

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
STRUCTURES PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO. SHEET DESCRIPTION

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1A	NOTES TO REVIEWER
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3-5	DRAINAGE MAPS
6-8	TYPICAL SECTIONS
9	TYPICAL SECTIONS DETAILS
10	SUMMARY OF DRAINAGE STRUCTURES
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GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2023-2024 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: IR ____-____-____

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

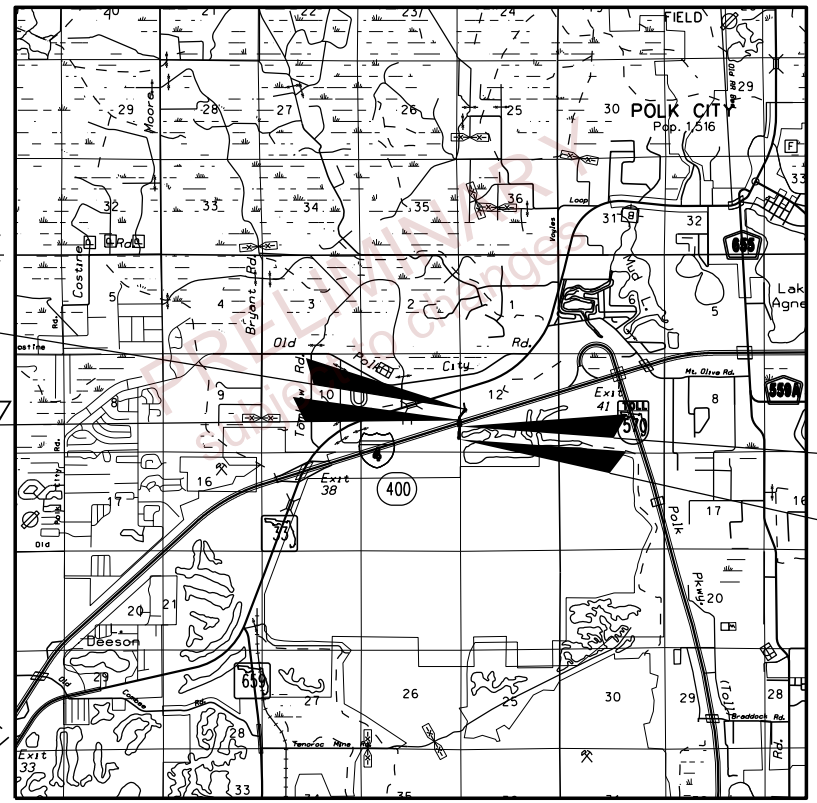
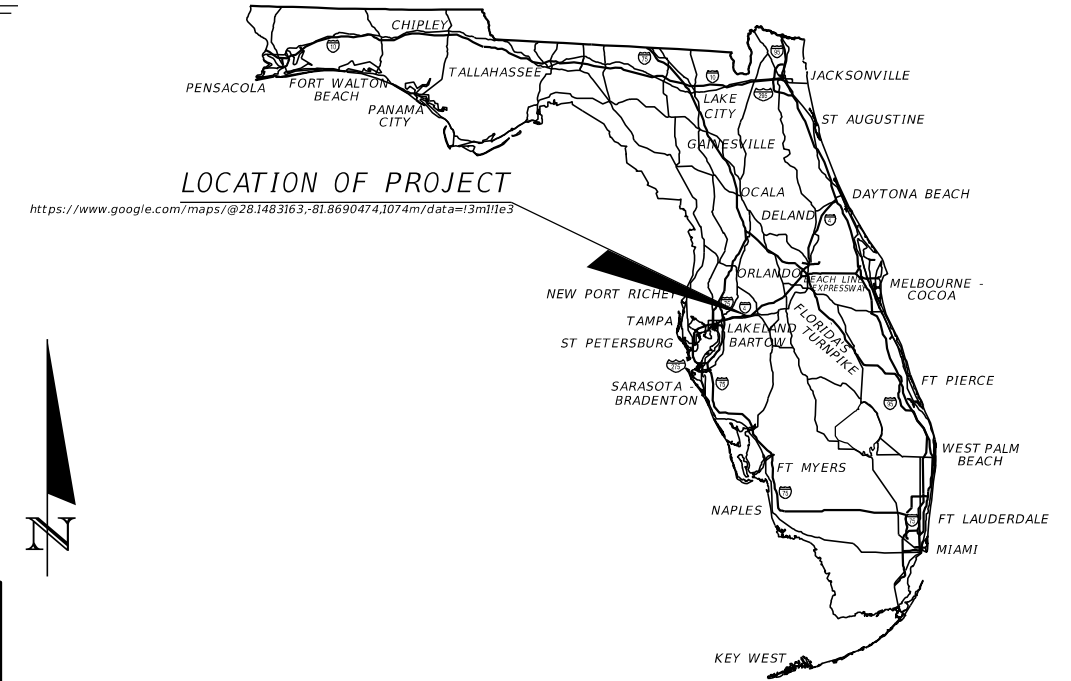
Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 201214-8-52-01
(FEDERAL FUNDS)

POLK COUNTY (16320)
STATE ROAD NO. 400 (1-4)
WILDLIFE OVERPASS



PHASE IIIR SUBMITTAL
JULY, 13 2023

ROADWAY PLANS
ENGINEER OF RECORD:

DAVE PANIGRAHI, P.E.
LICENSE NUMBER 68318
H.W. Lochner
4350 W. Cypress Street, SUITE 80
Tampa, Florida 33607
CONTRACT NO.: C9C38
VENDER NO.: VF362338811001

FDOT PROJECT MANAGER:

DOUG BURKHART, P.E.

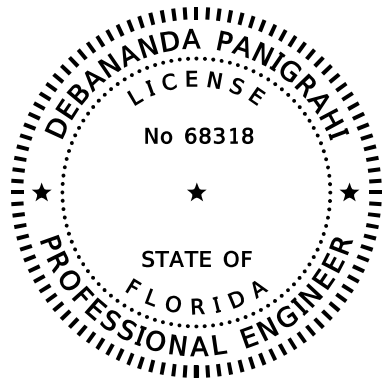
CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		1

NOTES TO REVIEWER:

1. BRIDGE TYPICAL INCLUDED FOR REFERENCE ONLY. IT WILL BE REMOVED FOR NEXT SUBMITTAL.
2. CABLE STAYED BARRIER HAS BEEN SHOWN IN THE MEDIAN OF I-4. CURRENTLY FDOT HAS DEVELOPMENTAL STANDARDS: ADDITIONAL DETAILS WILL BE PROVIDED ONCE ADDITIONAL CRITERIA HAVE BEEN DEVELOPED AND PROVIDED.
3. LANDSCAPING BY OTHERS, NOT IN SCOPE OF THIS PROJECT. FENCING LIMITS AND SOIL/FILL TYPE TO BE DETERMINED AFTER THIS SUBMITTAL AFTER COORDINATION WITH LANDSCAPER.
4. PLANS HAVE BEEN DEVELOPED UTILIZING FDM SERIES 300. SUPPLEMENT TO ORIGINAL SCOPE DOES NOT INCLUDE UPDATING TO LATEST FDM 900 SERIES.

PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>NOTES TO REVIEWER</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	1A		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			SR 400		POLK



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

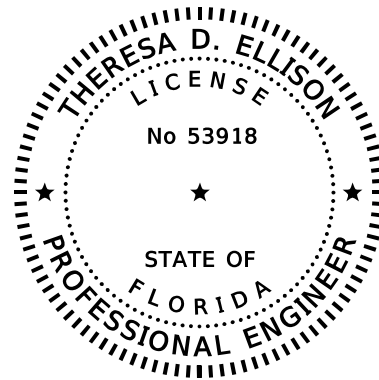
ON THE DATE ADJACENT TO THE SEAL

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

LOCHNER
4350 W. CYPRESS STREET, SUITE 800
TAMPA, FL 33607
DEBANANDA PANIGRAHI, P.E. NO. 68318

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

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
6-8	TYPICAL SECTIONS
9	TYPICAL SECTIONS DETAILS
12	PROJECT LAYOUT
13-14	PROJECT CONTROLS
15	GENERAL NOTES
16-19	ROADWAY PLANS
20-22	ROADWAY PROFILES
30	CROSS SECTION PATTERN LINES
32-67	CROSS SECTIONS
80-83	UTILITY ADJUSTMENTS



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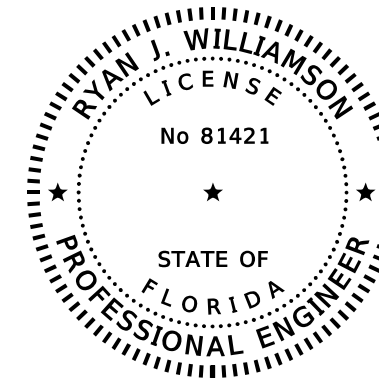
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LOCHNER
4350 W. CYPRESS STREET, SUITE 800
TAMPA, FL 33607
THERESA D. ELLISON, P.E. NO. 53918

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
3-5	DRAINAGE MAPS
10	SUMMARY OF DRAINAGE STRUCTURES
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68-70	STORMWATER POLLUTION PREVENTION PLANS
71-72	EROSION CONTROL PLANS

PRELIMINARY
subject to changes



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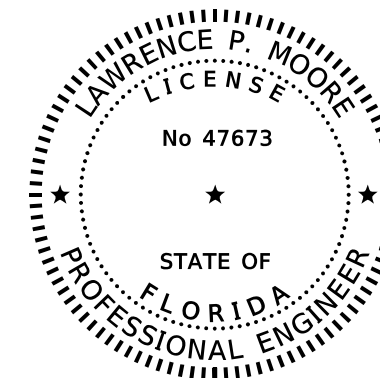
ON THE DATE ADJACENT TO THE SEAL

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BURGESS & NIPLE, INC.
1800 PEMBROOK DRIVE, SUITE 265
ORLANDO, FL 32810
CERTIFICATE OF AUTHORIZATION NO. 9853
RYAN J WILLIAMSON, P.E. NO. 81421

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
73-79	TEMPORARY TRAFFIC CONTROL PLANS



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ON THE DATE ADJACENT TO THE SEAL

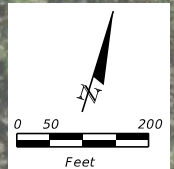
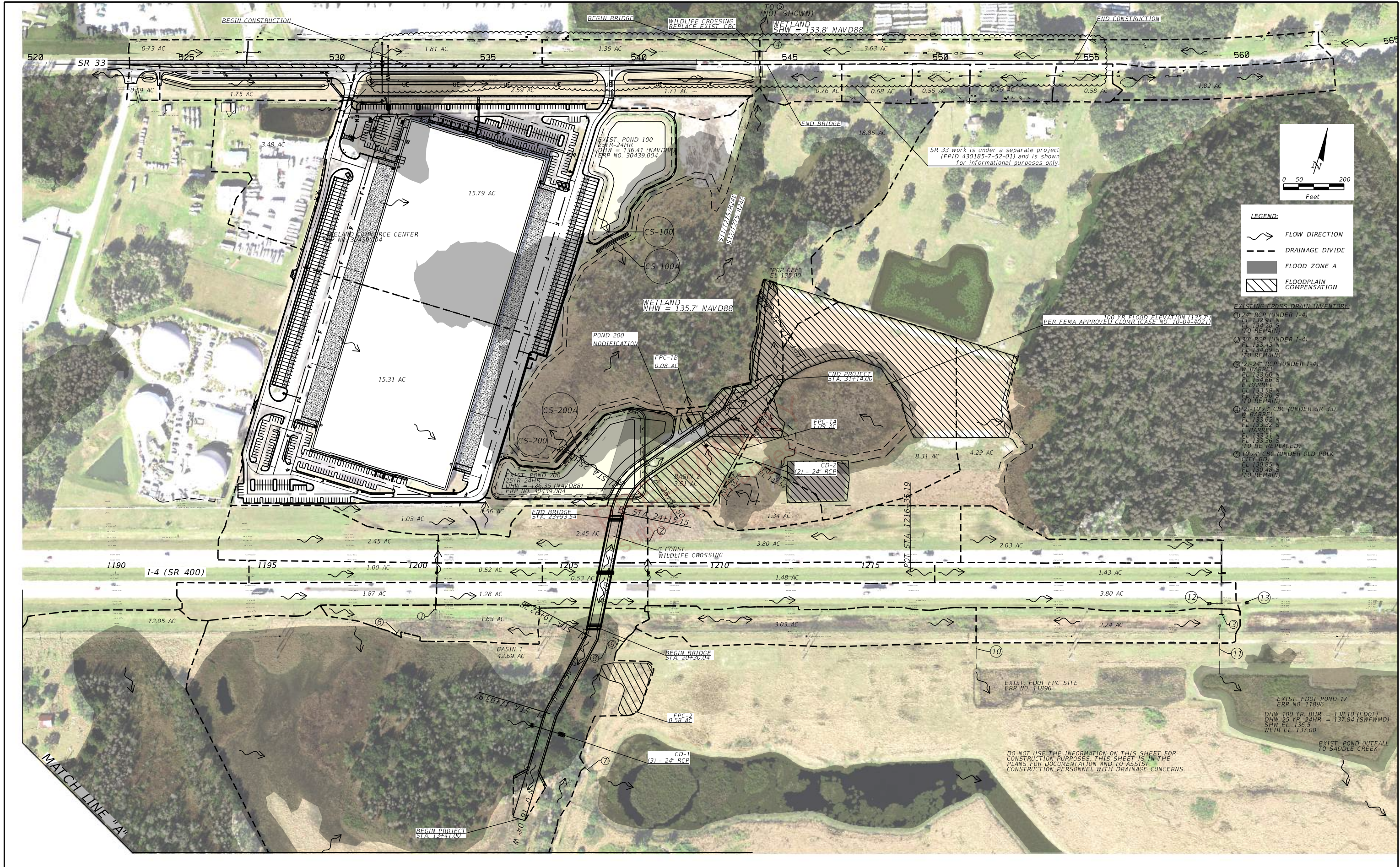
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
CERTIFICATE OF AUTHORIZATION; 6486
LAWRENCE P. MOORE, P.E. NO. 47673

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

ROADWAY PLANS SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
31	ROADWAY SOIL SURVEY
84-86	POND SOIL SURVEY

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	POLK	201214-8-52-01	
SIGNATURE SHEET							2	



LEGEND:

- FLOW DIRECTION
- DRAINAGE DIVIDE
- FLOOD ZONE A
- FLOODPLAIN COMPENSATION

EXISTING CROSS DRAIN INVENTORY:

- ① 24" RCP (UNDER I-4)
FL 132.95 S
FL 134.25 S
(TO REMAIN)
- ② 30" RCP (UNDER I-4)
FL 133.43 N
FL 134.05 S
(TO REMAIN)
- ③ (2) 24" RCP (UNDER I-4)
W. BARREL
FL 133.60 N
FL 134.65 S
E. BARREL
FL 133.59 N
FL 134.05 S
(TO REMAIN)
- ④ (2) 10"x3" CBC (UNDER SR 33)
W. BARREL
FL 133.05 N
FL 134.25 S
E. BARREL
FL 133.51 N
FL 133.95 S
(TO BE REPLACED)
- ⑤ 10"x4" CBC (UNDER OLD POLK CITY RD)
FL 130.85 N
FL 130.48 S
(TO REMAIN)

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 400	POLK	201214-8-52-01	3

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REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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						SR 400	POLK	201214-8-52-01	4

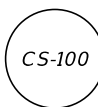
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

EXISTING CROSS DRAINS

- ① 24" RCP (UNDER I-4)
FL 132.91 N
FL 134.28 S
(TO REMAIN)
- ② 30" RCP (UNDER I-4)
FL 133.43 N
FL 134.69 S
(TO REMAIN)
- ③ (2) 24" RCP (UNDER I-4)
W BARREL
FL 133.60 N
FL 134.66 S
E BARREL
FL 133.59 N
FL 133.90 S
(TO REMAIN)
- ④ (2) 10'x3' CBC (UNDER SR 33)
W BARREL
FL 133.62 N
FL 133.32 S
E BARREL
FL 133.51 N
FL 133.36 S
(TO BE REPLACED)
- ⑤ 10'x4' CBC (UNDER OLD POLK CITY RD)
FL 130.85 N
FL 130.48 S
(TO REMAIN, NOT SHOWN)

EXISTING DRAINAGE STRUCTURES

- ⑥ 15" DIP
FL 134.43 N
FL 134.37 S
(TO REMAIN)
- ⑦ 18" PVC
FL 133.13 E
FL 132.99 W
(TO REMAIN)
- ⑧ 24" RCP
FL 134.19 N
FL 134.03 S
(TO REMAIN)
- ⑨ 18" DIP
FL 135.52 E
FL 136.31 W
(TO REMAIN)
- ⑩ 24" RCP (SUBMERGED)
FL 133.18 N
FL 133.33 S
(TO REMAIN)
- ⑪ 26"x14" RCP (SUBMERGED)
FL 134.73 N
FL 134.38 S
(TO REMAIN)
- ⑫ GRATE INLET
GRATE EL 136.88
30" RCP FL 129.90 E
- ⑬ GRATE INLET
GRATE EL 137.44
30" RCP FL 131.94 W



CS-100 POND CONTROL STRUCTURE
MODIFIED TYPE D INLET
GRATE EL 136.67
WEIR EL 136.53
CONTROL EL 135.75
(ERP NO. 30439)



CS-100A POND CONTROL STRUCTURE
MODIFIED TYPE D INLET
GRATE EL 136.67
WEIR EL 136.53
CONTROL EL 135.75
(ERP NO. 30439)



CS-200 POND CONTROL STRUCTURE
MODIFIED TYPE D INLET
GRATE EL 136.63
WEIR EL 136.36
CONTROL EL 135.53
(ERP NO. 30439)



CS-200A POND CONTROL STRUCTURE
MODIFIED TYPE D INLET
GRATE EL 136.63
WEIR EL 136.36
CONTROL EL 135.53
(ERP NO. 30439)

SUMMARY OF FLOOD DATA
FINANCIAL PROJECT ID 201214-8-52-01

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		2% PROB	50 YR FREQ	1% PROB	100 YR FREQ	DISCHARGE	STAGE	PROB %	FREQ YR	DISCHARGE	STAGE	PROB %	FREQ YR
		DISCHARGE	STAGE	DISCHARGE	STAGE								
CD-1	16+50.00	49.71	135.51	53.35	135.59	N/A	N/A	N/A	N/A	57.50	135.65	N/A	N/A
CD-2	28+00.00	26.01	135.19	28.17	135.31	N/A	N/A	N/A	N/A	32.00	135.54	N/A	N/A

NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND (CFS) AND STAGES ARE IN FEET, NAVD 88.

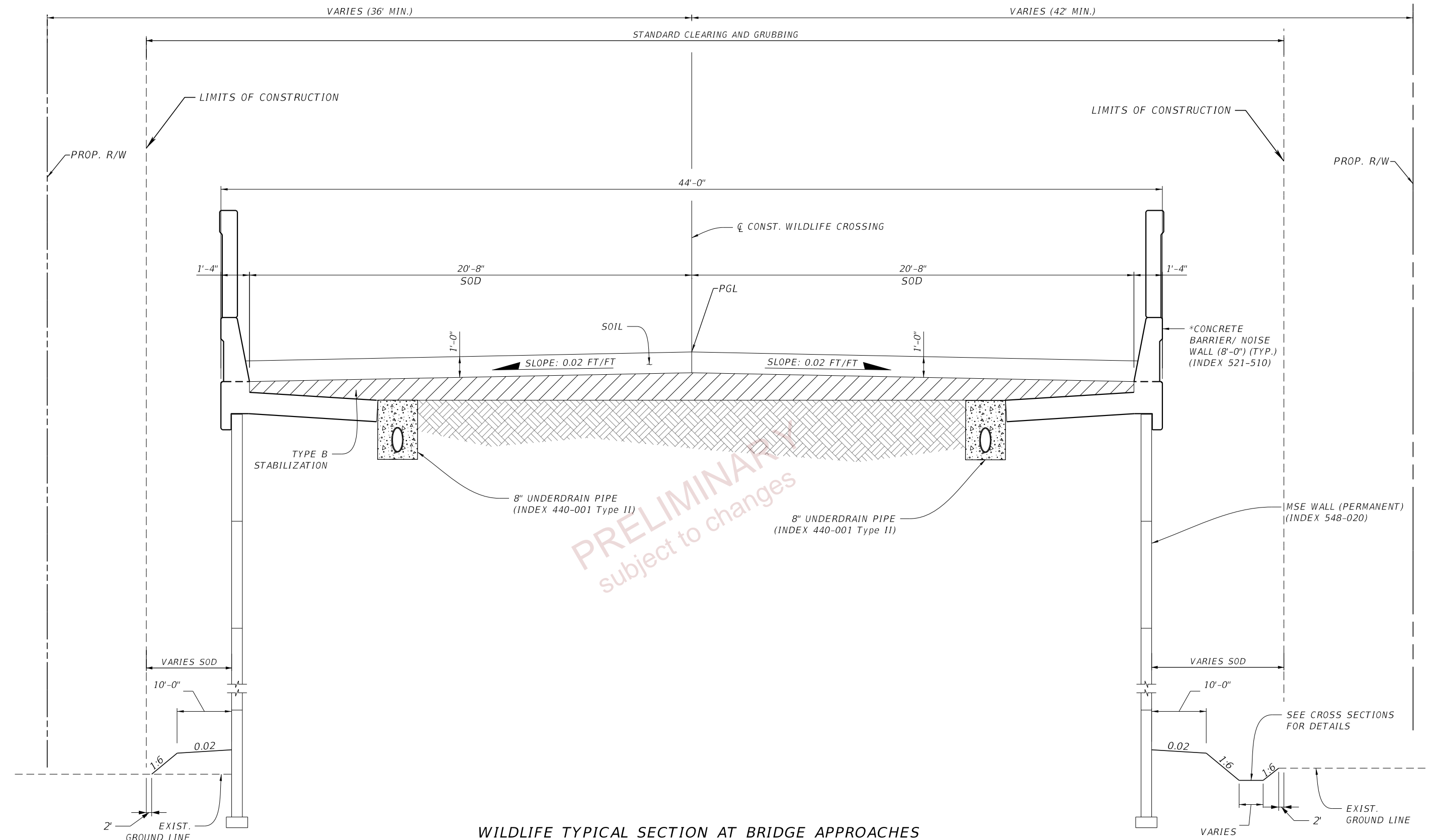
DEFINITIONS:

- DESIGN FLOOD: UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.
- BASE FLOOD: HAS A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR (100 YR. FREQUENCY).
- OVERTOPPING FLOOD: CAUSES FLOW OVER THE HIGHWAY, OVER A WATERSHED DIVIDE OR THRU EMERGENCY RELIEF STRUCTURES.
- GREATEST FLOOD: THE MOST SEVERE THAT CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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				SR 400	POLK	201214-8-52-01			

DRAINAGE MAPS (03)

5



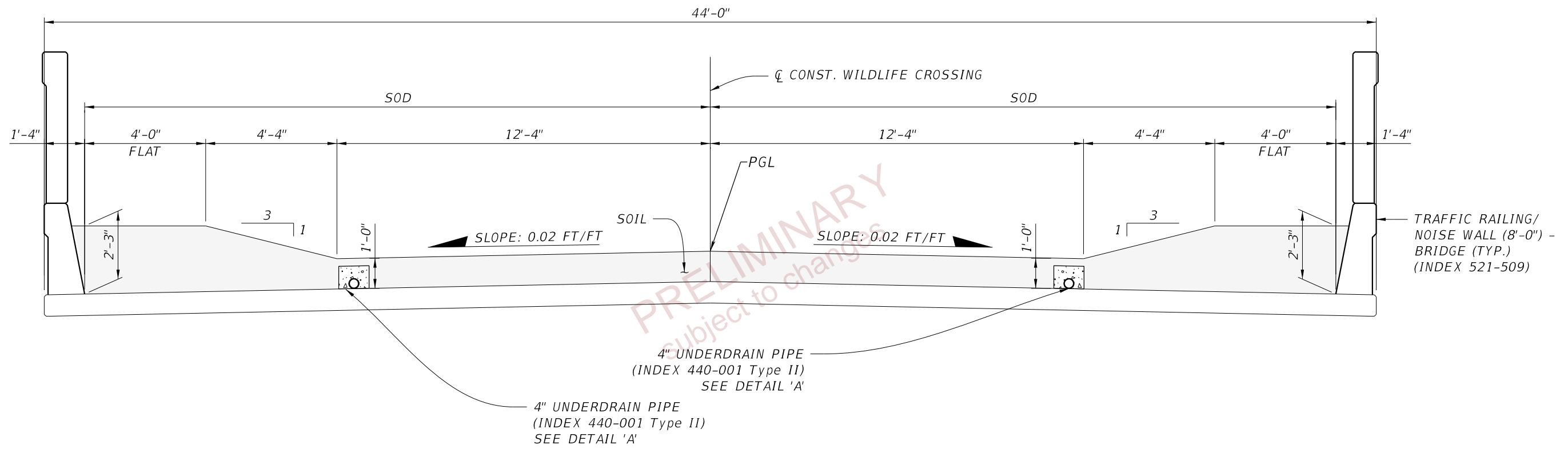
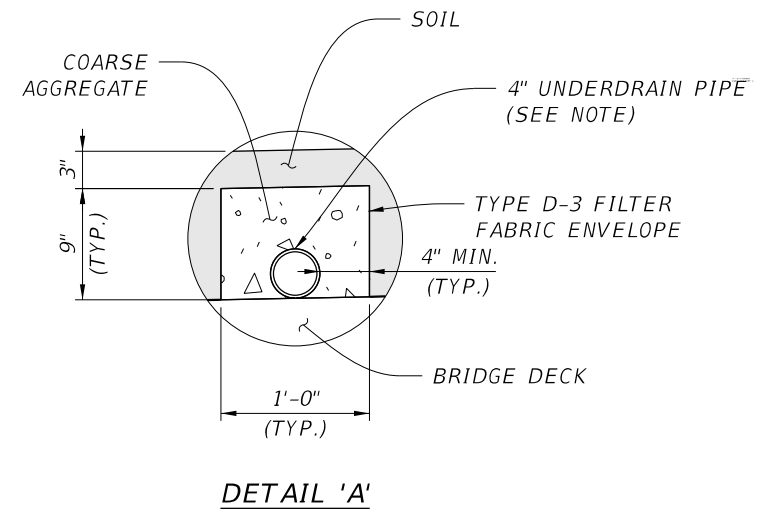
TRAFFIC DATA
N/A - WILDLIFE CROSSING

WILDLIFE TYPICAL SECTION AT BRIDGE APPROACHES
 STA 13+41.00 TO STA 20+30.04 CL CONST. WILDLIFE CROSSING
 STA 23+93.54 TO STA 31+14.00 CL CONST. WILDLIFE CROSSING
 *NOISE WALL LIMITS STA 18+30.00 TO STA 20+30.04
 STA 23+93.54 TO STA 26+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	

TYPICAL SECTIONS (1)

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



TYPICAL SECTION (WILDLIFE CROSSING BRIDGE OVER I-4)
 STA 20+30.04 TO STA 23+93.54 \bar{C} CONST. WILDLIFE CROSSING

NOTE:
 FOR UNDERDRAIN PIPE LIMITS,
 SEE ROADWAY PLAN SHEETS

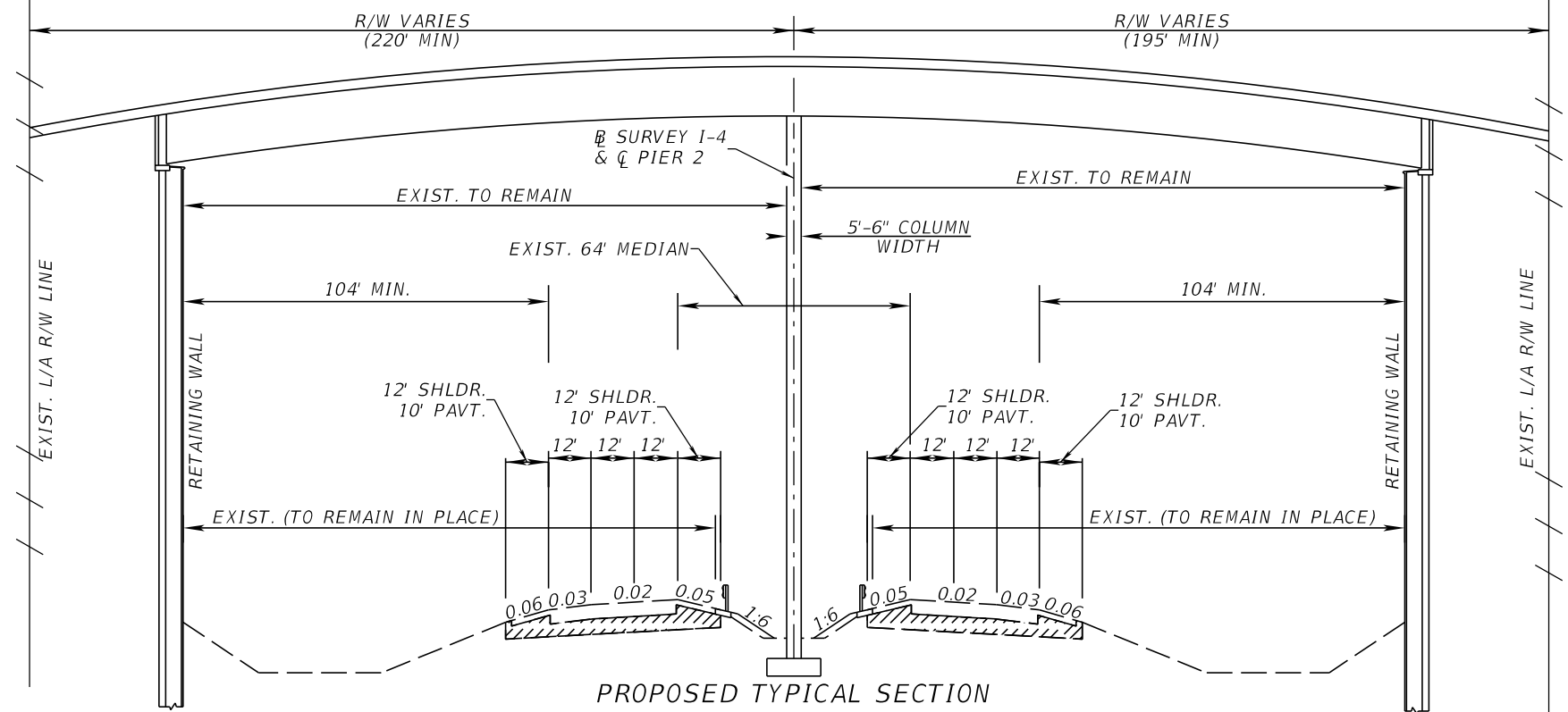
TRAFFIC DATA

N/A - WILDLIFE CROSSING

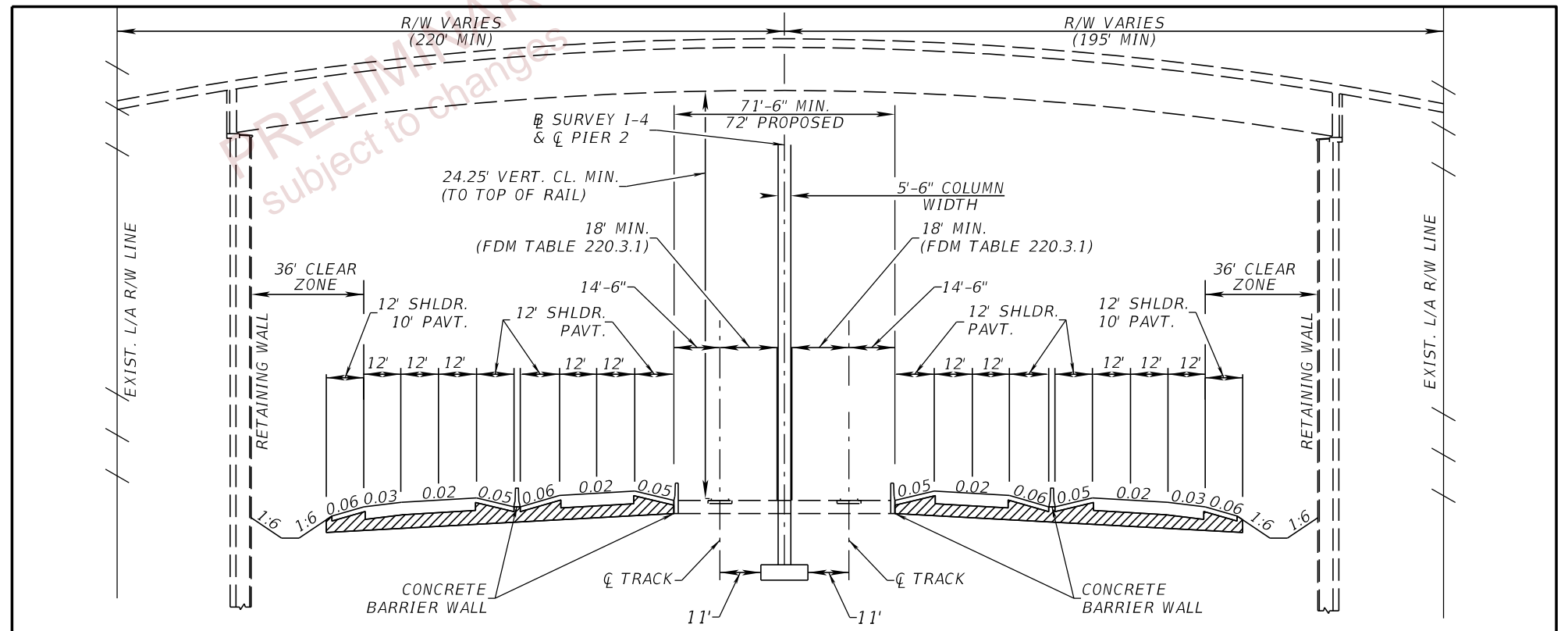
FOR INFORMATION ONLY

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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						SR 400	POLK	201214-8-52-01	7
TYPICAL SECTIONS (2)									

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PROPOSED TYPICAL SECTION
I-4 (SR 400)
STA. 1203+00.00 TO STA. 1209+50.00
MAINLINE AT WILDLIFE CROSSING
DESIGN SPEED: 70 MPH



FUTURE TYPICAL SECTION
I-4 (SR 400)
(BY OTHERS)
DESIGN SPEED: 70 MPH

SHOWN FOR INFO. ONLY

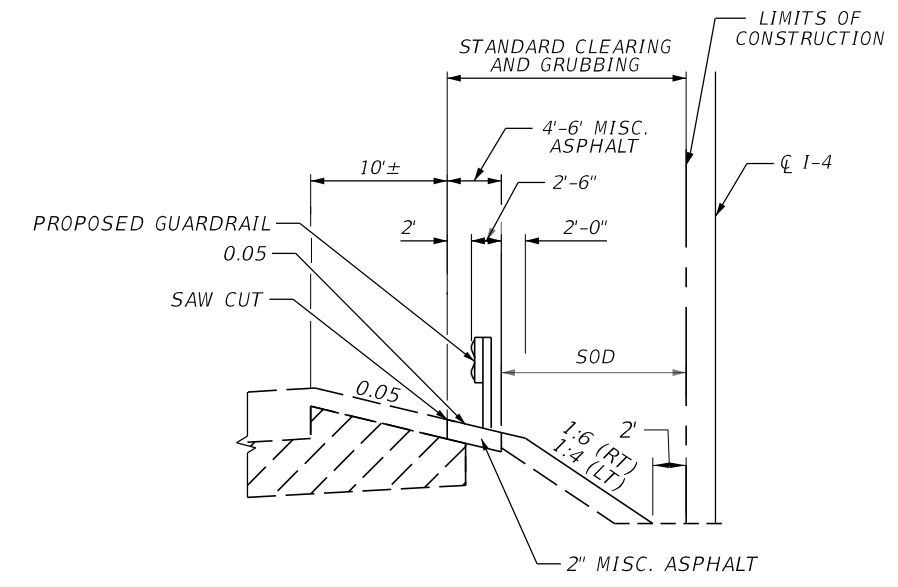
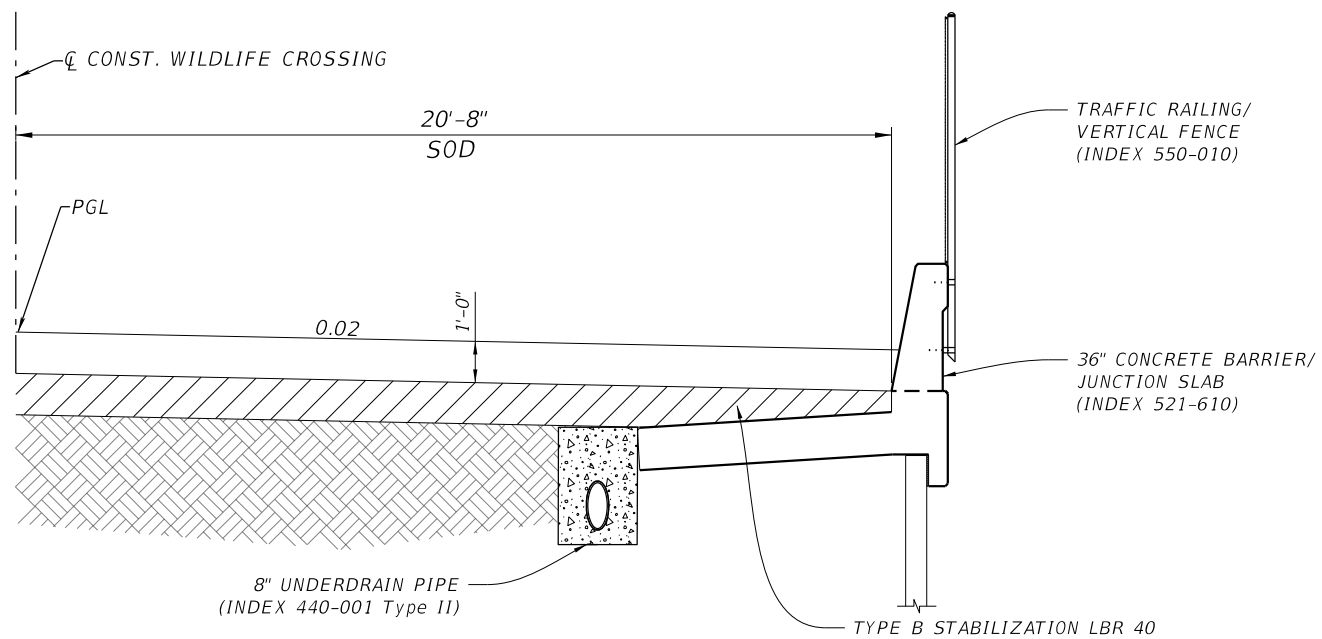
TRAFFIC DATA

CURRENT YEAR = 2020 AADT = 79,600
 ESTIMATED OPENING YEAR = 2024 AADT = 85,400
 ESTIMATED DESIGN YEAR = 2042 AADT = 114,500
 K = 9.0% D = 51.90% T = 19.60% (24 HOUR)
 DESIGN HOUR T = 9.8%
 DESIGN SPEED = 70 MPH

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	POLK	201214-8-52-01	

TYPICAL SECTIONS (3)

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



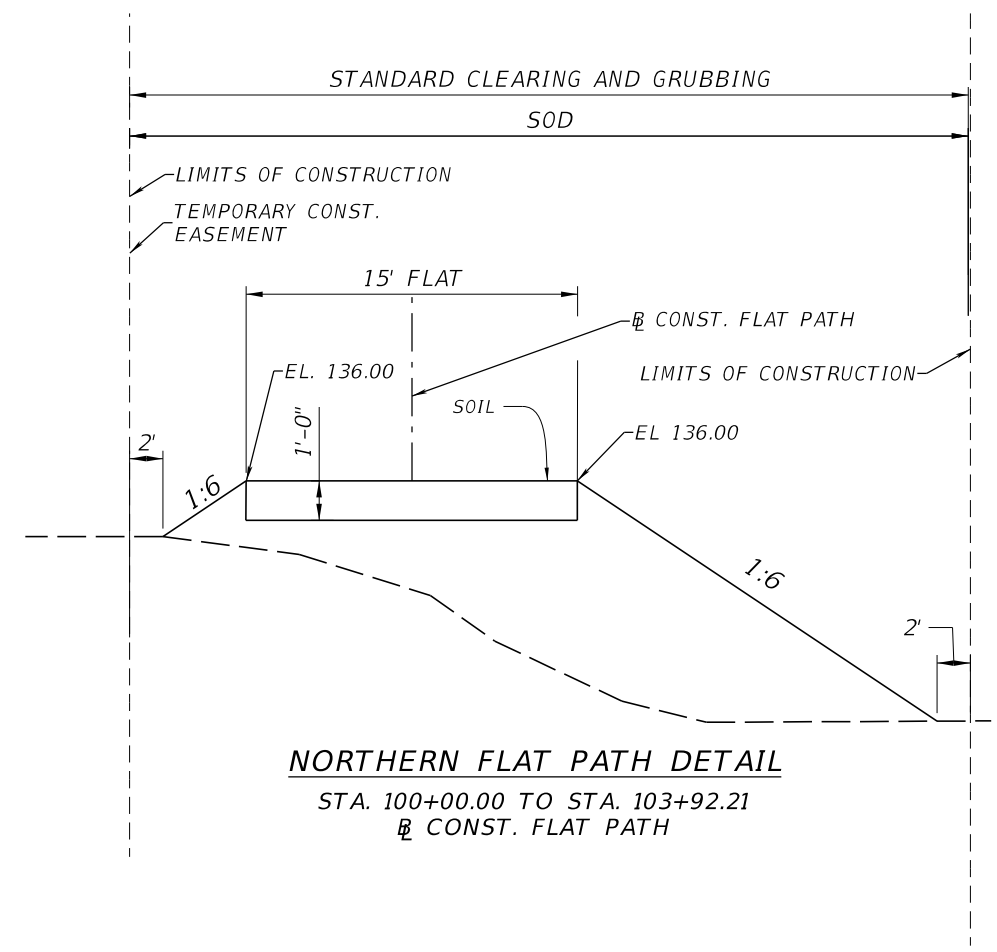
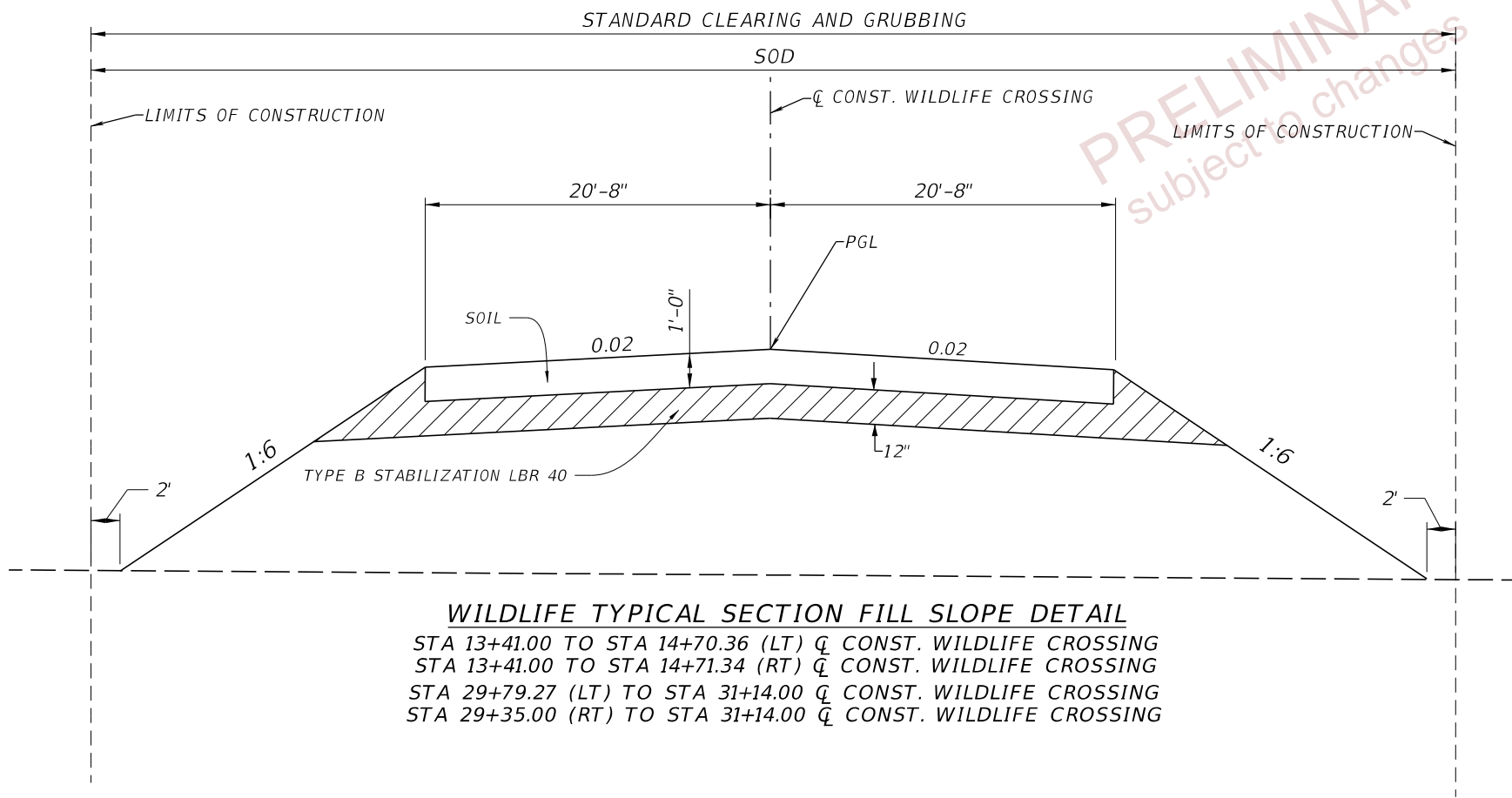
WILDLIFE TYPICAL SECTION BARRIER WALL FENCE DETAIL

SR 400 (I-4) GUARDRAIL TYPICAL SECTION DETAILS

STA 14+70.36 (LT) TO STA 18+30.00 \bar{C} CONST. WILDLIFE CROSSING
 STA 14+70.34 (RT) TO STA 18+30.00 \bar{C} CONST. WILDLIFE CROSSING

STA 1203+00.00 TO STA 1206+61.28 \bar{B} SURVEY SR 400 (I-4) RT
 STA 1205+75.85 TO STA 1209+50.00 \bar{B} SURVEY SR 400 (I-4) LT

STA 26+00.00 TO STA 29+79.27 (LT) \bar{C} CONST. WILDLIFE CROSSING
 STA 26+00.00 TO STA 29+35.00 (RT) \bar{C} CONST. WILDLIFE CROSSING



WILDLIFE TYPICAL SECTION FILL SLOPE DETAIL
 STA 13+41.00 TO STA 14+70.36 (LT) \bar{C} CONST. WILDLIFE CROSSING
 STA 13+41.00 TO STA 14+71.34 (RT) \bar{C} CONST. WILDLIFE CROSSING
 STA 29+79.27 (LT) TO STA 31+14.00 \bar{C} CONST. WILDLIFE CROSSING
 STA 29+35.00 (RT) TO STA 31+14.00 \bar{C} CONST. WILDLIFE CROSSING

NORTHERN FLAT PATH DETAIL
 STA. 100+00.00 TO STA. 103+92.21
 \bar{B} CONST. FLAT PATH

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 9
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	

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PIPE DATA								
Label	Number of Barrels	Length (ft)	Size (in)	Start Node (Upper)	Start Invert (ft)	Stop Node (Lower)	Stop Invert (ft)	Optional Pipe
CD-1	3	249.0	24"	CD-1A	132.75	CD-1B	132.25	Group 1
CD-2	2	168.0	24"	CD-2A	132.00	CD-2B	131.50	Group 1

PRELIMINARY
subject to changes

ENDWALL & MES DATA							
Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Elevation (Invert) (ft)	FDOT Standard Plans (400 Index Series) Notes	Remarks
CD-1A	WILDLIFE CROSSING_CL CONST	16+50.00	-45.50	CD MES, 1:4	132.75	430-021	
CD-1B	WILDLIFE CROSSING_CL CONST	16+50.00	45.42	CD MES, 1:4	132.25	430-021	
CD-2A	WILDLIFE CROSSING_CL CONST	28+00.00	45.80	CD MES, 1:4	132.00	430-021	
CD-2B	WILDLIFE CROSSING_CL CONST	28+00.00	-45.91	CD MES, 1:4	131.50	430-021	

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LÖCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		10
						SR 400	POLK	201214-8-52-01		

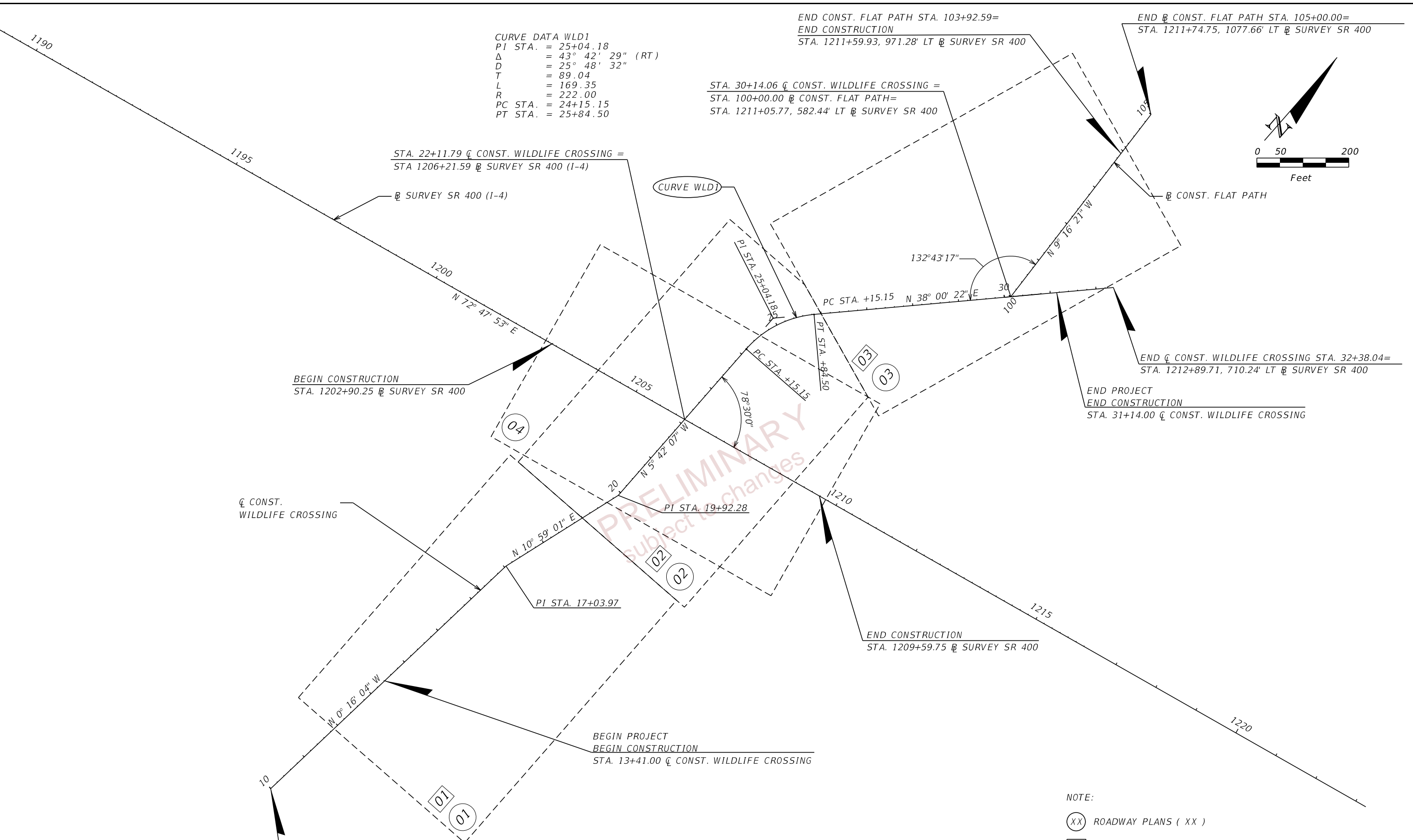
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Optional Materials Tabulation

<i>Group Number</i>	<i>Size(s)</i>	<i>Material</i>	<i>PLOTTED</i>	<i>As Built</i>	<i>Remarks</i>
<i>Group 1</i>	<i>24</i>	<i>PP- CLASS II</i>	<i>X</i>		<i>Wall Zone B</i>
		<i>PVC, ASTM F-949</i>			

PRELIMINARY
subject to changes

<i>REVISIONS</i>				<i>ENGINEER OF RECORD</i>		<i>STATE OF FLORIDA</i>			<i>OPTIONAL MATERIALS TABULATION</i>	SHEET NO. 11
<i>DATE</i>	<i>DESCRIPTION</i>	<i>DATE</i>	<i>DESCRIPTION</i>	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		<i>DEPARTMENT OF TRANSPORTATION</i>				
				<i>ROAD NO.</i>	<i>COUNTY</i>	<i>FINANCIAL PROJECT ID</i>				
				SR 400	POLK	201214-8-52-01				



CURVE DATA WLD1
 PI STA. = 25+04.18
 Δ = 43° 42' 29" (RT)
 D = 25° 48' 32"
 T = 89.04
 L = 169.35
 R = 222.00
 PC STA. = 24+15.15
 PT STA. = 25+84.50

END CONST. FLAT PATH STA. 103+92.59=
 END CONSTRUCTION
 STA. 1211+59.93, 971.28' LT @ SURVEY SR 400

END @ CONST. FLAT PATH STA. 105+00.00=
 STA. 1211+74.75, 1077.66' LT @ SURVEY SR 400

STA. 30+14.06 @ CONST. WILDLIFE CROSSING =
 STA. 100+00.00 @ CONST. FLAT PATH=
 STA. 1211+05.77, 582.44' LT @ SURVEY SR 400

STA. 22+11.79 @ CONST. WILDLIFE CROSSING =
 STA. 1206+21.59 @ SURVEY SR 400 (I-4)

BEGIN CONSTRUCTION
 STA. 1202+90.25 @ SURVEY SR 400

END @ CONST. WILDLIFE CROSSING STA. 32+38.04=
 STA. 1212+89.71, 710.24' LT @ SURVEY SR 400

END PROJECT
 END CONSTRUCTION
 STA. 31+14.00 @ CONST. WILDLIFE CROSSING

@ CONST.
 WILDLIFE CROSSING

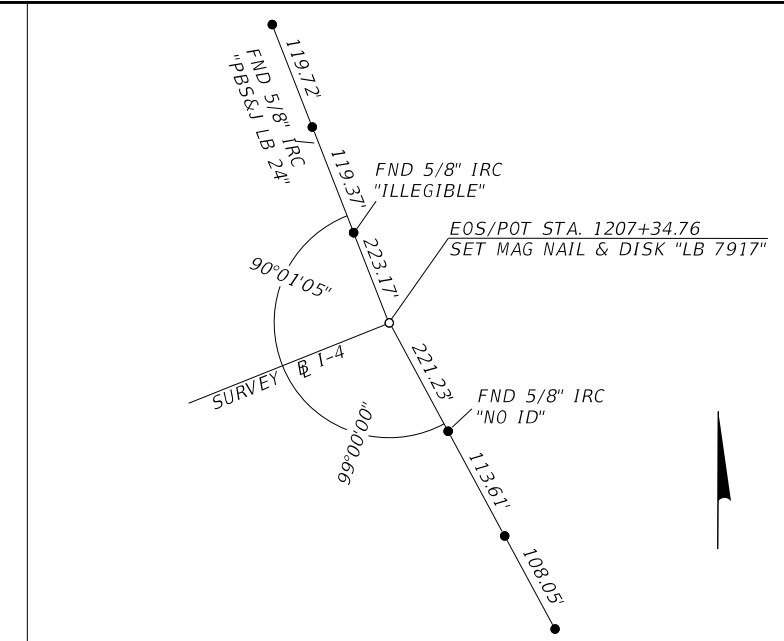
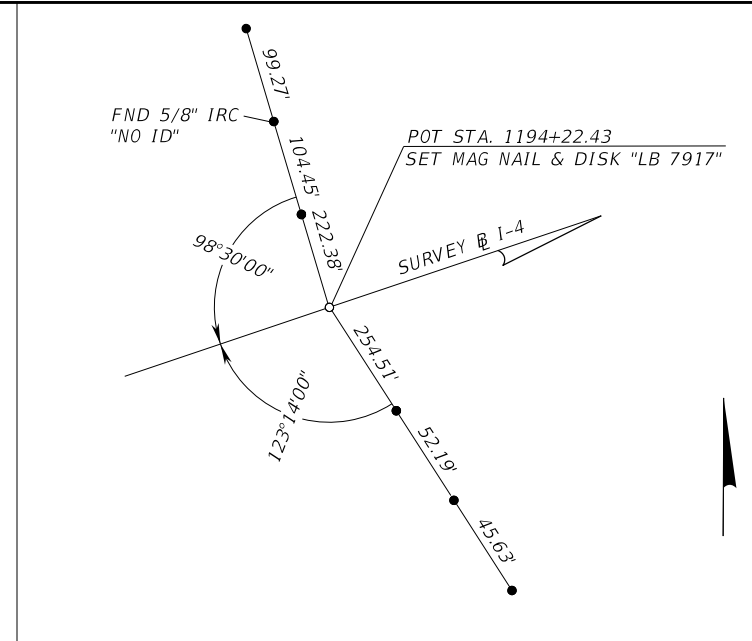
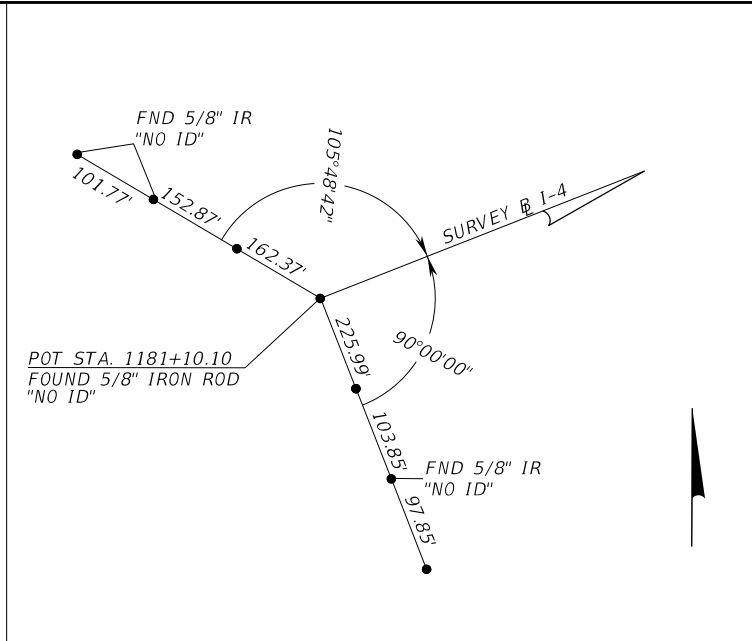
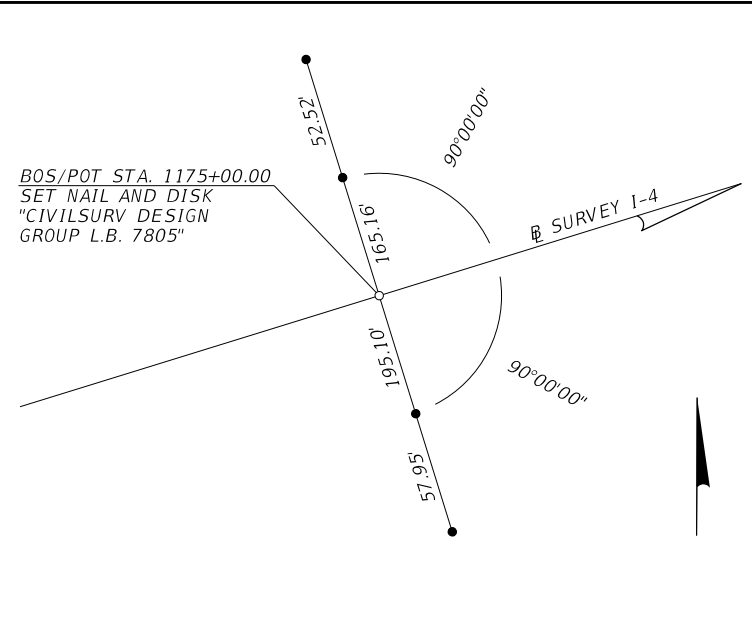
BEGIN PROJECT
 BEGIN CONSTRUCTION
 STA. 13+41.00 @ CONST. WILDLIFE CROSSING

BEGIN @ CONST. WILDLIFE CROSSING STA. 10+00.00=
 STA. 1202+36.60, 1142.67' RT @ SURVEY SR 400

NOTE:

- (XX) ROADWAY PLANS (XX)
- (XX) ROADWAY PROFILES (XX)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT	SHEET NO. 12
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		



PRELIMINARY
 subject to changes

PROJECT CONTROL NOTES:

1. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT.
 THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:
 CHRISTOPHER J. BOSSHART, P.S.M.
 P.S.M. NO.: 7150
 MCKIM & CREED, INC.
 3903 NORTHDALÉ BOULEVARD, SUITE 115E
 TAMPA, FLORIDA 33624
 CERTIFICATE OF AUTHORIZATION: 7917
2. THE BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM (NAD) OF 1983 (ADJUSTMENT OF 2011)
3. VERTICAL DAUM: NORTH AMERICAN VERTICAL MDTAM 1988 (NAVD88)

- LEGEND**
- = SET MAG NAIL AND DISK L.B. 7917 (UNLESS OTHERWISE NOTED)
 - = SET 5/8" IRON ROD AND CAP L.B. 7917 (UNLESS OTHERWISE NOTED)
 - L.B. = LICENSED BUSINESS
 - FND = FOUND
 - P.C. = POINT OF CURVE
 - P.I. = POINT OF INTERSECTION
 - P.T. = POINT OF TANGENT
 - P.O.T. = POINT ON TANGENT
 - P.O.C. = POINT ON CURVE
 - STA. = STATION
 - T.C. = TANGENT CURVE

**REFERENCE POINTS
I-4 (SR 400)**

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT CONTROLS (1)	SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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

PROJECT VERTICAL CONTROL							
NAME	(NAD 83 / 2011)		(NAVD88)	SURVEY \mathcal{B}	STATION	OFFSET	DESCRIPTION
	NORTHING (Y)	EASTING (X)	ELEVATION				
BM 4008	1385900	696792	136.263	SR 400 (I-4)	1202+32	235.1 RT.	SET 4"X4" CONC. MON. WITH STANDARD FDOT BRASS DISK STAMPED "BM 4008"
BM 4009	1386219	697751	138.834	SR 400 (I-4)	1212+42	213.7 RT.	SET 4"X4" CONC. MON. WITH STANDARD FDOT BRASS DISK STAMPED "BM 4009"
BM 4010	1386501	698764	138.459	SR 400 (I-4)	1222+94	243.7 RT.	SET 4"X4" CONC. MON. WITH STANDARD FDOT BRASS DISK STAMPED "BM 4010"
BM 4011	1386812	699766	138.447	SR 400 (I-4)	1233+43	243.6 RT.	SET 4"X4" CONC. MON. WITH STANDARD FDOT BRASS DISK STAMPED "BM 4011"

PRELIMINARY

subject to changes

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>PROJECT CONTROLS (2)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		14
					SR 400	POLK	201214-8-52-01		

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

GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND NORTH AMERICAN DATUM OF 1983 (ADJ. OF 2011, NAD 1983).
2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF THE DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

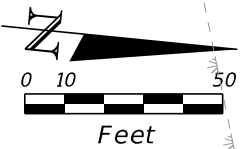
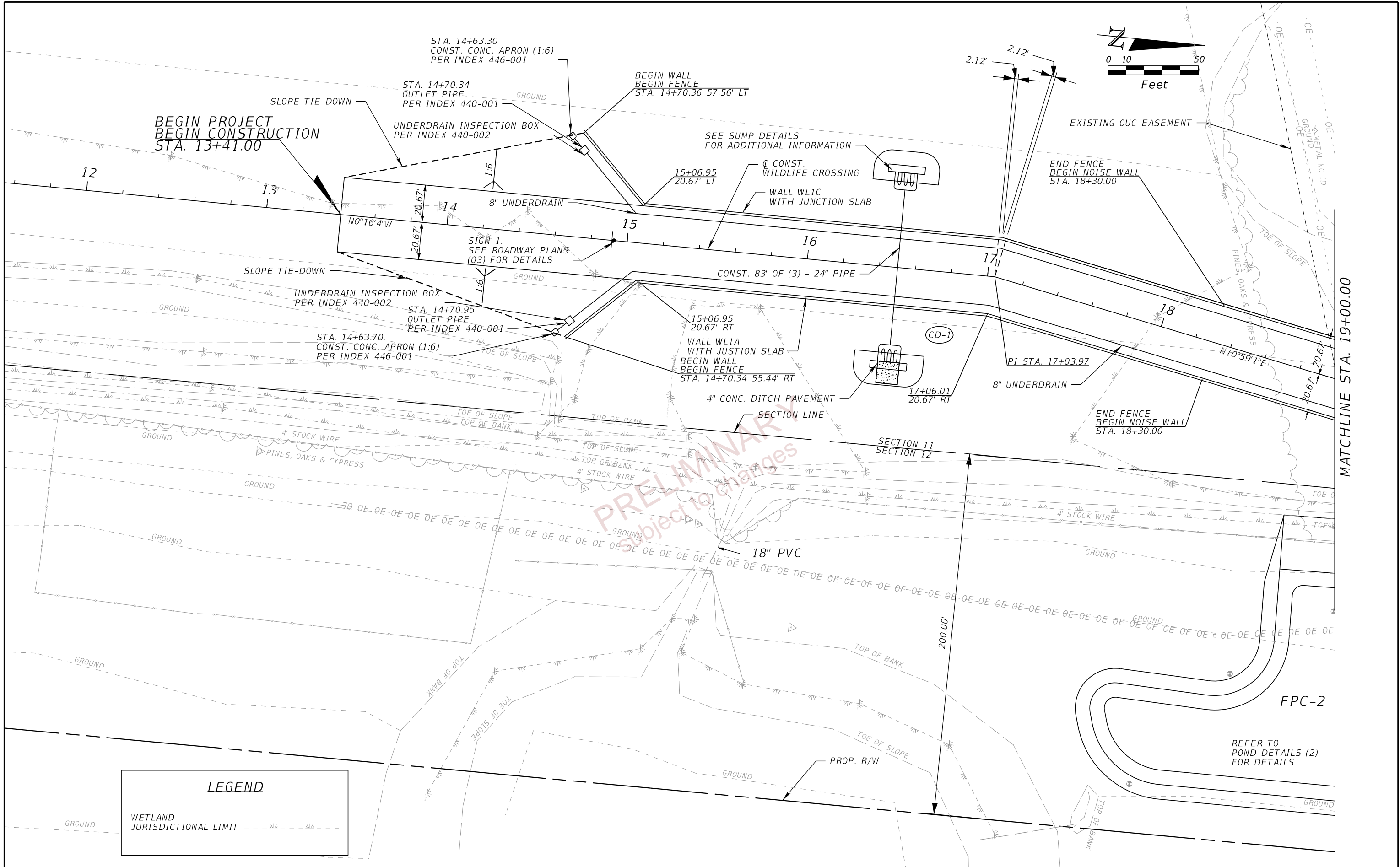
CHRISTOPHER J. BOSSHART, P.S.M.
P.S.M. NO.: 7150
MCKIM & CREED, INC.
3903 NORTHDALD BLVD., SUITE 115E
TAMPA, FL 33624
CERTIFICATE OF AUTHORIZATION: 7917

3. ALL EXISTING DRAINAGE STRUCTURES SHALL REMAIN IN PLACE, UNLESS NOTED OTHERWISE IN THE PLANS.
4. ALL EXISTING FENCING SHALL REMAIN IN PLACE, UNLESS NOTED OTHERWISE IN THE PLANS.
5. ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER WILL NOTIFY THE DISTRICT LOCATION SURVEYOR, DISTRICT 1 SURVEY DEPARTMENT.
6. SEE STRUCTURE PLANS FOR INFORMATION ON SOILS AND SOIL BORINGS.

PAY ITEM NOTES

120-6 INCLUDES 2926.51 CY OF TOPSOIL
440 1 2 INCLUDES 4" UNDERDRAIN AND 8" UNDERDRAIN

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		15
					SR 400	POLK	201214-8-52-01		



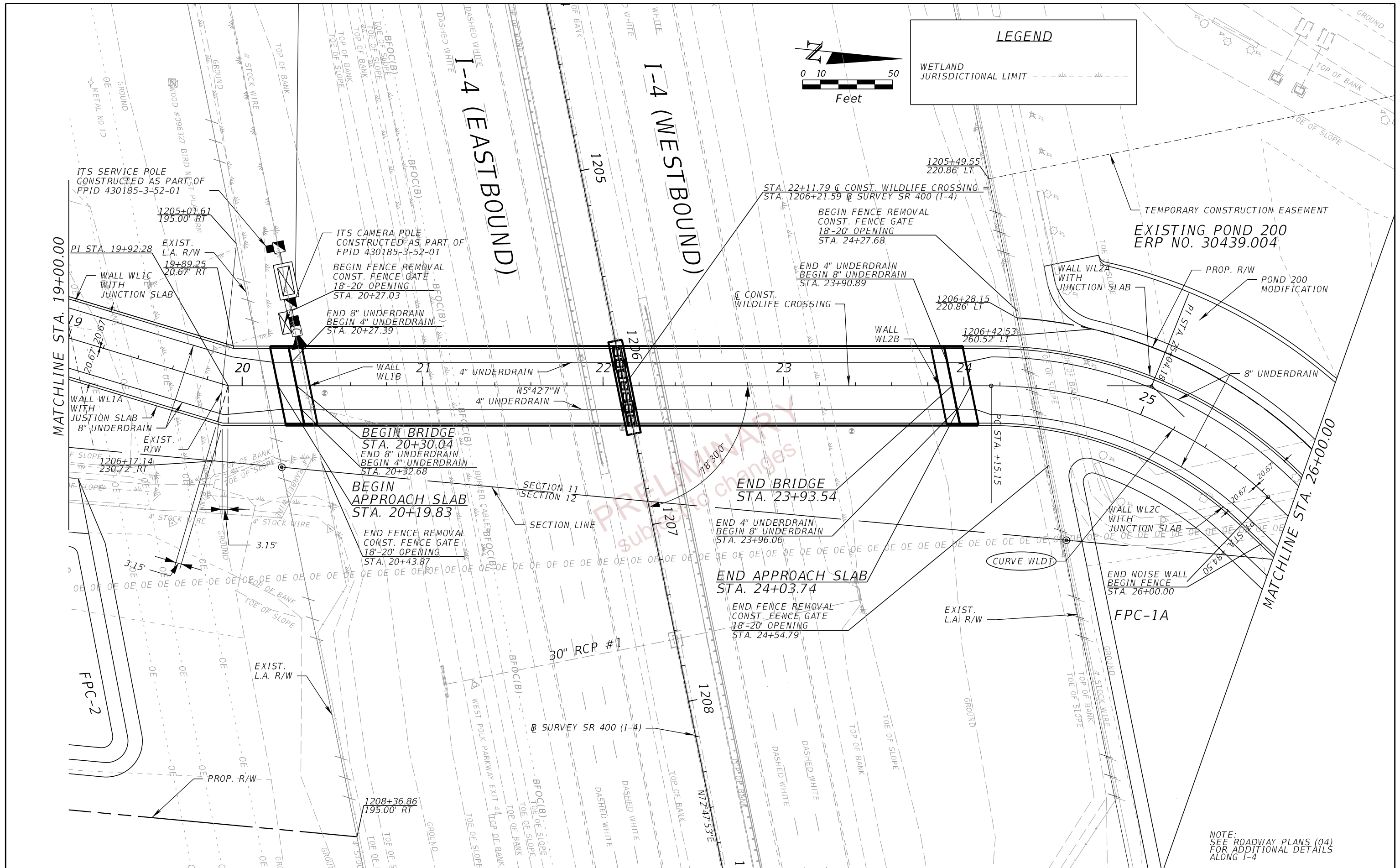
LEGEND

WETLAND JURISDICTIONAL LIMIT

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 16
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	

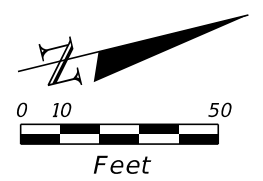
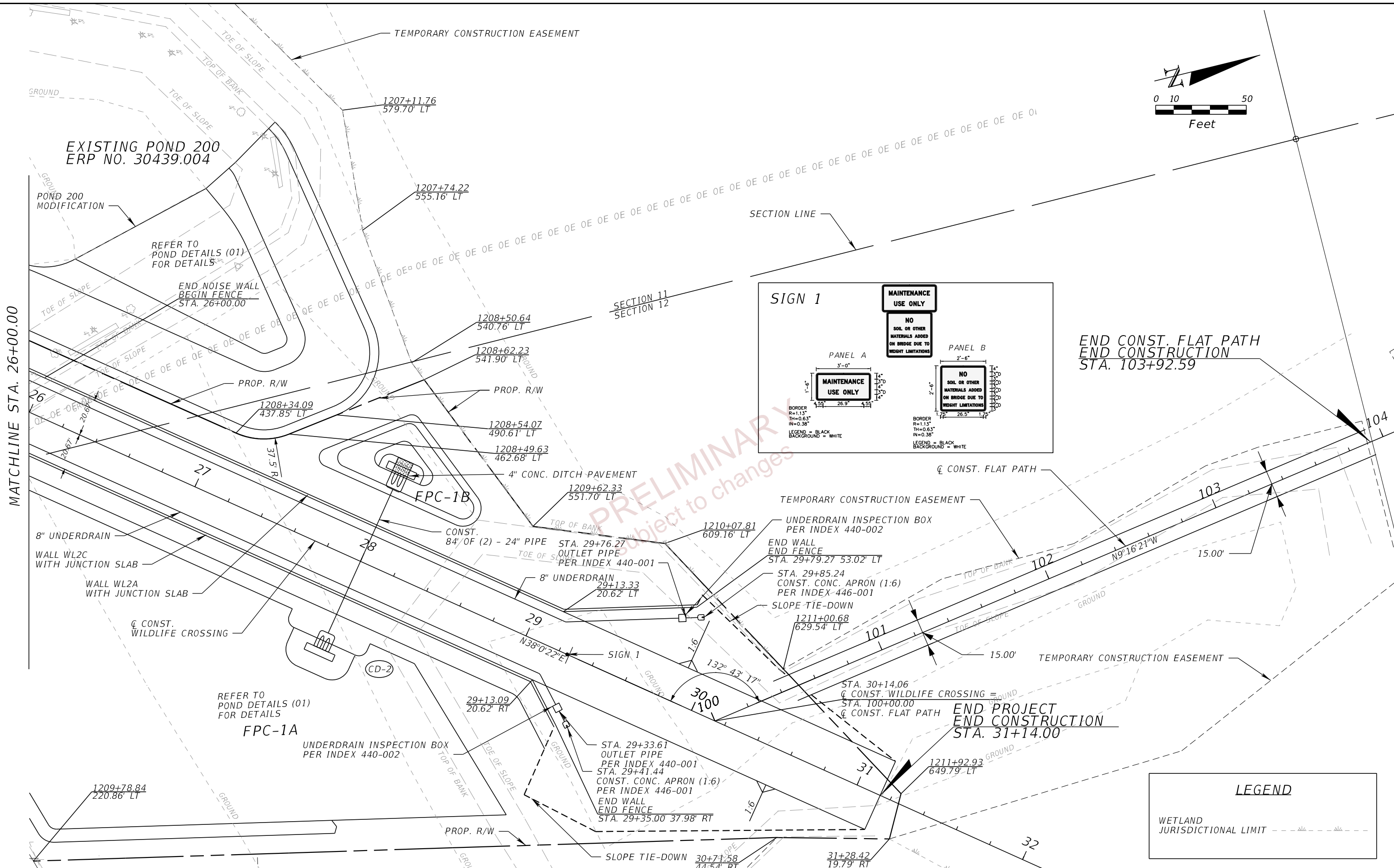
ROADWAY PLANS (01)

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	ROADWAY PLANS (02) 17
					SR 400	POLK	201214-8-52-01	

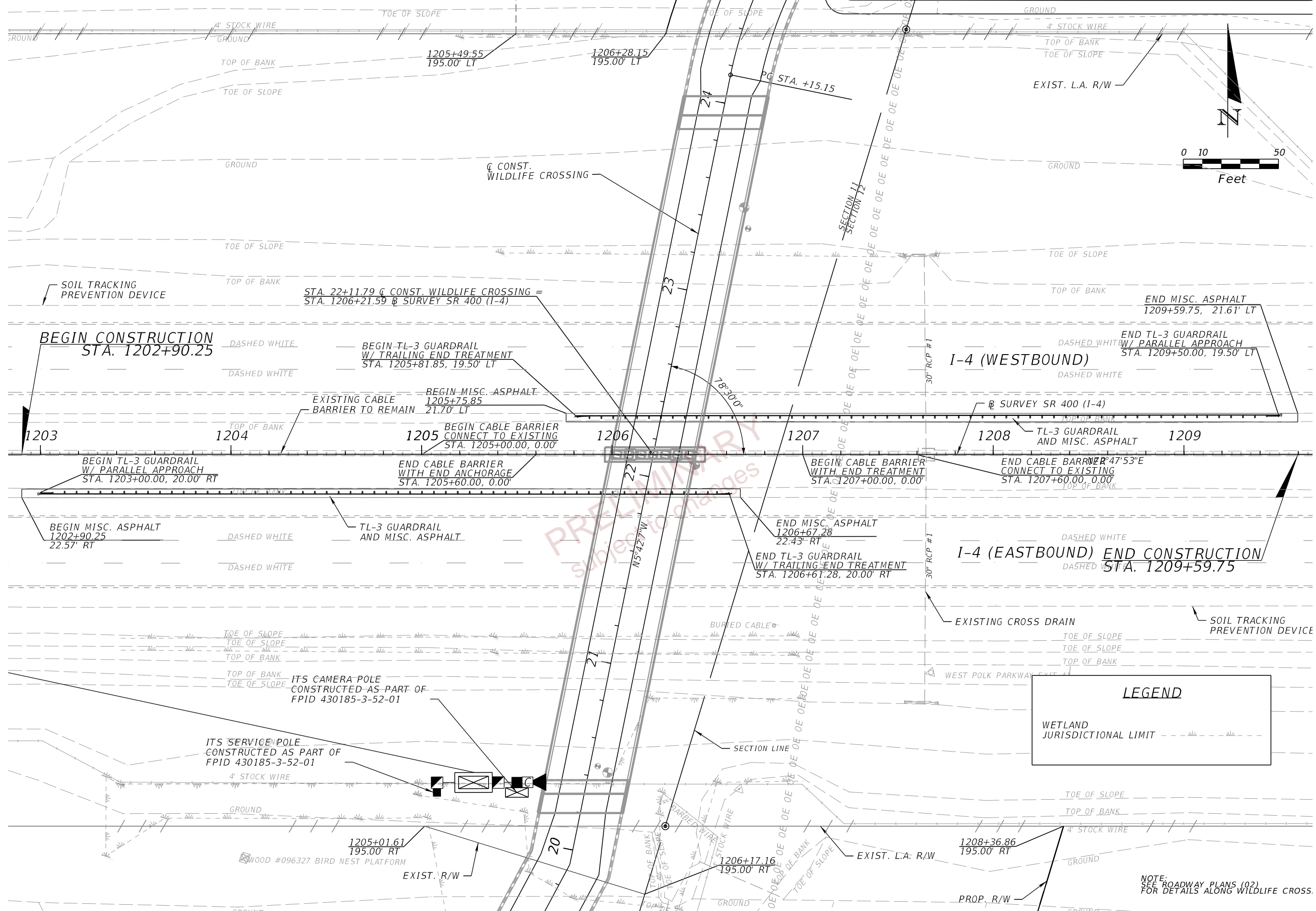
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MATCHLINE STA. 26+00.00

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

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	ROADWAY PLANS (03) 18
					SR 400	POLK	201214-8-52-01	



LEGEND

WETLAND JURISDICTIONAL LIMIT

NOTE:
SEE ROADWAY PLANS (02)
FOR DETAILS ALONG WILDLIFE CROSS.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		SR 400	POLK	201214-8-52-01	
ROADWAY PLANS (04)									19

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PRELIMINARY
 subject to changes

BEGIN PROFILE
 BEGIN PROJECT
 BEGIN CONSTRUCTION
 13+41.00

EXISTING GROUND AT
 CONST. WILDLIFE CROSSING

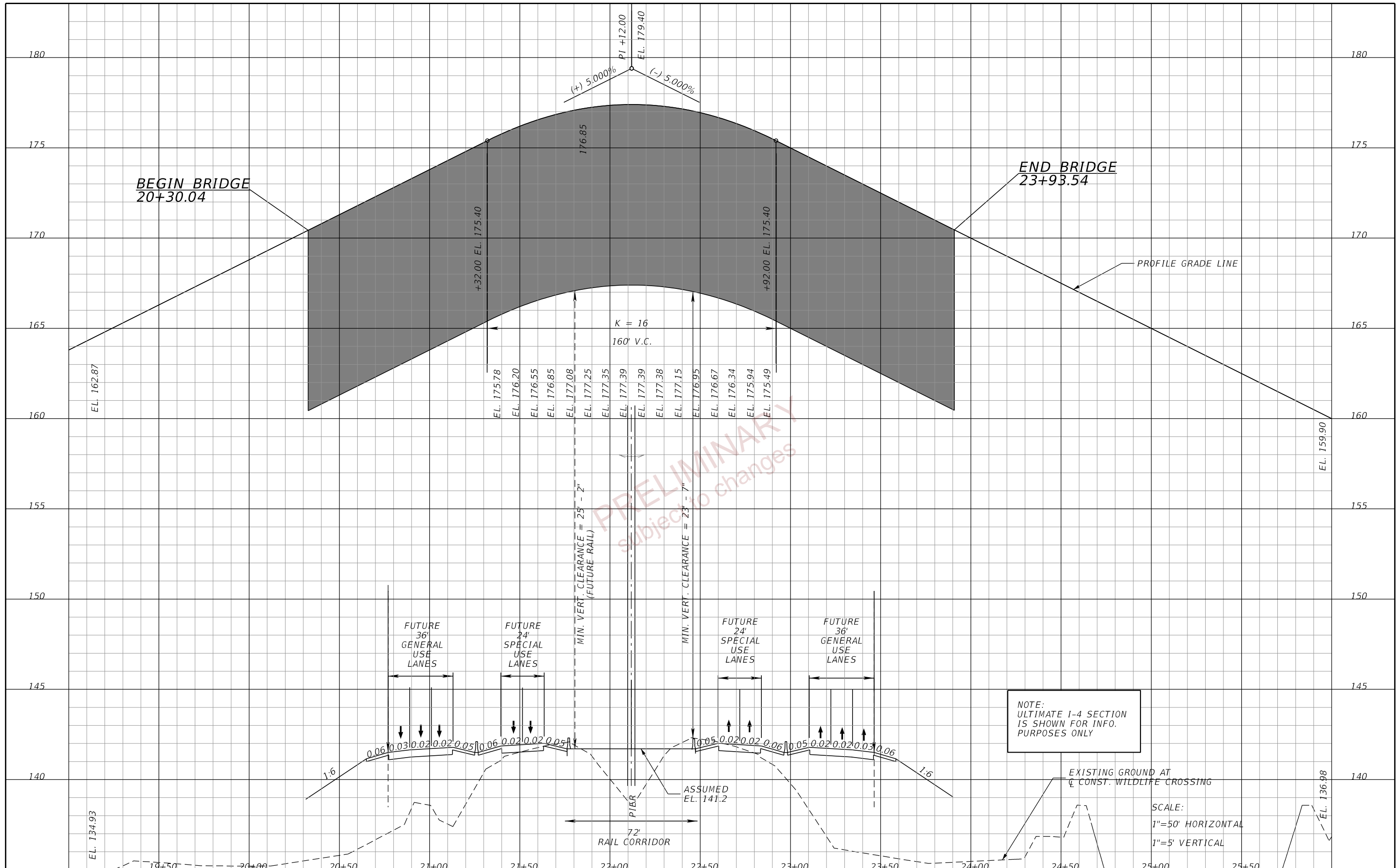
SCALE:
 1"=50' HORIZONTAL
 1"=5' VERTICAL

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PROFILES (01)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		20
				SR 400	POLK	201214-8-52-01		

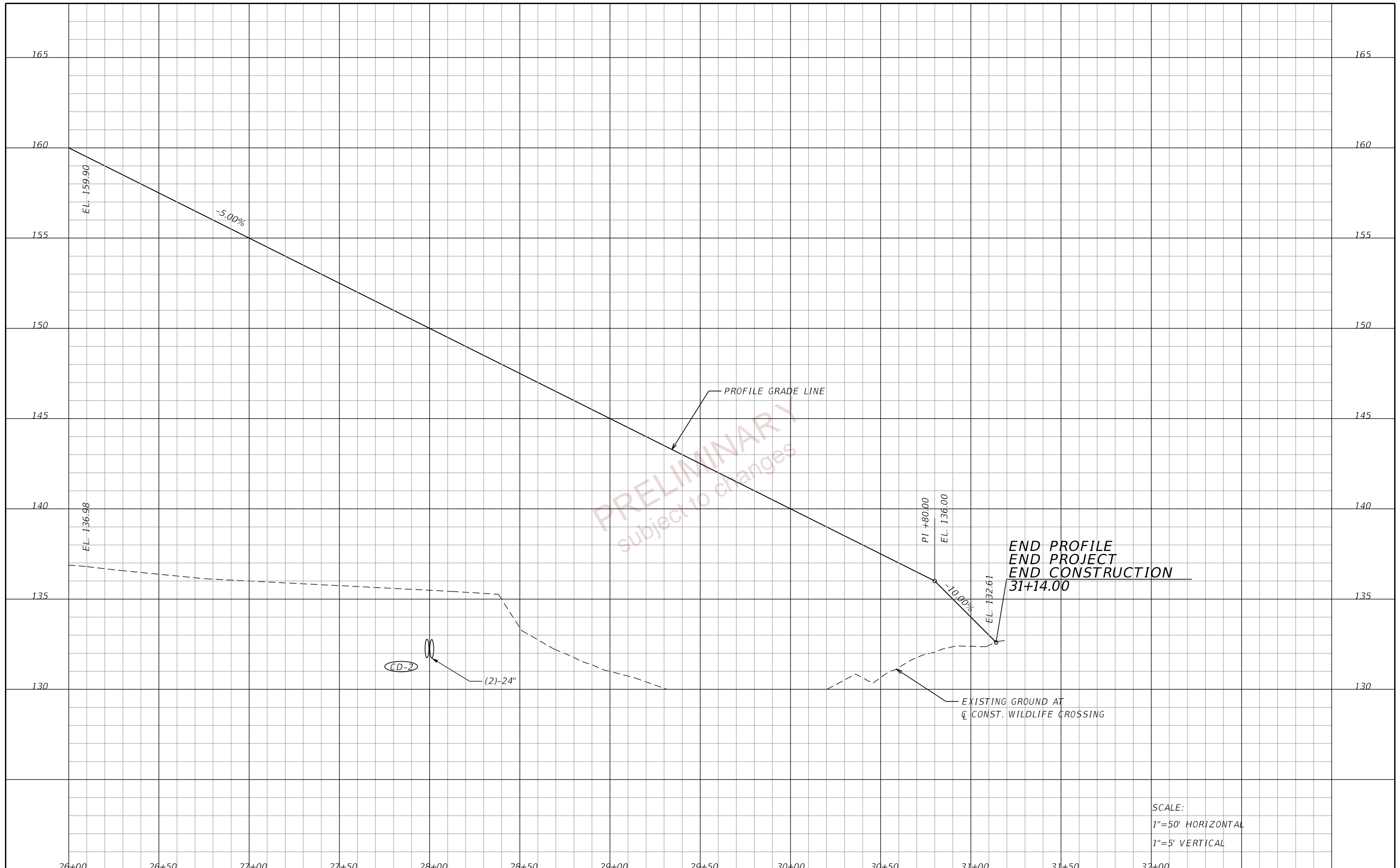
DEBANANDA PANIGRAHI, P.E.
 LICENSE NUMBER 68318
 H. W. LOCHNER
 4350 W. CYPRESS STREET, SUITE 800
 TAMPA, FLORIDA 33607

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

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DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION	
<p>ENGINEER OF RECORD: DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607</p>									
STATE OF FLORIDA					DEPARTMENT OF TRANSPORTATION				
ROAD NO.		COUNTY		FINANCIAL PROJECT ID					
SR 400		POLK		201214-8-52-01					
ROADWAY PROFILES (02)									SHEET NO.
									21



PRELIMINARY
 subject to changes

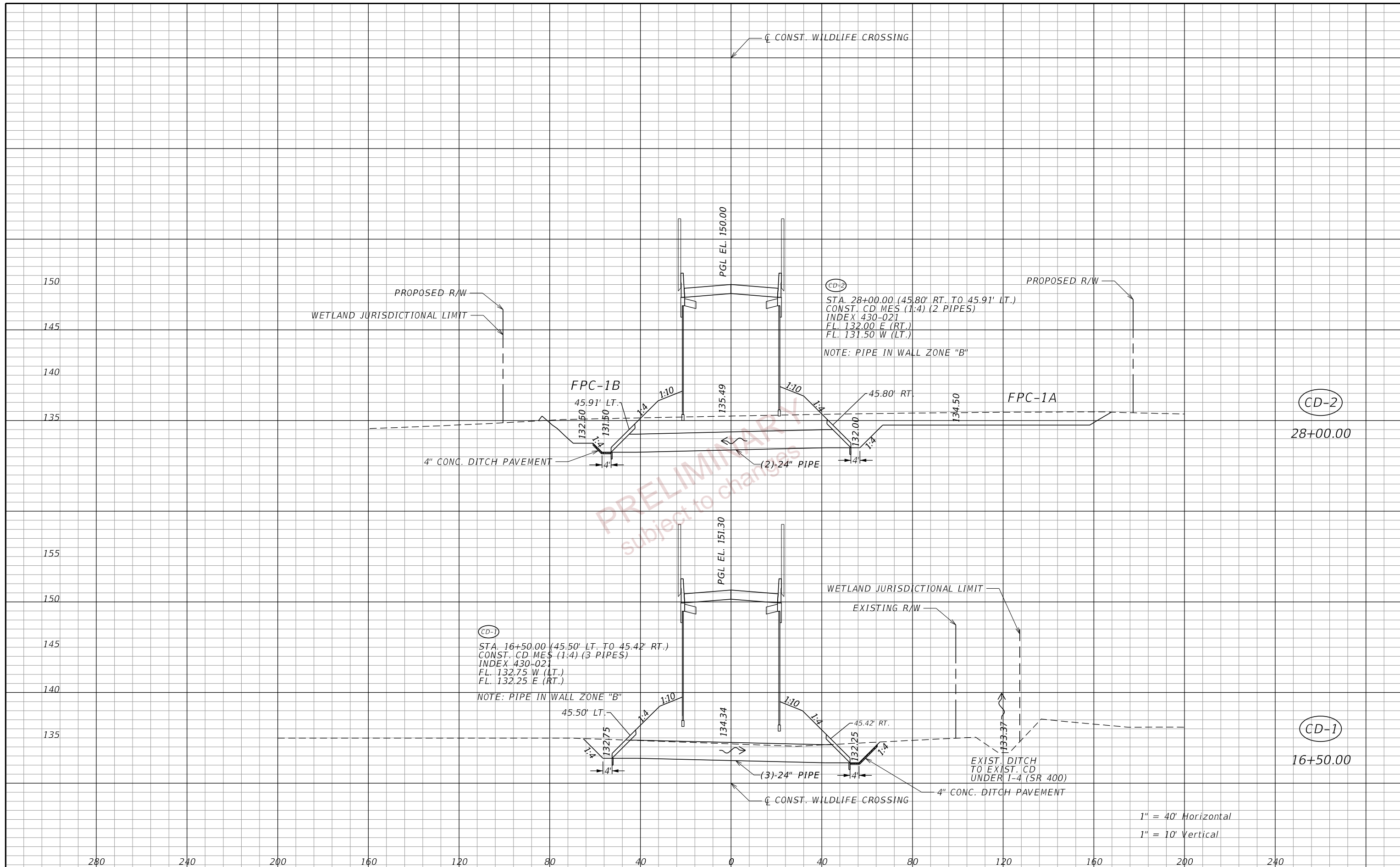
END PROFILE
 END PROJECT
 END CONSTRUCTION
 31+14.00

SCALE:
 1"=50' HORIZONTAL
 1"=5' VERTICAL

DATE	DESCRIPTION	DATE	DESCRIPTION	ENGINEER OF RECORD DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROADWAY PROFILES (03)	SHEET NO. 22						
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID											
SR 400	POLK	201214-8-52-01											

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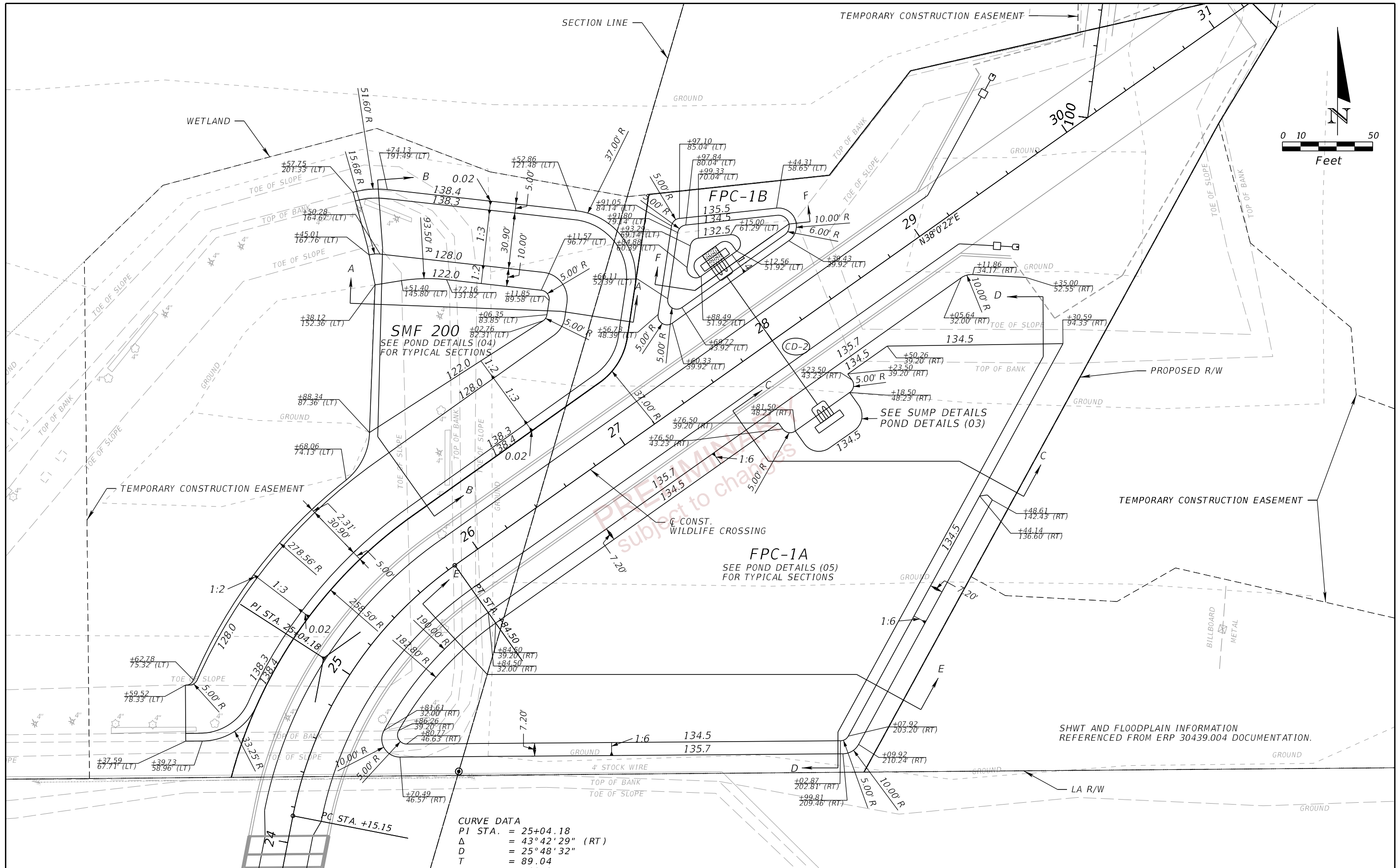


(CD-2)
 STA. 28+00.00 (45.80' RT. TO 45.91' LT.)
 CONST. CD MES (1:4) (2 PIPES)
 INDEX 430-021
 FL. 132.00 E (RT.)
 FL. 131.50 W (LT.)
 NOTE: PIPE IN WALL ZONE "B"

(CD-1)
 STA. 16+50.00 (45.50' LT. TO 45.42' RT.)
 CONST. CD MES (1:4) (3 PIPES)
 INDEX 430-021
 FL. 132.75 W (LT.)
 FL. 132.25 E (RT.)
 NOTE: PIPE IN WALL ZONE "B"

1" = 40' Horizontal
 1" = 10' Vertical

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO. 23
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400	POLK	201214-8-52-01		

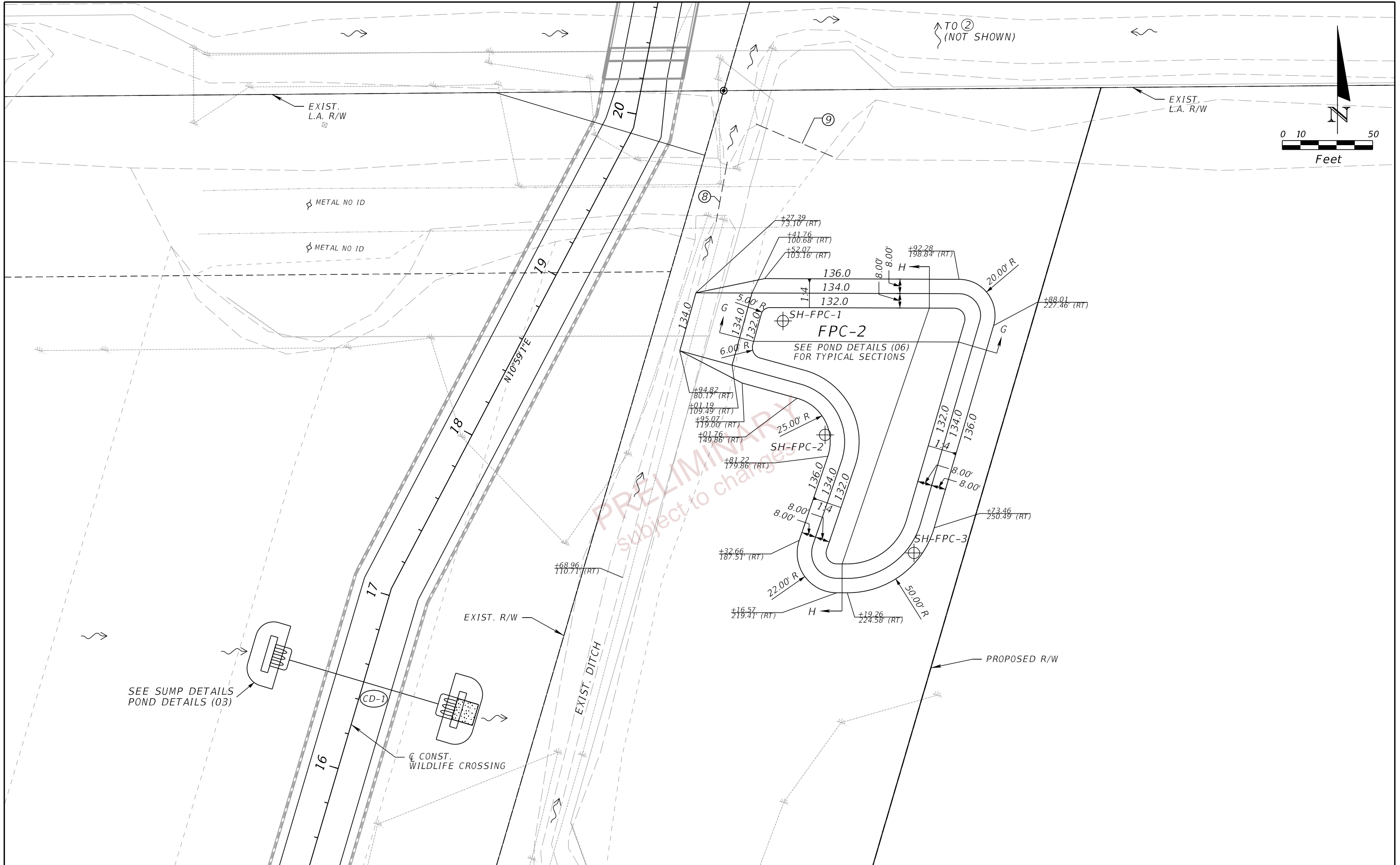


CURVE DATA
 PI STA. = 25+04.18
 Δ = 43° 42' 29" (RT)
 D = 25° 48' 32"
 T = 89.04

SHWT AND FLOODPLAIN INFORMATION
 REFERENCED FROM ERP 30439.004 DOCUMENTATION.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LÖCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	POND DETAILS (01) 24
					SR 400	POLK	201214-8-52-01	

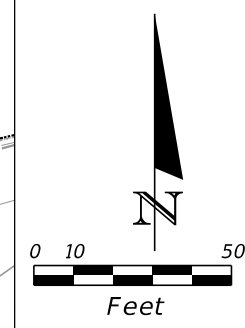
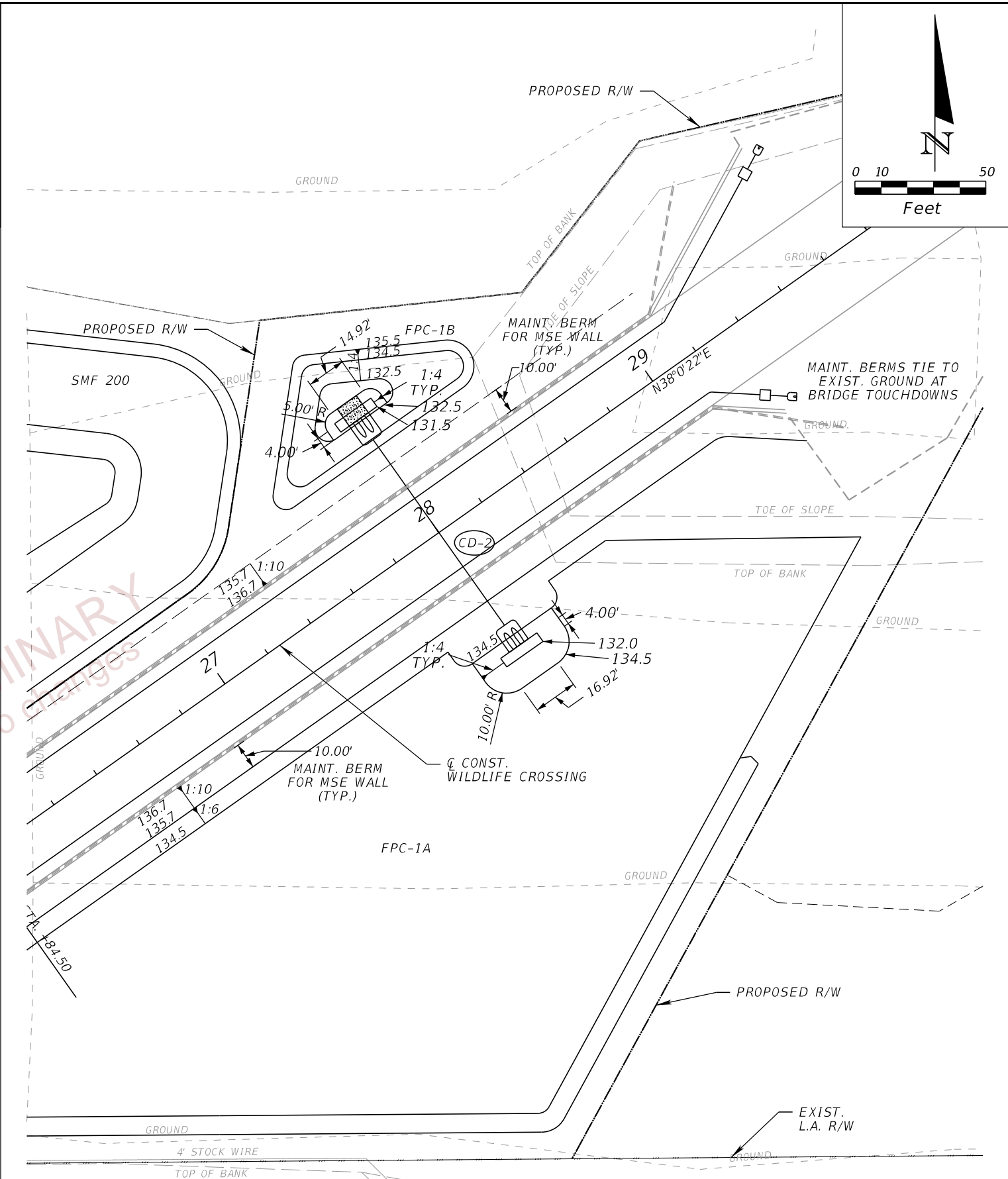
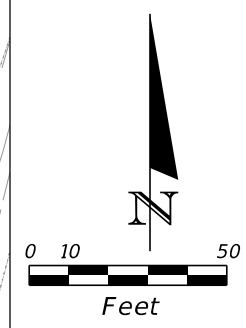
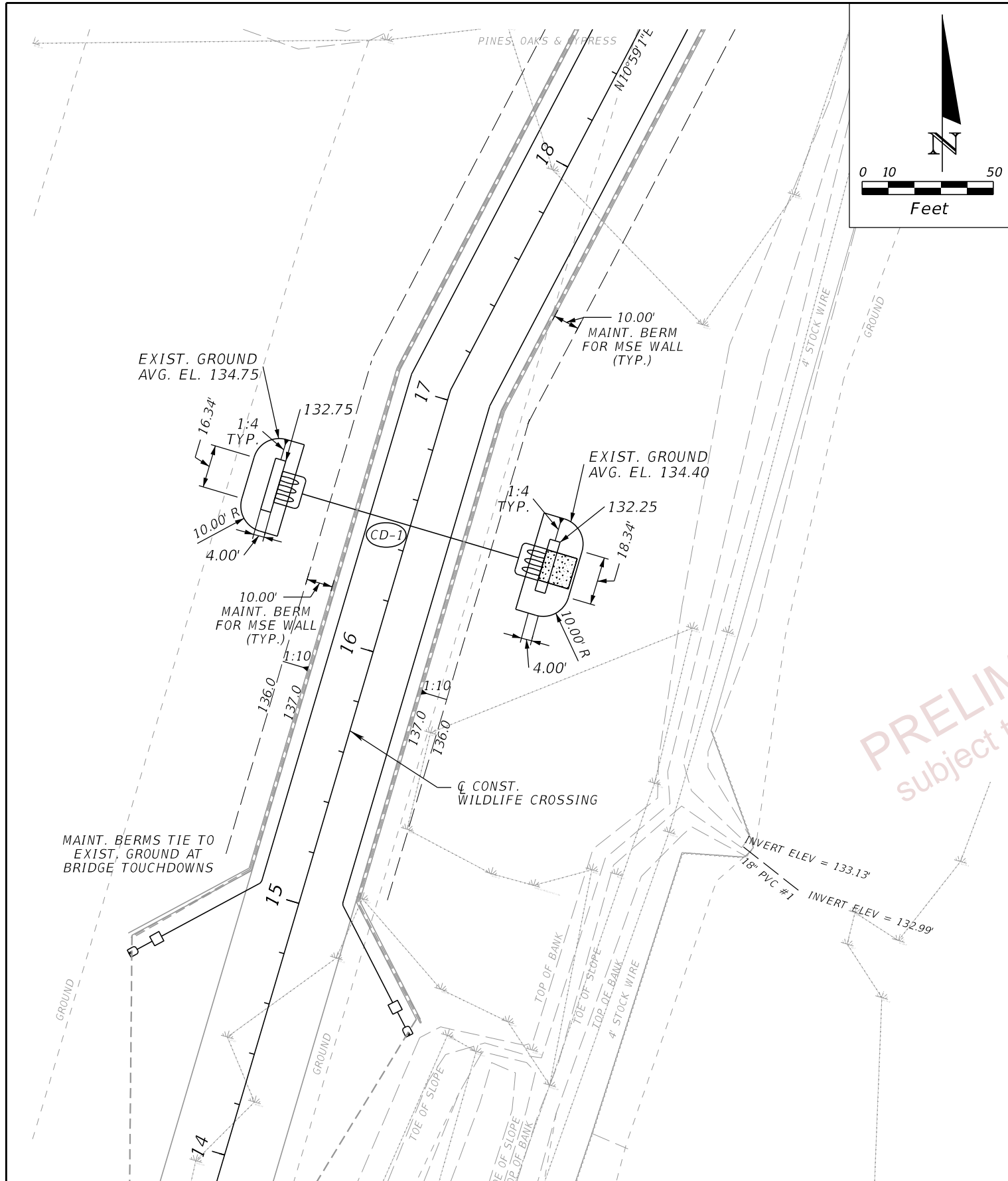
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 25
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	

POND DETAILS (02)



PRELIMINARY
subject to changes

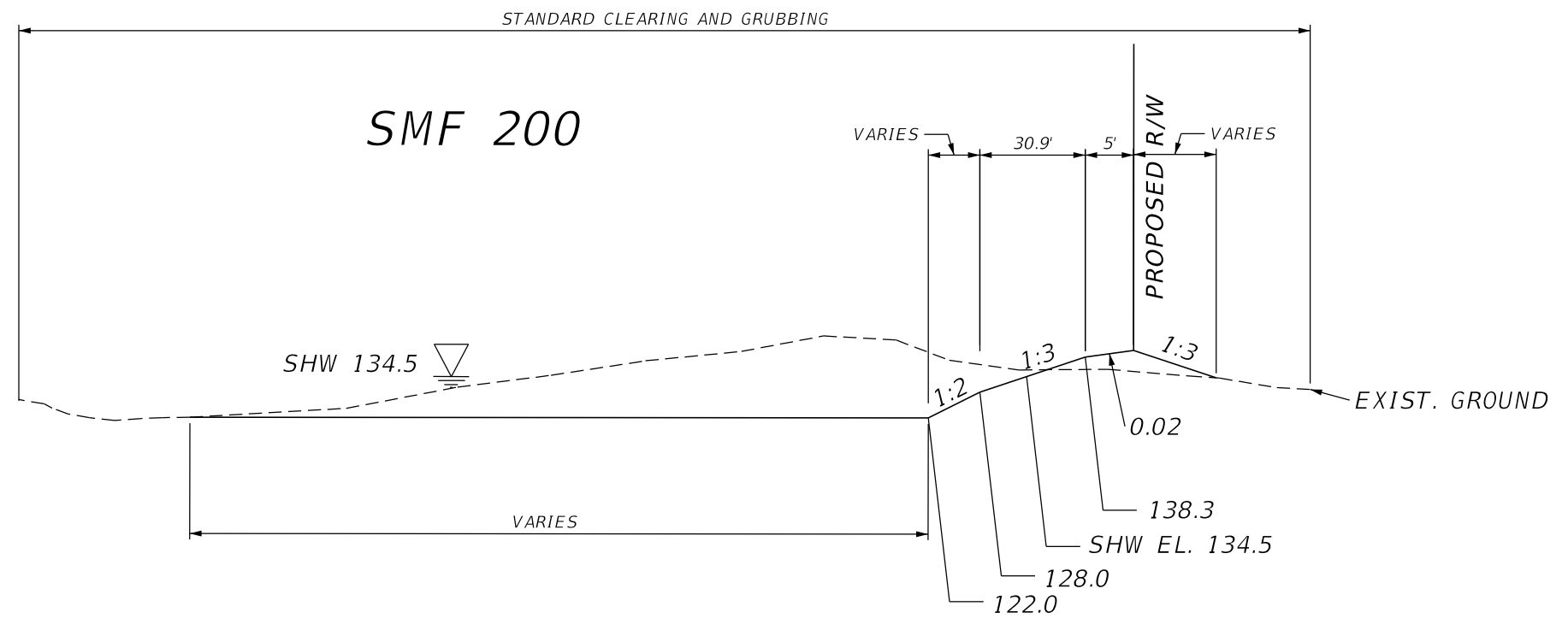
**CD-1, STA. 16+50.00
SUMP DETAILS**

**CD-2, STA. 28+00.00
SUMP DETAILS**

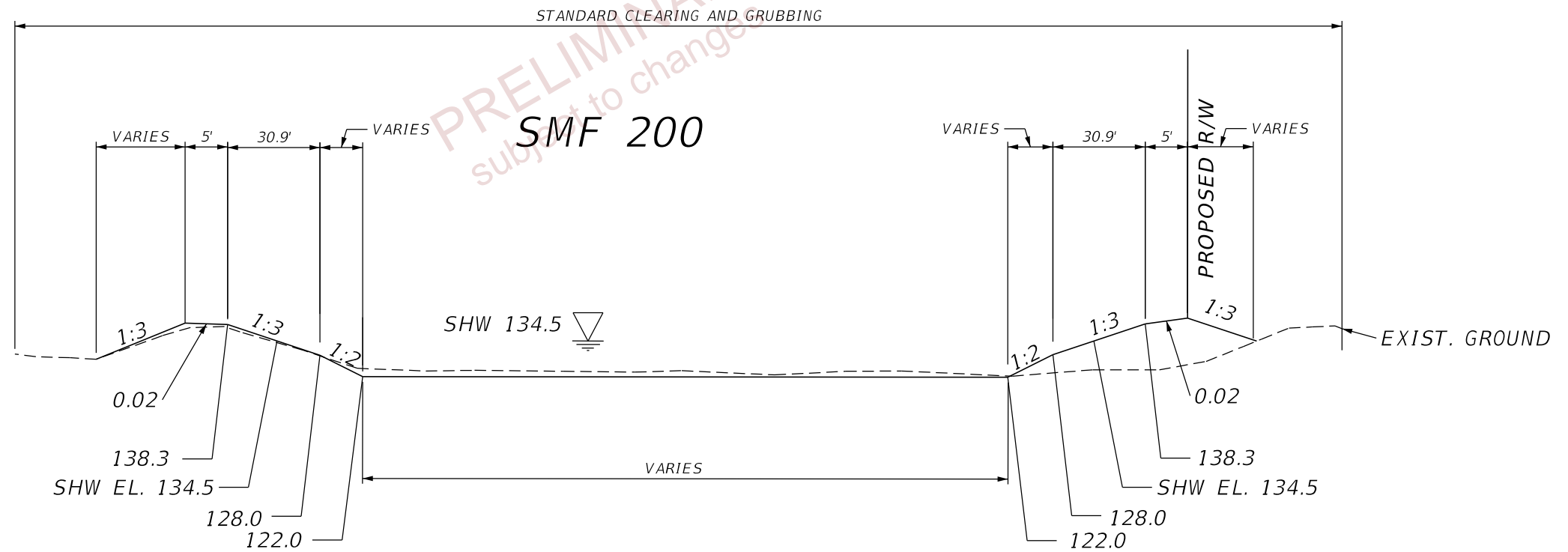
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	SR 400	POLK	201214-8-52-01	POND DETAILS (03) 26

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

NOTE: SMF 200 IS AN EXISTING WET DETENTION STORMWATER TREATMENT POND, CONSTRUCTED UNDER ERP NO. 30439.004. THE GEOMETRY OF SMF 200 WILL BE MODIFIED BY THIS PROJECT TO ACCOMMODATE THE FOOTPRINT OF THE WILDLIFE CROSSING OVER I-4 (SR 400).

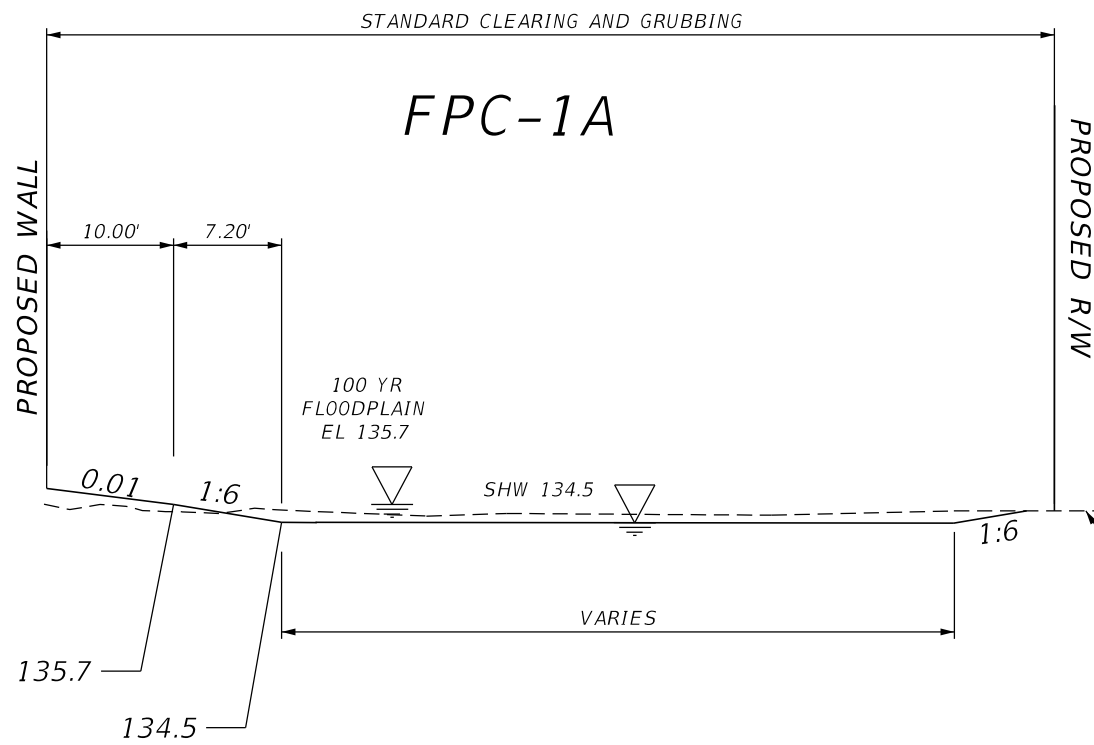


SECTION A-A
NTS

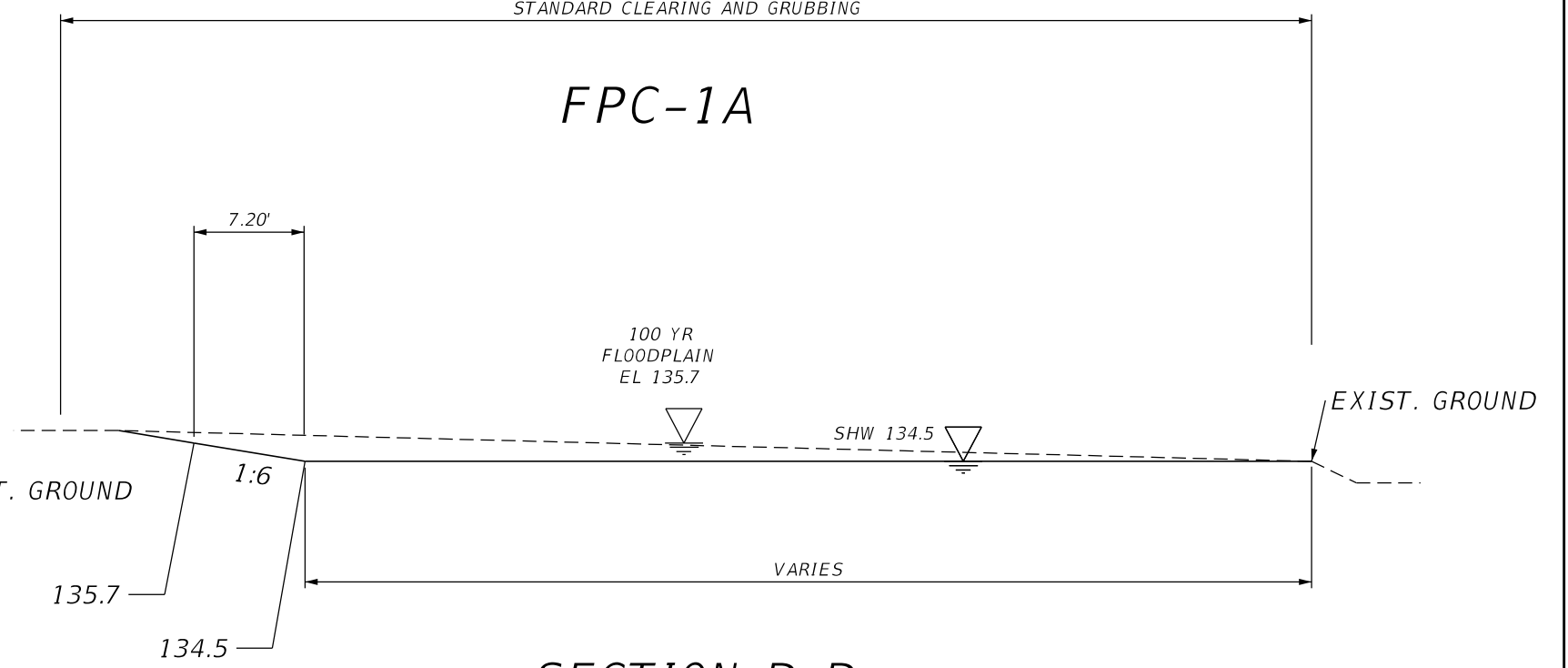


SECTION B-B
NTS

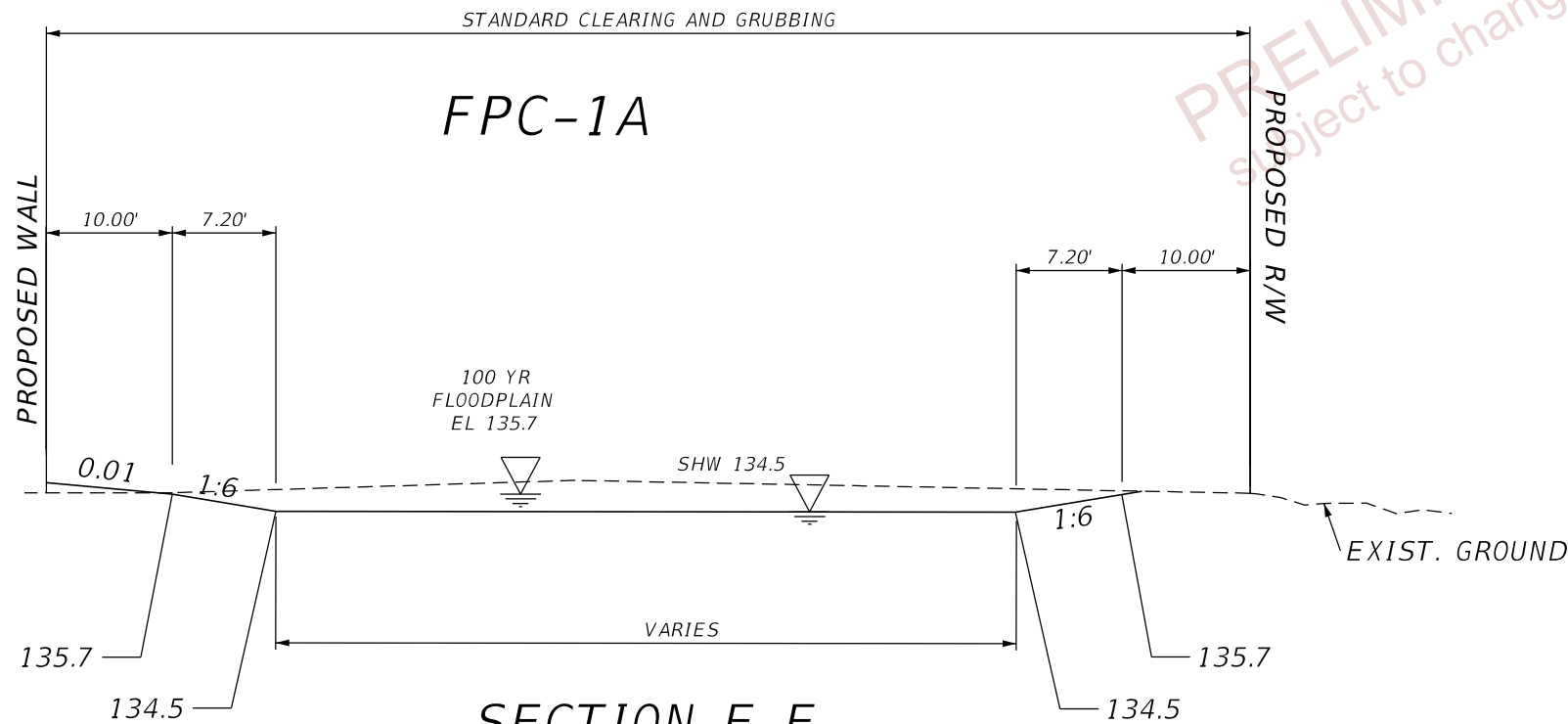
REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POND DETAILS (04)	SHEET NO. 27
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400			POLK	201214-8-52-01			



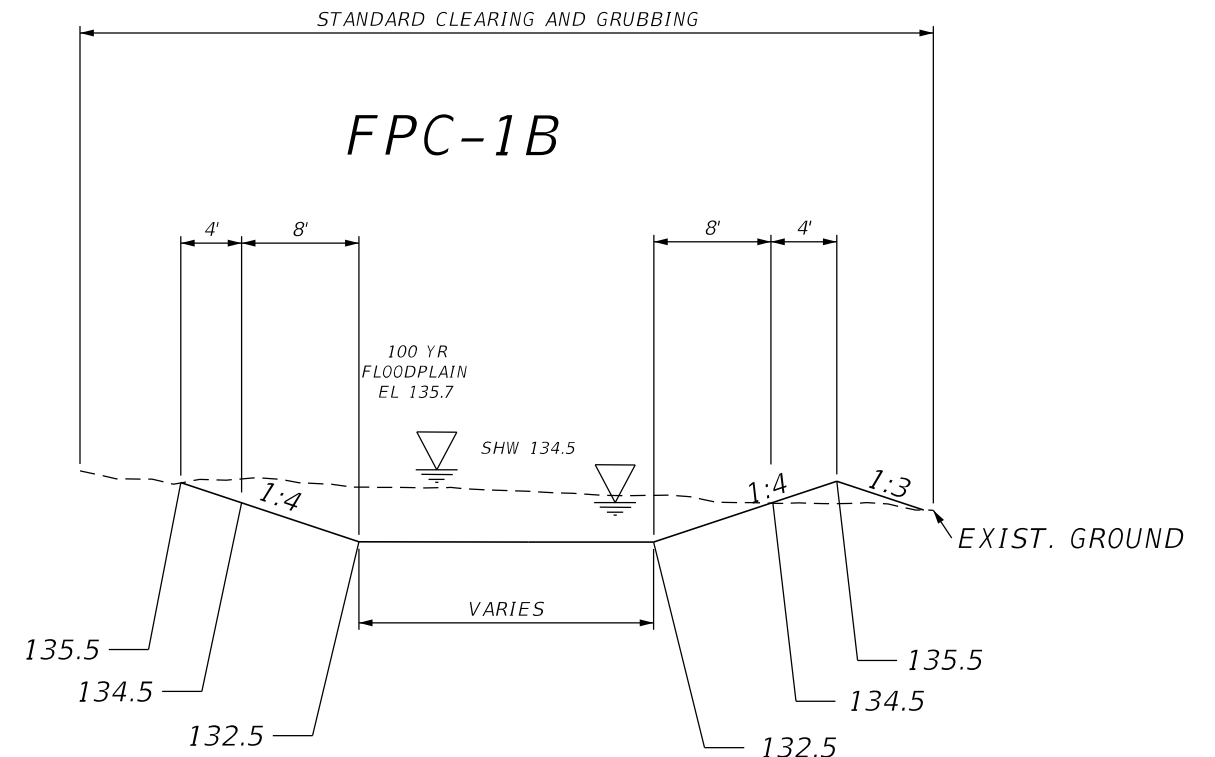
SECTION C-C
NTS



SECTION D-D
NTS



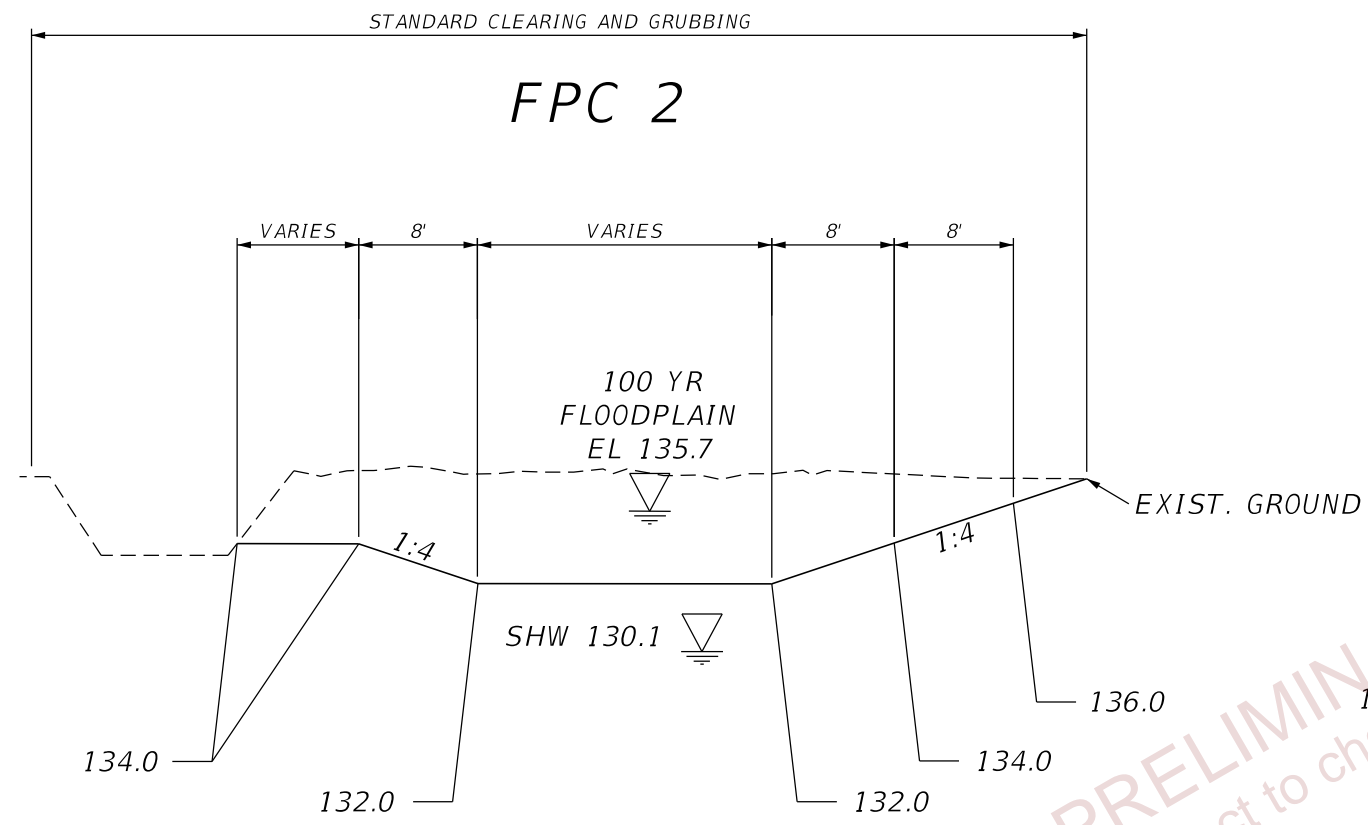
SECTION E-E
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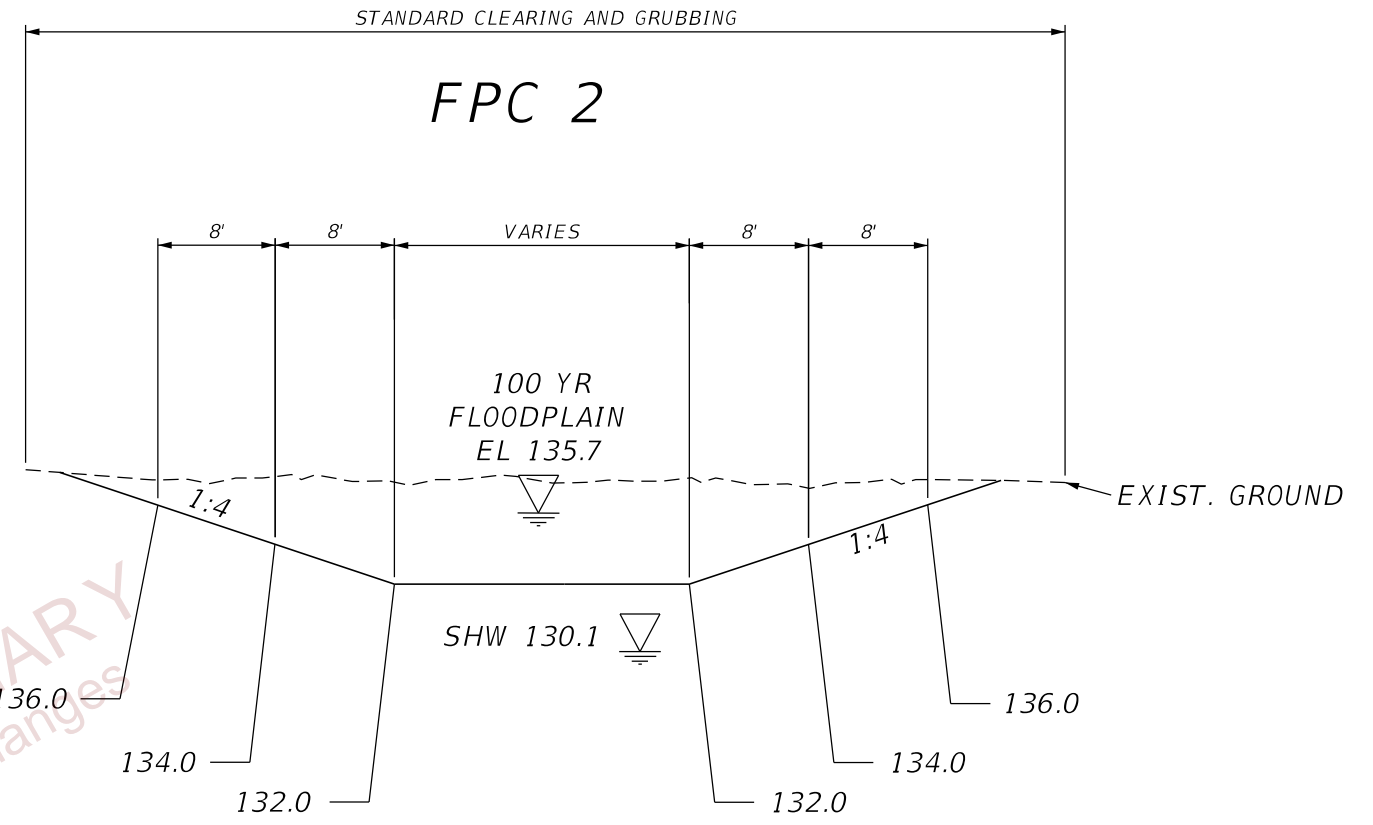
SECTION F-F
NTS

PRELIMINARY
 Subject to changes

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 28
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400			POLK	201214-8-52-01	POND DETAILS (05)	



SECTION G-G
NTS

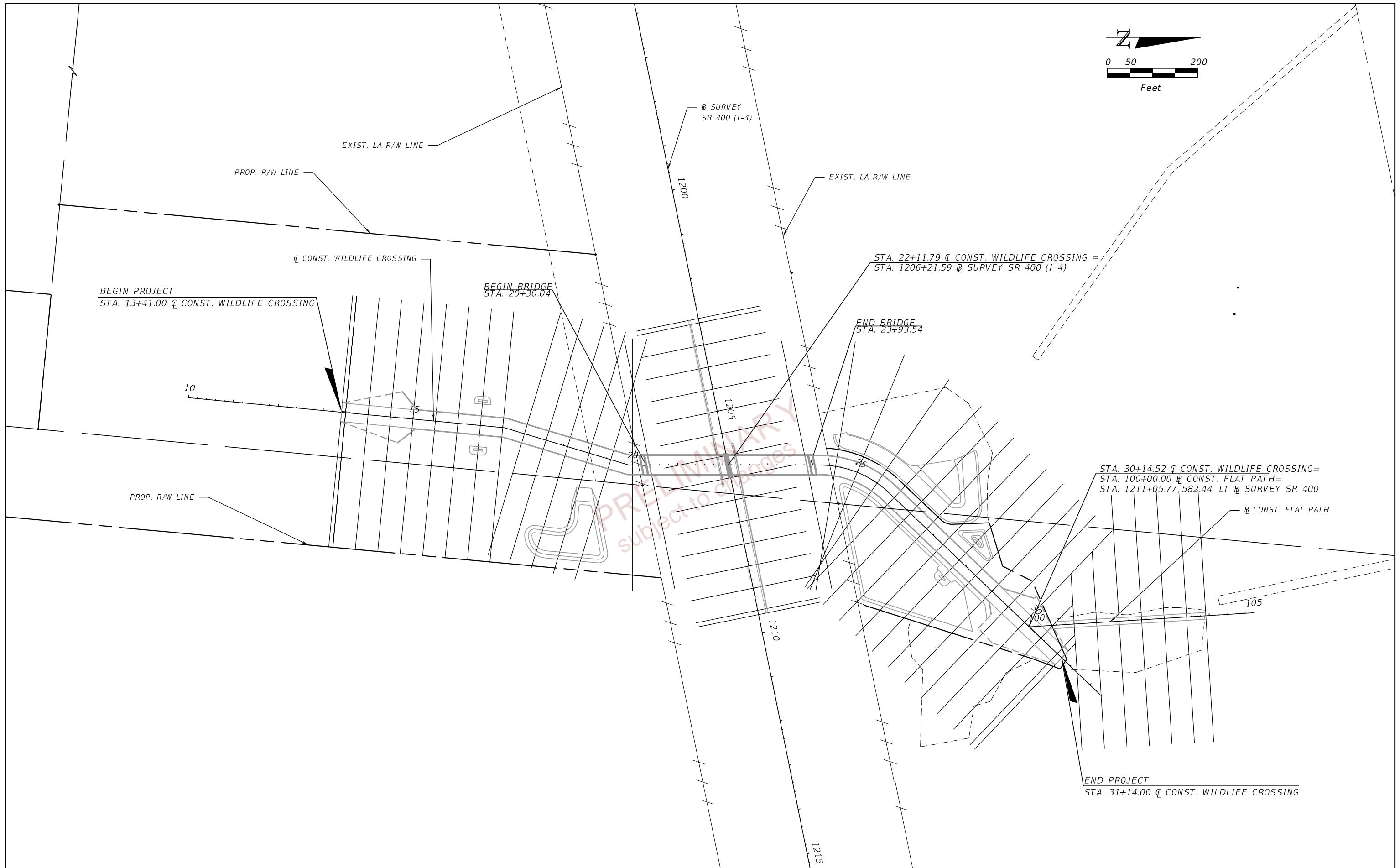
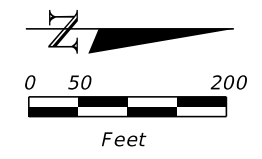


SECTION H-H
NTS

PRELIMINARY
subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POND DETAILS (06)	SHEET NO. 29
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA			CROSS SECTION PATTERN LINES	SHEET NO. 30
DATE	DESCRIPTION	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			SR 400	POLK	201214-8-52-01		

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY: SEPTEMBER 2015 - JUNE 2022
SURVEY MADE BY: TIERRA, INC.
SUBMITTED BY: LAWRENCE P. MOORE, P.E.

DISTRICT: ONE
ROAD NO.: SR 400
COUNTY: POLK

FINANCIAL PROJECT ID : 201214-8-52-01
PROJECT NAME: WILDLIFE OVERPASS

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 20+30.04 SURVEY ENDS STA. : 31+14.00 REFERENCE: CENTERLINE OF CONSTRUCTION OF WILDLIFE CROSSING

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			AASHTO GROUP	DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX			NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH	
1	1	1	1	21	34	100	91-97	57-77	23-47	6-14	--	--	--	A-3/A-2-4	LIGHT GRAY TO DARK BROWN FINE SAND TO SAND WITH SILT	10	6,400-27,000	15-30	<5-6	5.4-7.9
2	2	2	3	14-28	27	100	93-97	64-80	33-57	15-35	--	--	--	A-2-4	LIGHT GRAY TO DARK BROWN SILTY SAND	9	3,300-28,000	15	<5-34	4.2-7.9
3	9	3-4	38	11-34	45	100	76-97	45-82	31-61	14-35	33	15-38	3-24	A-2-4/A-2-6	LIGHT GRAY TO BROWN TO RED SILTY SAND TO CLAYEY SAND	--	--	--	--	--
4	--	--	55	14-55	55	100	95-97	75-86	53-72	36-90	55	24-48	9-32	A-4/A-6/A-7-6	LIGHT GRAY TO BROWN TO RED CLAYEY SAND TO SANDY CLAY	--	--	--	--	--
5	--	--	12	15-66	12	100	97	83	68	41-93	12	50-156	30-118	A-7-5/A-7-6	LIGHT GRAY TO PALE BROWN TO PALE BLUE-GREEN TO DARK GREEN CLAYEY SAND TO CLAY	--	--	--	--	--
6	77	5-76	77	27-457	77	100	59-96	41-78	23-57	7-70	--	--	--	A-8	DARK BROWN TO BLACK SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL	--	--	--	--	--
7	--	--	--	--	1	--	--	--	--	15	--	--	--	A-2-4	LIGHT GRAY TO DARK BROWN FINE SAND TO SILTY SAND WITH CLAY NODULES, OCCASIONALLY WITH LIMESTONE (FILL)	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	WEATHERED LIMESTONE	--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

NOTES:

- THE MATERIAL FROM STRATUM 1 (A-3/A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- THE MATERIAL FROM STRATA 2 AND 7 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
- THE MATERIAL FROM STRATA 3 AND 4 (A-2-4/A-2-6/A-4/A-6/A-7-6) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- THE MATERIAL FROM STRATUM 5 (A-7-5/A-7-6) IS HIGH PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.

- THE MATERIAL FROM STRATUM 6 (A-8) IS SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. THE REMOVAL LIMITS ARE SHOWN ON THE ORGANIC MATERIAL DELINEATION SHEETS AND ON THE ROADWAY CROSS SECTIONS.
- THE MATERIAL FROM STRATUM NUMBER 8 IS A NATURAL LIMESTONE FORMATION. SPECIAL TOOLS AND EQUIPMENT WILL BE REQUIRED TO EXCAVATE AND/OR DEWATER THIS MATERIAL.
- THE PARAMETERS PRESENTED ON THIS ROADWAY SOIL SURVEY INCLUDE DATA FROM FINANCIAL PROJECT ID'S 430185-3-52-01 AND 201214-8-52-01.
- THE "--" INDICATES AN UNMEASURED PARAMETER

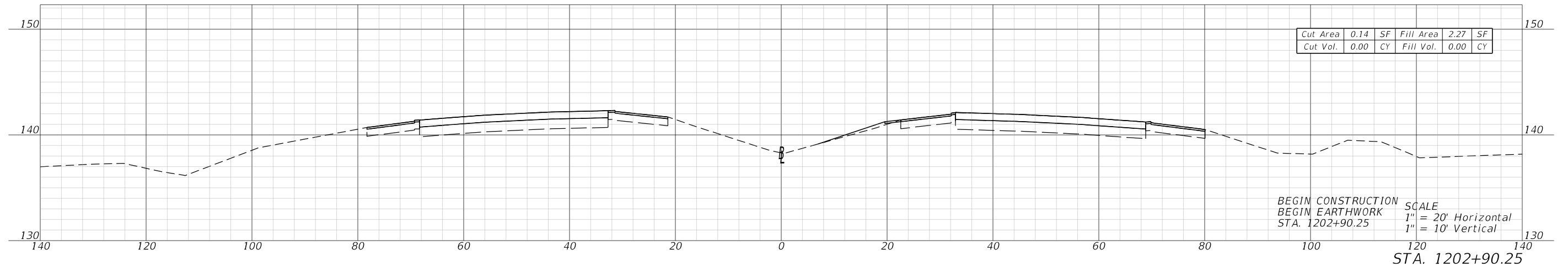
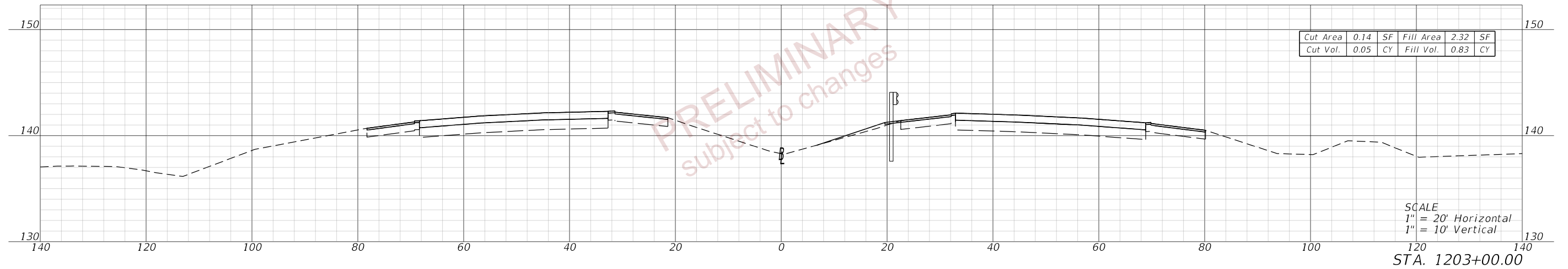
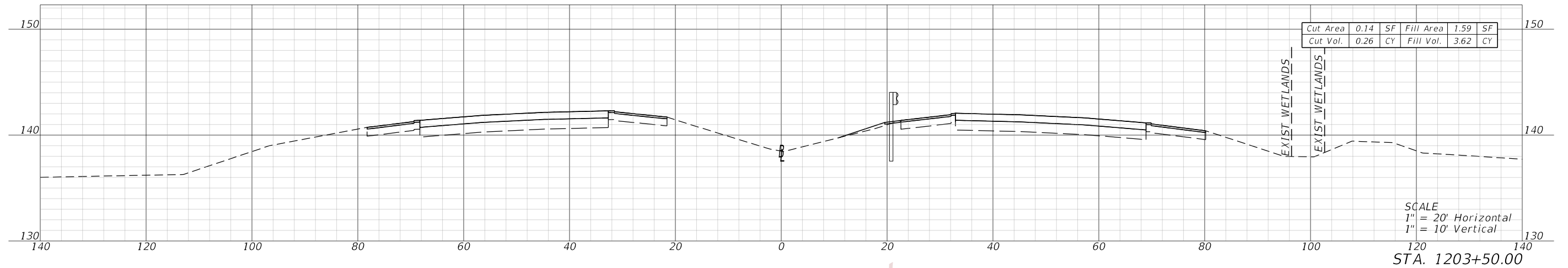
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REVISIONS				LAWRENCE P. MOORE, P.E. P.E. LICENSE NUMBER 47673 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY	SHEET NO. 31
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 33	POLK	201214-8-52-01		

NOTE:

SEE STRUCTURE PLANS FOR INFORMATION ON SOILS AND SOIL BORINGS



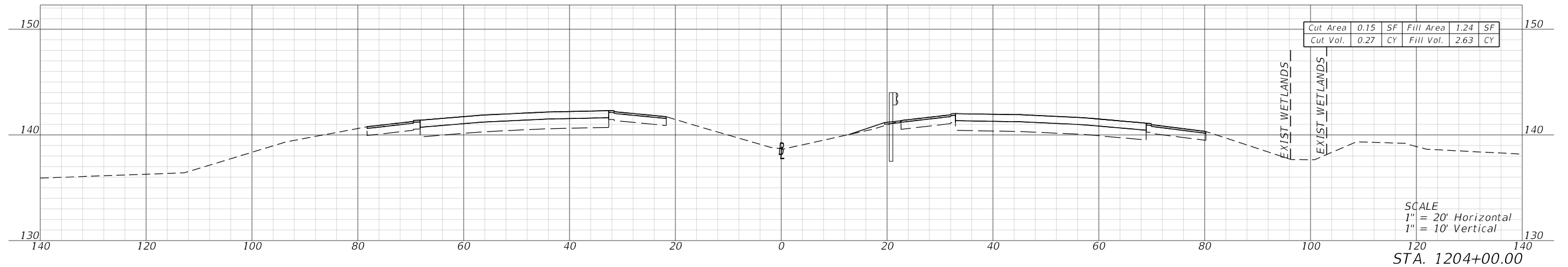
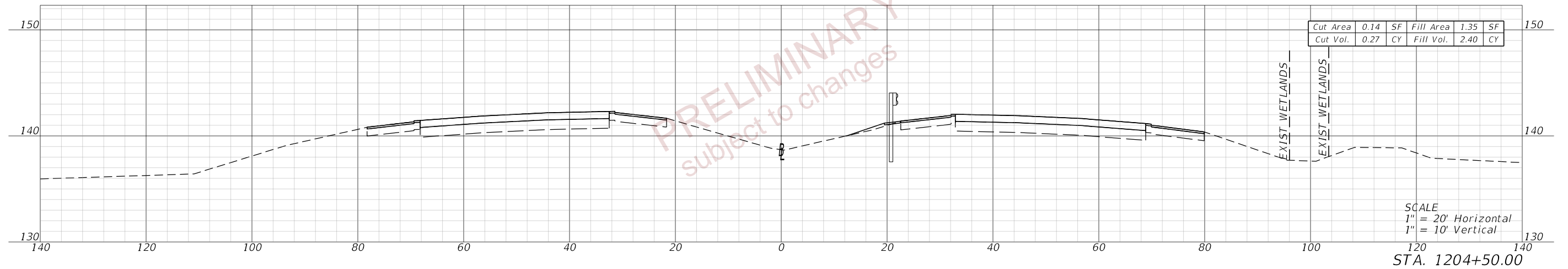
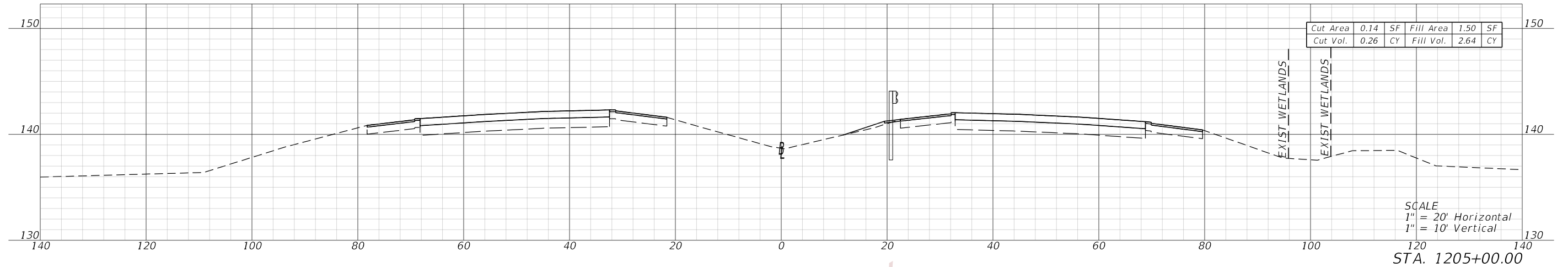
PRELIMINARY
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (01) SR 400	SHEET NO. 32
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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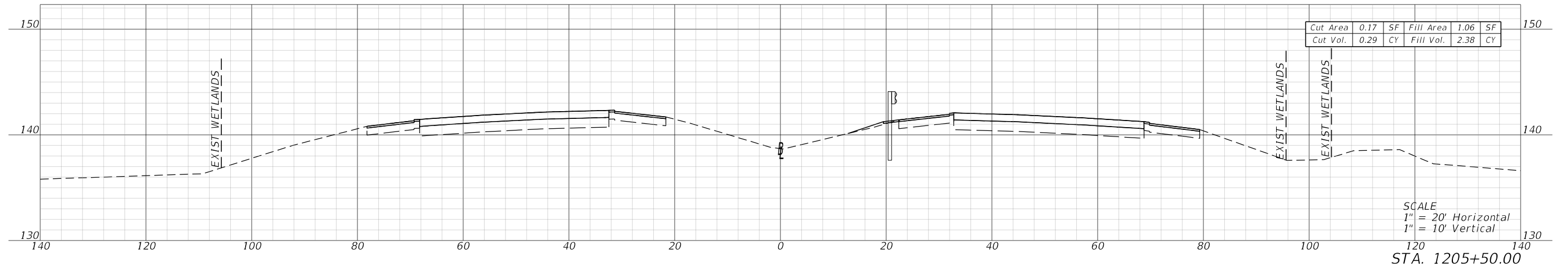
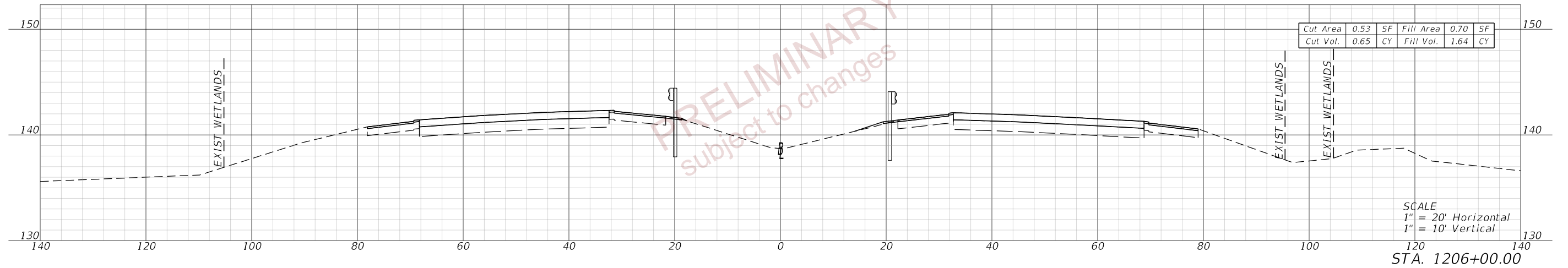
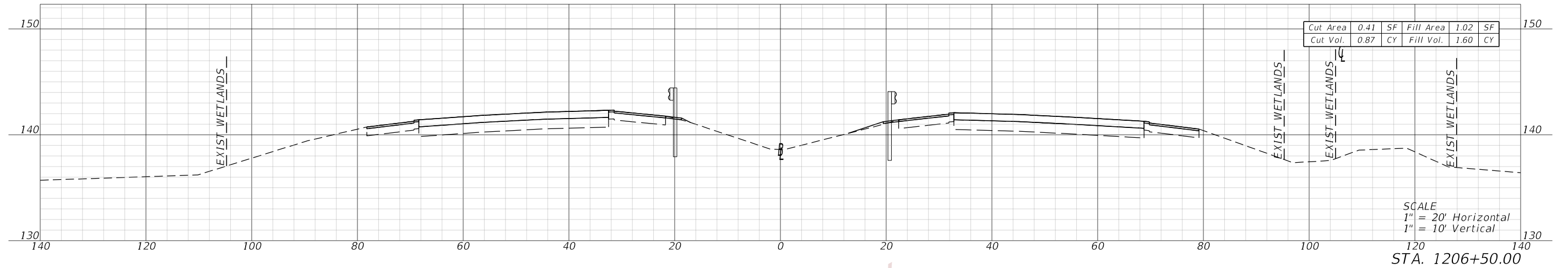


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (02) SR 400	SHEET NO. 33
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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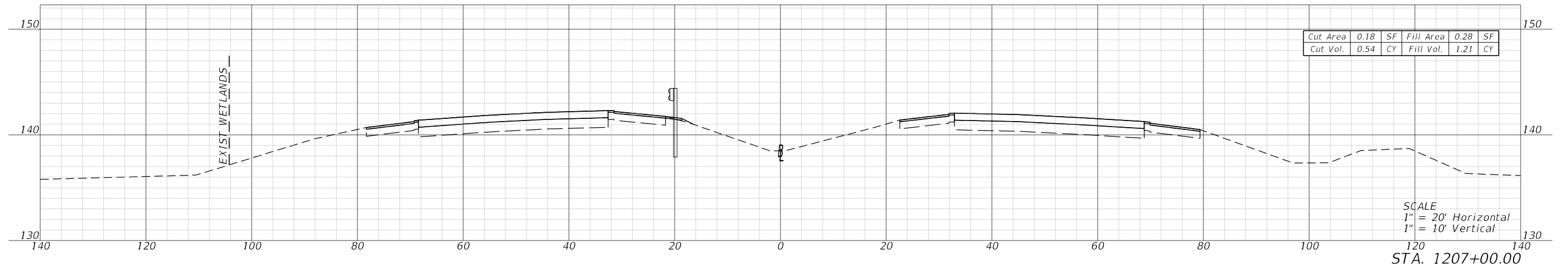
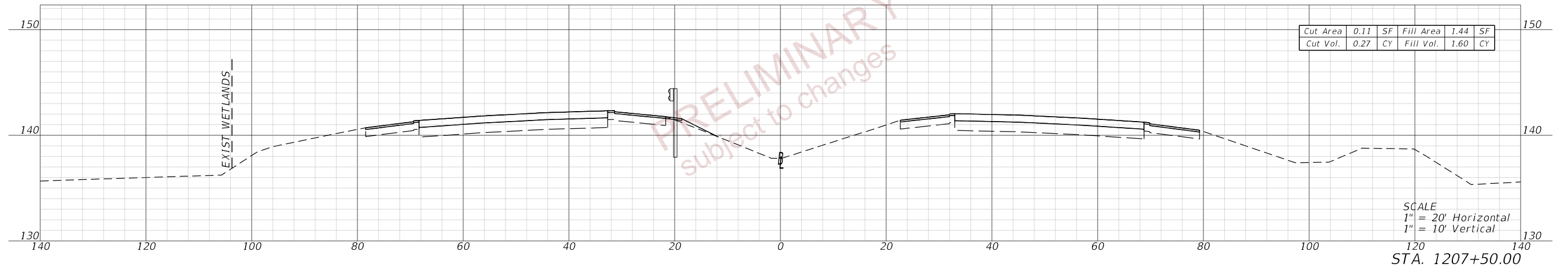
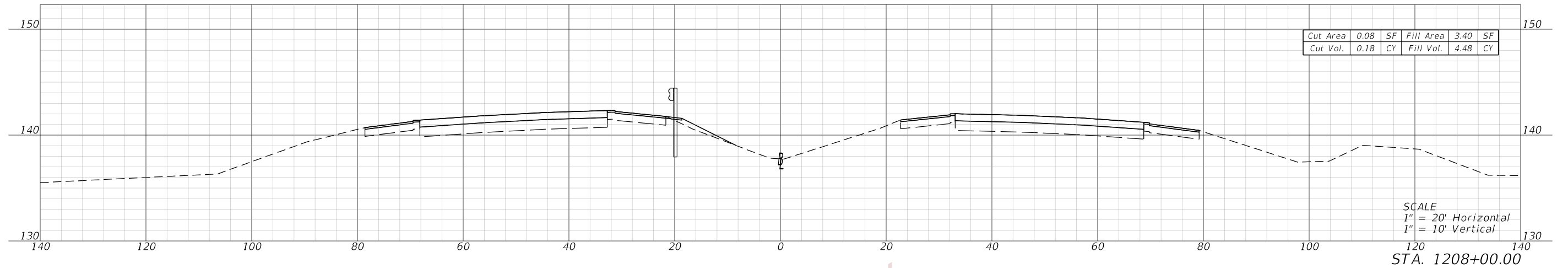


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (03) SR 400	SHEET NO. 34
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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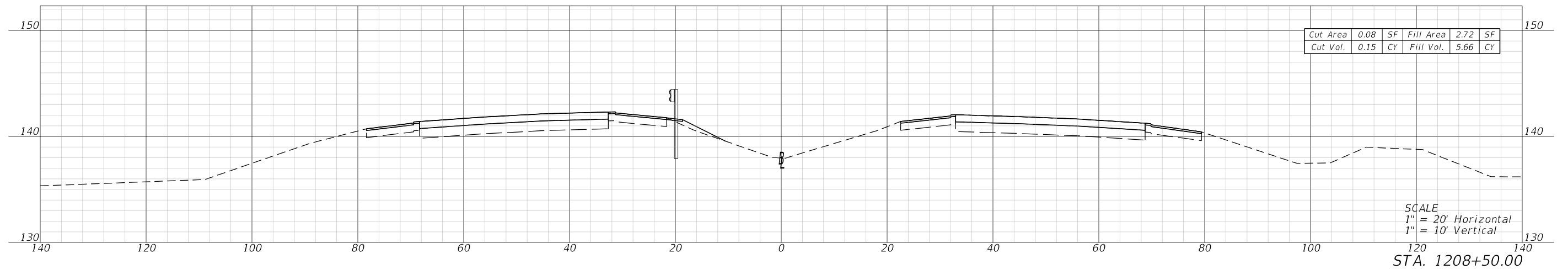
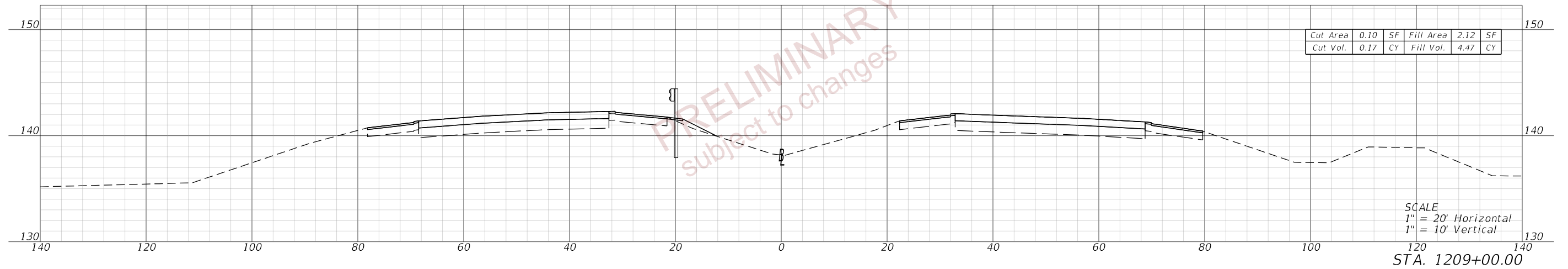
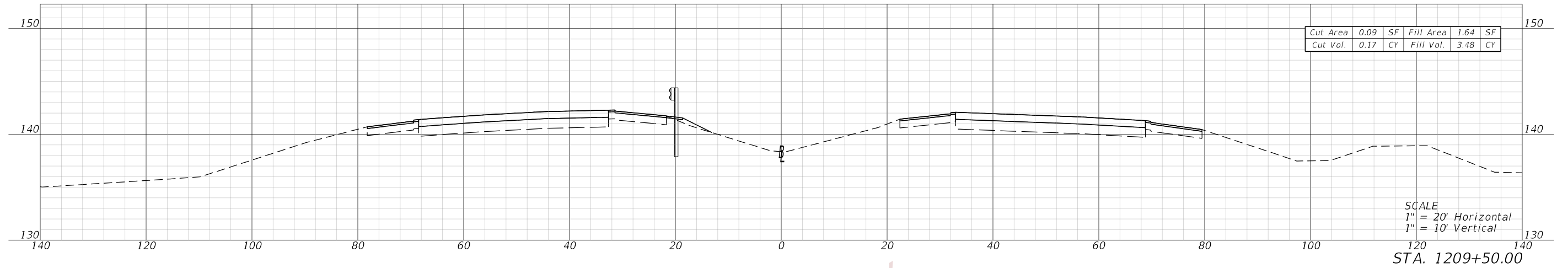


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (04) SR 400	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		35
								SR 400		

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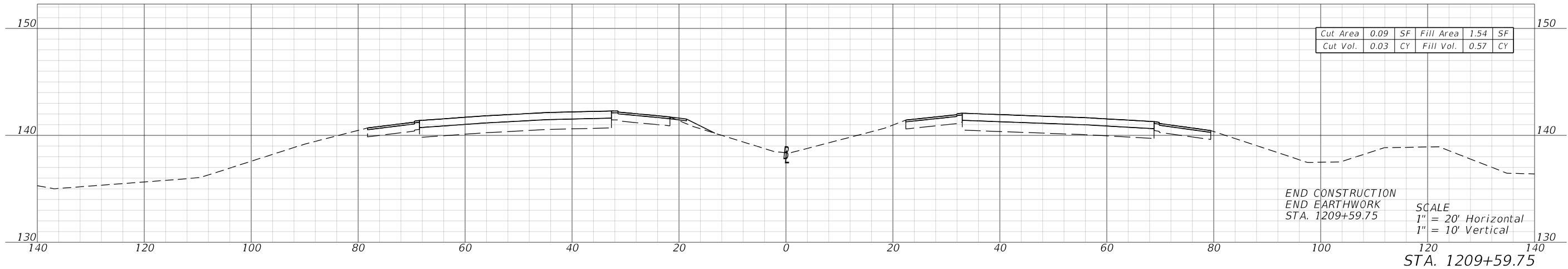


PRELIMINARY
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (05) SR 400	SHEET NO. 36
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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PRELIMINARY
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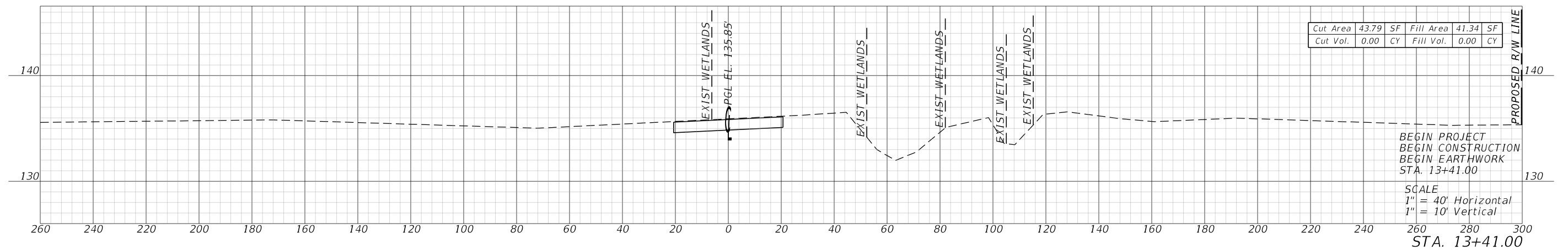
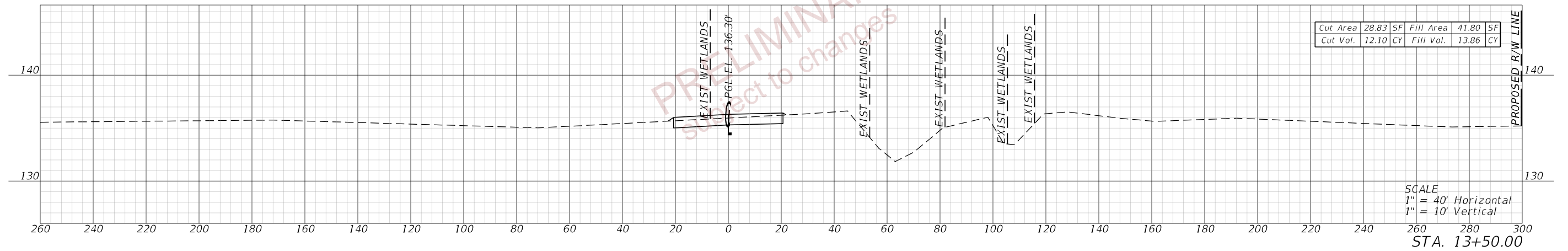
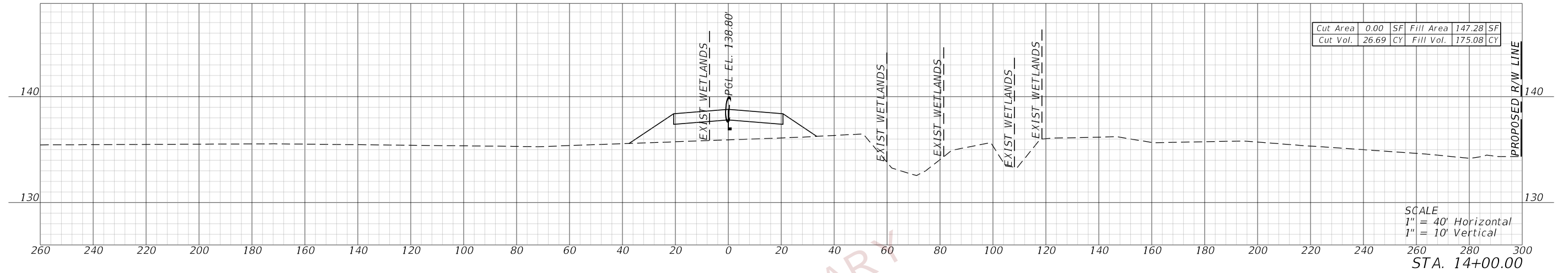


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (06) SR 400	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		37
								SR 400		POLK

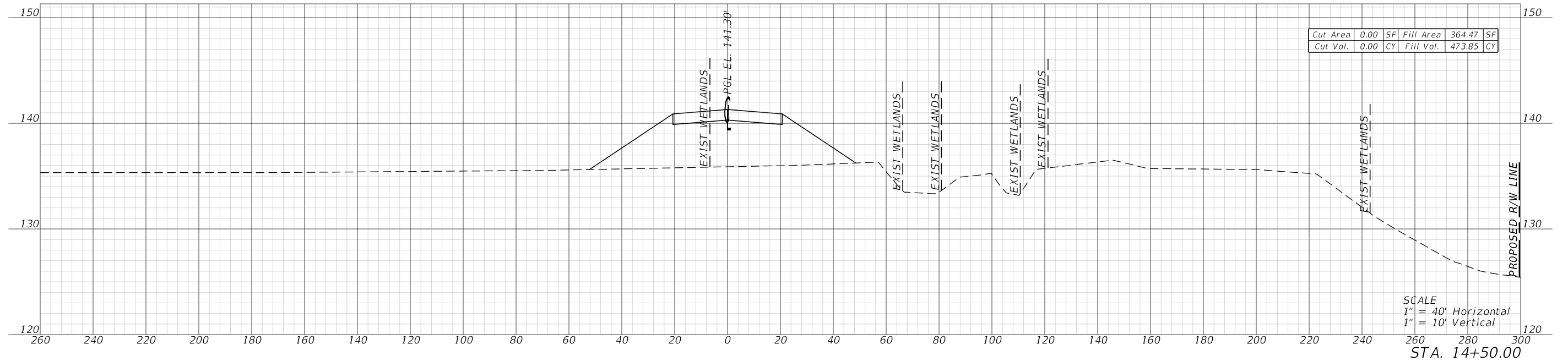
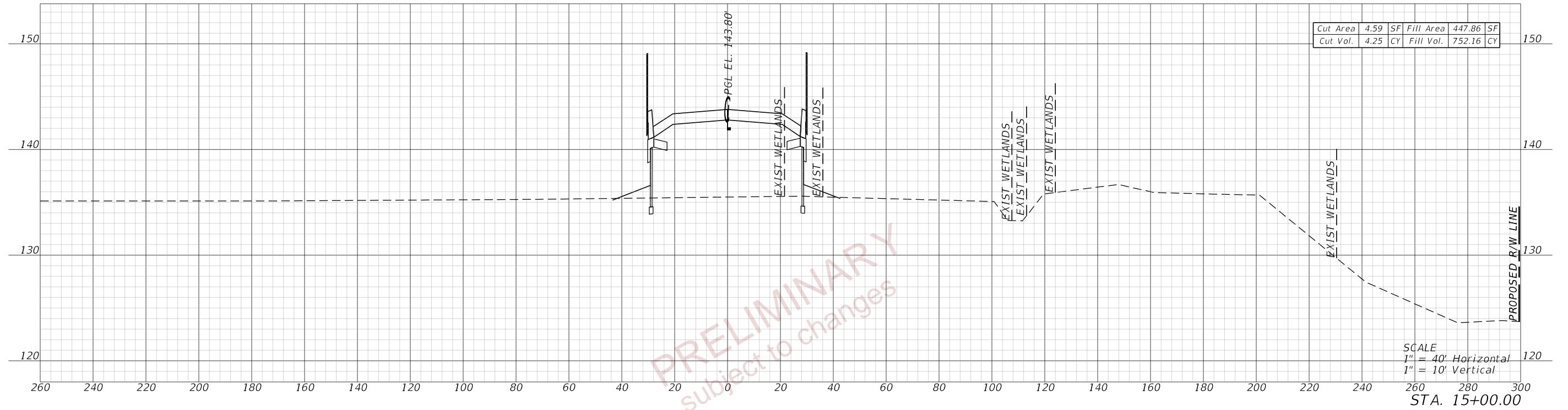
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (07) WILDLIFE CROSSING	SHEET NO. 38
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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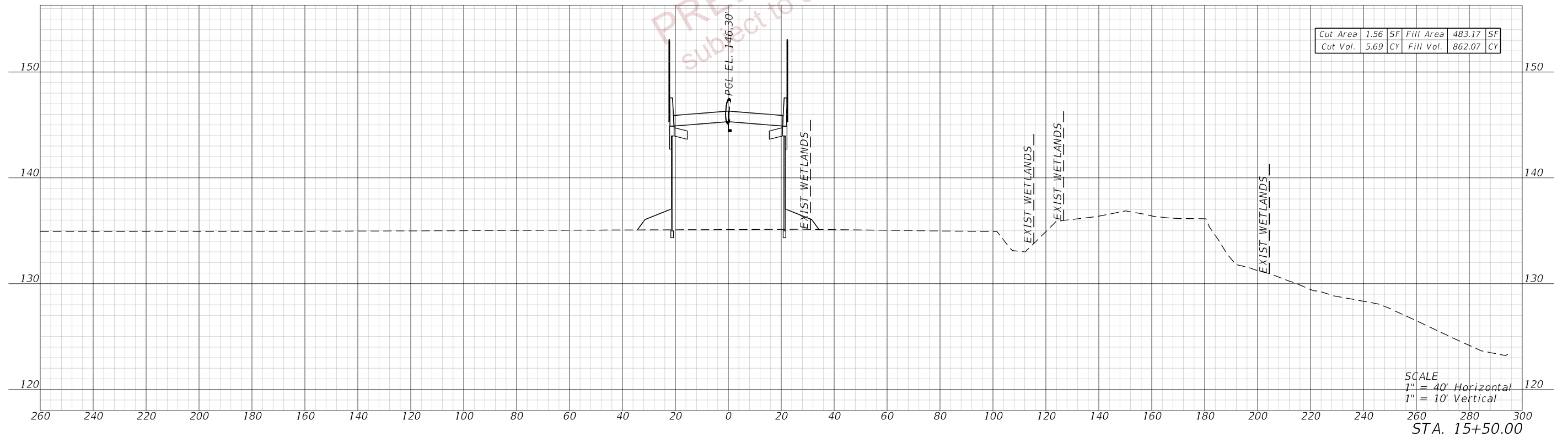
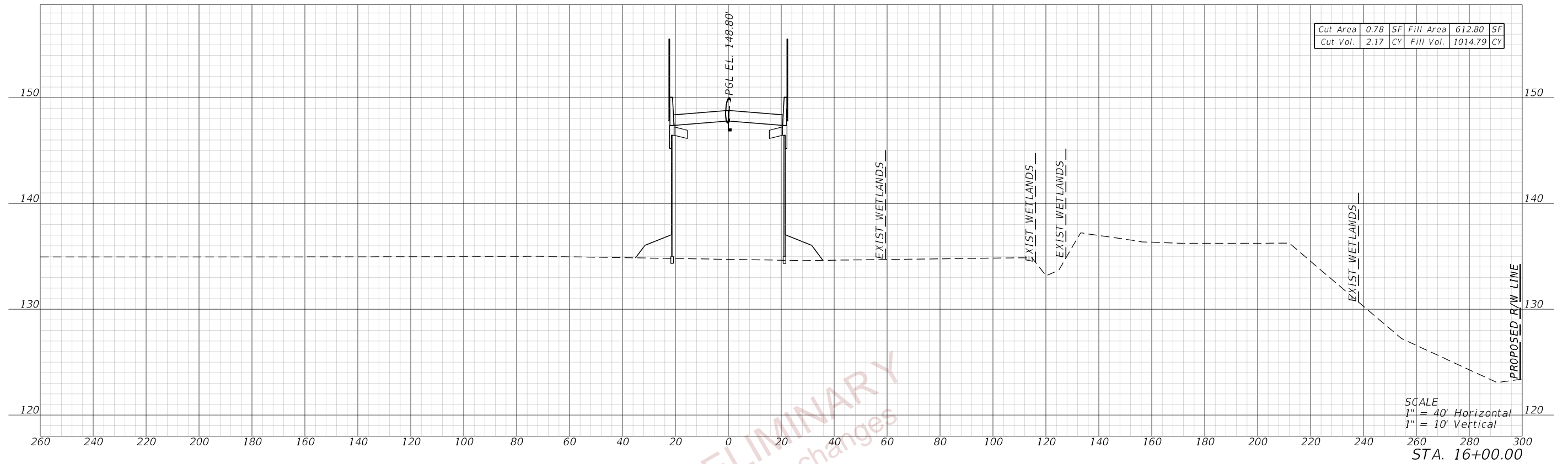


PRELIMINARY
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (08) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		39
						SR 400	POLK	201214-8-52-01		

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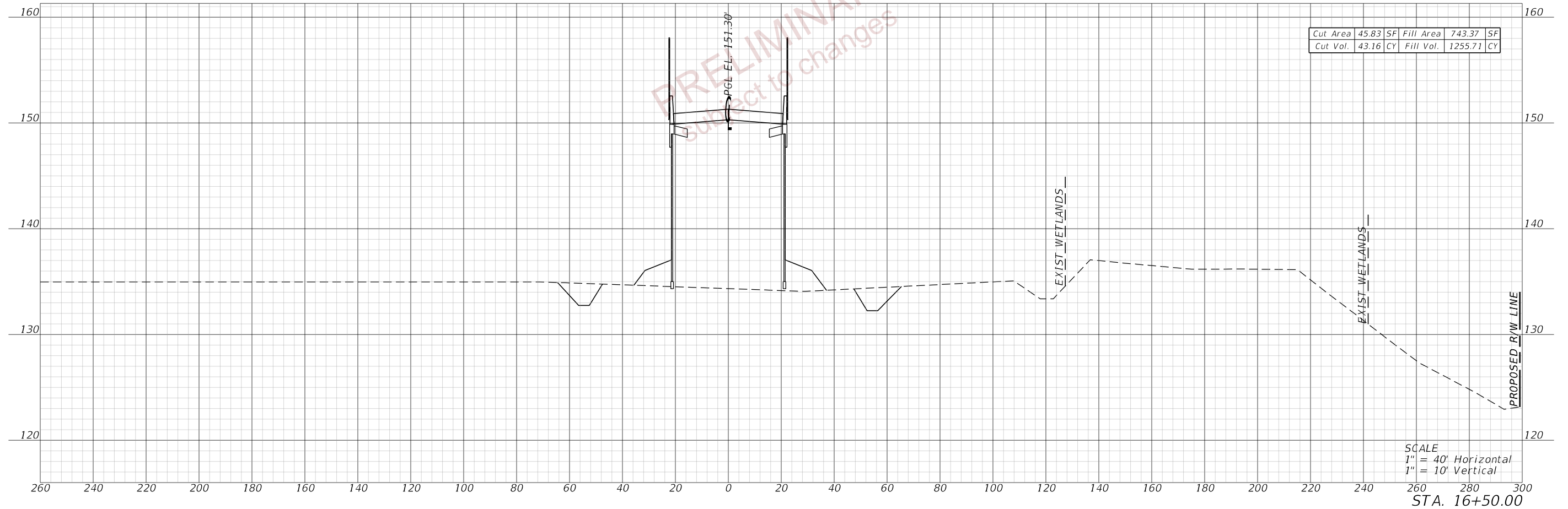


PRELIMINARY
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (09) WILDLIFE CROSSING	SHEET NO. 40
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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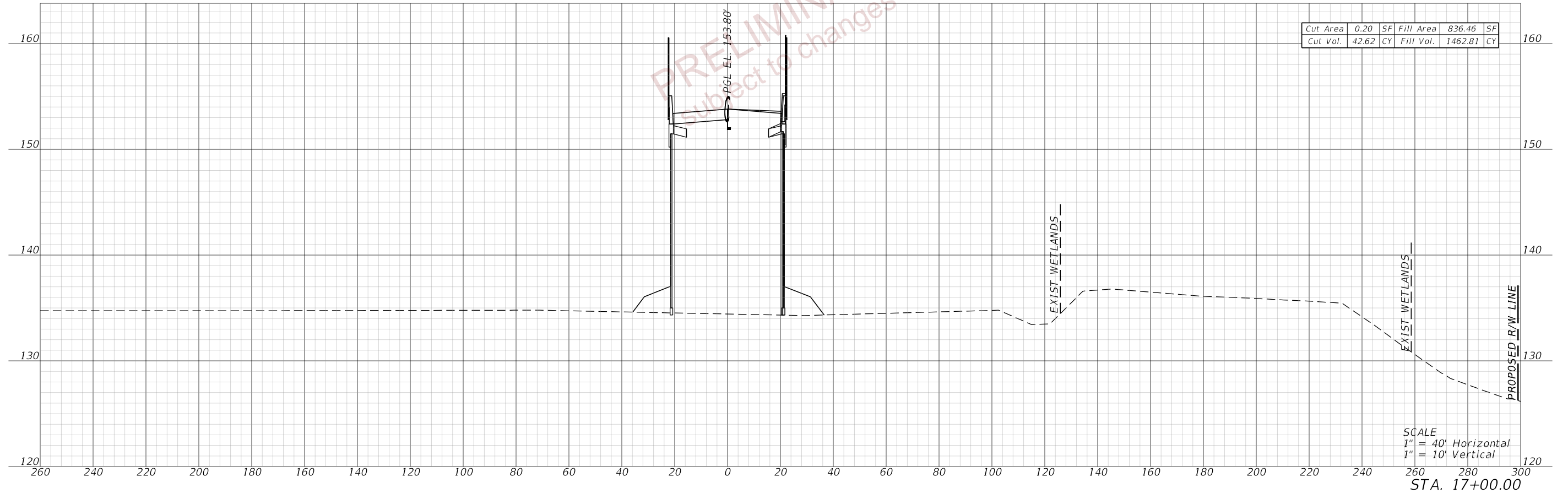


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (10) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		41
								SR 400		POLK

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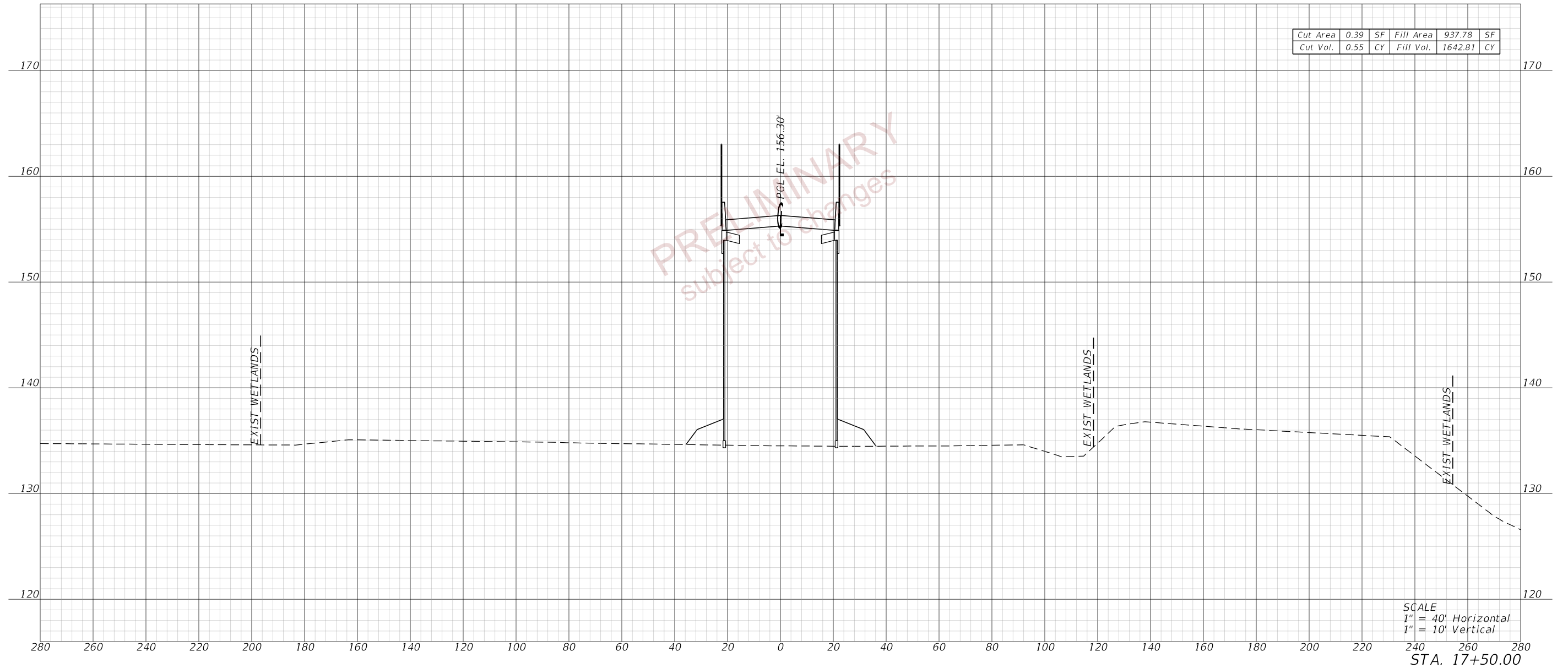


PRELIMINARY
 Subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (11) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		42
								SR 400		

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SCALE
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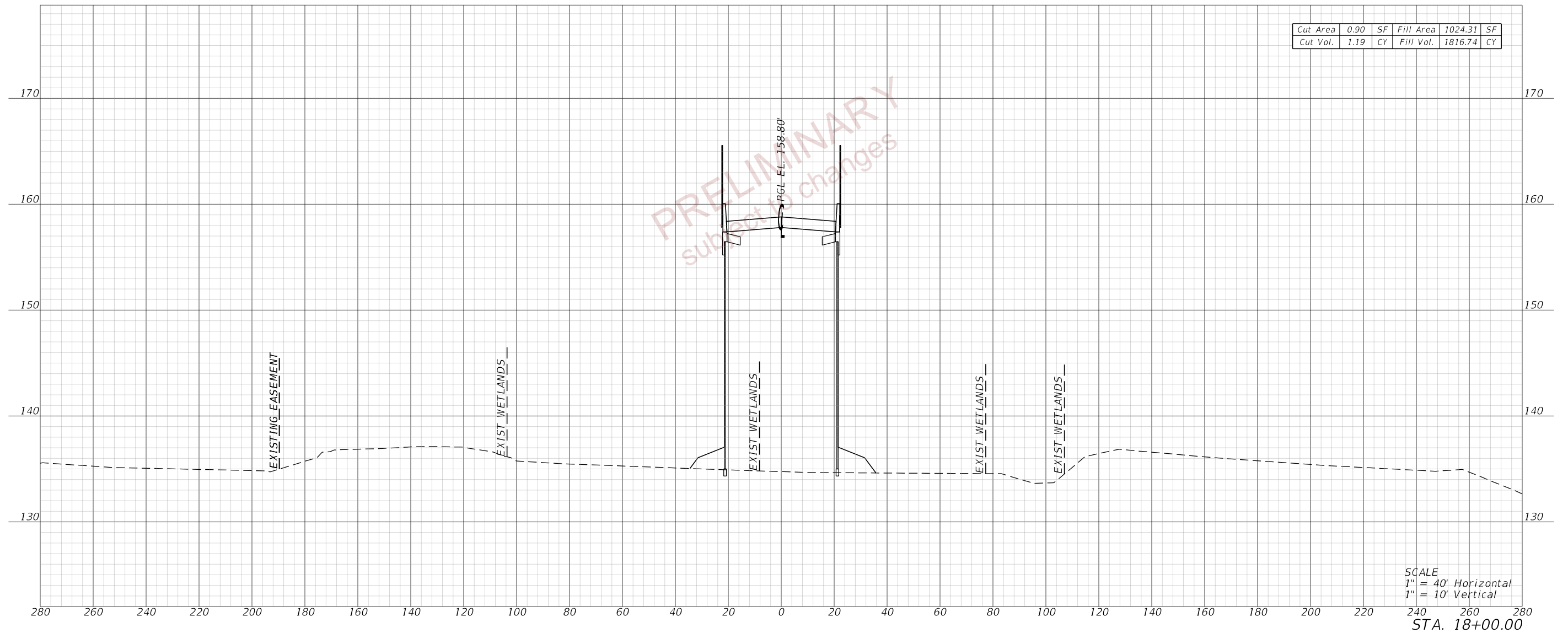
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PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (12) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			SR 400	POLK		201214-8-52-01

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Cut Vol.	1.19	CY	Fill Vol.	1816.74	CY

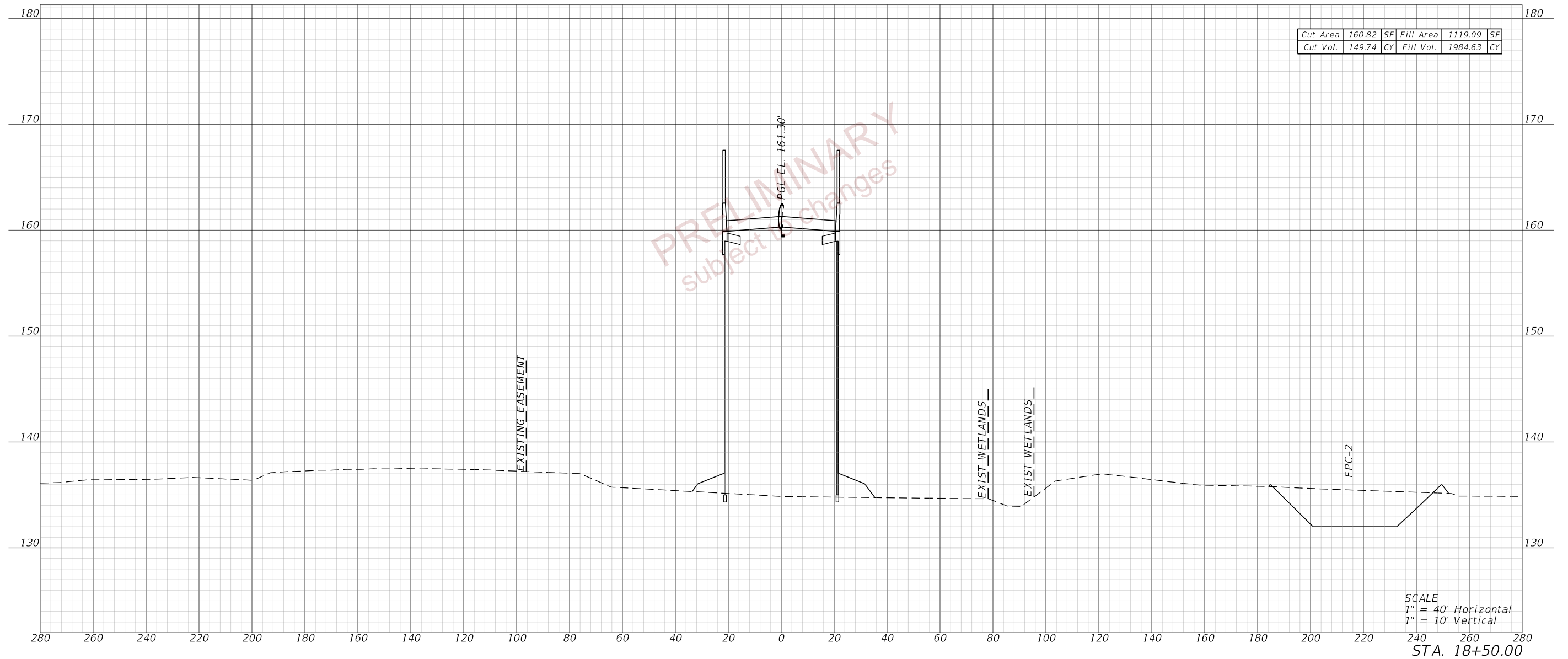
SCALE
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STA. 18+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (13) WILDLIFE CROSSING	SHEET NO. 44
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		SR 400	POLK	201214-8-52-01		

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10/5/2022 8:28:52 AM JBLOUNT
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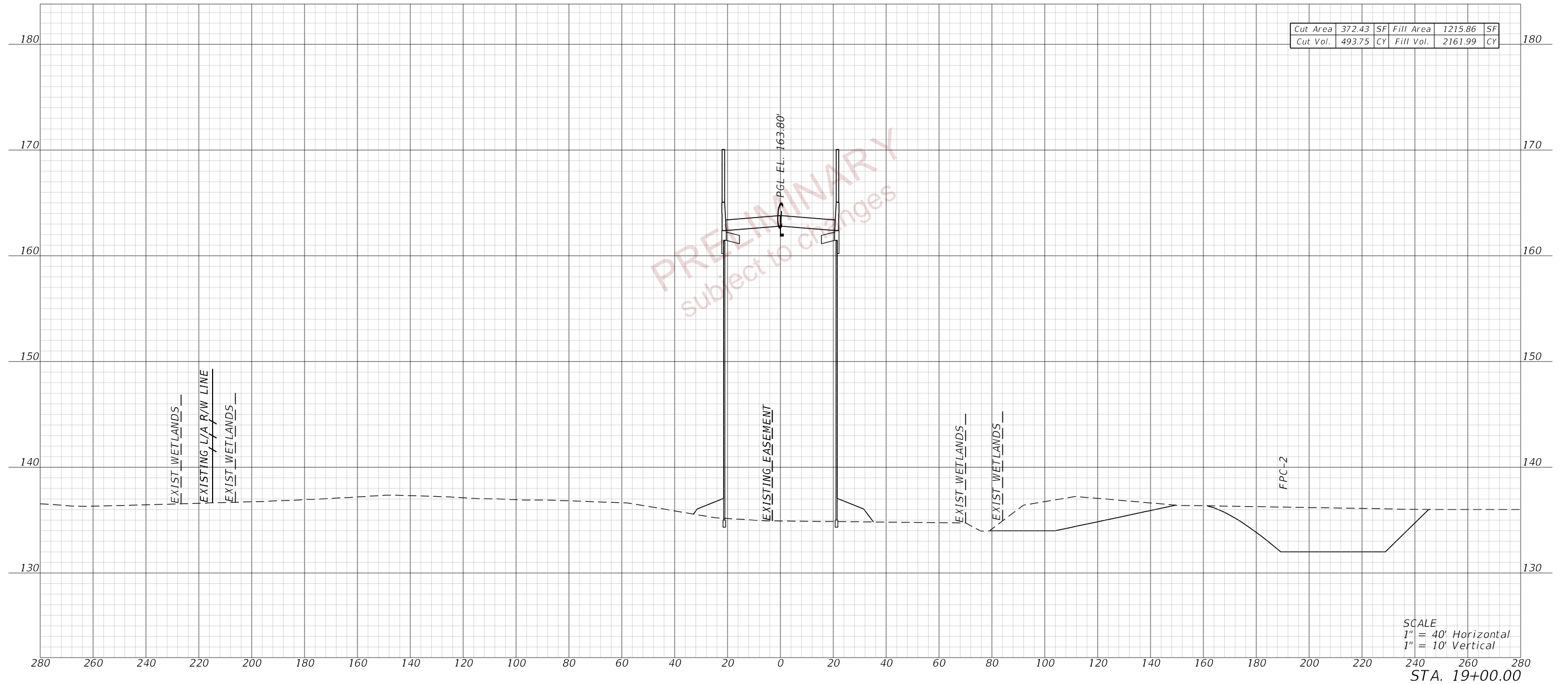


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (14) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		45

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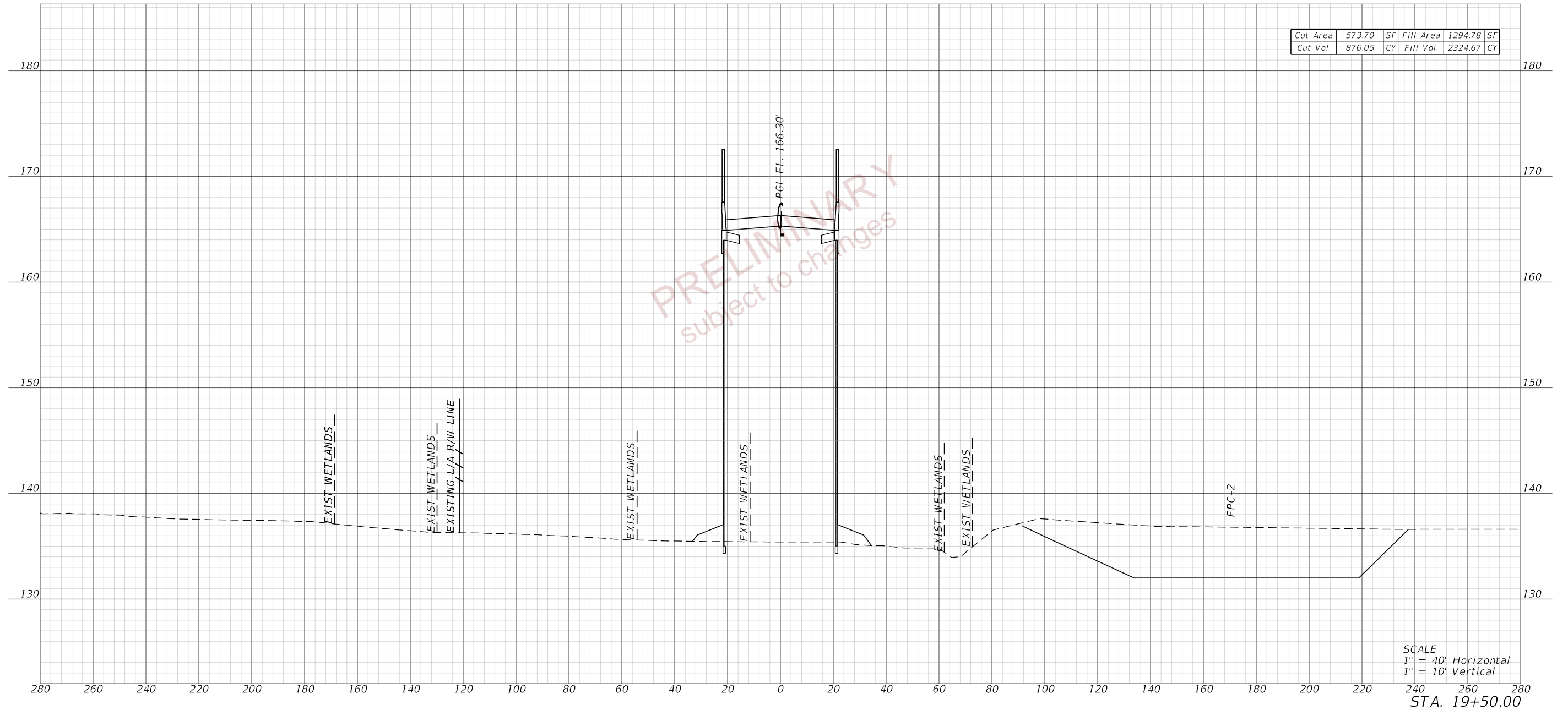


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (15) WILDLIFE CROSSING	SHEET NO. 46
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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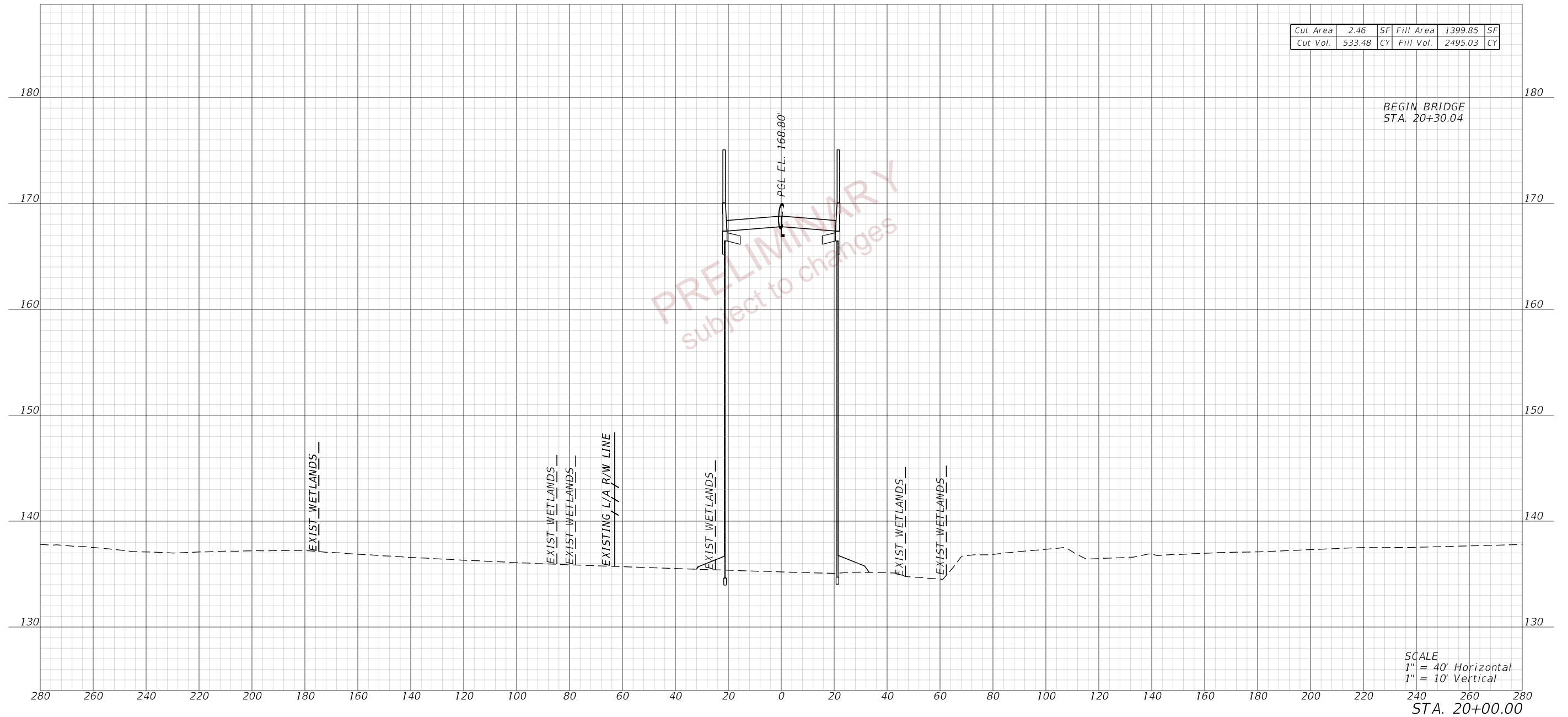


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (16) WILDLIFE CROSSING	SHEET NO. 47
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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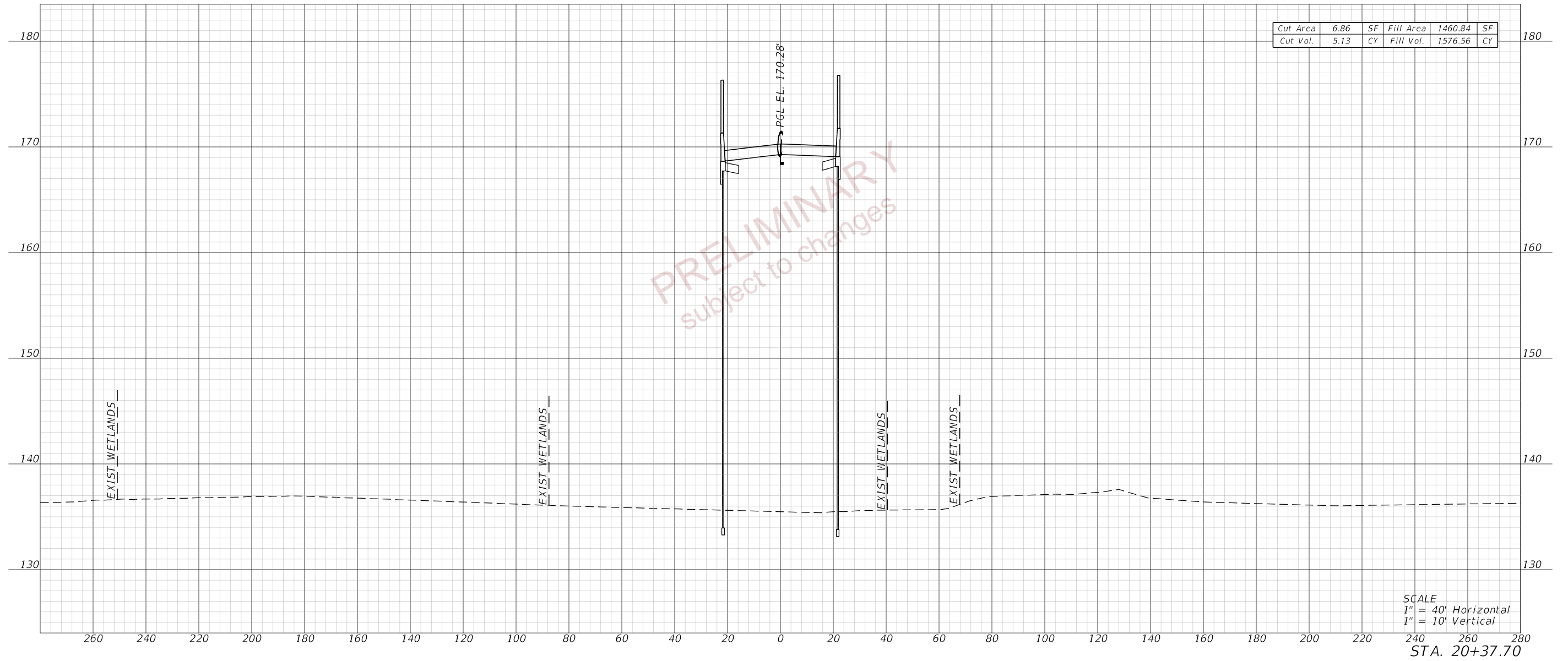


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (17) WILDLIFE CROSSING	SHEET NO. 48
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
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 LICENSE NUMBER 68318
 H. W. LOCHNER
 4350 W. CYPRESS STREET, SUITE 800
 TAMPA, FLORIDA 33607

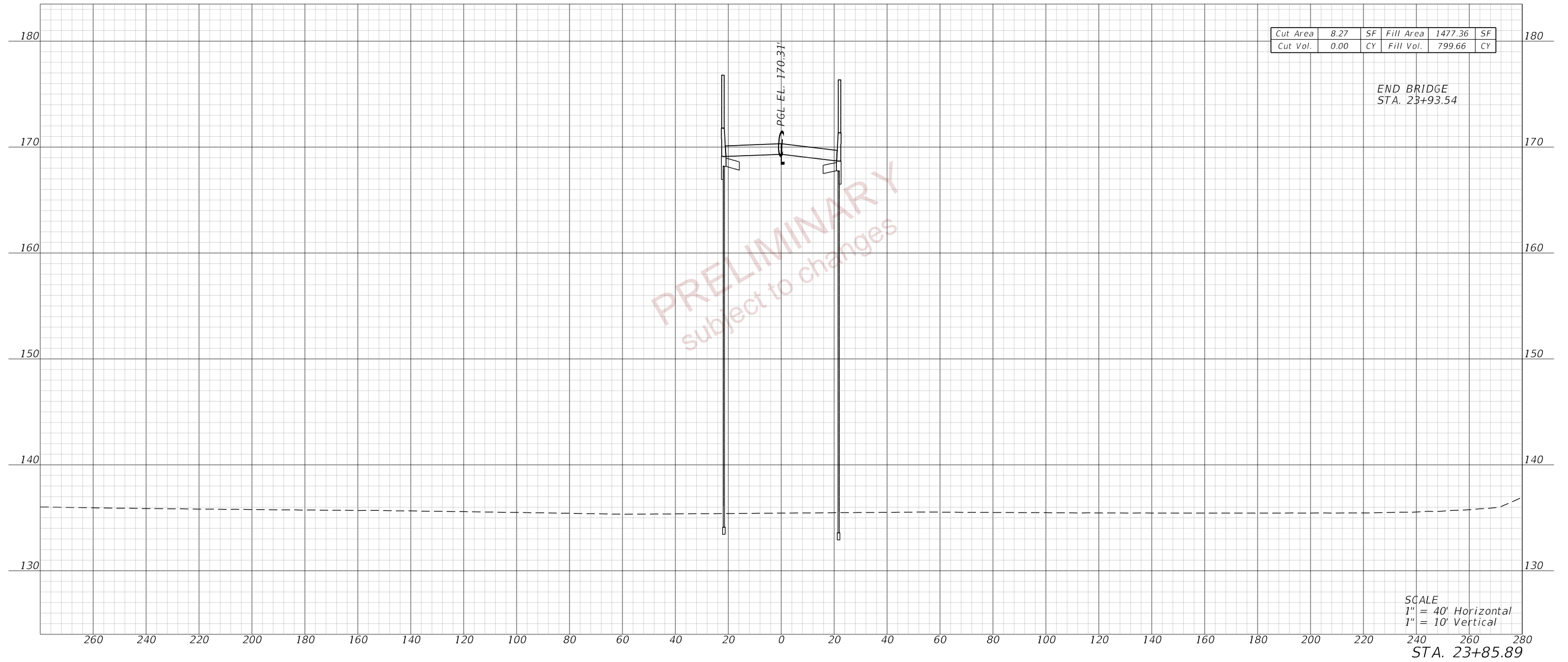
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	POLK	201214-8-52-01

**CROSS SECTIONS (18)
 WILDLIFE CROSSING**

SHEET NO.
49

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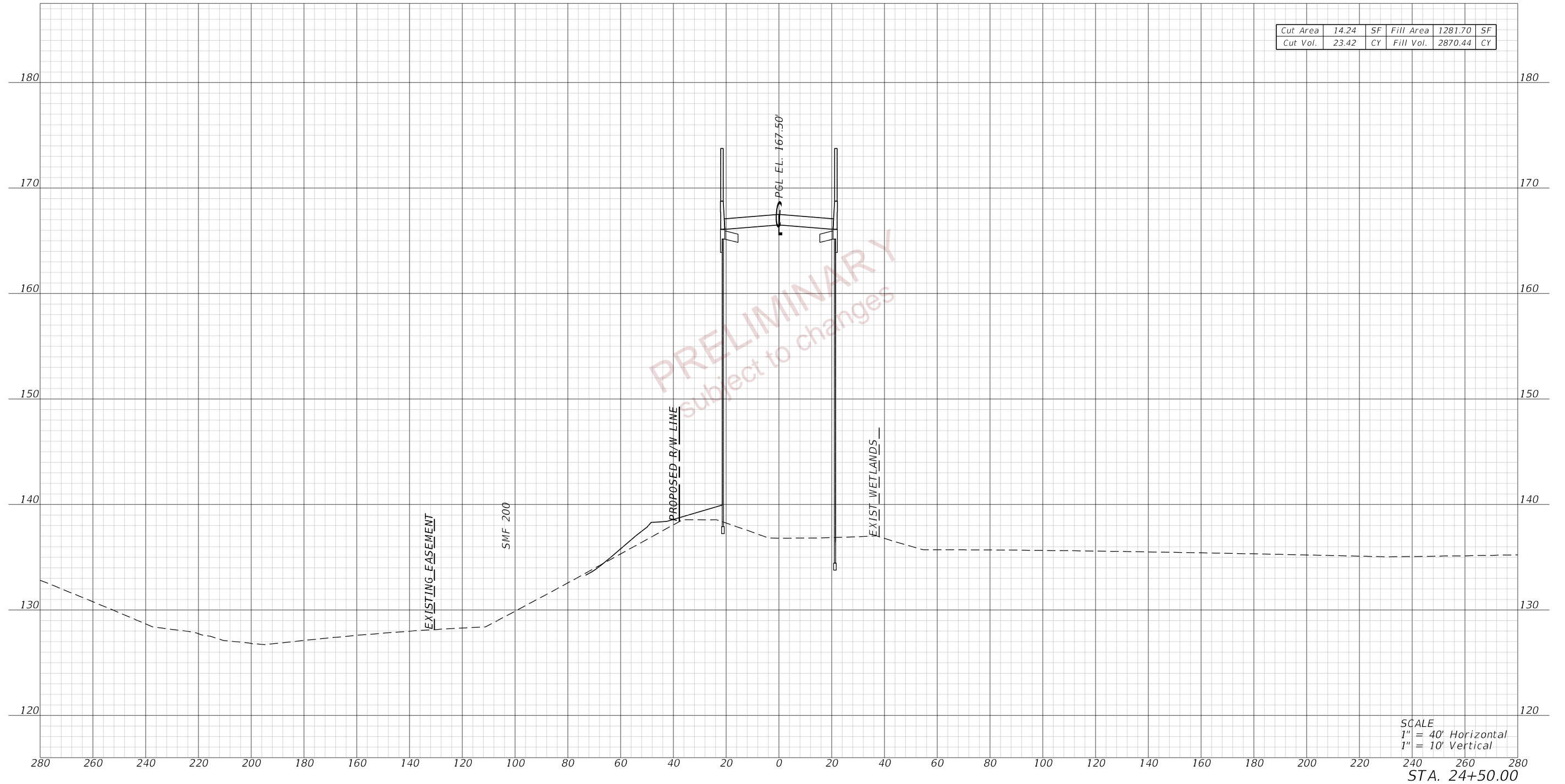


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (19) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			SR 400	POLK		201214-8-52-01

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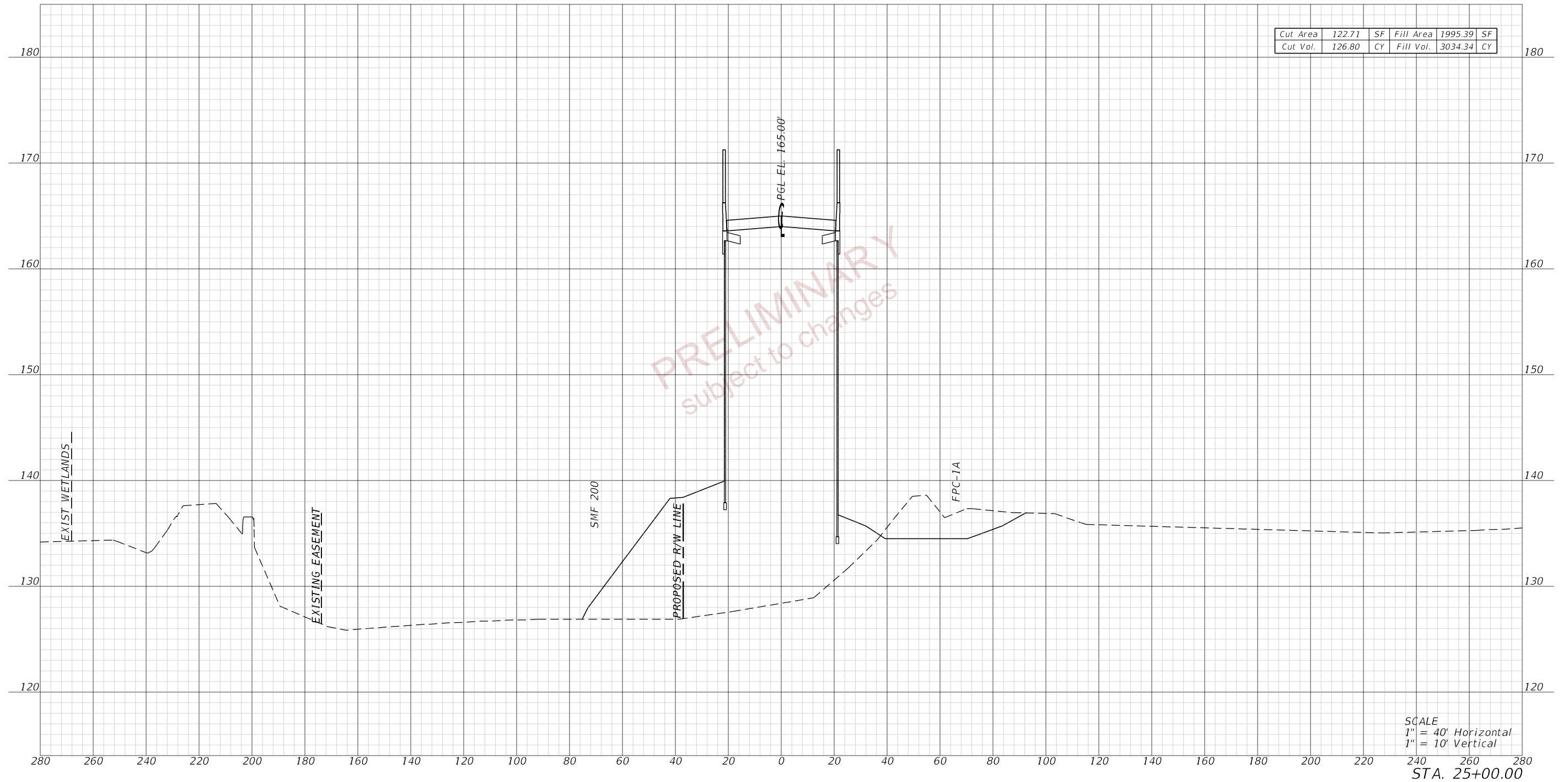


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (20) WILDLIFE CROSSING	SHEET NO. 51
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		SR 400	POLK	201214-8-52-01		

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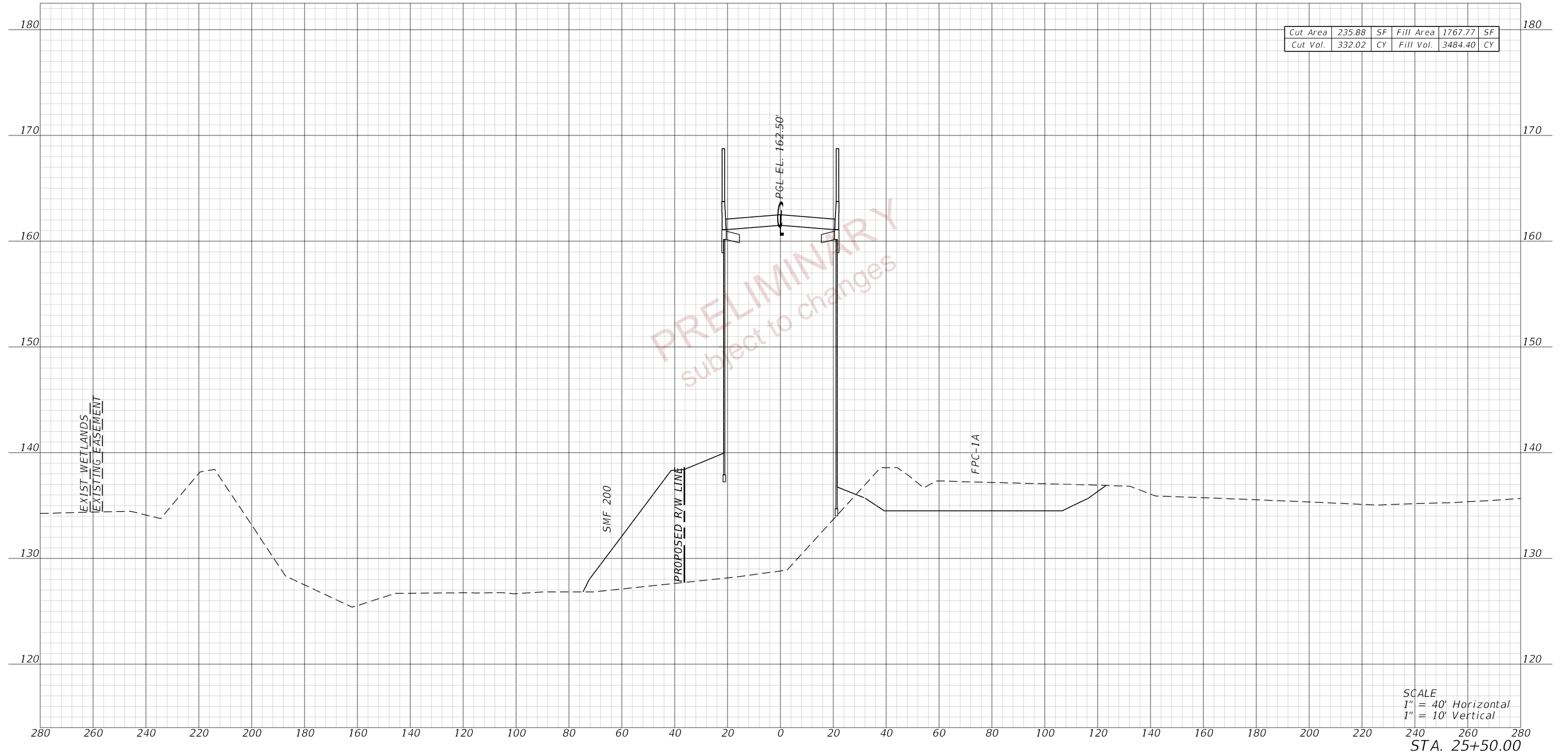
SCALE
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 1" = 10' Vertical

STA. 25+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (21) WILDLIFE CROSSING	SHEET NO. 52
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		SR 400	POLK	201214-8-52-01		

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10/5/2022 8:28:59 AM JBLOUNT
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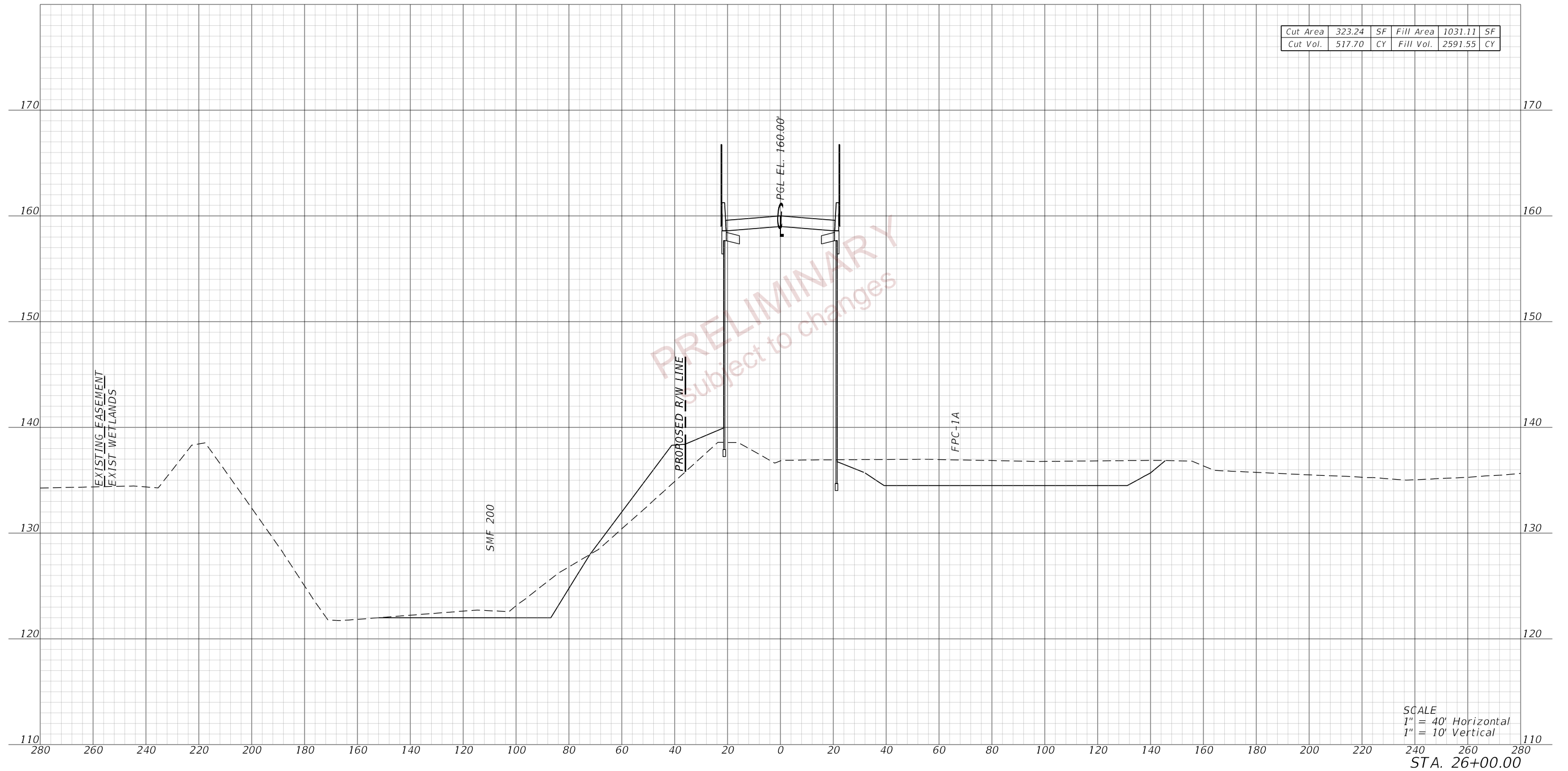
SCALE
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 1" = 10' Vertical
 STA. 25+50.00

PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (22) WILDLIFE CROSSING	SHEET NO. 53
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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10/5/2022 8:29:00 AM JBLOUNT
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Cut Area	323.24	SF	Fill Area	1031.11	SF
Cut Vol.	517.70	CY	Fill Vol.	2591.55	CY

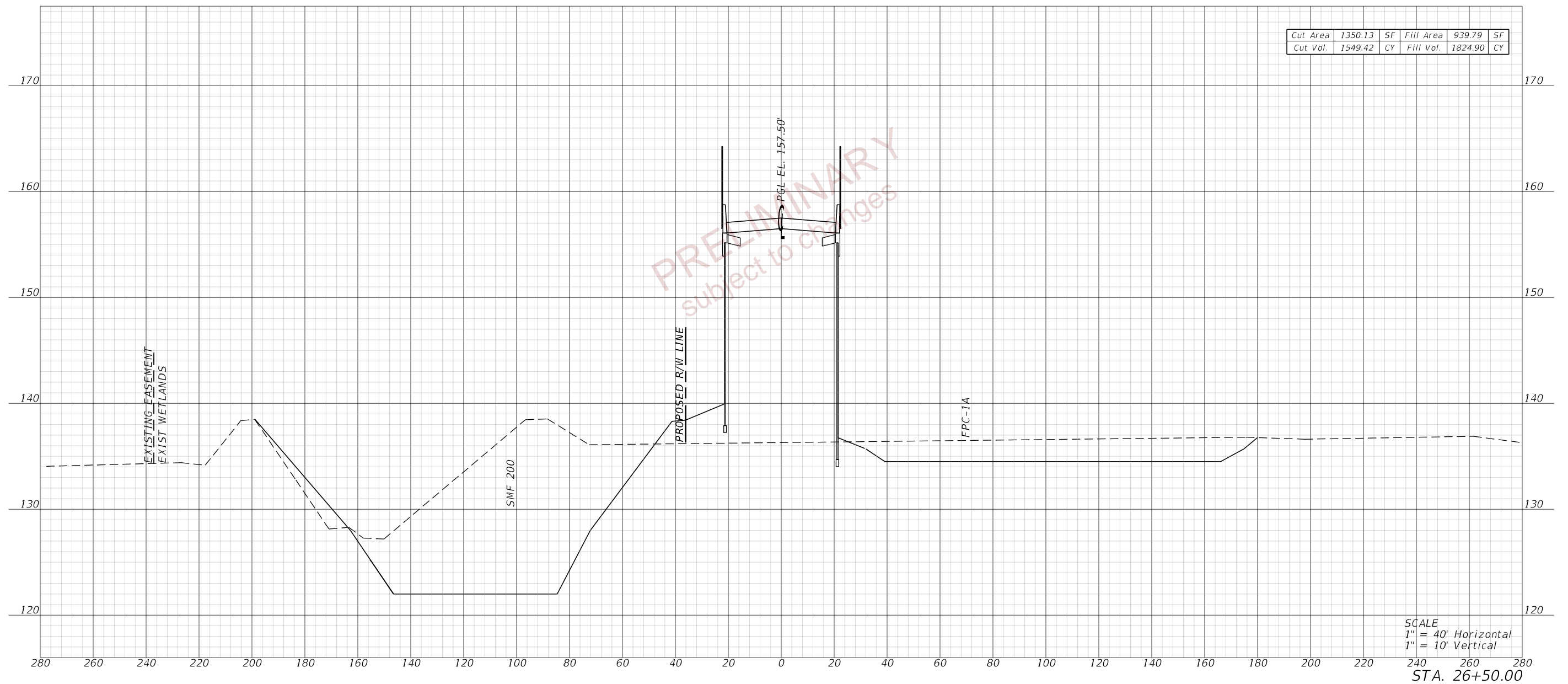
SCALE
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 1" = 10' Vertical

STA. 26+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (23) WILDLIFE CROSSING	SHEET NO. 54
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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10/5/2022 8:29:01 AM JBLOUNT
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Cut Area	1350.13	SF	Fill Area	939.79	SF
Cut Vol.	1549.42	CY	Fill Vol.	1824.90	CY

SCALE
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 1" = 10' Vertical

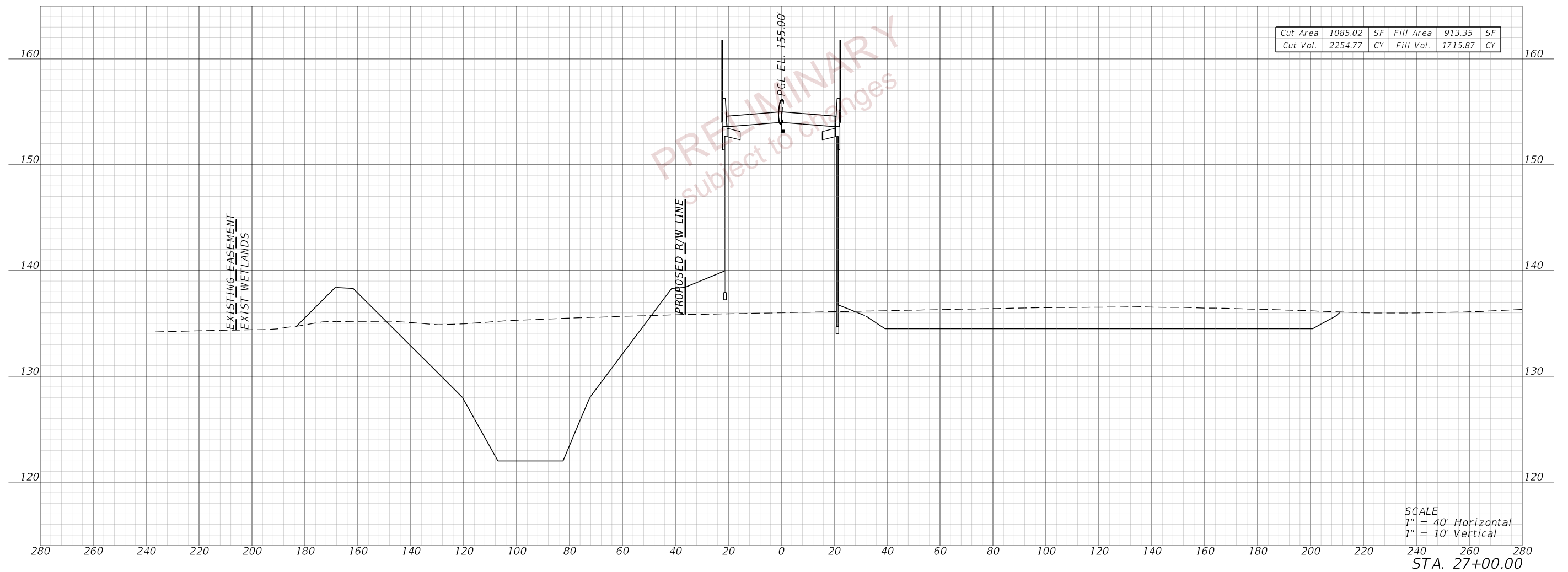
STA. 26+50.00

PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (24) WILDLIFE CROSSING	SHEET NO. 55
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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10/5/2022 8:29:02 AM JBLOUNT
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Cut Area	1085.02	SF	Fill Area	913.35	SF
Cut Vol.	2254.77	CY	Fill Vol.	1715.87	CY

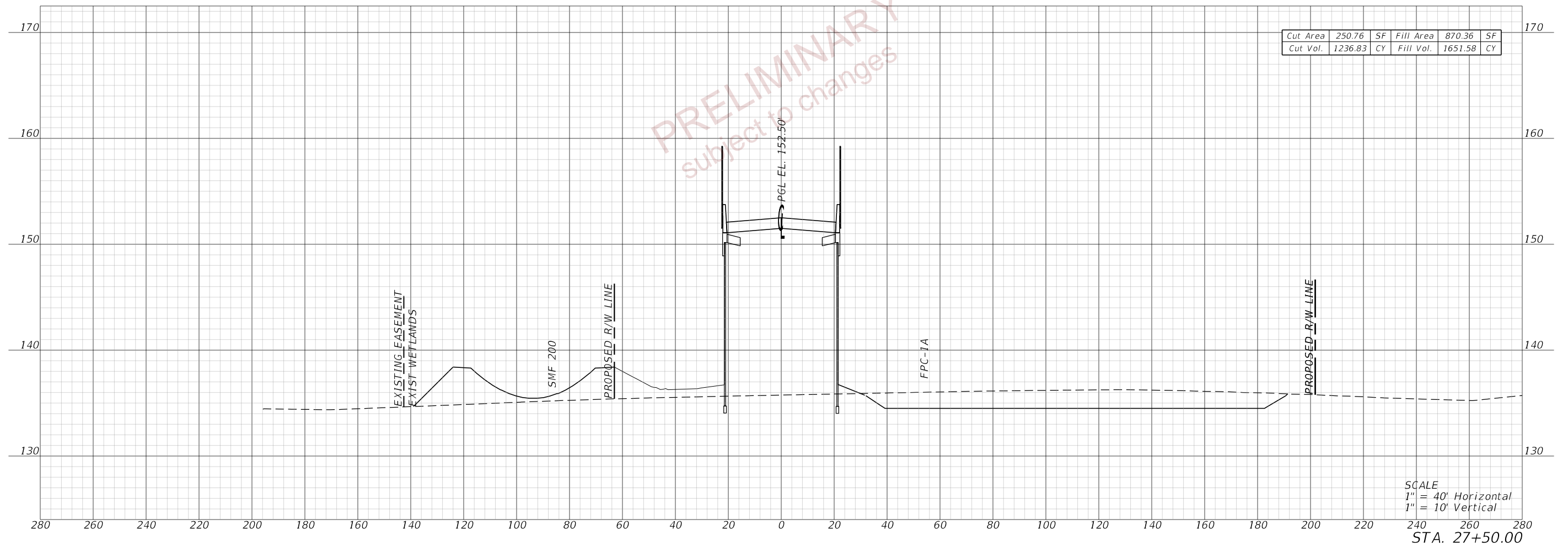
SCALE
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 1" = 10' Vertical

STA. 27+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (25) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				SR 400	POLK	201214-8-52-01				

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10/5/2022 8:29:03 AM JBLOUNT
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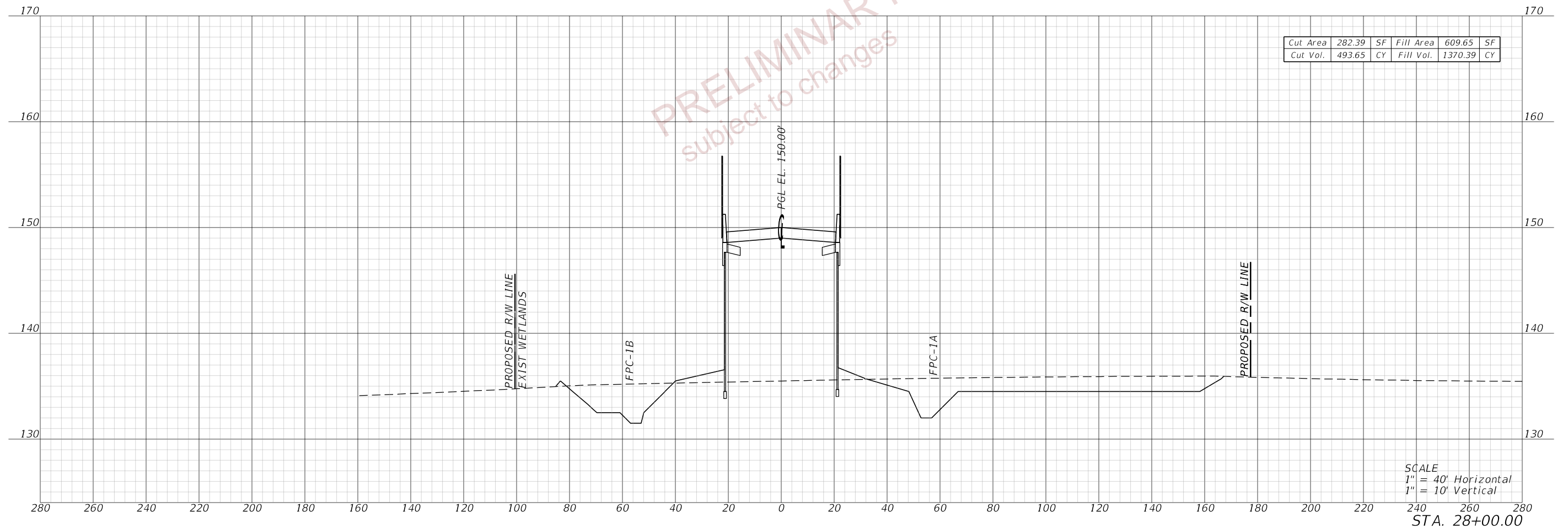


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (26) WILDLIFE CROSSING	SHEET NO. 57
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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10/5/2022 8:29:04 AM JBLDUNT
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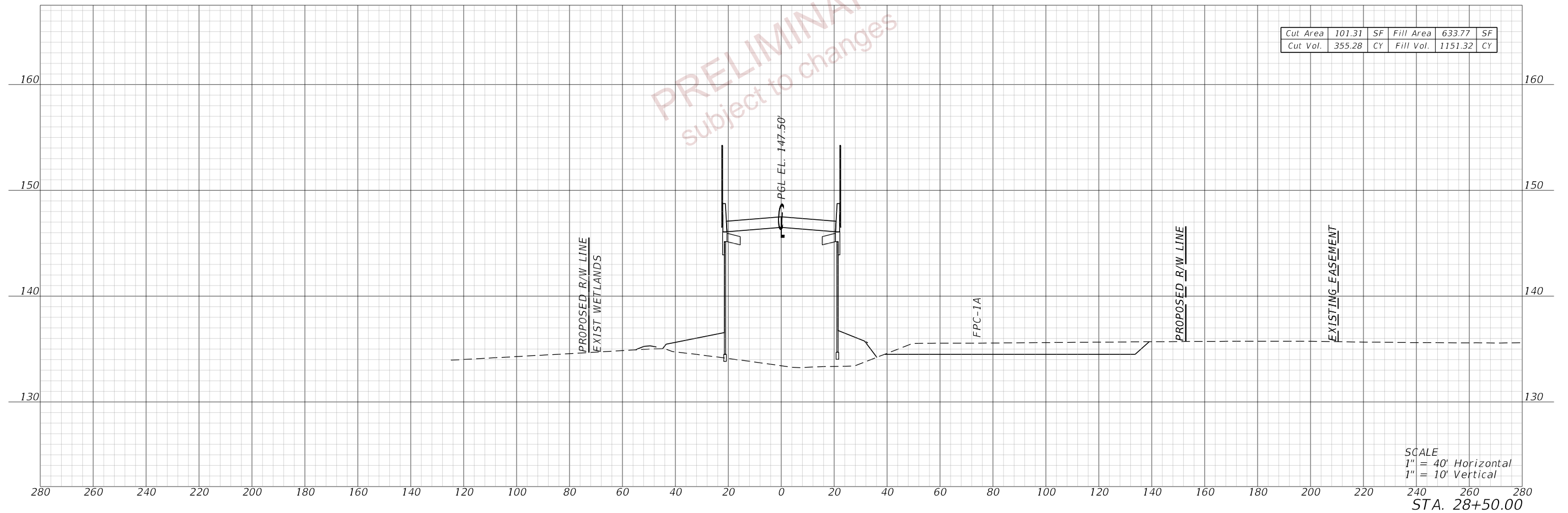


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (27) WILDLIFE CROSSING	SHEET NO. 58
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 400	POLK	201214-8-52-01		

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10/5/2022 8:29:05 AM JBLOUNT
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 subject to changes

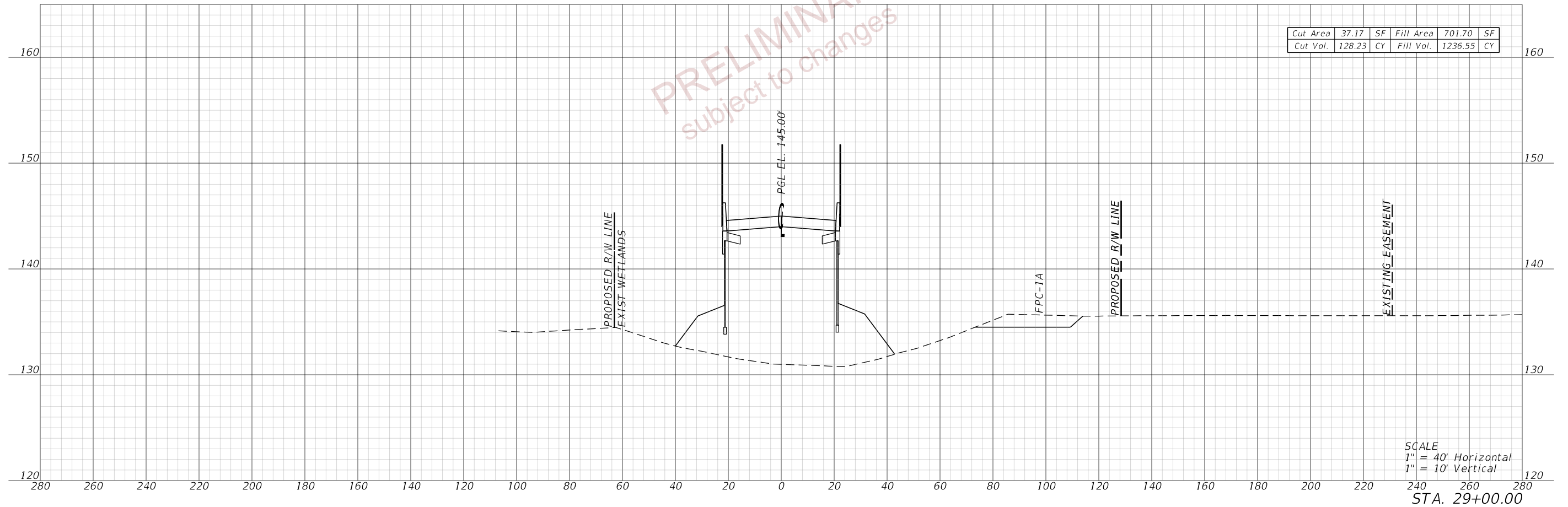
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STA. 28+50.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (28) WILDLIFE CROSSING	SHEET NO. 59
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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10/5/2022 8:29:06 AM JBLOUNT
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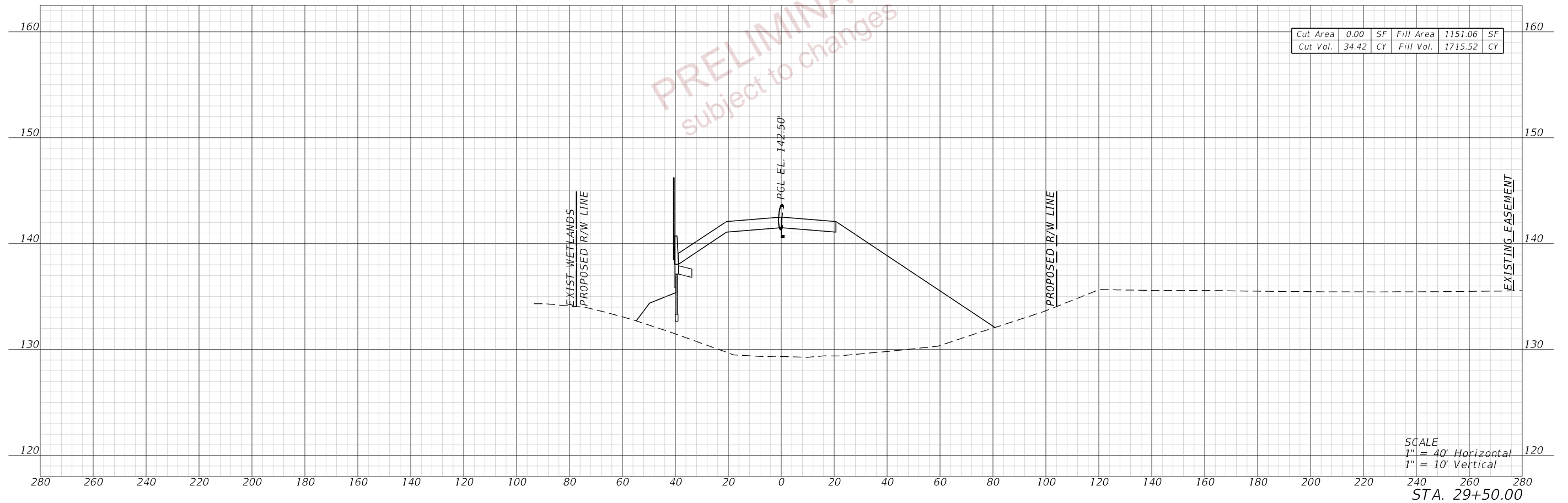


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (29) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		60
						SR 400	POLK	201214-8-52-01		

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10/5/2022 8:29:07 AM JBLOUNT
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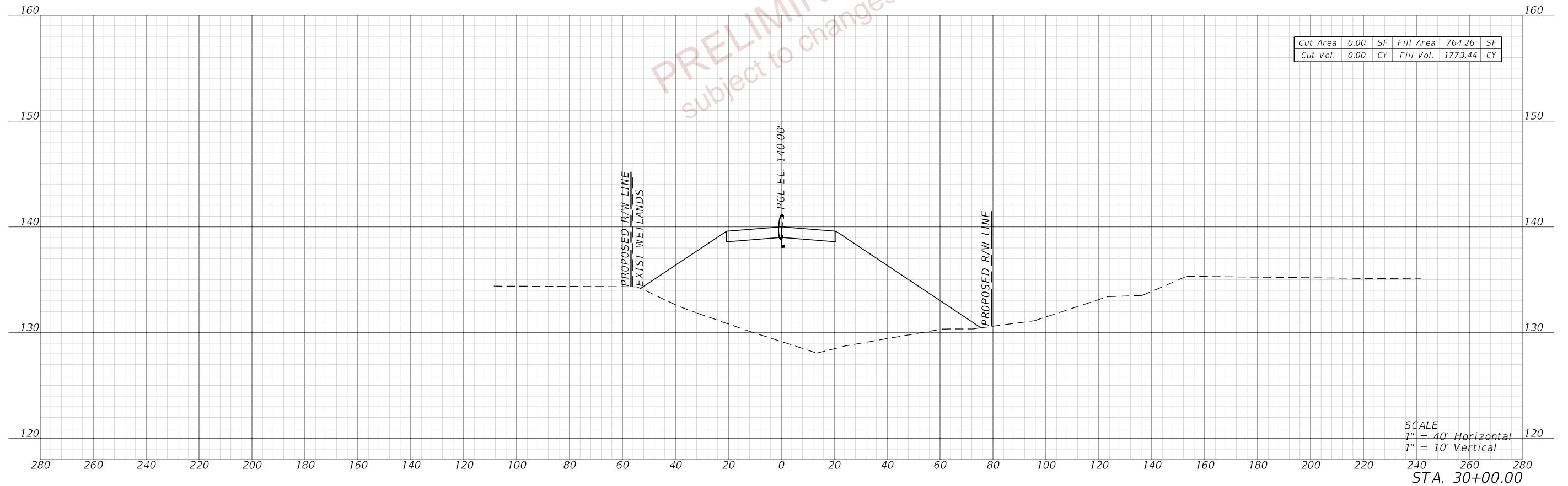
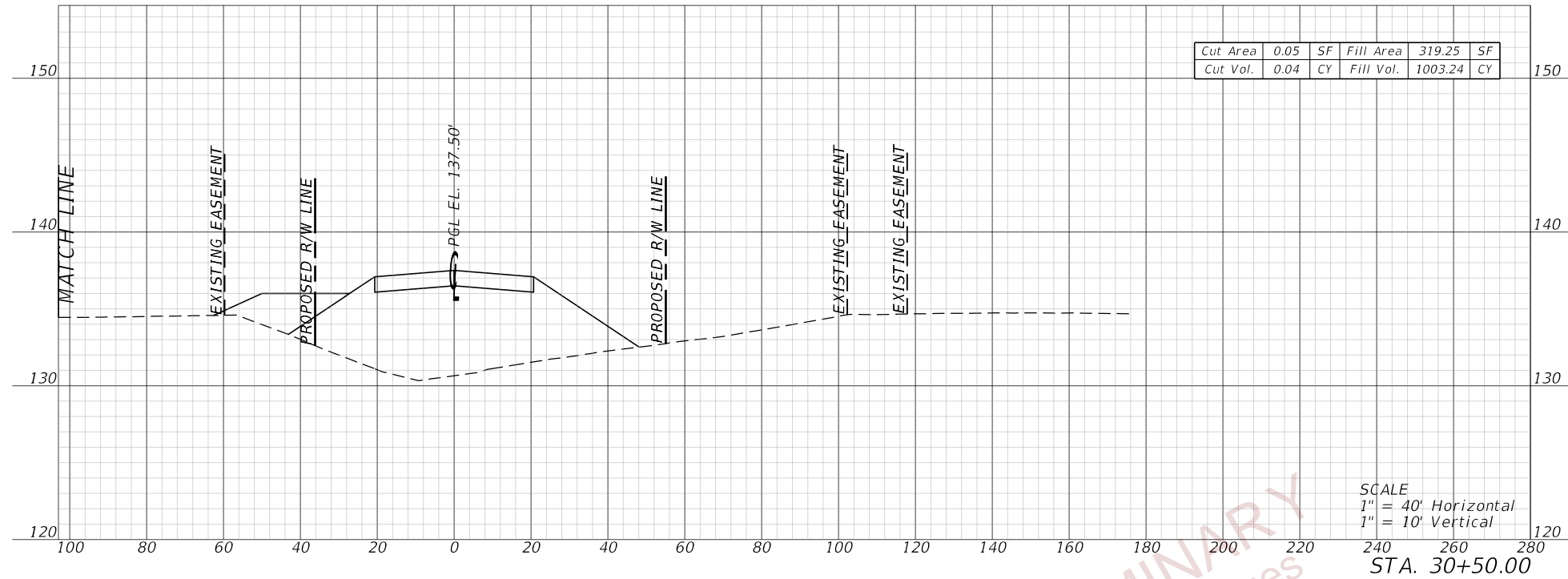
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SCALE
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 1" = 10' Vertical
 STA. 29+50.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (30) WILDLIFE CROSSING	SHEET NO. 61
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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10/5/2022 8:29:08 AM JBLOUNT
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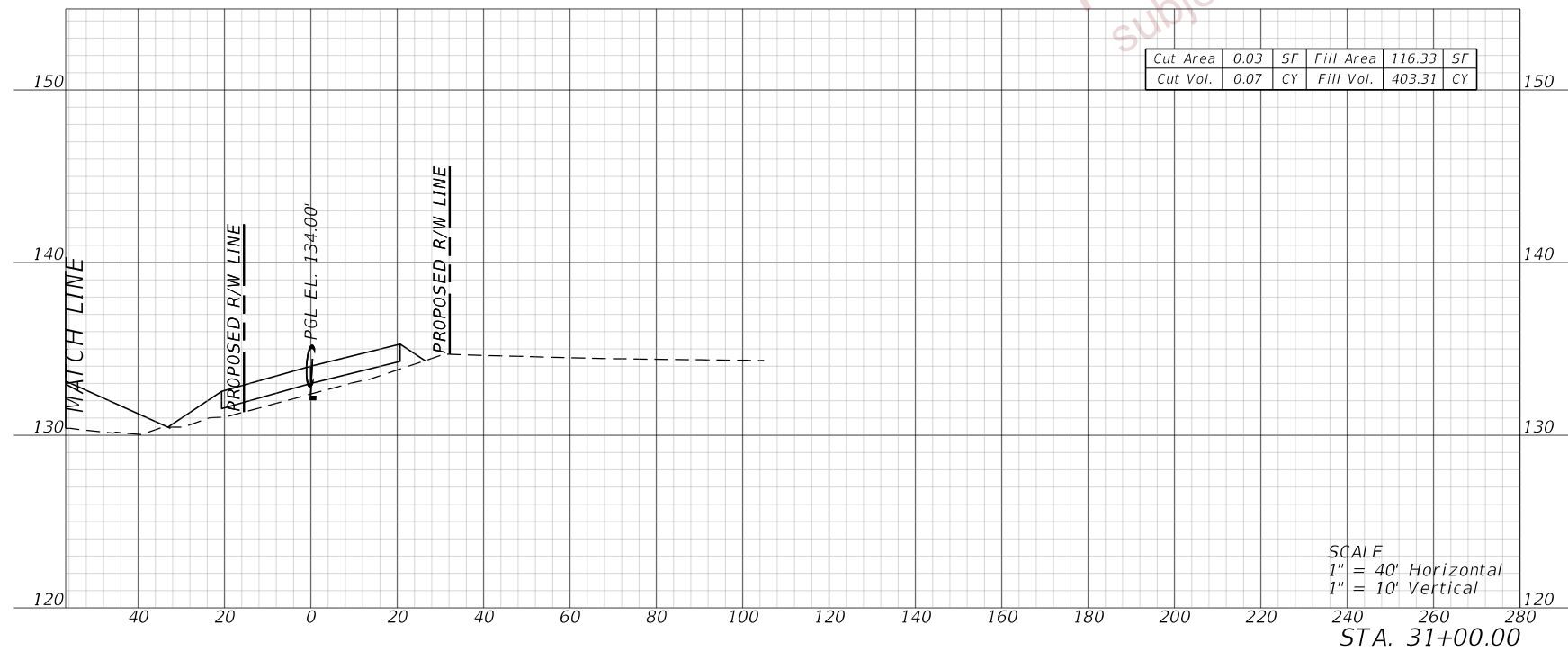
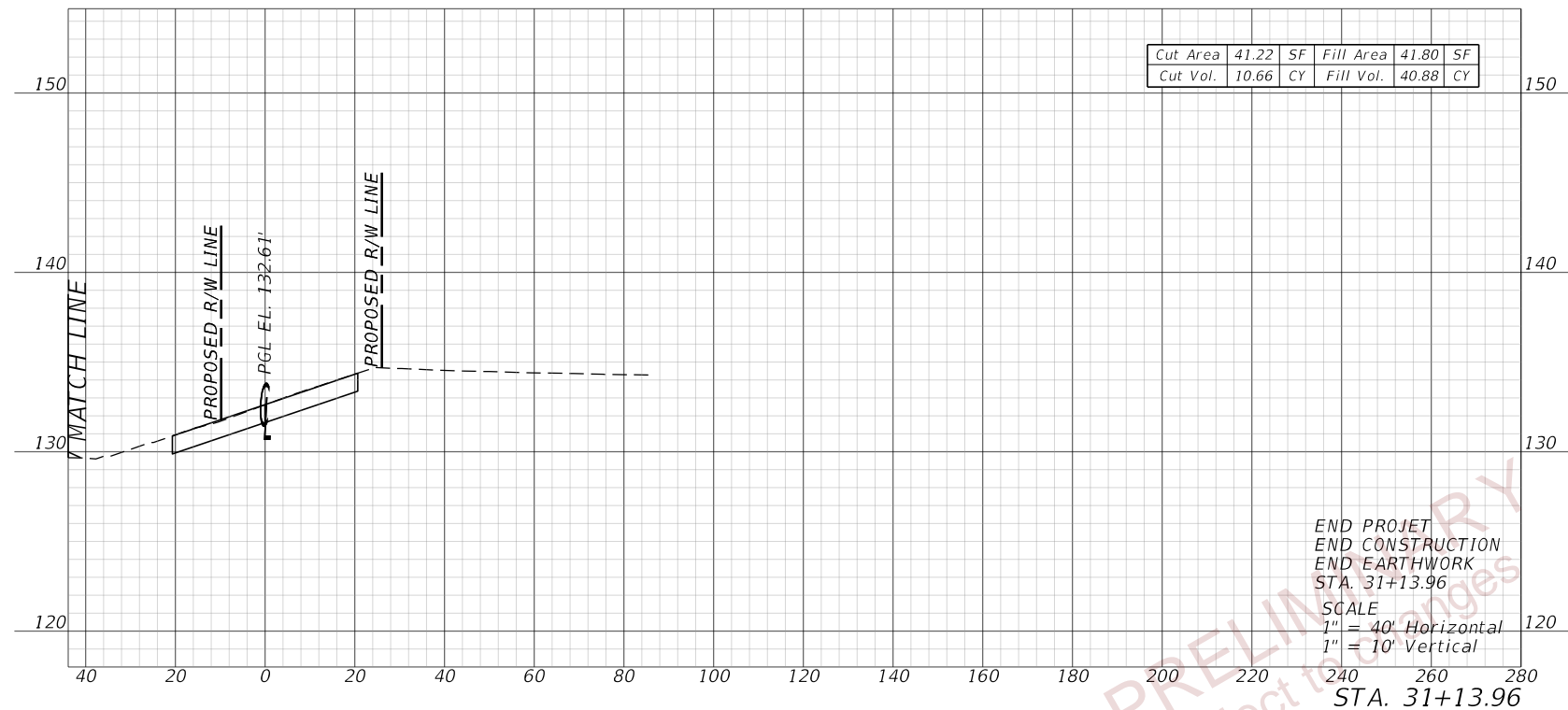


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (31) WILDLIFE CROSSING	SHEET NO. 62
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		SR 400	POLK	201214-8-52-01		

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10/5/2022 8:29:09 AM JBLOUNT
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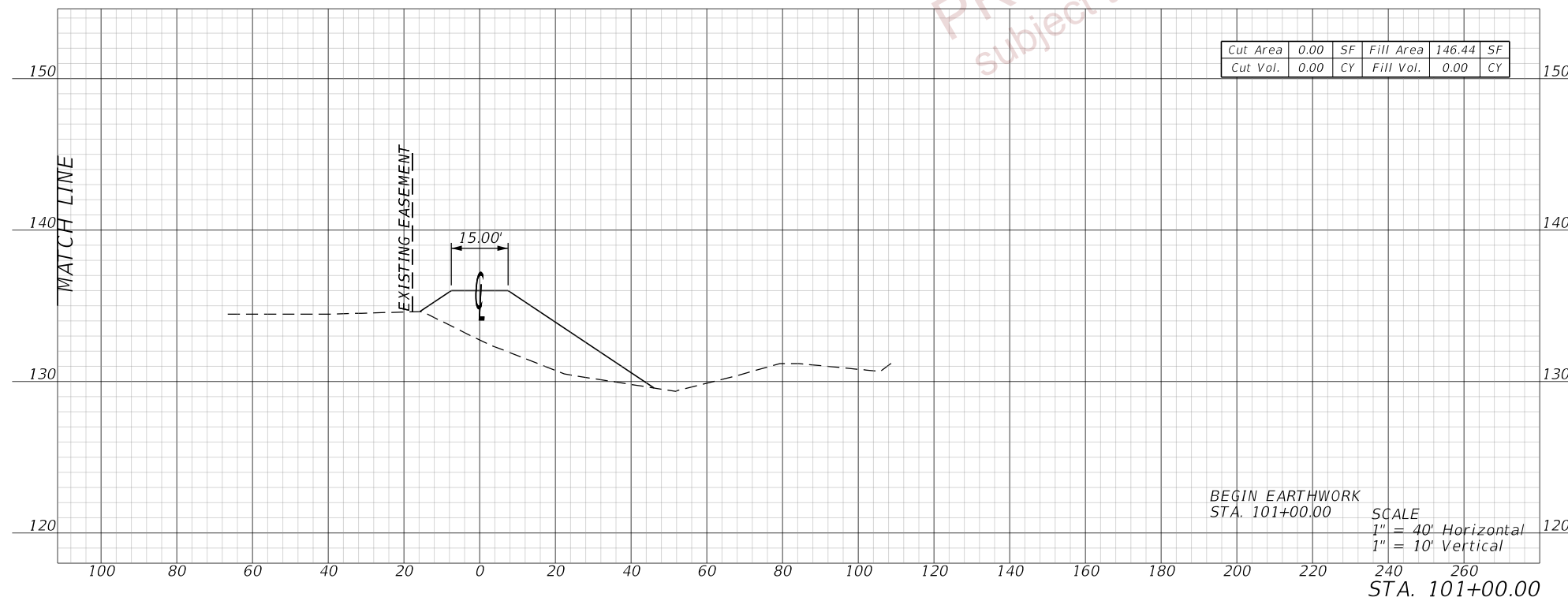
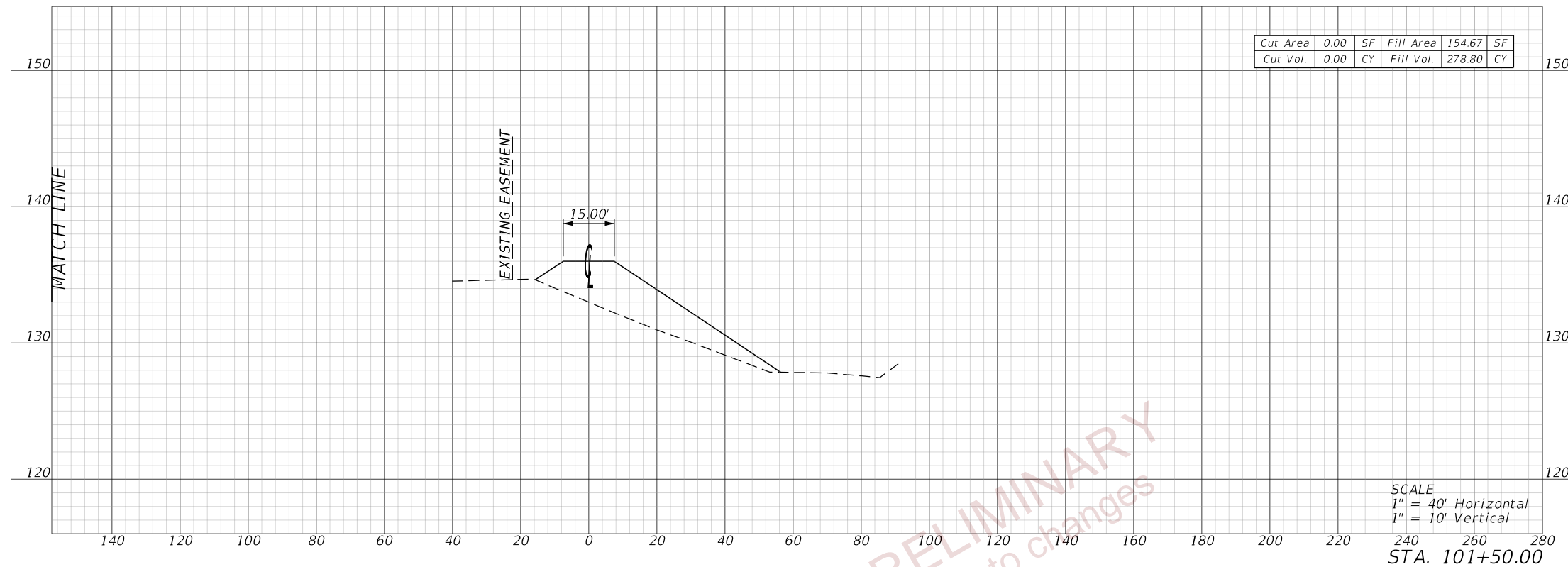


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (32) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		63
						SR 400	POLK	201214-8-52-01		

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12/9/2022 8:09:08 AM JBLOUNT
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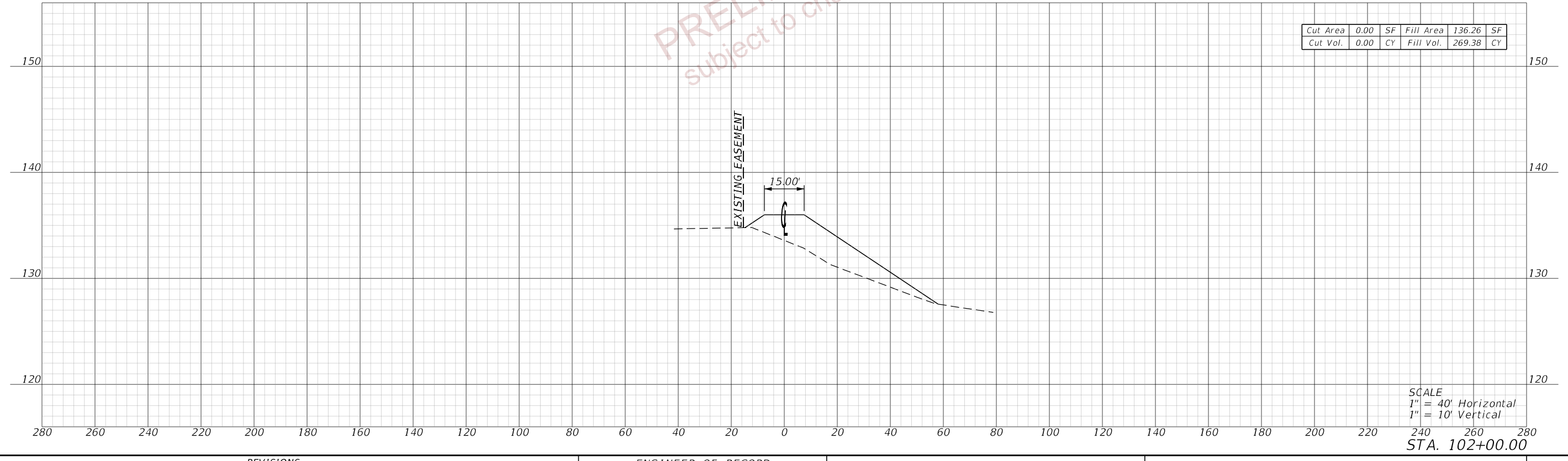


PRELIMINARY
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (33) FLAT PATH	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		64
						SR 400	POLK	201214-8-52-01		

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12/9/2022 8:15:20 AM JBLOUNT
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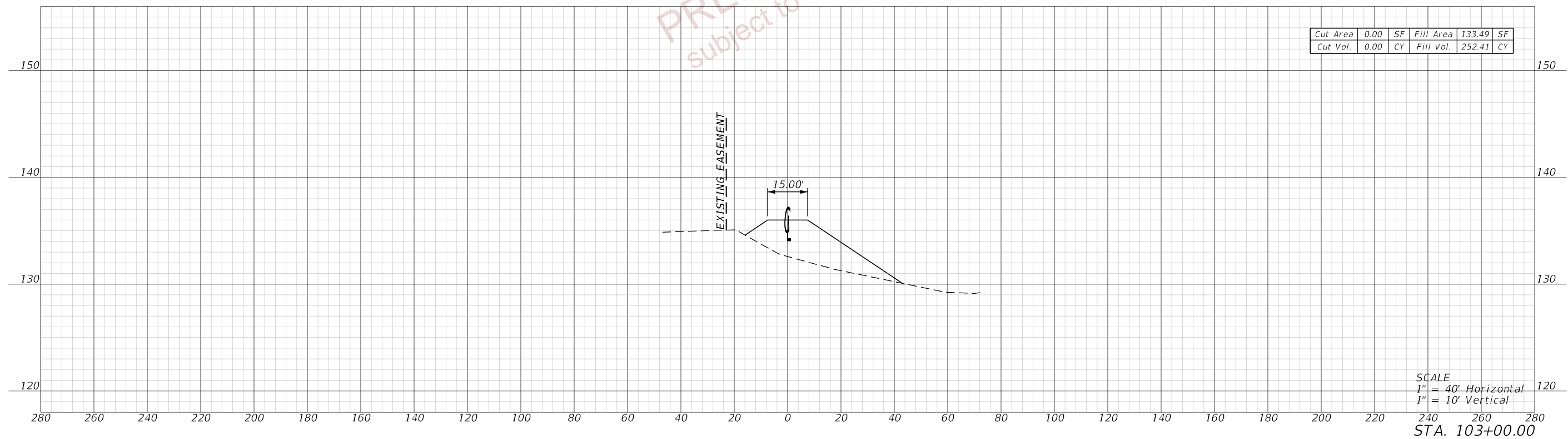
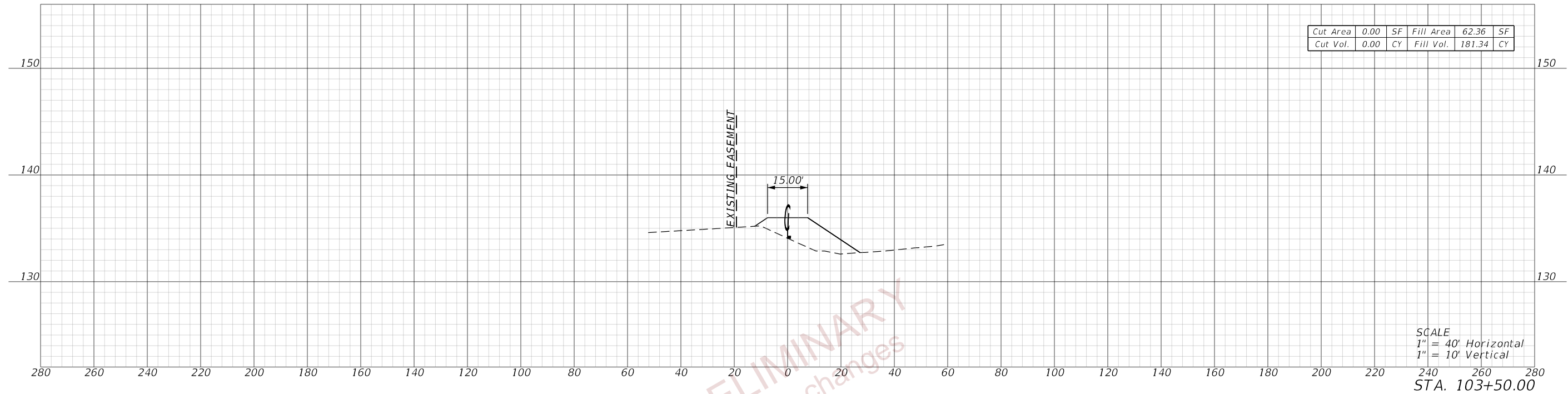


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 subject to changes

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (34) FLAT PATH	SHEET NO. 65
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400	POLK	201214-8-52-01					

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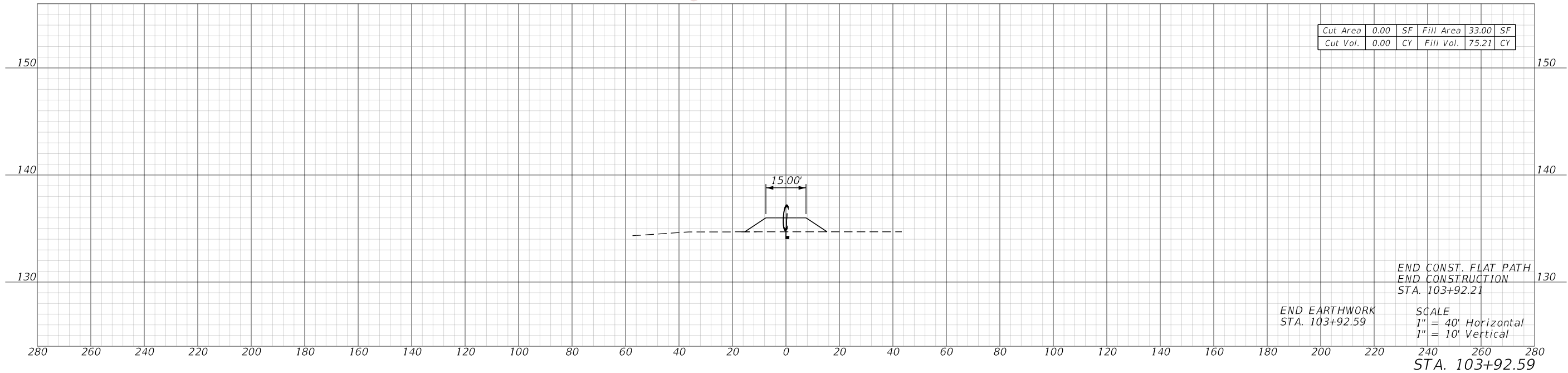


PRELIMINARY
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (35) FLAT PATH	SHEET NO. 66
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (36) FLAT PATH	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		67
								SR 400		POLK

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE STANDARD PLANS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS THE CONSTRUCTION OF A WILDLIFE OVERPASS OVER INTERSTATE 4 (SR 400). THIS INVOLVES CONSTRUCTING MSE WALLS, BRIDGE ABUTMENTS AND SUPERSTRUCTURE, BRIDGE SUPPORT COLUMNS, GUARDRAIL, CROSS DRAINS, AND STORMWATER MANAGEMENT FACILITIES. THE PROJECT EXTENDS FROM SOUTH OF I-4 TO NORTH OF I-4, A DISTANCE OF APPROXIMATELY 0.32 MILES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS A SEQUENCE IS PROPOSED THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND CROSS DRAIN CONSTRUCTION.
2. CLEARING AND GRUBBING, EARTHWORK FOR FLOODPLAIN COMPENSATION CONSTRUCTION AND POND 200 MODIFICATION.
3. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF WALLS, BRIDGE CONSTRUCTION.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 13 ACRES
 TOTAL AREA TO BE DISTURBED: 13 ACRES

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:

BEFORE: 0.30
 DURING: VARIES FROM 0.30 TO 0.40
 AFTER: 0.35

SOILS DATA: THE RESULTS OF SOIL BORINGS DONE INDICATE THE SOILS ARE GENERALLY SILTY SANDS AND CLAYEY SANDS.

OUTFALL INFORMATION:

THERE IS 1 OUTFALL.

#1 DESCRIPTION: WETLAND/QUAIL CREEK.

LOCATION: LATITUDE 28° 09' 06.35" N, LONGITUDE, 81° 52' 22.34" W.
 EST. DRAINAGE AREA SIZE: 100 ACRES
 RECEIVING WATER NAME: QUAIL CREEK.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS.

* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS. THERE ARE POND TYPICAL SECTIONS LOCATED WITH THE POND DETAIL SHEETS.

* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

* AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.

* LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL.

* LOCATIONS OF PERMANENT CONTROLS: THE FLOODPLAIN COMPENSATION SITES AND CROSS DRAINS ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE POND DETAIL SHEETS.

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, THE PLAN-PROFILE SHEETS AND THE POND DETAIL SHEETS.

* SURFACE WATERS: THE ONLY SURFACE WATER WITHIN THE SITE IS THE DITCH LOCATED EAST OF THE WILDLIFE OVERPASS SOUTH OF I-4, WHICH FLOWS THROUGH THE EXISTING CULVERT (UNDER I-4) AT STATION 1207+65.

* DISCHARGE POINTS TO SURFACE WATERS: THERE ARE TWO. RUNOFF FROM THE SOUTHERN TIE DOWN OF THE WILDLIFE OVERPASS DISCHARGES TO THE EXISTING DITCH TO THE EAST. RUNOFF FROM THE NORTHERN TIE DOWN OF THE WILDLIFE OVERPASS DISCHARGES TO THE EXISTING WETLAND TO THE NORTH, WHICH DRAINS NORTH TO QUAIL CREEK.

1.F. RECEIVING WATERS:

SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES. THERE ARE WETLAND AREAS ON THE PROJECT SITE. THE PROJECT SITE IS LOCATED WITHIN WBID 1449B, ORANGE HAMMOCK, AND DRAINS VIA QUAIL CREEK TO WBID 1426, PONY CREEK. NEITHER WBID IS IMPAIRED. BOTH WBIDS ARE WITHIN THE UPPER WITHLACOOCHEE BASIN GROUP. NO BMAP OR TMDL'S ARE CURRENTLY AVAILABLE FOR THESE WBIDS.

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					SR 400	POLK	201214-8-52-01	

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

CROSS DRAINS:

CONSTRUCT THE CROSS DRAINS, CD-1 AND CD-2. THE CONTRACTOR SHALL HAVE INLET PROTECTION AVAILABLE AT ALL TIMES DURING THE PIPE CONSTRUCTION TO SUBSTANTIALLY BLOCK RUNOFF IN THE TRENCH FROM ENTERING THE PIPE.

FLOODPLAIN COMPENSATION SITE CONSTRUCTION:

CLEAR AND GRUB THE FLOODPLAIN COMPENSATION SITES. INITIALLY EXCAVATE THE SITES ONLY ENOUGH TO CONSTRUCT SEDIMENT BARRIERS AS DETAILED IN THE EROSION CONTROL PLAN. THEN EXCAVATE THE SITES TO APPROXIMATE PROPOSED DIMENSIONS. TURF ALL DISTURBED AREAS OF THE SITES ABOVE ELEVATION 134.5. FINAL GRADING WILL BE DONE AT THE END OF BRIDGE CONSTRUCTION.

POND 200 MODIFICATION:

CLEAR AND GRUB THE POND SITE. INITIALLY EXCAVATE THE SITE ONLY ENOUGH TO CONSTRUCT SEDIMENT BARRIERS AS DETAILED IN THE EROSION CONTROL PLAN. CONSTRUCT DOUBLE SILT FENCE ALONG WETLAND BOUNDARY. THEN EXCAVATE THE SITES TO APPROXIMATE PROPOSED DIMENSIONS. TURF ALL DISTURBED AREAS OF THE SITE ABOVE ELEVATION 134.5. FINAL GRADING WILL BE DONE AT THE END OF BRIDGE CONSTRUCTION.

PHASE I OF TEMPORARY TRAFFIC CONTROL PLANS:

CONSTRUCT BRIDGE PIER IN MEDIAN ALONG SR 400

PLACE INLET PROTECTION AROUND INLETS LOCATED IN THE MEDIAN OF SR 400, WITHIN 300 FEET OF WORK ZONE. IMMEDIATELY AFTER CONSTRUCTING THE TEMPORARY PAVEMENT, STABILIZE THE ENTIRE AREA BETWEEN THE TEMPORARY PAVEMENT AND THE EXISTING PAVEMENT USING TEMPORARY SOD. PROVIDE INLET PROTECTION AND MAINTIAN TEMPORARY CROSS DRAINS.

PHASE II OF TEMPORARY TRAFFIC CONTROL PLANS:

CONSTRUCT RETAINING WALLS ALONG THE OUTSIDE OF SR 400

INSTALL SEDIMENT BARRIERS AROUND PERIMETER OF WORK ZONE AS DETAILED IN THE EROSION CONTROL PLAN. INSTALL FLOATING TURBIDIDTY BARRIER AT INVERTS OF EXISTING CROSS DRAINS AND WITHIN EXISTING WET DITCHES, AND INSTALL STAKED TURBIDITY BARRIER WITHIN EXISTING DRY SWALES IMMEDIATELY UPSTREAM AND DOWNSTREAM OF WORK ZONE, AS DETAILED IN THE EROSION CONTROL PLAN.

PHASE III OF TEMPORARY TRAFFIC CONTROL PLANS:

CONSTRUCT BRIDGE SUPERSTRUCTURE OVER EASTBOUND SR 400

INSTALL STAKED TURBIDITY BARRIER WITHIN EXISTING DRY SWALES

IMMEDIATELY UPSTREAM AND DOWNSTREAM OF WORK ZONE, AS DETAILED IN THE EROSION CONTROL PLAN. PLACE INLET PROTECTION AROUND INLETS LOCATED IN THE MEDIAN OF SR 400, WITHIN 300 FEET OF WORK ZONE. PROVIDE INLET PROTECTION AND MAINTIAN TEMPORARY CROSS DRAINS.

PHASE IV OF TEMPORARY TRAFFIC CONTROL PLANS:

CONSTRUCT BRIDGE SUPERSTRUCTURE OVER WESTBOUND SR 400

INSTALL STAKED TURBIDITY BARRIER WITHIN EXISTING DRY SWALES IMMEDIATELY UPSTREAM AND DOWNSTREAM OF WORK ZONE, AS DETAILED IN THE EROSION CONTROL PLAN. PLACE INLET PROTECTION AROUND INLETS LOCATED IN THE MEDIAN OF SR 400, WITHIN 300 FEET OF WORK ZONE. PROVIDE INLET PROTECTION AND MAINTIAN TEMPORARY CROSS DRAINS.

2.A1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- * ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.
- * TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

- * SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

- * SEDIMENT BARRIERS AND TURBIDITY BARRIERS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
- * INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102.

- * SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT FLOODPLAIN COMPENSATION SITES MAY BE TEMPORARILY MODIFIED.

PERMANENT:

- * FLOODPLAIN COMPENSATION SITES.
- * SOD.

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2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- * PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- * DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. INCLUDE IN THE PROPOSED METHODS AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.
- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- * SILT FENCE: MAINTAIN PER SECTION 104. ANTICIPATE REPLACING SILT FENCE ON 12-MONTH INTERVALS.
- * SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER.

TO COMPLY, INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, CONDUCT INSPECTION AT LEAST ONCE EVERY MONTH. ALSO, INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

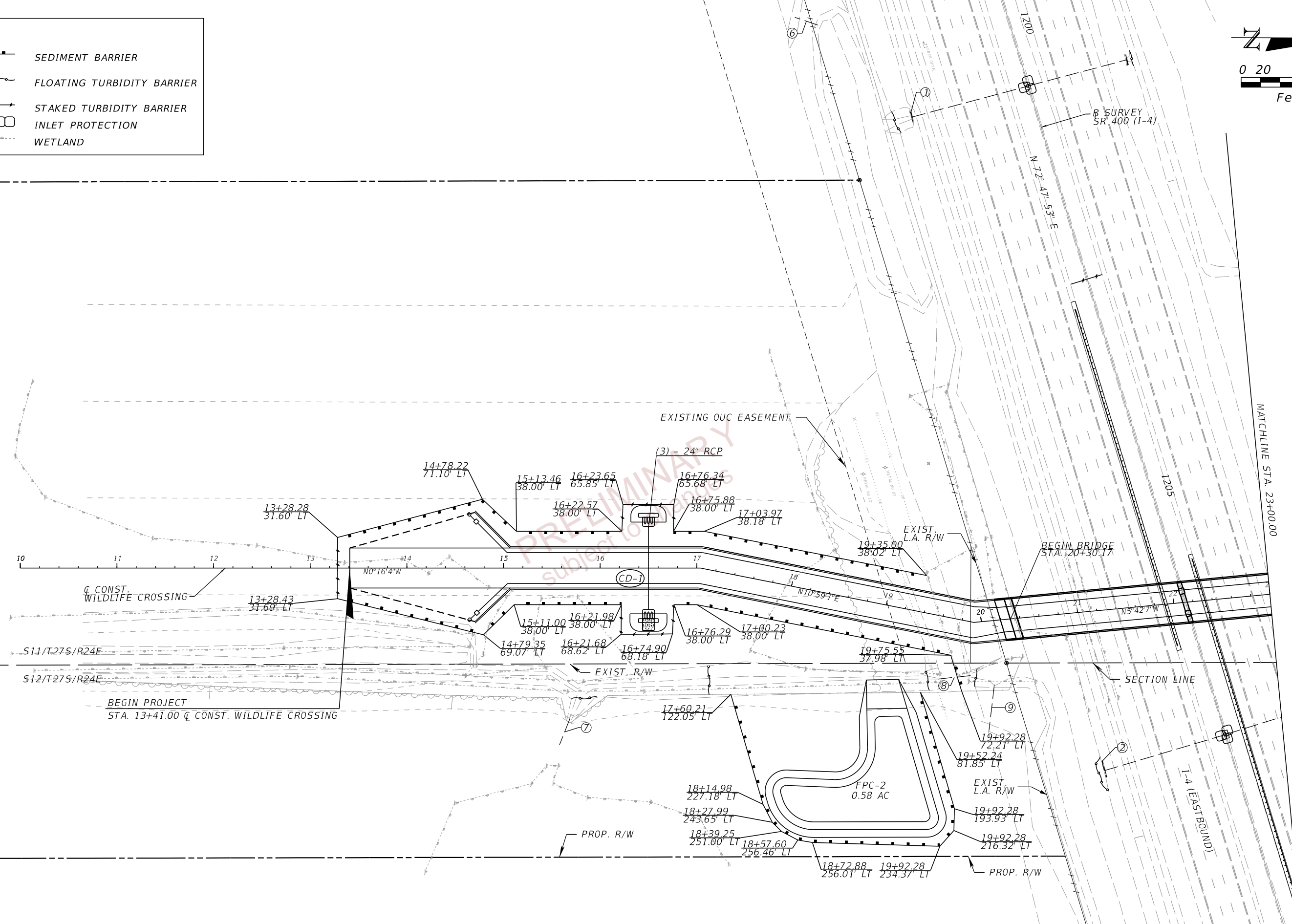
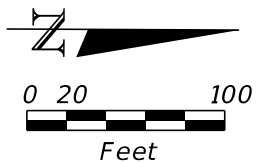
5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE DISTRICT HAZARDOUS MATERIALS COORDINATOR AT (863) 519-2300.

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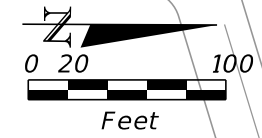
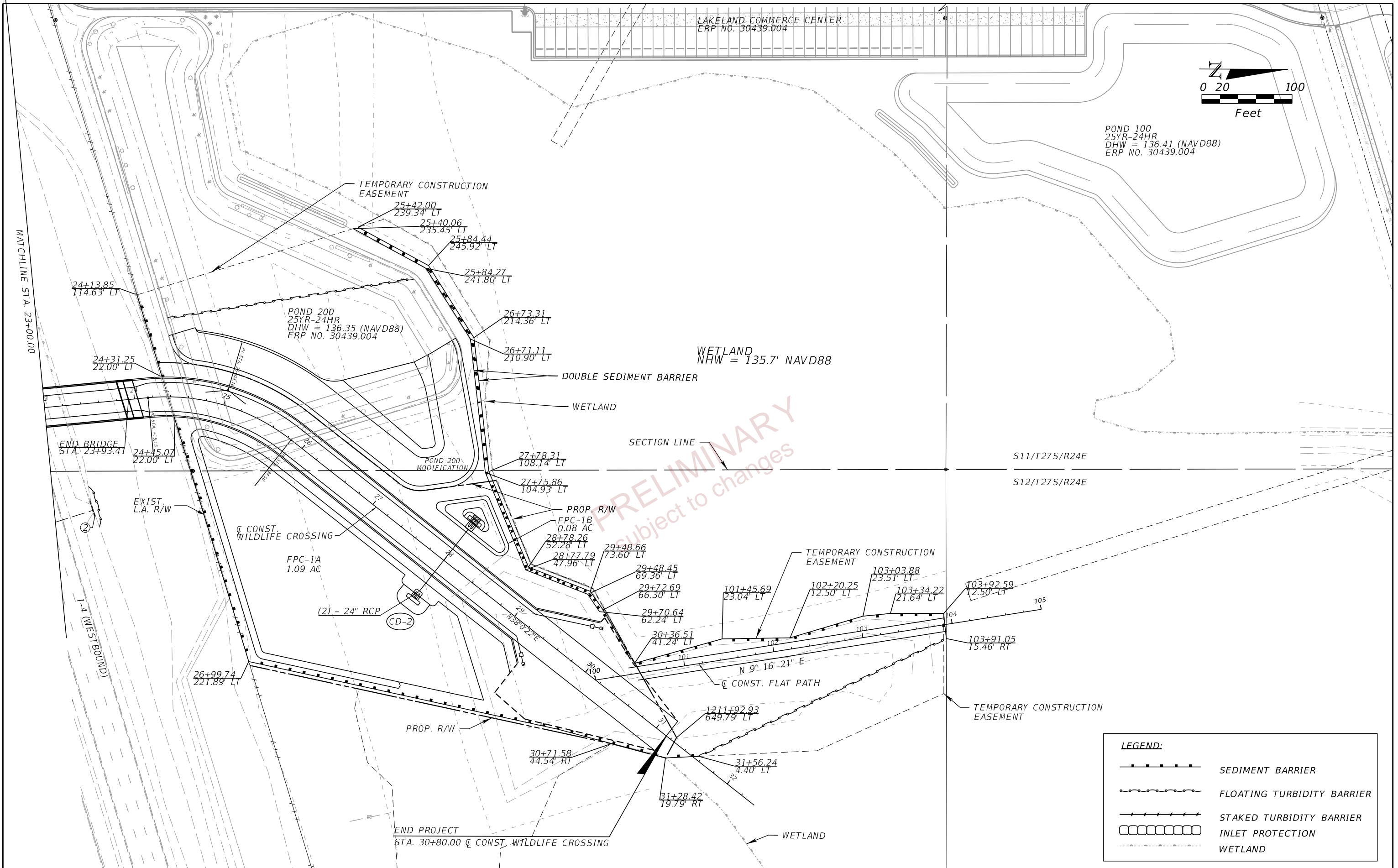
LEGEND:

	SEDIMENT BARRIER
	FLOATING TURBIDITY BARRIER
	STAKED TURBIDITY BARRIER
	INLET PROTECTION
	WETLAND



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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EROSION CONTROL PLANS (01)									

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POND 100
25YR-24HR
DHW = 136.41 (NAVD88)
ERP NO. 30439.004

PRELIMINARY
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LEGEND:	
	SEDIMENT BARRIER
	FLOATING TURBIDITY BARRIER
	STAKED TURBIDITY BARRIER
	INLET PROTECTION
	WETLAND

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1. THE REGULATORY SPEED LIMIT THROUGH THE WORK ZONE ON THIS PROJECT IS TO REMAIN THE SAME AS THE EXISTING POSTED SPEED ON SR 400 (I-4) UNLESS OTHERWISE SHOWN IN THE PLANS.

THE REGULATORY SPEED LIMIT FOR THE PROJECT WORK ZONE ARE AS FOLLOWS:

ROADWAY	REGULATORY SPEED LIMIT (MPH)	WORK ZONE SPEED LIMIT
SR 400 (I-4)	70 MPH	70 MPH

2. ALL LANE CLOSURES MUST BE COORDINATED WITH EMERGENCY AND RESCUE AGENCIES AND INFORM THE FDOT TRAFFIC OPERATIONS SECTION AND SUBMIT REQUEST TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURES. NOTIFY THE FDOT PUBLIC INFORMATION OFFICER ONE (1) WEEK IN ADVANCE OF LANE CLOSURES.

3. NOTIFY LOCAL LAW ENFORCEMENT AGENCIES, FIRE STATIONS, AND THE PUBLIC THROUGH MEDIA OUTLETS TWO WORKING DAYS IN ADVANCE OF LANE AND RAMP CLOSURES.

4. LANE CLOSURE RESTRICTIONS:
SR 400 (I-4):

NO SINGLE LANE CLOSURES FROM 6:30 AM TO 8:30 PM.
NO DOUBLE LANE CLOSURES FROM 6:00 AM TO 10:30 PM.

5. LANE CLOSURES MAY ONLY BE UTILIZED DURING ACTIVE WORK PERIODS. THE WORK ZONE LENGTH FOR CONSTRUCTION ACTIVITIES REQUIRING LANE CLOSURES SHALL BE LIMITED TO THAT WHICH CAN BE CONSTRUCTED AND OPENED TO TRAFFIC IN A SINGLE WORK PERIOD. THE CONTRACTOR IS TO MAINTAIN EXISTING LANES OF TRAFFIC IN EACH DIRECTION AT ALL OTHER TIMES.

6. THE TRAFFIC MANAGEMENT CENTER (TMC) SHALL BE NOTIFIED WHEN A LANE CLOSURE IS IMPLEMENTED AND WHEN LANES ARE REOPENED FOR TRAFFIC. TMC CONTACT: 813-615-8657

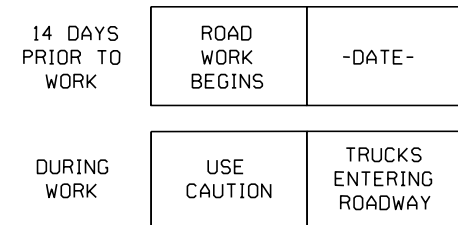
7. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR, MATERIALS, AND EQUIPMENT ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.

8. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE USED TO PROVIDE INFORMATION TO THE MOTORIST DURING THE TRAFFIC CONTROL PHASES AND SHALL RELATE INFORMATION CONCERNING CONSTRUCTION SCHEDULES, LENGTH OF DELAY, ETC.; CONTENT AND LENGTH OF MESSAGE SHALL BE APPROVED BY THE ENGINEER. INFORMATIONAL MESSAGE SHALL BE PLACED TWO WEEKS PRIOR TO MAJOR WORK ACTIVITIES, WHICH WILL BE DEFINED BY THE ENGINEER.

9. COORDINATE WITH FLORIDA'S TURNPIKE ENTERPRISE FOR TOLL PAYMENT SUSPENSION DURING DETOUR HOURS 14 DAYS PRIOR TO DETOUR START AND NOTIFY TURNPIKE TMC BEFORE AND AFTER A DETOUR IS IMPLEMENTED. TURNPIKE TMC CONTACT: 407-264-3363

10. NOTIFY FLORIDA POLYTECHNIC UNIVERSITY POLICE 14 DAYS PRIOR TO DETOUR START. UNIVERSITY POLICE CONTACT: 863-874-8472

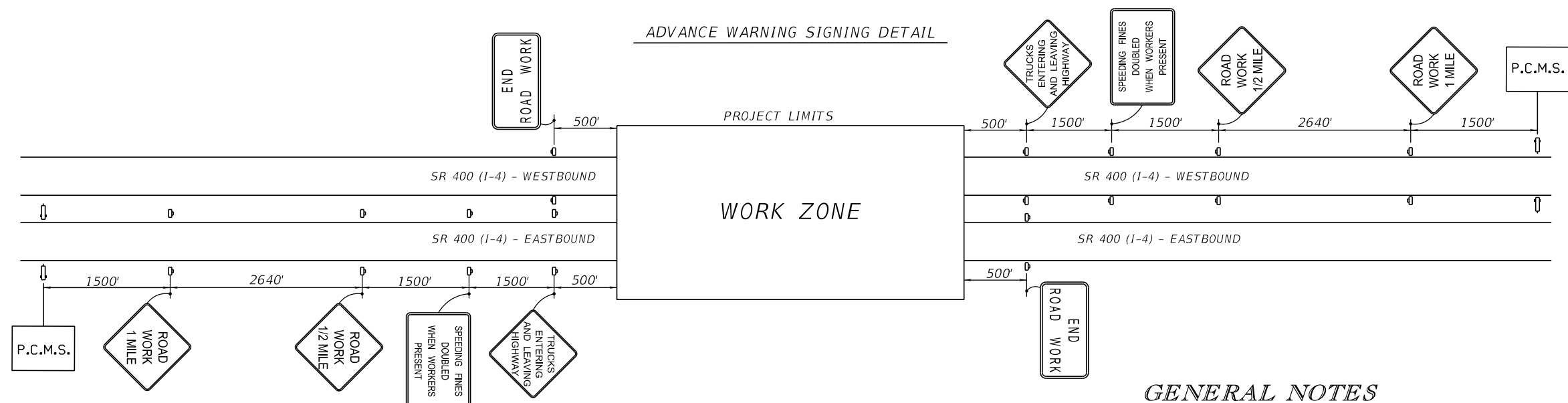
TYPICAL
PORTABLE CHANGEABLE (VARIABLE)
MESSAGE SIGN (P.C.M.S.)



PRELIMINARY
subject to changes

LEGEND

- Work Zone Sign
- Portable Changeable (Variable) Message Sign



GENERAL NOTES

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810	SR 400	POLK	201214-8-52-01	73
TEMP. TRAFFIC CONTROL PLAN (01)								

PHASE I
THE INTENT OF THIS PHASE IS TO CONSTRUCT THE PIER IN THE MEDIAN ALONG SR 400.

STEP 1

1. INSTALL WORK ZONE SIGNS, ADVANCED SIGNING DETAIL AND TRAFFIC CONTROL DEVICES UTILIZING STANDARD PLANS INDEX 102-602.
2. INSTALL TEMPORARY EROSION CONTROL DEVICES.

STEP 2

1. PLACE TEMPORARY BARRIER WALL AND TEMPORARY CRASH CUSHIONS ALONG THE INSIDE SHOULDERS AS SHOWN IN THE PHASE 1 - STEP 2 PLAN SHEET AND PHASE 1 - STEP 2 TYPICAL SECTION. UTILIZE STANDARD PLANS INDEX 102-613 FOR SINGLE LANE CLOSURE AND MOTORIST AWARENESS SYSTEM.
2. CONSTRUCT THE PIER AND GUARDRAIL WITHIN THE MEDIAN.

PHASE II

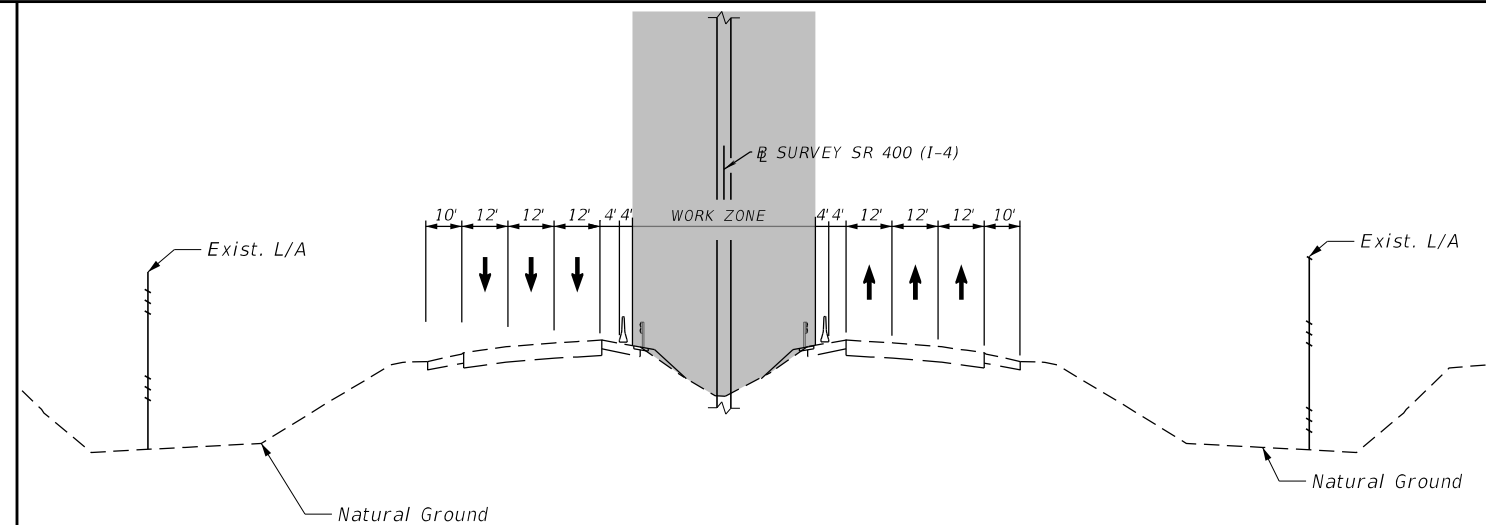
THE INTENT OF THIS PHASE IS TO CONSTRUCT THE RETAINING WALLS ALONG THE OUTSIDE OF SR 400.

1. INSTALL WORK ZONE SIGNS, ADVANCE SIGNING AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN IN THE STANDARD PLANS INDEX 102-602.
2. INSTALL TEMPORARY EROSION CONTROL DEVICES.
3. INSTALL CHANNELIZING DEVICES OUTSIDE OF THE PAVED SHOULDERS AS SHOWN IN THE PHASE II TYPICAL SECTION.
4. CONSTRUCT THE RETAINING WALLS.

PHASE III

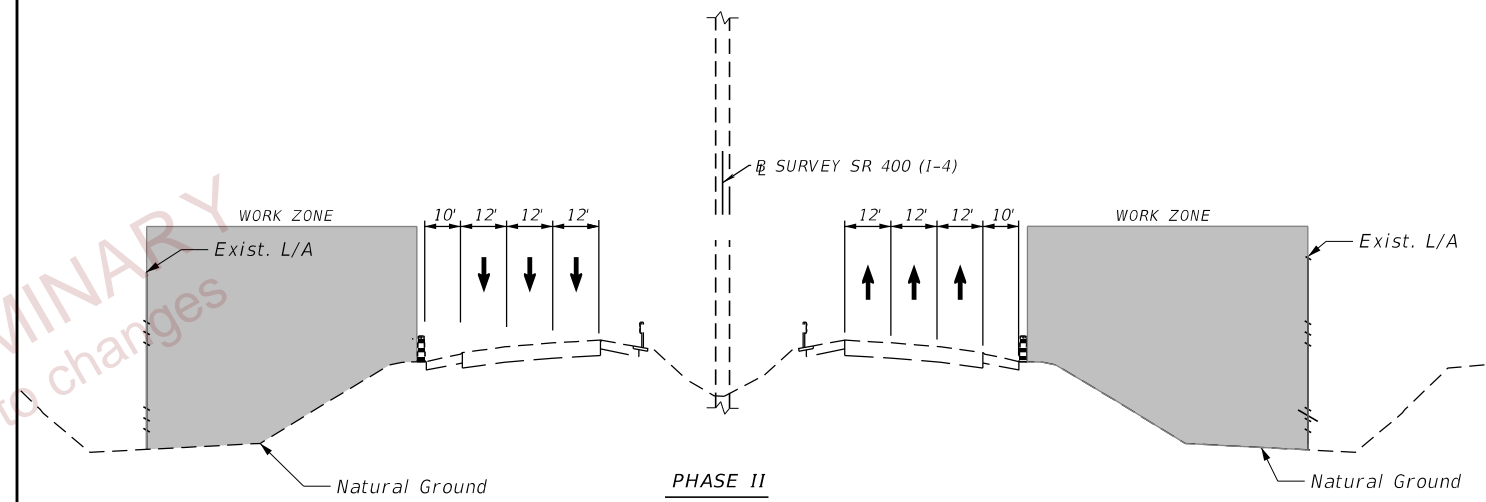
THE INTENT OF THIS PHASE IS TO CONSTRUCT THE BRIDGE SUPERSTRUCTURE OVER SR 400.

1. INSTALL WORK ZONE SIGNS AND TRAFFIC CONTROL DEVICES AS SHOWN IN THE TRAFFIC CONTROL PLAN (DETOUR DETAIL).
2. CONSTRUCT THE BRIDGE SUPERSTRUCTURE OVER SR 400 (I-4 EASTBOUND).
3. CONSTRUCT THE BRIDGE SUPERSTRUCTURE OVER SR 400 (I-4 WESTBOUND).



PHASE I - STEP 2
NTS

NOTE: EXISTING PAVEMENT MARKINGS ARE TO REMAIN.



PHASE II
NTS

NOTE: EXISTING PAVEMENT MARKINGS ARE TO REMAIN.

LEGEND

- ▬ CHANNELIZING DEVIVE (SEE INDEX 102-600)
- ▲ TEMPORARY BARRIER (FREE STANDING)

PRELIMINARY
subject to changes

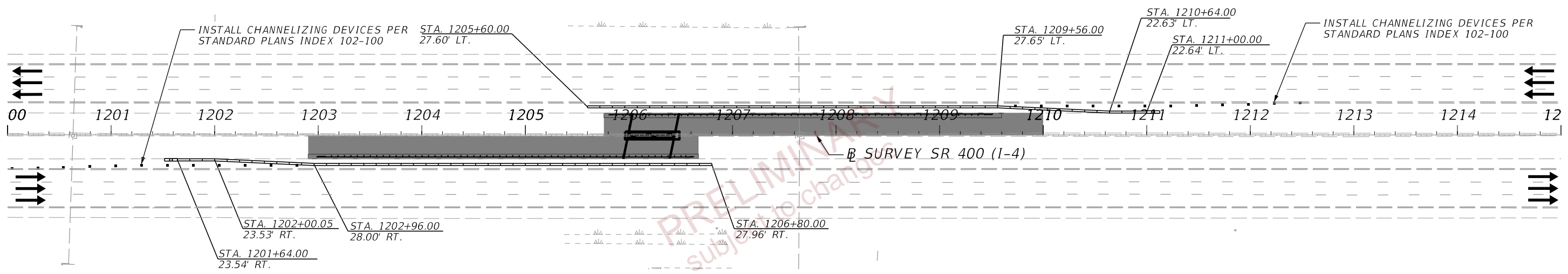
TYPICAL SECTIONS

**TEMP. TRAFFIC CONTROL
PLAN (02)**

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
										SR 400

6/13/2023 11:23:15 AM dnguyen c:\pw_working\ociner-pw-01\dms19856\TCTYRD01.dgn

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PRELIMINARY
subject to change

- LEGEND:**
- DIRECTION OF TRAFFIC
 - WORK ZONE
 - CRASH CUSHION
 - TEMP. BARRIER WALL (FREE STANDING)

PHASE 1 - STEP 2

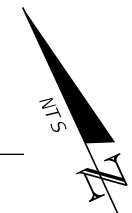
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMP. TRAFFIC CONTROL PLAN (03)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLÉ, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		75
						SR 400	POLK	201214-8-52-01		

6/13/2023 11:23:19 AM dnguyen P:\ORD_FDOT\Worksets\FDOT\20121485201\roadway\TCPLRD02.dgn

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

ROAD CLOSURE NOTES

1. REFER TO STANDARD PLANS INDEX 102-613 FOR DOUBLE LANE CLOSURE ADVANCE SIGNING AND ADDITIONAL DETAILS.
2. ROAD CLOSURES AND DETOUR ARE ALLOWED BETWEEN THE HOURS OF 11:00 PM TO 5:00 AM.
3. USE OF ROAD CLOSURE IS RESTRICTED TO OVERHEAD BRIDGE CONSTRUCTION ONLY.
4. I-4 ROAD CLOSURE SHALL NOT OCCUR CONCURRENTLY WITH ANY FPID 430185-3-52-01 LANE CLOSURES.

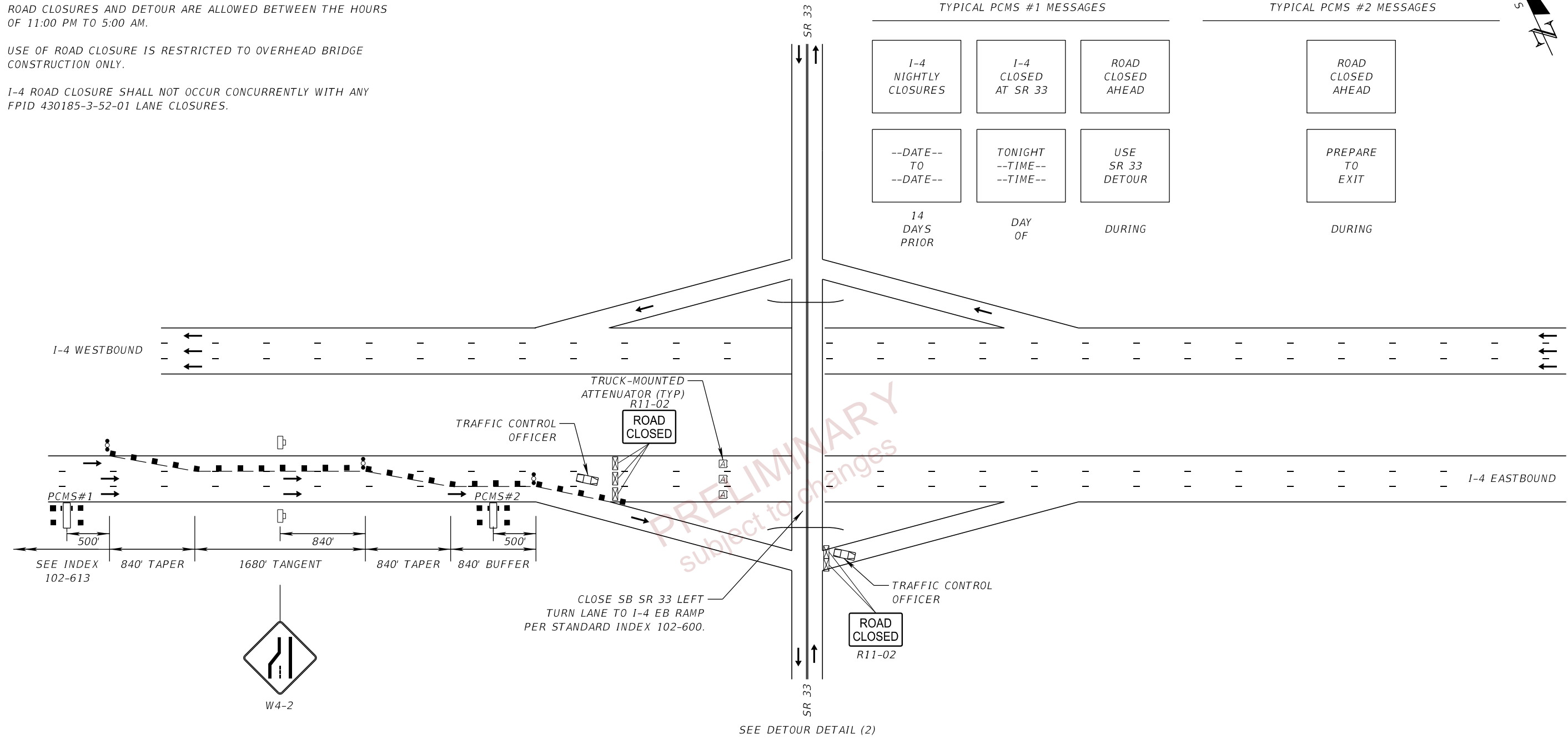


TYPICAL PCMS #1 MESSAGES

TYPICAL PCMS #2 MESSAGES

I-4 NIGHTLY CLOSURES	I-4 CLOSED AT SR 33	ROAD CLOSED AHEAD
--DATE-- TO --DATE--	TONIGHT --TIME-- --TIME--	USE SR 33 DETOUR
14 DAYS PRIOR	DAY OF	DURING

ROAD CLOSED AHEAD
PREPARE TO EXIT
DURING



PRELIMINARY
 subject to changes

LEGEND

- PCMS
- Lane Identification and Direction of Traffic
- Channelizing Devices (See Index 102-600)
- Type III Barricade
- Work Zone Sign
- Advance Warning Arrow Panel

DETOUR DETAIL (1)
(EASTBOUND I-4 CLOSURE)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	76

TEMP. TRAFFIC CONTROL
PLAN (04)

6/13/2023 11:23:21 AM dnguyen P:\ORD_FDOT_Works\sets\FDOT\20121485201\roadway\TCLRD01.dgn

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

DETOUR OBJECTIVE:

I-4 EB: DETOUR TO SR 33 SB / LEFT AT UNIVERSITY BLVD. / RIGHT AT POLK PKWY RAMP TO GET TO I-4 EB RE-ENTRY

SR 33 NB: RIGHT AT UNIVERSITY BLVD, DETOUR TO POLK PKWY TO GET TO I-4 EB

SR 33 SB: LEFT AT UNIVERSITY BLVD, DETOUR TO POLK PKWY TO GET TO I-4 EB

NOTE: CONTRACTOR SHALL COORDINATE WITH FLORIDA'S TURNPIKE ENTERPRISE TURKEY LAKE TMC AT (407) 264-3363
2 WEEKS PRIOR TO DETOUR START.

PLACE 1 PCMS EACH AT THE FOLLOWING LOCATIONS:

PCMS-1 ON SR 400 (I-4 EB) JUST WEST OF I-4 EB OFF RAMP (SEE TRAFFIC CONTROL DETAIL)

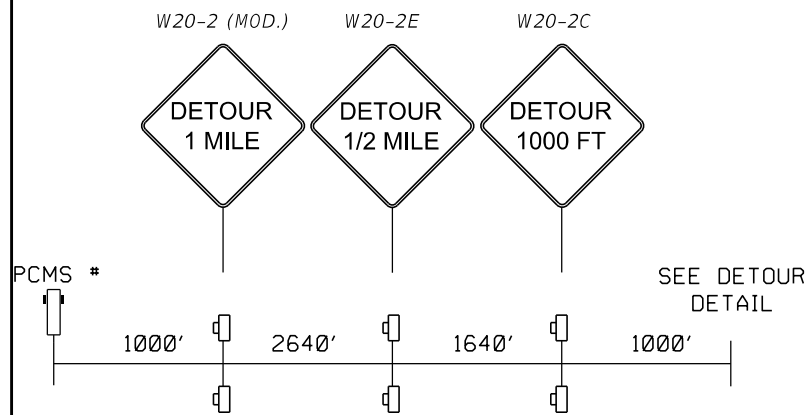
PCMS-2 ON SR 33 (LAKELAND HILLS BLVD) NB JUST SOUTH OF UNIVERSITY BLVD

PCMS-3 ON SR 33 (COMMONWEALTH AVE) SB JUST NORTH OF I-4 EB ON RAMP

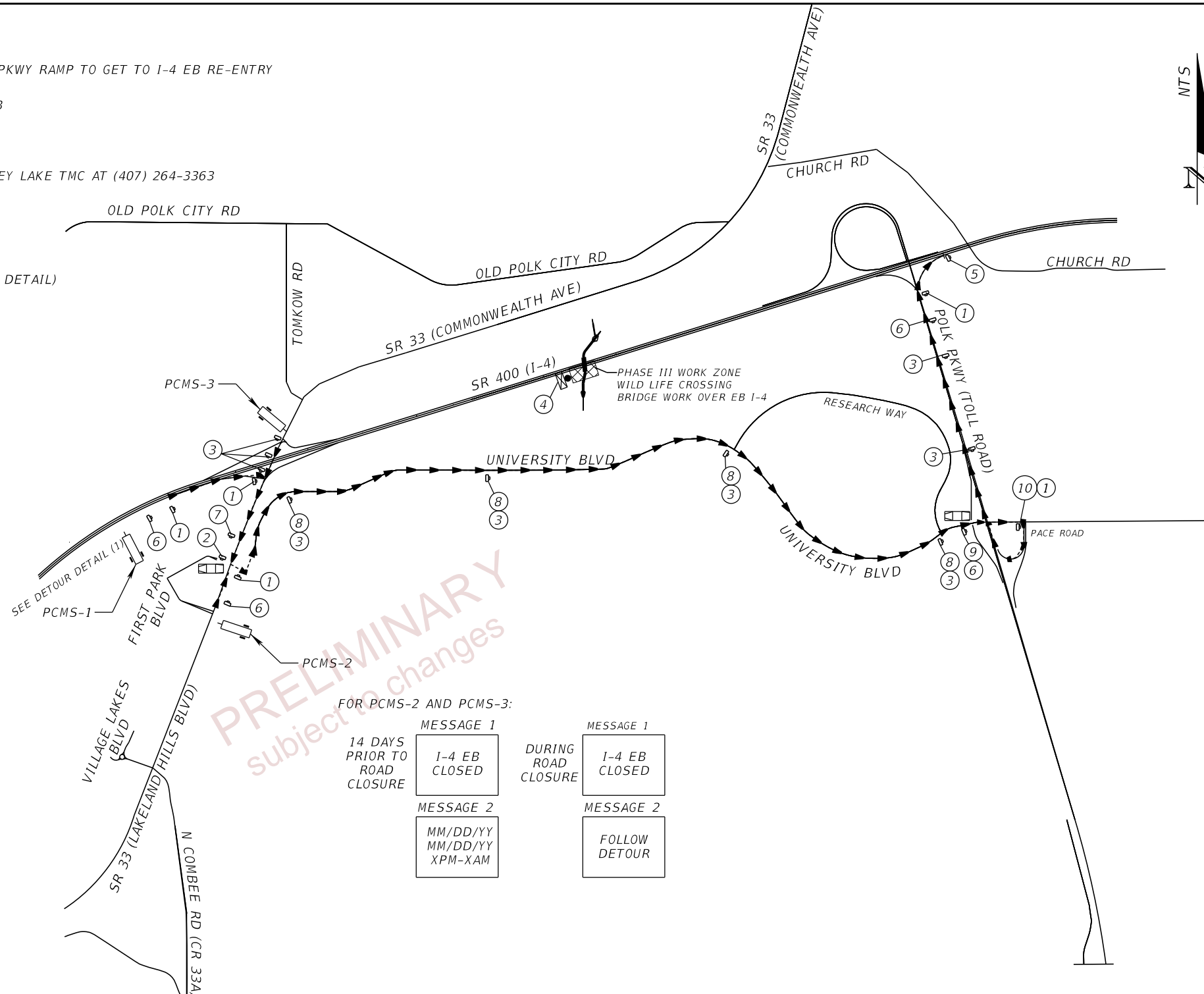
LEGEND

- Work Zone Sign
- Type III Barricade
- Portable Changeable (Variable) Message Sign
- Work Zone
- DETOUR ROUTE
- Law Enforcement Officer

PCMS DETAIL

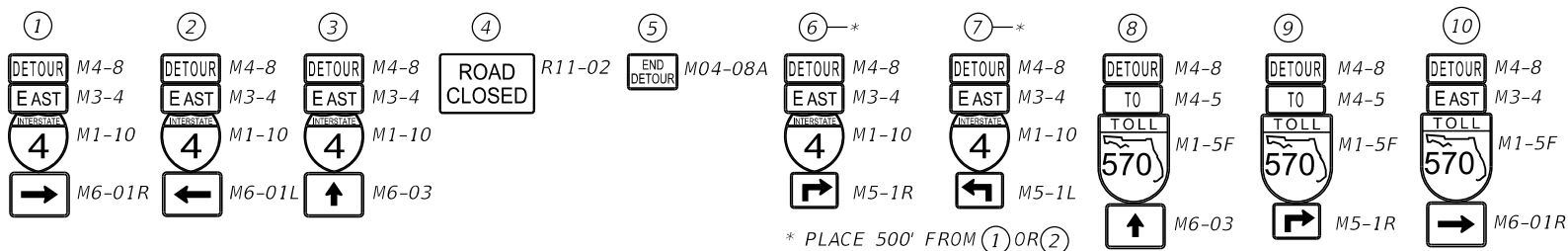


PRELIMINARY
subject to changes



FOR PCMS-2 AND PCMS-3:

14 DAYS PRIOR TO ROAD CLOSURE	MESSAGE 1 I-4 EB CLOSED	DURING ROAD CLOSURE	MESSAGE 1 I-4 EB CLOSED
	MESSAGE 2 MM/DD/YY MM/DD/YY XPM-XAM		MESSAGE 2 FOLLOW DETOUR



**DETOUR DETAIL (2)
(EASTBOUND I-4 CLOSURE)**

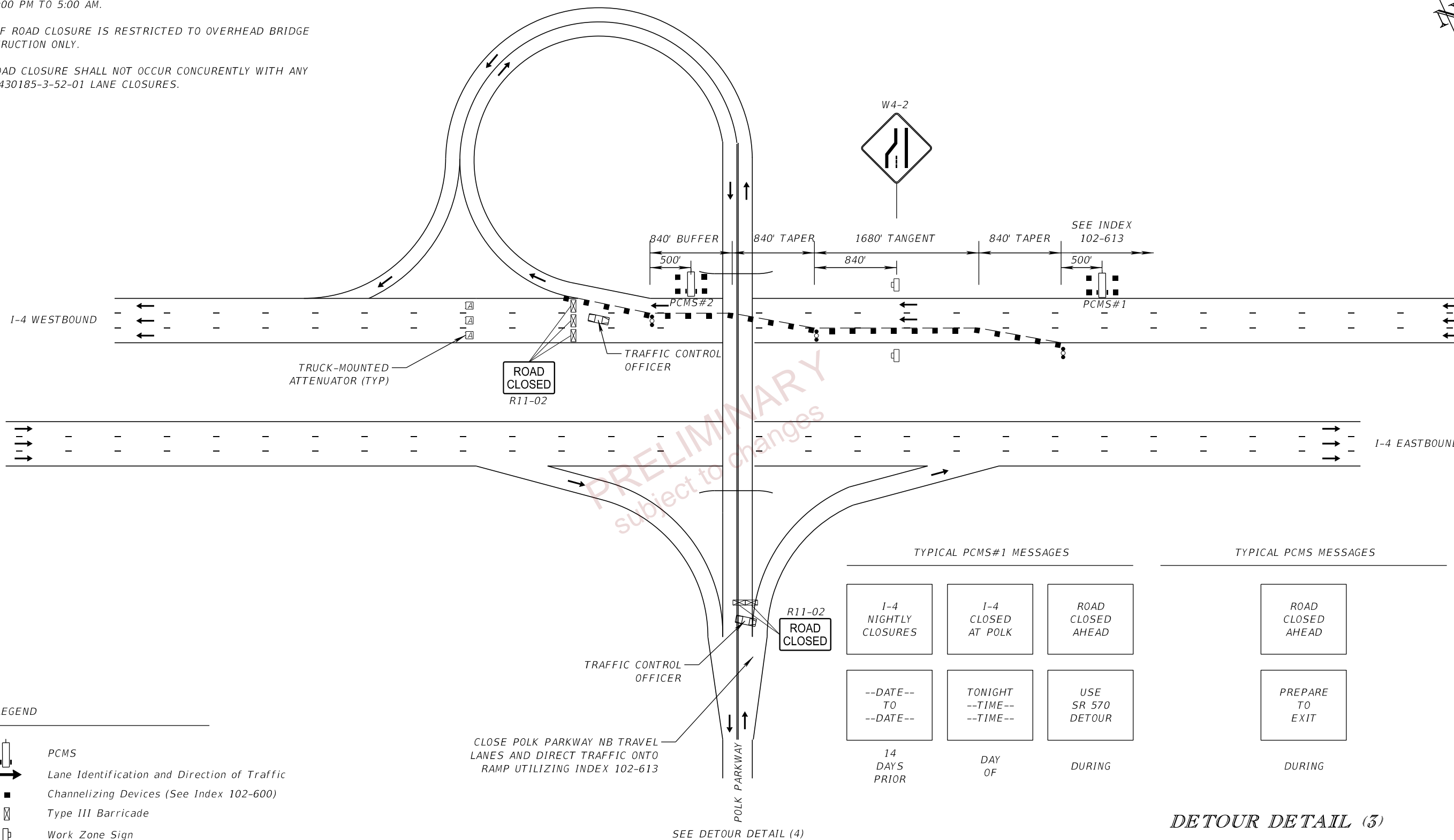
6/13/2023 11:23:21 AM dnguyen P:\ORD_FDOT_Works\6165\FDOT_20121485201_Roadway\TCPLR001.dgn

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

REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 77
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810		SR 400	POLK	201214-8-52-01	

ROAD CLOSURE NOTES

1. REFER TO STANDARD PLANS INDEX 102-613 FOR DOUBLE LANE CLOSURE ADVANCE SIGNING AND ADDITIONAL DETAILS.
2. ROAD CLOSURES AND DETOUR ARE ALLOWED ONLY BETWEEN THE HOURS OF 11:00 PM TO 5:00 AM.
3. USE OF ROAD CLOSURE IS RESTRICTED TO OVERHEAD BRIDGE CONSTRUCTION ONLY.
4. I-4 ROAD CLOSURE SHALL NOT OCCUR CONCURRENTLY WITH ANY FPID 430185-3-52-01 LANE CLOSURES.



LEGEND

- PCMS
- Lane Identification and Direction of Traffic
- Channelizing Devices (See Index 102-600)
- Type III Barricade
- Work Zone Sign
- Advance Warning Arrow Panel

TYPICAL PCMS#1 MESSAGES			TYPICAL PCMS MESSAGES
1-4 NIGHTLY CLOSURES	1-4 CLOSED AT POLK	ROAD CLOSED AHEAD	ROAD CLOSED AHEAD
--DATE-- TO --DATE--	TONIGHT --TIME-- --TIME--	USE SR 570 DETOUR	PREPARE TO EXIT
14 DAYS PRIOR	DAY OF	DURING	DURING

DETOUR DETAIL (3)
(WESTBOUND I-4 CLOSURE)

6/13/2023 11:23:22 AM dnguyen c:\pw_working\ociner-pw-01\dms19856\TCPLR001.dgn

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMP. TRAFFIC CONTROL PLAN (06)	SHEET NO. 78
DATE	DESCRIPTION	DATE	DESCRIPTION	RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

DETOUR OBJECTIVE:

I-4 WB: DETOUR TO POLK PKWY / RIGHT AT UNIVERSITY BLVD / RIGHT AT SR 33 TO GET TO I-4 WB RE-ENTRY

POLK PKWY NB: LEFT AT UNIVERSITY BLVD, DETOUR TO SR 33 NB TO GET TO I-4 WB

WB PACE ROAD: DETOUR TO SR 33 NB TO GET TO I-4 WB

NOTE: CONTRACTOR SHALL COORDINATE WITH FLORIDA'S TURNPIKE ENTERPRISE TURKEY LAKE TMC AT (407) 264-3363
2 WEEKS PRIOR TO DETOUR START.

PLACE 1 PCMS EACH AT THE FOLLOWING LOCATIONS:

PCMS-1 ON SR 400 (I-4) JUST EAST OF I-4 WB OFF RAMP (SEE TRAFFIC CONTROL DETAIL)

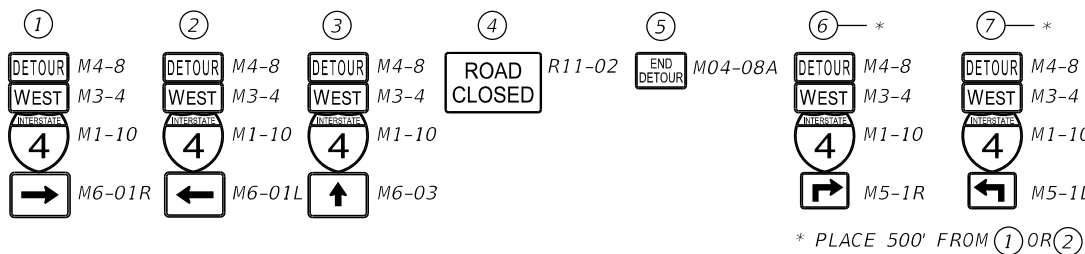
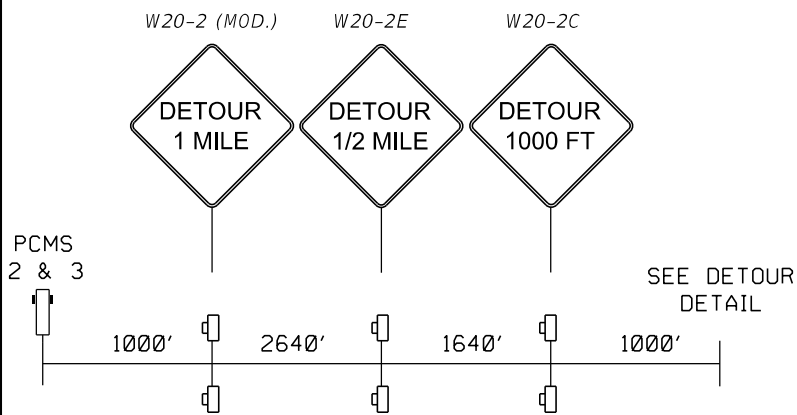
PCMS-2 ON POLK PKWY NB JUST SOUTH OF UNIVERSITY BLVD

PCMS-3 ON PACE ROAD WB JUST EAST OF POLK PKWY

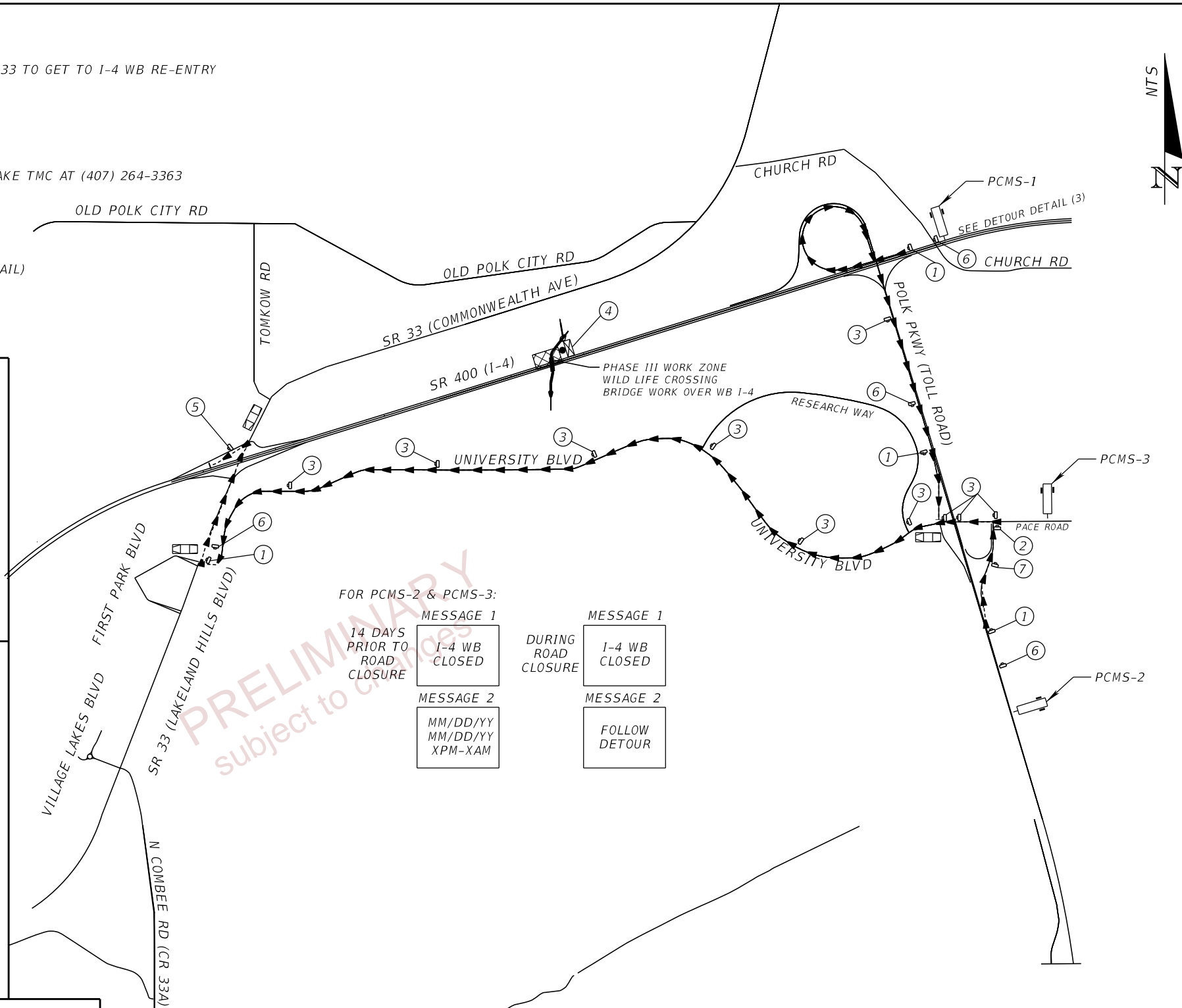
LEGEND

- Work Zone Sign
- Type III Barricade
- Portable Changeable (Variable) Message Sign
- Work Zone
- DETOUR ROUTE
- Law Enforcement Officer

PCMS DETAIL



* PLACE 500' FROM ① OR ②



FOR PCMS-2 & PCMS-3:

MESSAGE 1
14 DAYS PRIOR TO ROAD CLOSURE
I-4 WB CLOSED

MESSAGE 2
MM/DD/YY
MM/DD/YY
XPM-XAM

MESSAGE 1
DURING ROAD CLOSURE
I-4 WB CLOSED

MESSAGE 2
FOLLOW DETOUR

**DETOUR DETAIL (4)
(WESTBOUND I-4 CLOSURE)**

6/13/2023 11:23:22 AM dnguyen P:\ORD_FDOT_Works\GIS\FDOT\20121485201\Roadway\TCPLRD01.dgn

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

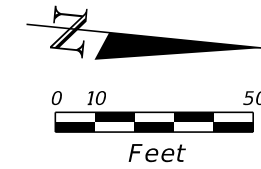
ENGINEER OF RECORD
RYAN J. WILLIAMSON, P.E.
LICENSE NUMBER 81421
BURGESS & NIPLE, INC.
1800 PEMBROOK DRIVE, SUITE 265
ORLANDO, FL 32810

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	POLK	201214-8-52-01

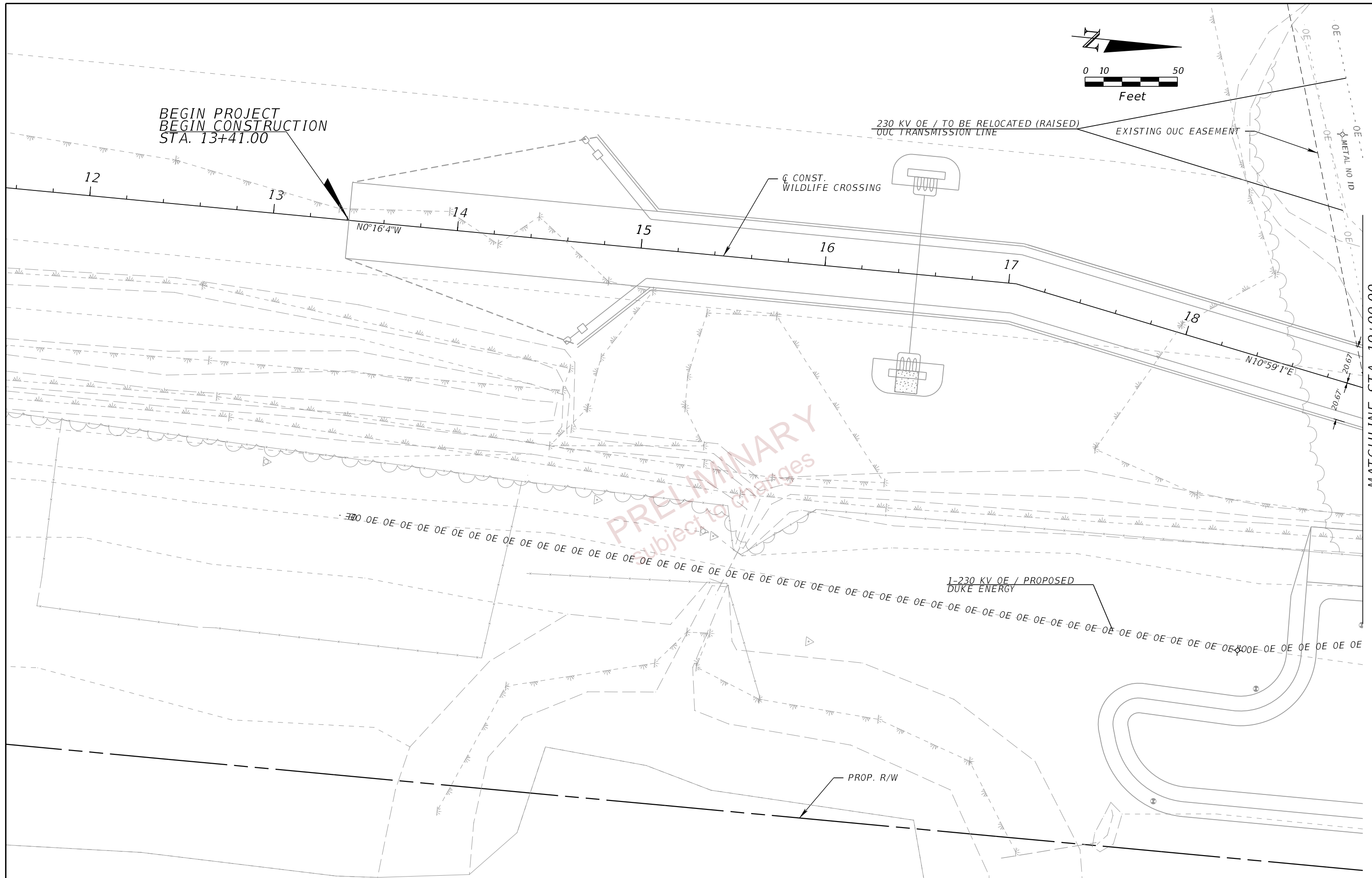
**TEMP. TRAFFIC CONTROL
PLAN (07)**

SHEET NO.
79

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



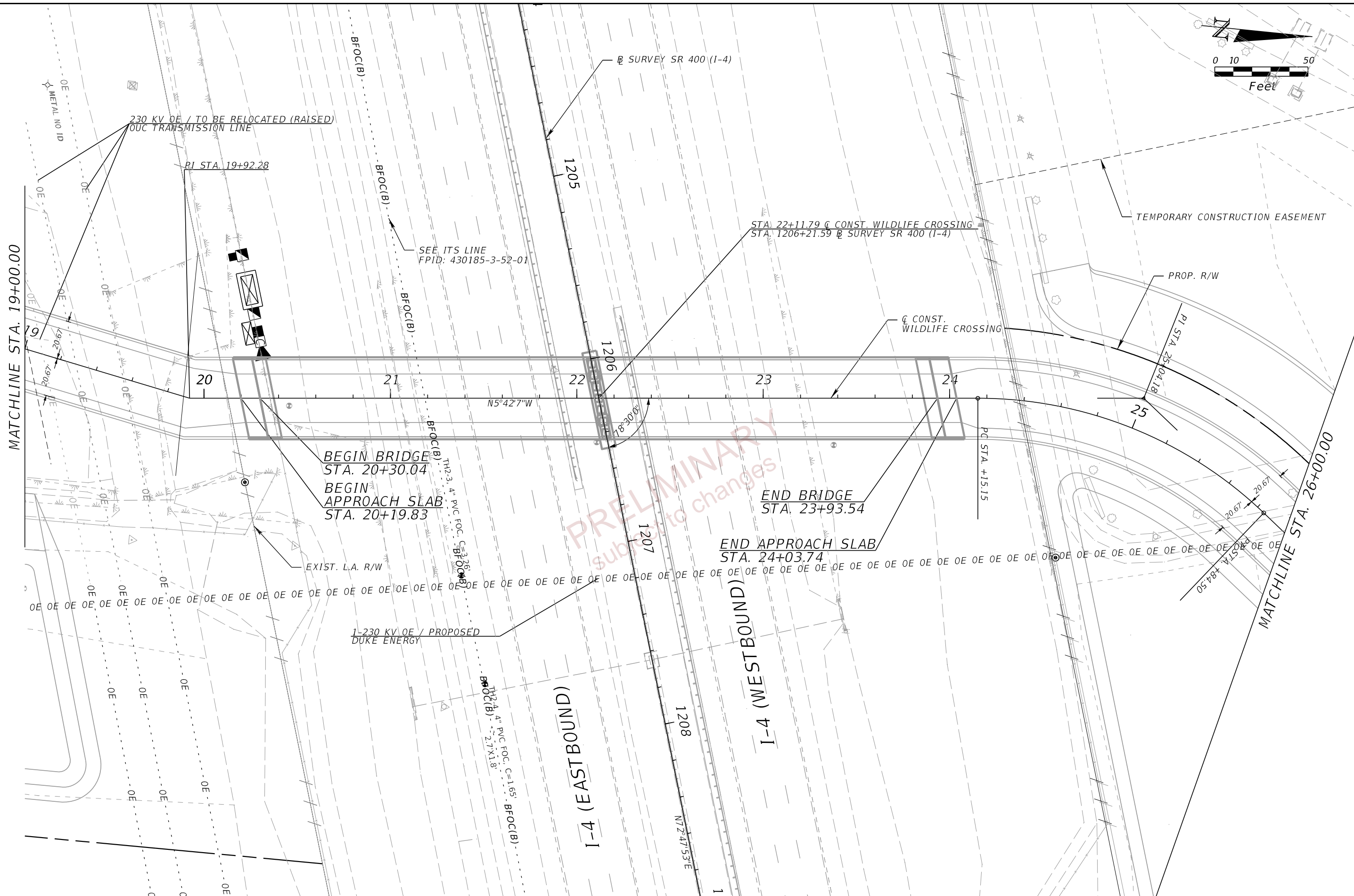
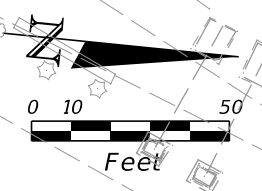
BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 13+41.00



MATCHLINE STA. 19+00.00

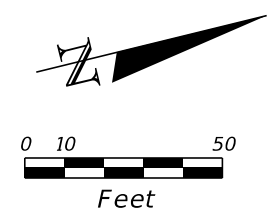
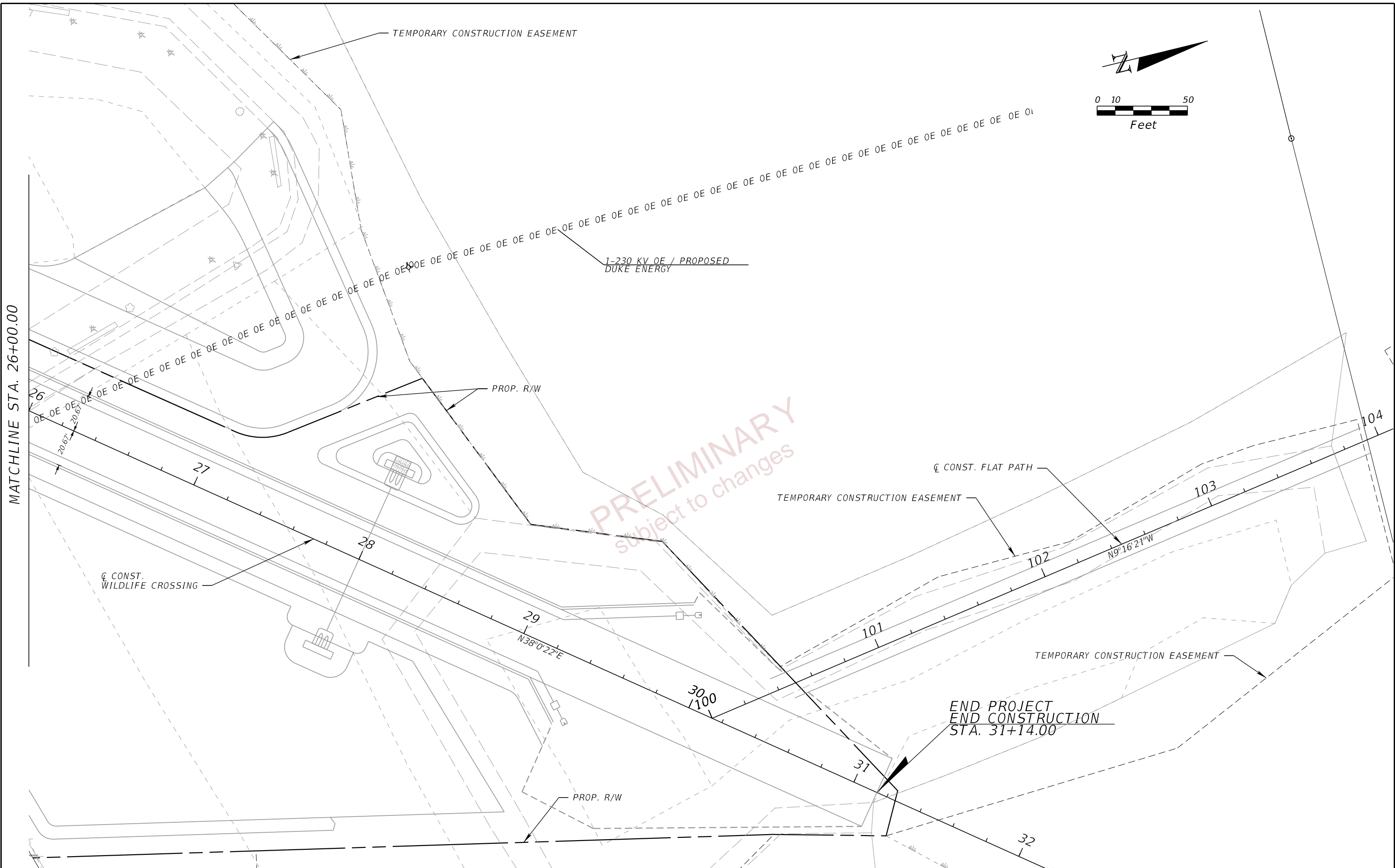
REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	SR 400	POLK	201214-8-52-01
UTILITY ADJUSTMENTS (01)							80

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA			UTILITY ADJUSTMENTS (02)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION				
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY		FINANCIAL PROJECT ID
					SR 400	POLK	201214-8-52-01	

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PRELIMINARY

subject to changes

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 400	POLK	201214-8-52-01	82

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UTILITY/AGENCY OWNERS: COMPANY
 ORLANDO UTILITIES COMMISSION
 TRANSCORE FDOT D-7 ITS
 DUKE ENERGY (TRANSMISSION)

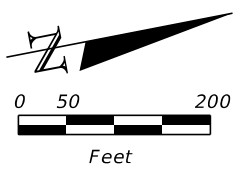
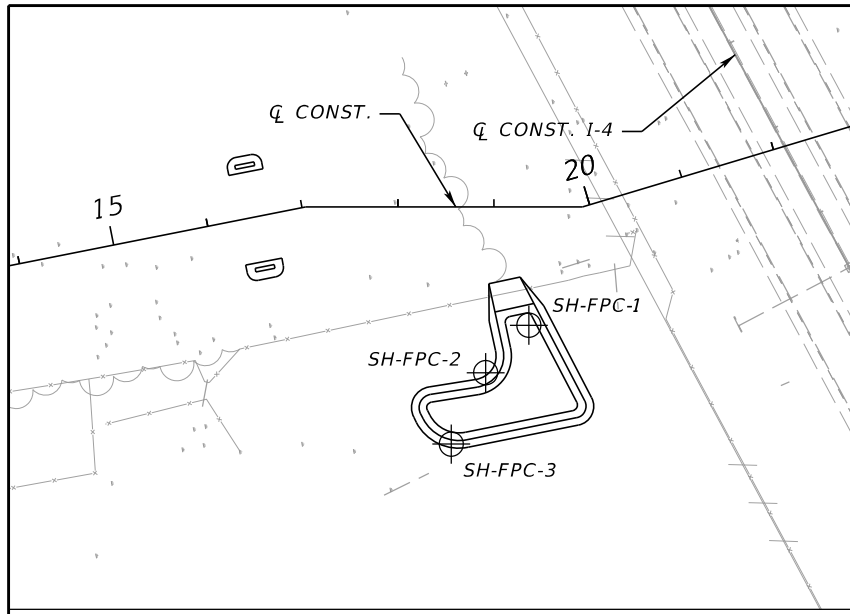
CONTACT TELEPHONE NUMBERS
 ADONIS WILLIS 407-434-4134
 KEVIN MCCAFFREY 813-620-3983 X320
 TIFFANY SCHAEFFER 843-412-0784

GENERAL NOTES:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station/Northing	Offset/Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	UAO Owner	ID'd By	Surface Type	Pavement Thickness (Inches)
10/24/16	TH2-1	4" PVC FOC	1189+01.46	89.66	139.01	3.70	135.31	32	○	↔	FDOT	24	NG	N/A
10/24/16	TH2-2	4" PVC FOC	1190+32.42	91.34	138.99	3.56	135.43	32	○	↔	FDOT	24	NG	N/A
10/31/16	TH2-3	4" PVC FOC	1386175.75	697196.55	138.75	3.26	135.49	32	○	↔	FDOT	24	NG	N/A
10/31/16	TH2-4	4" PVC FOC	1386194.06	697253.29	139.08	1.65	137.43	32	○	↔	FDOT	24	NG	N/A

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (04)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		83
						SR 400	POLK	201214-8-52-01		



NOTE: THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE PROVIDED BY THE PROJECT SURVEYOR, MCKIM AND CREED.

BORING LOCATION PLAN

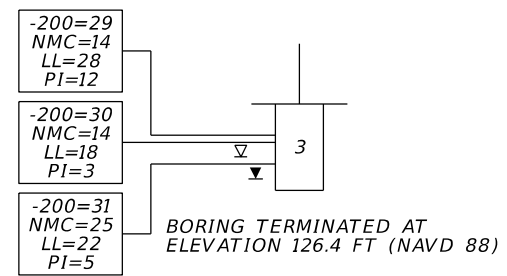
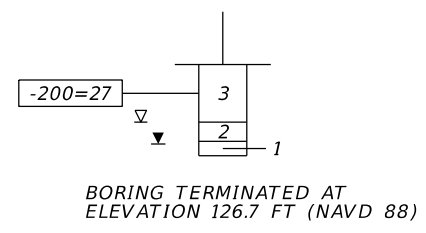
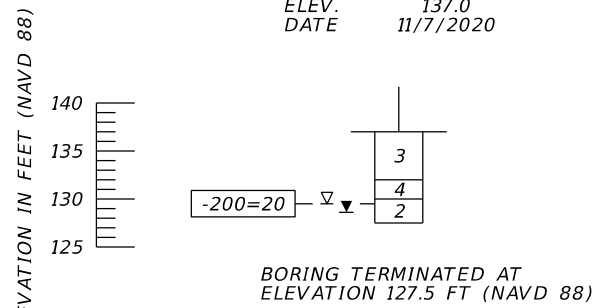
- LEGEND**
1. LIGHT GRAY TO DARK BROWN FINE SAND TO SAND WITH SILT (A-3/A-2-4)
 2. LIGHT GRAY TO DARK BROWN SILTY SAND (A-2-4)
 3. LIGHT GRAY TO BROWN TO RED SILTY SAND TO CLAYEY SAND (A-2-4/A-2-6)
 4. LIGHT GRAY TO BROWN TO RED CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
 5. LIGHT GRAY TO PALE BROWN TO PALE BLUE-GREEN TO DARK GREEN CLAYEY SAND TO CLAY (A-7-5/A-7-6)
 6. DARK BROWN TO BLACK SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
 NMC NATURAL MOISTURE CONTENT (%)
 LL LIQUID LIMIT (%)
 PI PLASTICITY INDEX (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
 - ⊙ APPROXIMATE SPT BORING LOCATION
 - ▽ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
 - ▽+ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
 - ▼ GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
 - Q CONST. CENTERLINE CONSTRUCTION WILDLIFE CROSSING
 - Q CONST. I-4 CENTERLINE CONSTRUCTION OF I-4
 - CAVE-IN BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION

PRELIMINARY
 subject to changes

BOR # SH-FPC-1
 STA. 19+36
 REF. Q CONST.
 OFF. 123' RT.
 ELEV. 137.0
 DATE 11/7/2020

BOR # SH-FPC-2
 STA. 18+91
 REF. Q CONST.
 OFF. 173' RT
 ELEV. 136.2
 DATE 11/7/2020

BOR # SH-FPC-3
 STA. 18+56
 REF. Q CONST.
 OFF. 247' RT
 ELEV. 135.4
 DATE 11/7/2020



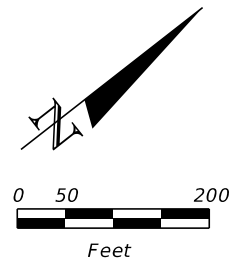
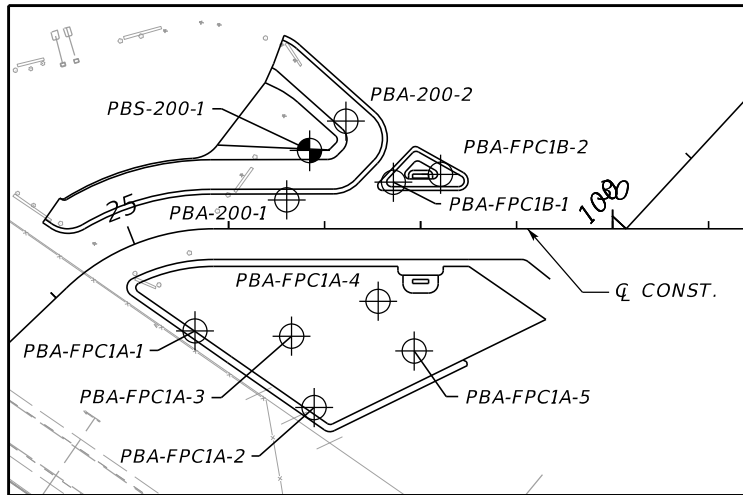
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC-2

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 84
DATE	DESCRIPTION	DATE	DESCRIPTION	LAWRENCE P. MOORE, P.E. LICENSE NUMBER: 47673 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 33	POLK	201214-8-52-01	POND SOIL SURVEY (1)			

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NOTE: THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE PROVIDED BY THE PROJECT SURVEYOR, MCKIM AND CREED.

BORING LOCATION PLAN

LEGEND

- 1. LIGHT GRAY TO DARK BROWN FINE SAND TO SAND WITH SILT (A-3/A-2-4)
 - 2. LIGHT GRAY TO DARK BROWN SILTY SAND (A-2-4)
 - 3. LIGHT GRAY TO BROWN TO RED SILTY SAND TO CLAYEY SAND (A-2-4/A-2-6)
 - 4. LIGHT GRAY TO BROWN TO RED CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
 - 5. LIGHT GRAY TO PALE BROWN TO PALE BLUE-GREEN TO DARK GREEN CLAYEY SAND TO CLAY (A-7-5/A-7-6)
 - 6. DARK BROWN TO BLACK SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
 NMC NATURAL MOISTURE CONTENT (%)
 LL LIQUID LIMIT (%)
 PI PLASTICITY INDEX (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
 - ⊙ APPROXIMATE SPT BORING LOCATION
 - ▽ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
 - ▽+ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
 - ▼ GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
 - ⊕ CONST. CENTERLINE CONSTRUCTION WILDLIFE CROSSING
 - ⊕ CONST. 1-4 CENTERLINE CONSTRUCTION OF 1-4
 - CAVE-IN BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION

PRELIMINARY
subject to changes

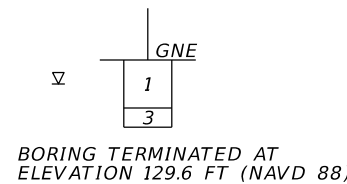
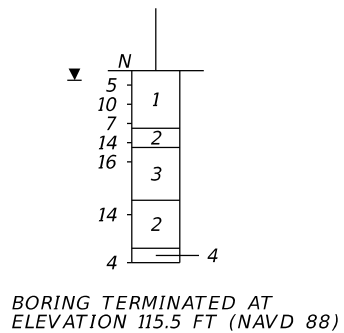
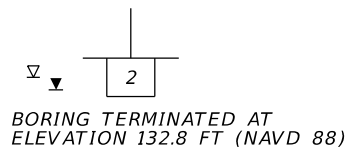
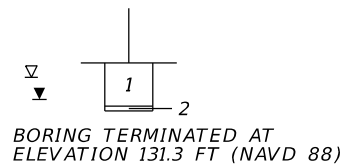
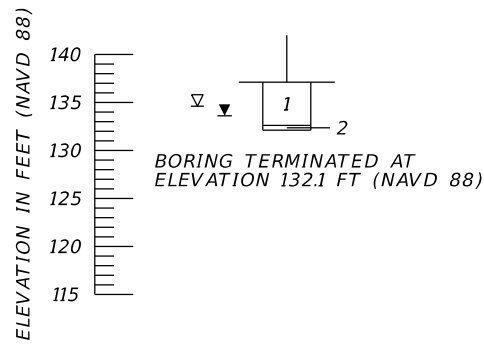
BOR # PBA-FPC1A-1
 STA. 25+47
 REF. Ⓢ CONST.
 OFF. 105' RT.
 ELEV. 137.1
 DATE 12/13/2022

BOR # PBA-200-1
 STA. 26+61
 REF. Ⓢ CONST.
 OFF. 30' LT.
 ELEV. 136.3
 DATE 12/14/2022

BOR # PBA-FPC1A-3
 STA. 26+66
 REF. Ⓢ CONST.
 OFF. 112' RT.
 ELEV. 136.8
 DATE 12/14/2022

BOR # PBS-200-1
 STA. 26+85
 REF. Ⓢ CONST.
 OFF. 82' LT.
 ELEV. 135.5
 DATE 12/16/2022
 DRILLER J. ERICKSON
 HAMMER AUTOMATIC
 RIG D-25

BOR # PBA-FPC1A-2
 STA. 26+89
 REF. Ⓢ CONST.
 OFF. 186' RT.
 ELEV. 136.6
 DATE 12/14/2022



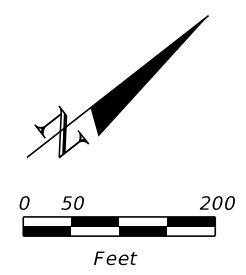
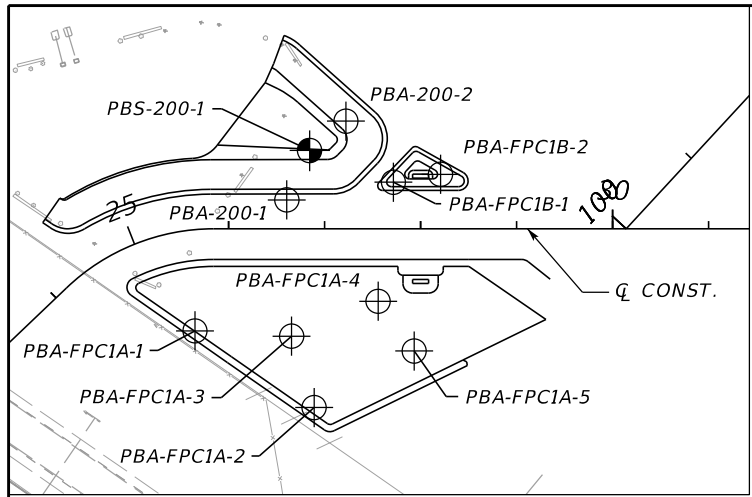
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC-1A, FPC-1B, SMF 200

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				LAWRENCE P. MOORE, P.E. LICENSE NUMBER: 47673 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637		SR 33	POLK	201214-8-52-01	85
POND SOIL SURVEY (2)									

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NOTE: THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE PROVIDED BY THE PROJECT SURVEYOR, MCKIM AND CREED.

BORING LOCATION PLAN

LEGEND

- 1. LIGHT GRAY TO DARK BROWN FINE SAND TO SAND WITH SILT (A-3/A-2-4)
- 2. LIGHT GRAY TO DARK BROWN SILTY SAND (A-2-4)
- 3. LIGHT GRAY TO BROWN TO RED SILTY SAND TO CLAYEY SAND (A-2-4/A-2-6)
- 4. LIGHT GRAY TO BROWN TO RED CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
- 5. LIGHT GRAY TO PALE BROWN TO PALE BLUE-GREEN TO DARK GREEN CLAYEY SAND TO CLAY (A-7-5/A-7-6)
- 6. DARK BROWN TO BLACK SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

- APPROXIMATE AUGER BORING LOCATION
- APPROXIMATE SPT BORING LOCATION
- ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
- GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- Q CONST. CENTERLINE CONSTRUCTION WILDLIFE CROSSING
- Q CONST. I-4 CENTERLINE CONSTRUCTION OF I-4
- CAVE-IN BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION

PRELIMINARY
subject to changes

BOR # PBA-200-2
STA. 27+22
REF. Q CONST.
OFF. 112' LT.
ELEV. 134.7
DATE 12/14/2022

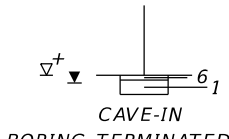
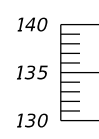
BOR # PBA-FPC1A-4
STA. 27+56
REF. Q CONST.
OFF. 75' RT.
ELEV. 136.1
DATE 12/14/2022

BOR # PBA-FPC1B-1
STA. 27+72
REF. Q CONST.
OFF. 49' LT.
ELEV. 135.3
DATE 12/14/2022

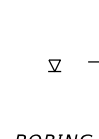
BOR # PBA-FPC1A-5
STA. 27+93
REF. Q CONST.
OFF. 127' RT.
ELEV. 136.1
DATE 12/14/2022

BOR # PBA-FPC1B-2
STA. 28+21
REF. Q CONST.
OFF. 57' LT.
ELEV. 134.8
DATE 12/14/2022

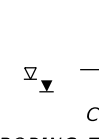
ELEVATION IN FEET (NAVD 88)



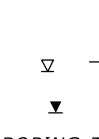
BORING TERMINATED AT ELEVATION 132.7 FT (NAVD 88)



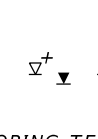
BORING TERMINATED AT ELEVATION 131.1 FT (NAVD 88)



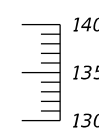
BORING TERMINATED AT ELEVATION 132.3 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 130.1 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 132.8 FT (NAVD 88)



ELEVATION IN FEET (NAVD 88)

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
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VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC-1A, FPC-1B, SMF 200

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	LAWRENCE P. MOORE, P.E. LICENSE NUMBER: 47673 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 33	POLK	201214-8-52-01	86
POND SOIL SURVEY (3)										

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