

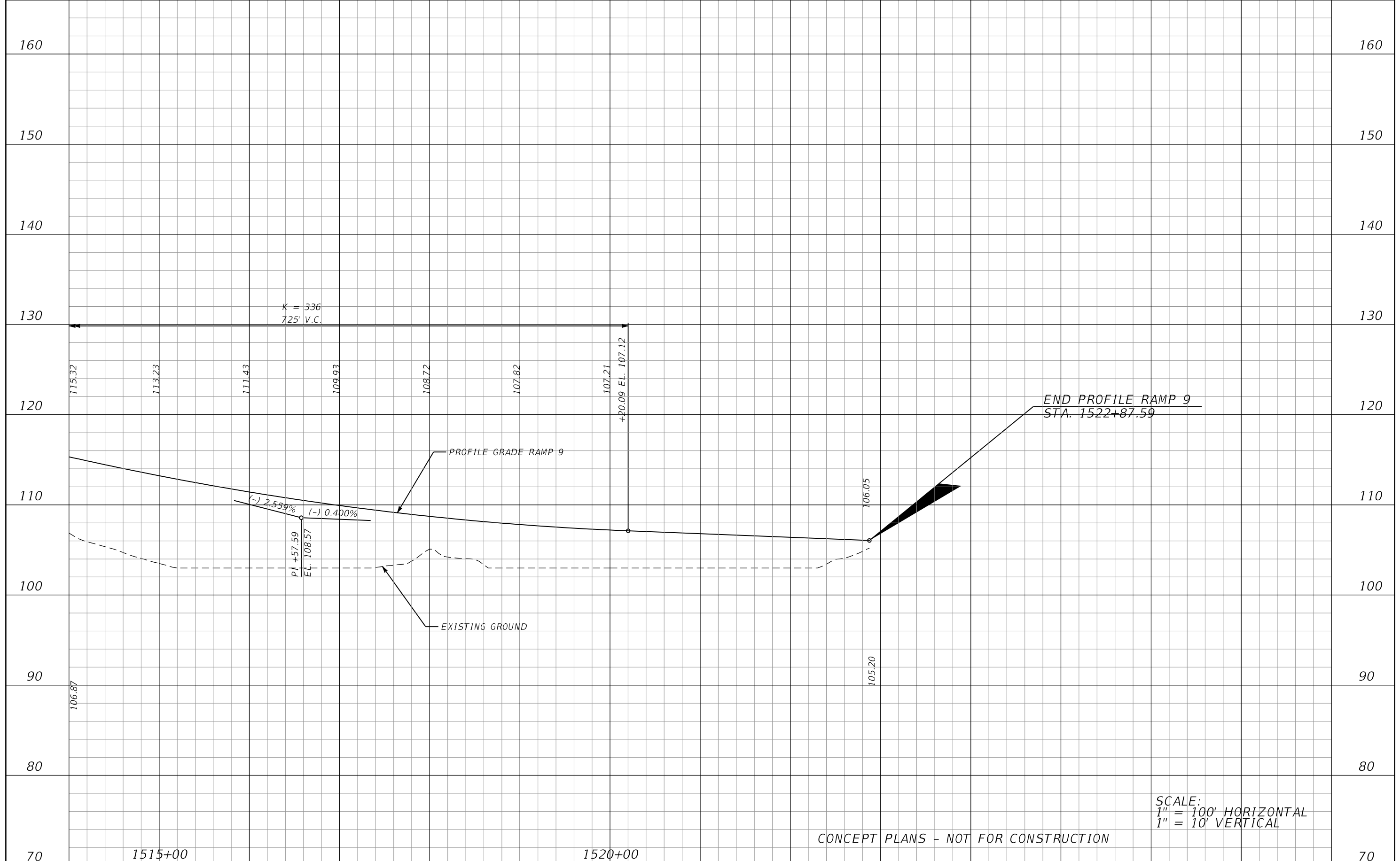
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMISON R. EDWARDS, P.E.
P.E. LICENSE NUMBER 76095
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746
CERTIFICATE OF AUTHORIZATION: 2294

CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 9

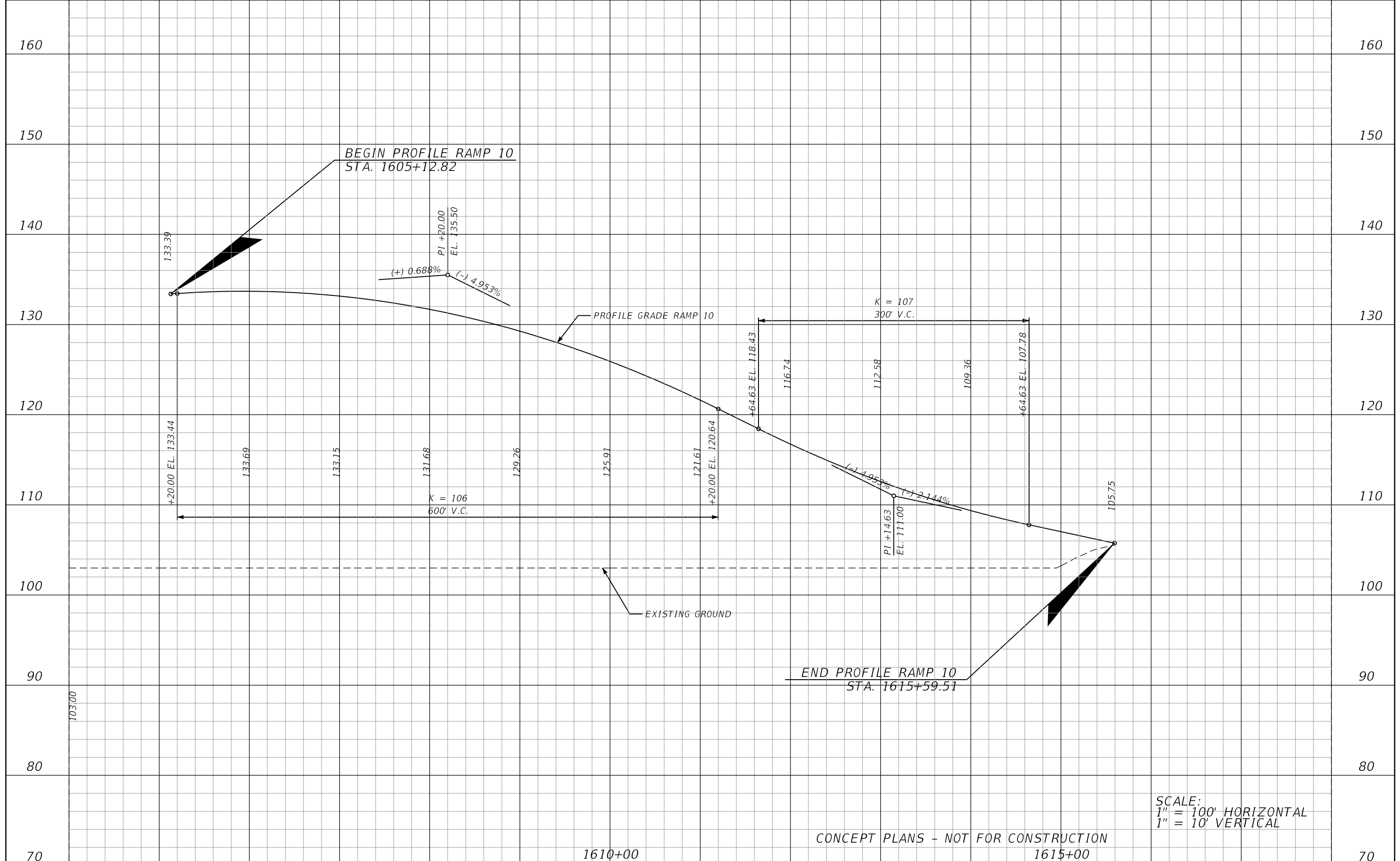
SHEET NO.
92



SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION

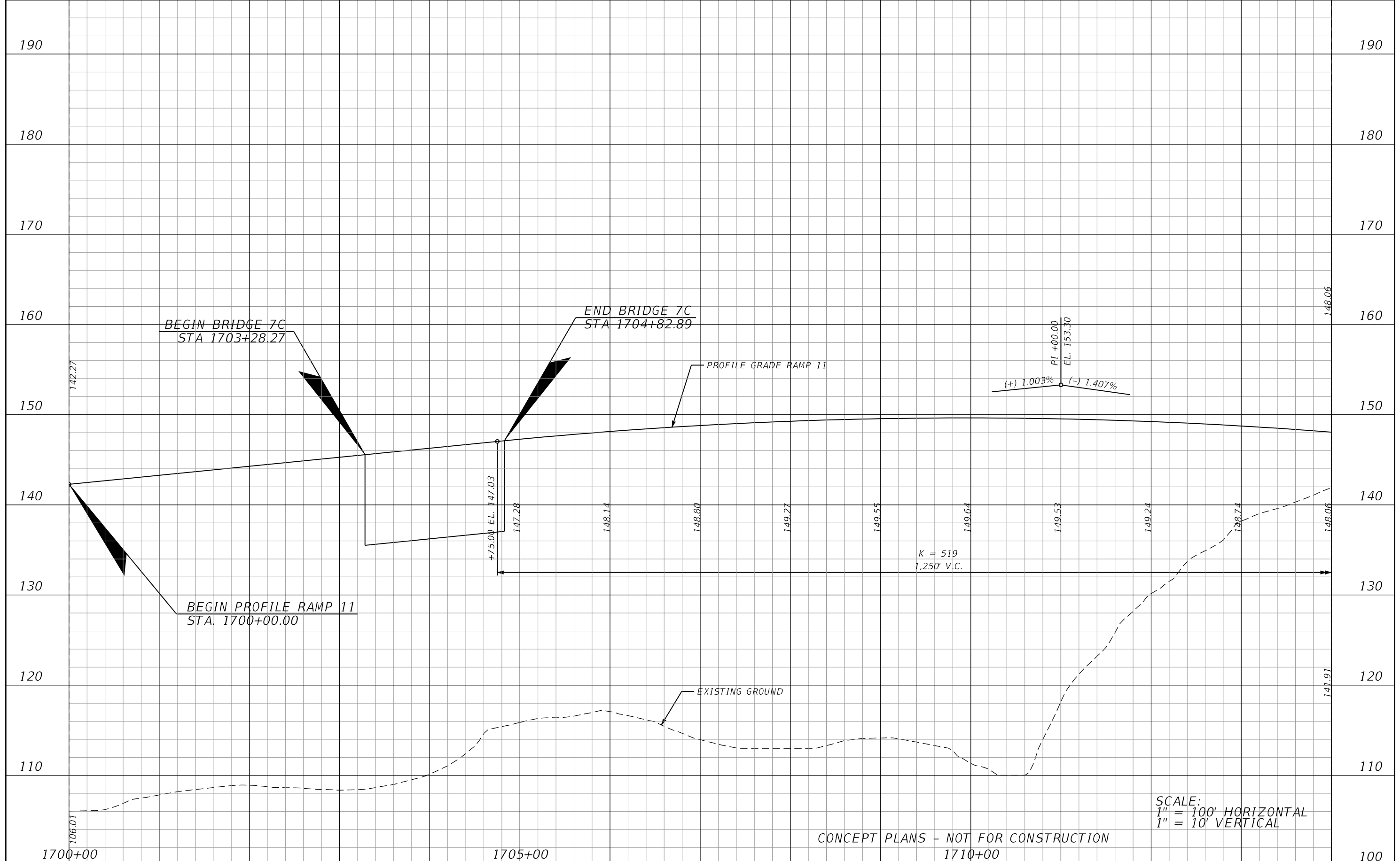
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REVISIONS														
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ROAD NO.	COUNTY	CFX PROJECT NUMBER												
LOCC	LAKE ORANGE	599225												



SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION
 1610+00 1615+00

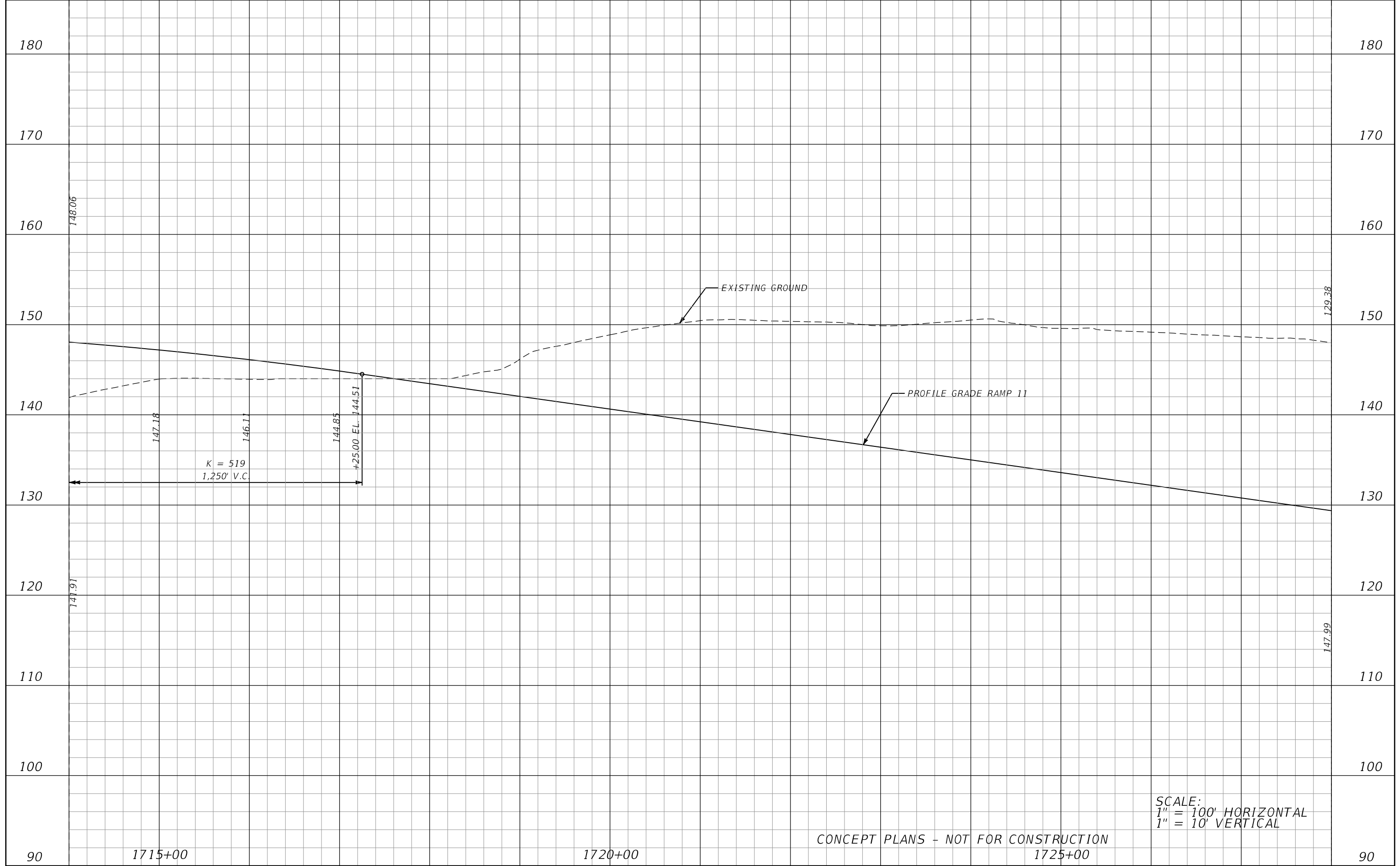
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS		DATE	DESCRIPTION			JAMISON R. EDWARDS, P.E. P.E. LICENSE NUMBER 76095 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746 CERTIFICATE OF AUTHORIZATION: 2294	CENTRAL FLORIDA EXPRESSWAY AUTHORITY			ROADWAY PROFILE RAMP 10	SHEET NO. 94
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DATE	DESCRIPTION														
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ROAD NO.	COUNTY	CFX PROJECT NUMBER													
LOCC	LAKE ORANGE	599225													



SCALE:
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CONCEPT PLANS - NOT FOR CONSTRUCTION

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REVISIONS																							
DATE	DESCRIPTION	DATE	DESCRIPTION																				
ROAD NO.		COUNTY	CFX PROJECT NUMBER																				
LOCC		LAKE ORANGE	599225																				



SCALE:
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CONCEPT PLANS - NOT FOR CONSTRUCTION

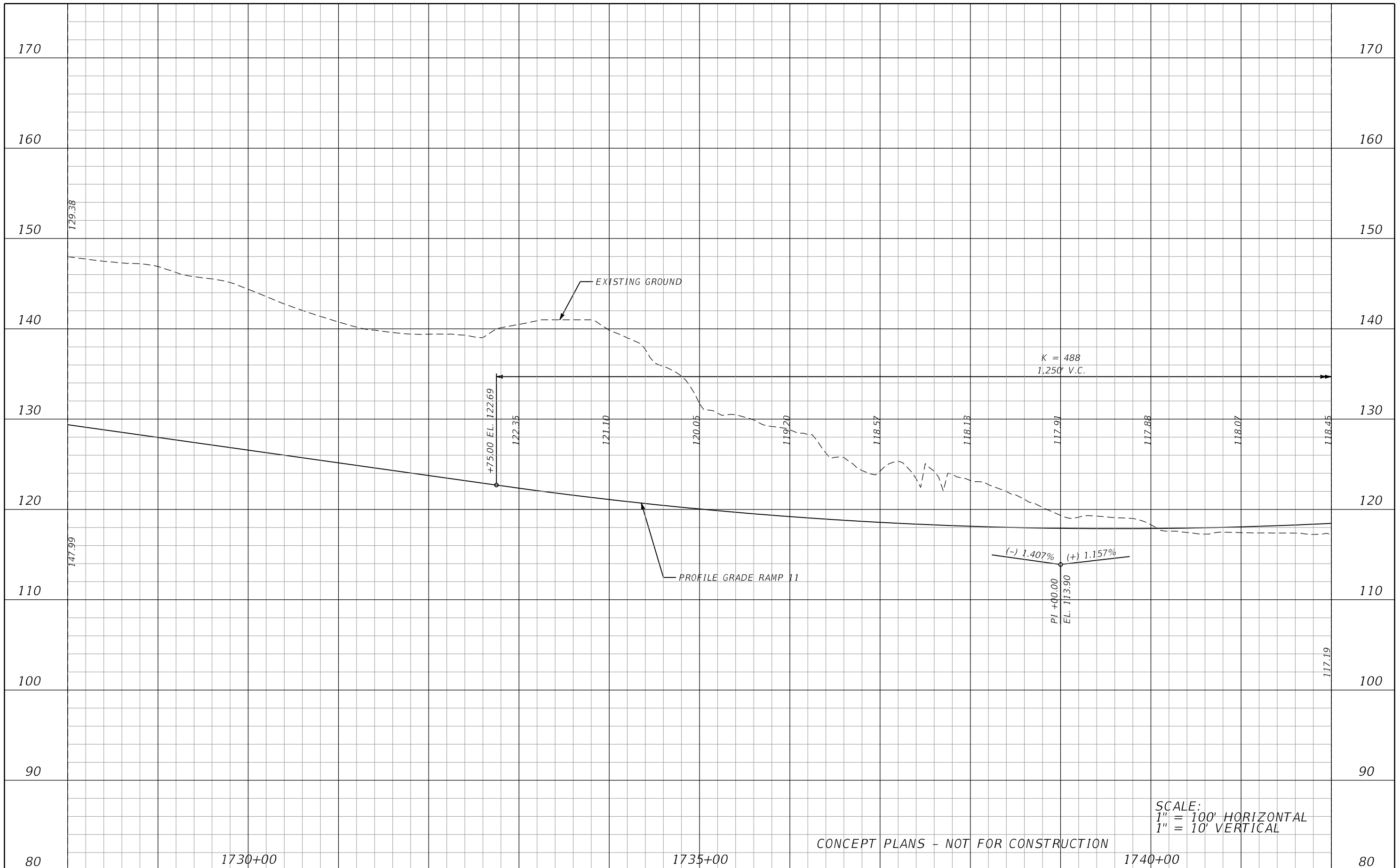
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DATE	DESCRIPTION	DATE	DESCRIPTION

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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 11

SHEET NO.
 96



CONCEPT PLANS - NOT FOR CONSTRUCTION

SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

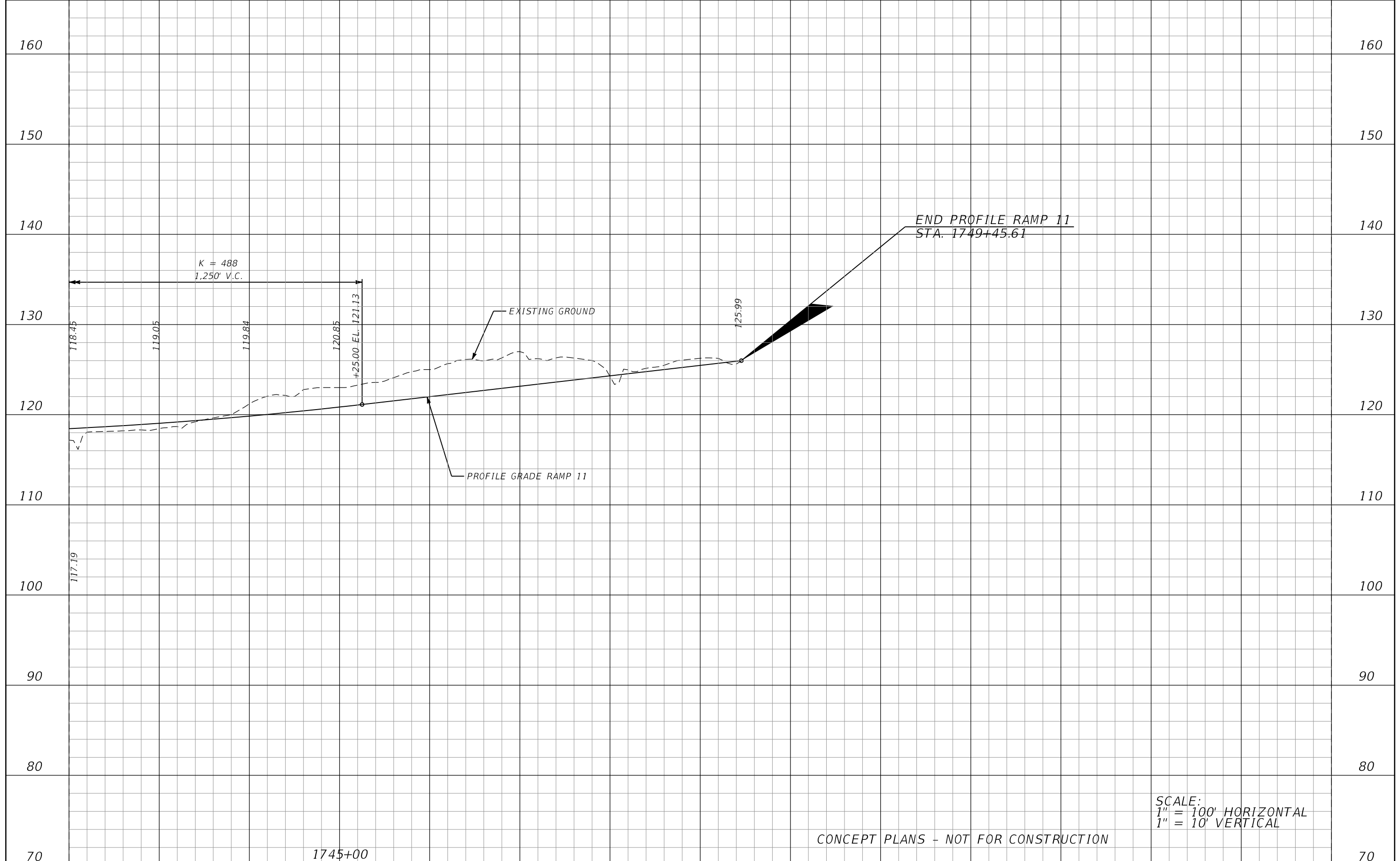
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DATE	DESCRIPTION	DATE	DESCRIPTION

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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 11

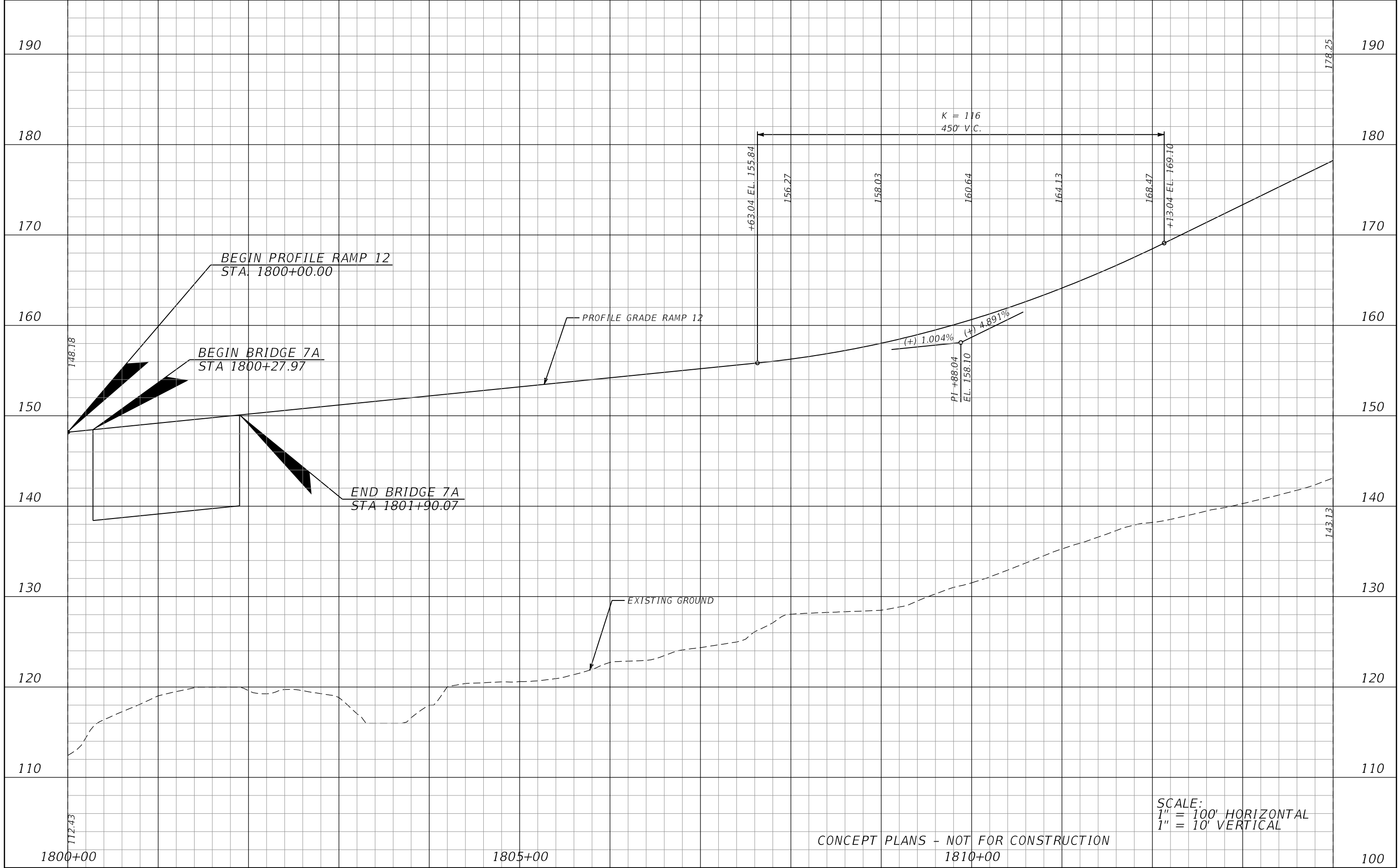
SHEET NO.
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SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION

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REVISIONS														
DATE	DESCRIPTION													
<table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>CFX PROJECT NUMBER</th> </tr> </thead> <tbody> <tr> <td>LOCC</td> <td>LAKE ORANGE</td> <td>599225</td> </tr> </tbody> </table>		ROAD NO.	COUNTY	CFX PROJECT NUMBER	LOCC	LAKE ORANGE	599225							
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LOCC	LAKE ORANGE	599225												



SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION
 1810+00

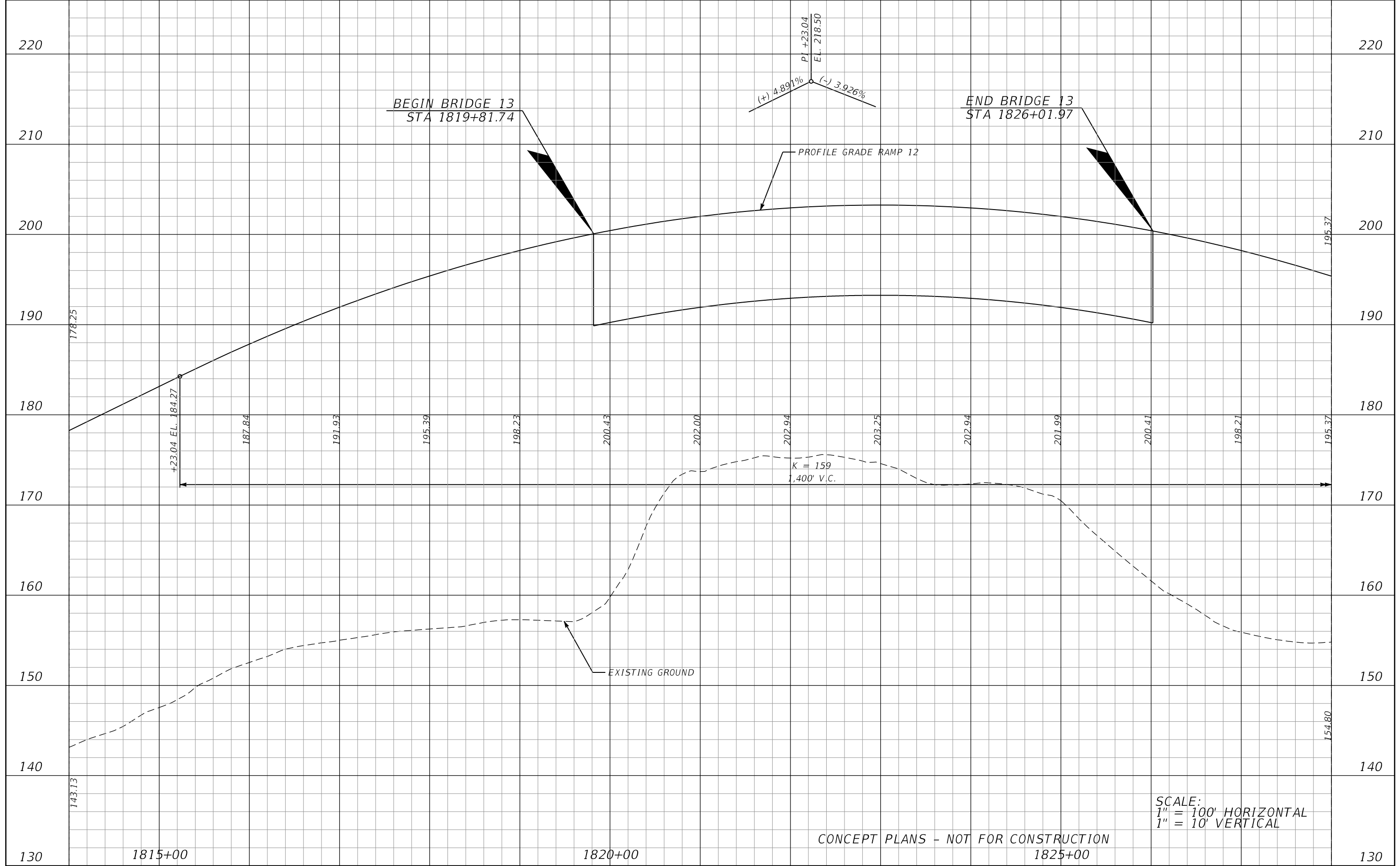
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DATE	DESCRIPTION	DATE	DESCRIPTION

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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 12

SHEET NO.
 99



SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION

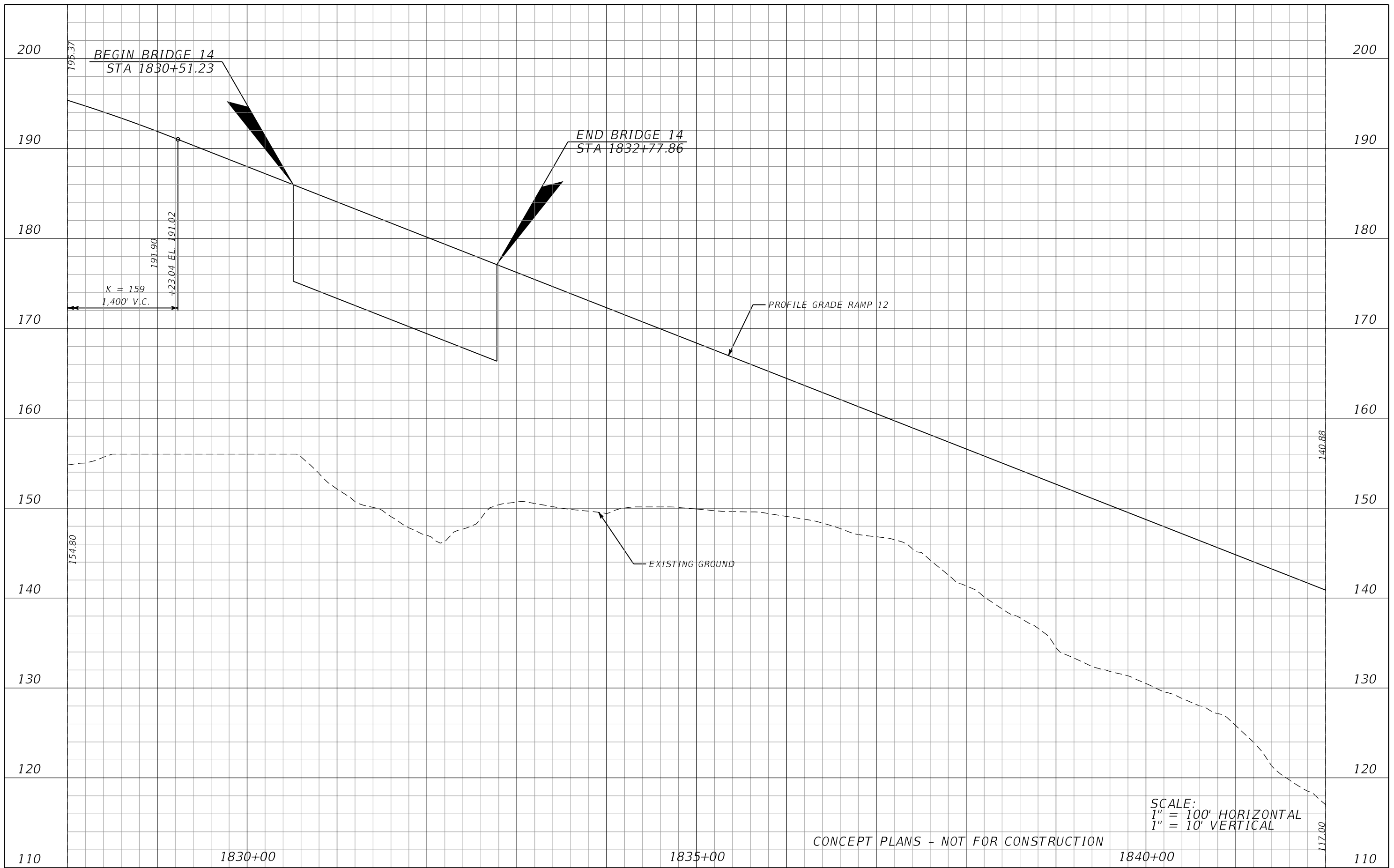
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DATE	DESCRIPTION	DATE	DESCRIPTION

JAMISON R. EDWARDS, P.E.
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 525 TECHNOLOGY PARK, SUITE 153
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 12

SHEET NO.
 100



SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION

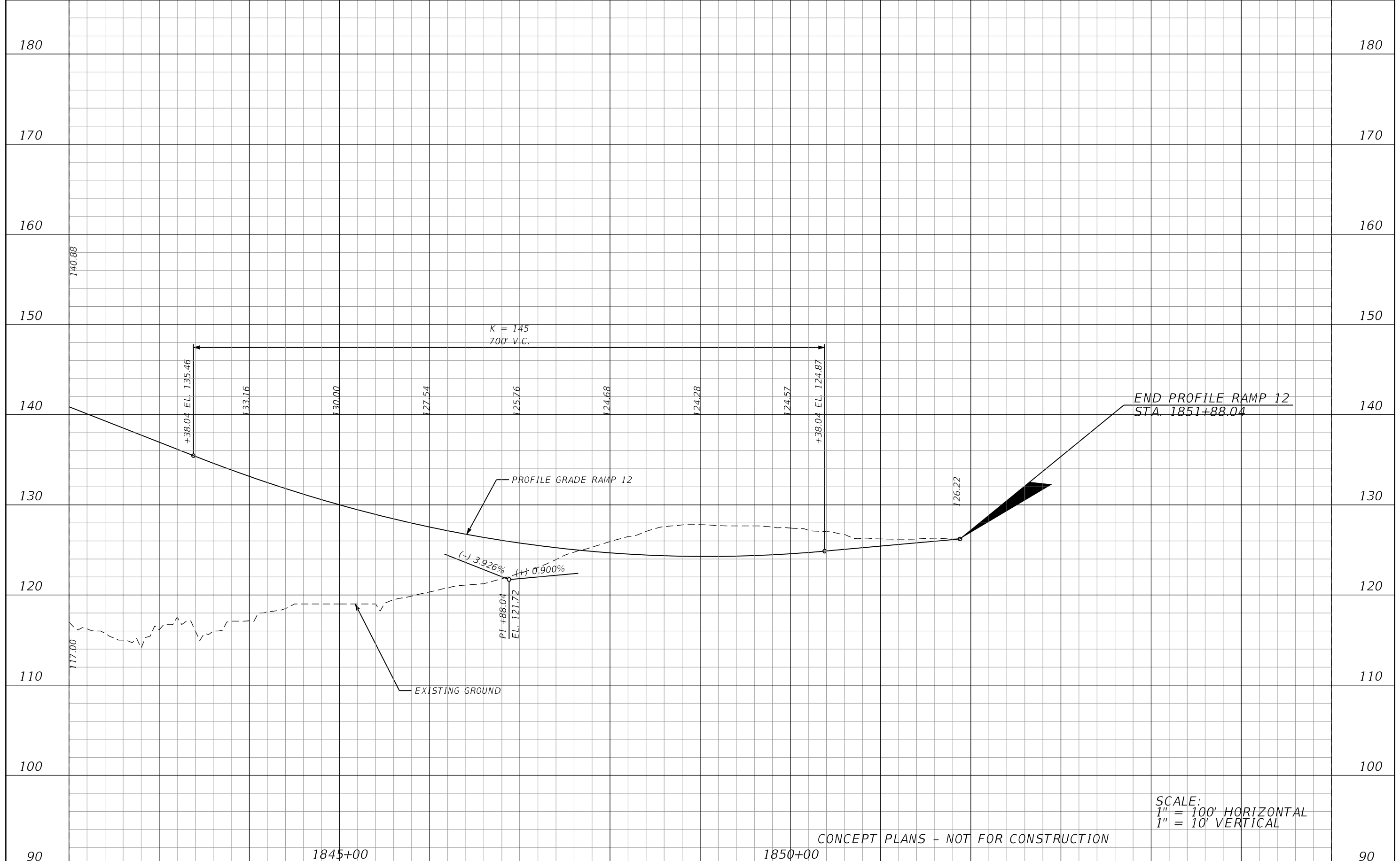
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 12

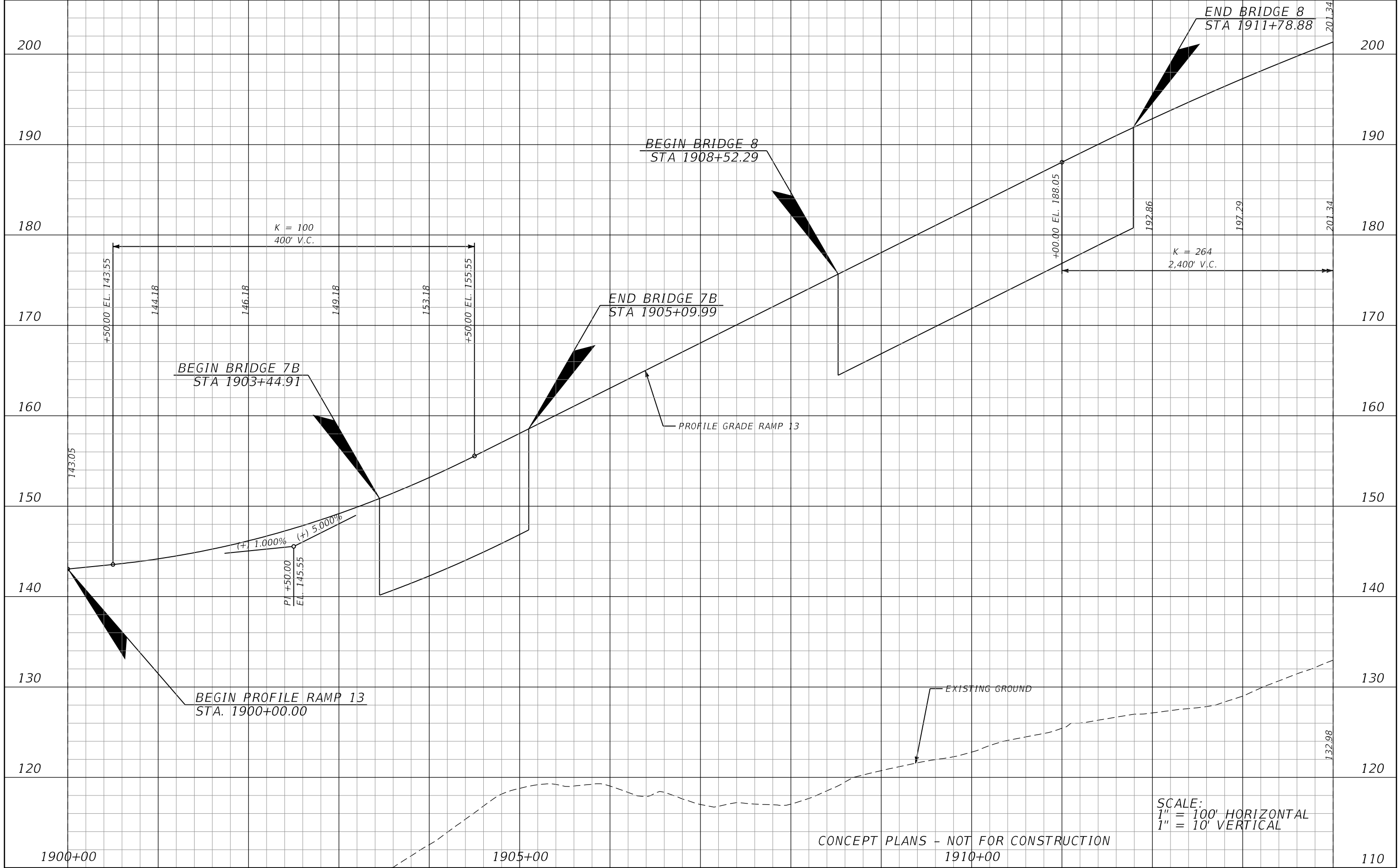
SHEET NO.
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SCALE:
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 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION

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REVISIONS																												
DATE	DESCRIPTION	DATE	DESCRIPTION																									
ROAD NO.	COUNTY	CFX PROJECT NUMBER																										
LOCC	LAKE ORANGE	599225																										



SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION
 1910+00

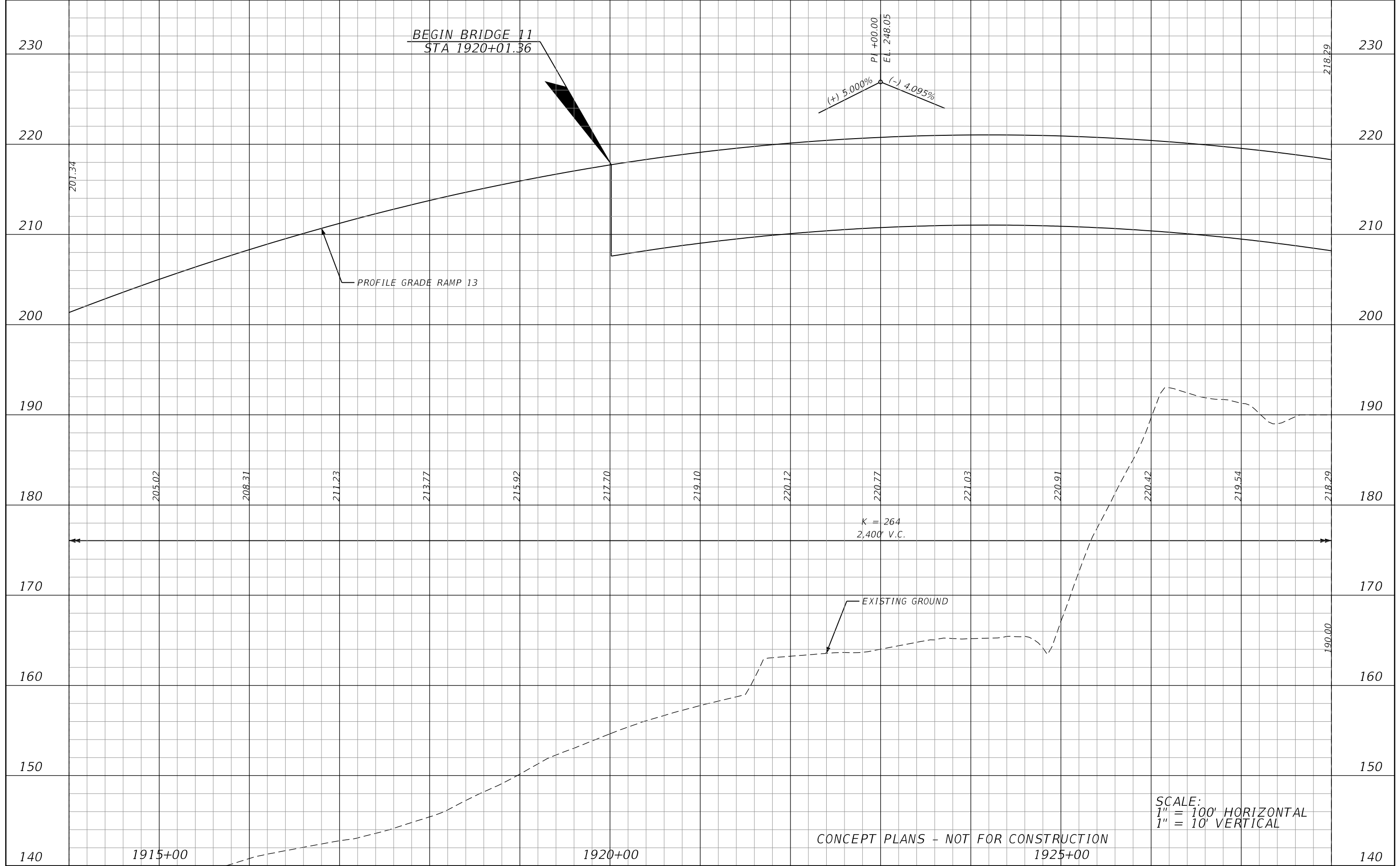
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DATE	DESCRIPTION	DATE	DESCRIPTION

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 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 13

SHEET NO.
 103



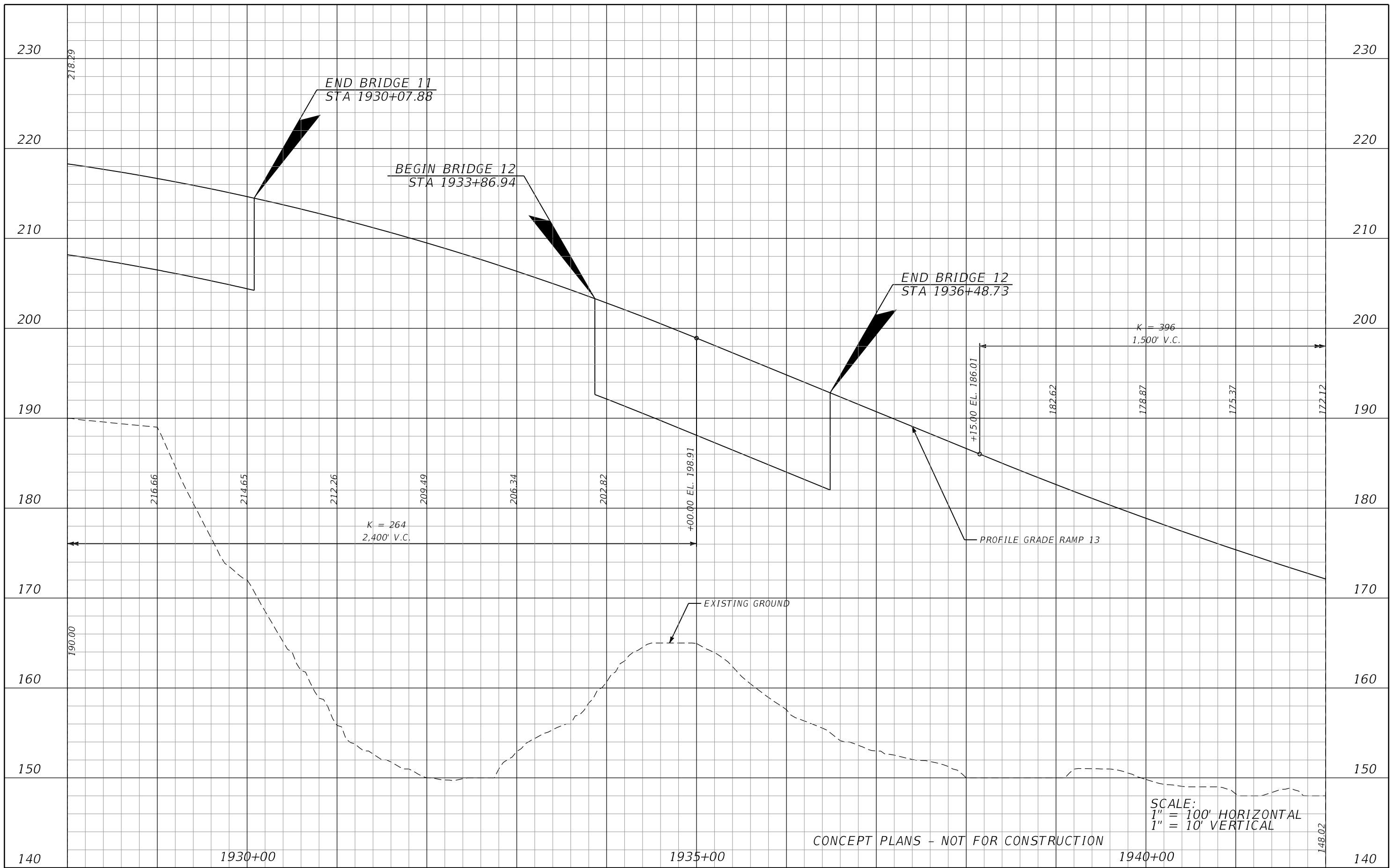
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DATE	DESCRIPTION	DATE	DESCRIPTION

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METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746
CERTIFICATE OF AUTHORIZATION: 2294

CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 13

SHEET NO.
104



CONCEPT PLANS - NOT FOR CONSTRUCTION

SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

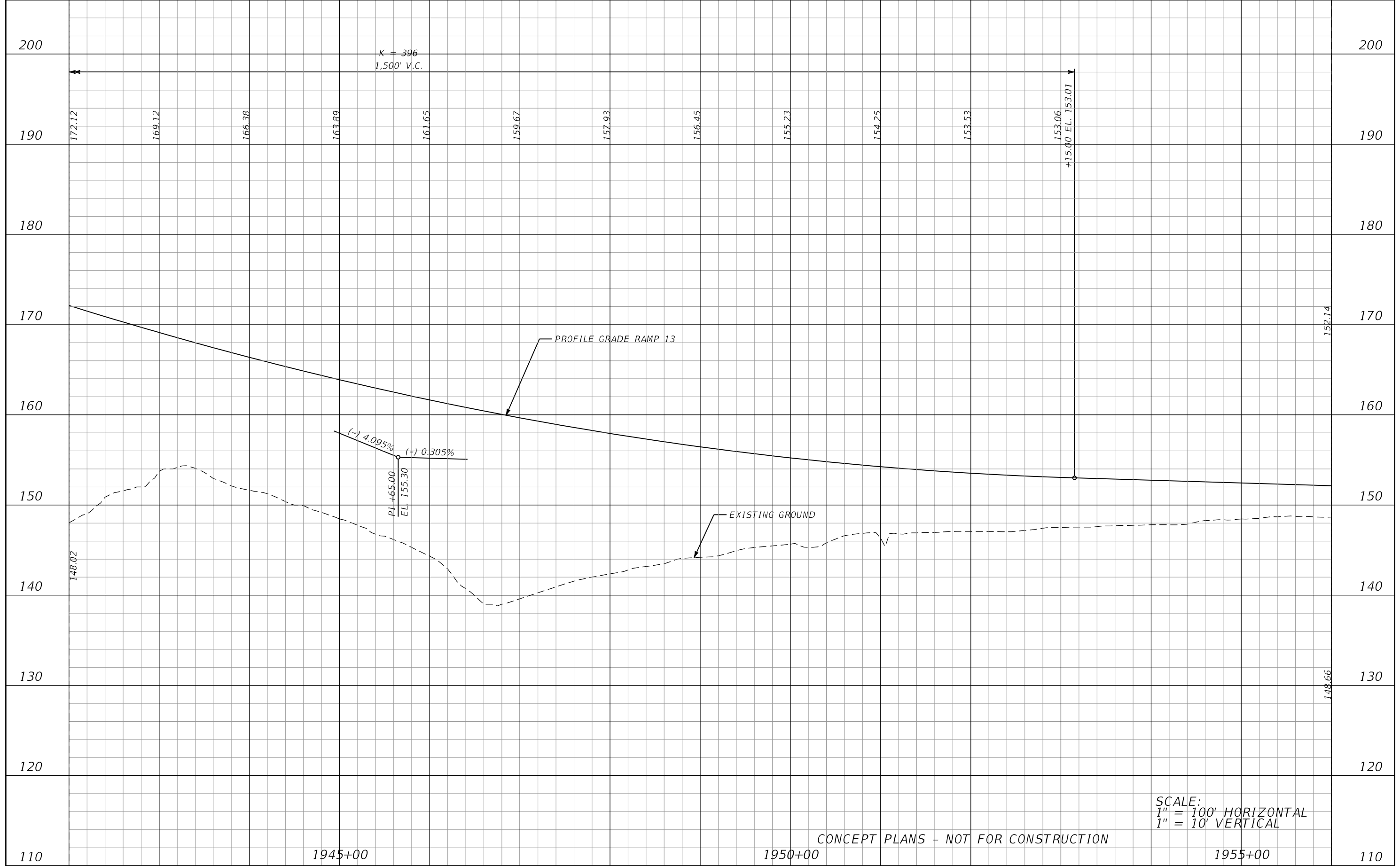
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DATE	DESCRIPTION	DATE	DESCRIPTION

JAMISON R. EDWARDS, P.E.
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 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 13

SHEET NO.
 105



SCALE:
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 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION

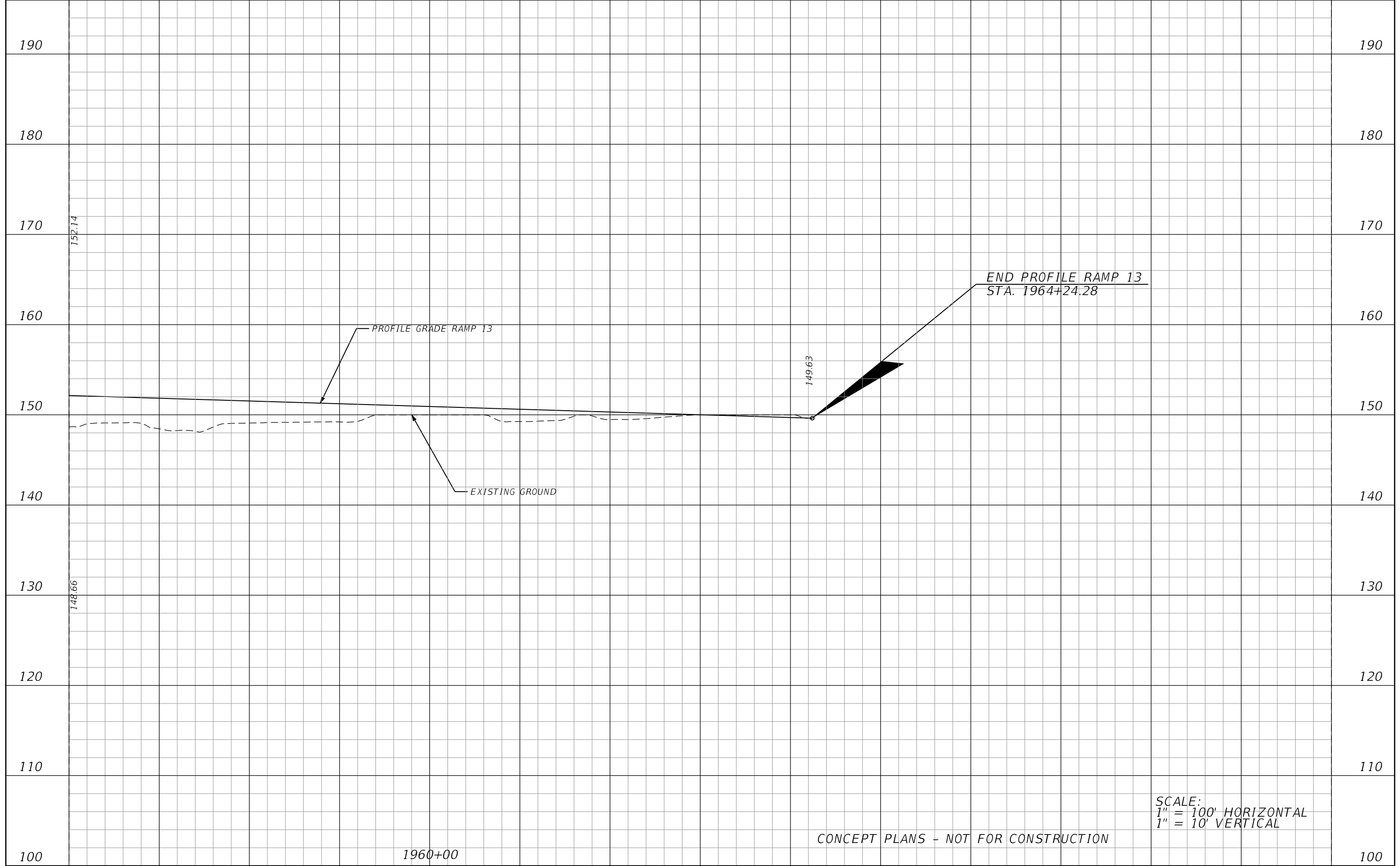
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 13

SHEET NO.
 106



SCALE:
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 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION

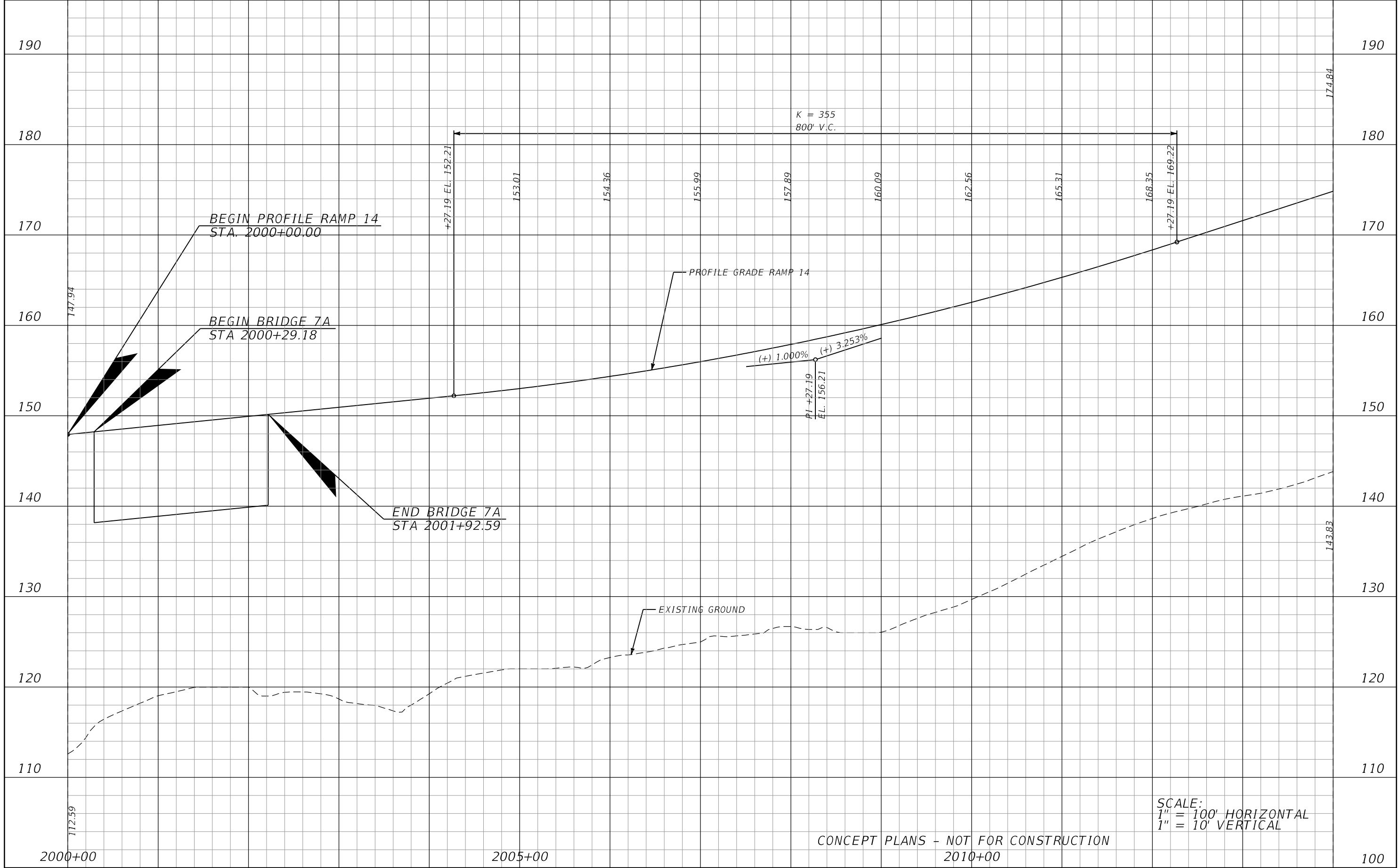
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DATE	DESCRIPTION	DATE	DESCRIPTION

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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 13

SHEET NO.
 107



SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION
 2010+00

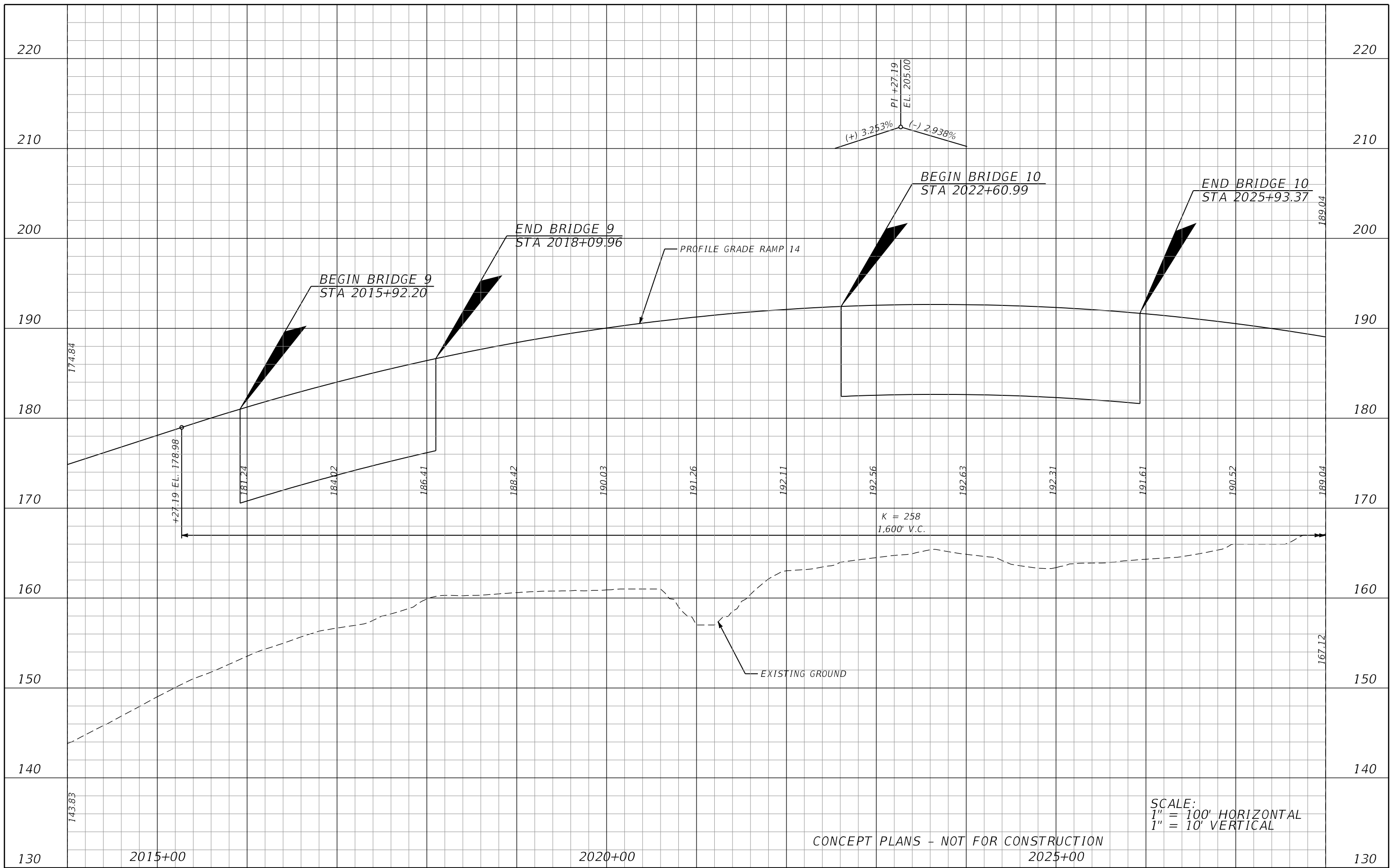
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CENTRAL FLORIDA EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 14

SHEET NO.
 108



SCALE:
 1" = 100' HORIZONTAL
 1" = 10' VERTICAL

CONCEPT PLANS - NOT FOR CONSTRUCTION
 2025+00

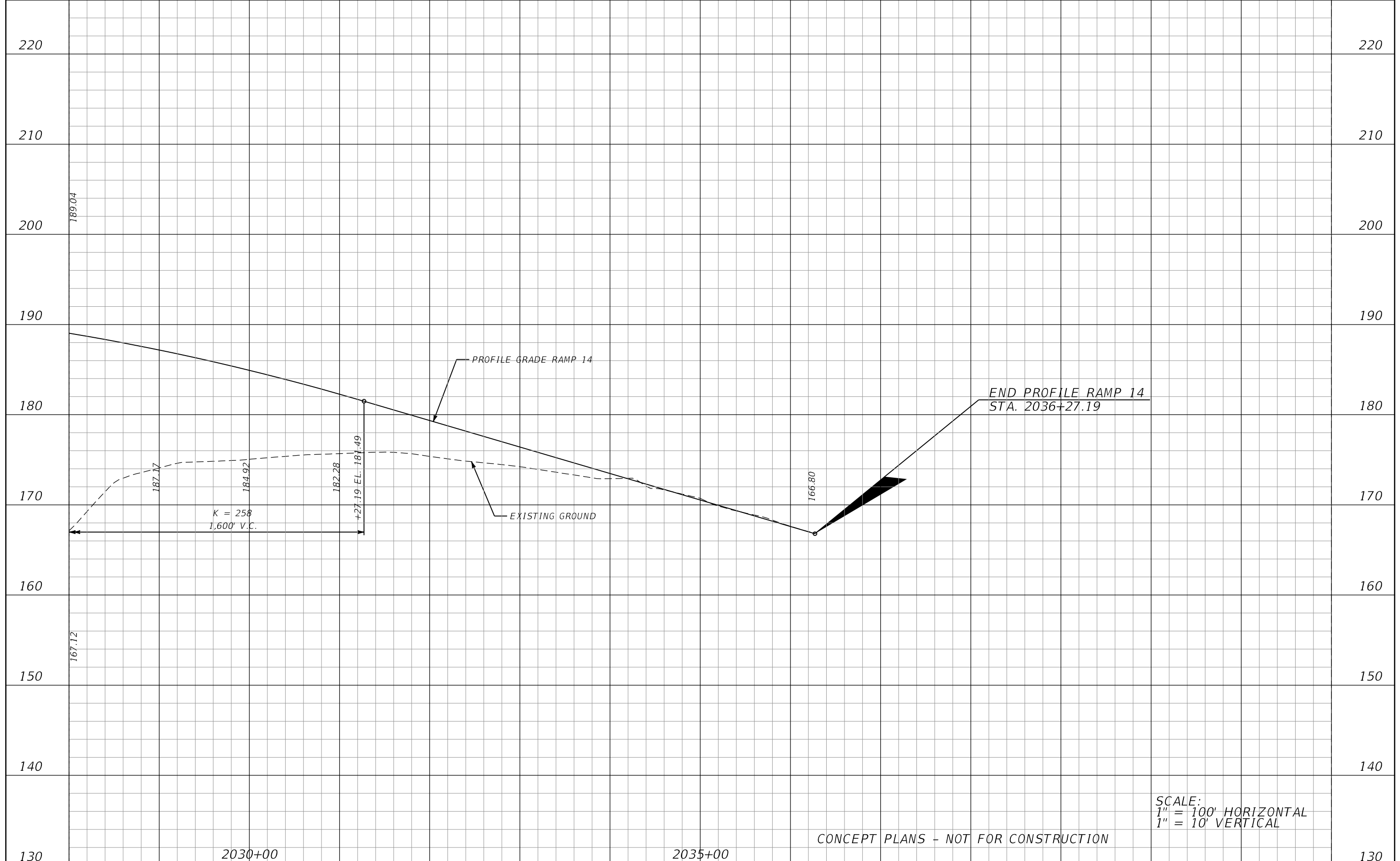
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ROAD NO.	COUNTY	CFX PROJECT NUMBER
LOCC	LAKE ORANGE	599225

ROADWAY PROFILE
RAMP 14

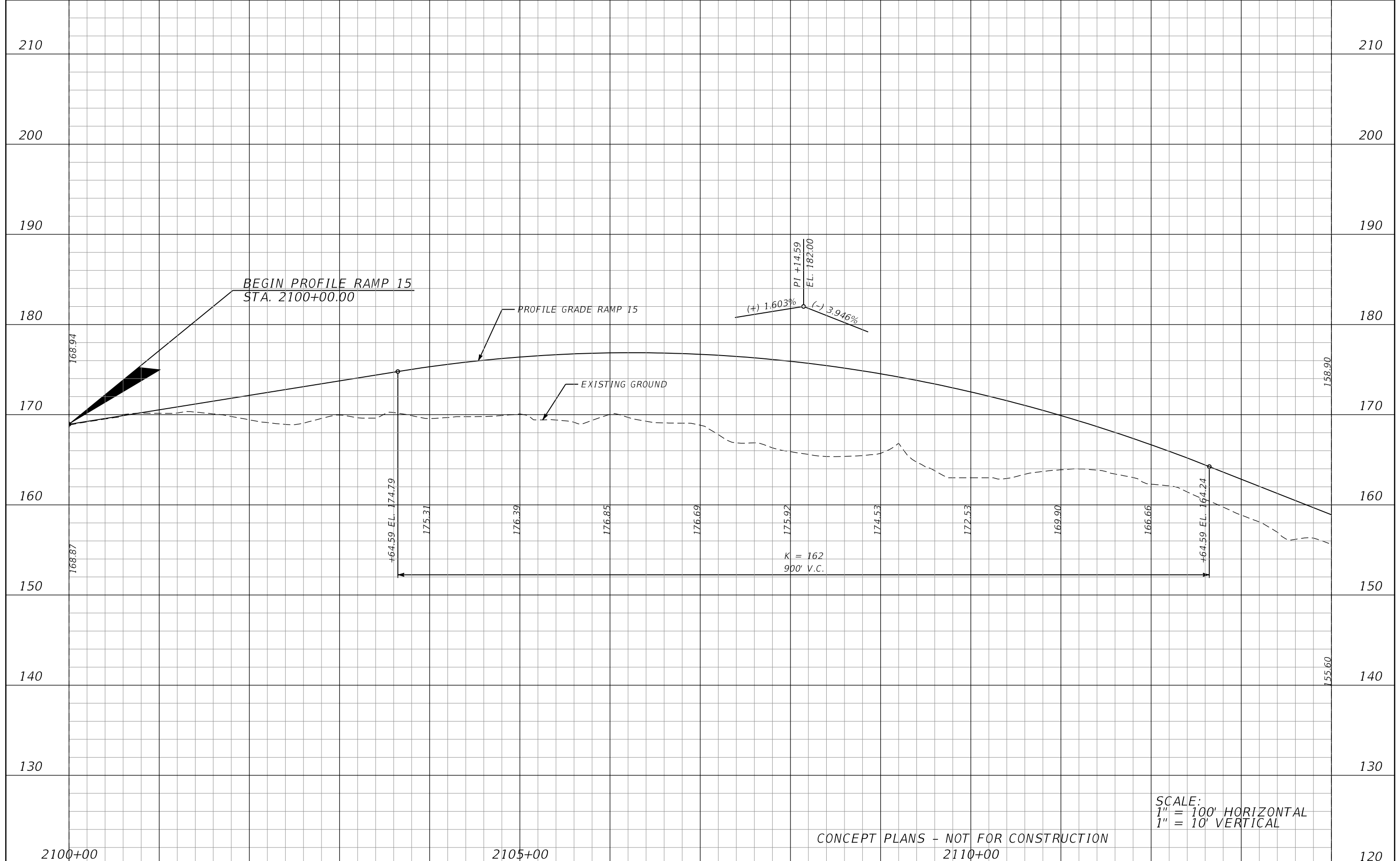
SHEET NO.
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SCALE:
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CONCEPT PLANS - NOT FOR CONSTRUCTION

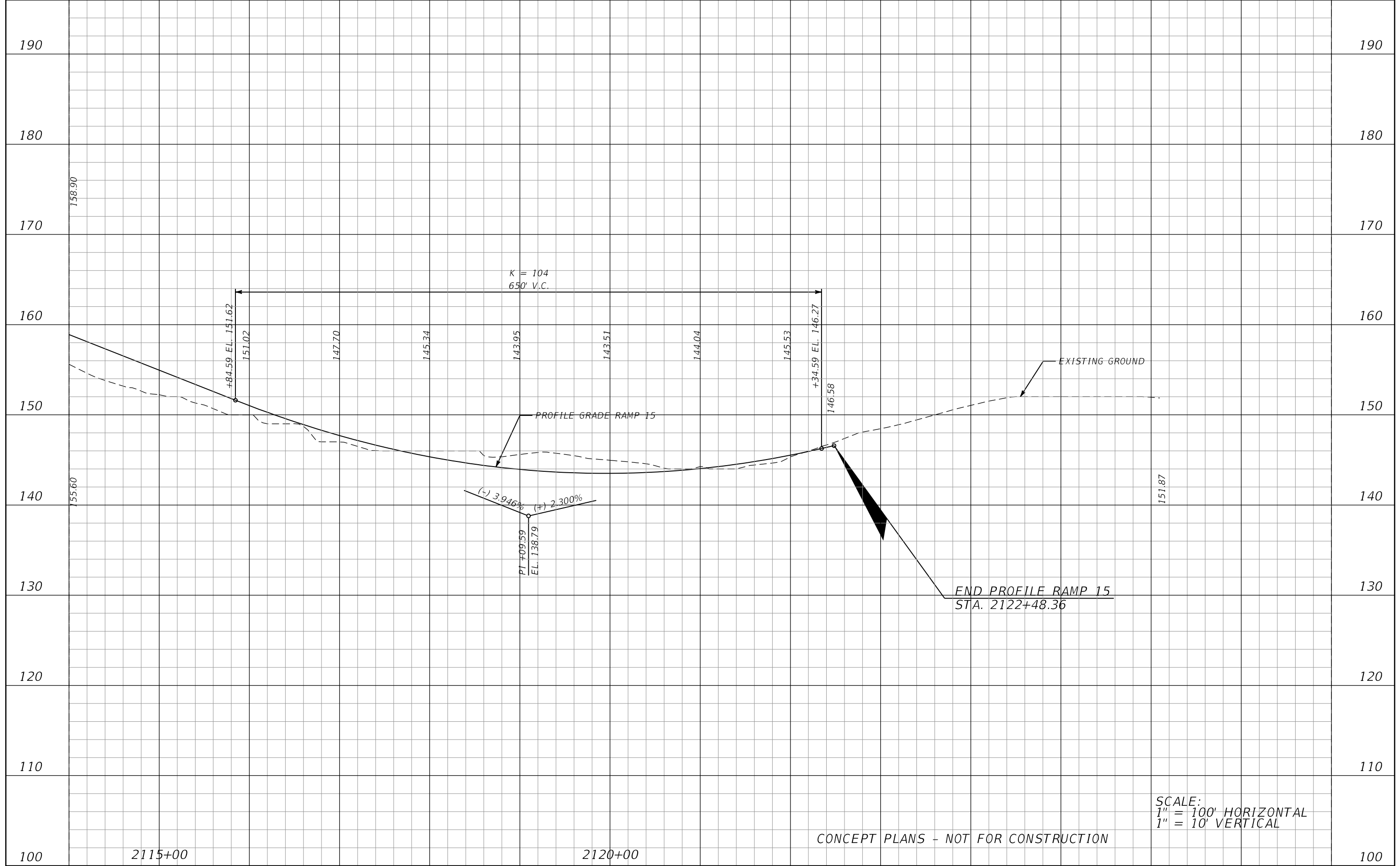
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							ROAD NO.	COUNTY		CFX PROJECT NUMBER
						LOCC	LAKE ORANGE	599225		



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CONCEPT PLANS - NOT FOR CONSTRUCTION
2110+00

2100+00		2105+00		2110+00		120																				
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ROADWAY PROFILE
RAMP 15

SHEET NO.
 112

Typical Section Package

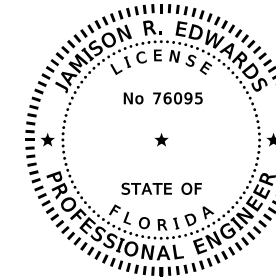
CENTRAL FLORIDA EXPRESSWAY AUTHORITY (CFX)

TYPICAL SECTION PACKAGE

LAKE/ORANGE COUNTY CONNECTOR FEASIBILITY/PD&E STUDY
FROM US 27 TO SR 429
CFX PROJECT NUMBER 599-225

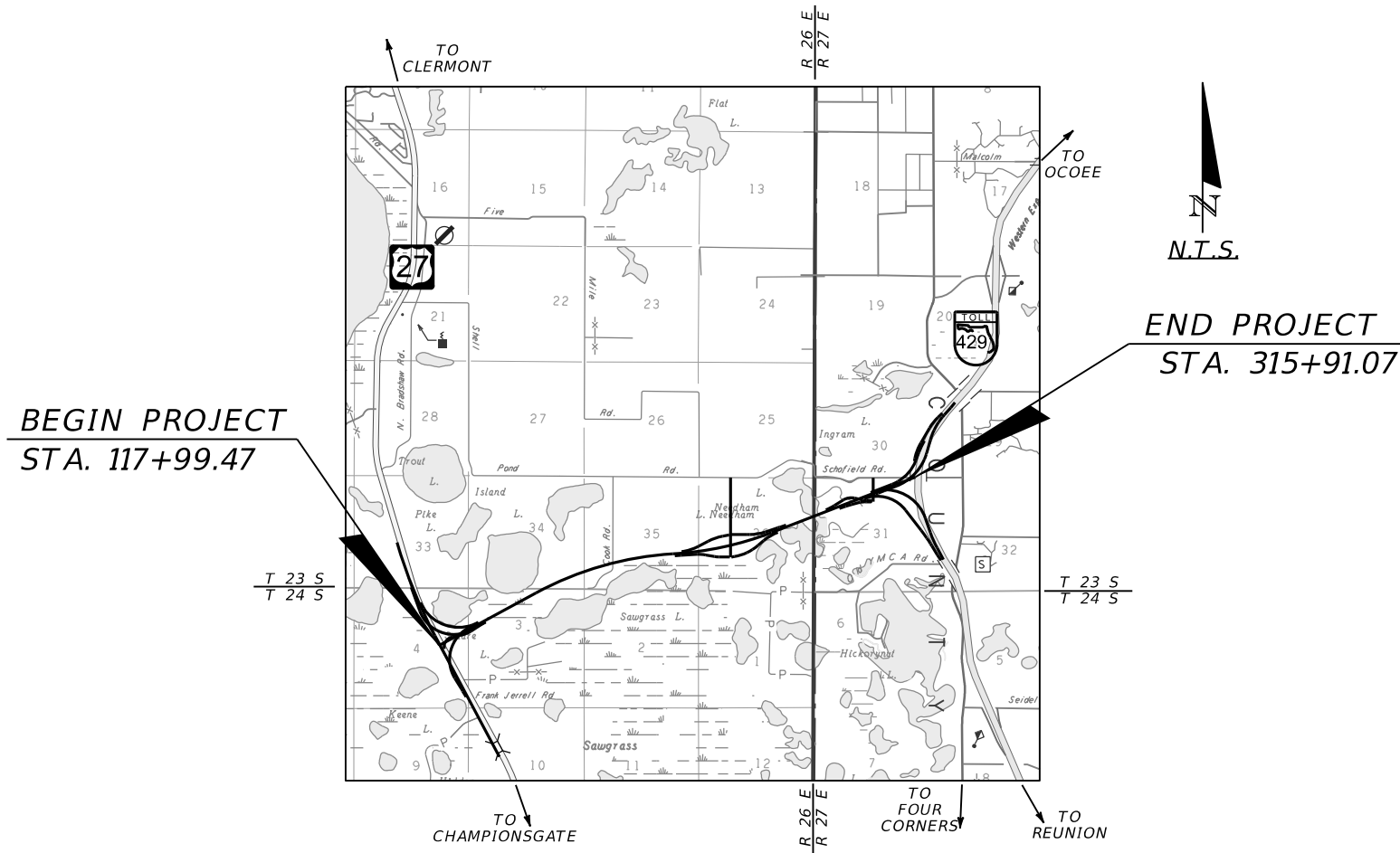
LAKE COUNTY & ORANGE COUNTY

THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



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

METRIC ENGINEERING, INC.
525 TECHNOLOGY PARKWAY, SUITE 153
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION 2294
VENDOR NO. F-59-1685550
JAMISON R. EDWARDS, P.E. NO. 76095



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

TYPICAL SECTION PACKAGE

SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
2	TYPICAL SECTION NO. 1
3	TYPICAL SECTION NO. 2
4	TYPICAL SECTION NO. 3
5	TYPICAL SECTION NO. 4
6	TYPICAL SECTION NO. 5
7	TYPICAL SECTION NO. 6
8	TYPICAL SECTION NO. 7
9	TYPICAL SECTION NO. 8
10	TYPICAL SECTION NO. 9
11	TYPICAL SECTION NO. 10
12	TYPICAL SECTION NO. 11
13	TYPICAL SECTION NO. 12
14	TYPICAL SECTION NO. 13
15	TYPICAL SECTION NO. 14
16	TYPICAL SECTION NO. 15
17	TYPICAL SECTION NO. 16
18	TYPICAL SECTION NO. 17
19	TYPICAL SECTION NO. 18
20	TYPICAL SECTION NO. 19

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL () C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- (X) FREEWAY/EXPWY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

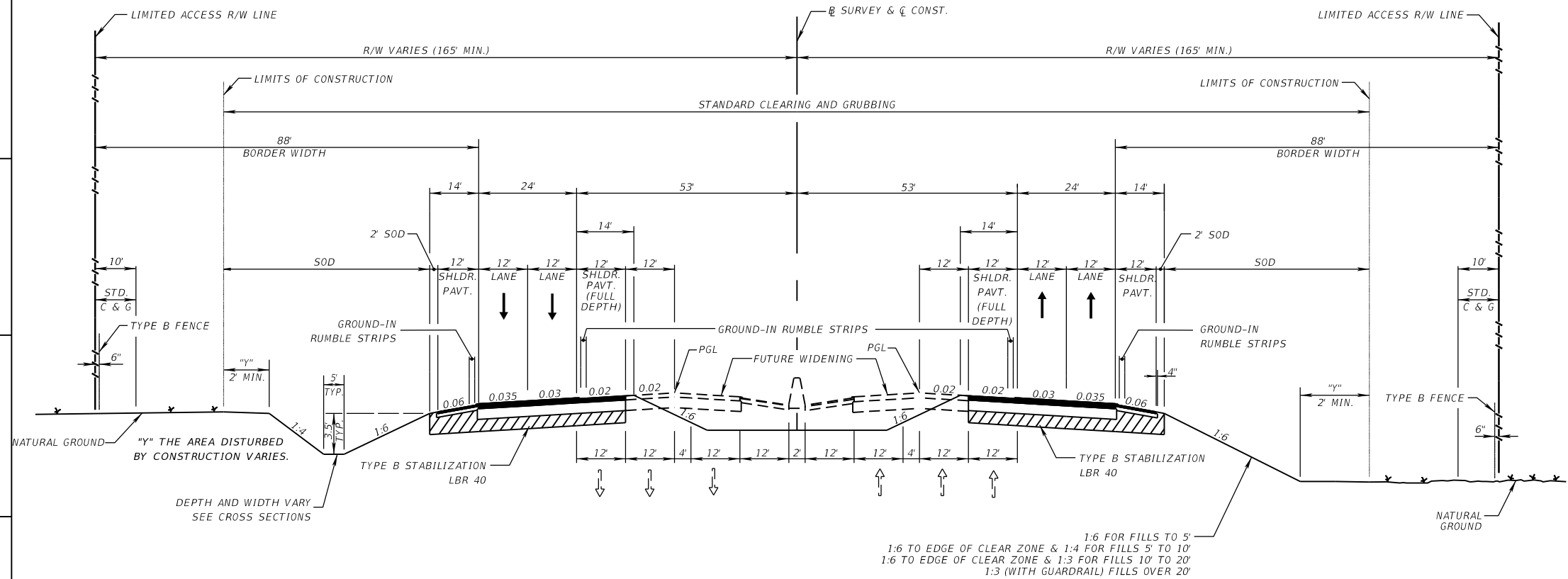
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BORDER WIDTH

TYPICAL SECTION No. 1



TYPICAL SECTION LAKE/ORANGE COUNTY CONNECTOR

- STA. 117+99.47 TO STA. 124+70.04
- STA. 149+37.04 TO STA. 187+59.18
- STA. 188+82.18 TO STA. 243+11.67
- STA. 244+70.07 TO STA. 305+55.56
- STA. 308+13.51 TO STA. 312+97.93

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD% T = TBD% (24 HOUR)
 DESIGN SPEED = 70 MPH
 POSTED SPEED = 70 MPH

1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'
 1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'
 1:3 (WITH GUARDRAIL) FILLS OVER 20'

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

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL () C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- (X) FREEWAY/EXPWY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

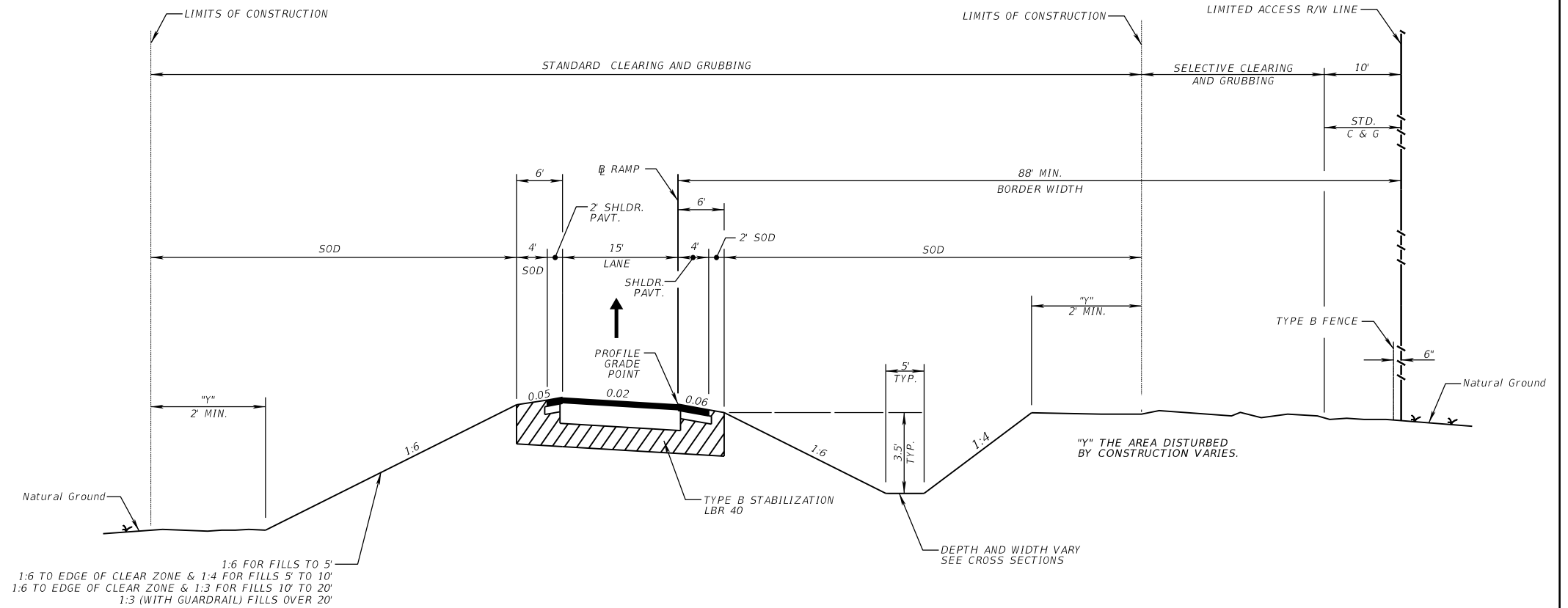
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BORDER WIDTH

TYPICAL SECTION No. 2



1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'
 1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'
 1:3 (WITH GUARDRAIL) FILLS OVER 20'

TYPICAL SECTION SINGLE LANE RAMP

- RAMP 01 (NB US27 TO EB LOCC)
- RAMP 02 (WB LOCC TO SB US27)
- RAMP 03 (SB US27 TO EB LOCC)
- RAMP 04 (WB LOCC TO NB US27)
- RAMP 05 (EB LOCC EXIT RAMP TO CR455)
- RAMP 06 (ENTRANCE RAMP TO WB LOCC FROM CR455)
- RAMP 07 (WB LOCC EXIT RAMP TO CR455)
- RAMP 08 (ENTRANCE RAMP TO EB LOCC FROM CR455)
- RAMP 09 (ENTRANCE RAMP TO WB LOCC FROM VALENCIA)
- RAMP 10 (EB LOCC EXIT RAMP TO VALENCIA)
- RAMP 11 (EB LOCC TO SB SR429)
- RAMP 12 (NB SR429 TO WB LOCC)
- RAMP 13 (EB LOCC TO NB SR429)
- RAMP 14 (SB SR429 TO WB LOCC)
- RAMP 15 (SB SR429 TO SCHOFIELD)

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL () C3C : SUBURBAN COMM.
- () C2 : RURAL () C4 : URBAN GENERAL
- () C2T : RURAL TOWN () C5 : URBAN CENTER
- () C3R : SUBURBAN RES. () C6 : URBAN CORE
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
- (X) FREEWAY/EXPWY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

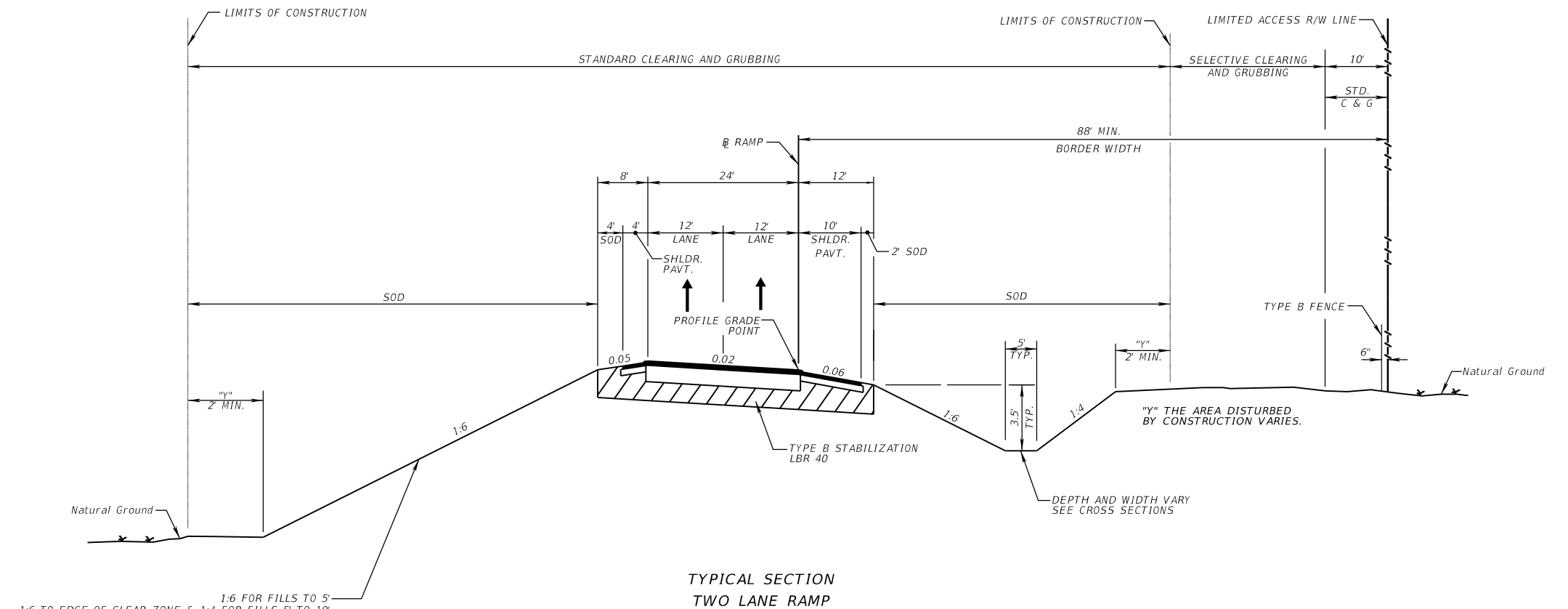
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BORDER WIDTH

TYPICAL SECTION No. 3



TYPICAL SECTION TWO LANE RAMP

- RAMP 06 (ENTRANCE RAMP TO WB LOCC FROM CR455)
- RAMP 08 (ENTRANCE RAMP TO EB LOCC FROM CR455)
- RAMP 09 (ENTRANCE RAMP TO WB LOCC FROM VALENCIA)

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD% T = TBD% (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

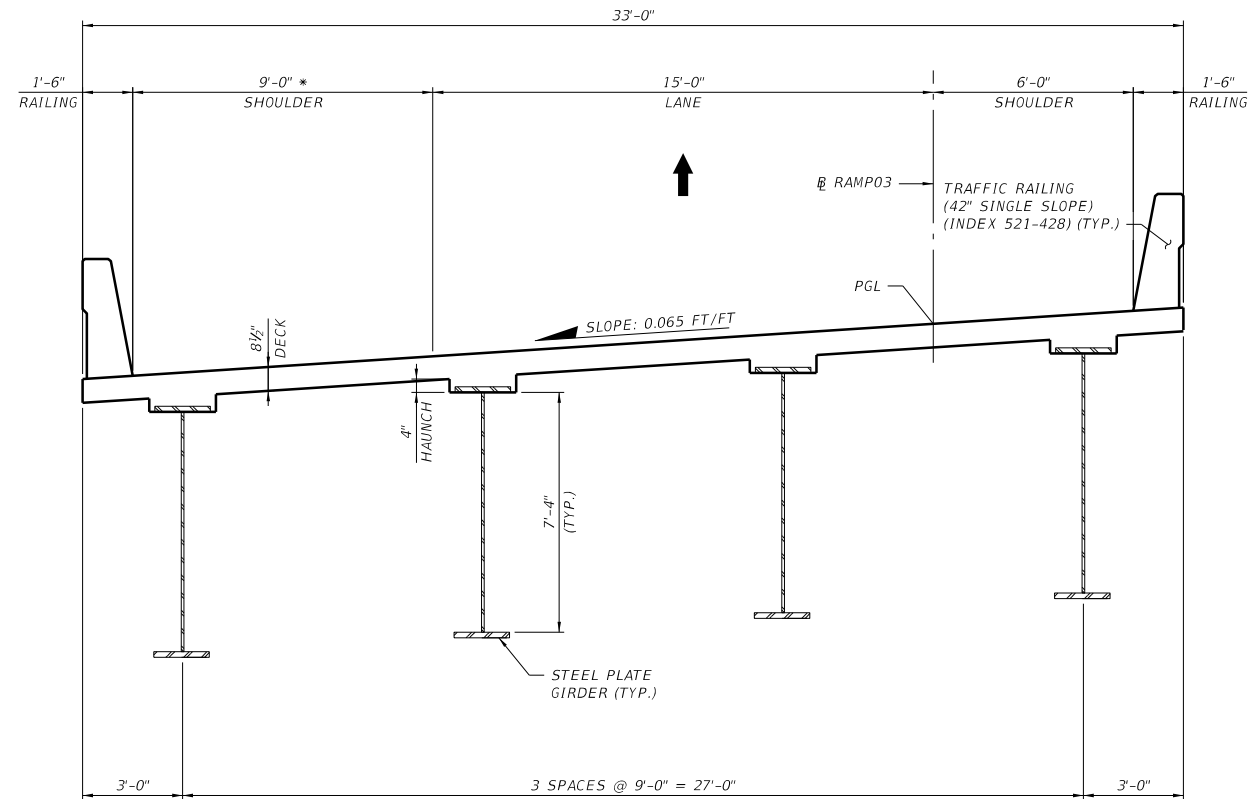
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 4



NOTES:
 * STOPPING SIGHT DISTANCE FOR SHOULDER WIDTHS
 BASED ON ASSUMED 5% MAXIMUM LONGITUDINAL GRADES

**TYPICAL SECTION
 BRIDGE 01
 RAMP 3 OVER US 27
 STA. 915+50.45 TO STA. 922+01.56**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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NOT TO SCALE

SHEET NO.

5

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

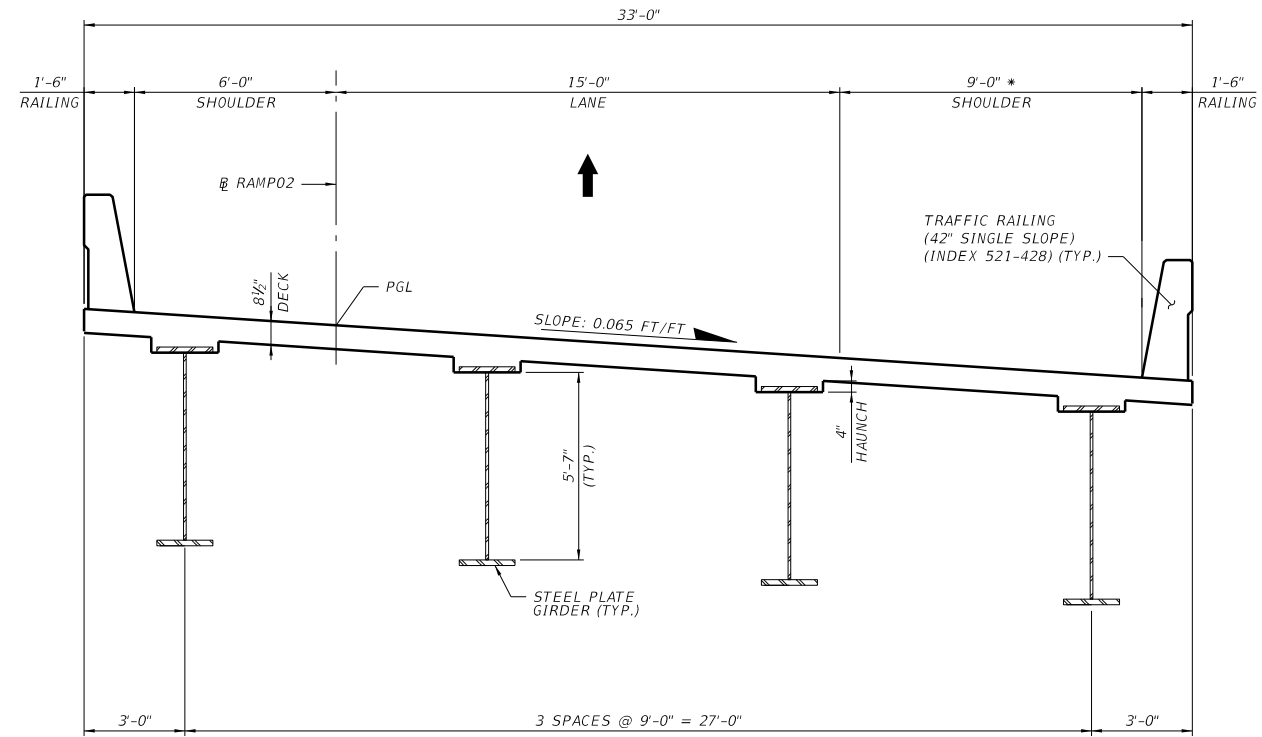
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 5



NOTES:
 * STOPPING SIGHT DISTANCE FOR SHOULDER WIDTHS
 BASED ON ASSUMED 5% MAXIMUM LONGITUDINAL GRADES

**TYPICAL SECTION
 BRIDGE 02
 RAMP 2 OVER US 27 AND RAMP 3
 STA. 808+16.21 TO STA. 830+20.65**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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NOT TO SCALE

SHEET NO.

6

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

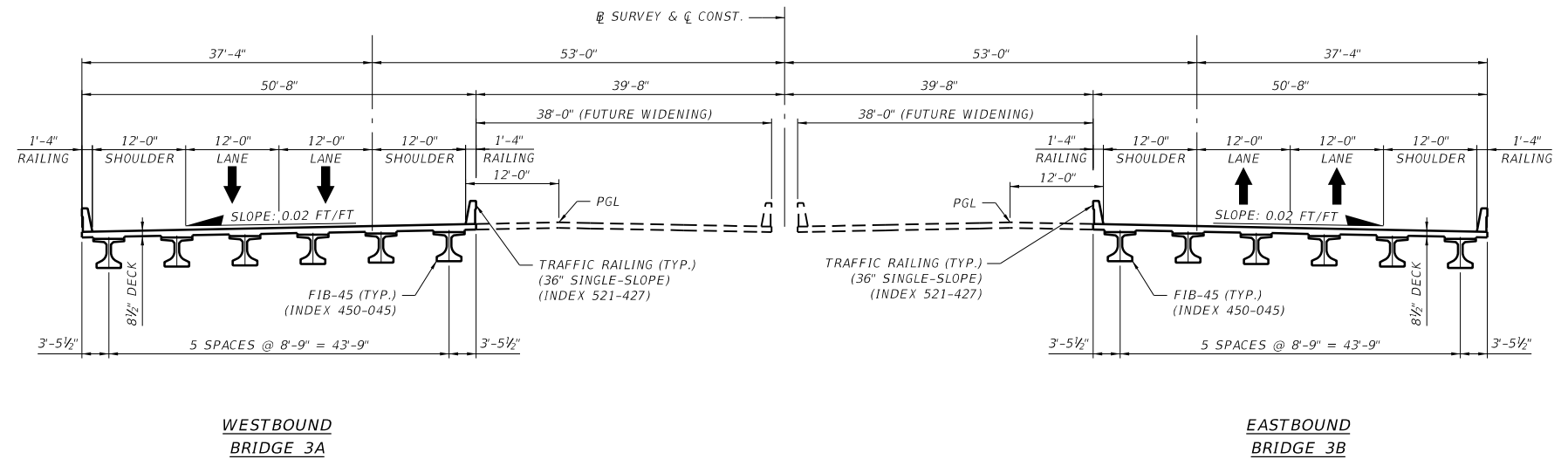
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 6



**TYPICAL SECTION
BRIDGE 3A AND 3B
MAINLINE OVER EXISTING WETLANDS
STA. 124+70.04 TO STA. 149+37.04**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD% T = TBD% (24 HOUR)
 DESIGN SPEED = 70 MPH
 POSTED SPEED = 70 MPH

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

NOT TO SCALE

SHEET NO.

7

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

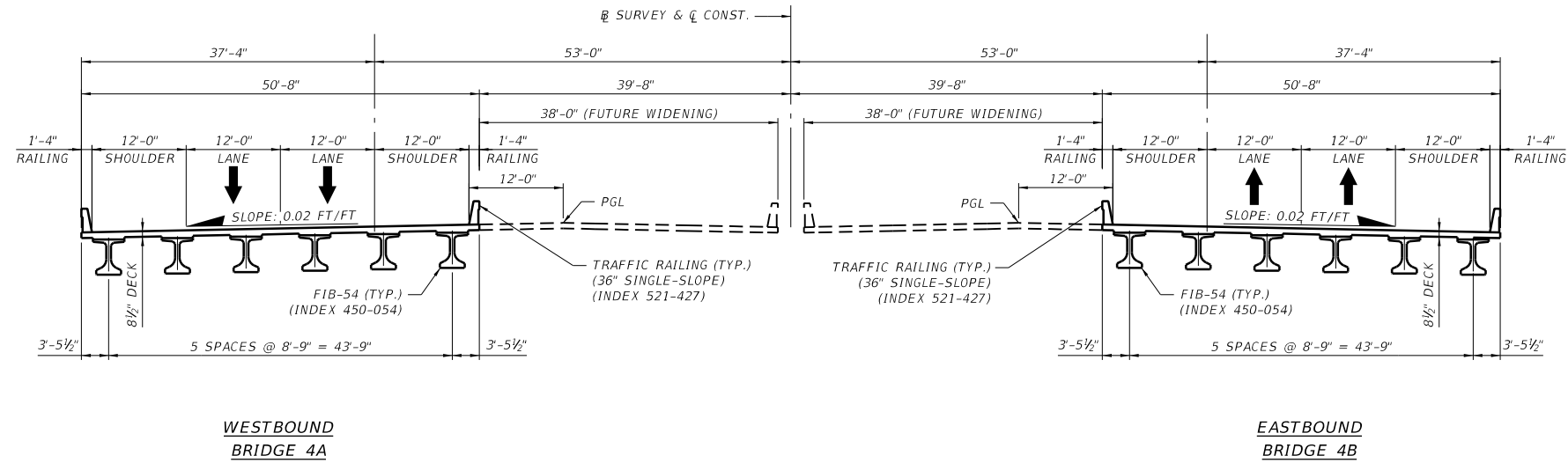
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 7



**TYPICAL SECTION
BRIDGE 4A AND 4B
MAINLINE OVER COOK RD.
STA. 187+59.18 TO STA. 188+82.18**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 70 MPH
 POSTED SPEED = 70 MPH

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

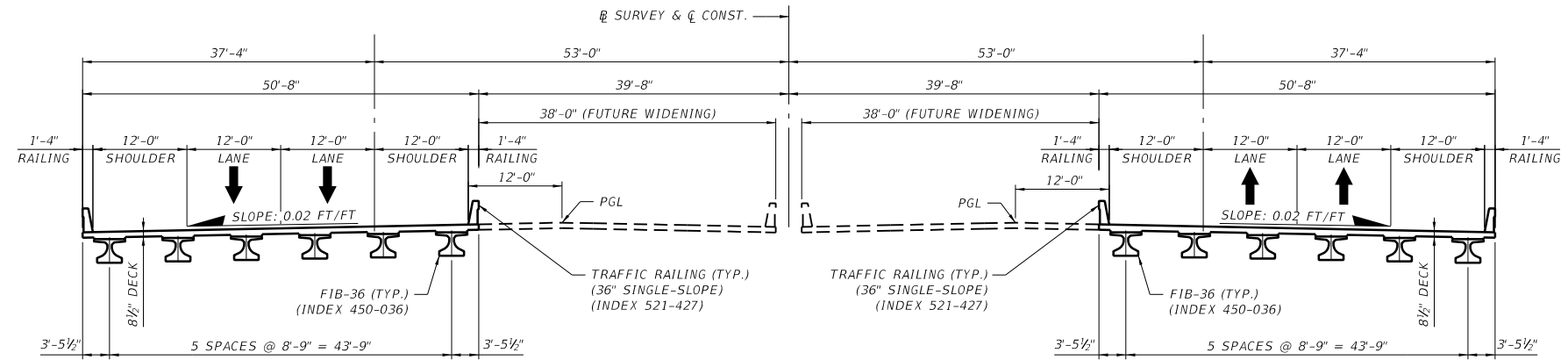
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 8



**WESTBOUND
BRIDGE 5A**

**EASTBOUND
BRIDGE 5B**

**TYPICAL SECTION
BRIDGE 5A AND 5B
MAINLINE OVER CR 455
STA. 243+11.67 TO STA. 244+70.07**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 70 MPH
 POSTED SPEED = 70 MPH

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SHEET NO.

9

NOT TO SCALE

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

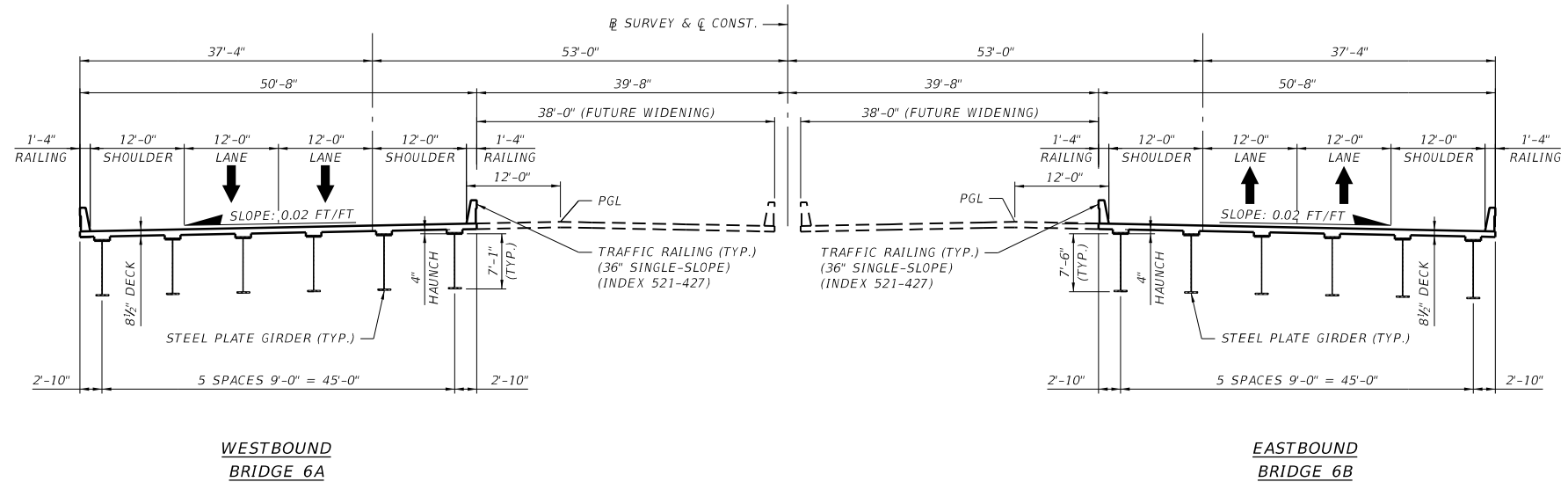
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 9



**TYPICAL SECTION
BRIDGE 6A AND 6B
MAINLINE OVER RAMP 9
STA. 305+55.56 TO STA. 308+13.51**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD% T = TBD% (24 HOUR)
 DESIGN SPEED = 70 MPH
 POSTED SPEED = 70 MPH

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NOT TO SCALE

SHEET NO.

10

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

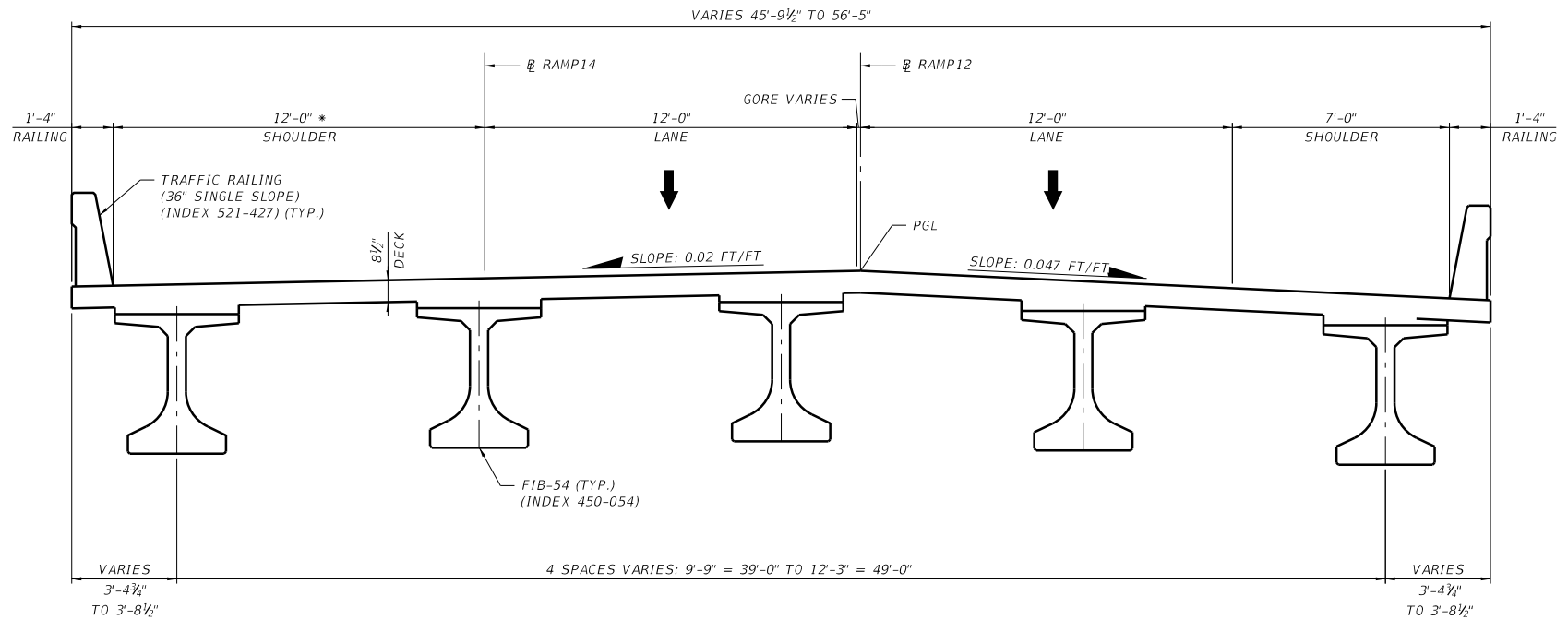
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 10



**TYPICAL SECTION
BRIDGE 7A
MAINLINE OVER VALENCIA PARKWAY
RAMP 12 OVER VALENCIA PARKWAY
RAMP 14 OVER VALENCIA PARKWAY
STA. 312+97.93 TO STA. 314+63.01**

NOTES:
* STOPPING SIGHT DISTANCE FOR SHOULDER WIDTHS
BASED ON ASSUMED 5% MAXIMUM LONGITUDINAL GRADES

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD% T = TBD% (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

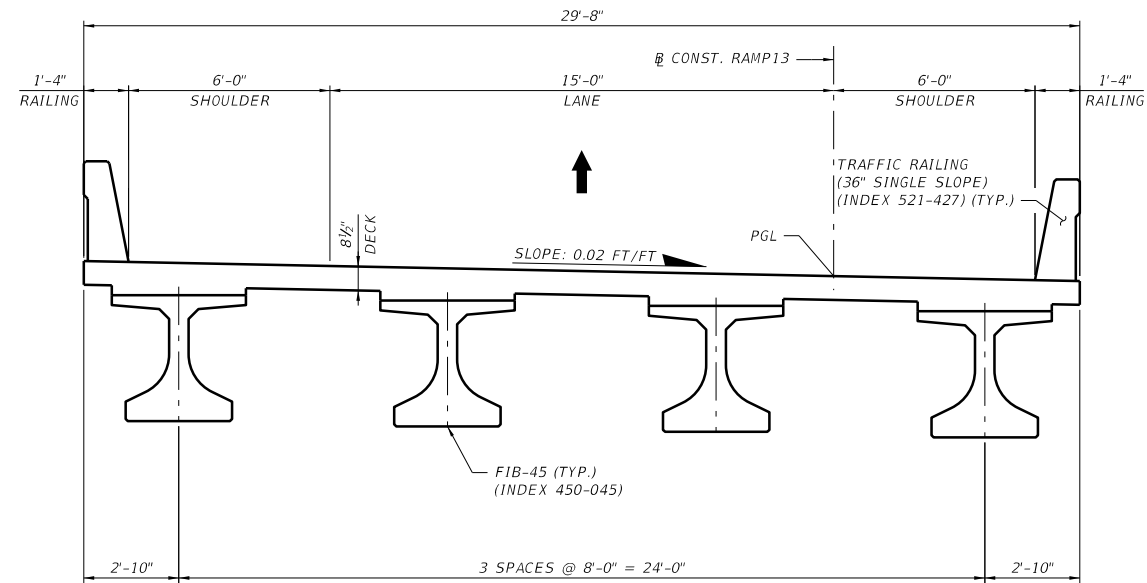
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 11



**TYPICAL SECTION
BRIDGE 7B
RAMP 13 OVER VALENCIA PARKWAY
STA. 1903+44.91 TO STA. 1905+09.99**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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NOT TO SCALE

SHEET NO.

12

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

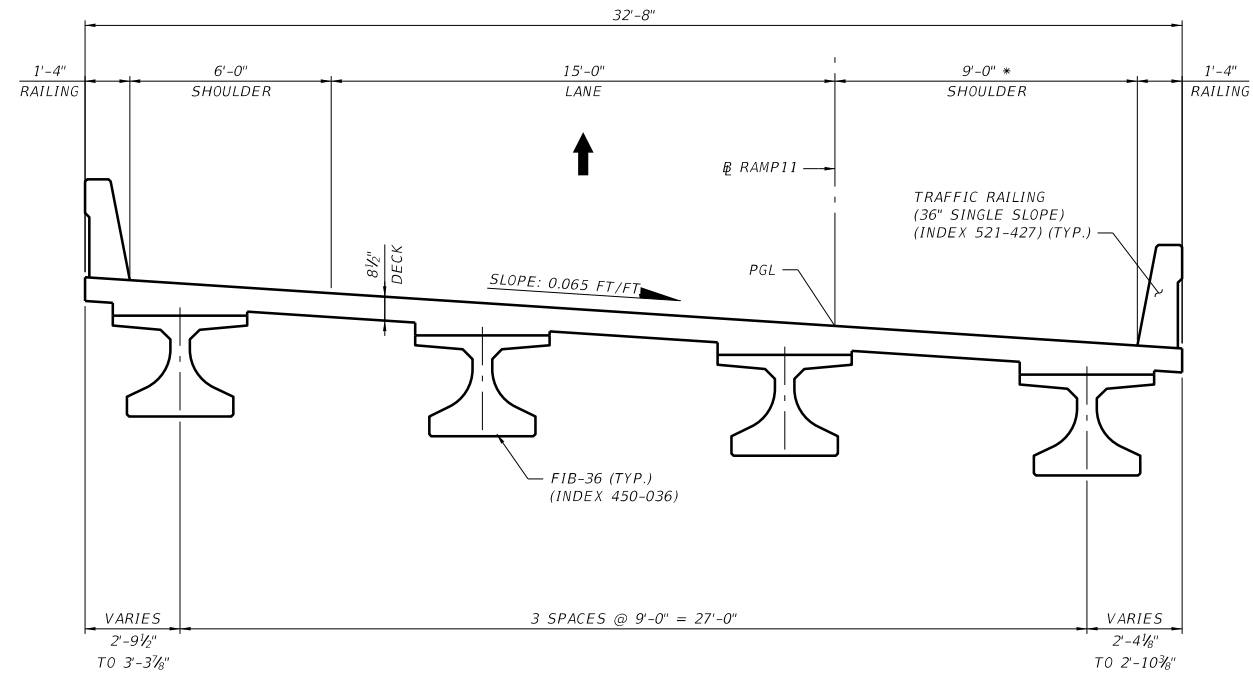
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 12



NOTES:
 * STOPPING SIGHT DISTANCE FOR SHOULDER WIDTHS
 BASED ON ASSUMED 5% MAXIMUM LONGITUDINAL GRADES

**TYPICAL SECTION
 BRIDGE 7C
 RAMP 11 OVER VALENCIA PARKWAY
 STA. 1703+28.27 TO STA. 1704+82.89**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

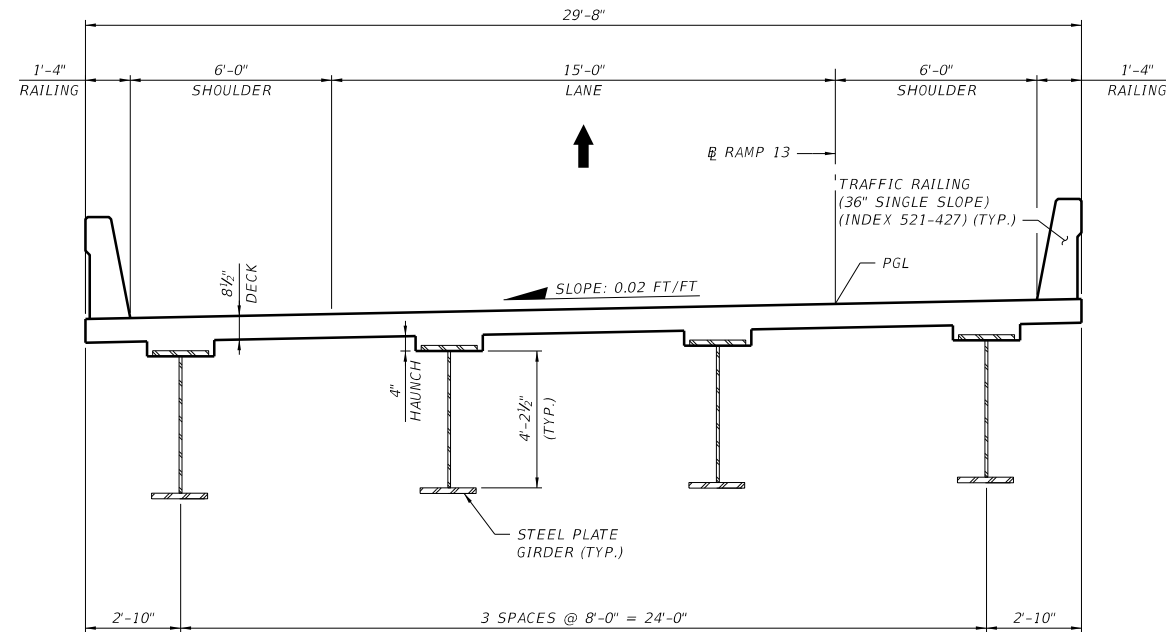
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 13



TYPICAL SECTION
BRIDGE 08
RAMP 13 OVER RAMP 12
STA. 1908+52.29 TO STA. 1911+78.88

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

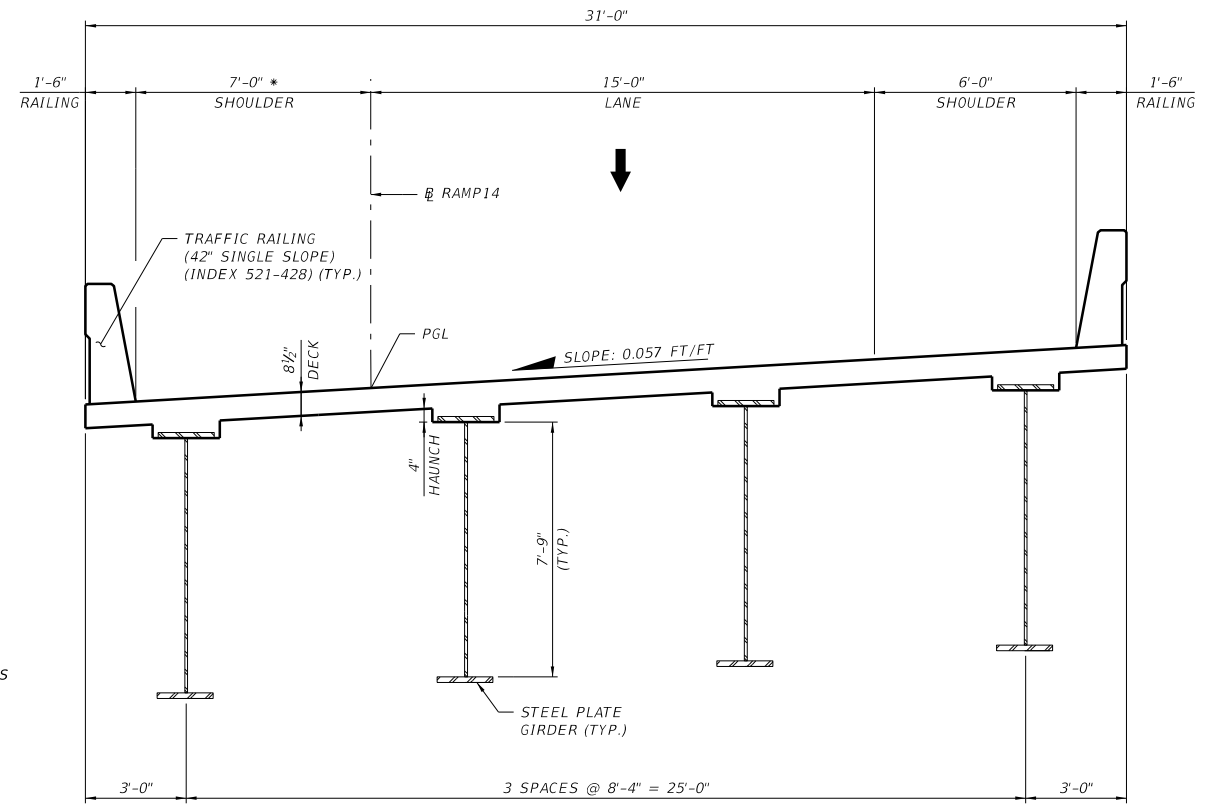
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 14



NOTES:
 * STOPPING SIGHT DISTANCE FOR SHOULDER WIDTHS
 BASED ON ASSUMED 5% MAXIMUM LONGITUDINAL GRADES

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

**TYPICAL SECTION
 BRIDGE 09
 RAMP 14 OVER SCHOFIELD RD.
 STA. 2015+92.20 STA. 2018+09.96**

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

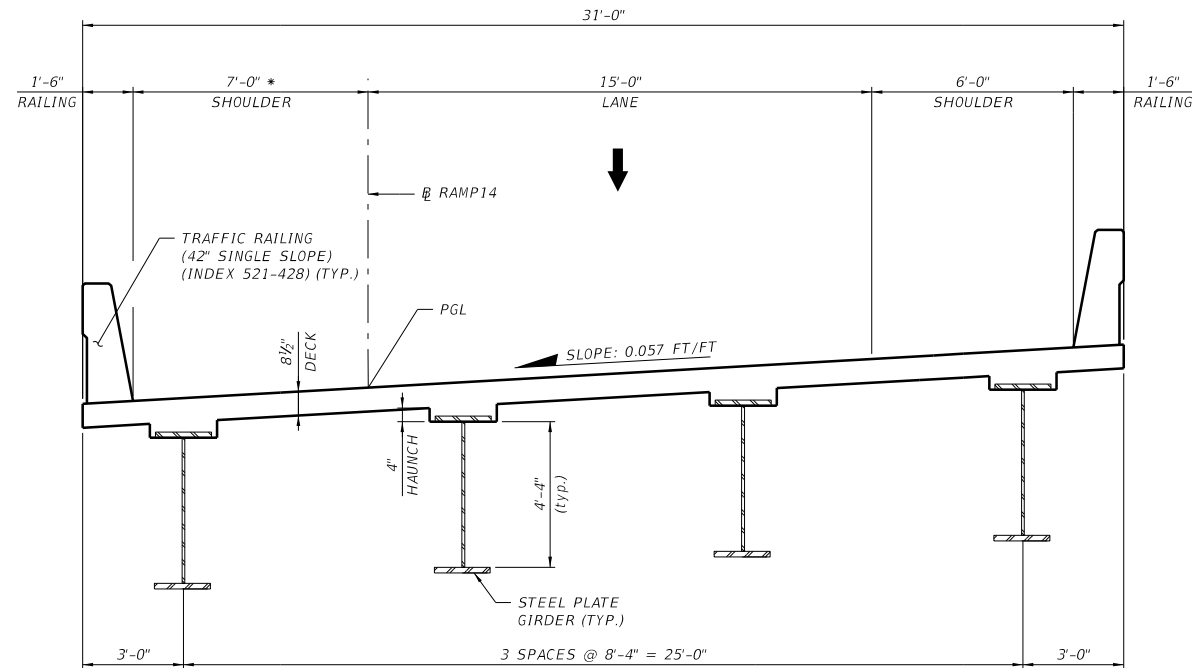
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 15



NOTES:
 * STOPPING SIGHT DISTANCE FOR SHOULDER WIDTHS
 BASED ON ASSUMED 5% MAXIMUM LONGITUDINAL GRADES

**TYPICAL SECTION
 BRIDGE 10
 RAMP 14 OVER SB SR429 EXIT RAMP TO SCHOFIELD RD.
 STA. 2022+60.99 TO STA. 2025+93.37**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

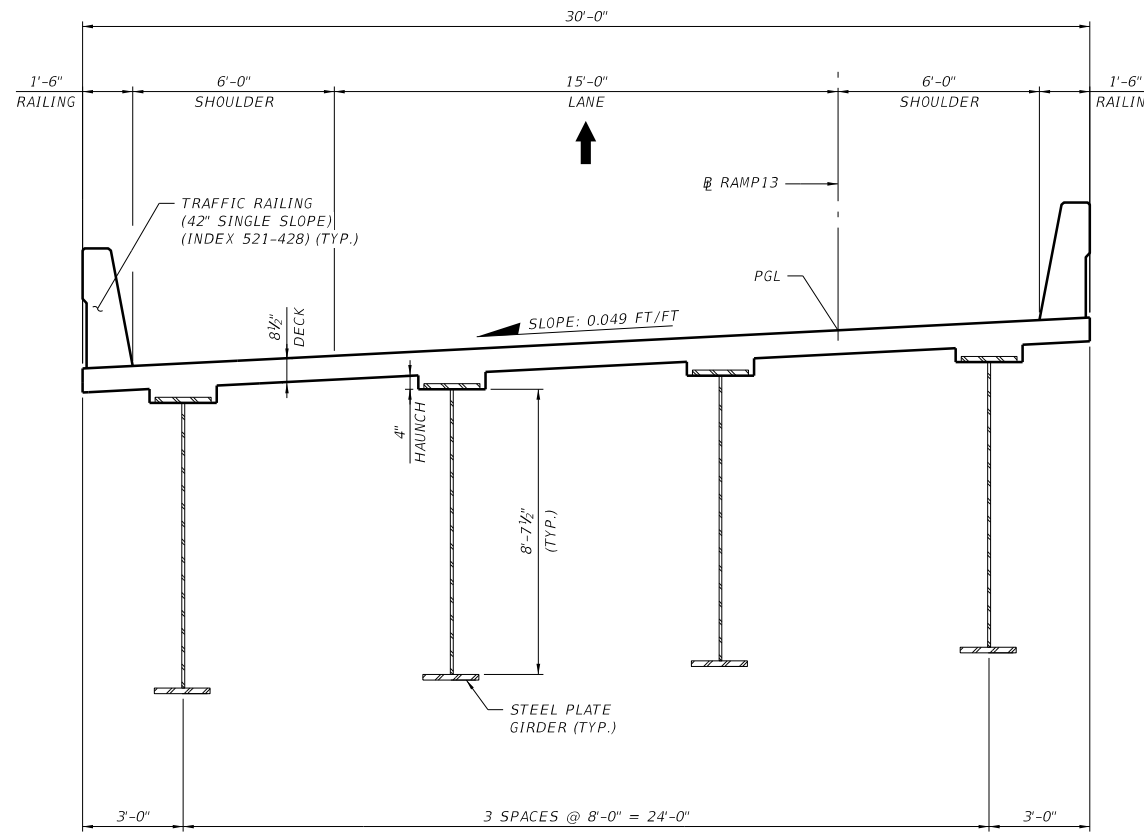
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 16



**TYPICAL SECTION
BRIDGE 11
RAMP 13 OVER SR429 AND SCHOFIELD RD.
STA. 1920+01.36 TO STA. 1930+07.89**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

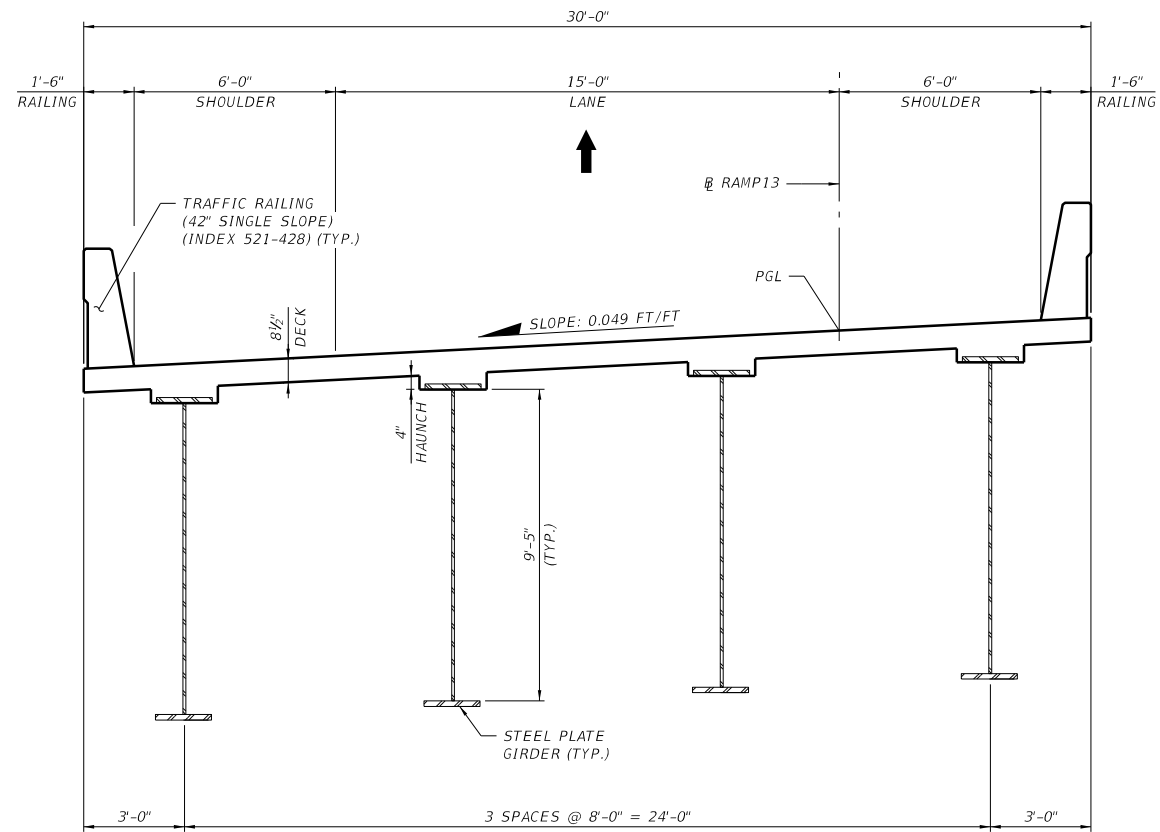
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 17



**TYPICAL SECTION
BRIDGE 12
RAMP 13 OVER EXISTING SR429 NB ENTRANCE RAMP
STA. 1933+86.94 TO STA. 1936+48.73**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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

NOT TO SCALE

SHEET NO.

18

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

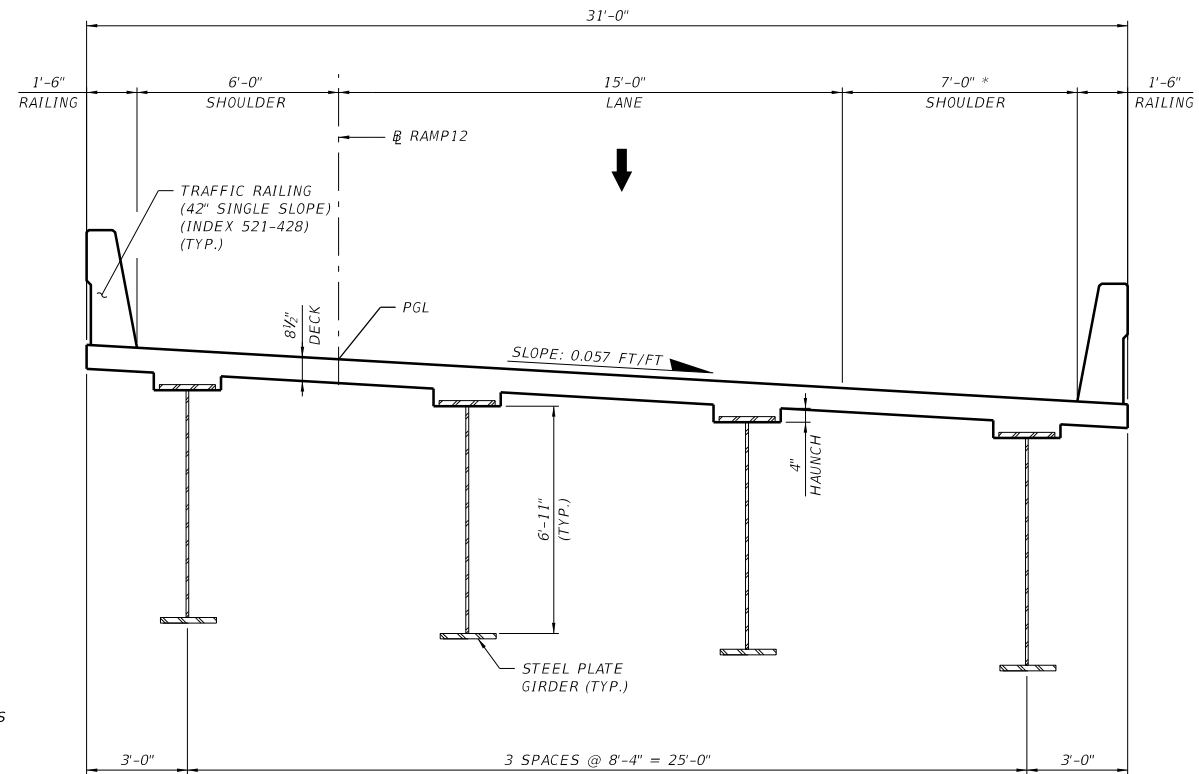
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 18



NOTES:
 * STOPPING SIGHT DISTANCE FOR SHOULDER WIDTHS BASED ON ASSUMED 5% MAXIMUM LONGITUDINAL GRADES

**TYPICAL SECTION
 BRIDGE 13
 RAMP 12 OVER SR429 SB ENTRANCE RAMP FROM SCHOFIELD RD.
 STA. 1819+81.74 TO STA. 1826+01.97**

TRAFFIC DATA

CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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

NOT TO SCALE

SHEET NO.

19

PROJECT CONTROLS

CONTEXT CLASSIFICATION

- () C1 : NATURAL
- () C2 : RURAL
- () C2T : RURAL TOWN
- () C3R : SUBURBAN RES.
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) FREEWAY/EXPWY.
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

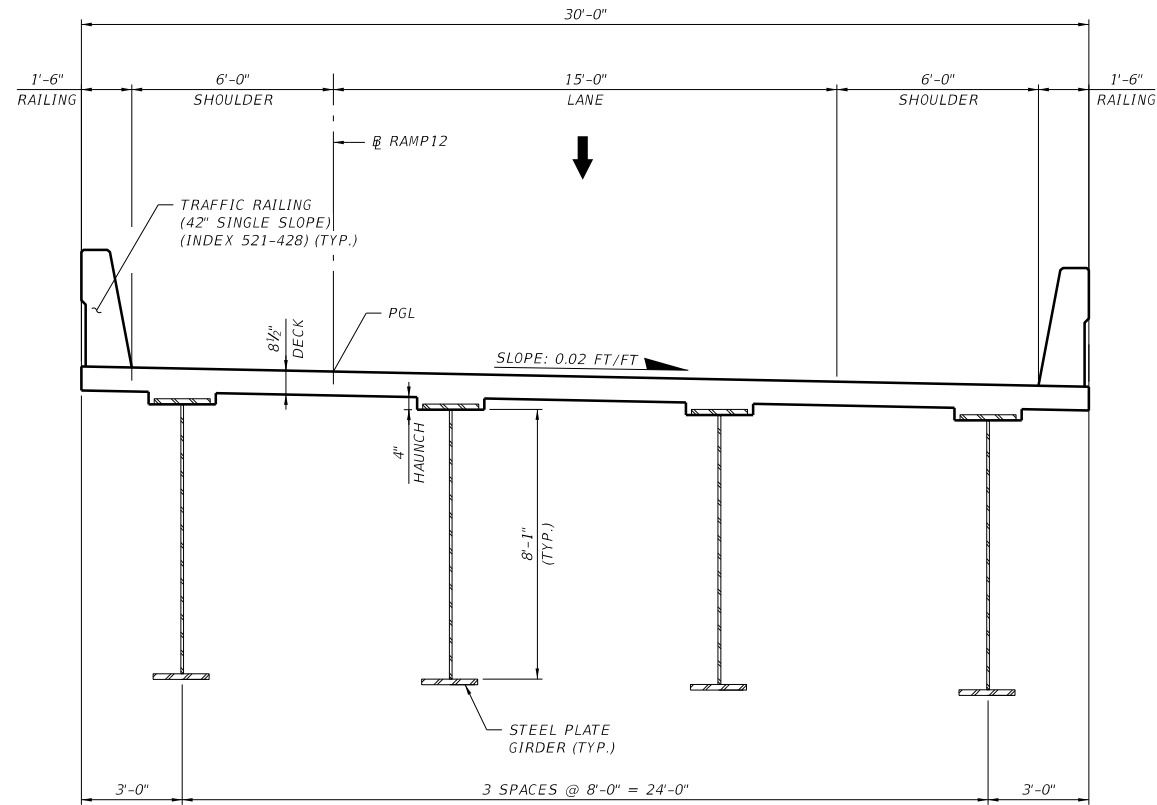
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 19



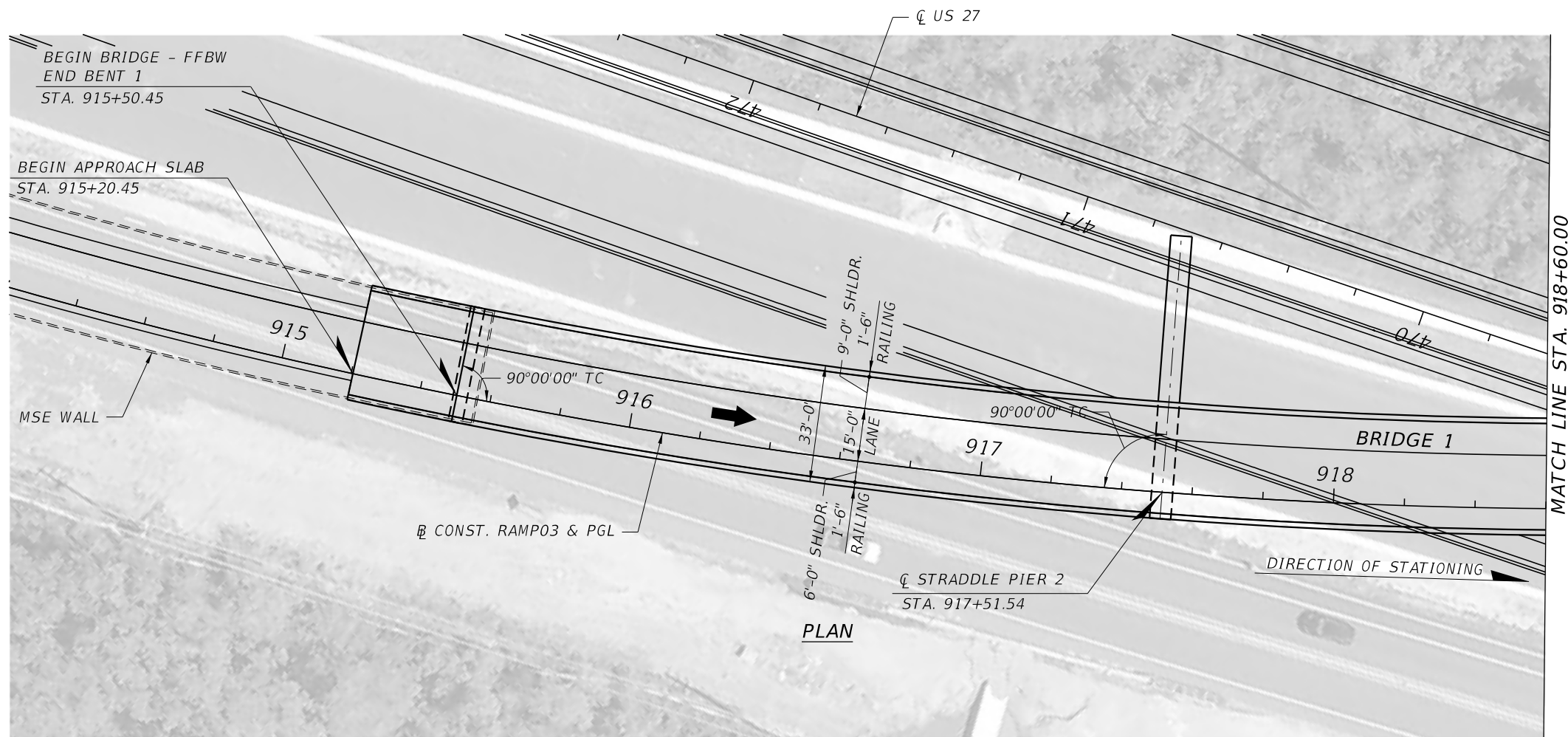
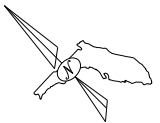
**TYPICAL SECTION
BRIDGE 14
RAMP 12 OVER EXISTING SR429 NB EXIT RAMP
STA. 1830+51.23 TO STA. 1832+77.86**

TRAFFIC DATA

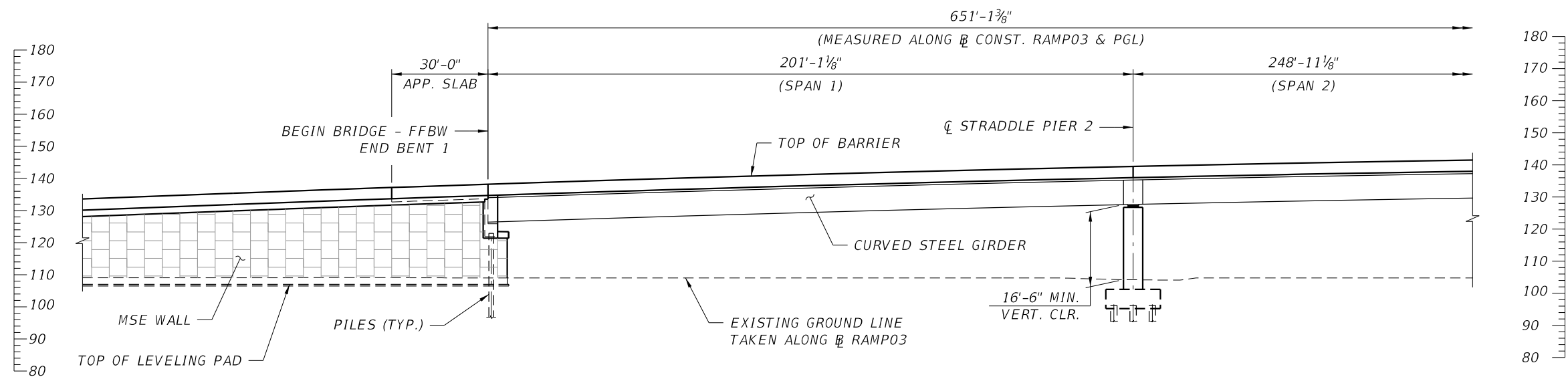
CURRENT YEAR = TBD AADT = TBD
 ESTIMATED OPENING YEAR = TBD AADT = TBD
 ESTIMATED DESIGN YEAR = TBD AADT = TBD
 K = TBD% D = TBD % T = TBD % (24 HOUR)
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

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Structural Plans



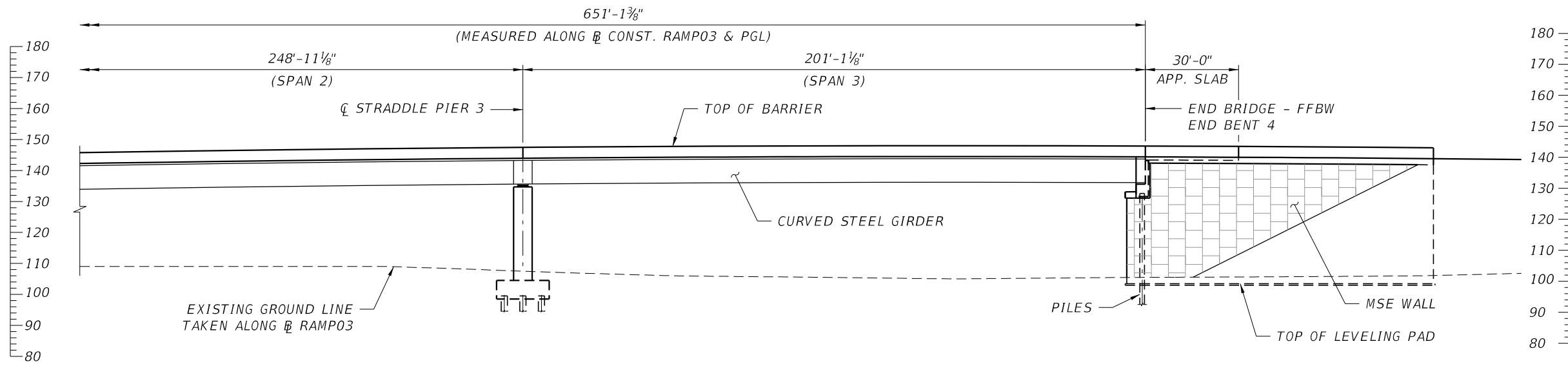
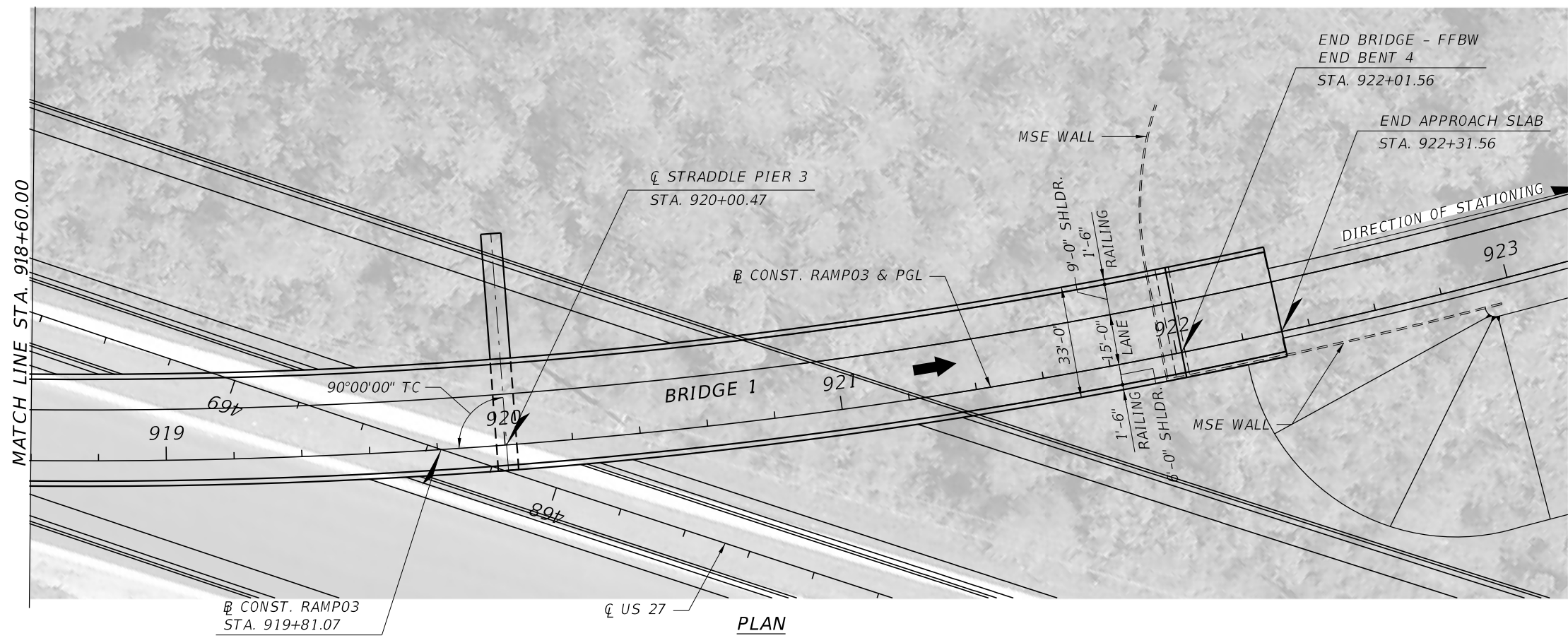
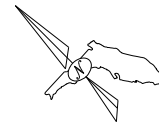
PLAN



ELEVATION

BRIDGE NO. 1 - US27 SB RAMP TO CONNECTOR EB OVER US27

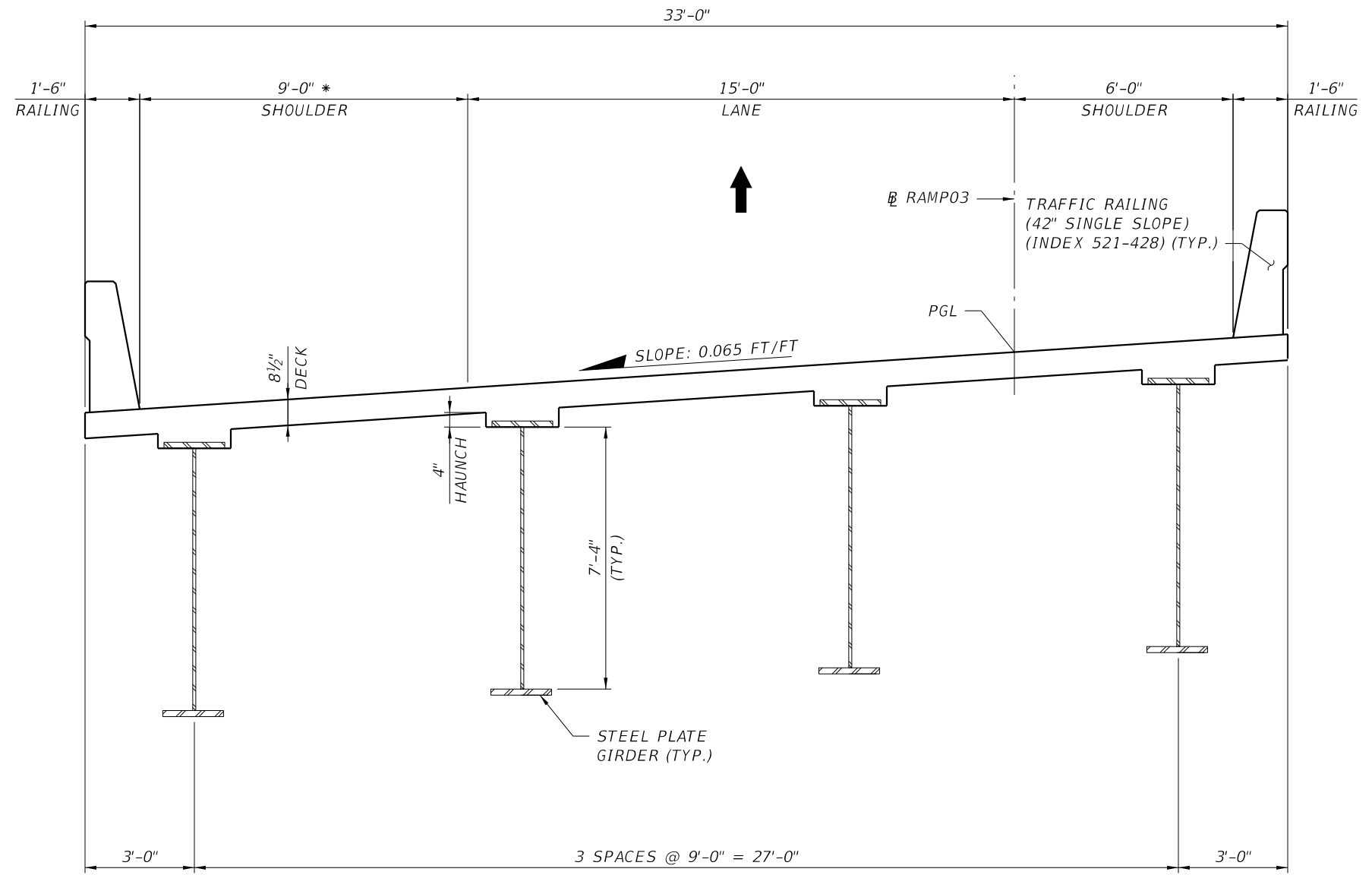
REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (1 OF 2) BRIDGE NO. 1	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



ELEVATION

BRIDGE NO. 1 - US27 SB RAMP TO CONNECTOR EB OVER US27

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (2 OF 2) BRIDGE NO. 1	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



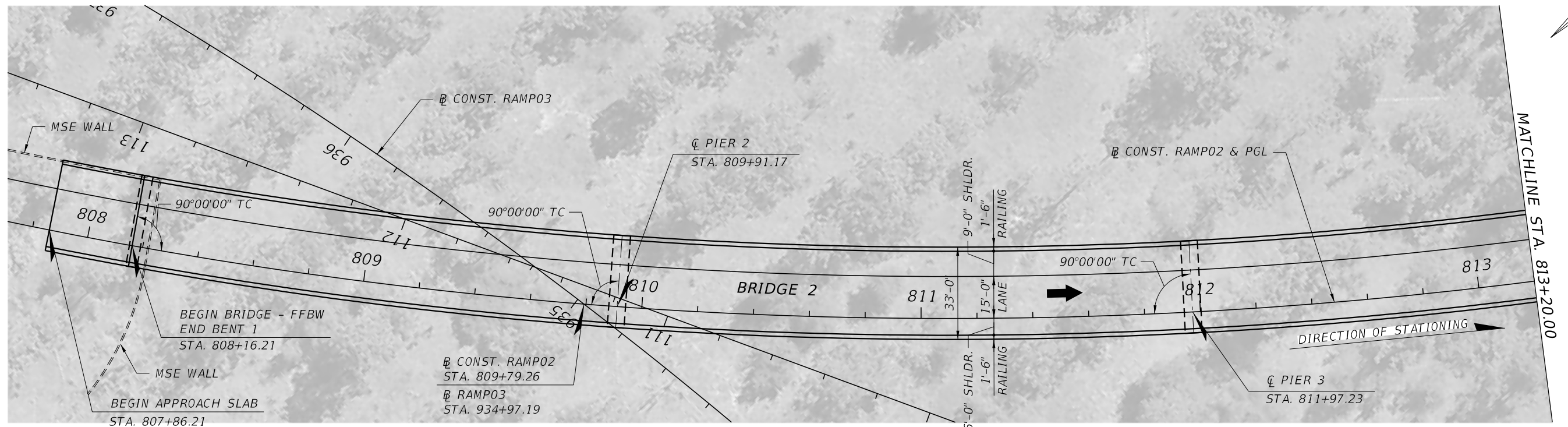
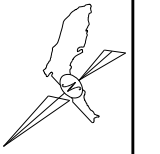
TYPICAL SECTION

BEGIN STA. 915+50.45
 END STA. 922+01.56

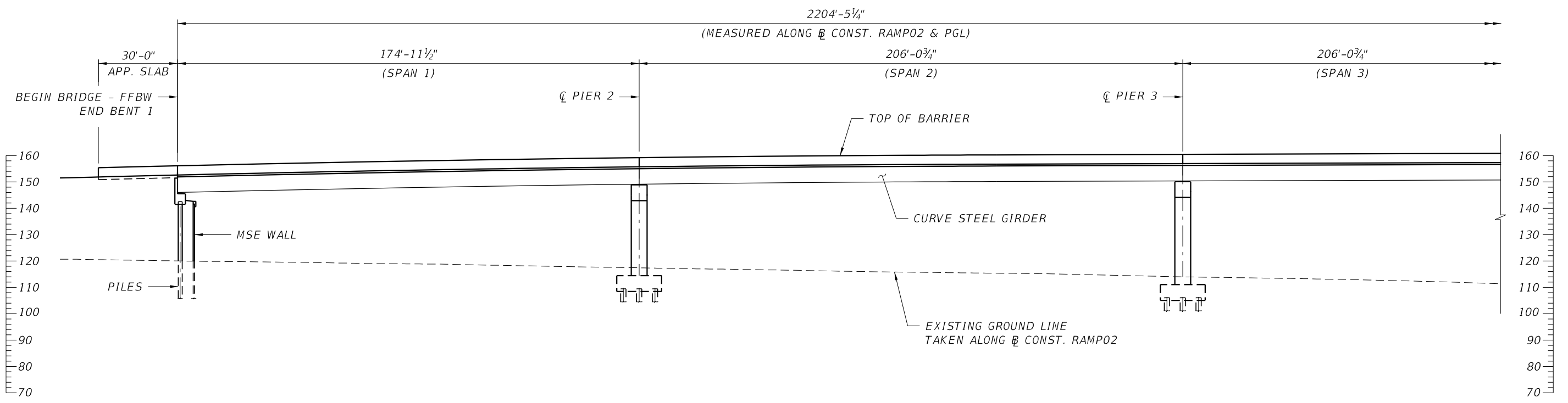
* SHOULDER WIDTH BASED ON SIGHT DISTANCE REQUIREMENT

BRIDGE NO. 1 - US27 SB RAMP TO CONNECTOR EB OVER US27

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 1	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



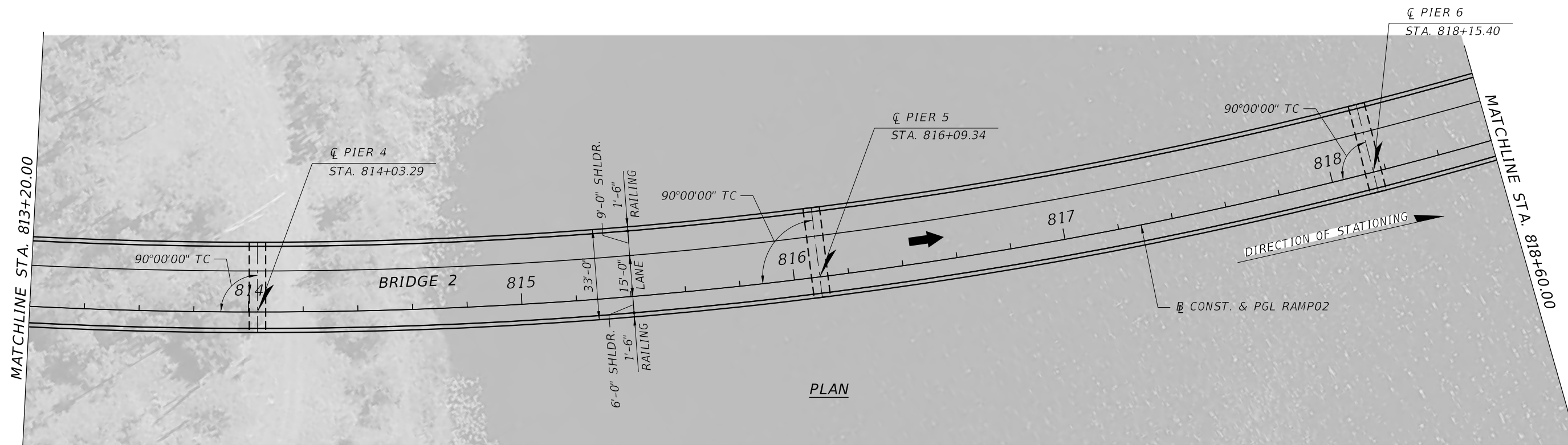
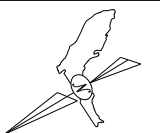
PLAN



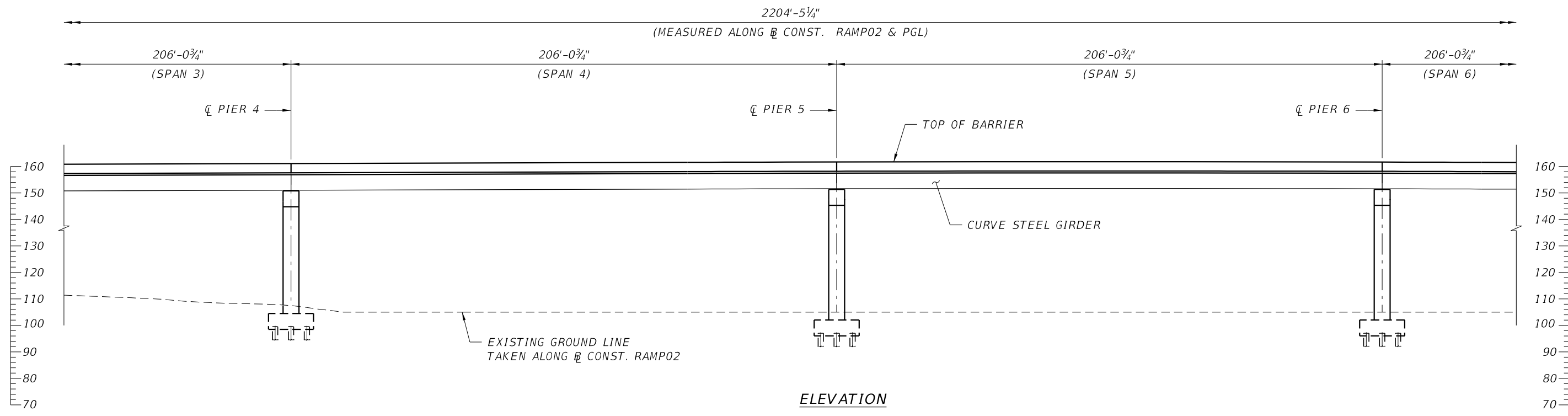
ELEVATION

BRIDGE NO. 2 - CONNECTOR WB RAMP TO US27 SB OVER US27 AND POND

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (1 OF 5) BRIDGE NO. 2	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



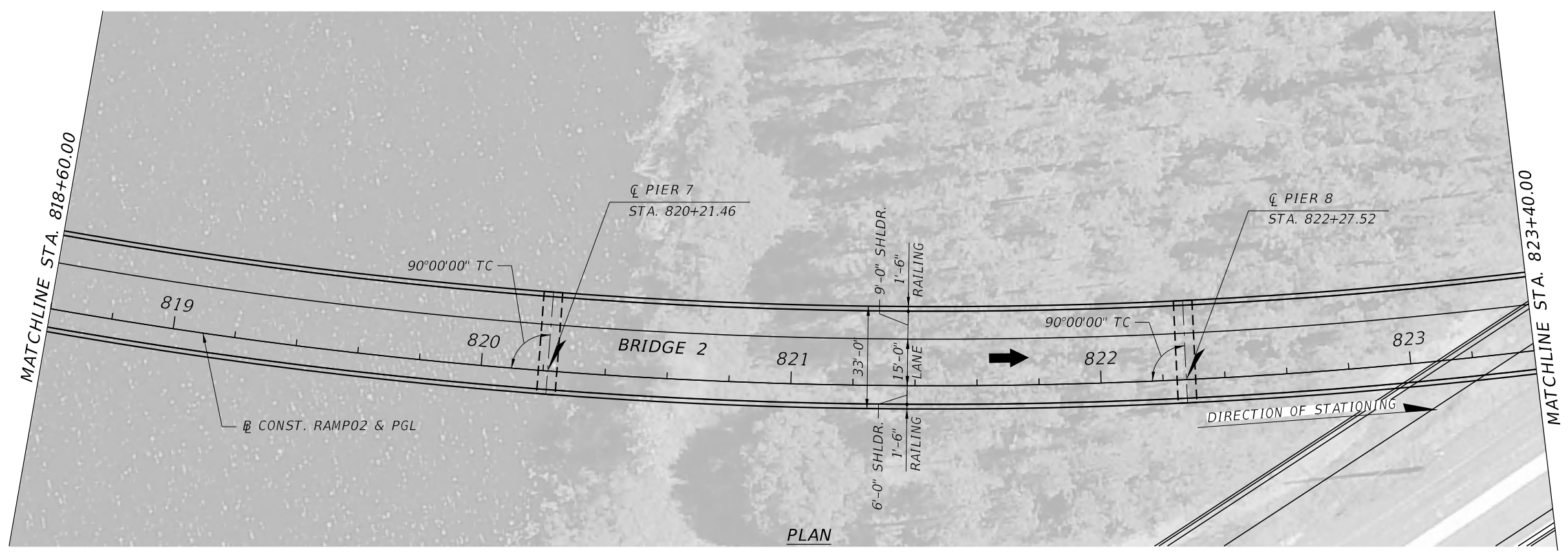
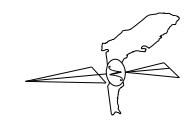
PLAN



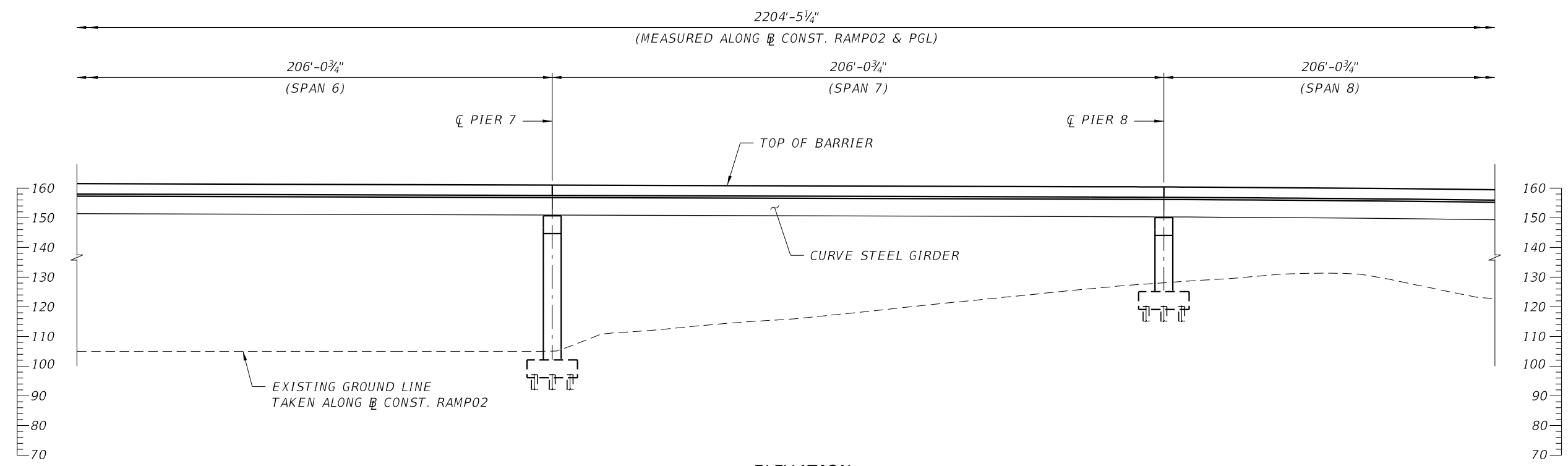
ELEVATION

BRIDGE NO. 2 - CONNECTOR WB RAMP TO US27 SB OVER US27 AND POND

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (2 OF 5) BRIDGE NO. 2	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



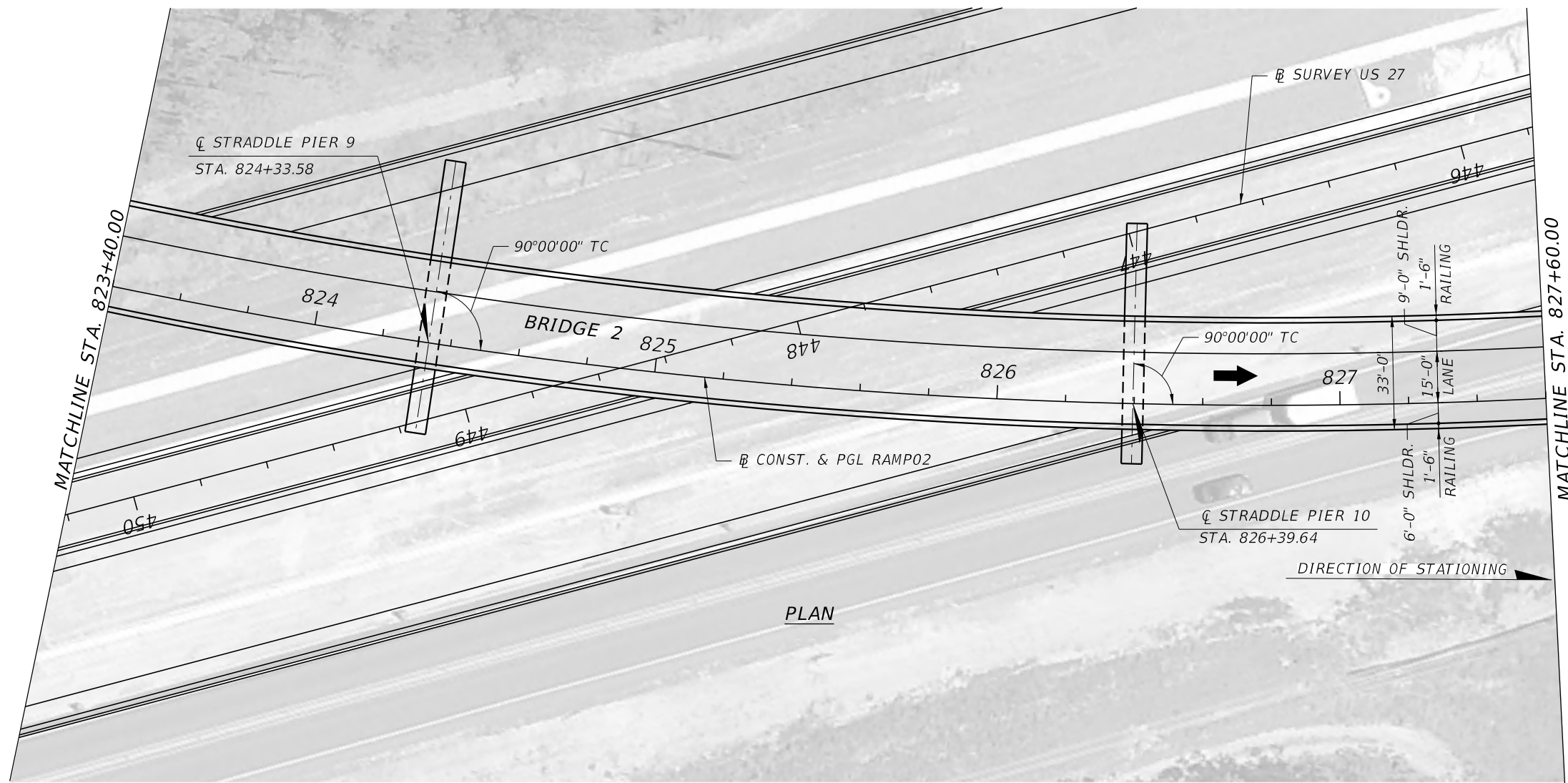
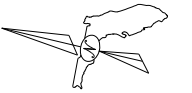
PLAN



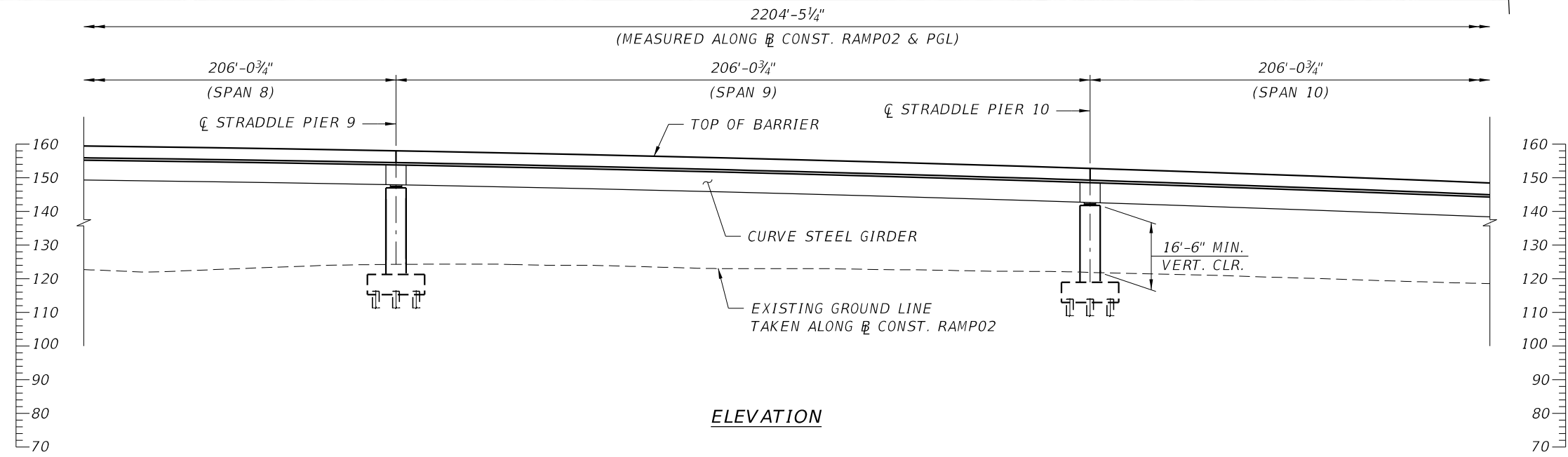
ELEVATION

BRIDGE NO. 2 - CONNECTOR WB RAMP TO US27 SB OVER US27 AND POND

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (3 OF 5) BRIDGE NO. 2	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



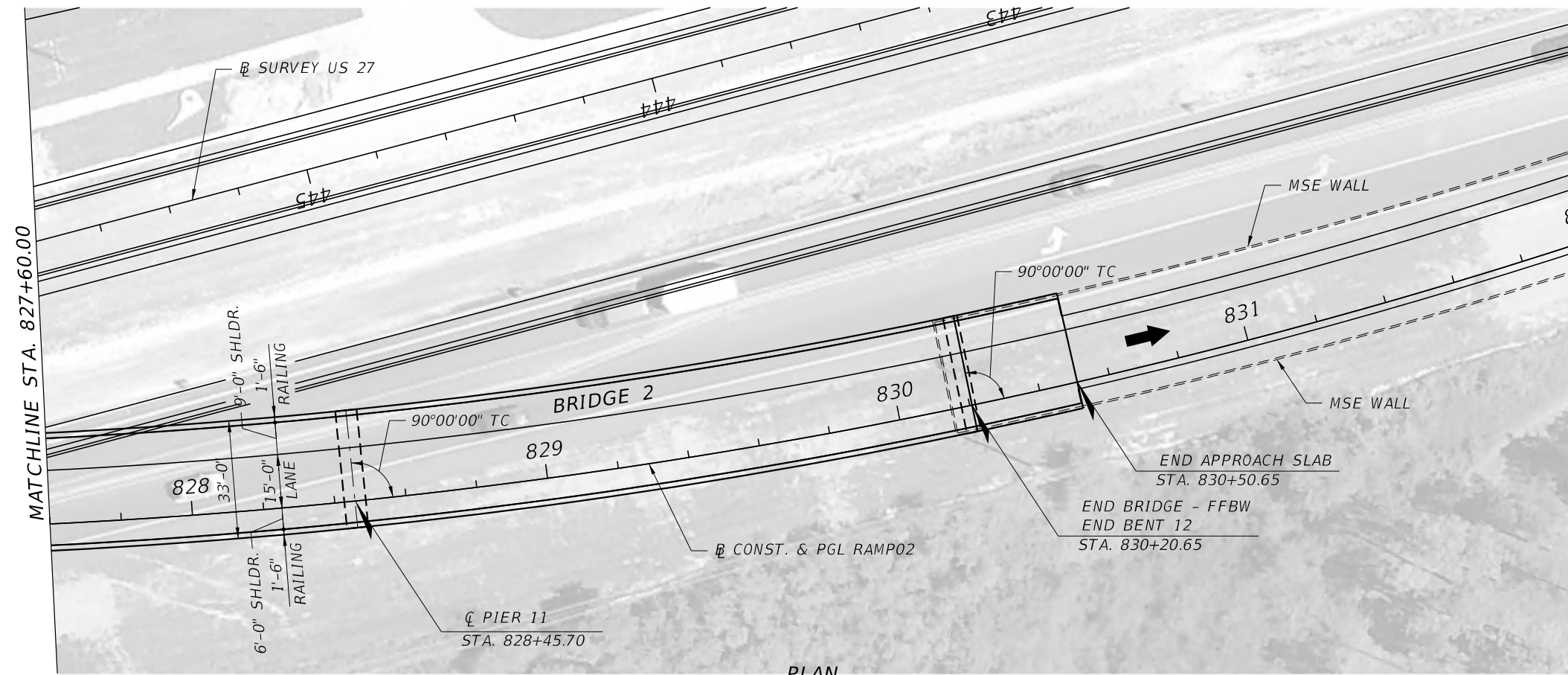
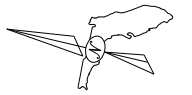
PLAN



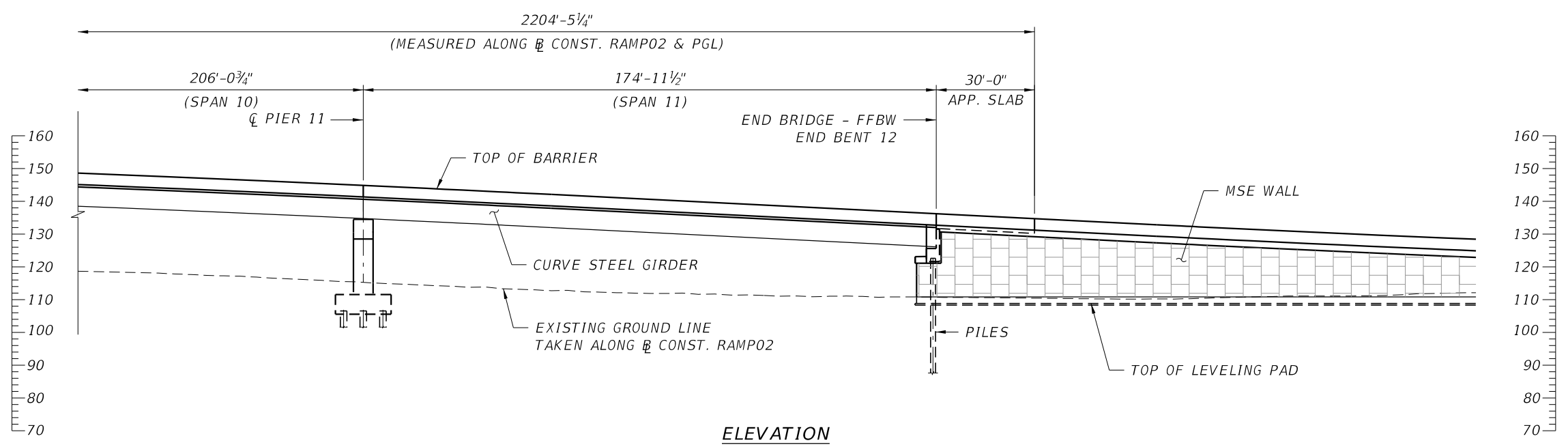
ELEVATION

BRIDGE NO. 2 - CONNECTOR WB RAMP TO US27 SB OVER US27 AND POND

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (4 OF 5) BRIDGE NO. 2	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



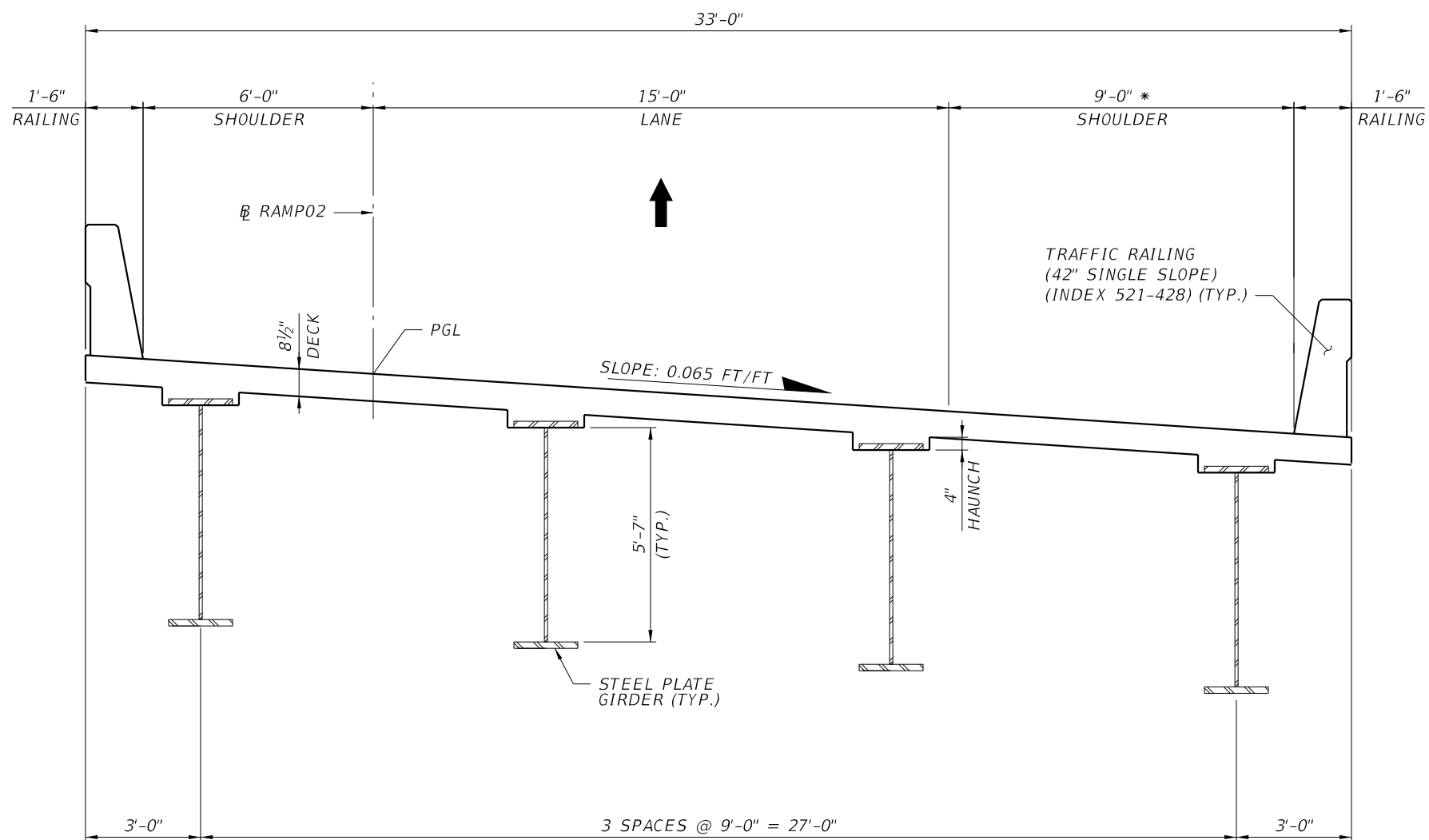
PLAN



ELEVATION

BRIDGE NO. 2 - CONNECTOR WB RAMP TO US27 SB OVER US27 AND POND

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (5 OF 5) BRIDGE NO. 2	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



TYPICAL SECTION

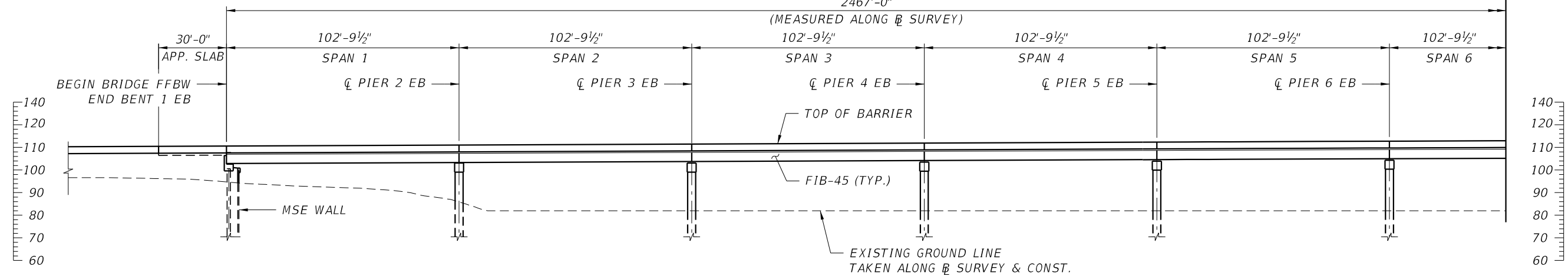
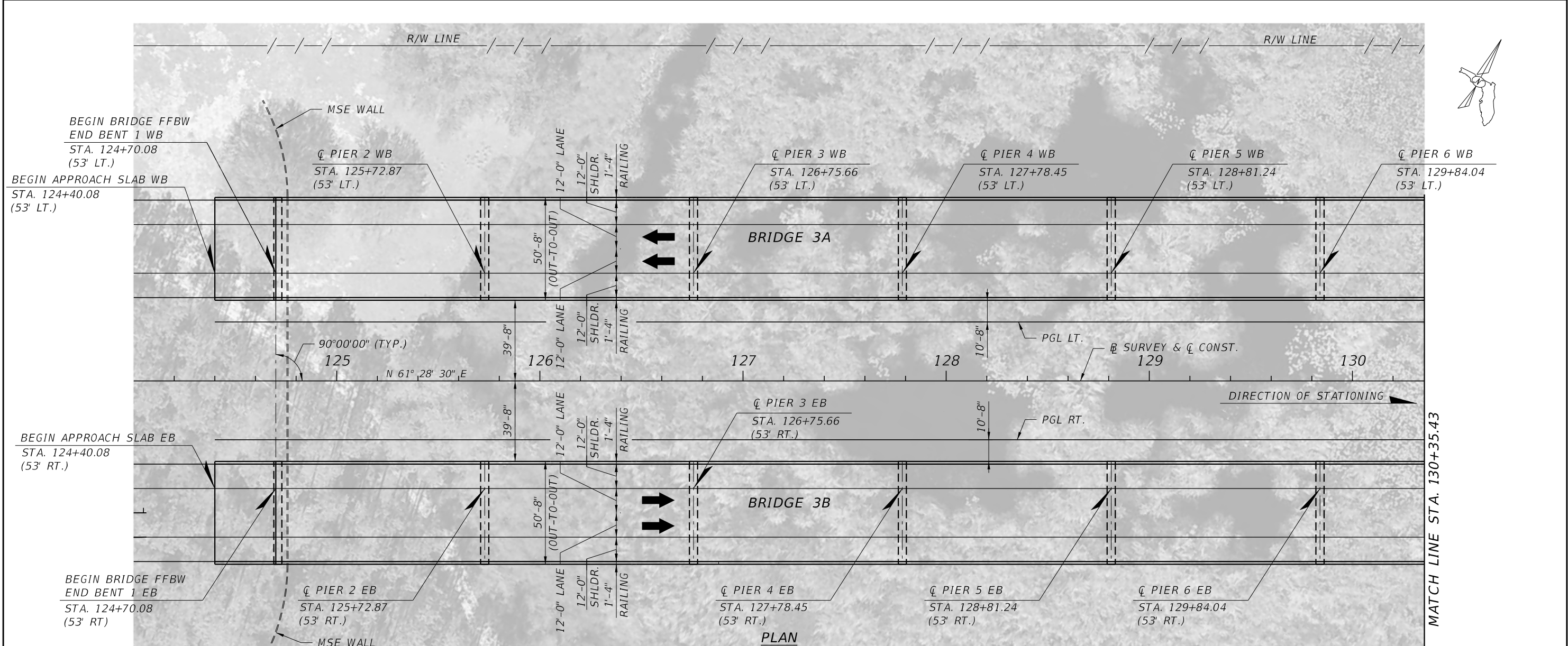
BEGIN STA. 808+16.21

END STA. 830+20.65

* SHOULDER WIDTH BASED ON SIGHT DISTANCE REQUIREMENT

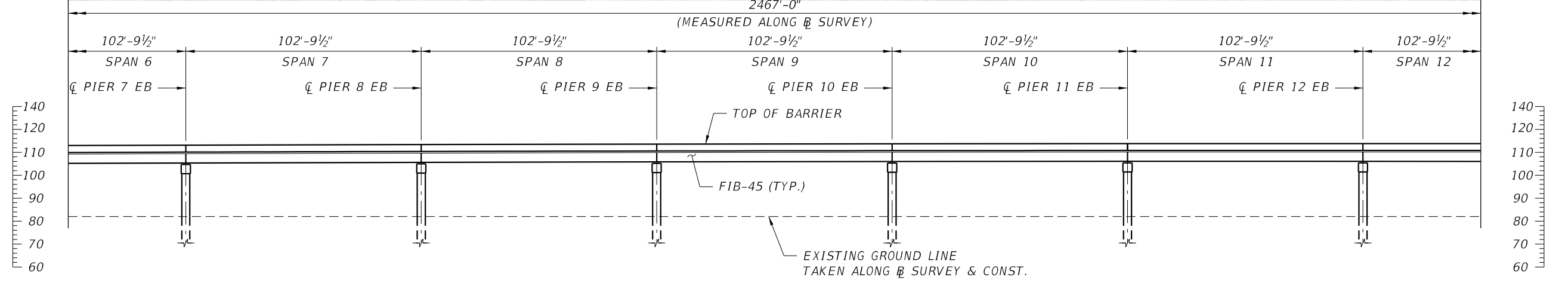
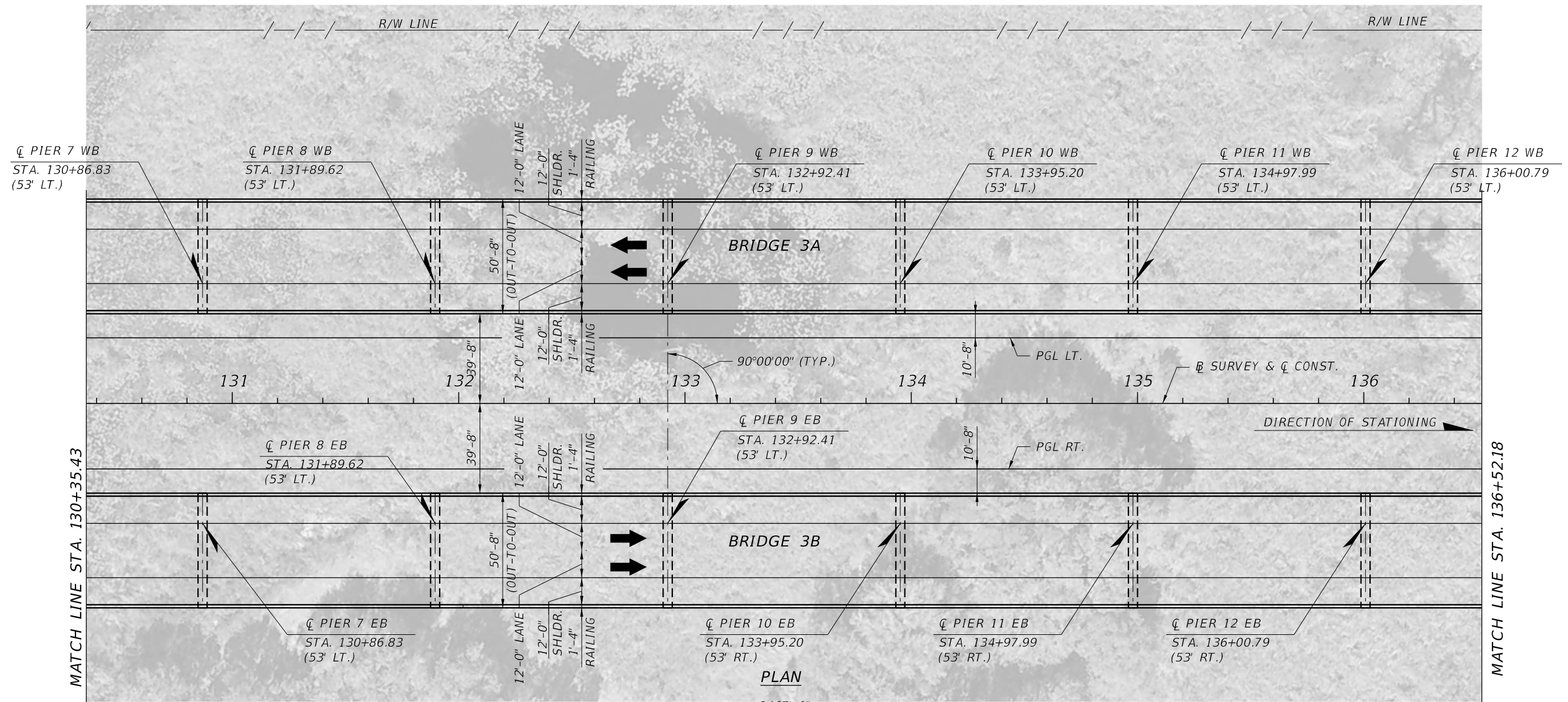
BRIDGE NO. 2 - CONNECTOR WB RAMP TO US27 SB OVER US27 AND POND

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 2	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



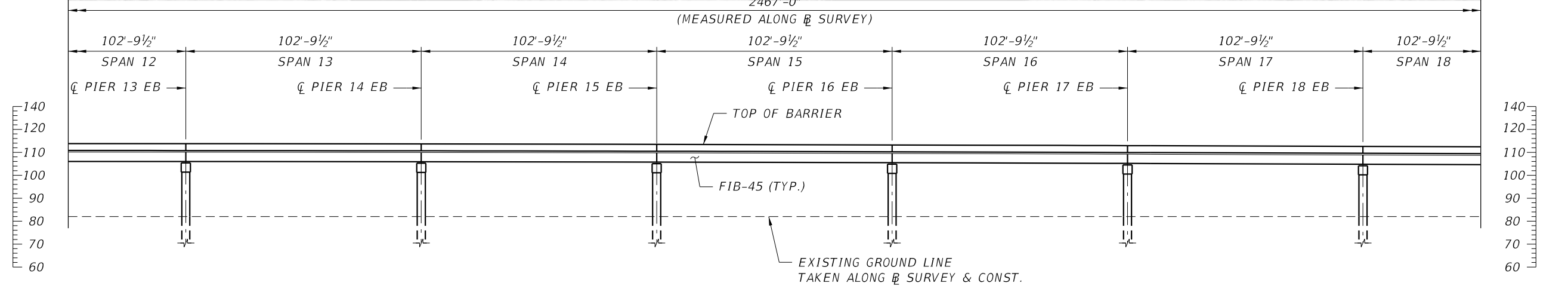
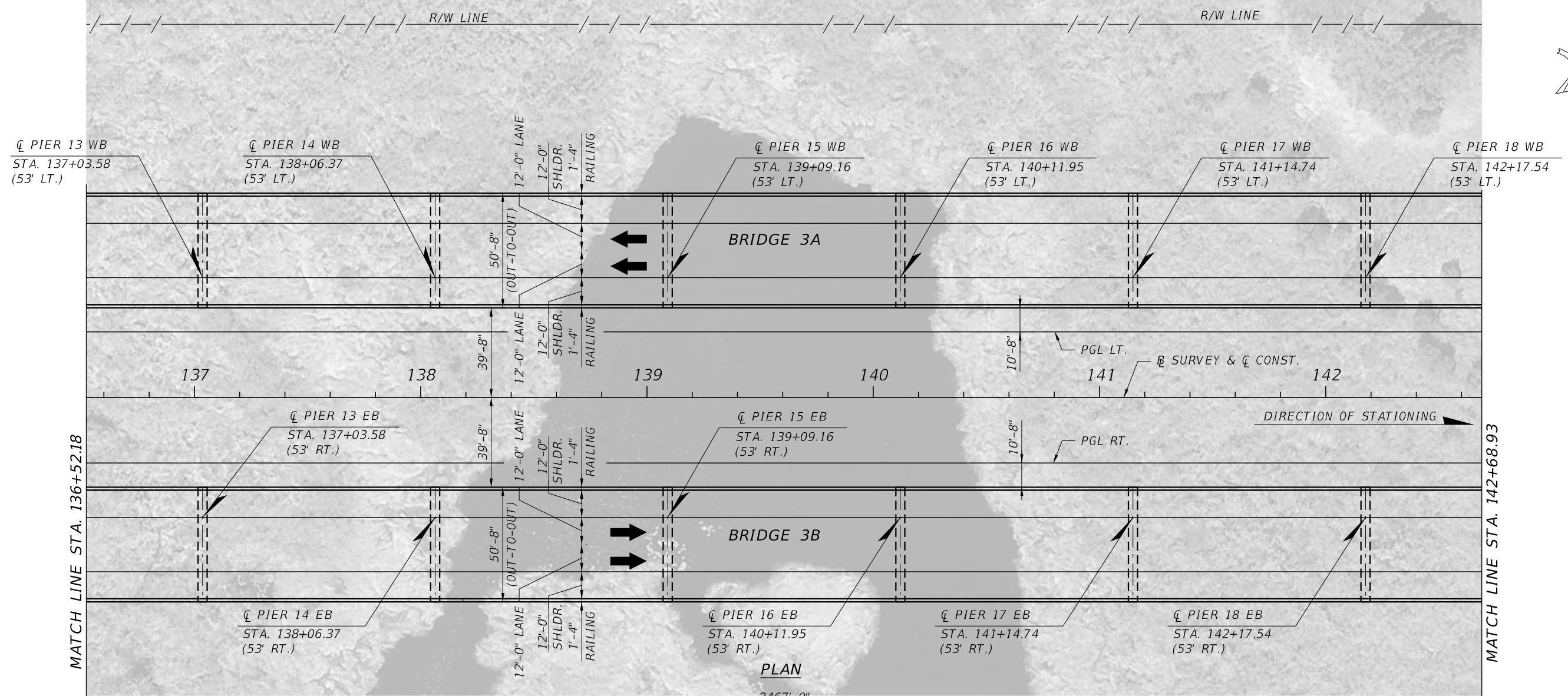
BRIDGE NO. 3A & 3B - CONNECTOR WB & EB OVER SAWGRASS LAKE WETLAND AREA

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (1 OF 4) BRIDGE NO. 3A & 3B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



BRIDGE NO. 3A & 3B - CONNECTOR WB & EB OVER SAWGRASS LAKE WETLAND AREA

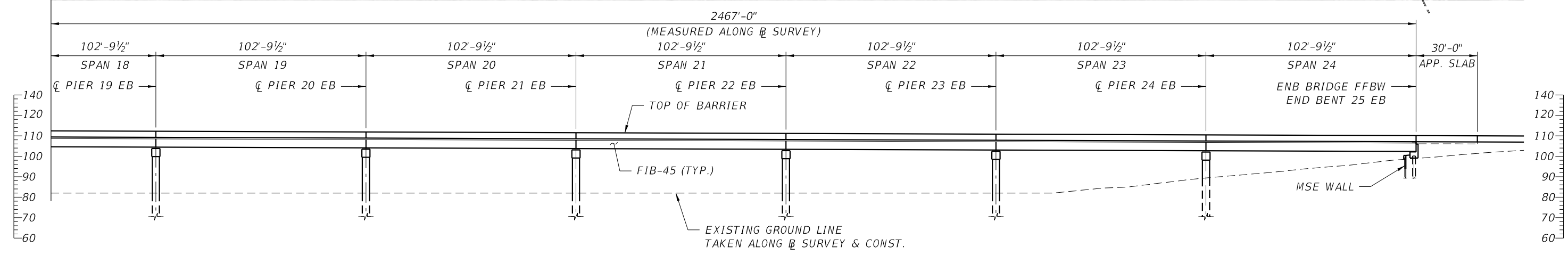
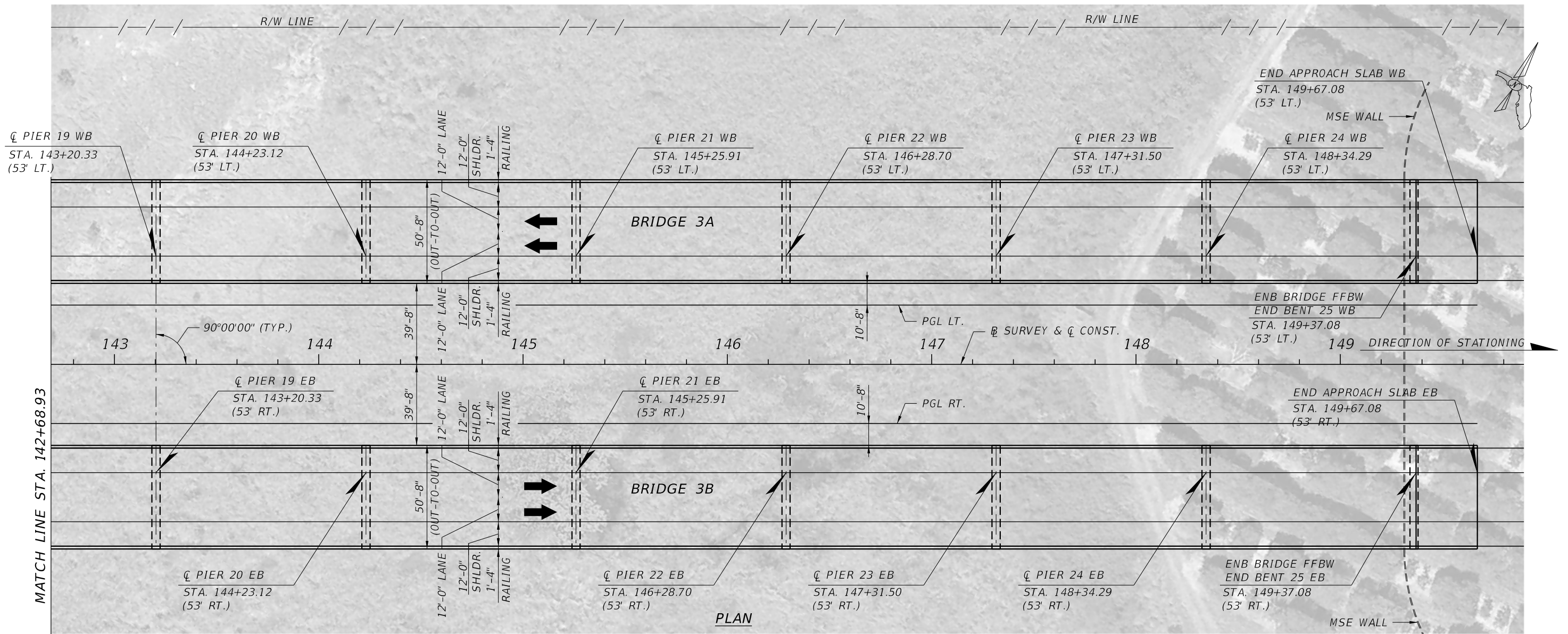
REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (2 OF 4) BRIDGE NO. 3A & 3B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



ELEVATION
(BRIDGE 3B SHOWN, BRIDGE 3A SIMILAR)

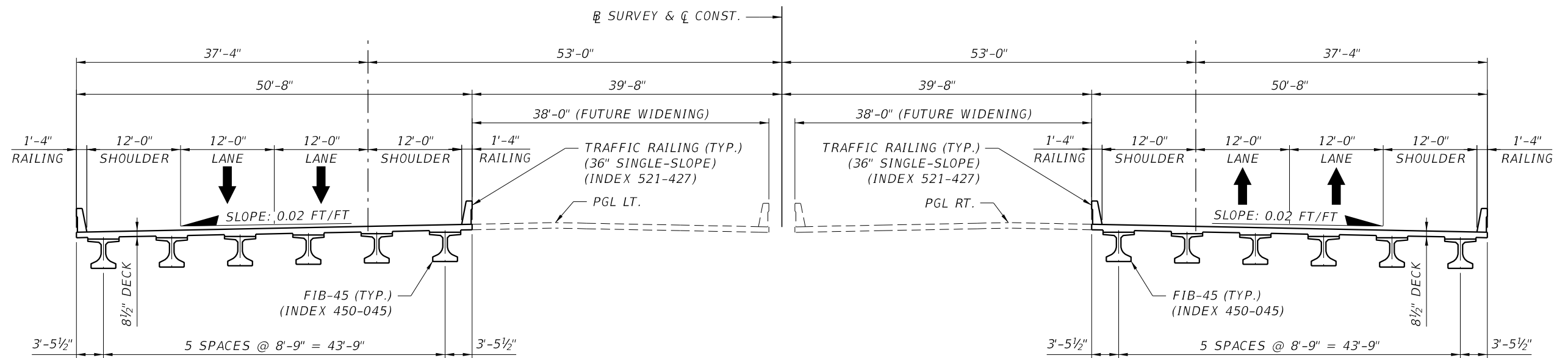
BRIDGE NO. 3A & 3B - CONNECTOR WB & EB OVER SAWGRASS LAKE WETLAND AREA

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (3 OF 4) BRIDGE NO. 3A & 3B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



BRIDGE NO. 3A & 3B - CONNECTOR WB & EB OVER SAWGRASS LAKE WETLAND AREA

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (4 OF 4) BRIDGE NO. 3A & 3B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



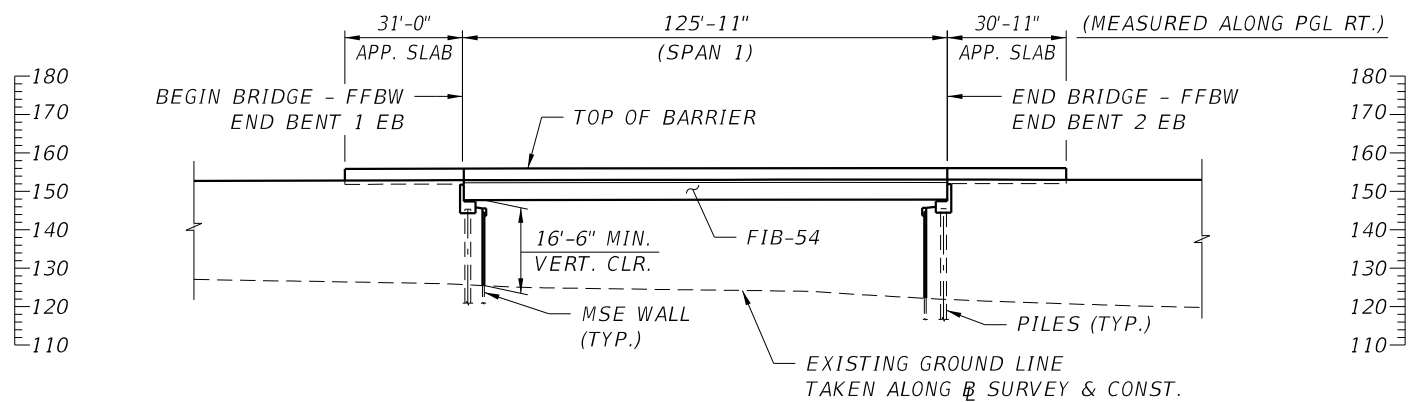
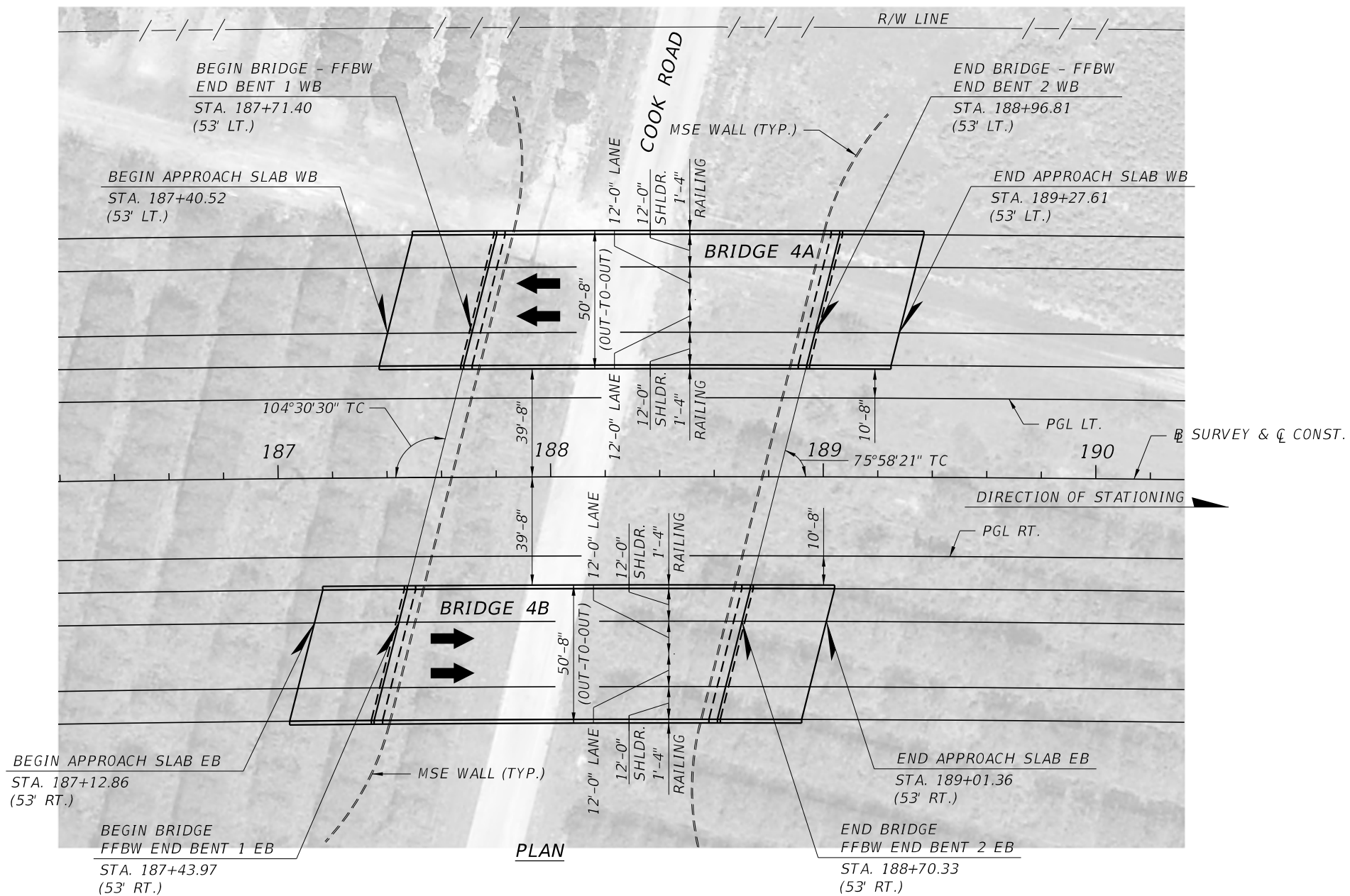
WESTBOUND
BRIDGE 3A

EASTBOUND
BRIDGE 3B

TYPICAL SECTION
BEGIN STA. 124+70.08
END STA. 149+37.08

BRIDGE NO. 3A & 3B - CONNECTOR WB & EB OVER SAWGRASS LAKE WETLAND AREA

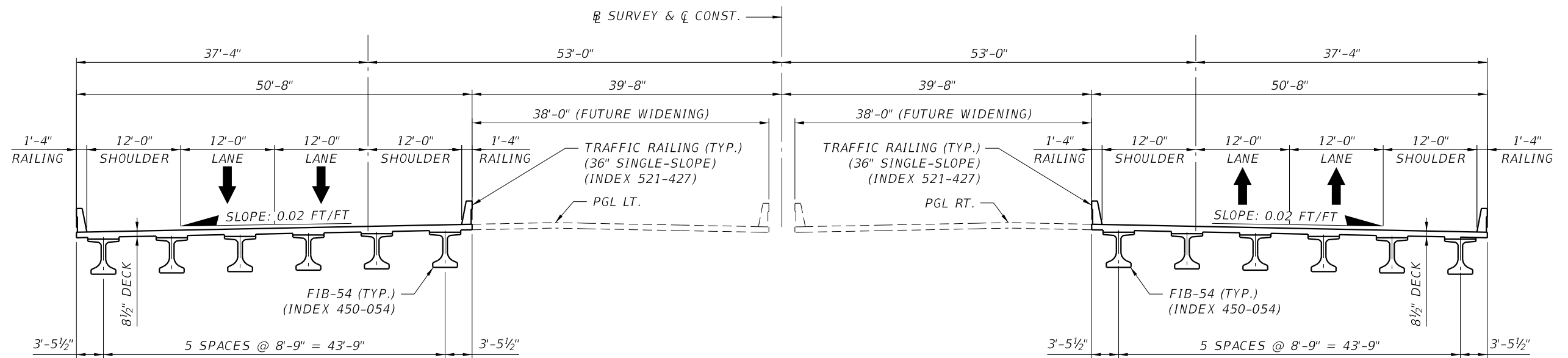
REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 3A & 3B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



ELEVATION
(BRIDGE 4B SHOWN, BRIDGE 4A SIMILAR)

BRIDGE NO. 4A & 4B - CONNECTOR WB & EB OVER COOK ROAD

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 4A & 4B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



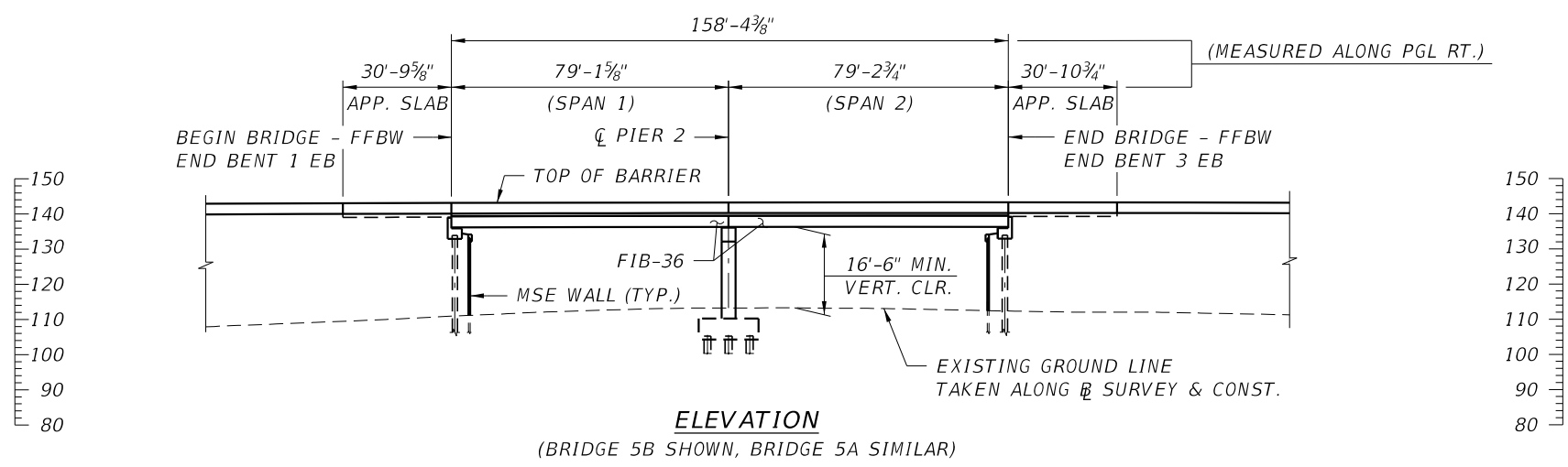
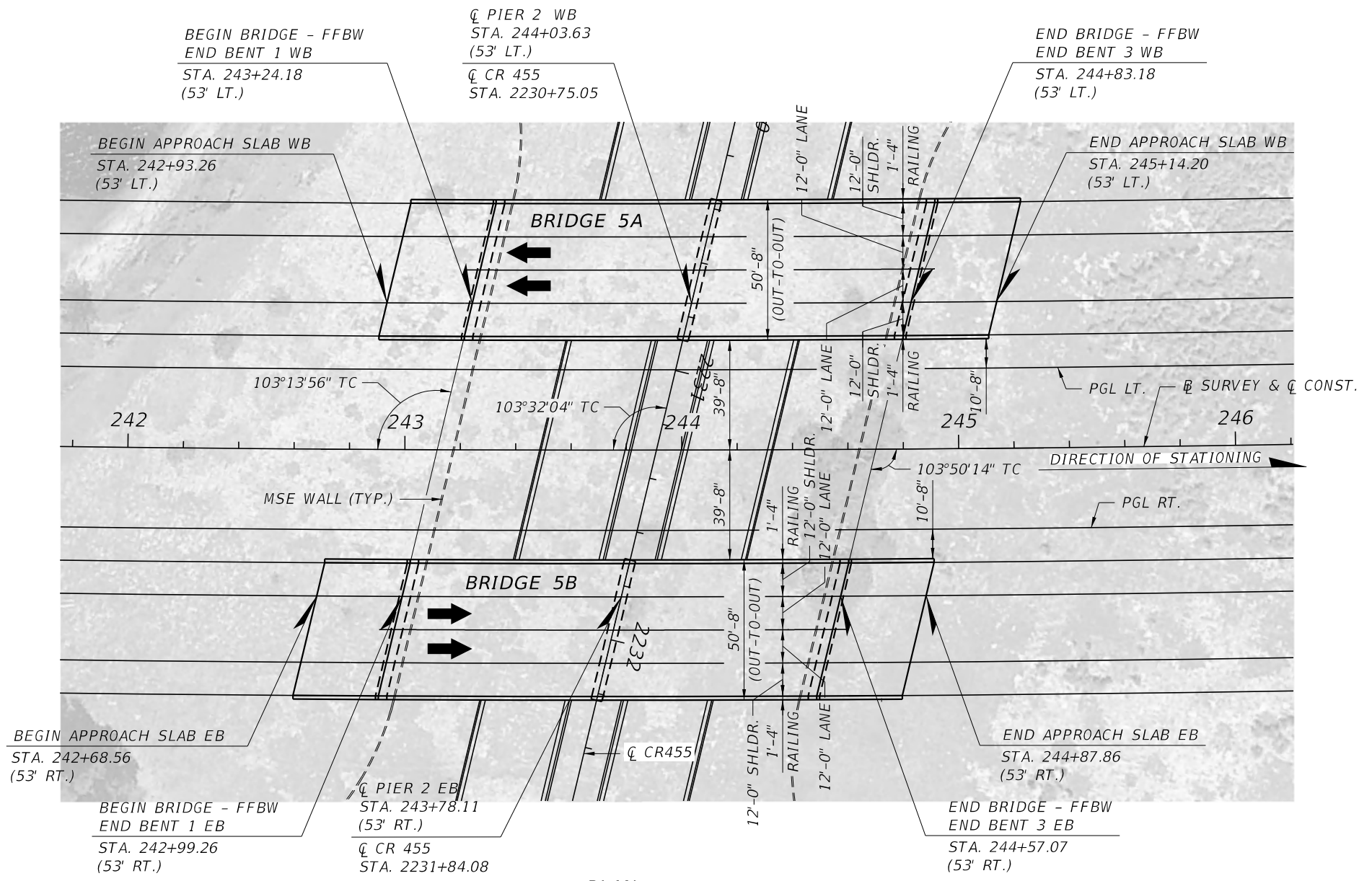
WESTBOUND
BRIDGE 4A
 BEGIN STA. 187+71.40
 END STA. 188+96.81

EASTBOUND
BRIDGE 4B
 BEGIN STA. 187+43.97
 END STA. 188+70.33

TYPICAL SECTION

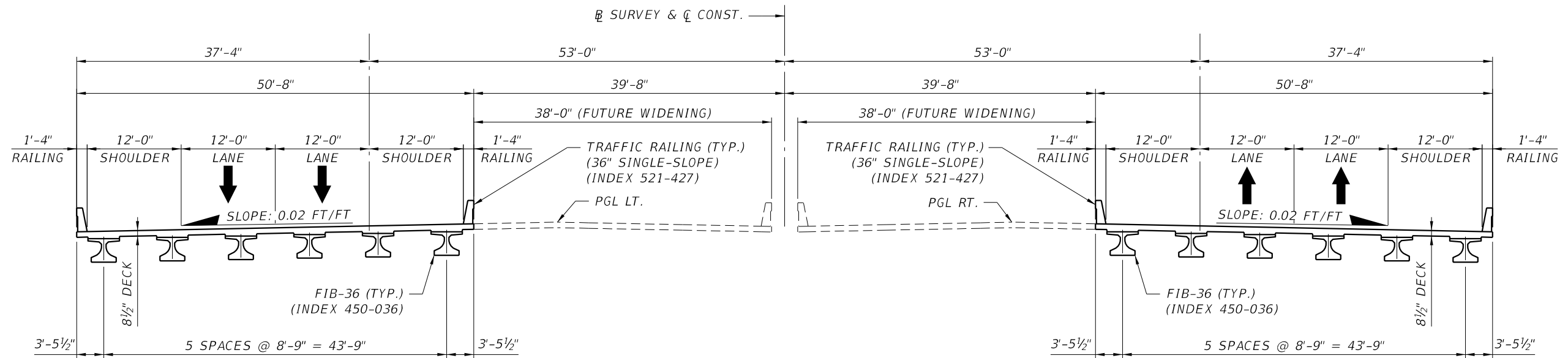
BRIDGE NO. 4A & 4B - CONNECTOR WB & EB OVER COOK ROAD

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 4A & 4B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



BRIDGE NO. 5A & 5B - CONNECTOR WB & EB OVER CR 455

REVISIONS		REVISIONS		GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 5A & 5B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



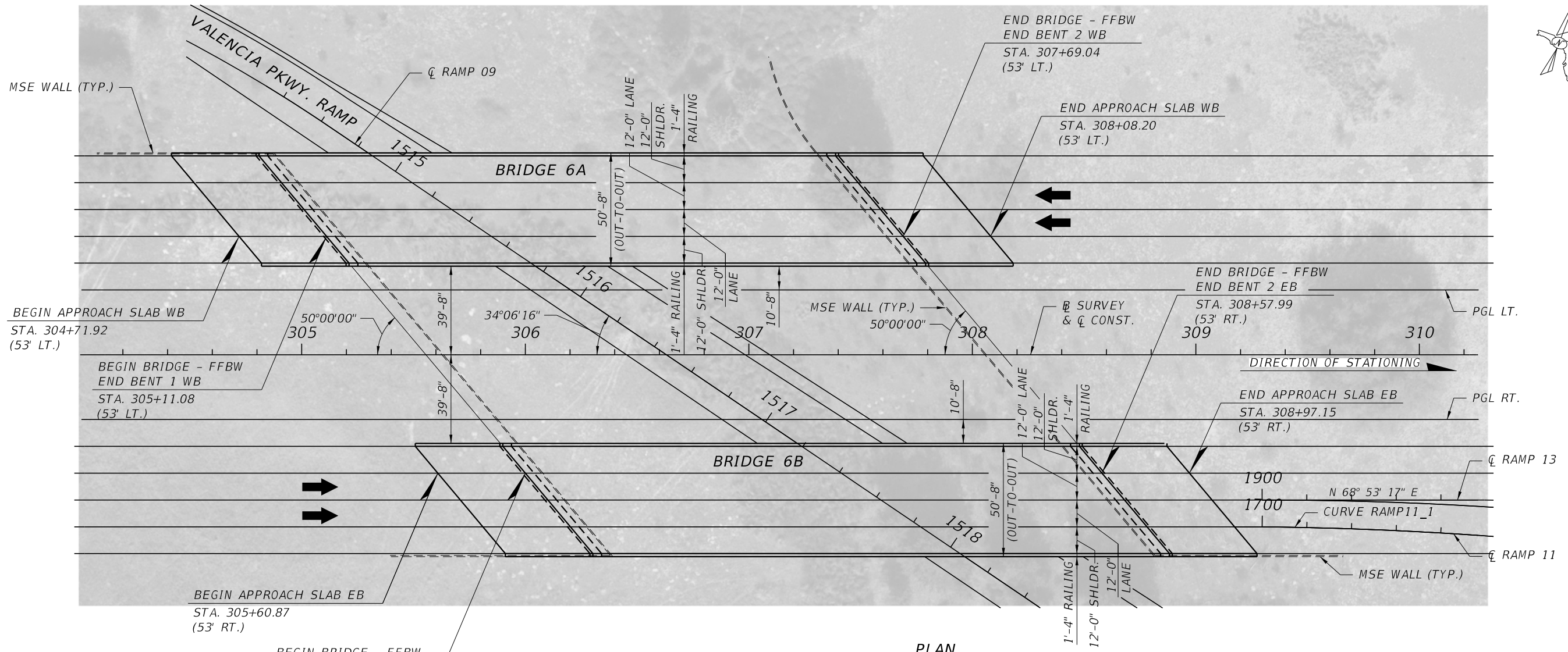
WESTBOUND
BRIDGE 5A
 BEGIN STA. 243+24.18
 END STA. 244+83.18

EASTBOUND
BRIDGE 5B
 BEGIN STA. 242+99.26
 END STA. 244+57.07

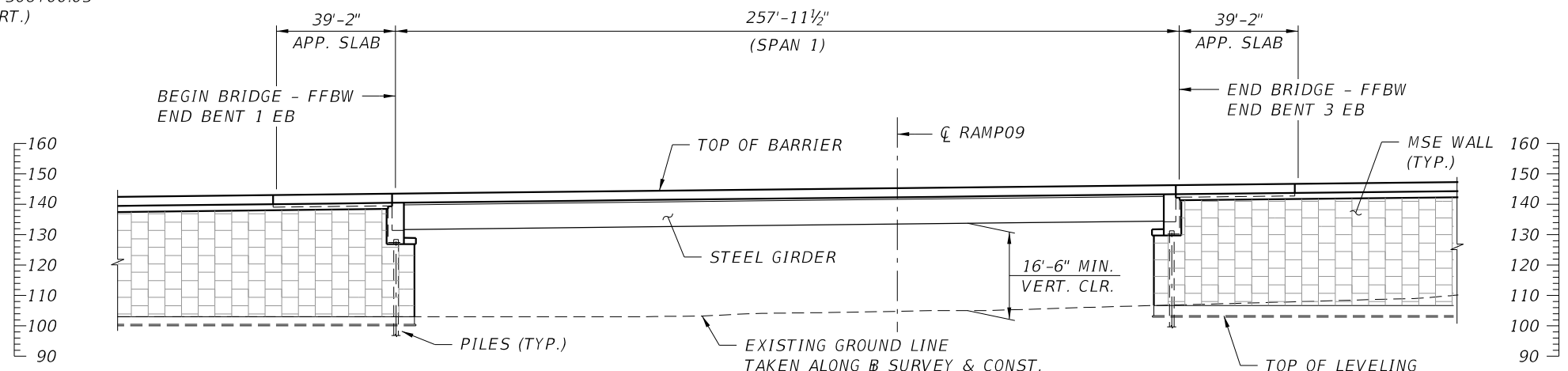
TYPICAL SECTION

BRIDGE NO. 5A & 5B - CONNECTOR WB & EB OVER CR 455

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 5A & 5B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



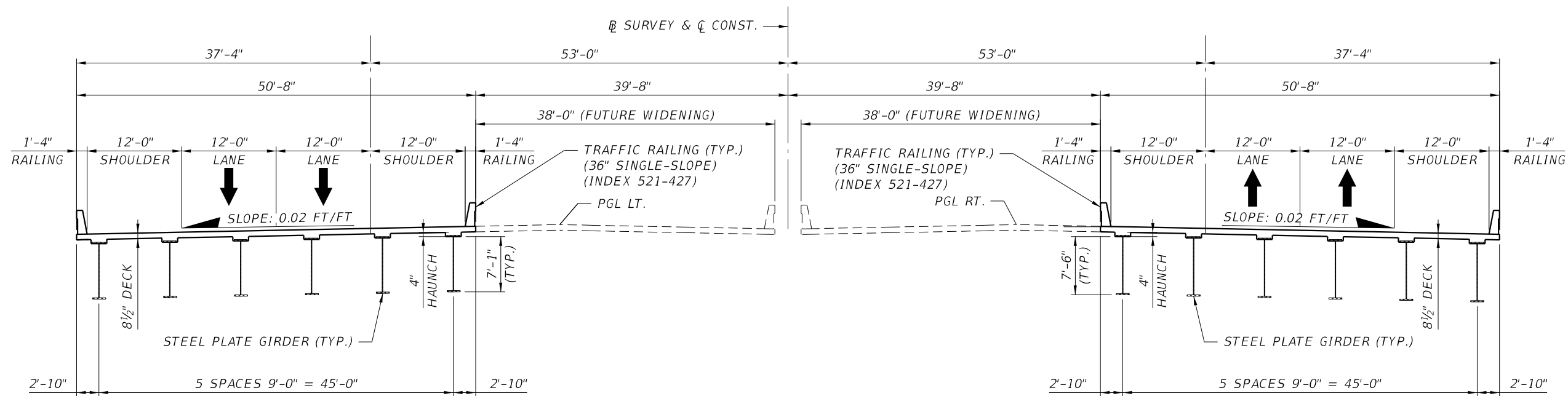
PLAN



ELEVATION
(BRIDGE 6B SHOWN, BRIDGE 6A SIMILAR)

BRIDGE NO. 6A & 6B - CONNECTOR WB & EB OVER VALENCIA PARKWAY RAMP

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 6A & 6B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



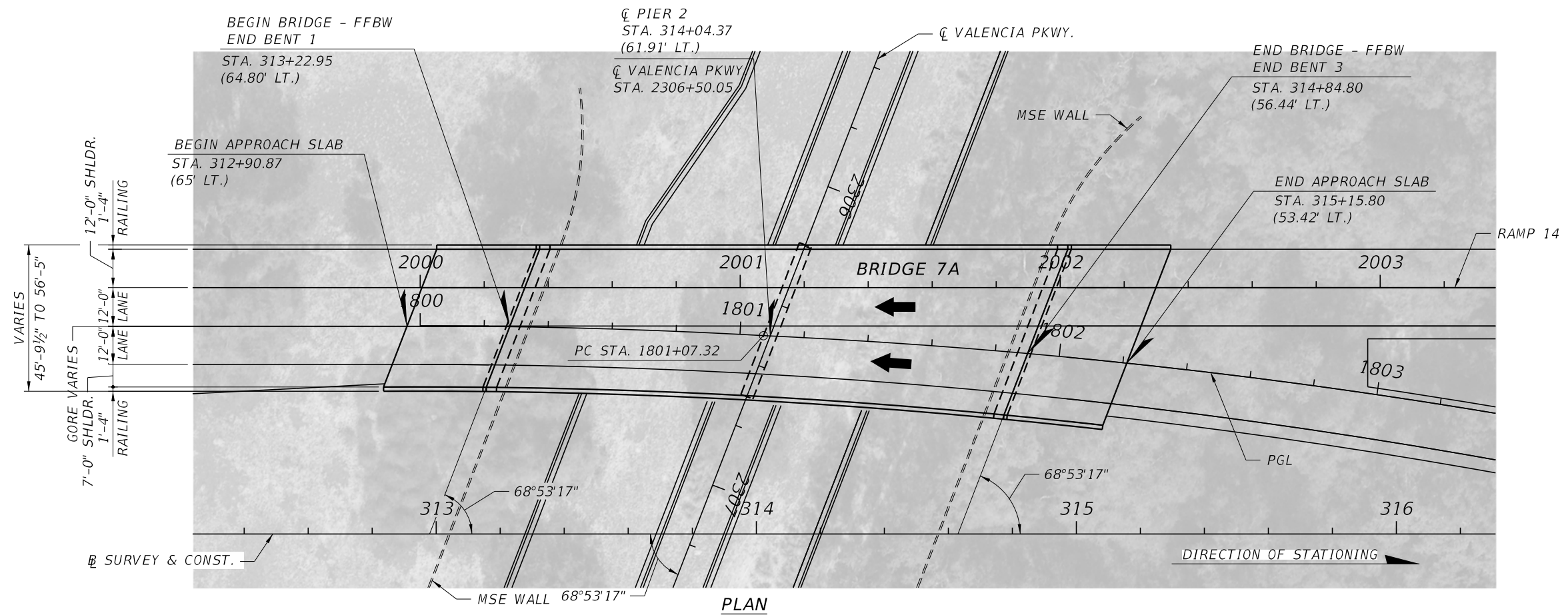
WESTBOUND
BRIDGE 6A
 BEGIN STA. 304+82.71
 END STA. 306+85.08

TYPICAL SECTION

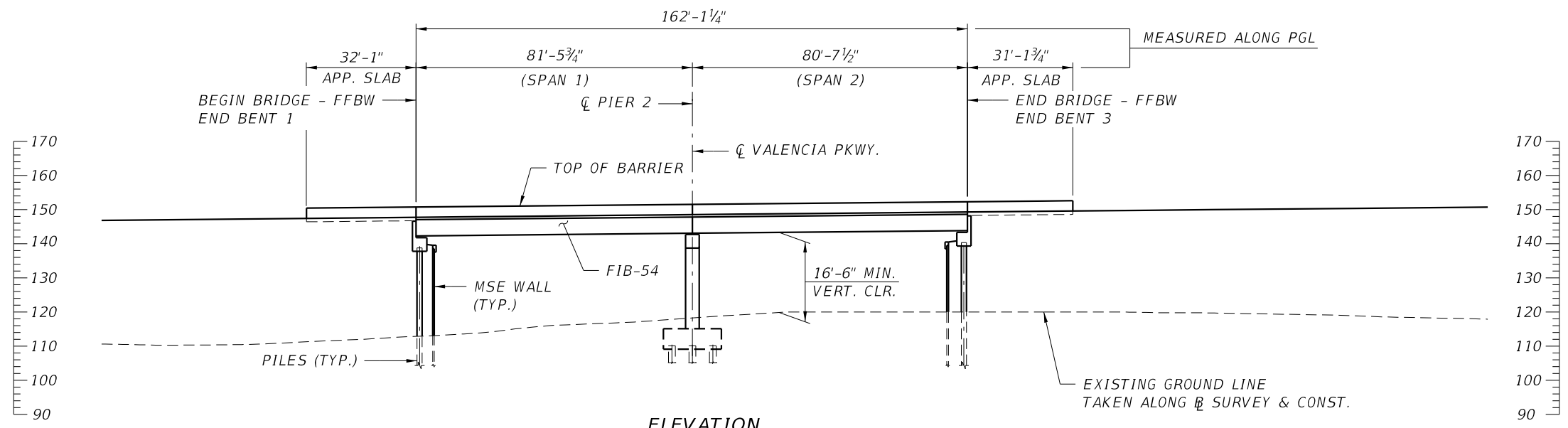
EASTBOUND
BRIDGE 6B
 BEGIN STA. 306+74.88
 END STA. 308+86.36

BRIDGE NO. 6A & 6B - CONNECTOR WB & EB OVER VALENCIA PARKWAY RAMP

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 6A & 6B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



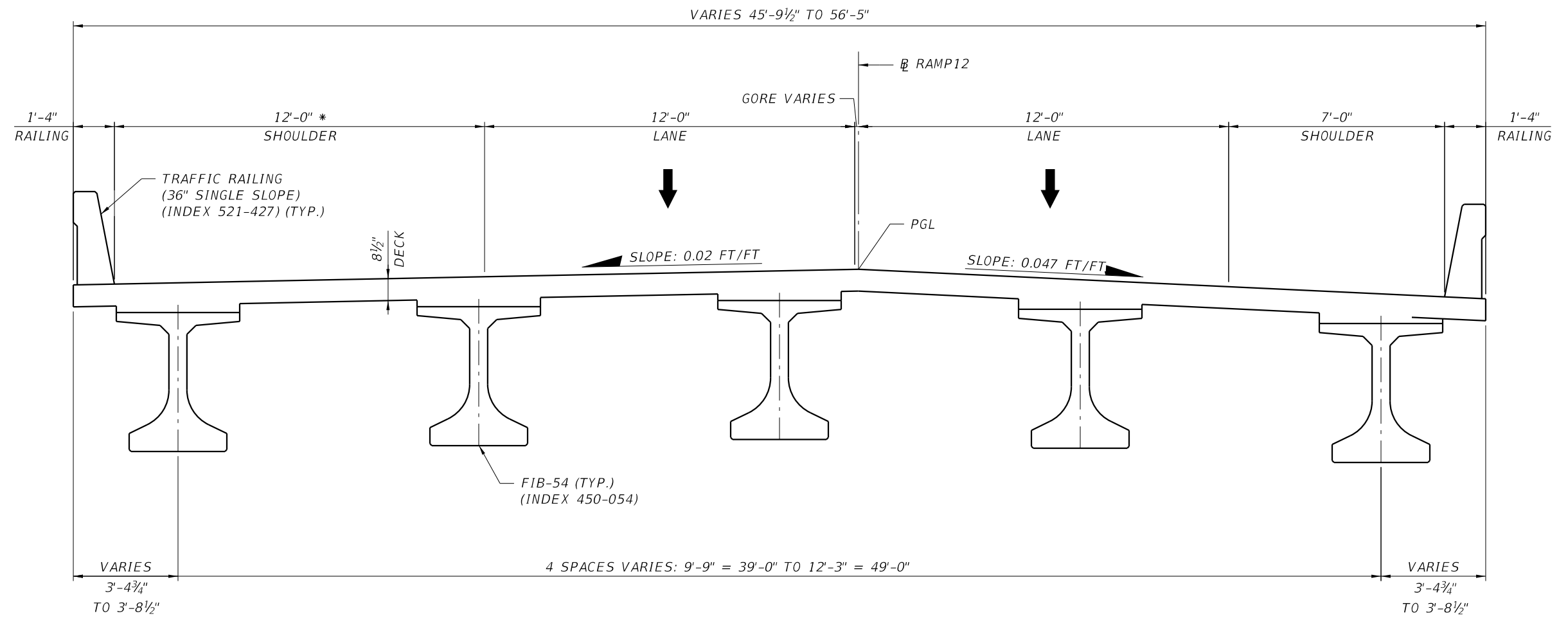
PLAN



ELEVATION

BRIDGE NO. 7A - CONNECTOR WB OVER VALENCIA PARKWAY

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 7A	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



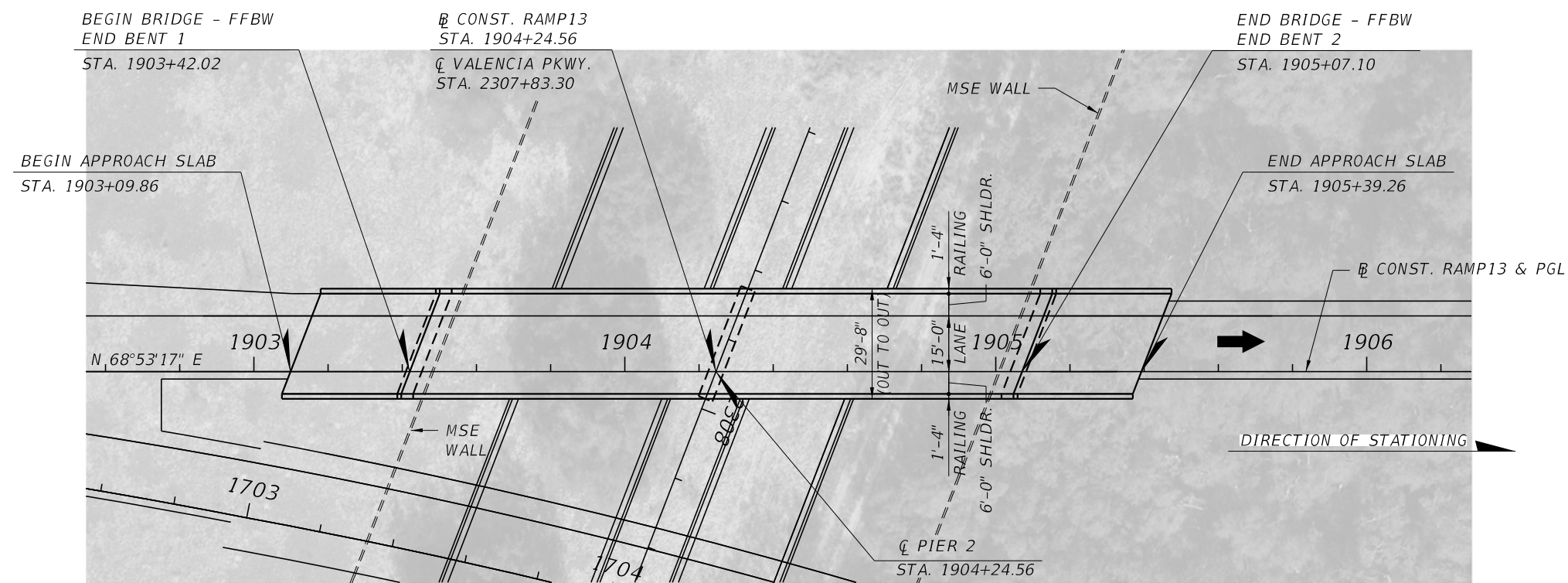
TYPICAL SECTION

BEGIN STA. 313+22.95
 END STA. 314+84.80

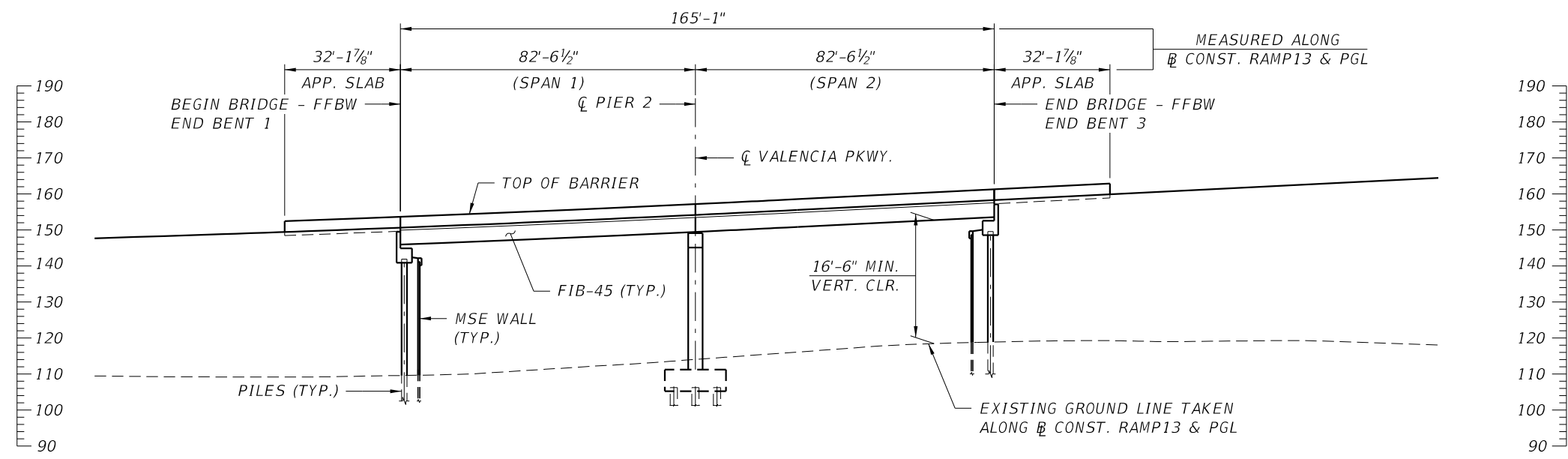
* SHOULDER WIDTH BASED ON SIGHT DISTANCE REQUIREMENT

BRIDGE NO. 7A - CONNECTOR WB OVER VALENCIA PARKWAY

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 7A	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



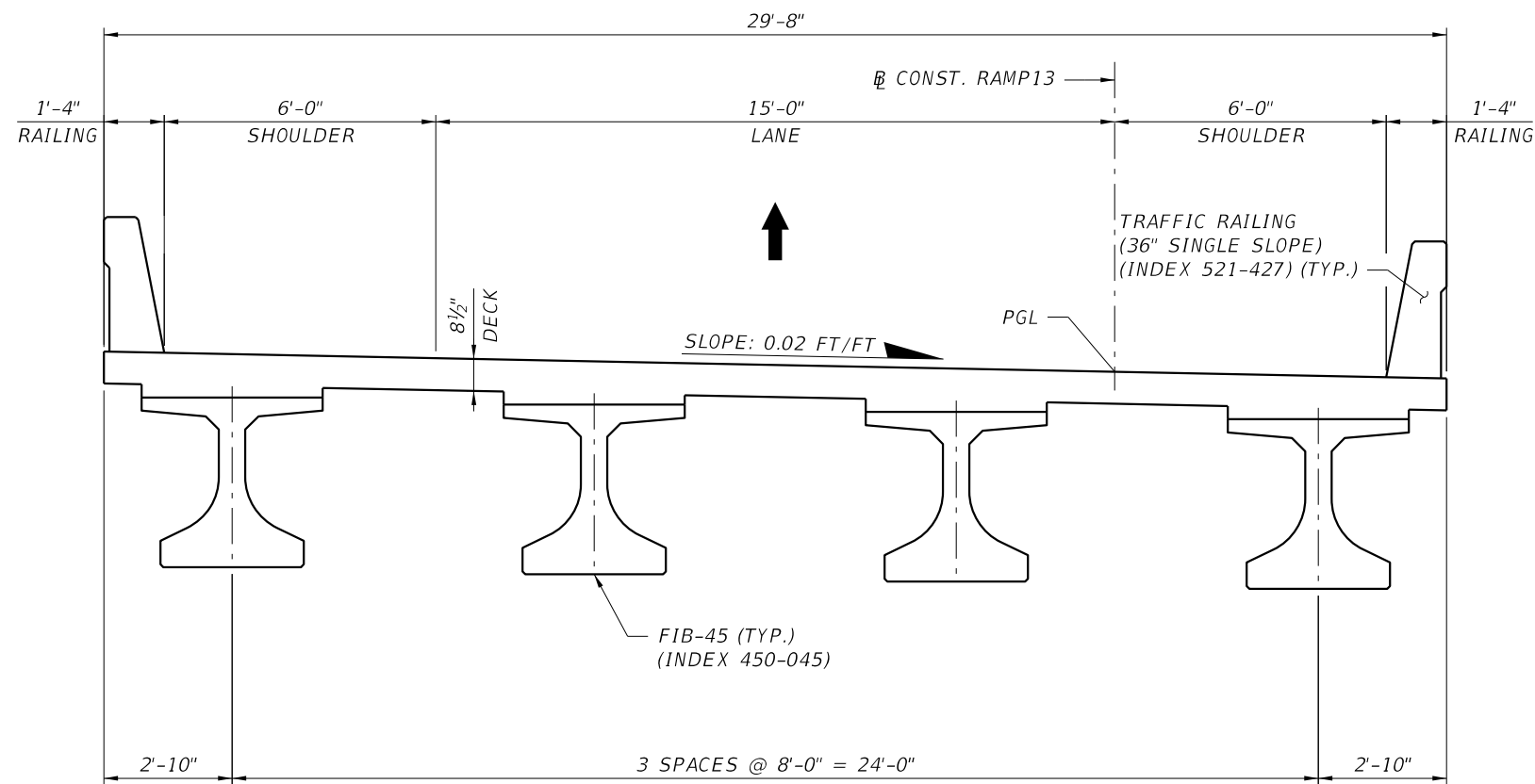
PLAN



ELEVATION

BRIDGE NO. 7B - CONNECTOR EB TO SR 429 NB OVER VALENCIA PARKWAY

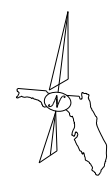
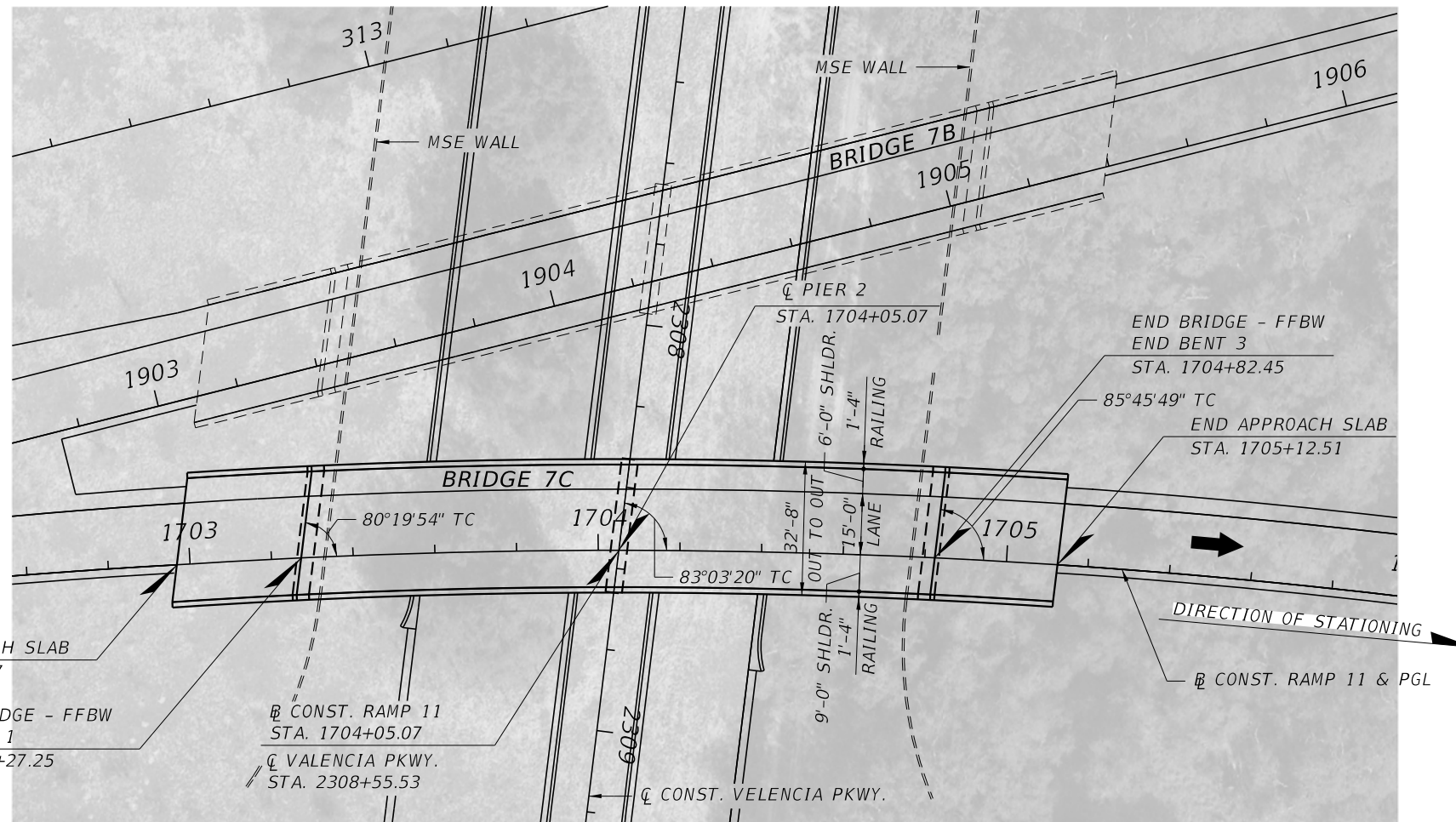
REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 7B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



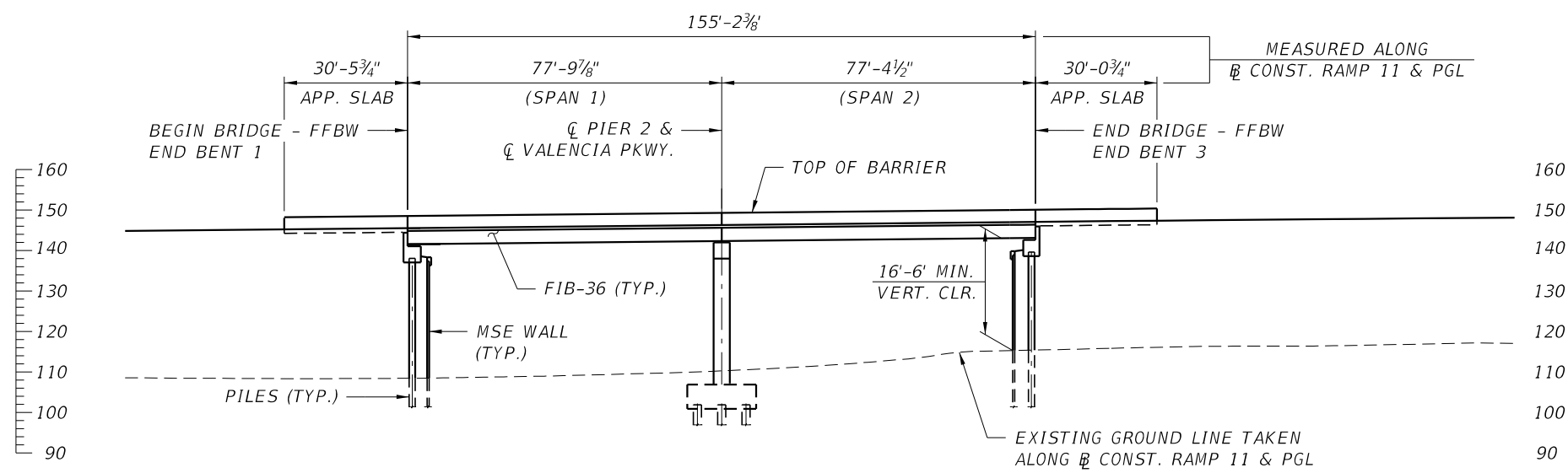
TYPICAL SECTION
 BEGIN STA. 1903+42.02
 END STA. 1905+07.10

BRIDGE NO. 7B - CONNECTOR EB TO SR 429 NB OVER VALENCIA PARKWAY

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 7B	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



PLAN

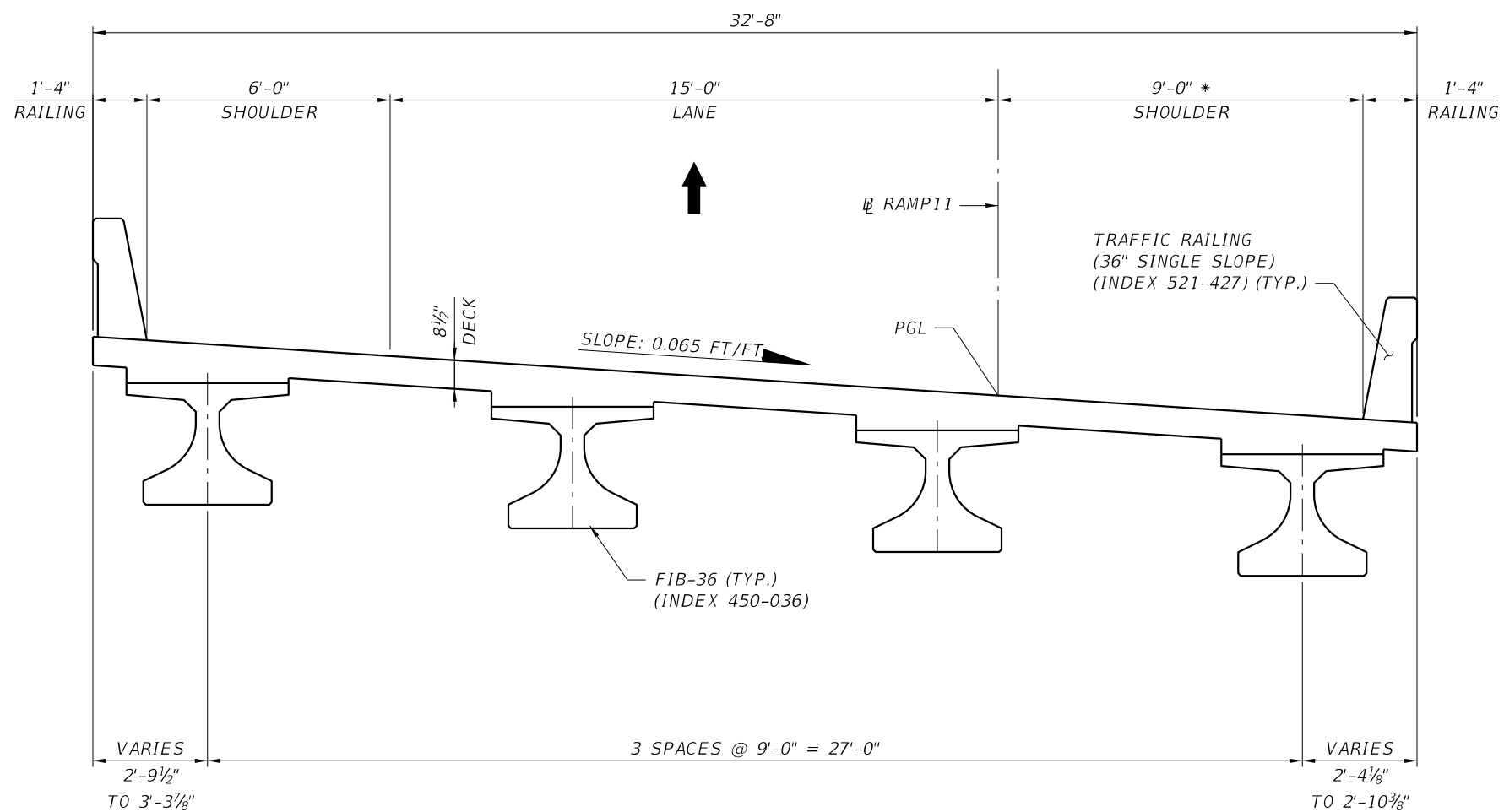


ELEVATION

BRIDGE NO. 7C - CONNECTOR EB TO SR 429 SB OVER VALENCIA PARKWAY

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 7C	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

GEORGES EL-GHARIB, P.E.
P.E. LICENSE NO. 72288
BCC ENGINEERING, INC.
160 N WESTMONTE DRIVE, SUITE 2000
ALTAMONTE SPRINGS, FLORIDA 32714
CERTIFICATE OF AUTHORIZATION NO. 7184



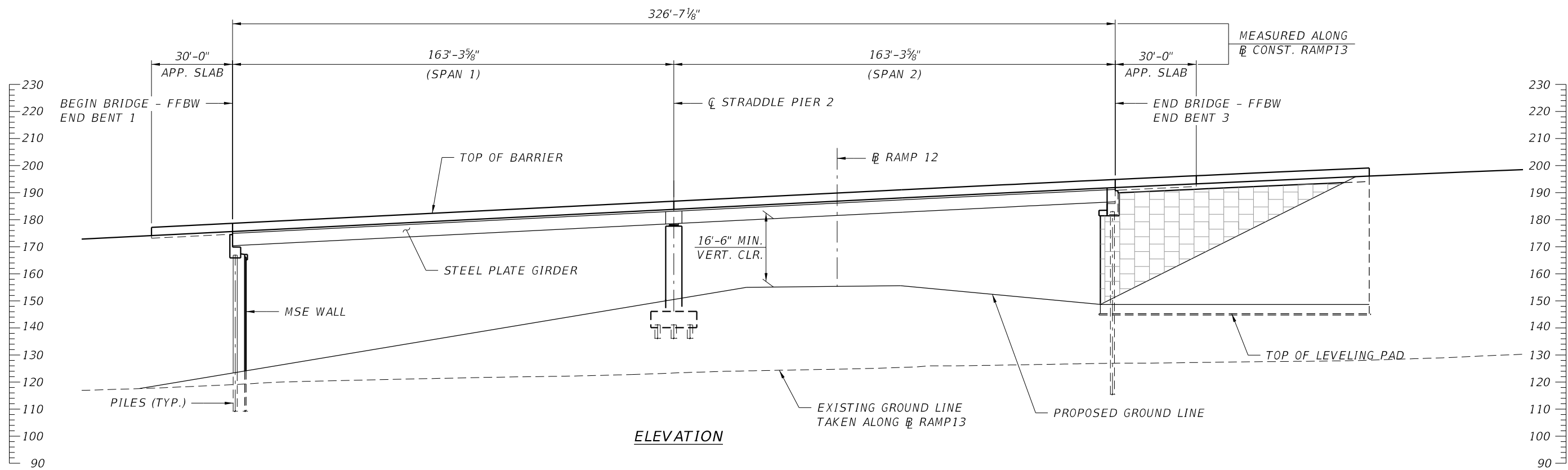
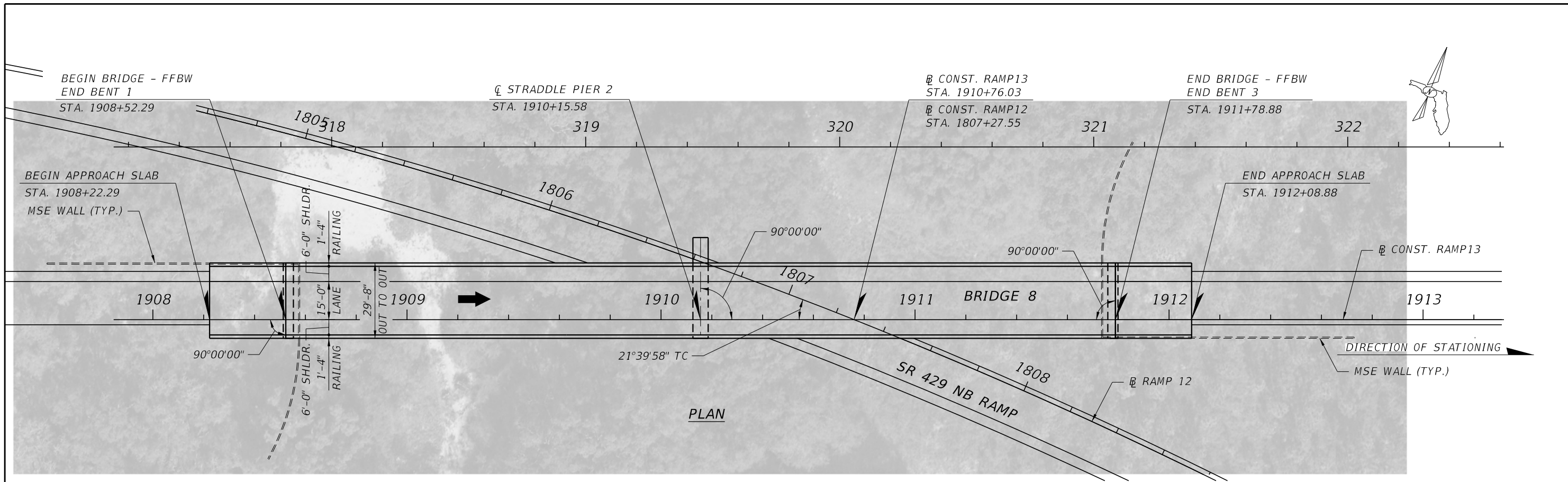
TYPICAL SECTION

BEGIN STA. 1703+27.25
 END STA. 1704+82.45

* SHOULDER WIDTH BASED ON SIGHT DISTANCE REQUIREMENT

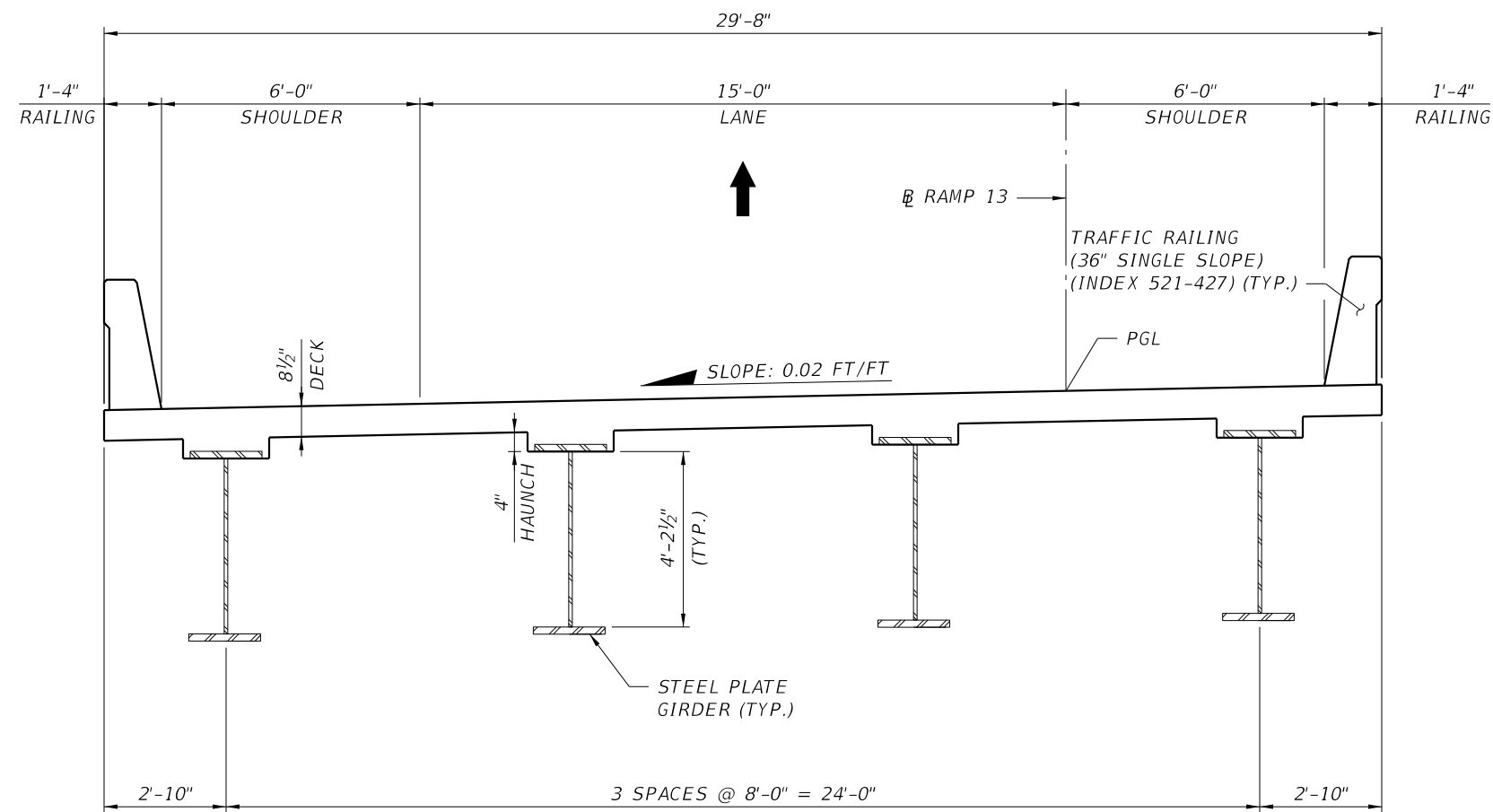
BRIDGE NO. 7C - CONNECTOR EB TO SR 429 SB OVER VALENCIA PARKWAY

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 7C	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



BRIDGE NO. 8 - CONNECTOR EB OVER SR 429 NB RAMP TO CONNECTOR WB

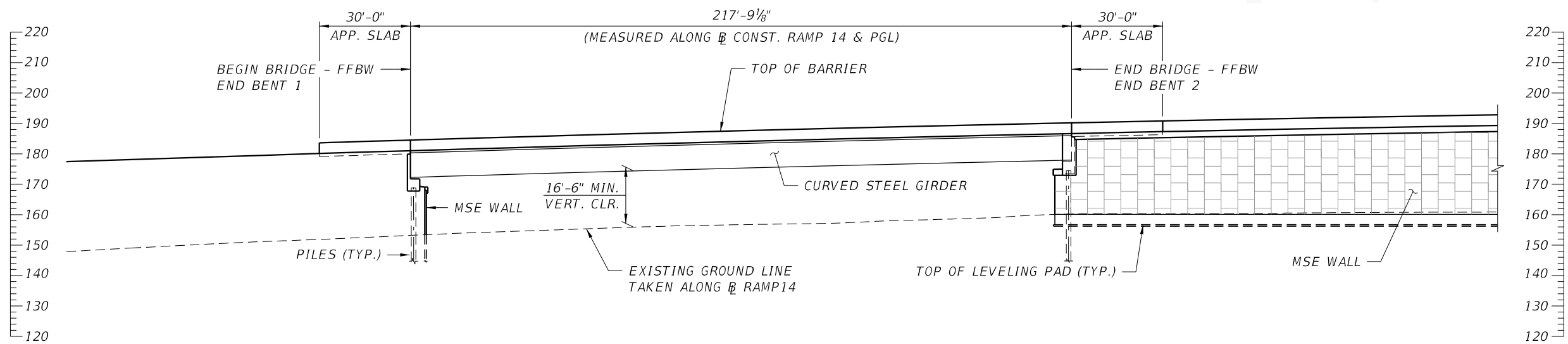
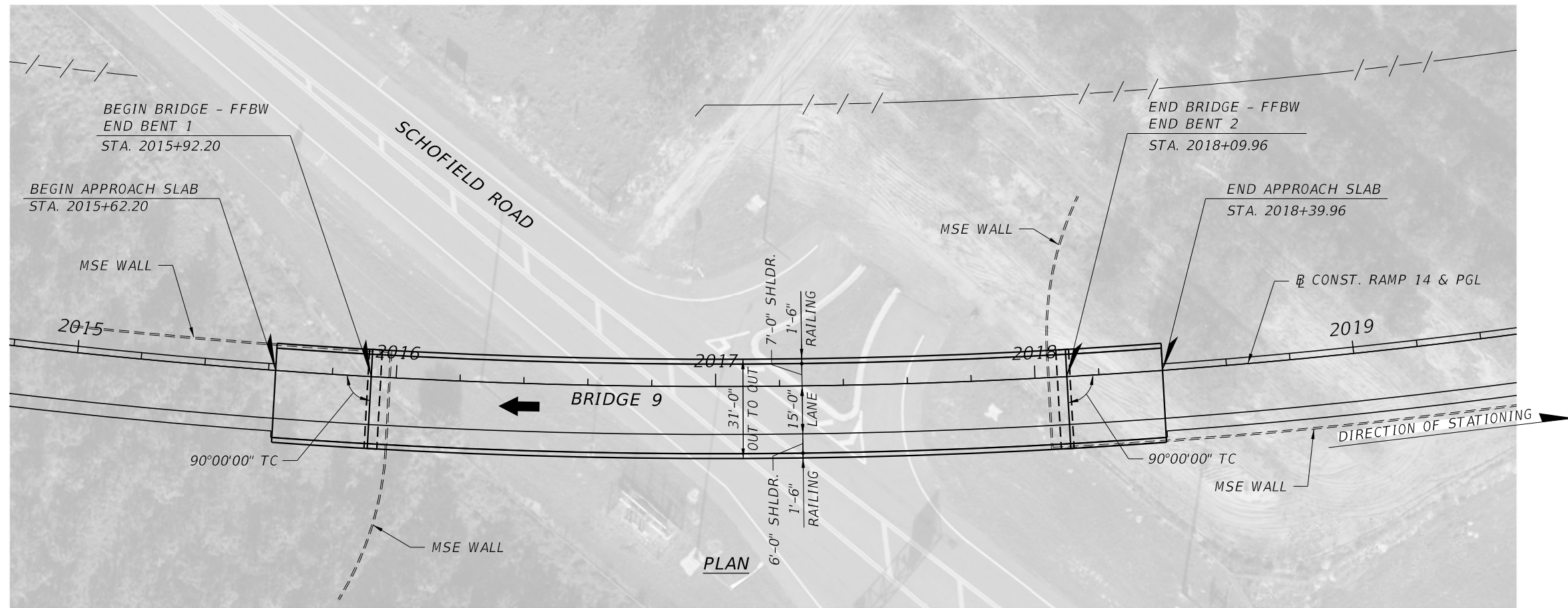
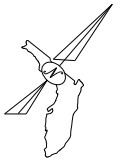
REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 8	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



TYPICAL SECTION
 BEGIN STA. 1908+52.29
 END STA. 1911+78.88

BRIDGE NO. 8 - CONNECTOR EB OVER SR 429 NB RAMP TO CONNECTOR WB

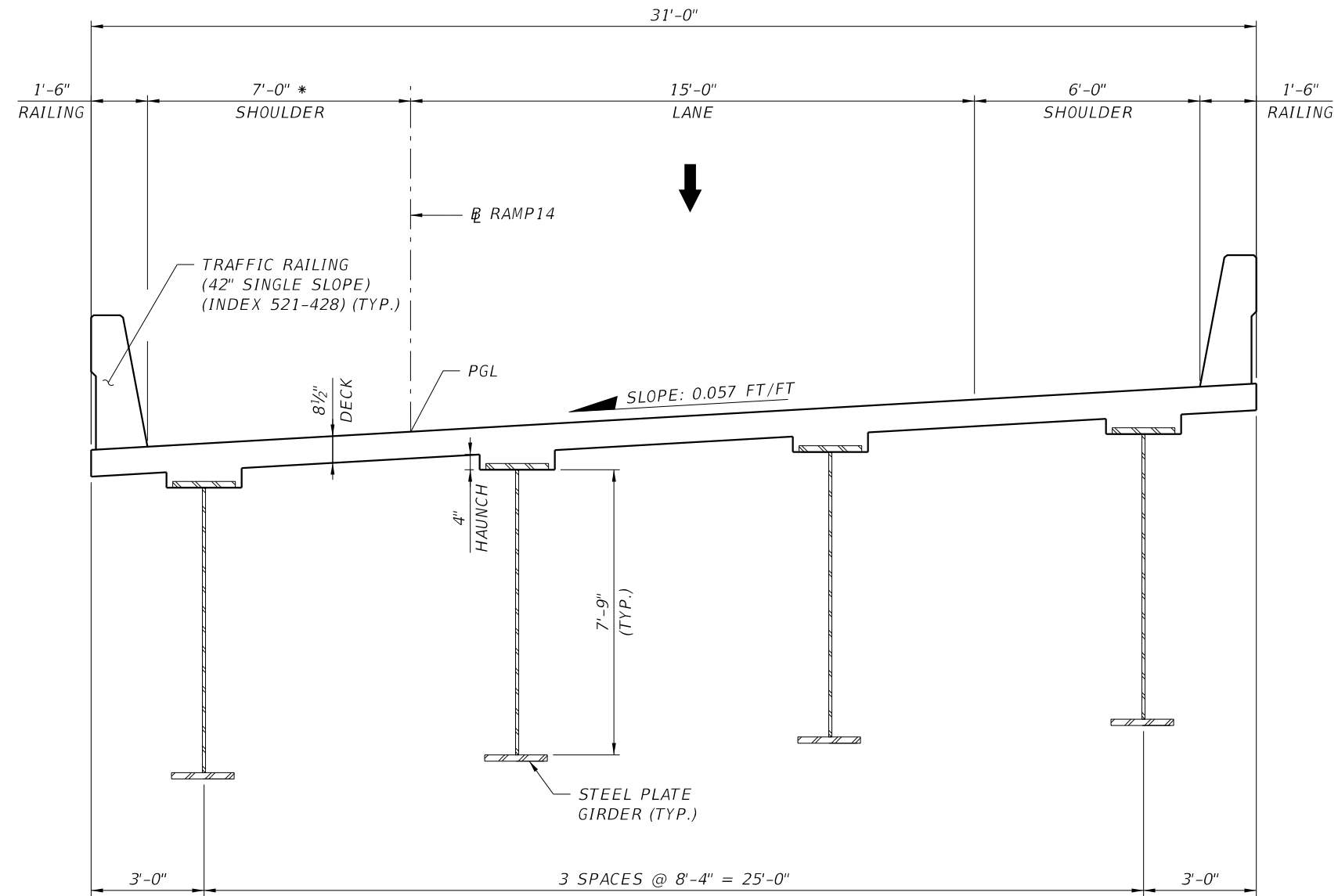
REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 8	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



ELEVATION

BRIDGE NO. 9 - SR 429 SB RAMP TO CONNECTOR WB OVER SCHOFIELD RD

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 9	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



TYPICAL SECTION

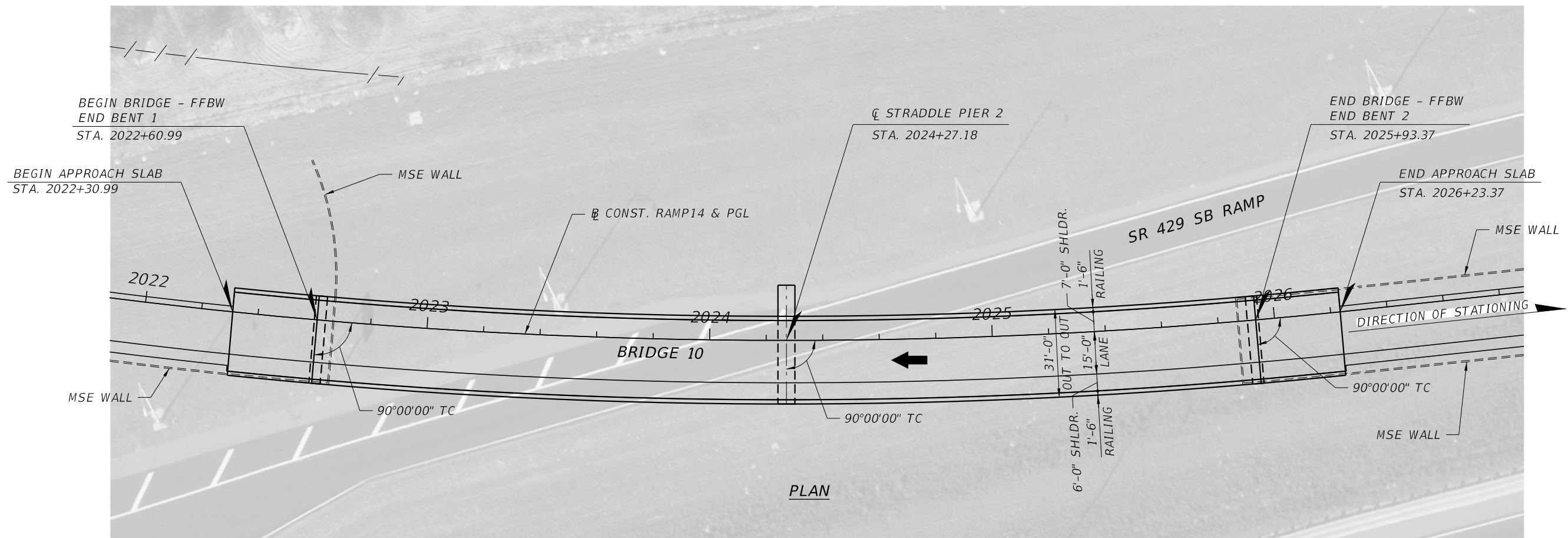
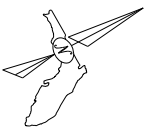
BEGIN STA. 2015+92.20

END STA. 2018+09.96

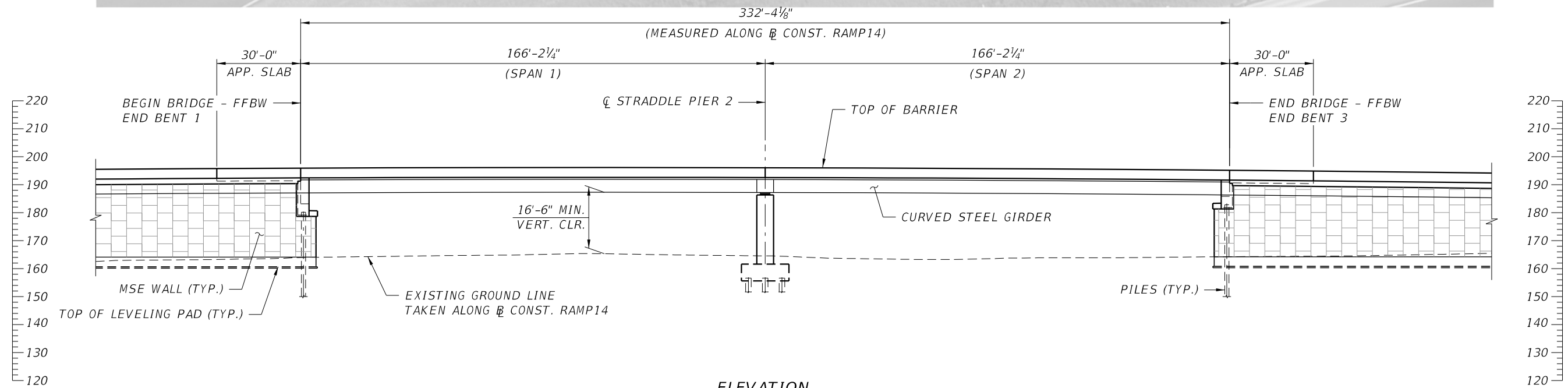
* SHOULDER WIDTH BASED ON SIGHT DISTANCE REQUIREMENT

BRIDGE NO. 9 - SR 429 SB RAMP TO CONNECTOR WB OVER SCHOFIELD RD

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 9	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



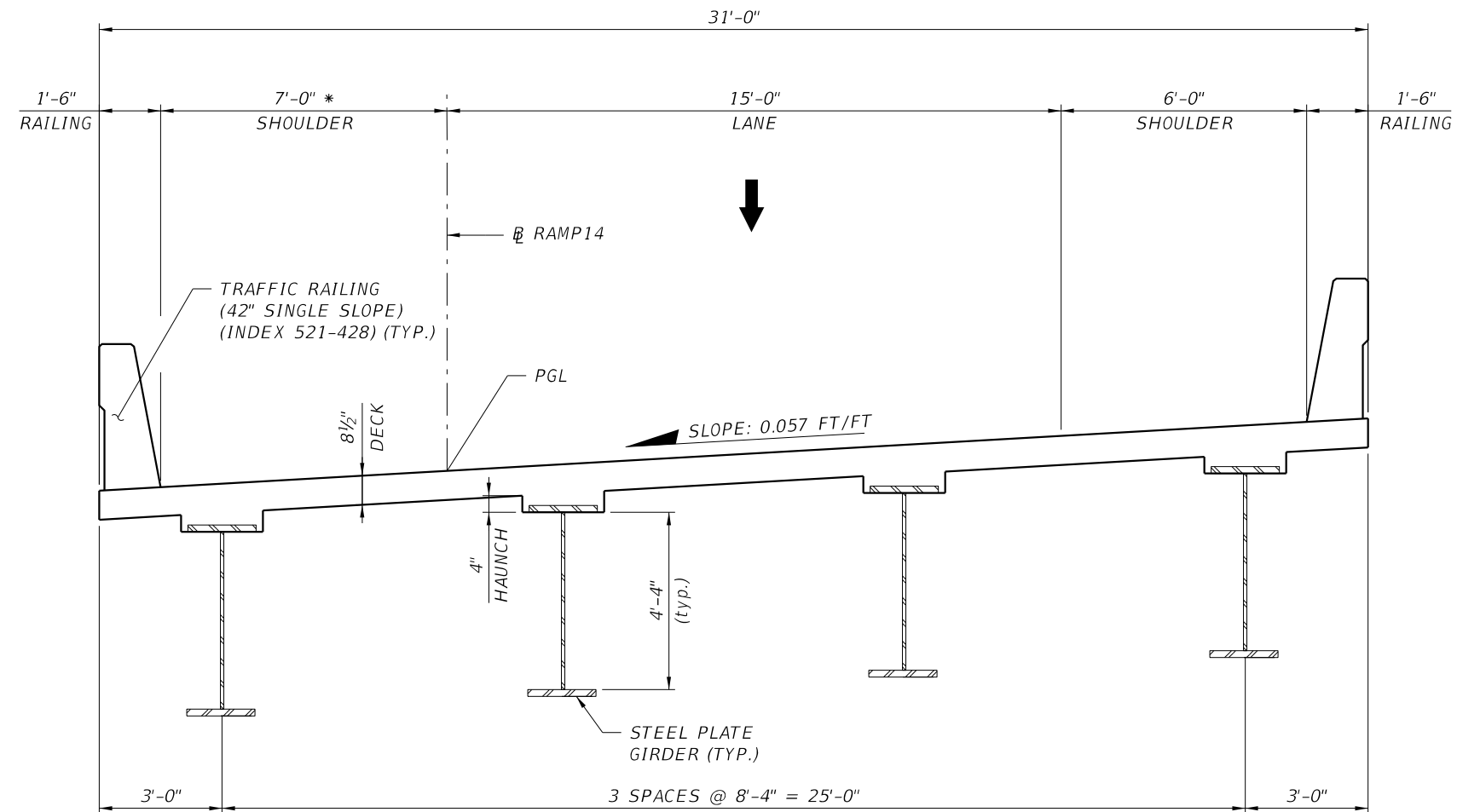
PLAN



ELEVATION

BRIDGE NO. 10 - SR 429 SB RAMP TO CONNECTOR WB OVER SR 429 SB OFF RAMP

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 10	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



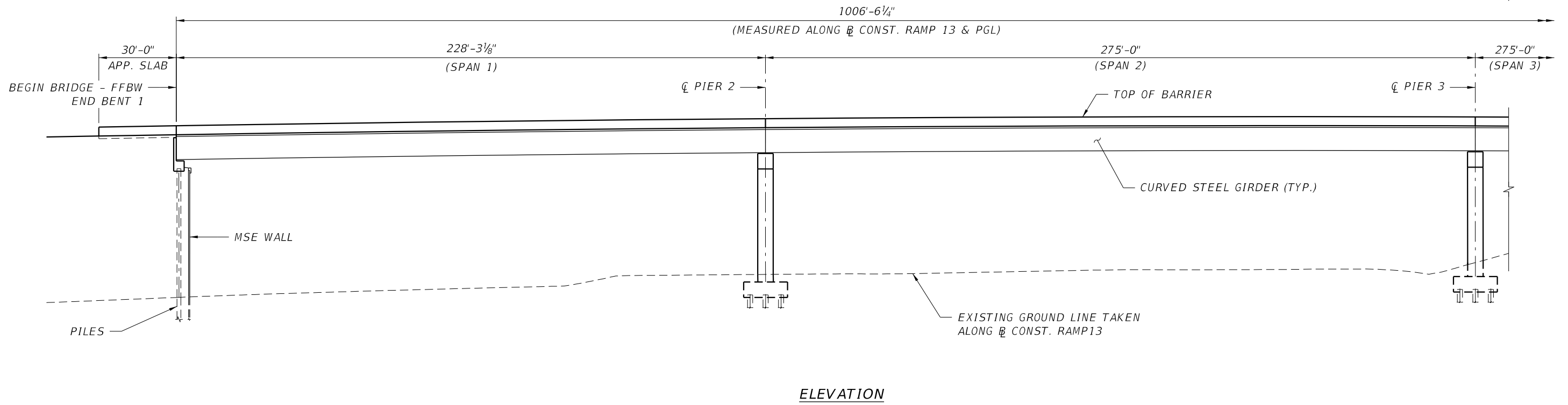
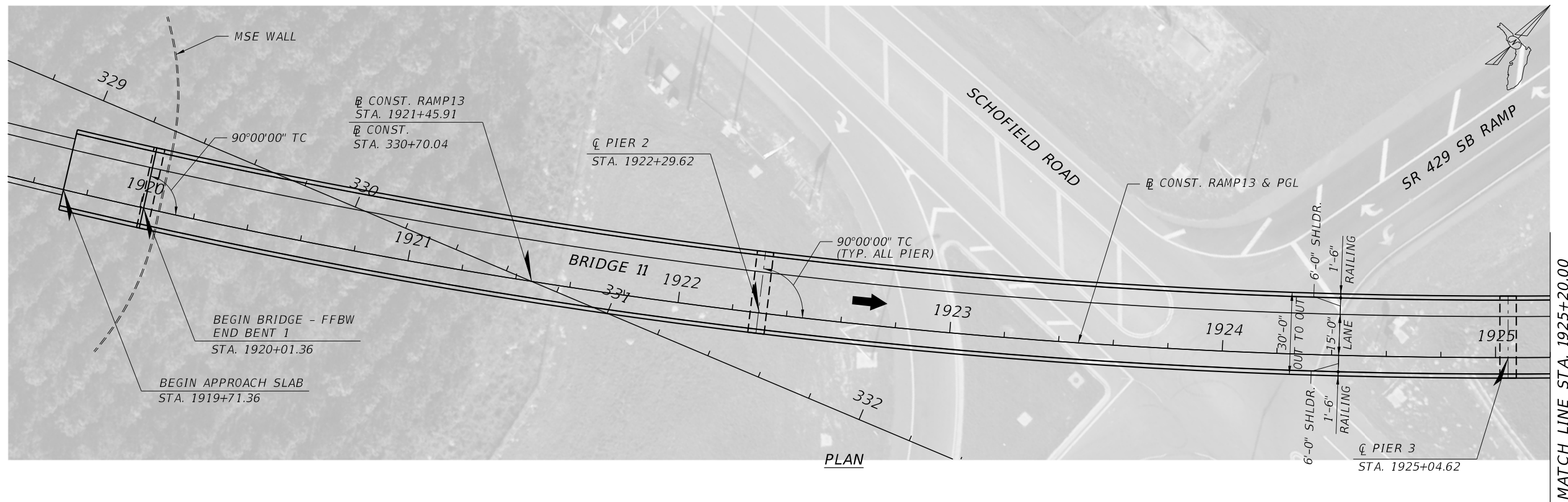
TYPICAL SECTION

BEGIN STA. 2022+60.99
END STA. 2025+93.37

* SHOULDER WIDTH BASED ON SIGHT DISTANCE REQUIREMENT

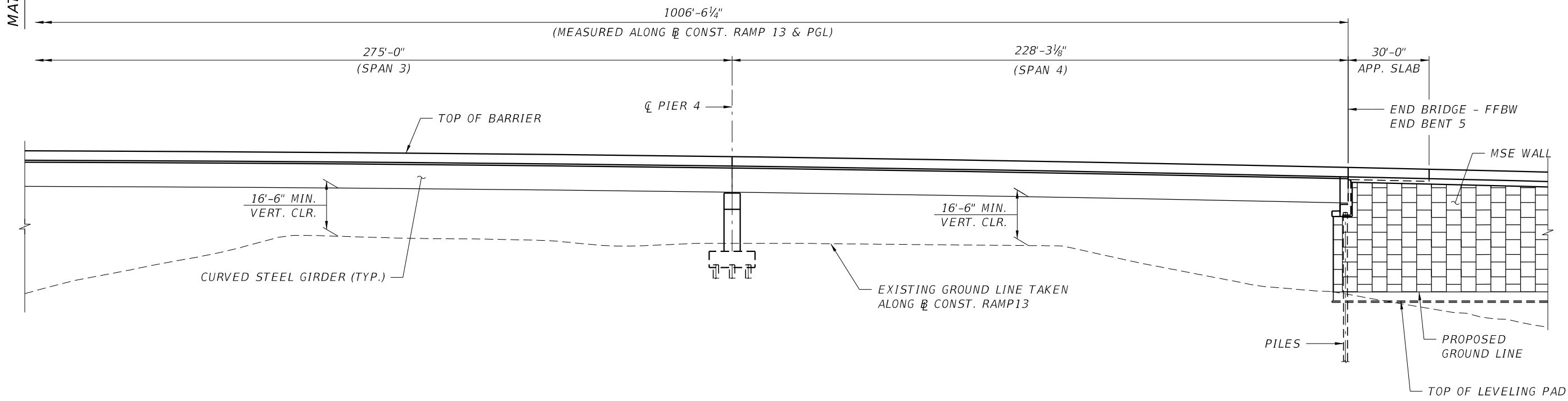
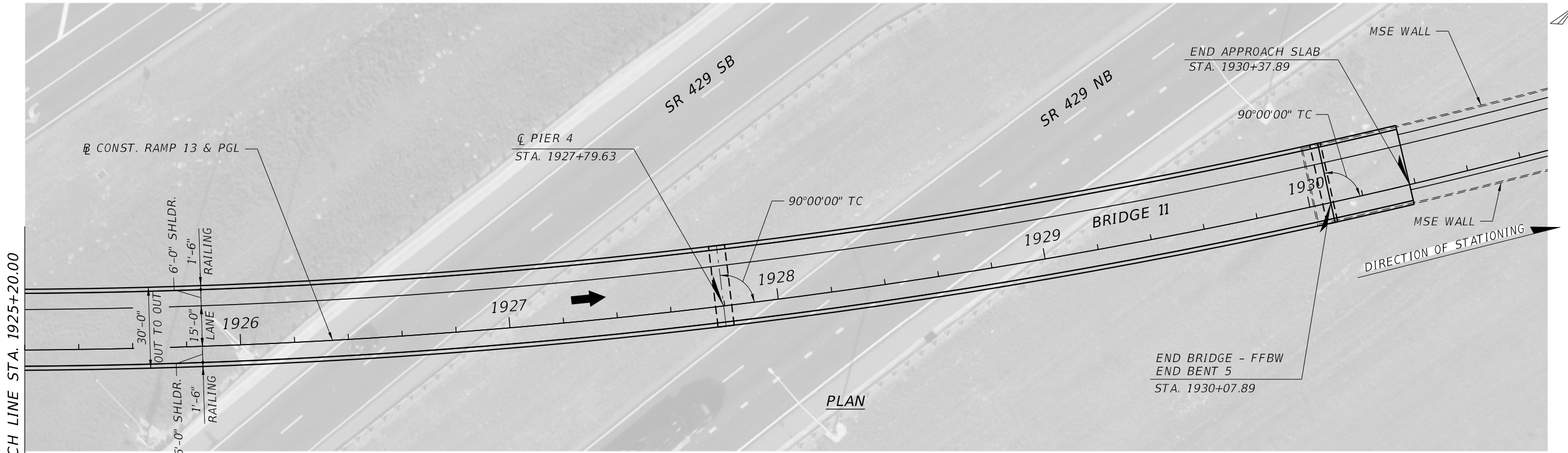
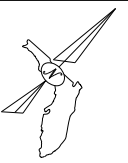
BRIDGE NO. 10 - SR 429 SB RAMP TO CONNECTOR WB OVER SR 429 SB OFF RAMP

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 10	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



BRIDGE NO. 11 - CONNECTOR EB RAMP TO SR 429 NB OVER SCHOFIELD RD AND SR 429

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (1 OF 2) BRIDGE NO. 11	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



ELEVATION

BRIDGE NO. 11 - CONNECTOR EB RAMP TO SR 429 NB OVER SCHOFIELD RD AND SR 429

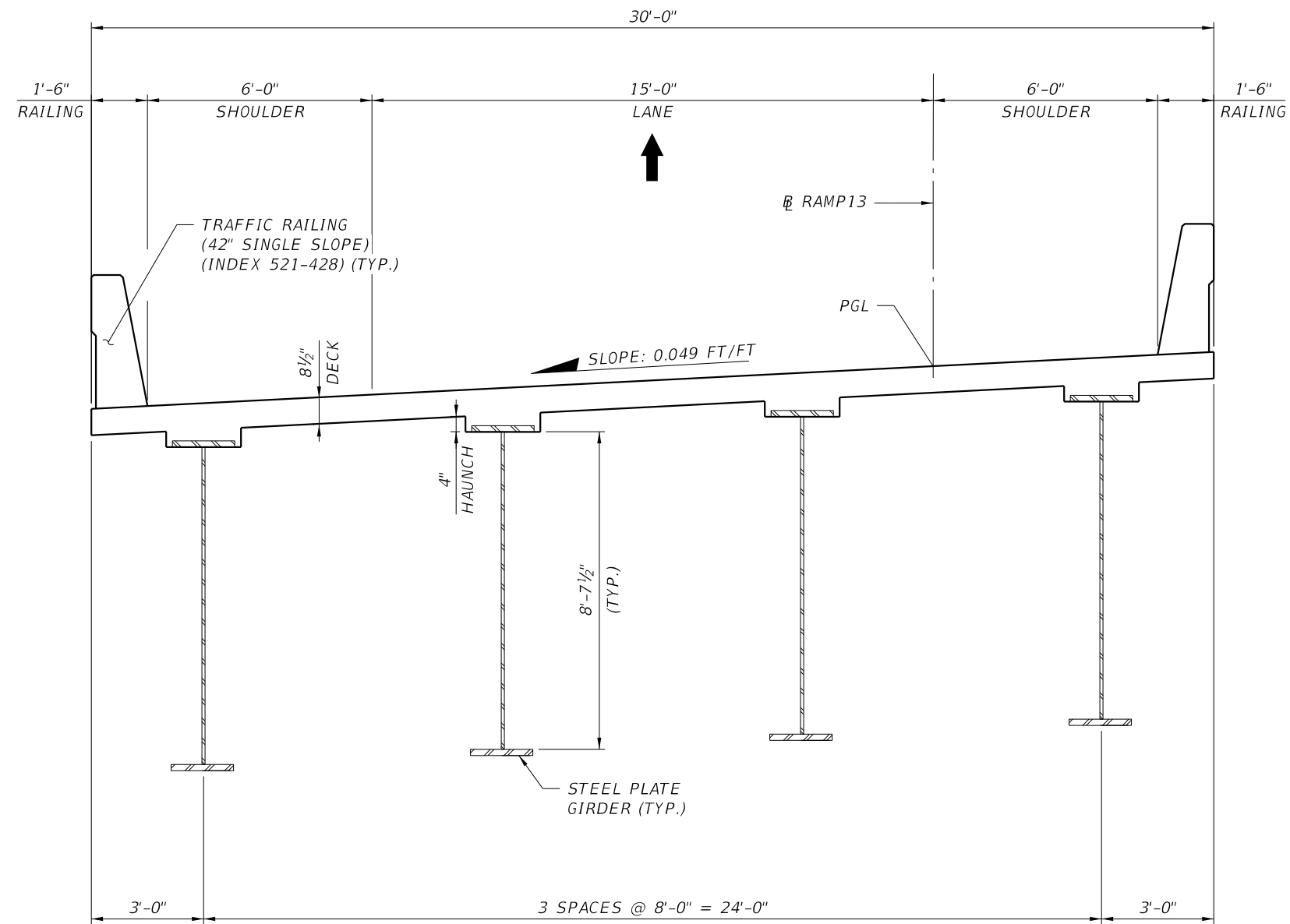
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GEORGES EL-GHARIB, P.E.
 P.E. LICENSE NO. 72288
 BCC ENGINEERING, INC.
 160 N WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714
 CERTIFICATE OF AUTHORIZATION NO. 7184

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

PLAN AND ELEVATION (2 OF 2)
BRIDGE NO. 11

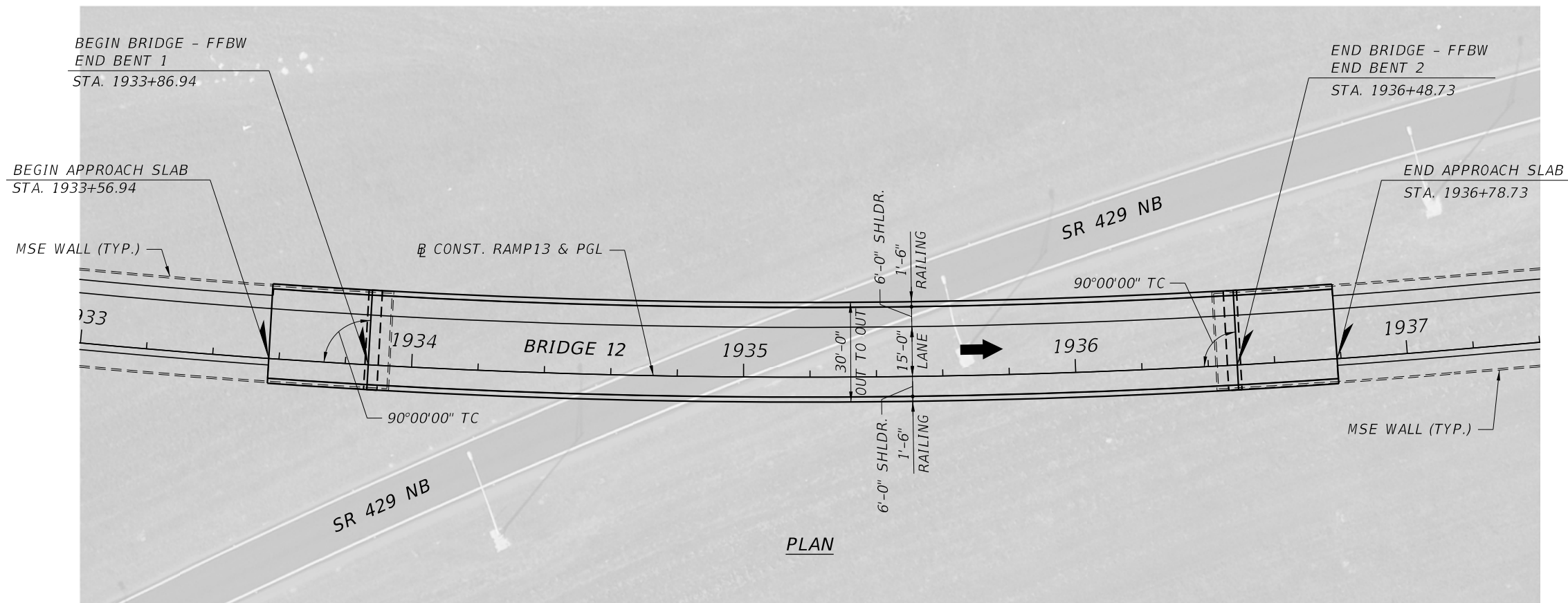
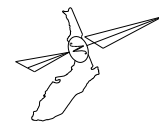
SHEET NO.



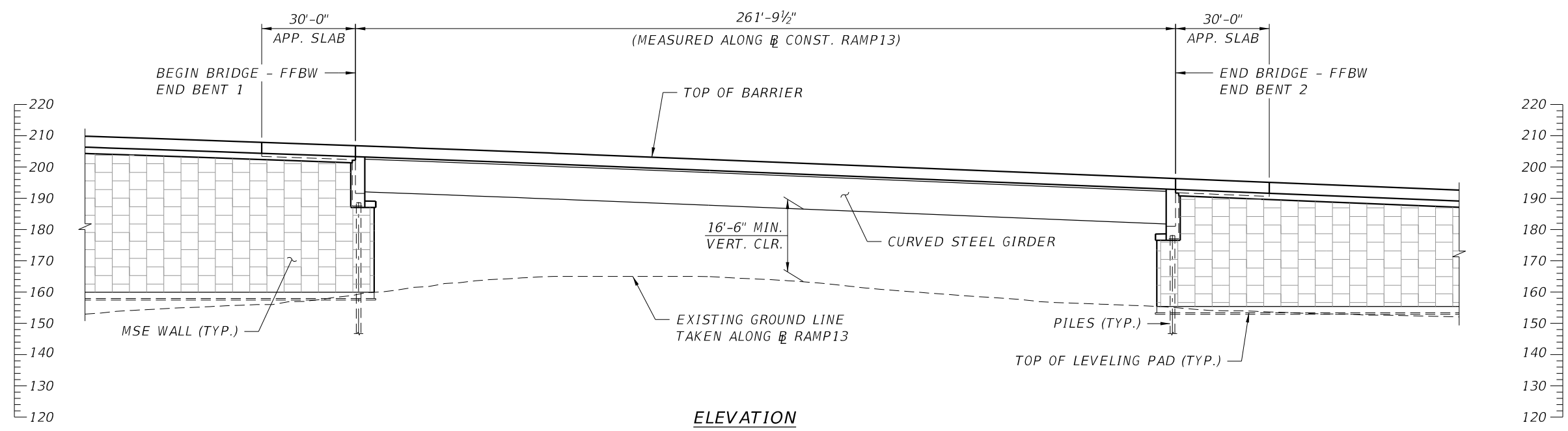
TYPICAL SECTION
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 END STA. 1930+07.89

BRIDGE NO. 11 - CONNECTOR EB RAMP TO SR 429 NB OVER SCHOFIELD RD AND SR 429

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 11	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



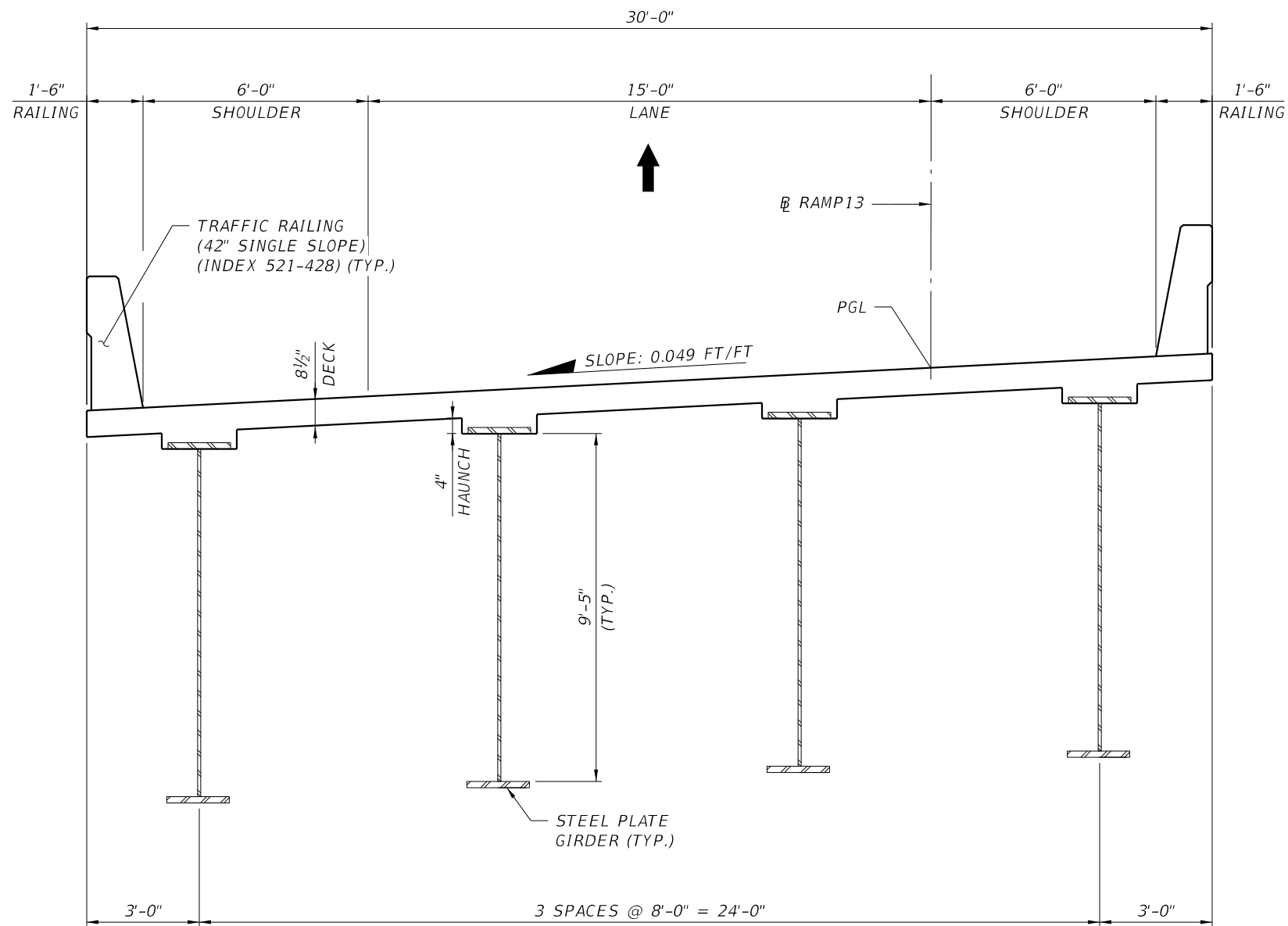
PLAN



ELEVATION

BRIDGE NO. 12 - CONNECTOR EB RAMP TO SR 429 NB OVER SR 429 NB ON RAMP

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 12	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

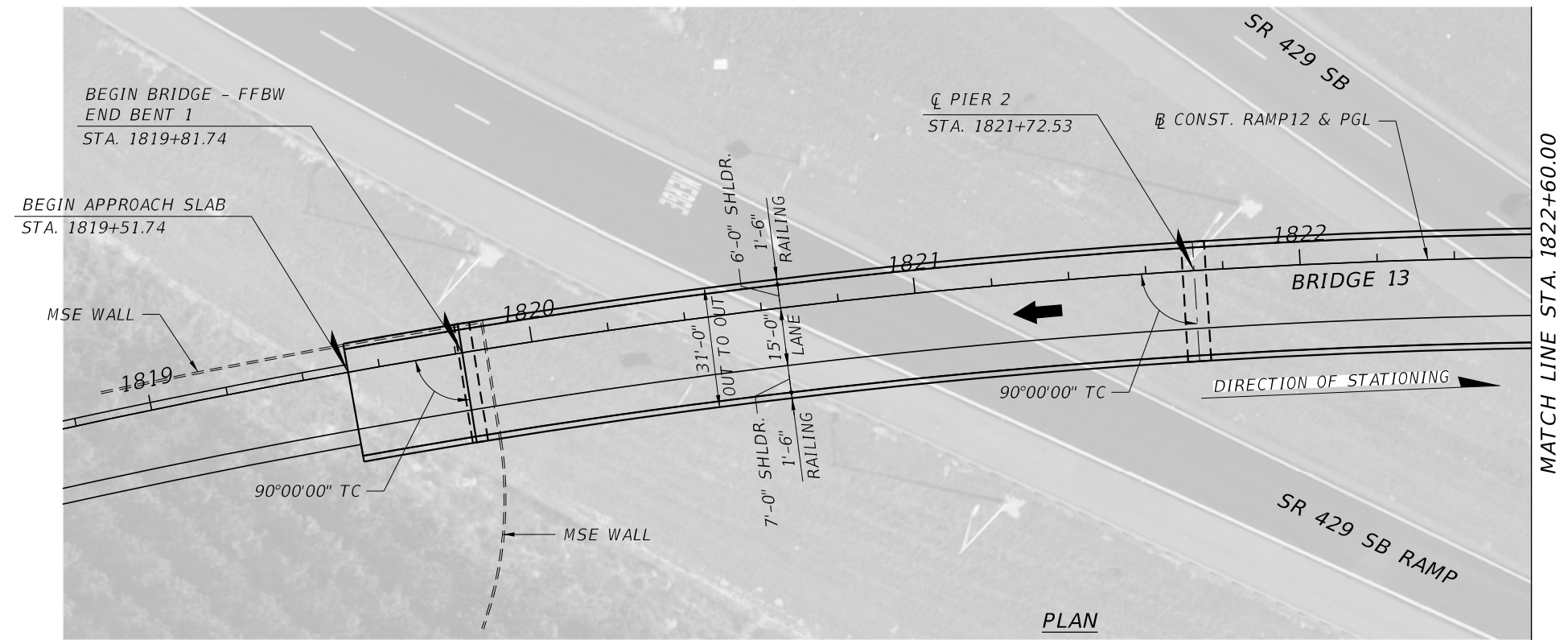
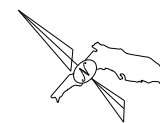


TYPICAL SECTION

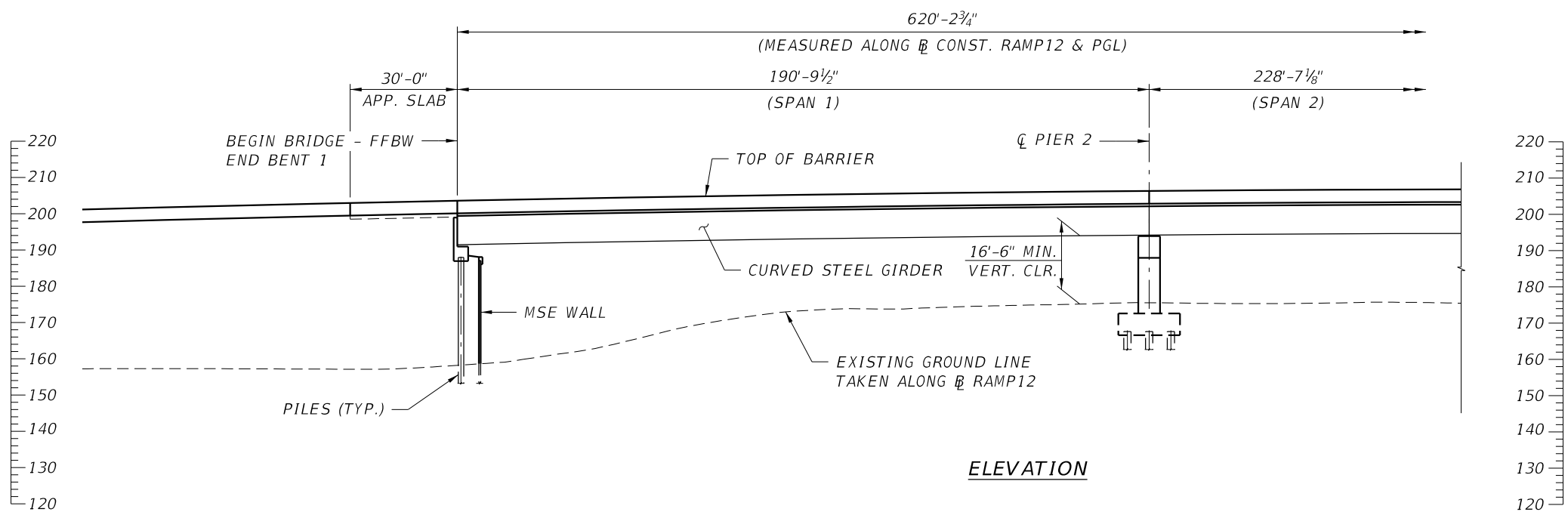
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BRIDGE NO. 12 - CONNECTOR EB RAMP TO SR 429 NB OVER SR 429 NB ON RAMP

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 12	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



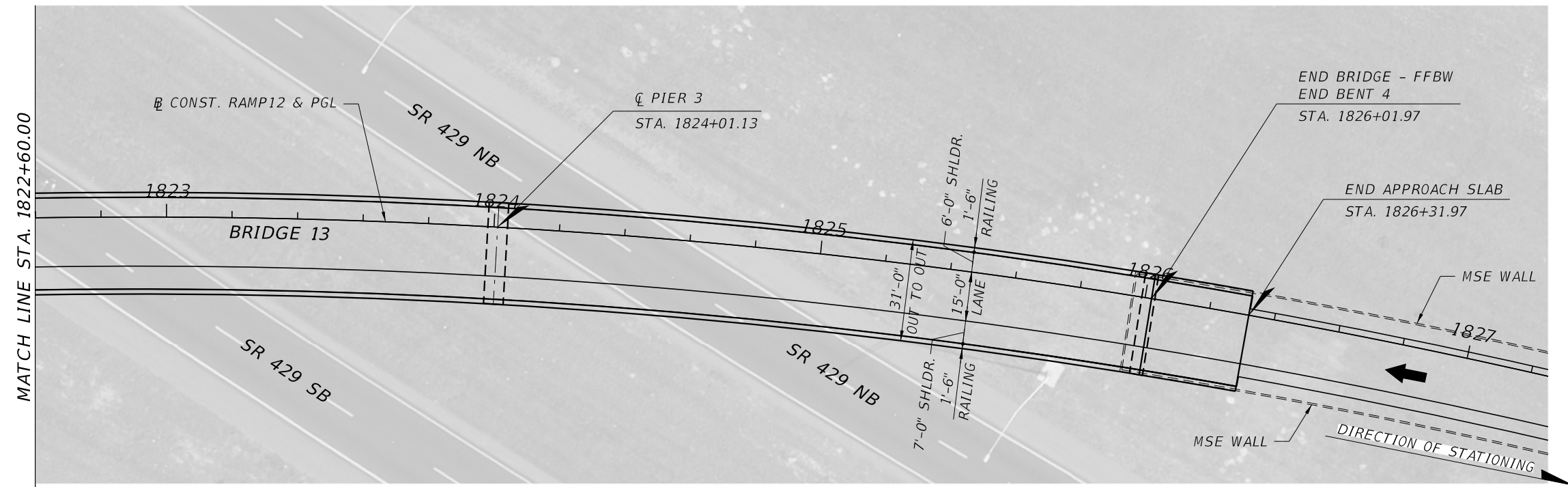
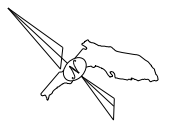
PLAN



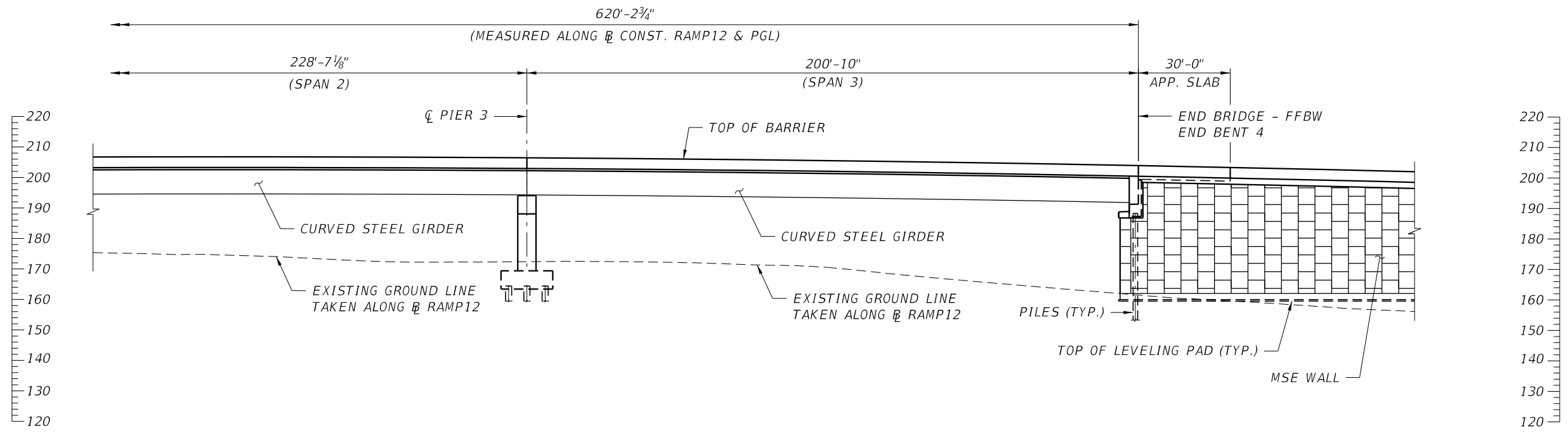
ELEVATION

BRIDGE NO. 13 - SR 429 NB RAMP TO CONNECTOR WB OVER SR 429

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (1 OF 2) BRIDGE NO. 13	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



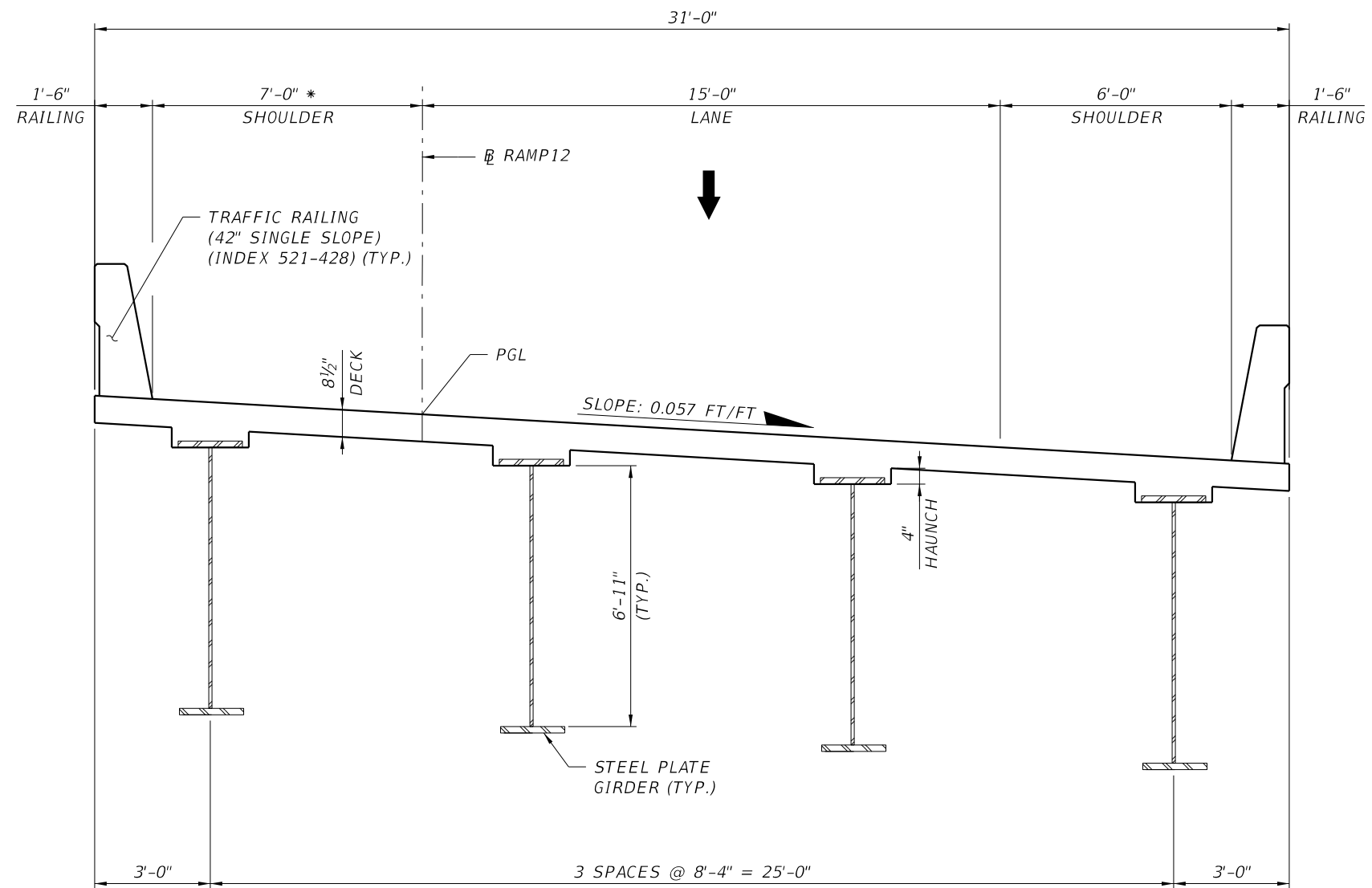
PLAN



ELEVATION

BRIDGE NO. 13 - SR 429 NB RAMP TO CONNECTOR WB OVER SR 429

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION (2 OF 2) BRIDGE NO. 13	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



TYPICAL SECTION

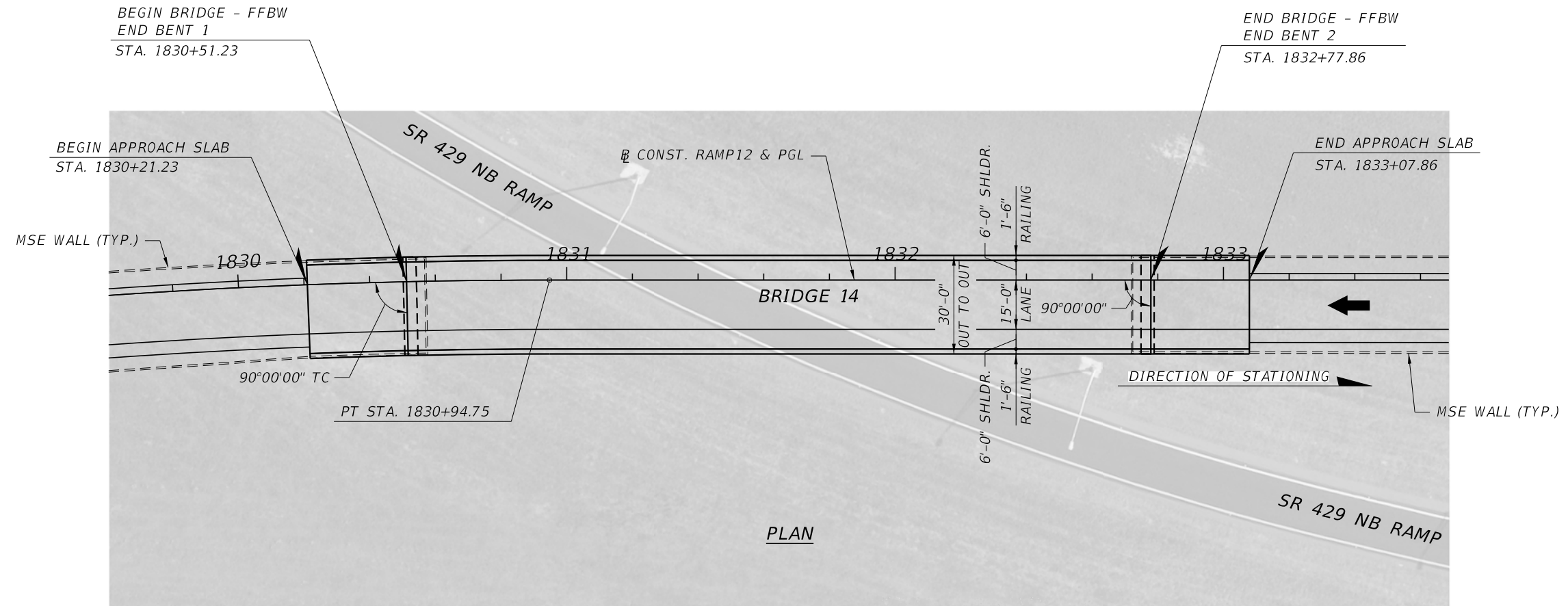
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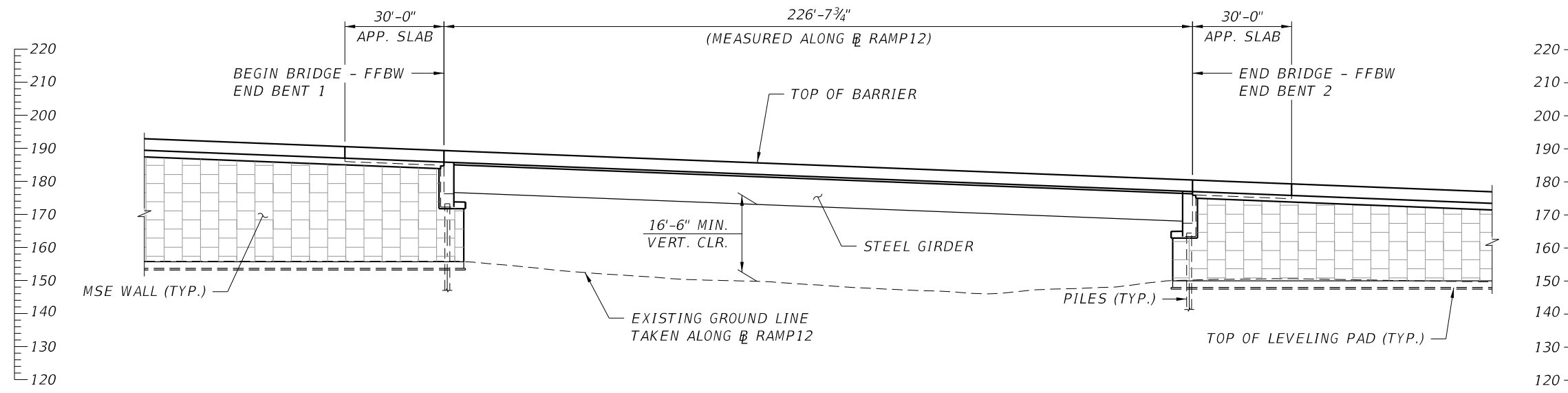
* SHOULDER WIDTH BASED ON SIGHT DISTANCE REQUIREMENT

BRIDGE NO. 13 - SR 429 NB RAMP TO CONNECTOR WB OVER SR 429

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 13	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



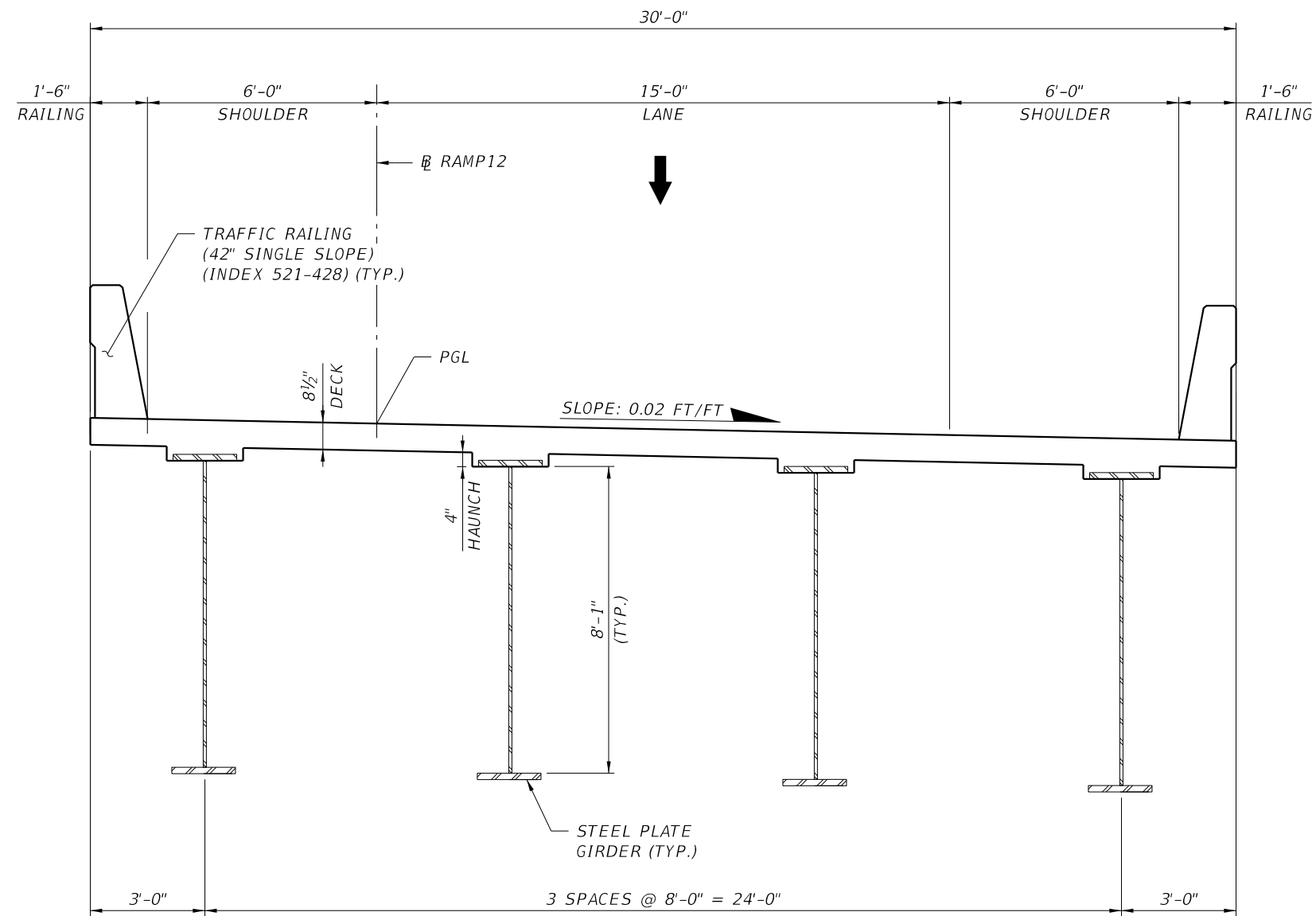
PLAN



ELEVATION

BRIDGE NO. 14 - SR 429 NB RAMP TO CONNECTOR WB OVER SR 429 NB OFF RAMP

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION BRIDGE NO. 14	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



TYPICAL SECTION
 BEGIN STA. 1830+51.23
 END STA. 1832+77.86

BRIDGE NO. 14 - SR 429 NB RAMP TO CONNECTOR WB OVER SR 429 NB OFF RAMP

REVISIONS				GEORGES EL-GHARIB, P.E. P.E. LICENSE NO. 72288 BCC ENGINEERING, INC. 160 N WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714 CERTIFICATE OF AUTHORIZATION NO. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION BRIDGE NO. 14	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

Conceptual Signing Plans

Figure F-1 - Conceptual Signing Plan 1

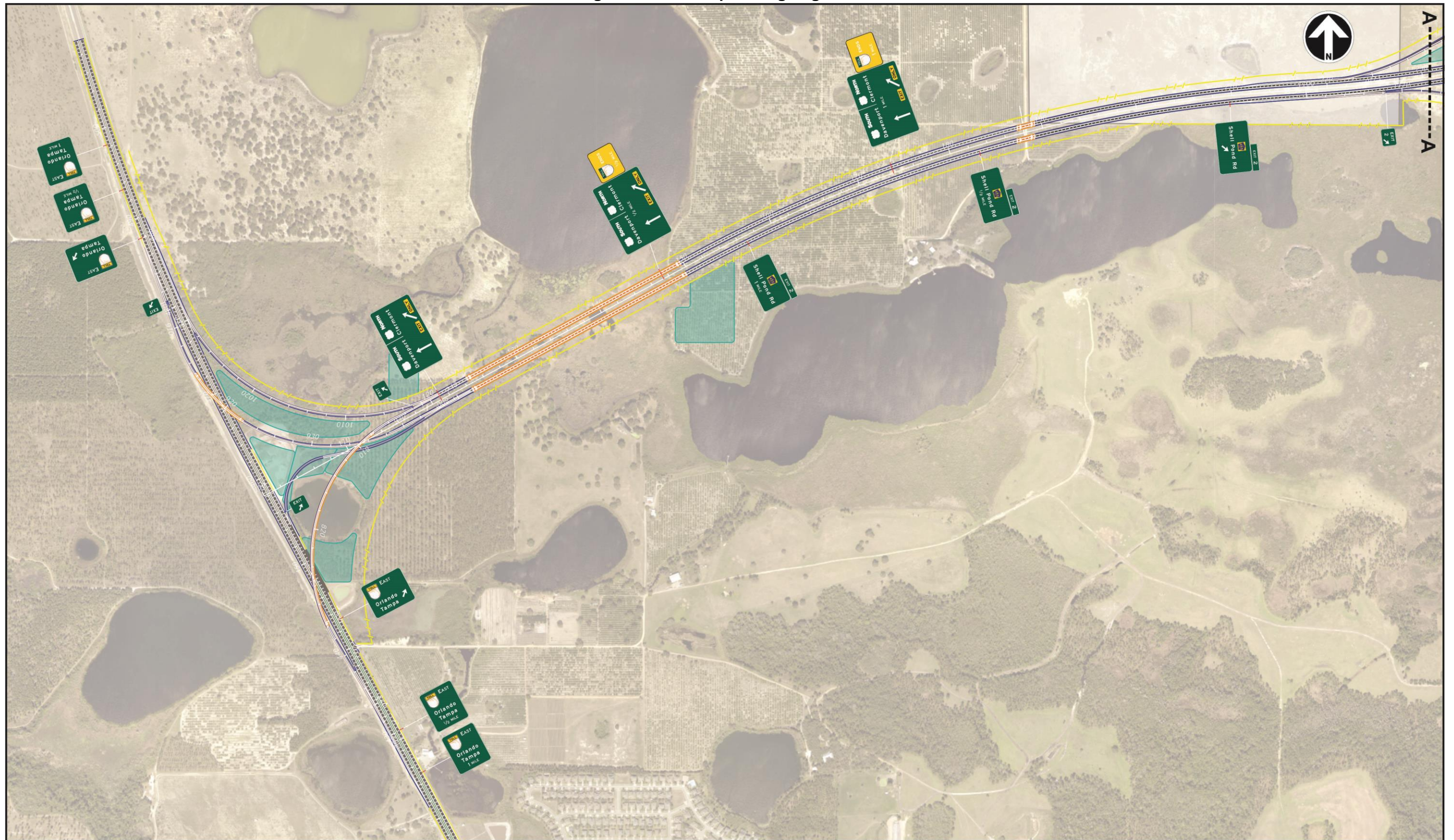


Figure F-2 - Conceptual Signing Plan 2

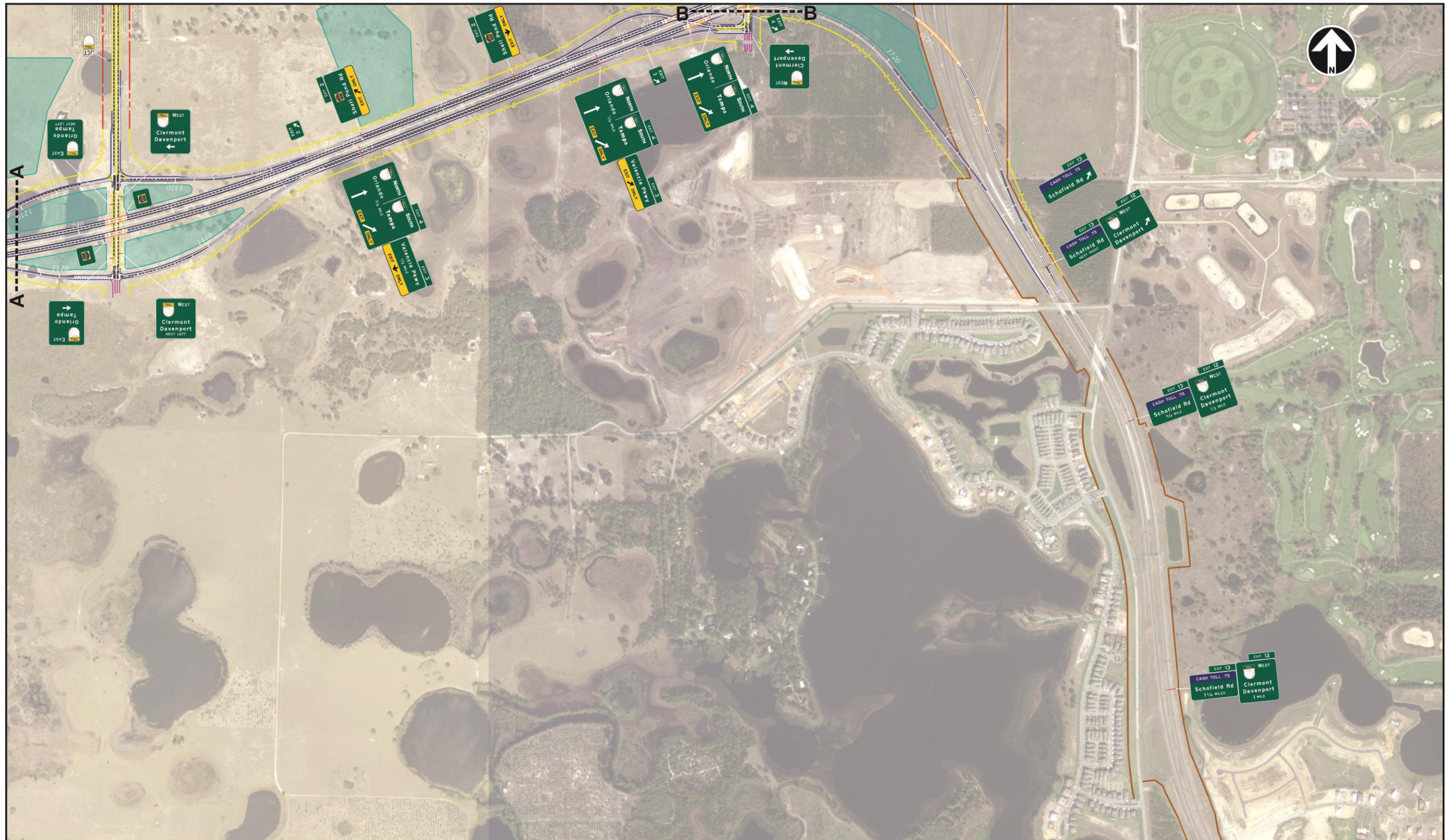


Figure F-3 - Conceptual Signing Plan 3



Appendix G: Cost Estimates

SUMMARY

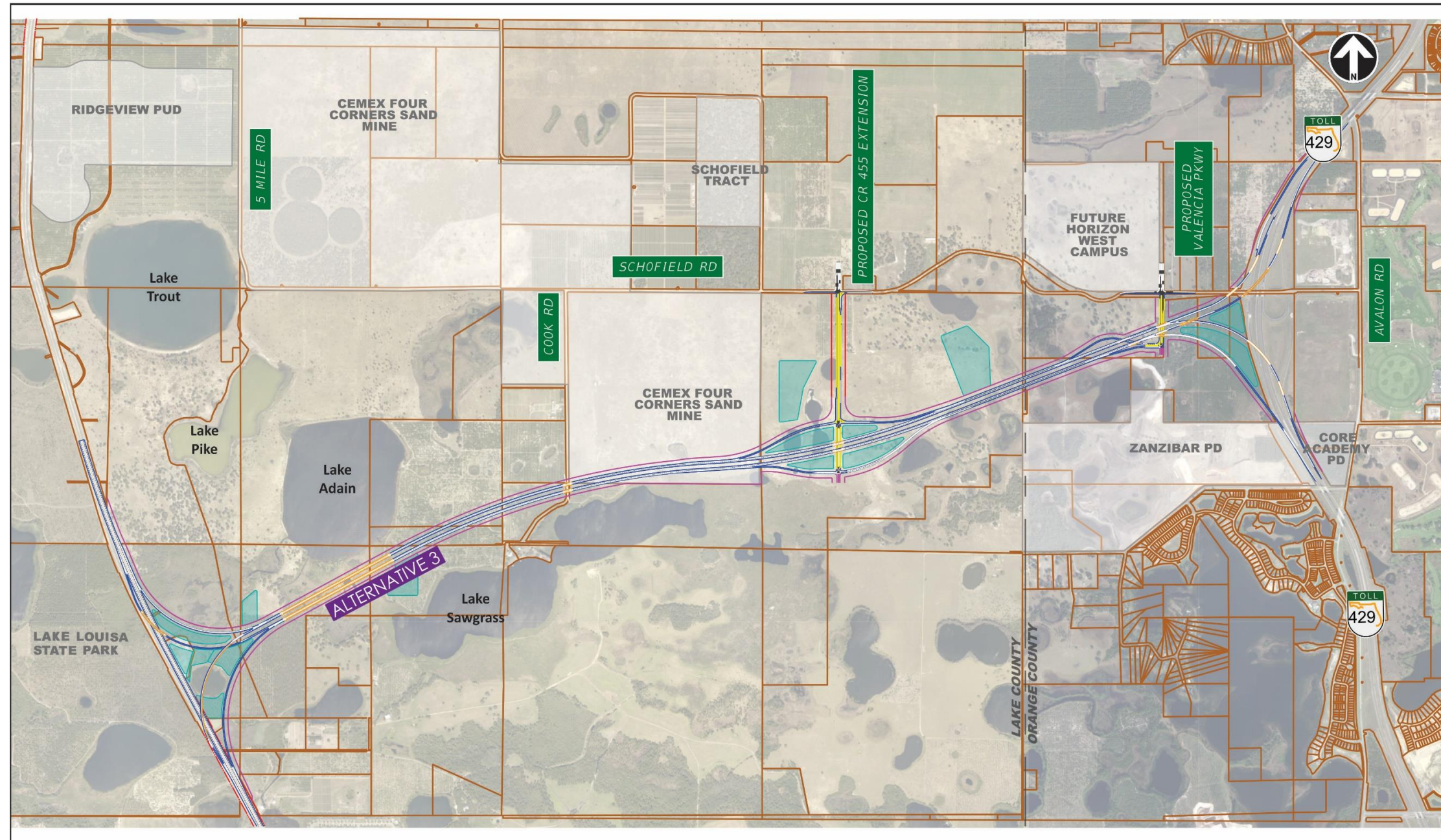
ESTIMATED PROBABLE PROJECT COST

LAKE/ORANGE PD&E STUDY - ALTERNATIVE 3

PREPARED BY METRIC ENGINEERING
LAST UPDATED - APRIL 23, 2019

PROJECT CENTERLINE MILES: 4.444
NUMBER OF BRIDGES: 20

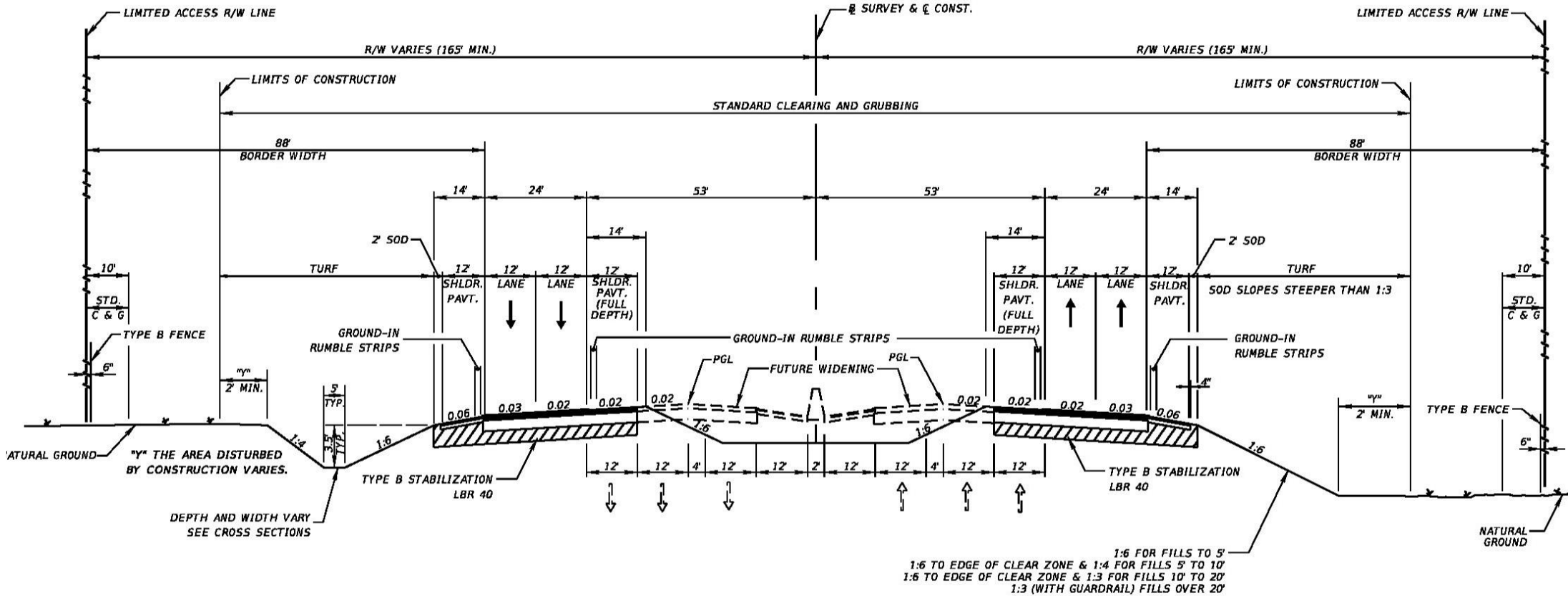
Mainline Roadway		\$139,261,357
US 27 Interchange		\$66,007,355
CR 455 Interchange		\$19,511,134
Valencia Parkway Interchange		\$10,541,188
SR 429 Interchange		\$54,188,895
TOTAL (2019 CONSTRUCTION COST)		\$289,509,928
ENGINEERING / ADMINISTRATION / LEGAL (24%)		\$69,482,383
RIGHT - OF - WAY	369.8 ACRES	\$102,000,000
MITIGATION (WETLAND IMPACT ACERAGE x 0.7 = CREDITS	50.4 CREDITS @ \$ 145,000	\$7,308,000
MITIGATION (GOPHER TORTOISE HABITAT x 3 BURROWS /	828 BURROWS @ \$ 1,300	\$1,076,400
TOLL COLLECTION EQUIPMENT	6 LANES @ \$ 210,000	\$1,260,000
GRAND TOTAL PROJECT COST		\$470,636,711



Quick Facts

Project Alignment Alternative 3

Quick Facts



Project Typical Alternative 1

ESTIMATED PROBABLE CONSTRUCTION COST

Mainline Roadway

PREPARED BY METRIC ENGINEERING

L	ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
	** EXPRESSWAYS **				
	MAINLINE ROADWAY TYPICAL (4 LANE MAINLINE)	2.532	MI	\$6,233,785	\$15,783,849
	MAINLINE ROADWAY TYPICAL (6 LANE MAINLINE) <i>Six lane segment between CR 455 interchange and Valencia Parkway</i>	0.473	MI	\$7,086,629	\$3,350,419
	** BRIDGES **				
	BRIDGES 3A & 3B				
	<u>BRIDGE 3A</u>				
	Connector WB over Sawgrass Lake Wetland area (50.67'x2467') Prestressed Concrete Florida I Beams; Pile Bents	124,995	SF	\$150	\$18,749,250
	<u>BRIDGE 3B</u>				
	Connector EB over Sawgrass Lake Wetland area (50.67'x2467') Prestressed Concrete Florida I Beams; Pile Bents	124,995	SF	\$150	\$18,749,250
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$714,199	\$714,199
	RETAINED EARTH WALL (BEGIN BRIDGE)	3,087	SF	\$34	\$104,971
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$714,199	\$714,199
	RETAINED EARTH WALL (END BRIDGE)	3,087	SF	\$34	\$104,971
	BRIDGES 4A & 4B				
	<u>BRIDGE 4A</u>				
	Connector WB over Cook Road (50.67'x123') Steel Plate Girders; Pile Bents	6,232	SF	\$145	\$903,640
	<u>BRIDGE 4B</u>				
	Connector EB over Cook Road (50.67'x123') Steel Plate Girders; Pile Bents	6,232	SF	\$145	\$903,640
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$714,199	\$714,199
	RETAINED EARTH WALL (BEGIN BRIDGE)	3,153	SF	\$34	\$107,188
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$714,199	\$714,199
	RETAINED EARTH WALL (END BRIDGE)	3,143	SF	\$34	\$106,859
	BRIDGES 5A & 5B				
	<u>BRIDGE 5A</u>				
	Connector WB over CR 455 (50.67'x170') Prestressed Concrete Florida I Beams; Piers/Pile Bents	8,056	SF	\$145	\$1,168,120
	<u>BRIDGE 5B</u>				
	Connector EB over CR 455 (50.67'x170') Prestressed Concrete Florida I Beams; Piers/Pile Bents	8,056	SF	\$145	\$1,168,120
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$714,199	\$714,199
	RETAINED EARTH WALL (BEGIN BRIDGE)	3,142	SF	\$34	\$106,818
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$714,199	\$714,199
	RETAINED EARTH WALL (END BRIDGE)	3,147	SF	\$34	\$106,983
	BRIDGES 6A & 6B				
	<u>BRIDGE 6A</u>				
	Connector WB over Valencia Pkwy Ramp (50.67'x203') Steel Plate Girders; Pile Bents	10,285	SF	\$135	\$1,388,475
	<u>BRIDGE 6B</u>				
	Connector EB over Valencia Pkwy Ramp (50.67'x212') Steel Plate Girders; Pile Bents	10,741	SF	\$135	\$1,450,035
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$714,199	\$714,199
	RETAINED EARTH WALL (BEGIN BRIDGE)	5,578	SF	\$34	\$189,655
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$714,199	\$714,199
	RETAINED EARTH WALL (END BRIDGE)	5,121	SF	\$34	\$174,101
	** ADDITIONAL ITEMS **				
	OVERHEAD SIGN STRUCTURE, SPAN 101-150 FT W/301-400 SF SIGN PANEL	6	EA	\$144,000	\$864,000
	OVERHEAD SIGN STRUCTURE, CANTILEVER 41-50 FT W/ 101-200 SF SIGN PANEL	25	EA	\$67,000	\$1,675,000
	MULTI POST SIGN (12-20 SF)	2	AS	\$4,000	\$8,000
	MULTIPOST SIGN (31-50 SF)	3	AS	\$5,000	\$15,000
	MULTIPOST SIGN (101-200 SF)	4	AS	\$8,000	\$32,000
	FIBER OPTIC NETWORK (FON) (CONDUIT, 72 WIRE, PULL BOXES, SPLICE, ETC.)	4.444	MI	\$350,000	\$1,555,541
	DYNAMIC MESSAGE SIGNS	4	EA	\$250,000	\$1,000,000
	RETENTION POND CONSTRUCTION	49.14	AC	\$177,813	\$8,737,743
	MAINLINE TOLL GANTRY (2 LANE, 2 TRUSSES AND EQUIP. BLDG)	2	EA	\$1,750,000	\$3,500,000

EMBANKMENT	1,069,931	CY	\$8.30	\$8,880,428
REMOVE & REPLACE A-8 MATERIAL (ASSUME 5 CY PER SY OF WETLANDS)	1,355,200	CY	\$5	\$6,776,000
NOISE WALLS (AVERAGE 20 FT HEIGHT)	-	LF	\$520	\$0
SUB-TOTAL				\$103,373,648
EROSION CONTROL / TEMPORARY DRAINAGE (0.5%)				\$516,868
MAINTENANCE OF TRAFFIC (1%)				\$1,033,736
MOBILIZATION (9.5%)				\$9,820,497
SUB-TOTAL ROADWAY				\$63,549,081
ROADWAY CONTINGENCY (20%)				\$12,709,816
SUB-TOTAL BRIDGES				\$51,195,668
BRIDGE CONTINGENCY (10%)				\$5,119,567
SUB-TOTAL				\$132,574,133
AESTHETICS CONTINGENCY (3%)				\$3,977,224
RELOCATE UTILITIES				\$2,160,000
ALLOWANCE FOR DISPUTES REVIEW BOARD				\$50,000
WORK ORDER ALLOWANCE				\$500,000
TOTAL (2019 CONSTRUCTION COST)				\$139,261,357

ESTIMATED PROBABLE CONSTRUCTION COST

US 27 Interchange

PREPARED BY METRIC ENGINEERING

L	ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
	** RAMPS **				
	ONE LANE RAMPS (OPEN DRAINAGE)	2.929	MI	\$1,259,834	\$3,689,829
	TYPICAL 1 LANE ON-RAMP TAPER W/GORE - MAINLINE UNCHANGED	2	EA	\$219,329	\$438,659
	TYPICAL 1 LANE OFF-RAMP TAPER W/GORE - MAINLINE UNCHANGED	4	EA	\$129,358	\$517,432
	** BRIDGES **				
	BRIDGE 1				
	US 27 SB Ramp to Connector EB over US 27 (33'x648')	21,384	SF	\$204	\$4,362,336
	Curved Steel Plate Girders; Straddle/Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$263,754	\$263,754
	RETAINED EARTH WALL (BEGIN BRIDGE)	16,030	SF	\$34	\$545,030
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$263,754	\$263,754
	RETAINED EARTH WALL (END BRIDGE)	2,019	SF	\$34	\$68,651
	BRIDGE 2				
	Connector WB Ramp to US 27 SB over US 27 (33'x2193')	72,369	SF	\$204	\$14,763,276
	Curved Steel Plate Girders; Straddle/Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$263,754	\$263,754
	RETAINED EARTH WALL (BEGIN BRIDGE)	2,064	SF	\$34	\$70,162
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$263,754	\$263,754
	RETAINED EARTH WALL (END BRIDGE)	12,952	SF	\$34	\$440,370
	** ARTERIAL ROADS **				
	ARTERIAL TYPICAL SECTION US 27 (6 LANE DIVIDED)	2.075	MI	\$5,199,279	\$10,787,342
	MEDIAN CROSSOVER - NEW CONSTRUCTION	2	EA	\$8,080	\$16,160
	DEMOLISH EXISTING ARTERIAL ROAD	2.075	MI	\$305,760	\$634,384
	** ADDITIONAL ITEMS **				
	OVERHEAD LIGHTING (INCLUDES WIRING) (1 SIDE, 200' SPACING)	2.929	MI	\$277,400	\$812,455
	OVERHEAD LIGHTING (INCLUDES WIRING) (2 SIDE, 200' SPACING)	2.075	MI	\$554,800	\$1,151,086
	ITS EQUIPMENT / DEVICES PER INTERCHANGE (CCTV, TMS, ETC.)	1.00	INT	\$330,000	\$330,000
	RETENTION POND CONSTRUCTION	23.37	AC	\$177,813	\$4,155,496
	EMBANKMENT	258,453	CY	\$8.30	\$2,145,159
	SUB-TOTAL				\$45,982,844
	EROSION CONTROL / TEMPORARY DRAINAGE (0.5%)				\$229,914
	MAINTENANCE OF TRAFFIC (10%)				\$4,598,284
	MOBILIZATION (9.5%)				\$4,368,370
	SUB-TOTAL BRIDGES				\$21,304,842
	BRIDGE CONTINGENCY (10%)				\$2,130,484
	SUB-TOTAL				\$33,874,570.50
	ROADWAY CONTINGENCY (20%)				\$6,774,914
	SUB-TOTAL				\$64,084,811
	AESTHETICS CONTINGENCY (3%)				\$1,922,544
	TOTAL (2019 CONSTRUCTION COST)				\$66,007,355

ESTIMATED PROBABLE CONSTRUCTION COST

CR 455 Interchange

PREPARED BY METRIC ENGINEERING

L	ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
	** RAMPS **				
	ONE LANE RAMPS (OPEN DRAINAGE)	1.817	MI	\$1,259,834	\$2,288,724
	TWO LANE RAMPS (OPEN DRAINAGE)	0.484	MI	\$1,712,621	\$828,377
	THREE LANE RAMPS (OPEN DRAINAGE)	0.182	MI	\$2,270,992	\$414,353
	TYPICAL 1 LANE ON-RAMP TAPER W/GORE - MAINLINE UNCHANGED	2	EA	\$219,329	\$438,659
	TYPICAL 1 LANE OFF-RAMP TAPER W/GORE - MAINLINE UNCHANGED	2	EA	\$129,358	\$258,716
	** ARTERIAL ROADS **				
	ARTERIAL TYPICAL SECTION - CR 455 EXTENSION	0.601	MI	\$4,271,837	\$2,567,463
	ARTERIAL TYPICAL SECTION - SCHOFIELD RD	0.263	EA	\$1,597,790	\$419,671
	** INTERSECTION SIGNALIZATION **				
	SIGNALIZATION PER INTERCHANGE	3	EA	\$269,948	\$809,844
	** ADDITIONAL ITEMS **				
	OVERHEAD LIGHTING (INCLUDES WIRING) (1 SIDE, 200' SPACING)	2.483	MI	\$277,400	\$688,737
	OVERHEAD LIGHTING (INCLUDES WIRING) (2 SIDE, 200' SPACING)	1.756	MI	\$554,800	\$974,382
	ITS EQUIPMENT / DEVICES PER INTERCHANGE (CCTV, TMS, ETC.)	1.00	INT	\$330,000	\$330,000
	RETENTION POND CONSTRUCTION	20.12	AC	\$177,813	\$3,577,603
	EMBANKMENT	126,683	CY	\$8.30	\$1,051,470
	SUB-TOTAL				\$14,647,998
	EROSION CONTROL / TEMPORARY DRAINAGE (0.5%)				\$73,240
	MAINTENANCE OF TRAFFIC (1%)				\$146,480
	MOBILIZATION (9.5%)				\$1,391,560
	SUB-TOTAL				\$16,259,278
	ROADWAY CONTINGENCY (20%)				\$3,251,856
	TOTAL (2019 CONSTRUCTION COST)				\$19,511,134

ESTIMATED PROBABLE CONSTRUCTION COST

Valencia Parkway Interchange

PREPARED BY METRIC ENGINEERING

L	ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
	** RAMPS **				
	ONE LANE RAMPS (OPEN DRAINAGE)	0.638	MI	\$1,259,834	\$803,695
	TWO LANE RAMPS (OPEN DRAINAGE)	0.142	MI	\$1,712,621	\$243,455
	THREE LANE RAMPS (OPEN DRAINAGE)	0.064	MI	\$2,270,992	\$145,438
	TYPICAL 1 LANE ON-RAMP TAPER W/GORE - MAINLINE UNCHANGED	1	EA	\$219,329	\$219,329
	TYPICAL 1 LANE OFF-RAMP TAPER W/GORE - MAINLINE UNCHANGED	1	EA	\$129,358	\$129,358
	** ARTERIAL ROADS **				
	ARTERIAL TYPICAL SECTION - VALENCIA PARKWAY	0.486	MI	\$4,271,837	\$2,077,860
	VALENCIA PARKWAY TURN LANES	0.180	MI	\$389,257	\$70,220
	ARTERIAL TYPICAL SECTION - SCHOFIELD RD	0.290	MI	\$1,597,790	\$464,100
	DEMOLISH EXISTING ARTERIAL ROAD - SCHOFIELD RD	0.290	MI	\$305,760	\$88,812
	** INTERSECTION SIGNALIZATION **				
	SIGNALIZATION PER INTERCHANGE	2	EA	\$142,064	\$284,128
	** ADDITIONAL ITEMS **				
	OVERHEAD LIGHTING (INCLUDES WIRING) (1 SIDE, 200' SPACING)	0.844	MI	\$277,400	\$234,162
	OVERHEAD LIGHTING (INCLUDES WIRING) (2 SIDE, 200' SPACING)	1.079	MI	\$554,800	\$598,828
	ITS EQUIPMENT / DEVICES PER INTERCHANGE (CCTV, TMS, ETC.)	1.00	INT	\$330,000	\$330,000
	EMBANKMENT	268,002	CY	\$8.30	\$2,224,418
	SUB-TOTAL				\$7,913,805
	EROSION CONTROL / TEMPORARY DRAINAGE (0.5%)				\$39,569
	MAINTENANCE OF TRAFFIC (1%)				\$79,138
	MOBILIZATION (9.5%)				\$751,811
	SUB-TOTAL				\$8,784,323
	ROADWAY CONTINGENCY (20%)				\$1,756,865
	TOTAL (2019 CONSTRUCTION COST)				\$10,541,188

ESTIMATED PROBABLE CONSTRUCTION COST

SR 429 Interchange

PREPARED BY METRIC ENGINEERING

L	ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
	** RAMPS **				
	ONE LANE RAMPS (OPEN DRAINAGE)	3,184	MI	\$1,259,834	\$4,011,139
	TYPICAL 1 LANE ON-RAMP TAPER W/GORE - MAINLINE UNCHANGED	1	EA	\$219,329	\$219,329
	TYPICAL 1 LANE OFF-RAMP TAPER W/GORE - MAINLINE UNCHANGED	1	EA	\$129,358	\$129,358
	** BRIDGES **				
	BRIDGE 7A				
	Connector WB over Valencia Pkwy (48.53'x181')	7,862	SF	\$145	\$1,139,990
	Prestressed Concrete Florida I Beams; Multicolumn/Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$215,734	\$215,734
	RETAINED EARTH WALL (BEGIN BRIDGE)	1,615	SF	\$34	\$54,914
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$215,734	\$215,734
	RETAINED EARTH WALL (END BRIDGE)	1,615	SF	\$34	\$54,914
	BRIDGE 7B				
	Connector EB to SR 429 NB over Valencia Pkwy (29.67'x175')	4,895	SF	\$145	\$709,775
	Prestressed Concrete Florida I Beams; Multicolumn/Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$188,454	\$188,454
	RETAINED EARTH WALL (BEGIN BRIDGE)	1,003	SF	\$34	\$34,113
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$188,454	\$188,454
	RETAINED EARTH WALL (END BRIDGE)	1,209	SF	\$34	\$41,108
	BRIDGE 7C				
	Connector EB to SR 429 SB over Valencia Pkwy (32.67'x159')	5,194	SF	\$145	\$753,130
	Prestressed Concrete Florida I Beams; Multicolumn/Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$178,597	\$178,597
	RETAINED EARTH WALL (BEGIN BRIDGE)	1,003	SF	\$34	\$34,113
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$178,597	\$178,597
	RETAINED EARTH WALL (END BRIDGE)	1,209	SF	\$34	\$41,108
	BRIDGE 8				
	Connector EB over SR 429 NB Ramp to Connector WB (29.67'x327')	9,701	SF	\$135	\$1,309,635
	Steel Plate Girders; Straddle/Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$188,454	\$188,454
	RETAINED EARTH WALL (BEGIN BRIDGE)	1,971	SF	\$34	\$67,010
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$188,454	\$188,454
	RETAINED EARTH WALL (END BRIDGE)	1,971	SF	\$34	\$67,010
	BRIDGE 9				
	SR 429 SB Ramp to Connector WB over Schofield Rd (31'x219')	6,789	SF	\$186	\$1,262,754
	Curved Steel Plate Girders; Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$198,511	\$198,511
	RETAINED EARTH WALL (BEGIN BRIDGE)	3,458	SF	\$34	\$117,559
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$198,511	\$198,511
	RETAINED EARTH WALL (END BRIDGE)	1,982	SF	\$34	\$67,399
	BRIDGE 10				
	SR 429 SB Ramp to Connector WB over SR 429 SB off Ramp (31'x334')	10,354	SF	\$204	\$2,112,216
	Curved Steel Plate Girders; Straddle/Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$198,511	\$198,511
	RETAINED EARTH WALL (BEGIN BRIDGE)	11,009	SF	\$34	\$374,303
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$198,511	\$198,511
	RETAINED EARTH WALL (END BRIDGE)	3,458	SF	\$34	\$117,559
	BRIDGE 11				
	Connector EB Ramp to SR 429 NB over Schofield Rd and SR 429 (30'x1004')	30,120	SF	\$215	\$6,460,740
	Curved Steel Plate Girders; Piers/Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$263,754	\$263,754
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$263,754	\$263,754
	RETAINED EARTH WALL (END BRIDGE)	4,603	SF	\$34	\$156,497
	BRIDGE 12				
	Connector EB Ramp to SR 429 NB over SR 429 NB on Ramp (30'x261')	7,830	SF	\$186	\$1,456,380
	Curved Steel Plate Girders; Pile Bents				
	EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$263,754	\$263,754
	RETAINED EARTH WALL (BEGIN BRIDGE)	4,603	SF	\$34	\$156,497
	EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$263,754	\$263,754
	RETAINED EARTH WALL (END BRIDGE)	4,727	SF	\$34	\$160,708

BRIDGE 13				
SR 429 NB Ramp to Connector WB over SR 429 (31'x618')	19,158	SF	\$198	\$3,793,284
Curved Steel Plate Girders; Piers/Pile Bents				
EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$198,511	\$198,511
RETAINED EARTH WALL (BEGIN BRIDGE)	1,982	SF	\$34	\$67,399
EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$198,511	\$198,511
RETAINED EARTH WALL (END BRIDGE)	5,375	SF	\$34	\$182,748
BRIDGE 14				
SR 429 NB Ramp to Connector WB over SR 429 NB off Ramp (30'x227')	6,810	SF	\$162	\$1,103,220
Steel Plate Girders; Pile Bents				
EXTRA MATERIAL - ELEVATED ROADWAY (BEGIN BRIDGE)	1	EA	\$263,754	\$263,754
RETAINED EARTH WALL (BEGIN BRIDGE)	5,375	SF	\$34	\$182,748
EXTRA MATERIAL - ELEVATED ROADWAY (END BRIDGE)	1	EA	\$263,754	\$263,754
RETAINED EARTH WALL (END BRIDGE)	4,715	SF	\$34	\$160,319
** ADDITIONAL ITEMS **				
OVERHEAD LIGHTING (INCLUDES WIRING) (1 SIDE, 200' SPACING)	3.184	MI	\$277,400	\$883,204
ITS EQUIPMENT / DEVICES PER INTERCHANGE (CCTV, TMS, ETC.)	1.00	INT	\$330,000	\$330,000
RETENTION POND CONSTRUCTION	16.02	AC	\$177,813	\$2,848,466
EMBANKMENT	409,942	CY	\$8.30	\$3,402,522
SUB-TOTAL				\$38,379,236
EROSION CONTROL / TEMPORARY DRAINAGE (0.5%)				\$191,896
MAINTENANCE OF TRAFFIC (10%)				\$3,837,924
MOBILIZATION (9.5%)				\$3,646,027
SUB-TOTAL BRIDGES				\$26,555,218
BRIDGE CONTINGENCY (10%)				\$2,655,522
SUB-TOTAL				\$19,499,865.3
ROADWAY CONTINGENCY (20%)				\$3,899,973
SUB-TOTAL				\$52,610,577.66
AESTHETICS CONTINGENCY (3%)				\$1,578,317
TOTAL (2019 CONSTRUCTION COST)				\$54,188,895

**TYPICAL XWAY / CROSSROAD
BRIDGE APPROACH - RURAL - 2:1 SLOPE**

TOTAL OUT-TO-OUT WIDTH OF BRIDGE APPROACH >>>>>>>	50.67	FT	
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>>	23	FT	1.37% = 1314'
AVERAGE % OF APPROACH SLOPE >>>>>>>	0.918%		3.00% = 600'
ROADWAY WIDTH AT GRADE >>>>>>>	41.67	FT	
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>>	3.5	FT	
L COST OF BRIDGE APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>			\$714,199
MEDIAN? (ENTER Y OR N) >>>>>>>	Y		
CROSSDRAIN WIDTH >>>>>>>	52		
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>	2,124	LF	
FEET FROM TOUCHDOWN TO 10' HEIGHT >>>>>>>	708	LF	
DISTANCE OF APPROACH ABOVE 10' HEIGHT (GR & SHO GUT L) >>>>>>>	1,416	LF	
APPROACH SLAB WIDTH >>>>>>>	30	FT	

ORIGINAL BRIDGE APPROACH WIDTH >>>>>>>	0	FT
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>>	0.0	FT
AVERAGE % OF APPROACH SLOPE >>>>>>>	0.92%	
ROADWAY WIDTH AT GRADE >>>>>>>	0	FT
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>>	0.0	FT
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>	0	LF

**** RETAINING WALL AUTOMATIC CALCULATION ****

BRIDGE HEIGHT >>>>>>>	23	
BRIDGE WIDTH (OUT-TO-OUT INCLUDING MEDIAN) >>>>>>>	50.67	EXTRA FOR SKEW
SKEW? (ENTER Y or N) >>>>>>>	N	0 SF
TOTAL RE-WALL >>>>>>>	1,970	SF

CUSTOM BRIDGE APPROACH - RURAL 2:1 SLOPE

DRAINAGE SIDES **2**

BORROW EMBANKMENT	80,761	CY	\$0.00	\$0.00
LESS EXISTING EMBANKMENT	0	CY	(\$8.30)	\$0.00
EXCAVATE EXCESS FILL (IF > 0)	(80,761)	CY	\$5.30	\$0.00
COLLECTOR PIPE (24" RCP)	2800	LF	\$70.00	\$196,000.00
CMP OUTLET PIPE (18" CMP)	700	LF	\$35.00	\$24,500.00
CROSSDRAINS (18" RCP)	728	LF	\$35.00	\$25,480.00
DITCH BOTTOM INLETS	14	EA	\$5,000.00	\$70,000.00
INLET (TYPE S)	28	EA	\$3,500.00	\$98,000.00
MITERED END SECTIONS	14	EA	\$5,000.00	\$70,000.00
SOD	26,130	SY	\$1.50	\$39,195.00
SHOULDER GUTTER (LESS S INLETS)	5,515	LF	\$24.00	\$132,365.09
GUARDRAIL (OUTSIDE ONLY, NOT IN MEDIAN)	5,665	LF	\$4.00	\$22,658.93
APPROACH SLABS	2	EA	\$18,000.00	\$36,000.00

TOTAL \$ EA **\$714,199.02**

**TYPICAL XWAY / CROSSROAD
BRIDGE APPROACH - RURAL - 2:1 SLOPE**

TOTAL OUT-TO-OUT WIDTH OF BRIDGE APPROACH >>>>>>>	48.53	FT	
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>>	23	FT	1.37% = 1314'
AVERAGE % OF APPROACH SLOPE >>>>>>>	3.000%		3.00% = 600'
ROADWAY WIDTH AT GRADE >>>>>>>	39.53	FT	
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>>	3.5	FT	
L COST OF BRIDGE APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>			\$215,734
MEDIAN? (ENTER Y OR N) >>>>>>>	Y		
CROSSDRAIN WIDTH >>>>>>>	52		
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>	650	LF	
FEET FROM TOUCHDOWN TO 10' HEIGHT >>>>>>>	217	LF	
DISTANCE OF APPROACH ABOVE 10' HEIGHT (GR & SHO GUT L) >>>>>>>	433	LF	
APPROACH SLAB WIDTH >>>>>>>	30	FT	

ORIGINAL BRIDGE APPROACH WIDTH >>>>>>>	0	FT
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>>	0.0	FT
AVERAGE % OF APPROACH SLOPE >>>>>>>	3.00%	
ROADWAY WIDTH AT GRADE >>>>>>>	0	FT
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>>	0.0	FT
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>	0	LF

**** RETAINING WALL AUTOMATIC CALCULATION ****

BRIDGE HEIGHT >>>>>>>	23	
BRIDGE WIDTH (OUT-TO-OUT INCLUDING MEDIAN) >>>>>>>	48.53	EXTRA FOR SKEW
SKEW? (ENTER Y or N) >>>>>>>	N	0 SF
TOTAL RE-WALL >>>>>>>	1,932	SF

CUSTOM BRIDGE APPROACH - RURAL 2:1 SLOPE

DRAINAGE SIDES **2**

BORROW EMBANKMENT	24,211	CY	\$0.00	\$0.00
LESS EXISTING EMBANKMENT	0	CY	(\$8.30)	\$0.00
EXCAVATE EXCESS FILL (IF > 0)	(24,211)	CY	\$5.30	\$0.00
COLLECTOR PIPE (24" RCP)	800	LF	\$70.00	\$56,000.00
CMP OUTLET PIPE (18" CMP)	200	LF	\$35.00	\$7,000.00
CROSSDRAINS (18" RCP)	208	LF	\$35.00	\$7,280.00
DITCH BOTTOM INLETS	4	EA	\$5,000.00	\$20,000.00
INLET (TYPE S)	8	EA	\$3,500.00	\$28,000.00
MITERED END SECTIONS	4	EA	\$5,000.00	\$20,000.00
SOD	7,989	SY	\$1.50	\$11,983.50
SHOULDER GUTTER (LESS S INLETS)	1,689	LF	\$24.00	\$40,542.72
GUARDRAIL (OUTSIDE ONLY, NOT IN MEDIAN)	1,732	LF	\$4.00	\$6,928.00
APPROACH SLABS	1	EA	\$18,000.00	\$18,000.00

TOTAL \$ EA **\$215,734.22**

XWAY & RAMP

BRIDGE APPROACH - RURAL - 2:1 SLOPE

TOTAL OUT-TO-OUT WIDTH OF BRIDGE APPROACH >>>>>>	33	FT	
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>	27	FT	1.37% = 1314'
AVERAGE % OF APPROACH SLOPE >>>>>>	3.000%		3.00% = 600'
ROADWAY WIDTH AT GRADE >>>>>>	24	FT	
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>	3.5	FT	
L COST OF BRIDGE APPROACH (AUTOMATICALLY CALCULATED) >>>>>>			\$263,754
MEDIAN? (ENTER Y OR N) >>>>>>	N		
CROSSDRAIN WIDTH >>>>>>	0		
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>	783	LF	
FEET FROM TOUCHDOWN TO 10' HEIGHT >>>>>>	217	LF	
DISTANCE OF APPROACH ABOVE 10' HEIGHT (GR & SHO GUT L) >>>>>>	566	LF	
APPROACH SLAB WIDTH >>>>>>	30	FT	

ORIGINAL BRIDGE APPROACH WIDTH >>>>>>	0	FT
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>	0.0	FT
AVERAGE % OF APPROACH SLOPE >>>>>>	3.00%	
ROADWAY WIDTH AT GRADE >>>>>>	0	FT
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>	0.0	FT
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>	0	LF

**** RETAINING WALL AUTOMATIC CALCULATION ****

BRIDGE HEIGHT >>>>>>	27		
BRIDGE WIDTH (OUT-TO-OUT INCLUDING MEDIAN) >>>>>>	33		EXTRA FOR SKEW
SKEW? (ENTER Y or N) >>>>>>	Y		301 SF
TOTAL RE-WALL >>>>>>	2,485	SF	

CUSTOM BRIDGE APPROACH - RURAL 2:1 SLOPE

DRAINAGE SIDES **2**

BORROW EMBANKMENT	32,501	CY	\$0.00	\$0.00
LESS EXISTING EMBANKMENT	0	CY	(\$8.30)	\$0.00
EXCAVATE EXCESS FILL (IF > 0)	(32,501)	CY	\$5.30	\$0.00
COLLECTOR PIPE (24" RCP)	1200	LF	\$70.00	\$84,000.00
CMP OUTLET PIPE (18" CMP)	300	LF	\$35.00	\$10,500.00
CROSSDRAINS (18" RCP)	0	LF	\$35.00	\$0.00
DITCH BOTTOM INLETS	0	EA	\$5,000.00	\$0.00
INLET (TYPE S)	12	EA	\$3,500.00	\$42,000.00
MITERED END SECTIONS	6	EA	\$5,000.00	\$30,000.00
SOD	11,575	SY	\$1.50	\$17,362.50
SHOULDER GUTTER (LESS S INLETS)	2,201	LF	\$24.00	\$52,830.08
GUARDRAIL (OUTSIDE ONLY, NOT IN MEDIAN)	2,265	LF	\$4.00	\$9,061.33
APPROACH SLABS	1	EA	\$18,000.00	\$18,000.00

TOTAL \$ EA **\$263,753.91**

XWAY & RAMP

BRIDGE APPROACH - RURAL - 2:1 SLOPE

TOTAL OUT-TO-OUT WIDTH OF BRIDGE APPROACH >>>>>>	32.67	FT	
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>	21	FT	1.37% = 1314'
AVERAGE % OF APPROACH SLOPE >>>>>>	3.000%		3.00% = 60'
ROADWAY WIDTH AT GRADE >>>>>>	23.67	FT	
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>	3.5	FT	
L COST OF BRIDGE APPROACH (AUTOMATICALLY CALCULATED) >>>>>>			\$178,597
MEDIAN? (ENTER Y OR N) >>>>>>	N		
CROSSDRAIN WIDTH >>>>>>	0		
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>	583	LF	
FEET FROM TOUCHDOWN TO 10' HEIGHT >>>>>>	217	LF	
DISTANCE OF APPROACH ABOVE 10' HEIGHT (GR & SHO GUT L) >>>>>>	366	LF	
APPROACH SLAB WIDTH >>>>>>	30	FT	

ORIGINAL BRIDGE APPROACH WIDTH >>>>>>	0	FT
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>	0.0	FT
AVERAGE % OF APPROACH SLOPE >>>>>>	3.00%	
ROADWAY WIDTH AT GRADE >>>>>>	0	FT
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>	0.0	FT
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>	0	LF

**** RETAINING WALL AUTOMATIC CALCULATION ****

BRIDGE HEIGHT >>>>>>	21	
BRIDGE WIDTH (OUT-TO-OUT INCLUDING MEDIAN) >>>>>>	32.67	EXTRA FOR SKEW
SKEW? (ENTER Y or N) >>>>>>	Y	217 SF
TOTAL RE-WALL >>>>>>	1,621	SF

CUSTOM BRIDGE APPROACH - RURAL 2:1 SLOPE

DRAINAGE SIDES **2**

BORROW EMBANKMENT	15,779	CY	\$0.00	\$0.00
LESS EXISTING EMBANKMENT	0	CY	(\$8.30)	\$0.00
EXCAVATE EXCESS FILL (IF > 0)	(15,779)	CY	\$5.30	\$0.00
COLLECTOR PIPE (24" RCP)	800	LF	\$70.00	\$56,000.00
CMP OUTLET PIPE (18" CMP)	200	LF	\$35.00	\$7,000.00
CROSSDRAINS (18" RCP)	0	LF	\$35.00	\$0.00
DITCH BOTTOM INLETS	0	EA	\$5,000.00	\$0.00
INLET (TYPE S)	8	EA	\$3,500.00	\$28,000.00
MITERED END SECTIONS	4	EA	\$5,000.00	\$20,000.00
SOD	6,395	SY	\$1.50	\$9,592.50
SHOULDER GUTTER (LESS S INLETS)	1,423	LF	\$24.00	\$34,142.72
GUARDRAIL (OUTSIDE ONLY, NOT IN MEDIAN)	1,465	LF	\$4.00	\$5,861.33
APPROACH SLABS	1	EA	\$18,000.00	\$18,000.00

TOTAL \$ EA **\$178,596.55**

XWAY & RAMP

BRIDGE APPROACH - RURAL - 2:1 SLOPE

TOTAL OUT-TO-OUT WIDTH OF BRIDGE APPROACH >>>>>>	31	FT	
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>	25	FT	1.37% = 1314'
AVERAGE % OF APPROACH SLOPE >>>>>>	3.000%		3.00% = 600'
ROADWAY WIDTH AT GRADE >>>>>>	22	FT	
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>	3.5	FT	
COST OF BRIDGE APPROACH (AUTOMATICALLY CALCULATED) >>>>>>			\$198,511
MEDIAN? (ENTER Y OR N) >>>>>>	N		
CROSSDRAIN WIDTH >>>>>>	0		
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>	717	LF	
FEET FROM TOUCHDOWN TO 10' HEIGHT >>>>>>	217	LF	
DISTANCE OF APPROACH ABOVE 10' HEIGHT (GR & SHO GUT L) >>>>>>	500	LF	
APPROACH SLAB WIDTH >>>>>>	30	FT	

ORIGINAL BRIDGE APPROACH WIDTH >>>>>>	0	FT
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>	0.0	FT
AVERAGE % OF APPROACH SLOPE >>>>>>	3.00%	
ROADWAY WIDTH AT GRADE >>>>>>	0	FT
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>	0.0	FT
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>	0	LF

**** RETAINING WALL AUTOMATIC CALCULATION ****

BRIDGE HEIGHT >>>>>>	25	
BRIDGE WIDTH (OUT-TO-OUT INCLUDING MEDIAN) >>>>>>	31	EXTRA FOR SKEW
SKEW? (ENTER Y or N) >>>>>>	Y	257 SF
TOTAL RE-WALL >>>>>>	2,127	SF

CUSTOM BRIDGE APPROACH - RURAL 2:1 SLOPE

DRAINAGE SIDES **2**

BORROW EMBANKMENT	25,528	CY	\$0.00	\$0.00
LESS EXISTING EMBANKMENT	0	CY	(\$8.30)	\$0.00
EXCAVATE EXCESS FILL (IF > 0)	(25,528)	CY	\$5.30	\$0.00
COLLECTOR PIPE (24" RCP)	800	LF	\$70.00	\$56,000.00
CMP OUTLET PIPE (18" CMP)	200	LF	\$35.00	\$7,000.00
CROSSDRAINS (18" RCP)	0	LF	\$35.00	\$0.00
DITCH BOTTOM INLETS	0	EA	\$5,000.00	\$0.00
INLET (TYPE S)	8	EA	\$3,500.00	\$28,000.00
MITERED END SECTIONS	4	EA	\$5,000.00	\$20,000.00
SOD	9,716	SY	\$1.50	\$14,574.00
SHOULDER GUTTER (LESS S INLETS)	1,956	LF	\$24.00	\$46,942.72
GUARDRAIL (OUTSIDE ONLY, NOT IN MEDIAN)	1,999	LF	\$4.00	\$7,994.67
APPROACH SLABS	1	EA	\$18,000.00	\$18,000.00

TOTAL \$ EA **\$198,511.39**

XWAY & RAMP

BRIDGE APPROACH - RURAL - 2:1 SLOPE

TOTAL OUT-TO-OUT WIDTH OF BRIDGE APPROACH >>>>>>>	30	FT	
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>>	27	FT	1.37% = 1314'
AVERAGE % OF APPROACH SLOPE >>>>>>>	3.000%		3.00% = 600'
ROADWAY WIDTH AT GRADE >>>>>>>	21	FT	
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>>	3.5	FT	
L COST OF BRIDGE APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>			\$263,754
MEDIAN? (ENTER Y OR N) >>>>>>>	N		
CROSSDRAIN WIDTH >>>>>>>	0		
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>	783	LF	
FEET FROM TOUCHDOWN TO 10' HEIGHT >>>>>>>	217	LF	
DISTANCE OF APPROACH ABOVE 10' HEIGHT (GR & SHO GUT L) >>>>>>>	566	LF	
APPROACH SLAB WIDTH >>>>>>>	30	FT	

ORIGINAL BRIDGE APPROACH WIDTH >>>>>>>	0	FT
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>>	0.0	FT
AVERAGE % OF APPROACH SLOPE >>>>>>>	3.00%	
ROADWAY WIDTH AT GRADE >>>>>>>	0	FT
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>>	0.0	FT
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>>	0	LF

**** RETAINING WALL AUTOMATIC CALCULATION ****

BRIDGE HEIGHT >>>>>>>	27	
BRIDGE WIDTH (OUT-TO-OUT INCLUDING MEDIAN) >>>>>>>	30	EXTRA FOR SKEW
SKEW? (ENTER Y or N) >>>>>>>	Y	273 SF
TOTAL RE-WALL >>>>>>>	2,391	SF

CUSTOM BRIDGE APPROACH - RURAL 2:1 SLOPE

DRAINAGE SIDES **2**

BORROW EMBANKMENT	31,478	CY	\$0.00	\$0.00
LESS EXISTING EMBANKMENT	0	CY	(\$8.30)	\$0.00
EXCAVATE EXCESS FILL (IF > 0)	(31,478)	CY	\$5.30	\$0.00
COLLECTOR PIPE (24" RCP)	1200	LF	\$70.00	\$84,000.00
CMP OUTLET PIPE (18" CMP)	300	LF	\$35.00	\$10,500.00
CROSSDRAINS (18" RCP)	0	LF	\$35.00	\$0.00
DITCH BOTTOM INLETS	0	EA	\$5,000.00	\$0.00
INLET (TYPE S)	12	EA	\$3,500.00	\$42,000.00
MITERED END SECTIONS	6	EA	\$5,000.00	\$30,000.00
SOD	11,575	SY	\$1.50	\$17,362.50
SHOULDER GUTTER (LESS S INLETS)	2,201	LF	\$24.00	\$52,830.08
GUARDRAIL (OUTSIDE ONLY, NOT IN MEDIAN)	2,265	LF	\$4.00	\$9,061.33
APPROACH SLABS	1	EA	\$18,000.00	\$18,000.00

TOTAL \$ EA **\$263,753.91**

XWAY & RAMP

BRIDGE APPROACH - RURAL - 2:1 SLOPE

TOTAL OUT-TO-OUT WIDTH OF BRIDGE APPROACH >>>>>>	29.67	FT	
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>	23	FT	1.37% = 1314'
AVERAGE % OF APPROACH SLOPE >>>>>>	3.000%		3.00% = 60'
ROADWAY WIDTH AT GRADE >>>>>>	20.67	FT	
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>	3.5	FT	
L COST OF BRIDGE APPROACH (AUTOMATICALLY CALCULATED) >>>>>>			\$188,454
MEDIAN? (ENTER Y OR N) >>>>>>	N		
CROSSDRAIN WIDTH >>>>>>	0		
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>	650	LF	
FEET FROM TOUCHDOWN TO 10' HEIGHT >>>>>>	217	LF	
DISTANCE OF APPROACH ABOVE 10' HEIGHT (GR & SHO GUT L) >>>>>>	433	LF	
APPROACH SLAB WIDTH >>>>>>	30	FT	

ORIGINAL BRIDGE APPROACH WIDTH >>>>>>	0	FT
TOTAL BRIDGE EMBANKMENT HEIGHT >>>>>>	0.0	FT
AVERAGE % OF APPROACH SLOPE >>>>>>	3.00%	
ROADWAY WIDTH AT GRADE >>>>>>	0	FT
TOTAL EMBANKMENT HEIGHT AT GRADE >>>>>>	0.0	FT
LENGTH OF APPROACH (AUTOMATICALLY CALCULATED) >>>>>>	0	LF

**** RETAINING WALL AUTOMATIC CALCULATION ****

BRIDGE HEIGHT >>>>>>	23	
BRIDGE WIDTH (OUT-TO-OUT INCLUDING MEDIAN) >>>>>>	29.67	EXTRA FOR SKEW
SKEW? (ENTER Y or N) >>>>>>	Y	221 SF
TOTAL RE-WALL >>>>>>	1,813	SF

CUSTOM BRIDGE APPROACH - RURAL 2:1 SLOPE

DRAINAGE SIDES **2**

BORROW EMBANKMENT	19,784	CY	\$0.00	\$0.00
LESS EXISTING EMBANKMENT	0	CY	(\$8.30)	\$0.00
EXCAVATE EXCESS FILL (IF > 0)	(19,784)	CY	\$5.30	\$0.00
COLLECTOR PIPE (24" RCP)	800	LF	\$70.00	\$56,000.00
CMP OUTLET PIPE (18" CMP)	200	LF	\$35.00	\$7,000.00
CROSSDRAINS (18" RCP)	0	LF	\$35.00	\$0.00
DITCH BOTTOM INLETS	0	EA	\$5,000.00	\$0.00
INLET (TYPE S)	8	EA	\$3,500.00	\$28,000.00
MITERED END SECTIONS	4	EA	\$5,000.00	\$20,000.00
SOD	7,989	SY	\$1.50	\$11,983.50
SHOULDER GUTTER (LESS S INLETS)	1,689	LF	\$24.00	\$40,542.72
GUARDRAIL (OUTSIDE ONLY, NOT IN MEDIAN)	1,732	LF	\$4.00	\$6,928.00
APPROACH SLABS	1	EA	\$18,000.00	\$18,000.00

TOTAL \$ EA **\$188,454.22**

BRIDGE COST ESTIMATE - ALTERNATIVE 3

Bridge No.	Bridge Location/Description	Possible Superstructure				Possible Substructure		Total Superstructure Depth (FT)	No. of Spans	Total Bridge Length (FT)	Average Bridge Width (FT)	Deck Area (SF)	Base Bridge \$/SF (SDG 9.2.3)	% Increase for Special Construction	Bridge \$/SF	Approach Slab Area (SF)	Approach Slab \$/CY	Estimated Cost
		Anticipated Type	Min. Cl. Radius (FT)	Max. Span Length (FT)	Approximate Depth (FT)	Anticipated Type	Approximate Depth below Superstructure (FT)											
1	US27 SB Ramp to Connector EB over US27	Curved Steel Plate Girders	1643.00	249	7.97	Straddle / Pile Bents	2.00	9.97	3	648	33.00	21384	170	20%	204	1980	600	\$ 4,406,336
2	Connector WB Ramp to US27 SB over US27 and pond	Curved Steel Plate Girders	1643.00	206	6.59	Straddle / Pile Bents	2.00	8.59	11	2193	33.00	72369	170	20%	204	1980	600	\$ 14,807,276
3A	Connector WB over Sawgrass Lake Wetland area	Prestressed Concrete Florida I Beams	N/A	103	4.75	Piers / Pile Bents	0.00	4.75	24	2467	50.67	124995	145	3%	150	3040	600	\$ 18,816,756
3B	Connector EB over Sawgrass Lake Wetland area	Prestressed Concrete Florida I Beams	N/A	103	4.75	Piers / Pile Bents	0.00	4.75	24	2467	50.67	124995	145	3%	150	3040	600	\$ 18,816,756
4A	Connector WB over Cook Road	Prestressed Concrete Florida I Beams	15065.00	123	5.50	Pile Bents	0.00	5.50	1	123	50.67	6232	145	0%	145	3040	600	\$ 971,196
4B	Connector EB over Cook Road	Prestressed Concrete Florida I Beams	14935.00	123	5.50	Pile Bents	0.00	5.50	1	123	50.67	6232	145	0%	145	3040	600	\$ 971,196
5A	Connector WB over CR 455	Prestressed Concrete Florida I Beams	14935.00	80	4.00	Piers / Pile Bents	0.00	4.00	2	159	50.67	8056	145	0%	145	3040	600	\$ 1,235,676
5B	Connector EB over CR 455	Prestressed Concrete Florida I Beams	15065.00	80	4.00	Piers / Pile Bents	0.00	4.00	2	159	50.67	8056	145	0%	145	3040	600	\$ 1,235,676
6A	Connector WB over Valencia Parkway Ramp	Steel Plate Girders	N/A	203	8.12	Pile Bents	0.00	8.12	1	203	50.67	10285	135	0%	135	3040	600	\$ 1,456,076
6B	Connector EB over Valencia Parkway Ramp	Steel Plate Girders	N/A	212	8.48	Pile Bents	0.00	8.48	1	212	50.67	10741	135	0%	135	3040	600	\$ 1,517,636
7A	Connector WB over Valencia Parkway	Prestressed Concrete Florida I Beams	1923.00	82	5.50	Multicolumn / Pile Bents	0.00	5.50	2	162	48.53	7862	145	0%	145	3055	600	\$ 1,207,859
7B	Connector EB to SR 429 NB over Valencia Parkway	Prestressed Concrete Florida I Beams	N/A	83	4.75	Multicolumn / Pile Bents	0.00	4.75	2	165	29.67	4895	145	0%	145	1780	600	\$ 749,331
7C	Connector EB to SR 429 SB over Valencia Parkway	Prestressed Concrete Florida I Beams	1643.00	83	4.00	Multicolumn / Pile Bents	0.00	4.00	2	159	32.67	5194	145	0%	145	1960	600	\$ 796,686
8	Connector EB over SR 429 NB Ramp to Connector WB	Steel Plate Girders	N/A	164	5.25	Straddle / Pile Bents	2.00	7.25	2	327	29.67	9701	135	0%	135	1780	600	\$ 1,349,191
9	SR 429 SB Ramp to Connector WB over Schofield Rd	Curved Steel Plate Girders	1917.00	219	8.76	Pile Bents	0.00	8.76	1	219	31.00	6789	155	20%	186	1860	600	\$ 1,304,087
10	SR 429 SB Ramp to Connector WB over SR 429 SB off Ramp	Curved Steel Plate Girders	1917	167	5.34	Straddle / Pile Bents	2.00	7.34	2	334	31.00	10354	170	20%	204	1860	600	\$ 2,153,549
11	Connector EB Ramp to SR 429 NB over Schofield Rd and SR 429	Curved Steel Plate Girders	2299.5	275	8.80	Piers / Pile Bents	0.00	8.80	4	1004	30.00	30120	165	30%	215	1800	600	\$ 6,515,800
12	Connector EB Ramp to SR 429 NB over SR 429 NB on Ramp	Curved Steel Plate Girders	2299.50	261	10.44	Pile Bents	0.00	10.44	1	261	30.00	7830	155	20%	186	1800	600	\$ 1,496,380
13	SR 429 NB Ramp to Connector WB over SR 429	Curved Steel Plate Girders	1917	229	7.33	Piers / Pile Bents	0.00	7.33	3	618	31.00	19158	165	20%	198	1860	600	\$ 3,834,617
14	SR 429 NB Ramp to Connector WB over SR 429 NB off Ramp	Steel Plate Girders	1917.5	227	9.08	Pile Bents	0.00	9.08	1	227	30.00	6810	135	20%	162	1800	600	\$ 1,143,220

Notes:

1. Bridge lengths and superstructure depths have been rounded up for estimation purposes and may not match the Plan Sheets and Typical Sections.
2. % Increase for Special Construction per SDG 9.2.3, add 20% for construction over traffic and 3% for structures over open water; Add 30% for High Level flyovers.

Total Estimated Bridge Cost = \$ 84,785,300
Total Bridge Area (SF) = 502,058
Average Cost/SF = \$ 169

LAKE/ORANGE PD&E STUDY - EMBANKMENT ESTIMATE

LAST UPDATED - APRIL 19, 2019

Alternative 3	Average Proposed Height	Average Existing Height	Difference (minus the 5 ft from template)	Area (sq. ft.) - xsection area
Mainline (Seg 1)	128.94	115.90	13.04	8.04
US 27	123.16	116.53	6.63	1.63
Mainline (Seg 2)	126.52	113.73	12.79	7.79
CR 455	124.27	114.66	9.61	4.61
Mainline (Segment :	134.45	104.48	29.97	24.97
Valencia Parkway	136.06	106.31	29.75	24.75
SR 429	158.87	141.84	17.03	12.03
US 27 (Seg 1)	128.94	115.90	13.04	8.04
1 Lane Ramps	124.27	114.66	9.61	4.61
CR 455	124.27	114.66	9.61	4.61
(Seg 2)	124.27	114.66	9.61	4.61
2 Lane Ramp	124.27	114.66	9.61	4.61
3 Lane Ramp	124.27	114.66	9.61	4.61
Valencia	136.06	106.31	29.75	24.75
(Segment 3)	136.06	106.31	29.75	24.75
2 Lane Ramp	136.06	106.31	29.75	24.75
3 Lane Ramp	136.06	106.31	29.75	24.75
SR 429 (Segment	158.87	141.84	17.03	12.03
3)				
1 Lane Ramps				

ALTERNATIVE 3

<u>Mainline Calculations</u>	
4116.16 ft	Seg 1
7723.97 ft	Seg 2
1528.75 ft	Seg 3
28888140.58 Volume C-FT	
1069931.132 C-Yd	

<u>ramps at US 27 Calculations</u>	
3.017 miles	
15929.76 ft	
6978229.69 Volume C-FT	
258452.9515 C-Yd	

<u>ramps at SR 429 Calculations</u>	
3.184 miles	
16811.52 ft	
11068445.39 Volume C-FT	
409942.4218 C-Yd	

<u>CR 455 Calculations</u>					
1.817 miles		0.484 miles		0.182 miles	
9593.76 ft		2555.52 ft		960.96 ft	
1 lane ramp	2401157.652 Volume C-FT	2 lane ramp	521762.514 Volume C-FT	3 lane ramp	497523.3 Volume C-FT
	88931.76489 C-Yd		19324.5376 C-Yd		18426.79 C-Yd
					126683.0922

<u>Valencia Parkway Calculations</u>					
0.638 miles		0.142 miles		0.064 miles	
3368.64 ft		749.76 ft		337.92 ft	
1 lane ramp	4626250.552 Volume C-FT	2 lane ramp	1660623.7 Volume C-FT	3 lane ramp	949185.3 Volume C-FT
	171342.613 C-Yd		61504.5816 C-Yd		35155.01 C-Yd
					268002.2054

Utility Impacts

	Transmission Pole Impacts	Cost of Electrical Transmission Pole Relocation Per Pole	Totals
Alternative 3	36	\$ 60,000.00	\$ 2,160,000.00

Appendix H: State Historic Preservation Office Concurrence Letter

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

June 4, 2019

Timothy A. Parsons, Ph.D.,
Director and State Historic Preservation Officer
Florida Division of Historical Resources
Florida Department of State
R.A. Gray Building
500 South Bronough Street
Tallahassee, Florida 32399-0250

Attn: Dr. Adrienne Daggett, Transportation Compliance Review Program

RE: Cultural Resource Assessment Survey
Feasibility/Project Development and Environment (PD&E) Study
Lake/Orange County Connector Roadway and Ponds
Lake and Orange Counties, Florida

2019 JUN 10 12:39
FLORIDA DEPARTMENT OF STATE
DIVISION OF HISTORIC PRESERVATION

Dear Dr. Parsons,

Enclosed please find one copy of the report titled *Cultural Resource Assessment Survey for the CFX Lake/Orange County Connector (US 27 to State Road 429) Feasibility/Project Development and Environment (PD&E) Study, Lake and Orange Counties, Florida*. The Central Florida Expressway Authority (CFX) is assessing the feasibility and viability of a new toll road, termed the Lake/Orange County Connector, between State Road (SR) 429 and US 27, a distance of approximately 4.4 miles (7.1 kilometers) in Lake and Orange Counties, Florida. This report presents the findings of a Phase I CRAS conducted in support of the proposed toll road and associated ponds.

The project Area of Potential Effects (APE) for the roadway was defined to include the existing and proposed rights-of-way of SR 429 and US 27. For the new roadway, the APE was extended 100 meters (330 feet) from the construction footprint. For the portions of the project located along existing roads, the APE was extended to the back or side property lines of parcels adjacent to proposed new right-of-way, or a distance of no more than 100 meters (330 feet) from the maximum right-of-way line. The APE defined for the ponds includes the proposed pond footprints with the addition of a 30.5-meter (100-foot) buffer. The archaeological survey was conducted within the existing and proposed rights-of-way, plus the pond footprints. The architectural history survey was conducted within the entire APE.

This CRAS was conducted in accordance with the requirements set forth in the National Historic Preservation Act of 1966, as amended, and Chapter 267, Florida Statutes (F.S.). The investigations were carried out in conformity with Part 2, Chapter 8 (Archaeological and Historical Resources) of FDOT's Project Development and Environment (PD&E) Manual, FDOT's Cultural Resources Manual, and the standards contained in the Florida Division of Historical Resources (FDHR) Cultural Resource Management Standards and Operations Manual (FDHR 2003). In addition, this survey meets the specifications set forth in Chapter 1A-46, Florida Administrative Code.

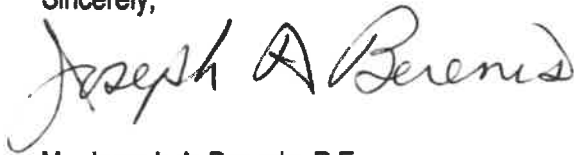
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Based on the results of this CRAS, it is the opinion of CFX that the proposed undertaking will have no effect on NRHP-listed or -eligible historic properties. No further work is recommended.

I respectfully request your concurrence with the findings of the enclosed report.

If you have any questions or need further assistance, please contact William Sloup, PE., Project Manager, by email: William.Sloup@metriceng.com or by phone: 407-644-1898.

Sincerely,



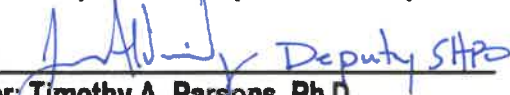
Mr. Joseph A. Berenis, P.E.
Chief of Infrastructure
Central Florida Expressway Authority

Enclosure

The Florida State Historic Preservation Officer:

finds the attached report complete and sufficient and concurs/ does not concur with the findings and recommendations contained in this cover letter and the enclosed report.

does not find the attached report complete and sufficient and requires additional information in order to provide an opinion on the potential effects of the proposed project on historic resources.

/s/  Deputy SHPO
For: Timothy A. Parsons, Ph.D.
Director, Division of Historical Resources
& State Historic Preservation Officer

7/11/2019
Date

2018-3297B
DHR No.

Please be sure to reference Chapter 872 of the Florida Statute, as it pertains to unexpected discoveries + procedures for handling human remains, in the CRAS report at all times.