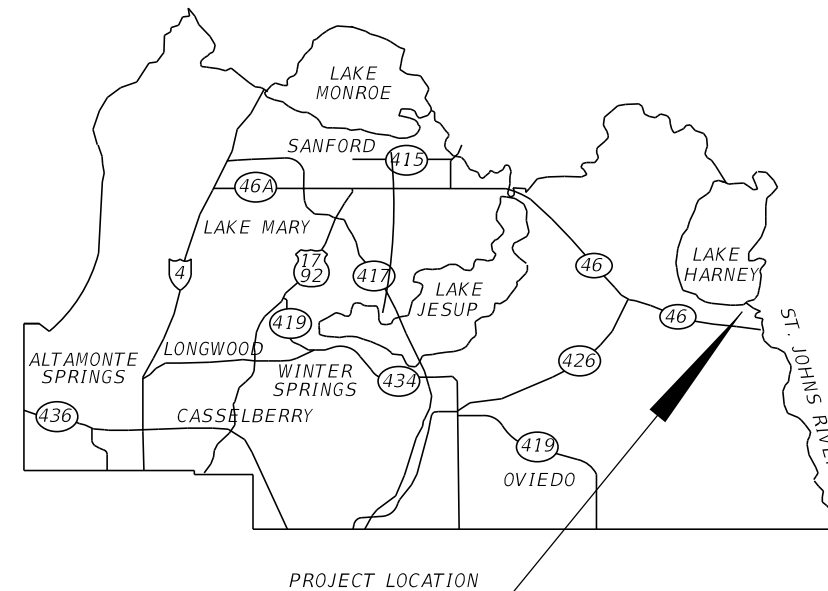


**SEMINOLE COUNTY
PUBLIC WORKS
CONTRACT PLANS**



**LAKE HARNEY CIRCLE DRAINAGE IMPROVEMENTS
DISTRICT 2
SEMINOLE COUNTY CIP NO. 02307092**



**CONTRACT PLANS COMPONENTS
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	GENERAL NOTES
4	ROADWAY PLAN
5-7	PLAN-PROFILE
8	DRAINAGE CROSS SECTIONS
9-12	ROADWAY CROSS SECTIONS
13	STORM WATER POLLUTION PREVENTION PLAN
SQ-1-4	SUMMARY OF QUANTITIES

GOVERNING STANDARD PLANS:

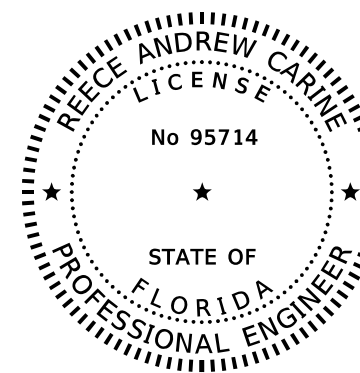
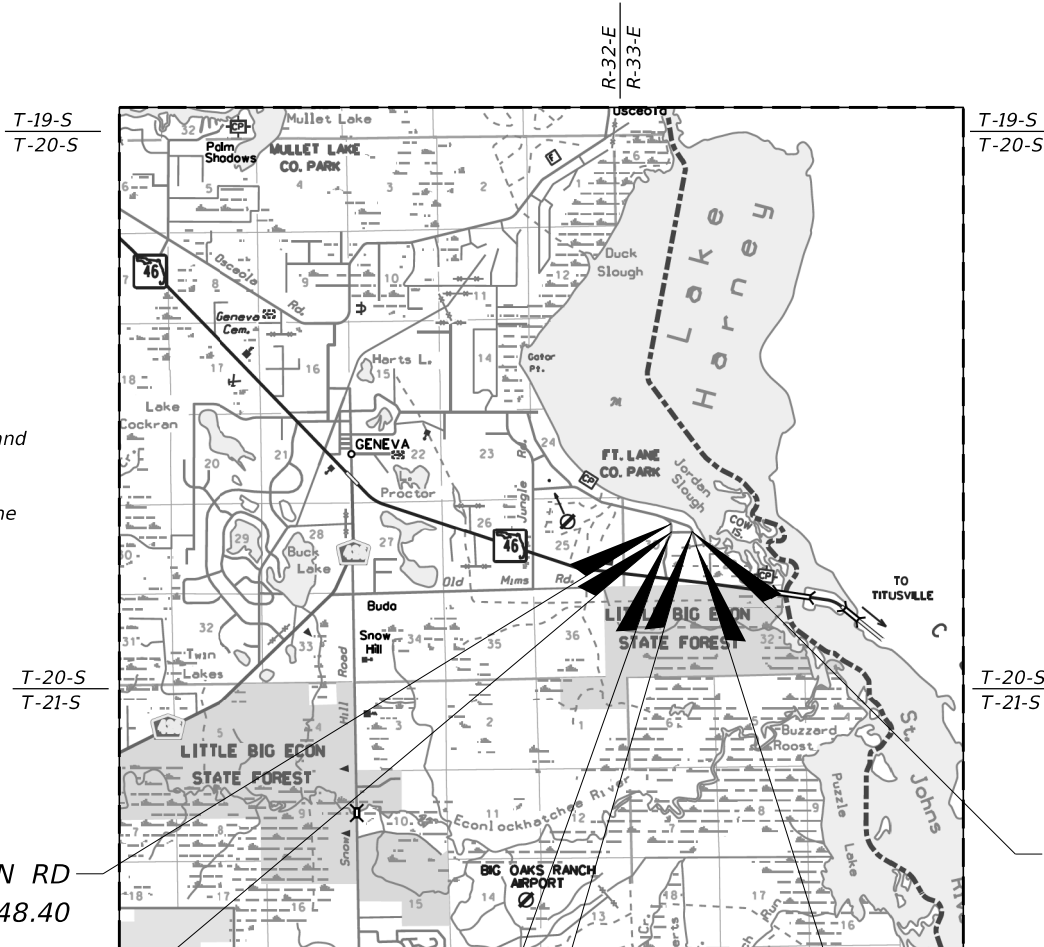
Florida Department of Transportation, FY2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

APPLICABLE IRs: IR - -

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL
PRINTED COPIES OF THIS DOCUMENT ARE
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ON ANY ELECTRONIC COPIES.

BEGIN LAKE HARNEY CIRCLE
STA. 1000+00.00

END REST HAVEN RD
STA. 106+48.40

BEGIN PROJECT
STA. 1+00.00

BEGIN MARION AVE.
STA. 102+94.71

END MARION AVE.
STA. 11+90.35

END PROJECT
STA. 1007+03.08

**ROADWAY PLANS
ENGINEER OF RECORD:**

REECE A. CARINE, PE
P.E. LICENSE NUMBER 95714
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY, SUITE 100
LAKE MARY, FL 32746
(407) 833-9898

COUNTY PROJECT MANAGER:

JORGE JIMENEZ

SURVEYOR:
CHAD COLSON- NV5
6200 LEE VISTA BLVD, SUITE 400
ORLANDO, FL 32822
407.275.5120
(386) 518-5122

FISCAL YEAR	SHEET NO.
25	1

NOT FOR CONSTRUCTION

BOARD OF COUNTY COMMISSIONERS

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

DARREN GRAY, COUNTY MANAGER
JAY ZEMBOWER, CHAIRMAN
JEAN JREIJ, PUBLIC WORKS DIRECTOR

ITEM No.	DESCRIPTION	UNIT	QUANT
ROADWAY			
0101 1	MOBILIZATION	LS	1
0102 1	MAINTENANCE OF TRAFFIC	LS	1
0104 12	STAKED TURBIDITY BARRIER	LF	1898
0110 1 1	CLEARING AND GRUBBING	AC	1.86
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	16
110-7-1	MAILBOX, F&I SINGLE	EA	4
0120 1	REGULAR EXCAVATION	CY	3314
0120 6	EMBANKMENT	CY	552
285706	OPTIONAL BASE, BASE GROUP 06	SY	94
327 70 1	MILLING EXISTING ASPHALT PAVEMENT, 1" AVG DEPTH	SY	1013
0337 7 80	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-9.5, PG 76-22	TN	55.72
430-174-136-A	CONCRETE PIPE CULVERT, SD, CLASS III, 36"	LF	312
430-175-148-A	CONCRETE PIPE CULVERT, S/CD, CLASS III, 48"	LF	70
430-175-236-A	ELLIPTICAL CONCRETE PIPE CULVERT, S/CD, CLASS HE-III, 29"X 45"	LF	138
0430536200	STRAIGHT CONCRETE ENDWALLS, 36", DOUBLE, 0 DEGREES, ROUND	EA	8
0430548200	STRAIGHT CONCRETE ENDWALLS, 48", DOUBLE, 0 DEGREES, ROUND	EA	2
430-982-638-A	MITERED END SECTION, CD, CONCRETE PIPE ELLIPTICAL, CLASS HE-III, 29"X 45"	EA	6
550-10-410	FENCING, WOOD FENCE, 5.0'-6.0"	LF	428
057012	PERFORMANCE TURF, SOD	SY	7839
SIGNING AND PAVEMENT MARKINGS			
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	3

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REVISIONS		PROFESSIONAL TYPE	
DATE	DESCRIPTION	DATE	DESCRIPTION
	NOT FOR CONTRUCTION		

REECE CARINE, PE
 LICENSE NUMBER: 95714
 JMT - JOHNSON, MIRMIRAN, & THOMPSON
 400 COLONIAL CENTER PRKY, SUITE 100
 LAKE MARY, FL 32746

SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT	
ROAD IDENTIFICATION	COUNTY CIP NO.
LAKE HARNEY RD	02307092

SUMMARY OF PAY ITEMS

SHEET NO.
2

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

GENERAL NOTES

1. GRADES SHOWN ARE FINISHED GRADES.
 2. B.M. DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988. (NADV88)
 3. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE CURRENT STATE OF FLORIDA 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 PROPOSED CONSTRUCTION. THE CONTRACTOR SHOULD ASSUME OTHER UTILITIES THAT ARE NOT LISTED MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF PROPOSED CONSTRUCTION.
- | UTILITY AGENCY/OWNER | CONTACT | PHONE |
|----------------------------------|---------------------|----------------|
| AT&T DISTRIBUTION | DINO FARRUGGIO | (561) 683-2729 |
| CHARTER COMMUNICATIONS | USIC DISPACH OFFICE | (800) 778-9140 |
| FLORIDA POWER & LIGHT - SEMINOLE | USIC DISPACH OFFICE | (800) 778-9140 |
| LAKE HARNEY WATER ASSOCIATION | TIM KING | (321) 537-7405 |
5. ALL SURVEY CORNERS INDICATED ON THE PLANS SHALL BE REFERENCED AND CERTIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL CORNERS DESTROYED OR OBLITERATED BY CONSTRUCTION SHALL BE RESET AND SO CERTIFIED BY THE LAND SURVEYOR PRIOR TO COMPLETION OF THE PROJECT. CERTIFIED SKETCHES SHALL BE SUBMITTED TO: SEMINOLE COUNTY ROADS-STORMWATER DIVISION, SURVEY SECTION.
 6. NO VIBRATORY COMPACTION SHALL BE USED ON THE PROJECT, INCLUDING ON EARTHWORK OR RECONSTRUCTION OUTSIDE THE ROADWAY SURFACE PAVING LIMITS.
 7. ANY PUBLIC LAND CORNER 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 COUNTY LOCATION SURVEY WITHOUT DELAY BY TELEPHONE.
 8. ALL MATERIALS, CONSTRUCTION, INSPECTIONS, AND TESTS SHALL, AS A MINIMUM, CONFORM TO FDOT STANDARD SPECIFICATIONS, AND SUPPLEMENTS THERETO, AND TO SPECIAL PROVISIONS FOR THIS PROJECT.
 9. ALL SHOP DRAWING MUST BE APPROVED BY THE ENGINEER OF RECORD (E.O.R.) PRIOR TO FABRICATION.
 10. PERMANENT TURNOUTS AND DRIVEWAY CONNECTIONS TO PRIVATE PROPERTY THAT LIE OUTSIDE THE LIMITS OF RIGHT-OF-WAY AND WHERE ACCESS RIGHTS HAVE NOT BEEN ACQUIRED SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TURNOUT DETAILS AND STATE STANDARD SPECIFICATIONS REFERENCED ON THE KEY SHEET OF THESE PLANS. THE COUNTY OR THE COUNTY'S CONTRACTOR SHALL NOT ISOLATE ADJACENT AND/OR REMAINDER PROPERTY UNLESS ACCESS RIGHTS ARE ACQUIRED. ACCESS SHALL BE PROVIDED TO SUCH PROPERTY WHENEVER CONSTRUCTION INTERFERES WITH THE EXISTING MEANS OF ACCESS.
 11. 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 PLANS, COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
 12. CONSTRUCTION SHALL INCLUDE REPLACING WITH MATCHING MATERIALS ALL SOD, DRIVEWAYS, WALKS, CURBS, ETC. THAT ARE DAMAGED OR REMOVED DUE TO CONSTRUCTION AND WORK SHALL BE COORDINATED WITH PROPERTY OWNERS.
 13. ANY DRAINAGE PROBLEMS, CREATED BY CONSTRUCTION OR EXISTING BEFORE CONSTRUCTION, THAT ARE NOT ALLEVIATED SHOULD BE BROUGHT TO THE ATTENTION OF THE SEMINOLE COUNTY PUBLIC WORKS PROJECT MANAGER.
 14. ANY GRASSED AREA OUTSIDE THE IMMEDIATE CONSTRUCTION AREA DISTURBED BY THE CONTRACTOR WILL BE SODDED AT THE CONTRACTOR'S EXPENSE.
 15. ONE WEEK PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO OBTAIN A "R/W UTILIZATION PERMIT" FROM SEMINOLE COUNTY PUBLIC WORKS, ENGINEERING DIVISION, 100 E. 1ST STREET, SANFORD, FL 32771, TELEPHONE 407-665-5674. PERMIT FEE WILL BE WAIVED.
 16. IRRIGATION LINES DAMAGED DURING CONSTRUCTION ARE TO BE CAPPED IMMEDIATELY AND REPORTED TO THE SEMINOLE COUNTY PUBLIC WORKS INSPECTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE THE DAMAGED IRRIGATION COMPONENTS TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE PRIOR TO COMPLETION OF THE PROJECT.
 17. CUT AND FILL QUANTITIES ARE PULLED FROM THE 3D MODEL.

EROSION CONTROL NOTES

1. PROVIDE EROSION AND SEDIMENTATION MEASURES CONSISTING OF STAKED SILT FENCES AND ADDITIONAL MEASURES AS NECESSARY, UTILIZING INDUSTRY STANDARD BEST MANAGEMENT PRACTICES AND FOLLOWING REQUIREMENTS BELOW, AVOID ADVERSE IMPACTS TO JURISDICTIONAL AREAS (WETLANDS, WATER BODIES, AND UPLAND BUFFERS) AND OFF SITE LANDS AND WATER BODIES, MAINTAIN THESE MEASURES DAILY UNTIL CONSTRUCTION ACCEPTANCE BY SEMINOLE COUNTY AND THEN REMOVE AND LEGALLY DISPOSE OF SAID MEASURES.
2. NO DISCHARGE OF CONTAMINANTS INTO ADJACENT WETLANDS, WATER BODIES, OR UPLAND BUFFERS WILL BE PERMITTED AT ANY TIME.
3. DAMAGE TO WETLANDS AND/OR UPLAND BUFFERS ADJACENT TO CONSTRUCTION AREAS SHALL BE PREVENTED BY DELINEATING THE LIMITS OF CONSTRUCTION, AND INSTALLING SEDIMENT BARRIERS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THEREBY RETAINING SEDIMENT WITHIN THE CONSTRUCTION AREA. CONTRACTOR WILL BE REQUIRED TO ADEQUATELY MAINTAIN THESE PROTECTION MEASURES AT ALL TIMES.
4. EROSION CONTROL AND DUST CONTROL SHALL BE MAINTAINED WITHIN CONSTRUCTION AREAS BY QUICKLY STABILIZING DISTURBED AREAS TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING GRASS COVER, TURBIDITY FENCES, PERIODIC WATERING, AND OTHER BEST MANAGEMENT PRACTICES WHICH ARE ACCEPTABLE TO THE SEMINOLE COUNTY ENGINEERING INSPECTOR AND REGULATORY AGENCIES.
5. TURBIDITY BARRIERS SHALL BE USED TO PREVENT RELEASE OF SEDIMENT AND/OR TURBID WATER INTO SURROUNDING WATERS. THESE SEDIMENT AND TURBIDITY BARRIERS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
6. DURING CONSTRUCTION THE CONTRACTOR SHALL MODIFY OR RELOCATE THE SILT FENCE (WITH SEMINOLE COUNTY'S PRIOR APPROVAL) TO ALLOW FOR ITS ACCESS AND TO COMPLETE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE EROSION CONTROL AT ALL TIMES.
7. ALL EROSION PREVENTION AND CONTROL MEASURES MUST BE INSPECTED AND APPROVED BY THE COUNTY COMPLIANCE PERSONNEL AS REQUIRED, PRIOR TO ANY CONSTRUCTION ACTIVITIES. REMOVAL OF THESE SAME EROSION CONTROLS AND PREVENTION MEASURES MAY BE DONE ONLY AFTER AUTHORIZATION BY COUNTY PERSONNEL IS OBTAINED.
8. ALL SURFACE WATER DISCHARGE FROM SITE, INCLUDING DE-WATERING DISCHARGE, SHALL MEET CURRENT STATE WATER QUALITY STANDARDS PRIOR TO REACHING ANY WATERS OF THE STATE INCLUDING WETLANDS.
9. ALL STORM DRAINAGE INLETS AND PIPES SHALL BE PROTECTED FROM SILT, SAND AND DEBRIS DURING CONSTRUCTION. ANY ACCUMULATION WITHIN THE STORM DRAINAGE PIPE SYSTEM SHALL BE REMOVED WITHOUT PUMPING OR FLUSHING, STORM DRAINAGE SYSTEM SHALL BE CLEANED AND FREE OF DEBRIS PRIOR TO ENGINEER'S/INSPECTOR'S ACCEPTANCE.

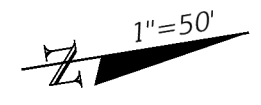
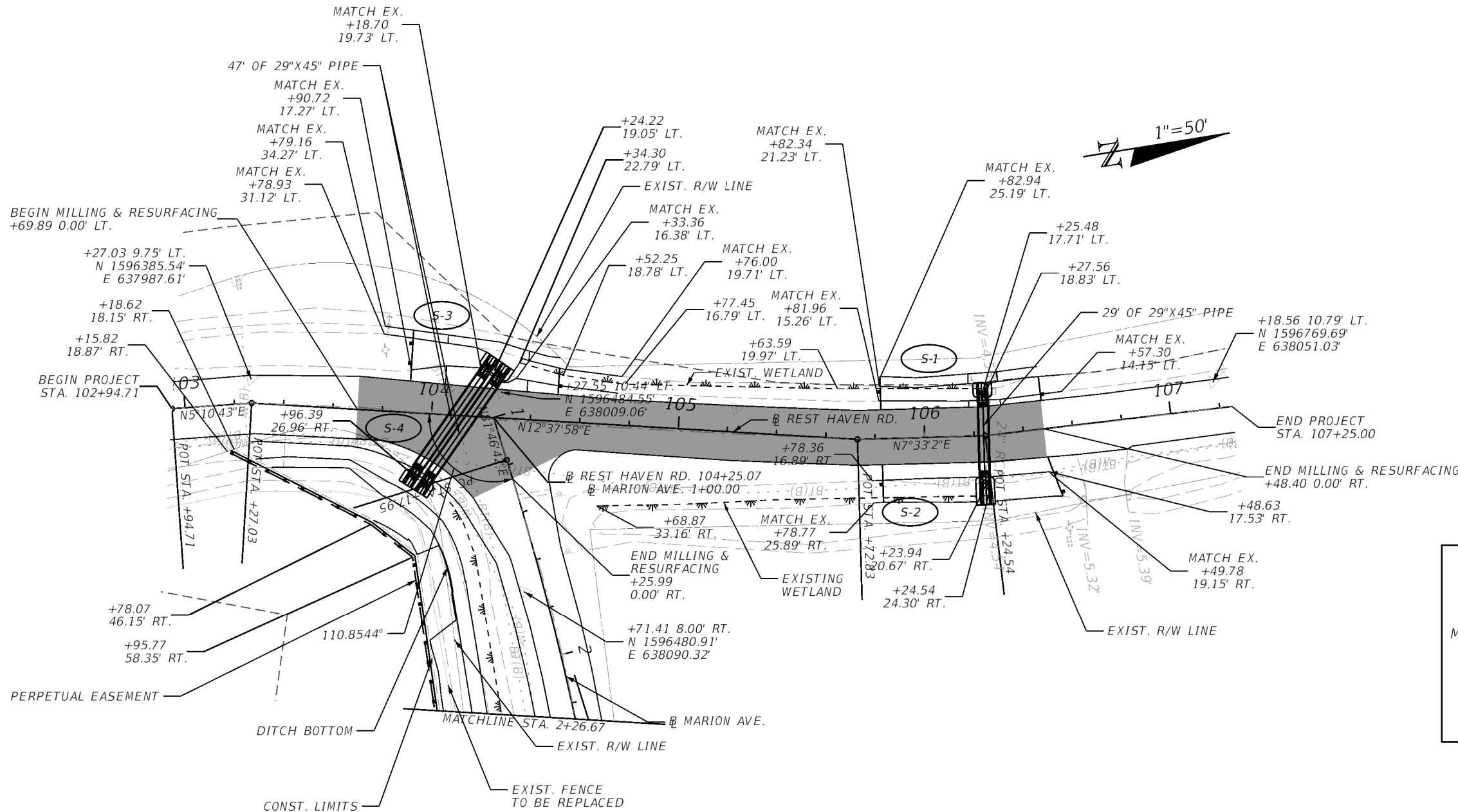
TEMPORARY TRAFFIC CONTROL NOTES

1. VEHICULAR AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 102-600. THE STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS A MINIMUM.
2. LANE CLOSURES SHALL BE PERMITTED ONLY DURING ACTIVE WORK PERIODS.
3. PORTABLE-CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED DURING, AND IN ADVANCE OF ALL LANE CLOSURES. TWO PCMS, MINIMUM, SHALL BE PROVIDED FOR EACH LANE CLOSURE FROM SEVEN DAYS PRIOR TO CLOSURE THRU END OF CLOSURE.
4. SEMINOLE COUNTY IS ADMINISTERING THE CONSTRUCTION OF THIS PROJECT. IT IS THE COUNTY'S POLICY TO PLACE THE RESPONSIBILITY FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION ON THE CONTRACTOR. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN SIGNED AND SEALED BY A STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER TO THE COUNTY PRIOR TO BEGINNING THE PROJECT. THE APPLICATION AND REFERENCE OF SPECIFIC FDOT STANDARD PLANS INDICES IS ACCEPTABLE.

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REVISIONS				PROFESSIONAL TYPE	SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.	GENERAL NOTES	
	NOT FOR CONSTRUCTION			REECE CARINE, PE LICENSE NUMBER: 95714 JMT - JOHNSON, MIRMIRAN, & THOMPSON 400 COLONIAL CENTER PRKY, SUITE 100 LAKE MARY, FL 32746	LAKE HARNEY RD		

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WITHIN AREAS OF PIPE CONSTRUCTION
PAVEMENT DESIGN IS AS FOLLOWS:

MILLING AND RESURFACING
MILL EXISTING ASPHALT PAVEMENT (1" DEPTH)
FRICTION COURSE FC-9.5 (1") (PG 76-22)

NEW CONSTRUCTION
OPTIONAL BASE GROUP 6
FRICTION COURSE FC-9.5 (1") (PG 76-22)

LEGEND:

MILLING AND RESURFACING


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REVISIONS		PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		ROADWAY PLAN	SHEET NO. 4
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.		
	NOT FOR CONSTRUCTION			LAKE HARNEY RD	02307092		

REECE CARINE, PE
LICENSE NUMBER: 95714
JMT - JOHNSON, MIRMIRAN, & THOMPSON
400 COLONIAL CENTER PRKY, SUITE 100
LAKE MARY, FL 32746

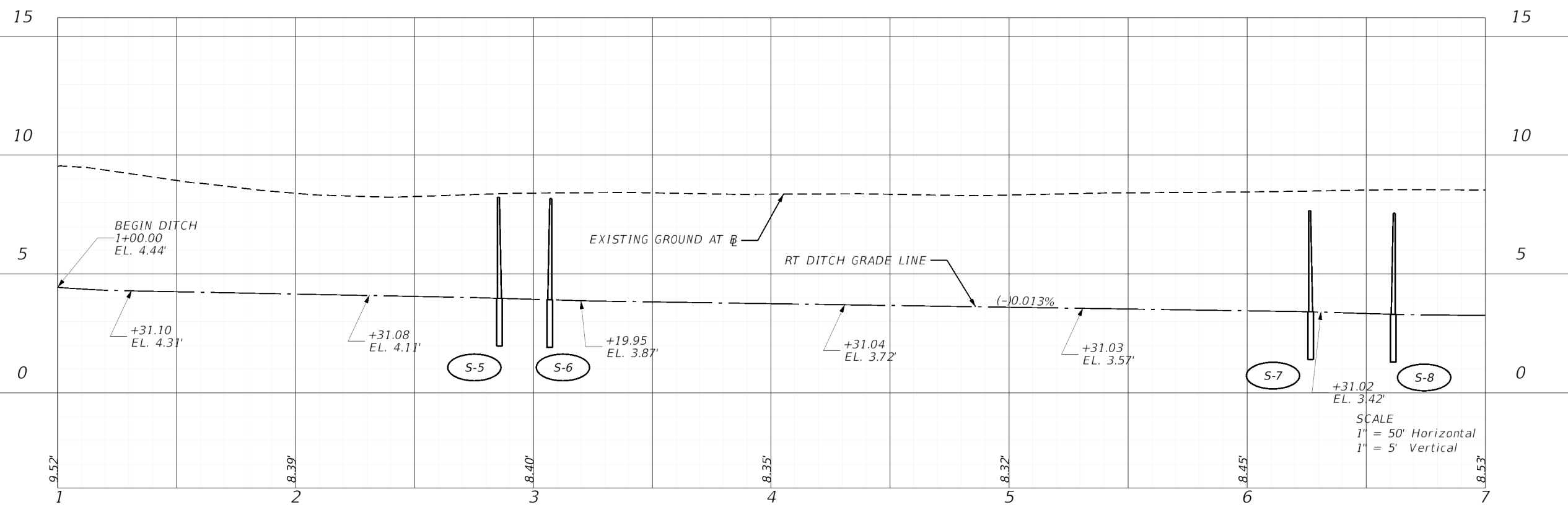
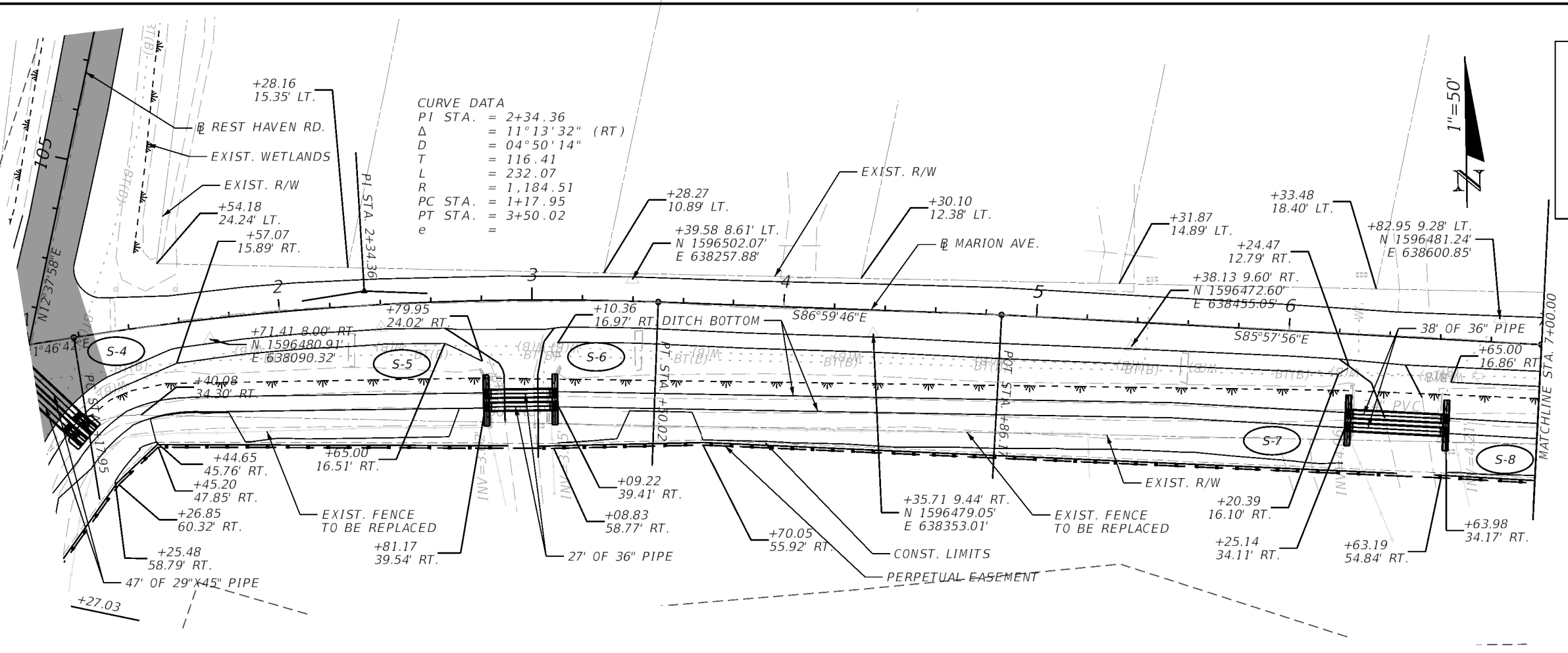
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LEGEND:

 MILLING AND RESURFACING



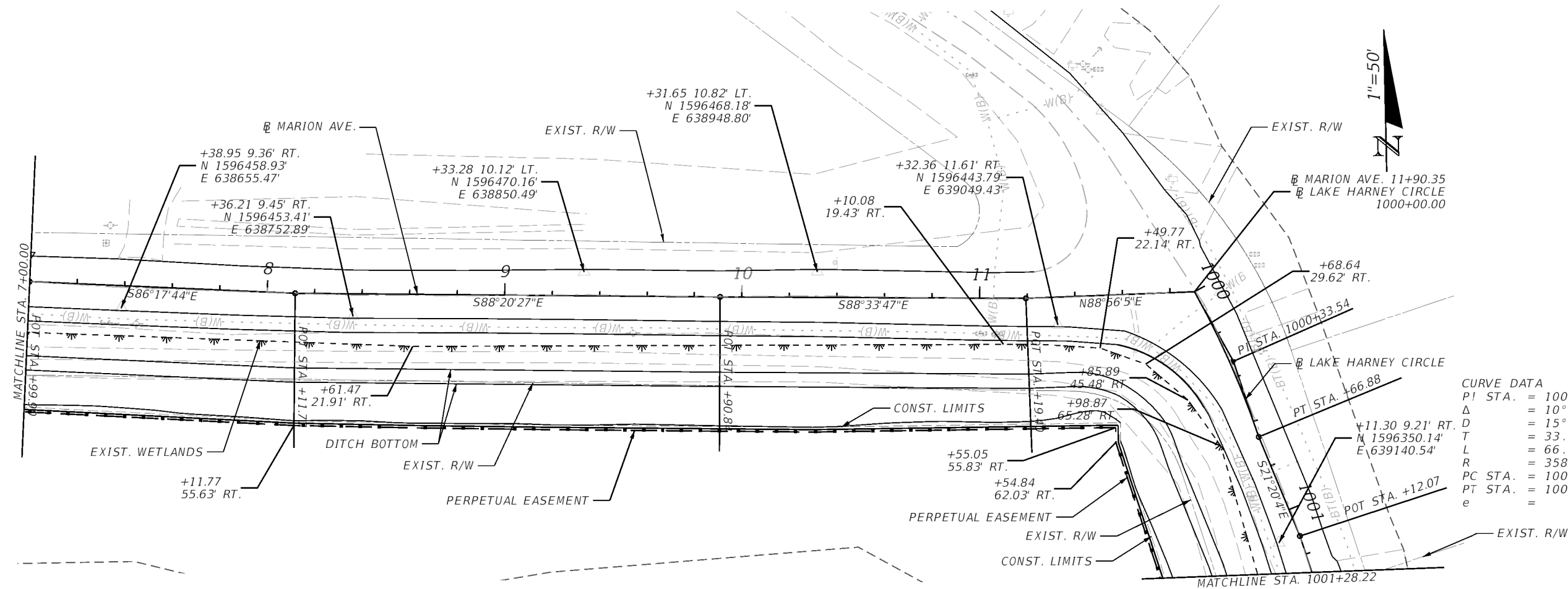
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 PT STA. = 3+50.02
 e =



REVISIONS		PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		ROADWAY PLAN-PROFILE	SHEET NO. 5
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.		
	NOT FOR CONSTRUCTION			LAKE HARNEY RD	02307092		
REECE CARINE, PE LICENSE NUMBER: 95714 JMT - JOHNSON, MIRMIRAN, & THOMPSON 400 COLONIAL CENTER PRKY, SUITE 100 LAKE MARY, FL 32746							

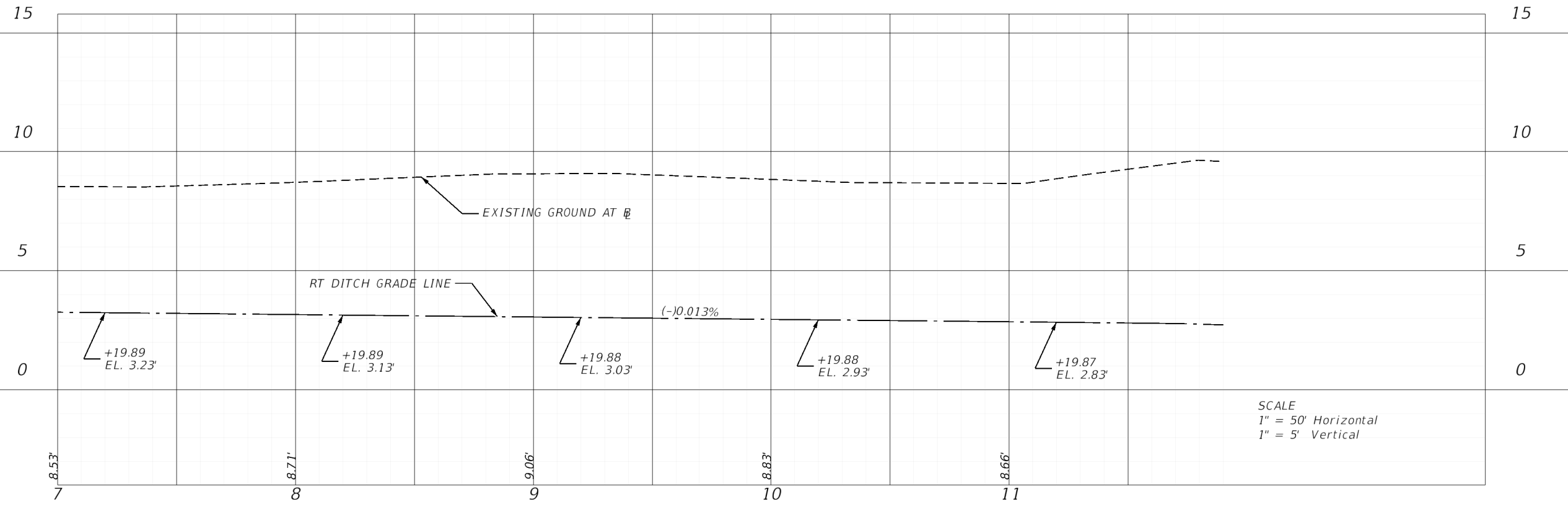
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CURVE DATA

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L	= 66.88
R	= 358.98
PC STA.	= 1000+00.00
PT STA.	= 1000+66.88
e	=



SCALE
 1" = 50' Horizontal
 1" = 5' Vertical

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REVISIONS		PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		ROADWAY PLAN-PROFILE	SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.		
	NOT FOR CONSTRUCTION			LAKE HARNEY RD	02307092		
REECE CARINE, PE LICENSE NUMBER: 95714 JMT - JOHNSON, MIRMIRAN, & THOMPSON 400 COLONIAL CENTER PRKY, SUITE 100 LAKE MARY, FL 32746							

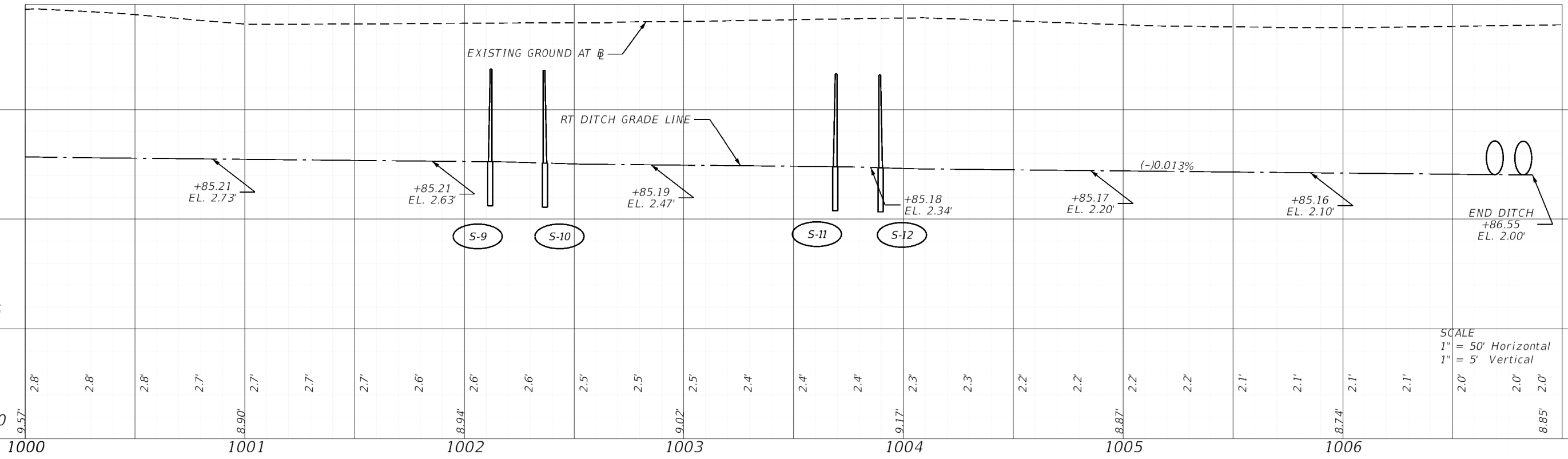
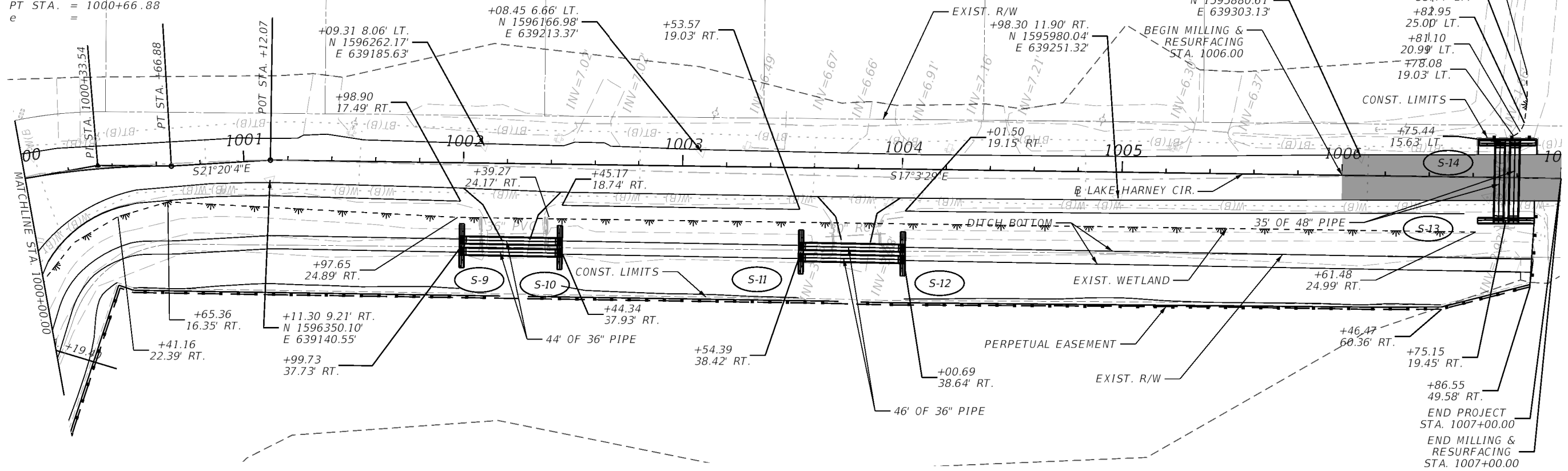
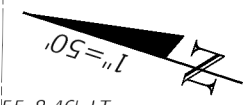
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 L = 66.88
 R = 358.98
 PC STA. = 1000+00.00
 PT STA. = 1000+66.88
 e =

WITHIN AREAS OF PIPE CONSTRUCTION
 PAVEMENT DESIGN IS AS FOLLOWS:

MILLING AND RESURFACING	NEW CONSTRUCTION
MILL EXISTING ASPHALT PAVEMENT (1" DEPTH) FRICTION COURSE FC-9.5 (1") (PG 76-22)	OPTIONAL BASE GROUP 6 FRICTION COURSE FC-9.5 (1") (PG 76-22)

LEGEND:
 MILLING AND RESURFACING



SCALE
 1" = 50' Horizontal
 1" = 5' Vertical

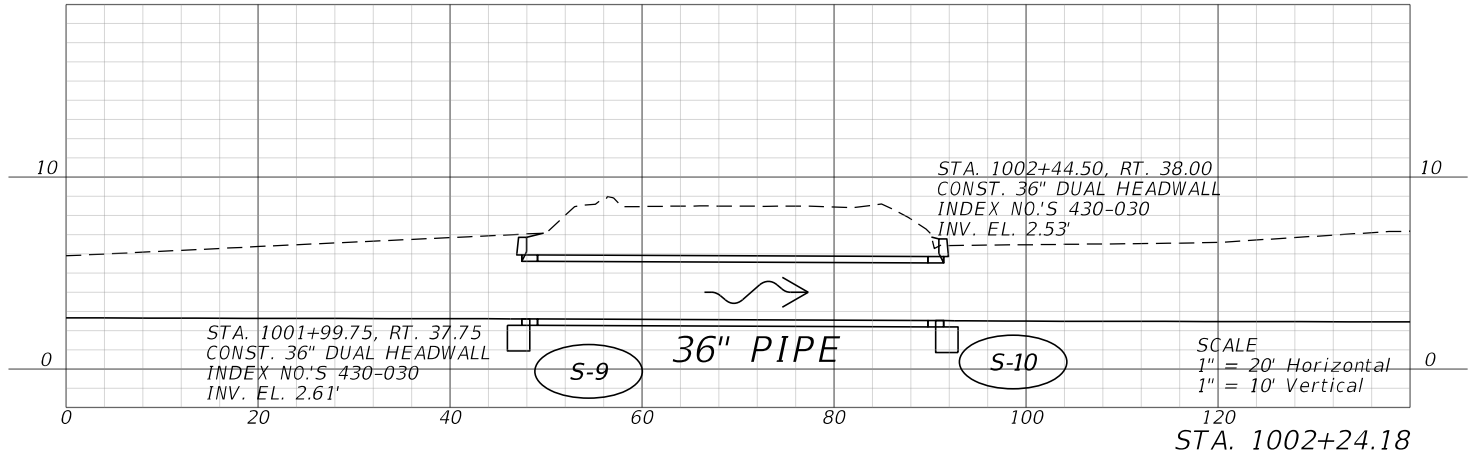
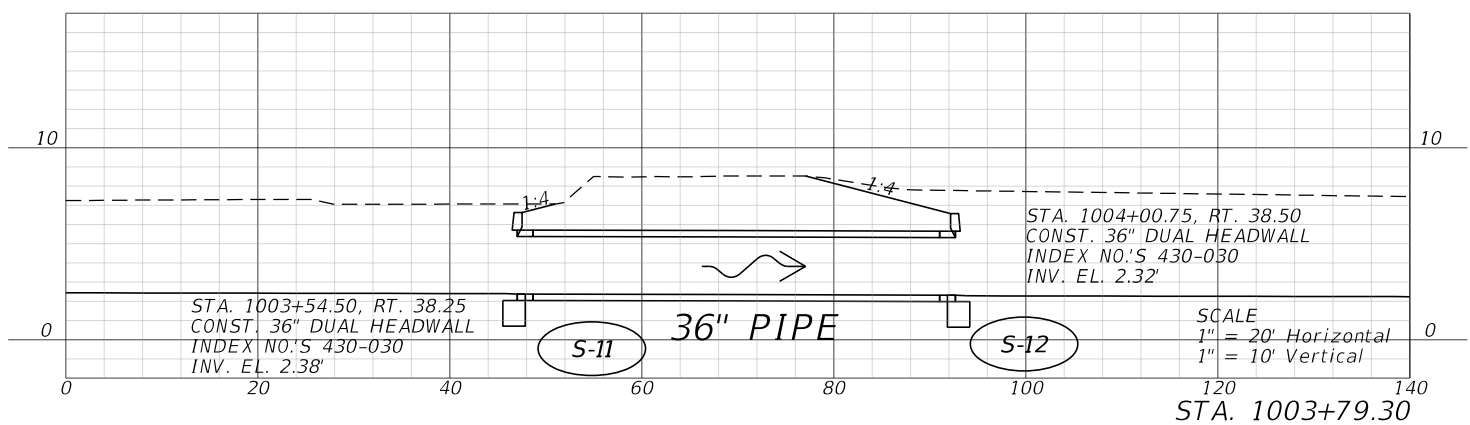
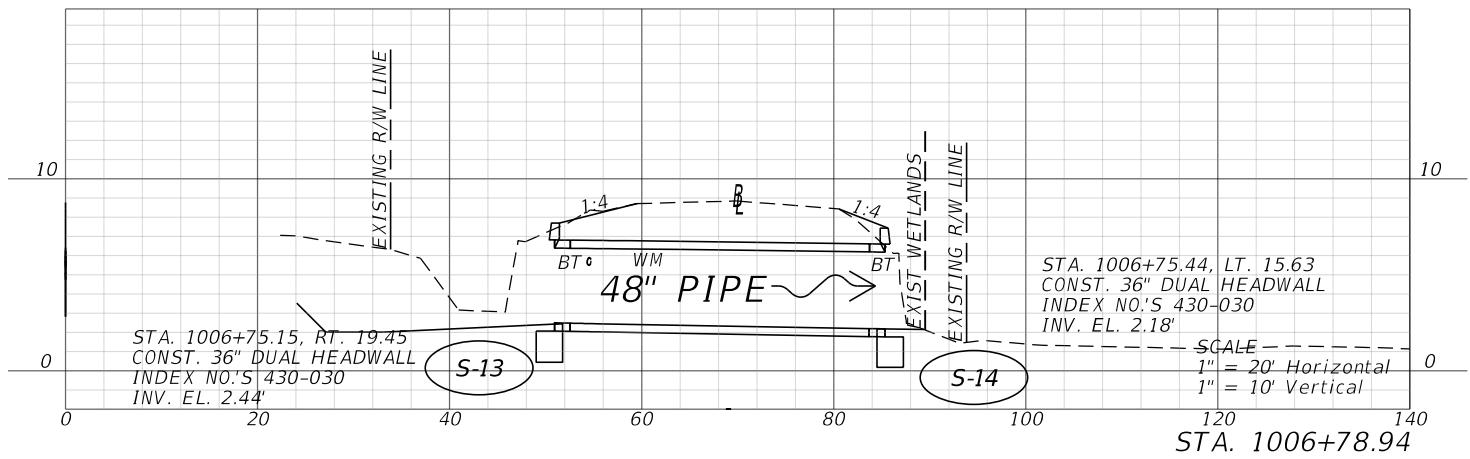
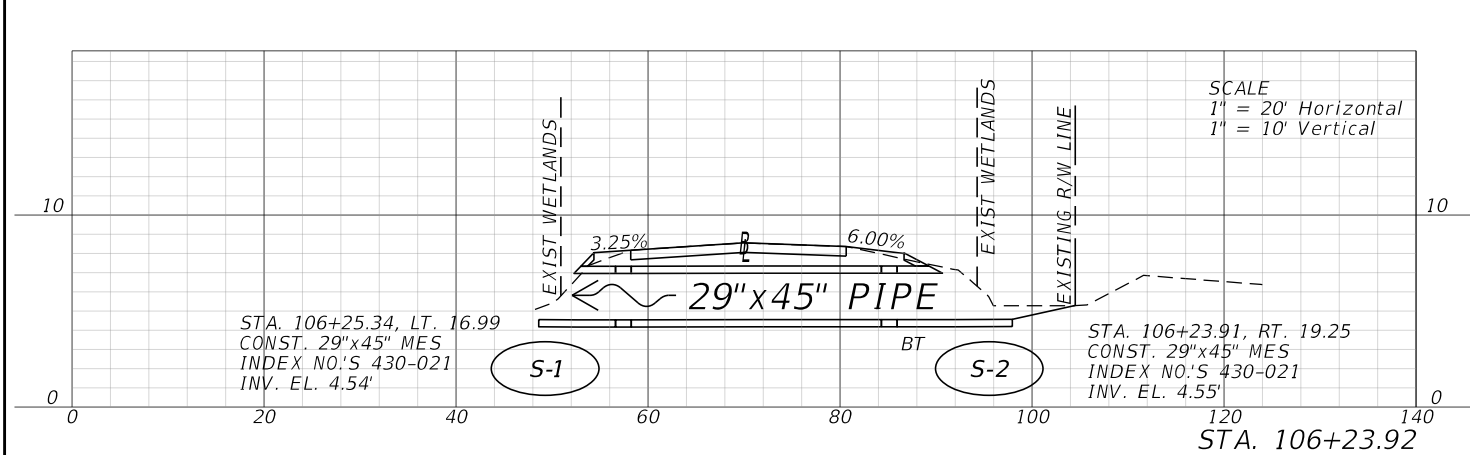
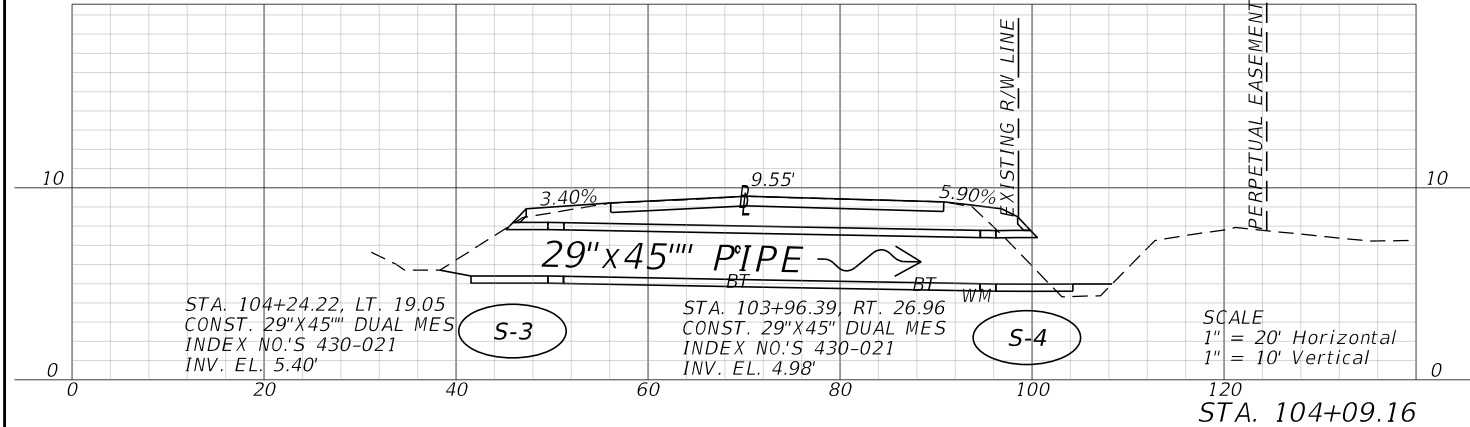
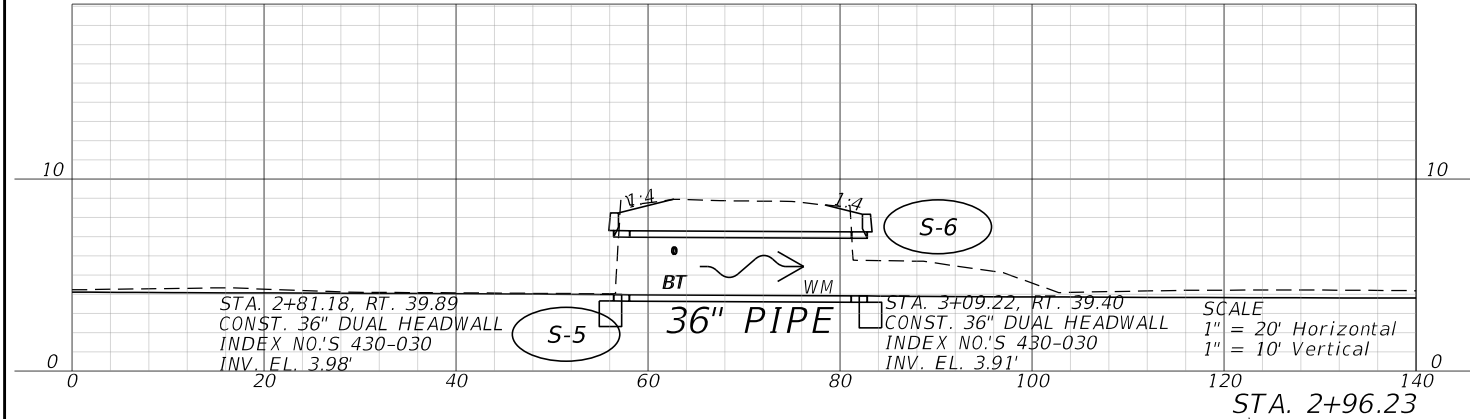
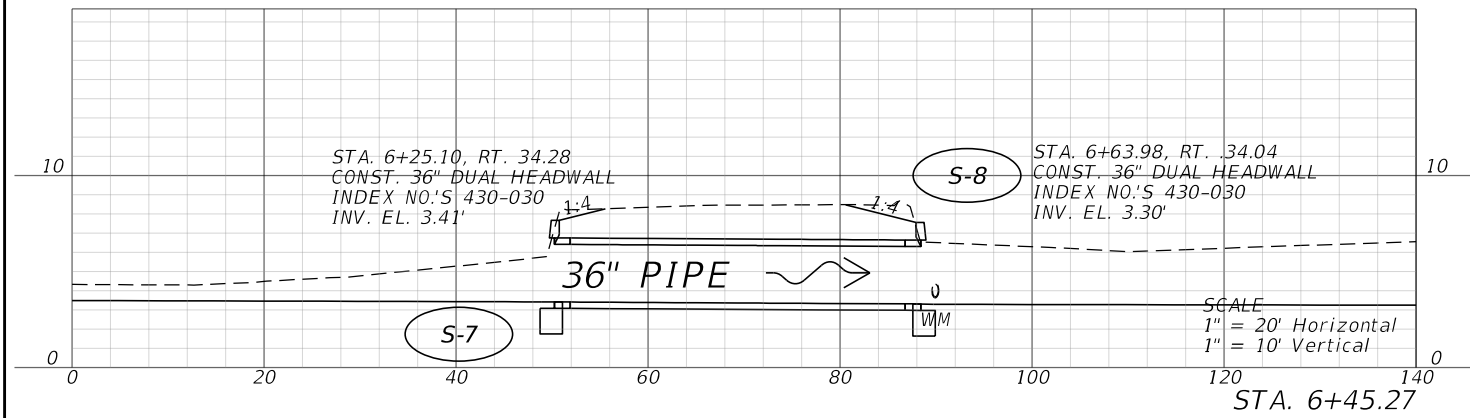
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REVISIONS		PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		ROADWAY PLAN-PROFILE	SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.		
	NOT FOR CONSTRUCTION			LAKE HARNEY RD	02307092		

REECE CARINE, PE
 LICENSE NUMBER: 95714
 JMT - JOHNSON, MIRMIRAN, & THOMPSON
 400 COLONIAL CENTER PRKY, SUITE 100
 LAKE MARY, FL 32746

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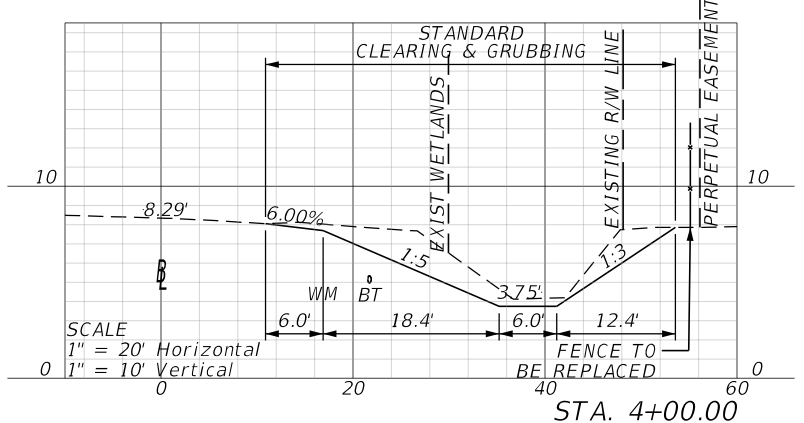
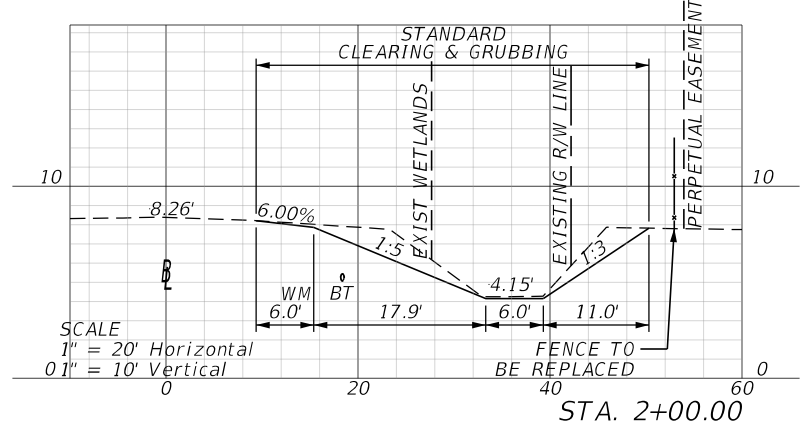
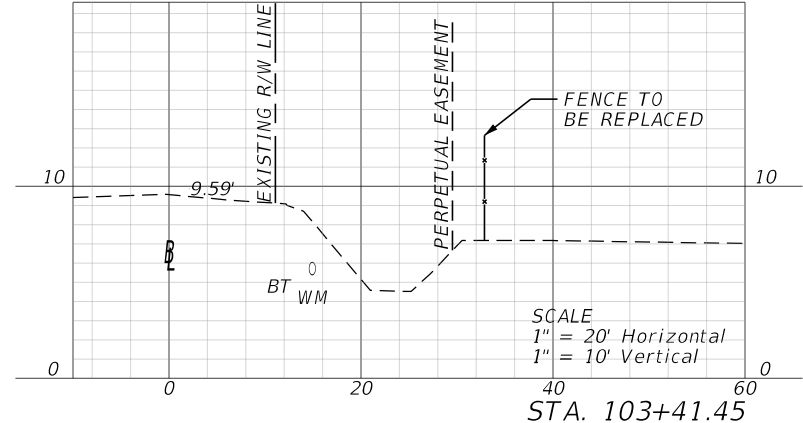
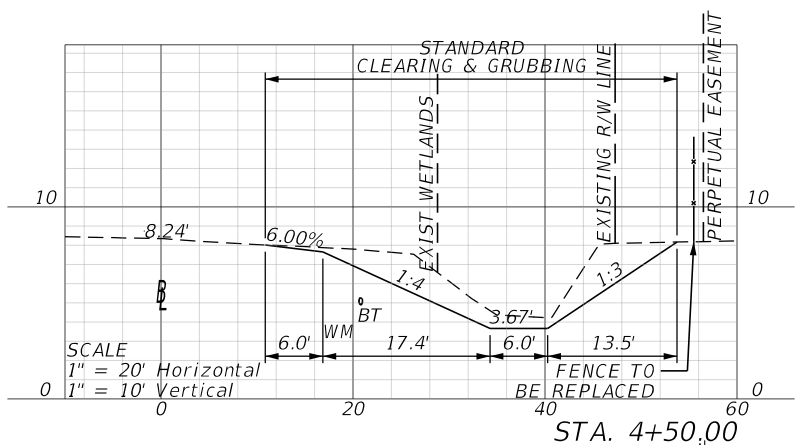
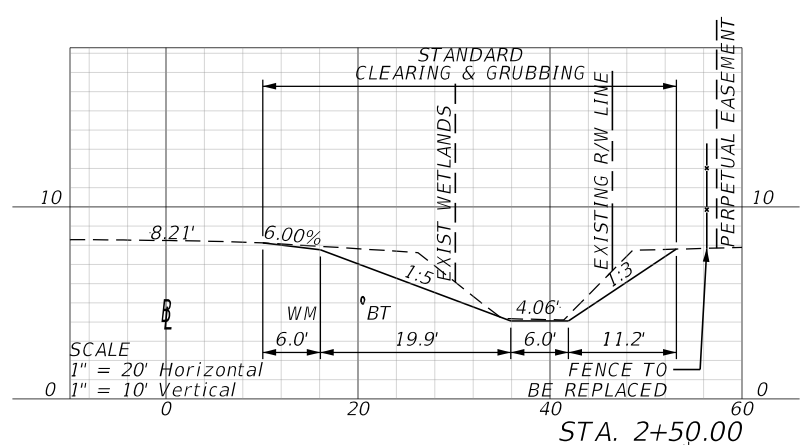
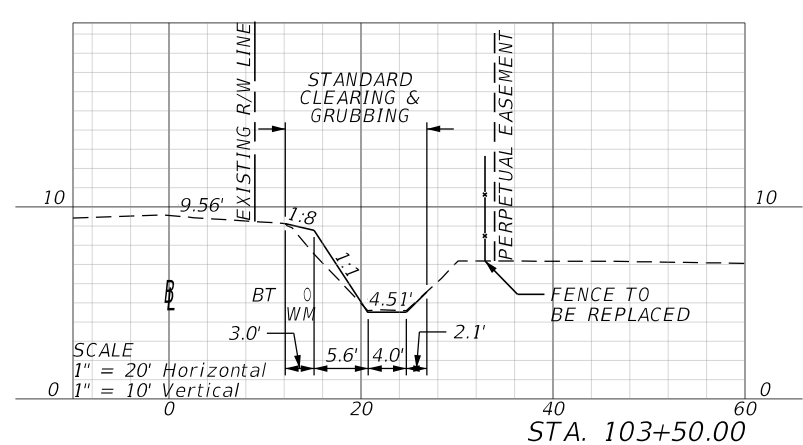
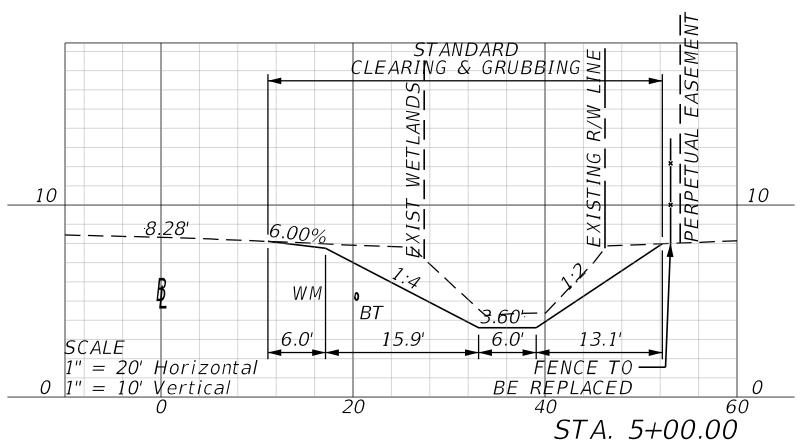
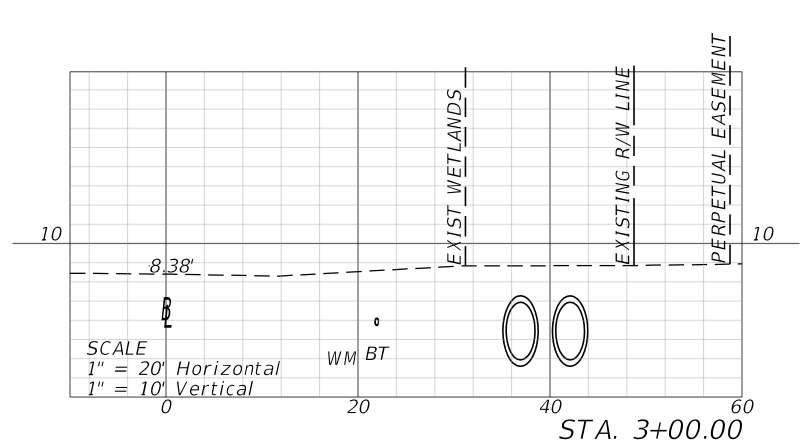
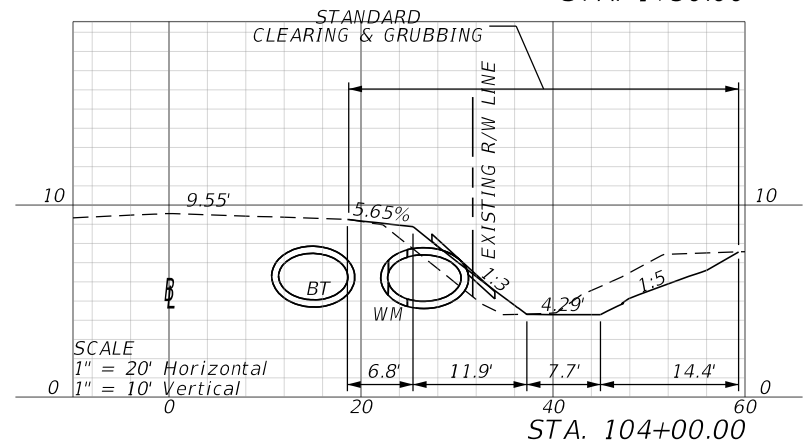
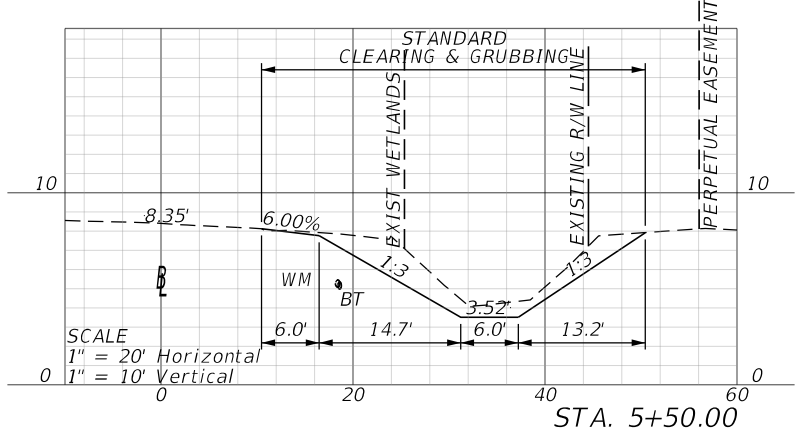
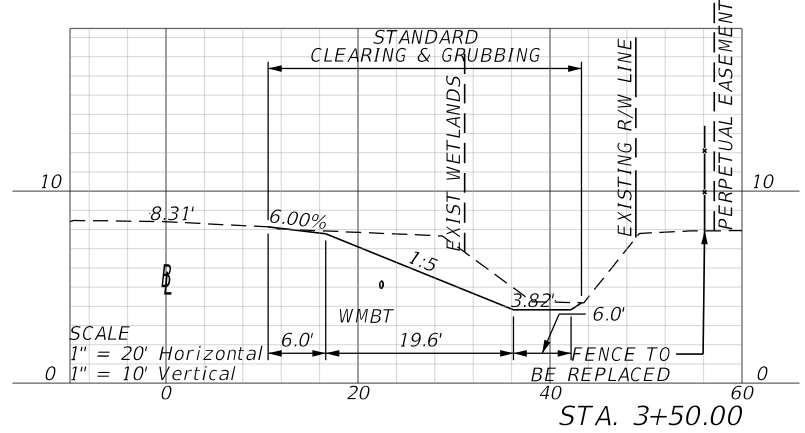
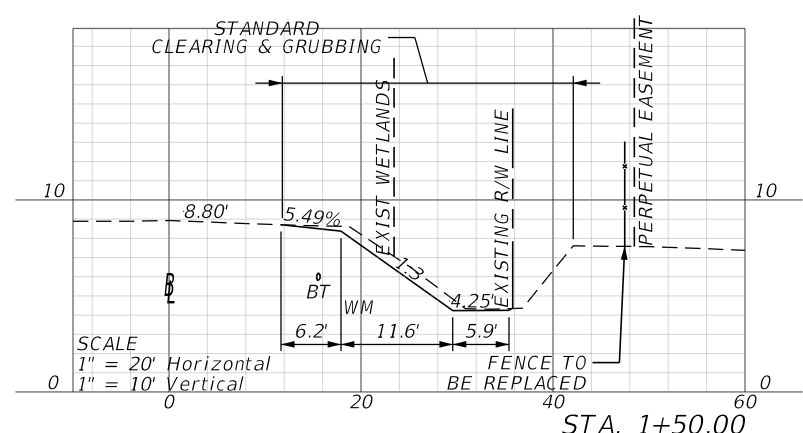
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REVISIONS		PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		DRAINAGE CROSS SECTIONS	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.		
	NOT FOR CONSTRUCTION			LAKE HARNEY RD	02307092		

REECE CARINE, PE
 LICENSE NUMBER: 95714
 JMT - JOHNSON, MIRMIRAN, & THOMPSON
 400 COLONIAL CENTER PRKY, SUITE 100
 LAKE MARY, FL 32746

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REVISIONS		PROFESSIONAL TYPE	
DATE	DESCRIPTION	DATE	DESCRIPTION
	NOT FOR CONSTRUCTION		

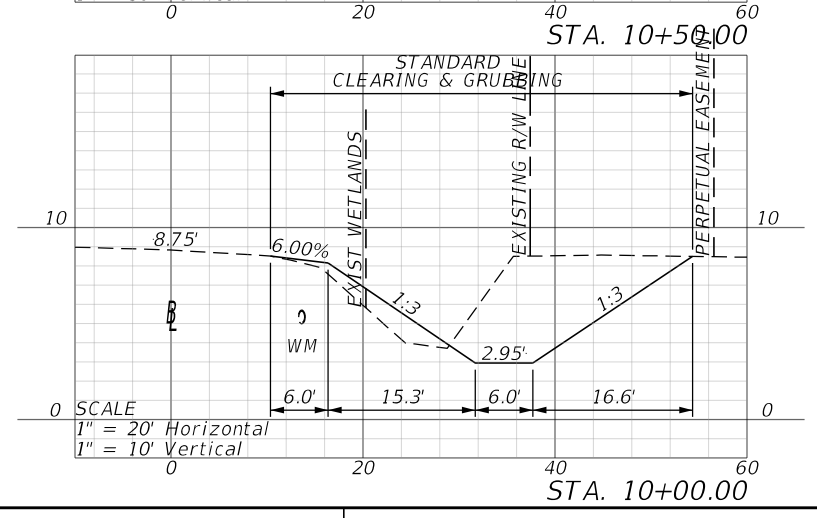
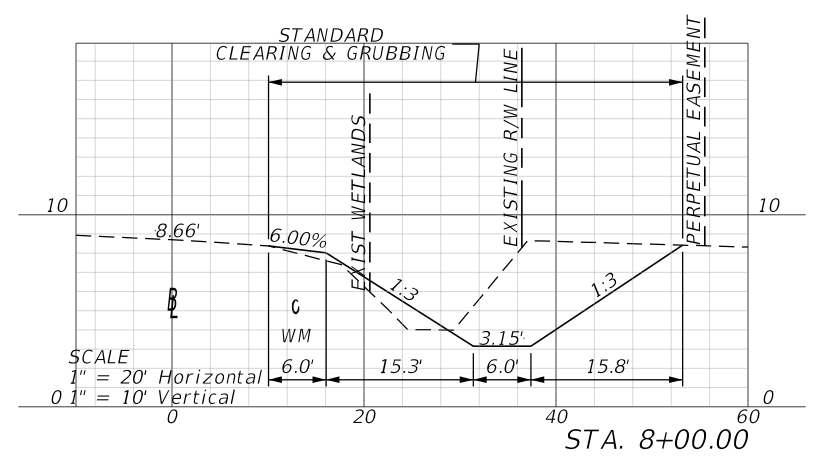
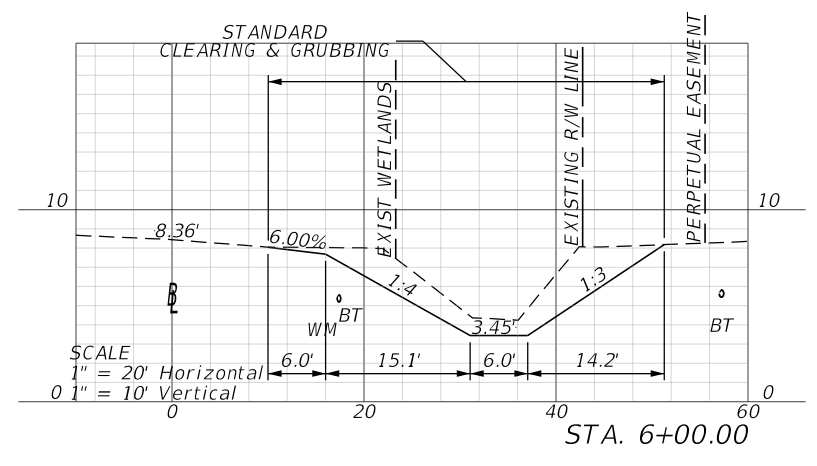
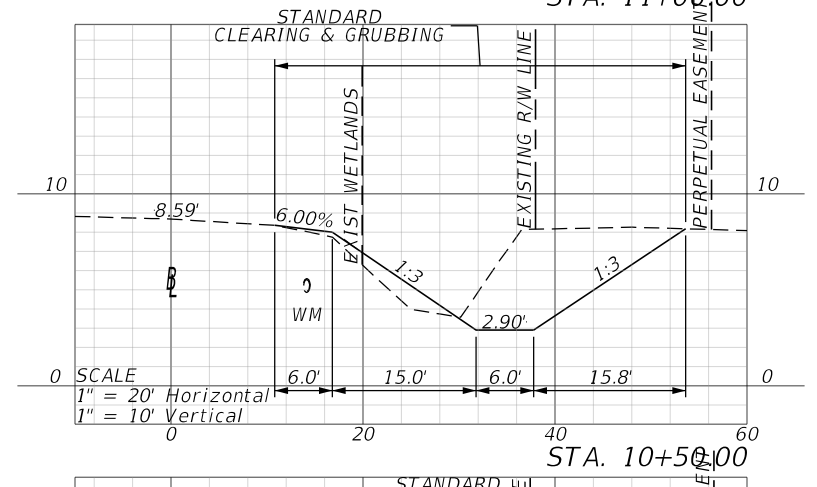
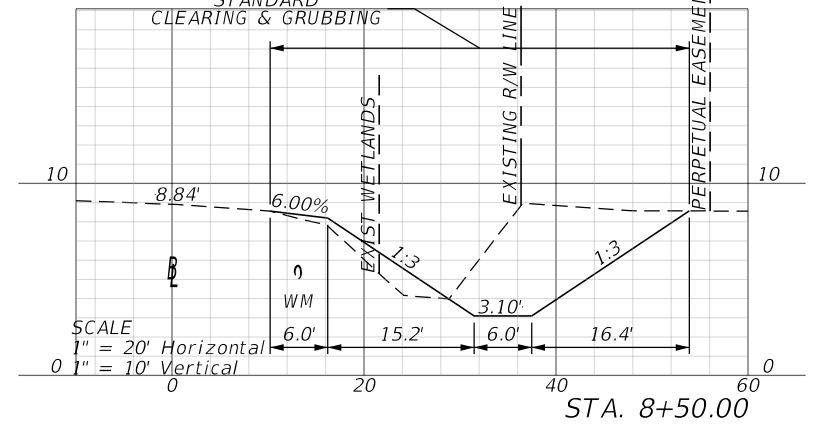
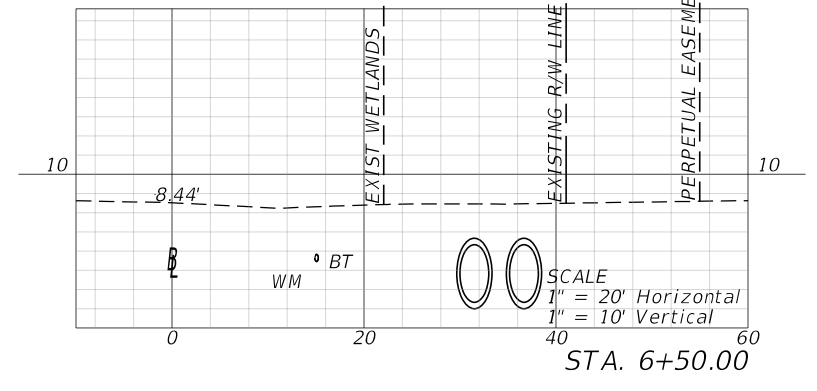
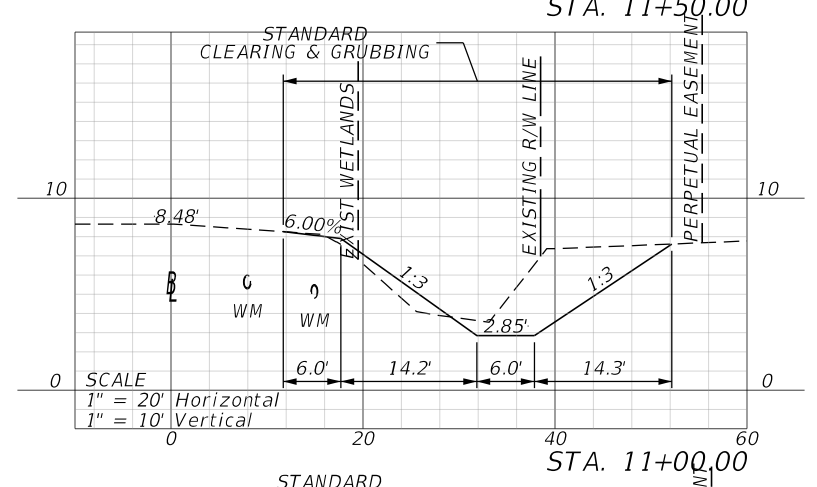
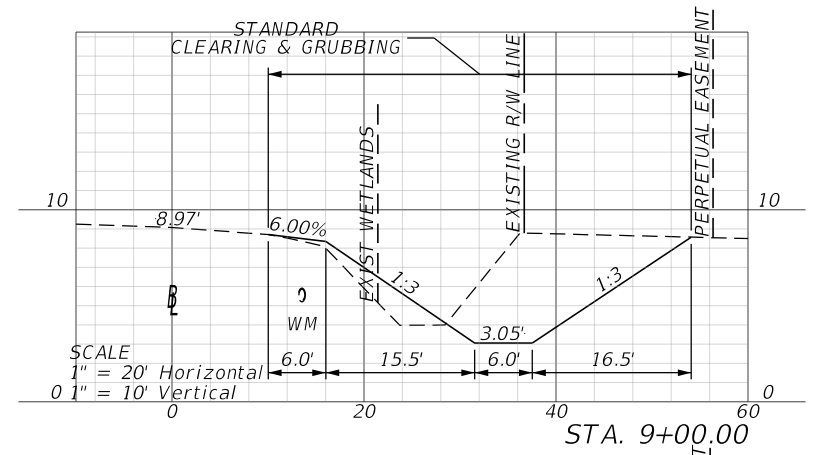
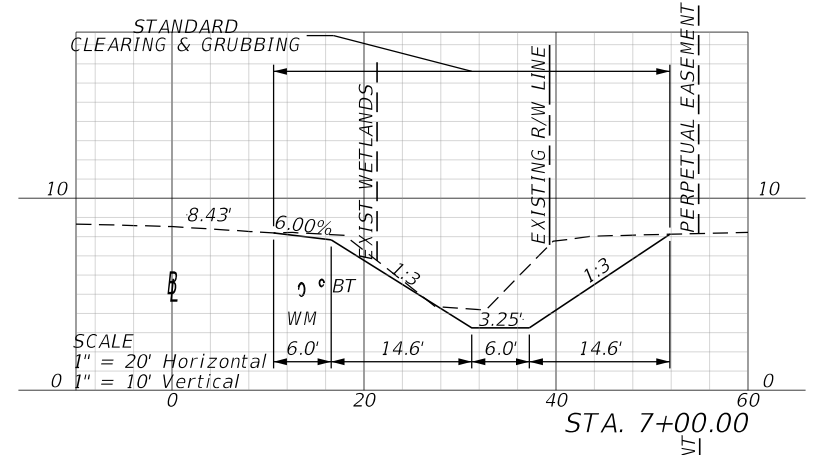
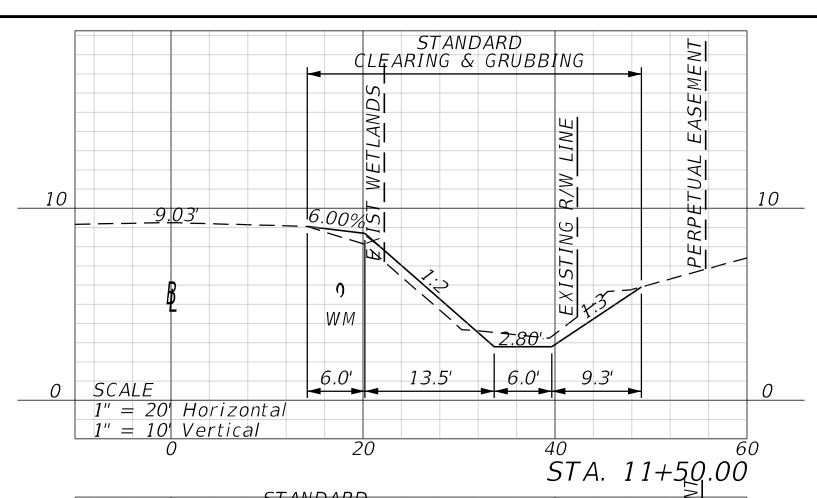
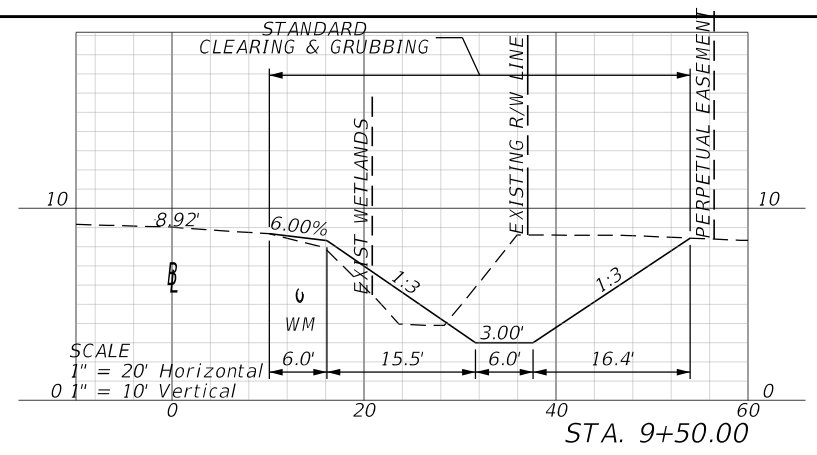
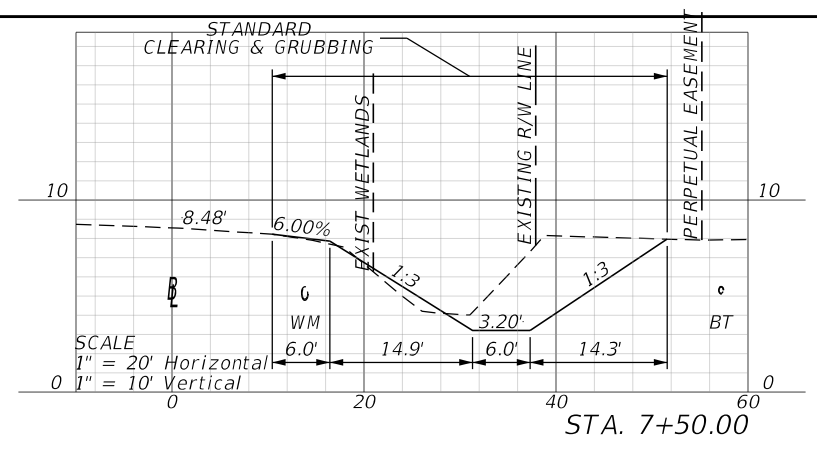
REECE CARINE, PE
LICENSE NUMBER: 95714
JMT - JOHNSON, MIRMIRAN, & THOMPSON
400 COLONIAL CENTER PRKY, SUITE 100
LAKE MARY, FL 32746

SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT	
ROAD IDENTIFICATION	COUNTY CIP NO.
LAKE HARNEY RD	02307092

ROADWAY CROSS SECTIONS	
SHEET NO. 9	

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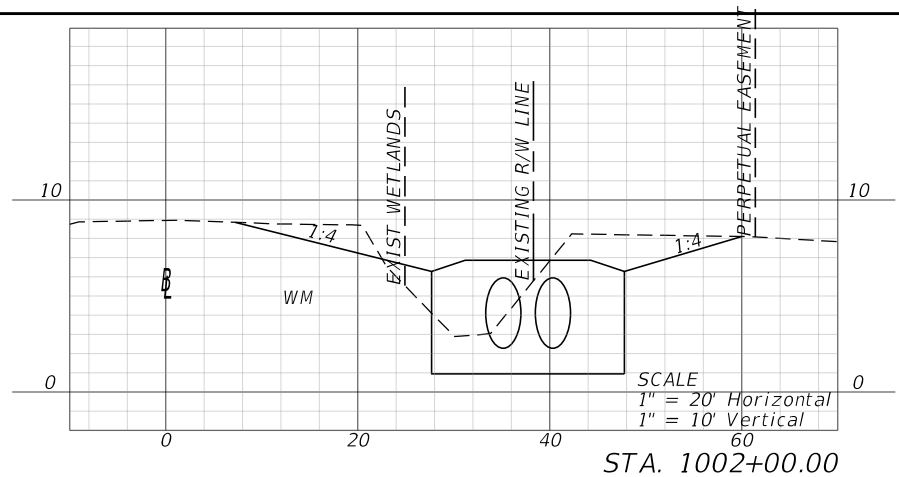


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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.		
	NOT FOR CONSTRUCTION			LAKE HARNEY RD	02307092		

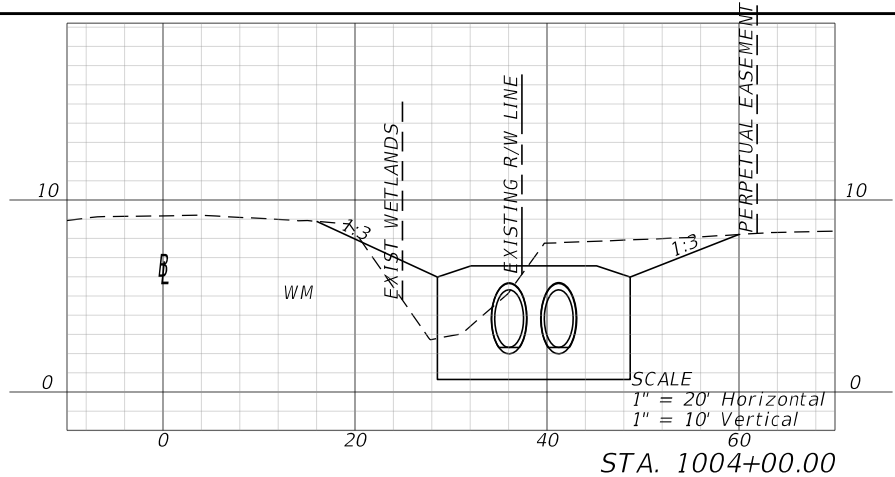
REECE CARINE, PE
 LICENSE NUMBER: 95714
 JMT - JOHNSON, MIRMIRAN, & THOMPSON
 400 COLONIAL CENTER PRKY, SUITE 100
 LAKE MARY, FL 32746

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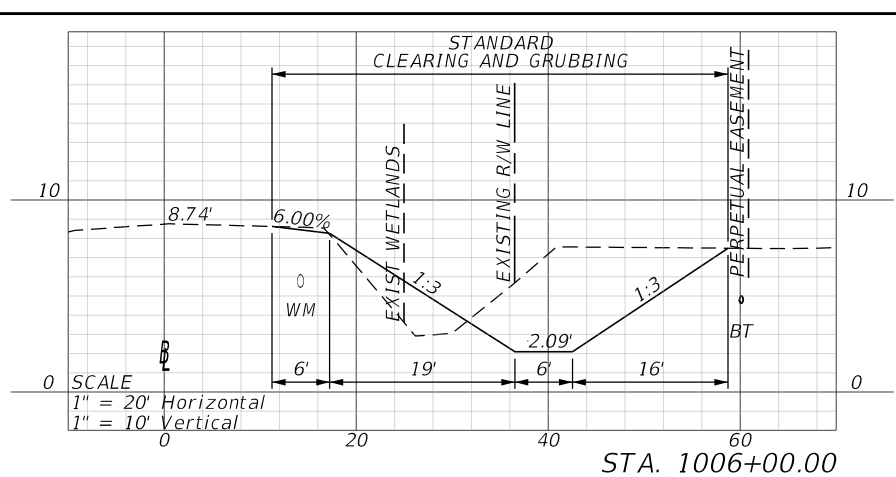
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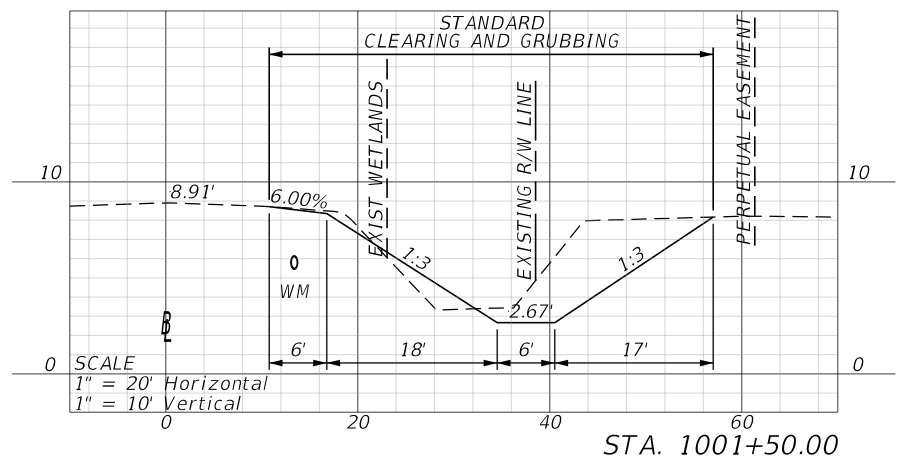
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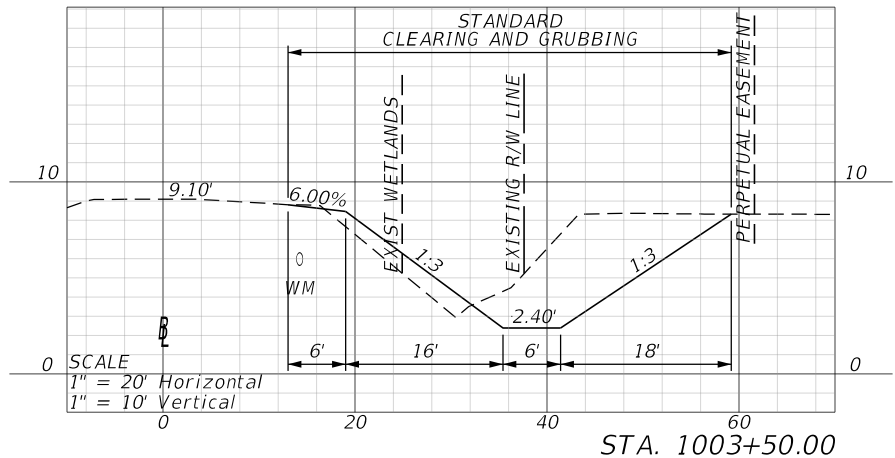
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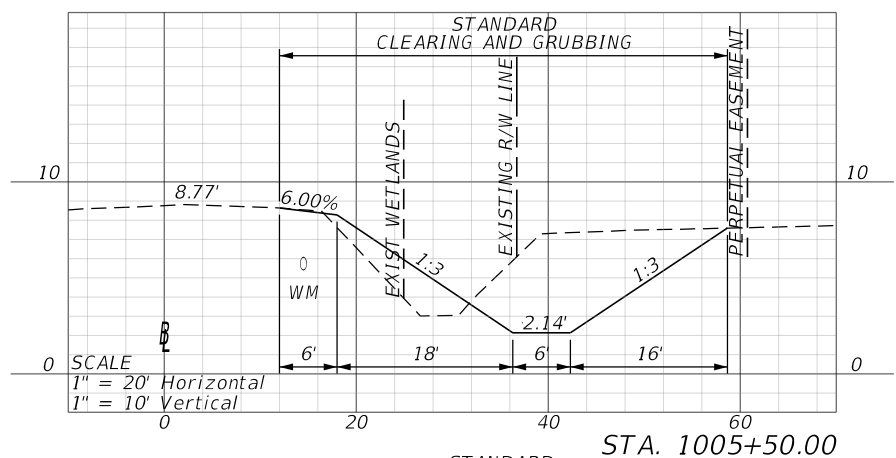
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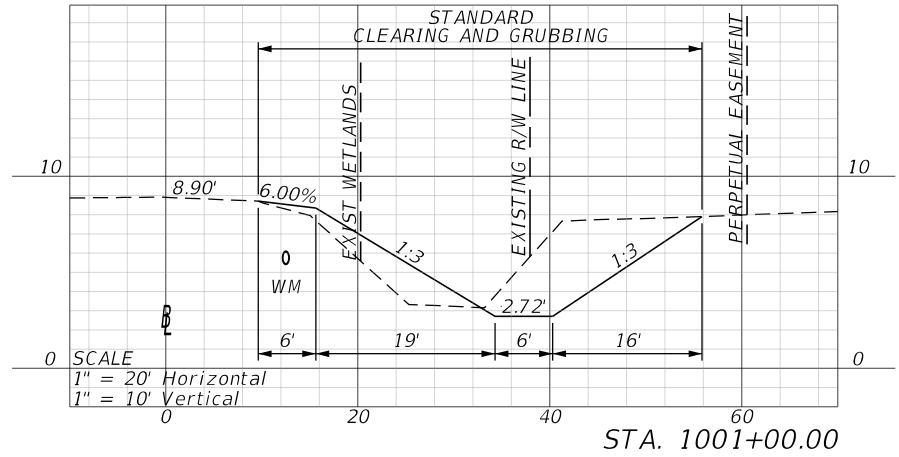
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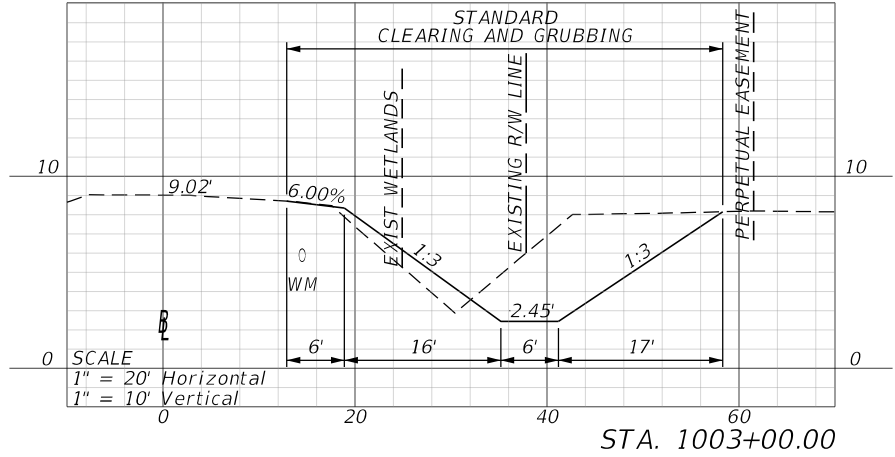
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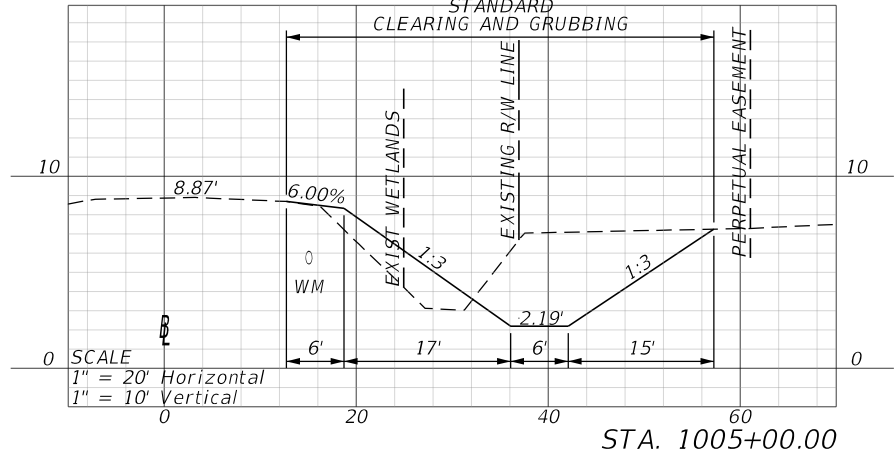
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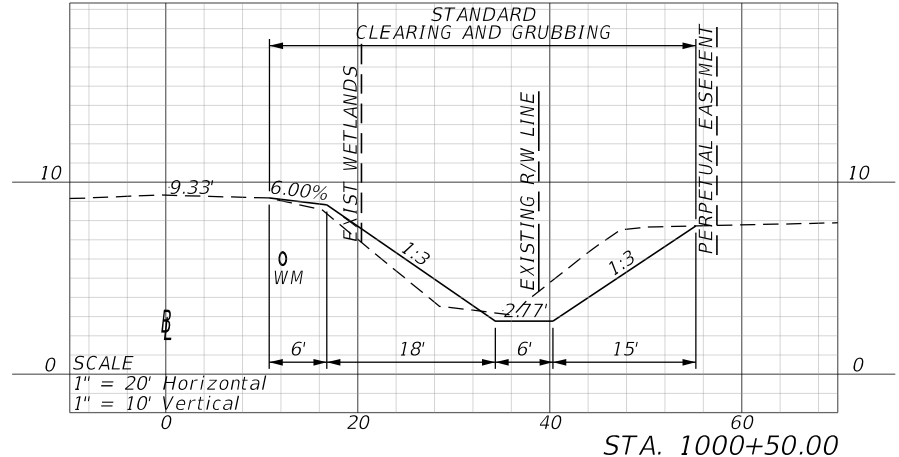
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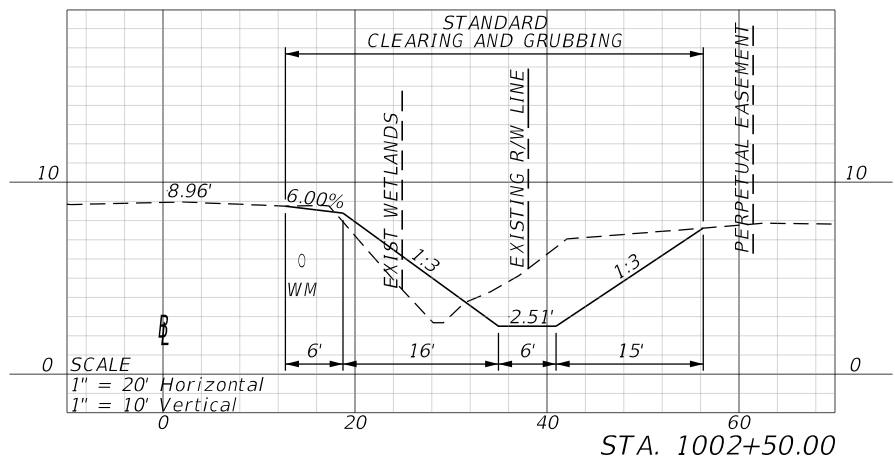
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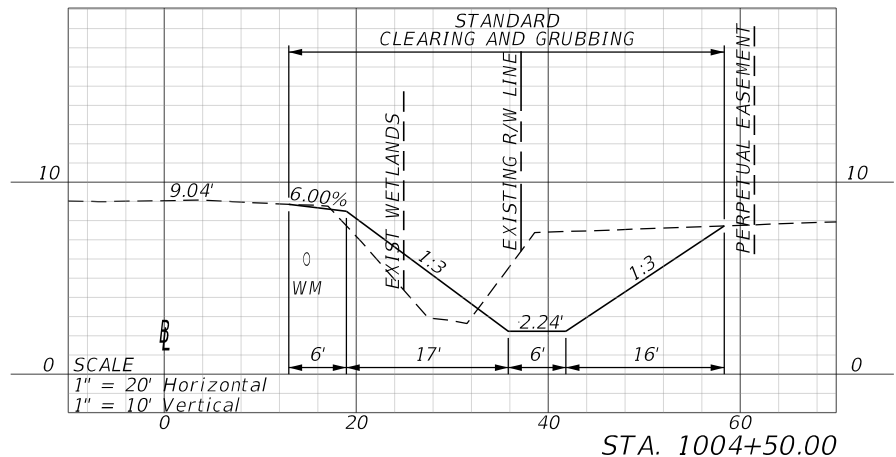
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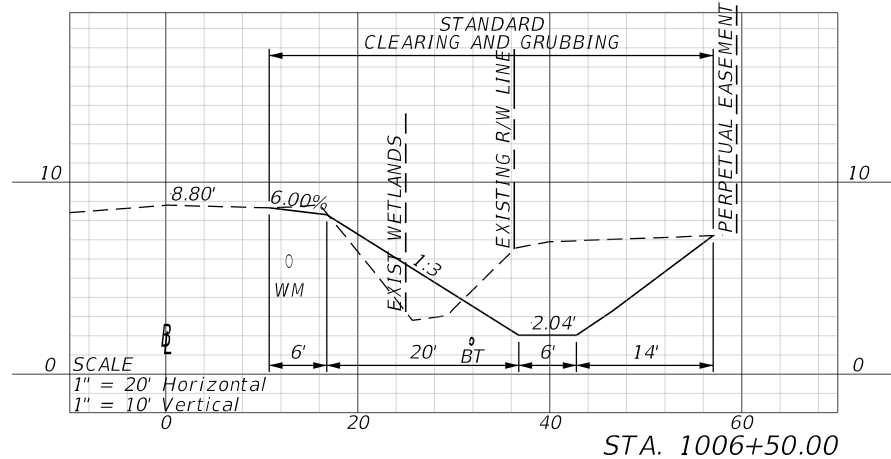
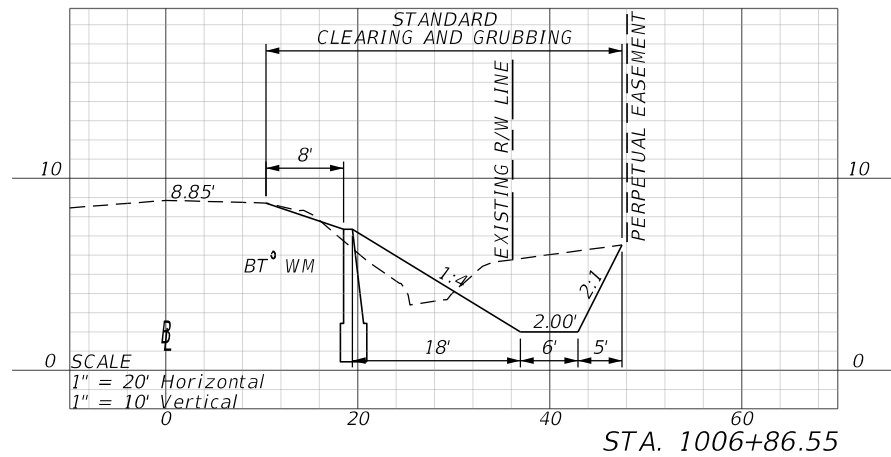
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REVISIONS		PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		ROADWAY CROSS SECTIONS	SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.		
	NOT FOR CONSTRUCTION			LAKE HARNEY RD	02307092		

REECE CARINE, PE
 LICENSE NUMBER: 95714
 JMT - JOHNSON, MIRMIRAN, & THOMPSON
 400 COLONIAL CENTER PRKY, SUITE 100
 LAKE MARY, FL 32746

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REVISIONS		PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		ROADWAY CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD IDENTIFICATION	COUNTY CIP NO.		12
	NOT FOR CONSTRUCTION			LAKE HARNEY RD	02307092		

REECE CARINE, PE
 LICENSE NUMBER: 95714
 JMT - JOHNSON, MIRMIRAN, & THOMPSON
 400 COLONIAL CENTER PRKY, SUITE 100
 LAKE MARY, FL 32746

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EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE 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 MY 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 LBS PER ACRE.
6. THE SEEDING 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 GRASS 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 TH ELIFE 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 GRASES OR VEGETATION ADN RETENTION/DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL 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 AREAS OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY JURISDICATION 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 LIN TO PROTECT THESE AREAS FROM ENCROACHMENT FROM CONSTRUCTION ACTIVITIES.
15. ALL FILL, EMBANKMENT , AND GRADED AREAS SHALL BE PROTEXTED AGAINST EROSION BY METHODS STATED IN "SECTION 104," FDOT STANDARDS 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 EROSOIN AND WATER POLLUTION.

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REVISIONS				PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		STORM WATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD IDENTIFICATION	COUNTY CIP NO.		13
	NOT FOR CONTRUCTION			REECE CARINE, PE LICENSE NUMBER: 95714 JMT - JOHNSON, MIRMIRAN, & THOMPSON 400 COLONIAL CENTER PRKY, SUITE 100 LAKE MARY, FL 32746		LAKE HARNEY RD	02307092		

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Summary of Lump Sum Items								
Pay Item Number	Pay Item Description	Unit of Measure			Total Quantity		Design Notes	Construction Remarks
			P	F	P	F		
0101- 1	MOBILIZATION	LS	1		1			
0102- 1	MAINTENANCE OF TRAFFIC	LS	1		1			

Summary of Erosion Control and Sediment Control Devices													
Pay Item Number	Pay Item Description	Unit of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
0104- 12	STAKED TURBIDITY BARRIER	LF	31		1898		REST HAVEN RD	102+94.71	107+25.00	RT			
			53								LT		
			1092				MARION AVE	1+00.00	11+90.35	RT			
			0			LT							
			682				LAKE HARNEY CIR	1000+00.00	1007+00.00	RT			
			40			LT							

Summary of Clearing Grubbing and Removal Items																		
Pay Item Number	Pay Item Description	Unit of Measure	Length (FT)	Width (FT)	Quantity		Total Quantity		Secondary Quantity			Location					Design Notes	Construction Remarks
					P	F	P	F	Unit	P	F	Alignment	Begin Station	End Station	Side	Element ID		
0110- 1- 1	CLEARING AND GRUBBING	LS				1.86		1.86				REST HAVEN RD	102+94.71	107+25.00	RT			
									0.13							LT		
												MARION AVE	1+00.00	11+90.35	RT			
								0.94			LT							
												LAKE HARNEY CIR	1000+00.00	1007+00.00	RT			
								0.64			LT							
0110- 4- 10	REMOVAL OF EXISTING CONCRETE	SY				1.5		16.0				REST HAVEN RD	102+94.71	107+25.00	RT			
																LT		
						6.0						MARION AVE	1+00.00	11+90.35	RT			
											LT							
						6.0						LAKE HARNEY CIR	1000+00.00	1007+00.00	RT			
											LT							

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REVISIONS																										
DATE	DESCRIPTION																									
	NOT FOR CONSTRUCTION																									
PROFESSIONAL TYPE																										
REECE CARINE, PE LICENSE NUMBER: 95714 JMT - JOHNSON, MIRMIRAN, & THOMPSON 400 COLONIAL CENTER PRKY, SUITE 100 LAKE MARY, FL 32746																										
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ROAD IDENTIFICATION	COUNTY CIP NO.																									
LAKE HARNEY RD	02307092																									
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50-1																										

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Summary of Mailboxes

Pay Item Number	Pay Item Description	Unit of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
110-7-1	MAILBOX, F&I SINGLE	EA	3			4	REST HAVEN RD	102+94.71	107+25.00	RT			
										LT			
			1				LAKE HARNEY CIR	1000+00.00	1007+00.00	RT			
										LT			

Summary of Earthwork

Pay Item Number	Pay Item Description	Unit of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
0120 1	REGULAR EXCAVATION	CY	3314		3314		-	-	-	RT/LT			
0120 6	EMBANKMENT	CY	552		552		-	-	-	RT/LT			

Summary of Pavement

Pay Item Number	Pay Item Description	Unit of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Location Description	Side		
285706	OPTIONAL BASE, BASE GROUP 06	SY	29.7		94		REST HAVEN RD	102+94.71	107+25.00		RT		
			45								LT		
			9.65				LAKE HARNEY CIR	1000+00.00	1007+00.00		RT		
			9.65								LT		
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B`	TN	408		1013		REST HAVEN RD	102+94.71	107+25.00		RT		
			365								LT		
			120				LAKE HARNEY CIR	1000+00.00	1007+00.00		RT		
			120										
0337 7 80	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-9.5, PG 76-22	TN	22.44		55.72		REST HAVEN RD	102+94.71	107+25.00		RT		
			20.08								LT		
			6.6				LAKE HARNEY CIR	1000+00.00	1007+00.00		RT		
			6.6								LT		

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<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td>NOT FOR CONSTRUCTION</td> </tr> </tbody> </table>		REVISIONS		DATE	DESCRIPTION		NOT FOR CONSTRUCTION	<table border="1"> <thead> <tr> <th colspan="2">PROFESSIONAL TYPE</th> </tr> </thead> <tbody> <tr> <td colspan="2">REECE CARINE, PE LICENSE NUMBER: 95714 JMT - JOHNSON, MIRMIRAN, & THOMPSON 400 COLONIAL CENTER PRKY, SUITE 100 LAKE MARY, FL 32746</td> </tr> </tbody> </table>		PROFESSIONAL TYPE		REECE CARINE, PE LICENSE NUMBER: 95714 JMT - JOHNSON, MIRMIRAN, & THOMPSON 400 COLONIAL CENTER PRKY, SUITE 100 LAKE MARY, FL 32746		<table border="1"> <thead> <tr> <th colspan="2">SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT</th> </tr> <tr> <th>ROAD IDENTIFICATION</th> <th>COUNTY CIP NO.</th> </tr> </thead> <tbody> <tr> <td>LAKE HARNEY RD</td> <td>02307092</td> </tr> </tbody> </table>		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		ROAD IDENTIFICATION	COUNTY CIP NO.	LAKE HARNEY RD	02307092	<p>SUMMARY OF QUANTITIES</p>		<table border="1"> <tr> <td>SHEET NO.</td> </tr> <tr> <td>SQ-2</td> </tr> </table>	SHEET NO.	SQ-2
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QUANTITY	STRUCTURE NUMBER	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN (LF)						MANHOLE (EA) TYPE P-8	STRAIGHT CONCRETE ENDWALL (EA) 36"	STRAIGHT CONCRETE ENDWALL (EA) 48"	MITERED END SECTION (EA) 29" X45"	REMARKS
						PLASTIC			CONC.		OTHER					
						18"	24"	30"	36"	48"	29" X45"					
P	S-1	106+25.34	LT	MITERED END SECTION - PIPE	1								1			
F	S-2	106+23.91	RT	MITERED END SECTION - PIPE	1								1			
P	S-3	104+24.22	LT	MITERED END SECTION - PIPE	2								2			
F																
P	S-4	103+96.39	RT	MITERED END SECTION - PIPE	2								2			
F																
P	S-5	2+84.84	RT	DUAL HEADWALL - PIPE	2				27		1					
F																
P	S-6	3+07.65	RT	DUAL HEADWALL - PIPE	2				27		1					
F																
P	S-7	6+25.81	RT	DUAL HEADWALL - PIPE	2				38		1					
F																
P	S-8	6+62.17	RT	DUAL HEADWALL - PIPE	2				38		1					
F																
P	S-9	1002+10.90	RT	DUAL HEADWALL - PIPE	2				45		1					
F																
P	S-10	1002+37.46	RT	DUAL HEADWALL - PIPE	2				45		1					
F																
P	S-11	1003+68.15	RT	DUAL HEADWALL - PIPE	2				46		1					
F																
P	S-12	1003+90	RT	DUAL HEADWALL - PIPE	2				46		1					
F																
P	S-13	1006+75.16	RT	DUAL HEADWALL - PIPE	2				35			1				
F																
P	S-14	1006+75.44	RT	DUAL HEADWALL - PIPE	2				35			1				
F																
TOTAL						0	0	0	312	70	138	0	8	2	6	

Summary of Fencing

Pay Item Number	Pay Item Description	Unit of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
550-10-410	FENCING, WOOD FENCE, 5.0'-6.0"	LF	428			428	REST HAVEN RD	102+94.71	107+25.00	RT			
										LT			

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DATE		REVISIONS		PROFESSIONAL TYPE		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT		SUMMARY OF QUANTITIES	SHEET NO.
DESCRIPTION		DATE		DESCRIPTION		ROAD IDENTIFICATION			COUNTY CIP NO.
NOT FOR CONTRUCTION				REECE CARINE, PE LICENSE NUMBER: 95714 JMT - JOHNSON, MIRMIRAN, & THOMPSON 400 COLONIAL CENTER PRKY, SUITE 100 LAKE MARY, FL 32746		LAKE HARNEY RD			02307092
									50-3

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Summary of Performance Turf															
Pay Item Number	Pay Item Description	Unit of Measure	Length (FT)	Width (FT)	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
					P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
0570- 1- 2	PERFORMANCE TURF, SOD	SY		175				7839		REST HAVEN RD	102+94.71	107+25.00	RT		
				217									LT		
				4526						MARION AVE	1+00.00	11+90.35	RT		
													LT		
				2921						LAKE HARNEY CIR	1000+00.00	1007+00.00	RT		
													LT		

Summary of Signing and Pavement Marking															
Pay Item Number	Pay Item Description	Unit of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks		
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID				
0700 1 50	SINGLE POST SIGN, RELOCATE	EA			3					REST HAVEN RD	102+94.71	107+25.00	RT		
													LT		
					2					MARION AVE	1+00.00	11+90.35	RT		
													LT		
					1					LAKE HARNEY CIR	1000+00.00	1007+00.00	RT		
													LT		

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REVISIONS				PROFESSIONAL TYPE				SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT				SUMMARY OF QUANTITIES	SHEET NO.
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	NOT FOR CONTRUCTION							LAKE HARNEY RD		02307092			

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