					
20016+45.30 to 20018+08.28	RT		163.0					
20018+08.28 to 20029+40.18	RT		1131.9					
20018+51.94 to 20018+70.27	LT		18.4					
20018+70.27 to 20022+13.66	LT		343.4					
20022+13.66 to 20022+64.38	LT		59.1					
20022+92.87 to 20024+47.62	LT		165.7					
20024+86.79 to 20025+10.44	LT		25.3					
20025+10.44 to 20029+26.55	LT		422.1					
20029+40.17 to 20042+17.70	RT		1277.5					
SUB-TOTAL:			12271.2					
TOTAL:			18595		94			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
275

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 18			
			LF		EA			
P	F	P	F					
20029+61.35 to 20031+55.94	LT		197.5					
20031+55.94 to 20032+99.44	LT		143.5					
20032+99.44 to 20033+37.56	LT		39.1					
20033+75.01 to 20034+21.69	LT		47.7					
20036+94.85 to 20042+19.47	LT		524.6					
20042+19.47 to 20042+27.86	LT		23.0					
20042+84.68 to 20043+24.18	LT		44.7					
20042+96.69 to 20043+27.61	RT		44.3					
30005+44.09 to 30008+04.63	RT		260.5					
30007+79.32 to 30010+78.64	LT		299.3					
30008+54.63 to 30011+34.63	RT		280.0					
30011+76.59 to 30012+89.67	RT		106.9					
30012+48.87 to 30014+03.72	LT		154.9					
30014+77.72 to 30020+17.41	RT		539.7					
30016+33.58 to 30019+01.78	LT		268.2					
30020+36.54 to 30021+68.58	RT		128.5					
30020+80.95 to 30021+98.07	LT		120.3					
30021+21.65 to 30022+22.73	LT		206.0					
30021+55.91 to 30024+70.71	LT		465.8					
30021+68.58 to 30026+21.71	RT		472.3					
30021+98.07 to 30021+99.68	LT		1.8					
30021+99.68 to 30022+10.01	LT		10.8					
30022+10.01 to 30022+17.21	LT		8.2					
30022+17.10 to 30022+22.73	LT		17.7					
30025+02.57 to 30026+56.10	LT		157.5					
30026+55.25 to 30027+58.73	RT		272.2					
30027+78.53 to 30028+83.72	RT		181.3					
30028+35.76 to 30030+61.69	LT		271.4					
30028+83.72 to 30029+02.20	RT		18.5					
30029+02.20 to 30029+36.43	RT		34.3					
30029+36.43 to 30030+44.05	RT		107.6					
30032+68.84 to 30033+68.44	RT		99.6					
30034+24.01 to 30035+34.90	RT		110.9					
30036+21.45 to 30037+24.25	LT		102.8					
30041+96.24 to 30042+76.20	RT		80.0					
30043+39.03 to 30044+34.09	RT		84.9					
30043+44.37 to 30043+88.32	LT		103.8					
30053+99.44 to 30055+36.65	LT		137.2					
30054+36.87 to 30055+61.74	RT		124.9					
30055+36.65 to 30055+67.47	LT		31.6					
12+24.70 to 12+28.04	RT				1			
12+38.29 to 12+41.64	RT				1			
13+03.82 to 13+07.17	RT				1			
14+55.62 to 14+58.97	RT				1			
15+14.89 to 15+18.24	RT				1			
15+15.16 to 15+18.50	RT				1			
15+33.61 to 15+36.96	RT				1			
SUB-TOTAL:			6323.8		7			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
276

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 18			
			LF		EA			
P	F	P	F					
15+53.11 to 15+56.46	RT				1			
17+36.99 to 17+40.33	RT				1			
17+40.95 to 17+44.30	RT				1			
17+89.43 to 17+92.77	RT				1			
17+90.86 to 17+94.21	RT				1			
18+45.45 to 18+48.80	RT				1			
19+58.69 to 19+62.04	RT				1			
10000+18.62 to 10000+18.63	LT				1			
10006+06.26 to 10006+06.27	LT				1			
10006+06.27 to 10006+06.27	RT				1			
10006+06.36 to 10006+06.37	LT				1			
10006+15.94 to 10006+15.95	RT				1			
10006+26.08 to 10006+26.09	RT				1			
10007+05.45 to 10007+05.46	LT				1			
10007+05.66 to 10007+05.66	RT				1			
10009+15.06 to 10009+15.06	LT				1			
10011+88.84 to 10011+88.84	LT				1			
10014+75.56 to 10014+75.56	LT				1			
10016+63.11 to 10016+63.11	RT				1			
10016+86.98 to 10016+86.98	LT				1			
10016+93.25 to 10016+93.25	RT				1			
10018+25.56 to 10018+25.57	RT				1			
10018+52.69 to 10018+52.70	RT				1			
10018+56.53 to 10018+56.54	RT				1			
10019+35.59 to 10019+35.59	RT				1			
10020+08.89 to 10020+08.89	RT				1			
10020+33.95 to 10020+33.95	LT				1			
10022+70.00 to 10022+70.00	LT				1			
10022+70.00 to 10022+70.00	RT				1			
10025+85.00 to 10025+85.00	LT				1			
10025+85.00 to 10025+85.00	RT				1			
10026+88.07 to 10026+88.08	LT				1			
10027+99.90 to 10027+99.91	RT				1			
10028+44.59 to 10028+45.03	LT				1			
10028+44.62 to 10028+45.06	LT				1			
10028+53.26 to 10028+53.71	RT				1			
20004+96.38 to 20005+00.38	RT				1			
20007+06.38 to 20007+10.38	RT				1			
20008+70.14 to 20008+74.14	RT				1			
20009+52.87 to 20009+56.87	RT				1			
20011+56.50 to 20011+60.50	RT				1			
20011+98.56 to 20012+02.56	RT				1			
20013+81.17 to 20013+85.17	LT				1			
20013+95.98 to 20013+99.98	RT				1			
20014+07.60 to 20014+11.60	LT				1			
20014+07.65 to 20014+11.65	LT				1			
20014+74.54 to 20014+78.54	LT				1			
SUB-TOTAL:						47		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
277

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 18			
			LF		EA			
P	F	P	F					
20015+83.44 to 20015+87.44	RT				1			
20016+50.82 to 20016+54.82	LT				1			
20016+68.78 to 20016+72.78	RT				1			
20016+93.72 to 20016+97.72	LT				1			
20017+27.84 to 20017+31.84	LT				1			
20017+90.32 to 20017+94.32	LT				1			
20018+07.86 to 20018+11.86	LT				1			
20018+07.96 to 20018+11.96	LT				1			
20018+08.08 to 20018+12.08	LT				1			
20018+08.27 to 20018+12.27	RT				1			
20018+93.20 to 20018+97.20	RT				1			
20025+00.99 to 20025+04.99	RT				1			
20025+01.30 to 20025+05.30	RT				1			
20025+01.81 to 20025+05.81	LT				1			
20025+01.93 to 20025+05.93	LT				1			
20025+73.17 to 20025+77.17	RT				1			
20033+34.34 to 20033+38.34	RT				1			
20034+12.95 to 20034+16.95	LT				1			
20034+19.17 to 20034+23.17	LT				1			
20035+76.40 to 20035+80.40	LT				1			
20035+77.13 to 20035+81.13	RT				1			
20035+77.66 to 20035+81.66	LT				1			
20036+24.91 to 20036+28.91	LT				1			
20036+71.54 to 20036+75.54	RT				1			
20038+46.33 to 20038+50.33	LT				1			
20038+46.42 to 20038+50.42	RT				1			
20042+37.46 to 20042+41.46	LT				1			
20042+74.46 to 20042+78.46	LT				1			
20043+18.02 to 20043+22.02	LT				1			
30021+76.72 to 30021+79.19	LT				1			
30022+82.75 to 30022+85.22	RT				1			
30023+51.91 to 30023+54.38	LT				1			
30027+27.25 to 30027+29.72	RT				1			
30028+29.93 to 30028+29.93	LT				1			
30031+76.12 to 30031+76.13	RT				1			
30032+38.44 to 30032+38.45	RT				1			
30033+25.15 to 30033+25.15	RT				1			
30055+59.13 to 30055+59.14	LT				1			
30056+08.07 to 30056+08.08	LT				1			
30056+18.68 to 30056+18.68	LT				1			
SUB-TOTAL :					40			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
278

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4	TYPE B STABILIZATION	10007+72.54 to 10008+80.40		RT	144917			SY	126.8		18078			
		10009+66.36 to 10010+74.21		RT	144930				149.5					
		10011+34.09 to 10012+41.82		RT	144953				149.3					
		10014+07.74 to 10014+71.37		RT	144941				84.0					
		10018+09.18 to 10018+09.18		RT	144752				4948.4					
		10019+55.40 to 10019+71.51		RT	140752				35.1					
		10028+49.04 to 10030+03.60		RT	144765				121.5					
		10029+45.20 to 10029+84.18		LT	144753				46.0					
		20010+05.00 to 20018+20.00		LT/RT					4937.4					
		30020+41.42 to 30030+37.58		LT/RT					7473.7					
285708	OPTIONAL BASE, BASE GROUP 08	10007+76.54 to 10008+76.40		RT	122501			SY	95.8		13559			
		10009+70.36 to 10010+70.21		RT	122508				95.8					
		10011+38.09 to 10012+37.82		RT	122515				95.7					
		10014+11.74 to 10014+67.37		RT	122522				51.6					
		10015+39.99 to 10016+58.73		LT/RT	119425				297.5					
		10016+03.67 to 10016+54.55		RT	119223				7.3					
		10016+41.18 to 10016+54.00		RT	119488				8.1					
		10016+46.65 to 10016+57.08		RT	119515				0.7					
		10016+46.96 to 10016+54.59		RT	119494				1.2					
		10016+47.85 to 10016+63.44		RT	119499				12.7					
		10016+53.70 to 10016+64.62		RT	119520				0.7					
		10016+54.54 to 10016+64.12		RT	119444				8.1					
		10016+56.29 to 10016+64.32		RT	119504				1.3					
		10016+56.78 to 10016+69.68		RT	119509				8.9					
		10016+59.94 to 10016+70.77		RT	119481				0.7					
		10016+60.11 to 10016+64.84		RT	119451				1.2					
		10016+61.00 to 10016+73.99		RT	119456				12.6					
		10016+63.94 to 10016+75.11		RT	119474				0.7					
		10016+69.87 to 10016+74.93		RT	119469				1.3					
		10016+70.60 to 10016+80.85		RT	119463				9.0					
		10017+14.00 to 10017+97.03		LT	119232				28.0					
		10017+18.84 to 10018+88.56		LT/RT	119413				325.9					
		10017+44.77 to 10019+68.02		RT	119617				958.6					
		10017+93.11 to 10018+13.81		RT	119406				2.2					
		10017+93.21 to 10018+11.61		RT	119392				2.0					
		10017+94.40 to 10018+13.22		RT	119400				18.6					
		10018+03.62 to 10018+03.62		RT	119525				1544.5					
		10018+09.84 to 10018+27.02		RT	119261				10.4					
		10018+13.77 to 10018+20.32		RT	119256				0.6					
		10018+14.22 to 10018+26.97		RT	119268				1.5					
		10018+14.83 to 10018+30.59		RT	119274				12.7					
		10018+18.28 to 10018+38.98		RT	119375				2.2					
		10018+18.87 to 10018+37.69		RT	119380				18.6					
		10018+19.83 to 10018+30.99		RT	119279				1.3					
		10018+19.88 to 10018+33.85		RT	119251				8.5					
		10018+20.47 to 10018+38.88		RT	119386				2.0					
		10018+26.57 to 10018+31.44		RT	119284				0.6					
		10018+45.82 to 10018+60.22		RT	119306				9.2					
		10018+46.93 to 10018+50.67		RT	119323				0.7					
		10018+47.41 to 10018+60.02		RT	119311				1.4					
		10018+47.63 to 10018+63.33		RT	119301				14.8					
		10018+50.19 to 10018+66.69		RT	119291				9.9					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
282

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
285708	OPTIONAL BASE, BASE GROUP 08 (CONT'D)	10018+50.34 to 10018+63.71		RT	119296			SY	1.5					
		10018+59.74 to 10018+64.19		RT	119316				0.7					
		10019+12.60 to 10019+26.78		RT	119670				10.8					
		10019+17.75 to 10019+27.61		RT	119689				0.7					
		10019+18.03 to 10019+27.28		RT	119675				1.7					
		10019+18.86 to 10019+34.89		RT	119657				16.1					
		10019+26.50 to 10019+35.96		RT	119680				0.7					
		10019+26.81 to 10019+35.67		RT	119665				1.6					
		10019+27.33 to 10019+40.76		LT/RT	119652				10.1					
		10019+32.27 to 10020+40.00		LT/RT	119749				306.4					
		10019+32.86 to 10019+49.35		RT	119696				11.5					
		10019+36.59 to 10019+44.21		RT	119732				0.6					
		10019+36.96 to 10019+49.55		RT	119702				1.8					
		10019+37.59 to 10019+55.27		RT	119708				15.9					
		10019+43.50 to 10019+55.96		RT	119715				1.7					
		10019+43.84 to 10019+60.73		RT	119720				11.1					
		10019+48.29 to 10020+40.00		RT	119739				122.8					
		10019+48.97 to 10019+56.33		RT	119727				0.6					
		10019+55.40 to 10019+71.51		RT	129377				35.1					
		10019+55.89 to 10020+52.71		RT	119238				16.0					
		10019+62.64 to 10020+29.05		RT	119246				9.3					
		10028+49.04 to 10030+03.60		RT	124266				73.3					
		10029+46.34 to 10029+84.18		LT	124260				30.7					
		20010+65.00 to 20013+40.01		LT/RT	119195				860.3					
		20014+23.86 to 20014+58.68		LT	119218				8.6					
		20015+75.41 to 20015+75.41		LT	86046				2992.6					
		20015+86.87 to 20015+86.87		LT	119775				90.2					
		30022+82.00 to 30022+82.00		RT	119765				57.2					
		30025+15.07 to 30025+15.07		LT	125091				5127.0					
		30028+11.49 to 30028+11.49		LT	119770				57.2					
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	9999+90.33 to 10015+40.00		LT/RT	121757			SY	5877.2		30830			
		10020+40.00 to 10030+00.00		LT	123859				3984.3					
		20018+20.00 to 30020+60.00		LT	122020				11586.2					
		30030+20.00 to 30058+64.05		RT	122202				9382.2					
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22	10007+76.54 to 10008+76.40		RT	145645			TN	10.54		1491.5			
		10009+70.36 to 10010+70.21		RT	145652				10.54					
		10011+38.09 to 10012+37.82		RT	145659				10.52					
		10014+11.74 to 10014+67.37		RT	145666				5.67					
		10015+39.99 to 10016+58.73		LT/RT	145323				32.72					
		10016+03.67 to 10016+54.55		RT	145167				0.80					
		10016+41.18 to 10016+54.00		RT	145386				0.89					
		10016+46.65 to 10016+57.08		RT	145413				0.07					
		10016+46.96 to 10016+54.59		RT	145392				0.14					
		10016+47.85 to 10016+63.44		RT	145397				1.40					
		10016+53.70 to 10016+64.62		RT	145418				0.07					
		10016+54.54 to 10016+64.12		RT	145342				0.89					
		10016+56.29 to 10016+64.32		RT	145402				0.15					
		10016+56.78 to 10016+69.68		RT	145407				0.98					
		10016+59.94 to 10016+70.77		RT	145379				0.07					
		10016+60.11 to 10016+64.84		RT	145349				0.14					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
283

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22 (CONT'D)	10016+61.00 to 10016+73.99		RT	145354			TN	1.39					
		10016+63.94 to 10016+75.11		RT	145372				0.07					
		10016+69.87 to 10016+74.93		RT	145367				0.15					
		10016+70.60 to 10016+80.85		RT	145361				0.99					
		10017+14.00 to 10017+97.03		LT	145176				3.08					
		10017+18.84 to 10018+88.56		LT/RT	145311				35.85					
		10017+44.77 to 10019+68.02		RT	145476				105.45					
		10017+93.11 to 10018+13.81		RT	145304				0.24					
		10017+93.21 to 10018+11.61		RT	145290				0.22					
		10017+94.40 to 10018+13.22		RT	145298				2.05					
		10018+03.62 to 10018+03.62		RT	145423				169.89					
		10018+09.84 to 10018+27.02		RT	145205				1.14					
		10018+13.77 to 10018+20.32		RT	145200				0.07					
		10018+14.22 to 10018+26.97		RT	145212				0.17					
		10018+14.83 to 10018+30.59		RT	145218				1.40					
		10018+18.28 to 10018+38.98		RT	145273				0.24					
		10018+18.87 to 10018+37.69		RT	145278				2.05					
		10018+19.83 to 10018+30.99		RT	145223				0.15					
		10018+19.88 to 10018+33.85		RT	145195				0.93					
		10018+20.47 to 10018+38.88		RT	145284				0.22					
		10018+26.57 to 10018+31.44		RT	145228				0.07					
		10018+45.82 to 10018+60.22		RT	145250				1.01					
		10018+46.93 to 10018+50.67		RT	145267				0.07					
		10018+47.41 to 10018+60.02		RT	145255				0.16					
		10018+47.63 to 10018+63.33		RT	145245				1.62					
		10018+50.19 to 10018+66.69		RT	145235				1.09					
		10018+50.34 to 10018+63.71		RT	145240				0.17					
		10018+59.74 to 10018+64.19		RT	145260				0.07					
		10019+12.60 to 10019+26.78		RT	145529				1.19					
		10019+17.75 to 10019+27.61		RT	145548				0.07					
		10019+18.03 to 10019+27.28		RT	145534				0.18					
		10019+18.86 to 10019+34.89		RT	145516				1.77					
		10019+26.50 to 10019+35.96		RT	145539				0.07					
		10019+26.81 to 10019+35.67		RT	145524				0.17					
		10019+27.33 to 10019+40.76		LT/RT	145511				1.11					
		10019+32.27 to 10020+40.00		LT/RT	145608				33.70					
		10019+32.86 to 10019+49.35		RT	145555				1.27					
		10019+36.59 to 10019+44.21		RT	145591				0.07					
		10019+36.96 to 10019+49.55		RT	145561				0.20					
		10019+37.59 to 10019+55.27		RT	145567				1.75					
		10019+43.50 to 10019+55.96		RT	145574				0.19					
		10019+43.84 to 10019+60.73		RT	145579				1.22					
		10019+48.29 to 10020+40.00		RT	145598				13.51					
		10019+48.97 to 10019+56.33		RT	145586				0.07					
		10019+55.40 to 10019+71.51		RT	145858				3.86					
		10019+55.89 to 10020+52.71		RT	145182				1.76					
		10019+62.64 to 10020+29.05		RT	145190				1.02					
		10028+49.04 to 10030+03.60		RT	145687				8.06					
		10029+46.34 to 10029+84.18		LT	145681				3.38					
		20010+65.00 to 20013+40.01		LT/RT	145139				94.63					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
284

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.	DESCRIPTION						P	F	P	F			
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22 (CONT'D)	20014+23.86 to 20014+58.68		LT	145162			TN	0.95						
		20015+75.41 to 20015+75.41		LT	145046				329.18						
		20015+86.87 to 20015+86.87		LT	145634				9.93						
		30022+82.00 to 30022+82.00		RT	145624				6.30						
		30025+15.07 to 30025+15.07		LT	145699				563.97						
		30028+11.49 to 30028+11.49		LT	145629				6.30						
0523 1	PATTERNED PAVEMENT , VEHICULAR AREAS	9999+90.15 to 10000+28.65		LT/RT	139268			SY	268.9		4152				
		10002+09.12 to 10002+20.25		LT/RT	139615				24.6						
		10012+67.56 to 10012+78.57		LT/RT	139499				24.5						
		10016+12.41 to 10016+27.87		RT	139590				11.2						
		10016+46.96 to 10016+64.32		RT	139251				15.2						
		10016+60.11 to 10016+74.93		RT	139260				15.2						
		10016+62.79 to 10016+83.46		RT	139597				40.4						
		10016+77.86 to 10017+22.51		RT	139518				41.7						
		10017+72.87 to 10018+23.35		RT	139527				51.2						
		10017+93.11 to 10018+13.81		RT	139604				22.8						
		10018+01.22 to 10018+01.22		RT	139844				315.6						
		10018+14.22 to 10018+30.99		RT	139240				15.6						
		10018+18.28 to 10018+38.98		RT	139508				22.8						
		10018+28.02 to 10018+50.50		RT	139574				35.6						
		10018+31.51 to 10018+46.33		RT	139537				10.8						
		10018+42.30 to 10018+55.65		RT	139579				9.6						
		10018+43.80 to 10018+55.83		RT	139584				1.4						
		10018+47.41 to 10018+63.71		RT	139231				17.7						
		10018+53.13 to 10019+00.70		RT	139567				49.7						
		10018+77.15 to 10019+20.19		RT	139560				40.9						
		10019+17.83 to 10019+44.85		RT	139554				59.4						
		10019+18.03 to 10019+35.67		RT	139220				19.4						
		10019+36.96 to 10019+55.96		RT	139211				19.4						
		10019+52.00 to 10019+67.86		LT/RT	139547				13.8						
		10026+05.24 to 10026+16.24		LT/RT	139823				45.4						
		20014+17.38 to 20014+31.15		LT/RT	139625				11.5						
		20014+28.37 to 20014+59.22		LT	139483				24.7						
		20014+44.56 to 20014+57.32		LT	139488				10.7						
		20014+57.52 to 20014+72.00		LT	139630				11.0						
		20014+63.67 to 20014+81.35		LT	139311				15.8						
		20014+72.19 to 20014+82.11		LT	139303				1.5						
		20014+78.09 to 20014+92.54		LT	139807				16.9						
		20014+78.22 to 20015+02.86		LT	139639				39.3						
20014+79.92 to 20014+89.59		LT	139478				1.2								
20014+80.59 to 20014+96.67		LT	139297				13.3								
20014+98.98 to 20015+14.79		LT	139813				15.0								
20015+11.45 to 20015+60.75		LT	139466				40.5								
20015+86.87 to 20015+86.87		LT	139102				165.8								
20016+10.44 to 20016+33.19		RT	139320				28.6								
20016+26.33 to 20016+65.22		LT/RT	139650				4.8								
20016+84.90 to 20016+98.05		LT/RT	139795				15.0								
20016+94.08 to 20017+12.66		LT	139802				18.5								
20022+39.41 to 20022+49.49		LT/RT	139790				22.2								
30004+50.20 to 30005+45.16		LT/RT	139191				722.9								

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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 I**

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

SUMMARY OF QUANTITIES

SHEET NO.
285

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0523 1	PATTERNED PAVEMENT , VEHICULAR AREAS (CONT'D)	30012+25.15 to 30013+47.40		LT/RT	139170			SY	158.3					
		30012+28.85 to 30013+46.39		LT	139828				160.7					
		30021+09.89 to 30021+23.50		RT	139460				11.9					
		30021+40.36 to 30021+55.15		RT	139656				12.9					
		30021+81.10 to 30021+97.21		RT	139450				19.7					
		30021+84.39 to 30021+98.54		LT/RT	139666				15.7					
		30022+20.51 to 30022+60.99		LT	139698				7.0					
		30022+21.51 to 30022+45.10		RT	139399				4.2					
		30022+35.97 to 30022+50.27		LT	139439				14.7					
		30022+58.95 to 30022+73.19		LT	139423				14.9					
		30022+72.31 to 30023+06.14		LT	139693				3.3					
		30022+82.00 to 30022+82.00		RT	139855				188.5					
		30023+10.99 to 30023+39.61		RT	139688				4.1					
		30023+18.15 to 30023+41.44		LT/RT	139405				4.0					
		30023+66.44 to 30023+81.08		LT/RT	139678				18.2					
		30023+67.56 to 30023+83.72		RT	139413				19.8					
		30024+08.94 to 30024+19.96		LT/RT	139709				10.9					
		30024+37.94 to 30024+48.54		LT/RT	139392				10.2					
		30024+69.55 to 30025+08.01		LT	139720				36.2					
		30026+21.14 to 30026+51.18		RT	139385				29.0					
		30026+46.53 to 30026+76.49		LT	139159				25.3					
		30026+55.42 to 30026+67.22		RT	139377				9.9					
		30026+80.46 to 30026+92.14		LT/RT	139728				10.2					
		30026+91.48 to 30027+11.38		LT	139734				22.0					
		30027+07.54 to 30027+20.44		LT/RT	139368				17.8					
		30027+28.86 to 30028+02.46		LT	139743				4.5					
		30027+54.23 to 30027+93.84		RT	139753				3.6					
		30027+80.85 to 30027+93.55		RT	139343				14.9					
		30028+04.83 to 30028+17.43		RT	139762				14.7					
		30028+05.60 to 30028+22.23		LT	139359				21.4					
		30028+11.49 to 30028+11.49		LT	139097				188.5					
		30028+14.37 to 30028+70.75		LT	139353				7.0					
		30028+95.24 to 30029+07.90		LT/RT	139774				14.7					
		30028+96.24 to 30029+11.79		LT	139336				18.7					
		30029+39.00 to 30029+49.19		LT	139329				13.4					
		30029+66.19 to 30029+77.40		LT	139785				12.1					
		30042+76.20 to 30044+59.09		LT/RT	139113				637.1					

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"	858.4		ALL ROUNDABOUTS (SY)	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
286

SUMMARY OF RAILING

LOCATION	SIDE	PED/BICYCLE RAILING (ALUMINUM ONLY) (42" TYPE 5)		DESIGN NOTES	CONSTRUCTION REMARKS
		0515	2315		
STA. TO STA.		LF			
		P	F		
20012+65.00 to 20013+94.18	RT	129.2			
20013+99.43 to 20014+25.00	RT	25.6			
20034+24.96 to 20036+90.01	LT	265.0			
30022+76.55 to 30022+92.43	RT	15.9			
30023+51.40 to 30023+66.45	LT	16.2			
30027+21.28 to 30027+26.69	RT	5.4			
30027+26.69 to 30027+39.75	RT	13.1			
30028+40.12 to 30028+43.45	LT	6.1			
30028+43.45 to 30028+53.64	LT	18.7			
30028+74.33 to 30028+91.79	RT	18.8			
SUB-TOTAL :		514.0			
TOTAL :		514			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.					GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
								TYPE	LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E	10016+03.67	to 10016+05.00	RT		LF	8.1			8.1	3221				
		10016+03.67	to 10016+23.10	RT			21.1			21.1					
		10016+05.00	to 10016+06.24	RT			1.2			1.2					
		10016+06.24	to 10016+33.89	RT			28.3			28.3					
		10016+23.10	to 10016+64.79	RT			46.1			46.1					
		10016+33.89	to 10016+67.53	RT			37.3			37.3					
		10016+64.79	to 10016+82.88	RT			24.0			24.0					
		10016+67.53	to 10016+72.87	RT			6.0			6.0					
		10016+72.87	to 10016+86.94	RT			15.5			15.5					
		10016+82.88	to 10016+84.60	RT			2.1			2.1					
		10016+84.60	to 10016+84.79	RT			0.6			0.6					
		10016+84.79	to 10016+89.28	RT			13.0			13.0					
		10016+86.94	to 10016+89.28	RT			6.7			6.7					
		10018+15.86	to 10018+18.91	RT			8.8			8.8					
		10018+15.86	to 10018+32.93	RT			32.5			32.5					
		10018+18.91	to 10018+47.01	RT			28.5			28.5					
		10018+32.93	to 10018+38.74	RT			14.8			14.8					
		10018+38.74	to 10018+44.64	RT			8.7			8.7					
		10018+43.96	to 10018+44.64	RT			8.6			8.6					
		10018+43.96	to 10018+52.48	RT			44.5			44.5					
		10018+47.01	to 10018+51.44	RT			4.5			4.5					
		10018+51.44	to 10018+52.48	RT			2.3			2.3					
		10019+05.66	to 10019+06.07	RT			2.1			2.1					
		10019+05.66	to 10019+08.88	RT			4.8			4.8					
		10019+06.07	to 10019+30.78	RT			28.7			28.7					
		10019+08.88	to 10019+17.23	RT			13.0			13.0					
		10019+17.23	to 10019+24.20	RT			8.0			8.0					
		10019+24.20	to 10019+37.80	RT			21.9			21.9					
		10019+30.78	to 10019+98.46	LT/RT			74.3			74.3					
		10019+37.80	to 10019+55.89	RT			24.5			24.5					
		10019+55.89	to 10019+68.34	RT			14.8			14.8					
		10019+68.34	to 10019+97.00	RT			30.0			30.0					
		10019+96.71	to 10020+52.71	RT			56.1			56.1					
		10019+98.46	to 10020+43.45	LT			45.0			45.0					
		10020+43.45	to 10020+83.54	LT			40.4			40.4					
		10020+52.71	to 10020+82.94	RT			30.2			30.2					
		10020+82.94	to 10020+83.54	LT/RT			8.8			8.8					
		10023+36.52	to 10023+38.94	LT			11.0			11.0					
		10023+36.52	to 10023+39.24	LT			6.0			6.0					
		10023+38.94	to 10023+38.94	LT			5.0			5.0					
		10023+38.94	to 10023+41.94	LT			4.7			4.7					
		10023+39.24	to 10023+44.26	LT			5.0			5.0					
		10023+41.94	to 10023+53.90	LT			12.0			12.0					
		10023+44.26	to 10023+47.99	LT			4.2			4.2					
		10023+47.99	to 10023+56.47	LT			20.0			20.0					
		10023+53.51	to 10023+56.47	LT			5.2			5.2					
		20013+94.96	to 20013+96.37	LT			9.0			9.0					
		20013+94.96	to 20014+22.66	LT			30.0			30.0					
		20013+96.37	to 20014+26.78	LT			31.5			31.5					
		20014+22.66	to 20014+26.78	LT			16.8			16.8					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
290

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E (CONT'D)	20014+60.66 to 20014+66.04	LT		LF	18.4			18.4					
		20014+60.66 to 20014+69.12	LT			9.6			9.6					
		20014+66.04 to 20014+73.11	LT			7.9			7.9					
		20014+69.12 to 20014+78.08	LT			10.5			10.5					
		20014+69.95 to 20014+78.23	LT			15.0			15.0					
		20014+69.95 to 20014+84.51	LT			25.5			25.5					
		20014+73.11 to 20014+78.09	LT			5.6			5.6					
		20014+78.08 to 20014+92.79	LT			17.8			17.8					
		20014+78.09 to 20015+07.25	LT			30.9			30.9					
		20014+78.23 to 20014+81.43	LT			5.1			5.1					
		20014+81.43 to 20015+08.57	LT			42.5			42.5					
		20014+84.51 to 20014+99.48	LT			23.4			23.4					
		20014+92.79 to 20014+98.91	LT			6.8			6.8					
		20014+98.91 to 20015+07.32	LT			14.0			14.0					
		20014+99.48 to 20015+09.50	LT			19.4			19.4					
		20015+07.25 to 20015+07.90	LT			2.1			2.1					
		20015+07.32 to 20015+07.90	LT			0.9			0.9					
		20015+08.57 to 20015+17.64	LT			14.3			14.3					
		20015+09.50 to 20015+11.20	LT			2.1			2.1					
		20015+11.20 to 20015+17.65	LT			10.2			10.2					
		20015+17.64 to 20015+17.65	LT			6.2			6.2					
		20016+17.53 to 20016+19.27	RT			4.1			4.1					
		20016+17.53 to 20016+20.46	RT			7.3			7.3					
		20016+19.27 to 20016+26.33	RT			7.1			7.1					
		20016+20.46 to 20016+24.17	RT			4.8			4.8					
		20016+24.17 to 20016+28.24	RT			8.3			8.3					
		20016+26.33 to 20016+28.24	RT			4.6			4.6					
		20016+70.67 to 20016+73.70	LT			7.3			7.3					
		20016+70.67 to 20016+75.22	LT			14.0			14.0					
		20016+73.70 to 20016+94.47	LT			21.6			21.6					
		20016+75.22 to 20016+77.00	LT			6.5			6.5					
		20016+77.00 to 20016+78.71	LT			2.2			2.2					
		20016+78.71 to 20017+26.12	LT			56.8			56.8					
		20016+94.47 to 20017+03.38	LT			9.4			9.4					
		20017+03.38 to 20017+47.69	LT/RT			45.3			45.3					
		20017+26.12 to 20017+38.57	LT			13.0			13.0					
		20017+38.57 to 20017+48.74	LT			10.6			10.6					
		20017+47.69 to 20017+48.74	LT/RT			8.6			8.6					
		30020+94.70 to 30020+95.49	LT/RT			8.8			8.8					
		30020+94.70 to 30021+03.55	RT			9.2			9.2					
		30020+95.49 to 30021+15.14	LT/RT			19.8			19.8					
		30021+03.55 to 30021+50.23	RT			47.2			47.2					
		30021+15.14 to 30021+29.51	RT			14.5			14.5					
		30021+29.51 to 30021+92.27	RT			62.4			62.4					
		30021+50.23 to 30022+21.04	RT			72.0			72.0					
		30021+87.42 to 30021+91.29	LT			8.4			8.4					
		30021+87.42 to 30022+05.08	LT			25.8			25.8					
		30021+91.29 to 30022+22.63	LT			40.4			40.4					
		30021+92.27 to 30021+95.34	RT			3.1			3.1					
		30021+95.34 to 30022+16.86	RT			21.6			21.6					

<p align="center">REVISIONS</p> <table border="1"> <thead> <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>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p>MARK W. SUAREZ, P.E. LICENSE NO. 76977 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242</p> 		<p align="center">SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1</p> <table border="1"> <thead> <tr> <th>ROAD</th> <th>COUNTY CIP No.</th> </tr> </thead> <tbody> <tr> <td>RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.</td> <td>01907084</td> </tr> </tbody> </table>		ROAD	COUNTY CIP No.	RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084	<p align="center">SUMMARY OF QUANTITIES</p>		<p align="center">SHEET NO. 291</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																			
ROAD	COUNTY CIP No.																					
RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084																					

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E (CONT'D)	30022+05.08 to 30022+14.39	LT		LF	13.3			13.3					
		30022+14.39 to 30022+22.63	LT			17.8			17.8					
		30022+16.86 to 30022+21.70	RT			7.3			7.3					
		30022+21.04 to 30022+22.55	RT			2.3			2.3					
		30022+21.70 to 30022+22.01	RT			14.0			14.0					
		30022+22.01 to 30022+22.55	RT			6.9			6.9					
		30022+44.71 to 30022+45.47	LT			2.5			2.5					
		30022+44.71 to 30022+56.10	LT			18.9			18.9					
		30022+45.47 to 30022+51.97	LT			21.4			21.4					
		30022+51.97 to 30022+55.04	LT			19.4			19.4					
		30022+55.04 to 30022+56.52	LT			2.1			2.1					
		30022+56.10 to 30022+56.67	LT			1.9			1.9					
		30022+56.52 to 30022+65.46	LT			10.2			10.2					
		30022+56.67 to 30022+63.34	LT			21.9			21.9					
		30022+63.34 to 30022+67.59	LT			14.3			14.3					
		30022+65.46 to 30022+67.59	LT			6.2			6.2					
		30023+40.68 to 30023+41.93	RT			9.8			9.8					
		30023+40.68 to 30023+42.05	RT			2.2			2.2					
		30023+41.93 to 30023+42.59	RT			14.0			14.0					
		30023+42.05 to 30024+09.63	RT			69.1			69.1					
		30023+42.59 to 30023+48.16	RT			7.9			7.9					
		30023+48.16 to 30023+79.85	RT			32.6			32.6					
		30023+79.85 to 30024+80.22	RT			101.2			101.2					
		30024+09.63 to 30024+71.36	RT			62.5			62.5					
		30024+71.36 to 30025+84.85	RT			113.6			113.6					
		30024+80.22 to 30026+01.95	RT			121.9			121.9					
		30025+84.85 to 30027+01.92	LT/RT			123.1			123.1					
		30026+01.95 to 30026+83.02	RT			84.5			84.5					
		30026+83.02 to 30027+40.68	LT/RT			59.9			59.9					
		30027+01.92 to 30027+22.82	LT			24.8			24.8					
		30027+22.82 to 30027+29.35	LT			7.7			7.7					
		30027+29.35 to 30027+35.09	LT			14.0			14.0					
		30027+35.09 to 30027+41.57	LT			12.8			12.8					
		30027+40.68 to 30027+41.57	LT			2.3			2.3					
		30027+92.08 to 30027+94.64	RT			18.9			18.9					
		30027+92.08 to 30028+03.64	RT			18.0			18.0					
		30027+94.64 to 30027+96.68	RT			14.3			14.3					
		30027+96.68 to 30028+00.88	RT			6.2			6.2					
		30028+00.88 to 30028+08.31	RT			7.4			7.4					
		30028+03.64 to 30028+04.91	RT			7.4			7.4					
		30028+04.91 to 30028+08.58	RT			27.0			27.0					
		30028+08.31 to 30028+09.33	RT			1.9			1.9					
		30028+08.58 to 30028+09.33	RT			3.9			3.9					
		30028+70.77 to 30028+70.95	LT			1.3			1.3					
		30028+70.77 to 30028+72.23	LT			2.2			2.2					
		30028+70.95 to 30028+72.81	LT			14.0			14.0					
		30028+72.23 to 30029+27.11	LT			56.8			56.8					
		30028+72.81 to 30028+76.98	LT			6.2			6.2					
		30028+76.98 to 30028+89.26	LT			12.3			12.3					
		30028+89.26 to 30029+52.18	LT			62.9			62.9					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
292

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E (CONT'D)	30029+27.11 to 30029+73.97	LT		LF	47.3			47.3					
		30029+52.18 to 30029+72.88	LT			20.7			20.7					
		30029+72.88 to 30029+73.97	LT			8.9			8.9					
		30056+85.47 to 30056+85.57	LT/RT			17.3			17.3					
		30056+85.47 to 30056+98.09	RT			12.6			12.6					
		30056+85.57 to 30056+98.19	LT			12.6			12.6					
		30056+98.09 to 30056+98.19	LT/RT			17.3			17.3					
0520 1 10	Concrete Curb & Gutter, Type F	10000+14.99 to 10000+15.10	LT		LF	6.7			6.7	12700				
		10000+14.99 to 10000+32.57	LT			21.5			21.5					
		10000+15.10 to 10000+16.77	LT			1.7			1.7					
		10000+32.57 to 10001+86.06	LT			153.5			153.5					
		10001+86.06 to 10003+00.73	LT			114.7			114.7					
		10002+01.76 to 10002+11.00	RT			9.2			9.2					
		10002+11.00 to 10002+27.75	RT			16.7			16.7					
		10003+00.73 to 10005+02.80	LT			202.1			202.1					
		10005+02.80 to 10005+63.50	LT			60.7			60.7					
		10005+63.50 to 10005+99.04	LT			35.6			35.6					
		10005+99.04 to 10006+28.83	LT			29.8			29.8					
		10006+28.83 to 10006+53.84	LT			39.3			39.3					
		10006+53.84 to 10006+53.84	LT			11.9			11.9					
		10006+74.43 to 10006+74.43	LT			14.8			14.8					
		10006+74.43 to 10006+99.42	LT			39.3			39.3					
		10006+99.42 to 10012+79.07	LT			579.7			579.7					
		10007+72.54 to 10007+77.44	RT			6.8			6.8					
		10007+72.54 to 10008+80.42	RT			107.9			107.9					
		10007+77.44 to 10007+82.33	RT			6.8			6.8					
		10007+82.33 to 10008+70.61	RT			88.3			88.3					
		10008+70.61 to 10008+75.51	RT			6.8			6.8					
		10008+75.51 to 10008+80.40	RT			6.8			6.8					
		10009+66.36 to 10009+71.26	RT			6.8			6.8					
		10009+66.36 to 10010+74.13	RT			107.8			107.8					
		10009+71.26 to 10009+76.15	RT			6.8			6.8					
		10009+76.15 to 10010+64.41	RT			88.3			88.3					
		10010+64.41 to 10010+69.31	RT			6.8			6.8					
		10010+69.31 to 10010+74.21	RT			6.8			6.8					
		10011+34.09 to 10011+38.99	RT			6.8			6.8					
		10011+34.09 to 10012+41.82	RT			107.7			107.7					
		10011+38.99 to 10011+43.88	RT			6.8			6.8					
		10011+43.88 to 10012+32.01	RT			88.1			88.1					
		10012+32.01 to 10012+36.91	RT			6.8			6.8					
10012+36.91 to 10012+41.82	RT			6.8			6.8							
10012+67.06 to 10012+85.06	RT			18.0			18.0							
10012+79.07 to 10013+04.08	LT			39.3			39.3							
10013+04.08 to 10013+04.08	LT			9.8			9.8							
10013+26.07 to 10013+26.08	LT			7.9			7.9							
10013+26.07 to 10013+51.06	LT			39.3			39.3							
10013+51.06 to 10016+00.92	LT			249.9			249.9							
10014+07.74 to 10014+12.64	RT			6.8			6.8							
10014+07.74 to 10014+71.36	RT			63.6			63.6							
		10014+12.64 to 10014+17.55	RT			6.8			6.8					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	10014+17.55 to 10014+61.58	RT		LF	44.0			44.0					
		10014+61.58 to 10014+66.47	RT			6.8			6.8					
		10014+66.47 to 10014+71.36	RT			6.8			6.8					
		10015+32.71 to 10015+88.44	RT			56.2			56.2					
		10015+99.66 to 10016+46.26	RT			50.1			50.1					
		10016+14.36 to 10016+42.18	LT/RT			28.6			28.6					
		10016+42.18 to 10016+65.34	RT			25.6			25.6					
		10016+65.34 to 10017+00.10	RT			36.1	9.0		27.1					
		10016+74.18 to 10016+87.60	RT			28.7			28.7					
		10016+87.60 to 10017+16.39	RT			38.7			38.7					
		10017+00.10 to 10017+84.21	RT			84.1			84.1					
		10017+14.00 to 10017+18.84	LT/RT			19.9			19.9					
		10017+14.00 to 10017+19.26	LT			8.1			8.1					
		10017+16.39 to 10017+62.03	RT			47.0			47.0					
		10017+18.84 to 10017+89.51	RT			70.7			70.7					
		10017+62.03 to 10018+23.50	RT			80.8			80.8					
		10017+84.21 to 10017+94.14	RT			10.8			10.8					
		10017+89.51 to 10017+94.14	RT			16.9			16.9					
		10017+90.47 to 10018+20.92	RT			38.8			38.8					
		10018+16.54 to 10018+49.30	RT			38.6			38.6					
		10018+20.92 to 10018+24.04	RT			7.7			7.7					
		10018+23.50 to 10018+24.15	RT			1.6			1.6					
		10018+24.04 to 10018+24.15	RT			37.5			37.5					
		10018+37.96 to 10018+42.59	RT			16.9			16.9					
		10018+37.96 to 10018+47.88	RT			10.8			10.8					
		10018+42.59 to 10018+88.56	RT			46.0			46.0					
		10018+45.01 to 10018+51.10	RT			14.9			14.9					
		10018+45.01 to 10018+57.65	RT			39.3			39.3					
		10018+47.88 to 10018+81.74	RT			33.9	13.0		20.9					
		10018+51.10 to 10018+56.61	RT			23.3			23.3					
		10018+56.61 to 10018+99.05	RT			89.8			89.8					
		10018+81.74 to 10019+23.01	RT			44.7			44.7					
		10018+88.56 to 10018+88.56	LT/RT			25.1			25.1					
		10018+99.05 to 10019+12.19	RT			18.9			18.9					
		10019+12.19 to 10019+48.87	RT			66.0	16.0		50.0					
		10019+23.01 to 10019+49.29	LT/RT			30.7			30.7					
		10019+48.87 to 10019+95.97	RT			56.8			56.8					
		10019+49.29 to 10019+61.84	LT			24.2			24.2					
		10019+61.62 to 10019+61.84	LT			10.9			10.9					
		10019+84.01 to 10019+84.18	LT			14.6			14.6					
		10019+84.01 to 10020+04.01	LT			31.6			31.6					
		10019+95.97 to 10020+29.05	RT			33.3	13.0		20.3					
		10020+04.01 to 10020+08.07	LT			4.1			4.1					
		10020+21.54 to 10022+95.94	LT			274.4	26.0		248.4					
		10020+29.05 to 10026+03.83	RT			574.8	26.0		548.8					
		10022+95.94 to 10023+04.18	LT			8.5			8.5					
		10023+92.39 to 10023+99.90	LT			7.7			7.7					
		10023+99.90 to 10026+27.24	LT			227.3	13.0		214.3					
		10026+27.24 to 10026+65.44	LT			38.3			38.3					
		10028+49.13 to 10030+01.88	RT			184.6			184.6					
		10029+46.34 to 10029+80.72	LT			60.6			60.6					
		20010+65.00 to 20011+43.63	RT			78.6			78.6					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
294

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	20010+65.00 to 20013+38.97	LT		LF	274.0			274.0					
		20011+43.63 to 20011+68.70	RT			39.9			39.9					
		20011+68.41 to 20011+68.70	RT			13.3			13.3					
		20011+90.37 to 20011+90.67	RT			14.7			14.7					
		20011+90.67 to 20012+15.45	RT			38.5			38.5					
		20012+15.45 to 20013+64.65	RT			149.2			149.2					
		20013+38.97 to 20014+21.20	LT			85.6	13.0		72.6					
		20013+61.37 to 20014+23.86	LT			64.8			64.8					
		20013+64.65 to 20014+50.34	LT/RT			89.1	10.5		78.6					
		20013+66.21 to 20014+20.77	LT			56.1			56.1					
		20014+20.77 to 20014+38.31	LT			32.1			32.1					
		20014+21.20 to 20014+51.49	LT			34.4			34.4					
		20014+23.86 to 20014+58.68	LT			41.2			41.2					
		20014+50.34 to 20014+71.92	LT			24.5			24.5					
		20014+51.49 to 20014+87.01	LT			48.2			48.2					
		20014+58.68 to 20014+79.19	LT			34.5			34.5					
		20014+58.92 to 20014+93.04	LT			91.5	13.0		78.5					
		20014+71.92 to 20015+43.58	LT			74.0			74.0					
		20014+79.19 to 20014+92.01	LT			23.9			23.9					
		20014+87.01 to 20014+92.01	LT			49.1			49.1					
		20014+93.04 to 20015+08.79	LT			24.6			24.6					
		20015+08.79 to 20015+60.76	LT			59.0			59.0					
		20015+43.58 to 20015+80.54	LT			42.5			42.5					
		20015+60.76 to 20016+72.92	LT			139.2			139.2					
		20015+80.54 to 20015+91.67	LT/RT			13.3	12.0	1.3						
		20015+91.67 to 20016+11.02	RT			39.4			39.4					
		20016+10.31 to 20016+11.02	RT			36.6			36.6					
		20016+31.52 to 20016+32.06	RT			42.1			42.1					
		20016+32.06 to 20016+63.07	RT			48.9			48.9					
		20016+63.07 to 20017+09.27	RT			46.8	9.0	37.8						
		20016+72.92 to 20017+45.66	LT			98.4	9.0	89.4						
		20017+09.27 to 20017+50.18	RT			41.5		41.5						
		20017+45.66 to 20017+72.30	LT			27.2		27.2						
		20017+63.64 to 20018+01.54	RT			37.9		37.9						
		20017+84.35 to 20018+20.72	LT			36.5		36.5						
		20018+20.72 to 20022+51.29	LT			430.6		430.6						
		20022+43.41 to 20022+61.41	RT			18.0		18.0						
		20022+51.29 to 20022+67.41	LT			44.1		44.1						
		20022+89.51 to 20023+01.80	LT			20.7		20.7						
		20023+01.80 to 20023+21.93	LT			23.4		23.4						
		20023+21.93 to 20024+17.77	LT			95.8		95.8						
		20024+17.77 to 20024+39.18	LT			25.7		25.7						
		20024+39.18 to 20024+49.34	LT			19.7		19.7						
		20024+80.42 to 20024+80.42	LT			14.9		14.9						
		20024+80.42 to 20024+95.42	LT			23.6		23.6						
		20024+95.42 to 20029+06.15	LT			410.7		410.7						
		20029+06.15 to 20029+31.15	LT			39.3		39.3						
		20029+31.15 to 20029+31.16	LT			12.0		12.0						
		20029+55.31 to 20029+55.32	LT			12.8		12.8						
		20029+55.31 to 20029+81.95	LT			40.9		40.9						

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	20029+81.95 to 20031+30.09	LT		LF	148.5			148.5					
		20033+16.90 to 20033+23.18	LT			6.3			6.3					
		20033+23.18 to 20033+43.16	LT			31.4			31.4					
		20033+27.34 to 20033+78.38	RT			51.0			51.0					
		20033+43.16 to 20033+43.17	LT			6.9			6.9					
		20033+71.27 to 20033+71.27	LT			6.1			6.1					
		20033+71.27 to 20033+91.10	LT			31.3			31.3					
		20033+91.10 to 20033+99.79	LT			8.7			8.7					
		30004+45.73 to 30004+50.66	RT			4.9			4.9					
		30004+50.07 to 30004+84.61	LT			55.0			55.0					
		30004+50.66 to 30004+86.11	RT			55.0			55.0					
		30004+84.48 to 30004+84.61	LT			9.7			9.7					
		30004+86.11 to 30004+86.27	RT			12.0			12.0					
		30005+15.05 to 30005+15.06	LT			14.7			14.7					
		30005+15.06 to 30005+50.06	LT			54.9			54.9					
		30005+15.32 to 30005+15.32	RT			15.5	13.0		2.5					
		30005+15.32 to 30005+50.32	RT			55.0			55.0					
		30005+50.06 to 30005+58.30	LT			8.2			8.2					
		30005+50.32 to 30005+69.34	RT			19.0			19.0					
		30006+49.97 to 30007+53.01	RT			103.5			103.5					
		30007+53.01 to 30008+08.89	RT			55.9			55.9					
		30008+08.89 to 30008+23.89	RT			23.6			23.6					
		30008+23.89 to 30008+23.89	RT			15.3			15.3					
		30008+41.50 to 30008+41.50	RT			17.5			17.5					
		30008+41.50 to 30008+56.51	RT			23.6			23.6					
		30008+56.51 to 30011+37.34	RT			280.8			280.8					
		30011+37.34 to 30011+52.33	RT			23.6			23.6					
		30011+52.33 to 30011+52.33	RT			27.4			27.4					
		30011+69.48 to 30011+69.48	RT			21.3			21.3					
		30011+69.48 to 30011+87.14	RT			26.2			26.2					
		30011+87.14 to 30012+37.98	RT			52.5			52.5					
		30012+37.98 to 30012+53.31	RT			4.1			4.1					
		30012+53.31 to 30012+76.13	RT			23.1			23.1					
		30020+41.42 to 30020+99.79	RT			59.2			59.2					
		30020+88.07 to 30021+14.47	LT			26.5			26.5					
		30021+13.78 to 30021+44.97	RT			31.4			31.4					
		30021+14.47 to 30021+18.20	LT			3.8			3.8					
		30021+28.95 to 30021+76.04	LT			48.1			48.1					
		30021+39.89 to 30021+64.59	LT			62.1			62.1					
		30021+44.97 to 30022+23.10	RT			79.8			79.8					
		30021+46.28 to 30021+79.03	LT			74.4			74.4					
		30021+64.59 to 30022+35.26	LT			115.1			115.1					
		30021+76.04 to 30022+16.32	LT			41.2			41.2					
		30021+79.03 to 30022+66.62	LT			132.7			132.7					
		30022+16.32 to 30022+38.27	LT			54.2			54.2					
		30022+23.10 to 30022+45.10	RT			27.9			27.9					
		30022+35.26 to 30022+38.27	LT			9.9			9.9					
		30022+45.10 to 30023+10.99	RT			70.0			70.0					
		30022+66.62 to 30022+70.76	LT			13.6			13.6					
		30022+70.76 to 30023+06.33	LT			54.9			54.9					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	30023+06.33 to 30023+17.59	LT		LF	13.0			13.0					
		30023+10.99 to 30024+96.35	RT			192.8			192.8					
		30023+17.59 to 30023+30.70	LT			16.3			16.3					
		30023+30.70 to 30024+14.21	LT			87.9			87.9					
		30024+14.21 to 30024+59.86	LT			46.1			46.1					
		30024+59.86 to 30024+79.39	LT			34.0			34.0					
		30024+76.48 to 30024+79.39	LT			20.5			20.5					
		30024+96.06 to 30025+00.75	LT			33.1			33.1					
		30024+96.35 to 30026+01.44	RT			105.2			105.2					
		30025+00.75 to 30025+19.62	LT			27.6			27.6					
		30025+19.62 to 30025+71.10	LT			51.5			51.5					
		30025+71.10 to 30026+30.76	LT			60.2			60.2					
		30026+01.44 to 30026+12.98	RT			11.5			11.5					
		30026+12.98 to 30026+28.31	RT			22.8			22.8					
		30026+28.31 to 30026+29.29	RT			12.7			12.7					
		30026+30.76 to 30026+53.12	LT			29.6			29.6					
		30026+48.06 to 30026+49.61	RT			17.2			17.2					
		30026+48.06 to 30026+58.39	RT			20.2			20.2					
		30026+53.12 to 30026+60.84	LT			17.0			17.0					
		30026+58.39 to 30026+81.79	RT			25.3			25.3					
		30026+66.18 to 30026+70.15	LT			7.6			7.6					
		30026+66.18 to 30026+77.69	LT			23.6			23.6					
		30026+70.15 to 30027+26.08	LT			70.1			70.1					
		30026+77.69 to 30026+80.57	LT			4.4			4.4					
		30026+80.57 to 30026+92.70	LT			15.0			15.0					
		30026+81.79 to 30027+42.08	RT			62.1			62.1					
		30026+92.70 to 30026+95.59	LT			4.4			4.4					
		30026+95.59 to 30028+01.47	LT			57.5			57.5					
		30027+26.08 to 30028+02.46	LT			29.2			29.2					
		30027+42.08 to 30027+63.88	RT			33.4			33.4					
		30027+53.21 to 30027+60.53	RT			13.1			13.1					
		30027+60.53 to 30027+76.70	RT			45.7			45.7					
		30027+63.88 to 30027+80.94	RT			57.9			57.9					
		30027+71.52 to 30028+04.12	RT			64.4			64.4					
		30027+76.70 to 30027+80.94	RT			31.2			31.2					
		30028+01.47 to 30028+05.64	LT			6.1			6.1					
		30028+02.46 to 30028+14.19	LT			11.8			11.8					
		30028+04.12 to 30028+16.96	RT			39.5			39.5					
		30028+05.64 to 30028+16.31	LT			29.8			29.8					
		30028+14.10 to 30028+16.31	LT			7.3			7.3					
		30028+16.96 to 30028+18.61	RT			12.1			12.1					
		30028+18.61 to 30028+37.89	RT			34.3			34.3					
		30028+25.57 to 30028+28.48	LT			32.8			32.8					
		30028+25.57 to 30028+52.74	LT			41.2			41.2					
		30028+37.89 to 30028+54.31	RT			20.3			20.3					
		30028+52.74 to 30029+31.90	LT			89.1			89.1					
		30028+54.31 to 30029+00.54	RT			51.5			51.5					
		30029+00.54 to 30029+52.21	RT			51.7			51.7					
		30029+31.90 to 30029+60.30	LT			28.5			28.5					
		30029+52.21 to 30029+63.51	RT			11.3			11.3					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	30029+74.49 to 30029+80.34	LT		LF	6.1			6.1					
		30029+74.53 to 30029+81.23	RT			6.8			6.8					
		30029+80.34 to 30030+37.58	LT			58.0			58.0					
		30029+81.23 to 30030+11.14	RT			30.0			30.0					
0520 2 2	Concrete Curb, Type B	10021+52.76 to 10021+52.76	LT/RT		LF	11.0			11.0	2149				
		10021+52.76 to 10022+64.57	RT			111.8			111.8					
		10021+52.76 to 10022+64.57	LT			111.8			111.8					
		10022+64.57 to 10022+64.57	LT/RT			11.0			11.0					
		10024+11.38 to 10024+11.38	LT/RT			11.0			11.0					
		10024+11.38 to 10025+99.24	LT			187.9			187.9					
		10024+11.38 to 10025+99.24	RT			187.9			187.9					
		10025+99.24 to 10025+99.24	LT/RT			11.0			11.0					
		10027+46.69 to 10027+47.23	LT			4.4			4.4					
		10027+46.69 to 10027+66.83	LT			21.0			21.0					
		10027+47.23 to 10027+68.12	LT			21.0			21.0					
		10027+66.83 to 10027+87.72	LT			21.0			21.0					
		10027+68.12 to 10027+88.27	LT			21.0			21.0					
		10027+87.72 to 10027+88.27	LT			4.4			4.4					
		20030+68.63 to 20030+68.73	RT			4.6			4.6					
		20030+68.63 to 20031+14.08	LT/RT			45.5			45.5					
		20030+68.73 to 20031+14.28	RT			45.5			45.5					
		20031+14.08 to 20031+14.28	LT/RT			9.6			9.6					
		20032+03.68 to 20032+03.68	LT/RT			11.0			11.0					
		20032+03.68 to 20033+18.98	LT			115.3			115.3					
		20032+03.68 to 20033+18.99	RT			115.3			115.3					
		20033+18.98 to 20033+18.99	LT/RT			11.0			11.0					
		20033+94.01 to 20033+94.01	LT/RT			11.0			11.0					
		20033+94.01 to 20034+94.36	RT			100.4			100.4					
		20033+94.01 to 20034+94.36	LT			100.4			100.4					
		20034+94.36 to 20034+94.36	LT/RT			11.0			11.0					
		20035+82.05 to 20035+82.05	LT/RT			11.0			11.0					
		20035+82.05 to 20037+64.28	RT			182.2			182.2					
		20035+82.05 to 20037+64.28	LT			182.2			182.2					
		20037+64.28 to 20037+64.28	LT/RT			11.0			11.0					
		20039+63.57 to 20039+63.57	LT/RT			11.0			11.0					
		20039+63.57 to 20040+53.84	LT			90.3			90.3					
20039+63.57 to 20040+53.84	RT			90.3			90.3							
20040+53.84 to 20040+53.84	LT/RT			11.0			11.0							
30012+27.85 to 30012+28.87	LT/RT			6.2			6.2							
30012+27.85 to 30013+32.38	RT			100.9			100.9							
30012+28.87 to 30013+46.39	LT			116.4			116.4							
30013+32.33 to 30013+46.30	LT/RT			14.0			14.0							
30013+46.30 to 30013+46.39	LT			6.1			6.1							
0520 2 4	Concrete Curb, Type D	10017+25.56 to 10017+32.66	RT		LF	62.7			62.7	1151				
		10017+25.56 to 10018+76.90	RT			154.0			154.0					
		10017+32.66 to 10018+69.80	RT			137.1			137.1					
		10018+69.80 to 10018+76.90	RT			62.7			62.7					
		20015+45.77 to 20015+50.12	LT			91.2			91.2					
		20015+45.77 to 20015+97.14	LT			58.5			58.5					
		20015+50.12 to 20016+48.91	LT				119.6		119.6					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.					GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
								TYPE	LENGTH	P	F				
0520 2 4	Concrete Curb, Type D (CONT'D)	20015+97.14 to 20016+48.91		LT		LF	91.2			91.2					
		30022+63.62 to 30023+00.37		LT/RT			186.9			186.9					
		30028+11.47 to 30028+11.50		LT/RT			186.9			186.9					
0520 2 8	Concrete Curb, Type RA	10017+22.77 to 10017+32.66		RT		LF	87.3			87.3	1374				
		10017+22.77 to 10018+79.69		RT			159.7			159.7					
		10017+32.66 to 10018+69.80		RT			137.1			137.1					
		10018+69.80 to 10018+79.69		RT			87.3			87.3					
		20015+44.01 to 20015+49.17		LT			108.1			108.1					
		20015+44.01 to 20015+93.19		LT			56.0			56.0					
		20015+49.17 to 20016+54.54		LT			127.6			127.6					
		20015+93.19 to 20016+54.54		LT			108.1			108.1					
		30022+57.29 to 30023+06.70		LT/RT			251.3			251.3					
		30028+11.46 to 30028+11.51		LT/RT			251.3			251.3					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
299

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1	0522 2	0527 2					
					SY	SY	SF					
P	F	P	F	P	F							
10000+38.57 to 10001+34.36	LT	63919			62.2							
10001+52.11 to 10002+61.29	LT	63490			69.5							
10002+01.76 to 10002+27.80	RT	63475			15.4							
10002+79.34 to 10002+92.09	LT	63505			6.1							
10003+05.17 to 10003+77.30	LT	63912			44.8							
10003+90.06 to 10004+43.46	LT	63511			32.3							
10004+55.40 to 10005+21.80	LT	63903			40.9							
10005+34.23 to 10006+26.94	LT	63518			62.0							
10007+02.41 to 10008+11.05	LT	63812			72.0							
10007+27.10 to 10016+38.50	RT	134605			667.4							
10008+29.18 to 10008+50.73	LT	63531			13.5							
10008+66.12 to 10008+82.20	LT	63805			9.8							
10008+96.83 to 10009+56.65	LT	63538			41.6							
10009+67.97 to 10010+10.68	LT	63795			30.2							
10010+26.23 to 10011+53.92	LT	63548			84.2							
10011+72.92 to 10012+64.07	LT	63788			60.0							
10013+67.22 to 10014+10.43	LT	63781			27.9							
10014+25.97 to 10014+45.08	LT	63774			11.8							
10014+60.83 to 10015+23.17	LT	63563			40.7							
10015+37.15 to 10015+68.82	LT	63555			20.2							
10015+88.76 to 10016+65.19	LT/RT	63570			81.2							
10016+50.14 to 10018+04.09	RT	115046			208.5							
10016+82.61 to 10017+83.14	RT	115038			110.7							
10017+82.88 to 10017+99.91	RT	115059			14.9							
10018+21.65 to 10018+38.37	RT	63735			46.5							
10018+48.95 to 10019+12.35	RT	115064			69.2							
10018+51.10 to 10018+74.30	RT	115092			60.2							
10018+72.34 to 10019+58.32	RT	115078			140.0							
10018+81.51 to 10018+95.63	RT	115087			12.9							
10019+25.12 to 10019+48.36	LT	115073			23.6							
10019+67.22 to 10021+03.53	RT	115101			102.9							
10019+72.14 to 10019+89.59	RT	115118			7.1							
10020+01.15 to 10020+21.54	LT	63713			7.1							
10020+21.02 to 10022+78.96	LT	63689			286.6							
10021+19.29 to 10022+85.69	RT	95955			107.4							
10023+01.37 to 10026+07.74	RT	115125			201.5							
10024+18.71 to 10026+73.05	LT	134488			286.5							
10027+15.62 to 10029+74.75	LT	134539			725.2							
20003+25.08 to 20004+29.40	RT	114910			77.0							
20003+34.47 to 20003+40.47	RT	114922			1.3							
20004+60.01 to 20005+39.92	RT	63463			52.3							
20005+30.10 to 20005+45.10	LT	63937			8.0							
20005+65.30 to 20005+80.30	LT	63456			8.1							
20005+70.11 to 20006+09.76	RT	63932			26.6							
20006+69.35 to 20006+90.08	RT	63449			13.1							
20009+00.00 to 20014+55.12	LT	134684			345.2							
20010+64.98 to 20011+64.70	RT	114812			56.6							
SUB-TOTAL:					4492.7							
TOTAL:					11415		5104		2397			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1	0522 2	0527 2					
					SY	SY	SF					
P	F	P	F	P	F							
20011+64.11 to 20011+66.70	RT	114807			1.1							
20011+92.66 to 20014+55.81	LT/RT	134719			170.8							
20014+48.96 to 20014+67.82	LT	63444			17.8							
20014+65.33 to 20014+86.45	LT	63978			64.2							
20014+67.56 to 20014+81.84	LT	63432			12.7							
20014+99.07 to 20016+03.90	LT/RT	64010			122.2							
20015+22.42 to 20015+35.81	LT	63439			9.9							
20015+23.16 to 20017+09.60	LT	63987			254.0							
20016+39.84 to 20016+76.24	RT	63425			32.3							
20017+01.79 to 20017+15.52	RT	64023			10.0							
20017+21.03 to 20018+90.84	LT	63392			195.9							
20017+26.55 to 20017+77.57	RT	63412			36.6							
20017+49.52 to 20017+63.63	RT	91067			4.7							
20017+88.53 to 20018+01.54	RT	64039			7.0							
20019+04.00 to 20019+79.90	LT	64029			84.3							
20019+50.31 to 20019+92.33	RT	63368			28.0							
20019+92.63 to 20020+56.37	LT	63381			70.9							
20020+72.65 to 20022+16.11	LT	64034			159.3							
20020+87.78 to 20021+15.41	RT	64045			16.7							
20021+34.80 to 20021+71.51	RT	63362			20.2							
20021+89.32 to 20022+11.51	RT	64051			10.8							
20022+23.55 to 20022+53.40	RT	64057			15.7							
20022+30.66 to 20022+35.57	LT	63376			5.4							
20023+26.78 to 20024+13.53	LT	63357			96.4							
20023+53.93 to 20023+72.63	RT	63338			9.1							
20023+81.30 to 20024+13.34	RT	64071			21.8							
20024+30.12 to 20024+70.34	RT	63346			21.4							
20025+09.49 to 20026+68.78	LT	64066			177.0							
20025+15.49 to 20025+41.21	RT	64078			13.2							
20025+57.08 to 20026+36.01	RT	63327			48.9							
20026+51.66 to 20027+36.13	RT	64087			52.9							
20026+83.09 to 20027+30.47	LT	63322			52.6							
20027+45.13 to 20027+85.64	LT	64096			46.3							
20027+52.11 to 20028+63.93	RT	64103			61.3							
20027+98.98 to 20029+00.35	LT	63309			116.7							
20028+81.68 to 20029+31.10	RT	63300			26.8							
20029+83.99 to 20033+15.53	LT	114828			370.3							
20033+27.33 to 20033+48.28	RT	64134			12.3							
20033+59.91 to 20033+78.38	RT	63293			10.6							
20033+95.87 to 20039+26.54	LT	114843			652.4							
20033+99.71 to 20034+60.42	RT	64179			40.5							
20034+89.75 to 20035+15.24	RT	63285			15.2							
20035+26.29 to 20035+31.81	RT	64141			2.5							
20035+47.67 to 20035+81.39	RT	63277			20.9							
20037+43.02 to 20037+93.16	RT	64146			31.9							
20038+04.86 to 20038+74.03	RT	63268			42.8							
20038+84.03 to 20041+94.73	RT	64151			200.9							
20039+38.07 to 20041+54.92	LT	63251			242.4							
SUB-TOTAL:					3737.6							

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
301

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1	0522 2	0527 2					
					SY	SY	SF					
P	F	P	F	P	F							
20041+68.61 to 20041+91.23	LT	64171			26.0							
30004+46.20 to 30004+55.76	RT	114860			5.5							
30004+73.80 to 30004+84.27	RT	114866			14.2							
30005+17.32 to 30005+24.05	RT	123027			7.9							
30005+56.47 to 30007+24.72	RT	64203			187.1							
30005+58.30 to 30005+64.81	LT	63244			5.8							
30007+35.98 to 30008+03.22	RT	63218			74.8							
30008+00.16 to 30009+21.26	LT	63226			67.8							
30008+59.15 to 30008+92.16	RT	64217			36.3							
30009+01.58 to 30011+38.01	RT	63205			264.8							
30010+09.89 to 30010+50.44	LT	64212			22.5							
30011+92.08 to 30012+77.23	RT	63192			80.0							
30012+47.55 to 30013+90.51	LT	64226			79.3							
30015+39.86 to 30016+80.00	RT	63187			77.8							
30016+46.24 to 30016+63.25	LT	64233			9.2							
30016+77.32 to 30017+25.74	LT	63180			26.2							
30017+38.25 to 30017+89.00	LT	64238			27.6							
30017+80.02 to 30018+39.99	RT	63175			33.3							
30018+04.92 to 30018+37.06	LT	64245			17.5							
30018+52.96 to 30018+79.52	LT	63169			14.4							
30019+40.09 to 30020+00.06	RT	64252			33.3							
30020+38.64 to 30021+74.14	RT	63158			101.6							
30020+88.60 to 30021+78.18	LT	64268			74.5							
30021+92.48 to 30023+72.58	RT	64257			218.3							
30021+98.10 to 30022+33.89	LT	63151			49.0							
30022+81.43 to 30023+67.60	LT	64282			109.3							
30023+73.44 to 30023+90.41	LT	114881			40.1							
30023+78.27 to 30023+93.29	RT	114886			19.8							
30023+87.42 to 30024+51.79	LT	63144			71.0							
30023+90.54 to 30025+97.75	RT	114891			229.4							
30024+57.23 to 30024+63.81	LT	64395			17.9							
30025+24.15 to 30026+34.90	LT	63137			121.7							
30026+69.96 to 30027+04.86	RT	114898			39.8							
30026+95.34 to 30027+86.91	LT	63130			46.9							
30027+25.94 to 30027+75.40	RT	63121			93.6							
30027+51.20 to 30027+52.23	RT	124288			22.2							
30028+24.55 to 30028+91.82	RT	64316			85.6							
30028+34.51 to 30028+99.72	LT	64309			95.1							
30029+05.58 to 30029+23.45	LT	64400			33.9							
30029+13.28 to 30030+10.30	RT	64343			86.5							
30029+18.55 to 30030+51.61	LT	64328			103.0							
30032+82.69 to 30032+95.69	RT	64405			7.1							
30033+07.52 to 30033+50.66	RT	63061			23.9							
30034+23.28 to 30035+23.49	RT	63054			55.6							
30036+51.70 to 30037+01.77	LT	63116			27.8							
30041+97.44 to 30042+32.98	RT	64356			19.5							
30042+48.28 to 30042+78.23	RT	63111			16.3							
30043+53.21 to 30044+32.15	RT	63091			41.1							
SUB-TOTAL:					2961.8							

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
302

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
30043+59.02 to 30043+79.71	LT	64362			38.2							
30047+01.27 to 30047+49.88	RT	64379			26.9							
30047+74.61 to 30048+09.47	RT	63085			19.3							
30054+00.23 to 30055+52.97	LT	64411			85.0							
30054+53.23 to 30055+50.72	RT	63048			53.4							
10000+12.32 to 10000+36.41	RT	115842					22.5					
10000+12.98 to 10000+20.73	RT	115868					2.4					
10000+14.24 to 10000+24.87	RT	65225					29.3					
10000+15.29 to 10000+21.34	RT	115858					1.8					
10000+16.75 to 10000+38.57	LT	65858					18.5					
10000+17.11 to 10000+24.45	RT	115863					3.3					
10000+19.78 to 10000+24.70	RT	115854					2.4					
10001+24.36 to 10001+62.11	LT	65474					32.6					
10002+51.29 to 10003+15.17	LT	65238					53.9					
10003+67.30 to 10004+00.06	LT	65463					22.9					
10004+33.46 to 10004+65.40	LT	65260					21.8					
10005+11.80 to 10005+44.23	LT	65451					23.4					
10006+26.94 to 10006+48.69	LT	65847					12.2					
10006+79.40 to 10007+02.41	LT	65836					13.0					
10008+01.05 to 10008+39.18	LT	65293					44.4					
10008+40.73 to 10009+06.83	LT	65272					75.6					
10009+46.65 to 10009+77.97	LT	65305					30.7					
10010+00.68 to 10010+36.23	LT	65439					39.3					
10011+43.92 to 10011+82.92	LT	65316					46.4					
10012+64.07 to 10012+98.93	LT	65820					23.6					
10013+31.21 to 10013+77.22	LT	65801					49.2					
10014+00.43 to 10014+70.83	LT	65328					79.4					
10015+13.17 to 10015+47.15	LT	65427					36.5					
10015+58.82 to 10015+98.76	LT	65349					48.6					
10016+34.13 to 10016+43.88	RT	115836					6.5					
10016+39.28 to 10016+53.57	RT	115824					12.5					
10016+39.34 to 10016+54.00	RT	122662					10.9					
10016+45.10 to 10016+54.78	RT	115819					2.2					
10016+46.33 to 10016+56.96	RT	115831					6.1					
10016+46.65 to 10016+57.08	RT	120342					0.7					
10016+46.96 to 10016+54.59	RT	120314					1.2					
10016+47.85 to 10016+63.44	RT	120319					12.7					
10016+52.72 to 10016+64.12	RT	122654					10.8					
10016+53.70 to 10016+64.62	RT	120337					0.7					
10016+56.28 to 10016+66.33	RT	115814					2.2					
10016+56.29 to 10016+64.32	RT	120324					1.3					
10016+56.78 to 10016+71.29	RT	122670					12.0					
10016+57.50 to 10016+68.22	RT	115806					3.9					
10016+59.34 to 10016+68.92	RT	115799					2.2					
10016+59.94 to 10016+70.77	RT	120301					0.7					
10016+60.11 to 10016+64.84	RT	120271					1.2					
10016+61.00 to 10016+73.99	RT	120276					12.6					
10016+61.71 to 10016+70.59	LT/RT	115787					6.7					
SUB-TOTAL:					222.8		840.8					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
303

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
10016+63.94 to 10016+75.11	RT	120294					0.7					
10016+65.71 to 10016+75.55	RT	115792					2.2					
10016+66.41 to 10016+79.59	LT/RT	115778					13.3					
10016+69.87 to 10016+74.93	RT	120283					1.3					
10016+70.60 to 10016+82.80	RT	122646					12.1					
10016+76.12 to 10016+85.20	RT	115773					7.2					
10017+83.14 to 10017+89.14	RT	115674					6.7					
10017+89.14 to 10017+91.14	RT	115679					2.2					
10017+91.14 to 10017+92.81	RT	115685					2.6					
10017+93.11 to 10018+13.81	RT	121224					2.2					
10017+93.21 to 10018+11.61	RT	121215					2.0					
10017+94.08 to 10018+05.28	RT	115763					6.7					
10017+95.41 to 10018+08.61	RT	115768					7.2					
10017+99.45 to 10018+16.04	RT	115758					13.5					
10018+08.43 to 10018+27.02	RT	122719					14.1					
10018+10.43 to 10018+17.84	RT	115753					2.2					
10018+10.62 to 10018+21.46	RT	115649					4.5					
10018+11.38 to 10018+20.70	RT	115638					7.6					
10018+13.65 to 10018+18.45	RT	115583					0.9					
10018+13.77 to 10018+20.32	RT	120221					0.6					
10018+14.22 to 10018+26.97	RT	120191					1.5					
10018+14.83 to 10018+30.59	RT	120197					12.7					
10018+18.28 to 10018+38.98	RT	121202					2.2					
10018+19.83 to 10018+30.99	RT	120202					1.3					
10018+19.88 to 10018+34.66	RT	122728					11.2					
10018+20.47 to 10018+38.88	RT	121207					2.0					
10018+21.65 to 10018+41.45	RT	64851					22.9					
10018+26.57 to 10018+31.44	RT	120214					0.6					
10018+29.23 to 10018+35.05	RT	115748					2.2					
10018+31.03 to 10018+45.81	RT	115741					13.6					
10018+39.28 to 10018+40.95	RT	115670					2.6					
10018+40.95 to 10018+42.95	RT	115664					2.2					
10018+42.95 to 10018+48.95	RT	115659					6.7					
10018+43.08 to 10018+47.72	RT	115736					2.2					
10018+45.21 to 10018+60.69	RT	64863					22.9					
10018+45.53 to 10018+60.22	RT	122712					12.2					
10018+46.93 to 10018+50.67	RT	120251					0.7					
10018+47.41 to 10018+60.02	RT	120241					1.4					
10018+47.63 to 10018+63.33	RT	120231					14.8					
10018+50.19 to 10018+67.61	RT	122705					13.3					
10018+50.34 to 10018+63.71	RT	120246					1.5					
10018+59.74 to 10018+64.19	RT	120258					0.7					
10018+62.41 to 10018+67.64	RT	115711					2.2					
10018+64.32 to 10018+79.15	RT	115716					13.4					
10018+64.57 to 10018+75.78	RT	115731					7.1					
10018+69.55 to 10018+81.69	RT	115721					7.1					
10018+75.78 to 10018+84.91	RT	115726					6.7					
10019+07.49 to 10019+17.45	LT/RT	115551					6.1					
SUB-TOTAL:							303.8					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
304

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
10019+10.81 to 10019+26.78	RT	122683					14.4					
10019+11.78 to 10019+24.26	LT/RT	115532					8.9					
10019+16.31 to 10019+25.39	LT/RT	115541					2.2					
10019+17.75 to 10019+27.61	RT	120116					0.7					
10019+18.03 to 10019+27.28	RT	120136					1.7					
10019+18.86 to 10019+34.89	RT	120128					16.1					
10019+19.72 to 10019+30.30	LT/RT	115526					7.0					
10019+26.81 to 10019+35.67	RT	120123					1.6					
10019+27.33 to 10019+42.40	LT/RT	122676					13.4					
10019+28.85 to 10019+37.60	RT	115557					2.2					
10019+29.98 to 10019+40.30	RT	115566					5.3					
10019+31.62 to 10019+49.35	RT	122697					15.5					
10019+33.72 to 10019+41.80	RT	115576					2.2					
10019+36.59 to 10019+44.21	RT	120156					0.6					
10019+36.96 to 10019+49.55	RT	120169					1.8					
10019+37.59 to 10019+55.27	RT	120163					15.9					
10019+43.50 to 10019+55.96	RT	120151					1.7					
10019+43.84 to 10019+62.29	RT	122690					14.8					
10019+44.43 to 10019+59.84	LT	65740					22.9					
10019+48.97 to 10019+56.33	RT	120180					0.6					
10019+50.26 to 10019+61.69	RT	115705					7.3					
10019+51.14 to 10019+58.98	RT	115694					2.2					
10019+52.65 to 10019+67.95	RT	115699					13.4					
10019+60.47 to 10019+72.82	RT	115689					8.7					
10019+86.85 to 10020+21.02	LT	115506					1.9					
10019+87.80 to 10020+00.12	LT	115520					3.1					
10019+90.09 to 10020+15.02	LT	115515					23.4					
10020+15.02 to 10020+21.02	LT	115501					6.7					
10020+93.46 to 10021+29.27	RT	96061					23.7					
10022+75.69 to 10023+11.37	RT	96048					25.2					
10022+78.96 to 10022+84.96	LT	115487					6.7					
10022+78.96 to 10023+08.70	LT	115492					1.7					
10022+84.96 to 10023+04.97	LT	115482					16.2					
10022+91.43 to 10023+07.51	LT	115475					3.6					
10023+38.38 to 10023+42.44	LT	115457					2.4					
10023+40.98 to 10023+52.09	LT	115450					8.8					
10023+47.03 to 10023+54.17	LT	115467					2.6					
10023+88.20 to 10024+18.71	LT	115432					1.7					
10023+89.44 to 10024+05.66	LT	115442					3.6					
10023+92.08 to 10024+12.71	LT	115426					16.8					
10024+12.71 to 10024+18.71	LT	115421					6.7					
10026+07.74 to 10026+12.74	RT	115389					1.5					
10026+07.74 to 10026+16.82	RT	115394					11.8					
10026+16.51 to 10026+18.82	RT	115404					1.1					
10026+47.70 to 10026+52.40	RT	115416					1.2					
10026+49.85 to 10026+55.03	RT	115411					2.1					
10026+53.42 to 10026+70.94	LT	123384					4.4					
10026+72.10 to 10027+18.15	LT	134528					77.2					
SUB-TOTAL:							435.2					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
305

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
10027+46.89 to 10027+88.06	LT	69216					16.4					
10029+30.55 to 10029+78.17	LT	123333					53.9					
10029+54.80 to 10029+60.03	LT	123375					2.6					
10029+57.34 to 10029+63.77	LT	123379					3.2					
10029+61.91 to 10029+68.04	LT	123371					1.6					
10029+67.04 to 10030+00.18	RT	115312					48.8					
10029+68.19 to 10029+77.28	LT	123362					2.9					
10029+68.19 to 10029+78.17	LT	123358					2.4					
10029+68.67 to 10029+76.11	LT	123367					1.9					
10029+73.80 to 10029+80.89	RT	115369					2.7					
10029+79.25 to 10029+83.77	RT	115364					1.1					
10029+79.70 to 10029+84.41	RT	115359					2.2					
10029+83.30 to 10029+88.09	RT	115354					1.6					
10029+93.54 to 10029+97.91	RT	115344					2.0					
10029+93.54 to 10029+98.77	RT	115349					1.9					
10029+93.64 to 10030+00.18	RT	115335					2.4					
10029+96.93 to 10029+99.67	RT	115339					0.9					
20014+40.19 to 20014+93.73	LT/RT	65205					103.3					
20014+49.18 to 20014+60.07	LT	115915					6.7					
20014+54.14 to 20014+69.15	LT	115920					12.8					
20014+56.61 to 20014+72.33	LT	122582					11.5					
20014+61.05 to 20014+72.10	LT	115927					6.7					
20014+61.42 to 20014+70.50	LT	115932					2.2					
20014+62.37 to 20014+72.85	LT	115937					6.7					
20014+63.33 to 20014+72.93	LT	120357					0.7					
20014+63.67 to 20014+72.87	LT	120352					1.4					
20014+64.48 to 20014+81.35	LT	120362					14.4					
20014+67.40 to 20014+82.91	LT	115942					13.0					
20014+70.71 to 20014+81.23	LT	122605					11.2					
20014+71.98 to 20014+82.52	LT	120378					0.7					
20014+72.19 to 20014+82.18	LT	120368					1.5					
20014+72.59 to 20014+89.22	LT	122591					13.7					
20014+72.85 to 20014+84.24	LT	115953					6.1					
20014+74.09 to 20014+89.37	LT	122614					10.6					
20014+74.76 to 20014+84.59	LT	115873					2.3					
20014+76.14 to 20014+87.04	LT	115880					5.0					
20014+76.77 to 20014+84.59	LT	115948					2.2					
20014+77.77 to 20014+87.55	LT	115888					2.3					
20014+77.96 to 20014+89.18	LT	120413					0.7					
20014+78.09 to 20014+82.04	LT	120392					1.3					
20014+78.18 to 20014+87.34	LT	115893					6.7					
20014+79.00 to 20014+91.57	LT	120398					14.0					
20014+79.48 to 20014+87.22	LT	120441					0.7					
20014+79.91 to 20014+89.59	LT	120431					1.2					
20014+80.59 to 20014+96.03	LT	120436					12.0					
20014+81.10 to 20014+92.67	LT	120420					0.7					
20014+82.67 to 20014+92.71	LT	115910					2.2					
20014+83.18 to 20014+95.73	LT	115898					12.7					
SUB-TOTAL:							435.7					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
306

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
20014+86.68 to 20014+96.68	LT	120448					1.3					
20014+86.80 to 20015+02.12	LT	122622					11.5					
20014+88.24 to 20014+92.54	LT	120403					1.5					
20014+88.95 to 20014+97.08	LT	120463					0.6					
20014+89.06 to 20015+00.52	LT	122598					13.2					
20014+91.91 to 20015+00.04	LT	115970					2.2					
20014+93.21 to 20015+01.60	LT	115905					6.7					
20014+93.46 to 20015+06.97	LT	122638					10.8					
20014+93.60 to 20015+02.72	LT	115963					3.9					
20014+96.28 to 20015+04.11	LT	115958					2.2					
20014+98.62 to 20015+06.67	LT	120501					0.7					
20014+98.96 to 20015+07.26	LT	120483					1.2					
20014+99.59 to 20015+14.05	LT	120495					12.5					
20015+06.03 to 20015+14.79	LT	120506					1.3					
20015+06.32 to 20015+21.41	LT	122631					12.0					
20015+06.62 to 20015+15.14	LT	120488					0.7					
20015+09.00 to 20015+17.17	LT	115975					2.2					
20015+10.40 to 20015+25.48	LT	115982					13.1					
20015+18.27 to 20015+29.64	LT	115989					6.7					
20015+18.56 to 20015+30.14	LT	115994					6.7					
20015+94.70 to 20016+09.40	RT	64779					24.5					
20016+19.71 to 20016+26.07	RT	69378					2.1					
20016+33.49 to 20016+46.70	RT	64768					18.4					
20016+75.78 to 20016+82.56	RT	116041					5.5					
20016+76.87 to 20016+86.43	LT/RT	122570					12.3					
20016+81.76 to 20016+97.56	RT	116046					10.9					
20016+84.84 to 20016+96.77	RT	120528					0.7					
20016+84.90 to 20016+87.34	LT/RT	120523					1.3					
20016+85.35 to 20016+95.62	RT	116056					2.2					
20016+85.90 to 20016+97.08	LT/RT	120533					12.5					
20016+86.37 to 20016+98.11	LT	120551					0.7					
20016+87.53 to 20017+03.31	LT	122557					13.7					
20016+87.68 to 20016+97.66	LT	116021					2.2					
20016+87.92 to 20017+00.24	LT	116028					8.3					
20016+91.89 to 20017+01.51	LT	116036					2.2					
20016+93.76 to 20017+04.12	LT	120592					0.7					
20016+94.08 to 20017+03.77	LT	120563					1.6					
20016+94.88 to 20017+11.83	LT	120568					15.4					
20016+95.78 to 20016+98.05	LT/RT	120539					1.2					
20016+95.94 to 20017+03.74	RT	116061					5.5					
20016+96.71 to 20017+05.85	LT/RT	122577					9.9					
20017+02.99 to 20017+12.98	LT	120585					0.7					
20017+03.25 to 20017+12.66	LT	120573					1.5					
20017+03.30 to 20017+14.14	LT	115999					6.7					
20017+03.80 to 20017+19.89	LT	122564					12.8					
20017+05.34 to 20017+14.67	LT	116016					2.2					
20017+05.52 to 20017+36.55	RT	65485					17.5					
20017+06.60 to 20017+21.45	LT	116009					12.8					
SUB-TOTAL:							317.0					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
307

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
20017+15.93 to 20017+26.56	LT	116004					6.7					
20017+67.57 to 20017+98.53	RT	65193					13.5					
20018+80.84 to 20019+14.00	LT	65495					31.2					
20019+69.90 to 20020+02.63	LT	65182					30.4					
20020+46.37 to 20020+82.65	LT	65507					39.2					
20021+05.41 to 20021+44.80	RT	65171					22.8					
20022+01.51 to 20022+33.55	RT	65160					15.8					
20022+05.95 to 20022+40.62	LT	65518					36.0					
20022+52.66 to 20022+52.66	LT	108803					41.0					
20022+97.67 to 20023+26.78	LT	65954					28.4					
20023+62.63 to 20023+91.30	RT	65529					11.2					
20024+03.34 to 20024+40.12	RT	65148					20.6					
20024+13.53 to 20024+41.27	LT	65966					27.5					
20024+82.70 to 20025+09.51	LT	116066					1.5					
20024+83.58 to 20024+93.81	LT	116083					2.8					
20024+85.81 to 20025+03.51	LT	116073					16.2					
20025+03.51 to 20025+09.51	LT	116078					6.7					
20025+31.21 to 20025+67.08	RT	65540					19.7					
20026+26.00 to 20026+61.66	RT	65137					17.7					
20026+58.78 to 20026+93.09	LT	65550					34.9					
20027+20.47 to 20027+55.13	LT	65126					36.2					
20027+26.13 to 20027+62.11	RT	65561					18.3					
20027+75.64 to 20028+08.98	LT	65115					33.0					
20028+53.93 to 20028+91.68	RT	65099					43.5					
20028+99.99 to 20029+28.87	LT	65990					29.5					
20029+57.67 to 20029+83.99	LT	66004					26.5					
20033+15.52 to 20033+21.53	LT	116090					6.7					
20033+15.53 to 20033+40.92	LT	116109					1.4					
20033+21.52 to 20033+37.82	LT	116098					14.7					
20033+29.94 to 20033+40.05	LT	116103					2.8					
20033+38.28 to 20033+69.92	RT	65574					20.4					
20033+73.59 to 20033+95.88	LT	116125					1.3					
20033+74.47 to 20033+84.85	LT	116142					2.8					
20033+76.70 to 20033+89.88	LT	116135					11.1					
20033+89.87 to 20033+95.88	LT	116120					6.7					
20034+24.96 to 20036+90.01	LT	71932					58.9					
20035+05.24 to 20035+57.67	RT	65587					50.0					
20037+83.16 to 20038+14.86	RT	65604					20.8					
20038+64.03 to 20038+94.03	RT	65086					18.2					
20039+16.54 to 20039+48.07	LT	65614					23.6					
20041+44.90 to 20041+78.60	LT	65627					29.7					
20041+91.23 to 20042+15.04	LT	116162					25.0					
20041+91.23 to 20042+28.91	LT	116148					3.3					
20041+94.30 to 20042+15.56	RT	123447					18.3					
20041+94.73 to 20042+31.37	RT	123436					2.8					
20042+12.27 to 20042+22.98	LT	116157					7.3					
20042+12.42 to 20042+24.24	RT	123454					9.3					
20042+14.48 to 20042+24.08	LT	116170					2.2					
SUB-TOTAL:							948.1					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
308

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
20042+18.39 to 20042+31.08	RT	123460					9.5					
20042+18.57 to 20042+28.76	LT	116175					5.7					
20042+21.83 to 20042+31.47	LT	116181					3.8					
20042+23.28 to 20042+34.02	RT	123465					6.0					
20042+23.72 to 20042+34.82	LT	116186					4.5					
20042+24.99 to 20042+36.11	LT	116192					6.9					
20042+27.49 to 20042+36.72	RT	123470					5.9					
20042+27.83 to 20042+38.99	LT	116202					16.9					
20042+31.18 to 20042+36.93	RT	123476					2.8					
20042+32.87 to 20042+38.16	LT	116197					2.1					
20042+72.95 to 20042+84.08	LT	123387					14.9					
20042+73.73 to 20042+87.10	LT	123407					9.5					
20042+77.47 to 20042+88.60	LT	123412					4.8					
20042+81.05 to 20042+93.85	LT	123417					9.4					
20042+82.95 to 20043+14.24	LT	123394					2.9					
20042+87.49 to 20042+92.71	RT	116307					2.4					
20042+88.61 to 20042+99.94	LT	123423					10.1					
20042+89.52 to 20042+99.79	RT	116312					7.2					
20042+90.95 to 20043+01.75	RT	116302					5.4					
20042+94.22 to 20043+03.92	RT	116296					4.1					
20042+96.88 to 20043+07.14	RT	116291					5.7					
20042+97.66 to 20043+16.14	RT	116274					1.5					
20042+99.93 to 20043+09.93	LT	123428					8.0					
20043+01.50 to 20043+11.07	RT	116286					2.2					
20043+02.63 to 20043+13.40	RT	116281					7.3					
20043+10.48 to 20043+16.15	RT	116267					4.8					
30007+14.72 to 30007+45.98	RT	65071					37.9					
30008+03.22 to 30008+22.39	RT	66091					21.8					
30008+43.00 to 30008+60.45	RT	66078					19.1					
30008+82.16 to 30009+11.58	RT	65638					31.7					
30011+37.31 to 30011+50.83	RT	66103					14.8					
30011+70.98 to 30011+92.08	RT	66116					23.2					
30013+90.45 to 30014+07.07	LT	64729					9.0					
30016+53.25 to 30016+87.32	LT	65059					24.0					
30017+15.74 to 30017+48.25	LT	65650					23.1					
30017+79.00 to 30018+14.92	LT	65048					28.0					
30018+27.08 to 30018+63.02	LT	65662					27.6					
30021+71.09 to 30021+80.12	RT	116683					6.7					
30021+72.95 to 30021+85.63	RT	122787					13.8					
30021+76.28 to 30021+86.57	LT/RT	122768					10.8					
30021+76.42 to 30021+84.18	LT	116397					6.5					
30021+77.10 to 30021+91.02	RT	116671					15.6					
30021+80.94 to 30021+92.72	RT	120614					0.7					
30021+81.10 to 30021+86.47	RT	120604					1.6					
30021+82.08 to 30021+96.25	RT	120609					16.4					
30021+82.33 to 30021+94.44	LT	116389					13.3					
30021+84.29 to 30021+96.25	LT	120648					0.7					
30021+84.39 to 30021+87.49	LT/RT	120653					1.3					
SUB-TOTAL:							511.9					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
309

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
30021+84.55 to 30021+94.62	LT	116402					2.2					
30021+85.20 to 30022+25.98	LT	65674					89.5					
30021+85.38 to 30021+97.54	LT/RT	120641					13.1					
30021+85.48 to 30021+97.36	RT	120631					0.7					
30021+86.48 to 30021+98.63	RT	120670					0.7					
30021+86.82 to 30021+95.48	RT	116678					6.7					
30021+87.30 to 30021+98.82	RT	116660					9.3					
30021+91.77 to 30021+97.21	RT	120619					1.7					
30021+92.22 to 30021+99.95	LT	116384					6.7					
30021+92.57 to 30022+04.94	RT	122781					14.3					
30021+95.27 to 30021+98.54	LT/RT	120658					1.4					
30021+96.16 to 30022+06.66	LT/RT	122774					12.4					
30022+20.29 to 30022+36.85	LT	116693					15.6					
30022+23.30 to 30022+33.89	LT	116688					6.7					
30022+32.88 to 30022+47.11	LT	122758					10.7					
30022+35.48 to 30022+39.51	LT	120778					0.7					
30022+35.97 to 30022+46.93	LT	120747					1.2					
30022+36.27 to 30022+49.97	LT	120752					12.2					
30022+39.02 to 30022+53.07	LT	122749					11.3					
30022+39.27 to 30022+50.28	LT	120758					1.2					
30022+46.63 to 30022+50.74	LT	120771					0.6					
30022+49.59 to 30022+59.78	LT	116701					8.4					
30022+56.05 to 30022+69.53	LT	122733					10.7					
30022+58.49 to 30022+62.63	LT	120723					0.7					
30022+58.95 to 30022+69.38	LT	120686					1.2					
30022+59.26 to 30022+72.78	LT	120691					12.4					
30022+62.16 to 30022+77.45	LT	122741					11.7					
30022+62.31 to 30022+73.19	LT	120717					1.3					
30022+69.07 to 30022+73.65	LT	120697					0.7					
30022+71.68 to 30022+87.87	LT	116708					15.6					
30022+78.72 to 30022+90.63	LT	116717					6.7					
30023+58.49 to 30023+69.30	LT/RT	122794					13.5					
30023+59.62 to 30023+72.39	RT	122814					14.7					
30023+65.62 to 30023+73.44	LT	116722					6.7					
30023+65.65 to 30023+77.41	RT	116739					12.3					
30023+66.34 to 30023+78.46	RT	120822					0.7					
30023+66.44 to 30023+70.18	LT/RT	120812					1.5					
30023+67.40 to 30023+79.22	RT	120856					0.7					
30023+67.43 to 30023+80.08	LT/RT	120802					15.1					
30023+67.56 to 30023+73.19	RT	120832					1.7					
30023+68.53 to 30023+82.76	RT	120837					16.5					
30023+69.20 to 30023+81.18	LT	120807					0.7					
30023+69.49 to 30023+78.27	RT	116758					6.7					
30023+70.67 to 30023+83.36	LT	116727					15.6					
30023+72.24 to 30023+83.87	RT	120868					0.7					
30023+73.96 to 30023+87.84	RT	116751					15.6					
30023+77.45 to 30023+81.08	LT/RT	120797					1.5					
30023+78.26 to 30023+83.72	RT	120842					1.6					
SUB-TOTAL:							414.1					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
310

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
30023+78.36 to 30023+89.26	LT/RT	122799					12.5					
30023+79.06 to 30023+91.60	RT	122805					13.7					
30023+81.37 to 30023+89.42	LT	116734					6.7					
30023+84.76 to 30023+93.63	RT	116746					6.7					
30024+47.71 to 30024+54.05	LT	116764					6.7					
30024+48.03 to 30024+57.80	LT	116786					0.5					
30024+53.73 to 30024+75.05	LT	116769					20.1					
30024+63.80 to 30024+76.01	LT	116779					0.7					
30025+02.36 to 30025+27.12	LT	116791					1.4					
30025+03.27 to 30025+21.11	LT	116804					16.1					
30025+20.64 to 30025+27.10	LT	116799					6.7					
30025+97.12 to 30026+03.78	RT	116827					6.7					
30025+97.75 to 30026+26.09	RT	116811					1.6					
30026+03.15 to 30026+25.10	RT	116821					20.2					
30026+31.40 to 30026+55.59	LT	64606					21.8					
30026+50.18 to 30026+72.93	RT	116845					1.4					
30026+50.76 to 30026+67.05	RT	116839					15.4					
30026+64.23 to 30026+72.79	RT	116834					6.8					
30026+69.82 to 30027+03.51	LT	64590					38.2					
30026+84.42 to 30027+01.55	LT	120874					15.3					
30026+91.18 to 30027+01.27	LT	120901					0.7					
30026+91.48 to 30027+02.09	LT	120879					1.8					
30026+92.32 to 30027+10.54	LT	120884					18.4					
30026+99.66 to 30027+08.56	LT/RT	120924					12.2					
30027+00.47 to 30027+11.38	LT	120889					1.9					
30027+00.97 to 30027+18.44	LT	120894					16.2					
30027+01.25 to 30027+11.68	LT	120911					0.7					
30027+03.74 to 30027+18.20	LT	116870					17.8					
30027+04.09 to 30027+10.77	RT	116865					6.7					
30027+07.50 to 30027+19.40	LT	120949					0.7					
30027+07.54 to 30027+09.51	LT/RT	120929					1.4					
30027+08.52 to 30027+20.48	RT	120954					0.7					
30027+08.53 to 30027+19.45	LT/RT	120934					14.9					
30027+09.70 to 30027+20.70	RT	116858					15.6					
30027+17.72 to 30028+06.48	LT	64540					25.0					
30027+18.41 to 30027+20.44	LT/RT	120939					1.5					
30027+19.36 to 30027+28.49	LT/RT	120944					13.4					
30027+19.94 to 30027+26.69	RT	116853					6.7					
30027+64.39 to 30027+79.50	RT	116898					15.6					
30027+65.35 to 30027+75.51	RT	116906					6.7					
30027+79.26 to 30027+94.53	RT	120959					11.3					
30027+80.35 to 30027+82.03	RT	121001					0.7					
30027+80.85 to 30027+92.05	RT	120972					1.2					
30027+80.99 to 30027+93.42	RT	120977					12.4					
30027+81.18 to 30027+95.17	RT	121016					11.7					
30027+82.00 to 30027+93.55	RT	121011					1.3					
30027+91.92 to 30027+94.06	RT	120983					0.7					
30027+94.82 to 30028+03.67	RT	116890					8.4					
SUB-TOTAL:							445.5					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
311

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
30028+00.55 to 30028+24.81	RT	65685					34.6					
30028+00.61 to 30028+16.17	RT	121046					10.9					
30028+04.34 to 30028+06.53	RT	121072					0.7					
30028+04.83 to 30028+15.86	RT	121041					1.2					
30028+05.00 to 30028+17.29	RT	121034					12.2					
30028+06.03 to 30028+19.13	RT	121023					10.7					
30028+06.39 to 30028+17.43	RT	121029					1.2					
30028+15.68 to 30028+17.92	RT	121055					0.7					
30028+18.34 to 30028+33.64	RT	116882					15.6					
30028+23.00 to 30028+43.87	LT	66269					25.8					
30028+23.73 to 30028+34.46	RT	116877					6.8					
30028+87.19 to 30028+95.92	LT/RT	121112					11.2					
30028+88.41 to 30029+00.20	LT	121105					13.8					
30028+91.29 to 30028+97.79	RT	116992					6.0					
30028+95.21 to 30029+07.25	LT	121176					0.7					
30028+95.24 to 30028+96.89	LT/RT	121118					1.2					
30028+95.80 to 30029+06.37	LT	116930					7.0					
30028+95.89 to 30029+07.93	RT	121160					0.7					
30028+96.11 to 30029+08.12	LT	121146					0.7					
30028+96.24 to 30029+01.03	LT	121100					1.6					
30028+96.24 to 30029+06.90	LT/RT	121123					12.3					
30028+97.03 to 30029+07.83	RT	116983					14.6					
30028+97.04 to 30029+05.44	LT	116925					6.7					
30028+97.22 to 30029+10.80	LT	121095					15.6					
30029+00.07 to 30029+11.92	LT	121141					0.7					
30029+01.70 to 30029+15.24	LT	116917					15.6					
30029+06.26 to 30029+07.90	LT/RT	121129					1.2					
30029+07.11 to 30029+11.79	LT	121090					1.5					
30029+07.22 to 30029+15.94	LT/RT	121134					10.7					
30029+07.28 to 30029+13.87	RT	116978					6.5					
30029+07.98 to 30029+19.96	LT	121085					12.9					
30029+12.55 to 30029+21.27	LT	116911					6.7					
30030+40.69 to 30030+56.13	RT	116997					7.2					
30030+87.99 to 30031+05.07	RT	117003					8.2					
30032+85.66 to 30033+17.50	RT	65036					26.8					
30033+77.60 to 30033+87.04	RT	64489					4.4					
30034+09.46 to 30034+23.40	RT	64482					6.7					
30036+69.12 to 30036+83.16	RT	64475					6.7					
30037+10.02 to 30037+22.49	RT	64468					5.8					
30039+53.79 to 30039+67.00	RT	64461					9.1					
30039+95.54 to 30040+10.78	RT	117009					6.4					
30042+22.98 to 30042+58.28	RT	65023					29.6					
30047+39.88 to 30047+84.61	RT	65700					45.4					
30055+50.47 to 30055+64.34	RT	64438					6.9					
30055+52.72 to 30055+67.60	LT	91266					7.5					
30056+85.49 to 30056+98.17	LT/RT	69223					12.8					
10002+11.59 to 10002+17.60	LT	67315							12.0			
10002+11.76 to 10002+17.78	RT	67320							12.0			
SUB-TOTAL:							451.8		24.0			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
312

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
10006+37.77 to 10006+47.50	LT	67309							16.9			
10006+80.70 to 10006+90.47	LT	67303							16.9			
10012+70.06 to 10012+76.06	RT	67298							12.1			
10012+70.07 to 10012+76.07	LT	67287							12.0			
10012+88.02 to 10012+97.74	LT	67292							16.9			
10013+32.40 to 10013+42.12	LT	67281							16.9			
10016+45.10 to 10016+54.78	RT	117339							20.1			
10016+56.28 to 10016+66.33	RT	117344							20.2			
10016+59.34 to 10016+68.92	RT	117349							20.2			
10016+65.71 to 10016+75.55	RT	117356							20.1			
10017+89.14 to 10017+91.14	RT	117363							19.9			
10018+10.43 to 10018+17.84	RT	117311							20.2			
10018+25.83 to 10018+40.04	RT	117333							27.0			
10018+29.23 to 10018+35.05	RT	117317							20.0			
10018+40.95 to 10018+42.95	RT	117369							19.9			
10018+43.08 to 10018+47.72	RT	117322							20.0			
10018+45.21 to 10018+51.89	RT	117327							27.5			
10018+62.41 to 10018+67.64	RT	117306							20.0			
10019+20.85 to 10019+20.85	RT	117270							20.0			
10019+28.85 to 10019+37.60	RT	117285							20.1			
10019+33.72 to 10019+41.80	RT	117299							20.0			
10019+51.14 to 10019+58.98	RT	117294							20.0			
10019+56.73 to 10019+59.84	LT	67168							21.3			
10019+87.80 to 10020+00.12	LT	122550							27.5			
10022+91.43 to 10023+07.51	LT	117263							32.0			
10023+38.38 to 10023+42.44	LT	67134							21.5			
10023+47.03 to 10023+54.17	LT	117256							23.2			
10023+89.44 to 10024+05.66	LT	117207							32.1			
10026+07.56 to 10026+13.92	LT	67104							10.6			
10026+07.74 to 10026+12.74	RT	125327							13.9			
10026+16.51 to 10026+18.82	RT	117195							10.0			
10026+47.70 to 10026+52.40	RT	117190							10.7			
10029+59.31 to 10029+63.77	LT	123486							9.4			
10029+73.45 to 10029+77.28	LT	123481							8.4			
10029+79.25 to 10029+83.77	RT	117185							9.5			
10029+96.93 to 10029+99.67	RT	117180							8.3			
20002+82.30 to 20002+88.45	LT	67325							16.2			
20003+29.28 to 20003+37.30	LT	117375							16.5			
20003+34.47 to 20003+40.47	RT	117380							12.0			
20011+64.11 to 20011+66.70	RT	117385							10.3			
20011+92.66 to 20011+95.57	RT	117390							11.1			
20014+61.42 to 20014+70.50	LT	67340							20.0			
20014+74.76 to 20014+84.59	LT	117396							20.3			
20014+76.77 to 20014+84.59	LT	117408							20.1			
20014+77.77 to 20014+87.55	LT	117403							20.3			
20014+82.67 to 20014+92.71	LT	67361							20.0			
20014+91.91 to 20015+00.04	LT	117413							20.1			
20014+96.28 to 20015+04.11	LT	117418							20.1			
SUB-TOTAL:									872.3			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
313

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
20015+09.00 to 20015+17.17	LT	117423								20.1		
20016+06.49 to 20016+09.02	RT	67396								21.7		
20016+34.01 to 20016+37.11	RT	67404								21.4		
20016+85.35 to 20016+95.62	RT	117430								20.2		
20016+87.68 to 20016+97.66	LT	117435								20.2		
20016+91.89 to 20017+01.51	LT	117442								20.1		
20017+05.34 to 20017+14.67	LT	117447								20.0		
20022+41.39 to 20022+47.40	RT	108745								12.0		
20022+41.50 to 20022+47.51	LT	108740								12.0		
20022+61.29 to 20022+69.20	LT	67445								23.3		
20022+98.86 to 20023+10.33	LT	67451								26.4		
20024+29.38 to 20024+40.16	LT	67464								25.7		
20024+83.58 to 20024+93.81	LT	117452								25.3		
20029+16.97 to 20029+28.00	LT	67480								27.0		
20029+58.55 to 20029+69.09	LT	67486								25.6		
20033+29.94 to 20033+40.05	LT	117459								25.1		
20033+74.47 to 20033+84.85	LT	117465								25.4		
20042+14.48 to 20042+24.08	LT	117471								19.4		
20042+14.93 to 20042+24.24	RT	117508								19.4		
20042+32.38 to 20042+36.72	RT	117503								19.2		
20042+32.87 to 20042+38.16	LT	117476								18.6		
20042+73.73 to 20042+79.38	LT	117481								19.9		
20042+87.49 to 20042+92.71	RT	117498								21.2		
20042+99.93 to 20043+09.93	LT	117486								20.1		
20043+01.50 to 20043+11.07	RT	117493								19.4		
30008+19.50 to 30008+21.89	RT	67559								20.4		
30008+43.50 to 30008+45.91	RT	67551								20.4		
30011+47.87 to 30011+50.33	RT	67575								20.4		
30011+71.48 to 30011+77.74	RT	67567								22.4		
30013+98.37 to 30014+07.07	LT	67583								18.7		
30021+80.72 to 30021+91.02	RT	117660								20.0		
30021+84.55 to 30021+94.62	LT	117655								19.7		
30021+87.30 to 30021+97.68	RT	117940								20.1		
30021+88.00 to 30021+98.42	RT	117939								20.2		
30022+31.91 to 30022+36.85	LT	117935								20.0		
30022+49.59 to 30022+54.57	LT	117936								20.0		
30022+54.89 to 30022+59.78	LT	117937								20.1		
30022+71.68 to 30022+76.89	LT	117938								20.1		
30023+66.49 to 30023+76.90	RT	117942								20.1		
30023+67.06 to 30023+77.41	RT	117943								20.0		
30023+70.67 to 30023+80.97	LT	117941								20.1		
30023+73.96 to 30023+84.14	RT	117944								20.0		
30024+63.14 to 30024+75.05	LT	117945								26.6		
30025+03.27 to 30025+15.10	LT	117951								27.5		
30026+13.07 to 30026+25.10	RT	117957								26.4		
30026+40.64 to 30026+54.54	LT	67685								35.4		
30026+50.76 to 30026+59.03	RT	117963								26.4		
30026+69.82 to 30026+82.59	LT	67708								39.5		
SUB-TOTAL:										1053.2		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
314

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
30026+89.62 to 30026+98.98	LT	118033							20.0			
30027+03.74 to 30027+13.39	LT	118034							20.1			
30027+08.16 to 30027+18.20	LT	118035							20.1			
30027+09.70 to 30027+19.79	RT	118036							20.1			
30027+76.46 to 30027+79.50	RT	118103							20.1			
30027+94.82 to 30027+98.19	RT	118102							20.1			
30028+00.29 to 30028+03.67	RT	118101							20.0			
30028+01.65 to 30028+05.58	LT	67745							21.0			
30028+18.34 to 30028+21.75	RT	118100							20.0			
30028+23.10 to 30028+27.37	LT	67739							24.3			
30028+95.94 to 30029+06.37	LT	118105							20.1			
30028+95.96 to 30029+06.09	LT	118106							20.0			
30028+97.03 to 30029+07.16	RT	118107							20.0			
30029+01.70 to 30029+12.01	LT	118104							20.0			
30030+46.86 to 30030+56.13	RT	117518							15.6			
30030+87.99 to 30030+97.13	RT	117513							15.4			
30033+80.85 to 30033+87.04	RT	67827							12.3			
30034+09.46 to 30034+16.66	RT	67822							13.5			
30036+75.42 to 30036+83.16	RT	67838							13.9			
30037+10.02 to 30037+18.15	RT	67832							14.3			
30039+62.26 to 30039+67.00	RT	67843							14.8			
30039+95.54 to 30040+06.28	RT	118108							16.5			
30043+65.35 to 30043+70.50	RT	67858							10.0			
30043+67.92 to 30043+73.09	LT	67853							10.0			
30055+56.95 to 30055+64.34	RT	67870							13.1			
30055+61.59 to 30055+67.60	LT	118113							12.2			
SUB-TOTAL :									447.5			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
315

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
10000+25.63 to 10001+34.36	LT	135759			105.8			
10001+52.11 to 10002+61.29	LT	135859			104.5			
10002+79.34 to 10002+92.09	LT	136014			11.1			
10003+05.17 to 10003+77.30	LT	135867			62.3			
10002+24.33 to 10008+78.50	RT				3928.3			
10003+90.06 to 10004+43.46	LT	135244			46.7			
10004+55.40 to 10005+21.80	LT	136117			59.1			
10005+34.23 to 10006+51.84	LT	135979			120.0			
10005+80.50 to 10006+41.79	LT	135908			23.5			
10006+76.43 to 10008+11.05	LT	135377			134.8			
10006+86.46 to 10008+07.05	LT	136191			50.1			
10007+27.09 to 10017+99.45	RT	136451			1954.9			
10008+29.18 to 10008+50.73	LT	135708			19.6			
10008+33.18 to 10008+46.73	LT	135312			2.7			
10008+66.12 to 10008+82.20	LT	135619			14.6			
10008+70.12 to 10008+78.20	LT	135551			0.9			
10008+96.83 to 10009+52.65	LT	135466			47.1			
10009+00.83 to 10009+56.65	LT	135417			24.5			
10009+67.97 to 10010+06.68	LT	135665			16.9			
10009+71.97 to 10010+10.68	LT	135607			31.6			
10010+26.23 to 10011+53.92	LT	136230			117.3			
10010+30.23 to 10011+49.92	LT	135809			49.9			
10011+72.92 to 10013+02.08	LT	135368			127.2			
10011+76.92 to 10012+70.07	LT	135565			39.7			
10012+76.07 to 10012+92.03	LT	135212			5.2			
10013+28.07 to 10013+52.70	LT	135494			29.4			
10013+38.10 to 10013+46.72	LT	136061			1.0			
10013+67.22 to 10014+10.43	LT	135997			40.2			
10013+71.22 to 10014+06.43	LT	135803			12.3			
10013+74.41 to 10014+15.59	RT	136708			28.6			
10014+25.97 to 10014+45.08	LT	135767			17.8			
10014+29.97 to 10014+41.08	LT	135926			1.7			
10014+60.83 to 10015+23.15	LT	135854			58.3			
10014+64.83 to 10015+19.17	LT	136174			20.8			
10015+37.15 to 10015+68.82	LT	136020			29.7			
10015+41.15 to 10015+64.82	LT	135294			7.2			
10015+88.76 to 10017+18.84	LT/RT	136338			204.8			
10015+92.76 to 10016+18.04	LT	135917			8.3			
10015+99.13 to 10016+46.33	RT	135427			20.9			
10016+04.67 to 10016+59.30	RT	135301			41.6			
10016+14.38 to 10016+66.48	LT/RT	136181			22.5			
10016+52.37 to 10018+12.17	RT	136412			90.2			
10016+65.94 to 10016+87.16	RT	135555			22.5			
10016+74.86 to 10017+91.14	RT	135112			28.1			
10017+25.77 to 10018+76.68	RT	136508			940.9			
10017+87.35 to 10018+22.32	RT	135089			219.1			
10018+06.62 to 10018+27.40	RT	136384			28.2			
10018+22.59 to 10018+58.62	RT	136676			55.2			
SUB-TOTAL:					9027.6			
TOTAL:					35829			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
316

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
10018+31.29 to 10019+66.13	RT	135123			152.7			
10018+33.25 to 10018+44.99	RT	134855			14.6			
10018+40.95 to 10018+92.92	RT	136428			10.6			
10018+45.21 to 10018+66.23	RT	135159			31.1			
10018+51.80 to 10019+68.02	RT	136391			221.7			
10018+65.72 to 10019+54.15	RT	136369			63.0			
10018+79.15 to 10019+89.02	RT	135144			492.6			
10018+88.56 to 10019+46.92	LT/RT	135176			62.3			
10019+08.48 to 10019+35.22	RT	135101			33.4			
10019+36.46 to 10020+83.09	LT/RT	136436			74.1			
10019+57.50 to 10019+78.55	RT	136363			9.2			
10019+82.88 to 10019+90.00	RT	135172			0.9			
10019+96.10 to 10020+08.07	LT	136359			1.9			
10019+96.82 to 10021+03.54	RT	136007			36.9			
10020+11.15 to 10022+96.23	LT	136714			123.3			
10021+19.33 to 10022+84.75	RT	135990			70.6			
10021+52.76 to 10022+64.57	LT/RT	135471			71.0			
10023+02.31 to 10026+07.74	RT	135486			136.1			
10023+38.56 to 10023+47.72	LT	135193			2.6			
10023+41.19 to 10023+54.25	LT	136323			5.6			
10023+83.54 to 10029+59.51	LT	134756			896.3			
10024+00.87 to 10026+08.24	LT	136722			89.9			
10024+11.38 to 10025+99.24	LT/RT	135660			117.4			
10025+93.82 to 10026+07.74	RT	136332			5.8			
10026+12.74 to 10026+18.54	RT	135188			5.1			
10026+13.24 to 10026+63.96	LT	134822			21.9			
10027+44.77 to 10029+77.45	LT	136688			74.1			
20010+64.93 to 20014+11.71	LT	135071			158.0			
20010+64.99 to 20011+66.21	RT	136496			71.9			
20011+93.31 to 20014+38.91	RT	135055			107.2			
20013+28.16 to 20014+78.47	LT	134864			1303.6			
20013+67.07 to 20014+36.33	LT	135239			87.1			
20013+95.65 to 20014+26.01	LT	135798			14.1			
20014+11.26 to 20014+62.78	LT	136051			24.5			
20014+14.81 to 20014+57.27	RT	136025			37.1			
20014+27.83 to 20014+51.09	LT/RT	135930			5.6			
20014+61.72 to 20014+78.29	LT	136536			15.1			
20014+67.56 to 20014+83.69	LT	136166			5.4			
20014+67.80 to 20014+90.15	LT	135816			34.6			
20014+71.90 to 20014+97.68	LT	136525			27.5			
20014+72.27 to 20015+95.10	LT/RT	135872			345.2			
20014+73.80 to 20015+28.60	LT	136123			103.8			
20014+83.22 to 20015+04.85	LT	135019			20.4			
20014+92.20 to 20016+00.49	LT/RT	135283			51.1			
20014+98.35 to 20015+15.91	LT	135030			18.8			
20015+17.23 to 20017+07.86	LT	135539			106.6			
20014+58.27 to 20020+36.21	LT	136264			7496.1			
20015+45.96 to 20016+48.30	LT	135050			972.7			
SUB-TOTAL:					13831.3			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
317

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
P	F							
20016+45.13 to 20017+15.52	RT	135772			73.3			
20016+72.80 to 20016+93.15	LT	135042			29.7			
20016+97.41 to 20017+48.03	LT/RT	136513			33.0			
20017+13.41 to 20017+72.62	LT	135409			26.7			
20017+36.55 to 20017+50.17	RT	135673			0.9			
20017+54.33 to 20017+67.98	RT	135651			3.8			
20017+75.06 to 20018+90.84	LT	135936			62.8			
20019+04.00 to 20019+79.90	LT	135749			30.1			
20019+04.00 to 20019+79.90	LT	135319			28.2			
20019+92.63 to 20020+56.37	LT	135217			18.6			
20019+92.63 to 20020+56.37	LT	136198			29.0			
20020+72.65 to 20022+16.01	LT	135573			80.4			
20020+72.65 to 20022+16.14	LT	135724			35.3			
20022+30.66 to 20022+41.53	LT	136317			3.0			
20022+47.50 to 20022+64.26	LT	135202			7.8			
20022+95.71 to 20024+47.62	LT	135225			38.0			
20023+07.01 to 20024+32.69	LT	135789			71.1			
20024+82.42 to 20026+68.78	LT	135713			63.3			
20024+90.50 to 20026+68.78	LT	136548			102.5			
20026+83.09 to 20027+30.47	LT	135754			11.6			
20026+83.09 to 20027+30.47	LT	135278			22.3			
20027+45.13 to 20027+85.64	LT	136259			9.8			
20027+45.13 to 20027+85.64	LT	136158			16.5			
20027+98.98 to 20029+20.47	LT	135532			61.6			
20029+65.69 to 20030+45.10	LT	135900			28.5			
20030+68.62 to 20031+14.28	LT/RT	136002			26.7			
20031+29.40 to 20033+41.17	LT	136554			111.5			
20032+03.68 to 20033+18.99	LT/RT	135828			98.6			
20032+83.41 to 20033+33.22	LT	135010			21.4			
20033+73.27 to 20034+24.96	LT	134999			21.8			
20033+81.48 to 20034+19.38	LT	136568			13.6			
20033+94.01 to 20034+94.36	LT/RT	135948			86.5			
20035+82.05 to 20037+64.28	LT/RT	135324			153.2			
20036+97.37 to 20039+26.54	LT	135729			131.4			
20039+38.07 to 20041+54.92	LT	136287			135.1			
20039+63.57 to 20040+53.84	LT/RT	136206			78.2			
20040+68.71 to 20041+18.42	RT	135578			26.8			
20041+68.62 to 20042+28.40	LT	134986			30.9			
30005+40.42 to 30007+24.72	RT	136576			53.1			
30006+50.74 to 30007+24.72	RT	135434			26.5			
30007+35.98 to 30008+21.56	RT	135641			86.7			
30008+43.50 to 30008+92.16	RT	135737			29.8			
30008+43.84 to 30008+92.16	RT	135679			35.3			
30009+01.58 to 30011+49.94	RT	136066			168.7			
30009+01.58 to 30011+50.33	RT	136090			205.5			
30011+71.48 to 30012+33.50	RT	135964			120.0			
30011+74.81 to 30012+66.79	RT	135523			45.7			
30012+27.80 to 30013+46.40	LT/RT	136152			72.0			
SUB-TOTAL:					2666.8			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
318

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
P	F							
30016+77.32 to 30017+25.74	LT	136222			19.4			
30016+80.06 to 30017+23.01	LT	135265			13.7			
30017+38.25 to 30017+89.00	LT	136131			19.5			
30017+40.73 to 30017+86.50	LT	135891			15.1			
30018+04.92 to 30018+37.03	LT	135461			11.1			
30018+07.30 to 30018+34.40	LT	136041			7.8			
30020+38.64 to 30021+16.90	RT	135402			48.4			
30020+38.69 to 30023+83.77	RT	136235			2677.5			
30020+88.07 to 30021+30.79	LT	135780			17.1			
30020+95.23 to 30021+88.53	RT	136645			46.8			
30021+13.40 to 30021+81.33	RT	135833			27.2			
30021+29.09 to 30021+84.92	LT	135329			24.0			
30021+38.18 to 30022+04.25	LT	135973			216.6			
30021+47.95 to 30022+84.86	LT	136308			230.4			
30021+89.16 to 30022+21.00	LT	135688			24.8			
30021+89.82 to 30023+75.19	RT	135440			1882.0			
30021+94.07 to 30022+37.31	LT	135953			29.8			
30021+97.08 to 30022+20.03	RT	134895			35.3			
30021+99.95 to 30022+33.22	LT	136108			58.2			
30022+46.84 to 30022+56.73	LT	136655			10.1			
30022+52.63 to 30022+65.45	LT	134884			19.2			
30022+75.92 to 30023+71.46	LT	136139			51.7			
30022+84.86 to 30023+80.60	LT	136296			301.7			
30022+99.96 to 30022+99.96	RT	135484			295.3			
30023+43.33 to 30023+67.68	RT	136637			44.2			
30023+75.97 to 30027+08.31	LT/RT	134912			360.7			
30023+80.58 to 30024+66.98	LT	134905			36.8			
30023+83.46 to 30024+57.79	LT	135624			238.0			
30023+83.53 to 30026+16.87	RT	136594			102.3			
30023+87.84 to 30026+27.31	RT	134961			217.8			
30024+63.17 to 30024+77.41	LT	135612			38.7			
30025+11.08 to 30026+45.56	LT	136585			56.3			
30025+24.64 to 30026+31.40	LT	134975			23.7			
30026+50.68 to 30027+51.20	RT	134844			177.0			
30026+55.39 to 30027+10.01	RT	134954			24.4			
30026+67.93 to 30026+90.82	LT	135478			10.9			
30026+79.89 to 30028+03.64	LT	135509			25.6			
30026+96.58 to 30028+14.93	LT	135338			73.2			
30027+12.19 to 30027+38.22	LT	136629			39.1			
30027+19.64 to 30027+79.54	RT	136031			45.6			
30027+51.20 to 30027+65.09	RT	134839			66.2			
30027+51.56 to 30027+78.47	RT	134831			1815.0			
30027+94.31 to 30028+02.27	RT	136622			5.6			
30027+96.18 to 30028+06.77	RT	134930			17.8			
30028+11.50 to 30028+11.50	RT	135476			295.3			
30028+14.86 to 30028+83.72	RT	135352			158.7			
30028+20.04 to 30028+97.27	RT	136075			45.5			
30028+23.48 to 30029+02.77	LT	136211			64.2			
SUB-TOTAL:					10065.3			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
319

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
30028+34.98 to 30029+13.81	LT	135386				1069.0		
30028+73.33 to 30028+96.48	LT	134939				24.9		
30029+05.88 to 30029+73.38	LT	136604				32.5		
30029+07.04 to 30029+63.39	RT	135256				23.7		
30029+11.47 to 30029+60.60	LT	135586				20.3		
30029+15.37 to 30029+67.84	LT	135249				84.8		
30029+56.70 to 30030+51.61	LT	135451				79.6		
30029+58.72 to 30030+11.13	RT	135634				26.1		
30043+41.63 to 30043+68.92	LT	135694				58.7		
30043+53.66 to 30043+65.53	RT	135502				5.7		
30043+70.11 to 30044+31.57	RT	135841				20.5		
30043+72.91 to 30044+00.68	LT	135594				38.8		
30054+00.22 to 30055+64.52	LT	136665				53.2		
30054+56.25 to 30055+61.11	RT	135395				27.5		
SUB-TOTAL:						1565.3		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
320

TEMPORARY TRAFFIC CONTROL GENERAL NOTES

1. MAINTENANCES 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.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

23. PCMS SHOULD BE PLACED APPROX. 500 TO 800 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















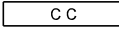


SIGNING AND PAVEMENT MARKINGS

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




DROP-OFFS

25. FOR DROP OFFS, ATTENTION IS DIRECTED TO DESIGN STANDARD INDEX 102 SERIES. USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.
26. 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

	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		
	TYPE III BARRICADE		
	PORTABLE CHANGEABLE MESSAGE SIGN		ADVANCED WARNING ARROW PANEL
	PEDESTRIAN PATH		INLET PROTECTION
	CRASH CUSHION		FLOATING TURBIDITY BARRIER
	STAKED SILT FENCE		

LEGEND FOR TRAFFIC CONTROL TYPICAL SECTIONS AND CROSS SECTIONS

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

REVISIONS				MARK W. SUAREZ, P.E. LICENSE NO. 76977 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. 321
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 RAYMON AVENUE. USE PROVIDED DETOUR 1 IF NEEDED TO FACILITATE DRAINAGE CONSTRUCTION ACTIVITIES DURING NON-PEAK HOURS.
4. CONSTRUCT/INSTALL TEMPORARY PEDESTRIAN WALKWAY AS NEEDED FOR PARKING LANE CONSTRUCTION AREAS TO MAINTAIN PEDESTRIAN ACCESS ON RAYMOND AVENUE.
5. CONSTRUCT TEMPORARY PEDESTRIAN WALKWAY ADJACENT TO ROUNDABOUT WORKZONE USING PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES, AND LOW PROFILE BARRIERS PER STANDARD INDEX 102-120.
6. 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 PHASE 4 IS TO PARTIALLY OPEN THE ROUNDABOUT TO WESTBOUND TRAFFIC AND ACCESS, IMPLEMENT THE PROVIDED DETOUR FOR THE CLOSURE OF THE VIRGINIA AVENUE AND NORTH STREET INTERSECTION CLOSURE, THEN CLOSE THE INTERSECTION OF VIRGINIA AVENUE FOR ANY REMAINING CONSTRUCTION ACTIVITIES EASTBOUND ALONG NORTH STREET.

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				 MARK W. SUAREZ, P.E. LICENSE NO. 76977 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. 322
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 EXISTING 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 PROVIDED PALM SPRINGS DRIVE DETOUR 1 FOR CONSTRUCTION OF CURBING, DRIVEWAYS, AND SIDEWALK BETWEEN NORTH STREET AND ARDEN STREET.
5. IMPLEMENT PROVIDED 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 TO THE NEWLY CONSTRUCTED SIDEWALK ALONG THE EASTBOUND PALM SPRINGS DRIVE. THEN CLOSE ACCESS TO PALM SPRINGS DRIVE FROM ORLANDO AVENUE, BARTON STREET, AND STANLEY STREET AS ROUNDAABOUT CONSTRUCTION ACTIVITIES PROGRESS ALONG THE WEST HALF OF PALM SPRINGS DRIVE. MAINTAIN MINIMUM 10-FT TRAVEL LANES FOR BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AT ALL TIMES.

1. IMPLEMENT PEDESTRIAN DETOUR TO NEWLY CONSTRUCTED SIDEWALK ALONG EASTBOUND 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 THE WEST OF PALM SPRINGS DRIVE.
3. INSTALL ROAD CLOSURE TEMPORARY TRAFFIC CONTROL DEVICES ON STANLEY STREET, BARTON STREET, AND ORLANDO AVENUE AS NEEDED TO COMPLETE ROUNDAABOUT SEGMENT CONSTRUCTION.
4. IMPLEMENT PROVIDED LOCAL DETOUR SIGNAGE AS NEEDED FOR EACH SIDE STREET ACCESS CLOSURE.
5. CONSTRUCT AS MUCH CURBING, SHOULDER, STRUCTURAL COURSE, DRAINAGE STRUCTURES, AND ROUNDAABOUT AS POSSIBLE BEFORE COMPLETE CLOSURE OF PALM SPRINGS DRIVE.

STAGE 2 STEP 3:

THE INTENT OF STAGE 3 IS THE COMPLETE CLOSURE OF 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 CLOSURE OF PALM SPRINGS DRIVE.
2. IMPLEMENT PROVIDED PALM SPRINGS DRIVE TOTAL CLOSURE DETOUR; AND ELIMINATE ANY CONTRADICTING DETOUR SIGNAGE FROM CONCURRENTLY IMPLEMENTED LOCAL DETOURS.
3. CONSTRUCT MEDIANS WHERE APPLICABLE.
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:

THE INTENT OF STAGE 3 STEP 1 IS TO PERFORM INTERMITTENT SIDEWALK, CURB RAMP, AND DRIVEWAY REPAIR BETWEEN STATIONS 30030+54 THROUGH 30042+98, AND 30044+60 THROUGH 30055+50; WHICH MAY NOT NECESSITATE RESTRIPING OF EXISTING PAVEMENT.

1. INSTALL ADVANCED WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT INDEXES 102-600, 102-601, 102-602, AND 102-660.
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 REPAIRS USE STANDARD 102-602.

STAGE 3 STEP 2:


THE INTENT OF STAGE 3 IS TO PERFORM MILLING AND RESURFACING OF PALM SPRINGS DRIVE SOUTHBOUND FROM STATION 30030+54 TO STATION 30056+70 USING FLAGGING OPERATIONS.

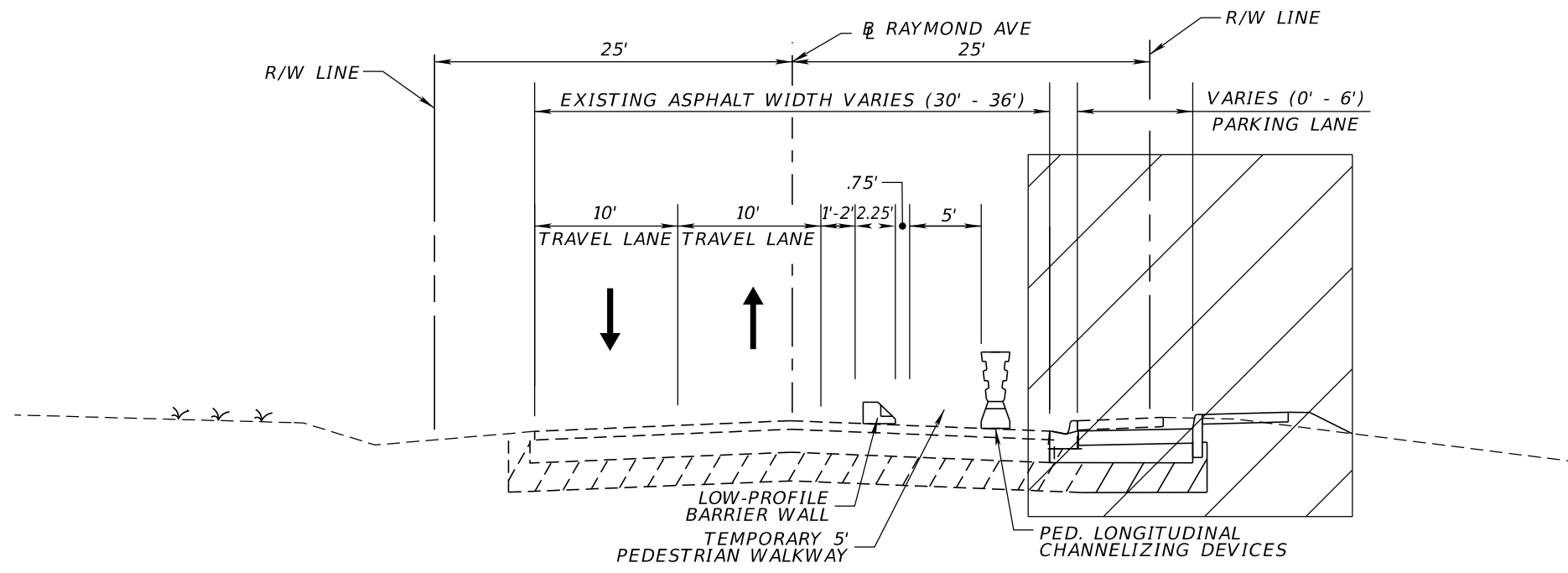
1. USING FLAGGING OPERATIONS PER STANDARD 102-604, CONDUCT MILLING AND RESURFACING OF SOUTHBOUND PALM SPRINGS DRIVE.
2. USE ASPHALT STAMPING PROCEDURES FOR SOUTHBOUND TEXTURED ASPHALT BETWEEN STATIONS 30042+76 AND 30044+59.

STAGE 3 STEP 3

THE INTENT OF STAGE 3 IS TO PERFORM MILLING AND RESURFACING OF PALM SPRINGS DRIVE NORTHBOUND FROM STATION 30030+54 TO STATION 30056+70 USING FLAGGING OPERATIONS.

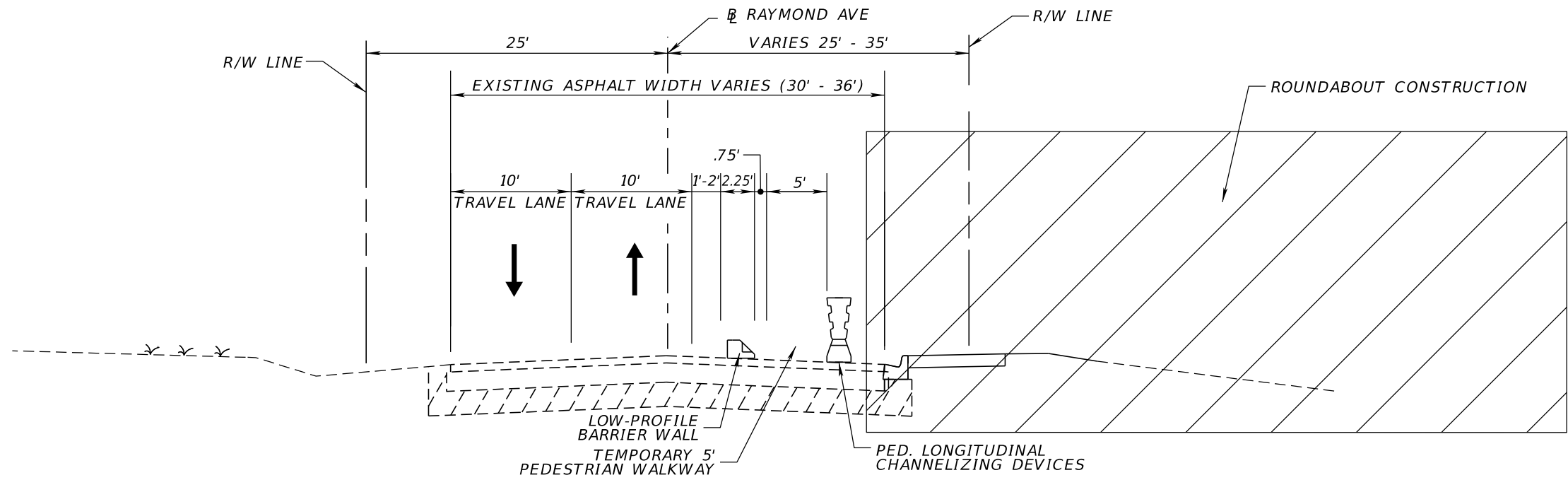
1. USING FLAGGING OPERATIONS PER STANDARD 102-604, CONDUCT MILLING AND RESURFACING OF NORTHBOUND PALM SPRINGS DRIVE.
2. USE ASPHALT STAMPING PROCEDURES FOR NORTHBOUND TEXTURED ASPHALT BETWEEN STATIONS 30042+76 AND 30044+59.
3. CONSTRUCT CONCRETE CROSSWALK AT STATION 30043+70 USING FLAGGER OPERATIONS.
4. INSTALL PERMANENT PAVEMENT MARKINGS IN FINAL LOCATIONS.

REVISIONS				 MARK W. SUAREZ, P.E. LICENSE NO. 76977 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. 323
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		



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

* CAN BE CONSTRUCTED AS A FIRST STEP
 PRIOR TO ROUNDABOUT CONSTRUCTION



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

 WORK ZONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

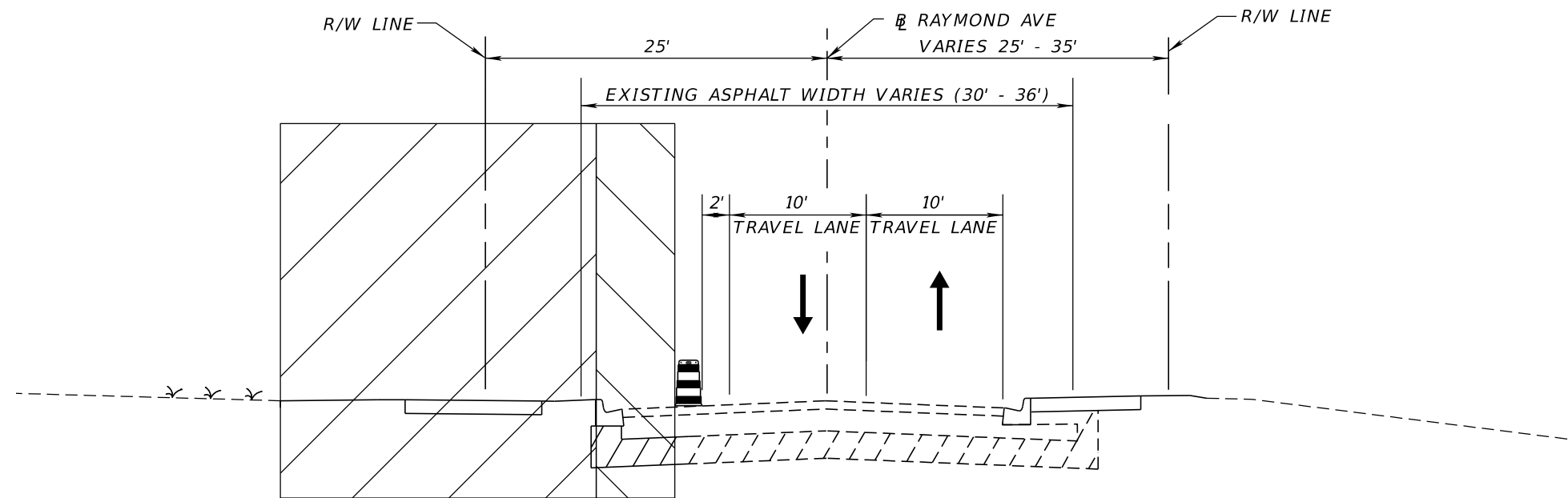


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

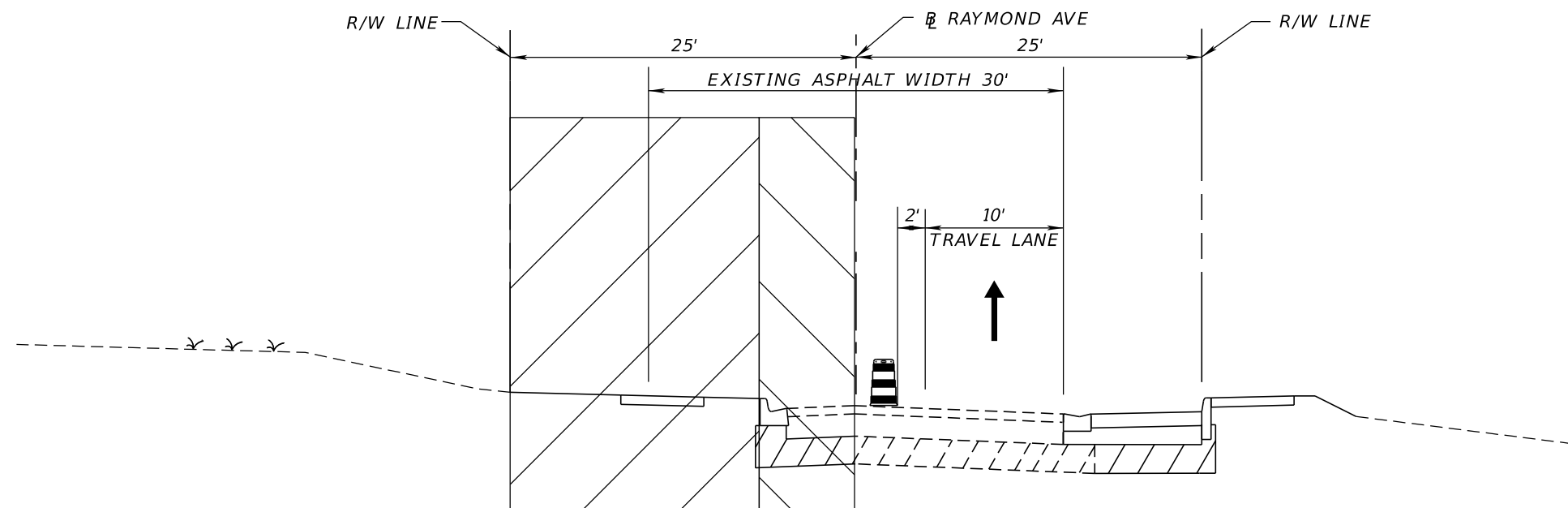
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS**

SHEET NO.
324

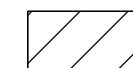


TYPICAL SECTION
 RAYMOND AVENUE - PHASE 1 STAGE 2
 STA. 10020+20 TO STA. 10026+00

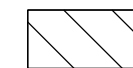


TYPICAL SECTION
 RAYMOND AVENUE - PHASE 1 STAGE 3
 STA. 10013+20 TO STA. 10019+60

* SOUTHBOUND TRAFFIC DETOURED ONTO
 BARTON ST. / HOMER AVE. / ADAMS ST.



WORK ZONE



WORK ZONE DURING
 OFF-PEAK/DETOUR HOURS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

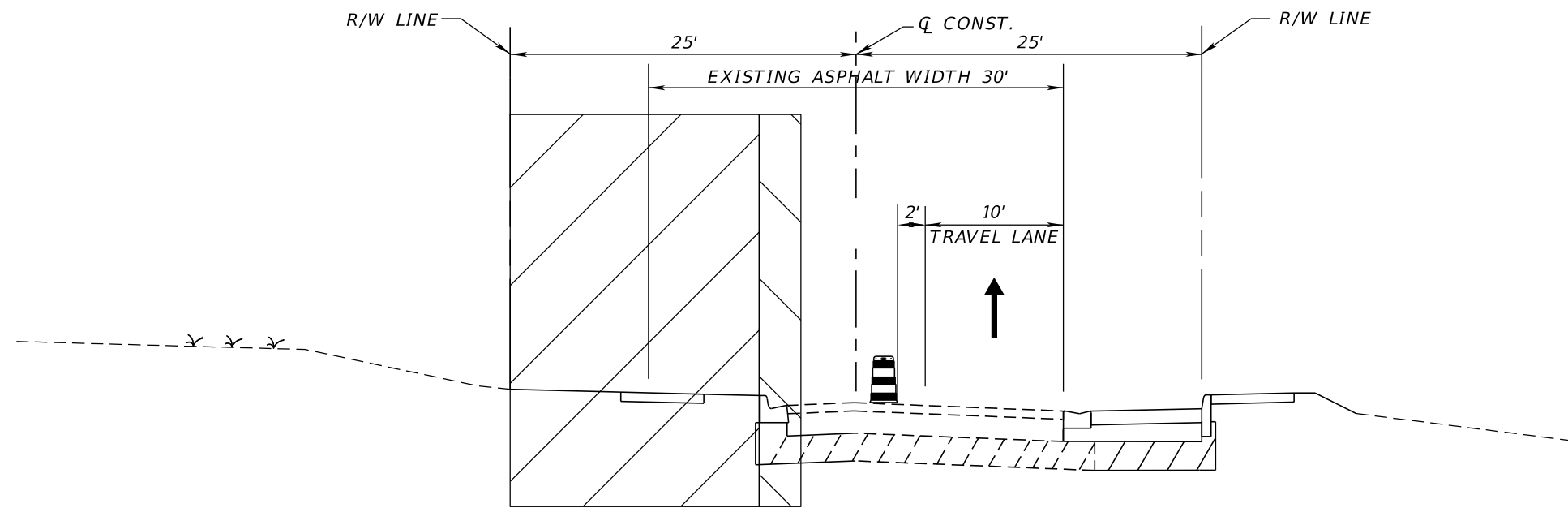


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

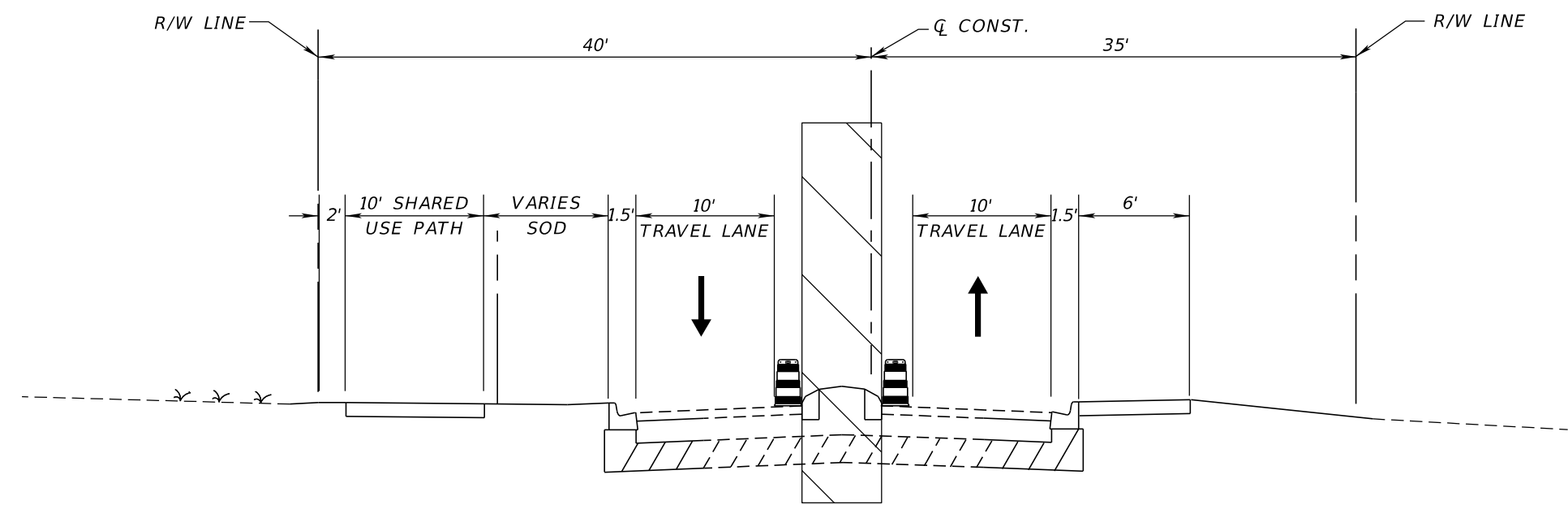
TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS



SHEET
 NO.
 325



* 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			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

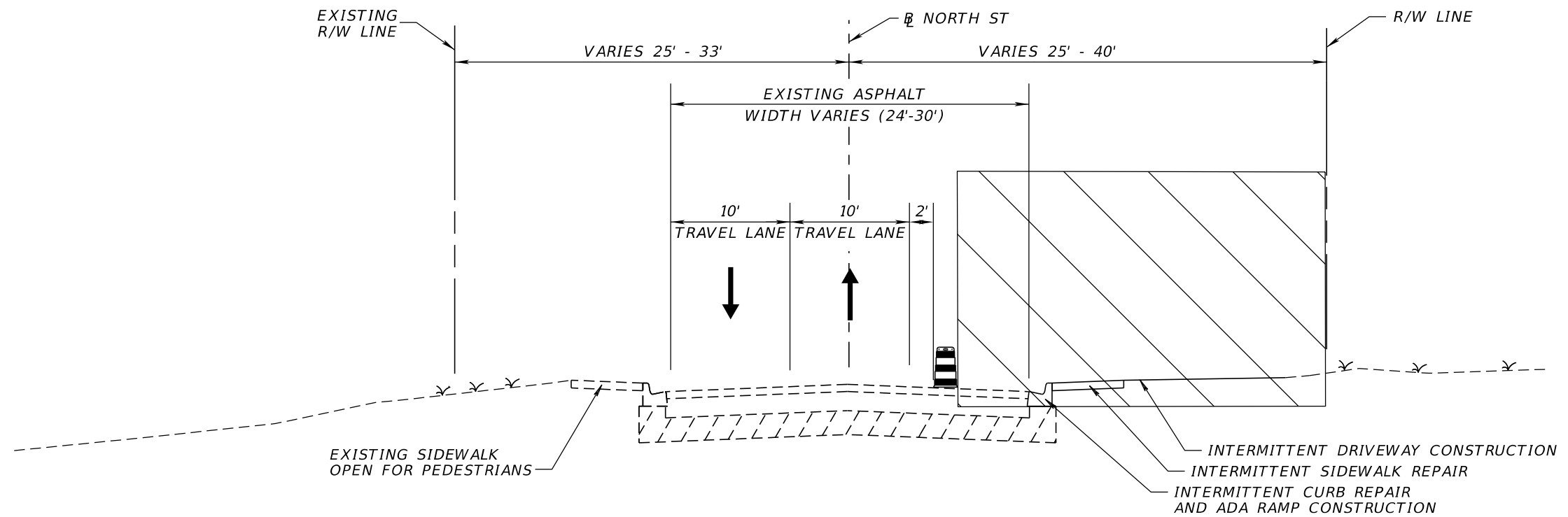


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.
 326



TYPICAL SECTION
 NORTH STREET - PHASE 2 STAGE 1
 STA. 20003+43 TO STA. 20043+35

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

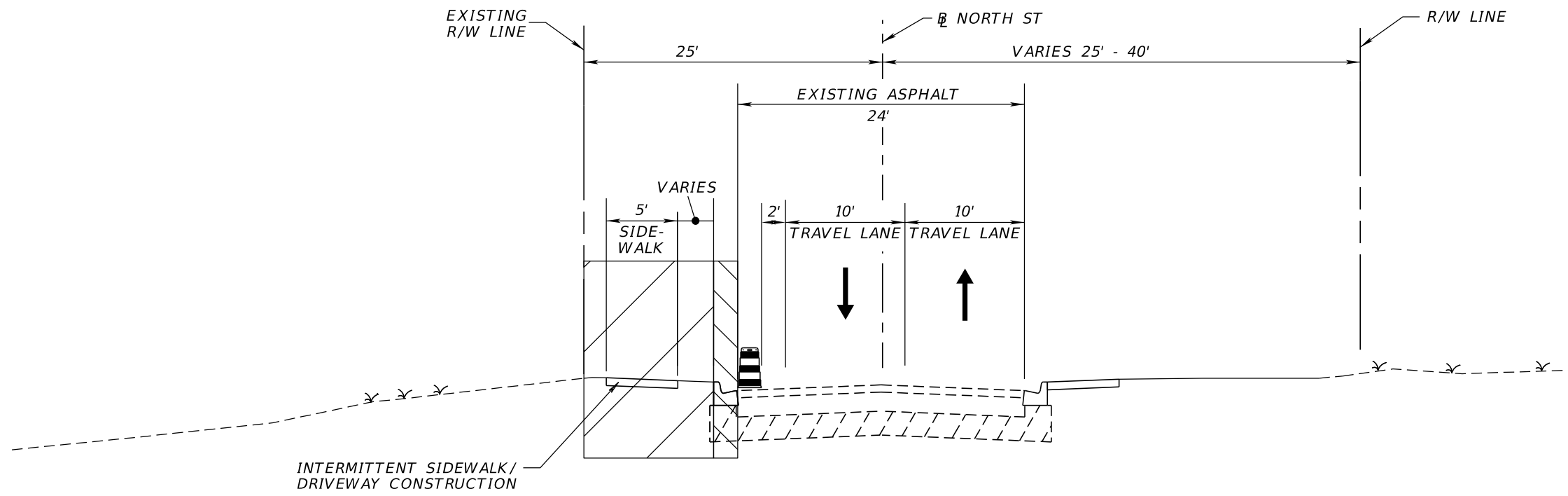


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

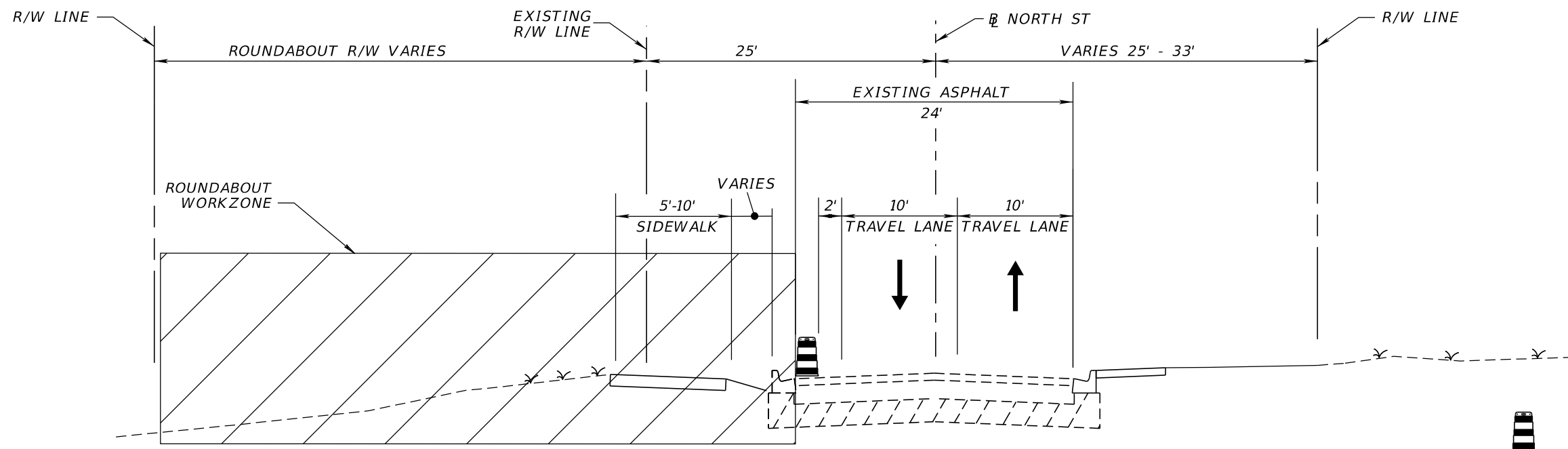
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS


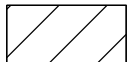

SHEET NO.
 327



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

-  CHANNELIZING DEVICE
-  WORK ZONE
-  WORK ZONE DURING OFF-PEAK HOURS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

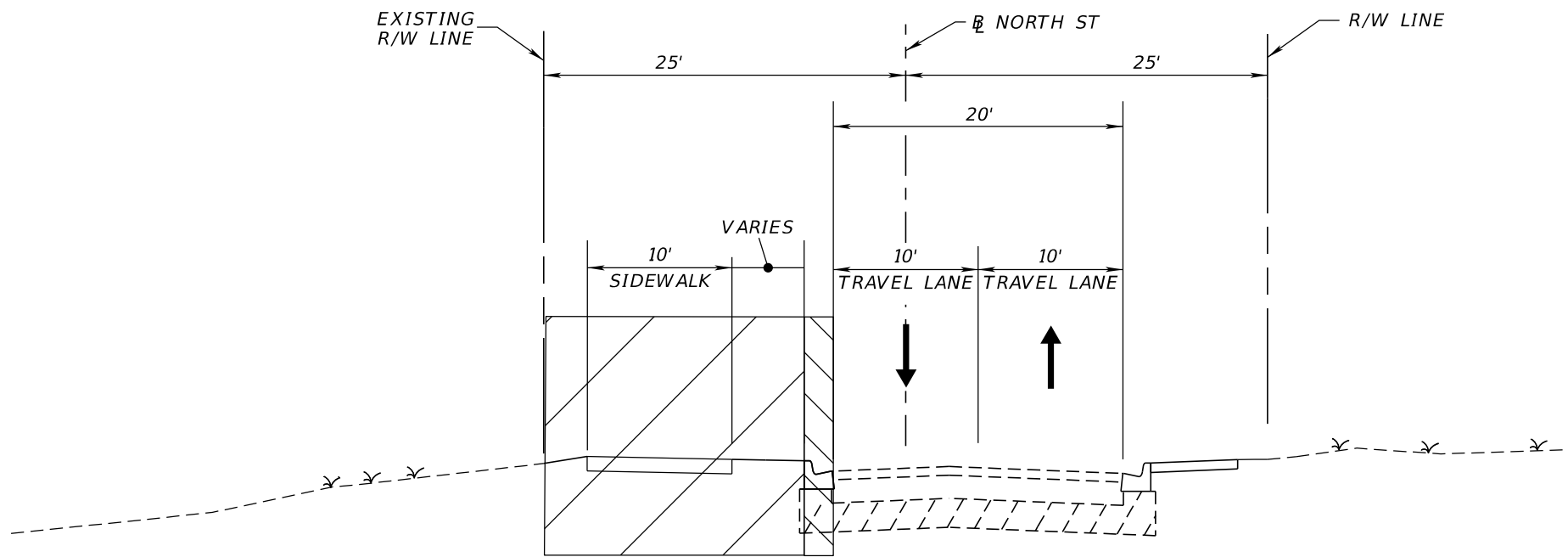


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

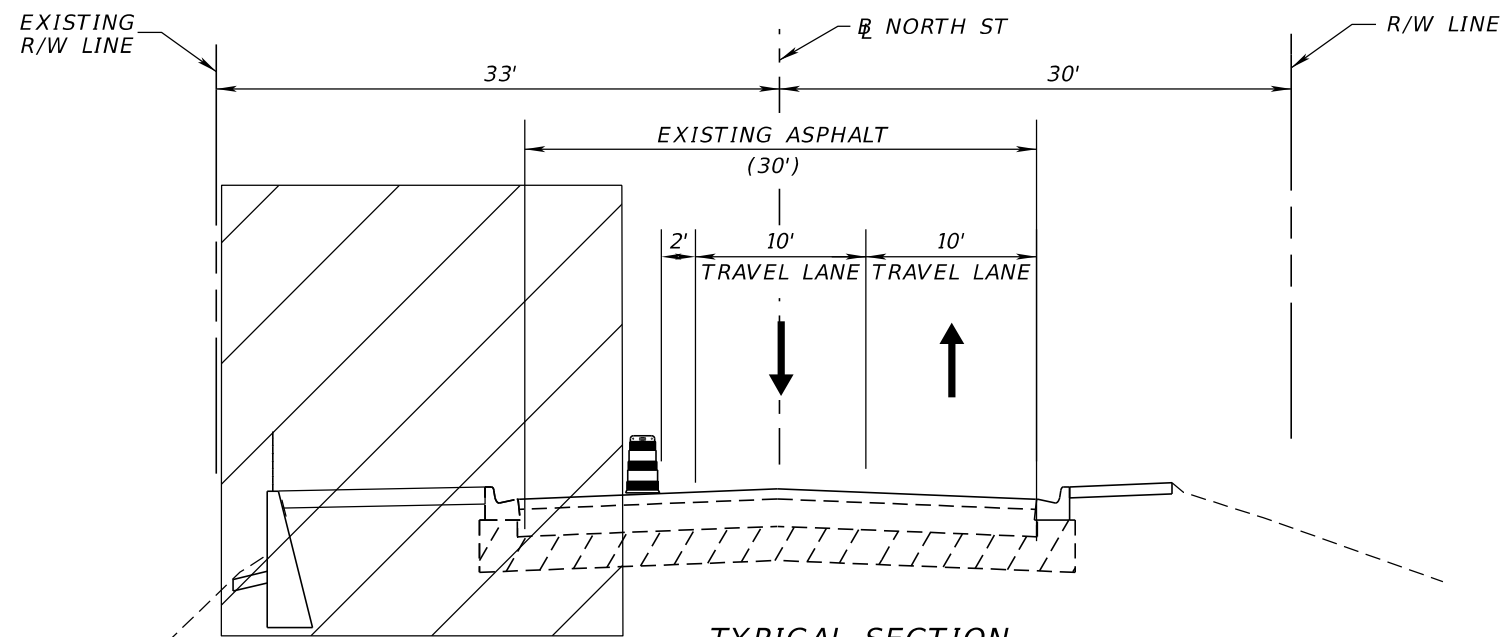
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS


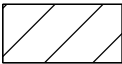

SHEET NO.
 328



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)

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



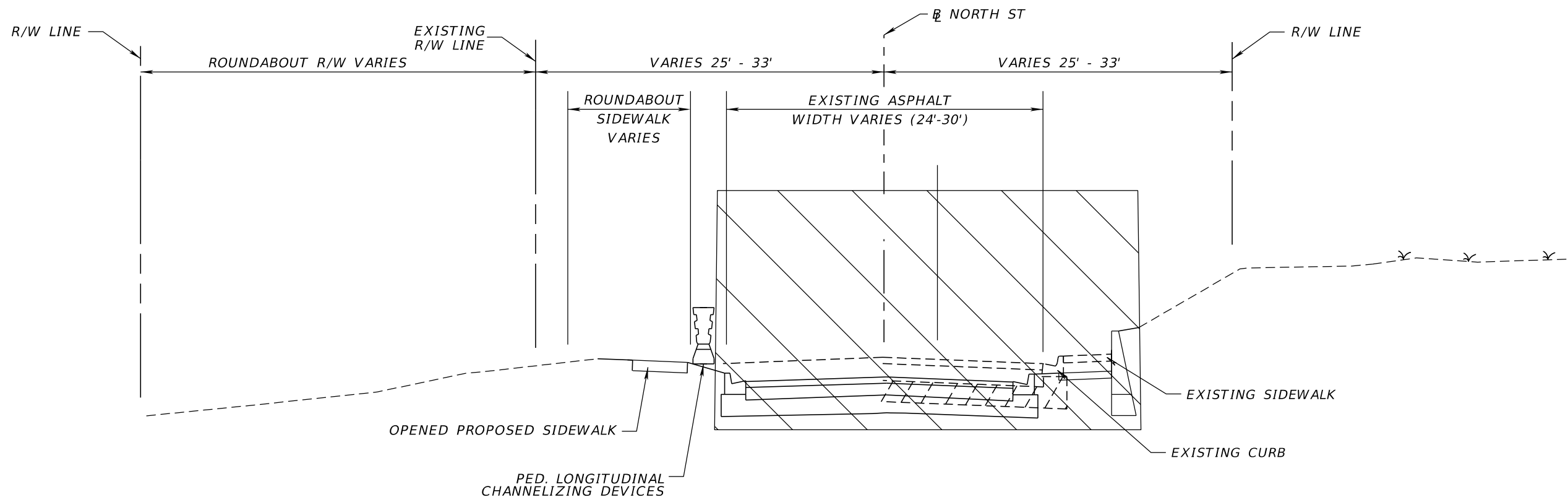
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET
 NO.

329



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

 CHANNELIZING DEVICE

 WORK ZONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

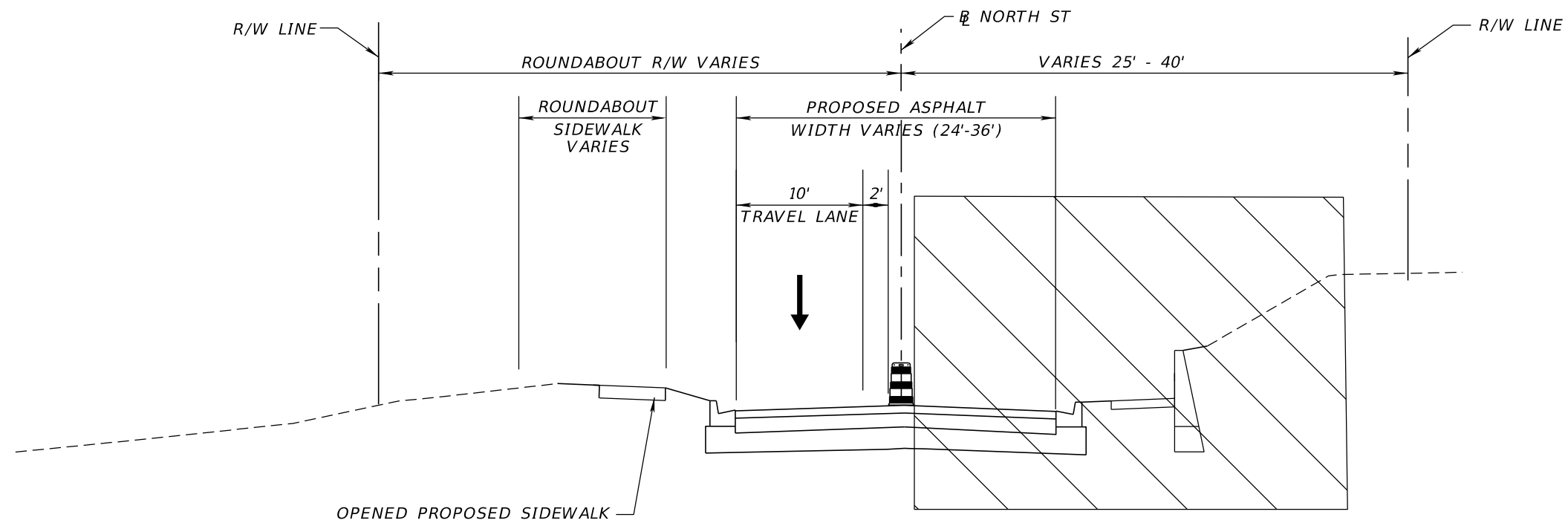


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

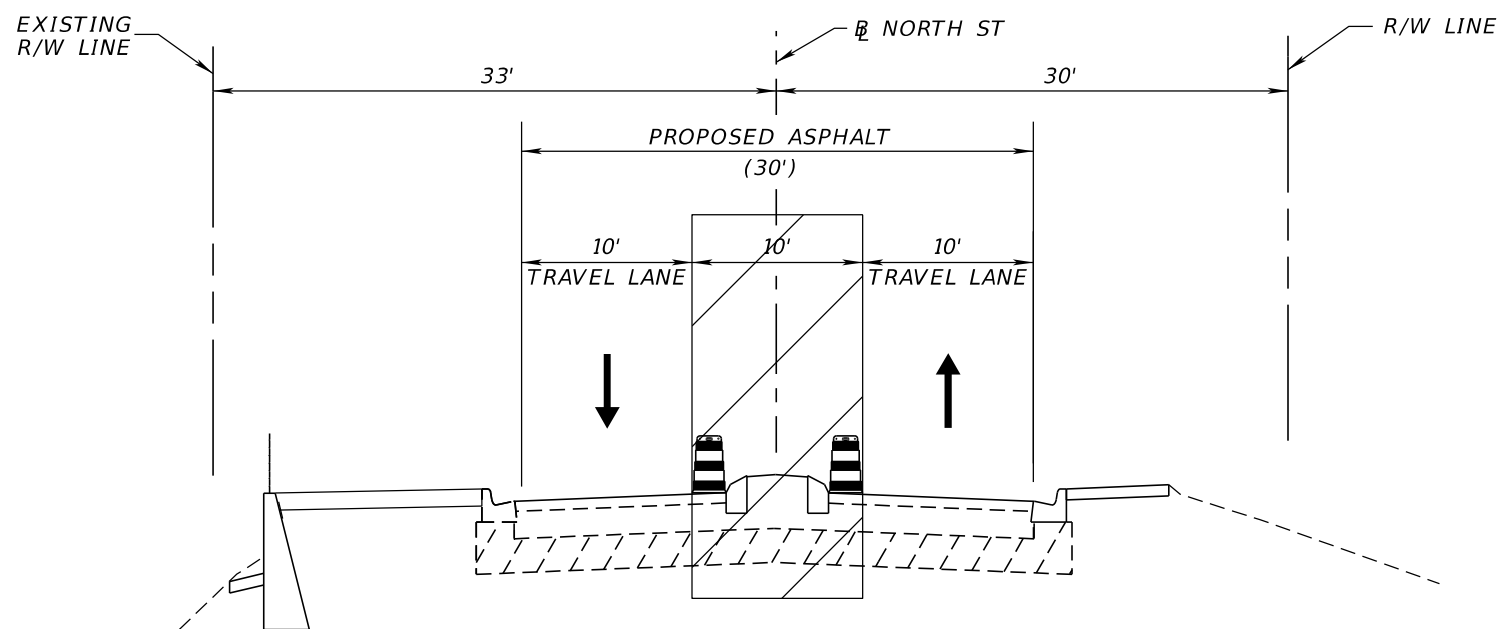
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS


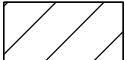
SHEET NO.
 330



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)

 CHANNELIZING DEVICE
 WORK ZONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

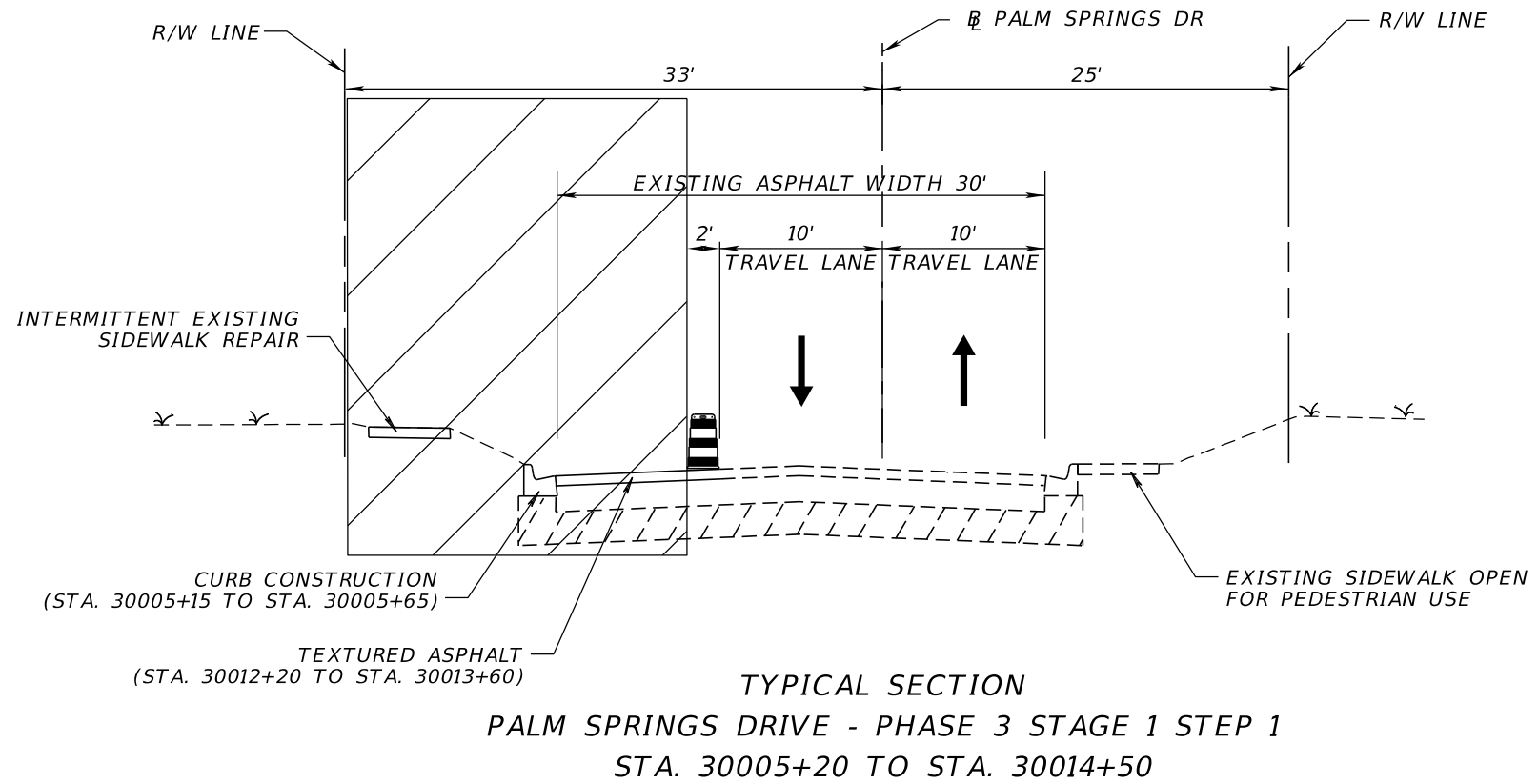


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.
 331



 CHANNELIZING DEVICE

 WORK ZONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

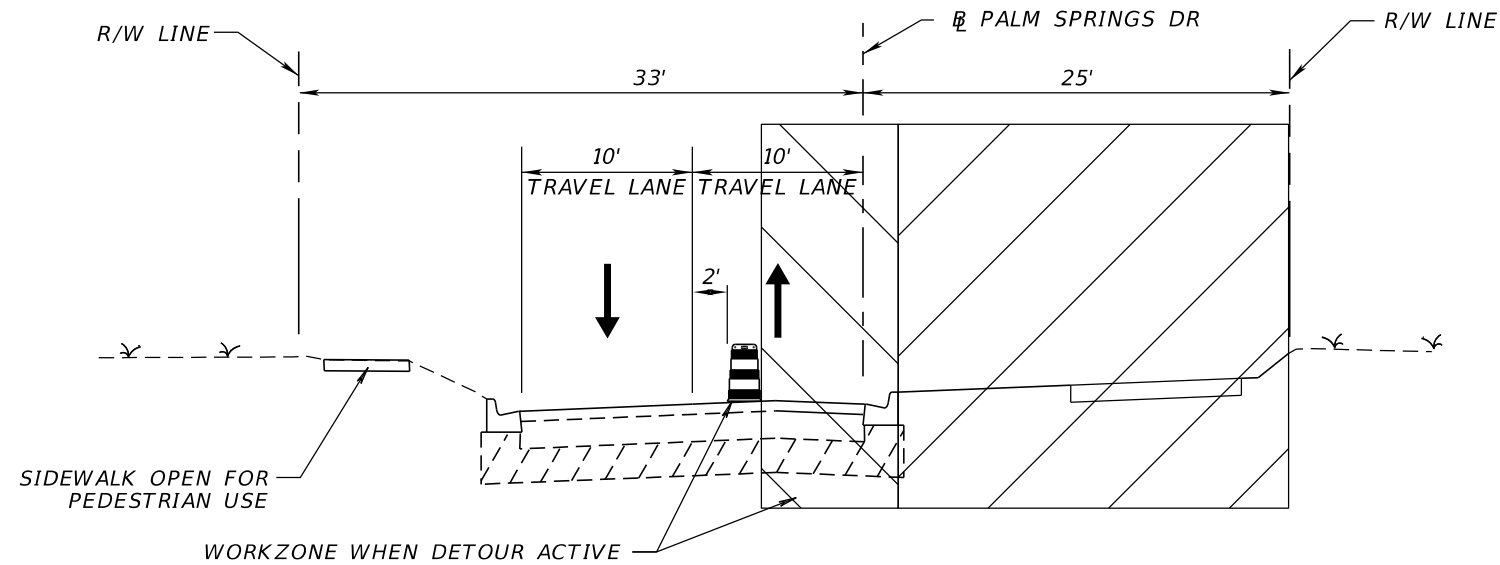


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

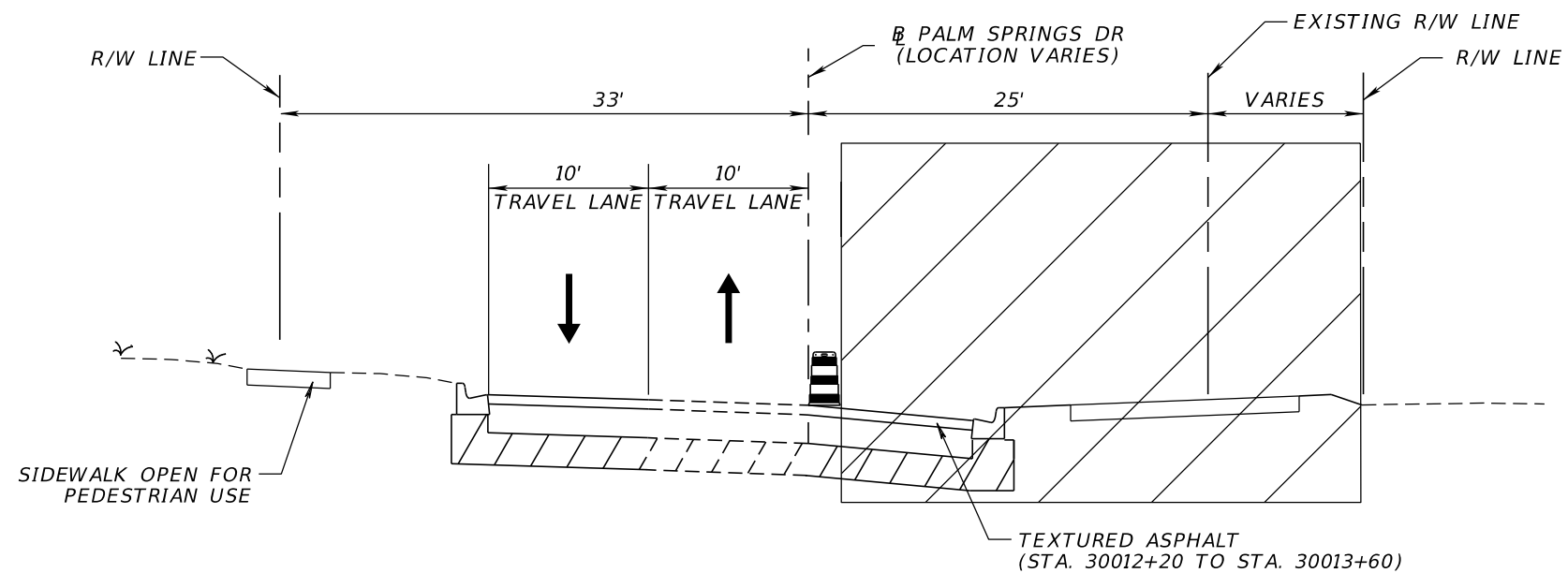
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

**TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS**


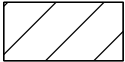

SHEET NO.
332



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)

-  CHANNELIZING DEVICE
-  WORK ZONE
-  WORK ZONE DURING OFF-PEAK DETOUR HOURS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

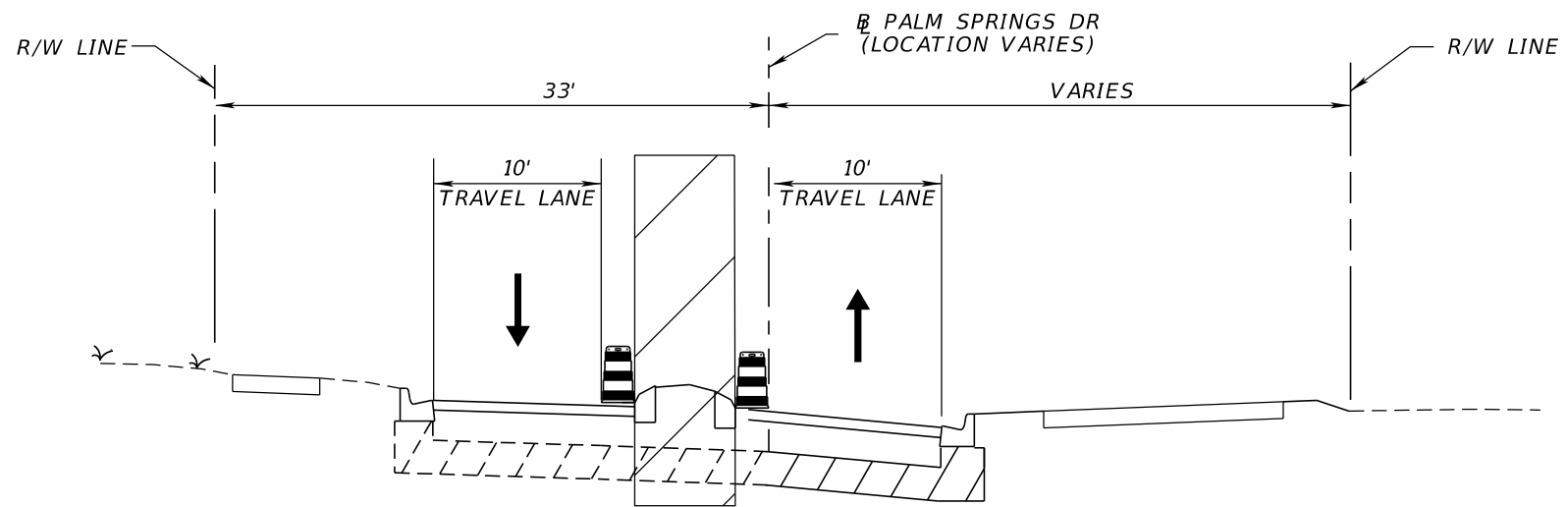


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.
 333



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

 CHANNELIZING DEVICE

 WORK ZONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



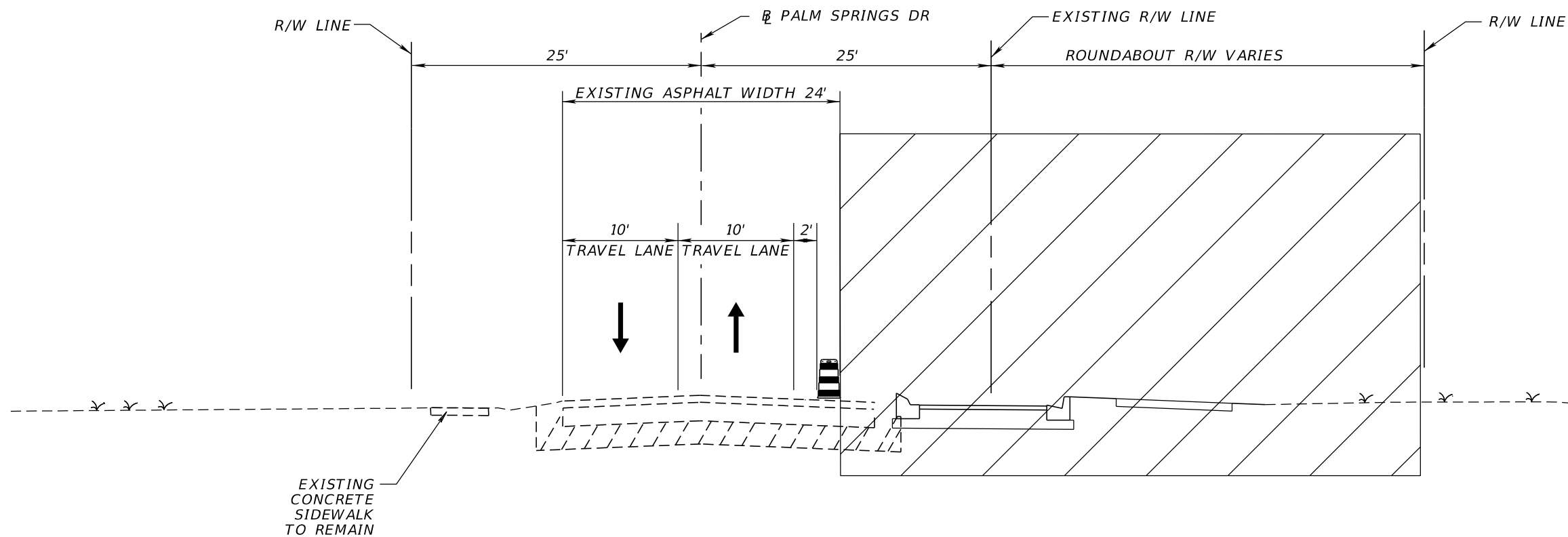
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.

334



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

 CHANNELIZING DEVICE

 WORK ZONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

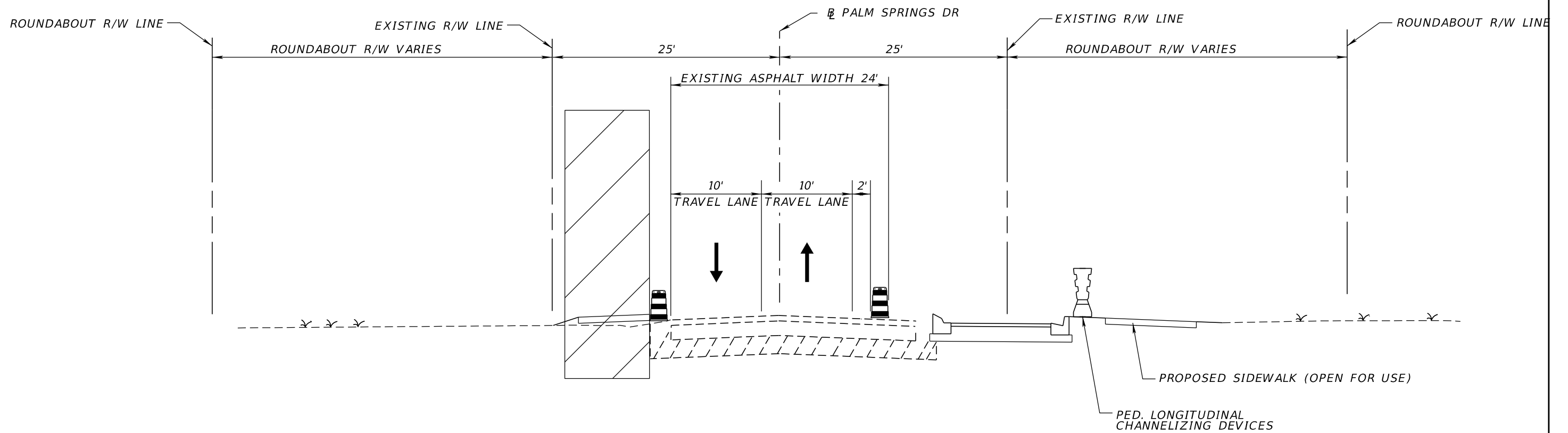


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

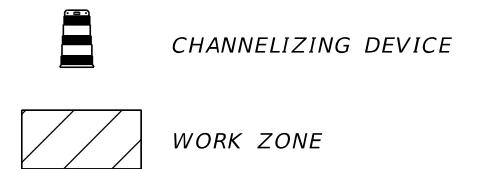
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.
 335



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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

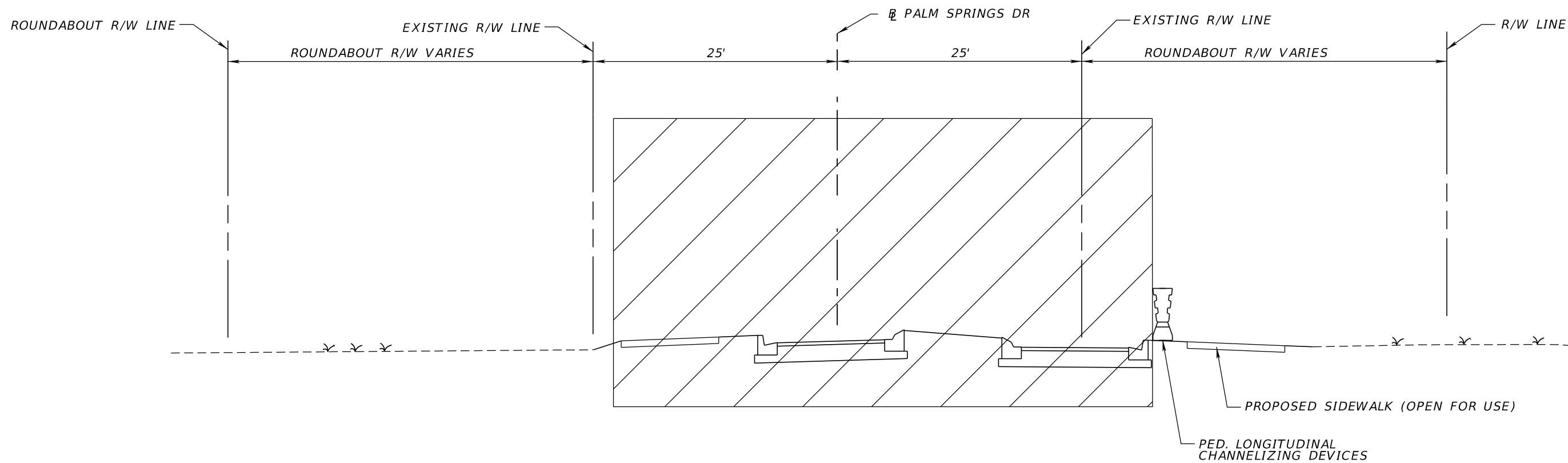


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

SHEET NO.
 336



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

 WORK ZONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

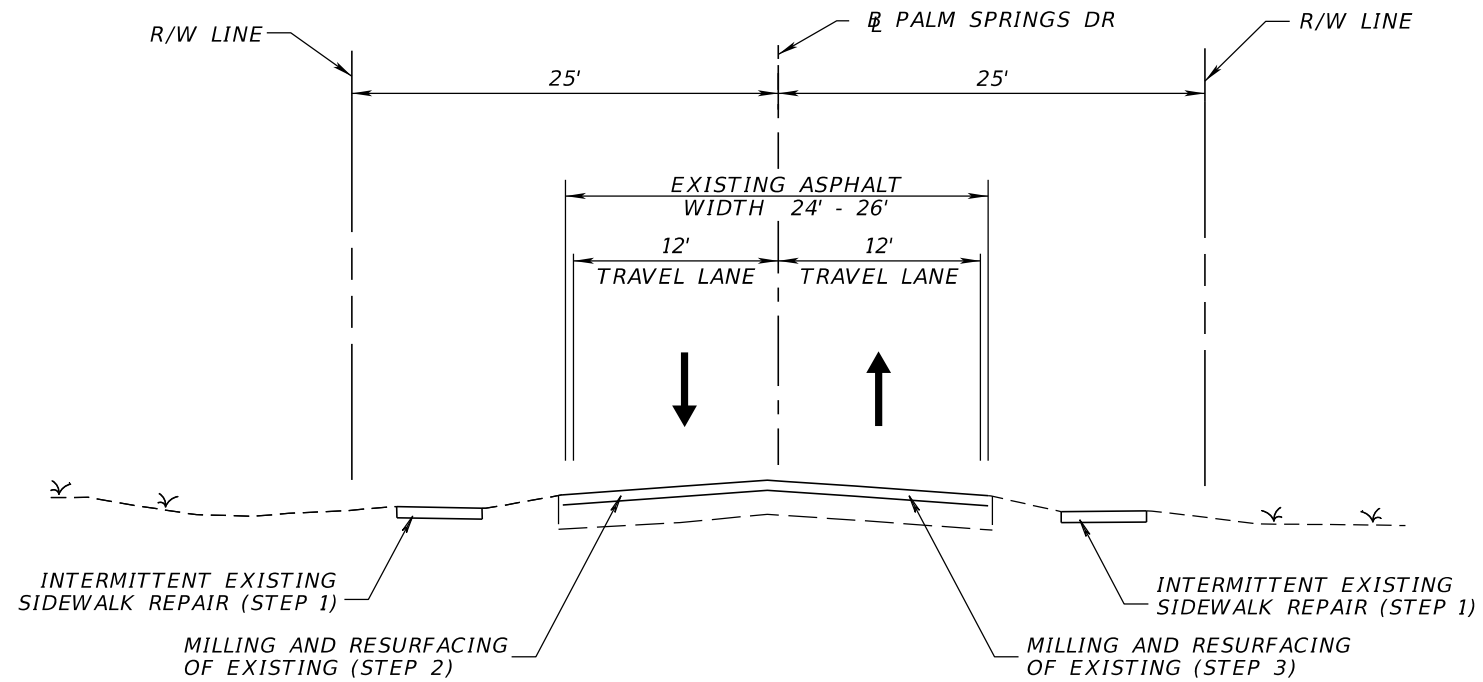


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

TEMPORARY TRAFFIC CONTROL
 TYPICAL SECTIONS

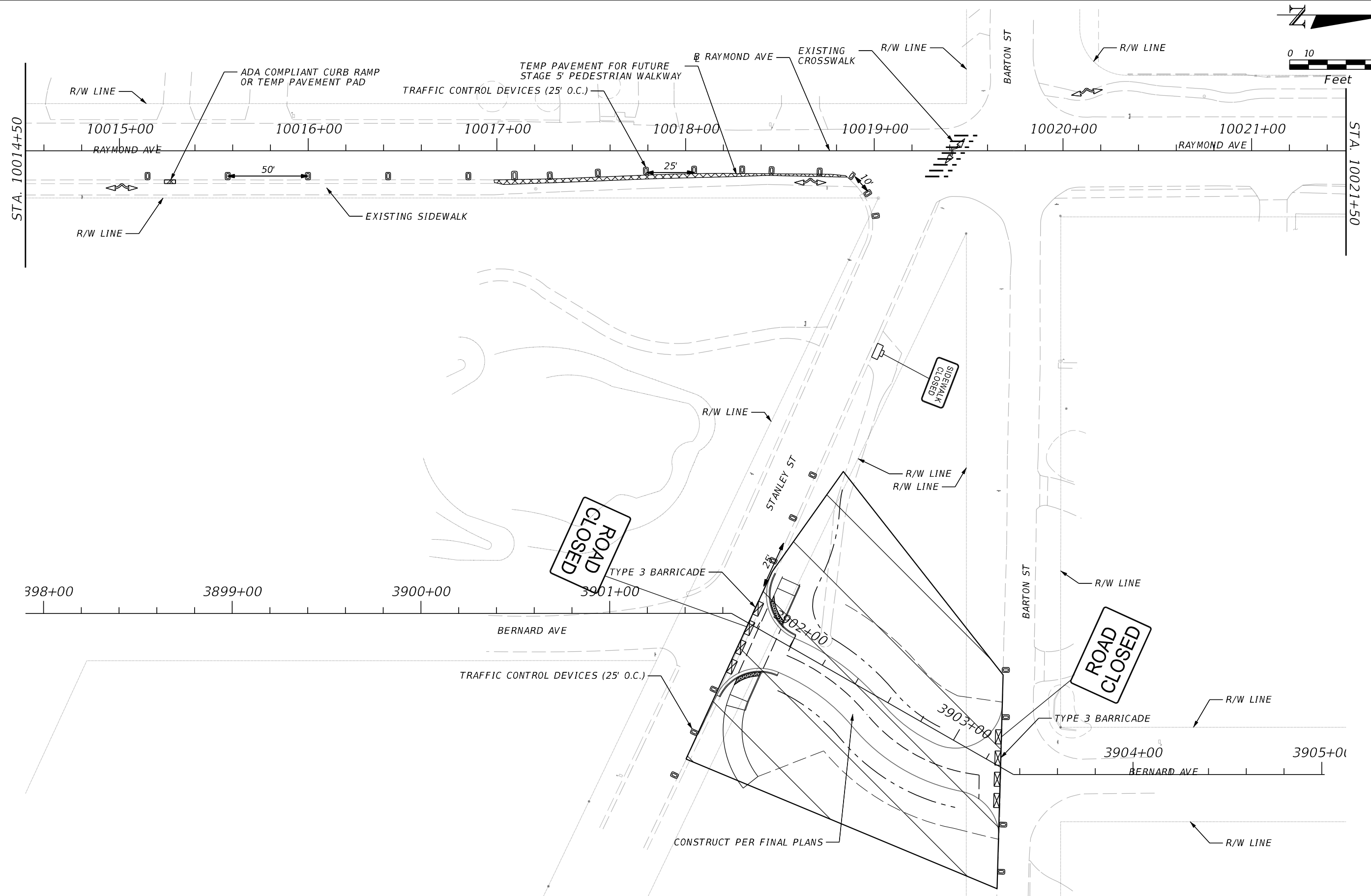
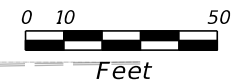
SHEET NO.
 337



TYPICAL SECTION
 PALM SPRINGS DRIVE - PHASE 3 STAGE 3 STEPS 1 THRU 3
 STA. 30030+54 TO STA. 30056+70



REVISIONS				MARK W. SUAREZ, P.E. LICENSE NO. 76977 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. 338
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH	01907084		
					ST., PALM SPRINGS DR.			



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

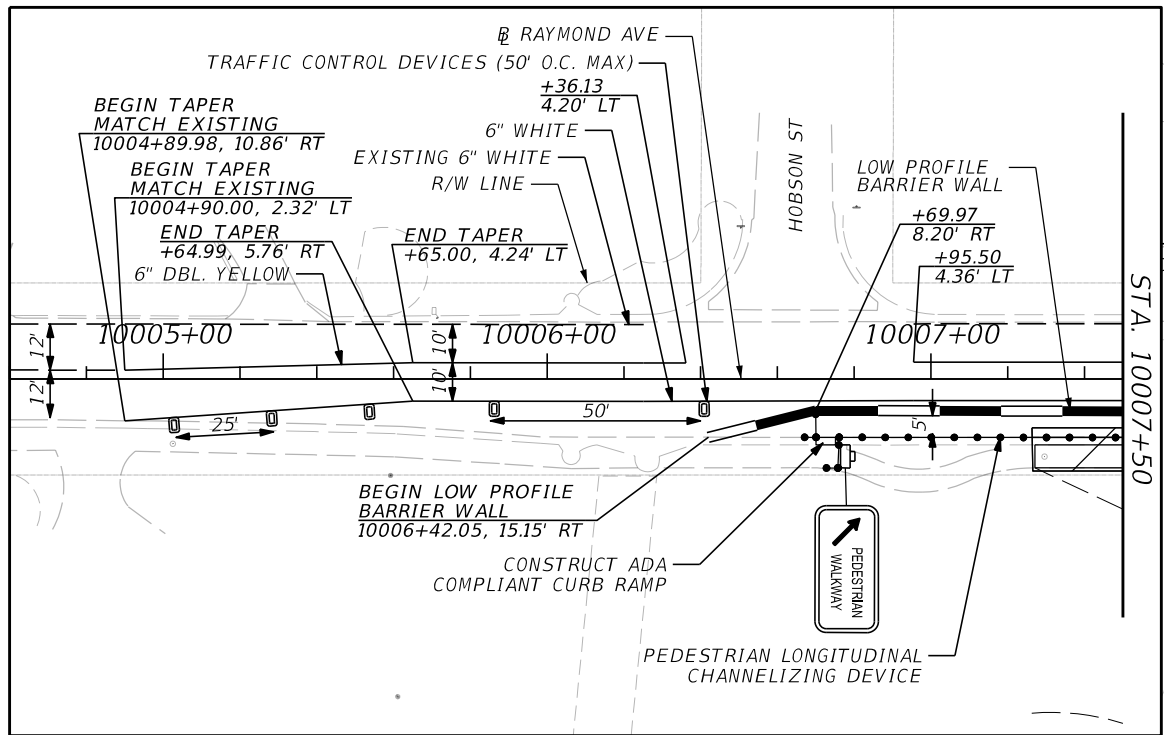
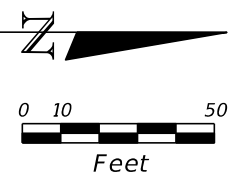
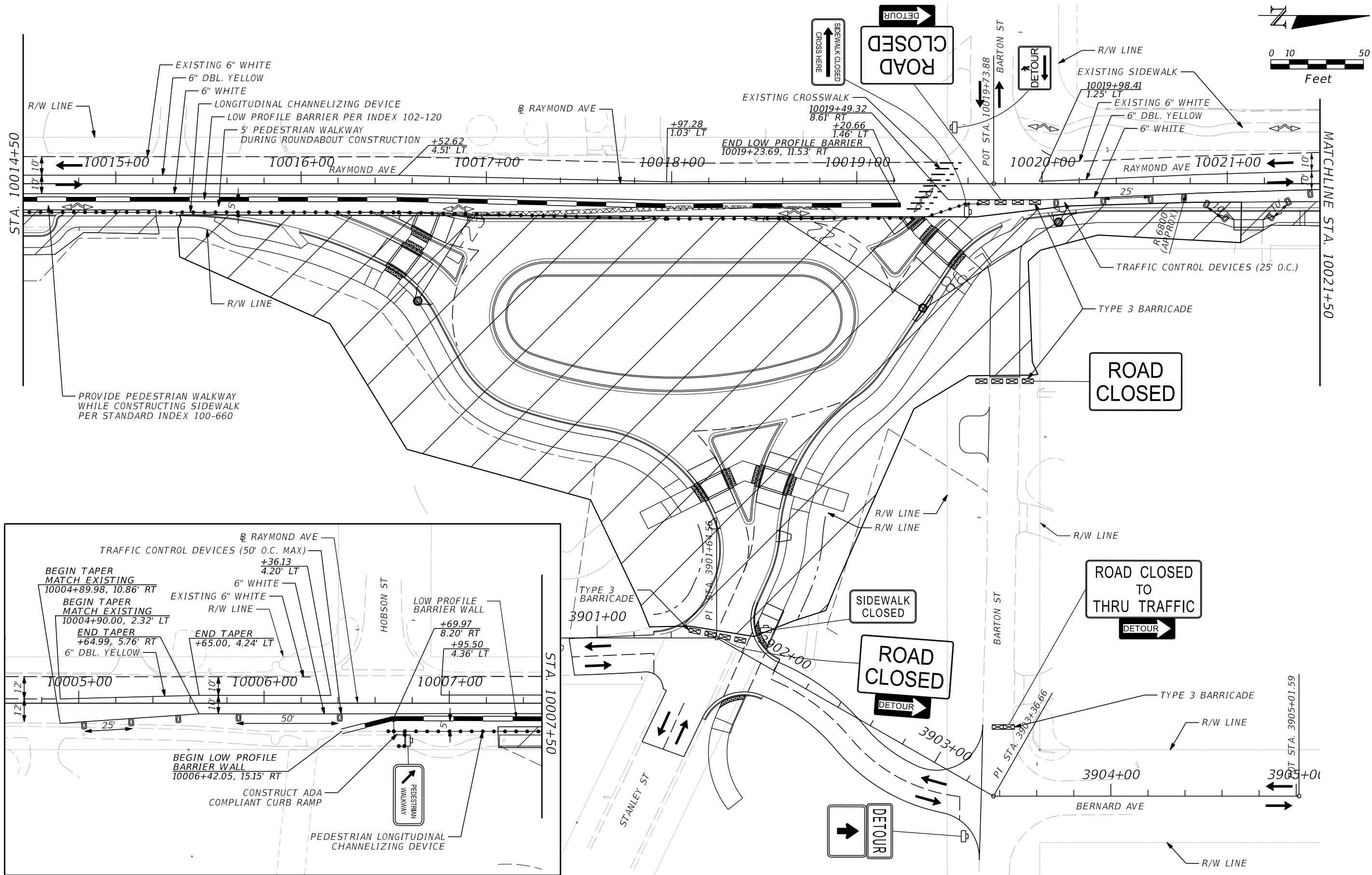


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

**RAYMOND AVENUE
 PHASE 1 STAGE 0**

SHEET NO.
339



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

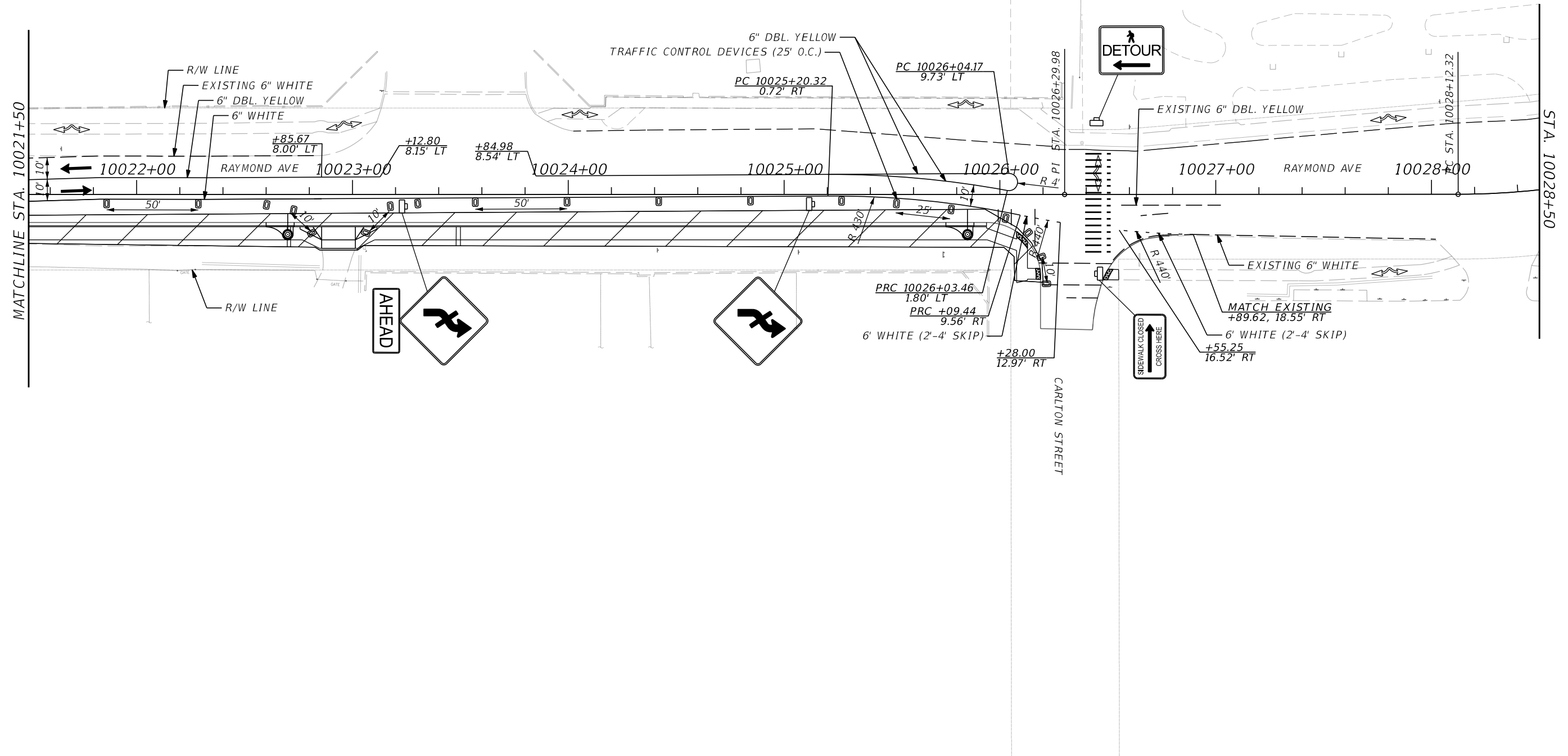
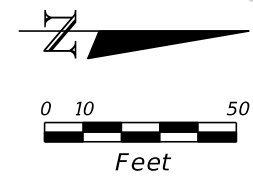


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

RAYMOND AVENUE
 PHASE 1 STAGE 1

SHEET NO.
 340



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
 341

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;

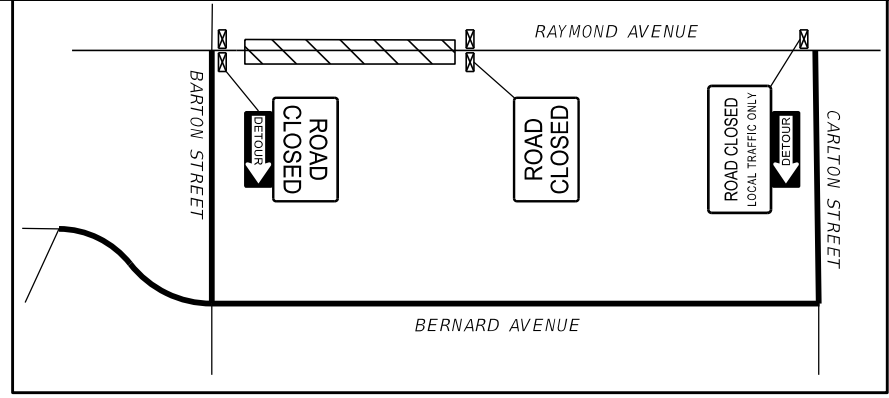
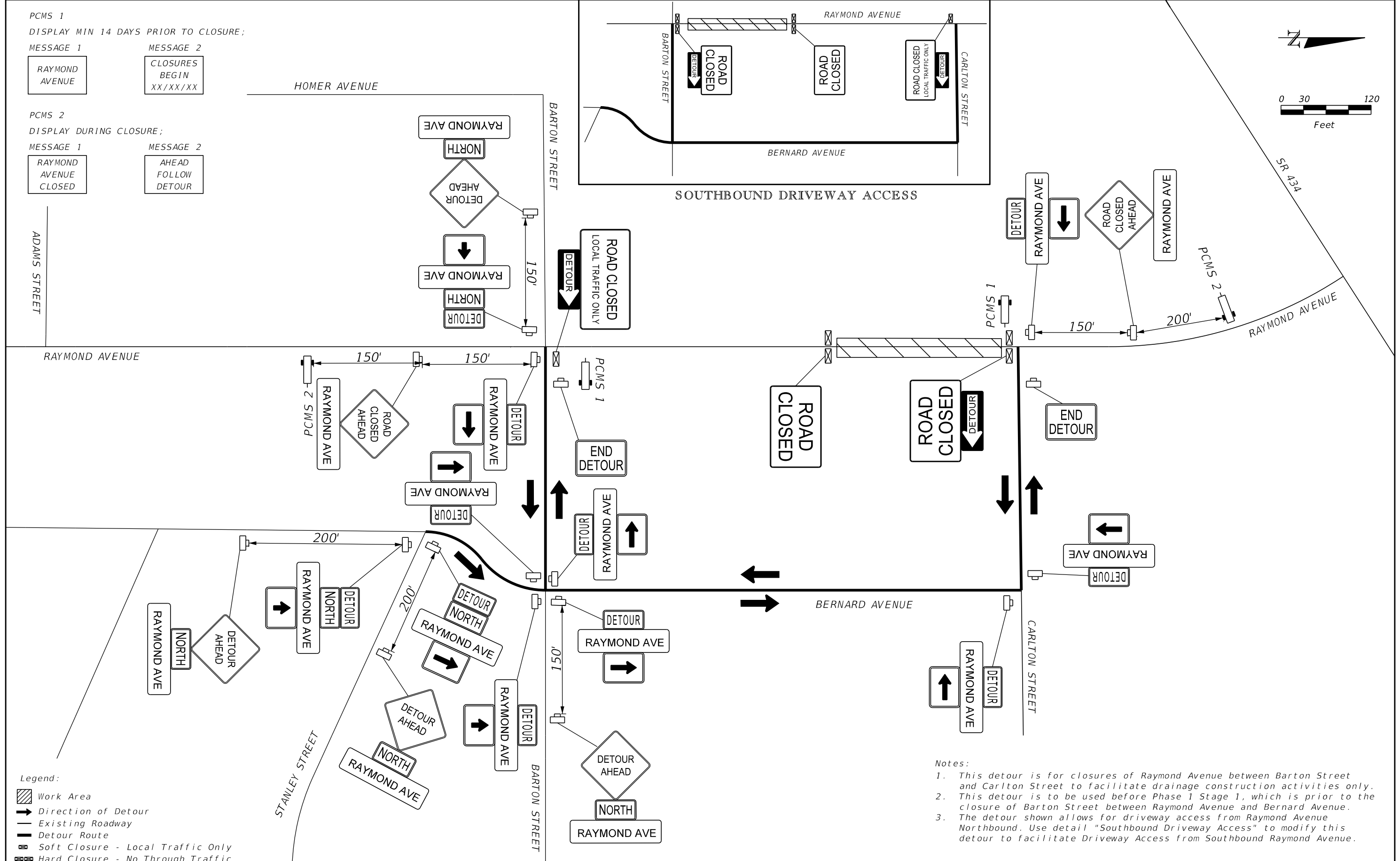
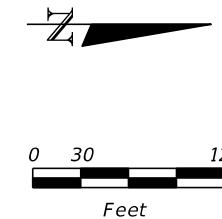
MESSAGE 1
 RAYMOND AVENUE

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 Phase 1 Stage 1, which is prior to the closure 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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

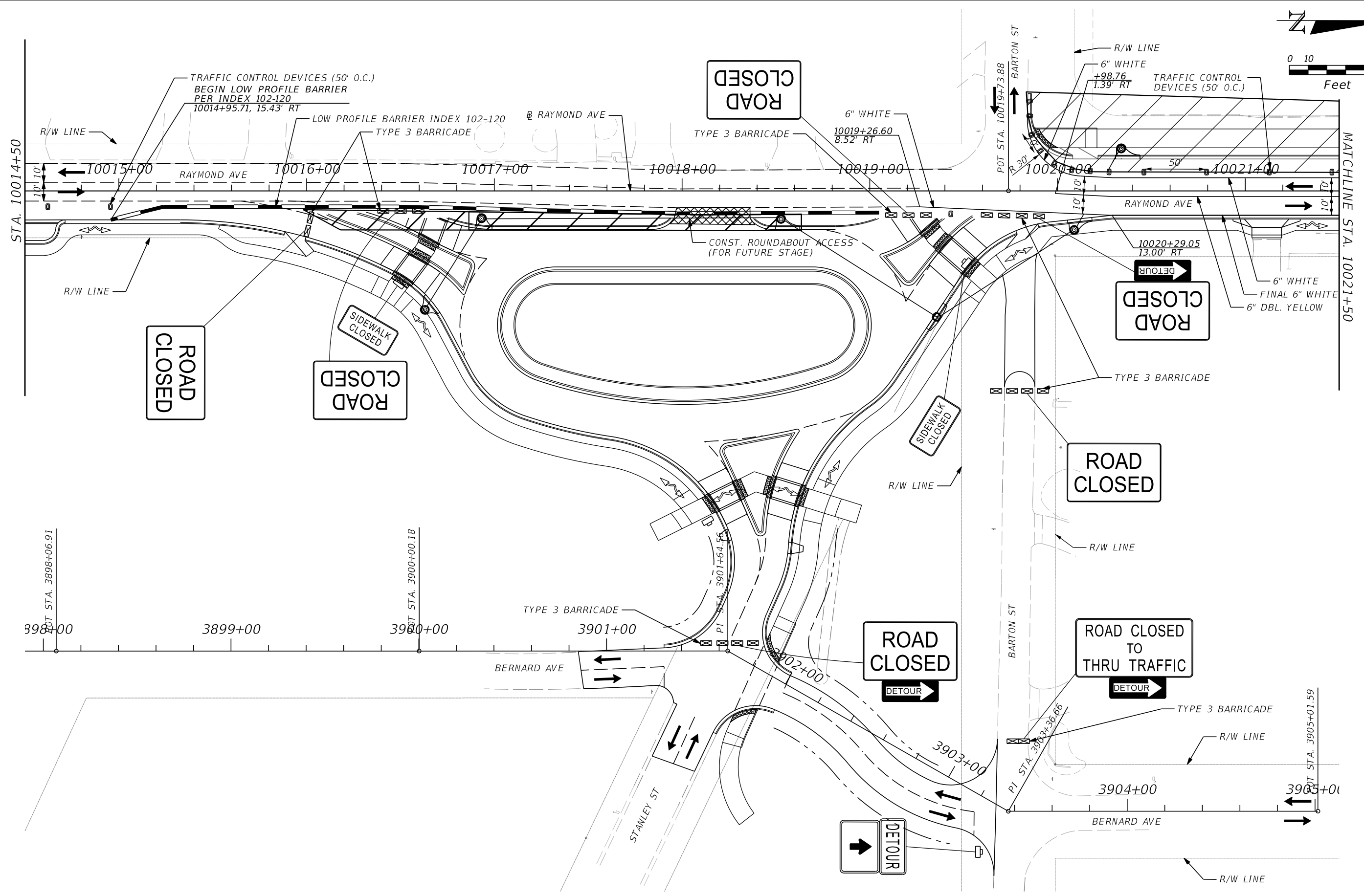
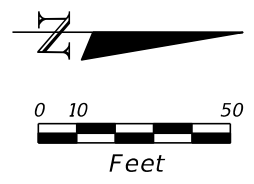


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

PHASE 1 STAGE 1
 RAYMOND AVENUE
 DETOUR 1

SHEET NO.
 342



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

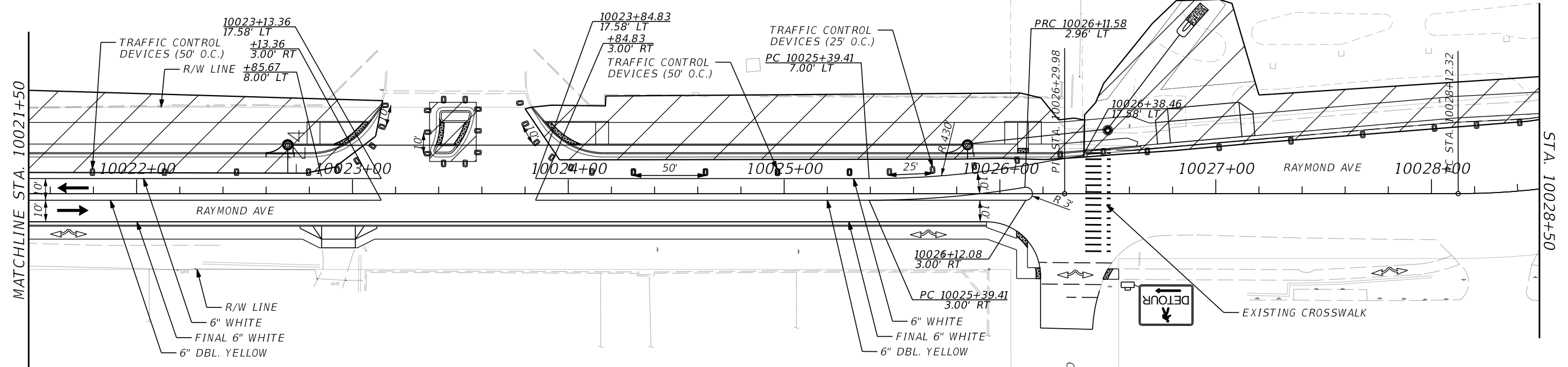
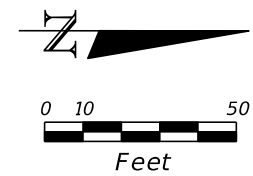


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

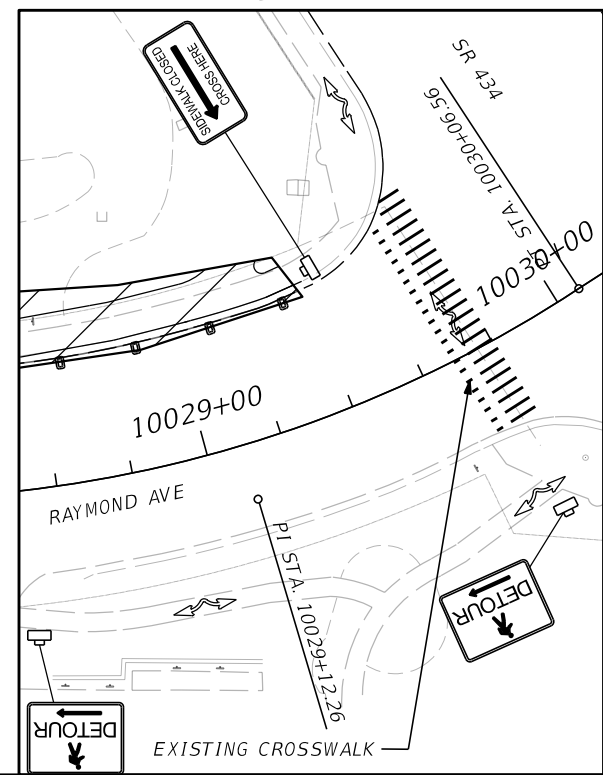
RAYMOND AVENUE
 PHASE 1 STAGE 2

SHEET NO.
 343

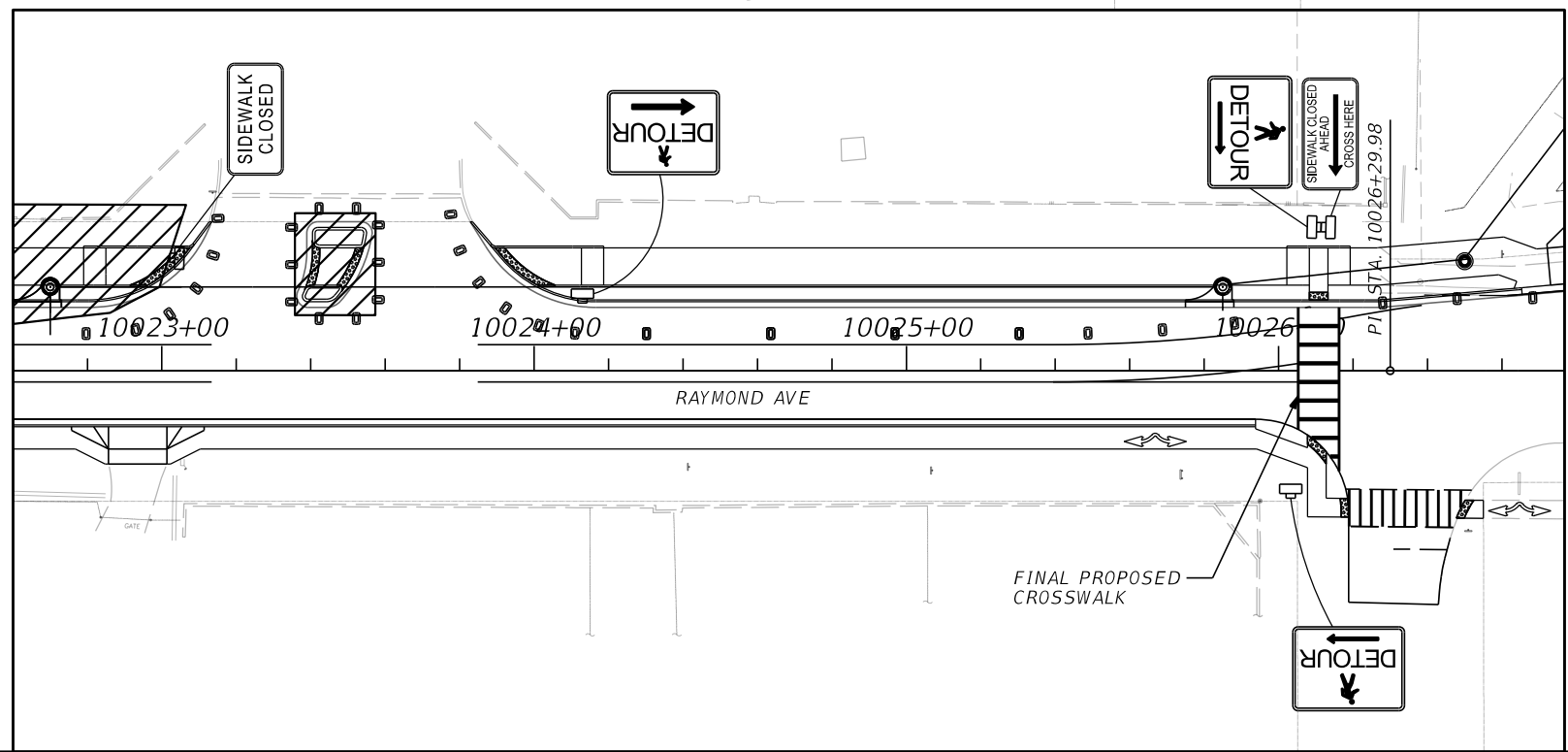


PEDESTRIAN DETOUR

STEP 1



STEP 2



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

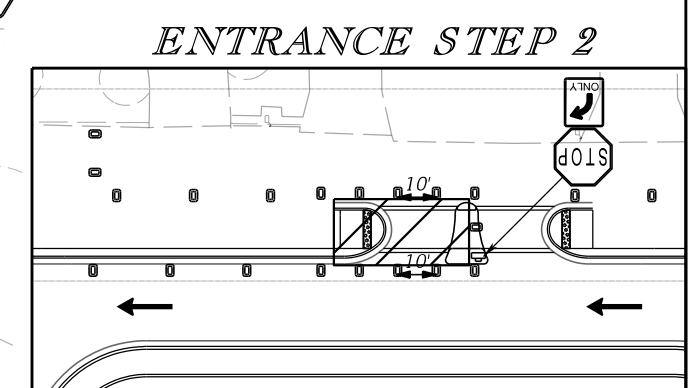
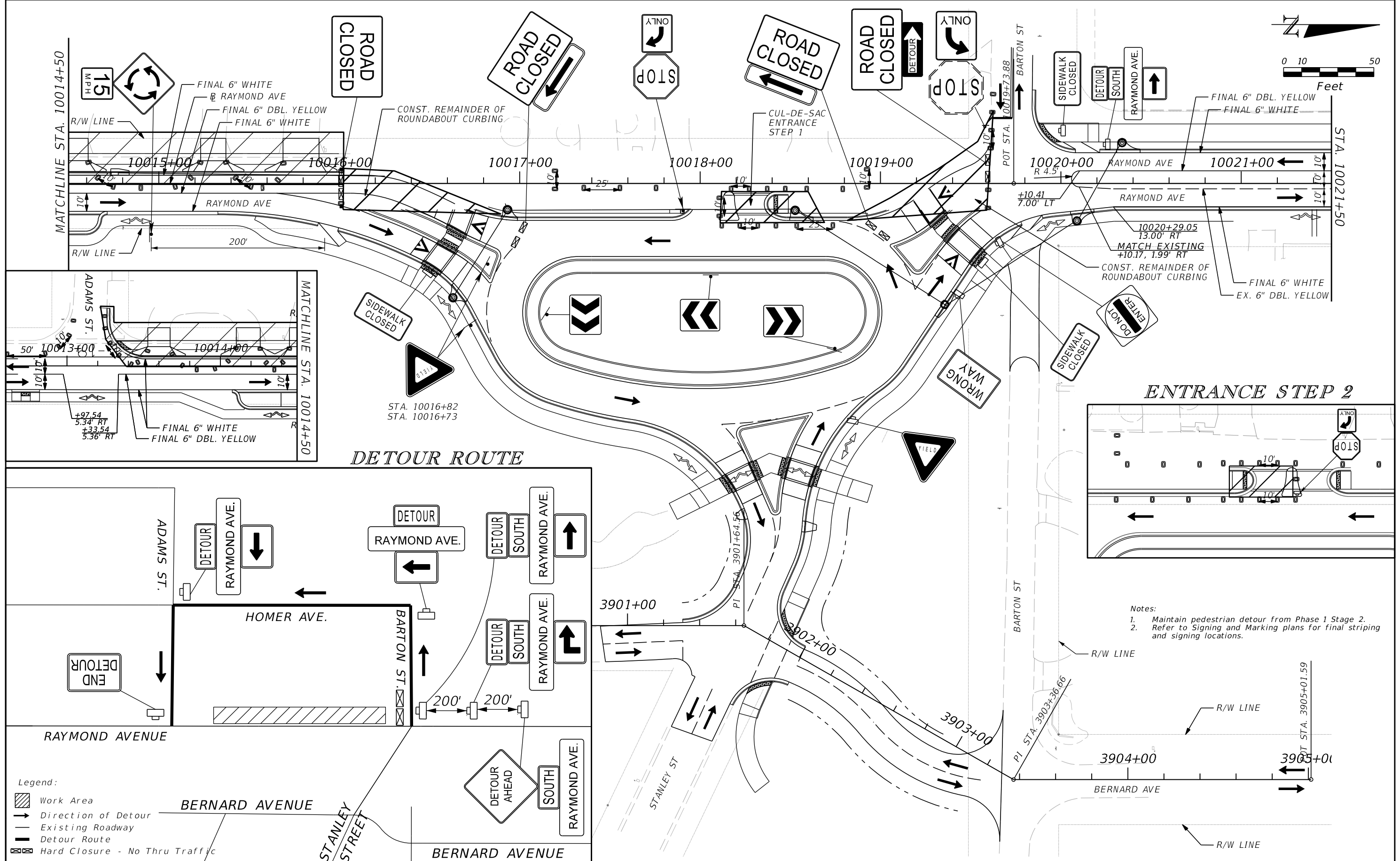
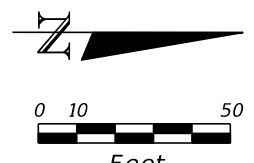


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

RAYMOND AVENUE
 PHASE 1 STAGE 2

SHEET NO.
 344



- Notes:
- Maintain pedestrian detour from Phase 1 Stage 2.
 - Refer to Signing and Marking plans for final striping and signing locations.

Legend:

- Work Area
- Direction of Detour
- Existing Roadway
- Detour Route
- Hard Closure - No Thru Traffic

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

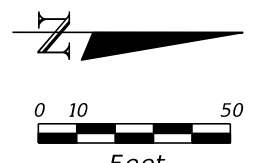
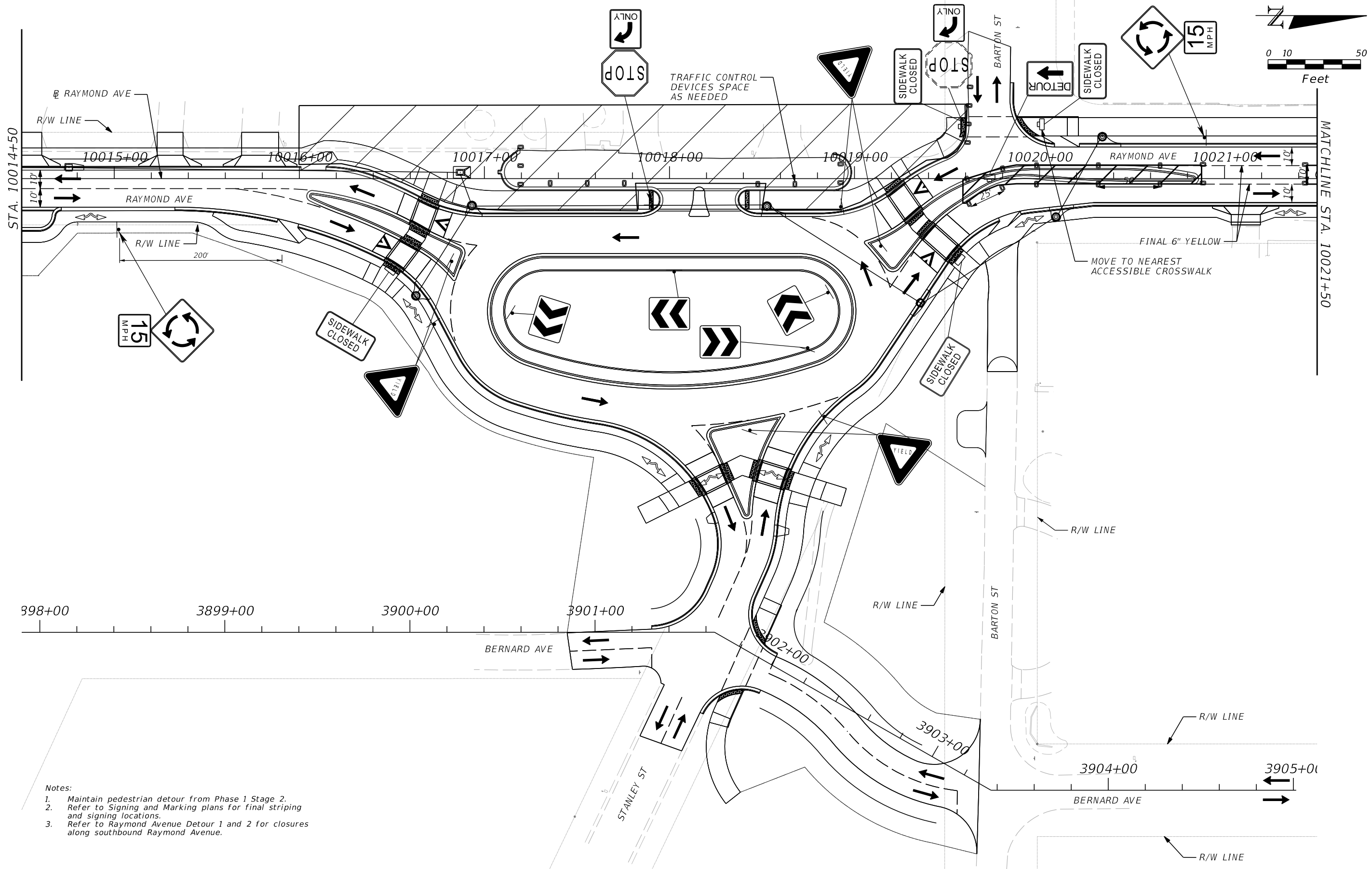


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

RAYMOND AVENUE
 PHASE 1 STAGE 3
 SHORT TERM DETOUR

SHEET NO.
 345



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

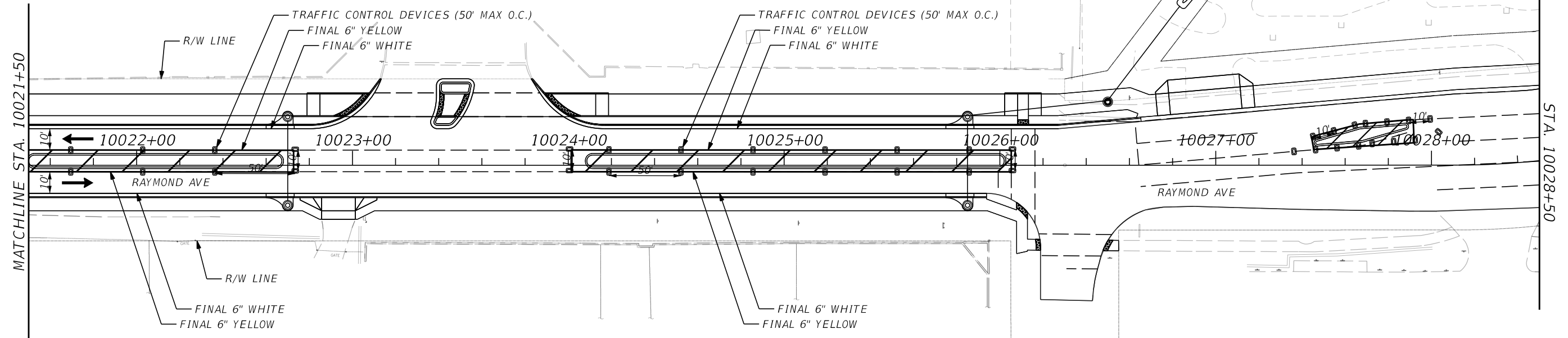
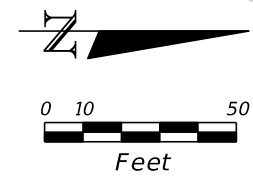


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

RAYMOND AVENUE
 PHASE 1 STAGE 4

SHEET NO.
 346



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
 347

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;

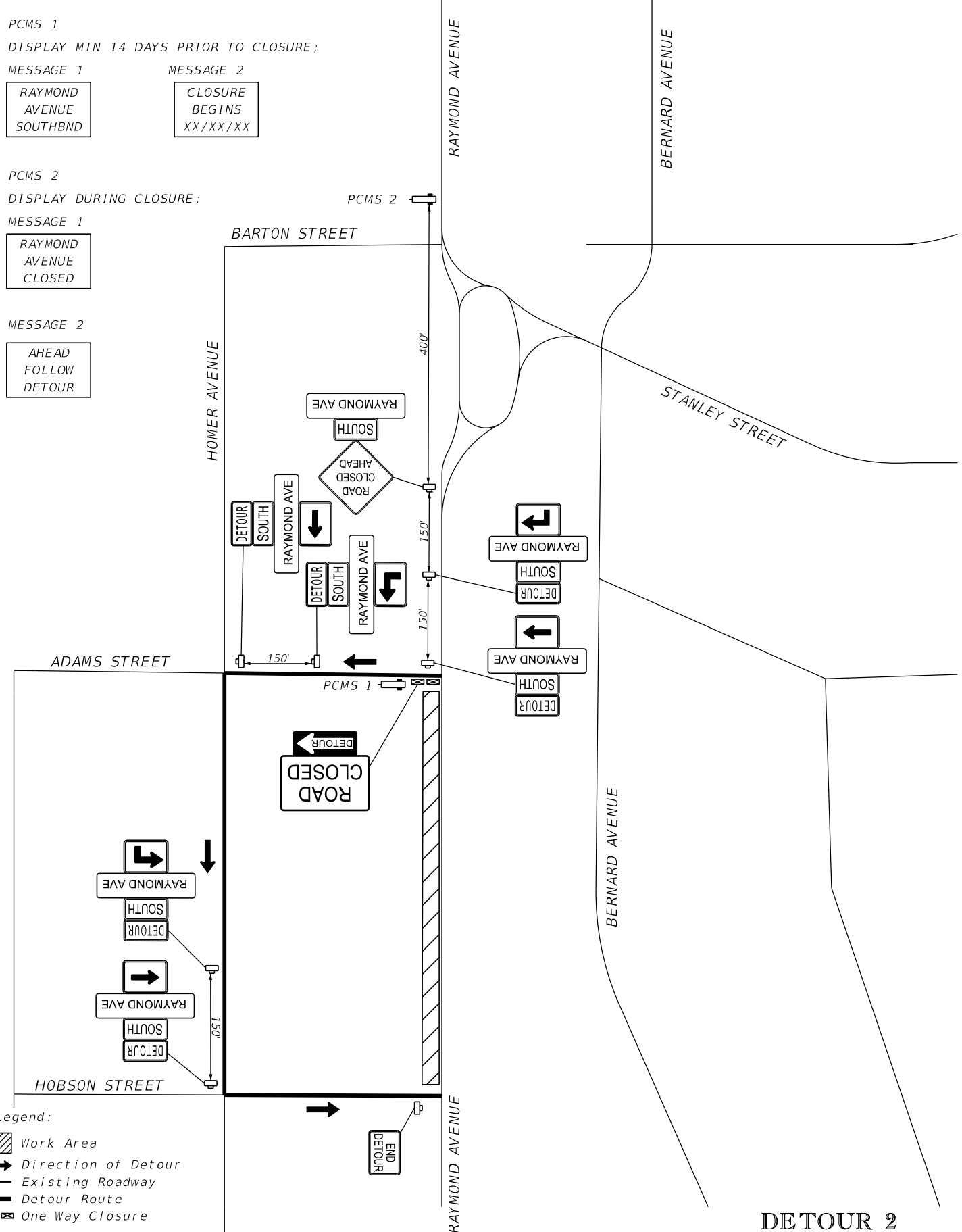
MESSAGE 1
 RAYMOND AVENUE SOUTHBOUND

MESSAGE 2
 CLOSURE BEGINS XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;

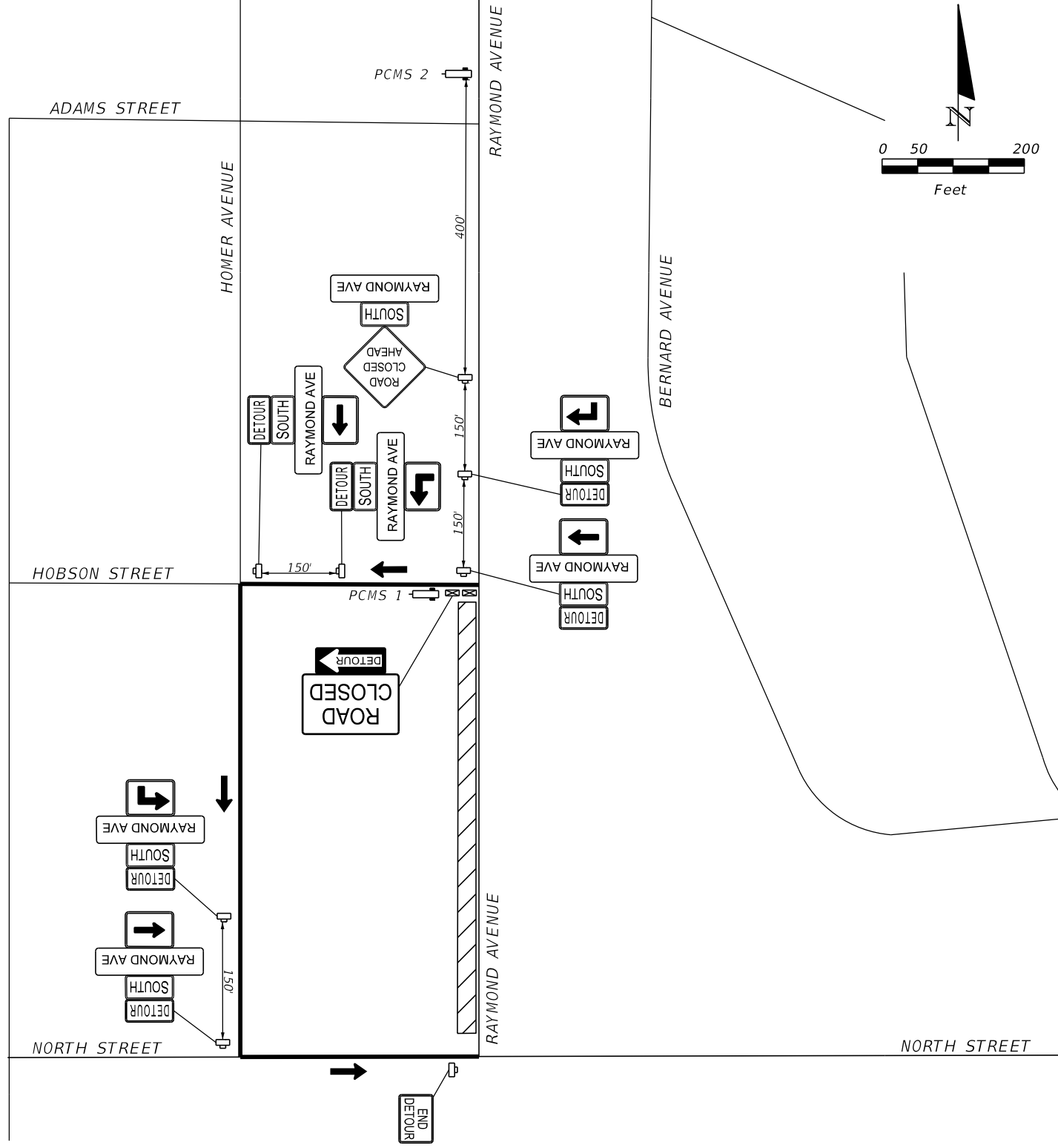
MESSAGE 1
 RAYMOND AVENUE CLOSED

MESSAGE 2
 AHEAD FOLLOW DETOUR



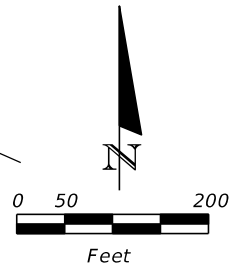
DETOUR 2

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

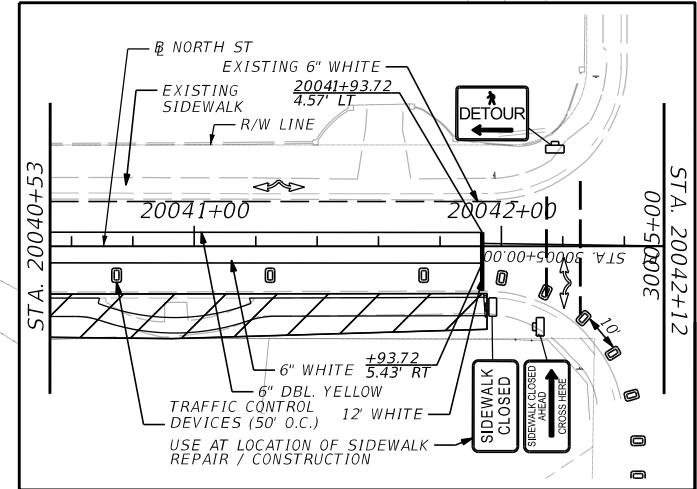
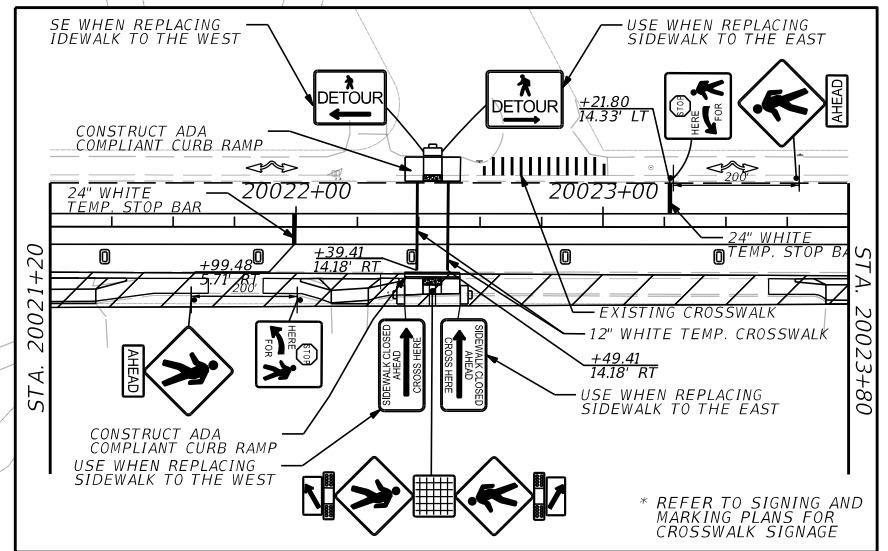
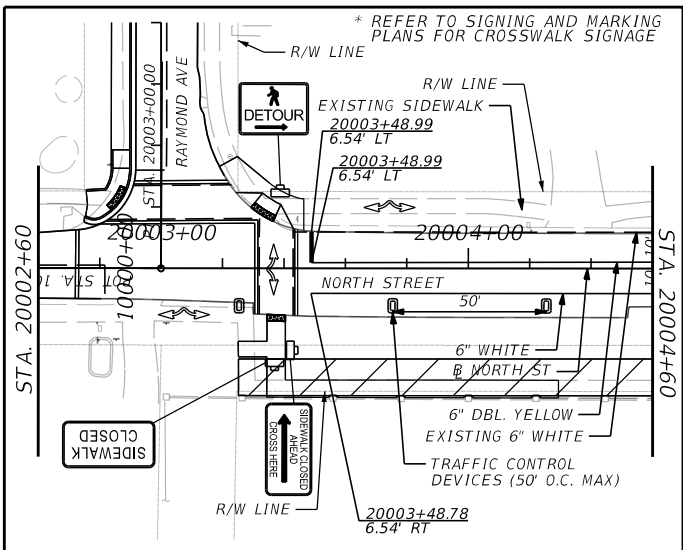
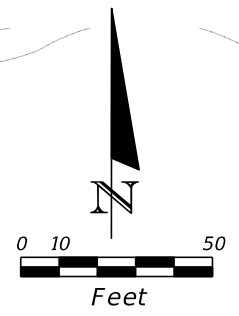
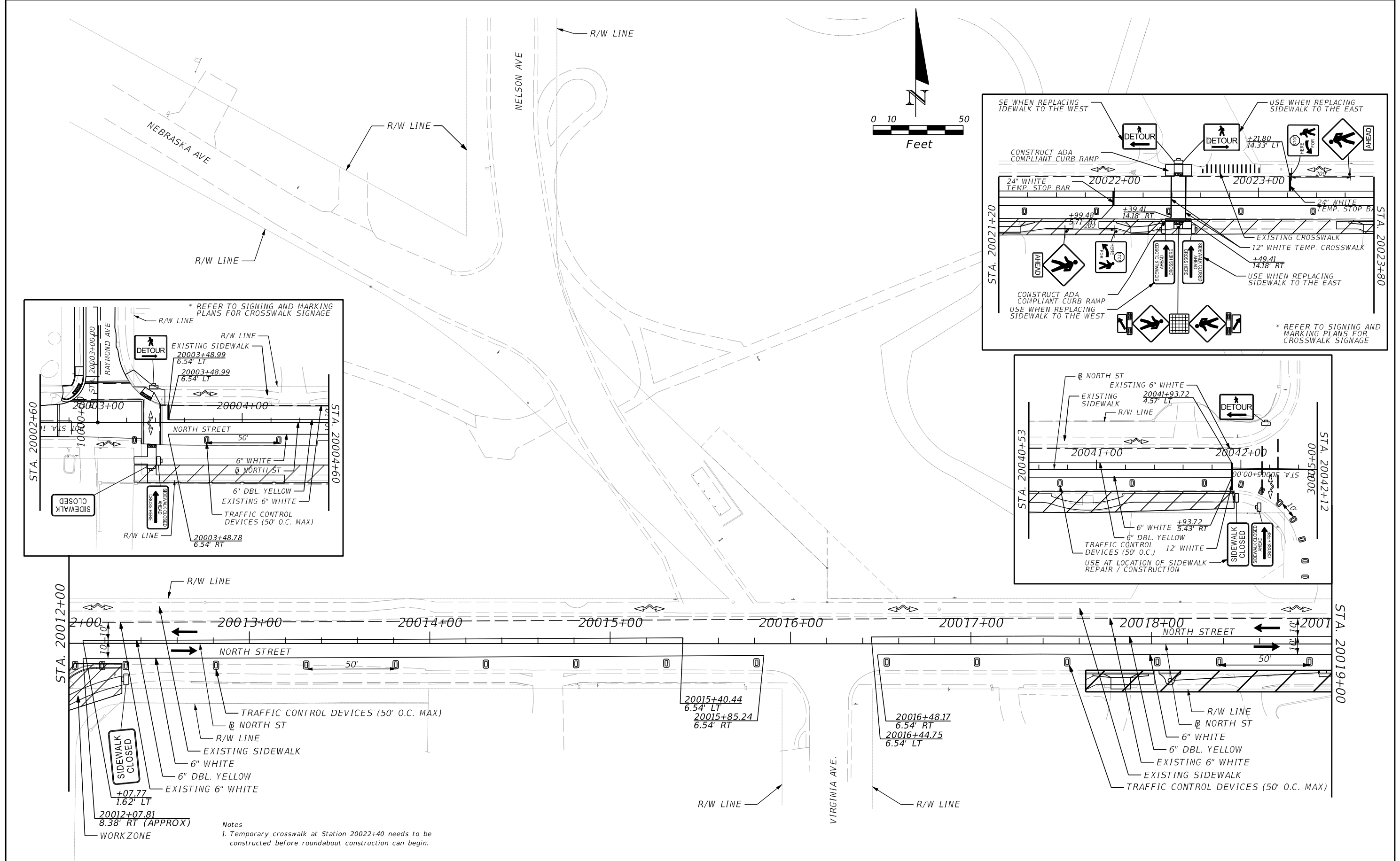
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST. SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



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.
 348



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

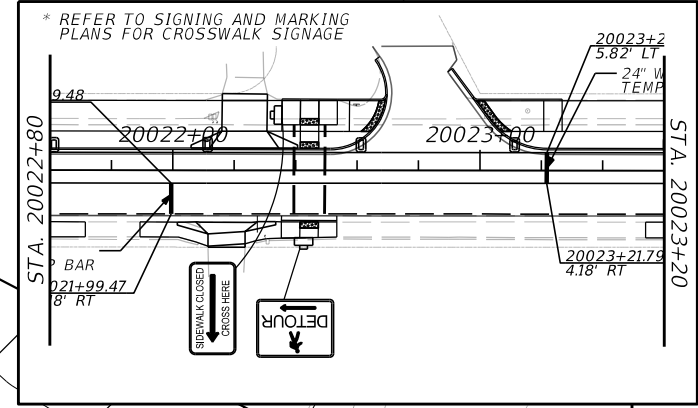
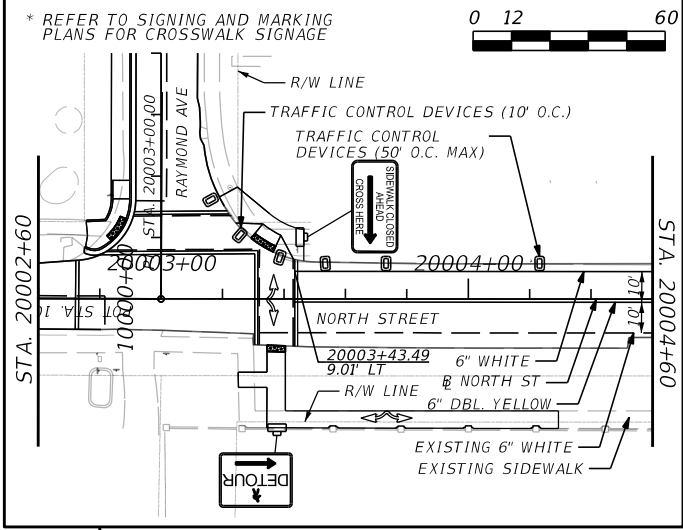
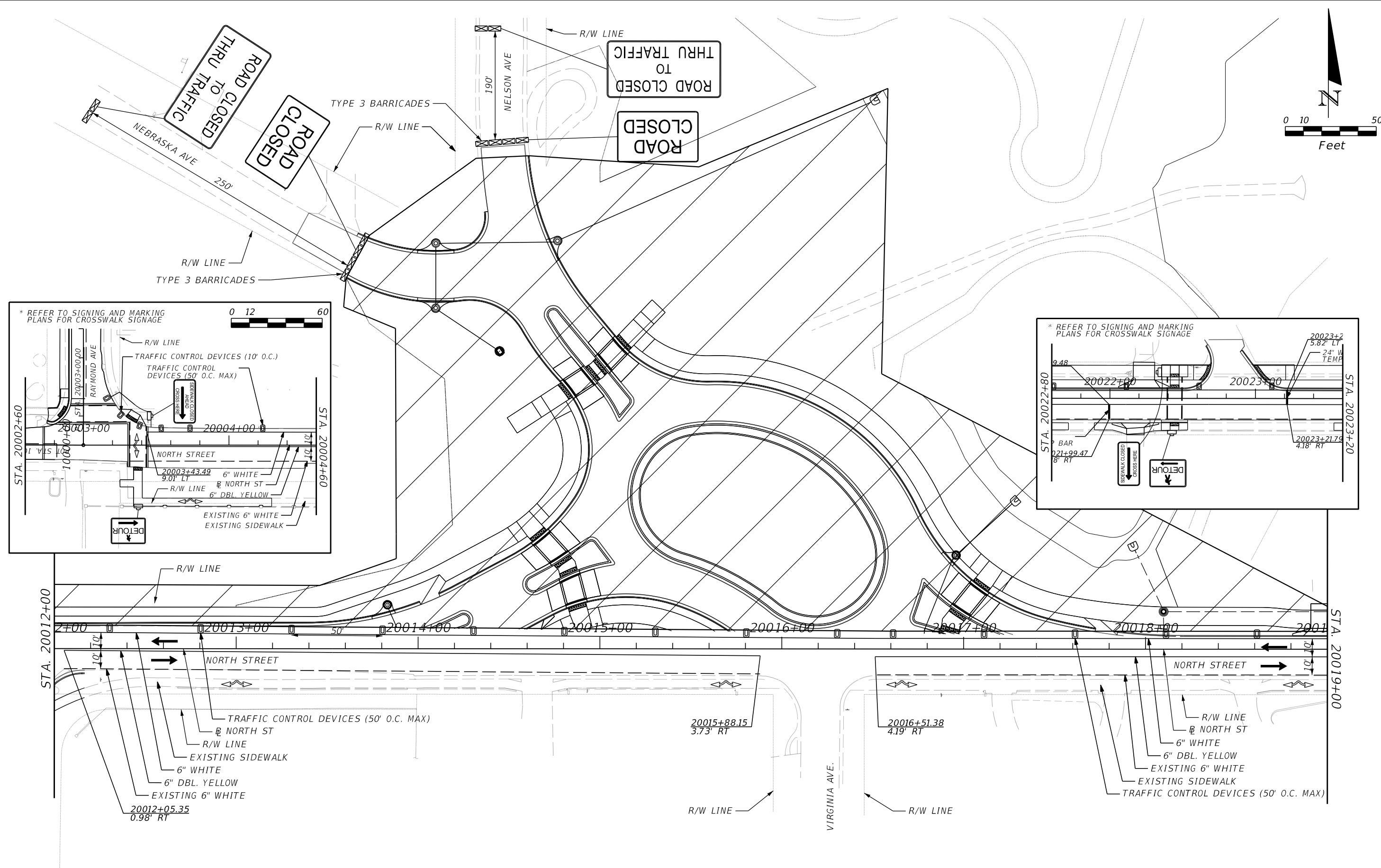
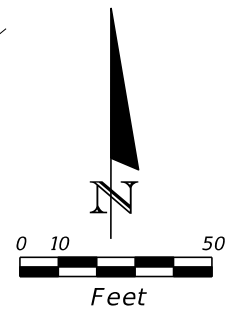


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

NORTH STREET
 PHASE 2 STAGE 1

SHEET NO.
 349



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
350

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
 AT NORTH STREET NO OUTLT

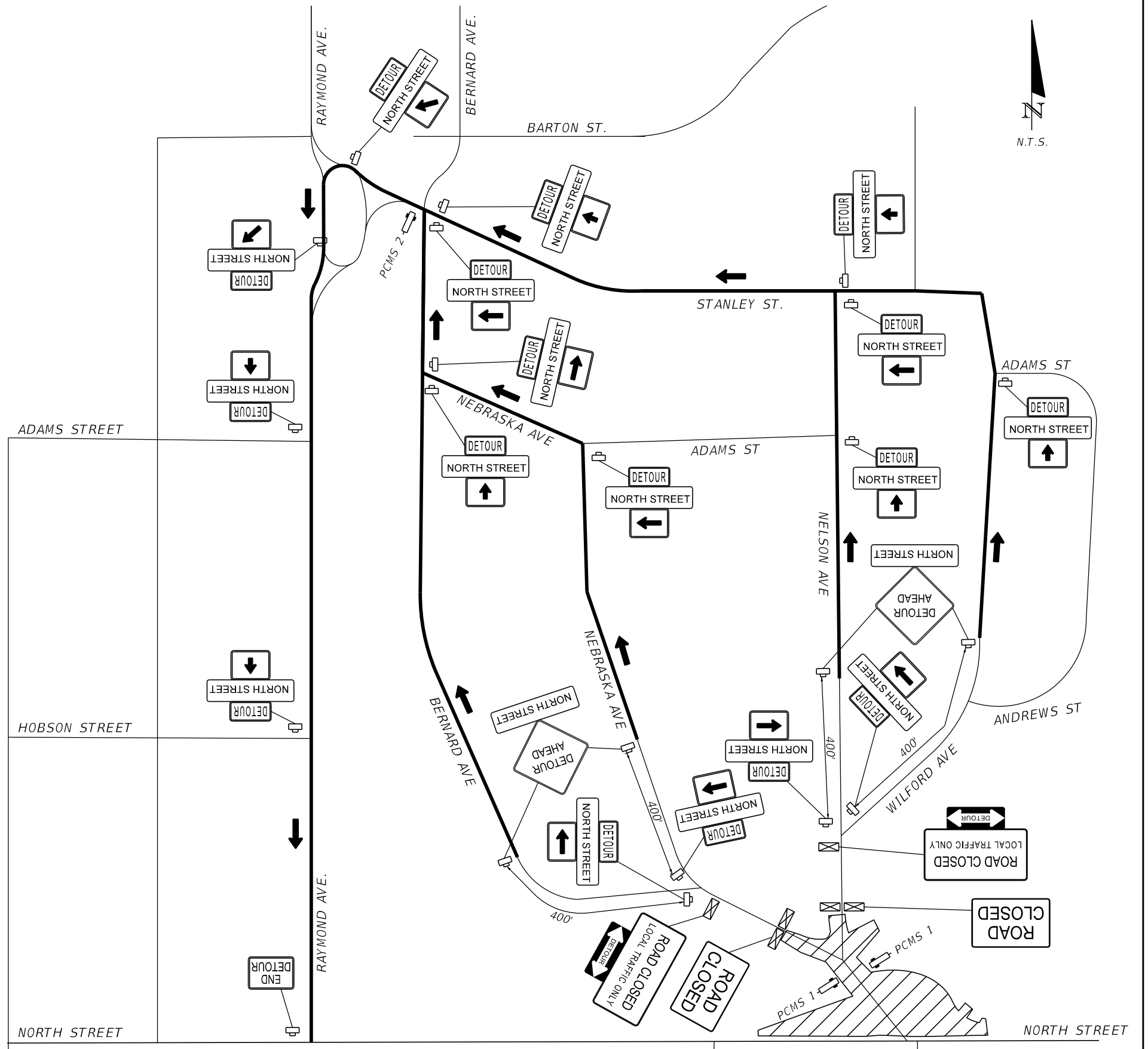
- Notes:
1. This detour is to be used during the Phase 2 Stage 2 North Street access closure for construction activities.
 2. Contractor may provide additional driveway/sidestreet detour signage as needed.

Legend:

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

I-4

I-4



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

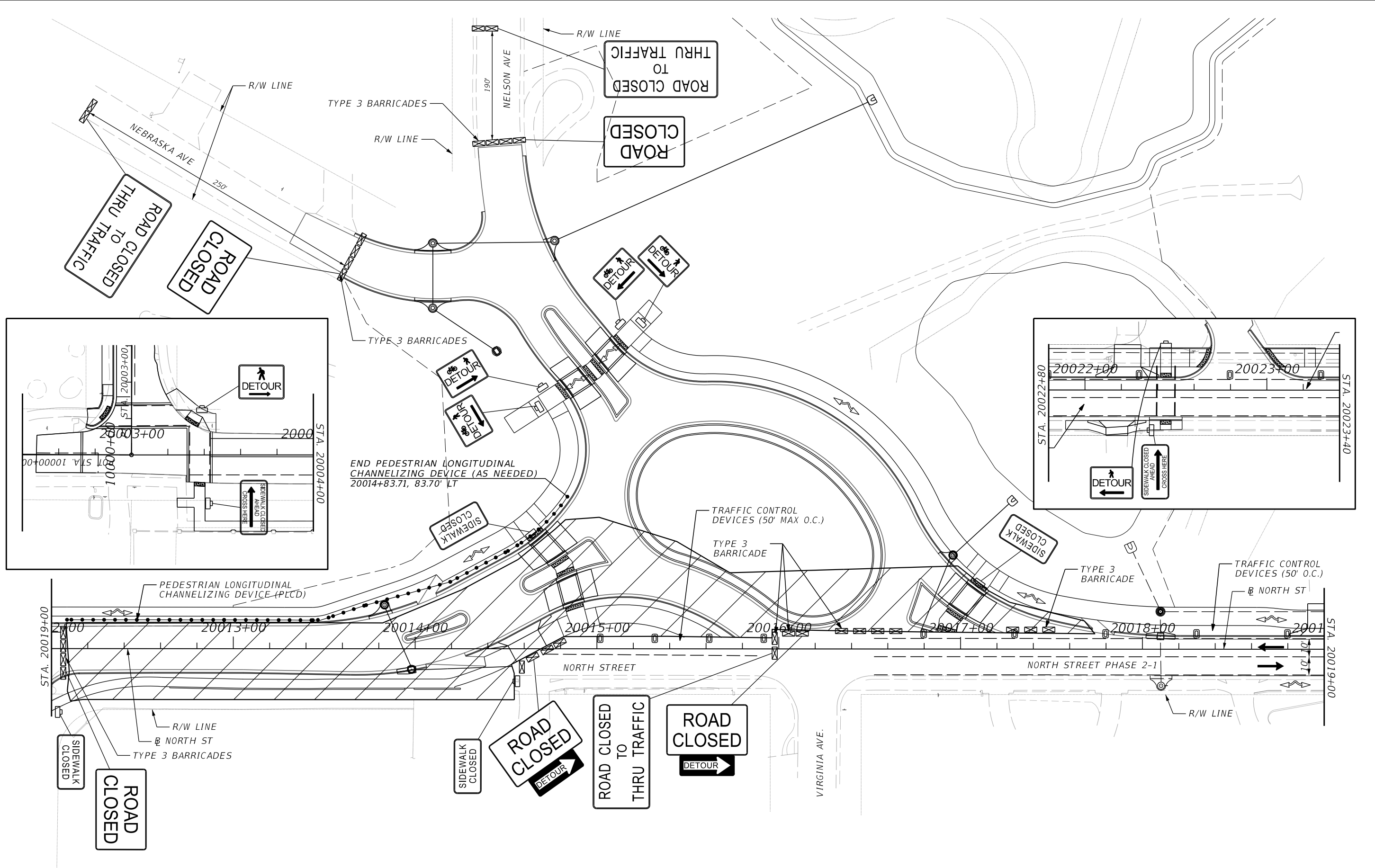


SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1	
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

PHASE 2 STAGE 2
 NORTH STREET
 DETOUR (1)

SHEET NO.

351



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

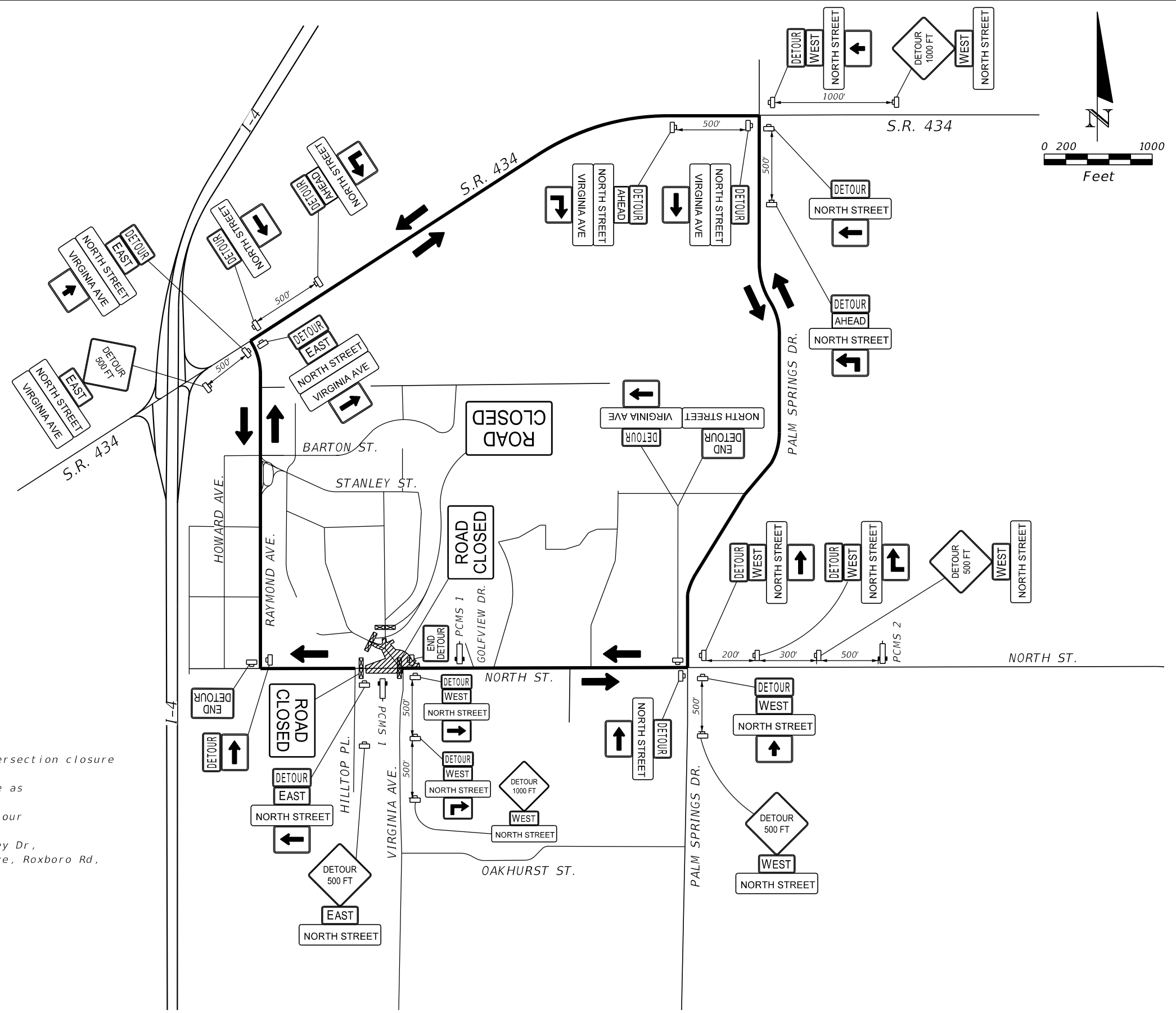
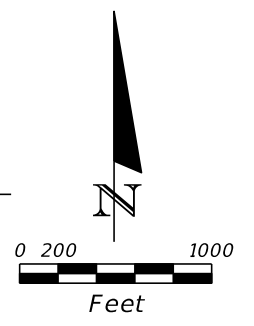
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

NORTH STREET
 PHASE 2 STAGE 3

SHEET NO.
 352

PCMS 1
 DISPLAY MIN ONE WEEK 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

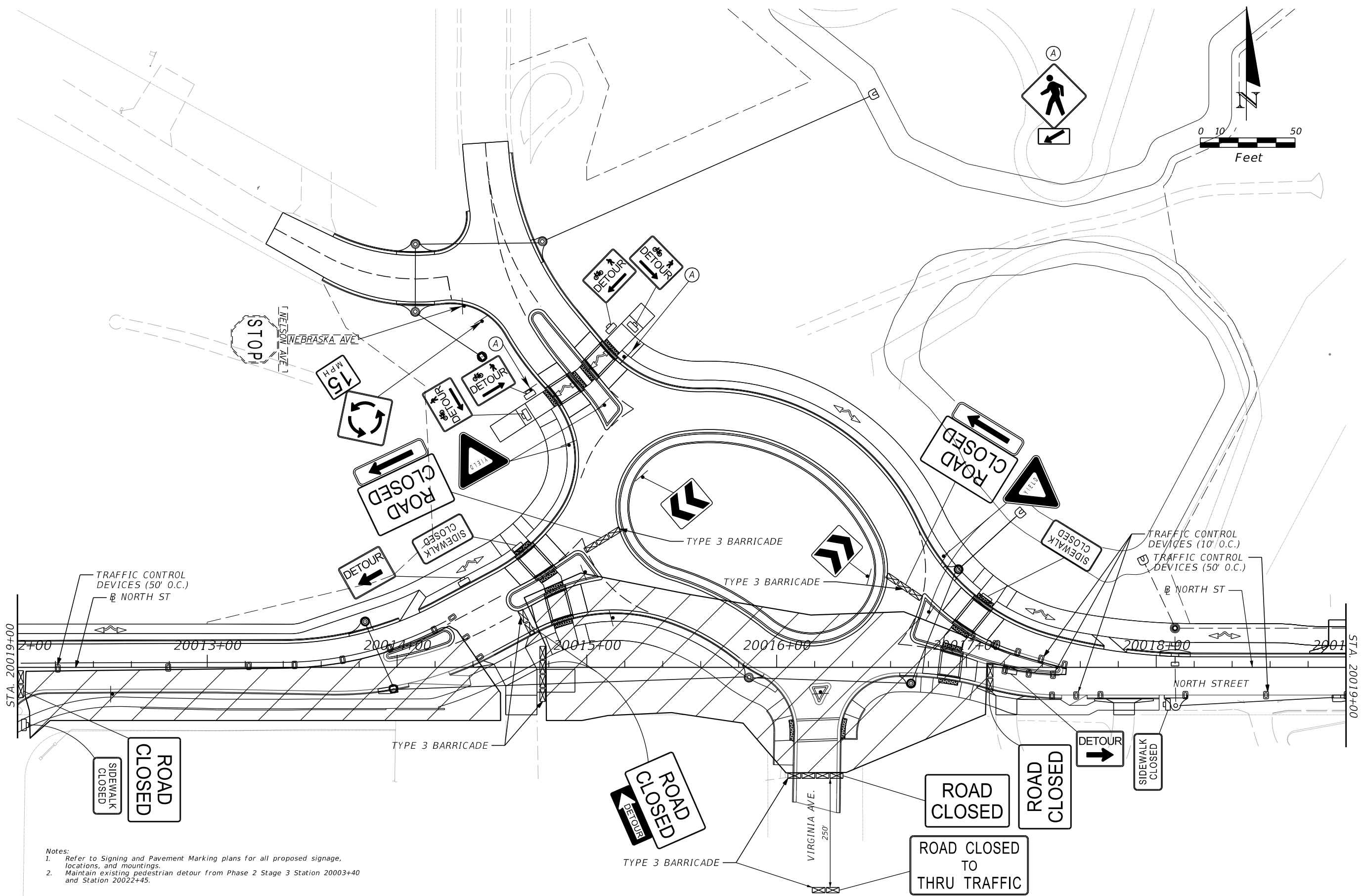
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

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.
 353



Notes:
 1. Refer to Signing and Pavement Marking plans for all proposed signage, locations, and mountings.
 2. Maintain existing pedestrian detour from Phase 2 Stage 3 Station 20003+00 and Station 20022+45.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

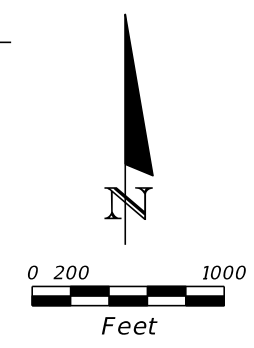
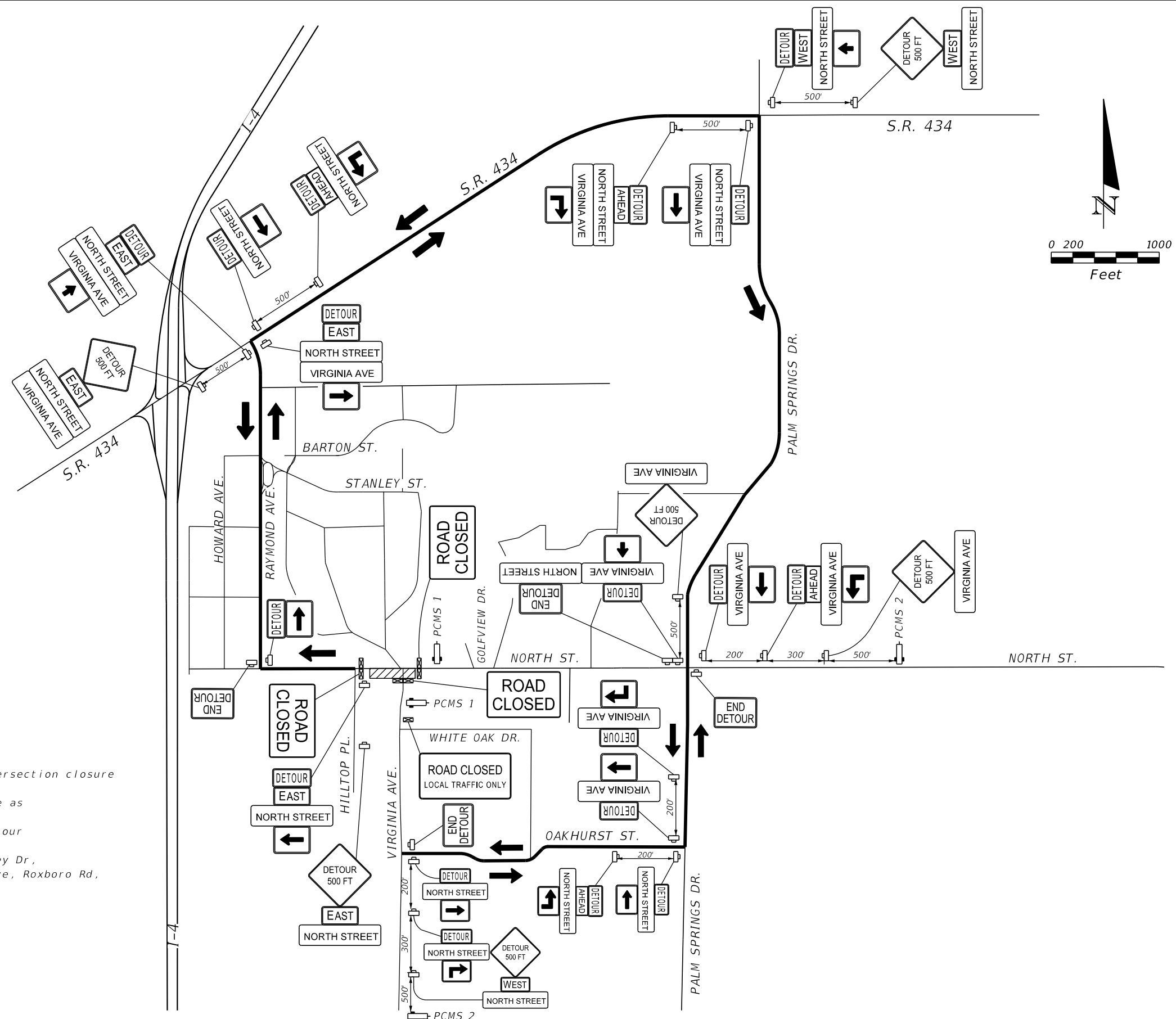
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

NORTH STREET
 PHASE 2 STAGE 4

SHEET NO.
 354

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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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.
 355

PCMS 1
 DISPLAY MIN 14 DAYS PRIOR TO CLOSURE;

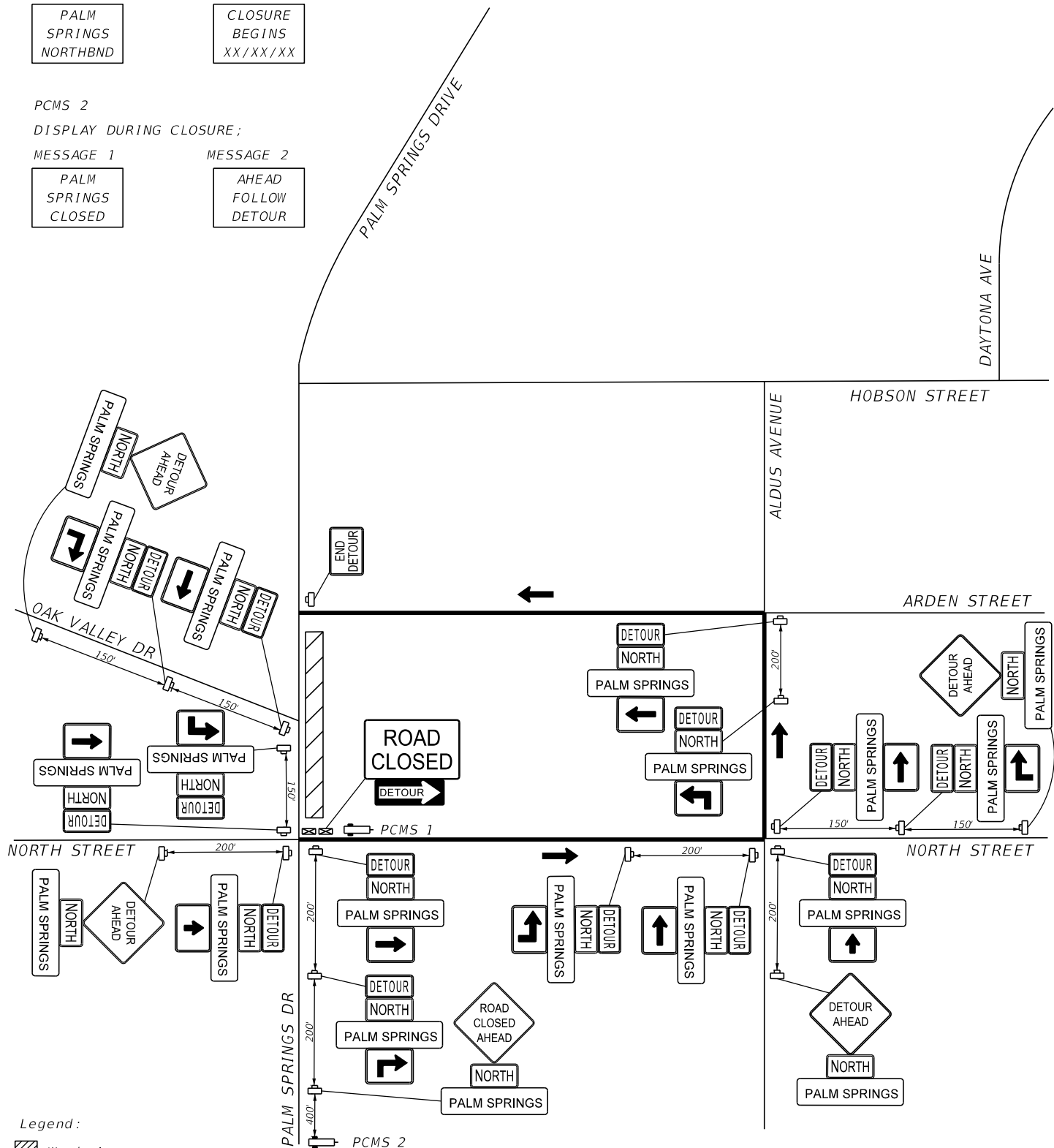
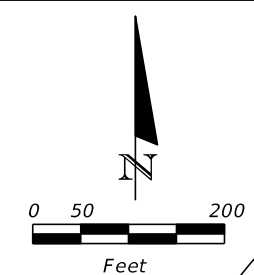
MESSAGE 1
 PALM SPRINGS NORTHBND

MESSAGE 2
 CLOSURE BEGINS XX/XX/XX

PCMS 2
 DISPLAY DURING CLOSURE;

MESSAGE 1
 PALM SPRINGS CLOSED

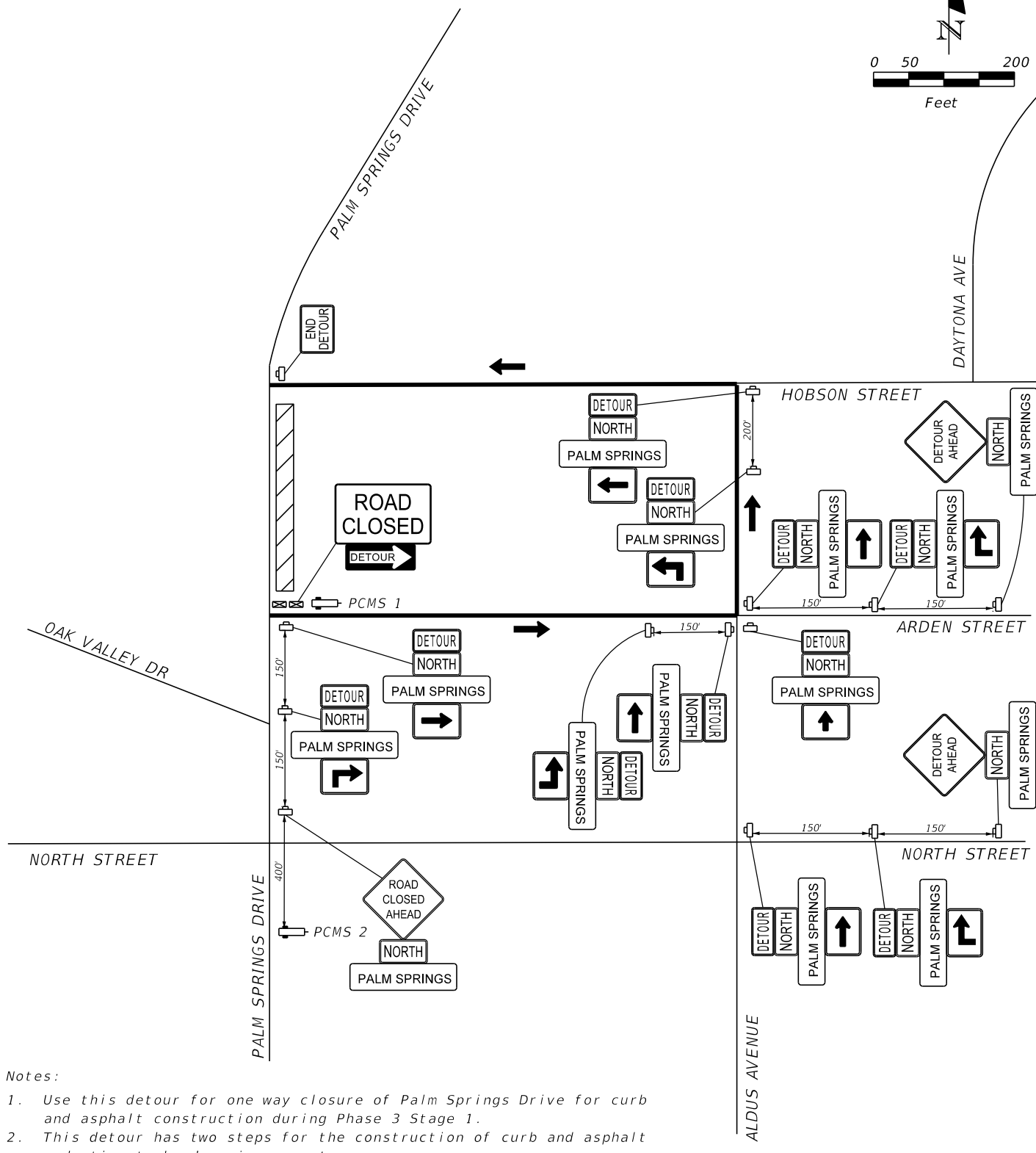
MESSAGE 2
 AHEAD FOLLOW DETOUR



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. Step 1 closes Palm Springs Drive from North Street to Arden Street.
4. Step 2 closes Palm Springs Drive from Arden Street to Hobson Street.
5. Contractor may provide additional driveway/sidestreet detour signage as needed.

DETOUR 2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

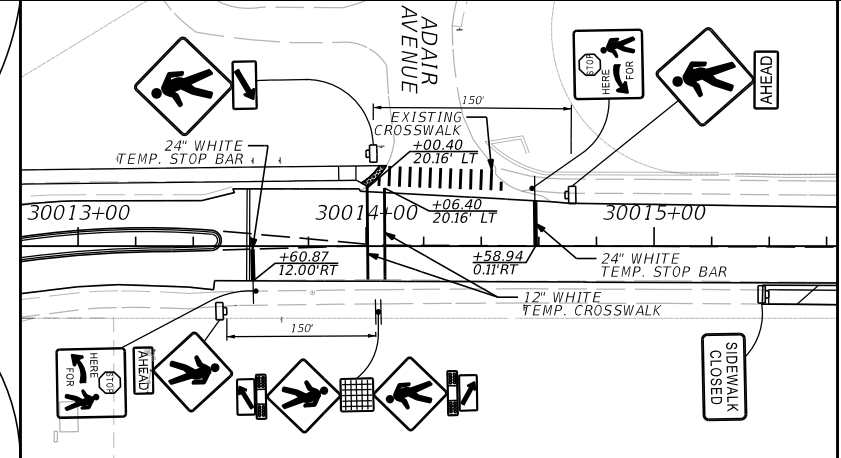
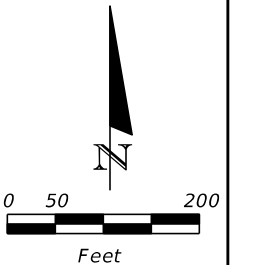
MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

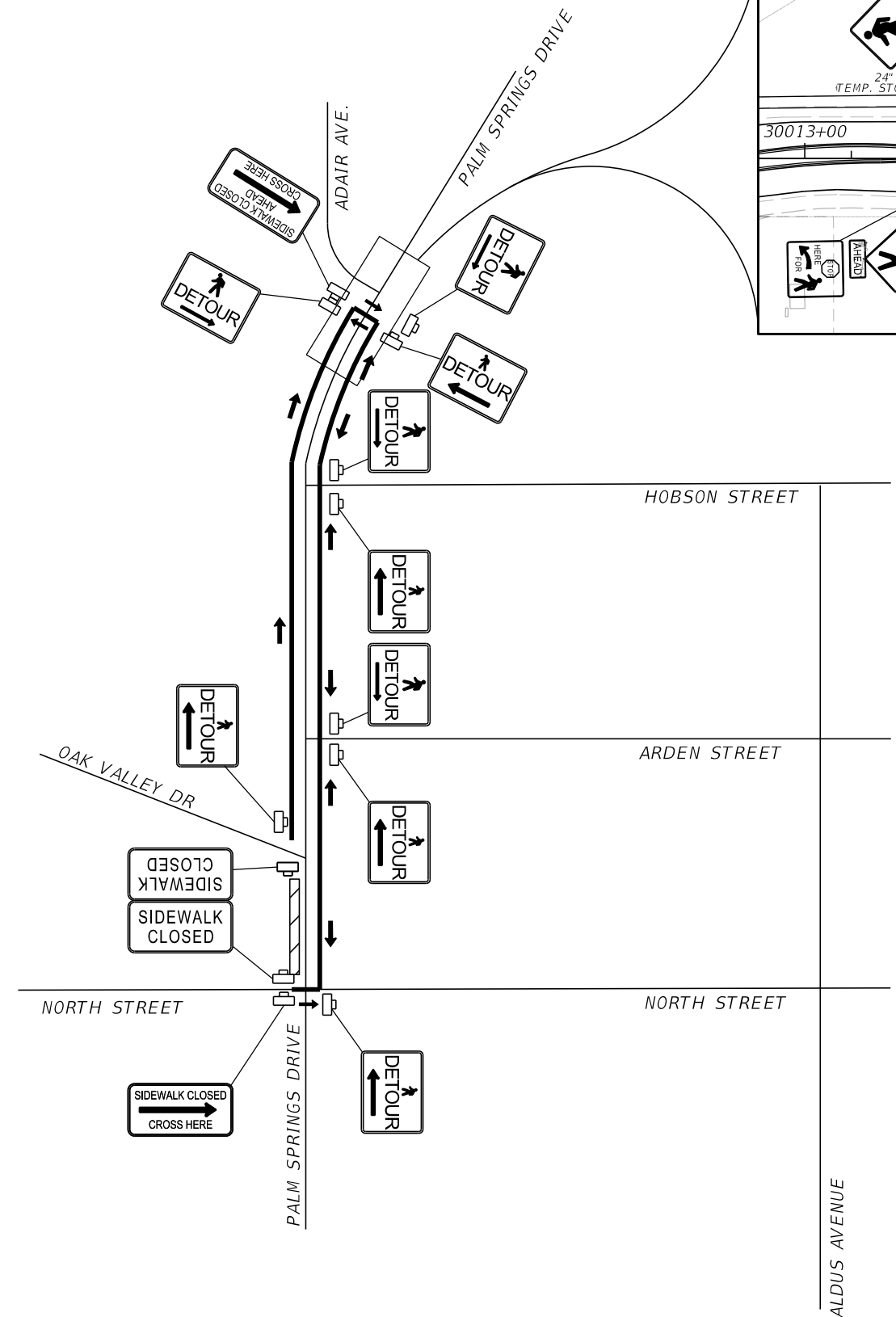
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

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

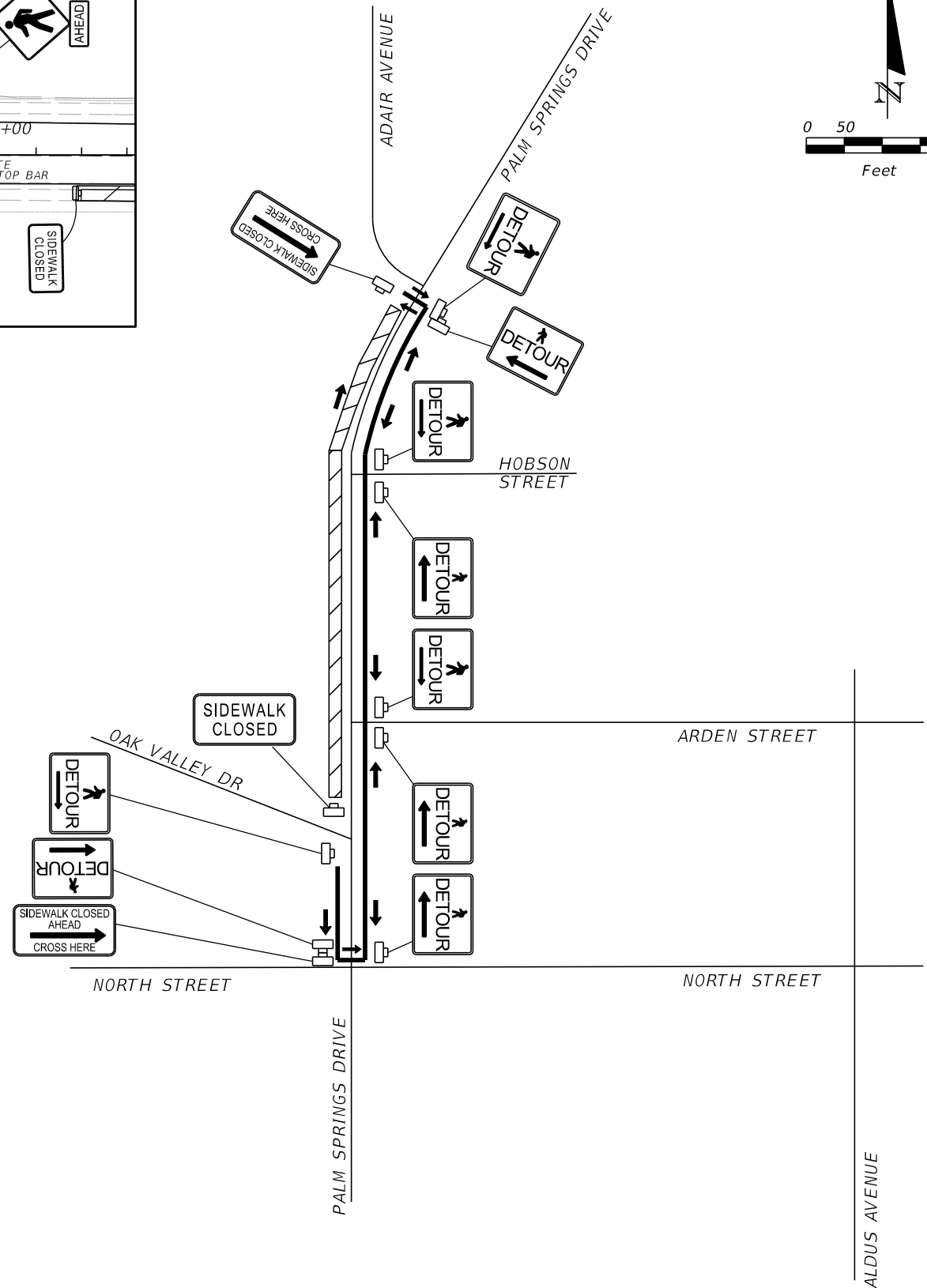
SHEET NO.
 356



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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

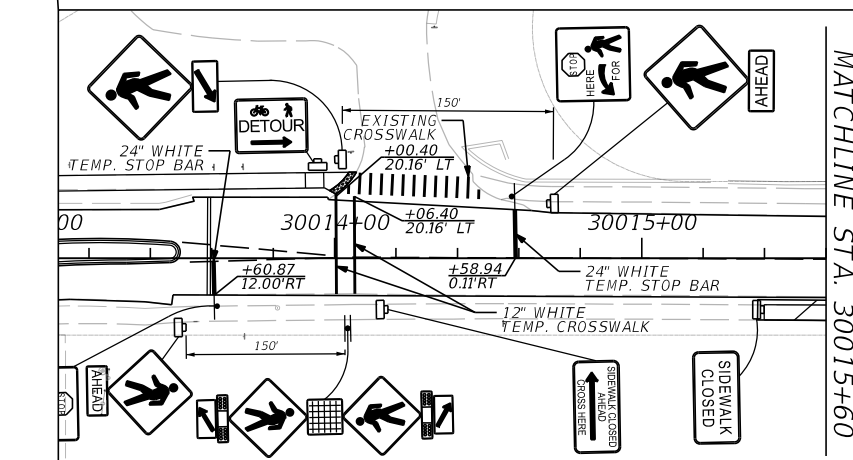
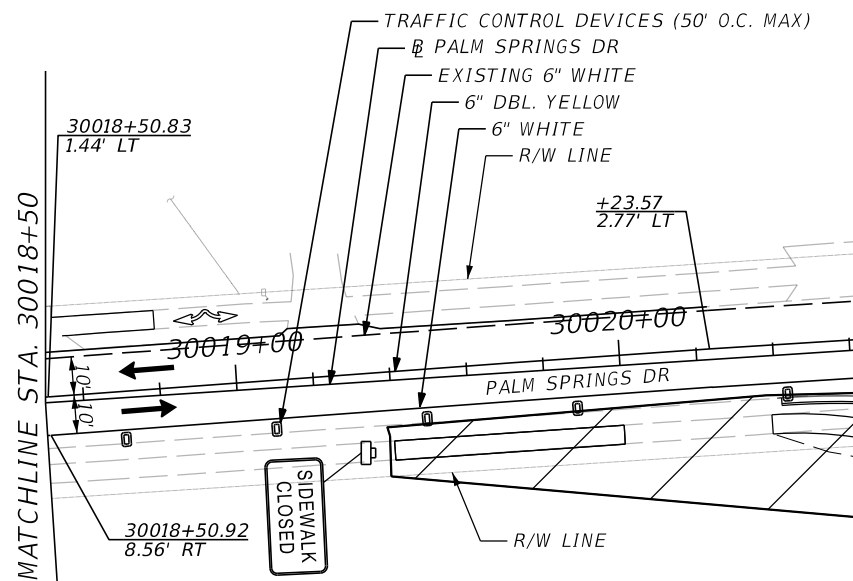
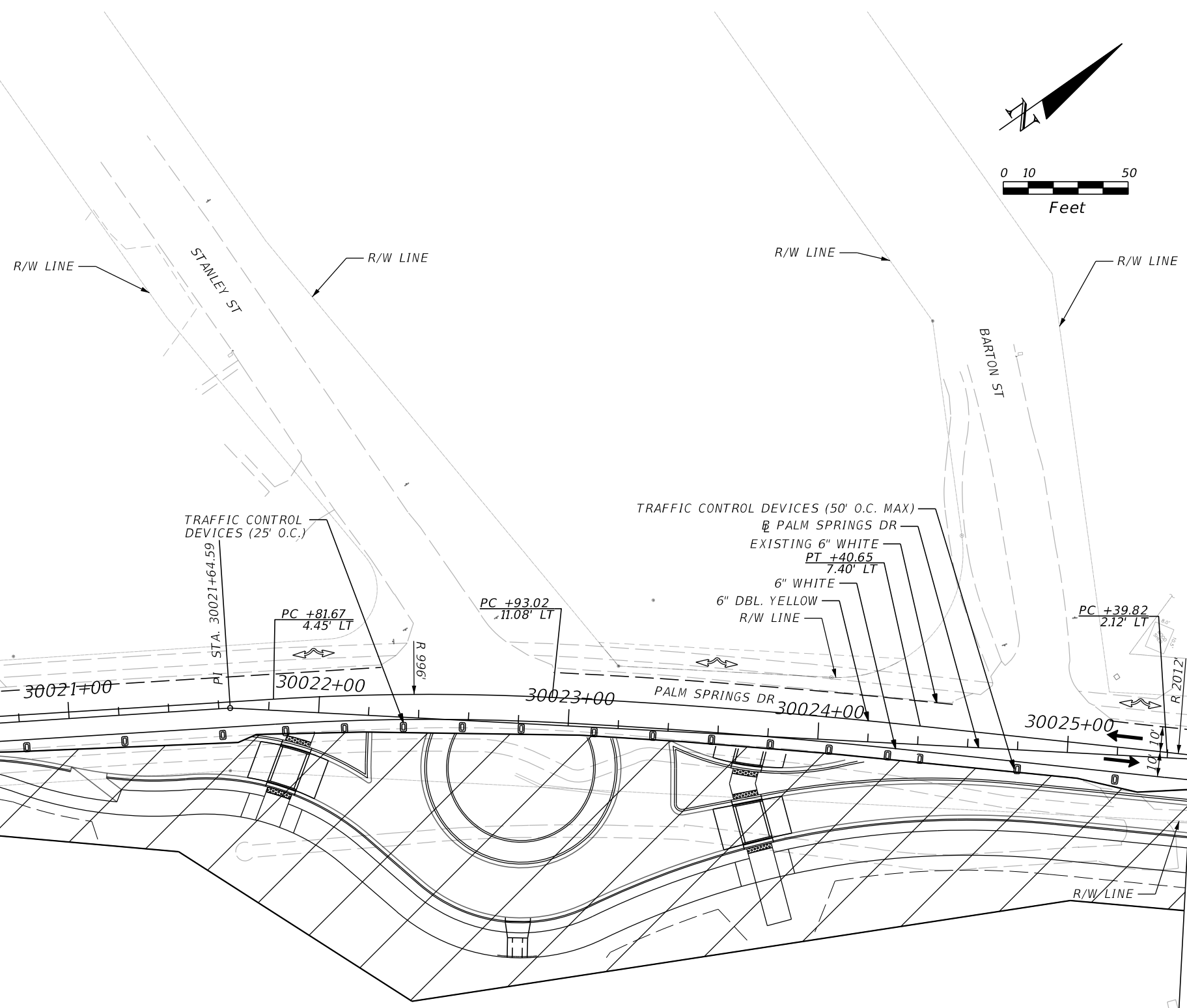
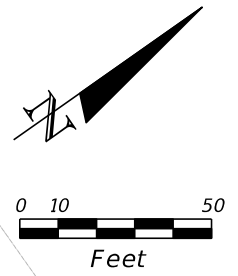
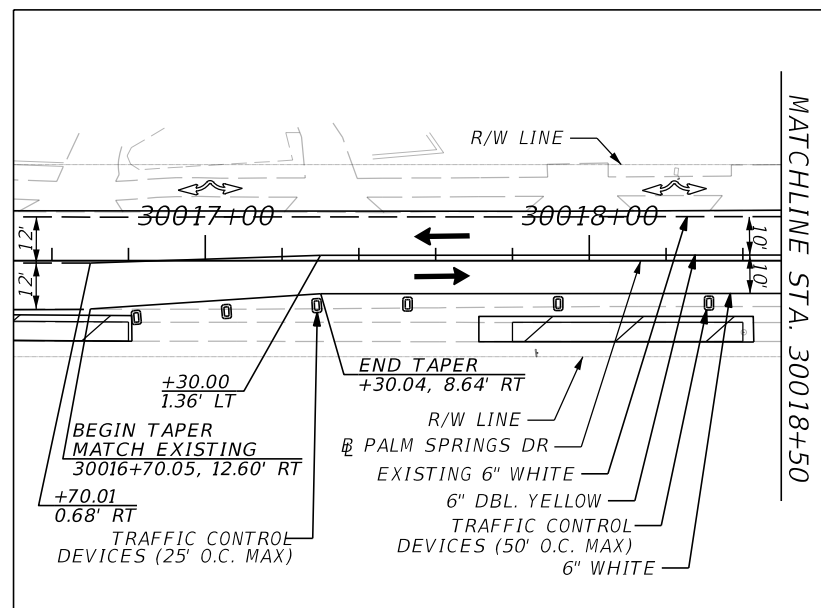


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

PHASE 3 STAGE 1 STEP 1
 PEDESTRIAN DETOUR

SHEET NO.
 357



- 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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

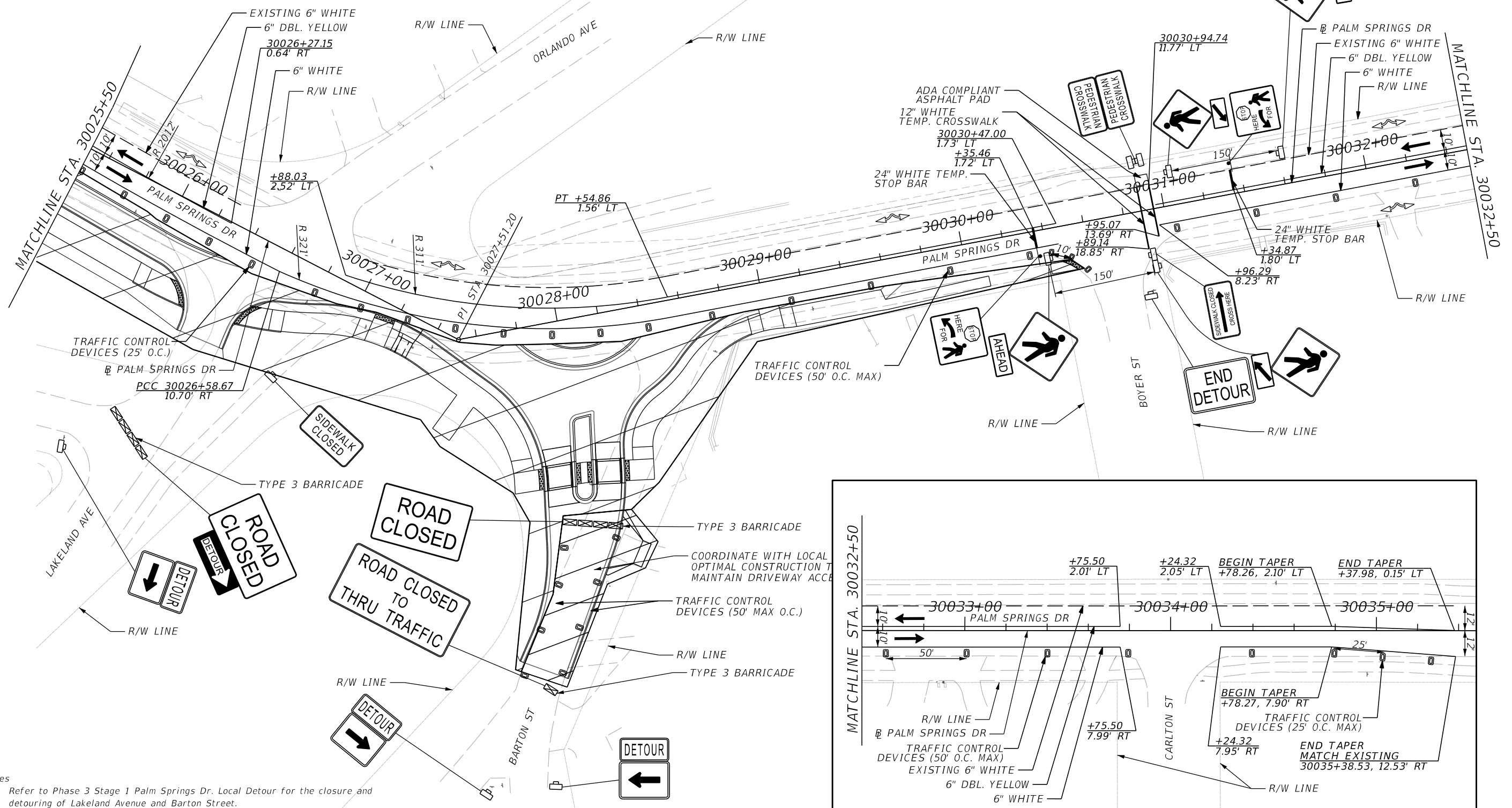
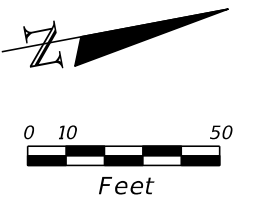


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

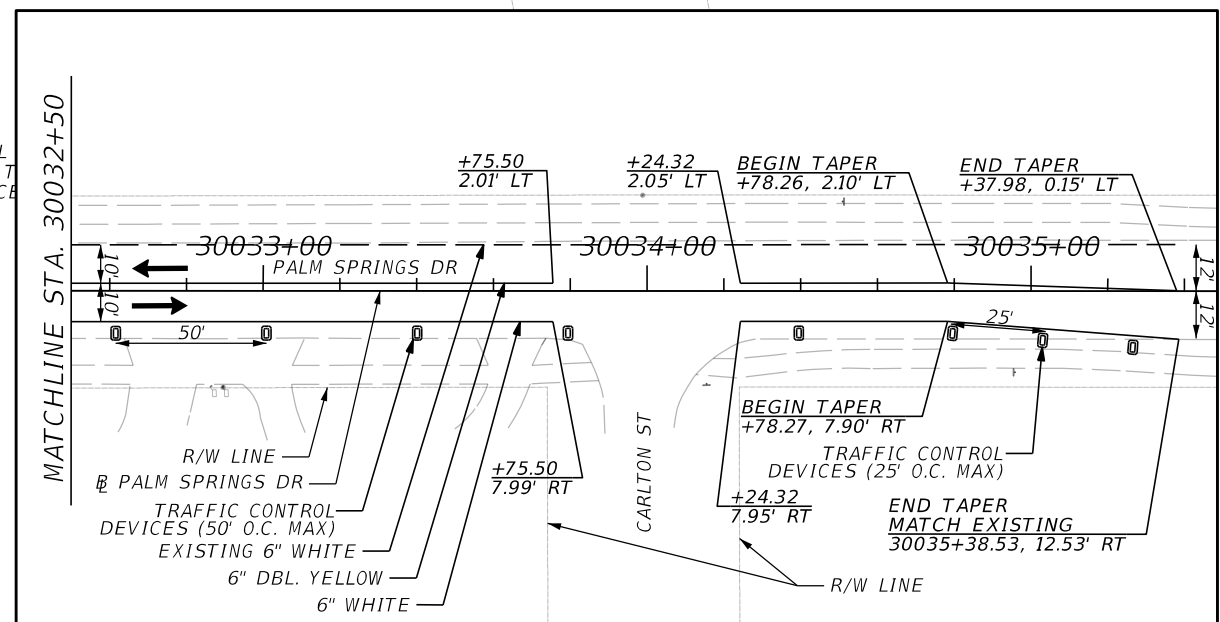
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

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

SHEET NO.
 358



- 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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

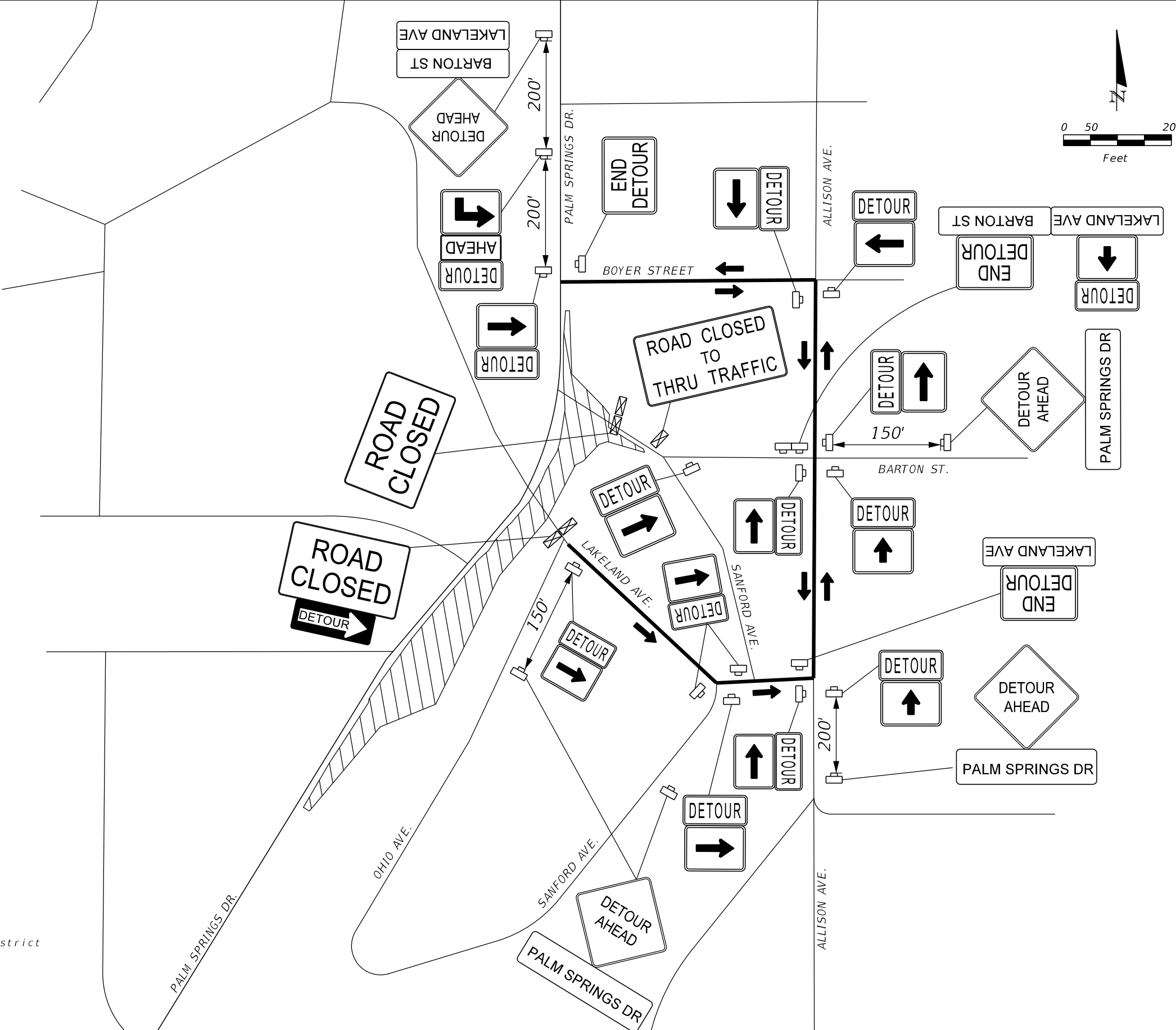
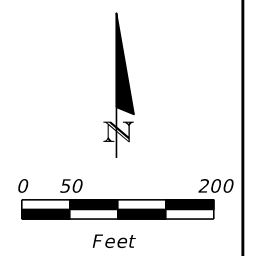


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

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

SHEET NO.
 359



- 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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

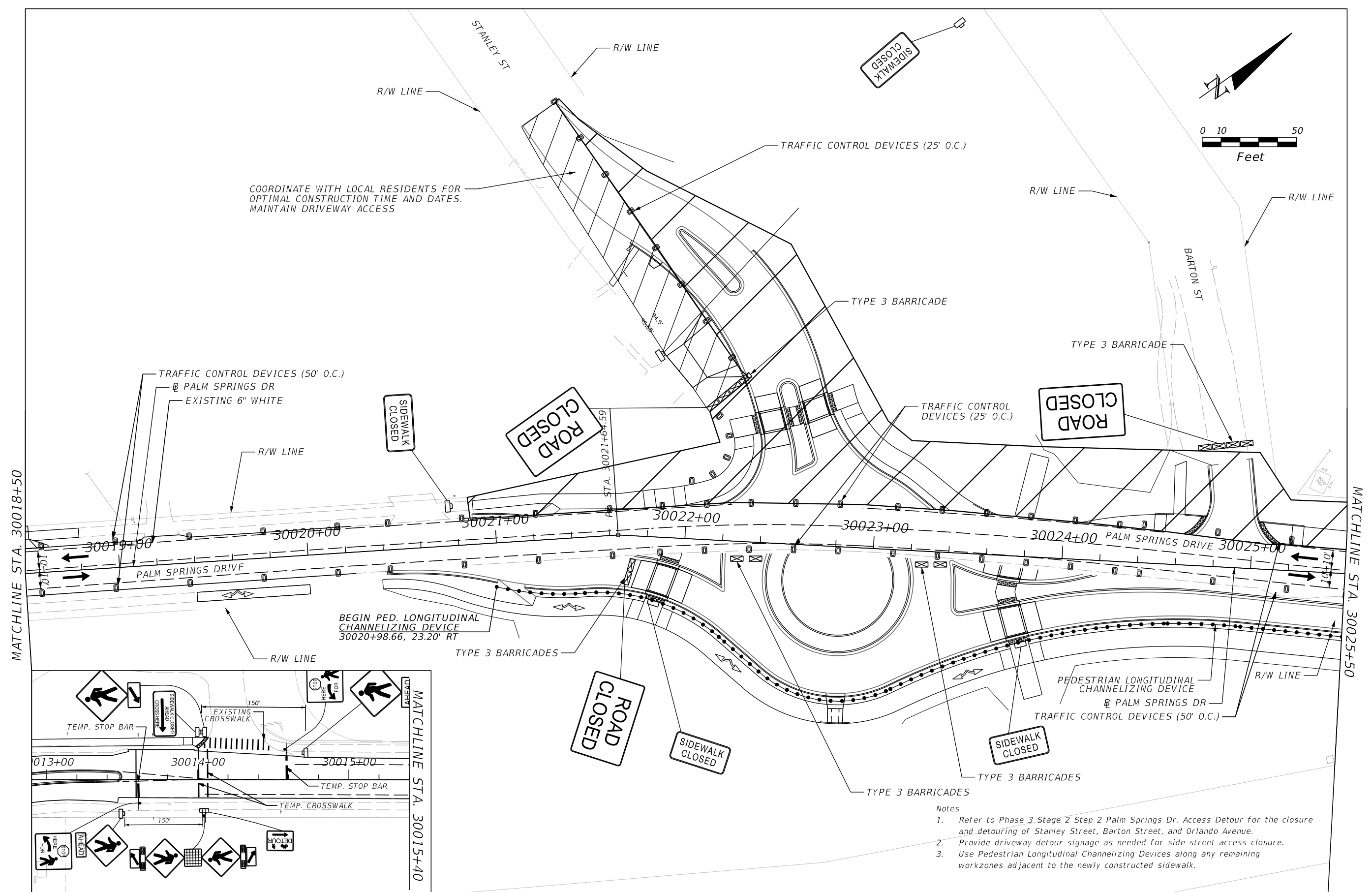


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

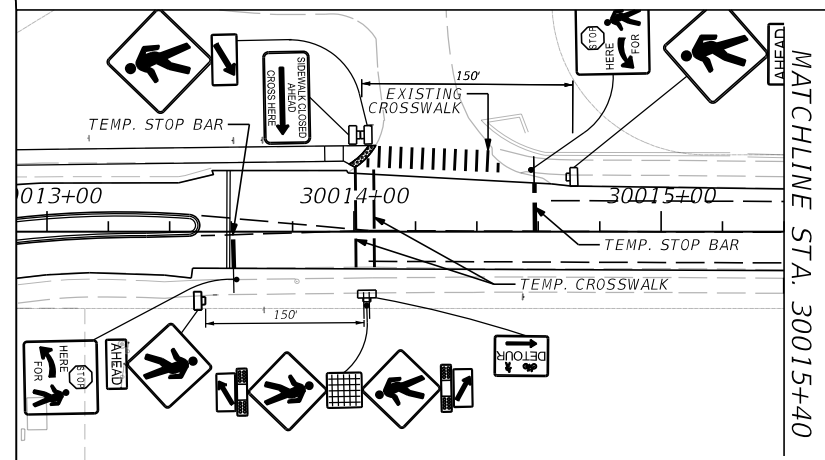
PHASE 3 STAGE 2 STEP 1
 PALM SPRINGS DR.
 ACCESS DETOUR (1)

SHEET NO.
 360



MATCHLINE STA. 30018+50

MATCHLINE STA. 30025+50



- 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

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

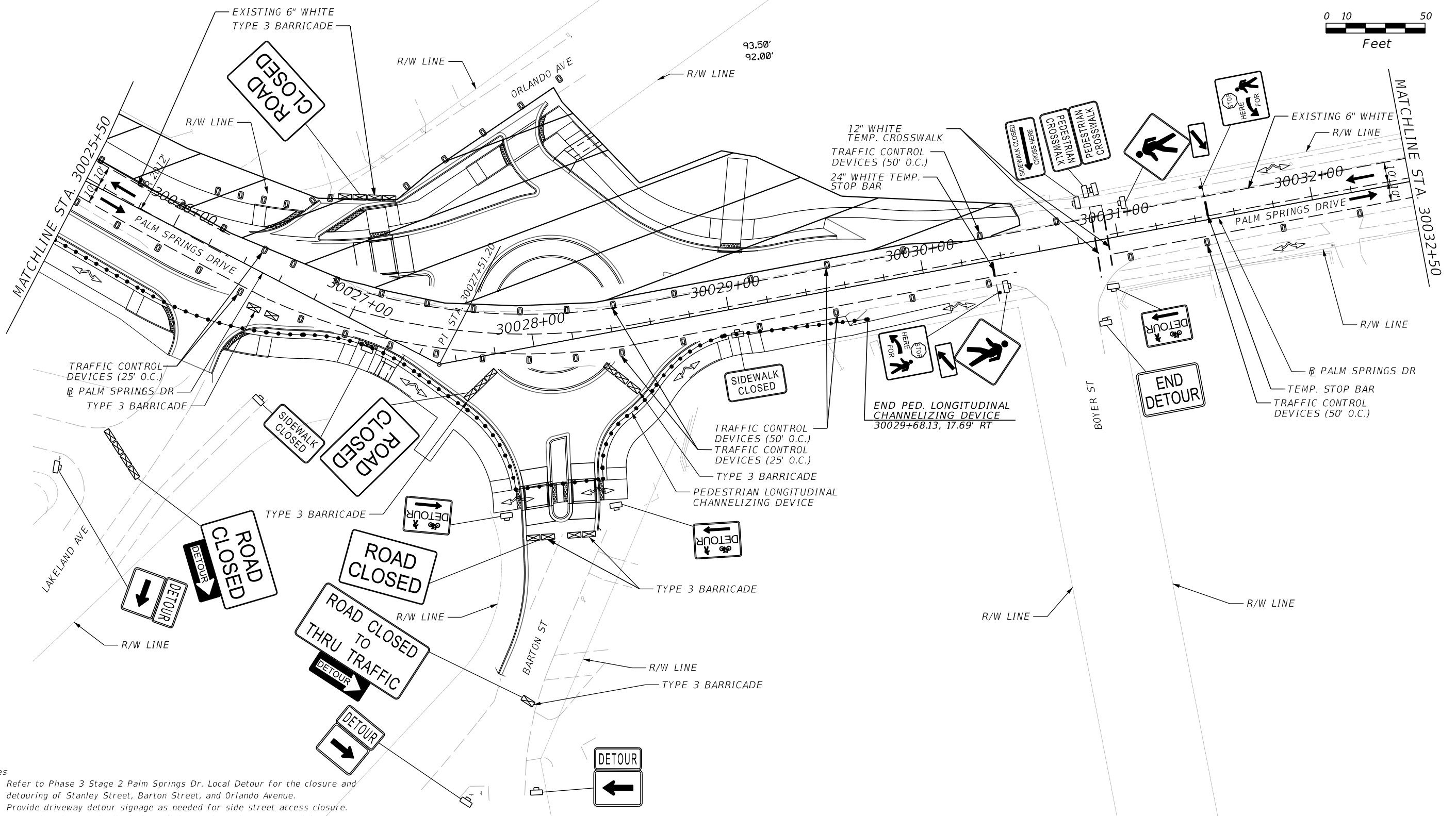
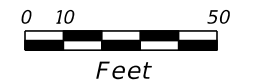


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

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

SHEET NO.
 361



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			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242



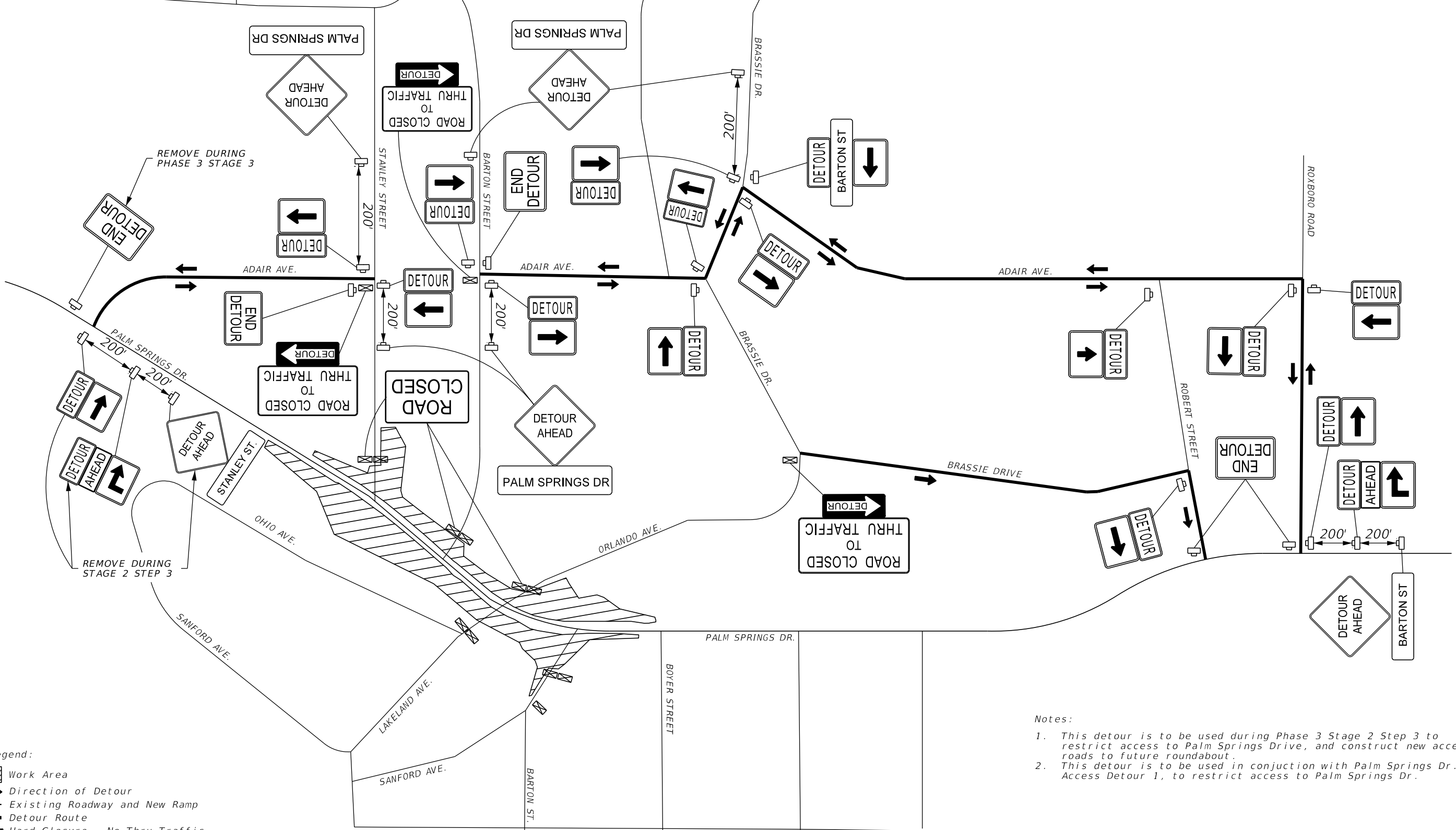
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

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

SHEET NO.

362



- 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 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. Access Detour 1, to restrict access to Palm Springs Dr.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 315 E. ROBINSON ST.
 SUITE 400
 ORLANDO, FL 32801
 PHONE 407.420.4200
 FAX 407.420.4242

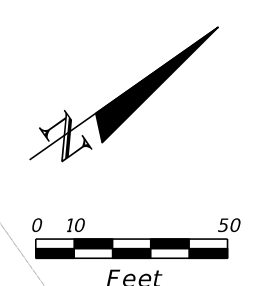
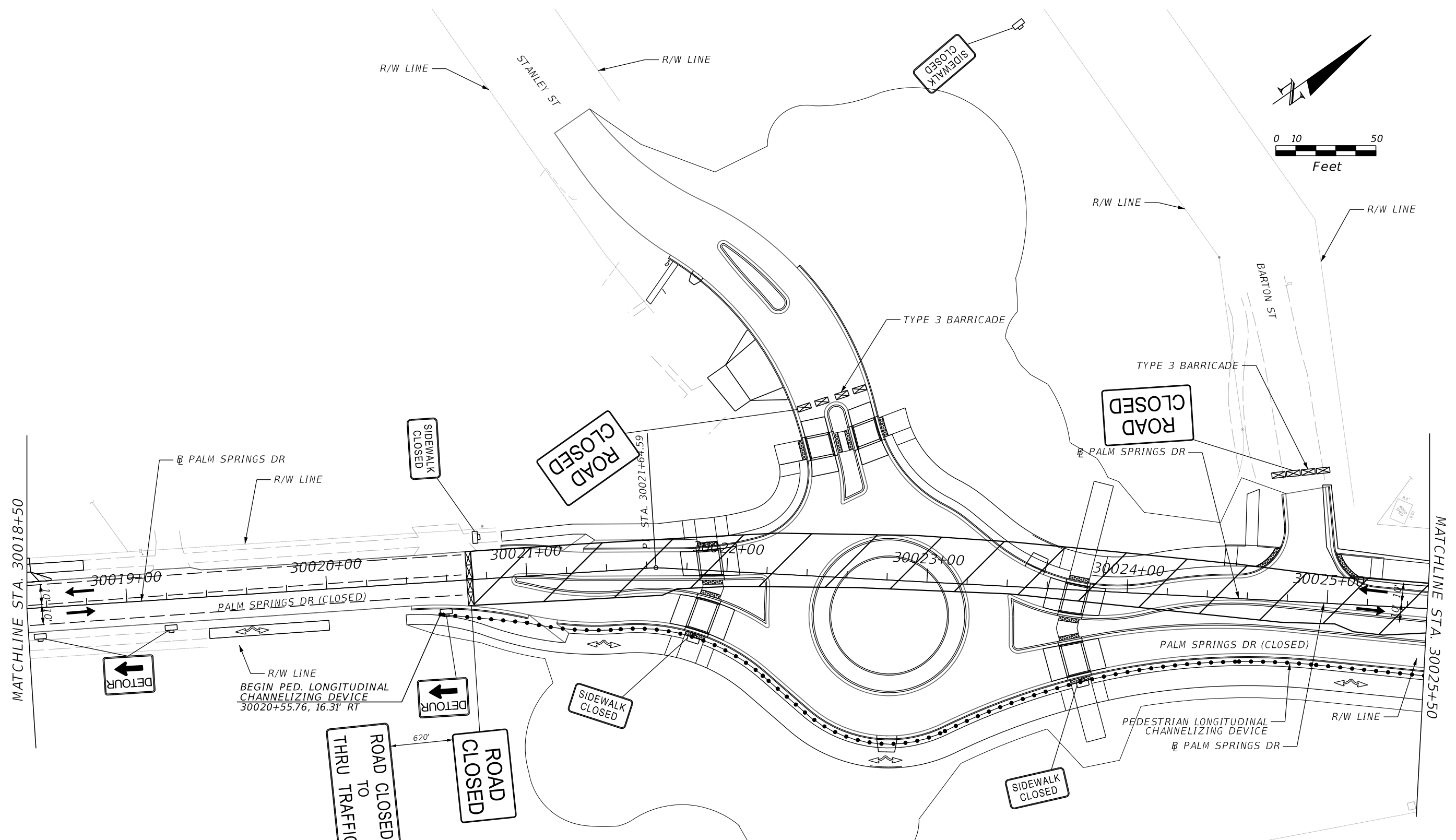


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

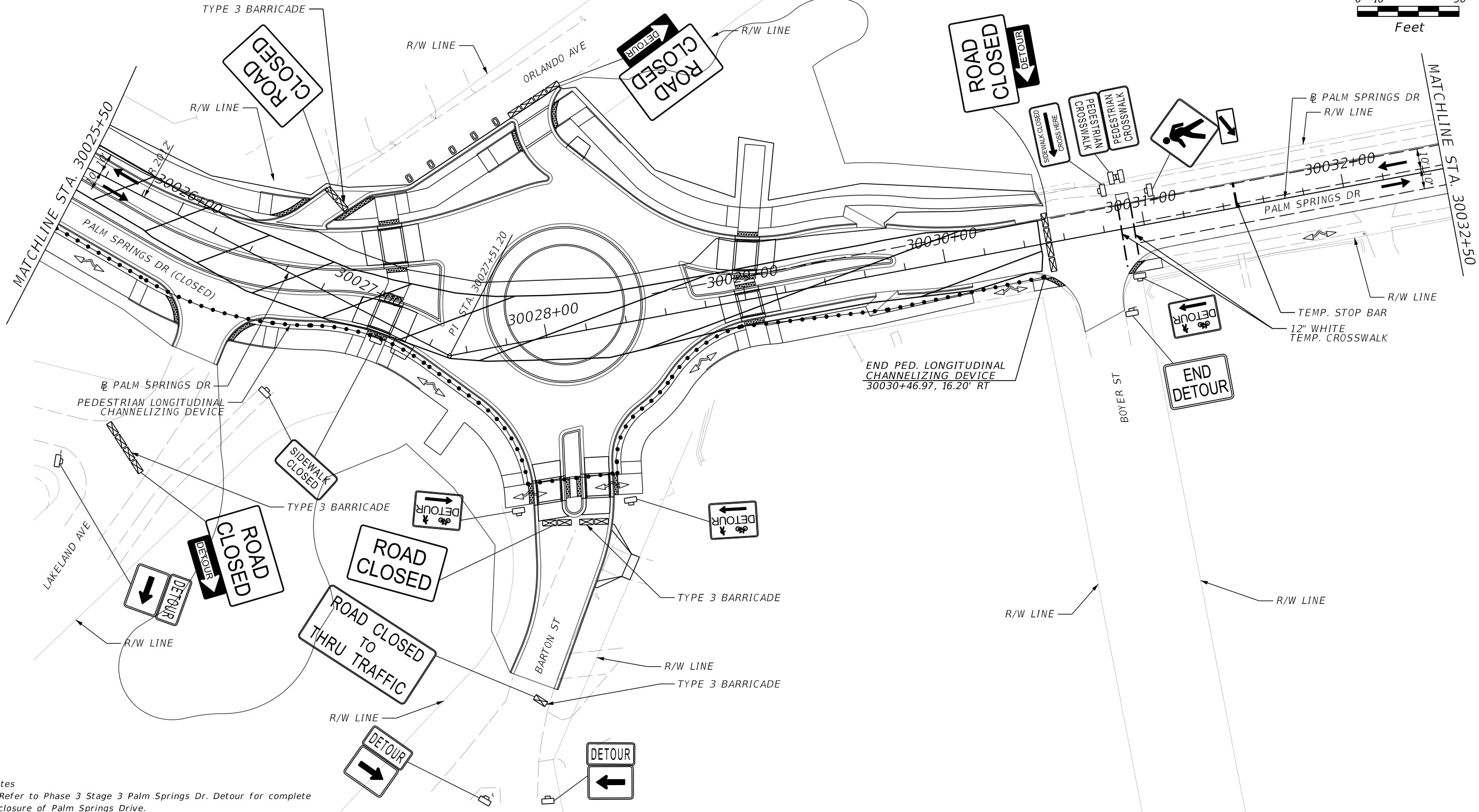
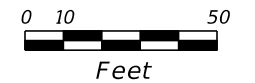
PHASE 3 STAGE 2 STEP 2
 PALM SPRINGS DR.
 ACCESS DETOUR (2)

SHEET NO.
 363



- 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				MARK W. SUAREZ, P.E. LICENSE NO. 76977 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 (1) PHASE 3 STAGE 2 STEP 3	SHEET NO. 364
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		
					<small>SUSERS</small>	<small>SDATES</small>	<small>STIMES</small>	<small>SFILES</small>



- 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			
DATE	DESCRIPTION	DATE	DESCRIPTION

MARK W. SUAREZ, P.E. LICENSE NO. 76977
 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

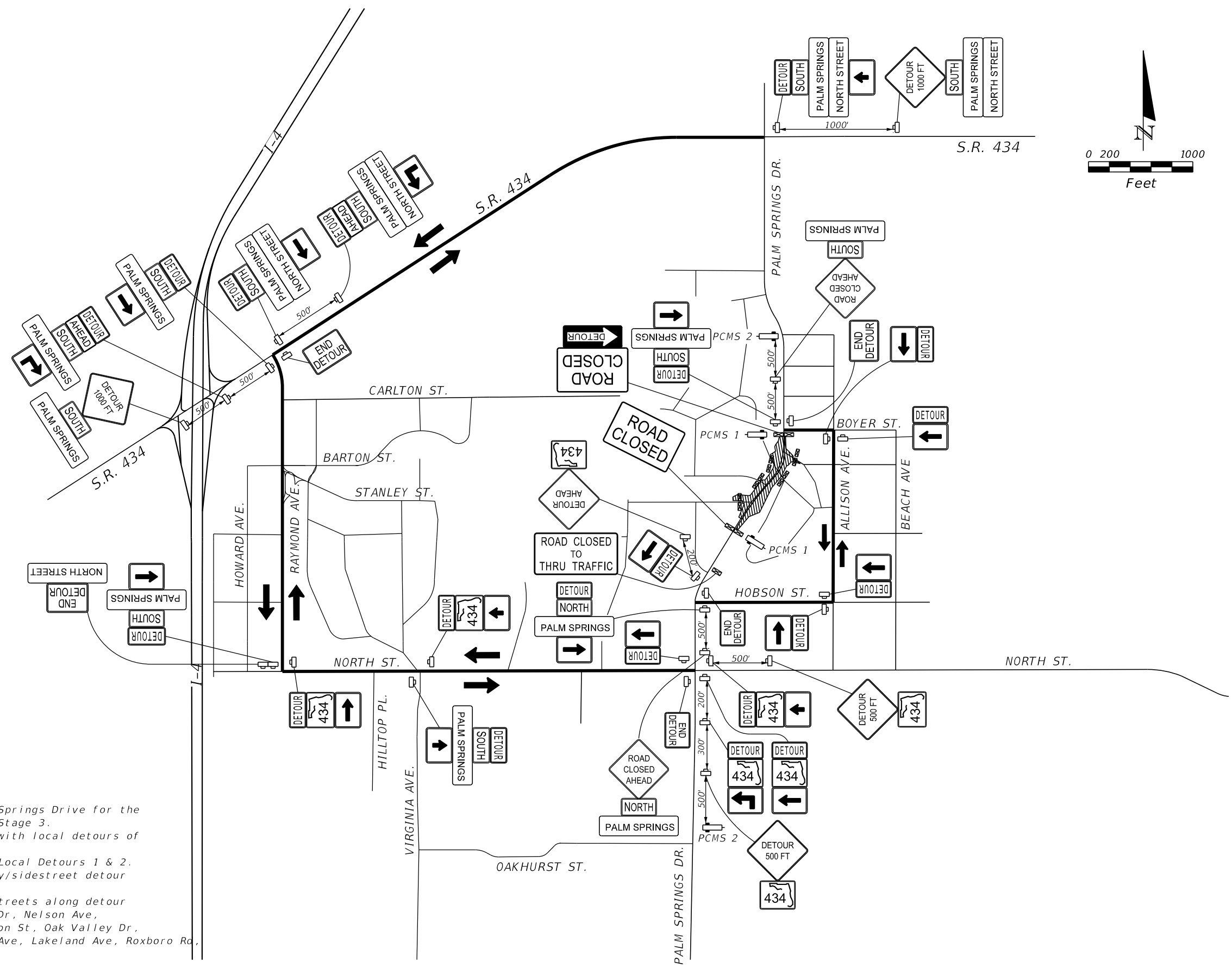
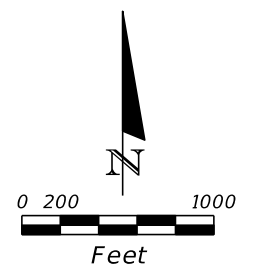
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

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

SHEET NO.
 365

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

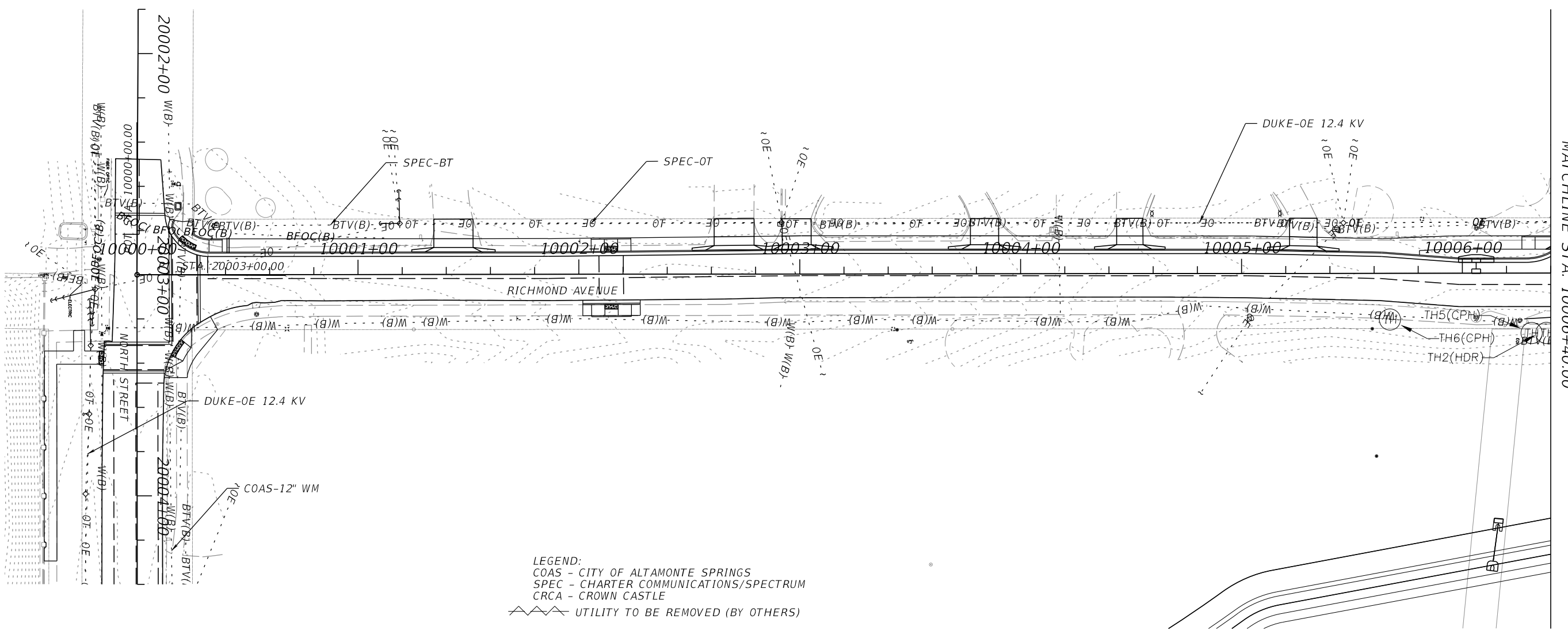
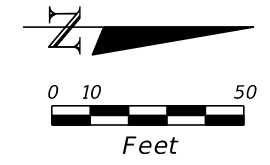
PCMS 2
 DISPLAY DURING CLOSURE;
 MESSAGE 1
 PALM SPRINGS CLOSED
 MESSAGE 2
 AHEAD FOLLOW DETOUR



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

- Notes:
1. Use this detour for full closure of Palm Springs Drive for the final construction activities of Phase 3 Stage 3.
 2. This detour is to be used in conjunction with local detours of Phase 3 Stages 1 & 2, access closures.
 3. Remove contradictory detour signage from Local Detours 1 & 2.
 4. Contractor may provide additional driveway/sidestreet detour signage as needed.
 5. 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)

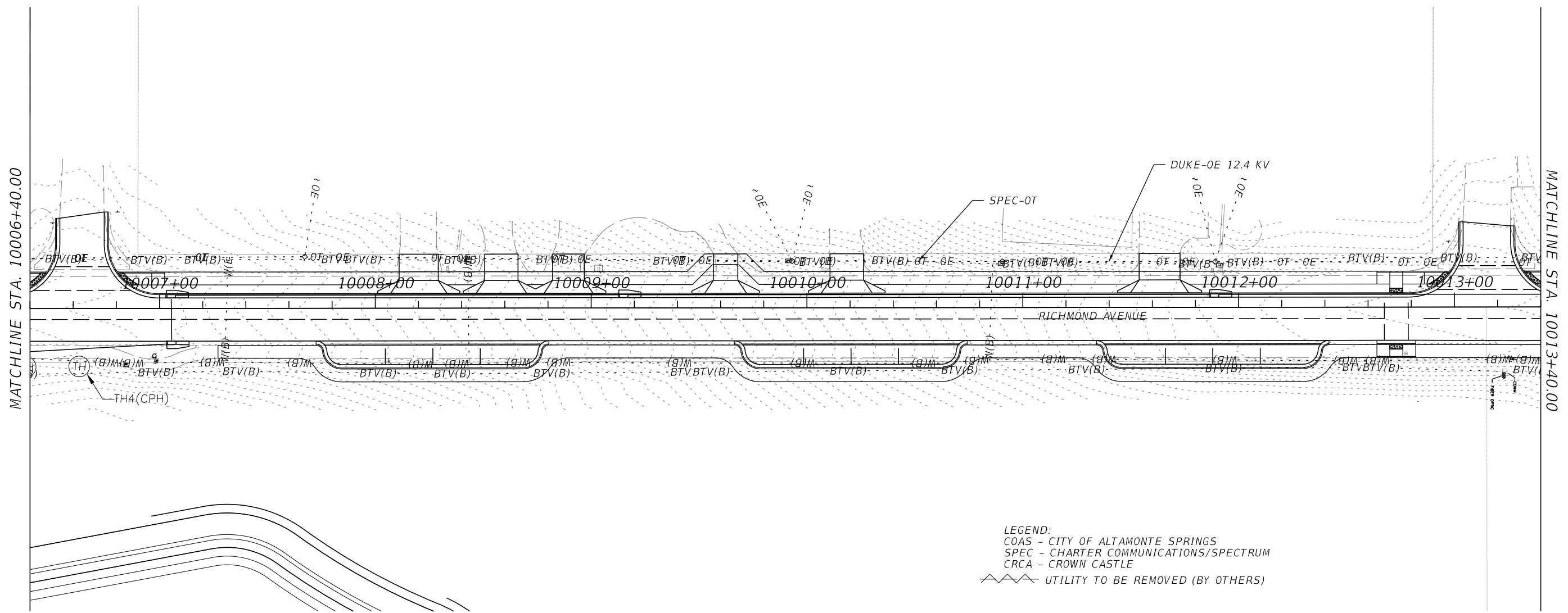
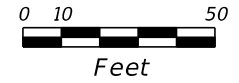
REVISIONS				MARK W. SUAREZ, P.E. LICENSE NO. 76977 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		PHASE 3 STAGE 2 STEP 3 PALM SPRINGS DR. DETOUR (3)	SHEET NO. 366
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084		



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

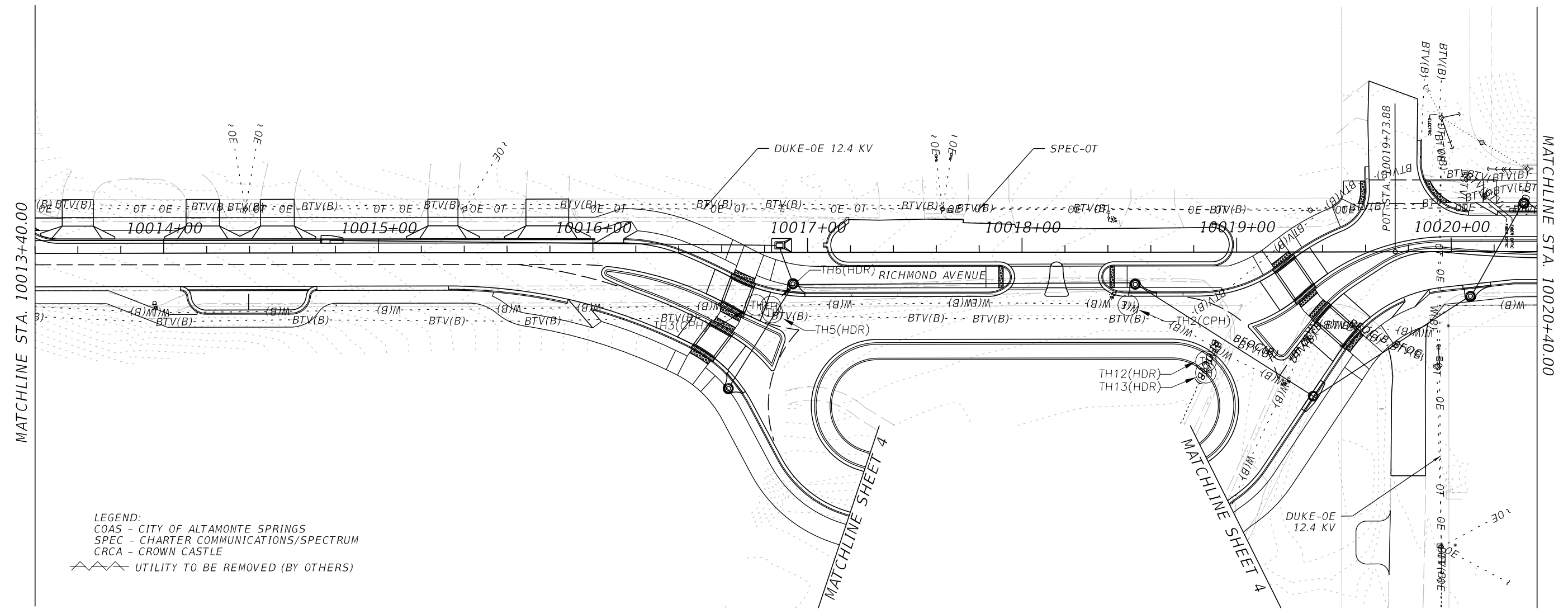
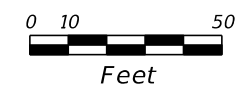
MATCHLINE STA. 10006+40.00

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		UTILITY ADJUSTMENT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD	COUNTY CIP No.	01907084	U-1		
				RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.					



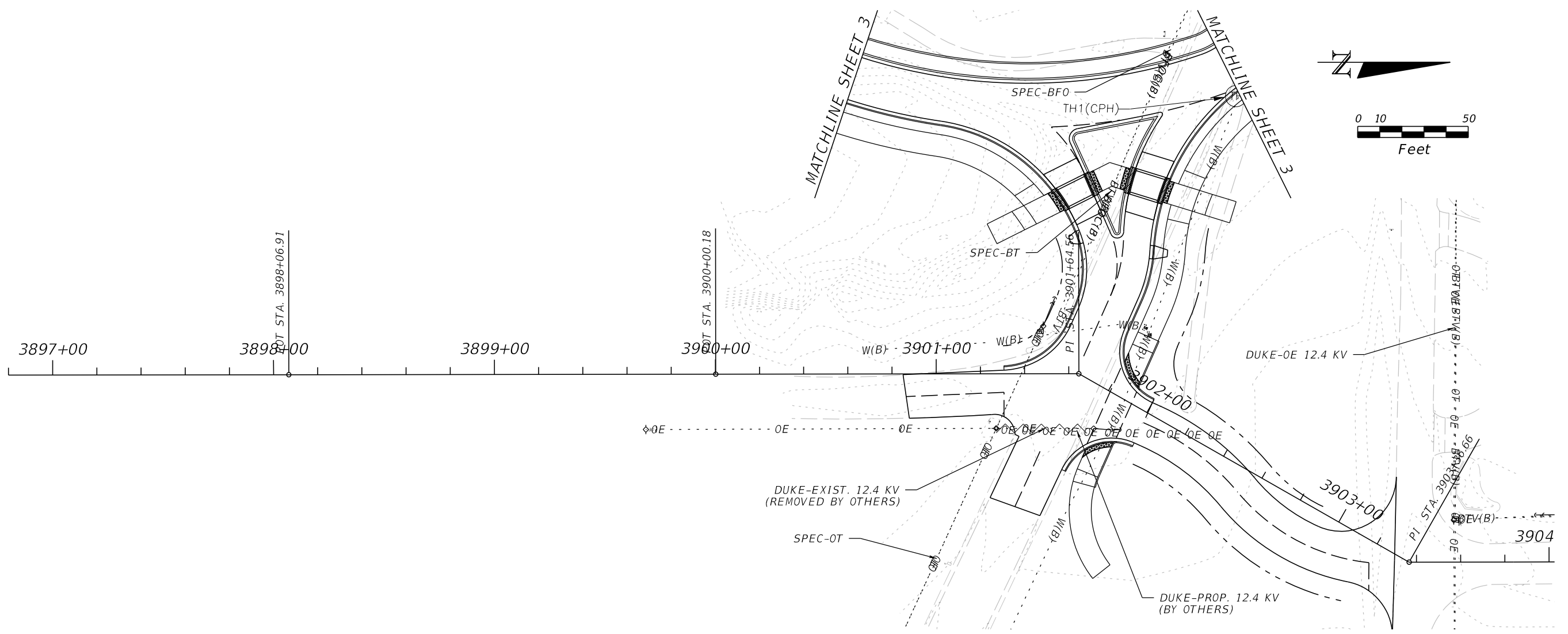
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		UTILITY ADJUSTMENT	SHEET NO. U-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084			

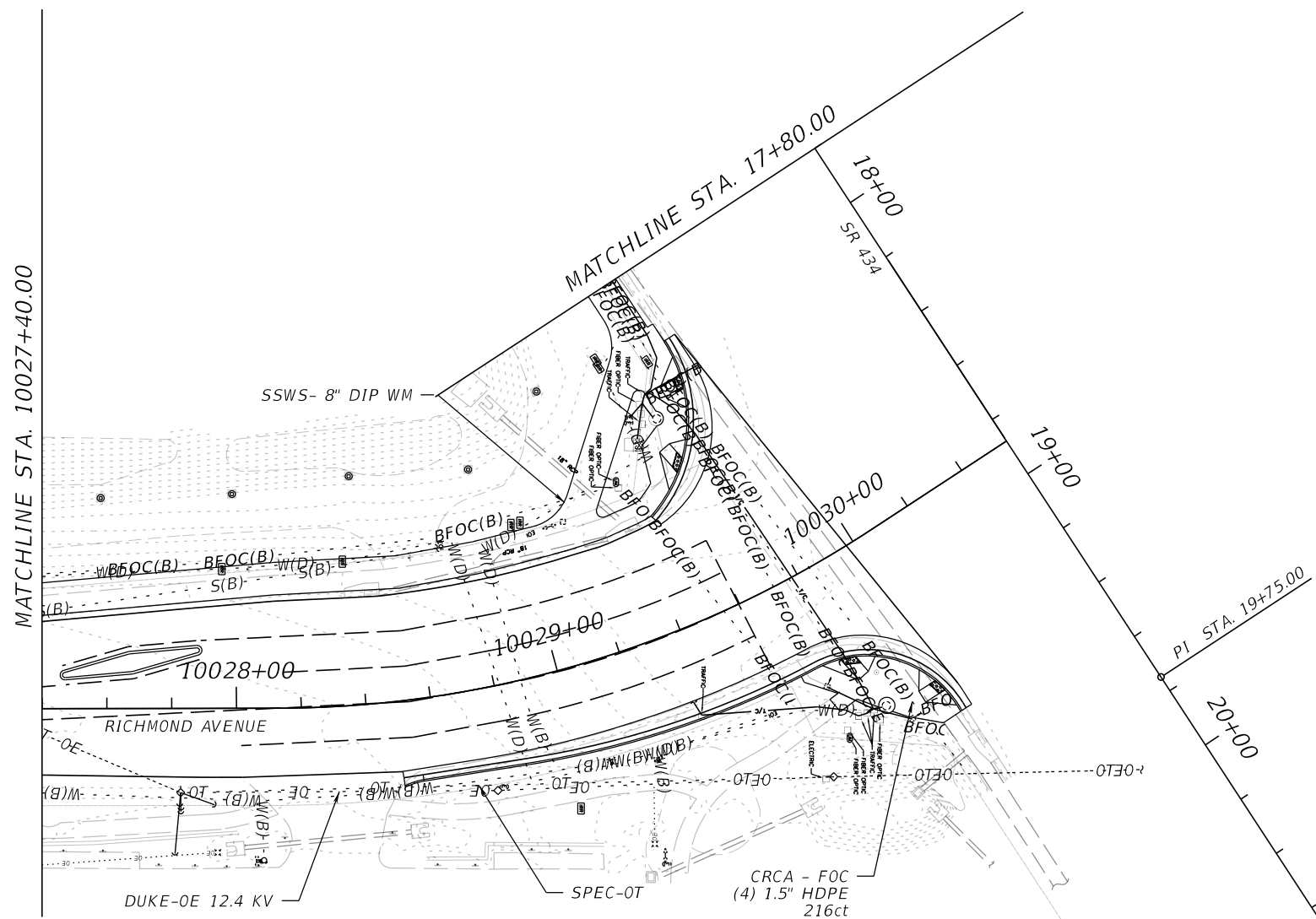



LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		UTILITY ADJUSTMENT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD	COUNTY CIP No.	U-3			
				RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084				

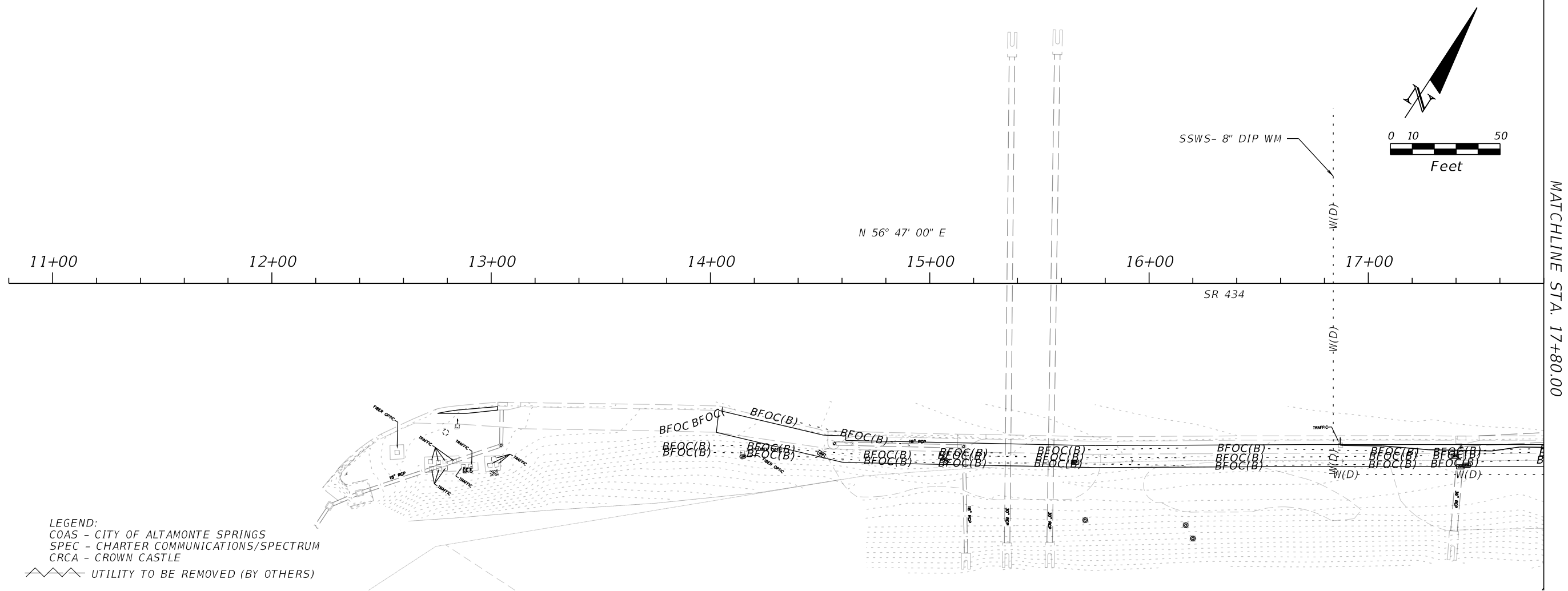


REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		UTILITY ADJUSTMENT	SHEET NO.
DATE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



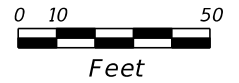
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		UTILITY ADJUSTMENT	SHEET NO. U-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084			



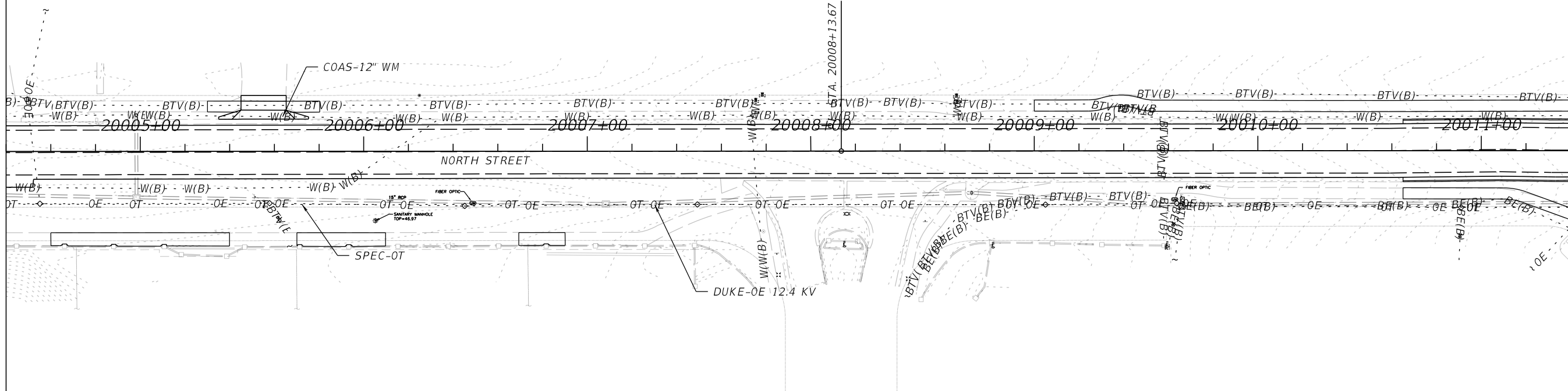
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	UTILITY ADJUSTMENT	



MATCHLINE STA. 20004+40.00

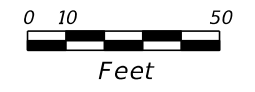
MATCHLINE STA. 20011+40.00



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

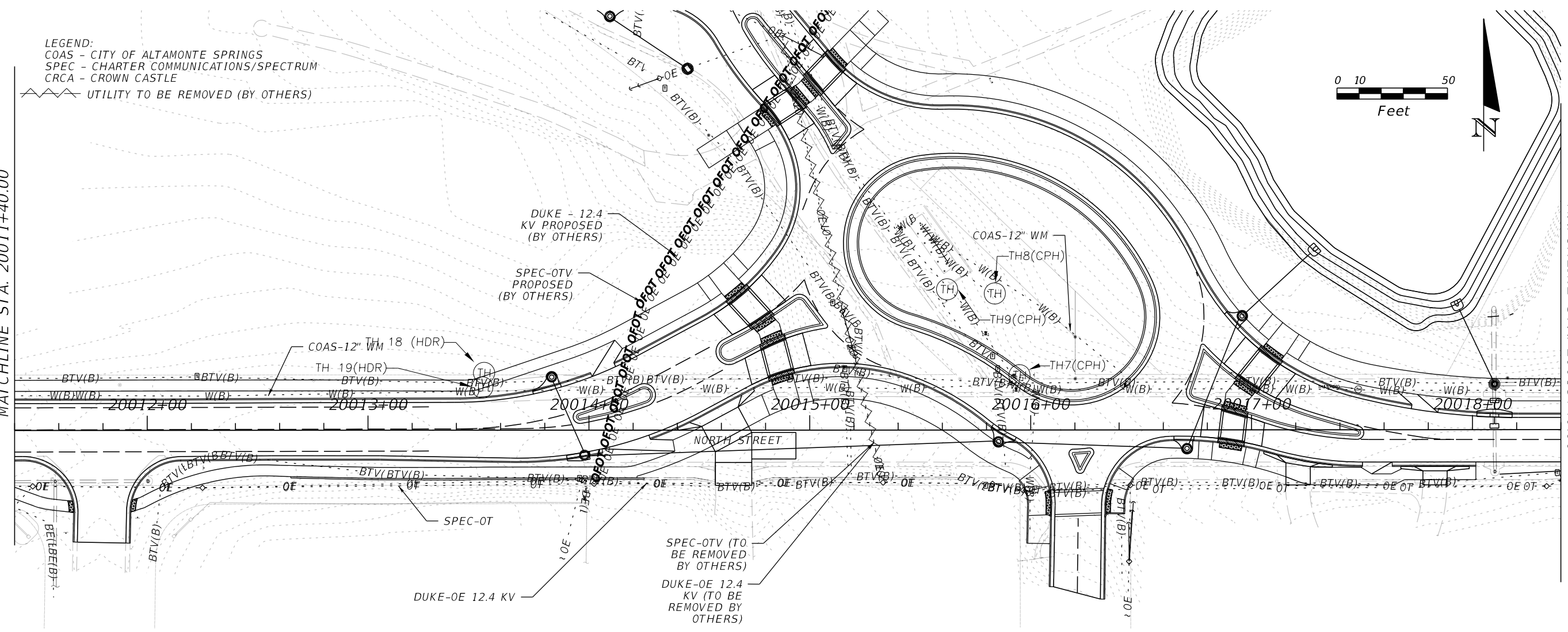
REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-8
DATE	DESCRIPTION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

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

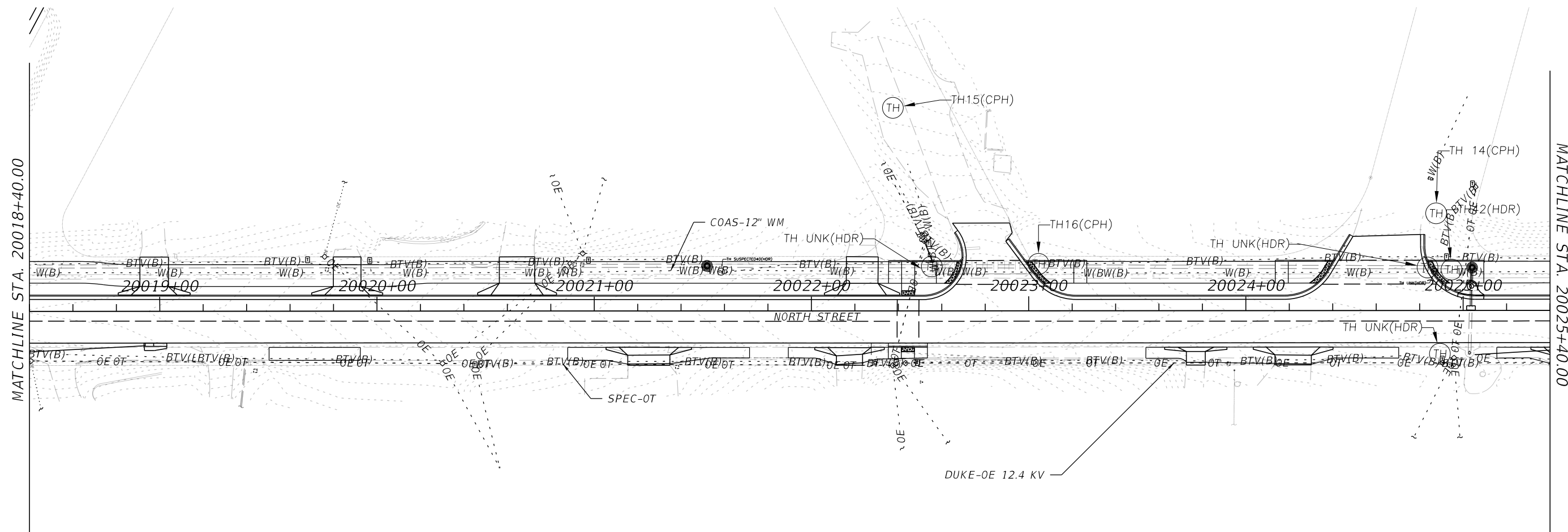
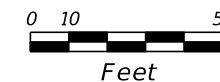


MATCHLINE STA. 20011+40.00

MATCHLINE STA. 20018+40.00

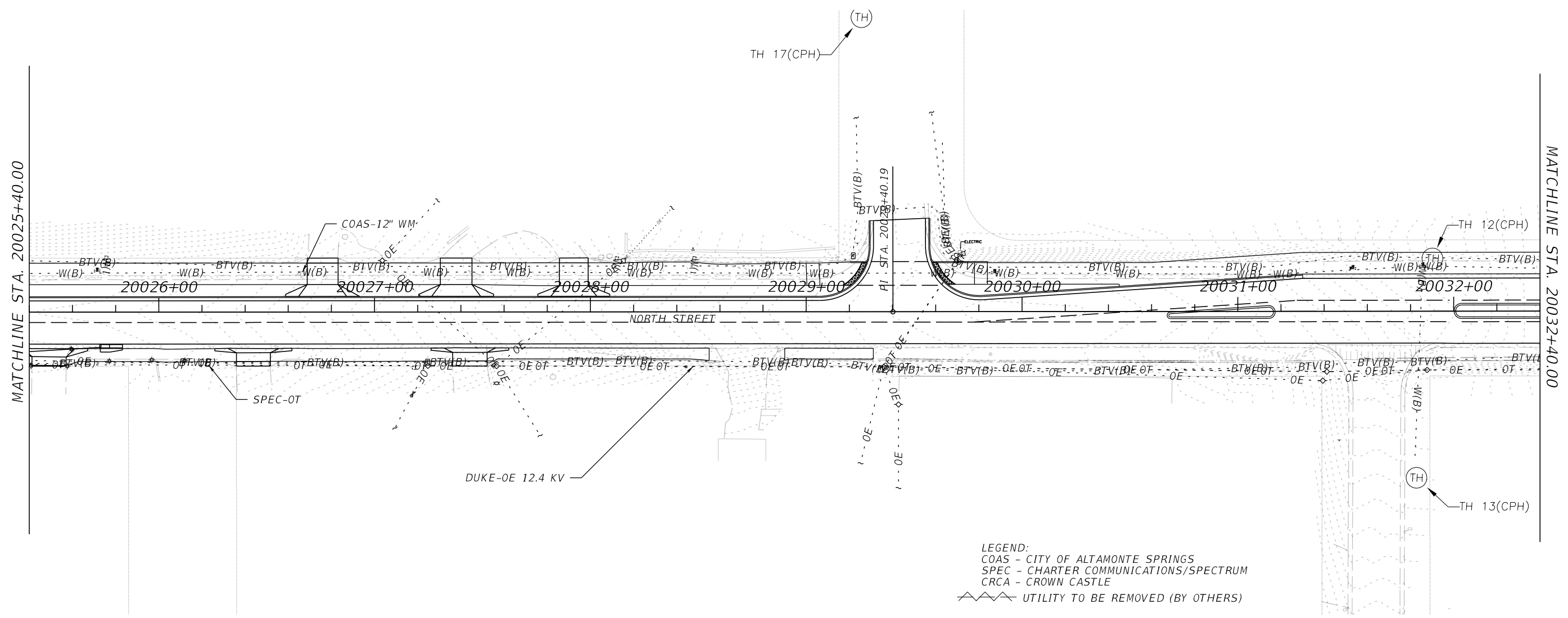
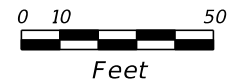


REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993		SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		UTILITY ADJUSTMENT	SHEET NO.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



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

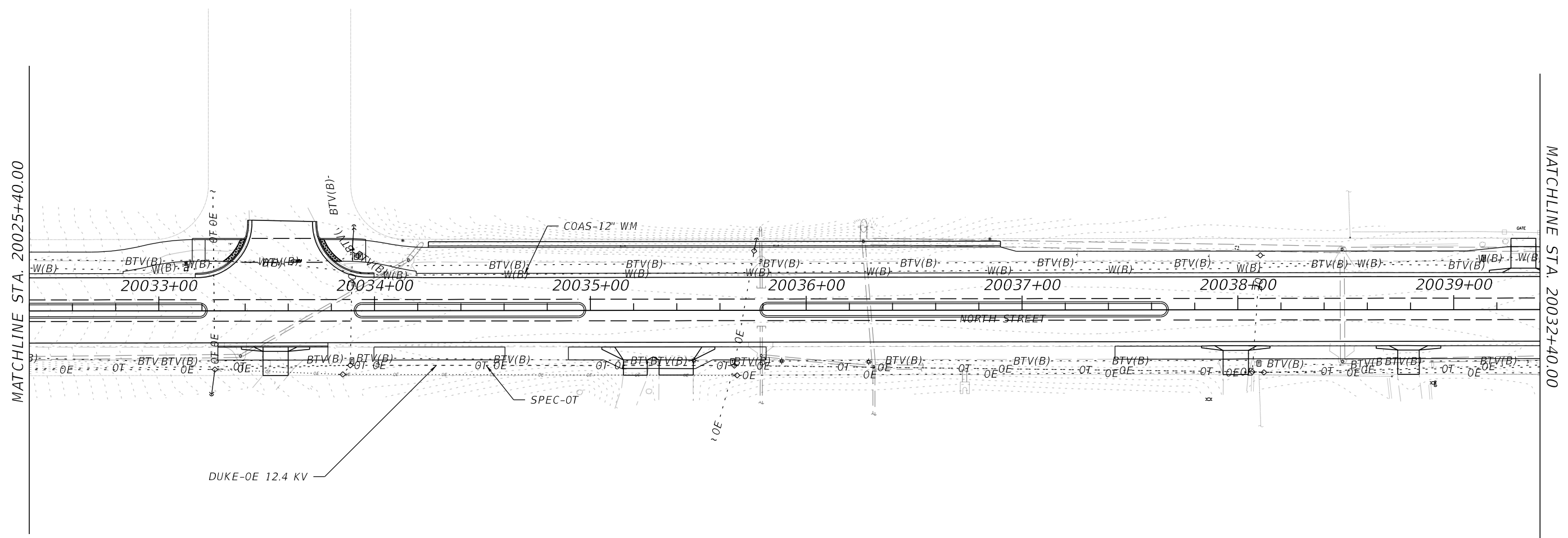
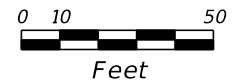
REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		<i>UTILITY ADJUSTMENT</i>	SHEET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



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

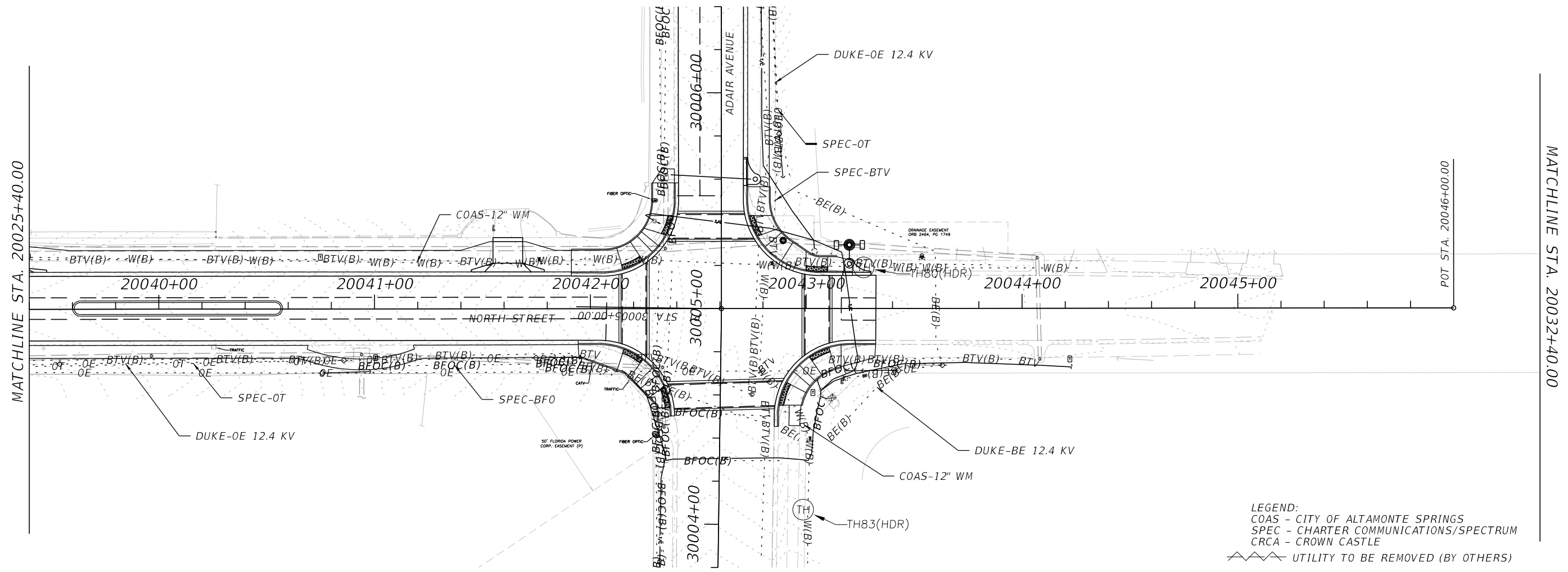
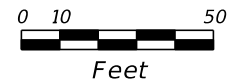
REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SHEET NO. U-11
DATE	DESCRIPTION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

UTILITY ADJUSTMENT



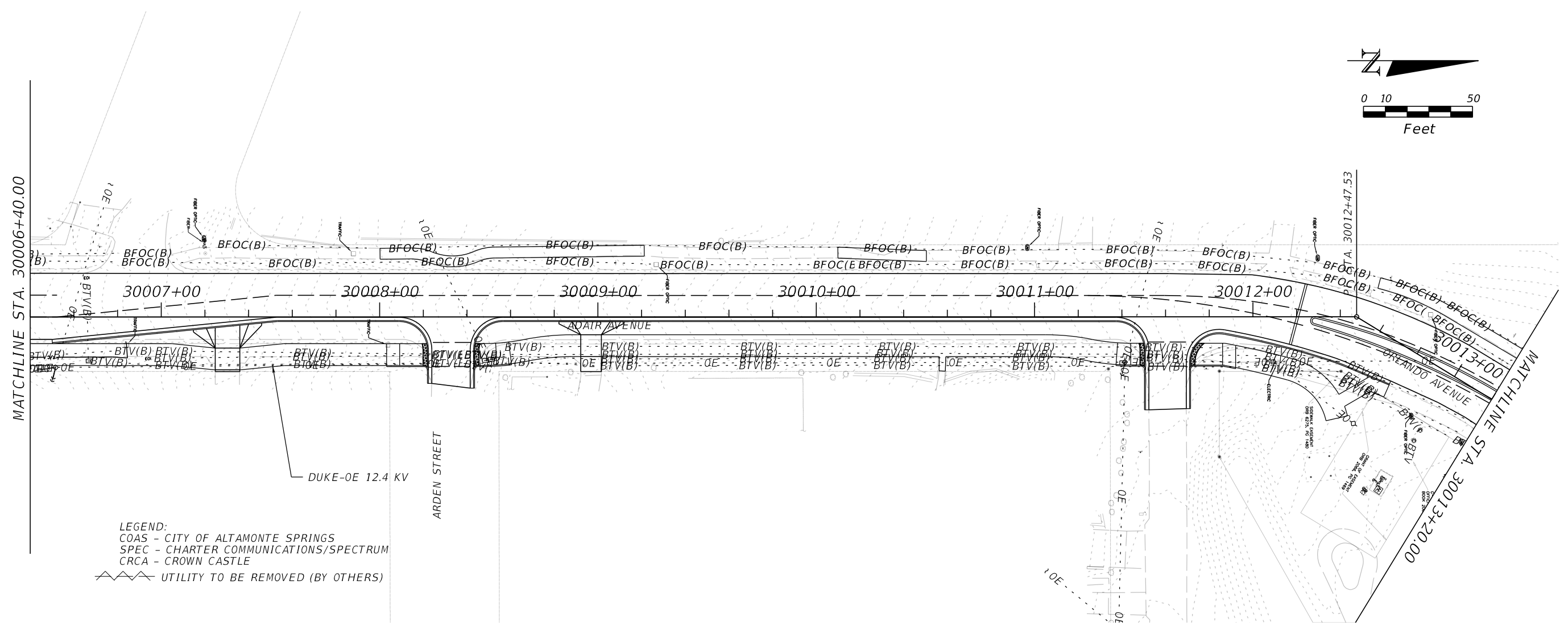
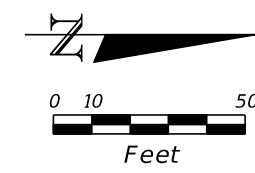
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		<i>UTILITY ADJUSTMENT</i>	SHEET NO. U-12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084			



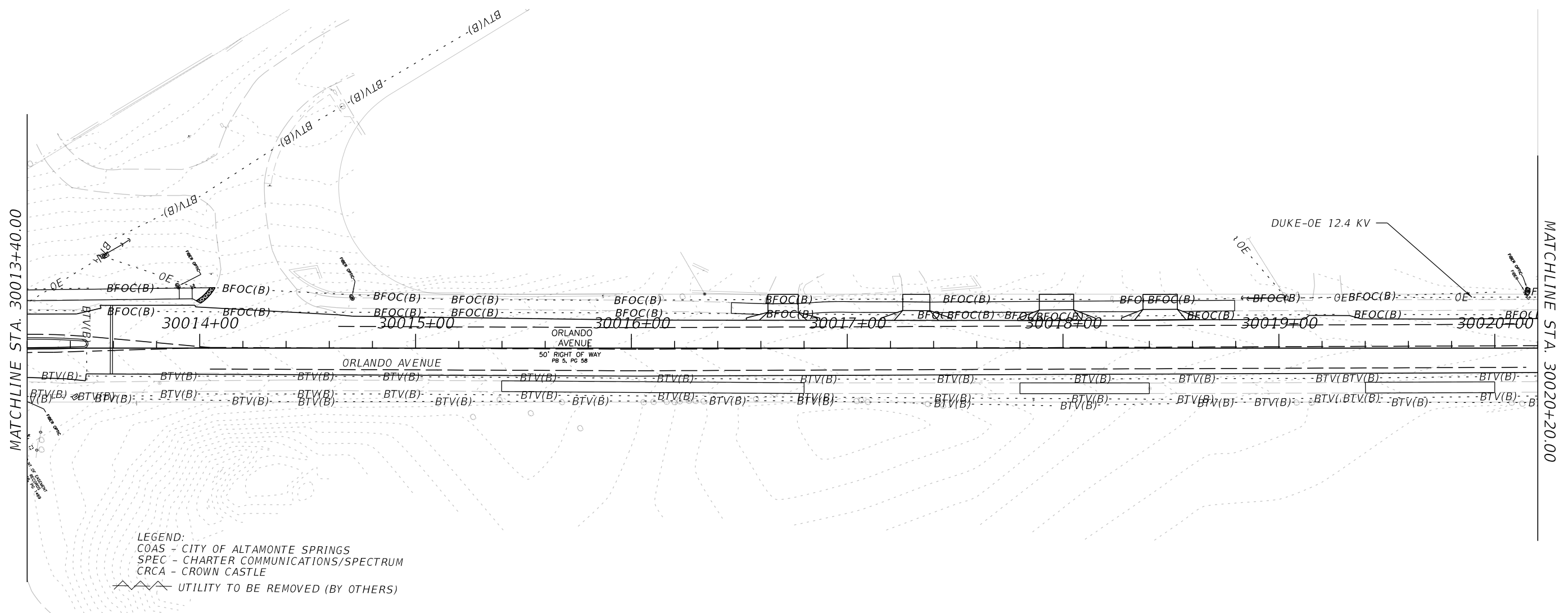
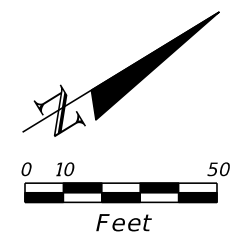
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		UTILITY ADJUSTMENT	SHEET NO. U-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084			



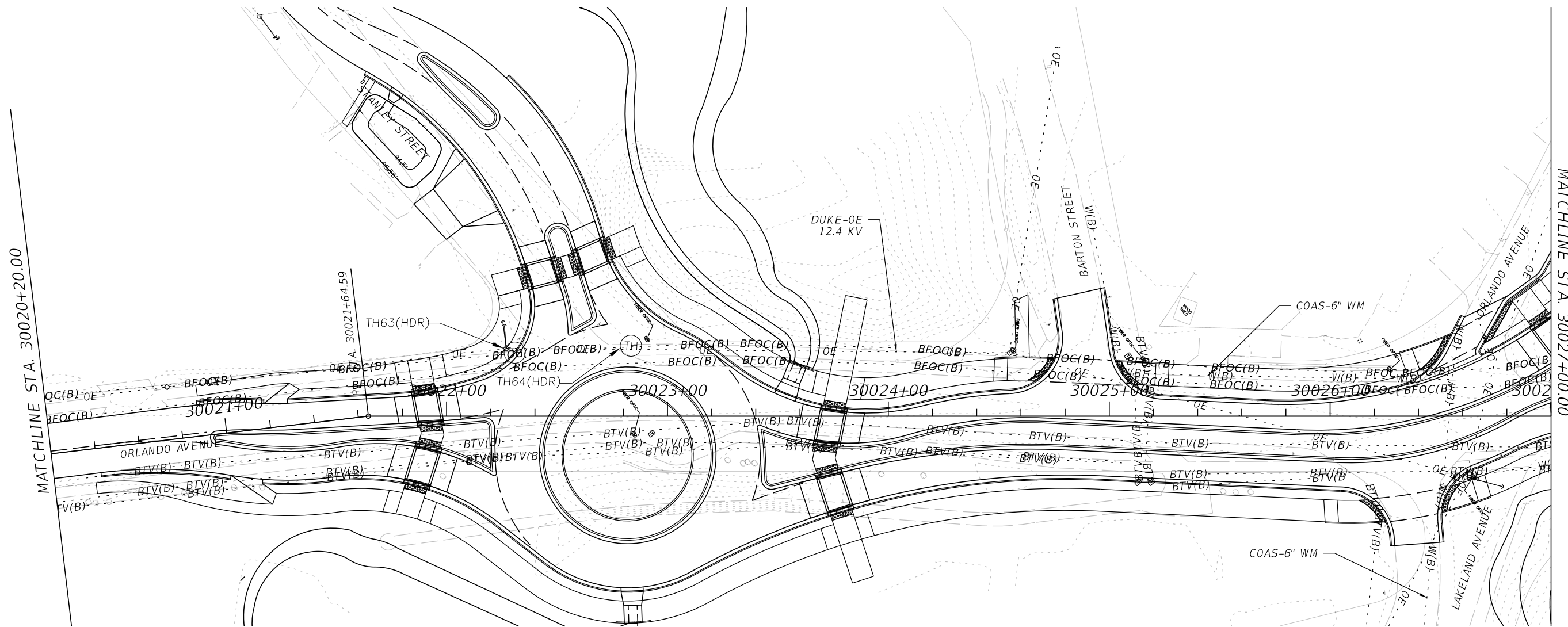
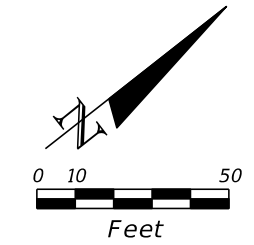
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		UTILITY ADJUSTMENT	SHEET NO. U-14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084			



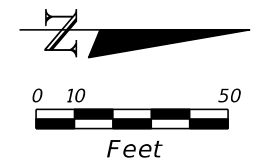
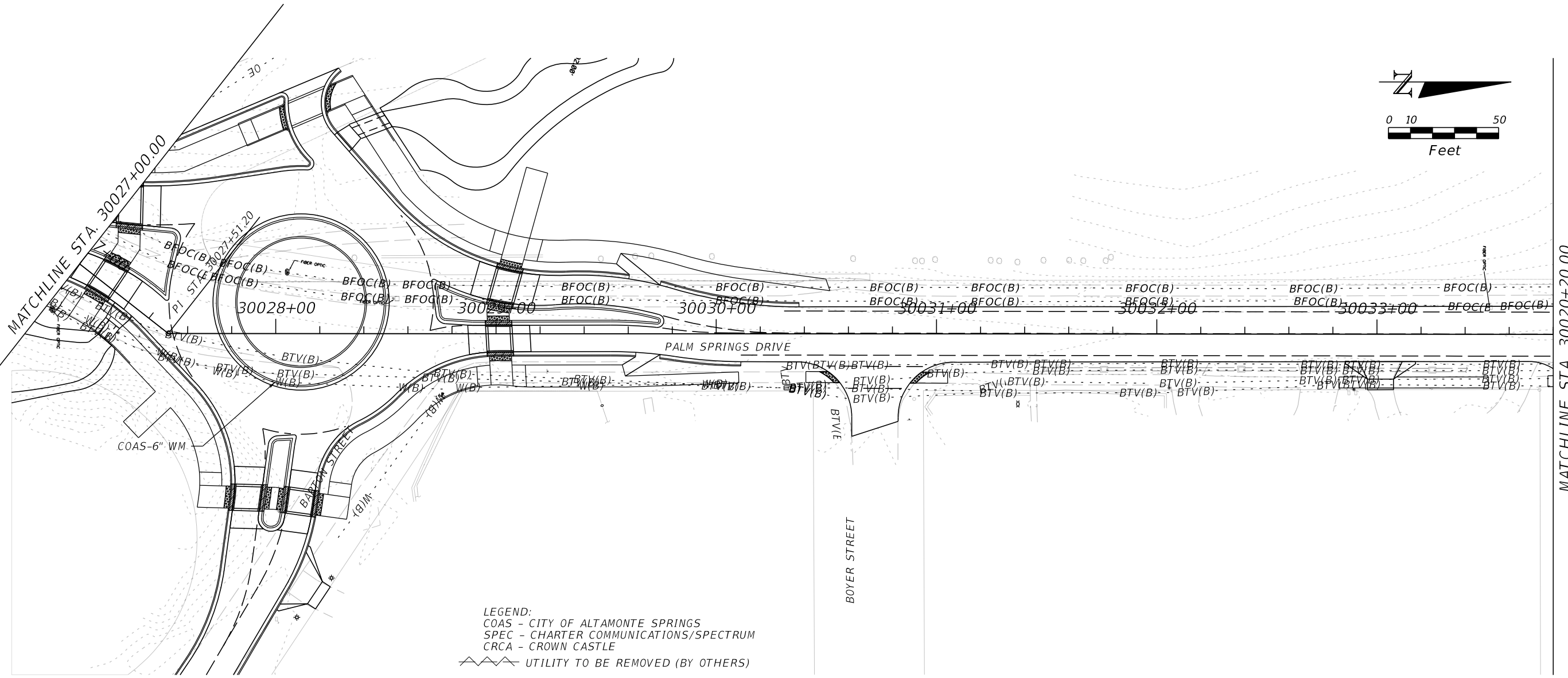
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		<i>UTILITY ADJUSTMENT</i>	SHEET NO. U-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084			

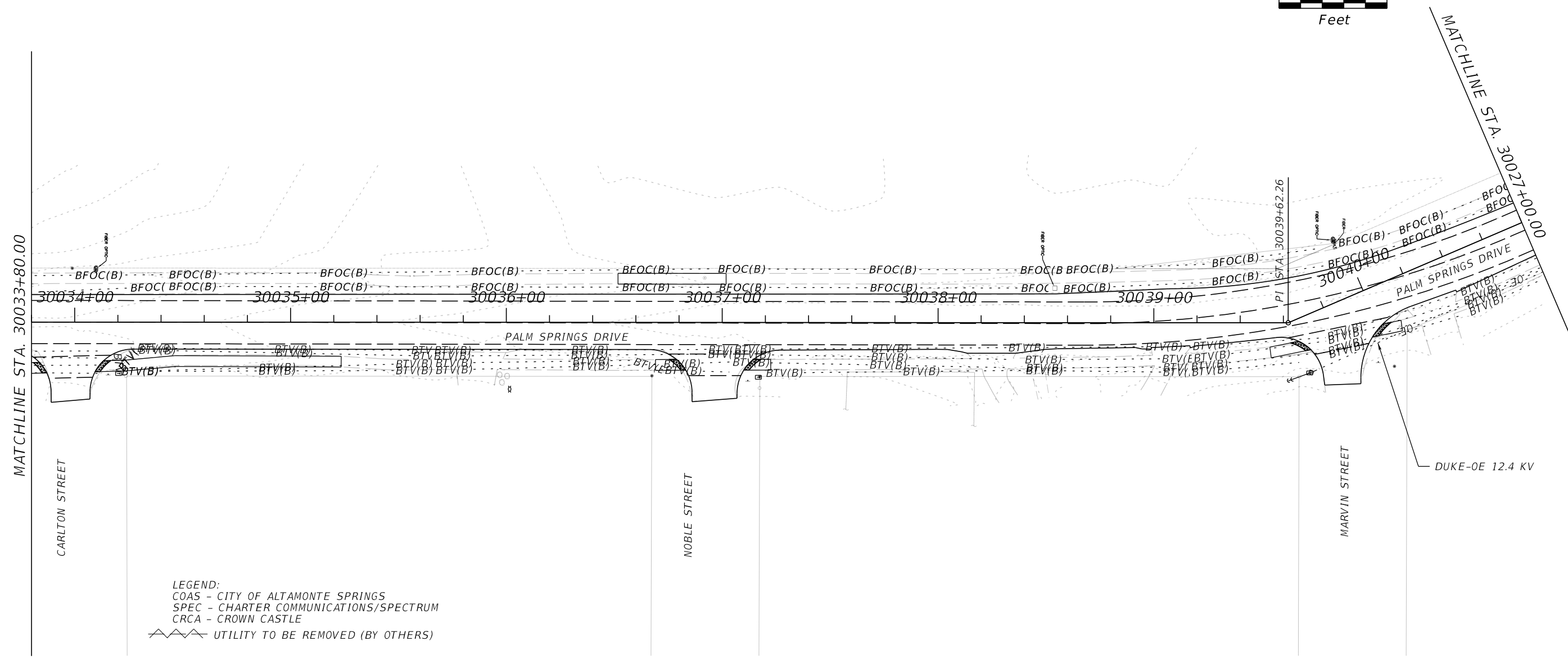
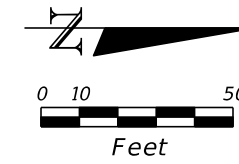


LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

REVISIONS		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

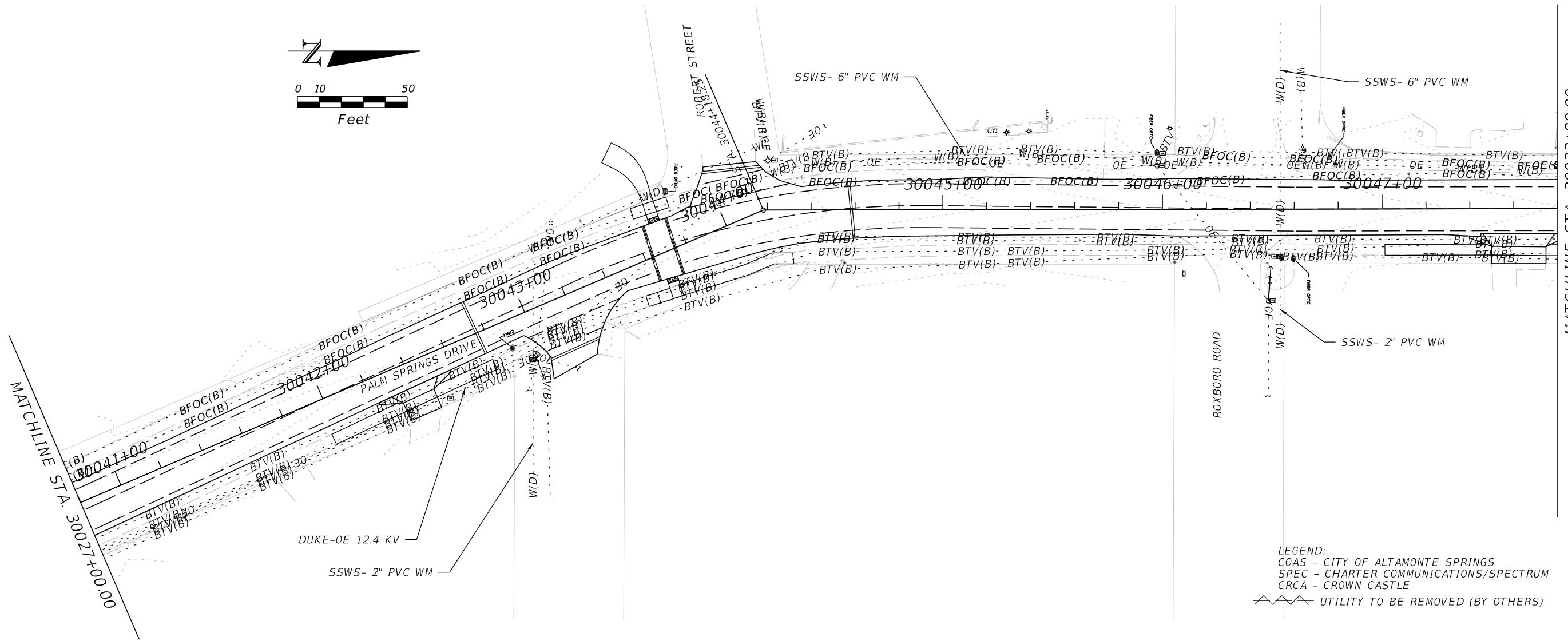
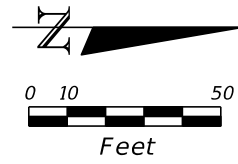


REVISIONS				MICHAEL HARTER, P.E. P.E. LICENSE NUMBER 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PARKWAY SUITE 180 MAITLAND, FLORIDA 32751 CERTIFICATE OF AUTHORIZATION NO. 5993	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		UTILITY ADJUSTMENT	SHEET NO. U-17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



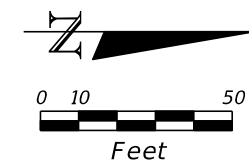
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		UTILITY ADJUSTMENT	SHEET NO. U-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084			



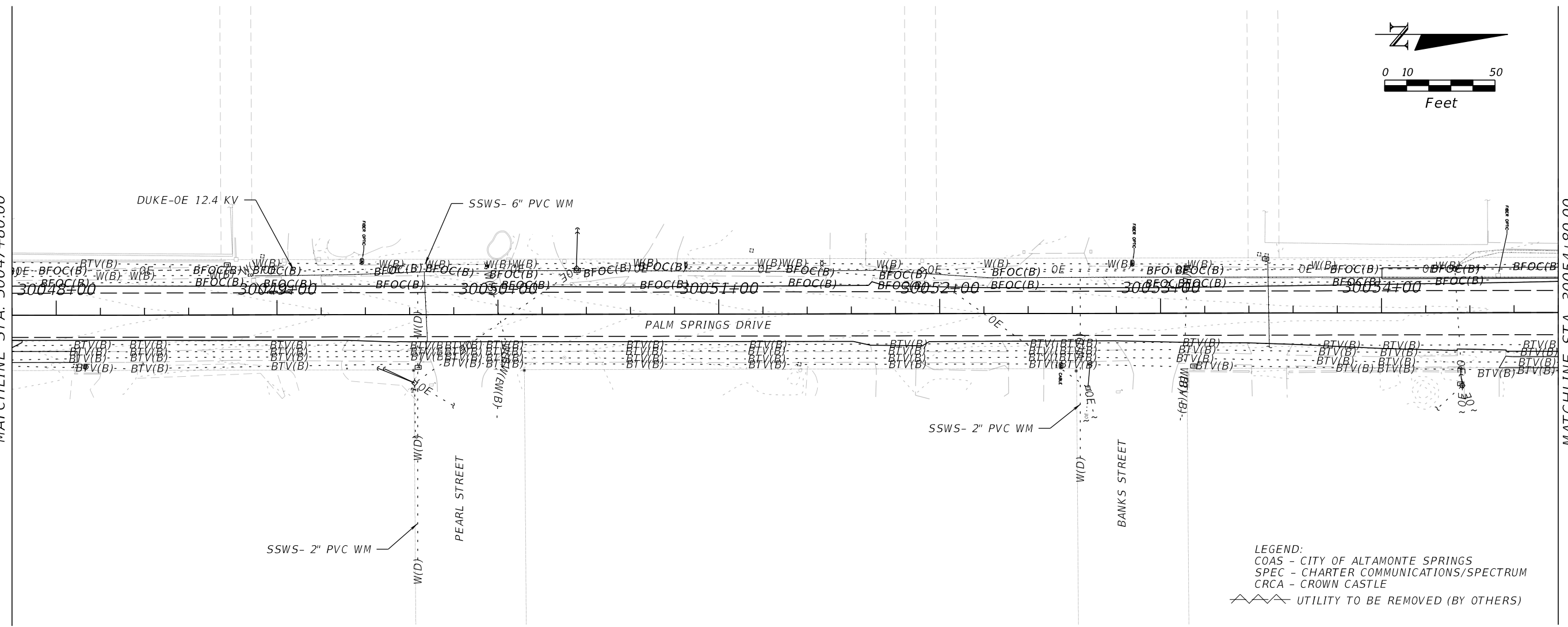
LEGEND:
 COAS - CITY OF ALTAMONTE SPRINGS
 SPEC - CHARTER COMMUNICATIONS/SPECTRUM
 CRCA - CROWN CASTLE
 UTILITY TO BE REMOVED (BY OTHERS)

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		UTILITY ADJUSTMENT	SHEET NO. U-19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084			



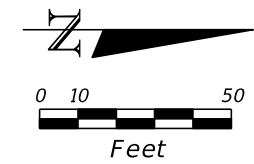
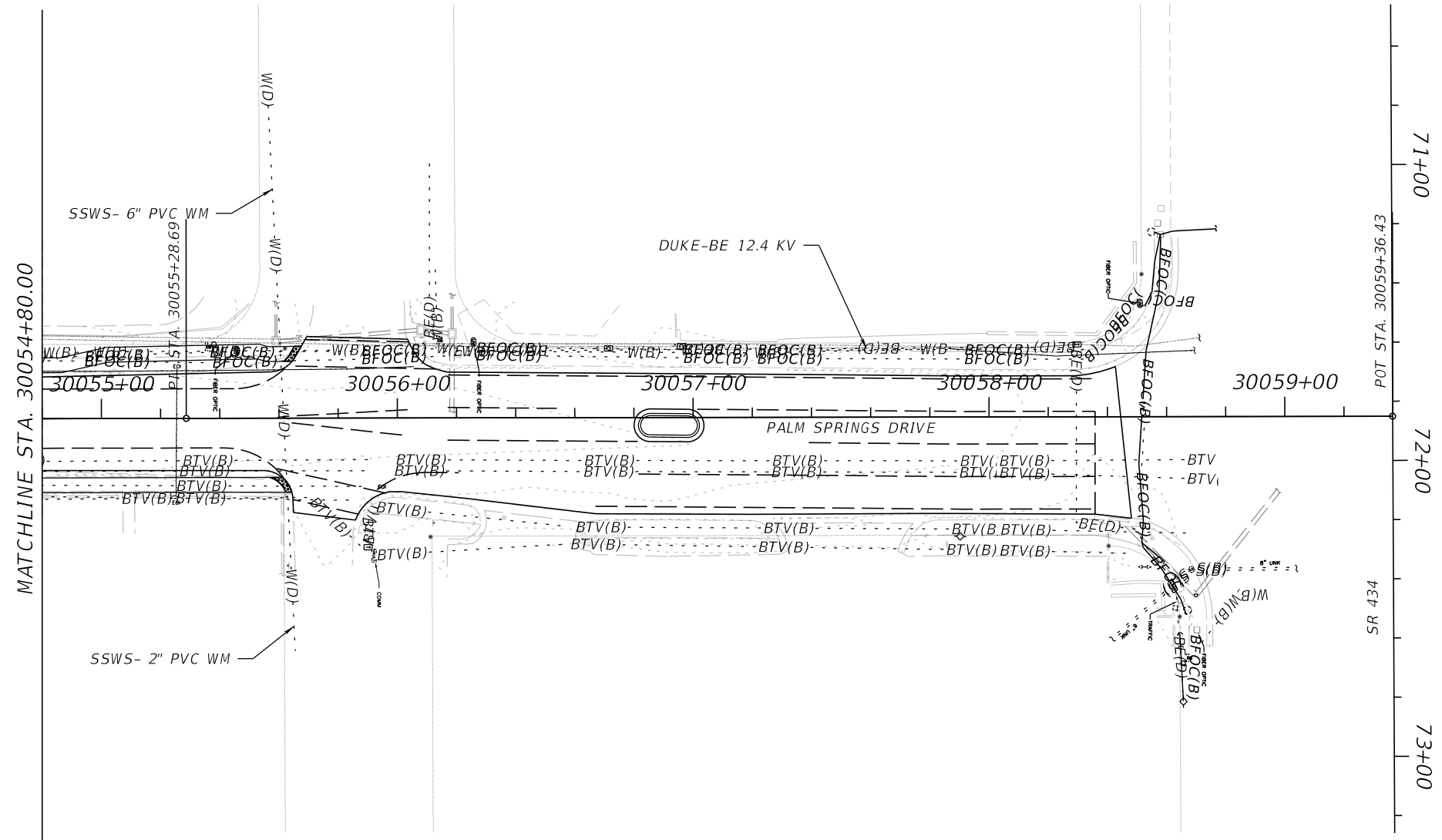
MATCHLINE STA. 30047+80.00

MATCHLINE STA. 30054+80.00



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		UTILITY ADJUSTMENT	SHEET NO. U-20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
				RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084			



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-21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.	
					RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084	

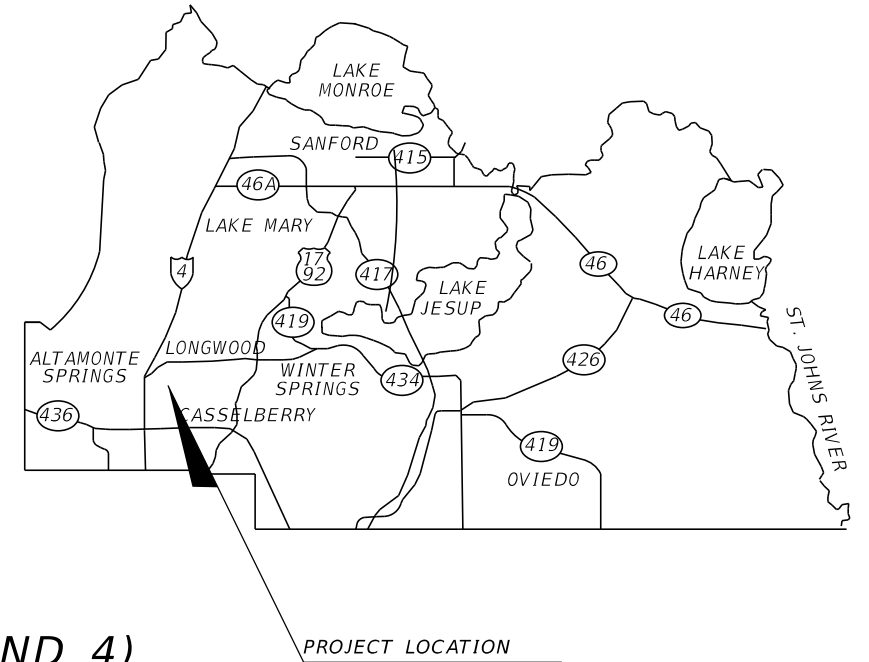
*SEMINOLE COUNTY
ENGINEERING DIVISION*

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

**90% PLANS
SEPTEMBER 2022**

*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:
ANGELA CARDONA, PE
ENGINEERING DIVISION
100 EAST 1st STREET
SANFORD, FL 32771*

<i>FISCAL YEAR</i>	<i>SHEET NO.</i>
21-22	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			
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA															
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	7		3			24			5			9		3	50
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12 TO 20 SF	AS						1									1
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21 TO 30 SF	AS						2									2
0700 1 50	SINGLE POST SIGN, RELOCATE	AS			1			1				3					5
0700 1 60	SINGLE POST SIGN, REMOVE	AS	3		3			6				7			3		22
0700 3 101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA										1					1
0700 12 21	SIGN BEACON, F&I GROUND MOUNT- SOLAR POWERED, ONE BEACON	AS										2					2
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B	EA															
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL WHITE / RED)	EA													20		20
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL YELLOW / YELLOW)	EA	32		34			23		12					14		115
	RAISED PAVEMENT MARKERS (MONO-DIRECTIONAL / YELLOW)	EA										96					96
0710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF										32.5					33
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS															
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.260		0.295			0.307		0.078		0.259		0.192			1
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	178		151			411		172		807		168			1887
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	239		12			46		43		161		189			690
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM												0.032			0.032
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT., 6"	GM												0.020			0.020
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM						0.017									0.017
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA						6									6
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA												6			6
*	PAINTED PAVEMENT MESSAGE, STANDARD, WHITE, "YIELD"	EA						3									3
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.247		0.264			0.457		0.083		0.202		0.109			1.362
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF						16						6			22
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM										0.088					0.088
0711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	178		151			411		172		807		168			1887
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	31		12			46		43		161		44			337
0711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA						6									6
0711 11 131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM												0.032			0.032
0711 11 141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM												0.020			0.020
0711 11 144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM						0.017									0.017
0711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE, "YIELD"	EA						3									3
0711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA												6			6
0711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF						16						6			22
0711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM										0.088					0.088
0711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	208											145			353
0711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.260		0.295			0.307		0.078		0.259		0.192			1.391
0711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.247		0.264			0.457		0.083		0.202					1.253
0711 17 1	THERMOPLASTIC, REMOVE EXISTING PAVEMENT MARKINGS, SURFACE TO REMAIN	SF												10			10

* 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				 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		TABULATION OF QUANTITIES	SHEET NO. S-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

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			
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA					1									1	
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		27		7					1			37
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12 TO 20 SF	AS															
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21 TO 30 SF	AS															
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	4				1		1		2		2				9
0700 1 60	SINGLE POST SIGN, REMOVE	AS			2		7		1				1				11
0700 3 101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA					2										2
0700 12 21	SIGN BEACON, F&I GROUND MOUNT- SOLAR POWERED, ONE BEACON	AS					1										1
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B	EA															
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL WHITE / RED)	EA															
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL YELLOW / YELLOW)	EA			30		32		30		30						122
	RAISED PAVEMENT MARKERS (MONO-DIRECTIONAL / YELLOW)	EA									48		82				130
0710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF									21		37				58
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS															
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM			0.242		0.3790		0.2650		0.258		0.2530				1.397
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF					198		478		392						1068
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF							57		28						85
*	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					0.024										0.024
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA					6										6
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA															
*	PAINTED PAVEMENT MESSASGE, STANDARD, WHITE, "YIELD"	EA					4										4
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM			0.220		0.379		0.228		0.155		0.146				1.128
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF					37				17		3				57
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM					0.025				0.062		0.109				0.196
0711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF					198		478		392						1068
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF							27		28						55
0711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA					6										6
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					0.024										0.024
0711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE, "YIELD"	EA					4										4
0711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA															
0711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF					37				17		3				57
0711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM					0.025				0.062		0.109				0.196
0711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF							30.000								30.000
0711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM			0.242		0.379		0.265		0.258		0.253				1.397
0711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM			0.220		0.379		0.228		0.155		0.146				1.128
0711 17 1	THERMOPLASTIC, REMOVE EXISTING PAVEMENT MARKINGS, SURFACE TO REMAIN	SF															

* 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

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		
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA														
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	1		1		16		23		1		5		47	
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12 TO 20 SF	AS							1						1	
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21 TO 30 SF	AS														
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	2						3		1		3		9	
0700 1 60	SINGLE POST SIGN, REMOVE	AS	1		1		5		9		1		2		19	
0700 3 101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA							2						2	
0700 12 21	SIGN BEACON, F&I GROUND MOUNT- SOLAR POWERED, ONE BEACON	AS							3						3	
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B	EA														
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL WHITE / RED)	EA	10												10	
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL YELLOW / YELLOW)	EA	32		54		44		33		32		31		226	
	RAISED PAVEMENT MARKERS (MONO-DIRECTIONAL / YELLOW)	EA														
0710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF														
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS														
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.281		0.270		0.356		0.305		0.272		0.271		2	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	410		98		167		521		247		347		1790	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	462		9				55		19		87		632	
*	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		0.017						0.028	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA					6		6						12	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	4.00												4	
*	PAINTED PAVEMENT MESSASGE, STANDARD, WHITE, "YIELD"	EA					3		3						6	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.213		0.310		0.377		0.342		0.243		0.232		1.717	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	11		39		50		36						136	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM														
0711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	410		98		167		521		247		347		1790	
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF		70		9				55		19		32		185
0711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA						6		6					12	
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		0.017						0.028	
0711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE, "YIELD"	EA						3		3					6	
0711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA		4											4	
0711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF		11		39		50		36					136	
0711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM														
0711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF		392									55		447	
0711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.281		0.270		0.356		0.305		0.272		0.271		1.754	
0711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.213		0.310		0.377		0.342		0.243		0.232		1.717	
0711 17 1	THERMOPLASTIC, REMOVE EXISTING PAVEMENT MARKINGS, SURFACE TO REMAIN	SF														

* 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-4

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								
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA												1
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		137
0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12 TO 20 SF	AS												2
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21 TO 30 SF	AS												2
0700 1 50	SINGLE POST SIGN, RELOCATE	AS												23
0700 1 60	SINGLE POST SIGN, REMOVE	AS	2		3							5		57
0700 3 101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA												5
0700 12 21	SIGN BEACON, F&I GROUND MOUNT- SOLAR POWERED, ONE BEACON	AS												6
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B	EA												6
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL WHITE / RED)	EA												
	RAISED PAVEMENT MARKERS (BI-DIRECTIONAL YELLOW / YELLOW)	EA	31		30							61		91
	RAISED PAVEMENT MARKERS (MONO-DIRECTIONAL / YELLOW)	EA												463
0710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF												226
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS												91
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.247		0.225							0.472		0.472
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF			425							425		430
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF			182							182		1589
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM												0.032
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT., 6"	GM			0.01							0.01		0.029
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM												0.069
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA												24
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA			8							8		18
*	PAINTED PAVEMENT MESSASGE, STANDARD, WHITE, "YIELD"	EA												13
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.235		0.178							0.413		4.620
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF			19							19		234
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT., 6"	GM			0.021							0.021		0.305
0711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF			425							425		5170
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF			33							33		610
0711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA												24
0711 11 131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM												0.032
0711 11 141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM			0.01							0.009		0.029
0711 11 144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION, 12" LINE FOR ROUNDABOUT	GM												0.069
0711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE, "YIELD"	EA												13
0711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA			6							8		18
0711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF			19							19		234
0711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM			0.021							0.021		0.305
0711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF			149							149		979
0711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.247		0.225							0.472		5.015
0711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.235		0.178							0.413		4.511
0711 17 1	THERMOPLASTIC, REMOVE EXISTING PAVEMENT MARKINGS, SURFACE TO REMAIN	SF												10

* 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

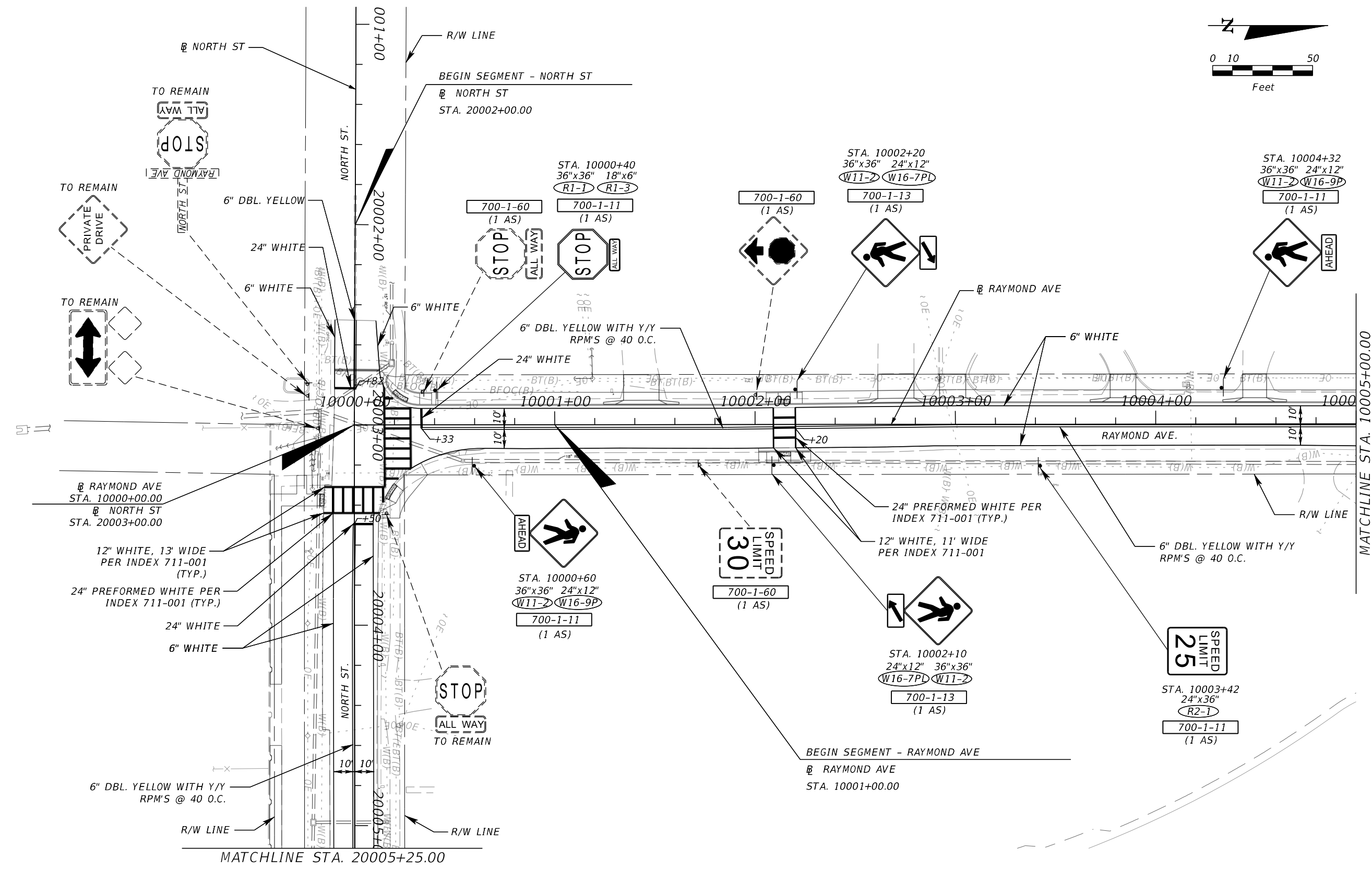
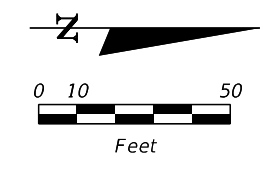
SHEET NO.

S-5

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					SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		<h2 style="margin: 0;">GENERAL NOTES</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		S-6
				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		



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

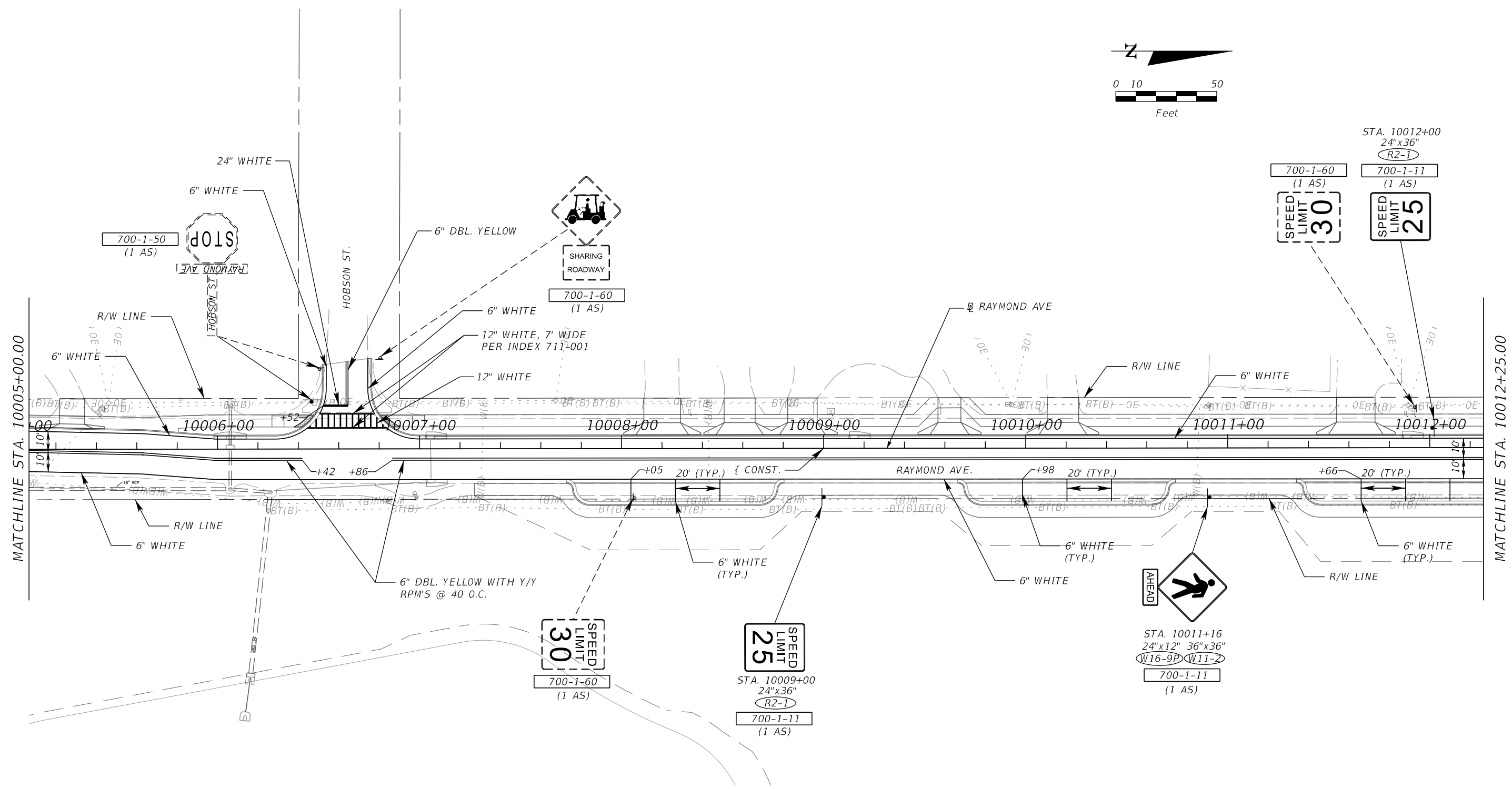
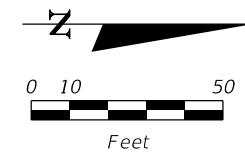


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SIGNING AND
 PAVEMENT MARKING PLANS
 RAYMOND AVENUE (1)

SHEET
 NO.
 S-7



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

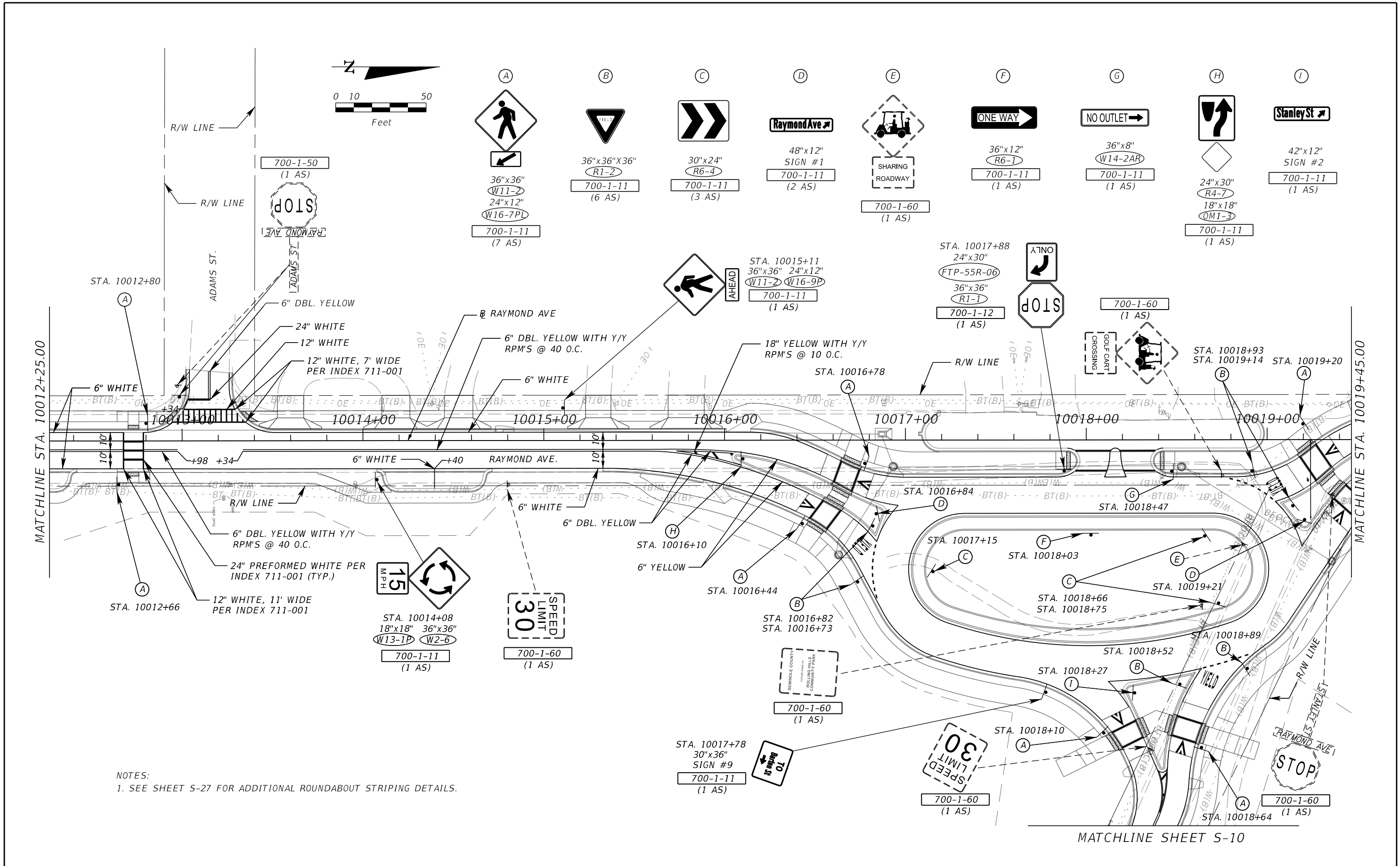


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SIGNING AND
 PAVEMENT MARKING PLANS
 RAYMOND AVENUE (2)

SHEET NO.
 S-8



NOTES:
 1. SEE SHEET S-27 FOR ADDITIONAL ROUNDABOUT 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

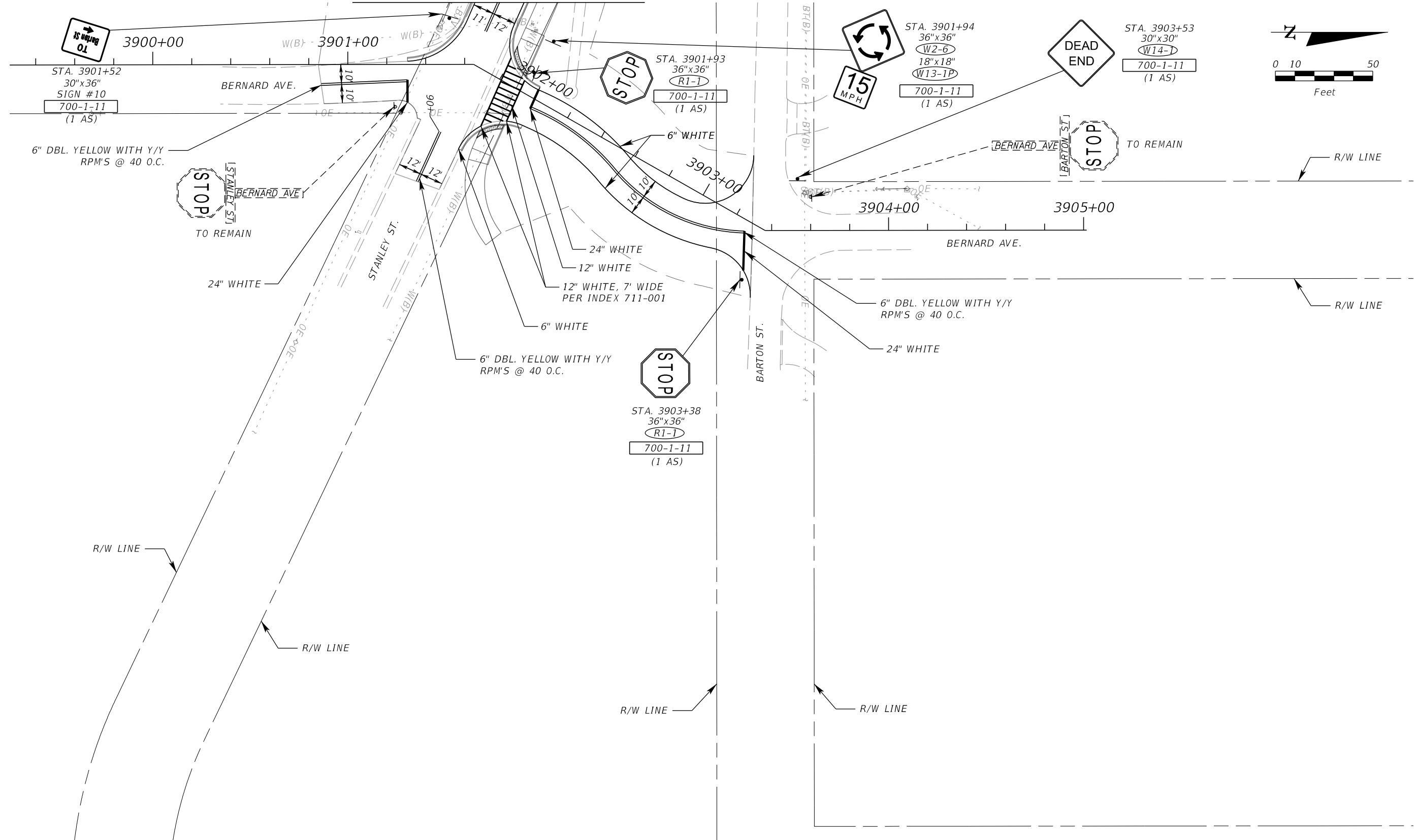


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1
 ROAD: RAYMOND AVE., NORTH ST., PALM SPRINGS DR.
 COUNTY CIP No.: 01907084

SIGNING AND PAVEMENT MARKING PLANS
 RAYMOND AVENUE (3)

SHEET NO.
 S-9

MATCHLINE SHEET S-9



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

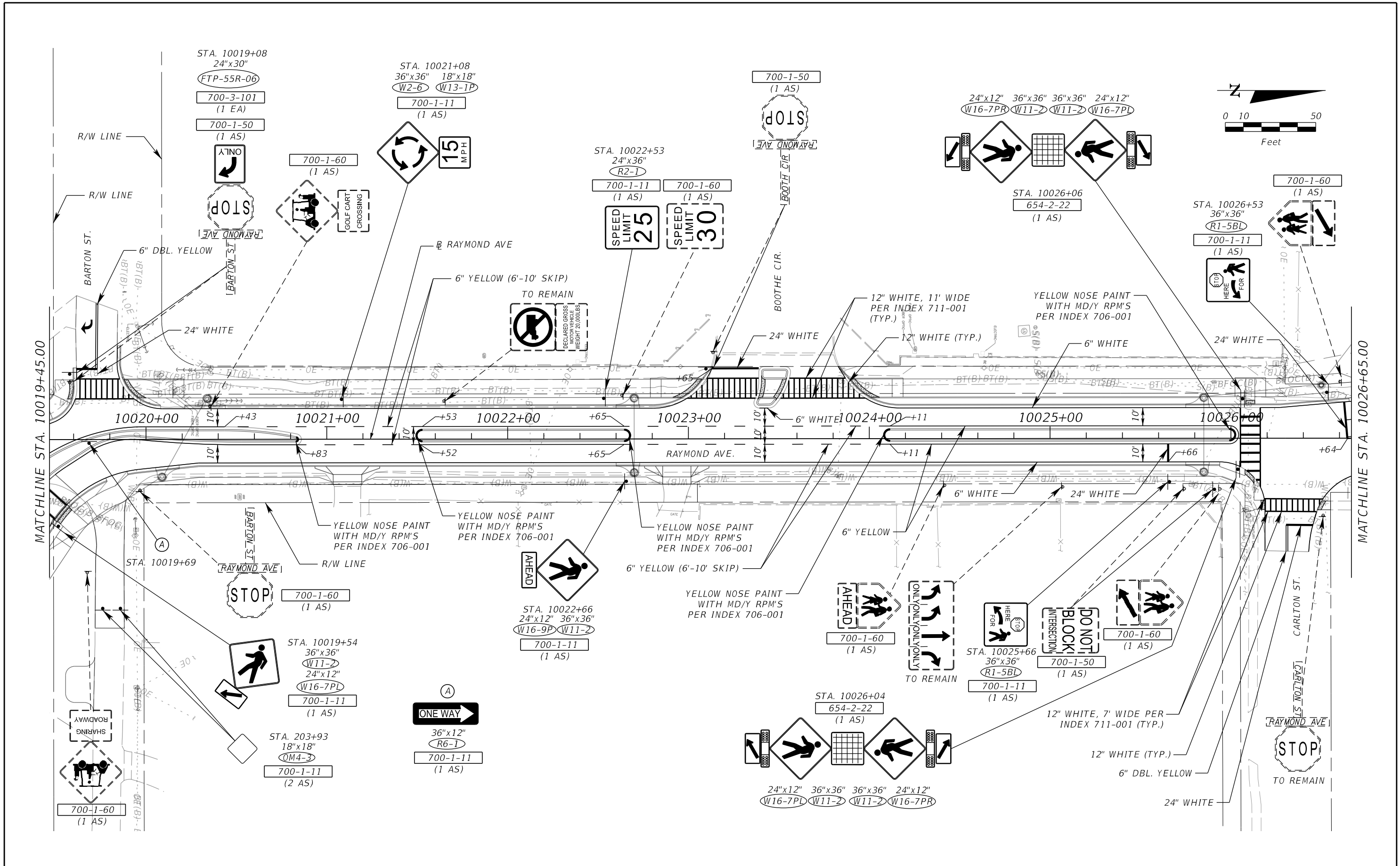


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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


SIGNING AND
 PAVEMENT MARKING PLANS
 RAYMOND AVENUE (4)

SHEET
 NO.
 S-10



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

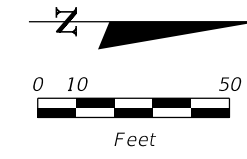
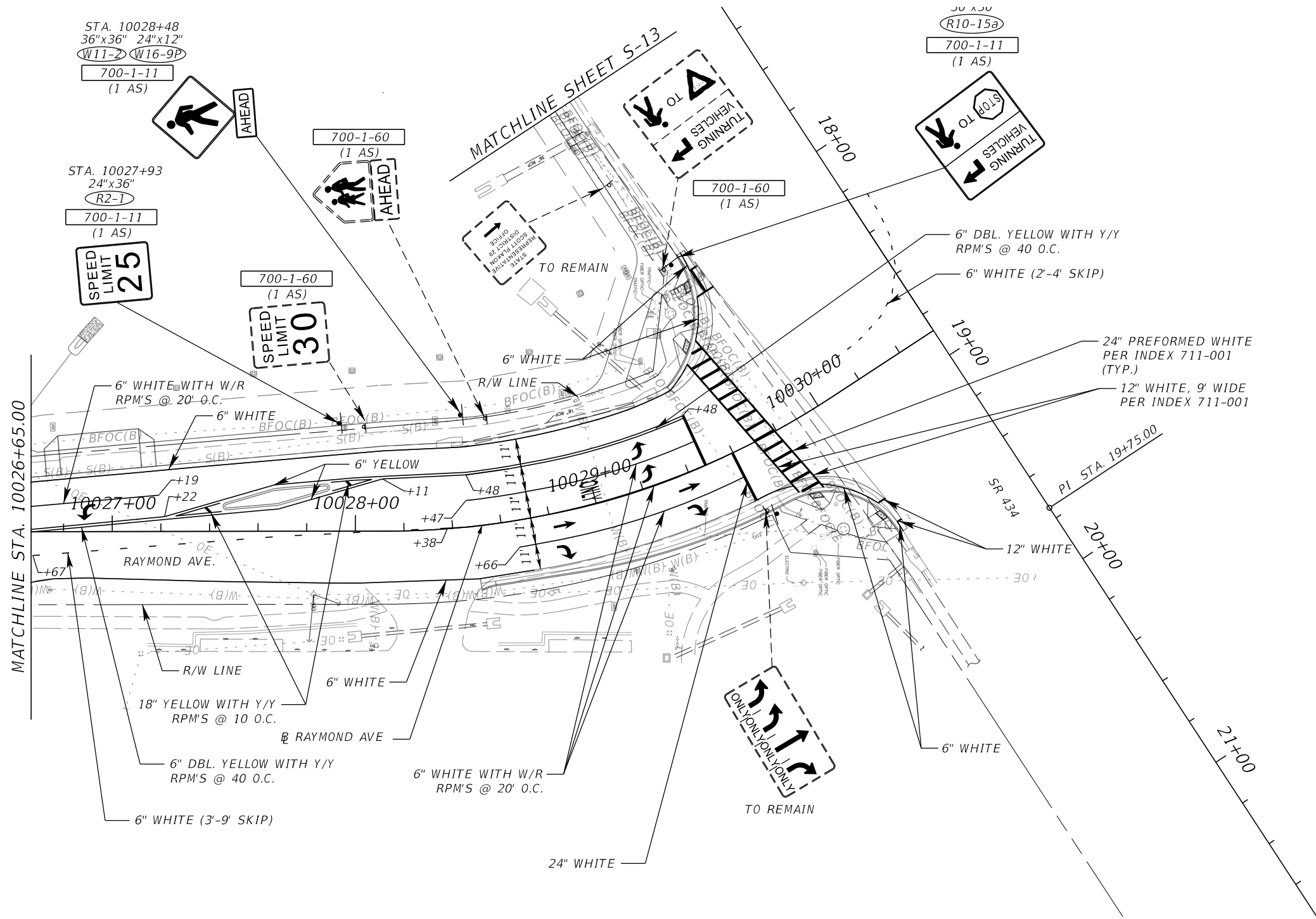


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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


SIGNING AND PAVEMENT MARKING PLANS
 RAYMOND AVENUE (5)

SHEET NO.
 S-11



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

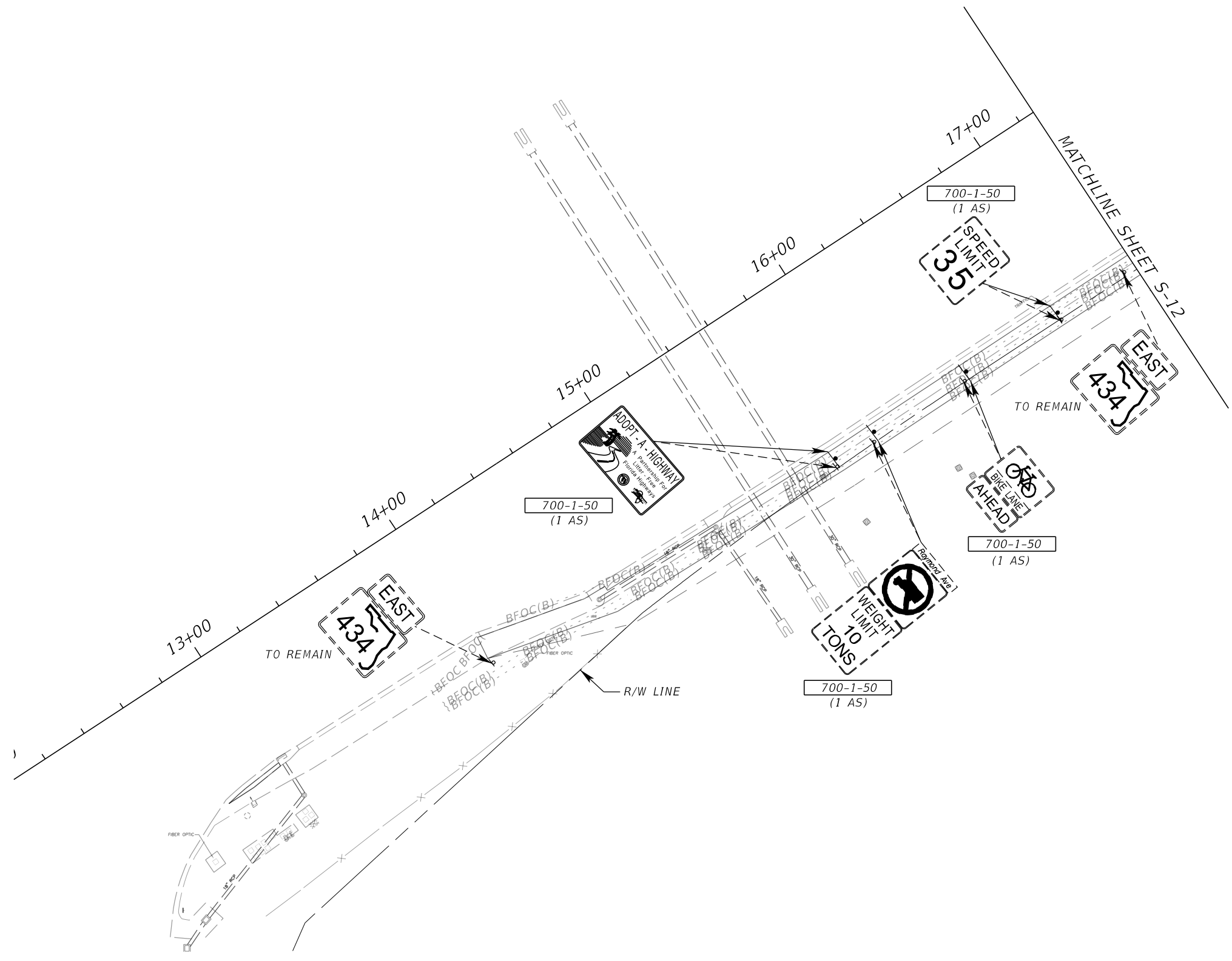
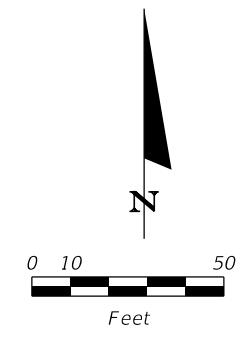


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1


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

SIGNING AND
 PAVEMENT MARKING PLANS
 RAYMOND AVENUE (6)

SHEET NO.
 S-12



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

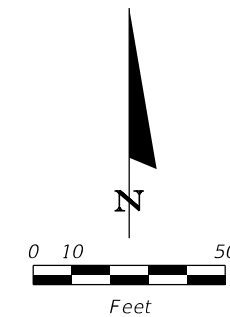


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

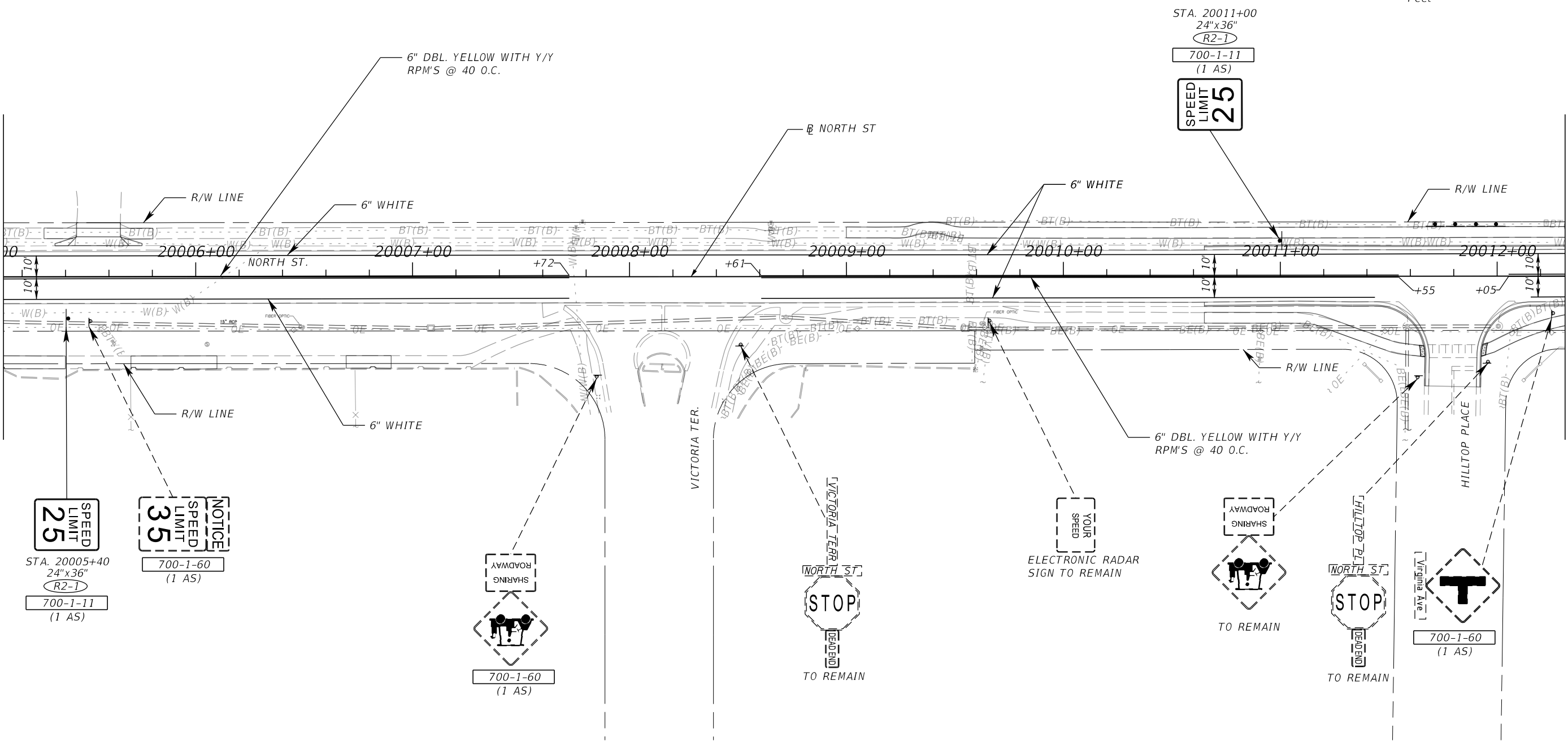
SIGNING AND
 PAVEMENT MARKING PLANS
 SR 434 (6)

SHEET NO.
 S-13



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

MATCHLINE STA. 20012+30.00



STA. 20005+40
24"x36"
R2-1
700-1-11
(1 AS)

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

ROADWAY
SHARING
700-1-60
(1 AS)

VICTORIA TER
NORTH ST.
STOP
TO REMAIN

ELECTRONIC RADAR
SIGN TO REMAIN

ROADWAY
SHARING
TO REMAIN

HILLTOP PL.
NORTH ST.
STOP
TO REMAIN

700-1-60
(1 AS)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

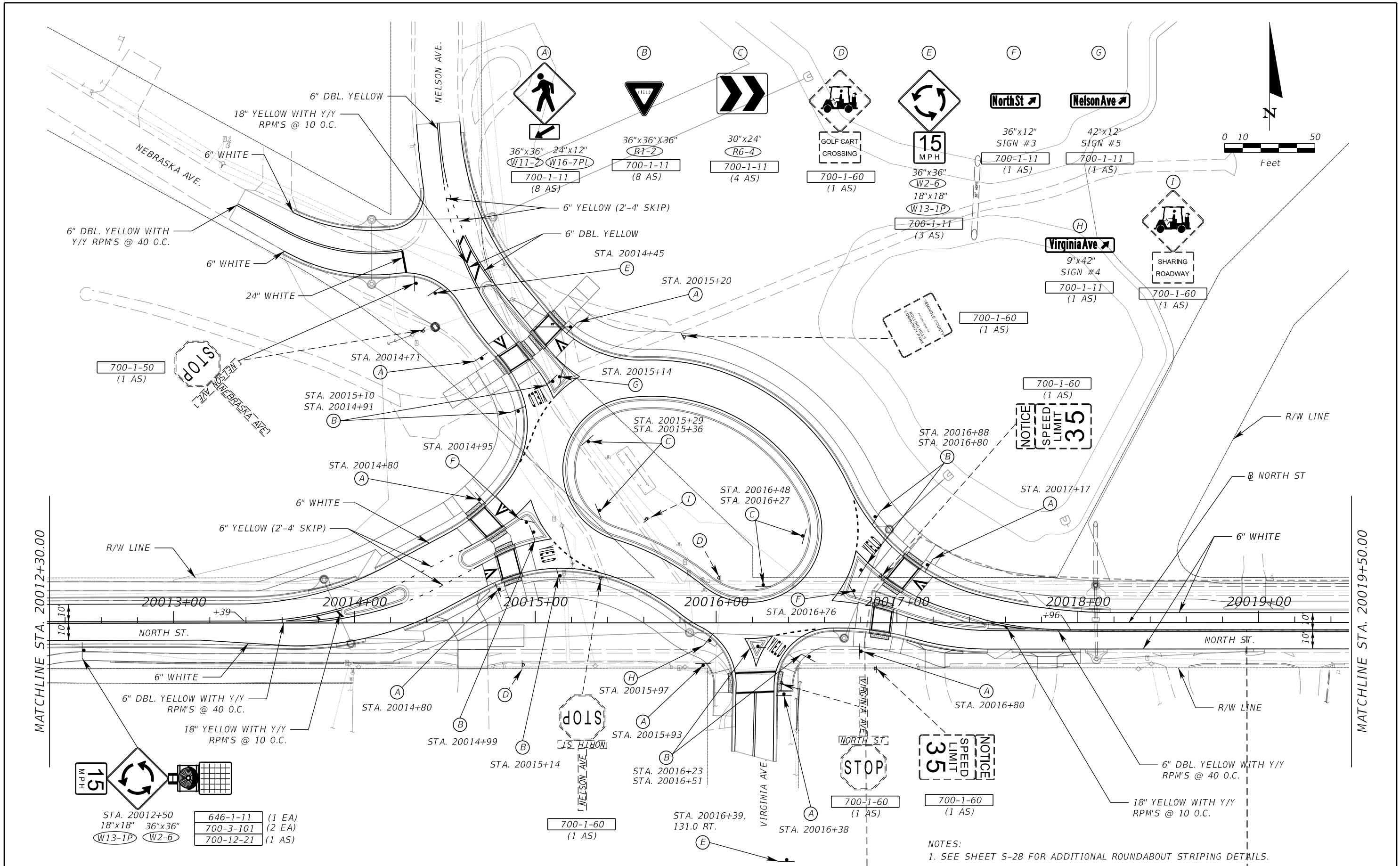
JINHAO MAI, P.E.
LICENSE NO. 91872
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

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



NOTES:
1. SEE SHEET S-28 FOR ADDITIONAL ROUNDABOUT 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

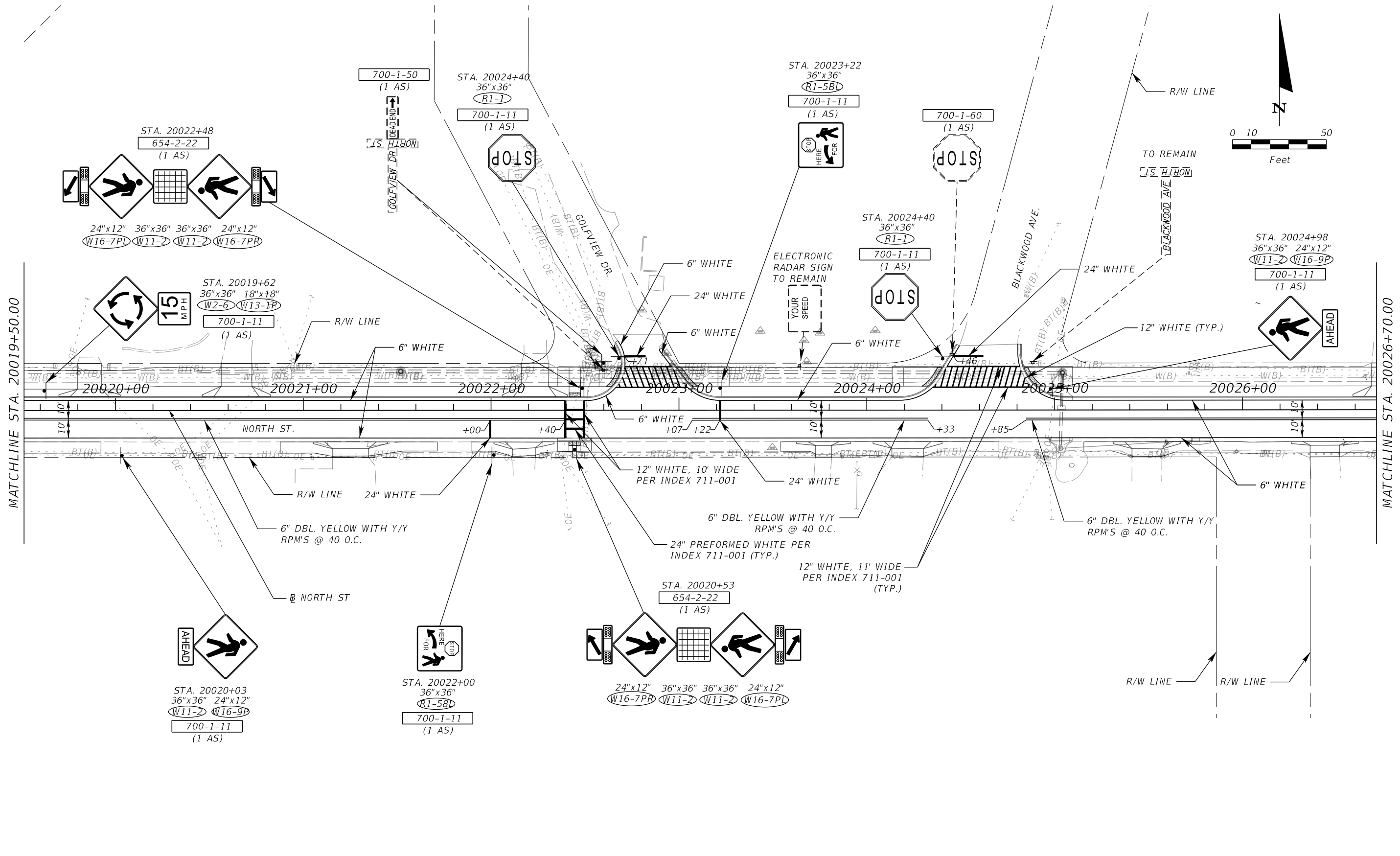


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SIGNING AND PAVEMENT MARKING PLANS
 NORTH STREET (9)

SHEET NO.
S-15



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

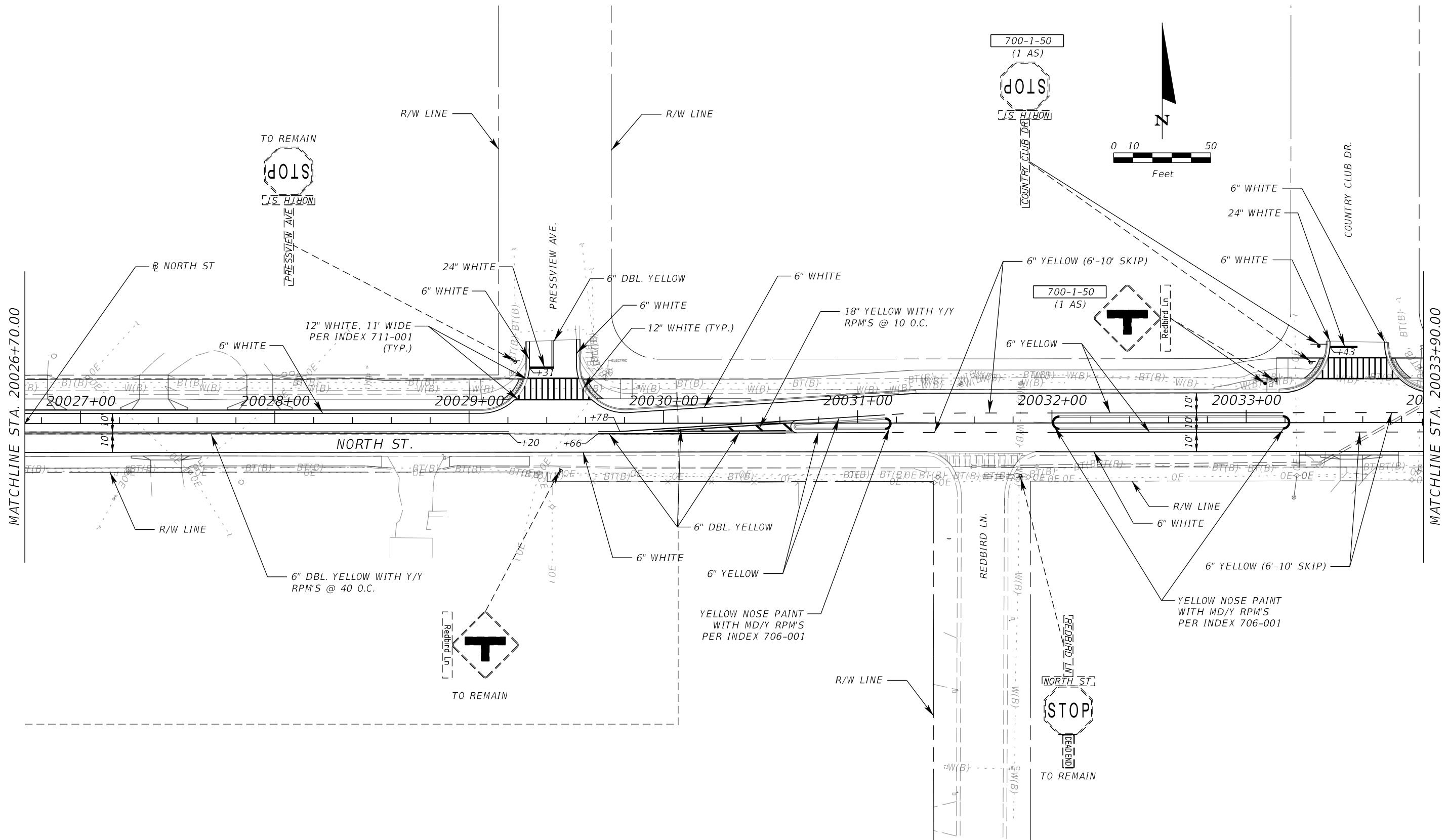


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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


SIGNING AND
 PAVEMENT MARKING PLANS
 NORTH STREET (10)

SHEET NO.
 S-16



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

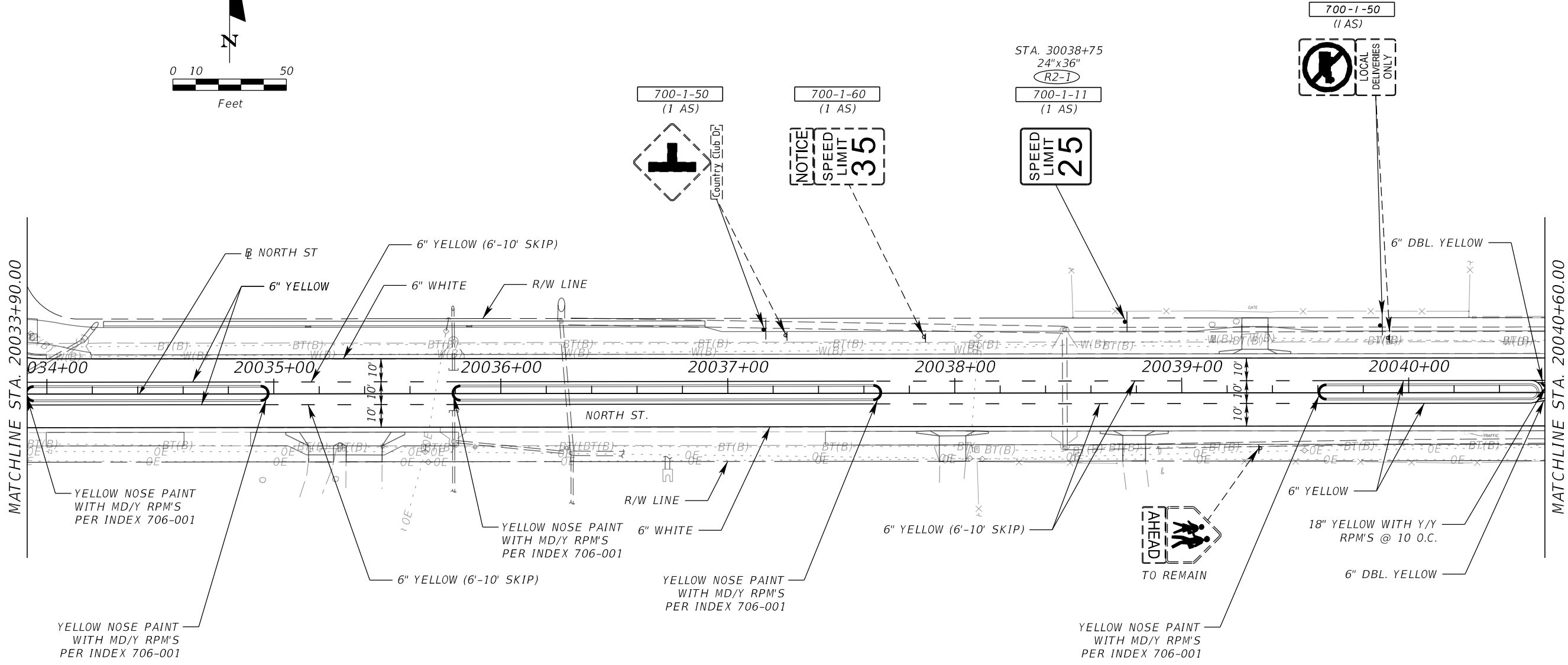
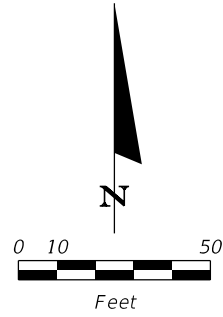


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

SIGNING AND
 PAVEMENT MARKING PLANS
 NORTH STREET (11)

SHEET NO.
 S-17



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

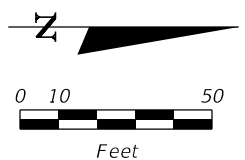
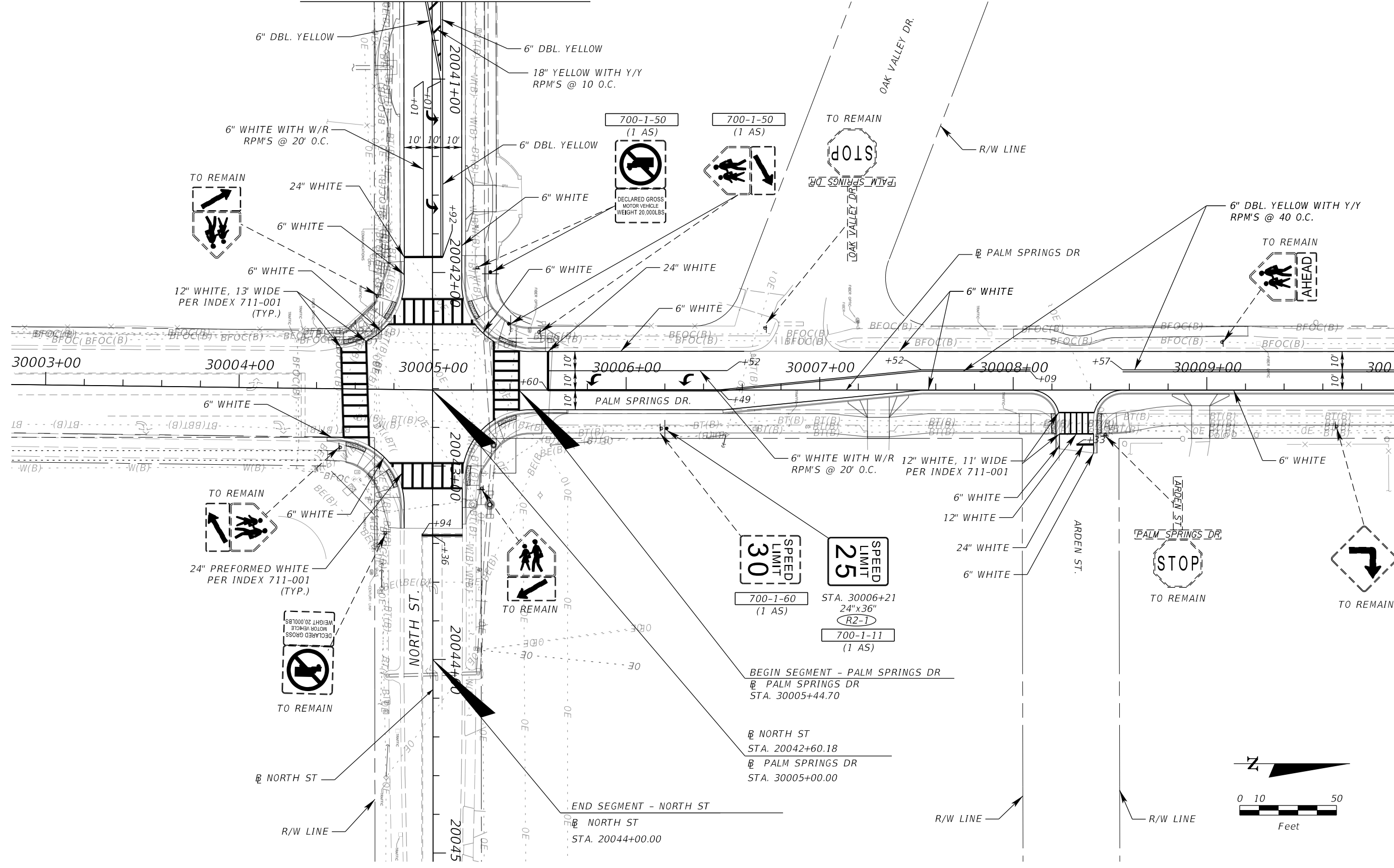
ROAD	COUNTY CIP No.
RAYMOND AVE., NORTH ST., PALM SPRINGS DR.	01907084

SIGNING AND
 PAVEMENT MARKING PLANS
 NORTH STREET (12)

SHEET NO.
 S-18


MATCHLINE STA. 20040+60.00

MATCHLINE STA. 320010+00.00



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

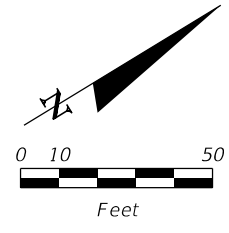
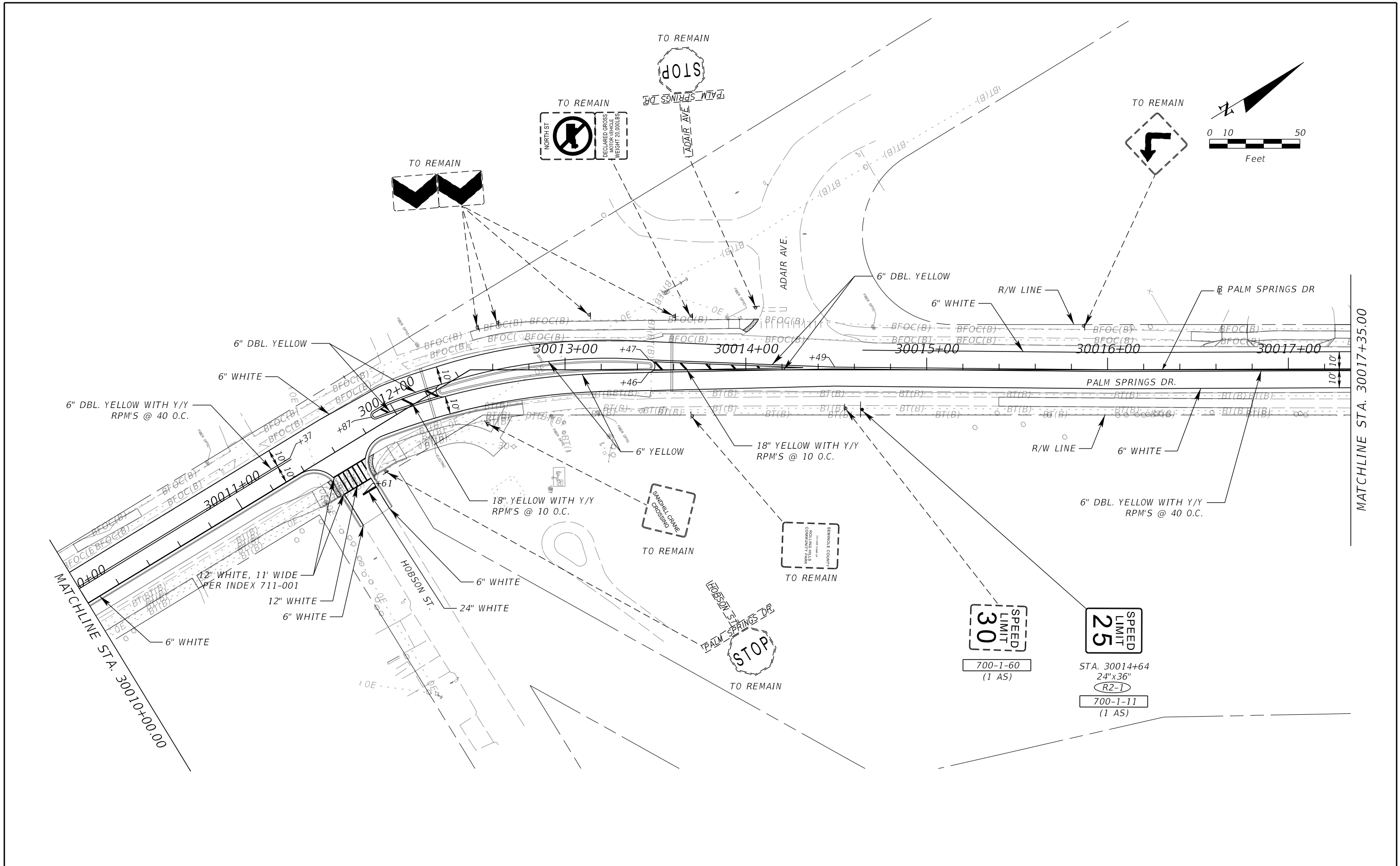


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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



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

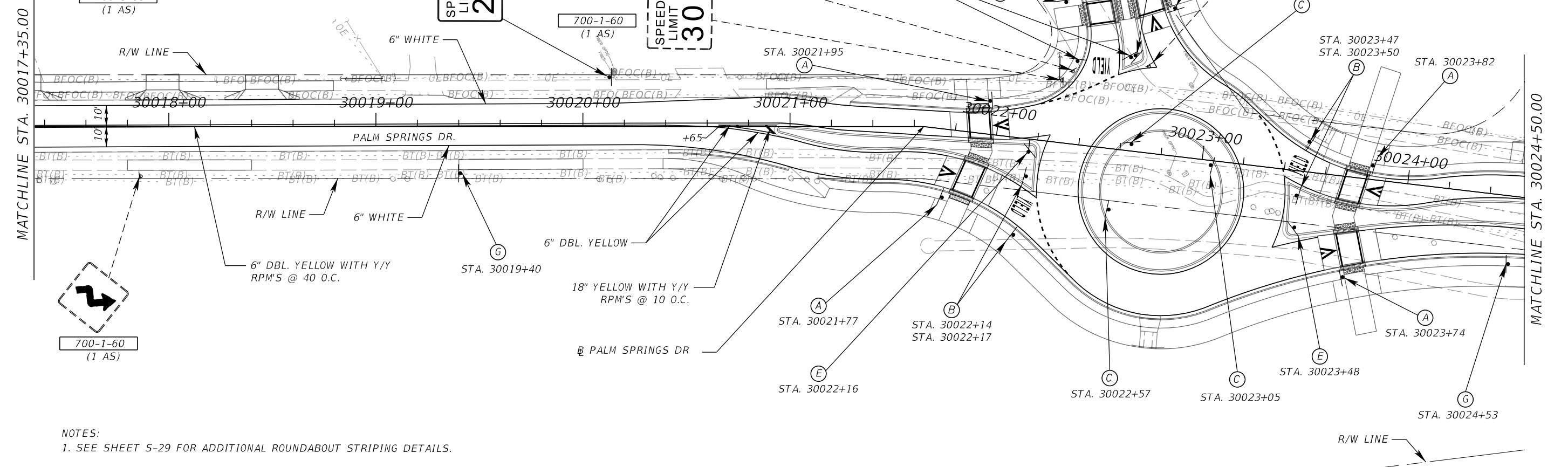
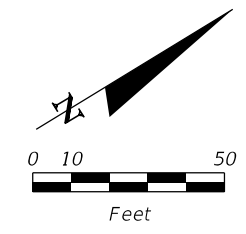
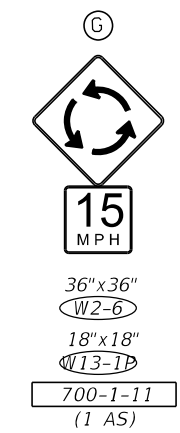
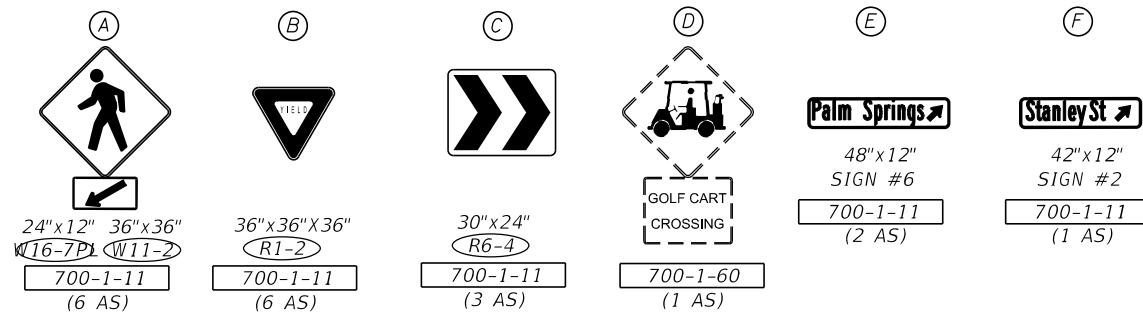


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

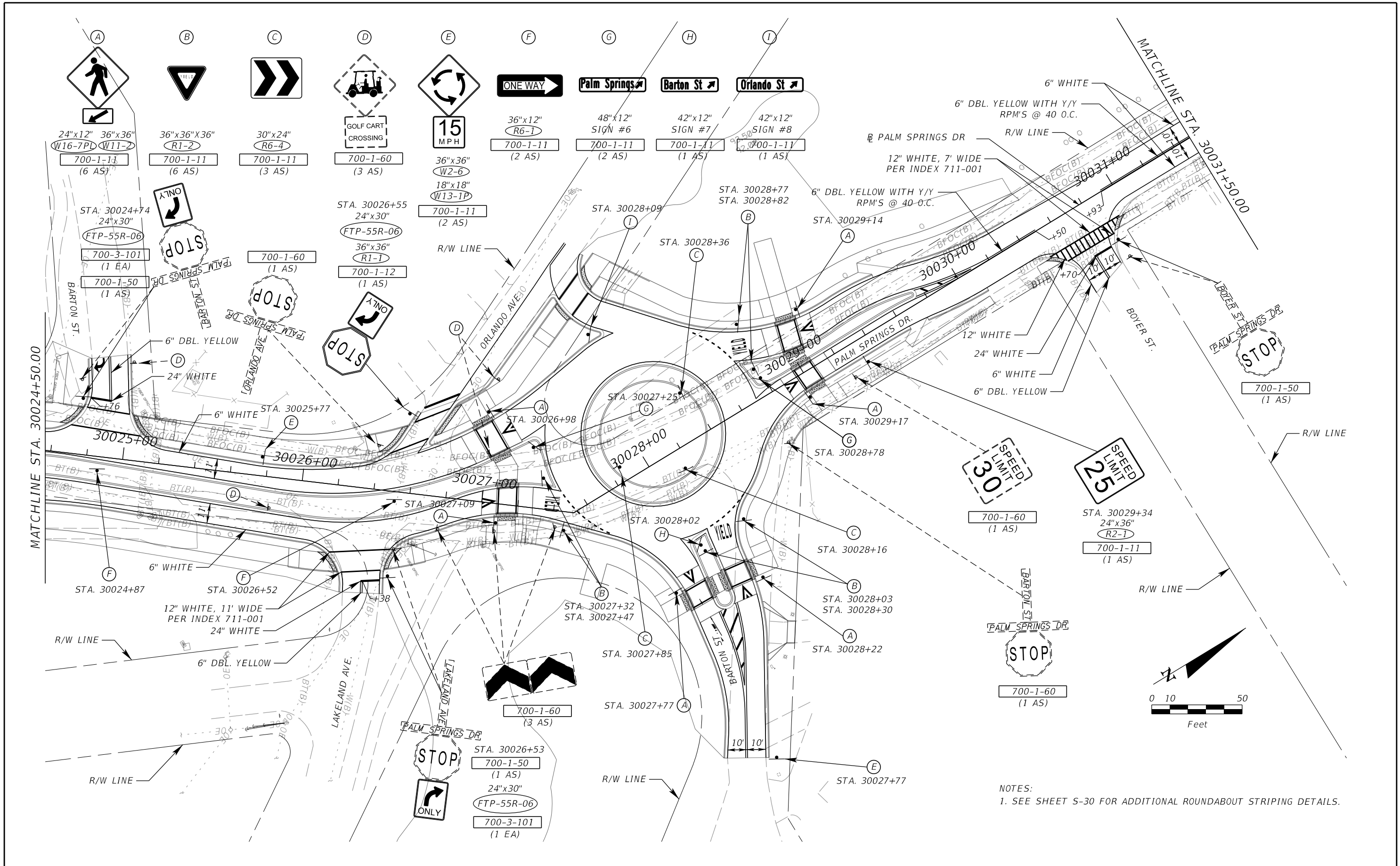
SIGNING AND
 PAVEMENT MARKING PLANS
 PALM SPRINGS DR (14)

SHEET NO.
 S-20



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


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		ROAD COUNTY CIP No.	SIGNING AND PAVEMENT MARKING PLANS PALM SPRINGS DR. (15)	SHEET NO. S-21
DATE	DESCRIPTION	DATE	DESCRIPTION		RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084			



NOTES:
 1. SEE SHEET S-30 FOR ADDITIONAL ROUNDABOUT 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

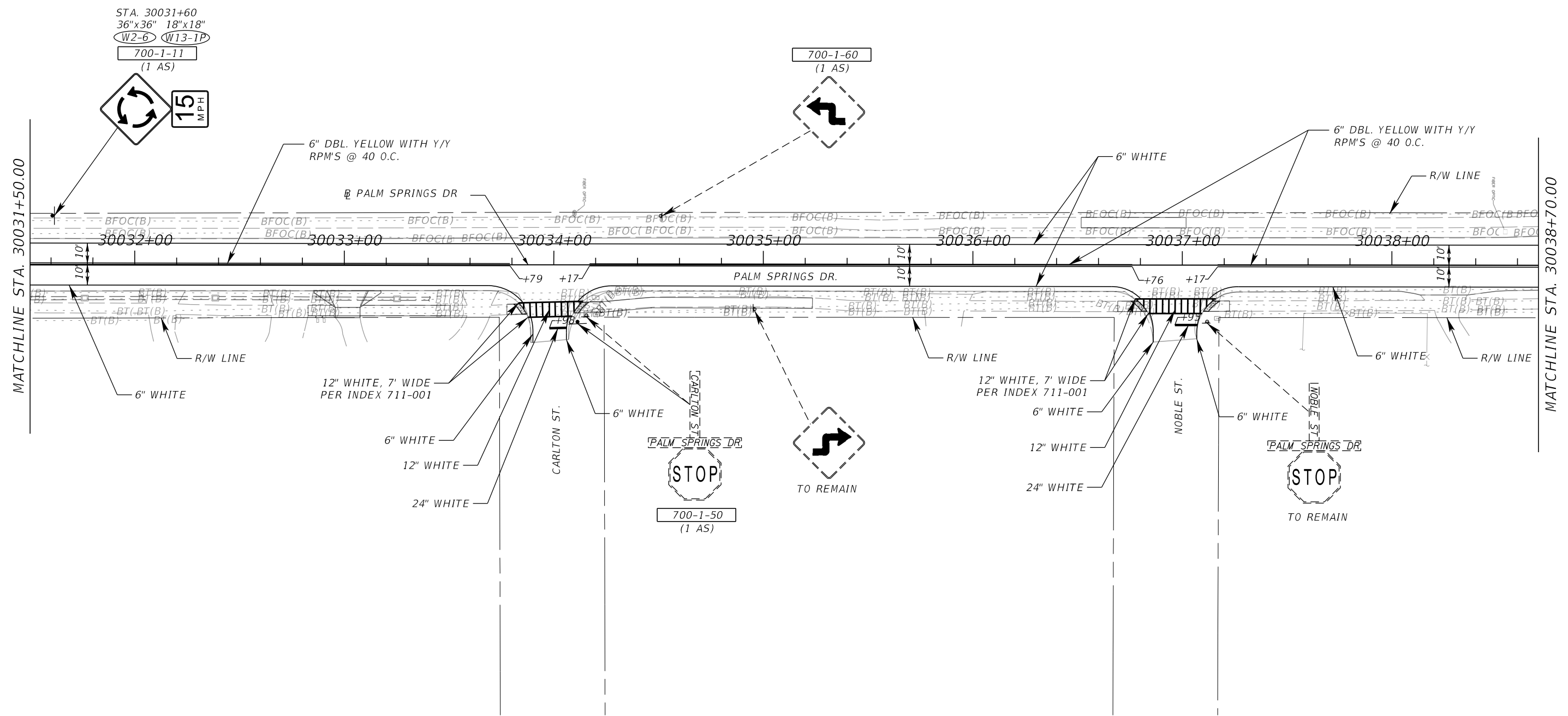
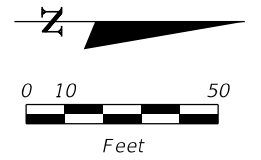


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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



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

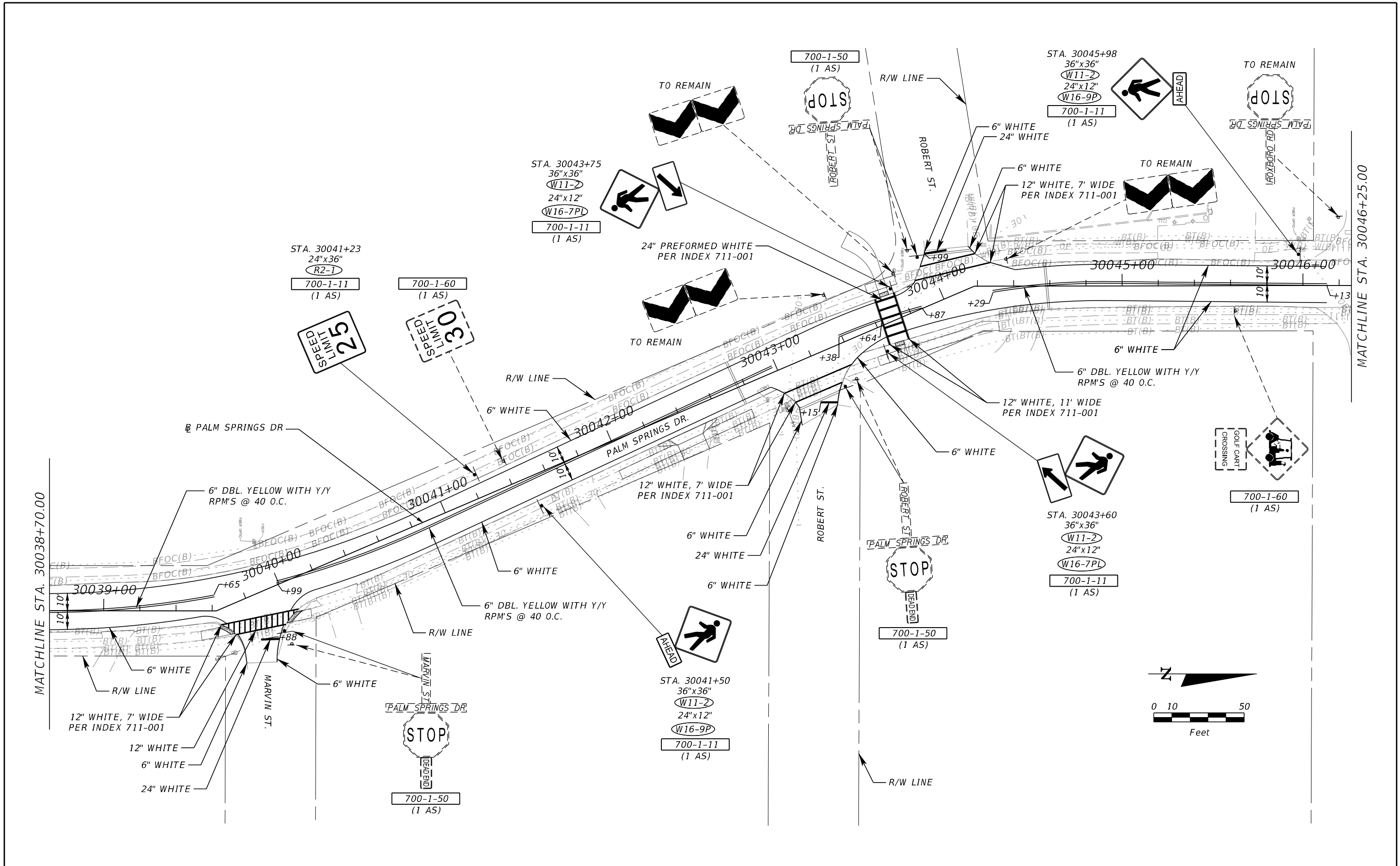


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

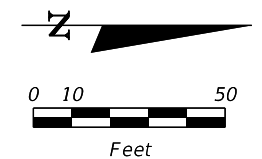


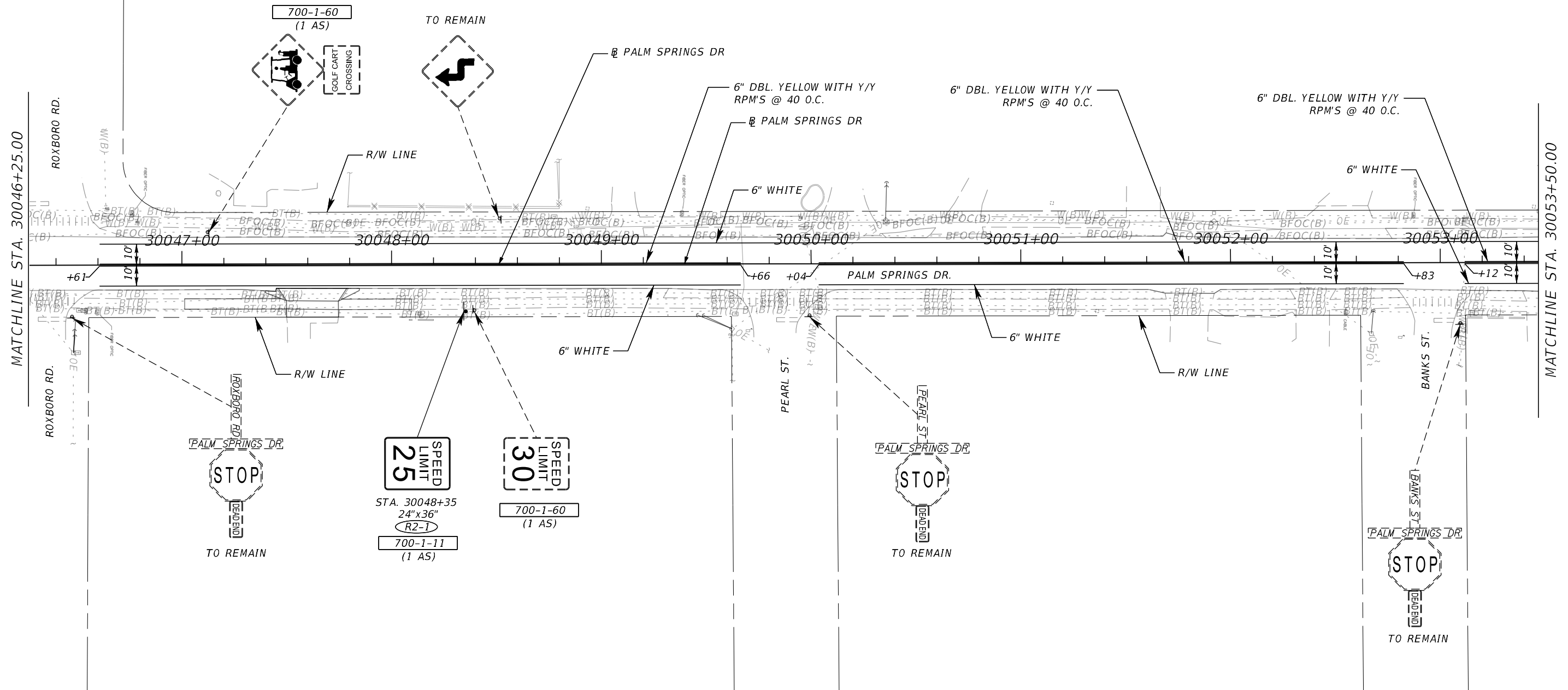
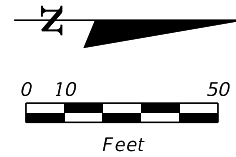
SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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





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

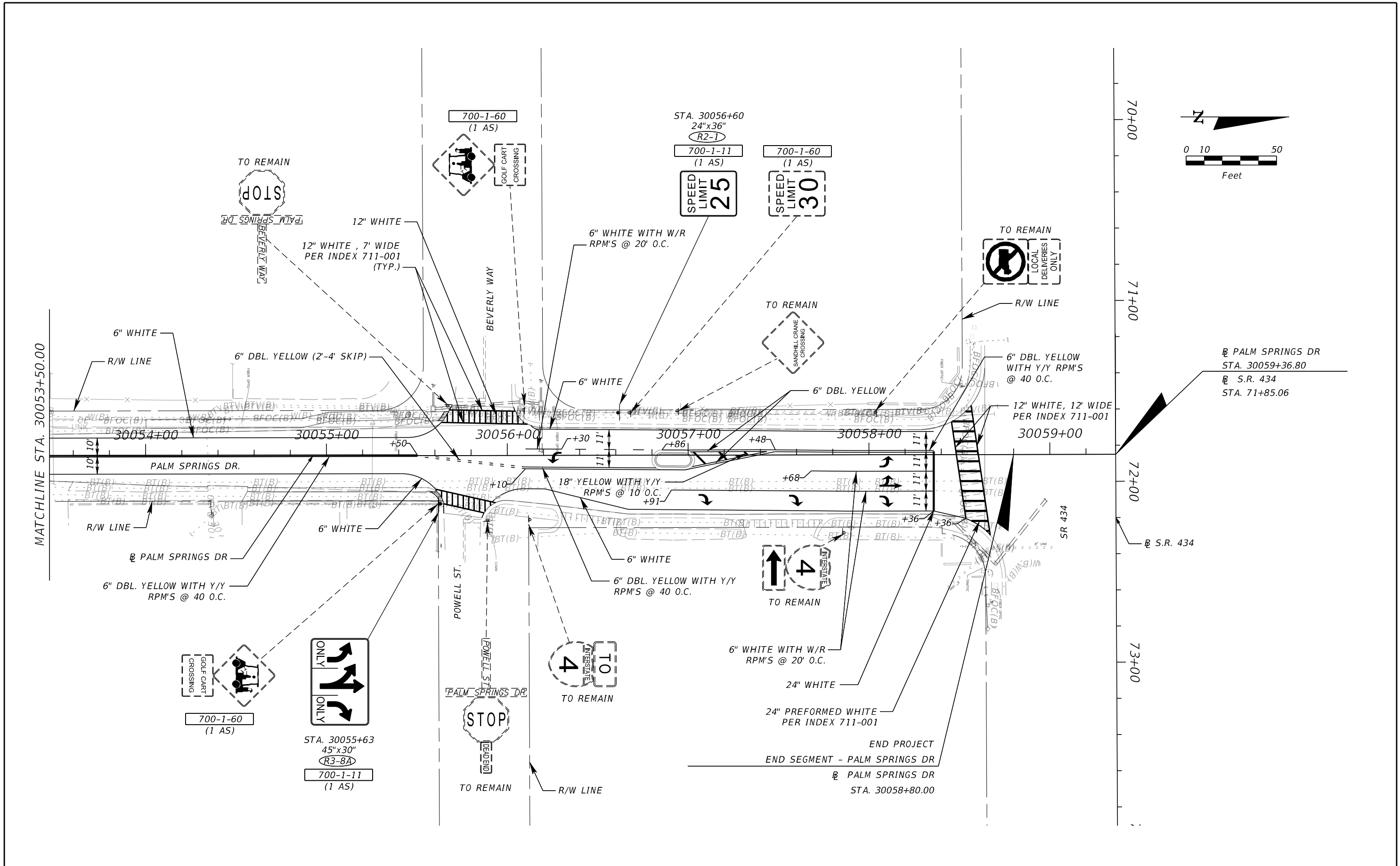


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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



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

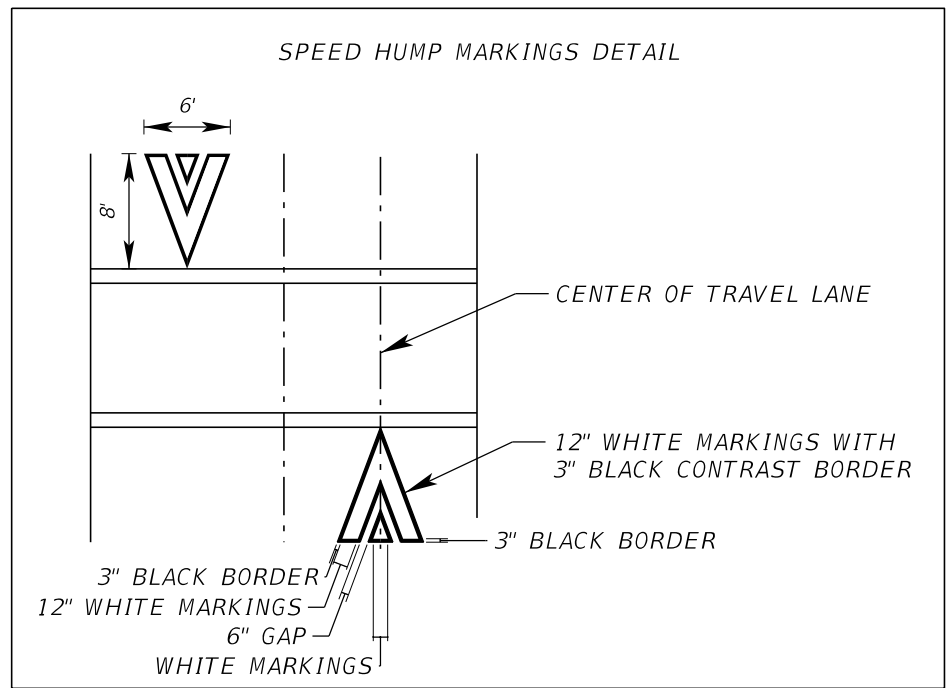
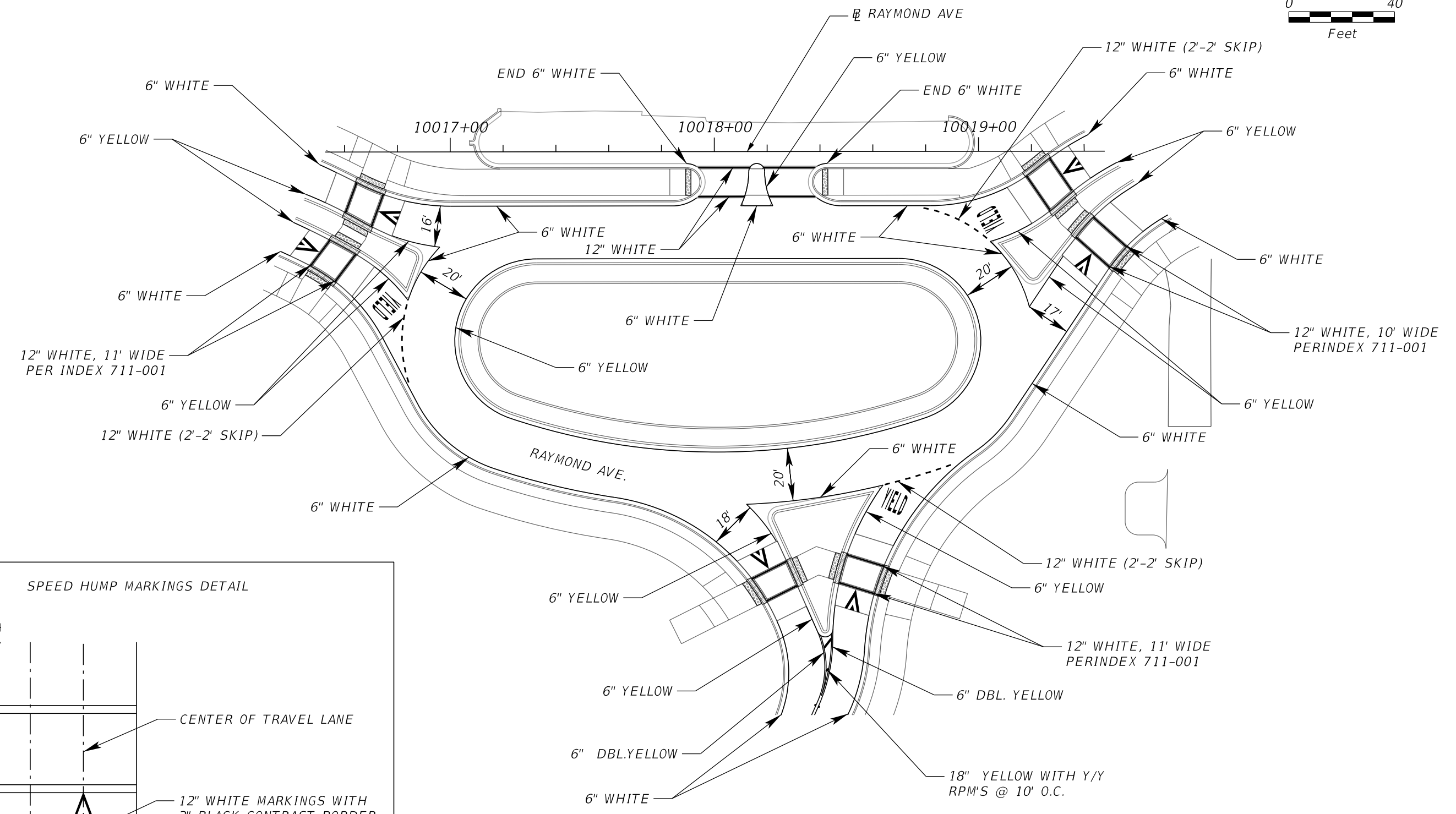
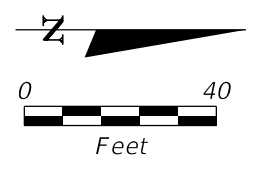


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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



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

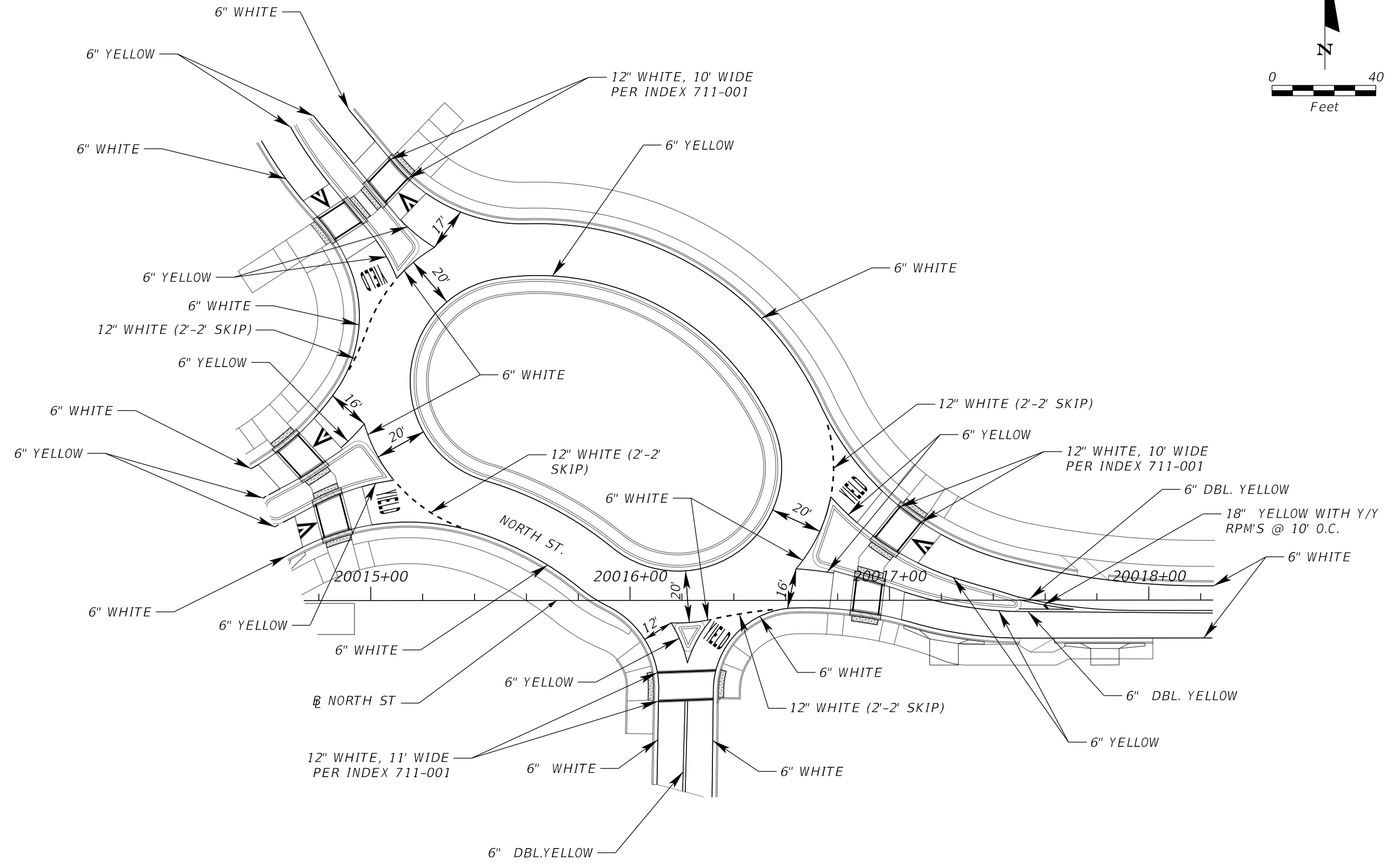
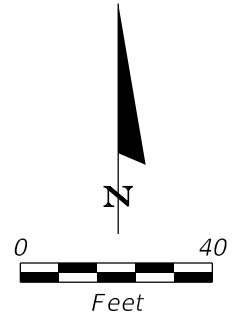


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

RAYMOND AVE.
 PAVEMENT MARKING DETAIL

SHEET NO.
 S-27



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

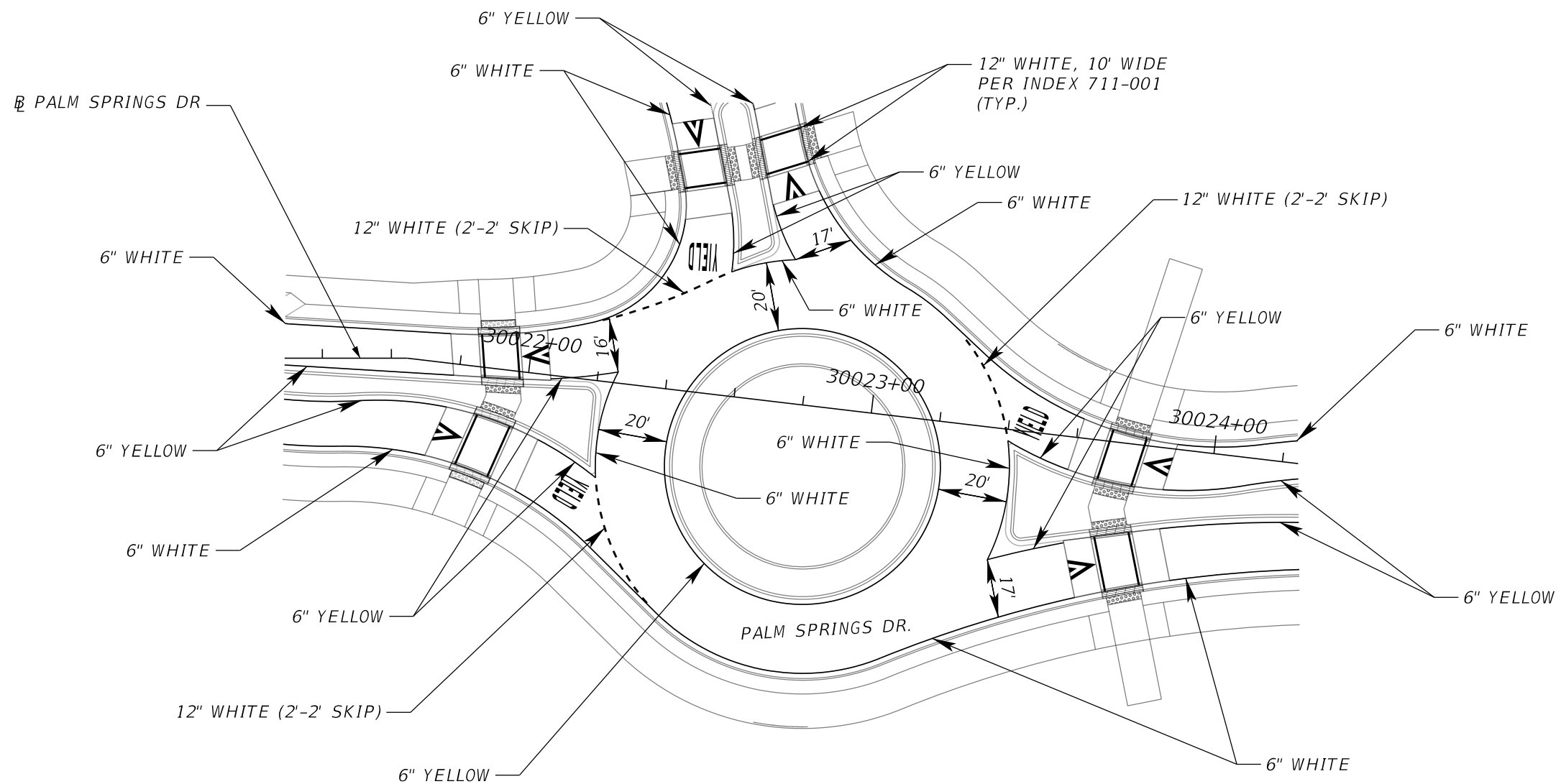
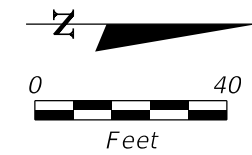


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROLLING HILLS AREA ROADWAYS PHASE 1

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

NORTH ST.
 PAVEMENT MARKING DETAIL

SHEET NO.
 S-28



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