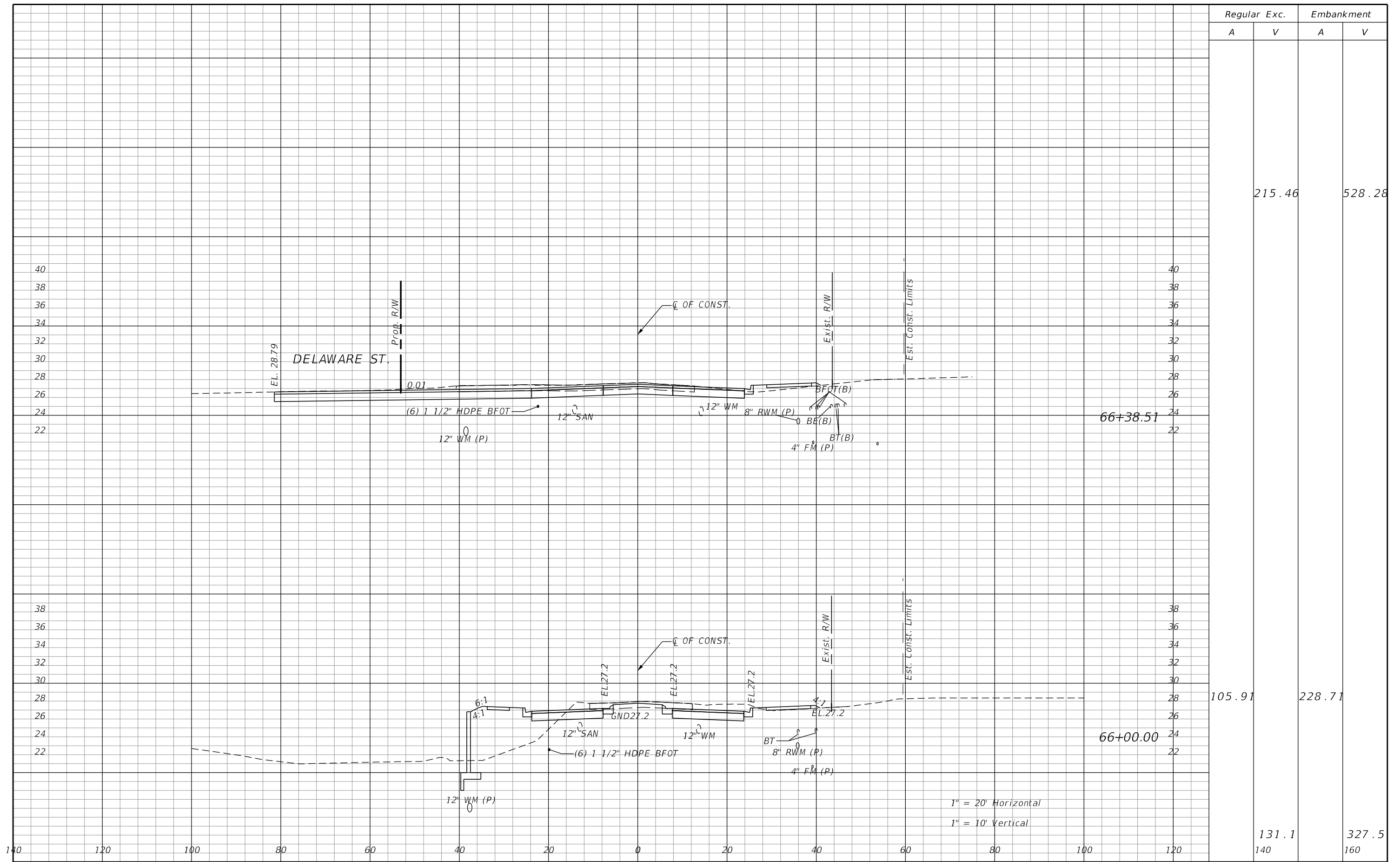


1" = 20' Horizontal  
 1" = 10' Vertical

Regular	Exc.	Embankment	
		A	V
17.85		62.21	
134.3		160.5	
54.65		24.48	

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th colspan="2"></th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td><b>PRELIMINARY NOT FOR CONSTRUCTION</b></td> <td></td> <td></td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION		<b>PRELIMINARY NOT FOR CONSTRUCTION</b>			<p>JASON R. FLICK, P.E.          P.E. LICENSE NUMBER 74741          JMT - JOHNSON, MIRMIRAN &amp; THOMPSON          615 CRESCENT EXECUTIVE COURT, SUITE 106          LAKE MARY, FL 32746          CERTIFICATE OF AUTHORIZATION NO.: 5917</p>	<table border="1"> <thead> <tr> <th colspan="3">SEMINOLE COUNTY PUBLIC WORKS</th> </tr> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>SEMINOLE COUNTY CIP</th> </tr> </thead> <tbody> <tr> <td>CR 431</td> <td>SEMINOLE</td> <td>01785303</td> </tr> </tbody> </table>	SEMINOLE COUNTY PUBLIC WORKS			ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	<p style="text-align: center;"><b>ROADWAY CROSS-SECTIONS</b></p>	<table border="1"> <thead> <tr> <th>SHEET NO.</th> </tr> </thead> <tbody> <tr> <td>203</td> </tr> </tbody> </table>	SHEET NO.	203
REVISIONS																														
DATE	DESCRIPTION	DATE	DESCRIPTION																											
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SEMINOLE COUNTY PUBLIC WORKS																														
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																												
CR 431	SEMINOLE	01785303																												
SHEET NO.																														
203																														



Regular		Exc.		Embankment	
A	V	A	V	A	V
			215.46		528.28
		105.91		228.71	
			131.1		327.5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

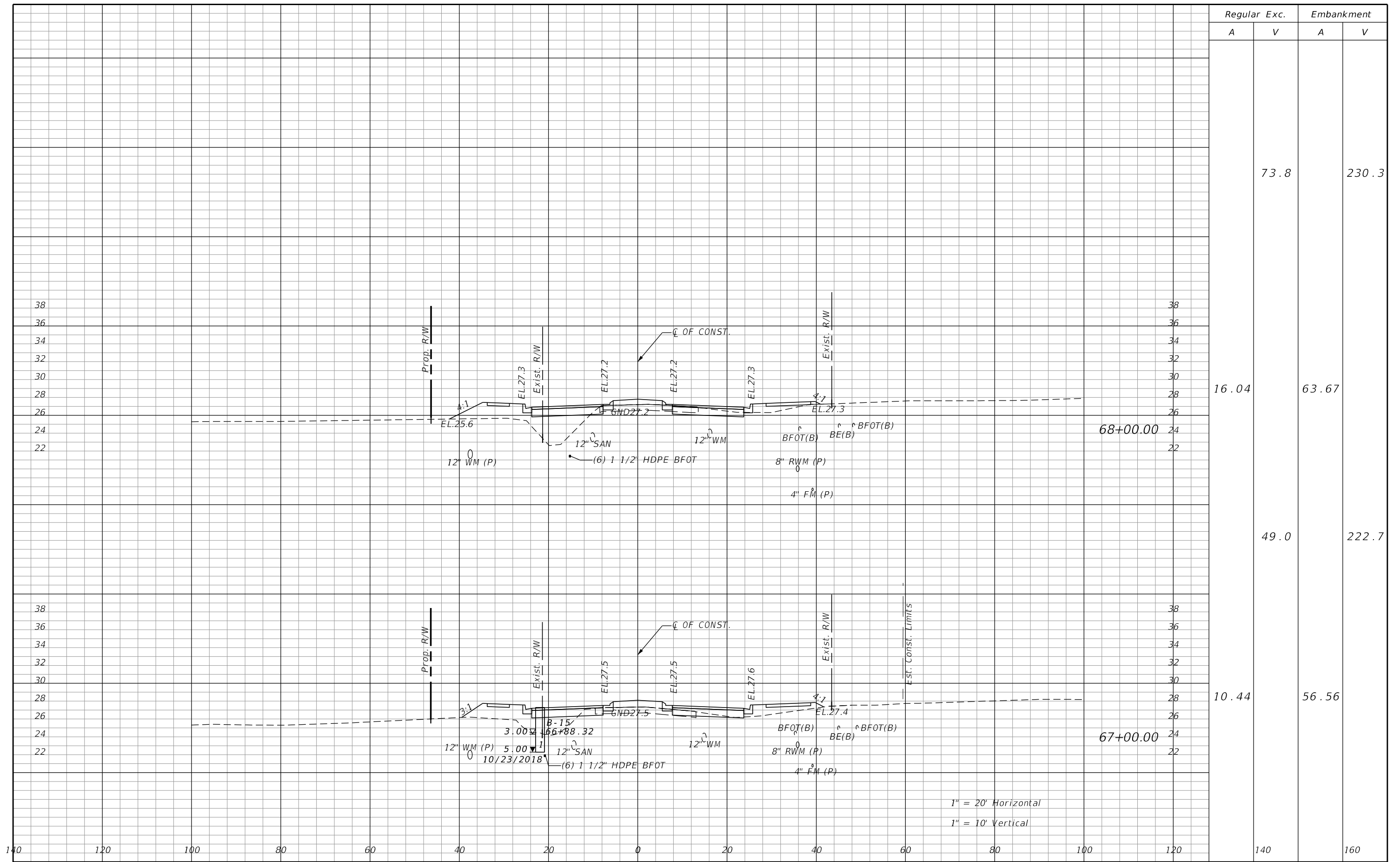
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.
204





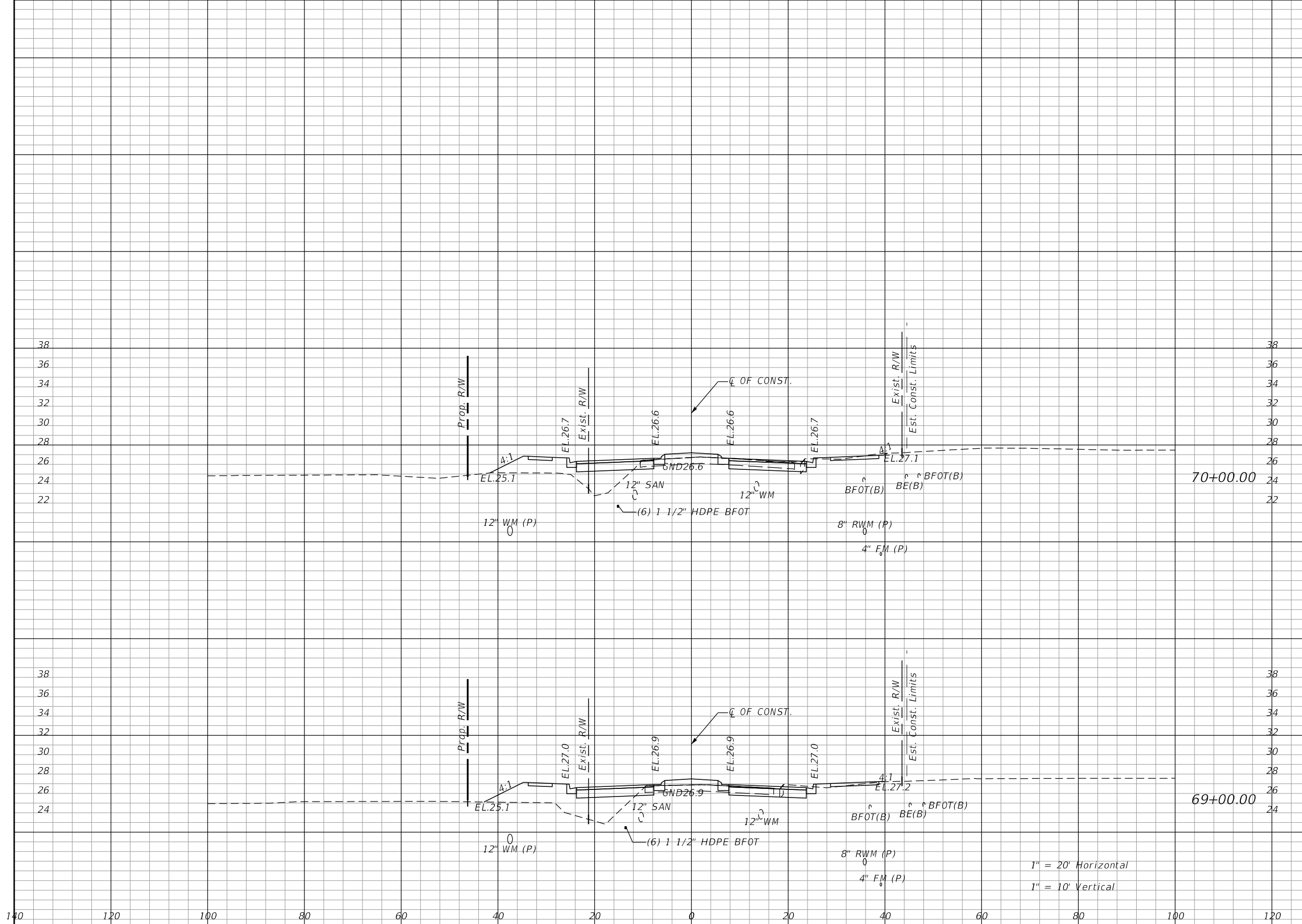
Regular		Exc.		Embankment	
A	V	A	V	A	V
			73.8		230.3
16.04		63.67			
	49.0			222.7	
10.44		56.56			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

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P.E. LICENSE NUMBER 74741  
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615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		205



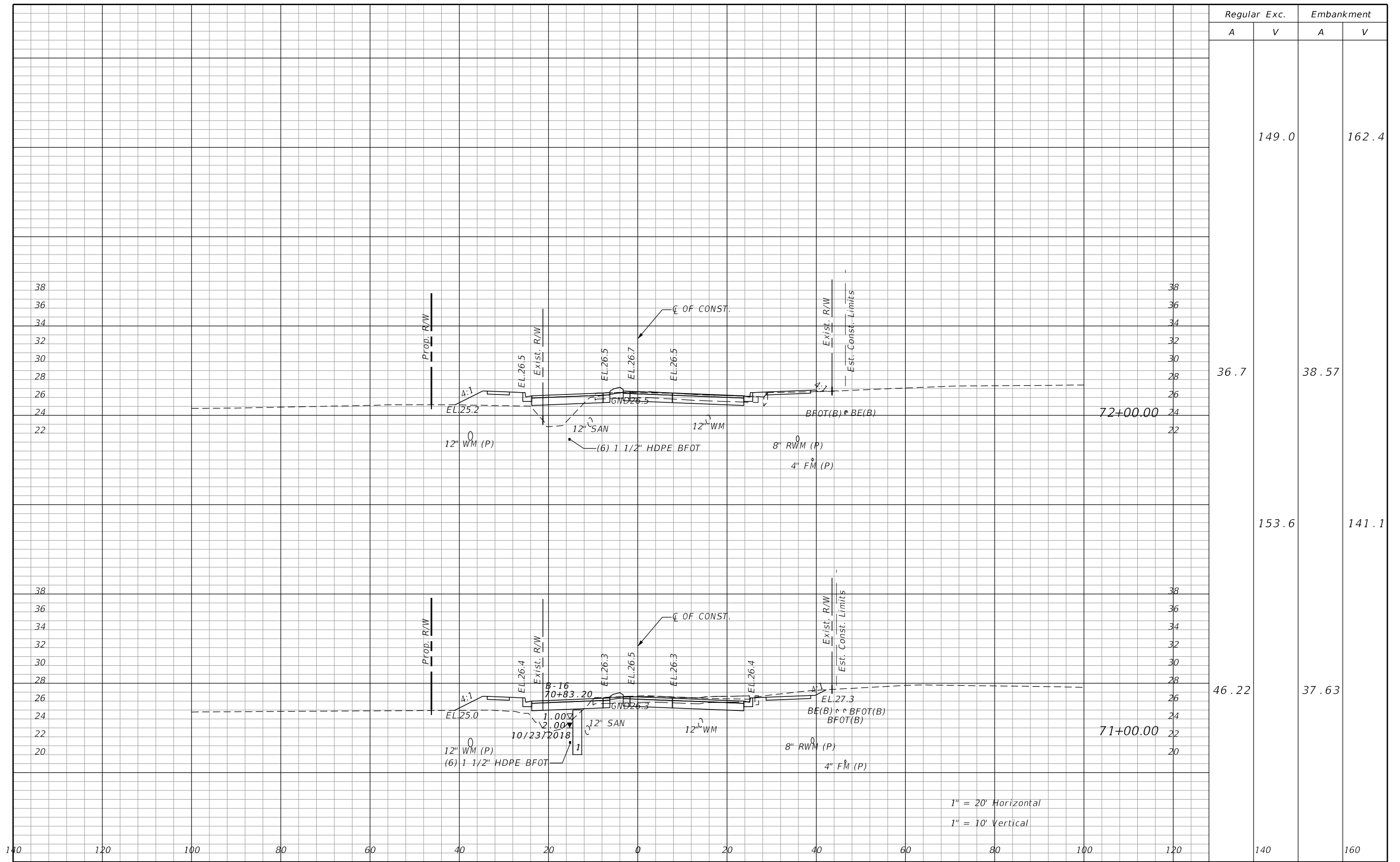
Regular		Exc.		Embankment	
A	V	A	V	A	V
			135.4		151.6
26.87		44.23			
	93.8		194.3		
23.8		60.7			

REVISIONS			
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		206



Regular		Exc.		Embankment	
A	V	A	V	A	V
			149.0		162.4
36.7			38.57		
		153.6		141.1	
46.22			37.63		

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

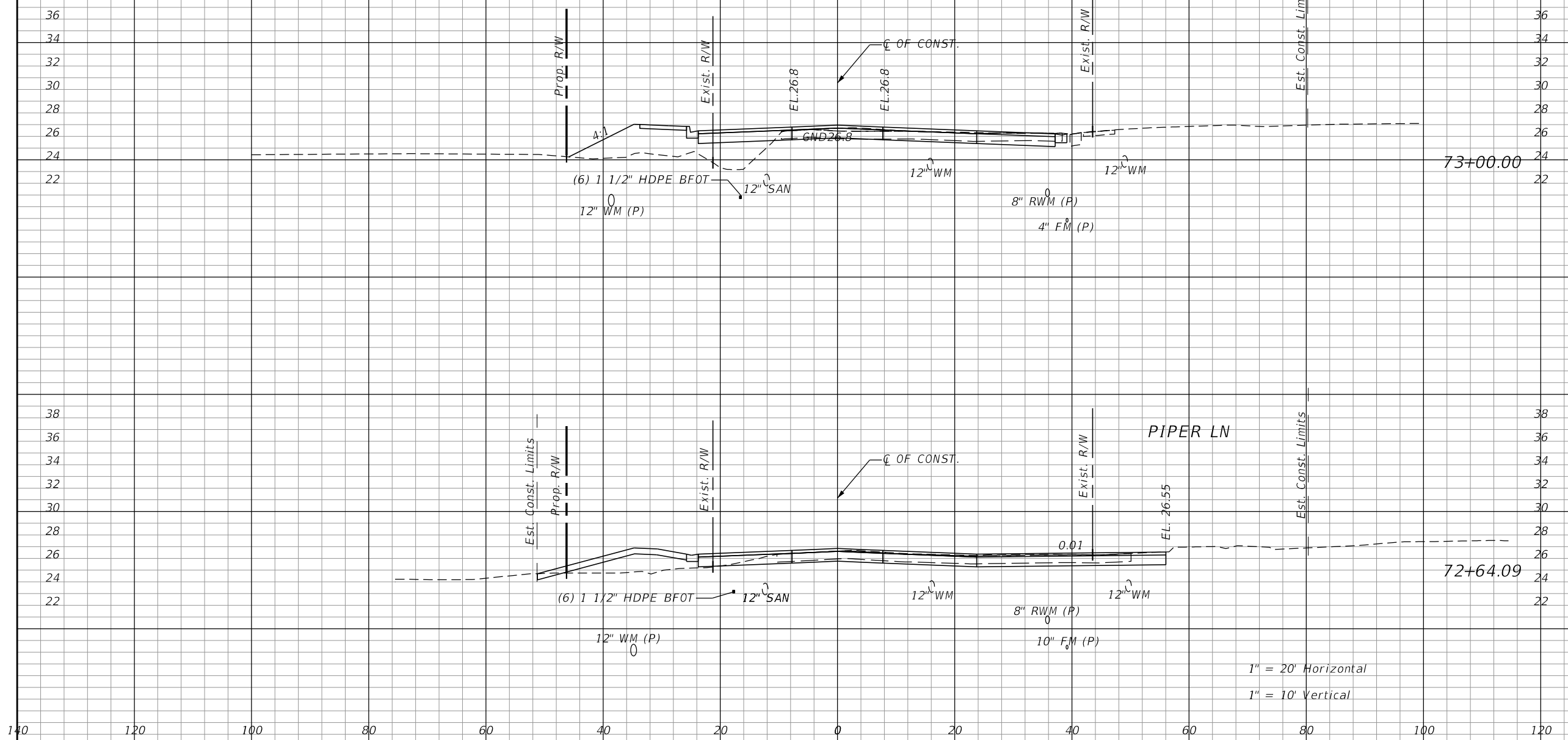
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DATE	DESCRIPTION	DATE	DESCRIPTION
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		207

Regular		Exc.		Embankment	
A	V	A	V	A	V



93.01

84.61

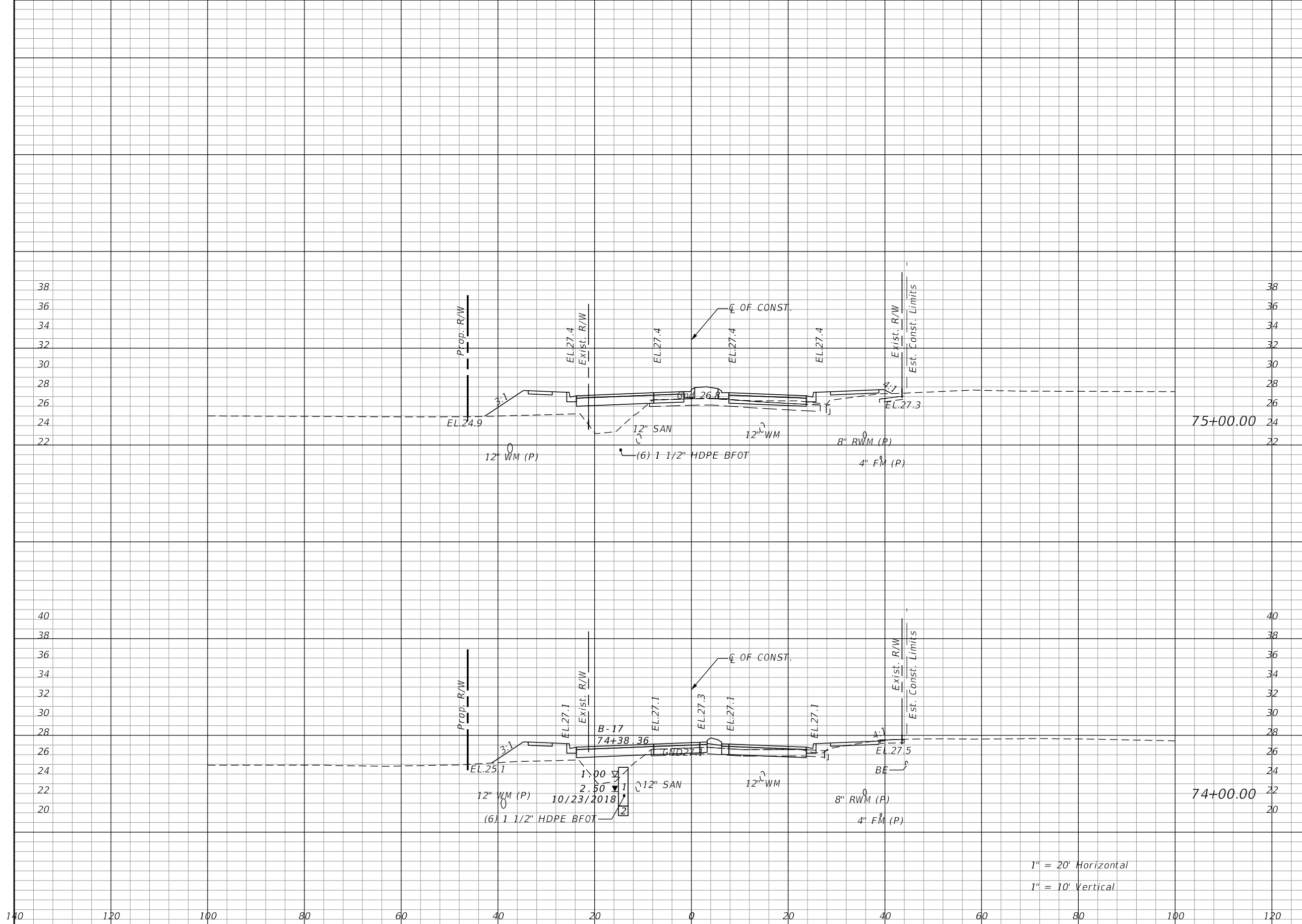
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
208



Regular		Exc.		Embankment	
A	V	A	V	A	V
			51.0		207.9
8.98			73.93		
			54.2		230.4
20.26			50.48		

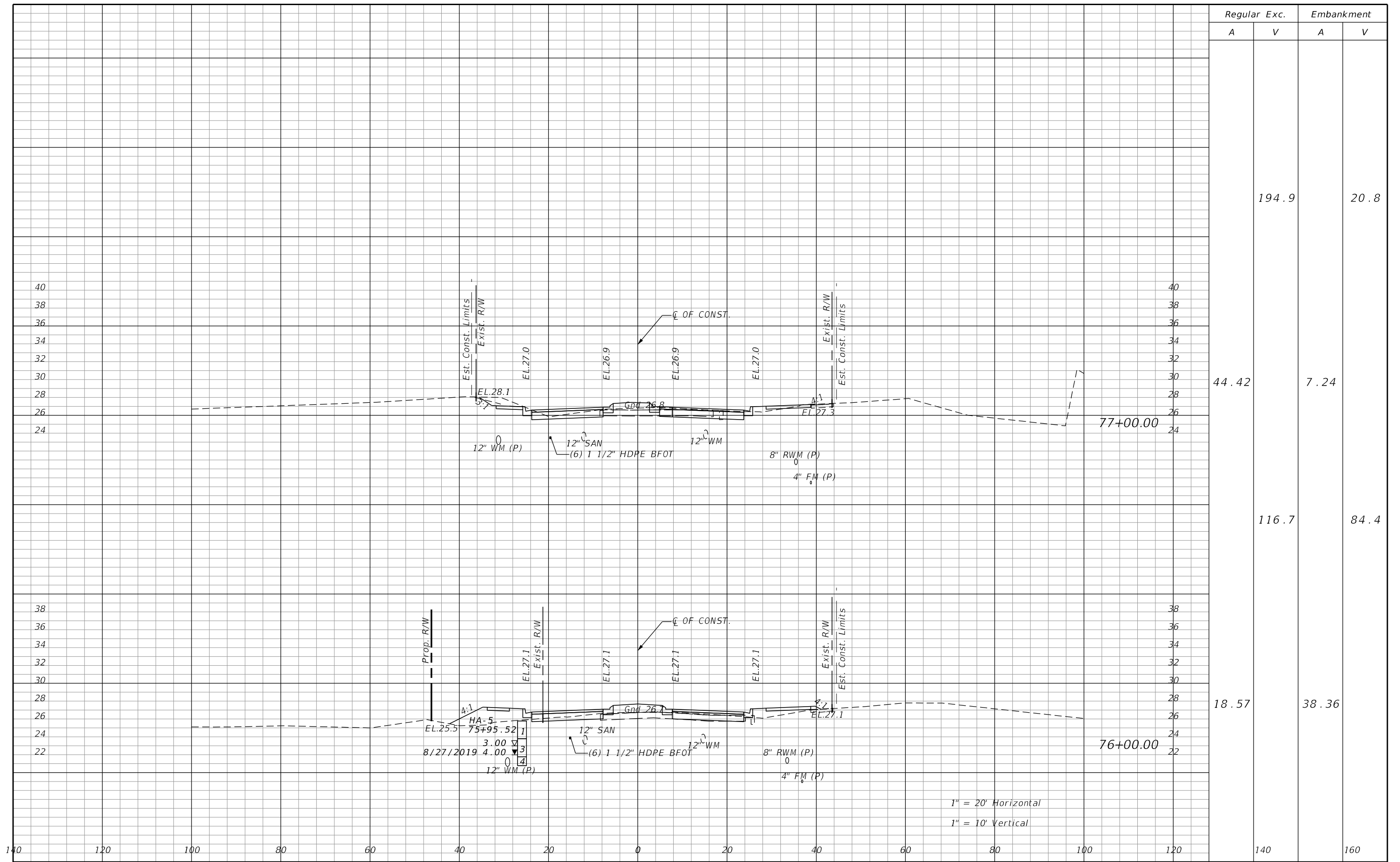
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1" = 10' Vertical

REVISIONS			
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		209



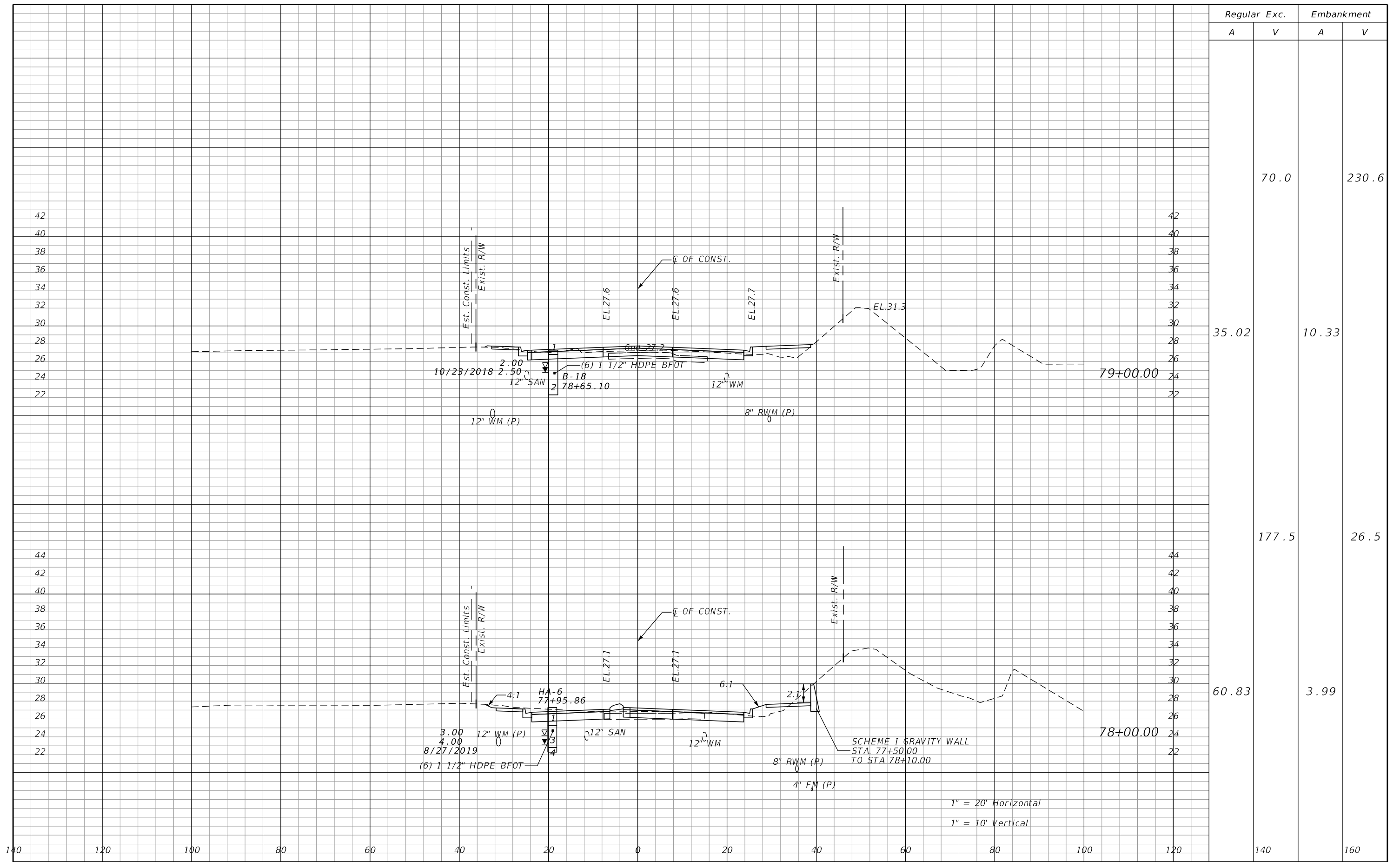
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		210



Regular		Exc.		Embankment	
A	V	A	V	A	V
	70.0		230.6		
35.02		10.33			
	177.5		26.5		
60.83		3.99			

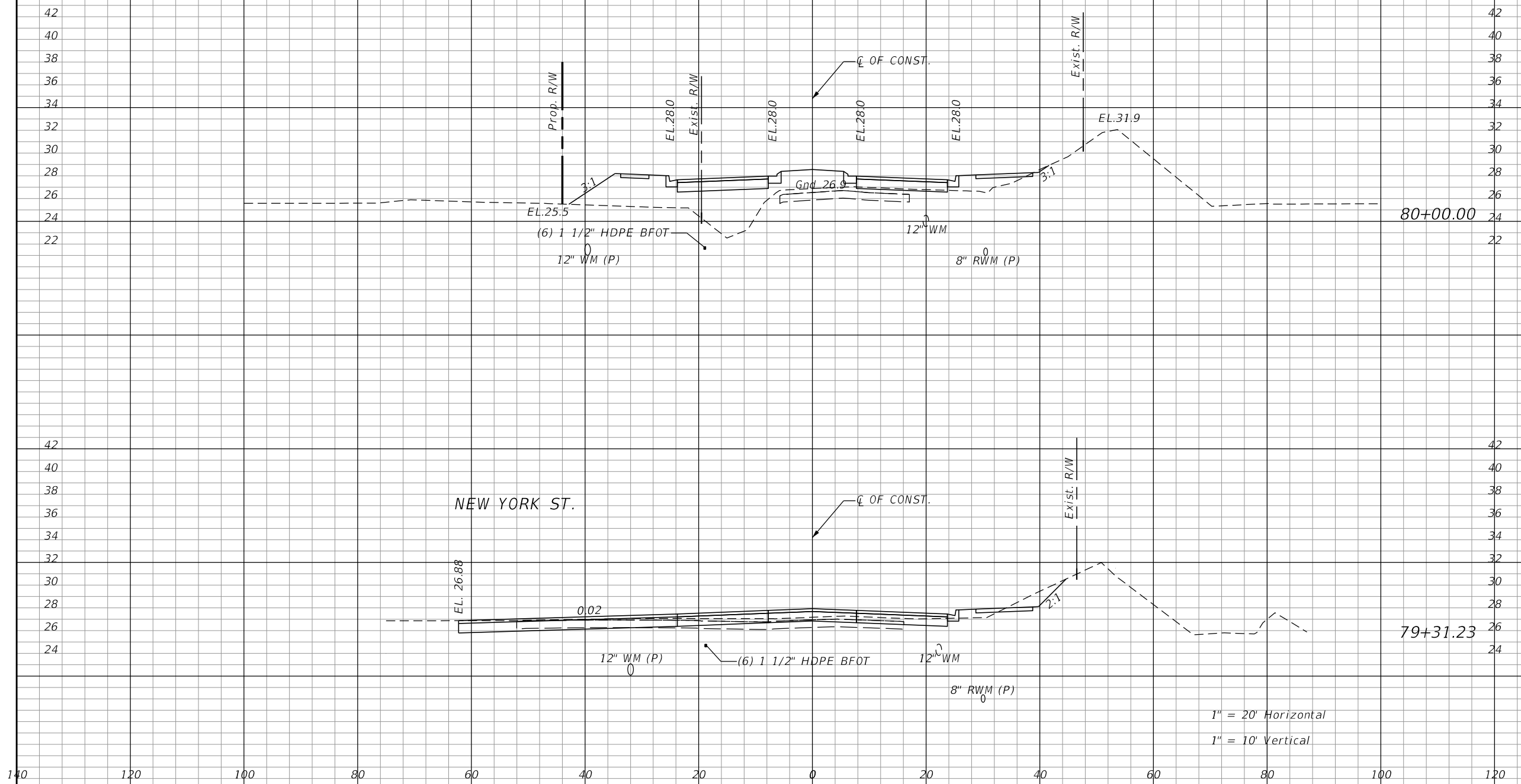
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SEMINOLE COUNTY PUBLIC WORKS		
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ROADWAY CROSS-SECTIONS	
SHEET NO.	
211	

Regular		Exc.		Embankment	
A	V	A	V	A	V



2.76      114.21

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

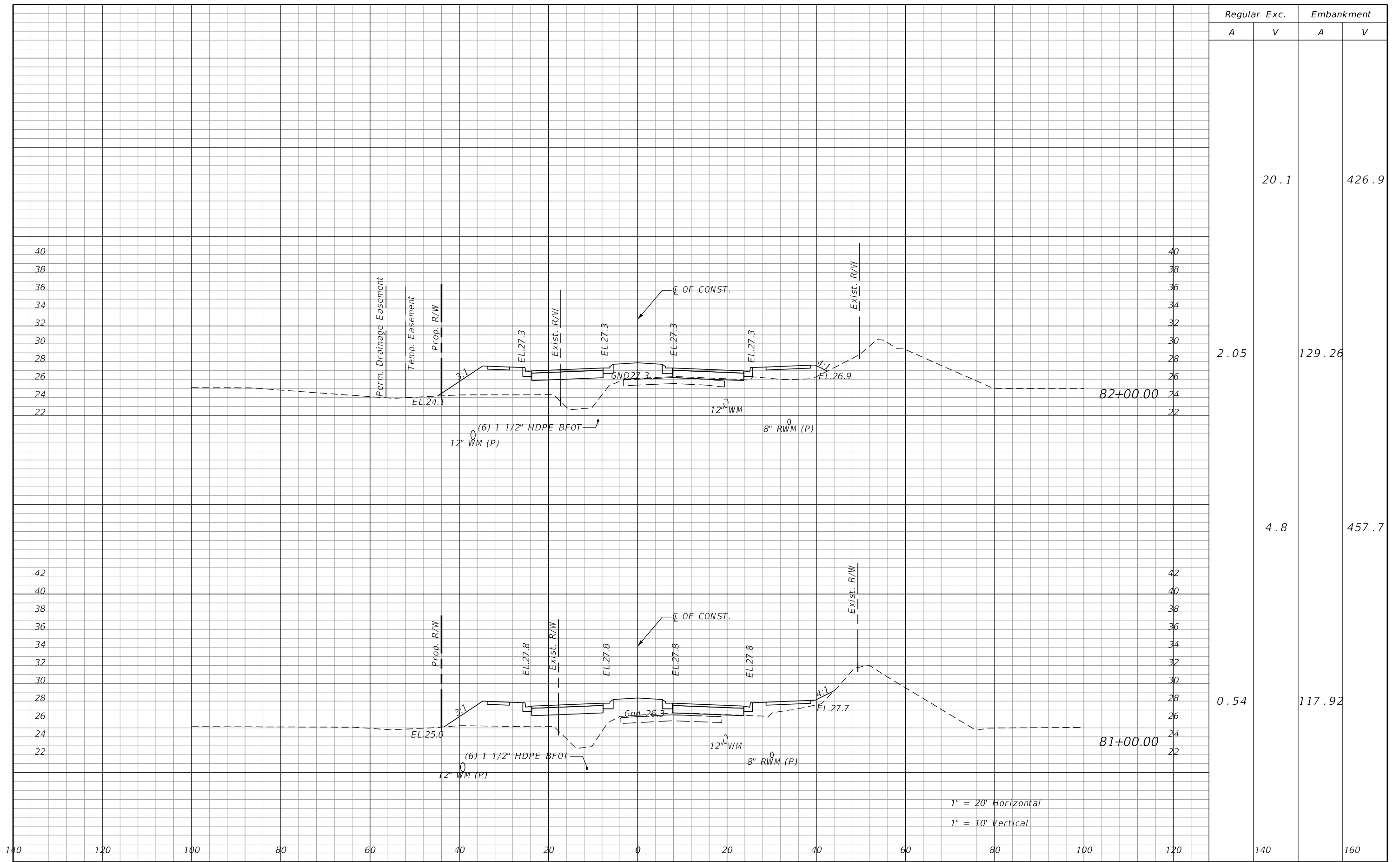
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
212





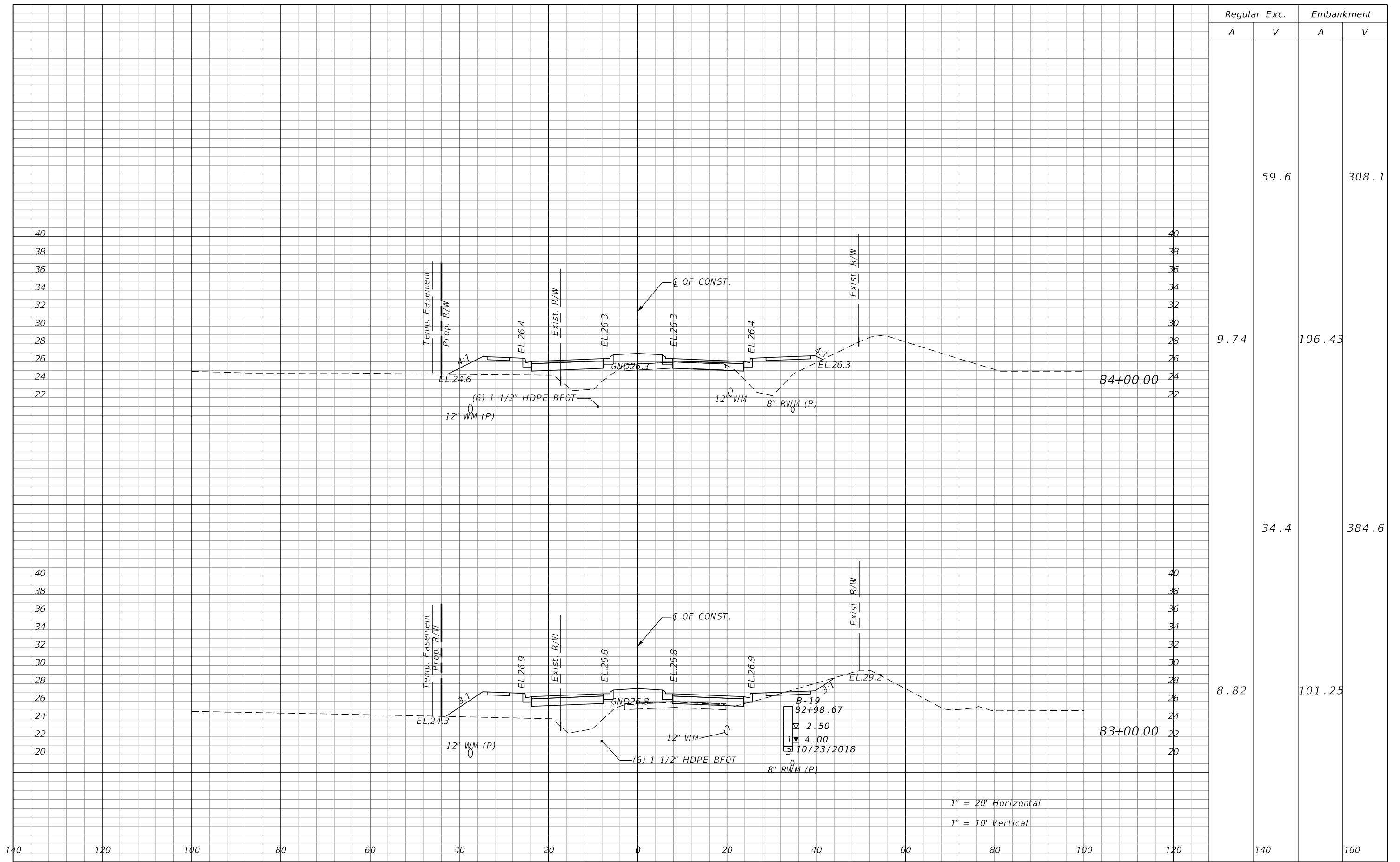
Regular		Exc.		Embankment	
A	V	A	V	A	V
	20.1			426.9	
2.05			129.26		
	4.8			457.7	
0.54			117.92		

REVISIONS			
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		213



Regular		Exc.		Embankment	
A	V	A	V	A	V
			59.6		308.1
9.74		106.43			
			34.4		384.6
8.82		101.25			

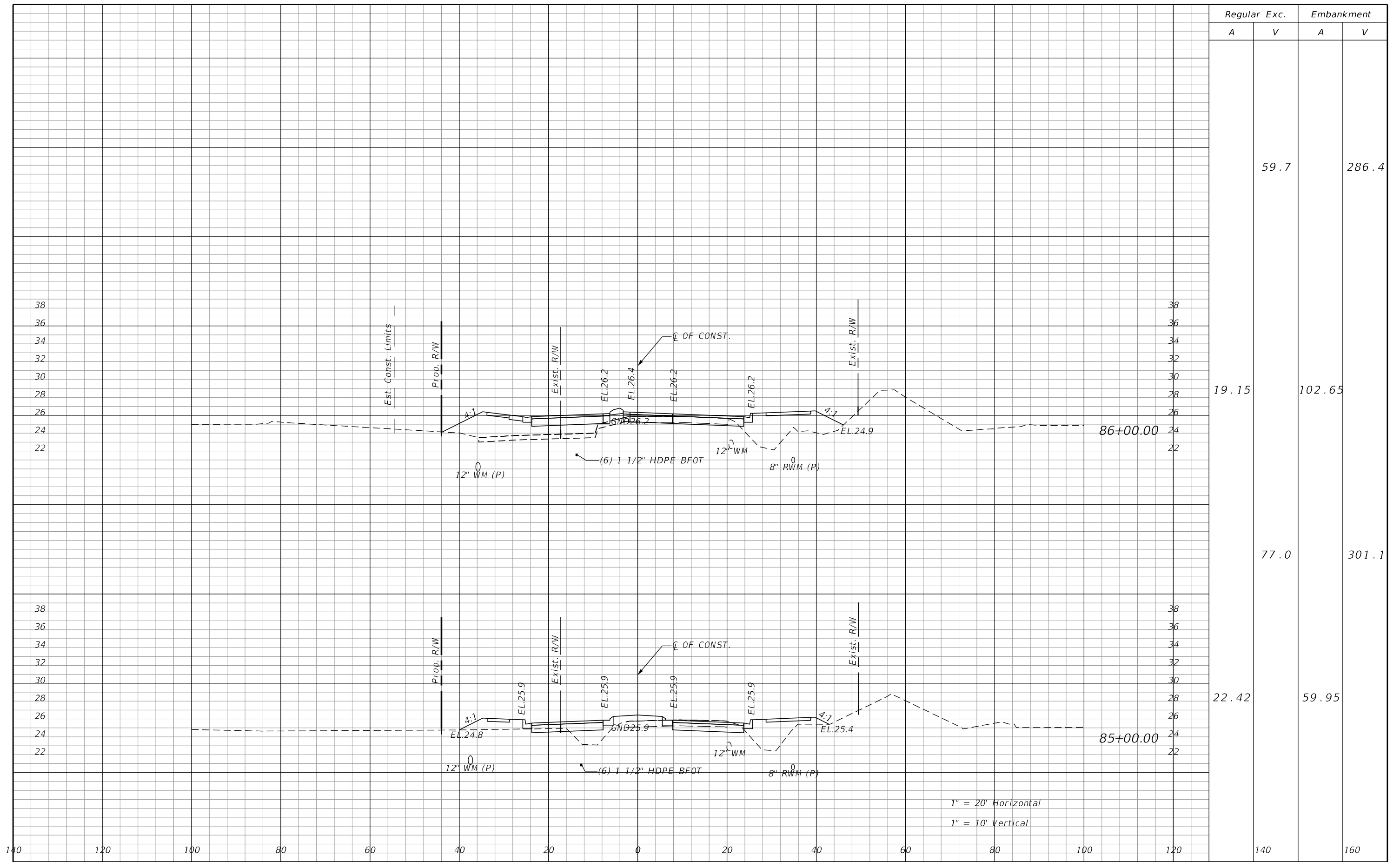
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1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		214



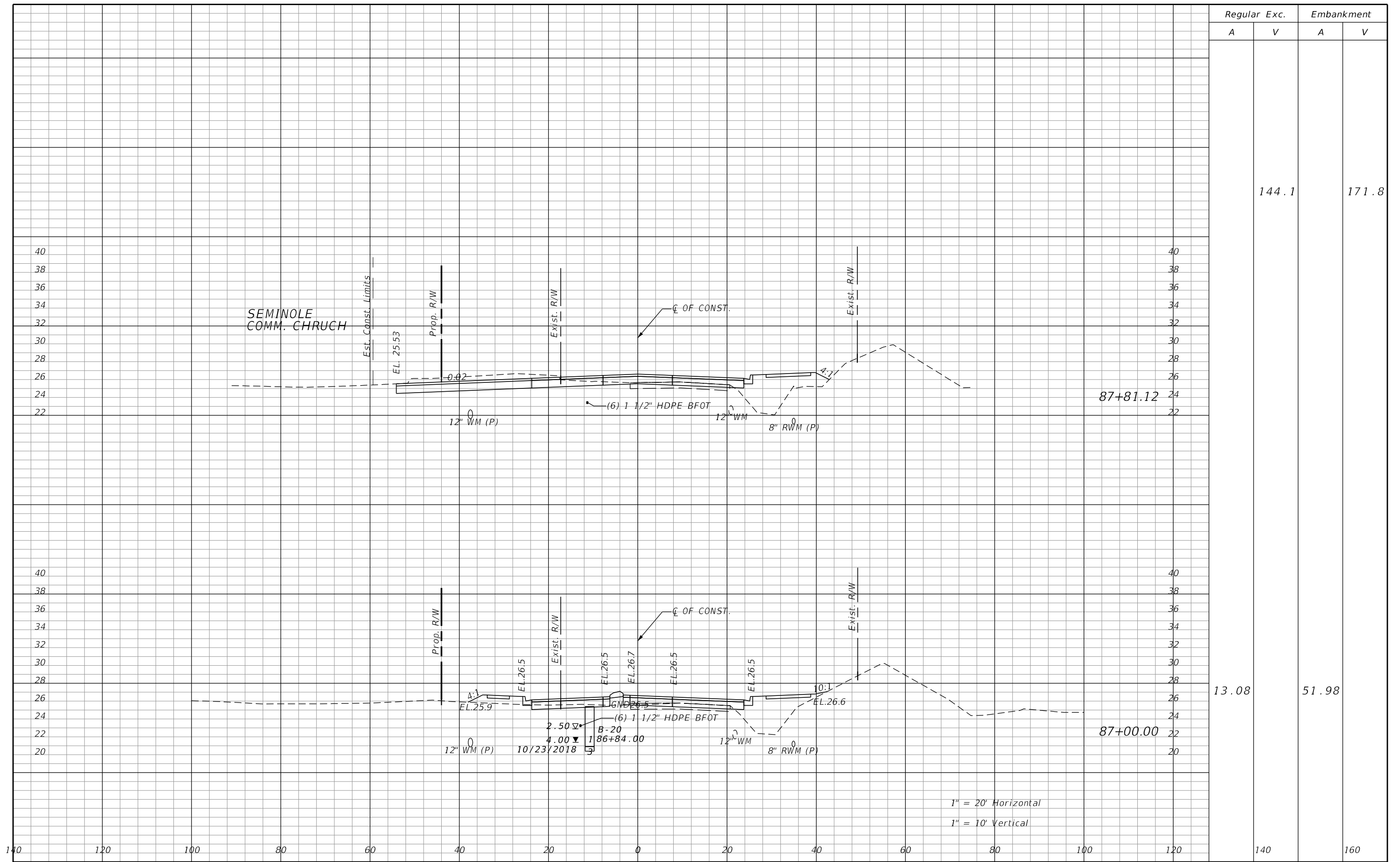
Regular		Exc.		Embankment	
A	V	A	V	A	V
			59.7		286.4
19.15				102.65	
			77.0		301.1
22.42				59.95	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
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ROADWAY CROSS-SECTIONS		SHEET NO.
		215



Regular		Exc.		Embankment	
A	V	A	V	A	V
			144.1		171.8
		13.08		51.98	

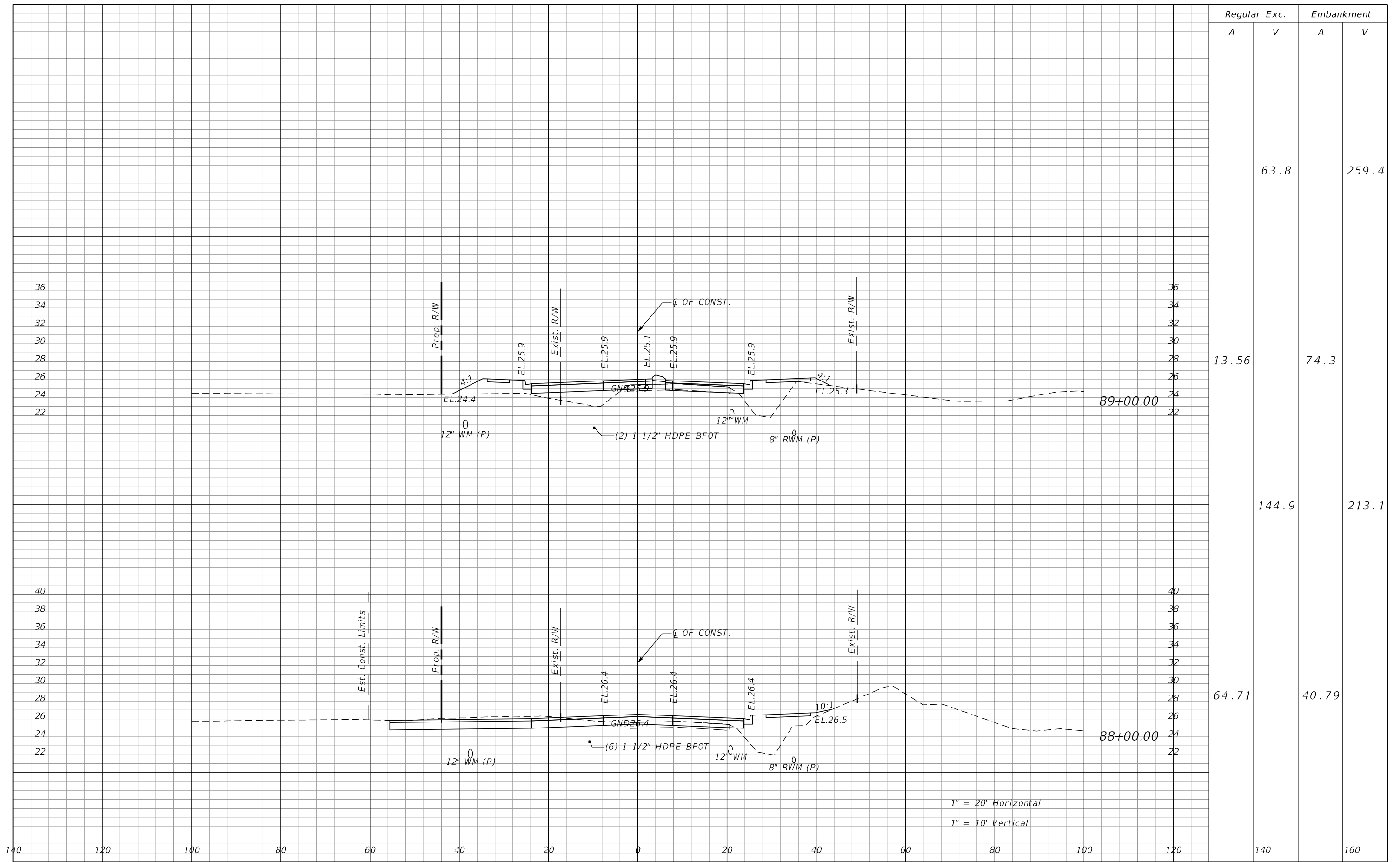
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1" = 10' Vertical

REVISIONS			
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JASON R. FLICK, P.E.  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		216



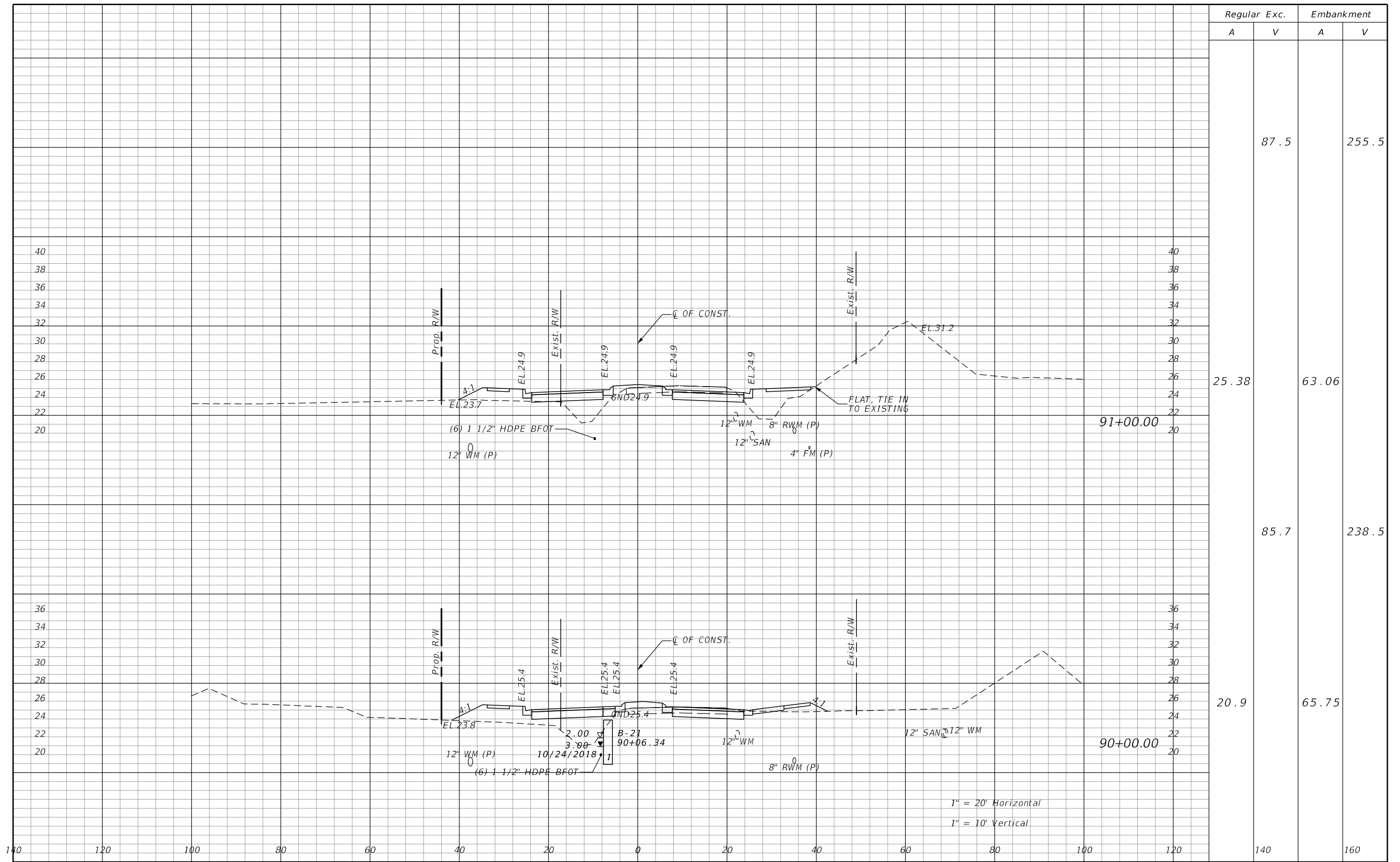
Regular		Exc.		Embankment	
A	V	A	V	A	V
			63.8		259.4
13.56				74.3	
		144.9			213.1
64.71				40.79	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		217



Regular		Exc.		Embankment	
A	V	A	V	A	V
			87.5		255.5
25.38		63.06			
		85.7			238.5
20.9		65.75			

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

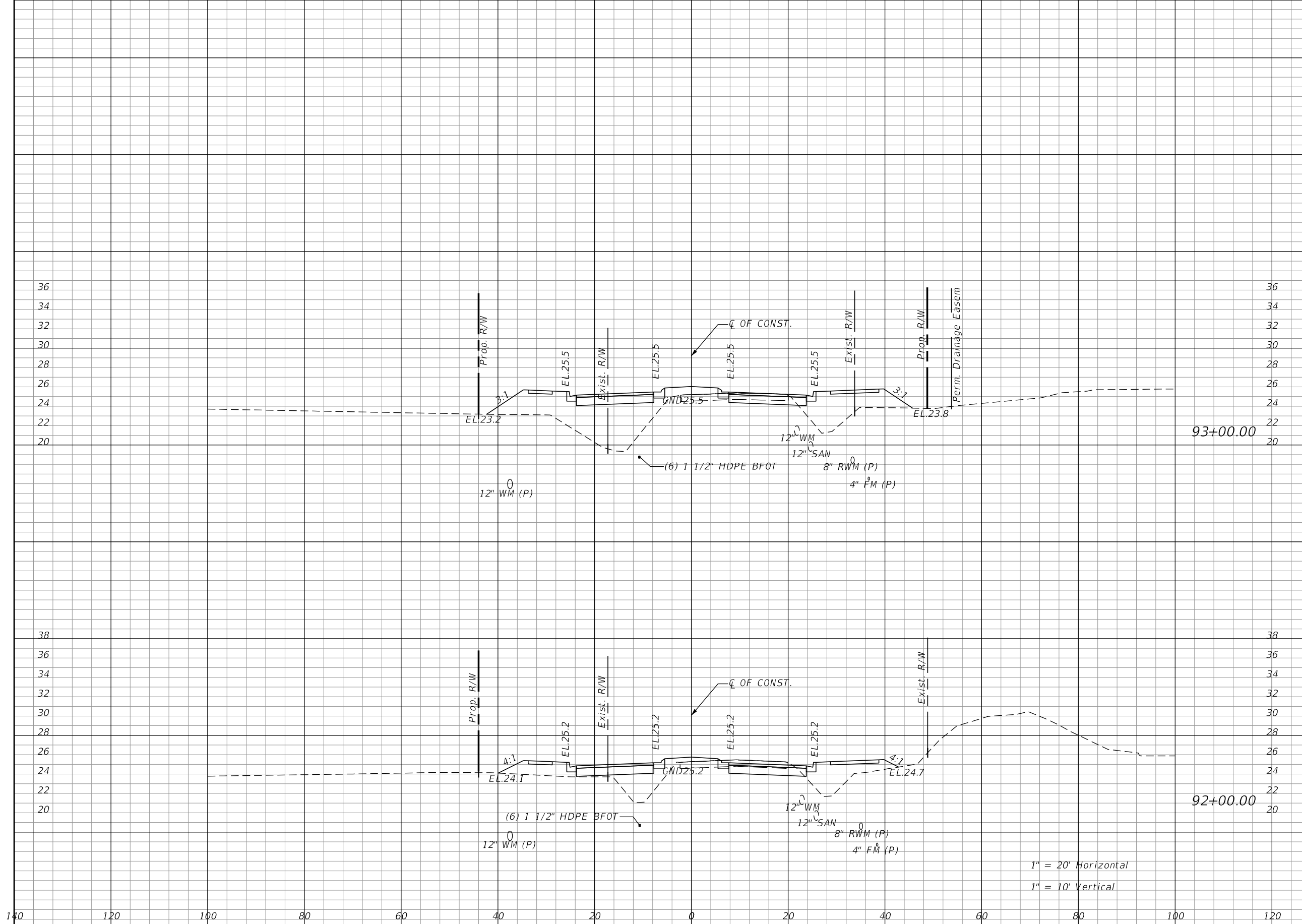
REVISIONS			
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.
218



Regular		Exc.		Embankment	
A	V	A	V	A	V
			53.0		552.7
15.1				157.76	
		68.4			430.9
21.86				74.91	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

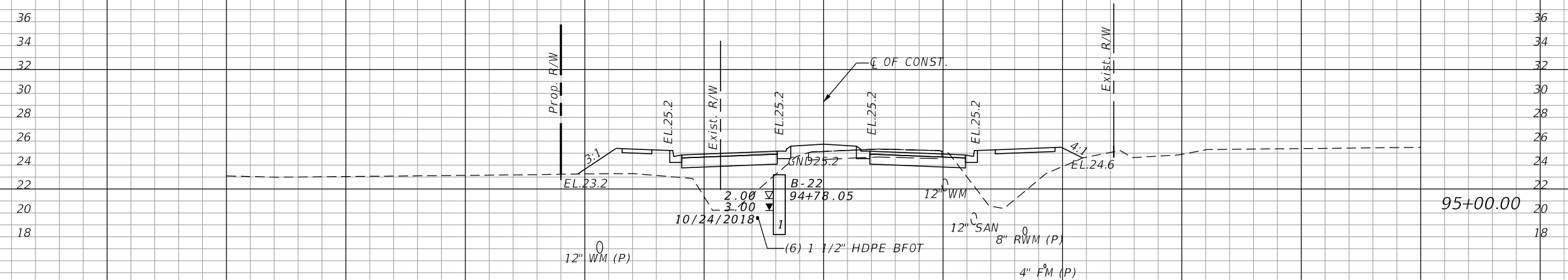
JASON R. FLICK, P.E.  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		219

Regular		Exc.		Embankment	
A	V	A	V	A	V

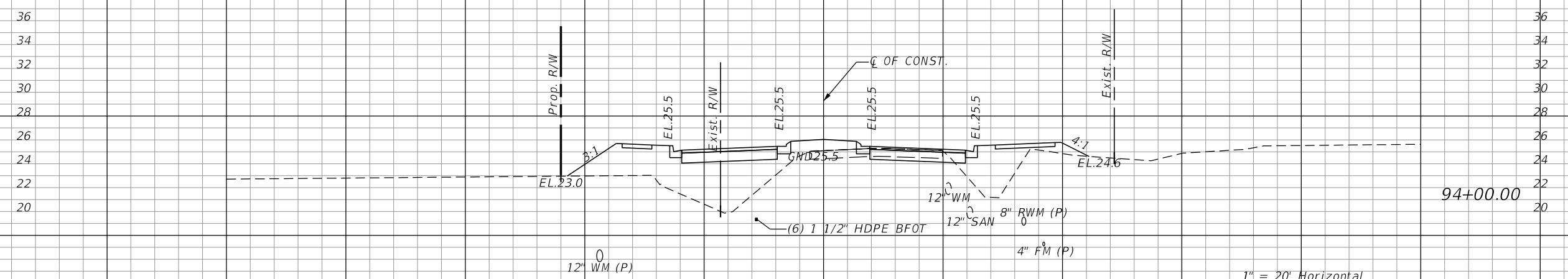
140.9      334.7



20.08      126.48

95+00.00

62.3      494.8



13.54      140.69

94+00.00

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

140      120      100      80      60      40      20      0      20      40      60      80      100      120

140      160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

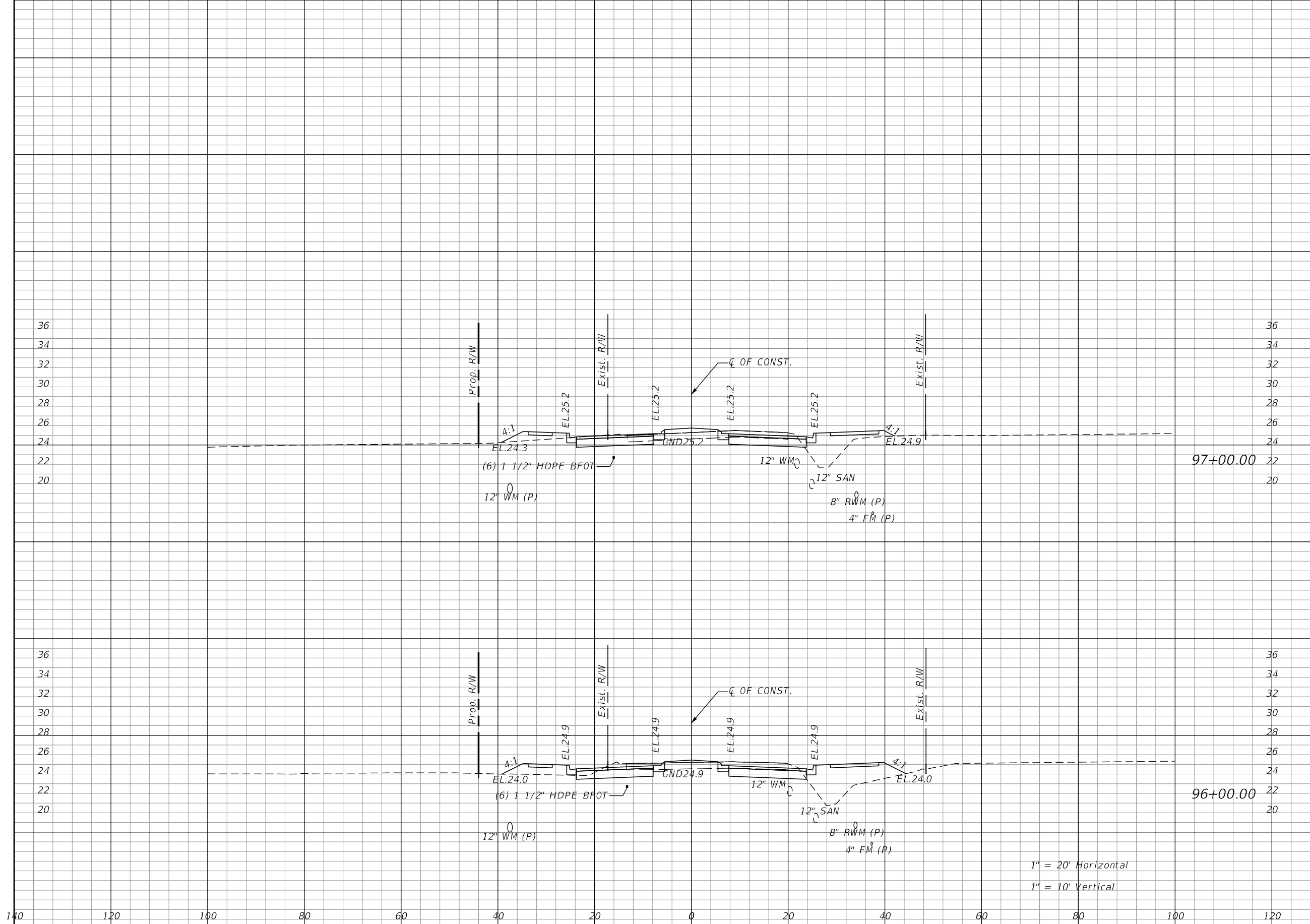
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SEMINOLE COUNTY PUBLIC WORKS		
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CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
220





Regular		Exc.		Embankment	
A	V	A	V	A	V
42.14				36.31	
	181.8				167.7
56.03				54.24	

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

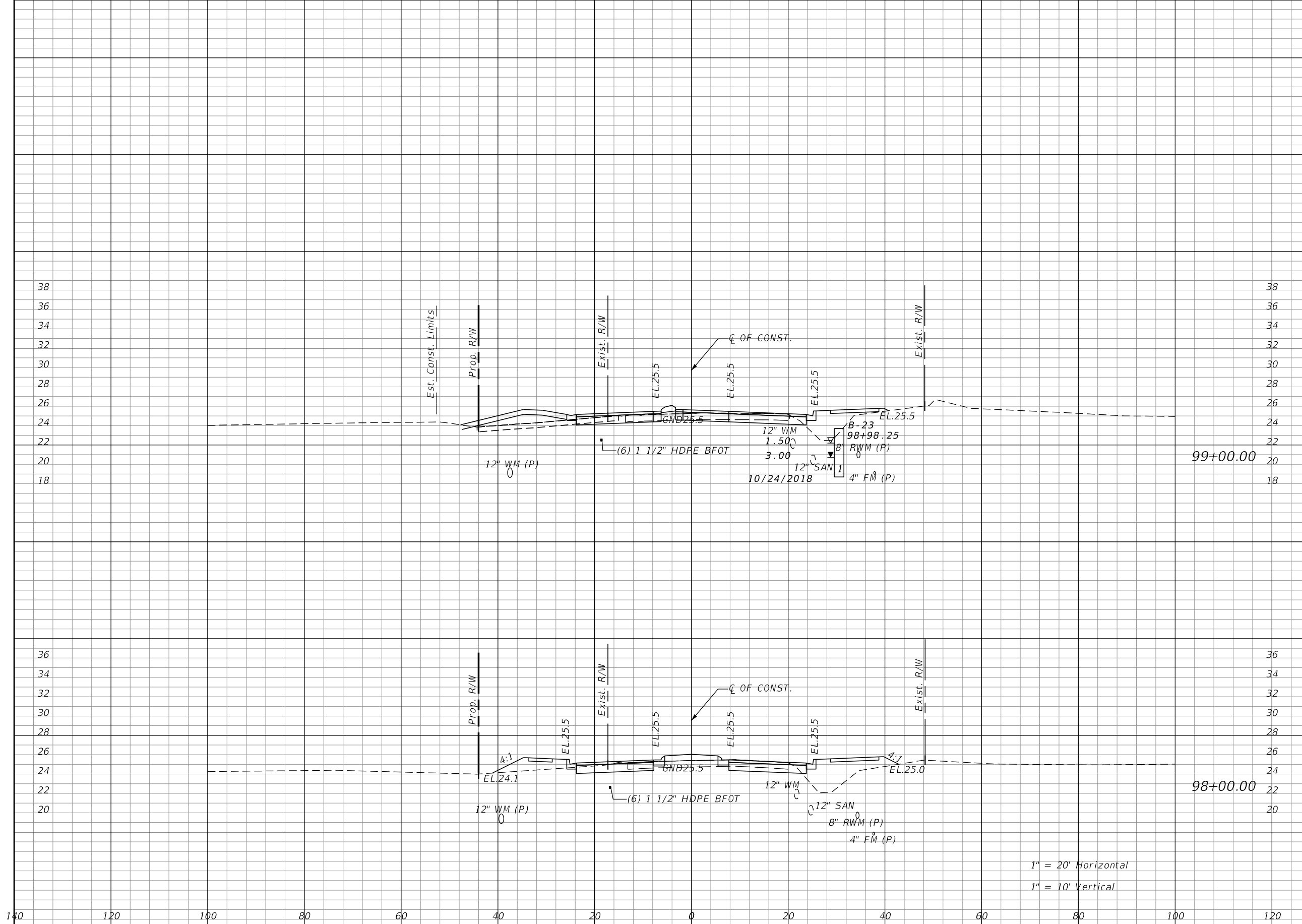
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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JASON R. FLICK, P.E.  
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## ROADWAY CROSS-SECTIONS

SHEET NO.  
221



Regular		Exc.		Embankment	
A	V	A	V	A	V
			161.6		121.0
36.41		31.92			
		124.3			154.4
30.69		51.47			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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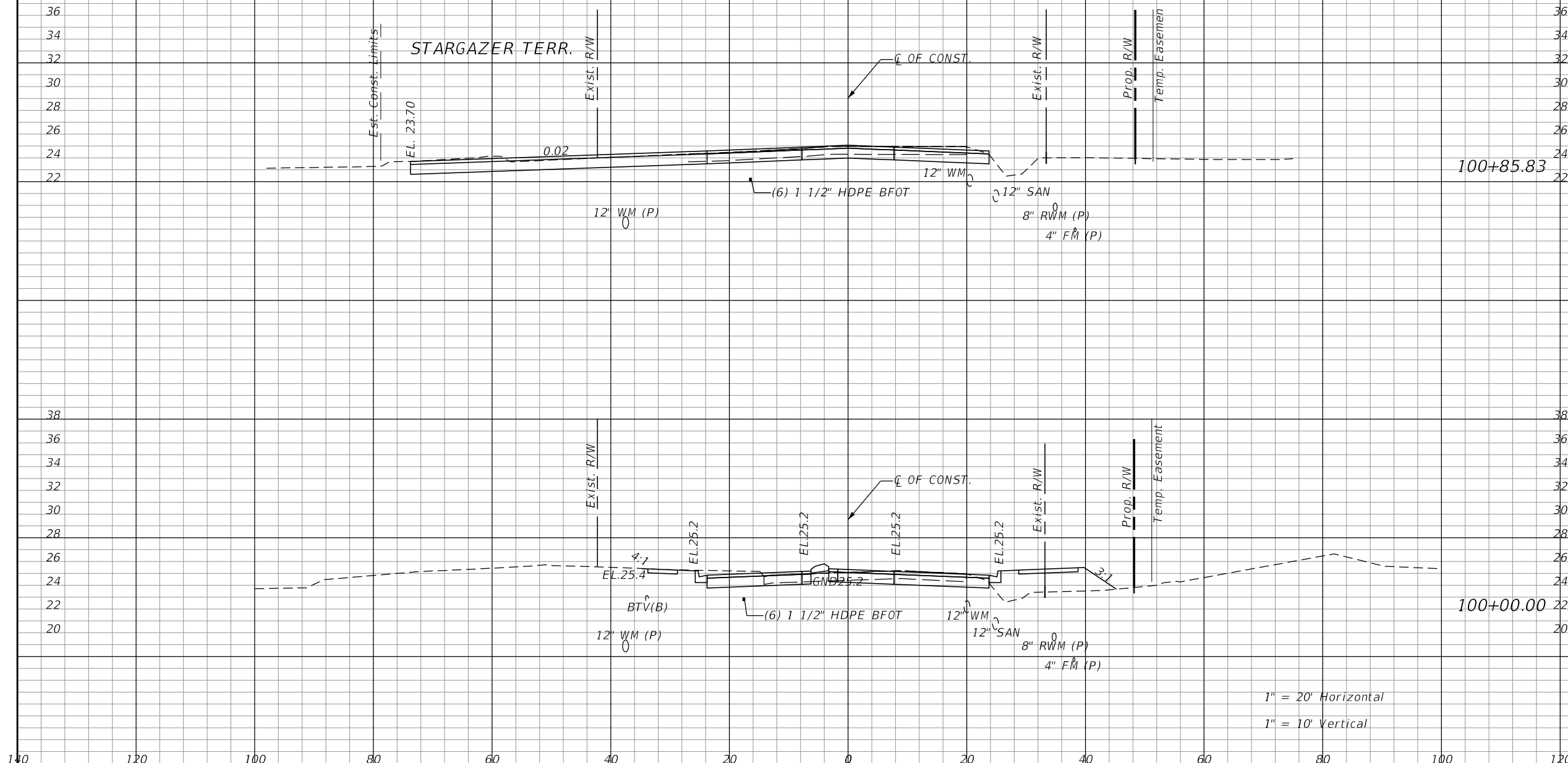
JASON R. FLICK, P.E.  
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SEMINOLE COUNTY PUBLIC WORKS		
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CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
222

Regular		Exc.		Embankment	
A	V	A	V	A	V



50.87		33.42	
-------	--	-------	--

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

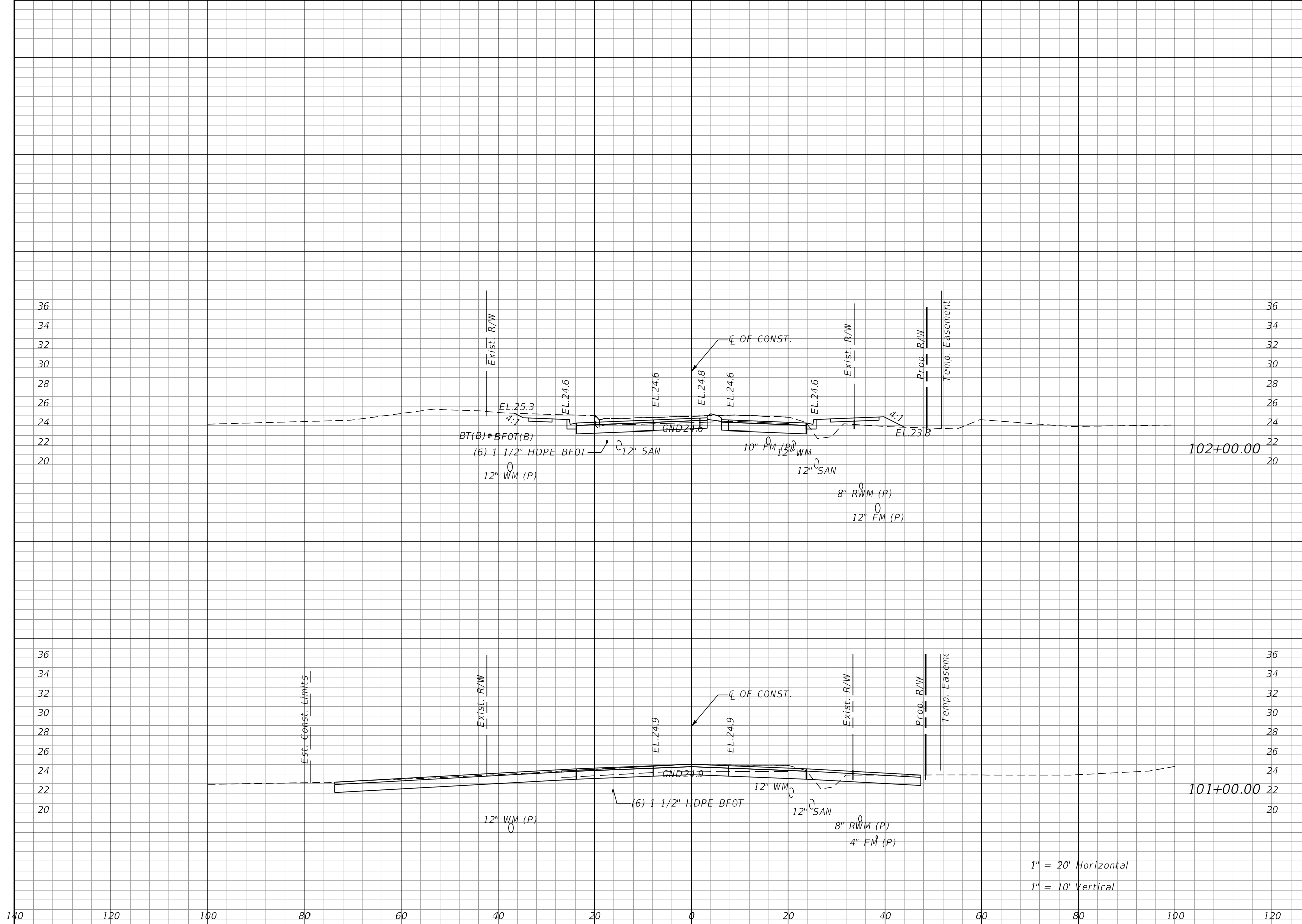
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.	223
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Regular		Exc.		Embankment	
A	V	A	V	A	V
			218.7		79.8
77.03		14.74			
		356.6			33.2
115.52		3.21			

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

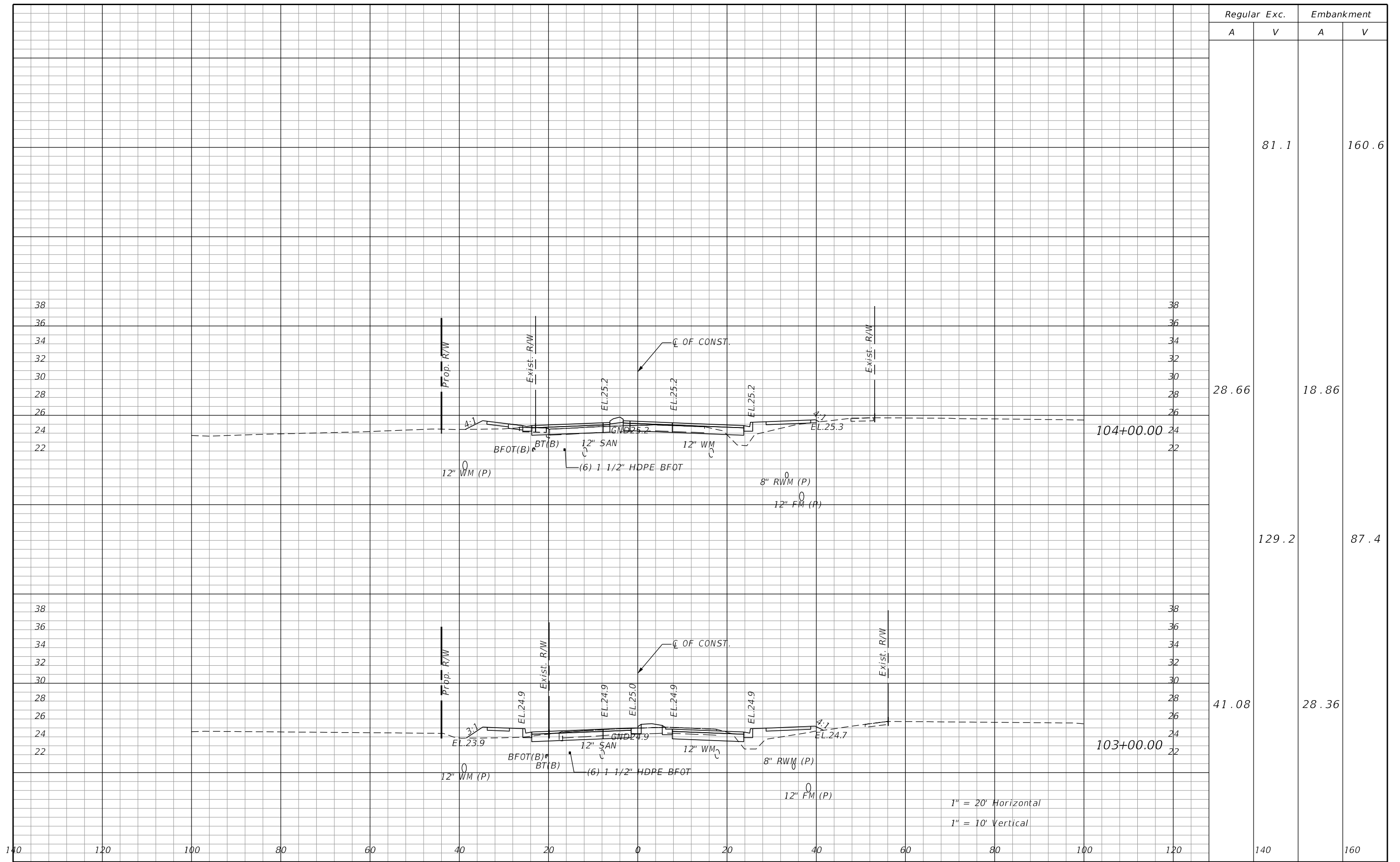
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SEMINOLE COUNTY PUBLIC WORKS		
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CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.
224



Regular		Exc.		Embankment	
A	V	A	V	A	V
			81.1		160.6
28.66		18.86			
	129.2			87.4	
41.08		28.36			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

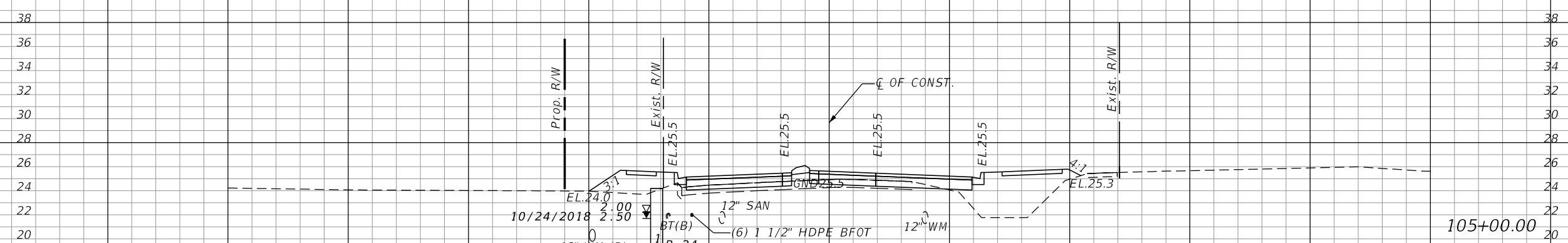
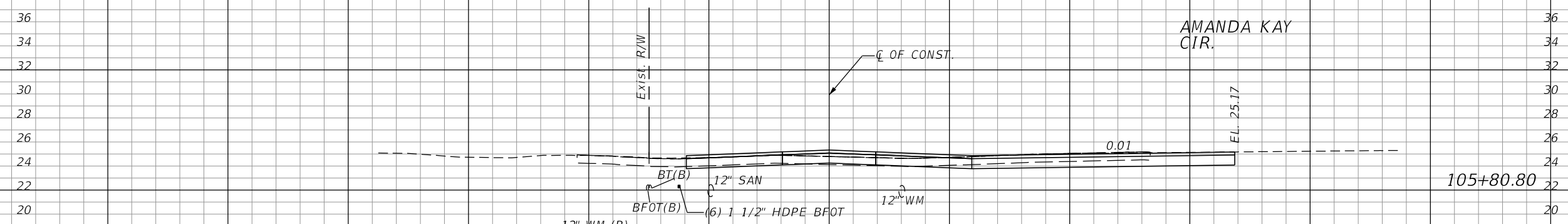
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.
225

Regular		Exc.		Embankment	
A	V	A	V	A	V

			144.0		126.0
--	--	--	-------	--	-------



		15.12		67.86	
--	--	-------	--	-------	--

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

140 160

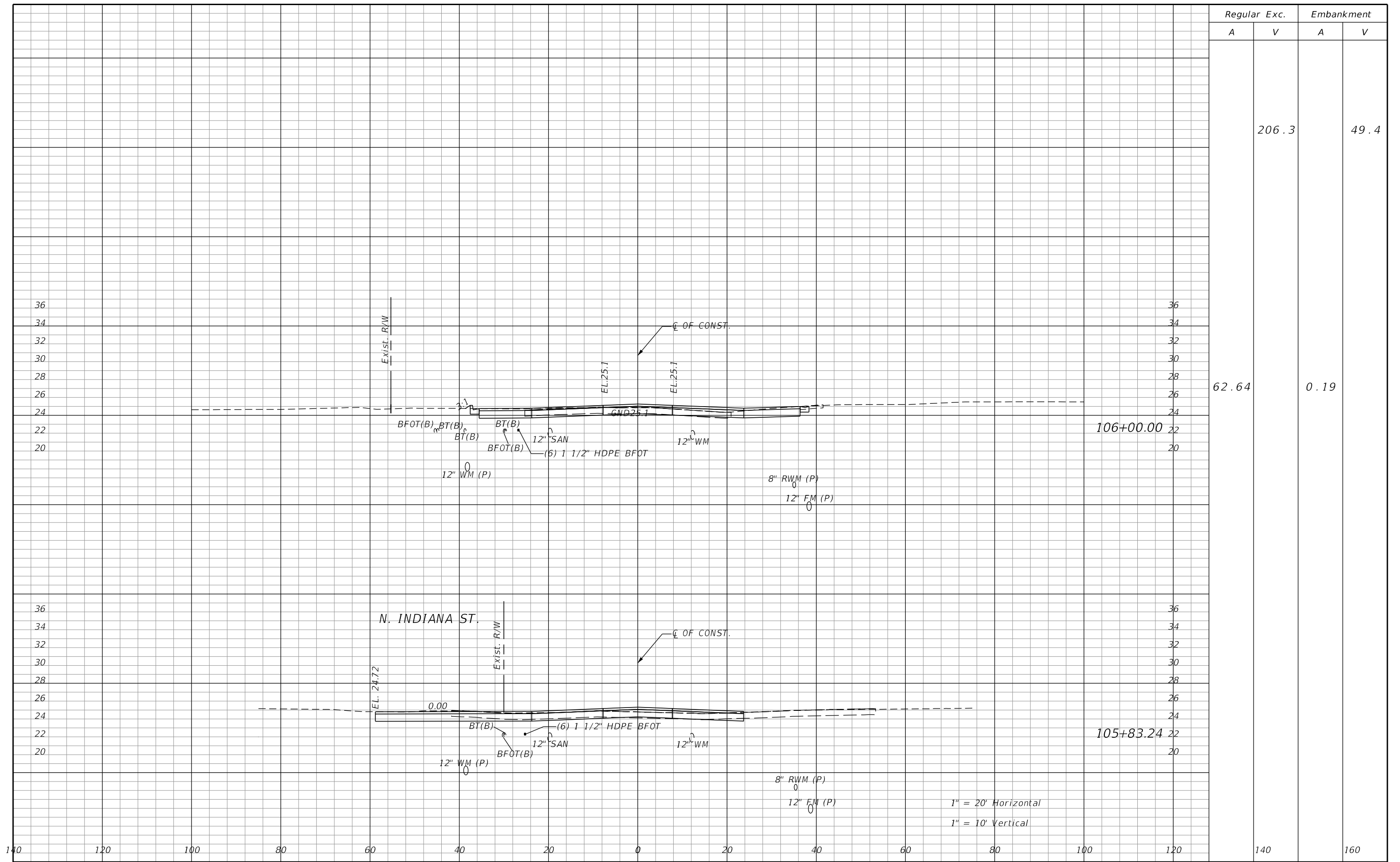
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
226



Regular		Exc.		Embankment	
A	V	A	V	A	V
			206.3		49.4
62.64				0.19	

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

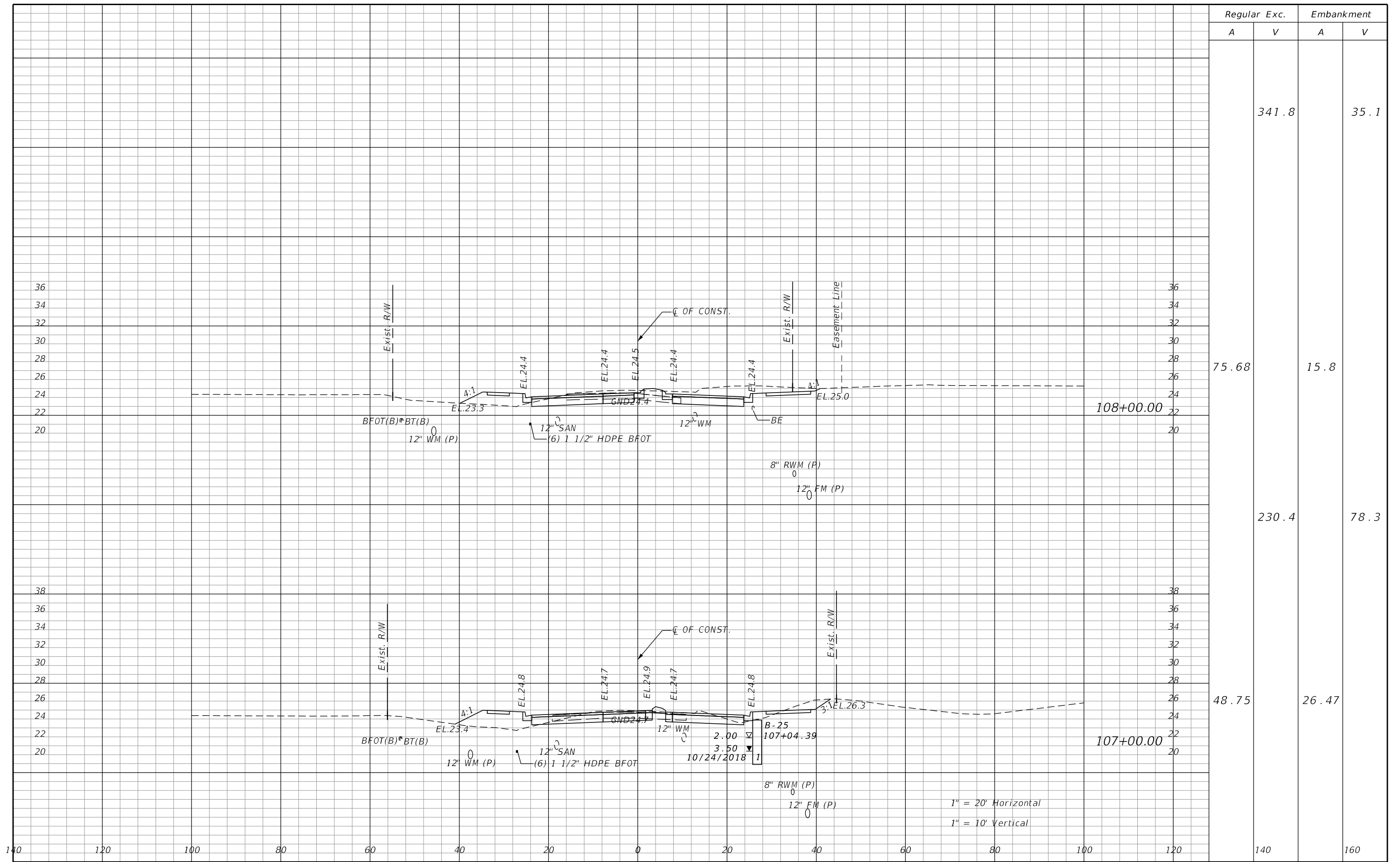
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
227



Regular		Exc.		Embankment	
A	V	A	V	A	V
			341.8		35.1
75.68		15.8			
	230.4		78.3		
48.75		26.47			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

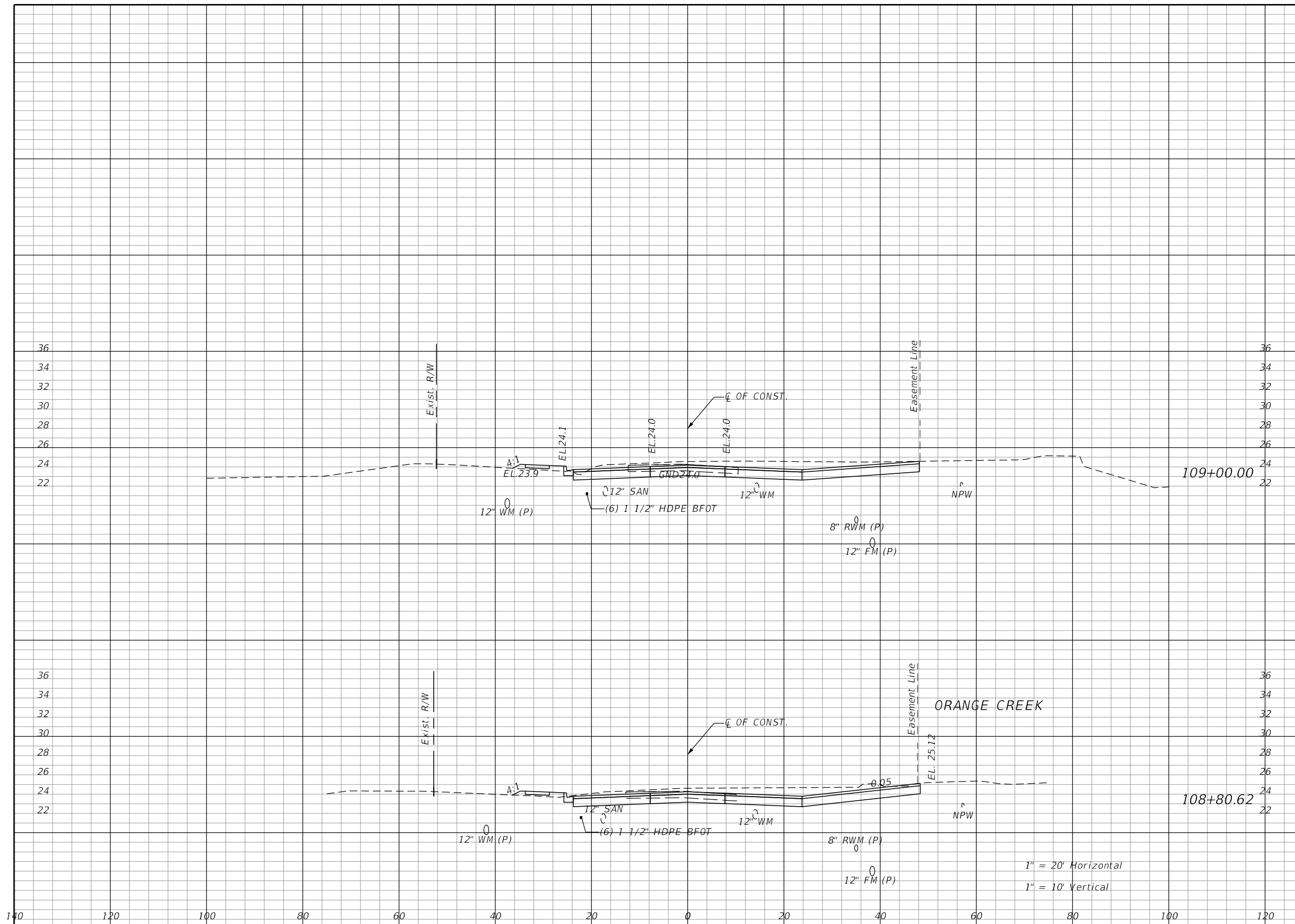
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		228



Regular		Exc.		Embankment	
A	V	A	V	A	V



108.89

3.17

109+00.00

108+80.62

ORANGE CREEK

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

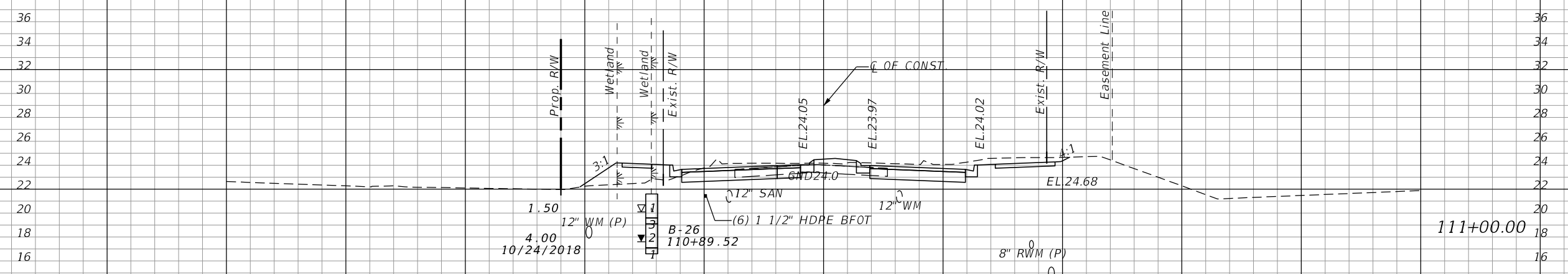
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
229

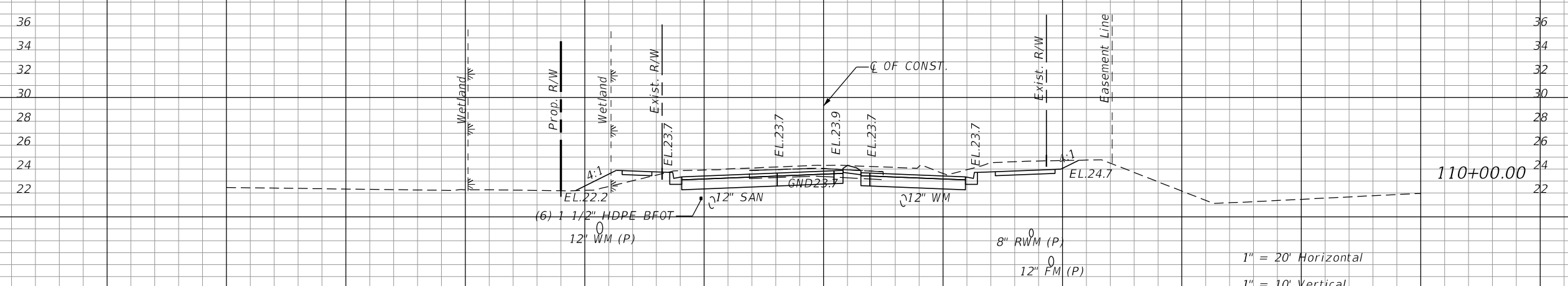
Regular		Exc.		Embankment	
A	V	A	V	A	V

			163.6		87.2
--	--	--	-------	--	------



63.68		19.7
-------	--	------

	288.7	51.8
--	-------	------



92.23		8.26
-------	--	------

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

140 160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

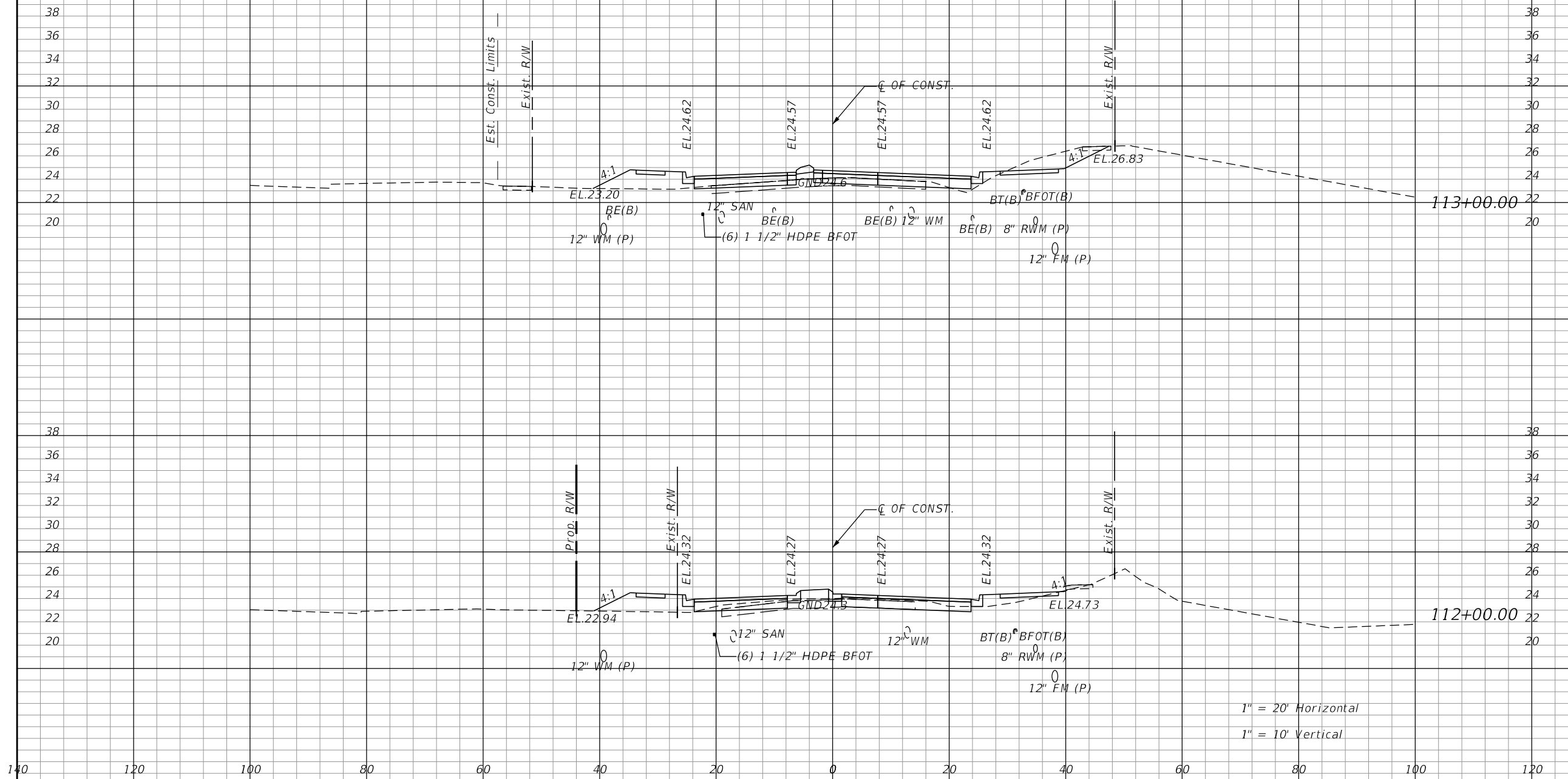
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
230

Regular		Exc.		Embankment	
A	V	A	V	A	V



30.42

22.82

24.64

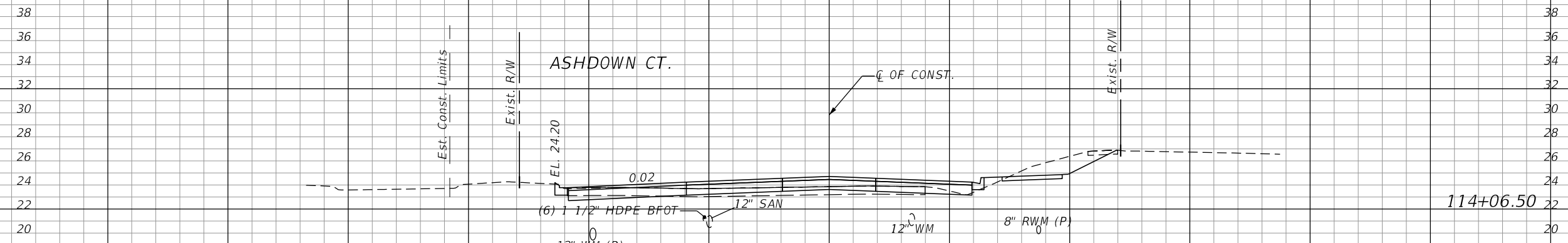
27.4

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

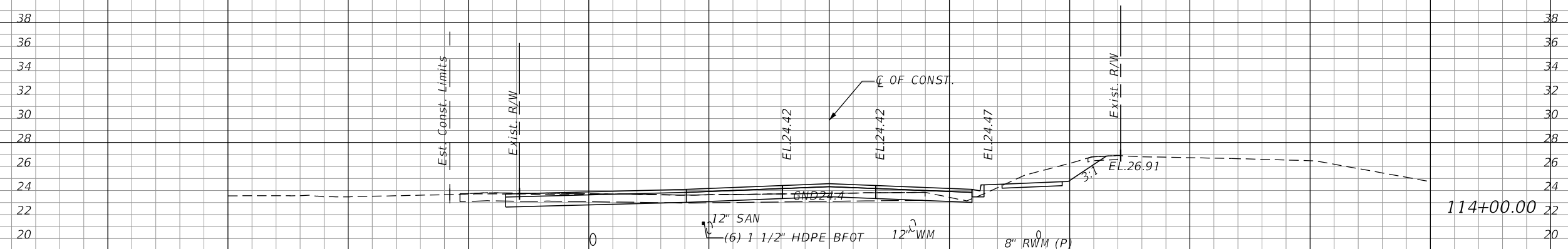
REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>ROADWAY CROSS-SECTIONS</b>	SHEET NO. 231
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303			

Regular		Exc.		Embankment	
A	V	A	V	A	V

213.8      14.6



114+06.50



114+00.00

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

64.03      1.35

140      120      100      80      60      40      20      0      20      40      60      80      100      120

140      160

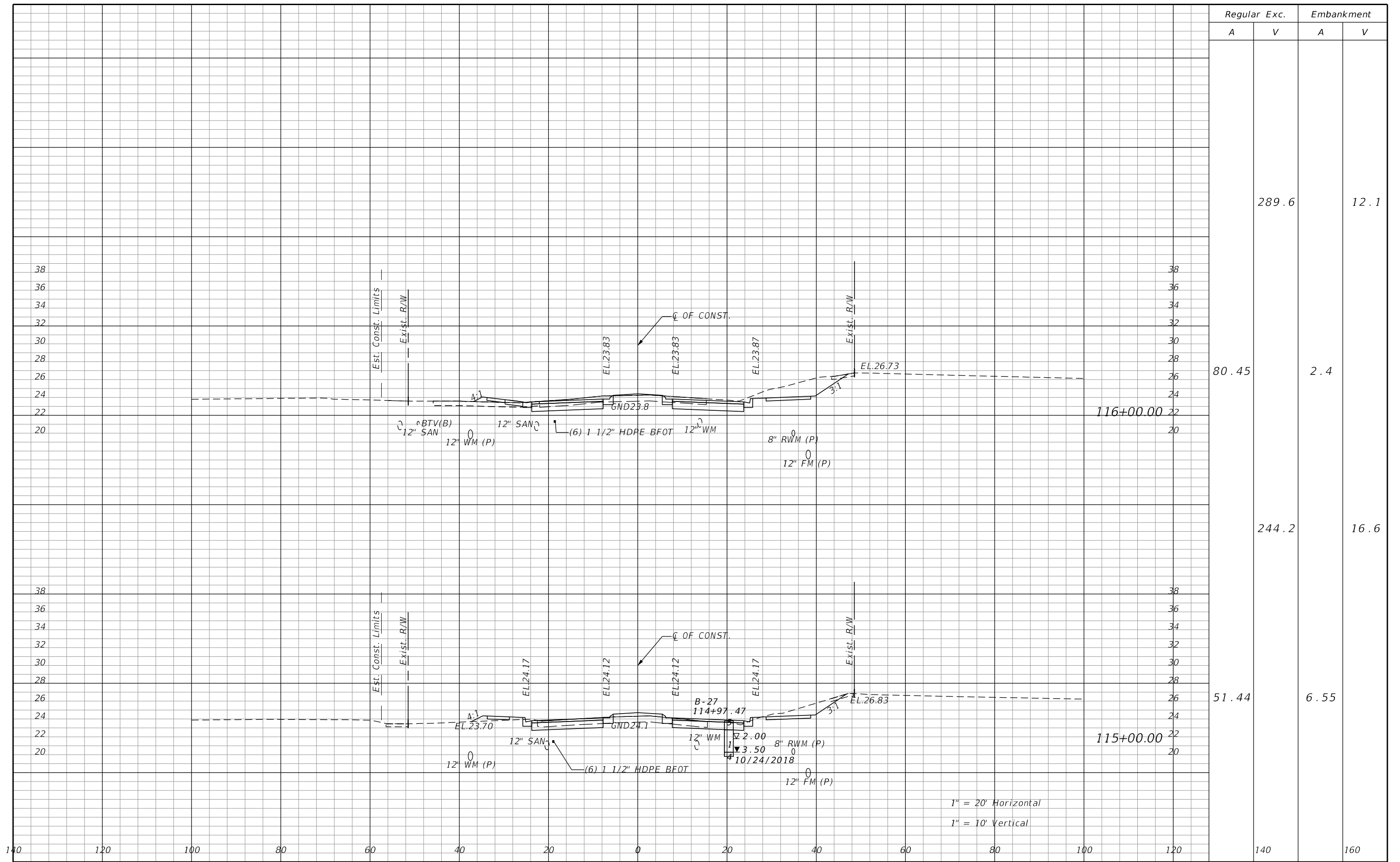
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**  
174.9

SHEET NO.  
44.8  
232



Regular		Exc.		Embankment	
A	V	A	V	A	V
			289.6		12.1
80.45			2.4		
		244.2			16.6
51.44			6.55		

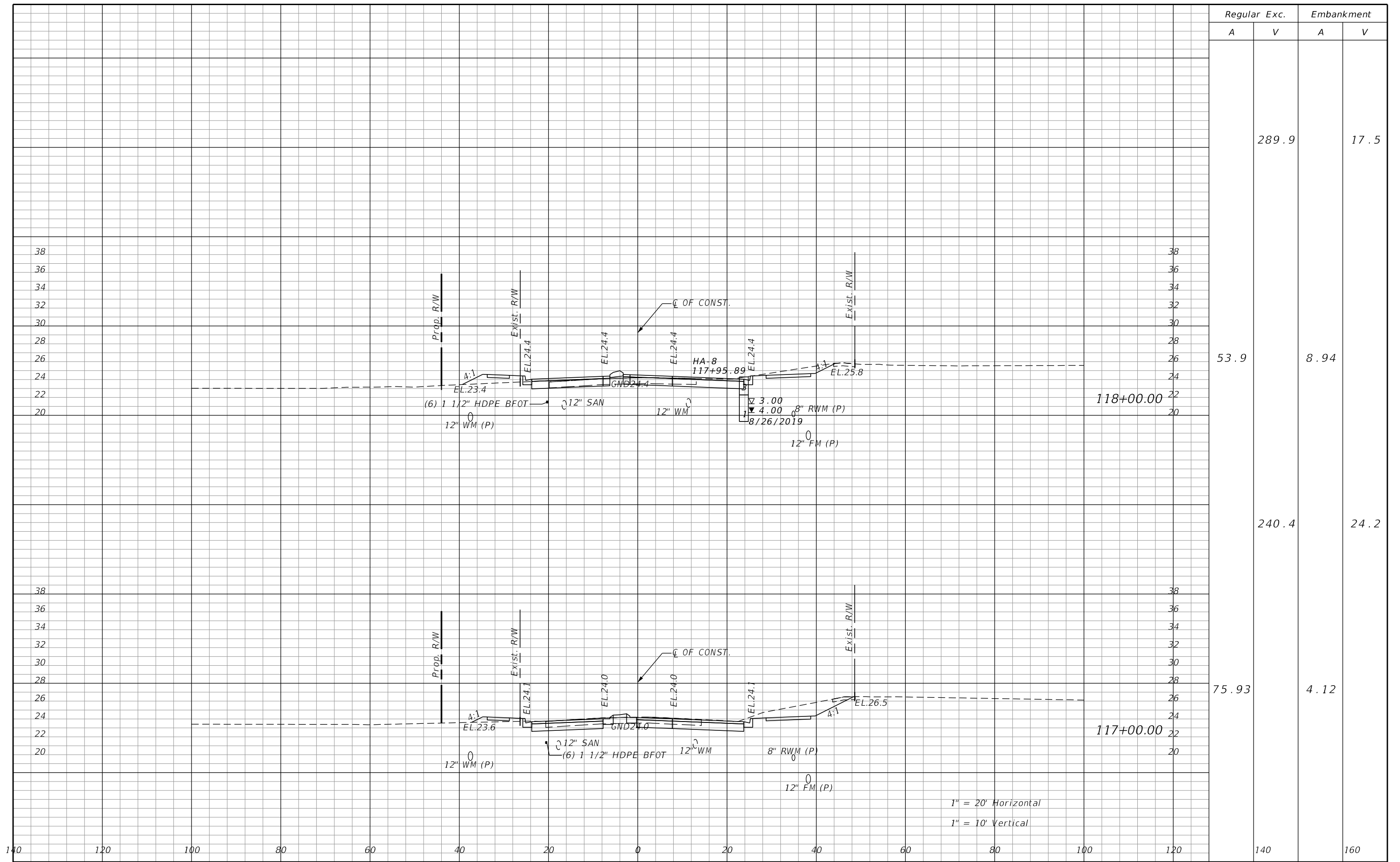
1" = 20' Horizontal  
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		233



Regular		Exc.		Embankment	
A	V	A	V	A	V
			289.9		17.5
53.9			8.94		
		240.4			24.2
75.93			4.12		

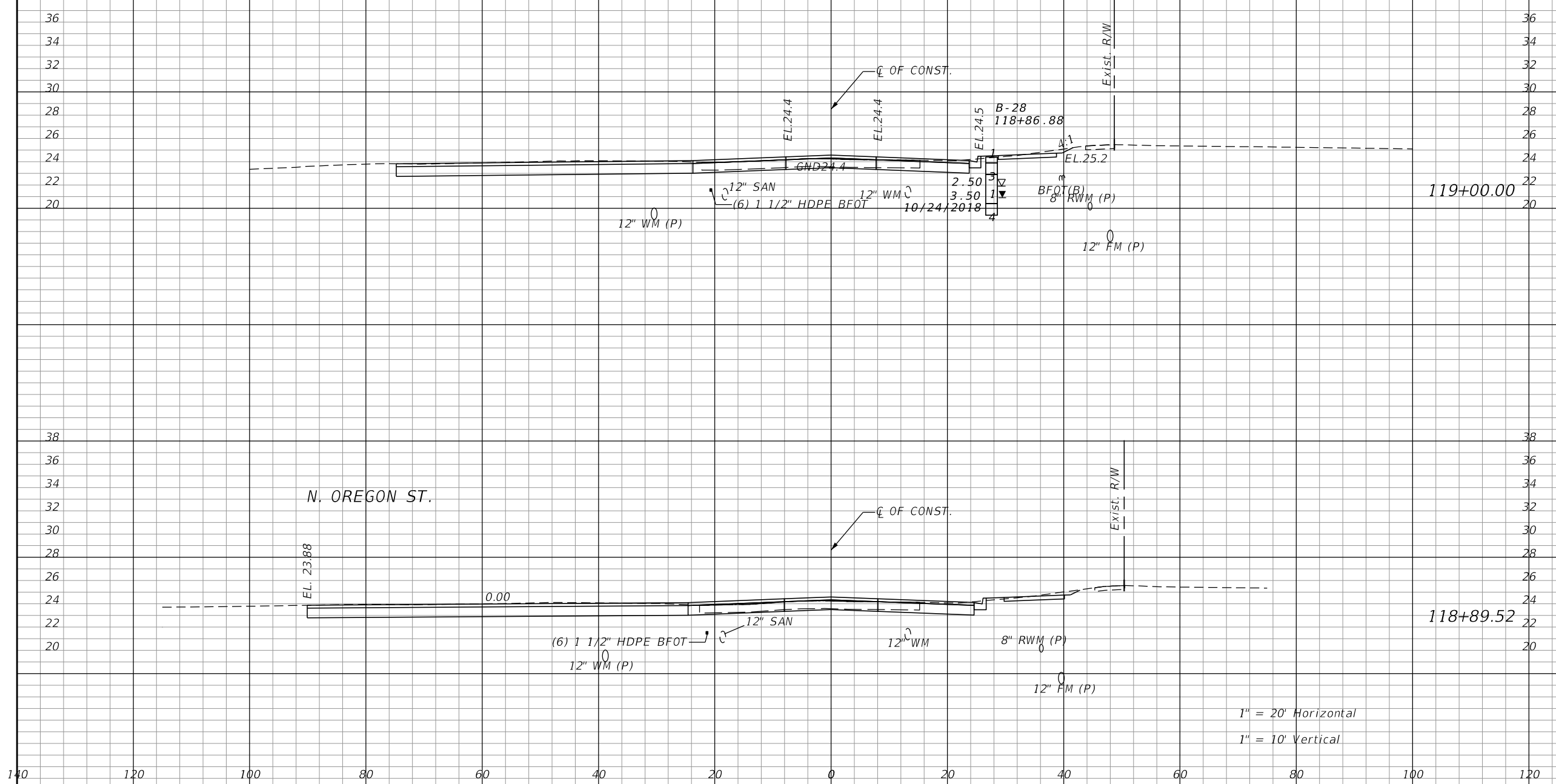
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<b>ROADWAY CROSS-SECTIONS</b>	SHEET NO. 234
-------------------------------	------------------

Regular		Exc.		Embankment	
A	V	A	V	A	V



102.62

0.51

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

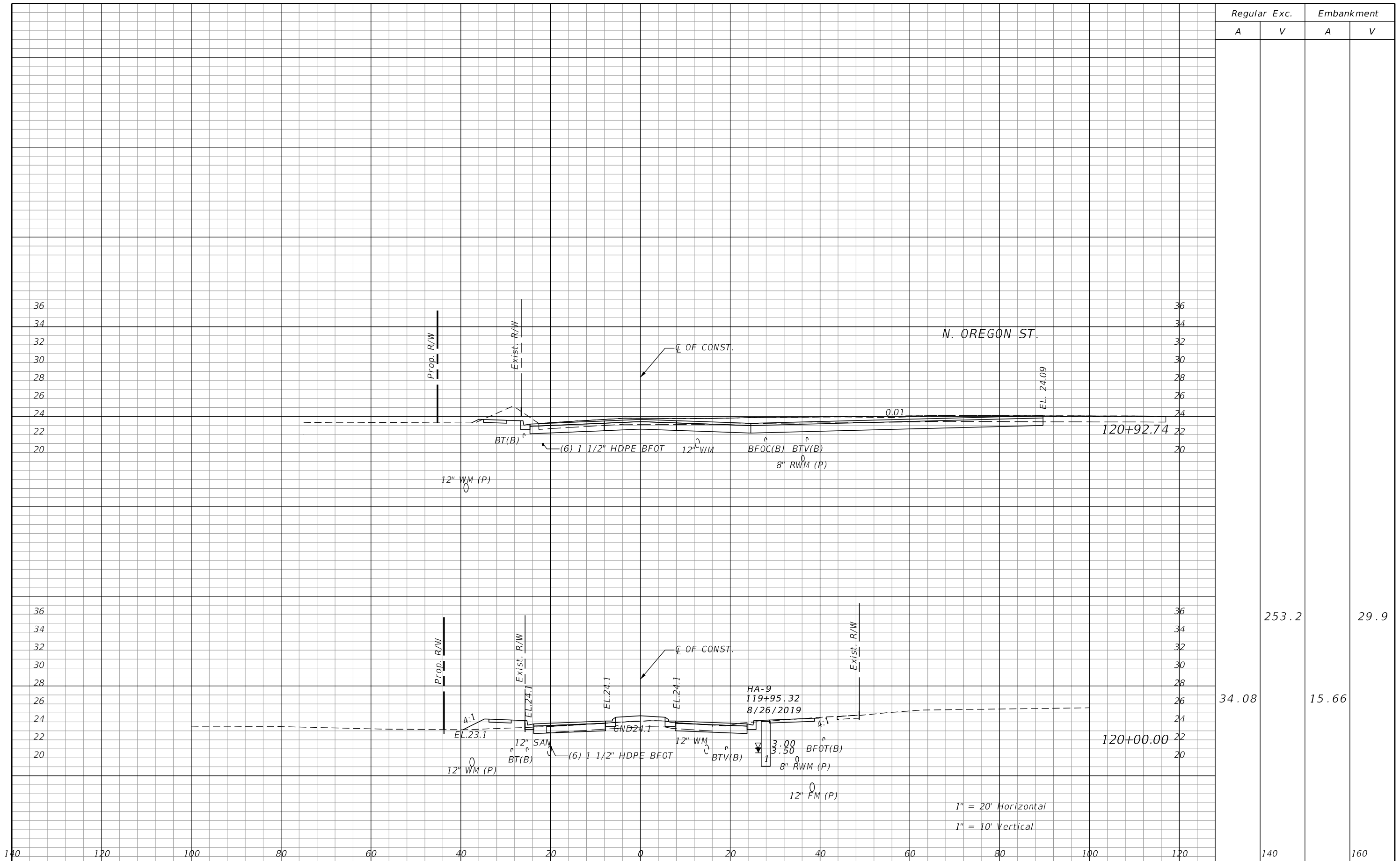
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
235



Regular		Exc.		Embankment	
A	V	A	V	A	V
		253.2		29.9	
34.08			15.66		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

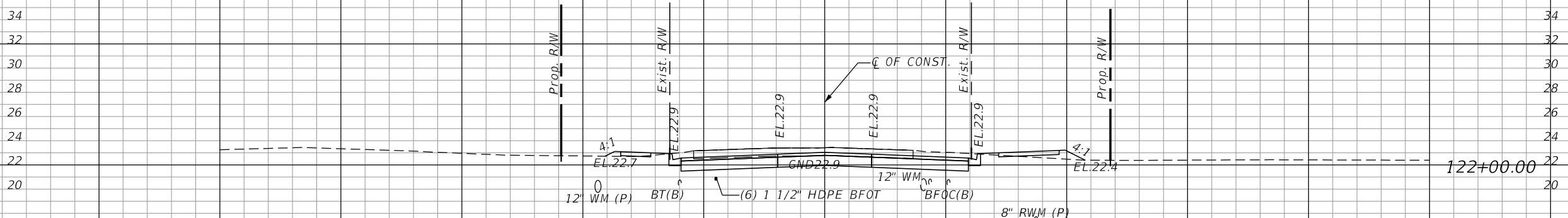
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

***ROADWAY CROSS-SECTIONS***

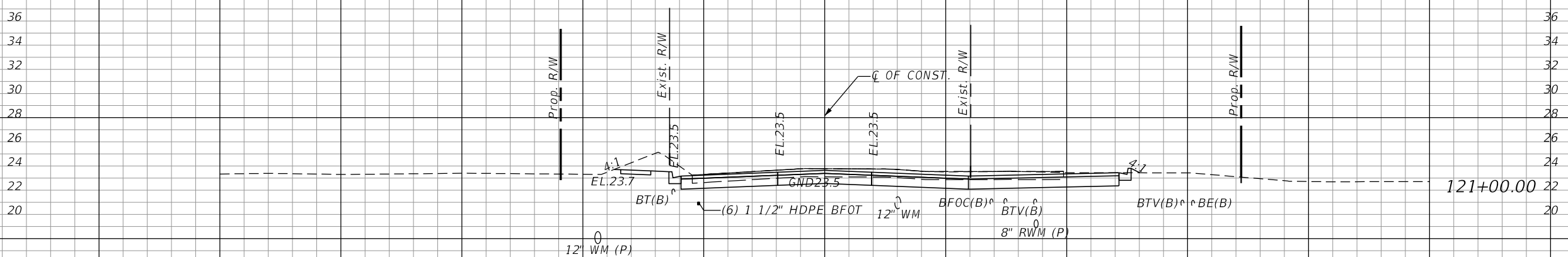
SHEET NO.  
**236**



Regular		Exc.		Embankment	
A	V	A	V	A	V



77.86      4.72



107.58      0.28

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

140      120      100      80      60      40      20      0      20      40      60      80      100      120

140      160

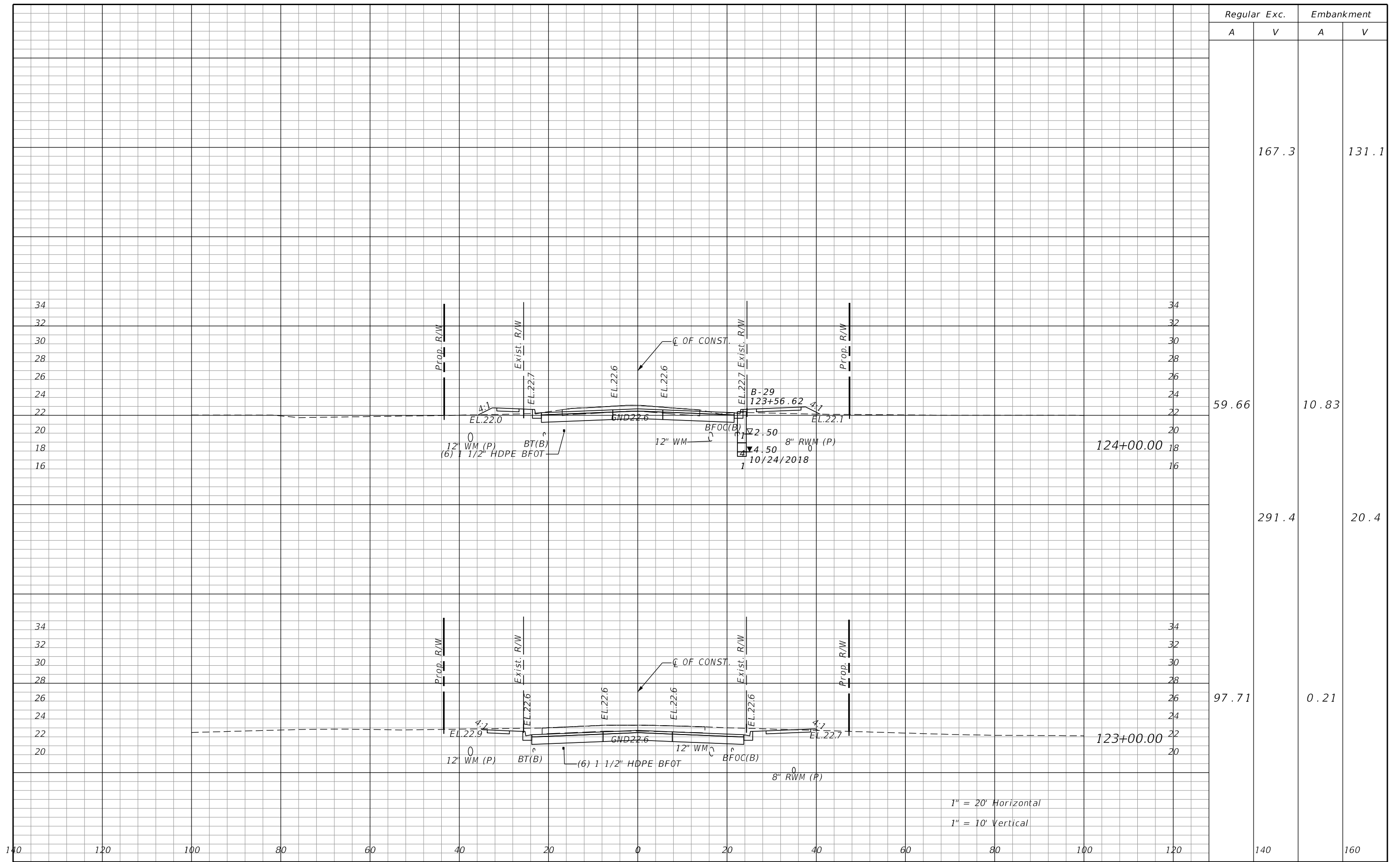
REVISIONS	
DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION	

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

# ROADWAY CROSS-SECTIONS

SHEET NO.  
237



Regular		Exc.		Embankment	
A	V	A	V	A	V
			167.3		131.1
59.66			10.83		
		291.4			20.4
97.71			0.21		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

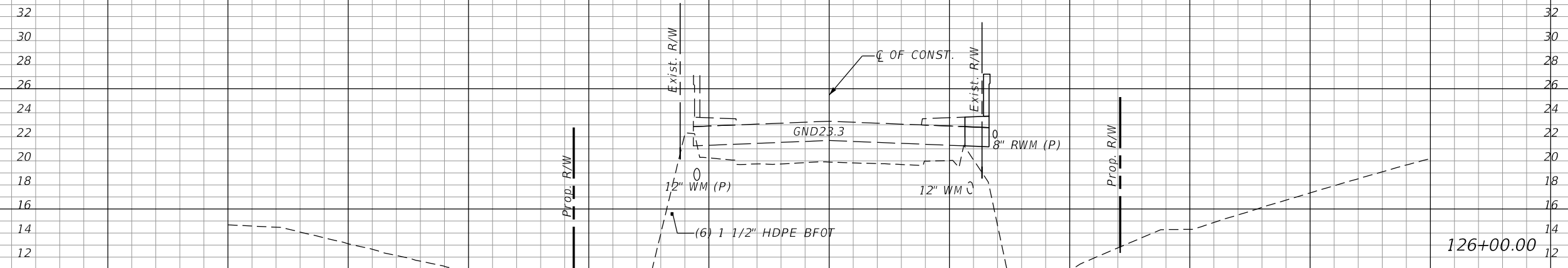
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		238

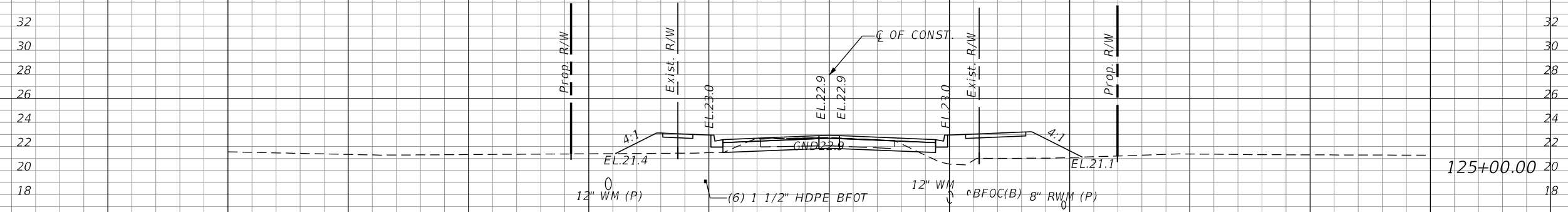
Regular		Exc.		Embankment	
A	V	A	V	A	V

65.8 38.9



0 0

56.8 111.0



30.67 59.94

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

140 160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

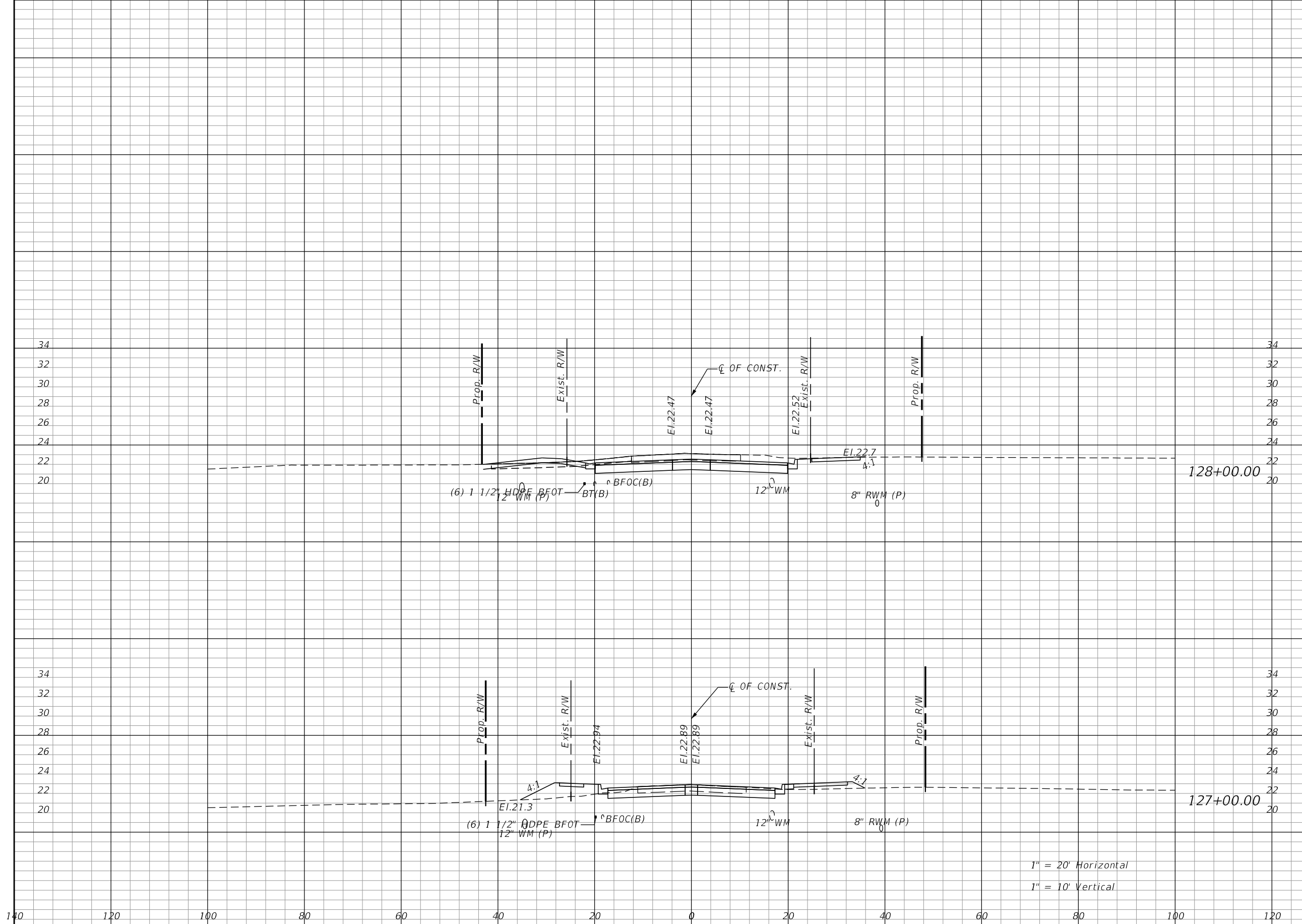
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
239

Regular		Exc.		Embankment	
A	V	A	V	A	V



			627.1		0.1
		78.97		0.06	
			212.1		39.0
		35.55		20.99	
140					160

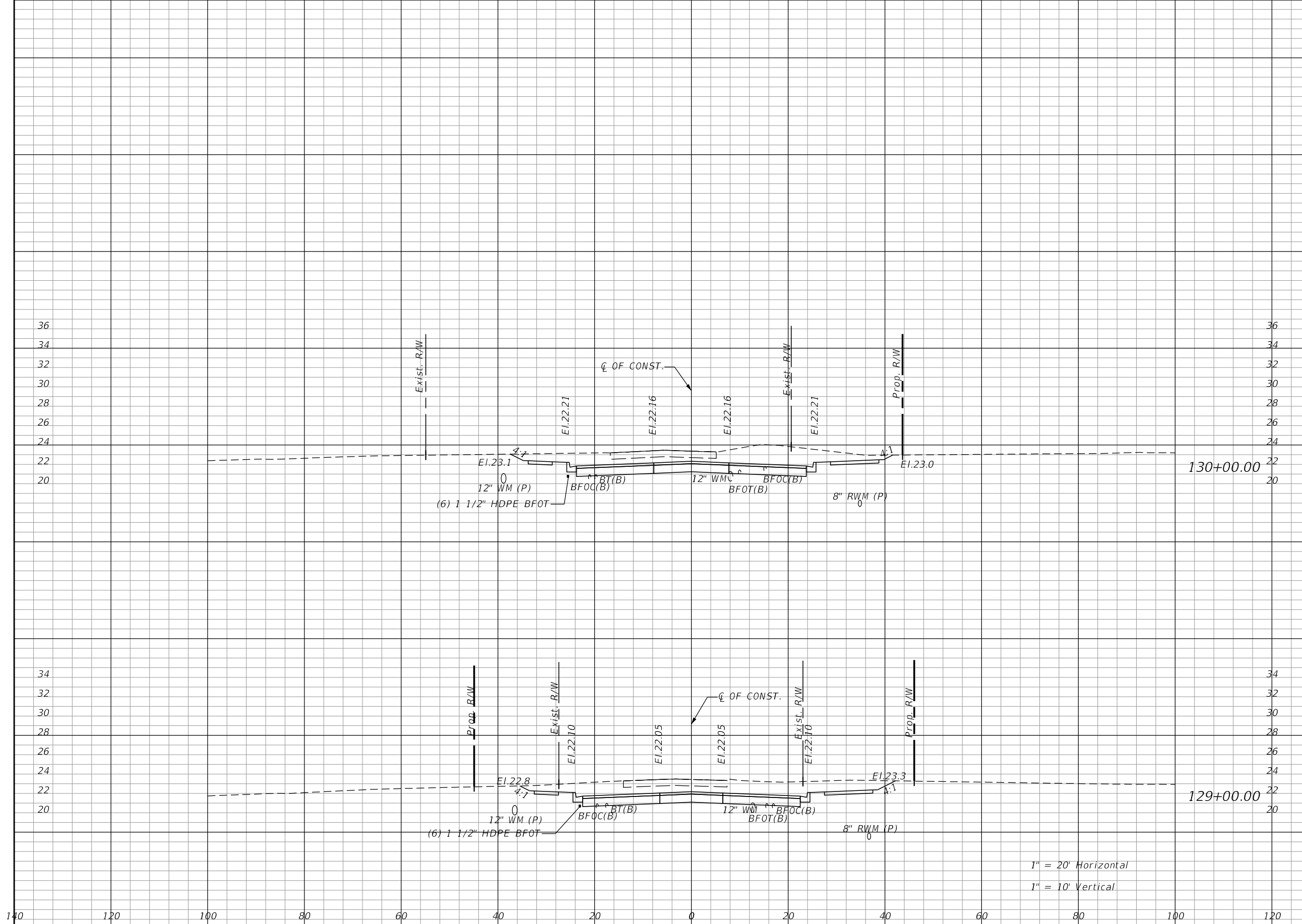
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
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615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
240



Regular		Exc.		Embankment	
A	V	A	V	A	V
	450.2		0.0		
152.05		0			
	762.4		0.0		
259.67		0			

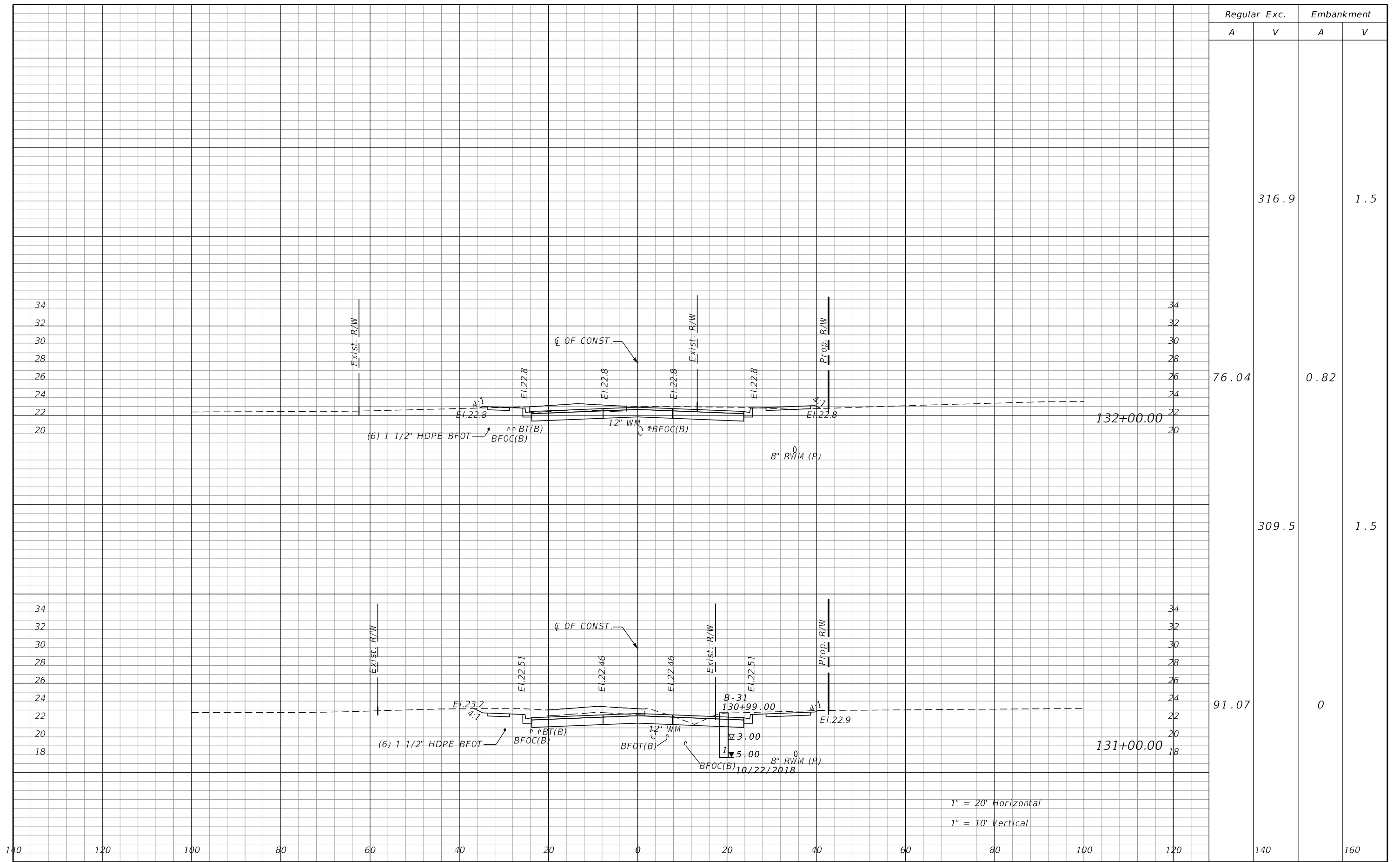
1" = 20' Horizontal  
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		241



Regular		Exc.		Embankment	
A	V	A	V	A	V
			316.9		1.5
76.04		0.82			
			309.5		1.5
91.07		0			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

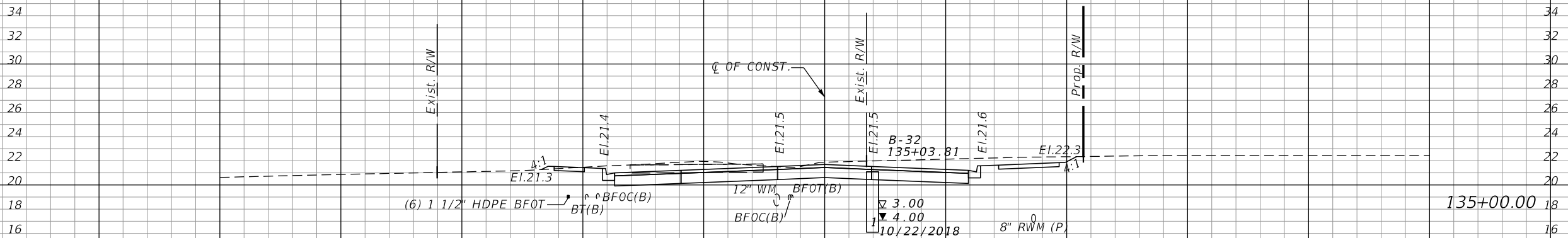
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		242



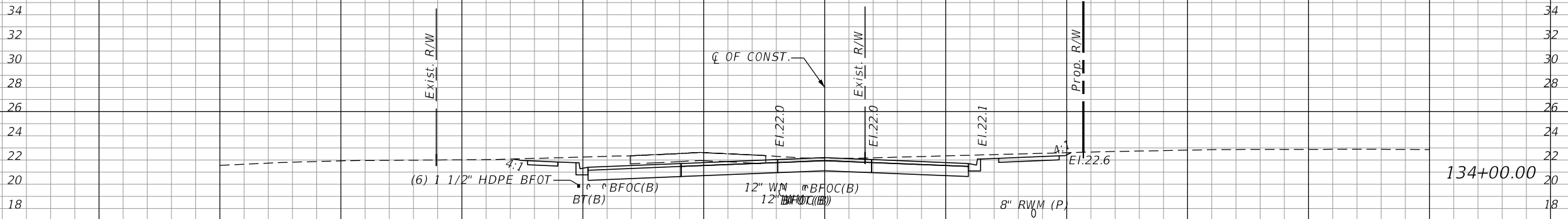
Regular		Exc.		Embankment	
A	V	A	V	A	V

347.4      2.1



109.34      0

413.8      0.0



114.11      0

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

140      120      100      80      60      40      20      0      20      40      60      80      100      120

140      160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

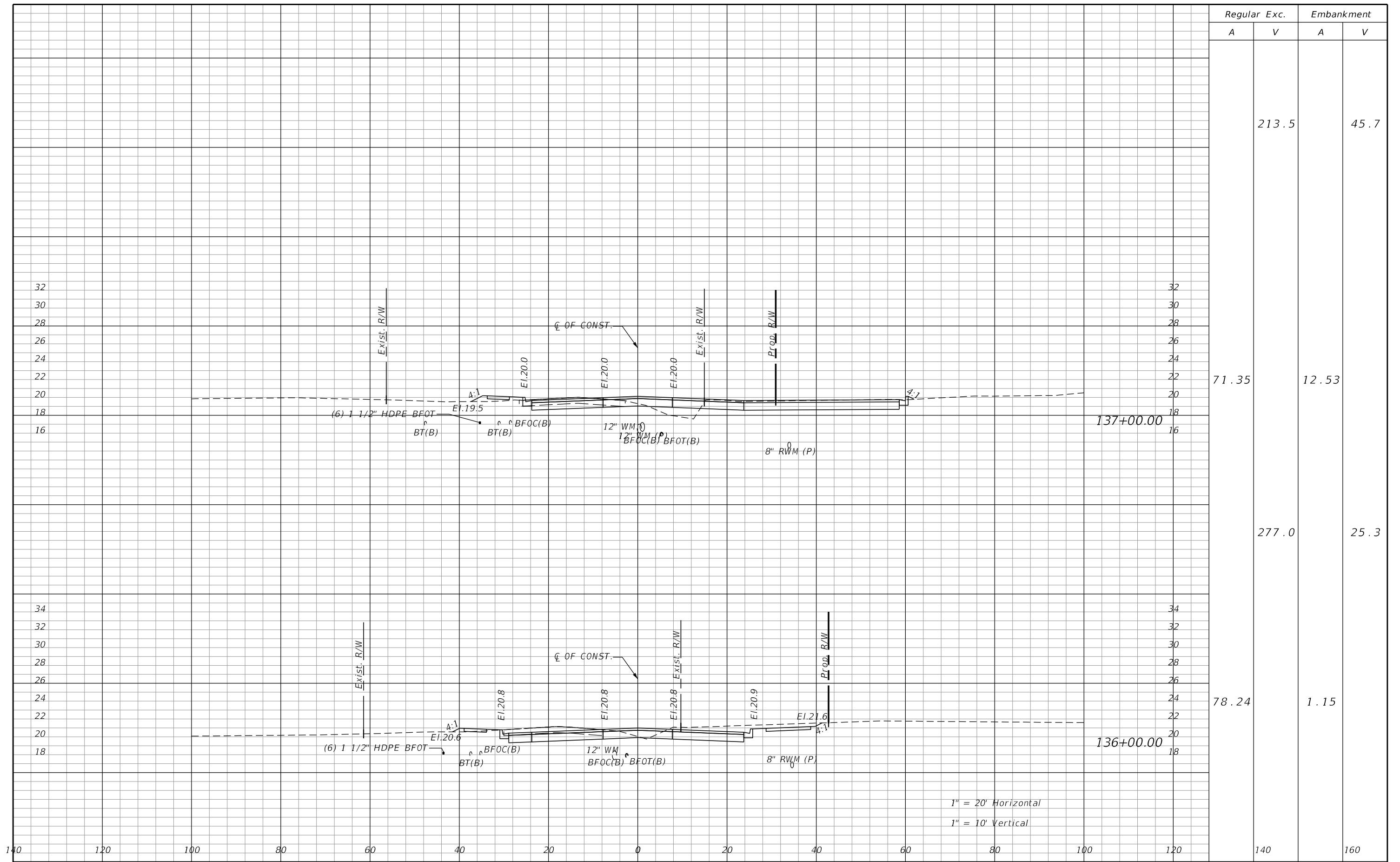
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
244





Regular		Exc.		Embankment	
A	V	A	V	A	V
			213.5		45.7
71.35				12.53	
			277.0		25.3
78.24				1.15	

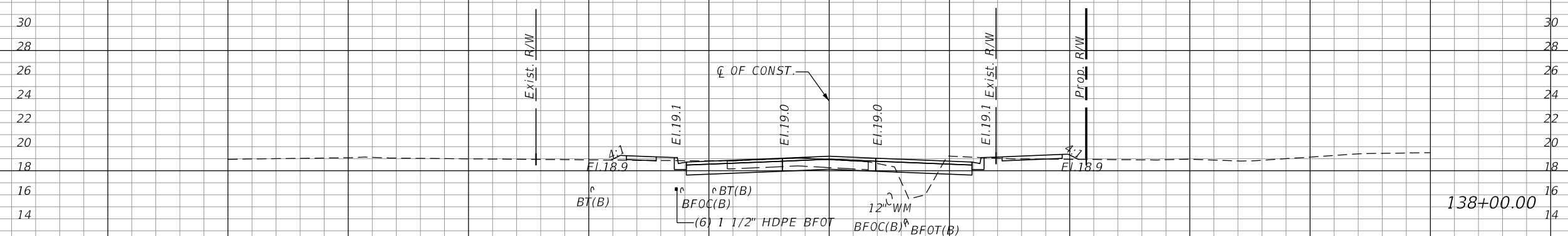
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<b>ROADWAY CROSS-SECTIONS</b>	SHEET NO. 245
-------------------------------	------------------

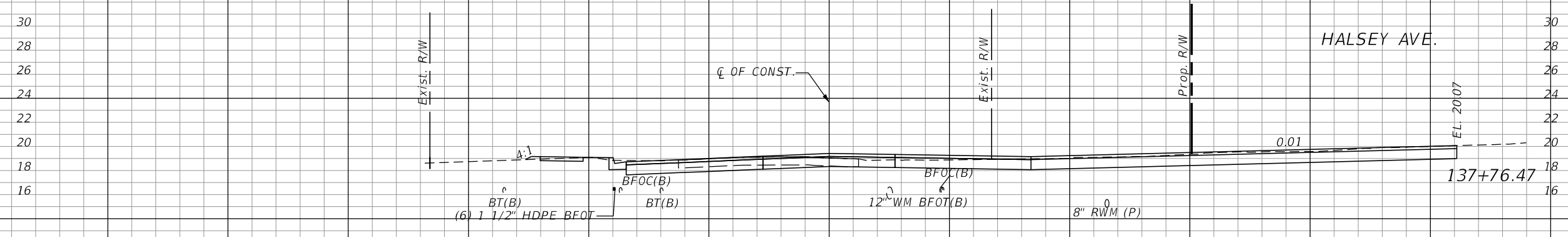
Regular		Exc.		Embankment	
A	V	A	V	A	V



43.95

12.16

138+00.00



HALSEY AVE.

137+76.47

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

140 160

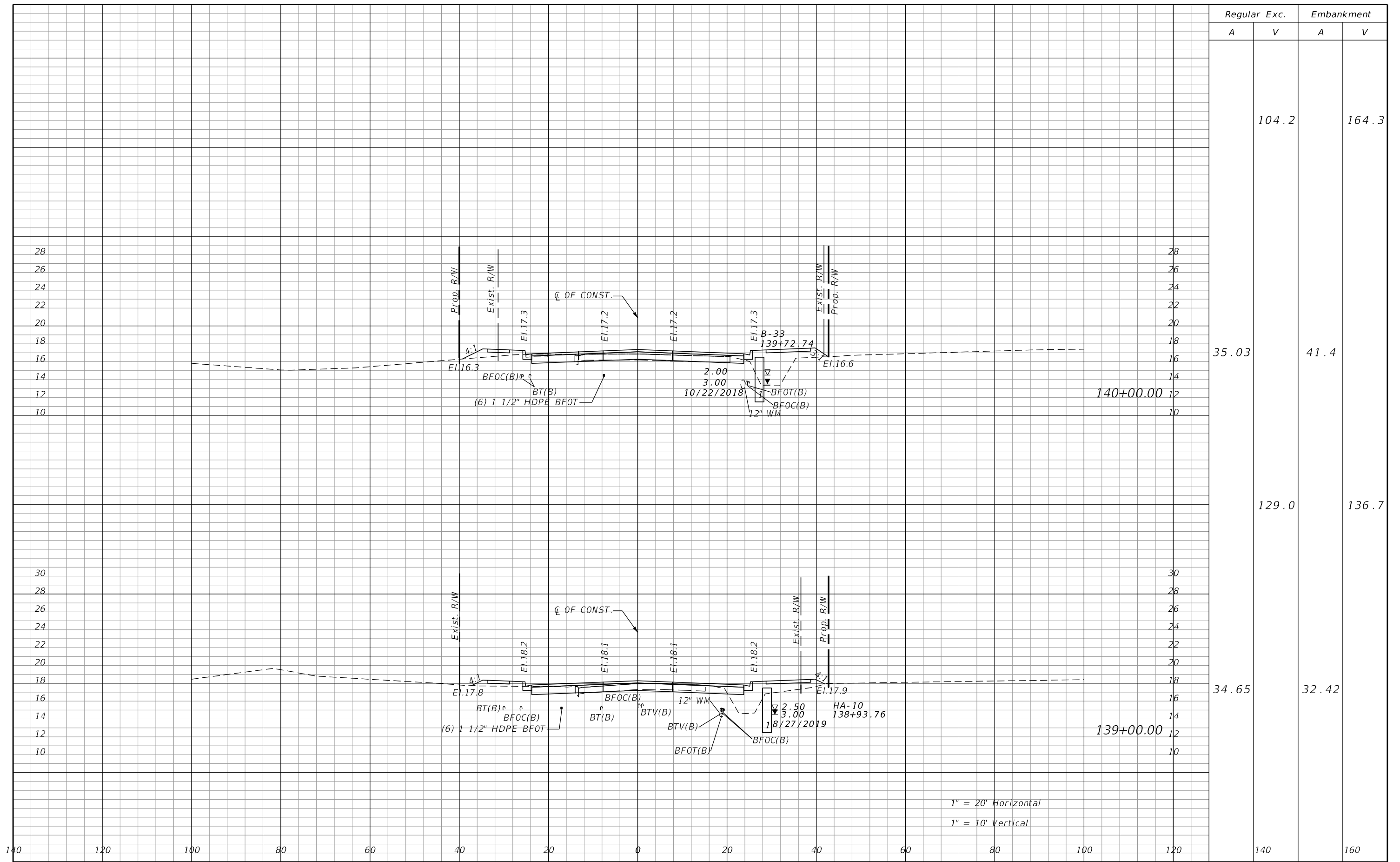
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
246



Regular		Exc.		Embankment	
A	V	A	V	A	V
			104.2		164.3
35.03			41.4		
		129.0		136.7	
34.65			32.42		

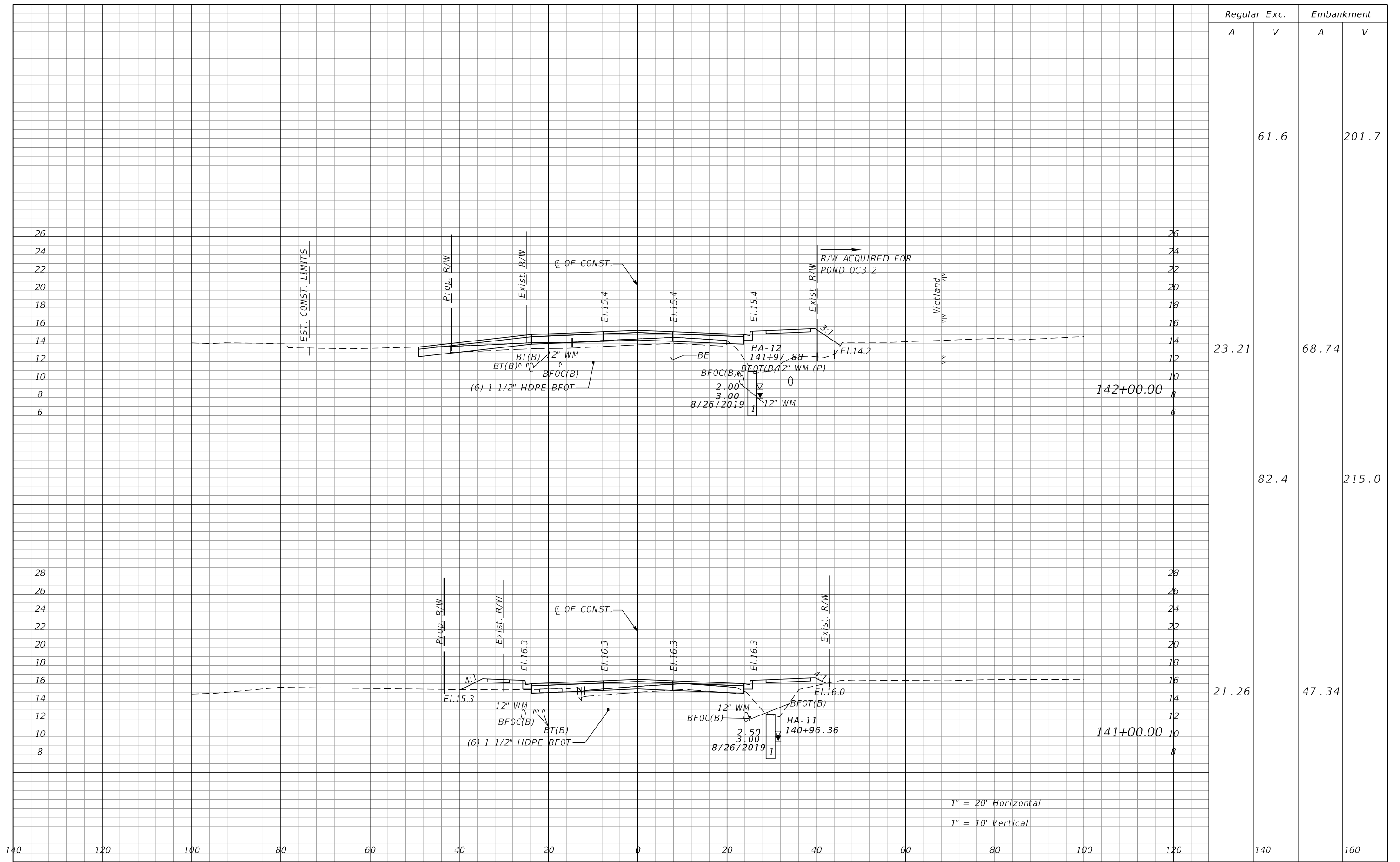
1" = 20' Horizontal  
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		247



Regular		Exc.		Embankment	
A	V	A	V	A	V
	61.6			201.7	
23.21		68.74			
	82.4			215.0	
21.26		47.34			

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

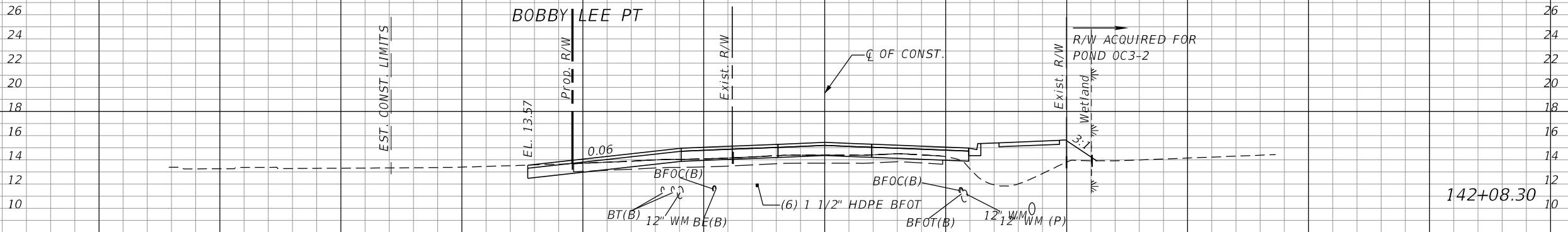
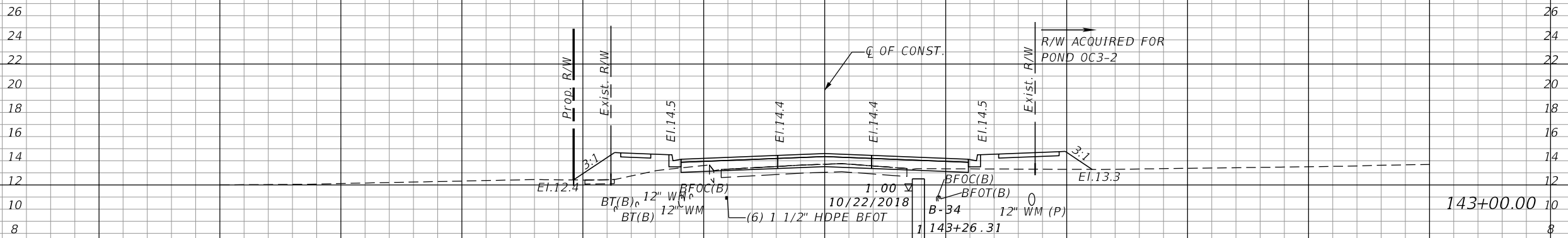
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		248

Regular		Exc.		Embankment	
A	V	A	V	A	V
			20.9		245.4
10.03		40.19			



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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

140 160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

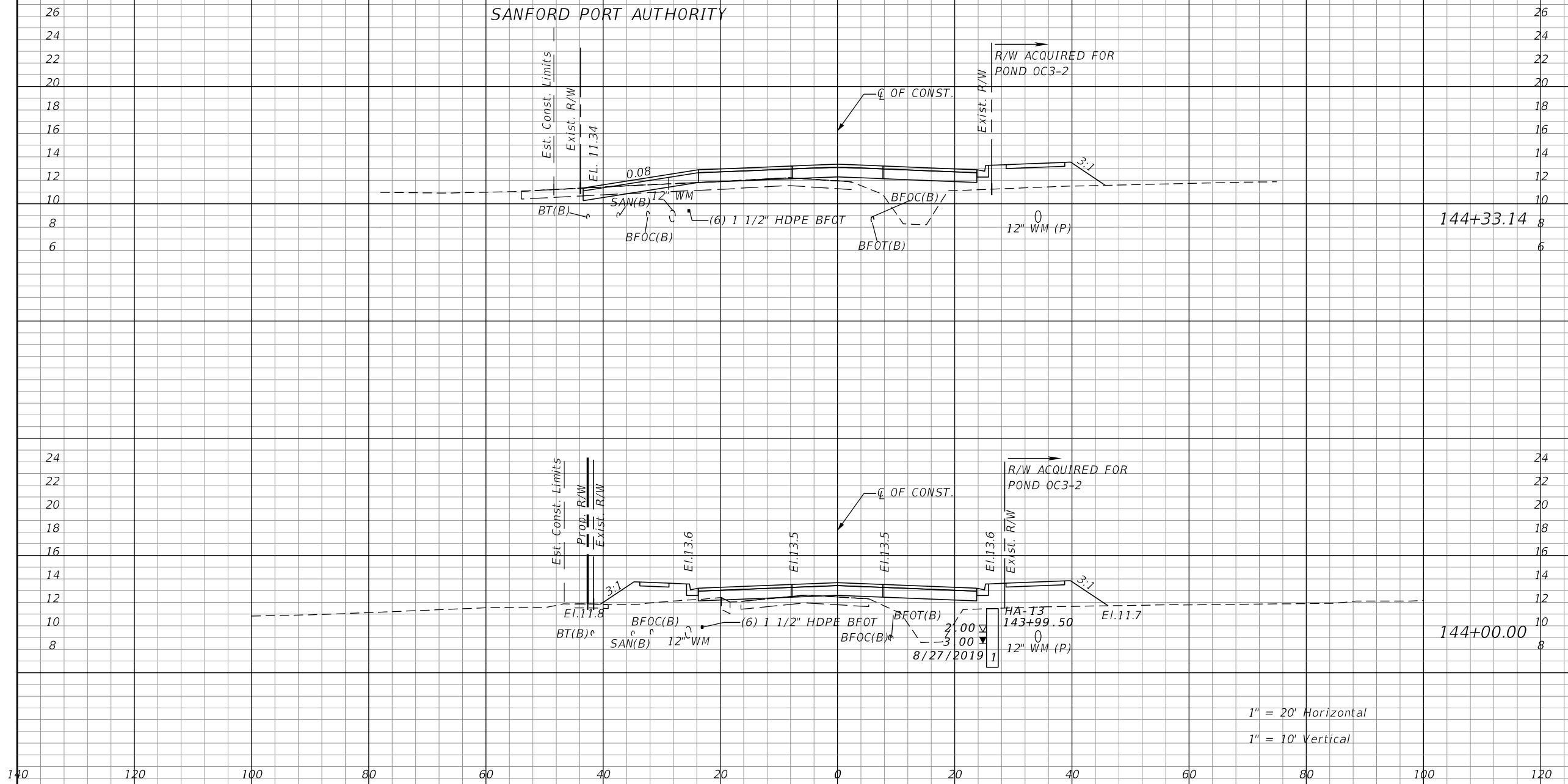
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
249

Regular		Exc.		Embankment	
A	V	A	V	A	V



144+33.14

1.24

92.32

144+00.00

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

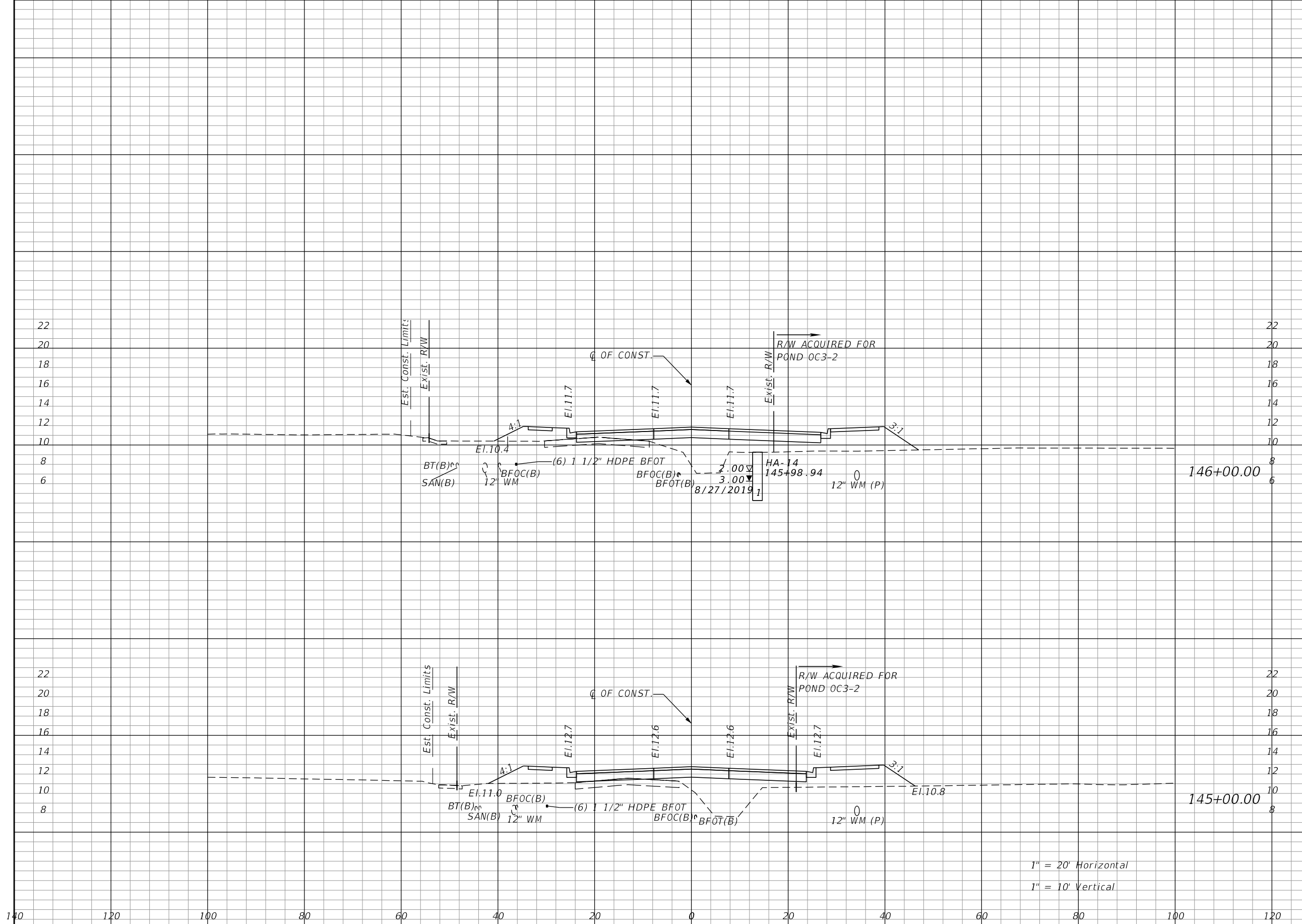
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
250



Regular		Exc.		Embankment	
A	V	A	V	A	V
			30.8		301.3
3.42				107.2	
			7.8		400.4
0.8				109.02	

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

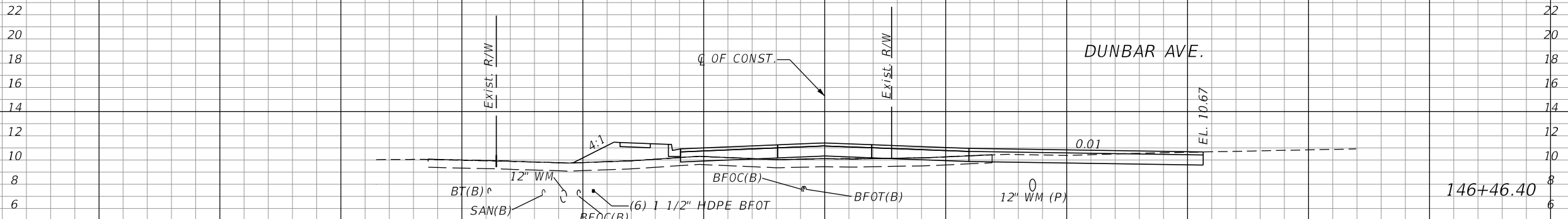
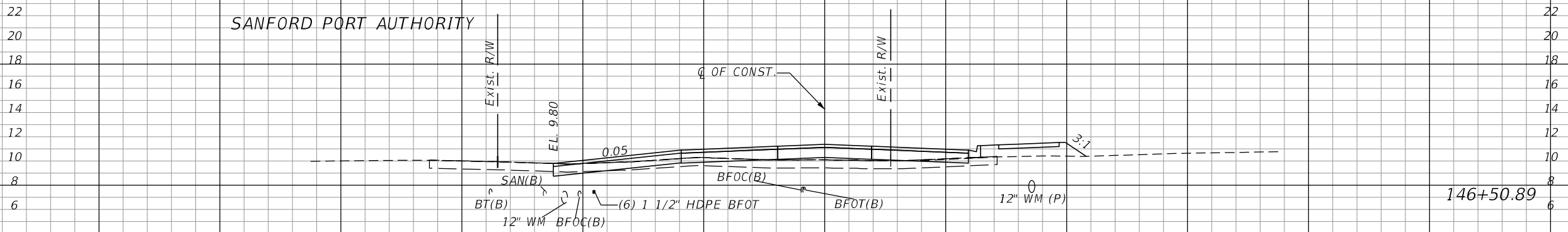
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
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615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		251

Regular		Exc.		Embankment	
A	V	A	V	A	V



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

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

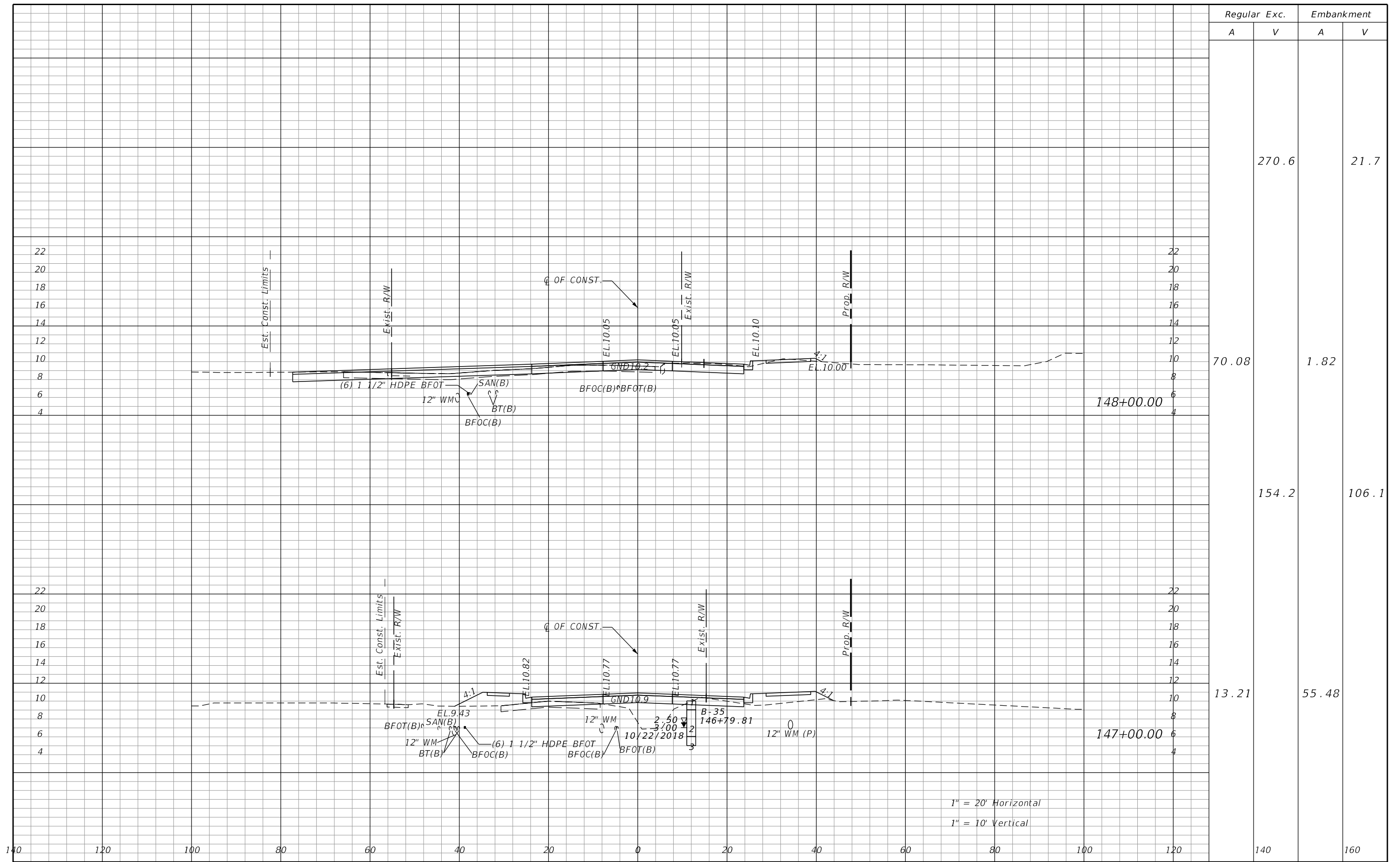
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
252





Regular		Exc.		Embankment	
A	V	A	V	A	V
			270.6		21.7
70.08			1.82		
			154.2		106.1
13.21			55.48		

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

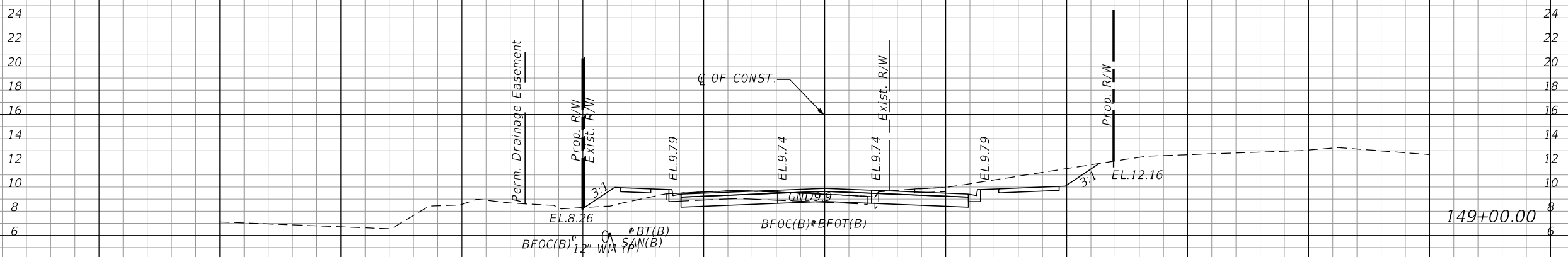
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		253

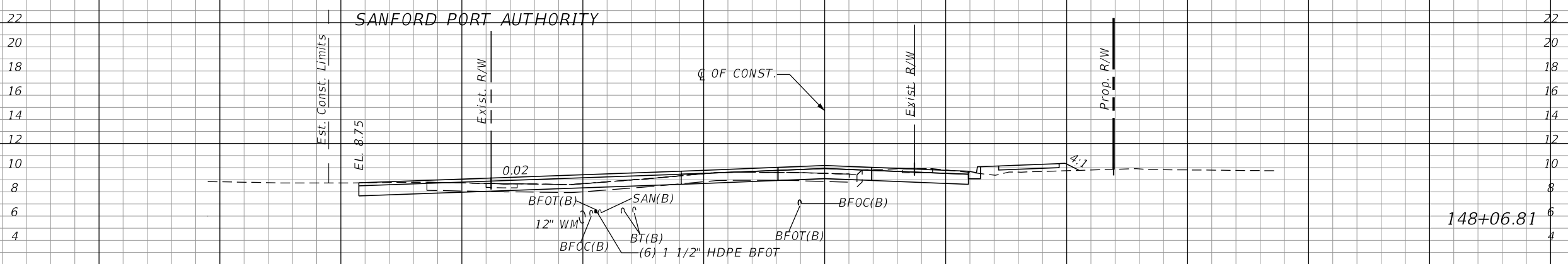
Regular		Exc.		Embankment	
A	V	A	V	A	V



76.06

9.91

149+00.00



148+06.81

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

140 160

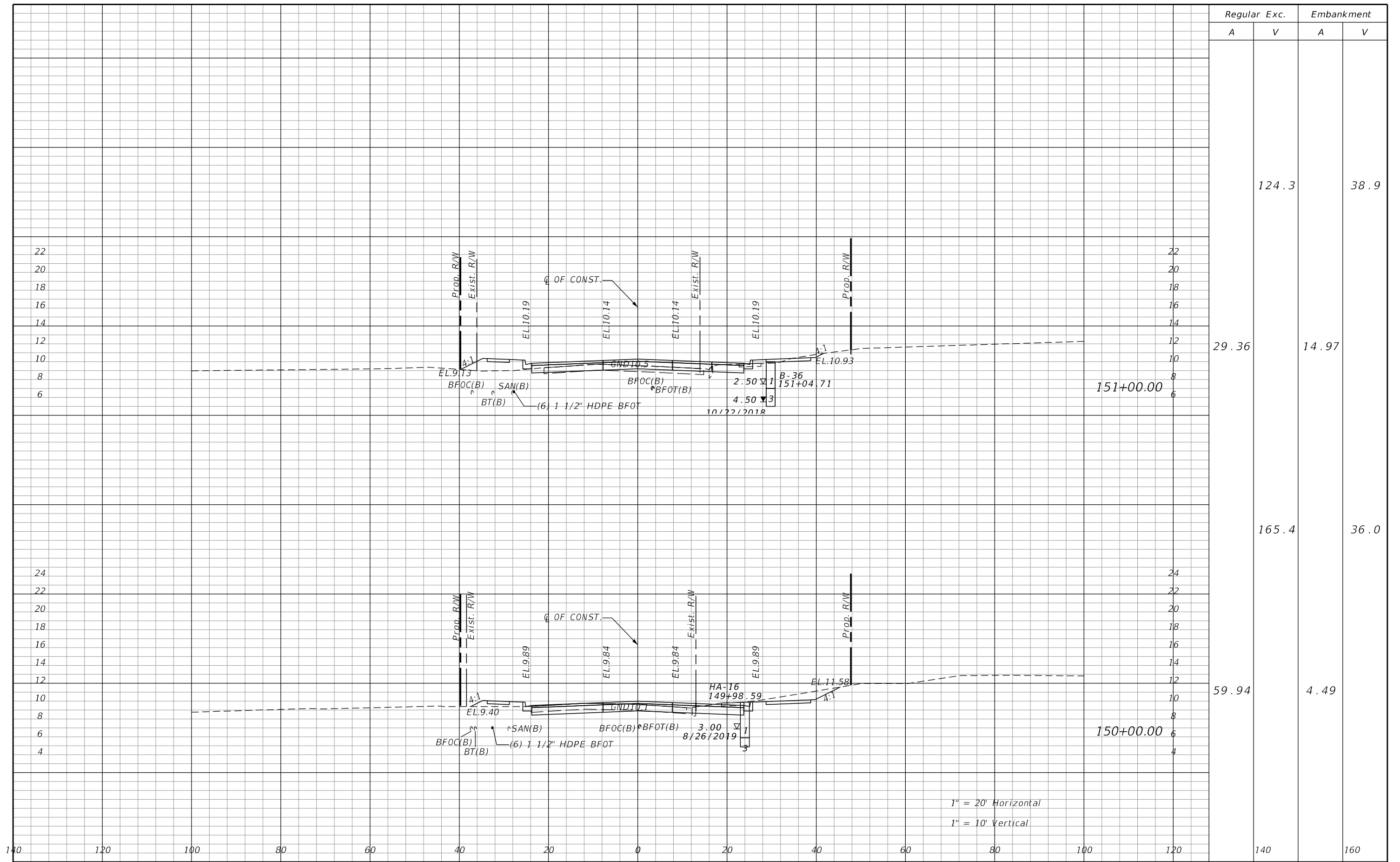
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
254



Regular		Exc.		Embankment	
A	V	A	V	A	V
	124.3		38.9		
29.36		14.97			
	165.4		36.0		
59.94		4.49			

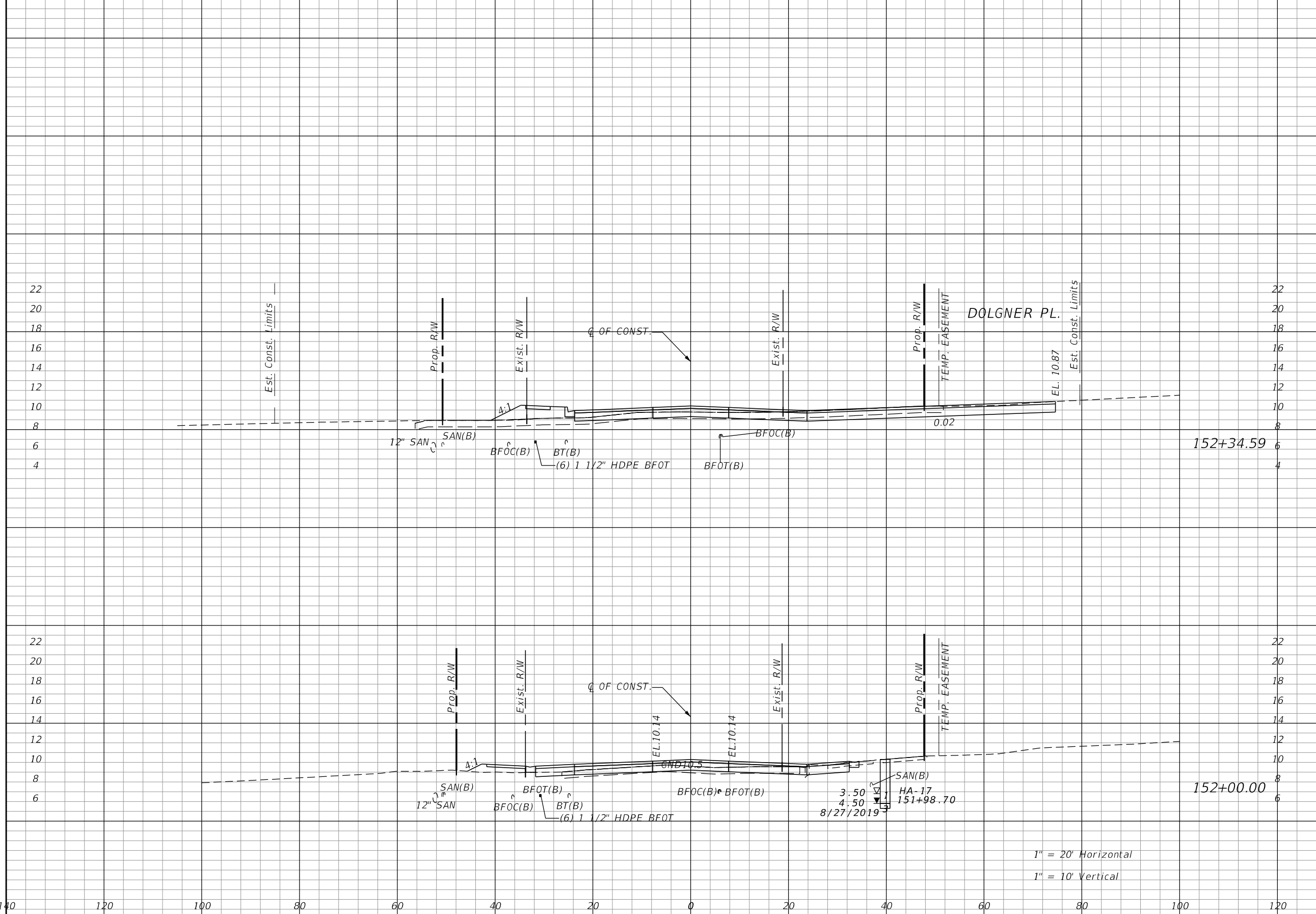
1" = 20' Horizontal  
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

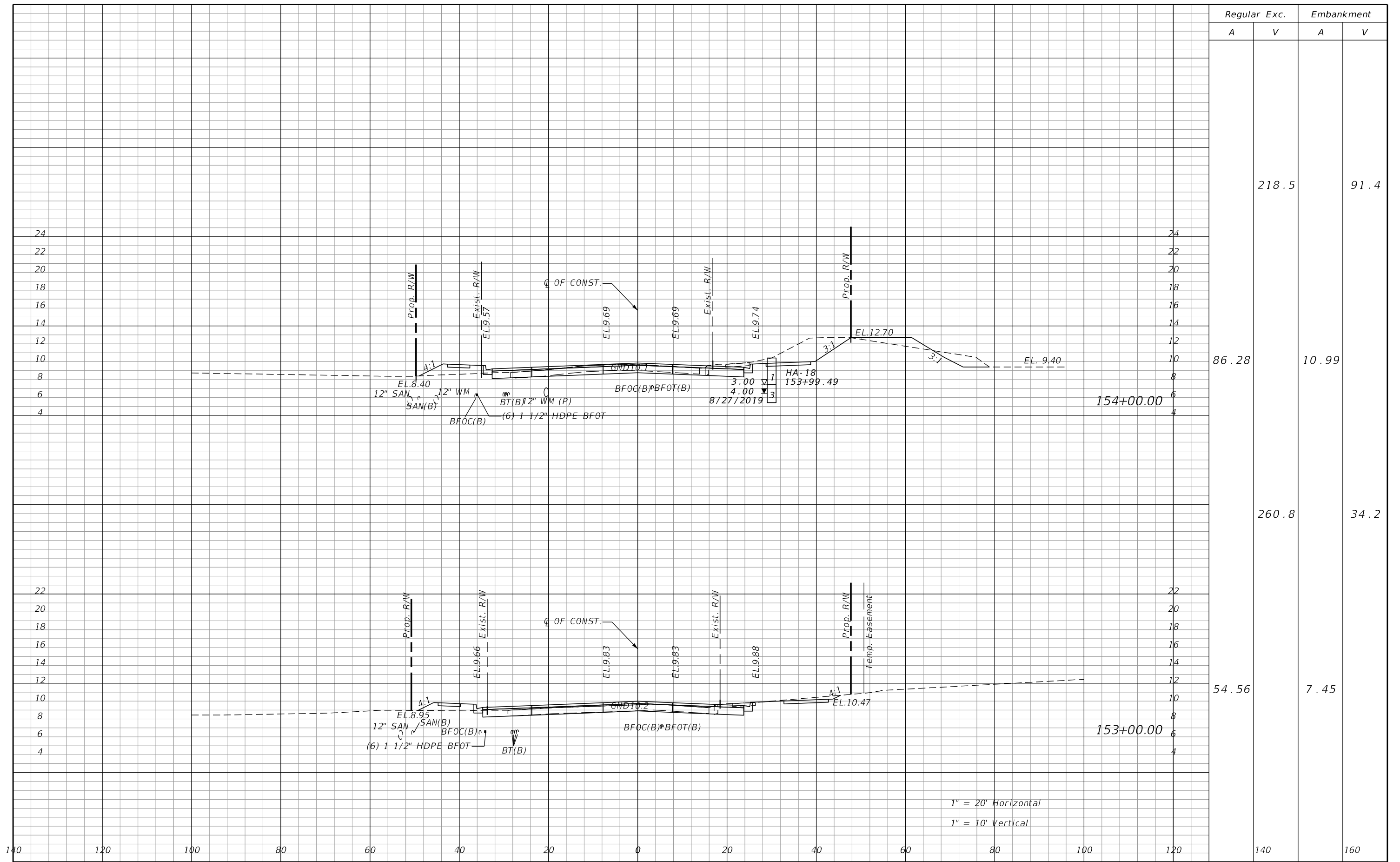
ROADWAY CROSS-SECTIONS		SHEET NO.
		255



22	20	18	16	14	12	10	8	6	4
22	20	18	16	14	12	10	8	6	4
								37.75	6.05
								152+34.59	152+00.00
								140	160

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

REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917		SEMINOLE COUNTY PUBLIC WORKS		<b>ROADWAY CROSS-SECTIONS</b>	SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY			SEMINOLE COUNTY CIP
	PRELIMINARY NOT FOR CONSTRUCTION					CR 431	SEMINOLE			01785303
								256		



Regular		Exc.		Embankment	
A	V	A	V	A	V
			218.5		91.4
86.28		10.99			
		260.8			34.2
54.56		7.45			

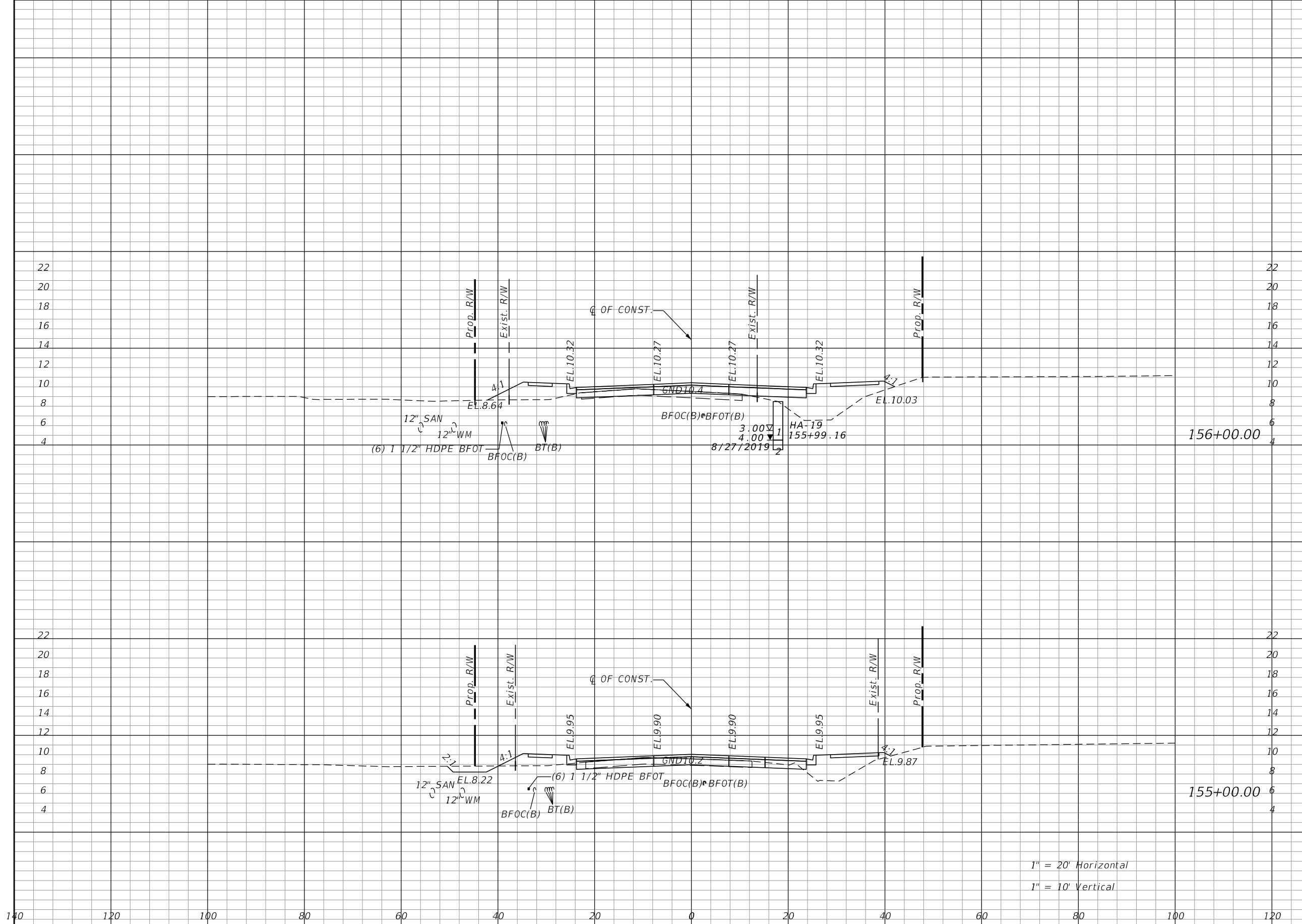
1" = 20' Horizontal  
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		257



Regular		Exc.		Embankment	
A	V	A	V	A	V
			29.0		282.3
14.15		68.85			
			84.9		198.6
31.7		38.37			

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

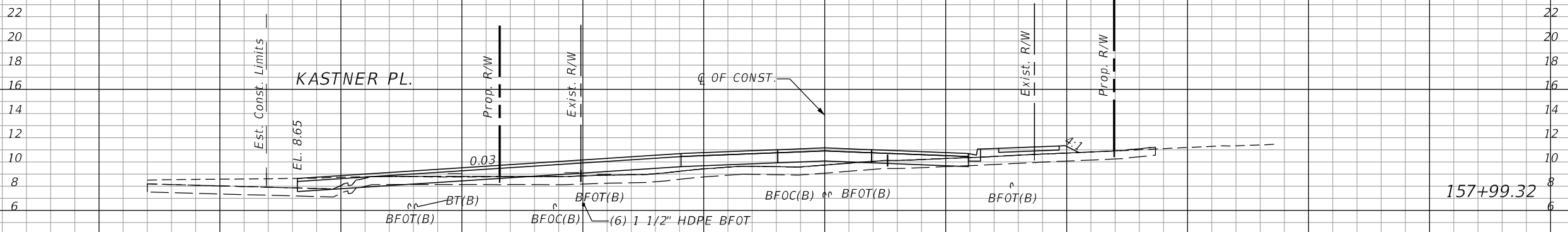
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

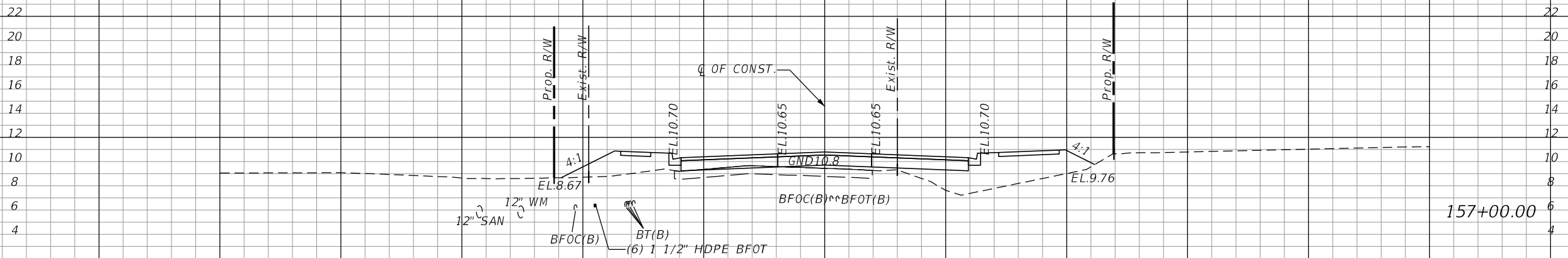
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		258

Regular		Exc.		Embankment	
A	V	A	V	A	V



157+99.32



157+00.00

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

1.53	83.6
------	------

140 120 100 80 60 40 20 0 20 40 60 80 100 120

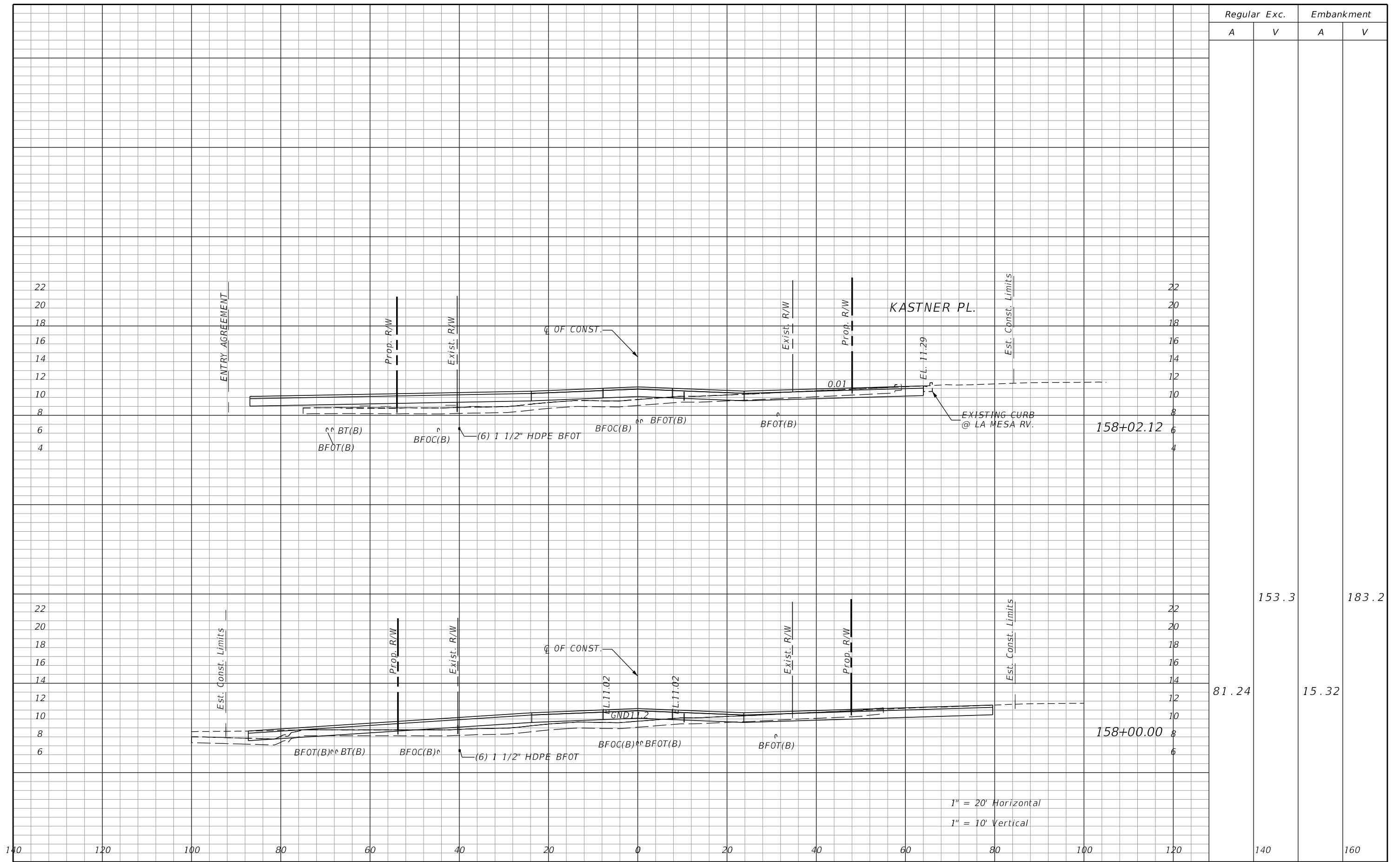
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.
259



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

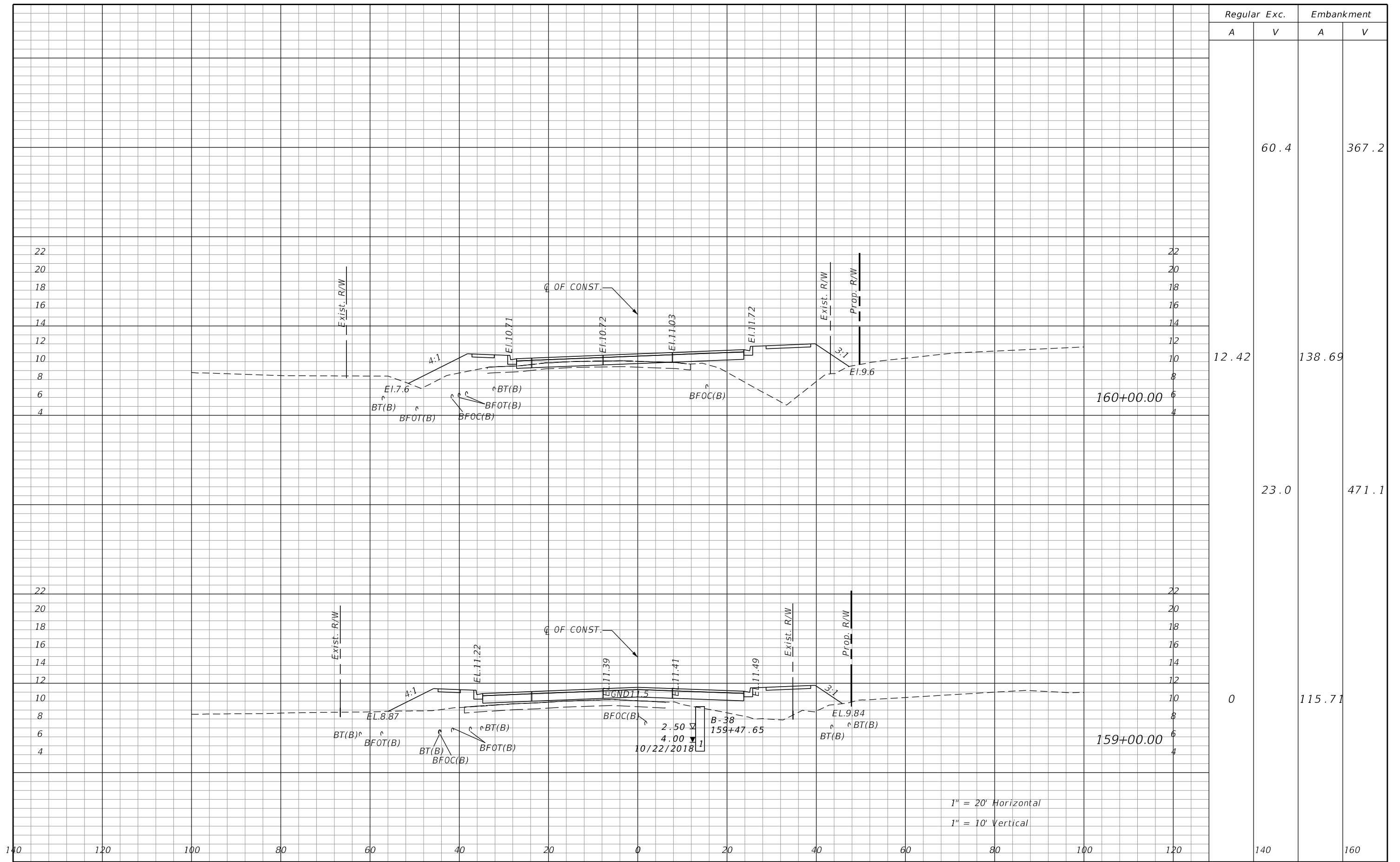
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		260





Regular		Exc.		Embankment	
A	V	A	V	A	V
	60.4			367.2	
12.42			138.69		
	23.0			471.1	
0			115.71		

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

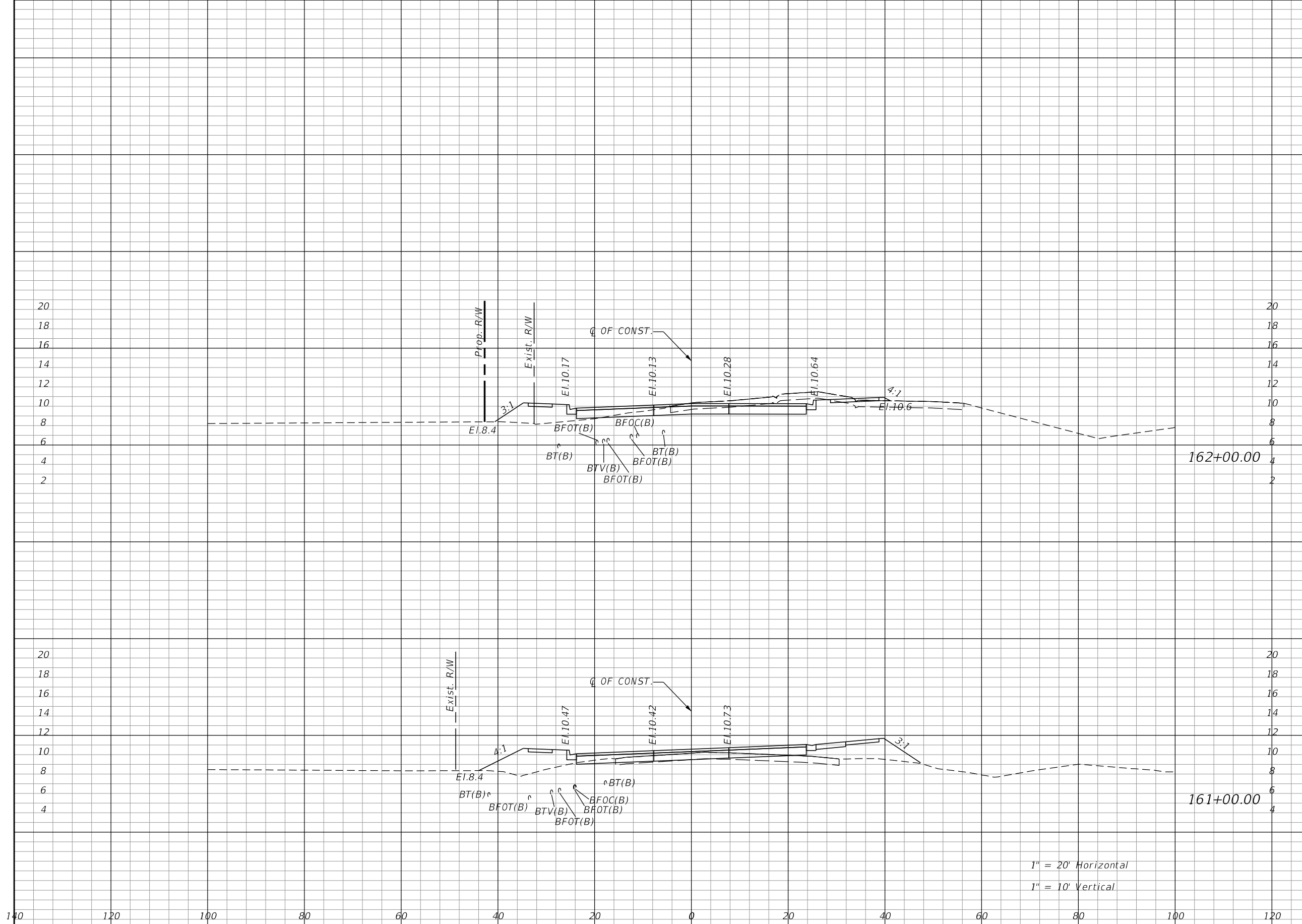
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
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615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

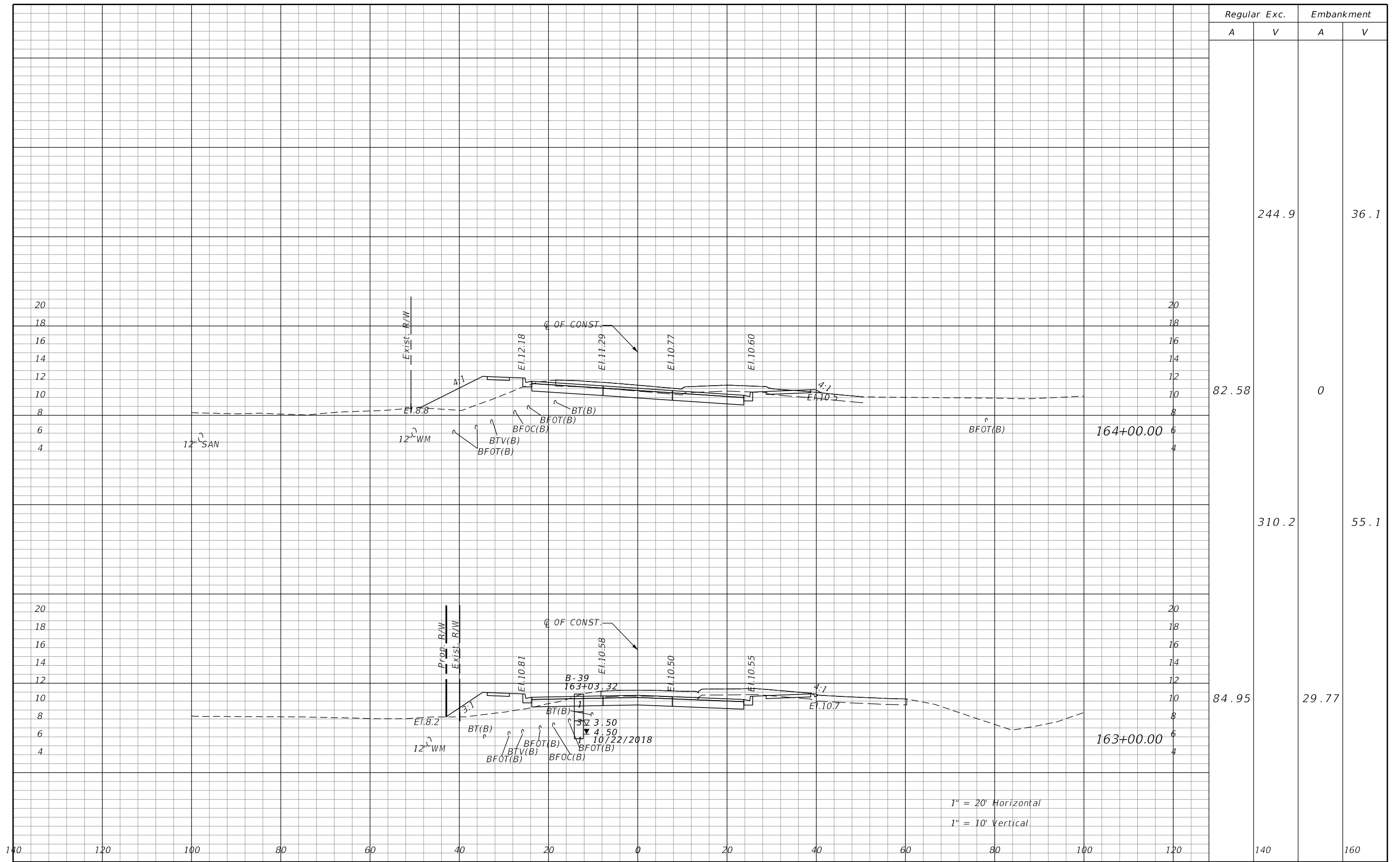
ROADWAY CROSS-SECTIONS		SHEET NO.
		261

Regular		Exc.		Embankment	
A	V	A	V	A	V
			265.9		100.9
58.63		24.73			
	146.0			156.2	
20.21		59.61			



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

DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS ROAD NO. COUNTY SEMINOLE COUNTY CIP CR 431 SEMINOLE 01785303			SHEET NO. 262	
PRELIMINARY NOT FOR CONSTRUCTION													ROADWAY CROSS-SECTIONS				



Regular		Exc.		Embankment	
A	V	A	V	A	V
			244.9		36.1
82.58			0		
			310.2		55.1
84.95			29.77		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

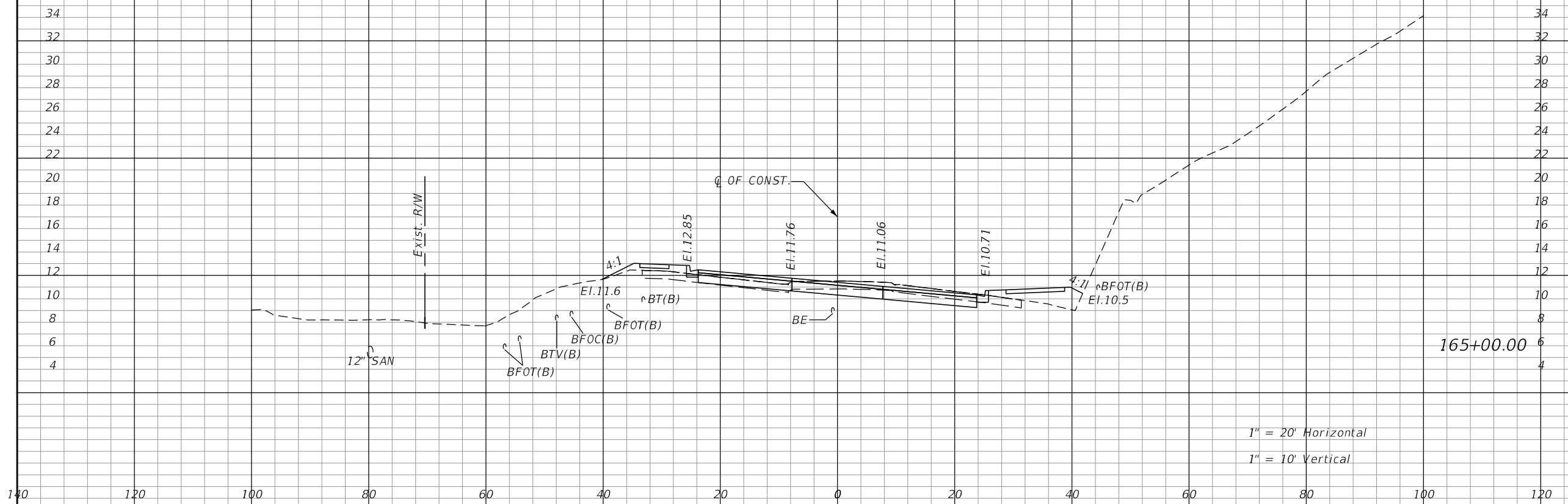
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS		SHEET NO.
		263

Regular		Exc.		Embankment	
A	V	A	V	A	V

		205.8		109.8	
--	--	-------	--	-------	--

49.65	19.47
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1" = 20' Horizontal  
1" = 10' Vertical

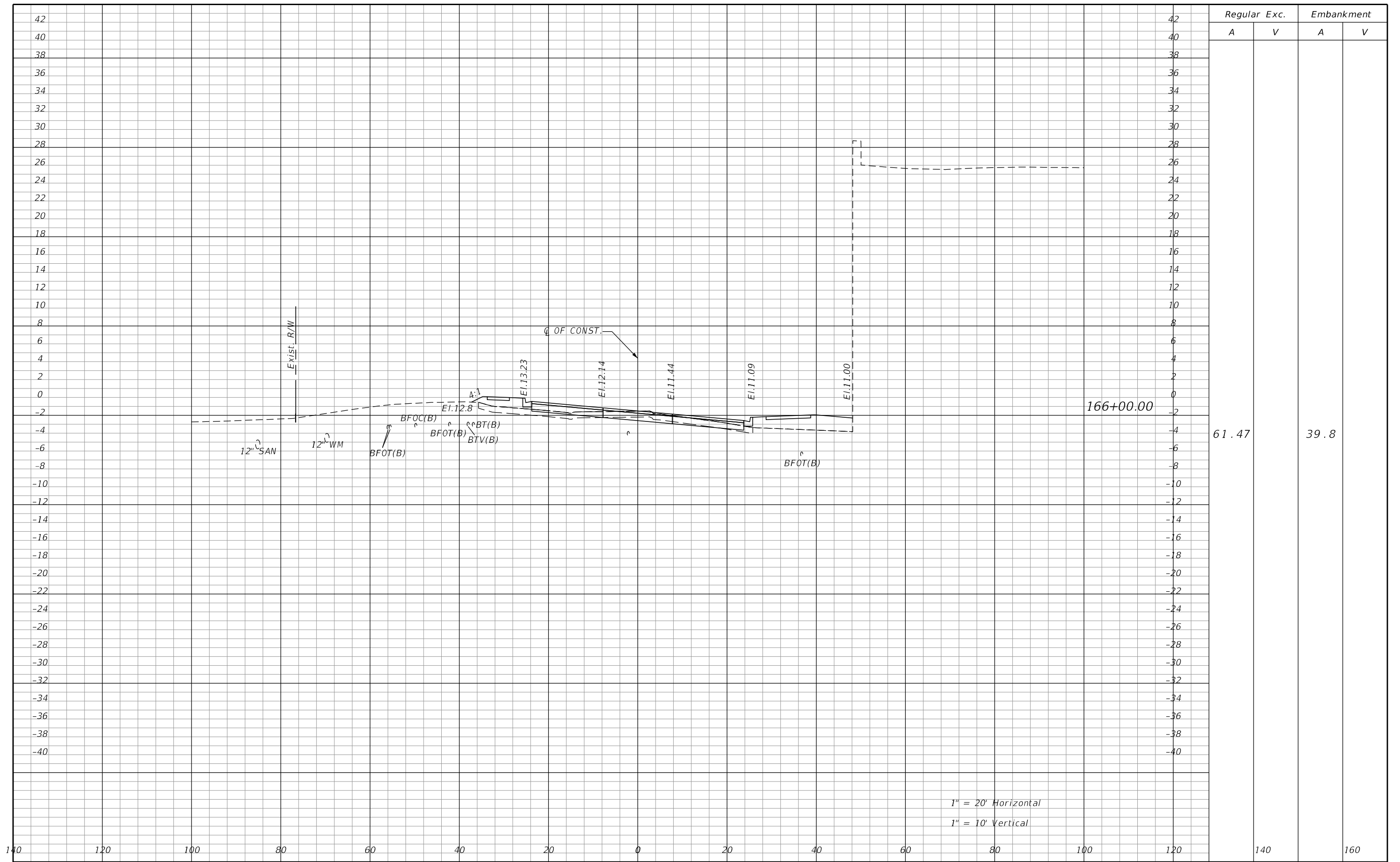
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.  
264



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

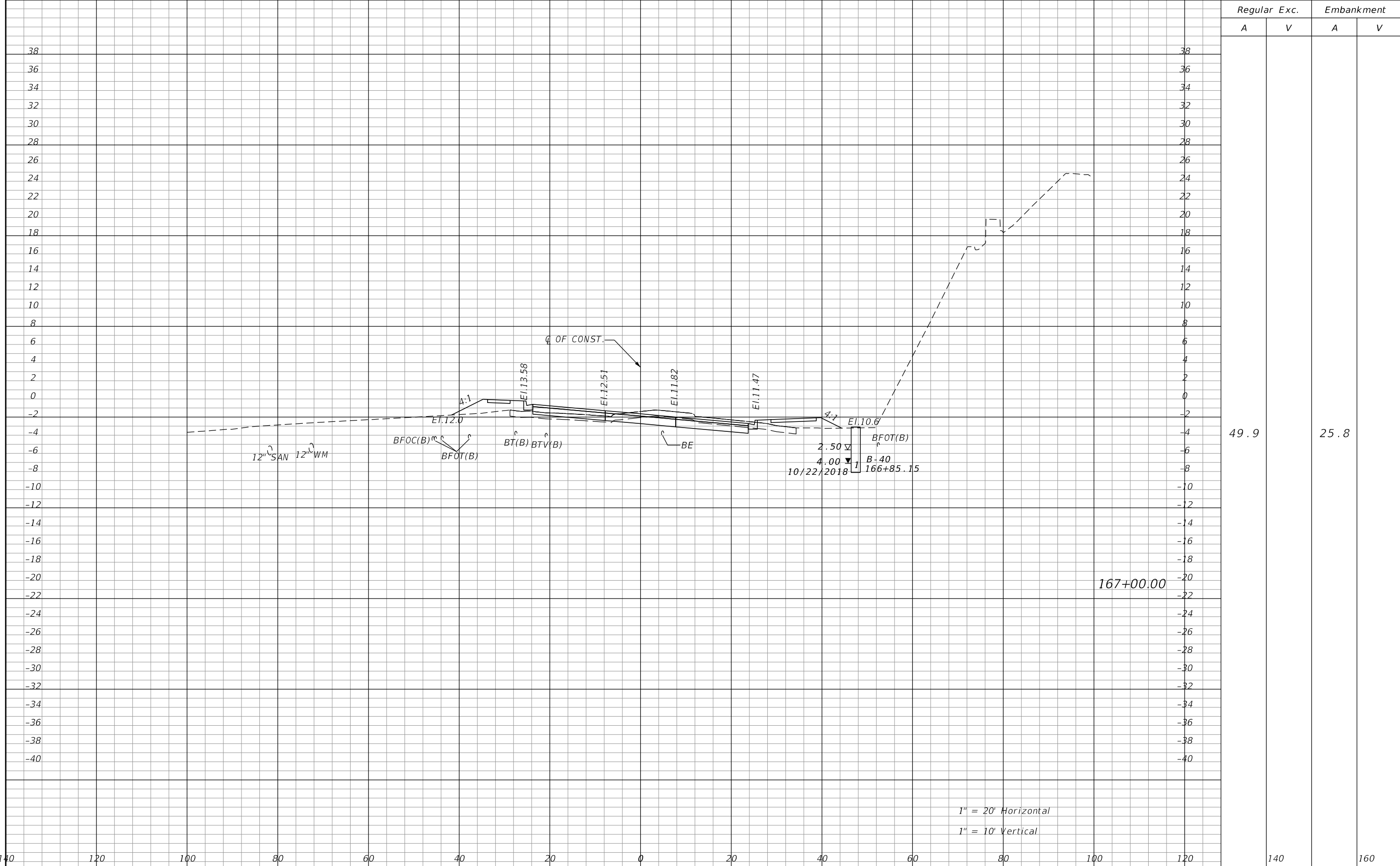
Regular		Exc.		Embankment	
A	V	A	V	A	V
61.47				39.8	

REVISIONS	
DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION	

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<b>ROADWAY CROSS-SECTIONS</b>
SHEET NO. 265

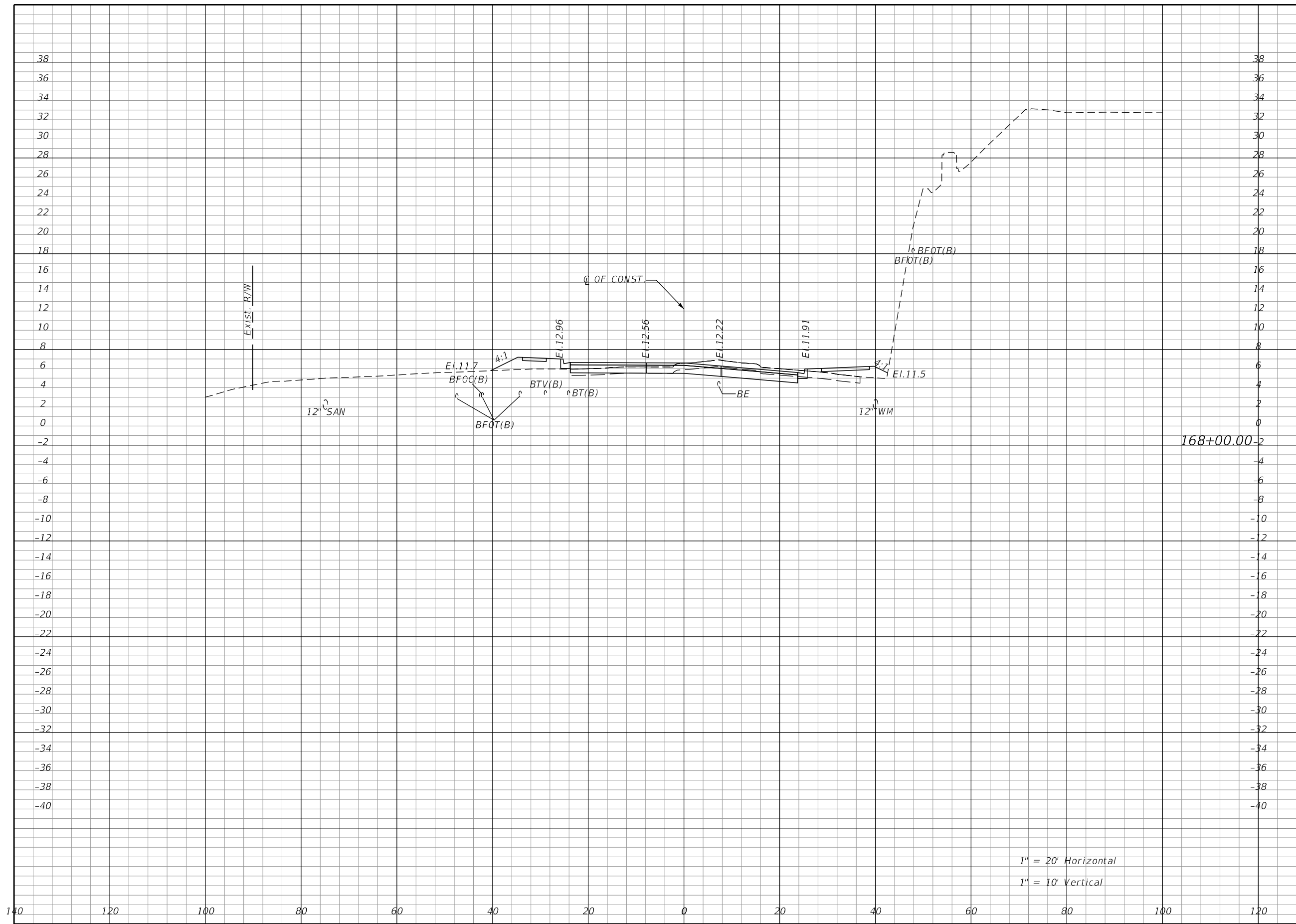


Regular		Exc.		Embankment	
A	V	A	V	A	V
49.9		25.8			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>		

JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			<b>SEMINOLE COUNTY PUBLIC WORKS</b>		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP			
CR 431	SEMINOLE	01785303			

<b>ROADWAY CROSS-SECTIONS</b>		SHEET NO. <b>266</b>
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Regular		Exc.		Embankment	
A	V	A	V	A	V
50.21				21.66	
		185.4			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

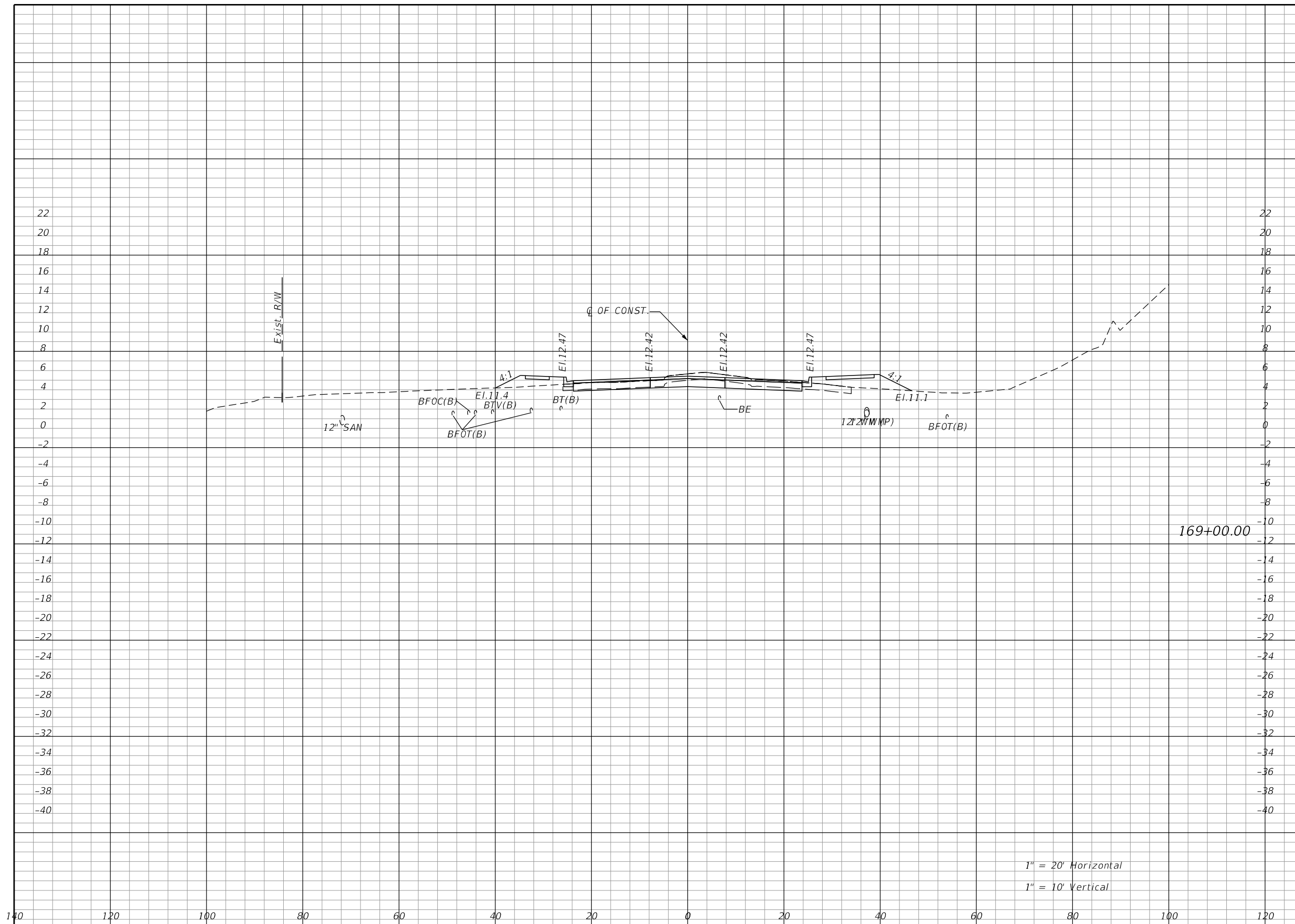
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

87 9  
SHEET NO.

## ROADWAY CROSS-SECTIONS

267

Regular Exc.		Embankment	
A	V	A	V



50.05

27.21

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

140 160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

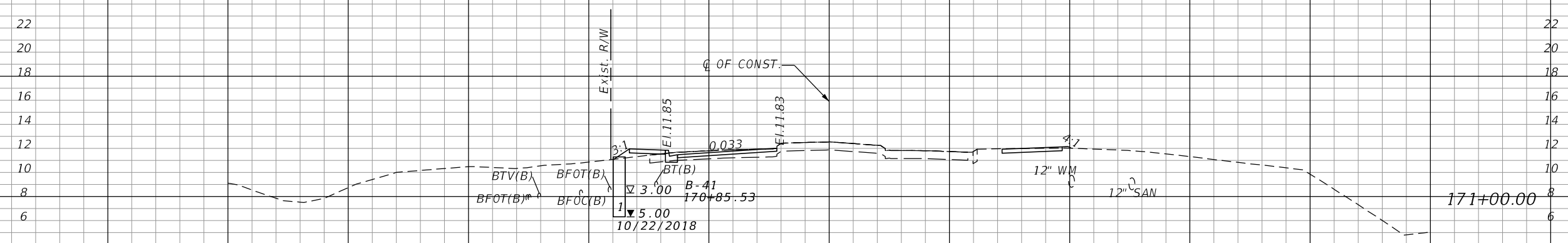
## ROADWAY CROSS-SECTIONS

SHEET NO.  
268

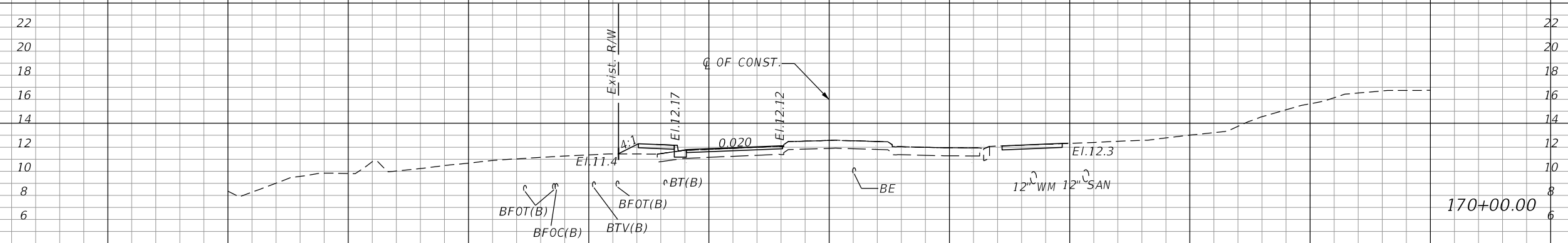


Regular		Exc.		Embankment	
A	V	A	V	A	V

			8.6		8.4
--	--	--	-----	--	-----



2.97		2.44			
------	--	------	--	--	--



3.23		3.92			
------	--	------	--	--	--

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

140 160

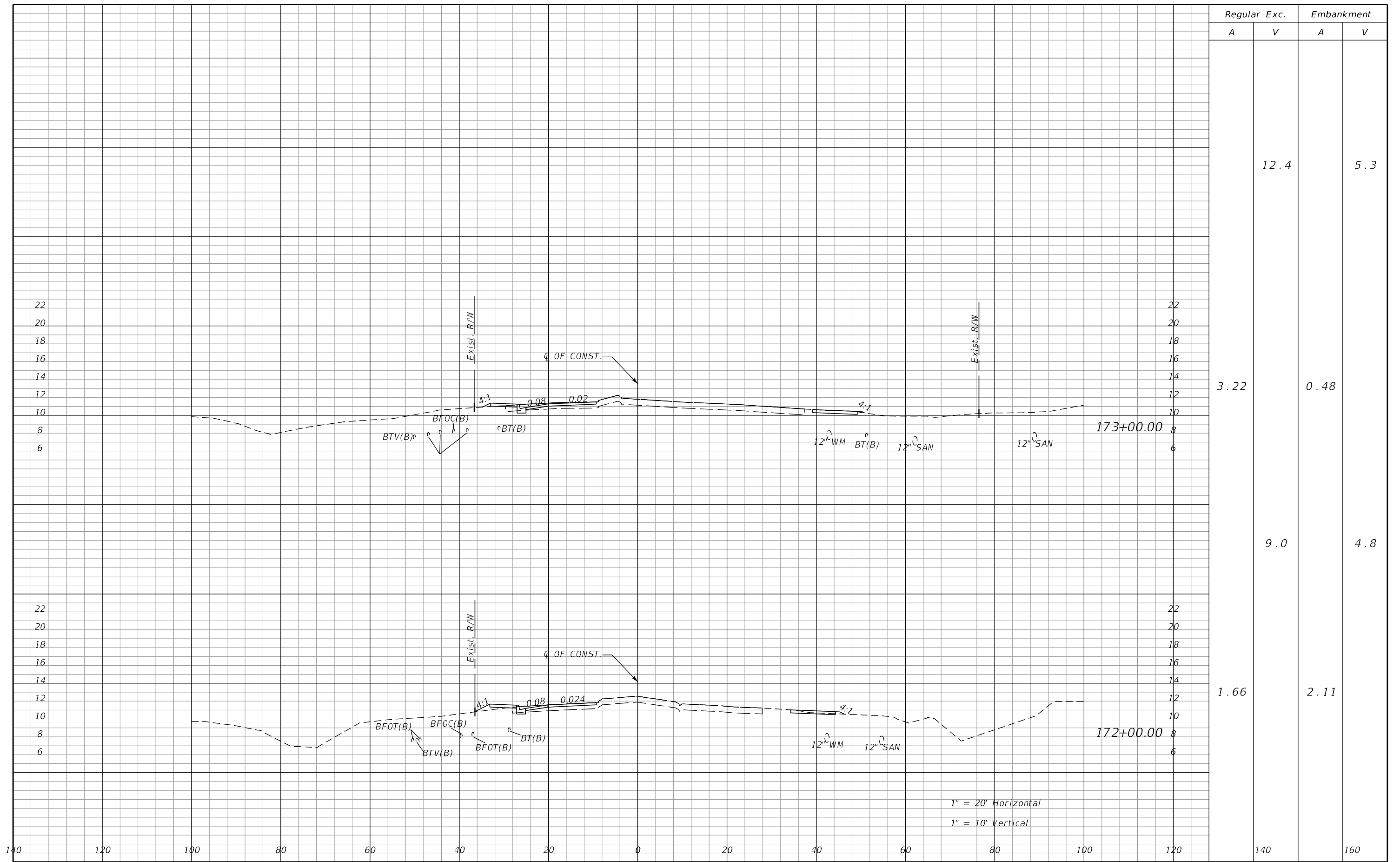
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS**

SHEET NO.  
269



Regular		Exc.		Embankment	
A	V	A	V	A	V
			12.4		5.3
3.22			0.48		
	9.0				4.8
1.66			2.11		

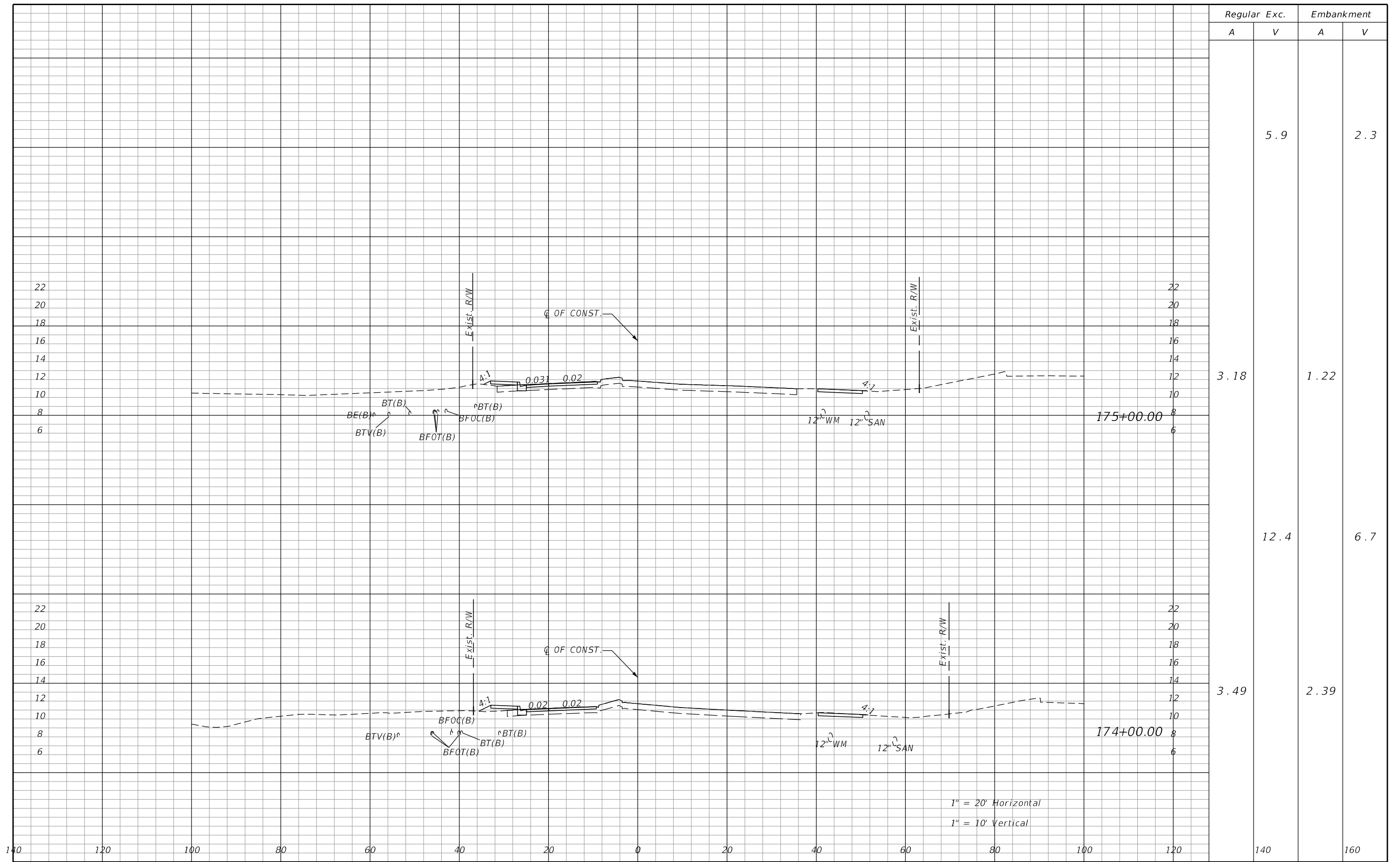
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO.
270



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

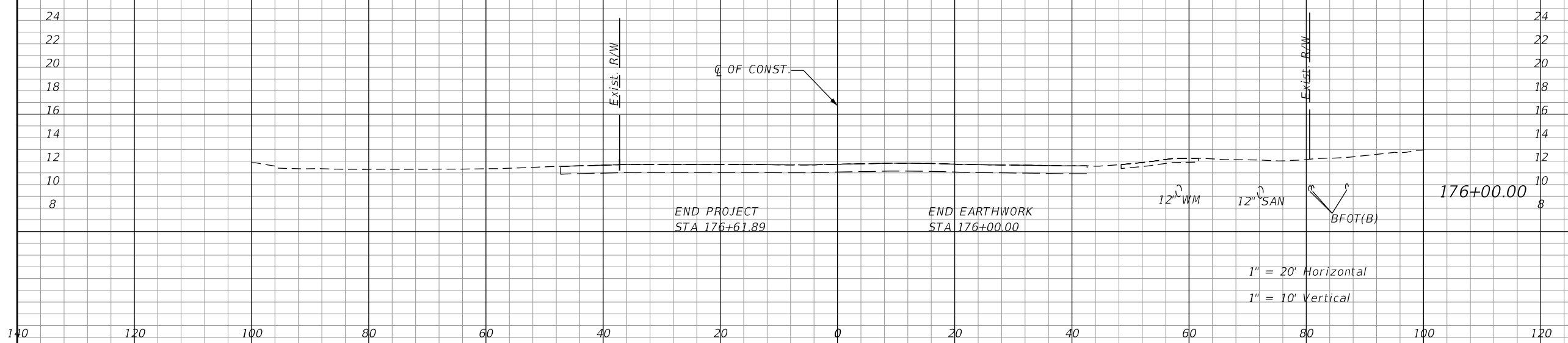
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

## ROADWAY CROSS-SECTIONS

SHEET NO. 271
------------------

Regular Exc.		Embankment	
A	V	A	V



0	0	0	0
140	140	160	160

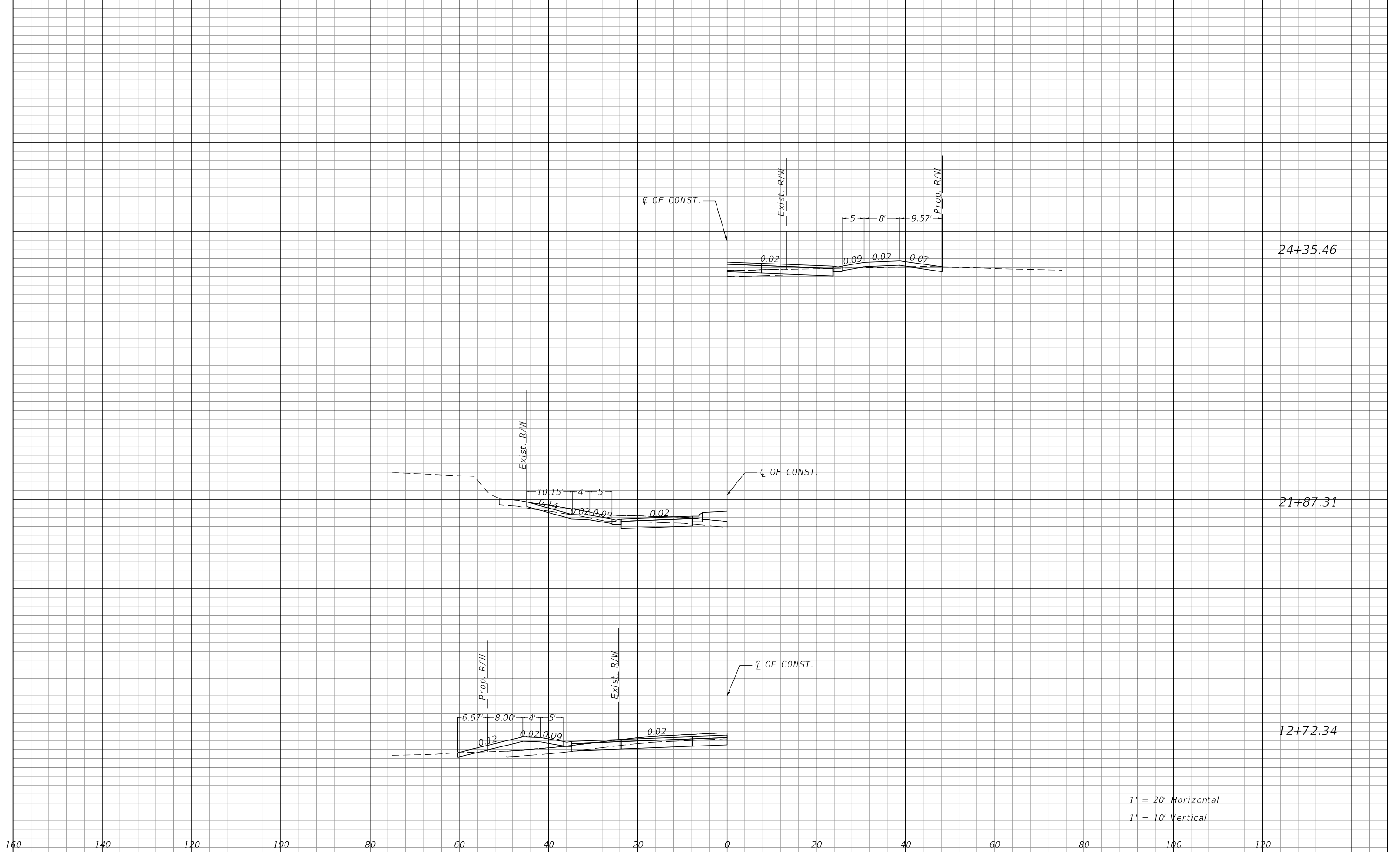
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

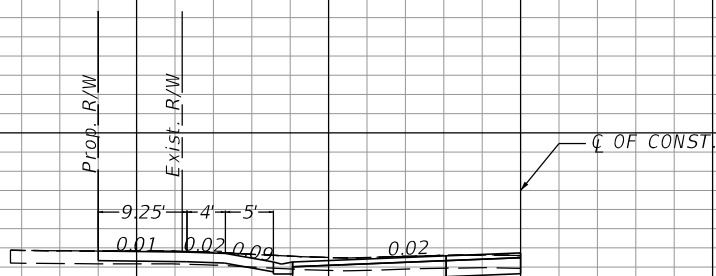
**ROADWAY CROSS-SECTIONS**

SHEET NO.  
272

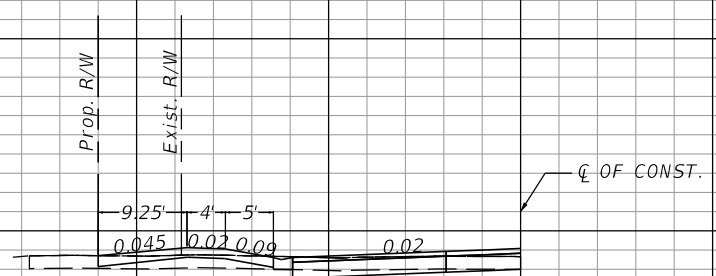


1" = 20' Horizontal  
 1" = 10' Vertical

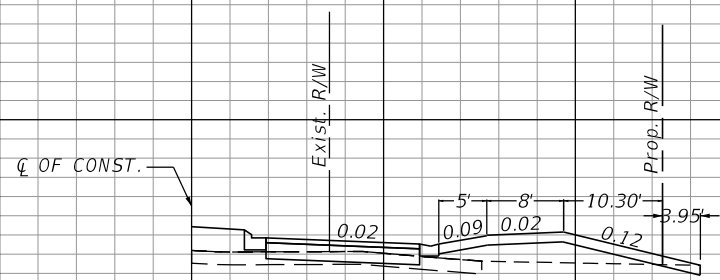
DATE		DESCRIPTION		REVISIONS		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			ROADWAY CROSS-SECTIONS (DRIVEWAYS)	SHEET NO. 273
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303				
PRELIMINARY NOT FOR CONSTRUCTION													



28+94.01



28+05.17

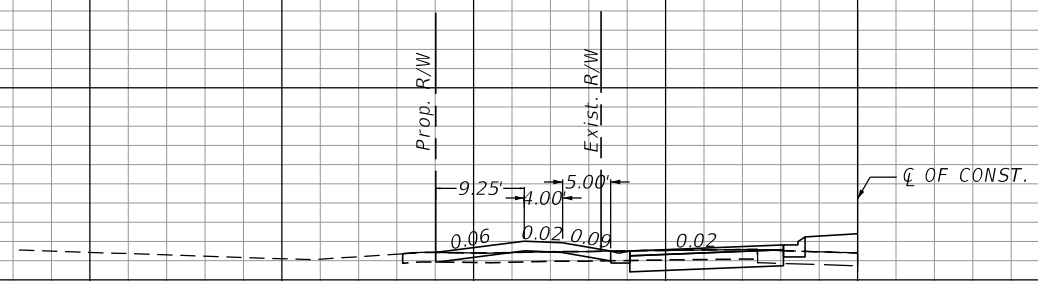


24+87.85

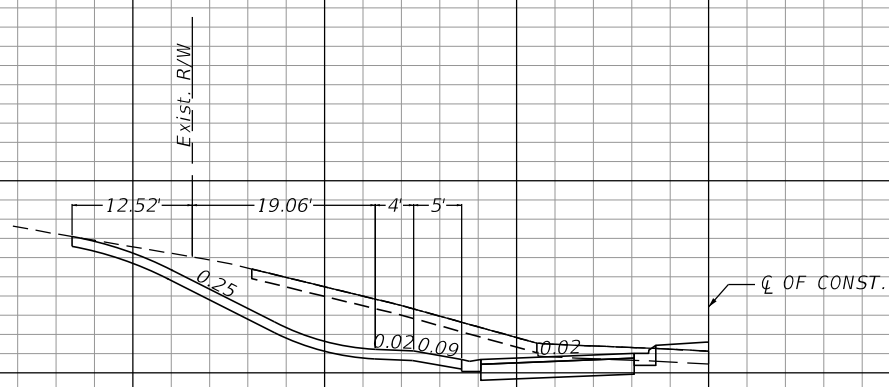
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1" = 10' Vertical

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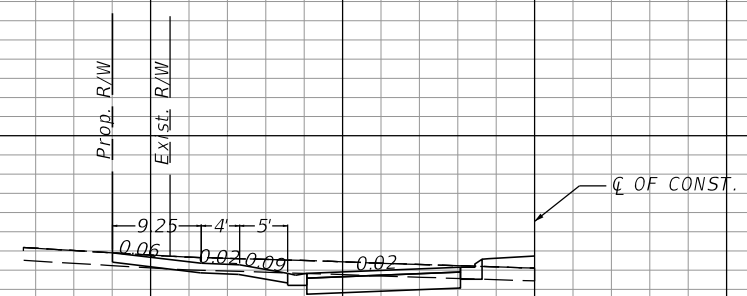
DATE		DESCRIPTION		REVISIONS		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			ROADWAY CROSS-SECTIONS (DRIVEWAYS)	SHEET NO.
DATE		DESCRIPTION		REVISIONS		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP					274
		PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303					



35+46.00



31+98.81



30+55.99

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

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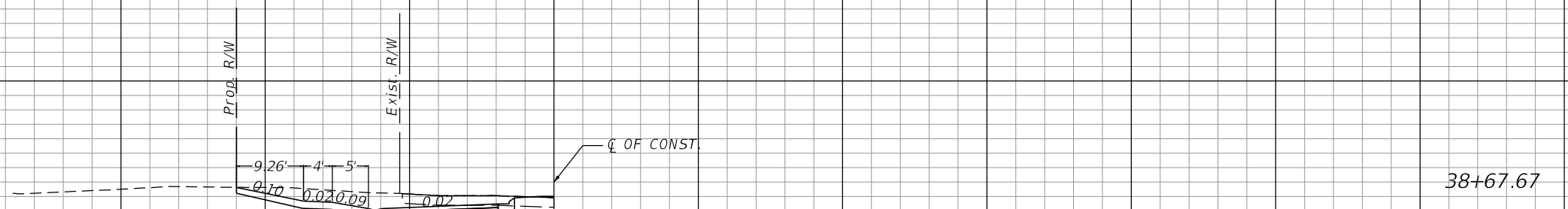
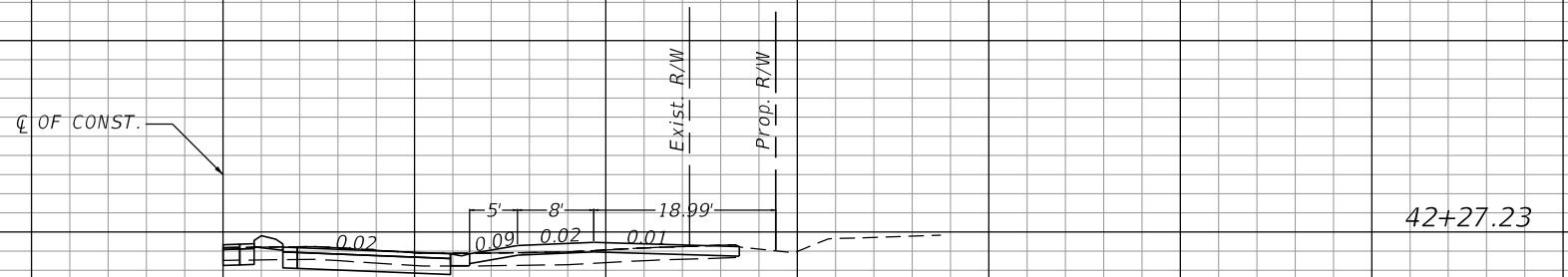
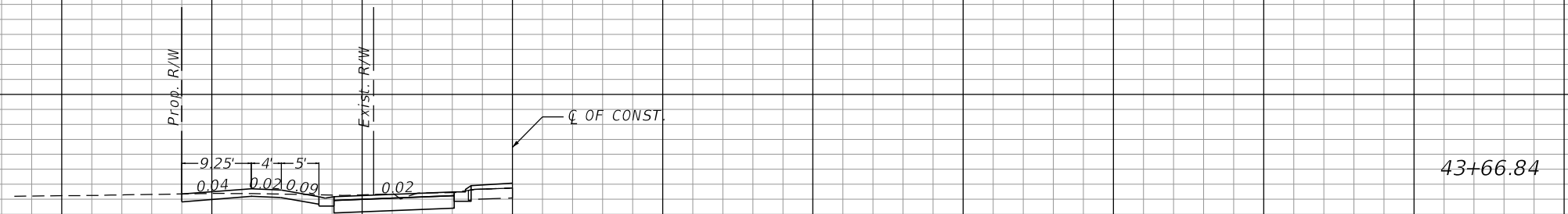
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS  
(DRIVEWAYS)**

SHEET NO.  
275



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

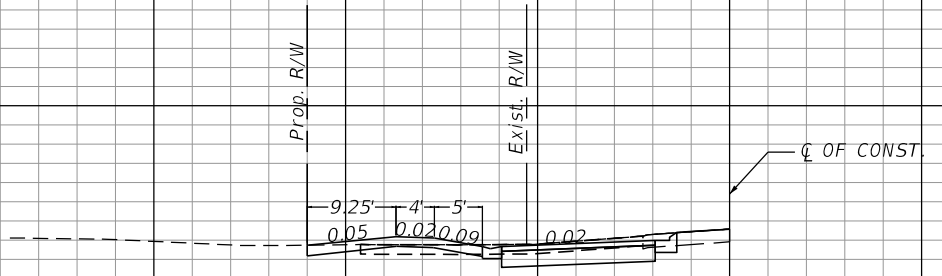
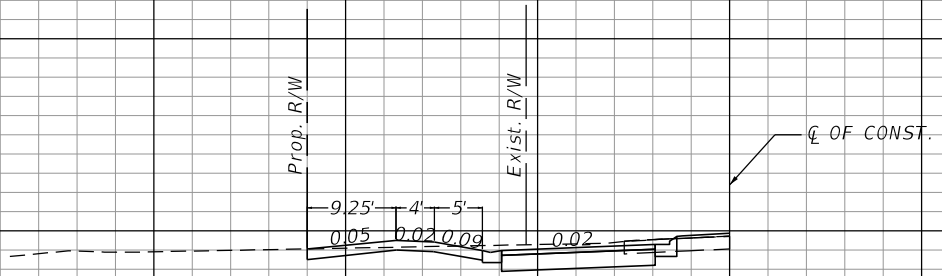
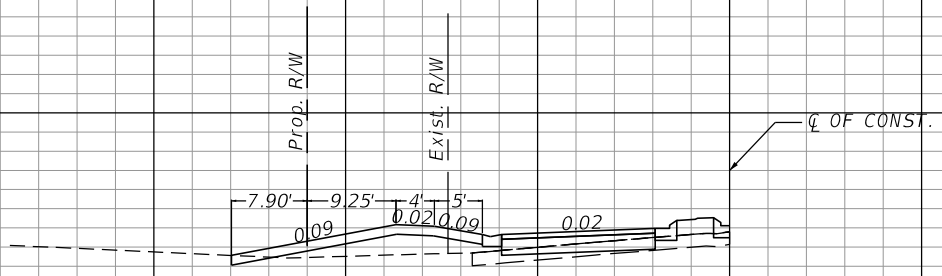
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS  
(DRIVEWAYS)**

SHEET NO.  
276





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

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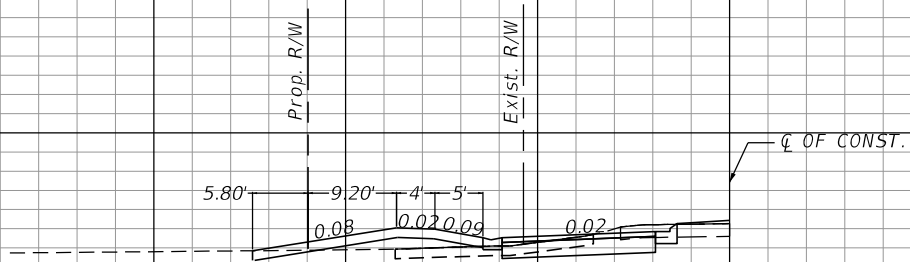
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

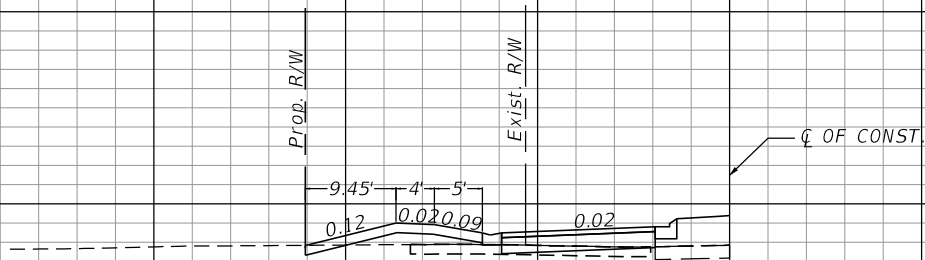
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS  
(DRIVEWAYS)**

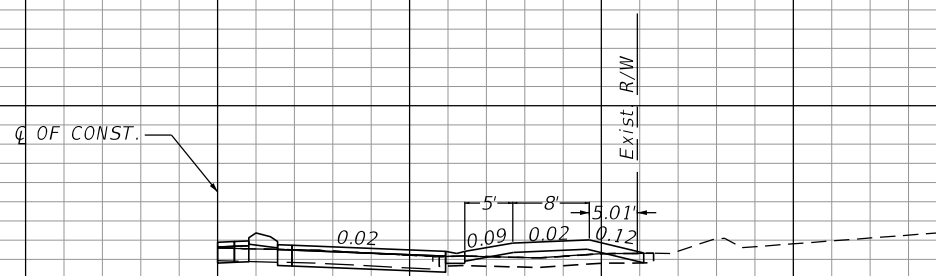
SHEET NO.  
277



62+08.66



57+95.16



53+87.33

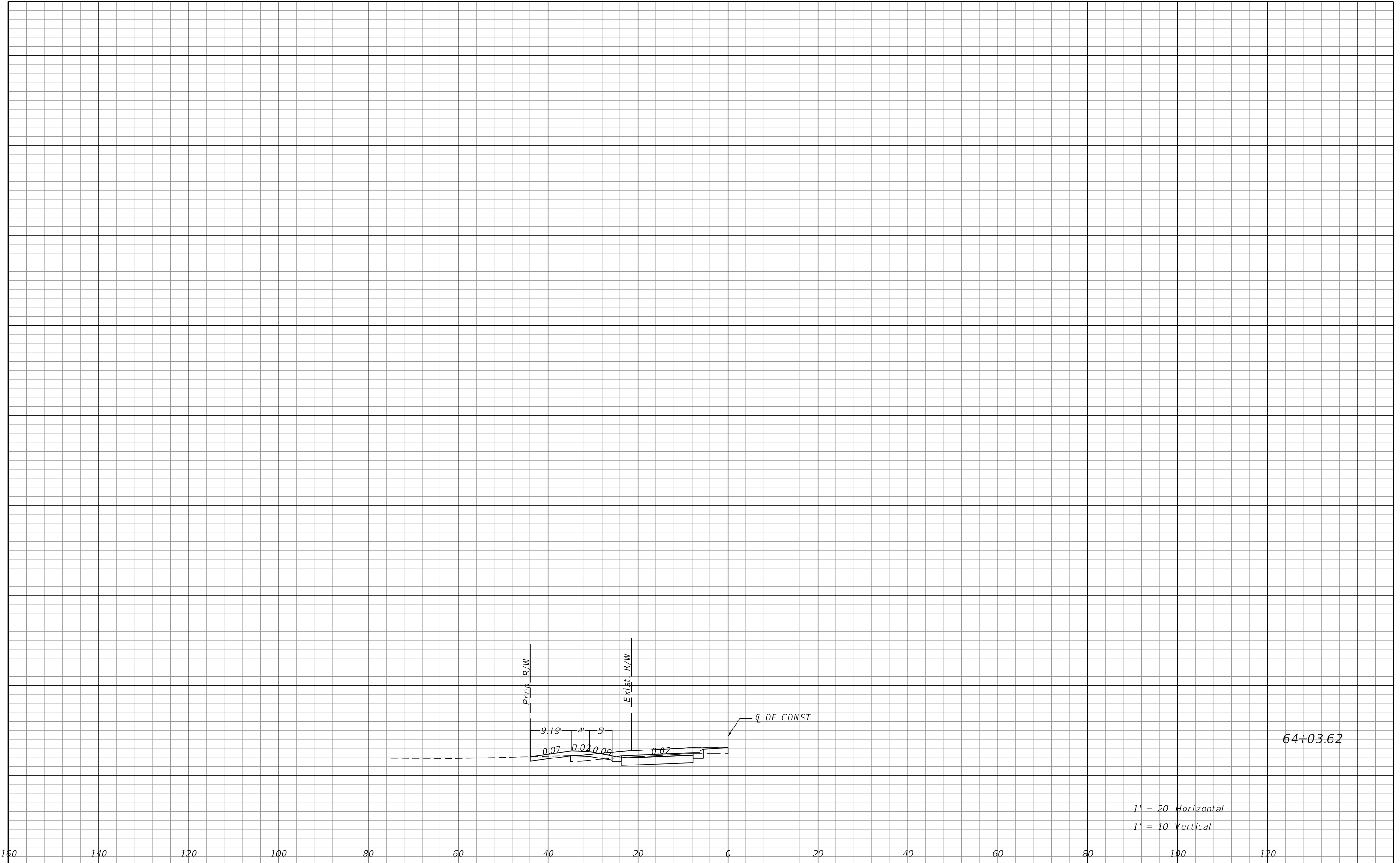
1" = 20' Horizontal  
1" = 10' Vertical

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS		DATE		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION		
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>				

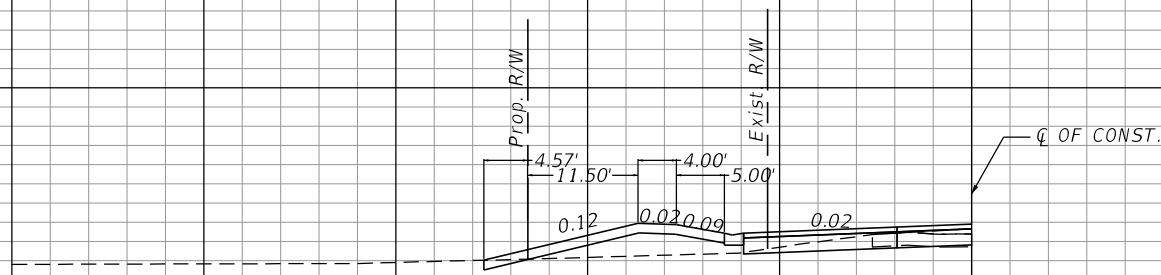
JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			<b>SEMINOLE COUNTY PUBLIC WORKS</b>		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP			
CR 431	SEMINOLE	01785303			

<b>ROADWAY CROSS-SECTIONS (DRIVEWAYS)</b>			SHEET NO. 278
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1" = 20' Horizontal  
 1" = 10' Vertical

DATE		DESCRIPTION		REVISIONS		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			ROADWAY CROSS-SECTIONS (DRIVEWAYS)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	279			
PRELIMINARY NOT FOR CONSTRUCTION													

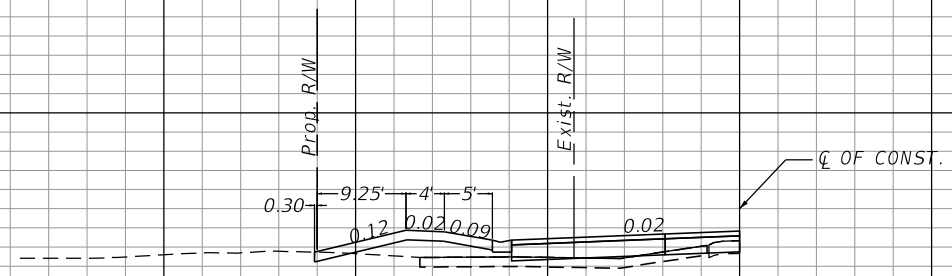


72+81.96

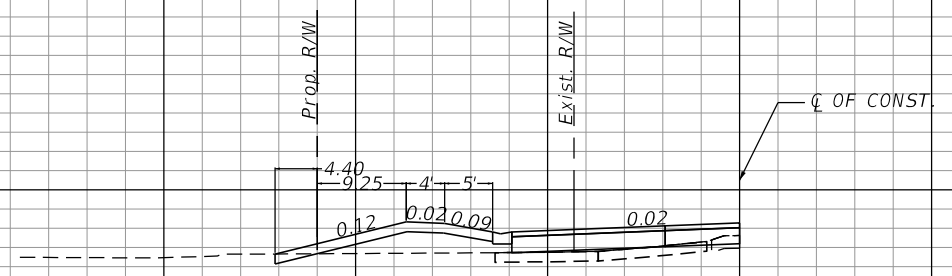
1" = 20' Horizontal  
1" = 10' Vertical

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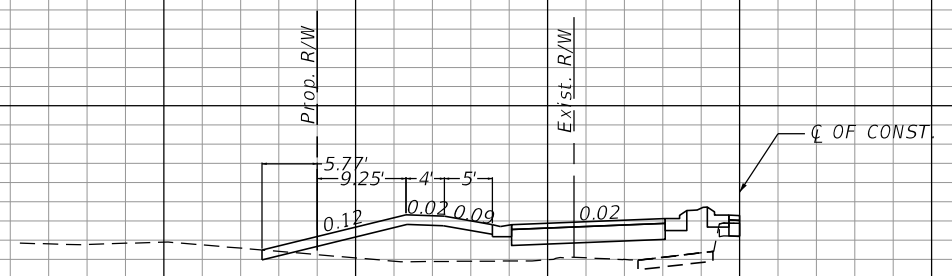
DATE		DESCRIPTION		REVISIONS		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			ROADWAY CROSS-SECTIONS (DRIVEWAYS)	SHEET NO. 280
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP				
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303						



89+37.16



88+74.17



85+86.92

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

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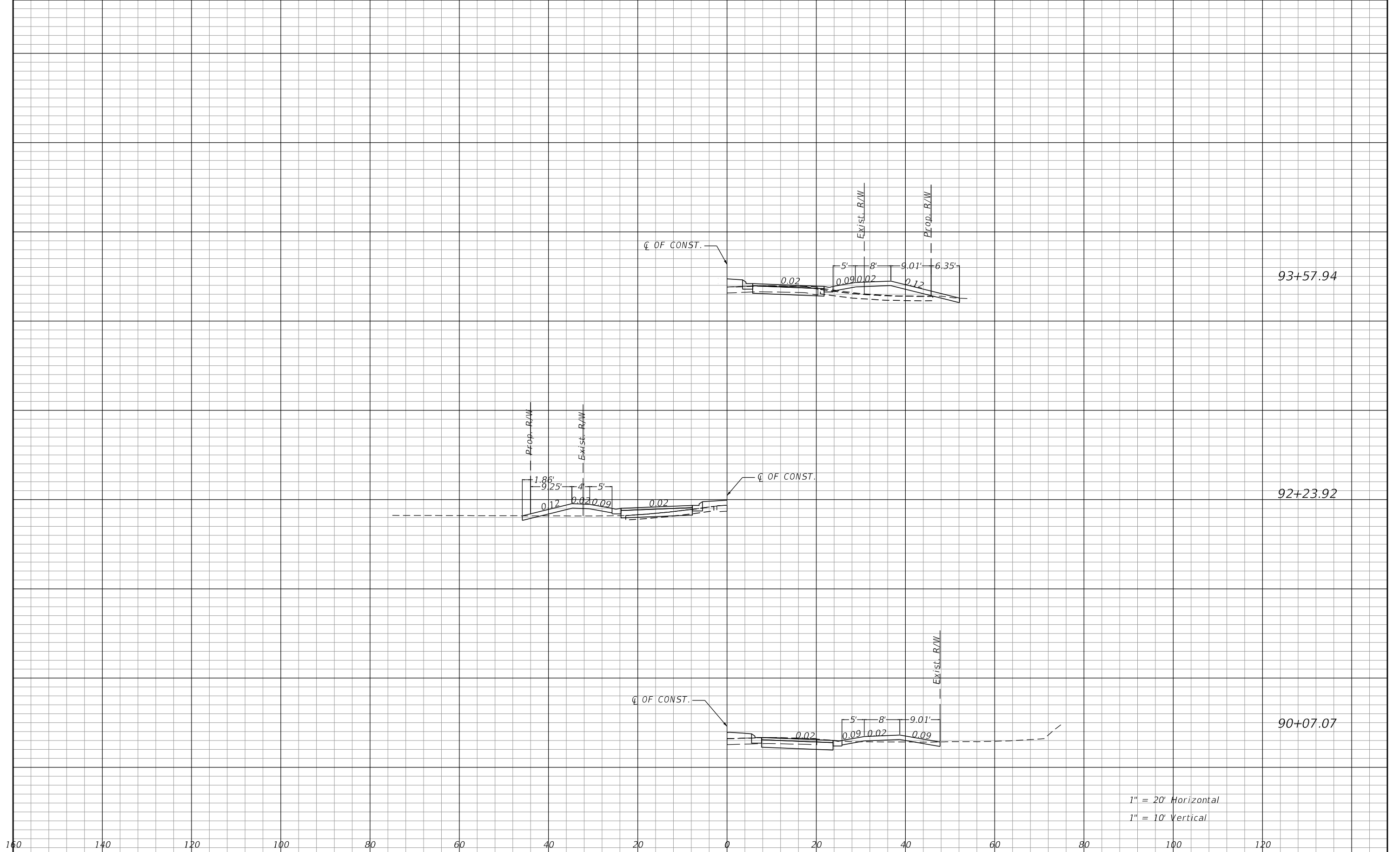
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS  
(DRIVEWAYS)**

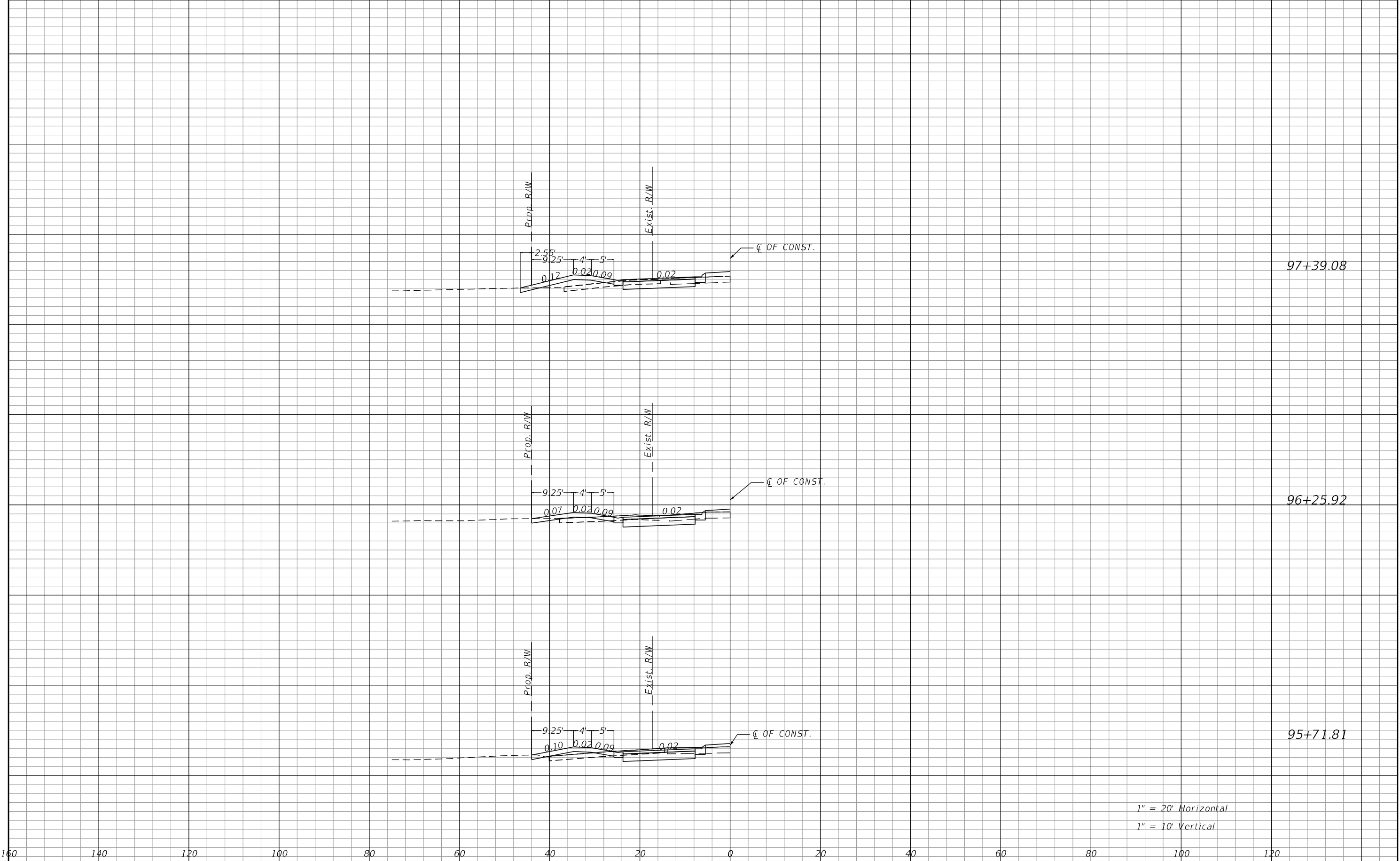
SHEET NO.  
281



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

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DATE		DESCRIPTION		REVISIONS		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			ROADWAY CROSS-SECTIONS (DRIVEWAYS)	SHEET NO. 282
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303				
PRELIMINARY NOT FOR CONSTRUCTION													



97+39.08

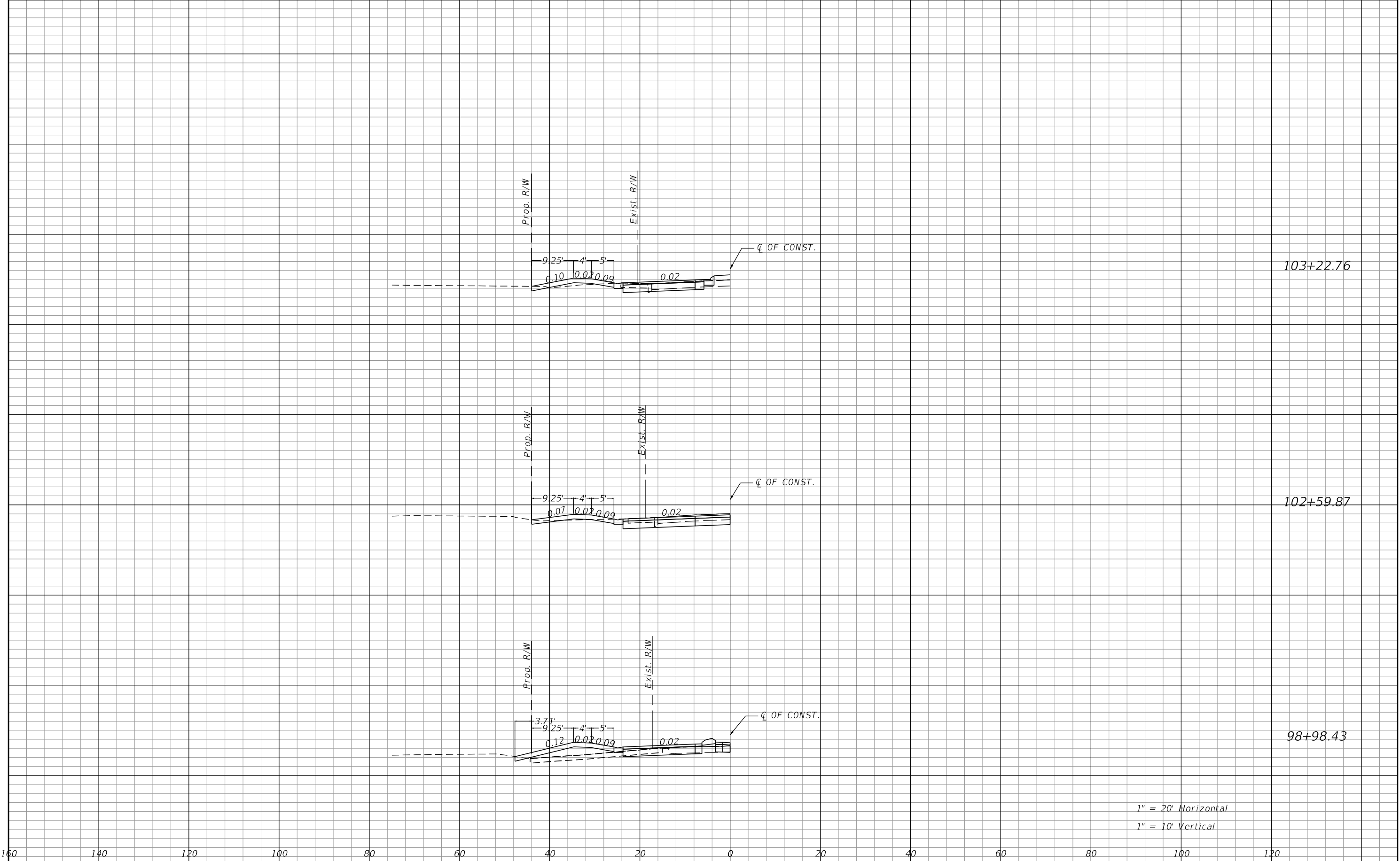
96+25.92

95+71.81

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

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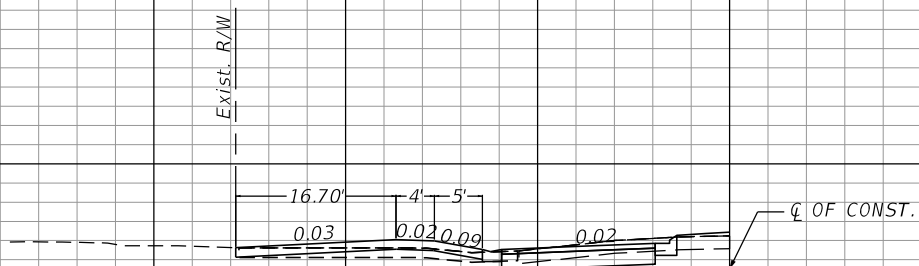
DATE		DESCRIPTION		REVISIONS		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			ROADWAY CROSS-SECTIONS (DRIVEWAYS)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	283			
PRELIMINARY NOT FOR CONSTRUCTION													



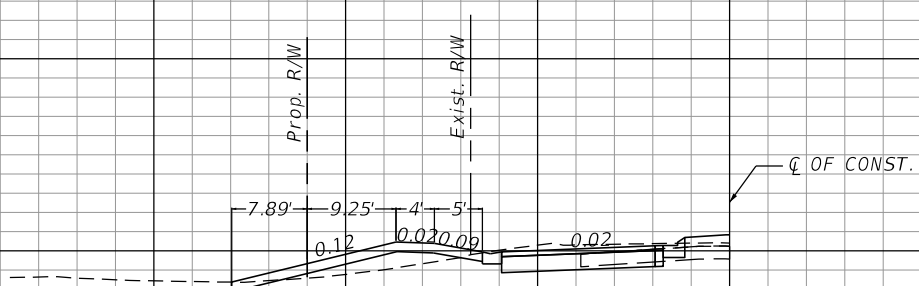
1" = 20' Horizontal  
 1" = 10' Vertical

DATE		DESCRIPTION		REVISIONS		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>ROADWAY CROSS-SECTIONS</b> <b>(DRIVEWAYS)</b>	SHEET NO. 284
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY		SEMINOLE COUNTY CIP				
	PRELIMINARY NOT FOR CONSTRUCTION						CR 431	SEMINOLE	01785303		

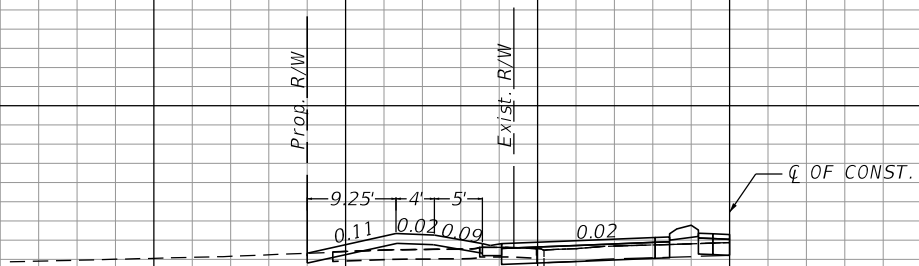




115+88.78



111+16.11



103+91.86

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

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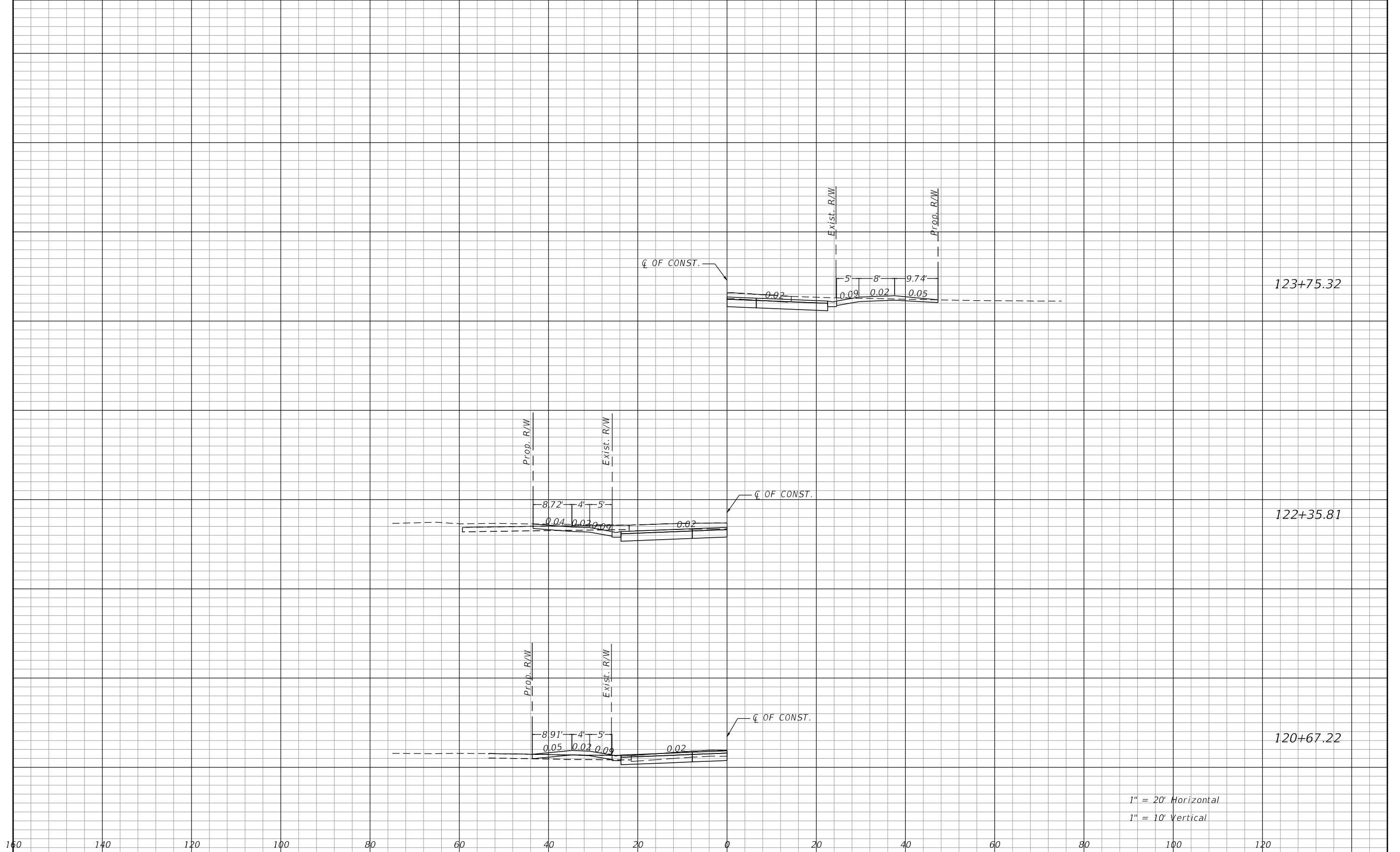
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS  
(DRIVEWAYS)**

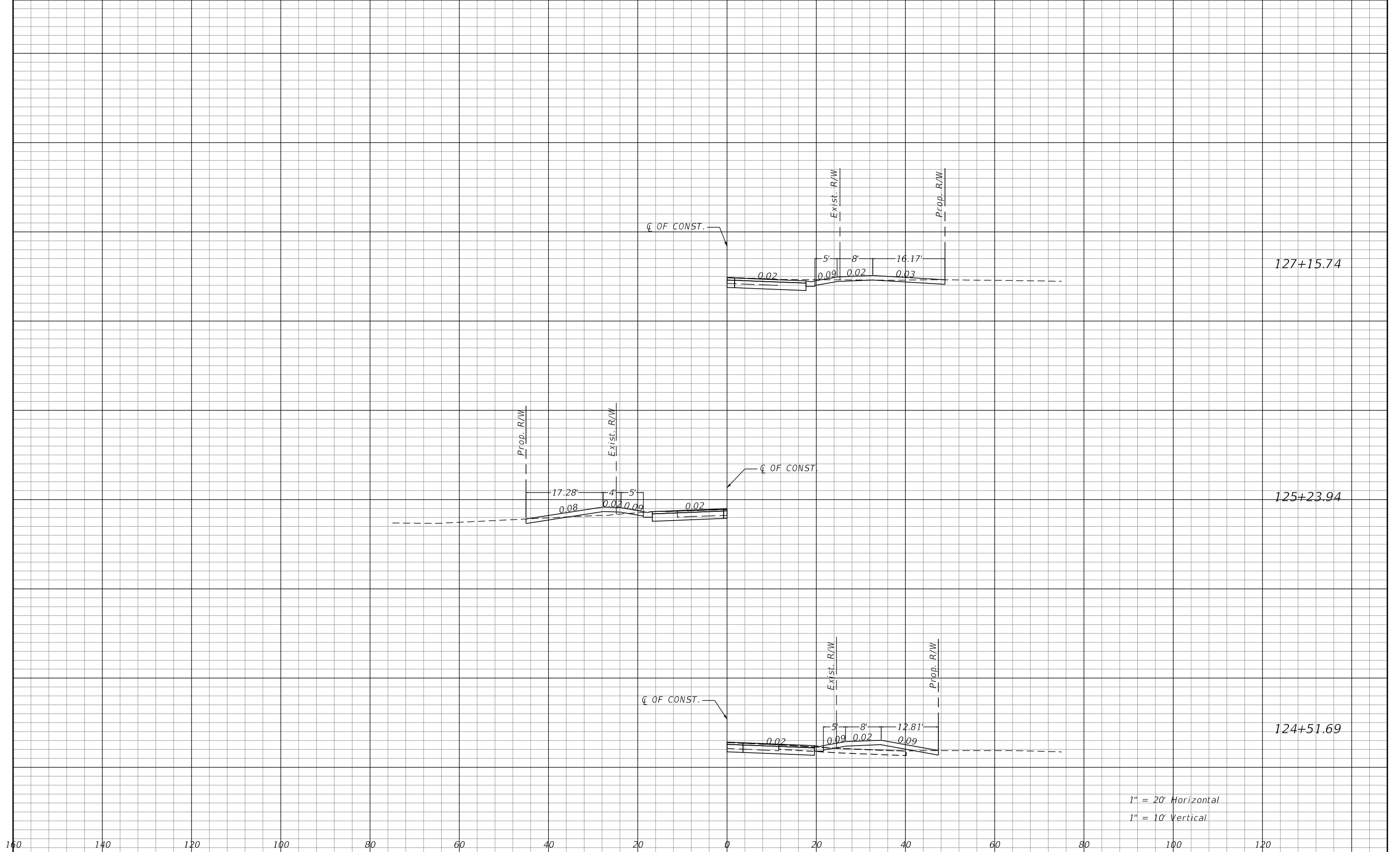
SHEET NO.  
285



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

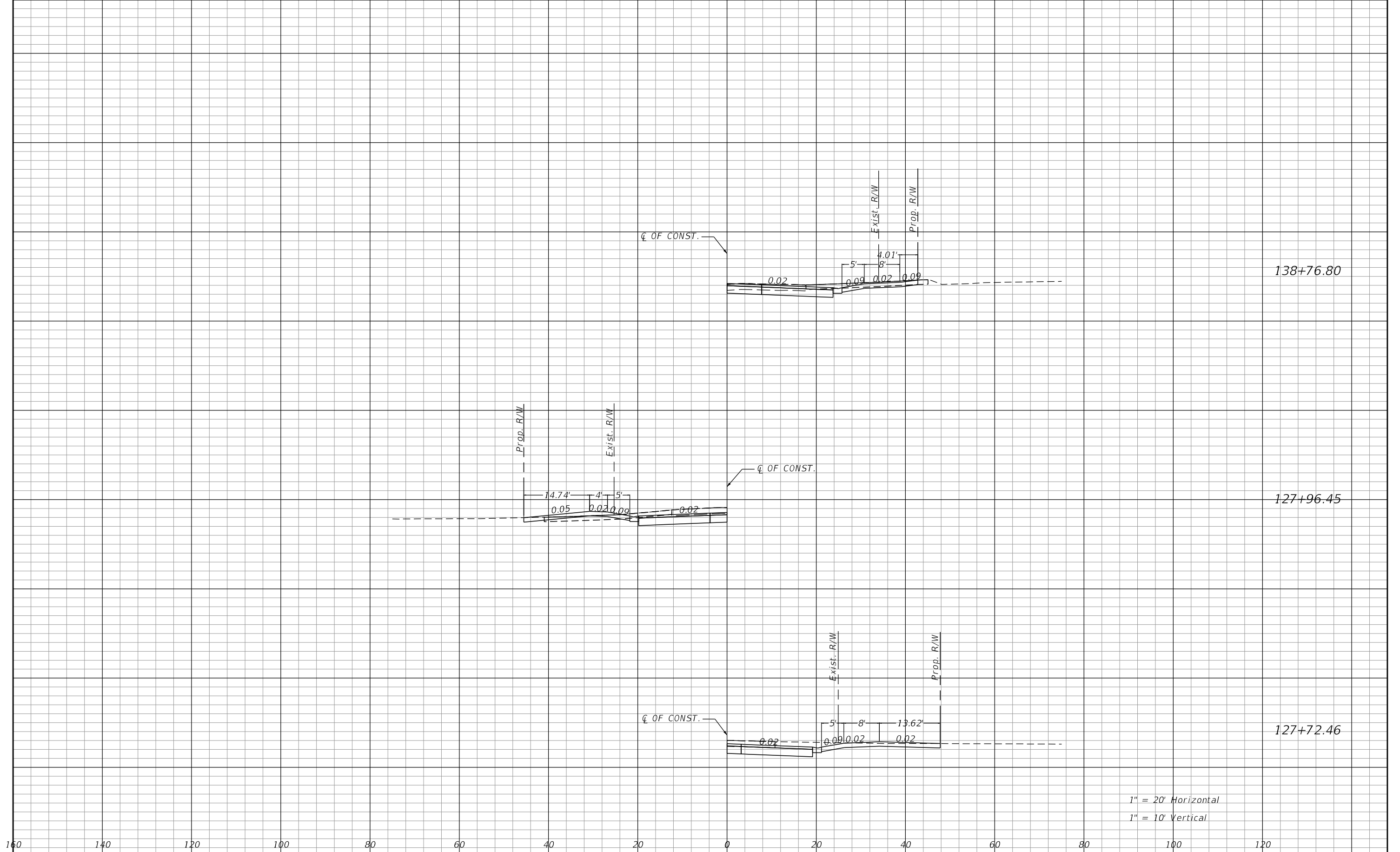
160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION			
		PRELIMINARY NOT FOR CONSTRUCTION									
				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917				SEMINOLE COUNTY PUBLIC WORKS ROAD NO. CR 431 COUNTY SEMINOLE SEMINOLE COUNTY CIP 01785303		<b>ROADWAY CROSS-SECTIONS          (DRIVEWAYS)</b> SHEET NO. 286	



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

DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION	
		PRELIMINARY NOT FOR CONSTRUCTION							
JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917				SEMINOLE COUNTY PUBLIC WORKS ROAD NO. COUNTY SEMINOLE COUNTY CIP CR 431 SEMINOLE 01785303			<b>ROADWAY CROSS-SECTIONS          (DRIVEWAYS)</b>		SHEET NO. 287



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

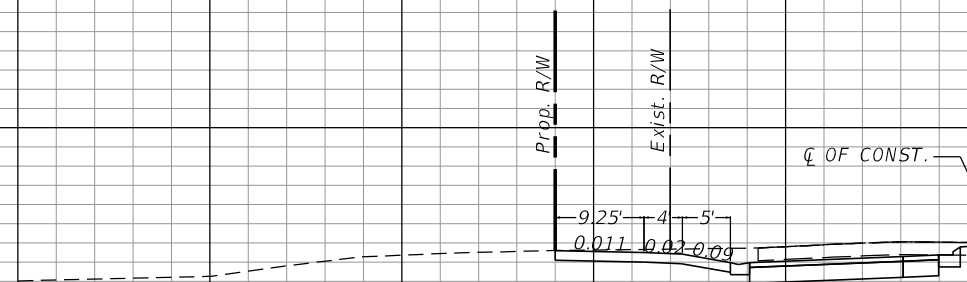
DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917		SEMINOLE COUNTY PUBLIC WORKS ROAD NO. COUNTY SEMINOLE COUNTY CIP CR 431 SEMINOLE 01785303		<b>ROADWAY CROSS-SECTIONS          (DRIVEWAYS)</b>		SHEET NO. 288	
PRELIMINARY NOT FOR CONSTRUCTION																	



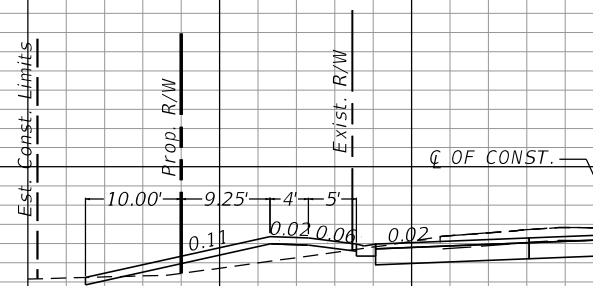
1" = 20' Horizontal  
 1" = 10' Vertical

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

DATE		DESCRIPTION		REVISIONS		JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			ROADWAY CROSS-SECTIONS (DRIVEWAYS)	SHEET NO.
DATE		DESCRIPTION		REVISIONS		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		289			
		PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303					



17+00.00



14+65.82

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**ROADWAY CROSS-SECTIONS  
(DRIVEWAYS)**

SHEET NO.  
289A

**STORM WATER POLLUTION PREVENTION PLAN**  
**ORANGE BOULEVARD (CR 431) FROM SR 46 TO MONROE ROAD**  
**CIP ID: 01785303 COUNTY: SEMINOLE**

**I. SITE DESCRIPTION:**

**(1) NATURE OF CONSTRUCTION ACTIVITY**

THE PROJECT INCLUDES ADDING BICYCLE LANES, A SIDEWALK, AND A MULTI-USE TRAIL. THE PROPOSED TYPICAL SECTION PROPOSED A TWO-LANE UNDIVIDED SECTION WITH CENTER LEFT TURN LANE, FIVE-FOOT SIDEWALK ON THE NORTH SIDE, TEN-FOOT MULTI-USE PATH ON THE SOUTH SIDE, AND CURB AND GUTTER FROM SR 46 TO MONROE ROAD IN SEMINOLE COUNTY, FLORIDA. THE TOTAL PROJECT LENGTH IS 3.67 MILES. THIS PROJECT IS LOCATED IN SECTIONS 16, 17, 19, 20, 21 24, 25, AND 30, TOWNSHIP 19, AND RANGES 29 AND 30.

**(2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:**

- (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.
- (i) PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. THIS WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.

**(4) PROJECT AREAS:**

THE ESTIMATED TOTAL PROJECT AREA IS 60.2 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 57.2 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) = 0.52      DURING: Cw (D) = 0.67      AFTER: Cw (A) = 0.67

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 AREAS.

**(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:**

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
2 - ADAMSVILLE-SPARR FINE SANDS	C	33 INCHES
3 - ARENTS, 0 TO 5 PERCENT SLOPES	C	24 INCHES
6,7 - ASTATULA-APOPKA FINE SANDS, 0 TO 8 PERCENT	A	>72 INCHES
9 - BASINGER AND DELRAY FINE SANDS	B/D	6 INCHES
10 - BASINGER, SAMSULA, AND HONTOON SOILS, DEPRESSIONAL	D	0 INCHES

**SOIL TYPE**

- 13 - EAUGALLIE AND IMMOKALEE FINE SANDS
- 15 - FELDA AND MANATEE MUCKY FINE SANDS, DEPRESSIONAL
- 16 - IMMOKALEE SAND, 0 TO 2 PERCENT SLOPES
- 20 - MYAKKA AND EAUGALLIE FINE SANDS
- 21 - NITTAW MUCKY FINE SAND, DEPRESSIONAL
- 23 - NITTAW, OKEELANTA, AND BASINGER SOILS, FREQUENTLY FLOODED
- 25 - PINEDA-PINEDA, WET, FINE SAND, 0 TO 2 PERCENT SLOPES
- 26 - UDORTHENTS, EXCAVATED
- 27 - POMELLO FINE SAND, 0 TO 5 PERCENT SLOPES
- 31 - TAVARES-MILLHOPPER COMPLEX, 0 TO 5 PERCENT SLOPES

**HYDROLOGIC GROUP**

- B/D
- D
- B/D
- B/D
- D
- D
- B/D
- D
- C
- A

**DEPTH TO SHWE**

- 12 INCHES
- 0 INCHES
- 12 INCHES
- 12 INCHES
- 0 INCHES
- 0 INCHES
- 12 INCHES
- 57 INCHES
- 33 INCHES
- 57 INCHES

**REFERENCE: USDA WEB SOILS SURVEY**

**(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: SEE CONSTRUCTION PLANS

**(8) RECEIVING WATERS:**

THE PROJECT DRAINS TO THE ST. JOHNS RIVER ABOVE WEKIVA RIVER AND THE LOCKHART-SMITH CANAL.

THE ST. JOHNS RIVER (WBID #2893C) AND LOCKHART-SMITH CANAL (WBID #2962) ARE LISTED ON THE FLORIDA TOTAL MAXIMUM DAILY LOAD LIST FOR DISSOLVED OXYGEN, TN, AND TP.

**(9) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)**

DESCRIPTION	STATION	LATITUDE	LONGITUDE
(a) (2) 4x5' CULVERT	65+83 LT	28° 49' 29.0" N	81° 21' 21.7" W
(b) 30" PIPE	92+54 LT	28° 49' 35.3" N	81° 20' 52.7" W
(c) 18" PIPE	92+68 LT	28° 49' 38.1" N	81° 20' 53.3" W
(d) 3'x6' CULVERT	110+60 LT	28° 49' 39.5" N	81° 20' 32.9" W
(e) 24" PIPE	131+39 LT	28° 49' 54.5" N	81° 20' 12.5" W
(f) 24X56" PIPE	145+55 LT	28° 49' 47.5" N	81° 19' 54.6" W
(g) 18" PIPE	148+94 LT	28° 49' 47.4" N	81° 19' 50.7" W
(h) 24" PIPE	158+51 LT	28° 49' 47.0" N	81° 19' 40.0" W
(i) (3) 30" PIPE	158+61 LT	28° 49' 47.0" N	81° 19' 39.9" W
(j) 24" PIPE	158+64 LT	28° 49' 48.0" N	81° 19' 39.7" W

**(10) WETLANDS: IMPACTS TO ANY WETLAND FEATURES ADJACENT TO THE EXISTING ROADWAY WILL BE MINIMIZED.**

**(11) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)**

- (a) EXISTING RUNOFF IS TREATED PRIMARILY THROUGH ROADSIDE DITCHES AND A FEW PONDS. PROPOSED RUNOFF IS CAPTURED IN A CLOSED STORM DRAIN SYSTEM AND PRIMARILY TREATED THROUGH PONDS.
- (b) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
- (c) LOCATION OF PERMANENT CONTROLS: PONDS AND STORM SEWER ARE THE PRIMARY STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE ROADWAY PLANS.
- (d) 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.
- (e) TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.

**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).

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REVISIONS				STEVEN D. COLLINS, P.E., Ph.D. P.E. LICENSE NUMBER 80872 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			SHEET NO.  290
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303	<b>STORMWATER POLLUTION PREVENTION PLAN (1)</b>	

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- (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.

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 REQUIRED FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, FDEP, US ARMY CORPS OF ENGINEERS AND FDEP CONSTRUCTION GENERIC PERMIT.
- (4) NON-STORMWATER (INCLUDING SPILL REPORTING) PROVIDE THE FDOT WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, 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 THE DISTRICT CONTAMINATION IMPACT COORDINATOR AT (386) 943-5395.

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.

- (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 DAILY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT.
- (2) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A STORM EVENT THAT IS 0.5 INCHES OR GREATER 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 DEPARTMENT 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				STEVEN D. COLLINS, P.E., Ph.D. P.E. LICENSE NUMBER 80872 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			SHEET NO.  291
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303	

**STORMWATER POLLUTION  
PREVENTION PLAN (2)**



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**SUGGESTED SEQUENCE OF CONSTRUCTION**

**PHASE 1A:**  
 THE INTENT OF THIS PHASE IS TO INSTALL THE NEW WATER, SANITARY SEWER, AND RECLAIMED WATER UTILITIES, CONSTRUCT THE NORTHERN HALF OF THE NEW BOX CULVERT AT DELEWARE, AND TO ALLOW THE EXISTING OVERHEAD UTILITIES TO BE RELOCATED.

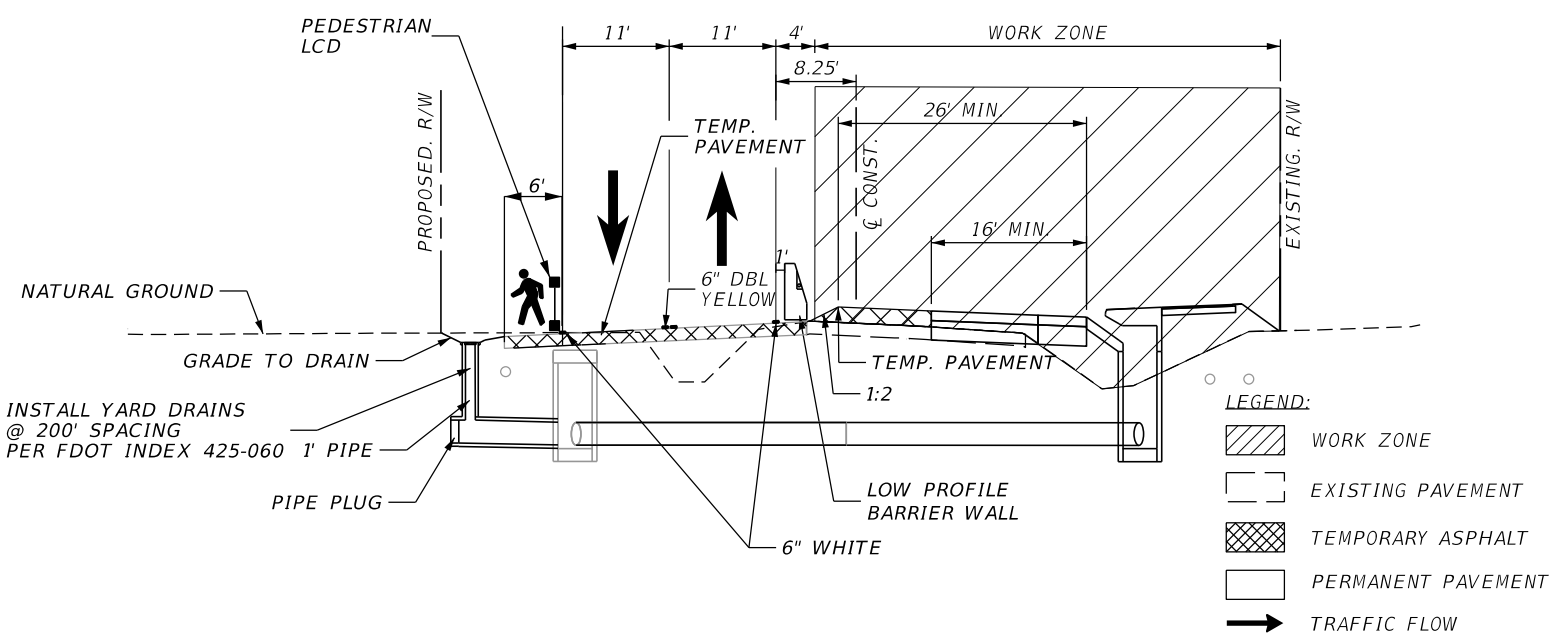
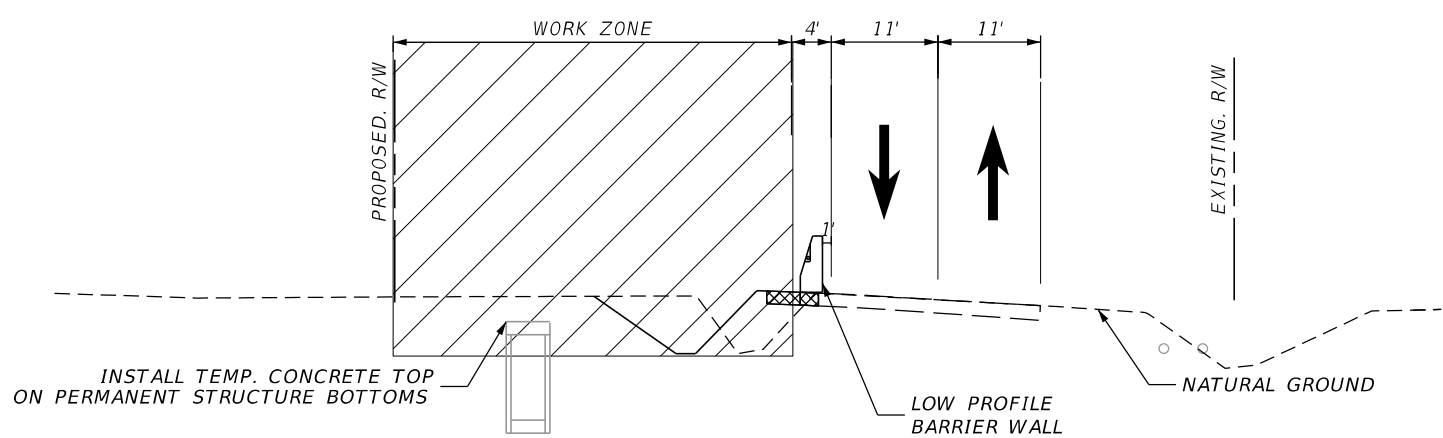
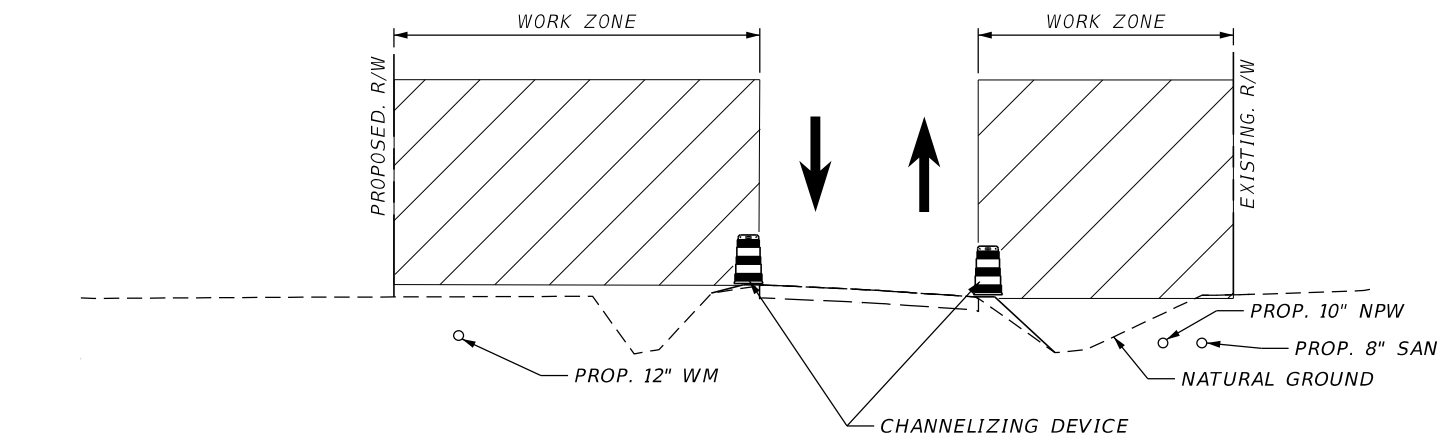
1. INSTALL WATER, SANITARY SEWER, AND RECLAIMED WATER IMPROVEMENTS.
2. REMOVE ALL EXISTING UTILITIES NO LONGER IN SERVICE
3. CONSTRUCT NORTH PORTION OF NEW BOX CULVERT AT DELEWARE (STA. 66+00 LT). DURING CONSTRUCTION OF BOX CULVERT, USE PROVIDED DELEWARE ST. DETOUR.

**PHASE 1B:**  
 THE INTENT OF THIS PHASE IS TO CONSTRUCT THE TEMPORARY PAVEMENT AND PORTIONS OF THE PROPOSED DRAINAGE SYSTEM AND PONDS IN THE WESTBOUND DIRECTION PRIOR TO SHIFTING TRAFFIC TOWARD THE WESTBOUND SIDE. ALL DRAINAGE STRUCTURES CONSTRUCTED IN THIS PHASE MUST BE COVERED WITH A CONCRETE TOP PRIOR TO BEING PAVED OVER.

1. INSTALL ALL ADVANCE WARNING DEVICES, AND TEMPORARY SIGNAGE.
2. INSTALL ALL POLLUTION PREVENTION DEVICES.
3. MAINTAIN INCOMING AND OUTGOING TRAFFIC IN ONE LANE TRAFFIC OPERATIONS THROUGH FLAGGING OPERATION DURING THE CONSTRUCTION OF TEMPORARY PAVEMENT AND INSTALL TEMPORARY BARRIER WALL.
4. INSTALL PORTIONS OF PERMANENT DRAINAGE SYSTEM PER PLANS. CONSTRUCT TEMPORARY CONCRETE TOP ON ALL PERMANENT STRUCTURE BOTTOMS TO WITHSTAND TRAFFIC LOADING IN PHASE II.
5. CONSTRUCT WB TEMPORARY PAVEMENT.
6. MAINTAIN EXISTING LEFT TURN LANES TO SIDE STREETS AND BUSINESSES OPEN ON NORTH SIDE OF PROJECT DURING OFF PEAK HOURS.

**PHASE II:**  
 THE INTENT OF THIS PHASE IS TO CONSTRUCT THE OUTSIDE EB LANES AND ASSOCIATED DRAINAGE SYSTEM

1. INSTALL ALL ADVANCE WARNING DEVICES, BARRICADES, AND TEMPORARY SIGNAGE.
2. SHIFT ALL INCOMING TRAFFIC ONTO THE NEWLY CONSTRUCTED TEMPORARY PAVEMENT ON THE WB SIDE
3. INSTALL ALL POLLUTION PREVENTION DEVICES.
4. COMMENCE CLEARING AND GRUBBING OPERATIONS.
5. CONSTRUCT DRAINAGE SYSTEM IN EB DIRECTION AND CONNECT PHASE II WITH LATERALS BUILT UNDER PHASE IB.
6. CONSTRUCT ROADWAY IMPROVEMENTS INCLUDING EMBANKMENT, BASE, STABILIZATION, STRUCTURAL COURSE, CURB AND GUTTER AND SIDEWALK.
7. CONSTRUCT TEMPORARY PAVEMENT ON THE INSIDE EB LANE TO BE USED IN THE NEXT PHASE.
8. MAINTAIN EXISTING LEFT TURN LANES TO SIDE STREETS AND BUSINESSES OPEN AT ALL TIMES.



**LEGEND:**

- WORK ZONE
- EXISTING PAVEMENT
- TEMPORARY ASPHALT
- PERMANENT PAVEMENT
- TRAFFIC FLOW

REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>TEMPORARY TRAFFIC CONTROL PLANS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		292
10/10/2022	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303			

**TEMPORARY TRAFFIC CONTROL PLAN NOTES**

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARDS.
2. THE POSTED SPEED DURING CONSTRUCTION SHALL BE 35 MPH.
3. MAINTAIN VISIBILITY OF EXISTING SIDE STREET SIGNS FOR EMERGENCY PURPOSES.
4. INSTALL PCMS UNITS ON SR 46 AND MONROE RD. 1000' PRIOR TO INTERSECTION WITH ORANGE BLVD. PCMS MESSAGES ARE TO BE AS SHOWN BELOW:

PCMS MESSAGE PRIOR TO CONSTRUCTION (14 DAYS IN ADVANCE)

**ORANGE  
BLV ROAD  
WORK**

**BEGINS  
MM/DD/YY**

PCMS MESSAGE DURING CONSTRUCTION

**ORANGE  
BLV ROAD  
WORK**

**EXPECT  
DELAYS**

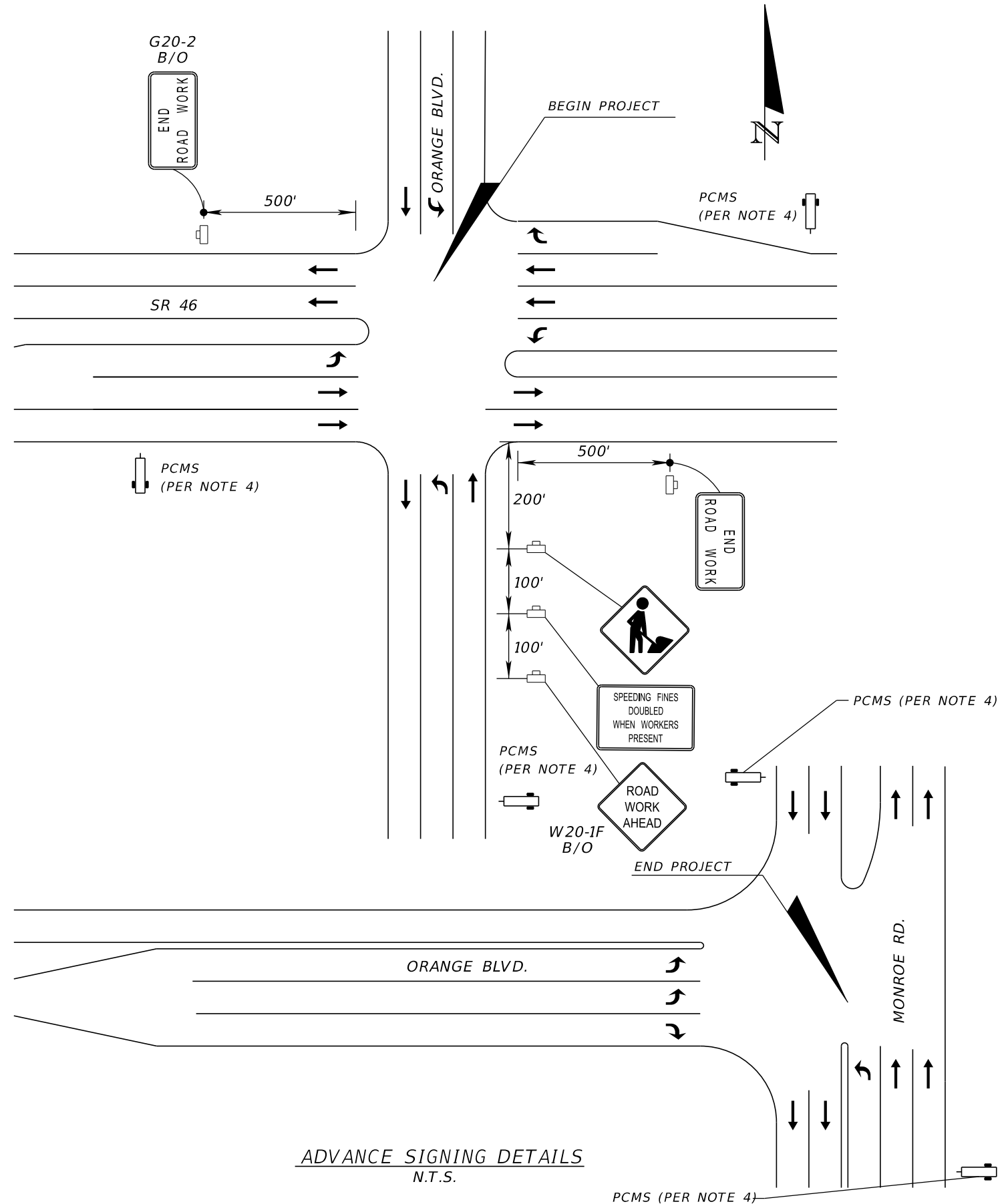
5. PCMS MESSAGE TO BE PLACED ON ORANGE BLVD. DURING PHASE 1B OF CONSTRUCTION. SIGNS TO BE PLACED 500' PRIOR TO FIRST WARNING SIGN

**ONE LANE  
ROAD  
AHEAD**

**BE  
PREPARED  
TO STOP**

6. CONTRACTOR TO PROVIDE SCHEDULE OF WORK TO LOCAL SCHOOLS FOR COORDINATION OF BUSING AND STUDENT PASSAGE.
7. CONTRACTOR SHALL MAINTAIN ACCESS FOR TRASH PICK-UP AND MAIL DELIVERY FOR DURATION OF CONSTRUCTION.
8. IN ACCORDANCE WITH SECTION 6.49.6.5 OF SEMINOLE COUNTY'S DIVISION I OF THE STANDARD SPECIFICATIONS, GENERAL CONDITIONS, THE AWARDED FIRM MUST PROVIDE AN ENGINEER'S FIELD OFFICE WITH ALL COSTS ASSOCIATED TO BE INCLUDED IN PAY ITEM 101-1, MOBILIZATION, 1 LUMP SUM. THE OCCUPATION DURATION WILL BE BASED ON A FULLY FUNCTIONAL MOVE IN READY OFFICE AVAILABLE FIFTEEN (15) CALENDAR DAYS PRIOR TO THE PROJECT'S NOTICE TO PROCEED (NTP), THRU THIRTY (30) CALENDAR DAYS FOLLOWING THE COUNTY'S FINAL ACCEPTANCE FOR THE PROJECT.

SECTION 6.49.6.6 OF THE COUNTY'S DIVISION I OF THE STANDARD SPECIFICATIONS, GENERAL CONDITIONS ARE HEREBY AMENDED AS FOLLOWS: HAVE A TOTAL OF NOT LESS THAN ONE THOUSAND (1000) SF OF FLOOR SPACE, EXCLUSIVE OF UTILITY ROOM AND TOILET ROOM.

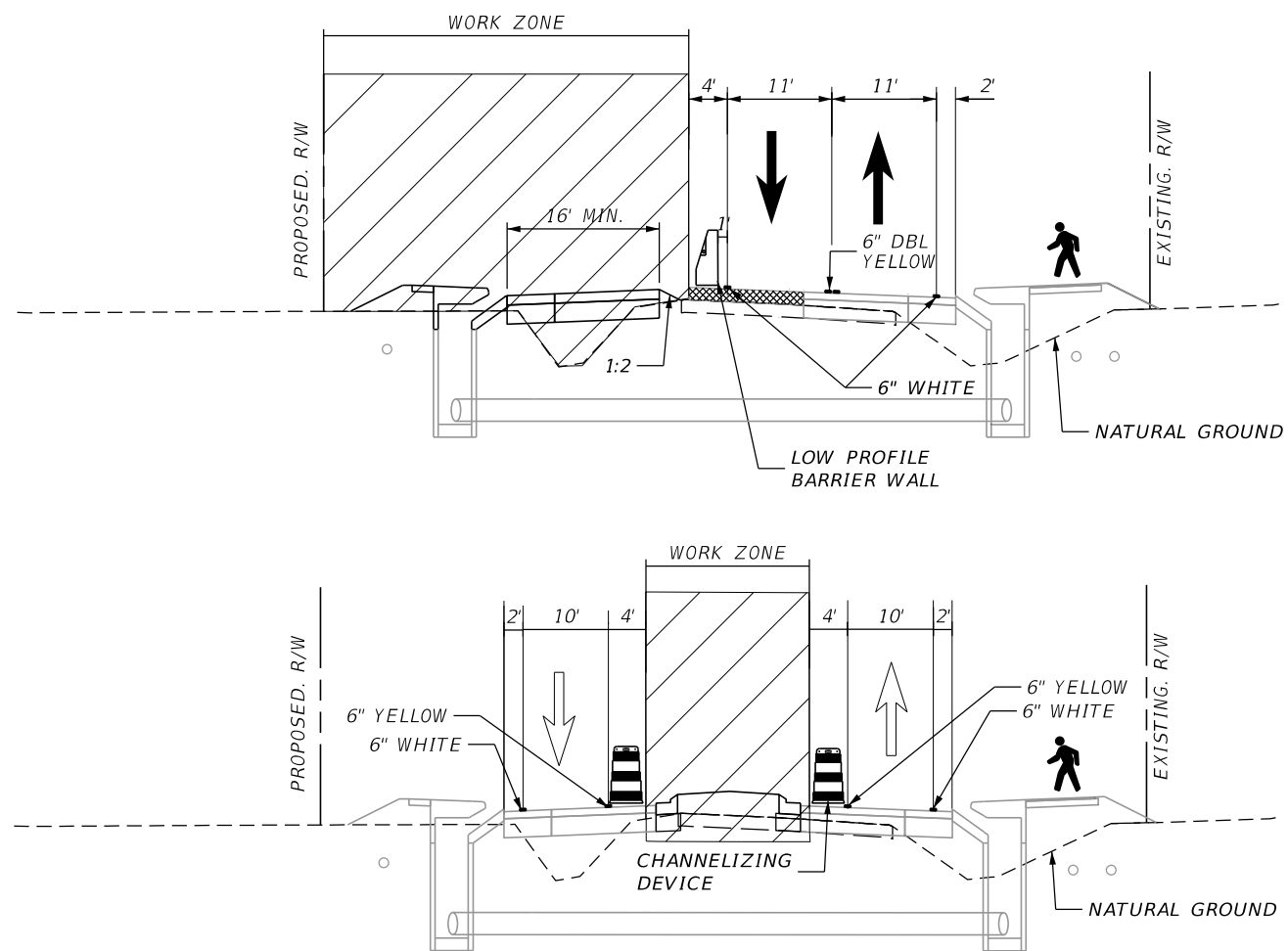


**ADVANCE SIGNING DETAILS**  
N.T.S.

10/10/2022 3:56:58 PM 0:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCDRD01.dgn

REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>TEMPORARY TRAFFIC CONTROL PLANS</b>	SHEET NO.  294
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
10/10/2022	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303			

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**PHASE III:**  
THE INTENT OF THIS PHASE IS TO CONSTRUCT THE OUTSIDE WB LANES.

1. INSTALL ALL ADVANCE WARNING DEVICES, BARRICADES, AND TEMPORARY SIGNAGE.
2. SHIFT ALL INCOMING TRAFFIC ONTO THE NEWLY CONSTRUCTED TEMPORARY PAVEMENT AND OUTSIDE LANE ON THE EB SIDE.
3. INSTALL ALL POLLUTION PREVENTION DEVICES.
4. COMMENCE CLEARING AND GRUBBING OPERATIONS.
5. CONSTRUCT DRAINAGE IMPROVEMENTS.
6. CONSTRUCT ROADWAY IMPROVEMENTS INCLUDING EMBANKMENT, BASE, STABILIZATION, STRUCTURAL COURSE, CURB AND GUTTER AND SIDEWALK.
7. MAINTAIN EXISTING LEFT TURN LANES TO SIDE STREETS AND BUSINESSES OPEN AT ALL TIMES.
8. REROUTE ALL BICYCLISTS AND PEDESTRIANS TO NEW MULTI-USE PATH.

**PHASE IV:**  
THE INTENT OF THIS PHASE IS TO CONSTRUCT THE MEDIAN IMPROVEMENTS

1. INSTALL ALL ADVANCE WARNING DEVICES, BARRICADES, AND TEMPORARY SIGNAGE.
2. SHIFT ALL INCOMING TRAFFIC ONTO THE NEWLY CONSTRUCTED ROADWAY ON BOTH EB AND WB DIRECTION.
3. CONSTRUCT THE PROPOSED MEDIAN IMPROVEMENTS, INCLUDING EMBANKMENT, BASE, STABILIZATION, STRUCTURAL COURSE, CURB AND GUTTER AND TRAFFIC SEPARATORS.
4. MAINTAIN EXISTING LEFT TURN LANES TO SIDE STREETS AND BUSINESSES OPEN AT ALL TIMES.
5. REROUTE ALL BICYCLISTS AND PEDESTRIANS TO NEW MULTI-USE PATH.

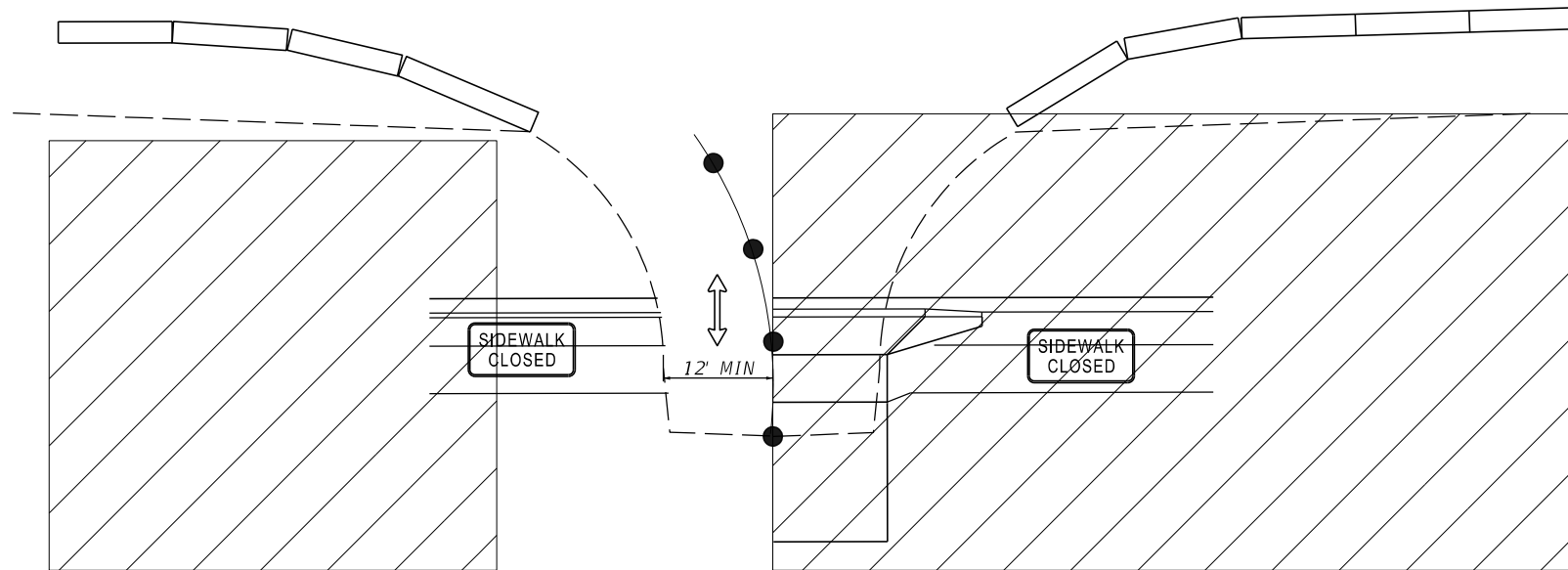
**PHASE V:**  
THE INTENT OF THIS PHASE IS TO RESURFACE ALL THRU LANES AND TURN LANES WITH FRICTION COURSE.

1. INSTALL ALL ADVANCE WARNING DEVICES, BARRICADES, AND TEMPORARY SIGNAGE.
2. UTILIZE A FLAGGING OPERATION TO PLACE FRICTION COURSE AND FINAL STRIPING PER THE SIGNING AND PAVEMENT MARKING PLANS.
3. MAINTAIN EXISTING LEFT TURN LANES TO SIDE STREETS AND BUSINESSES OPEN AT ALL TIMES.

- LEGEND:**
- WORK ZONE
  - EXISTING PAVEMENT
  - TEMPORARY ASPHALT
  - PERMANENT PAVEMENT
  - TRAFFIC FLOW

REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		293
10/10/2022	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		

ORANGE BLVD.



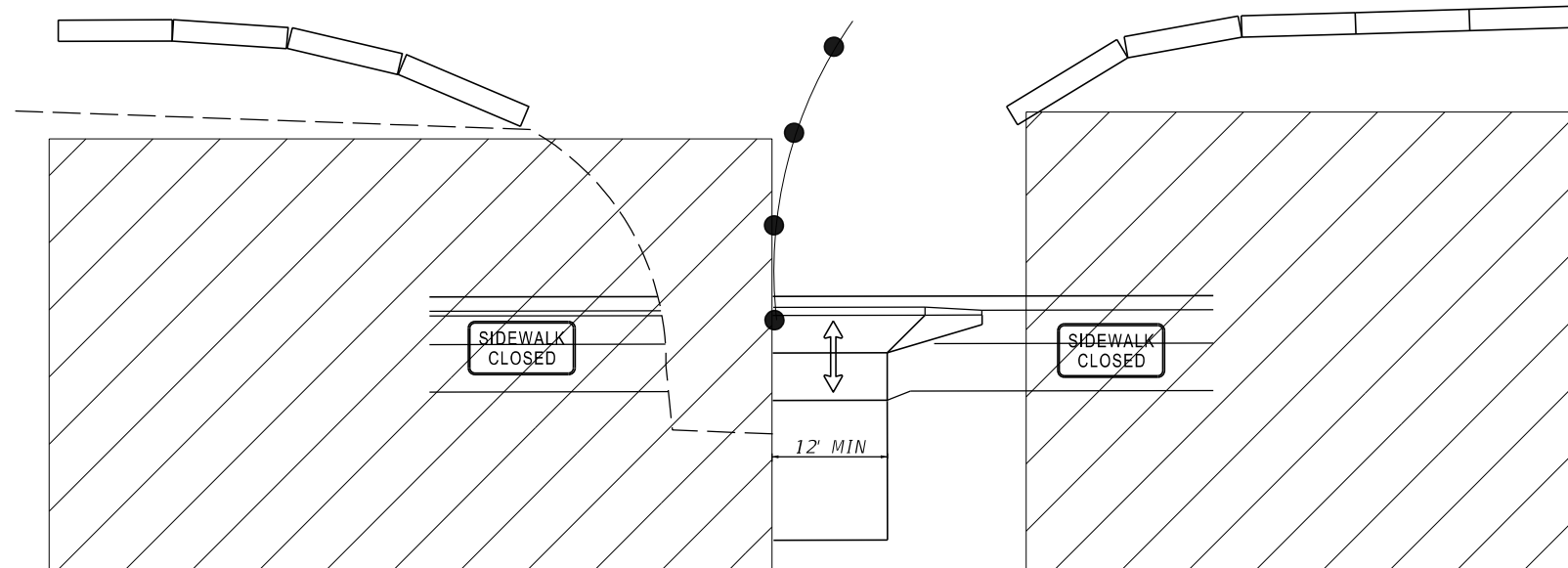
SUGGESTED SEQUENCE OF DRIVEWAY CONSTRUCTION

SHIFT TRAFFIC ONTO EXISTING SIDE OF DRIVEWAY

PROVIDE TEMP. TRAFFIC BARRIER FROM WALKZONE TO INCOMING AND OUT GOING TRAFFIC

PERFORM CONSTRUCTION WORK ON THE OTHER HALF OF EXISTING DRIVEWAY

ORANGE BLVD.



SHIFT TRAFFIC ONTO THE NEWLY BUILT SIDE OF DRIVEWAY

PERFORM CONSTRUCTION WORK ON THE REMAINING HALF OF EXISTING DRIVEWAY

PROVIDE TEMP. TRAFFIC BARRIER FROM WALKZONE TO INCOMING AND OUT GOING TRAFFIC

DRIVEWAY CONSTRUCTION DETAIL

LEGEND:

- TEMP. TRAFFIC BARRICADE
- WORK ZONE
- EXISTING PAVEMENT
- TEMP. TRAFFIC BARRIER
- TRAFFIC FLOW

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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


JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

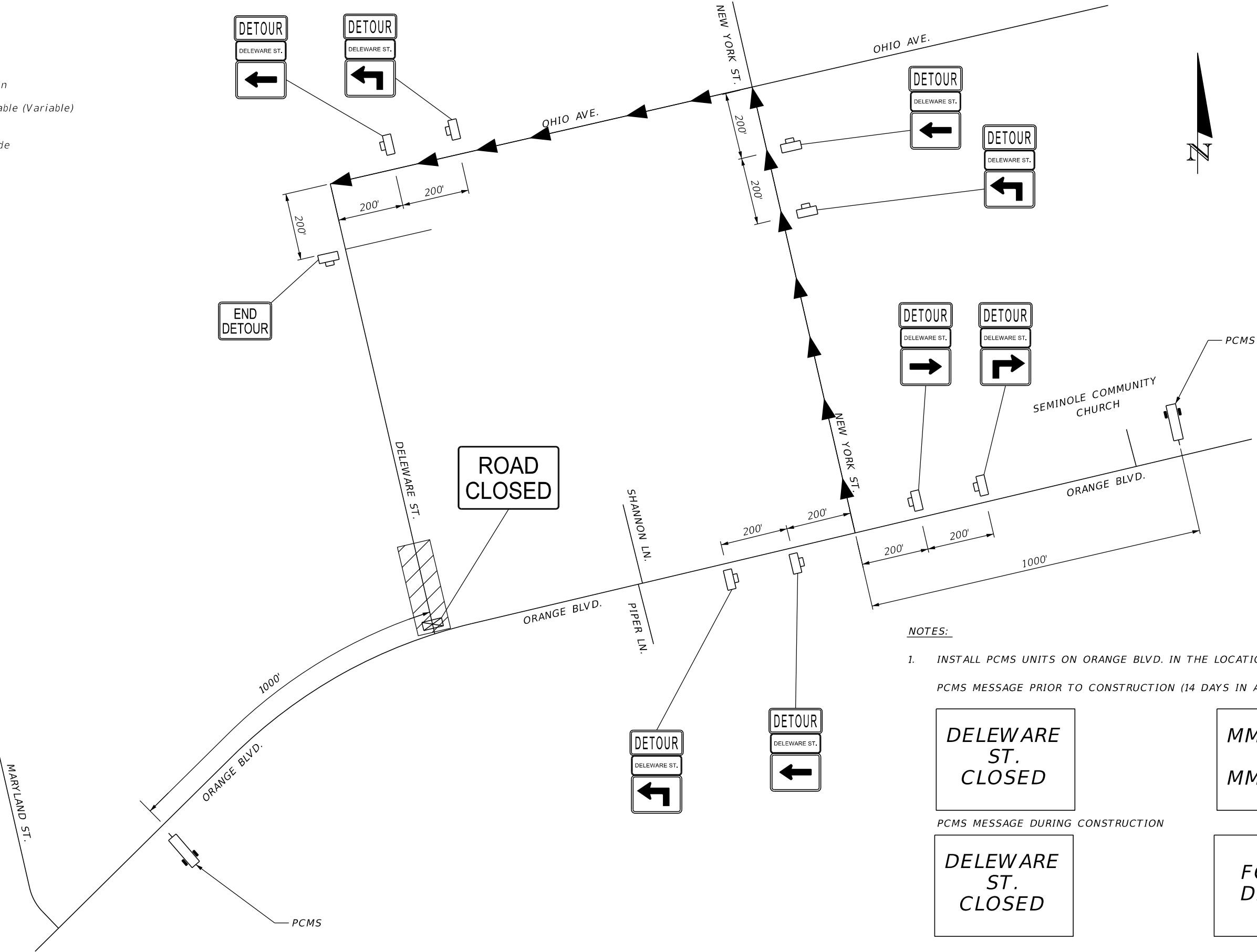
**TEMPORARY TRAFFIC CONTROL PLANS**

SHEET NO.  
295

**LEGEND:**

-  Work Zone Sign
-  Portable Changeable (Variable) Message Sign
-  Type III Barricade

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**NOTES:**

1. INSTALL PCMS UNITS ON ORANGE BLVD. IN THE LOCATIONS SHOWN.  
PCMS MESSAGE PRIOR TO CONSTRUCTION (14 DAYS IN ADVANCE)

DELEWARE ST.  
CLOSED

MM/DD/YY  
TO  
MM/DD/YY

PCMS MESSAGE DURING CONSTRUCTION

DELEWARE ST.  
CLOSED

FOLLOW  
DETOUR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
10/10/2022	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN**  
**DELEWARE ST. DETOUR**

SHEET NO.  
296

DRAINAGE EASEMENT

TEMP 42" PIPE

TEMP DBI  
INDEX 425-052  
ELEV. 25.00  
FL 19.85 (AH,RT)

SANDBAGS

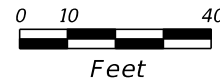
S-87-1

TEMP 42" PIPE

TEMP 42" PIPE  
FL. 20.96'

S-91

S-89



S-91-1

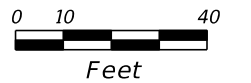
TIE TEMP 24" PIPE TO  
S-231 AT FL. 18.90'

TEMP 24" PIPE

TEMP 24" PIPE  
FL. 20.31'

S-230

S-231



S-233

S-234

S-232

S-235

**CONSTRUCTION SEQUENCE:**

- 1) SEE DETAIL B-B ON SHEET 299 FOR SANDBAG PLACEMENT AROUND PROPOSED CULVERT (S-89 TO S-91) TO PROVIDE DRY WORKING AREA
- 2) CONSTRUCT TEMP DBI AS SHOWN ON PLAN
- 3) SEE DETAIL A-A ON SHEET 299 FOR SANDBAG AND TEMPORARY 42" PIPE PLACEMENT TO MAINTAIN POSITIVE DRAINAGE DURING PHASE 1
- 4) GRADE PROPOSED CULVERT OUTFALL ACCORDING TO PLAN
- 5) CONSTRUCT PROPOSED CULVERT TO PHASE 1 LIMITS
- 6) TEMPORARY DRAINAGE AND SANDBAGS TO BE REMOVED UPON COMPLETION OF PROPOSED CULVERT IN LATER PHASE

**CONSTRUCTION SEQUENCE:**

- 1) CONSTRUCT INLET S-231
- 2) SEE DETAIL B-B ON SHEET 299 FOR SANDBAG PLACEMENT AROUND PROPOSED CULVERT TO PROVIDE A DRY WORKING AREA IF NECESSARY
- 3) SEE DETAIL A-A ON SHEET 299 FOR SANDBAG PLACEMENT AT EASTBOUND LANE BOX CULVERT OPENING
- 4) PLACE 24" TEMP PIPE AT ELEVATIONS SPECIFIED ON PLAN AND CONNECT TO INLET S-231
- 5) TEMP 24" PIPE TO BE REMOVED UPON COMPLETION OF EASTBOUND LANE DRAINAGE IN LATER STAGE

10/10/2022 3:57:38 PM O:\2017\1710762\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\drainage\DRDTRD14.dgn

REVISIONS				STEVEN D. COLLINS, P.E., Ph.D. P.E. LICENSE NUMBER 80872 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			SHEET NO. 297
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CROSS CULVERT PHASING (1)			
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303				

DRAINAGE EASEMENT

TEMP 42" PIPE

TEMP DBI  
INDEX 425-052  
ELEV. 25.00  
FL 19.85 (AH,RT)

SANDBAGS

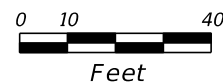
S-87-1

TEMP 42" PIPE

TEMP 42" PIPE  
FL. 20.96'

S-91

S-89



S-91-1

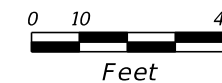
TIE TEMP 24" PIPE TO  
S-231 AT FL. 18.90'

TEMP 24" PIPE

TEMP 24" PIPE  
FL. 20.31'

S-230

S-231



S-233

S-234

S-232

S-235

**CONSTRUCTION SEQUENCE:**

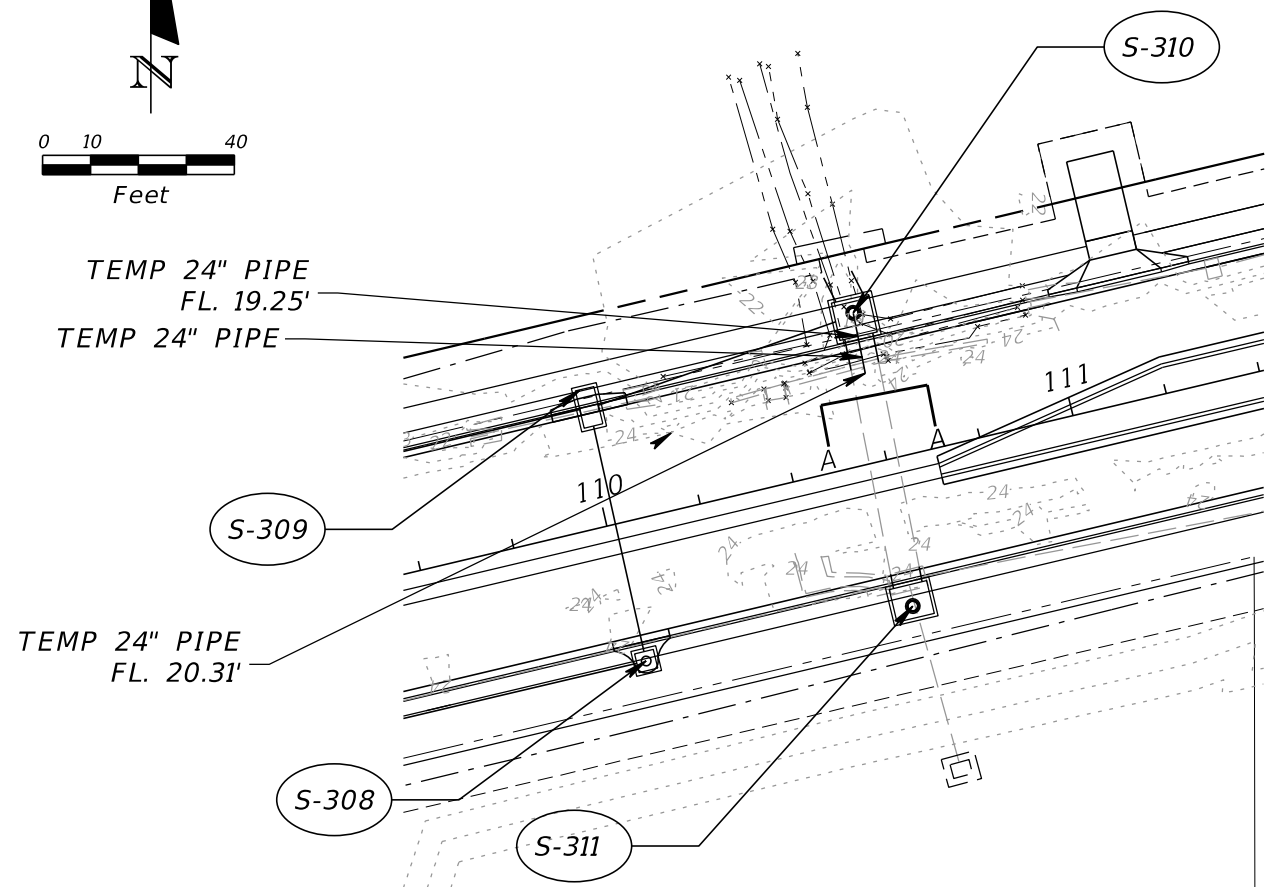
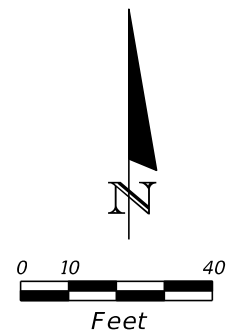
- 1) SEE DETAIL B-B ON SHEET 299 FOR SANDBAG PLACEMENT AROUND PROPOSED CULVERT (S-89 TO S-91) TO PROVIDE DRY WORKING AREA
- 2) CONSTRUCT TEMP DBI AS SHOWN ON PLAN
- 3) SEE DETAIL A-A ON SHEET 299 FOR SANDBAG AND TEMPORARY 42" PIPE PLACEMENT TO MAINTAIN POSITIVE DRAINAGE DURING PHASE 1
- 4) GRADE PROPOSED CULVERT OUTFALL ACCORDING TO PLAN
- 5) CONSTRUCT PROPOSED CULVERT TO PHASE 1 LIMITS
- 6) TEMPORARY DRAINAGE AND SANDBAGS TO BE REMOVED UPON COMPLETION OF PROPOSED CULVERT IN LATER PHASE

**CONSTRUCTION SEQUENCE:**

- 1) CONSTRUCT INLET S-231
- 2) SEE DETAIL B-B ON SHEET 299 FOR SANDBAG PLACEMENT AROUND PROPOSED CULVERT TO PROVIDE A DRY WORKING AREA IF NECESSARY
- 3) SEE DETAIL A-A ON SHEET 299 FOR SANDBAG PLACEMENT AT EASTBOUND LANE BOX CULVERT OPENING
- 4) PLACE 24" TEMP PIPE AT ELEVATIONS SPECIFIED ON PLAN AND CONNECT TO INLET S-231
- 5) TEMP 24" PIPE TO BE REMOVED UPON COMPLETION OF EASTBOUND LANE DRAINAGE IN LATER STAGE

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REVISIONS				STEVEN D. COLLINS, P.E., Ph.D. P.E. LICENSE NUMBER 80872 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS			SHEET NO. 297
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CROSS CULVERT PHASING (1)			
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303				



**CONSTRUCTION SEQUENCE:**

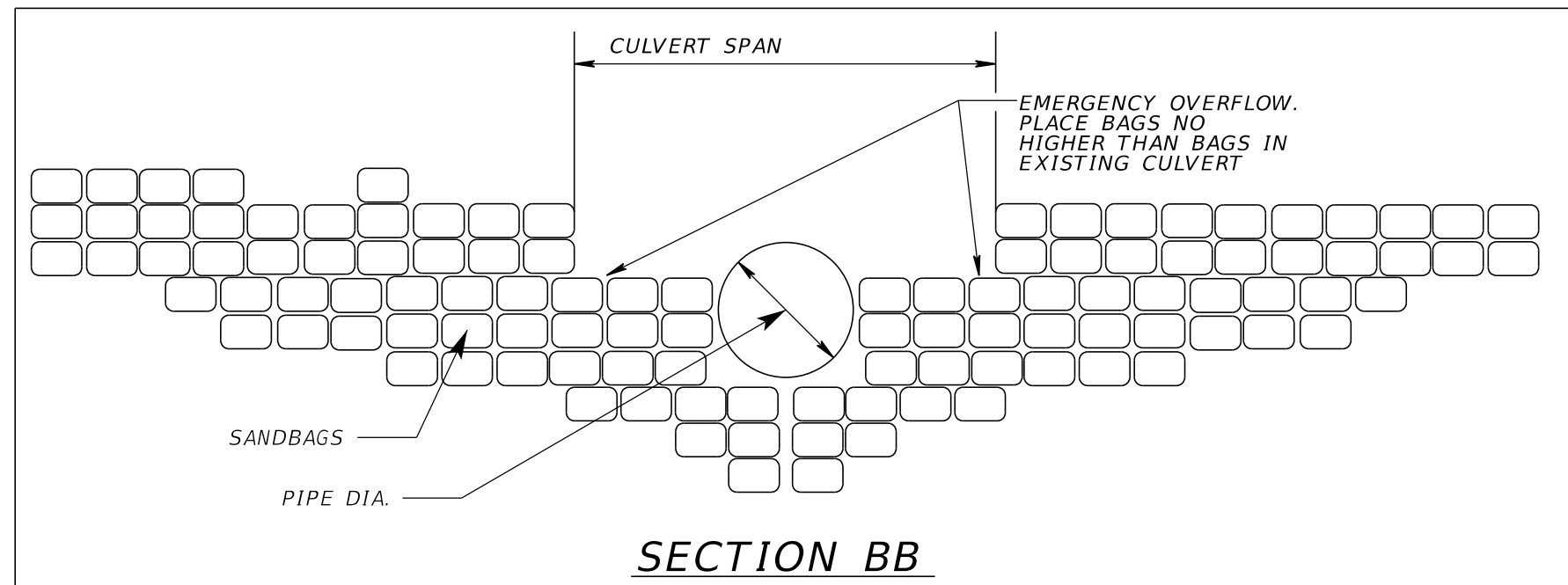
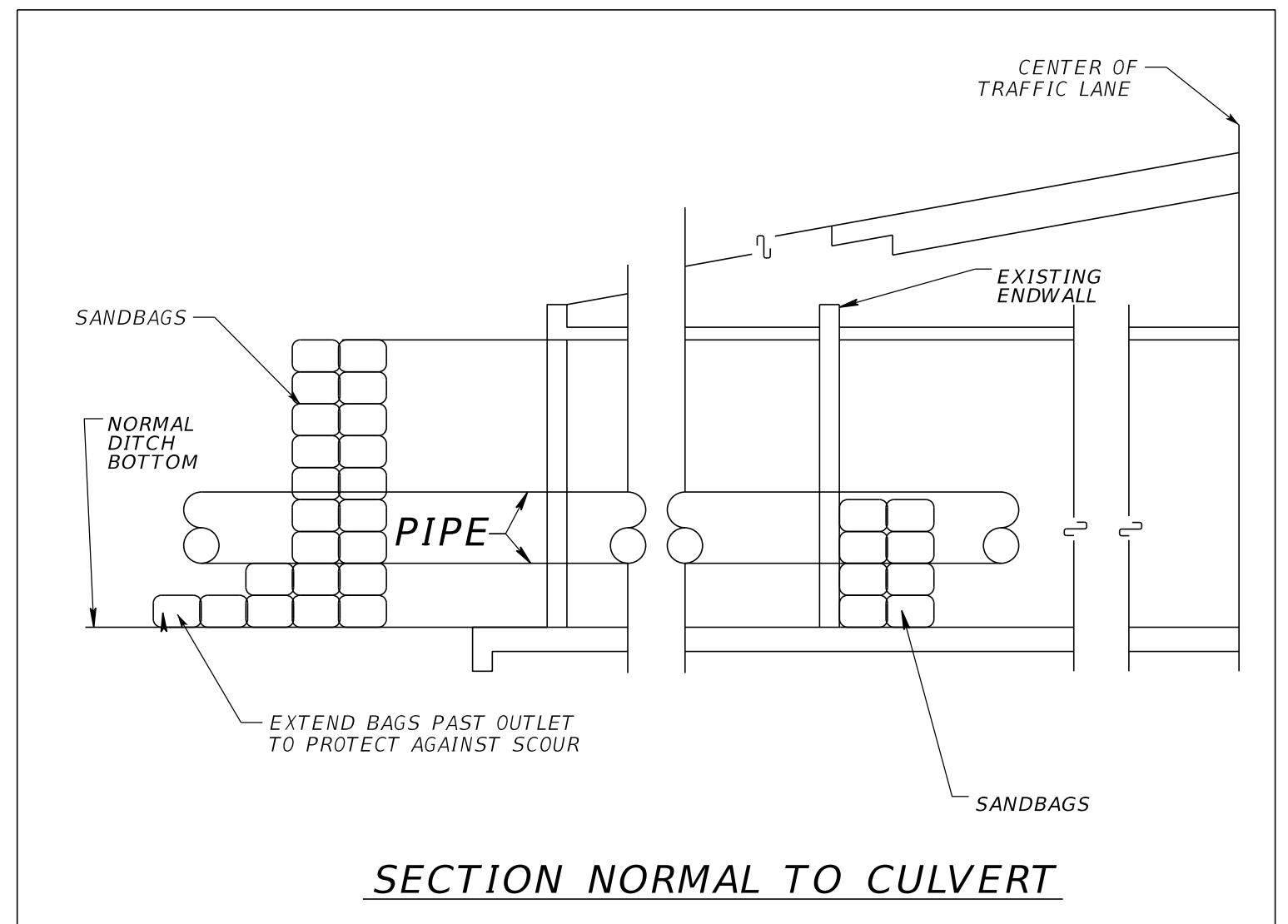
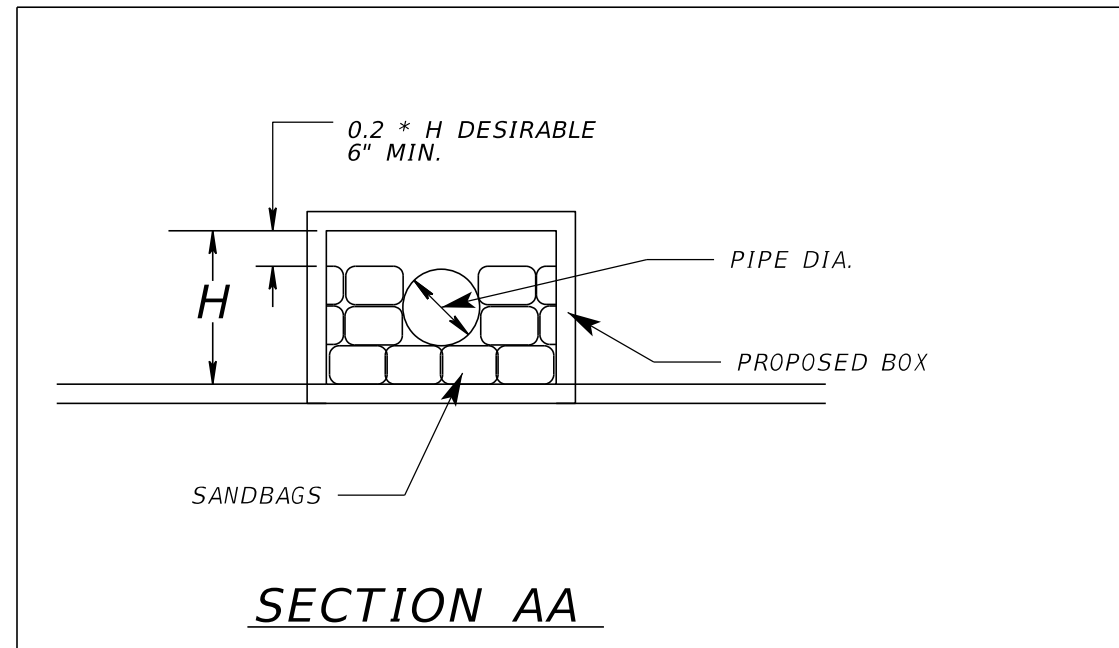
- 1) CONSTRUCT STRUCTURE S-310
- 2) SEE DETAIL B-B ON SHEET 299 FOR SANDBAG PLACEMENT AROUND PROPOSED CULVERT TO PROVIDE A DRY WORKING AREA IF NECESSARY
- 3) SEE DETAIL A-A ON SHEET 299 FOR SANDBAG PLACEMENT AT WESTBOUND LANE BOX CULVERT OPENING
- 4) PLACE 24" TEMP PIPE AT ELEVATIONS SPECIFIED ON PLAN AND CONNECT TO INLET S-310
- 5) TEMP 24" PIPE TO BE REMOVED UPON COMPLETION BOX CULVERT CONNECTION TO S-310

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REVISIONS				STEVEN D. COLLINS, P.E., Ph.D. P.E. LICENSE NUMBER 80872 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			SHEET NO.  298
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303	

**CROSS CULVERT PHASING (2)**





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REVISIONS			
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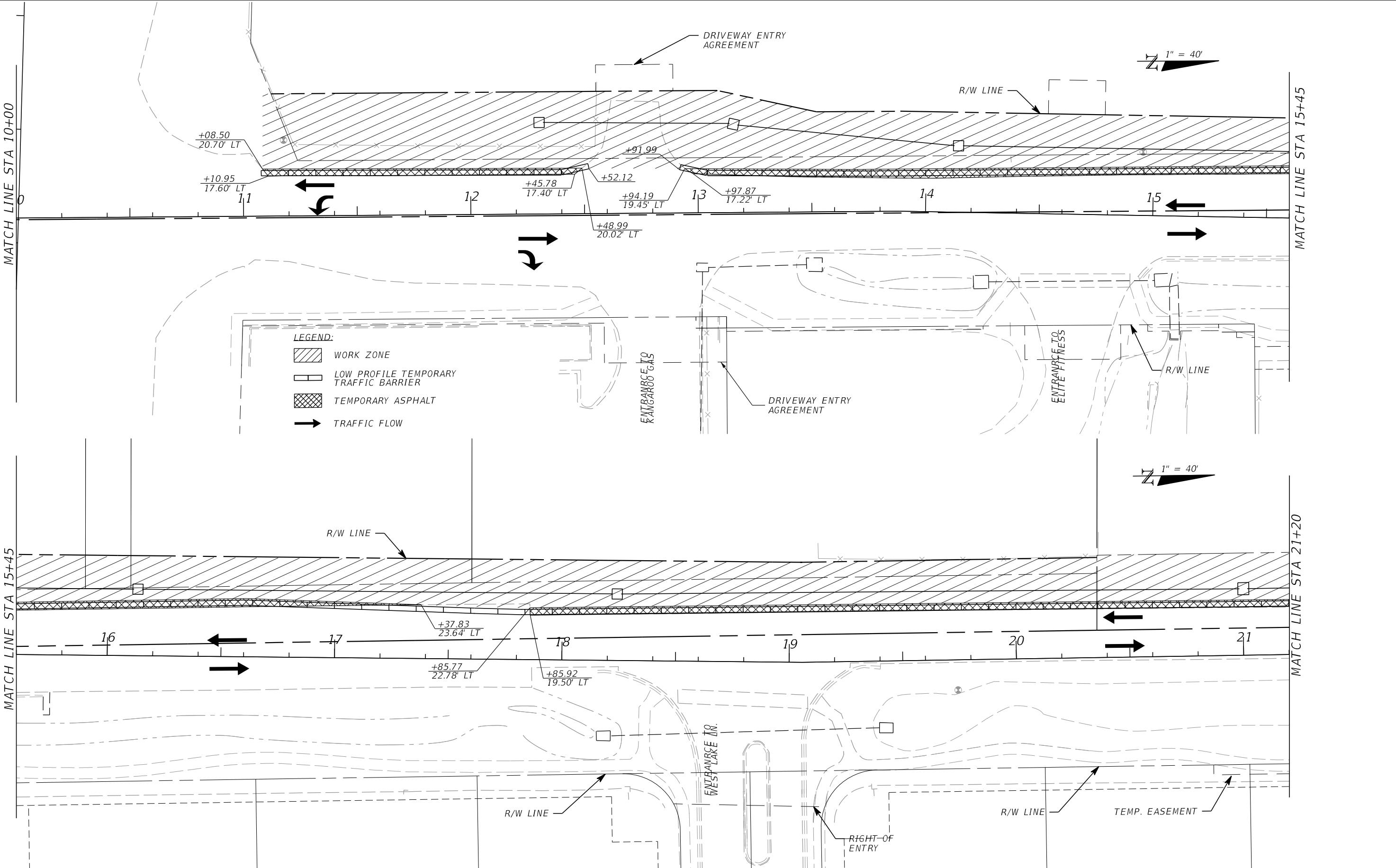
STEVEN D. COLLINS, P.E., Ph.D.  
 P.E. LICENSE NUMBER 80872  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**CROSS CULVERT DETAIL**

SHEET NO.  
299

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	PRELIMINARY NOT FOR CONSTRUCTION		

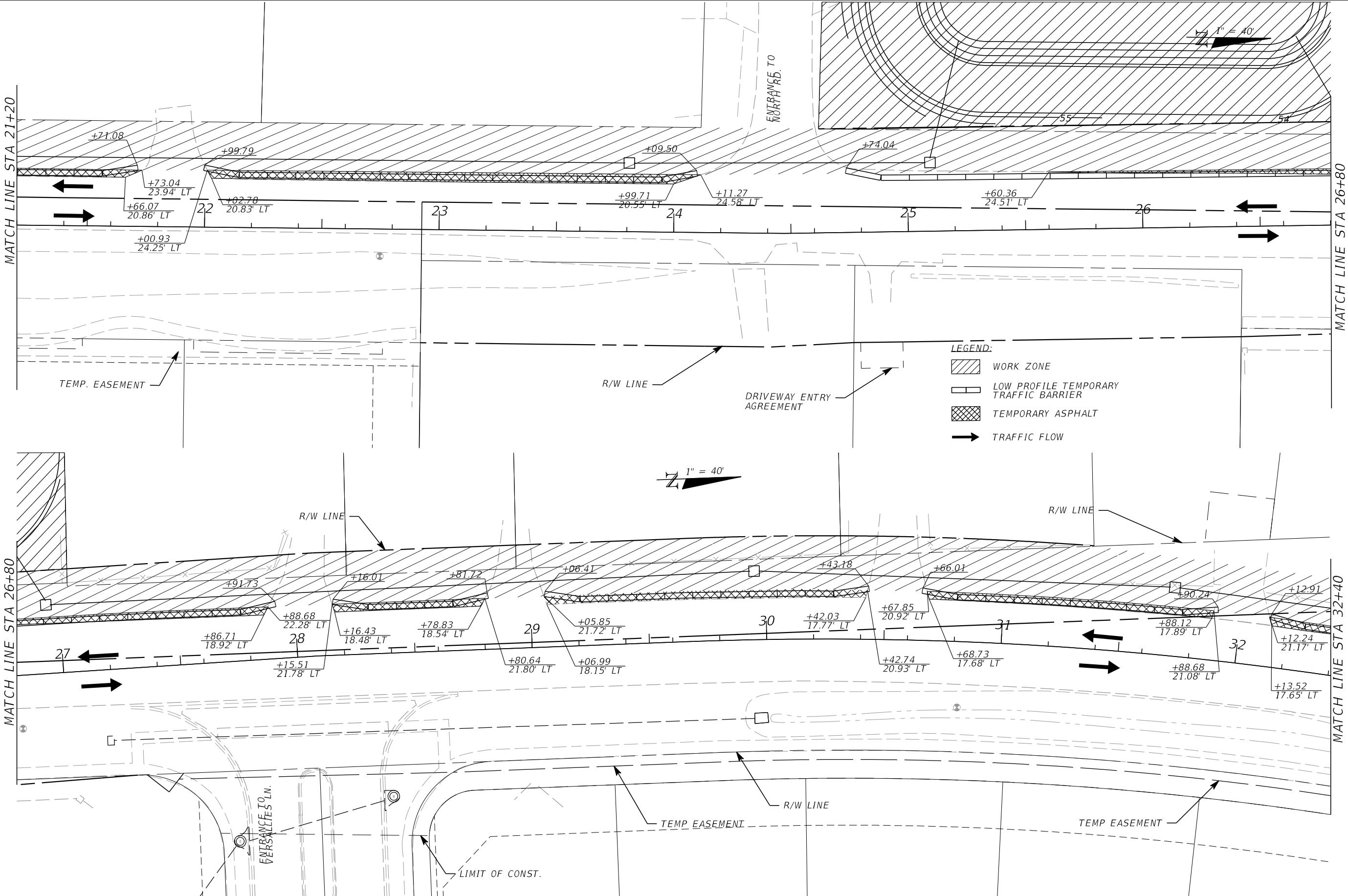
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE 1B**

SHEET NO.  
 300

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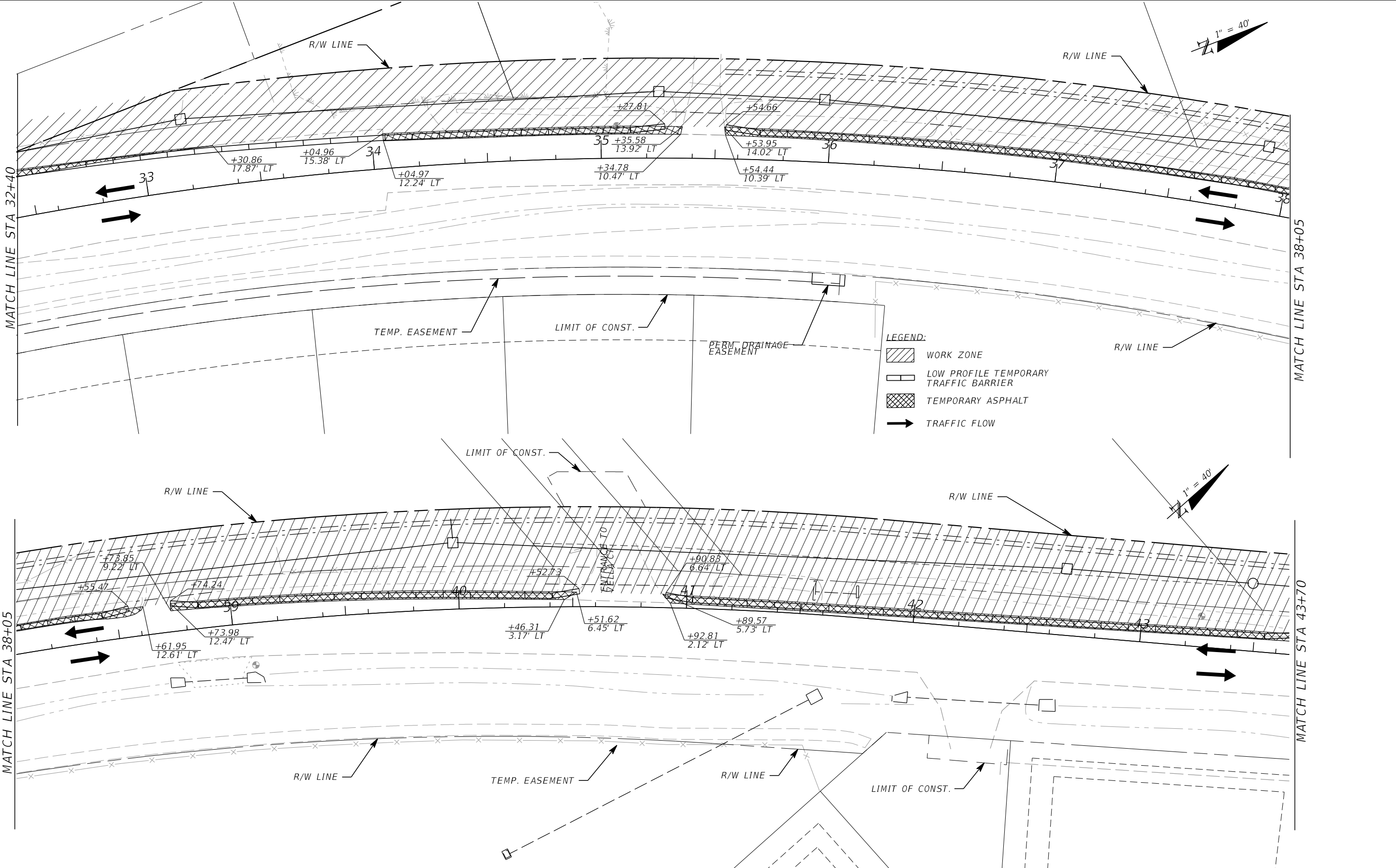
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE 1B**

SHEET NO.  
**301**



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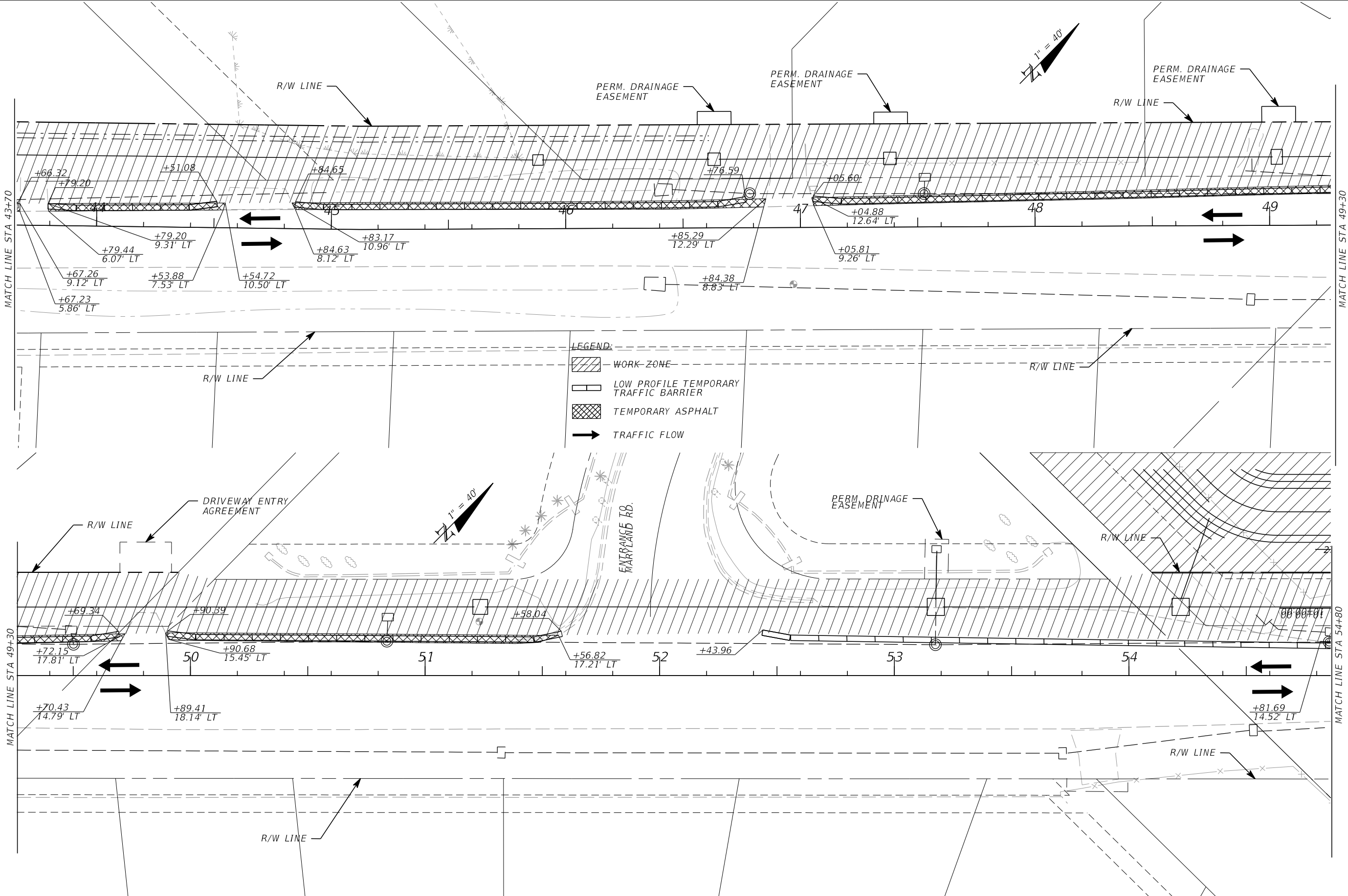
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE 1B**

SHEET NO.  
 302

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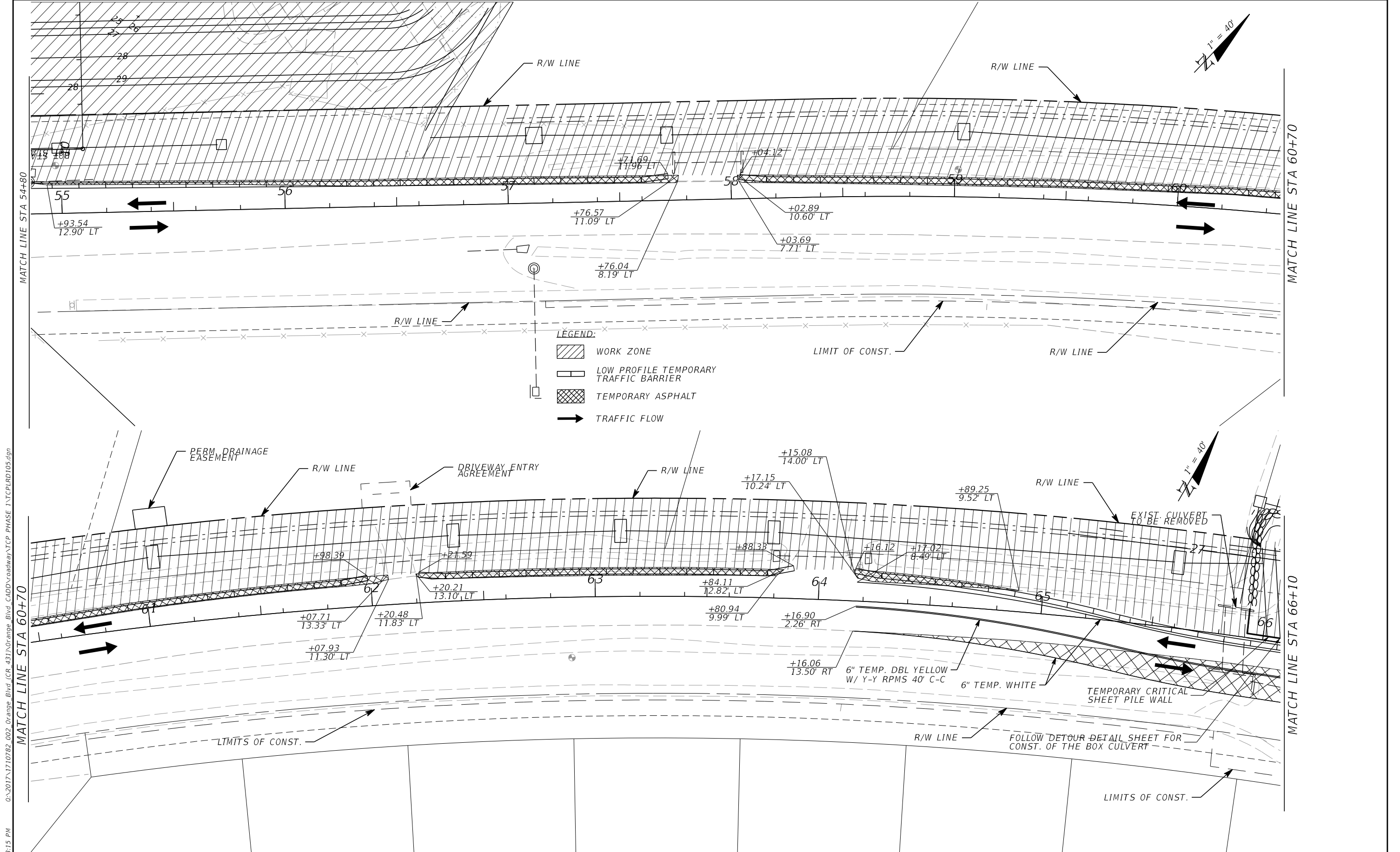
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DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE IB**

SHEET NO.  
303



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REVISIONS			
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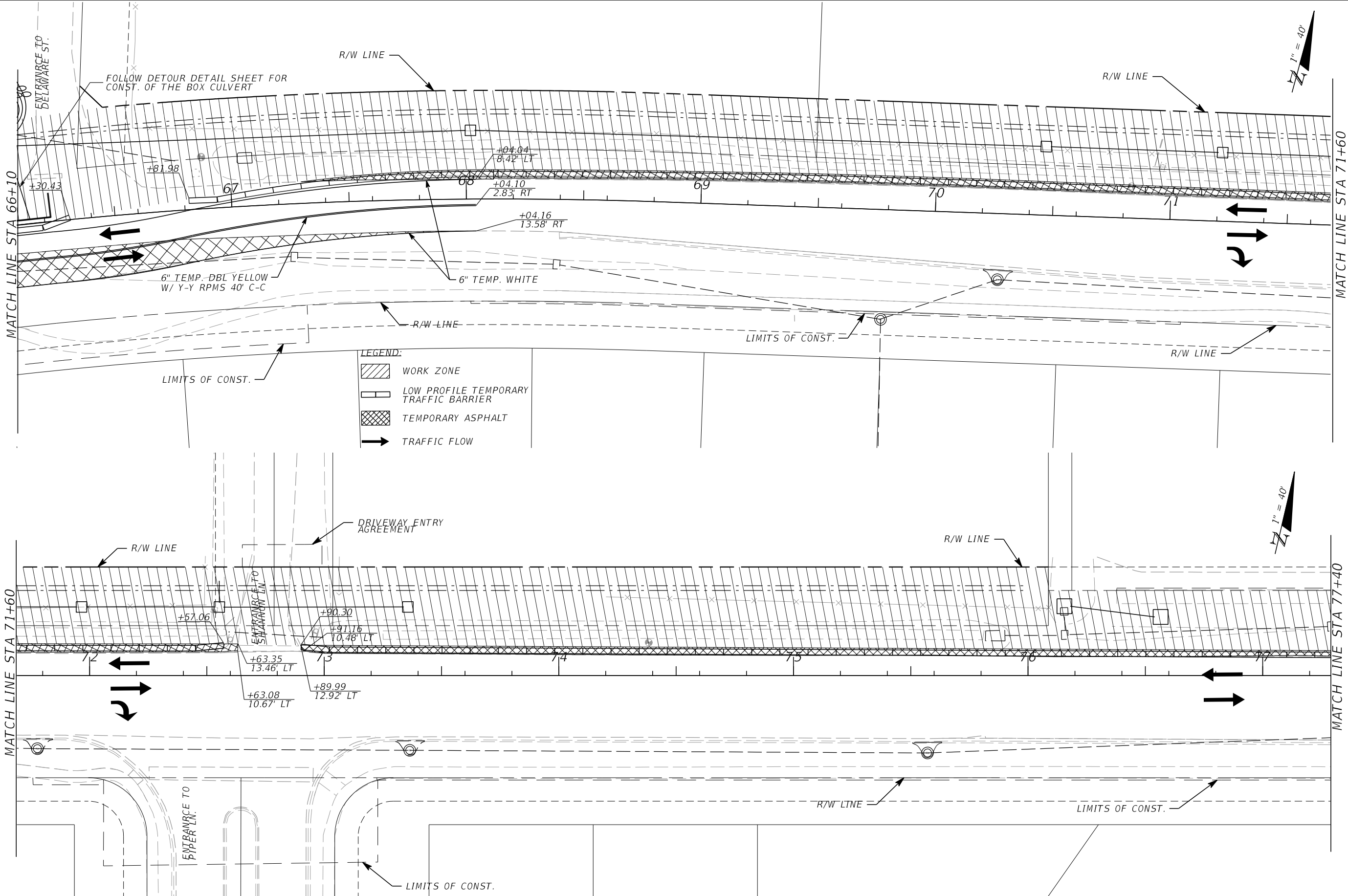
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN**  
**PHASE 1B**

SHEET NO.  
**304**

10/10/2022 3:58:18 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCP\_PHASE\_1\TCPPLRD106.dgn



**LEGEND:**

- WORK ZONE
- LOW PROFILE TEMPORARY TRAFFIC BARRIER
- TEMPORARY ASPHALT
- TRAFFIC FLOW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
<b>PRELIMINARY NOT FOR CONSTRUCTION</b>			

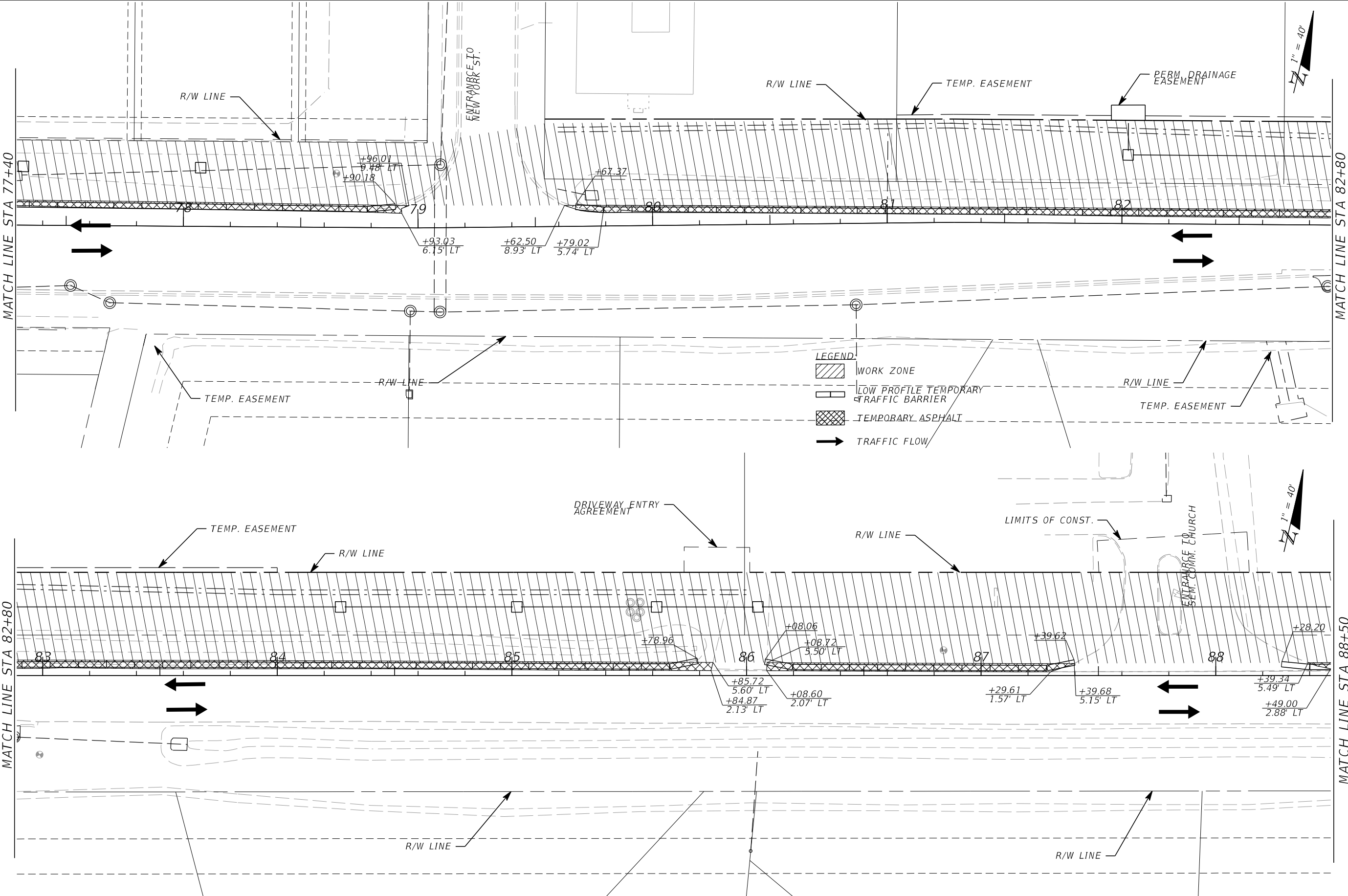
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE 1B**

SHEET NO.  
**305**

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

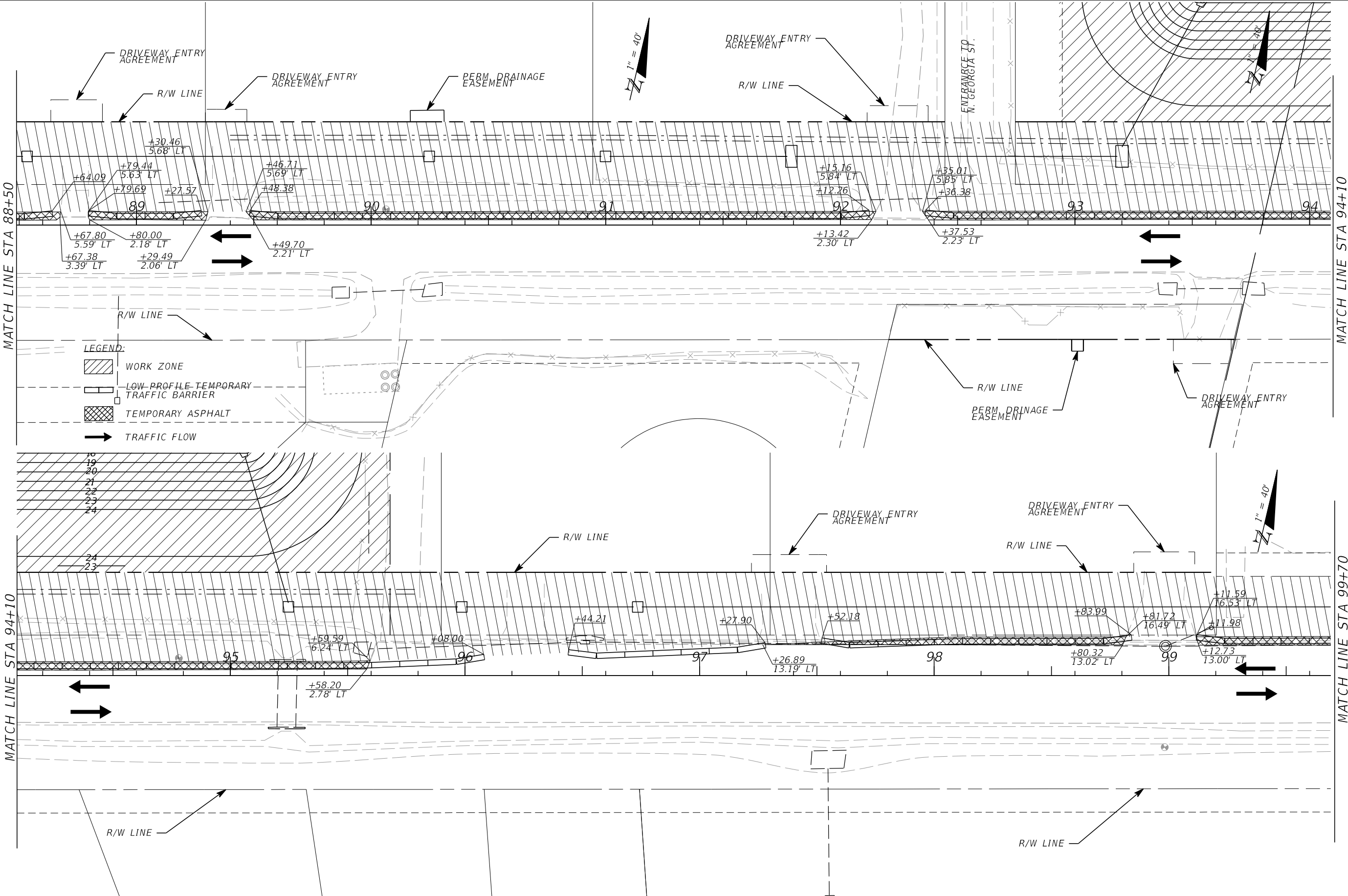
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE 1B**

SHEET NO.  
**306**



10/10/2022 3:58:24 PM 0:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCP\_PHASE\_1\TCPPLRD108.dgn



- LEGEND:**
- WORK ZONE
  - LOW-PROFILE TEMPORARY TRAFFIC BARRIER
  - TEMPORARY ASPHALT
  - TRAFFIC FLOW

MATCH LINE STA 88+50

MATCH LINE STA 94+10

MATCH LINE STA 94+10

MATCH LINE STA 99+70

N. GEORGIA ST.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

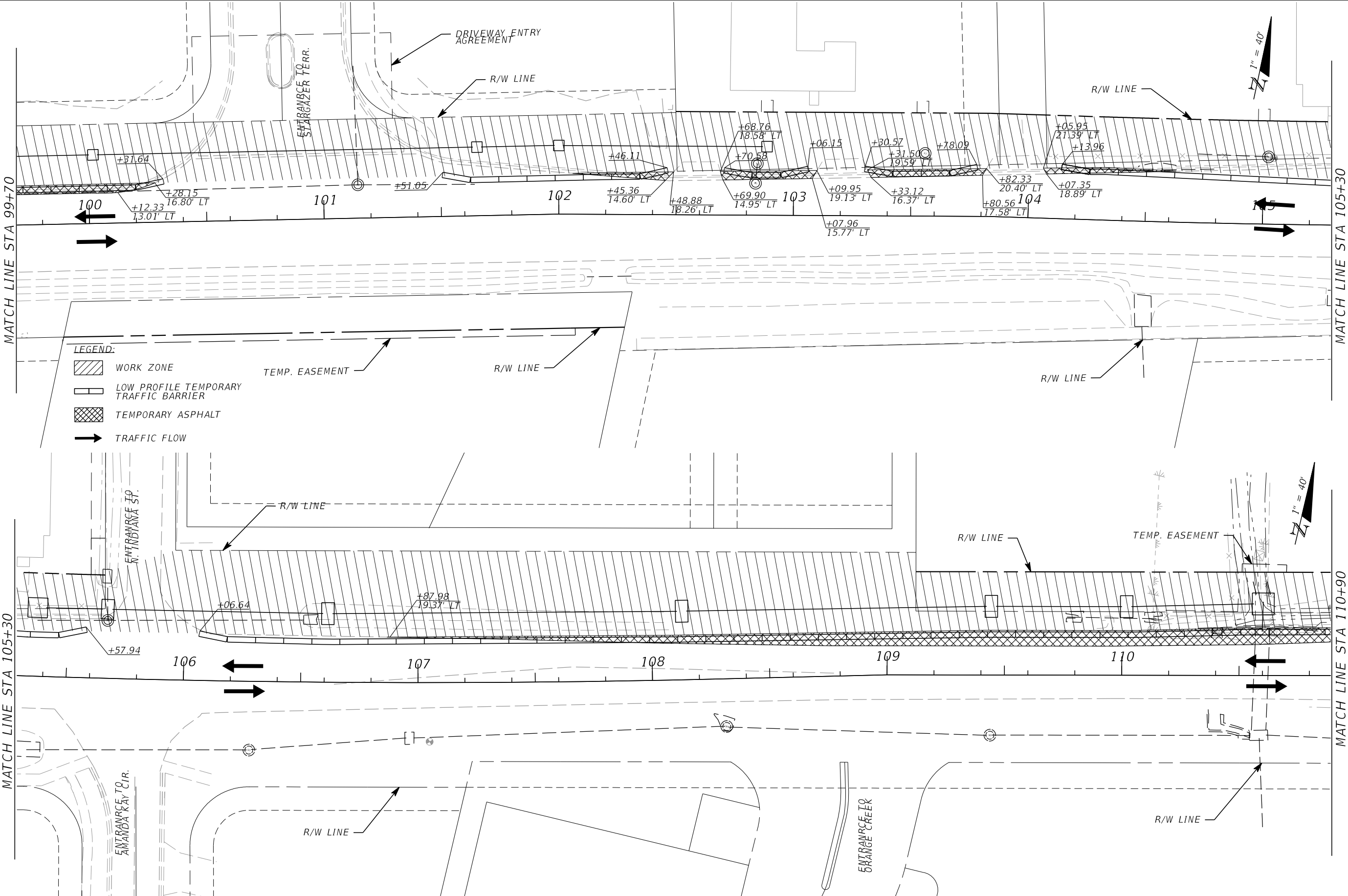
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE 1B**

SHEET NO.  
 307

10/10/2022 3:58:27 PM G:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\TCP\_PHASE\_1\TCPPLRD109.dgn



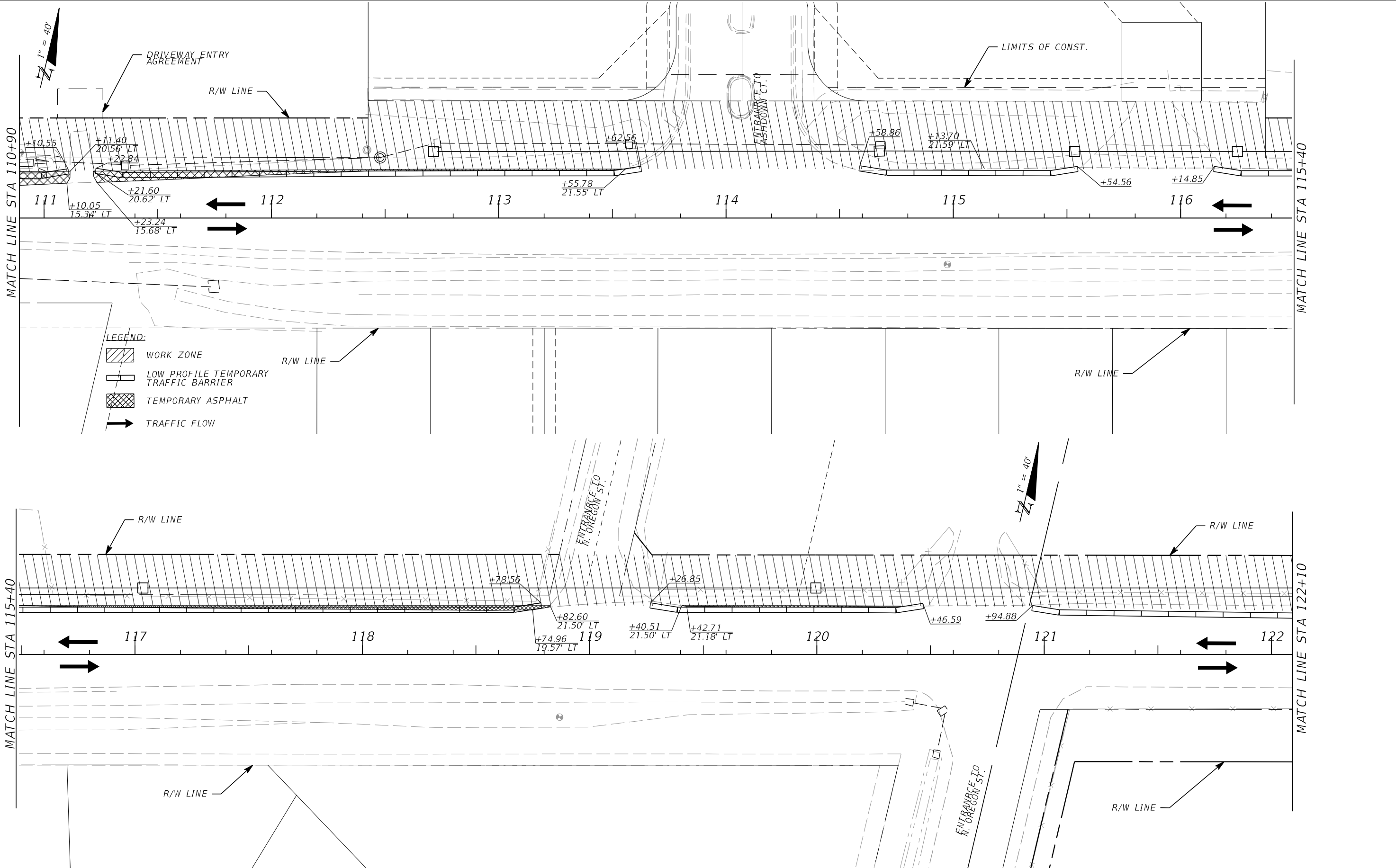
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE 1B**

SHEET NO.  
**308**



10/10/2022 3:58:30 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCP\_PHASE\_1\TCPPLRD1010.dgn

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

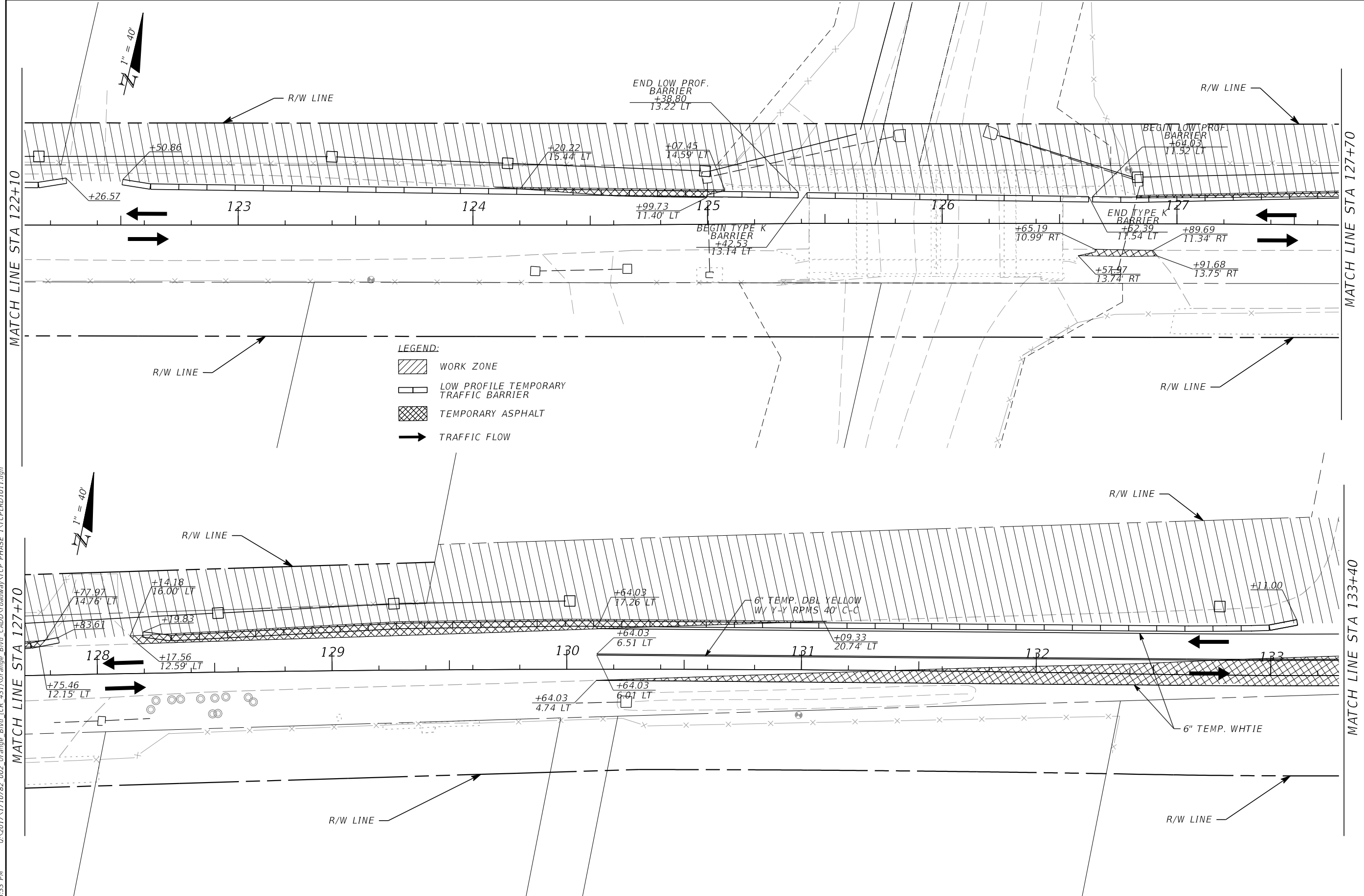
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE 1B**

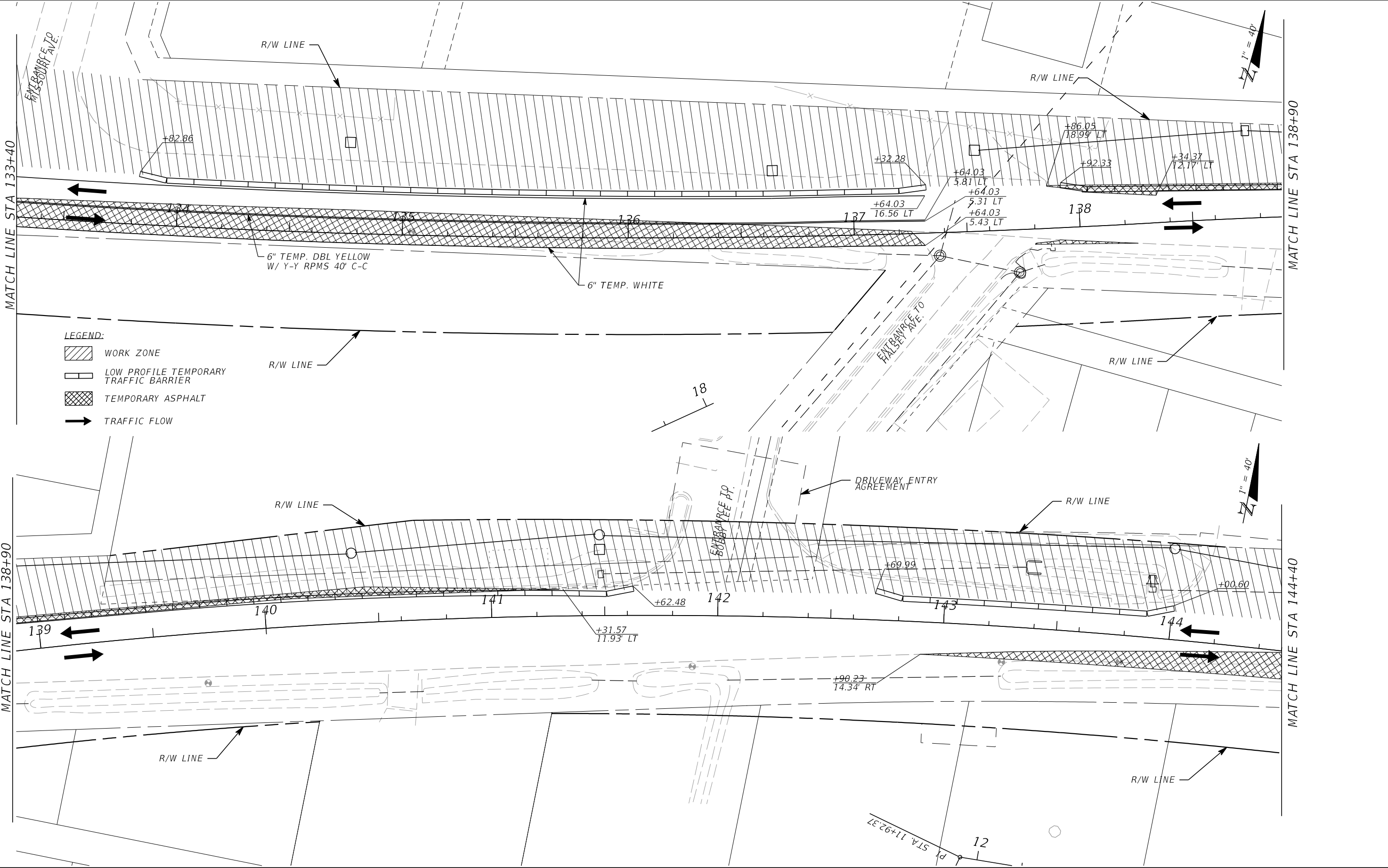
SHEET NO.  
**309**

10/10/2022 3:58:33 PM 0:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\TCP\_PHASE\_1\TCP\PLRD1011.dgn



REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			TCP PLAN PHASE 1B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		310
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303			

10/10/2022 3:58:35 PM Q:\2017\1710782\_002\_Orange\_Bldv\_(CR\_431)\Orange\_Bldv\_CADD\roadway\TCP\_PHASE\_1\TCPLRD1012.dgn



- LEGEND:**
- WORK ZONE
  - LOW PROFILE TEMPORARY TRAFFIC BARRIER
  - TEMPORARY ASPHALT
  - TRAFFIC FLOW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>		

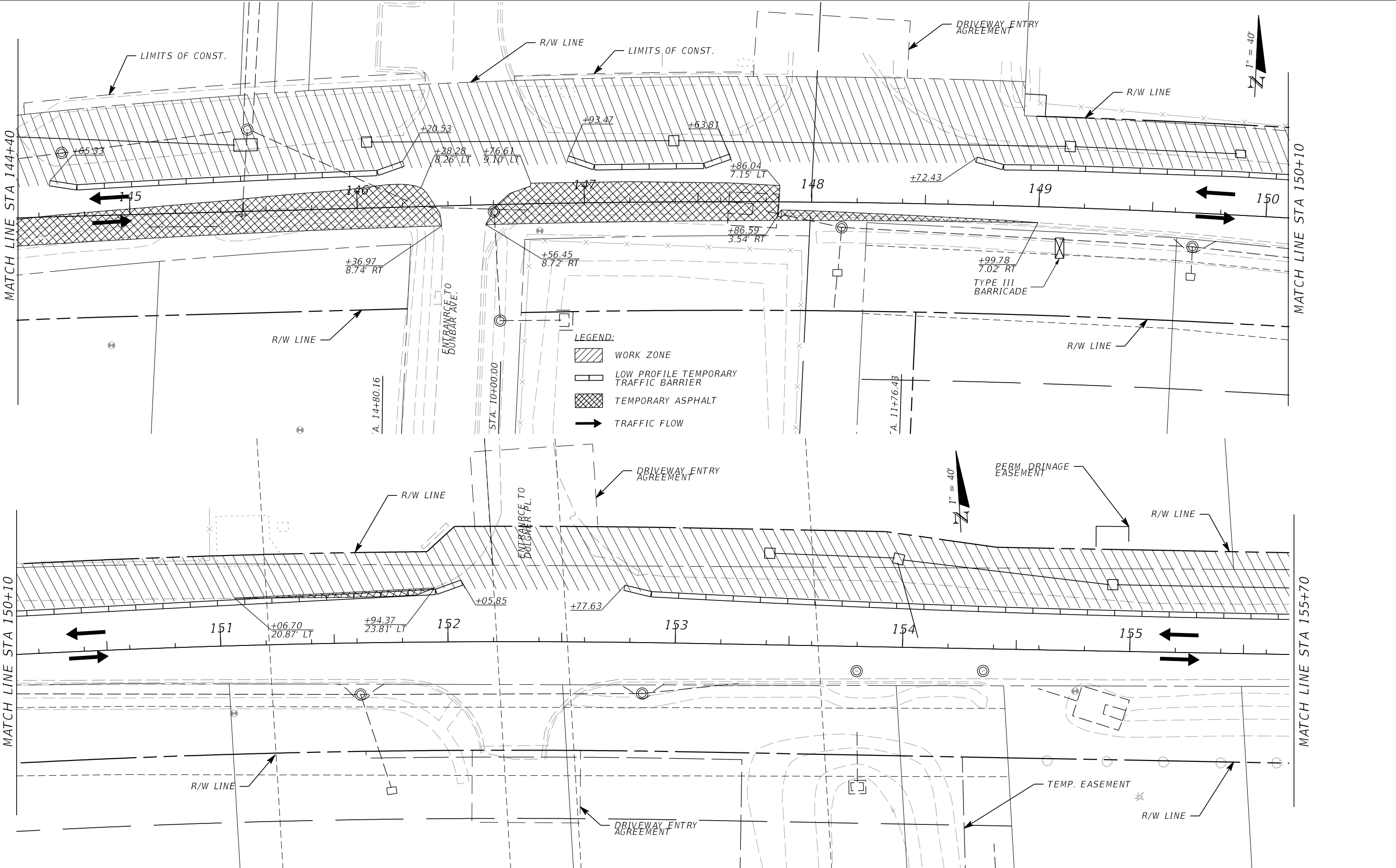
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE 1B**

SHEET NO.  
**311**

10/10/2022 3:58:38 PM Q:\2017\1710782\_002\_Orange\_Bldv\_(CR\_431)\Orange\_Bldv\_CADD\roadway\TCP\_PHASE\_1\TCPPLRD1013.dgn



- LEGEND:**
- WORK ZONE
  - LOW PROFILE TEMPORARY TRAFFIC BARRIER
  - TEMPORARY ASPHALT
  - TRAFFIC FLOW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

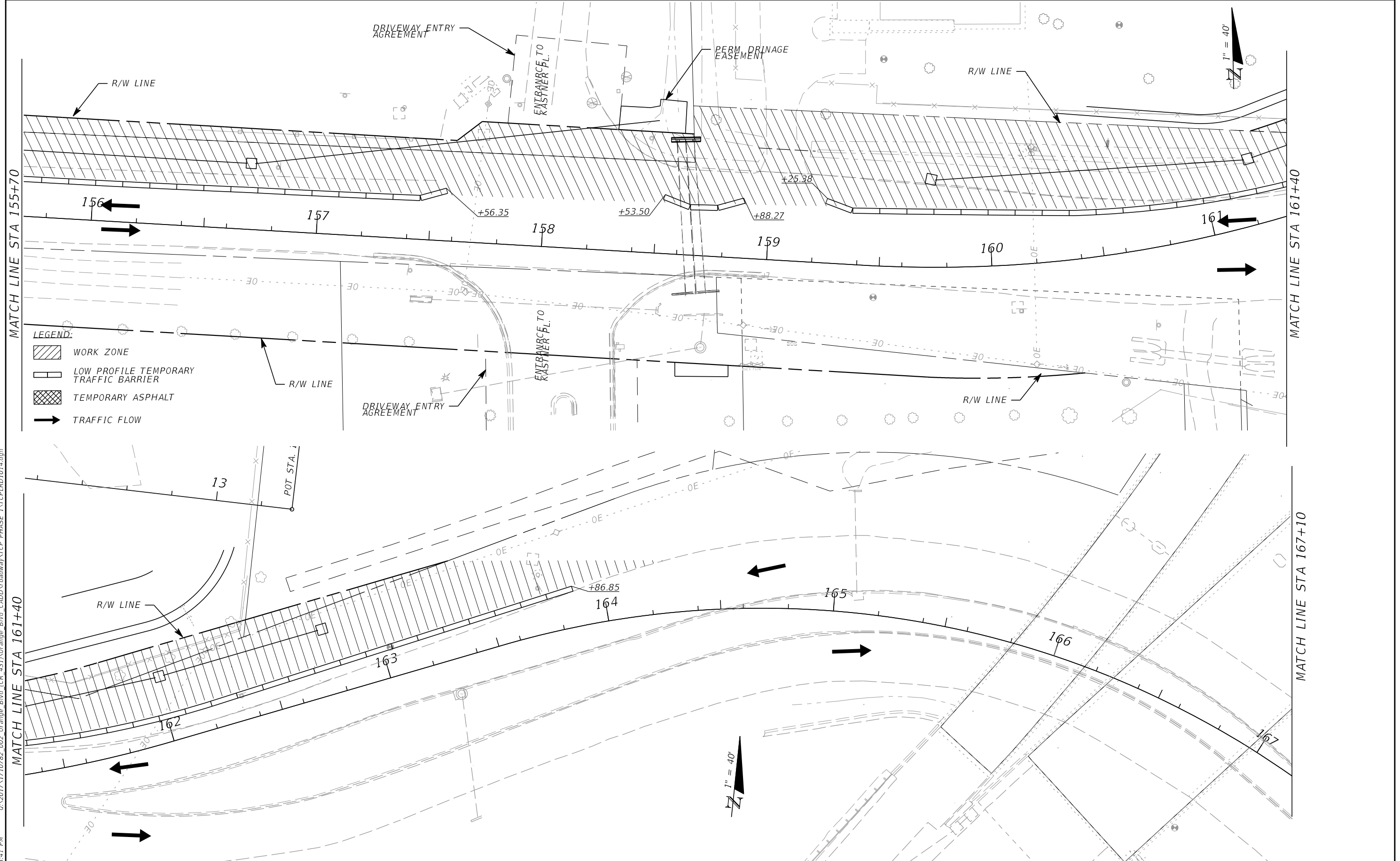
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE 1B**

SHEET NO.  
 312

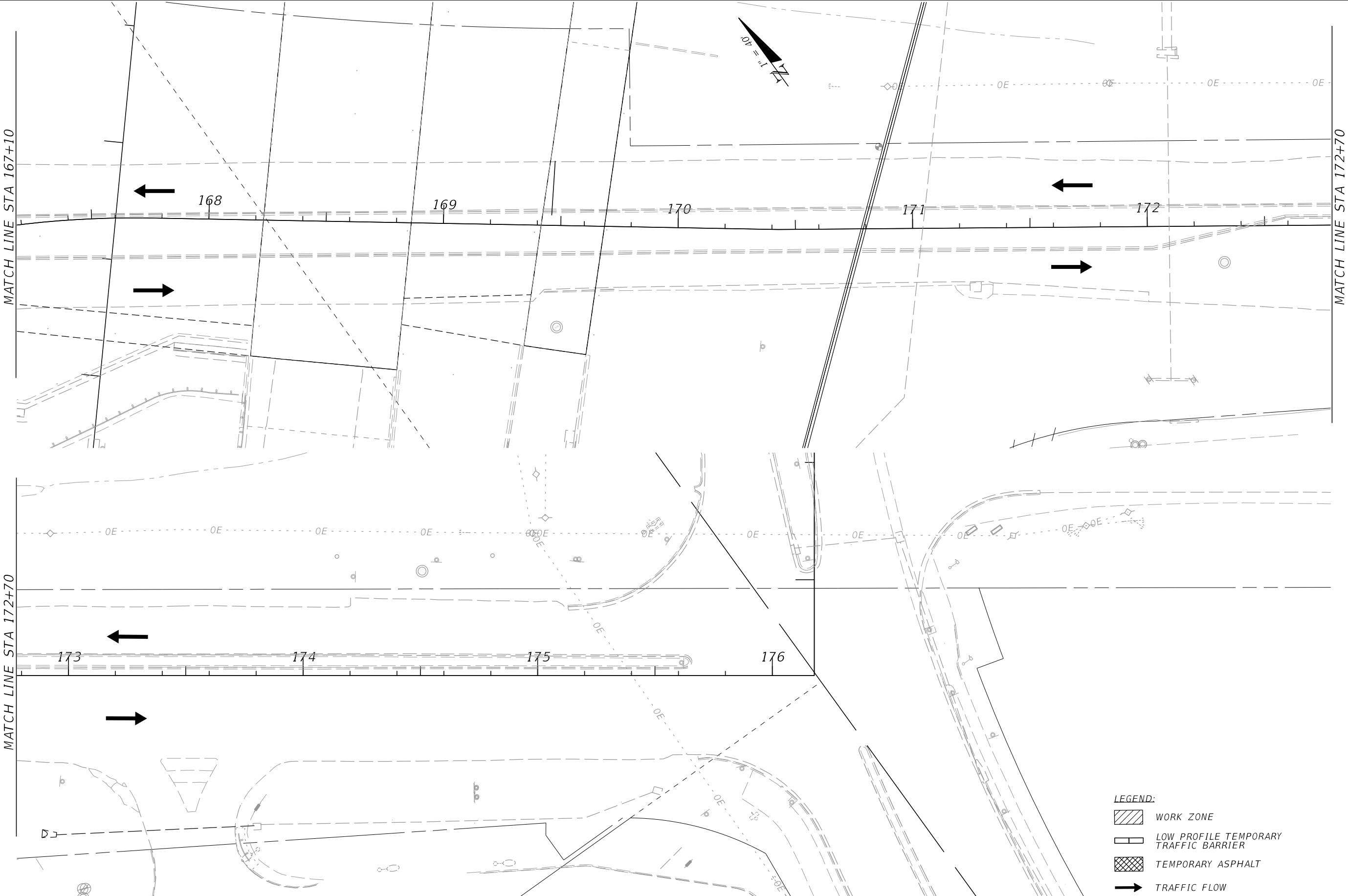
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





REVISIONS				SEMINOLE COUNTY PUBLIC WORKS			TCP PLAN PHASE IB	SHEET NO. 313
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

10/10/2022 3:58:44 PM Q:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\TCP\_PHASE\_1\TCPLRD1015.dgn



- LEGEND:**
-  WORK ZONE
  -  LOW PROFILE TEMPORARY TRAFFIC BARRIER
  -  TEMPORARY ASPHALT
  -  TRAFFIC FLOW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

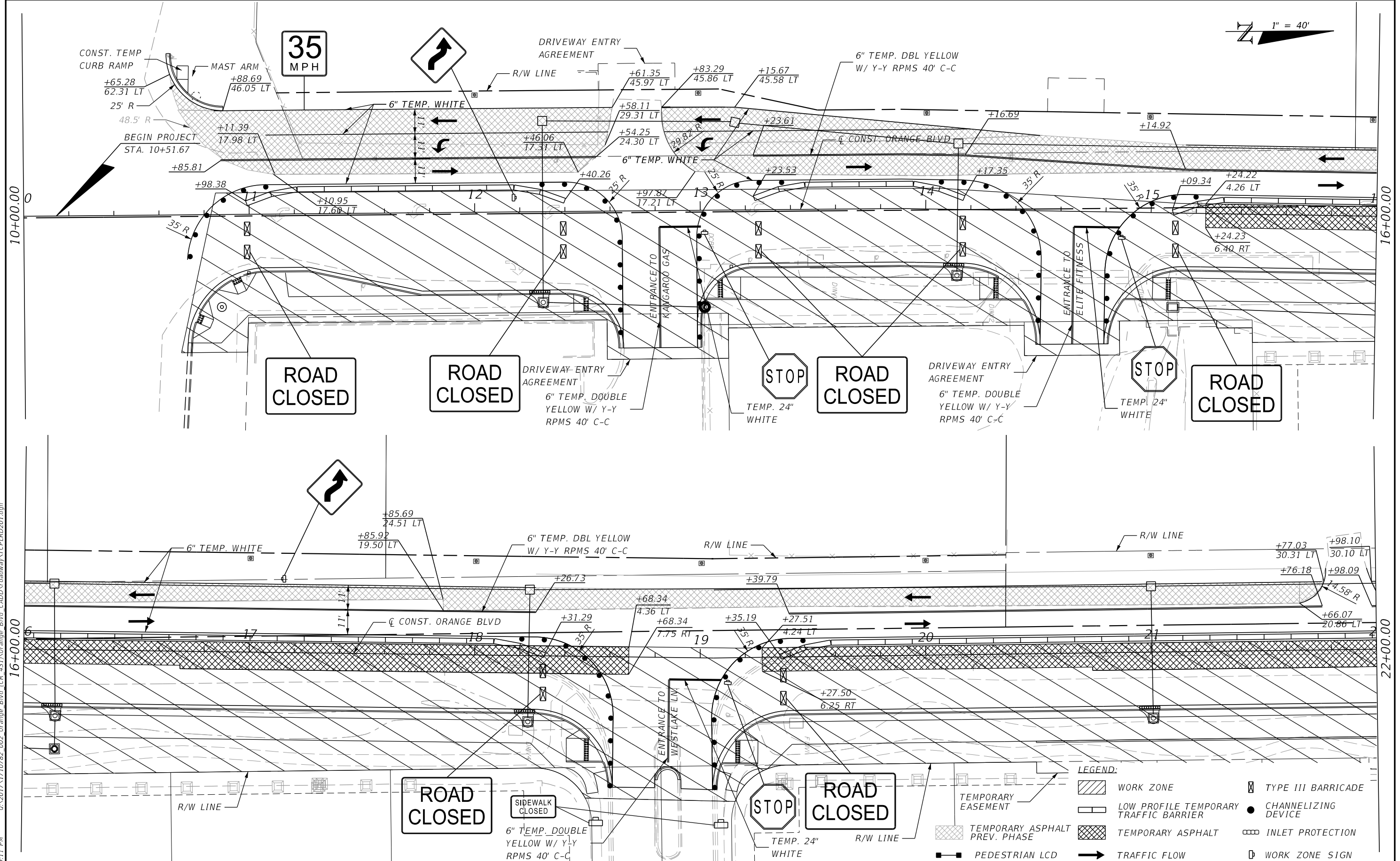
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE 1B**

SHEET NO.  
**314**





10/10/2022 3:59:11 PM Q:\2017\1710782\_002\_Orange\_Bld\_(CR\_431)\Orange\_Bld\_CADD\roadway\TCPLRD201.dgn

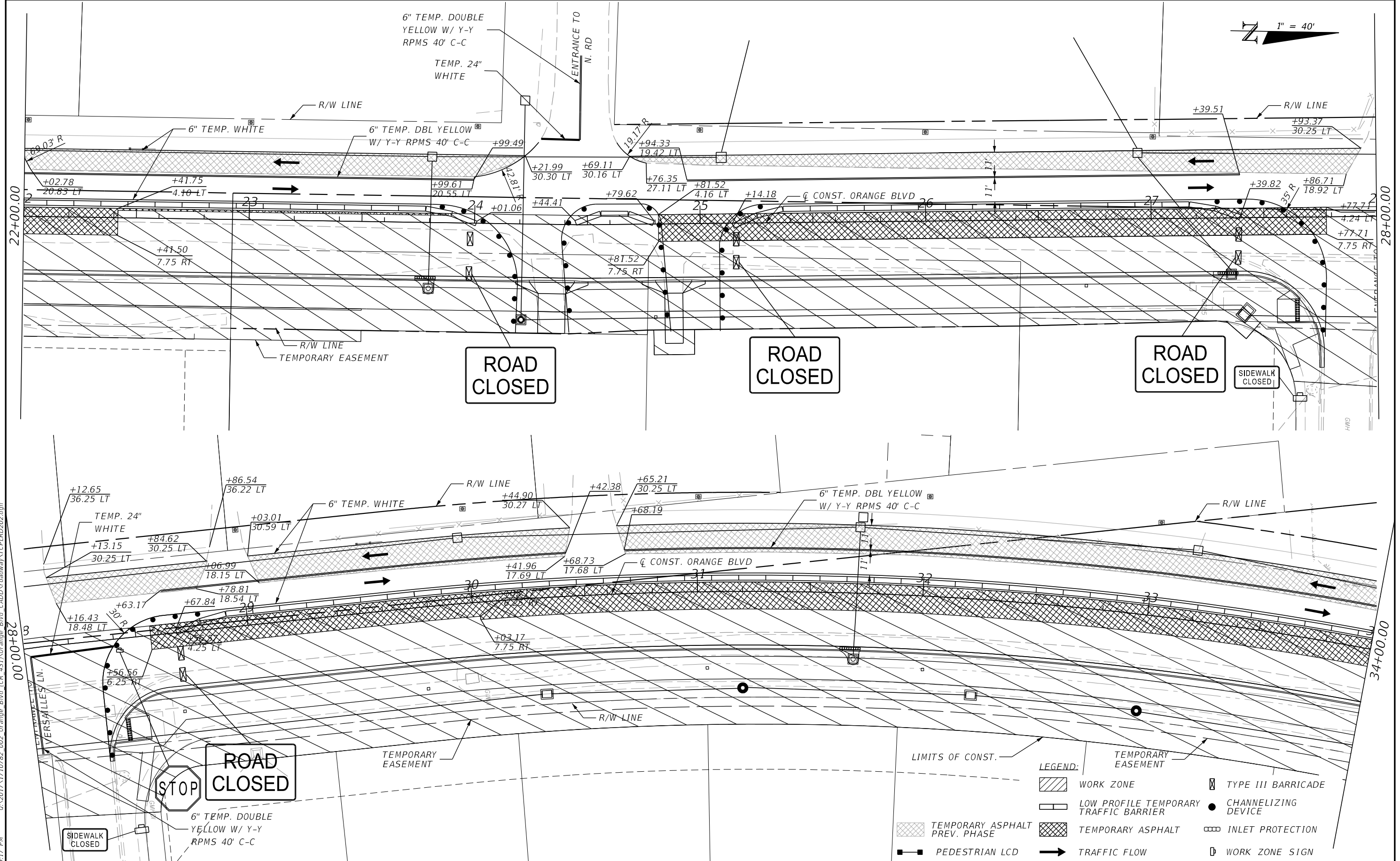
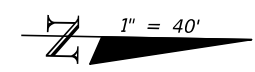
- LEGEND:**
- WORK ZONE
  - LOW PROFILE TEMPORARY TRAFFIC BARRIER
  - TEMPORARY ASPHALT
  - TYPE III BARRICADE
  - CHANNELIZING DEVICE
  - INLET PROTECTION
  - WORK ZONE SIGN
  - TEMPORARY ASPHALT PREV. PHASE
  - TRAFFIC FLOW
  - PEDESTRIAN LCD

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<p><b>TCP PLAN</b> <b>PHASE II</b></p>	<p>SHEET NO. <b>315</b></p>
--	---------------------------------



**STOP**  
**ROAD CLOSED**

**ROAD CLOSED**

**ROAD CLOSED**

**ROAD CLOSED**

**SIDEWALK CLOSED**

- LEGEND:**
- WORK ZONE
  - LIMITS OF CONST.
  - TEMPORARY ASPHALT PREV. PHASE
  - TEMPORARY ASPHALT
  - PEDESTRIAN LCD
  - LOW PROFILE TEMPORARY TRAFFIC BARRIER
  - TEMPORARY ASPHALT
  - TRAFFIC FLOW
  - TYPE III BARRICADE
  - CHANNELIZING DEVICE
  - INLET PROTECTION
  - WORK ZONE SIGN

10/10/2022 3:59:17 PM Q:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\TCPLRD202.dgn

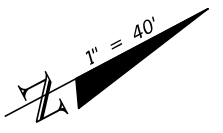
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

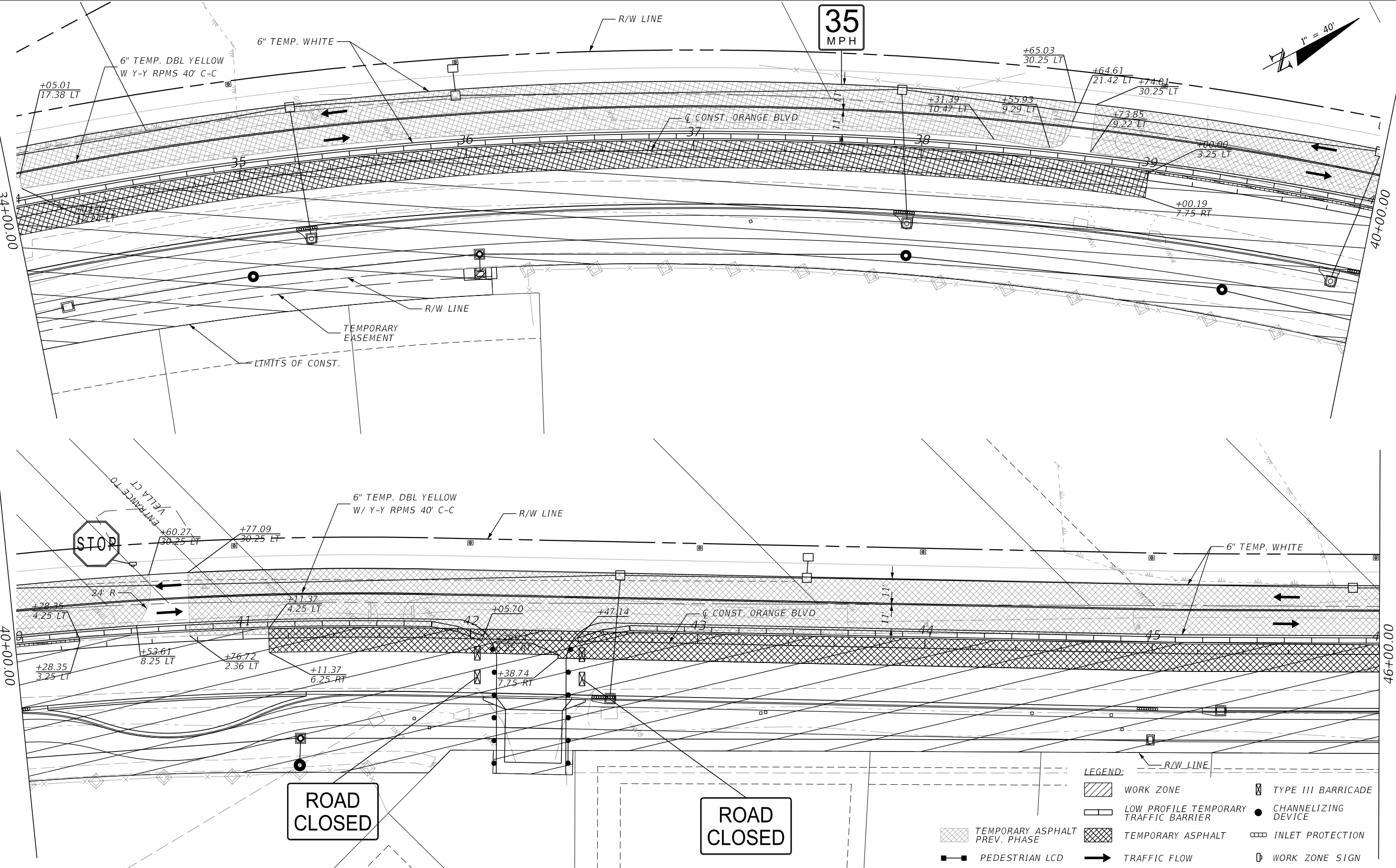
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE II**

SHEET NO.  
**316**



35  
MPH



LEGEND:

	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT PREV. PHASE		INLET PROTECTION
	PEDESTRIAN LCD		WORK ZONE SIGN
	TEMPORARY ASPHALT		
	TRAFFIC FLOW		

ROAD CLOSED

ROAD CLOSED

10/10/2022 3:59:22 PM Q:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\TCPLRD203.dgn

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

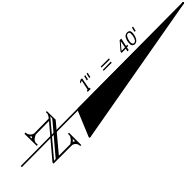
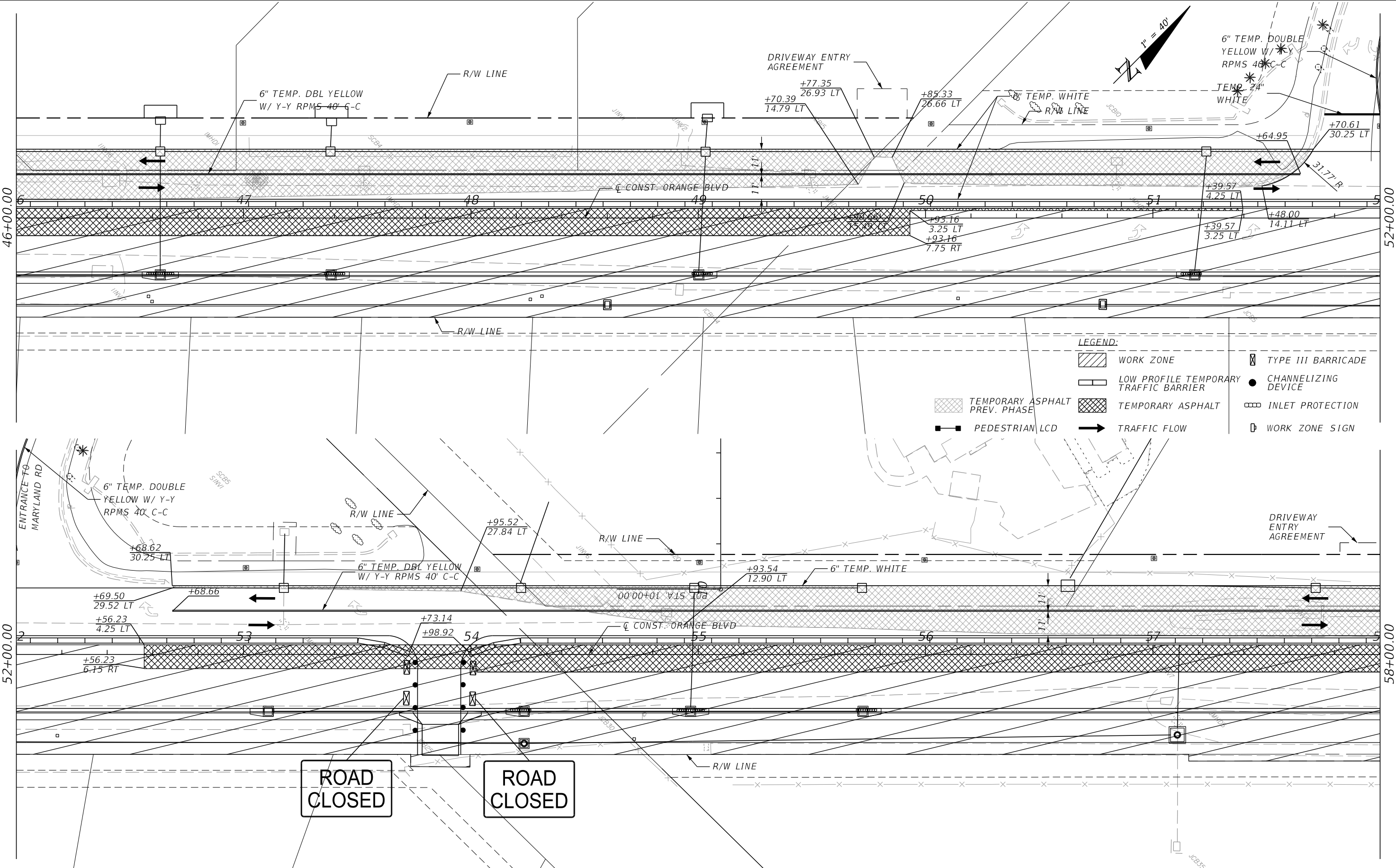
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP PLAN  
PHASE II

SHEET NO.  
317

10/10/2022 3:59:28 PM Q:\2017\1710782\_002\_Orange\_Bldg\_(CR\_431)\Orange\_Bldg\_CADD\roadway\TCPLRD204.dgn



**LEGEND:**

	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT		INLET PROTECTION
	PEDESTRIAN LCD		WORK ZONE SIGN
	TEMPORARY ASPHALT PREV. PHASE		
	TRAFFIC FLOW		

**ROAD CLOSED**

**ROAD CLOSED**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

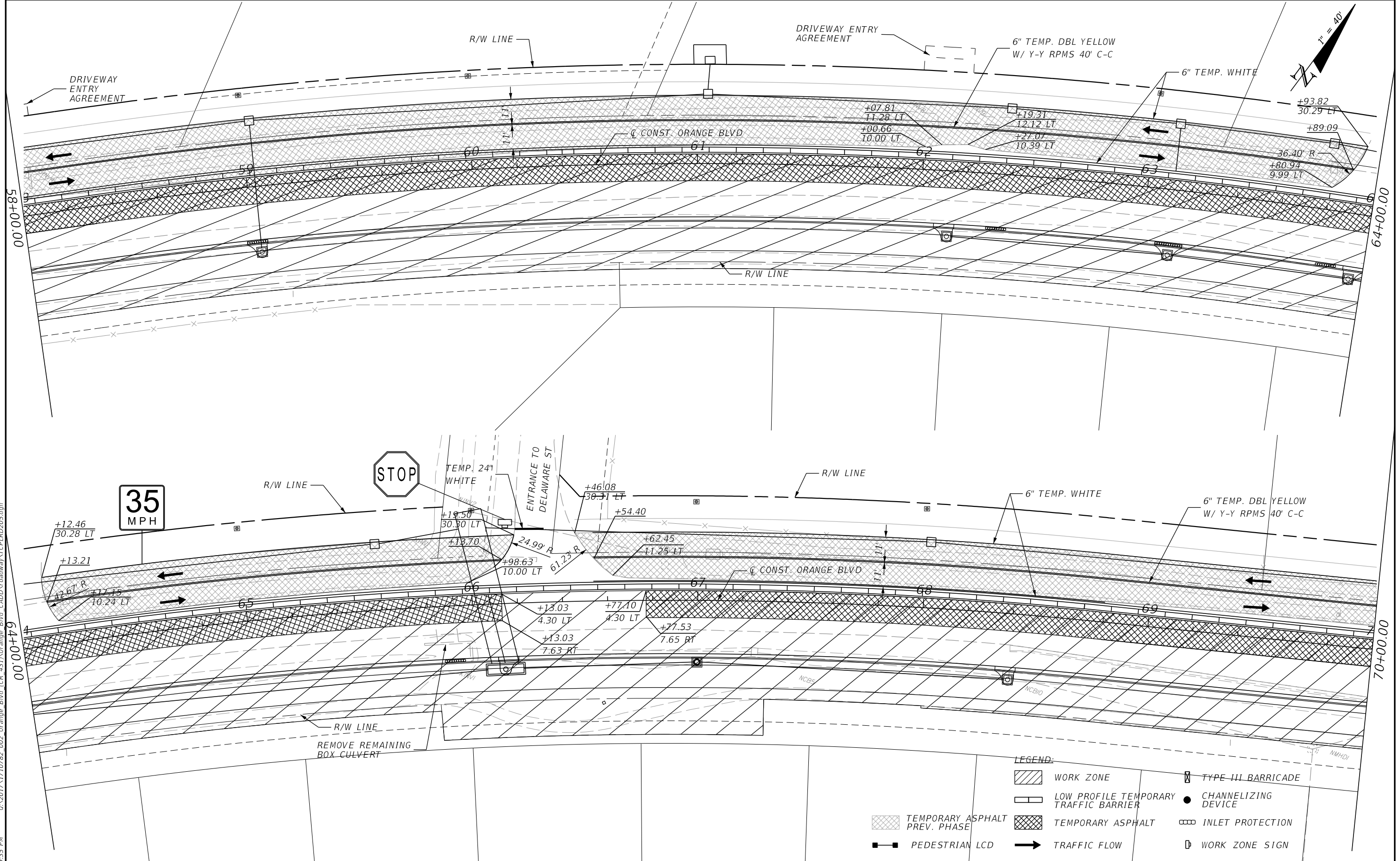
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE II**











SHEET NO.  
 318



10/10/2022 3:59:35 PM G:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\TCPLRD205.dgn



**LEGEND:**

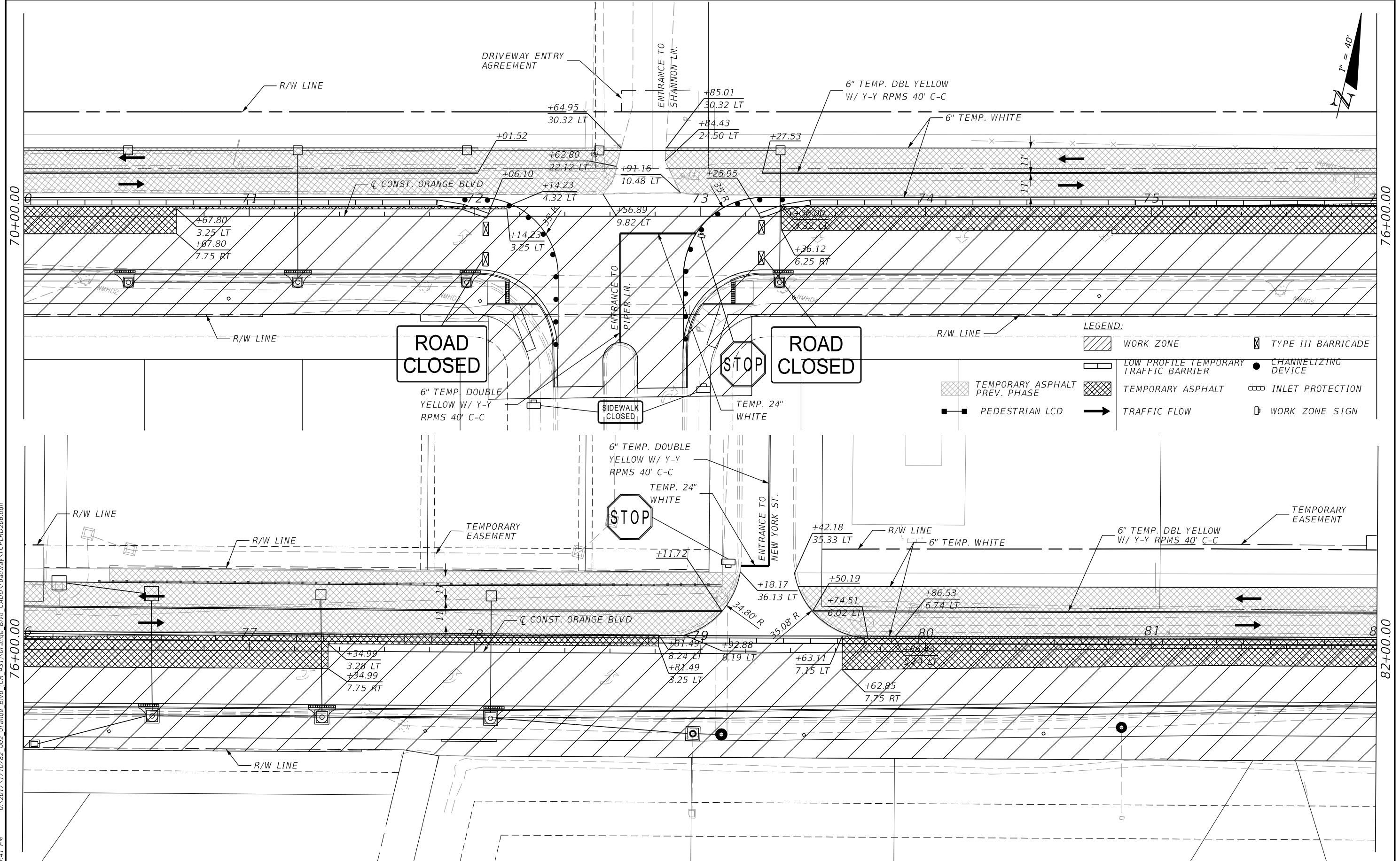
	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT		INLET PROTECTION
	TEMPORARY ASPHALT PREV. PHASE		WORK ZONE SIGN
	PEDESTRIAN LCD		TRAFFIC FLOW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<b>TCP PLAN PHASE II</b>		SHEET NO. 319
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10/10/2022 3:59:41 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD206.dgn

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

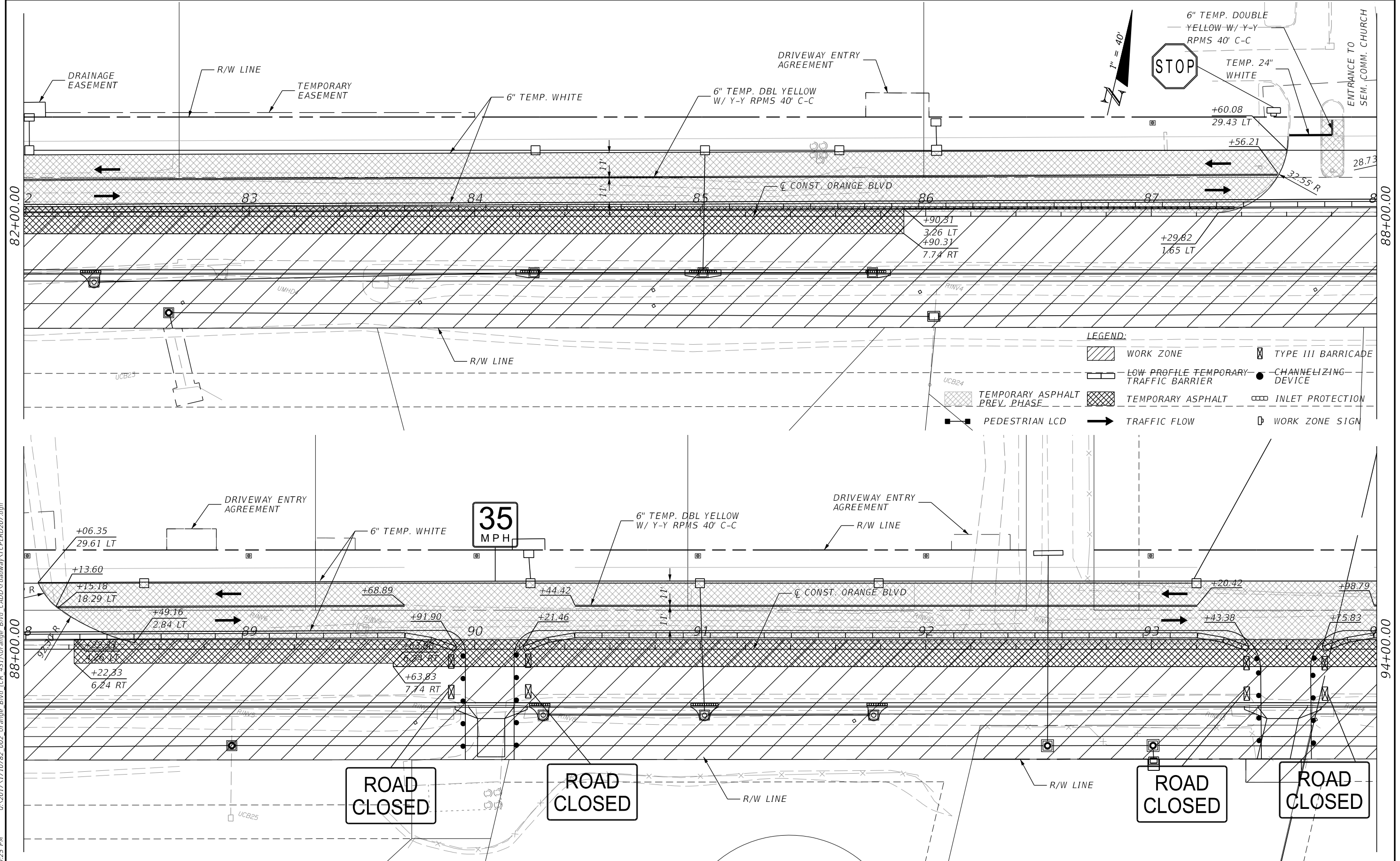
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

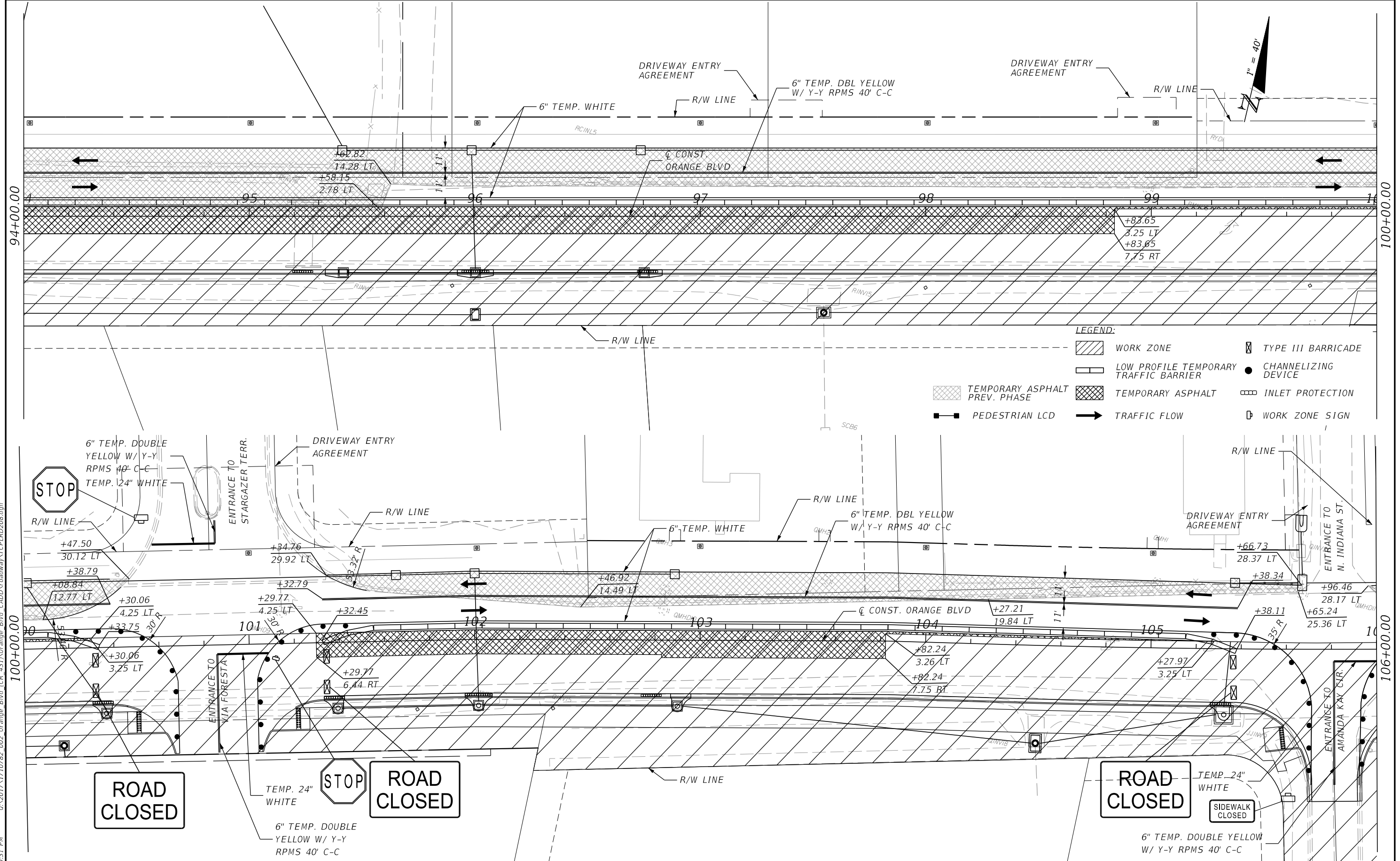
**TCP PLAN  
 PHASE II**

SHEET NO.  
 320

10/10/2022 4:00:25 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD207.dgn



REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			TCP PLAN PHASE II	SHEET NO. 321
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303			



10/10/2022 4:00:31 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD208.dgn

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

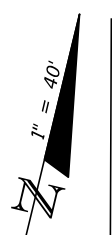
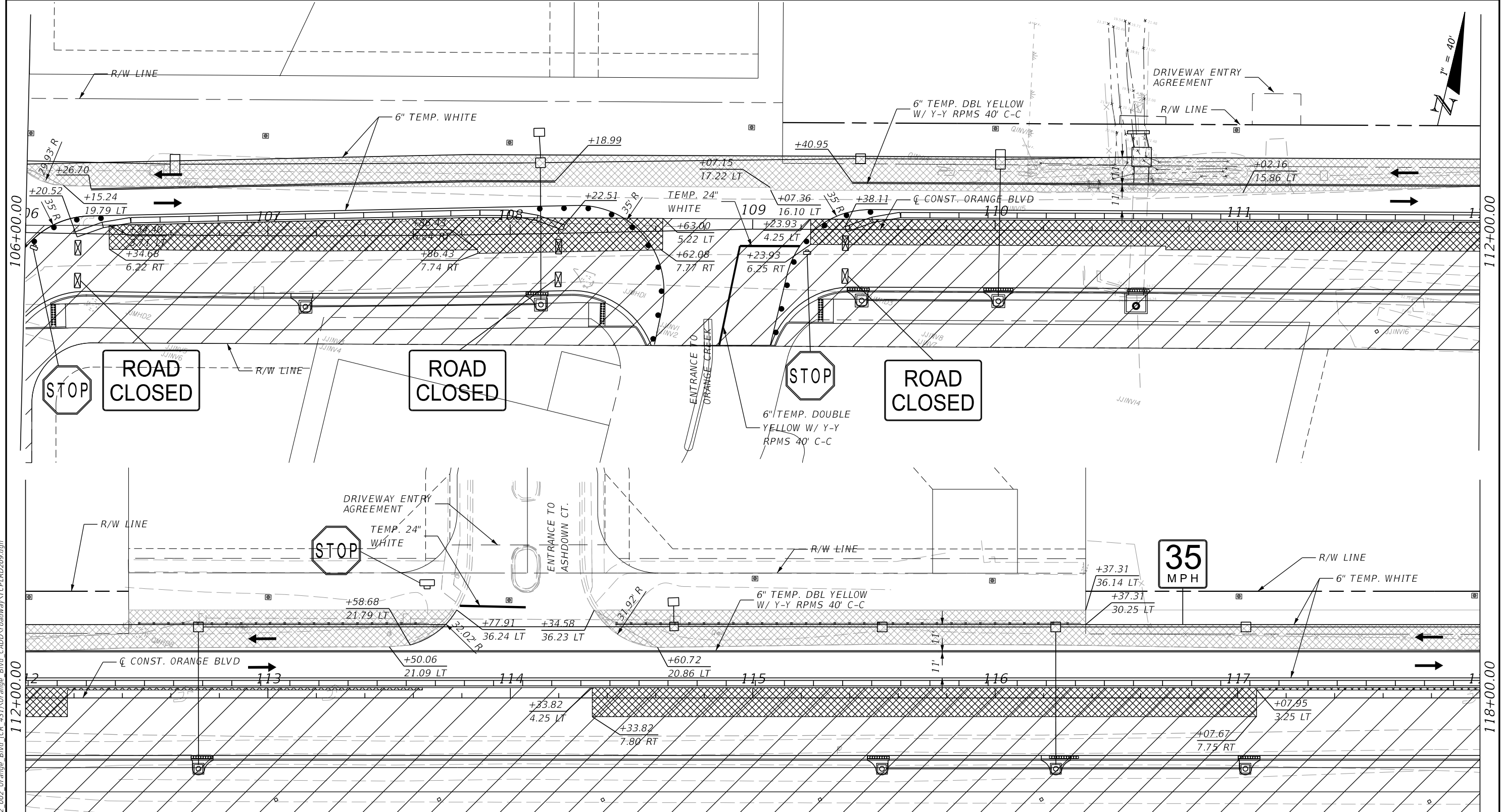
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE II**

SHEET NO.  
 322



10/10/2022 4:00:36 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD209.dgn



**LEGEND:**

	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT		INLET PROTECTION
	PEDESTRIAN LCD		WORK ZONE SIGN
	TRAFFIC FLOW		

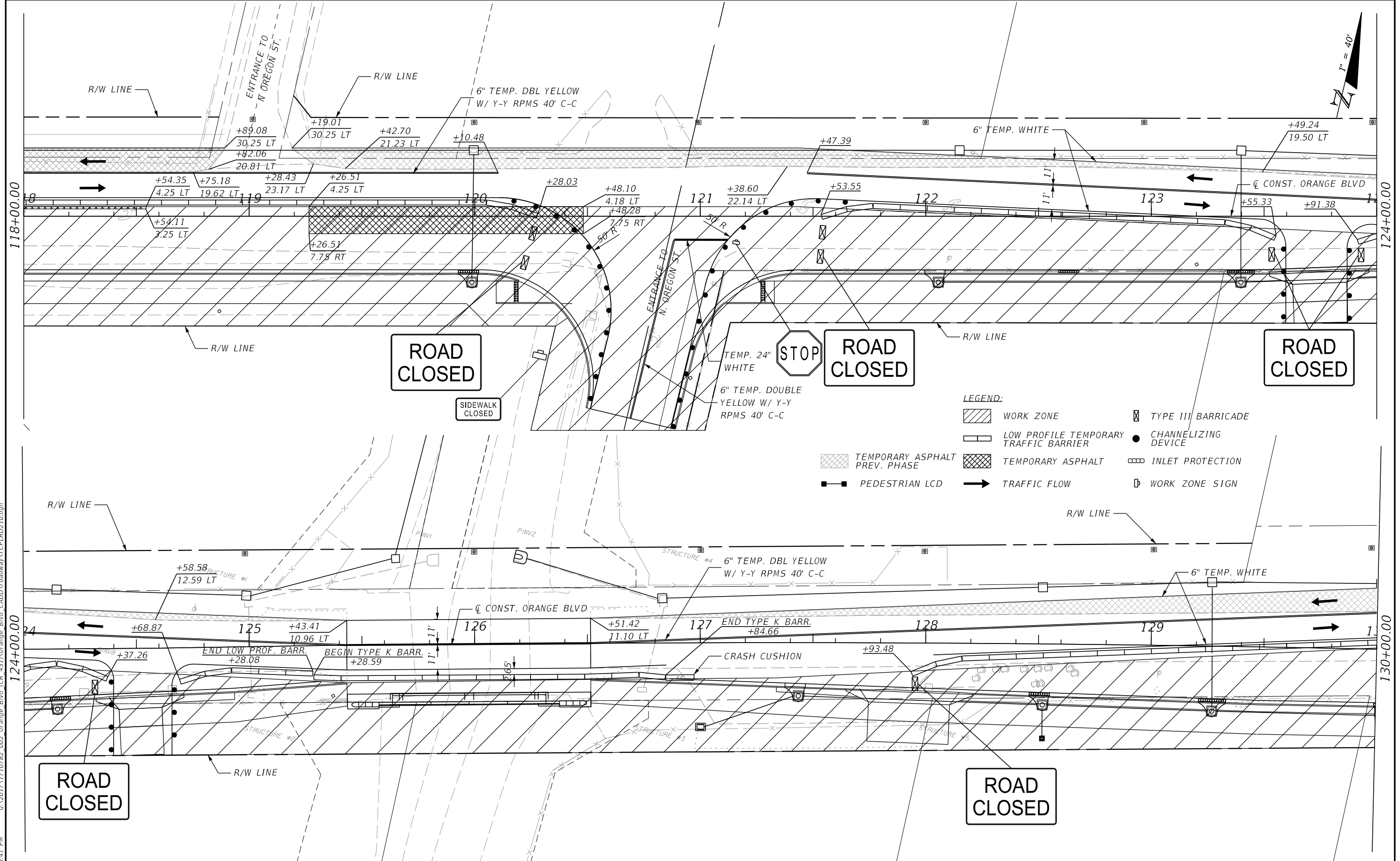
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<b>TCP PLAN PHASE II</b>		SHEET NO.  323
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10/10/2022 4:00:41 PM Q:\2017\1710782\_002\_Orange\_Bldd\_(CR\_431)\Orange\_Bldd\_CADD\roadway\TCPLRD210.dgn



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

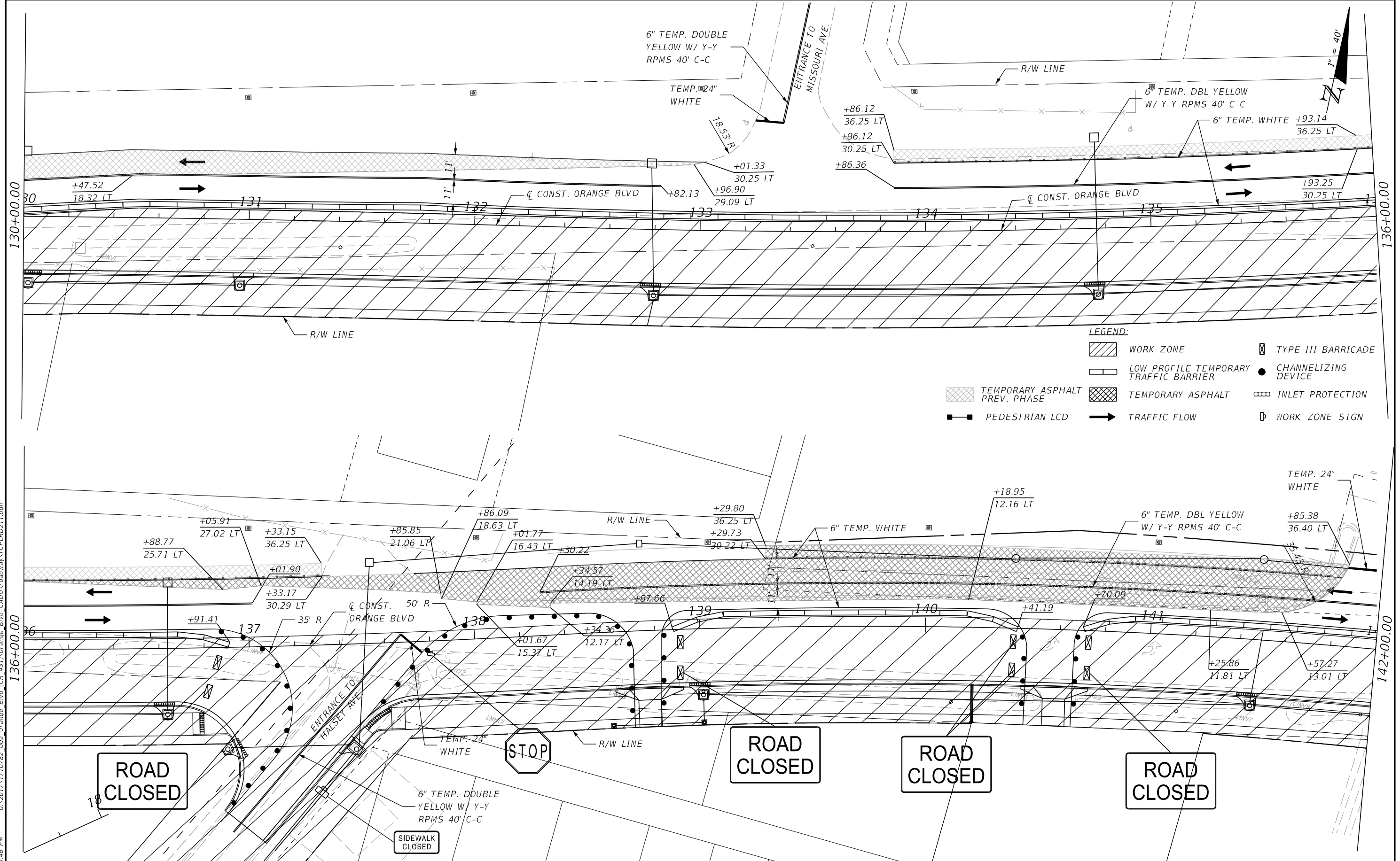
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE II**

SHEET NO.  
324

10/10/2022 4:00:46 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD211.dgn



**LEGEND:**

	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT PREV. PHASE		INLET PROTECTION
	PEDESTRIAN LCD		WORK ZONE SIGN
	TEMPORARY ASPHALT		
	TRAFFIC FLOW		

**ROAD CLOSED**

**STOP**

**ROAD CLOSED**

**ROAD CLOSED**

**ROAD CLOSED**

**SIDEWALK CLOSED**

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

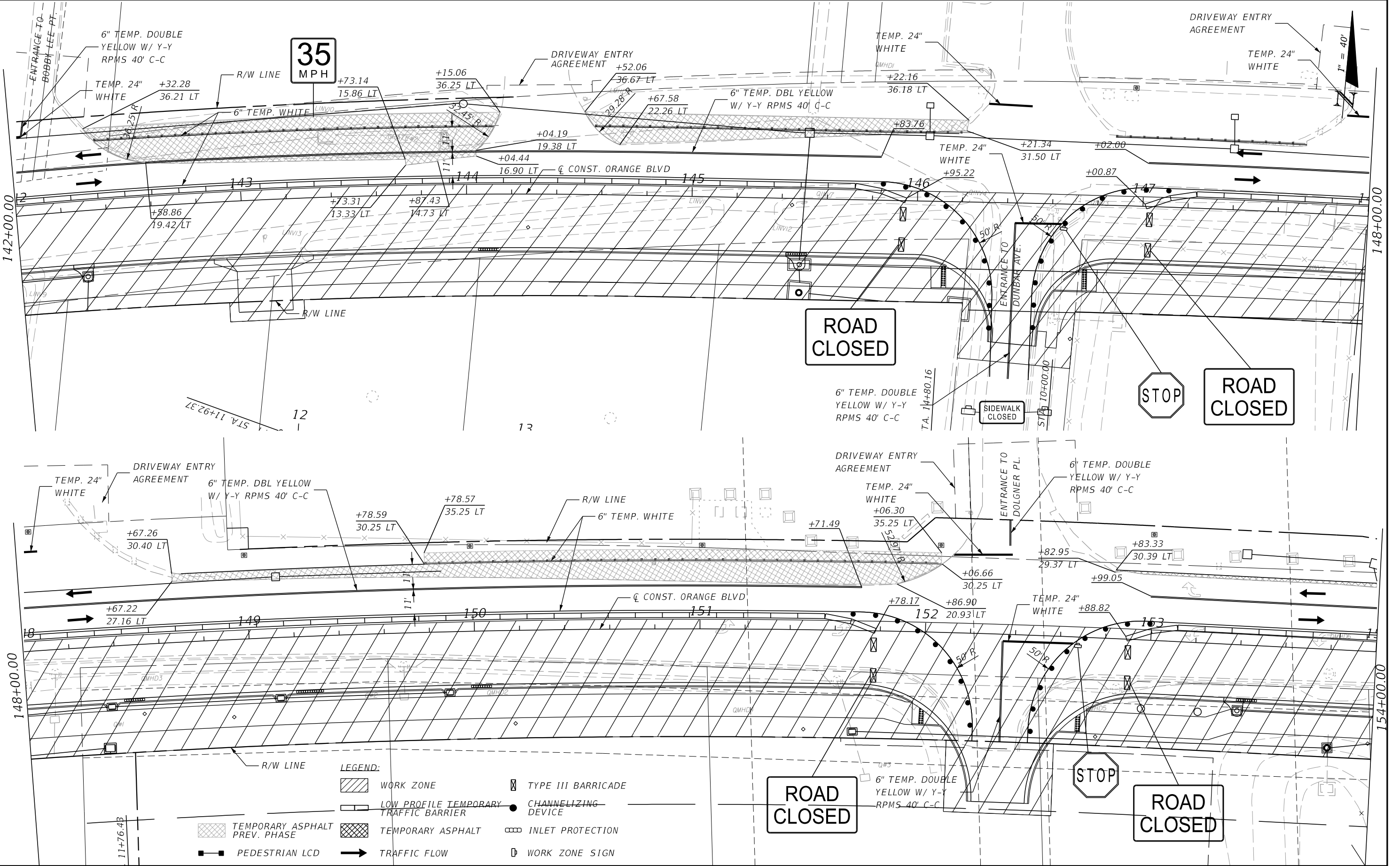
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE II**

SHEET NO.  
 325

10/10/2022 4:00:56 PM Q:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\TCPLRD212.dgn



**LEGEND:**

	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT PREV. PHASE		INLET PROTECTION
	PEDESTRIAN LCD		WORK ZONE SIGN
	TRAFFIC FLOW		

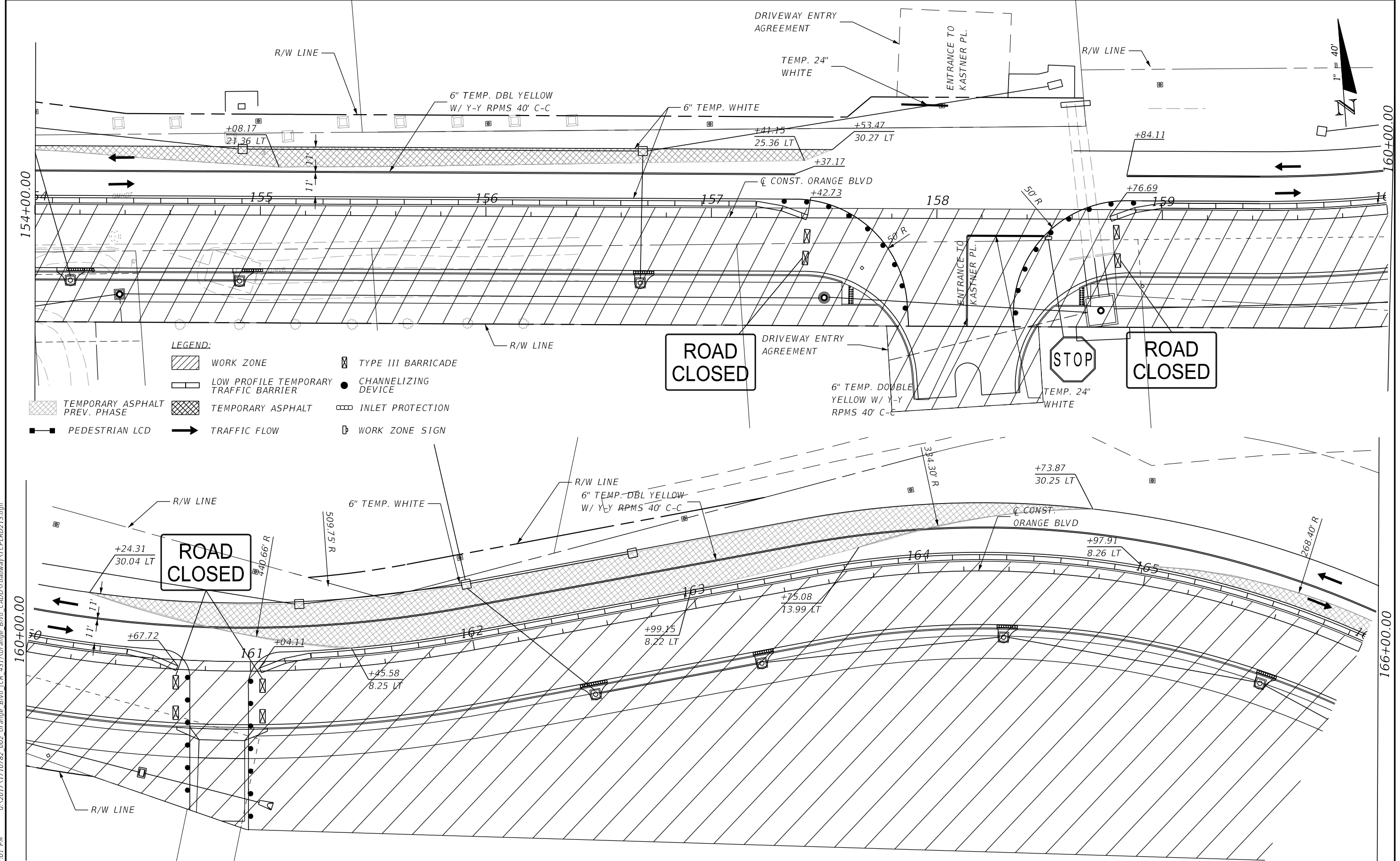
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE II**

SHEET NO.  
 326



**LEGEND:**

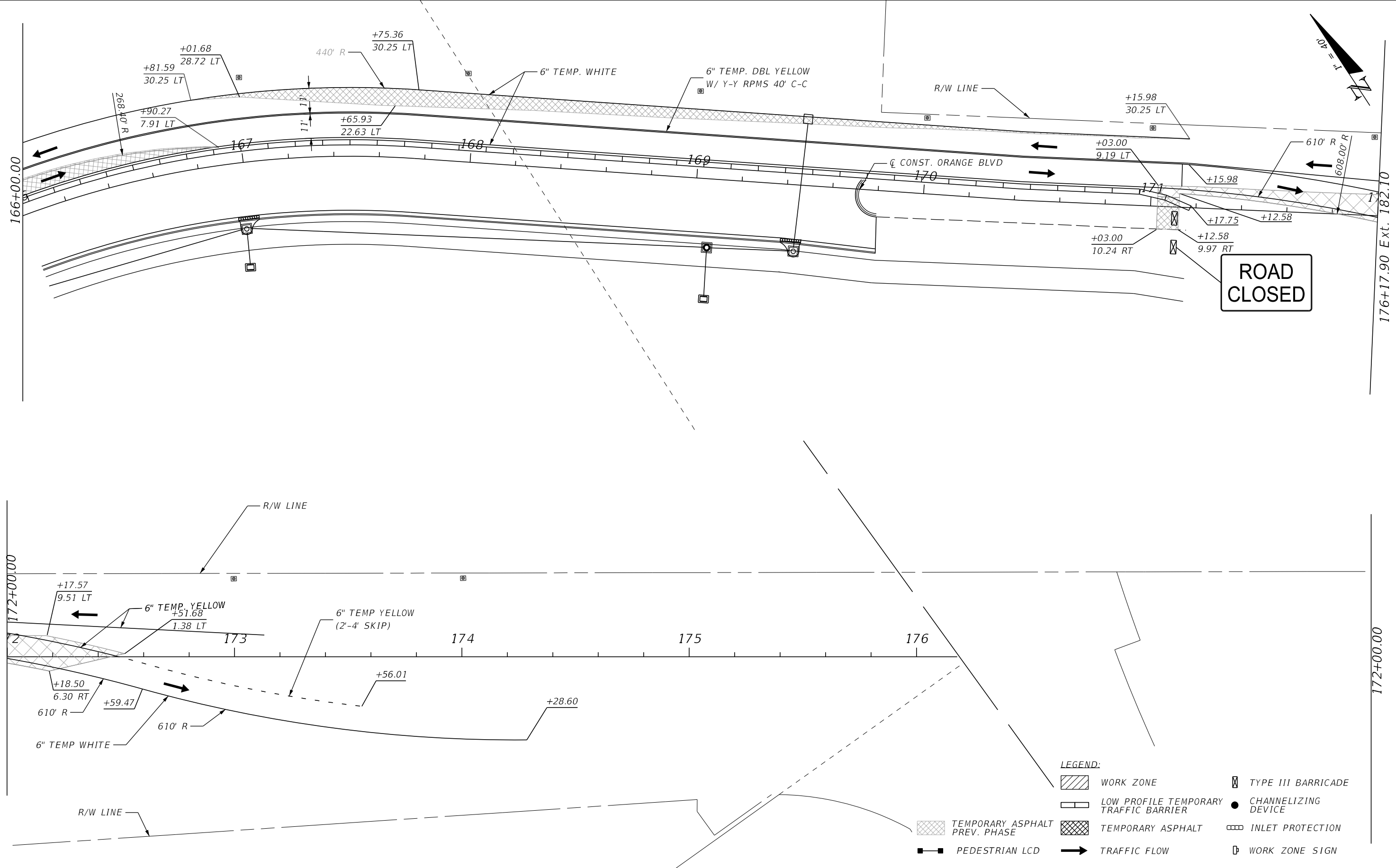
	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT PREV. PHASE		INLET PROTECTION
	PEDESTRIAN LCD		WORK ZONE SIGN
	TEMPORARY ASPHALT		
	TRAFFIC FLOW		

10/10/2022 4:01:01 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD213.dgn

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td>PRELIMINARY NOT FOR CONSTRUCTION</td> </tr> </tbody> </table>		REVISIONS		DATE	DESCRIPTION		PRELIMINARY NOT FOR CONSTRUCTION	<p>JASON R. FLICK, P.E.          P.E. LICENSE NUMBER 74741          JMT - JOHNSON, MIRMIRAN &amp; THOMPSON          615 CRESCENT EXECUTIVE COURT, SUITE 106          LAKE MARY, FL 32746          CERTIFICATE OF AUTHORIZATION NO.: 5917</p>	<p>SEMINOLE COUNTY PUBLIC WORKS</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>SEMINOLE COUNTY CIP</th> </tr> <tr> <td>CR 431</td> <td>SEMINOLE</td> <td>01785303</td> </tr> </table>	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	<p>TCP PLAN          PHASE II</p>	<p>SHEET NO.          327</p>
REVISIONS																	
DATE	DESCRIPTION																
	PRELIMINARY NOT FOR CONSTRUCTION																
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP															
CR 431	SEMINOLE	01785303															



10/10/2022 4:01:09 PM Q:\2017\1710782\_002\_Orange\_Bldd\_(CR\_431)\Orange\_Bldd\_CADD\roadway\TCPLRD214.dgn



- LEGEND:**
- WORK ZONE
  - LOW PROFILE TEMPORARY TRAFFIC BARRIER
  - TEMPORARY ASPHALT
  - TEMPORARY ASPHALT PREV. PHASE
  - PEDESTRIAN LCD
  - TRAFFIC FLOW
  - TYPE III BARRICADE
  - CHANNELIZING DEVICE
  - INLET PROTECTION
  - WORK ZONE SIGN

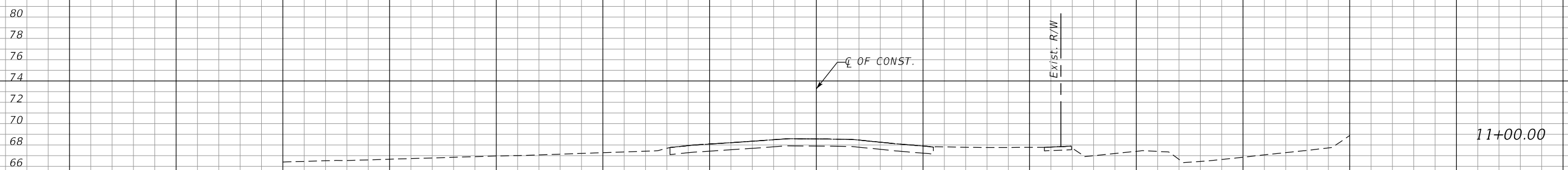
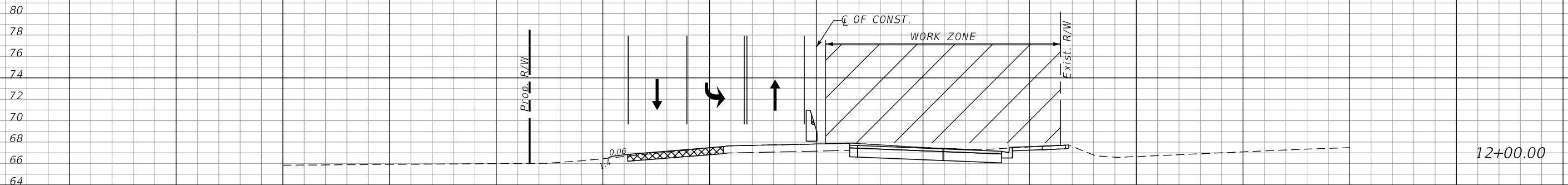
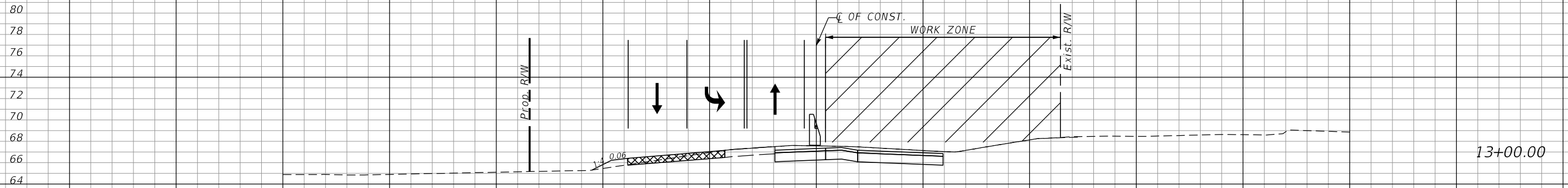
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE II**

SHEET NO.  
**328**



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

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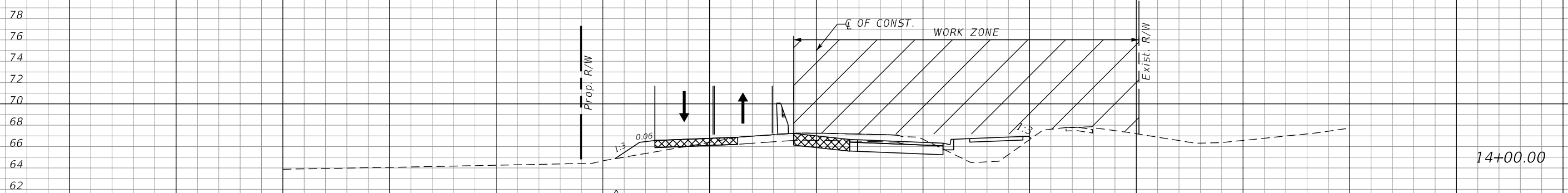
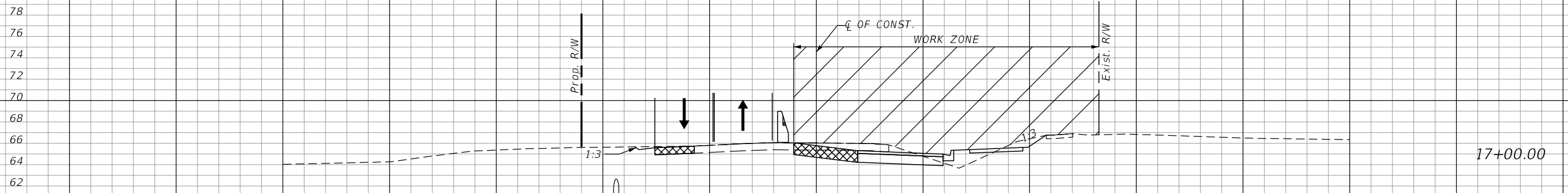
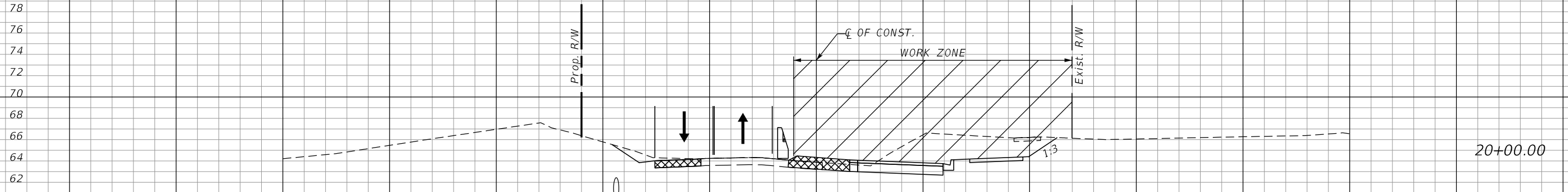
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

SHEET NO.  
329



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

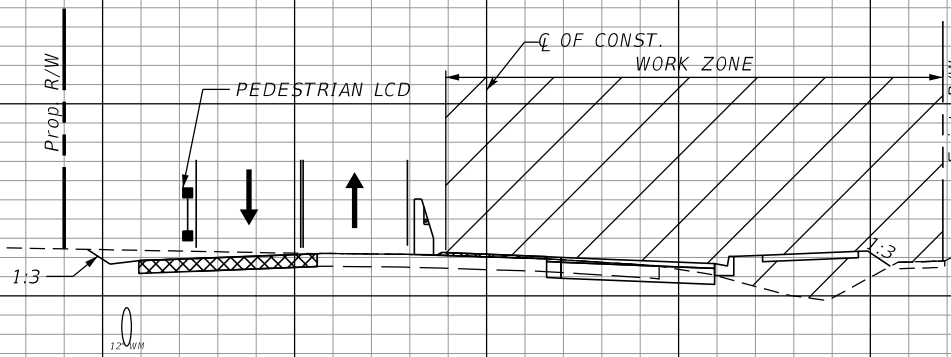
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

SHEET NO.  
330

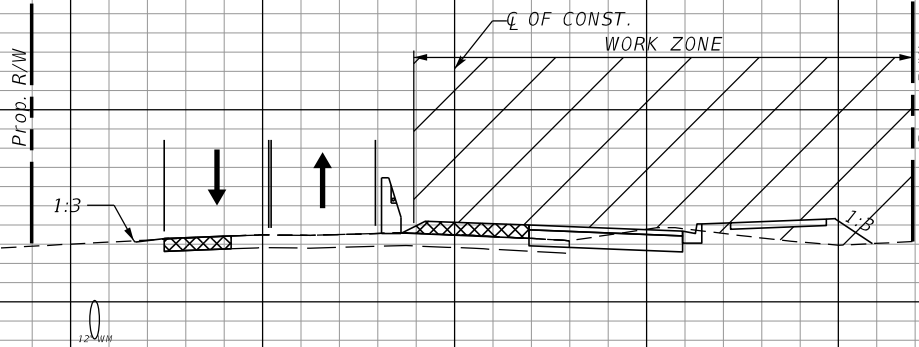


62  
60  
58  
56  
54  
52  
50  
48  
46



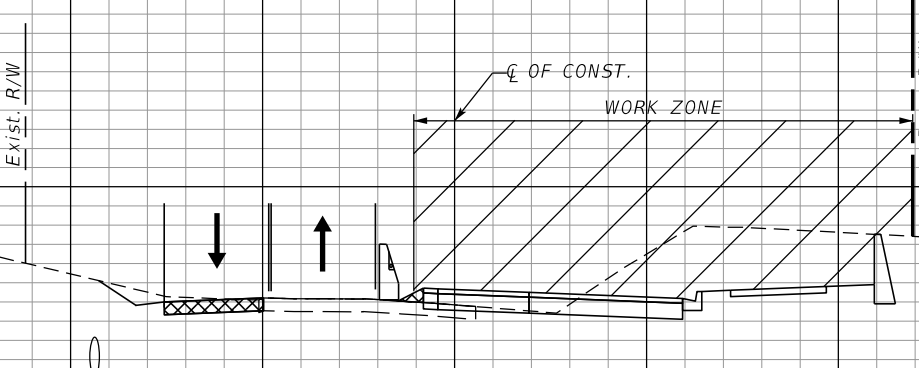
30+00.00

66  
64  
62  
60  
58  
56  
54



26+00.00

74  
72  
70  
68  
66  
64  
62  
60  
58



23+00.00

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

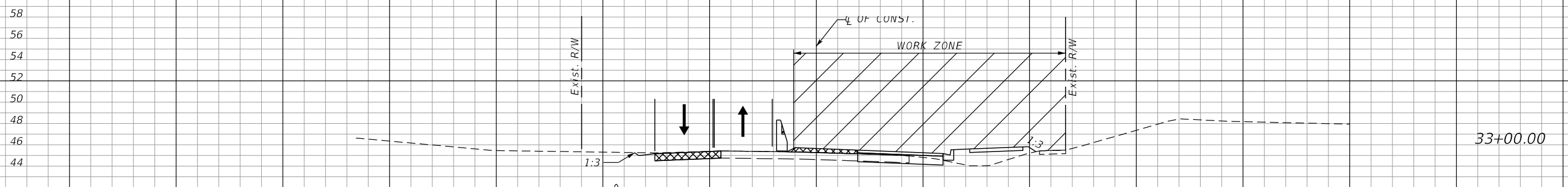
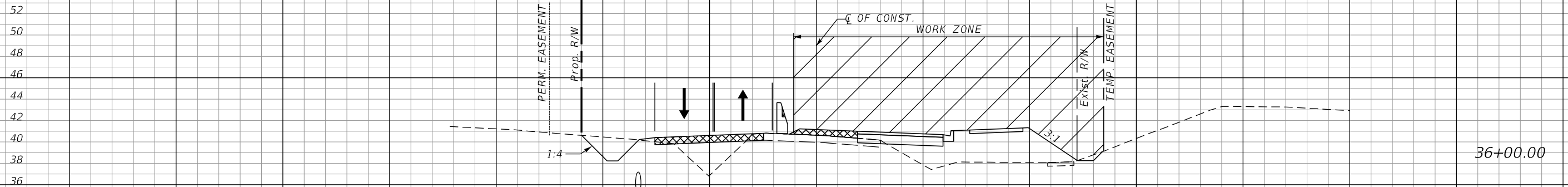
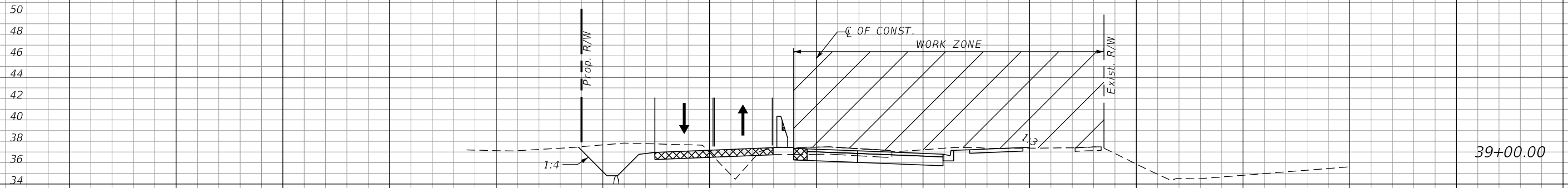
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REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
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615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS SECTIONS  
PHASE II  
331



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

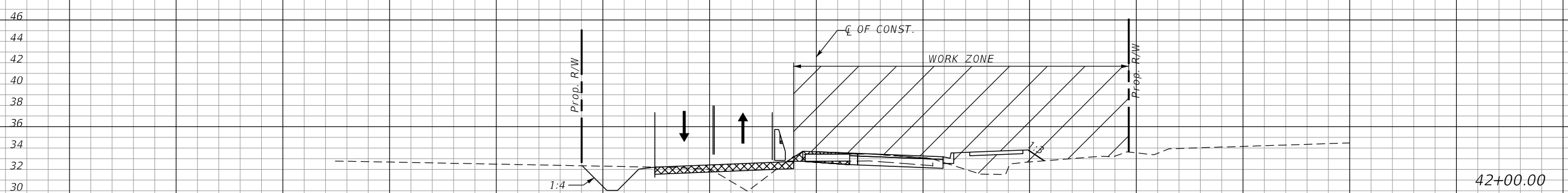
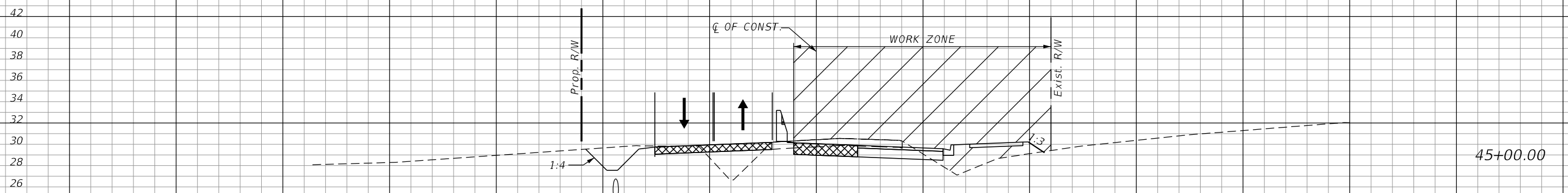
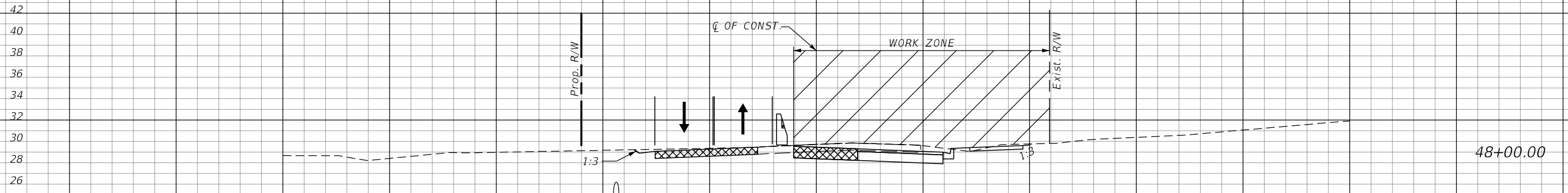
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

SHEET NO.  
332



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

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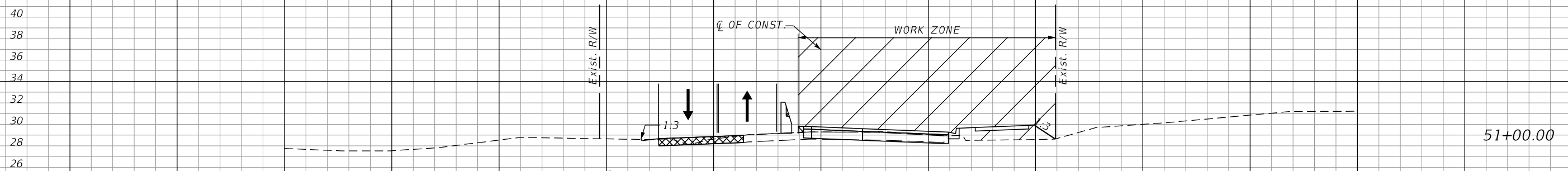
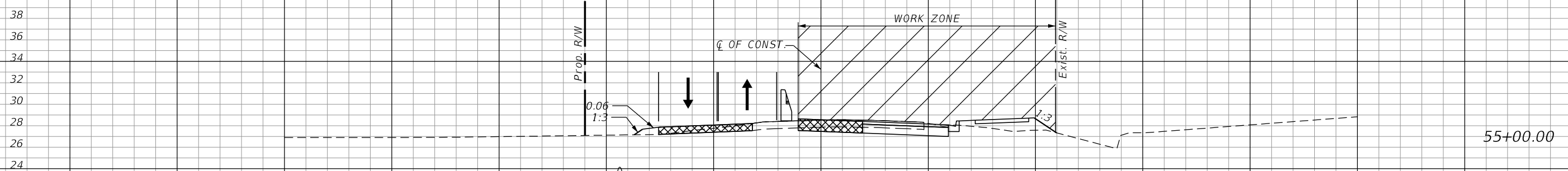
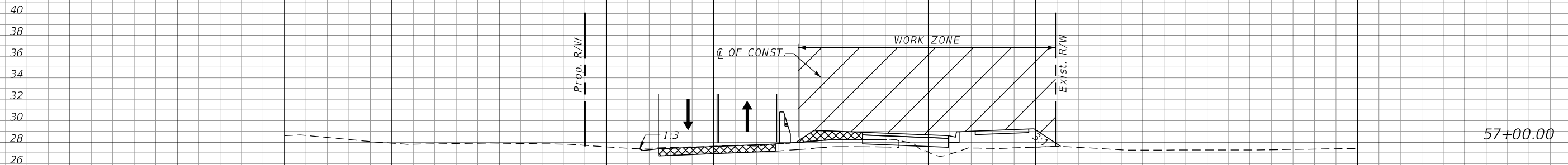
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS SECTIONS  
PHASE II

SHEET NO.  
333



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

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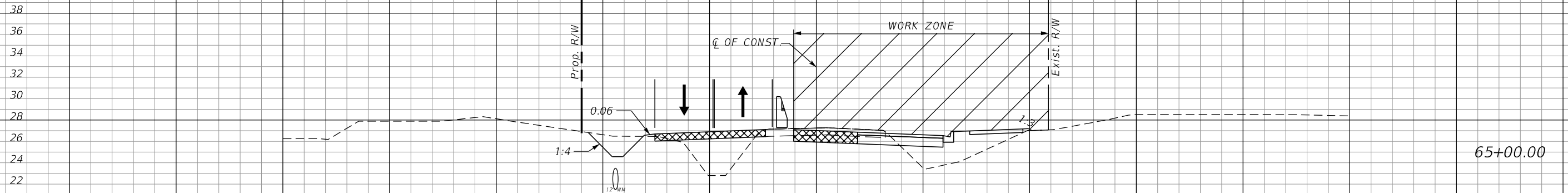
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

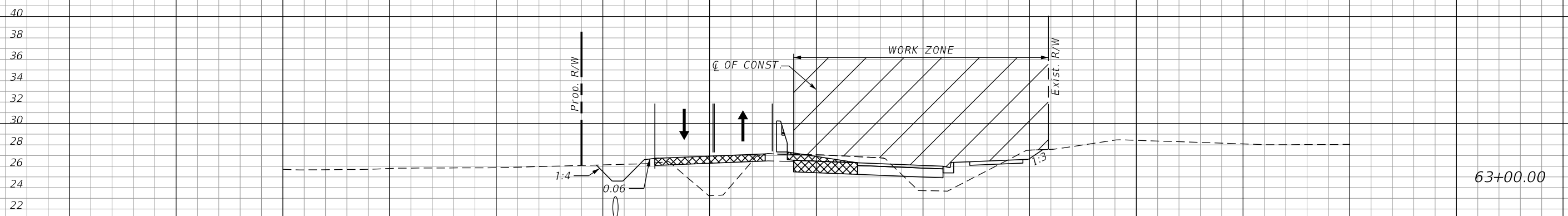
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

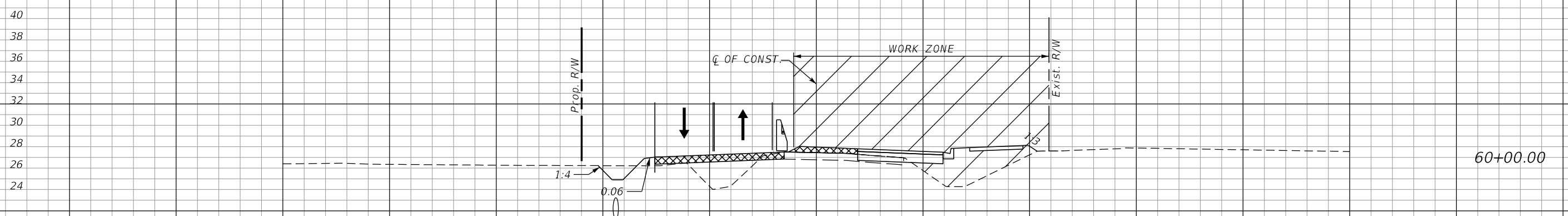
SHEET NO.  
334



65+00.00



63+00.00



60+00.00

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

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REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

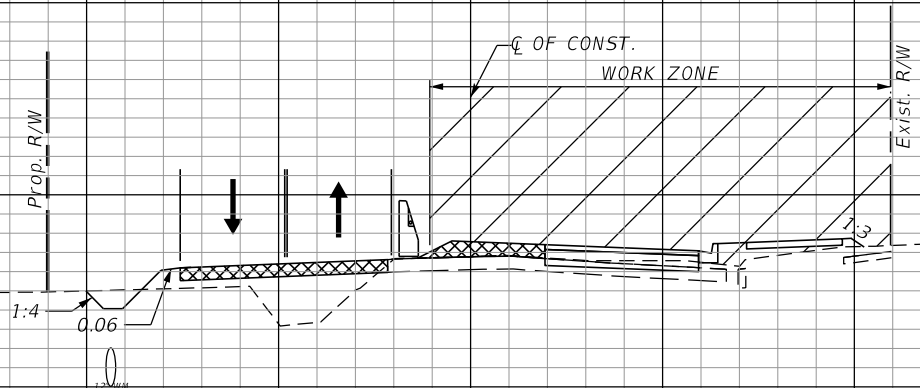
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

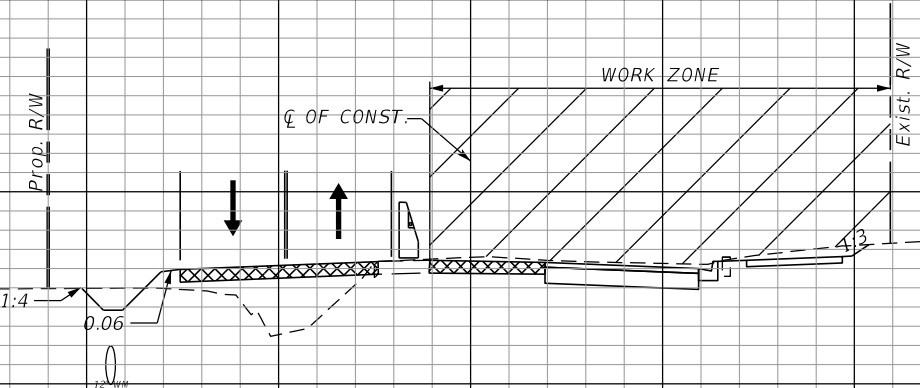
SHEET NO.  
335

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22



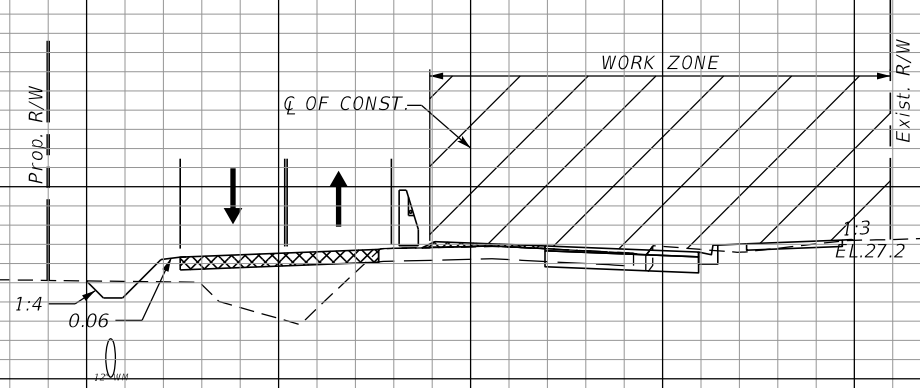
75+00.00

38  
36  
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32  
30  
28  
26  
24  
22



71+00.00

38  
36  
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30  
28  
26  
24  
22



69+00.00

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

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REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

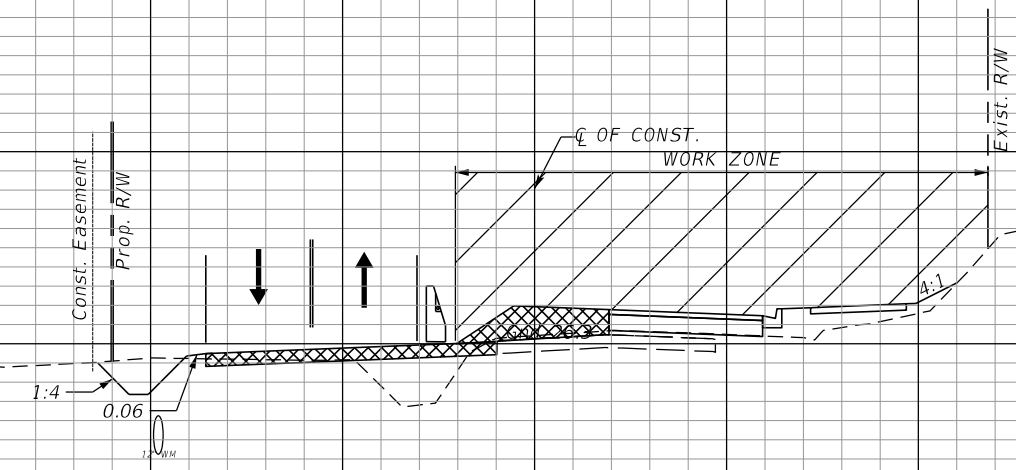
JASON R. FLICK, P.E.  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

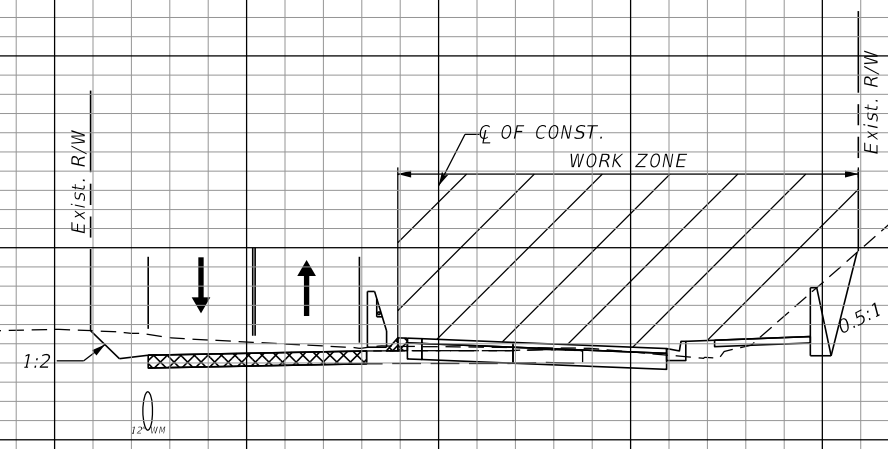
SHEET NO.  
336

42  
40  
38  
36  
34  
32  
30  
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26  
24  
22



81+00.00

44  
42  
40  
38  
36  
34  
32  
30  
28  
26  
24



78+00.00

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

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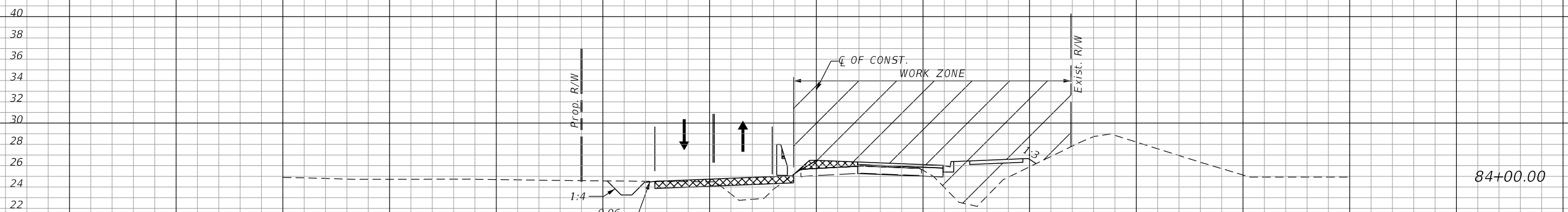
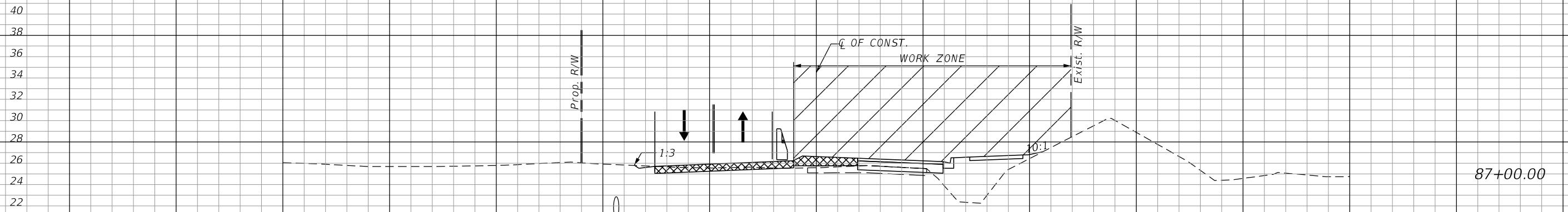
REVISIONS	
DATE	DESCRIPTION
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JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

SHEET NO.  
337

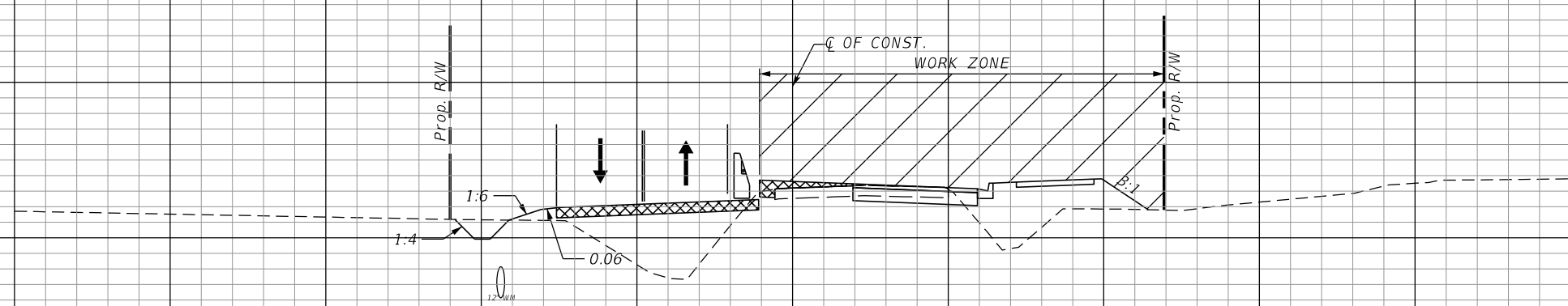


1" = 20' Horizontal  
1" = 10' Vertical

REVISIONS		DATE		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION		
	PRELIMINARY NOT FOR CONSTRUCTION				
				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	
				SEMINOLE COUNTY PUBLIC WORKS ROAD NO. COUNTY SEMINOLE COUNTY CIP CR 431 SEMINOLE 01785303	
				TCP CROSS SECTIONS PHASE II	
				SHEET NO. 338	

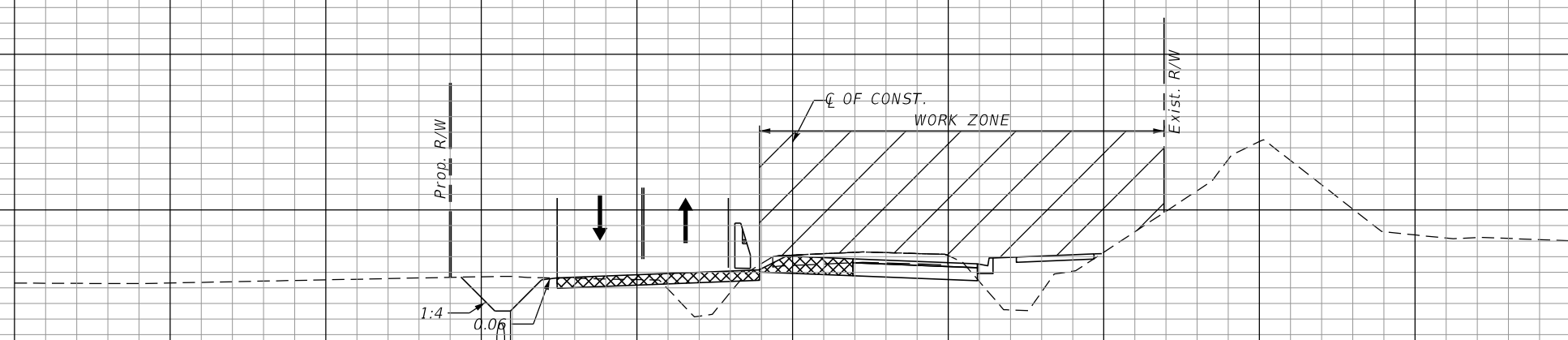


36  
34  
32  
30  
28  
26  
24  
22  
20  
18



93+00.00

40  
38  
36  
34  
32  
30  
28  
26  
24  
22  
20



91+00.00

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

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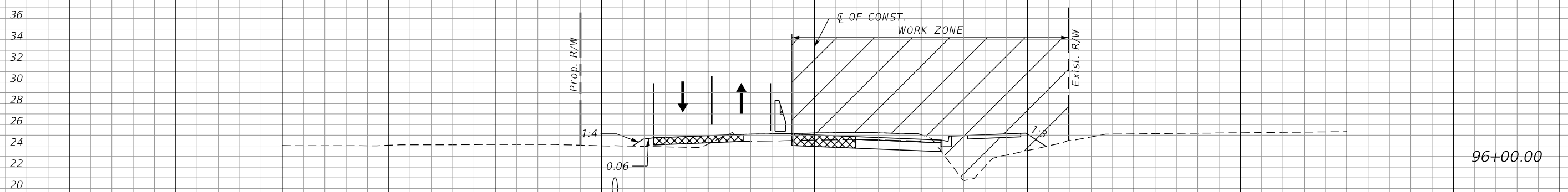
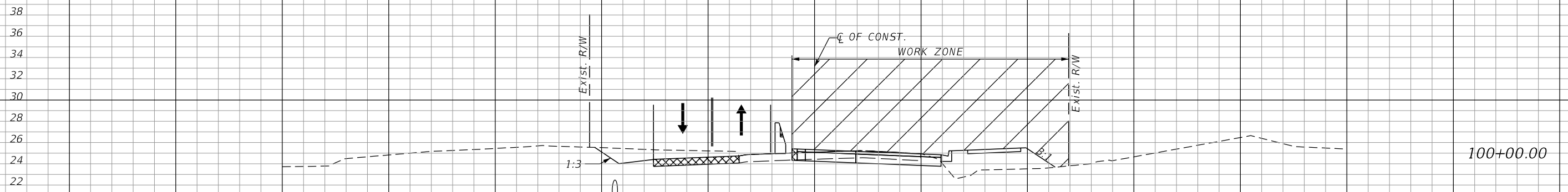
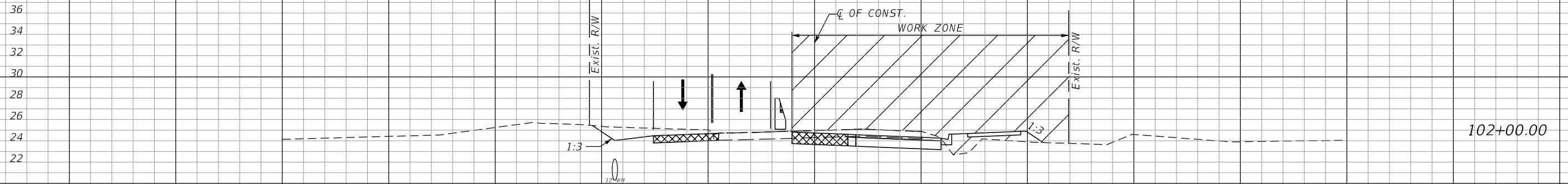
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS SECTIONS  
PHASE II

SHEET NO.  
339



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

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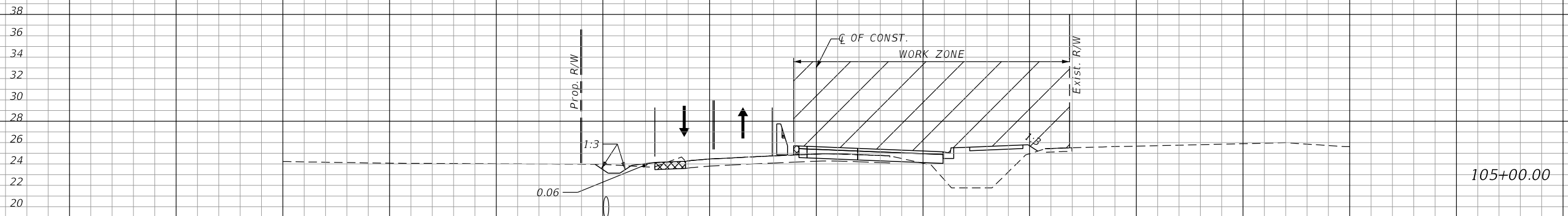
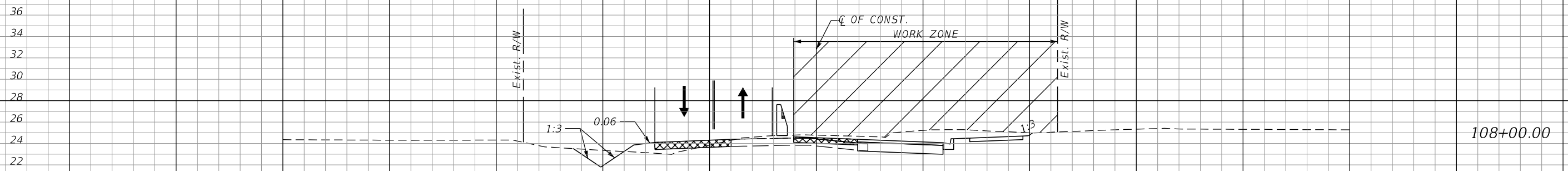
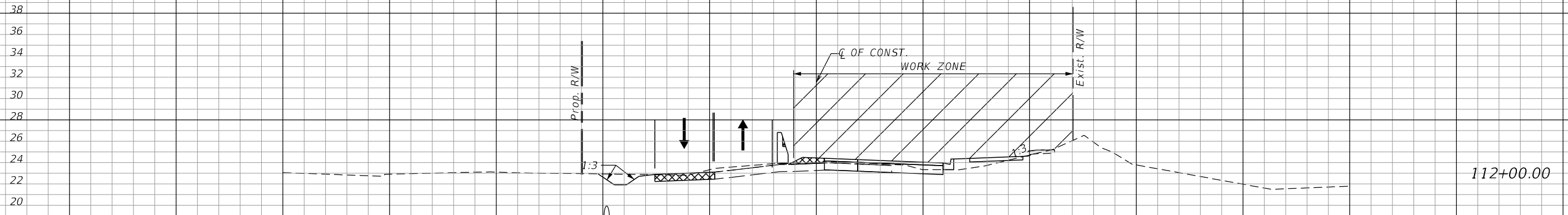
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS SECTIONS  
PHASE II

SHEET NO.  
340



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

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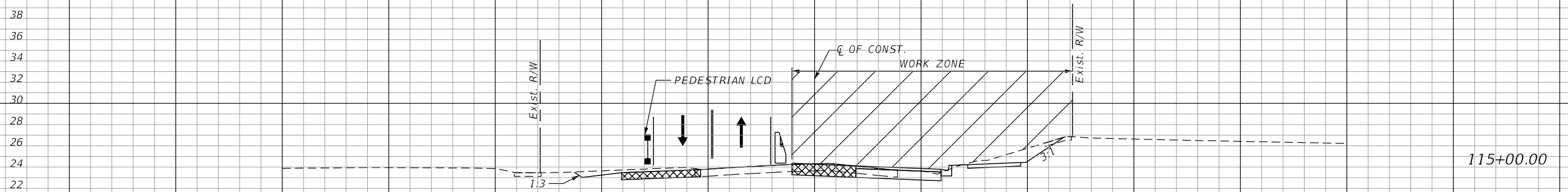
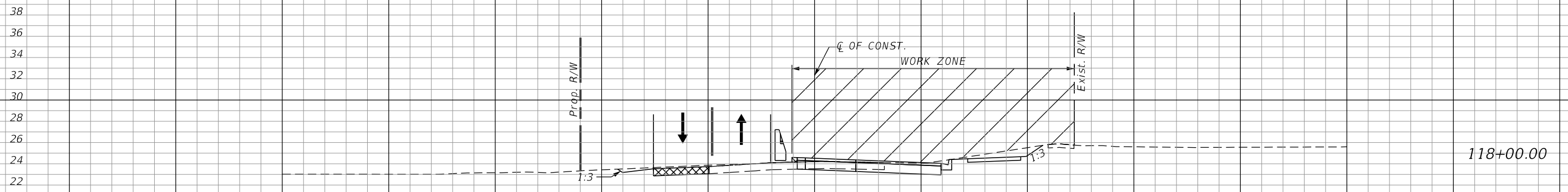
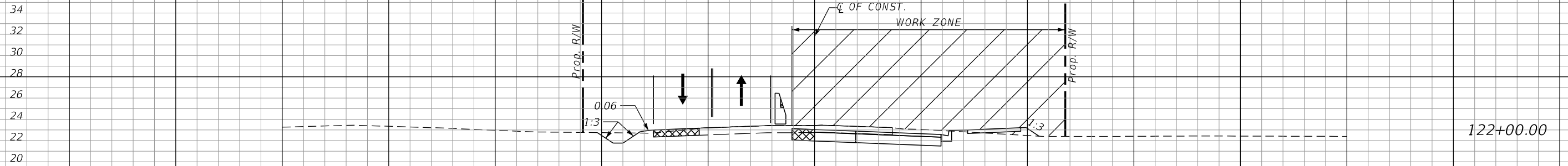
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS SECTIONS  
PHASE II

SHEET NO.  
341



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

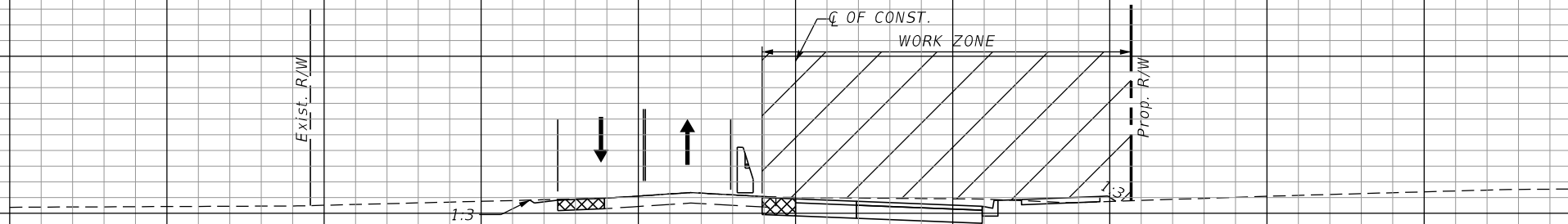
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

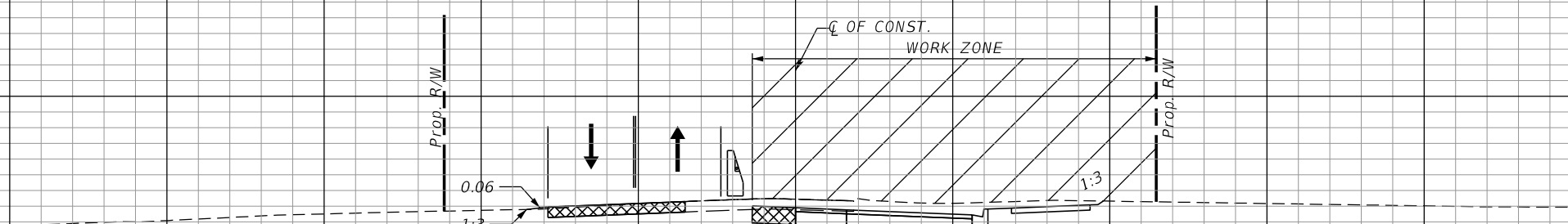
SHEET NO.  
342

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22  
20



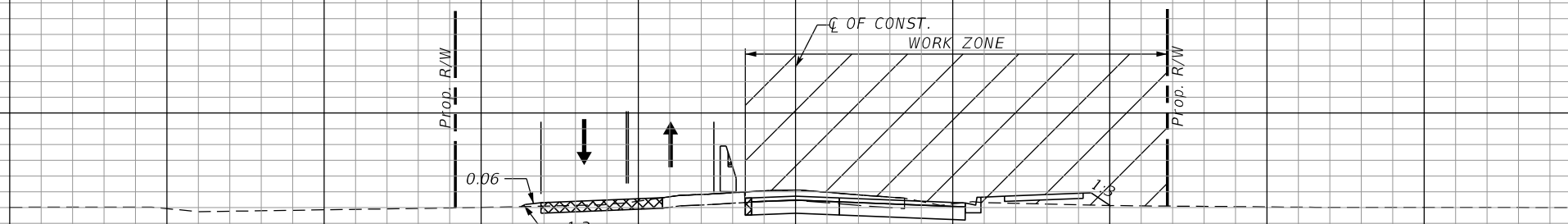
132+00.00

34  
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22  
20



129+00.00

34  
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24  
22  
20



124+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

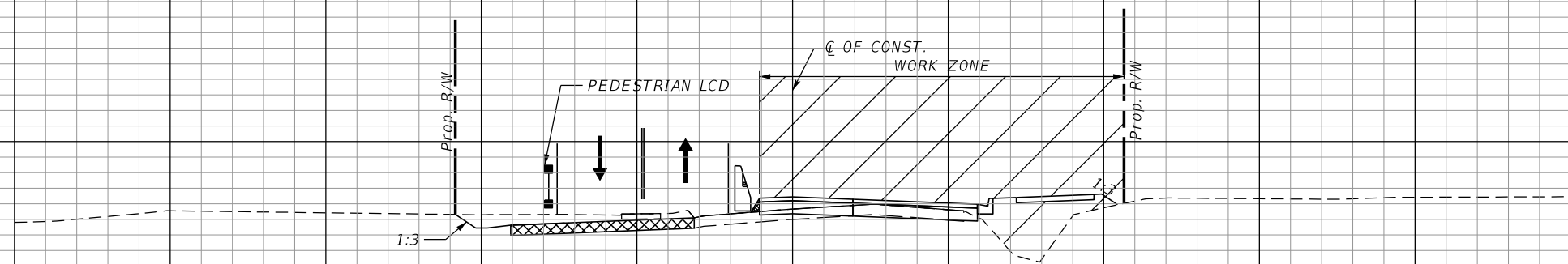
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

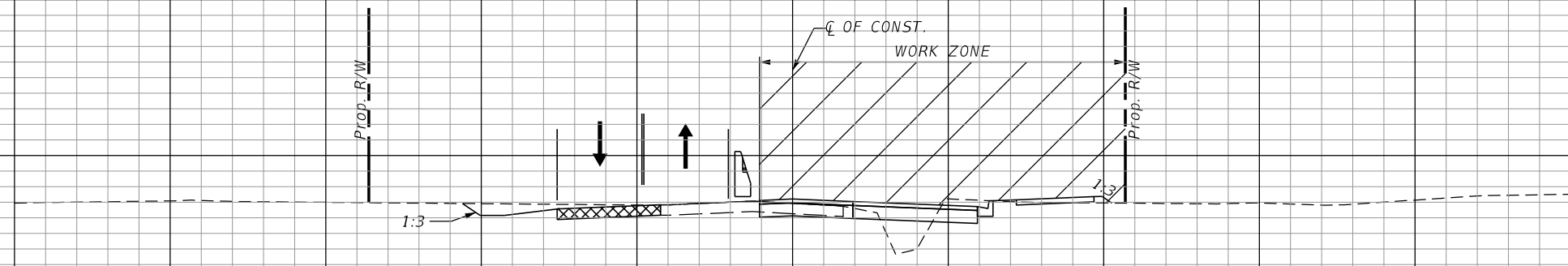
SHEET NO.  
343

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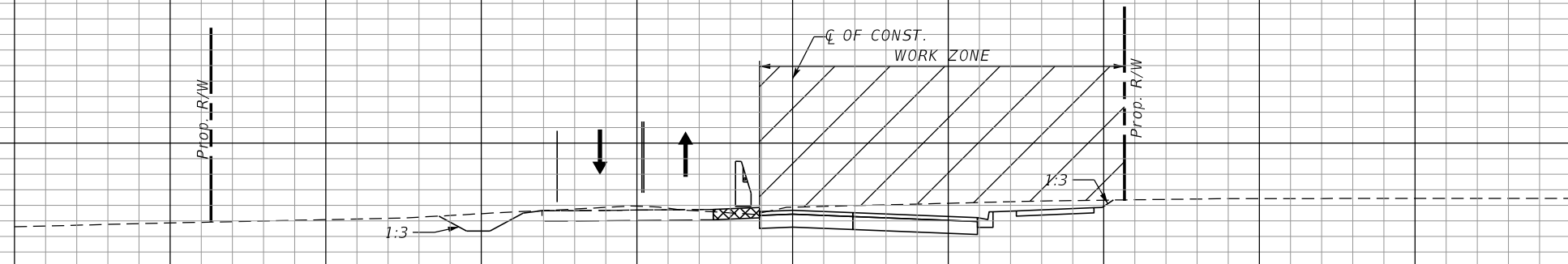
141+00.00

30  
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26  
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22  
20  
18  
16  
14



138+00.00

34  
32  
30  
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26  
24  
22  
20  
18



135+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

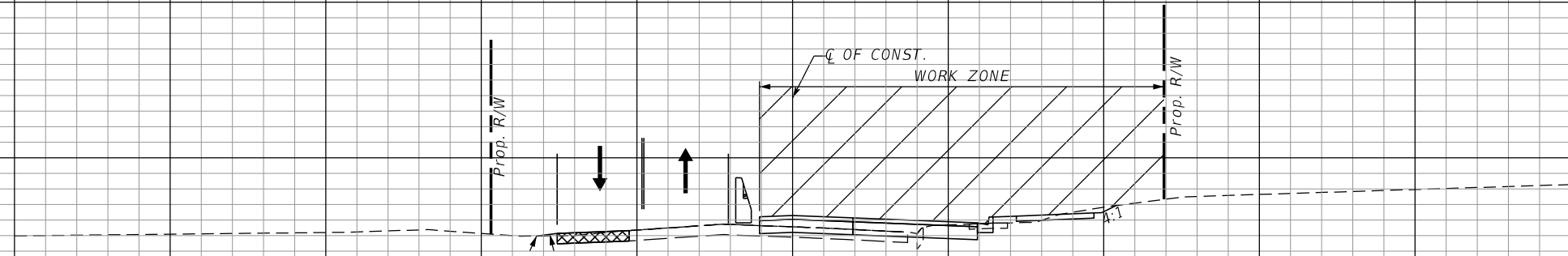
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS SECTIONS  
PHASE II

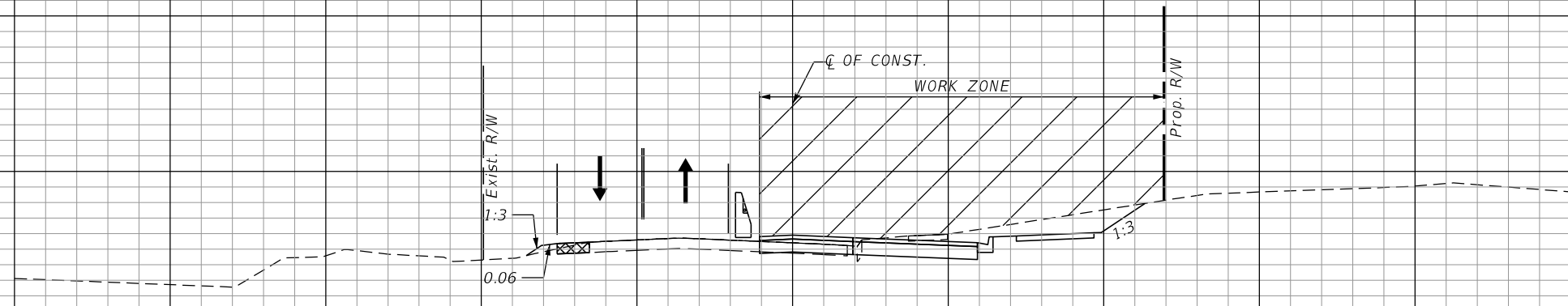
SHEET NO.  
344

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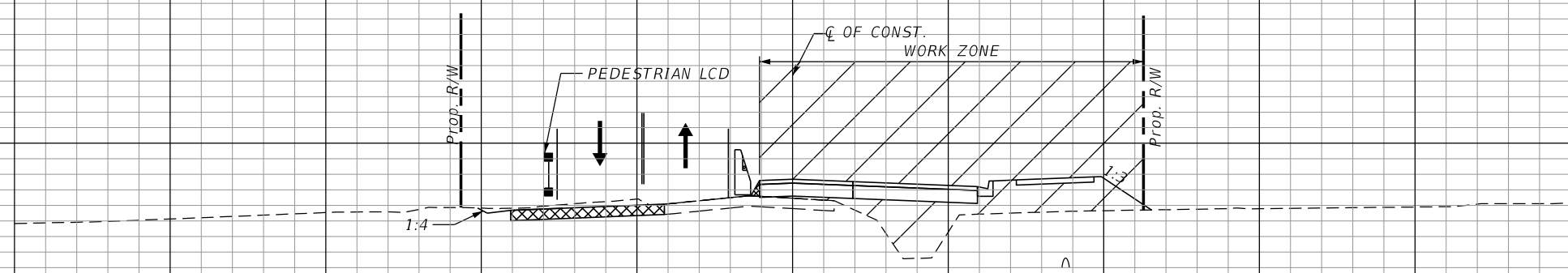
151+00.00

24  
22  
20  
18  
16  
14  
12  
10  
8  
6



149+00.00

24  
22  
20  
18  
16  
14  
12  
10  
8



144+00.00

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

160 140 120 100 80 60 40 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

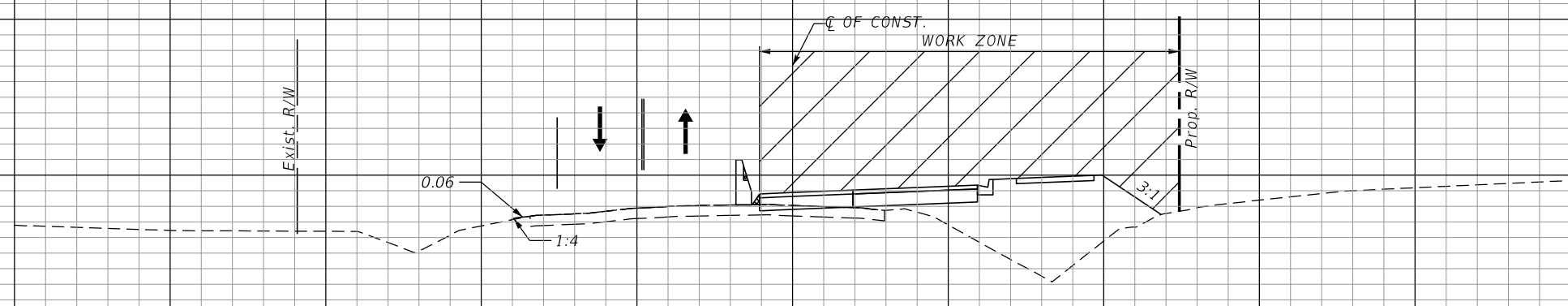
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

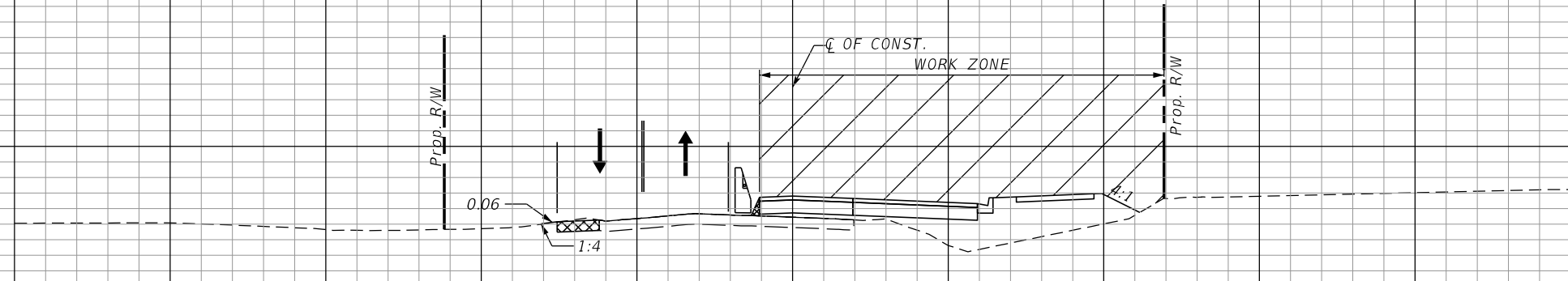
TCP CROSS SECTIONS  
PHASE II

SHEET NO.  
345

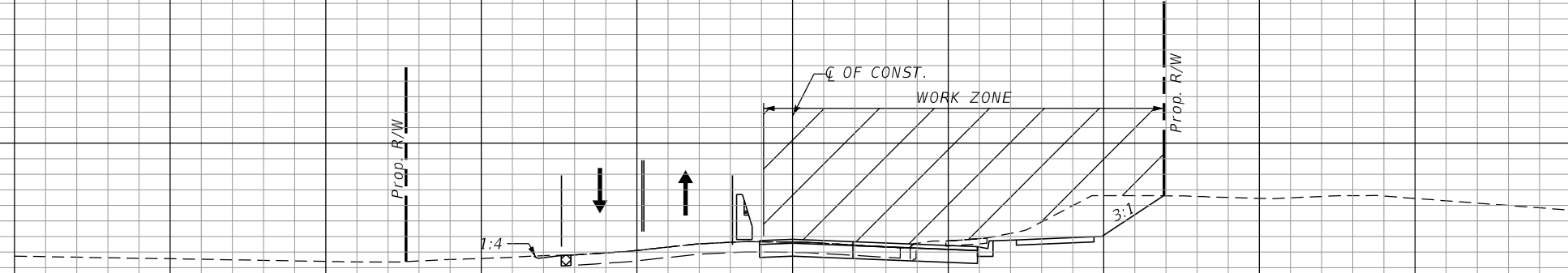
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6



24  
22  
20  
18  
16  
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12  
10  
8



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

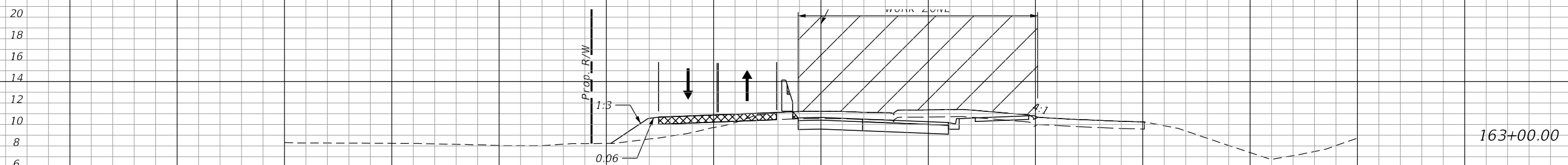
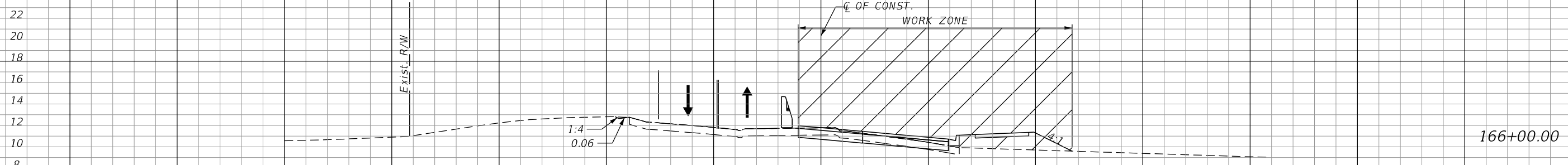
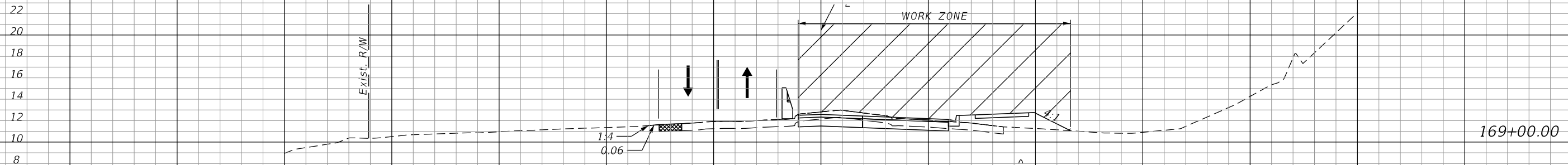
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS SECTIONS  
PHASE II

SHEET NO.  
346





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

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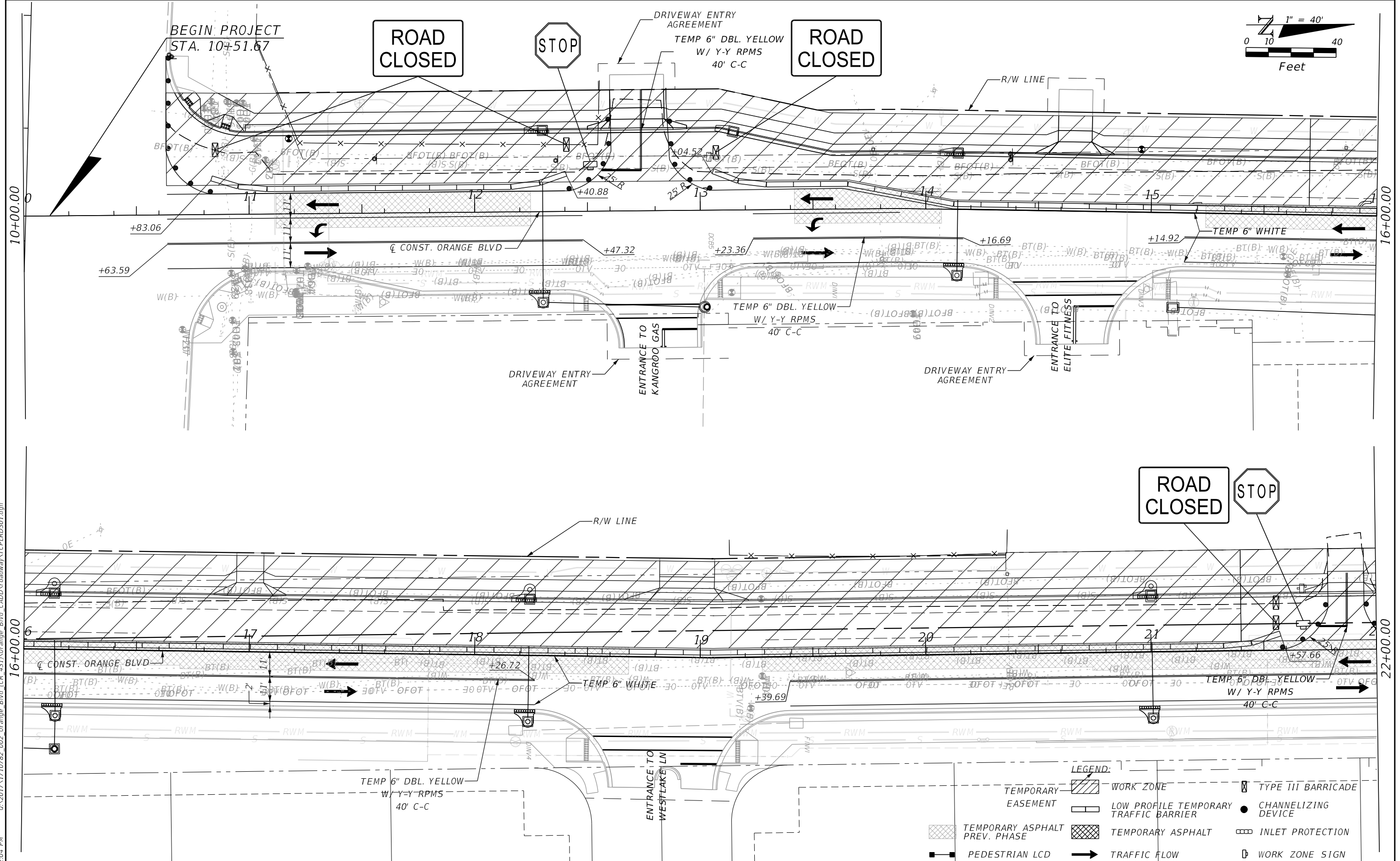
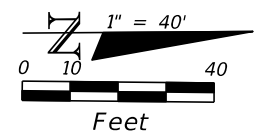
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS SECTIONS  
PHASE II**

SHEET NO.  
347



**LEGEND:**

	WORK ZONE		TYPE III BARRICADE
	TEMPORARY EASEMENT		LOW PROFILE TEMPORARY TRAFFIC BARRIER
	TEMPORARY ASPHALT PREV. PHASE		CHANNELIZING DEVICE
	PEDESTRIAN LCD		INLET PROTECTION
	TRAFFIC FLOW		WORK ZONE SIGN

REVISIONS	
DATE	DESCRIPTION

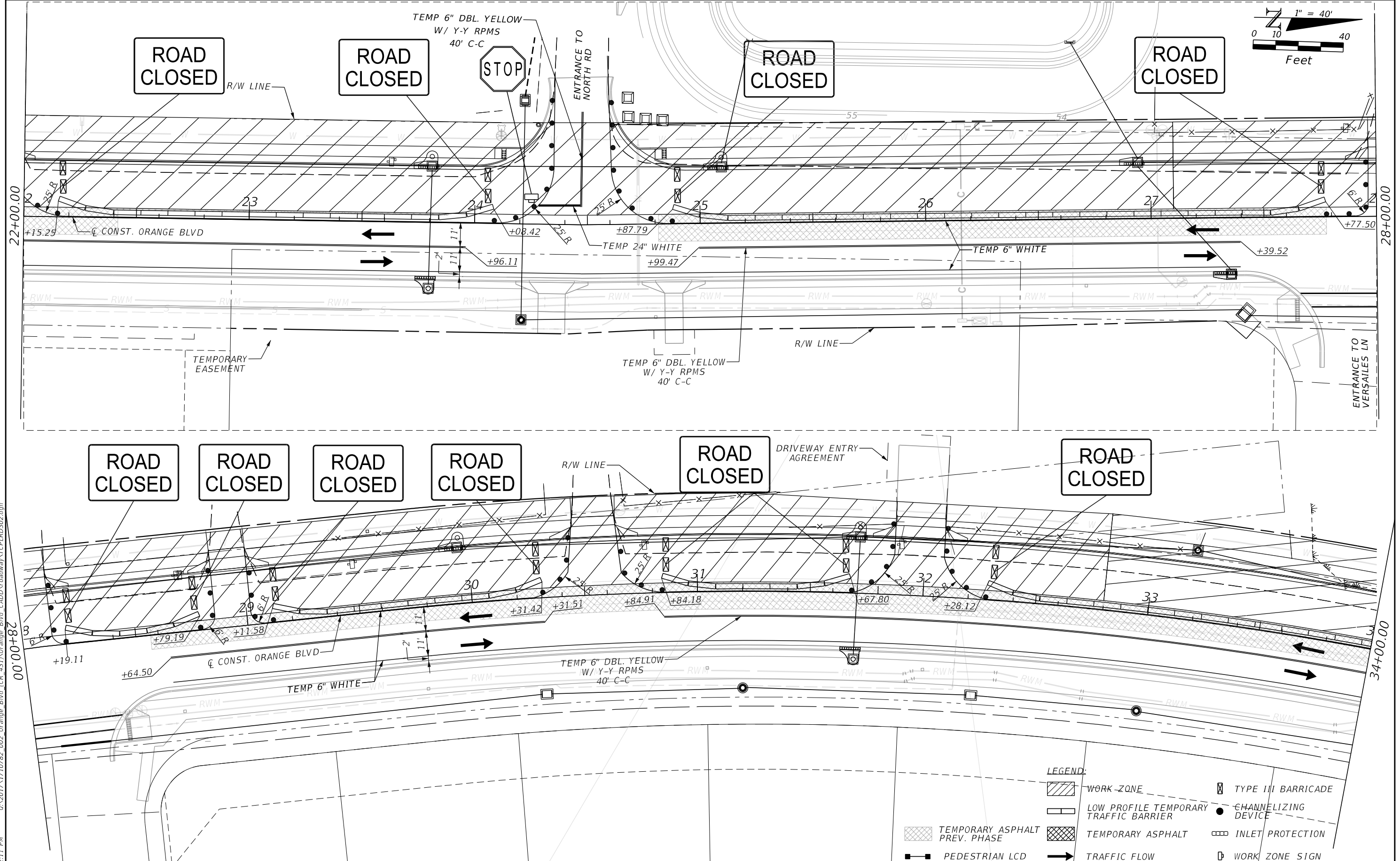
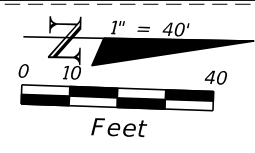
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE III**

SHEET NO.  
 348

10/10/2022 4:02:04 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCP\LRD301.dgn



**LEGEND:**

	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT PREV. PHASE		INLET PROTECTION
	TEMPORARY ASPHALT		WORK ZONE SIGN
	PEDESTRIAN LCD		
	TRAFFIC FLOW		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

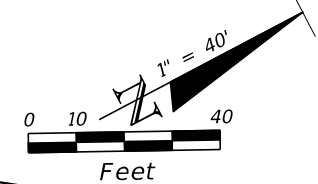
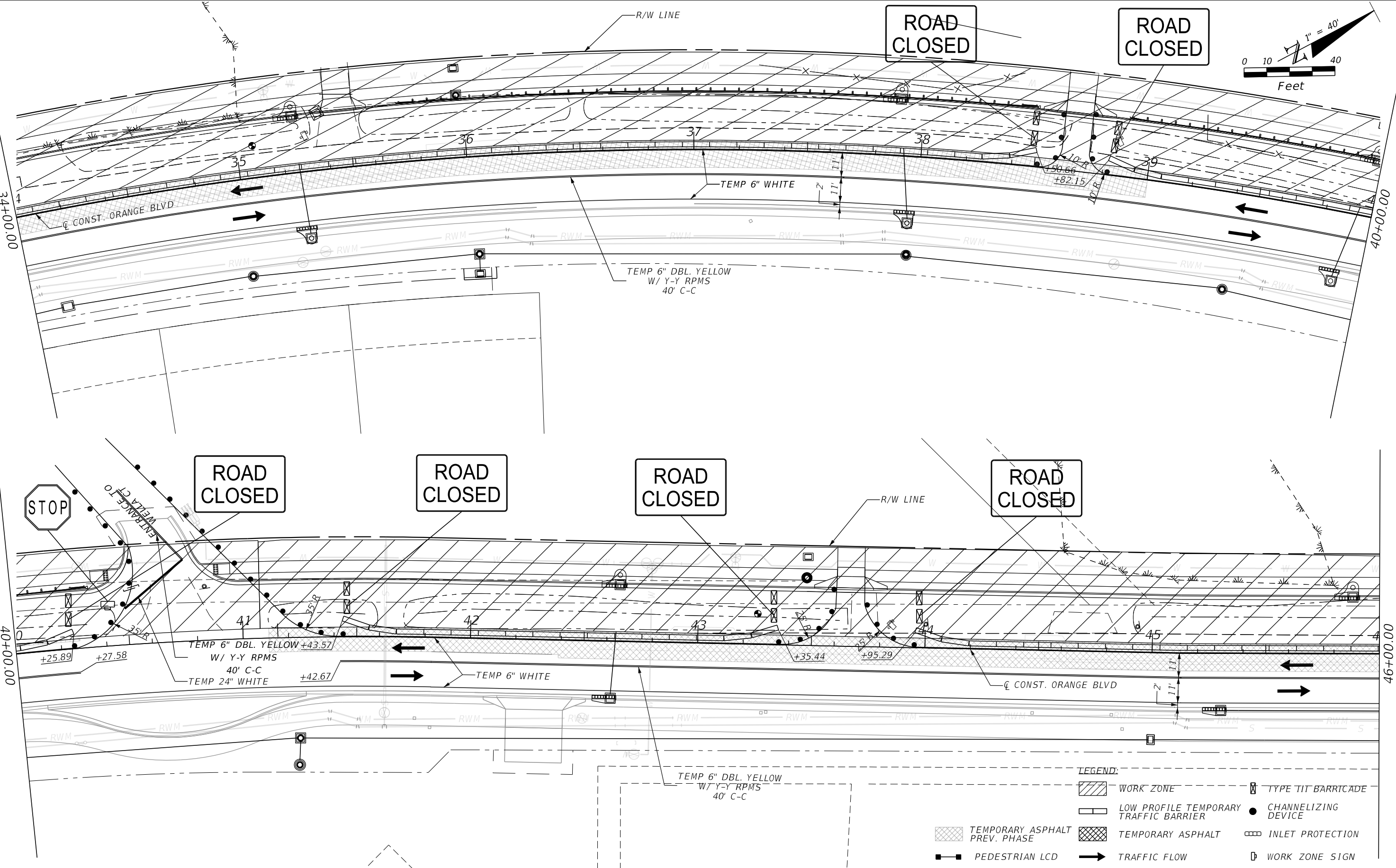
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE III**

SHEET NO.  
 349

10/10/2022 4:02:11 PM 0:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD302.dgn kyang

10/10/2022 4:02:20 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD303.dgn



REVISIONS	
DATE	DESCRIPTION

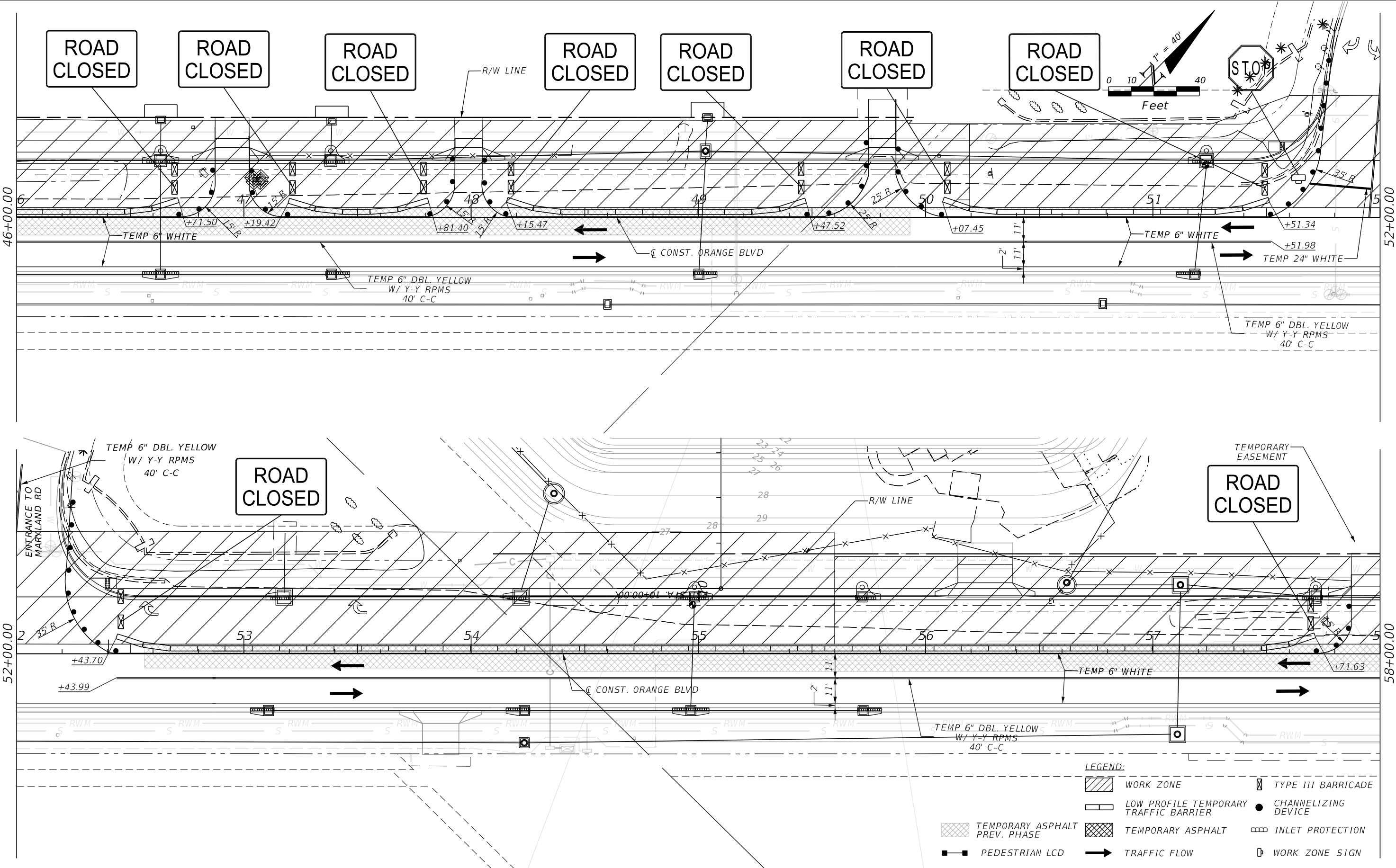
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE III**

SHEET NO.  
 350

10/10/2022 4:02:26 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD304.dgn



**LEGEND:**

WORK ZONE	TYPE III BARRICADE
LOW PROFILE TEMPORARY TRAFFIC BARRIER	CHANNELIZING DEVICE
TEMPORARY ASPHALT PREV. PHASE	TEMPORARY ASPHALT
PEDESTRIAN LCD	INLET PROTECTION
TRAFFIC FLOW	WORK ZONE SIGN

REVISIONS	
DATE	DESCRIPTION

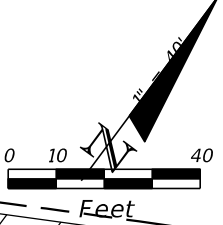
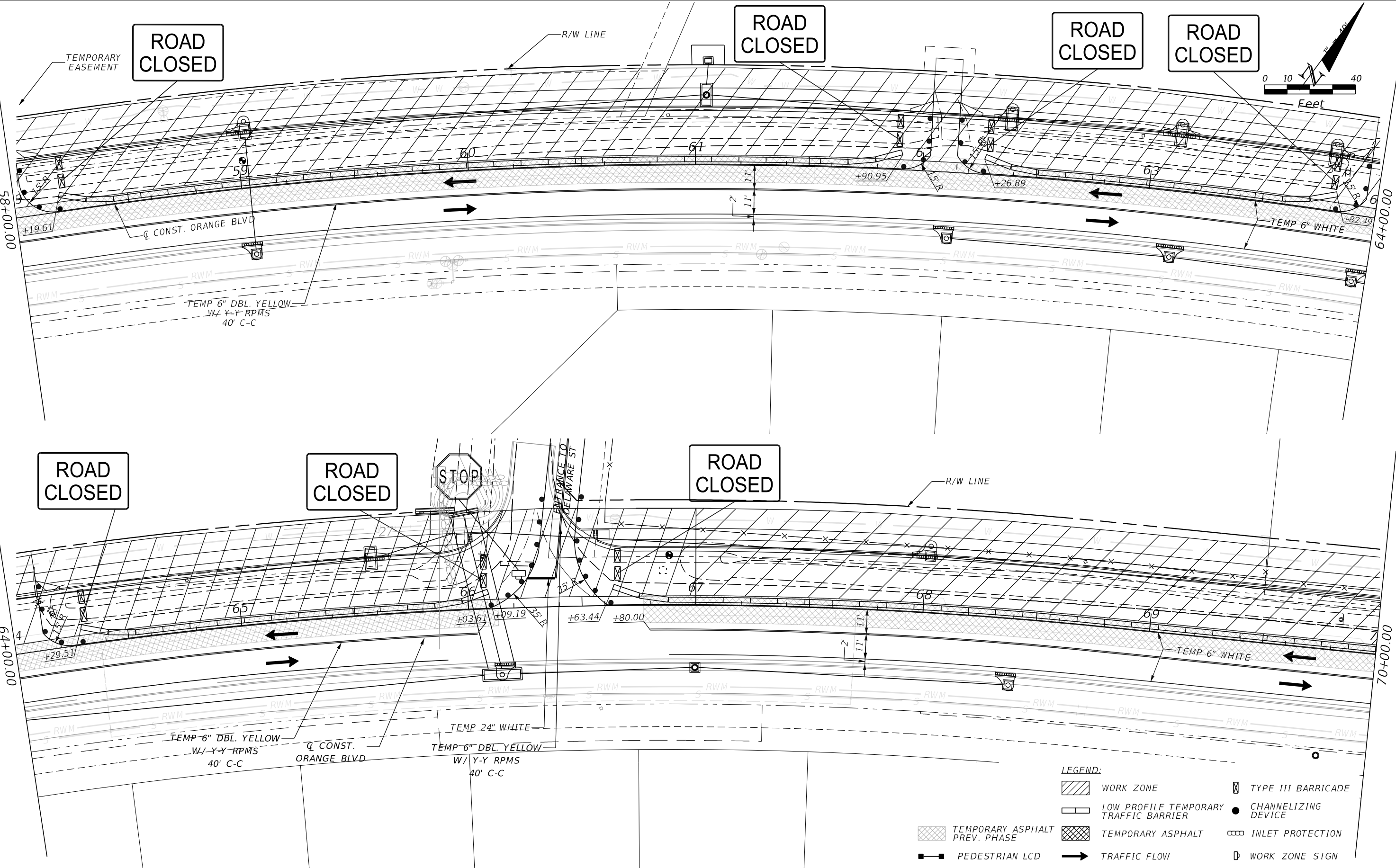
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE III**

SHEET NO.  
**351**

10/10/2022 4:02:31 PM O:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\TCPLRD305.dgn



- LEGEND:**
- WORK ZONE
  - TEMPORARY ASPHALT PREV. PHASE
  - TEMPORARY ASPHALT
  - PEDESTRIAN LCD
  - TYPE III BARRICADE
  - CHANNELIZING DEVICE
  - INLET PROTECTION
  - WORK ZONE SIGN
  - TRAFFIC FLOW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

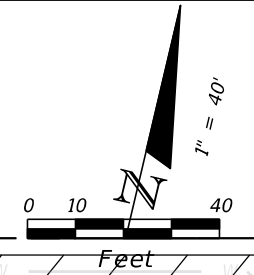
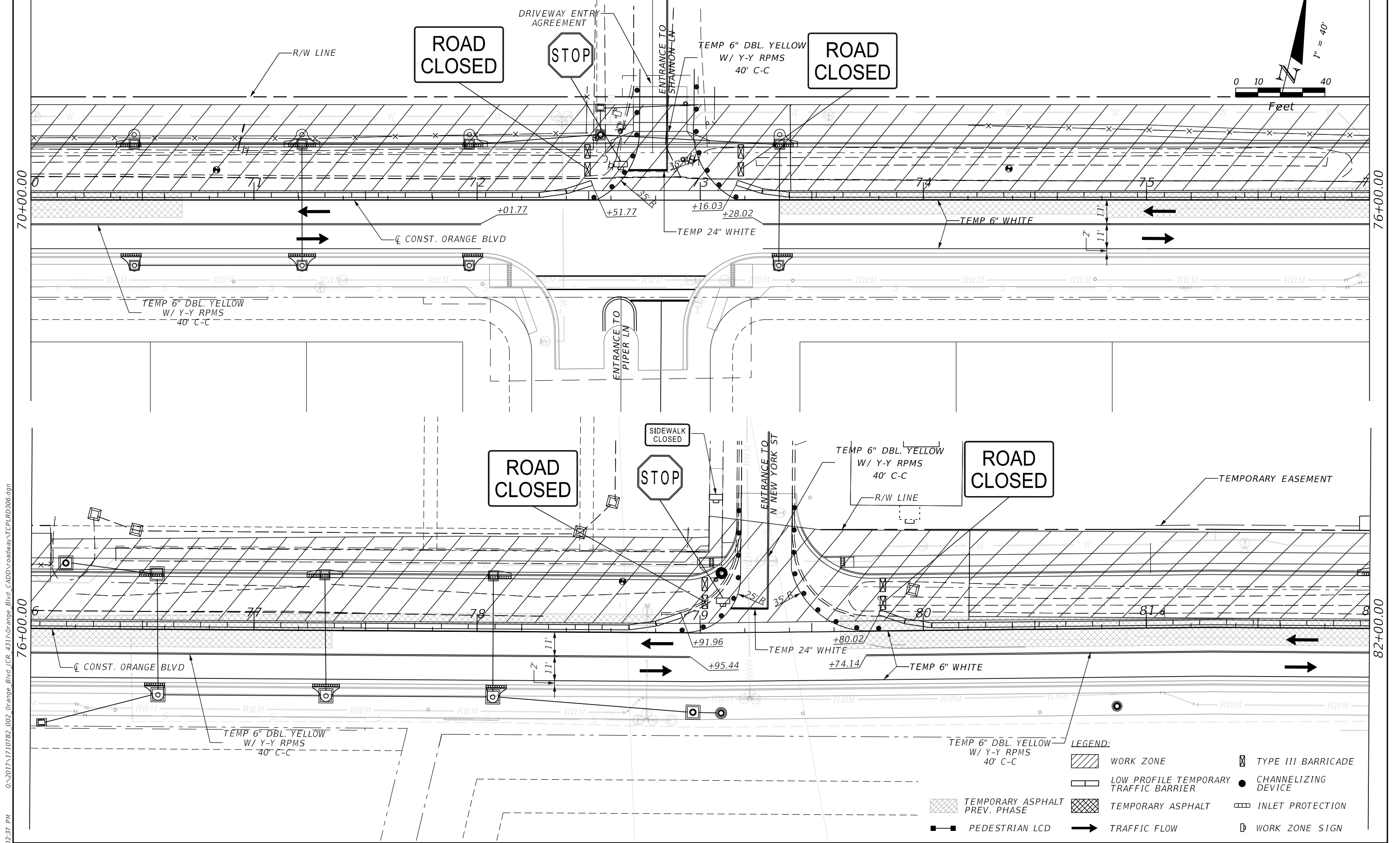
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP PLAN  
 PHASE III

SHEET NO.  
 352





10/10/2022 4:02:37 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD306.dgn

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

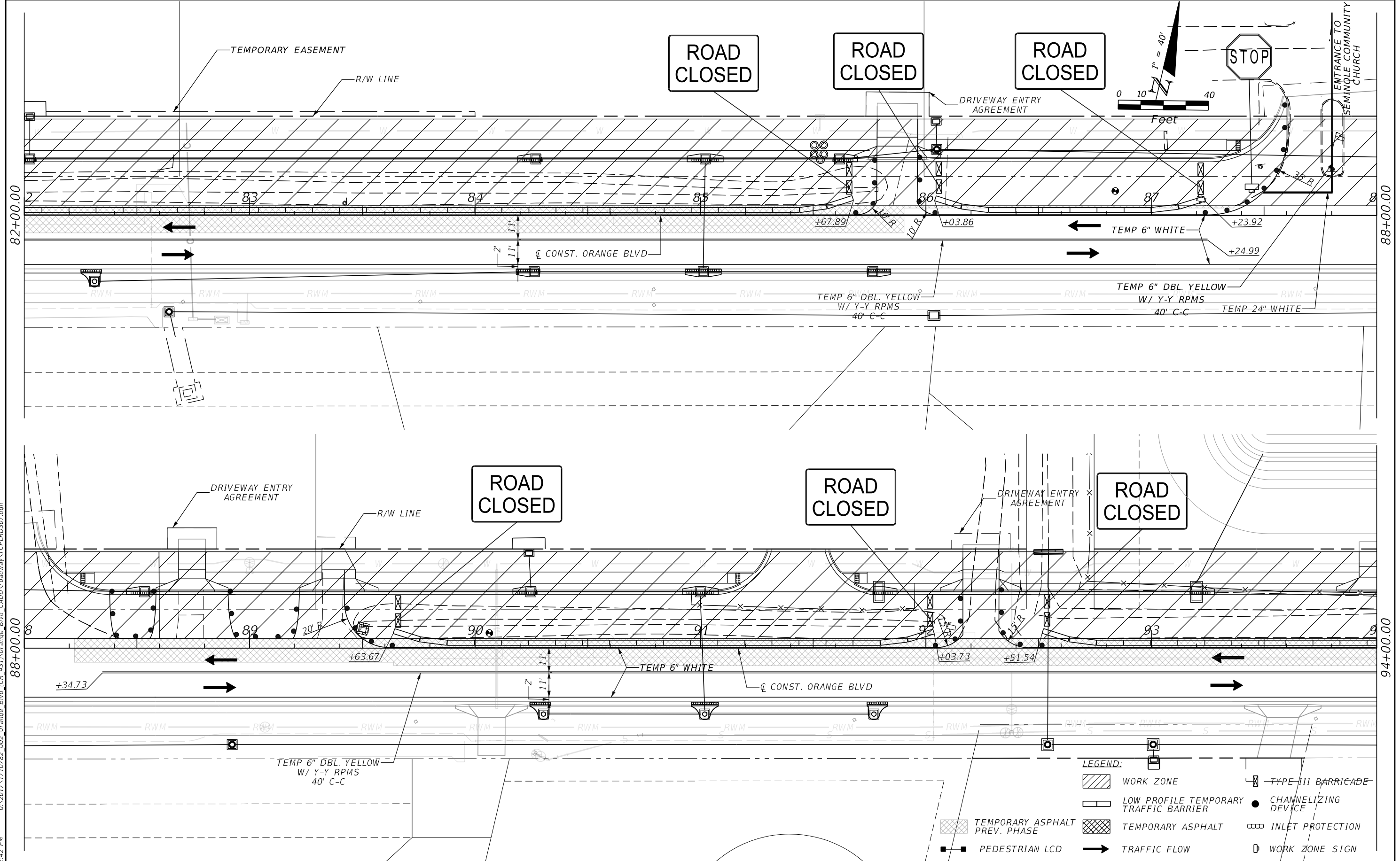
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE III**

SHEET NO.  
 353

10/10/2022 4:02:42 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD307.dgn



**LEGEND:**

WORK ZONE	TYPE III BARRICADE
LOW PROFILE TEMPORARY TRAFFIC BARRIER	CHANNELIZING DEVICE
TEMPORARY ASPHALT PREV. PHASE	INLET PROTECTION
PEDESTRIAN LCD	WORK ZONE SIGN
TRAFFIC FLOW	

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

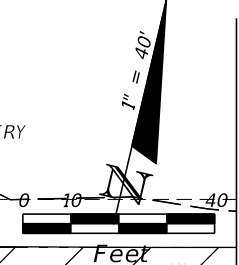
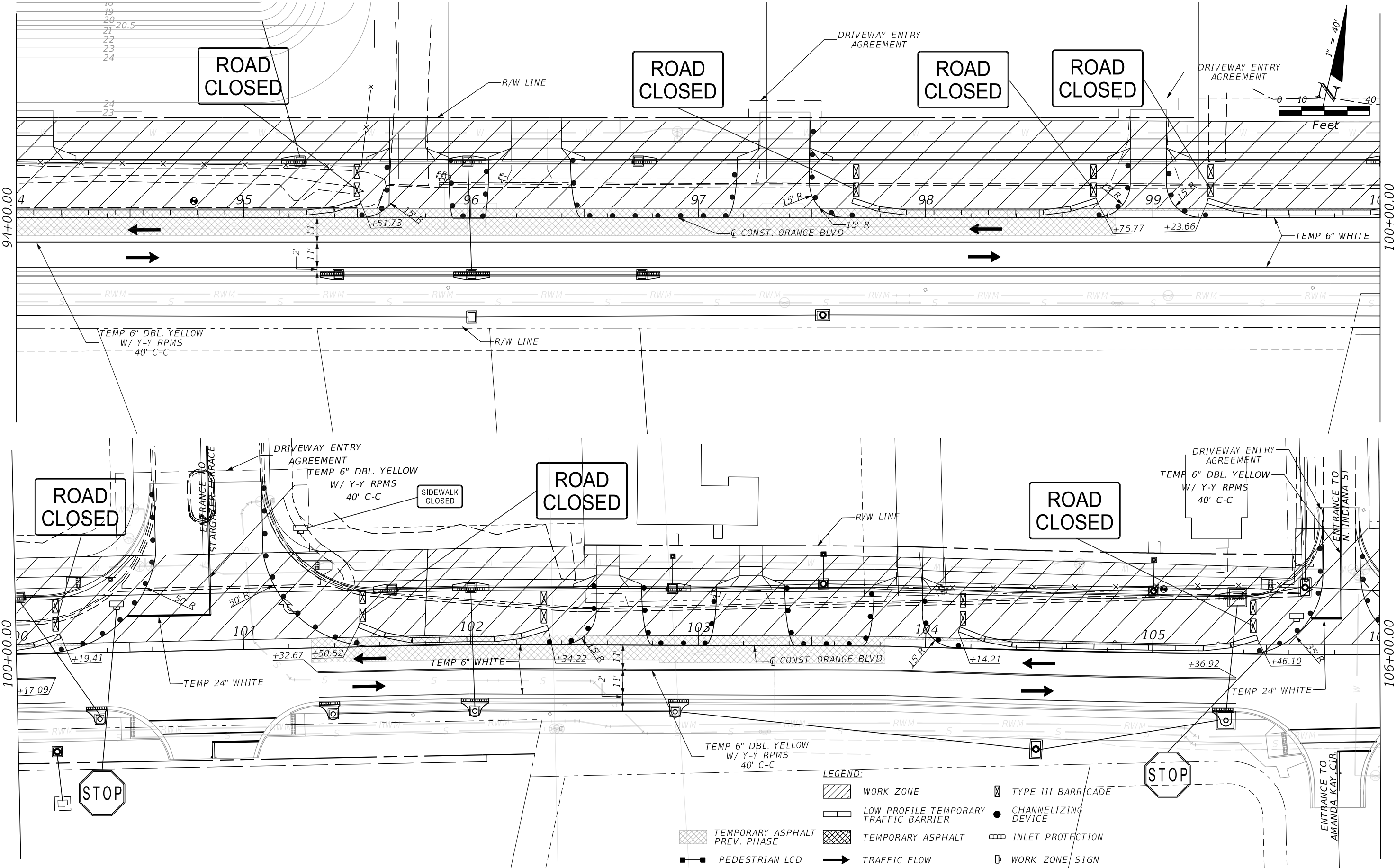
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<b>TCP PLAN PHASE III</b>		SHEET NO. 354
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10/10/2022 4:02:50 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD308.dgn



**LEGEND:**

WORK ZONE	TYPE III BARRICADE
LOW PROFILE TEMPORARY TRAFFIC BARRIER	CHANNELIZING DEVICE
TEMPORARY ASPHALT PREV. PHASE	INLET PROTECTION
PEDESTRIAN LCD	WORK ZONE SIGN
TRAFFIC FLOW	

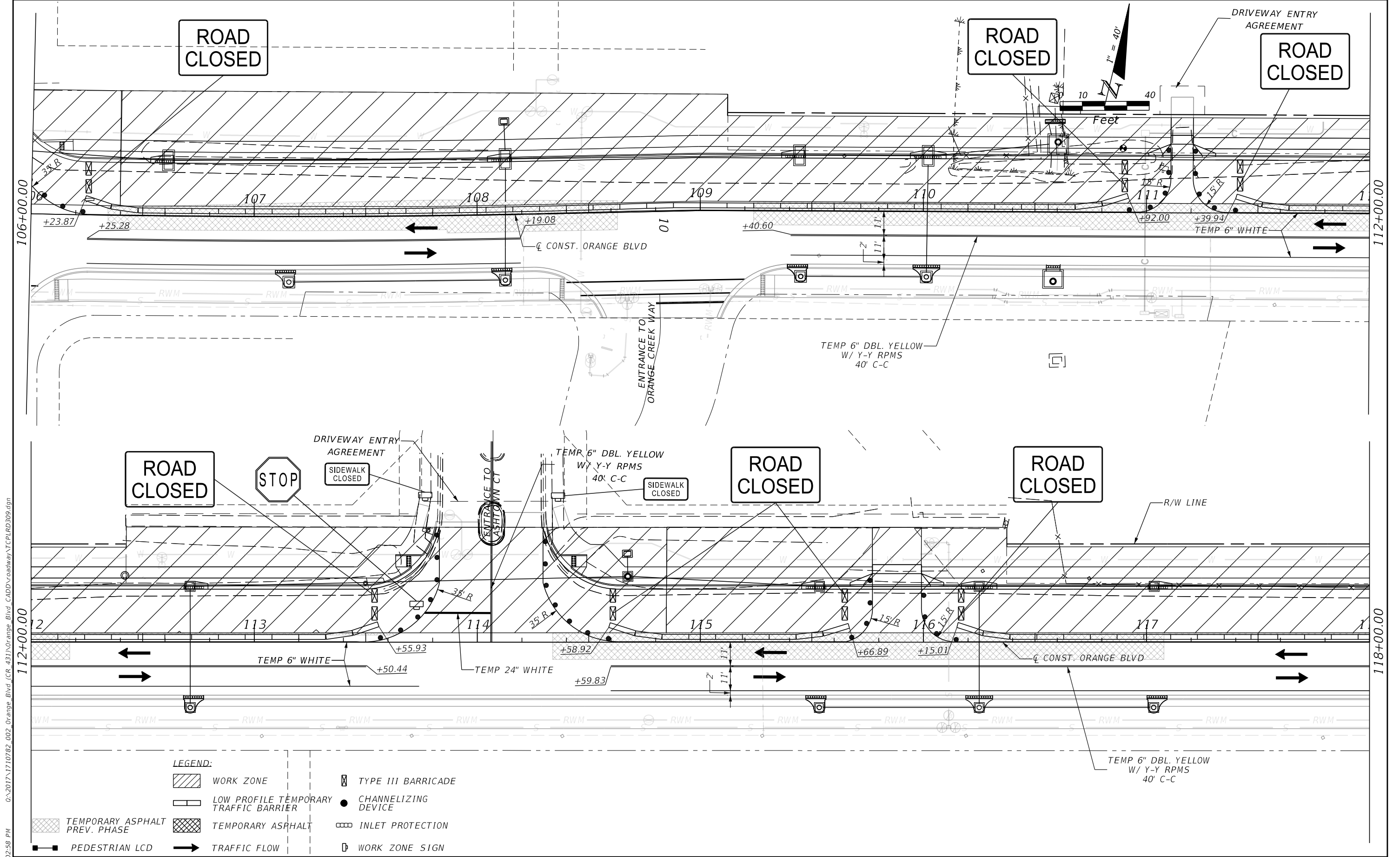
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE III**

SHEET NO.  
**355**



**LEGEND:**

WORK ZONE	TYPE III BARRICADE
LOW PROFILE TEMPORARY TRAFFIC BARRIER	CHANNELIZING DEVICE
TEMPORARY ASPHALT PREV. PHASE	INLET PROTECTION
TEMPORARY ASPHALT	WORK ZONE SIGN
PEDESTRIAN LCD	TRAFFIC FLOW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

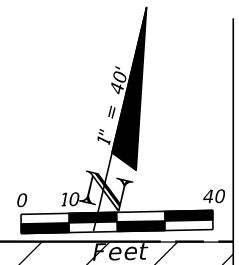
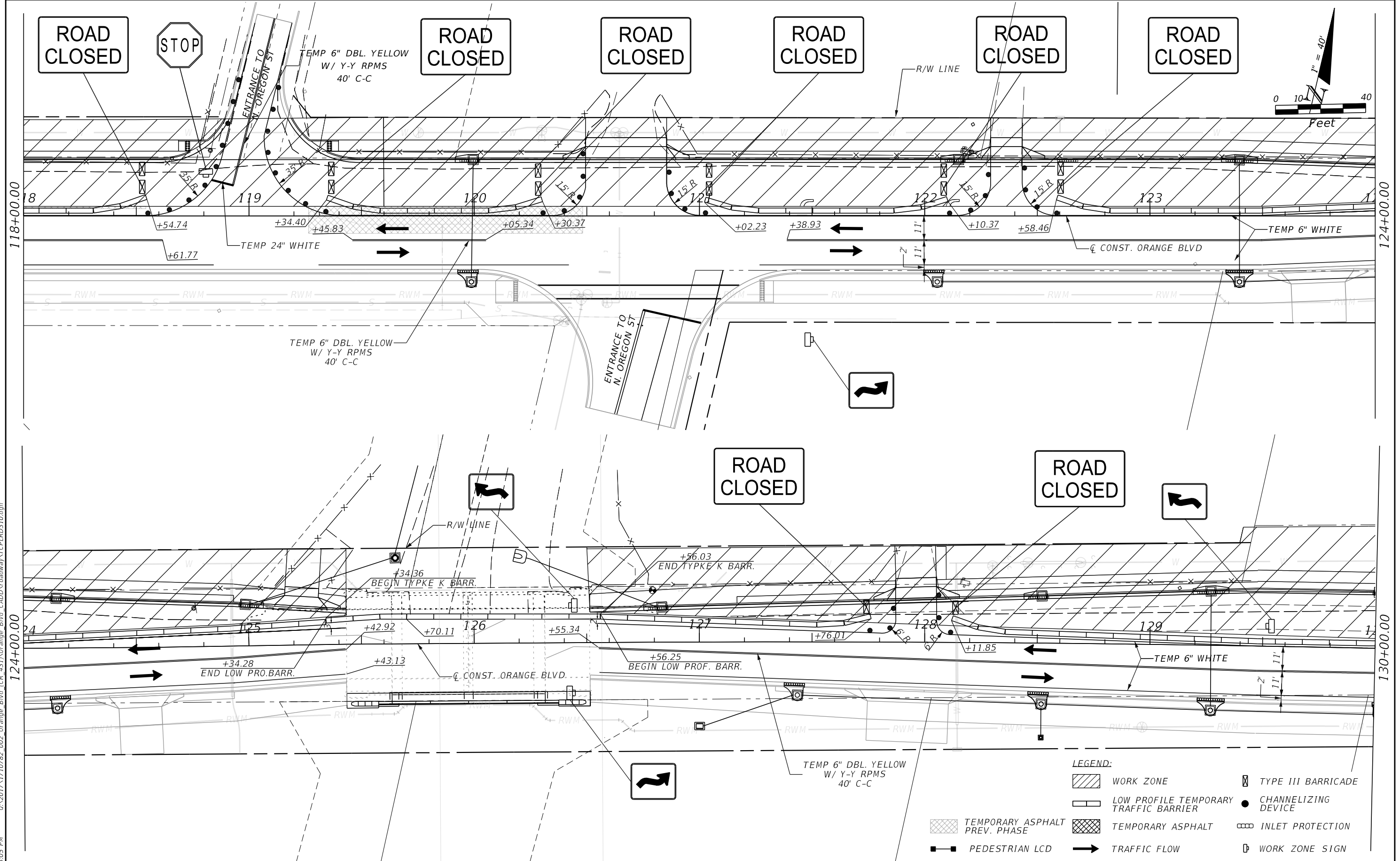
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE III**

SHEET NO.  
 356

10/10/2022 4:02:58 PM G:\2017\1710782\_002\_Orange\_Bldv\_(CR\_431)\Orange\_Bldv\_CADD\roadway\TCPLRD309.dgn

10/10/2022 4:03:05 PM O:\2017\1710782\_002\_Orange\_Bldv\_(CR\_431)\Orange\_Bldv\_CADD\roadway\TCPLRD310.dgn



**LEGEND:**

	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT PREV. PHASE		INLET PROTECTION
	TEMPORARY ASPHALT		WORK ZONE SIGN
	PEDESTRIAN LCD		
	TRAFFIC FLOW		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

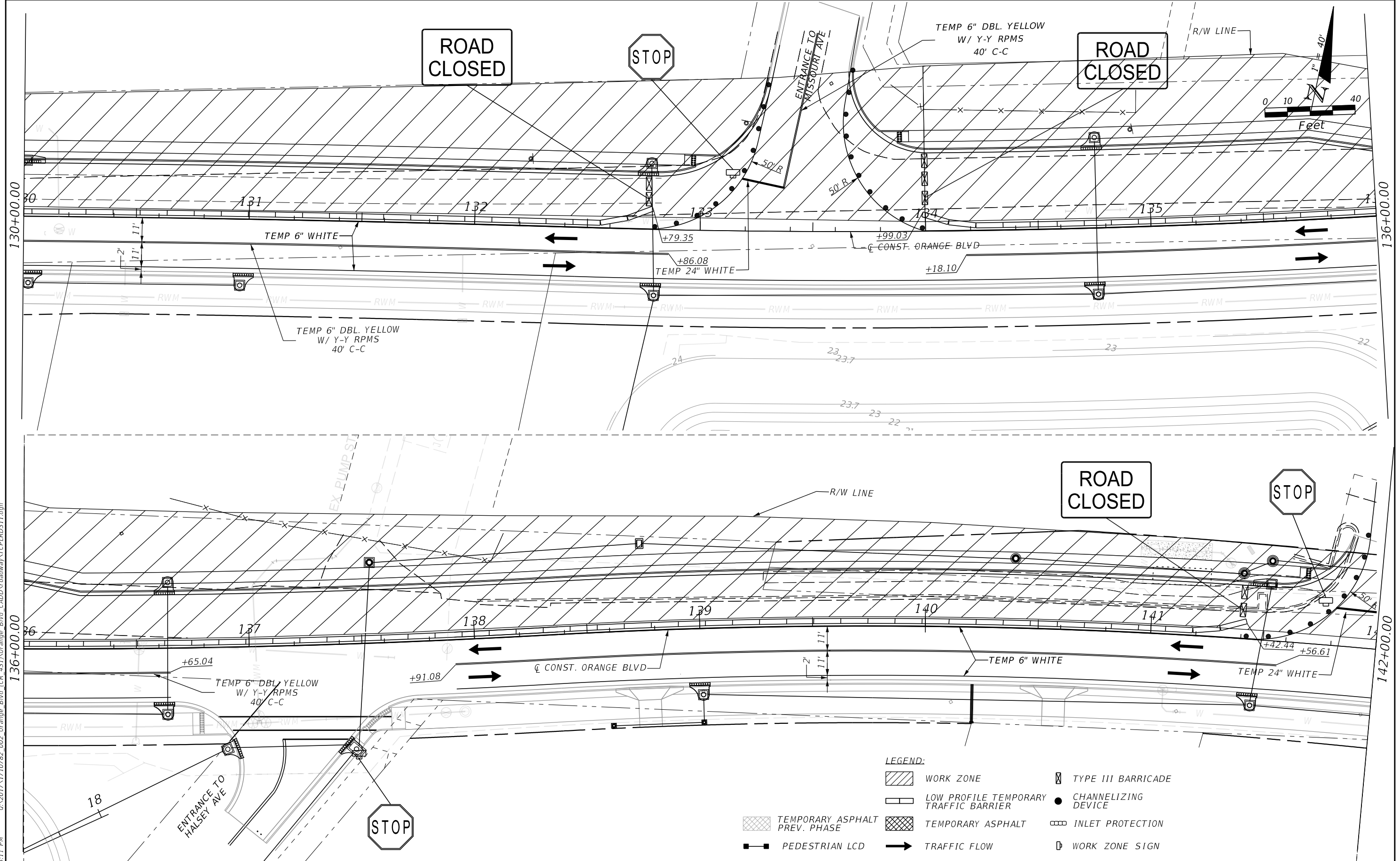
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE III**

SHEET NO.  
357

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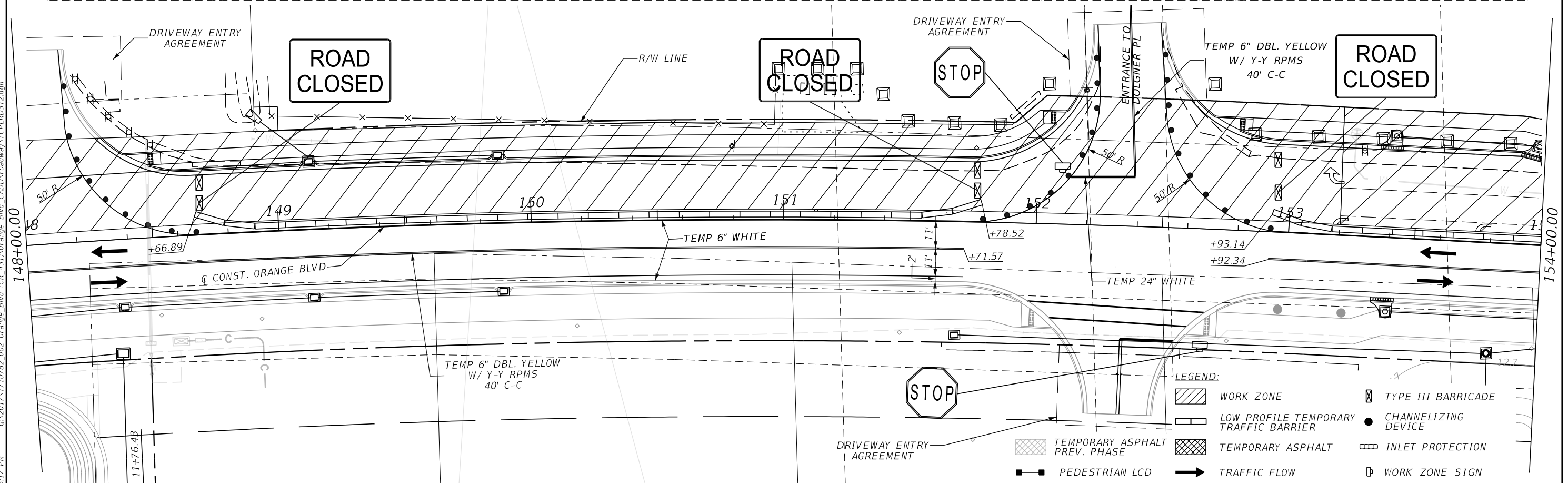
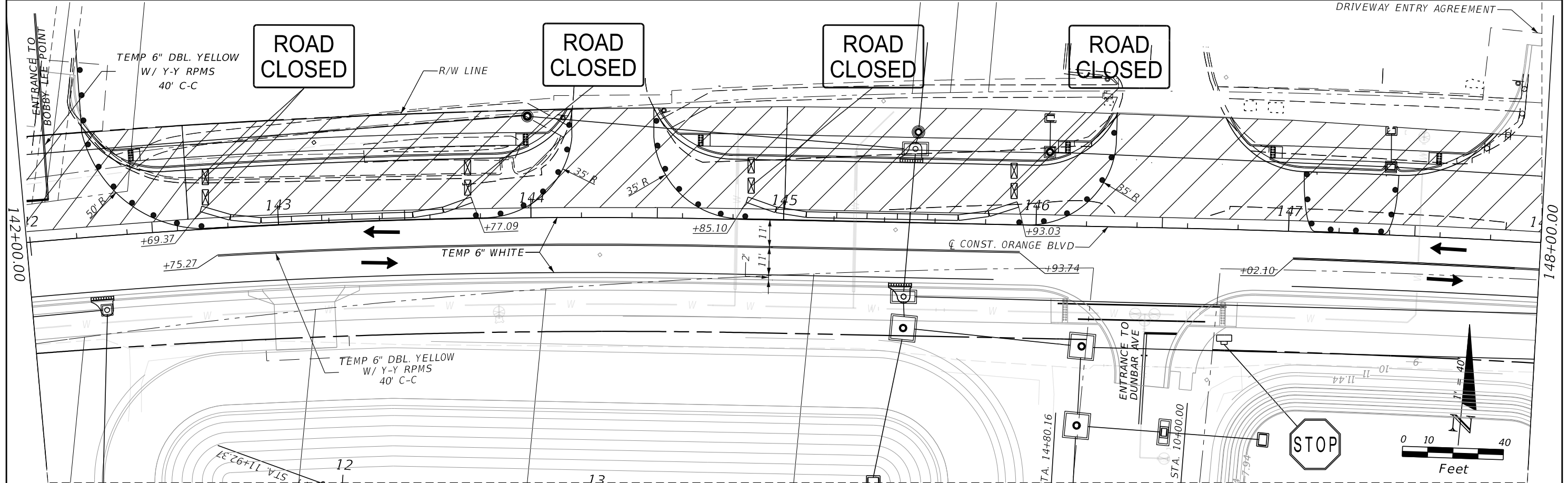


REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<p><b>TCP PLAN  PHASE III</b></p>	<p>SHEET  NO.  <b>358</b></p>
---------------------------------------	---------------------------------------



- LEGEND:**
- WORK ZONE
  - LOW PROFILE TEMPORARY TRAFFIC BARRIER
  - TEMPORARY ASPHALT PREV. PHASE
  - TEMPORARY ASPHALT
  - PEDESTRIAN LCD
  - TRAFFIC FLOW
  - TYPE III BARRICADE
  - CHANNELIZING DEVICE
  - INLET PROTECTION
  - WORK ZONE SIGN

REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

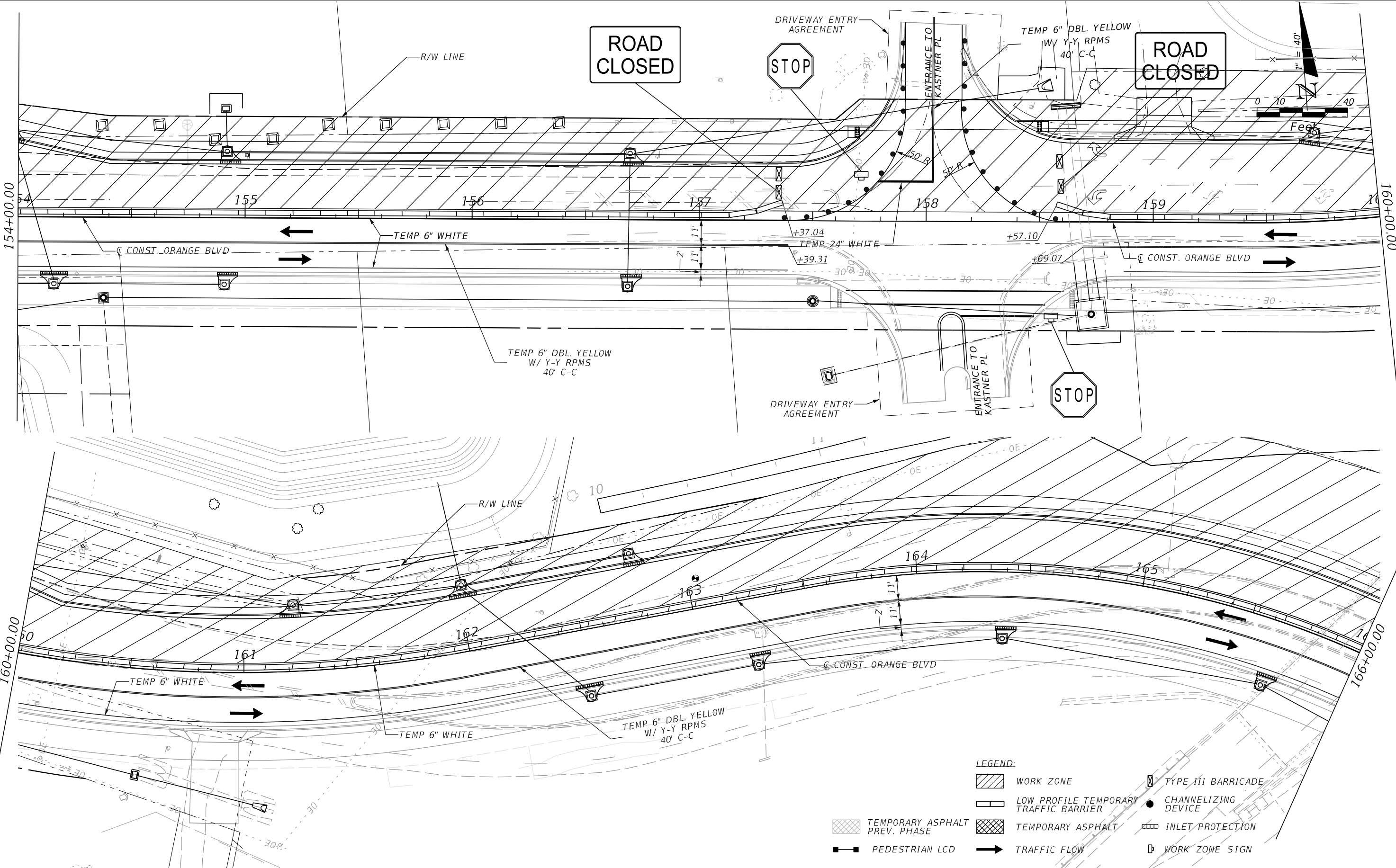
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE III**

SHEET NO.  
359

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10/10/2022 4:03:24 PM O:\2017\1710782\_002\_Orange\_Bldv\_(CR\_431)\Orange\_Bldv\_CADD\roadway\TCPLRD313.dgn



**LEGEND:**

	WORK ZONE		TYPE III BARRICADE
	LOW PROFILE TEMPORARY TRAFFIC BARRIER		CHANNELIZING DEVICE
	TEMPORARY ASPHALT PREV. PHASE		INLET PROTECTION
	PEDESTRIAN LCD		WORK ZONE SIGN
	TRAFFIC FLOW		

REVISIONS		DATE	DESCRIPTION
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

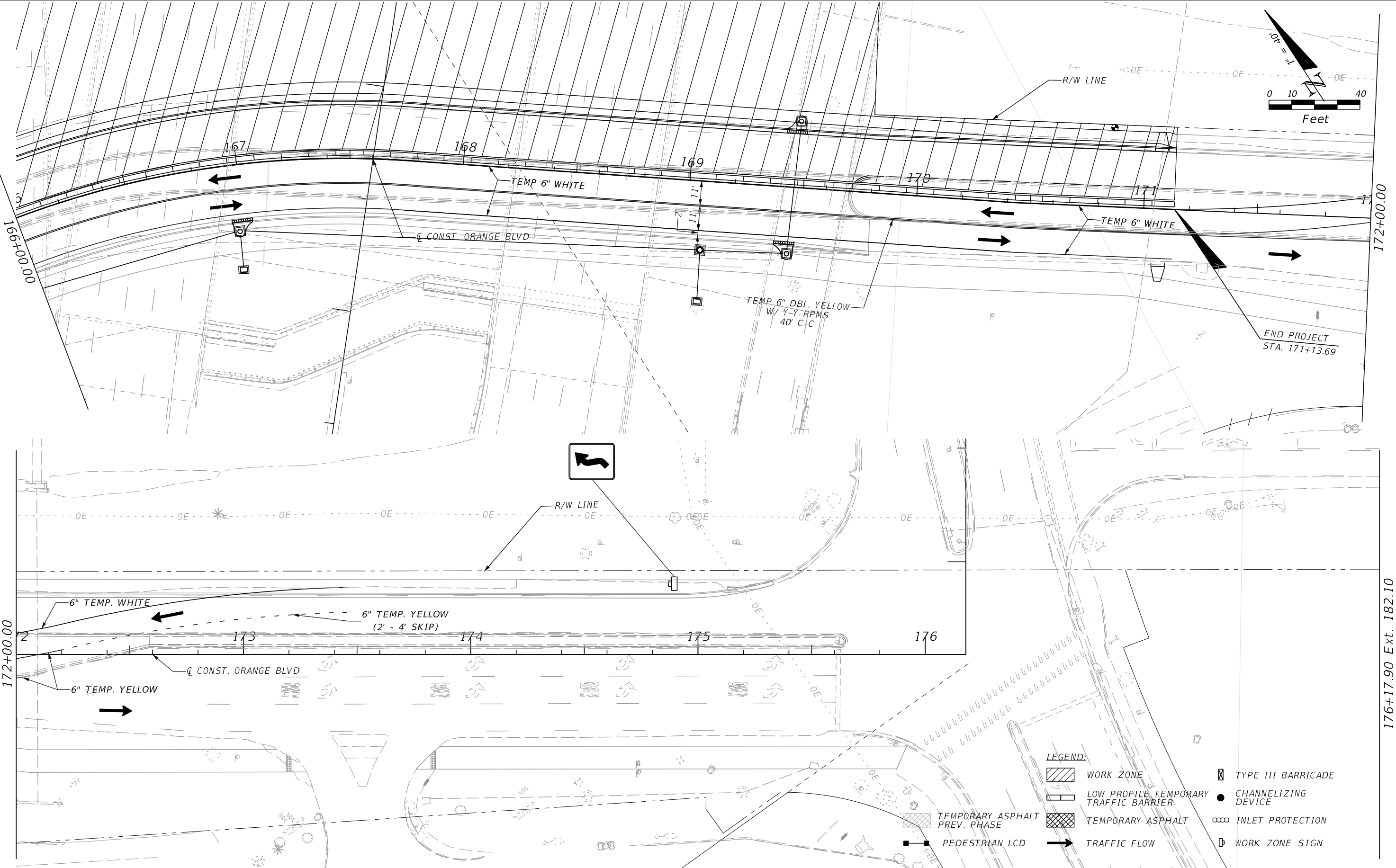
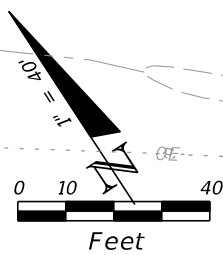
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE III**

SHEET NO.  
 360





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REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE III**

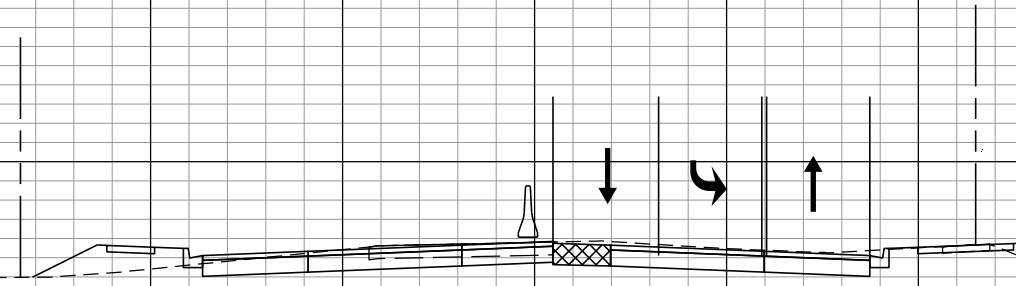
SHEET NO.  
 361

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74  
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STA. 12+00.00

76  
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72  
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STA. 11+00.00



REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

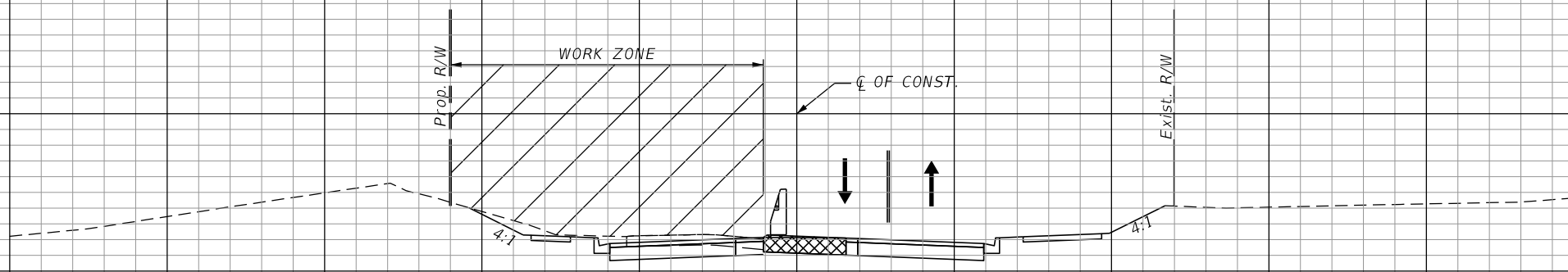
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

SHEET NO.  
362

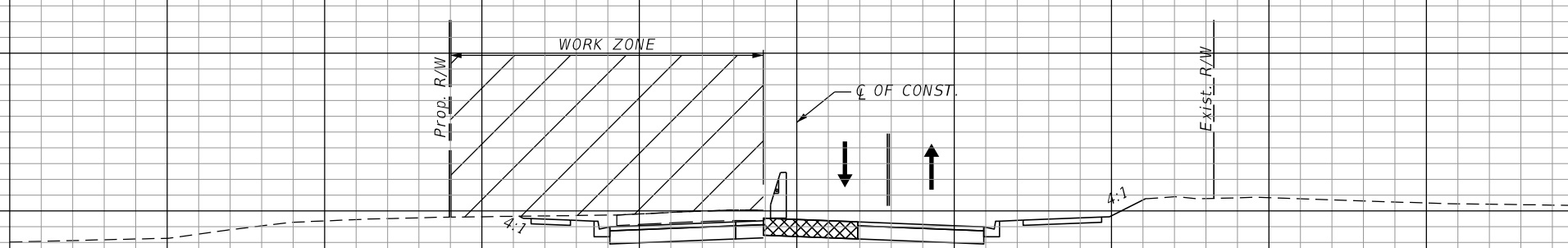


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62  
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58



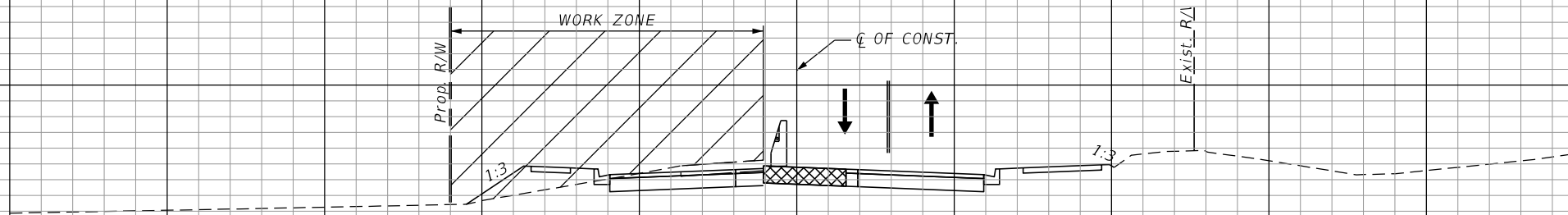
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STA. 17+00.00

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STA. 14+00.00

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

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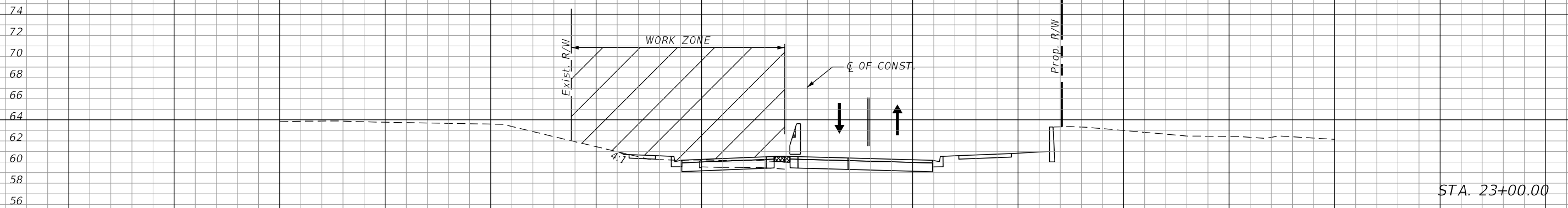
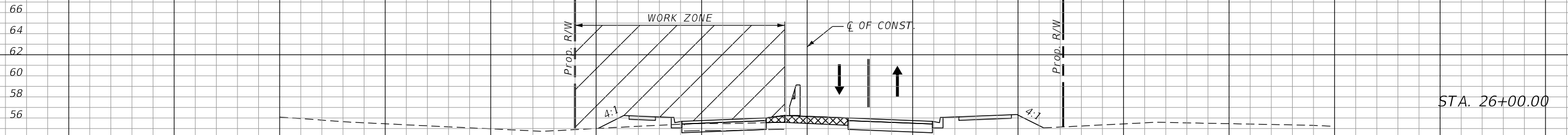
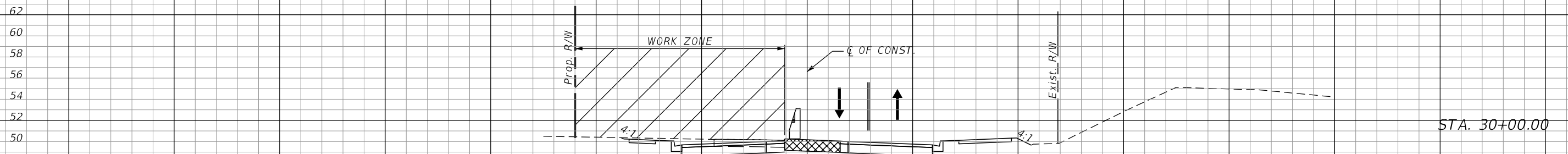
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
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LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

SHEET NO.  
363



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

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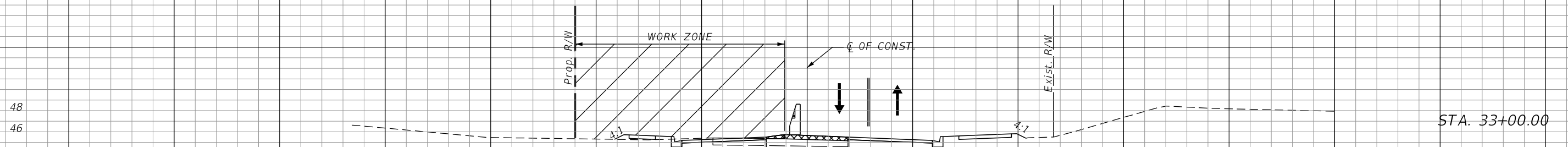
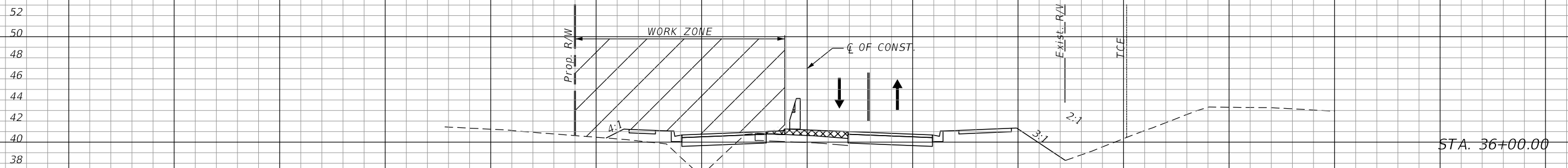
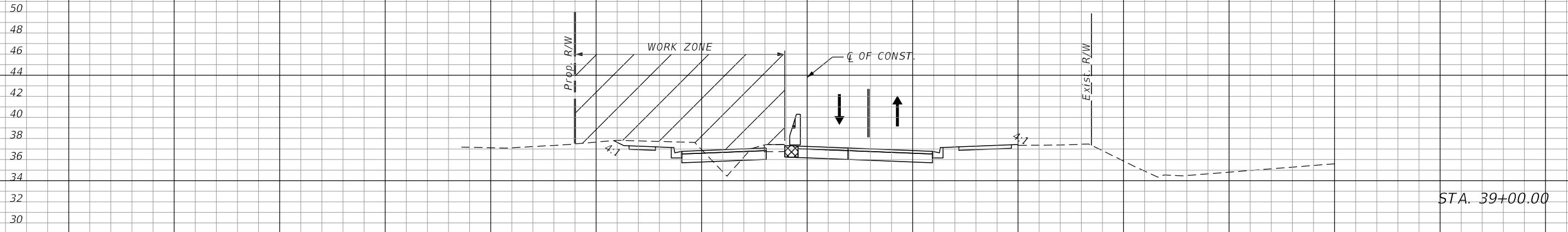
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

SHEET NO.  
364



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

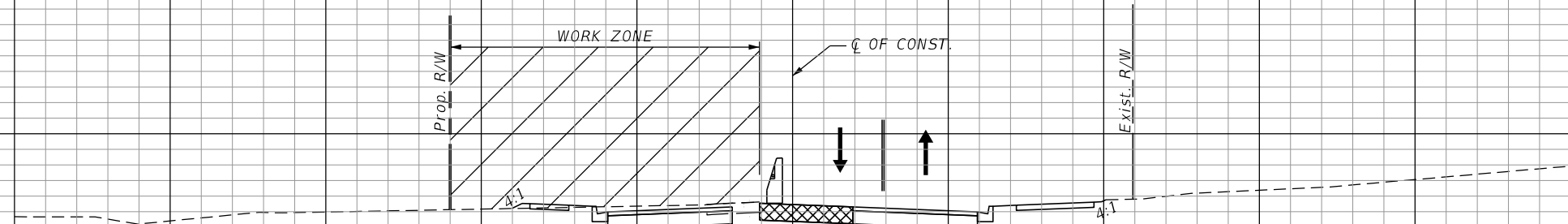
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

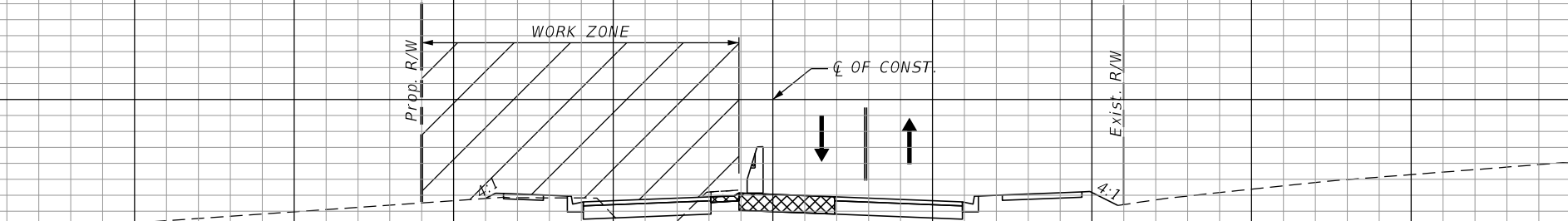
SHEET NO.  
365

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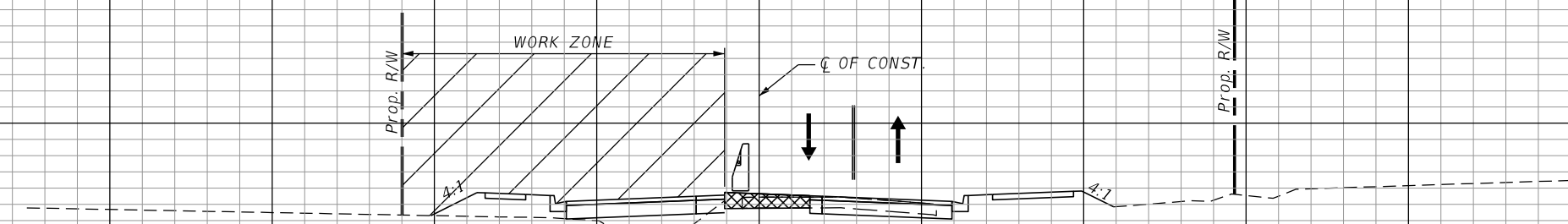
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STA. 45+00.00

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STA. 42+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

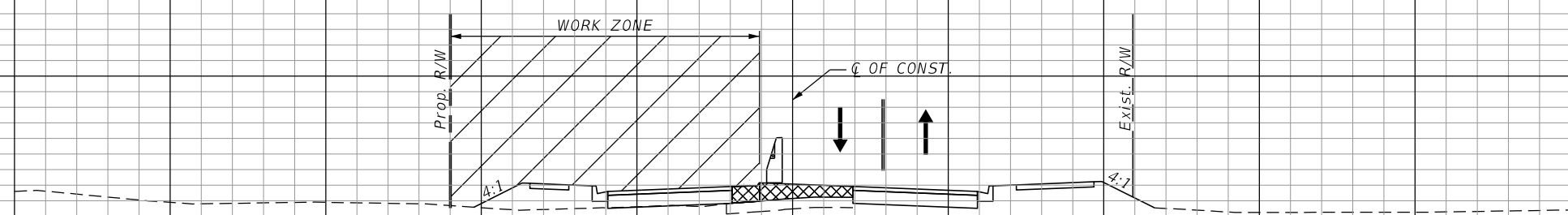
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

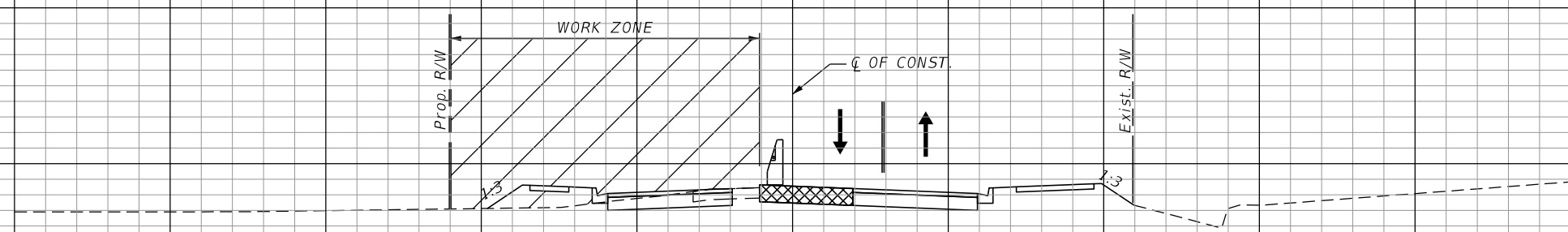
SHEET NO.  
366

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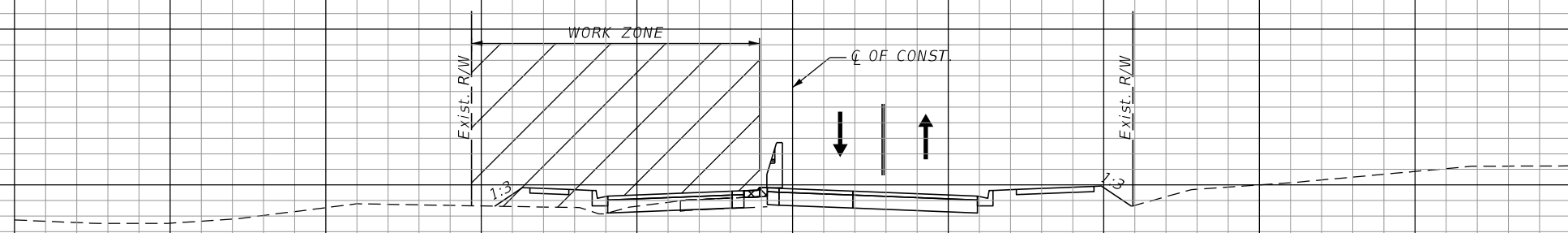
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STA. 55+00.00

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22



STA. 51+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

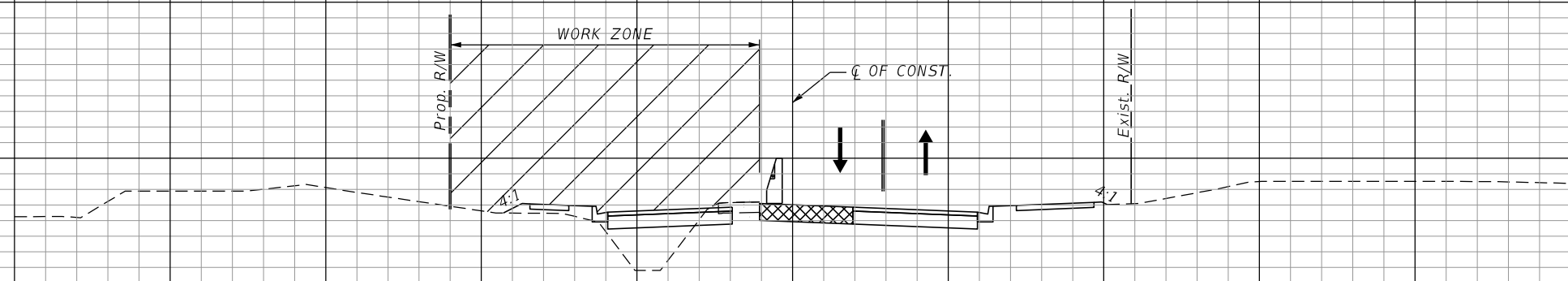
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

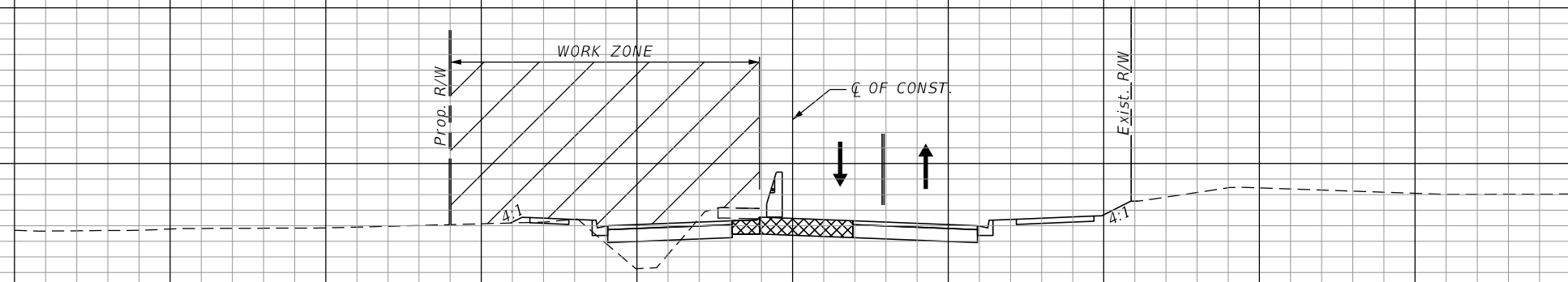
SHEET NO.  
367

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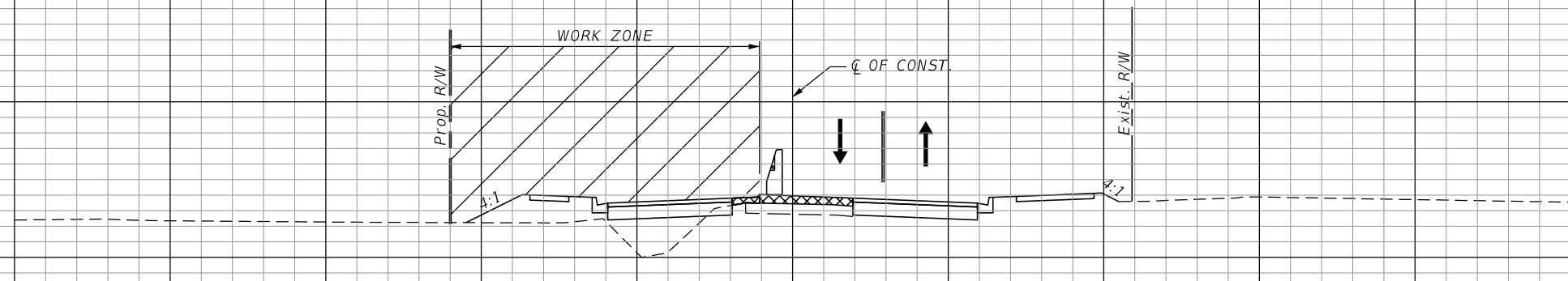
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STA. 63+00.00

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STA. 60+00.00

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

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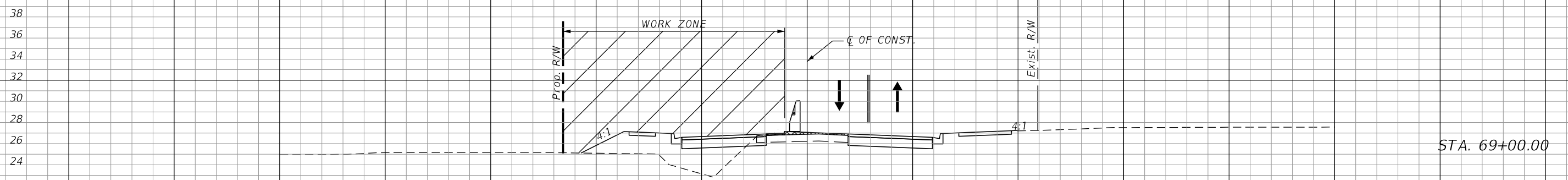
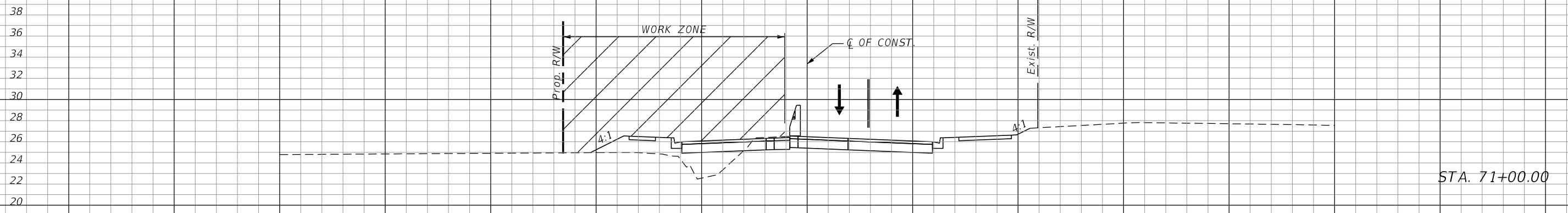
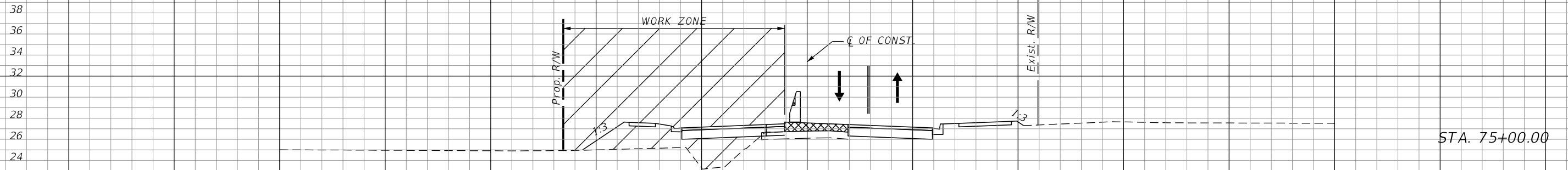
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

SHEET NO.  
368



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

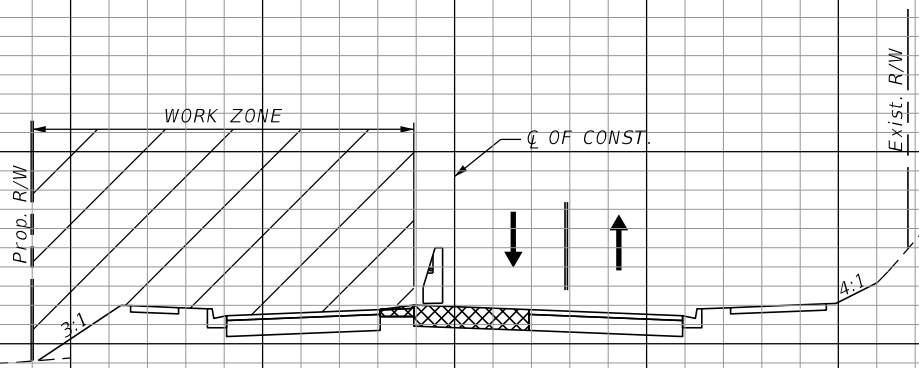
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

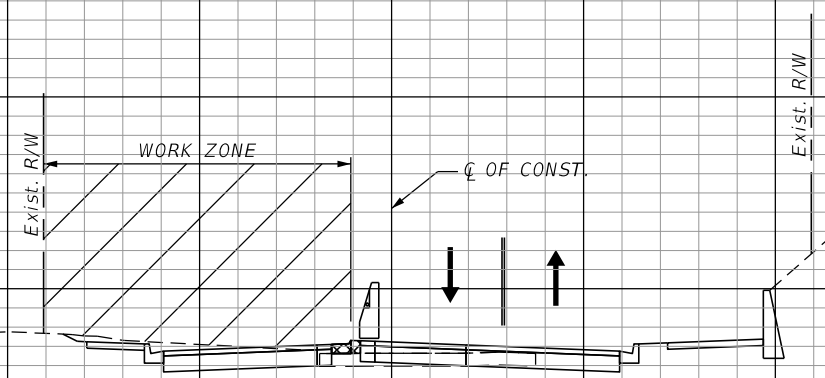
SHEET NO.  
369

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STA. 81+00.00

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STA. 78+00.00

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

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REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

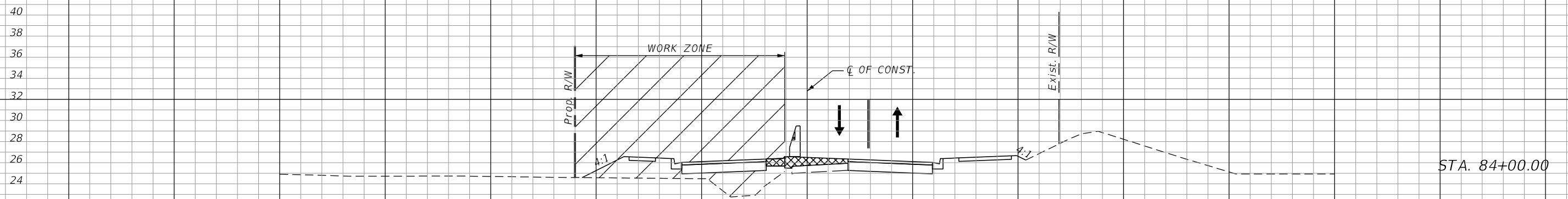
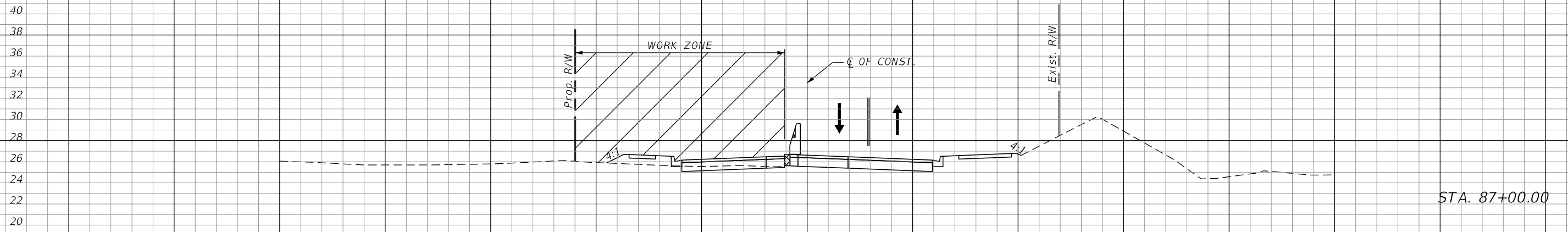
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

SHEET NO.  
370





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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

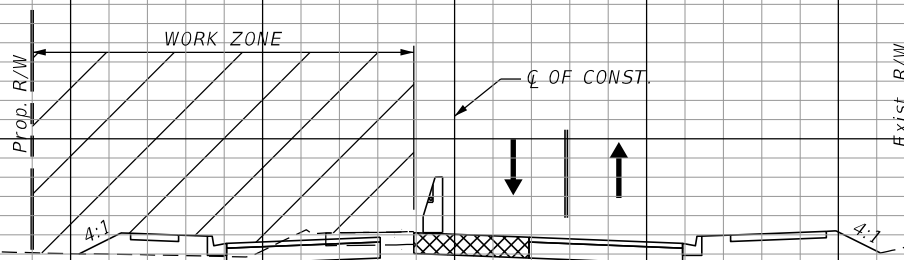
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
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615 CRESCENT EXECUTIVE COURT, SUITE 106  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

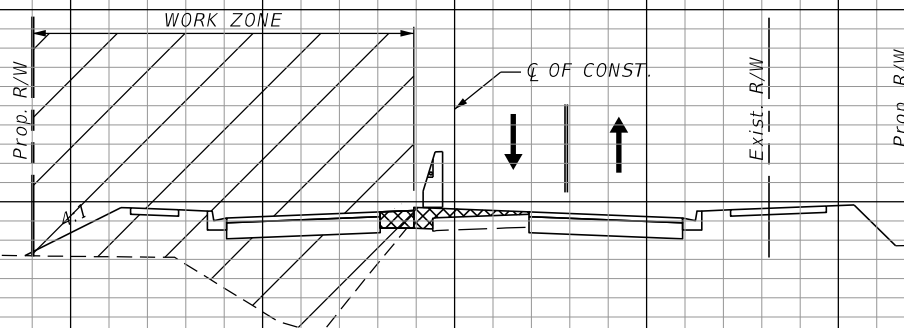
SHEET NO.  
371

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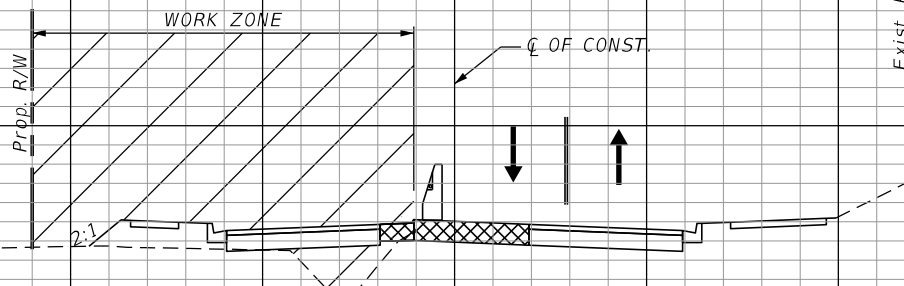
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STA. 93+00.00

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STA. 91+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

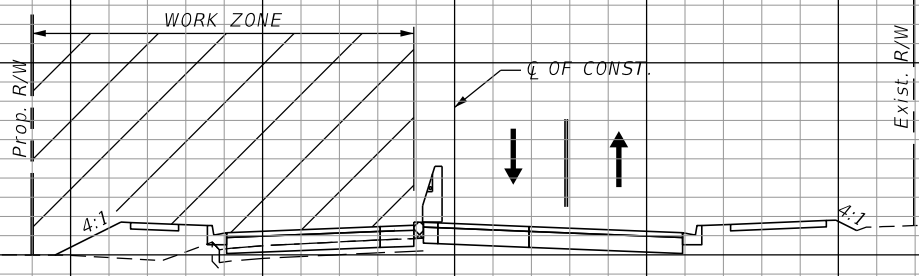
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS**  
**PHASE III**

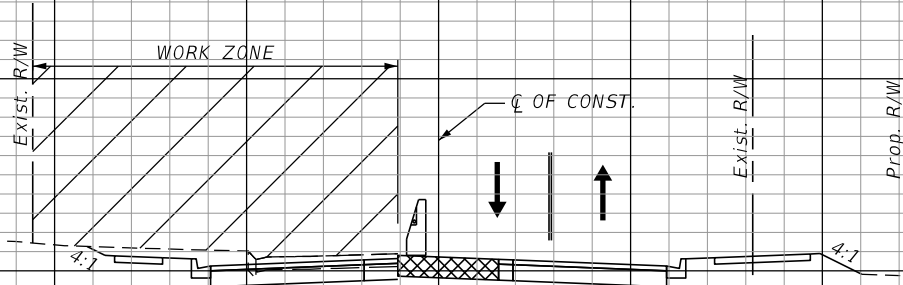
SHEET NO.  
 372

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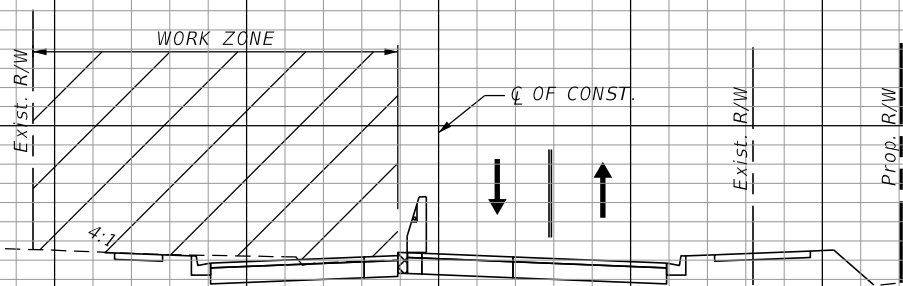
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STA. 102+00.00

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STA. 100+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

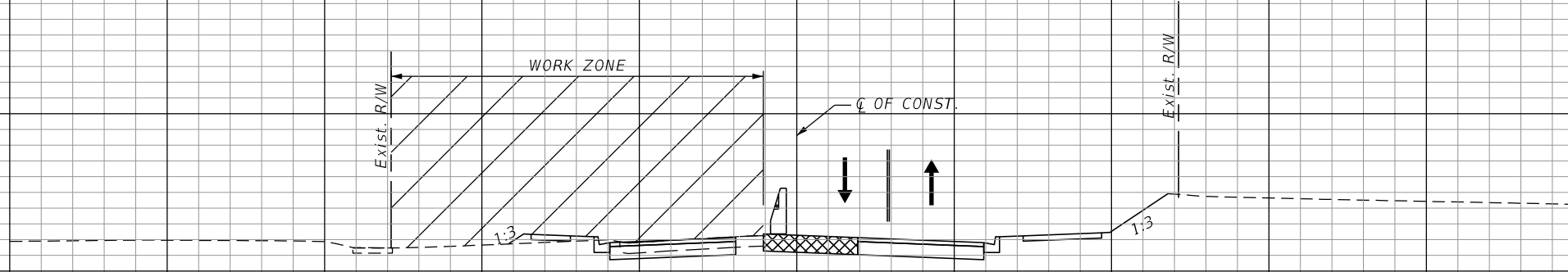
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

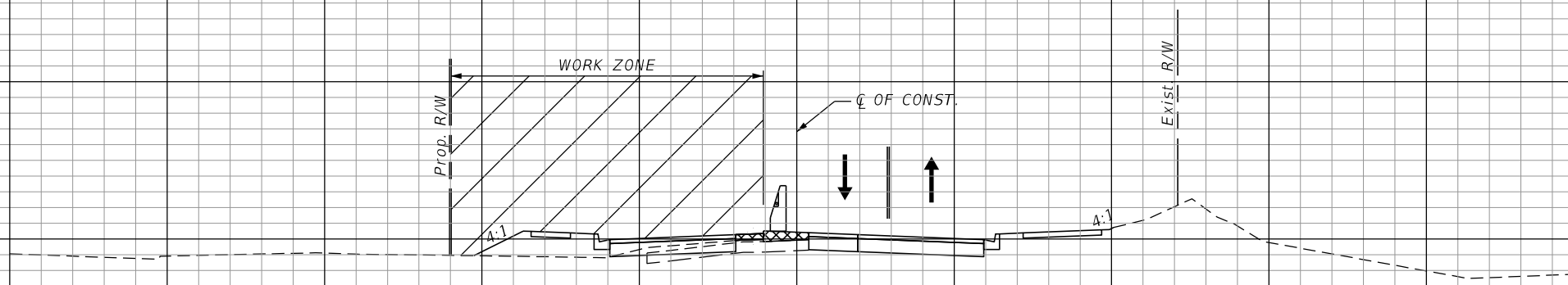
SHEET NO.  
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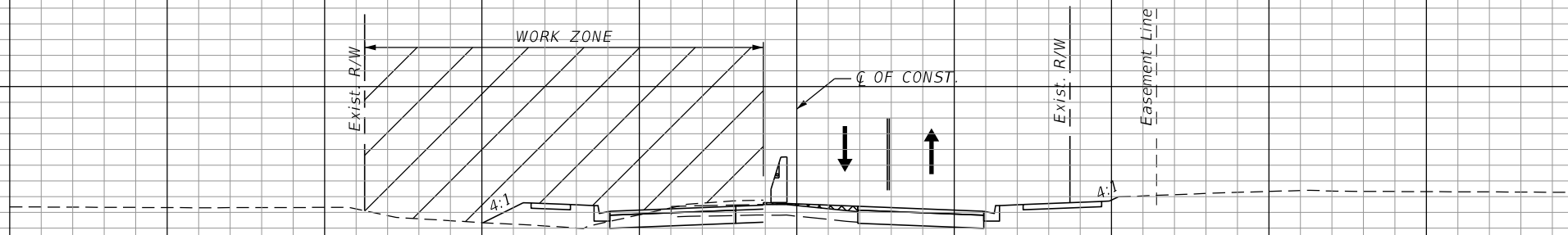
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STA. 112+00.00

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STA. 108+00.00

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

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REVISIONS	
DATE	DESCRIPTION

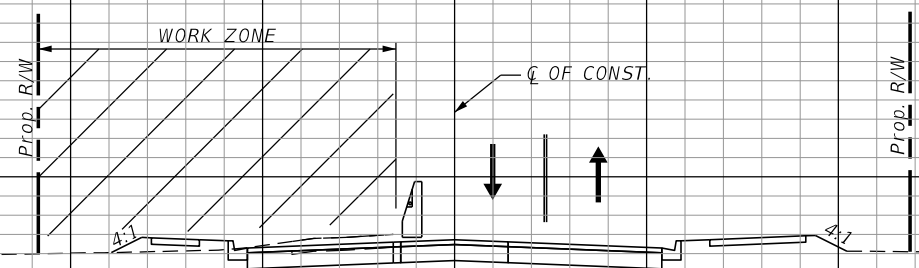
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
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SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

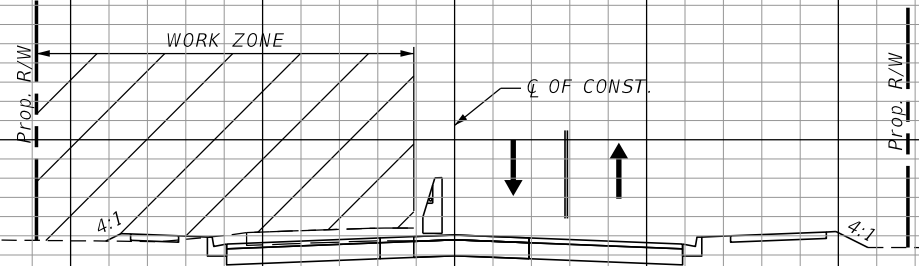
SHEET NO.  
374

34  
32  
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28  
26  
24  
22  
20  
18  
16



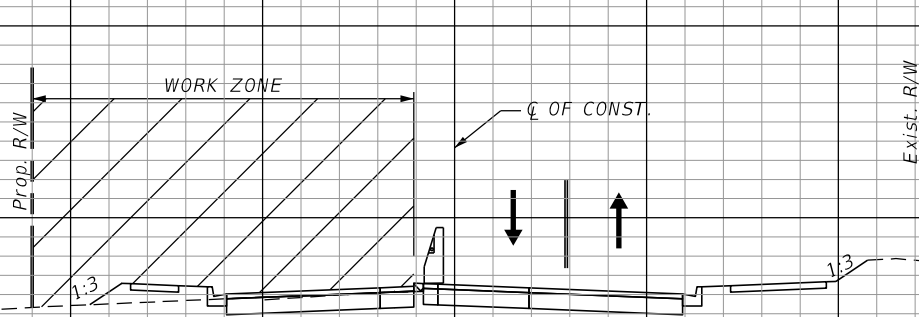
STA. 124+00.00

34  
32  
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28  
26  
24  
22



STA. 122+00.00

38  
36  
34  
32  
30  
28  
26  
24  
22  
20



STA. 118+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

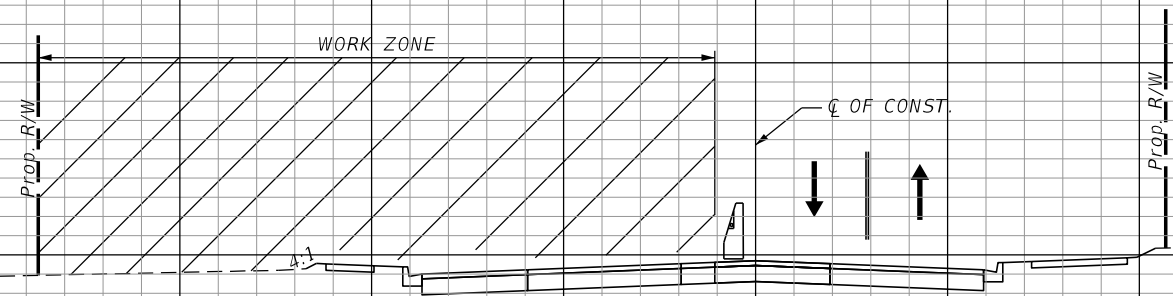
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS-SECTIONS  
PHASE III

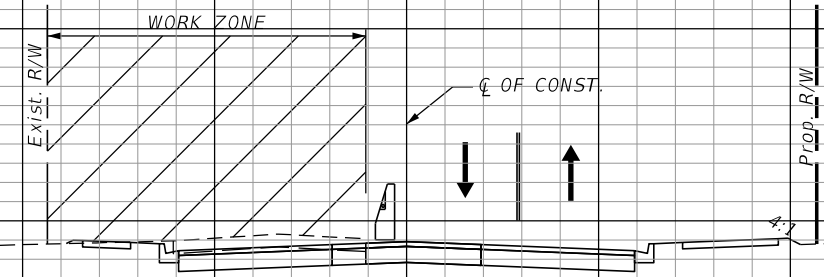
SHEET NO.  
375

34  
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20  
18  
16



STA. 135+00.00

34  
32  
30  
28  
26  
24  
22



STA. 132+00.00

34  
32  
30  
28  
26  
24  
22



STA. 129+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

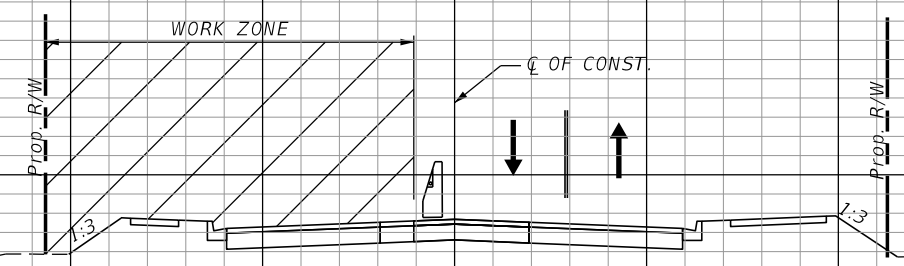
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS-SECTIONS  
PHASE III

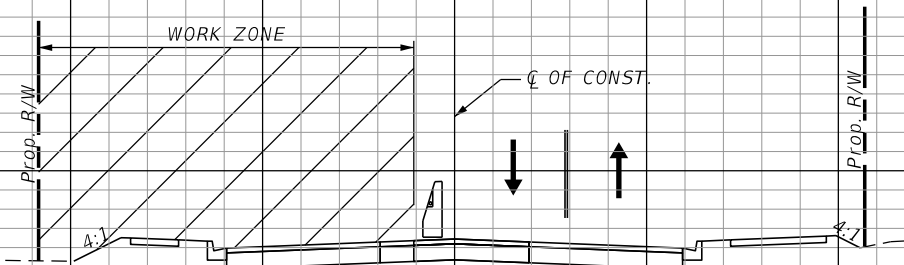
SHEET NO.  
376

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10  
8



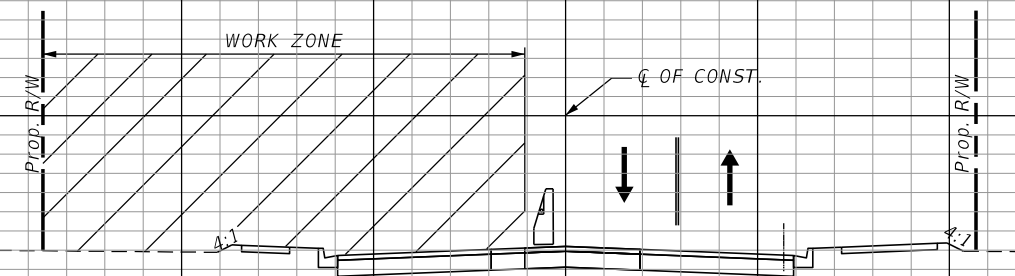
STA. 144+00.00

28  
26  
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22  
20  
18  
16  
14  
12  
10  
8



STA. 141+00.00

30  
28  
26  
24  
22  
20  
18



STA. 138+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

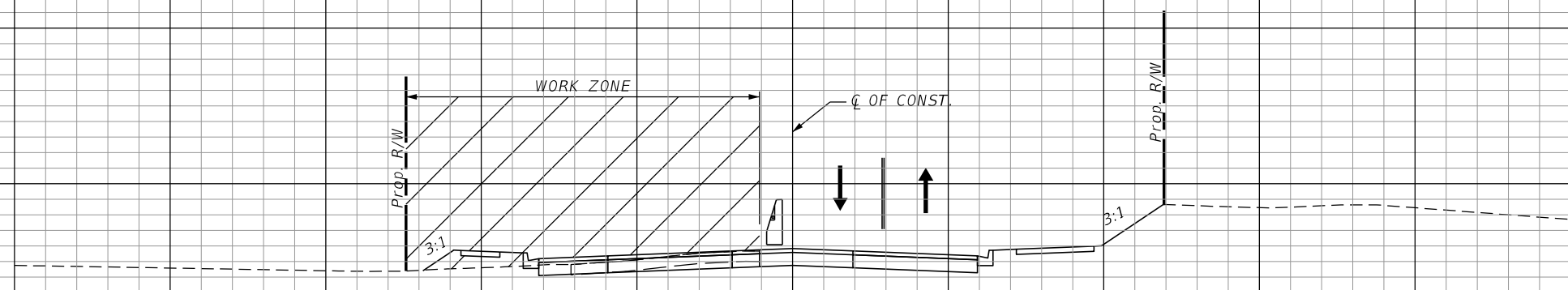
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

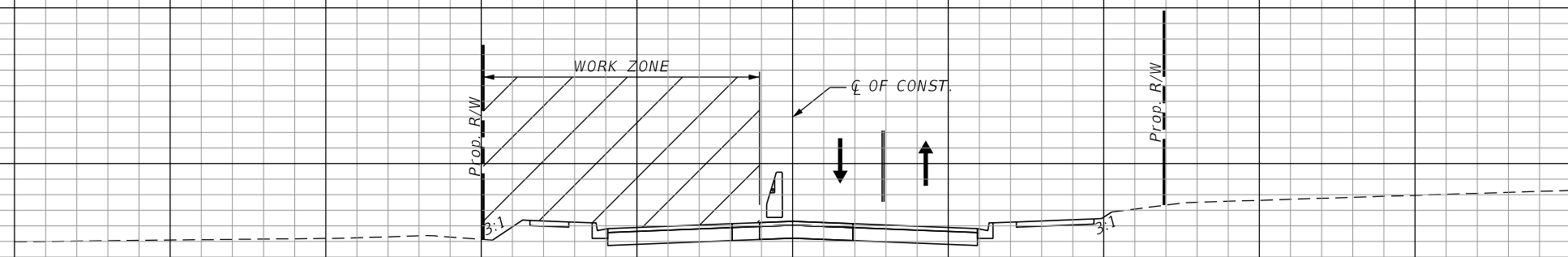
SHEET NO.  
377

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12  
10  
8  
6



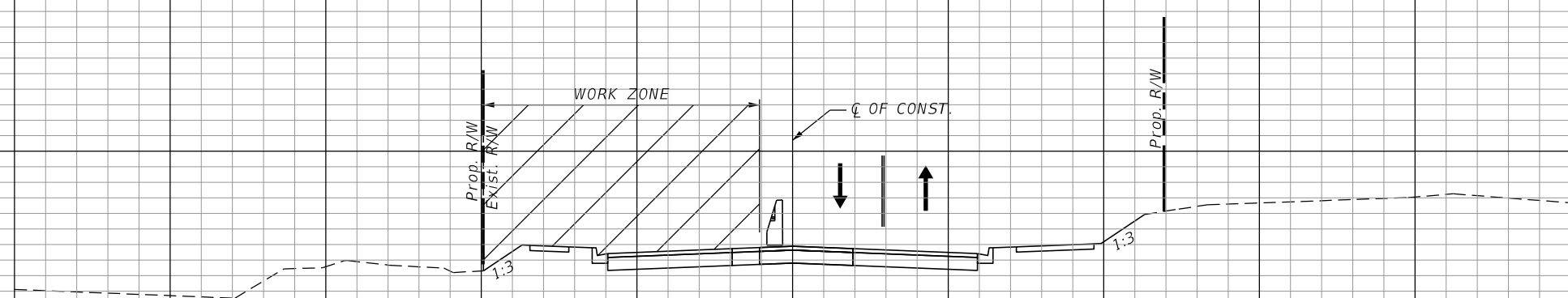
STA. 154+00.00

22  
20  
18  
16  
14  
12  
10  
8  
6



STA. 151+00.00

24  
22  
20  
18  
16  
14  
12  
10  
8



STA. 149+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

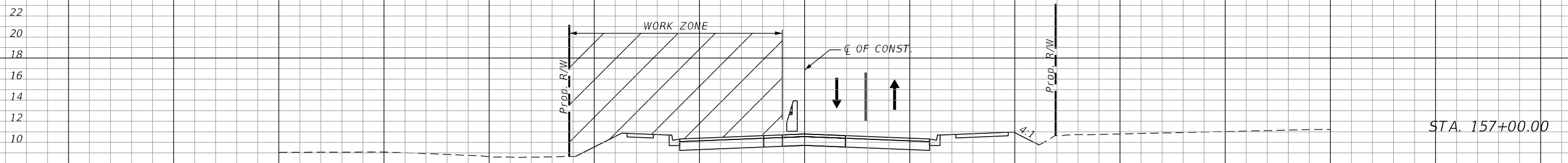
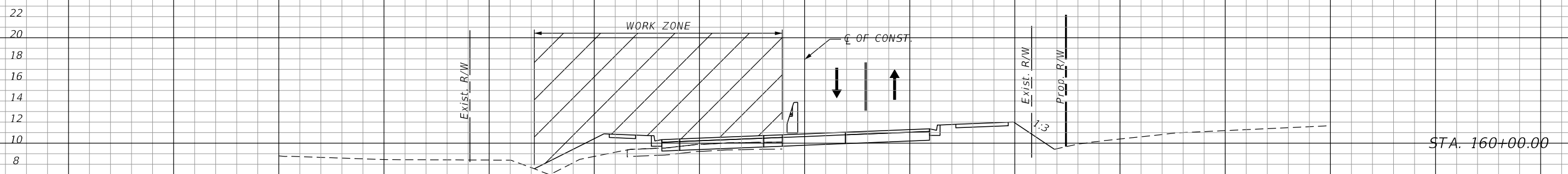
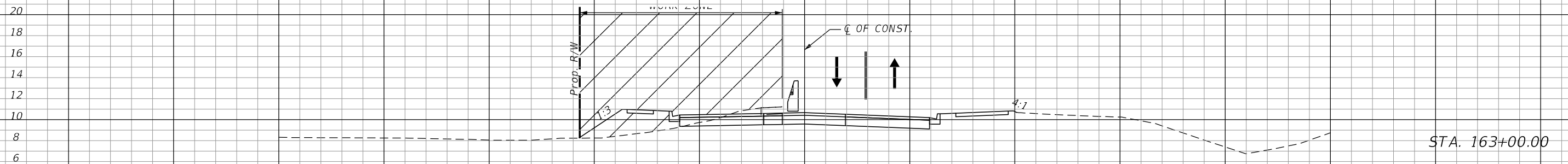
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP CROSS-SECTIONS  
PHASE III

SHEET NO.  
378





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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

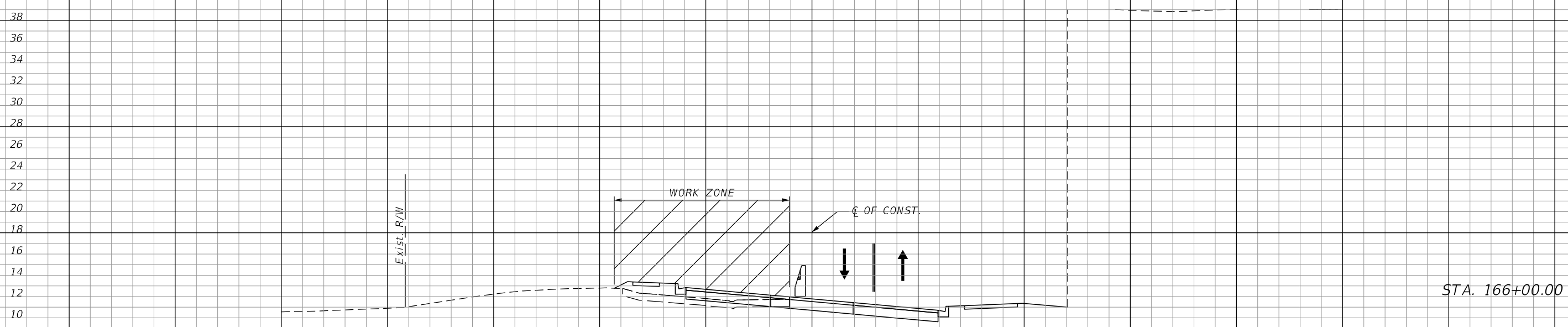
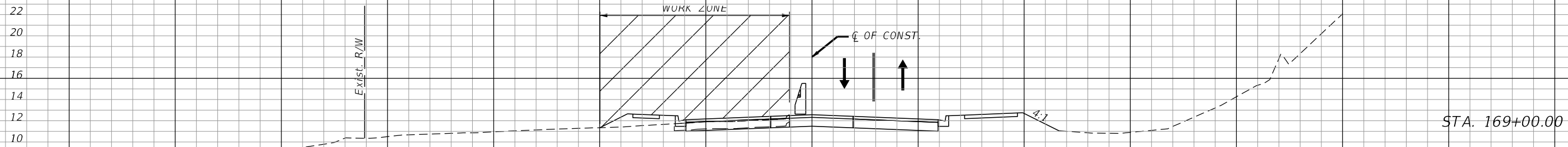
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

SHEET NO.  
379



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

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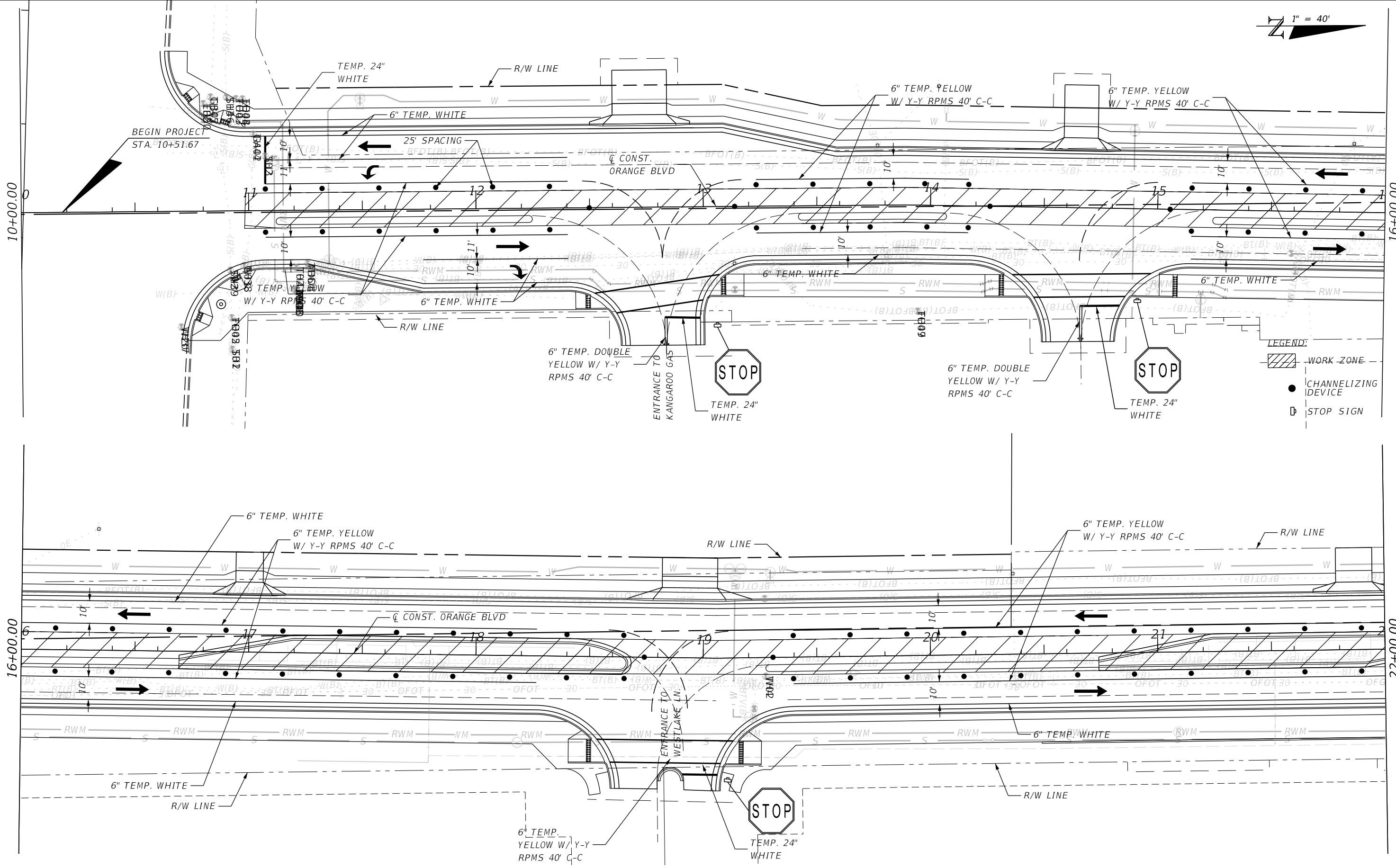
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP CROSS-SECTIONS  
PHASE III**

SHEET NO.  
380



10/10/2022 4:03:57 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD401.dgn

REVISIONS	
DATE	DESCRIPTION

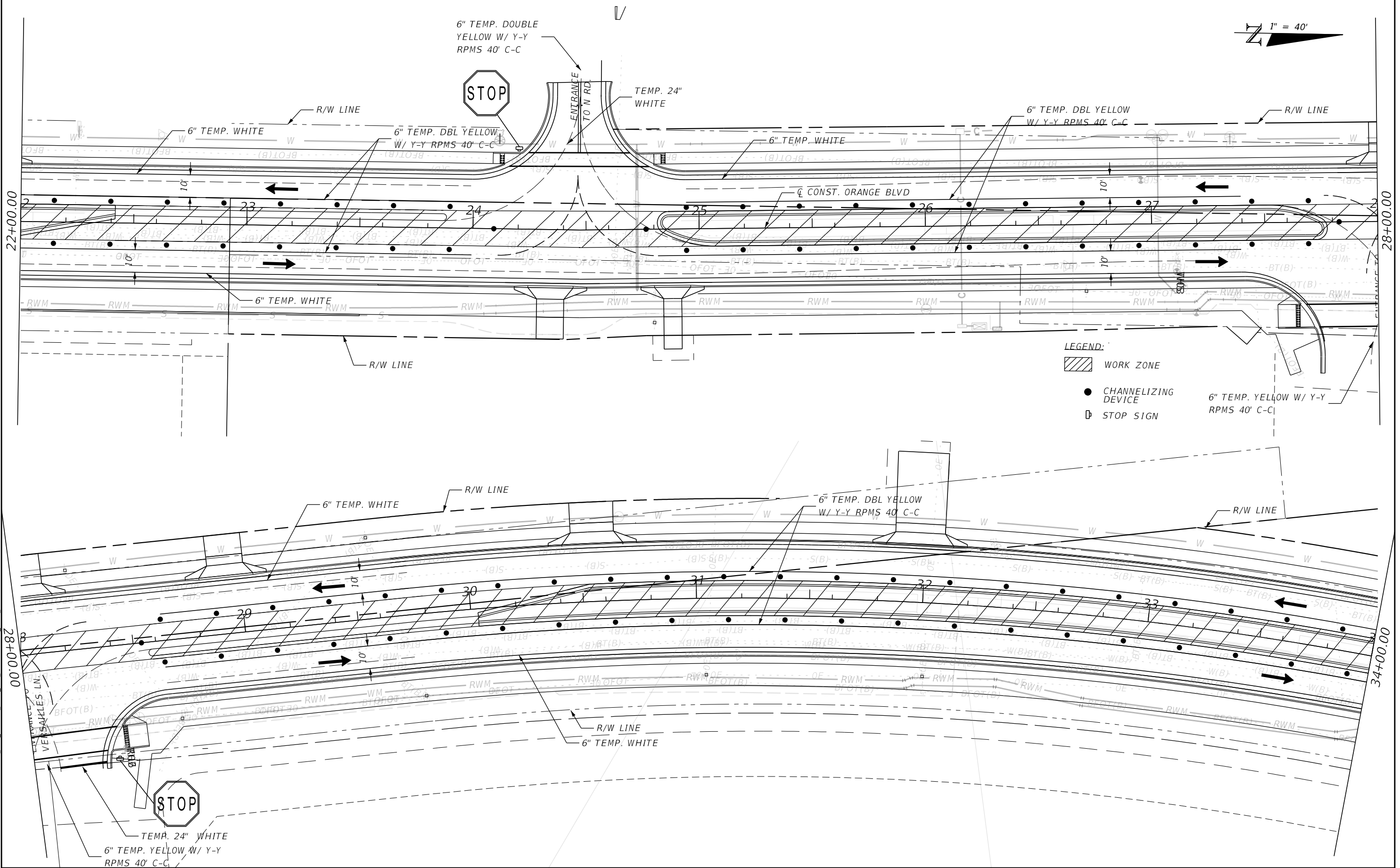
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE IV**

SHEET NO.  
**381**

1" = 40'



10/10/2022 4:04:02 PM Q:\2017\1710782\_002\_Orange\_Bldv\_CR\_431\Orange\_Bldv\_CADD\roadway\TCPLRD402.dgn

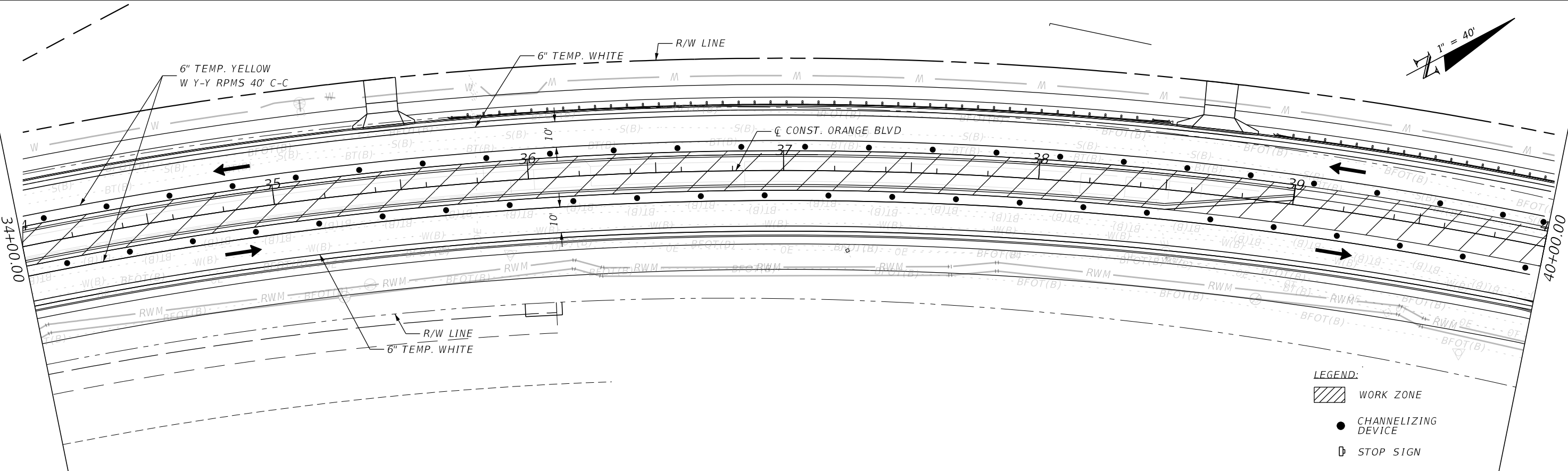
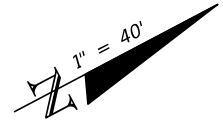
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

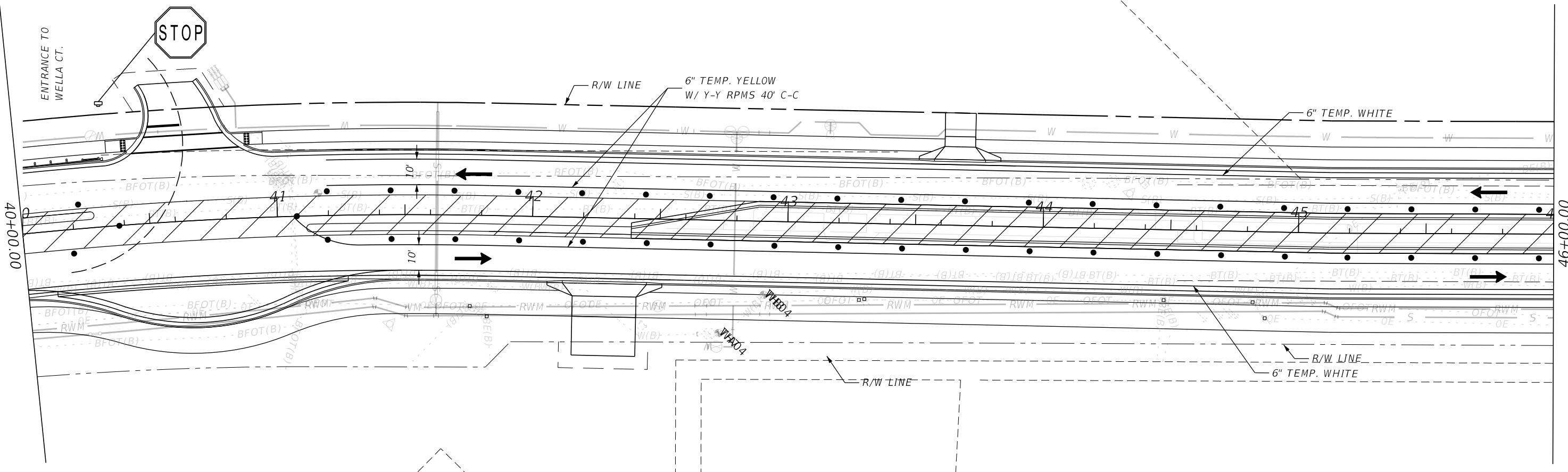
SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE IV**

SHEET NO.  
 382



- LEGEND:**
- WORK ZONE
  - CHANNELIZING DEVICE
  - STOP SIGN



10/10/2022 4:04:06 PM 0:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD403.dgn kyang

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE IV**

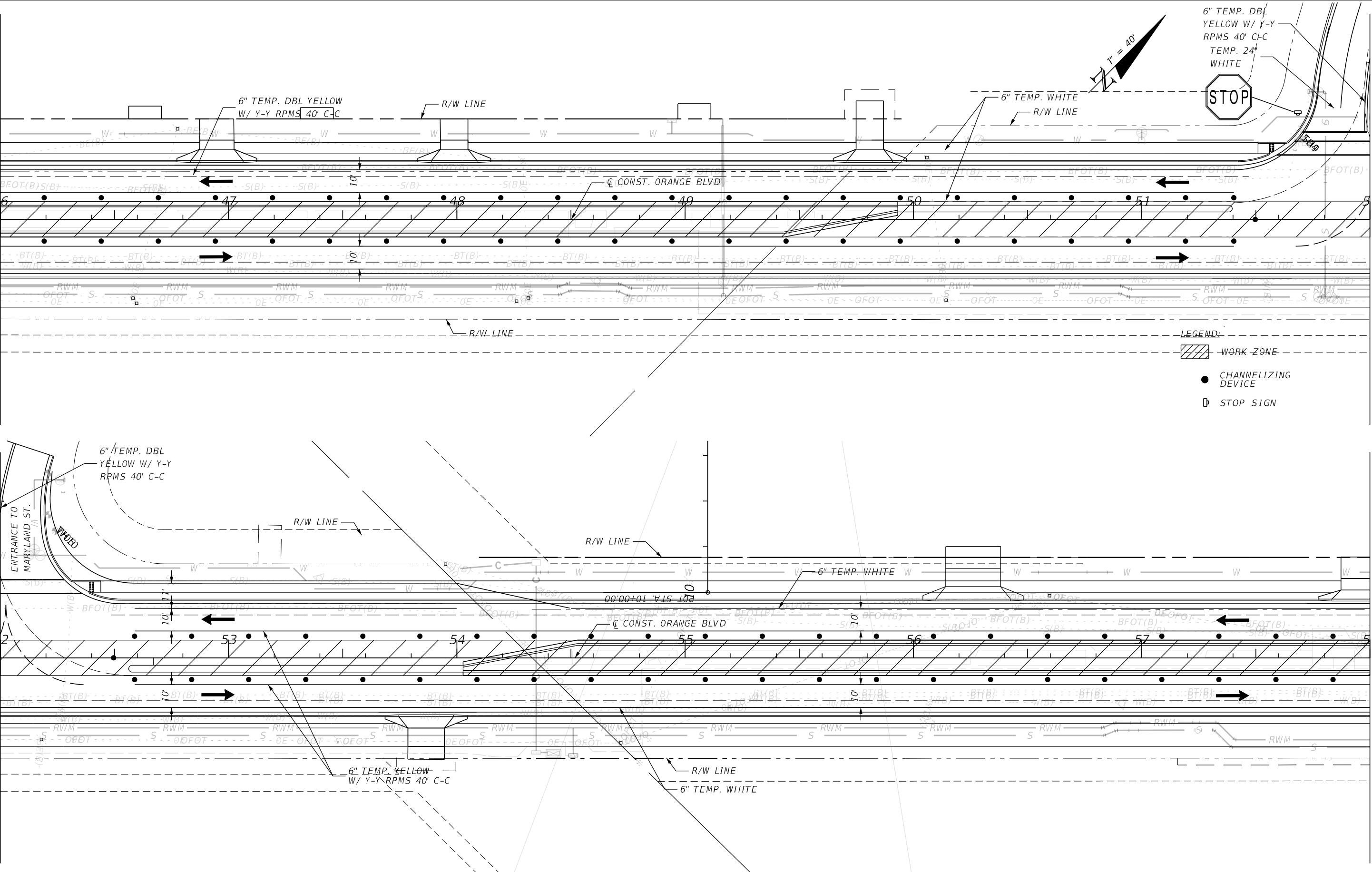
SHEET NO.  
 383

46+00.00

52+00.00

10/10/2022 4:04:10 PM 0:\2017\1710782\_002\_Orange\_Bld\_CADD\roadway\TCPLRD404.dgn

58+00.00



6" TEMP. DBL  
YELLOW W/ Y-Y  
RPMS 40' C-C  
TEMP. 24"  
WHITE

STOP

LEGEND:

WORK ZONE

CHANNELIZING DEVICE

STOP SIGN

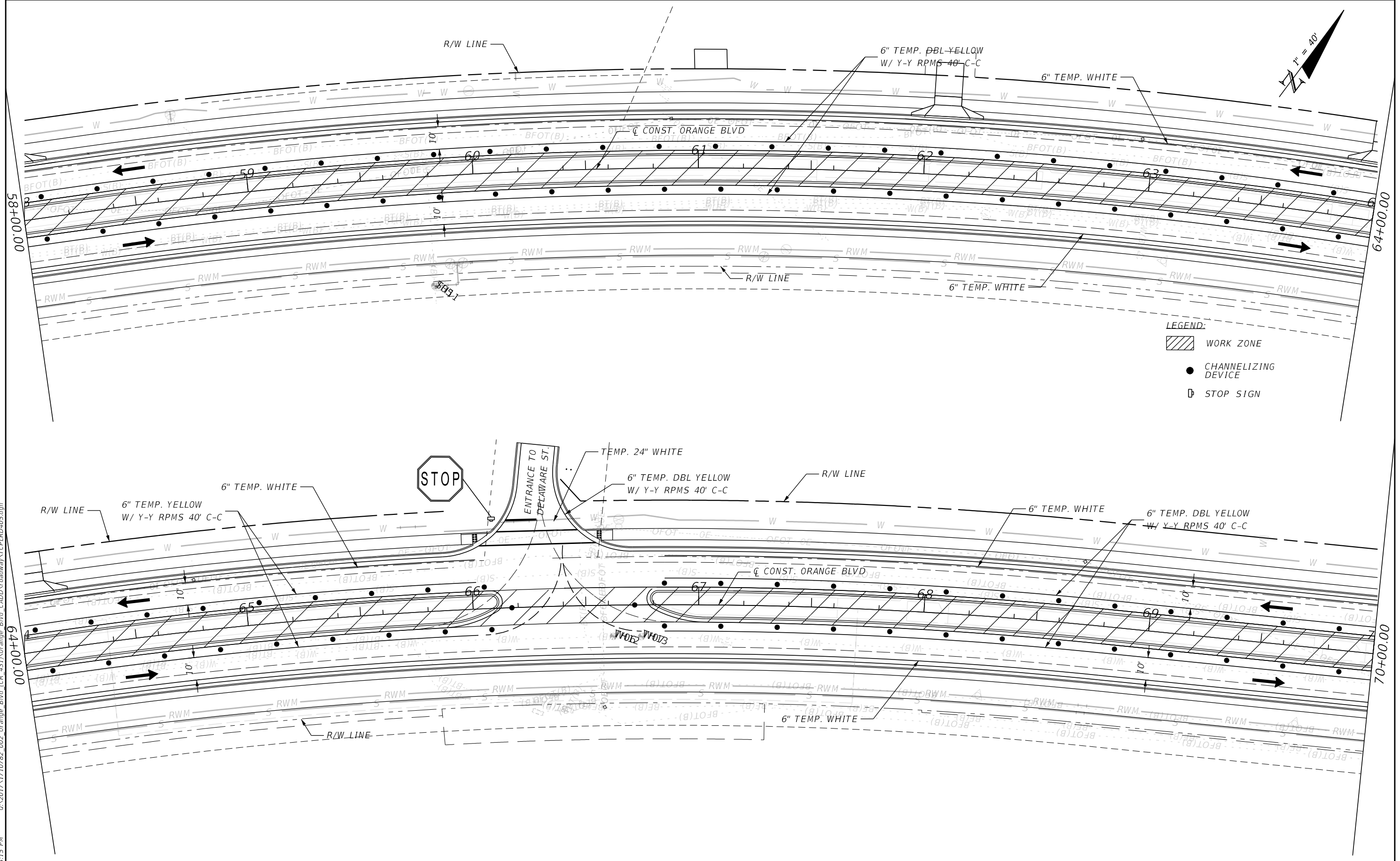
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		




JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TCP PLAN  
PHASE IV

SHEET NO.  
384



- LEGEND:**
-  WORK ZONE
  -  CHANNELIZING DEVICE
  -  STOP SIGN

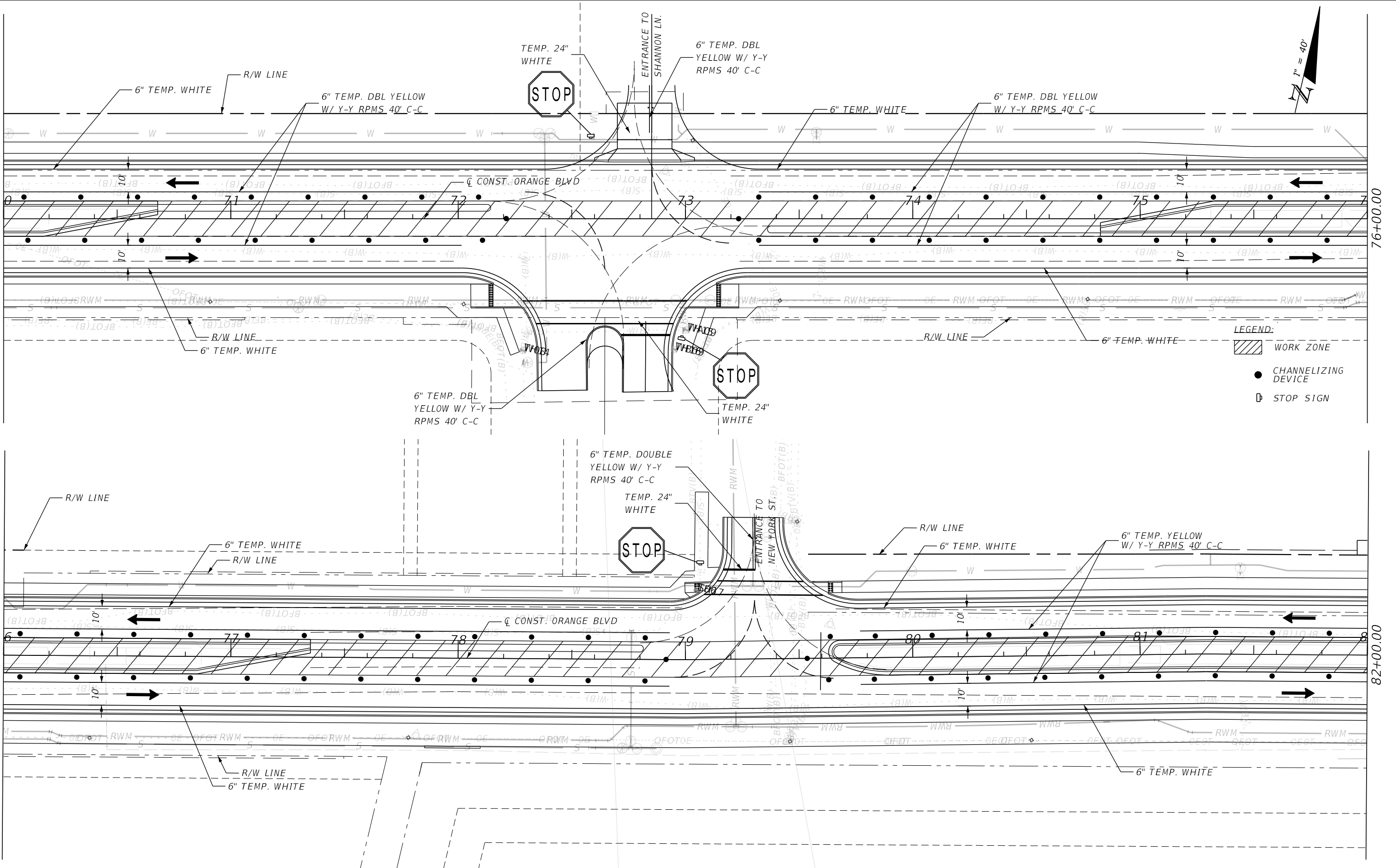
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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS ROAD NO. COUNTY SEMINOLE COUNTY CIP CR 431 SEMINOLE 01785303			SHEET NO. 385	
DATE	DESCRIPTION	DATE	DESCRIPTION								
PRELIMINARY NOT FOR CONSTRUCTION							<b>TCP PLAN            PHASE IV</b>				

70+00.00

76+00.00

10/10/2022 4:04:19 PM O:\2017\1710782\_002\_Orange\_Blvd\_Cr431\roadway\TCPLRD406.dgn



- LEGEND:**
- WORK ZONE
  - CHANNELIZING DEVICE
  - STOP SIGN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

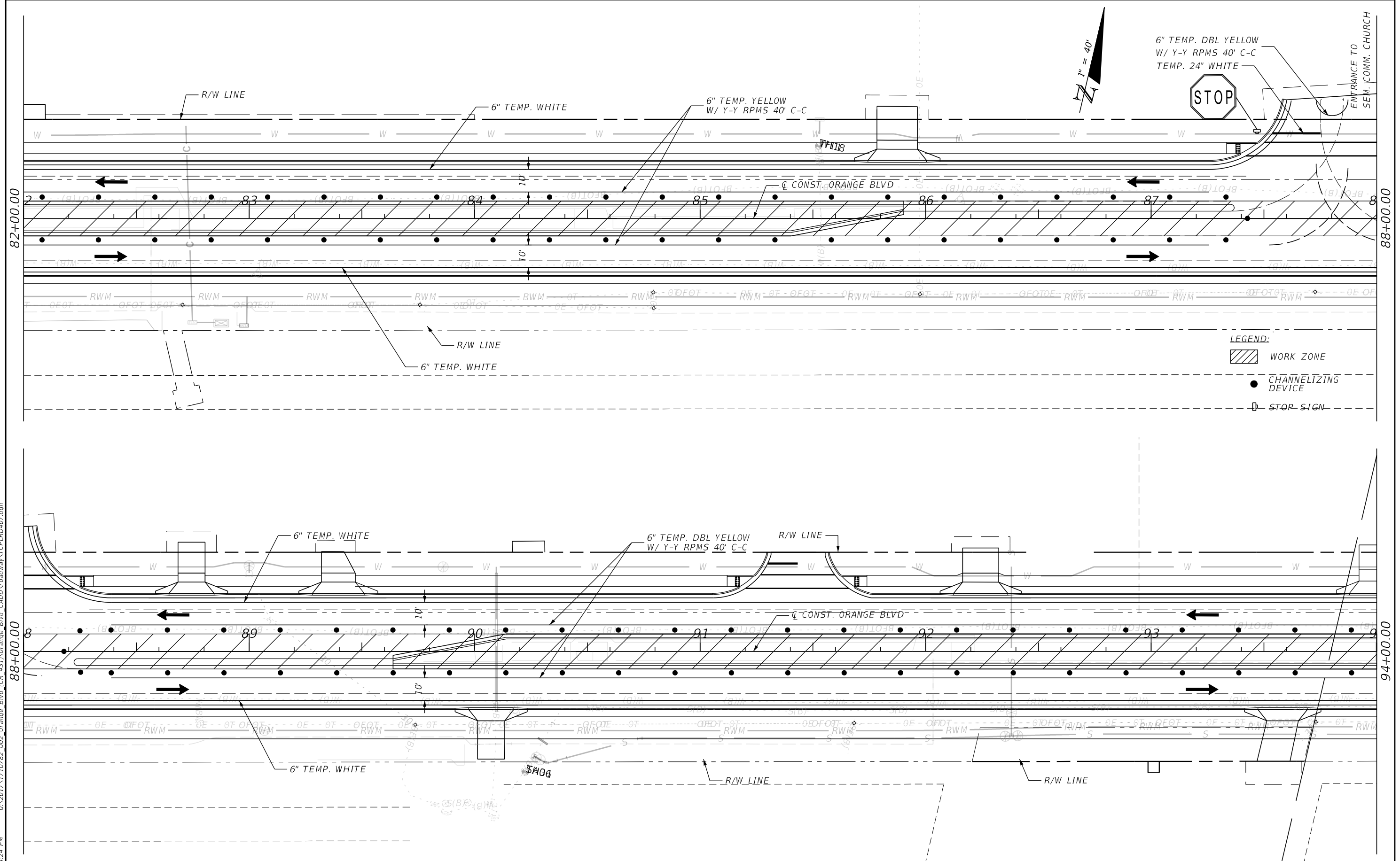
<b>SEMINOLE COUNTY PUBLIC WORKS</b>		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE IV**

SHEET NO.  
 386



10/10/2022 4:04:24 PM O:\2017\1710782\_002\_Orange\_Bldv\_(CR\_431)\Orange\_Bldv\_CADD\roadway\TCPLRD407.dgn



6" TEMP. DBL YELLOW  
W/ Y-Y RPMS 40' C-C  
TEMP. 24" WHITE



ENTRANCE TO  
SEM. COMM. CHURCH



- LEGEND:**
- WORK ZONE
  - CHANNELIZING DEVICE
  - STOP SIGN

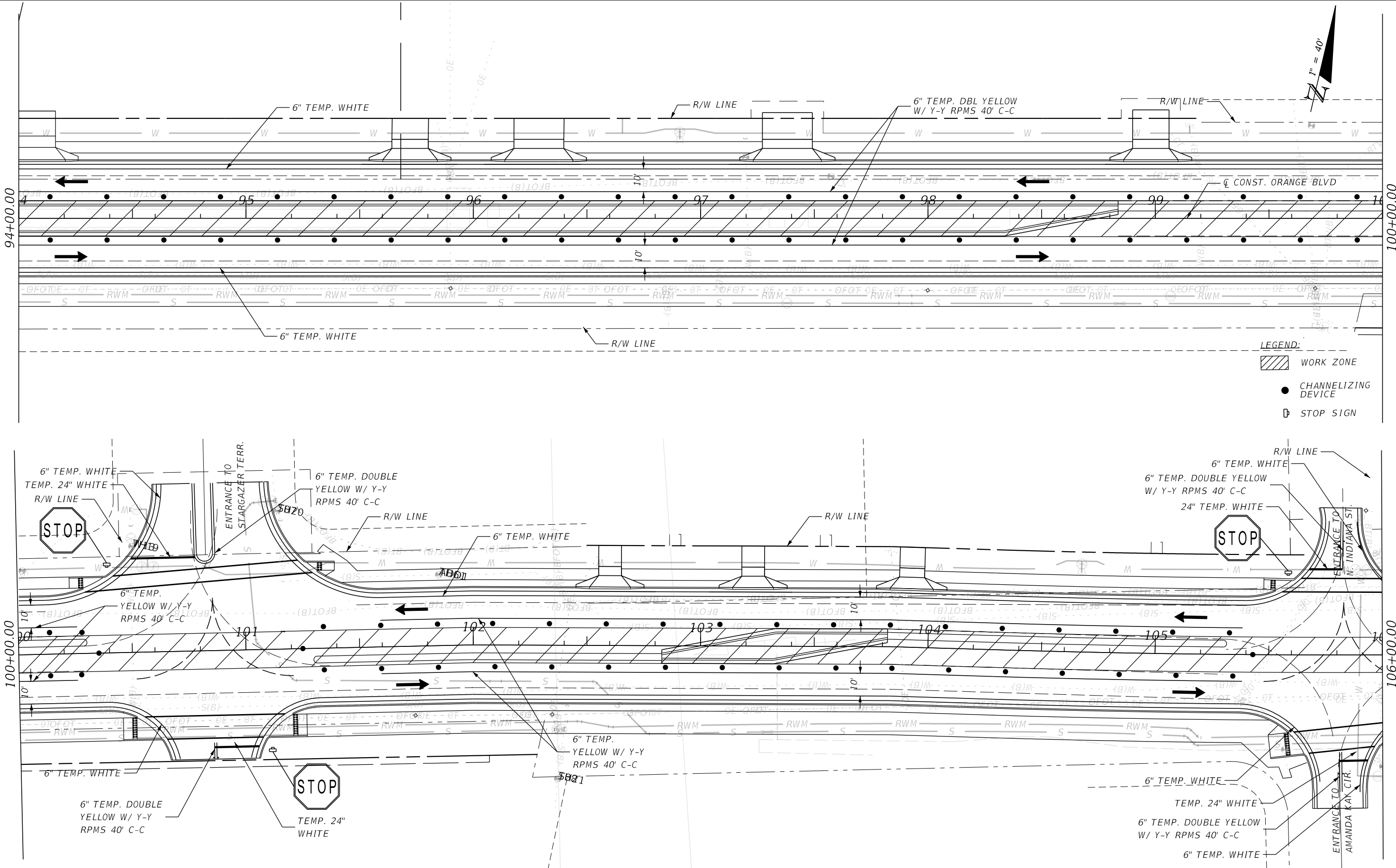
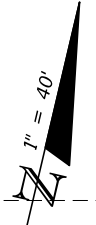
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

<b>SEMINOLE COUNTY PUBLIC WORKS</b>		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE IV**

SHEET  
NO.  
**387**



- LEGEND:**
- WORK ZONE
  - CHANNELIZING DEVICE
  - STOP SIGN

10/10/2022 4:04:28 PM Q:\2017\1710782\_002\_Orange\_Bld\_CADD\roadway\TCPLRD408.dgn

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

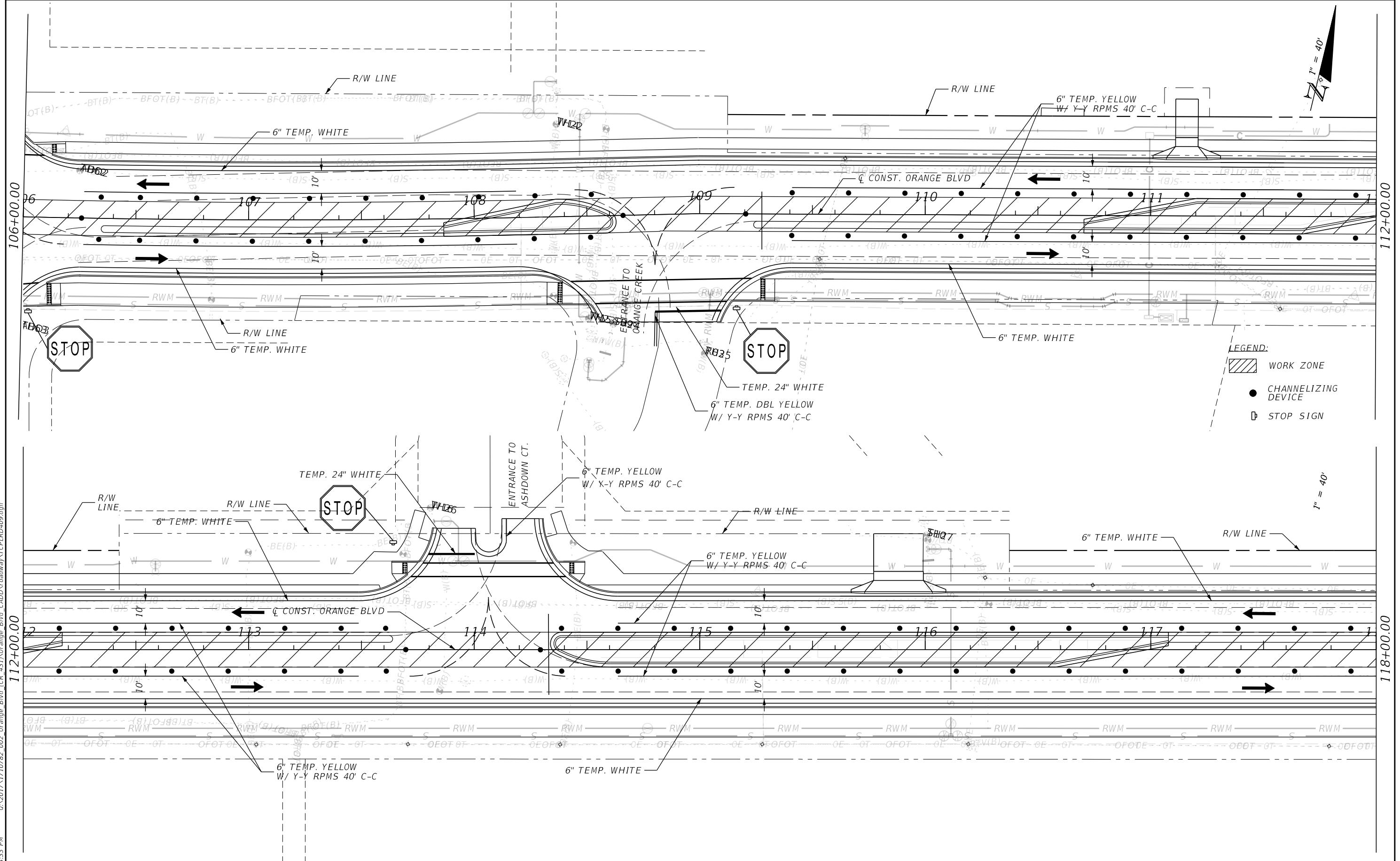
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE IV**

SHEET NO.  
 388

10/10/2022 4:04:33 PM O:\2017\1710782\_002\_Orange\_Bldv\_(CR\_431)\Orange\_Bldv\_CADD\roadway\TCPLRD409.dgn



**LEGEND:**

- WORK ZONE
- CHANNELIZING DEVICE
- STOP SIGN

REVISIONS	
DATE	DESCRIPTION

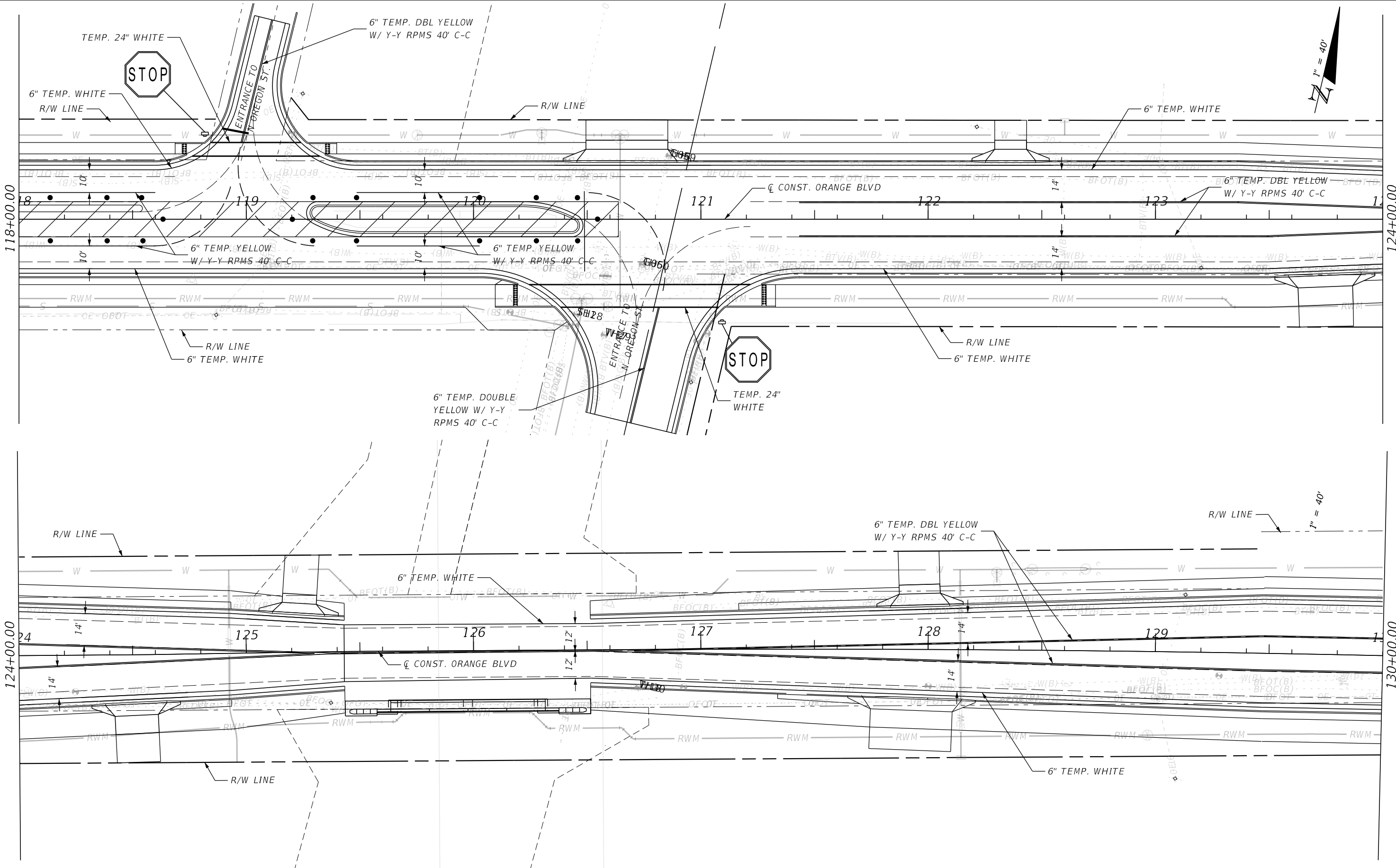
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
 PHASE IV**

SHEET NO.  
 389

10/10/2022 4:04:37 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\TCPLRD4010.dgn



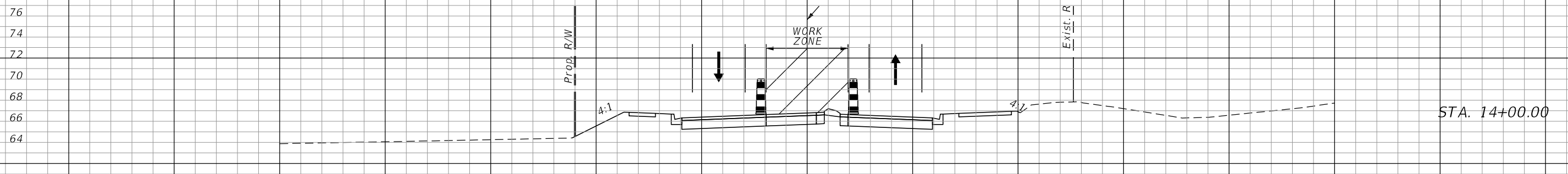
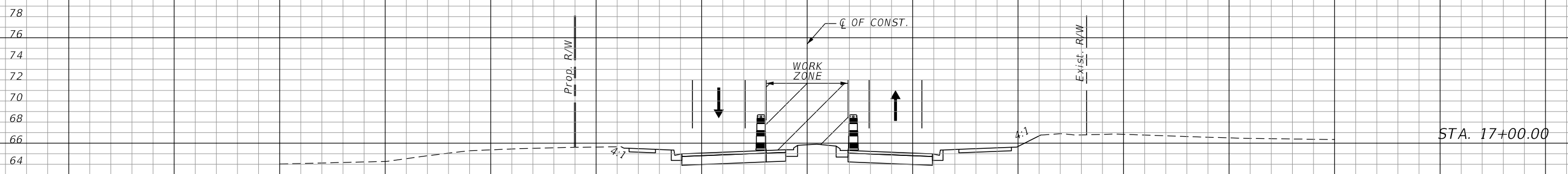
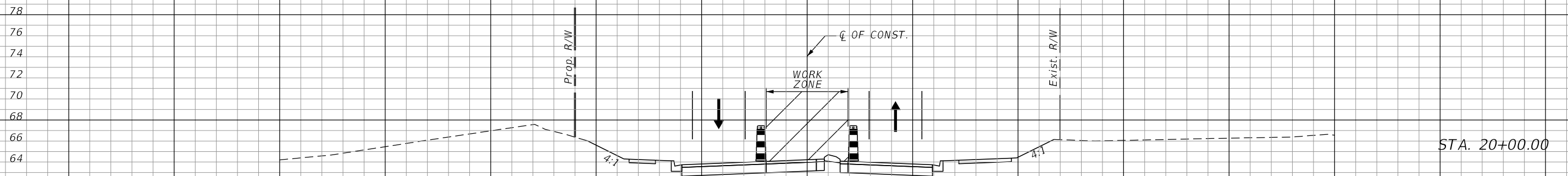
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**TCP PLAN  
PHASE IV**

SHEET NO.  
**390**



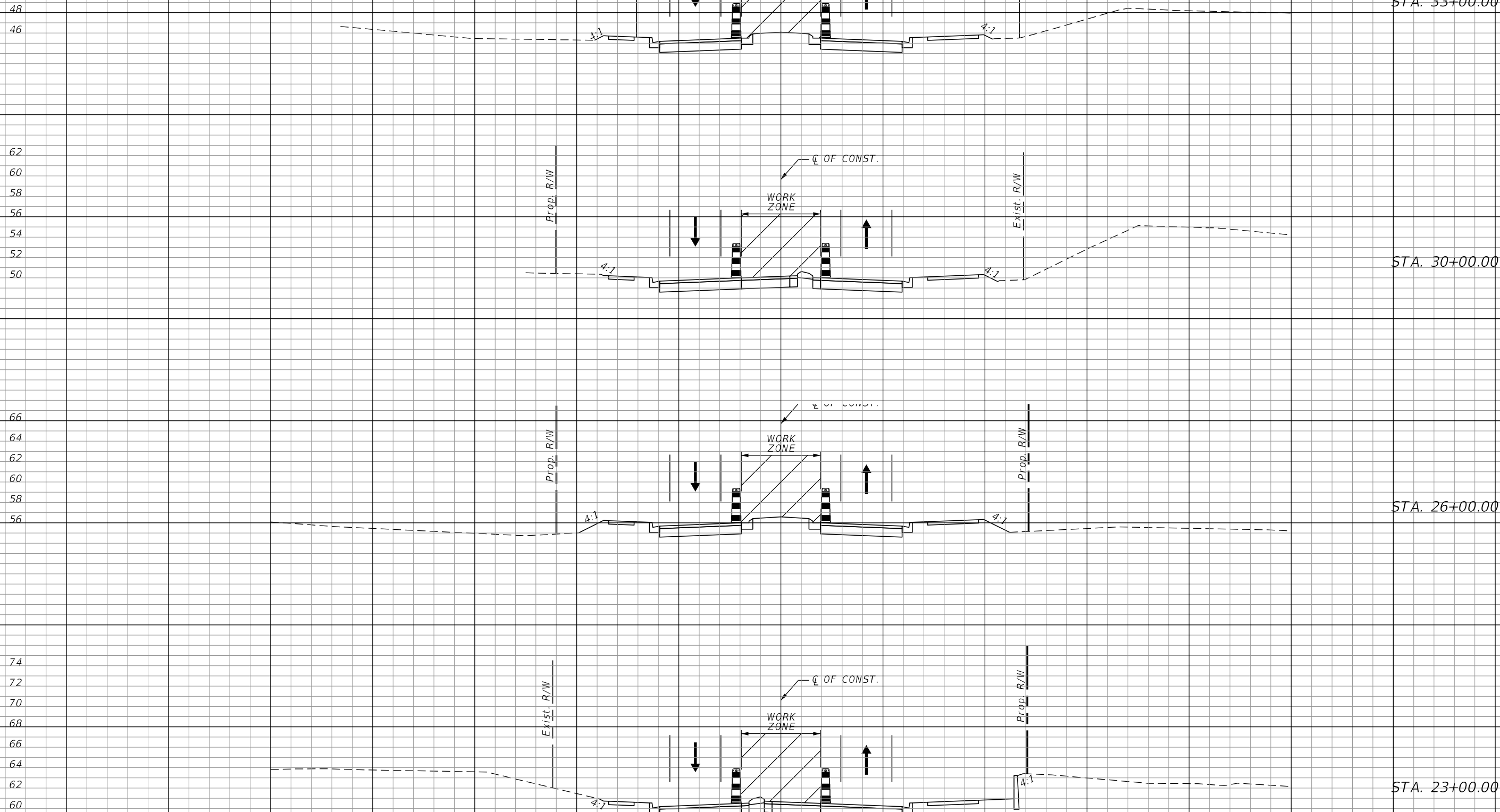
1" = 20' Horizontal  
1" = 10' Vertical

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REVISIONS		DATE		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION		
	PRELIMINARY NOT FOR CONSTRUCTION				

JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917			SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP			
CR 431	SEMINOLE	017853-0-3			

<b>TCP CROSS SECTIONS</b> <b>PHASE IV</b>		SHEET NO. 391
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1" = 20' Horizontal  
 1" = 10' Vertical

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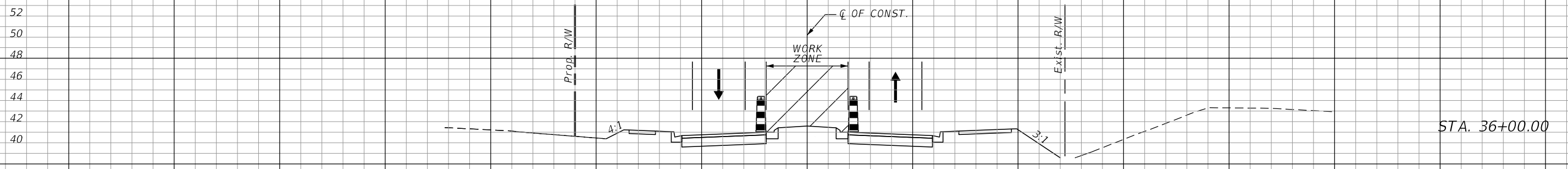
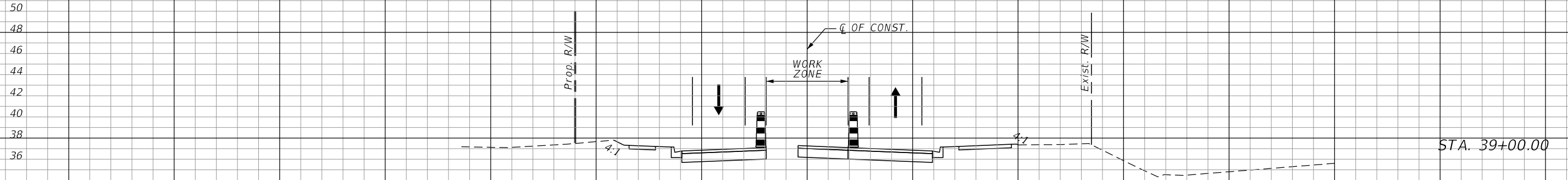
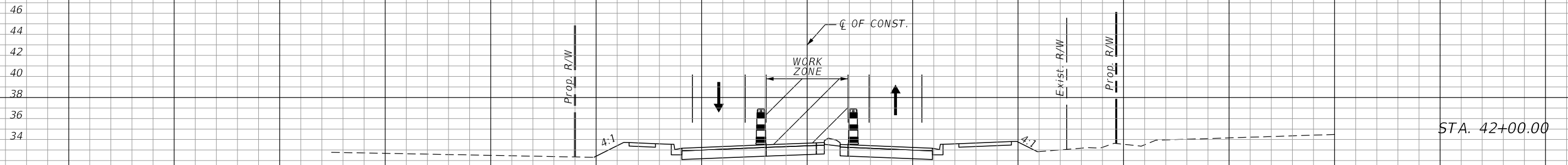
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
 PHASE IV**

SHEET NO.  
 392



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

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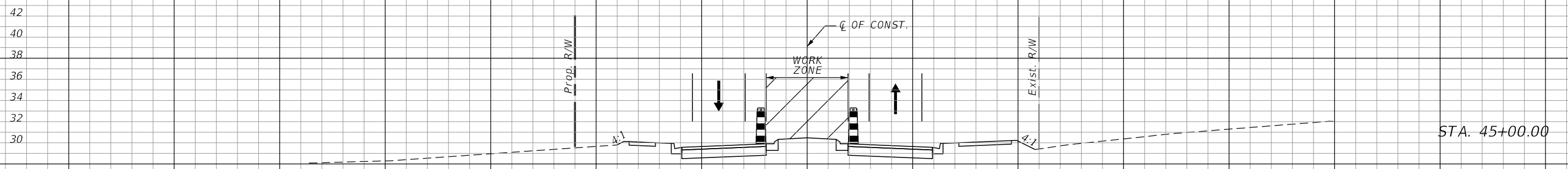
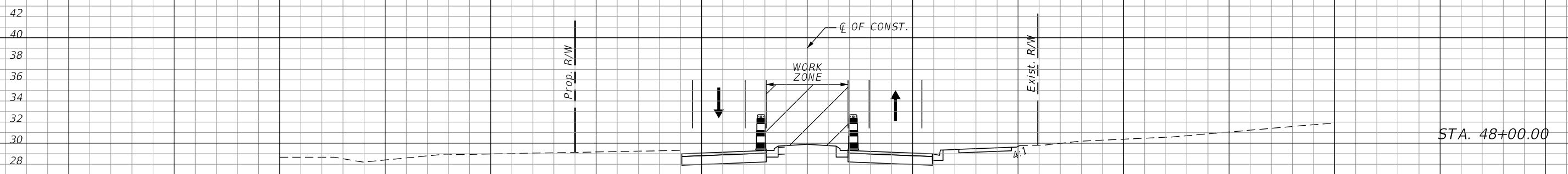
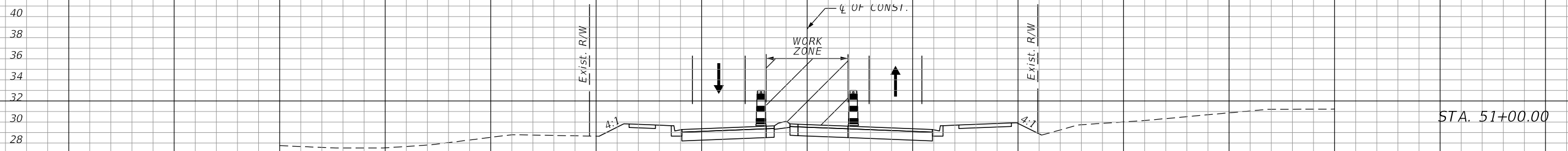
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

SHEET NO.  
393



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

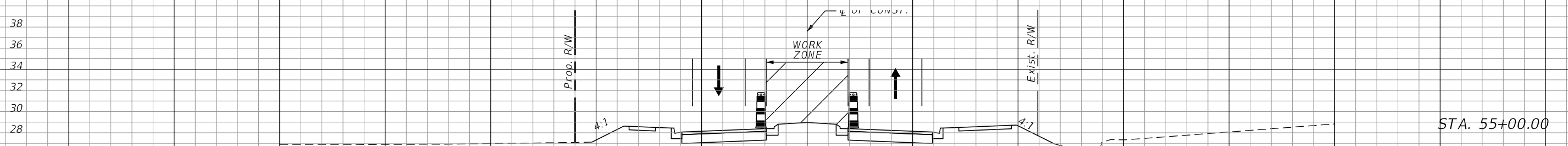
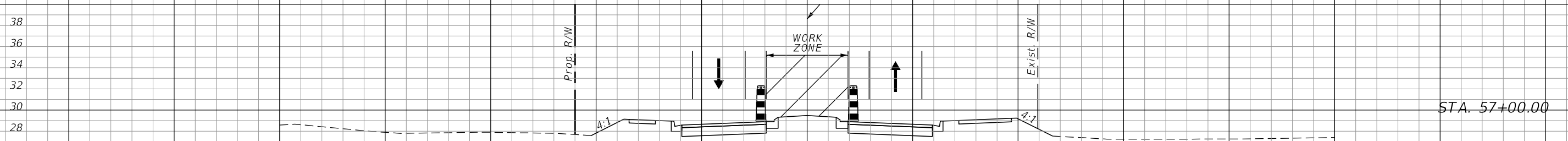
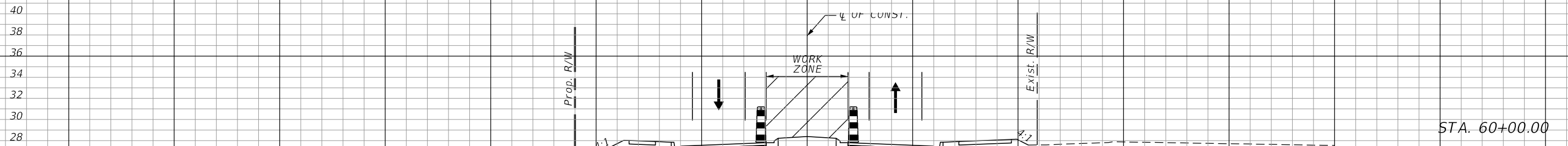
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

SHEET NO.  
394





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

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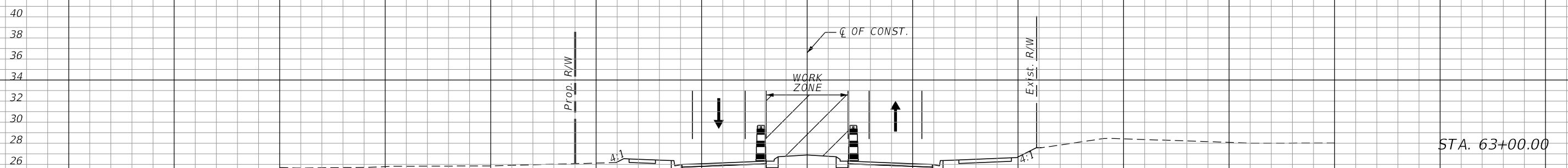
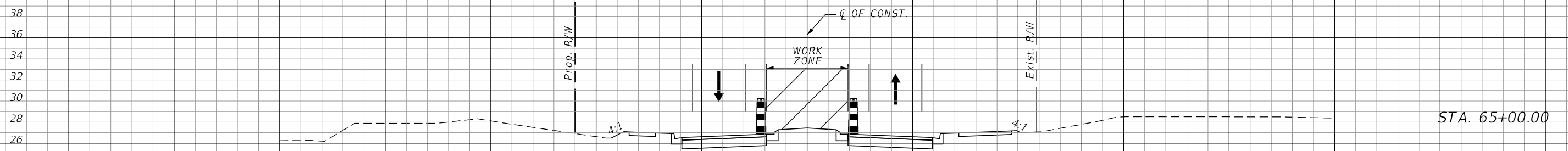
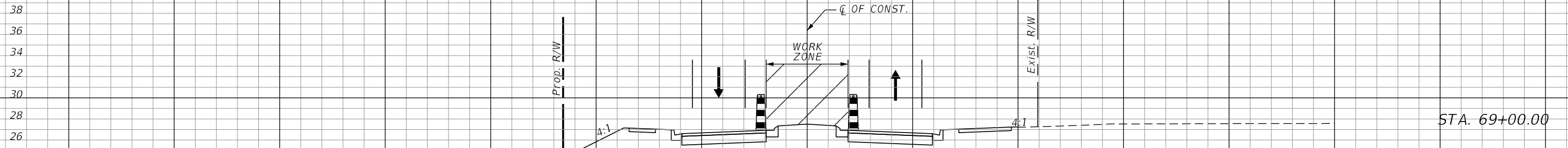
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

SHEET NO.  
395



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

SHEET NO.  
396

44  
42  
40  
38  
36  
34  
32  
30  
28  
26

STA. 78+00.00

38  
36  
34  
32  
30  
28  
26

STA. 75+00.00

38  
36  
34  
32  
30  
28  
26

STA. 71+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

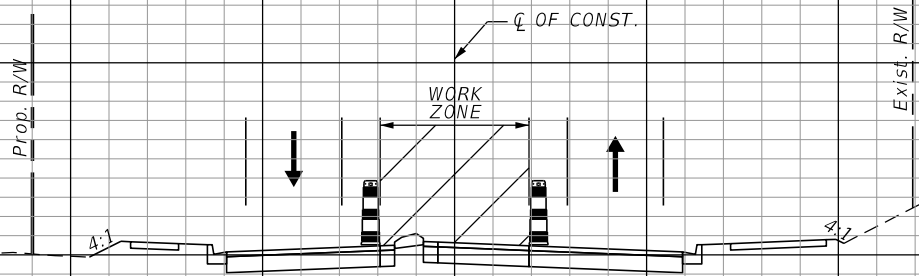
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

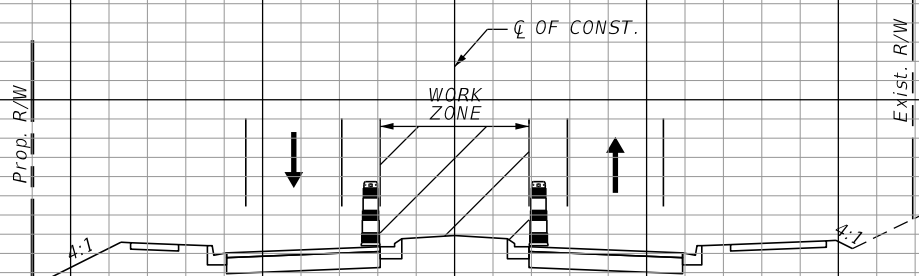
SHEET NO.  
397

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30  
28  
26



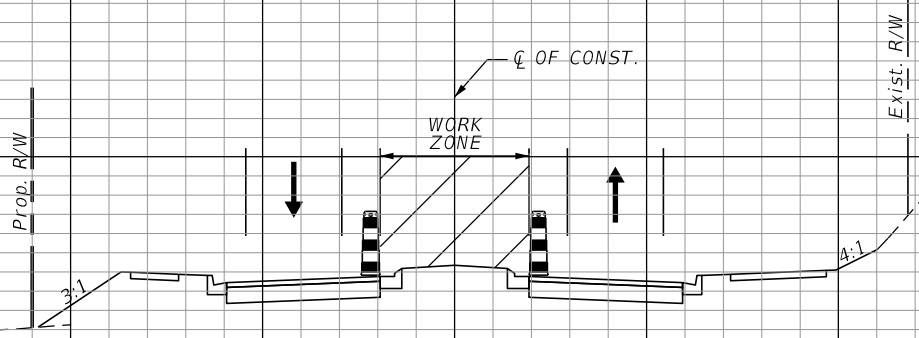
STA. 87+00.00

40  
38  
36  
34  
32  
30  
28  
26



STA. 84+00.00

42  
40  
38  
36  
34  
32  
30  
28  
26



STA. 81+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

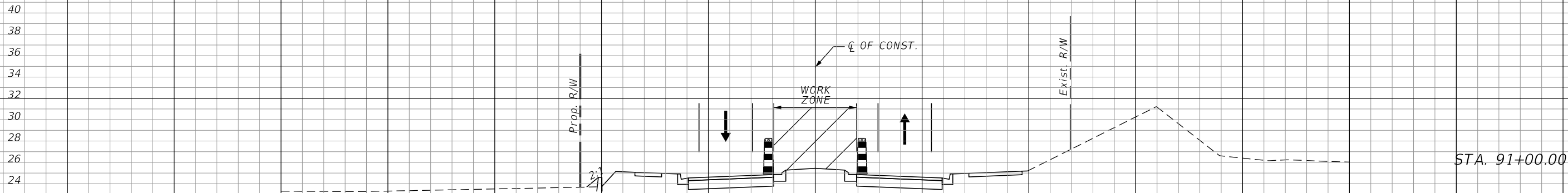
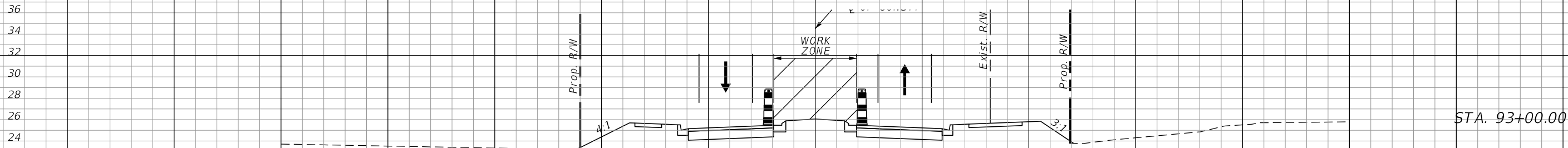
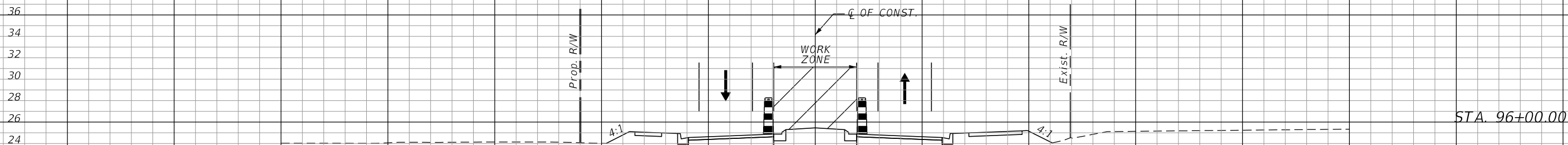
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

SHEET NO.  
398



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

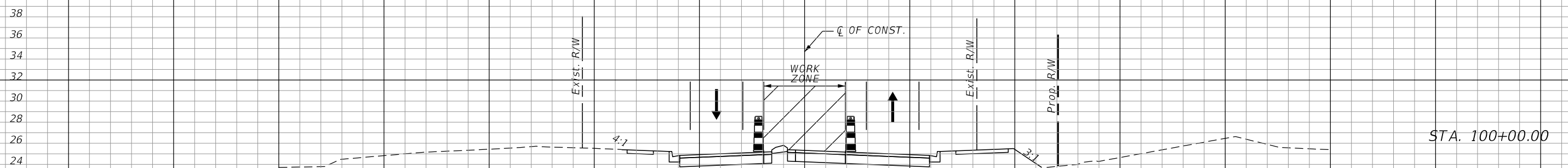
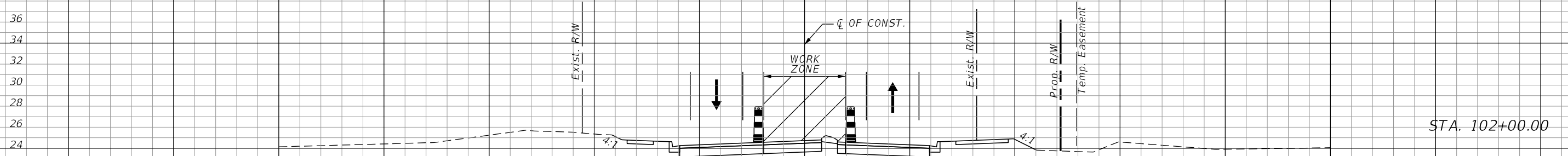
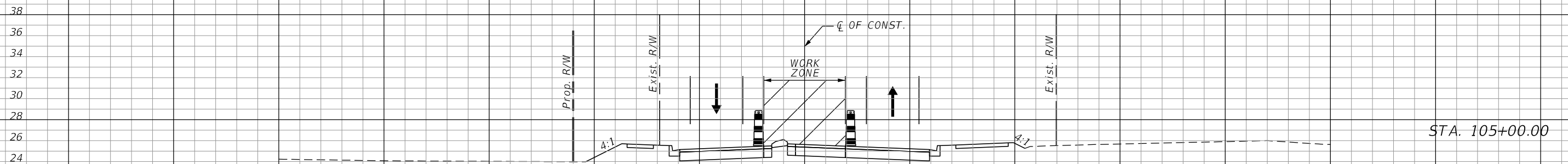
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

SHEET NO.  
399



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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

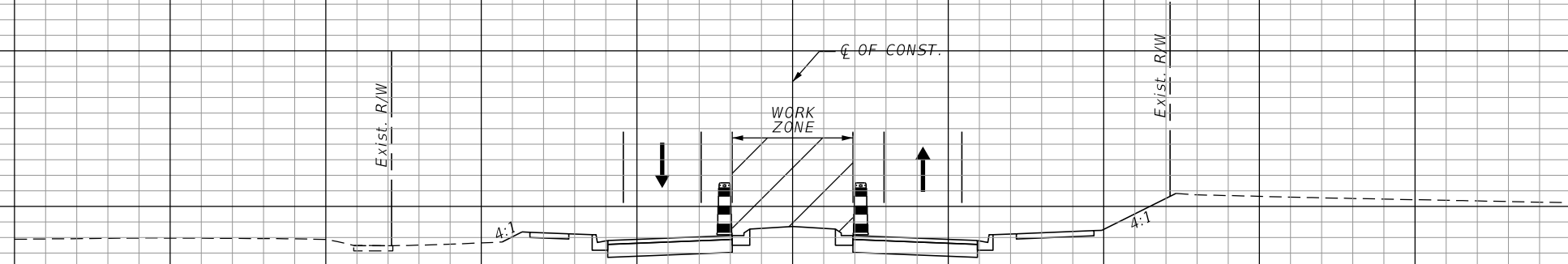
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

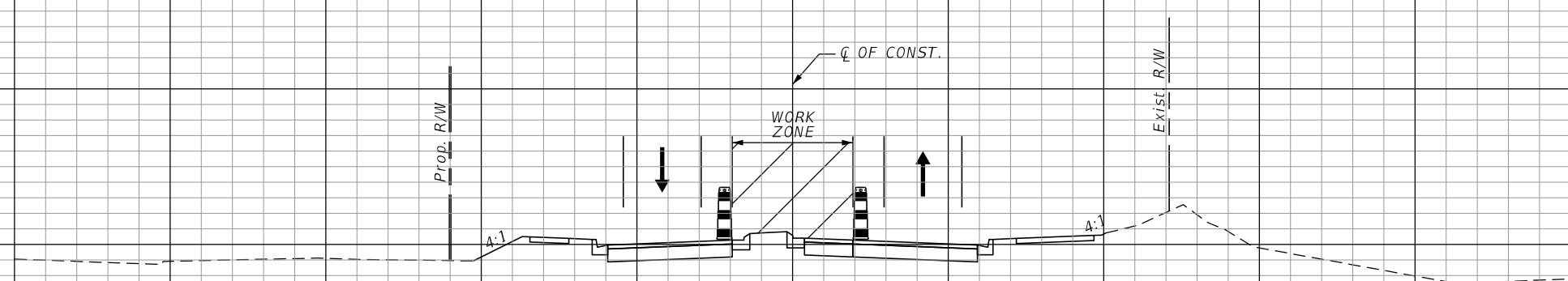
SHEET NO.  
400

38  
36  
34  
32  
30  
28  
26  
24



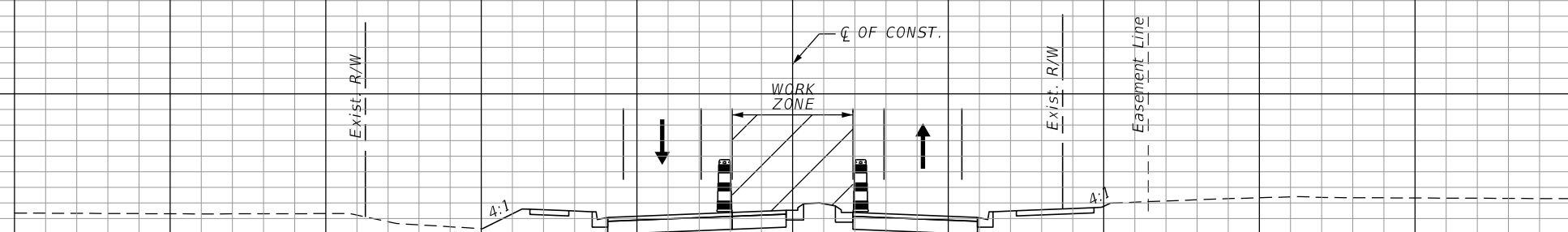
STA. 115+00.00

38  
36  
34  
32  
30  
28  
26  
24  
22



STA. 112+00.00

36  
34  
32  
30  
28  
26  
24



STA. 108+00.00

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

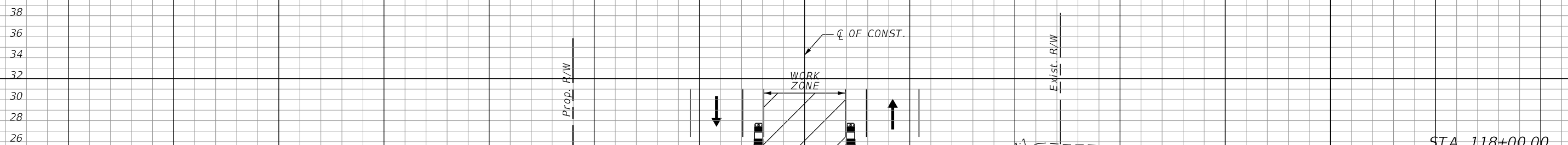
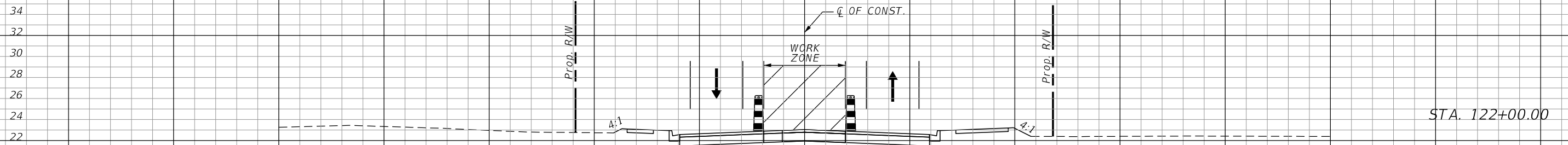
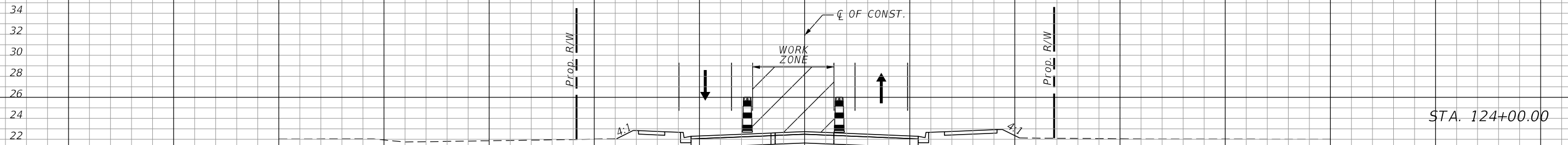
REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

SHEET NO.  
401



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

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REVISIONS	
DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION

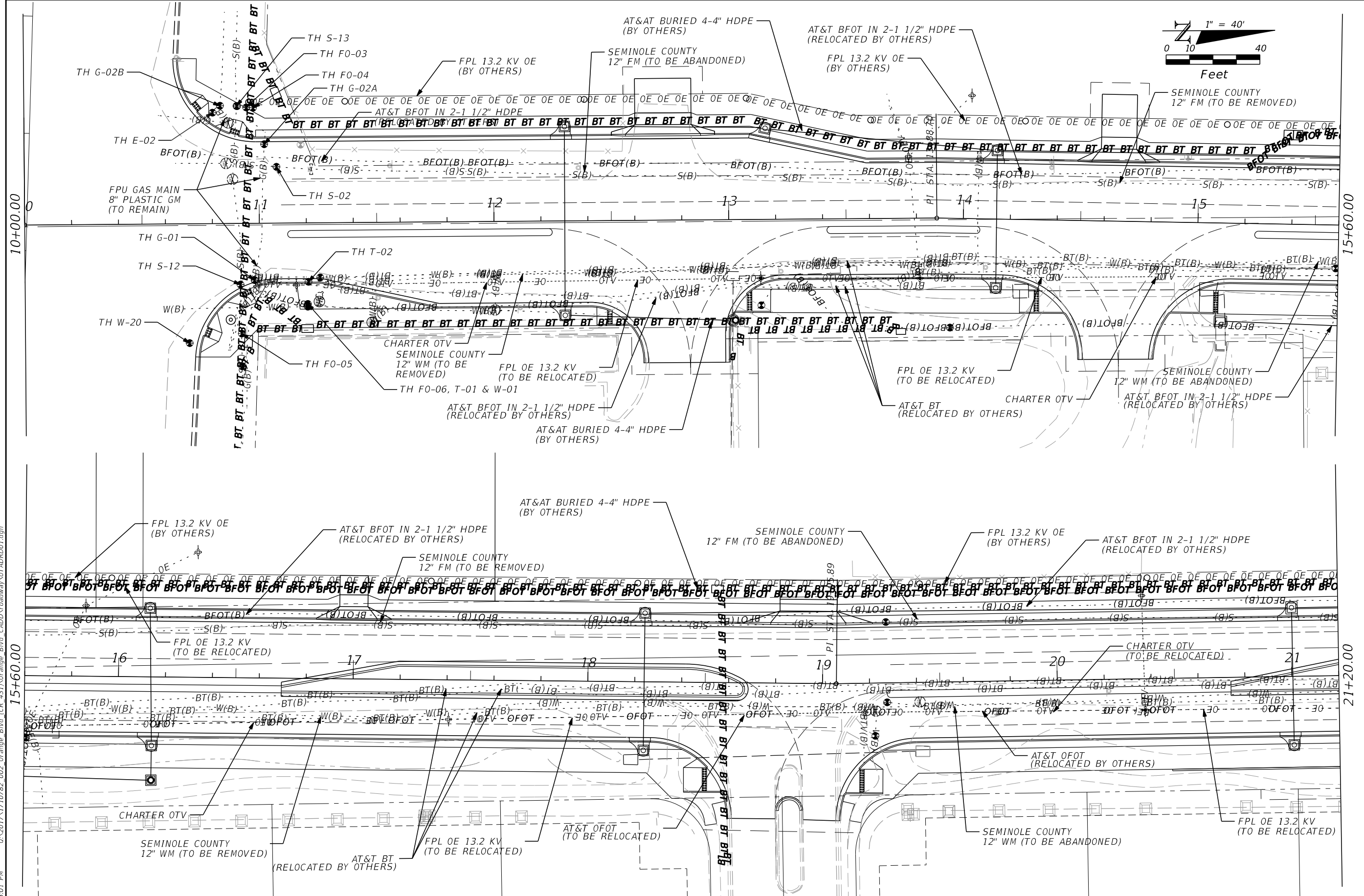
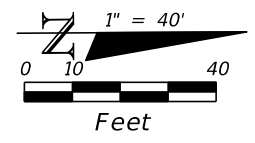
JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

**TCP CROSS SECTIONS  
PHASE IV**

SHEET NO.  
402





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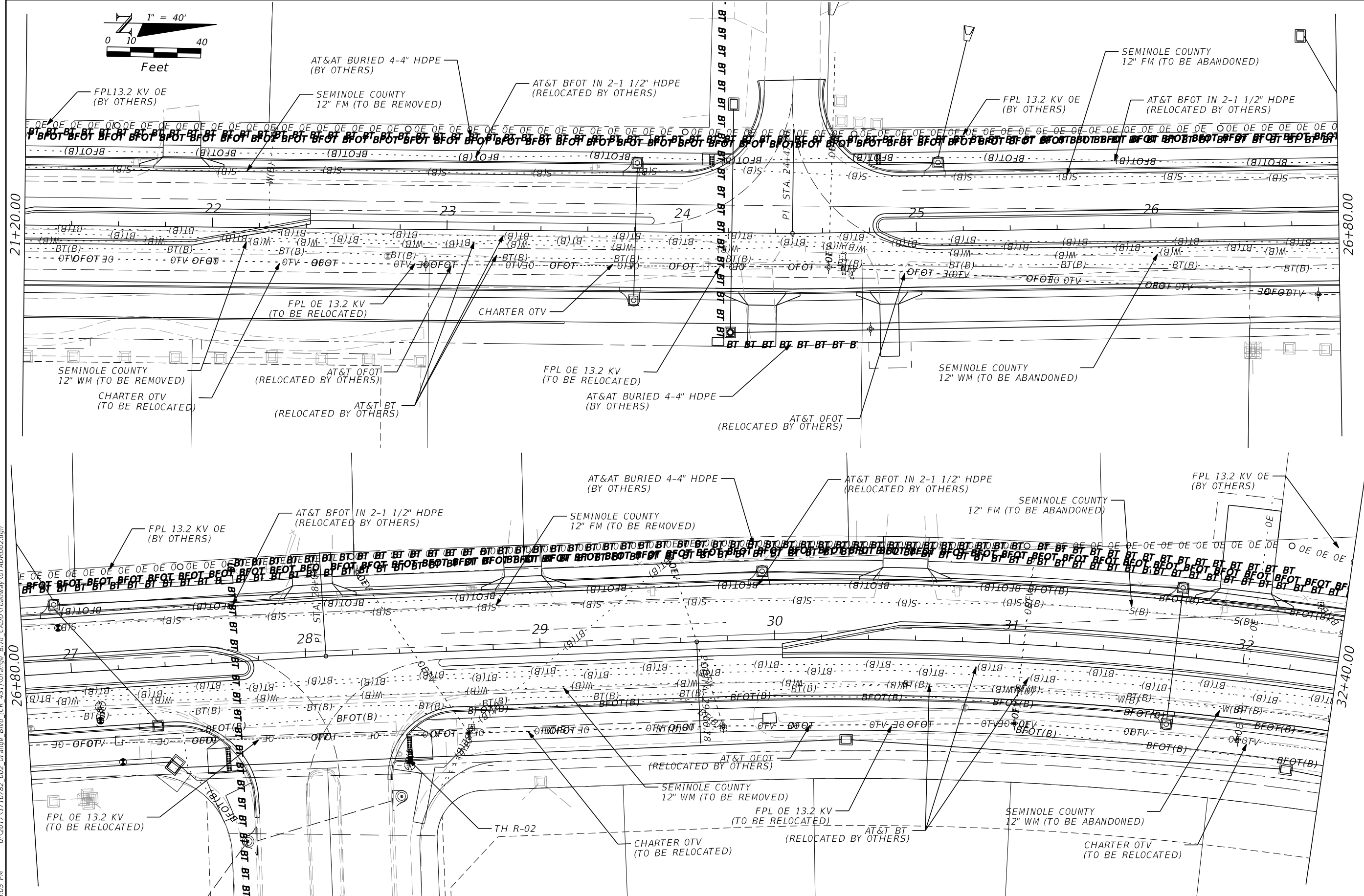
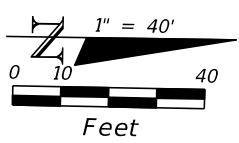
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**UTILITY ADJUSTMENTS**

SHEET NO.  
403



10/10/2022 4:05:05 PM G:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\UT\ADR002.dgn

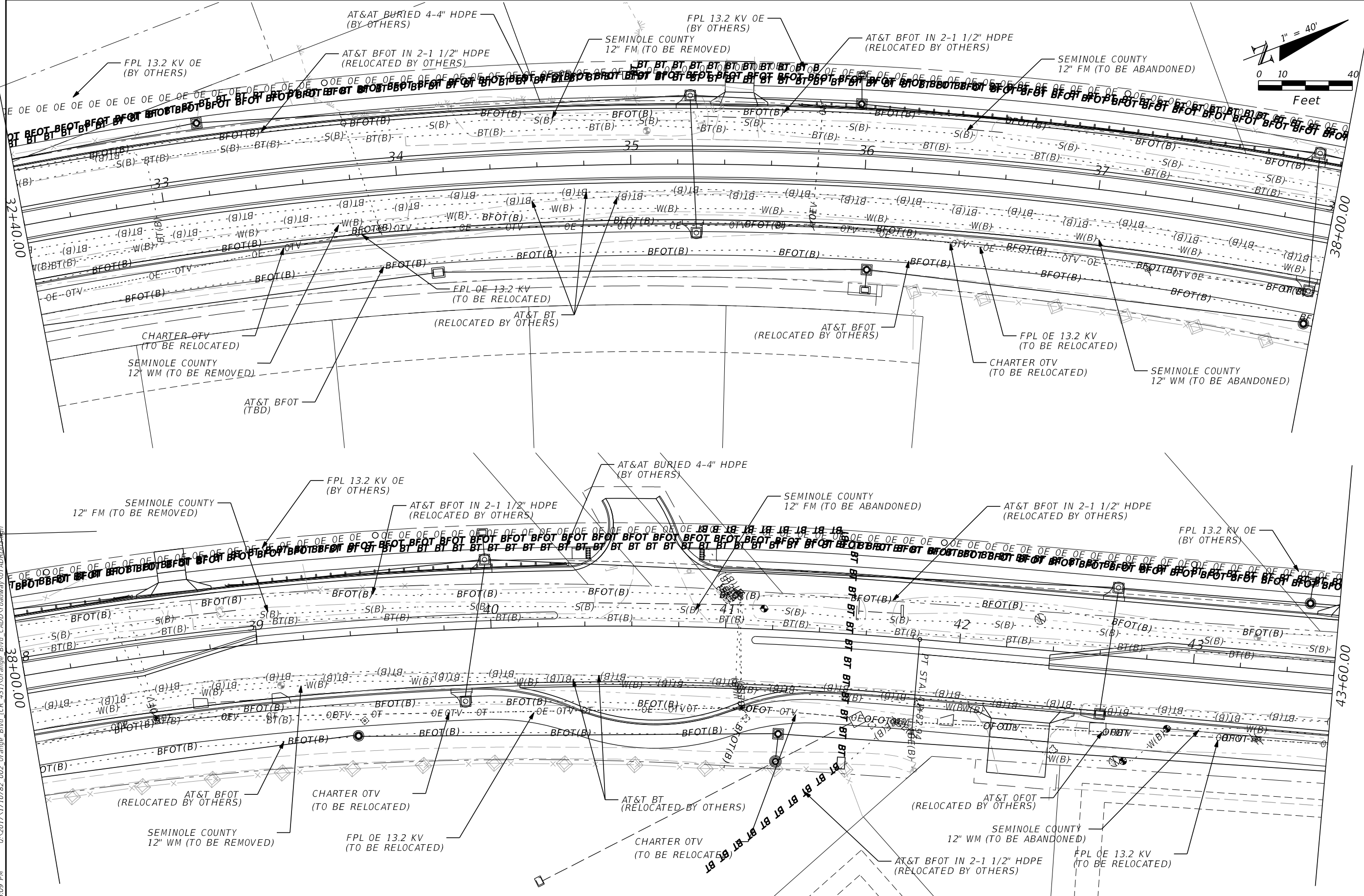
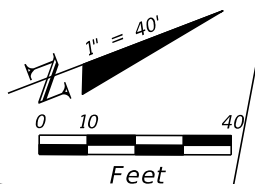
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS

SHEET NO. 404



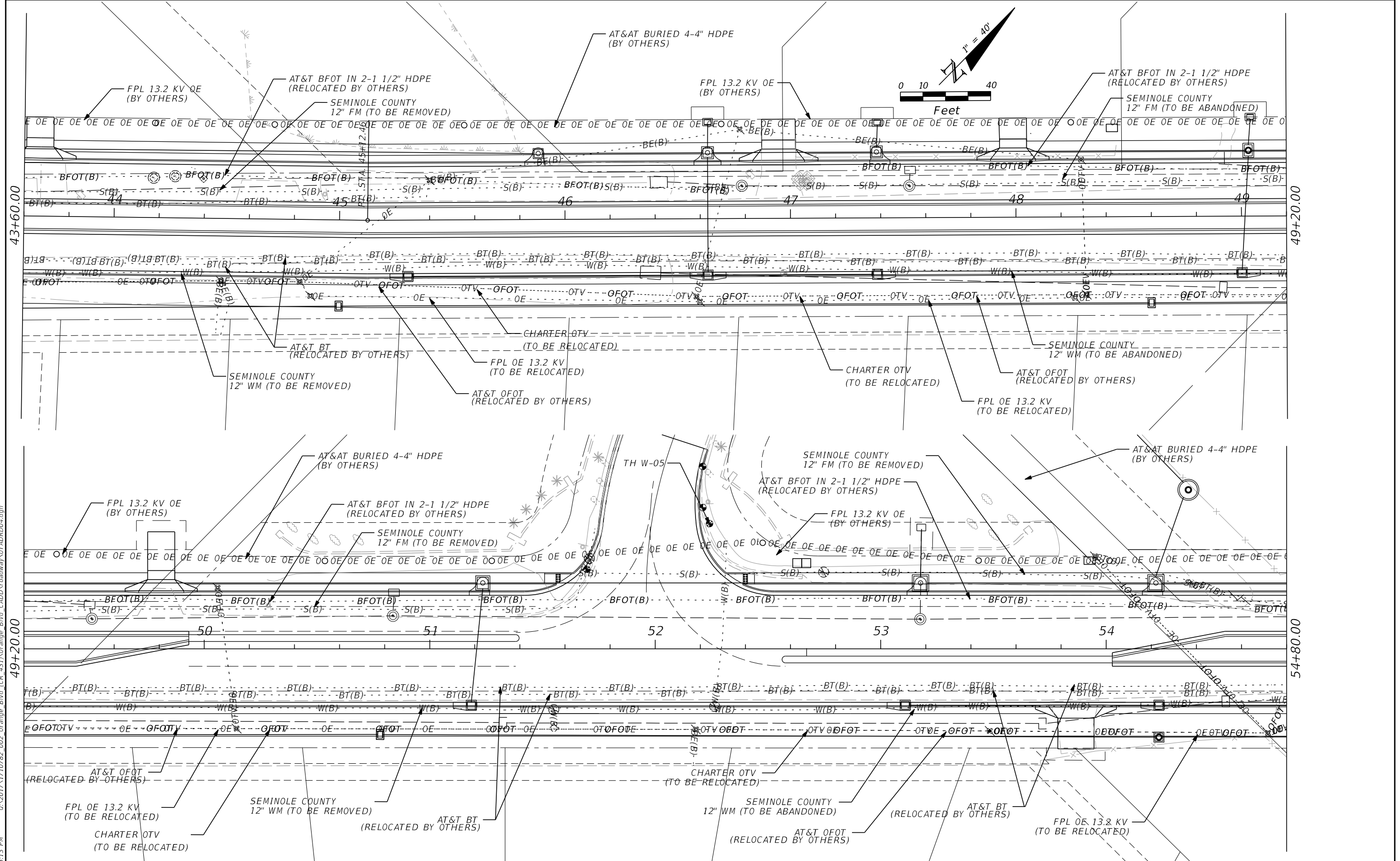
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS	
SHEET NO.	
405	



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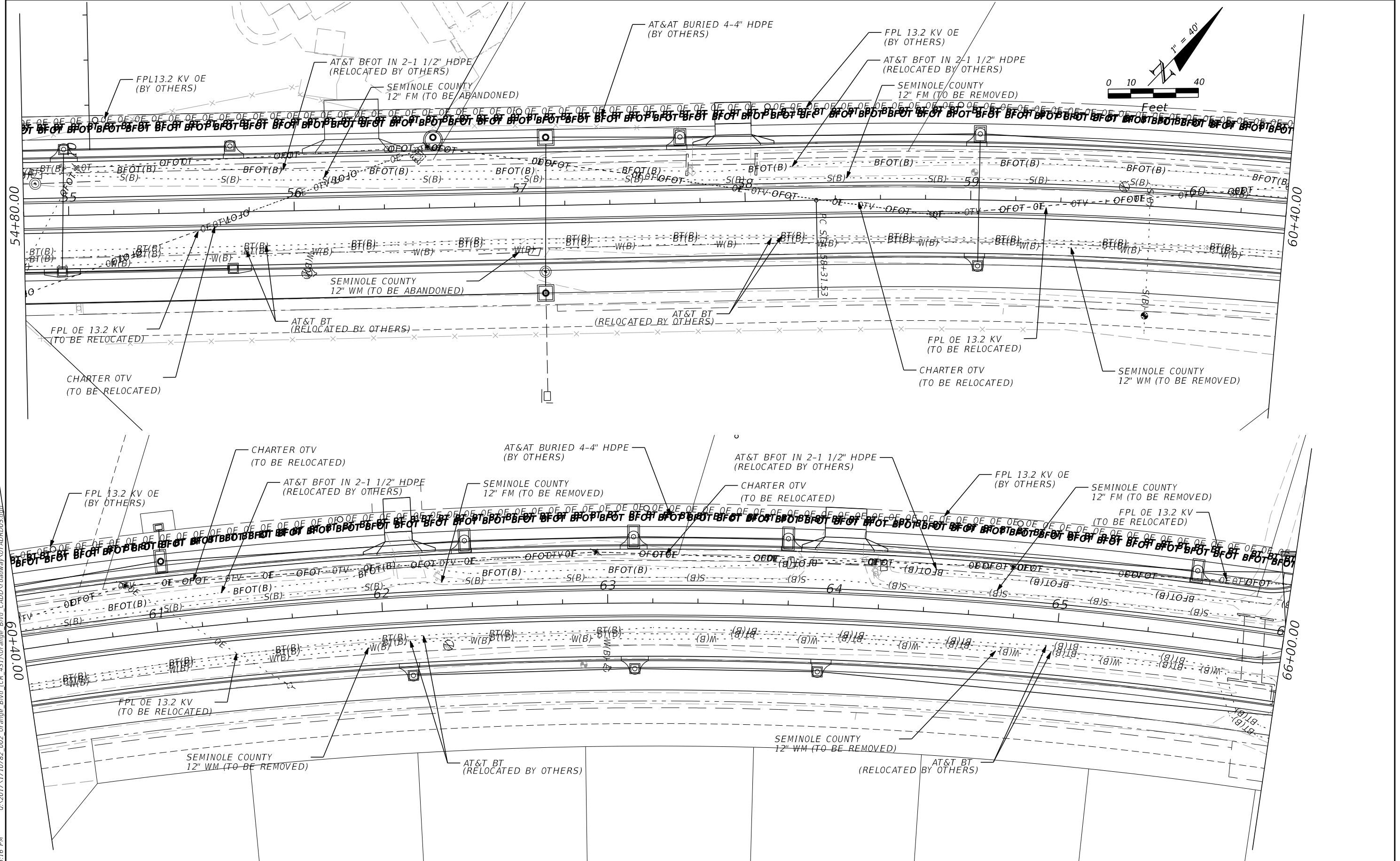
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS

SHEET NO.  
406



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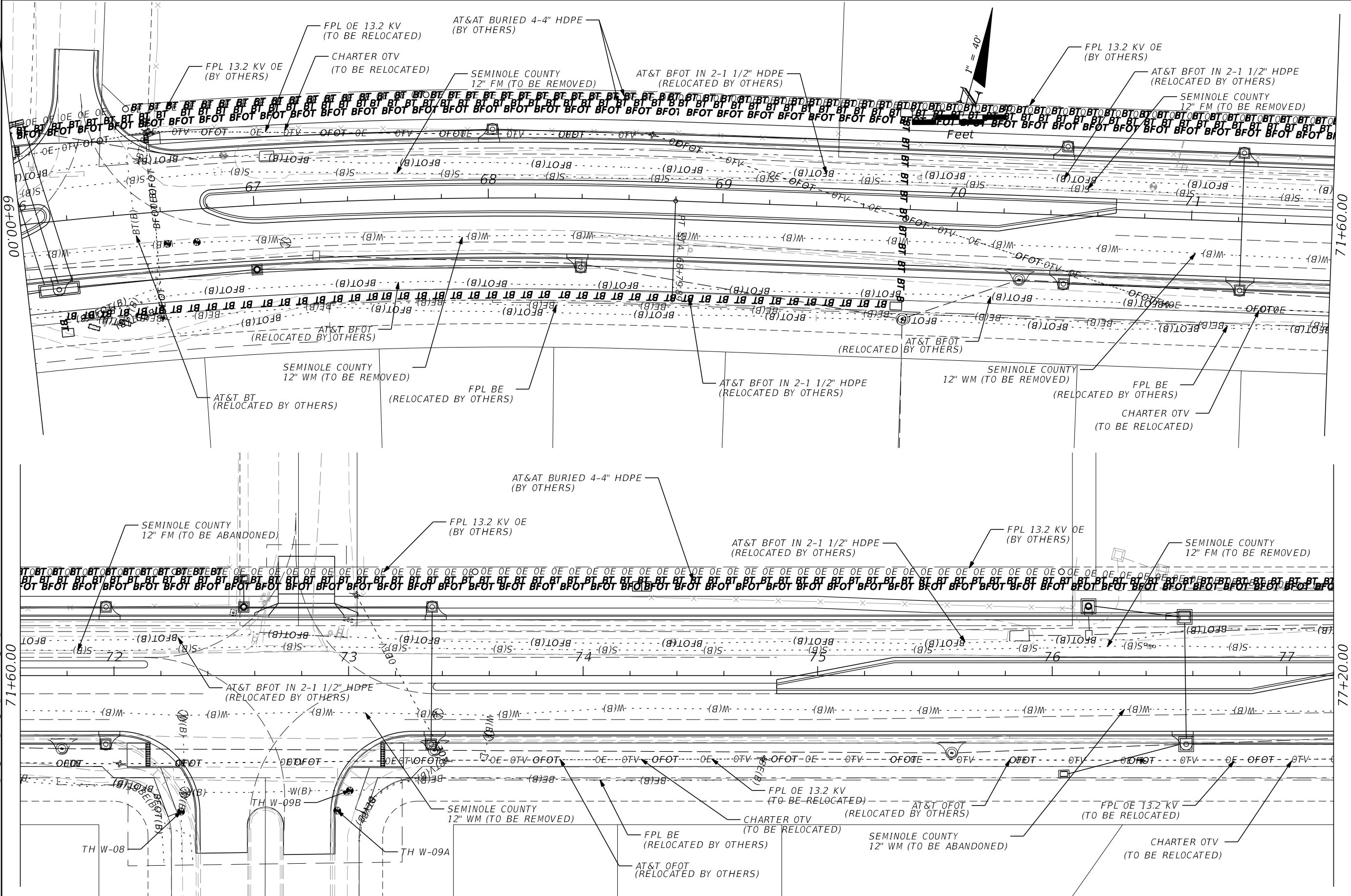
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<h2>UTILITY ADJUSTMENTS</h2>	SHEET NO. <b>407</b>
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10/10/2022 4:05:44 PM Q:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\UT\ADRD06.dgn

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
<b>PRELIMINARY NOT FOR CONSTRUCTION</b>			

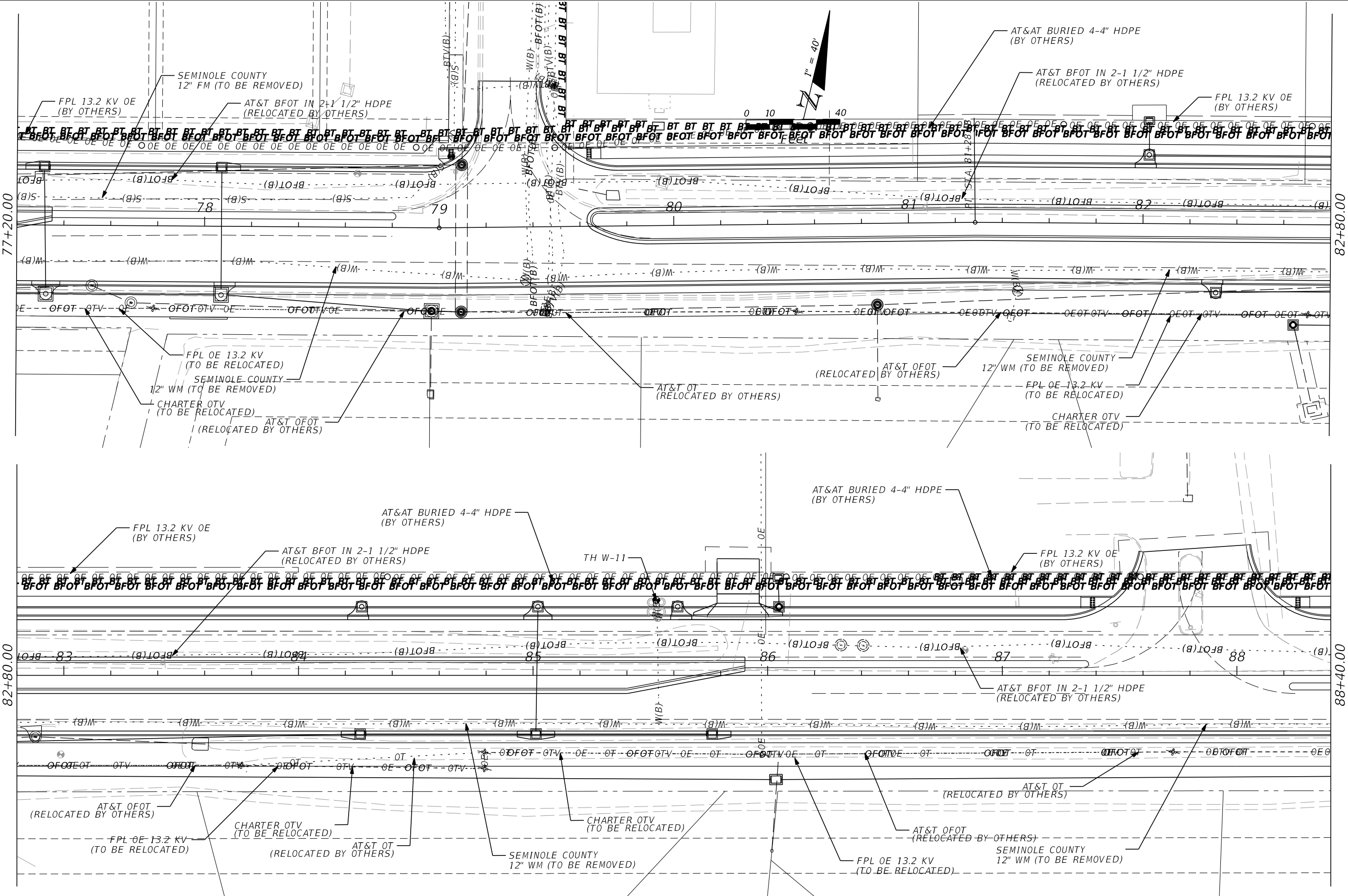
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

<b>SEMINOLE COUNTY PUBLIC WORKS</b>		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS

SHEET NO. 408

10/10/2022 4:05:47 PM G:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\UT\ADRD07.dgn



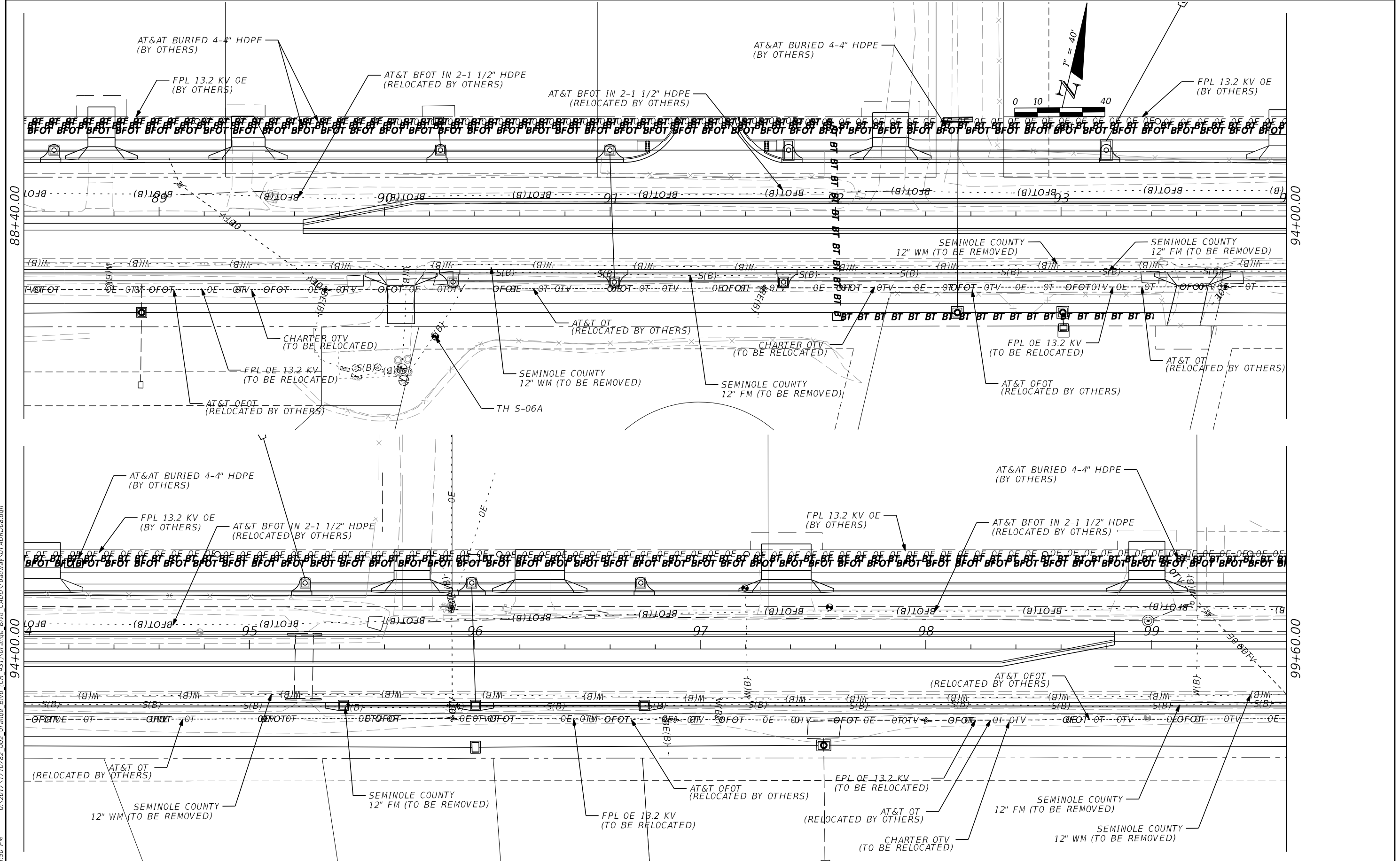
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

<b>UTILITY ADJUSTMENTS</b>	
409	

SHEET NO. 409



10/10/2022 4:05:50 PM Q:\2017\1710782\_002\_Orange\_Bldg\_CR\_431\Orange\_Bldg\_CADD\roadway\UT\ADRD08.dgn

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
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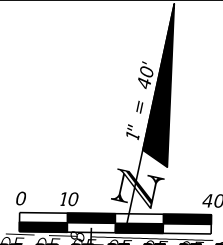
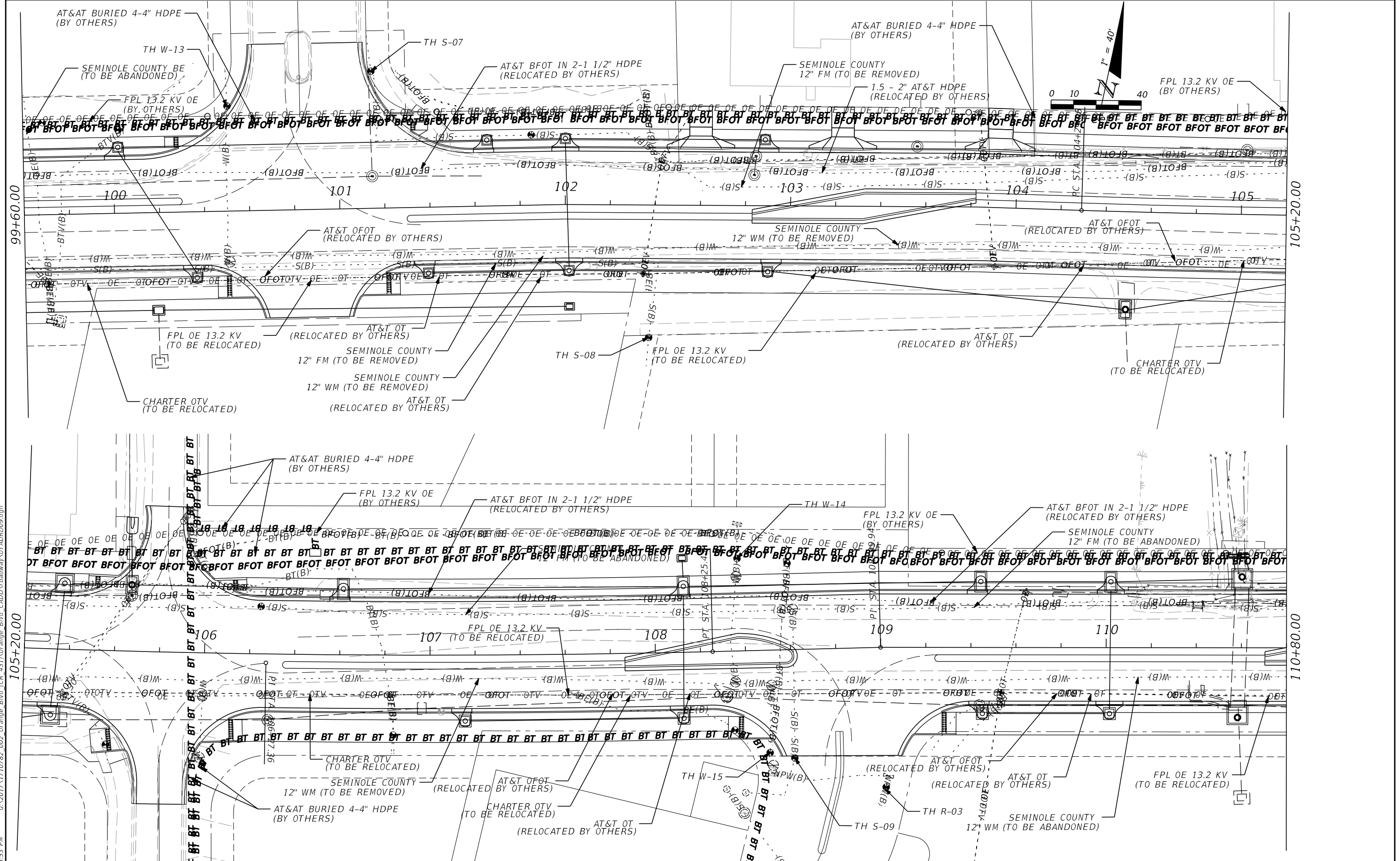
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS

SHEET NO.  
410





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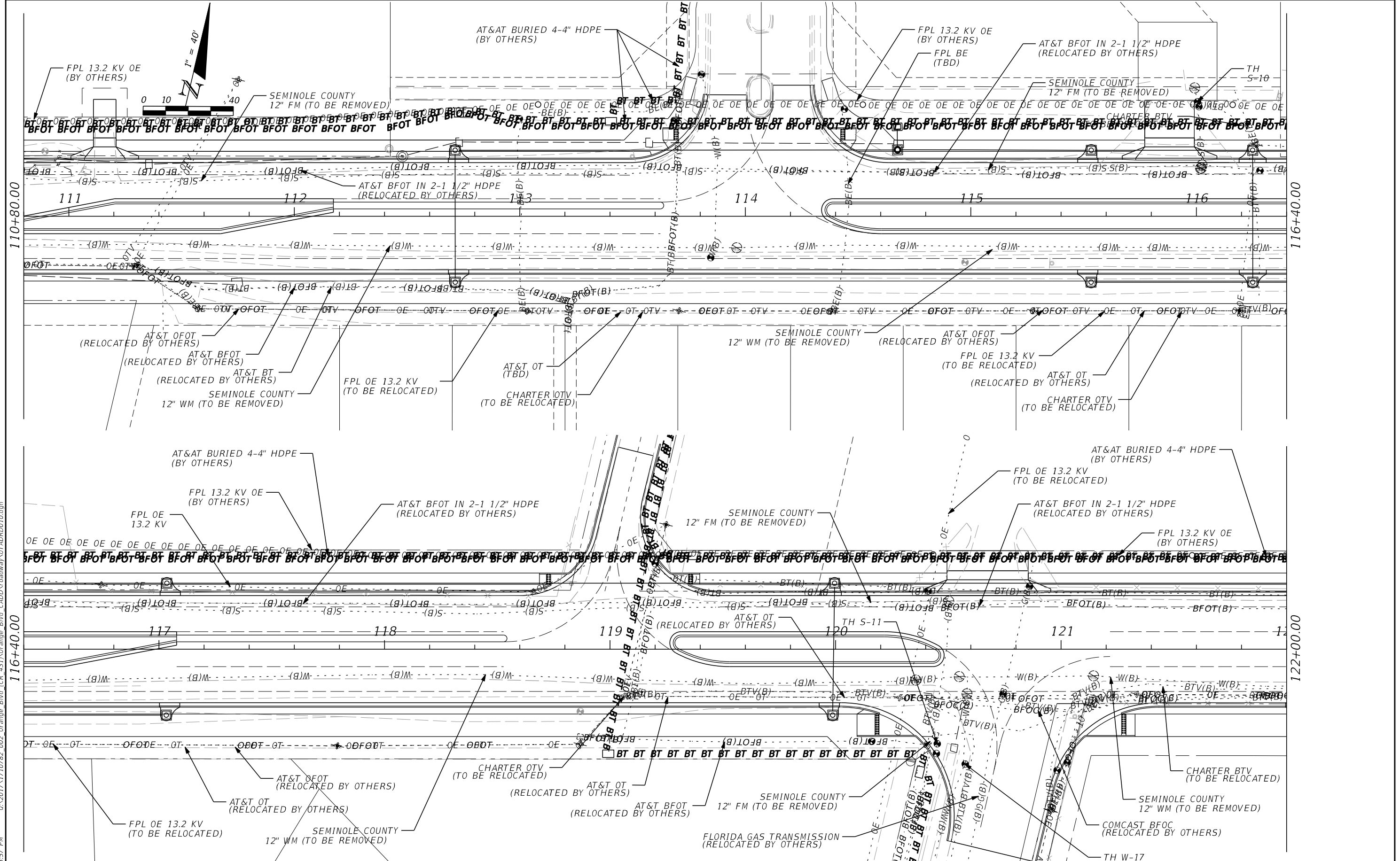
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**UTILITY ADJUSTMENTS**

SHEET NO.  
411



10/10/2022 4:05:57 PM G:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\UT\ADR0010.dgn

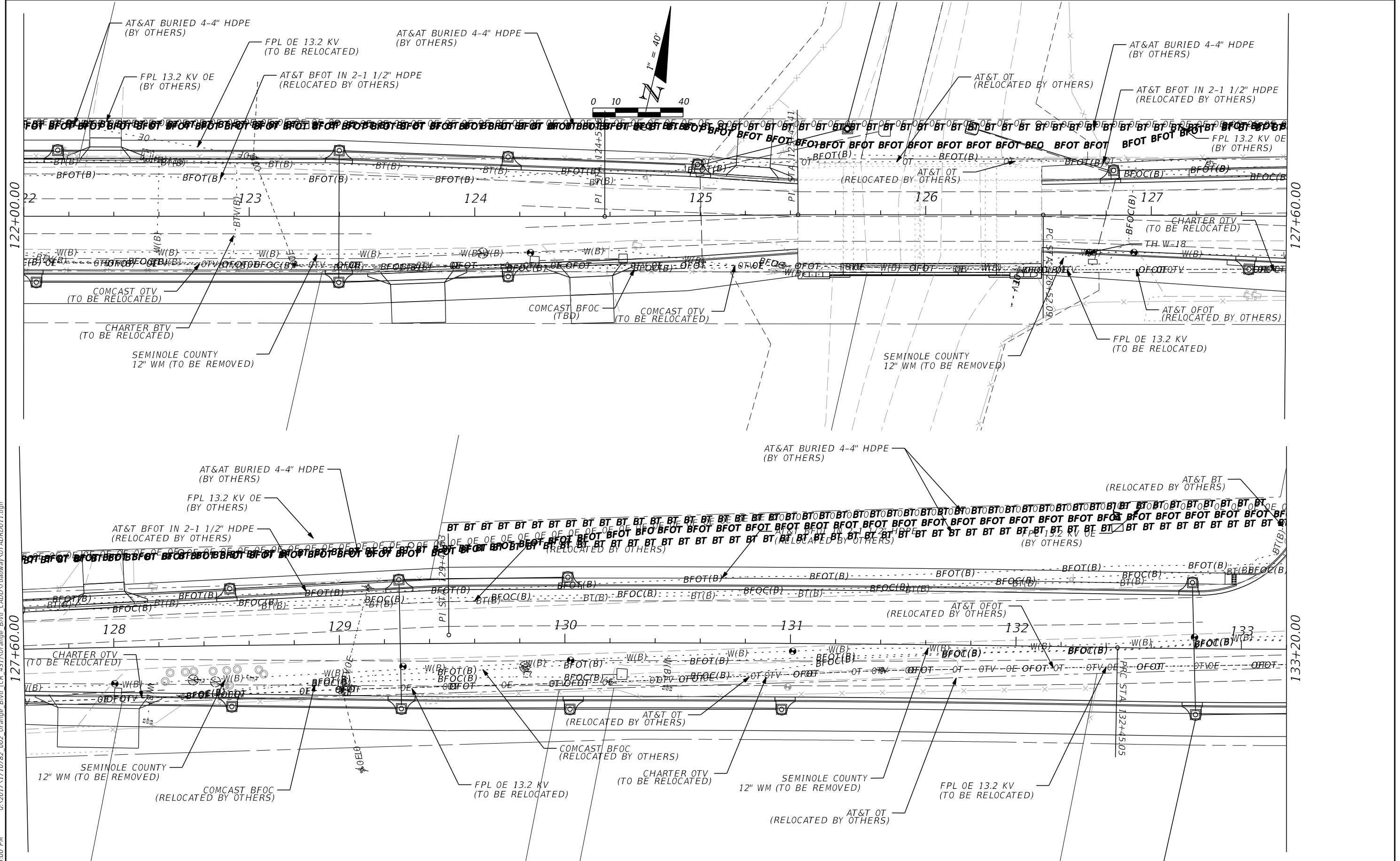
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS	
DATE	DESCRIPTION

SHEET NO.  
412



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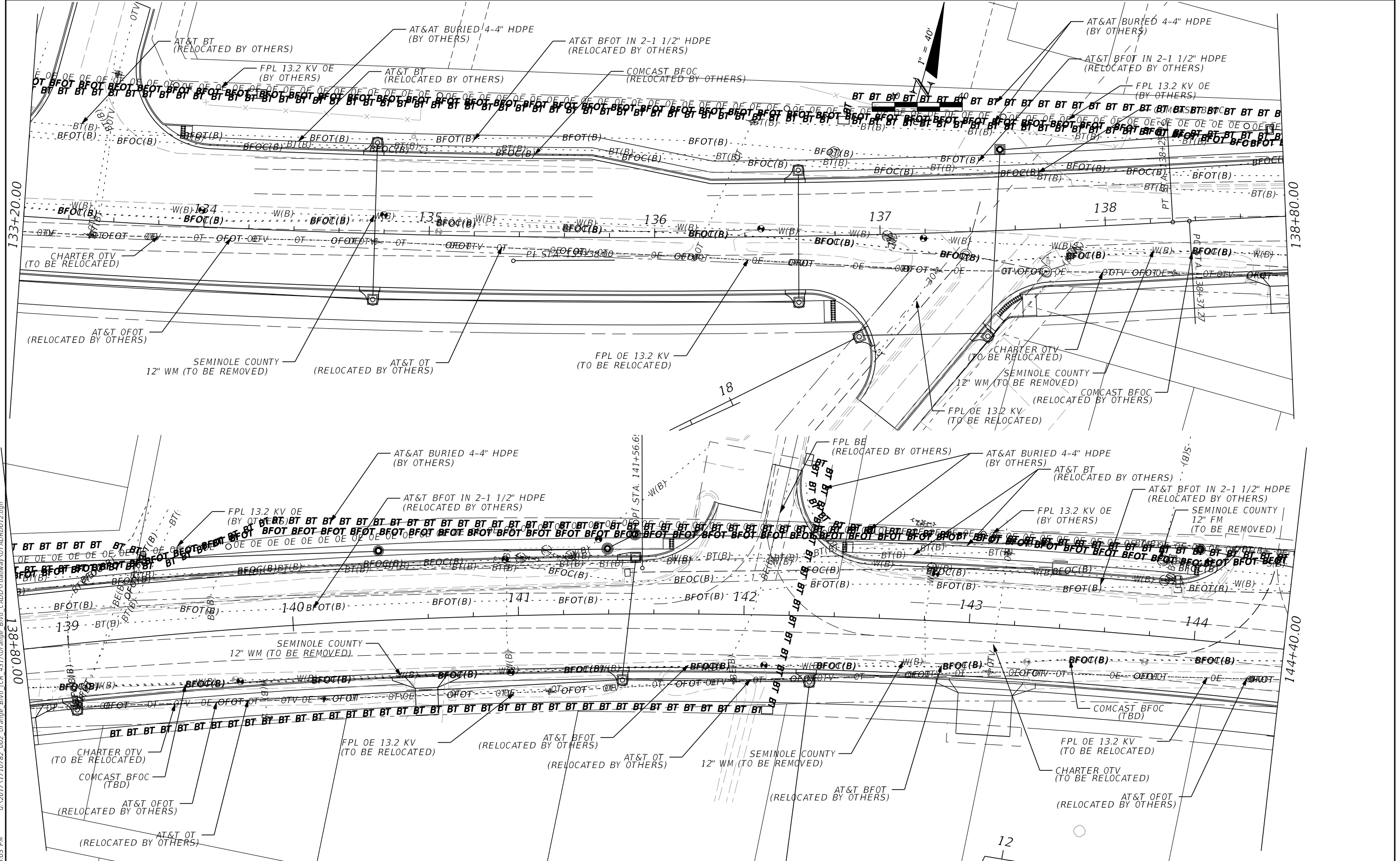
REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS

SHEET NO.  
 413



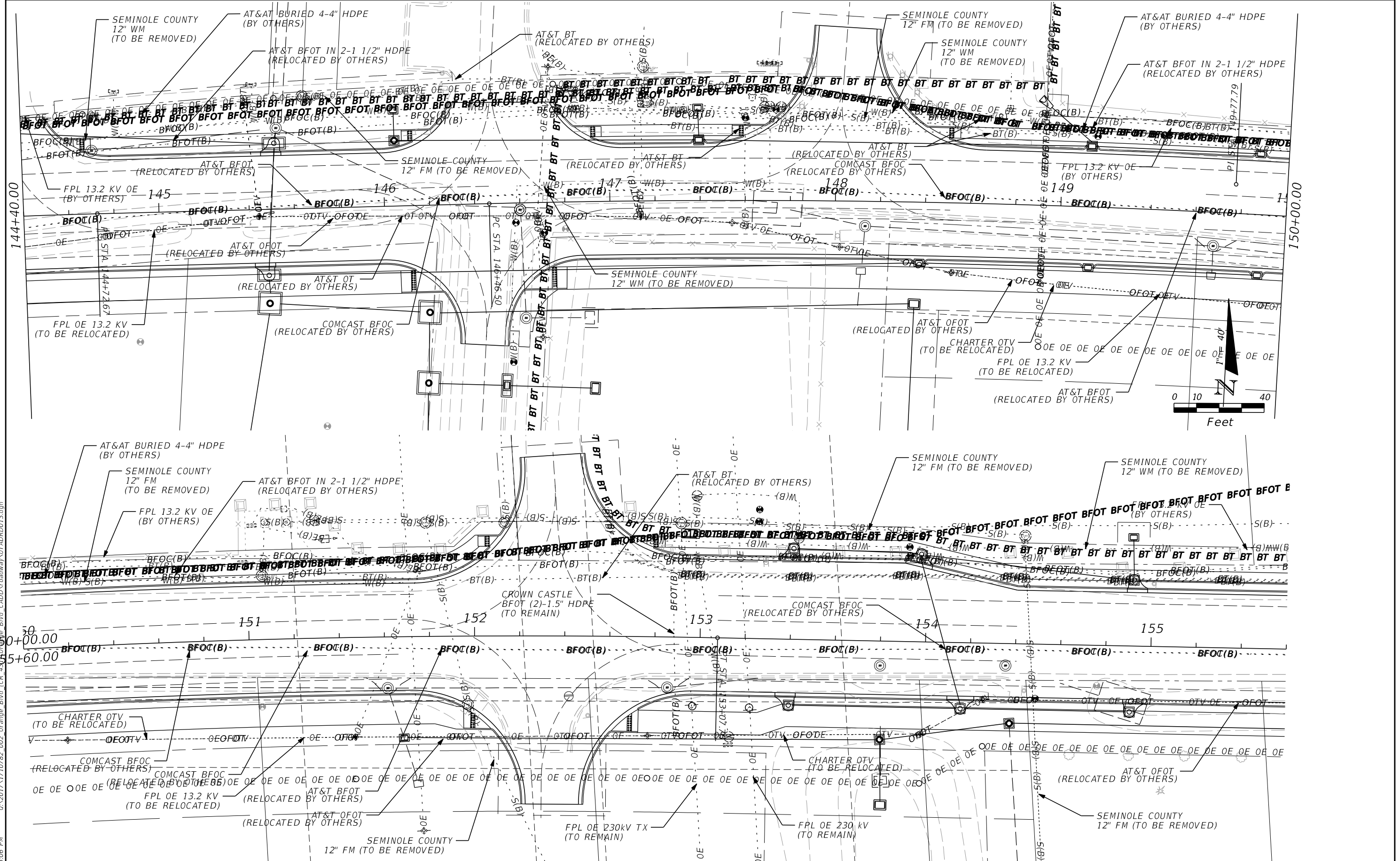
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REVISIONS	
DATE	DESCRIPTION

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS	
DATE	SHEET NO.
	414



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REVISIONS	
DATE	DESCRIPTION

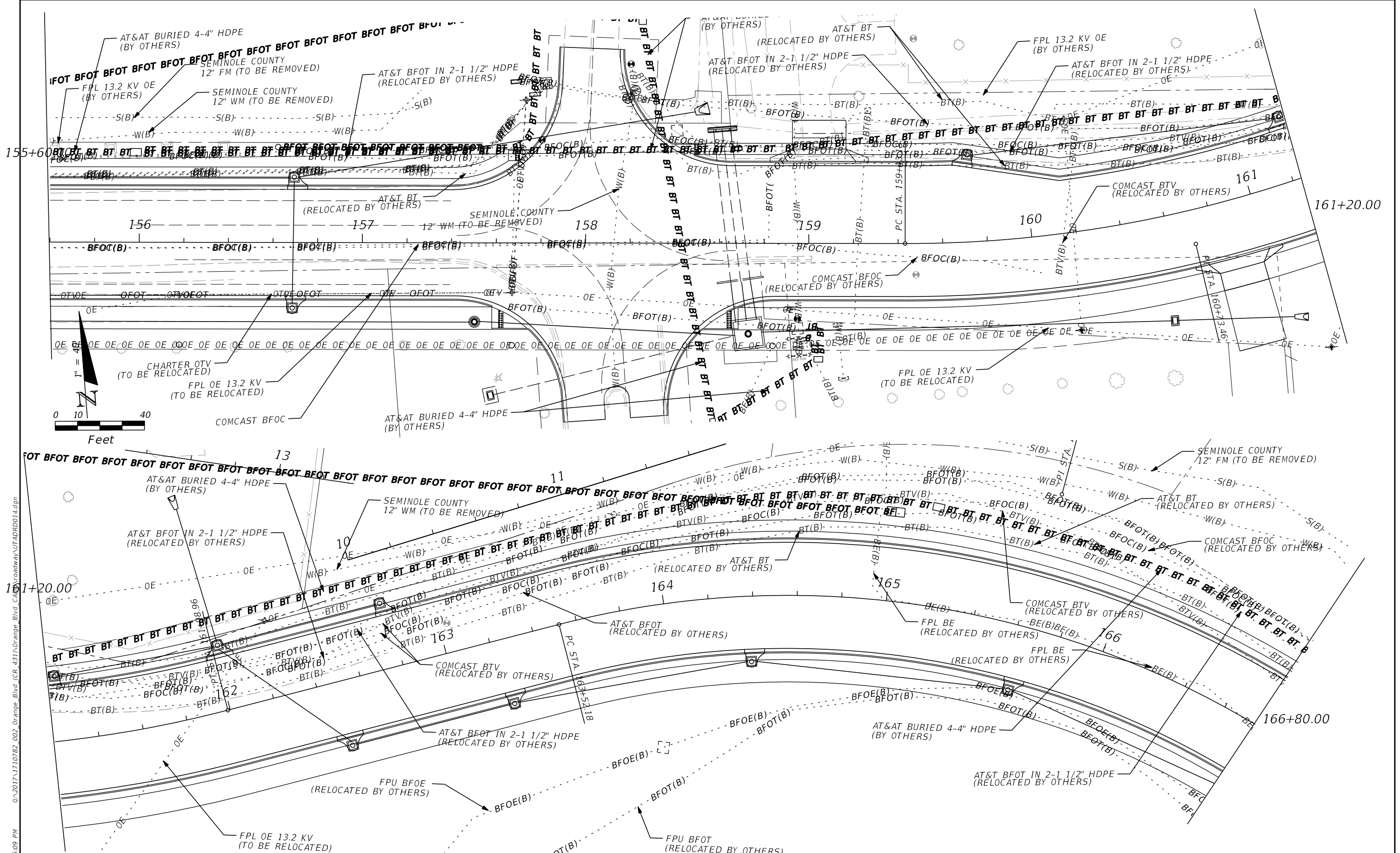
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS

SHEET NO.  
 415





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REVISIONS	
DATE	DESCRIPTION

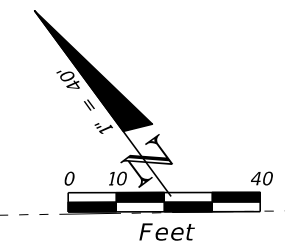
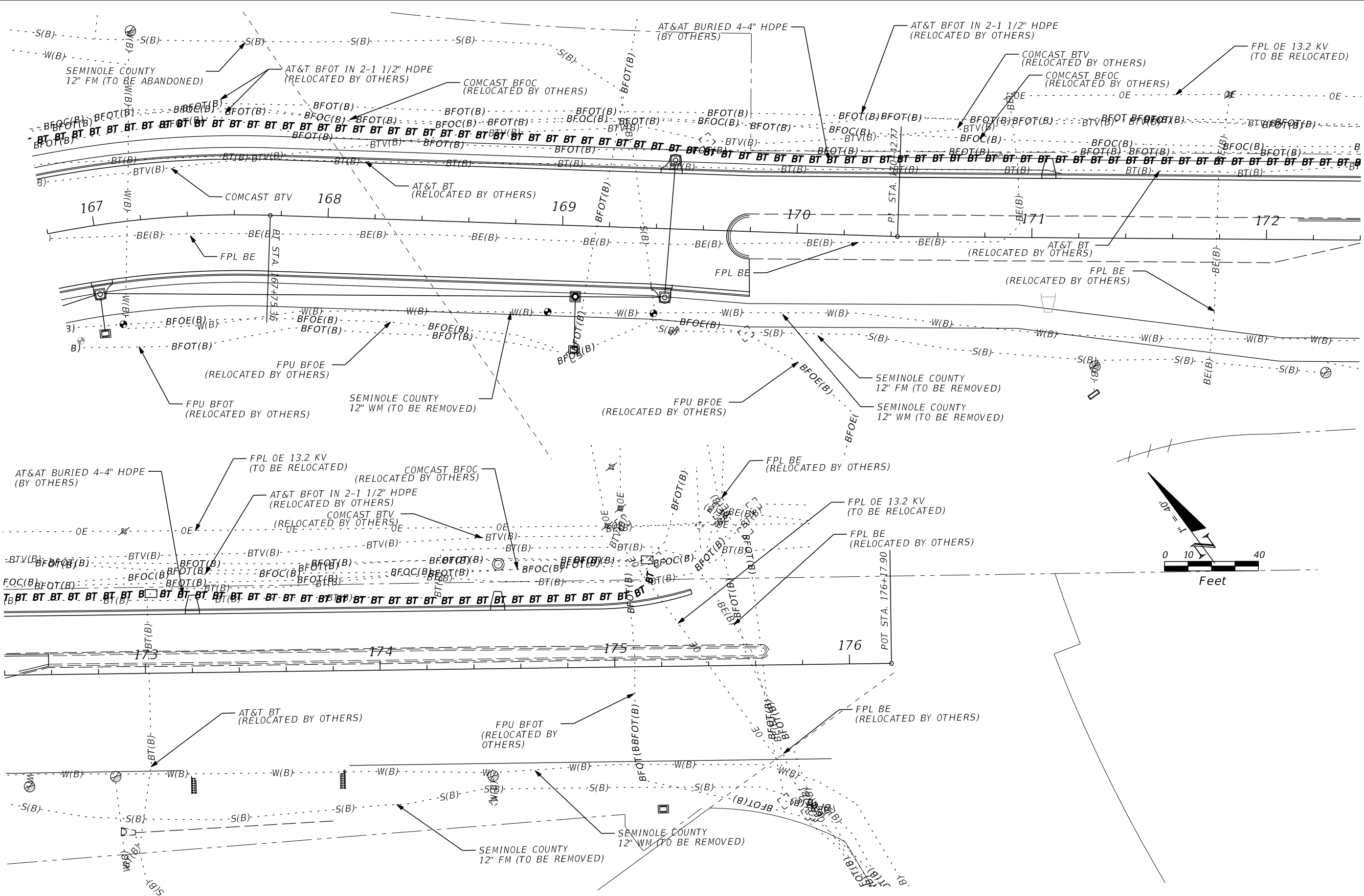
JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

UTILITY ADJUSTMENTS

SHEET NO.  
**416**

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REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
PRELIMINARY NOT FOR CONSTRUCTION			

JASON R. FLICK, P.E.  
 P.E. LICENSE NUMBER 74741  
 JMT - JOHNSON, MIRMIRAN & THOMPSON  
 615 CRESCENT EXECUTIVE COURT, SUITE 106  
 LAKE MARY, FL 32746  
 CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**UTILITY ADJUSTMENTS**

SHEET NO.  
417

No.	Northing	Easting	Grade Elev.	Elev. At Top	Elev. At Bottom	Station	Offset	Description	Owner
TH W-01	1628179.76	539942.08	67.7	64.9	N/A	11+20.41	35.72	(1) 12-IN PVC WM	SEMINOLE COUNTY
TH S-01	1628151.68	539967.35	67.7	60.2	N/A	10+92.28	60.94	(1) 16-IN DIP FM	SEMINOLE COUNTY
TH S-02	1628166.69	539882.40	67.6	64.0	N/A	11+07.46	-23.98	(1) 12-IN PVC FM	SEMINOLE COUNTY
TH W-02	1628986.59	539926.00	64.9	60.3	N/A	19+27.42	8.28	(1) 12-IN PVC WM	SEMINOLE COUNTY
3	1629770.65	539929.64	53.1	50.1	N/A	27+11.00	21.27	(1) 8-IN PVC WM	SEMINOLE COUNTY
TH R-02	1629901.54	539951.06	52.4	50.9	N/A	28+42.41	45.64	(1) 2-IN PVC NPWL	SEMINOLE COUNTY
TH W-04A	1631145.29	540464.37	31.2	28.2	N/A	42+73.72	44.13	(1) 12-IN PVC WM	SEMINOLE COUNTY
TH W-04B	1631168.39	540466.32	29.5	27.3	N/A	42+91.10	28.78	(1) 12-IN PVC WM	SEMINOLE COUNTY
TH S-04	1631829.71	541048.54	29.4	22.5	N/A	51+69.67	-35.27	SEE TH SHEET S-04 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH W-05	1631882.42	541072.94	29.4	N/A	N/A	52+24.09	-55.55	DUG ON LOCATORS MARK, NO UTILITY FOUND	SEMINOLE COUNTY
TH S-05	1632333.52	541684.41	27.8	24.5	N/A	59+79.90	48.60	(1) 8-IN PCV FM	SEMINOLE COUNTY
TH W-06	1632697.22	542245.02	26.7	23.4	N/A	66+62.00	13.86	(1) 12-IN PVC WM	SEMINOLE COUNTY
TH W-07	1632701.25	542256.90	26.7	23.8	N/A	66+74.63	14.06	(1) 12-IN DIP WM	SEMINOLE COUNTY
TH W-08	1632795.90	542801.77	26.6	23.1	N/A	72+28.58	57.98	(1) 10-IN PVC WM	SEMINOLE COUNTY
TH W-09A	1632821.18	542869.71	26.7	23.4	N/A	73+00.51	48.98	(1) 4-IN PVC WM	SEMINOLE COUNTY
TH W-09B	1632811.60	542866.48	26.6	26.6	N/A	72+95.16	57.56	(1) 2 1/2-IN & (1) 1-IN NPWL	SEMINOLE COUNTY
TH S-06	1633037.32	543439.74	27.6	24.2	N/A	79+05.47	-30.41	(1) 4-IN PVC FM	SEMINOLE COUNTY
TH W-10	N/A	N/A	N/A	N/A	N/A			COULD NOT ACCESS	N/A
TH W-11	1633191.43	544068.68	24.7	23.5	N/A	85+52.49	-32.09	(1) 2-IN PVC WM	SEMINOLE COUNTY
TH W-12	N/A	N/A	N/A	N/A	N/A			SERVICE	N/A
TH W-13	1633549.59	545523.63	24.4	19.0	N/A	100+50.81	-46.59	(1) 8-IN PVC WM	SEMINOLE COUNTY
TH S-07	1633578.13	545582.79	23.8	21.5	N/A	101+14.94	-60.79	24" CPP + 8" CPP FM	SEMINOLE COUNTY
TH S-08	1633488.60	545728.14	25.5	22.1	N/A	102+37.38	58.77	(1) 4-IN PVC FM	SEMINOLE COUNTY
TH W-14	1633713.03	546291.68	23.6	18.8	N/A	108+37.25	-41.01	SEE TH SHEET W-14 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH W-15	1633632.68	546325.96	25.1	21.4	N/A	108+49.81	45.44	(1) 10-IN PVC WM	SEMINOLE COUNTY
TH S-09	1633632.88	546337.16	24.8	N/A	N/A	108+60.68	48.12	SEE TH SHEET S-09 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH R-03	1633629.71	546379.56	24.6	N/A	N/A	109+02.48	61.99	SEE TH SHEET R-03 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH W-16	1633861.52	546815.93	23.6	20.1	N/A	113+80.56	-62.89	SEE TH SHEET W-16 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH S-10	1633900.46	547032.76	23.7	19.4	N/A	116+00.52	-50.75	SEE TH SHEET S-10 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH S-11	1633912.82	547486.74	23.6	17.0	N/A	120+45.11	41.96	SEE TH SHEET S-11 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH W-17	1633906.92	547500.88	23.2	18.5	N/A	120+57.51	50.96	(1) 12-IN PVC WM	SEMINOLE COUNTY
TH W-18	1634082.83	548091.14	22.1	20.4	N/A	126+72.46	16.64	(1) 12-IN DIP WM	SEMINOLE COUNTY
TH S-06A	1633216.02	544545.78	25.1	21.9	N/A	90+22.49	53.53	(1) 4-IN PVC FM	SEMINOLE COUNTY
TH E-01	1627967.14	539883.87	68.9	65.0	N/A	is out of	chain	(1) 2-IN PVC BE	SEMINOLE COUNTY
TH E-01A	1627969.41	539936.53	69.0	65.8	N/A	is out of	chain	(1) 2-IN PVC BE	SEMINOLE COUNTY
TH F0-01	1627979.86	539882.53	68.9	N/A	N/A	is out of	chain	SEE TH SHEET F0-01 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH F0-01A	1627977.55	539944.36	68.7	N/A	N/A	is out of	chain	SEE TH SHEET F0-01A FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH W-19	1627999.66	539865.17	69.3	66.7	N/A	is out of	chain	(1) 4-IN PVC WM	N/A
TH W-20	1628129.33	539957.33	68.8	63.8	N/A	10+69.95	50.88	(1) 12-IN PVC WM	SEMINOLE COUNTY
TH G-01	1628157.12	539930.61	68.2	63.4	N/A	10+97.79	24.21	(1) 8-IN PLASTIC GM	FLORIDA PUBLIC UTILITIES
TH S-12	1628151.14	539932.47	68.2	60.7	N/A	10+91.81	26.06	(1) 16-IN DIP FM	SEMINOLE COUNTY
TH T-01	1628179.71	539941.54	67.7	64.9	N/A	11+20.36	35.18	(1) 1/2-IN FOC CABLE	AT&T DISTRIBUTION
TH T-02	1628180.08	539931.48	67.7	65.0	N/A	11+20.75	25.12	(1) 1 1/2-IN BT CABLE	AT&T DISTRIBUTION
TH F0-05	1628151.55	539953.38	67.8	65.4	N/A	10+92.18	46.97	(2) 4-IN PVC FOC	AT&T DISTRIBUTION
TH F0-06	1628179.78	539940.90	67.7	65.2	N/A	11+20.43	34.54	(1) 4-IN PVC FOC	AT&T DISTRIBUTION
TH G-02A	1628161.54	539872.74	67.3	64.3	N/A	11+02.32	-33.65	(1) 8-IN PLASTIC GM	FLORIDA PUBLIC UTILITIES
TH G-02B	1628142.80	539856.22	67.3	64.2	N/A	10+83.62	-50.21	(1) 8-IN PLASTIC GM	FLORIDA PUBLIC UTILITIES
TH S-13	1628149.81	539856.38	67.2	62.7	N/A	10+90.62	-50.04	(1) 16-IN DIP FM	SEMINOLE COUNTY

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF VERIFIED UTILITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		418



No.	Northing	Easting	Grade Elev.	Elev. At Top	Elev. At Bottom	Station	Offset	Description	Owner
TH S-14	N/A	N/A	N/A	N/A	N/A			SEE TH SHEETS S-02 & S-13	N/A
TH F0-03	1628153.97	539857.04	67.2	63.8	N/A	10+94.78	-49.37	(1) 1/2-IN FOC	AT&T DISTRIBUTION
TH F0-04	1628156.86	539857.17	67.2	63.7	N/A	10+97.67	-49.23	(1) 3-IN PVC FOC	AT&T DISTRIBUTION
TH F0-07	1628453.29	539952.57	67.8	62.8	N/A	13+95.09	46.59	(1) 4-IN HDPE FOC	AT&T DISTRIBUTION
TH E-02	1628139.57	539859.15	67.4	65.0	N/A	10+80.38	-47.28	(2) 2-IN PVC BE	SEMINOLE COUNTY TRAFFIC
TH W-51	1634560.98	550696.77	9.4	N/A	N/A	153+25.33	-57.25	DUG ON LOCATORS MARK, NO UTILITY FOUND, SEE TH SHEET	SEMINOLE COUNTY
TH W-51A	1634549.33	550713.43	8.5	3.2	N/A	153+42.87	-46.98	(1) 8-IN PVC WM	SEMINOLE COUNTY
TH W-52	1634540.34	550762.24	8.7	5.0	N/A	153+92.25	-41.95	(1) 12-IN DIP WM	SEMINOLE COUNTY
TH W-52A	1634536.53	550762.30	8.9	4.0	N/A	153+92.62	-38.16	(1) 12-IN AC WM (ABANDONED)	SEMINOLE COUNTY
TH S-21	1634555.70	550696.25	8.6	5.3	N/A	153+25.24	-51.95	SEE TH SHEET S-21 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH W-57	1633551.31	547479.98	24.1	20.3	N/A	119+55.13	392.15	(1) 8-IN PVC WM	SEMINOLE COUNTY
TH W-58	1633027.86	547481.67	25.0	15.1	N/A	118+36.01	901.87	SEE TH SHEET W-58 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH R-05	1632880.26	547491.51	20.9	17.9	N/A	118+11.53	47.76	SEE TH SHEET R-05 FOR ADDITIONAL INFORMATION	SEMINOLE COUNTY
TH G-06	1633990.24	547510.45	23.4	19.0	N/A	120+86.04	-27.91	SEE TH SHEET G-06 FOR ADDITIONAL INFORMATION	FLORIDA GAS TRANSMISSION
TH G-05	1633940.99	547510.02	23.8	18.7	N/A	120+74.26	19.92	SEE TH SHEET G-05 FOR ADDITIONAL INFORMATION	FLORIDA GAS TRANSMISSION
TH ADD1	1633565.55	545658.27	25.1	N/A	N/A	101+85.51	-31.22	DUG ON LOCATORS MARK, NO UTILITY FOUND, SEE TH SHEET	SEMINOLE COUNTY
TH ADD2	1633643.43	546091.26	24.9	19.8	N/A	106+24.79	-21.04	(1) 12-IN PVC FM	SEMINOLE COUNTY
TH ADD3	1633569.46	546082.05	25.1	21.2	N/A	105+99.98	49.22	(1) 8-IN PVC WM	SEMINOLE COUNTY
TH ADD4	1628185.08	539929.65	67.8	N/A	N/A	11+25.76	23.31	DUG ON LOCATORS MARK, NO UTILITY FOUND, SEE TH SHEET	SEMINOLE COUNTY

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF VERIFIED UTILITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		419

*SUMMARY OF LUMP SUM ITEMS*

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101-1	MOBILIZATION	1			
102-1	MAINTENANCE OF TRAFFIC	1			

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<i>REVISIONS</i>				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	<i>SEMINOLE COUNTY PUBLIC WORKS</i>			<i>SUMMARY OF QUANTITIES</i>	SHEET NO.
<i>DATE</i>	<i>DESCRIPTION</i>	<i>DATE</i>	<i>DESCRIPTION</i>		<i>ROAD NO.</i>	<i>COUNTY</i>	<i>SEMINOLE COUNTY CIP</i>		SQ-1
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		

**SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.						AREA (AC)	P	F	P	F		
0110 1 1	Clearing & Grubbing	10+81.09 to 171+00.00	LT/RT	41862			AC		30.97		30.97			
0110 4 10	Removal of Existing Concrete	10+93.75 to 12+57.00	RT				SY		120.0		4873			
		13+01.71 to 14+40.12	RT						80.9					
		14+90.46 to 18+45.28	RT						218.4					
		19+10.03 to 22+90.66	RT						220.9					
		26+41.68 to 27+65.43	RT						93.5					
		28+40.63 to 41+89.53	RT						771.6					
		31+88.12 to 32+13.44	LT						23.2					
		35+34.83 to 35+54.44	LT						38.2					
		38+73.91 to 39+07.17	RT						32.8					
		46+84.40 to 47+05.81	LT						21.7					
		53+74.93 to 53+96.78	RT						11.3					
		55+05.43 to 72+22.86	RT						933.3					
		57+76.12 to 58+03.56	LT						41.9					
		72+97.66 to 77+65.66	RT						260.7					
		76+37.82 to 79+10.98	LT						213.4					
		89+29.92 to 89+49.10	LT						23.9					
		96+14.98 to 96+36.47	LT						28.2					
		97+25.24 to 97+51.41	LT						35.1					
		98+81.11 to 99+12.09	LT						29.9					
		102+33.45 to 105+50.53	RT						176.9					
		102+47.14 to 102+69.27	LT						12					
		103+09.17 to 103+31.96	LT						13.1					
		103+81.82 to 104+06.28	LT						14.3					
		111+57.51 to 120+26.47	RT						491					
		112+42.31 to 113+72.06	LT						10.7					
		114+33.61 to 114+36.71	LT						1.6					
		114+41.32 to 116+36.66	LT						133.6					
		139+29.18 to 141+79.65	LT						139.7					
		140+99.69 to 141+25.31	LT						31.6					
		142+42.32 to 142+49.44	LT						1.2					
		142+47.78 to 144+15.02	LT						99					
		144+50.70 to 146+31.21	LT						99.5					
		146+70.55 to 147+89.16	LT						83.6					
		148+02.03 to 152+08.87	RT						240.3					
		148+30.64 to 148+40.13	LT						14.1					
		152+52.76 to 154+38.07	RT						111.8					

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		SQ-2



**SUMMARY OF EARTHWORK**

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0120 1	REGULAR EXCAVATION		109130.14		
	ROADWAY	30140.52			
	POND WR-1	2678.65			
	POND ND-2	22774.14			
	POND OC2-2	6486.42			
	POND LS-2	8141.72			
	POND OC3-2	7141.20			
	POND BOOKERTOWN	617.62			
	POND OC4-1	3128.70			
	POND OC3-1	28021.17			
0120 6	EMBANKMENT				
	ROADWAY	22872.96	26734.06		
	POND WR-1	17.77			
	POND ND-2	1513.46			
	POND OC2-2	326.31			
	POND LS-2	531.66			
	POND OC3-2	283.97			
	POND BOOKERTOWN	95.24			
	POND OC4-1	701.26			
	POND OC3-1	391.42			

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			SUMMARY OF QUANTITIES	SHEET NO. SQ-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303			

**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	10+74.46 to 12+39.27		RT	58028			SY	238.7		110771			
		12+39.27 to 12+59.25		RT	58033				16.0					
		13+02.18 to 14+43.29		RT	58036				154.2					
		14+89.03 to 18+58.72		RT	57901				419.8					
		19+08.00 to 24+28.65		RT	57889				590.8					
		24+40.64 to 24+83.98		RT	57788				48.1					
		24+91.98 to 27+69.90		RT	57878				327.9					
		28+35.56 to 45+12.46		RT	57912				1533.8					
		41+82.94 to 53+78.57		RT	57932				1263.3					
		53+94.56 to 72+32.52		RT	57858				2035.1					
		72+96.34 to 90+01.32		RT	57843				1907.2					
		90+13.32 to 93+51.31		RT	57836				374.5					
		93+65.30 to 100+62.80		RT	57933				769.1					
		101+09.21 to 105+67.34		RT	57937				511.0					
		105+98.78 to 108+50.84		RT	57947				270.8					
		109+14.60 to 120+42.28		RT	57956				1254.8					
		121+10.80 to 123+63.02		RT	57963				271.9					
		123+86.67 to 124+42.45		RT	57829				60.5					
		124+60.88 to 125+43.16		RT	57820				98.7					
		126+51.34 to 127+08.11		RT	57813				63.2					
		127+23.93 to 127+59.63		RT	57806				35.8					
		127+83.44 to 136+90.94		RT	57967				1003.0					
		137+46.57 to 138+71.71		RT	57981				129.9					
		138+81.81 to 140+52.85		RT	57984				184.7					
		140+62.98 to 146+25.76		RT	57987				612.6					
		146+61.12 to 152+04.74		RT	57994				585.6					
		152+60.59 to 157+74.35		RT	58002				559.5					
		158+52.81 to 160+78.34		RT	58008				252.1					
160+97.51 to 173+27.13		RT	58015				1328.6							
173+76.53 to 175+91.86		RT	57797				226.1							
10+68.54 to 125+43.16		LT/RT	52465				64614.0							
126+51.42 to 151+50.21		LT/RT	51994				16537.7							
151+49.79 to 156+50.00		LT/RT	52035				3725.6							
156+49.91 to 169+80.72		LT/RT	52047				8765.9							
285701	Optional Base, Base Group 01	10+74.46 to 12+39.27		RT	50267			SY	238.7		17127			
		12+39.27 to 12+59.25		RT	50272				16.0					
		13+02.18 to 14+43.29		RT	50276				154.2					
		14+89.03 to 18+58.72		RT	21728				419.8					
		19+08.00 to 24+28.65		RT	21716				590.8					
		24+40.64 to 24+83.98		RT	16555				48.1					
		24+91.98 to 27+69.90		RT	21705				327.9					
		28+35.56 to 45+12.46		RT	34603				1533.8					
		41+82.94 to 53+78.57		RT	34629				1263.3					
		53+94.56 to 72+32.52		RT	21661				2035.1					
		72+96.34 to 90+01.32		RT	21646				1907.2					
		90+13.32 to 93+51.31		RT	21639				374.5					
		93+65.30 to 100+62.80		RT	34635				769.1					
		101+09.21 to 105+67.34		RT	34653				511.0					
		105+98.78 to 108+50.84		RT	34666				270.8					
		109+14.60 to 120+42.28		RT	34675				1254.8					

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JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

**SEMINOLE COUNTY PUBLIC WORKS**

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**SUMMARY OF QUANTITIES**

SHEET NO.  
SQ-5

**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		
285701	Optional Base, Base Group 01 (CONT'D)	121+10.80 to 123+63.02		RT	34686			SY	271.9					
		123+86.67 to 124+42.45		RT	21575				60.5					
		124+60.88 to 125+43.16		RT	21566				98.7					
		126+51.34 to 127+08.11		RT	21559				63.2					
		127+23.93 to 127+59.63		RT	21552				35.8					
		127+83.44 to 136+90.94		RT	34693				1003.0					
		137+46.57 to 138+71.71		RT	34722				129.9					
		138+81.81 to 140+52.85		RT	34731				184.7					
		140+62.98 to 146+25.76		RT	34743				612.6					
		146+61.12 to 152+04.74		RT	34751				585.6					
		152+60.59 to 157+74.35		RT	34760				559.5					
		158+52.81 to 160+78.34		RT	34772				252.1					
		160+97.51 to 173+27.13		RT	34797				1328.6					
		173+76.53 to 175+91.86		RT	16749				226.1					
285709	Optional Base, Base Group 09	11+13.72 to 48+50.00		LT/RT	56754			SY	17961.6		65481			
		53+50.00 to 68+50.00		LT/RT	56367				5775.6					
		81+50.00 to 112+50.00		LT/RT	56735				14519.9					
		117+50.00 to 120+48.15		LT/RT	56539				1573.4					
		120+48.15 to 125+43.55		LT/RT	56649				2905.0					
		126+51.48 to 151+50.19		LT/RT	56669				14863.1					
		156+50.00 to 169+80.78		LT/RT	55950				7882.4					
285710	Optional Base, Base Group 10	48+50.00 to 53+50.00		LT/RT	49518				2709.5		14664.2			
		68+50.00 to 81+50.00		LT/RT	49578				6226.1					
		112+50.00 to 117+50.00		LT/RT	49733				2361.1					
		151+49.82 to 156+50.00		LT/RT	49822				3367.5					
0327 70 1	Milling Exist Asph Pavt, 1" Avg Depth	10+51.67 to 11+13.72		LT/RT	47987			SY	494.0		494			
0327 70 6	Milling Exist Asph Pavt, 1 1/2" Avg Depth	169+79.15 to 175+33.34		LT	48732			SY	676.7		677			
0327 70 17	Milling Exist Asph Pavt, 3 1/4" Avg Depth	169+79.00 to 175+33.34		LT	48741			SY	358.9		718			
		169+80.52 to 175+33.63		RT	48743				358.9					
0334 1 12	Superpave Asphaltic Conc, Traffic B	10+63.67 to 11+13.87		LT	43111			TN	13.89		11630.1			
		10+72.58 to 11+13.79		RT	43117				3.71					
		11+13.72 to 48+50.00		LT/RT	45328				1946.98					
		48+50.00 to 53+50.00		LT/RT	45605				565.58					
		53+50.00 to 68+50.00		LT/RT	45544				697.95					
		68+50.00 to 81+50.00		LT/RT	45684				1198.80					
		81+50.00 to 112+50.00		LT/RT	45729				1797.19					
		112+50.00 to 117+50.00		LT/RT	45839				694.51					
		117+50.00 to 120+48.15		LT/RT	45864				312.87					
		120+48.15 to 125+43.55		LT/RT	44750				348.55					
		126+51.48 to 151+50.19		LT/RT	44754				1830.06					
		151+49.82 to 156+50.00		LT/RT	44794				848.24					
		156+50.00 to 169+80.78		LT/RT	44824				1083.39					
		169+80.78 to 175+33.31		LT/RT	34534				288.35					
0337 7 80	Asphalt Concrete Friction Course, Traffic B, FC-9.5, PG 76-22	10+63.67 to 11+13.87		LT	43111			TN	6.97		4539.6			
		10+72.58 to 11+13.79		RT	43117				4.06					
		11+13.72 to 48+50.00		LT/RT	45328				973.39					
		48+50.00 to 53+50.00		LT/RT	34559				8.79					
		53+50.00 to 68+50.00		LT/RT	45605				159.02					

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<p align="center"><b>REVISIONS</b></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><b>PRELIMINARY NOT FOR CONSTRUCTION</b></td> <td></td> <td></td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION		<b>PRELIMINARY NOT FOR CONSTRUCTION</b>			<p>JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN &amp; THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917</p>	<p align="center"><b>SEMINOLE COUNTY PUBLIC WORKS</b></p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>SEMINOLE COUNTY CIP</th> </tr> </thead> <tbody> <tr> <td>CR 431</td> <td>SEMINOLE</td> <td>01785303</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	<p align="center"><b>SUMMARY OF QUANTITIES</b></p>	<p>SHEET NO. SQ-6</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																		
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>																				
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																			
CR 431	SEMINOLE	01785303																			

**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		
0337 7 80	Asphalt Concrete Friction Course, Traffic B, EC-9 5, PG 76-22 (CONT'D)	68+50.00 to 81+50.00		LT/RT	45544			TN	343.98					
		81+50.00 to 112+50.00		LT/RT	45684				352.43					
		112+50.00 to 117+50.00		LT/RT	45729				798.50					
		117+50.00 to 120+48.15		LT/RT	45839				139.86					
		120+48.15 to 125+43.55		LT/RT	45864				96.39					
		126+51.48 to 151+50.19		LT/RT	44750				164.28					
		151+49.82 to 156+50.00		LT/RT	44754				835.03					
		156+50.00 to 169+80.78		LT/RT	44794				195.21					
		169+80.78 to 175+33.31		LT/RT	44824				461.70					

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DATE	DESCRIPTION	DATE	DESCRIPTION																		
	PRELIMINARY NOT FOR CONSTRUCTION																				
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																			
CR 431	SEMINOLE	01785303																			



SUMMARY OF WALLS												
WALL NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			STA.	TO STA.			P	F	P	F		
1	400 0 11	CONCRETE CLASSS NS, GRAVITY WALL	20+48.56	to 23+50.34	RT	CY	96.6		110			
2	400 0 11	CONCRETE CLASSS NS, GRAVITY WALL	77+50.00	to 78+10.00	RT	CY	13.2					

SUMMARY OF MISCELLANEOUS DRAINAGE ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0425 10	YARD DRAIN	10+51.67	TO 176+17.56	LT	EA	88				200' SPACING FOR	
0440 1 10	UNDERDRAIN, TYPE I	146+92.44	TO 147+67.30	RT	LF	80.0				PHASE II CONSTRUCTION BOOKERTOWN POND	

SUMMARY OF GUARDRAIL												
WALL NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			STA.	TO STA.			P	F	P	F		
1	515 1 2	PIPE HANDRAIL, GUIDERAIL, ALUMINUM	76+20.00	to 76+35.00	LT	LF	15.0		15			

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REVISIONS																														
DATE	DESCRIPTION	DATE	DESCRIPTION																											
	PRELIMINARY NOT FOR CONSTRUCTION																													
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																												
CR 431	SEMINOLE	01785303																												

**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P		
		TYPE					LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E	16+69.37 to 18+63.34	RT		LF	194.0			194.0	12903			
		16+69.41 to 17+19.49	LT/RT			51.0			51.0				
		17+19.49 to 18+41.78	LT			122.3			122.3				
		18+41.78 to 18+65.02	LT			24.2			24.2				
		18+63.34 to 18+65.02	LT/RT			9.2			9.2				
		20+74.01 to 21+24.15	LT/RT			51.0			51.0				
		20+74.01 to 21+91.76	RT			117.7			117.7				
		21+24.15 to 22+41.76	LT			117.6			117.6				
		21+91.76 to 22+41.76	LT/RT			50.9			50.9				
		24+84.84 to 24+86.52	LT/RT			9.2			9.2				
		24+84.84 to 25+08.04	RT			24.2			24.2				
		24+86.52 to 27+51.15	LT			264.6			264.6				
		25+08.04 to 27+72.71	RT			264.7			264.7				
		27+51.15 to 27+74.39	LT			24.2			24.2				
		27+72.71 to 27+74.39	LT/RT			9.3			9.3				
		30+03.17 to 30+53.38	LT/RT			51.1			51.1				
		30+03.17 to 38+50.01	RT			843.3			843.3				
		30+53.38 to 39+00.19	LT			850.3			850.3				
		38+50.01 to 39+00.19	LT/RT			51.0			51.0				
		42+38.74 to 42+88.74	LT/RT			50.9			50.9				
		42+38.74 to 45+12.46	RT			273.8			273.8				
		42+88.74 to 45+12.52	LT			223.7			223.7				
		45+12.46 to 49+43.16	RT			430.7			430.7				
		45+12.52 to 49+93.16	LT			480.6			480.6				
		49+43.16 to 49+93.16	LT/RT			50.9			50.9				
		54+02.73 to 54+52.88	LT/RT			51.0			51.0				
		54+02.73 to 58+31.53	RT			428.8			428.8				
		54+52.88 to 58+31.53	LT			378.7			378.7				
		58+31.53 to 65+86.73	RT			752.8			752.8				
		58+31.53 to 66+08.04	LT			779.1			779.1				
		65+86.73 to 66+09.73	RT			24.0			24.0				
		66+08.04 to 66+09.73	LT/RT			9.2			9.2				
		66+80.38 to 66+82.08	LT/RT			9.2			9.2				
		66+80.38 to 67+03.38	RT			24.0			24.0				
		66+82.03 to 68+79.89	LT			198.5			198.5				
		67+03.35 to 68+79.89	RT			176.0			176.0				
		68+79.89 to 70+17.66	RT			137.8			137.8				
		68+79.89 to 70+67.80	LT			187.9			187.9				
		70+17.66 to 70+67.80	LT/RT			51.0			51.0				
		74+82.55 to 74+99.41	RT			16.9			16.9				
		74+82.55 to 75+32.69	LT/RT			51.0			51.0				
		74+99.42 to 76+84.85	RT			185.4			185.4				
		75+32.69 to 77+34.99	LT			202.3			202.3				
		76+84.85 to 77+34.99	LT/RT			51.0			51.0				
		79+66.36 to 79+68.04	LT/RT			9.2			9.2				
		79+66.36 to 79+89.59	RT			24.2			24.2				
		79+68.04 to 81+29.11	LT			161.2			161.2				
		79+89.59 to 81+29.22	RT			139.5			139.5				
		81+29.11 to 85+90.31	LT			461.2			461.2				
		81+29.22 to 81+35.08	RT			5.9			5.9				

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		SQ-9
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		

**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P		
		TYPE					LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E (CONT'D)	81+35.08 to 85+40.17	RT		LF	405.1			405.1				
		85+40.17 to 85+90.31	LT/RT			51.0			51.0				
		89+63.83 to 90+13.97	LT/RT			51.0			51.0				
		89+63.83 to 98+33.51	RT			869.7			869.7				
		90+13.97 to 98+83.65	LT			869.7			869.7				
		98+33.51 to 98+83.65	LT/RT			51.0			51.0				
		102+82.94 to 103+32.10	RT			49.2			49.2				
		102+82.97 to 103+33.11	LT/RT			51.0			51.0				
		103+32.10 to 103+82.24	LT/RT			51.0			51.0				
		103+33.11 to 103+82.24	LT			49.1			49.1				
		107+86.43 to 108+36.57	LT/RT			51.0			51.0				
		107+86.43 to 108+57.90	RT			71.5			71.5				
		108+36.57 to 108+59.60	LT			24.0			24.0				
		108+57.90 to 108+59.60	LT/RT			9.2			9.2				
		110+70.43 to 111+20.44	LT/RT			50.9			50.9				
		110+70.43 to 111+67.18	RT			96.7			96.7				
		111+20.44 to 112+17.32	LT			96.9			96.9				
		111+67.18 to 112+17.32	LT/RT			51.0			51.0				
		114+37.12 to 114+38.80	LT/RT			9.2			9.2				
		114+37.12 to 114+60.36	RT			24.2			24.2				
		114+38.80 to 117+07.82	LT			269.0			269.0				
		114+60.36 to 116+57.82	RT			197.5			197.5				
		116+57.82 to 117+07.82	LT/RT			50.9			50.9				
		119+29.83 to 119+31.51	LT/RT			9.2			9.2				
119+29.83 to 119+53.07	RT			24.2			24.2						
119+31.51 to 120+21.59	LT			90.1			90.1						
119+53.07 to 120+43.15	RT			90.1			90.1						
120+21.59 to 120+44.83	LT			24.2			24.2						
120+43.15 to 120+44.83	LT/RT			9.2			9.2						
0520 1 10	Concrete Curb & Gutter, Type F	10+65.18 to 10+71.14	LT		LF	21.0			21.0	32505			
		10+72.46 to 10+74.46	RT			2.0			2.0				
		10+73.61 to 10+87.52	LT			16.9			16.9				
		10+73.96 to 10+75.81	RT			9.4			9.4				
		10+77.37 to 10+92.00	RT			21.3			21.3				
		10+91.36 to 10+98.67	LT			7.4			7.4				
		10+97.13 to 11+07.41	RT			10.4			10.4				
		10+98.67 to 12+50.29	LT			151.6			151.6				
		11+07.41 to 11+26.27	RT			18.9			18.9				
		11+26.27 to 11+76.27	RT			51.2			51.2				
		11+76.27 to 12+40.36	RT			64.1			64.1				
		12+40.36 to 12+51.93	RT			12.1			12.1				
		12+60.22 to 12+61.95	RT			3.7			3.7				
		12+61.95 to 12+63.84	RT			10.5			10.5				
		12+94.28 to 13+08.92	LT			14.6			14.6				
		13+01.74 to 13+23.33	RT			27.4			27.4				
		13+08.92 to 13+58.92	LT			51.2			51.2				
		13+23.33 to 13+89.03	RT			65.1			65.1				
13+58.92 to 13+88.70	LT			30.1			30.1						
13+88.37 to 14+16.69	RT			27.7			27.7						
13+88.70 to 19+06.22	LT			517.2			517.2						

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<p align="center"><b>REVISIONS</b></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><b>PRELIMINARY NOT FOR CONSTRUCTION</b></td> <td></td> <td></td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION		<b>PRELIMINARY NOT FOR CONSTRUCTION</b>			<p>JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN &amp; THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917</p>	<p align="center"><b>SEMINOLE COUNTY PUBLIC WORKS</b></p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>SEMINOLE COUNTY CIP</th> </tr> </thead> <tbody> <tr> <td>CR 431</td> <td>SEMINOLE</td> <td>01785303</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	<p align="center"><b>SUMMARY OF QUANTITIES</b></p>	<p>SHEET NO. <b>SQ-10</b></p>
DATE	DESCRIPTION	DATE	DESCRIPTION																		
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>																				
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																			
CR 431	SEMINOLE	01785303																			

**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 TYPE	LENGTH	NET LENGTH		P		
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	14+16.69 to 14+30.65	RT		LF	14.4				14.4			
		14+44.53 to 14+50.18	RT			18.9				18.9			
		14+81.43 to 14+87.81	RT			20.8				20.8			
		15+00.97 to 15+14.92	RT			14.4				14.4			
		15+14.92 to 18+26.74	RT			311.8				311.8			
		18+26.74 to 18+52.94	RT			30.1				30.1			
		18+55.24 to 18+60.23	RT			17.7				17.7			
		18+80.93 to 18+91.50	RT			16.8				16.8			
		19+06.22 to 21+68.68	LT			262.5				262.5			
		19+06.24 to 19+11.66	RT			19.0				19.0			
		19+14.04 to 19+39.74	RT			29.3				29.3			
		19+39.74 to 24+18.55	RT			478.8				478.8			
		22+04.68 to 23+99.49	LT			194.8				194.8			
		23+99.46 to 24+16.07	LT			17.4				17.4			
		23+99.48 to 24+20.71	LT			23.0				23.0			
		24+21.93 to 24+32.99	LT			28.2				28.2			
		24+32.92 to 24+32.99	LT			16.1				16.1			
		24+49.97 to 24+73.98	RT			24.0				24.0			
		24+60.82 to 24+61.17	LT			16.1				16.1			
		24+60.82 to 24+72.12	LT			29.1				29.1			
		24+77.83 to 24+94.33	LT			17.2				17.2			
		24+94.33 to 27+86.37	LT			292.0				292.0			
		25+01.98 to 27+41.16	RT			239.2				239.2			
		27+41.16 to 27+64.77	RT			26.2				26.2			
		27+67.44 to 27+72.01	RT			9.0				9.0			
		27+67.44 to 27+74.66	RT			23.2				23.2			
		27+73.73 to 27+74.66	RT			40.5				40.5			
		27+95.56 to 27+96.89	RT			1.3				1.3			
		27+96.14 to 27+97.18	RT			45.4				45.4			
		27+97.18 to 28+12.19	RT			21.4				21.4			
		28+11.39 to 28+12.72	RT			1.3				1.3			
		28+12.14 to 28+12.19	RT			45.0				45.0			
		28+22.52 to 28+75.89	LT			53.4				53.4			
		28+33.04 to 28+35.04	RT			2.0				2.0			
		28+34.54 to 28+34.60	RT			45.9				45.9			
		28+34.60 to 28+39.32	RT			16.6				16.6			
		28+41.76 to 28+63.10	RT			24.1				24.1			
		28+63.17 to 29+66.78	RT			103.6				103.6			
		29+11.89 to 29+66.78	LT			54.9				54.9			
		29+66.78 to 30+35.72	LT			70.1				70.1			
		29+66.78 to 39+90.41	RT			1006.4				1006.4			
		29+66.78 to 40+34.39	LT			1085.6				1085.6			
		30+74.29 to 31+76.99	LT			104.4				104.4			
		32+18.16 to 35+30.01	LT			317.1				317.1			
		35+33.78 to 35+37.77	LT			4.1				4.1			
		35+33.79 to 35+41.35	LT			7.7				7.7			
		35+33.80 to 35+33.81	LT			0.5				0.5			
		35+37.77 to 35+37.77	LT			0.7				0.7			
		35+37.77 to 35+53.53	LT			16.0				16.0			
		35+41.35 to 35+51.89	LT			10.7				10.7			

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**SUMMARY OF QUANTITIES**

SHEET NO.  
SQ-11

**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 TYPE	LENGTH	NET LENGTH		P		
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	35+51.89 to 35+57.78	LT		LF	6.0			6.0				
		35+53.53 to 35+53.54	LT			0.7			0.7				
		35+53.53 to 35+57.79	LT			4.3			4.3				
		35+57.78 to 35+57.79	LT			0.5			0.5				
		35+61.48 to 38+52.05	LT			295.5			295.5				
		38+83.55 to 39+98.27	LT			116.7			116.7				
		39+90.41 to 40+34.58	RT			44.6			44.6				
		40+34.39 to 40+41.37	LT			7.5			7.5				
		40+34.58 to 40+69.61	RT			35.1			35.1				
		40+44.58 to 40+47.76	LT			26.3			26.3				
		40+63.43 to 40+66.78	LT			5.6			5.6				
		40+66.78 to 40+78.66	LT			24.6			24.6				
		40+69.61 to 41+04.40	RT			34.9			34.9				
		40+78.62 to 40+84.74	LT			10.9			10.9				
		40+87.92 to 40+99.69	LT			12.6			12.6				
		40+99.69 to 41+82.94	LT			84.7			84.7				
		41+04.40 to 41+48.57	RT			44.6			44.6				
		41+19.51 to 41+82.94	LT			64.5			64.5				
		41+48.57 to 41+82.94	RT			33.8			33.8				
		41+82.94 to 42+06.15	RT			23.2			23.2				
		41+82.94 to 43+50.90	LT			168.0			168.0				
		42+51.15 to 45+12.46	RT			261.5			261.5				
		43+82.90 to 45+12.69	LT			129.3			129.3				
		45+12.46 to 51+30.78	RT			618.5			618.5				
		45+12.69 to 46+77.37	LT			164.7			164.7				
		47+12.15 to 47+82.85	LT			70.7			70.7				
		48+14.84 to 49+64.90	LT			150.1			150.1				
		49+96.90 to 51+42.04	LT			145.1			145.1				
		51+30.78 to 52+53.98	RT			123.2			123.2				
		51+42.08 to 51+56.24	LT			14.6			14.6				
		51+64.42 to 51+75.34	LT			24.5			24.5				
		51+75.34 to 51+86.33	LT			46.7			46.7				
		52+19.59 to 52+30.65	LT			25.9			25.9				
		52+38.76 to 52+53.01	LT			14.7			14.7				
		52+53.01 to 57+77.32	LT			524.3			524.3				
		52+53.98 to 52+86.52	RT			32.5			32.5				
		52+86.52 to 53+68.57	RT			82.1			82.1				
		54+04.57 to 58+31.53	RT			427.0			427.0				
		58+13.32 to 58+32.64	LT			19.3			19.3				
		58+31.53 to 61+93.31	LT			366.6			366.6				
		58+31.53 to 68+79.89	RT			1034.6			1034.6				
		62+24.83 to 63+85.41	LT			162.7			162.7				
		64+22.83 to 65+87.66	LT			167.0			167.0				
		65+87.66 to 66+01.31	LT			14.3			14.3				
		66+09.45 to 66+19.87	LT			23.3			23.3				
		66+19.87 to 66+22.37	LT			19.2			19.2				
		66+38.54 to 66+39.51	LT			8.0			8.0				
		66+38.54 to 66+48.99	LT			32.0			32.0				
		66+57.13 to 66+70.78	LT			14.3			14.3				
		66+70.78 to 68+79.89	LT			211.9			211.9				

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DATE	DESCRIPTION	DATE	DESCRIPTION																		
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>																				
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																			
CR 431	SEMINOLE	01785303																			

**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P		
		TYPE					LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	68+79.89 to 72+01.61	RT		LF	321.7			321.7				
		68+79.89 to 72+60.02	LT			380.1			380.1				
		72+01.61 to 72+25.38	RT			26.4			26.4				
		72+28.03 to 72+35.11	RT			21.9			21.9				
		72+35.11 to 72+35.38	RT			31.9			31.9				
		72+60.02 to 72+60.02	LT			0.5			0.5				
		72+60.02 to 72+66.02	LT			6.0			6.0				
		72+66.02 to 72+66.02	LT			0.8			0.8				
		72+66.02 to 72+98.02	LT			32.0			32.0				
		72+93.73 to 72+93.91	RT			31.1			31.1				
		72+98.02 to 72+98.02	LT			0.8			0.8				
		72+98.02 to 73+04.02	LT			6.0			6.0				
		73+04.02 to 73+04.02	LT			0.5			0.5				
		73+04.02 to 73+32.33	LT			28.3			28.3				
		73+27.41 to 74+99.53	RT			172.1			172.1				
		73+32.33 to 74+99.36	LT			167.0			167.0				
		74+99.37 to 78+93.04	LT			393.7			393.7				
		74+99.52 to 78+99.97	RT			400.7			400.7				
		78+93.04 to 79+17.39	LT			36.9			36.9				
		78+99.97 to 81+29.39	RT			229.2			229.2				
		79+17.39 to 79+17.63	LT			14.0			14.0				
		79+43.45 to 79+43.49	LT			2.8			2.8				
		79+43.45 to 79+54.64	LT			28.7			28.7				
		79+62.99 to 79+76.95	LT			14.4			14.4				
		79+76.95 to 81+28.95	LT			152.4			152.4				
		81+28.95 to 85+68.42	LT			439.5			439.5				
		81+29.39 to 87+02.38	RT			573.0			573.0				
		86+06.42 to 87+25.71	LT			119.3			119.3				
		87+02.38 to 88+25.58	RT			123.2			123.2				
		87+25.71 to 87+39.66	LT			14.4			14.4				
		87+48.01 to 87+58.69	LT			22.3			22.3				
		88+05.47 to 88+16.52	LT			25.2			25.2				
		88+24.87 to 88+38.83	LT			14.4			14.4				
		88+25.58 to 88+58.11	RT			32.5			32.5				
		88+38.83 to 88+58.45	LT			19.6			19.6				
		88+58.11 to 89+91.33	RT			133.2			133.2				
		88+90.45 to 89+22.03	LT			31.6			31.6				
		89+52.03 to 91+05.91	LT			153.9			153.9				
		90+23.32 to 93+41.31	RT			318.0			318.0				
		91+05.92 to 91+29.93	LT			31.9			31.9				
		91+29.92 to 91+29.93	LT			1.0			1.0				
		91+56.93 to 91+56.93	LT			1.3			1.3				
		91+56.93 to 91+75.97	LT			27.0			27.0				
		91+75.97 to 92+06.40	LT			30.4			30.4				
		92+42.40 to 95+54.19	LT			311.8			311.8				
		93+75.31 to 100+38.78	RT			663.5			663.5				
		95+90.25 to 96+07.84	LT			17.6			17.6				
		96+43.89 to 97+17.09	LT			73.2			73.2				
		97+59.11 to 98+80.05	LT			120.9			120.9				
		99+16.04 to 100+12.15	LT			96.1			96.1				

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		5Q-13

**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)	100+12.15 to 100+29.03	LT		LF	17.2			17.2					
		100+38.78 to 100+51.62	RT			13.3			13.3					
		100+39.35 to 100+60.65	LT			47.3			47.3					
		100+63.31 to 100+66.65	RT			9.2			9.2					
		101+04.92 to 101+08.26	RT			9.2			9.2					
		101+10.92 to 101+34.02	LT			49.5			49.5					
		101+19.95 to 101+32.78	RT			13.3			13.3					
		101+32.78 to 101+99.07	RT			66.3			66.3					
		101+37.51 to 101+59.42	LT			22.7			22.7					
		101+59.42 to 101+99.40	LT			40.3			40.3					
		101+99.07 to 103+83.01	RT			183.3			183.3					
		101+99.40 to 102+45.06	LT			46.0			46.0					
		102+75.06 to 103+08.01	LT			33.0			33.0					
		103+38.02 to 103+77.63	LT			39.6			39.6					
		103+83.01 to 104+29.08	RT			45.4			45.4					
		104+07.65 to 104+29.08	LT			21.4			21.4					
		104+29.08 to 105+36.92	RT			108.4			108.4					
		104+29.08 to 105+39.57	LT			109.9			109.9					
		105+36.74 to 105+69.85	RT			52.0			52.0					
		105+39.57 to 105+52.82	LT			13.5			13.5					
		105+61.20 to 105+73.47	LT			29.5			29.5					
		105+70.21 to 105+70.28	RT			6.3			6.3					
		105+90.88 to 106+03.53	LT			29.9			29.9					
		105+92.51 to 105+92.57	RT			5.3			5.3					
		105+92.80 to 105+98.37	RT			20.1			20.1					
		106+10.86 to 106+25.91	RT			15.7			15.7					
		106+12.20 to 106+24.77	LT			12.8			12.8					
		106+24.77 to 108+25.43	LT			199.6			199.6					
		106+25.28 to 108+24.86	RT			200.6			200.6					
		108+24.86 to 108+38.73	RT			14.4			14.4					
		108+25.43 to 108+99.94	LT			74.5			74.5					
		108+51.60 to 108+55.93	RT			9.9			9.9					
		108+99.94 to 111+00.90	LT			201.6			201.6					
		109+09.26 to 109+13.84	RT			10.0			10.0					
		109+27.00 to 109+40.95	RT			14.4			14.4					
		109+40.95 to 109+79.32	RT			38.4			38.4					
		109+79.32 to 120+02.68	RT			1023.4			1023.4					
		111+30.87 to 113+48.78	LT			217.9			217.9					
		113+48.78 to 113+72.75	LT			26.7			26.7					
		113+75.37 to 113+81.96	LT			17.2			17.2					
		114+30.23 to 114+37.17	LT			21.3			21.3					
		114+39.79 to 114+63.73	LT			26.7			26.7					
		114+63.73 to 115+67.49	LT			103.8			103.8					
		116+09.12 to 118+59.98	LT			250.9			250.9					
		118+59.98 to 118+73.93	LT			14.4			14.4					
		118+82.16 to 118+92.51	LT			20.3			20.3					
		118+92.50 to 119+02.21	LT			40.4			40.4					
		119+16.02 to 119+20.63	LT			19.2			19.2					
		119+16.02 to 119+26.23	LT			36.3			36.3					
		119+34.58 to 119+48.54	LT			14.4			14.4					

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		SQ-14

**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P		
		TYPE					LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	119+48.54 to 120+39.44	LT		LF	90.9			90.9				
		120+02.62 to 120+49.80	RT			87.5			87.5				
		120+88.56 to 120+96.46	RT			33.1			33.1				
		120+95.44 to 122+19.29	LT			123.8			123.8				
		120+96.46 to 121+09.93	RT			27.3			27.3				
		121+26.68 to 121+43.56	RT			17.2			17.2				
		121+43.24 to 123+49.67	RT			206.4			206.4				
		122+53.29 to 123+36.72	LT			83.4			83.4				
		123+36.72 to 124+93.57	LT			156.8			156.8				
		123+49.67 to 123+52.49	RT			2.8			2.8				
		123+96.45 to 124+31.92	RT			35.5			35.5				
		124+70.71 to 124+93.23	RT			22.5			22.5				
		124+93.23 to 125+43.10	RT			50.0			50.0				
		124+93.57 to 125+03.92	LT			10.4			10.4				
		125+38.80 to 125+43.38	LT			4.6			4.6				
		126+51.42 to 126+98.30	RT			46.9			46.9				
		126+51.47 to 127+77.41	LT			126.2			126.2				
		126+98.29 to 127+04.31	RT			6.0			6.0				
		127+04.31 to 127+28.32	RT			24.0			24.0				
		127+28.32 to 127+32.77	RT			4.5			4.5				
		127+89.86 to 129+47.58	RT			157.5			157.5				
		128+15.33 to 129+47.39	LT			132.4			132.4				
		129+47.39 to 132+49.26	LT			302.5			302.5				
		129+47.58 to 132+45.05	RT			296.8			296.8				
		132+45.05 to 136+66.97	RT			424.6			424.6				
		132+49.26 to 132+82.13	LT			32.7			32.7				
		132+82.08 to 132+97.71	LT			15.9			15.9				
		133+08.42 to 133+29.23	LT			37.8			37.8				
		133+29.23 to 133+38.16	LT			42.9			42.9				
		133+68.29 to 133+72.38	LT			18.8			18.8				
		133+68.29 to 133+78.98	LT			35.6			35.6				
		133+87.46 to 134+01.61	LT			14.5			14.5				
		134+01.61 to 134+21.93	LT			20.1			20.1				
		134+21.93 to 135+71.80	LT			148.5			148.5				
		135+71.80 to 136+25.21	LT			54.1			54.1				
		136+25.21 to 138+29.92	LT			203.4			203.4				
		136+66.97 to 136+79.67	RT			13.3			13.3				
		136+88.08 to 136+91.21	RT			35.7			35.7				
		137+05.26 to 137+45.44	RT			61.2			61.2				
		137+47.70 to 137+50.08	RT			3.6			3.6				
		137+50.08 to 137+74.54	RT			27.8			27.8				
		137+74.54 to 137+91.07	RT			16.6			16.6				
		137+91.07 to 138+37.27	RT			46.4			46.4				
		138+29.92 to 138+37.27	LT			7.4			7.4				
		138+29.92 to 138+37.27	LT			7.4			7.4				
		138+37.27 to 141+55.23	LT			321.2			321.2				
		138+37.27 to 141+55.23	LT			321.2			321.2				
		138+37.27 to 144+72.67	RT			629.0			629.0				
		138+61.59 to 138+67.65	RT			6.0			6.0				
		138+67.65 to 138+85.83	RT			18.0			18.0				

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		SQ-15
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		



**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 TYPE	LENGTH	NET LENGTH P	F	P		
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	138+85.83 to 138+91.90	RT		LF	6.0			6.0				
		140+42.76 to 140+48.82	RT			6.0			6.0				
		140+48.82 to 140+67.01	RT			18.0			18.0				
		140+67.01 to 140+73.08	RT			6.0			6.0				
		141+55.23 to 141+68.95	LT			14.3			14.3				
		141+77.04 to 141+86.82	LT			19.2			19.2				
		142+23.93 to 142+34.34	LT			34.0			34.0				
		142+42.43 to 142+56.15	LT			14.3			14.3				
		142+56.15 to 143+85.66	LT			130.8			130.8				
		143+85.66 to 144+01.85	LT			17.1			17.1				
		144+07.77 to 144+14.76	LT			11.8			11.8				
		144+49.75 to 144+57.52	LT			13.0			13.0				
		144+62.98 to 144+79.36	LT			17.2			17.2				
		144+72.67 to 145+99.35	RT			126.7			126.7				
		144+77.88 to 145+99.24	LT			121.4			121.4				
		145+99.28 to 146+15.80	LT			17.3			17.3				
		145+99.35 to 146+21.38	RT			24.0			24.0				
		146+21.76 to 146+29.90	LT			14.0			14.0				
		146+26.11 to 146+32.73	RT			24.6			24.6				
		146+53.41 to 146+53.93	RT			6.9			6.9				
		146+53.90 to 146+60.77	RT			19.4			19.4				
		146+65.55 to 146+87.81	RT			24.1			24.1				
		146+75.55 to 146+83.44	LT			13.4			13.4				
		146+87.81 to 148+33.32	RT			144.7			144.7				
		146+91.68 to 147+05.52	LT			14.4			14.4				
		147+05.52 to 147+35.28	LT			29.9			29.9				
		147+35.28 to 147+36.77	LT			2.4			2.4				
		147+35.28 to 147+37.26	LT			3.1			3.1				
		147+36.77 to 147+37.26	LT			0.5			0.5				
		147+41.74 to 147+42.23	LT			0.5			0.5				
		147+41.74 to 147+43.77	LT			3.2			3.2				
		147+42.23 to 147+43.76	LT			2.4			2.4				
		147+43.77 to 147+59.37	LT			16.1			16.1				
		147+69.40 to 147+90.26	LT			43.9			43.9				
		147+90.26 to 147+90.76	LT			7.6			7.6				
		148+18.88 to 148+39.66	LT			49.9			49.9				
		148+33.32 to 148+34.83	RT			2.4			2.4				
		148+33.32 to 148+35.33	RT			3.1			3.1				
		148+34.83 to 148+35.33	RT			0.5			0.5				
		148+39.78 to 148+40.28	RT			0.5			0.5				
		148+39.78 to 148+41.79	RT			3.1			3.1				
		148+40.28 to 148+41.79	RT			2.4			2.4				
		148+41.79 to 149+08.80	RT			66.6			66.6				
		148+49.79 to 148+66.47	LT			17.1			17.1				
		148+66.47 to 149+08.69	LT			42.5			42.5				
		149+08.69 to 149+10.18	LT			2.4			2.4				
		149+08.69 to 149+10.68	LT			3.1			3.1				
		149+08.80 to 149+10.30	RT			2.4			2.4				
		149+08.80 to 149+10.81	RT			3.1			3.1				
		149+10.18 to 149+10.68	LT			0.5			0.5				

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<p align="center"><b>REVISIONS</b></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><b>PRELIMINARY NOT FOR CONSTRUCTION</b></td> <td></td> <td></td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION		<b>PRELIMINARY NOT FOR CONSTRUCTION</b>			<p>JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN &amp; THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917</p>	<p align="center"><b>SEMINOLE COUNTY PUBLIC WORKS</b></p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>SEMINOLE COUNTY CIP</th> </tr> </thead> <tbody> <tr> <td>CR 431</td> <td>SEMINOLE</td> <td>01785303</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	<p align="center"><b>SUMMARY OF QUANTITIES</b></p>	<p align="center">SHEET NO. SQ-16</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																		
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>																				
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																			
CR 431	SEMINOLE	01785303																			

**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P		
		TYPE					LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	149+10.30 to 149+10.81	RT		LF	0.5			0.5				
		149+15.15 to 149+15.65	LT			0.5			0.5				
		149+15.15 to 149+17.14	LT			3.1			3.1				
		149+15.25 to 149+15.76	RT			0.5			0.5				
		149+15.25 to 149+17.27	RT			3.1			3.1				
		149+15.65 to 149+17.14	LT			2.4			2.4				
		149+15.76 to 149+17.27	RT			2.4			2.4				
		149+17.14 to 149+83.22	LT			66.5			66.5				
		149+17.27 to 149+84.25	RT			66.6			66.6				
		149+83.22 to 149+84.71	LT			2.3			2.3				
		149+83.22 to 149+85.21	LT			3.1			3.1				
		149+84.25 to 149+85.76	RT			2.4			2.4				
		149+84.25 to 149+86.26	RT			3.1			3.1				
		149+84.71 to 149+85.21	LT			0.5			0.5				
		149+85.76 to 149+86.26	RT			0.5			0.5				
		149+89.60 to 149+90.09	LT			0.5			0.5				
		149+89.60 to 149+91.58	LT			3.1			3.1				
		149+90.09 to 149+91.58	LT			2.4			2.4				
		149+90.71 to 149+91.21	RT			0.5			0.5				
		149+90.71 to 149+92.72	RT			3.1			3.1				
		149+91.21 to 149+92.72	RT			2.4			2.4				
		149+91.58 to 151+73.24	LT			182.7			182.7				
		149+92.72 to 151+71.48	RT			177.7			177.7				
		151+71.48 to 151+88.57	RT			17.3			17.3				
		151+73.24 to 152+07.07	LT			37.9			37.9				
		152+05.57 to 152+20.90	RT			39.9			39.9				
		152+11.86 to 152+20.81	LT			33.4			33.4				
		152+20.65 to 152+20.82	LT			2.5			2.5				
		152+48.00 to 152+59.59	RT			34.0			34.0				
		152+48.06 to 152+68.56	LT			43.3			43.3				
		152+72.07 to 152+97.32	RT			26.3			26.3				
		152+78.84 to 152+95.48	LT			17.1			17.1				
		152+95.48 to 153+07.75	LT			12.4			12.4				
		152+97.30 to 153+07.75	RT			10.4			10.4				
		153+07.75 to 153+90.54	LT			82.8			82.8				
		153+07.75 to 157+41.54	RT			433.8			433.8				
		153+90.54 to 154+40.57	LT			51.2			51.2				
		154+40.57 to 157+39.72	LT			299.1			299.1				
		157+39.72 to 157+70.71	LT			33.6			33.6				
		157+41.62 to 157+58.20	RT			16.9			16.9				
		157+75.18 to 157+89.90	RT			35.4			35.4				
		157+76.43 to 157+88.20	LT			32.7			32.7				
		157+88.18 to 157+88.80	LT			15.9			15.9				
		157+89.90 to 157+90.67	RT			10.1			10.1				
		158+09.88 to 158+10.49	RT			9.1			9.1				
		158+09.89 to 158+18.14	RT			13.0			13.0				
		158+17.00 to 158+38.45	LT			49.4			49.4				
		158+18.14 to 158+18.74	RT			9.0			9.0				
		158+36.73 to 158+51.48	RT			42.4			42.4				
		158+48.55 to 158+65.50	LT			17.3			17.3				

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		SQ-17
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		

**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
		TYPE					LENGTH	P	F					
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	158+65.45 to 159+43.18	LT		LF	77.7			77.7					
		158+68.20 to 158+85.13	RT			17.3			17.3					
		158+85.12 to 159+43.18	RT				58.1			58.1				
		159+43.18 to 159+65.60	LT				20.9			20.9				
		159+43.18 to 160+68.76	RT				131.4			131.4				
		159+65.60 to 160+15.67	LT				48.5			48.5				
		160+15.67 to 161+98.96	LT				174.8			174.8				
		161+07.09 to 161+98.96	RT				96.1			96.1				
		161+98.96 to 163+52.18	RT				153.2			153.2				
		161+98.96 to 163+52.18	LT				153.2			153.2				
		163+52.18 to 167+75.36	RT				397.1			397.1				
		163+52.18 to 167+75.36	LT				449.3			449.3				
		167+75.36 to 169+39.44	RT				164.1			164.1				
		167+75.36 to 169+80.76	LT				205.4			205.4				
		169+39.30 to 169+80.55	RT				41.3			41.3				
		169+79.43 to 169+79.90	LT/RT				28.1			28.1				
		169+80.76 to 174+93.01	LT				511.6			511.6				
		170+42.11 to 171+12.60	LT				69.8			69.8				
		174+93.01 to 175+32.86	LT				40.4			40.4				
0520 70	Concrete Traffic Separator, Special - Variable Width	11+06.31 to 12+23.31	RT	21444	SY	39.8			39.8	1030				
		13+43.31 to 14+05.65	RT	21449		21.5			21.5					
		15+25.69 to 16+69.40	RT	21456		48.3			48.3					
		22+41.76 to 23+86.76	LT	17694		48.7			48.7					
		28+58.06 to 30+03.17	RT	17699		48.7			48.7					
		39+00.19 to 40+26.94	LT	58753		42.8			42.8					
		41+12.88 to 42+38.74	RT	58758		42.3			42.3					
		49+93.16 to 51+38.16	LT	17710		48.7			48.7					
		52+57.73 to 54+02.73	RT	58765		48.7			48.7					
		70+67.80 to 72+12.80	LT	17715		48.7			48.7					
		73+37.55 to 74+82.55	RT	17720		48.7			48.7					
		77+34.99 to 78+79.99	LT	58770		49.8			49.8					
		85+90.31 to 87+35.31	LT	58775		48.7			48.7					
		88+23.83 to 89+63.83	RT	58780		47.1			47.1					
		98+83.65 to 100+28.65	LT	17735		48.7			48.7					
		101+31.27 to 102+82.97	RT	58785		50.9			50.9					
		103+82.24 to 105+30.16	LT	18342		49.6			49.6					
		106+35.20 to 107+86.58	RT	18347		50.8			50.8					
		109+25.43 to 110+70.43	RT	58827		48.7			48.7					
		112+17.32 to 113+62.32	LT	17753		48.7			48.7					
117+07.82 to 118+52.82	LT	17758		48.7			48.7							
121+21.71 to 122+96.72	RT	17763		51.5			51.5							

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**SUMMARY OF QUANTITIES**

SHEET NO.  
SQ-18

**SUMMARY OF SIDEWALK & DETECTABLE WARNINGS**

LOCATION  STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2			
					SY		SY			
P	F	P	F							
10+84.40 to 10+98.03	RT	13173			9.2					
11+13.15 to 12+60.01	LT	13166			81.2					
12+84.00 to 17+87.29	LT	13479			280.9					
17+87.29 to 19+05.89	LT	13490			64.2					
19+05.89 to 21+78.70	LT	13495			151.1					
21+94.69 to 24+06.65	LT	13504			117.3					
24+87.08 to 27+96.43	LT	16148			171.4					
28+12.53 to 28+85.91	LT	13511			39.9					
29+01.90 to 30+46.24	LT	13520			80.3					
30+63.82 to 31+86.79	LT	13531			69.1					
32+08.27 to 35+39.49	LT	13540			187.4					
35+51.13 to 38+61.89	LT	13549			175.8					
38+73.53 to 40+58.02	LT	13558			104.0					
40+73.67 to 43+65.55	LT	13568			161.3					
43+77.54 to 44+49.36	LT	13577			32.4					
44+49.36 to 46+84.04	LT	13584			130.4					
46+99.03 to 49+71.57	LT	13592			150.6					
49+83.56 to 51+60.06	LT	13601			99.1					
52+43.82 to 54+46.56	LT	13612			112.6					
54+46.56 to 57+83.99	LT	13619			187.0					
57+99.98 to 61+99.81	LT	13626			224.7					
62+11.60 to 63+91.91	LT	13637			101.0					
64+09.59 to 65+92.69	LT	13647			103.0					
66+62.81 to 72+34.53	LT	13656			319.6					
73+13.38 to 74+96.48	LT	13664			101.5					
74+96.41 to 77+96.06	LT	13671			166.4					
77+96.06 to 78+80.23	LT	16156			46.9					
79+66.20 to 85+76.43	LT	13676			338.6					
85+94.43 to 87+30.11	LT	13683			75.0					
88+27.74 to 88+65.11	LT	13690			20.4					
88+77.11 to 89+28.69	LT	13697			27.8					
89+38.69 to 92+13.06	LT	13706			151.6					
92+29.05 to 95+60.85	LT	13715			183.5					
95+76.85 to 96+14.49	LT	13724			20.1					
96+30.49 to 97+23.75	LT	13734			51.0					
97+45.75 to 98+86.71	LT	13744			77.5					
99+02.70 to 100+19.51	LT	13754			64.5					
101+55.95 to 101+96.06	LT	16164			22.3					
101+96.06 to 102+51.72	LT	13762			31.0					
102+61.72 to 103+14.68	LT	13771			28.6					
103+24.68 to 103+84.31	LT	13780			32.3					
103+94.31 to 105+43.78	LT	16170			82.6					
106+16.03 to 111+07.41	LT	13789			271.4					
111+17.41 to 113+45.29	LT	16178			126.3					
114+60.03 to 115+64.14	LT	16187			57.4					
116+06.14 to 118+64.25	LT	13798			143.1					
119+37.50 to 120+45.95	LT	13806			59.8					
SUB-TOTAL:					5333.1					
TOTAL:					7945		3766			

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**SUMMARY OF QUANTITIES**

SHEET NO.  
SQ-19

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**SUMMARY OF SIDEWALK & DETECTABLE WARNINGS**

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2			
					SY		SY			
P	F	P	F							
120+81.95 to 122+25.80	LT	13813			79.2					
122+39.79 to 124+89.87	LT	13822			138.5					
126+97.81 to 127+86.98	LT	13831			49.2					
128+00.82 to 130+57.76	LT	13838			143.6					
130+57.76 to 131+47.22	LT	13851			48.4					
131+47.22 to 132+98.27	LT	13856			83.9					
133+75.26 to 137+32.39	LT	13861			198.0					
137+46.38 to 141+45.35	LT	13868			221.2					
142+59.34 to 144+09.65	LT	13875			83.9					
144+45.25 to 146+01.48	LT	13883			87.3					
146+84.04 to 147+85.40	LT	13891			56.5					
148+20.99 to 151+95.43	LT	13899			210.2					
152+80.39 to 157+61.97	LT	13912			269.5					
158+48.68 to 159+49.64	LT	13925			56.1					
159+49.64 to 160+06.37	LT	13930			29.2					
160+06.32 to 161+52.44	LT	13938			75.0					
161+52.44 to 175+36.16	LT	16195			782.2					
10+65.68 to 11+14.07	LT	28589					60.8			
10+74.46 to 11+07.41	RT	28649					81.6			
12+39.27 to 12+59.03	RT	28590					26.0			
12+50.28 to 12+94.28	LT	28602					82.5			
13+02.00 to 13+13.70	RT	58333					19.0			
14+24.44 to 14+43.65	RT	28595					26.9			
14+89.03 to 15+07.18	RT	28600					24.8			
18+24.97 to 18+58.72	RT	58339					74.4			
19+08.00 to 19+40.28	RT	58348					60.1			
21+68.67 to 22+04.67	LT	28603					42.6			
24+08.47 to 24+21.13	LT	32969					5.1			
24+18.63 to 24+50.00	RT	28604					42.9			
24+72.78 to 24+85.34	LT	32976					5.0			
24+73.98 to 25+01.98	RT	28605					36.6			
27+40.64 to 27+71.29	RT	28658					55.0			
27+86.42 to 28+22.55	LT	28606					42.9			
28+35.56 to 28+67.57	RT	28661					63.6			
28+75.89 to 29+11.89	LT	28607					42.3			
30+35.88 to 30+74.25	LT	28608					59.3			
31+77.02 to 32+18.16	LT	28609					120.9			
35+33.79 to 35+57.78	LT	33080					31.1			
38+51.79 to 38+83.28	LT	28611					34.3			
40+30.97 to 40+49.76	LT	33087					19.7			
40+78.83 to 40+98.60	LT	33097					18.3			
42+06.15 to 42+51.15	RT	28612					92.3			
43+50.90 to 43+82.90	LT	33108					43.8			
46+77.36 to 47+12.36	LT	33123					40.1			
47+82.85 to 48+14.85	LT	33134					33.8			
49+64.90 to 49+96.90	LT	28616					54.3			
51+50.96 to 51+63.58	LT	33141					5.1			
52+30.73 to 52+44.03	LT	33150					5.6			
<b>SUB-TOTAL:</b>					2611.9		1350.7			

<p align="center"><b>REVISIONS</b></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><b>PRELIMINARY NOT FOR CONSTRUCTION</b></td> <td></td> <td></td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION		<b>PRELIMINARY NOT FOR CONSTRUCTION</b>			<p>JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN &amp; THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917</p>	<p align="center"><b>SEMINOLE COUNTY PUBLIC WORKS</b></p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>SEMINOLE COUNTY CIP</th> </tr> </thead> <tbody> <tr> <td>CR 431</td> <td>SEMINOLE</td> <td>01785303</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	<p align="center"><b>SUMMARY OF QUANTITIES</b></p>	<p align="center">SHEET NO. SQ-20</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																		
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>																				
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																			
CR 431	SEMINOLE	01785303																			

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**SUMMARY OF SIDEWALK & DETECTABLE WARNINGS**

LOCATION  STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
					0522	1	0522	2		
					SY		SY			
P	F	P	F							
53+68.57 to 54+04.57	RT	28617						56.3		
57+77.32 to 58+13.32	LT	28618						51.4		
61+93.24 to 62+24.84	LT	28619						36.0		
63+85.32 to 64+22.84	LT	28620						46.3		
65+96.18 to 66+08.64	LT	33157						5.1		
66+49.82 to 66+62.31	LT	33163						5.1		
71+99.85 to 72+32.52	RT	58357						61.7		
72+60.02 to 73+04.02	LT	28621						77.4		
72+96.23 to 73+28.58	RT	58364						70.6		
78+92.98 to 79+15.31	LT	58372						42.3		
79+55.40 to 79+69.20	LT	33183						5.7		
85+68.39 to 86+06.39	LT	28622						67.9		
87+33.45 to 87+47.04	LT	58379						5.7		
88+17.32 to 88+68.45	LT	58385						6.0		
88+58.45 to 88+90.45	LT	28623						39.6		
89+22.03 to 89+52.03	LT	28624						29.8		
89+91.33 to 90+23.33	RT	28625						42.1		
92+06.40 to 92+42.40	LT	28626						45.5		
93+41.31 to 93+75.31	RT	28627						57.0		
95+54.19 to 95+90.19	LT	28628						42.2		
96+07.83 to 96+43.83	LT	28629						42.2		
97+17.14 to 97+59.14	LT	28630						61.2		
98+80.04 to 99+16.04	LT	28631						48.8		
100+22.86 to 100+38.67	LT	33188						16.3		
100+45.39 to 100+62.16	RT	28668						13.9		
101+08.26 to 101+26.17	RT	28671						14.0		
101+23.63 to 101+49.67	LT	58395						24.1		
102+45.06 to 102+75.06	LT	28632						29.5		
103+08.02 to 103+38.02	LT	28633						29.5		
103+77.27 to 104+07.65	LT	28634						31.6		
105+40.10 to 105+67.40	RT	58402						53.9		
105+47.63 to 105+61.03	LT	33202						5.4		
105+99.02 to 106+17.40	RT	33224						14.7		
106+03.87 to 106+18.36	LT	33208						5.9		
108+31.40 to 108+51.11	RT	28672						15.8		
109+13.84 to 109+33.48	RT	28676						15.1		
111+00.90 to 111+30.90	LT	28635						38.2		
113+46.16 to 113+80.05	LT	58412						51.8		
114+31.91 to 114+66.28	LT	58419						54.1		
115+67.13 to 116+09.13	LT	58433						73.0		
120+09.32 to 120+41.15	RT	58438						48.2		
120+39.44 to 120+95.44	LT	28637						83.3		
121+10.68 to 121+32.86	RT	33254						17.0		
122+19.28 to 122+53.28	LT	28638						37.2		
123+52.49 to 123+96.51	RT	28641						83.6		
124+31.94 to 124+70.76	RT	28642						77.5		
125+05.82 to 125+40.84	LT	28639						61.3		
126+98.23 to 127+32.77	RT	28643						71.8		
<b>SUB-TOTAL:</b>								1912.6		

<p align="center"><b>REVISIONS</b></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 align="center"><b>PRELIMINARY NOT FOR CONSTRUCTION</b></td> <td></td> <td></td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION		<b>PRELIMINARY NOT FOR CONSTRUCTION</b>			<p>JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN &amp; THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917</p>	<p align="center"><b>SEMINOLE COUNTY PUBLIC WORKS</b></p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>SEMINOLE COUNTY CIP</th> </tr> </thead> <tbody> <tr> <td>CR 431</td> <td>SEMINOLE</td> <td>01785303</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	CR 431	SEMINOLE	01785303	<p align="center"><b>SUMMARY OF QUANTITIES</b></p>	<p align="center">SHEET NO.  SQ-21</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																		
	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>																				
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP																			
CR 431	SEMINOLE	01785303																			

**SUMMARY OF SIDEWALK & DETECTABLE WARNINGS**

LOCATION  STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	DETECTABLE WARNING		CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
					0527 2		0522 2			
					SF		SY			
					P	F	P	F		
127+49.76 to 127+93.82	RT	28644					82.6			
127+77.36 to 128+15.33	LT	28640					57.5			
132+92.52 to 133+07.40	LT	33259					5.7			
133+79.88 to 133+92.73	LT	33264					5.2			
136+74.48 to 136+90.51	RT	33269					12.0			
137+46.47 to 137+62.69	RT	33274					12.6			
138+61.58 to 138+91.90	RT	28645					31.3			
140+42.75 to 140+73.08	RT	28646					31.2			
141+64.08 to 141+76.45	LT	33286					5.0			
142+34.88 to 142+47.20	LT	33291					5.0			
143+94.38 to 144+06.80	LT	33296					5.1			
144+58.03 to 144+70.39	LT	33301					5.0			
146+06.51 to 146+25.60	RT	33306					15.3			
146+08.23 to 146+20.84	LT	33328					5.1			
146+54.42 to 146+80.53	RT	33323					42.0			
146+84.17 to 146+96.57	LT	33339					5.0			
147+56.54 to 147+68.92	LT	33344					4.5			
148+40.25 to 148+52.61	LT	33349					4.5			
151+73.24 to 152+10.94	LT	58442					21.5			
151+94.93 to 152+07.97	RT	58451					7.5			
152+60.44 to 152+73.16	RT	33429					8.1			
152+69.29 to 152+81.87	LT	33420					4.6			
157+61.83 to 157+74.36	RT	33446					6.6			
158+38.91 to 158+51.32	LT	33440					4.4			
158+52.07 to 158+65.02	RT	33452					6.9			
160+68.76 to 161+07.09	RT	28647					108.1			
10+51.67 to 176+17.50	LT/RT				915.0					
<b>SUB-TOTAL:</b>					915.0		502.3			

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		SQ-22
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		

**SUMMARY OF FENCING**

PAY ITEM NO.	DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.			P	F	P	F		
		0550 10230			FENCING, TYPE B, 6.1-7.0', STANDARD	24+69.60 TO 27+06.26	LT	LF		
		53+48.47 TO 57+94.02	LT	LF	1295.0				POND ND-2	
		92+98.73 TO 95+56.33	LT	LF	976.0				POND OC2-2	
		127+73.02 TO 131+02.39	LT	LF	1084.0				POND LS-2	
		131+66.26 TO 136+16.41	RT	LF	1664.0				POND OC3-1	
		141+64.95 TO 145+93.44	RT	LF	1061.0				POND OC3-2	
		146+70.07 TO 148+25.56	RT	LF	473.0				BOOKERTOWN POND	
		159+12.92 TO 162+57.74	LT	LF	734.0				POND OC4-1	
0550 60233	FENCE GATE, TYPE B, SLIDING/CANTILEVER 12.1-18' OPENING	146+69.55 TO 146+68.43	RT	EA	1		1		BOOKERTOWN POND	
0550 60235	FENCE GATE, TYPE B, SLIDING/CANTILEVER 20.1-24' OPENING	24+84.00 TO 24+84.00	LT	EA	1		7		POND WR-1	
		56+14.13 TO 56+38.13	LT	EA	1				POND ND-2	
		93+92.21 TO 94+16.71	LT	EA	1				POND OC2-2	
		129+61.24 TO 129+82.62	LT	EA	1				POND LS-2	
		134+78.51 TO 134+92.70	RT	EA	1				POND OC3-1	
		142+96.47 TO 143+20.97	RT	EA	1				POND OC3-2	
		159+15.91 TO 159+17.22	LT	EA	1				POND OC4-1	

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			<b>SUMMARY OF QUANTITIES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		SQ-23
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	01785303		



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SUMMARY OF PERFORMANCE TURF								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
STA. TO STA.					SY			
					P	F		
10+87.33 to 12+60.29	LT	36377			145.1			
10+98.67 to 12+55.32	LT	36345			51.2			
11+15.77 to 11+76.21	RT	36340			42.5			
12+84.12 to 21+78.67	LT	55119			622.0			
12+89.25 to 21+75.39	LT	36353			293.5			
13+00.33 to 14+48.33	RT	37189			181.4			
13+10.32 to 14+30.44	RT	55492			47.8			
14+83.55 to 18+41.59	RT	55486			264.8			
15+01.18 to 18+40.49	RT	37208			110.1			
19+23.94 to 24+28.65	RT	55481			385.9			
19+25.99 to 24+47.20	RT	37215			163.3			
21+94.35 to 24+24.91	LT	55128			175.0			
21+97.98 to 24+13.24	LT	36361			68.8			
24+40.63 to 24+83.98	RT	37241			32.6			
24+45.39 to 24+76.64	RT	37239			9.0			
24+68.84 to 27+96.43	LT	36401			203.9			
24+80.58 to 27+91.49	LT	36373			101.0			
24+91.98 to 27+51.35	RT	55475			181.1			
24+96.98 to 27+54.91	RT	37249			83.4			
28+12.40 to 28+85.89	LT	36412			60.7			
28+17.55 to 28+80.91	LT	36414			18.9			
28+50.56 to 40+38.54	RT	37307			381.4			
28+58.28 to 42+16.15	RT	55463			918.8			
29+00.46 to 30+45.69	LT	55136			69.7			
29+06.87 to 30+40.82	LT	36429			42.9			
30+64.43 to 31+86.83	LT	55144			193.6			
30+69.27 to 31+82.04	LT	36449			36.0			
32+08.22 to 35+39.86	LT	55151			362.7			
32+13.12 to 35+36.74	LT	36461			108.0			
35+51.81 to 38+61.62	LT	55158			101.6			
35+54.78 to 38+56.76	LT	36475			100.8			
38+73.46 to 40+36.72	LT	55165			78.4			
38+78.32 to 40+36.67	LT	36485			52.5			
40+91.06 to 43+60.90	LT	55171			136.9			
40+92.02 to 43+55.90	LT	36506			87.0			
41+00.70 to 42+11.15	RT	37299			28.5			
42+41.15 to 53+78.57	RT	55455			392.4			
42+46.15 to 53+73.61	RT	37320			373.8			
43+72.90 to 46+87.36	LT	55178			164.5			
43+77.90 to 46+82.40	LT	36516			99.1			
47+02.28 to 47+92.85	LT	36526			91.1			
47+07.33 to 47+87.88	LT	36531			24.6			
48+04.85 to 49+74.90	LT	36535			162.2			
48+09.80 to 49+69.94	LT	36541			51.1			
49+86.90 to 51+68.80	LT	36554			129.3			
49+91.86 to 51+55.97	LT	36546			52.2			
52+26.32 to 57+87.32	LT	36574			357.2			
SUB-TOTAL:					7838.3			
TOTAL:					27670			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

**SUMMARY OF QUANTITIES**

SHEET NO.  
SQ-24

10/10/2022 4:06:22 PM O:\2017\1710782\_002\_Orange\_Blvd\_(CR\_431)\Orange\_Blvd\_CADD\roadway\SUMORD01.dgn

SUMMARY OF PERFORMANCE TURF								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
STA. TO STA.					SY			
					P	F		
52+39.21 to 57+84.06	LT	36567			178.7			
53+94.56 to 72+13.19	RT	55449			719.7			
53+99.53 to 72+15.36	RT	37331			597.8			
58+03.32 to 62+03.20	LT	55182			327.9			
58+06.58 to 61+98.38	LT	36589			129.7			
62+14.95 to 63+95.18	LT	55188			86.7			
62+19.75 to 63+90.44	LT	36600			55.4			
64+12.86 to 66+18.69	LT	55196			205.3			
64+17.73 to 66+01.10	LT	36613			59.4			
66+40.78 to 72+70.04	LT	55206			536.0			
66+57.34 to 72+65.03	LT	36622			201.1			
72+94.04 to 79+03.00	LT	55213			424.9			
72+99.03 to 75+49.30	LT	36642			74.0			
73+09.62 to 90+01.33	RT	55443			665.4			
73+13.66 to 89+96.36	RT	37371			558.4			
79+50.80 to 85+78.41	LT	55221			621.7			
79+63.20 to 85+73.38	LT	36669			200.3			
85+96.40 to 87+53.57	LT	55227			115.4			
86+01.36 to 87+39.45	LT	36684			43.4			
88+09.65 to 88+68.45	LT	36697			56.1			
88+25.08 to 88+63.49	LT	36691			10.2			
88+58.11 to 100+51.39	RT	37398			224.6			
88+80.45 to 89+32.09	LT	36708			46.6			
88+85.42 to 89+27.07	LT	36709			11.6			
89+42.03 to 91+28.28	LT	55232			150.9			
89+47.00 to 91+17.50	LT	36724			54.4			
90+13.31 to 93+51.31	RT	37383			147.6			
90+18.29 to 93+46.35	RT	37379			107.1			
91+59.32 to 92+16.41	LT	36733			42.3			
91+68.43 to 92+11.43	LT	36740			12.1			
92+32.40 to 95+64.23	LT	36753			296.2			
92+37.37 to 95+59.19	LT	36757			105.0			
93+65.26 to 100+65.33	RT	55436			355.4			
95+80.19 to 96+17.87	LT	36766			23.5			
95+85.19 to 96+12.83	LT	36768			7.0			
96+33.83 to 97+27.14	LT	36780			59.5			
96+38.83 to 97+22.14	LT	36775			25.6			
97+49.14 to 98+90.04	LT	55236			142.8			
97+54.14 to 98+85.04	LT	36793			41.4			
99+06.04 to 100+40.06	LT	36806			79.1			
99+11.04 to 100+28.86	LT	36798			36.3			
101+06.31 to 105+49.17	RT	55428			173.1			
101+20.17 to 105+52.86	RT	37404			141.3			
101+49.03 to 102+50.10	LT	36821			32.6			
101+51.99 to 102+55.06	LT	36812			31.9			
102+65.06 to 103+18.02	LT	55242			26.1			
102+70.03 to 103+13.06	LT	36832			12.1			
103+28.02 to 103+86.65	LT	36847			29.4			
SUB-TOTAL:					8283.0			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	PRELIMINARY NOT FOR CONSTRUCTION		

JASON R. FLICK, P.E.  
P.E. LICENSE NUMBER 74741  
JMT - JOHNSON, MIRMIRAN & THOMPSON  
615 CRESCENT EXECUTIVE COURT, SUITE 106  
LAKE MARY, FL 32746  
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF QUANTITIES	
SQ-25	

SHEET NO.  
SQ-25

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SUMMARY OF PERFORMANCE TURF									
LOCATION		SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
						0570	1 2		
STA. TO STA.						SY			
						P	F		
103+32.99	to 103+82.69	LT	36845			14.2			
103+97.65	to 105+66.49	LT	55248			105.2			
104+02.61	to 105+52.65	LT	36910			47.3			
105+98.02	to 108+52.42	RT	55420			86.3			
105+99.00	to 111+10.90	LT	36919			345.3			
106+11.08	to 108+38.48	RT	37434			88.0			
106+12.32	to 111+05.89	LT	36932			162.2			
109+11.95	to 120+19.44	RT	55411			679.9			
109+27.21	to 120+19.38	RT	37452			360.8			
111+20.90	to 113+71.25	LT	36941			262.1			
111+25.87	to 113+58.33	LT	36952			75.8			
114+50.30	to 115+77.13	LT	55258			52.4			
114+56.04	to 115+72.49	LT	36961			37.3			
115+99.06	to 118+86.72	LT	36972			145.6			
116+04.13	to 118+73.72	LT	36980			87.3			
119+22.80	to 120+49.44	LT	36993			73.6			
119+34.79	to 120+44.48	LT	36989			34.0			
120+85.44	to 122+29.29	LT	55265			30.1			
120+90.41	to 122+24.33	LT	37006			42.4			
121+00.51	to 123+63.12	RT	55404			140.1			
121+26.86	to 123+57.66	RT	37467			75.3			
122+43.28	to 125+17.18	LT	37012			135.2			
122+48.25	to 124+93.57	LT	37019			80.6			
123+86.99	to 124+42.70	RT	37477			30.1			
123+91.57	to 124+37.09	RT	37484			12.9			
124+61.13	to 125+43.17	RT	37478			91.3			
124+64.81	to 125+43.13	RT	37491			37.1			
126+51.39	to 136+79.45	RT	37498			306.3			
127+16.65	to 127+82.29	LT	37030			20.6			
127+83.35	to 136+93.67	RT	55396			363.5			
128+04.53	to 133+09.78	LT	55271			209.5			
133+79.20	to 141+82.87	LT	55282			361.3			
133+87.67	to 141+68.74	LT	37073			257.8			
137+34.51	to 138+71.68	RT	55388			71.3			
137+57.31	to 138+66.61	RT	37560			43.0			
138+81.83	to 140+52.85	RT	55380			72.8			
138+86.86	to 140+47.74	RT	37572			50.7			
140+62.99	to 146+29.84	RT	55371			415.4			
140+68.11	to 146+13.10	RT	37584			178.2			
142+28.65	to 144+12.42	LT	37084			143.6			
142+42.64	to 143+99.15	LT	37092			49.8			
144+51.88	to 146+26.92	LT	55294			143.1			
144+65.74	to 146+12.99	LT	37098			46.1			
146+69.16	to 152+10.38	RT	55361			347.9			
146+73.92	to 151+88.39	RT	37602			165.8			
146+78.12	to 147+76.49	LT	55308			67.2			
146+91.91	to 147+59.20	LT	37105			19.4			
148+33.71	to 152+00.41	LT	55313			280.4			
SUB-TOTAL:						6946.1			

REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP	
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303	SQ-26	

**SUMMARY OF QUANTITIES**

SUMMARY OF PERFORMANCE TURF									
LOCATION		SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
						0570	1 2		
STA. TO STA.						SY			
						P	F		
148+49.96	to 152+06.72	LT	37121			118.2			
152+58.07	to 157+80.10	RT	55353			285.0			
152+65.82	to 157+80.45	LT	37133			425.8			
152+72.34	to 157+58.03	RT	37610			178.3			
152+79.02	to 157+70.39	LT	37143			162.3			
158+30.71	to 171+00.00	LT	55320			1045.7			
158+46.24	to 160+78.34	RT	55342			183.3			
158+48.71	to 171+12.65	LT	37170			416.7			
158+68.37	to 160+73.62	RT	37710			67.7			
160+97.51	to 171+00.00	RT	55333			508.2			
161+02.23	to 170+42.77	RT	37718			283.2			
162+67.69	to 166+13.80	LT	57271			752.7			
171+00.00	to 175+32.72	LT	57268			175.2			
SUB-TOTAL:						4602.3			

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REVISIONS				JASON R. FLICK, P.E. P.E. LICENSE NUMBER 74741 JMT - JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			SUMMARY OF QUANTITIES	SHEET NO.  SQ-27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
	PRELIMINARY NOT FOR CONSTRUCTION			CR 431	SEMINOLE	01785303			

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
MATERIALS AND RESEARCH

DATE OF SURVEY: OCTOBER 2018  
AUGUST, SEPTEMBER, OCTOBER, NOVEMBER 2019

SURVEY MADE BY: TERRACON CONSULTANTS, INC.

SUBMITTED BY: ELIAS N. JAMMAL, P.E.  
JAY W. CASPER, P.E.

FINANCIAL PROJECT No. -

DISTRICT: -

ROAD NO.: CR 431

COUNTY: SEMINOLE

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STATION: 11+00 SURVEY ENDS STATION: 171+00

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS					ATTERBERG LIMITS (%)			MATERIAL 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	CHLORIDES ppm	SULFATES ppm	pH
1	1	3	23	1-30	22	75-100	68-100	59-92	16-38	1-10	-	-	-	A-3	LIGHT GRAY TO DARK BROWN FINE SAND TO FINE SAND WITH SILT, WITH OCCASIONAL ROCK OR GRAVEL FRAGMENTS	-	-	-	-	-
2	-	-	11	6-28	11	97-100	91-100	76-96	18-69	11-20	2	NP	NP	A-2-4	LIGHT ORANGE-BROWN TO DARK BROWN SILTY FINE SAND	-	-	-	-	-
3	-	-	11	16-35	11	92-100	82-100	77-96	28-73	20-40	10	NP-40	NP-20	A-2-4 A-2-6 A-4	GRAY TO DARK BROWN SILTY FINE SAND TO CLAYEY FINE SAND AND SANDY SILT	-	-	-	-	-
4	-	-	3	20-32	3	100	98-99	89-90	15-22	11-14	-	-	-	A-2-4	DARK REDDISH-BROWN SILTY FINE SAND, WITH CEMENTATION (HARDPAN)	-	-	-	-	-
5	4	7-11	4	38-71	3	97-100	89-97	37-88	19-31	11-15	-	-	-	A-8	DARK BROWN SANDY MUCK/PEAT	-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE - MAKE FINAL CHECK AFTER GRADING

▼ = GROUNDWATER LEVEL ENCOUNTERED

GNE = GROUNDWATER LEVEL NOT ENCOUNTERED TO DEPTH OF BORING

▽ = ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL

- NOTES:
- 1) SOIL BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY.
  - 2) SOIL ANALYSIS INCLUDES DATA FROM ROADWAY AND POND AREAS ONLY.
  - 3) THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
  - 4) THE SYMBOL "NP" REPRESENTS NON-PLASTIC.
  - 5) THE MATERIAL FROM STRATUM NUMBER 1 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-001.
  - 6) THE MATERIAL FROM STRATUM NUMBER 2 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.

- 7) THE MATERIAL FROM STRATUM NUMBER 3 SHOULD BE CLASSIFIED AS A PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-002. IT MAY BE PLACED ABOVE THE EXISTING WATER LEVEL (AT THE TIME OF CONSTRUCTION) TO WITHIN 4 FEET OF THE PROPOSED BASE. IT SHOULD BE PLACED UNIFORMLY IN THE LOWER PORTION OF THE EMBANKMENT FOR SOME DISTANCE ALONG THE PROJECT RATHER THAN FULL DEPTH FOR SHORTER DISTANCES.
- 8) THE MATERIAL FROM STRATUM NUMBER 4 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-001. HOWEVER, THIS MATERIAL WILL BE DIFFICULT TO EXCAVATE OR PENETRATE. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER THIS HARD MATERIAL IN ALL EXCAVATIONS AND SHALL USE SPECIALIZED EQUIPMENT AND/OR PROCEDURES AS NECESSARY TO FACILITATE EXCAVATION/PENETRATION. ALSO, SEE NOTE 5.
- 9) THE MATERIAL FROM STRATUM NUMBER 5 SHALL BE CLASSIFIED AS MUCK/PEAT AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-002, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

REVISIONS				ELIAS N. JAMMAL, P.E. P.E. LICENSE NUMBER 60126 TERRACON 1675 LEE ROAD WINTER PARK, FLORIDA 32789 CERTIFICATE OF AUTHORIZATION No. 8830	SEMINOLE COUNTY PUBLIC WORKS			ROADWAY SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
	PRELIMINARY NOT FOR CONSTRUCTION				CR 431	SEMINOLE	017853-0-3		GR-1