

OKALOOSA COUNTY, FLORIDA

STEELE ROAD OVER PENNY CREEK BRIDGE REPLACEMENT FINANCIAL PROJECT ID 433910-2-58-01 (FEDERAL FUNDS)

COMMISSIONERS

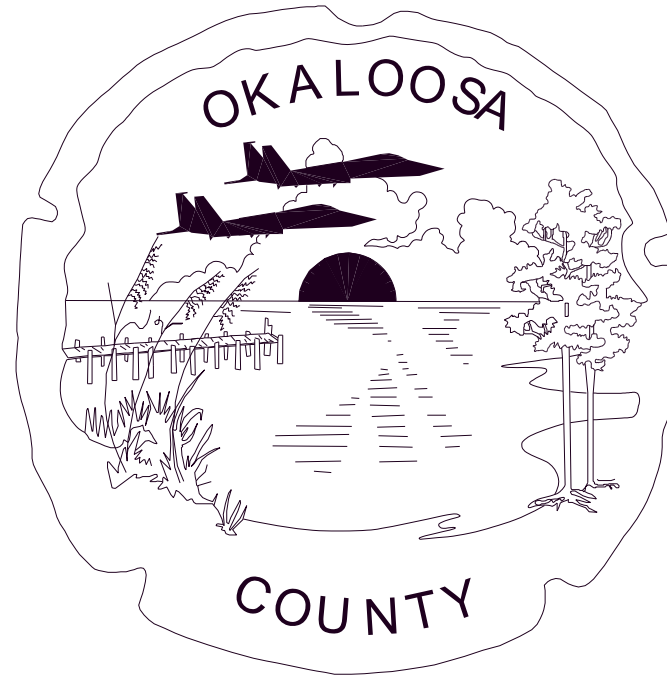
GRAHAM FOUNTAIN	DISTRICT 1
CAROLYN KETCHEL	DISTRICT 2
NATHAN BOYLES	DISTRICT 3
TREY GOODWIN	DISTRICT 4
KELLY WINDES	DISTRICT 5

COUNTY ADMINISTRATOR

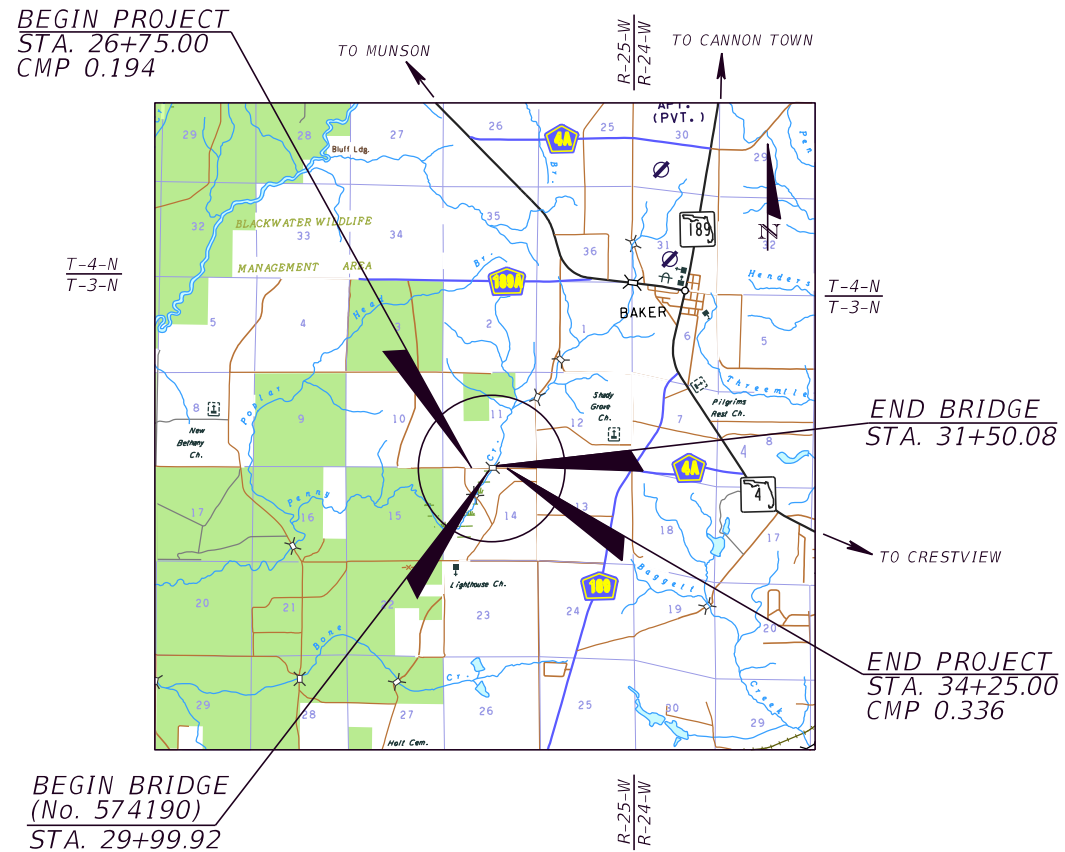
JOHN HOFSTAD

PUBLIC WORKS DIRECTOR

JASON AUTREY, P.E.



ITB PW 22-19



COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- STRUCTURE PLANS
- A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

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4-4A	SUMMARY OF PAY ITEMS
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7-8	TYPICAL SECTION
SQ-1 - SQ-4	SUMMARY OF QUANTITIES
9	SUMMARY OF DRAINAGE STRUCTURES
10	OPTIONAL MATERIALS TABULATION
11-13	PLAN
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18	ROADWAY SOIL SURVEY
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28	WETLAND IMPACTS
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31-33	UTILITY ADJUSTMENTS
34	PROJECT NETWORK CONTROL

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2018-19 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>

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

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2018 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

PLANS PREPARED BY:



JMT-JOHNSON, MIRMIRAN & THOMPSON
615 CRESCENT EXECUTIVE COURT, SUITE 106
LAKE MARY, FLORIDA 32746
PHONE 407-833-9898
CERTIFICATE OF AUTHORIZATION NO. 5917
CONTRACT No: C-9115
VENDOR No. 52-0963531

ROADWAY PLANS

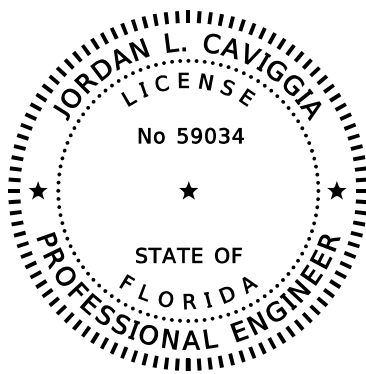
ENGINEER OF RECORD: JORDAN L. CAVIGGIA, P.E.
P.E. NO.: 68253

FDOT PROJECT MANAGER:

NIKOLE H. ARRANT, P.E.
PHONE NO.: 850-415-9001

FISCAL YEAR	SHEET NO.
19	1

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 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917
 JON D. MILLER, P.E. NO. 59034

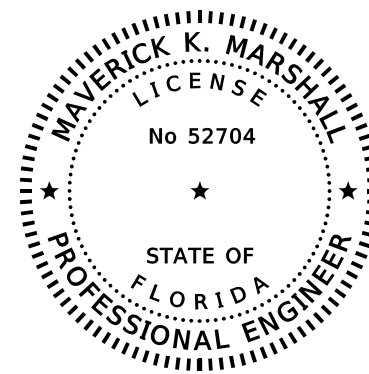
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
4-4A	SUMMARY OF PAY ITEMS
7-8	TYPICAL SECTION
SQ-1 - SQ-4	SUMMARY OF QUANTITIES
11-13	PLAN
14-16	PROFILE
19-23	CROSS SECTIONS
24-27	STORMWATER POLLUTION PREVENTION PLAN
28	WETLANDS IMPACTS
29-30	TEMPORARY TRAFFIC CONTROL PLAN
31-33	UTILITY ADJUSTMENTS

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3 - S-5	SIGNING AND PAVEMENT MARKING PLAN



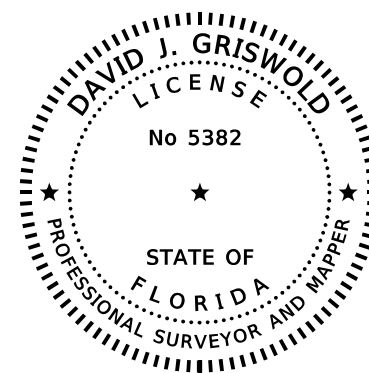
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 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917
 MAVERICK K. MARSHALL, P.E. NO. 52704

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ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
5-6	DRAINAGE MAPS
9	SUMMARY OF DRAINAGE STRUCTURES
10	OPTIONAL MATERIALS TABULATION
17	DRAINAGE STRUCTURES



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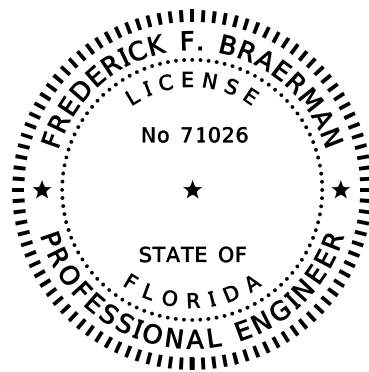
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 NOBLES CONSULTING GROUP, INC.
 1333 S. RAILROAD AVENUE
 CHIPLEY, FLORIDA 32428
 PHONE (850) 638-8833
 LB#3293 EB#7990
 DAVID J. GRISWOLD, P.S.M NO. 5382

THE ABOVE NAMED PROFESSIONAL SURVEYOR AND MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.062, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
34	PROJECT NETWORK CONTROL

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			SHEET NO. SIGNATURE SHEET 2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						OKALOOSA	433910-2-58-01	



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 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917
 FREDERICK F. BRAERMAN, P.E. NO. 71026

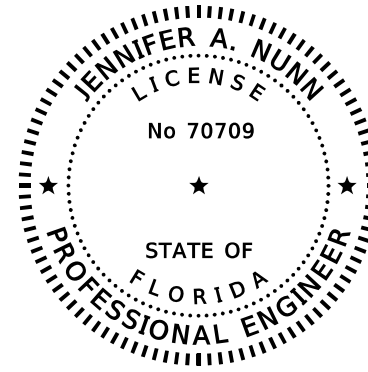
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ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
3	SIGNATURE SHEET

STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B-01	KEY SHEET
BQ1-01	SUMMARY OF STRUCTURES QUANTITIES
B-02	GENERAL NOTES (1 OF 2)
B-03	GENERAL NOTES (2 OF 2)
B-04	RUBBLE RIPRAP SLOPE PROTECTION DETAILS (1 OF 2)
B-05	RUBBLE RIPRAP SLOPE PROTECTION DETAILS (2 OF 2)
B1-01	PLAN AND ELEVATION
B1-02	BRIDGE SECTION
B1-05	FOUNDATION LAYOUT
B1-06	PILE DATA TABLE
B1-07	END BENT NO. 1
B1-08	END BENT NO. 4
B1-09	END BENT DETAILS
B1-10	INTERMEDIATE BENTS NO. 2 AND 3
B1-11	FINISH GRADE ELEVATIONS
B1-12	FRAMING PLAN
B1-13	SUPERSTRUCTURE PLAN AND SECTION
B1-14	SUPERSTRUCTURE DETAILS (1 OF 2)
B1-15	SUPERSTRUCTURE DETAILS (2 OF 2)
B1-16	FSB DATA TABLE
B1-17	REINFORCING BAR LIST
B1-18	LOAD RATING SUMMARY SHEET



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 WINTER PARK, FLORIDA 32789
 PHONE: (407) 629-2185
 CERTIFICATE OF AUTHORIZATION NO. 26123
 JENNIFER A. NUNN, P.E. NO. 70709

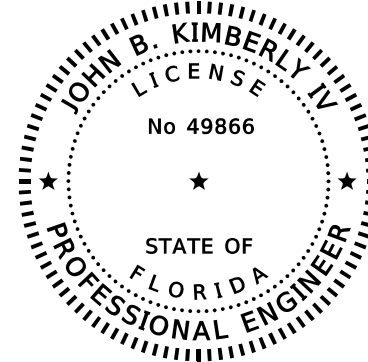
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ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
3	SIGNATURE SHEET

STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B1-03	BRIDGE HYDRAULIC RECOMMENDATIONS



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 JACKSONVILLE, FLORIDA 32257
 TERRACON
 CERTIFICATE OF AUTHORIZATION No. 8830
 JOHN B. KIMBERLY IV, P.E. NO. 49866

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
3	SIGNATURE SHEET
18	ROADWAY SOIL SURVEY

STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B1-04	REPORT OF CORE BORINGS FOR BRIDGE

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			SIGNATURE SHEET 3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OKALOOSA	433910-2-58-01		

FLORIDA DEPARTMENT OF TRANSPORTATION
 PROPOSAL SUMMARY OF PAY ITEMS
 FOR PROPOSAL: T3630

LEAD PROJECT : 433910-1-52-01 DISTRICT : 03 COUNTY/SECTION : 57000075

PROJECT(S) : 43391015201 COUNTY : OKALOOSA

0001 SUMMARY OF STRUCTURES

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43391015201	43391015201 BR# 574190	QUANTITY TOTAL
		0110- 3-	REMOVAL OF EXISTING STRUCTURES/BRIDGES 43391015201	(LS)		1.000	1.000
		0400- 2- 10	CONCRETE CLASS II, APPROACH SLABS	CY		60.200	60.200
D		0400- 2- 47	CONCRETE CLASS II, CAST-IN-PLACE TOPPING WITH SHRINKAGE REDUCING ADMIXTURE	CY		119.700	119.700
		0400- 4- 5	CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	CY		45.000	45.000
		0400- 9-	BRIDGE DECK GROOVING & PLANING, DECK 8.5" AND GREATER	SY		418.000	418.000
		0400-148-	PLAIN NEOPRENE BEARING PADS	CF		6.900	6.900
		0415- 1- 4	REINFORCING STEEL - BRIDGE SUPERSTRUCTURE	LB		26208.000	26208.000
		0415- 1- 5	REINFORCING STEEL- BRIDGE SUBSTRUCTURE	LB		5182.000	5182.000
		0415- 1- 9	REINFORCING STEEL- APPROACH SLABS	LB		12170.000	12170.000
D		0450- 8- 22	PRESTRESSED BEAM: FLORIDA SLAB BEAM, BEAM DEPTH 15", WIDTH 52-54"	LF		879.000	879.000
		0455- 34- 3	PRESTRESSED CONCRETE PILING, 18" SQ	LF		1296.000	1296.000
		0455-143- 3	TEST PILES-PRESTRESSED CONCRETE, 18" SQ	LF		390.000	390.000
		0458- 1- 11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I POURED JOINT WITH BACKER ROD	LF		106.000	106.000
		0521- 5- 13	CONCRETE TRAFFIC RAILING- BRIDGE, 36" SINGLE-SLOPE	LF		420.000	420.000
		0530- 1-	RIPRAP, SAND-CEMENT	CY		13.200	13.200
		0530- 3- 3	RIPRAP- RUBBLE, BANK AND SHORE	TN		931.600	931.600
		0530- 74-	BEDDING STONE	TN		331.800	331.800

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

OKALOOSA COUNTY
 PUBLIC WORKS

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

SUMMARY OF PAY ITEMS

SHEET NO.

4

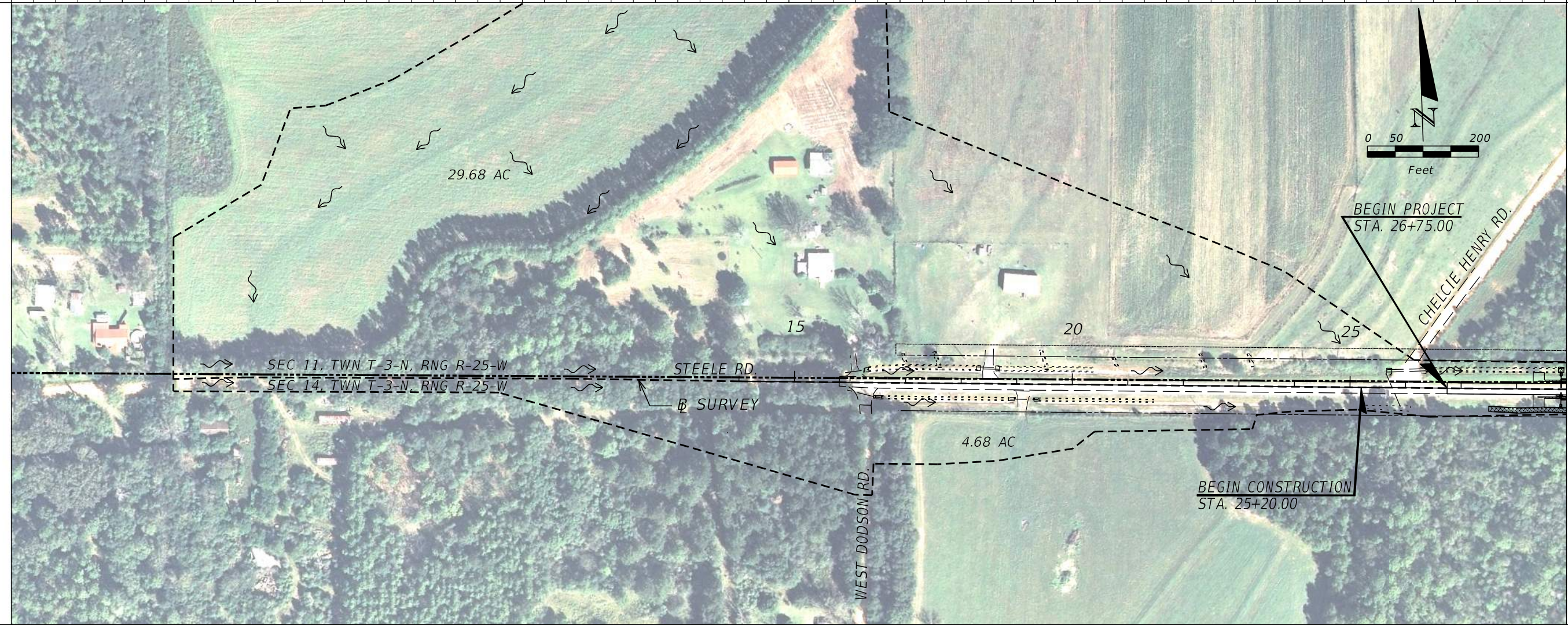
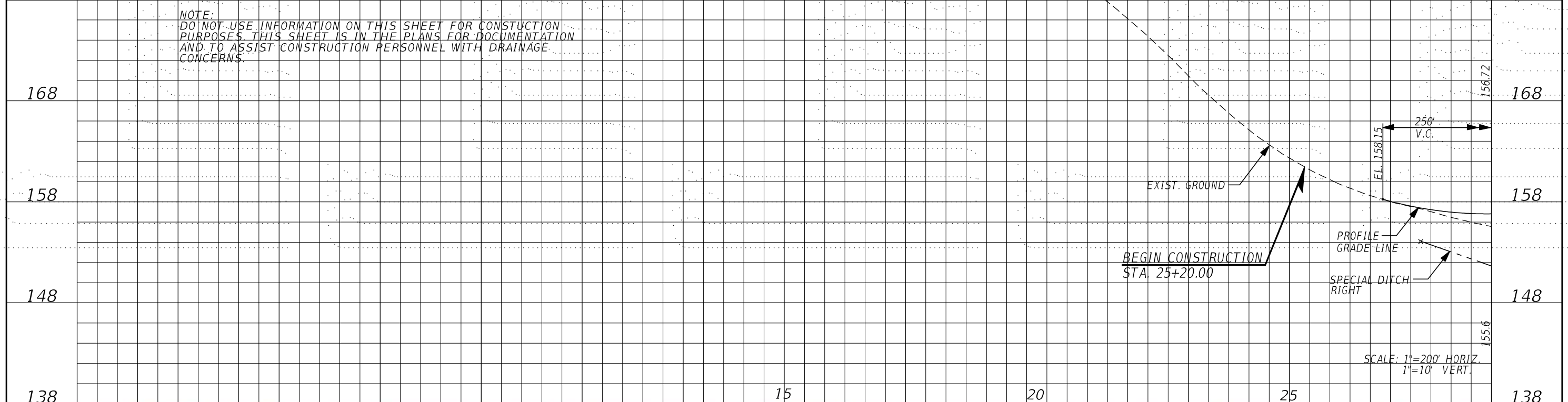
FLORIDA DEPARTMENT OF TRANSPORTATION PROPOSAL SUMMARY OF PAY ITEMS FOR PROPOSAL: T3630						
LEAD PROJECT : 433910-1-52-01		DISTRICT : 03		COUNTY/SECTION : 57000075		
PROJECT(S) : 43391015201		COUNTY : OKALOOSA				
0002 SUMMARY OF ROADWAY						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43391015201	QUANTITY TOTAL
		0101- 1-	MOBILIZATION 43391015201	LS	1.000	1.000
		0102- 1-	MAINTENANCE OF TRAFFIC 43391015201	(LS)	1.000	1.000
		0102- 60-	WORK ZONE SIGN	ED	3630.000	3630.000
		0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	2864.000	2864.000
		0102- 74- 2	CHANNELIZING DEVICE, TYPE III, 6'	ED	825.000	825.000
		0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	716.000	716.000
		0104- 10- 3	SEDIMENT BARRIER	LF	1597.000	1597.000
		0104- 11-	FLOATING TURBIDITY BARRIER	LF	158.000	158.000
		0104- 12-	STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC	LF	158.000	158.000
		0104- 18-	INLET PROTECTION SYSTEM	EA	2.000	2.000
		0110- 1- 1	CLEARING & GRUBBING 43391015201	(LS)	1.000	1.000
		0120- 1-	REGULAR EXCAVATION	CY	2881.000	2881.000
		0120- 4-	SUBSOIL EXCAVATION	CY	69.000	69.000
		0120- 6-	EMBANKMENT	CY	748.000	748.000
		0160- 4-	TYPE B STABILIZATION	SY	2039.000	2039.000
		0285-706-	OPTIONAL BASE, BASE GROUP 06	SY	1449.000	1449.000
		0334- 1- 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	150.000	150.000
		0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	TN	41.000	41.000
		0425- 1-701	INLETS, GUTTER, TYPE S, <10'	EA	2.000	2.000
		0430-175-118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	26.000	26.000
		0430-611-225	U-ENDWALL WITH BAFFLES, STD 261, 1:3 SLOPE, 18"PIPE	EA	1.000	1.000
		0430-611-325	U-ENDWALL WITH BAFFLES, STD 261, 1:2 SLOPE, 18"PIPE	EA	1.000	1.000
		0520- 6-	SHOULDER GUTTER- CONCRETE	LF	185.000	185.000
		0524- 1- 29	CONCRETE DITCH PAVEMENT, 4", REINFORCED	SY	908.000	908.000
		0536- 1- 0	GUARDRAIL -ROADWAY, GENERAL/LOW SPEED TL-2	LF	436.000	436.000
		0536- 8- 11	APPROACH TRANSITION TO RIGID BARRIER CONNECTION, FURNISH & INSTALL	EA	4.000	4.000
		0536- 85- 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	4.000	4.000
		0570- 1- 2	PERFORMANCE TURF, SOD	SY	4142.000	4142.000

FLORIDA DEPARTMENT OF TRANSPORTATION PROPOSAL SUMMARY OF PAY ITEMS FOR PROPOSAL: T3630						
LEAD PROJECT : 433910-1-52-01		DISTRICT : 03		COUNTY/SECTION : 57000075		
PROJECT(S) : 43391015201		COUNTY : OKALOOSA				
0003 SUMMARY OF SIGNING						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43391015201	QUANTITY TOTAL
		0700- 1- 60	SINGLE POST SIGN, REMOVE	AS	3.000	3.000
		0710- 90-	PAINTED PAVEMENT MARKINGS, FINAL SURFACE 43391015201	LS	1.000	1.000
		0711- 16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.227	0.227
		0711- 16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.227	0.227
		0713-103-101	PERMANENT TAPE, WHITE, SOLID, 6" FOR CONCRETE BRIDGES	GM	0.057	0.057
		0713-103-201	PERMANENT TAPE, YELLOW, SOLID, 6" FOR CONCRETE BRIDGES	GM	0.057	0.057

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917		OKALOOSA COUNTY PUBLIC WORKS ROAD NO. COUNTY FINANCIAL PROJECT ID OKALOOSA 433910-2-58-01		SHEET NO. 4A	
REVISIONS																					
DATE	DESCRIPTION	DATE	DESCRIPTION																		
SUMMARY OF PAY ITEMS																					

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MAVERICK K. MARSHALL, P.E. (No. 52704)
JMT-JOHNSON, MIRMIRAN & THOMPSON
615 CRESCENT EXECUTIVE COURT,
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LAKE MARY, FL 32746
PHONE 407-833-9898
CERTIFICATE OF AUTHORIZATION No.: 5917

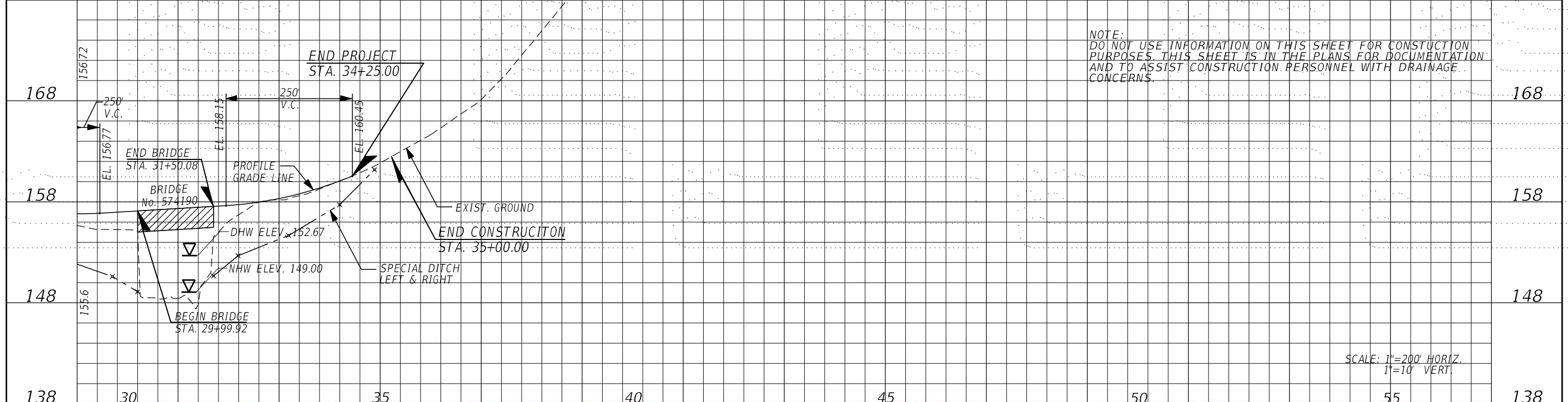
OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

DRAINAGE MAP

SHEET NO.
5

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SCALE: 1"=200' HORIZ.
1"=10' VERT.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

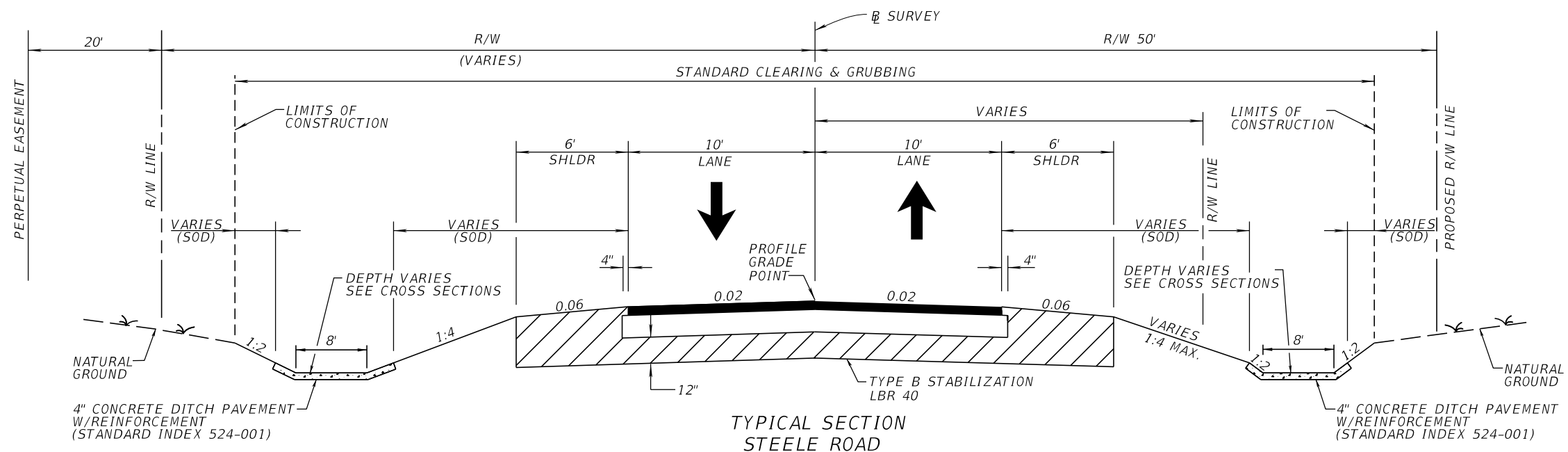
MAVERICK K. MARSHALL, P.E. (No. 52704)
JMT-JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
PHONE 407-833-9898
CERTIFICATE OF AUTHORIZATION No.: 5917

OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

DRAINAGE MAP

SHEET NO.
6

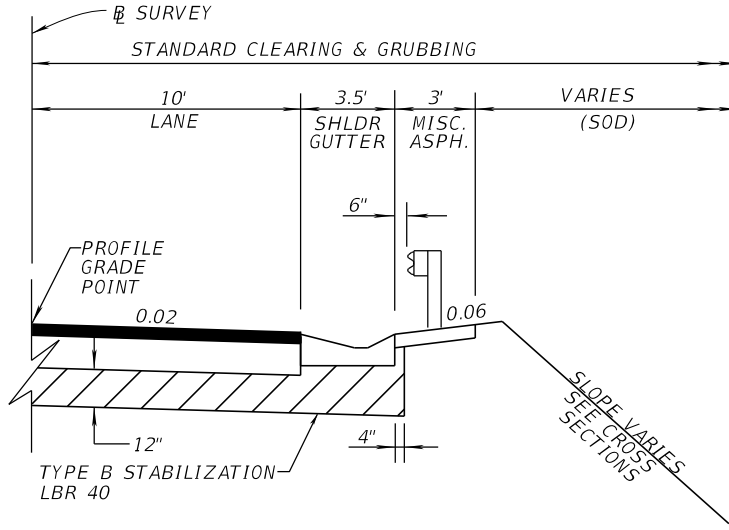
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TYPICAL SECTION
STEELE ROAD

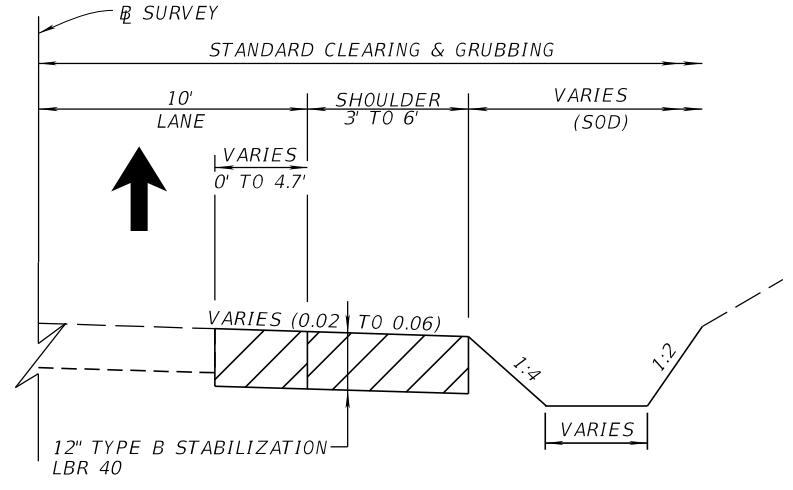
STA. 26+75.00 TO STA. 29+99.92 *
STA. 31+50.08 TO STA. 34+25.00 *
NEW CONSTRUCTION
OPTIONAL BASE GROUP 6 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")

* INCLUDES APPROACH SLABS
NOTE:
SEE SHOULDER DETAILS FOR GUARDRAIL LIMITS



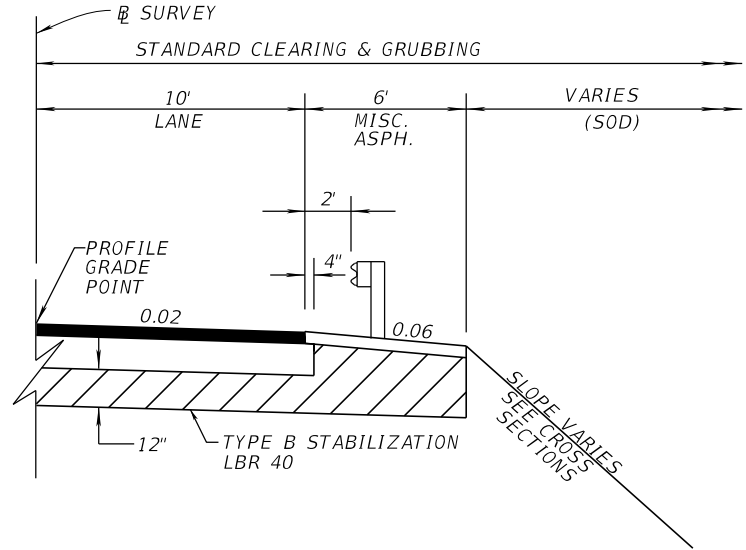
SHOULDER DETAIL

STA. 28+72.33 TO STA. 29+69.92 (LT & RT)



WIDENING DETAIL

STA. 34+25.00 TO STA. 35+00.00 RT



SHOULDER DETAIL

STA. 31+80.08 TO STA. 32+53.87 (LT & RT)

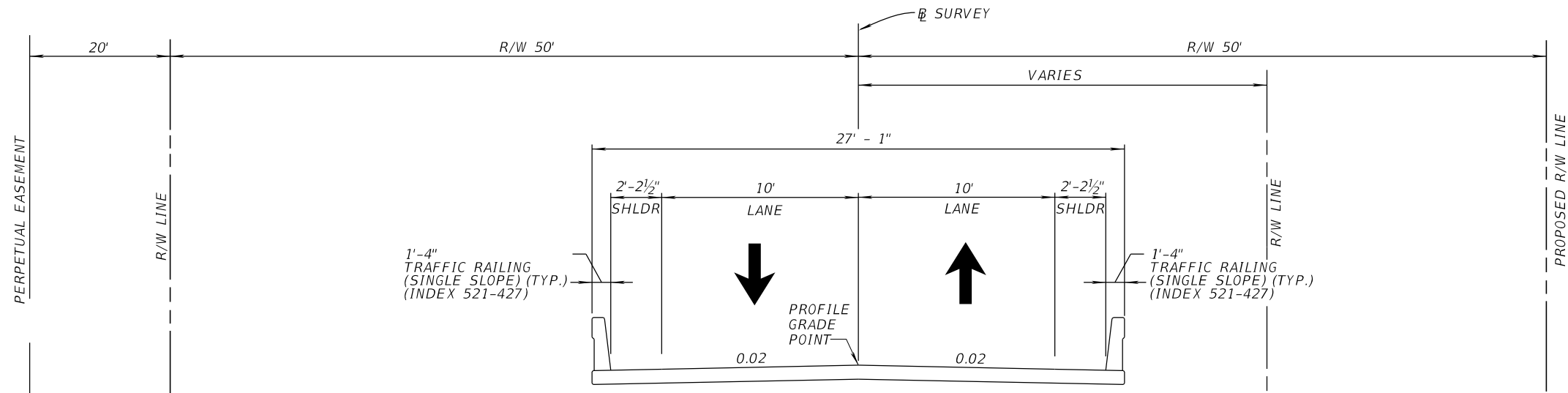
TRAFFIC DATA

CURRENT YEAR = 2015 AADT = <250
ESTIMATED OPENING YEAR = 2019 AADT = <250
ESTIMATED DESIGN YEAR = 2039 AADT = <250
K = N/A% D = N/A% T = N/A% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OKALOOSA	433910-2-58-01		

TYPICAL SECTION

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



BRIDGE TYPICAL SECTION
STA. 29+99.92 TO STA. 31+50.08

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = <250
 ESTIMATED OPENING YEAR = 2019 AADT = <250
 ESTIMATED DESIGN YEAR = 2039 AADT = <250
 K = N/A% D = N/A% T = N/A% (24 HOUR)
 DESIGN SPEED = 35 MPH
 POSTED SPEED = 30 MPH

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			TYPICAL SECTION	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OKALOOSA	433910-2-58-01			

PAY ITEM NOTES:

110-1-1

INCLUDES FURNISHING EQUIPMENT AND LABOR NECESSARY TO DESILT THE DITCH, AND ALSO INCLUDES DISPOSING OF ALL SILT AND DEBRIS REMOVED DURING THE DESILTING OPERATION.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101-1	MOBILIZATION	1			

SUMMARY OF TRAFFIC CONTROL PLAN ITEMS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P				
102-1	MAINTENANCE OF TRAFFIC	LS/DA	165			1			
0102- 60-	WORK ZONE SIGN	ED	165	22	3630	3630			
0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	179	16	2864	2864		14 DAYS PRIOR TO CONST.	
0102- 74- 2	CHANNELIZING DEVICE, TYPE III, 6'	ED	165	5	825	825			
0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	179	4	716	716		14 DAYS PRIOR TO CONST.	

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES													
LOCATION			SIDE	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		STAKED TURBIDITY BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.				104 10 3		104 11		104 12		104 18			
				LF		LF		LF		EA			
			P	F	P	F	P	F	P	F			
26+75.00	TO	31+00.00	LT/RT	877.0									
31+36.70	TO	33+00.00	LT/RT	540.0									
28+00.00			LT/RT	40.0									
28+80.00			LT/RT	60.0									
32+00.00			LT/RT	40.0									
33+00.00			LT/RT	40.0									
28+80.00			RT						1				
28+80.00			LT						1				
31+00.00			LT/RT			65.0		65.0					
31+25.70			LT/RT			93.0		93.0					
PLAN TOTAL:				1597		158		158		2			
FINAL TOTAL:													

SUMMARY OF REMOVAL ITEMS															
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH FT	WIDTH FT	UNITS	SECONDARY UNITS (IF LUMP SUM)			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.							AREA			P	F		
		LENGTH	WIDTH						AC						
110-1-1	CLEARING & GRUBBING	26+75.00	TO 31+00.00	LT/RT	101	425.00	70.52	LS	425.00	70.20	0.68	1		1.42 AC	
		31+25.70	TO 35+00.00	LT/RT	102	374.3	85.69	LS	374.3	85.60	0.74				

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			SUMMARY OF QUANTITIES SQ-1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						OKALOOSA	433910-2-58-01	

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

SUMMARY OF DESILTING DITCH									
LOCATION			SIDE	LENGTH	WIDTH	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.						SY			
	TO		P	F					
26+40.00	TO	29+76.60	LT	336.6	8.0	299.2			
26+40.00	TO	27+50.00	RT	110.0	8.0	97.8			
PLAN TOTAL:						397			
FINAL TOTAL:									

NOTE: SEE PAY ITEM NOTE 110-1-1

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120-1	REGULAR EXCAVATION	2881			
120-4	SUBSOIL EXCAVATION	69			
120-6	EMBANKMENT	748			

SUMMARY OF PAVEMENT															
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION			SIDE	AREA ID	LENGTH	WIDTH (AVG)	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.								P	F	P	F		
			TO												
160-4	TYPE B STABILIZATION	26+75.00	TO	29+99.92	LT/RT	103	324.9	30.2	SY	1088.5		2039			
	TYPE B STABILIZATION	31+50.08	TO	34+25.00	LT/RT	104	274.9	31.1	SY	950.9					
285-706	OPTIONAL BASE GROUP 6	26+75.00	TO	29+99.92	LT/RT	105	324.9	20.8	SY	749.8		1449			
	OPTIONAL BASE GROUP 6	31+50.08	TO	34+25.00	LT/RT	106	274.9	21.0	SY	642.1					
	OPTIONAL BASE GROUP 6	34+25.00	TO	35+00.00	RT	106A	75.0	6.9	SY	57.1					
334-1-12	SP STRUCTURAL COURSE (TRAFFIC B) (2")	29+69.92	TO	29+99.92	LT/RT	108	30.0	24.0	TN	8.8		150			
	SP STRUCTURAL COURSE (TRAFFIC B) (2")	31+50.08	TO	31+80.08	LT/RT	109	30.0	24.0	TN	8.8					
	SP STRUCTURAL COURSE (TRAFFIC B) (2")	26+75.00	TO	29+69.92	LT/RT	110	294.9	20.0	TN	72.1					
	SP STRUCTURAL COURSE (TRAFFIC B) (2")	31+80.08	TO	34+25.00	LT/RT	111	244.9	20.0	TN	59.9					

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			SUMMARY OF QUANTITIES SHEET NO. SQ-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						OKALOOSA	433910-2-58-01	

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

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT

LOCATION			SIDE	AREA ID	LENGTH FT	WIDTH FT	UNDER GUARDRAIL		DESIGN NOTES	CONSTRUCTION REMARKS	
STA. TO STA.							THICK (IN)	339 1 (TN)			
								P			F
28+29.88	TO	29+69.92	LT	112	140.0	6.2	2	9.7			
28+29.88	TO	29+69.92	RT	113	140.0	6.6	2	10.3			
31+80.08	TO	32+76.98	LT	114	96.9	9.3	2	10.0			
31+80.08	TO	32+76.98	RT	115	96.9	10.2	2	11.0			
SUB-TOTAL:								41.0			
PLAN TOTAL:								41.0			
FINAL TOTAL:											

SUMMARY OF CONCRETE SHOULDER GUTTER

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION			SIDE	UNIT	QUANTITY (LF)				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.					GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
								TYPE	LENGTH	P	F				
520-6	CONCRETE SHOULDER GUTTER	28+72.33	TO	29+69.92	LT	LF	97.59	S	5.33	92.3		185			
		28+72.33	TO	29+69.92	RT	LF	97.59	S	5.33	92.3					

SUMMARY OF DITCH PAVEMENT

LOCATION			SIDE	LENGTH FT	WIDTH FT	DITCH PAVEMENT		DESIGN NOTES	CONSTRUCTION REMARKS	
STA. TO STA.						524	1			29
						SY				
27+50.00	TO	29+85.00	RT	235.0	10.0	261.11				
28+75.00	TO	28+85.00	LT	10.0	10.0	11.11				
29+72.15	TO	29+85.05	LT	12.9	10.0	14.33				
31+65.00	TO	34+25.00	RT	260.0	10.5	303.33				
31+65.00	TO	34+25.00	LT	260.0	11.0	317.78		BROOM FINISH STA 32+00 TO STA 33+00		
PLAN TOTAL:						908				
FINAL TOTAL:										

SUMMARY OF GUARDRAIL

LOCATION			SIDE	GUARDRAIL		BRIDGE ANCHORAGE ASSEMBLY		END ANCHORAGE ASSEMBLY		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.				536 1 0		536 8 11		536 85 24			
				LF		EA		EA			
				P	F	P	F	P	F		
28+39.88	TO	29+70.52	RT	130.64		1		1			
28+39.88	TO	29+70.52	LT	130.64		1		1			
31+79.48	TO	32+66.98	RT	87.50		1		1			
31+79.48	TO	32+66.98	LT	87.50		1		1			
SUB-TOTAL:				436		4		4			
PLAN TOTAL:				436		4		4			
FINAL TOTAL:											

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

**OKALOOSA COUNTY
PUBLIC WORKS**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

SUMMARY OF QUANTITIES

SHEET NO.

SQ-3

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

SUMMARY OF PERFORMANCE TURF

LOCATION			SIDE	AREA ID	LENGTH FT	WIDTH (AVG) FT	PERFORMANCE TURF (SOD)			DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.							570	1	2		
26+75.00	TO	31+00.00	RT	116	425.0	28.1	1326.9				
26+75.00	TO	28+29.96	LT	117	155.0	10.8	185.1				
28+49.96	TO	29+85.00	LT	118	135.0	16.6	249.1				
31+65.00	TO	35+00.00	RT	119	335.0	32.7	1215.3				
31+65.00	TO	35+00.00	LT	120	335.0	31.3	1165.8				
SUB-TOTAL:							4142				
PLAN TOTAL:							4142				
FINAL TOTAL:											

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p>JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917</p>	<p align="center">OKALOOSA COUNTY PUBLIC WORKS</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td> </td> <td>OKALOOSA</td> <td>433910-2-58-01</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		OKALOOSA	433910-2-58-01	<p align="center">SUMMARY OF QUANTITIES</p>	<p>SHEET NO. SQ-4</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																			
	OKALOOSA	433910-2-58-01																			

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SUMMARY OF DRAINAGE STRUCTURES

Q T Y	STR. NO.	STATION	DESCRIPTION	SIDE	B R L S	SIZE (IN.)	LENGTH (LF)	PIPE	GUTTER INLET <10'	U TYPE ENDWALL (W BAFFLES)		REMARKS
								18"	TYPE S	1:3	1:2	
P	S-1	28+80.00	UEW	LT	1	18					1	
F												
P	S-2	28+80.00	INLET, PIPE	LT	1	18	12	12	1			
F												
P	S-3	28+80.00	INLET, PIPE	RT	1	18	14	14	1			
F												
P	S-4	28+80.00	UEW	RT	1	18				1		
P												
F												
TOTAL			PLAN QUANTITIES					26	2	1	1	
			FINAL QUANTITIES									

REVISIONS				MAVERICK K. MARSHALL, P.E. (No. 52704) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			SUMMARY OF DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		9
						OKALOOSA	433910-2-58-01		

STRUCTURE	SIZE (Inches)	MATERIAL	PLOTTED	AS BUILT	REMARKS
S-2, S-3	18"	NRCP			
		RCP	X		
		CAP 12 GA			
		SRASP 14 GA			
		CASP 14 GA			
		HDPE CL II			
		PP			
		PVC ASTM F-949			

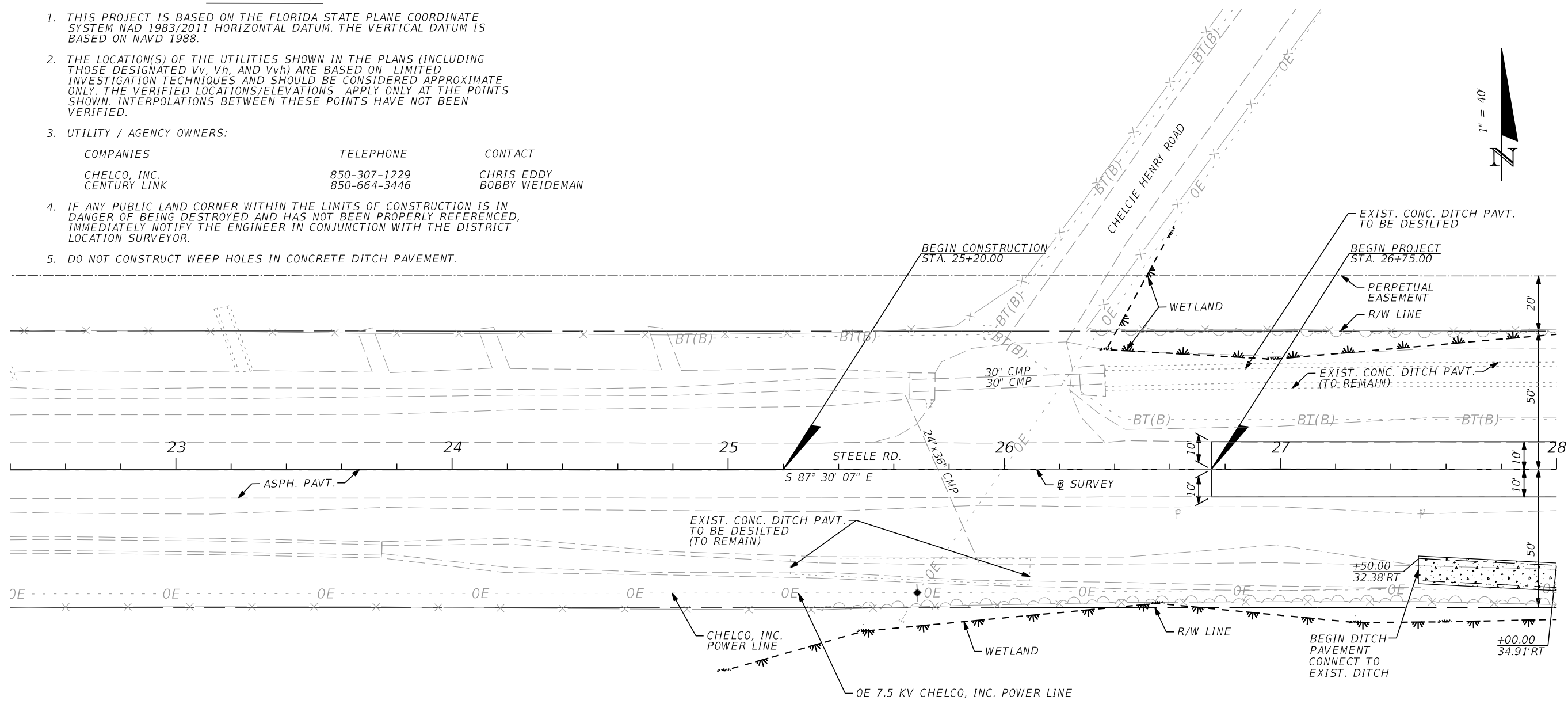
REVISIONS				MAVERICK K. MARSHALL, P.E. (No. 52704) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			OPTIONAL MATERIALS TABULATION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						OKALOOSA	433910-2-58-01		10

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

PROJECT NOTES:

1. THIS PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM NAD 1983/2011 HORIZONTAL DATUM. THE VERTICAL DATUM IS BASED ON NAVD 1988.
2. 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.
3. UTILITY / AGENCY OWNERS:

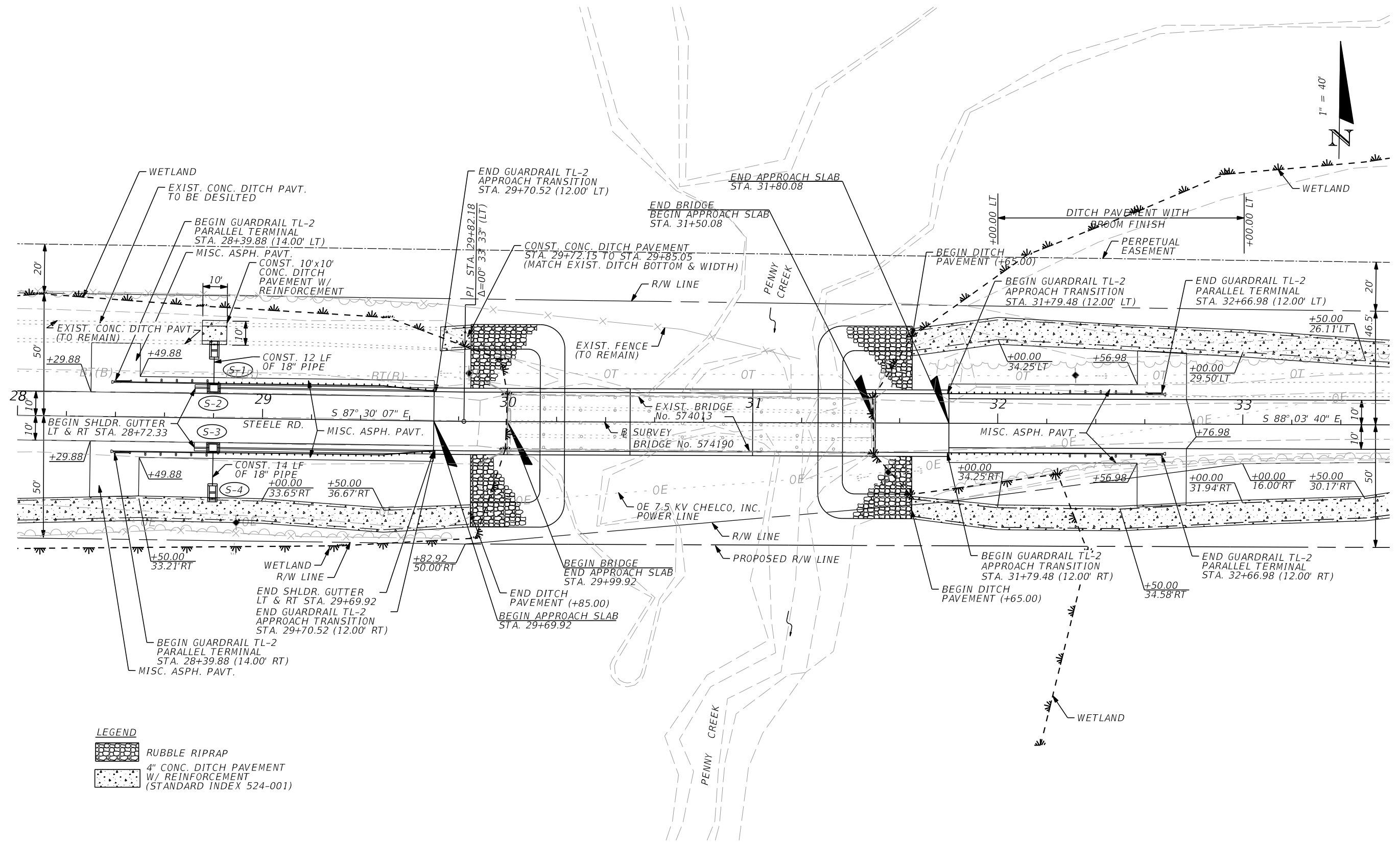
COMPANIES	TELEPHONE	CONTACT
CHELCO, INC.	850-307-1229	CHRIS EDDY
CENTURY LINK	850-664-3446	BOBBY WEIDEMAN
4. IF ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, IMMEDIATELY NOTIFY THE ENGINEER IN CONJUNCTION WITH THE DISTRICT LOCATION SURVEYOR.
5. DO NOT CONSTRUCT WEEP HOLES IN CONCRETE DITCH PAVEMENT.



LEGEND
 4" CONC. DITCH PAVEMENT W/ REINFORCEMENT (STANDARD INDEX 524-001)

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OKALOOSA	433910-2-58-01		

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LEGEND

	RUBBLE RIPRAP
	4" CONC. DITCH PAVEMENT W/ REINFORCEMENT (STANDARD INDEX 524-001)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

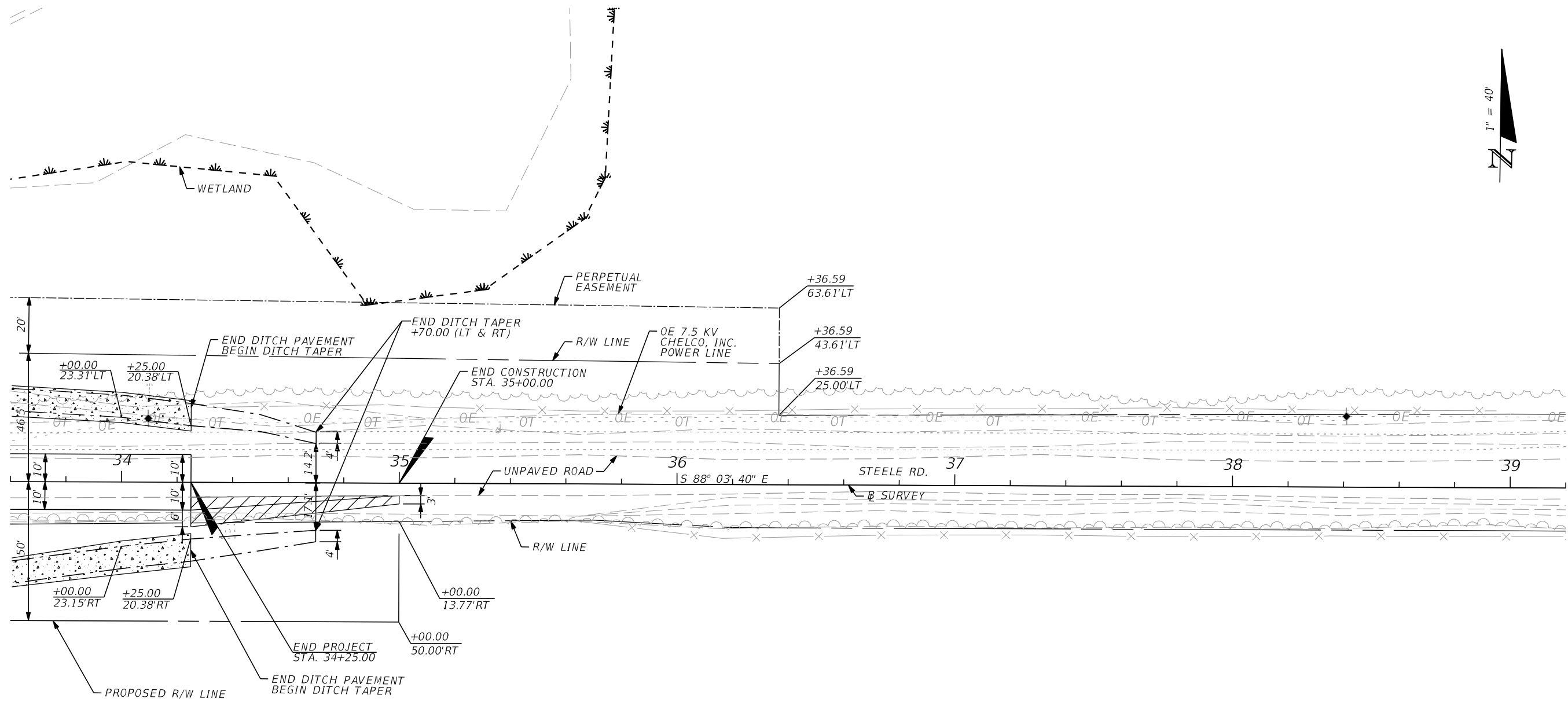
JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

PLAN

SHEET NO.
12

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

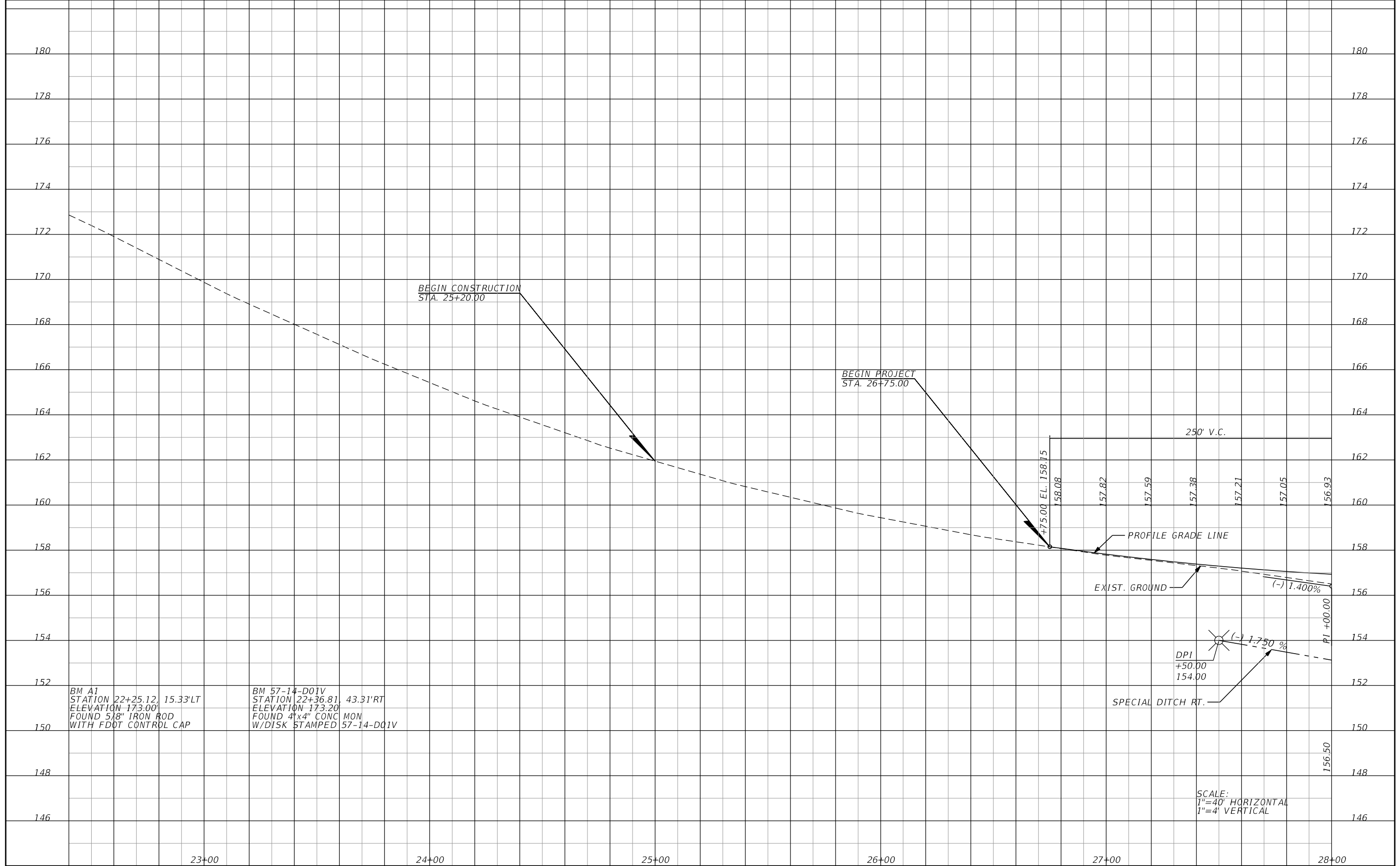


LEGEND

-  4" CONC. DITCH PAVEMENT
W/ REINFORCEMENT
(STANDARD INDEX 524-001)
-  OPTIONAL BASE GROUP 6

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			PLAN SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						OKALOOSA	433910-2-58-01	

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



BM A1 STATION 22+25.12, 15.33'LT ELEVATION 173.00' FOUND 5/8" IRON ROD WITH FDOT CONTRDL CAP	BM 57-14-D01V STATION 22+36.81, 43.31'RT ELEVATION 173.20' FOUND 4"x4" CONC MON W/DISK STAMPED 57-14-D01V
--	---

SCALE:
 1"=40' HORIZONTAL
 1"=4' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

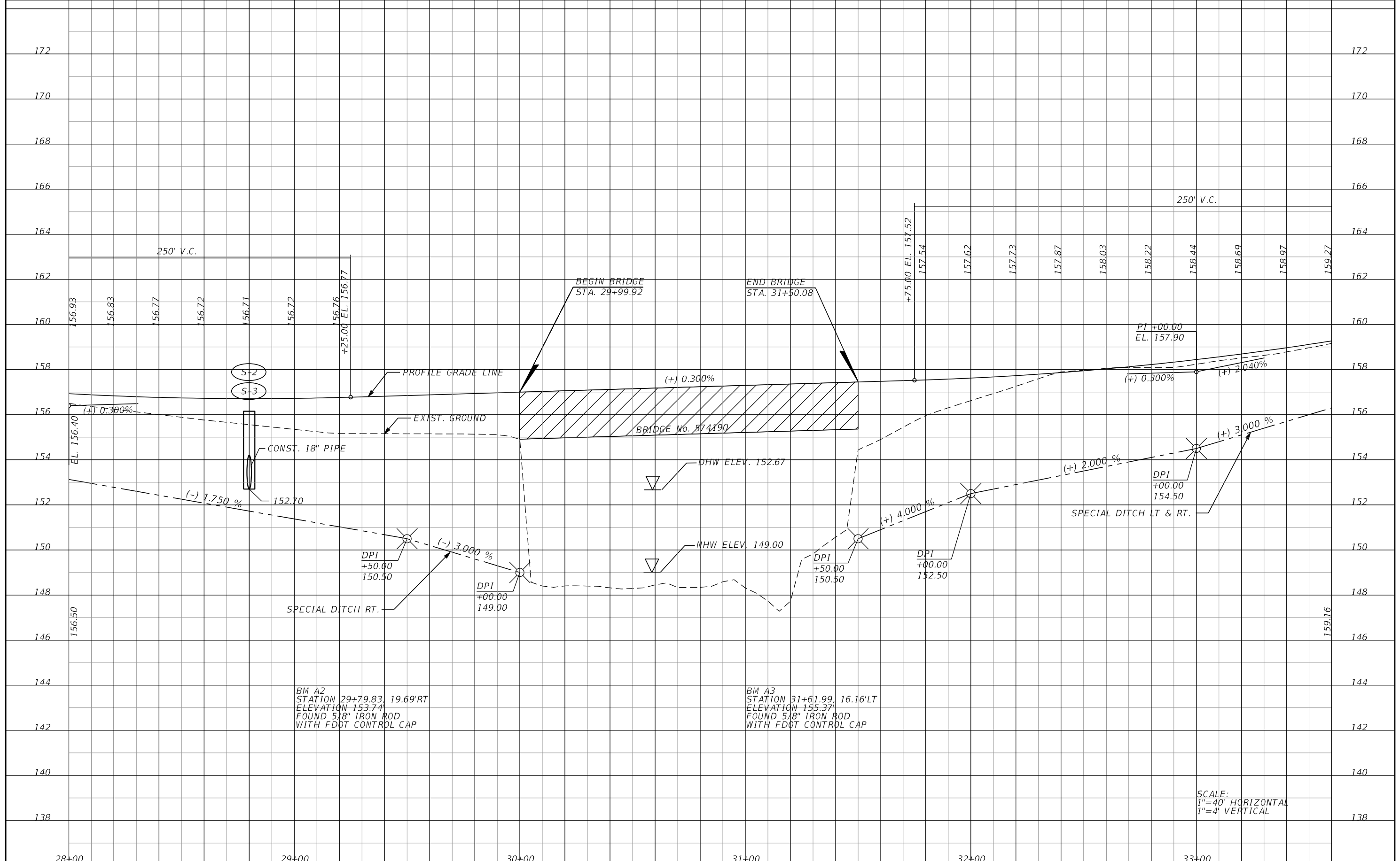
JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
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OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

PROFILE

SHEET
NO.
14

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



SCALE:
 1"=40' HORIZONTAL
 1"=4' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

PROFILE

SHEET
NO.
15

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



BM A4
 STATION 39+71.32 29.67'LT
 ELEVATION 190.98'
 FOUND 5/8" IRON ROD
 WITH FDOT CONTROL CAP

BM 57-14-D02V
 STATION 39+74.15 35.00'LT
 ELEVATION 191.48'
 FOUND 4"x4" CONC MON
 W/DISK STAMPED 57-14-D02V

SCALE:
 1"=40' HORIZONTAL
 1"=4' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

PROFILE

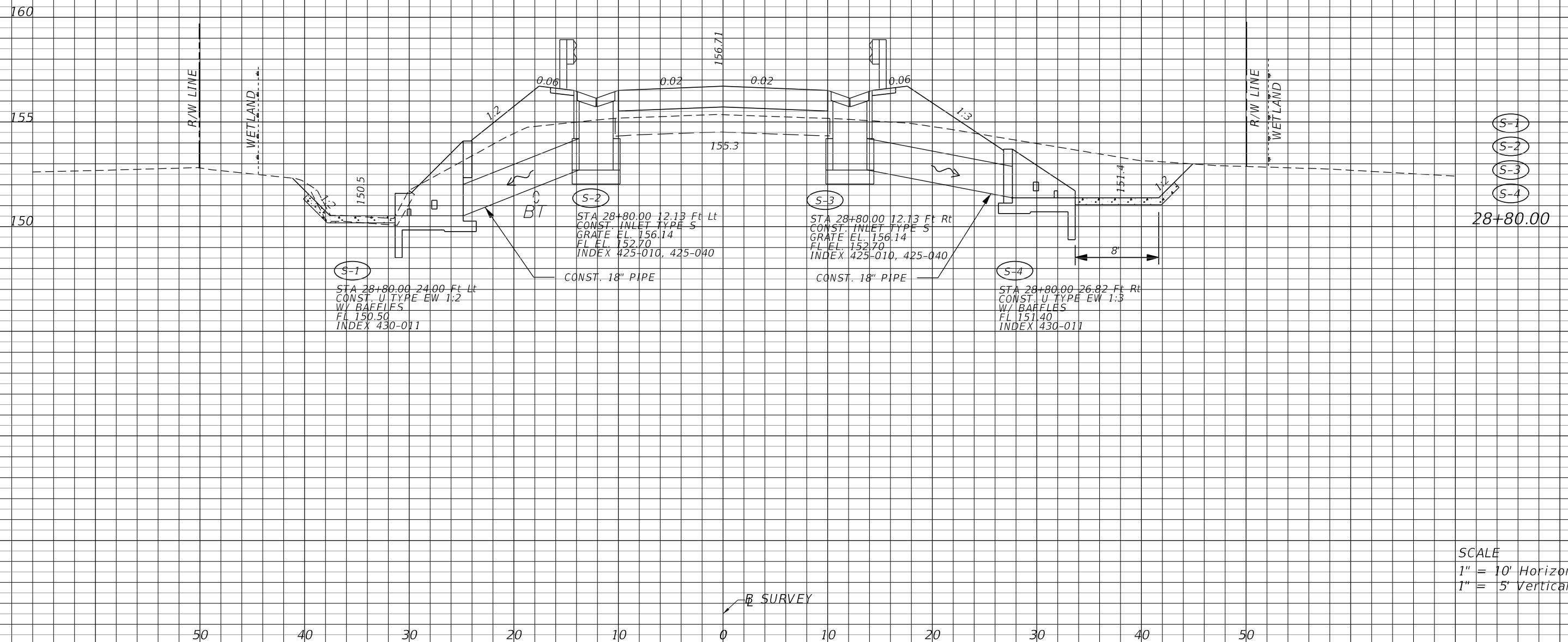
SHEET NO.
16

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

NOTES:

1. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
2. ALL DRAINAGE PIPES HAVE OPTIONAL MATERIALS. THE OPTIONAL MATERIALS TABULATION SHEET SHOWS ALL MATERIALS ALLOWED AND INDICATES WHICH MATERIAL IS PLOTTED IN THE PLANS AND USED AS THE BASIS FOR PAY QUANTITIES.

Ⓟ SURVEY



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

Ⓟ SURVEY

REVISIONS		REVISIONS		MAVERICK K. MARSHALL, P.E. (No. 52704) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS			SHEET NO. 17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OKALOOSA	433910-2-58-01	DRAINAGE STRUCTURES	

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY: OCTOBER 2015
SURVEY MADE BY: TERRACON CONSULTANTS, INC.
SUBMITTED BY: JOHN B. KIMBERLY IV, P.E.

FINANCIAL PROJECT NO.: 433910-2-58-01

DISTRICT: THREE
ROAD NO.: -
COUNTY: OKALOOSA

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA.: 26+75 SURVEY ENDS STA.: 34+25

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)			MATERIAL DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX		AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDES ppm	SULFATES ppm	pH
1	-	-	2	19-25	2	100	77-83	32-46	10-20	7	-	-	-	A-3	GRAY TO BROWN TO ORANGE FINE SAND TO FINE SAND WITH SILT OR CLAY, OCCASIONALLY WITH ROCK FRAGMENTS	1	21,000	240	65	5.1
2	-	-	1	18	1	98	83	61	39	23	-	-	-	A-2-4	GRAY TO BROWN TO ORANGE FINE SAND WITH SILT TO SILTY FINE SAND WITH CLAY	-	-	-	-	-
3	-	-	6	12-41	6	97-100	82-93	68-87	55-80	37-67	5	23-39	8-18	A-4 A-6	ORANGE TO ORANGE-BROWN VERY CLAYEY FINE SAND TO SANDY CLAY	-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

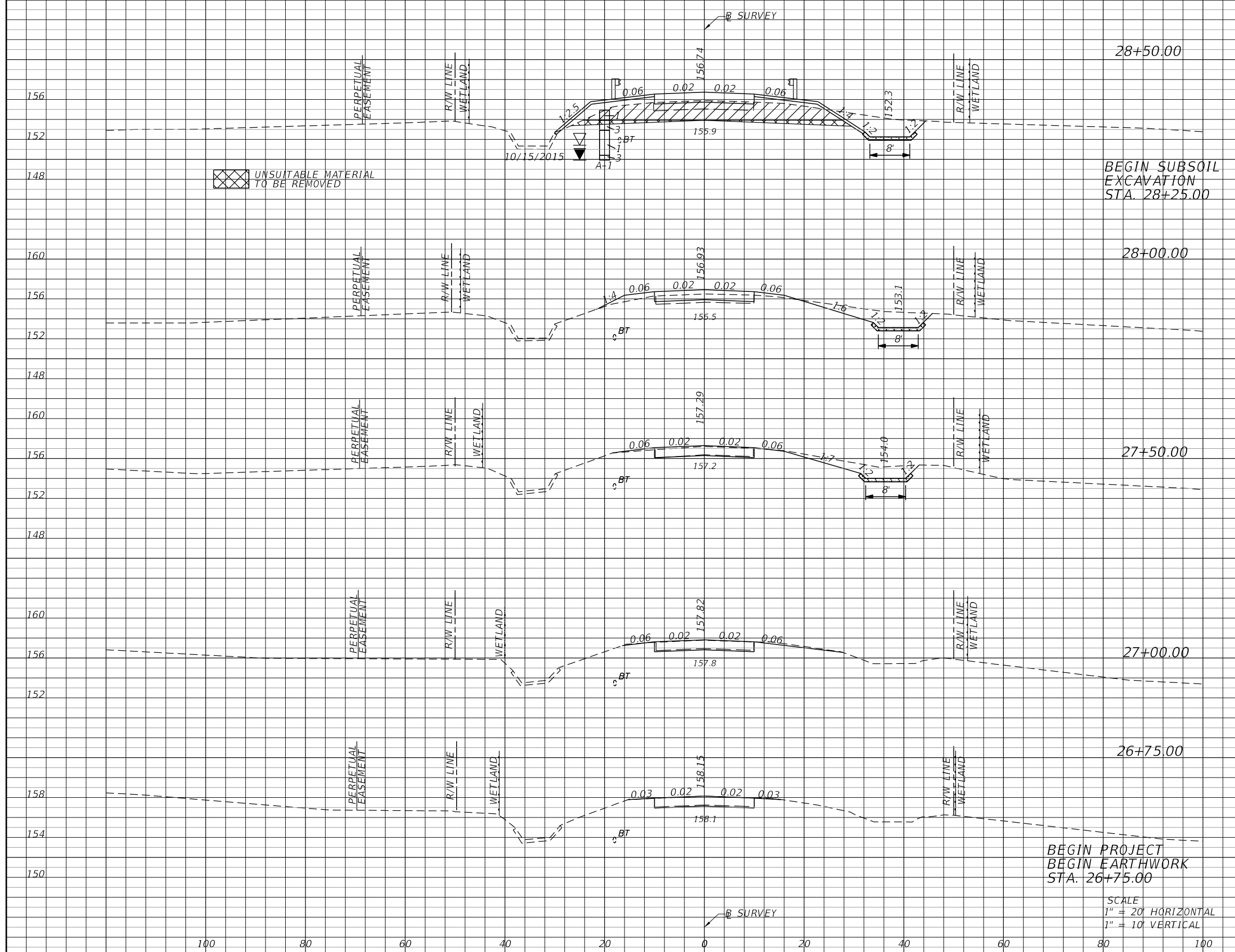
STRATA BOUNDARIES ARE APPROXIMATE MAKE FINAL CHECK AFTER GRADING

▼ = WATER TABLE ENCOUNTERED
▽ = SEASONAL HIGH WATER TABLE
GNE = GROUNDWATER NOT ENCOUNTERED

NOTES:

- 1) SOIL BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY.
- 2) SOIL ANALYSIS INCLUDES DATA FROM ROADWAY AND STORMWATER RETENTION AREAS ONLY.
- 3) THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
- 4) THE MATERIAL FROM STRATUM NUMBER 1 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX No. 120-001.
- 5) THE MATERIAL FROM STRATUM NUMBER 2 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX No. 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
- 6) THE MATERIAL FROM STRATUM NUMBER 3 IS A PLASTIC MATERIAL (P) AND SHALL BE REMOVED IN ACCORDANCE WITH INDEX No. 120-002. IT MAY BE PLACED ABOVE THE EXISTING WATER LEVEL (AT THE TIME OF CONSTRUCTION) TO WITHIN 4 FEET OF THE PROPOSED BASE. IT SHOULD BE PLACED UNIFORMLY IN THE LOWER PORTION OF THE EMBANKMENT FOR SOME DISTANCE ALONG THE PROJECT RATHER THAN FULL DEPTH FOR SHORTER DISTANCES.

REVISIONS				JOHN B. KIMBERLY IV, P.E. P.E. LICENSE NUMBER 49866 9655 W. FLORIDA MINING BOULEVARD-SUITE 509 JACKSONVILLE, FLORIDA 32257 TERRACON CERTIFICATE OF AUTHORIZATION No. 8830	OKALOOSA COUNTY PUBLIC WORKS			ROADWAY SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		18
					OKALOOSA	433910-2-58-01			



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
14.3		110.0		96.2	
	13		139		130
14.3					
		40.1		6.8	
			79		7
		44.9		1.1	
			59		1
		19.2		0.0	
			18		0
		19.1		0.0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

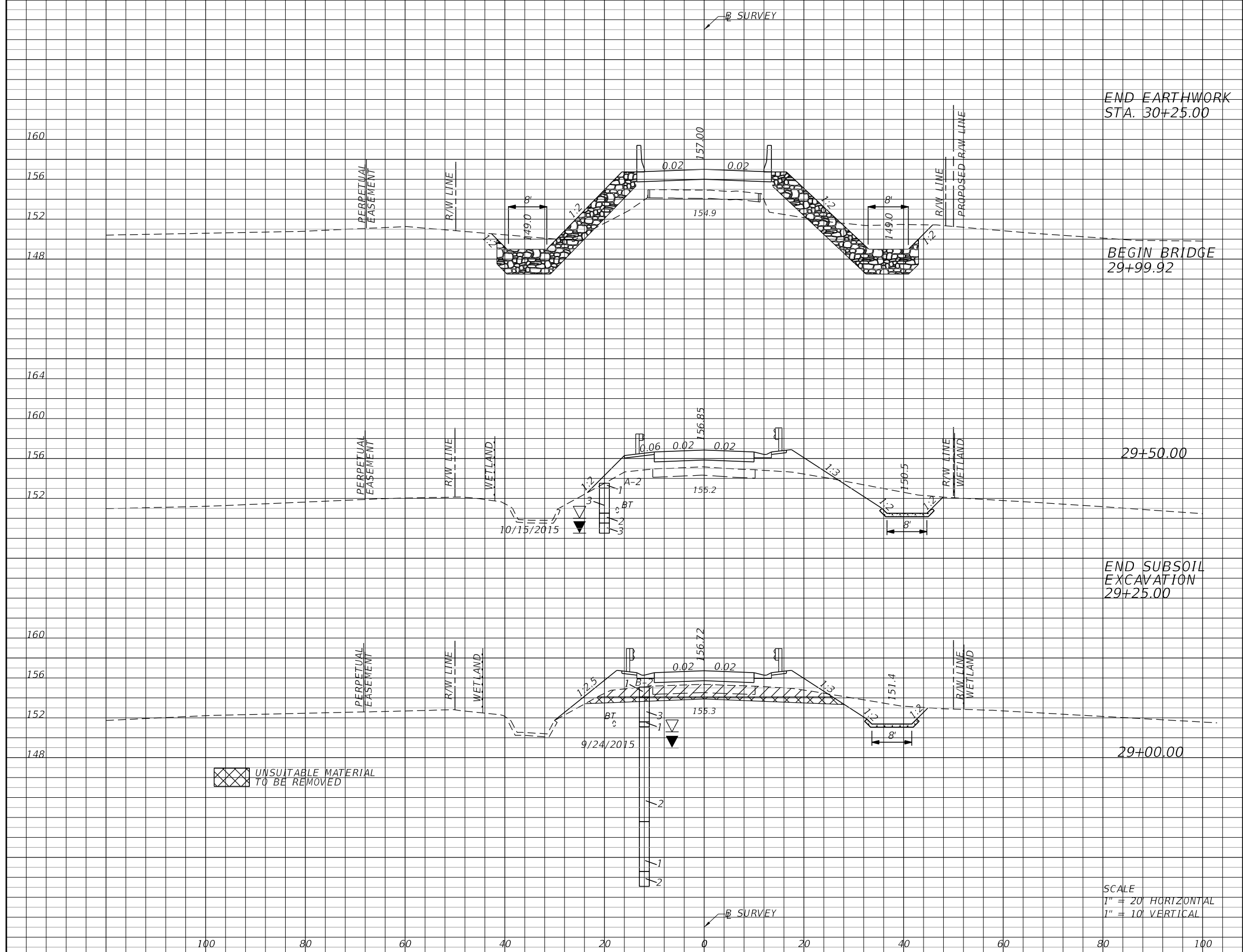
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OKALOOSA COUNTY PUBLIC WORKS		
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	OKALOOSA	433910-2-58-01

CROSS SECTIONS

SHEET NO.
19

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
			130.0		67.0
					63
					112
			153		
					127
22.7			100		
	21				
22.7			75.8		85.5
	35				168
			172		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

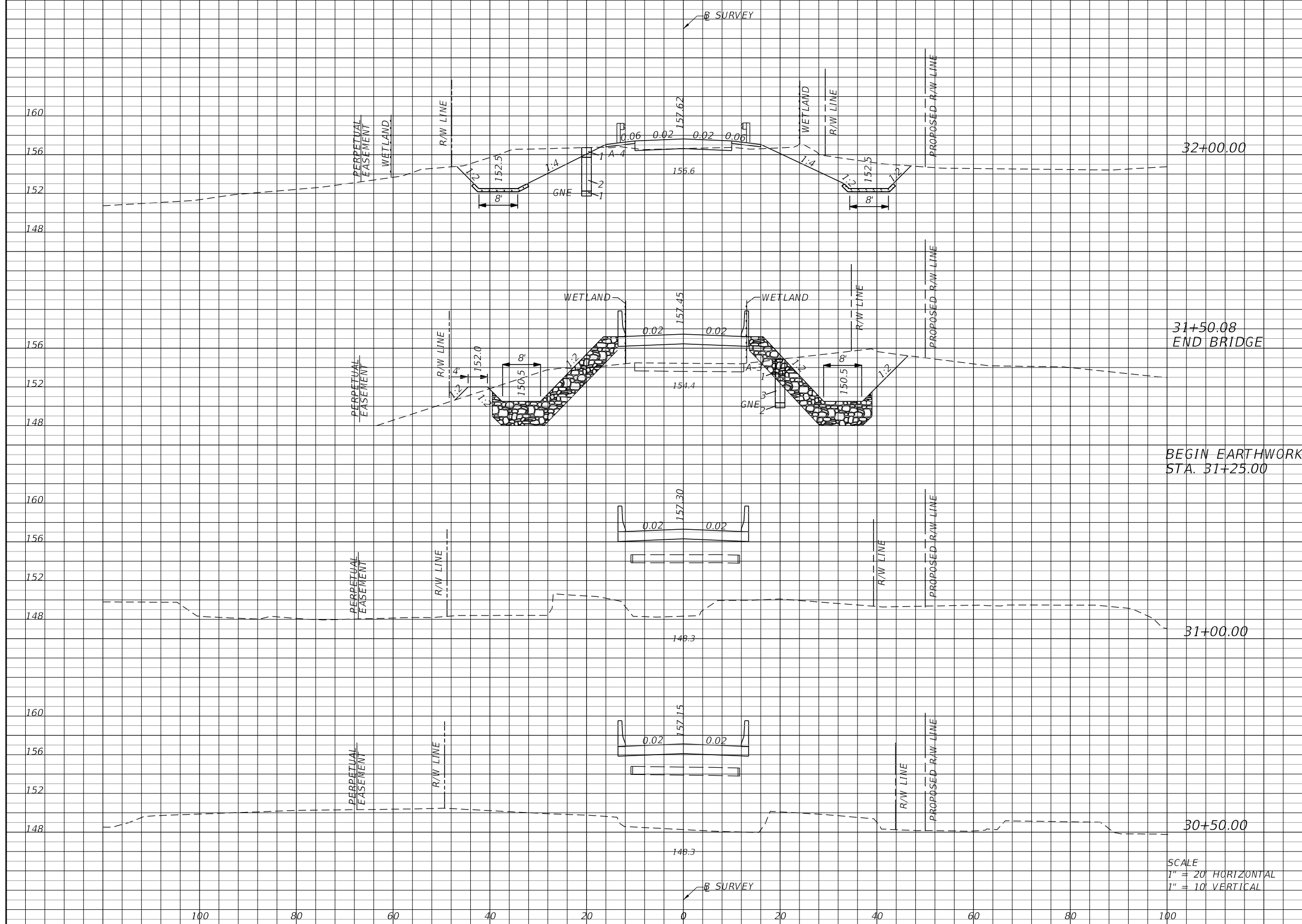
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CROSS SECTIONS

SHEET NO.
20

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Regular		Exc.		Embankment	
A	V	A	V	A	V
134.5			4.2		
	336			55	
228.8			55.0		
	208			49	
220.0			50.0		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

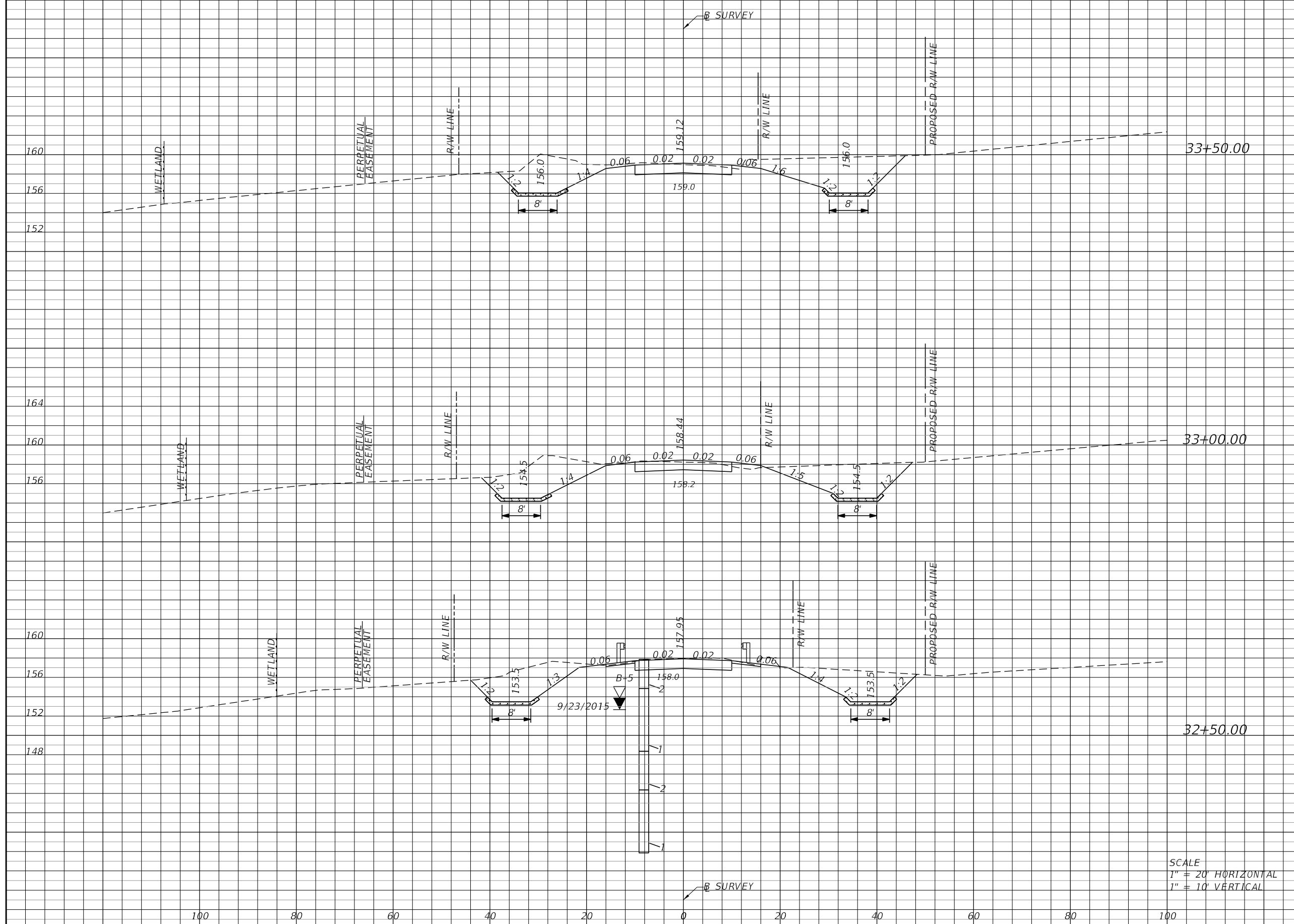
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CROSS SECTIONS

SHEET NO.
21

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Regular		Exc.		Embankment	
A	V	A	V	A	V
157.6		0.6			
	285			3	
150.4		2.8			
	278			3	
149.6		0.1			
	263			4	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

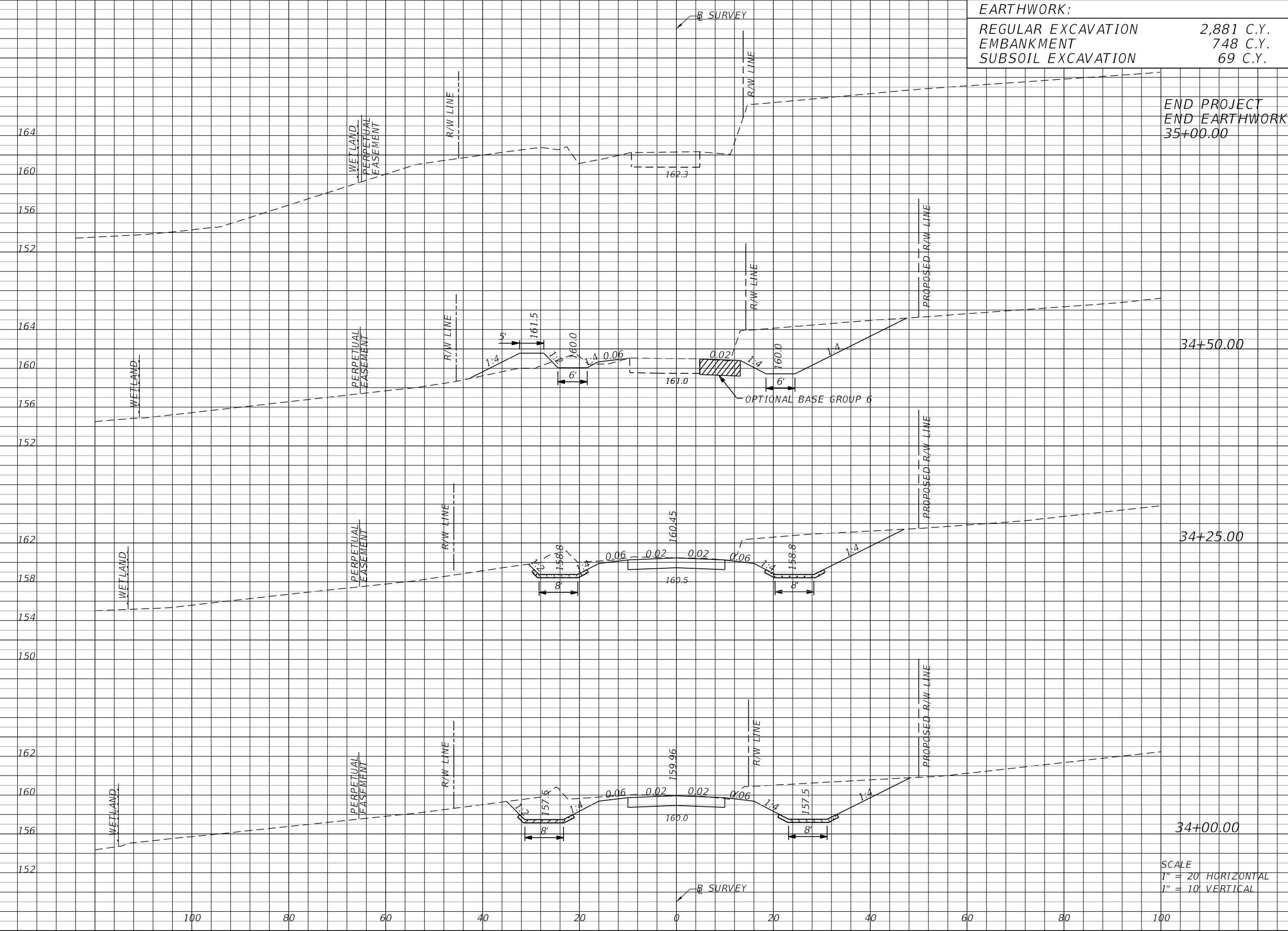
CROSS SECTIONS

SHEET NO.
22

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EARTHWORK:	
REGULAR EXCAVATION	2,881 C.Y.
EMBANKMENT	748 C.Y.
SUBSOIL EXCAVATION	69 C.Y.

Station	Regular Exc.		Embankment	
	A	V	A	V
35+00.00	0.0	0.0	0.0	0.0
34+50.00	129.3	119	18.1	17
34+25.00	144.6	127	0.0	8
34+00.00	151.9	137	0.1	0
	286			1



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

REVISIONS			
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OKALOOSA COUNTY PUBLIC WORKS		
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	OKALOOSA	433910-2-58-01

CROSS SECTIONS

SHEET NO.
23

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1.0 SITE DESCRIPTION

1.a. Nature of Construction Activity:

The construction activities include the demolition of an existing bridge structure on Steele Road over Penny Creek, construction of a new bridge, roadway reconstruction and resurfacing, and associated roadway and drainage improvements. The project is located approximately 4 miles west of Baker in Okaloosa County, in Section 11, Township 3 North, Range 25 West and Section 14, Township 3 North, Range 25 West.

1.b. Sequence of Major Soil Disturbing Activities:

The following sequence of major activities shall be followed, unless the contractor can propose an alternative that is equal to or better at controlling soil erosion and sediment deposition, and is approved by the County. The detailed sequence for the entire project can vary from contractor to contractor.

- * Install erosion and sediment control devices.
- * Install Detour Signage
- * Construct bridge, roadway and drainage improvements as shown on the plans.
- * Remove temporary construction fill.
- * Permanently stabilize all disturbed areas.
- * Remove all erosion and sediment control devices.
- * Relocate existing utilities.
- * Construct new roadway and ditches as per plans.

The contractor is responsible for documenting this portion of the SWPPP in the Section 104 Erosion Control Plan.

1.c. Area Estimates:

Total site area within R/W = 1.9 acres
Total area to be disturbed = 1.4 acres

1.d(1) Runoff Coefficient Data:

Before Construction = 0.39
During Construction = 0.67
After Construction = 0.39

1.d(2) Description of Soil

Bonifay-Dothan-Angie Complex (5-12% slopes) (49)
Kinston, Johnston, and Bibb soils, frequently flooded (43)

1.d(4) Outfall Locations

1.d(4)(1) Penny Creek

Location: Latitude 30° 46' 14", Longitude 86° 42' 56"
Est. drainage area: 5.85 sq. miles
Receiving water name: Blackwater River

1.e. Site Map:

The Construction Plans are being used as the site map of the area.

1.f. Name of Receiving Waters:

The project drains to Penny Creek, which flows to the Blackwater River, to Blackwater Bay, to East Bay, to Pensacola Bay and ultimately to Gulf of Mexico.

2.0 CONTROLS

The following discussion defines general guidelines for the sequence of construction and the use of stabilization and structural practices. The erosion and sediment controls have been identified on the SWPPP sheets included in the plans. The following recommended guidelines are based on the erosion and sediment controls shown in the plans. The contractor shall modify the plan to adapt to seasonal variation, changes in construction activities and the need for better practices.

2.a(1) Erosion and Sediment Controls:

Install sediment barriers and turbidity barriers prior to clearing and grubbing. Controls shall remain in place until the contributing drainage area has been permanently stabilized.

The contractor is responsible for documenting this portion of the SWPPP in the Section 104 Erosion Control Plan.

2.a(2) Stabilization Practices:

The contractor shall initiate all stabilization measures as soon as practicable, but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased.

The contractor is responsible for documenting this portion of the SWPPP in the Section 104 Erosion Control Plan.

2.b Stormwater Management:

N/A. Stormwater management is not required for this project.

2.c Other Controls:

2.c(1) Offsite Vehicle Tracking:

Loaded haul trucks are to be covered with tarpaulin. Excess dirt on the roadway is to be removed daily. The contractor shall incorporate dust control during dust-generating activities.

2.c(2) Sanitary Waste:

All sanitary waste will be collected from the portable units as necessary or as required by local regulation by a licensed sanitary waste management coordinator.

The contractor is responsible for documenting this portion of the SWPPP in the Section 104 Erosion Control Plan.

2.c(3) Fertilizers and Pesticides:

Fertilizer will be applied in accordance with FDOT Standard Specifications.

The contractor is responsible for documenting this portion of the SWPPP in the Section 104 Erosion Control Plan.

2.c(3) Toxic Substances:

The contractor shall provide measures for toxic substance and spill containment, reporting and response. The plan shall specify what management practices and containment methods will be used to prevent potential pollutants (fuels, lubricants, herbicides, etc.) from spilling onto or into surface waters.

The contractor is responsible for documenting this portion of the SWPPP in the Section 104 Erosion Control Plan.

2.d Permits:

A General Permit (#46-0338338-003-EG) was issued by FDEP in 4.1.2016

USACE Permit SAJ-2016-00452 NW-MA0.

The contractor shall obtain a NPDES permit from FDEP.

3.0 MAINTENANCE:

The following defines general guidelines for the maintenance of erosion and sediment control devices. The contractor shall maintain these controls until the site is permanently stabilized. It is the responsibility of the contractor to remove these devices following permanent stabilization of the site.

ITEM	PROPOSED MAINTENANCE
Sediment Barrier	In accordance with Specification Section 104
Inlet Protection System	In accordance with specification 104
Staked Turbidity Barrier	In accordance with Specification Section 104
Floating Turbidity Barrier	In accordance with Specification Section 104

4.0 INSPECTIONS:

Qualified personnel shall inspect the following items at least once every 24 hours and at the end of rainfall events 0.5" and greater. SWPPP Construction Inspection Reports are to be completed on a weekly basis and after all rainfall events 0.5" and greater. Where sites have been permanently stabilized, inspection shall be conducted at least once per month.

The contractor shall inspect the following areas at a minimum:

- * Points of discharge to waters of the United States.
- * Points of discharge to municipal separate storm sewer 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.
- * Location where vehicles enter or exit the site.

5.0 NON STORMWATER DISCHARGES:

Dewatering:

The contractor is responsible for obtaining any required permits associated with dewatering such as the WMD consumptive use permit and the FDEP Generic Permit for Discharge of Produced Groundwater from any Non-Contaminated Site Activity, 62-621.300(2). If the contractor encounters contaminated soil or groundwater, contact Scott Hanson, Okaloosa County Environmental Manager at 850-609-6165.

REVISIONS

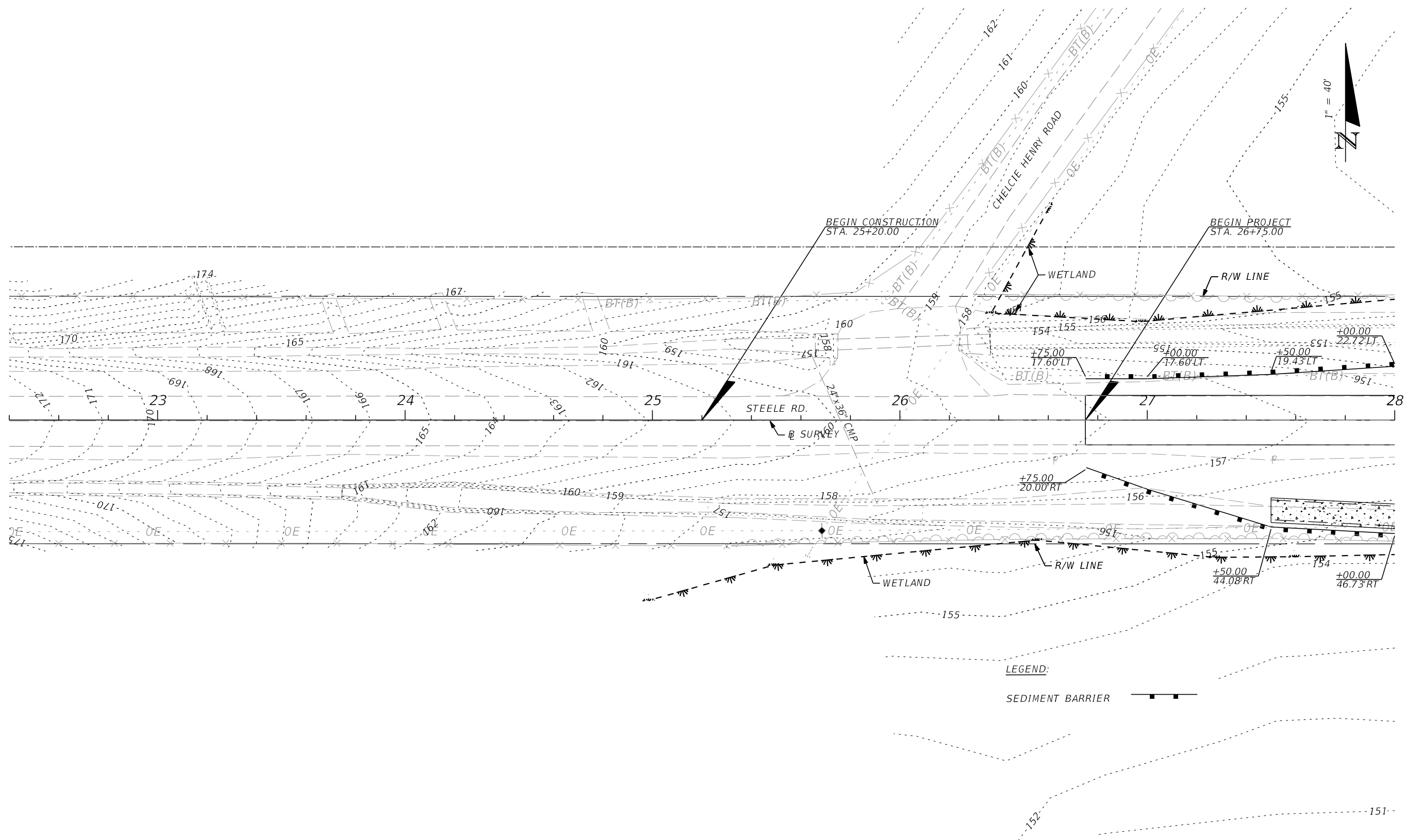
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OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

STORMWATER POLLUTION PREVENTION PLAN	SHEET NO. 24
---	---------------------

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LEGEND:

SEDIMENT BARRIER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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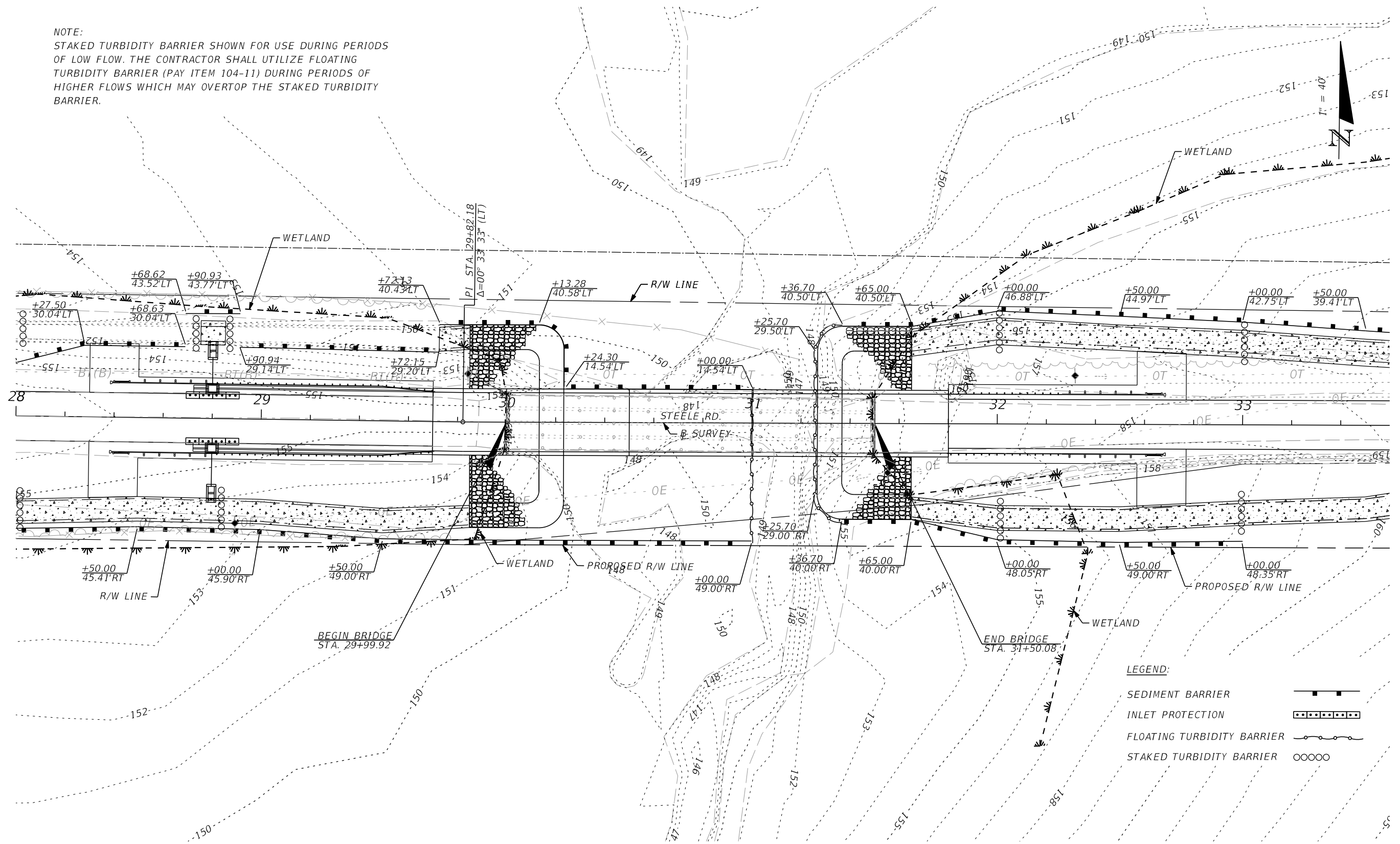
OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

**EROSION CONTROL
PLAN**

SHEET
NO.
25

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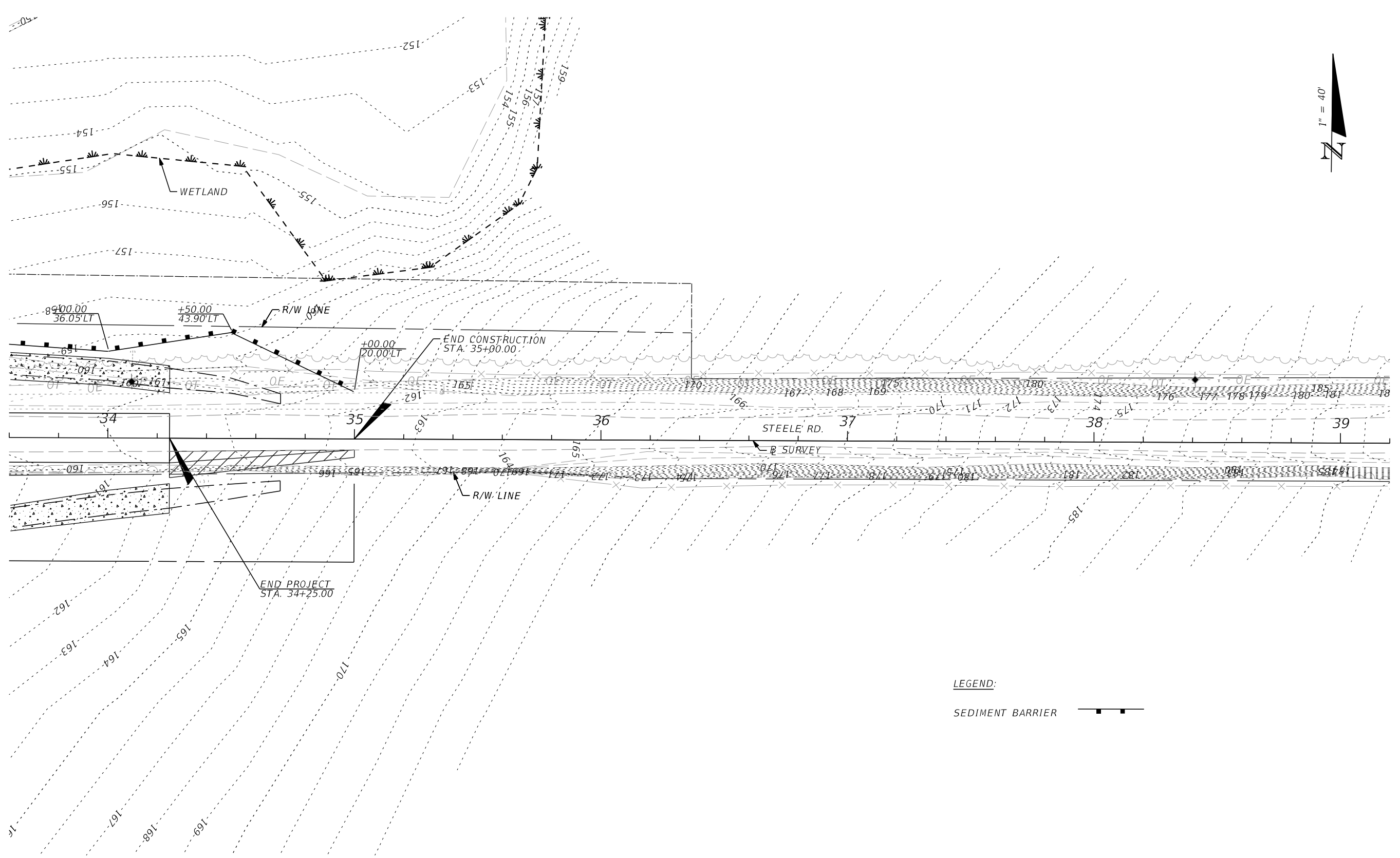
NOTE:
 STAKED TURBIDITY BARRIER SHOWN FOR USE DURING PERIODS OF LOW FLOW. THE CONTRACTOR SHALL UTILIZE FLOATING TURBIDITY BARRIER (PAY ITEM 104-11) DURING PERIODS OF HIGHER FLOWS WHICH MAY OVERTOP THE STAKED TURBIDITY BARRIER.



- LEGEND:**
- SEDIMENT BARRIER
 - INLET PROTECTION
 - FLOATING TURBIDITY BARRIER
 - STAKED TURBIDITY BARRIER

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS		EROSION CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT ID		26
					OKALOOSA	433910-2-58-01		

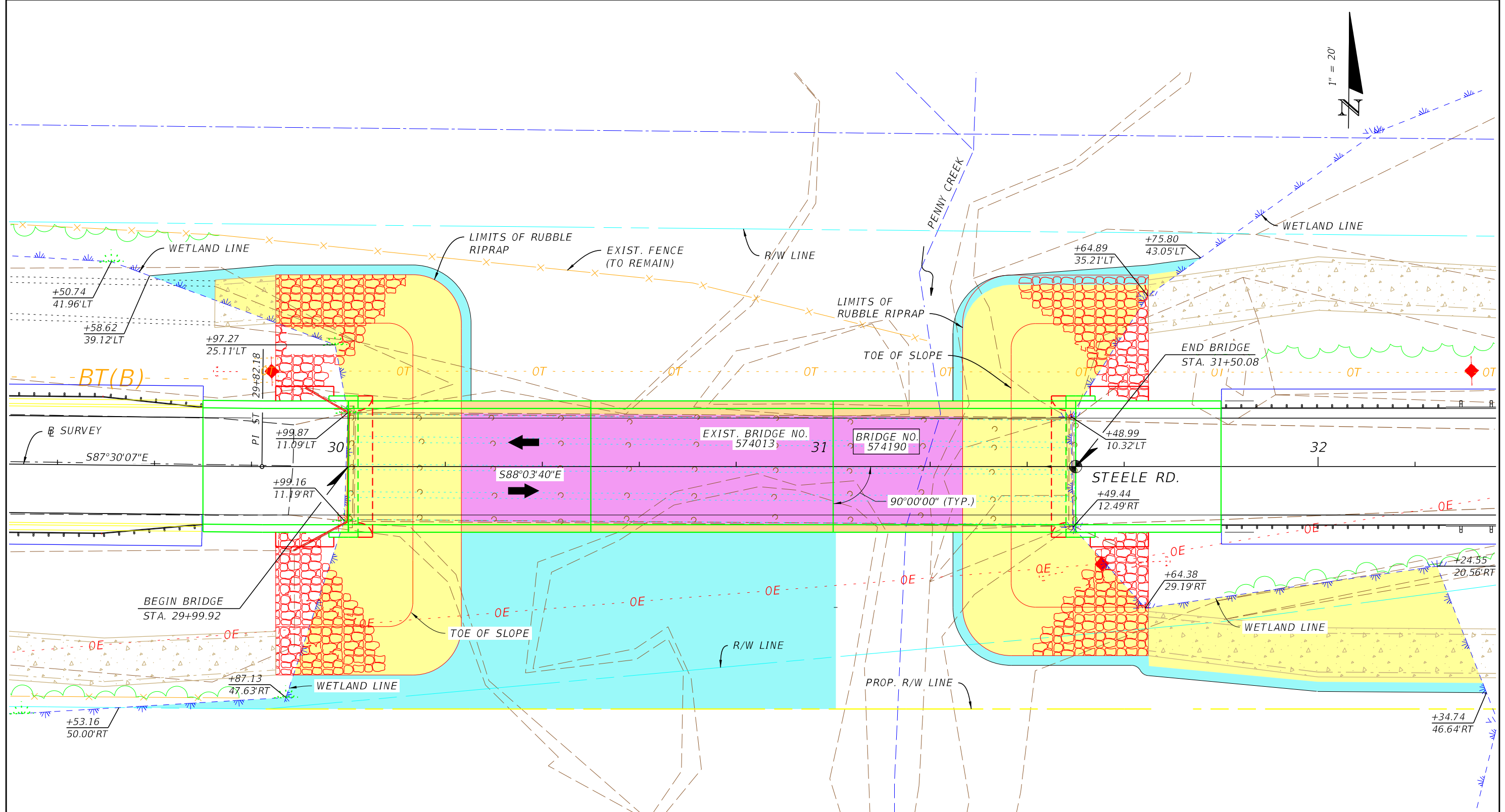
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LEGEND:
 SEDIMENT BARRIER

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS		<i>EROSION CONTROL PLAN</i>	SHEET NO. 27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
					OKALOOSA	433910-2-58-01		

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PERMIT LEGEND:

- DIRECT WETLAND FILL AREA = 5,809 SF = 0.133 ACRES
- WETLAND CLEARING/SHADING AREA = 2,323 SF = 0.053 ACRES
- WETLAND SHADING AREA = 477 SF = 0.011 ACRES
- TEMPORARY WETLAND IMPACT AREA = 3,752 SF = 0.086 ACRES

LEGEND:



REVISIONS			
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OKALOOSA COUNTY PUBLIC WORKS		
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WETLAND IMPACTS
SHEET NO. 28

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TEMPORARY TRAFFIC CONTROL PLAN NOTES

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, INDEX 102-600 SERIES.
2. THE EXISTING POSTED SPEED SHALL REMAIN AS THE POSTED SPEED DURING CONSTRUCTION. THE POSTED SPEED THROUGHOUT THE PROJECT IS 30 MPH.
3. THE LOCATION OF ALL TRAFFIC CONTROL DEVICES SHOWN IN THE PLANS IS APPROXIMATE ONLY AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET ACTUAL FIELD CONDITIONS.
4. THE NUMBER OF DEVICES SHOWN ON THESE PLANS IS FOR ILLUSTRATION PURPOSES. ADDITIONAL DEVICES MAY BE REQUIRED TO PROPERLY PROTECT THE WORKERS AND WORK ZONE FROM VEHICULAR TRAFFIC.
5. USE PORTABLE CHANGEABLE MESSAGE SIGNS AS SHOWN ON DETOUR PLAN (14) DAYS PRIOR TO CONSTRUCTION WITH THE FOLLOWING MESSAGES:

PRIOR TO CONSTRUCTION

DURING CONSTRUCTION

STEELE RD
BRIDGE
TO CLOSE

BEGINS
MM/DD

STEELE RD
BRIDGE
CLOSED

USE
DETOUR

MAY BE CHANGED AS DIRECTED BY THE ENGINEER

TEMPORARY TRAFFIC CONTROL PHASING NOTES

1. INSTALL ALL TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN ON DETOUR PLAN.
2. INSTALL ALL EROSION CONTROL ITEMS PRIOR BEGINNING OF CONSTRUCTION.
3. CONSTRUCT NEW BRIDGE OVER PENNY CREEK.
4. CONSTRUCT ROADWAY AND DRAINAGE IMPROVEMENTS.

REVISIONS

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OKALOOSA COUNTY
PUBLIC WORKS

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

TEMPORARY TRAFFIC
CONTROL PLAN

SHEET
NO.

29



LEGEND
 □ WORK ZONE SIGNS
 ▣ TYPE III BARRICADES
 □ PCMS-PORTABLE CHANGEABLE MESSAGE SIGNS

DETOUR PLAN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

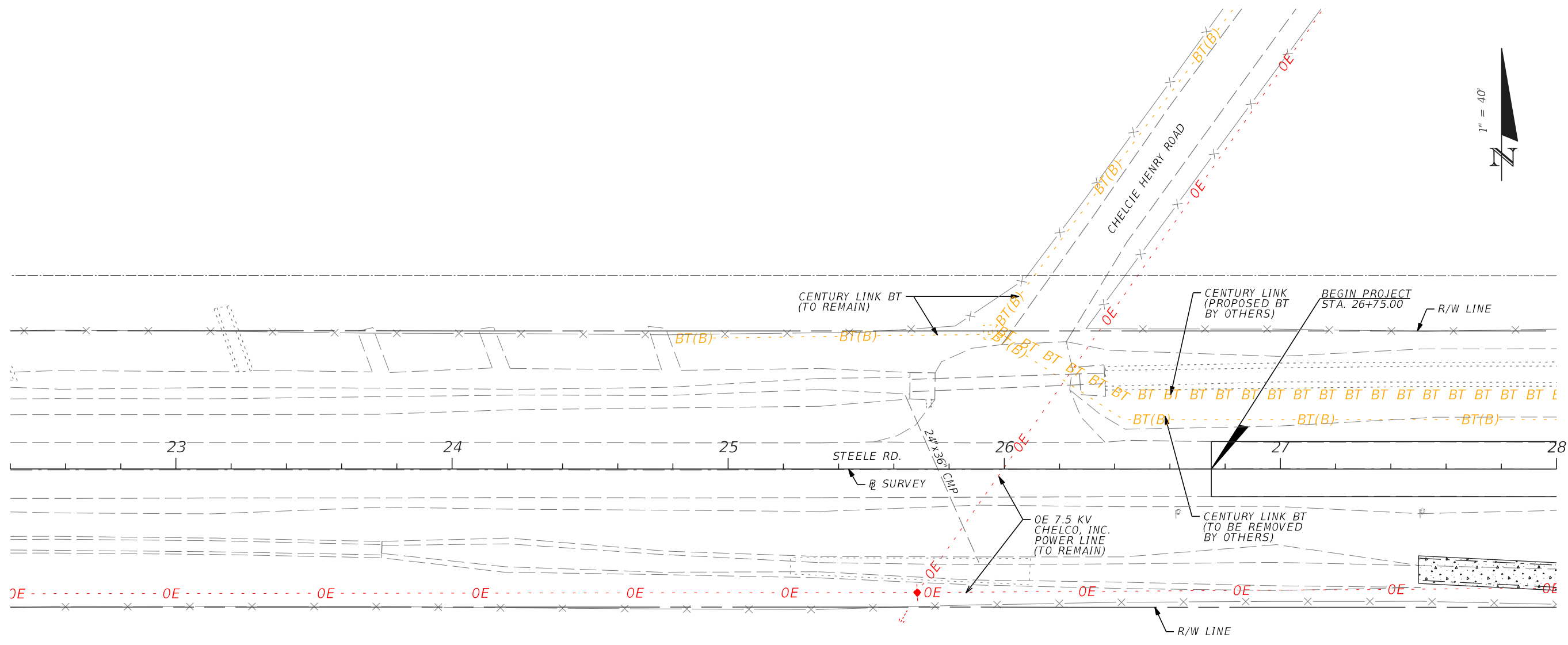
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OKALOOSA COUNTY PUBLIC WORKS		
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**TEMPORARY TRAFFIC
CONTROL PLAN**

SHEET NO.
30

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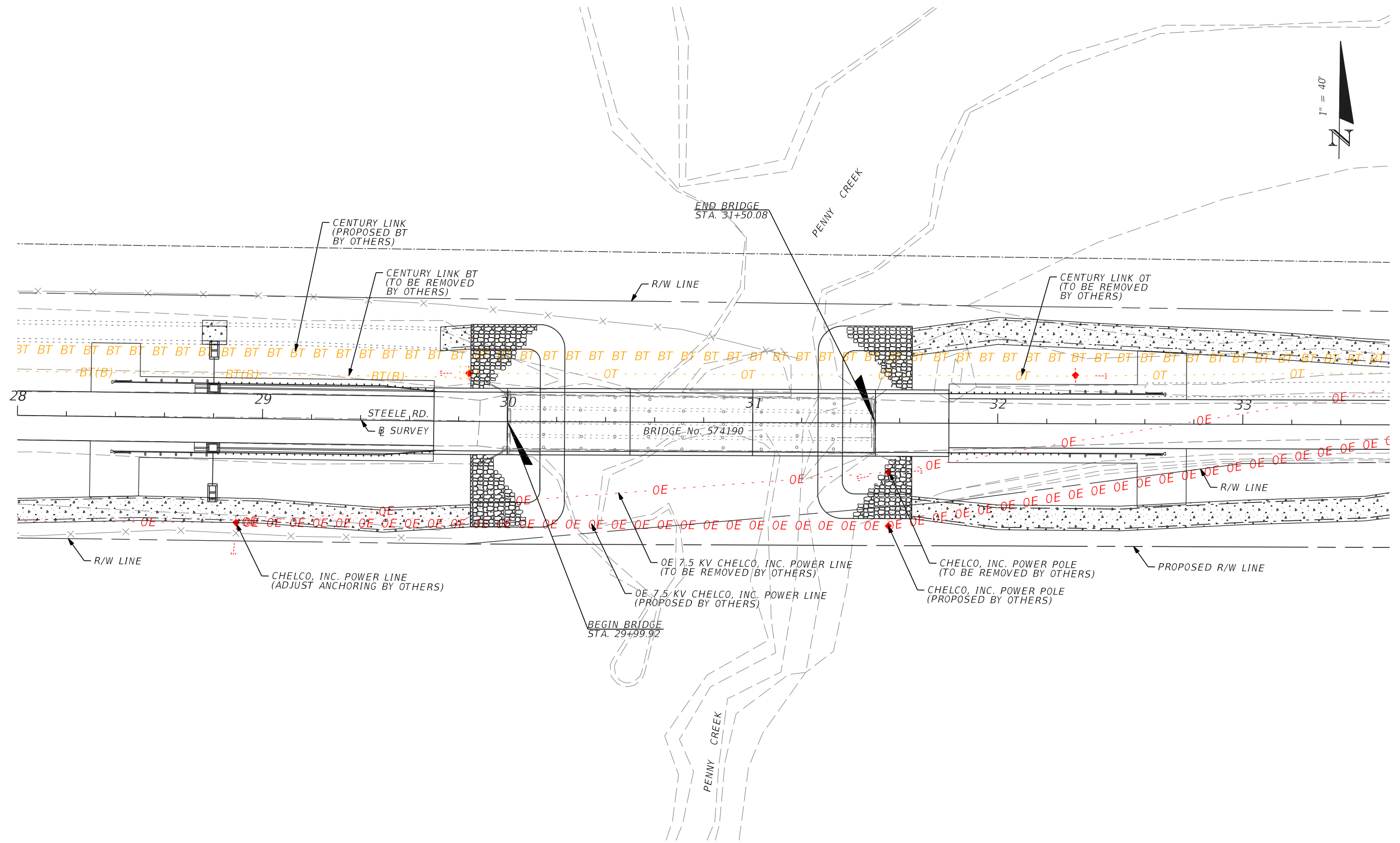
JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

UTILITY ADJUSTMENTS

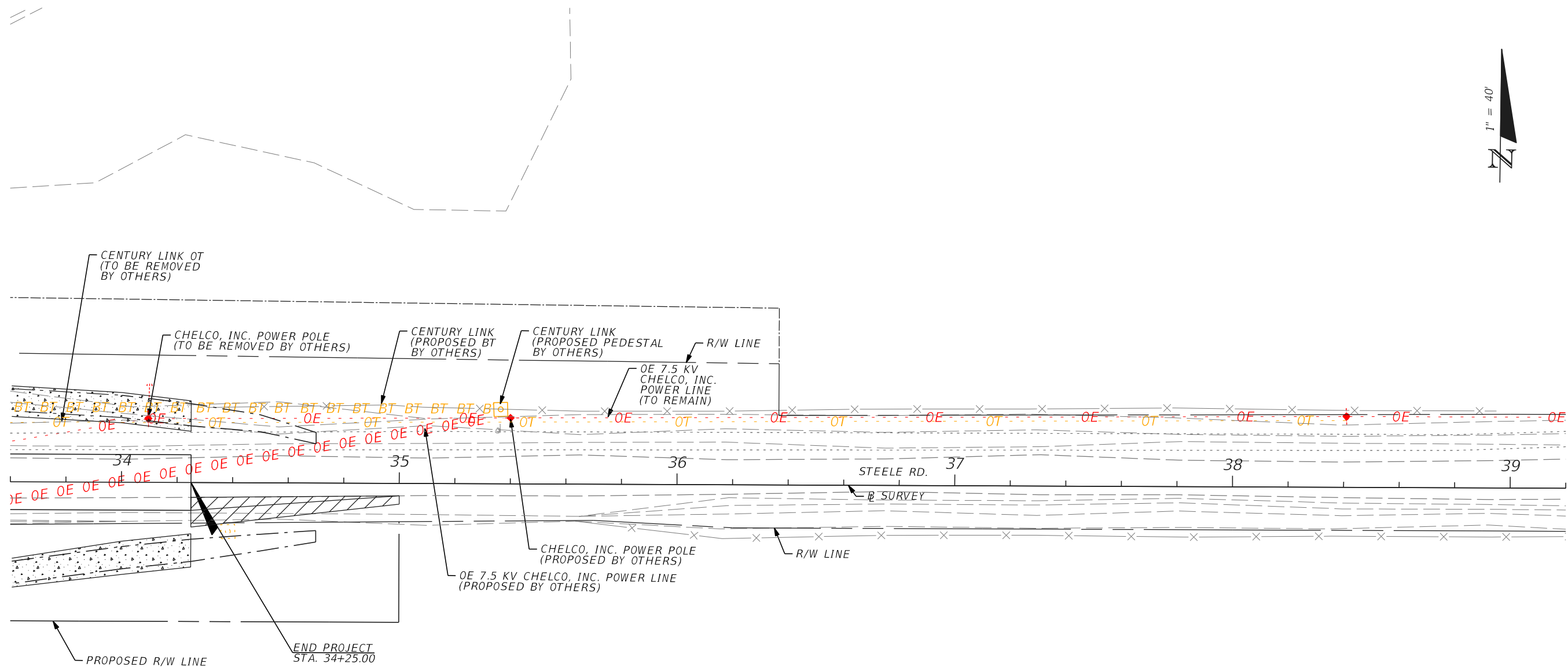
SHEET NO.
31

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



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

REVISIONS				JORDAN L. CAVIGGIA, P.E. (No. 68253) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	OKALOOSA COUNTY PUBLIC WORKS		UTILITY ADJUSTMENTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT ID		32
					OKALOOSA	433910-2-58-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

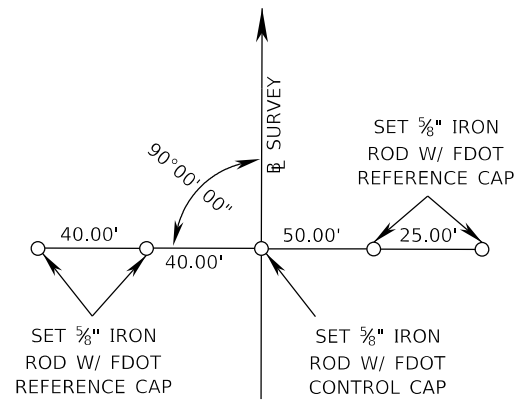
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OKALOOSA COUNTY PUBLIC WORKS		
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	OKALOOSA	433910-2-58-01

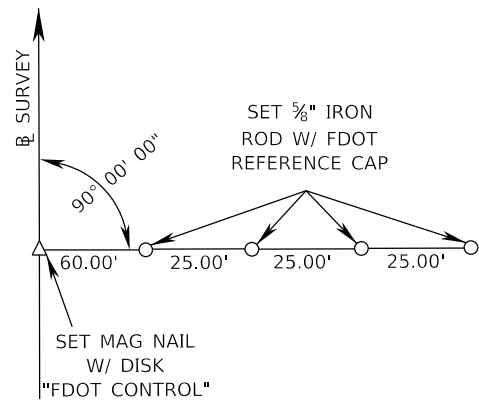
UTILITY ADJUSTMENTS	SHEET NO. 33
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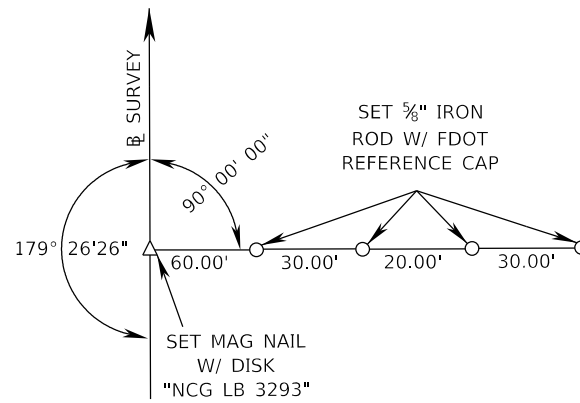
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(NOT TO SCALE)



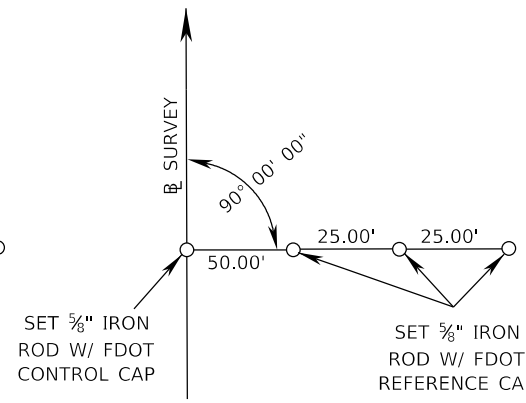
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STA. 14+00.00



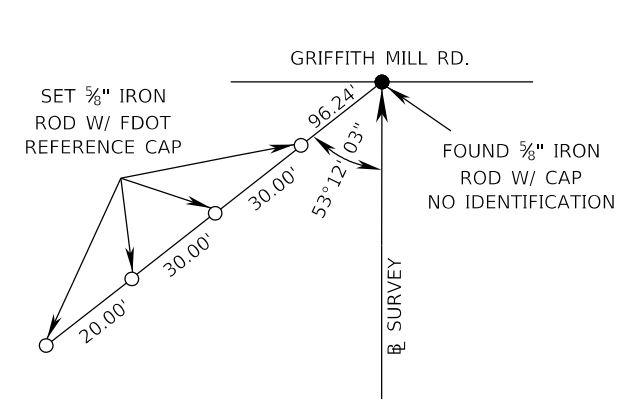
⊟ SURVEY STEELE RD.
P.O.T. STA. 22+00.00



⊟ SURVEY STEELE RD.
P.I. STA. 29+82.18



⊟ SURVEY STEELE RD.
P.O.T. STA. 44+00.00



END **⊟** SURVEY STEELE RD.
STA. 55+87.47

LEGEND

- = FOUND 5/8" IRON ROD
- = SET 5/8" IRON ROD
- ▲ = FOUND MAG NAIL AND DISK
- △ = SET MAG NAIL AND DISK

B/L STATION	NORTHING (Y)	EASTING (X)	SCALE FACTOR
STA. 14+00.00	650731.3328	1270933.8224	1.00000371
STA. 22+00.00	650696.4636	1271733.0621	1.00000371
STA. 29+82.19	650662.3710	1272514.4988	1.00000370
STA. 44+00.01	650614.4031	1273931.5071	1.00000369
STA. 55+87.48	650574.2284	1275118.2972	1.00000368

HORIZONTAL AND VERTICAL CONTROL

1. ANY PROJECT CONTROL MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ADMINISTRATOR SHOULD NOTIFY THE DISTRICT SURVEYOR, WITHOUT DELAY, BY TELEPHONE. (850) 330-1400.
2. THIS PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM NAD 1983/2011 HORIZONTAL DATUM. THE VERTICAL DATUM IS BASED ON NAVD 1988. COORDINATES SHOWN BELOW SUPPLIED BY FDOT SURVEY DEPARTMENT.
3. HORIZ. INFORMATION FOR BENCHMARKS IS SHOWN TO THE NEAREST FOOT FOR COORDINATES AND THE TENTH OF A SECOND FOR LAT. & LONG. TO BE USED FOR RECON PURPOSES ONLY AND SHOULD NOT BE USED FOR HORIZ. CONTROL.

DESIGNATION	B/L STATION	OFFSET	ELEVATION	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELLIP. HT. (METRIC UNITS)	SCALE FACTOR
A1	22+25.12	15.33' LT	173.00'	FOUND 5/8" IRON ROD WITH FDOT CONTROL CAP	650710.6812	1271758.8292	30°46'14.12348"	86°43'06.52537"	N/A	1.00000371
57-14-D01V	22+36.81	43.31' RT	173.20'	FOUND 4"x4" CONC MON W/ DISK STAMPED 57-14-D01V	650652	1271768	30°46'13.5"	86°43'06.4"	N/A	1.00000368
A2	29+79.83	19.69' RT	153.74'	FOUND 5/8" IRON ROD WITH FDOT CONTROL CAP	650642.8040	1272511.2972	30°46'13.59663"	86°42'57.88711"	N/A	1.00000369
A3	31+61.99	16.16' LT	155.37'	FOUND 5/8" IRON ROD WITH FDOT CONTROL CAP	650672.4355	1272694.7532	30°46'13.92513"	86°42'55.79135"	N/A	1.00000370
A4	39+71.32	29.67' LT	190.98'	FOUND 5/8" IRON ROD WITH FDOT CONTROL CAP	650658.5583	1273504.0806	30°46'13.94336"	86°42'46.51353"	N/A	1.00000370
57-14-D02V	39+74.15	35.00' LT	191.48'	FOUND 4"x4" CONC MON W/ DISK STAMPED 57-14-D02V	650664	1273507	30°46'14.0"	86°42'46.5"	N/A	1.00000371

DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION		OKALOOSA COUNTY PUBLIC WORKS	ROAD NO. COUNTY FINANCIAL PROJECT ID OKALOOSA 433910-2-58-01	PROJECT NETWORK CONTROL	SHEET NO. 34
NOBLES CONSULTING GROUP, INC. 1333 S. RAILROAD AVENUE CHIPLEY, FLORIDA 32428 LB#3293 EB#7990 P:850.638.8833 F:850.638.0905 SURVEYOR OF RECORD: DAVID J. GRISWOLD PSM #5382						OKALOOSA COUNTY PUBLIC WORKS		ROAD NO. COUNTY FINANCIAL PROJECT ID OKALOOSA 433910-2-58-01		PROJECT NETWORK CONTROL	SHEET NO. 34				

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 5J-17.062, F.A.C.

OKALOOSA COUNTY, FLORIDA

STEELE ROAD OVER PENNY CREEK
BRIDGE REPLACEMENT
FINANCIAL PROJECT ID 433910-2-58-01
(FEDERAL FUNDS)

COMMISSIONERS

WAYNE HARRIS DISTRICT 1
CAROLYN KETCHEL DISTRICT 2
NATHAN BOYLES DISTRICT 3
TREY GOODWIN DISTRICT 4
KELLY WINDES DISTRICT 5

SIGNING AND PAVEMENT MARKING PLANS

COUNTY ADMINISTRATOR

JOHN HOFSTAD

PUBLIC WORKS DIRECTOR

JASON AUTREY, P.E.



PLANS PREPARED BY:



JMT-JOHNSON, MIRMIRAN & THOMPSON
615 CRESCENT EXECUTIVE COURT, SUITE 106
LAKE MARY, FLORIDA 32746
PHONE 407-833-9898
CERTIFICATE OF AUTHORIZATION NO. 5917
CONTRACT No: C-9115
VENDOR No. 52-0963531

SIGNING AND PAVEMENT
MARKING PLANS

ENGINEER OF RECORD: JORDAN L. CAVIGGIA, P.E.
P.E. NO. 68253

INDEX OF SIGNING AND
PAVEMENT MARKING PLANS

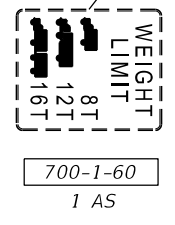
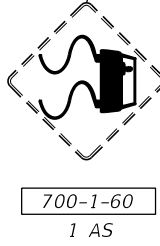
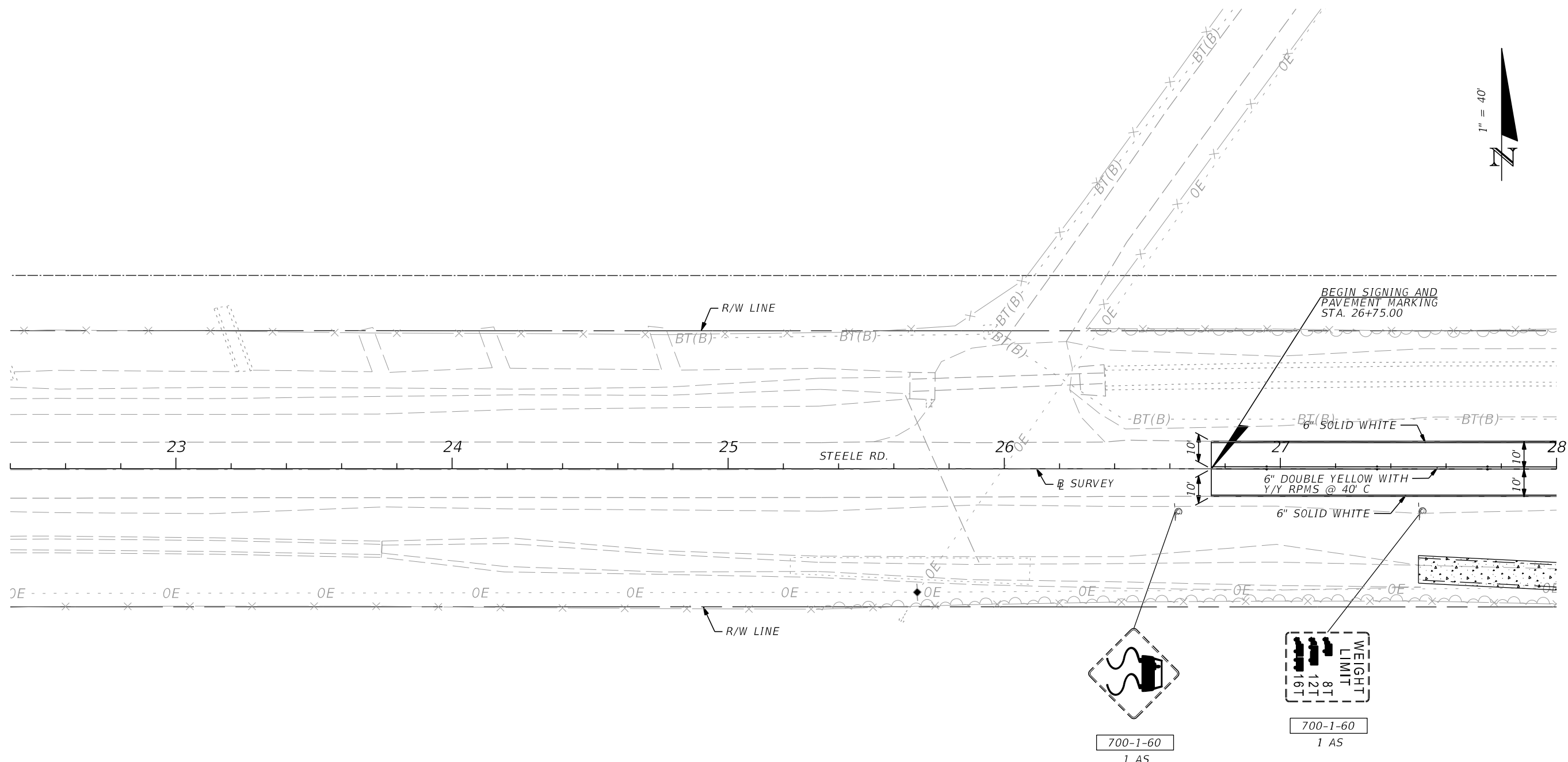
SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3 - S-5	SIGNING AND PAVEMENT MARKING PLAN

FDOT PROJECT MANAGER:

NIKOLE H. ARRANT, P.E.
PHONE NO.: 850-415-9001

FISCAL YEAR	SHEET NO.
19	S-1

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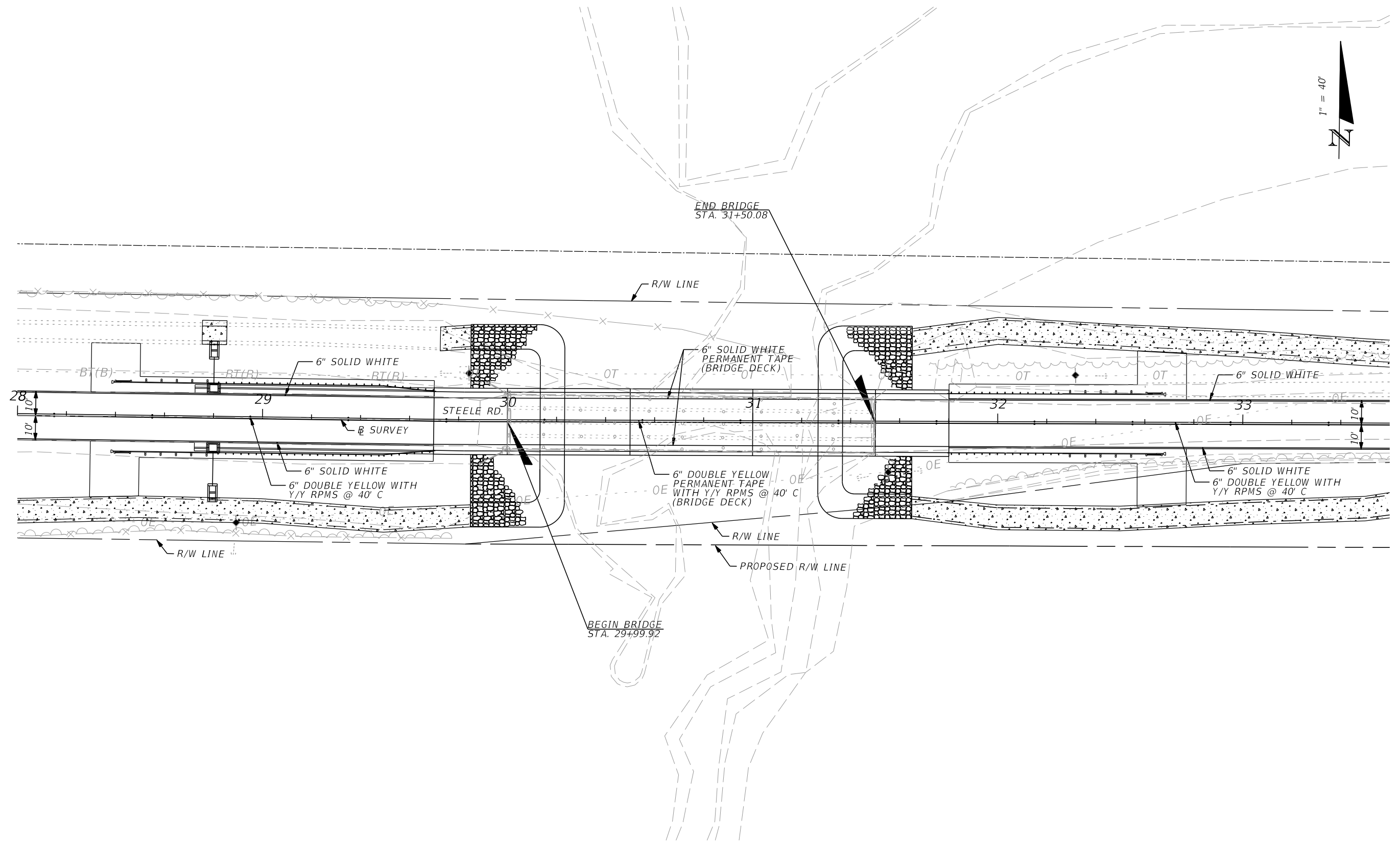
JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
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OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET NO.
S-3

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JORDAN L. CAVIGGIA, P.E. (No. 68253)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET NO.
S-4

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OKALOOSA COUNTY, FLORIDA

STEELE ROAD OVER PENNY CREEK
BRIDGE REPLACEMENT
FINANCIAL PROJECT ID 433910-2-58-01
(FEDERAL FUNDS)

STRUCTURE PLANS



INDEX OF STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B-01	KEY SHEET
BQ1-01	SUMMARY OF STRUCTURES QUANTITIES
B-02	GENERAL NOTES (1 OF 2)
B-03	GENERAL NOTES (2 OF 2)
B-04	RUBBLE RIPRAP SLOPE PROTECTION DETAILS (1 OF 2)
B-05	RUBBLE RIPRAP SLOPE PROTECTION DETAILS (2 OF 2)
B1-01	PLAN AND ELEVATION
B1-02	BRIDGE SECTION
B1-03	BRIDGE HYDRAULIC RECOMMENDATIONS
B1-04	REPORT OF CORE BORINGS FOR BRIDGE
B1-05	FOUNDATION LAYOUT
B1-06	PILE DATA TABLE
B1-07	END BENT NO. 1
B1-08	END BENT NO. 4
B1-09	END BENT DETAILS
B1-10	INTERMEDIATE BENTS NO. 2 AND 3
B1-11	FINISH GRADE ELEVATIONS
B1-12	FRAMING PLAN
B1-13	SUPERSTRUCTURE PLAN AND SECTION
B1-14	SUPERSTRUCTURE DETAILS (1 OF 2)
B1-15	SUPERSTRUCTURE DETAILS (2 OF 2)
B1-16	FSB DATA TABLE
B1-17	REINFORCING BAR LIST
B1-18	LOAD RATING SUMMARY SHEET

DEVELOPMENTAL DESIGN STANDARDS (DDS)	
D20450	TYPICAL FLORIDA SLAB BEAM DETAILS AND NOTES
D20452	15" FLORIDA SLAB BEAMS

COMMISSIONERS

GRAHAM FOUNTAIN	DISTRICT 1
CAROLYN KETCHEL	DISTRICT 2
NATHAN BOYLES	DISTRICT 3
TREY GOODWIN	DISTRICT 4
KELLY WINDES	DISTRICT 5

COUNTY ADMINISTRATOR

JOHN HOFSTAD

PUBLIC WORKS DIRECTOR

JASON AUTREY, PE

PLANS PREPARED BY:



JMT-JOHNSON, MIRMIRAN & THOMPSON
615 CRESCENT EXECUTIVE COURT, SUITE 106
LAKE MARY, FL 32746
CONSULTANT CONTRACT NO. C9115
VENDOR NO. 52-0963531
CERTIFICATE OF AUTHORIZATION NO. 5917

STRUCTURE PLANS
ENGINEER OF RECORD: FREDERICK F. BRAERMAN, PE

P.E. NO.: 71026

FDOT PROJECT MANAGER:

NIKOLE H. ARRANT, P.E.
PHONE NO.: 850-415-9001

FISCAL YEAR	SHEET NO.
19	B-01

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SUMMARY OF STRUCTURE QUANTITIES - BRIDGE 574190

SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
LUMP SUM ITEMS	0110 3	REMOVAL OF EXISTING STRUCTURES/BRIDGES		LS/SF	1/3325		1/3325			
FOUNDATION	0455 34 3	PRESTRESSED CONCRETE PILING, 18" SQ	END BENT 1	LF	300		1296			
			INTERMEDIATE BENT 2		348					
			INTERMEDIATE BENT 3		348					
			END BENT 4		300					
	0455 143 3	TEST PILES - PRESTRESSED CONCRETE, 18" SQ	END BENT 1	LF	90		390			
			INTERMEDIATE BENT 2		105					
SUBSTRUCTURE	0400 4 5	CONCRETE CLASS IV, SUBSTRUCTURE	END BENT 1	CY	11.6		45.0			
			INTERMEDIATE BENT 2		10.9					
			INTERMEDIATE BENT 3		10.9					
			END BENT 4		11.6					
	0415 1 5	REINFORCING STEEL - SUBSTRUCTURE	END BENT 1	LB	1382		5182			
			INTERMEDIATE BENT 2		1209					
APPROACH SLABS	0400 2 10	CONCRETE CLASS II, APPROACH SLABS	APP. SLAB 1	CY	30.1		60.2			
			APP. SLAB 2		30.1					
	0415 1 9	REINFORCING STEEL - APPROACH SLABS	APP. SLAB 1	LB	6085		12170			
			APP. SLAB 2		6085					
SUPERSTRUCTURE	0400 2 47	CONCRETE CLASS II, (CIP TOPPING W/ SHRINKAGE REDUCING ADMIXTURE)	SPAN 1	CY	39.9		119.7			
			SPAN 2		39.9					
			SPAN 3		39.9					
	0400 9	BRIDGE DECK GROOVING AND PLANING - DECK THICKNESS 8.5" OR GREATER	ALL SPANS	SY	418		418			
	0400 148	PLAIN NEOPRENE BEARING PADS	ALL BEAMS	CF	6.9		6.9			
	0415 1 4	REINFORCING STEEL - SUPERSTRUCTURE	SPAN 1	LB	8736		26208			
			SPAN 2		8736					
			SPAN 3		8736					
	0450 8 22	PREST BEAM: FL SLAB BEAM, 15" D, 52-54" W	SPAN 1	LF	293		879			
			SPAN 2		293					
			SPAN 3		293					
RAILING/ BARRIERS	0458 1 11	BRIDGE DECK EXPANSION JOINT, NEW CONST., F&I POURED JOINT W/ BACKER ROD	END BENT 1	LF	26.5		106			
			INTERMEDIATE BENT 2		26.5					
			INTERMEDIATE BENT 3		26.5					
			END BENT 4		26.5					
	0521 5 13	CONCRETE TRAFFIC RAILING-BRIDGE, 36" SINGLE-SLOPE	APP. SLAB 1	LF	60		420			
SPECIAL FEATURES	0530 1	RIPRAP, SAND-CEMENT		CY	13.2		13.2			
	0530 3 3	RIPRAP-RUBBLE, BANK AND SHORE		TN	931.6		931.6			
	0530 74	BEDDING STONE		TN	331.8		331.8			

BRIDGE NO. 574190

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<p>FREDERICK F. BRAERMAN, P.E. (No. 71026) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917</p>			<p>DRAWN BY: ANB 04/16 CHECKED BY: GIE 04/16 DESIGNED BY: ANB 04/16 CHECKED BY: FFB 05/18</p>		<p align="center">OKALOOSA COUNTY PUBLIC WORKS</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td> </td> <td>OKALOOSA</td> <td>433910-2-58-01</td> </tr> </tbody> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		OKALOOSA	433910-2-58-01	<p>SHEET TITLE: SUMMARY OF STRUCTURES QUANTITIES</p> <p>PROJECT NAME: STEELE ROAD OVER PENNY CREEK</p>		<p>REF. DWG. NO. </p> <p>SHEET NO. BQ1-01</p>
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																												
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																															
	OKALOOSA	433910-2-58-01																															

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GENERAL NOTES

DESIGN SPECIFICATIONS:

1. FDOT STRUCTURES MANUAL DATED JANUARY 2016 AND SUBSEQUENT STRUCTURES DESIGN BULLETINS 16-01, 16-04 & 16-06.
2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR DESIGN (LRFD) BRIDGE DESIGN SPECIFICATIONS, 7th EDITION AND ALL SUBSEQUENT INTERIMS.
3. FDOT PLANS AND PREPARATION MANUAL DATED JANUARY, 2016.

GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS:

FDOT FY 2018-19 DESIGN STANDARDS EBOOK (DSEB) AND APPLICABLE DESIGN STANDARDS REVISIONS (DSRS), AND JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

VERTICAL DATUM:

THE VERTICAL DATUM USED ON THIS PROJECT IS NAVD 88.

ENVIRONMENT:

BRIDGE NUMBER	SUPERSTRUCTURE	SUBSTRUCTURE
574190	SLIGHTLY AGGRESSIVE	MODERATELY AGGRESSIVE (PH=5.1)

DESIGN METHODOLOGY:

LOAD AND RESISTANCE FACTOR (LRFD) METHOD USING STRENGTH, SERVICE [EXTREME EVENT] AND FATIGUE LIMIT STATES.

DESIGN LOADINGS:

1. DEAD LOADS:
 - 1.1. 36" SINGLE-SLOPE TRAFFIC RAILING 430 PLF
 - 1.2. REINFORCED CONCRETE 150 PCF
 - 1.3. DESIGN DOES NOT INCLUDE AN ALLOWANCE OF 15 PSF FOR FUTURE WEARING SURFACE
 - 1.4. THE 6½-INCH C.I.P. COMPOSITE TOPPING THICKNESS INCLUDES A ONE-HALF INCH SACRIFICIAL THICKNESS INCLUDED IN THE DEAD LOAD OF THE C.I.P. COMPOSITE TOPPING BUT OMITTED FROM THE SECTION PROPERTIES USED FOR DESIGN.

2. LIVE LOADS: HL-93 WITH DYNAMIC LOAD ALLOWANCE

3. WIND LOADS:
BASIC WIND IN ACCORDANCE WITH AASHTO LRFD AND STRUCTURES DESIGN GUIDELINES, BASIC WIND SPEED = 130 MPH (OKALOOSA COUNTY)

4. THERMAL FORCES:

SUPERSTRUCTURE MATERIAL	TEMPERATURE (°F)			
	MEAN	HIGH	LOW	RANGE
CONCRETE ONLY	70	105	35	70

COEFFICIENT OF THERMAL EXPANSION = 0.0000060 PER °F (CONCRETE).
IN ACCORDANCE WITH AASHTO LRFD TABLE 3.4.1-1, BASE TEMPERATURE RISE AND FALL HAS BEEN BASED ON 120% OF THE VALUES SHOWN ABOVE.

5. CONSTRUCTION LOADS:
 - 5.1. FINISHING MACHINE LOAD: 7 KIPS
 - 5.2. CONSTRUCTION LIVE LOAD: 20 PSF EXTENDED OVER THE ENTIRE BRIDGE WIDTH AND 50-FEET IN LONGITUDINAL LENGTH CENTERED ON THE FINISHING MACHINE.
 - 5.3. CONSTRUCTION INACTIVE BASIC WIND SPEED INCLUDING EXPOSURE PERIOD REDUCTION FACTOR (RE): 78 MPH
 - 5.4. CONSTRUCTION ACTIVE BASIC WIND SPEED : 20 MPH

6. UTILITIES: NO ALLOWANCE FOR UTILITY LOADS HAS BEEN INCLUDED IN THE DESIGN.

7. SEISMIC:
IN ACCORDANCE WITH AASHTO LRFD AND FDOT STRUCTURES DESIGN GUIDELINES (SDG) 2.3.

FOUNDATION:

1. ALL FOUNDATION ELEMENTS AND PROCEDURES SHALL BE IN ACCORDANCE WITH SECTION 455 OF THE SPECIFICATIONS.
2. FOR NOMINAL BEARING RESISTANCE AND FURTHER INFORMATION, SEE SHEET B1-06.
3. POSITIVE FIELD LOCATION/VERIFICATION OF EXISTING UTILITIES IS REQUIRED PRIOR TO DRIVING PILES.

MATERIALS:

1. CONCRETE:
CONCRETE SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 346.

CONCRETE CLASS	MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	LOCATION OF CONCRETE IN STRUCTURE
II	3,400	TRAFFIC RAILING
II (BRIDGE DECK)	4,500	C.I.P. COMPOSITE TOPPING AND APPROACH SLABS
IV	5,500	C.I.P. SUBSTRUCTURE
V (SPECIAL)	6,000	PRECAST PRESTRESSED PILES
V	6,500	PRECAST PRESTRESSED BEAMS

2. CONCRETE COVER:

C.I.P. SUPERSTRUCTURE (TOP OF TOPPING)	2½"
C.I.P. SUPERSTRUCTURE (EXCEPT TOP OF TOPPING)	2"
FSB (EXCEPT TOP SURFACE)	2"
TOP SURFACES OF FSB	1"
C.I.P. SUBSTRUCTURE (CAST AGAINST EARTH)	4"
C.I.P. SUBSTRUCTURE (FORMED SURFACES)	3"
C.I.P. TRAFFIC RAILINGS (FRONT & BACK)	2½"

3. CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES.

4. PROVIDE ¾" CHAMFERS ON ALL EXPOSED EDGES EXCEPT AS NOTED OTHERWISE.

JOINTS IN CONCRETE:

CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED IN THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE APPROVAL OF THE ENGINEER.

REINFORCING STEEL:

1. REINFORCING STEEL: CARBON STEEL PER SPECIFICATIONS SECTION 931.
2. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BAR EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF REINFORCING.
3. REINFORCING BAR LIST DETAIL DIMENSIONS ARE OUT-TO-OUT. SEE STANDARD INDEX NO. 21300 FOR ADDITIONAL DETAILS.

SCOUR:

SCOUR HAS BEEN CONSIDERED IN THE DESIGN OF THE PILES WITH SCOUR ELEVATIONS BASED ON THE DESIGN FLOOD. THE SCOUR ELEVATIONS ARE SHOWN IN THE "PILE DATA TABLE". UNDER NO CIRCUMSTANCES SHALL FINAL TIP INSTALLATIONS BE ABOVE THE MINIMUM TIP ELEVATIONS SHOWN.

PLAN DIMENSIONS:

1. ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS AND JOINT OPENINGS IN THE STRUCTURE ARE MEASURED AT A MEAN TEMPERATURE OF 70 DEGREES F.

EXISTING BRIDGE CONSTRUCTION CONSIDERATIONS:

DIMENSION VERIFICATION: THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGE ARE NOT AVAILABLE. VERIFY THE EXISTING BRIDGE DIMENSIONS AND ELEVATIONS BEFORE BEGINNING CONSTRUCTION.

UTILITIES:

FOR PLAN LOCATION OF EXISTING UTILITIES, SEE PLAN AND ELEVATION SHEET. LOCATION OF UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. FOR DISPOSITION OF UTILITIES, SEE THE UTILITY ADJUSTMENT SHEETS IN THE ROADWAY PLANS.

SCREEDING C.I.P. COMPOSITE TOPPING:

1. SCREED THE RIDING SURFACE OF THE BRIDGE TOPPING AND APPROACH SLABS TO ACHIEVE THE FINISH GRADE ELEVATIONS SHOWN IN THE PLANS. ACCOUNT FOR THEORETICAL DEFLECTIONS DUE TO SELF WEIGHT, TOPPING CASTING SEQUENCE, CONSTRUCTION LOADS AND OVERLAYS, ETC. AS REQUIRED.
2. BRIDGE TOPPING AND APPROACH SLAB SHALL BE GROOVED IN ACCORDANCE WITH THE SPECIFICATIONS.

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 08/15	OKALOOSA COUNTY PUBLIC WORKS	SHEET TITLE: GENERAL NOTES (1 OF 2)	REF. DWG. NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						CHECKED BY: GIE 08/15	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						DESIGNED BY: ANB 08/15		OKALOOSA	433910-2-58-01	STEELE ROAD OVER PENNY CREEK	B-02
						CHECKED BY: FFB 05/18					

FREDERICK F. BRAERMAN, P.E. (No. 71026)
JMT-JOHNSON, MIRMIRAN & THOMPSON
615 CRESCENT EXECUTIVE COURT,
SUITE 106
LAKE MARY, FL 32746
PHONE 407-833-9898
CERTIFICATE OF AUTHORIZATION No.: 5917

GENERAL NOTES (CONTINUED)

C.I.P. COMPOSITE TOPPING CONCRETE PLACEMENT:

1. THOROUGHLY CLEAN THE TOP SURFACE OF THE FSB'S OF ALL DIRT, DUST AND OTHER FOREIGN MATERIAL WITH WATER OR AIR UNDER PRESSURE.
2. THOROUGHLY SATURATE THE TOP SURFACE OF THE FSB'S WITH WATER IN ACCORDANCE WITH SPECIFICATION 400 FOR 12 HOURS IMMEDIATELY PRIOR TO PLACING THE C.I.P. TOPPING. REMOVE STANDING WATER PRIOR TO PLACING THE C.I.P. TOPPING.
3. CURE THE C.I.P. TOPPING IN ACCORDANCE WITH THE SPECIFICATION 400 REQUIREMENTS FOR BRIDGE DECKS.

CONCRETE SURFACE FINISH:

APPLY A CLASS 2 SURFACE FINISH TO THE PORTIONS OF THE STRUCTURE SHOWN ON THE SURFACE FINISH DETAIL. APPLY A CLASS 4 DECK FINISH TO THE C.I.P. TOPPING AS SHOWN ON THE SURFACE FINISH DETAIL.

BRIDGE NAME AND NUMBER:

PLACE THE FOLLOWING BRIDGE NAME AND NUMBER ON THE TRAFFIC RAILINGS IN ACCORDANCE WITH THE TRAFFIC RAILING DESIGN STANDARDS:

BRIDGE NAME	BRIDGE NUMBER
STEELE ROAD OVER PENNY CREEK	574190

TEMPORARY TRAFFIC CONTROL PLANS:

SEE THE ROADWAY PLANS FOR TEMPORARY TRAFFIC CONTROL PLANS.

REMOVAL OF EXISTING BRIDGE:

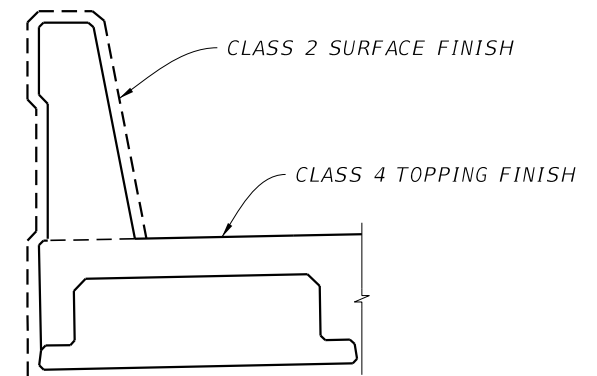
1. THE EXISTING BRIDGE SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIFICATIONS.
2. ASBESTOS SURVEY: AN ASBESTOS SURVEY WAS COMPLETED AND FOUND NO ASBESTOS CONTAINING MATERIALS.
3. LEAD BASED PAINT: FOLLOW THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA). SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. DISPOSAL OF HAZARDOUS MATERIALS: REFER TO THE SPECIFICATIONS FOR DISPOSAL OF HAZARDOUS MATERIALS.
5. TIMBER PILES: REFER TO THE SPECIFICATION FOR DISPOSAL OF TREATED WOOD.

ABBREVIATIONS

- E DENOTES "EXPANSION"
- EJ DENOTES "EXPANSION JOINT"
- EF DENOTES "EACH FACE"
- EJB DENOTES "EMBEDDED JUNCTION BOX"
- FSB DENOTES "FLORIDA SLAB BEAM"
- L.M.E. DENOTES "LOW MEMBER ELEVATION"
- M.V.C. DENOTES "MINIMUM VERTICAL CLEARANCE"
- PREF. DENOTES "PREFORMED"
- PSC. DENOTES "PRESTRESSED CONCRETE"
- UNO DENOTES "UNLESS NOTED OTHERWISE"

PAY ITEM NOTES:

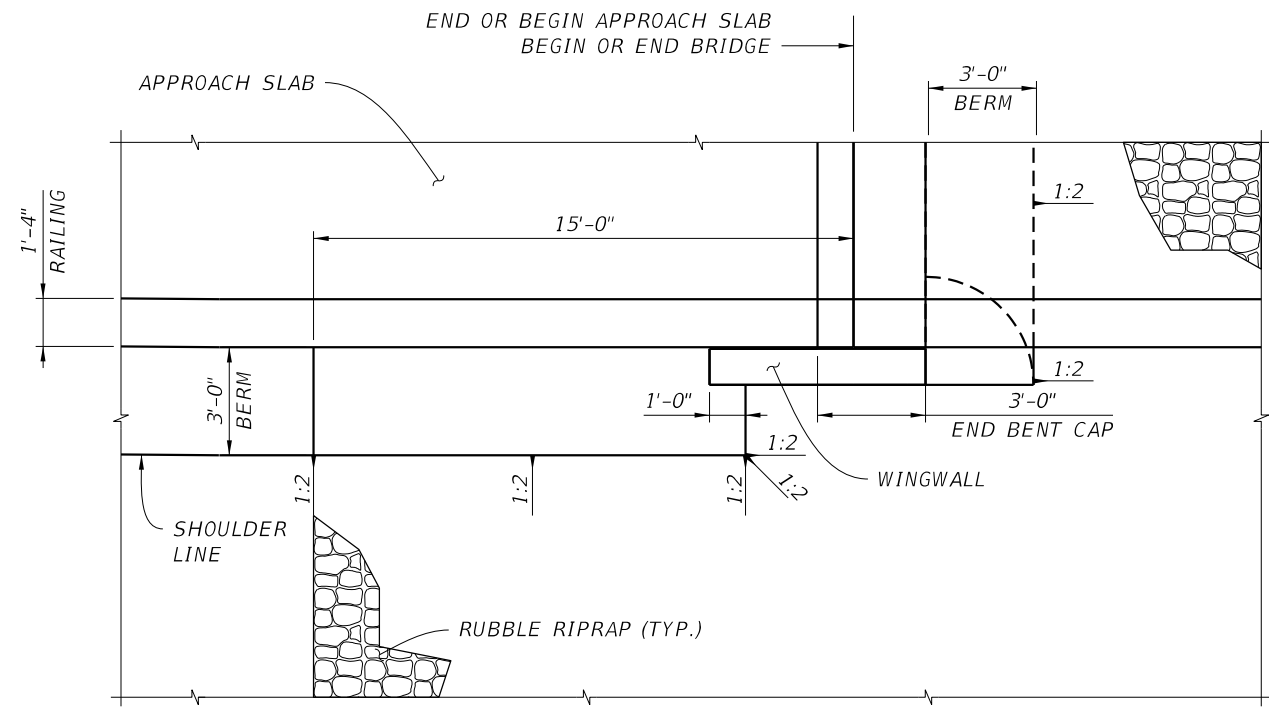
1. PAY ITEM NO. 400-2-47, CONCRETE CLASS II, C.I.P. TOPPING WITH SHRINKAGE REDUCING ADMIXTURE INCLUDES THE COST TO FURNISH AND INSTALL THE LONGITUDINAL BACKER RODS BETWEEN THE BEAMS.
2. PAY ITEM NO. 415-1-4, REINFORCING STEEL SUPERSTRUCTURE, INCLUDES ALL LABOR, EQUIPMENT, MATERIALS, ETC. REQUIRED TO FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL.



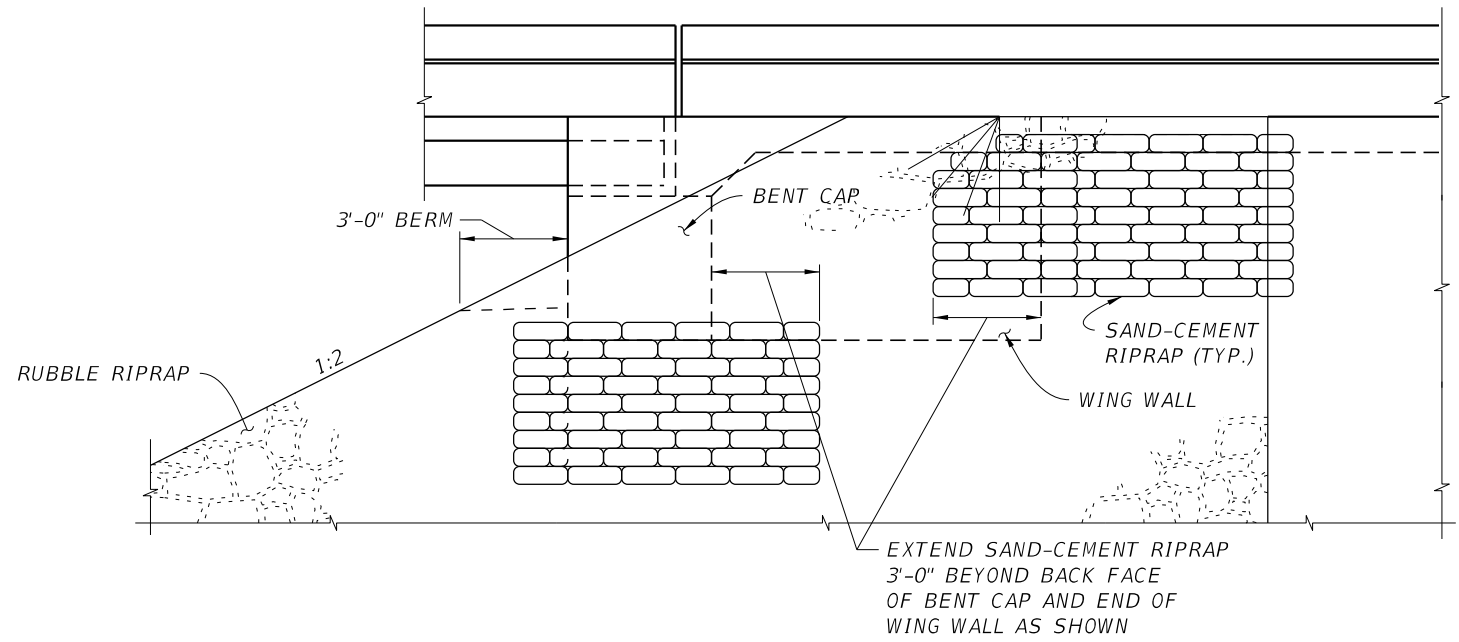
SURFACE FINISH DETAIL

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 08/15	OKALOOSA COUNTY PUBLIC WORKS	SHEET TITLE: GENERAL NOTES (2 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						CHECKED BY: GIE 08/15 DESIGNED BY: ANB 08/15 CHECKED BY: FFB 05/18	ROAD NO. COUNTY OKALOOSA FINANCIAL PROJECT ID 433910-2-58-01	PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO. B-03
FREDERICK F. BRAERMAN, P.E. (No. 71026) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917						TShine 6/21/2018 3:33:00 PM Q:\LMFL\FDOT_Projects\140988_Steele Rd\43391015201\struct\B01GeneralNotes02.DGN			THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



DETAIL A



PARTIAL SIDE ELEVATION

NOTES:

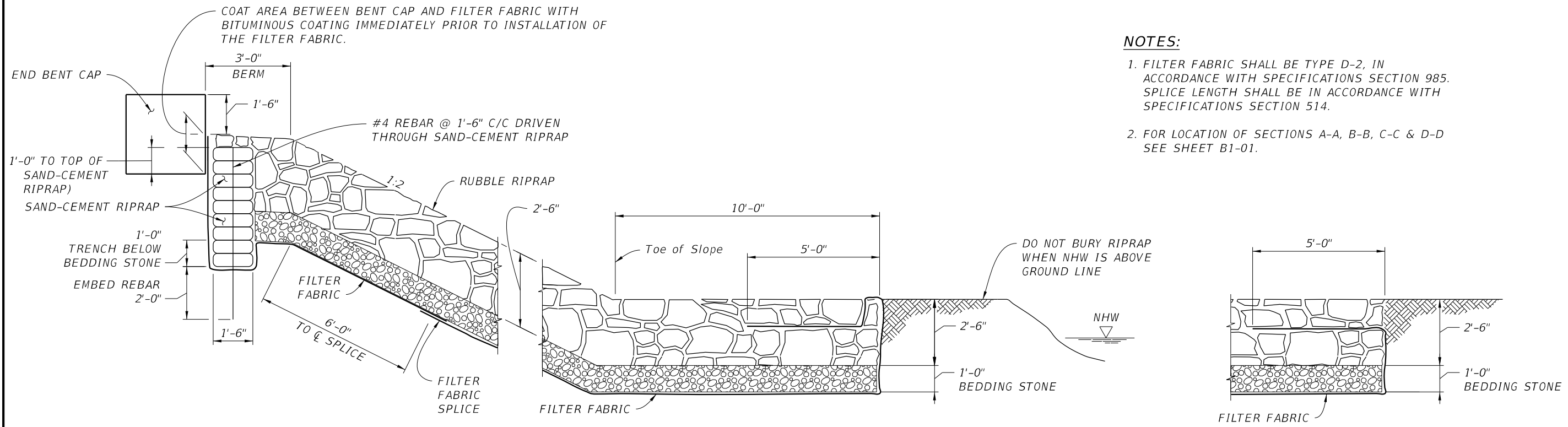
1. FOR LOCATION OF DETAIL A, SEE SHEET B1-01

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 11/15	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: RUBBLE RIPRAP SLOPE PROTECTION DETAILS (1 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: GIE 11/15				PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO.
						DESIGNED BY: ANB 11/15		OKALOOSA	433910-2-58-01		B-04
						CHECKED BY: FFB 05/18					

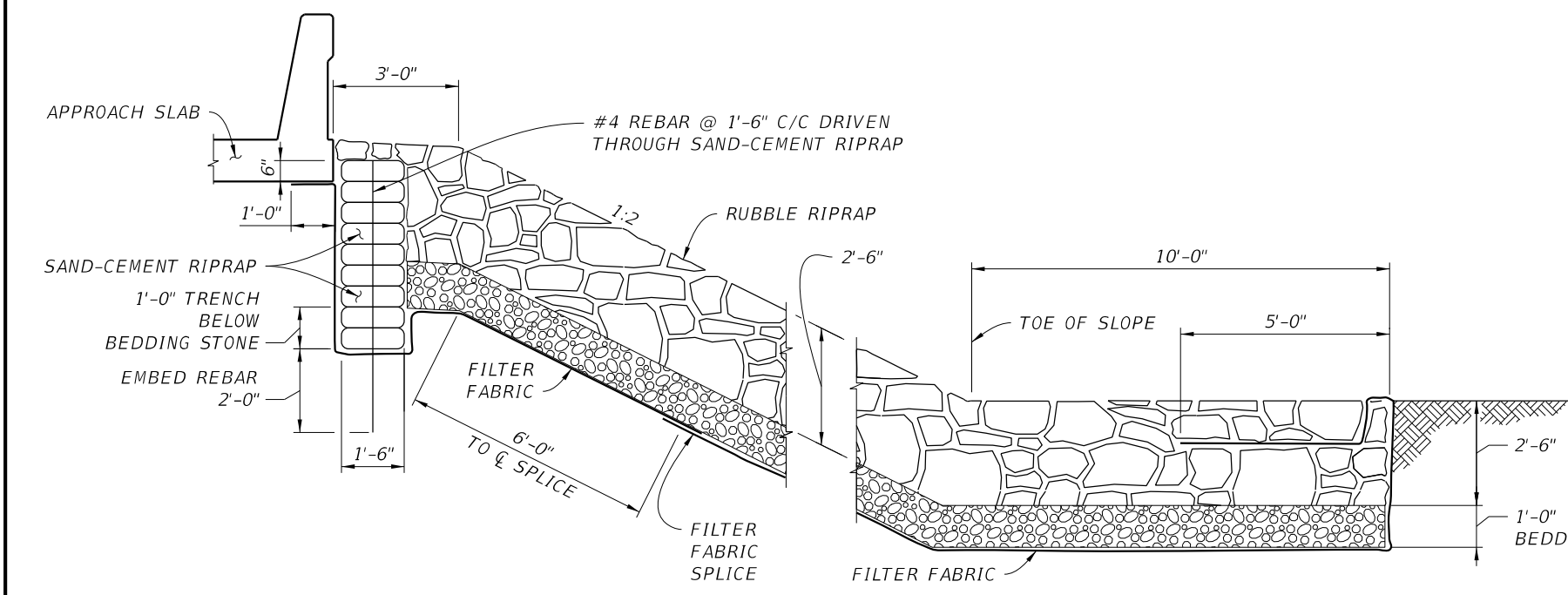
FREDERICK F. BRAERMAN, P.E. (No. 71026)
 JMT-JOHNSON, MIRMIRAN & THOMPSON
 615 CRESCENT EXECUTIVE COURT,
 SUITE 106
 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

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

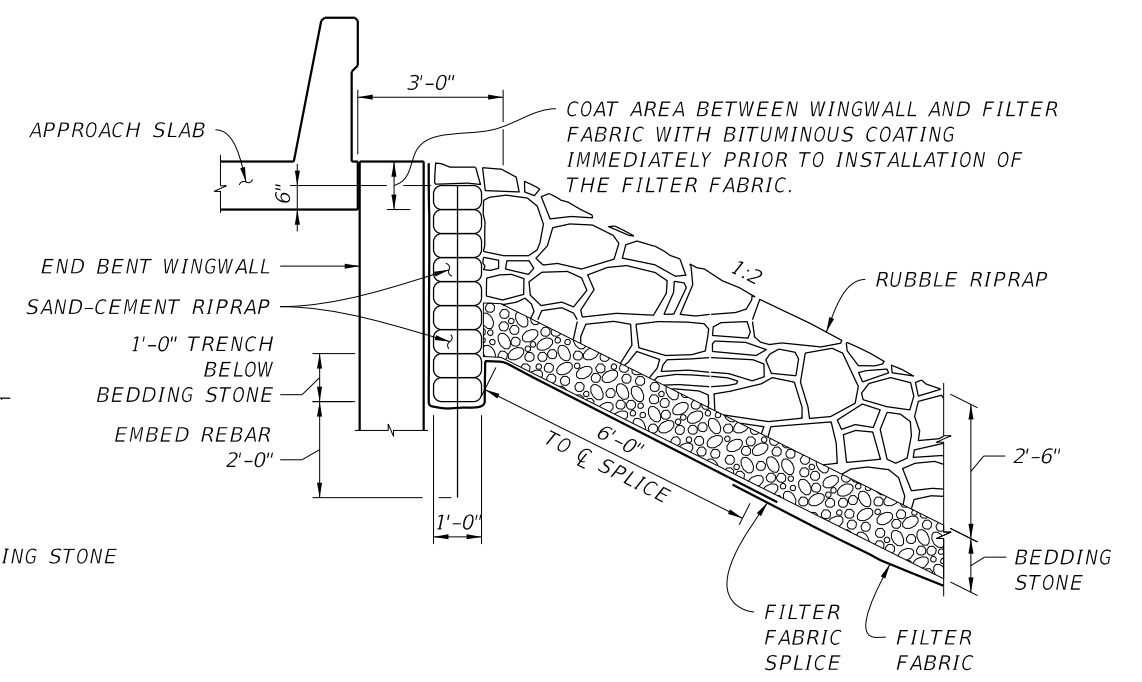


SECTION A-A

SECTION C-C



SECTION B-B



SECTION D-D

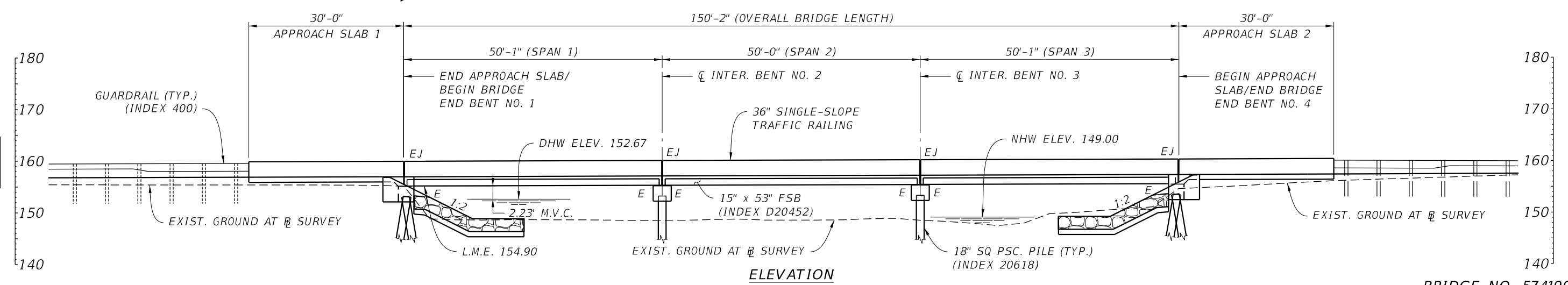
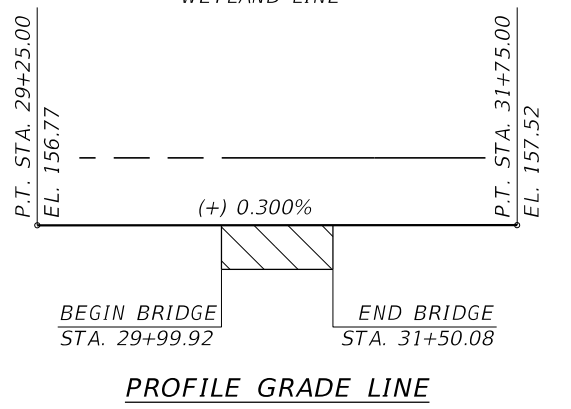
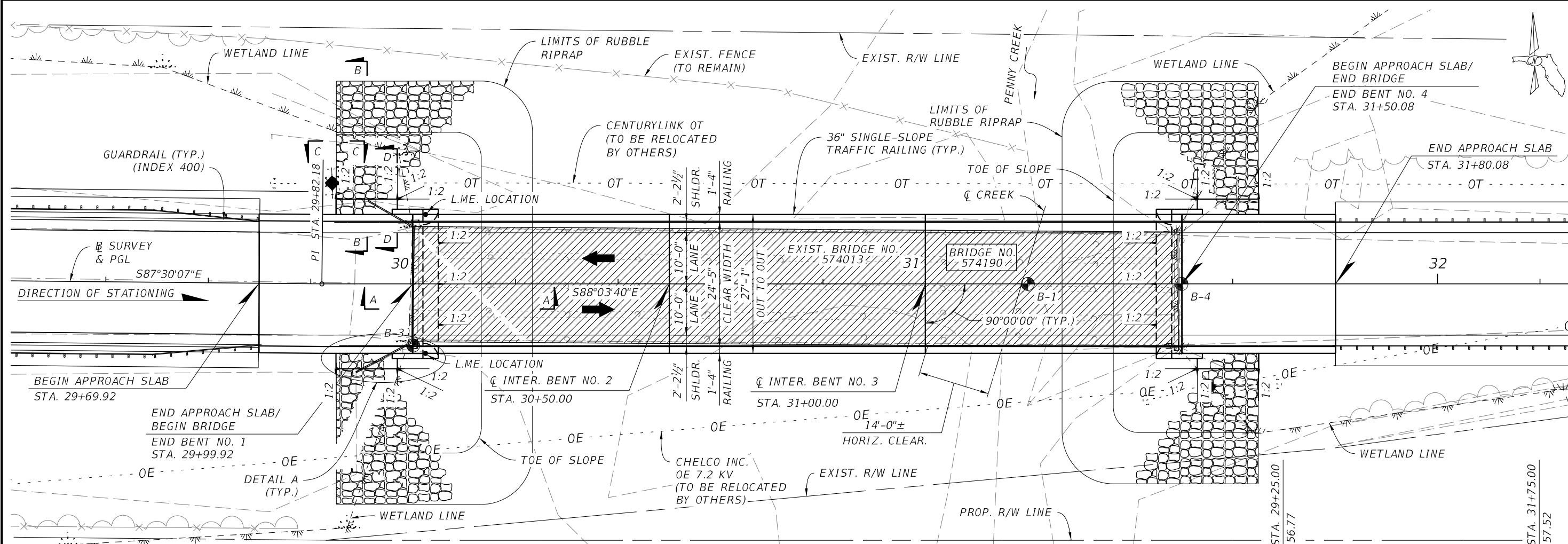
NOTES:

1. FILTER FABRIC SHALL BE TYPE D-2, IN ACCORDANCE WITH SPECIFICATIONS SECTION 985. SPLICE LENGTH SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 514.
2. FOR LOCATION OF SECTIONS A-A, B-B, C-C & D-D SEE SHEET B1-01.

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 11/15	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: RUBBLE RIPRAP SLOPE PROTECTION DETAILS (2 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: GIE 11/15				PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO.
						DESIGNED BY: ANB 11/15	OKALOOSA	433910-2-58-01	B-05		
						CHECKED BY: FFB 05/18					

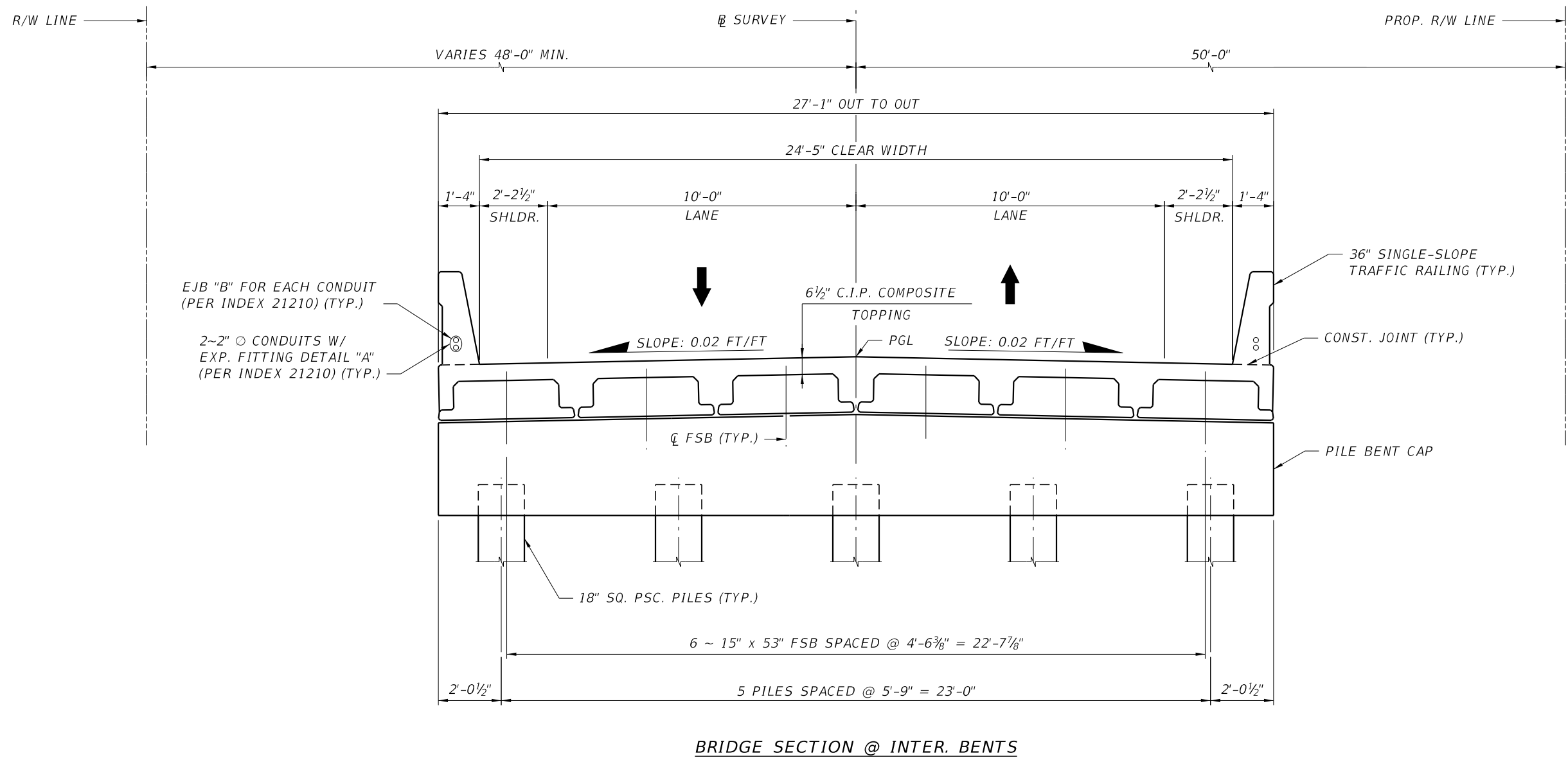
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 02/16 CHECKED BY: GIE 02/16 DESIGNED BY: ANB 02/16 CHECKED BY: FFB 05/18	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: PLAN AND ELEVATION PROJECT NAME: STEELE ROAD OVER PENNY CREEK	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								OKALOOSA	433910-2-58-01		

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



BRIDGE SECTION @ INTER. BENTS

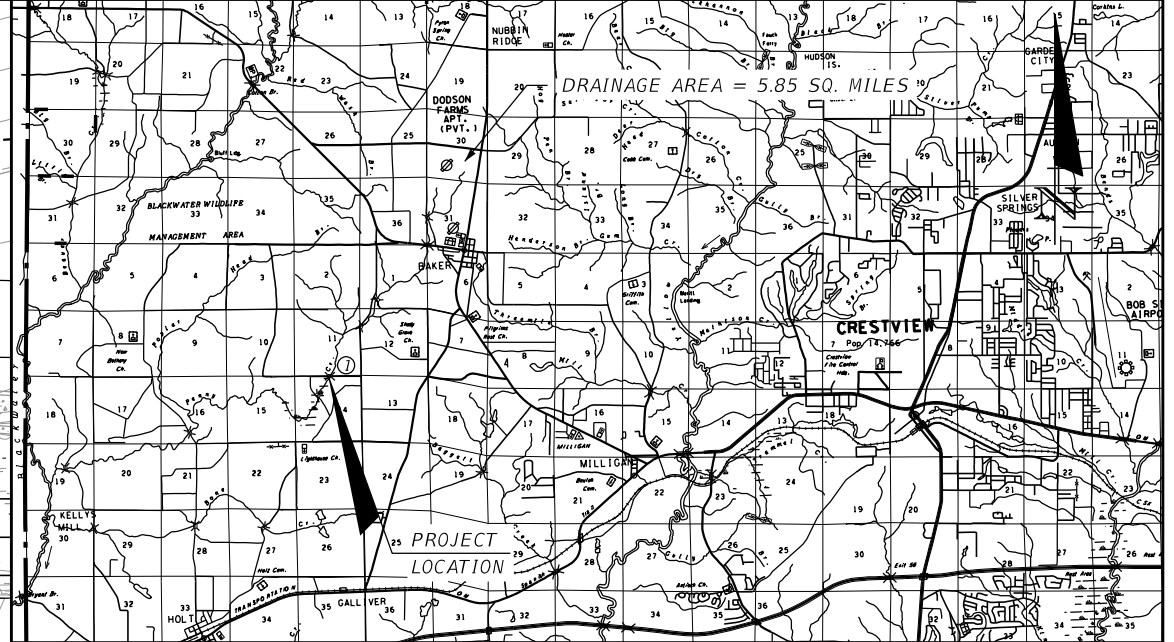
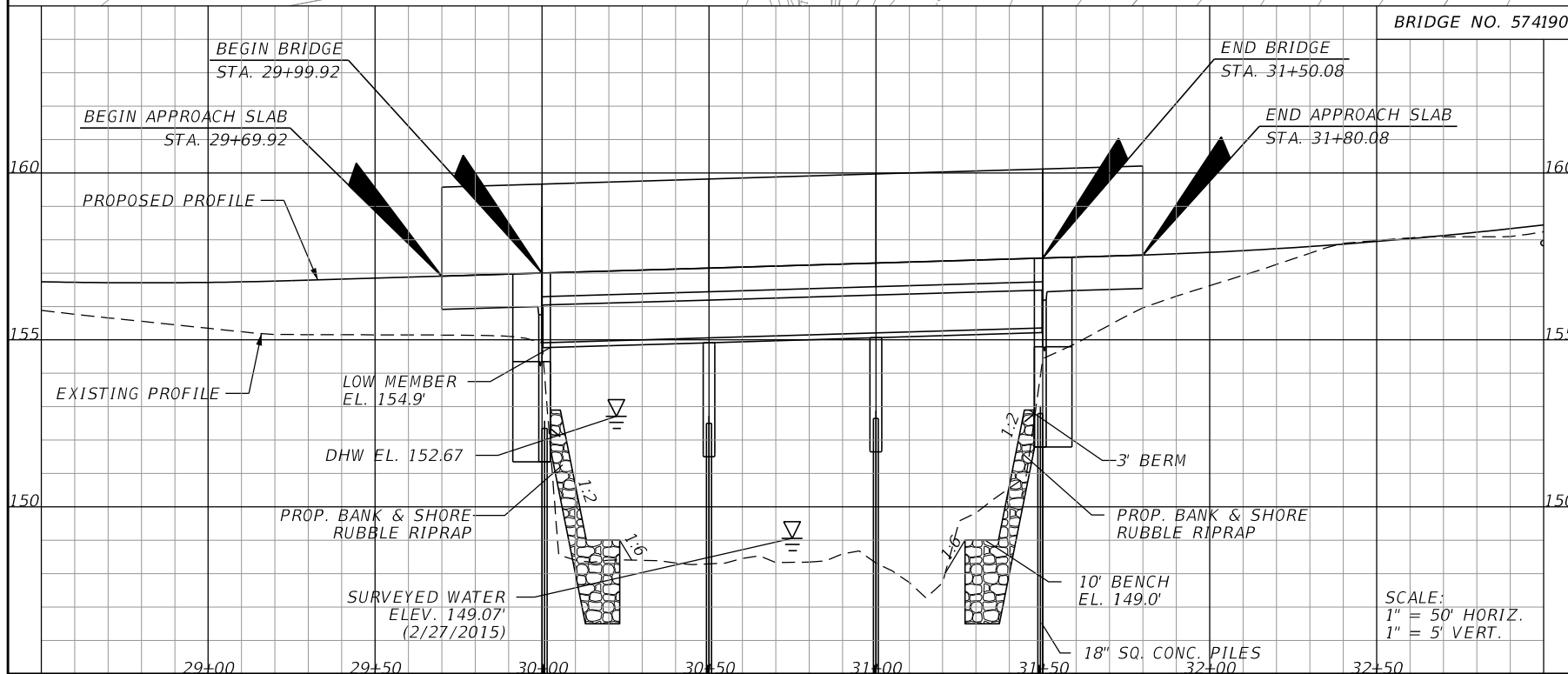
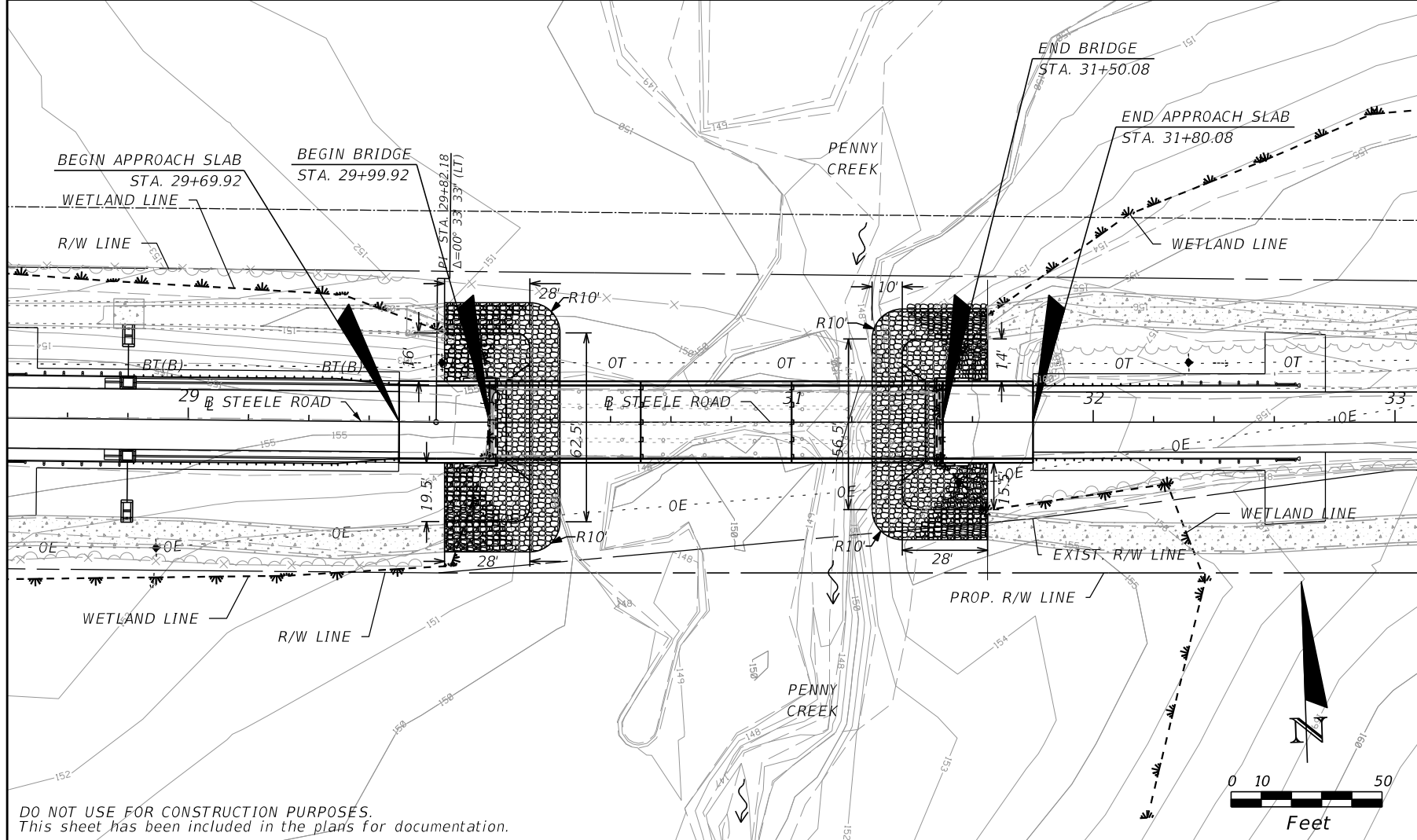
NOTES

- 1. FOR INTERMEDIATE BENT ELEVATIONS AND ADDITIONAL DETAILS, SEE SHEET B1-10

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 08/15 CHECKED BY: GIE 08/15 DESIGNED BY: ANB 08/15 CHECKED BY: FFB 05/18	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
							OKALOOSA	433910-2-58-01	BRIDGE SECTION			
									STEELE ROAD OVER PENNY CREEK		B1-02	

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



(REFERENCE)	STEELE RD.	EXISTING STRUCTURES	PROPOSED STRUCTURE
FOUNDATION	(1) TIMBER	(2) W. DODSON TIMBER	(3) (4) CONCRETE
OVERALL LENGTH	150.6'	89	150.17'
SPAN LENGTH	10 @ 15'	6 @ 14.8'	3 @ 50' ±
TYPE CONSTRUCTION	STEEL GRATE	TIMBER	CONCRETE
AREA OF OPENING@D.F.	540 SQ. FT.	346 SQ. FT.	520.9 SQ. FT.
BRIDGE WIDTH	23.3'	24'	27'-1"
ELEV. LOW MEMBER	152.8'	147.23'	154.9'

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 antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

TERMS:
Design Flood: Utilized to assure a desired level of hydraulic performance.
Base Flood: Has a 1% chance of being exceeded in any given year (100 year 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.

HYDRAULIC DESIGN DATA

WATER SURFACE ELEVATIONS: N.H.W. (Non-Tidal) 149.0'(Rem. 1) M.H.W. (Tidal) _____
CONTROL (Non-Tidal) _____ M.L.W. (Tidal) _____

FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD	<input type="checkbox"/> OVERTOPPING or <input checked="" type="checkbox"/> GREATEST FLOOD
STAGE ELEV. NAVD (ft)		152.67	153.13	153.61
DISCHARGE (cfs)		1424	1815	2258
AVERAGE VELOCITY (f/s)		3.36	3.77	4.17
EXCEEDANCE PROB. (%)		4	2	1
FREQUENCY (yr.)		25	50	100

SCOUR PREDICTIONS FOR PROPOSED STRUCTURE DESCRIBED ABOVE:

PIER INFORMATION	TOTAL SCOUR ELEVATION		
	LONG TERM SCOUR ELEV.	WORST CASE < 100 yr. FREQ. (yr.)	WORST CASE < 500 yr. FREQ. (yr.)
NUMBERS			
2	18" SQ. CONC. PILES	N/A	144.65
3	18" SQ. CONC. PILES	N/A	144.47

HYDRAULIC RECOMMENDATIONS

1. BEGIN BRIDGE STATION 29+99.92 END BRIDGE STATION 31+50.08 SKEW ANGLE 0 DEG.
2. CLEARANCE PROVIDED: NAV: HORIZ. _____ VERT. _____ ABOVE EL. _____ DRIFT: HORIZ. 47' VERT. 2.23' ABOVE EL. 152.67'
3. MINIMUM CLEARANCE: NAV: HORIZ. _____ VERT. _____ ABOVE EL. _____ DRIFT: HORIZ. 15' VERT. 2.0' ABOVE EL. 152.67'
4. ABUTMENTS:

	BEGIN BRIDGE	END BRIDGE
RUBBLE GRADE:	<u>BANK & SHORE RUBBLE RIPRAP</u>	<u>BANK & SHORE RUBBLE RIPRAP</u>
SLOPE:	<u>1:2</u>	<u>1:2</u>
BURIED OR NON-BURIED HORIZ. TOE:	<u>NON-BURIED</u>	<u>NON-BURIED</u>
TOE HORIZ. DISTANCE:	<u>10'</u>	<u>10'</u>
LIMIT OF PROTECTION:	<u>15' LT. & RT.</u>	<u>15' LT. & RT.</u>

5. DECK DRAINAGE: RUNOFF WILL BE COLLECTED IN INLETS LOCATED BEFORE BRIDGE.

REMARKS: (1) N.H.W. RANGE ESTIMATED FROM FIELD DATA.

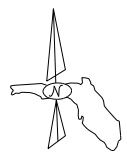
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

The Balmoral Group
165 Lincoln Avenue
Winter Park, FL 32789
Phone: (407) 629-2185
www.balmoralgroup.us
Certificate of Authorization No. 26123
E.O.R.: Jennifer A. Nunn, P.E. No. 70709

OKALOOSA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OKALOOSA	433910-2-58-01

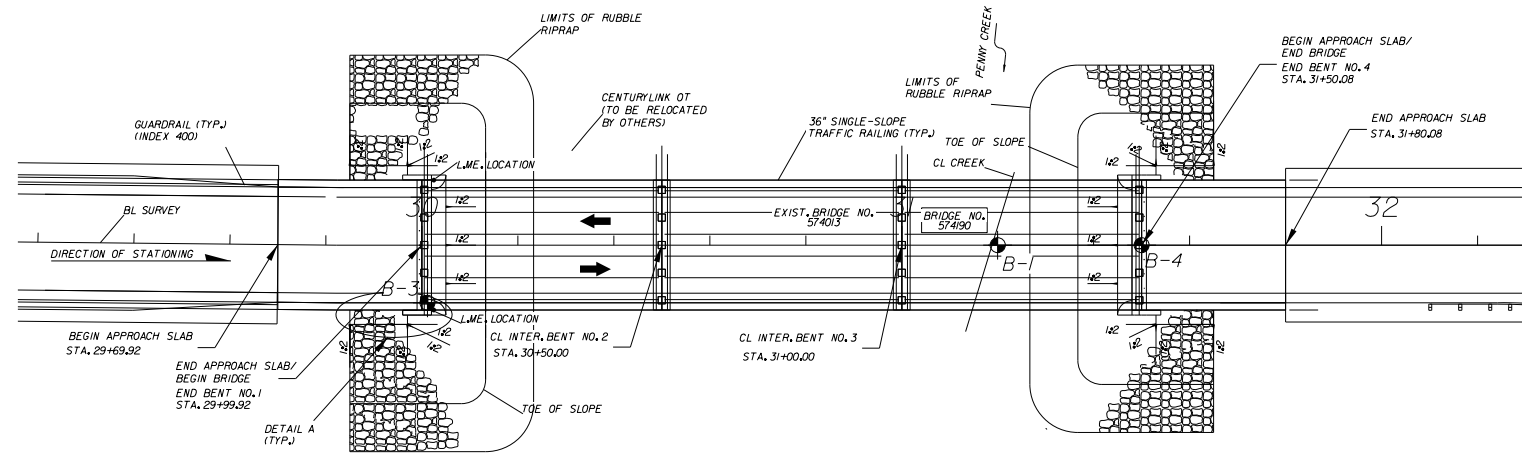
BRIDGE HYDRAULIC RECOMMENDATIONS		SHEET NO.
		B1-03

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



LEGEND

APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING



LEGEND

	SAND		CLAYEY SAND
	SILTY SAND		CLAY
	SILT		SILTY CLAY
	SANDY CLAY		

(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL

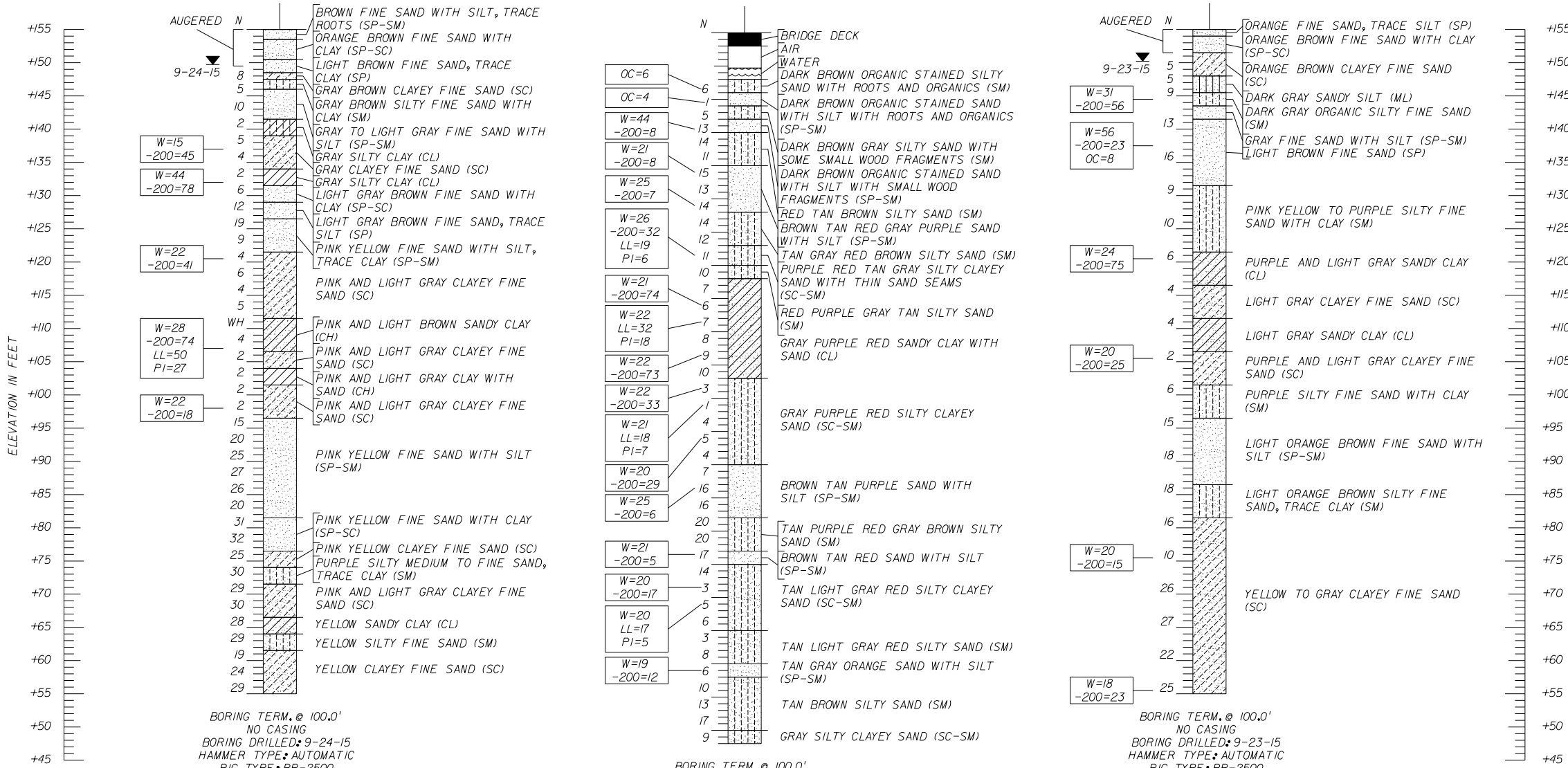
8-11-II ENCOUNTERED GROUNDWATER LEVEL (DATE OF READING)

W=0	NATURAL MOISTURE CONTENT (%)
-200=0	FINES PASSING No. 200 SIEVE (%)
OC=0	ORGANIC CONTENT (%)
LL=0	LIQUID LIMIT (%)
PI=0	PLASTICITY INDEX (%)

BORING No. B-3
 STATION: 30+00
 OFFSET: 12' RT.
 LATITUDE: 30.770498
 LONGITUDE: -86.716017
 ELEVATION: +155.0'

BORING No. B-1
 STATION: 31+20
 OFFSET: CENTERLINE
 LATITUDE: 30.770494
 LONGITUDE: -86.715631
 BRIDGE DECK ELEVATION: +154.5'

BORING No. B-4
 STATION: 31+50
 OFFSET: CENTERLINE
 LATITUDE: 30.770491
 LONGITUDE: -86.715544
 ELEVATION: +155.0'



BORING TERM. @ 100.0'
 NO CASING
 BORING DRILLED: 9-24-15
 HAMMER TYPE: AUTOMATIC
 RIG TYPE: BR-2500

BORING TERM. @ 100.0'
 3" CASING TO 20.0'
 BORING DRILLED: 4-21-15
 HAMMER TYPE: AUTOMATIC
 RIG TYPE: BR-2500

BORING TERM. @ 100.0'
 NO CASING
 BORING DRILLED: 9-23-15
 HAMMER TYPE: AUTOMATIC
 RIG TYPE: BR-2500

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED

WH SAMPLING SPOON FELL UNDER WEIGHT OF ROD AND HAMMER

DRILLED BY: TERRACON

AUTOMATIC HAMMER

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	1 3/8 in.
SPOON OUTSIDE DIA.	2 in.
ASTM STANDARD DROP	30 in.
AVG. HAMMER DROP	140 lbs.
HAMMER WEIGHT	

GRANULAR MATERIALS

RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILTS AND CLAYS

CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

NOTES:

1) LAYER BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL LAYERS AT EACH TEST HOLE LOCATION ONLY. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED.

ENVIRONMENTAL CLASSIFICATION:

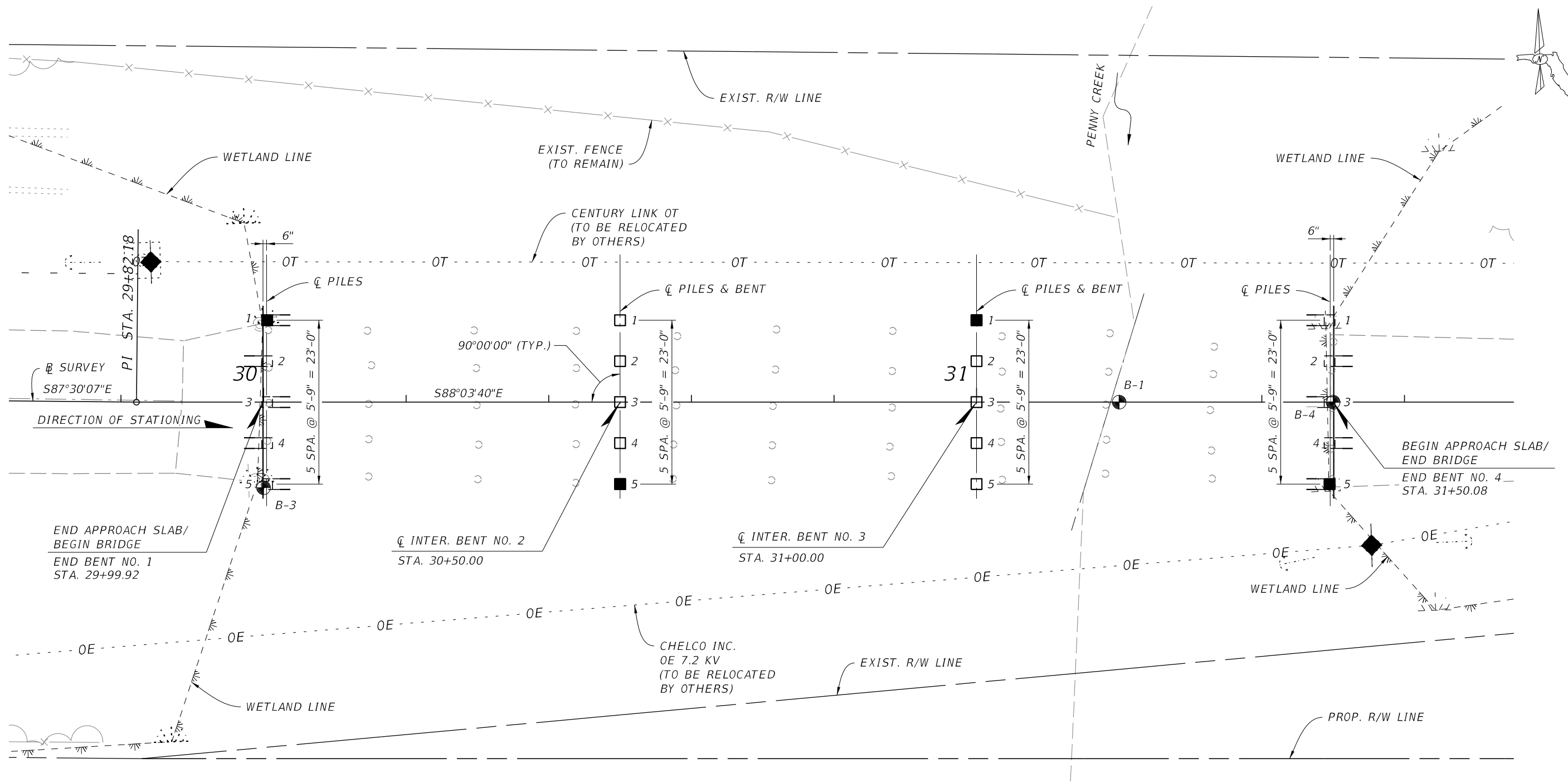
SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE

SUBSTRUCTURE:
 STEEL: EXTREMELY AGGRESSIVE (pH<6.0)
 CONCRETE: MODERATELY AGGRESSIVE

BRIDGE NO. 574190

REVISIONS						JOHN B. KIMBERLY IV, P.E. P.E. LICENSE NUMBER 49866 9655 W. FLORIDA MINING BOULEVARD-SUITE 509 JACKSONVILLE, FLORIDA 32257 TERRACON CERTIFICATE OF AUTHORIZATION No. 8830	DRAWN BY: AS 12-2-15 CHECKED BY: TS 12-2-15 DESIGNED BY: CHECKED BY:	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: REPORT OF CORE BORINGS FOR BRIDGE	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							OKALOOSA	433910-2-58-01	STEELE ROAD OVER PENNY CREEK	B1-04		

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



PLAN

LEGEND

- APPROX. SPT BORING LOCATION
- PROP. 18" SQ PREST. CONC. PILES
- PROP. 18" SQ PREST. CONC. TEST PILES
- EXIST. TIMBER PILES (TO BE REMOVED)
- PROP. 18" SQ PREST. CONC. BATTERED PILES 1:6
- PROP. 18" SQ PREST. CONC. BATTERED TEST PILES

NOTES:

1. COMPLETELY EXTRACT ALL EXISTING TIMBER PILES.
2. SEE SHEET B-03 FOR ADDITIONAL NOTES.

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 08/15 CHECKED BY: GIE 08/15 DESIGNED BY: ANB 08/15 CHECKED BY: FFB 05/18	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	FOUNDATION LAYOUT		
								OKALOOSA	433910-2-58-01	STEELE ROAD OVER PENNY CREEK		
						FREDERICK F. BRAERMAN, P.E. (No. 71026) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917					SHEET NO.	
											B1-05	

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

PILE DATA TABLE

TABLE DATE 01/01/16

INSTALLATION CRITERIA								DESIGN CRITERIA								PILE CUT-OFF ELEVATIONS				
PIER OR BENT NUMBER	PILE SIZE (IN.)	NOMINAL BEARING RESISTANCE (TONS)	NOMINAL UPLIFT RESISTANCE (TONS)	MINIMUM TIP ELEVATION (FT.)	TEST PILE LENGTH (FT.)	REQUIRED JET ELEVATION (FT.)	REQUIRED PREFORM ELEVATION (FT.)	FACTORED DESIGN LOAD (TONS)	FACTORED DESIGN UPLIFT LOAD (TONS)	DOWN DRAG (TONS)	TOTAL SCOUR RESISTANCE (TONS)	NET SCOUR RESISTANCE (TONS)	100-YEAR SCOUR ELEVATION (FT.)	Ø COMPRESSION	Ø UPLIFT	PILE 1	PILE 2	PILE 3	PILE 4	PILE 5
END BENT NO. 1	18	128	N/A	N/A	90	N/A	N/A	83	N/A	0	N/A	N/A	N/A	0.65	N/A	152.8	152.8	152.8	152.8	152.8
INTER. BENT NO. 2	18	162	N/A	110	105	N/A	N/A	100	N/A	N/A	5	5	144	0.65	N/A	153.0	153.0	153.0	153.0	153.0
INTER. BENT NO. 3	18	162	N/A	110	105	N/A	N/A	100	N/A	N/A	5	5	144	0.65	N/A	153.1	153.1	153.1	153.1	153.1
END BENT NO. 4	18	128	N/A	N/A	90	N/A	N/A	83	N/A	0	N/A	N/A	N/A	0.65	N/A	153.3	153.3	153.3	153.3	153.3

$$\frac{\text{FACTORED DESIGN LOAD} + \text{NET SCOUR RESISTANCE} + \text{DOWN DRAG}}{\phi} \leq \text{NOMINAL BEARING RESISTANCE}$$

UPLIFT RESISTANCE - THE ULTIMATE SIDE FRICTION CAPACITY THAT MUST BE OBTAINED BELOW THE 100 YEAR SCOUR ELEVATION TO RESIST PULLOUT OF THE PILE (SPECIFY ONLY WHEN DESIGN REQUIRES TENSION CAPACITY).

TOTAL SCOUR RESISTANCE - AN ESTIMATE OF THE ULTIMATE STATIC SIDE FRICTION RESISTANCE PROVIDED BY THE SCOUR ABLE SOIL.

NET SCOUR RESISTANCE - AN ESTIMATE OF THE ULTIMATE STATIC SIDE FRICTION RESISTANCE PROVIDED BY THE SOIL FROM THE REQUIRED PREFORMED OR JETTING ELEVATION TO THE SCOUR ELEVATION.

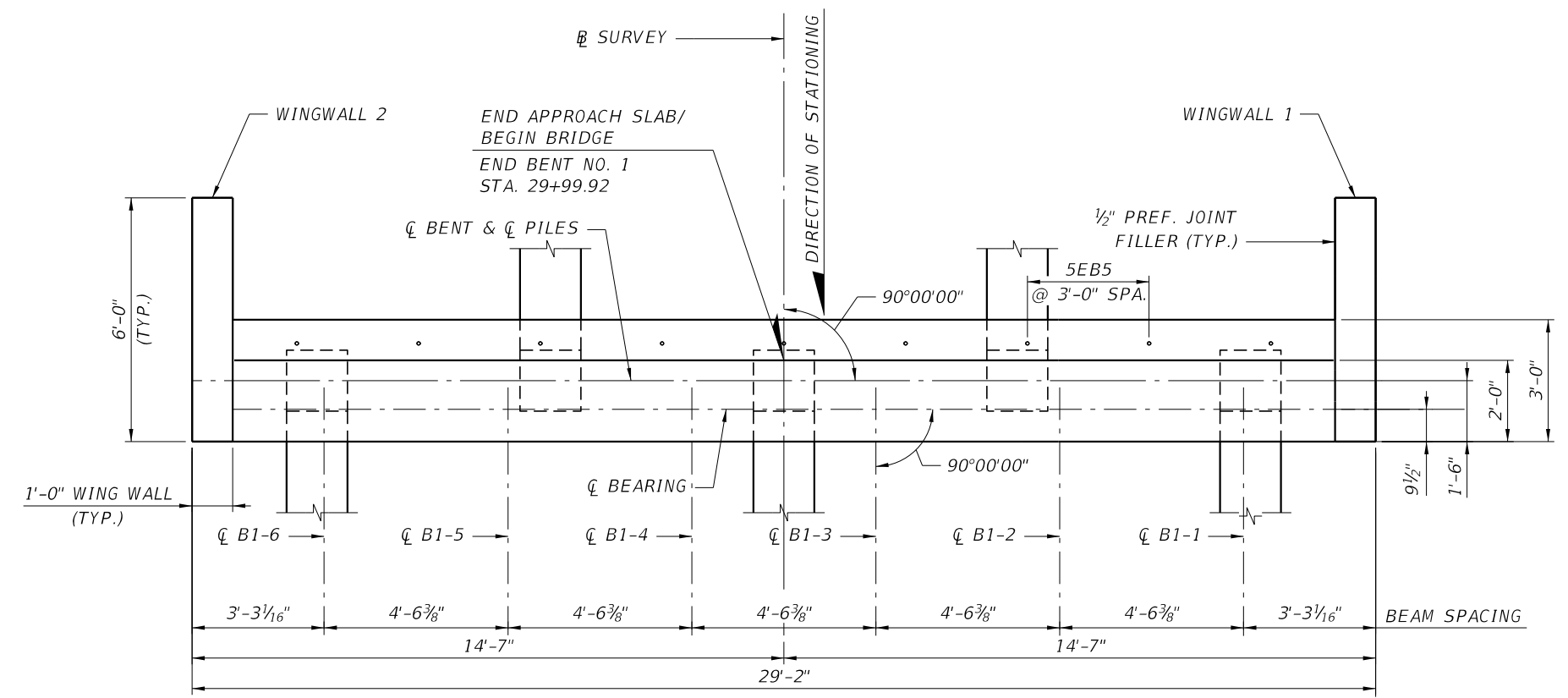
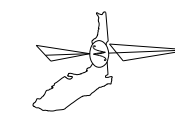
100-YEAR SCOUR ELEVATION - ESTIMATED ELEVATION OF SCOUR DUE TO THE 100 YEAR STORM EVENT.

PILE INSTALLATION NOTES:

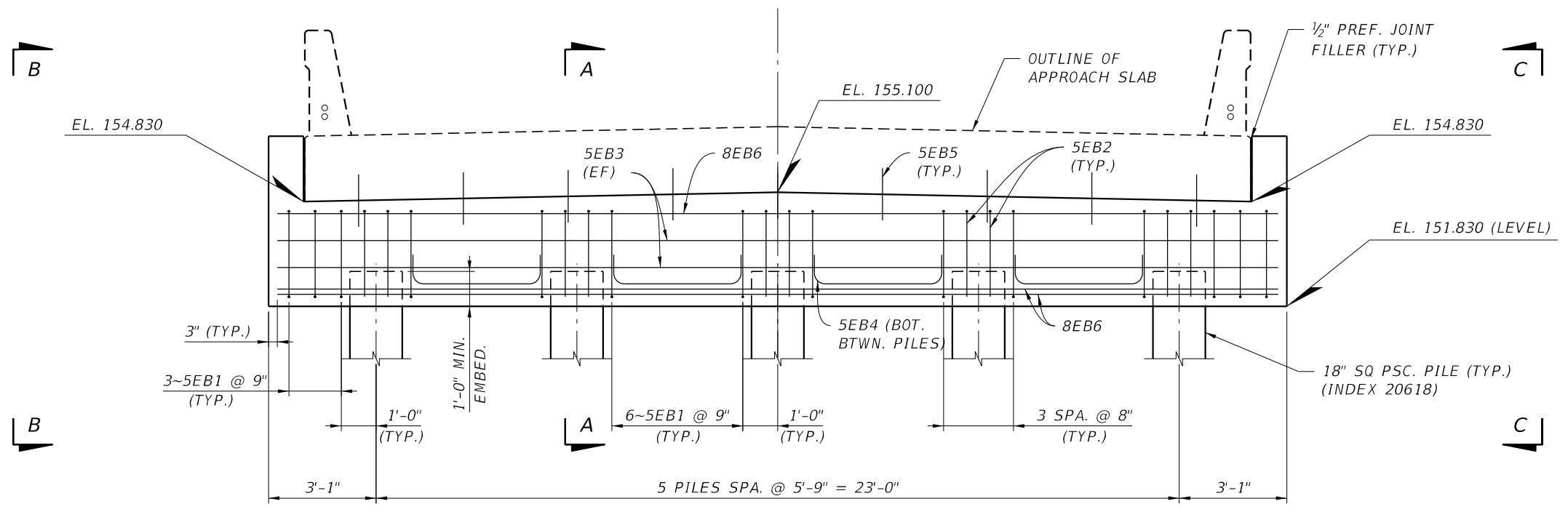
1. VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY PILE INSTALLATION ACTIVITIES.
2. MINIMUM TIP ELEVATION IS REQUIRED FOR LATERAL STABILITY.
3. NO JETTING WILL BE ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER.
4. AT EACH BENT, PILE DRIVING IS TO COMMENCE FROM THE TEST PILE LOCATION AND PROCEED OUTWARD.
5. SET CHECKS AND/OR PILE REDRIVES MAY BE REQUIRED TO ACHIEVE THE NOMINAL BEARING RESISTANCE AND SHOULD BE ANTICIPATED.

BRIDGE NO. 574190

REVISIONS						FREDERICK F. BRAERMAN, P.E. (No. 71026) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	DRAWN BY: ANB 08/15			OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.		
									OKALOOSA	433910-2-58-01	STEELE ROAD OVER PENNY CREEK		B1-06		



PLAN



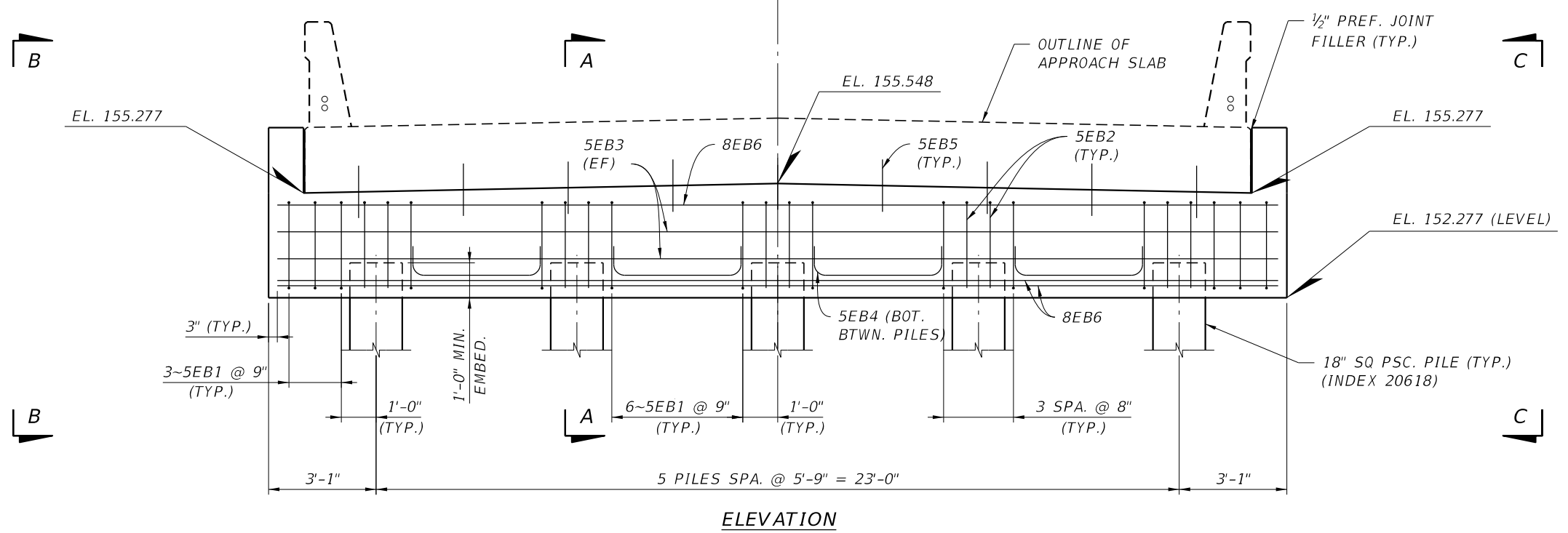
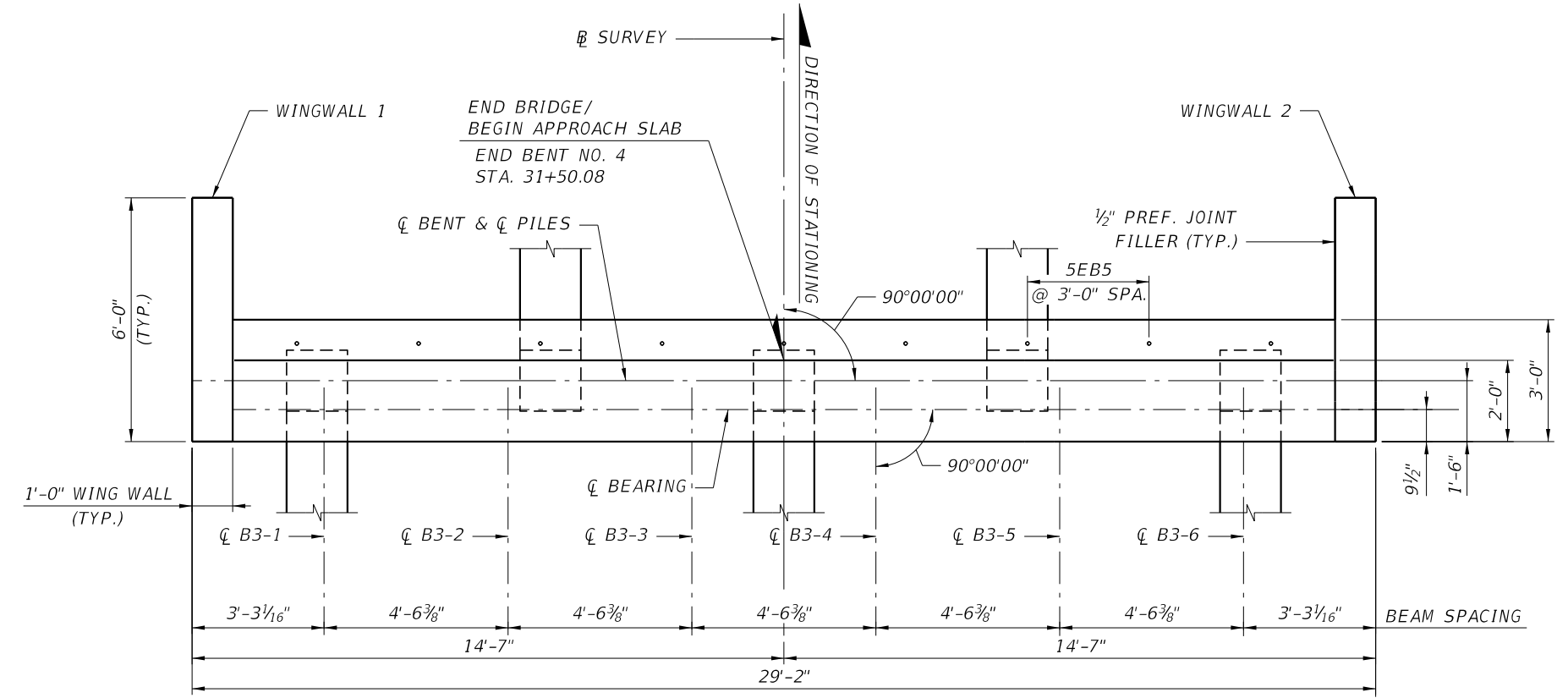
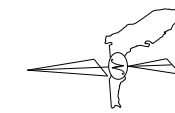
ELEVATION

- NOTES:**
- FOR SECTION A-A AND VIEWS B-B AND C-C, SEE SHEET B1-09

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 11/15	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: END BENT NO. 1	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: GIE 11/15				PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO.
						DESIGNED BY: ANB 11/15	OKALOOSA	433910-2-58-01	B1-07		
FREDERICK F. BRAERMAN, P.E. (No. 71026) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917						CHECKED BY: FFB 05/18					

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NOTES:
 1. FOR SECTION A-A AND VIEWS B-B AND C-C, SEE SHEET B1-09

BRIDGE NO. 574190

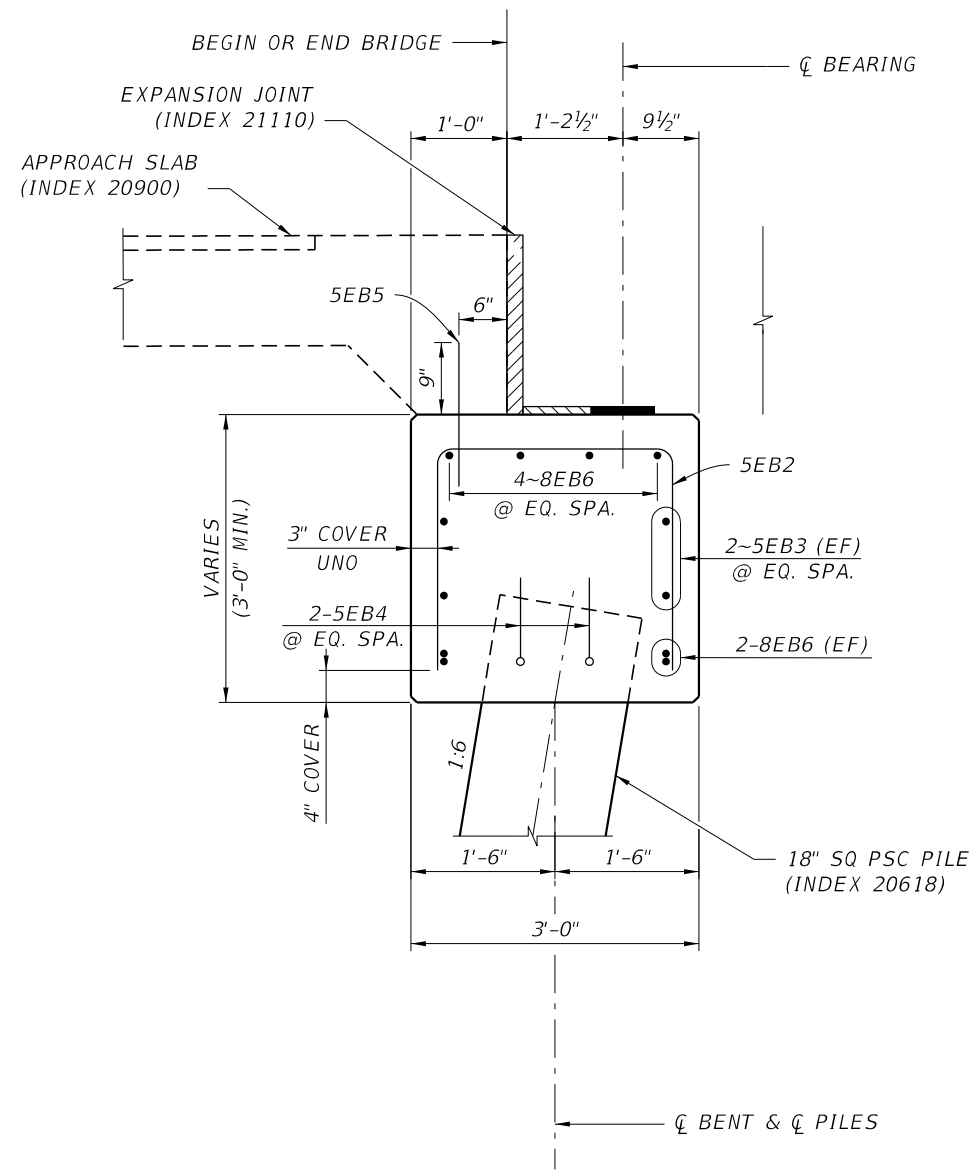
REVISIONS						DRAWN BY: ANB 11/15	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: END BENT NO. 4	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: GIE 11/15				PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO.
						DESIGNED BY: ANB 11/15	OKALOOSA	433910-2-58-01	B1-08		
						CHECKED BY: FFB 05/18					

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 SUITE 106
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 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

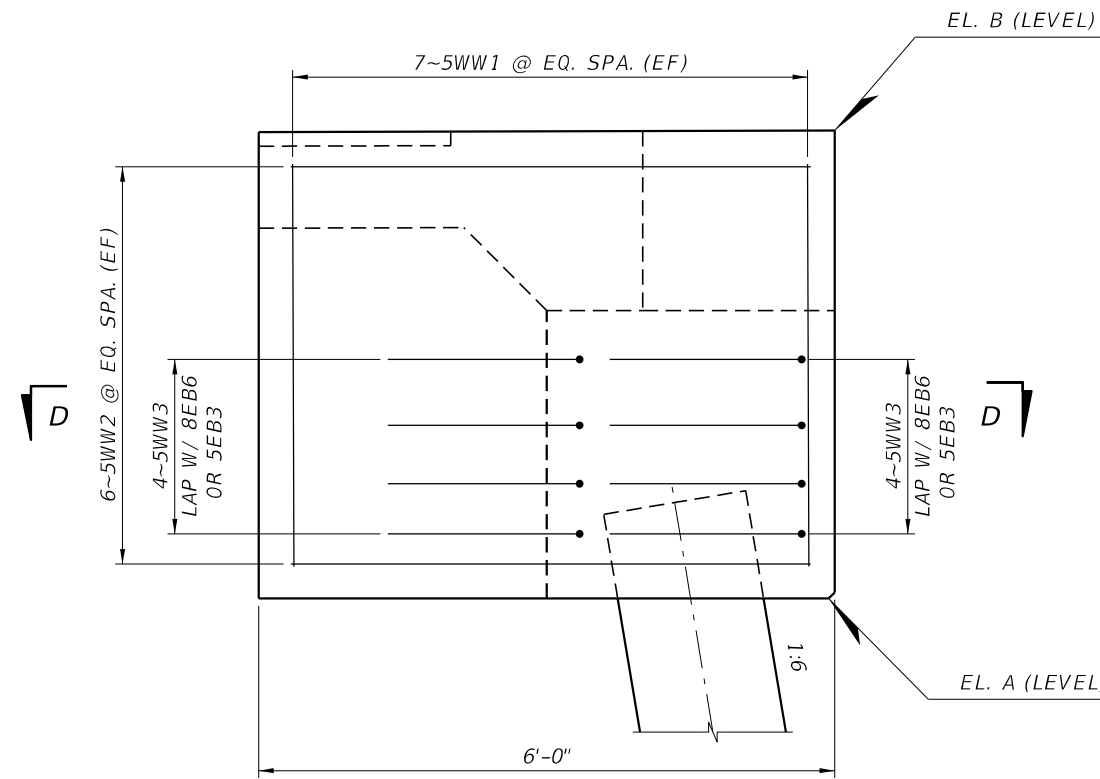
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

TABLE OF ELEVATIONS		
LOCATION	EL. A	EL. B
END BENT 1 - WINGWALL 1	151.830	156.724
END BENT 1 - WINGWALL 2	151.830	156.724
END BENT 4 - WINGWALL 1	152.277	157.174
END BENT 4 - WINGWALL 2	152.277	157.174

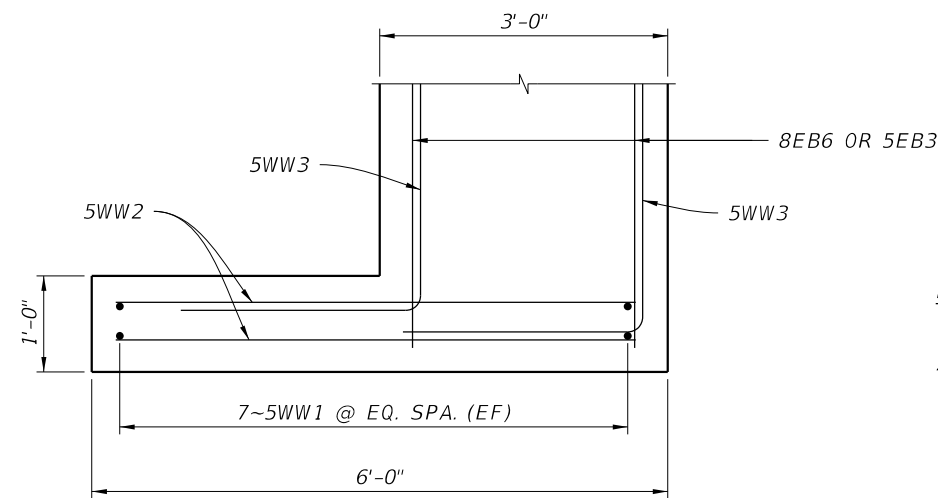


SECTION A-A



VIEW B-B

(VIEW C-C SIMILAR BUT OPPOSITE HAND)



SECTION D-D

(WINGWALL 2 SHOWN
WINGWALL 1 SIMILAR)

NOTES:

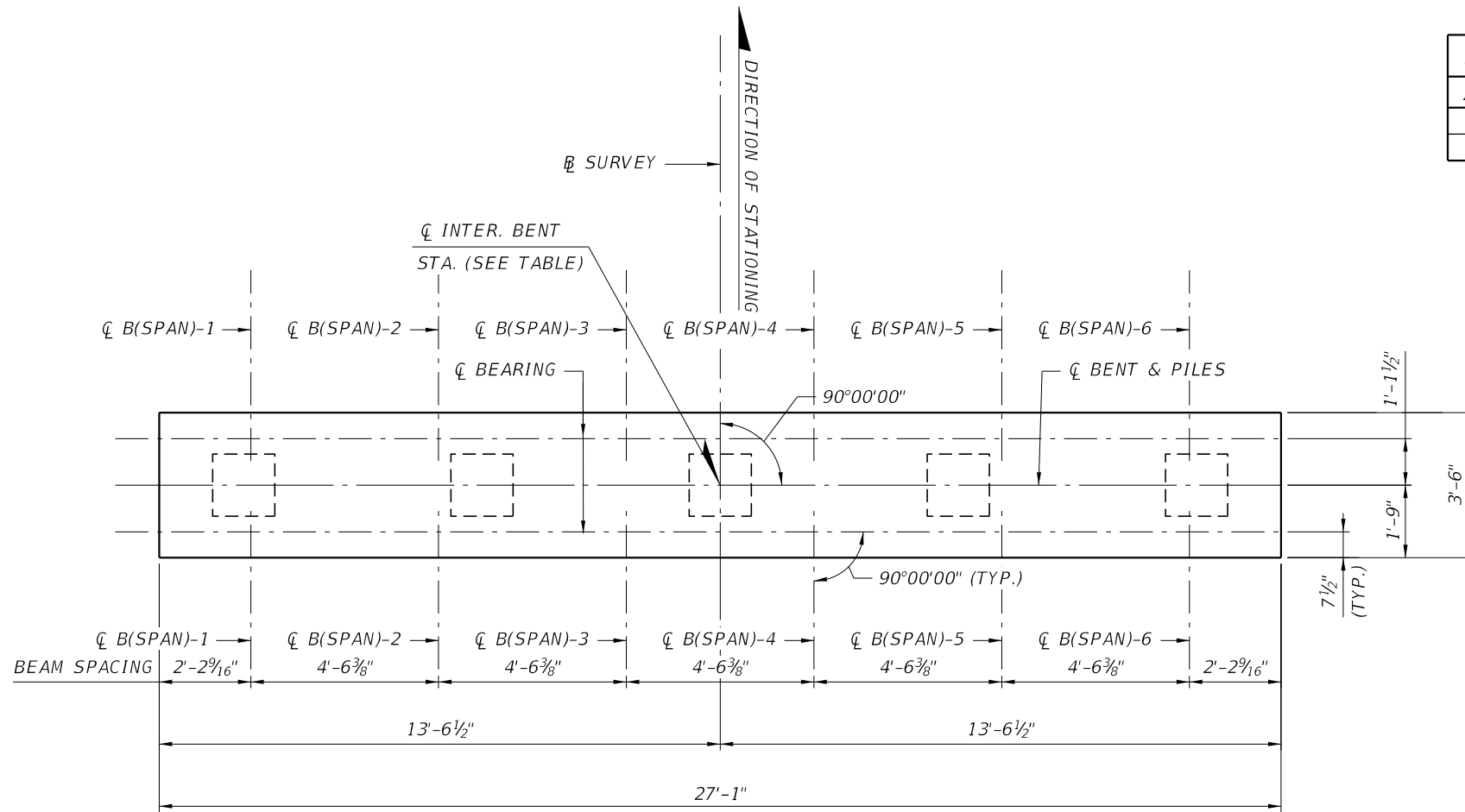
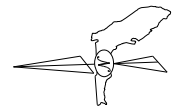
1. FOR CONCRETE COVER, SEE SHEET B-02
2. FOR LOCATION OF SECTION A-A AND VIEW B-B, SEE SHEETS B1-07 AND B1-08

BRIDGE NO. 574190

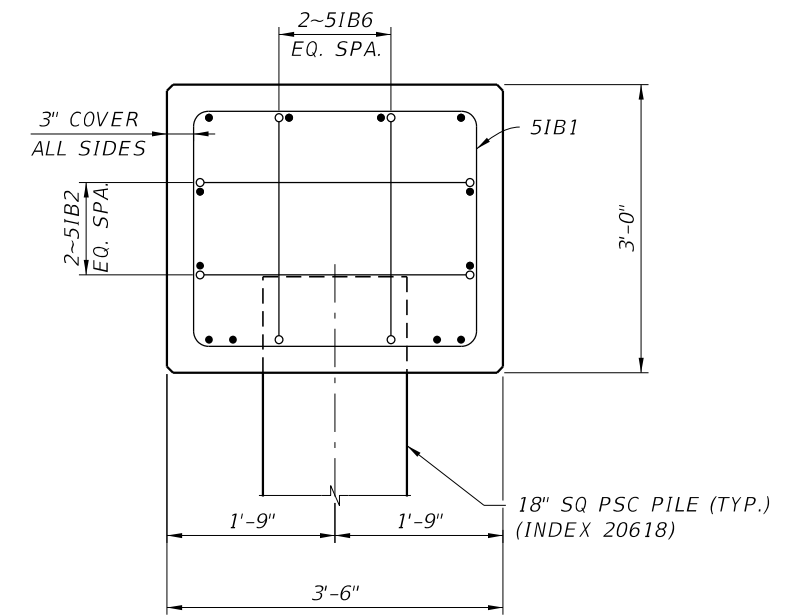
REVISIONS						DRAWN BY: GIE 11/15	OKALOOSA COUNTY PUBLIC WORKS	SHEET TITLE: END BENT DETAILS	REF. DWG. NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						CHECKED BY: ANB 11/15	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO. B1-09
						DESIGNED BY: ANB 11/15		OKALOOSA	433910-2-58-01		
						CHECKED BY: FFB 05/18					

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615 CRESCENT EXECUTIVE COURT,
SUITE 106
LAKE MARY, FL 32746
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CERTIFICATE OF AUTHORIZATION No.: 5917

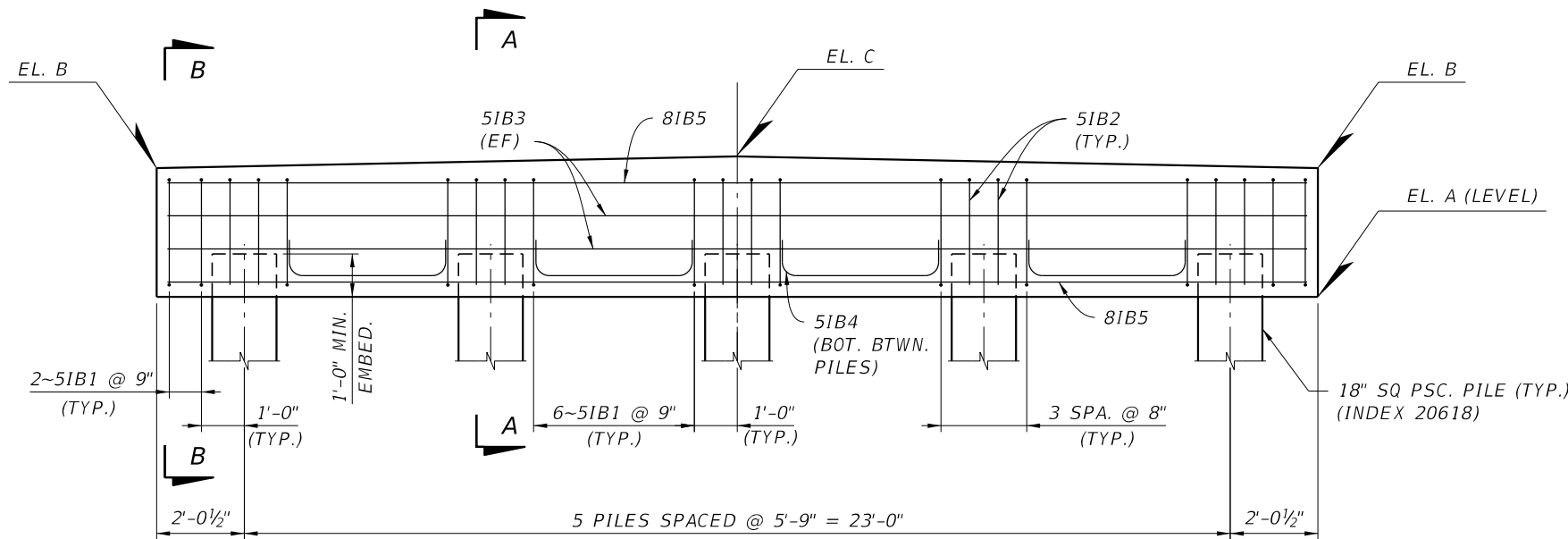
INTERMEDIATE BENT STATIONS & ELEVATIONS				
INTER. BENT NO.	STATION	EL. A	EL. B	EL. C
2	30+50.00	151.978	154.978	155.249
3	31+00.00	152.128	155.128	155.399



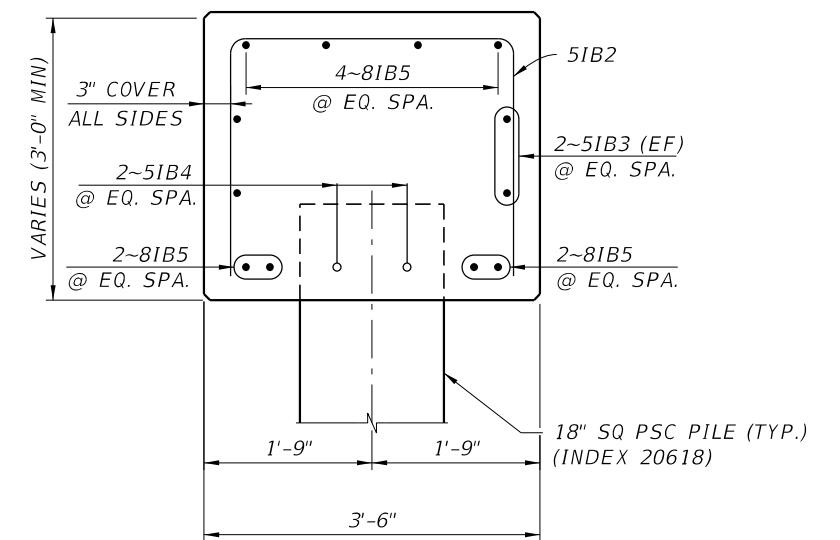
PLAN



SECTION B-B
(SHOWING REBARS AT END FACE OF BENT CAP)



ELEVATION



SECTION A-A

BRIDGE NO. 574190

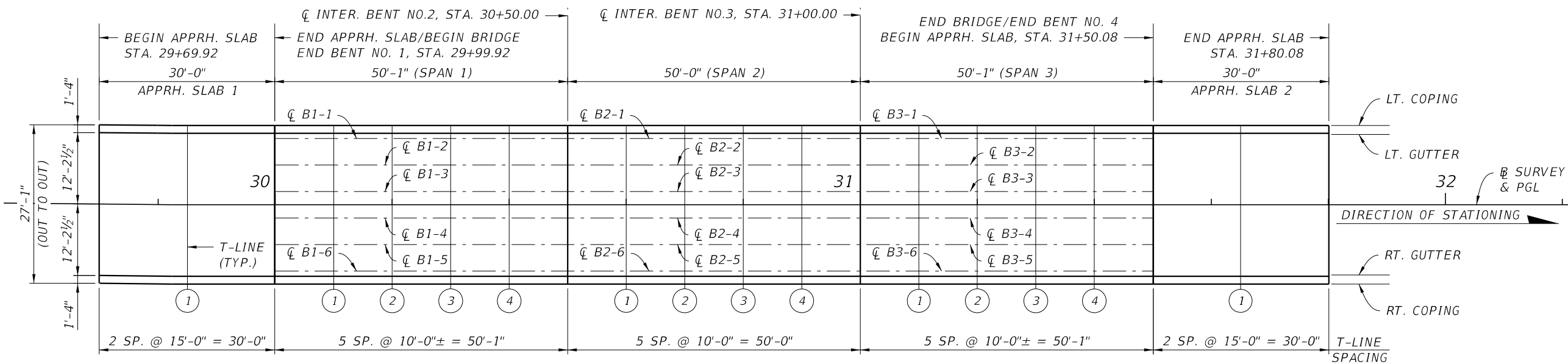
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

FREDERICK F. BRAERMAN, P.E. (No. 71026)
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 LAKE MARY, FL 32746
 PHONE 407-833-9898
 CERTIFICATE OF AUTHORIZATION No.: 5917

DRAWN BY: ANB 11/15	OKALOOSA COUNTY PUBLIC WORKS	
CHECKED BY: GIE 11/15	ROAD NO.	COUNTY
DESIGNED BY: ANB 11/15	OKALOOSA	FINANCIAL PROJECT ID
CHECKED BY: FFB 05/18		433910-2-58-01

SHEET TITLE: INTERMEDIATE BENTS NO. 2 AND 3	REF. DWG. NO.
PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO. B1-10

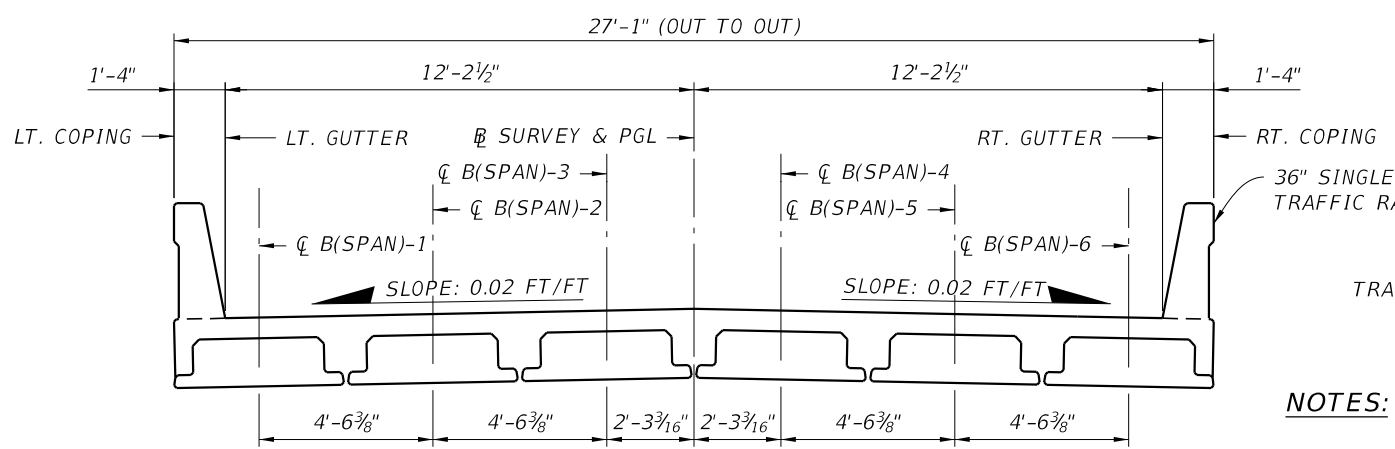
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



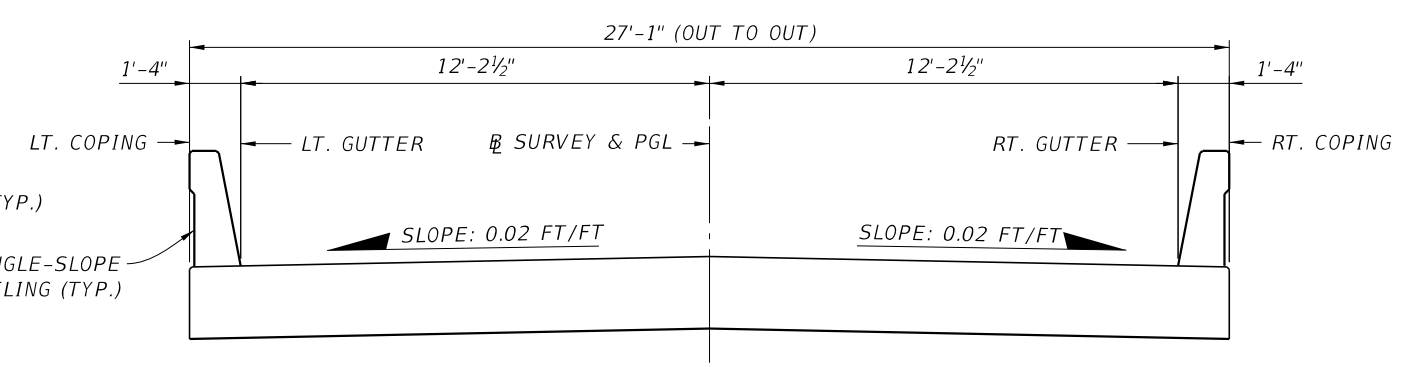
FINISH GRADE ELEVATIONS - SCHEMATIC PLAN VIEW

TABLE OF FINISH GRADE ELEVATIONS

LOCATION	OFFSET FROM PGL (FT)	BEGIN APPRH. SLAB	1	END APPRH. SLAB/ BEGIN BRIDGE	1	2	3	4	CL INTER. BENT NO. 2	1	2	3	4	CL INTER. BENT NO. 3	1	2	3	4	END BRIDGE/ BEGIN APPRH. SLAB	1	END APPRH. SLAB
STATION	-	29+69.92	29+84.92	29+99.92	30+10.00	30+20.00	30+30.00	30+40.00	30+50.00	30+60.00	30+70.00	30+80.00	30+90.00	31+00.00	31+10.00	31+20.00	31+30.00	31+40.00	31+50.08	31+65.08	31+80.08
LT. COPING	-13.5417	156.634	156.679	156.724	156.754	156.784	156.814	156.844	156.874	156.904	156.934	156.964	156.994	157.024	157.054	157.084	157.114	157.144	157.174	157.219	157.264
LT. GUTTER	-12.2083	156.661	156.706	156.751	156.781	156.811	156.841	156.871	156.901	156.931	156.961	156.991	157.021	157.051	157.081	157.111	157.141	157.171	157.201	157.246	157.291
CL B-1	-11.3281	-	-	156.768	156.798	156.828	156.858	156.888	156.918	156.948	156.978	157.008	157.038	157.068	157.098	157.128	157.158	157.188	157.219	-	-
CL B-2	-6.7969	-	-	156.859	156.889	156.919	156.949	156.979	157.009	157.039	157.069	157.099	157.129	157.159	157.189	157.219	157.249	157.279	157.309	-	-
CL B-3	-2.2656	-	-	156.949	156.980	157.010	157.040	157.070	157.100	157.130	157.160	157.190	157.220	157.250	157.280	157.310	157.340	157.370	157.400	-	-
PGL	0.0000	156.905	156.950	156.995	157.025	157.055	157.085	157.115	157.145	157.175	157.205	157.235	157.265	157.295	157.325	157.355	157.385	157.415	157.445	157.490	157.535
CL B-4	2.2656	-	-	156.949	156.980	157.010	157.040	157.070	157.100	157.130	157.160	157.190	157.220	157.250	157.280	157.310	157.340	157.370	157.400	-	-
CL B-5	6.7969	-	-	156.859	156.889	156.919	156.949	156.979	157.009	157.039	157.069	157.099	157.129	157.159	157.189	157.219	157.249	157.279	157.309	-	-
CL B-6	11.3281	-	-	156.768	156.798	156.828	156.858	156.888	156.918	156.948	156.978	157.008	157.038	157.068	157.098	157.128	157.158	157.188	157.219	-	-
RT. GUTTER	12.2083	156.661	156.706	156.751	156.781	156.811	156.841	156.871	156.901	156.931	156.961	156.991	157.021	157.051	157.081	157.111	157.141	157.171	157.201	157.246	157.291
RT. COPING	13.5417	156.634	156.679	156.724	156.754	156.784	156.814	156.844	156.874	156.904	156.934	156.964	156.994	157.024	157.054	157.084	157.114	157.144	157.174	157.219	157.264



FINISH GRADE ELEVATIONS - TYPICAL SECTION THROUGH BRIDGE (LOOKING AHEAD STATION)



FINISH GRADE ELEVATIONS - TYPICAL SECTION THROUGH APPROACH SLAB

NOTES:

1. FINISH GRADE ELEVATIONS FOR APPROACH SLABS ARE MEASURED AT THE TOP OF THE ASPHALT OVERLAY FOR SURVEY ELEVATIONS.

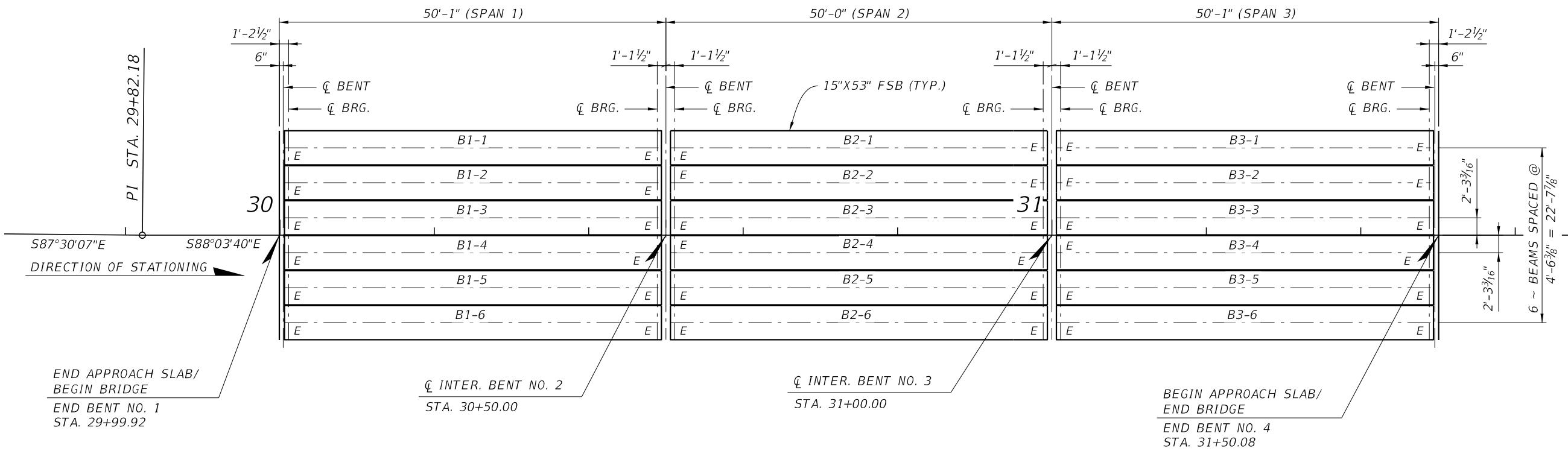
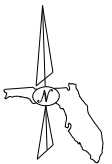
NOTES (CONTINUE):

2. GUTTER AND COPING ELEVATIONS ARE MEASURED AT THE TOP OF CONCRETE UNDER THE TRAFFIC RAILINGS WHICH SHALL BE FLUSH WITH THE TOP OF THE ASPHALT OVERLAY AS SHOWN IN INDEX D20900.

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 11/15			SHEET TITLE: FINISH GRADE ELEVATIONS			REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	OKALOOSA COUNTY PUBLIC WORKS			PROJECT NAME: STEELE ROAD OVER PENNY CREEK			SHEET NO.
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID				B1-11
							OKALOOSA	433910-2-58-01				

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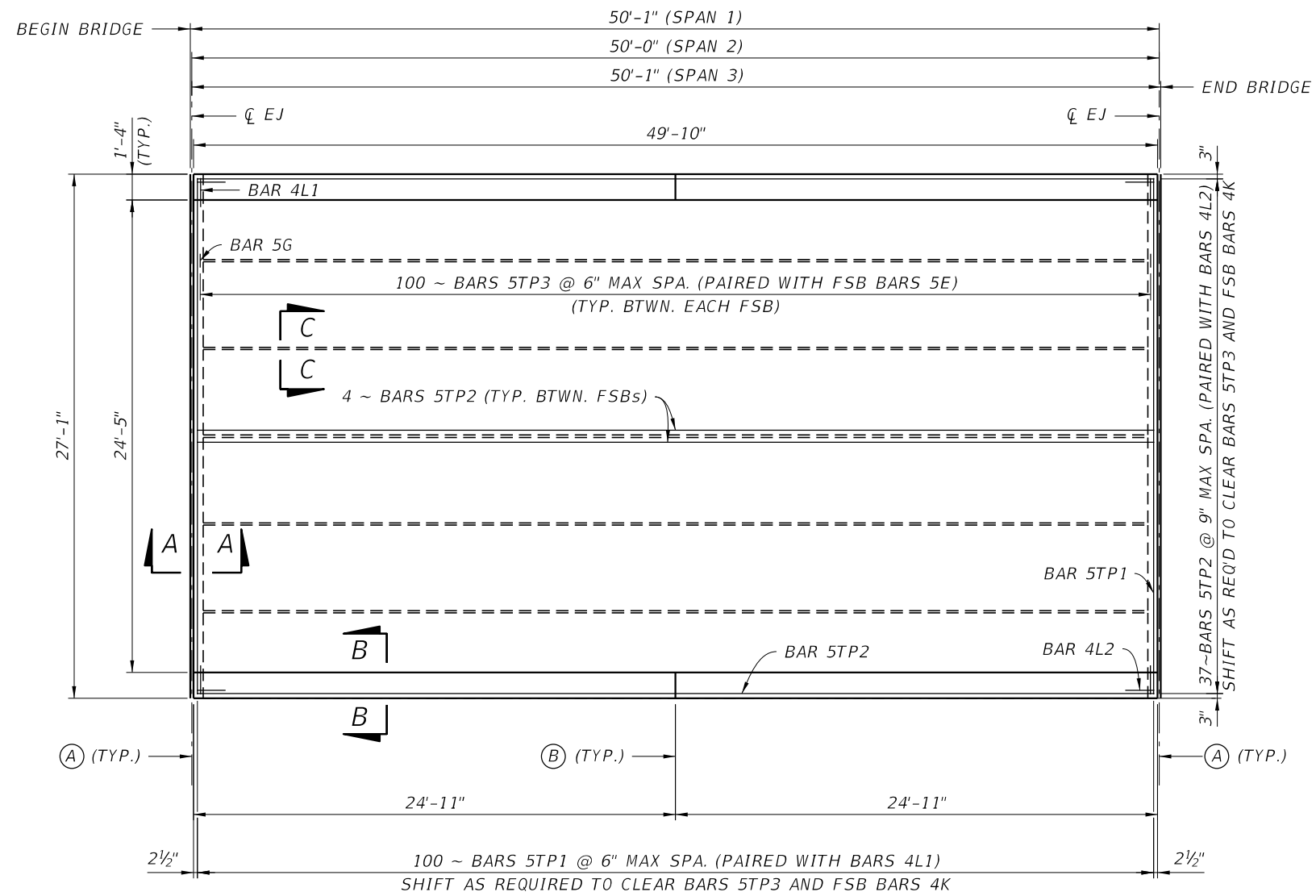
FRAMING PLAN

BRIDGE NO. 574190

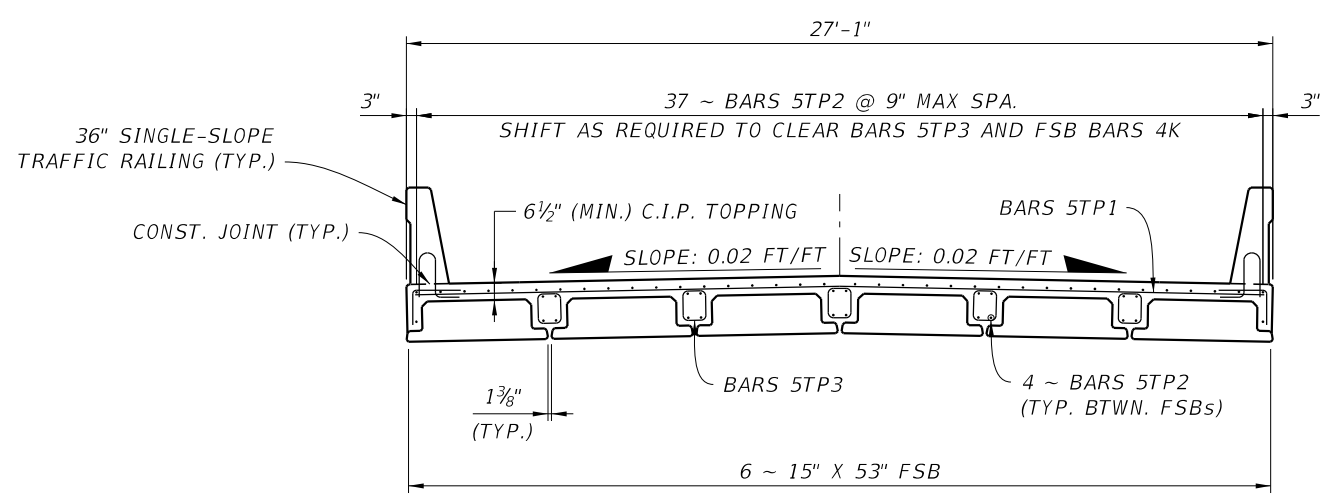
REVISIONS						DRAWN BY: ANB 08/15	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: FRAMING PLAN	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: GIE 08/15				PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO.
						DESIGNED BY: ANB 08/15		OKALOOSA	433910-2-58-01		B1-12
						CHECKED BY: FFB 05/18					

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 CERTIFICATE OF AUTHORIZATION No.: 5917

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PLAN



SECTION

- NOTES:**
1. FOR SECTIONS A-A AND B-B, SEE SHEET B1-14
 2. FOR SECTION C-C, SEE SHEET B1-15

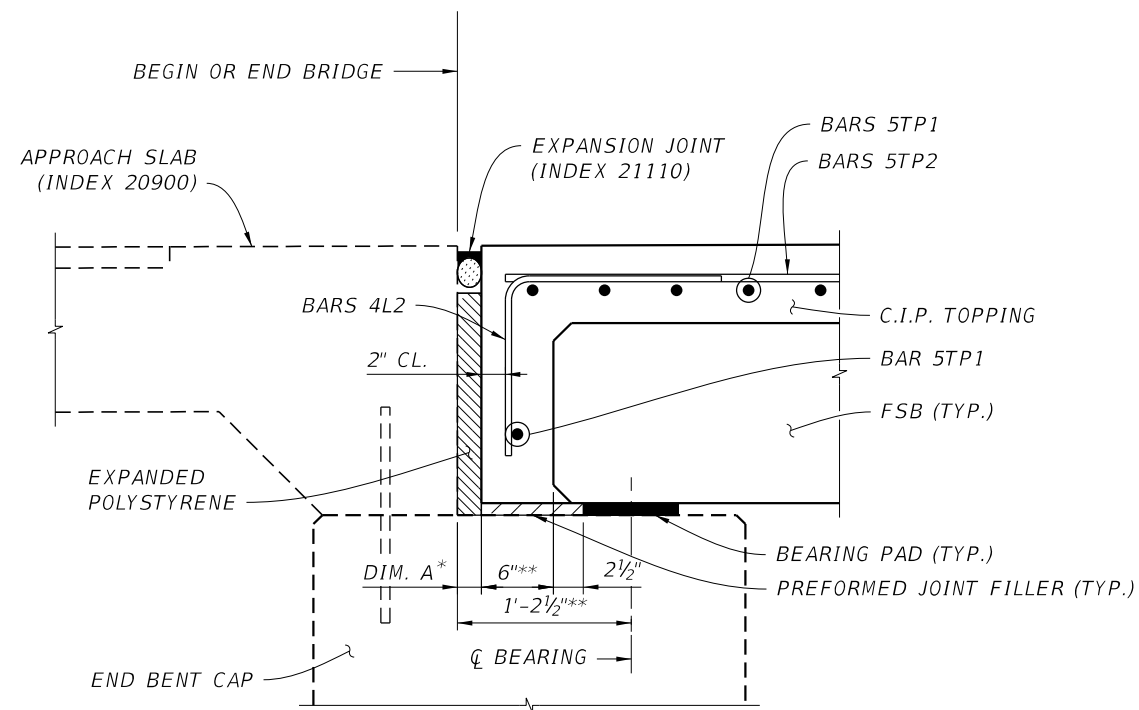
- LEGEND:**
- (A) 2" OPEN JOINT AND EXPANSION JOINT SEAL, SEE INDEX 21110 AND SHEET B1-14
 - (B) 1/2" V-GROOVE IN BOTH FACES AND TOP OF TRAFFIC RAILING

BRIDGE NO. 574190

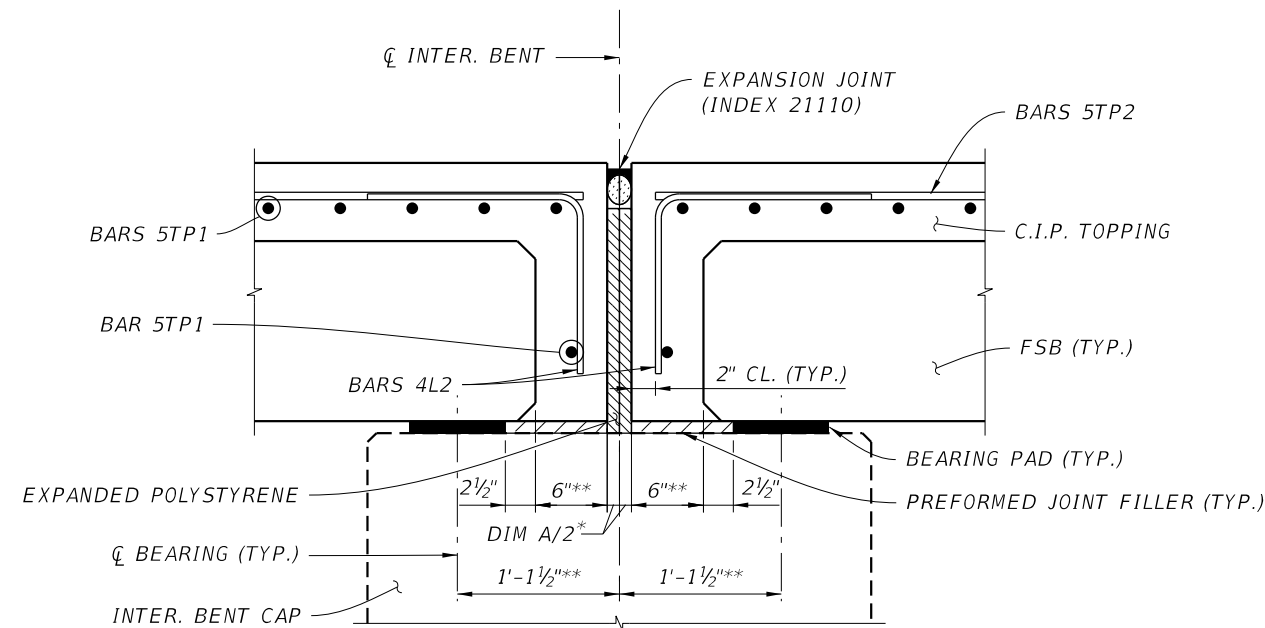
REVISIONS						DRAWN BY: ANB 04/16	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: SUPERSTRUCTURE PLAN AND SECTION	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: GIE 04/16				PROJECT NAME: STEELE ROAD OVER PENNY CREEK	SHEET NO.
						DESIGNED BY: ANB 04/16		OKALOOSA	433910-2-58-01		B1-13
						CHECKED BY: FFB 05/18					

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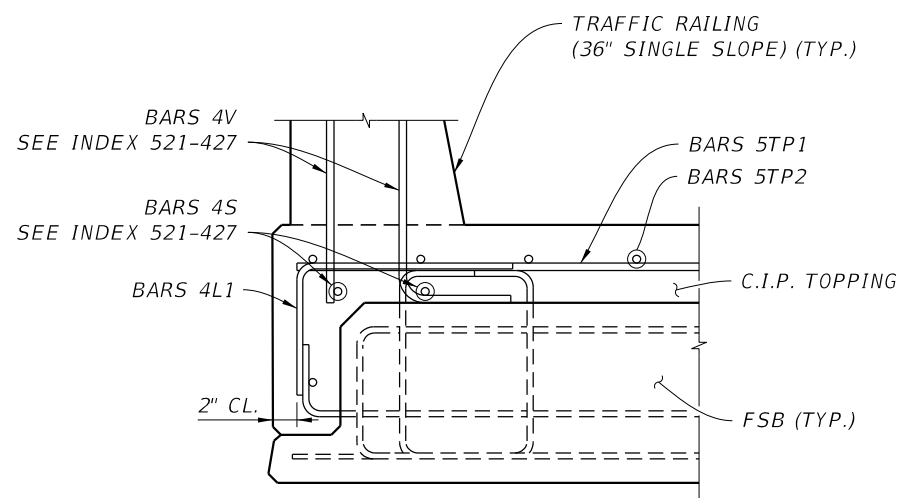
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SECTION A-A
(AT END BENTS ALONG CL BEAMS,
FSB REINFORCING NOT SHOWN FOR CLARITY)



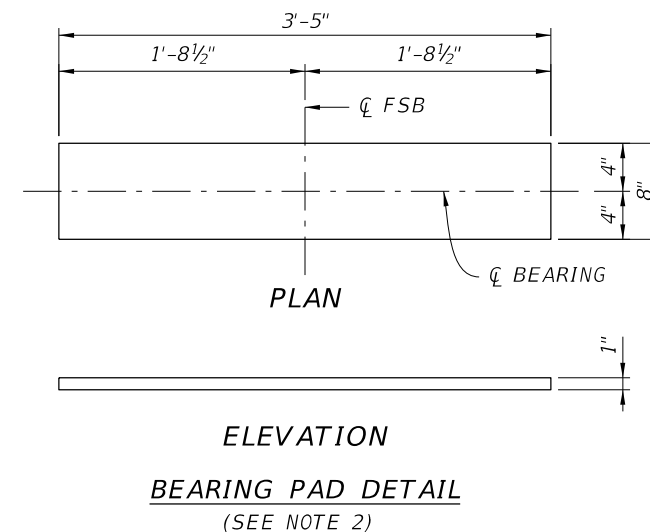
SECTION A-A
(AT INTERMEDIATE BENTS ALONG CL BEAMS,
FSB REINFORCING NOT SHOWN FOR CLARITY)



SECTION B-B

POURED EXPANSION JOINT DATA TABLE INDEX NO. 21110			TABLE DATE 1-01-09
LOCATION	DIM. "A" @ 70°F	TOTAL DESIGN MOVEMENT	DIM. "A" ADJUSTMENT PER 10°F
END BENTS 1 & 4	2"	5/16"	0"
INTER. BENTS 2 & 3	2"	5/16"	0"

NOTE: DIM. "A" ADJUSTMENT PER 10°F SHOWN IS MEASURED PERPENDICULAR TO CL EXPANSION JOINT. WORK THIS TABLE WITH DESIGN STANDARDS INDEX NO. 21110.

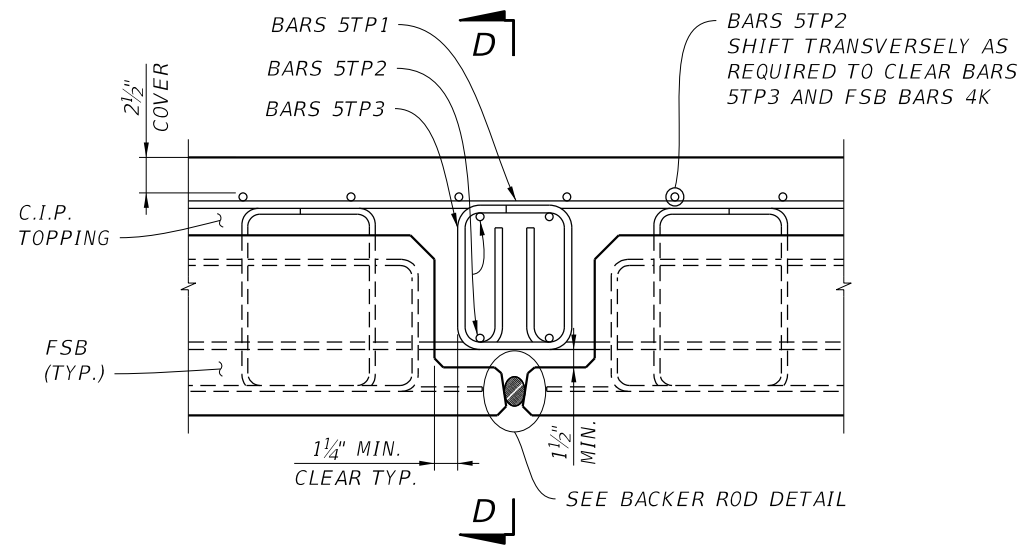


- NOTES:**
- FOR LOCATION OF SECTIONS A-A AND B-B, SEE SHEET B1-13
 - PROVIDE PLAIN ELASTOMERIC BEARING PADS WITH A SHEAR MODULUS G = 110 PSI AND IN ACCORDANCE WITH SPECIFICATIONS 932

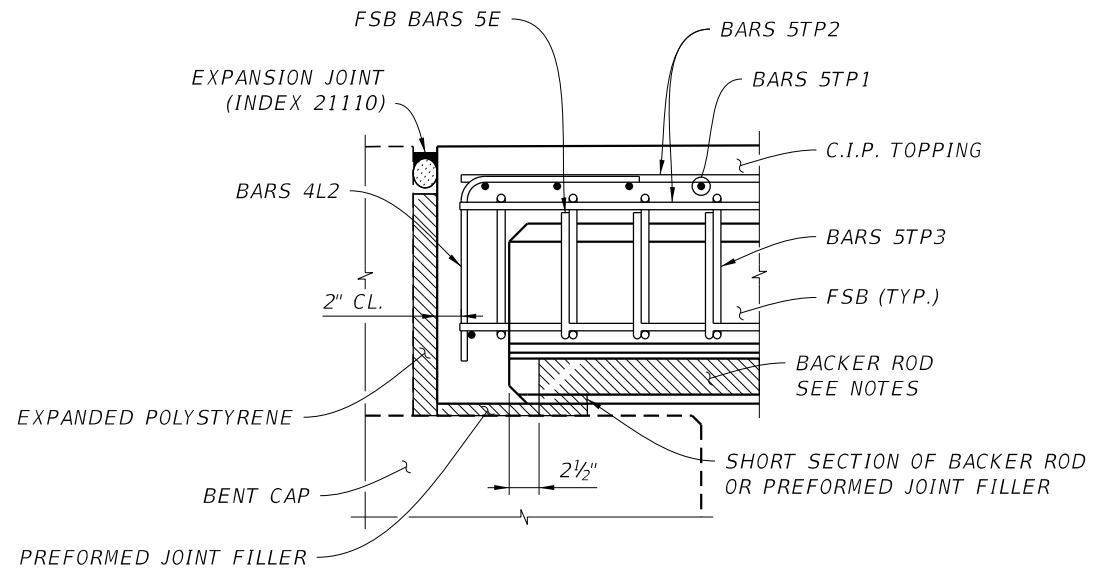
BRIDGE NO. 574190

REVISIONS						DRAWN BY: GIE 11/15	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: SUPERSTRUCTURE DETAILS (1 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: ANB 11/15		OKALOOSA	433910-2-58-01	STEELE ROAD OVER PENNY CREEK	B1-14
						DESIGNED BY: GIE 11/15					
						CHECKED BY: FFB 05/18					

FREDERICK F. BRAERMAN, P.E. (No. 71026)
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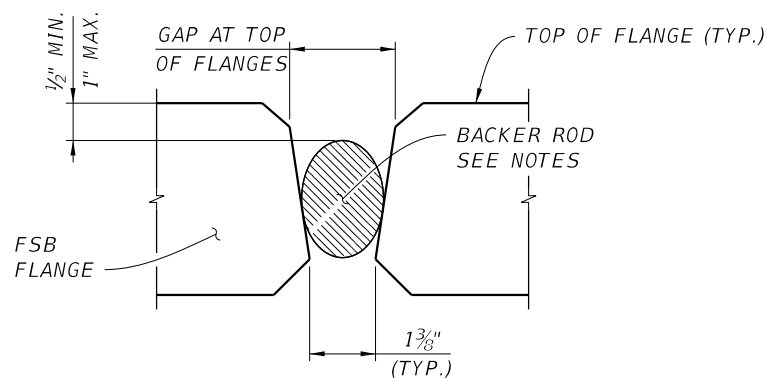


SECTION C-C



SECTION D-D AT SPAN ENDS

(SPAN END @ END BENT SHOWN; SPAN END @ INTERMEDIATE BENT SIMILAR)



BACKER ROD DETAIL

BACKER ROD NOTES:

1. USE A BACKER ROD TO FORM THE BOTTOM OF THE CAST IN PLACE TOPPING AT THE GAP BETWEEN ADJACENT FSB'S. USE A BACKER ROD MEETING THE REQUIREMENTS OF ASTM C1330 OR ASTM D5249, TYPES 1 OR 3, WITH MINIMUM UNCOMPRESSED DIAMETER 50% LARGER THAN THE FIELD VERIFIED MAXIMUM WIDTH OF THE GAP BETWEEN ADJACENT FSB'S. MEASURE THE GAP AT THE TOP OF THE FLANGES AS SHOWN IN THE BACKER ROD DETAIL.
2. INSTALL THE BACKER ROD FROM THE TOP DOWN TO THE POSITION SHOWN IN THE BACKER ROD DETAIL.
3. SECURE THE BACKER ROD TO PREVENT DISPLACEMENT DURING TOPPING CONCRETE PLACEMENT AND TO BE MORTAR TIGHT USING A COMPATIBLE CONSTRUCTION ADHESIVE.
4. THE BACKER ROD MAY REMAIN IN PLACE AFTER TOPPING CONCRETE PLACEMENT.

NOTES:

1. FOR LOCATION OF SECTION C-C, SEE SHEET B1-13

APPROACH SLAB INDEX NO. D20900 TABLE OF DIMENSIONS							Table Date 07-01-13
LOCATION	DIMENSIONS					ANGLE Ø	
	L1	L2	M1	M2	N		
APPROACH SLAB 1	30' - 0"	30' - 0"	1' - 4"	1' - 4"	24' - 5"	0° 00' 00"	
APPROACH SLAB 2	30' - 0"	30' - 0"	1' - 4"	1' - 4"	24' - 5"	0° 00' 00"	
DIMENSION NOTES: DIMENSIONS L1 & L2 ARE MEASURED ALONG GUTTER LINE, INSIDE FACE OF PARAPET OR INSIDE FACE OF RAILING ON RAISED SIDEWALKS. DIMENSIONS L1 & L2 ARE ARC DIMENSIONS WITHIN CURVED ALIGNMENTS.							

BRIDGE NO. 574190

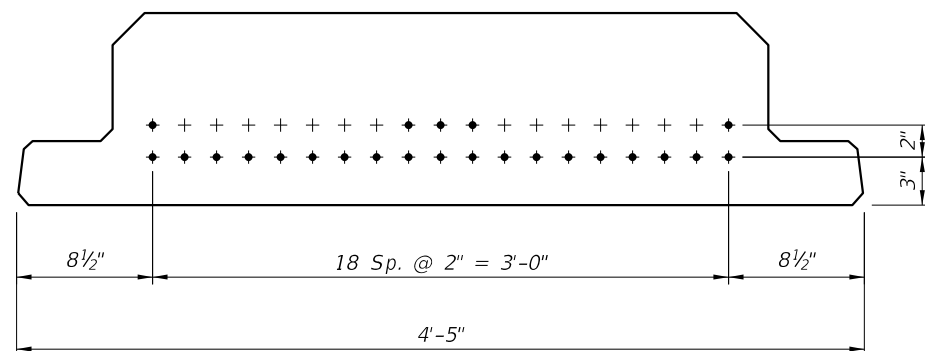
REVISIONS						DRAWN BY: ANB 11/15 CHECKED BY: GIE 11/15 DESIGNED BY: ANB 11/15 CHECKED BY: FFB 05/18	OKALOOSA COUNTY PUBLIC WORKS	ROAD NO. COUNTY FINANCIAL PROJECT ID OKALOOSA 433910-2-58-01	SHEET TITLE: SUPERSTRUCTURE DETAILS (2 OF 2) PROJECT NAME: STEELE ROAD OVER PENNY CREEK	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
										SHEET NO. B1-15

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

FLORIDA SLAB BEAM - TABLE OF VARIABLES

Table Date 01-01-16

LOCATION		BEAM TYPE	CONCRETE PROPERTIES				STND. PTRN. TYPE	PLAN VIEW CASE				ANGLE θ			BEAM DIMENSIONS*			REINFORCING STEEL													
SPAN NO.	BEAM NO.		CLASS	STRENGTHS (psi)		END 1		END 2	END 1	END 2	END 1	END 2	DIM W	DIM L	DIM R	3C		4D1	4D2	4D3	5E1		5E2		6Y1	6Y2	4K	NO. OF BAR SPACES		BAR SPACING*	
				28 Day	Release											NO.	DIM C	DIM D	DIM D	NO.	DIM D	NO.	DIM E	NO.	DIM E	DIM Y	DIM Y	NO.	S1	S2	V1
1-3	1 & 6	FSB 15X53	V	6,500	5,500	1	1	1	90°	90°	53"	48' - 10 1/2"	1/2"	50	4' - 1/2"	2' - 2 1/2"	2' - 2 1/2"	42	2' - 2 1/2"		97	4' - 1 1/2"	3' - 1/2"	3' - 1/2"	144	8	27	12	18		
1-3	2-5	FSB 15X53	V	6,500	5,500	1	1	1	90°	90°	53"	48' - 10 1/2"	1/2"	50	4' - 1/2"	2' - 2 1/2"	2' - 2 1/2"	42	2' - 2 1/2"	97	4' - 3"			3' - 1/2"	3' - 1/2"	144	8	27	12	18	



TYPE ① 24 STRANDS

STRAND DESCRIPTION: Use 0.6" Diameter, Grade 270, Low Relaxation Carbon Steel Strands stressed at 44 kips each. Area per strand equals .22 sq. in.

STRAND PATTERNS

NOTE: WORK THIS SHEET WITH DEVELOPMENTAL DESIGN STANDARD INDEXES D20450 AND D20452.

STRAND DEBONDING LEGEND

- FULLY BONDED STRANDS.

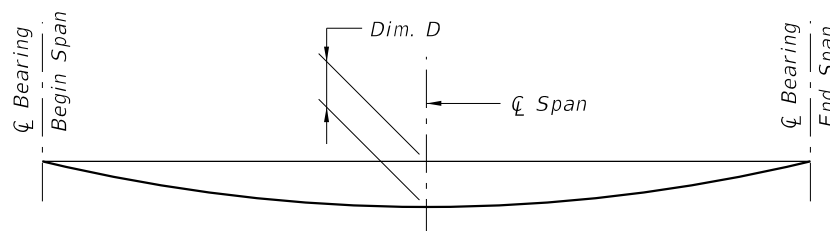
DIMENSION NOTES

* ALL LONGITUDINAL BEAM DIMENSIONS SHOWN ON THIS SHEET WITH A SINGLE ASTERISK (*) ARE MEASURED ALONG THE TOP OF BEAM AT THE CENTERLINE. DIMENSION "R" IS CALCULATED AT MID-HEIGHT OF THE BEAM.

LOCATION		NET BEAM CAMBER (PRESTRESS - DEAD LOAD OF BEAM) @ 120 DAYS (in.)	DIM. D DEAD LOAD DEFLECTION @ 120 DAYS (in.)
SPAN NO.	BEAM NO.		
1-3	1&6	1 3/8"	- 1"
	2-5	1 3/8"	- 1"

CAMBER NOTE:

THE VALUES GIVEN IN THE TABLE ARE BASED ON THEORETICAL BEAM CAMBERS. THE CONTRACTOR SHALL MONITOR BEAM CAMBERS FOR THE PURPOSE OF PREDICTING CAMBER VALUES AT THE TIME OF THE TOPPING CASTING. IF THE PREDICTED CAMBERS BASED ON FIELD MEASUREMENTS DIFFER MORE THAN ± 1/2" FROM THE THEORETICAL "NET BEAM CAMBER @ 120 DAYS" SHOWN IN THE TABLE, PROPOSE MODIFIED DIMENSIONS AS REQUIRED AND SUBMIT TO THE ENGINEER FOR APPROVAL A MINIMUM OF 21 DAYS PRIOR TO CASTING TOPPING CONCRETE.



DEAD LOAD DEFLECTION DIAGRAM

BRIDGE NO. 574190

REVISIONS						DRAWN BY: ANB 04/16 CHECKED BY: GIE 04/16 DESIGNED BY: ANB 04/16 CHECKED BY: FFB 05/18	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
								OKALOOSA	433910-2-58-01	FSB DATA TABLE		B1-16
						FREDERICK F. BRAERMAN, P.E. (No. 71026) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917			STEELE ROAD OVER PENNY CREEK			

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

MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	Ø							
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION END BENT CAPS											NO. REQUIRED = 2										
5	EB1	10-10		30	4	4	4	2- 5		2- 6											
5	EB2	7- 4		10	11			2- 6		2- 5		2- 5									
5	EB3	28- 8		4	1			28- 8													
5	EB4	5- 5		8	11			3- 9		0-10		0-10									
5	EB5	1- 6		9	1			1- 6													
8	EB6	28- 8		8	1			28- 8													
LOCATION WING WALLS											NO. REQUIRED = 4										
5	WW1	4- 5		14	1			4- 5													
5	WW2	5- 6		12	1			5- 6													
5	WW3	5- 0		8	10			2- 6		2- 6											
LOCATION INTERMEDIATE BENT CAPS											NO. REQUIRED = 2										
5	IB1	12- 0		28	4	4	4	2- 6		3- 0											
5	IB2	8- 0		14	11			3- 0		2- 6		2- 6									
5	IB3	26- 7		4	1			26- 7													
5	IB4	5- 5		8	11			3- 9		0-10		0-10									
8	IB5	26- 7		8	1			26- 7													
5	IB6	4- 2		4	11			2- 6		0-10		0-10									
LOCATION APPROACH SLABS											NO. REQUIRED = 2										
5	A1	29- 6		28	1			29- 6													
5	B	26- 7		72	1			26- 7													
5	C	5- 0		60	1			5- 0													
8	A2	29- 6		37	1			29- 6													
LOCATION SUPERSTRUCTURE C.I.P. TOPPING											NO. REQUIRED = 3										
4	L1	2- 5		200	10			1- 6		0-11											
4	L2	2- 9		74	10			1- 6		1- 3											
5	TP1	26- 9		102	1			26- 9													
5	TP2	49- 5		59	1			49- 5													
5	TP3	4- 8		500	4	4	4	1- 0		0- 9 1/2											

END OF LIST

NOTES:
 1. FOR BAR BENDING DETAILS, SEE DESIGN STANDARDS INDEX 21300.

BRIDGE NO. 574190

REVISIONS						FREDERICK F. BRAERMAN, P.E. (No. 71026) JMT-JOHNSON, MIRMIRAN & THOMPSON 615 CRESCENT EXECUTIVE COURT, SUITE 106 LAKE MARY, FL 32746 PHONE 407-833-9898 CERTIFICATE OF AUTHORIZATION No.: 5917	DRAWN BY: ANB 04/16 CHECKED BY: GIE 04/16 DESIGNED BY: ANB 04/16 CHECKED BY: FFB 05/18	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE: REINFORCING BAR LIST		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
									OKALOOSA	433910-2-58-01	STEELE ROAD OVER PENNY CREEK		B1-17

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

LOAD RATING SUMMARY DETAILS FOR PRESTRESSED CONCRETE BRIDGES (FLAT SLAB AND DECK/GIRDER)

TABLE DATE 07-01-15

TABLE 2 - LRFR

LEVEL	LIMIT STATE	VEHICLE	WEIGHT (TONS)	LOAD FACTORS			MOMENT (STRENGTH) OR STRESS (SERVICE)					SHEAR (STRENGTH)				COMMENTS: INTERIOR/EXTERIOR BEAM DF METHOD IF OTHER THAN LRFD. OTHER APPROPRIATE COMMENTS	
				LL	DC	DW	DISTRIBUTION FACTOR (DF)	RATING FACTOR	TONS	LOCATION	DIMENSION	DISTRIBUTION FACTOR (DF)	RATING FACTOR	TONS	LOCATION		DIMENSION
DESIGN LOAD RATING	STRENGTH I (INV)	HL-93	N/A	1.75	1.25	1.50	0.38	1.50	N/A	C	22.44'	0.62	4.10	N/A	A	1.43'	EXTERIOR BEAM
	STRENGTH I (OP)	HL-93	N/A	1.35	1.25	1.50	0.38	1.95	N/A	C	22.44'	0.62	5.31	N/A	A	1.43'	EXTERIOR BEAM
	SERVICE III (INV)	HL-93	N/A	0.80	1.00	1.00	0.38	1.41	N/A	D	22.92'	N/A	N/A	N/A	N/A	N/A	EXTERIOR BEAM
PERMIT LOAD RATING	STRENGTH II	FL120	60.0	1.35	1.25	1.50	0.38	1.44	86.48	B	21.49	0.62	3.80	227.86	A	1.43'	EXTERIOR BEAM

GENERAL NOTES:

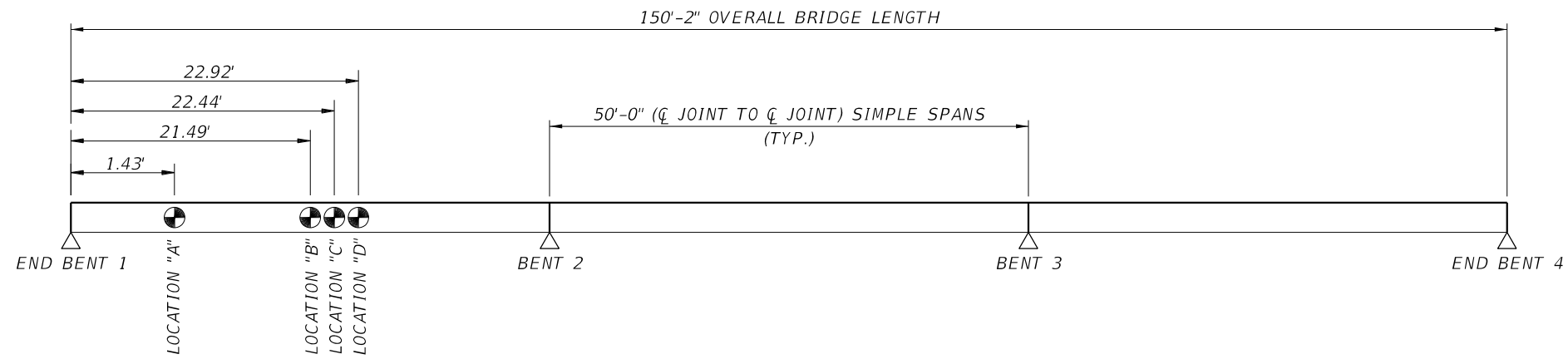
- THIS TABLE IS BASED ON THE REQUIREMENTS ESTABLISHED IN THE JANUARY 2016 "STRUCTURES MANUAL".

TABLE 2 NOTES [NOTES DATE 07-01-15]:

- PERMIT CAPACITY IS DETERMINED BY USING THE PERMIT VEHICLE IN ALL LANES.
- SERVICE III DESIGN INVENTORY TENSILE STRESS LIMITS = $6\sqrt{f'_c}$.
- HAS THE AASHTO LRFD SPECIFICATIONS ARTICLE 5.8.3.5 LONGITUDINAL REINFORCEMENT BEEN SATISFIED? YES NO

FDOT SOFTWARE :

LRFD PRESTRESSED BEAM V5.0 03/31/2016



RATING LOCATIONS

ABBREVIATIONS:

INV - INVENTORY

OP - OPERATING

BRIDGE NO. 574190

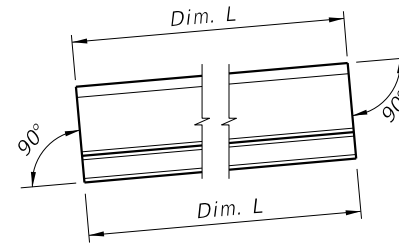
REVISIONS						DRAWN BY: ANB 04/16	CHECKED BY: GIE 04/16	DESIGNED BY: ANB 04/16	CHECKED BY: FFB 05/18	OKALOOSA COUNTY PUBLIC WORKS			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	LOAD RATING SUMMARY SHEET		
							OKALOOSA	433910-2-58-01	STEELE ROAD OVER PENNY CREEK						
											PROJECT NAME:		SHEET NO.		
													B1 - 18		

FREDERICK F. BRAERMAN, P.E. (No. 71026)
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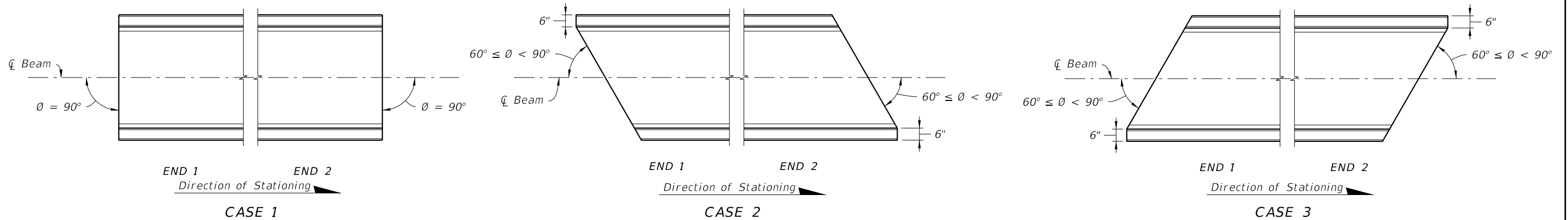
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FABRICATION NOTES

1. The abbreviated FSB designation for depth and width is FSB "depth" x "width", e.g. FSB 12 x 48.
2. All bar dimensions are out-to-out.
3. Strands N shall be ASTM A416, Grade 250 or 270, $\frac{3}{8}$ " \emptyset or larger strands, stressed to 10,000 lbs. each.
4. Unless otherwise noted, the minimum concrete cover for reinforcing steel shall be 2".
5. For referenced Dimensions, Angles and Case Numbers, see Florida Slab Beam - Table of Variables in Structures Plans.
6. Bars 4D1 & 6Y1 correspond to END 1, and 4D2 & 6Y2 correspond to END 2.
7. Bars 5E1 correspond to interior FSBs, and 5E2 correspond to exterior FSBs.
8. Rake the top surface of the Slab Beams transversely to provide a roughened surface with $\frac{1}{4}$ " amplitude.




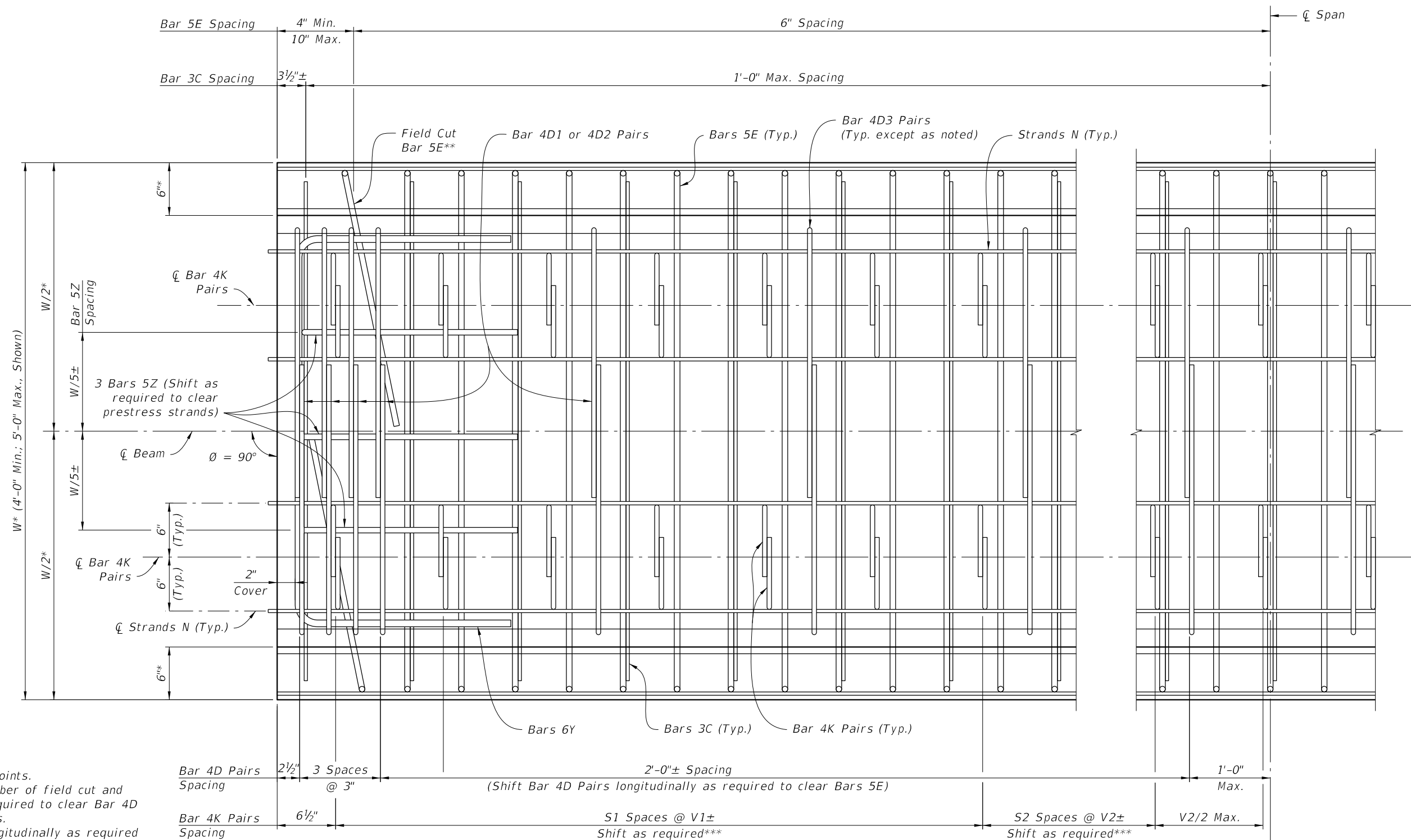
SCHEMATIC SIDE ELEVATION OF BEAM
 (Beam on a Positive Grade shown; Beam on a Negative Grade or Horizontal Grade similar.)



SCHEMATIC PLAN VIEWS AT BEAM ENDS

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LAST REVISION 01/01/16	REVISION	DESCRIPTION:	 DEVELOPMENTAL DESIGN STANDARDS	TYPICAL FLORIDA SLAB BEAM DETAILS AND NOTES	INDEX NO. D20450	SHEET NO. 1 of 3
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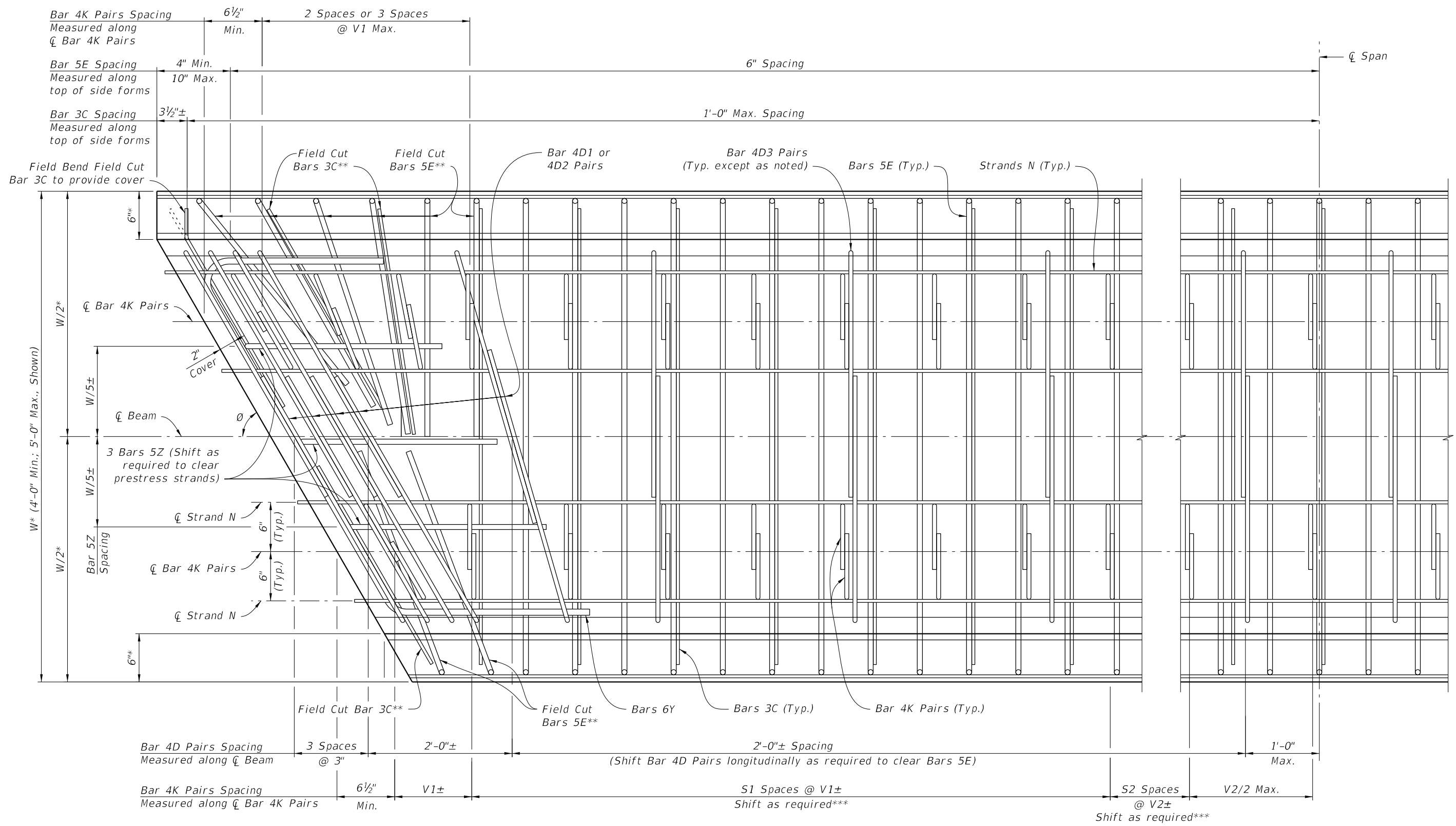
* Measured to Working Points.
 ** At Beam ends, use number of field cut and rotated Bars 5E as required to clear Bar 4D Pairs and Bar 4K Pairs.
 *** Shift Bar 4K Pairs longitudinally as required to clear Bar 4D Pairs and Bars 3C and 5E.

CROSS REFERENCE:
 For Dimensions V1, V2 & W and number of spaces S1 & S2, see Florida Slab Beam - Table of Variables in Structures Plans.
 See Indexes D20451, D20452 and D20453 for Bars 5E Details.

PARTIAL PLAN VIEW $\theta = 90^\circ$
 (END 1 SHOWN, END 2 SIMILAR)
 (INTERIOR BEAM SHOWN, EXTERIOR BEAM SIMILAR, SEE BARS 5E DETAILS)

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LAST REVISION 01/01/16	REVISION	DESCRIPTION:	 DEVELOPMENTAL DESIGN STANDARDS	TYPICAL FLORIDA SLAB BEAM DETAILS AND NOTES	INDEX NO. D20450	SHEET NO. 2 of 3
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PARTIAL PLAN VIEW $60^\circ \leq \theta < 90^\circ$

(END 1 SHOWN, END 2 SIMILAR)
 (INTERIOR BEAM SHOWN, EXTERIOR BEAM SIMILAR, SEE BARS 5E DETAILS)

CROSS REFERENCE:

For Dimensions V1, V2 & W, Angle θ and number of spaces S1 & S2, see Florida Slab Beam - Table of Variables in Structures Plans.


See Indexes D20451, D20452 and D20453 for Bars 5E Details.

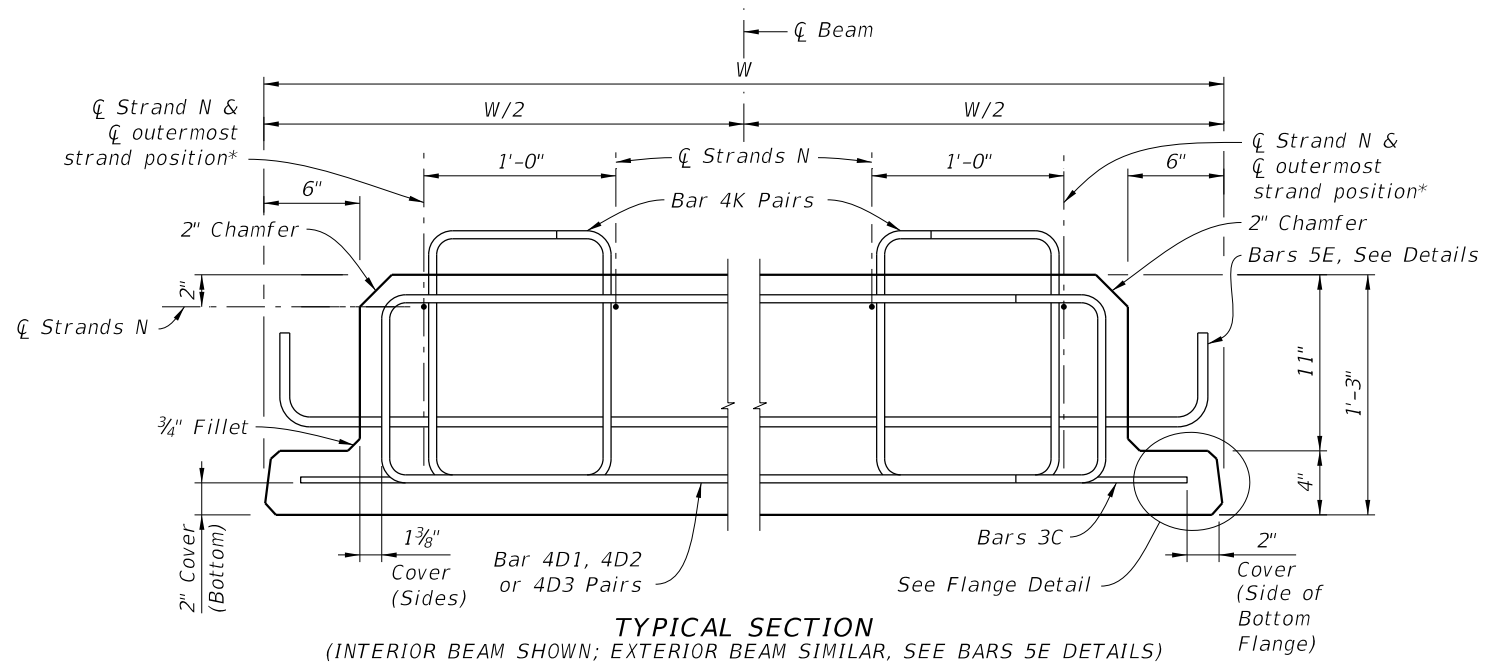
* Measured to Working Points.

** At Beam ends, use number of field cut and rotated Bars 3C and 5E as required to clear Bar 4D Pairs and Bar 4K Pairs.

*** Shift Bar 4K Pairs longitudinally as required to clear Bar 4D Pairs and Bars 3C and 5E.

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LAST REVISION 01/01/16	REVISION	DESCRIPTION:	 DEVELOPMENTAL DESIGN STANDARDS	TYPICAL FLORIDA SLAB BEAM DETAILS AND NOTES	INDEX NO. D20450	SHEET NO. 3 of 3
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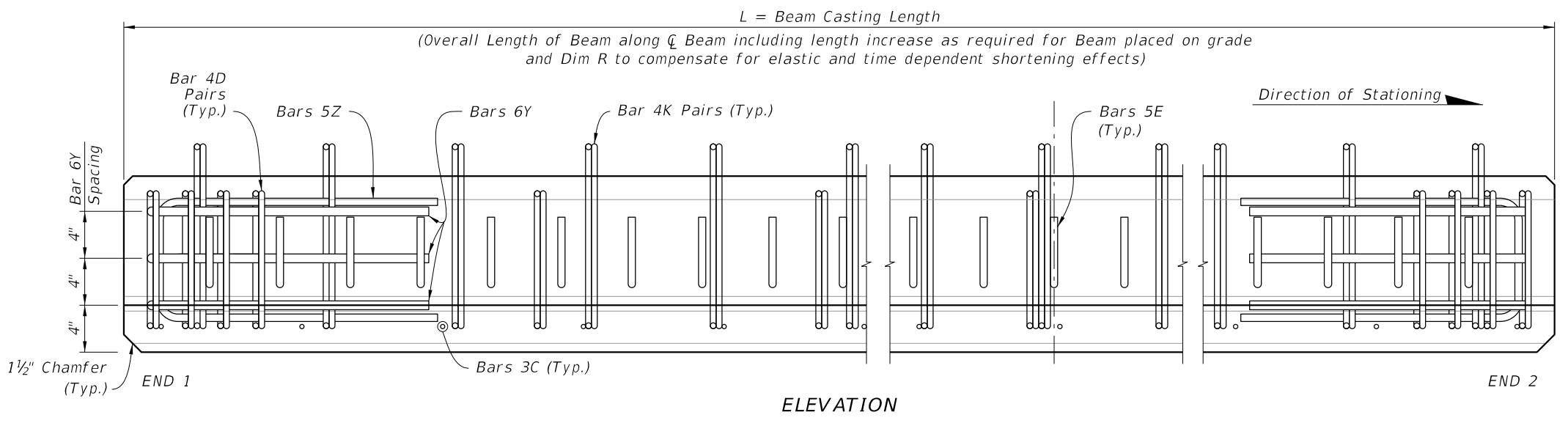
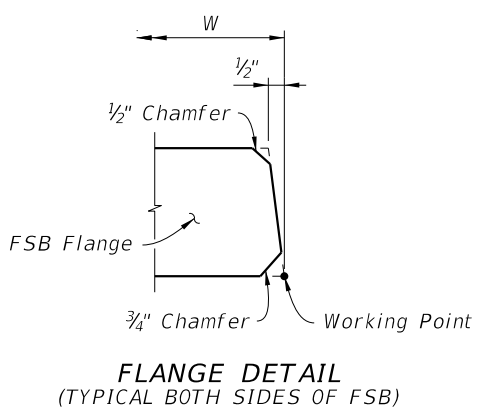
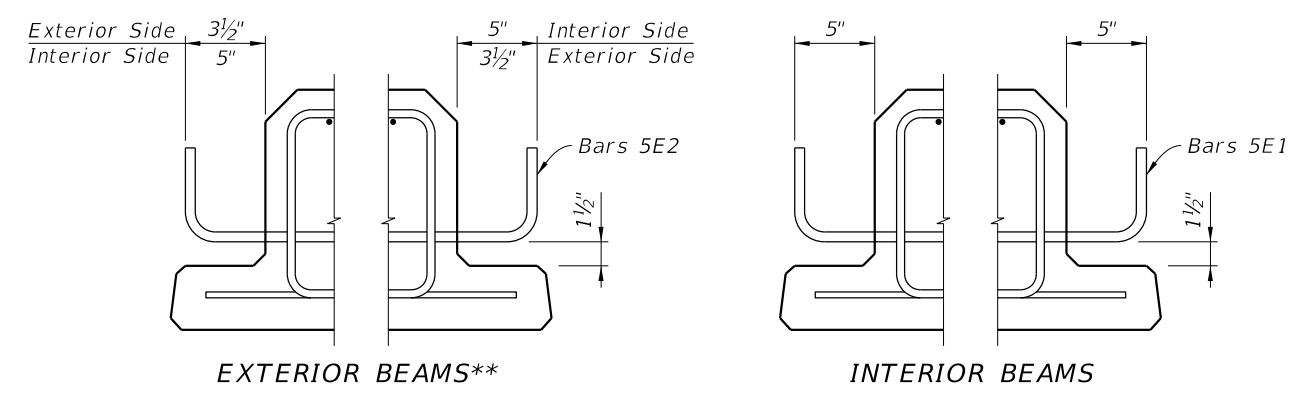
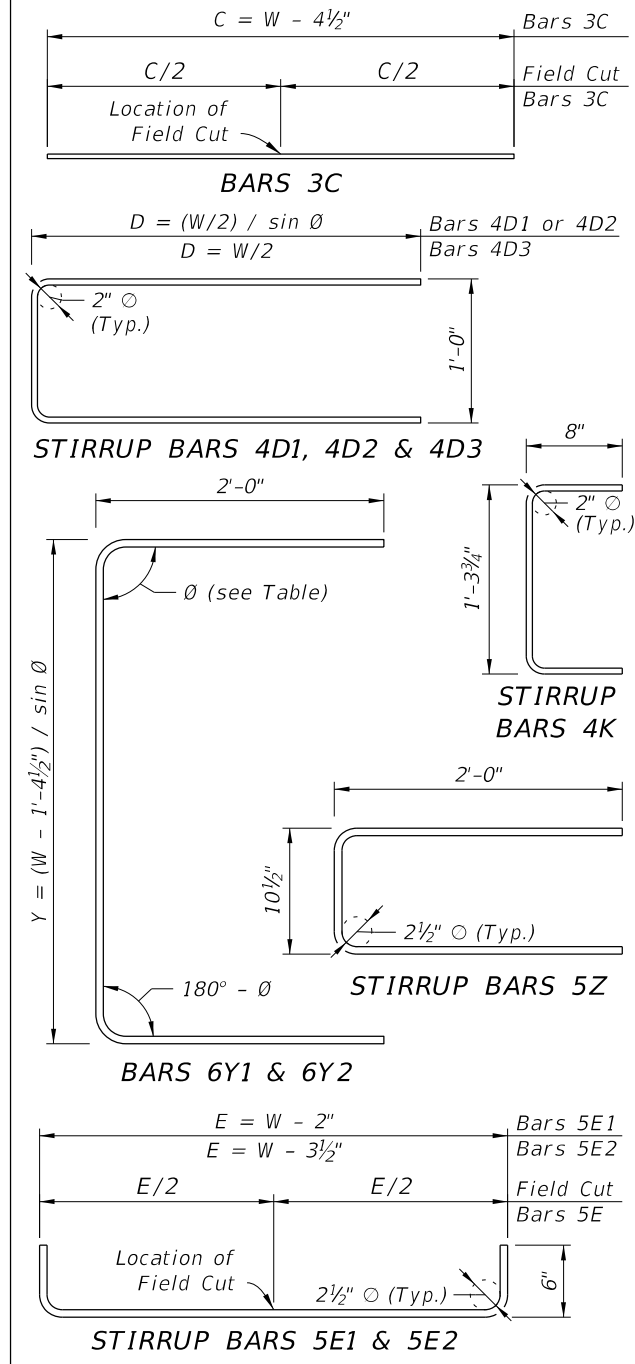


NOTES:
 Work this Index with Index D20450 and Florida Slab Beams - Table of Variables in Structures Plans.
 For Dimensions C, D, E, L, R, W & Y and Angle θ , see Florida Slab Beam - Table of Variables in Structures Plans.
 For referenced notes, see Index D20450, Sheet 1.
 * For ϕ of outermost strand positions, see corresponding Strand Pattern on Florida Slab Beams - Table of Variables in Structures Plans.
 ** At the Contractor's option, the Detail as shown for Interior Beams may be used for Exterior Beams and the Bars 5E field bent on the exterior side of the Beam to provide the specified cover to the coping line.

BILL OF REINFORCING STEEL FOR ONE BEAM ONLY

MARK	SIZE	NOTE NUMBERS	NUMBER REQUIRED	LENGTH (NOTE 1)
C	3		See Table	Varies
D1	4	6	10 (End 1)	Varies
D2	4	6	10 (End 2)	Varies
D3	4		See Table	Varies
E1	5	7	See Table	Varies
E2	5	7	See Table	Varies
K	4		See Table	2'-8"
N	See Note 3	3	4	Varies
Y1	6	6	3 (End 1)	Varies
Y2	6	6	3 (End 2)	Varies
Z	5		6	4'-10 1/2"

BENDING DIAGRAMS (See Note 1)



SDATES

LAST REVISION 10/04/16	DESCRIPTION:
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15" FLORIDA SLAB BEAM

INDEX NO. D20452	SHEET NO. 1 of 1
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