

COMPONENTS OF CONTRACT PLANS SET

Roadway Plans

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	PROJECT NOTES
4	TYPICAL SECTIONS
5	PLAN & PROFILE SHEET
6	DRAINAGE STRUCTURES
7-9	CROSS SECTIONS
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11	SIGNING AND PAVEMENT MARKING SHEET
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13	COMMUNICATION PLAN
SQ1-SQ3	TABULATION OF QUANTITIES

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2022-23 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>

GOVERNING STANDARD SPECIFICATIONS:

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

BOARD OF COUNTY COMMISSIONERS

BOB DALLARI	DISTRICT 1
JAY ZEMBOWER	DISTRICT 2
LEE CONSTANTINE	DISTRICT 3
AMY LOCJHART	DISTRICT 4
ANDRIA HERR	DISTRICT 5

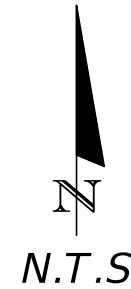
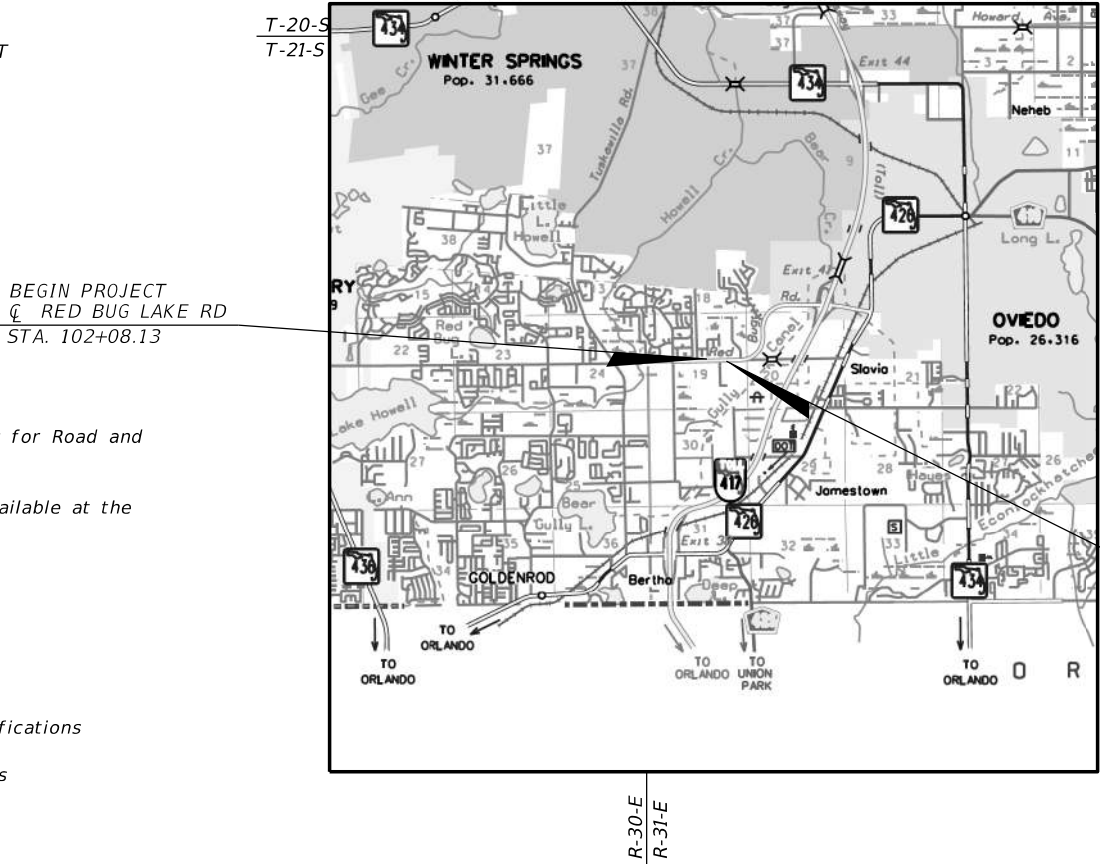
A. BRYANT APPLGATE, INTERIM COUNTY MANAGER

SEMINOLE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS



RED BUG LAKE RD & MIKLER RD INTERSECTION IMP.
SEMINOLE COUNTY CIP No. 02107103



END PROJECT
C/LAKE BUG LAKE RD.
STA. 105+04.51

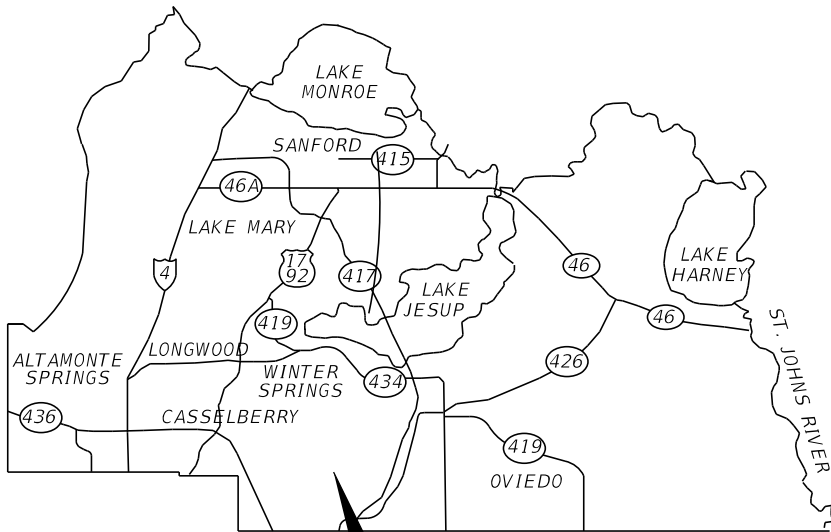
ROADWAY PLANS

ENGINEER OF RECORD:

DINO LUCARELLI, PE No. 39556
SEMINOLE COUNTY, ENGINEERING DIVISION
100 E 1ST STREET
SANFORD, FLORIDA 32771
(407) 665-5665

COUNTY PROJECT MANAGER:

DINO LUCARELLI, P.E.



PROJECT LOCATION
COUNTY COMMISSION DISTRICT 1

FISCAL YEAR	SHEET NO.
23	1

PUBLIC WORKS DIRECTOR: JEAN JREIJ, P.E.

[illegible]

GENERAL NOTES

TEMPORARY TRAFFIC CONTROL NOTES

1.

BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
2.

ANY PUBLIC LAND CORNER OR COUNTY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE SEMINOLE COUNTY SURVEYOR, SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT IMMEDIATELY BY PHONE @ (407) 665-5656.
3.

PROJECT STATIONS AND OFFSETS ARE BASED ON B SURVEY PREPARED BY WOODS ENVIRONMENTAL & INFRASTRUCTURE SOLUTIONS DATED 5/16/22 FOR RED BUG LAKE ROAD & MIKLER ROAD INTERSECTION IMPROVEMENT PROJECT.
4.

ONE WEEK PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A "CONSTRUCTION PERMIT" FROM SEMINOLE COUNTY PUBLIC WORKS ENGINEERING DIVISION. CONTACT PERMIT COORDINATOR AT 100 E. FIRST STREET, SANFORD, FLORIDA 32773. TELEPHONE (407) 665-5674. NO FEES REQUIRED.
5.

ALL PRIVATE PROPERTY WITHIN THE RIGHT-OF-WAY SHALL BE RELOCATED BY THE PROPERTY OWNER OR IT SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS.
6.

ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THE CONSTRUCTION WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER, THAN THE EXISTING PRE- CONSTRUCTION CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLAN. COST TO BE INCIDENTAL TO CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
7.

EXISTING UTILITY LOCATIONS SHOWN IN THE PLANS ARE ONLY APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED IN THE FIELD AND NOTIFY ALL UTILITY OWNERS WHETHER PUBLIC OR PRIVATE, WITH FACILITIES IN THE AREA OF CONSTRUCTION ACTIVITIES FOR POSSIBLE CONFLICTS AND COORDINATE ANY ADJUSTMENT AND/OR RELOCATION AS NECESSARY TO COMPLETE THE PROJECT. ALL NOTIFICATIONS TO BE MADE ONE WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTACT SUNSHINE STATE ONE- CALL 1-800-432-4770.
8.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE CURRENT STATE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT AND/OR RELATED STATE LAW. THE FOLLOWING INFORMATION IS BEING PROVIDED BY SEMINOLE COUNTY IN AN EFFORT TO ASSIST THE CONTRACTOR BY LISTING UTILITIES THAT MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHOULD ASSUME OTHER UTILITIES THAT ARE NOT LISTED BELOW MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF THE PROPOSED CONSTRUCTION.
- UTILITY (CONTACT)

PHONE

CHARTER COMMUNICATIONS/ SPECTRUM (LASZLO WAGNER)

(407) 215-5716

DUKE ENERGY DIST (BRET GORDON)

(407) 772-5309

TECO PEOPLE GAS-ORLANDO (SHAWN WINSOR)

(407) 420-2678

AT&T FLORIDA DIST (KIRBY SPENCER)

(386) 366-4588

SMART CITY TELECOM (DAVID CAWLEY)

(321) 213-3475

SEMINOLE COUNTY UTILITIES (PAUL ZIMMERMAN)

(407) 665-2021
9.

ALL DISTURBED AREAS WILL BE RE- SODDED TO MATCH THE EXISTING SOD TYPE, UNLESS OTHERWISE NOTED IN THE PLANS. SOD SHALL BE CERTIFIED "SODA APPLE FREE". SUBCONTRACTOR SHALL REMOVE AND REPLACE ANY AREAS INFESTED FOR A PERIOD OF ONE YEAR FROM THE COMPLETION OF THE PROJECT.
10.

SOIL MATERIALS USED FOR FILL OR GRADING ACTIVITIES SHALL BE APPROVED FOR USE BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR PRIOR TO USE.
11.

IF ENCOUNTERED, UNSUITABLE MATERIALS SHALL BE REMOVED FROM CONSTRUCTION AREAS AND BACK FILLED WITH SUITABLE MATERIALS.
12.

ANY GRASSED AREAS OUTSIDE THE PROJECT LIMITS DISTURBED BY THE CONTRACTOR WILL BE SODDED AT THE CONTRACTOR'S EXPENSE WITHIN 48 HOURS OF NOTIFICATION BY THE SEMINOLE COUNTY PROJECT MANAGER.
13.

THE CONTRACTOR SHALL NOTIFY THE SEMINOLE COUNTY ENGINEERING INSPECTOR FOR A FIELD INSPECTION PRIOR TO PLACEMENT OF ANY CONCRETE.
14.

IRRIGATION LINES DAMAGED DURING CONSTRUCTION ARE TO BE CAPPED IMMEDIATELY AND REPORTED TO THE SEMINOLE COUNTY ENGINEERING INSPECTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE ALL DAMAGED IRRIGATION COMPONENTS TO THE PRE-CONSTRUCTION CONDITION AT HIS EXPENSE PRIOR TO COMPLETION OF THE PROJECT. COST TO BE INCLUDED IN 110-1-1.
15.

THE TEST REQUIREMENTS FOR CLASS I CONCRETE WILL BE WAIVED UPON PRESENTATION TO SEMINOLE COUNTY ENGINEERING INSPECTOR A WRITTEN CERTIFICATION FROM THE PLANT THAT THE CONCRETE IS AN FDOT CLASS I MIX FOR 3000 PSI CONCRETE.
16.

THE CONTRACTOR SHALL REMOVE AND DISPOSE PROPERLY OF ALL CONSTRUCTION DEBRIS PRIOR TO COMPLETION OF THE PROJECT.
17.

SHRUBS AND TREES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED. NO TREES ARE TO BE REMOVED WITHOUT THE APPROVAL FROM THE SEMINOLE COUNTY PROJECT MANAGER.
18.

EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN CONSTRUCTION LIMITS TO REMAIN UNLESS OTHERWISE SPECIFIED IN PLANS. EXISTING DRAINAGE STRUCTURES AND FACILITIES SHALL BE MAINTAINED AND FULLY FUNCTIONAL DURING CONSTRUCTION.
19.

ANY DRAINAGE PROBLEMS, CREATED BY CONSTRUCTION OR EXISTING BEFORE CONSTRUCTION, THAT ARE NOT ALLEVIATED SHALL BE BROUGHT TO THE ATTENTION TO THE SEMINOLE COUNTY ENGINEERING DIVISION PROJECT MANAGER.
20.

THE CONTRACTOR IS TO SAWCUT EXISTING PAVEMENT TO A NEAT OUTSIDE EDGE OF SOLID LINE IN ALL AREAS WHERE TIEING INTO EXISTING PAVEMENT.
21.

CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL SIGNS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.

1.

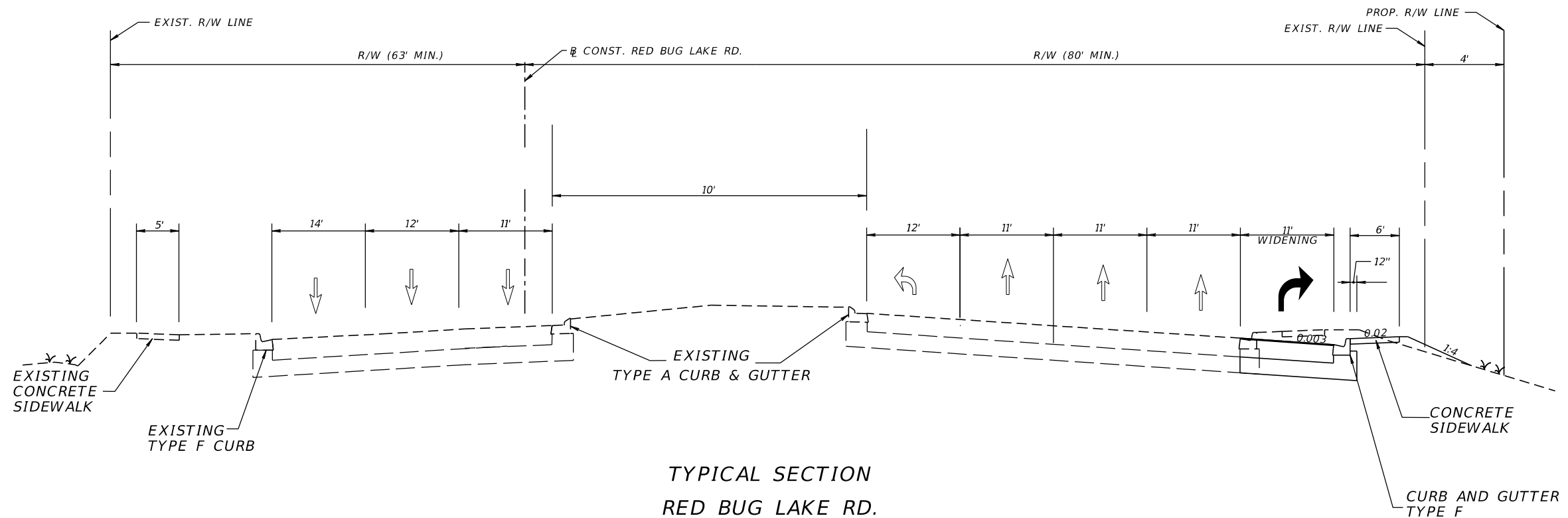
VEHICULAR AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT STANDARDS PLANS FOR ROAD CONSTRUCITON, 102 INDEX SERIES, AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS A MINIMUM. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES.
2.

THE CONTRACTOR SHALL OBTAIN AN "MOT PERMIT" FROM SEMINOLE COUNTY TRAFFIC DIVISION. CONTACT MOT COORDINATOR AT (407) 665-5699 FOLLOWING THE APPROVAL OF THE CONTRACTOR'S SIGNED AND SEALED BY A FL P.E.
3.

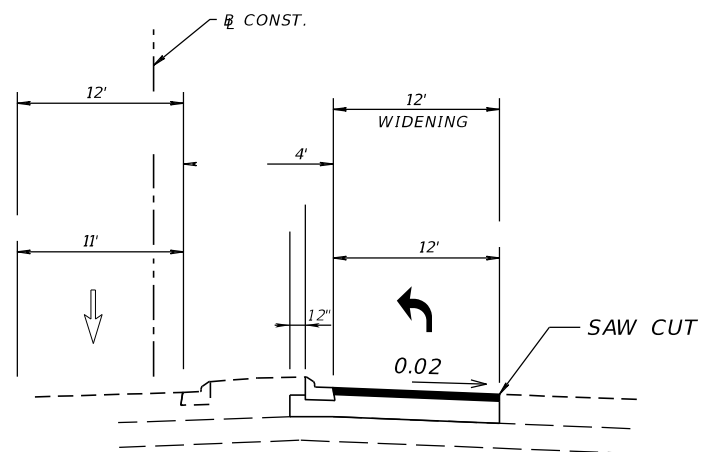
LANE CLOSURES SHALL BE PERMITTED ONLY DURING ACTIVE WORK PERIODS AND FROM 8:00 P.M. TO 6:00 A.M. TIME MAY BE ADJUSTED BY SEMINOLE COUNTY PROJECT MANAGER.
4.

USE CHANGEABLE MESSAGE SIGNS AS INDICATED ON THE PLANS (7) DAYS PRIOR TO CONSTRUCTION AND FOR PROJECT DURATION.

REVISIONS				<div><div><div><div></div></div><div>SEMINOLE COUNTY FLORIDA'S NATURAL CHOICE</div></div><div><div>SEMINOLE COUNTY ENGINEERING DIVISION</div><div>DINO E. LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771</div></div></div>	SEMINOLE COUNTY ENGINEERING DIVISION		PROJECT NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		3
					RED BUG LAKE RD	02107103		



TYPICAL SECTION
RED BUG LAKE RD.
STA. 102+08.13 TO STA. 105+04.51

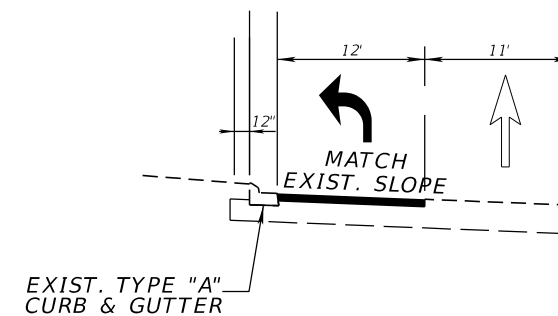


MEDIAN WIDENING PAVEMENT DETAIL

STA. 102+10.75 TO STA. 103+82.69 (RT)

WIDENING
OPTIONAL BASE GROUP 15 (9") (TYPE B-12.5 ONLY)
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC LEVEL C) (1.5")
AND FRICTION COURSE FC-12.5 (1.5") (PG 76-22)


MILLING & RESURFACING
MILLING EXISTING ASPHALT PAVEMENT (1.5" DEPTH)
FRICTION COURSE FC-12.5 (1.5") (PG 76-22)

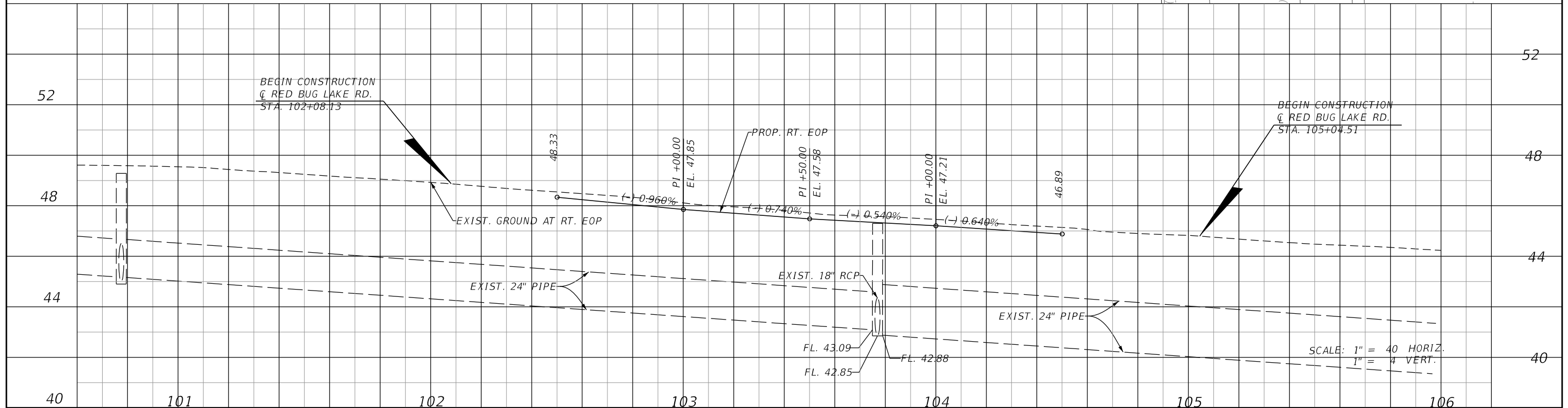
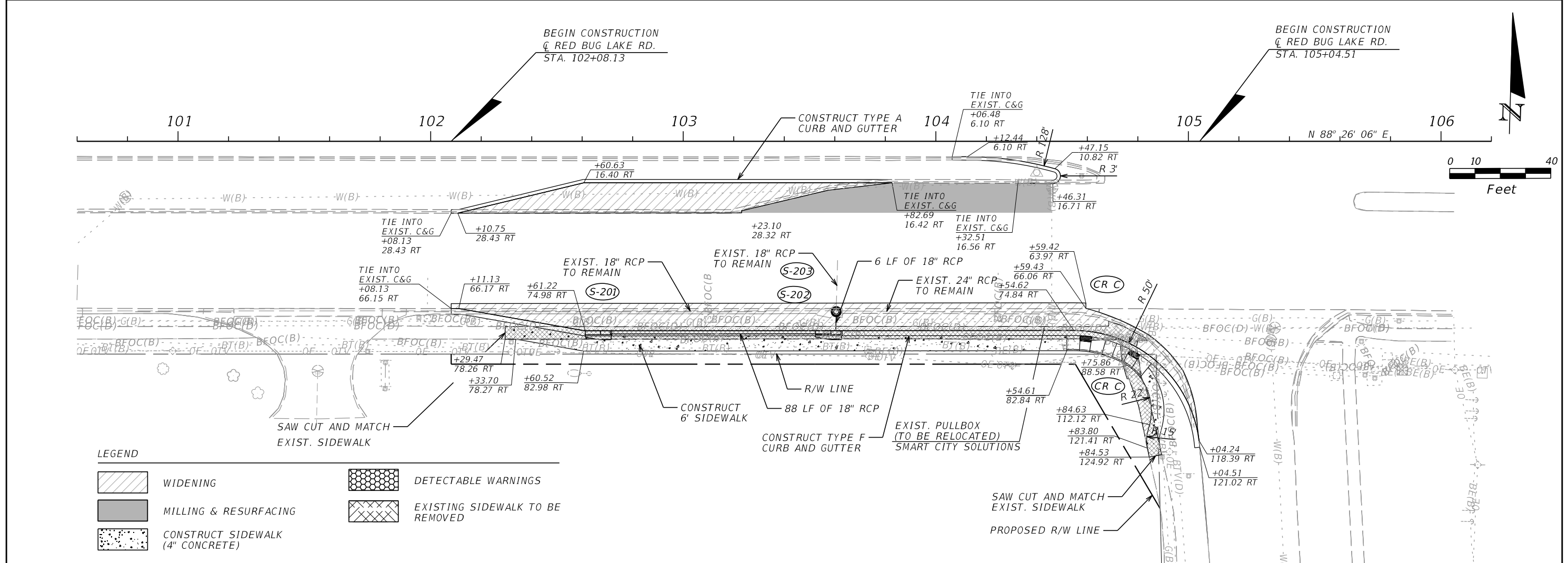


MILLING & RESURFACING DETAIL

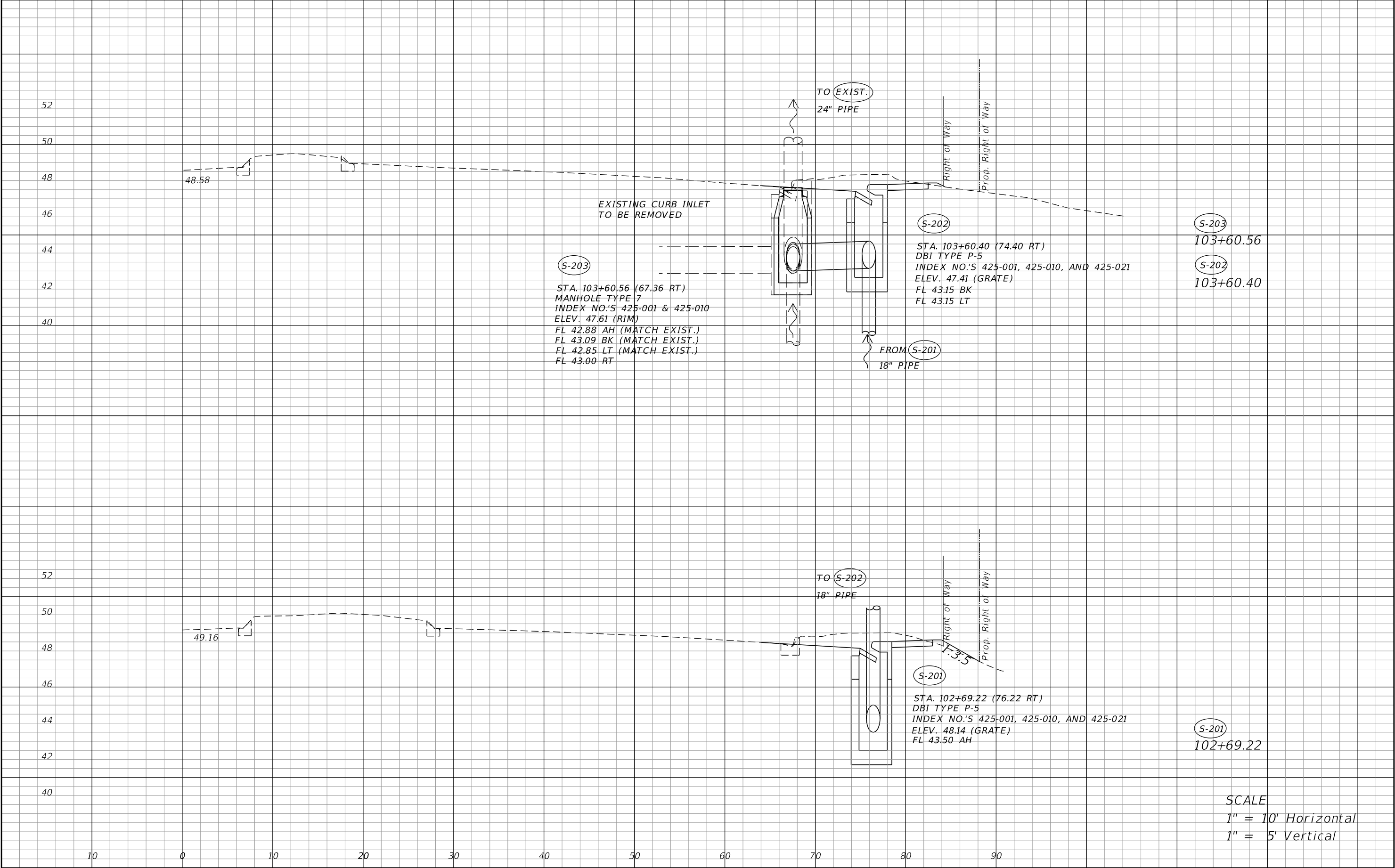
STA. 103+82.69 TO STA. 104+46.31 (LT)

POSTED SPEED = 50 MPH

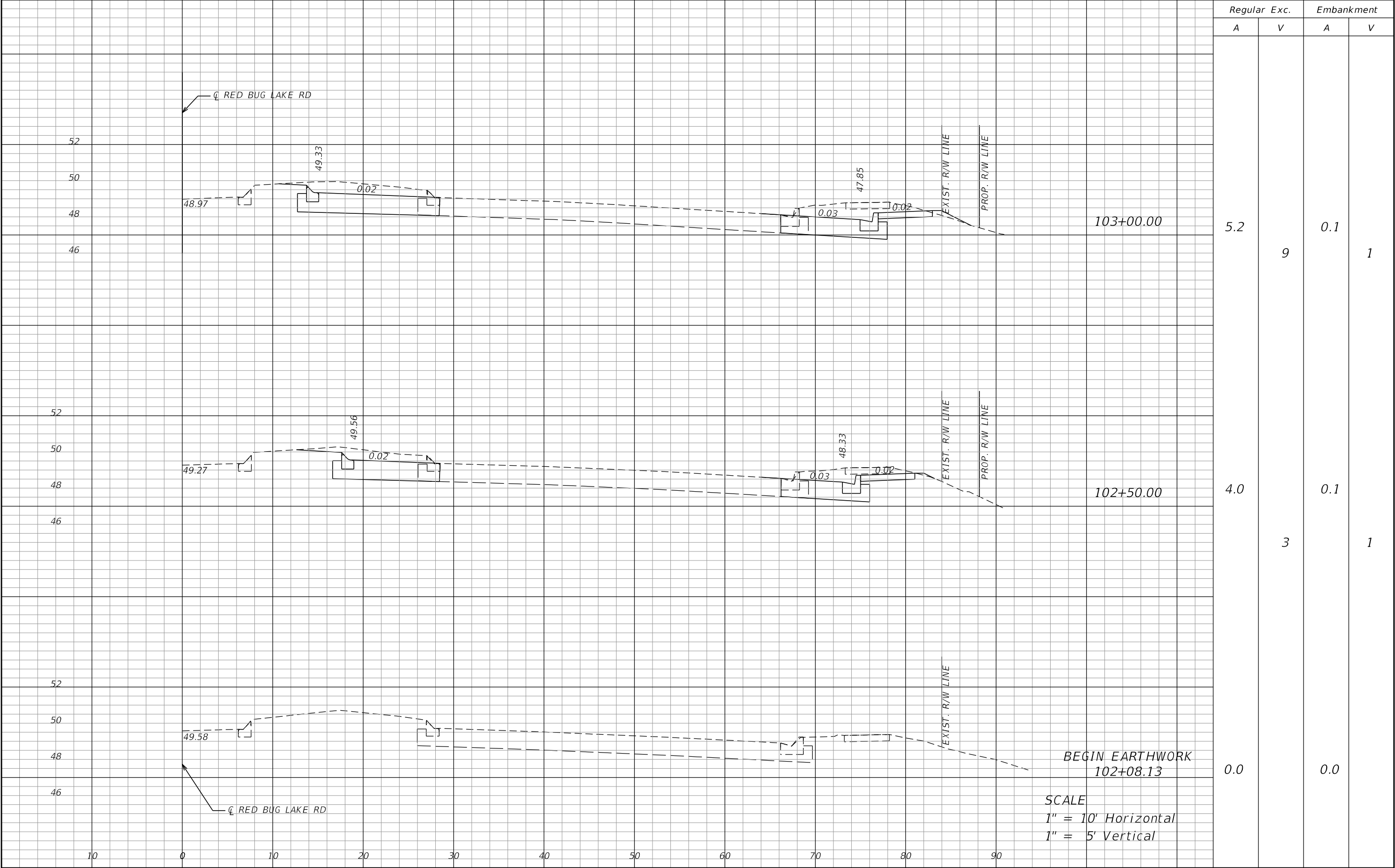
REVISIONS				<div><div>SEMINOLE COUNTY ENGINEERING DIVISION</div><div>DINO E. LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771</div></div>	SEMINOLE COUNTY ENGINEERING DIVISION		TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		4
					RED BUG LAKE RD	02107103		




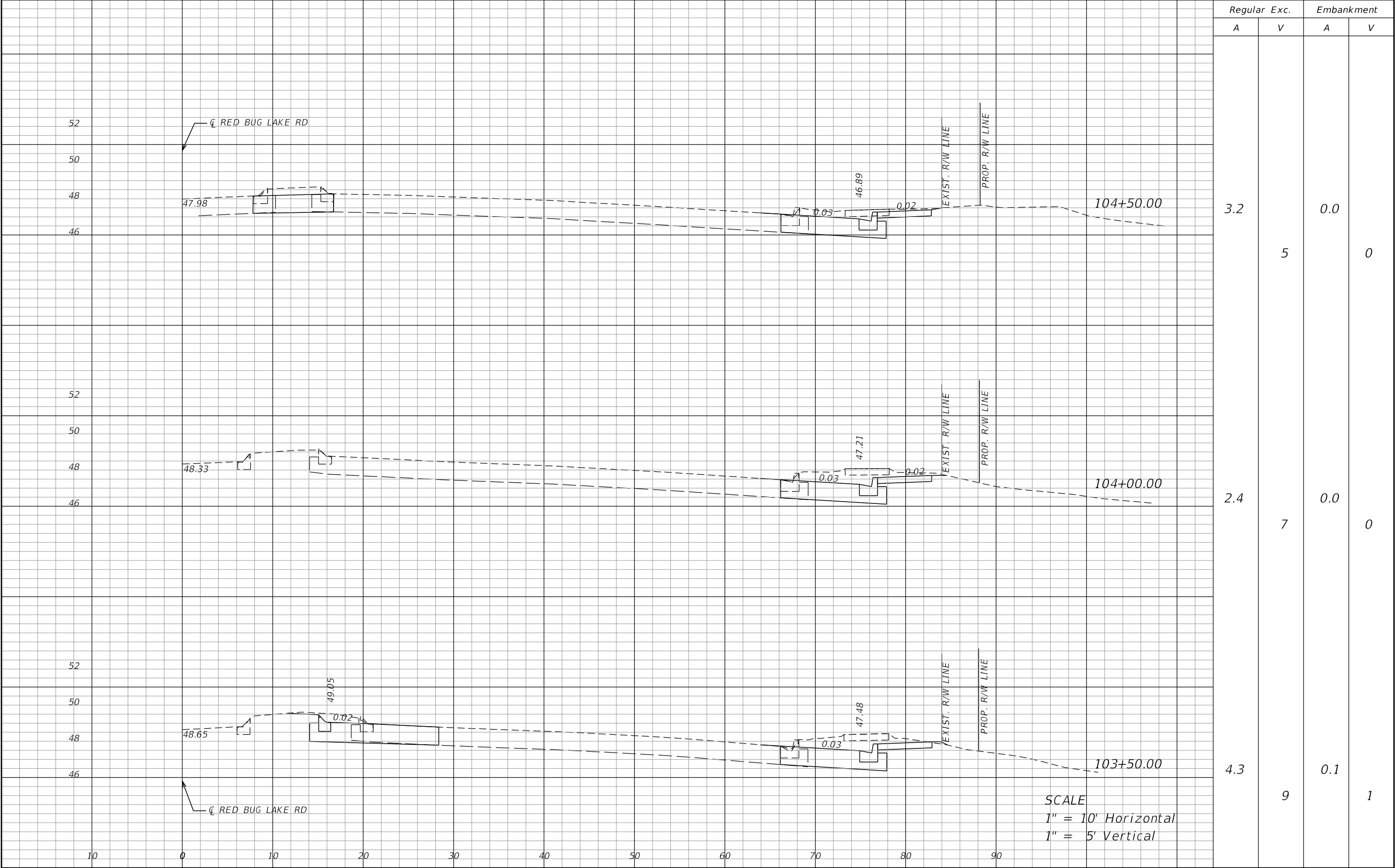
REVISIONS				<div> SEMINOLE COUNTY <small>FLORIDA'S NATURAL CHOICE</small></div> <div>SEMINOLE COUNTY <u>ENGINEERING DIVISION</u> DINO E. LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771</div>	SEMINOLE COUNTY ENGINEERING DIVISION		<i>PLAN AND PROFILE</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		5
					RED BUG LAKE ROAD	02107103		



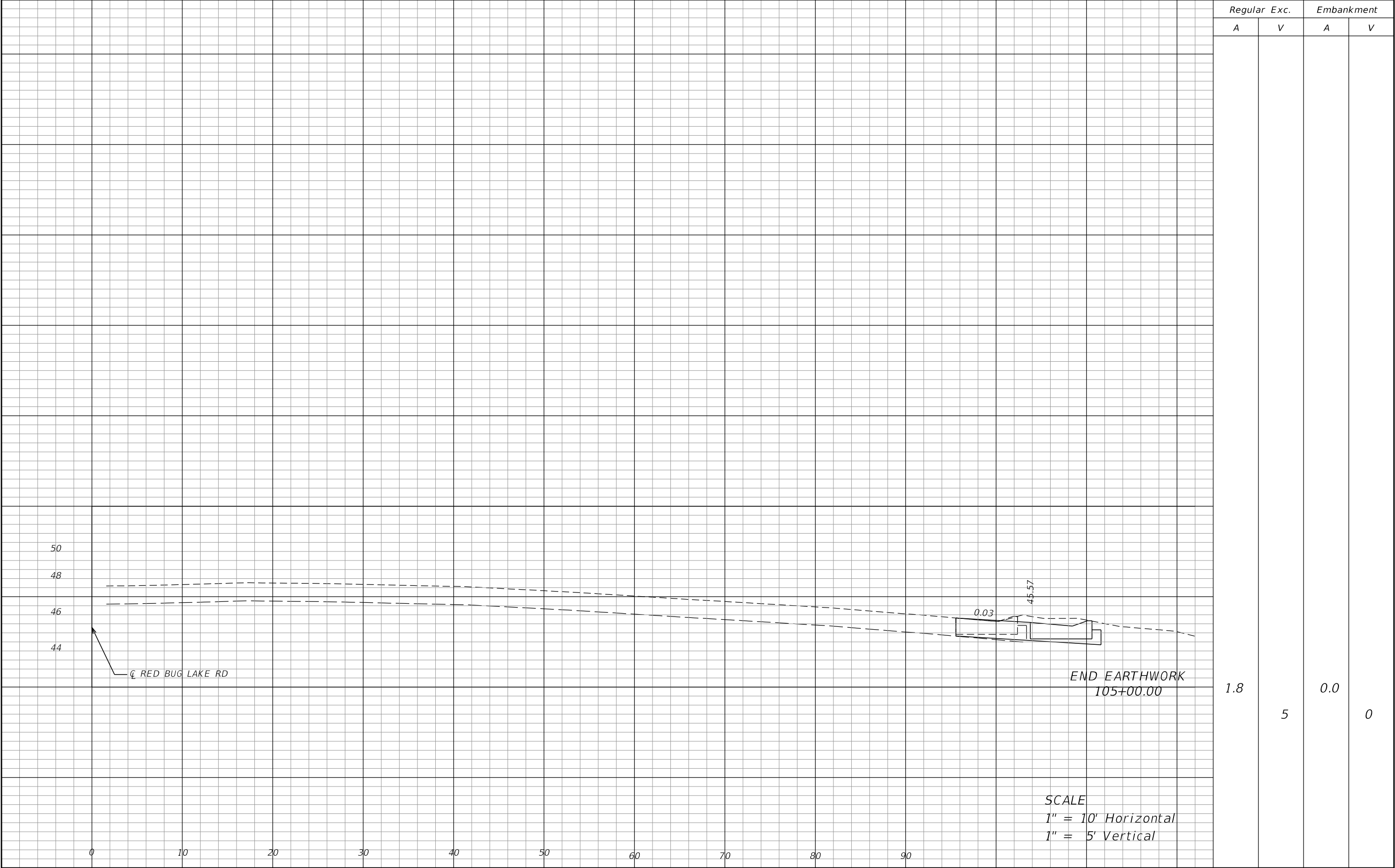
REVISIONS				<div> SEMINOLE COUNTY FLORIDA'S NATURAL CHOICE</div> <div><u>SEMINOLE COUNTY ENGINEERING DIVISION</u></div> <div>DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771</div>	SEMINOLE COUNTY ENGINEERING DIVISION		DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RED BUG LAKE RD.	02107103		



REVISIONS				<div> SEMINOLE COUNTY FLORIDA'S NATURAL CHOICE</div>	SEMINOLE COUNTY ENGINEERING DIVISION		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RED BUG LAKE RD	02107103		7

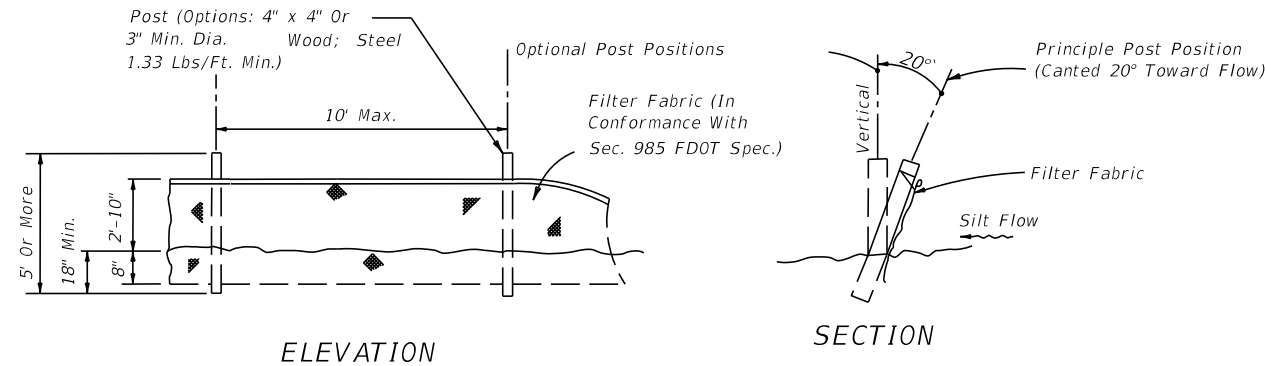


REVISIONS				<div><div>SEMINOLE COUNTY ENGINEERING DIVISION</div><div>DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771</div></div>	SEMINOLE COUNTY ENGINEERING DIVISION		CROSS SECTIONS		SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.			
					RED BUG LAKE RD	02107103			

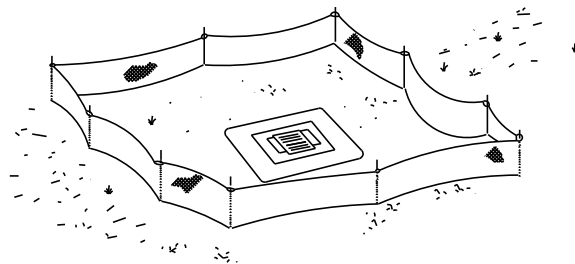


Regular		Exc.	Embankment	
A	V	A	V	
1.8	5	0.0	0	

REVISIONS				<div><div><div><div>SEMINOLE COUNTY</div><div>ENGINEERING DIVISION</div><div>DINO LUCARELLI</div><div>P.E. No. 39556</div><div>100 East 1st. Street</div><div>Sanford, FL 32771</div></div></div></div>	SEMINOLE COUNTY ENGINEERING DIVISION		CROSS SECTIONS	SHEET NO. 9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RED BUG LAKE RD	02107103		



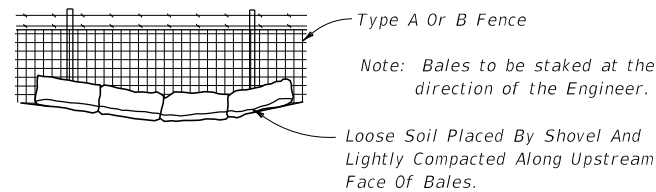
TYPE IV SILT FENCE



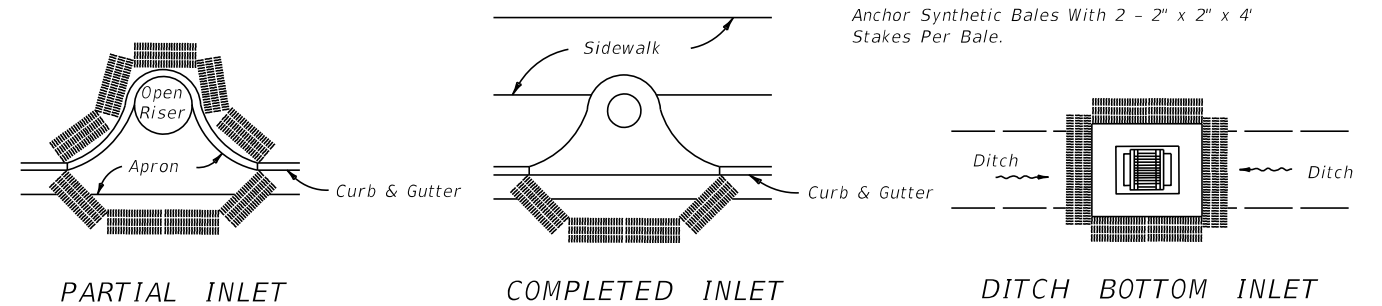
Type IV Silt Fence Protection
Around Ditch Bottom Inlets.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.


SILT FENCE APPLICATIONS

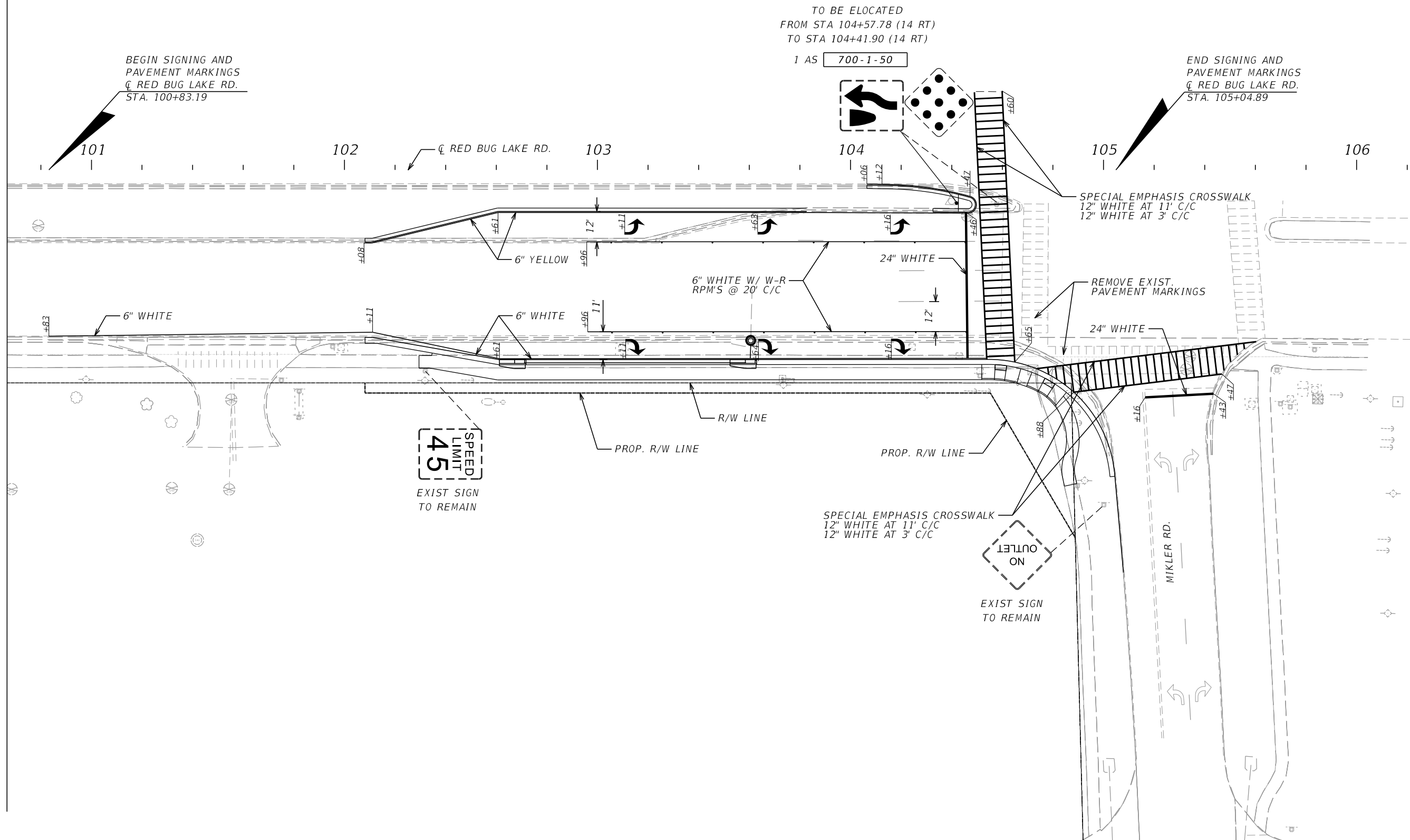


1. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SYNTHETIC BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.
2. NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
3. THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
4. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. (SEE NOTE 16).
5. AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER, DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.
6. THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
7. IF AFTER 14 DAYS, THE TEMPORARY GRASSES AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.
8. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
9. ALL DISTURBED AREAS OUTSIDE THE EXCAVATION AND FILL LIMITS WILL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR CONDITION PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES OR VEGETATION AND RETENTION/DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION. SUCH METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
13. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.
14. PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF WETLANDS, BUFFERS, AND MITIGATION AREAS SHALL BE CLEARLY MARKED ALONG THE PROPOSED RIGHT OF WAY LINE TO PROTECT THESE AREAS FROM ENCROACHMENT FROM CONSTRUCTION ACTIVITIES.
15. ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION BY METHODS STATED IN "SECTION 104," F.D.O.T. STANDARD SPECIFICATIONS FOR BRIDGE AND ROAD CONSTRUCTION. SIDE SLOPE MAY BE SEEDED AND MULCHED, PROVIDED THAT THE MULCH MATERIAL IS DISC HARROWED AND THE SIDE SLOPES ARE NEITHER GREATER THAN 4:1 NOR PART OF A DRAINAGE CONVEYANCE.
16. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 104 PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

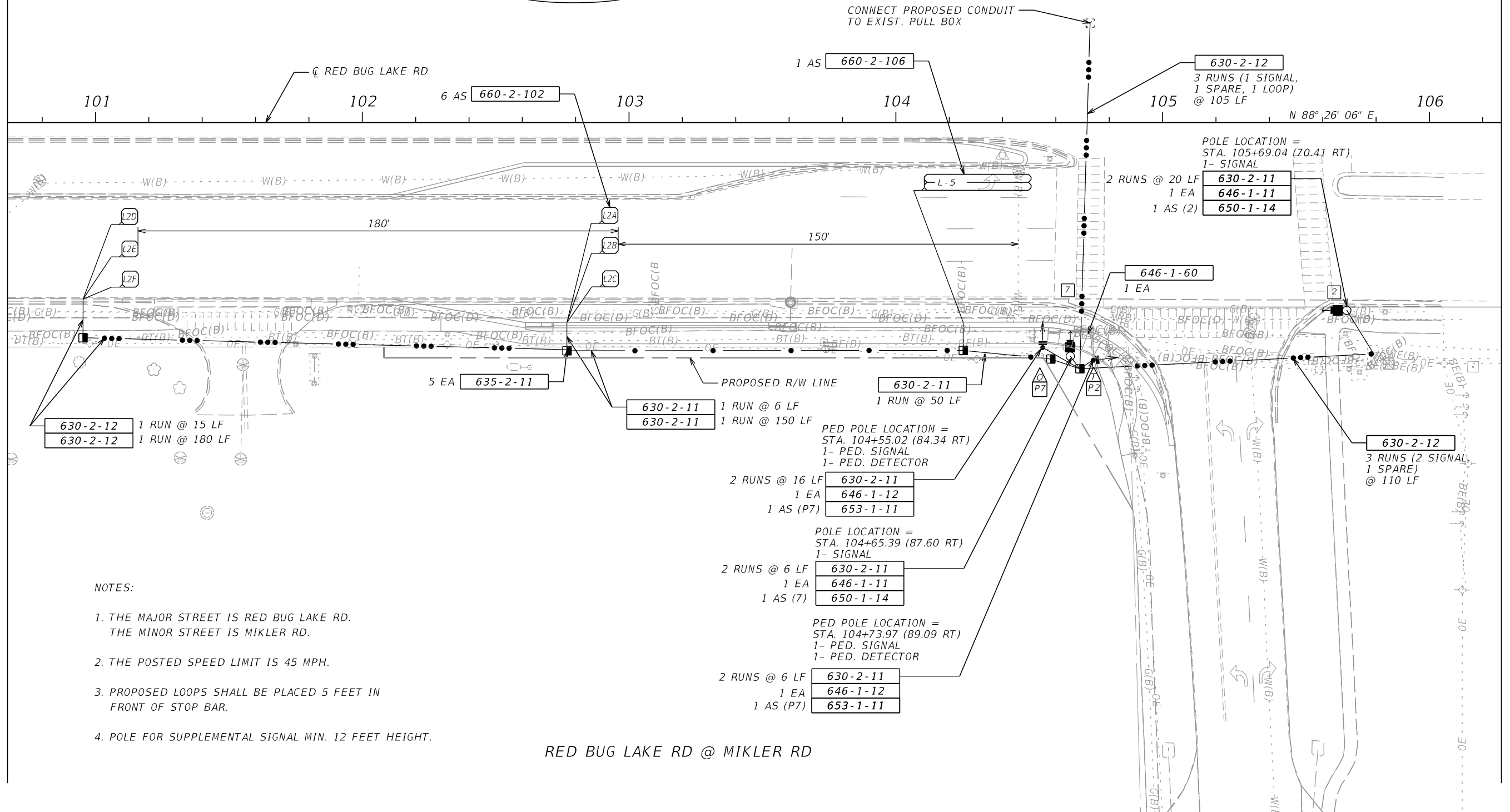
REVISIONS				 SEMINOLE COUNTY FLORIDA'S NATURAL CHOICE	SEMINOLE COUNTY ENGINEERING DIVISION DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		EROSION CONTROL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD	COUNTY CIP No.		
						RED BUG LAKE RD	02107103		10




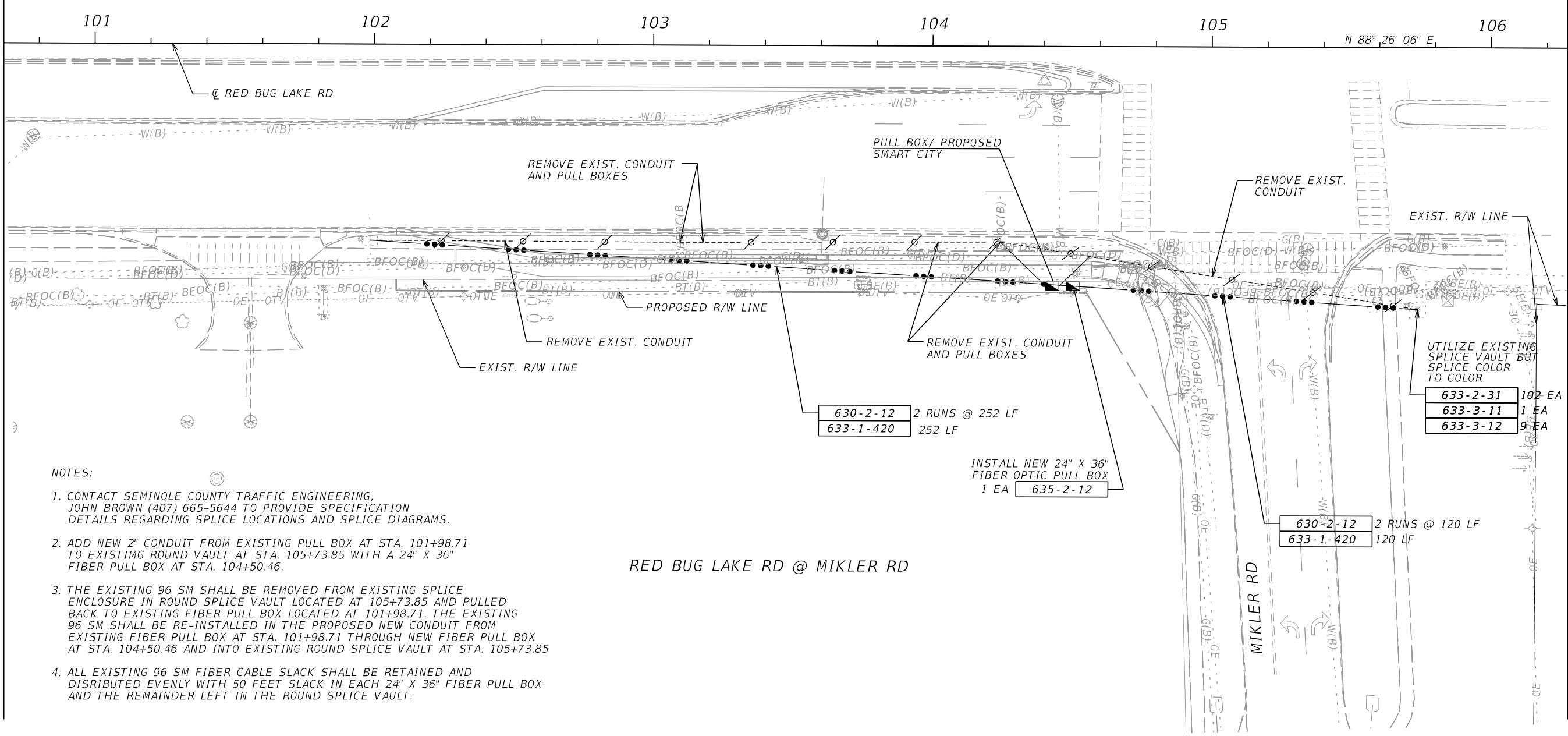
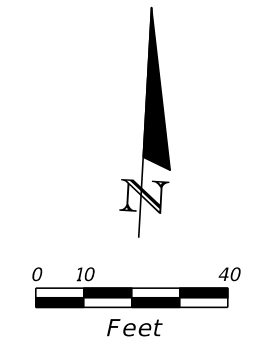
REVISIONS				<div>SEMINOLE COUNTY FLORIDA'S NATURAL CHOICE</div> <div>SEMINOLE COUNTY ENGINEERING DIVISION DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771</div>	SEMINOLE COUNTY ENGINEERING DIVISION		SIGNING AND PAVEMENT MARKING PLAN	SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					RED BUG LAKE RD	02107103		

3-SECT., 1-WAY
2 AS
650-1-14

1-SECT., 1-WAY
2 AS
653-1-11

[illegible]


REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		SIGNALIZATION PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		12
					RED BUG LAKE RD	02107103		



NOTES:


1. CONTACT SEMINOLE COUNTY TRAFFIC ENGINEERING, JOHN BROWN (407) 665-5644 TO PROVIDE SPECIFICATION DETAILS REGARDING SPLICE LOCATIONS AND SPLICE DIAGRAM.
2. ADD NEW 2" CONDUIT FROM EXISTING PULL BOX AT STA. 101+98.71 TO EXISTING ROUND VAULT AT STA. 105+73.85 WITH A 24" X 36" FIBER PULL BOX AT STA. 104+50.46.
3. THE EXISTING 96 SM SHALL BE REMOVED FROM EXISTING SPLICE ENCLOSURE IN ROUND SPLICE VAULT LOCATED AT 105+73.85 AND PULLED BACK TO EXISTING FIBER PULL BOX LOCATED AT 101+98.71. THE EXISTING 96 SM SHALL BE RE-INSTALLED IN THE PROPOSED NEW CONDUIT FROM EXISTING FIBER PULL BOX AT STA. 101+98.71 THROUGH NEW FIBER PULL BOX AT STA. 104+50.46 AND INTO EXISTING ROUND SPLICE VAULT AT STA. 105+73.85
4. ALL EXISTING 96 SM FIBER CABLE SLACK SHALL BE RETAINED AND DISRIBUTED EVENLY WITH 50 FEET SLACK IN EACH 24" X 36" FIBER PULL BOX AND THE REMAINDER LEFT IN THE ROUND SPLICE VAULT.

RED BUG LAKE RD @ MIKLER RD

REVISIONS				<div> SEMINOLE COUNTY <small>FLORIDA'S NATURAL CHOICE</small></div> <div>SEMINOLE COUNTY <u>ENGINEERING DIVISION</u> DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771</div>	SEMINOLE COUNTY <u>ENGINEERING DIVISION</u>		COMMUNICATION PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		13
					RED BUG LAKE RD	02107103		

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES						
LOCATION	SIDE	AREA ID	SEDIMENT BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0104 10 3			
			LF			
			P	F		
102+08.13 to 102+08.13	RT		4.0			
102+08.13 to 104+55.28	RT		247.2			
104+55.28 to 104+88.80	RT		66.2			
SUB-TOTAL :			317.4			
TOTAL :			317			

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				AREA (AC)	P	F	P	F		
0110 4 10	REMOVAL OF EXISTING CONCRETE	102+08.13 TO 103+82.69	RT		SY		26.1		115			
		104+06.48 TO 104+32.51	RT		SY		20.0					
		102+08.13 TO 105+02.34	RT		SY		68.7					

SUMMARY OF PAVEMENT																
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS		
		STA. TO STA.	DESCRIPTION						P	F	P	F				
285713	Optional Base, Base Group 13	102+02.30 to 104+00.02		RT	4756			SY	188.3		577					
		102+07.13 to 105+05.23		RT	4763				388.9							
0327 70 6	Milling Exist Asph Pavt, 1 1/2" Avg Depth	103+23.10 to 104+45.76		RT	10273			SY	129.8		130					
0334 1 53	Superpave Asphaltic Concrete, Traffic C, PG 76-22	102+08.13 to 105+04.24		RT	4950			TN	26.10		38.2					
		102+10.75 to 103+82.69		RT	4959				12.12							
0337 7 83	Asphalt Concrete Friction Course, Traffic C, FC-12.5, PG 76-22	102+08.13 to 105+04.24		RT	5132			TN	26.10		48.8					
		102+10.75 to 104+45.76		RT	5157				22.70							
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DATE	DESCRIPTION	DATE	DESCRIPTION													
								ROAD		COUNTY CIP No.						
				RED BUG LAKE RD				02107103								

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY					TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P	F		
							TYPE	LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F	102+08.13 to 105+04.51	RT		LF	319.7					320			
0520 2 1	Concrete Curb, Type A	102+08.13 to 103+87.69	RT		LF	176.0					238			
		104+12.44 to 104+32.51	RT		LF	61.7								

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0527 2			
SY					SF					
P					F	P	F			
102+29.46 to 104+89.46	RT	3207			190.1					
104+57.09 to 104+61.74	RT	5930					9.0			
104+75.96 to 104+80.83	RT	5935					9.0			
SUB-TOTAL :					190.1		18.0			
TOTAL :					190		18			

SUMMARY OF PERFORMANCE TURF								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570 1 2			
					SY			
					P	F		
102+03.79 to 104+46.79	RT	3605			177.1			
102+05.13 to 104+88.80	RT	3604			278.8			
104+84.11 to 105+02.52	RT	3603			32.2			
SUB-TOTAL :					488.1			
TOTAL :					488			

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DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD	COUNTY CIP No.		
						RED BUG LAKE RD	02107103		

SIGNING AND PAVEMENT MARKINGS TABULATION OF QUANTITIES						
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER		GRAND TOTAL	
			11		PLAN	FINAL
			PLAN	FINAL		
700-1-50	SINGLE POST SIGN, RELOCATE	EA	1		1	
706-1-1	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE-RED	EA	16		16	
711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF	671		671	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	436		436	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	85		85	
711-11-221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	291		291	
711-14-170	THERMOPLASTIC, STANDARD, WHITE, ARROWS	EA	6		6	
711-17-1	THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS	SF	725		725	

SIGNALZATION TABULATION OF QUANTITIES						
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER		GRAND TOTAL	
			12		PLAN	FINAL
			PLAN	FINAL		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	302		302	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	840		840	
635-2-11	PULL & SPLICE BOX, F&I, 13"x24" COVER SIZE	EA	5		5	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	2		2	
646-1-12	ALUMINUM SIGNALS POLE, F&I PEDESTAL DETECTOR POST	EA	2		2	
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	1		1	
650-1-14	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS	2		2	
653-1-11	PEDESTRAIN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS	2		2	
660-2-102	LOOP ASSEMBLY, F&I , TYPE B	AS	6		6	
660-2-106	LOOP ASSEMBLY, F&I , TYPE F	AS	1		1	

INTERCONNECT TABULATION OF QUANTITIES						
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER		GRAND TOTAL	
			13		PLAN	FINAL
			PLAN	FINAL		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	744		744	
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF	372		372	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	102		102	
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1		1	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	9		9	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		1	

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