

COMPONENTS OF CONTRACT PLANS SET
DRAINAGE IMPROVEMENT PLANS

SEMINOLE COUNTY
ENGINEERING DIVISION
CONTRACT PLANS



WHITCOMB DRIVE DRAINAGE IMPROVEMENTS
CIP NO. 02107099

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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>

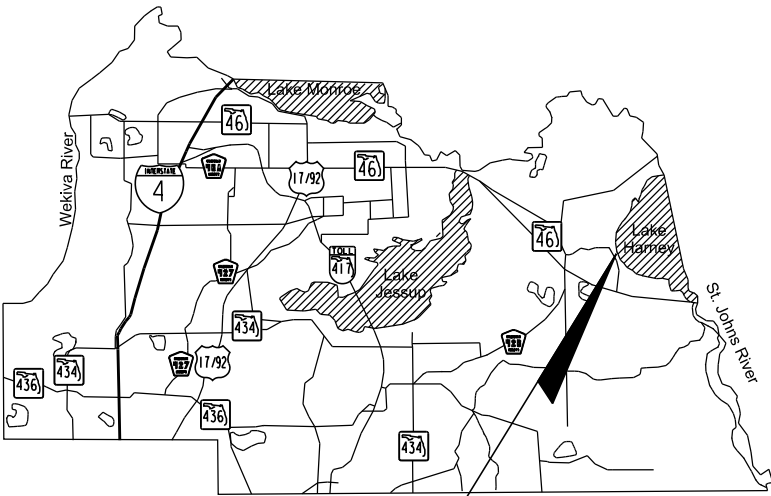
BOARD OF COUNTY COMMISSIONERS

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

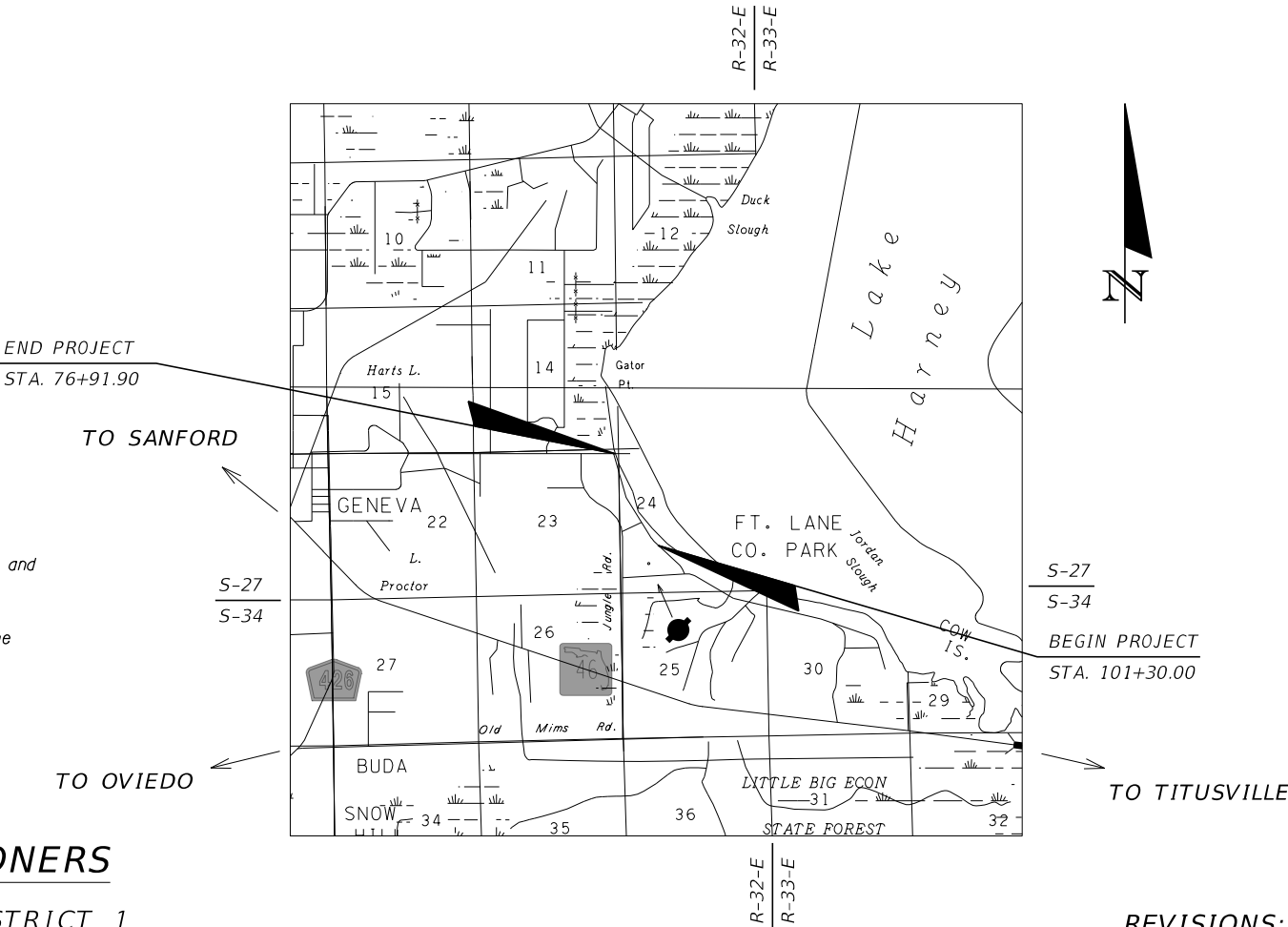
PROJECT IS LOCATED IN DISTRICT 2

BRYANT APLEGATE, INTERIM COUNTY MANAGER

PUBLIC WORKS DIRECTOR: JEAN JREIJ, P.E.



PROJECT LOCATION



90% SUBMITTAL
DECEMBER 2022
NOT FOR CONSTRUCTION

PLANS PREPARED BY:

Geosyntec
consultants

3504 LAKE LYNDIA 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

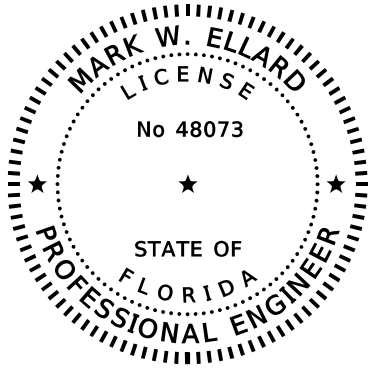
REVISIONS:

COUNTY PROJECT MANAGER:
CHRISTOPHER COLEMAN, 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.



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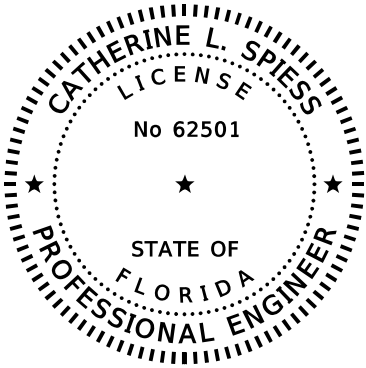
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GEOSYNTEC CONSULTANTS, INC.
3504 LAKE LYNDA DRIVE, SUITE 155
ORLANDO, FL 32817
MARK W. ELLARD, P.E. NO. 48073

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

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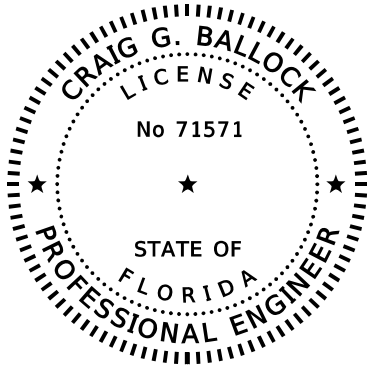
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INWOOD CONSULTING ENGINEERS, INC.
3000 DOVERA DRIVE, SUITE 200
OVIEDO, FL 32765
CATHERINE L. SPIESS, P.E. NO. 62501

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
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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.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
							WHITCOMB DRIVE	02107099	2	

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

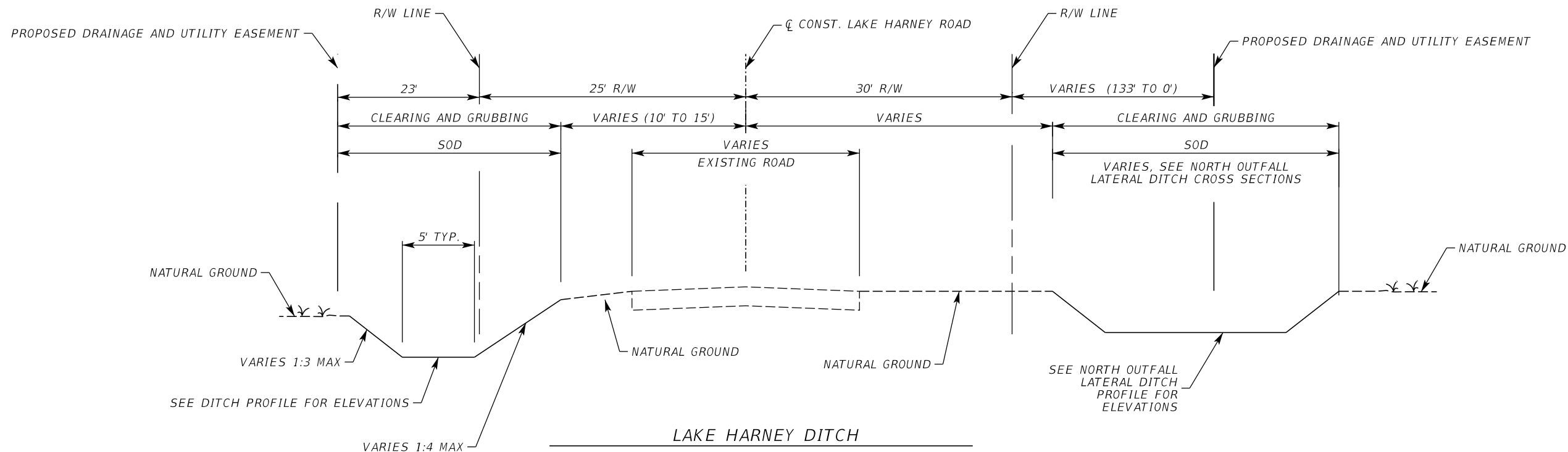
INCLUDES THE COST OF REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS, FENCE REMOVAL, VEGETATION, ASPHALT, TRIMMING OF TREES AS NECESSARY AND ALL OTHER ITEMS IN ORDER TO CONSTRUCT THE PROJECT.
- 900-1

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.

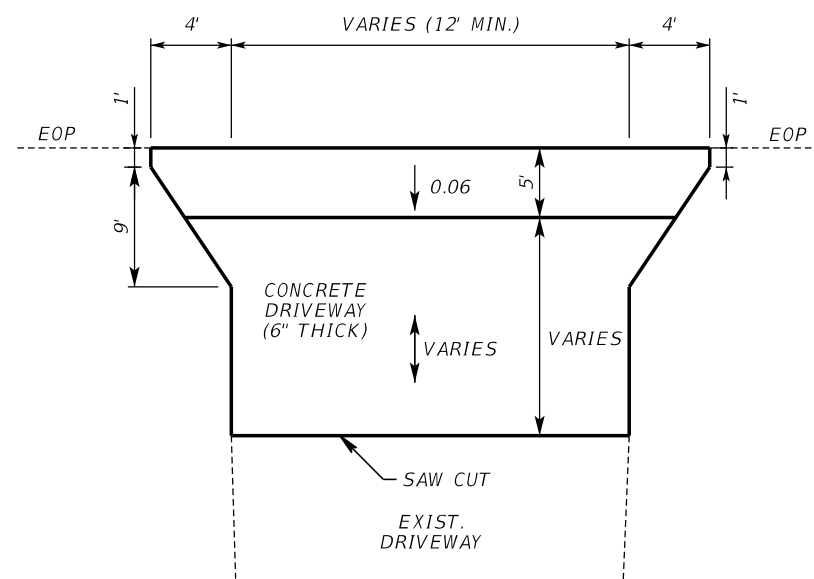
CROSS-DRAINS STRUCTURES				CROSS-DRAINS STRUCTURES				PROPOSED-WHITCOMB-WEST STRUCTURES			
STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES	STRUCTURE ID	TYPE	RIM ELEVATION	CONNECTED PIPES
CD-200A	MES	0.00	NE 34" ERCP INV EL = 3.90'	CD-205C	MES	7.62	W 34" 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'				
CD-200C	MES	0.00	NE 34" ERCP INV EL = 3.90'	CD-205E	MES	7.62	W 34" ERCP INV EL = 3.79'				
CD-200D	MES	0.00	NE 34" ERCP INV EL = 3.90'	CD-206	BOX CULVERT HEADWALL	7.80	E SIX (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'								

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						

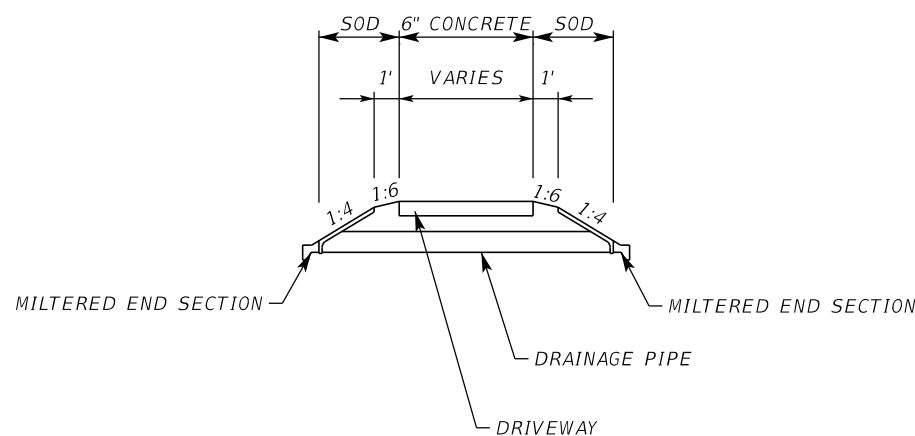


TRAFFIC DATA

DESIGN SPEED = 25 MPH
POSTED SPEED = 25 MPH



DRIVEWAY DETAIL
SEE PLANS FOR LOCATIONS



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 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	SUMMARY OF QUANTITIES		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
										12

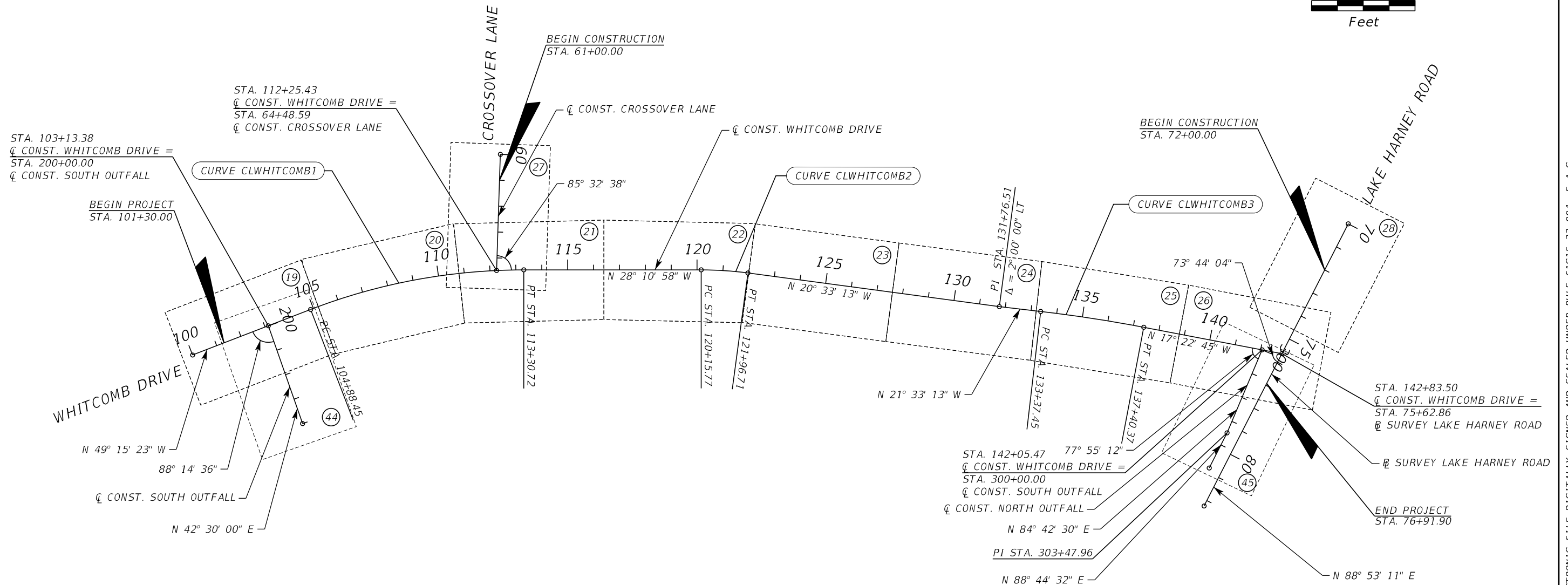
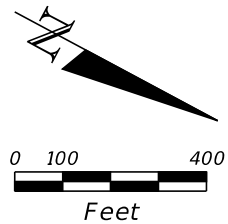
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SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES
		STA. TO STA.				AREA (AC)	AREA (SY)	P	F	P	F	
110-4-10	REMOVAL OF EXIST. CONCRETE	62+81.48 to 63+08.51	LT	14698	SY			41.9		557		EXIST. DRIVEWAY
		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								

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS		
					0522 2					
					SY					
					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 10										

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	65.7		96		WHITCOMB DRIVE	
	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,	125+44.28	to	125+51.28	LT	EA	1.0		1		WHITCOMB DRIVE	
	6.1' - 12.0' OPENING											

SUMMARY OF PERFORMANCE TURF								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
STA. TO STA.					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						



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

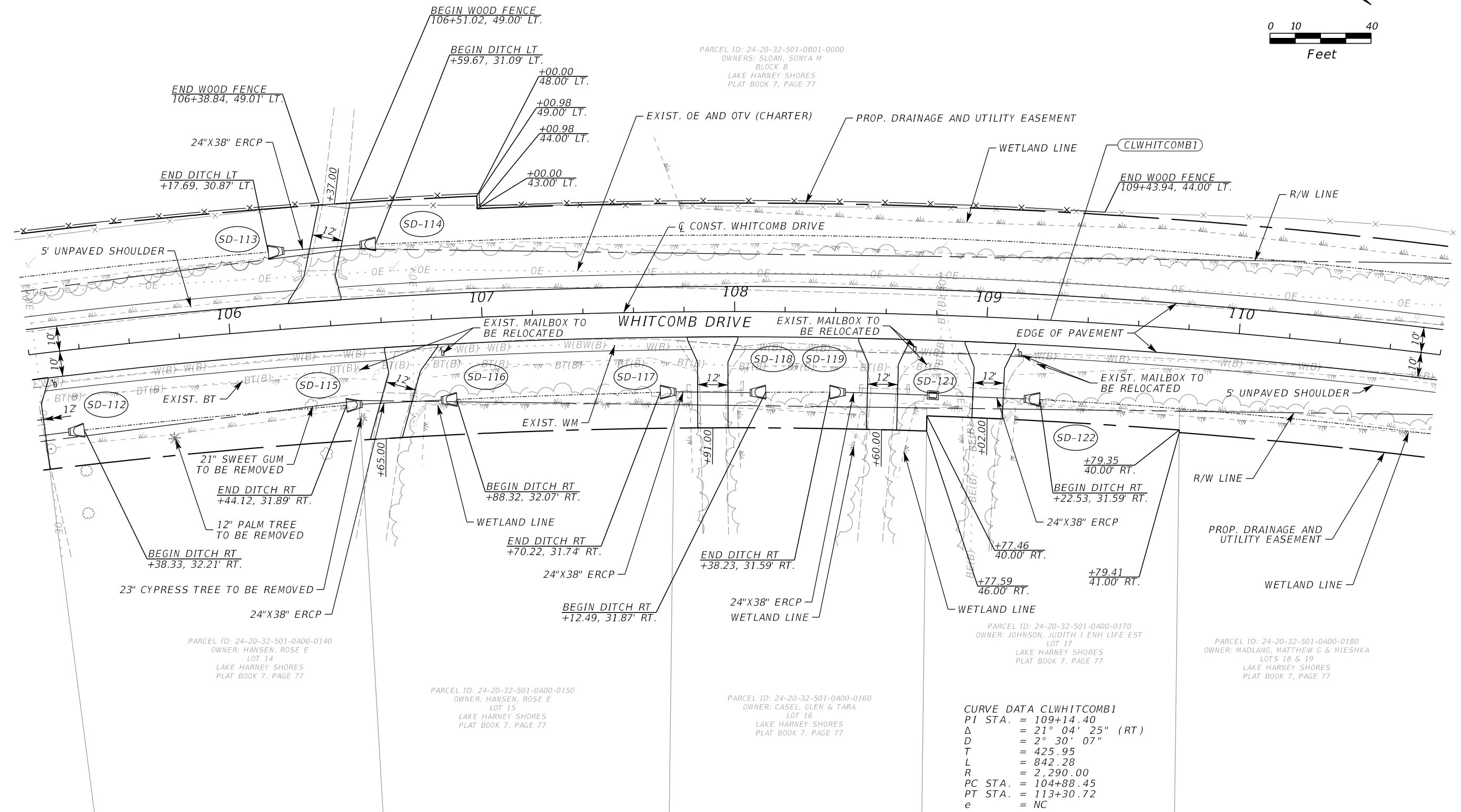
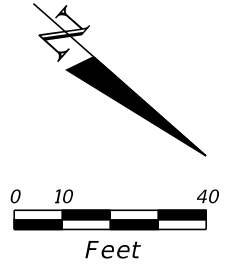
CURVE DATA CLWHITCOMB2
PI STA. = 121+06.37
Δ = 7° 37' 45" (RT)
D = 4° 12' 59"
T = 90.61
L = 180.94
R = 1,358.92
PC STA. = 120+15.77
PT STA. = 121+96.71
e = NC

CURVE DATA CLWHITCOMB3
PI 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

REVISIONS						 Catherine L. Spiess, PE PE No. 62501 Certificate of Authorization No. 7074	SEMINOLE
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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.</

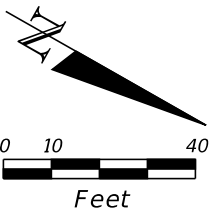


CURVE DATA CLWHITCOMB1
PI STA. = 109+14.40
Δ = 21° 04' 25" (RT)
D = 2° 30' 07"
T = 425.95
L = 842.28
R = 2,290.00
PC STA. = 104+88.45
PT STA. = 113+30.72
e = NC

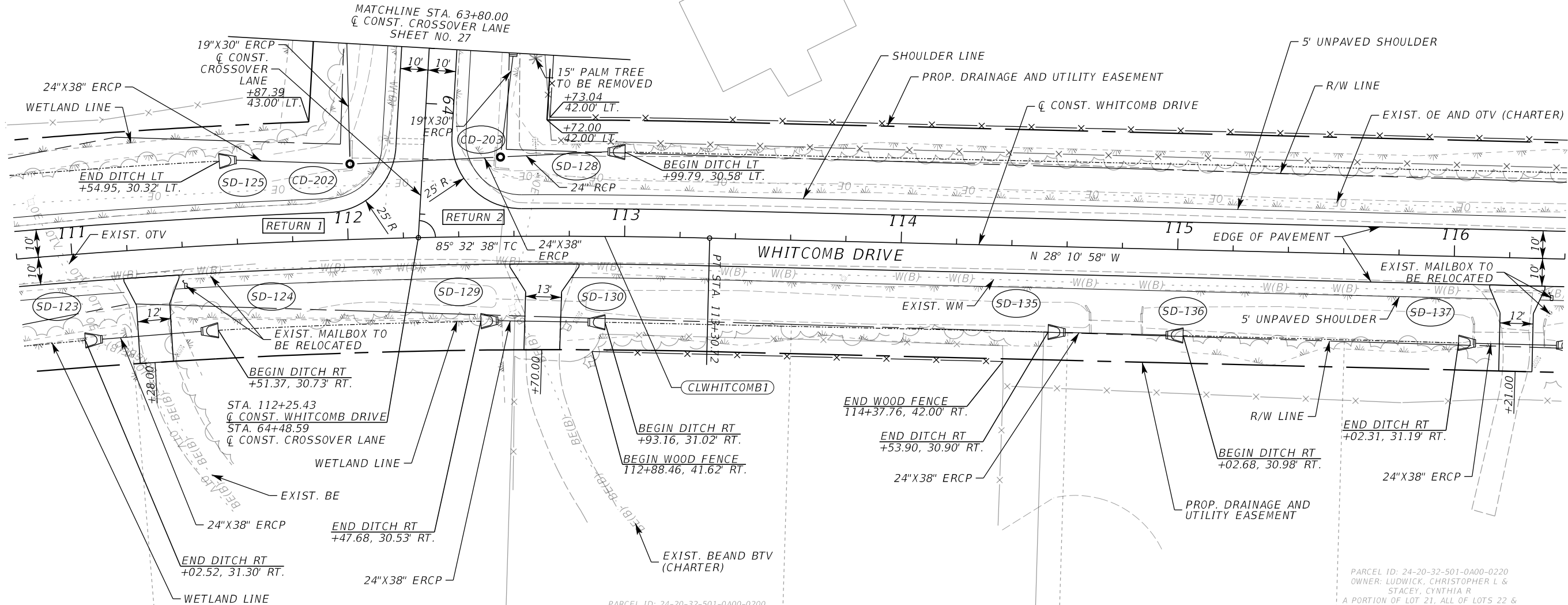
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.			
						Catherine L. Spiess, PE PE No. 62501 Certificate of Authorization No. 7074	3000 Dovera Drive, Suite 200 Oviedo, Florida 32765 p 407.971.8850	WHITCOMB DRIVE	02107099		

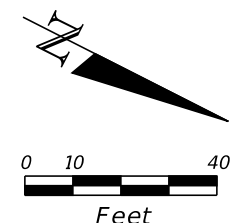
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RETURN NO.	PC			LOW POINT			PT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
1	112+93.56	10.00' LT.	8.90	110+10.27	16.58' LT	8.60	112+18.10	32.81' LT.	8.90
2	112+38.16	36.70' LT	8.90	112+44.63	17.96' LT	8.60	112+62.71	10.00' LT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



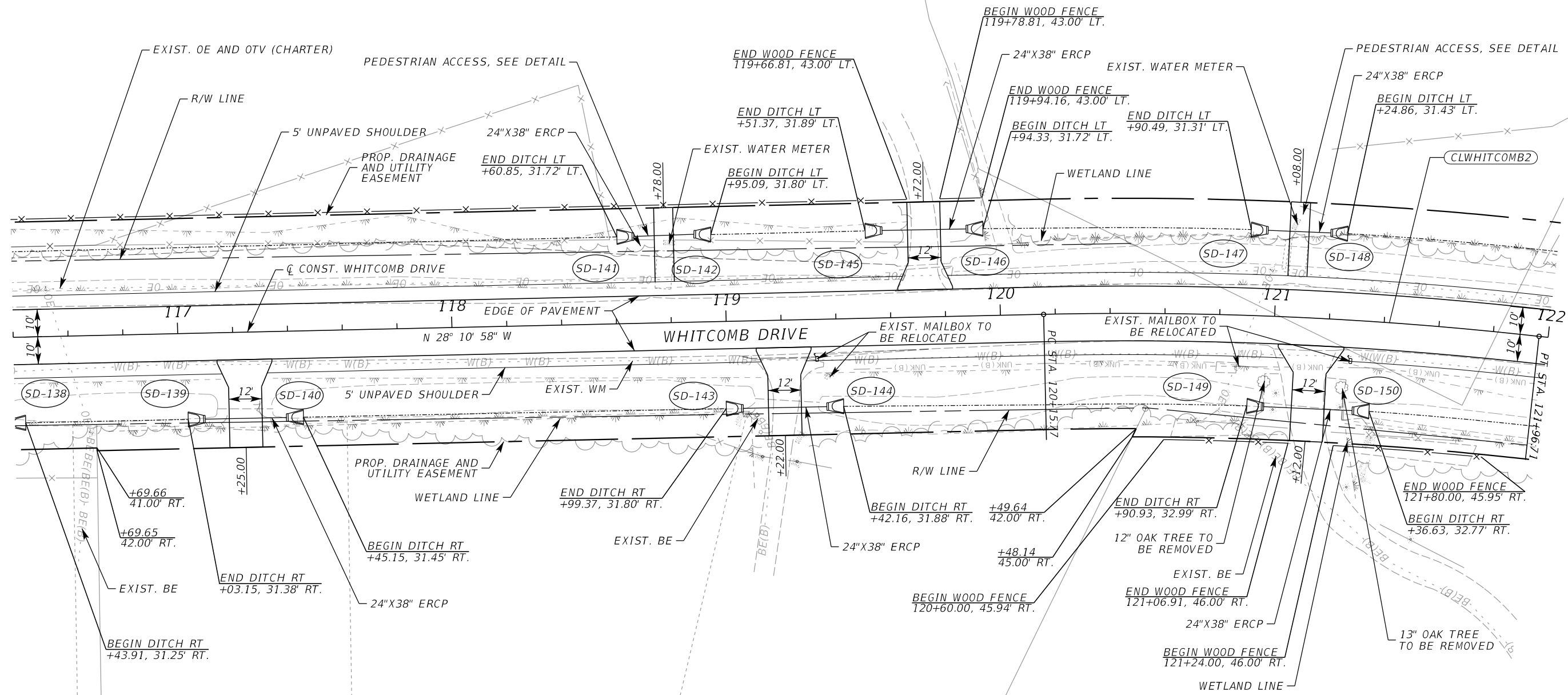
PARCEL ID: 24-20-32-501-0C00-0000
OWNERS: CLARK, RANDOLPH P & VIRGINIA W
BLOCK C
LAKE HARNEY SHORES
PLAT BOOK 7, PAGE 77





PARCEL ID: 24-20-32-501-0C00-0000
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



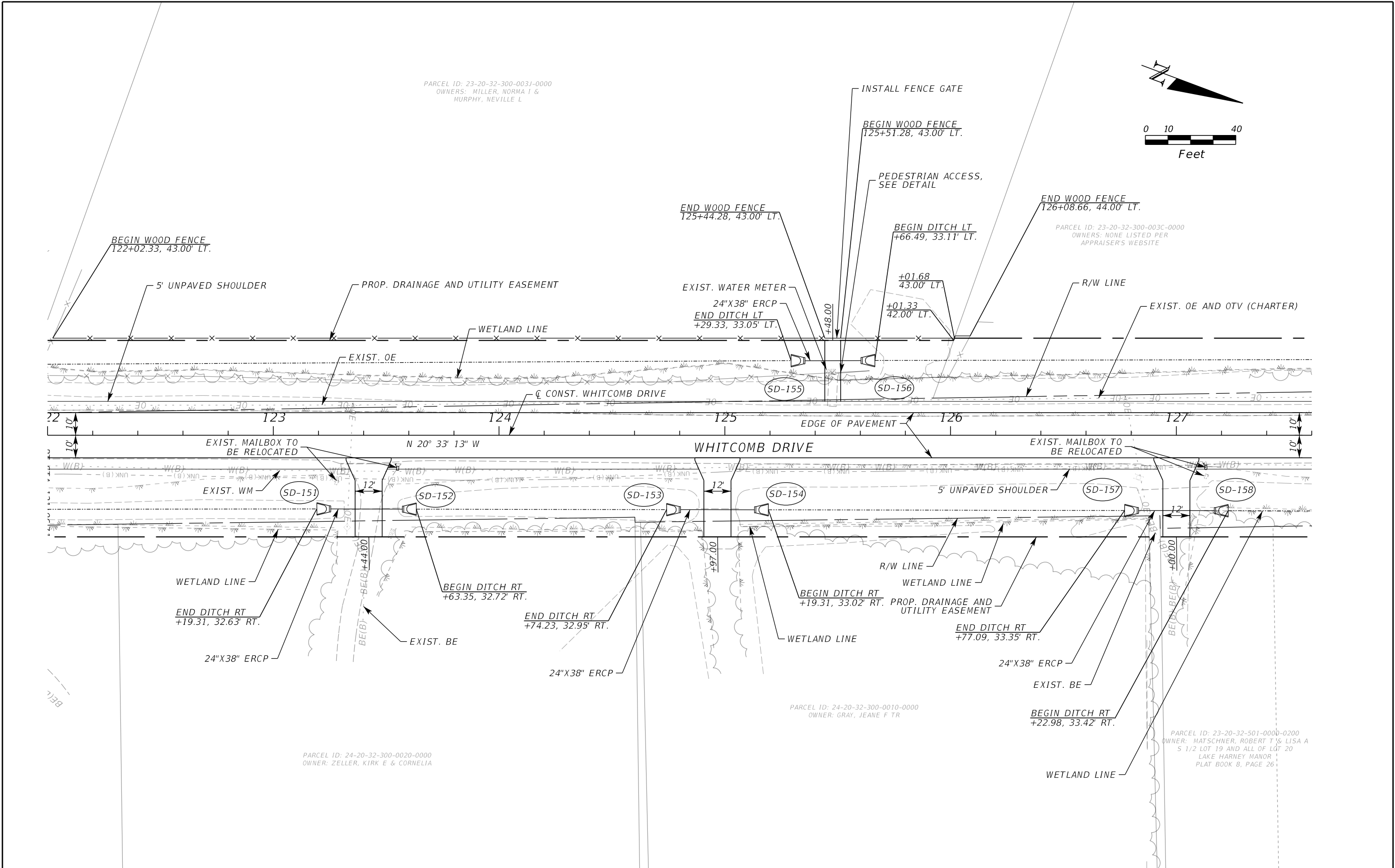
PARCEL ID: 24-20-32-501-0A00-0240
OWNER: CARTER, JOHN R
A PORTION OF LOT 24
AND ALL OF LOT 25
LAKE HARNEY SHORES
PLAT BOOK 7, PAGE 77

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

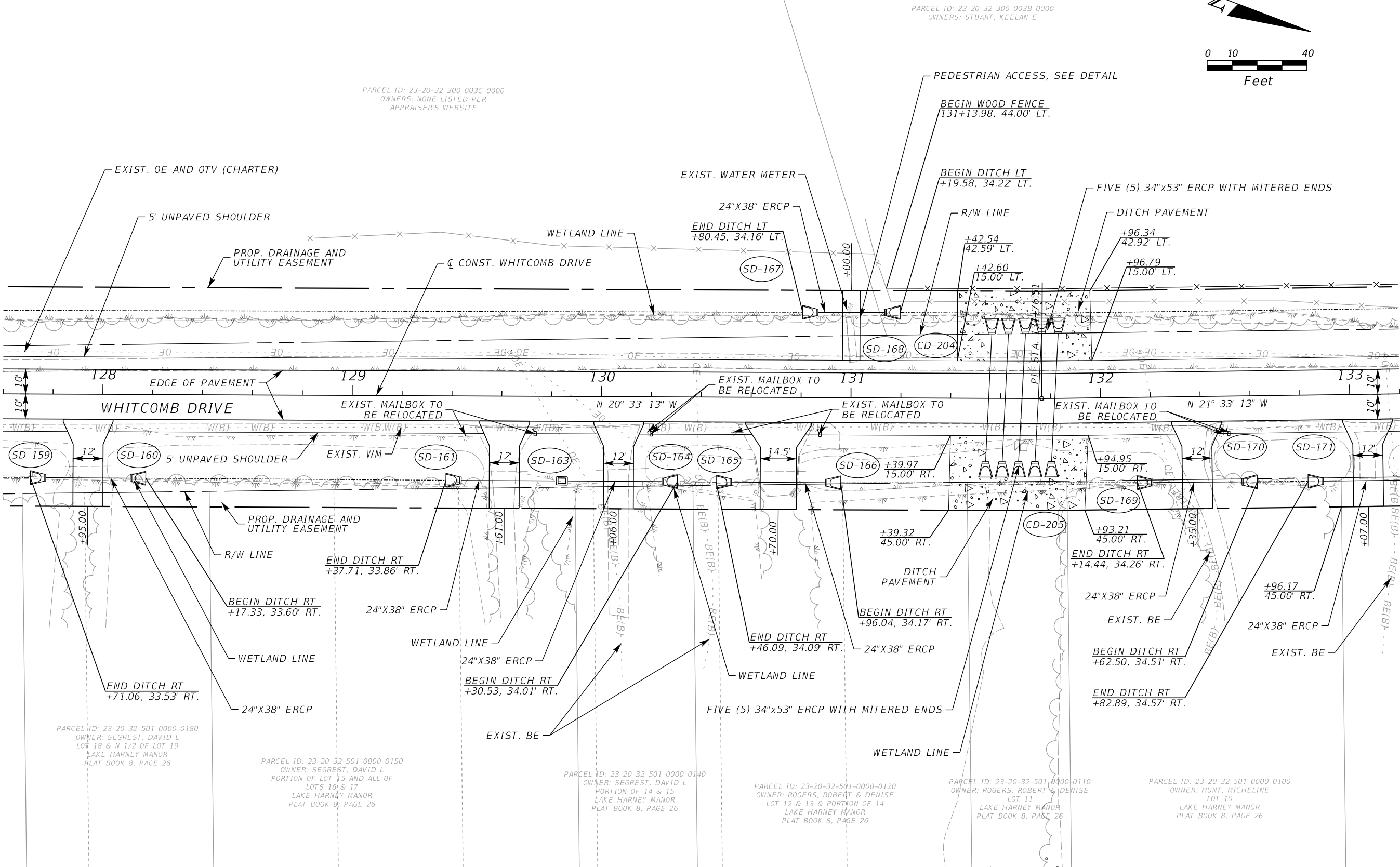
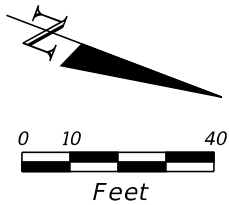
PARCEL ID: 24-20-32-300-0030-0000
OWNER: BAUER, TIMOTHY J & PATRICIA L

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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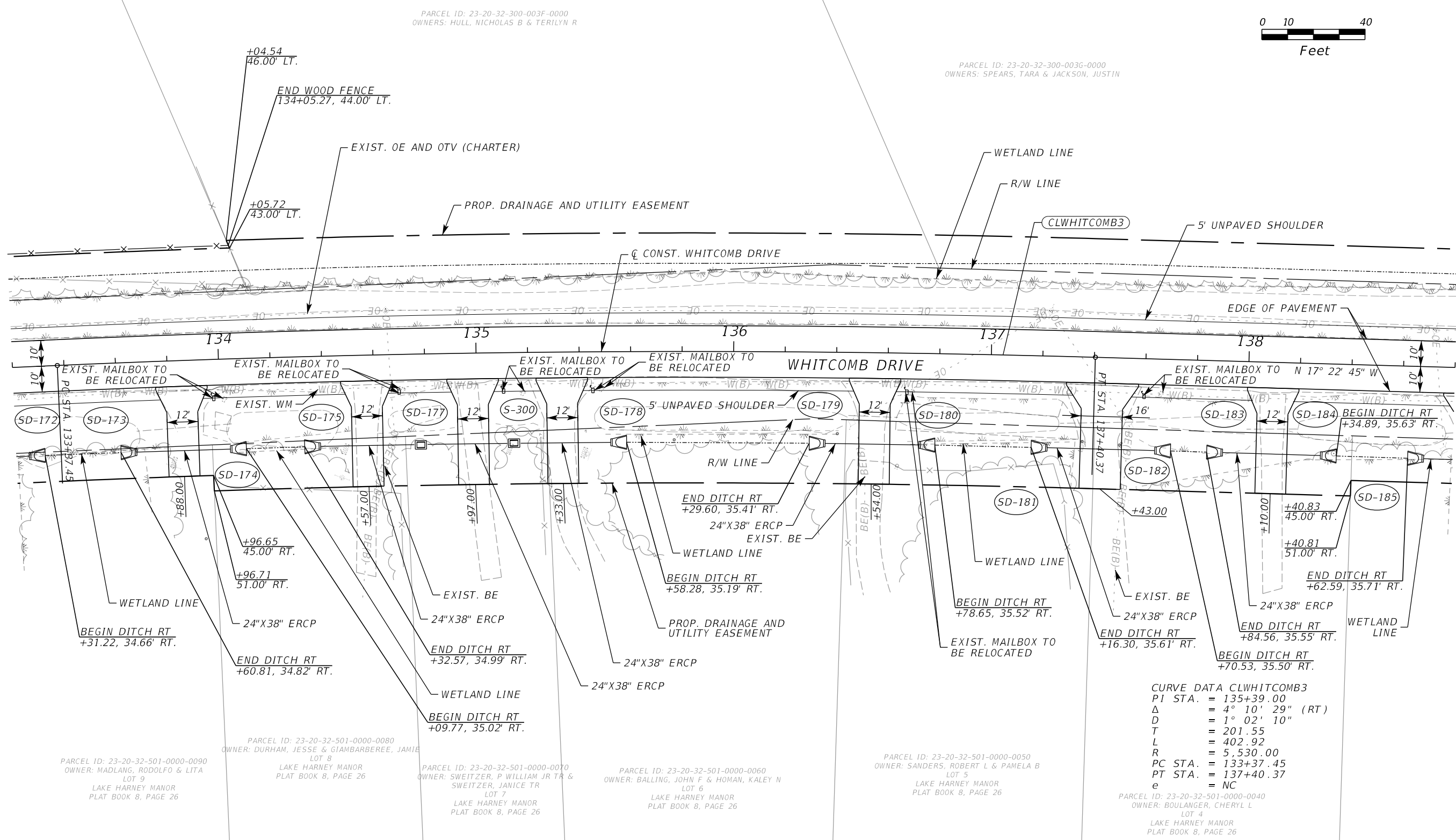
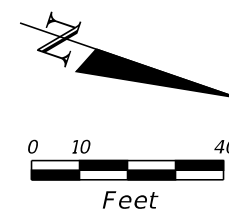


REVISIONS



REVISIONS							SEMINOLE COUNTY ENGINEERING DIVISION		PLAN SHEET WHITCOMB DRIVE		SHEET NO. 24
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						Catherine L. Spiess, PE PE No. 62501 Certificate of Authorization No. 7074	3000 Dovera Drive, Suite 200 Oviedo, Florida 32765 p 407.971.8850	ROAD NO. WHITCOMB DRIVE	COUNTY CIP NO. 02107099		

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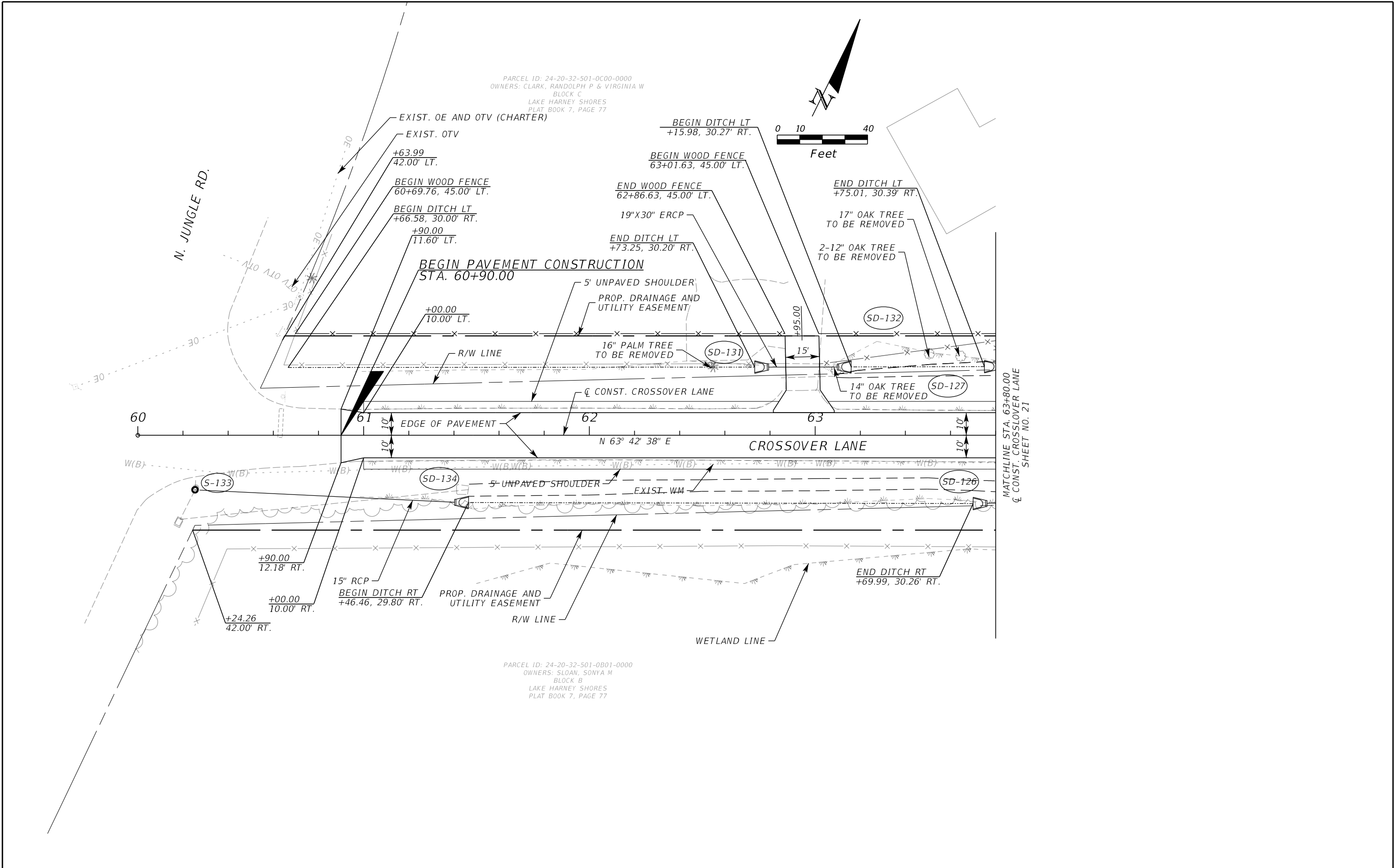
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Δ = 4° 10' 29" (RT)
D = 1° 02' 10"
T = 201.55
L = 402.92
R = 5,530.00
PC STA. = 133+37.45
PT STA. = 137+40.37
e = NC

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

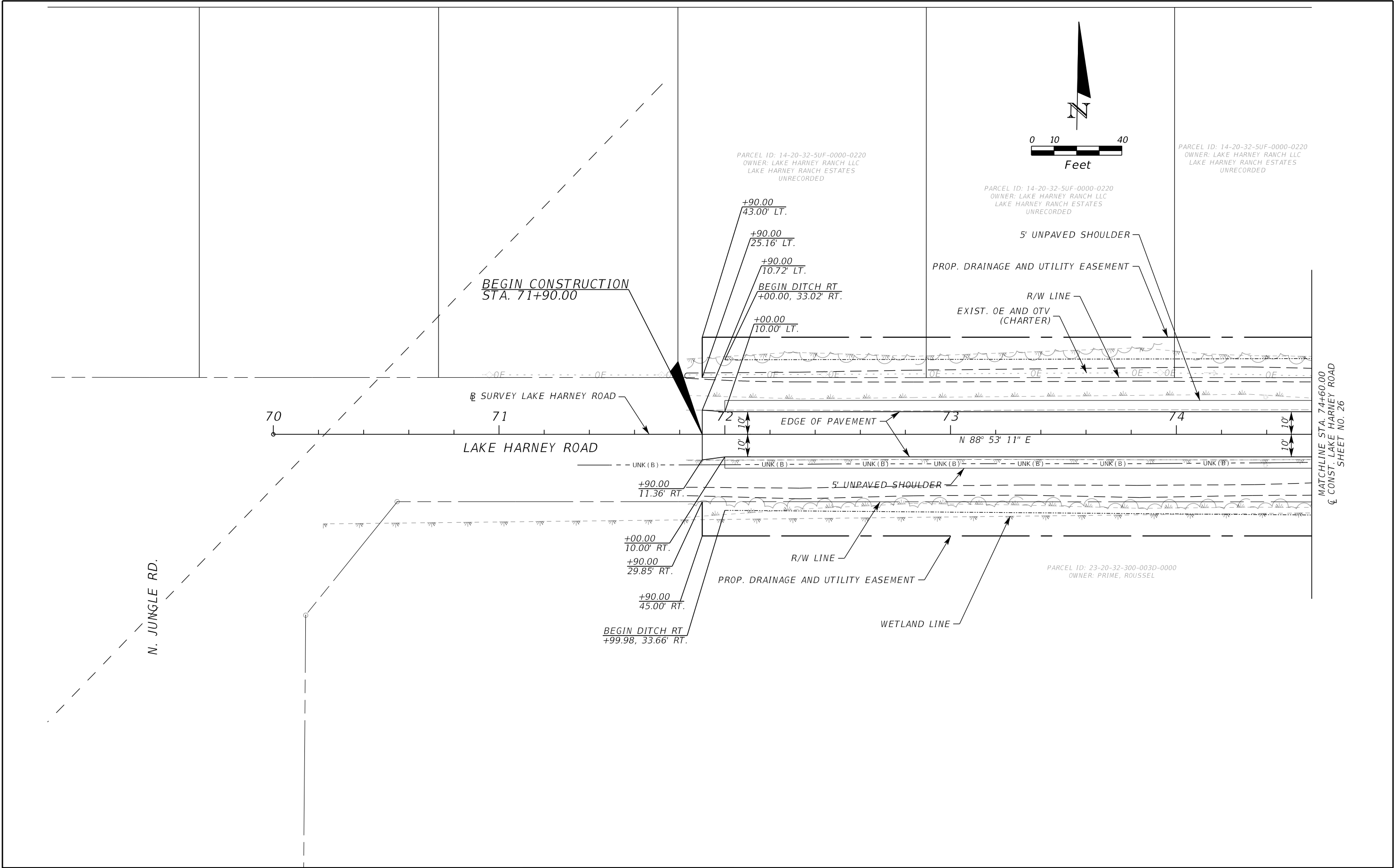
PARCEL ID: 23-20-32-501-0000-0080
OWNER: DURHAM, JESSE & GIAMBARBEREE, JAMIE
LOT 8
LAKE HARNEY MANOR
PLAT BOOK 8, PAGE 26

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

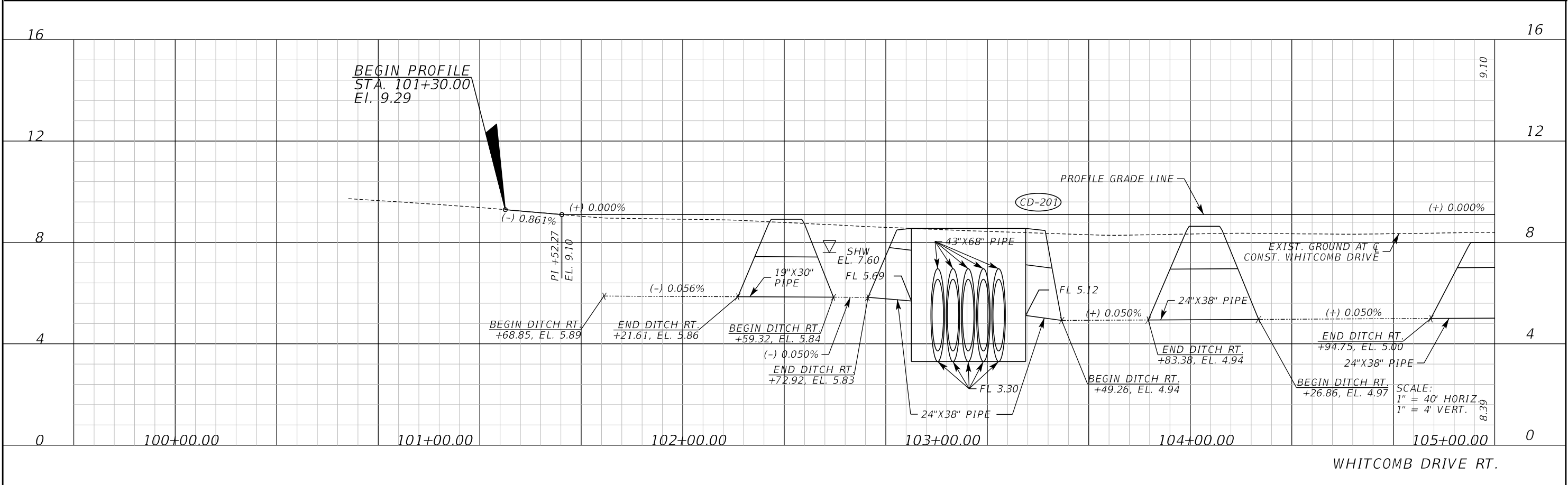
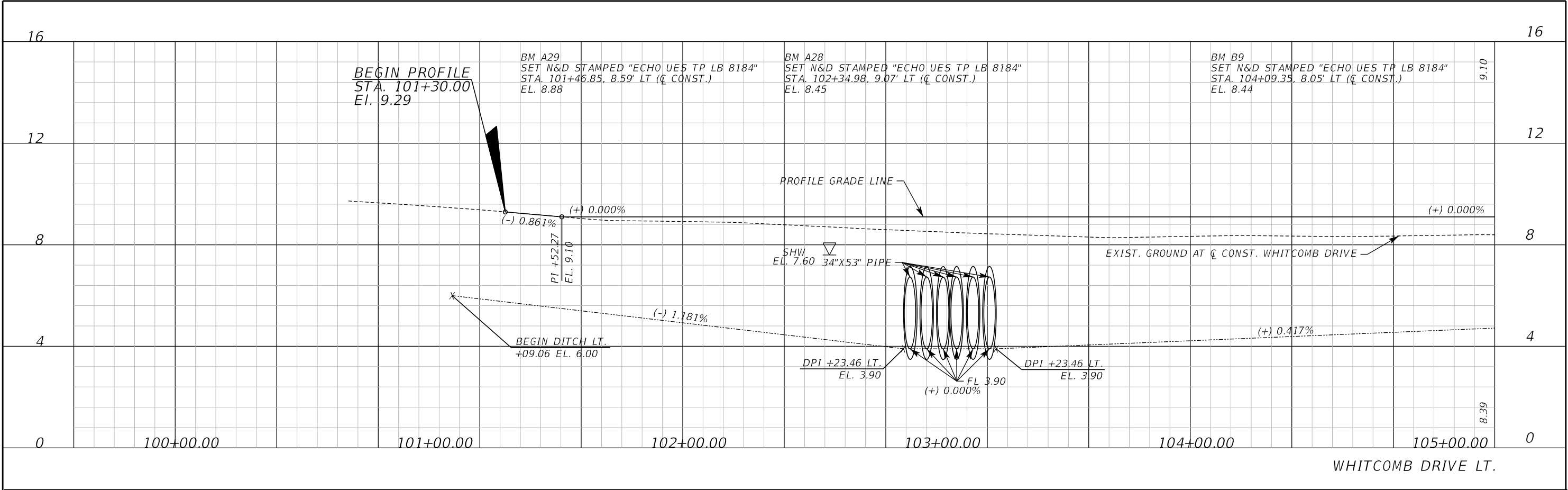
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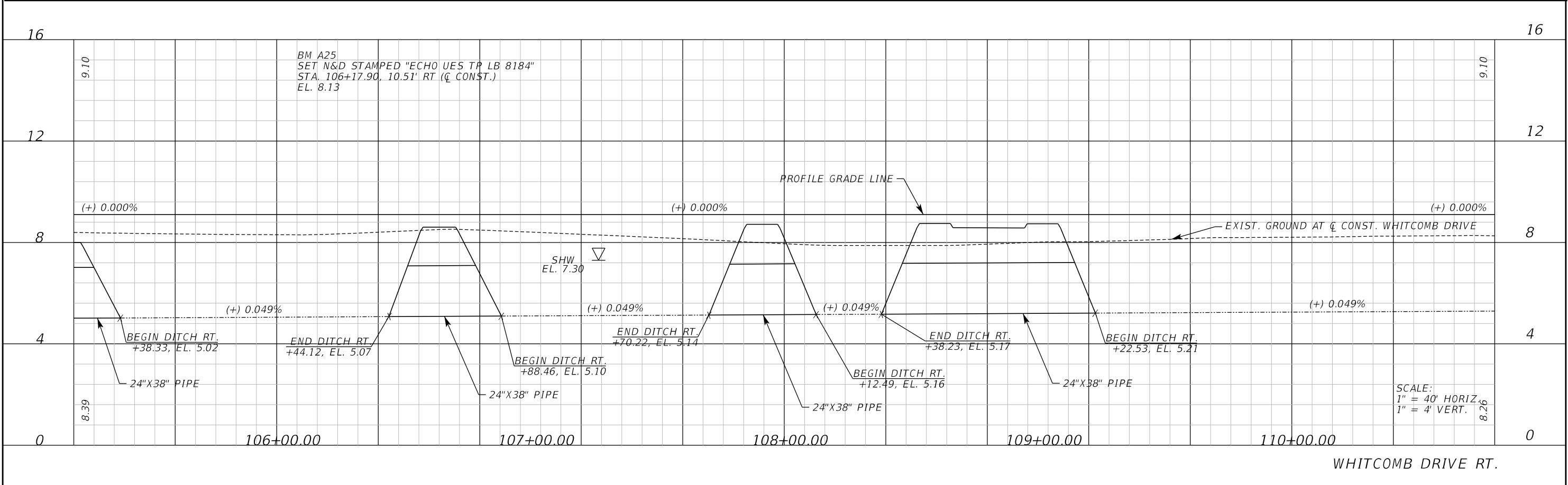
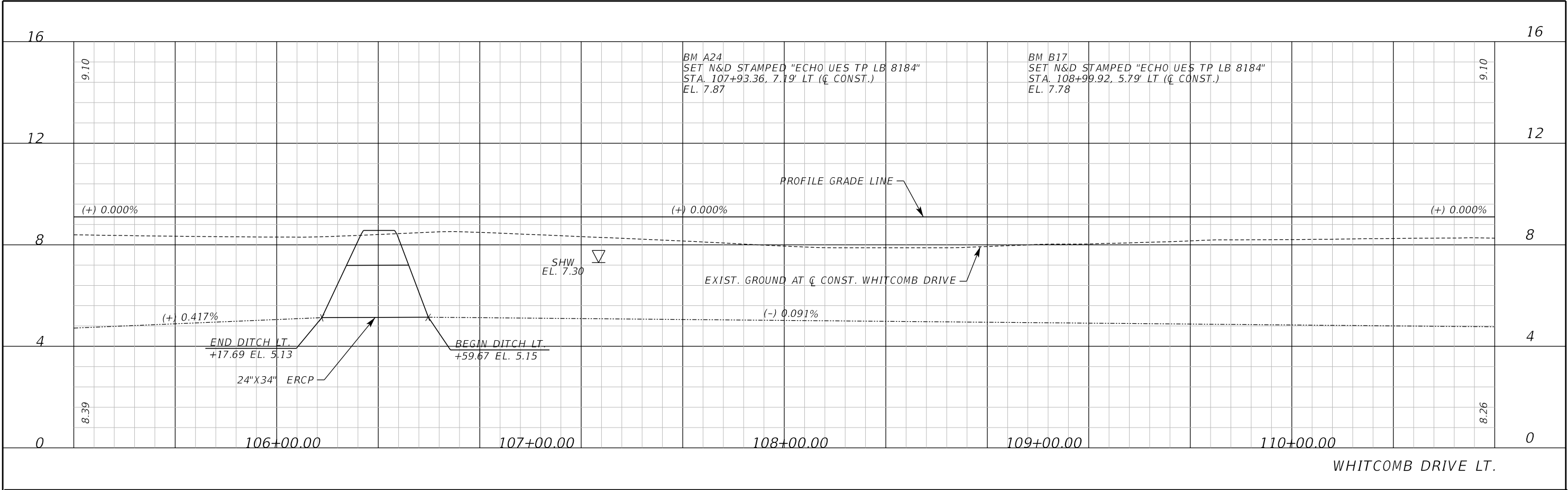


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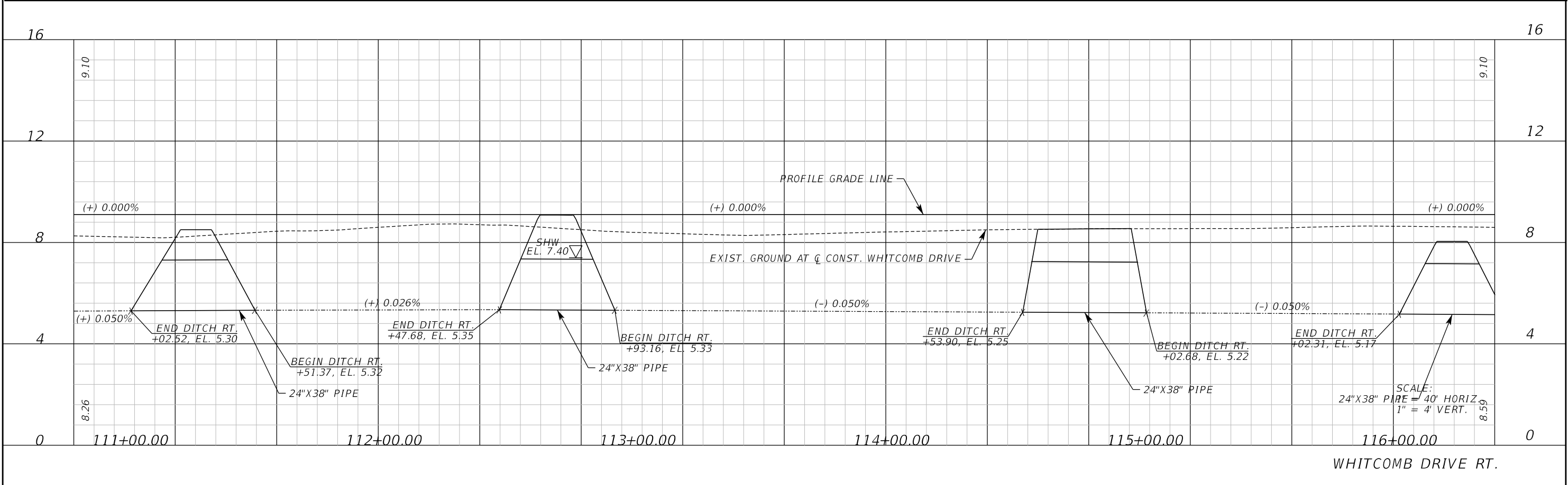
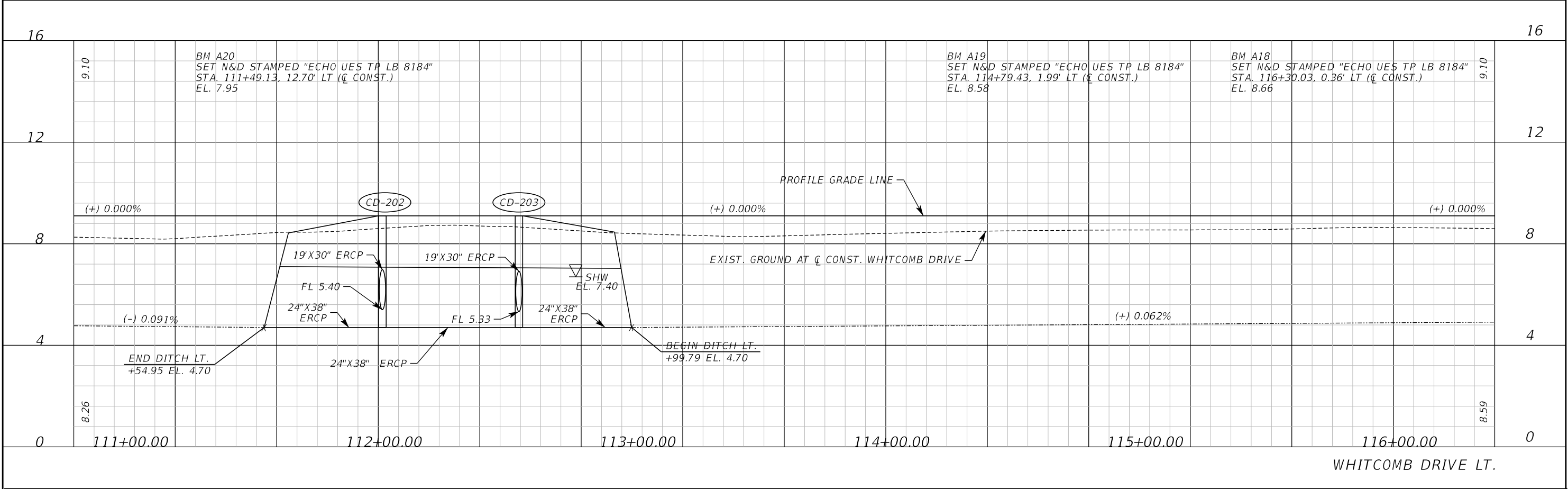


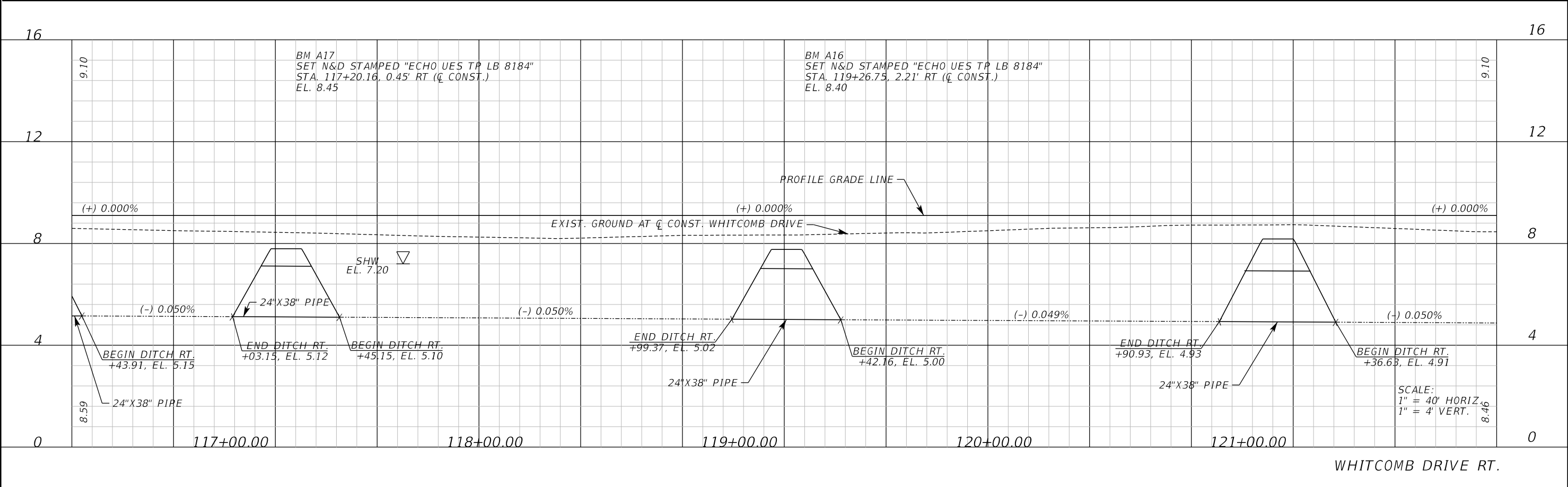
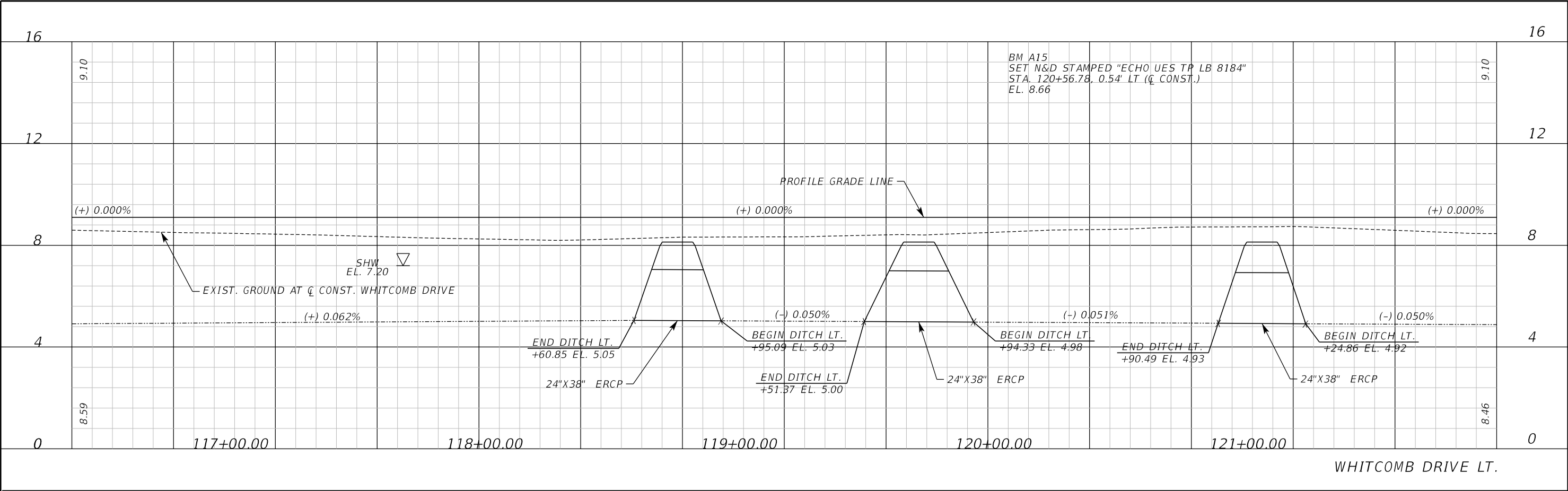
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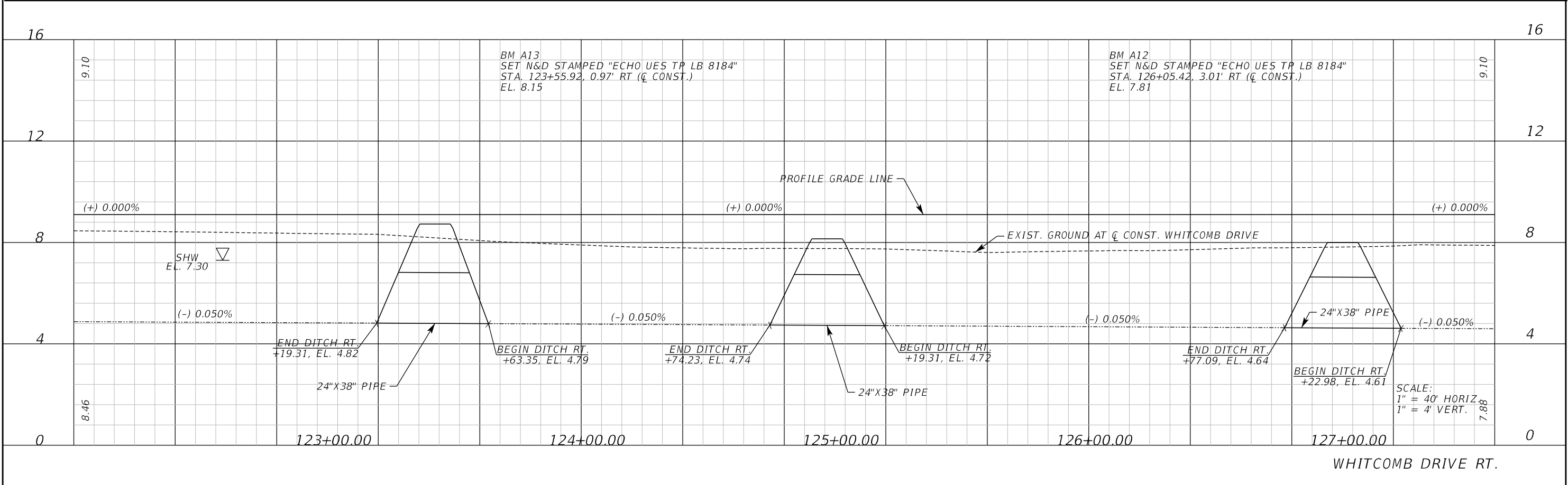
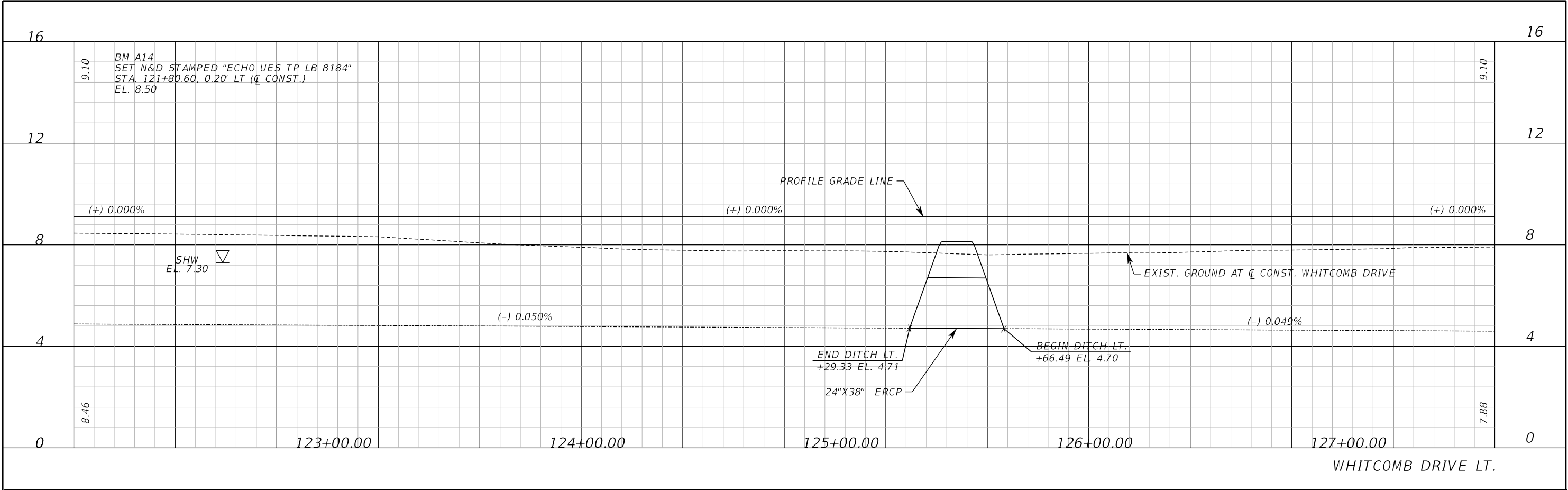




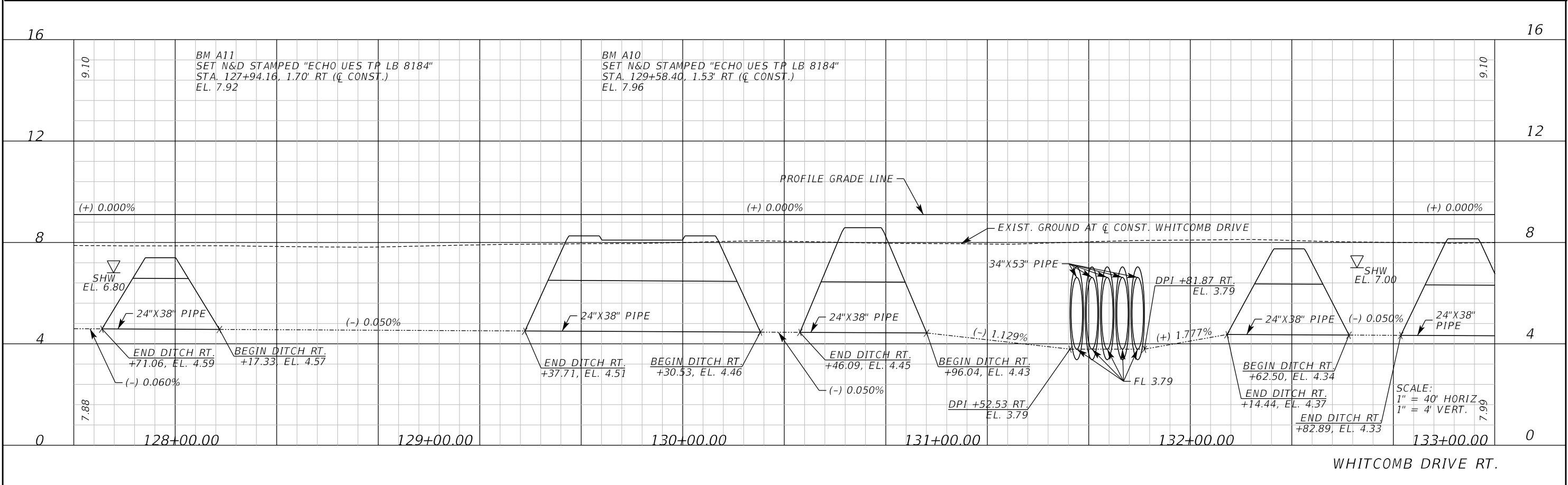
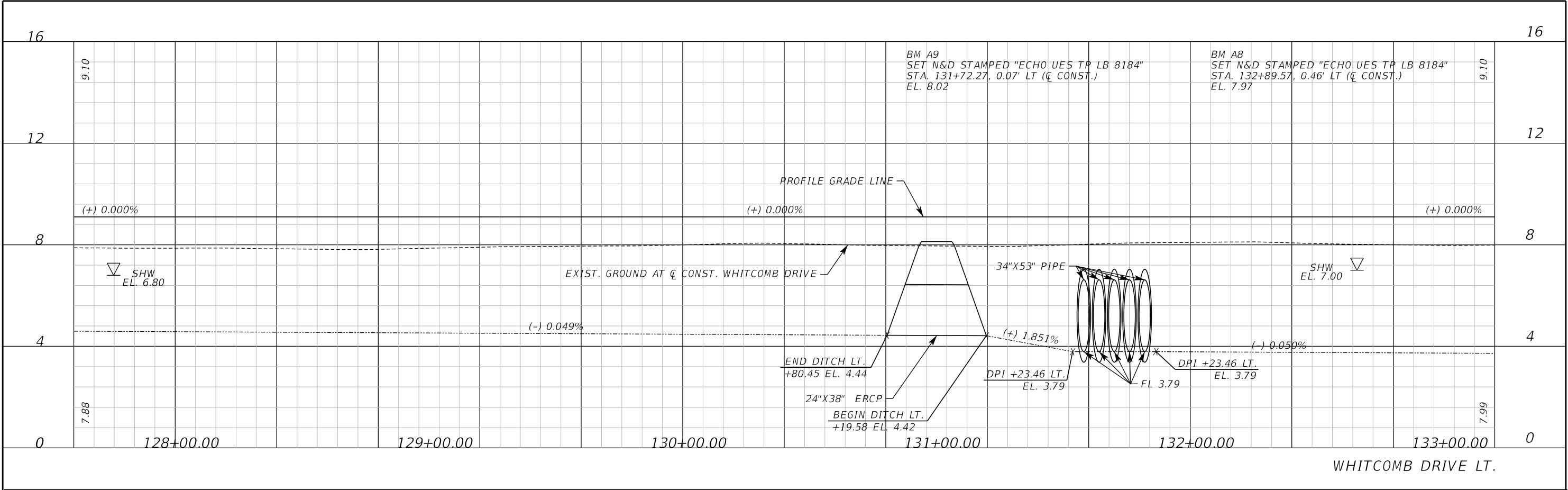
REVISIONS		 Inwood consulting engineers Catherine L. Spiess, PE PE No. 62501 Certificate of Authorization No. 7074 3000 Dovera Drive, Suite 200 Oviedo, Florida 32765 p 407.971.8850 SEMINOLE COUNTY ENGINEERING DIVISION ROAD NO. COUNTY CIP NO. </
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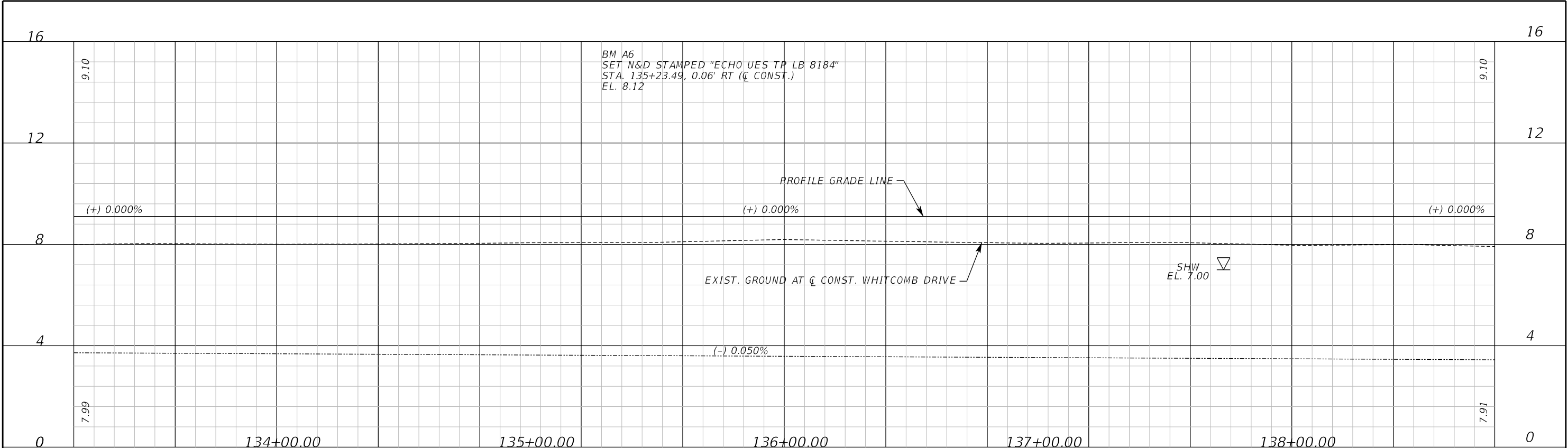




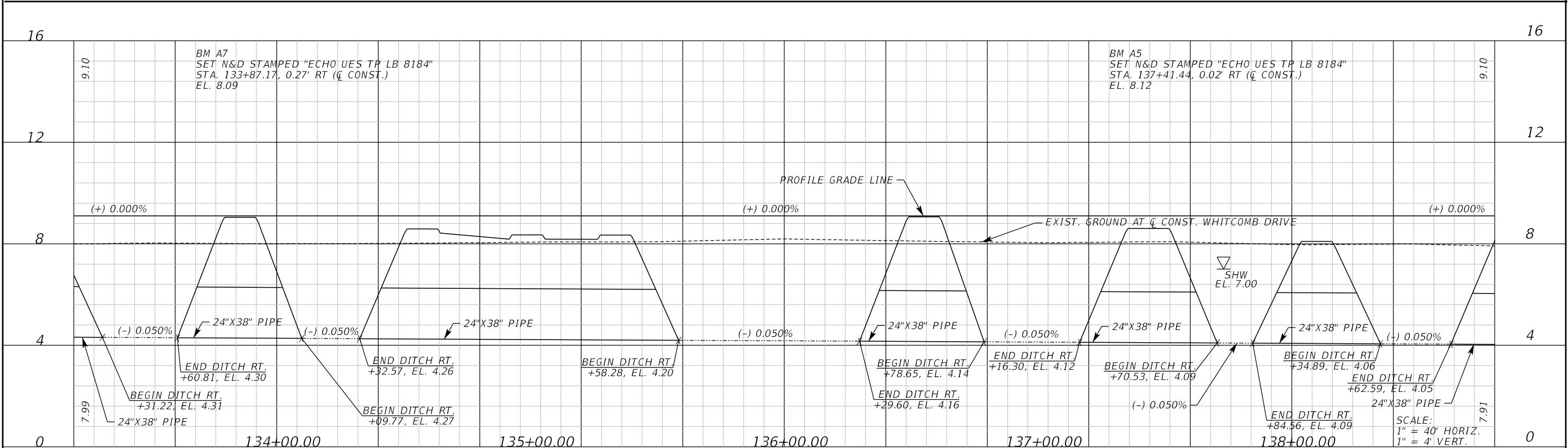
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REVISIONS		Inwood consulting engineers Catherine L. Spiess, PE PE No. 62501 Certificate of Authorization No. 7074 3000 Dovera Drive, Suite 200 Oviedo, Florida 32765 p 407.971.8850 SEMINOLE COUNTY ENGINEERING DIVISION ROAD NO. WHITCOMB DRIVE COUNTY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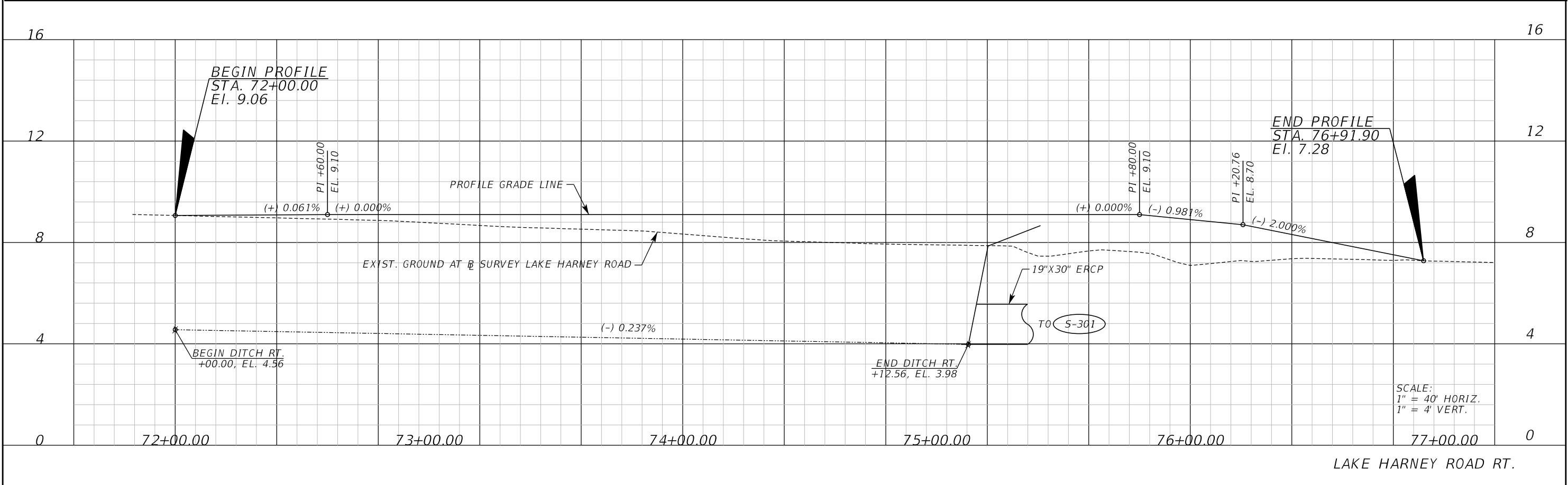
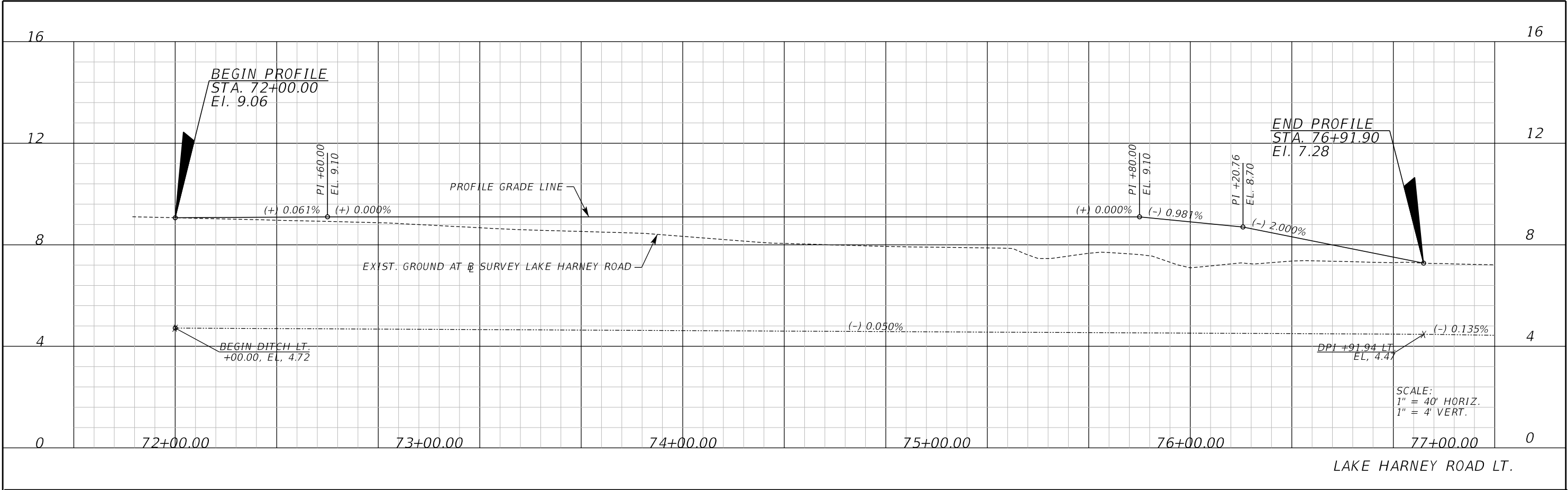


WHITCOMB DRIVE LT.

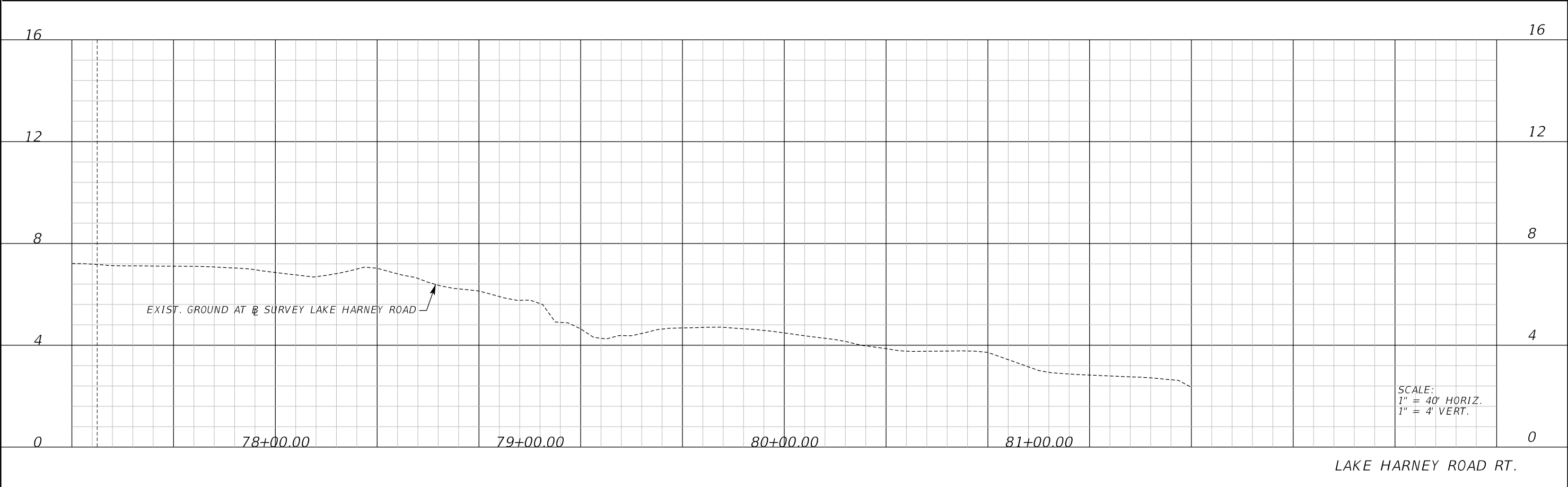
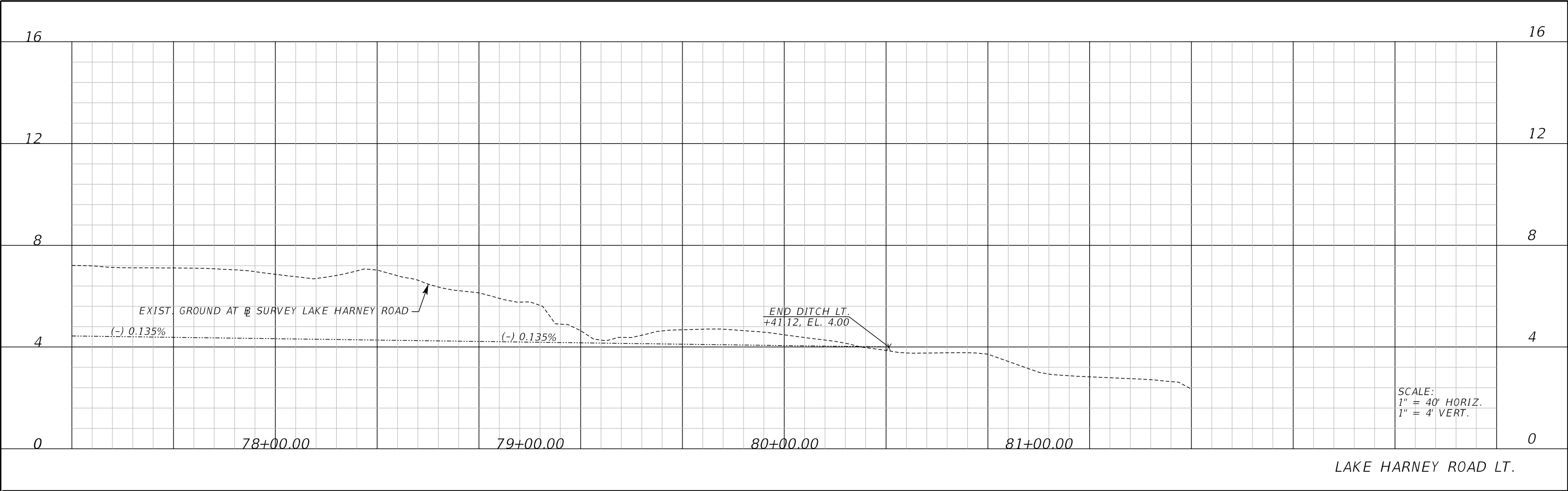


WHITCOMB DRIVE RT.

REVISIONS		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		PROFILE SHEET WHITCOMB DRIVE	SHEET NO. 35
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY CIP NO.	
				WHITCOMB DRIVE	02107099	



REVISIONS		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		PROFILE SHEET LAKE HARNEY RD.	SHEET NO. 38
DATE	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
			WHITCOMB DRIVE	02107099		



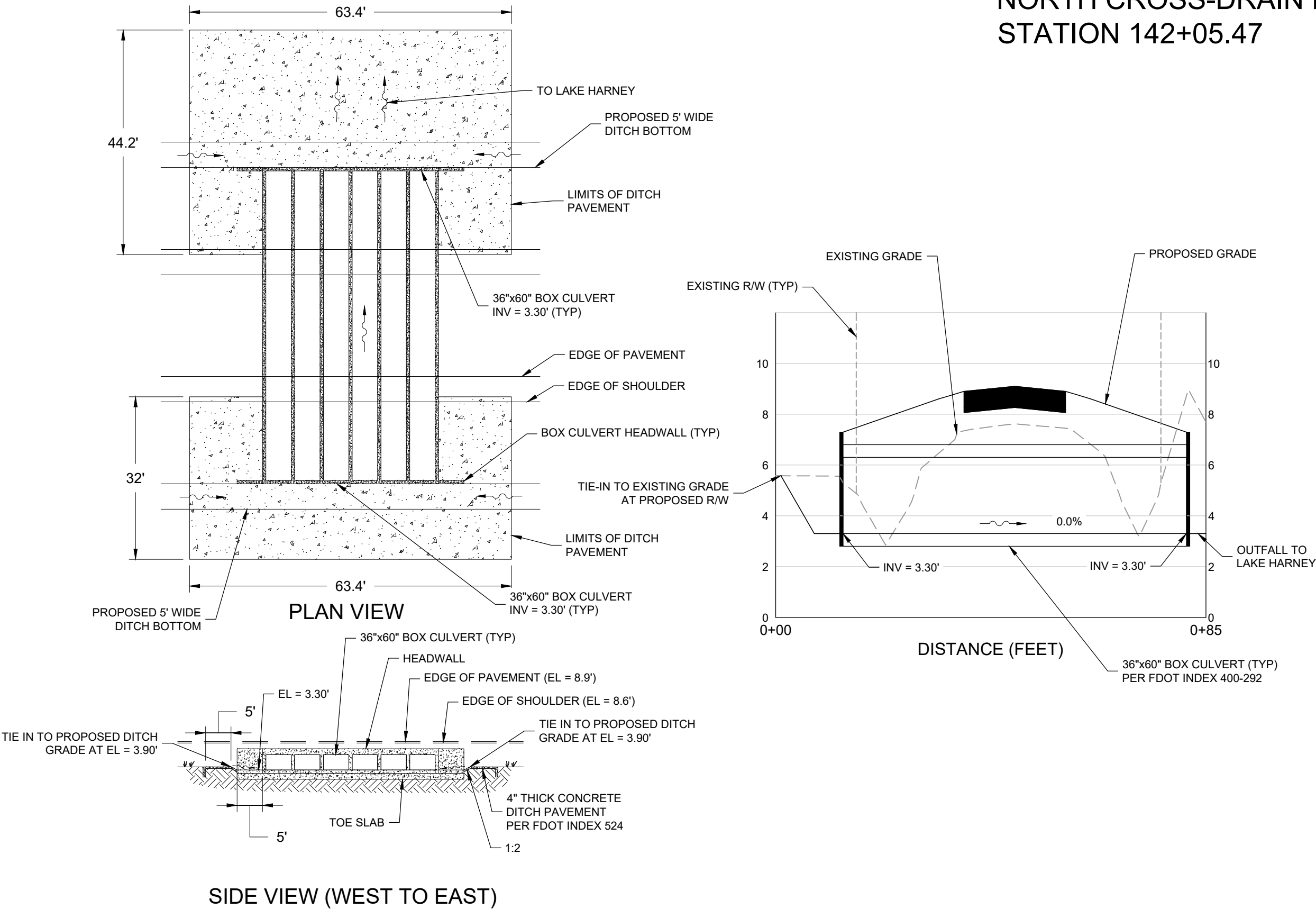
REVISIONS		Inwood consulting engineers Catherine L. Spiess, PE PE No. 62501 Certificate of Authorization No. 7074 3000 Dovera Drive, Suite 200 Oviedo, Florida 32765 p 407.971.8850 <tr><th>DATE</th><th>DESCRIPTION</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td></td><td></td><td></td><td></td></tr>	DATE	DESCRIPTION	DATE	DESCRIPTION				
DATE	DESCRIPTION	DATE	DESCRIPTION							

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

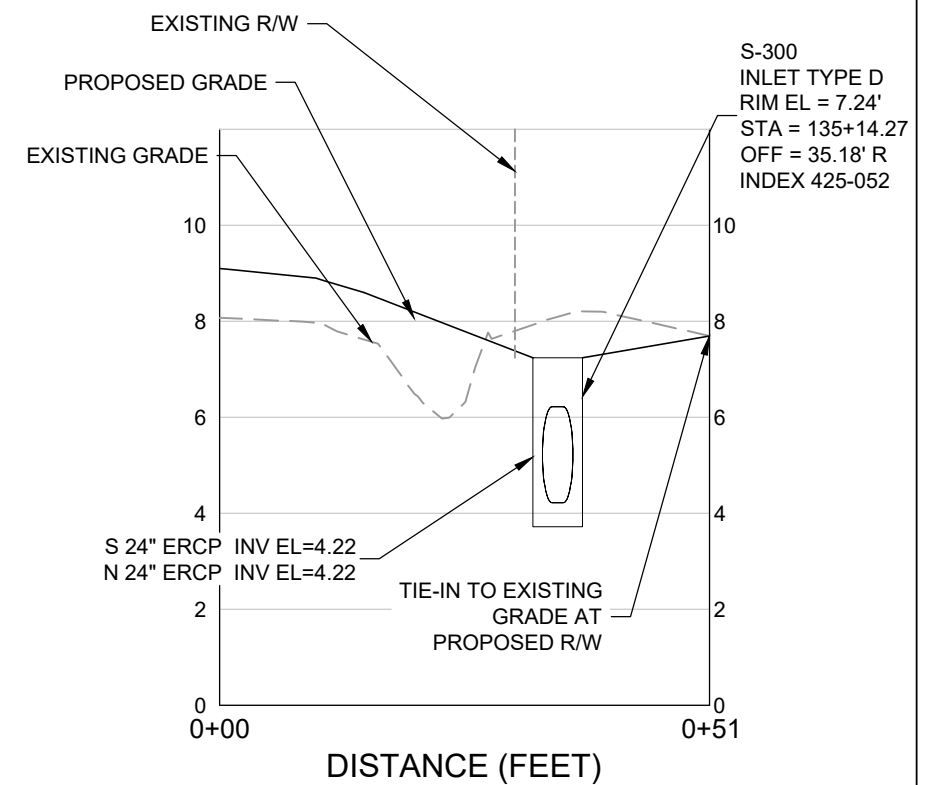
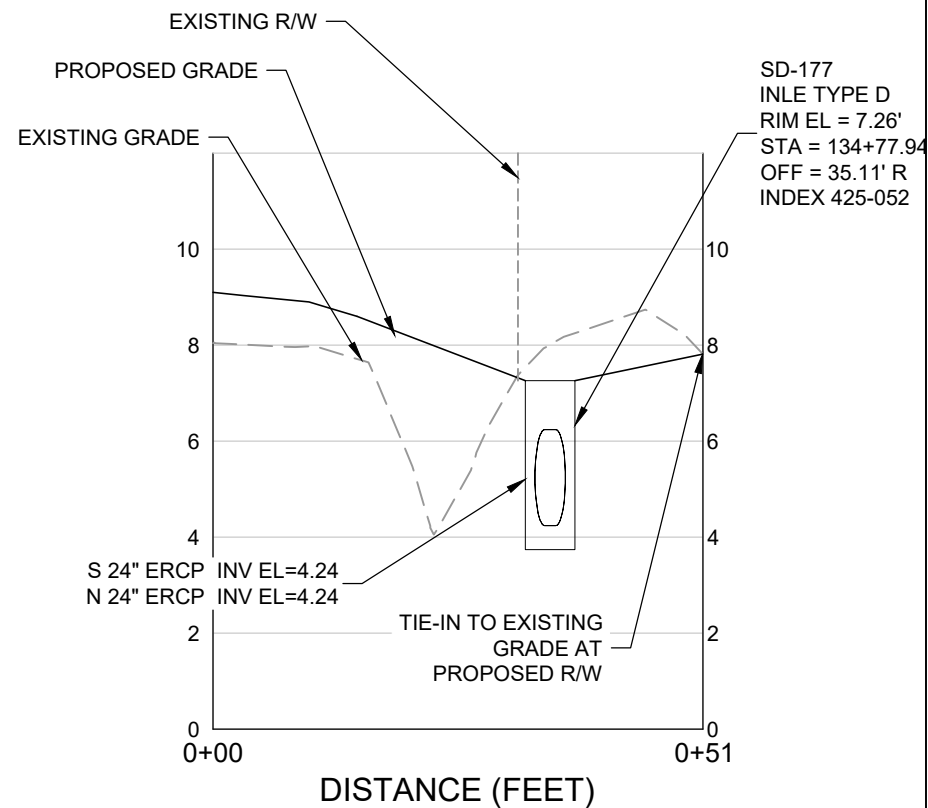
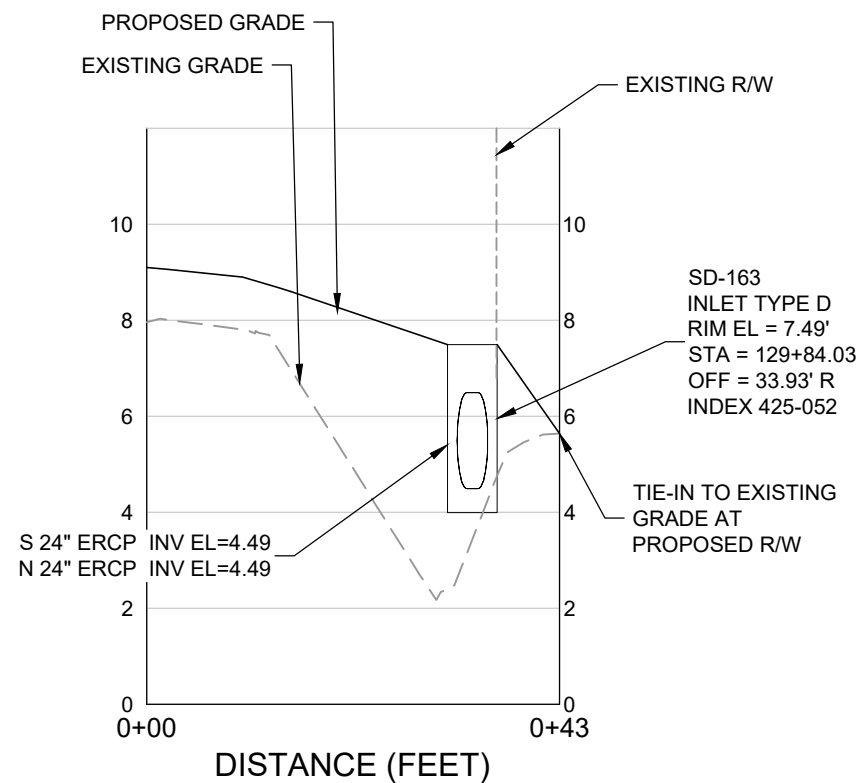
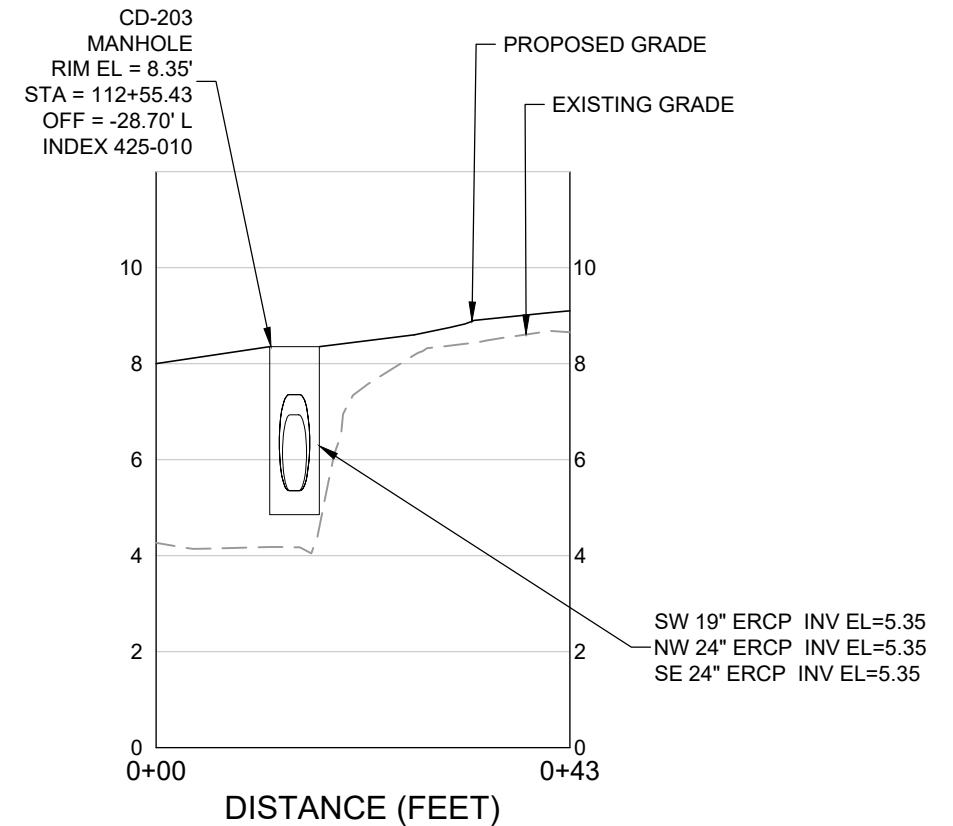
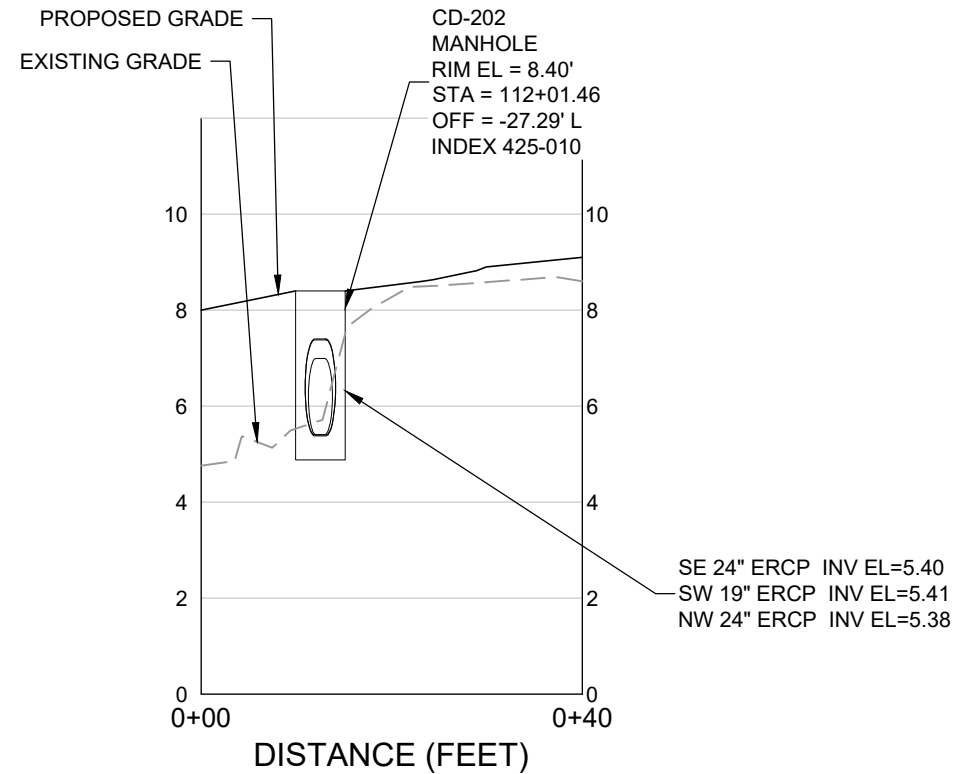
PROFILE SHEET	
LAKE HARNEY RD.	

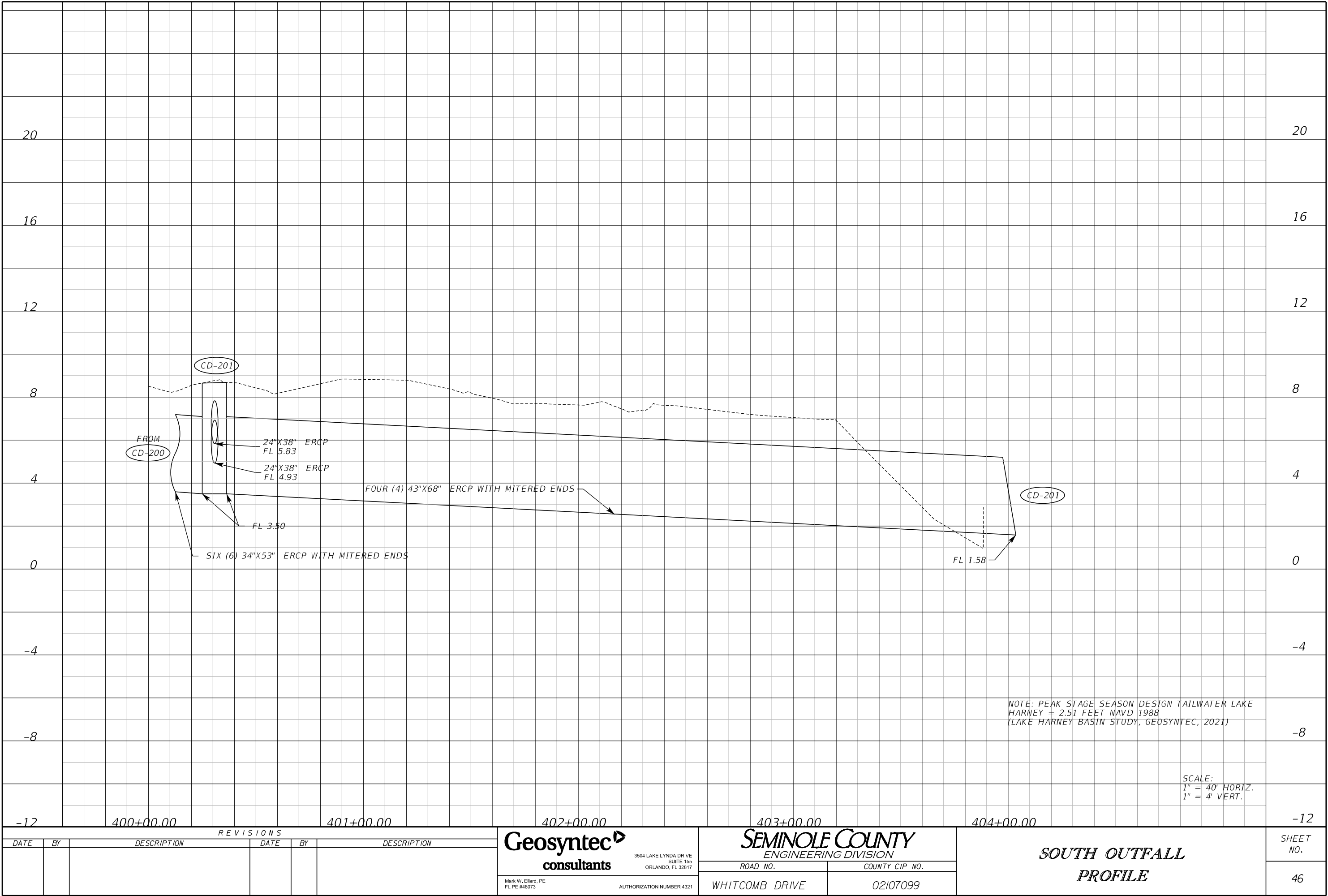
SHEET NO.
39

NORTH CROSS-DRAIN DETAILS
STATION 142+05.47

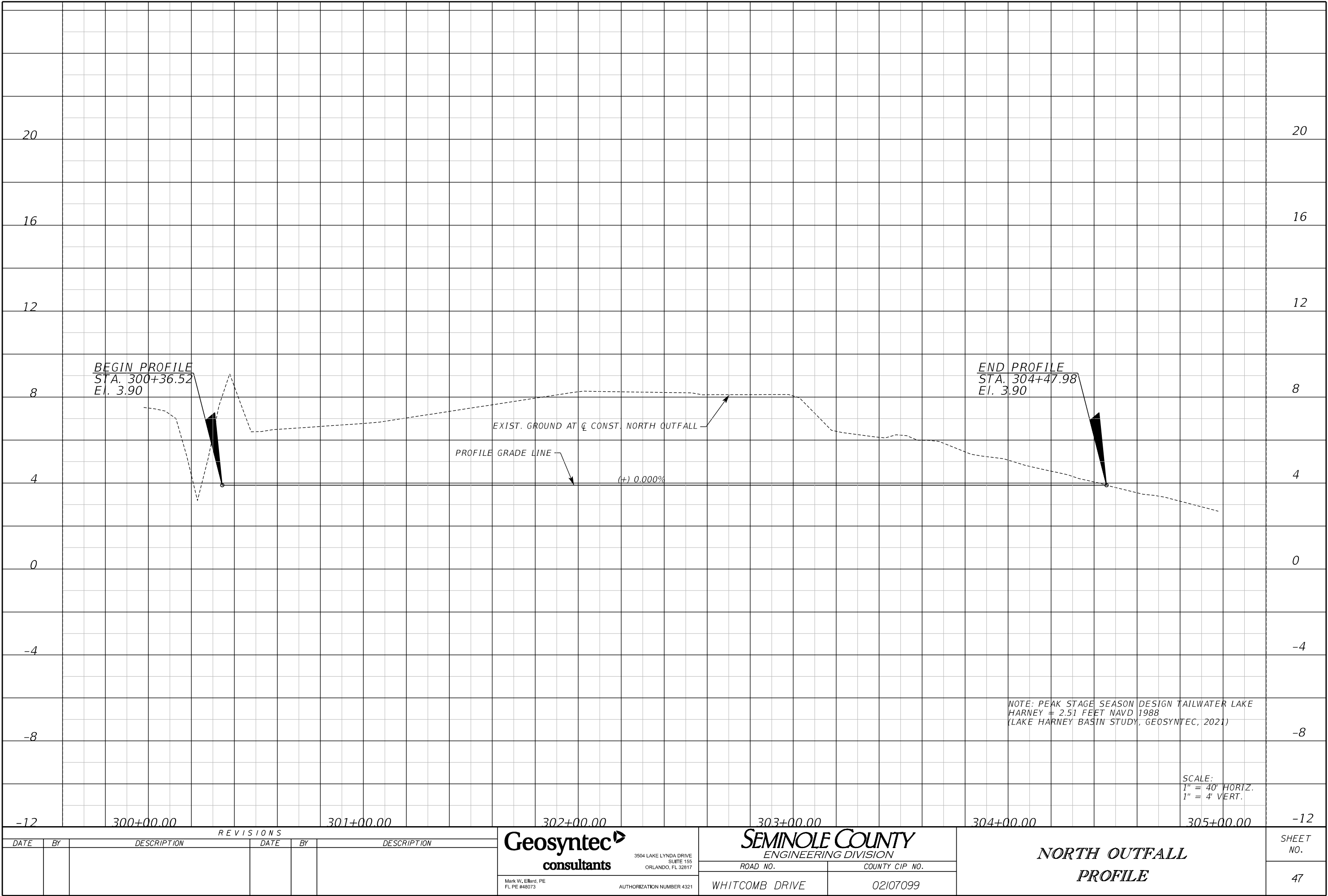


REVISIONS						Geosyntec [®] consultants	SEMINOLE COUNTY ENGINEERING DIVISION	ROAD NO.	COUNTY CIP NO.	DRAINAGE STRUCTURE DETAILS (3)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
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