

COMPONENTS OF CONTRACT PLANS SET

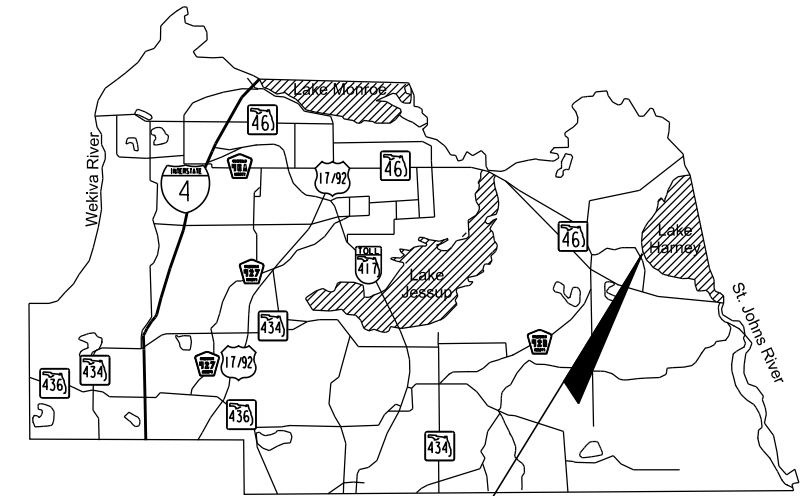
DRAINAGE IMPROVEMENT PLANS

SEMINOLE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS



WHITCOMB DRIVE DRAINAGE IMPROVEMENTS
CIP NO. 02107099



PROJECT LOCATION

INDEX OF DRAINAGE IMPROVEMENT PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4-7	DRAINAGE MAPS
8-9	SUMMARY OF DRAINAGE STRUCTURES
10-11	TYPICAL SECTIONS
12-16	SUMMARY OF QUANTITIES
17	PROJECT LAYOUT
18	GENERAL NOTES
19-28	PLAN SHEETS
29-39	PROFILE SHEETS
40-43	DRAINAGE STRUCTURE DETAILS
44-45	OUTFALL PLAN SHEETS
46-47	OUTFALL PROFILES
48-52	OUTFALL CROSS SECTIONS
53	ROADWAY BORING RESULTS
54-90	CROSS SECTIONS
91-103	DRIVEWAY CROSS SECTIONS
104-108	STORMWATER POLLUTION PREVENTION PLAN
109-110	TRAFFIC CONTROL DETAIL SHEETS
III	SIGNING AND PAVEMENT MARKINGS DETAIL

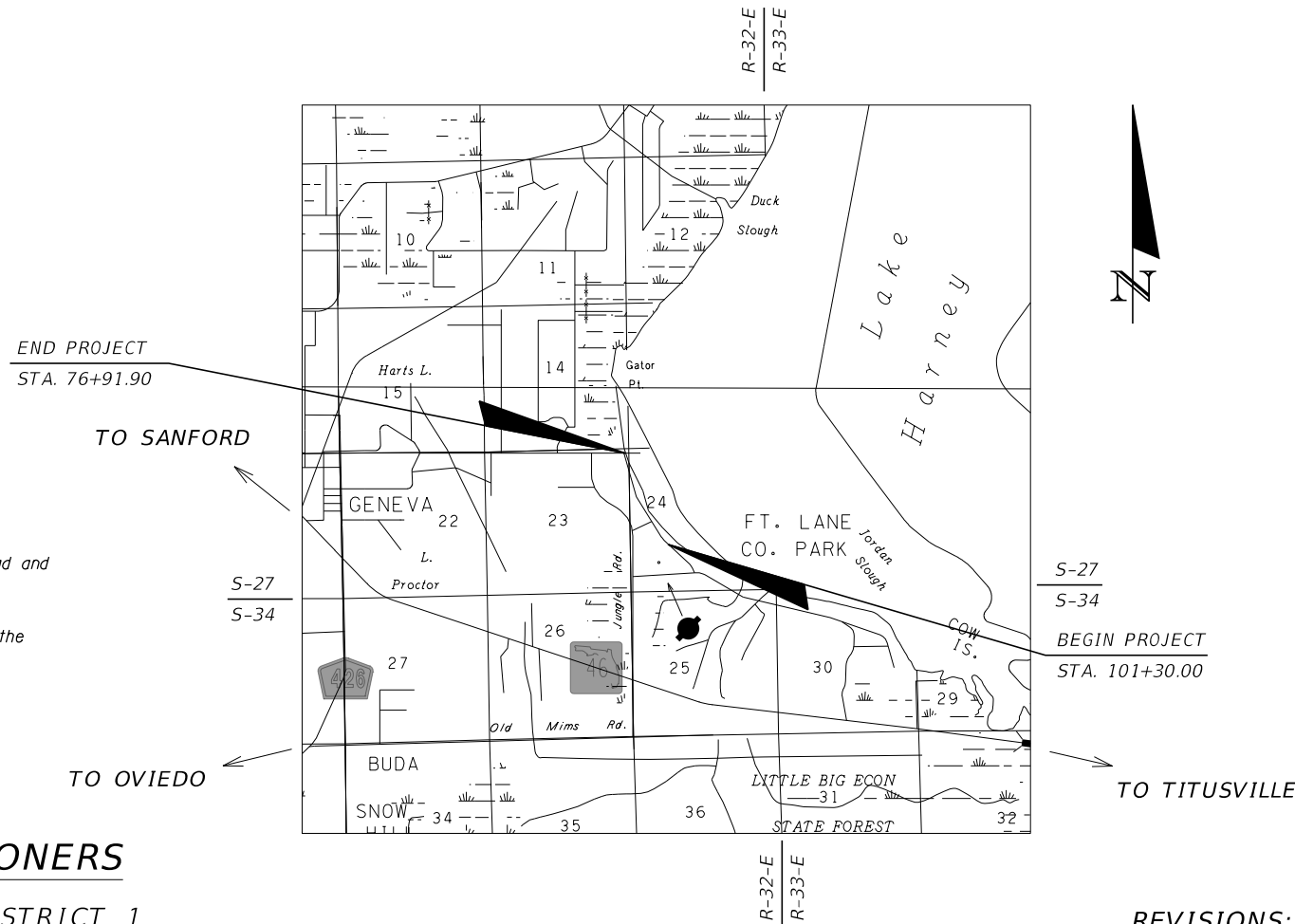
GOVERNING STANDARDS PLANS:

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>



90% SUBMITTAL
DECEMBER 2022
NOT FOR CONSTRUCTION

PLANS PREPARED BY:

Geosyntec
consultants

3504 LAKE LYNDA DRIVE, SUITE 155
ORLANDO, FL 32817
(407) 321-7030

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

ROADWAY PLANS
ENGINEER OF RECORD: MARK W. ELLARD, P.E.

P.E. NO.: 48073

COUNTY PROJECT MANAGER:
CHRISTOPHER COLEMAN, P.E.

REVISIONS:

BOARD OF COUNTY COMMISSIONERS

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

PROJECT IS LOCATED IN DISTRICT 2

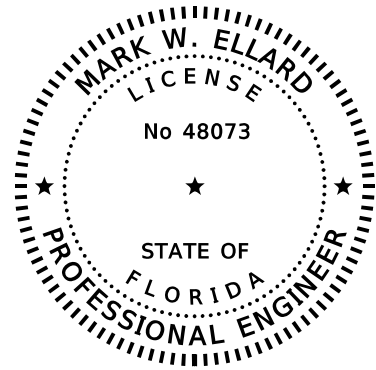
BRYANT APPEGATE, INTERIM COUNTY MANAGER

PUBLIC WORKS DIRECTOR: JEAN JREIJ, P.E.

SHEET
NO.

1

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



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

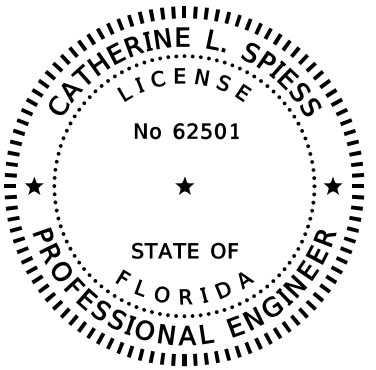
ON THE DATE ADJACENT TO THE SEAL PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

GEOSYNTEC CONSULTANTS, INC.
3504 LAKE LYNDA DRIVE, SUITE 155
ORLANDO, FL 32817
MARK W. ELLARD, P.E. NO. 48073

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

DRAINAGE IMPROVEMENT PLANS

- 1 KEY SHEET
- 2 SIGNATURE SHEET
- 3 SUMMARY OF PAY ITEMS
- 4-7 DRAINAGE MAPS
- 8-9 SUMMARY OF DRAINAGE STRUCTURES
- 10 TYPICAL SECTIONS
- 12-16 SUMMARY OF QUANTITIES
- 40-43 DRAINAGE STRUCTURE DETAILS
- 44-45 OUTFALL PLAN SHEETS
- 46-47 OUTFALL PROFILES
- 48-52 OUTFALL CROSS SECTIONS
- 104-108 STORMWATER POLLUTION PREVENTION PLAN



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

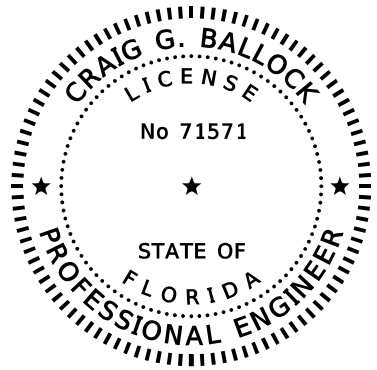
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INWOOD CONSULTING ENGINEERS, INC.
3000 DOVERA DRIVE, SUITE 200
OVIEDO, FL 32765
CATHERINE L. SPIESS, P.E. NO. 62501

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

DRAINAGE IMPROVEMENT PLANS

- 2 SIGNATURE SHEET
- 11 TYPICAL SECTIONS
- 17 PROJECT LAYOUT
- 18 GENERAL NOTES
- 19-28 PLAN SHEETS
- 29-39 PROFILE SHEETS
- 54-90 CROSS SECTIONS
- 91-103 DRIVEWAY CROSS SECTIONS
- 109-110 TRAFFIC CONTROL DETAIL SHEETS
- 111 SIGNING AND PAVEMENT MARKINGS DETAIL



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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
919 LAKE BALDWIN LANE
ORLANDO, FL 32814
CRAIG G. BALLOCK, P.E. NO. 71571

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

DRAINAGE IMPROVEMENT PLANS

- 2 SIGNATURE SHEET
- 53 ROADWAY BORING RESULTS

REVISIONS						Geosyntec consultants 3504 LAKE LYNDA DRIVE SUITE 155 ORLANDO, FL 32817 Mark W. Ellard, PE FL PE #48073 AUTHORIZATION NUMBER 4321	SEMINOLE COUNTY ENGINEERING DIVISION		SIGNATURE SHEET	SHEET NO. 2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
						WHITCOMB DRIVE	02107099			

SUMMARY OF PAY ITEMS				
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	
			P	F
101-1	Mobilization	LS	1	
102-1	Maintenance of Traffic	LS	1	
102-99	Portable Changeable Message Sign, Temporary	ED	180	
104-1	Prevention, Control, and Abatement of Erosion and Water Pollution	LS	1	
110-1-1	Clearing & Grubbing (10% of project excluding Mobilization and MOT)	LS	1	
110-4-10	Removal of Existing Concrete	SY	557	
110-7-1	Mailbox, F&I, Single	EA	25	
120-1	Regular Excavation	CY	9066	
120-6	Embankment	CY	10353	
160-4	Type B Stabilization	SY	16198	
285-706-	Optional Base, Base Group 06 (8" Limerock)	SY	11030	
334-1-12	Superpave Asphaltic Conc, Traffic B	TN	1213.3	
400-4-1	Concrete Class IV, Culverts (36"x60" Box Culvert)	CY	224	
425-1-541	Inlet, Ditch Bottom, Type D, <10'	EA	4	
425-2-71	Manhole, J-7, <10'	EA	4	
430-174-115	Pipe Culvert, RCP, Round, 15", SD	LF	114	
430-174-224	Pipe Culvert, RCP, Elliptical, 24", SD	LF	190	
430-175-230	Pipe Culvert, RCP, Elliptical, 30", S/CD	LF	1355	
430-175-242	Pipe Culvert, RCP, Elliptical, 42", S/CD	LF	555	
430-175-254	Pipe Culvert, RCP, Elliptical, 54", S/CD	LF	1470	
430-984-629	Mitered End Section, Elliptical, 24", SD	EA	6	
430-984-633	Mitered End Section, Elliptical, 30", SD	EA	79	
430-982-640	Mitered End Section, Elliptical, 42", CD	EA	16	
430-982-642	Mitered End Section, Elliptical, 54" CD	EA	4	
522-2	Sidewalk and Driveways (Concrete) (6" Thick)	SY	1874	
524-1-29	Concrete Ditch Pavement, 4", Reinforced	SY	1100	
530-3-3	RipRap- Rubble, Bank and Shore	TN	45.6	
550-10-220	Chain Link Fence	LF	96	
550-10-420	Wooden Fence	LF	2504	
550-60-412	Fence Gate, Wood, Single, 6.1'-12.0' Opening	EA	1	
570-1-2	Performance Turf (Sod)	SY	37189	
700-1-12	Single Post Sign, F&I Ground Mount, 12-20 SF	AS	2	
700-1-60	Single Post Sign, Remove	AS	2	
706-1-3	Raised Pavement Marker, Type B	EA	30	
711-11-125	Thermoplastic, Standard, White, Solid, 24" for Stop Line and Crosswalk	LF	24	
711-16-201	Thermoplastic, Standard-Other Surfaces, Yellow, Solid, 6"	GM	0.203	
900-1	Junction Box	EA	1	
900-2	Keypad, Relocate	EA	1	

PAY ITEM NOTES

- 102-1 INCLUDES ALL ITEMS AND LABOR NECESSARY FOR THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN DESIGNED BY CONTRACTOR AND APPROVED BY SEMINOLE COUNTY ENGINEERING. THE CONTRACTOR SHALL NOTIFY SURROUNDING RESIDENCES AND BUSINESSES OF THE CONSTRUCTION BY FLYER APPROVED BY SEMINOLE COUNTY. ALSO INCLUDES THE COST OF DROP OFF PROTECTION WITHIN CLEAR ZONE DUE TO CONSTRUCTION. ALSO INCLUDED TRAFFIC CONTROL DEVICES SUCH AS BARRELS, BARRIERS, TEMPORARY PAVEMENT, SIGNAGE, ETC.
- 110-1-1 INCLUDES THE COST OF REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS, FENCE REMOVAL, VEGETATION, ASPHALT, TRIMMING OF TREES AS NECESSARY AND ALL OTHER ITEMS IN ORDER TO CONSTRUCT THE PROJECT.
- 900-1 INCLUDES ALL LABOR AND MATERIALS TO CONSTRUCT CONCRETE JUNCTION BOX SHOWN ON PLANS, INCLUDING REINFORCEMENT, HEADWALLS AND STRUCTURE BEDDING PREPARATION.
- 900-2 INCLUDES ALL LABOR AND MATERIALS TO RELOCATE EXISTING KEYPAD.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321



ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

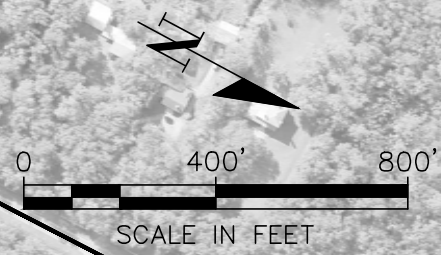
SUMMARY OF PAY ITEMS

SHEET NO.

3

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- NOTES**
- 1) SUBBASINS SHOWN ON THIS MAP ARE THOSE THAT DIRECTLY CONTRIBUTE TO THE LIMITS OF CONSTRUCTION. OTHER CONTRIBUTING AREAS TO THE SOUTH AND WEST ARE NOT SHOWN BUT CONTRIBUTE TO EXISTING DRAINAGE INFRASTRUCTURE.
 - 2) INFORMATION SHOWN ON DRAINAGE MAPS IS NOT FOR CONSTRUCTION.
 - 3) PEAK STAGE SEASON DESIGN HIGH TAILWATER LAKE HARNEY = 2.51 FEET NAVD 1988' (LAKE HARNEY BASIN STUDY, GEOSYNTEC, 2021).



FEMA ZONE AE BOUNDARY
BASE FLOOD ELEVATION = 9 FEET NAVD 1988

STR 23-20-32

CROSSOVER LANE

N JUNGLE ROAD

LAKE HARNEY ROAD

BEGIN CONSTRUCTION
STA. 101+09.06

WHITCOMB DRIVE

END ROADWAY
CONSTRUCTION
STA. 76+91.90

MIDDLE OUTFALL

SOUTH OUTFALL

STR 14-20-32

STR 24-20-32

NORTH OUTFALL

LAKE HARNEY

STR 13-20-32

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

Mark W. Ellard, PE
PE No. 48073
Certificate of Authorization No. 4321

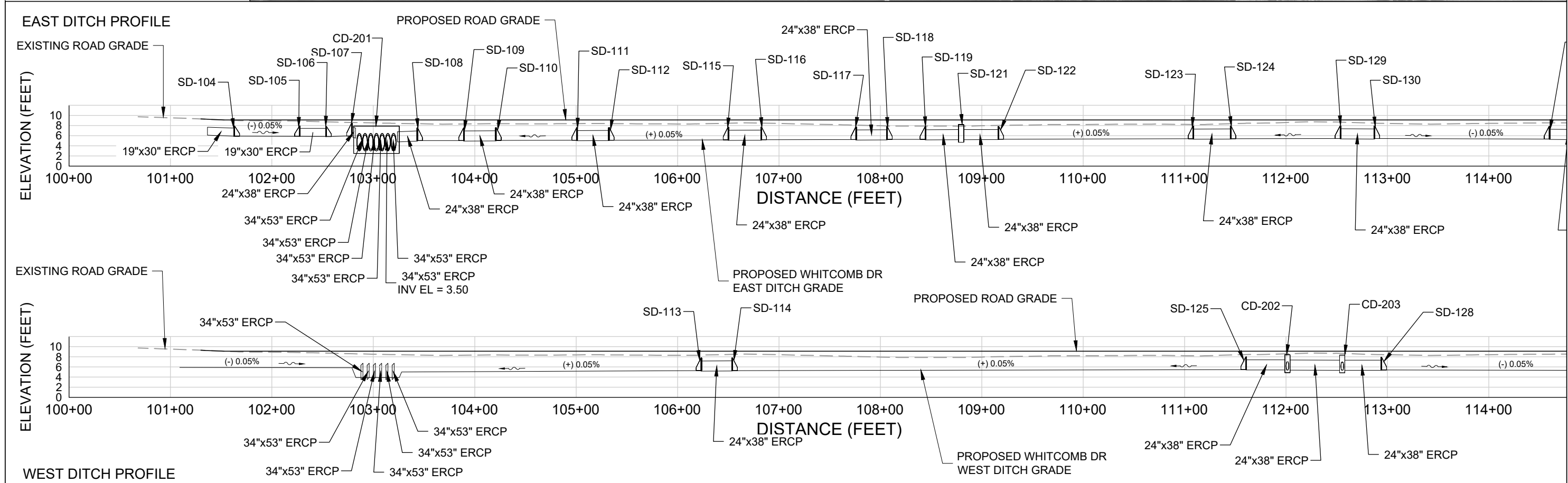
3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.
02107099

OVERALL DRAINAGE MAP

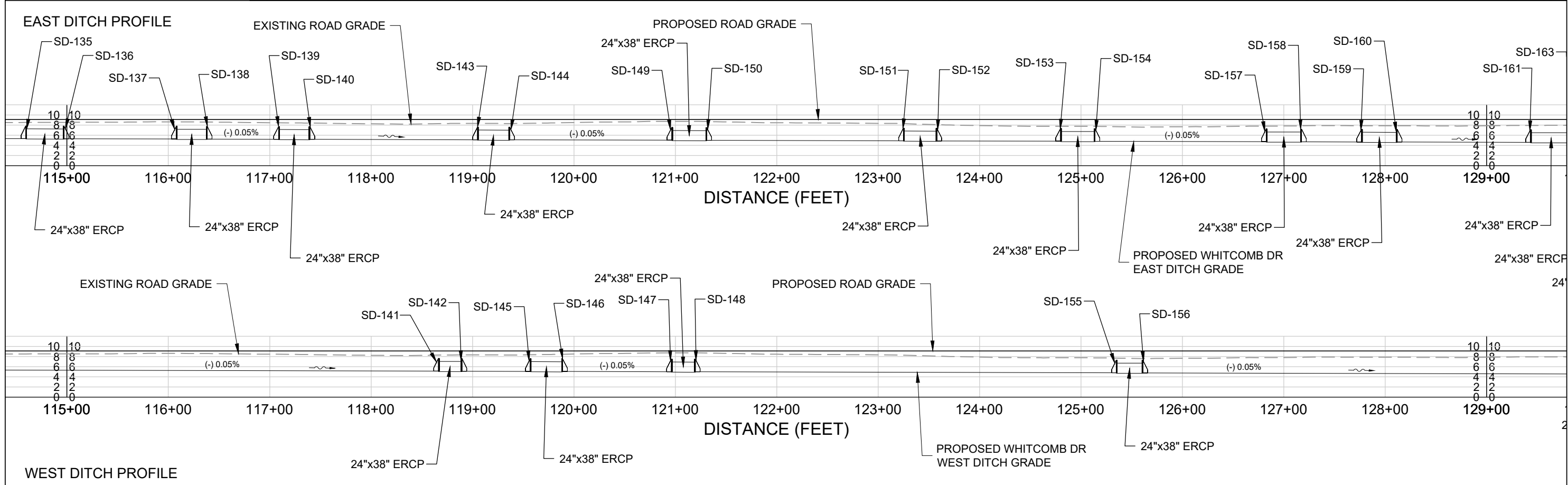
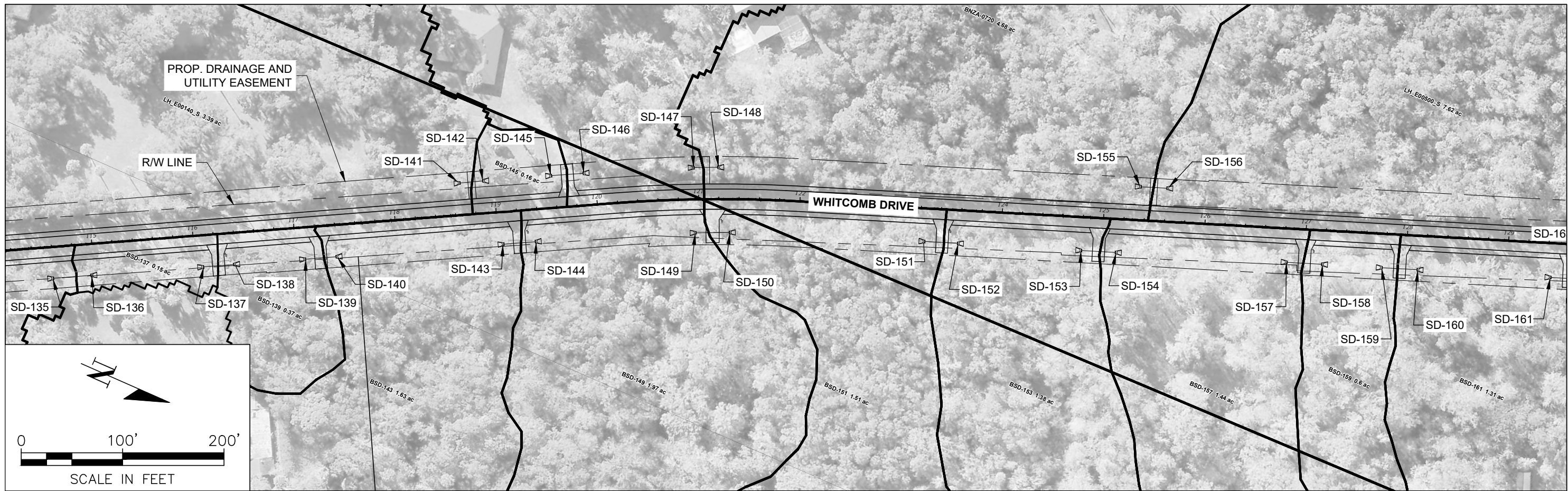
SHEET NO.
4



REVISIONS						Geosyntec [®] consultants	SEMINOLE COUNTY ENGINEERING DIVISION	ROAD NO.	COUNTY CIP NO.	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						Mark W. Ellard, PE PE No. 48073 Certificate of Authorization No. 4321	3504 LAKE LYNDA DRIVE SUITE 155 ORLANDO, FL 32817	02107099	5	

DRAINAGE MAP (1)

SUSERS SDATES STIMES SFILES



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

Mark W. Ellard, PE
PE No. 48073
Certificate of Authorization No. 4321

3504 LAKE LYNDA DRIVE
SUITE 155
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SEMINOLE COUNTY
ENGINEERING DIVISION

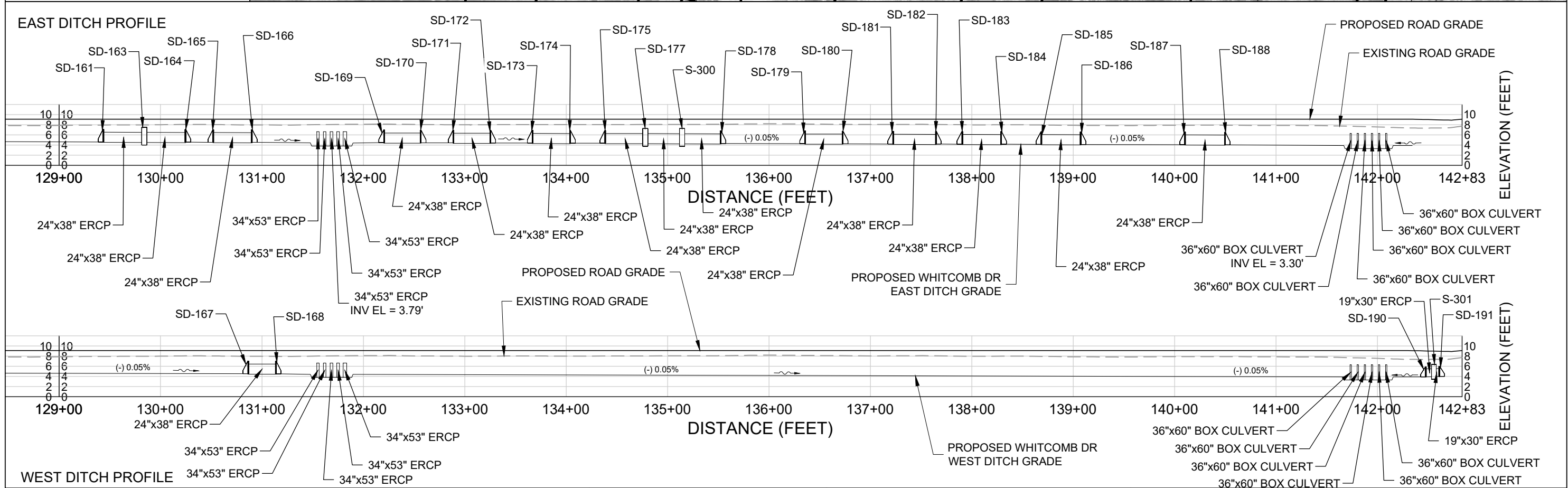
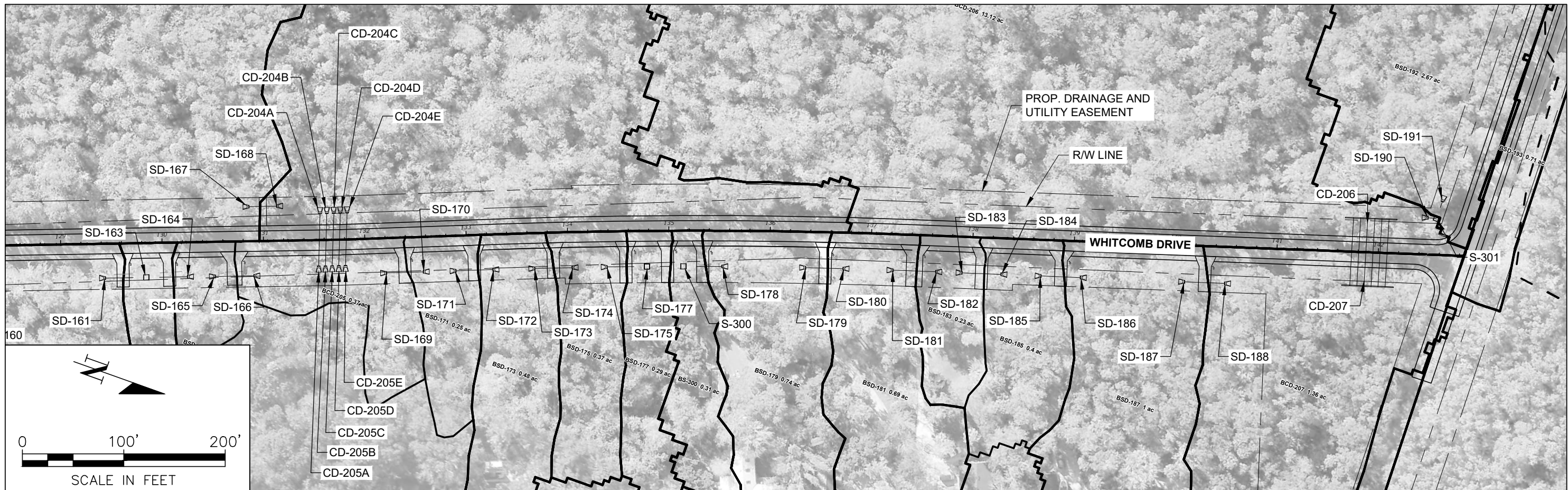
ROAD NO. COUNTY CIP NO.

02107099

DRAINAGE MAP (2)

SHEET NO.

6



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

Mark W. Ellard, PE
PE No. 48073
Certificate of Authorization No. 4321

3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

SEMINOLE COUNTY
ENGINEERING DIVISION



ROAD NO. COUNTY CIP NO.
02107099

DRAINAGE MAP (3)

SHEET NO.
7



CROSS-DRAINS STRUCTURES				CROSS-DRAINS STRUCTURES				PROPOSED-WHITCOMB-WEST STRUCTURES																																																			
STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES																																																
CD-200A	MES	0.00	NE 34" ERCP INV EL = 3.90'	CD-205C	MES	7.62	W 34" ERCP INV EL = 3.79'	CD-202	MANHOLE	8.40	SE 24" ERCP INV EL = 5.40' SW 19" ERCP INV EL = 5.41' NW 24" ERCP INV EL = 5.38'																																																
CD-200B	MES	0.00	NE 34" ERCP INV EL = 3.90'	CD-205D	MES	7.62	W 34" ERCP INV EL = 3.79'																																																				
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CD-200D	MES	0.00	NE 34" ERCP INV EL = 3.90'	CD-206	BOX CULVERT HEADWALL	7.80	E 50X (6) 36"x60" BOX CULVERTS INV EL = 3.30'	CD-203	MANHOLE	8.35	SW 19" ERCP INV EL = 5.35' NW 24" ERCP INV EL = 5.35' SE 24" ERCP INV EL = 5.35'																																																
CD-200E	MES	0.00	NE 34" ERCP INV EL = 3.90'	CD-207	BOX CULVERT HEADWALL	8.40	W 50X (6) 36"x60" BOX CULVERTS INV EL = 3.30'																																																				
CD-200F	MES	0.00	NE 34" ERCP INV EL = 3.90'	<table border="1"> <thead> <tr> <th colspan="4">PROPOSED-WHITCOMB-WEST STRUCTURES</th> </tr> <tr> <th>STRUCTURE ID</th> <th>TYPE</th> <th>RIM ELEVATION</th> <th>CONNECTED PIPES</th> </tr> </thead> <tbody> <tr> <td>SD-168</td> <td>MES</td> <td>7.00</td> <td>S 24" ERCP INV EL = 4.42'</td> </tr> <tr> <td>SD-190</td> <td>MES</td> <td>5.90</td> <td>N 19" ERCP INV EL = 3.90'</td> </tr> <tr> <td>SD-191</td> <td>MES</td> <td>5.98</td> <td>E 19" ERCP INV EL = 3.98'</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="4">PROPOSED-CROSSOVER-SOUTH STRUCTURES</th> </tr> <tr> <th>STRUCTURE ID</th> <th>TYPE</th> <th>RIM ELEVATION</th> <th>CONNECTED PIPES</th> </tr> </thead> <tbody> <tr> <td>SD-133</td> <td>MANHOLE</td> <td>7.46</td> <td>NE 15" RCP INV EL = 5.52'</td> </tr> <tr> <td>SD-134</td> <td>MES</td> <td>7.62</td> <td>SW 15" RCP INV EL = 6.10'</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="4">PROPOSED-CROSSOVER-NORTH STRUCTURES</th> </tr> <tr> <th>STRUCTURE ID</th> <th>TYPE</th> <th>RIM ELEVATION</th> <th>CONNECTED PIPES</th> </tr> </thead> <tbody> <tr> <td>SD-131</td> <td>MES</td> <td>7.42</td> <td>NE 19" ERCP INV EL = 5.42'</td> </tr> <tr> <td>SD-132</td> <td>MES</td> <td>7.40</td> <td>SW 19" ERCP INV EL = 5.40'</td> </tr> </tbody> </table>				PROPOSED-WHITCOMB-WEST STRUCTURES				STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	SD-168	MES	7.00	S 24" ERCP INV EL = 4.42'	SD-190	MES	5.90	N 19" ERCP INV EL = 3.90'	SD-191	MES	5.98	E 19" ERCP INV EL = 3.98'	PROPOSED-CROSSOVER-SOUTH STRUCTURES				STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	SD-133	MANHOLE	7.46	NE 15" RCP INV EL = 5.52'	SD-134	MES	7.62	SW 15" RCP INV EL = 6.10'	PROPOSED-CROSSOVER-NORTH STRUCTURES				STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	SD-131	MES	7.42	NE 19" ERCP INV EL = 5.42'	SD-132	MES	7.40	SW 19" ERCP INV EL = 5.40'
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SD-132	MES	7.40	SW 19" ERCP INV EL = 5.40'																																																								
CD-201	JUNCTION BOX	7.90	SW 34" ERCP INV EL = 3.50' NE 43" ERCP INV EL = 3.50' SW 34" ERCP INV EL = 3.50' SW 34" ERCP INV EL = 3.50' SW 34" ERCP INV EL = 3.50' SW 34" ERCP INV EL = 3.50' NE 43" ERCP INV EL = 3.50' NE 43" ERCP INV EL = 3.50' NE 43" ERCP INV EL = 3.50' NE 43" ERCP INV EL = 3.50'																																																								
			CD-201A	MES	2.40	SW 43" ERCP INV EL = -1.58'																																																					
			CD-201B	MES	2.40	SW 43" ERCP INV EL = -1.58'																																																					
			CD-201C	MES	2.40	SW 43" ERCP INV EL = -1.58'																																																					
			CD-201D	MES	2.40	SW 43" ERCP INV EL = -1.58'																																																					
			CD-204A	MES	7.62	E 34" ERCP INV EL = 3.79'																																																					
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NOTE: MES RIM ELEVATION REFERS TO TOP OF STRUCTURE.

REVISIONS								SUMMARY OF DRAINAGE STRUCTURES (1)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						<small>Mark W. Ellard, PE PE No. 48073 Certificate of Authorization No. 4321</small>	<small>3504 LAKE LYNDA DRIVE SUITE 155 ORLANDO, FL 32817</small>	<small>ROAD NO.</small> 02107099 <small>COUNTY CIP NO.</small>	8

PROPOSED-WHITCOMB-EAST STRUCTURES				PROPOSED-WHITCOMB-EAST STRUCTURES				PROPOSED-WHITCOMB-EAST STRUCTURES				PROPOSED-WHITCOMB-EAST STRUCTURES			
STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES
S-300	DITCH BOTTOM INLET	7.24	S 24" ERCP INV EL = 4.22' N 24" ERCP INV EL = 4.22'	SD-124	MES	7.90	SE 24" ERCP INV EL = 5.32'	SD-158	MES	7.20	S 24" ERCP INV EL = 4.62'	SD-180	MES	6.72	S 24" ERCP INV EL = 4.14'
SD-104	MES	7.89	SE 19" ERCP INV EL = 5.89'	SD-129	MES	7.93	NW 24" ERCP INV EL = 5.35'	SD-159	MES	7.17	N 24" ERCP INV EL = 4.59'	SD-181	MES	6.70	N 24" ERCP INV EL = 4.12'
SD-105	MES	7.86	NW 19" ERCP INV EL = 5.86'	SD-130	MES	7.91	SE 24" ERCP INV EL = 5.33'	SD-160	MES	7.15	S 24" ERCP INV EL = 4.57'	SD-182	MES	6.67	S 24" ERCP INV EL = 4.09'
SD-106	MES	7.84	SE 19" ERCP INV EL = 5.84'	SD-135	MES	7.83	NW 24" ERCP INV EL = 5.25'	SD-161	MES	7.09	N 24" ERCP INV EL = 4.51'	SD-183	MES	6.66	N 24" ERCP INV EL = 4.08'
SD-107	MES	8.41	NW 24" ERCP INV EL = 5.83'	SD-136	MES	7.80	SE 24" ERCP INV EL = 5.22'	SD-163	DITCH BOTTOM INLET	7.49	S 24" ERCP INV EL = 4.49' N 24" ERCP INV EL = 4.49'	SD-184	MES	6.64	S 24" ERCP INV EL = 4.06'
SD-108	MES	7.51	SE 24" ERCP INV EL = 4.93'	SD-137	MES	7.75	NW 24" ERCP INV EL = 5.17'	SD-164	MES	7.04	S 24" ERCP INV EL = 4.46'	SD-185	MES	6.63	N 24" ERCP INV EL = 4.05'
SD-109	MES	7.52	NW 24" ERCP INV EL = 4.94'	SD-138	MES	7.73	SE 24" ERCP INV EL = 5.15'	SD-165	MES	7.03	N 24" ERCP INV EL = 4.45'	SD-186	MES	6.60	S 24" ERCP INV EL = 4.02'
SD-110	MES	7.55	SE 24" ERCP INV EL = 4.97'	SD-139	MES	7.70	NW 24" ERCP INV EL = 5.12'	SD-166	MES	7.01	S 24" ERCP INV EL = 4.43'	SD-187	MES	6.56	N 24" ERCP INV EL = 3.98'
SD-111	MES	7.58	NW 24" ERCP INV EL = 5.00'	SD-140	MES	7.68	SE 24" ERCP INV EL = 5.10'	SD-169	MES	6.95	N 24" ERCP INV EL = 4.37'	SD-188	MES	6.53	S 24" ERCP INV EL = 3.95'
SD-112	MES	7.60	SE 24" ERCP INV EL = 5.02'	SD-143	MES	7.60	NW 24" ERCP INV EL = 5.02'	SD-170	MES	6.93	S 24" ERCP INV EL = 4.35'				
SD-115	MES	7.65	NW 24" ERCP INV EL = 5.07'	SD-144	MES	7.58	SE 24" ERCP INV EL = 5.00'	SD-171	MES	6.91	N 24" ERCP INV EL = 4.33'				
SD-116	MES	7.68	SE 24" ERCP INV EL = 5.10'	SD-149	MES	7.51	NW 24" ERCP INV EL = 4.93'	SD-172	MES	6.89	S 24" ERCP INV EL = 4.31'				
SD-117	MES	7.72	NW 24" ERCP INV EL = 5.14'	SD-150	MES	7.49	SE 24" ERCP INV EL = 4.91'	SD-173	MES	6.88	N 24" ERCP INV EL = 4.30'				
SD-118	MES	7.74	SE 24" ERCP INV EL = 5.16'	SD-151	MES	7.40	N 24" ERCP INV EL = 4.82'	SD-174	MES	6.85	S 24" ERCP INV EL = 4.27'				
SD-119	MES	7.75	NW 24" ERCP INV EL = 5.17'	SD-152	MES	7.37	S 24" ERCP INV EL = 4.79'	SD-175	MES	6.84	N 24" ERCP INV EL = 4.26'				
SD-121	DITCH BOTTOM INLET	8.19	SE 24" ERCP INV EL = 5.19' NW 24" ERCP INV EL = 5.19'	SD-153	MES	7.32	N 24" ERCP INV EL = 4.74'	SD-177	DITCH BOTTOM INLET	7.26	S 24" ERCP INV EL = 4.24' N 24" ERCP INV EL = 4.24'				
SD-122	MES	7.79	SE 24" ERCP INV EL = 5.21'	SD-154	MES	7.30	S 24" ERCP INV EL = 4.72'	SD-178	MES	6.78	S 24" ERCP INV EL = 4.20'				
SD-123	MES	7.88	NW 24" ERCP INV EL = 5.30'	SD-157	MES	7.22	N 24" ERCP INV EL = 4.64'	SD-179	MES	6.74	N 24" ERCP INV EL = 4.16'				

NOTE: MES RIM ELEVATION REFERS TO TOP OF STRUCTURE.

REVISIONS									SUMMARY OF DRAINAGE STRUCTURES (2)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
							02107099		9	

Mark W. Ellard, PE
PE No. 48073
Certificate of Authorization No. 4321

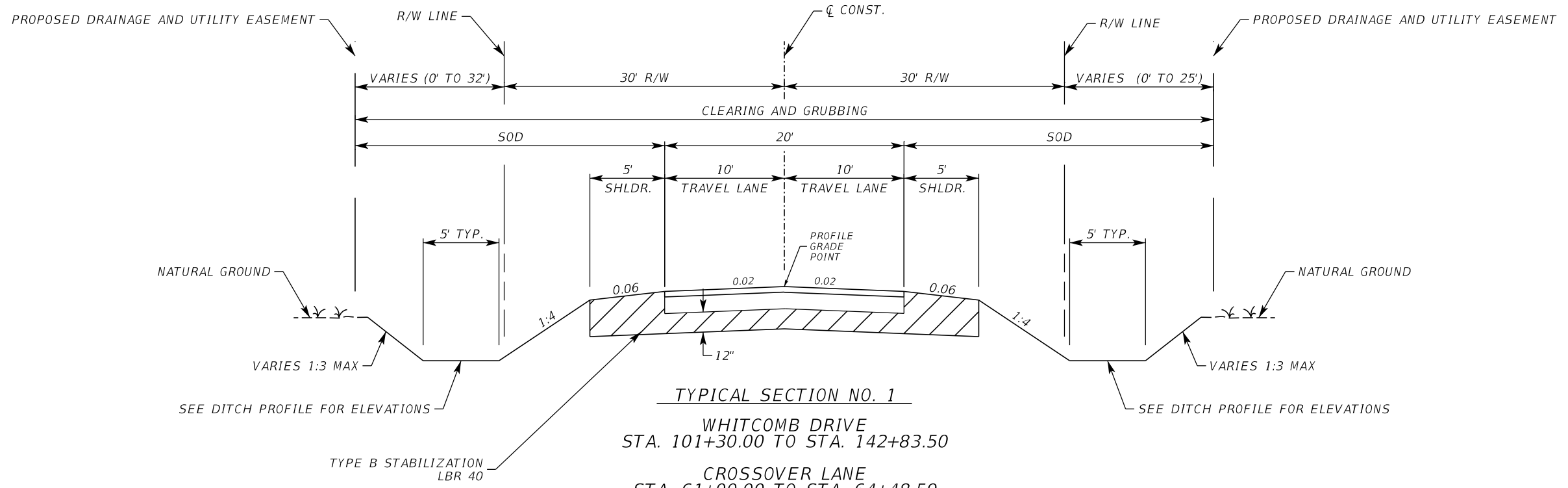
3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

SUSERS

SDATES

STIMES

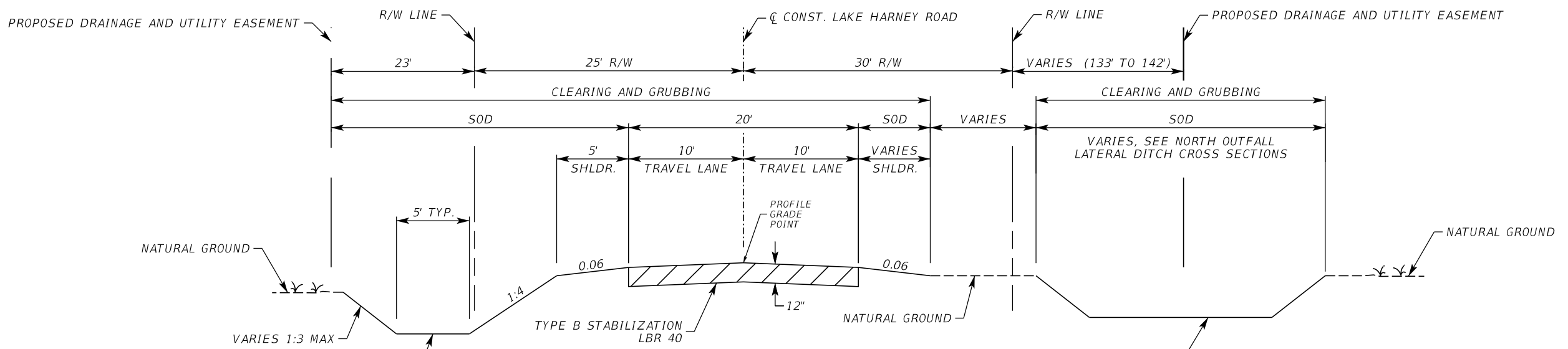
SFILES



TYPICAL SECTION NO. 1
 WHITCOMB DRIVE
 STA. 101+30.00 TO STA. 142+83.50
 CROSSOVER LANE
 STA. 61+00.00 TO STA. 64+48.59
 LAKE HARNEY ROAD
 STA. 72+00.00 TO STA. 76+20.86

TRAFFIC DATA
 DESIGN SPEED = 25 MPH
 POSTED SPEED = 25 MPH

TRAVEL LANES
 8" LIMEROCK BASE WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")



UNPAVED TRAVEL LANES
 12" TYPE B STABILIZATION LBR 40
 LAKE HARNEY ROAD
 STA. 76+20.86 TO STA. 76+91.90

TRAFFIC DATA
 DESIGN SPEED = 25 MPH
 POSTED SPEED = 25 MPH

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

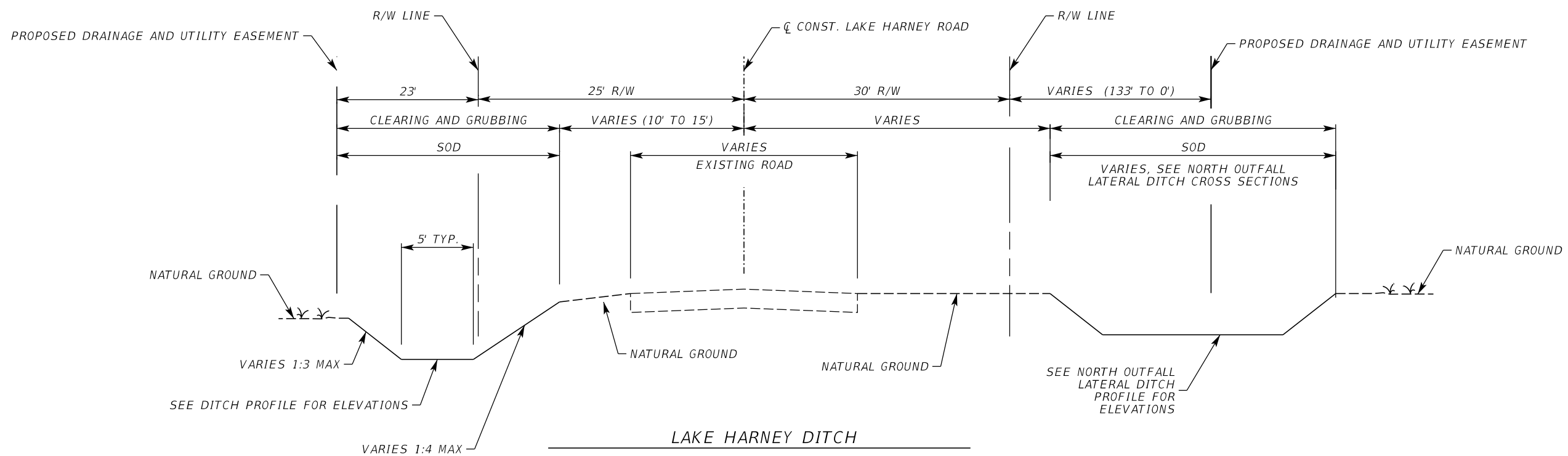
Geosyntec
 consultants
 3504 LAKE LYNDA DRIVE
 SUITE 155
 ORLANDO, FL 32817
 Mark W. Elford, PE
 FL PE #48073
 AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD NO. WHITCOMB DRIVE
 COUNTY CIP NO. 02107099

TYPICAL SECTION

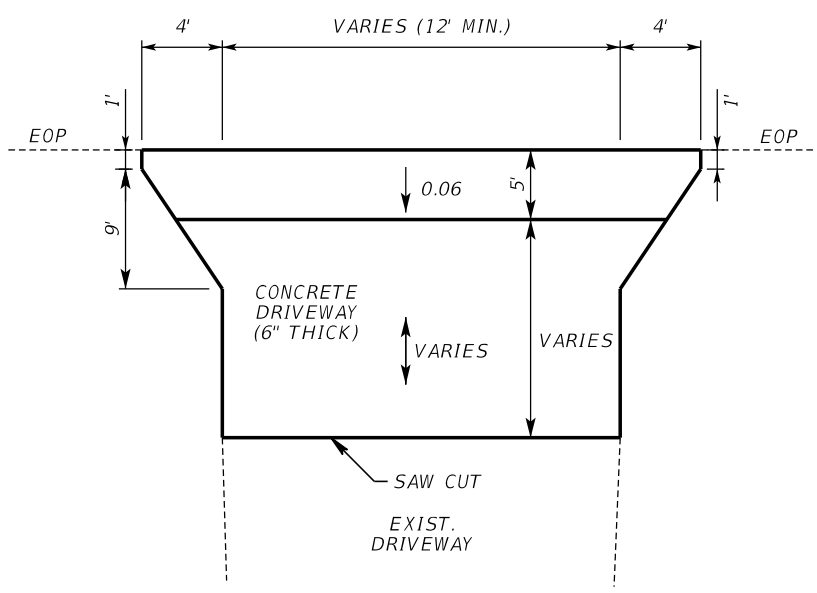
SHEET NO.
 10

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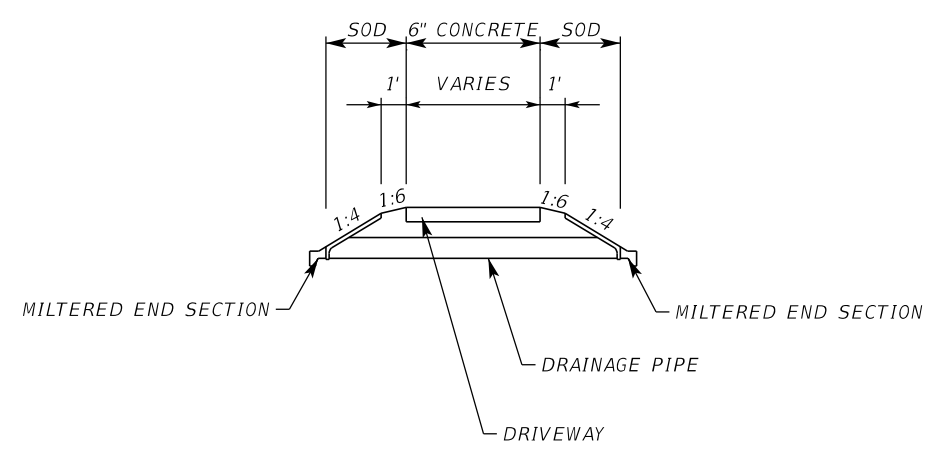


LAKE HARNEY DITCH
 LAKE HARNEY ROAD
 STA. 76+91.90 TO STA. 80+41.20

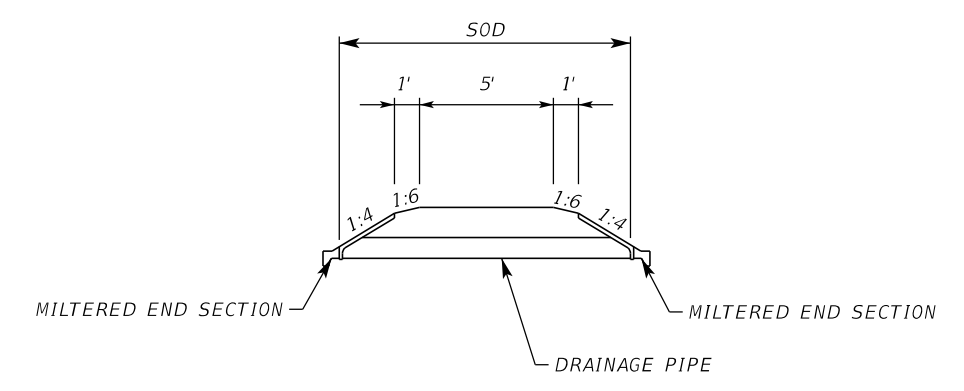
TRAFFIC DATA
 DESIGN SPEED = 25 MPH
 POSTED SPEED = 25 MPH



DRIVEWAY DETAIL
 SEE PLANS FOR LOCATIONS



DRIVEWAY SHOULDER DETAIL
 SEE PLANS FOR LOCATIONS
 AND PIPE INFORMATION



PEDESTRIAN ACCESS DETAIL
 SEE PLANS FOR LOCATIONS
 AND PIPE INFORMATION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
 consulting engineers
 Catherine L. Spiess, PE
 PE No. 62501
 Certificate of Authorization No. 7074

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD NO. COUNTY CIP NO.
 WHITCOMB DRIVE 02107099

TYPICAL SECTION

SHEET NO.
 II

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

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101-1	MOBILIZATION	1			
102-1	MAITENANCE OF TRAFFIC	1			

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		0110	7 1		
		P	F		
STA. 101+61.00	RT	1		WHITCOMB DRIVE	
STA. 102+55.00	RT	1			
STA. 105+30.00	RT	1			
STA. 106+81.00	RT	1			
STA. 108+72.00	RT	1			
STA. 109+15.00	RT	1			
STA. 111+41.00	RT	1			
STA. 116+36.00	RT	1			
STA. 119+35.00	RT	1			
STA. 121+28.00	RT	1			
STA. 123+55.00	RT	1			
STA. 128+14.00	RT	1			
STA. 129+74.00	RT	1			
STA. 130+20.00	RT	1			
STA. 130+85.00	RT	1			
STA. 132+50.00	RT	1			
STA. 133+97.00	RT	1			
STA. 134+70.00	RT	1			
STA. 135+12.00	RT	1			
STA. 135+47.00	RT	1			
STA. 136+68.00	RT	1			
STA. 137+58.00	RT	1			
STA. 139+05.00	RT	1			
STA. 140+42.00	RT	1			
		1			
SUB-TOTAL:		25			
TOTAL:		25			

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120-1	EXCAVATION	9066			
120-6	EMBANKMENT	10353			

REVISIONS						Geosyntec consultants	3504 LAKE LYNDY DRIVE SUITE 155 ORLANDO, FL 32817	SEMINOLE COUNTY ENGINEERING DIVISION	ROAD NO.	COUNTY CIP NO.	SUMMARY OF QUANTITIES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							
						Mark W. Ellard, PE FL PE #48073	AUTHORIZATION NUMBER 4321	WHITCOMB DRIVE	02107099		12	

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

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES
		STA. TO STA.					AREA (AC)	AREA (SY)	P	F	P	F	
		110-4-10	REMOVAL OF EXIST. CONCRETE				62+81.48 to 63+08.51		LT	14698	SY		
		107+77.14 to 108+04.25		RT	7189				44.7				EXIST. DRIVEWAY
		108+48.77 to 108+73.16		RT	7202				37.5				EXIST. DRIVEWAY
		108+89.04 to 109+15.17		RT	7215				45.2				EXIST. DRIVEWAY
		112+56.02 to 112+83.07		RT	7228				59.6				EXIST. DRIVEWAY
		130+54.85 to 130+85.41		RT	7261				60.7				EXIST. DRIVEWAY
		133+75.41 to 133+94.78		RT	7287				18.5				EXIST. DRIVEWAY
		135+20.32 to 135+49.18		RT	7272				62.4				EXIST. DRIVEWAY
		137+28.37 to 137+58.60		RT	7295				83.1				EXIST. DRIVEWAY
		138+72.70 to 139+00.57		RT	7312				53.6				EXIST. DRIVEWAY
		140+16.85 to 140+42.39		RT	7325				49.3				EXIST. DRIVEWAY

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES
		STA. TO STA.	DESCRIPTION						P	F	P	F	
		0160 4	Type B Stabilization						60+90.00 to 64+11.02		LT/RT	8481	
		71+90.00 to 76+20.87		LT/RT	8118				1552.5				LAKE HARNEY ROAD
		76+20.85 to 76+91.90		LT/RT	4883				157.9				LAKE HARNEY ROAD
		101+20.00 to 142+36.83		RT	14026				13440.5				WHITCOMB DRIVE
285706	Optional Base, Base Group 06 (8" Limerock)	60+90.00 to 64+11.02		LT/RT	14559			SY	715.5		11030		CROSSOVER LANE
		71+90.00 to 76+20.87		LT/RT	14455				1074.8				LAKE HARNEY ROAD
		101+20.00 to 142+36.83		LT/RT	14467				9239.6				WHITCOMB DRIVE
0334 1 12	Superpave Asphaltic Conc, Traffic B	60+90.00 to 64+11.02		LT/RT	14318			TN	78.70		1213.3		CROSSOVER LANE
		71+90.00 to 76+20.87		LT/RT	14326				118.23				LAKE HARNEY ROAD
		101+20.00 to 142+36.83		LT/RT	14338				1016.35				WHITCOMB DRIVE

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



3504 LAKE LYNDY DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321



ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

SUMMARY OF QUANTITIES

SHEET NO.

13

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
					0522	2		
STA. TO STA.					P	F		
62+81.48 to 63+08.51	LT	14937			64.0			CROSSOVER LANE
101+38.64 to 101+58.64	RT	14838			38.6			WHITCOMB DRIVE
102+30.44 to 102+50.44	RT	14847			44.9			
103+95.11 to 104+15.11	RT	14856			52.9			
105+06.31 to 105+26.41	RT	14865			52.9			
106+23.93 to 106+50.76	LT	14874			57.7			
106+52.76 to 106+82.11	RT	14883			55.7			
107+81.21 to 108+01.31	RT	14892			52.9			
108+49.33 to 108+69.42	RT	14901			52.9			
108+91.72 to 109+11.82	RT	14910			44.9			
111+18.13 to 111+38.22	RT	14919			46.2			
112+58.42 to 112+83.56	RT	14928			52.0			
116+13.07 to 116+33.07	RT	14946			46.2			
117+14.11 to 117+34.11	RT	14955			47.6			
119+10.73 to 119+30.73	RT	14964			47.6			
119+62.81 to 119+82.81	LT	14973			47.6			
121+01.23 to 121+26.43	RT	14982			57.8			
123+32.21 to 123+52.21	RT	14991			51.6			
124+86.74 to 125+06.74	RT	15000			51.6			
126+90.00 to 127+10.00	RT	15009			51.6			
127+84.16 to 128+04.16	RT	15018			51.6			
129+51.14 to 129+71.14	RT	15027			51.6			
129+96.92 to 130+16.92	RT	15036			51.6			
130+57.78 to 130+84.28	RT	15045			63.7			
132+28.47 to 132+48.47	RT	15054			51.6			
132+97.02 to 133+17.02	RT	15063			51.6			
133+75.25 to 133+95.29	RT	15072			51.6			
134+47.16 to 134+67.20	RT	15081			59.6			
134+88.48 to 135+08.52	RT	15090			59.6			
135+23.17 to 135+43.22	RT	15099			59.6			
136+44.97 to 136+65.01	RT	15108			59.6			
137+29.41 to 137+57.43	RT	15117			80.2			
137+99.69 to 138+19.69	RT	15126			59.6			
138+75.88 to 138+99.88	RT	15135			54.0			
140+19.88 to 140+39.88	RT	15144			51.6			
SUB-TOTAL:					1874.3			
TOTAL:					1874			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

3504 LAKE LYNDIA DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

SUMMARY OF QUANTITIES

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.

SUMMARY OF FENCING

PAY ITEM NO.	DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				P	F	P	F		
		550-10-220	CHAIN LINK FENCE			101+65.79	to 102+34.44	RT	LF		
	CHAIN LINK FENCE	102+46.44	to 102+77.18	RT	LF	30.7					
550-10-420	WOODEN FENCE	104+00.00	to 106+38.84	LT	LF	243.3		2504		WHITCOMB DRIVE	
	WOODEN FENCE	106+51.02	to 109+43.94	LT	LF	303.7					
	WOODEN FENCE	112+73.04	to 119+66.81	LT	LF	684.9					
	WOODEN FENCE	112+88.46	to 114+37.76	RT	LF	148.5					
	WOODEN FENCE	119+78.81	to 119+94.16	LT	LF	15.4					
	WOODEN FENCE	120+60.00	to 121+06.91	RT	LF	45.3					
	WOODEN FENCE	121+24.00	to 121+80.00	RT	LF	54.1					
	WOODEN FENCE	122+02.33	to 125+44.28	LT	LF	341.9					
	WOODEN FENCE	125+51.28	to 126+08.66	LT	LF	57.7					
	WOODEN FENCE	131+13.98	to 134+05.14	LT	LF	291.1					
	WOODEN FENCE	60+69.76	to 62+86.63	LT	LF	216.9				CROSSOVER LANE	
	WOODEN FENCE	63+01.63	to 64+02.39	LT	LF	100.8					
550-60-412	FENCE GATE, WOOD, SINGLE, 6.1' - 12.0' OPENING	125+44.28	to 125+51.28	LT	EA	1.0		1		WHITCOMB DRIVE	

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

3504 LAKE LYNDY DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO.	COUNTY CIP NO.
WHITCOMB DRIVE	02107099

SUMMARY OF QUANTITIES

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.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
60+63.99 to 62+87.25	LT	16035			828.5		CROSSOVER LANE	
61+00.00 to 64+11.02	RT	16073			947.5			
63+01.66 to 64+11.02	LT	16046			405.6			
71+99.91 to 75+66.33	RT	17818			1307.8		LAKE HARNEY ROAD	
71+99.98 to 80+43.22	LT	18295			2949.7			
75+85.53 to 76+91.90	RT	17781			251.8			
101+09.06 to 106+38.57	LT	15973			1943.6		WHITCOMB DRIVE	
101+30.00 to 101+42.64	RT	15890			18.9			
101+54.64 to 102+34.44	RT	15916			249.7			
102+46.44 to 103+99.11	RT	16141			535.5			
104+11.11 to 105+10.61	RT	16301			391.4			
105+22.51 to 106+61.79	RT	16328			534.0			
106+43.12 to 112+18.54	LT	16107			2119.8			
106+65.69 to 107+85.21	RT	16356			442.8			
107+97.31 to 108+53.32	RT	16382			216.3			
108+65.43 to 108+95.72	RT	16410			102.4			
109+07.82 to 111+22.12	RT	16426			651.5			
111+34.23 to 112+64.13	RT	16465			393.5			
112+38.16 to 119+66.81	LT	16544			2553.0			
112+76.62 to 116+17.07	RT	16578			1133.9			
116+29.07 to 117+18.11	RT	17765			285.4			
117+30.11 to 119+14.73	RT	17749			578.9			
119+26.73 to 121+07.19	RT	17570			604.7			
119+78.81 to 142+36.83	LT	18179			8503.4			
121+20.36 to 123+36.21	RT	17555			740.6			
123+48.21 to 124+90.74	RT	17543			474.4			
125+02.74 to 126+94.00	RT	17527			584.9			
127+06.00 to 127+88.16	RT	17512			260.1			
128+00.16 to 129+55.14	RT	17498			492.3			
129+67.14 to 130+00.92	RT	17486			113.2			
130+12.92 to 130+63.78	RT	17474			190.5			
130+78.28 to 132+32.47	RT	17297			563.3			
132+44.47 to 133+01.02	RT	17284			215.0			
133+13.02 to 133+79.25	RT	17266			240.6			
133+91.29 to 134+51.16	RT	17251			244.5			
134+63.20 to 134+92.48	RT	17240			125.8			
135+04.52 to 135+27.38	RT	17228			92.4			
135+39.28 to 136+48.97	RT	17214			428.6			
136+61.02 to 137+35.41	RT	17200			292.3			
137+51.43 to 138+03.69	RT	15858			221.8			
138+15.69 to 138+81.88	RT	15829			249.5			
138+93.88 to 140+23.88	RT	15801			481.1			
140+35.88 to 142+36.83	RT	17162			823.9			
300+47.94 to 304+48.38	LT/RT	17191			2404.9		NORTH OUTFALL	
SUB-TOTAL :					37189.3			
TOTAL :					37189			

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Elford, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
ENGINEERING DIVISION

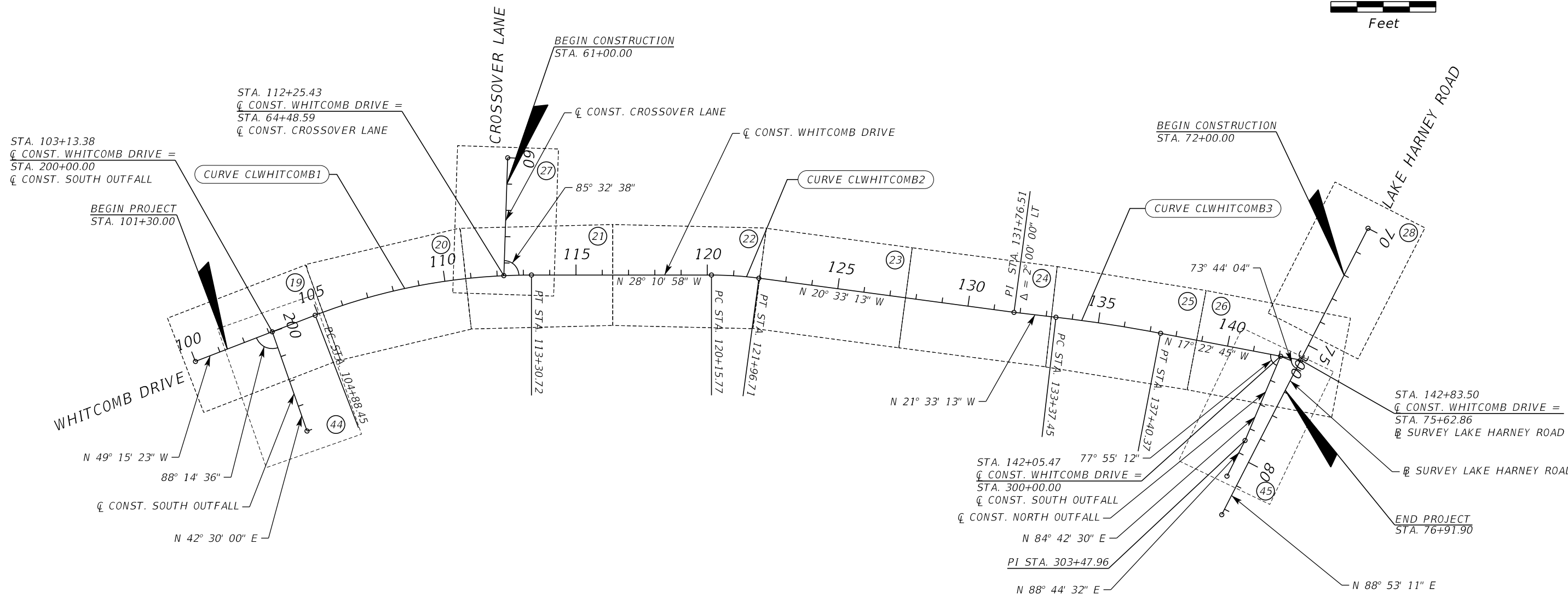
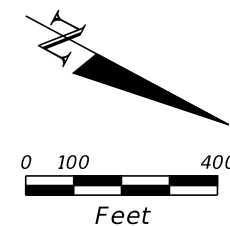
ROAD NO.	COUNTY CIP NO.
WHITCOMB DRIVE	02107099

SUMMARY OF QUANTITIES

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.



CURVE DATA CLWHITCOMB1	CURVE DATA CLWHITCOMB2	CURVE DATA CLWHITCOMB3
PI STA. = 109+14.40	PI STA. = 121+06.37	PI STA. = 135+39.00
Δ = 21° 04' 25" (RT)	Δ = 7° 37' 45" (RT)	Δ = 4° 10' 29" (RT)
D = 2° 30' 07"	D = 4° 12' 59"	D = 1° 02' 10"
T = 425.95	T = 90.61	T = 201.55
L = 842.28	L = 180.94	L = 402.92
R = 2,290.00	R = 1,358.92	R = 5,530.00
PC STA. = 104+88.45	PC STA. = 120+15.77	PC STA. = 133+37.45
PT STA. = 113+30.72	PT STA. = 121+96.71	PT STA. = 137+40.37
e = NC	e = NC	e = NC

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

PROJECT LAYOUT

SHEET NO. 17

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

GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
2. THE CONTRACTOR IS TO OBTAIN A CONSTRUCTION PERMIT ONE (1) WEEK PRIOR TO CONSTRUCTION FROM SEMINOLE COUNTY PUBLIC WORKS ENGINEERING DIVISION FOR "RIGHT-OF-WAY UTILIZATION". CONTACT SEMINOLE COUNTY PERMIT COORDINATOR AT 100 E. FIRST STREET, SANFORD, FL, 32771 TELEPHONE (407) 665-7409. NO FEE REQUIRED.
3. ALL PERSONAL 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. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY CONSTRUCTION WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING PRE-CONSTRUCTION CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.
4. SHRUBS THAT CONFLICT WITH THE PROPOSED DESIGN SHALL BE REMOVED. NO TREES ARE TO BE REMOVED WITHOUT THE APPROVAL FROM THE SEMINOLE COUNTY PROJECT MANAGER.
5. ANY DRAINAGE PROBLEMS EXISTING BEFORE AND DURING CONSTRUCTION SHOULD BE BROUGHT TO THE ATTENTION OF THE SEMINOLE COUNTY ENGINEERING INSPECTOR IMMEDIATELY.
6. ALL EXISTING DRAINAGE STRUCTURES ARE TO BE REMOVED UNLESS OTHERWISE SPECIFIED IN THE PLANS. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED AND EXISTING DRAINAGE STRUCTURES AND FACILITIES SHALL BE MAINTAINED AND FULLY FUNCTIONAL DURING CONSTRUCTION.
7. TEMPORARY DRAINAGE SHALL BE PROVIDED DURING CONSTRUCTION TO ELIMINATE ANY FLOODING OF PRIVATE PROPERTY. COST FOR TEMPORARY DRAINAGE ITEMS SHALL BE INCLUDED UNDER 102-1.
8. SOIL MATERIALS USED FOR FILL OR GRADING ACTIVITIES SHALL BE APPROVED BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR PRIOR TO USE.
9. THE CONTRACTOR SHALL NOTIFY THE SEMINOLE COUNTY ENGINEERING INSPECTOR FOR A FIELD INSPECTION PRIOR TO PLACEMENT OF ANY CONCRETE.
10. THE TEST REQUIREMENTS FOR CLASS 1 CONCRETE WILL BE WAIVED UPON PRESENTATION TO THE INSPECTOR A WRITTEN CERTIFICATION FROM THE PLANT THAT THE CONCRETE IS 3000 PSI CONCRETE MIX.
11. 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.
12. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS PRIOR TO COMPLETION OF THE PROJECT.
13. ANY NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE CONTRACTOR SHOULD NOTIFY THE FLORIDA DEPARTMENT OF NATURAL RESOURCES, BUREAU OF SURVEYS AND MAPPING, 3900 COMMONWEALTH BLVD., SUITE 309, TALLAHASSEE, FLORIDA 32399. TELEPHONE (850) 245-2118.
14. 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 IMMEDIATELY BY TELEPHONE. CONTACT MR. RAYMOND PHILLIPS, 177 BUSH LP, SANFORD, FL, 32773, TELEPHONE (407) 665-5647.

UTILITY NOTES

1. 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 PUBLIC OR PRIVATE, WITH FACILITIES IN THE AREA OF CONSTRUCTION ACTIVITIES FOR POSSIBLE CONFLICTS AND COORDINATE ANY ADJUSTMENTS AND/OR RELOCATION. ALL NOTIFICATIONS TO BE MADE ONE WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. (CONTACT SUNSHINE STATE ONE CALL AT 1-800-432-4770).
2. 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 A 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.

<u>UTILITY AGENCY OWNER</u>	<u>PHONE NUMBER</u>
AT&T DISTRIBUTION	(407)-999-2636
CHARTER COMMUNICATIONS	(407)-532-8509
FLORIDA POWER AND LIGHT TRANSMISSION	(561)-904-3617
FLORIDA POWER AND LIGHT DISTRIBUTION	(407)-329-1911
LAKE HARNEY WATER ASSOCIATION	(321)-547-7405

SIGNING AND PAVEMENT MARKING NOTES

1. SIGNING AND PAVEMENT MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST PUBLISHED EDITION.
2. 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.
3. CONFLICTS WITH UNFORSEEN UTILITIES MAY OCCUR DURING SIGN INSTALLATION. FIELD ADJUSTMENTS ARE ACCEPTABLE WITH THE APPROVAL OF THE ENGINEER.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Catherine L. Spiess, PE 3000 Dovera Drive, Suite 200
 PE No. 62501 Oviedo, Florida 32765
 Certificate of Authorization No. 7074 p 407.971.8850

SEMINOLE COUNTY
 ENGINEERING DIVISION

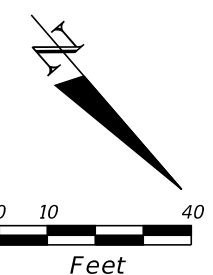
ROAD NO.	COUNTY CIP NO.
WHITCOMB DRIVE	02107099

GENERAL NOTES

SHEET NO.

18

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



BEGIN PAVEMENT CONSTRUCTION
STA. 101+20.00

PARCEL ID: 24-20-32-501-0B01-0000
OWNERS: SLOAN, SONYA M
BLOCK B
LAKE HARNEY SHORES
PLAT BOOK 7, PAGE 77

SIX (6) 34"x53" ERCP WITH MITERED ENDS

STA. 103+13.38
Q CONST. WHITCOMB DRIVE
STA. 200+00.00
Q CONST. SOUTH OUTFALL

BEGIN WOOD FENCE
104+00.00, 47.78' LT.

5' UNPAVED SHOULDER

BEGIN CONSTRUCTION
STA. 101+09.06

PROP. DRAINAGE AND UTILITY EASEMENT

+72.84
43.00' LT.

+10.00
43.00' LT.

+00.00
49.00' LT.

DITCH PAVEMENT
+35.56
43.00' LT.

+35.62
15.00' LT.

+70.38
47.26' LT.

R/W LINE

+72.87
15.00' LT.

CD-200

EXIST. OE AND OTV
(CHARTER)

EXIST. MAILBOX TO
BE RELOCATED
STA. 105+30.00

100

+20.00
10.26' RT.

+30.00
10.00' RT.

EXIST. MAILBOX TO
BE RELOCATED

88° 14' 36"

N 49° 15' 23" W

WHITCOMB DRIVE

PC STA. 104+88.45

EXIST. BT AND BTV (CHARTER)

EXIST. MAILBOX TO
BE RELOCATED

KEY PAD/GATE
CONTROLLER

END DITCH RT
+21.61, 28.44' RT.

BEGIN DITCH RT
+68.85, 28.31' RT.

EXIST. BE
19"x30" ERCP

END CHAIN LINK FENCE
102+34.44, 41.00' RT.

BEGIN CHAIN LINK FENCE
102+46.44, 41.00' RT.

BEGIN DITCH RT
+58.32, 28.57' RT.

END DITCH RT
+72.92, 29.18' RT.

+77.04
40.00' RT.

END CHAIN LINK FENCE
102+77.18, 41.00' RT.

24"x38" ERCP

FOUR (4) 43"x68"
ERCP WITH
MITERED ENDS

PROPOSED 60' WIDE
DRAINAGE EASEMENT

BEGIN DITCH RT
+49.26, 32.04' RT.

24"x38" ERCP

+37.04
40.00' RT.

+37.00
46.00' RT.

PARCEL ID: 24-20-32-501-0A00-0110
OWNER: BURNS, STEPHEN L & NANCY B
A PORTION OF LOT 11 AND ALL OF LOT 12
LAKE HARNEY SHORES
PLAT BOOK 7, PAGE 77

SEE SOUTH OUTFALL PLAN
FOR DETAILS

WETLAND LINE

PROP. DRAINAGE
AND UTILITY
EASEMENT

5' UNPAVED
SHOULDER

BEGIN DITCH RT
+26.86, 32.13' RT.

24"x38" ERCP

END DITCH RT
+83.38, 32.19' RT.

END DITCH RT
+94.75, 32.35' RT.

24"x38" ERCP

PARCEL ID: 24-20-32-501-0A00-0130
OWNER: COUTURE, CAROL & TERRY
LOT 13
LAKE HARNEY SHORES
PLAT BOOK 7, PAGE 77

CURVE DATA CLWHITCOMB1

PI STA. = 109+14.40

Δ = 21° 04' 25" (RT)

D = 2° 30' 07"

T = 425.95

L = 842.28

R = 2,290.00

PC STA. = 104+88.45
PT STA. = 113+30.72
e = NC

PARCEL ID: 24-20-32-501-0A00-0090
OWNER: DORSEY, LEO M & MARY P
PORTIONS OF LOTS 9 & 10
LAKE HARNEY SHORES
PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-010A
OWNER: MC DONALD, DAVID D &
MARIOTTI, MARY E
PORTIONS OF LOTS 10 & 11
LAKE HARNEY SHORES
PLAT BOOK 7, PAGE 77

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Catherine L. Spiess, PE 3000 Dovera Drive, Suite 200
PE No. 62501 Oviedo, Florida 32765
Certificate of Authorization No. 7074 p 407.971.8850

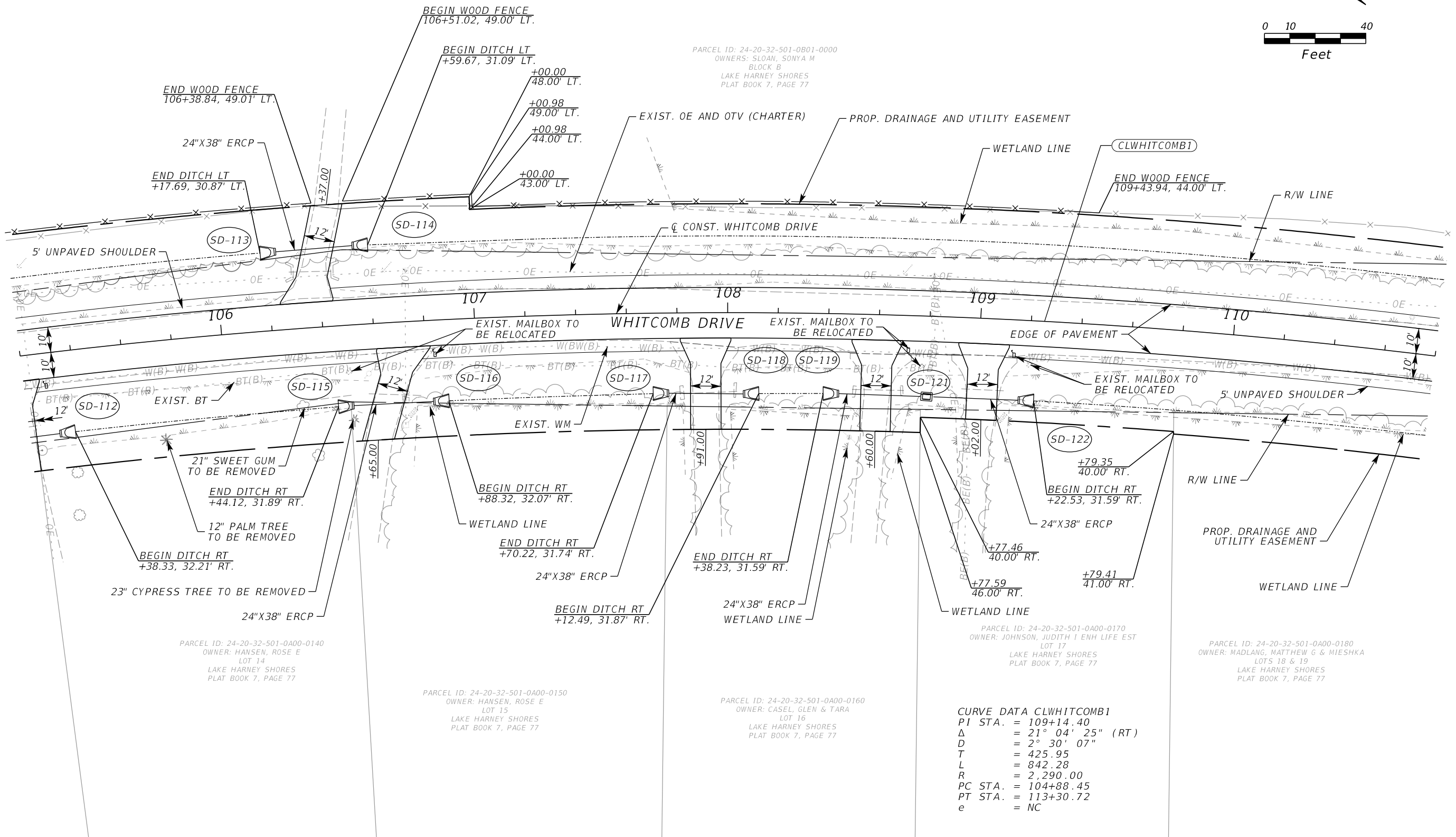
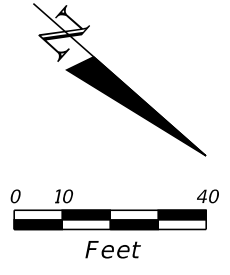
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.
WHITCOMB DRIVE 02107099

PLAN SHEET
WHITCOMB DRIVE

SHEET NO.
19

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



PARCEL ID: 24-20-32-501-0B01-0000
 OWNERS: SLOAN, SONYA M
 BLOCK B
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-0140
 OWNER: HANSEN, ROSE E
 LOT 14
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-0150
 OWNER: HANSEN, ROSE E
 LOT 15
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-0160
 OWNER: CASEL, GLEN & TARA
 LOT 16
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-0170
 OWNER: JOHNSON, JUDITH I ENH LIFE EST
 LOT 17
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-0180
 OWNER: MADLANG, MATTHEW G & MIESHKA
 LOTS 18 & 19
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

CURVE DATA CLWHITCOMB1
 PI STA. = 109+14.40
 Δ = 21° 04' 25" (RT)
 D = 2° 30' 07"
 T = 425.95
 L = 842.28
 R = 2,290.00
 PC STA. = 104+88.45
 PT STA. = 113+30.72
 e = NC

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

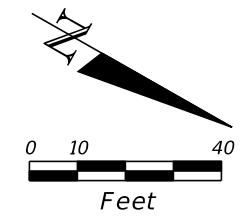
Inwood consulting engineers
 Catherine L. Spiess, PE 3000 Dovera Drive, Suite 200
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD NO. WHITCOMB DRIVE COUNTY CIP NO. 02107099

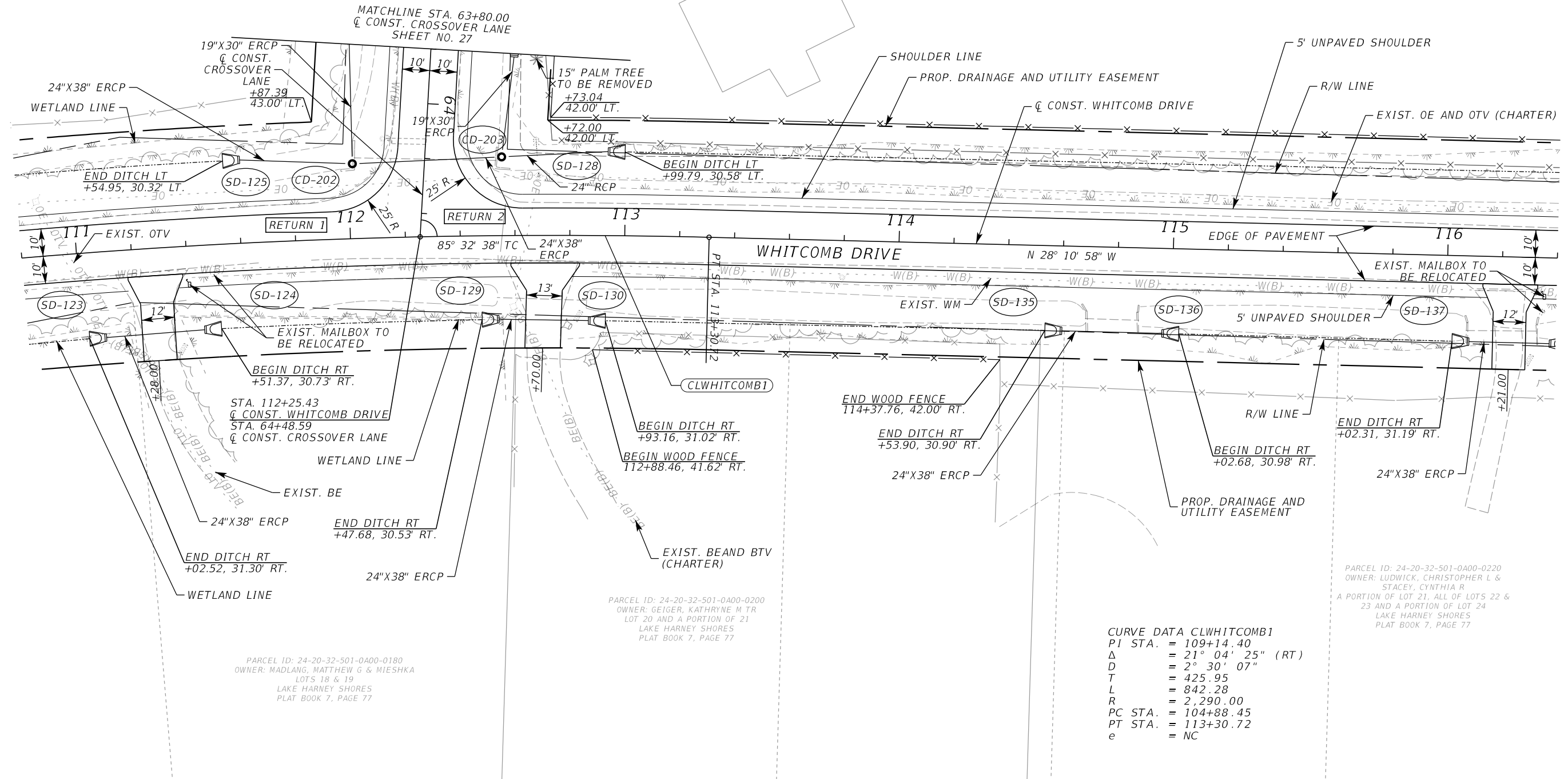
PLAN SHEET
WHITCOMB DRIVE
 SHEET NO. 20

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RETURN NO.	PC			LOW POINT			PT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
1	112+93.56	10.00' LT.	8.90	110+10.27	16.58' LT	8.60	112+18.10	32.81' LT.	8.90
2	112+38.16	36.70' LT	8.90	112+44.63	17.96' LT	8.60	112+62.71	10.00' LT	8.90



PARCEL ID: 24-20-32-501-0C00-0000
 OWNERS: CLARK, RANDOLPH P & VIRGINIA W
 BLOCK C
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77



PARCEL ID: 24-20-32-501-0A00-0180
 OWNER: MADLANG, MATTHEW G & MIESHKA
 LOTS 18 & 19
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-0200
 OWNER: GEIGER, KATHRYNE M TR
 LOT 20 AND A PORTION OF 21
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-0220
 OWNER: LUDWICK, CHRISTOPHER L &
 STACEY, CYNTHIA R
 A PORTION OF LOT 21, ALL OF LOTS 22 &
 23 AND A PORTION OF LOT 24
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

CURVE DATA CLWHITCOMB1
 PI STA. = 109+14.40
 Δ = 21° 04' 25" (RT)
 D = 2° 30' 07"
 T = 425.95
 L = 842.28
 R = 2,290.00
 PC STA. = 104+88.45
 PT STA. = 113+30.72
 e = NC

REVISIONS					
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD NO. COUNTY CIP NO.
 WHITCOMB DRIVE 02107099

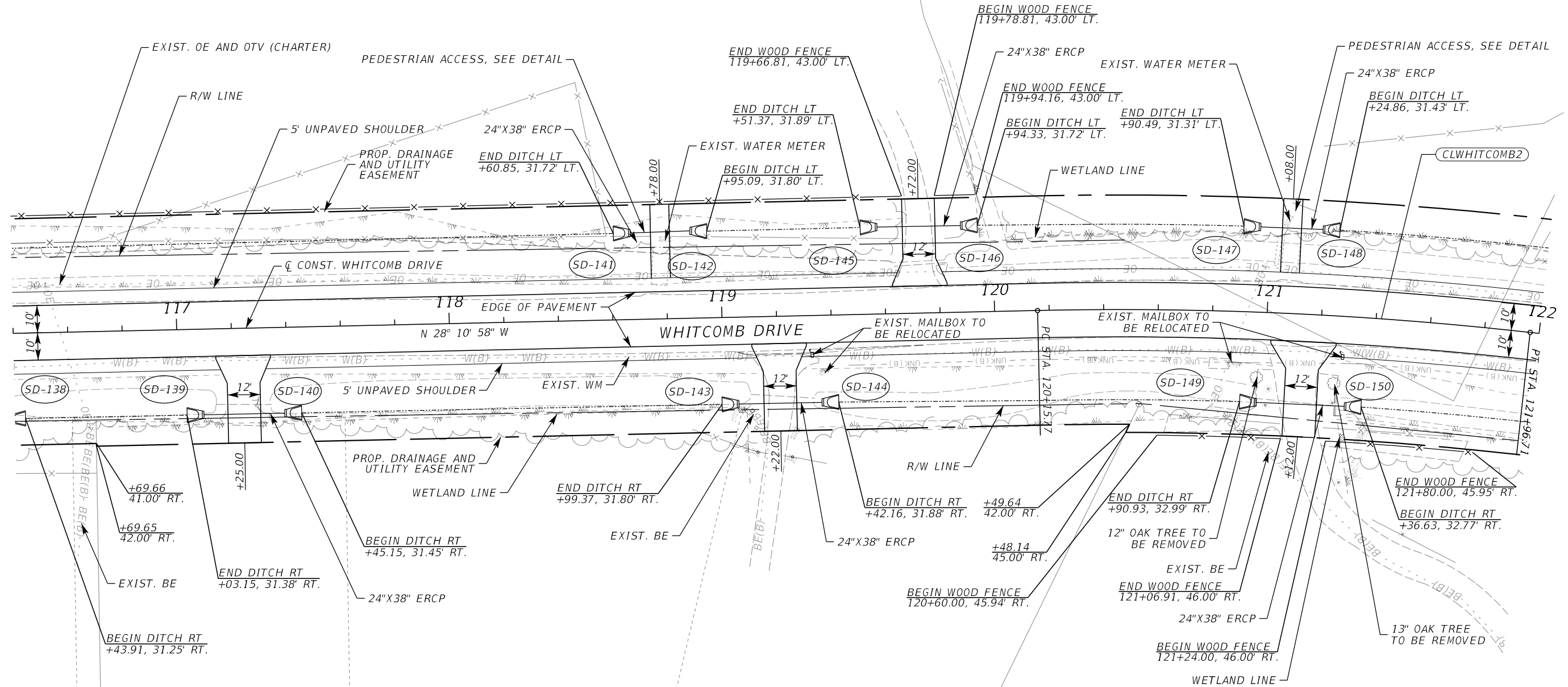
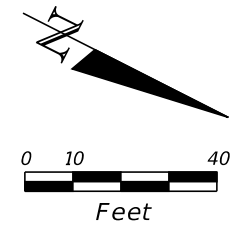
PLAN SHEET
WHITCOMB DRIVE

SHEET NO.
 21

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

PARCEL ID: 24-20-32-501-0C00-0000
 OWNERS: CLARK, RANDOLPH P & VIRGINIA W
 BLOCK C
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 23-20-32-300-002A-0000
 OWNERS: FOUR AMAZONS CORP



PARCEL ID: 24-20-32-501-0A00-0240
 OWNER: CARTER, JOHN R
 A PORTION OF LOT 24
 AND ALL OF LOT 25
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-501-0A00-0260
 OWNER: CARTER, JOHN R
 LOT 26
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

PARCEL ID: 24-20-32-300-0030-0000
 OWNER: BAUER, TIMOTHY J & PATRICIA L

CURVE DATA CLWHITCOMB2
 PI STA. = 121+06.37
 Δ = 7° 37' 45" (RT)
 D = 4° 12' 59"
 T = 90.61
 L = 180.94
 R = 1,358.92
 PC STA. = 120+15.77
 PT STA. = 121+96.71
 e = NC

REVISIONS					
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SEMINOLE COUNTY
 ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

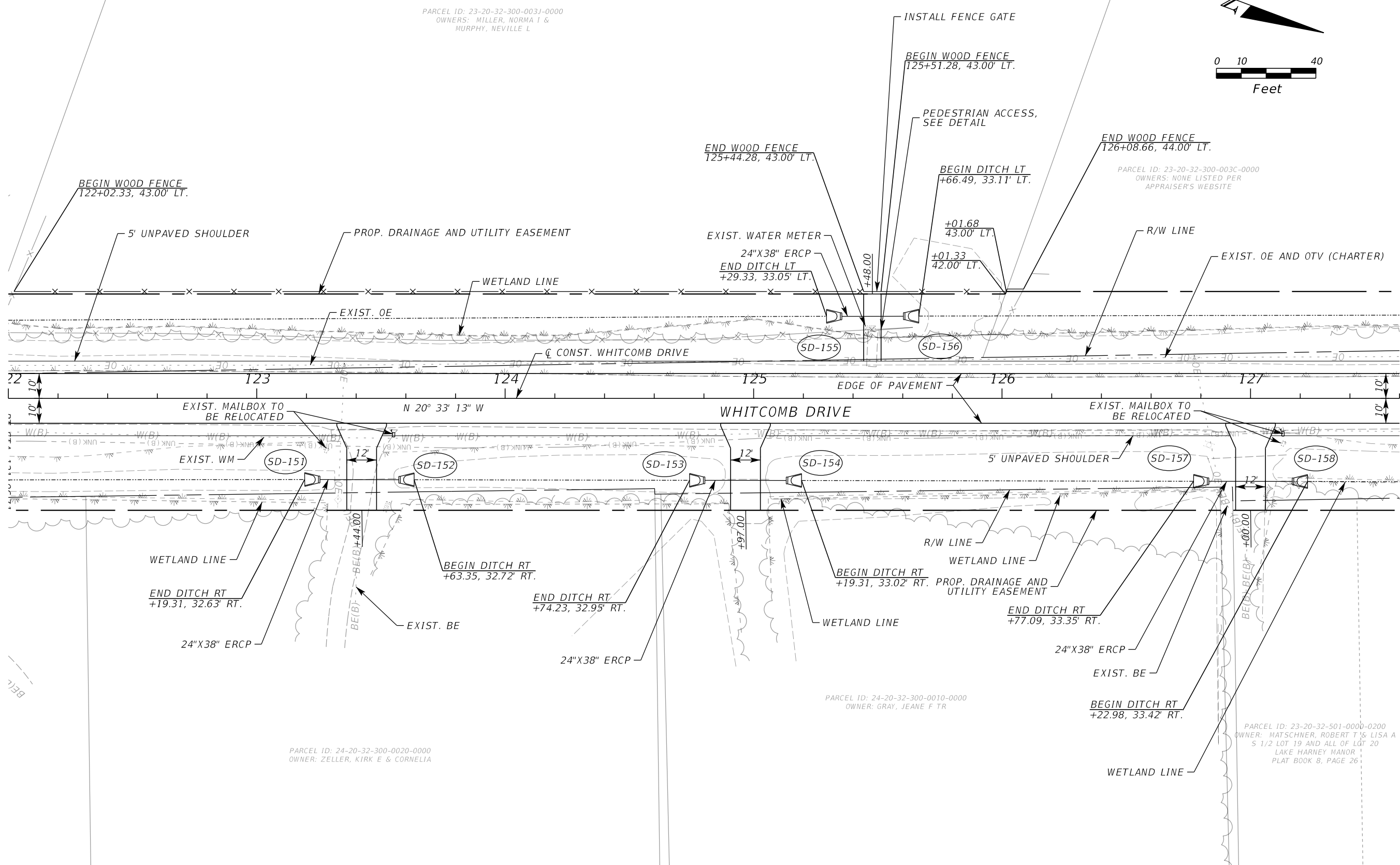
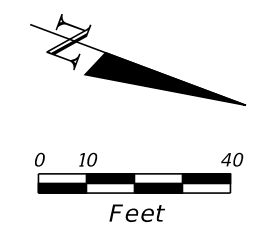
WHITCOMB DRIVE 02107099

PLAN SHEET
WHITCOMB DRIVE

SHEET NO.
 22

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PARCEL ID: 23-20-32-300-0031-0000
 OWNERS: MILLER, NORMA I &
 MURPHY, NEVILLE L



PARCEL ID: 23-20-32-300-003C-0000
 OWNERS: NONE LISTED PER
 APPRAISER'S WEBSITE

PARCEL ID: 24-20-32-300-0020-0000
 OWNER: ZELLER, KIRK E & CORNELIA

PARCEL ID: 24-20-32-300-0010-0000
 OWNER: GRAY, JEANE F TR

PARCEL ID: 23-20-32-501-0000-0200
 OWNER: MATSCHNER, ROBERT T & LISA A
 S 1/2 LOT 19 AND ALL OF L&T 20
 LAKE HARNEY MANOR
 PLAT BOOK 8, PAGE 26

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SEMINOLE COUNTY
 ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

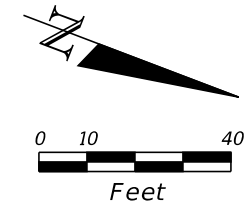
WHITCOMB DRIVE 02107099

PLAN SHEET
WHITCOMB DRIVE

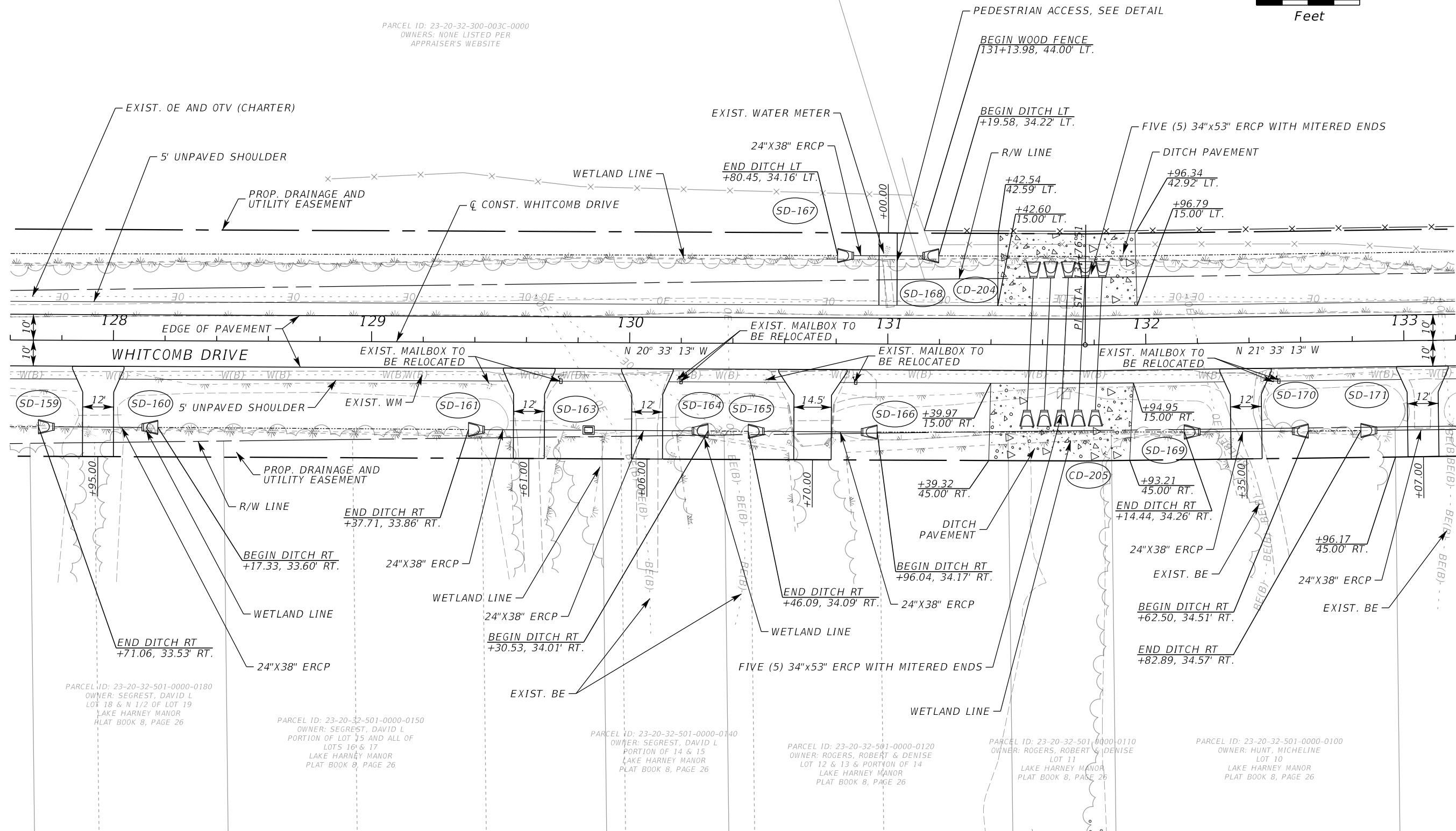
SHEET NO.
 23

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

PARCEL ID: 23-20-32-300-003B-0000
OWNERS: STUART, KEELAN E



PARCEL ID: 23-20-32-300-003C-0000
OWNERS: NONE LISTED PER
APPRAISER'S WEBSITE



PARCEL ID: 23-20-32-501-0000-0180
OWNER: SEGREST, DAVID L
LOT 18 & N 1/2 OF LOT 19
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0150
OWNER: SEGREST, DAVID L
PORTION OF LOT 15 AND ALL OF
LOTS 16 & 17
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0140
OWNER: SEGREST, DAVID L
PORTION OF 14 & 15
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0120
OWNER: ROGERS, ROBERT & DENISE
LOT 12 & 13 & PORTION OF 14
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0110
OWNER: ROGERS, ROBERT & DENISE
LOT 11
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0100
OWNER: HUNT, MICHELINE
LOT 10
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



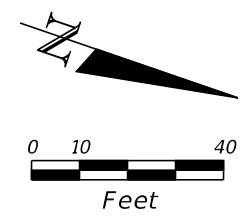
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PE No. 62501 Oviedo, Florida 32765
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SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.
WHITCOMB DRIVE 02107099

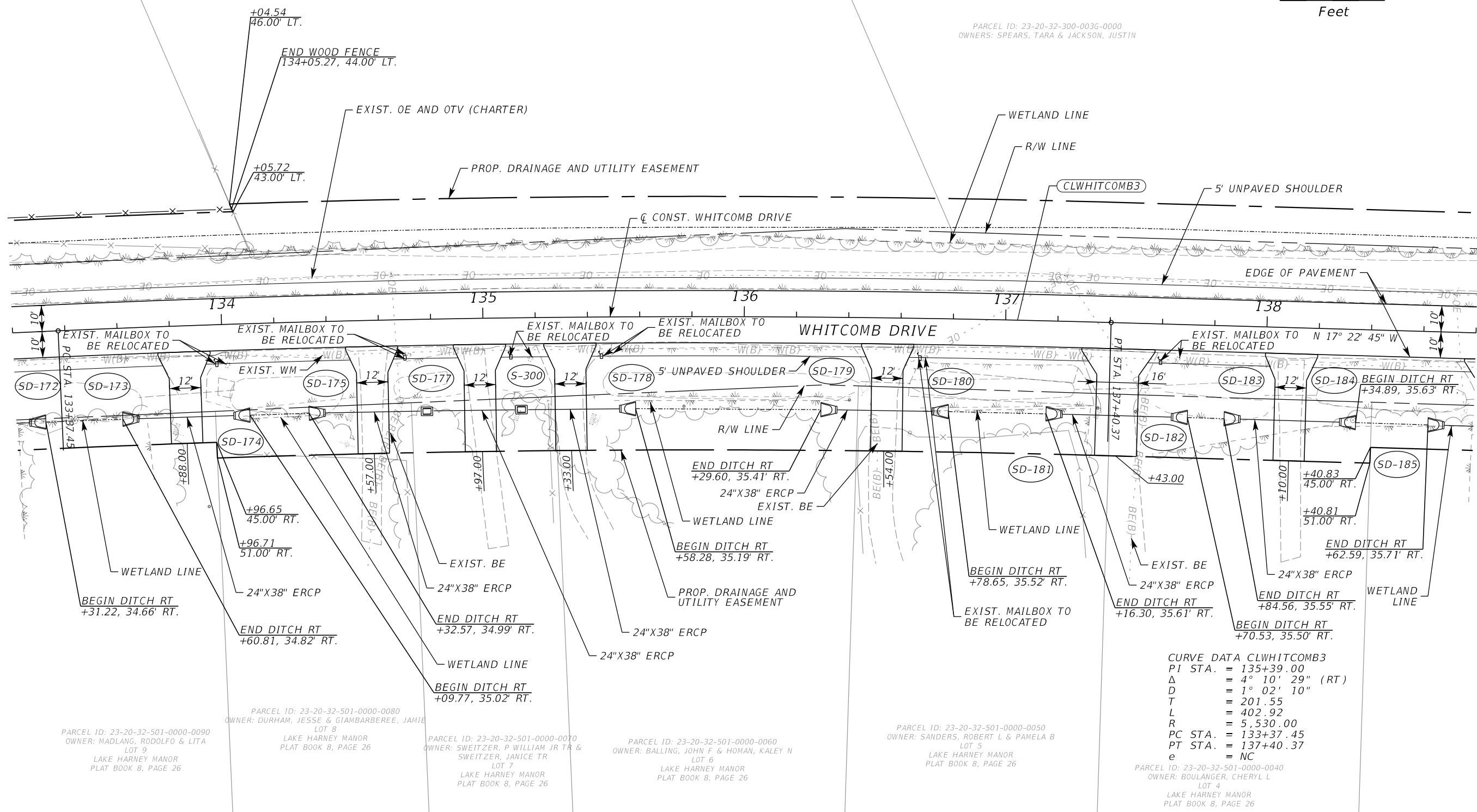
PLAN SHEET
WHITCOMB DRIVE

SHEET NO.
24



PARCEL ID: 23-20-32-300-003F-0000
OWNERS: HULL, NICHOLAS B & TERILYN R

PARCEL ID: 23-20-32-300-003G-0000
OWNERS: SPEARS, TARA & JACKSON, JUSTIN



CURVE DATA CLWHITCOMB3
 P1 STA. = 135+39.00
 Δ = 4° 10' 29" (RT)
 D = 1° 02' 10"
 T = 201.55
 L = 402.92
 R = 5,530.00
 PC STA. = 133+37.45
 PT STA. = 137+40.37
 e = NC

PARCEL ID: 23-20-32-501-0000-0090
OWNER: MADLANG, RODOLFO & LITA
LOT 9
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0080
OWNER: DURHAM, JESSE & GIAMBARBEREE, JAMIE
LOT 8
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0070
OWNER: SWEITZER, P WILLIAM JR TR & SWEITZER, JAMICE TR
LOT 7
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0060
OWNER: BALLING, JOHN F & HOMAN, KALEY N
LOT 6
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0050
OWNER: SANDERS, ROBERT L & PAMELA B
LOT 5
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0040
OWNER: BOULANGER, CHERYL L
LOT 4
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE 3000 Dovera Drive, Suite 200
PE No. 62501 Oviedo, Florida 32765
Certificate of Authorization No. 7074 p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

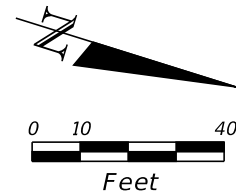
WHITCOMB DRIVE 02107099

PLAN SHEET
WHITCOMB DRIVE

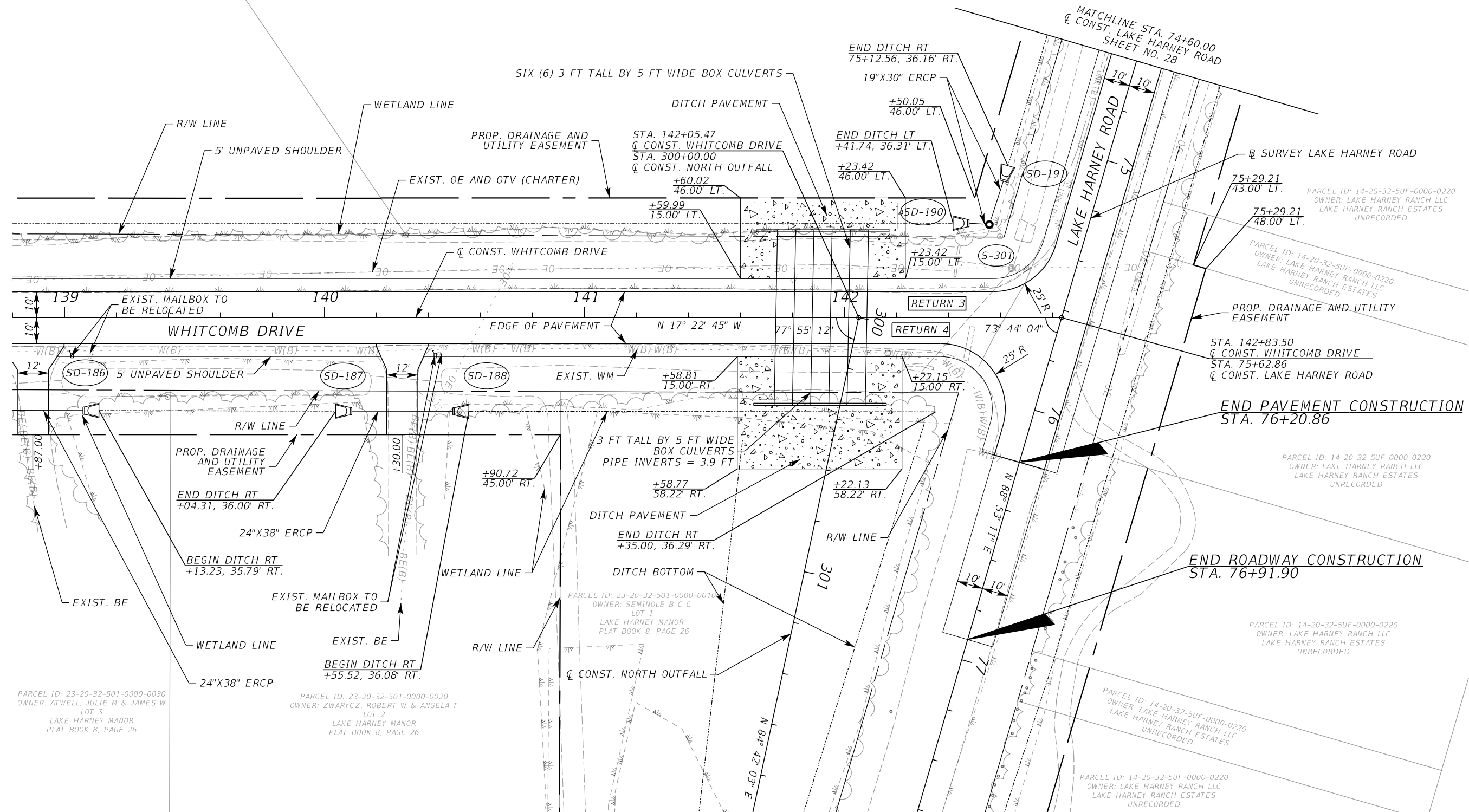
SHEET NO.
25

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RETURN NO.	PC			LOW POINT			PT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
3	142+57.25	10.00' LT.	8.90	142+72.25	15.00' LT	8.60	142+81.25	28.00' LT	8.90
4	142+36.83	10.00' RT	8.90	142+56.83	20.00' RT	8.60	142+60.83	42.00' RT	8.90



PARCEL ID: 23-20-32-300-003D-0000
OWNER: PRIME, ROUSSEL



PARCEL ID: 23-20-32-501-0000-0030
OWNER: ATWELL, JULIE M & JAMES W
LOT 3
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0020
OWNER: ZWIARYCZ, ROBERT W & ANGELA T
LOT 2
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 23-20-32-501-0000-0010
OWNER: SEMINOLE B C C
LOT 1
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

PARCEL ID: 14-20-32-501-0000-0220
OWNER: LAKE HARNEY RANCH LLC
LAKE HARNEY RANCH ESTATES
UNRECORDED

PARCEL ID: 14-20-32-501-0000-0220
OWNER: LAKE HARNEY RANCH LLC
LAKE HARNEY RANCH ESTATES
UNRECORDED

PARCEL ID: 14-20-32-501-0000-0220
OWNER: LAKE HARNEY RANCH LLC
LAKE HARNEY RANCH ESTATES
UNRECORDED

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE 3000 Dovera Drive, Suite 200
PE No. 62501 Oviedo, Florida 32765
Certificate of Authorization No. 7074 p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

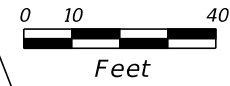
WHITCOMB DRIVE 02107099

PLAN SHEET
WHITCOMB DRIVE

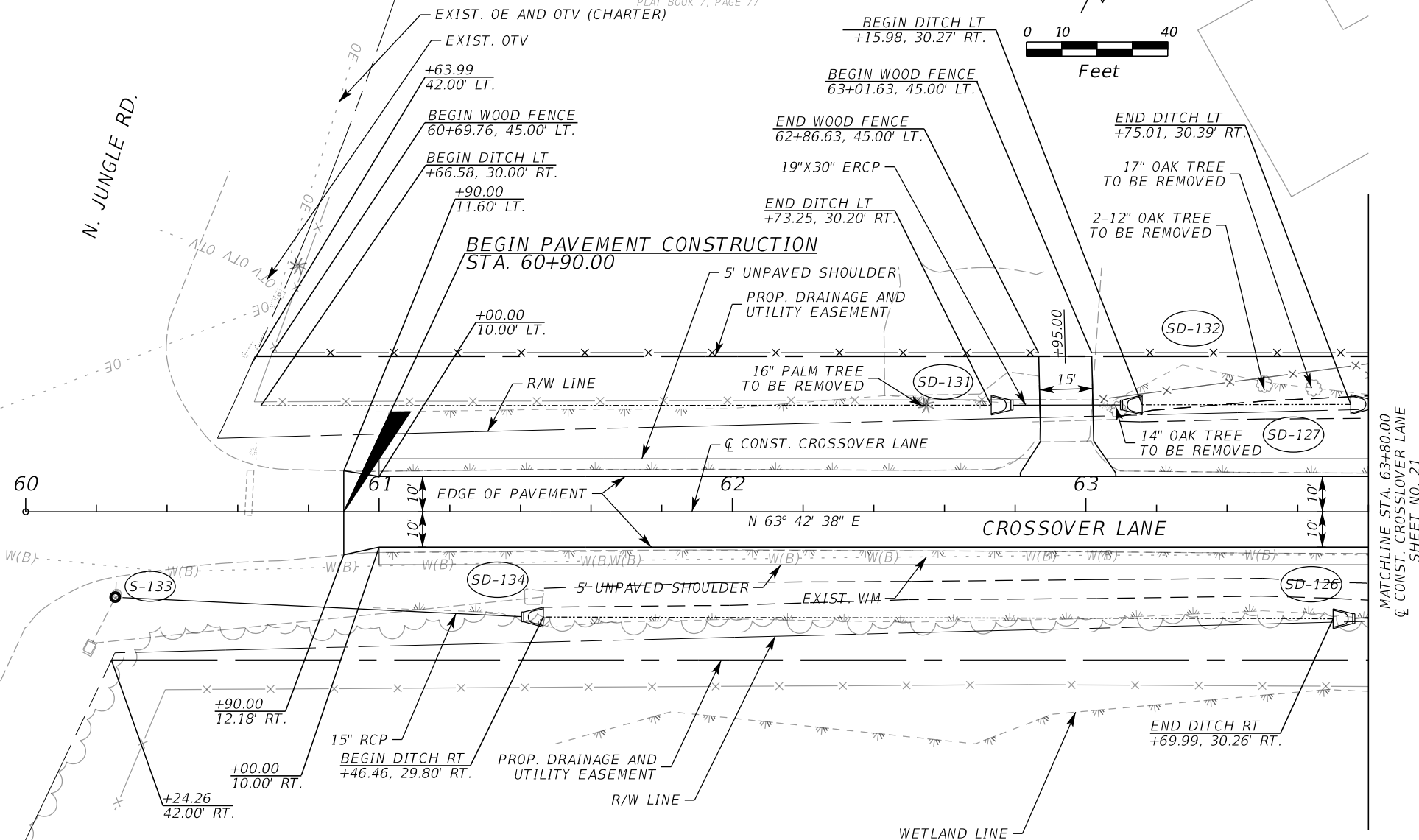
SHEET NO.
26

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

PARCEL ID: 24-20-32-501-0C00-0000
 OWNERS: CLARK, RANDOLPH P & VIRGINIA W
 BLOCK C
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77



N. JUNGLE RD.



PARCEL ID: 24-20-32-501-0B01-0000
 OWNERS: SLOAN, SONYA M
 BLOCK B
 LAKE HARNEY SHORES
 PLAT BOOK 7, PAGE 77

MATCHLINE STA. 63+80.00
 & CONST. CROSSOVER LANE
 SHEET NO. 21

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

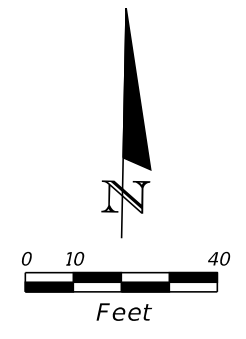
Inwood
 consulting engineers
 Catherine L. Spiess, PE 3000 Dovera Drive, Suite 200
 PE No. 62501 Oviedo, Florida 32765
 Certificate of Authorization No. 7074 p 407.971.8850

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD NO. COUNTY CIP NO.
 WHITCOMB DRIVE 02107099

PLAN SHEET
CROSSOVER LANE

SHEET NO.
 27

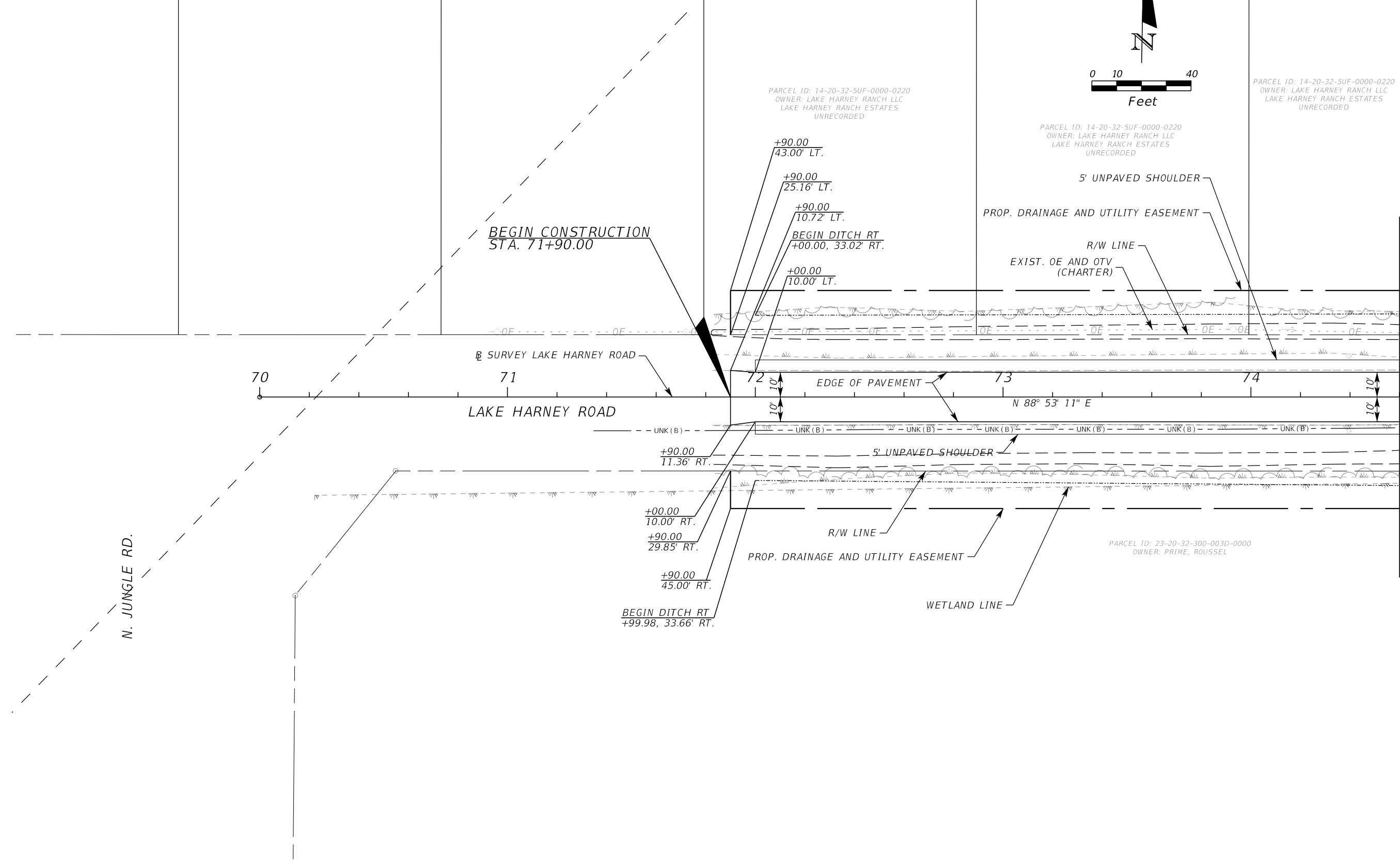
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PARCEL ID: 14-20-32-5UF-0000-0220
 OWNER: LAKE HARNEY RANCH LLC
 LAKE HARNEY RANCH ESTATES
 UNRECORDED

PARCEL ID: 14-20-32-5UF-0000-0220
 OWNER: LAKE HARNEY RANCH LLC
 LAKE HARNEY RANCH ESTATES
 UNRECORDED

PARCEL ID: 14-20-32-5UF-0000-0220
 OWNER: LAKE HARNEY RANCH LLC
 LAKE HARNEY RANCH ESTATES
 UNRECORDED



N. JUNGLE RD.

MATCHLINE STA. 74+60.00
 & CONST. LAKE HARNEY ROAD
 SHEET NO. 26

PARCEL ID: 23-20-32-300-003D-0000
 OWNER: PRIME, ROUSSEL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
 consulting engineers

Catherine L. Spiess, PE
 PE No. 62501
 Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
 Oviedo, Florida 32765
 p 407.971.8850

SEMINOLE COUNTY
 ENGINEERING DIVISION

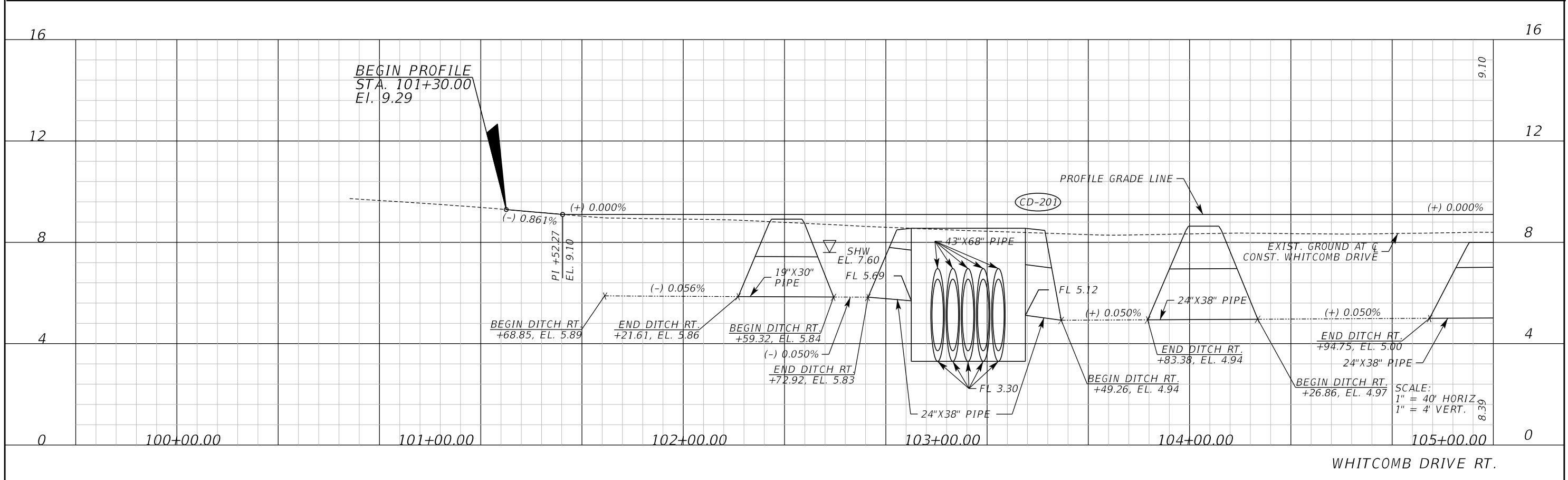
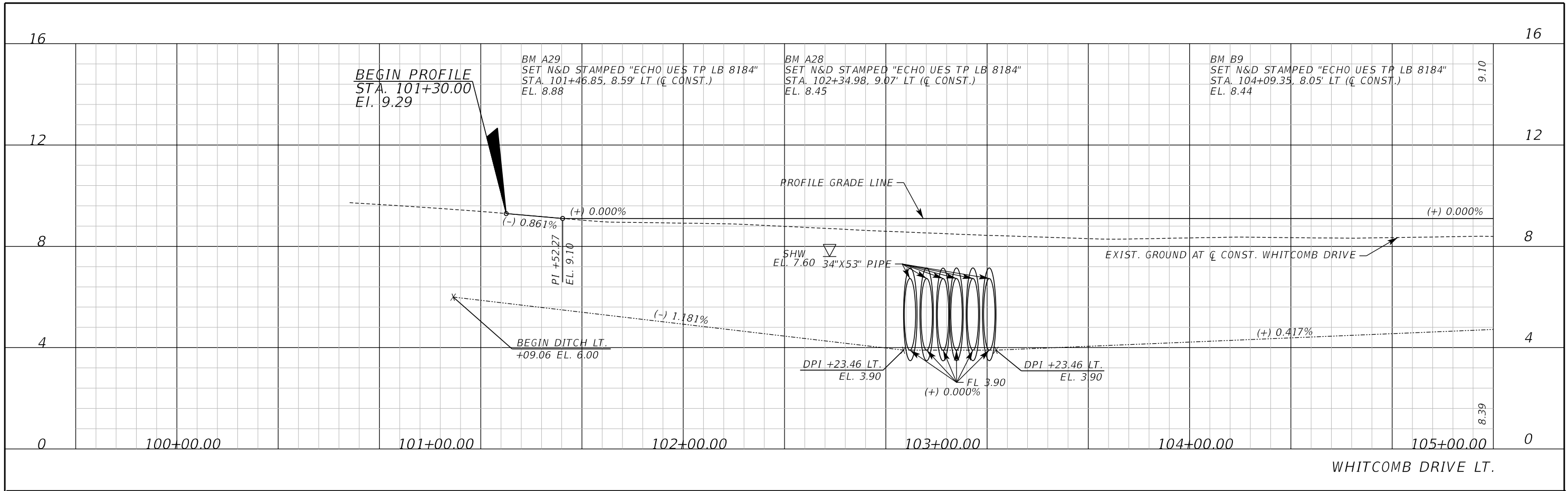
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099


PLAN SHEET
LAKE HARNEY ROAD

SHEET NO.
 28

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



REVISIONS		DATE	DESCRIPTION
DATE	DESCRIPTION		



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PE No. 62501 Oviedo, Florida 32765
Certificate of Authorization No. 7074 p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

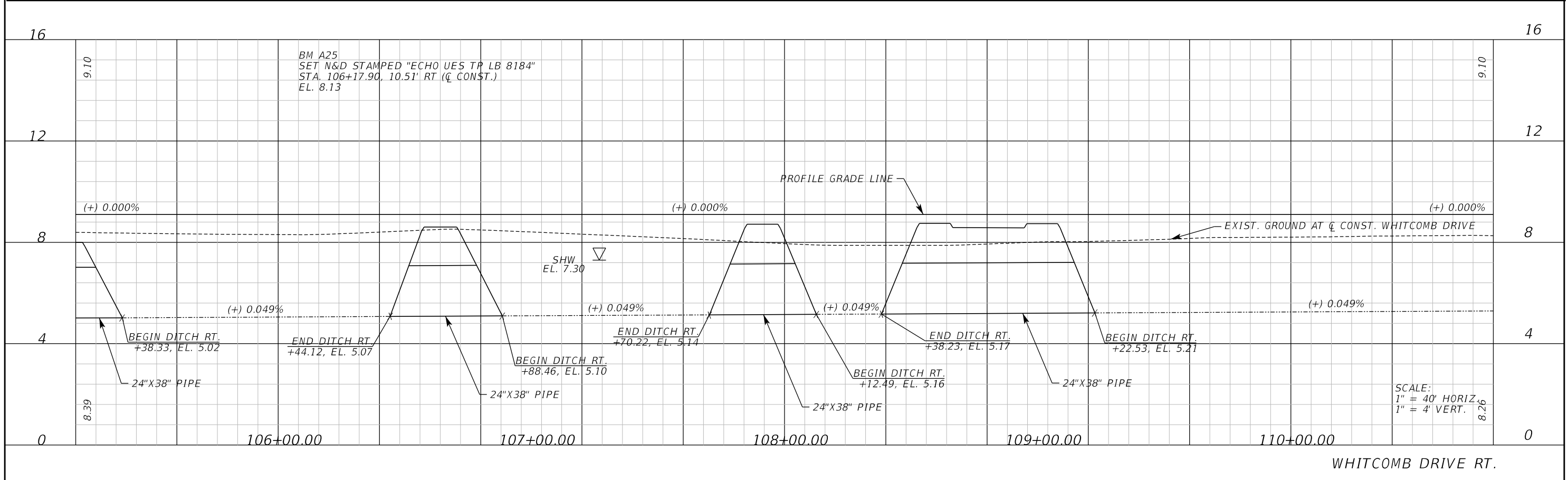
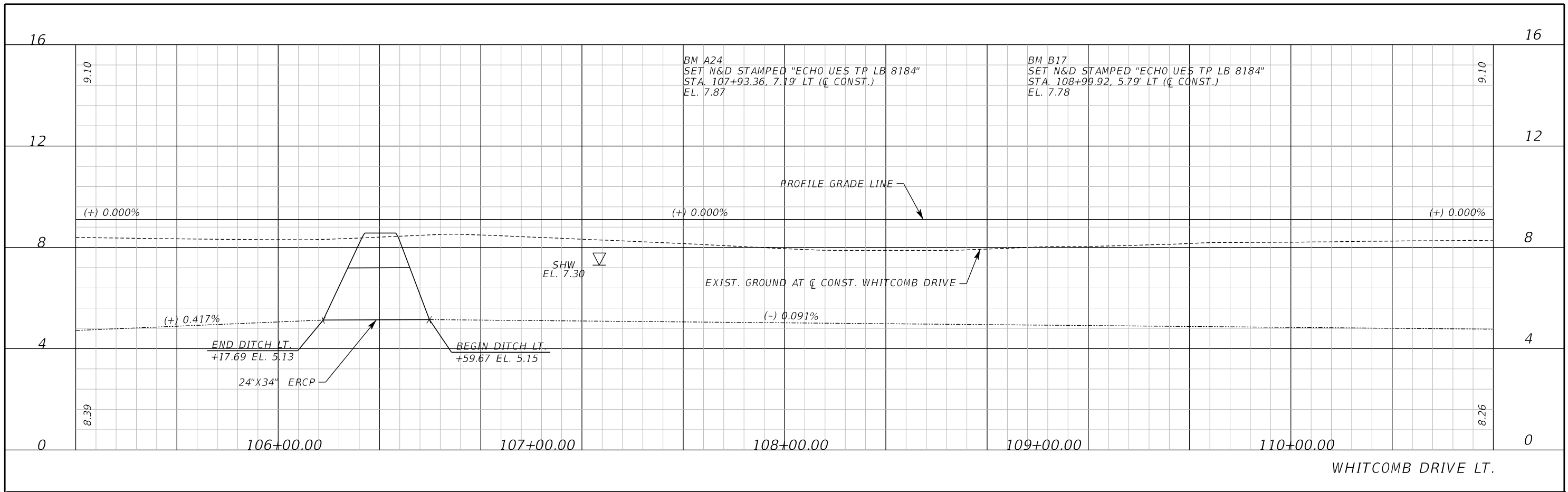
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

PROFILE SHEET
WHITCOMB DRIVE

SHEET NO.
29

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

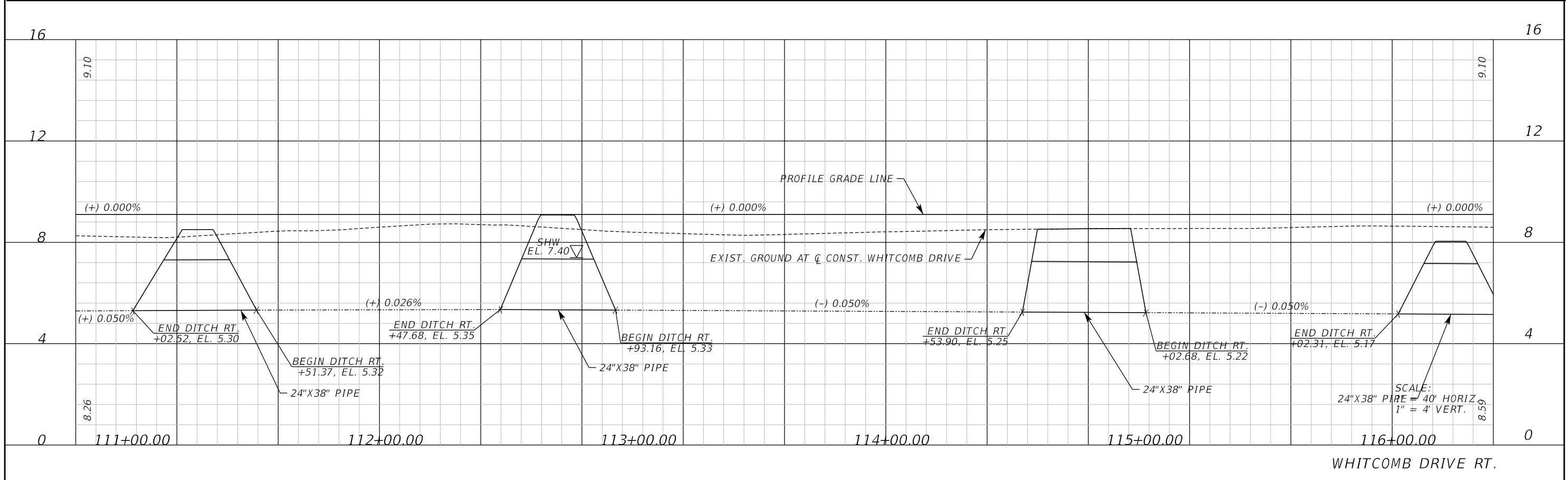
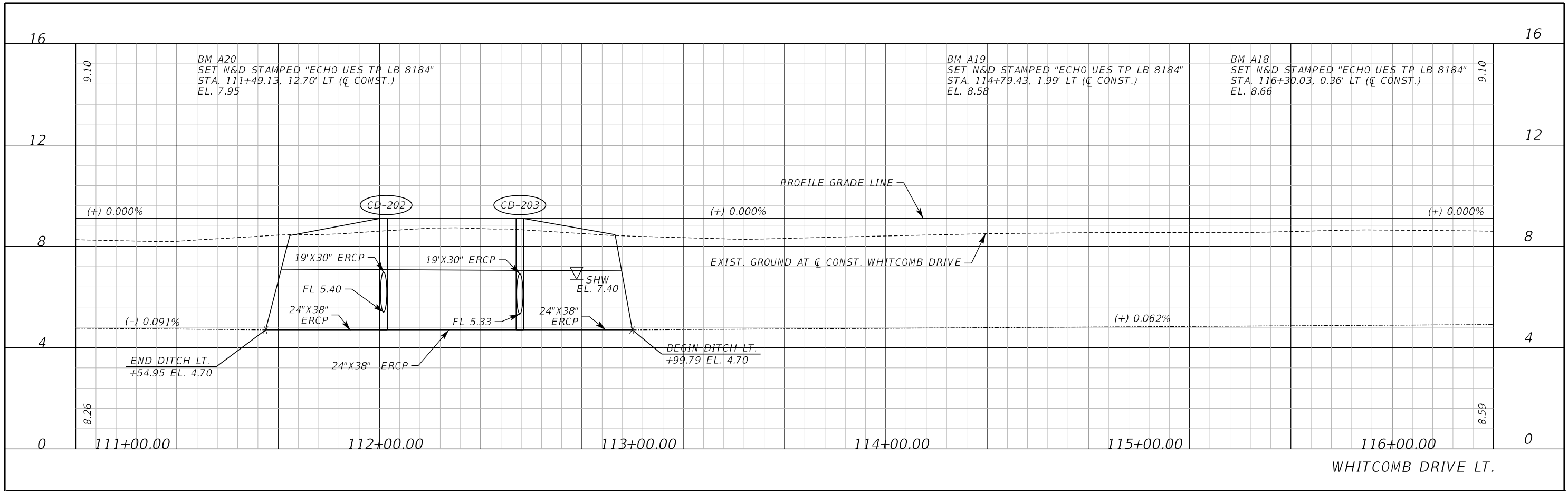
Inwood
consulting engineers
Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074
3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

PROFILE SHEET
WHITCOMB DRIVE

SHEET NO. 30

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DATE	DESCRIPTION

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 PE No. 62501
 Certificate of Authorization No. 7074

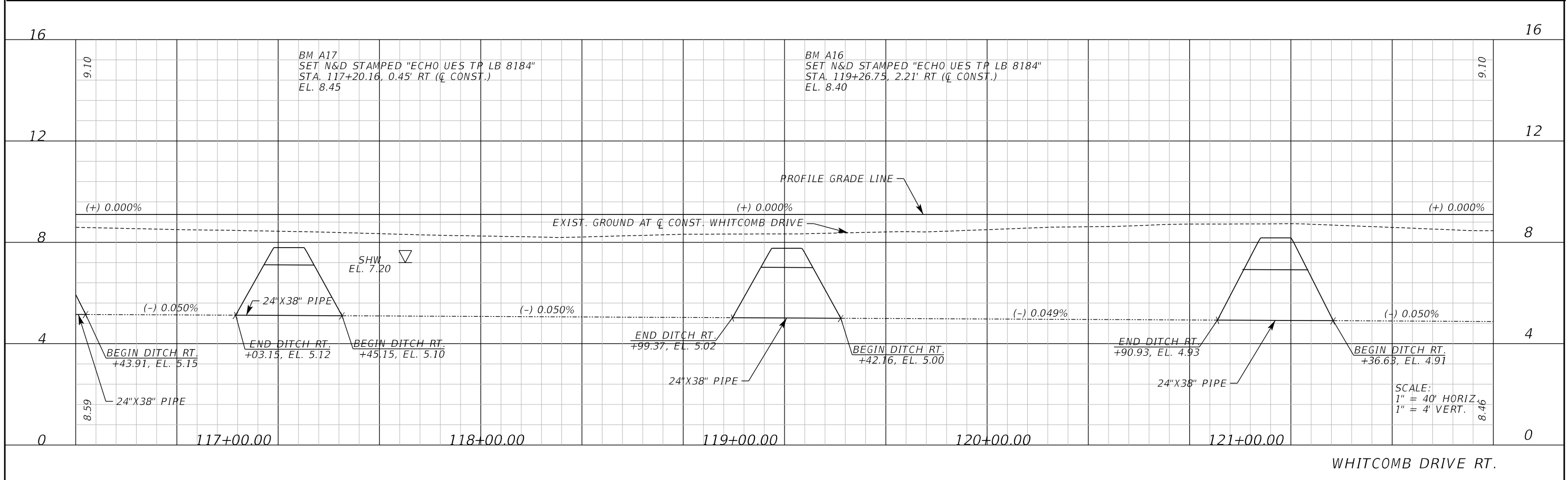
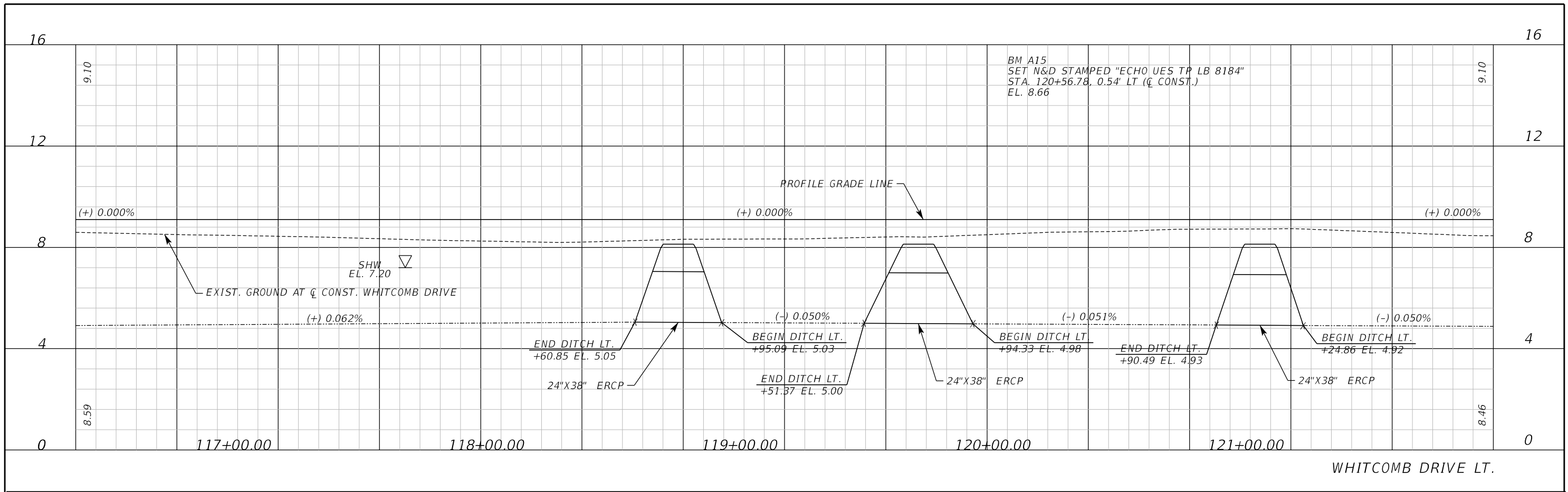
3000 Dovera Drive, Suite 200
 Oviedo, Florida 32765
 p 407.971.8850

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD NO. WHITCOMB DRIVE
 COUNTY CIP NO. 02107099

PROFILE SHEET
WHITCOMB DRIVE

SHEET NO. 31

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

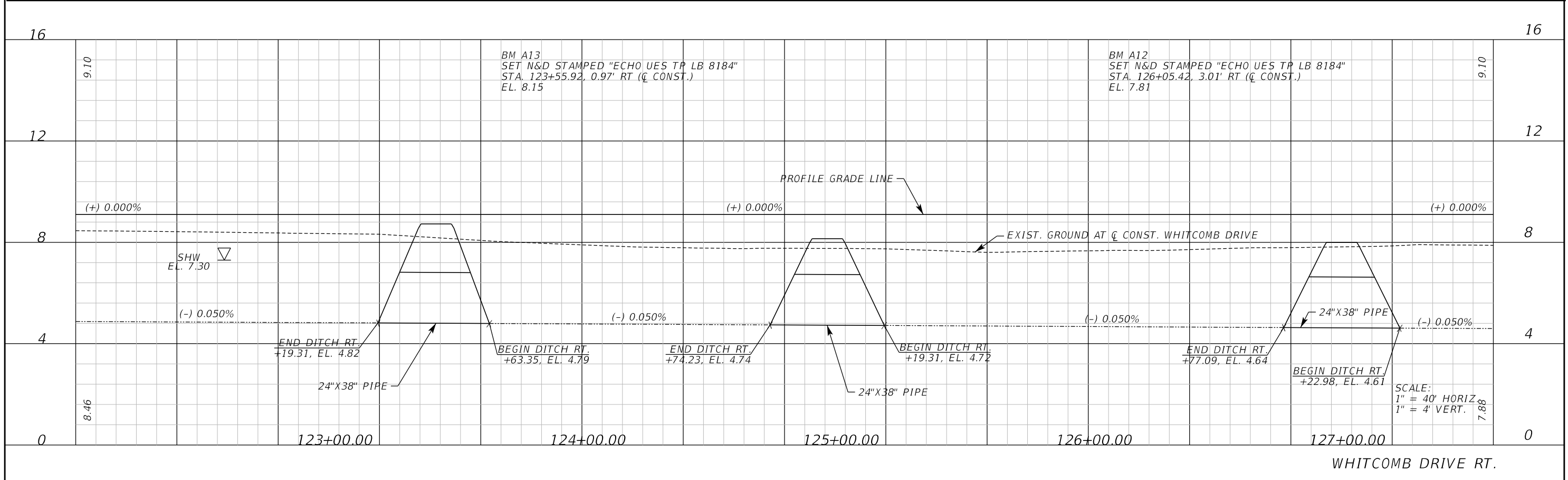
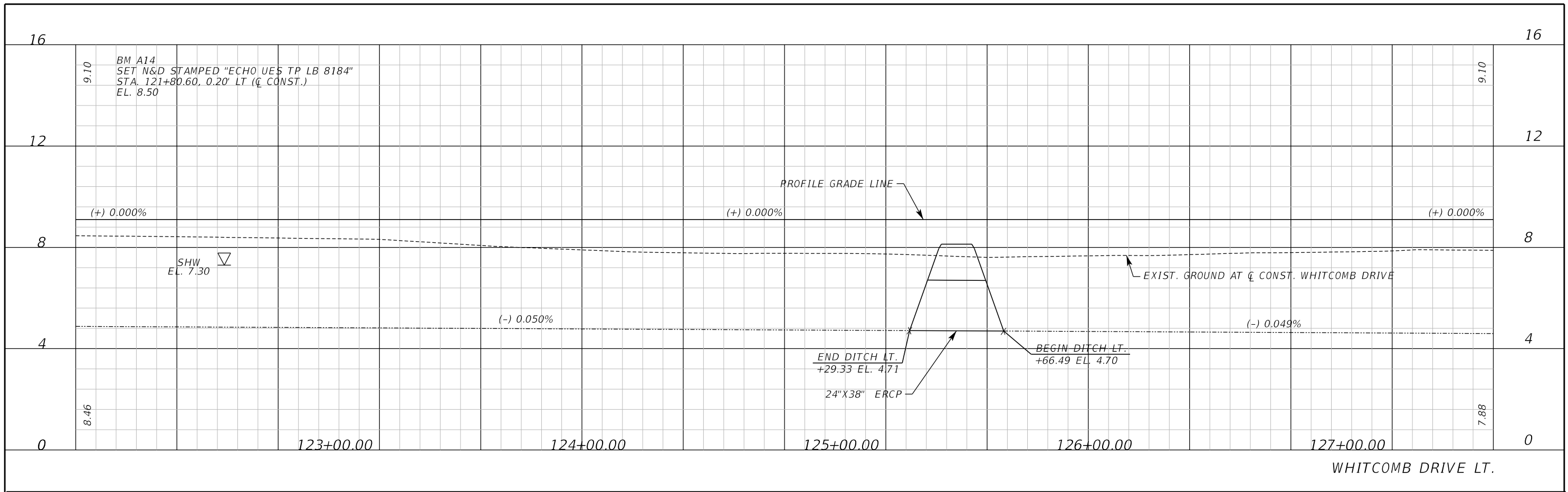
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE COUNTY CIP NO. 02107099

PROFILE SHEET
WHITCOMB DRIVE

SHEET NO.
32

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PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

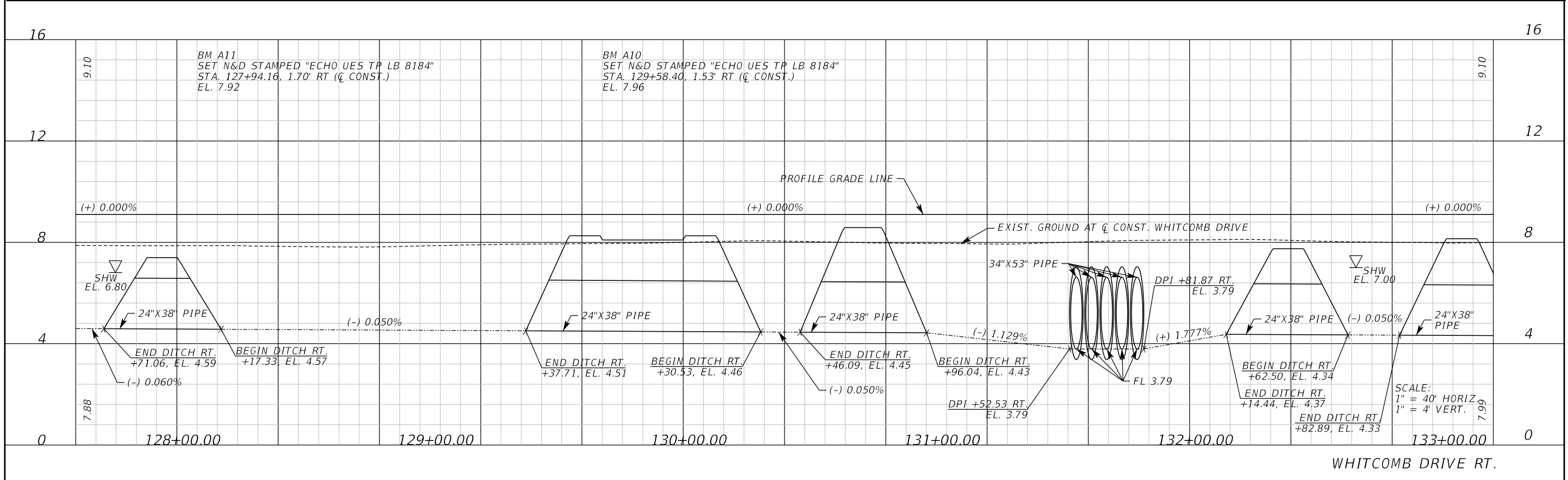
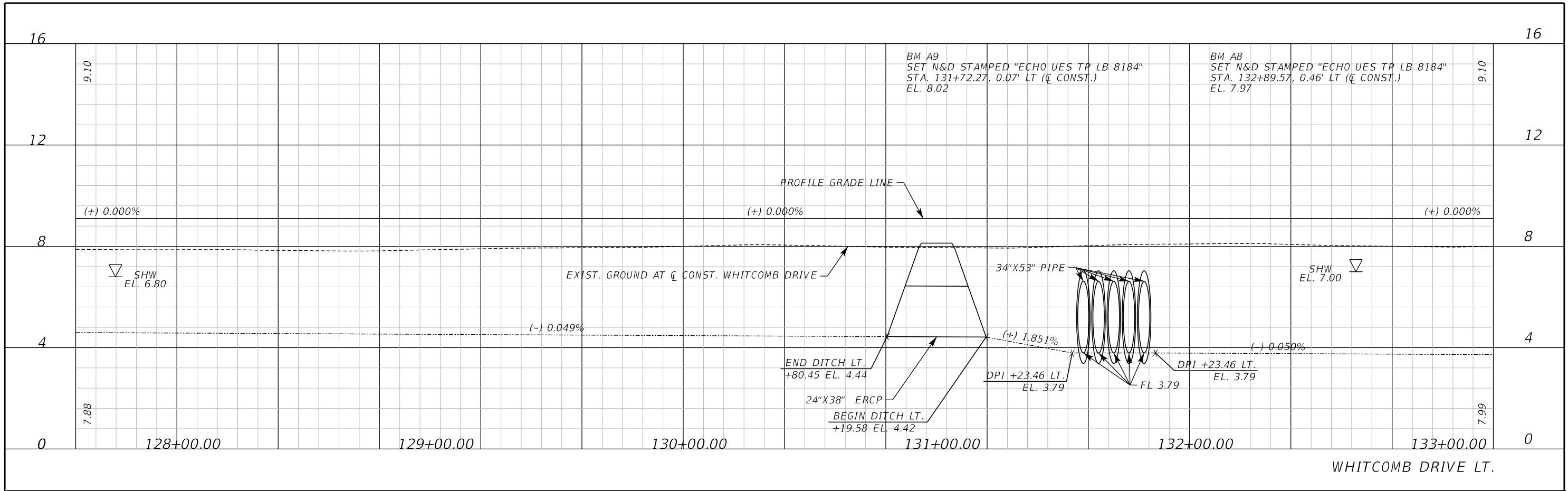
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WHITCOMB DRIVE 02107099

PROFILE SHEET
WHITCOMB DRIVE

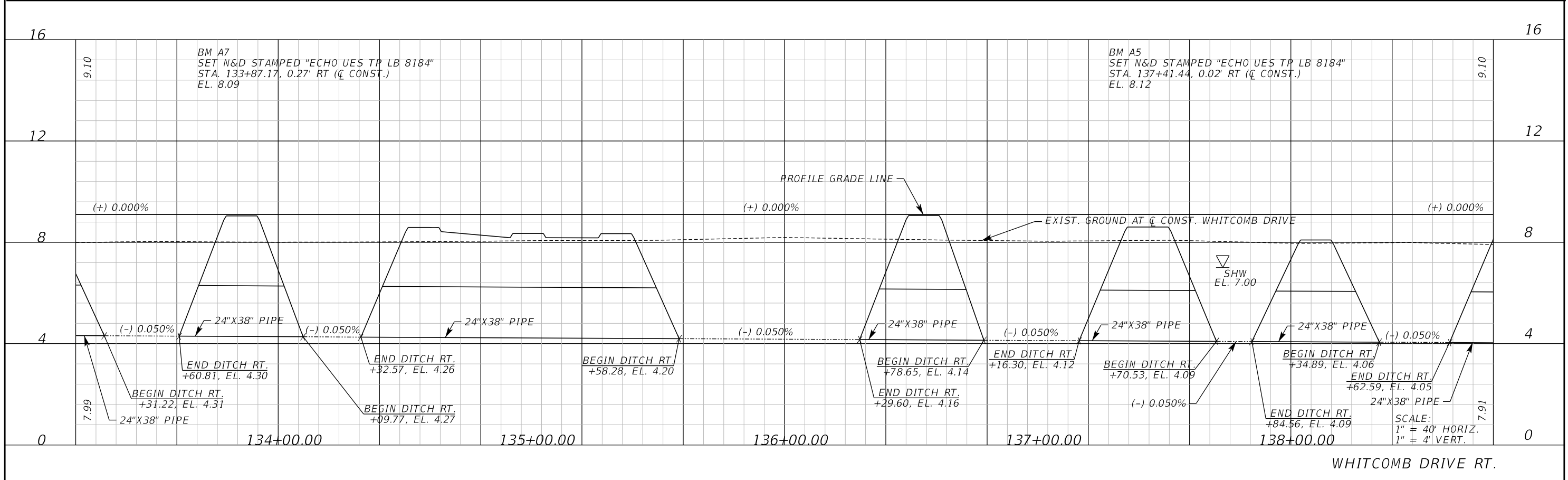
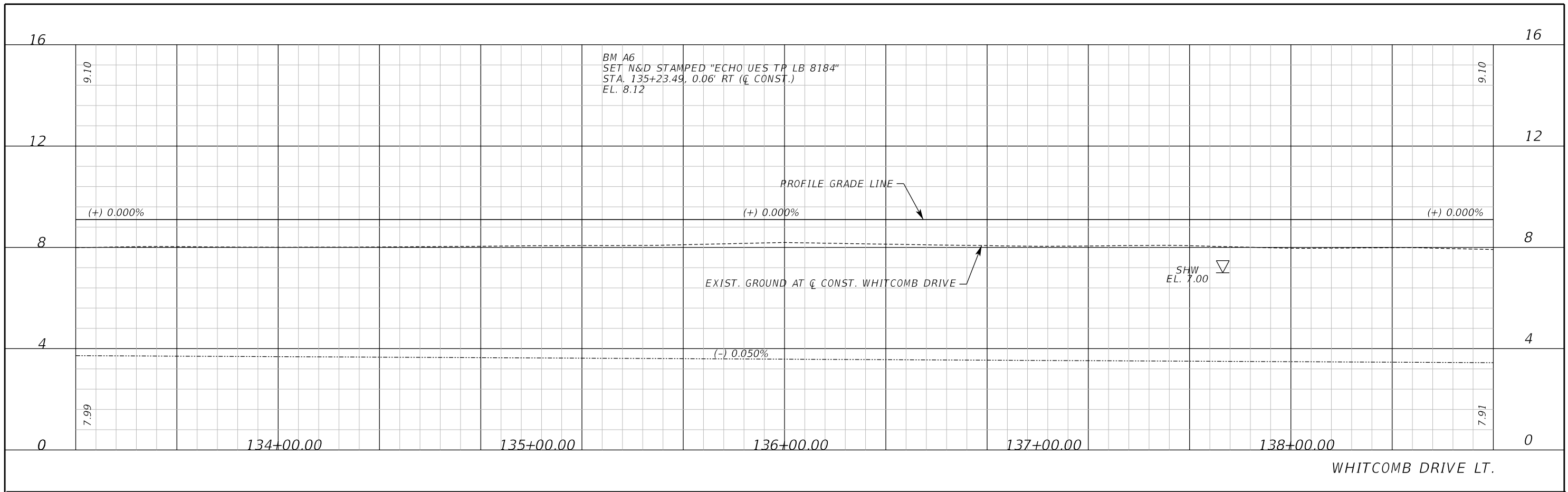
SHEET NO.
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REVISIONS		DATE	DESCRIPTION		SEMINOLE COUNTY ENGINEERING DIVISION		PROFILE SHEET WHITCOMB DRIVE	SHEET NO. 34
DATE	DESCRIPTION				ROAD NO.	COUNTY CIP NO.		
				Catherine L. Spiess, PE PE No. 62501 Certificate of Authorization No. 7074	3000 Dovera Drive, Suite 200 Oviedo, Florida 32765 p 407.971.8850	WHITCOMB DRIVE	02107099	

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DATE	DESCRIPTION

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consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

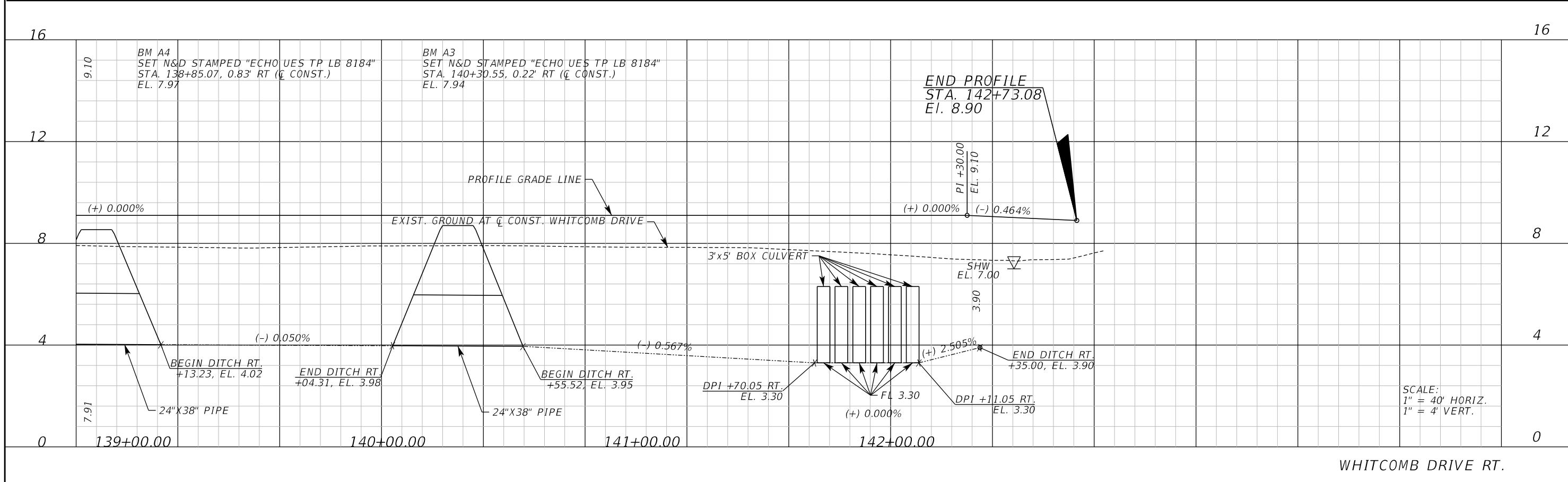
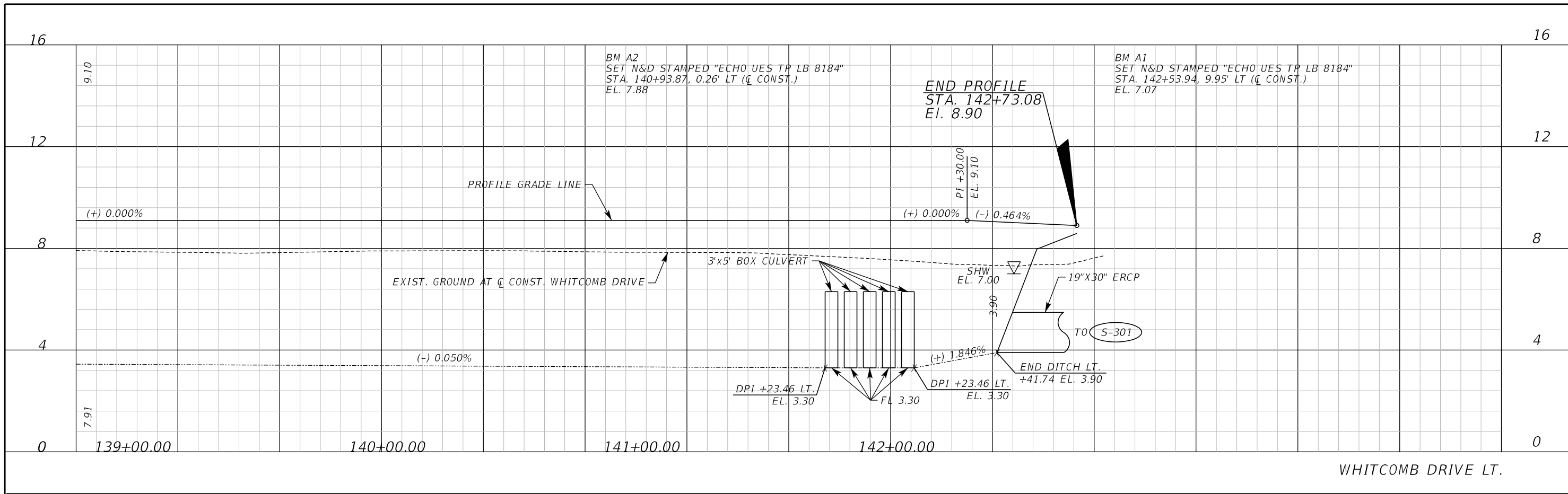
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

PROFILE SHEET
WHITCOMB DRIVE

SHEET NO.
35

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REVISIONS		DATE	DESCRIPTION
DATE	DESCRIPTION		

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consulting engineers

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PE No. 62501 Oviedo, Florida 32765
Certificate of Authorization No. 7074 p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

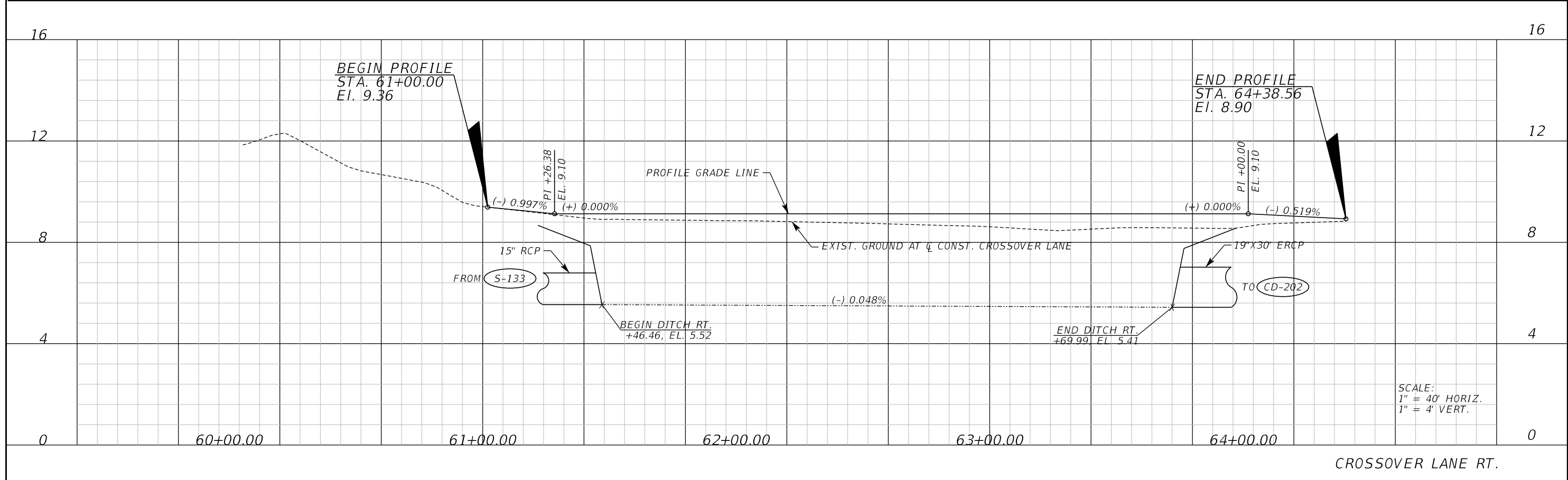
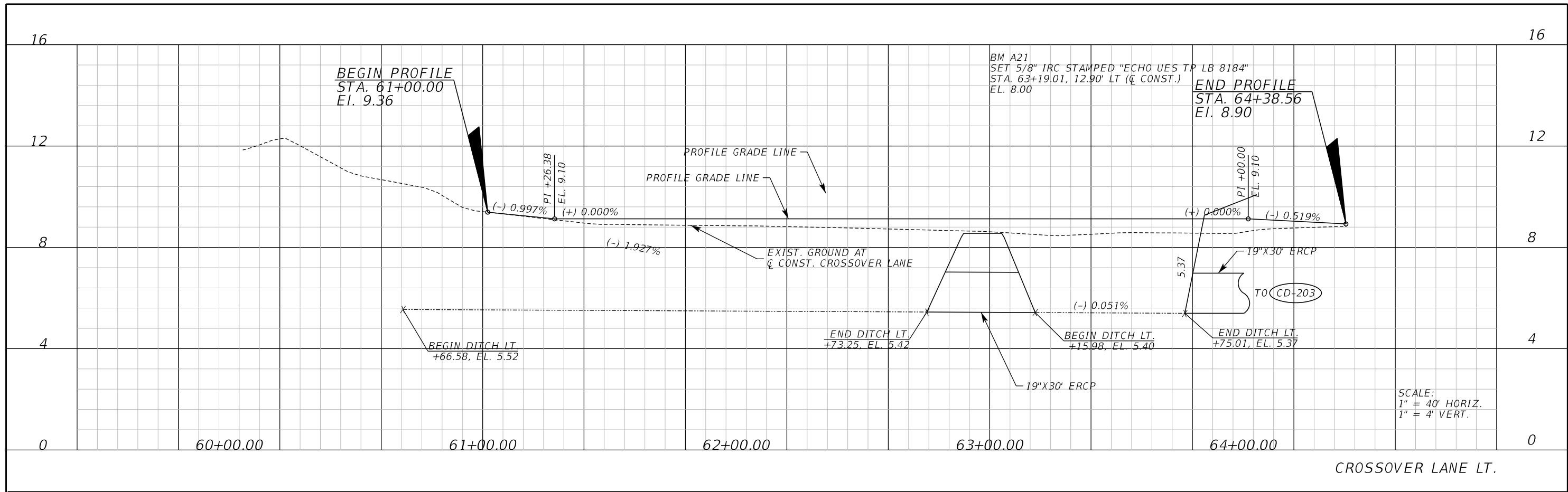
WHITCOMB DRIVE 02107099

PROFILE SHEET
WHITCOMB DRIVE

SHEET NO.

36

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REVISIONS		DATE	DESCRIPTION
DATE	DESCRIPTION		

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Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

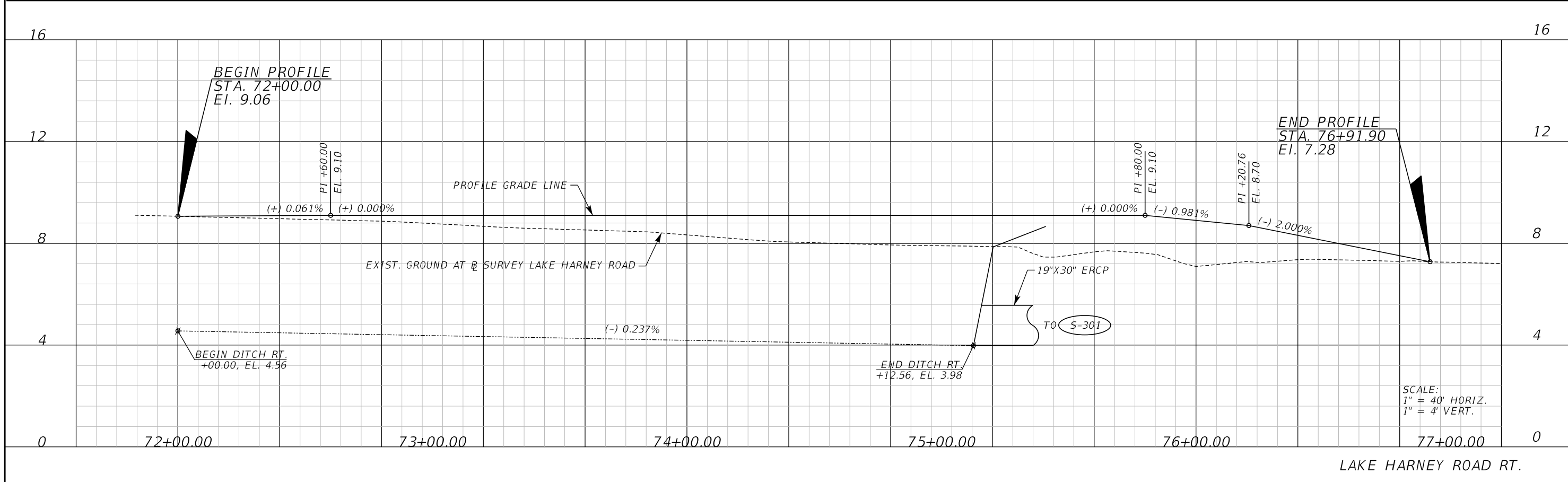
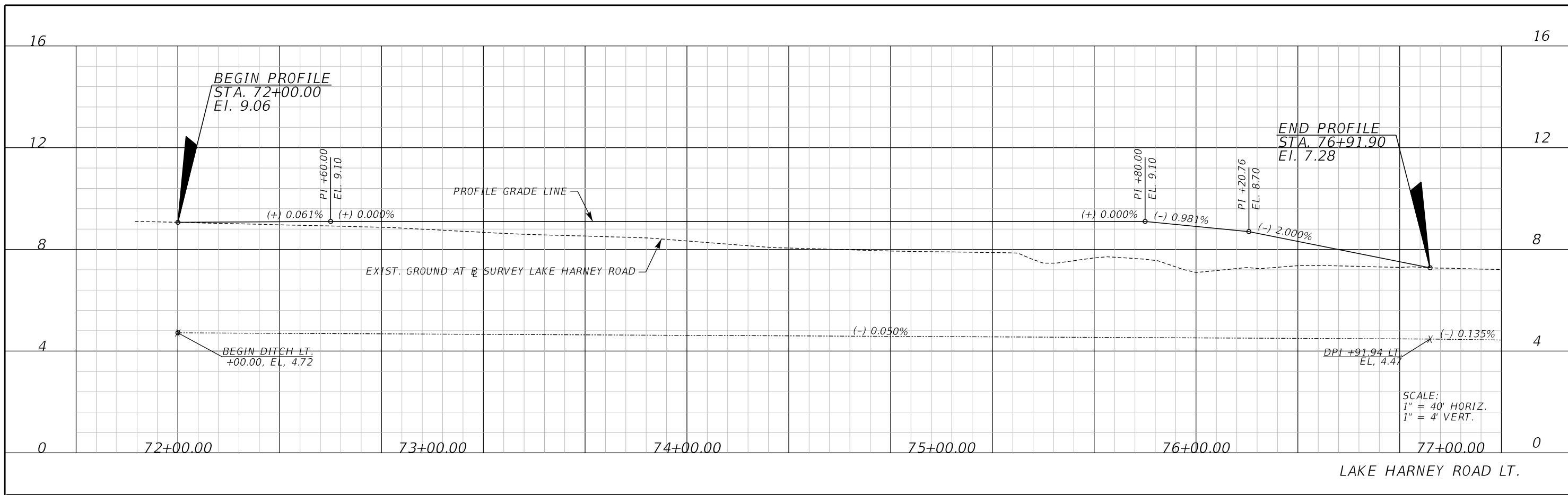
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE COUNTY CIP NO. 02107099

PROFILE SHEET
CROSSOVER LANE

SHEET NO. 37

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REVISIONS	
DATE	DESCRIPTION

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Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

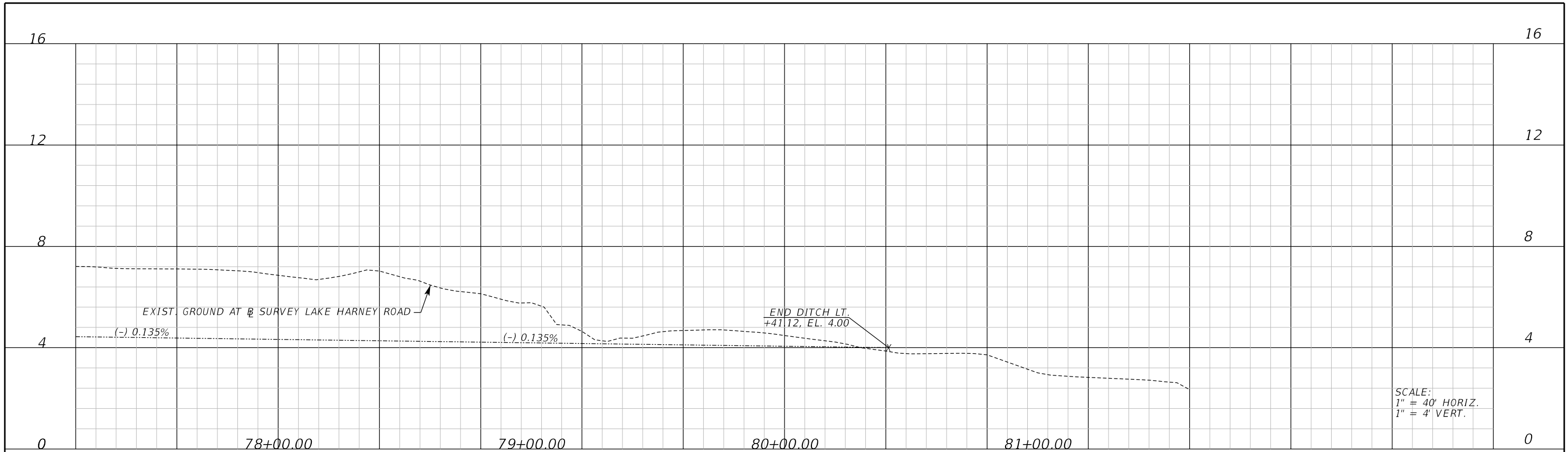
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WHITCOMB DRIVE 02107099

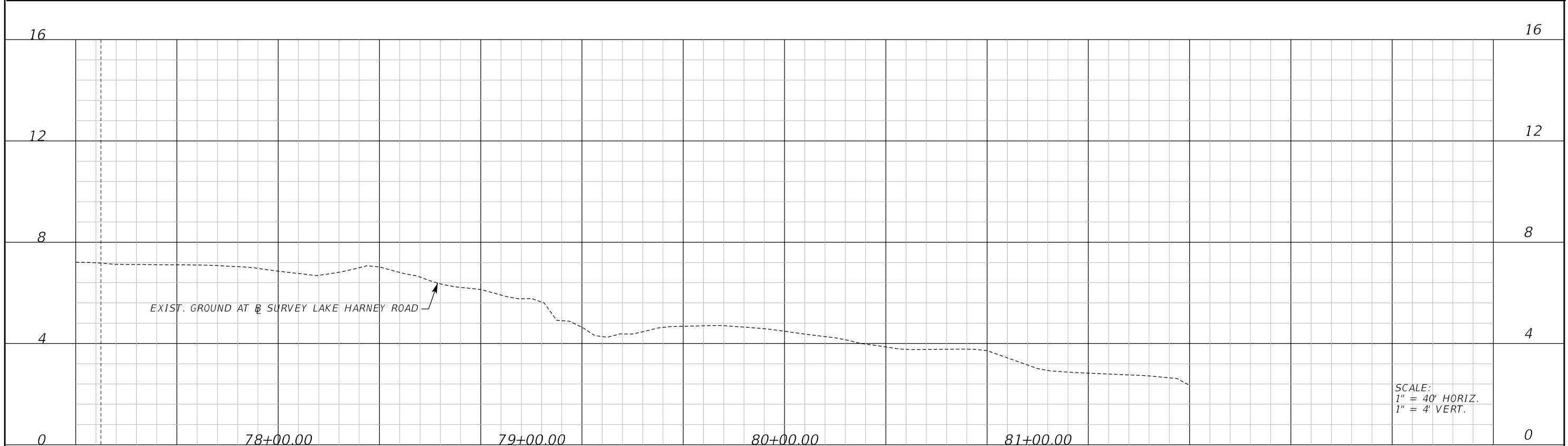
PROFILE SHEET
LAKE HARNEY RD.

SHEET NO.
38

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LAKE HARNEY ROAD LT.



LAKE HARNEY ROAD RT.

REVISIONS	
DATE	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

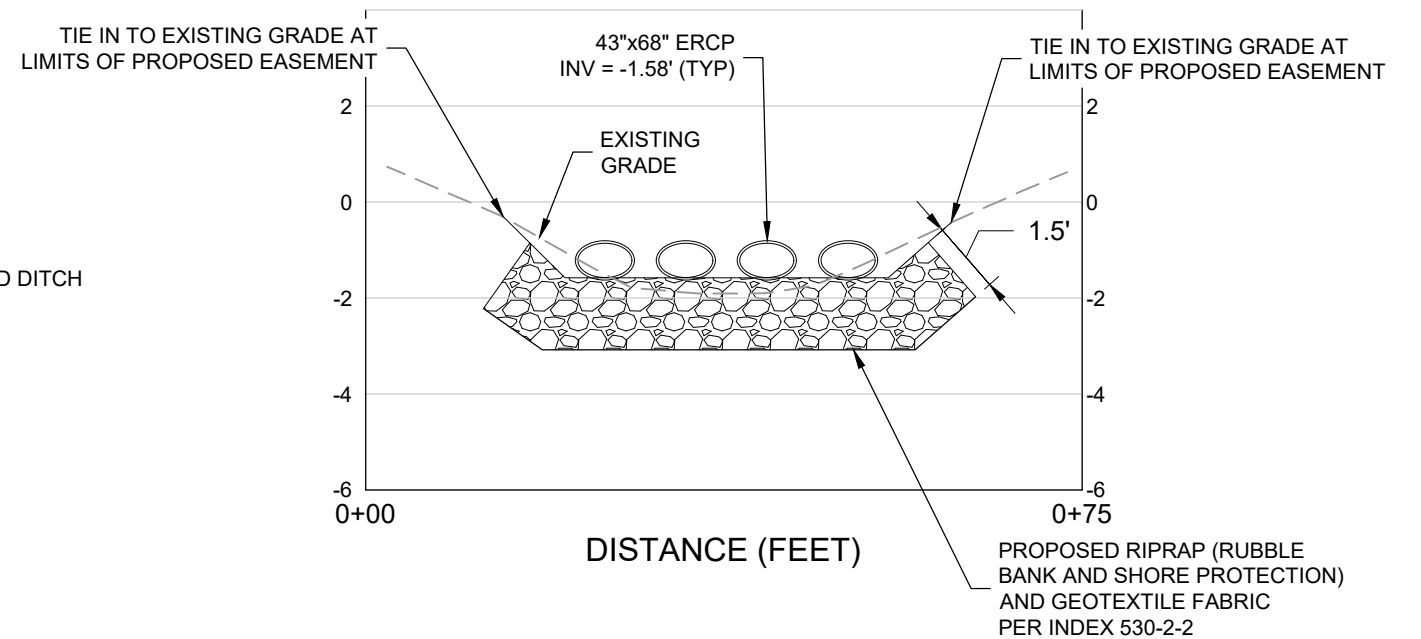
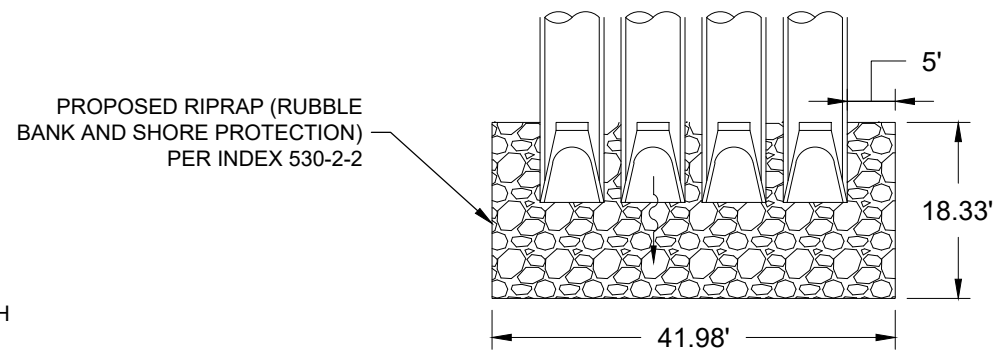
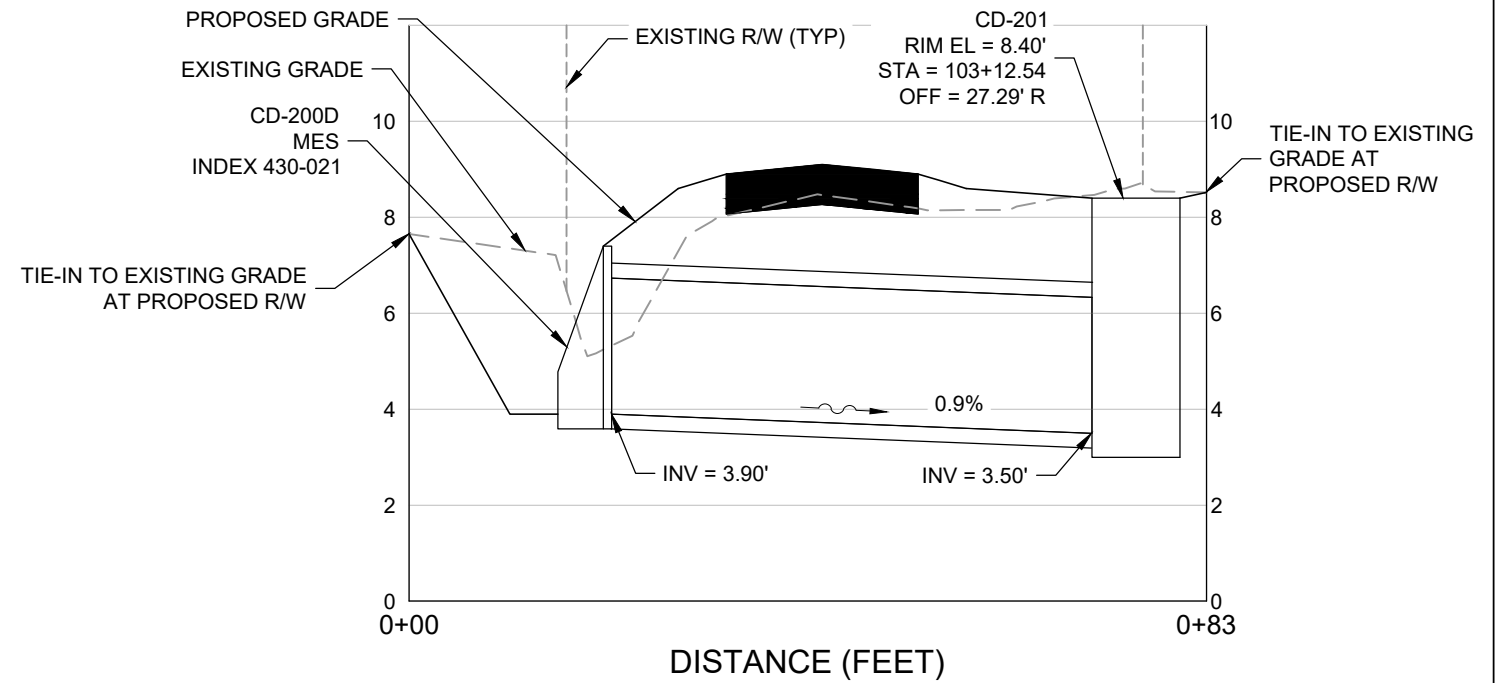
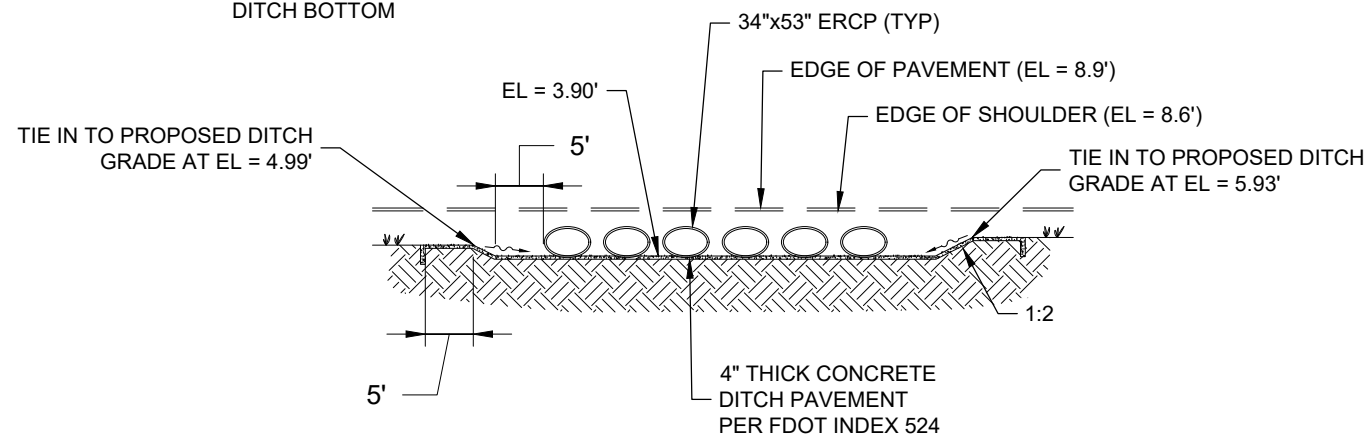
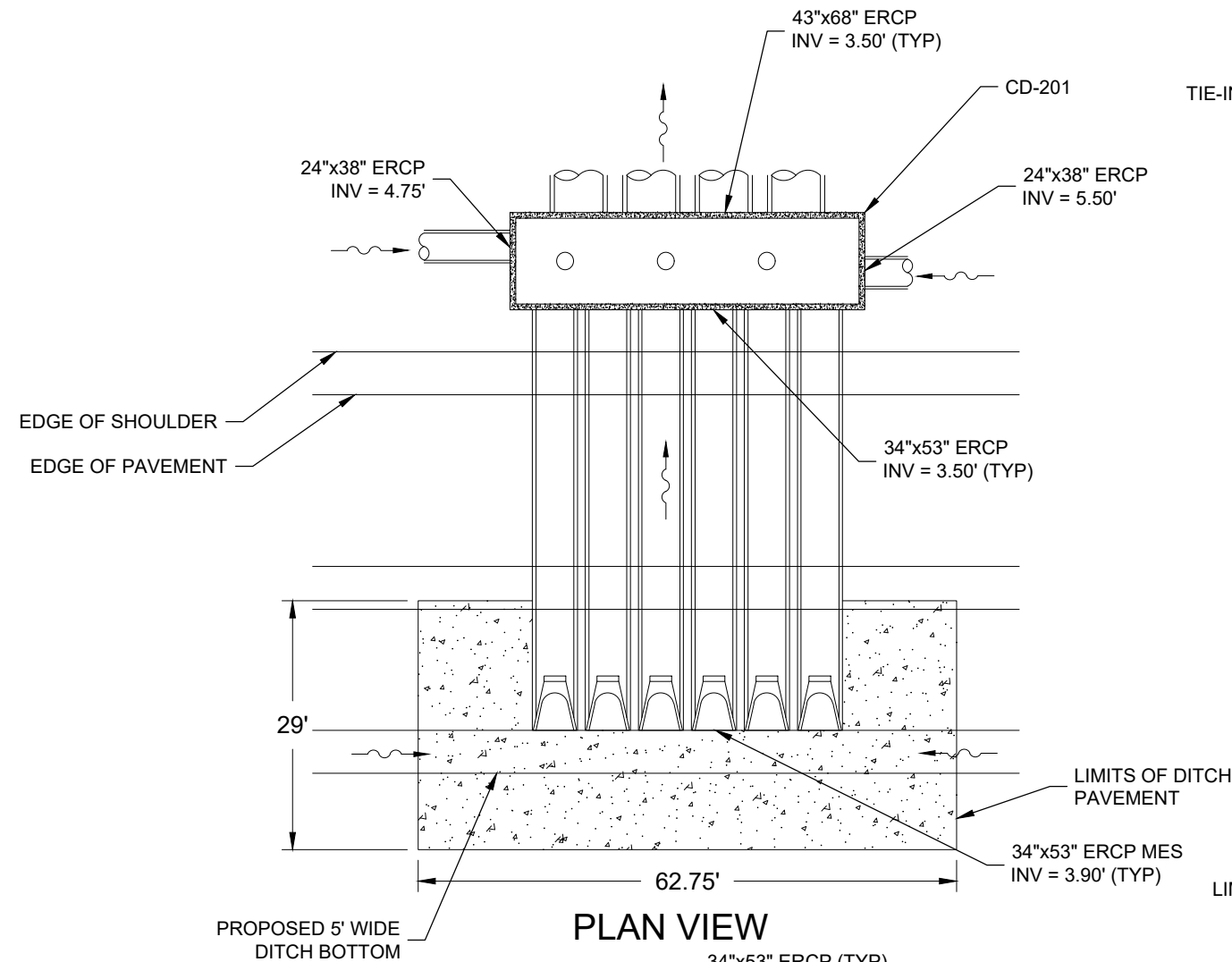
PROFILE SHEET
LAKE HARNEY RD.

SHEET NO.
39

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SOUTH CROSS-DRAIN AND OUTFALL DETAILS

STATION 103+04.00

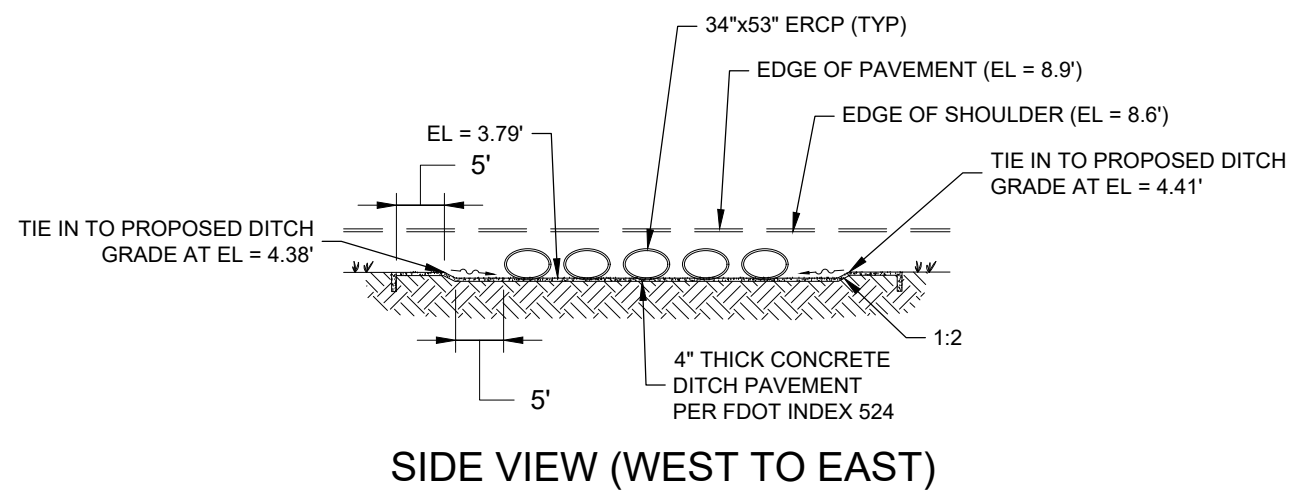
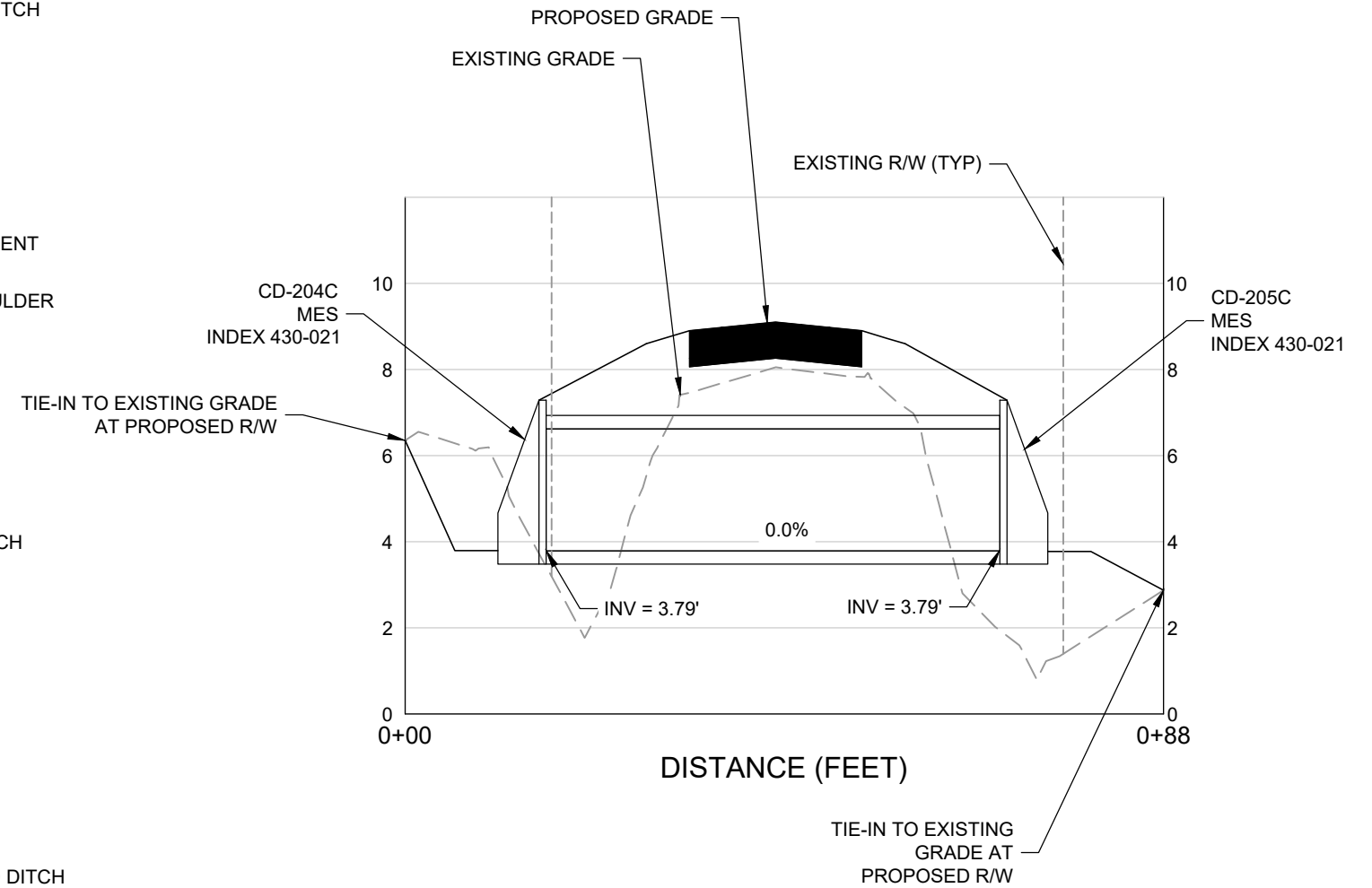
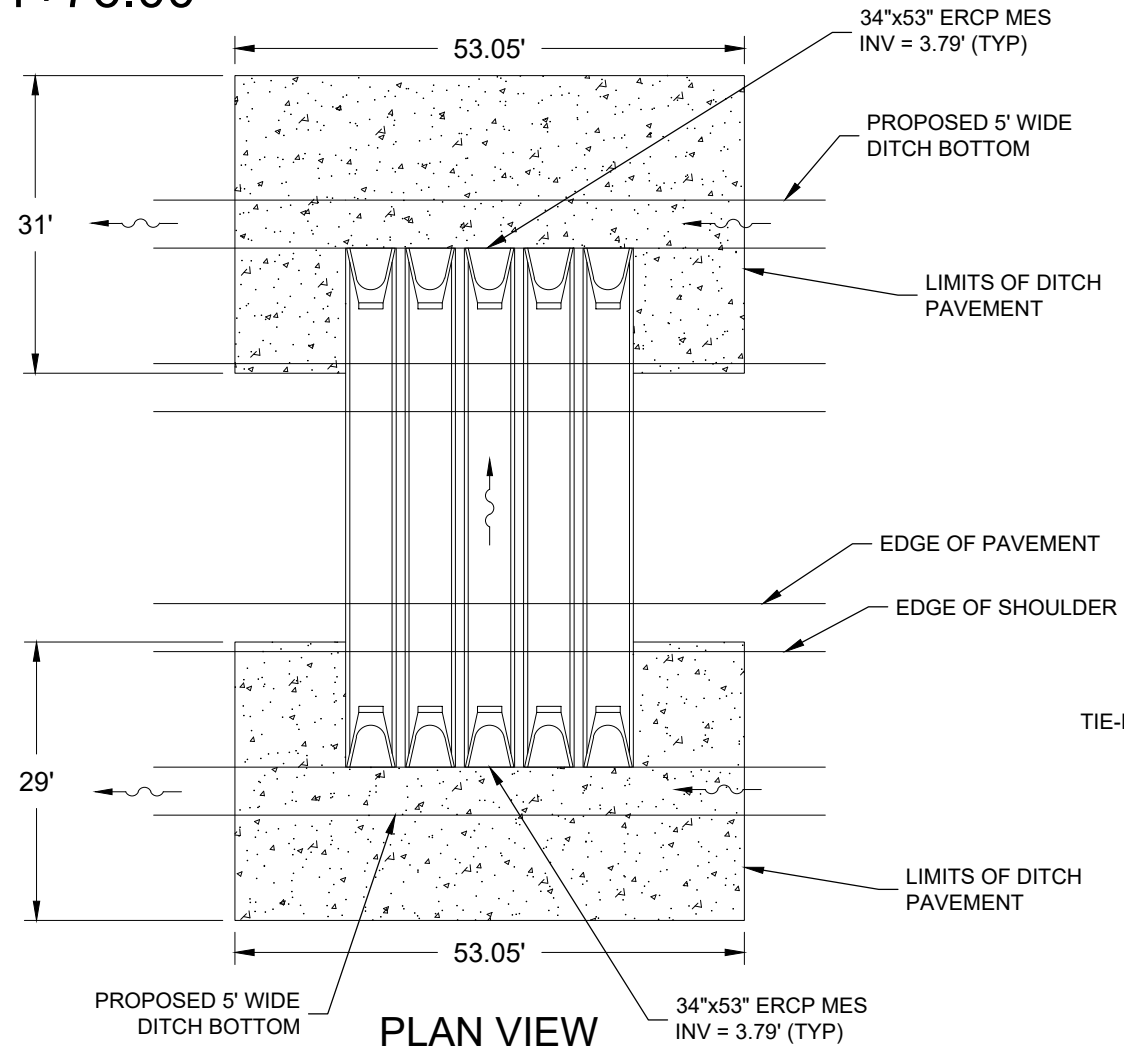


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

			DRAINAGE STRUCTURE DETAILS (1)	SHEET NO. 40
	ROAD NO.	COUNTY CIP NO. 02107099		

MIDDLE CROSS-DRAIN DETAILS

STATION 131+76.00



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

Mark W. Ellard, PE
PE No. 48073
Certificate of Authorization No. 4321

3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

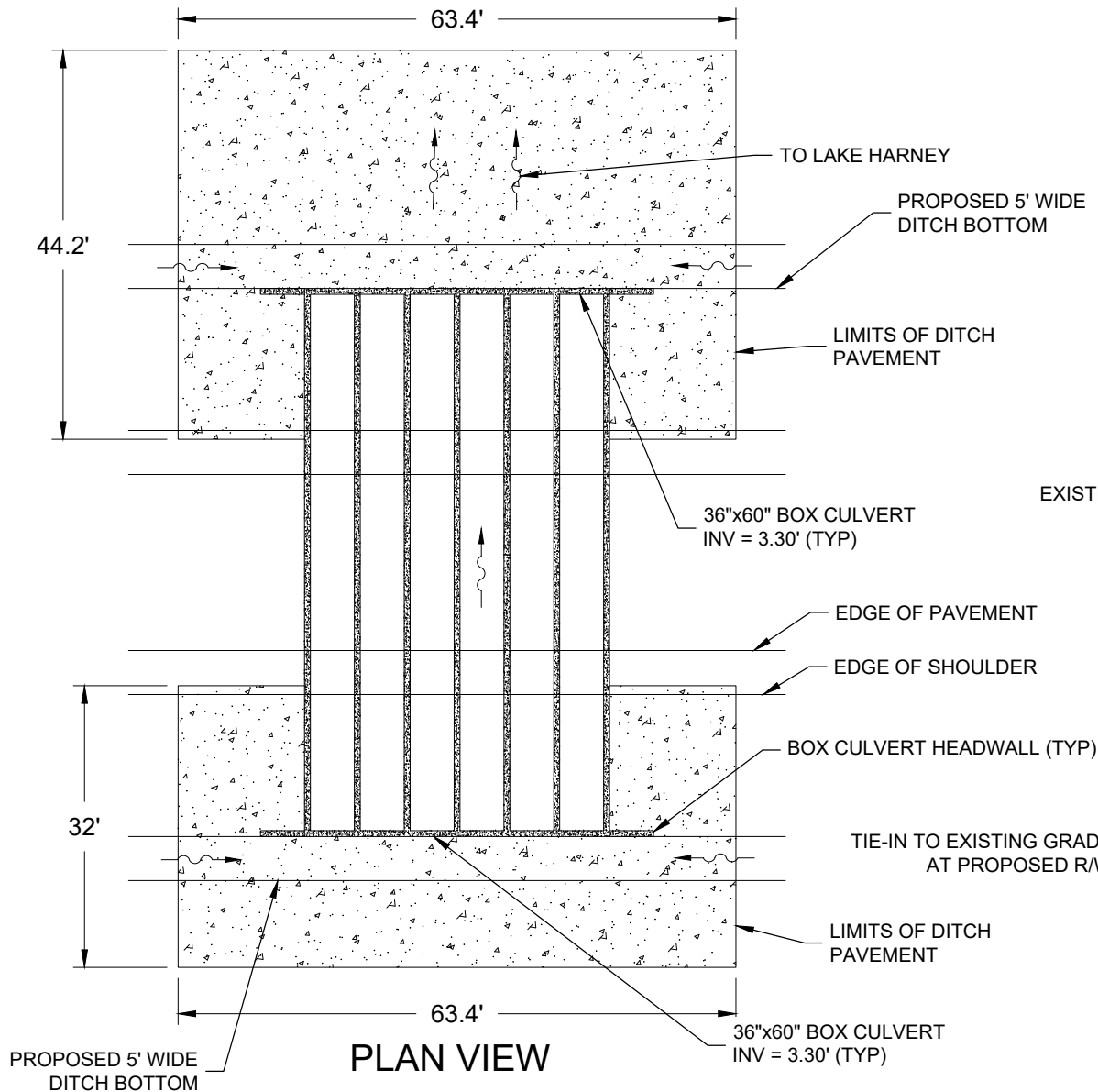
02107099

**DRAINAGE STRUCTURE
DETAILS (2)**

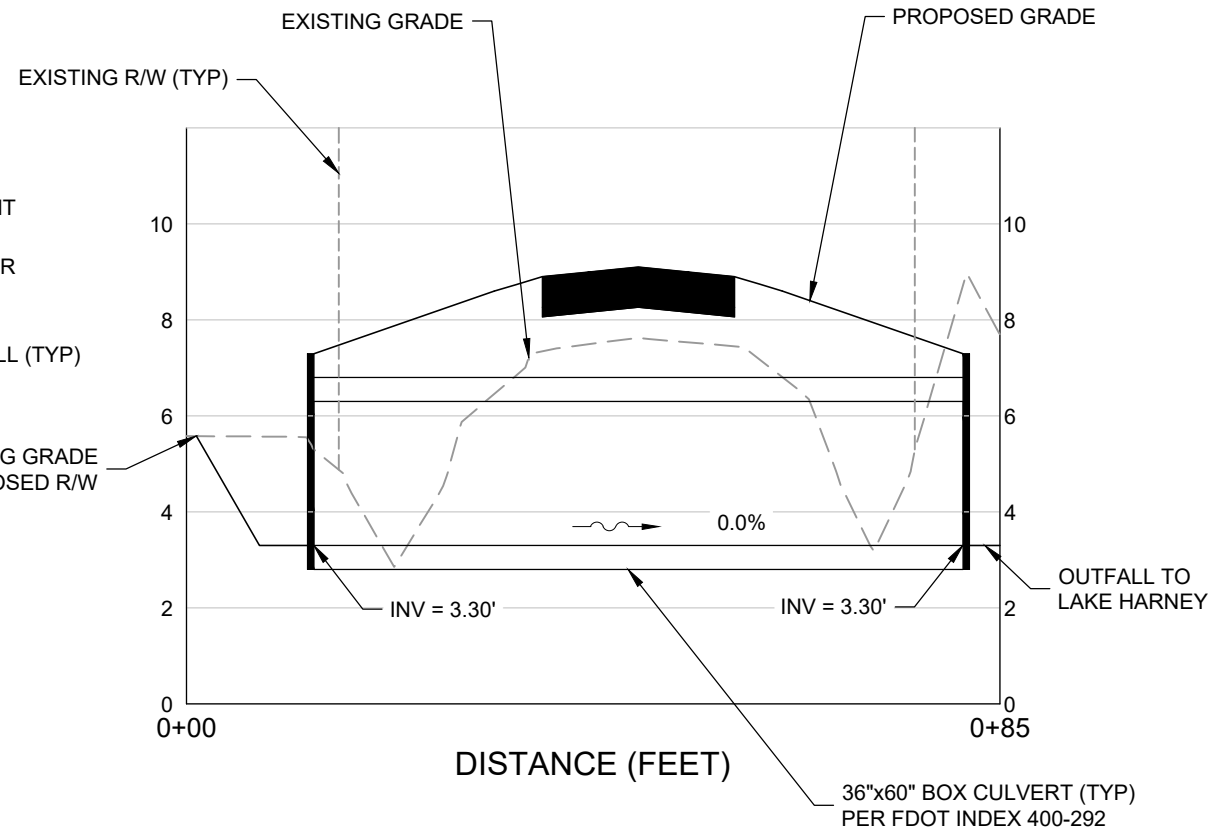
SHEET
NO.

41

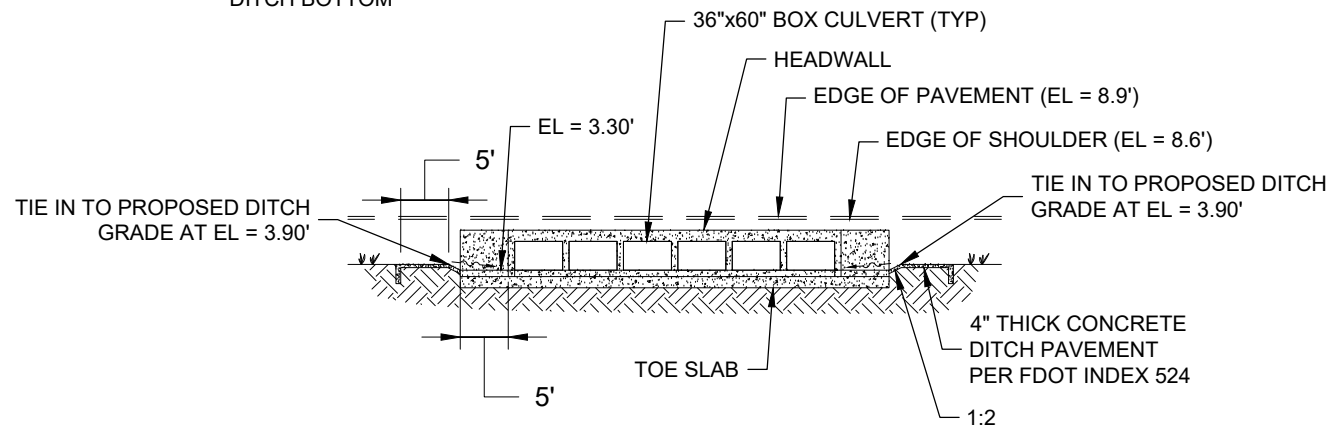
NORTH CROSS-DRAIN DETAILS STATION 142+05.47



PLAN VIEW



DISTANCE (FEET)



SIDE VIEW (WEST TO EAST)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

Mark W. Ellard, PE
PE No. 48073
Certificate of Authorization No. 4321

3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

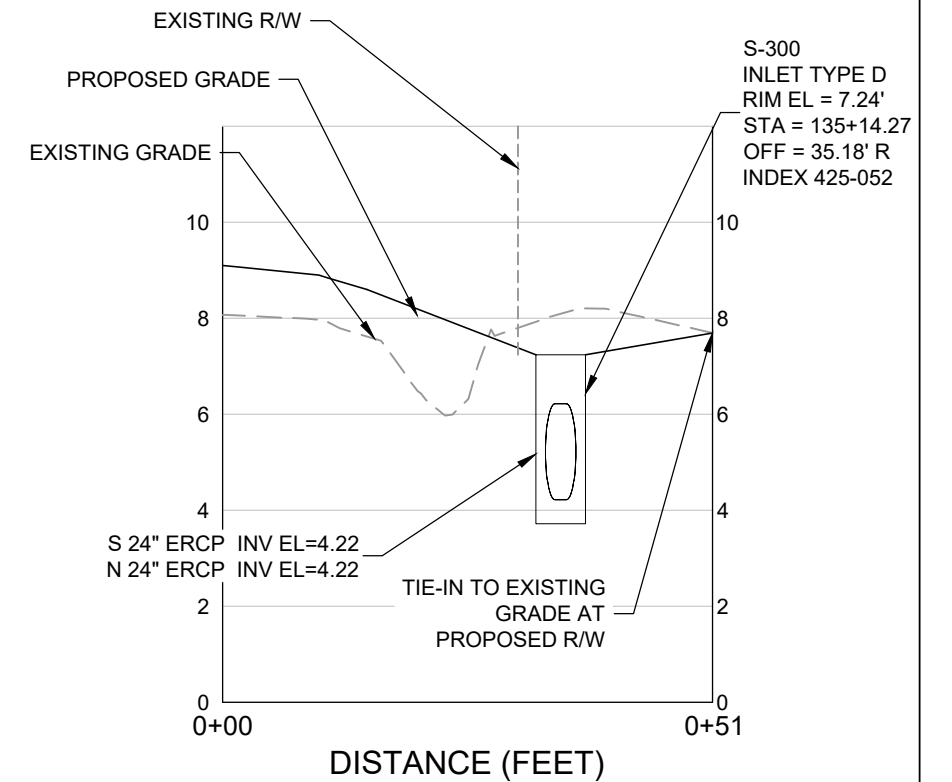
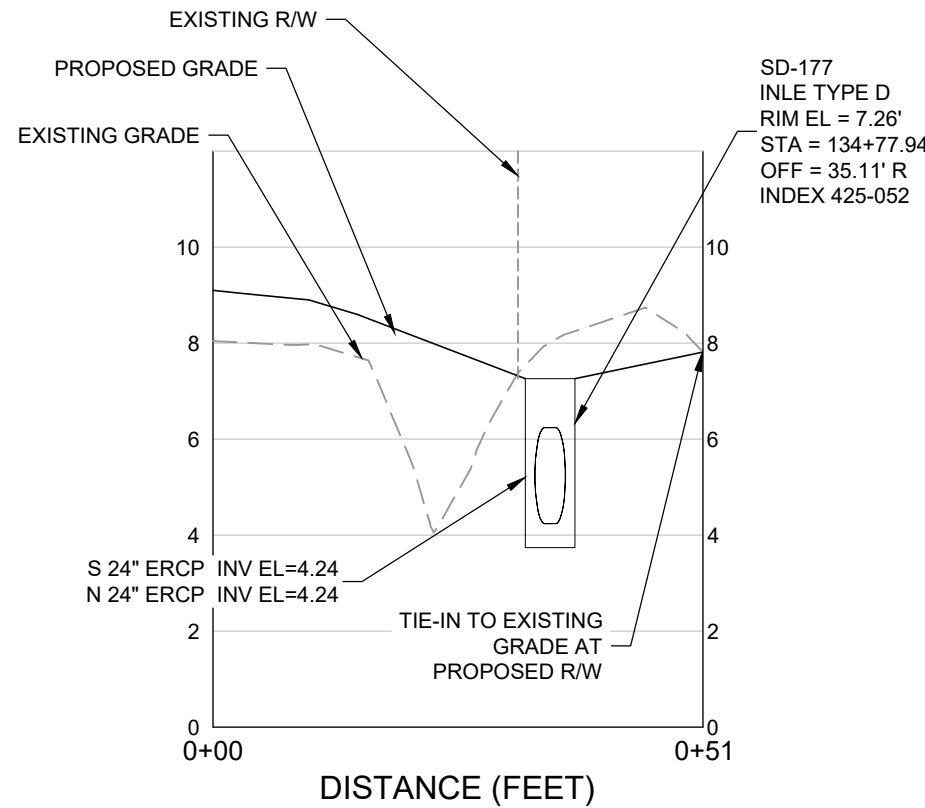
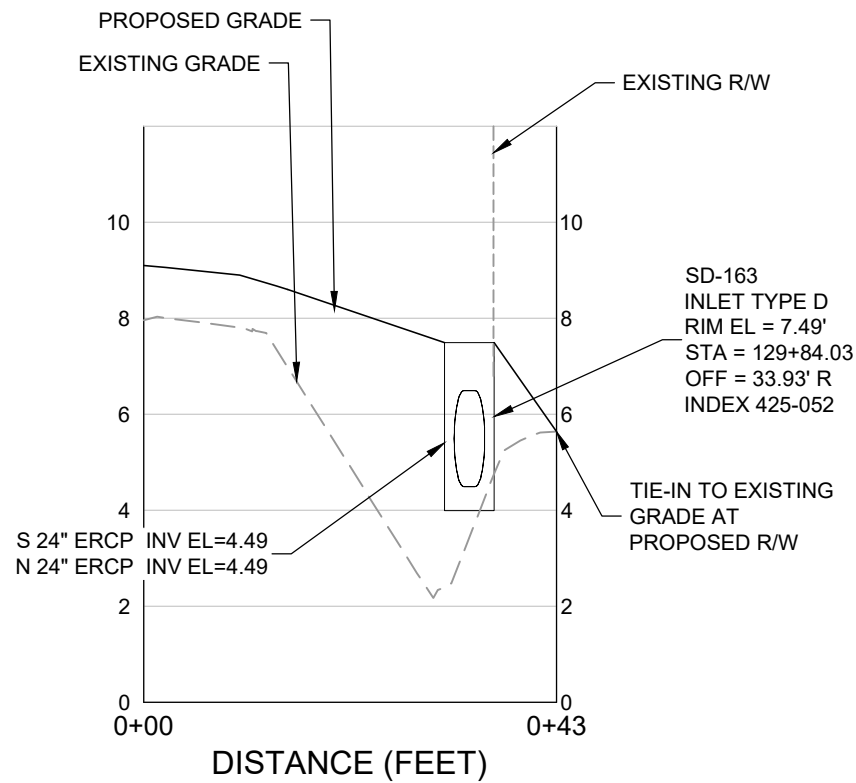
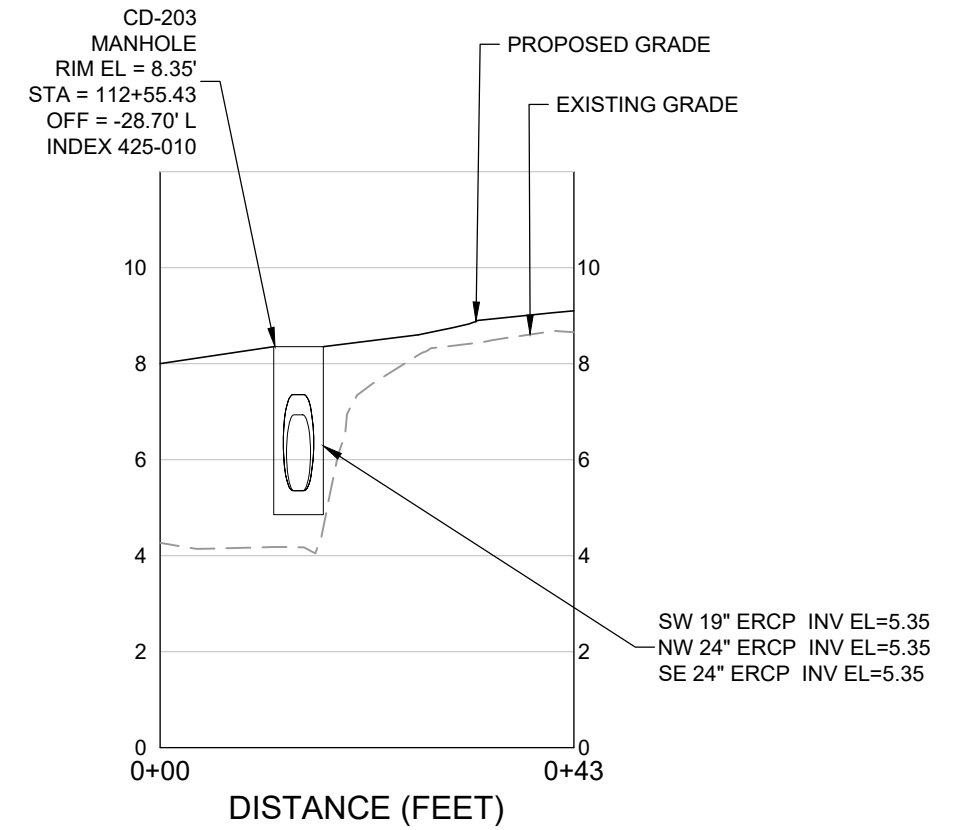
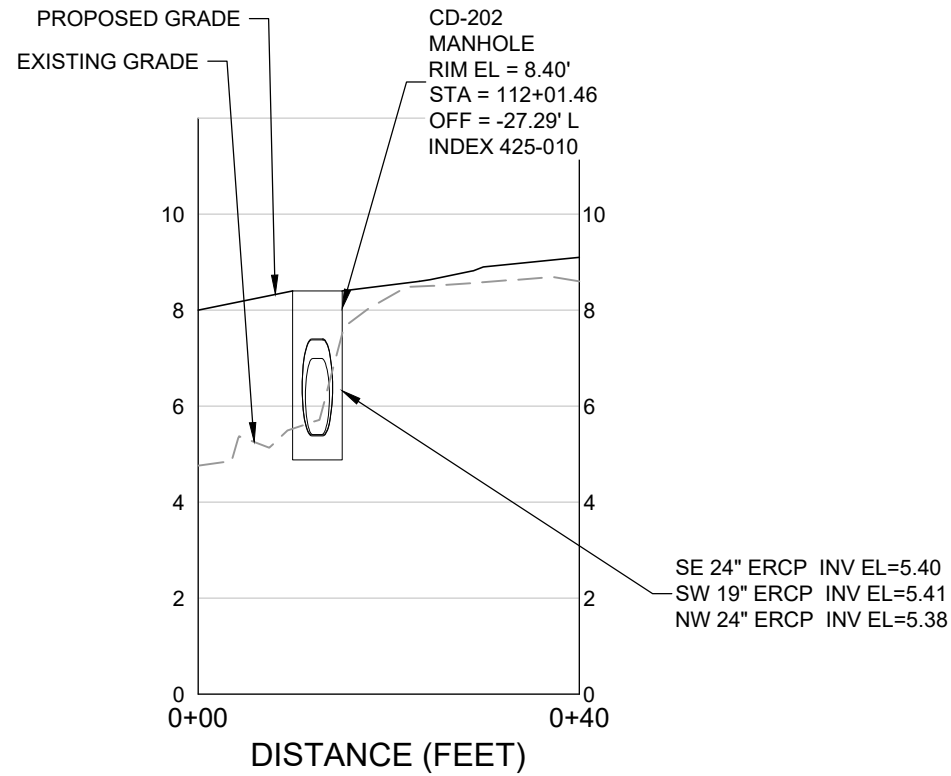
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO.	COUNTY CIP NO.
	02107099

**DRAINAGE STRUCTURE
DETAILS (3)**

SHEET
NO.

42



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

Mark W. Ellard, PE
PE No. 48073
Certificate of Authorization No. 4321

3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

02107099

**DRAINAGE STRUCTURE
DETAILS (4)**

SHEET
NO.

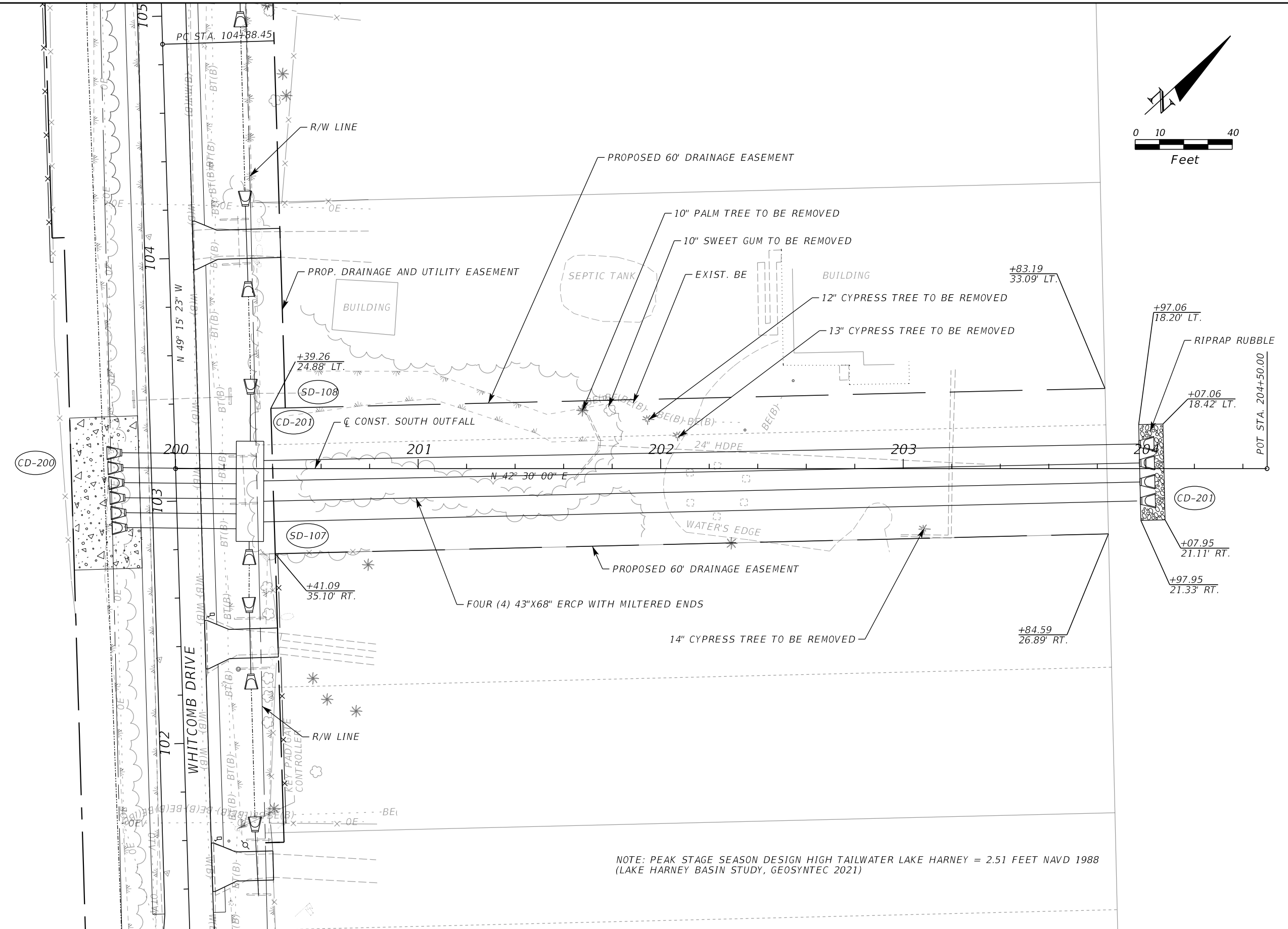
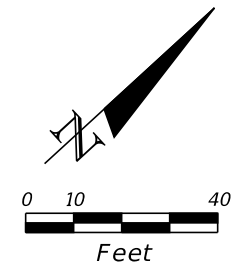
43

SUSERS

SDATES

STIMES

SFILES



NOTE: PEAK STAGE SEASON DESIGN HIGH TAILWATER LAKE HARNEY = 2.51 FEET NAVD 1988 (LAKE HARNEY BASIN STUDY, GEOSYNTEC 2021)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

3504 LAKE LYNDY DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
ENGINEERING DIVISION

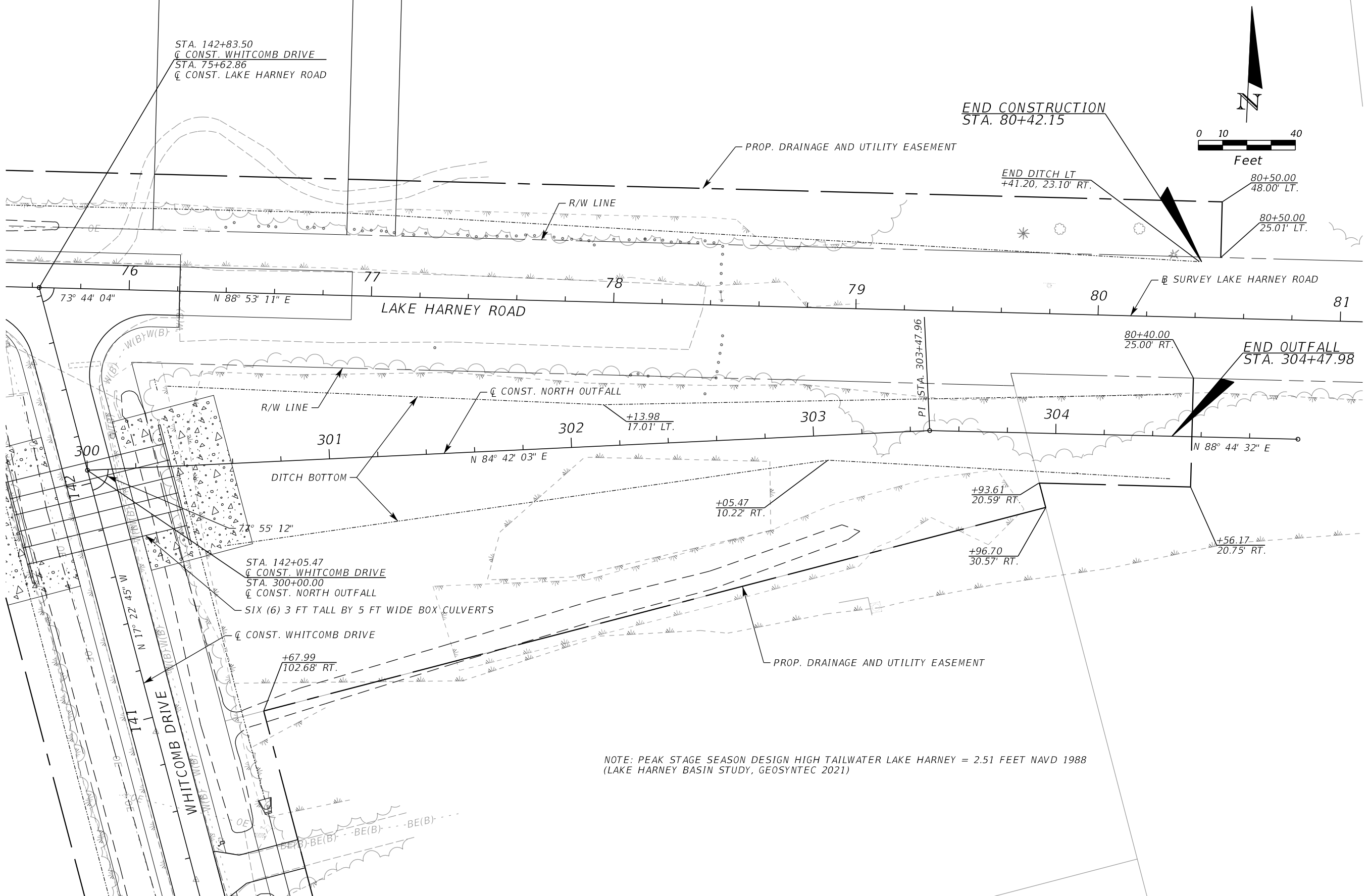
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

SOUTH OUTFALL

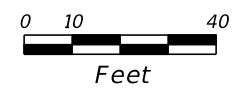
SHEET NO.
44

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STA. 142+83.50
 ☐ CONST. WHITCOMB DRIVE
 STA. 75+62.86
 ☐ CONST. LAKE HARNEY ROAD

END CONSTRUCTION
 STA. 80+42.15



END DITCH LT
 +41.20, 23.10' RT.

80+50.00
 48.00' LT.

80+50.00
 25.01' LT.

73° 44' 04"

N 88° 53' 11" E

LAKE HARNEY ROAD

☐ SURVEY LAKE HARNEY ROAD

R/W LINE

☐ CONST. NORTH OUTFALL

+13.98
 17.01' LT.

N 84° 42' 03" E

PI STA. 303+47.96

80+40.00
 25.00' RT.

END OUTFALL
 STA. 304+47.98

N 88° 44' 32" E

STA. 142+05.47
 ☐ CONST. WHITCOMB DRIVE
 STA. 300+00.00
 ☐ CONST. NORTH OUTFALL

SIX (6) 3 FT TALL BY 5 FT WIDE BOX CULVERTS

☐ CONST. WHITCOMB DRIVE

+67.99
 102.68' RT.

+05.47
 10.22' RT.

+93.61
 20.59' RT.

+96.70
 30.57' RT.

+56.17
 20.75' RT.

PROP. DRAINAGE AND UTILITY EASEMENT

NOTE: PEAK STAGE SEASON DESIGN HIGH TAILWATER LAKE HARNEY = 2.51 FEET NAVD 1988
 (LAKE HARNEY BASIN STUDY, GEOSYNTEC 2021)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
 consultants

3504 LAKE LYNDY DRIVE
 SUITE 155
 ORLANDO, FL 32817

Mark W. Ellard, PE
 FL PE #48073

AUTHORIZATION NUMBER 4321

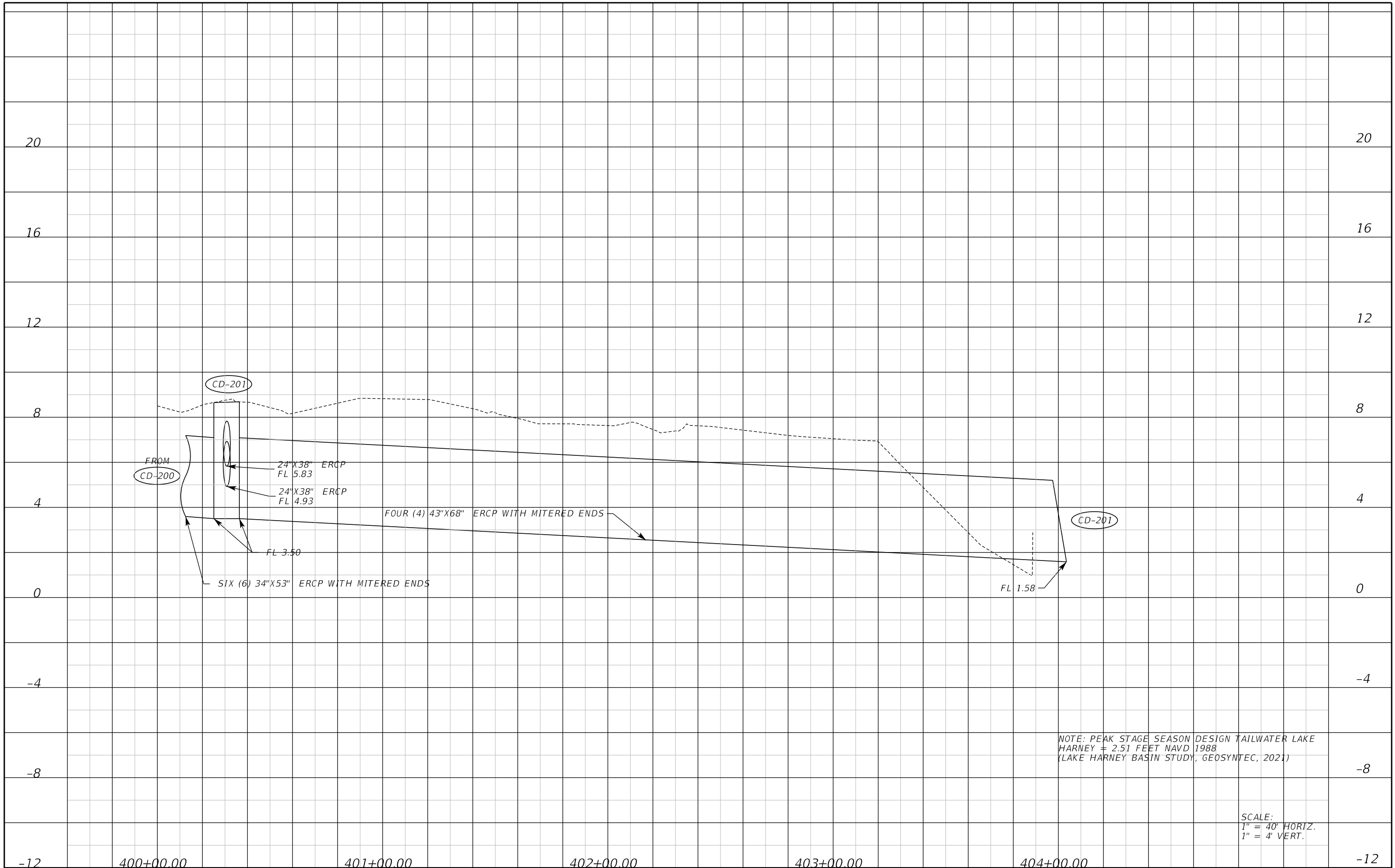
SEMINOLE COUNTY
 ENGINEERING DIVISION

ROAD NO.	COUNTY CIP NO.
WHITCOMB DRIVE	02107099

**NORTH OUTFALL
 LATERAL DITCH**

SHEET NO.
 45

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NOTE: PEAK STAGE SEASON DESIGN TAILWATER LAKE HARNEY = 2.51 FEET NAVD 1988 (LAKE HARNEY BASIN STUDY, GEOSYNTEC, 2021)

SCALE:
1" = 40' HORIZ.
1" = 4' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

3504 LAKE LYNDY DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
ENGINEERING DIVISION

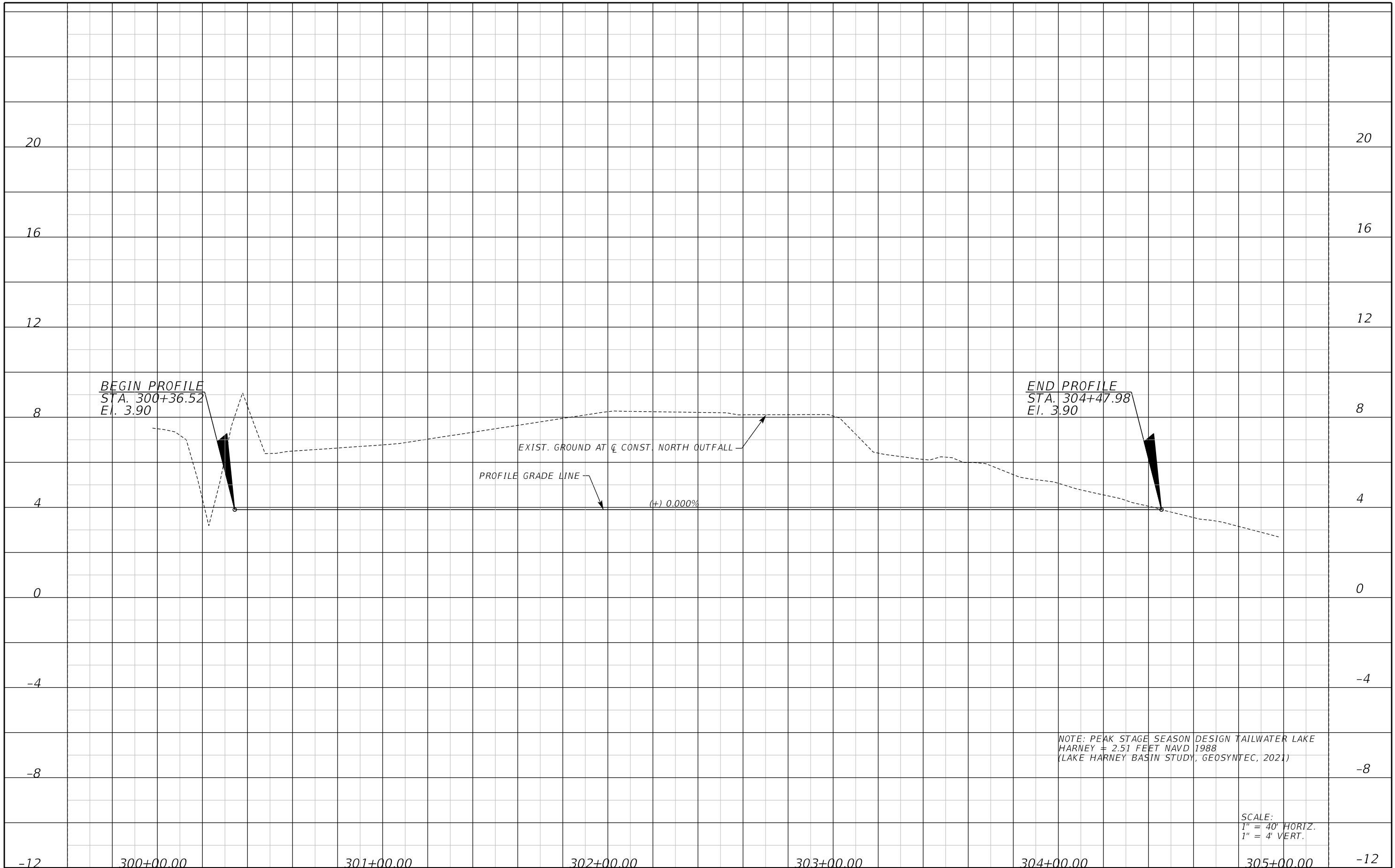
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

**SOUTH OUTFALL
PROFILE**

SHEET NO. 46

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

3504 LAKE LYNDY DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

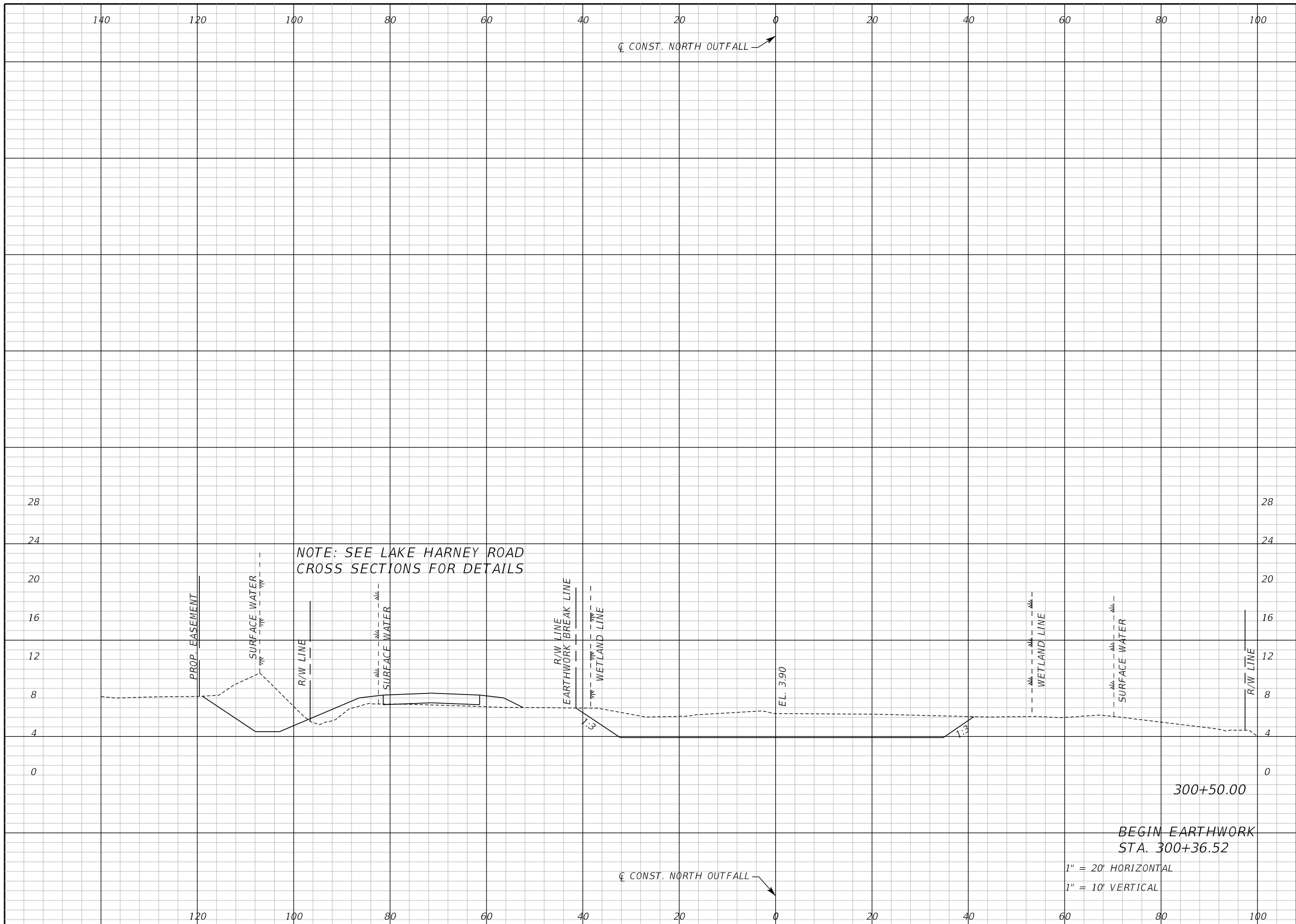
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

**NORTH OUTFALL
PROFILE**

SHEET NO.
47



Regular		Exc.		Embankment	
A	V	A	V	A	V
182.6		46		0	
0		0		0	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
ENGINEERING DIVISION

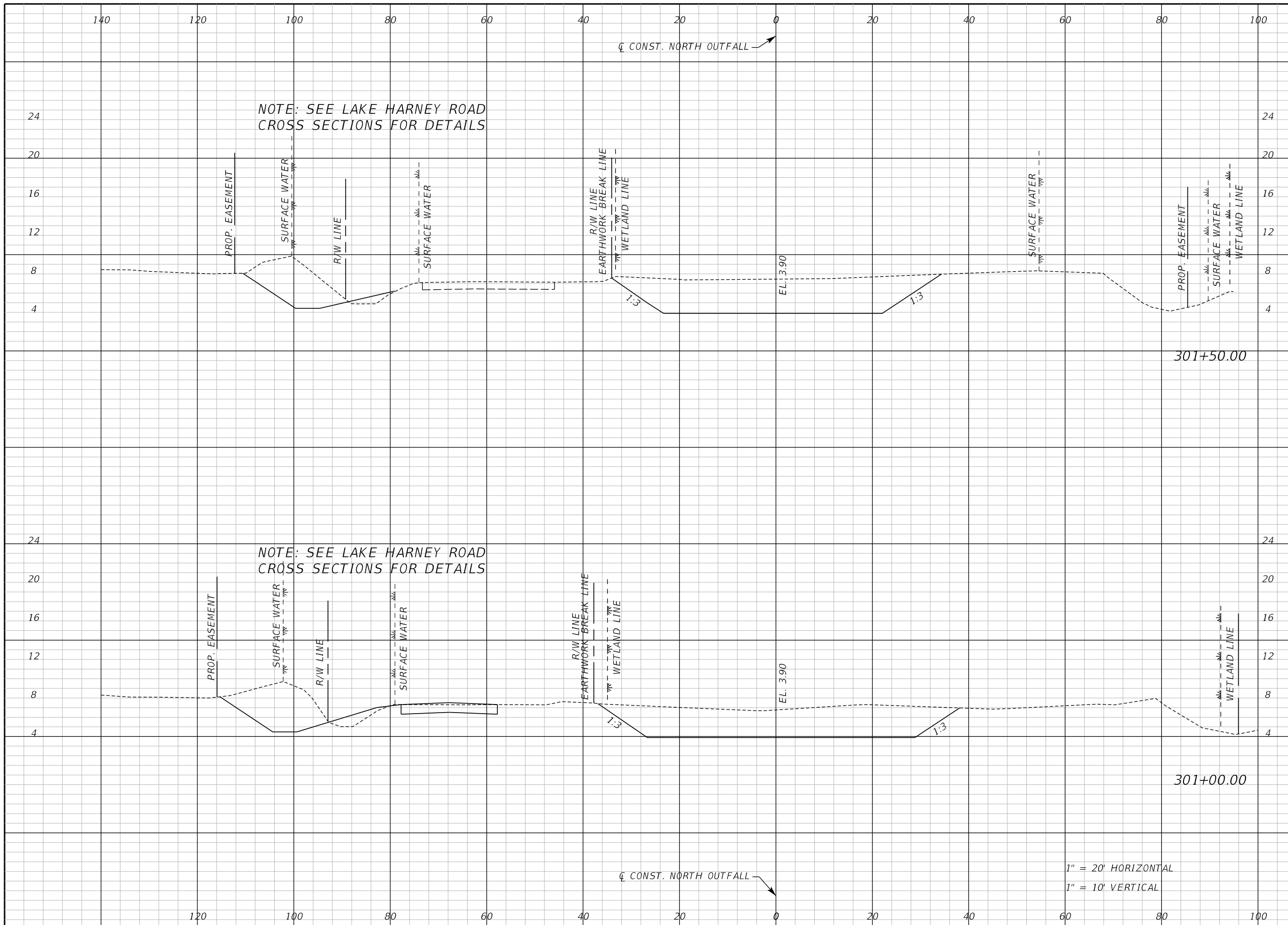
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

NORTH OUTFALL LATERAL DITCH
CROSS SECTION

SHEET NO.
48

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Regular		Exc.		Embankment	
A	V	A	V	A	V
206.0	379	0	0	0	0
203.8	358	0	0	0	0

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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3504 LAKE LYNDA DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
ENGINEERING DIVISION

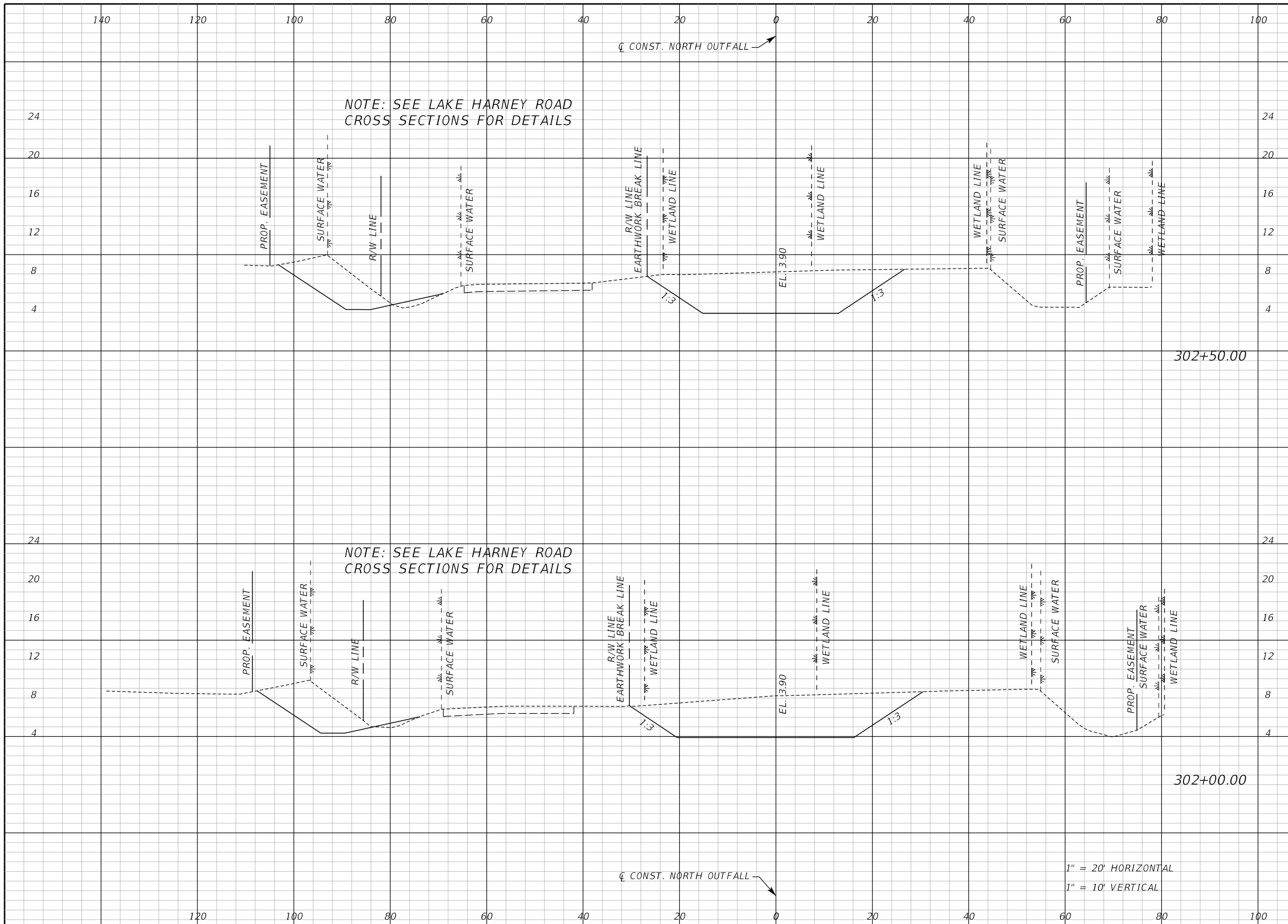
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

NORTH OUTFALL LATERAL DITCH
CROSS SECTION

SHEET NO.
49

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
175.6		350		0	0
202.2		378		0	0

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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3504 LAKE LYNDY DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

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ENGINEERING DIVISION

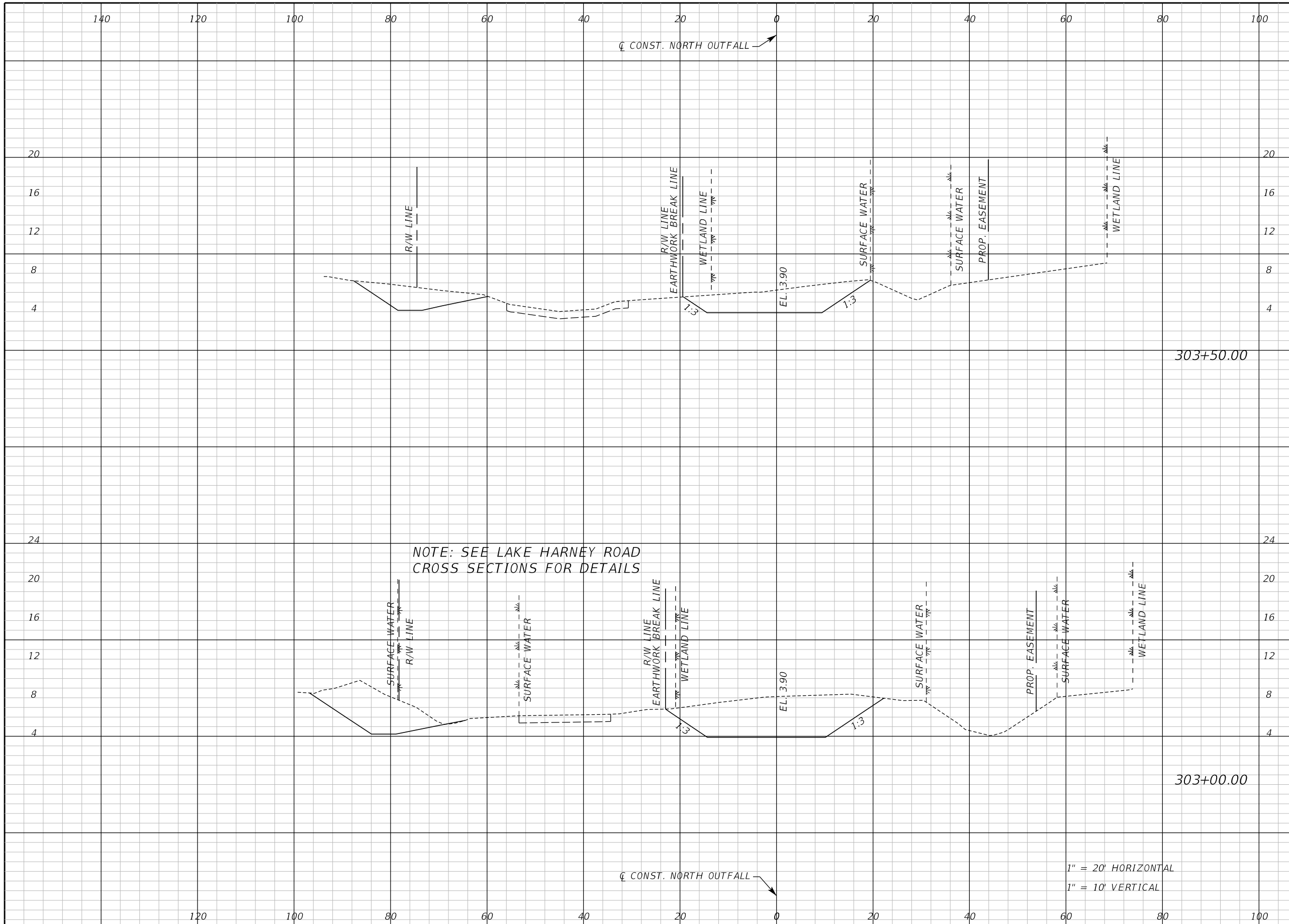
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

NORTH OUTFALL LATERAL DITCH
CROSS SECTION

SHEET NO.
50

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NOTE: SEE LAKE HARNEY ROAD CROSS SECTIONS FOR DETAILS

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

Regular		Exc.		Embankment	
A	V	A	V	A	V
74.0		200		0	
141.9		294		0	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

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ENGINEERING DIVISION

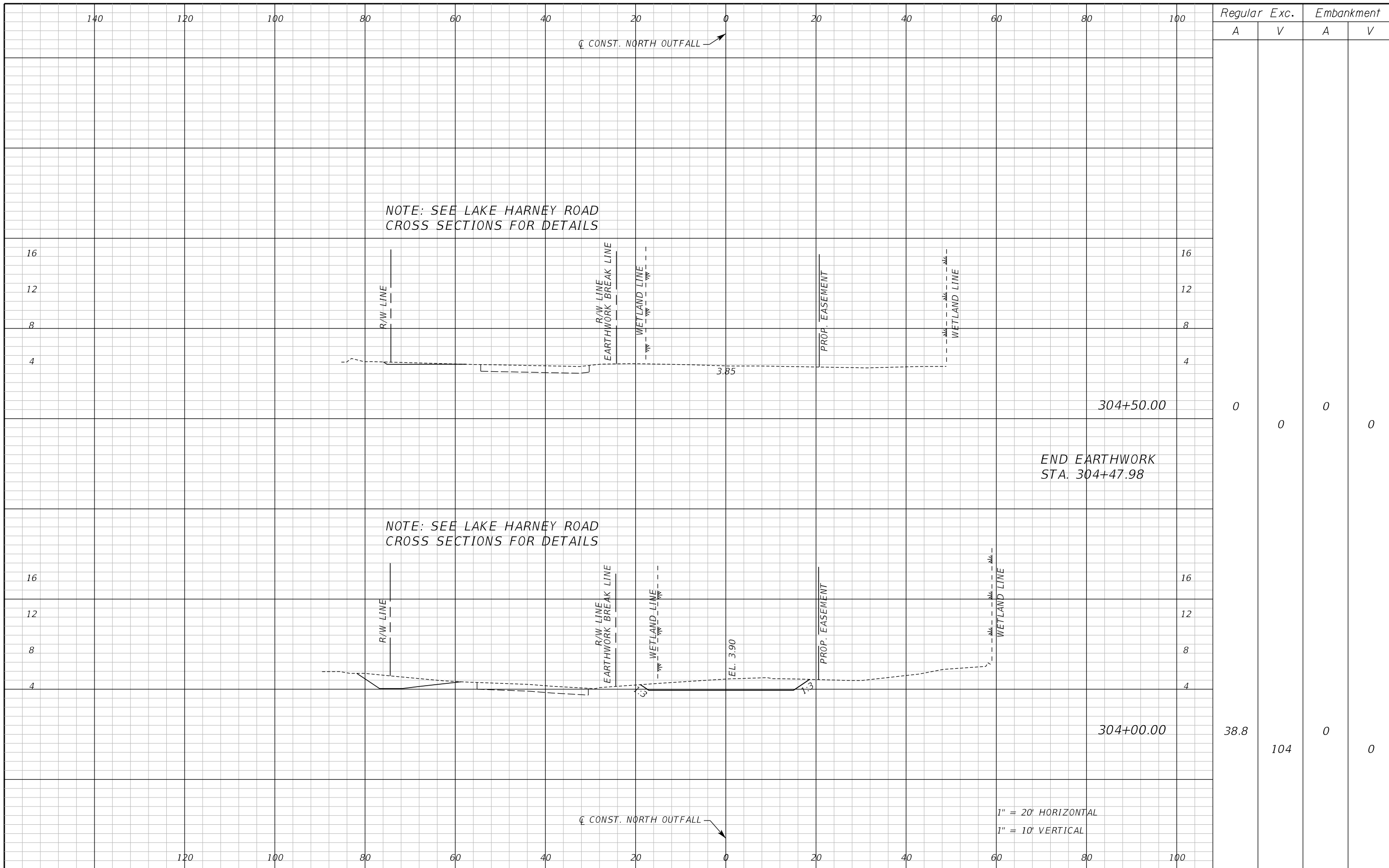
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

NORTH OUTFALL LATERAL DITCH
CROSS SECTION

SHEET NO.
51

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NOTE: SEE LAKE HARNEY ROAD CROSS SECTIONS FOR DETAILS

NOTE: SEE LAKE HARNEY ROAD CROSS SECTIONS FOR DETAILS

END EARTHWORK
STA: 304+47.98

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

3504 LAKE LYNDY DRIVE
SUITE 155
ORLANDO, FL 32817

Mark W. Ellard, PE
FL PE #48073

AUTHORIZATION NUMBER 4321

SEMINOLE COUNTY
ENGINEERING DIVISION

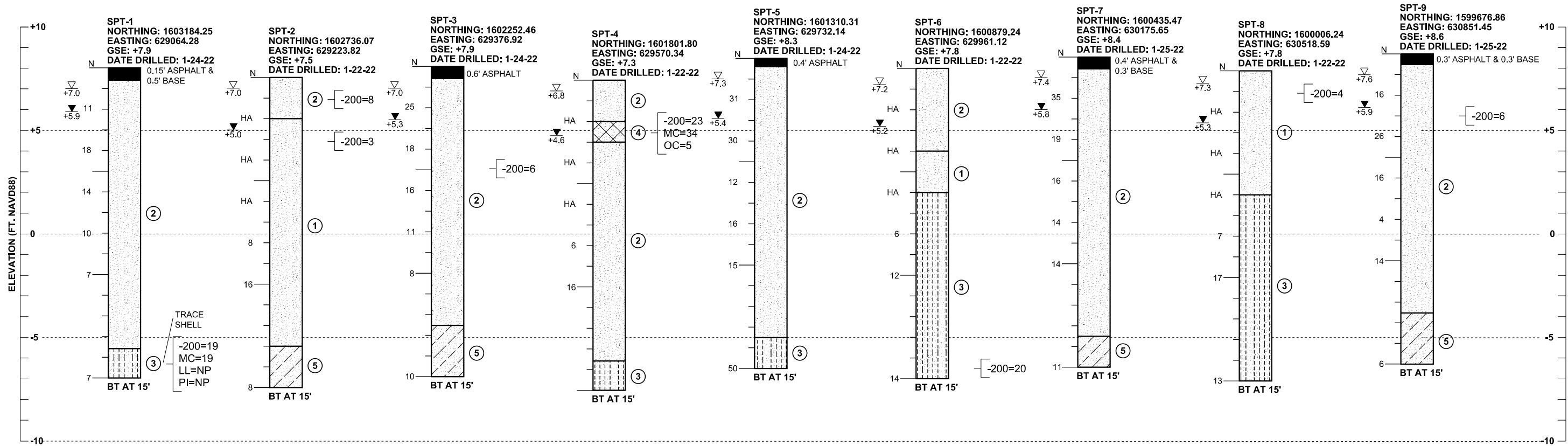
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

NORTH OUTFALL LATERAL DITCH
CROSS SECTION

SHEET NO.
52

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LEGEND

- GSE GROUND SURFACE ELEVATION (FT. NAVD88)
- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
- HA HAND AUGERED FOR UTILITY CLEARANCE
- ▽ ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT. NAVD88)
- ▽+7.0 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DATE DRILLED
- ▽+5.9
- BT BORING TERMINATED AT DEPTH INDICATED
- 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
- MC= PERCENT NATURAL MOISTURE CONTENT
- LL= LIQUID LIMIT
- PI= PLASTICITY INDEX
- OC= PERCENT ORGANIC CONTENT
- NP= NON-PLASTIC

GENERAL NOTES

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

BORING LOCATIONS WERE SURVEYED FOR VERTICAL AND HORIZONTAL CONTROL BY ECHO UES.

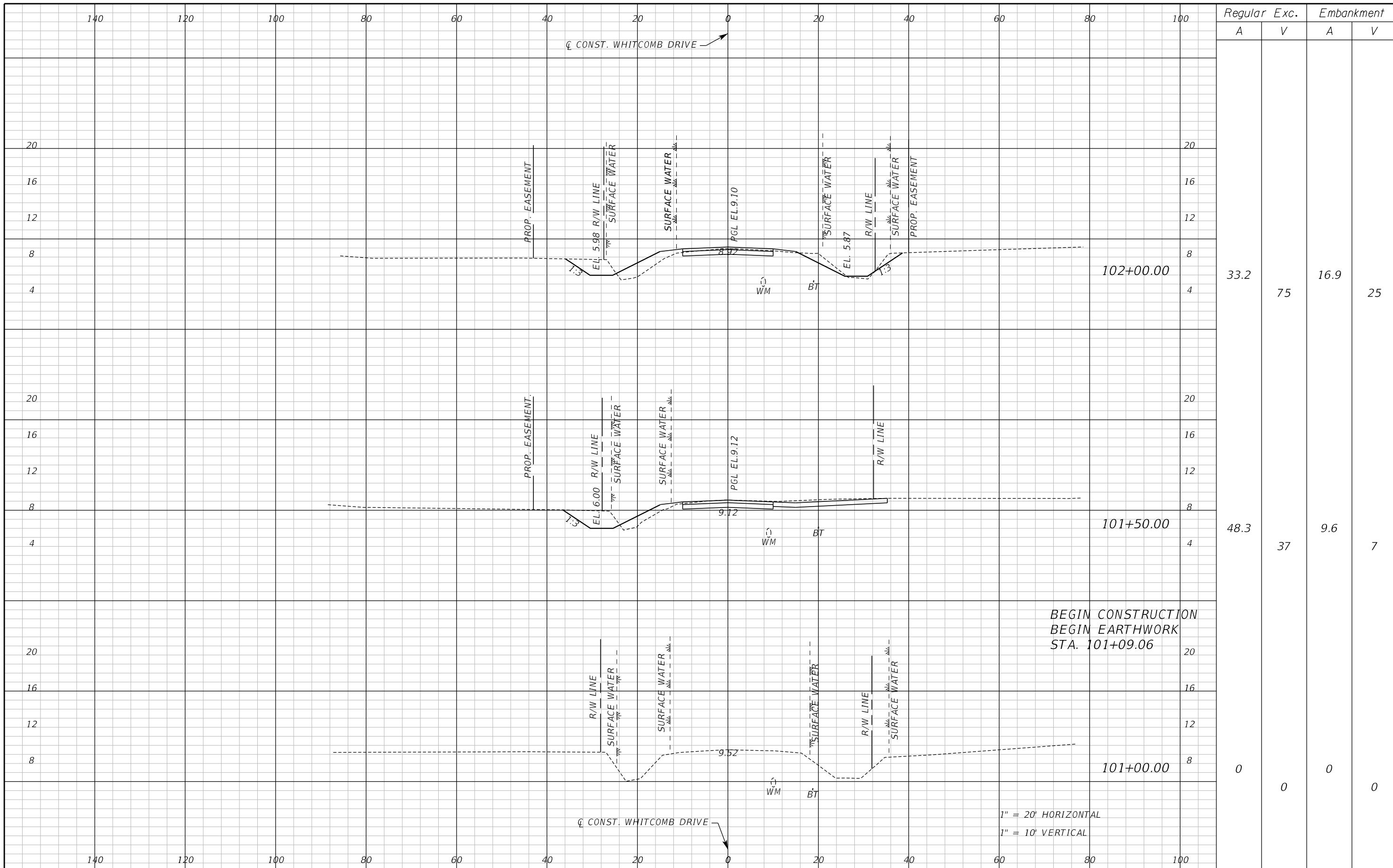
SPLIT SPOON SAMPLER:
 INSIDE DIAMETER: 1.375 IN.
 OUTSIDE DIAMETER: 2.0 IN.
 AVERAGE HAMMER DROP: 30 IN.
 HAMMER WEIGHT: 140 LBS.

AUTOMATIC HAMMER			
GRANULAR SOILS: SANDS		NON-GRANULAR SOILS: SILTS, CLAYS, MUCK	
N VALUE (BLOWS/FT)	RELATIVE DENSITY	N VALUE (BLOWS/FT)	CONSISTENCY
0-3	VERY LOOSE	0-1	VERY SOFT
3-8	LOOSE	1-3	SOFT
8-24	MEDIUM DENSE	3-6	FIRM
24-40	DENSE	6-12	STIFF
OVER 40	VERY DENSE	12-24	VERY STIFF
		OVER 24	HARD

STRATUM NO.	UNIFIED CLASSIFICATION	HATCHING	SOIL DESCRIPTION
①	SP	[Hatching pattern]	GRAY TO LIGHT BROWN FINE SAND
②	SP-SM	[Hatching pattern]	LIGHT BROWN TO BROWN FINE SAND WITH SILT
③	SM	[Hatching pattern]	BROWN TO GRAY SILTY FINE SAND
④	PT	[Hatching pattern]	DARK BROWN MUCKY FINE SAND
⑤	SC	[Hatching pattern]	GRAY CLAYEY FINE SAND

FIGURE 3

REVISIONS				CRAIG G. BALLOCK, P.E. P.E. LICENSE NUMBER 71571 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 LAKE BALDWIN LANE ORLANDO, FL 32814	SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION WHITCOMB DRIVE PAVING AND DRAINAGE RETROFIT	ROADWAY BORING RESULTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				53



Regular		Exc.		Embankment	
A	V	A	V	A	V
33.2	75	16.9	25		
48.3	37	9.6	7		
0	0	0	0		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

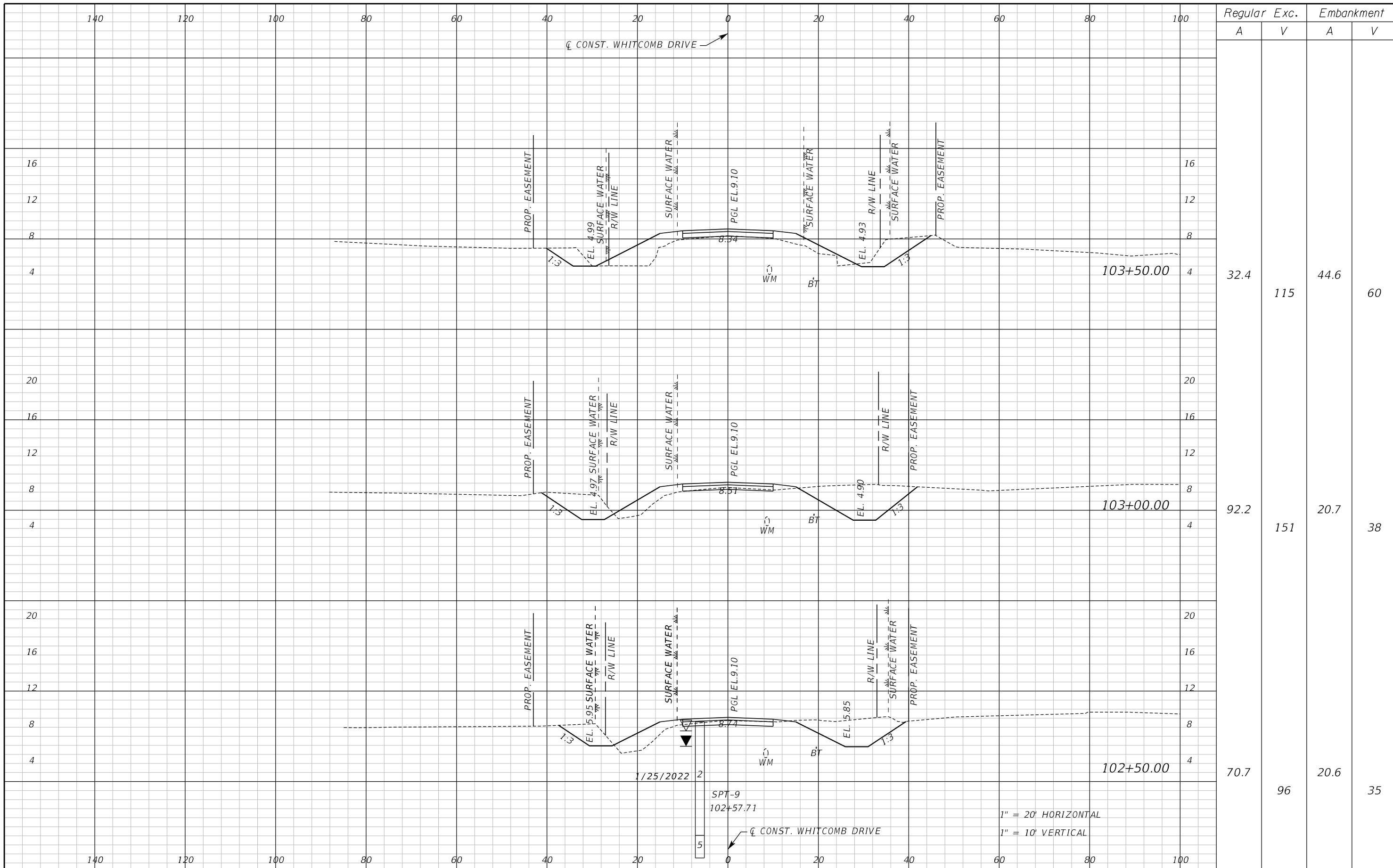
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
54

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Regular		Exc.		Embankment	
A	V	A	V	A	V
32.4	115	44.6	60		
92.2	151	20.7	38		
70.7	96	20.6	35		

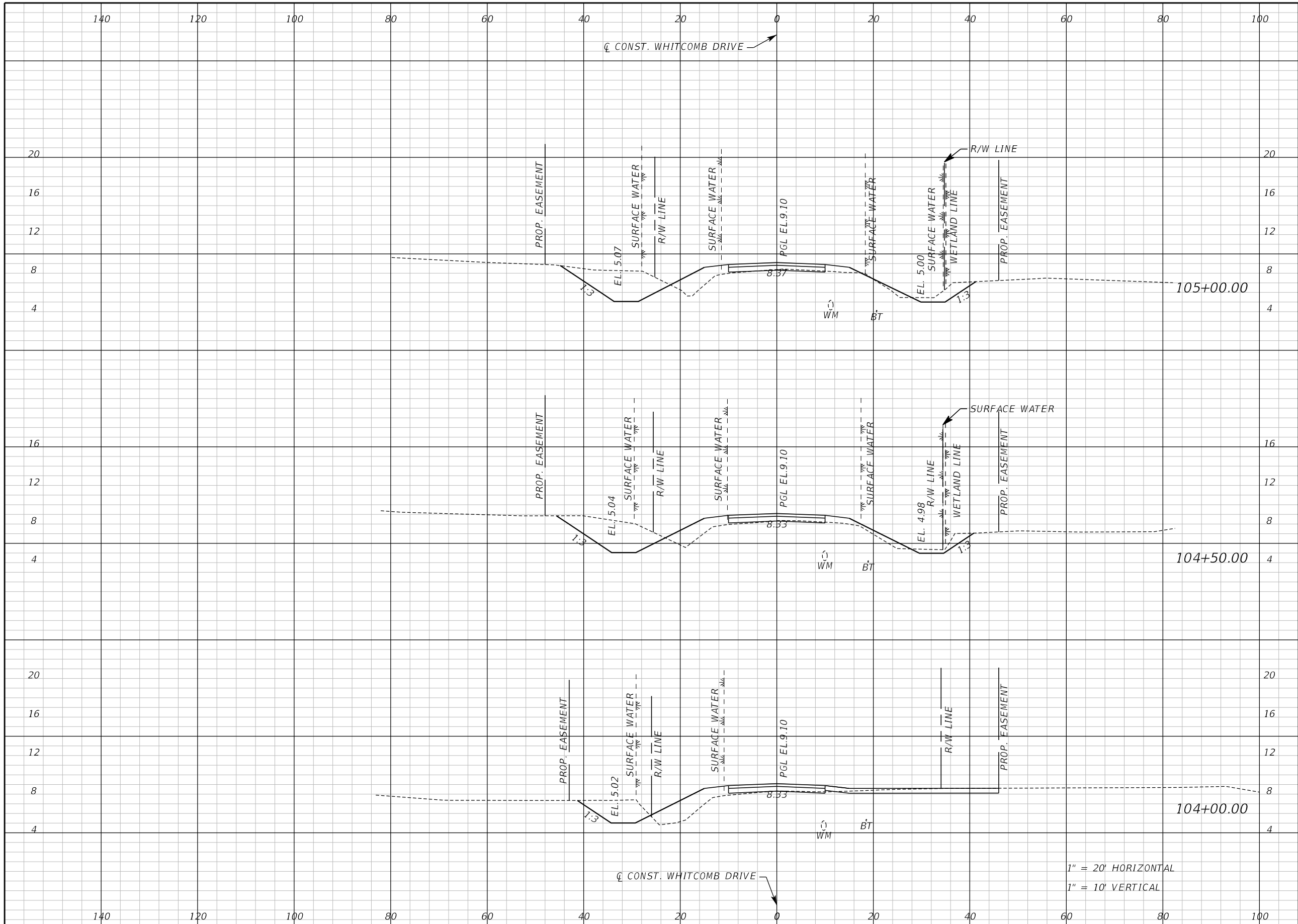
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers
Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074
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Oviedo, Florida 32765
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE
SHEET NO. 55

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Regular		Exc.		Embankment	
A	V	A	V	A	V
55.0	100	22.6	45		
52.6	84	26.2	49		
37.9	65	26.2	66		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

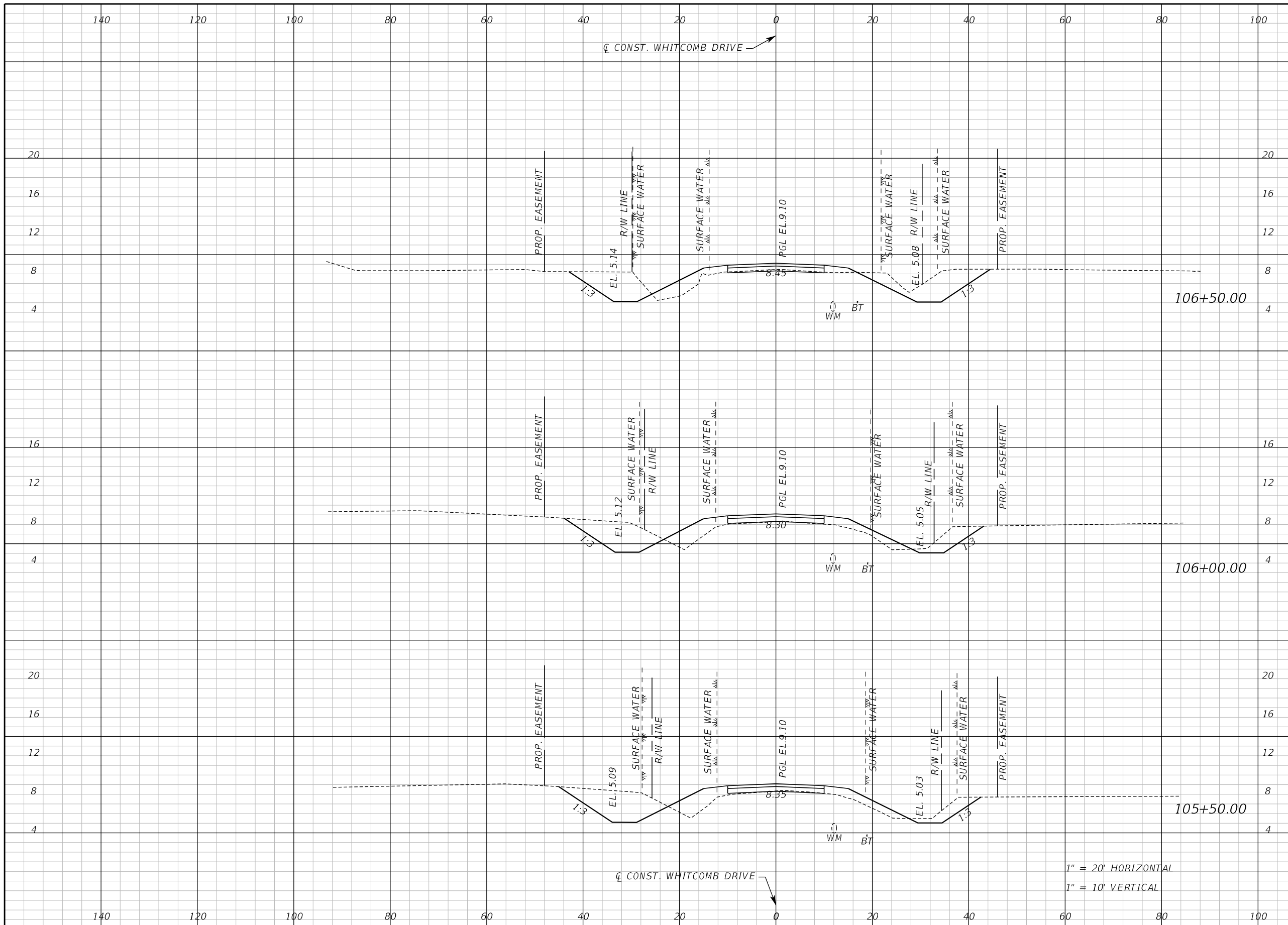
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
56

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
74.5	119	20.4	49		
54.4	104	32.5	60		
58.1	105	32.0	51		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

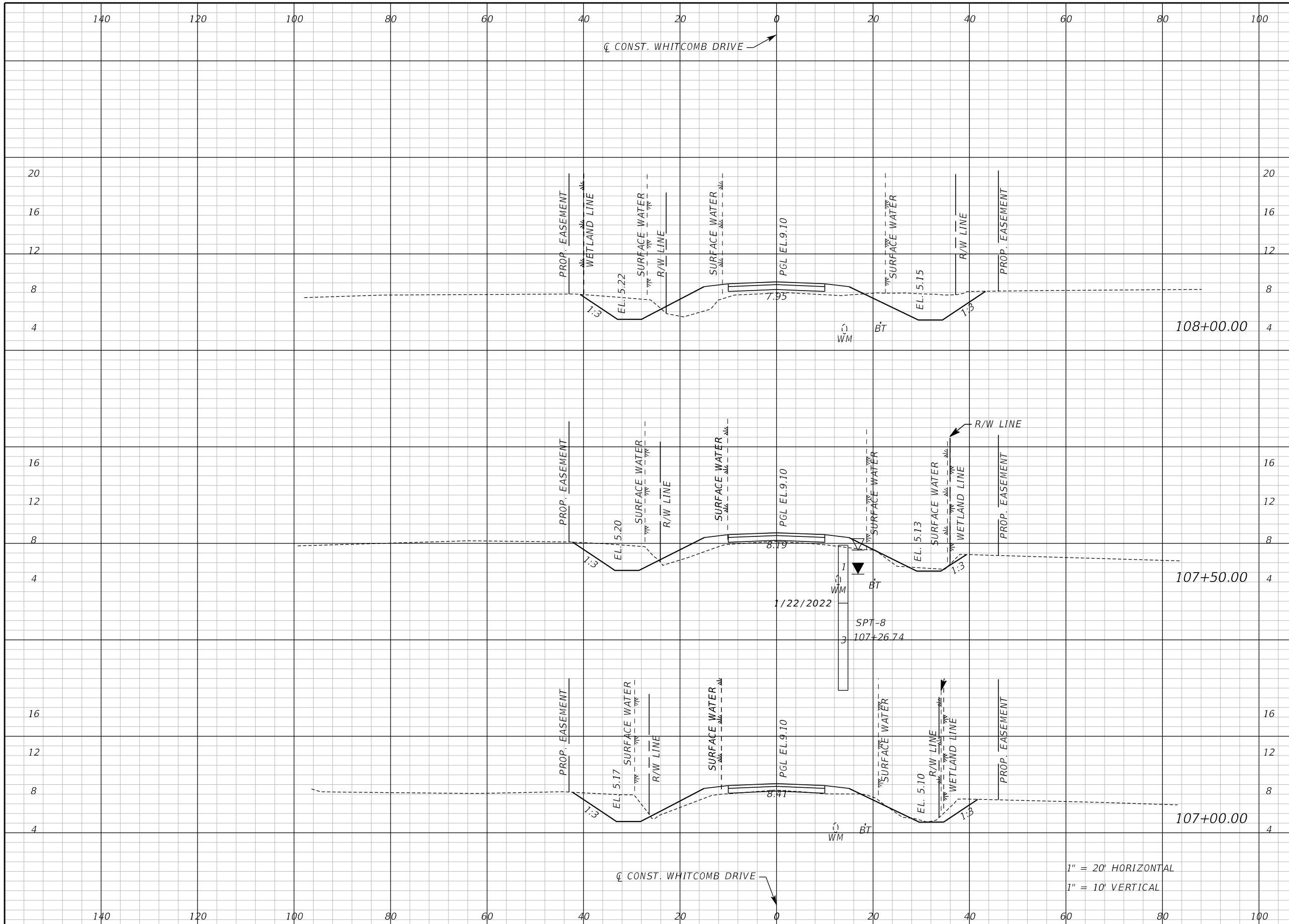
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
57

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
65.8	92	38.2	62		
33.5	66	29.1	42		
37.5	104	16.7	34		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

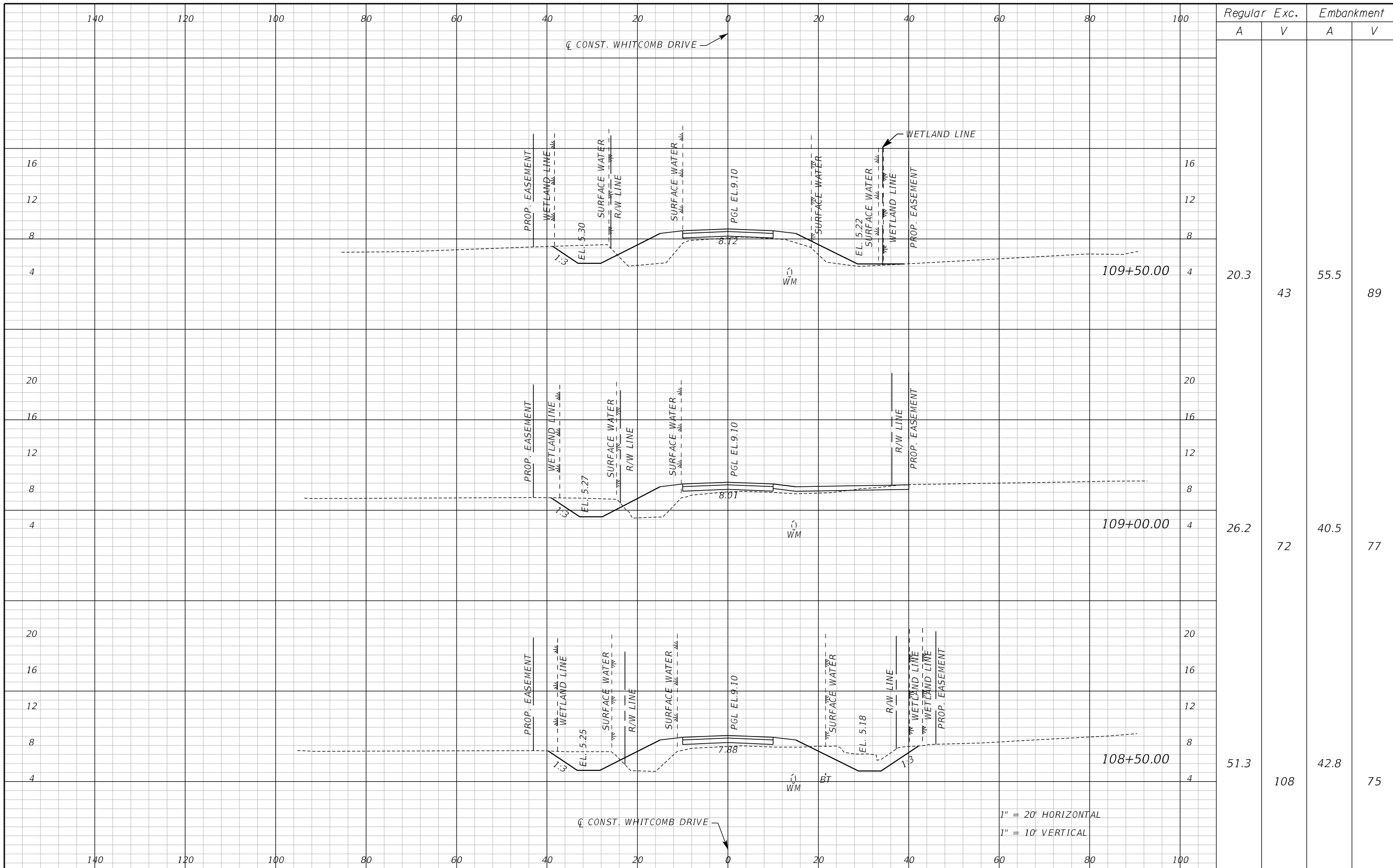
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Catherine L. Spiess, PE 3000 Dovera Drive, Suite 200
PE No. 62501 Oviedo, Florida 32765
Certificate of Authorization No. 7074 p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD NO. COUNTY CIP NO.
WHITCOMB DRIVE 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
58

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
20.3	43	55.5	89		
26.2	72	40.5	77		
51.3	108	42.8	75		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

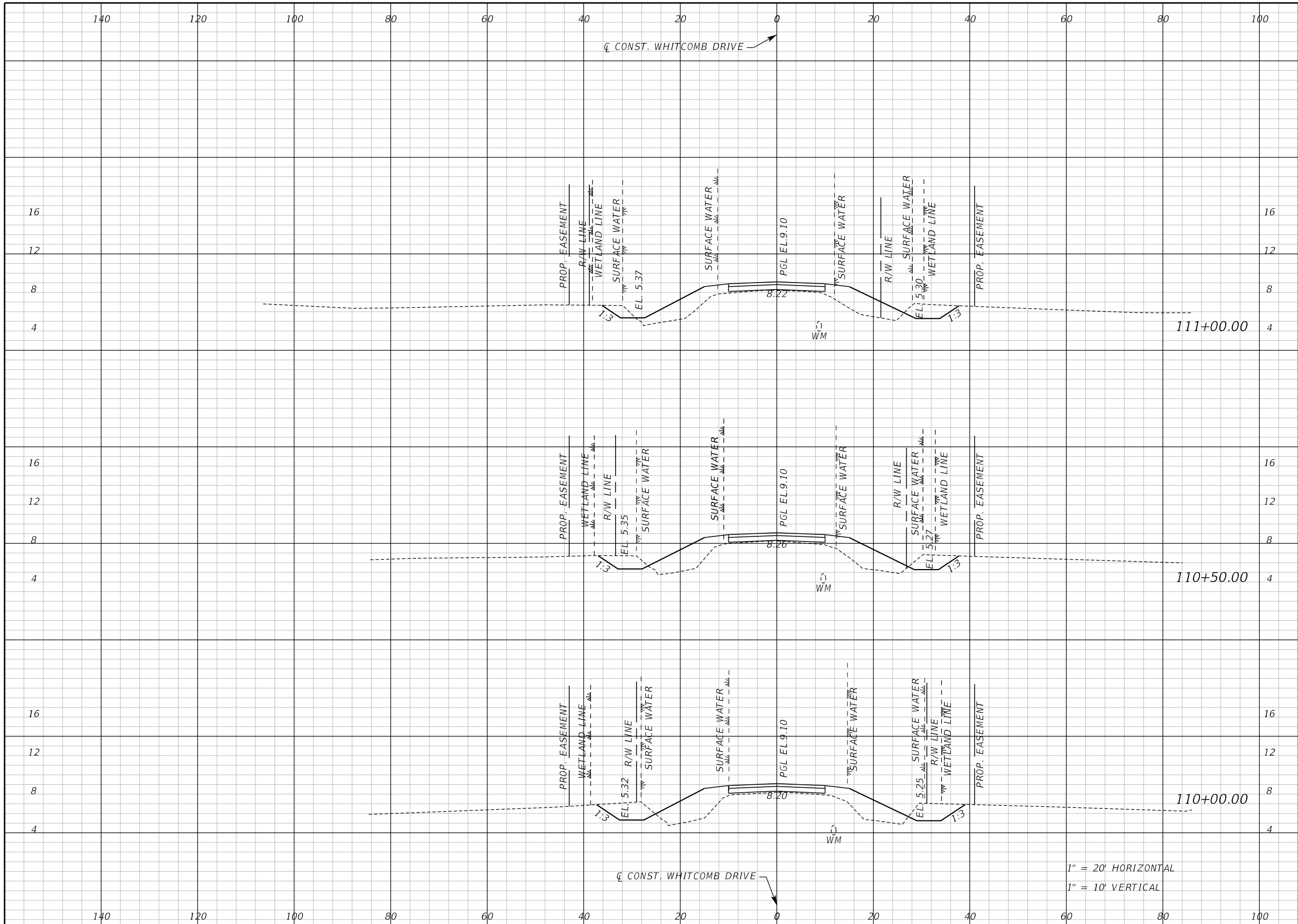
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO. 59

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
16.9	35	55.9	107		
20.6	47	59.7	111		
29.9	46	60.3	107		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

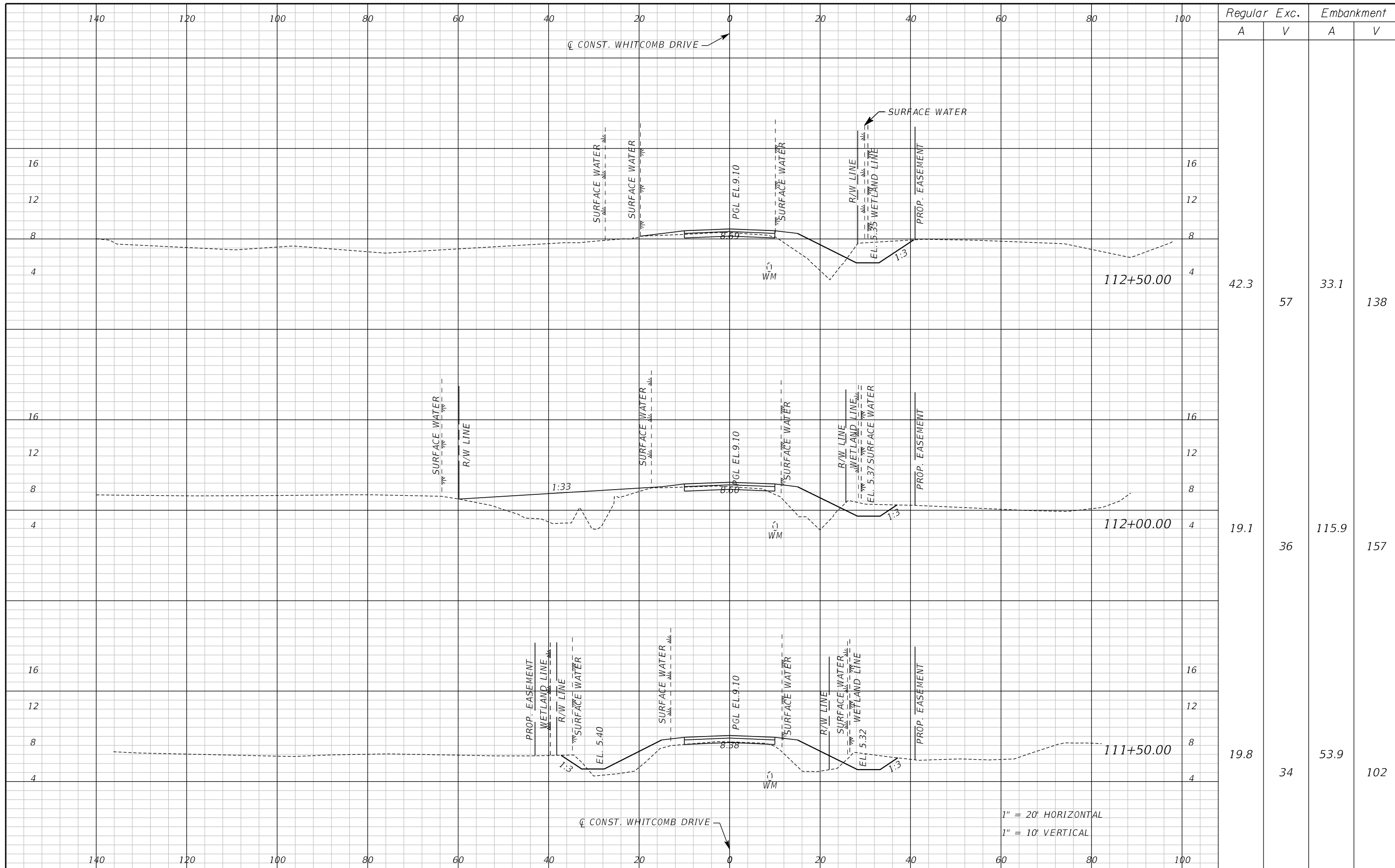
Inwood
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Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074
3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
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SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
60

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
42.3	57	33.1	138	19.1	36
19.8	34	53.9	102		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

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Oviedo, Florida 32765
p 407.971.8850

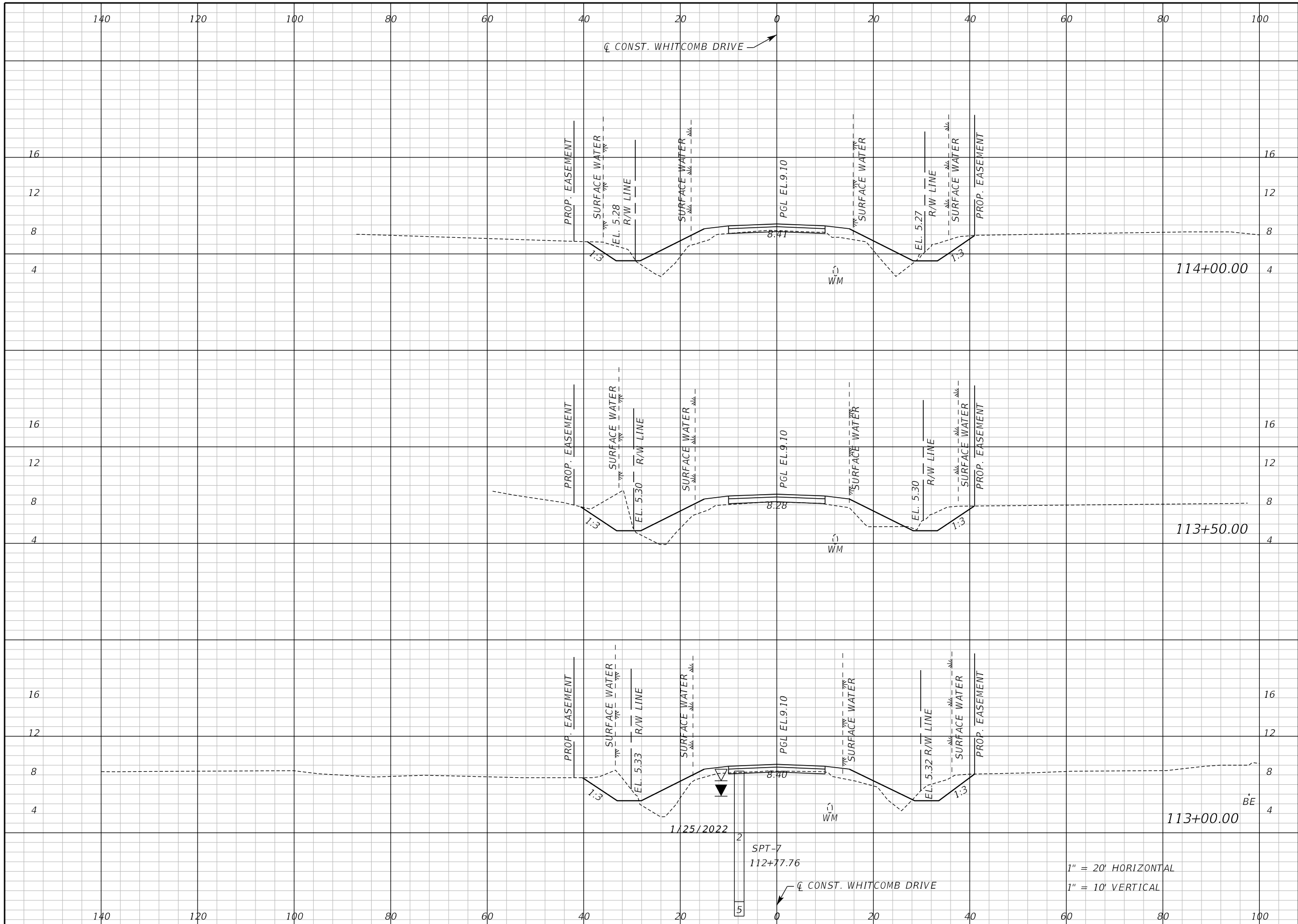
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO. 61

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
24.0	56	48.4	86		
36.9	67	44.8	80		
35.4	72	41.9	69		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

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Oviedo, Florida 32765
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SEMINOLE COUNTY
ENGINEERING DIVISION

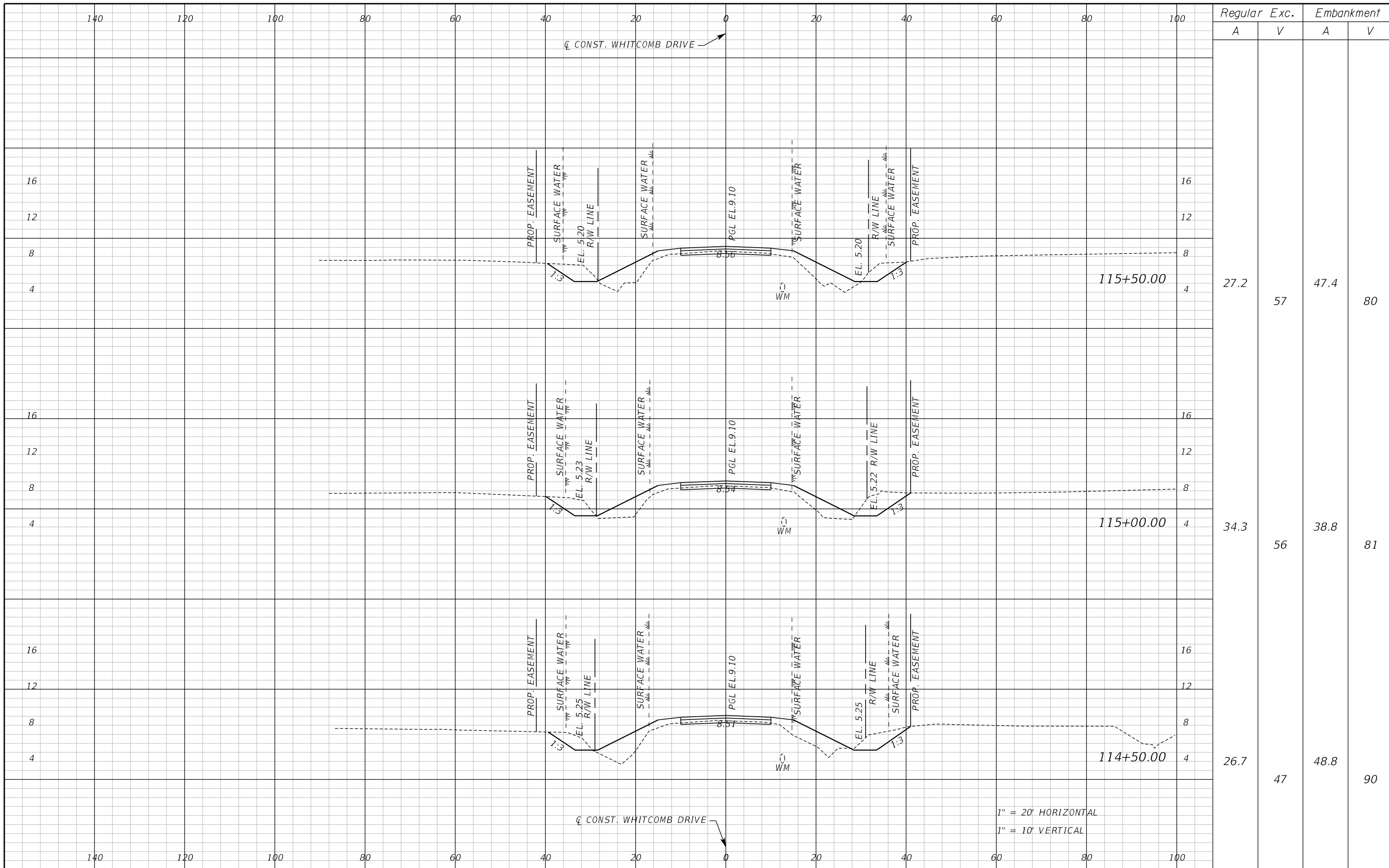
ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO. 62

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

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
27.2	57	47.4	80		
34.3	56	38.8	81		
26.7	47	48.8	90		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
PE No. 62501
Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
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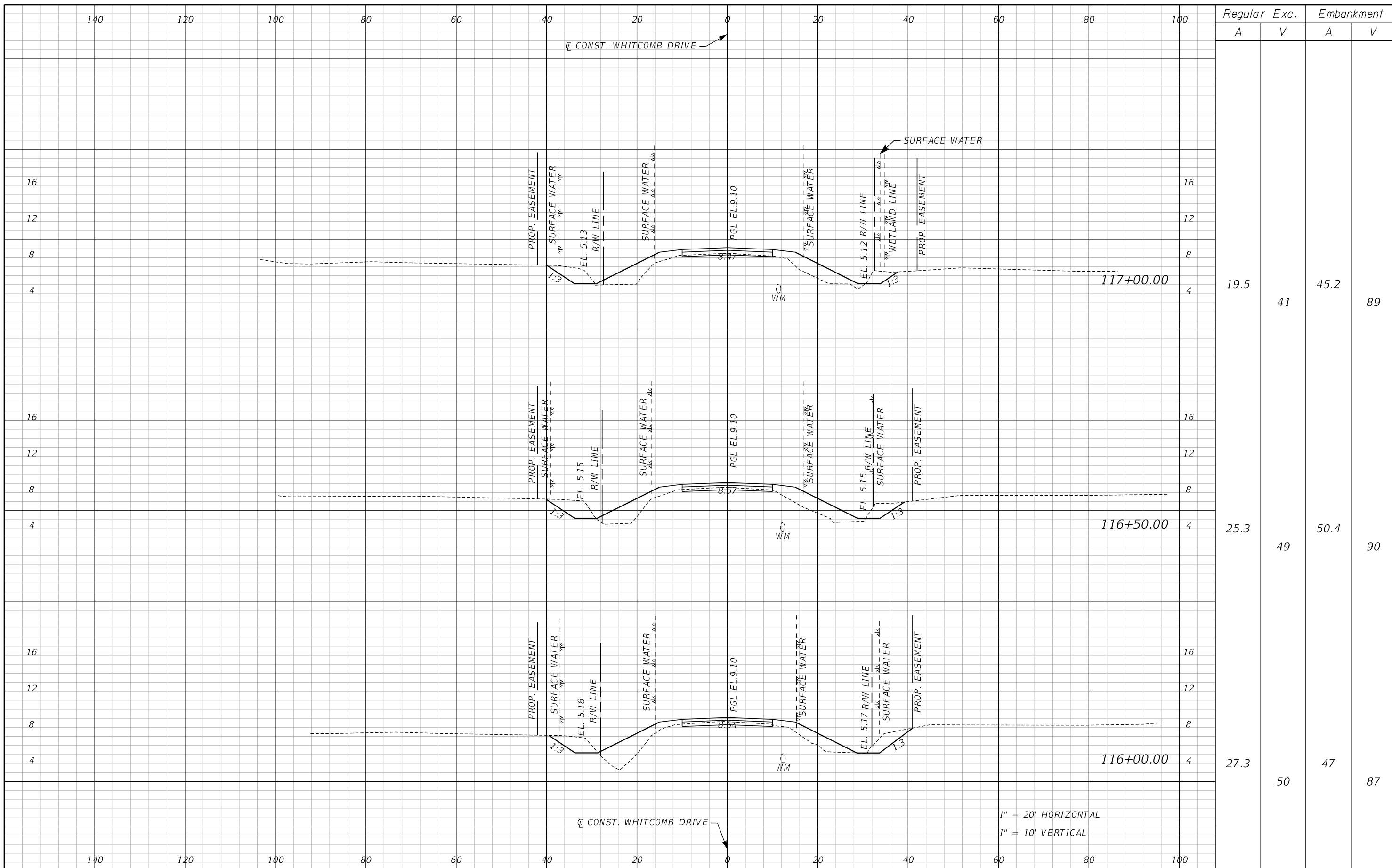
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO. 63

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
19.5	41	45.2	89		
25.3	49	50.4	90		
27.3	50	47	87		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SEMINOLE COUNTY
ENGINEERING DIVISION

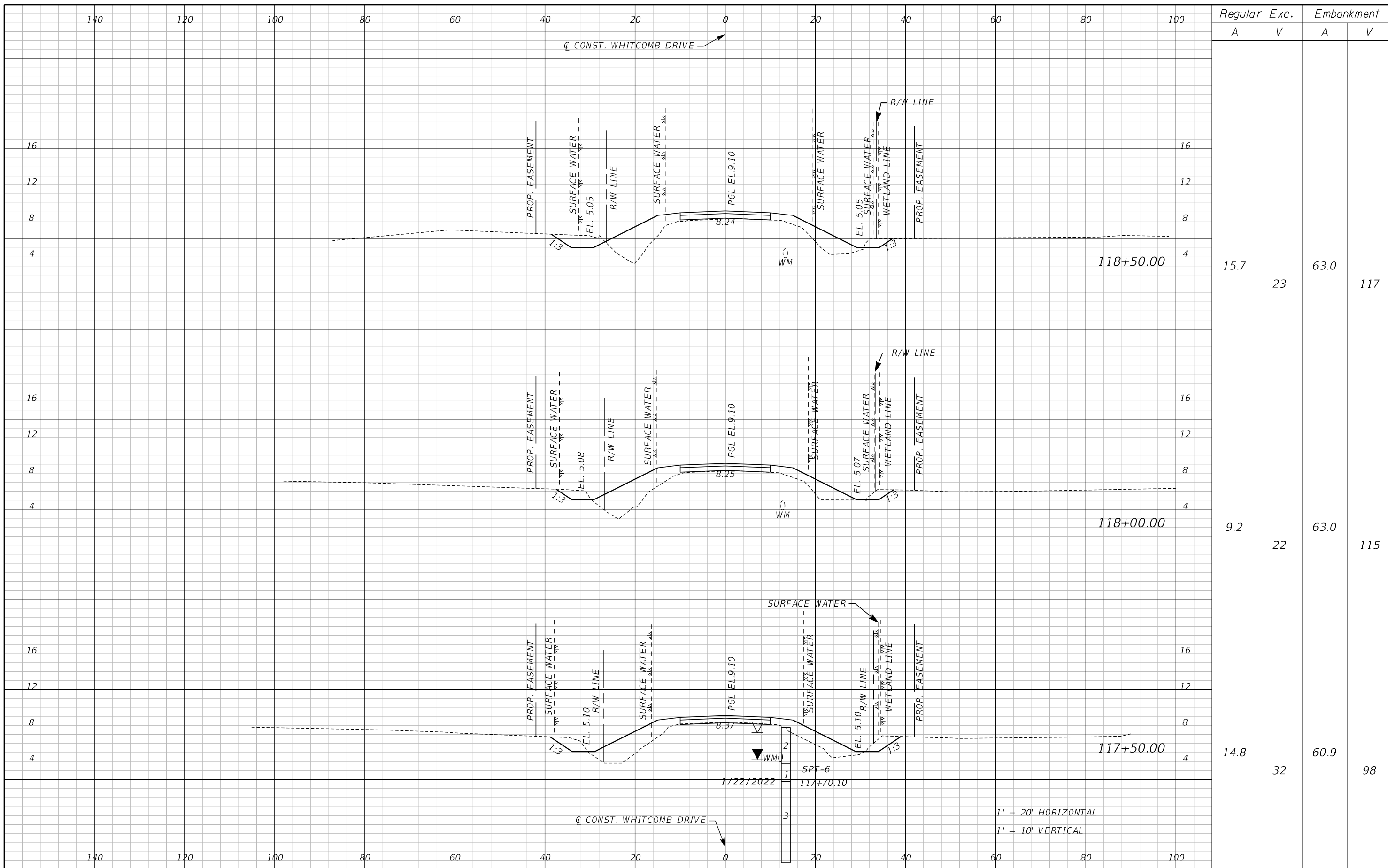
ROAD NO. WHITCOMB DRIVE

COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
64

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



Regular		Exc.	Embankment	
A	V		A	V
15.7	23		63.0	117
9.2	22		63.0	115
14.8	32		60.9	98

REVISIONS					
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ENGINEERING DIVISION

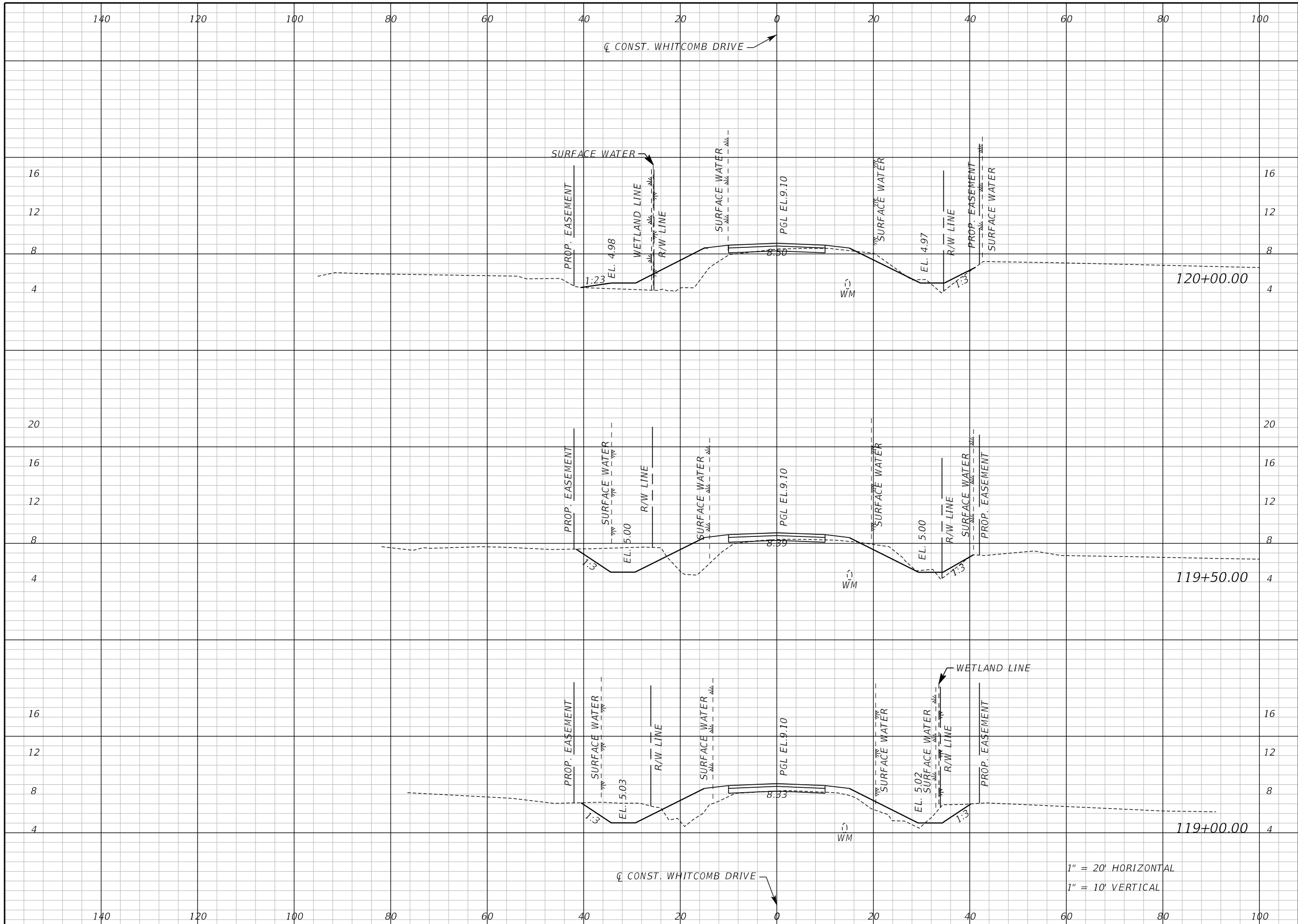
ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO. 65

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

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Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
120+00.00	8.5	47	53.4	82		
119+50.00	42.5	70	35.5	71		
119+00.00	32.6	45	40.9	96		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

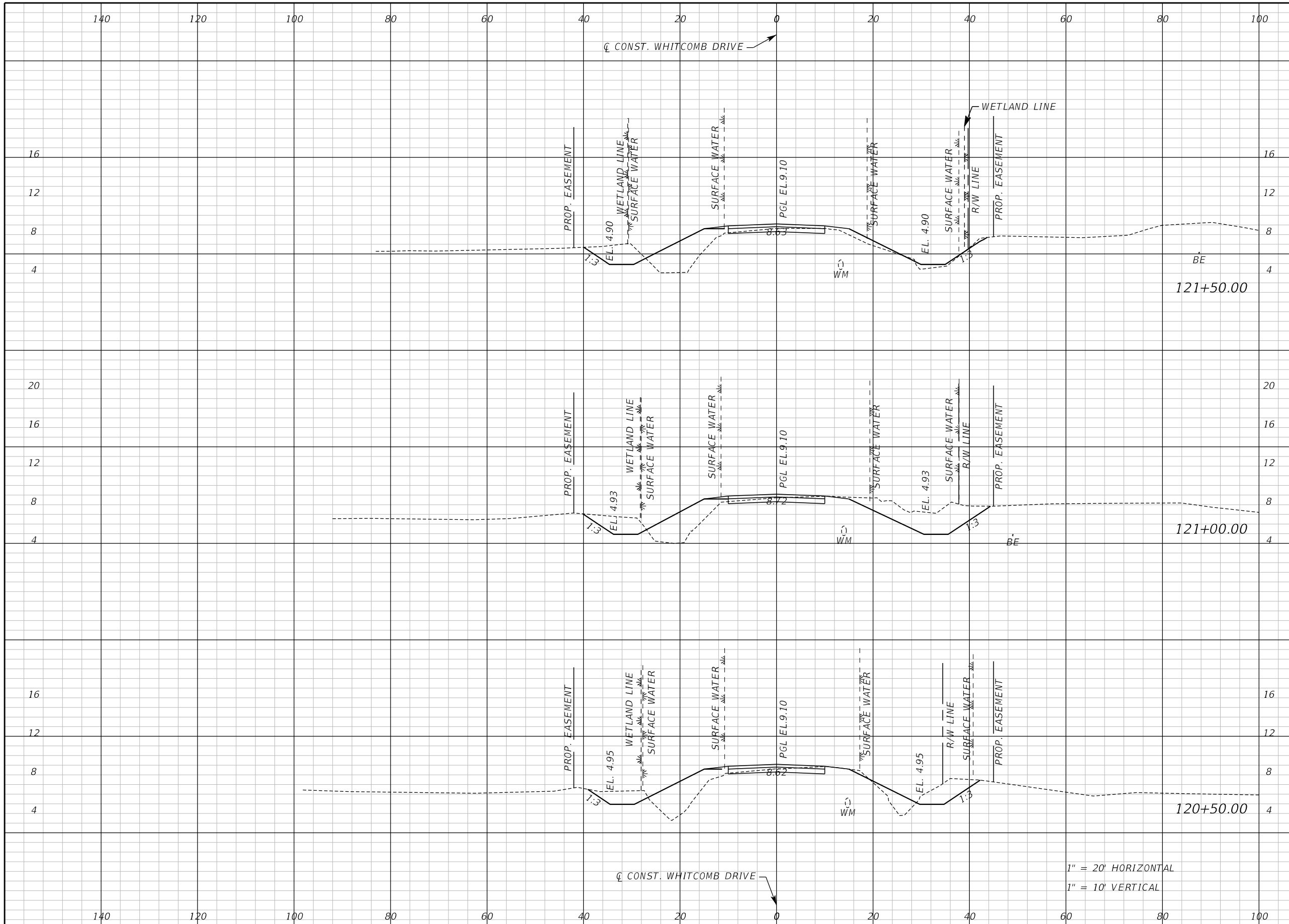
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SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD NO. COUNTY CIP NO.
WHITCOMB DRIVE 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
66

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Regular		Exc.		Embankment	
A	V	A	V	A	V
24.8	91	45.4	73		
73.6	103	33.5	72		
38.1	43	44.4	91		

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

REVISIONS					
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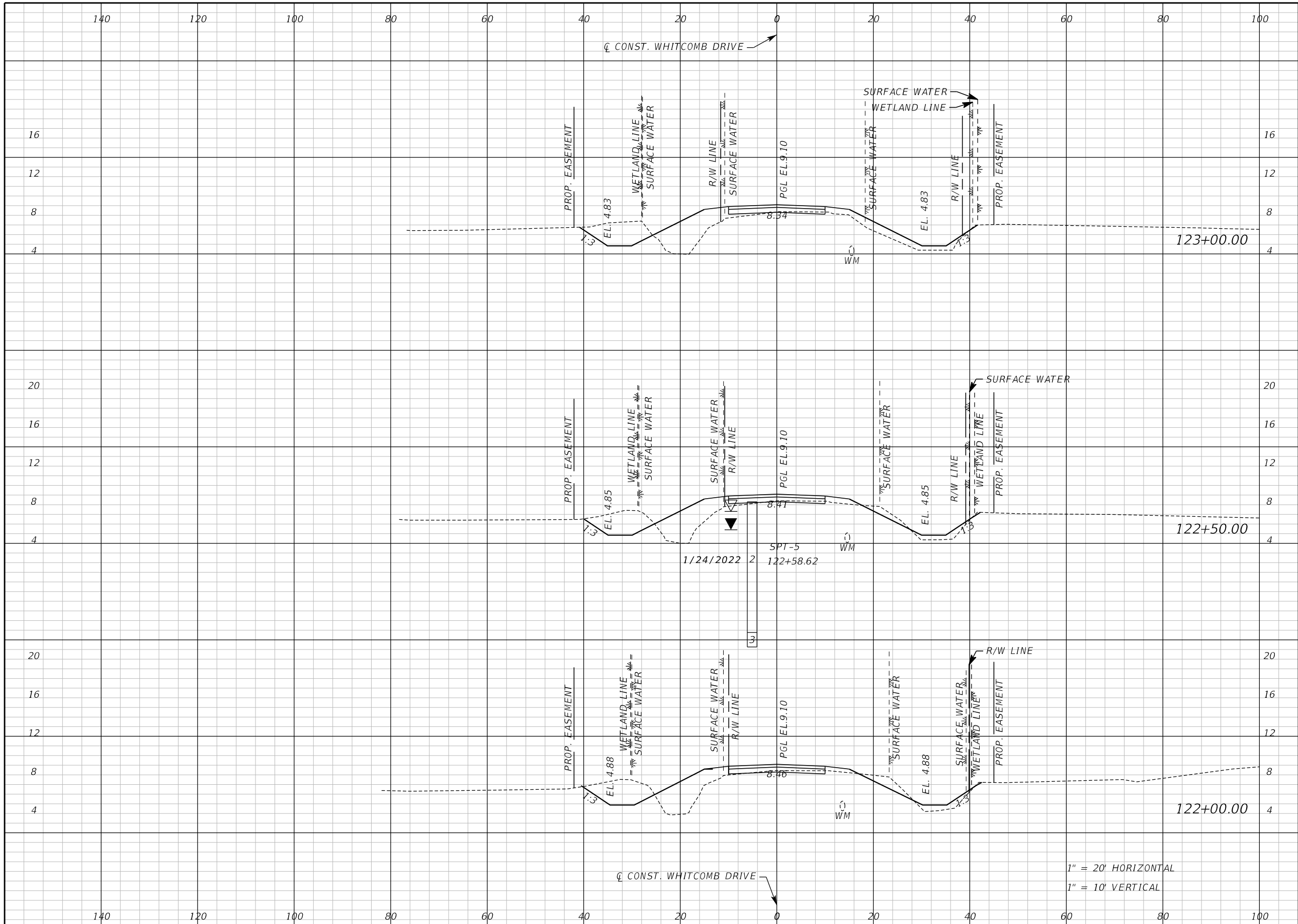
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
67

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Regular		Exc.		Embankment	
A	V	A	V	A	V
27.3	54	57.3	94		
31.2	62	44.4	80		
36.2	56	42.2	81		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

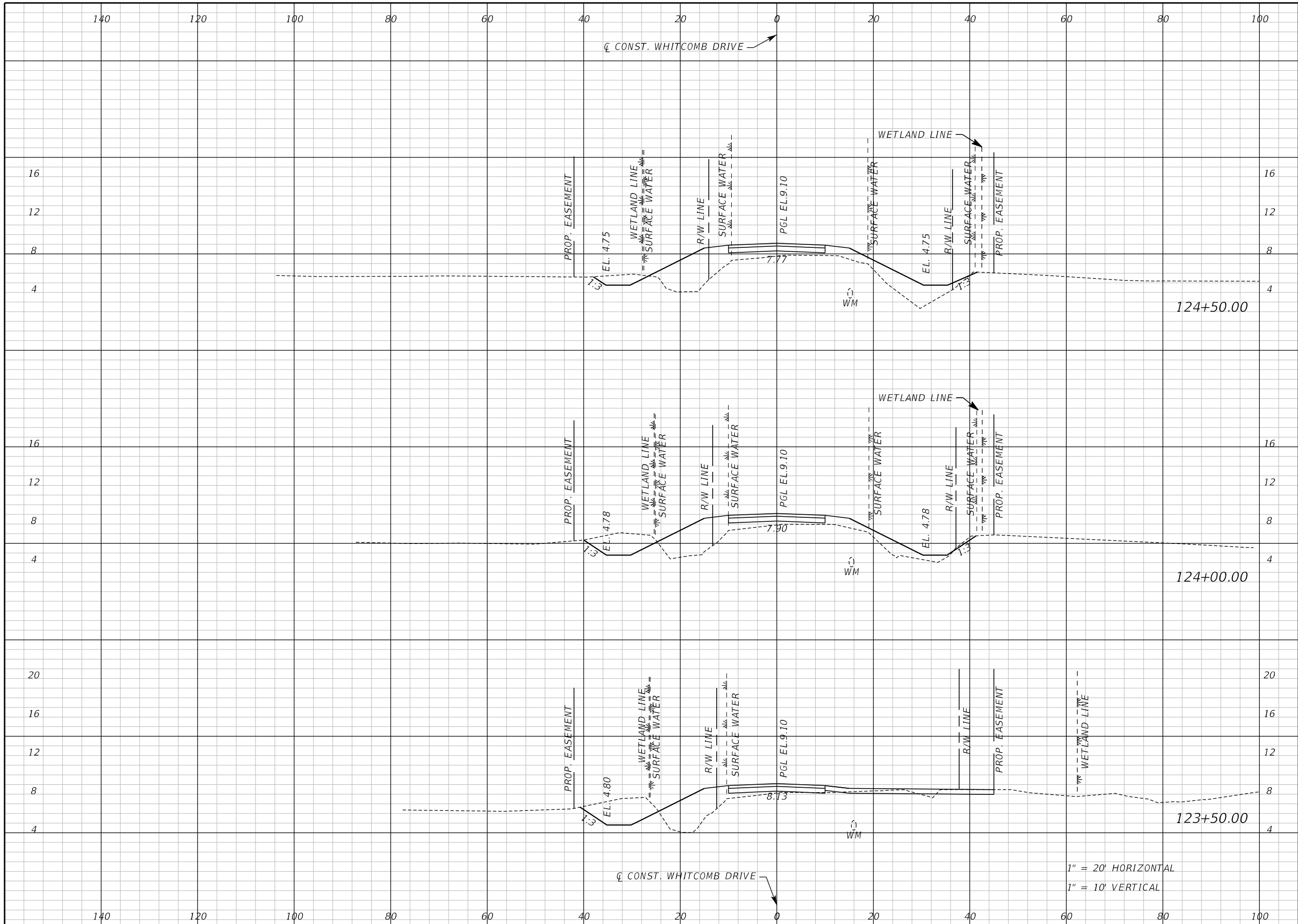
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SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD NO. COUNTY CIP NO.
WHITCOMB DRIVE 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
68

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
8.9	31	94.1	150		
24.3	59	68.4	104		
39.8	62	43.5	93		

REVISIONS					
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ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE

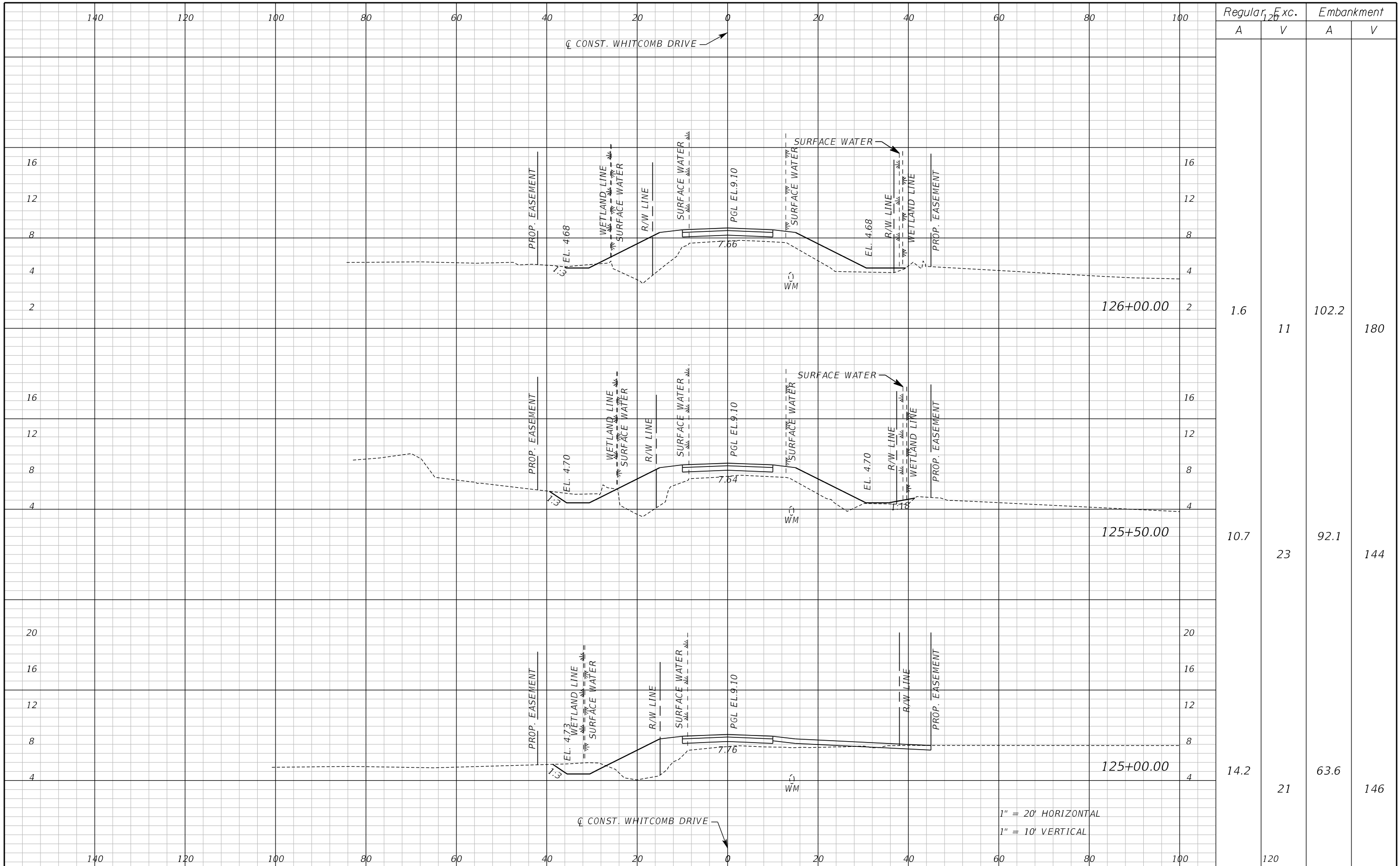
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
69

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

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
1.6	11	102.2	180		
10.7	23	92.1	144		
14.2	21	63.6	146		
120					

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

REVISIONS					
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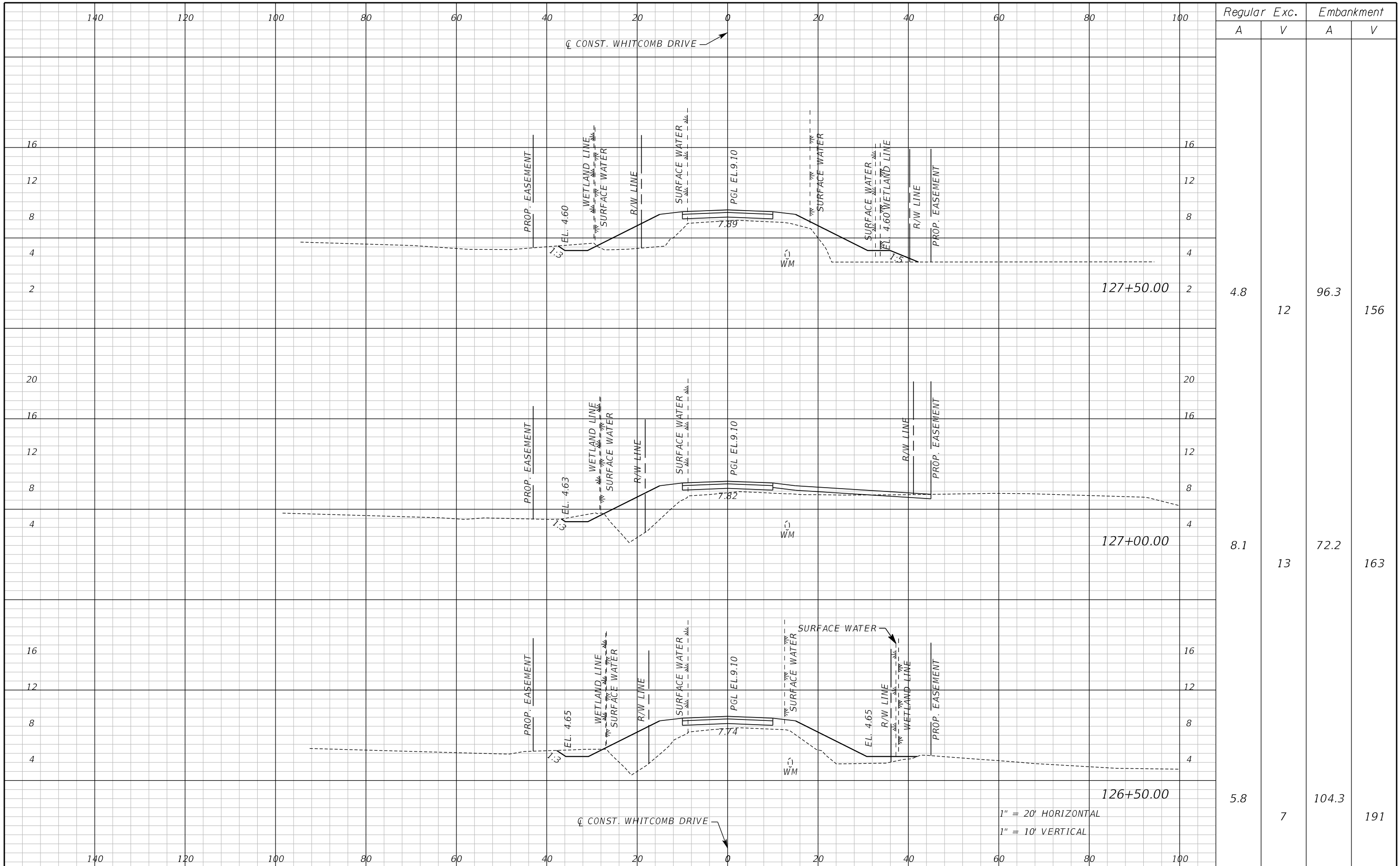
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
70

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
4.8	12	96.3	156		
8.1	13	72.2	163		
5.8	7	104.3	191		

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ROAD NO. WHITCOMB DRIVE

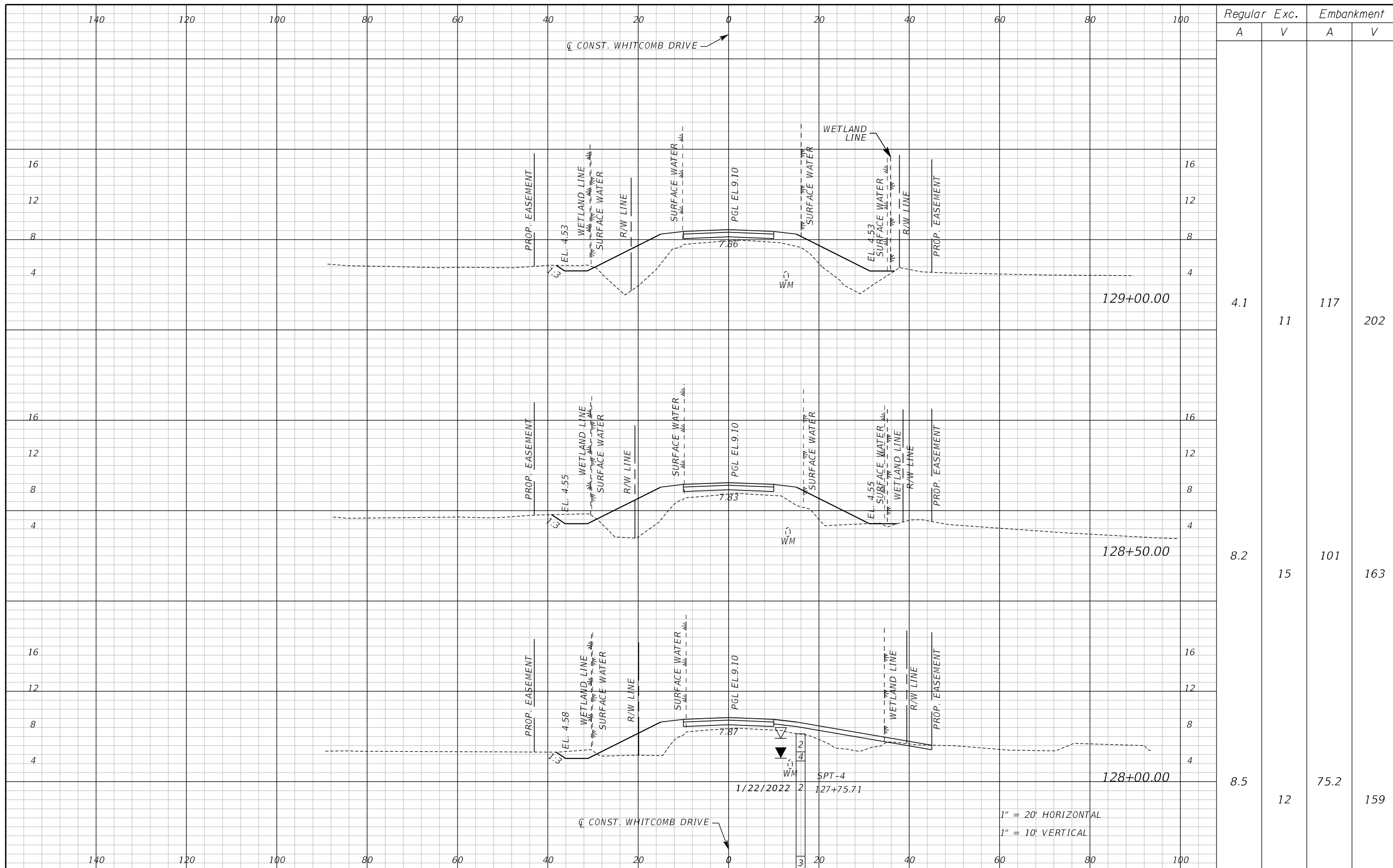
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
71

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

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Regular		Exc.		Embankment	
A	V	A	V	A	V
4.1	11	117	202		
8.2	15	101	163		
8.5	12	75.2	159		

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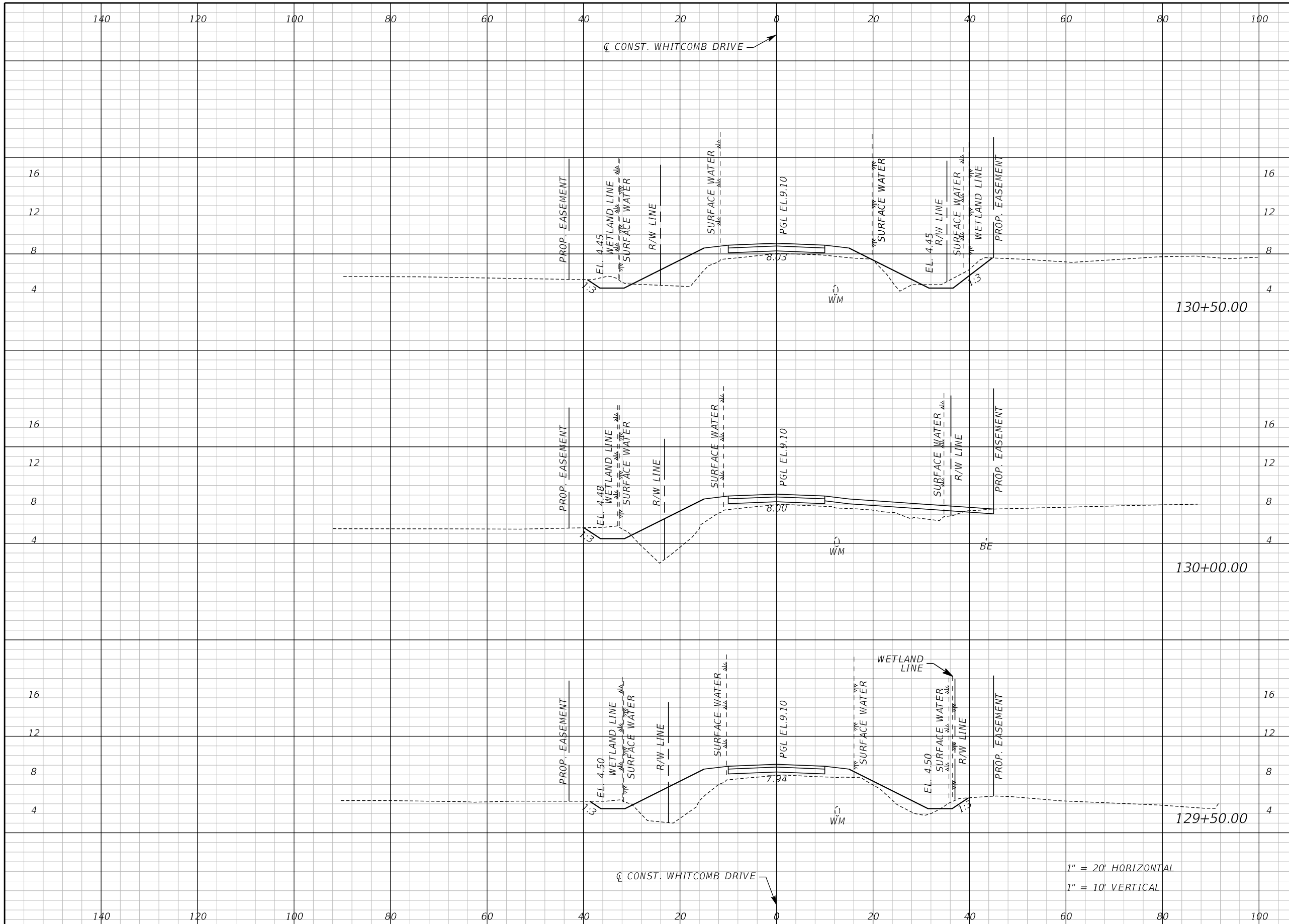
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO. 72

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
15.0	24	59.0	130		
10.4	17	81.5	150		
8.0	11	80.2	183		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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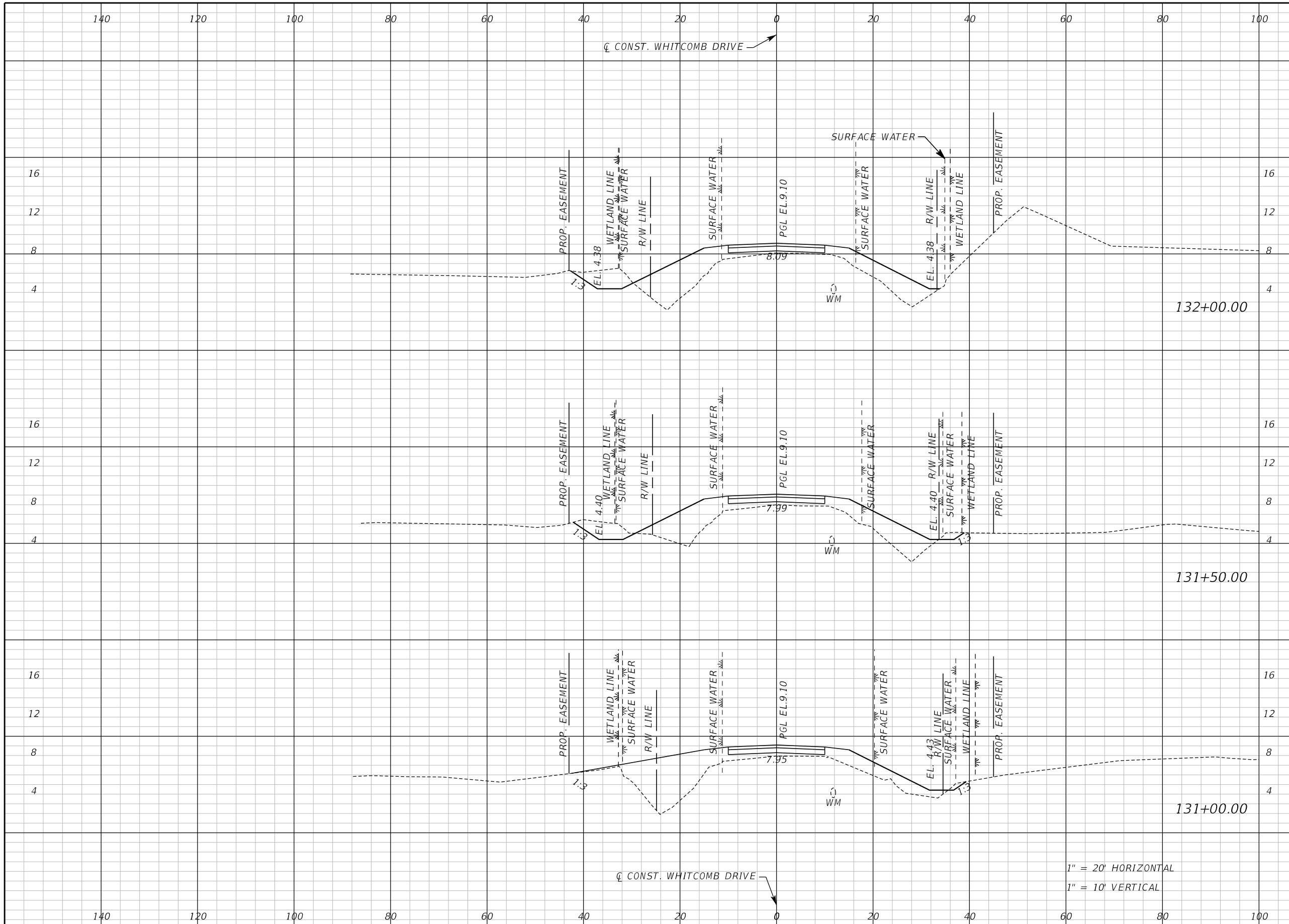
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
73

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Regular		Exc.		Embankment	
A	V	A	V	A	V
17.2	32	99.0	180		
17.5	17	94.9	195		
1.0	15	115.3	161		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

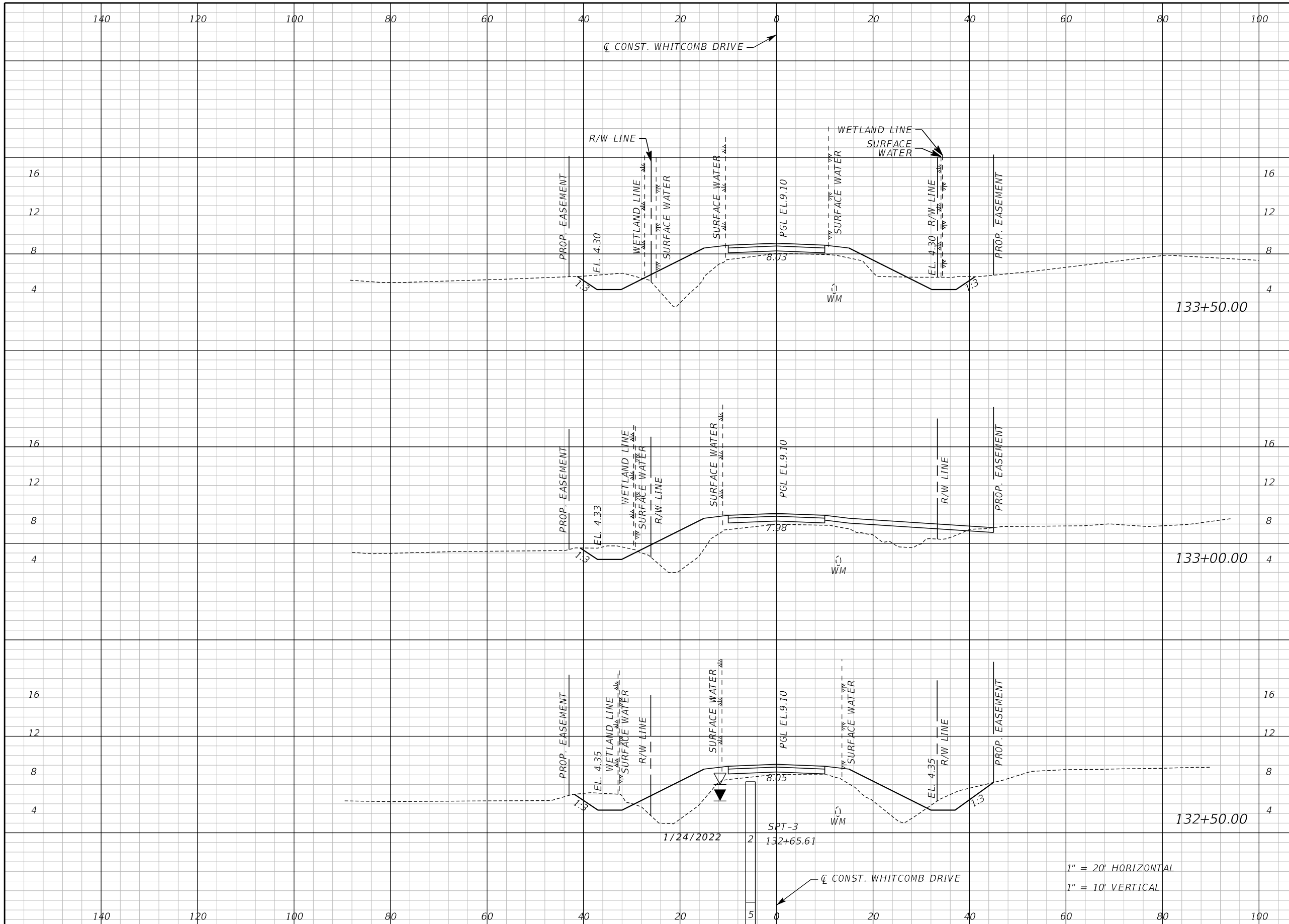
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ENGINEERING DIVISION
ROAD NO. COUNTY CIP NO.
WHITCOMB DRIVE 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
74

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
27.2	37	70.6	150		
12.7	38	91.2	173		
28.3	42	95.2	180		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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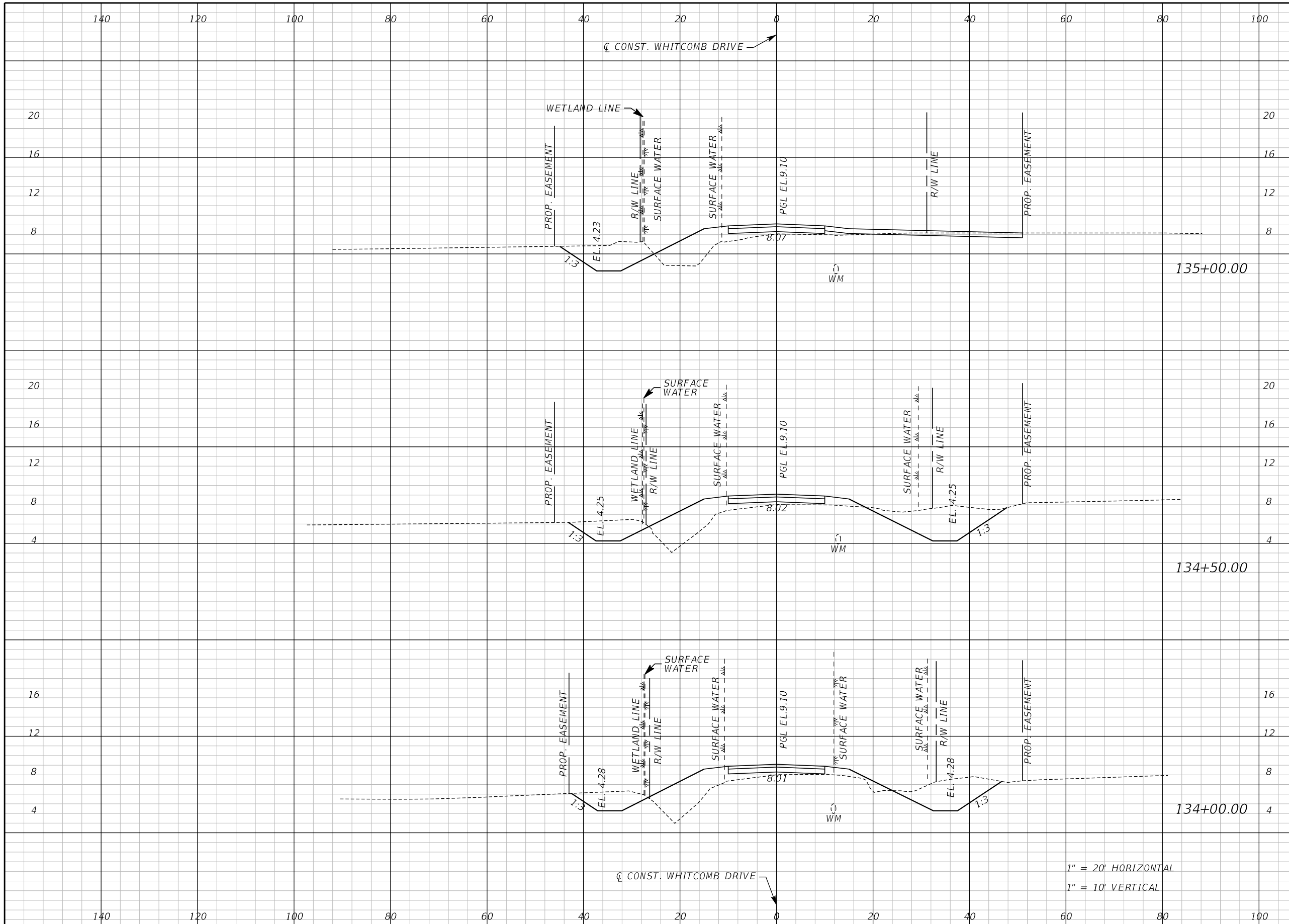
SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD NO. COUNTY CIP NO.
WHITCOMB DRIVE 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
75

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

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
46.4	117	42.8	90		
79.6	133	54.8	104		
64.3	85	57.8	119		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SEMINOLE COUNTY
ENGINEERING DIVISION

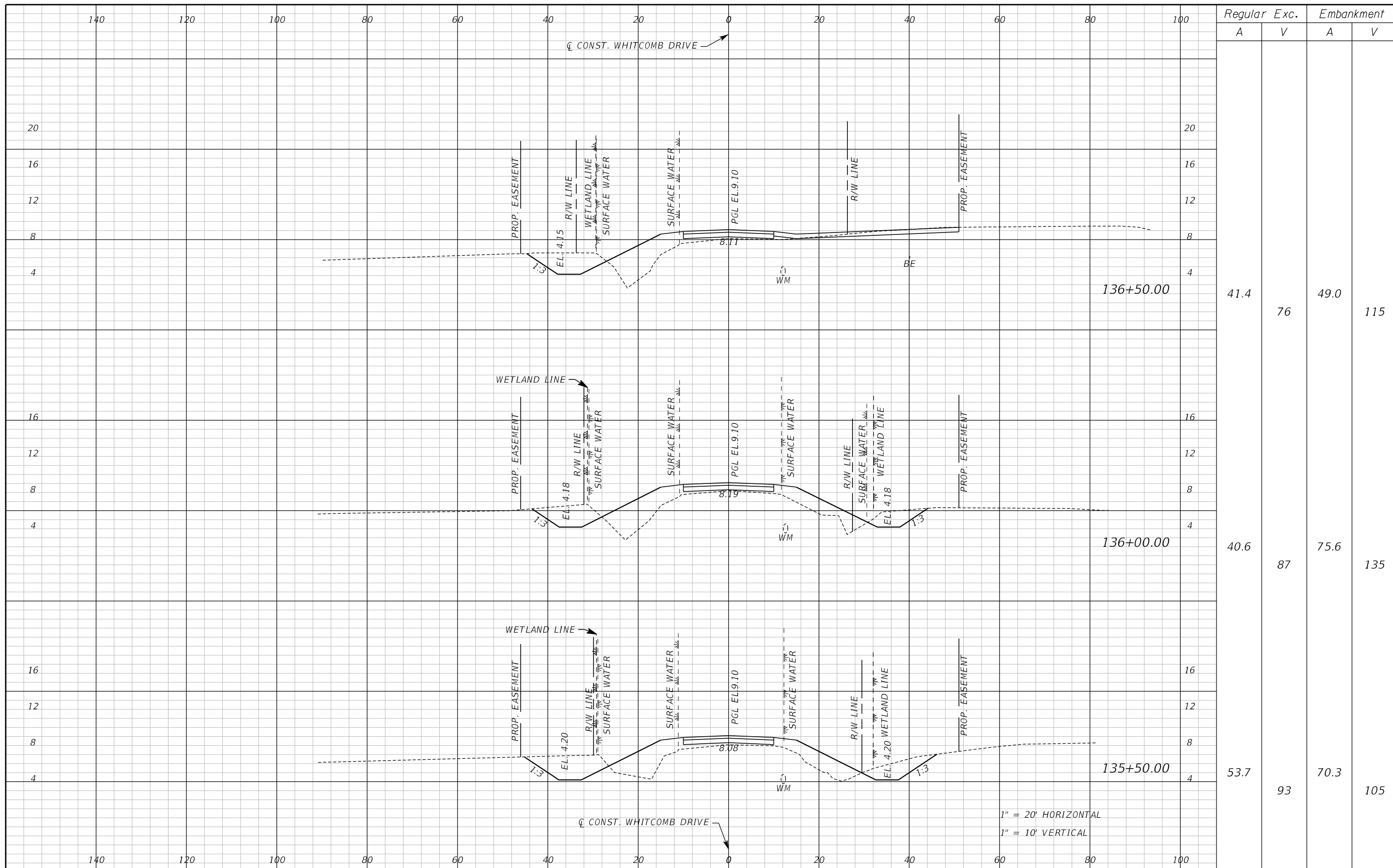
ROAD NO. WHITCOMB DRIVE

COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
76

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
41.4	76	49.0	115		
40.6	87	75.6	135		
53.7	93	70.3	105		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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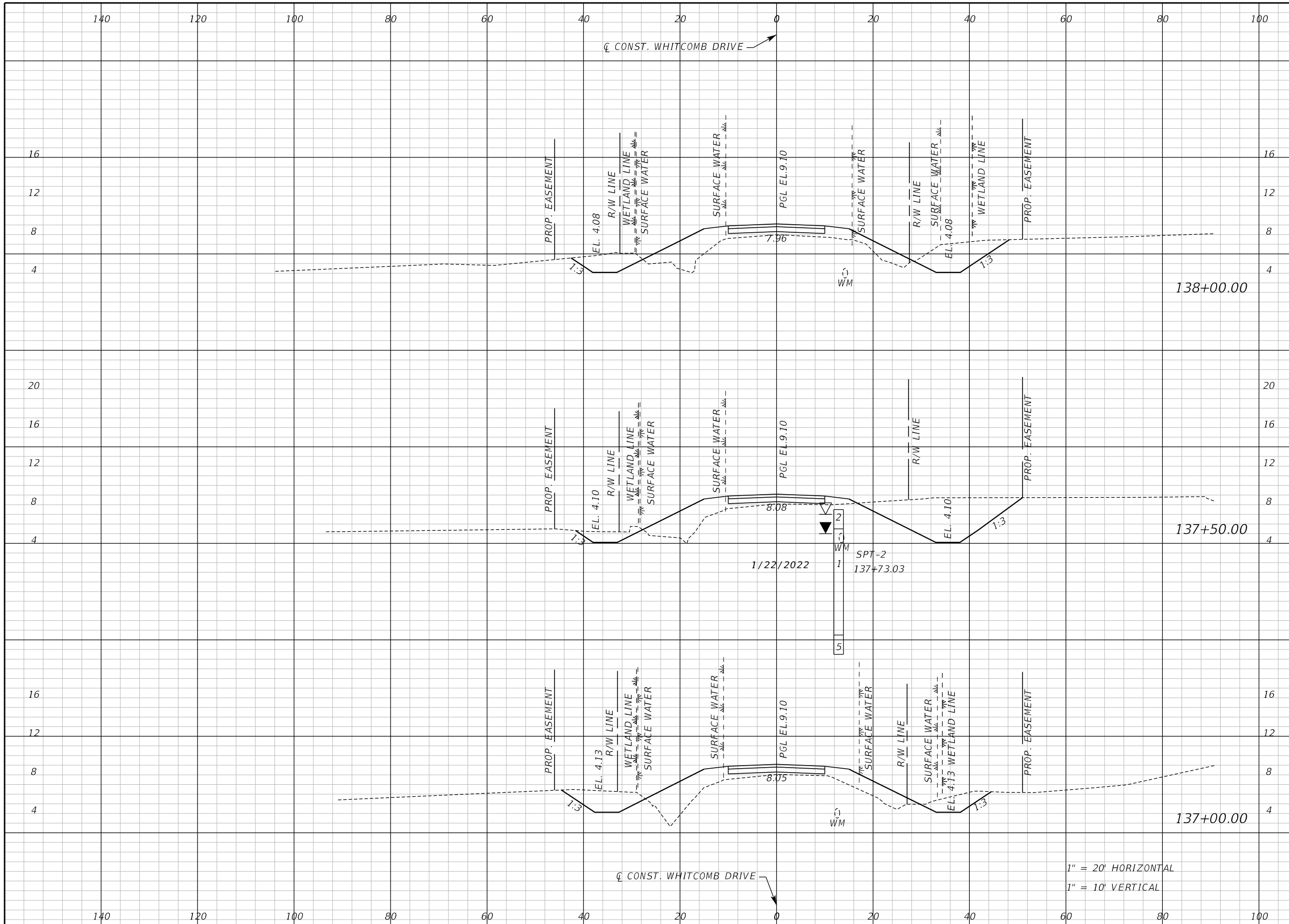
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO. 77

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
56.4	147	63.2	100		
102.2	134	44.6	107		
42.4	78	70.9	111		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

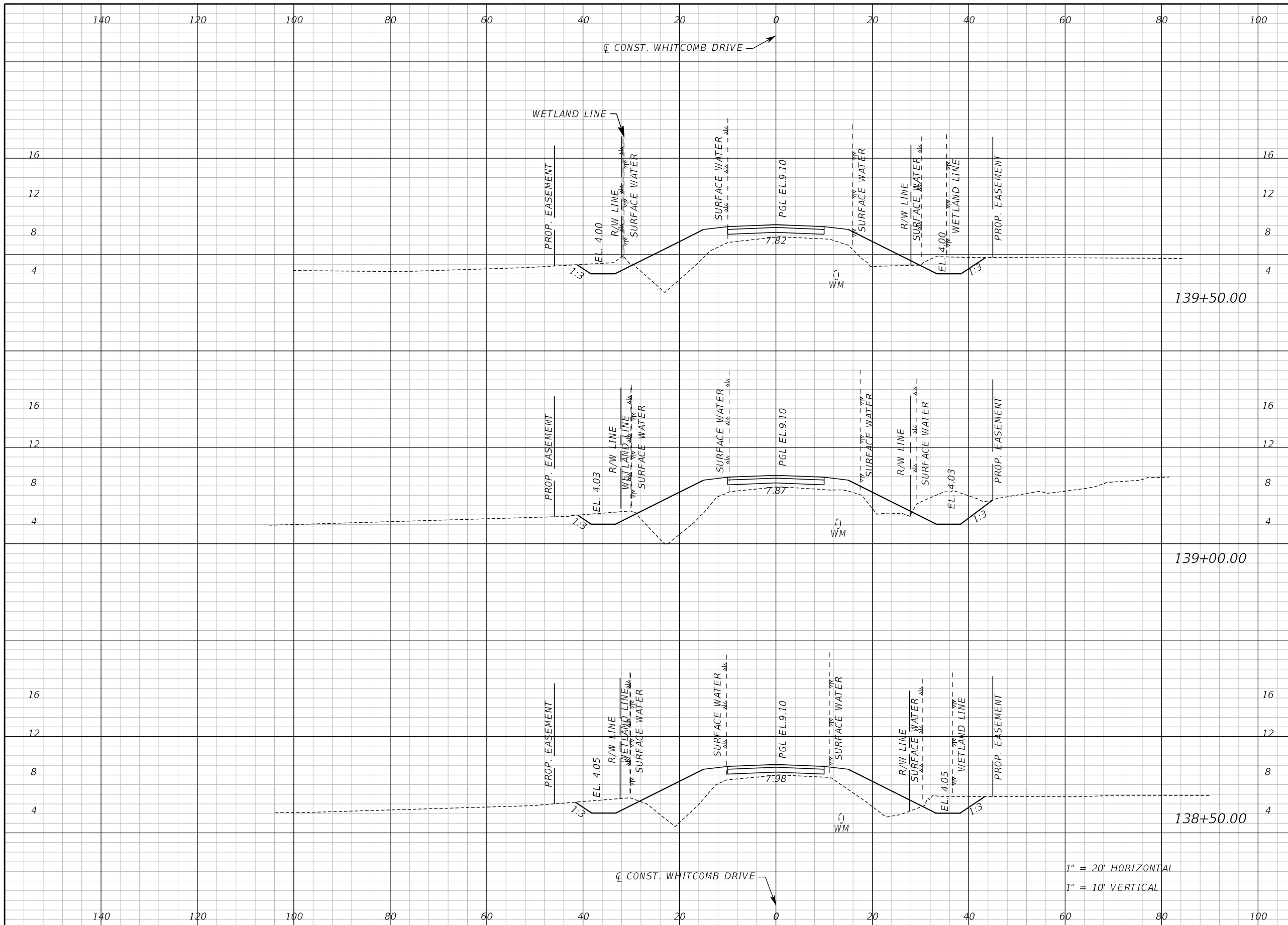
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COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
78

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Regular		Exc.		Embankment	
A	V	A	V	A	V
27.1	67	97.5	174		
45.6	69	90.5	171		
29.2	79	94.7	146		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

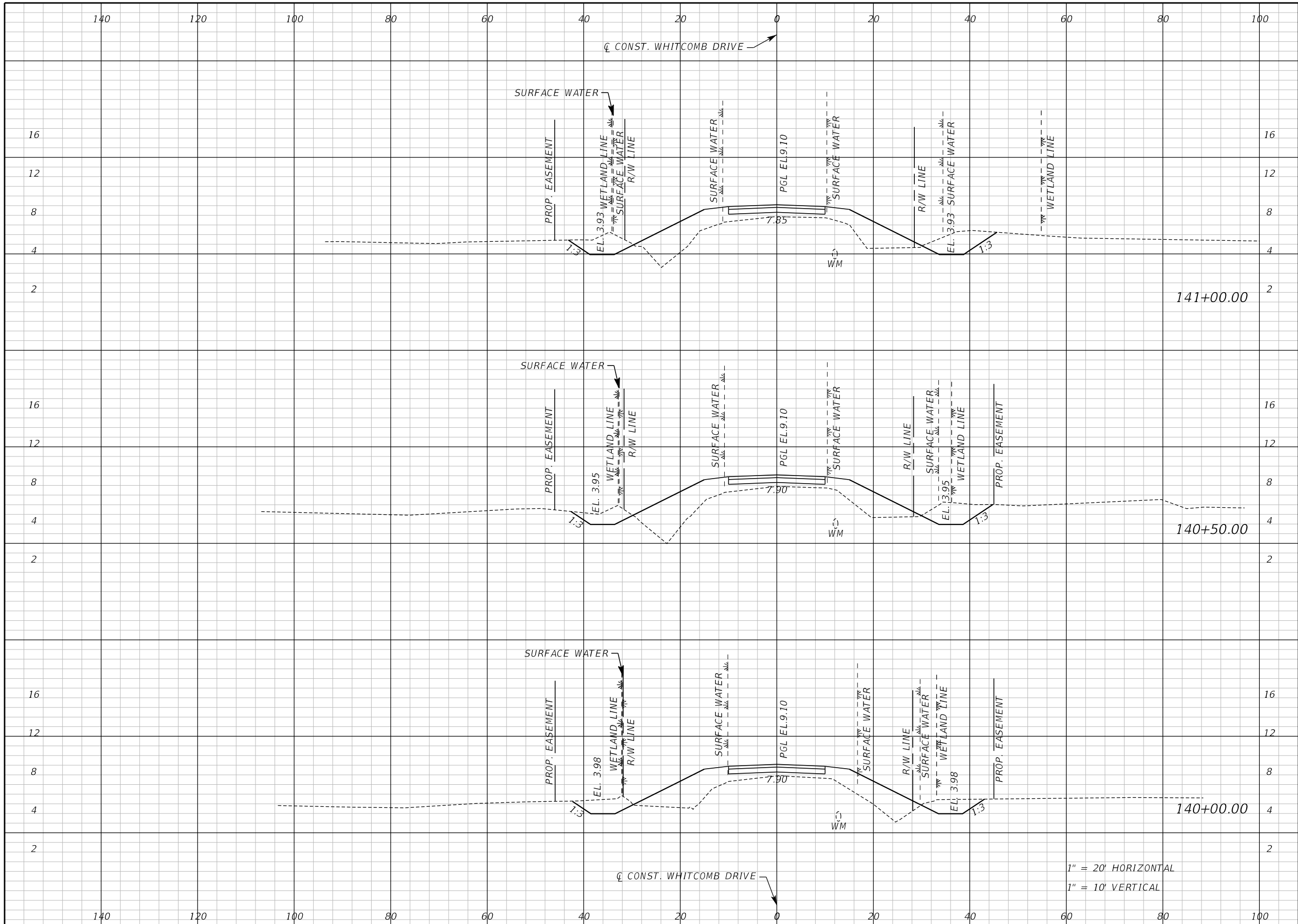
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SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD NO. COUNTY CIP NO.
WHITCOMB DRIVE 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
79

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
39.7	69	88.8	170		
34.3	57	94.9	171		
27.6	51	89.9	174		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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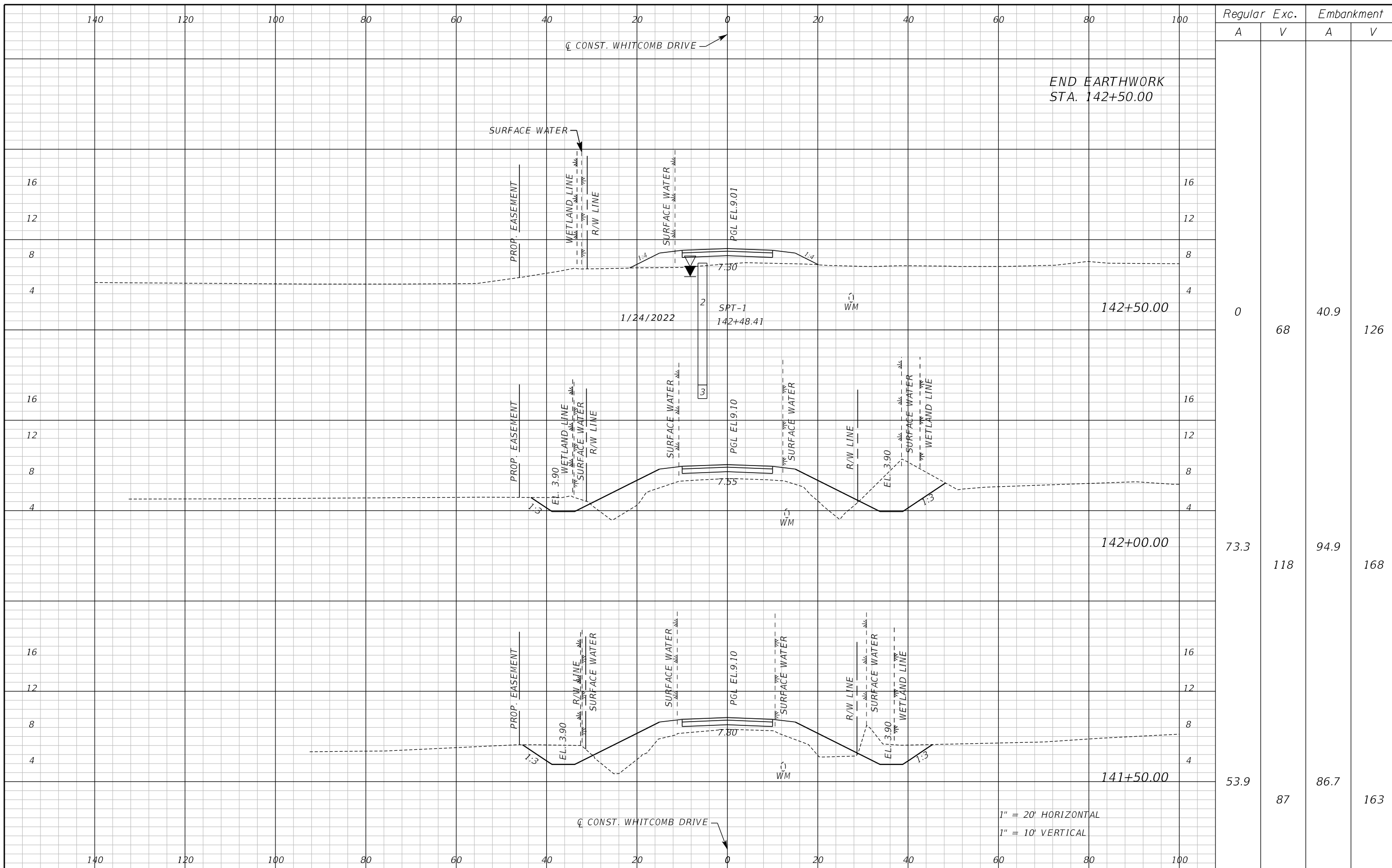
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ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO.
80

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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ENGINEERING DIVISION

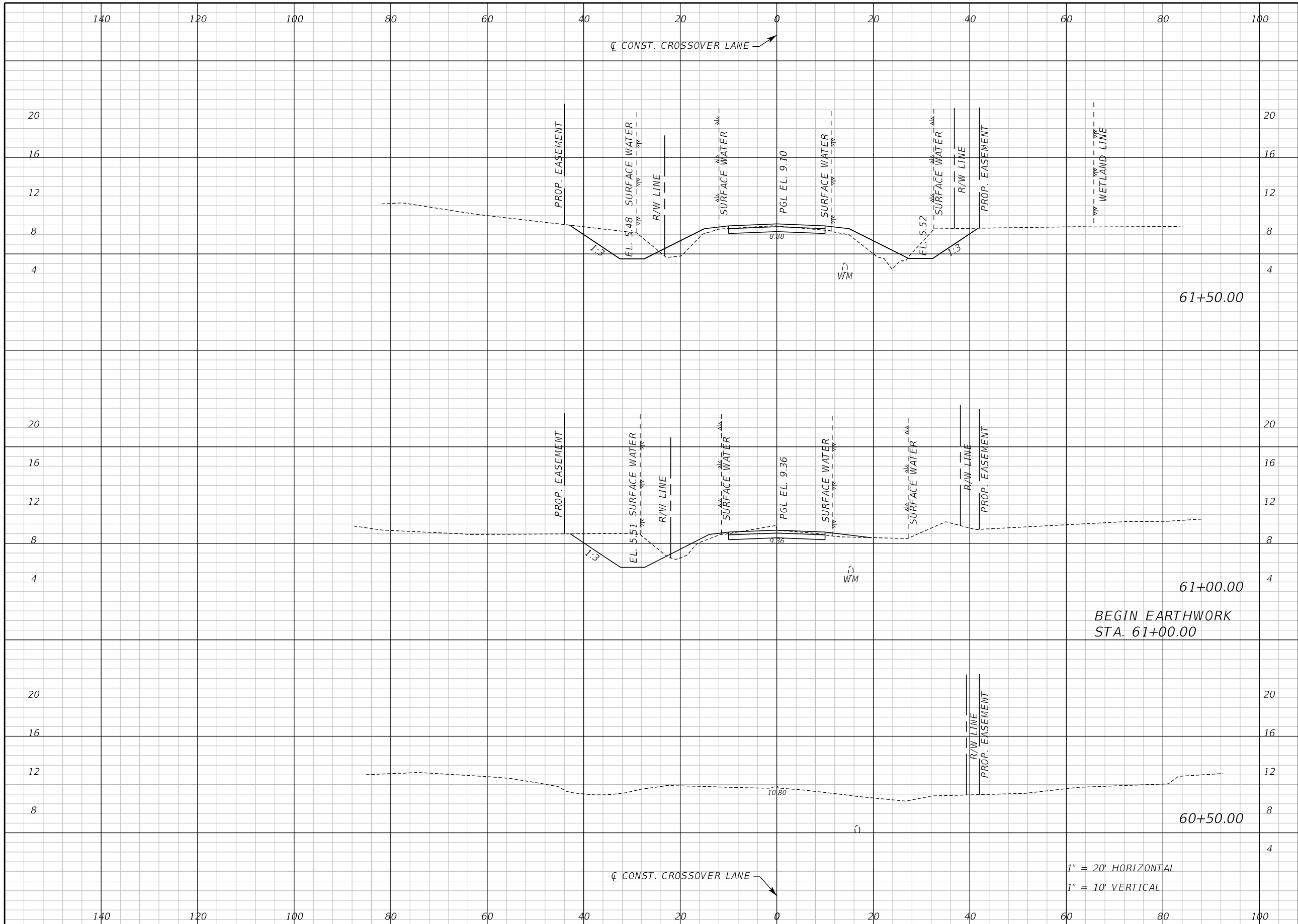
ROAD NO. WHITCOMB DRIVE

COUNTY CIP NO. 02107099

CROSS SECTION
WHITCOMB DRIVE

SHEET NO. 81

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
64.1	114	27.5	33		
58.7	0	8.2	0		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SEMINOLE COUNTY
ENGINEERING DIVISION

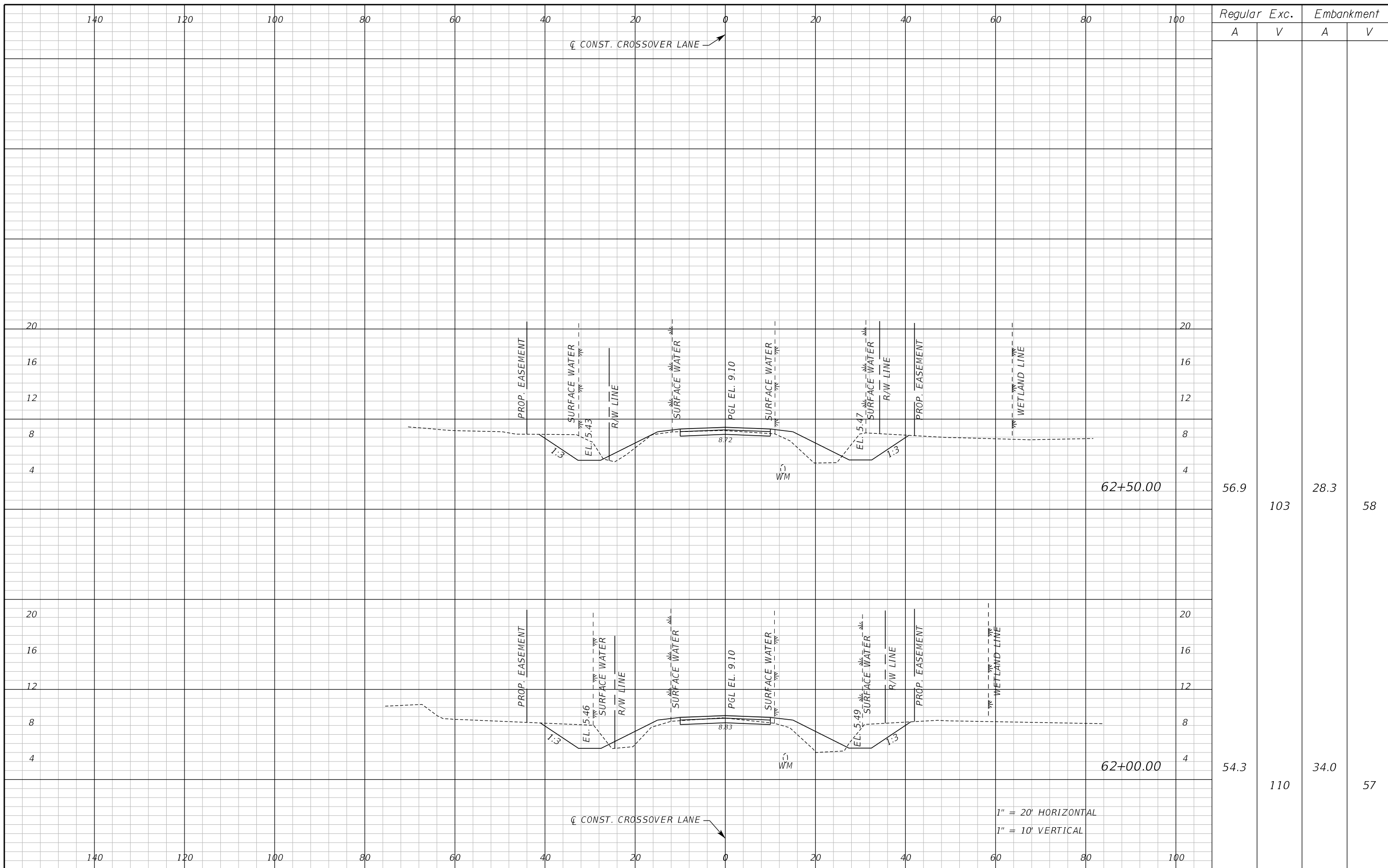
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

CROSS SECTION
CROSSOVER LANE

SHEET NO.
82

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
56.9	103	28.3	58	54.3	110

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SEMINOLE COUNTY
ENGINEERING DIVISION

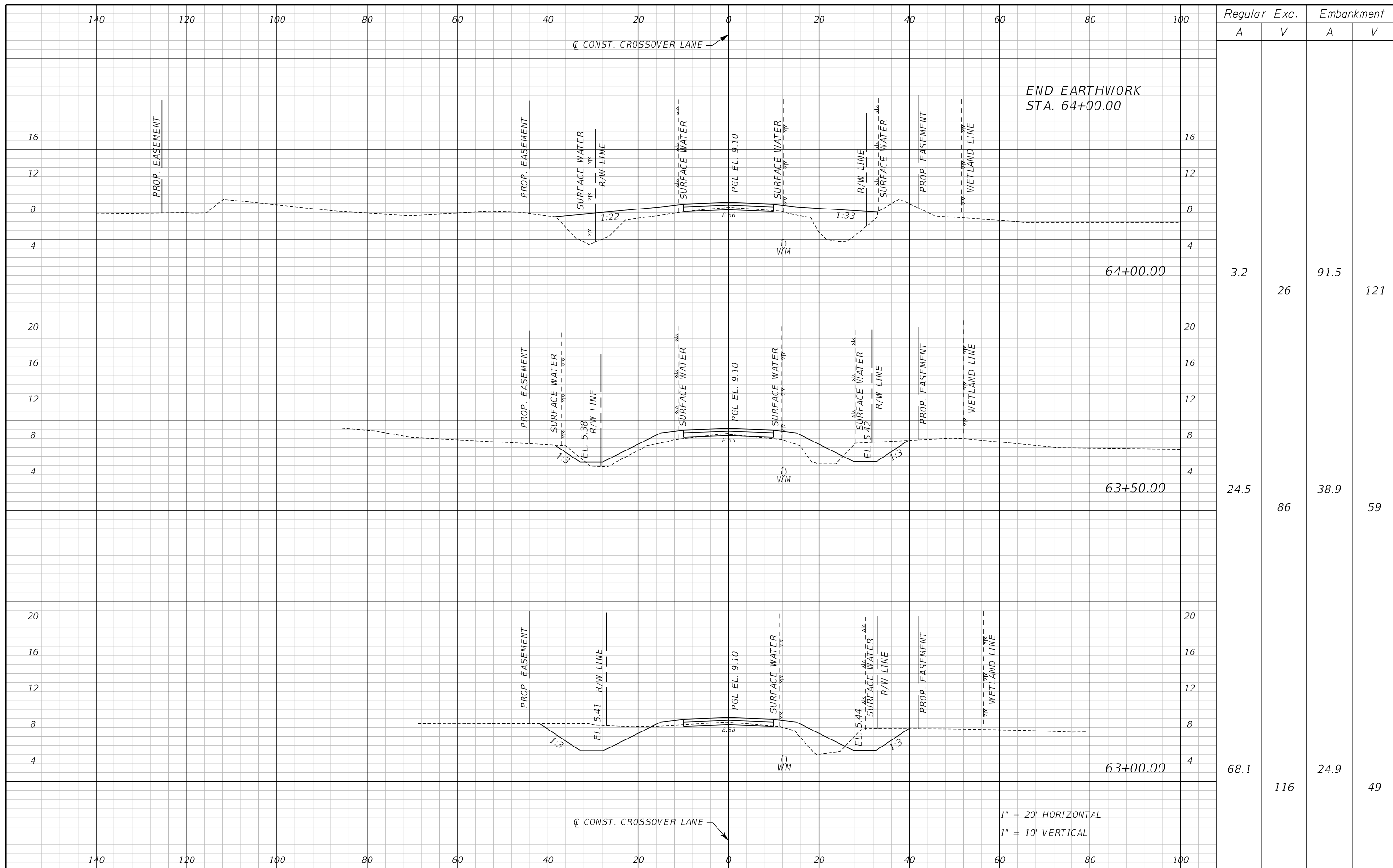
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

CROSS SECTION
CROSSOVER LANE

SHEET NO.
83

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
3.2	26	91.5	121		
24.5	86	38.9	59		
68.1	116	24.9	49		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SEMINOLE COUNTY
ENGINEERING DIVISION

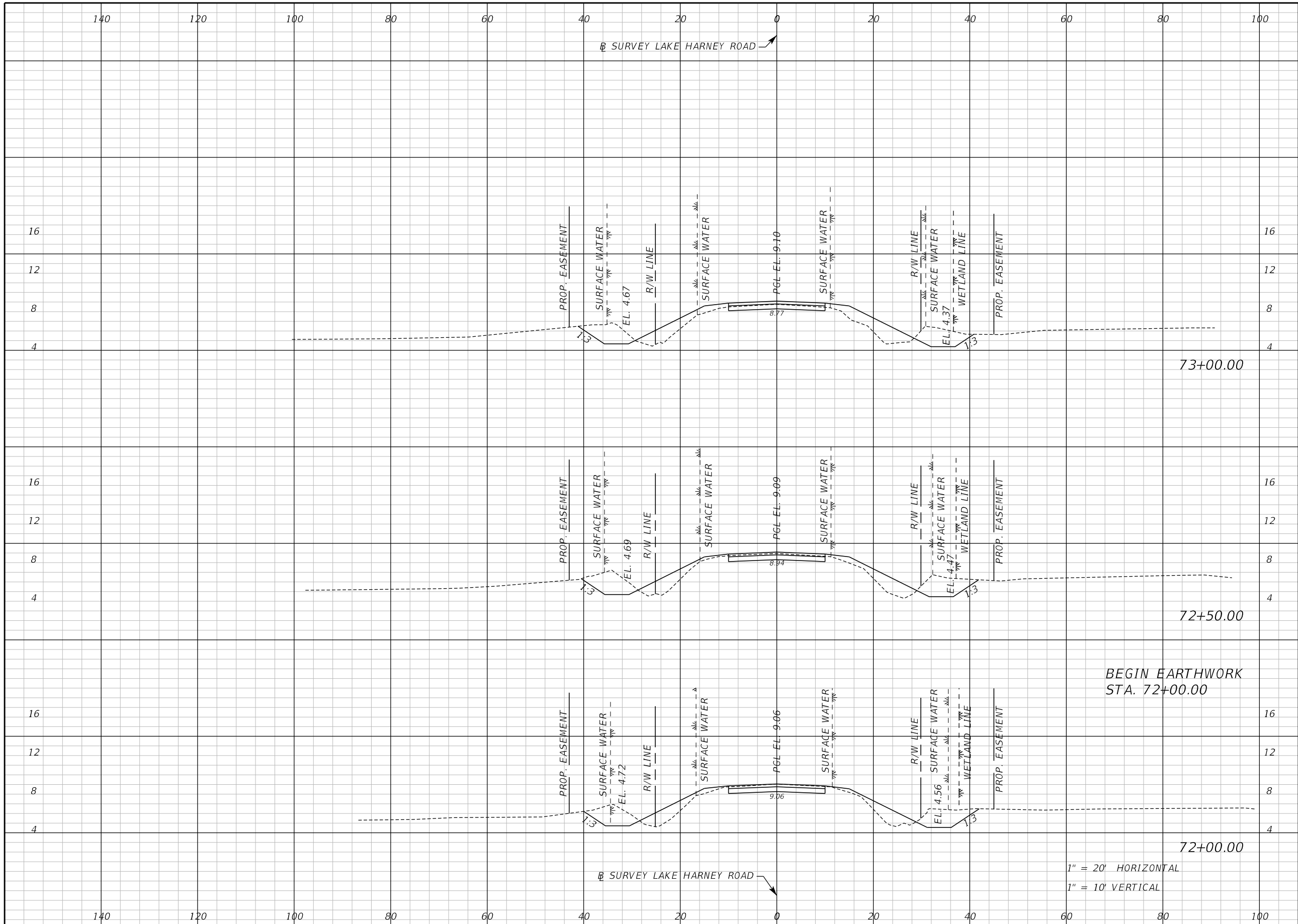
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

CROSS SECTION
CROSSOVER LANE

SHEET NO.
84

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
39.9	81	38.3	64		
47.1	86	31.2	54		
46.2	0	26.9	0		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ENGINEERING DIVISION

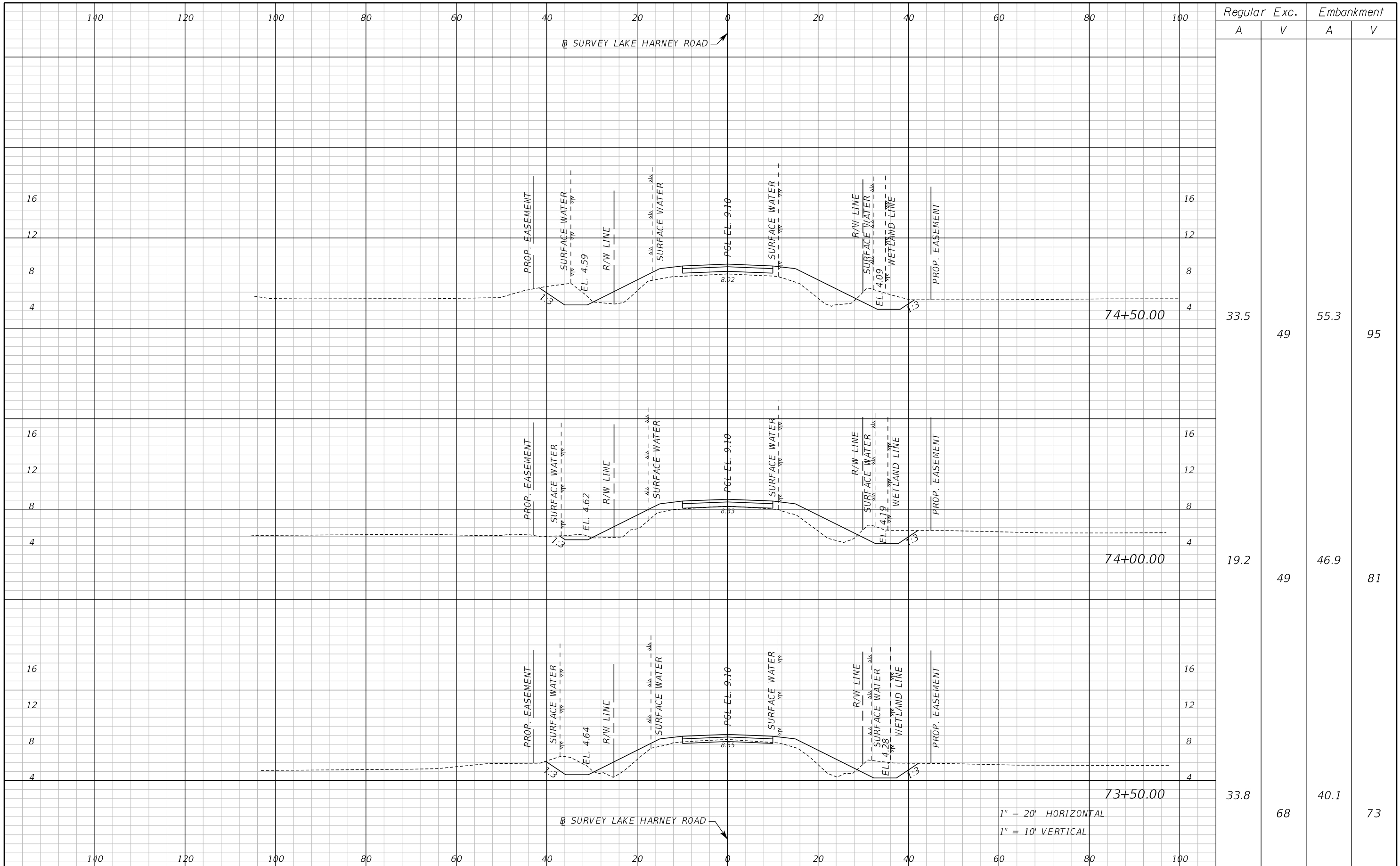
ROAD NO. WHITCOMB DRIVE

COUNTY CIP NO. 02107099

CROSS SECTION
LAKE HARNEY ROAD

SHEET NO.
85

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Regular		Exc.		Embankment	
A	V	A	V	A	V
33.5	49	55.3	95		
19.2	49	46.9	81		
33.8	68	40.1	73		

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

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p 407.971.8850

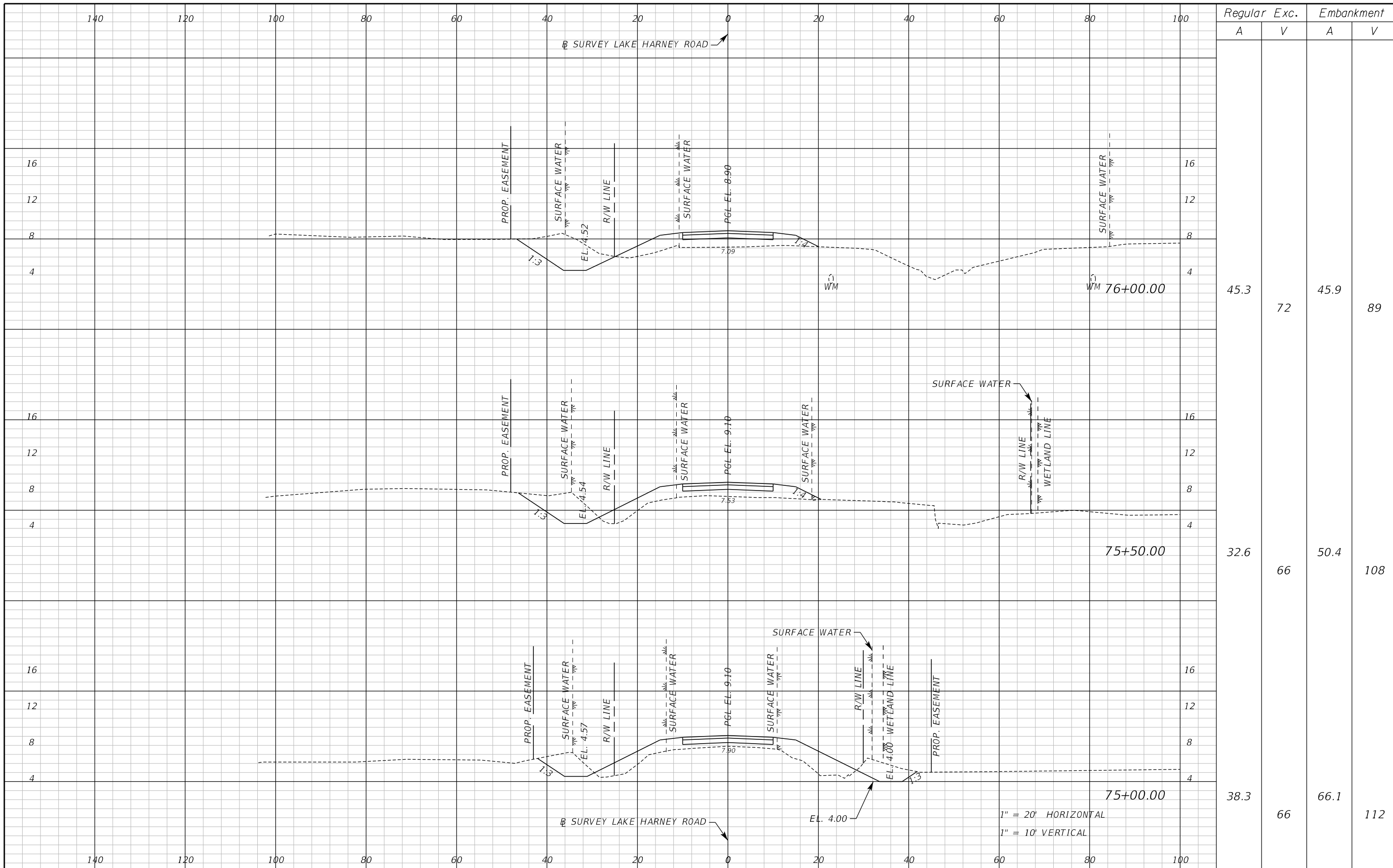
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. WHITCOMB DRIVE
COUNTY CIP NO. 02107099

CROSS SECTION
LAKE HARNEY ROAD

SHEET NO.
86

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Regular		Exc.		Embankment	
A	V	A	V	A	V
45.3	72	45.9	89		
32.6	66	50.4	108		
38.3	66	66.1	112		

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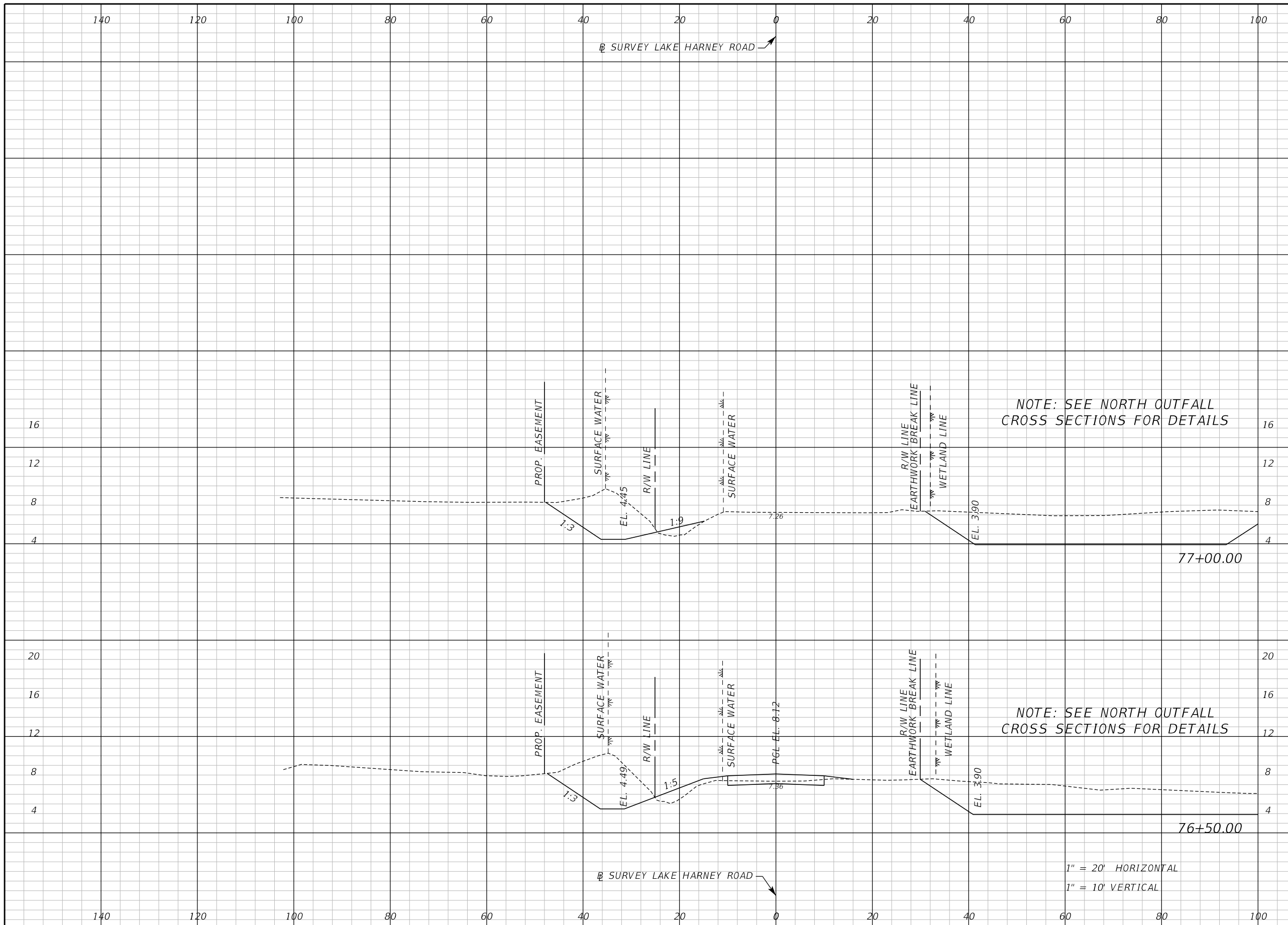
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

CROSS SECTION
LAKE HARNEY ROAD

SHEET NO. 87

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Regular		Exc.		Embankment	
A	V	A	V	A	V
64.7	133	4.4	15		
79.3	115	11.5	53		

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

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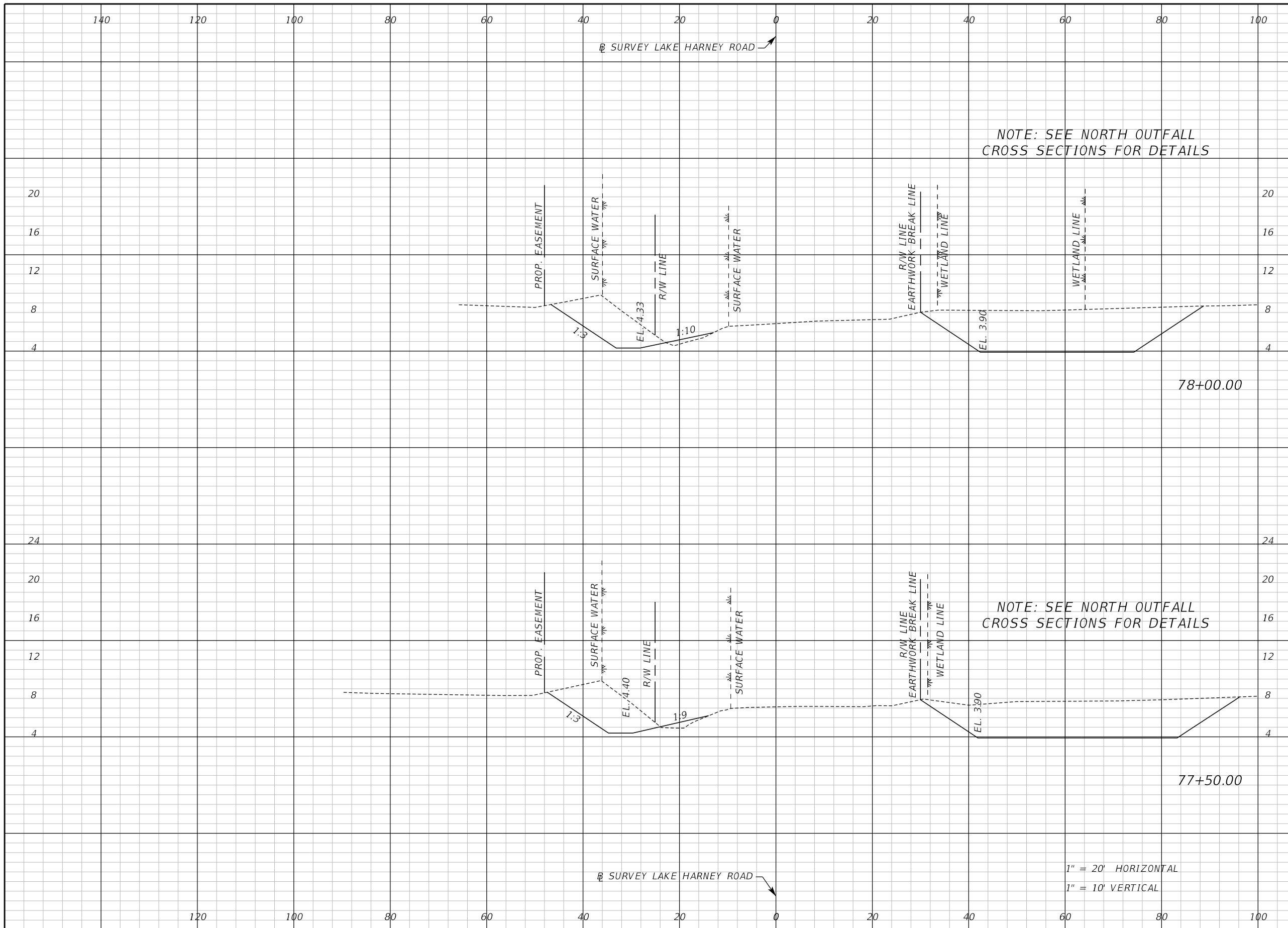
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COUNTY CIP NO. 02107099

CROSS SECTION
LAKE HARNEY ROAD

SHEET NO. 88

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Regular		Exc.		Embankment	
A	V	A	V	A	V
59.9			114	3.1	6
63.4			119	3.4	7

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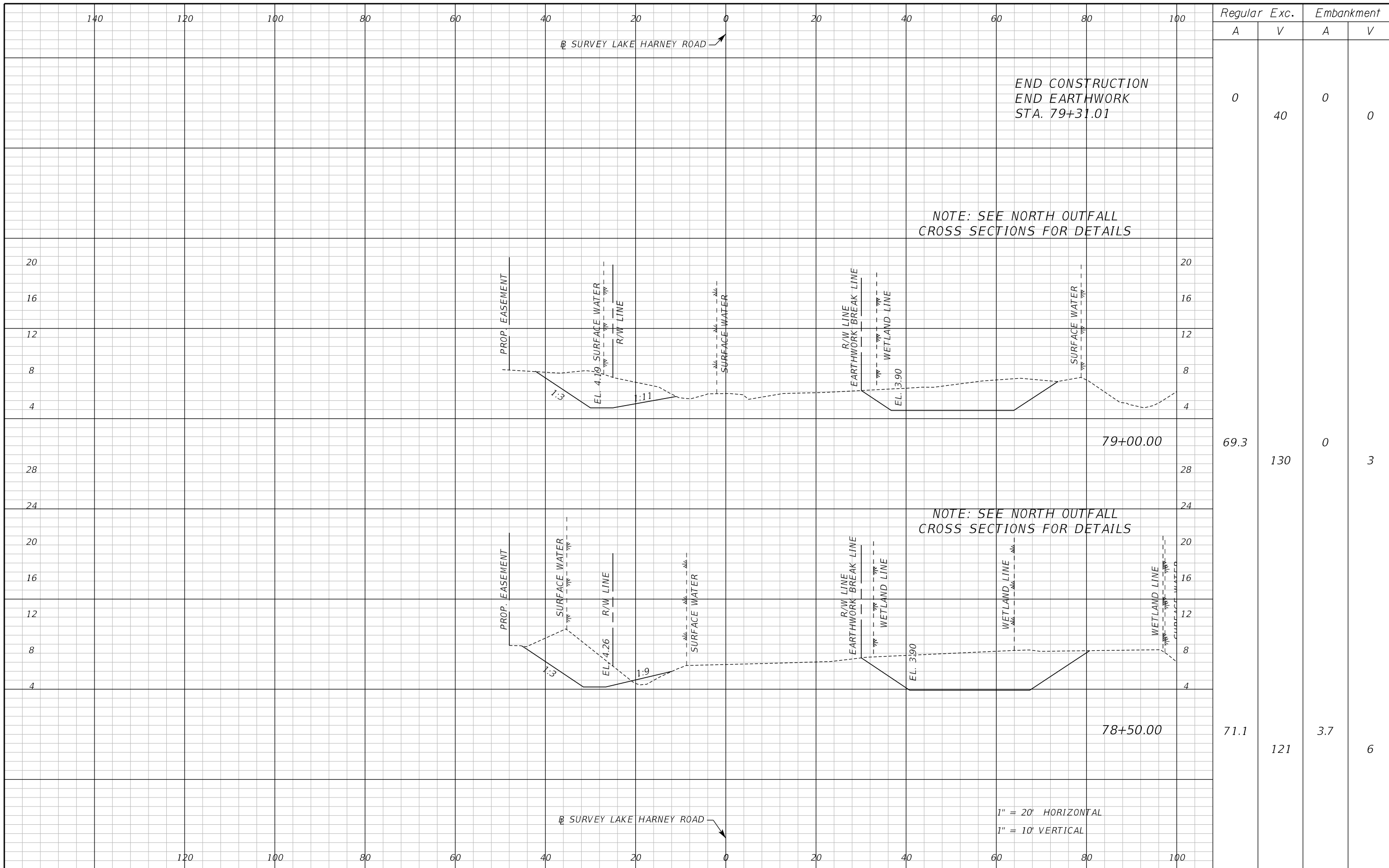
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CROSS SECTION
LAKE HARNEY ROAD

SHEET NO.
89

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Regular		Exc.		Embankment	
A	V	A	V	A	V
0	40	0	0	0	0
69.3	130	0	3	0	3
71.1	121	3.7	6	3.7	6

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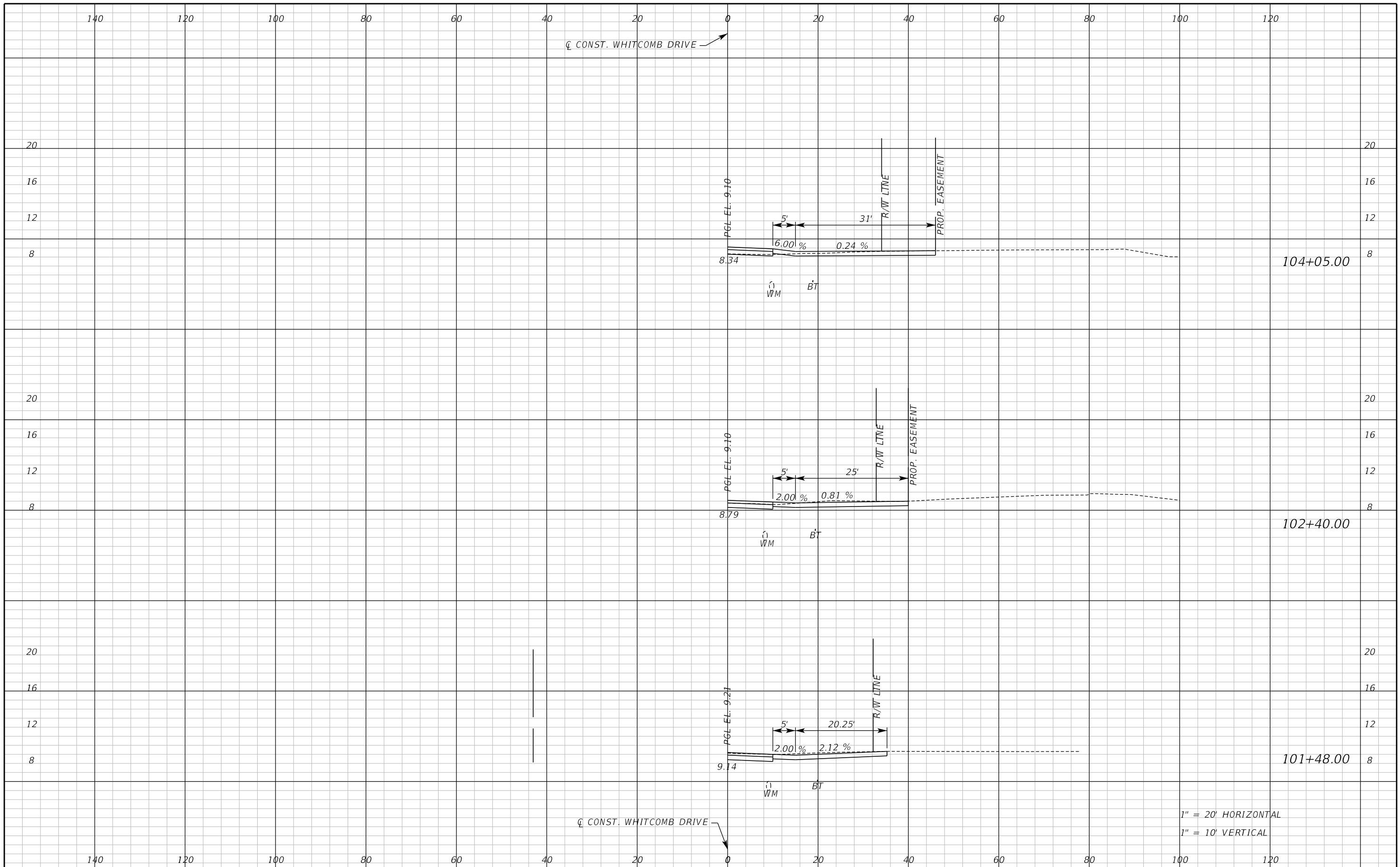
ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

CROSS SECTION
LAKE HARNEY ROAD

SHEET NO. 90

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

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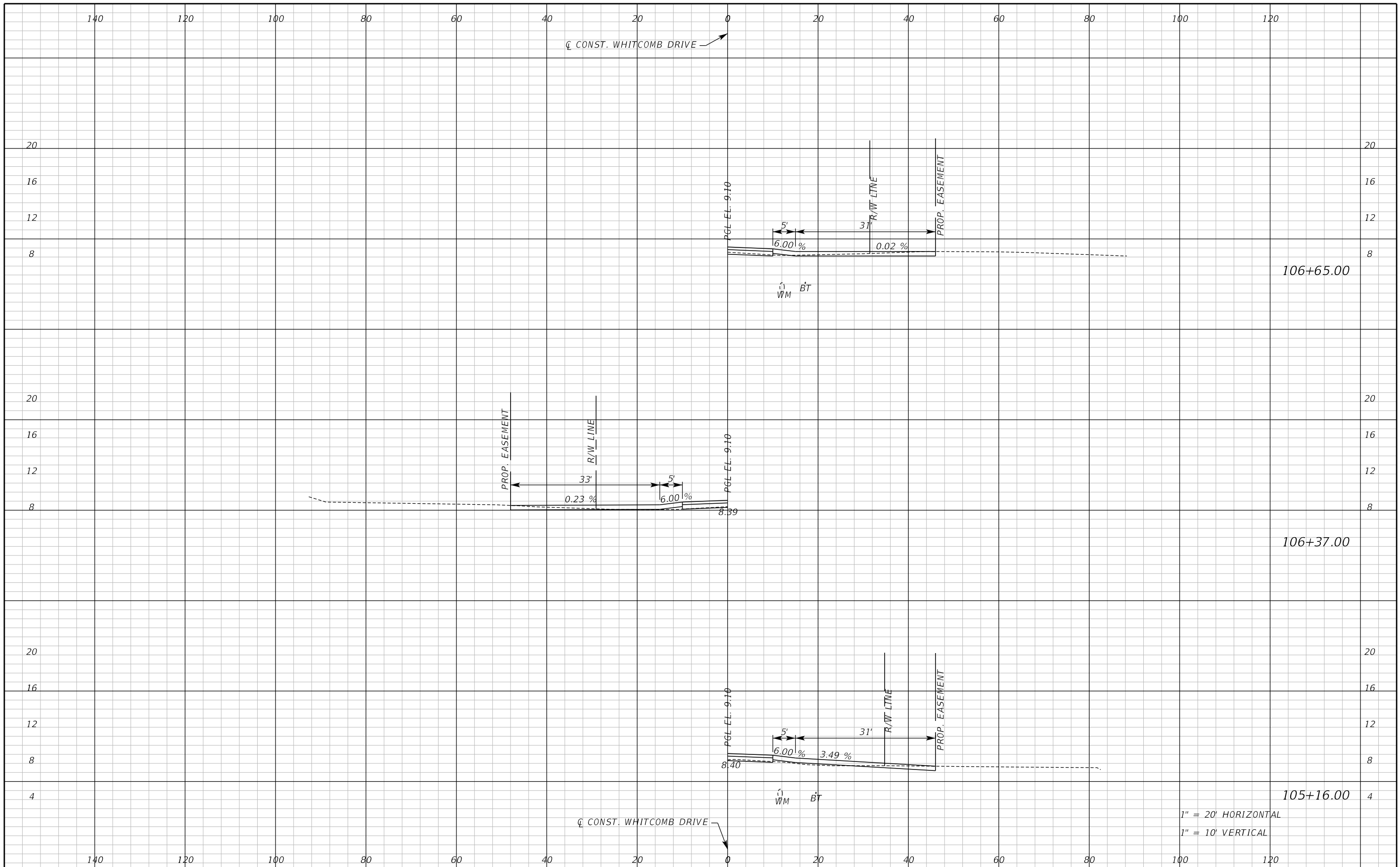
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DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO. 91

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

REVISIONS					
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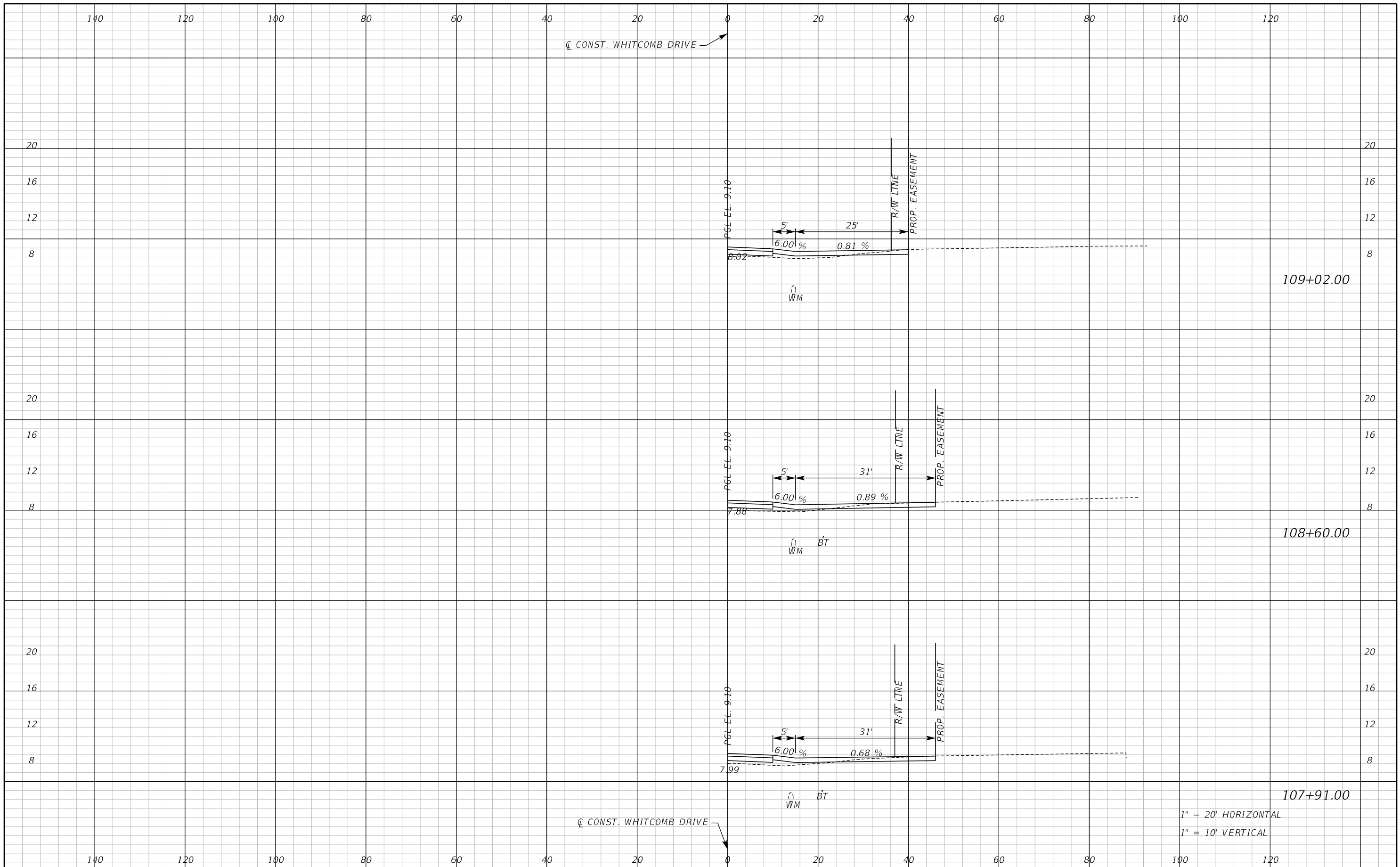
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DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO. 92

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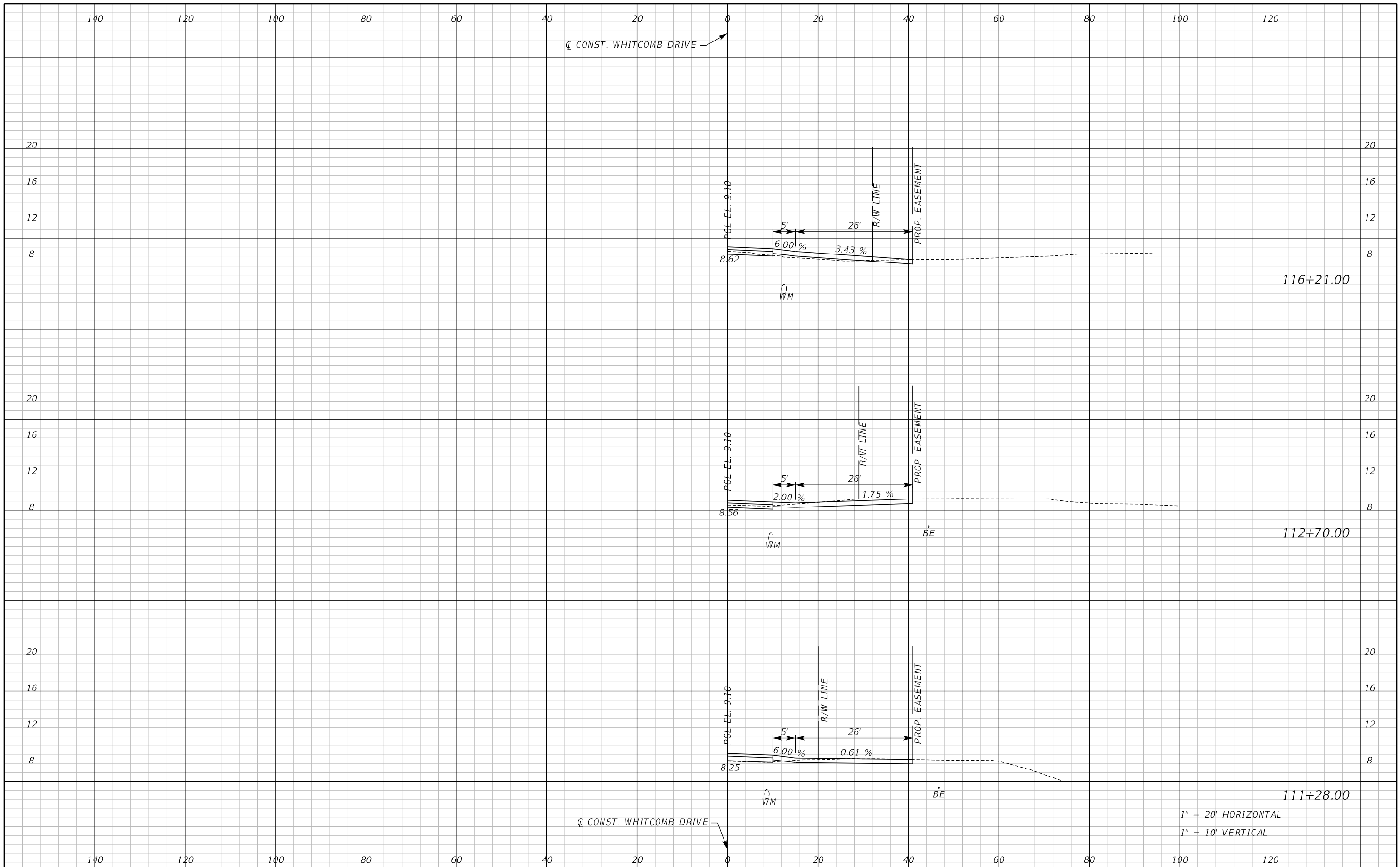
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DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO. 93

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116+21.00

112+70.00

111+28.00

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1" = 10' VERTICAL

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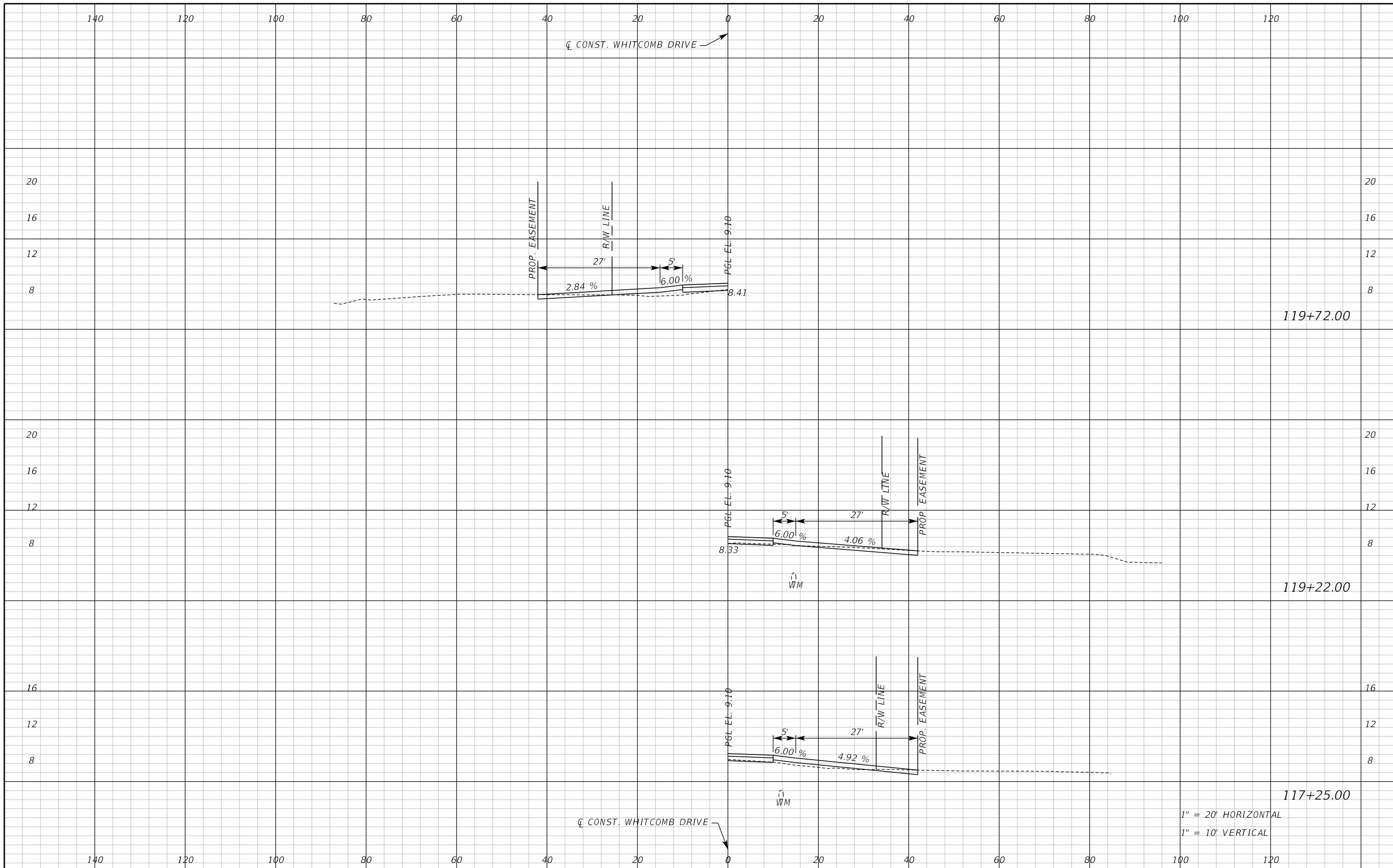
SEMINOLE COUNTY
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DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO.
94

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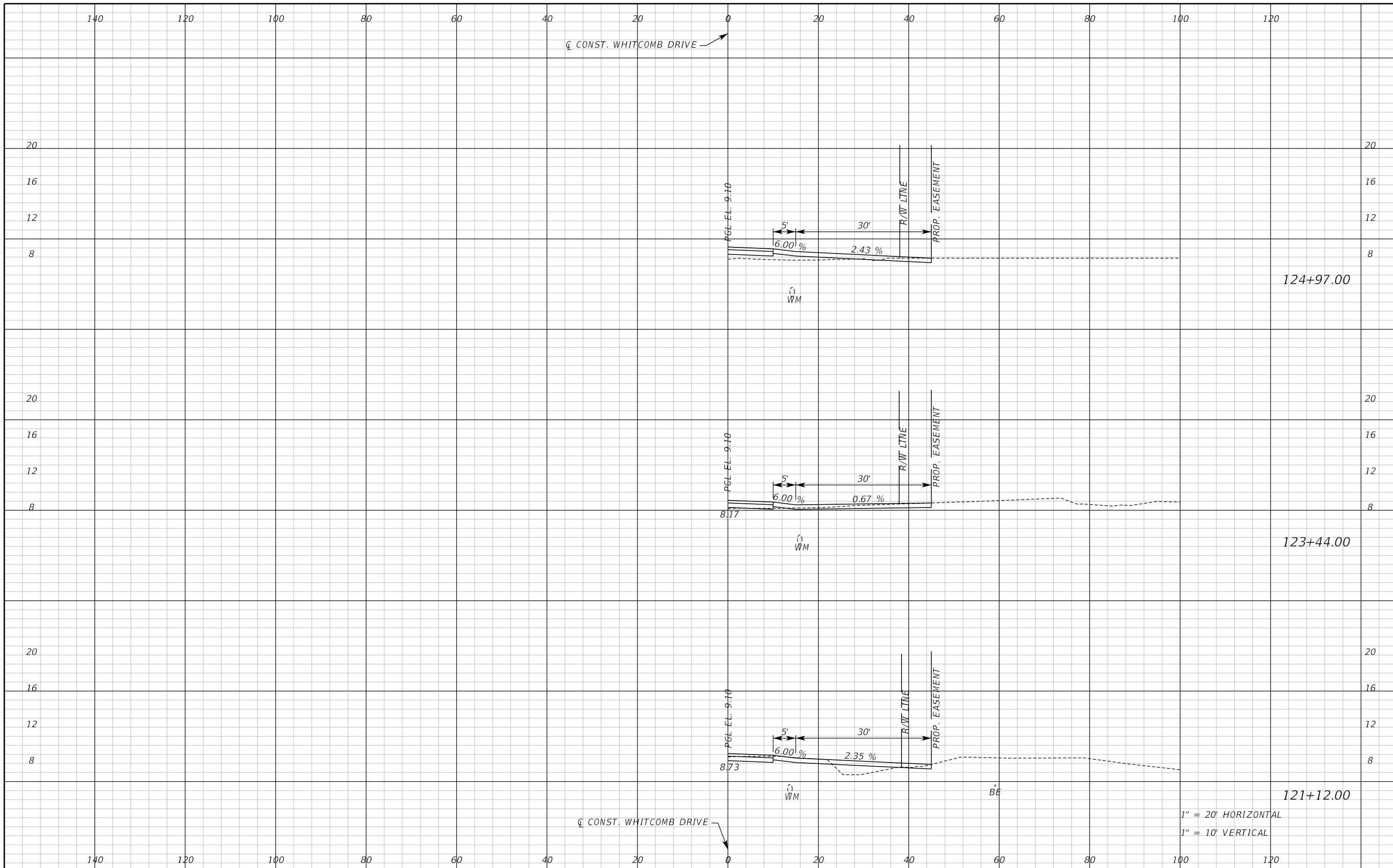
SEMINOLE COUNTY
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DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO.
95

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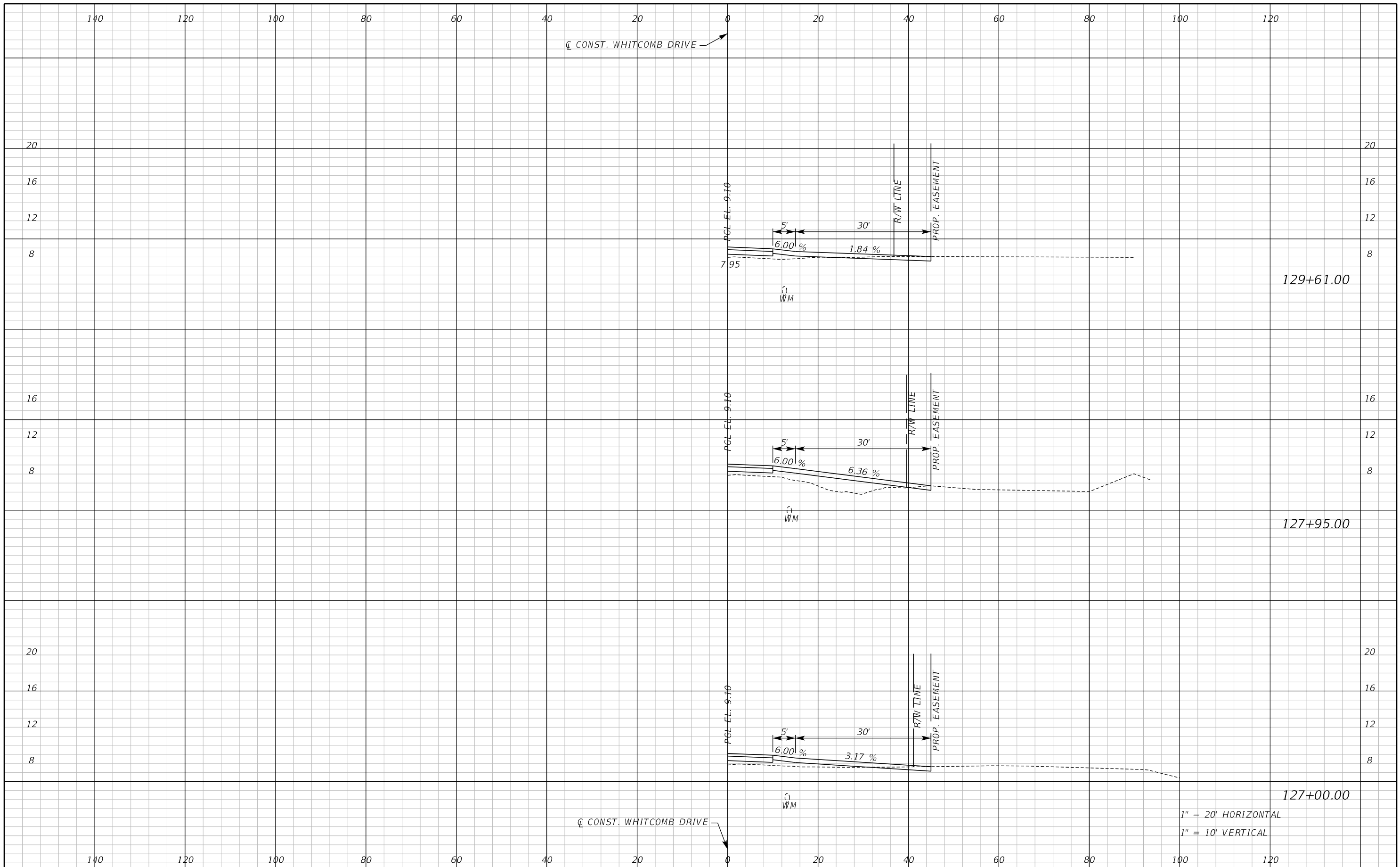
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DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO.
96



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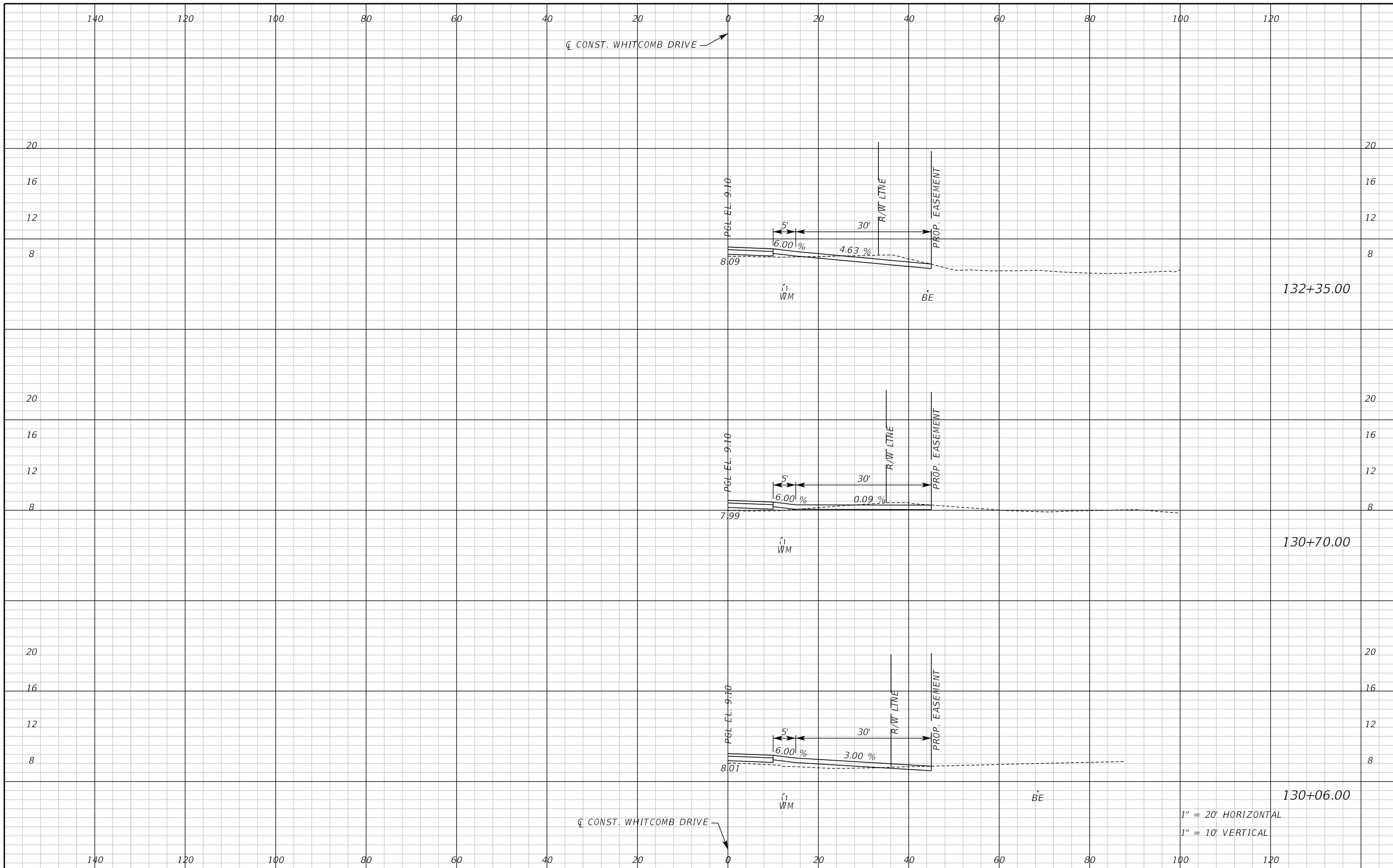
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD NO. WHITCOMB DRIVE
 COUNTY CIP NO. 02107099

DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO. 97

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132+35.00

130+70.00

130+06.00

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1" = 10' VERTICAL

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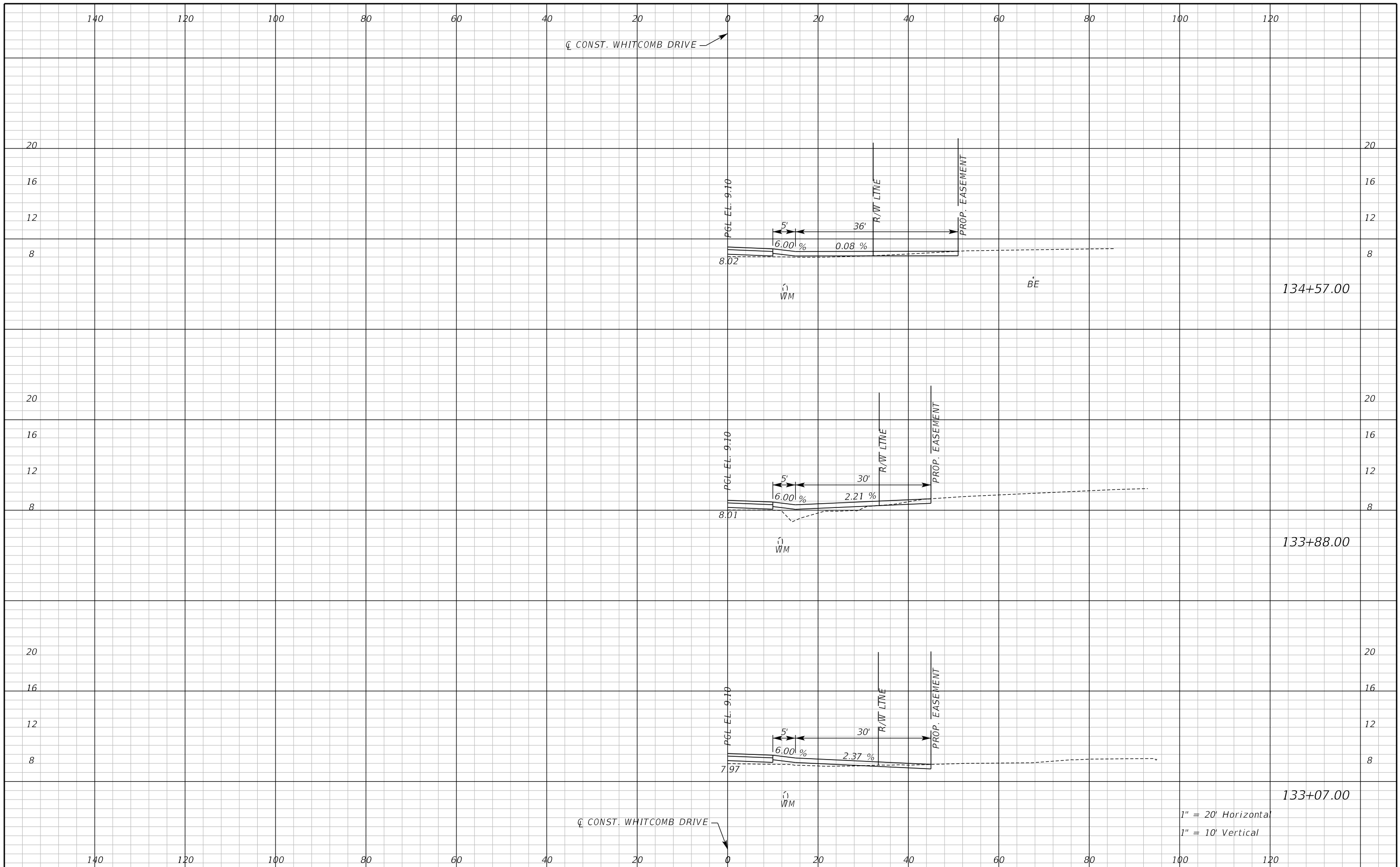
ROAD NO. WHITCOMB DRIVE

COUNTY CIP NO. 02107099

DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO.
98

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1" = 20' Horizontal
1" = 10' Vertical

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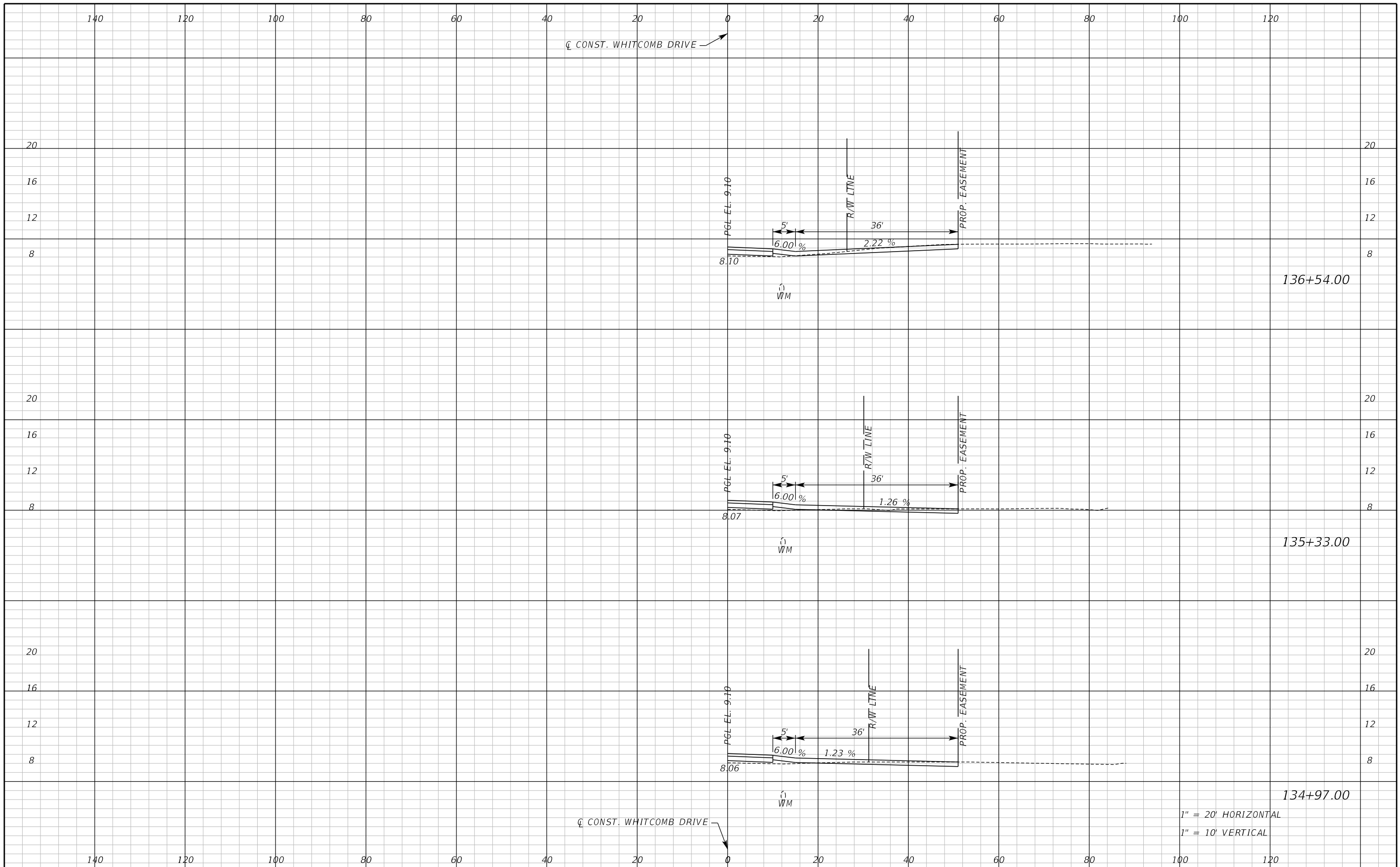
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DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO. 99

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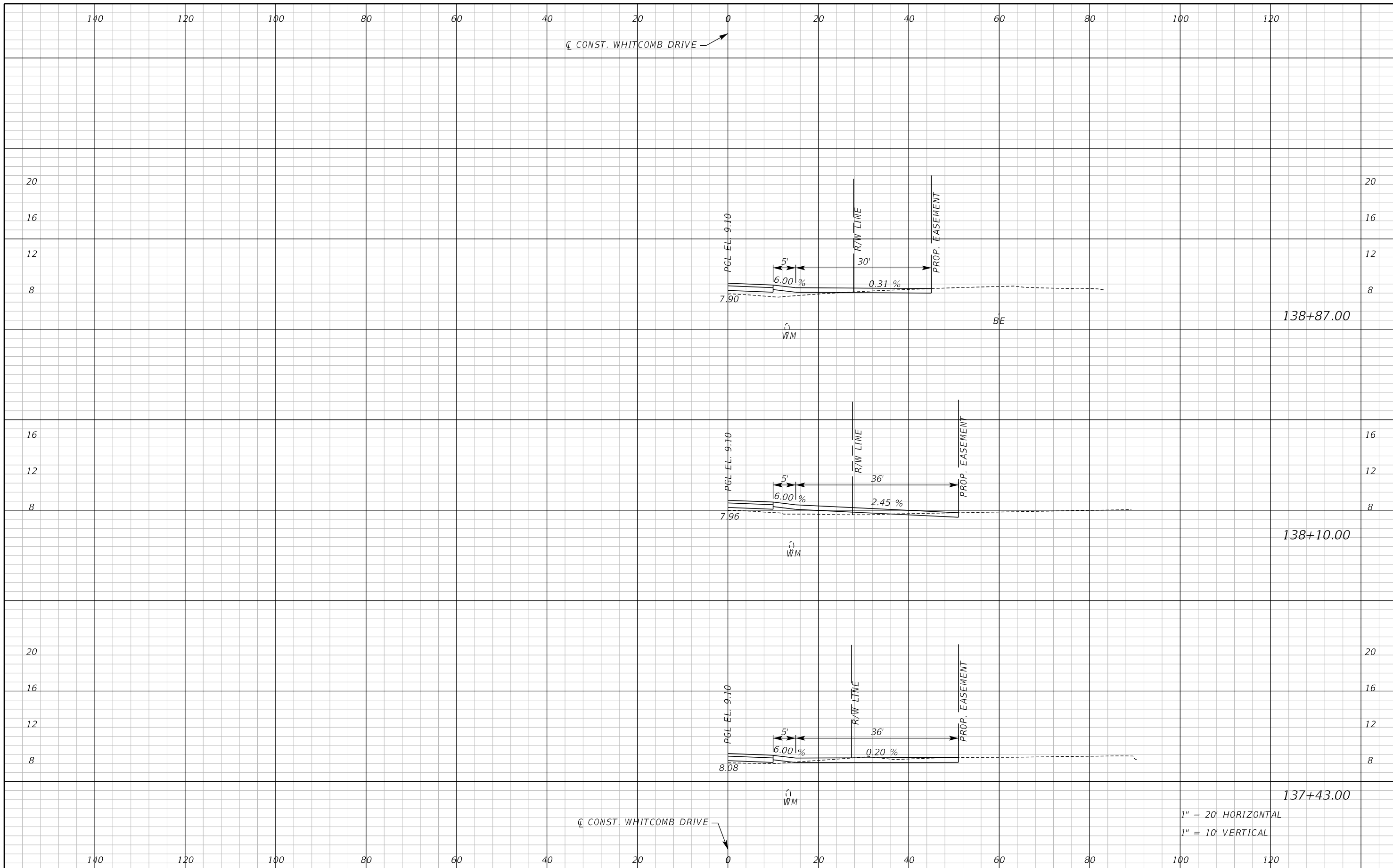
ROAD NO. WHITCOMB DRIVE COUNTY CIP NO. 02107099

DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO. 100

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

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 1" = 10' VERTICAL

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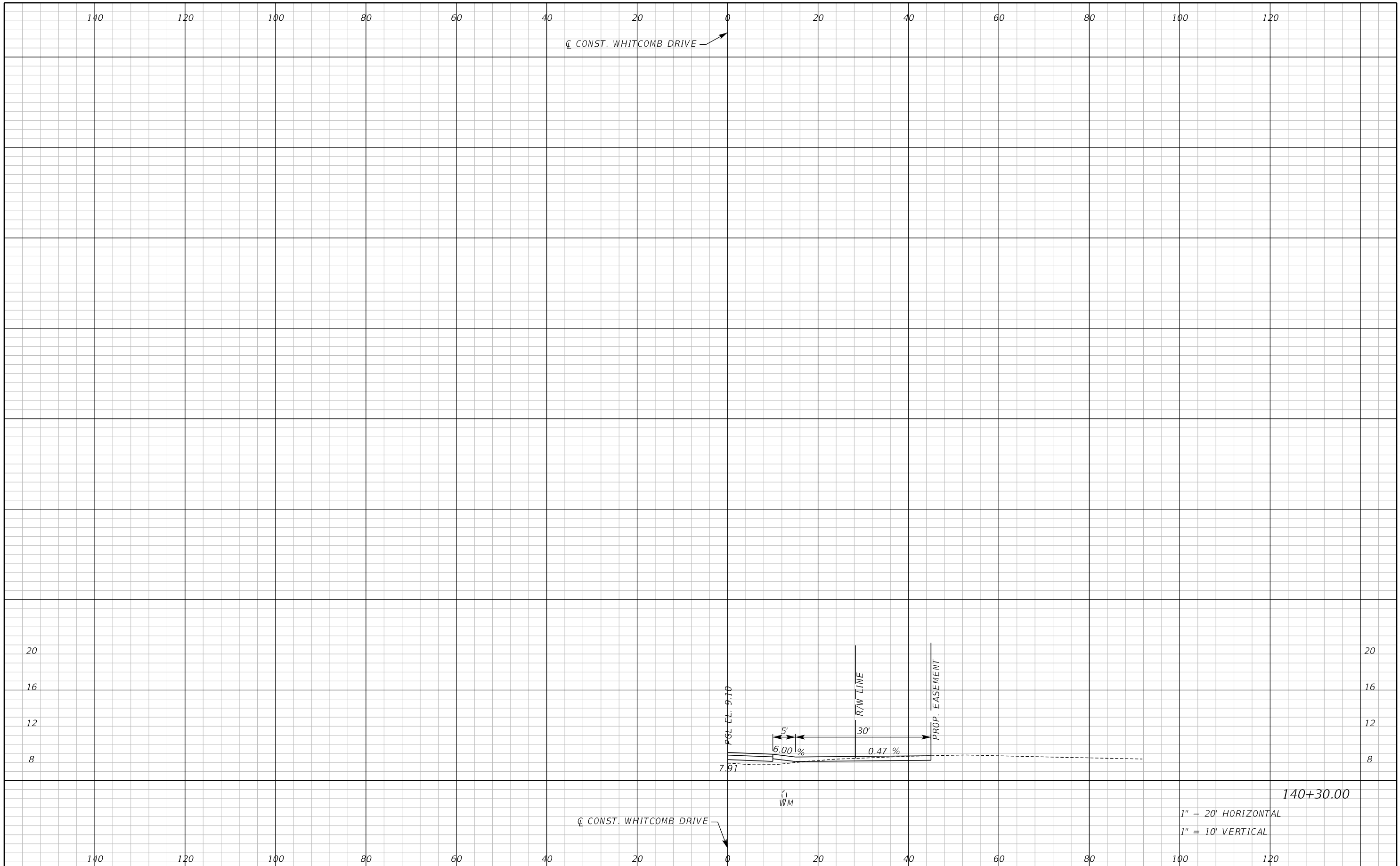
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SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD NO. WHITCOMB DRIVE
 COUNTY CIP NO. 02107099

DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO. 101

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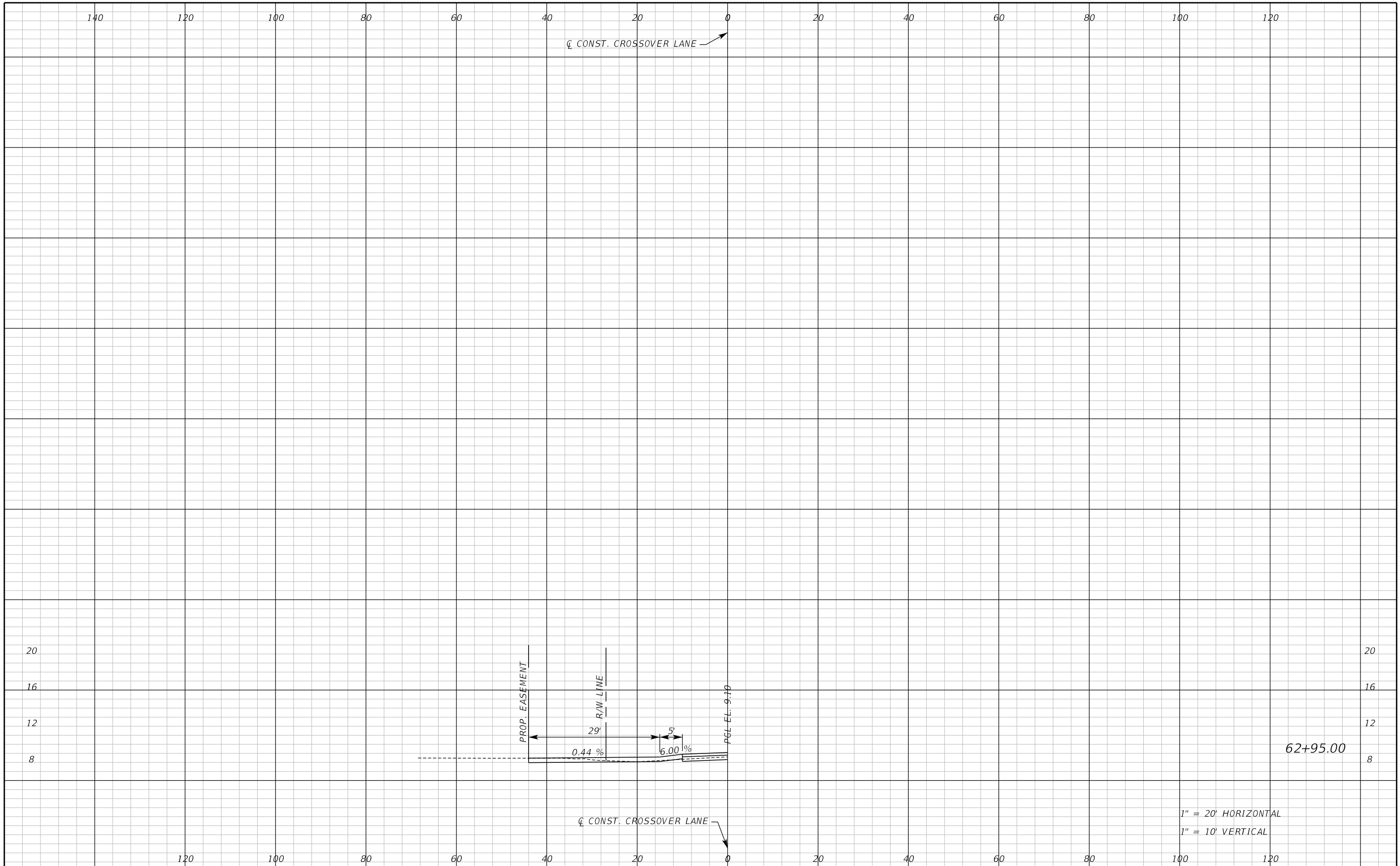
ROAD NO. WHITCOMB DRIVE

COUNTY CIP NO. 02107099

DRIVEWAY CROSS SECTIONS
WHITCOMB DRIVE

SHEET NO. 102

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SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

WHITCOMB DRIVE 02107099

DRIVEWAY CROSS SECTION
CROSSOVER LANE

SHEET NO.
103

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The following narrative is the Stormwater Prevention Plan and contains references to the FDOT Standards Specifications for Road and Bridge Construction, the FDOT Design Standards (latest edition), and other sheets of these construction plans. The complete Stormwater Pollution Prevention plan includes several items:

- this narrative description,
- the documents referenced in this narrative,
- the Contractor's approved Erosion Control Plan required by Section 104 of the FDOT Standard Specifications for Road and Bridge Construction (latest edition) herein after referred to as the 'Section 104 Erosion Control Plan', and
- reports of inspection made during construction.

1.0 SITE DESCRIPTION

1.a Nature of Construction Activity:

The project area is located along Whitcomb Drive, west of Lake Harney, in Geneva, FL. The proposed improvements include drainage retrofits to better manage stormwater and address roadway flooding.

1.b Sequence of Major Soil Disturbing Activities:

In the Section 104 Erosion Control Plan, the Contractor shall provide a detailed sequence of construction activities. The Contractor shall follow the sequence provided below, unless an alternative sequence proposed by the Contractor is approved by the County and the Engineer of Record.

Construction Sequencing:

1. Contractor shall be responsible for a staging area to store equipment, supplies, and materials, provide employee parking, etc. for the duration of construction or as approved by the County. Contractor is responsible for adjusting erosion control measures as needed to accommodate the staging area.
2. Install silt fence and floating turbidity barrier consistent with the Sediment and Erosion Control Plan.
3. Contractor shall clear and grub and demolish any existing structures to be removed and hauled overland for proper disposal. Prepare the work zone for the proposed improvements.
4. Contractor shall excavate as necessary to install the drainage improvements. Contractor shall dewater as necessary to perform the excavation. If necessary, Contractor shall provide treatment of dewatering effluent prior to discharge to ensure dewatering effluent meets any Federal, State, and local regulations.
5. The contractor shall cover any unprotected soils with a 6-ml layer of visqueen (or similar erosion protection device).
6. Contractor shall construct the proposed improvements. During construction, Contractor shall install inlet protection devices consistent with the Sediment and Erosion Control Plan. Contractor shall not block traffic at any time with inlet protection devices and inlet protection devices shall be removed when active construction is not occurring.
7. Upon the completion and full stabilization of the project area, remove the silt fence, inlet protection devices, and floating turbidity barrier.
8. Throughout construction, the contractor shall observe local weather forecasts for any predicted large rainstorm events. To the extent practical, the contractor shall proactively demobilize the construction site with the proposed temporary erosion control measures outlined herein.

1.c Area Estimates:

Total project contributing area to limits of ditch reconstruction: 163 acres.

Total area to be disturbed: 11 acres.

1.d Runoff Data:

- Runoff (10 year 24 hour event) to north outfall = 314 cfs
- Runoff Coefficient for Impervious Areas: C = 0.95
- Weighted Runoff Coefficients
- Before Construction Runoff Coefficient: C = 0.95
- After Construction Runoff Coefficient: C = 0.95
- During Construction Runoff Coefficient: C = 0.95

1.e Soils Data:

Refer to the Geotechnical Report prepared by Geotechnical and Environmental Consultants, Inc. dated February 2022. This report is incorporated into these contract documents.

1.f Outfall Information Description:

Runoff from the project area is conveyed to three primary outfalls located along Whitcomb Drive that discharge to Lake Harney.

1.g Site Map:

The site maps consist of the construction plans. The location of the required information is described below. The sheet numbers for the plan sheets referenced are identified on the Key Sheet.

- Drainage Patterns - The proposed flow directions are shown on the Grading and Drainage sheets.
- Approximate Slopes - The slopes of the Site can be seen in the Grading and Drainage sheets.
- Locations of Temporary Controls - The temporary erosion control measures are depicted in the SWPPP sheet. SWPPP depicts the erosion control protection devices required when the Contractor first mobilizes, including silt fence, inlet protection devices, and floating turbidity barrier. Additional temporary controls shall be implemented as necessary during interim construction periods, or where the proposed controls do not adequately protect off-site regions from experiencing sediment releases from on-site areas.
- Locations of Permanent Controls - The permanent erosion control measures include sodding of disturbed pervious areas.
- Areas To Be Stabilized - Temporary stabilization practices are to be shown in the Contractor's Erosion Control Plan. Permanent stabilization consists of sodding disturbed areas.
- Surface Waters - The project drainage system discharges stormwater to Pond 3 and ultimately to Lake Catherine.

2.0 CONTROLS:

2.a Erosion And Sediment Controls:

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed stabilization and structural practices based on the Contractor's proposed construction efforts. The Contractor may elect to accept the following guidelines or modify them in the Section 104 Erosion Control Plan, subject to approval of the County Engineer. As work progresses, the Contractor may need to modify the plan to adapt to seasonal variation, and changes in construction activities.

2.a.1 Stabilization Practices:

In the Section 104 Erosion Control Plan, the Contractor shall describe the stabilization practices proposed to control erosion. The Contractor shall initiate all stabilization measures as soon as practical, but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased. The stabilization practices shall include at least the following, unless otherwise approved by the County Engineer.

Temporary:

- Artificial coverings in accordance with Specification Section 104.
- Seeding / Sod in accordance with Specification Section 104.
- Bypass pumping and dewatering.
- 6-ml Visqueen layer (or equivalent) to protect exposed soils

Permanent:

- Sod in accordance with Specification Section 575.

2.a.2 Structural Practices:

In Section 104 Erosion Control Plan, the Contractor shall describe the proposed structural practices to prevent the discharge of sediments from exposed areas of the site. Sediment controls shall be in place before disturbing soil upstream of the control. The structural practices shall include at least the following unless otherwise approved by the County.

Temporary:

- Silt fence in accordance with Index 102 and Specification Section 104 and replaced as needed to maintain water passage.
- Synthetic Hay Bale in accordance with Index 102 and Specification Section 104
- Rock bags in accordance with Index 102 and Specification Section 104

Permanent:

- Sod in accordance with Specification Section 575.

2.b Stormwater Management:

Drainage improvements will be constructed to reduce flooding along Whitcomb Drive.

2.c Other Controls:

2.c.1 Waste Disposal:

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed methods shall include at least the following.

- Providing litter control and collection within the project during construction activities. Disposing of all fertilizer or other chemical containers according to EPA's standard practices as detailed by the manufacturer.
- Disposing of solid materials including building and construction materials off the project site.

2.c.2 Off-Site Vehicle Tracking & Dust Control:

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods for minimizing offsite tracking of sediments and dust. The methods shall include at least the following.

- Covering loaded haul trucks with tarpaulins.
- Removing excess dirt from roads daily.
- Using roadway sweepers during dust generating activities such as excavation and hauling operations.

2.c.3 State and Local Regulations For Waste Disposal, Sanitary

Sewer, Or Septic Tank Regulations - In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed procedures to comply with applicable state and local regulations for waste disposal, and sanitary sewer or septic systems.

2.c.4 Fertilizers and Pesticides - In the Section 104 Erosion Control Plan, the Contractor shall describe the procedures for applying fertilizers and pesticides. The proposed procedures shall comply with applicable subsections of either Section 570 or 577 of the Specifications.

2.c.5 Toxic Substances - In the Section 104 Erosion Control Plan, the Contractor shall provide a list of toxic substances that are likely to be used on the job and provide a plan addressing the generation, application, migration, storage, and disposal of these substances.

2.d Approved State and Local Plans and Permits - [To be Determined upon Permit Issuance].

3.0 MAINTENANCE:

In the Section 104 Erosion Control Plan, the Contractor shall provide a plan for maintaining all erosion and sediment controls throughout construction. The maintenance plan shall at a minimum, comply with the following maintenance of silt fence, turbidity barrier, rock bags and synthetic bale type barriers per Section 104.

4.0 INSPECTIONS:

Qualified personnel shall inspect the following items at least once every seven calendar days and within 24 hours of the end of a storm that is 0.25 inches or greater. The Contractor shall install and maintain rain gages and record daily rainfall.

- Disturbed areas of the site that have not been finally stabilized.
- Areas used for storage of materials that are exposed to precipitation.
- Structural controls.
- Stormwater management systems.
- Locations where vehicles enter or exit the site.

The Contractor shall initiate repairs within 24 hours of inspections that indicate items require repairs. If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediment, and prevent discharging pollutants, the Contractor shall provide additional measures, as approved by the County.




5.0 NON-STORMWATER DISCHARGES:

In the Section 104 Erosion Control Plan, the Contractor shall identify all anticipated non-stormwater discharges (except flows from firefighting activities). The Contractor shall describe the proposed measures to prevent pollution of these non-stormwater discharges such as:

- Dewatering - The Contractor shall develop, as needed, any dewatering system that provides pretreatment of effluent prior to discharge along with meeting any Federal, State, and local dewatering permit laws, rules, and regulations.
- Dust Control - The Contractor shall develop in Section 104 Erosion Control Plan dust control plan and remedial action to correct any malfunctioning measures.
- Equipment Washout - The Contractor shall develop in Section 104 Erosion Control Plan an effective plan to control equipment washout and other erosive conditions from equipment cleaning processes, and remedial action to correct any malfunctioning measures.
- Hazardous Material Spill - The Contractor shall develop in Section 104 Erosion Control Plan an effective plan to control in the event any hazardous materials should spill and remedial action to correct any malfunctioning measures. If the Contractor encounters contaminated soil or groundwater, the Contractor shall contact the Orange County Health Department, and the County immediately.

EROSION CONTROL GENERAL NOTES

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. Provisions must be made to preserve the integrity and capacity of grading patterns and BMPs required to meet this provision throughout the life of the construction. The contractor shall provide silt barriers, turbidity barriers, rock bags, synthetic bale type 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. Water quality units and ditch bottom inlets shall be protected from sediment laden stormwater runoff until the completion of all construction operations that may contribute sediment to the inlet. Contractor is responsible for preventing soil, sediment, and debris from entering stormwater conveyance infrastructure during construction activities. Contractor responsible for the removal of material from pipes and structures.
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 grassed 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 of 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 FDOT 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. 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 slopes may be seeded and mulched, provided that the mulch material is disk harrowed and the side slopes are neither greater than 3:1 nor part of a drainage conveyance.
15. All excess fill material shall be hauled off-site by the Contractor.
16. Contractor shall perform inspections daily and within 24-hours after each 0.50-inch or greater rainfall event to determine the effectiveness of erosion/sediment control measures. Any necessary remedies shall be performed immediately by the Contractor.

REVISIONS										SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		104
						Mark W. Ellard, PE PE No. 48073 Certificate of Authorization No. 4321	3504 LAKE LYNDA DRIVE SUITE 155 ORLANDO, FL 32817	02107099		

SUSERS

SDATES

STIMES

SFILES



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
 consultants

Mark W. Ellard, PE
 PE No. 48073
 Certificate of Authorization No. 4321

3504 LAKE LYNDY DRIVE
 SUITE 155
 ORLANDO, FL 32817

SEMINOLE COUNTY
 ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

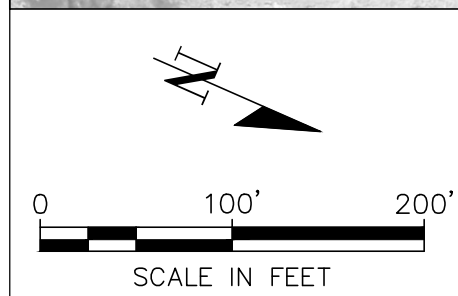
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**EROSION AND SEDIMENT
 CONTROL PLAN (1)**

SHEET NO.
 105



PROPOSED SILT FENCE
PER FDOT EROSION AND SEDIMENT CONTROL MANUAL

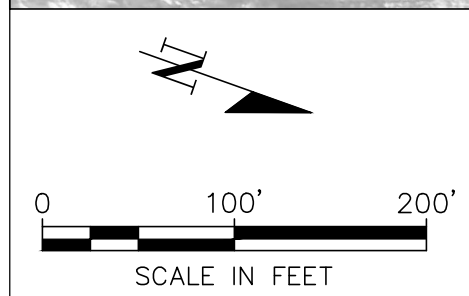


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REVISIONS					
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consultants

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PE No. 48073
Certificate of Authorization No. 4321

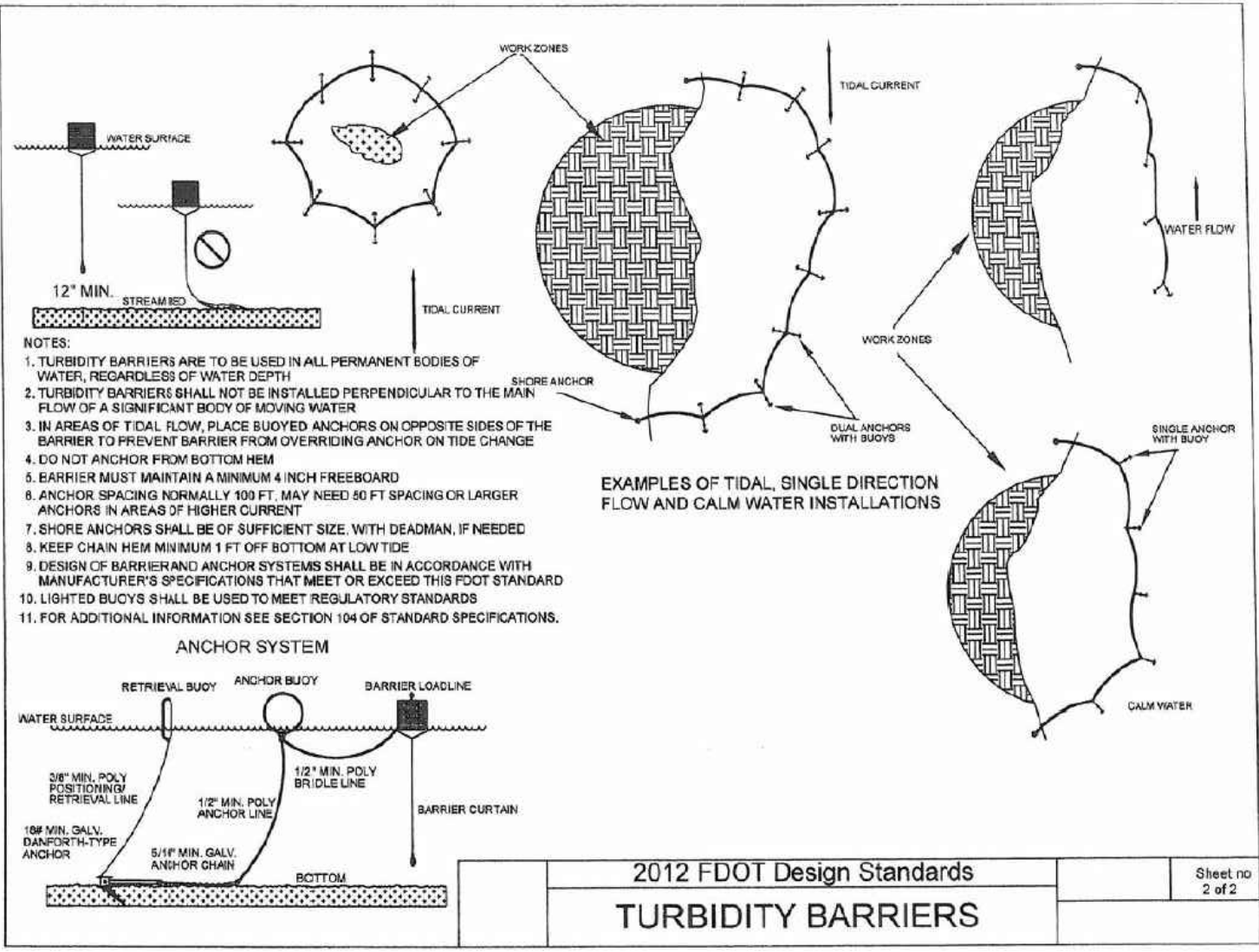
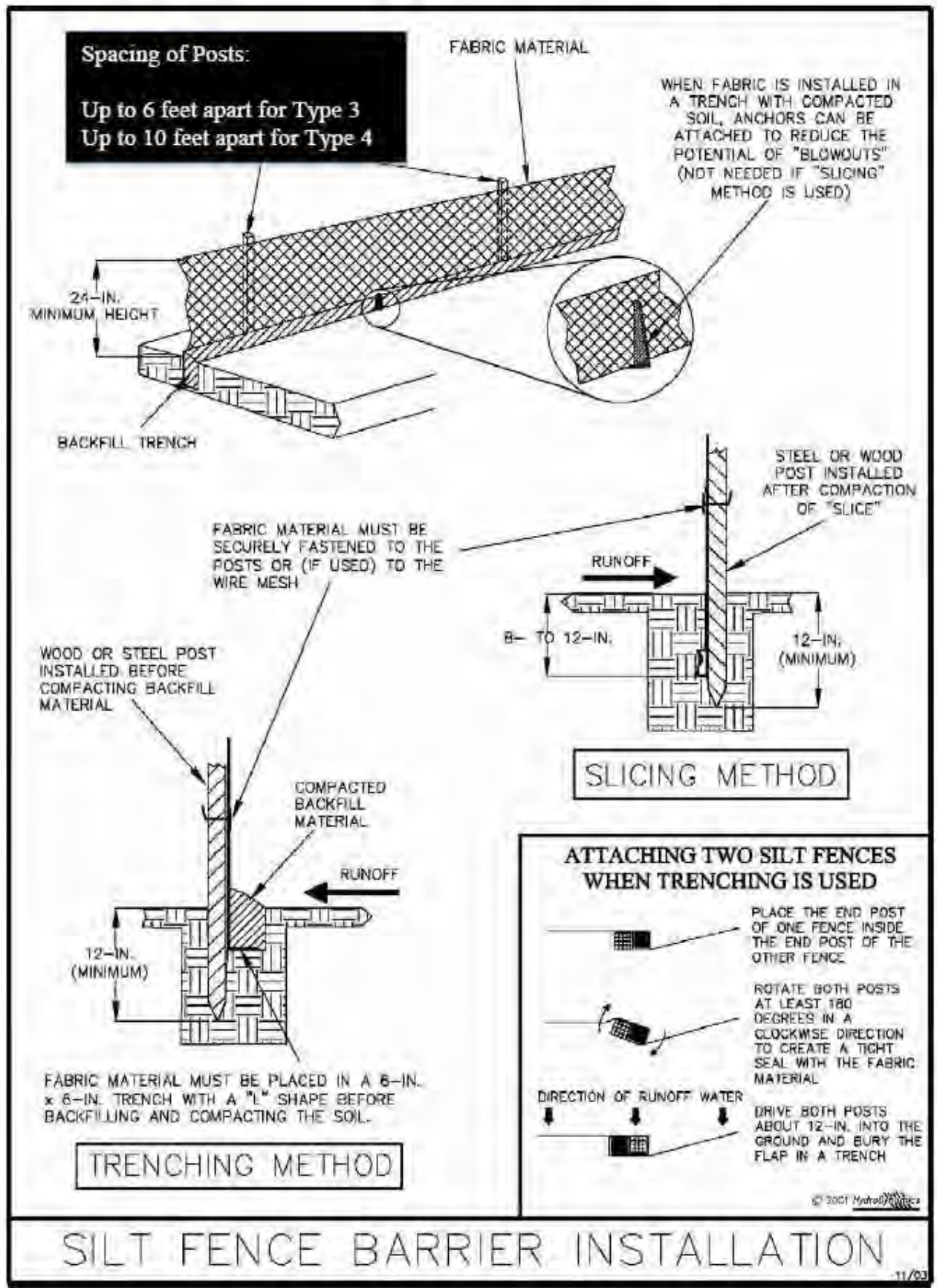
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ORLANDO, FL 32817

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. _____ COUNTY CIP NO. 02107099

EROSION AND SEDIMENT CONTROL PLAN (3)

SHEET NO.
107



NOTE: SILT FENCE DETAIL AND FLOATING TURBIDITY DETAIL WERE OBTAINED FROM THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, JULY 2013.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Geosyntec
consultants

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.
02107099

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SWPPP DETAILS

SHEET NO.
108

SUSERS SDATES STIMES SFILES

TRAFFIC CONTROL PLAN - GENERAL NOTES

1. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST PUBLISHED EDITION) AND THE FDOT STANDARDS PLANS INDEX 102 SERIES.
2. LANE CLOSURES SHALL BE PERMITTED DURING ACTIVE WORK PERIODS FROM 9 AM TO 4 PM. TIMES MAY BE ADJUSTED BY THE SEMINOLE COUNTY PROJECT MANAGER.
3. WORK ZONE AREA SHOULD BE LIMITED TO 500' AT A TIME OR A MAXIMUM OF 4 DRIVEWAYS.
4. THE REGULATORY SPEED LIMIT DURING CONSTRUCTION SHALL BE 25 MPH.
5. USE CHANGEABLE MESSAGE SIGNS AT THE BEGIN AND END PROJECT 7 DAYS PRIOR TO CONSTRUCTION AND FOR THE PROJECT DURATION. ANTICIPATED LOCATIONS INCLUDE LAKE HARNEY ROAD, WHITCOMB DRIVE AND CROSSOVER LANE.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCES AT ALL TIMES.
7. THE CONTRACTOR SHALL CONTACT RESIDENTS BEFORE REPLACING DRIVEWAYS.
8. THE TRAFFIC CONTROL PLAN IS INTENDED TO BE USED AS A GUIDE. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A PROFESSIONAL ENGINEER TO PREPARE, SIGN AND SEAL A TRAFFIC CONTROL PLAN THAT IS TO BE REVIEWED AND APPROVED BY SEMINOLE COUNTY PRIOR TO BEGINNING CONSTRUCTION.

PHASE I

THE INTENT OF THIS PHASE IS TO CONSTRUCT THE CROSS DRAINS UTILIZING LANE CLOSURES AND DETOURS.

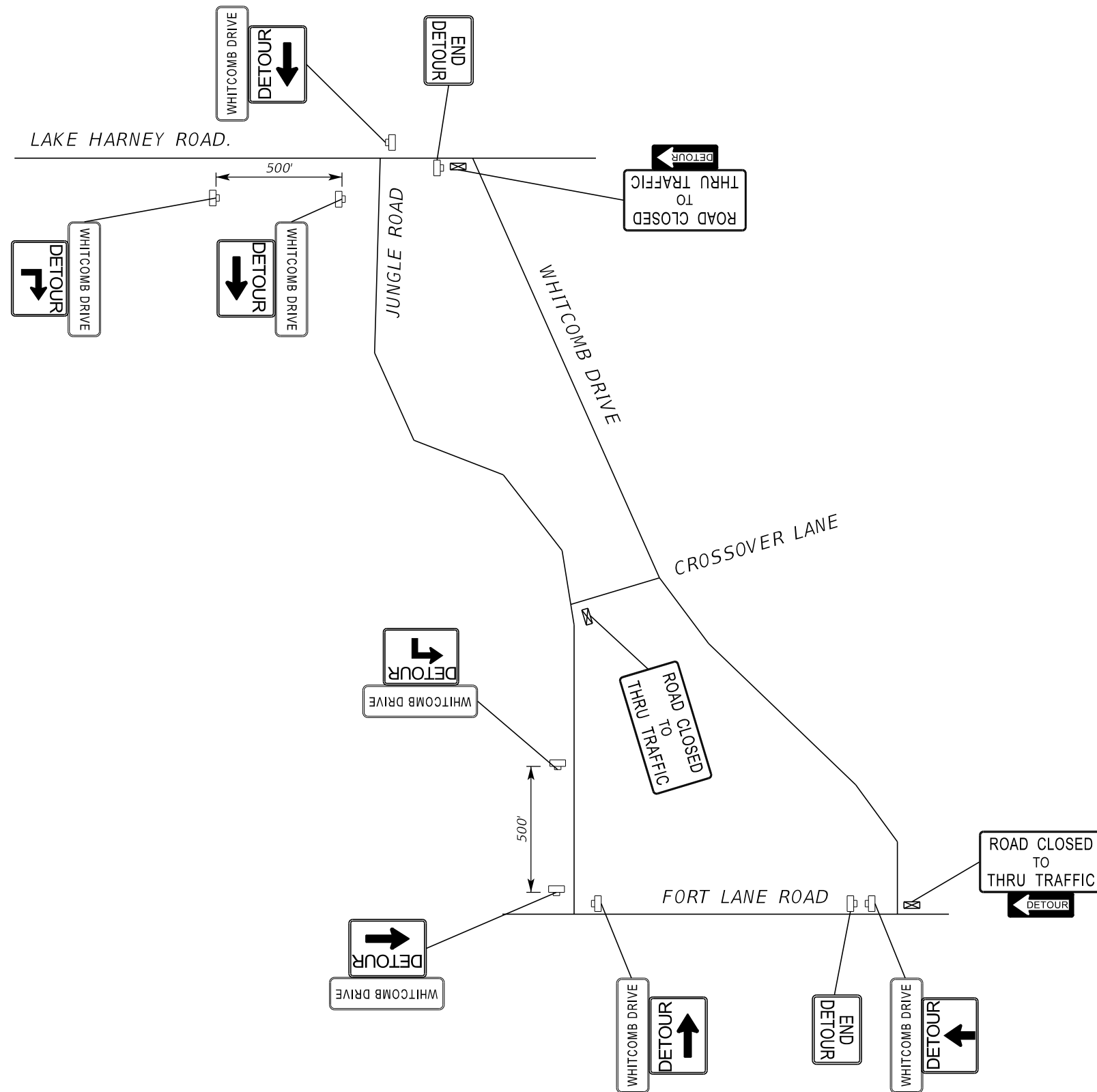
PHASE II

THE INTENT OF THIS PHASE IS TO CONSTRUCT THE ROADWAY, DITCHES AND DRIVEWAYS UTILIZING LANE CLOSURES AND DETOURS.

REVISIONS						 <small>Catherine L. Spiess, PE PE No. 62501 Certificate of Authorization No. 7074</small>	SEMINOLE COUNTY <small>ENGINEERING DIVISION</small>		TRAFFIC CONTROL SHEET	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		109

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DETOUR SIGNAGE DETAIL



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
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Certificate of Authorization No. 7074

3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
p 407.971.8850

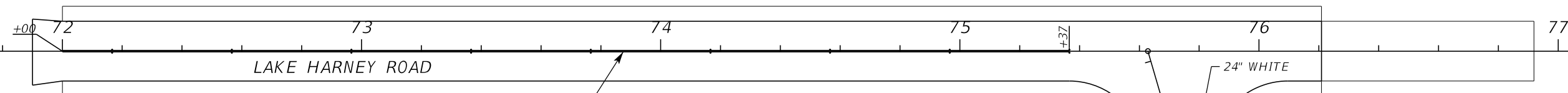
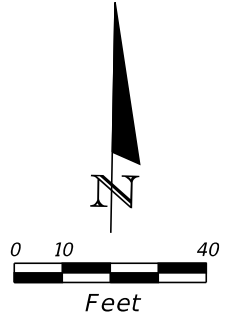
SEMINOLE COUNTY
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ROAD NO.	COUNTY CIP NO.
WHITCOMB DRIVE	02107099

TRAFFIC CONTROL SHEET

SHEET NO.
110

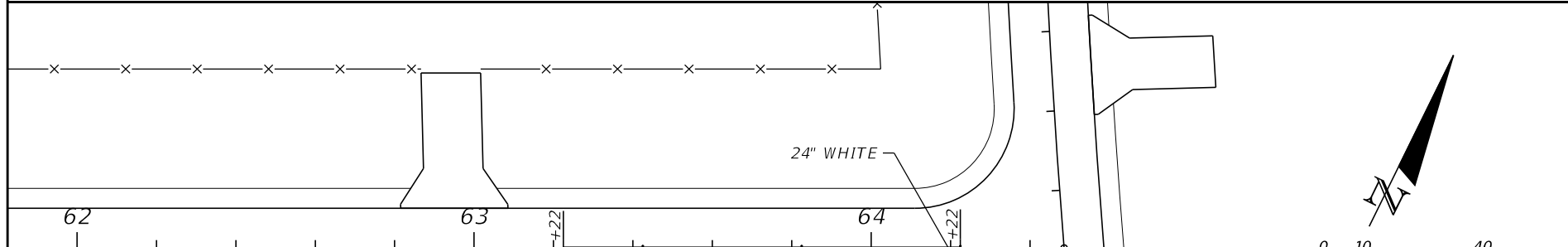
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6" DOUBLE YELLOW W
Y/Y RPMS (40' O.C.)

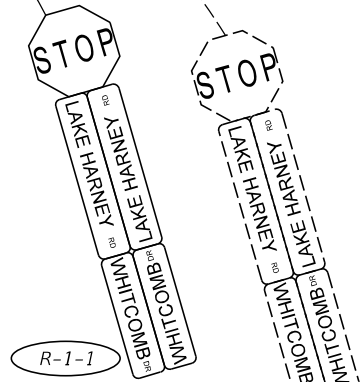
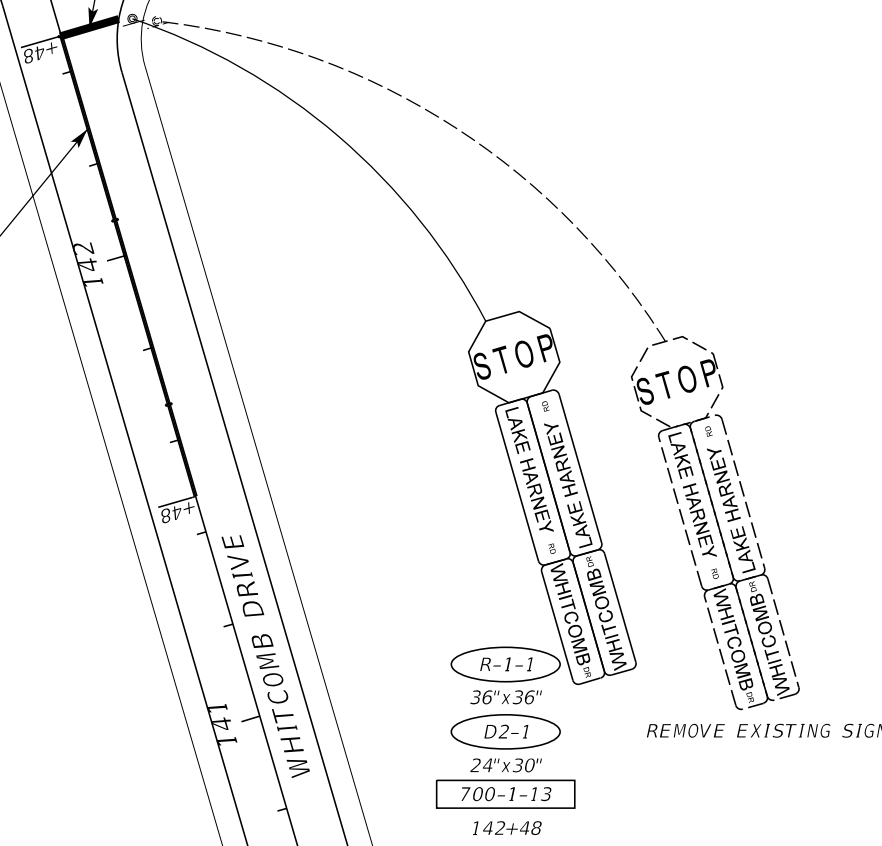
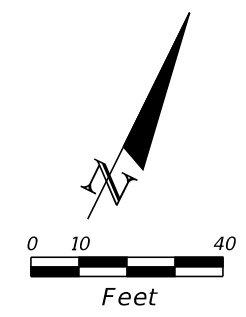
6" DOUBLE YELLOW W
Y/Y RPMS (40' O.C.)

24" WHITE



24" WHITE

6" DOUBLE YELLOW W
Y/Y RPMS (40' O.C.)

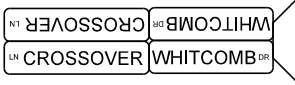
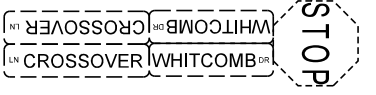


R-1-1
36"x36"
D2-1
24"x30"
700-1-13
142+48

REMOVE EXISTING SIGN

REMOVE EXISTING SIGN

R-1-1
36"x36"
D2-1
24"x30"
700-1-13
64+23



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood
consulting engineers

Catherine L. Spiess, PE
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SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

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SIGNING AND PAVEMENT
MARKINGS DETAIL

SHEET NO.
III

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