

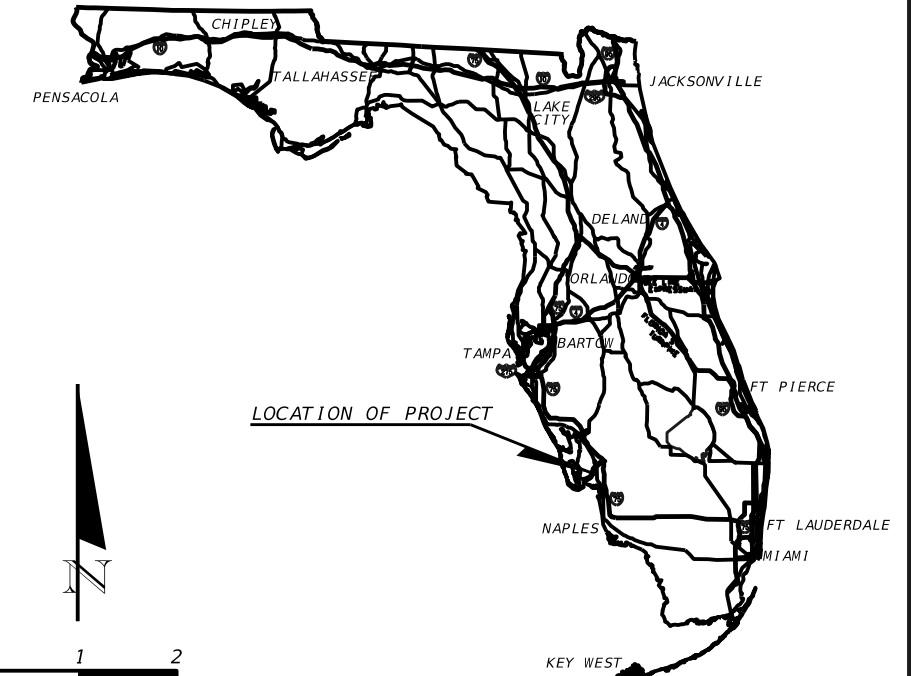
COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- SIGNALIZATION PLANS
- UTILITY PLANS

LEE COUNTY  
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

WINKLER ROAD SIDEWALK  
PROJECT NO. 6974



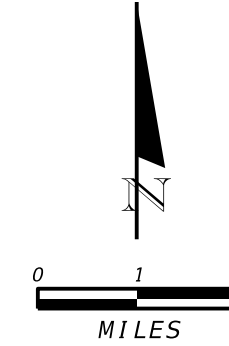
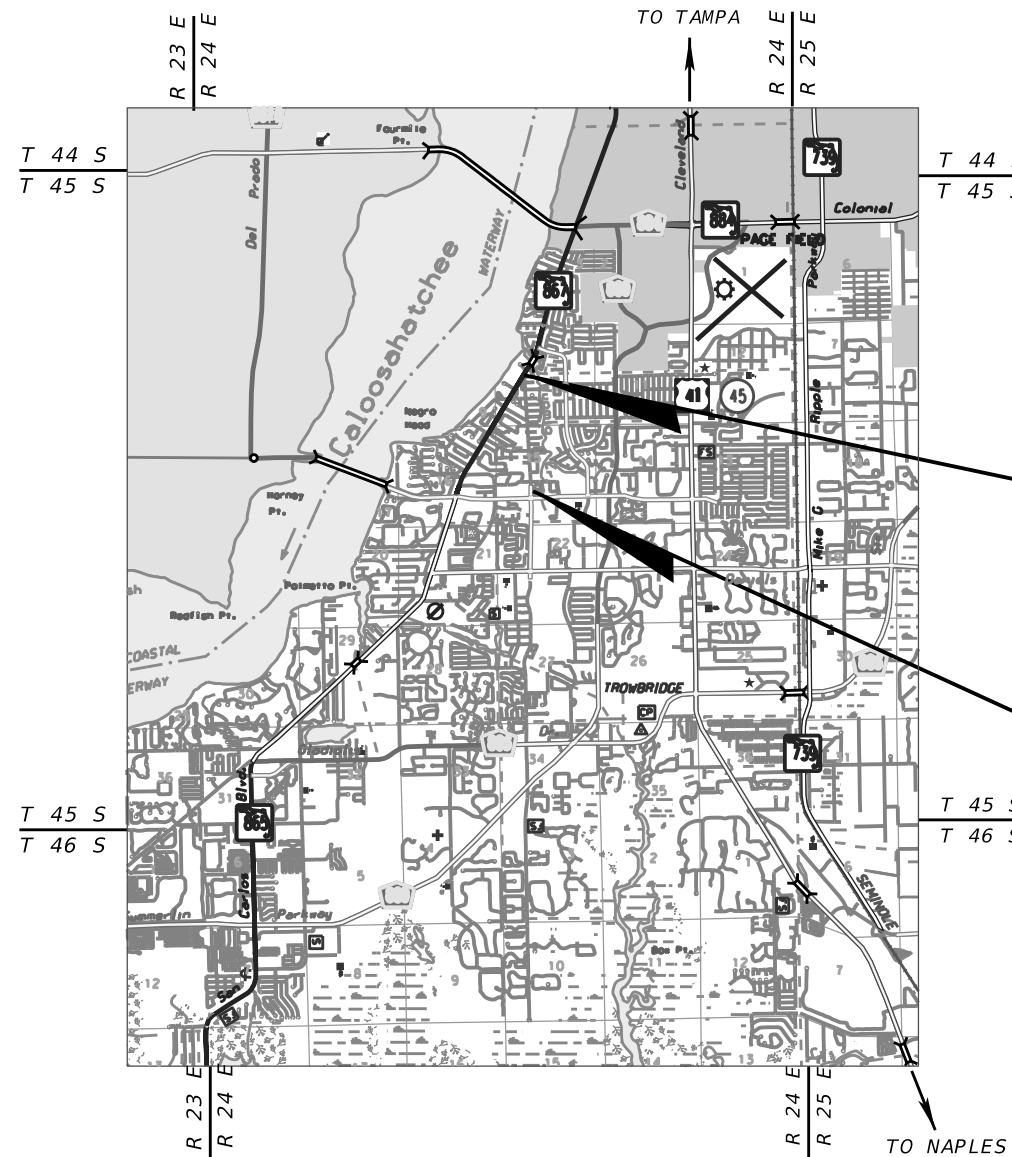
INDEX OF ROADWAY PLANS

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THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (DATED 2017) AND DESIGN STANDARDS BOOKLET (DATED 2017-18).

FOR DESIGN STANDARDS REVISIONS, CLICK ON "DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:  
<http://www.dot.state.fl.us/rddesign/>



END PROJECT  
STA. 205+77.35

BEGIN PROJECT  
STA. 140+02.80

100% PLANS

ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

ADRIENNE A. WISDOM, P.E. #78492  
ATKINS  
1514 BROADWAY, SUITE 202  
FT. MYERS, FL 33901  
(239) 334-7275

PLANS PREPARED BY:

**ATKINS**

1514 BROADWAY, SUITE 201  
FT. MYERS, FL 33901  
(239) 334-7275  
CONSULTANT VENDOR NO. F-590-896-138-001  
FBPR CERTIFICATE OF AUTHORIZATION NO. : 24

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

ROADWAY PLANS  
ENGINEER OF RECORD: ADRIENNE A. WISDOM, P.E.

P.E. NO.: 78492

PROJECT LENGTH IS BASED ON  $\frac{1}{4}$  OF SURVEY

LENGTH OF PROJECT		
	LINEAR FEET	MILES
SIDEWALK	6,590	1.25
NET LENGTH OF PROJECT	6,590	1.25
GROSS LENGTH OF PROJECT	6,590	1.25

KEY SHEET REVISIONS	
DATE	DESCRIPTION


QUALITY CONTROL TRACKING STAMP		
QC DOCUMENT:		
QC REVIEW ACTIVITY		
1. READY FOR REVIEW	LTP: AAW	Date: 11/14/17
2. QC REVIEW	REV:	Date:
<ul style="list-style-type: none"> <li><span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> (Yellow = correct/verified)</li> <li><span style="background-color: red; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> (Red = correction)</li> </ul>		
3. RESOLVE COMMENTS	LTP:	Date:
<ul style="list-style-type: none"> <li><span style="color: blue;">✓</span> (Blue check = accept)</li> <li><span style="color: red;">✗</span> (Red "X" = Reject)</li> <li><span style="color: pink;">→</span> (Pink arrow = address in future submittal)</li> </ul>		
4. CHANGES MADE	ORIG:	Date:
<ul style="list-style-type: none"> <li><span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> (yellow over red comment)</li> </ul>		
5. VERIFIED	REV:	Date:
<ul style="list-style-type: none"> <li><span style="background-color: green; border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> (Green circle over red comment)</li> </ul>		
LTP = Lead Technical Professional, REV = Independent Reviewer, ORIG = Originator		

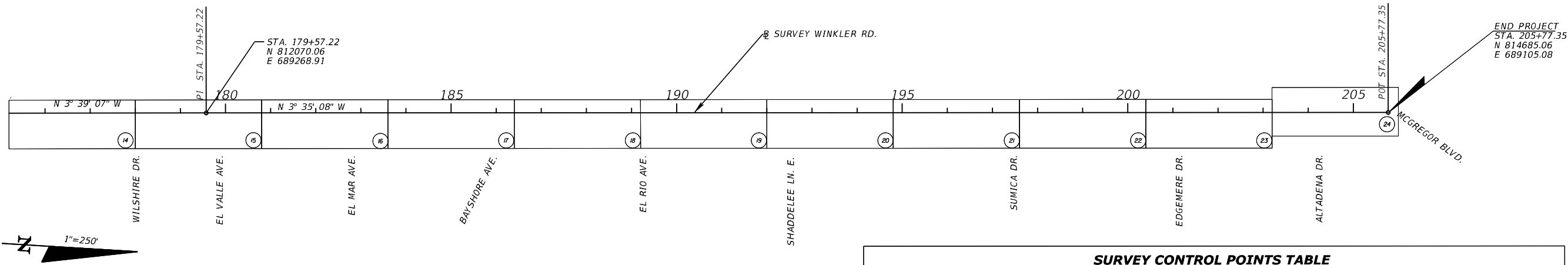
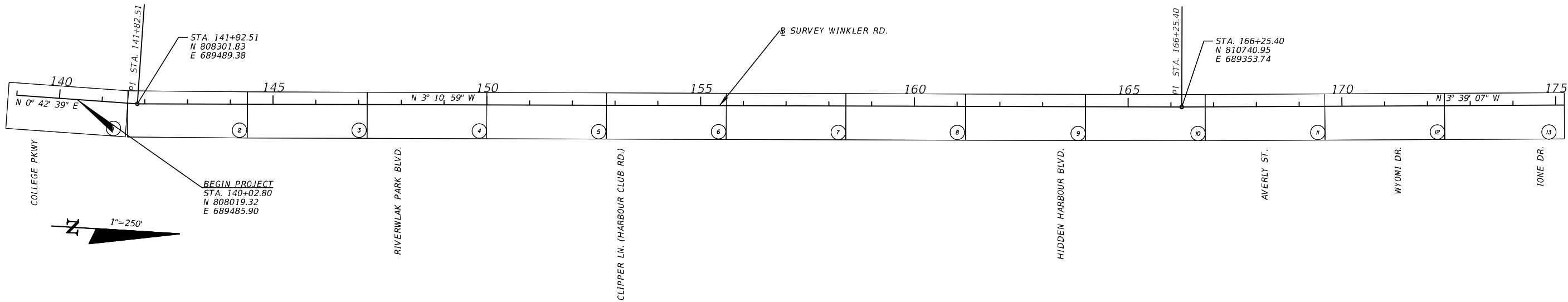
SHEET NO.

1

## SUMMARY OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	5428
104-12	STAKED TURBIDITY BARRIER	LF	75
104-15	SOIL TRACKING PREVENTION DEVICE	EA	1
104-18	INLET PROTECTION SYSTEM	EA	31
110-1-1	CLEARING AND GRUBBING	AC	2.5
110-4	REMOVAL OF EXIST. CONCRETE PAVEMENT	SY	358
110-7-1	MAILBOX, RELOCATE SINGLE	EA	5
120-1	REGULAR EXCAVATION	CY	409
120-6	EMBANKMENT	CY	593
400-1-2	CONC CLASS I, ENDWALLS	CY	1.56
425-1-521	INLETS, DITCH BOTTOM TYPE C, <10'	EA	5
425-1-525	INLETS, DITCH BOTTOM, TYPE C, PARTIAL	EA	2
425-1-531	INLETS, DT BOT, TYPE C MOD, <10'	EA	10
425-6	VALVE BOXES, ADJUST	EA	6
430-174-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" SD	LF	680
430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" SD	LF	385
430-174-130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30" SD	LF	13
430-984-125	MITERED END SECTION, OPT/ROUND, 18" SD	EA	2
430-984-625	MITERED END SECTION, OPT/ELLIP 18" SD	EA	2
515-1-2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	121
520-1-10	CONCRETE CURB AND GUTTER - TYPE F	LF	94
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	3291.2
527-2	DETECTABLE WARNINGS	SF	547
570-1-2	PERFORMANCE TURF, SOD	SY	5964
700-1-50	SINGLE POST SIGN, RELOCATE	AS	8
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	1484
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	183

REVISIONS			<b>ATKINS</b> <small>1514 Broadway, Suite 201, Ft. Myers, FL 33901-3015                  FBPE Certificate of Authorization No. 24                  Adrienne A. Wisdom, P.E. 78492</small>	LEE COUNTY DEPARTMENT OF TRANSPORTATION			<b>SUMMARY OF PAY ITEMS</b>	SHEET NO.
DATE	DESCRIPTION			ROAD	COUNTY	COUNTY PROJECT NO.		2
		WINKLER RD.	LEE	6974				



SURVEY CONTROL POINTS TABLE						
POINT NO.	ALIGNMENT STATION	ALIGNMENT STATION OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	139+91.14	6.43 RT	808110.3920	689493.4380	6.95	SET 5/8" IR&C "ATKINS LB24"
101	146+67.88	22.80 LT	808785.1850	689439.6650	6.15	SET 5/8" IR&C "ATKINS LB24"
102	153+25.77	14.73 LT	809442.5020	689411.1980	5.94	SET PK&W "ATKINS LB24"
103	161+58.90	15.48 LT	810274.3120	689364.1900	5.32	SET PK&W "ATKINS LB24"
104	171+1.02	15.89 LT	811214.5960	689307.5930	4.82	SET PK&W "ATKINS LB24"
105	181+24.81	13.39 LT	812236.4850	689245.0720	4.50	SET PK&W "ATKINS LB24"
106	191+47.91	14.25 LT	813257.5370	689180.2330	5.14	SET PK&W "ATKINS LB24"
107	201+14.37	20.69 LT	814221.7020	689113.3630	5.48	SET PK&W "ATKINS LB24"
108	204+61.49	22.51 LT	814568.0300	689089.8370	4.35	ALUM. DISC L.C.P.W. S.C.P.

HORIZONTAL DATUM IN PLANS IS THE NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD 83/11).  
 THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

(XX) PLAN-PROFILE SHEET NUMBERS

REVISIONS	
DATE	DESCRIPTION

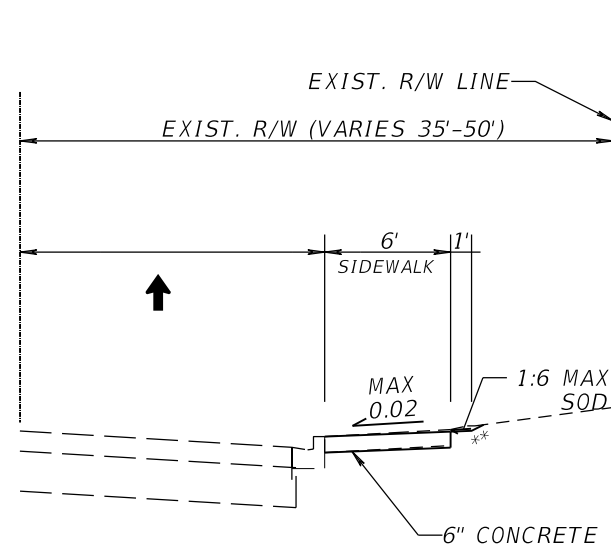


**ATKINS**  
 1514 Broadway, Suite 201, Ft. Myers, FL 33901-3015  
 FBPE Certificate of Authorization No. 24  
 Adrienne A. Wisdom, P.E. 78492

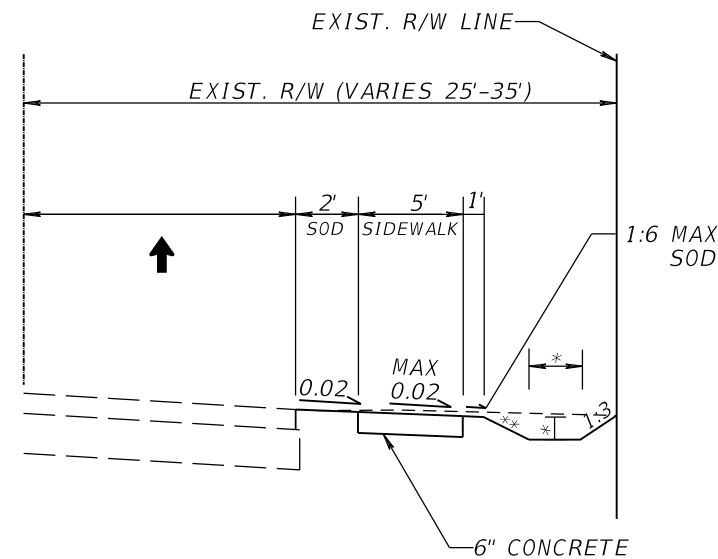
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**PROJECT LAYOUT**

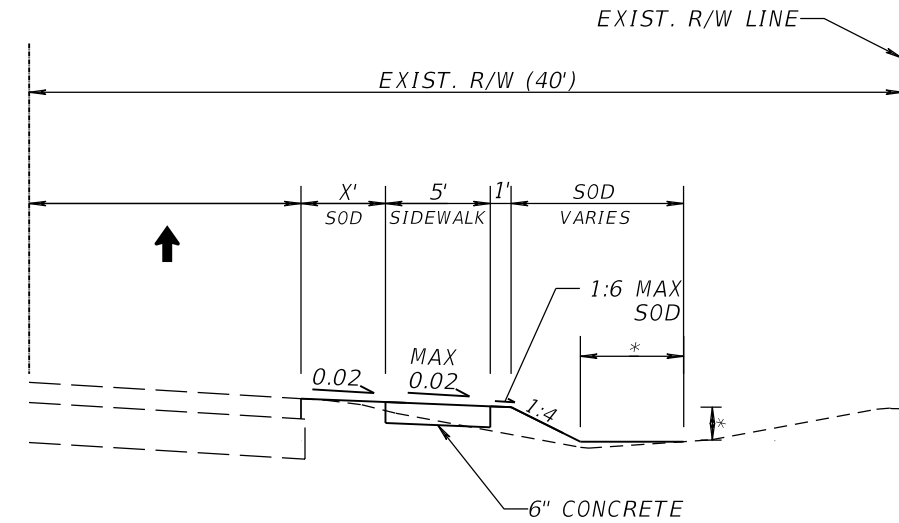
SHEET NO.  
**3**



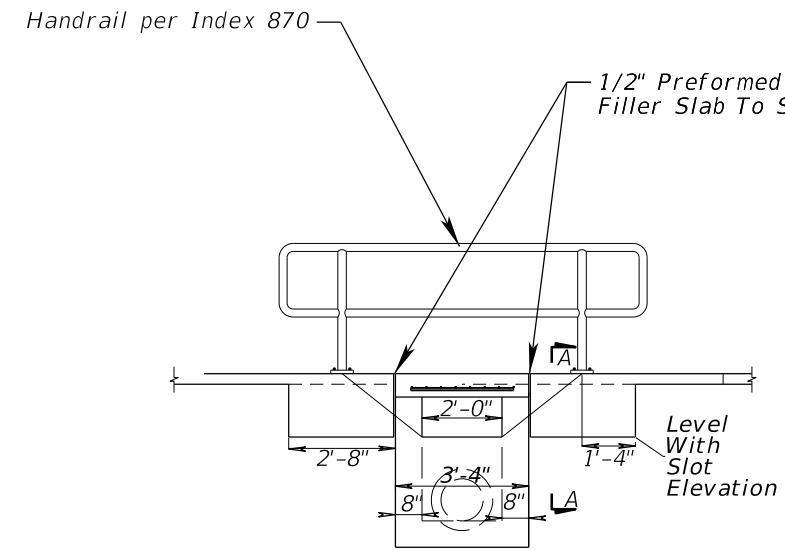
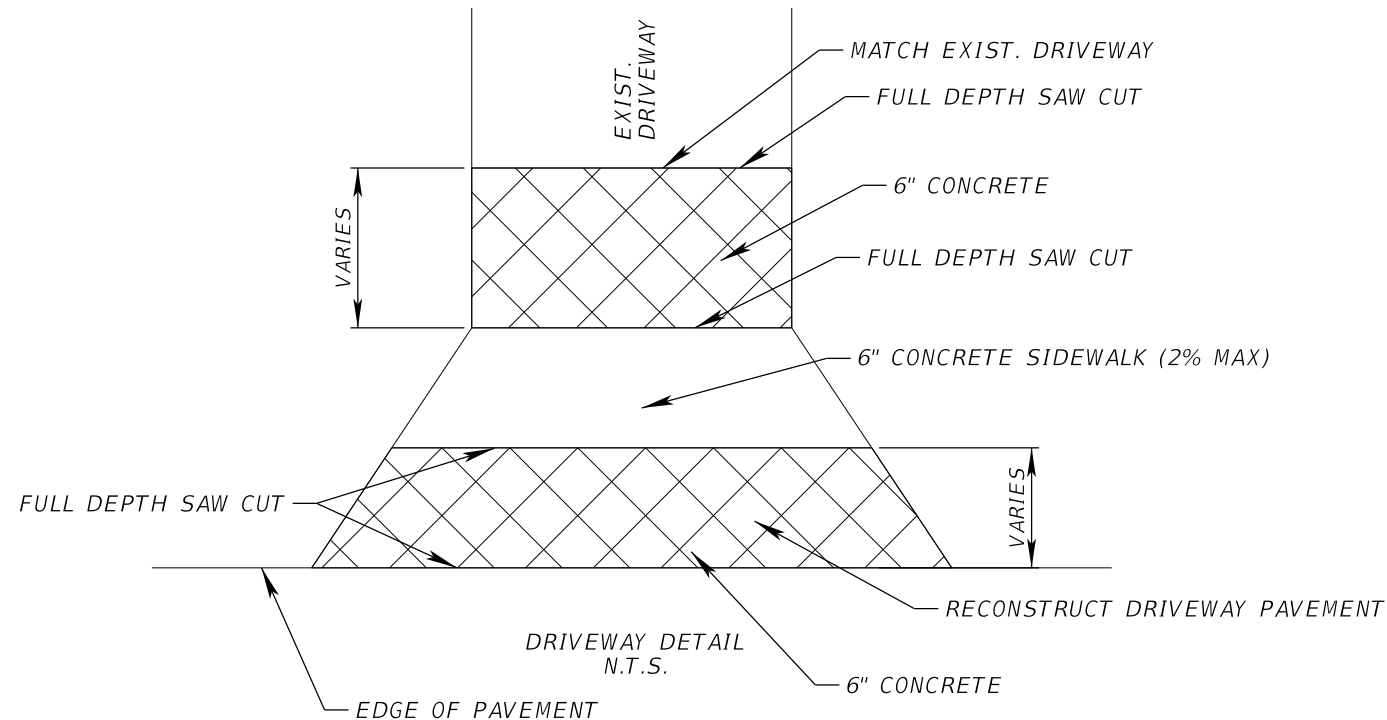
TYPICAL SECTION (NTS)  
WINKLER RD.  
IMPROVEMENTS TO EXISTING SIDEWALK  
STA. 140+02.80 TO STA. 145+22.35  
STA. 147+28.80 TO STA. 147+64.29



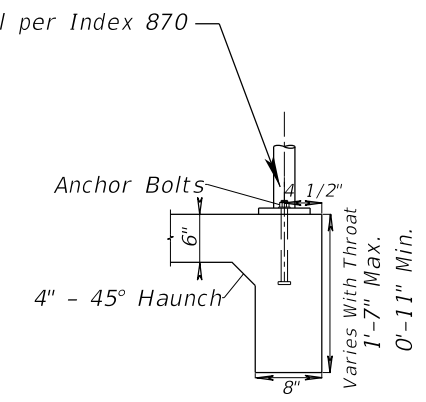
TYPICAL SECTION (N.T.S)  
WINKLER RD.  
STA. 153+50.00 TO STA. 166+00.00  
STA. 180+00.00 TO STA. 205+70.39



TYPICAL SECTION (NTS)  
WINKLER RD.  
STA. 145+22.35 TO STA. 145+74.86, X=2.5'  
STA. 152+68.40 TO STA. 153+50.00, X=VARIES  
STA. 166+50.00 TO STA. 168+00.00, X=4'  
STA. 168+50.00 TO STA. 171+00.00, X=3'  
STA. 171+00.00 TO STA. 180+00.00, X=4'




TYPICAL HANDRAIL PLACEMENT AT  
DITCH BOTTOM INLET TYPE C (MOD.)  
(SEE PLAN SHEETS AND DRAINAGE SECTIONS FOR LOCATIONS)



SECTION AA

\* DITCH WIDTH AND DEPTH VARY. SEE CROSS SECTIONS FOR DETAILS.  
\*\* FRONT SLOPE VARIES 1:3 - 1:4, SEE CROSS SECTIONS

REVISIONS			<b>ATKINS</b> 1514 Broadway, Suite 201, Ft. Myers, FL 33901-3015 FBPE Certificate of Authorization No. 24 Adrienne A. Wisdom, P.E. 78492	LEE COUNTY DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS</b>	SHEET NO. <b>4</b>
DATE	DESCRIPTION			ROAD	COUNTY	COUNTY PROJECT NO.		
				WINKLER RD.	LEE	6974		

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES											
LOCATION	SIDE	SEDIMENT BARRIER		STAKED TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.		0104 10 3		0104 12		0104 15		0104 18			
		LF		LF		EA		EA			
	P	F	P	F	P	F	P	F			
140+00.00 TO 145+84.70	RT	580.7									
147+25.50 TO 147+56.60	RT	35.0									
148+18.80 TO 152+95.50	RT	479.5									
153+29.70 TO 163+21.30	RT	989.2									
163+52.75 TO 165+95.60	RT	245.8									
166+45.60 TO 166+94.80	RT	50.0									
167+07.80 TO 167+95.80	RT	88.5									
168+32.60 TO 169+87.50	RT	115.3									
169+57.60 TO 169+92.40	RT	34.8									
170+03.00 TO 171+04.90	RT	102.0									
171+52.60 TO 172+66.00	RT	113.4									
172+81.10 TO 173+20.00	RT	39.4									
173+40.00 TO 174+41.60	RT	102.1									
174+78.40 TO 176+48.30	RT	170.3									
176+59.00 TO 177+81.20	RT	122.4									
178+20.00 TO 179+61.90	RT	142.6									
180+14.90 TO 182+40.00	RT	227.4									
183+10.00 TO 183+85.90	RT	86.1									
184+25.00 TO 185+80.00	RT	150.7									
186+55.30 TO 189+00.00	RT	243.4									
189+60.00 TO 190+52.50	RT	101.9									
189+78.00 TO 191+80.00	RT	105.2									
191+95.20 TO 192+35.20	RT	40.4									
192+70.00 TO 195+67.40	RT	294.5									
195+79.30 TO 197+13.20	RT	133.8									
197+45.00 TO 198+86.00	RT	133.0									
199+05.20 TO 199+80.00	RT	75.5									
200+11.90 TO 200+89.30	RT	77.4									
201+26.40 TO 200+60.00	RT	34.0									
201+88.40 TO 202+60.00	RT	72.0									
202+71.90 TO 202+92.60	RT	20.7									
203+00.00 TO 204+07.60	RT	107.9									
204+36.40 TO 204+87.80	RT	52.0									
205+13.60 TO 205+71.00	RT	60.9									
165+92.70 TO 166+35.50	RT			75.0							
140+02.80 TO 205+77.35						1					
142+41.72	RT							1			EX STRUCT
147+27.05	RT							1			EX STRUCT
148+40.18	RT							1			EX STRUCT
149+58.64	RT							1			EX STRUCT
152+77.35	RT							1			S-1
153+59.00	RT							1			S-2
163+00.01	RT							1			S-3
SUB-TOTAL		5427.8		75.0		1		7			
TOTAL		5428		75		1		31			

**SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES**

LOCATION  STA. TO STA.	SIDE	SEDIMENT BARRIER		STAKED TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
		0104 10 3		0104 12		0104 15		0104 18			
		LF		LF		EA		EA			
		P	F	P	F	P	F	P	F		
163+84.65	RT							1			S-4
165+80.00	RT							1			S-5
166+04.13	RT							1			S-6
166+81.36	RT							1			EX STRUCT
168+55.27	RT							1			EX STRUCT
172+05.25	RT							1			EX STRUCT
174+27.26	RT							1			EX STRUCT
174+97.85	RT							1			EX STRUCT
181+50.00	RT							1			S-7
182+40.63	RT							1			S-8
183+09.25	RT							1			S-9
184+50.00	RT							1			S-10
185+50.00	RT							1			S-11
188+86.62	RT							1			S-12
189+61.97	RT							1			S-13
191+00.00	RT							1			S-14
195+50.00	RT							1			S-14A
196+70.75	RT							1			S-15
198+50.03	RT							1			S-16
199+36.89	RT							1			S-17
200+50.00	RT							1			S-18
202+30.00	RT							1			S-19
204+05.98	RT							1			S-20
204+37.56	RT							1			S-21
SUB-TOTAL								24.0			

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120-1	EXCAVATION	409.07			
120-6	EMBANKMENT	593.10			

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS																					
LOCATION		SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		BUS BAY/BOARDING PAD - CONCRETE		BUS SHELTER PAD - CONCRETE		PATTERNED PAVT. NON-VEHICULAR		PAVERS, ARCH. SIDEWALK		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.						0522 1	0522 2	0522 3	0522 4	0523 2		0526 1 2		0527 2							
						SY	SY	SY	SY	SY	SY	SY	SY	SY	SY	SY					
		P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F				
140+02.80	145+74.86	RT		572.06	5.0			381.4													
147+28.80	147+59.45	RT		30.7	5.0			17.1											10.6		
148+16.85	148+36.53	RT		19.7	4.5			8.8											14.2		
152+68.40	152+96.33	RT		27.9	5.0			15.5											9.4		
153+29.02	163+27.06	RT		998.0	5.0			554.4											20.8		
163+51.38	167+98.46	RT		447.1	5.0			248.4											26.0		
168+30.36	171+08.24	RT		277.9	5.0			154.4											31.3		
171+49.65	174+44.28	RT		294.6	5.0			163.7											34.4		
174+77.50	177+83.74	RT		306.2	5.0			170.1											28.4		
178+17.05	179+65.03	RT		148.0	5.0			82.2											29.9		
179+97.21	182+60.72	RT		263.5	5.0			146.4											26.1		
182+92.12	185+89.45	RT		297.3	5.0			165.2											36.1		
186+51.93	189+07.00	RT		255.1	5.0			141.7											32.1		
189+43.22	192+39.25	RT		296.0	5.0			164.4											32.4		
192+68.68	197+16.37	RT		447.7	5.0			248.7											35.5		
197+50.47	200+93.12	RT		342.7	5.0			190.4											32.4		
201+20.84	204+10.22	RT		289.4	5.0			160.8											41.4		
204+34.86	204+88.23	RT		53.4	5.0			29.7											28.5		
204+65.96	204+78.22	LT		8.6	5.0			4.8											21.2		
205+11.61	205+70.39	RT		58.8	5.0			32.7											46.7		
205+68.30	205+74.66	LT		6.4	5.0			3.6											10.0		
SUB-TOTAL								3084.4											547.2		
TOTAL								3084											547		

SUMMARY OF RAILING																	
LOCATION		SIDE	METAL TRAFFIC RAILING		PIPE HANDRAIL - GUIDERAIL		PED/BICYCLE RAILING		HANDRAIL		ALUMINUM BULLET RAILING		CONCRETE TRAFFIC RAILING - WITH JUNCTION SLAB		DESIGN NOTES	CONSTRUCTION REMARKS	
STA. TO STA.			0460 71 A	0515 1 A	0515 2ABB	0515 3 A	0515 4 A	0521 8 AA									
			LF	LF	LF	LF	LF	LF									
		P	F	P	F	P	F	P	F	P	F	P	F				
166+02.95	166+36.73	RT			34.0												
181+45.66	181+54.32	RT			8.7												
182+36.02	182+44.68	RT			8.7												
183+05.02	183+13.68	RT			8.7												
184+44.73	184+53.39	RT			8.7												
185+45.69	185+54.35	RT			8.7												
188+82.29	188+90.95	RT			8.7												
189+57.64	189+66.30	RT			8.7												
195+45.67	195+54.33	RT			8.7												
196+66.42	196+75.08	RT			8.7												
198+32.50	199+41.16	RT			8.7												
SUB-TOTAL								121									
TOTAL								121									

SUMMARY OF PERFORMANCE TURF																
LOCATION		SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF		PERFORMANCE TURF (SOD)		PLASTIC EROSION MAT		PREPARED SOIL LAYER		DESIGN NOTES	CONSTRUCTION REMARKS	
STA. TO STA.						0570	1 1	0570	1 2	0571	1 AB	0162	1 AB			
						SY		SY		SY		SY				
		P	F	P	F	P	F	P	F							
140+02.80	145+75.15	RT		572.1	1.0			63.6								
147+28.97	147+63.00	RT		34.0	1.5			5.7								
148+16.85	148+36.53	RT		19.7	1.5			3.3								
152+68.41	152+98.61	RT		30.2	2.0			6.7								
153+27.85	163+27.24	RT		999.4	20.0			2220.9								
163+51.19	166+94.95	RT		343.8	15.7			599.7								
167+07.23	167+98.46	RT		91.2	5.2			52.5								
168+30.36	169+47.47	RT		117.1	5.2			67.1								
169+57.62	169+92.35	RT		34.7	5.2			19.9								
170+02.86	171+08.24	RT		105.4	7.2			83.7								
171+49.65	172+66.03	RT		116.4	7.8			100.2								
172+80.84	173+22.41	RT		41.6	5.4			25.1								
173+40.12	174+44.28	RT		104.2	17.2			199.1								
174+77.50	176+47.86	RT		170.4	5.5			103.9								
176+59.75	177+83.74	RT		124.0	6.3			86.8								
178+17.05	179+65.03	RT		148.0	5.4			88.0								
179+97.21	182+60.72	RT		263.5	7.7			240.0								
182+90.46	183+92.25	RT		101.8	6.9			121.4								
184+19.31	185+91.38	RT		172.1	6.9			175.1								
186+51.93	189+09.16	RT		257.2	7.7			220.1								
189+40.68	190+62.55	RT		121.9	8.3			120.7								
190+48.06	191+79.15	RT		101.1	8.3			93.0								
191+95.23	192+39.25	RT		44.0	6.1			29.9								
192+68.13	195+67.48	RT		299.4	8.9			295.4								
195+80.06	197+16.37	RT		136.3	8.6			129.8								
197+50.47	198+89.49	RT		139.0	8.7			133.6								
199+01.90	199+83.60	RT		81.7	8.6			77.7								
200+04.79	200+90.12	RT		85.3	11.0			104.3								
201+20.84	201+63.69	RT		42.9	3.9			18.5								
201+84.45	202+60.00	RT		75.6	10.1			84.4								
202+70.99	202+89.52	RT		17.5	10.1			19.6								
203+01.88	204+10.22	RT		108.3	11.3			135.5								
204+34.89	204+88.20	RT		53.3	7.3			43.2								
205+11.61	205+70.39	RT						79.6								
204+65.96	204+76.08	LT						3.8								
205+68.30	205+74.66	LT						1.9								
SUB-TOTAL:								5853.6								
TOTAL:								5964								

SUMMARY OF PERMANENT DRIVEWAYS								
LOCATION	SIDE	AREA ID	MATERIAL				DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)		ASPHALT (TN)			
			0522	2	0334	1 AA		
STA. @ C OF DRIVEWAY			P	F	P	F		
167+00.00	RT			12.4				
169+52.95	RT			7.3				
169+98.75	RT			10.6				
172+74.14	RT			14.3				
173+35.34	RT			21.8				
176+52.34	RT			10.1				
184+05.34	RT			7.9				
190+69.86	RT			14.9				
191+86.58	RT			15.1				
195+75.46	RT			12.4				
198+95.40	RT			13.0				
199+93.77	RT			15.7				
201+74.54	RT			21.9				
202+65.94	RT			15.5				
202+95.52	RT			14.3				
SUB-TOTAL:				207.2				

REVISIONS	
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 1514 Broadway, Suite 201, Ft. Myers, FL 33901-3015  
 FBPE Certificate of Authorization No. 24  
 Adrienne A. Wisdom, P.E. 78492

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**SUMMARY OF QUANTITIES (4)**

SHEET NO.  
8



SUMMARY OF DRAINAGE STRUCTURES

QUANTITY	STRUCT. NO.	STATION	SIDE	DESCRIPTION	BARRELS	SIZE (IN)	STORM/SIDE DRAIN			DITCH BOTTOM INLETS			MITERED END SECTION		CLASS I CONCRETE (CY)	REMARKS
							ROUND			C (<10') (EA)	C, MODIFY (<10') (EA)	C, PARTIAL (<10') (EA)	18" (EA)	14" X 23" (EA)		
							15" (LF)	18" (LF)	30" (LF)							
P																
F																
P	S-1	152+77.35	RT	MES	1								1			
F																
P	S-2	153+59.00	RT	MES, PIPE		18		16					1			
F																
P	S-3	163+00.01	RT	MES, PIPE	1	18		10					1			
F																
P	S-4	163+84.65	RT	PIPE, MES	1	18		10					1			
F																
P	S-5	165+80.00	RT	INLET, PIPE	1	18		23		1						
F																
P	S-6	166+04.13	RT	END WALL										1.56	CONCRETE END WALL W/ 18" PIPE	
F																
P	S-7	181+50.00	RT	INLET, PIPE				89		1						
F																
P	S-8	182+40.63	RT	INLET						1						
F																
P	S-9	183+09.25	RT	INLET						1						
F																
P	S-10	184+50.00	RT	INLET, PIPE	1	18		138		1						
F																
P	S-11	185+50.00	RT	INLET, PIPE	1	18		99		1						
F																
P	S-12	188+86.62	RT	INLET						1						
F																
P	S-13	189+61.97	RT	INLET						1						
F																
P	S-14	191+00.00	RT	INLET, PIPE	1	15		134		1						
F																
P	S-14A	195+50.00	RT	INLET, PIPE	1	15		189		1						
F																
P	S-15	196+70.75	RT	INLET						1						
F																
P	S-16	198+50.03	RT	INLET, PIPE	1	15		84		1						
F																
P	S-17	199+36.89	RT	INLET, PIPE	1	30				1					CONCRETE JACKET (2)W/ J BOTTOM (3.5'X4.0')	
F																
P	S-18	200+50.00	RT	INLET	1	15		100		1						
F																
P	S-19	202+30.00	RT	INLET, PIPE	1	15		173		1						
F																
P	S-20	204+05.98	RT	INLET							1					
F																
P	S-21	204+37.56	RT	INLET							1					
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SHEET TOTALS					PLAN QUANTITY	680	385	13	5	10	2	2	2	1.56		
					FINAL QUANTITY											

REVISIONS	
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 Mariger D. Figueroa, P.E. 72392

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

SHEET NO.
9

SUMMARY OF DRAINAGE STRUCTURES

**GENERAL NOTES**

1. HORIZONTAL DATUM IN PLANS IS THE NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD 83/11). THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ENGINEER SHOULD NOTIFY THE COUNTY PROJECT MANAGER WITHOUT DELAY BY TELEPHONE.
3. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
4. EXISTING DRIVEWAYS TO REMAIN UNLESS SPECIFIED IN PLANS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE RESTORATION EFFORTS THAT MAY BE REQUIRED AS A RESULT OF CONSTRUCTION.
6. EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
7. PROPOSED SIDEWALKS AND CURB RAMPS SHALL CONFORM TO THE LATEST ADA STANDARDS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT.

**SIGNING AND MARKING NOTES**

- 1) ANY EXISTING SINGLE-POST AND MULTI-POST SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- 2) ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET ACCORDING TO STANDARD INDEXES 11860 AND 17302 FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION.
- 3) CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE.
- 4) ALL PERMANENT PAVEMENT MARKINGS PLACED WITHIN THE LEE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
- 5) EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY HYDROBLASTING.
- 6) ANY SIGN MOUNTED OVER A SIDEWALK SHALL HAVE A STANDARD VERTICAL CLEARANCE OF 8 FEET AND A HORIZONTAL CLEARANCE OF 2 FEET TO THE POLE.

**UTILITY NOTES**

1. THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT SIZE, LOCATION, DEPTH, HEIGHT, ELEVATION, DIMENSION AND EXTENT OF ALL UNDERGROUND AND OVERHEAD FACILITIES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY THAT MAY AFFECT SUCH FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.


THE CONTRACTOR SHOULD CALL SUNSHINE 811 AND THE UTILITY OWNERS 48 HOURS BEFORE BEGINNING WORK. ALL UTILITIES MAY NOT BE MEMBERS OF SUNSHINE STATE ONE AND WILL THEREFORE REQUIRE DIRECT CONTACT.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS WITHIN THE PROJECT'S LIMITS (INCLUDING THOSE LISTED BELOW), COORDINATING AND OBTAINING PROPOSED RELOCATION/INSTALLATION SCHEDULES FOR ALL IMPACTED UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND VERIFYING THE EXACT LOCATION OF ALL EXISTING UTILITIES.

THE FOLLOWING UTILITY COMPANIES HAVE BEEN IDENTIFIED WITHIN THE CONSTRUCTION VICINITY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTHS AND FIELD LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ACTUAL UTILITY LOCATIONS AND DEPTHS MAY VARY FROM THOSE DEPICTED WITHIN THIS CONSTRUCTION PLAN SET.

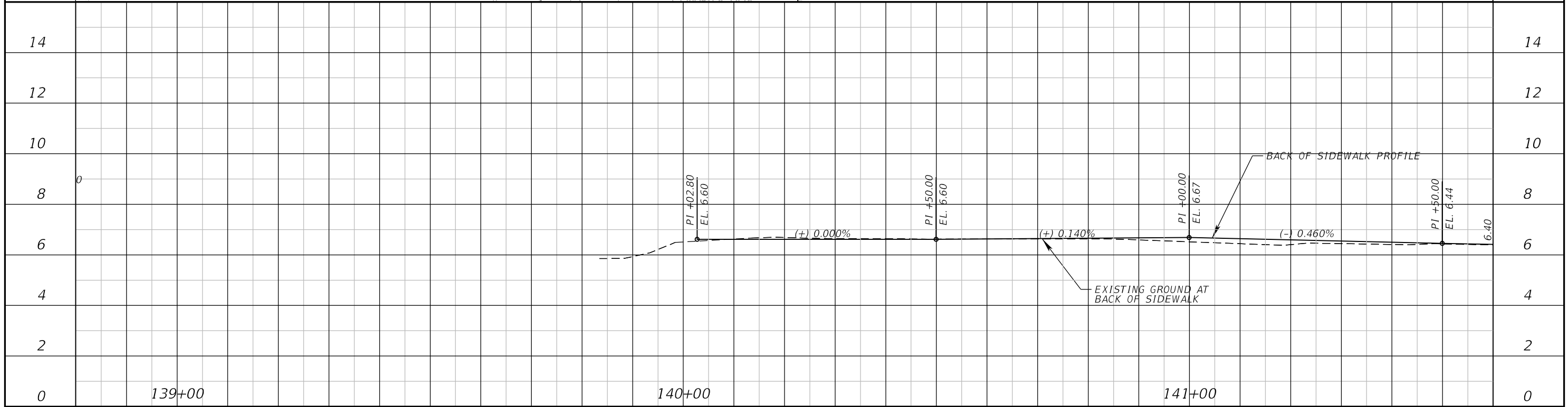
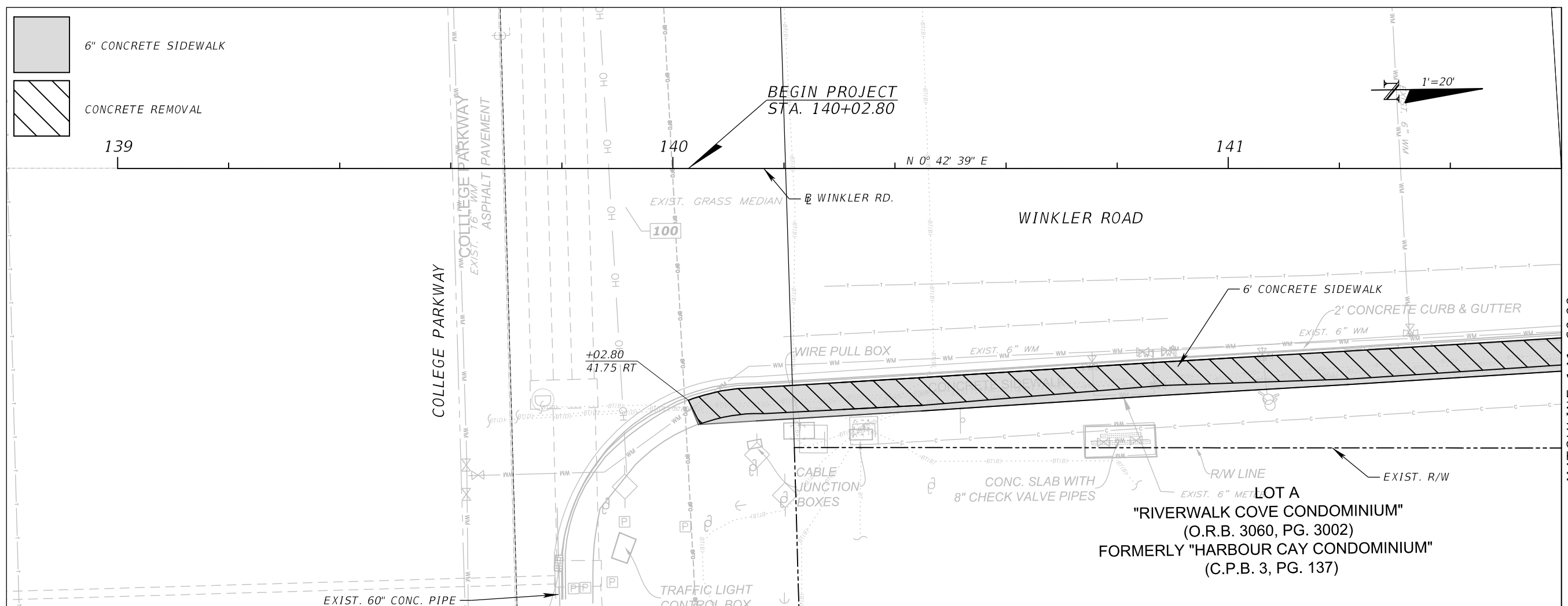
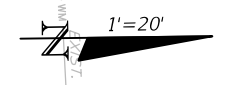
**UTILITY CONTACTS**

FPL FIBERNET LLC	DANNY HASKETT	(305) 552-2931, ALT (786) 246-7827
FLORIDA POWER AND LIGHT - LEE	TRACY STERN	(800) 868-9554, ALT (386) 329-5152
FLORIDA POWER AND LIGHT - SUBAQUEOUS	TRACY STERN	(800) 868-9554, ALT (386) 329-5152
COMCAST CABLE COMMUNICATION INC.	GREG LAMB	(239) 334-8828 X129
SUMMIT BROADBAND INC.	MIKE REBER	(239) 325-4105 X261, ALT (239) 631-9251
LEE COUNTY SIGNAL DEPARTMENT	TOM WATTS	(239) 964-7600 X4126
LEE COUNTY IRRIGATION	JOE SULAK	(239) 533-9400
LEE COUNTY UTILITIES	TERRY KELLEY	(239) 479-8181
TECO PEOPLES GAS - FT MYERS	MARIULYN ALOI	(239) 690-5517
CENTURY LINK FT MYERS	CRAIG CLARK	(239) 336-2003

<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>		REVISIONS		DATE	DESCRIPTION				<p><b>ATKINS</b> 1514 Broadway, Suite 201, Ft. Myers, FL 33901-3015 FBPE Certificate of Authorization No. 24 Adrienne A. Wisdom, P.E. 78492</p>	<p>LEE COUNTY DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD</th> <th>COUNTY</th> <th>COUNTY PROJECT NO.</th> </tr> <tr> <td>WINKLER RD.</td> <td>LEE</td> <td>6974</td> </tr> </table>			ROAD	COUNTY	COUNTY PROJECT NO.	WINKLER RD.	LEE	6974	<p><b>GENERAL NOTES</b></p>	<p>SHEET NO.</p>
REVISIONS																				
DATE	DESCRIPTION																			
ROAD	COUNTY	COUNTY PROJECT NO.																		
WINKLER RD.	LEE	6974																		
			<p>10</p>																	

6" CONCRETE SIDEWALK

CONCRETE REMOVAL



REVISIONS	
DATE	DESCRIPTION



**ATKINS**

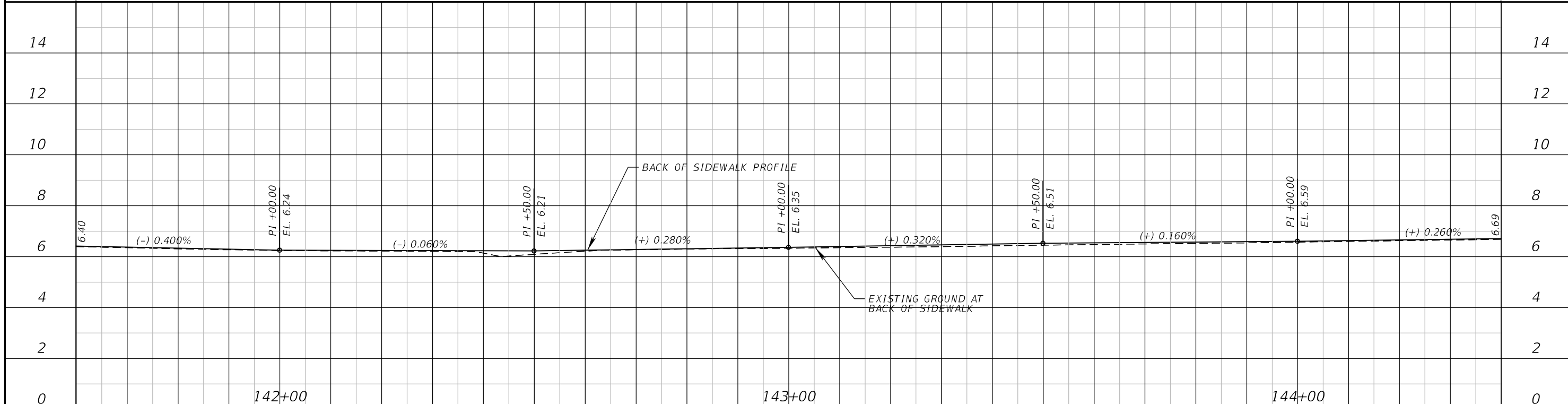
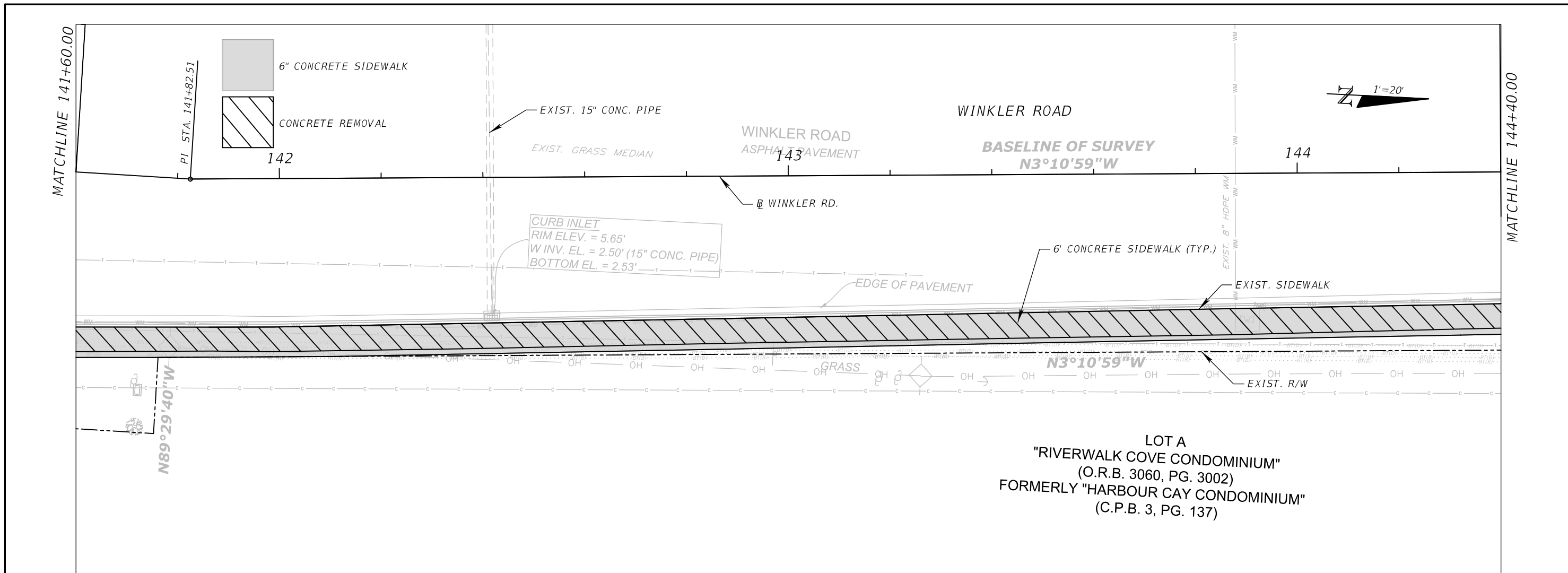
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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**

*PLAN - PROFILE (1)*

SHEET NO.	11
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REVISIONS	
DATE	DESCRIPTION

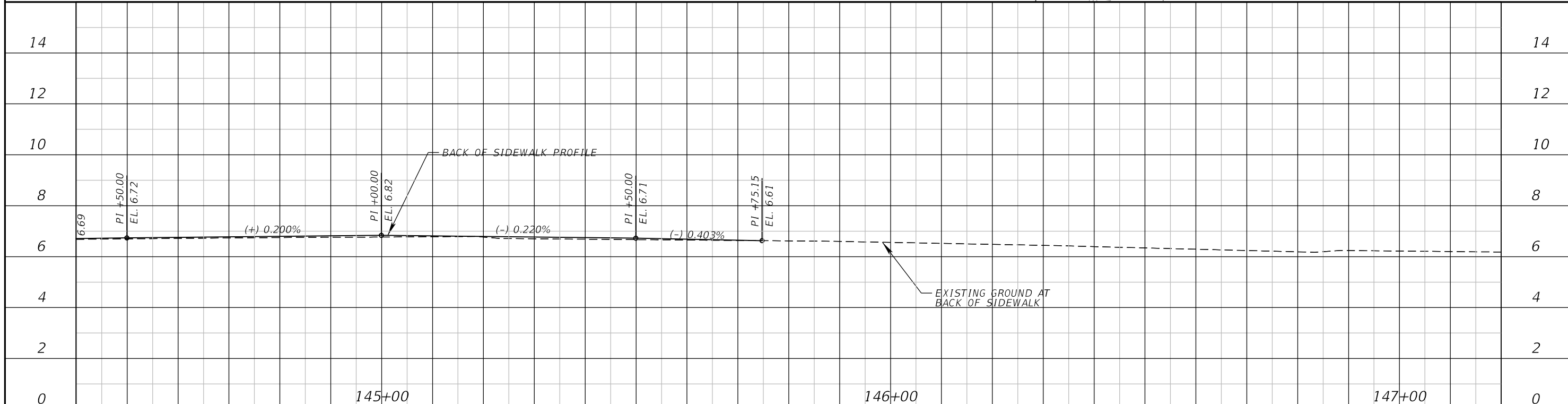
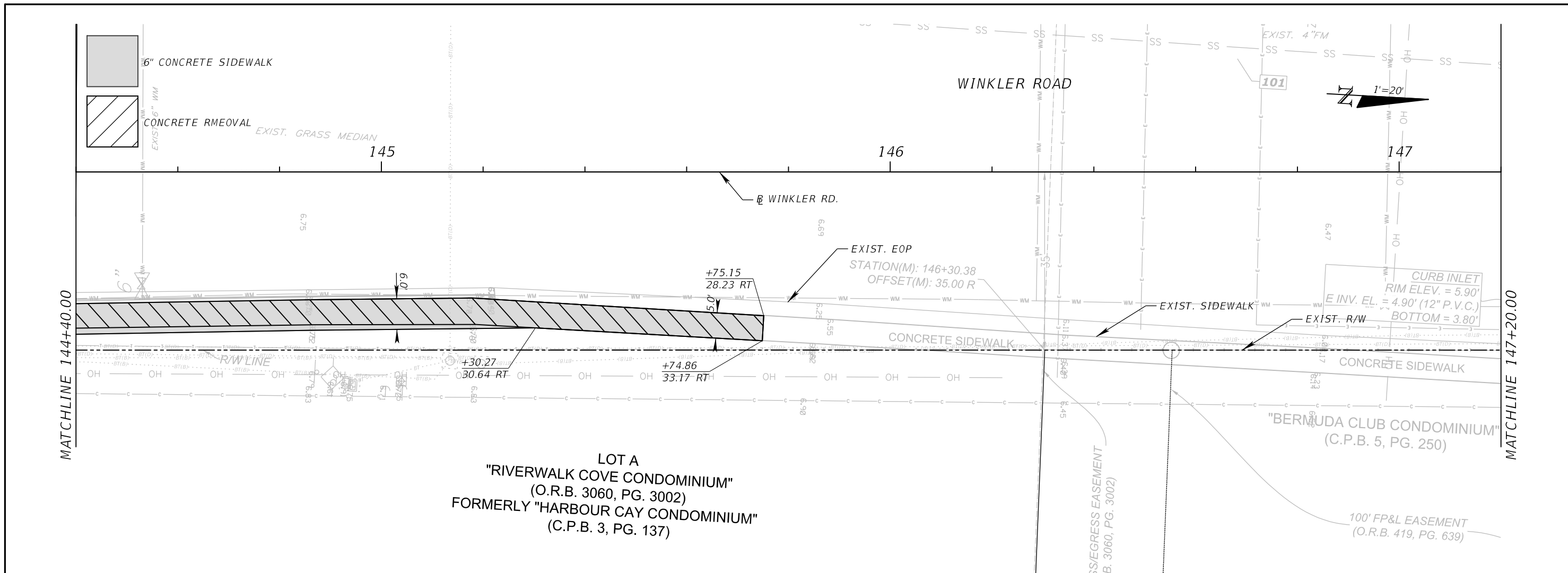


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (2)**

SHEET NO.  
 12



REVISIONS	
DATE	DESCRIPTION



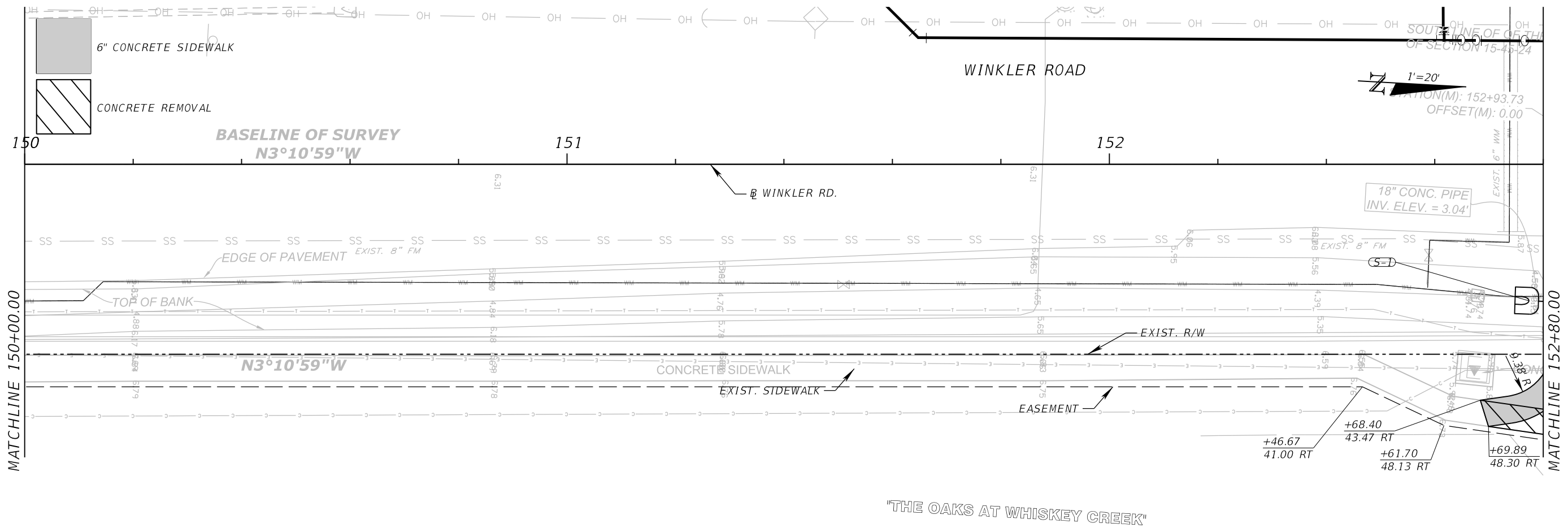
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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

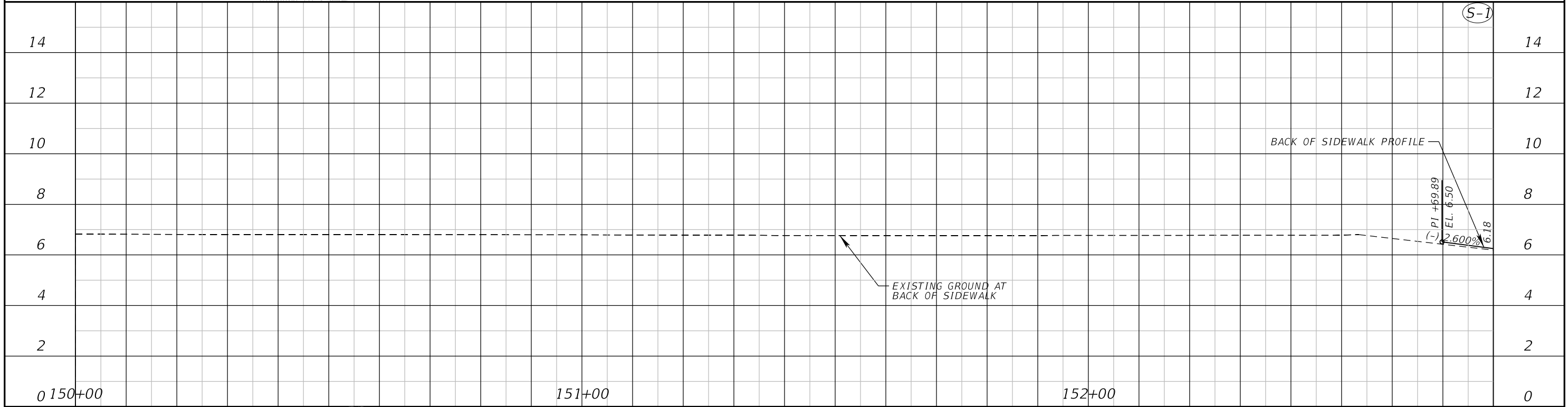
**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (3)**

SHEET NO.  
 13





(S-1)  
SEE DRAINAGE STRUCTURE SECTIONS



REVISIONS	
DATE	DESCRIPTION

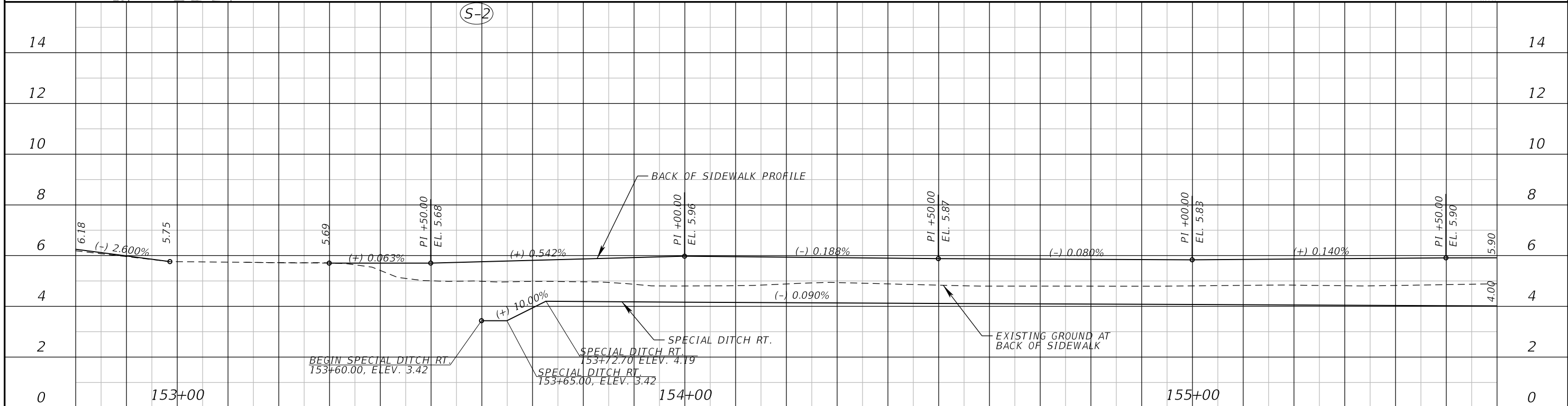
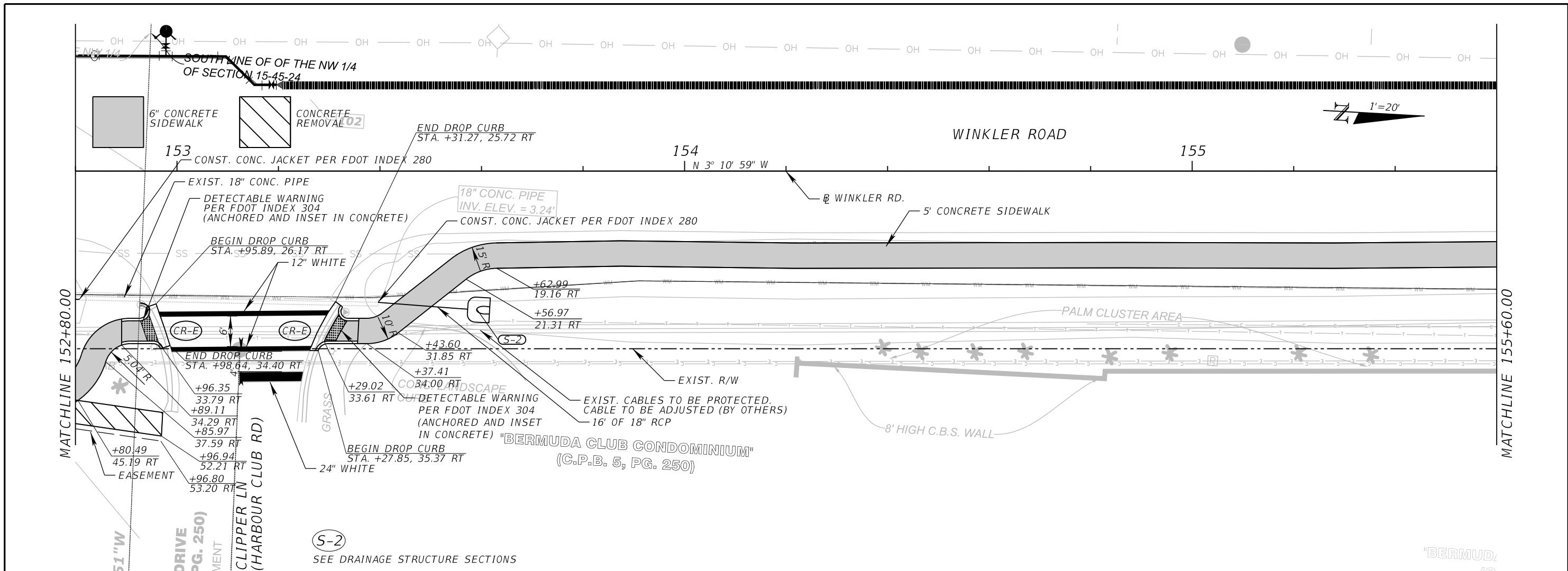


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WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (5)**

SHEET NO.  
15



REVISIONS	
DATE	DESCRIPTION



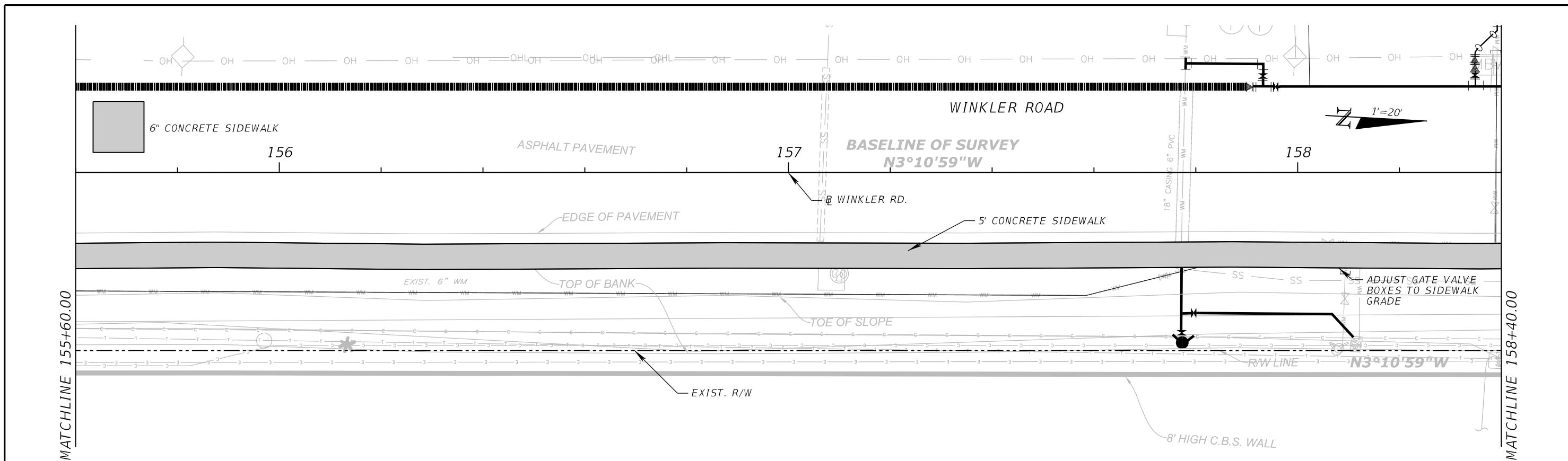
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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (6)**

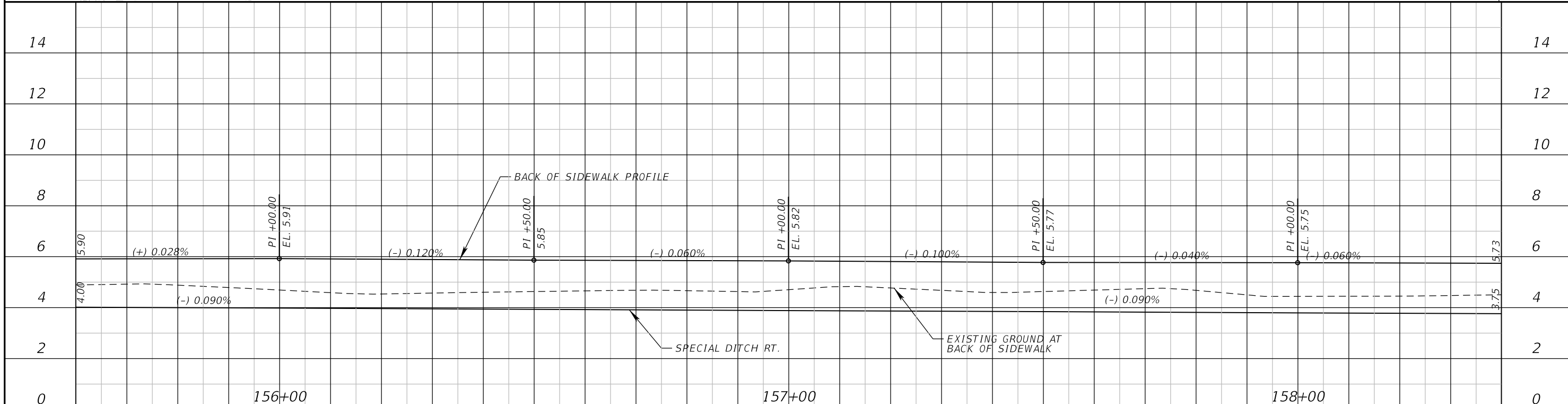
SHEET NO.  
**16**





"BERMUDA CLUB CONDOMINIUM"  
(C.P.B. 5, PG. 250)

"A CLUB CONDOMINIUM"



REVISIONS	
DATE	DESCRIPTION

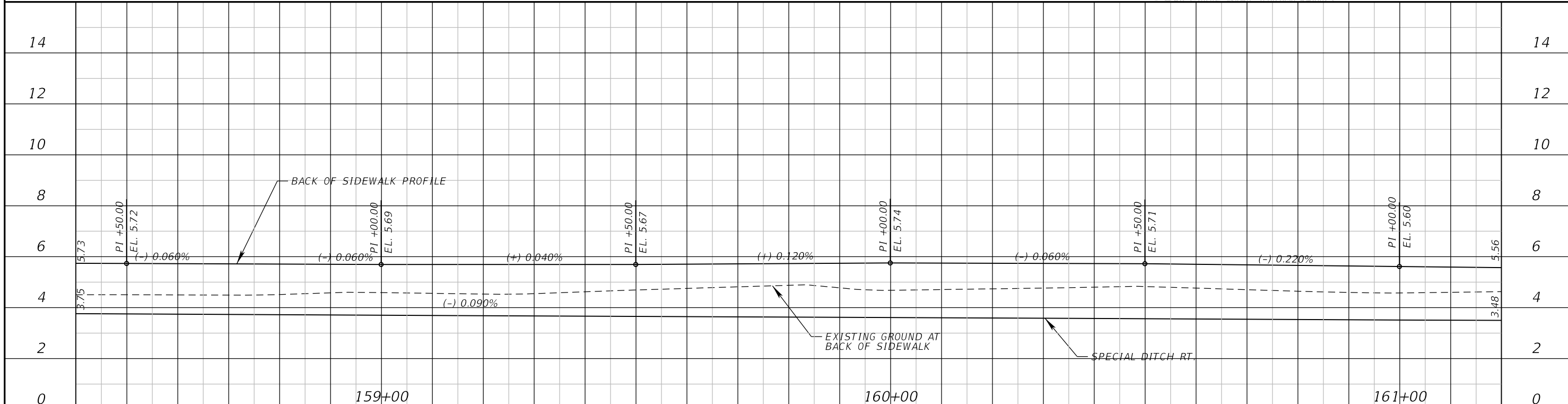
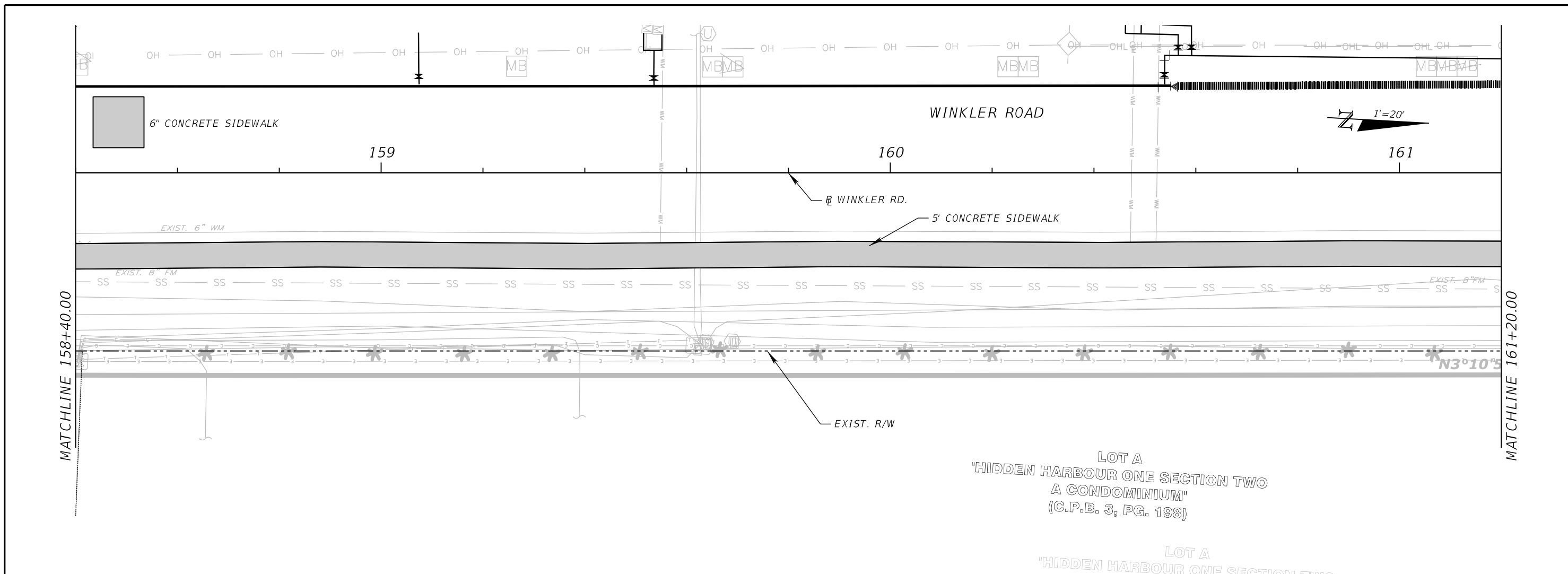


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
PLAN - PROFILE (7)**

SHEET NO.  
17



REVISIONS	
DATE	DESCRIPTION

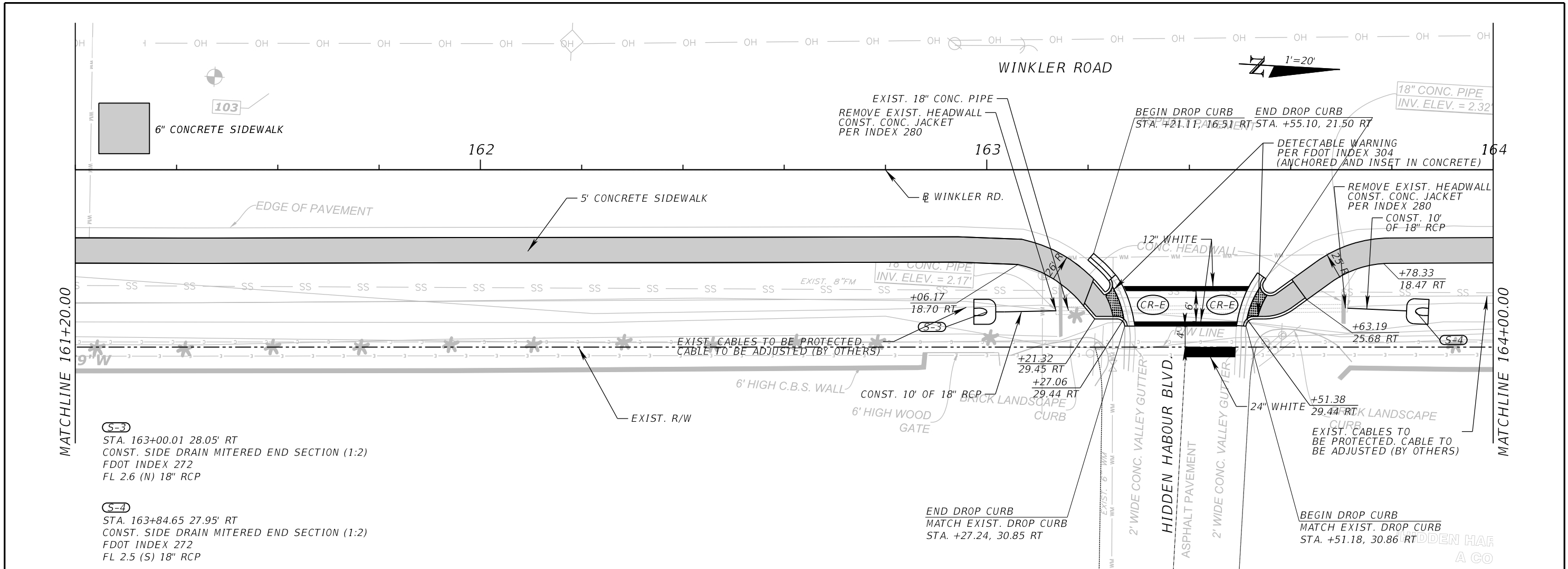


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

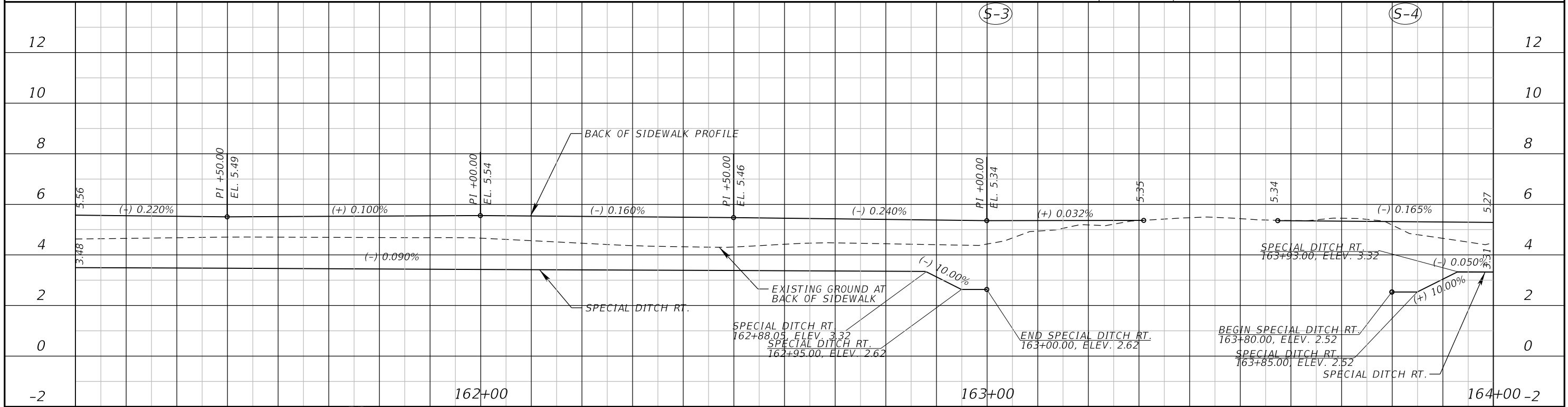
**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (8)**

SHEET NO.  
 18



**S-3**  
 STA. 163+00.01 28.05' RT  
 CONST. SIDE DRAIN MITERED END SECTION (1:2)  
 FDOT INDEX 272  
 FL 2.6 (N) 18" RCP

**S-4**  
 STA. 163+84.65 27.95' RT  
 CONST. SIDE DRAIN MITERED END SECTION (1:2)  
 FDOT INDEX 272  
 FL 2.5 (S) 18" RCP



REVISIONS	
DATE	DESCRIPTION

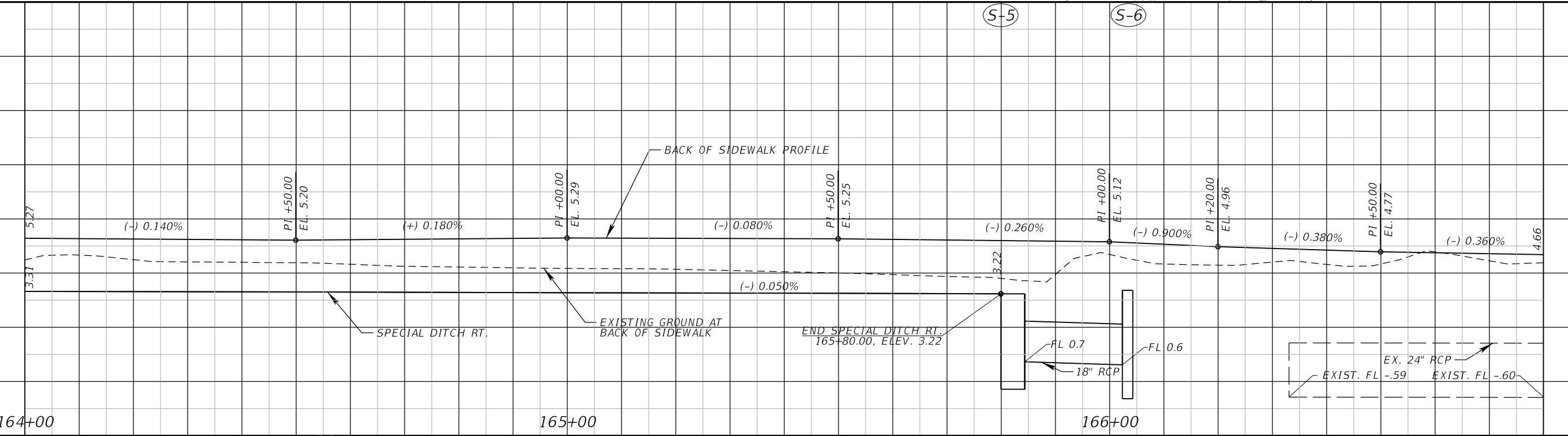
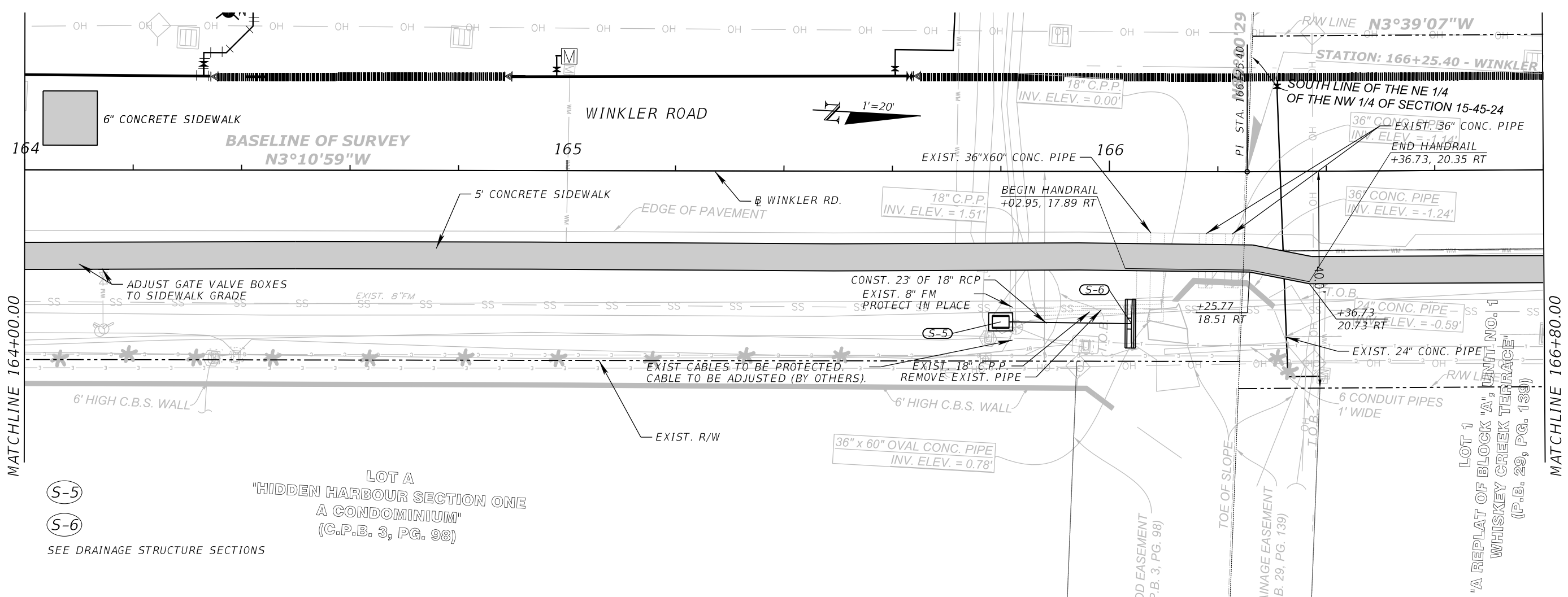


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (9)**

SHEET NO.  
 19



REVISIONS	
DATE	DESCRIPTION

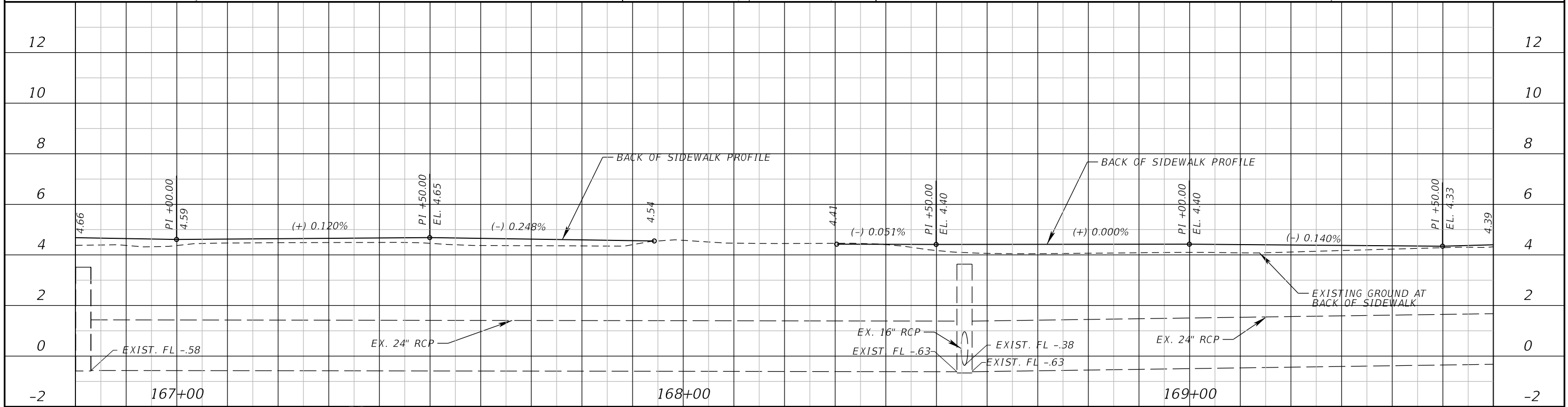
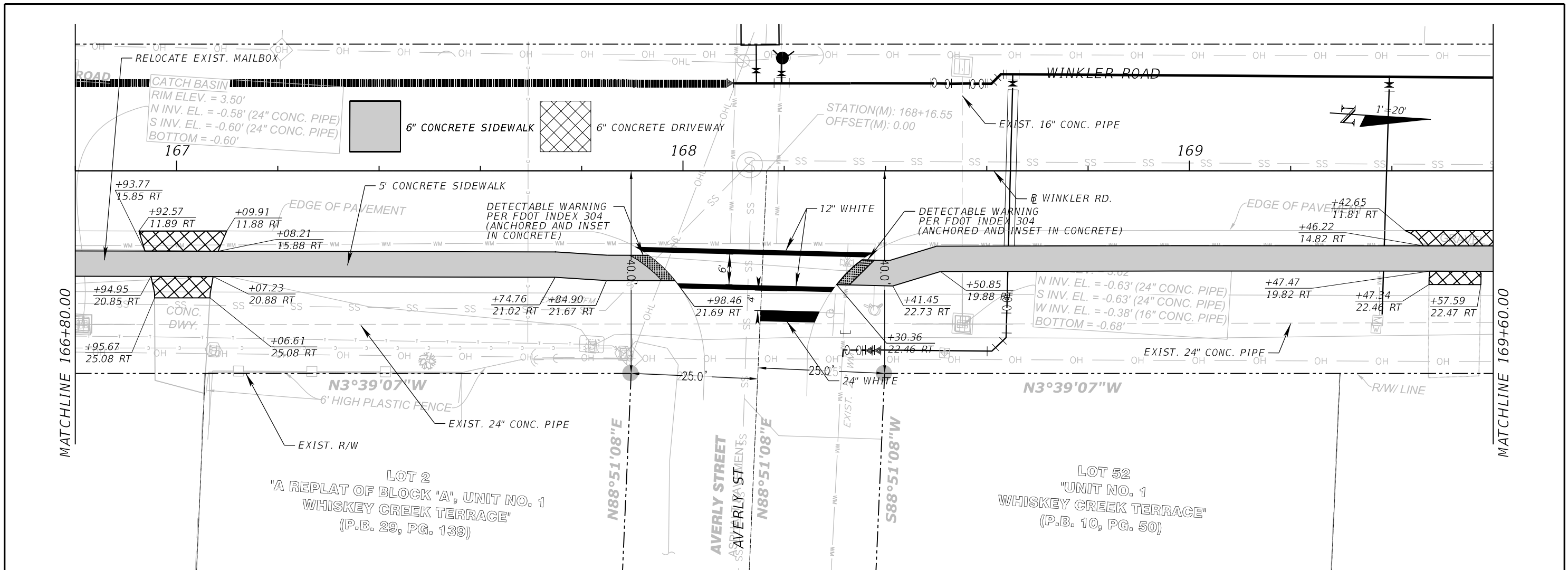


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (10)**

SHEET NO.  
20



REVISIONS	
DATE	DESCRIPTION

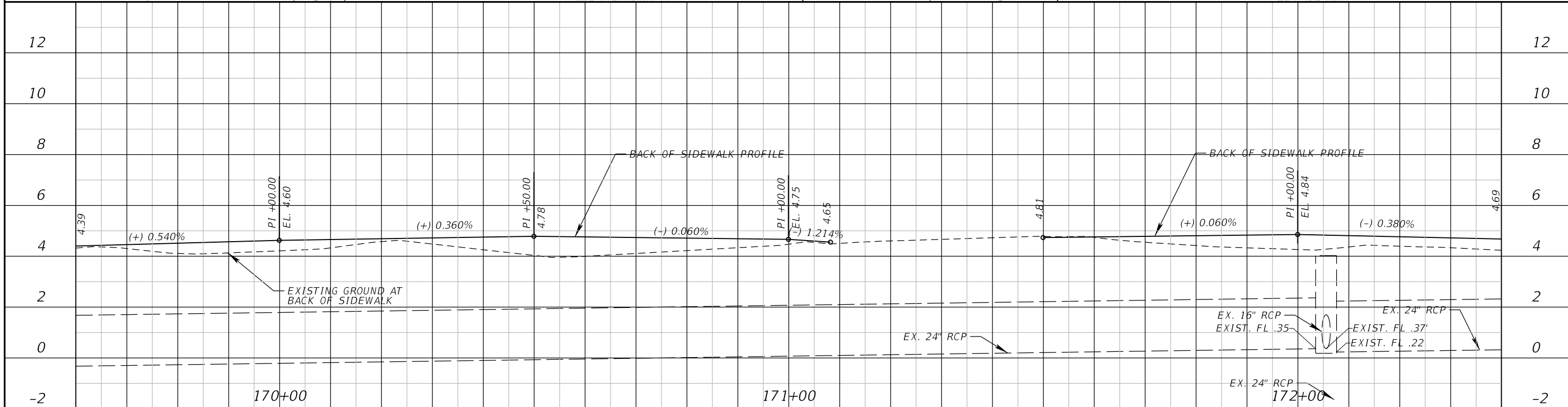
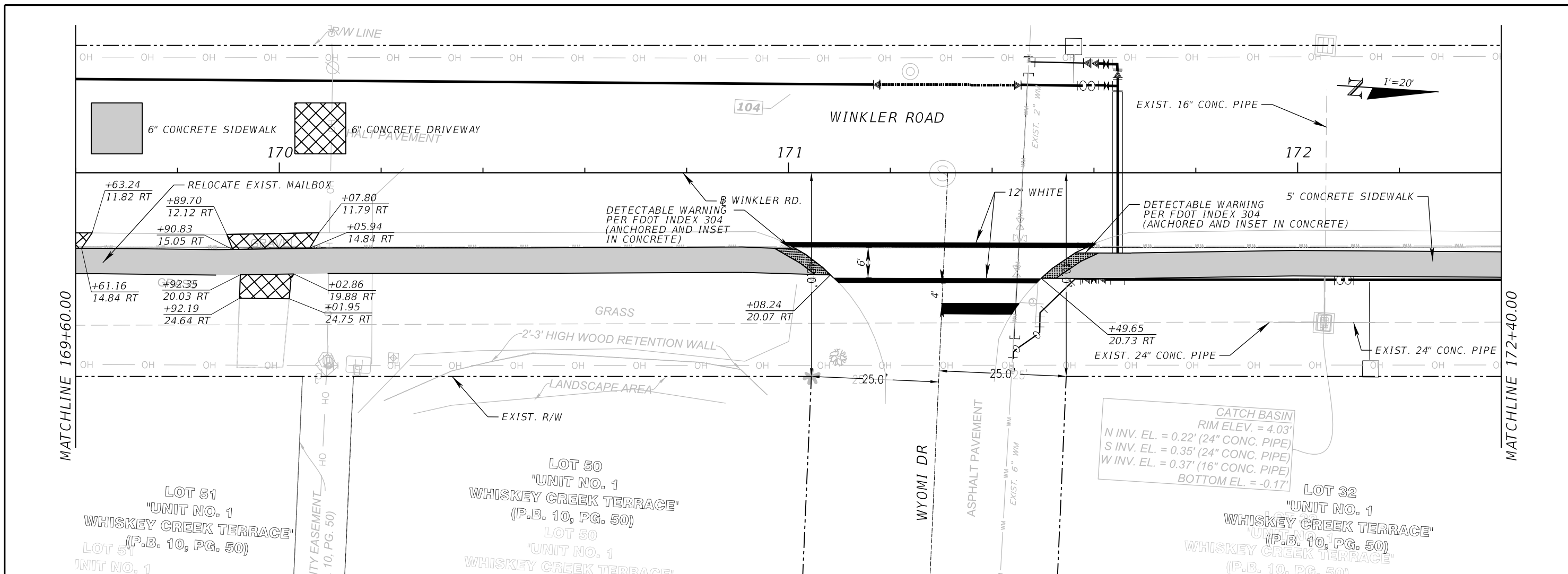


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (11)**

SHEET NO.  
21



REVISIONS	
DATE	DESCRIPTION

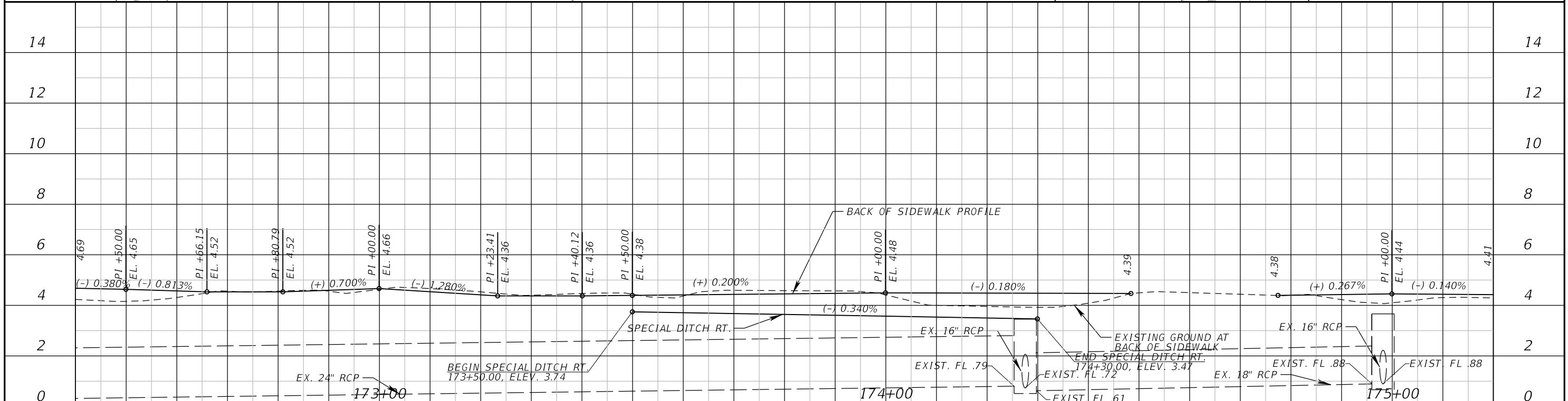
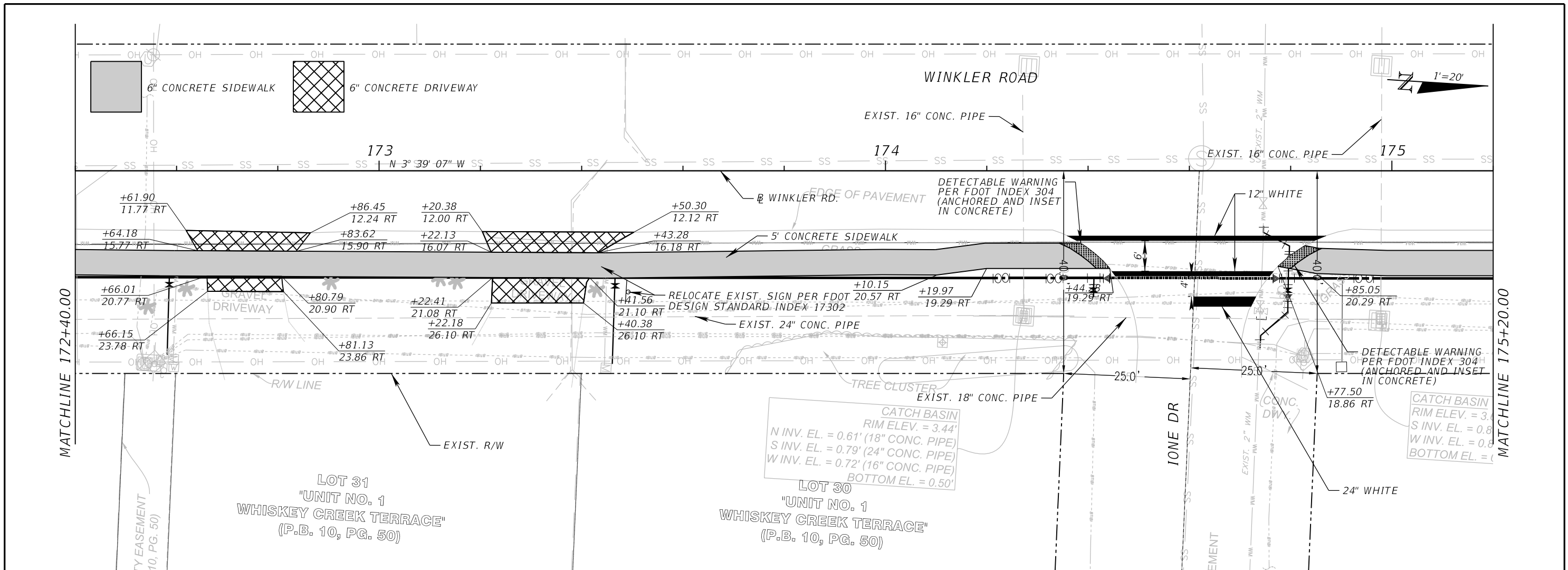


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
PLAN - PROFILE (12)**

SHEET NO.  
22



REVISIONS	
DATE	DESCRIPTION

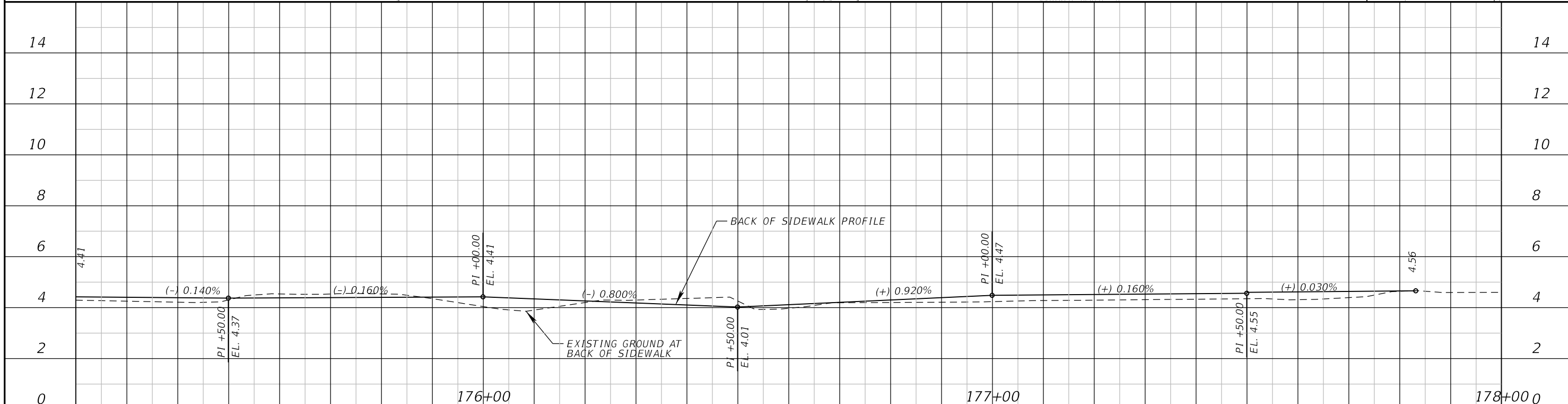
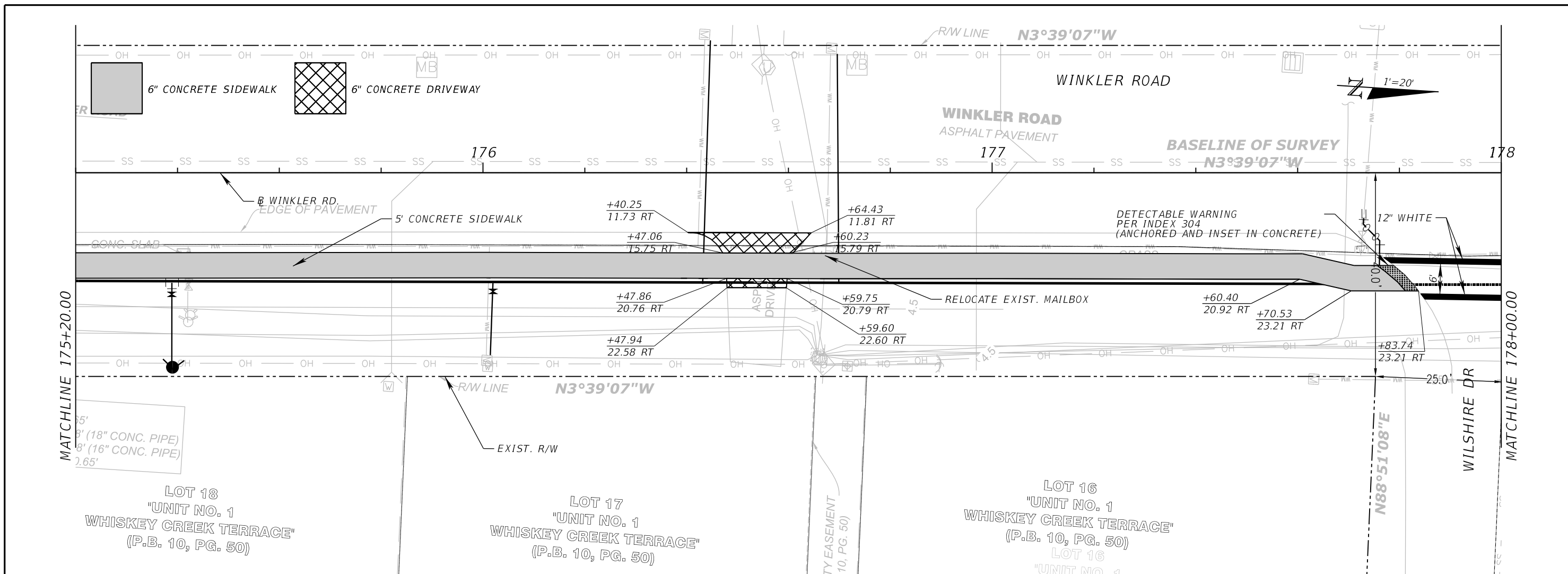


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Adrienne A. Wisdom, P.E. 78492

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
PLAN - PROFILE (13)**

SHEET NO.  
23



REVISIONS	
DATE	DESCRIPTION



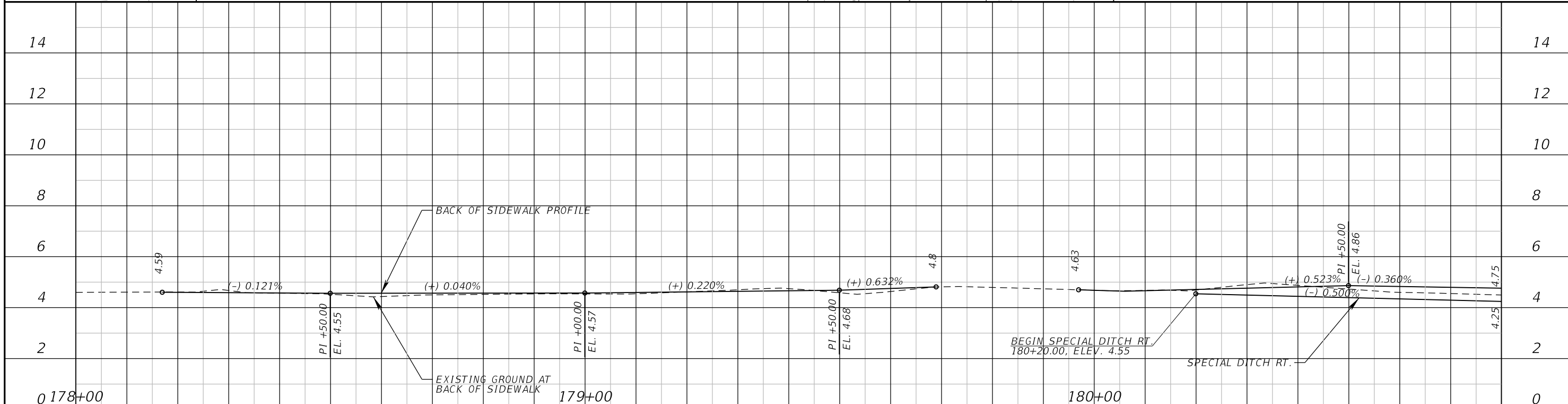
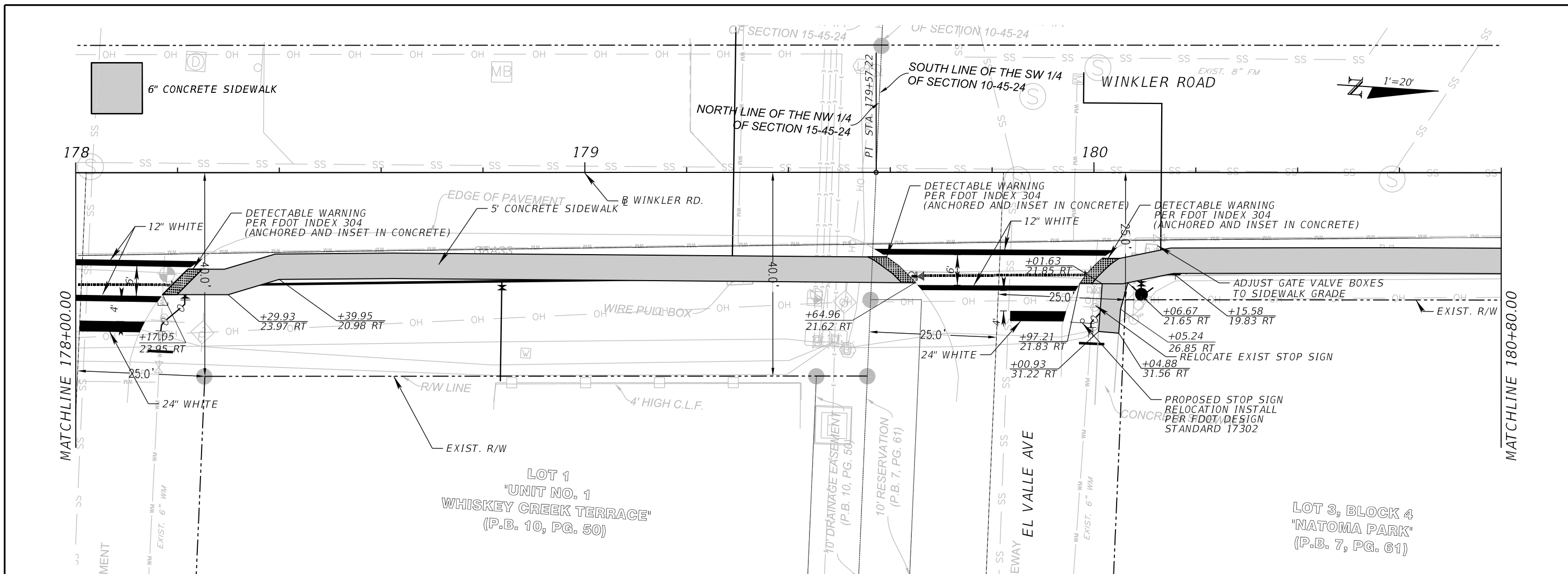
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ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
PLAN - PROFILE (14)**

SHEET NO.  
24





REVISIONS	
DATE	DESCRIPTION

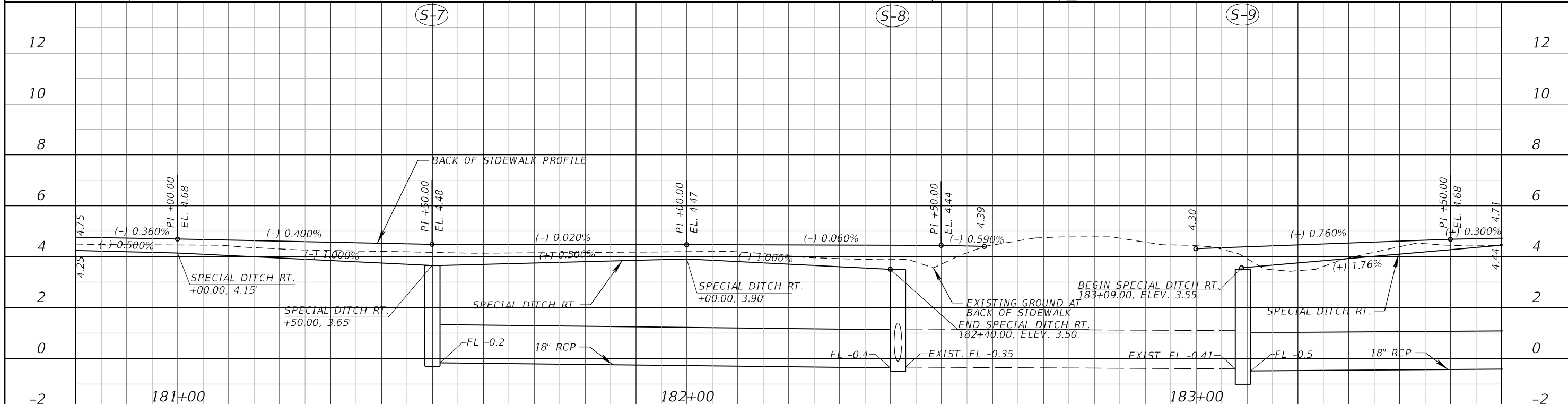
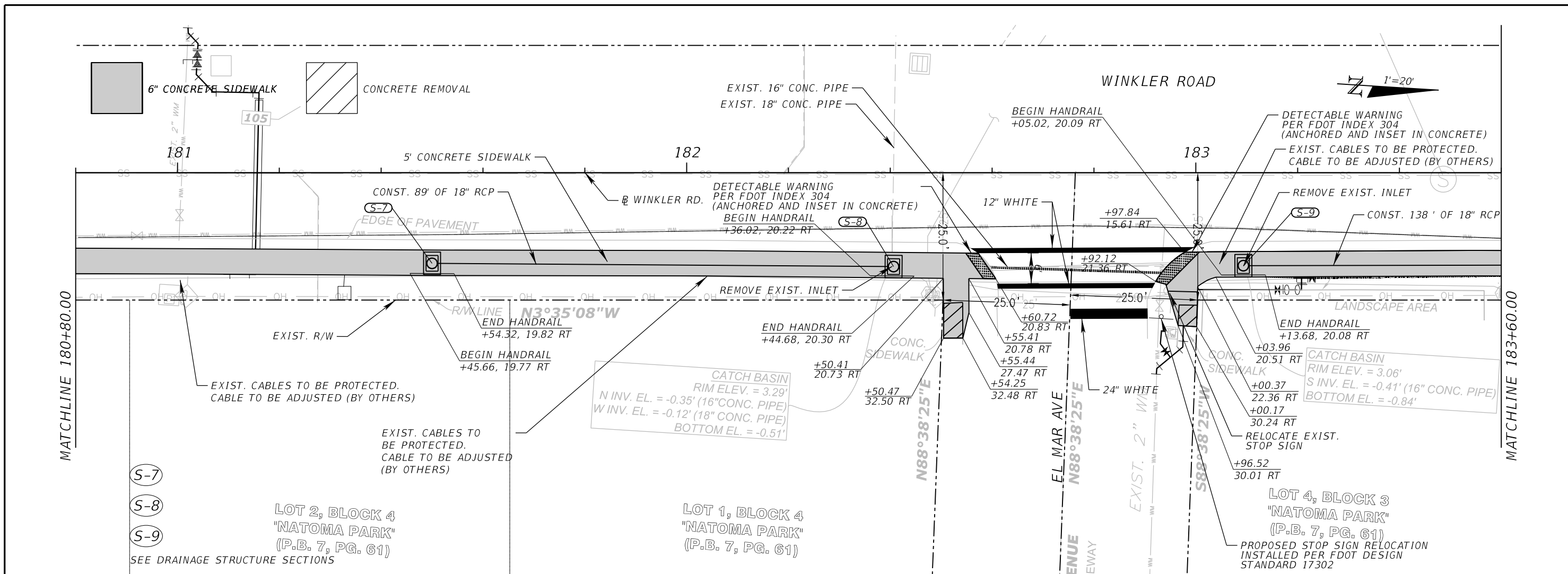


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ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (15)**

SHEET NO.  
 25



REVISIONS	
DATE	DESCRIPTION

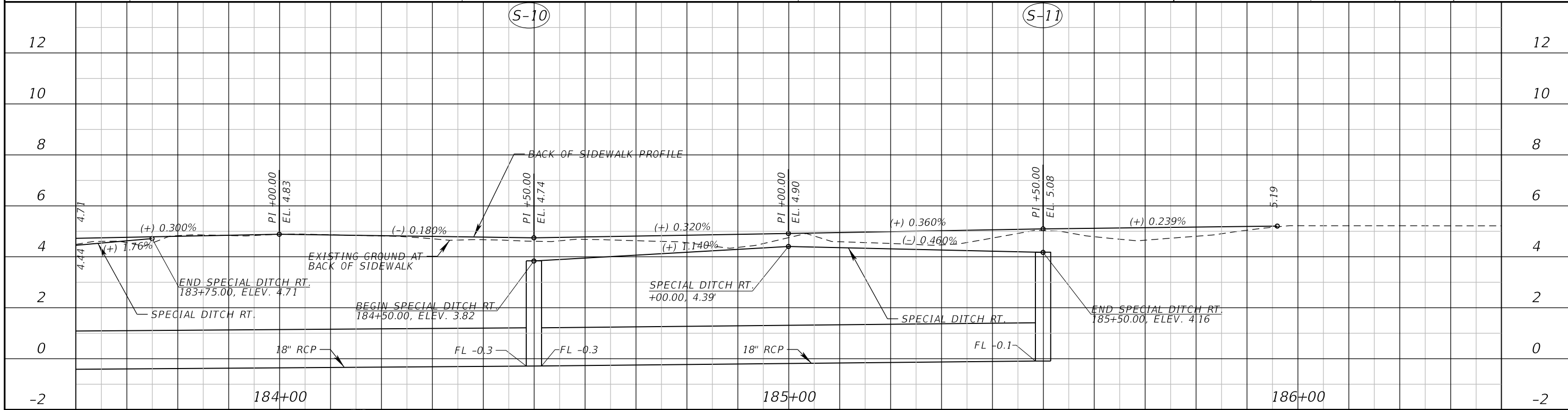
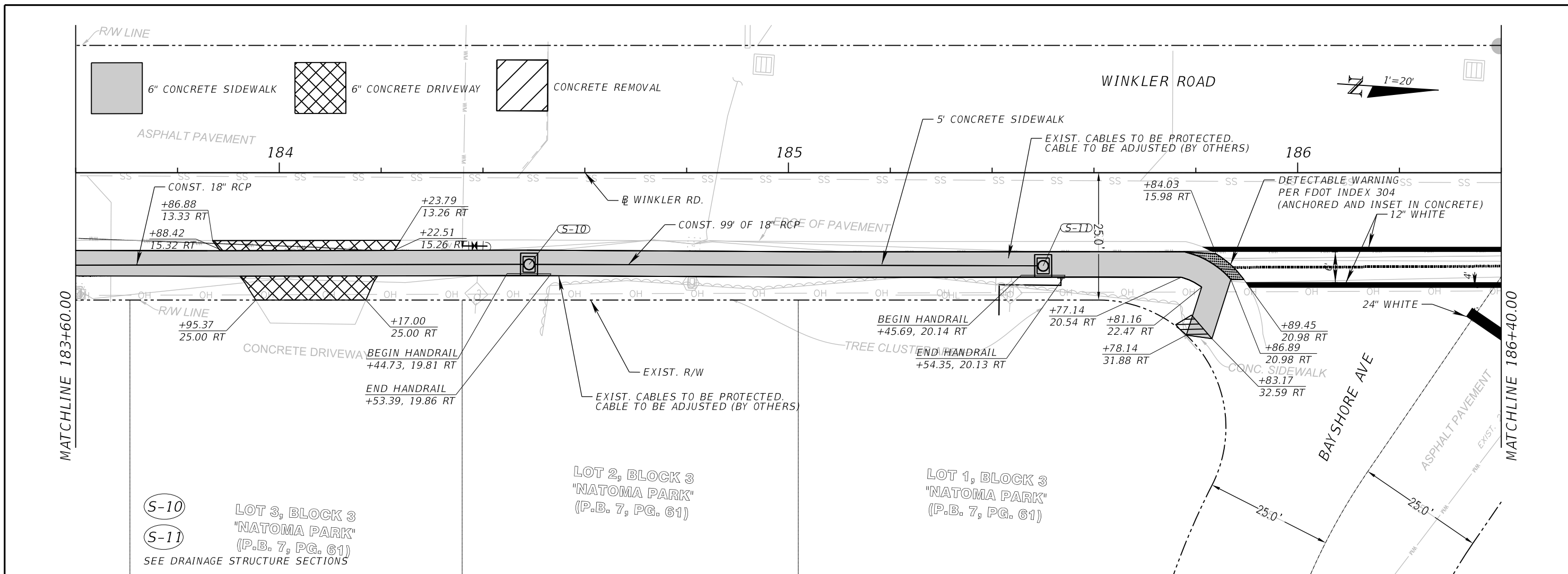


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
 PLAN - PROFILE (16)**

SHEET NO.  
 26



REVISIONS	
DATE	DESCRIPTION

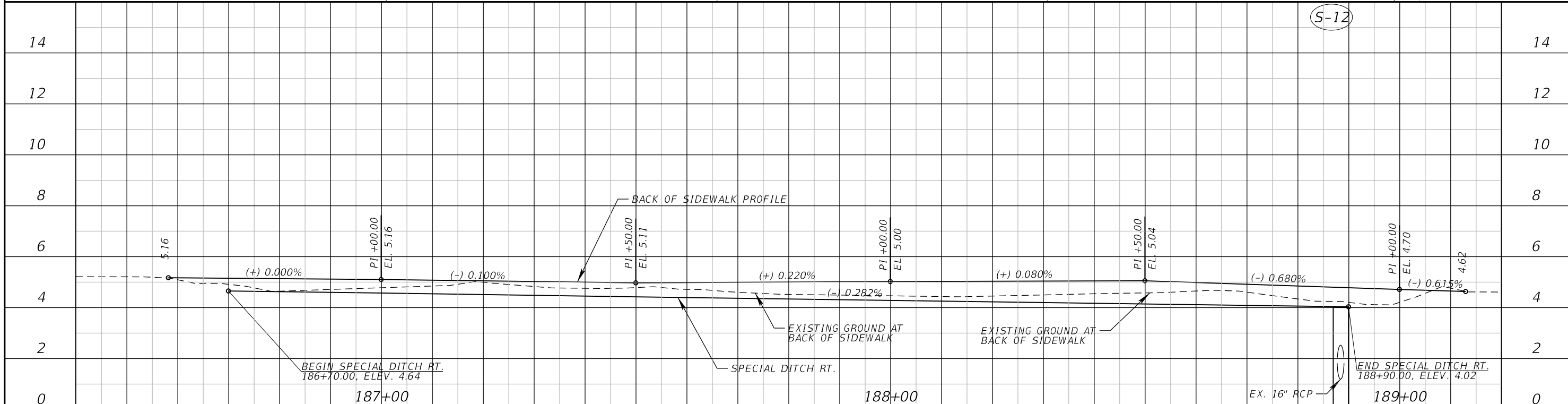
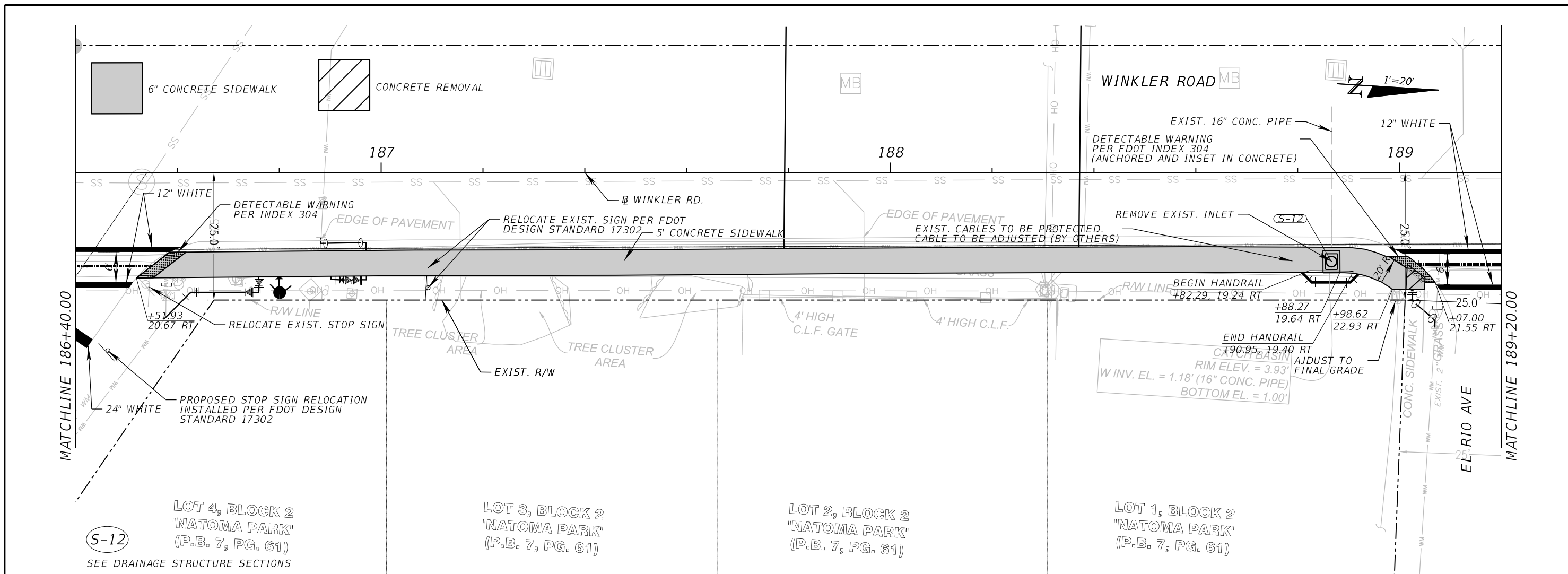


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ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK**  
**PLAN - PROFILE (17)**

**SHEET NO.**  
27



REVISIONS	
DATE	DESCRIPTION

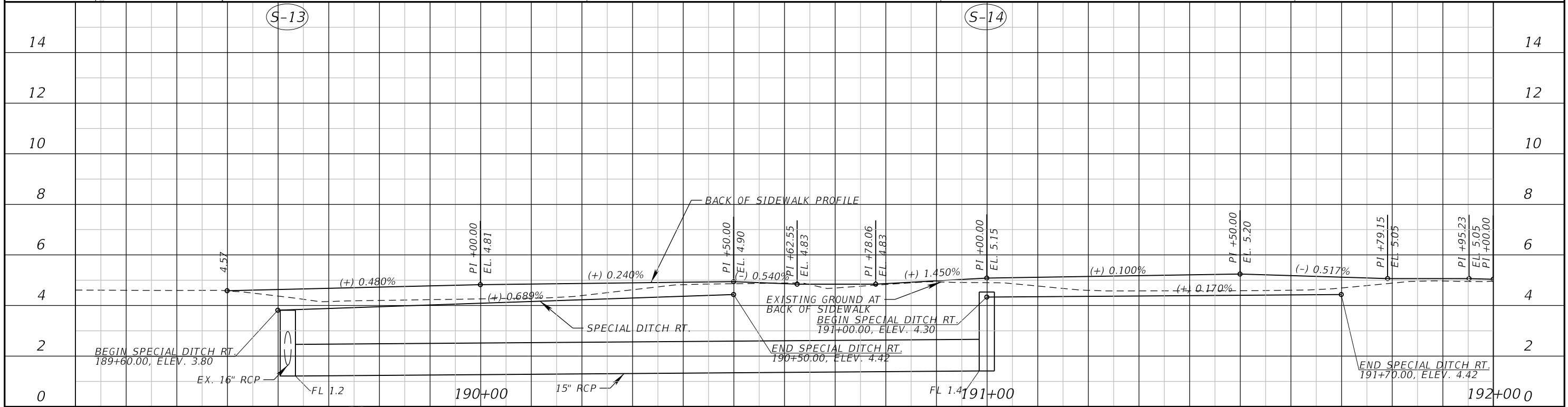
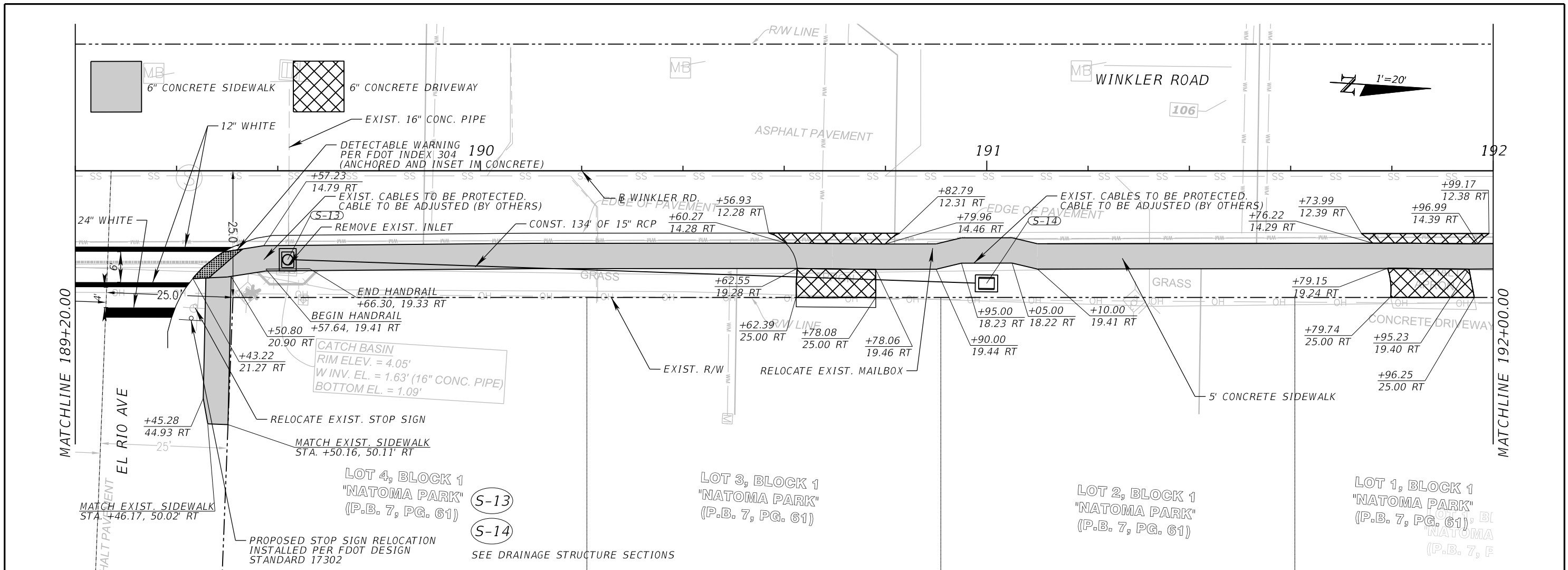


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WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
 PLAN - PROFILE (18)**

SHEET NO.  
 28



REVISIONS	
DATE	DESCRIPTION

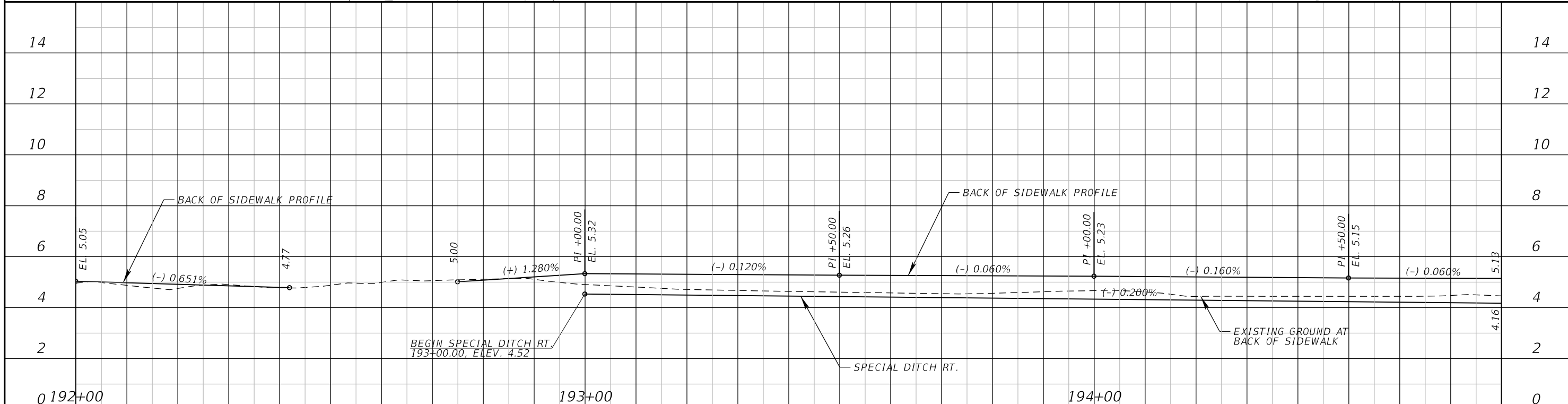
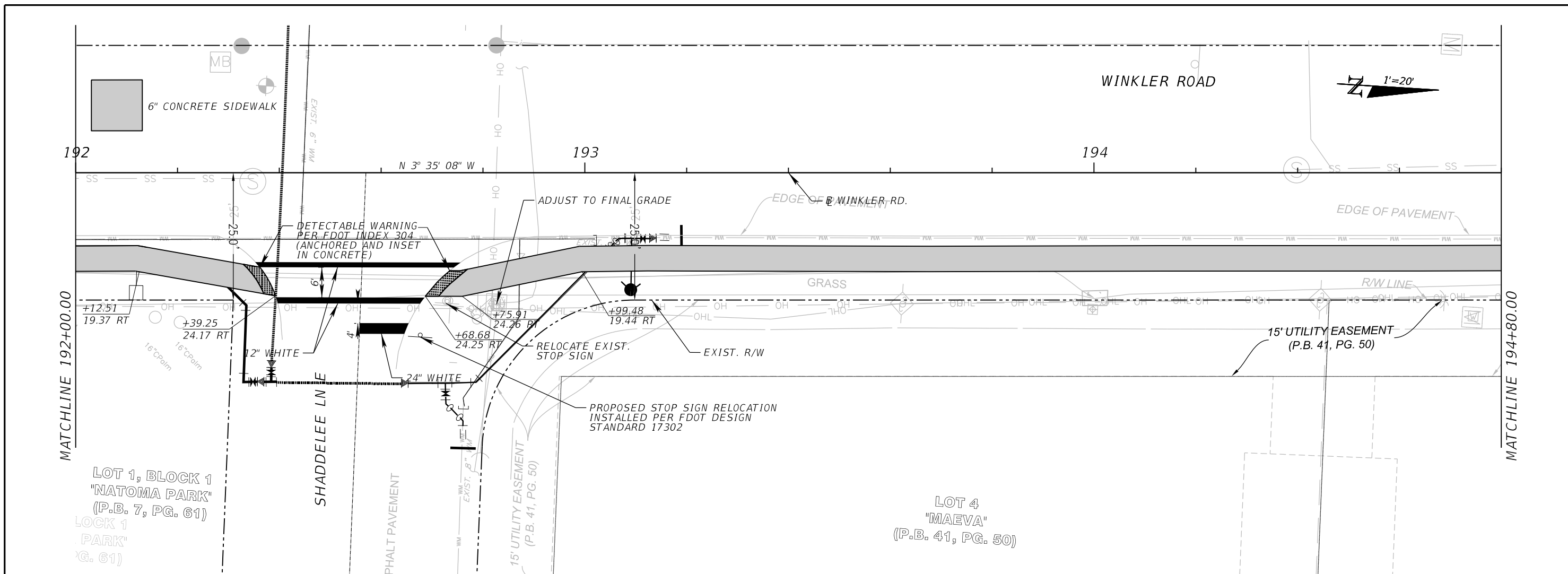


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ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
 PLAN - PROFILE (19)**

SHEET NO.  
 29



REVISIONS	
DATE	DESCRIPTION

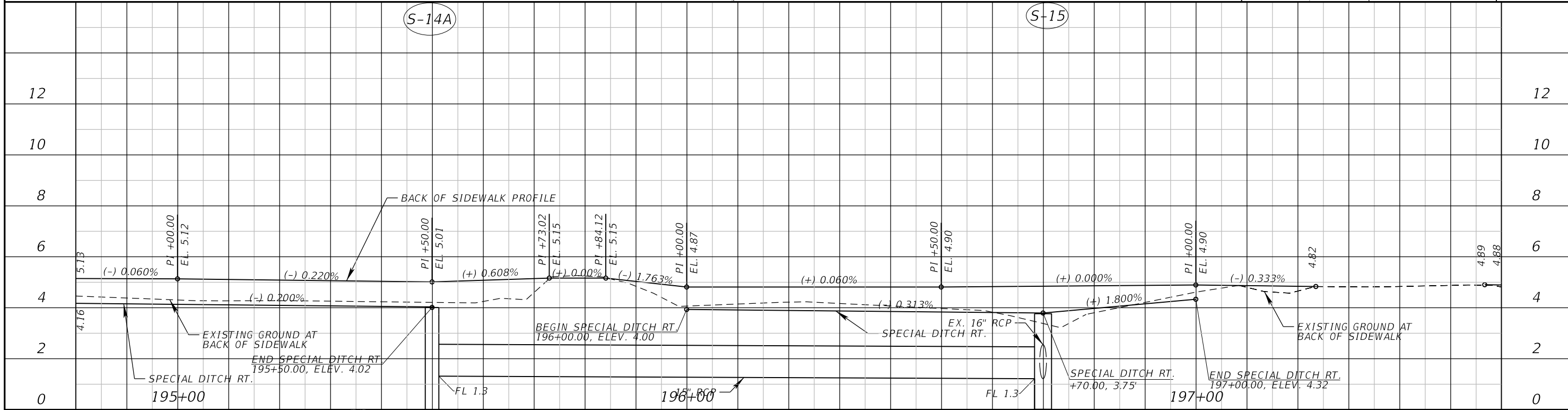
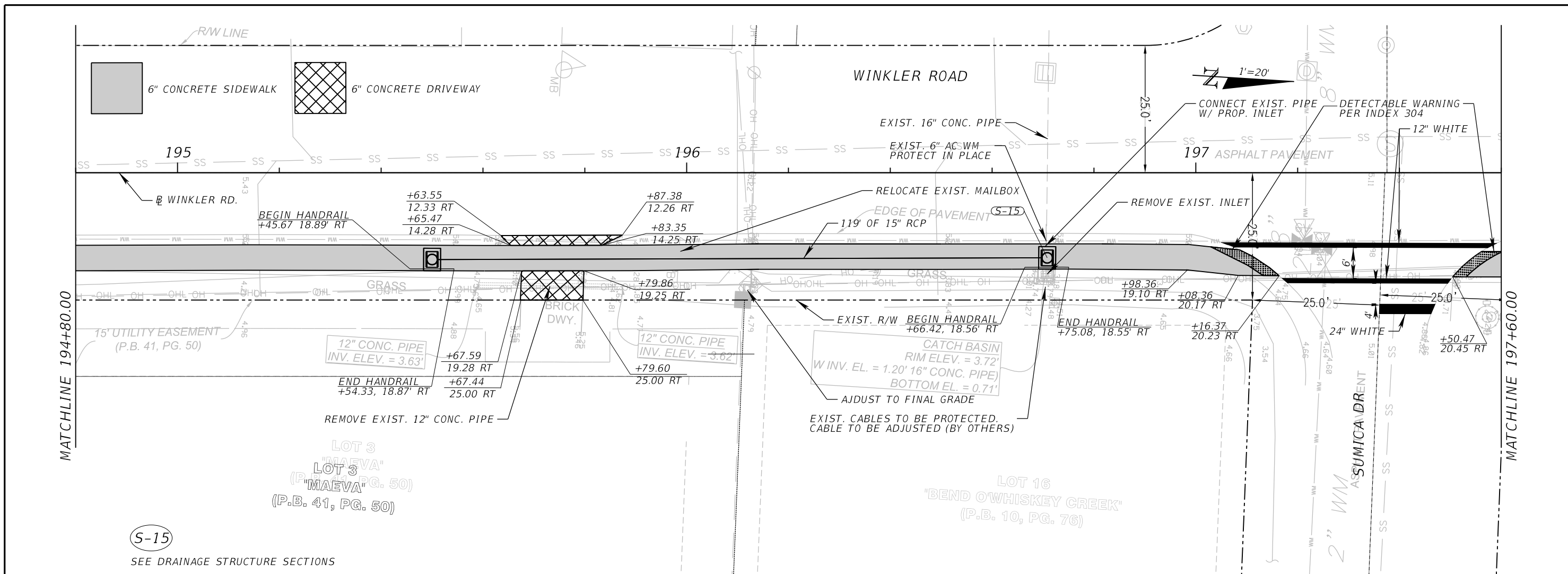


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WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
PLAN - PROFILE (20)**

SHEET NO.  
30



REVISIONS	
DATE	DESCRIPTION

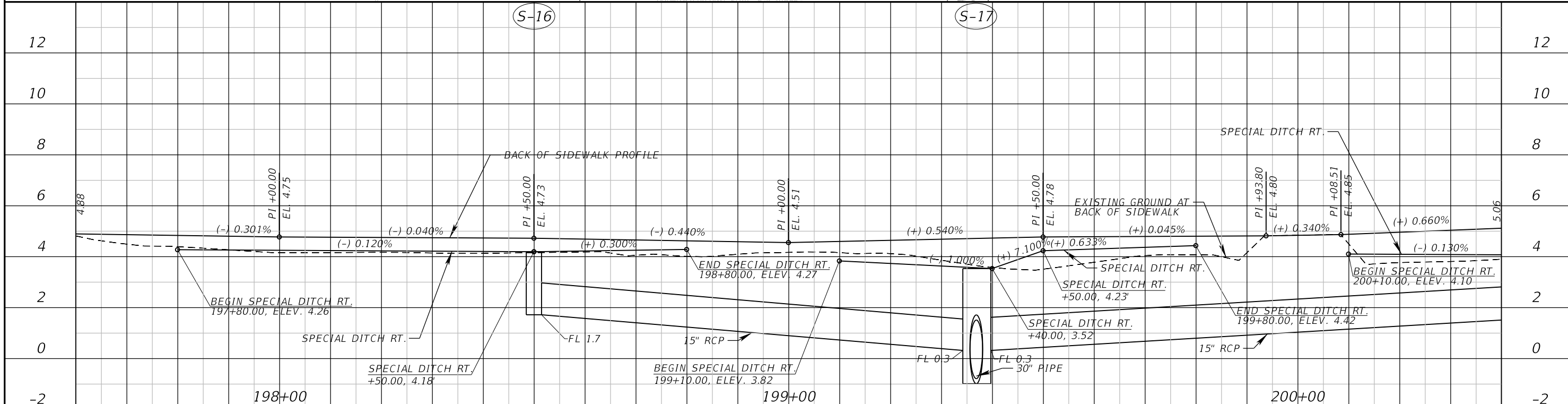
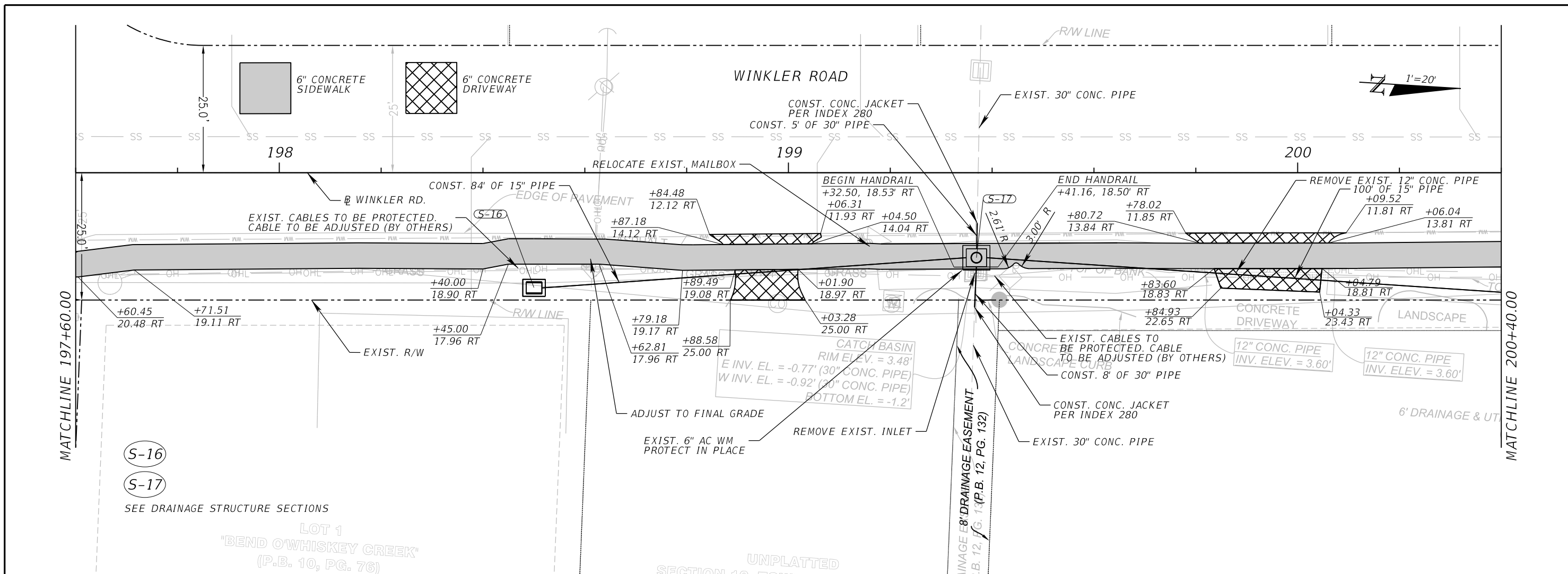


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ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
 PLAN - PROFILE (21)**

SHEET NO.  
 31



REVISIONS	
DATE	DESCRIPTION



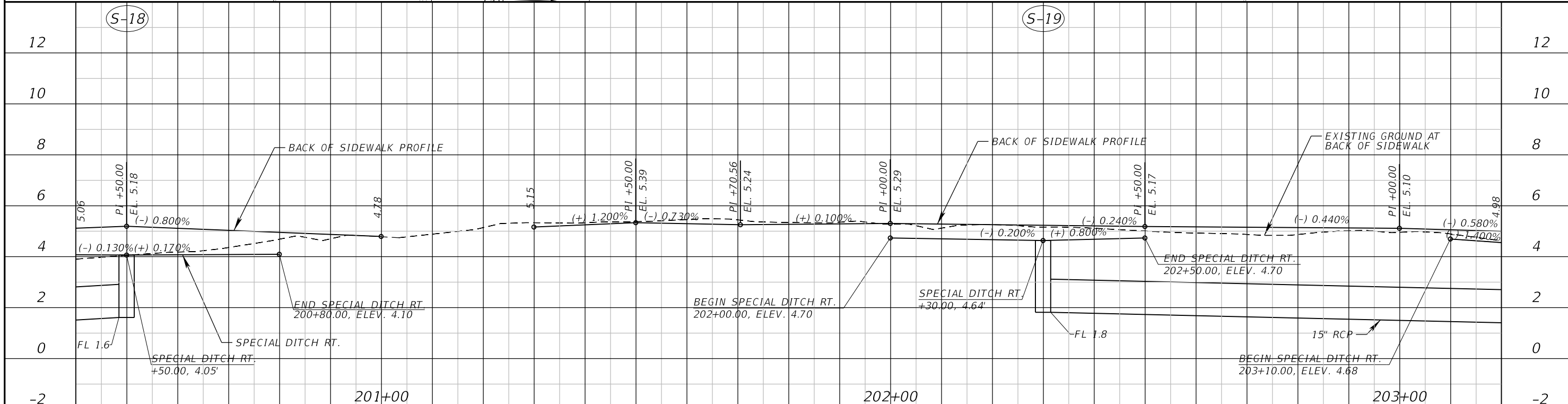
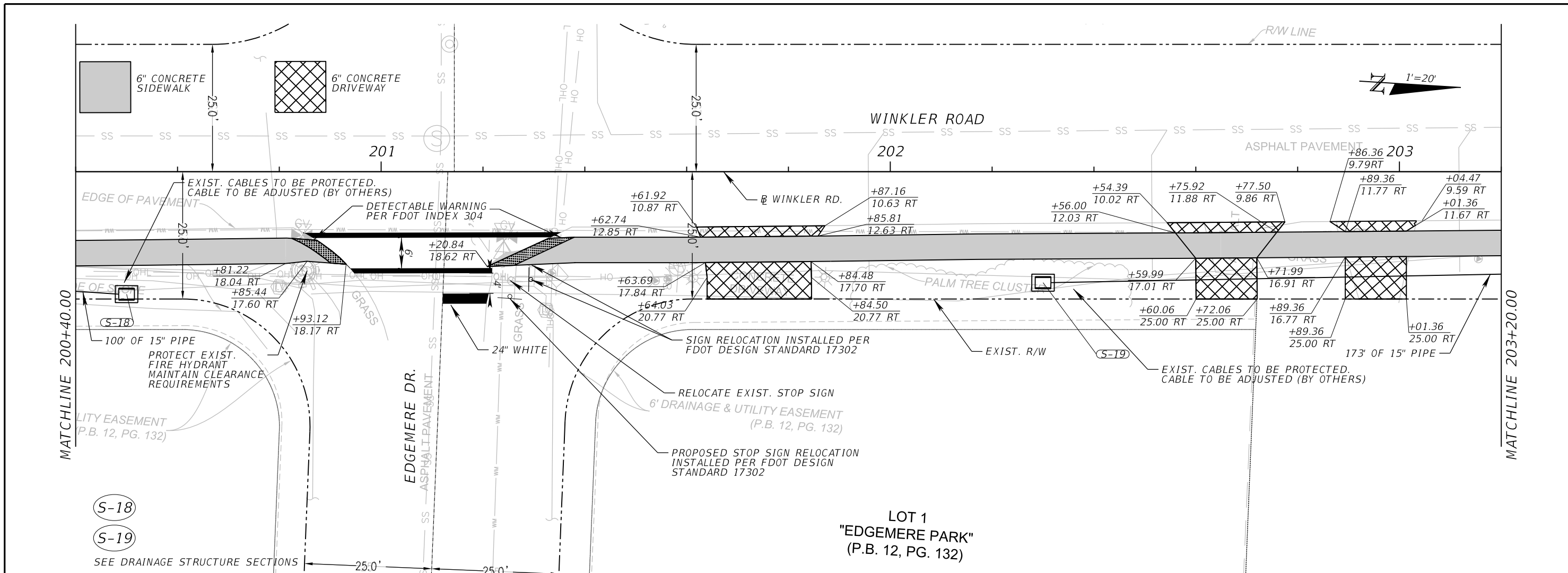
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WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
PLAN - PROFILE (22)**

SHEET NO.  
32





REVISIONS	
DATE	DESCRIPTION

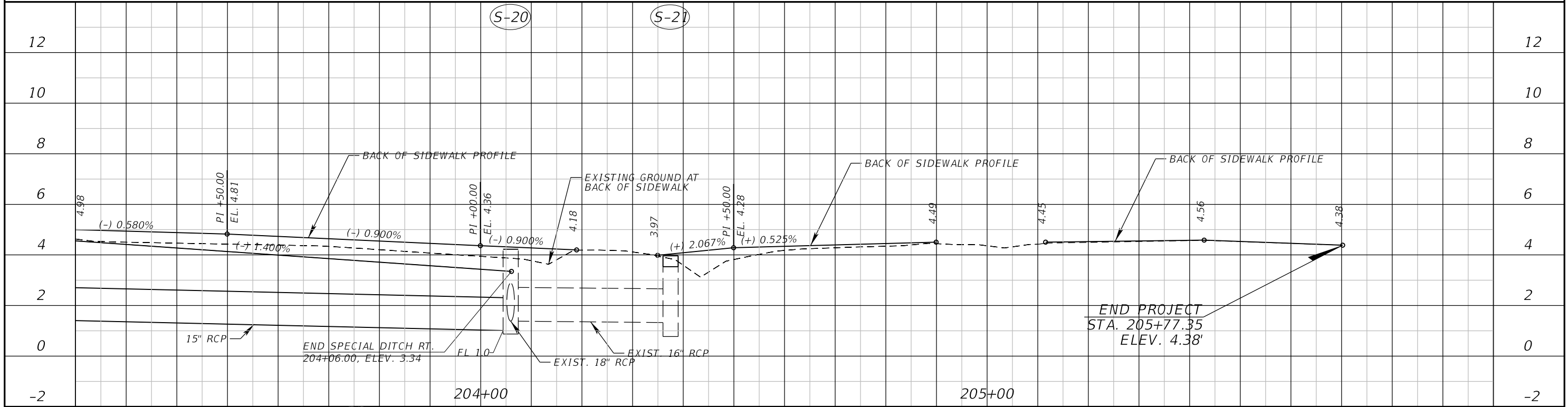
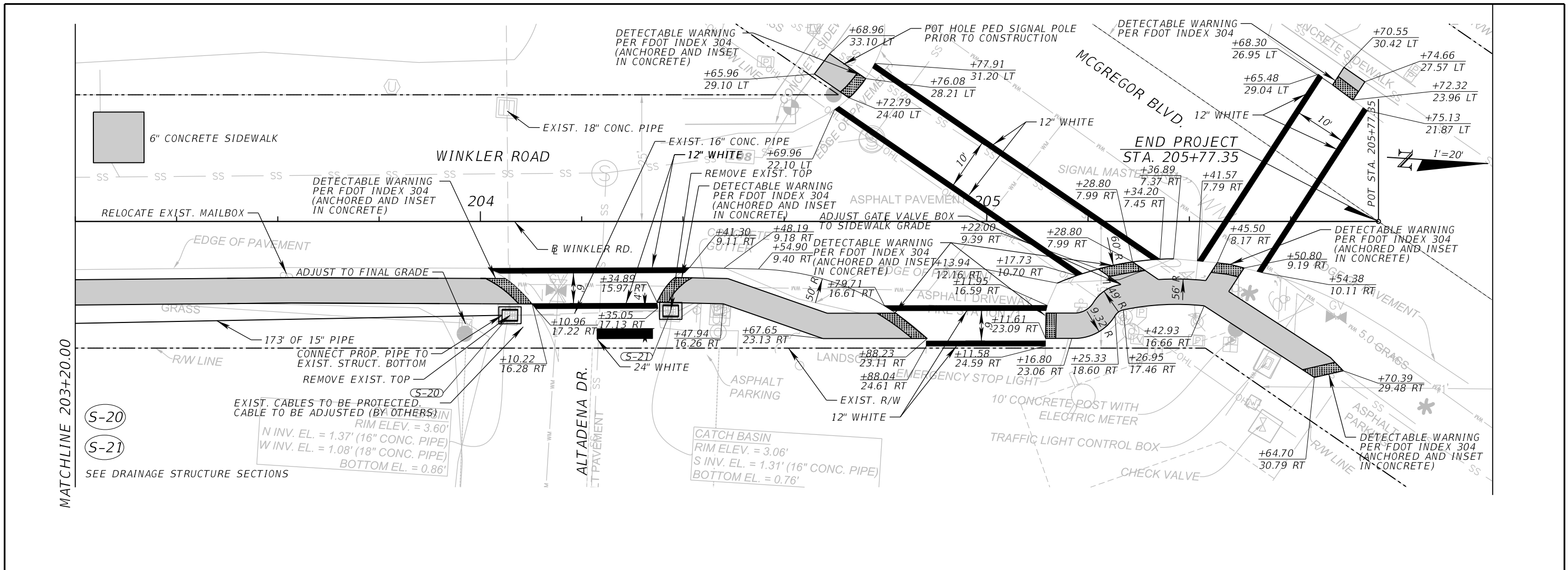


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WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
 PLAN - PROFILE (23)**

SHEET NO.  
**33**



REVISIONS	
DATE	DESCRIPTION

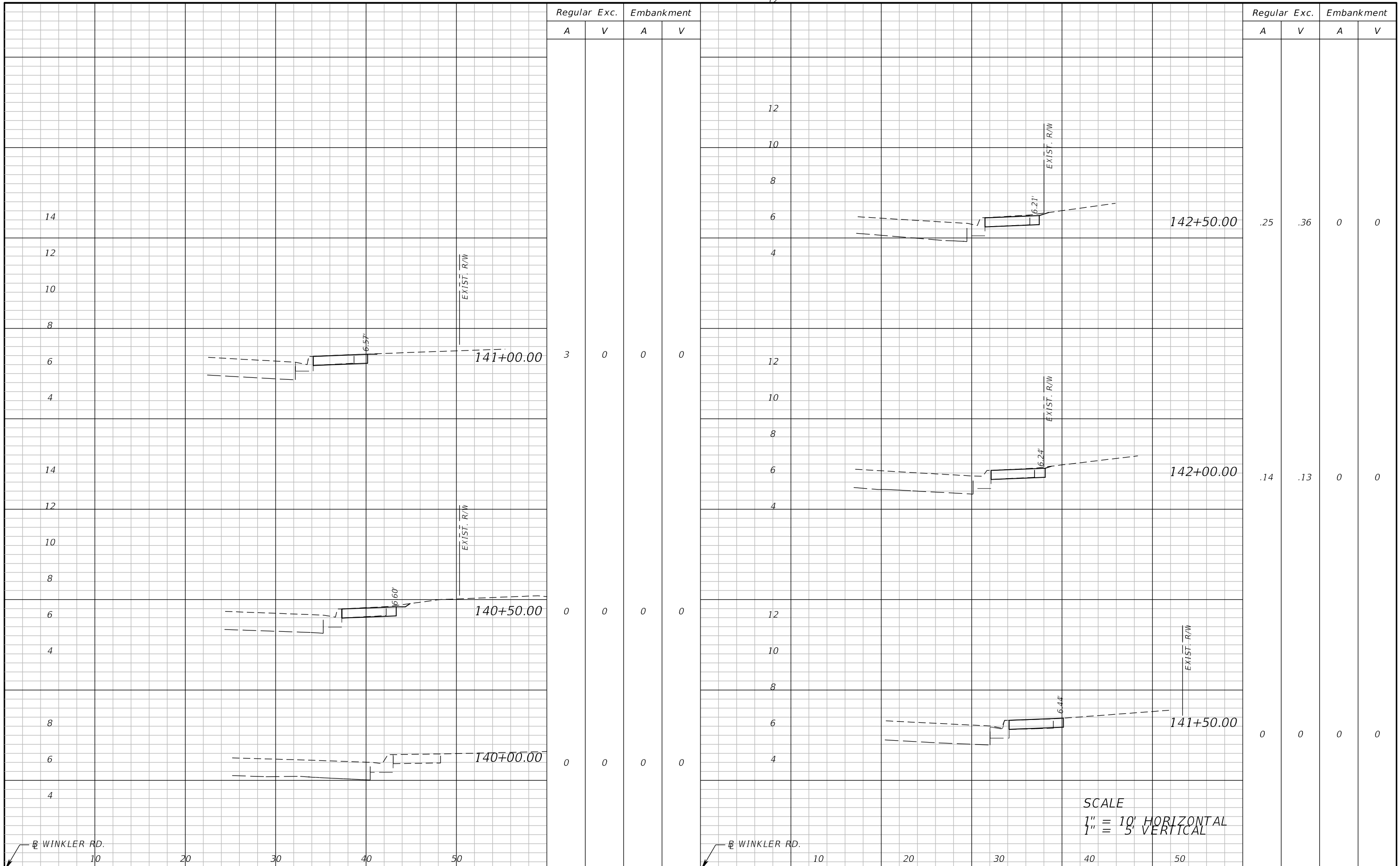


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ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**WINKLER ROAD SIDEWALK  
PLAN - PROFILE (24)**

SHEET NO.  
34



Regular Exc. Embankment

Regular Exc. Embankment

A V A V

A V A V

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
3	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
.25	.36	0	0
.14	.13	0	0
0	0	0	0
0	0	0	0

SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

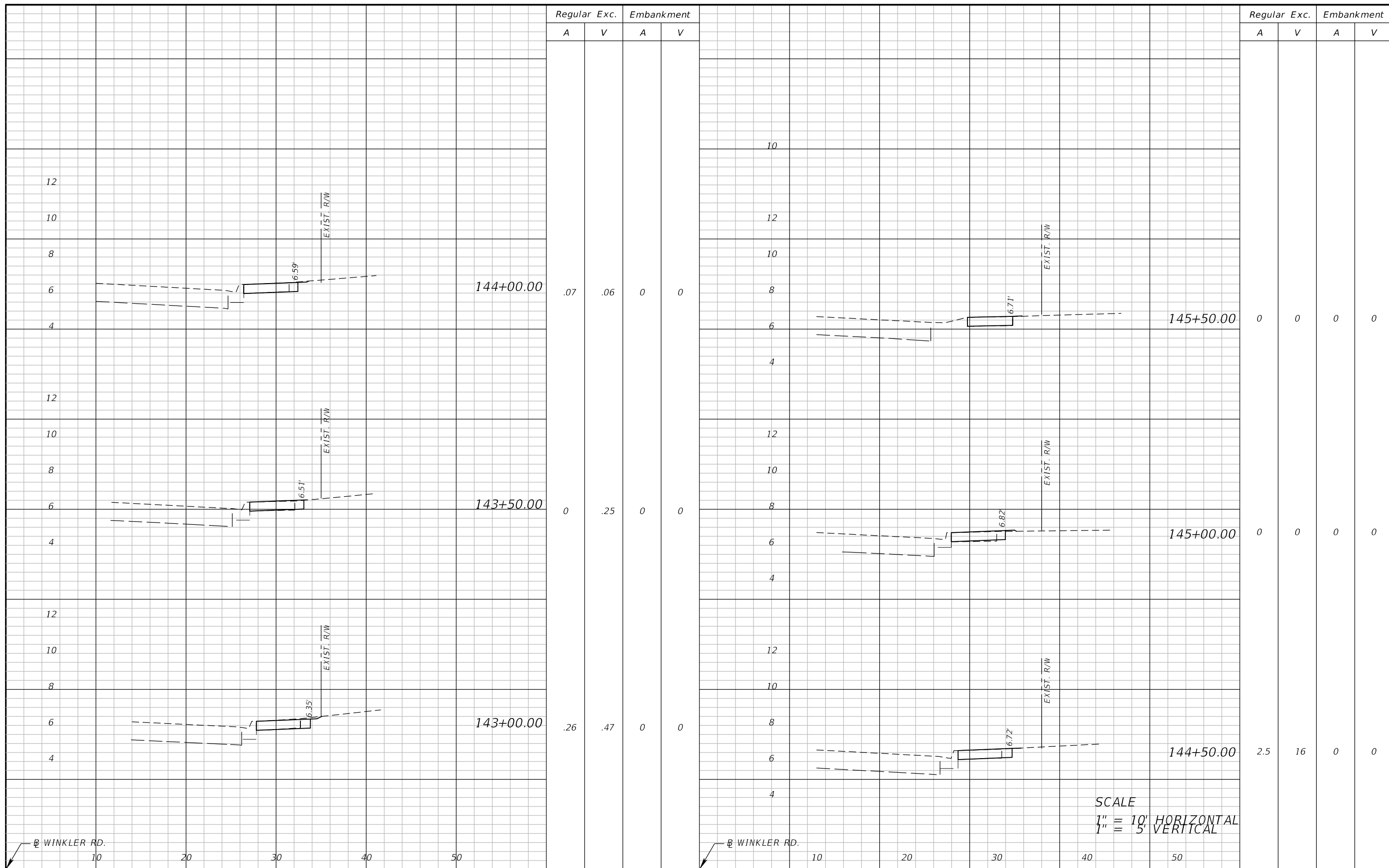


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
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WINKLER RD.	LEE	6974

**CROSS SECTIONS (1)**

SHEET NO.  
 35



REVISIONS	
DATE	DESCRIPTION

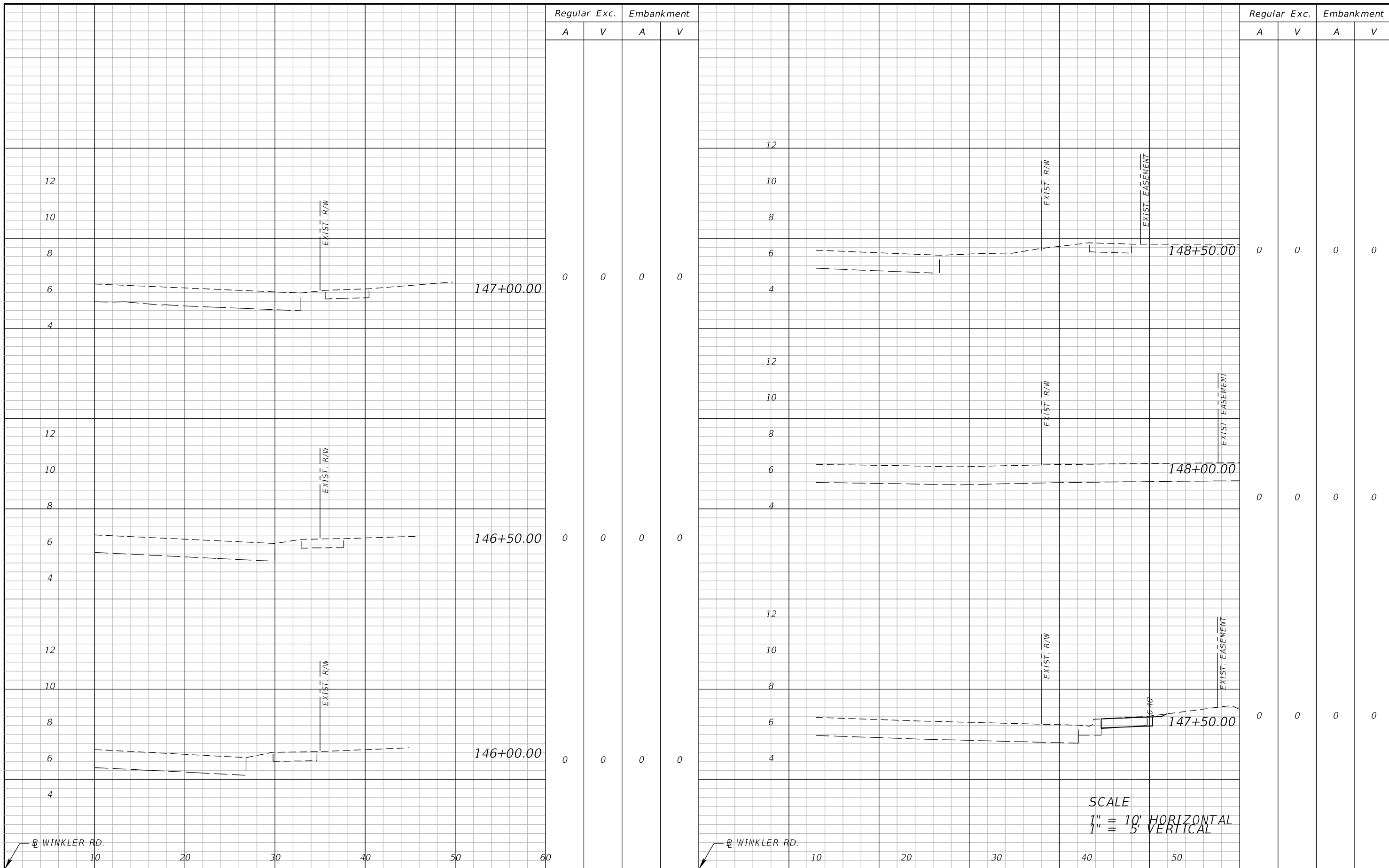


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (2)**

SHEET NO.  
**36**



Regular Exc.		Embankment	
A	V	A	V

Regular Exc.		Embankment	
A	V	A	V

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

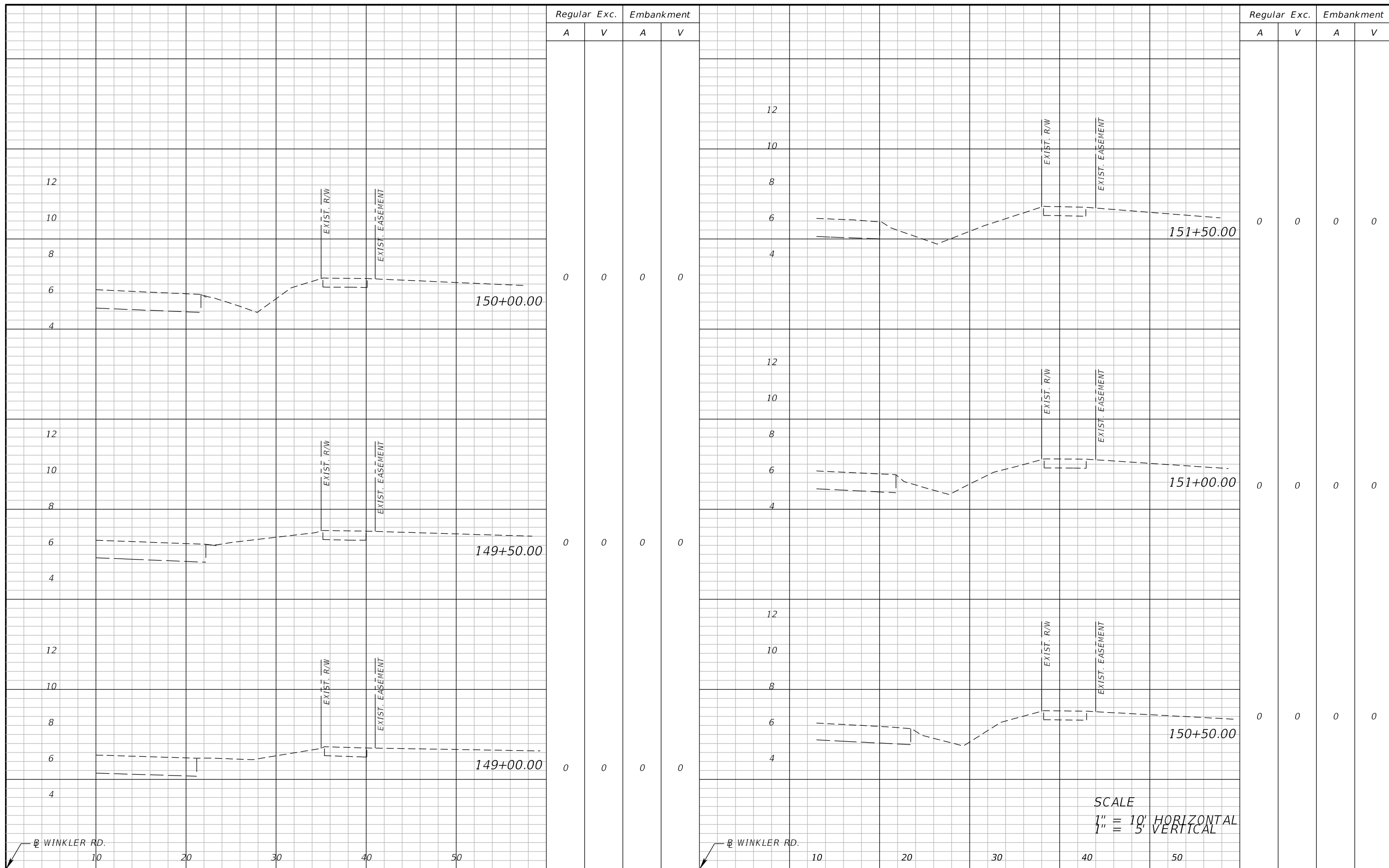


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (3)**

SHEET NO.  
**37**



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

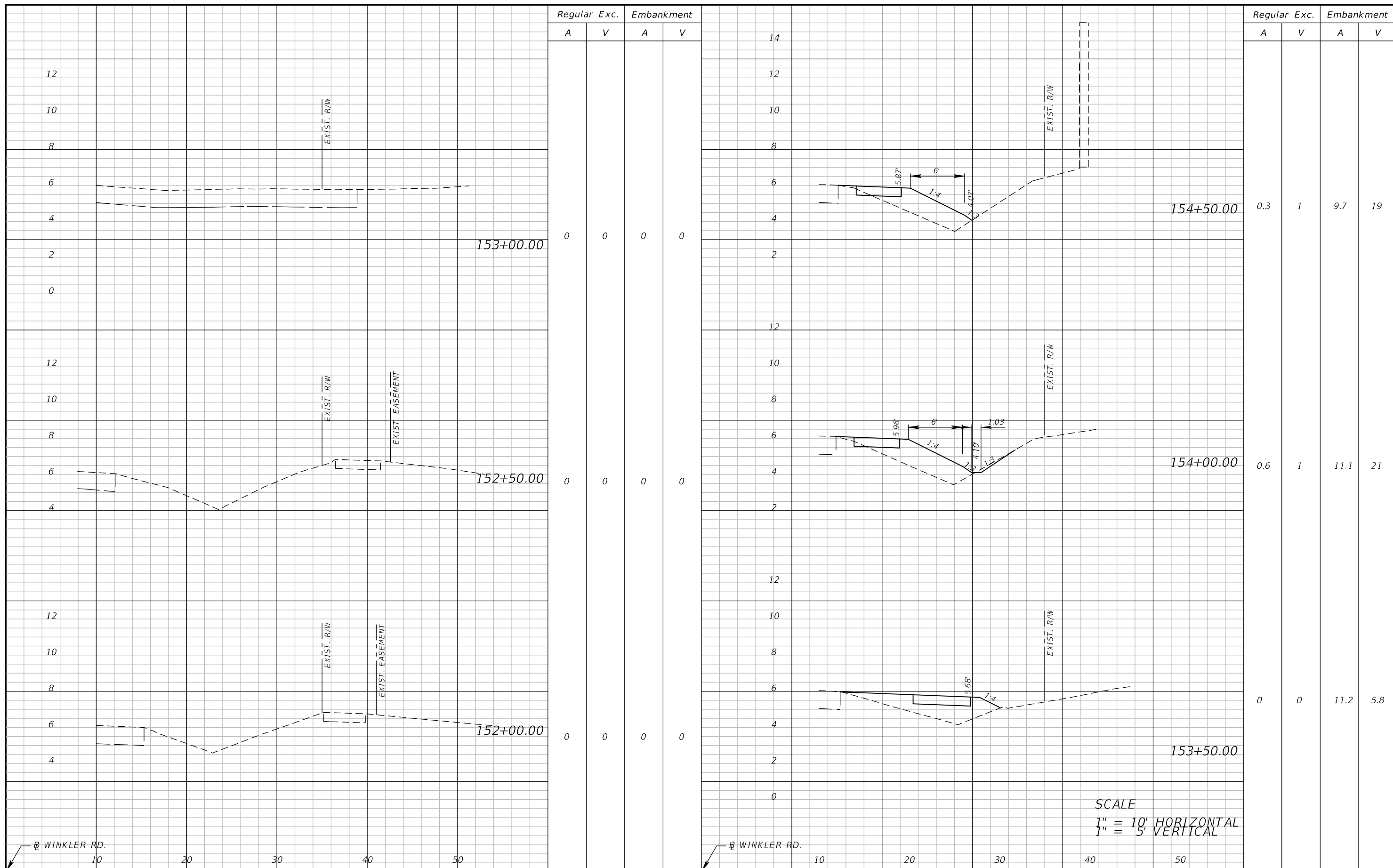


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (4)**

SHEET NO.  
**38**



Regular Exc. Embankment

Regular Exc. Embankment

A V A V

A V A V

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
0.3	1	9.7	19
0.6	1	11.1	21
0	0	11.2	5.8

SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

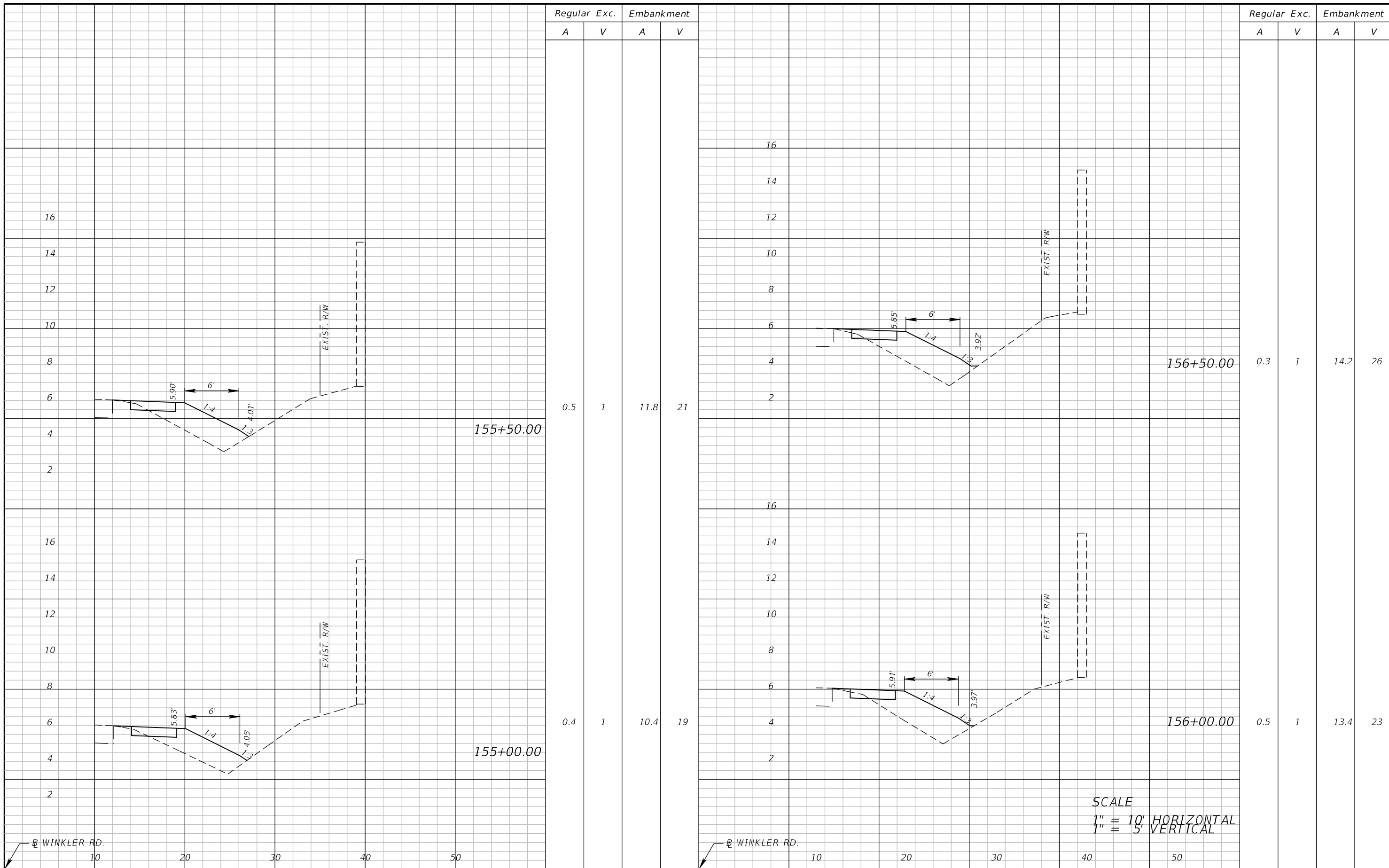


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (5)**

SHEET NO.  
 39



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION



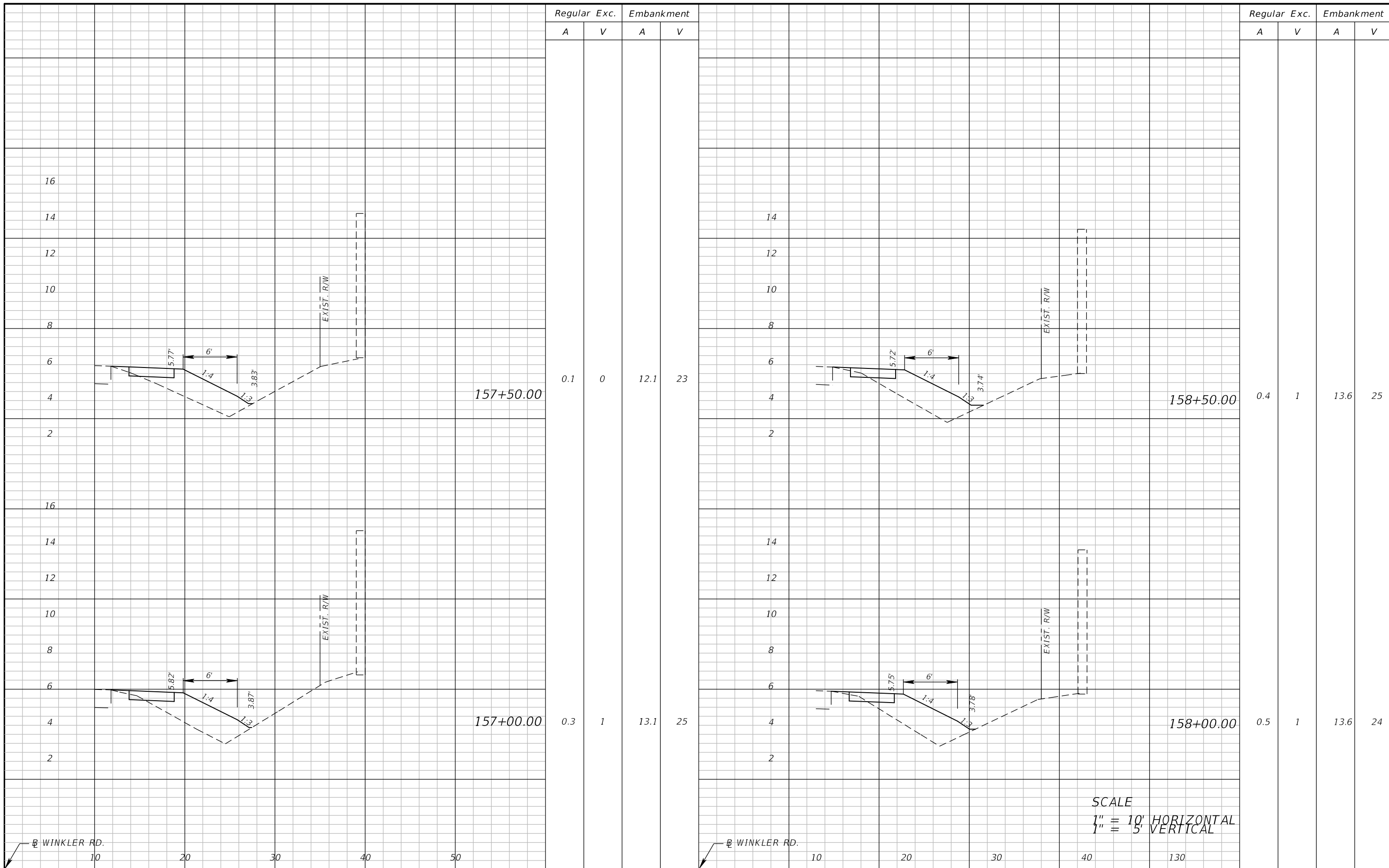
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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (6)**

SHEET NO.  
 40





REVISIONS	
DATE	DESCRIPTION

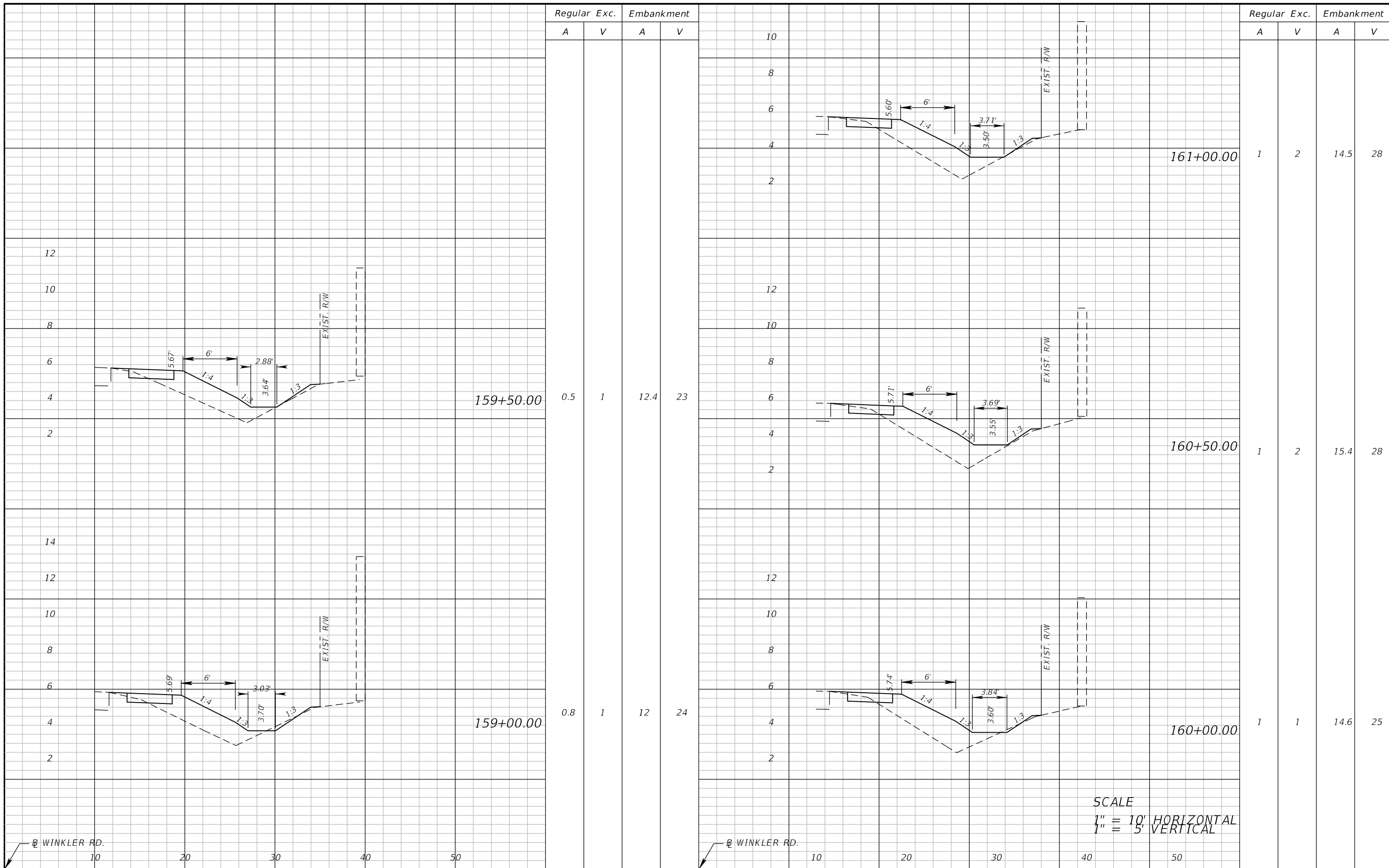


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (7)**

SHEET NO.  
**41**



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

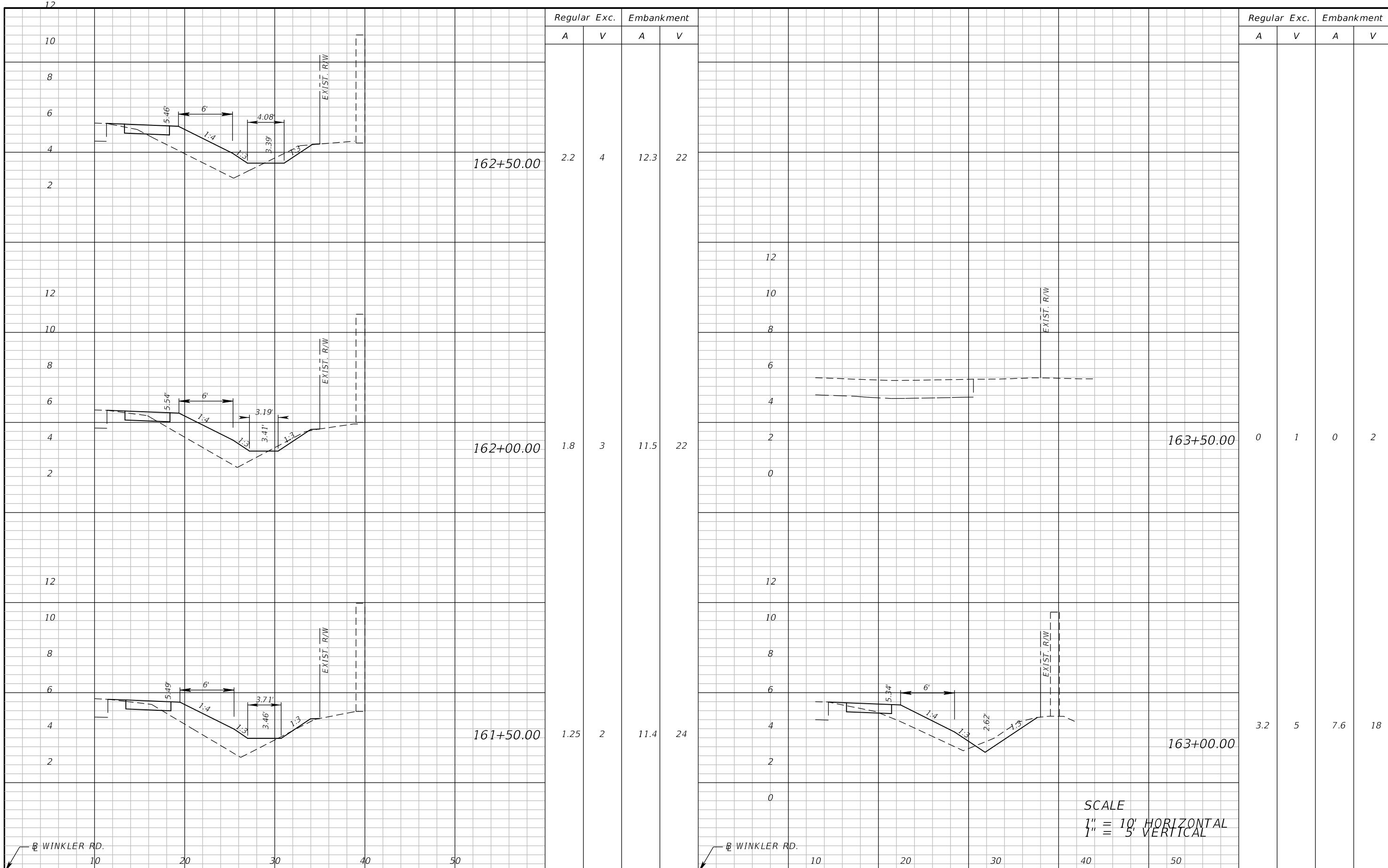


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (8)**

SHEET NO.  
 42



Regular Exc. Embankment

A V A V

Regular Exc. Embankment

A V A V

162+50.00

2.2 4 12.3 22

162+00.00

1.8 3 11.5 22

161+50.00

1.25 2 11.4 24

163+50.00

0 1 0 2

163+00.00

3.2 5 7.6 18

SCALE  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

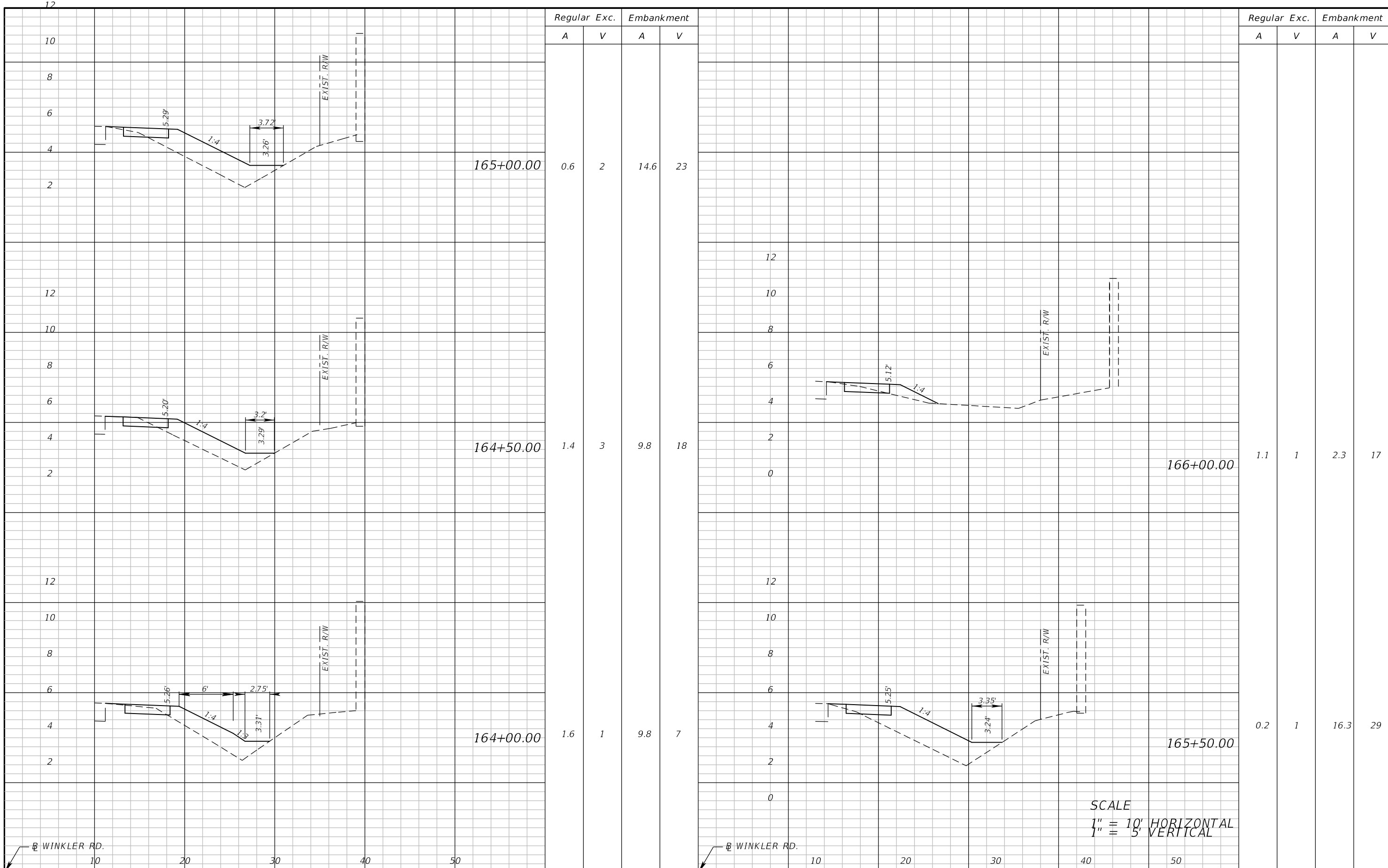


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (9)**

SHEET NO.  
43



Regular Exc. Embankment

A V A V

Regular Exc. Embankment

A V A V

165+00.00

0.6 2 14.6 23

164+50.00

1.4 3 9.8 18

164+00.00

1.6 1 9.8 7

166+00.00

1.1 1 2.3 17

165+50.00

0.2 1 16.3 29

SCALE  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

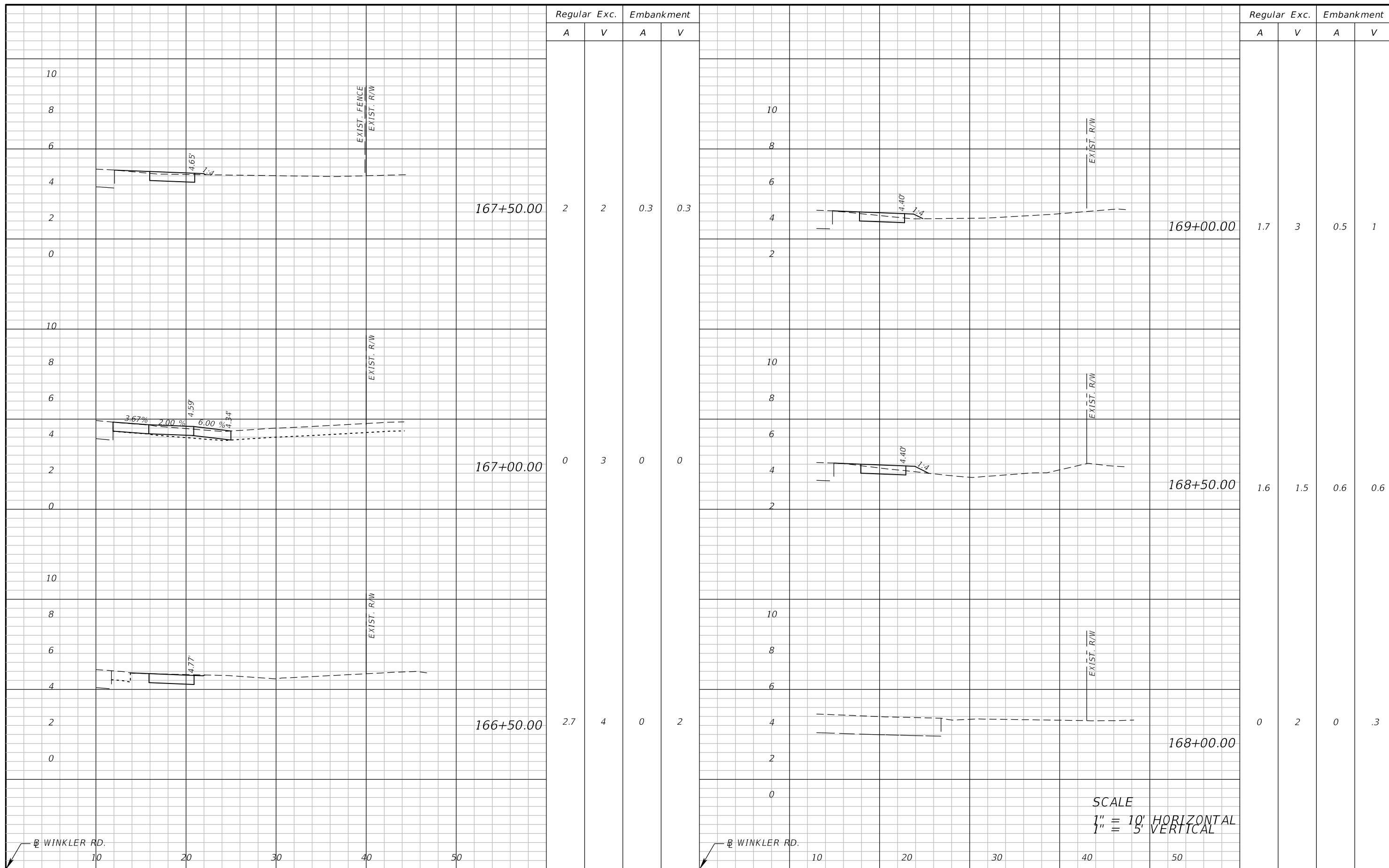


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

CROSS SECTIONS (10)

SHEET NO.  
44



Regular Exc. Embankment  
A V A V

Regular Exc. Embankment  
A V A V

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
2	2	0.3	0.3
0	3	0	0
2.7	4	0	2

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
1.7	3	0.5	1
1.6	1.5	0.6	0.6
0	2	0	.3

REVISIONS	
DATE	DESCRIPTION

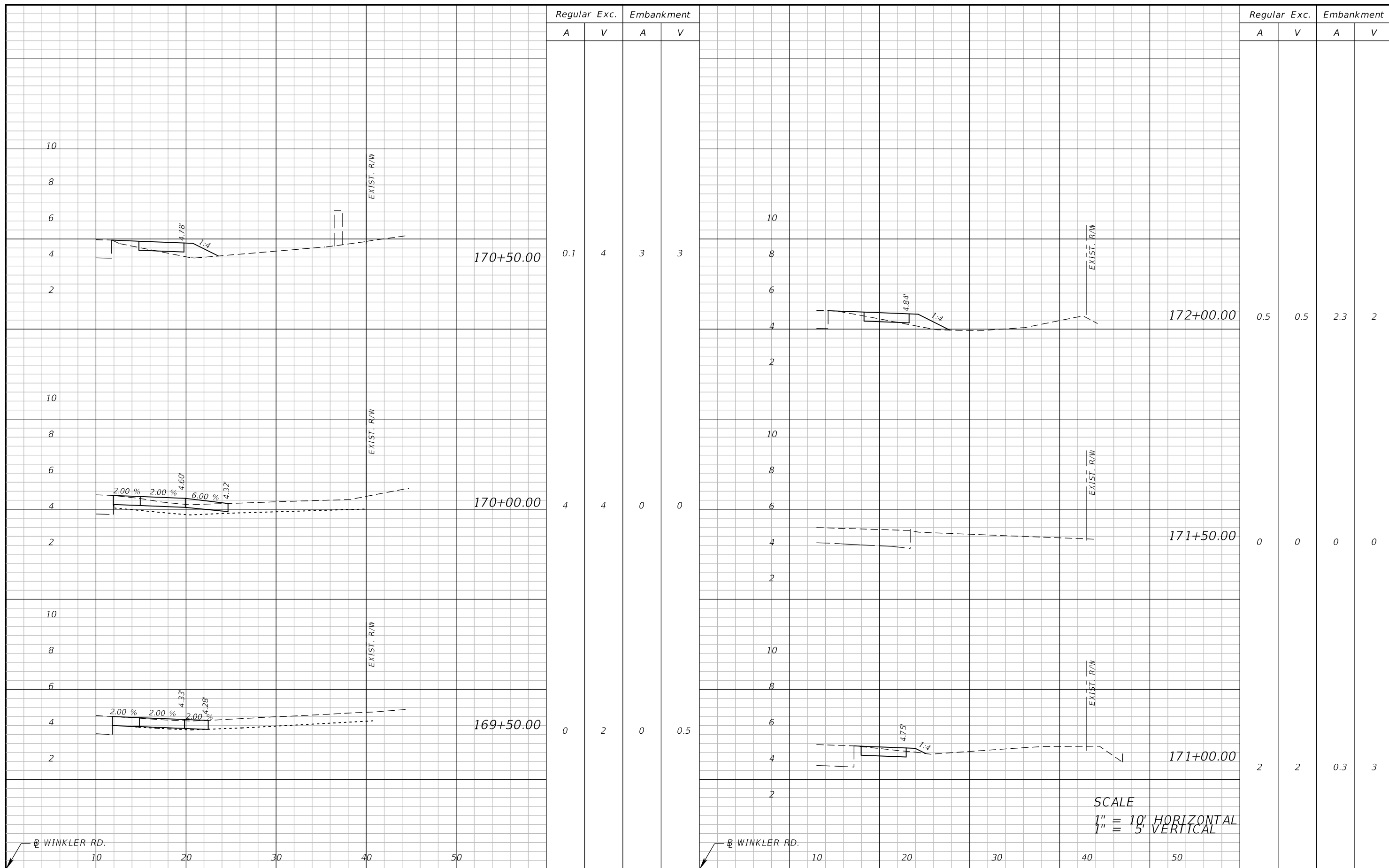


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**CROSS SECTIONS (11)**

SHEET NO.  
45



Regular Exc.		Embankment	
A	V	A	V

Regular Exc.		Embankment	
A	V	A	V

0.1	4	3	3
4	4	0	0
0	2	0	0.5

0.5	0.5	2.3	2
0	0	0	0
2	2	0.3	3

REVISIONS	
DATE	DESCRIPTION

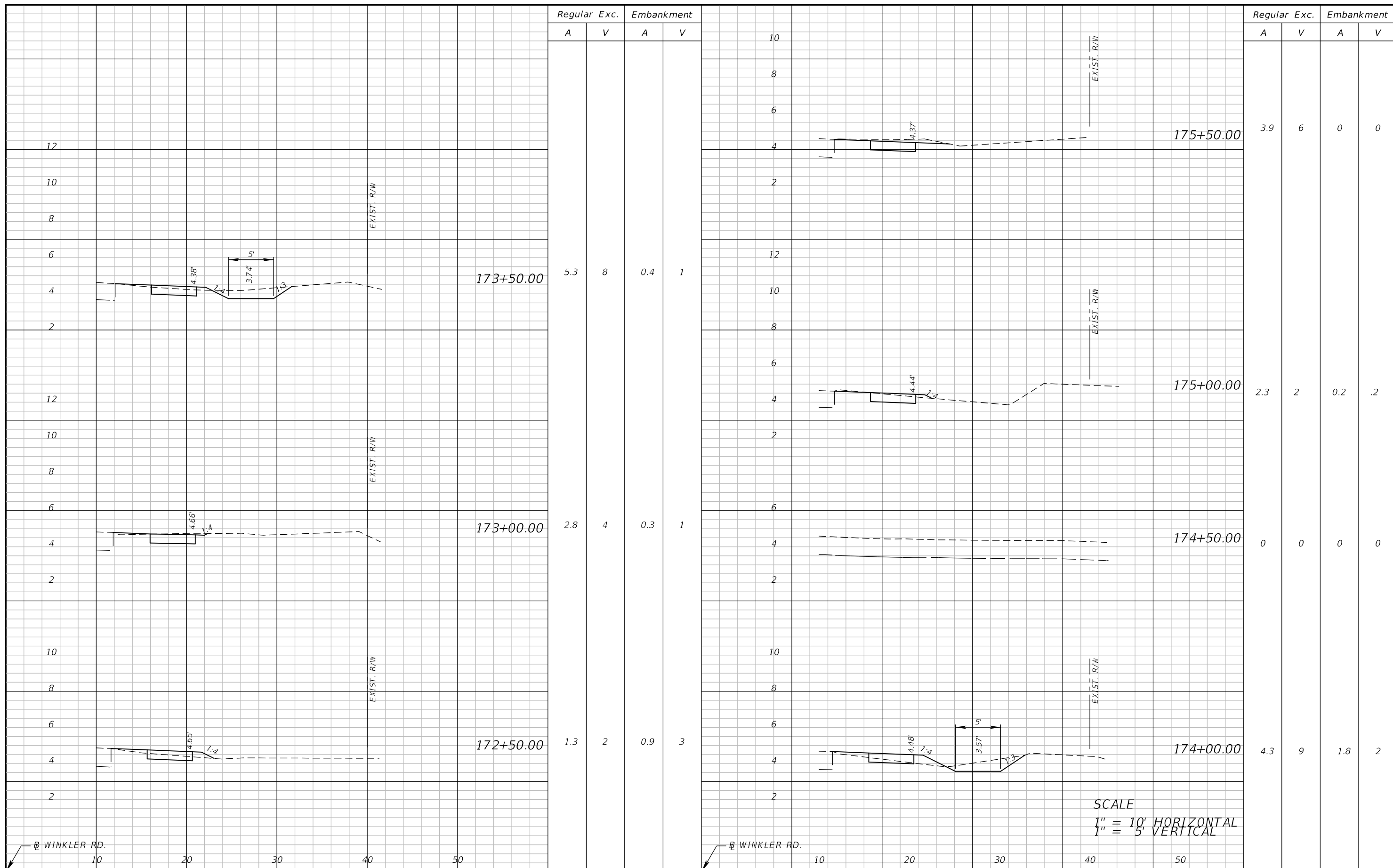


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (12)**

SHEET NO.  
46



Regular Exc. Embankment

Regular Exc. Embankment

A V A V

A V A V

Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
173+50.00	5.3	8	0.4	1
173+00.00	2.8	4	0.3	1
172+50.00	1.3	2	0.9	3
175+50.00	3.9	6	0	0
175+00.00	2.3	2	0.2	.2
174+50.00	0	0	0	0
174+00.00	4.3	9	1.8	2

Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
173+50.00	3.9	6	0	0
173+00.00	2.3	2	0.2	.2
172+50.00	1.3	2	0.9	3
175+50.00	3.9	6	0	0
175+00.00	2.3	2	0.2	.2
174+50.00	0	0	0	0
174+00.00	4.3	9	1.8	2

SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

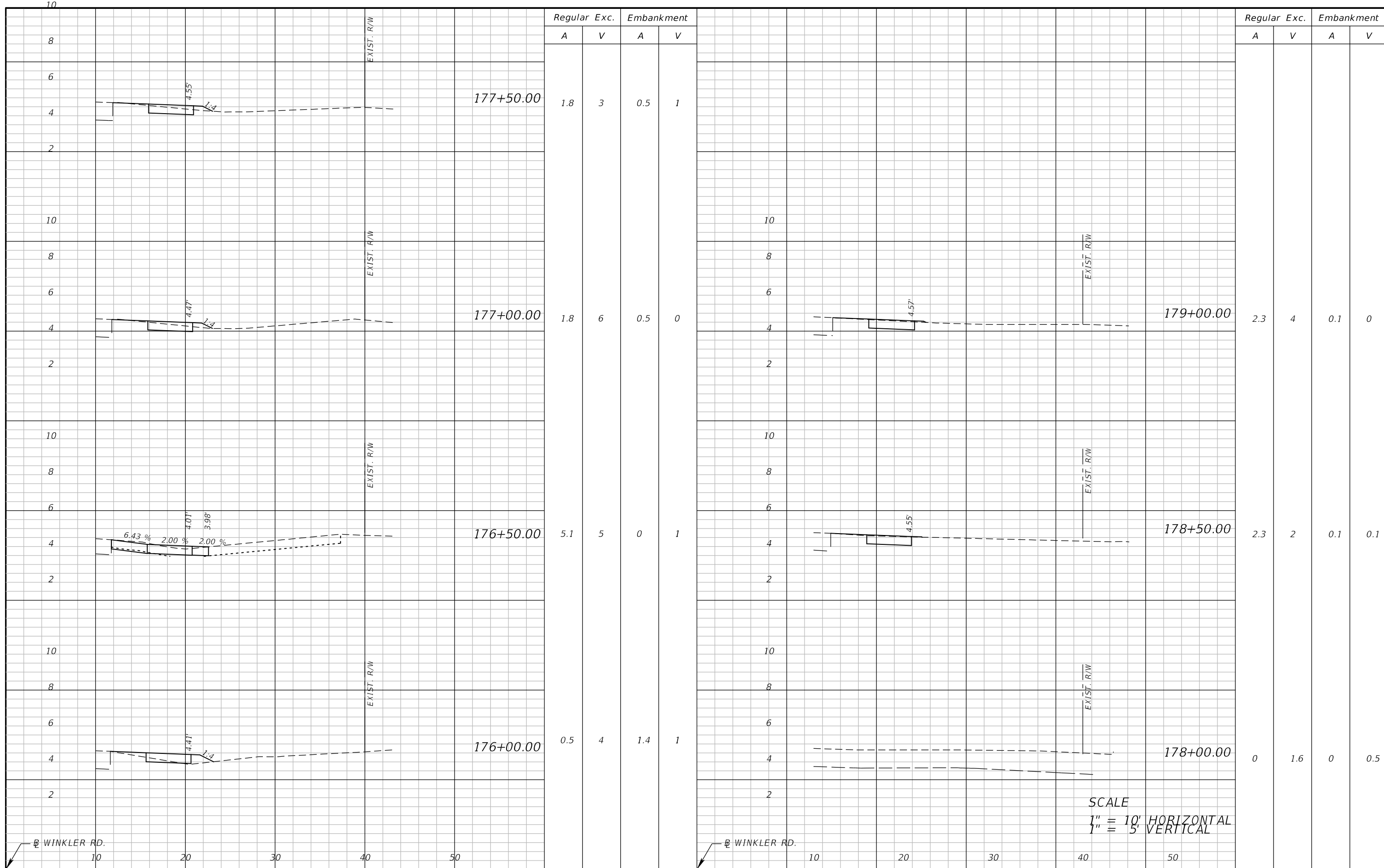


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**CROSS SECTIONS (13)**

SHEET NO.  
**47**



Regular		Exc.		Embankment		Regular		Exc.		Embankment	
A	V	A	V	A	V	A	V	A	V	A	V
1.8	3	0.5	1								
1.8	6	0.5	0			2.3	4	0.1	0		
5.1	5	0	1			2.3	2	0.1	0.1		
0.5	4	1.4	1			0	1.6	0	0.5		

REVISIONS	
DATE	DESCRIPTION



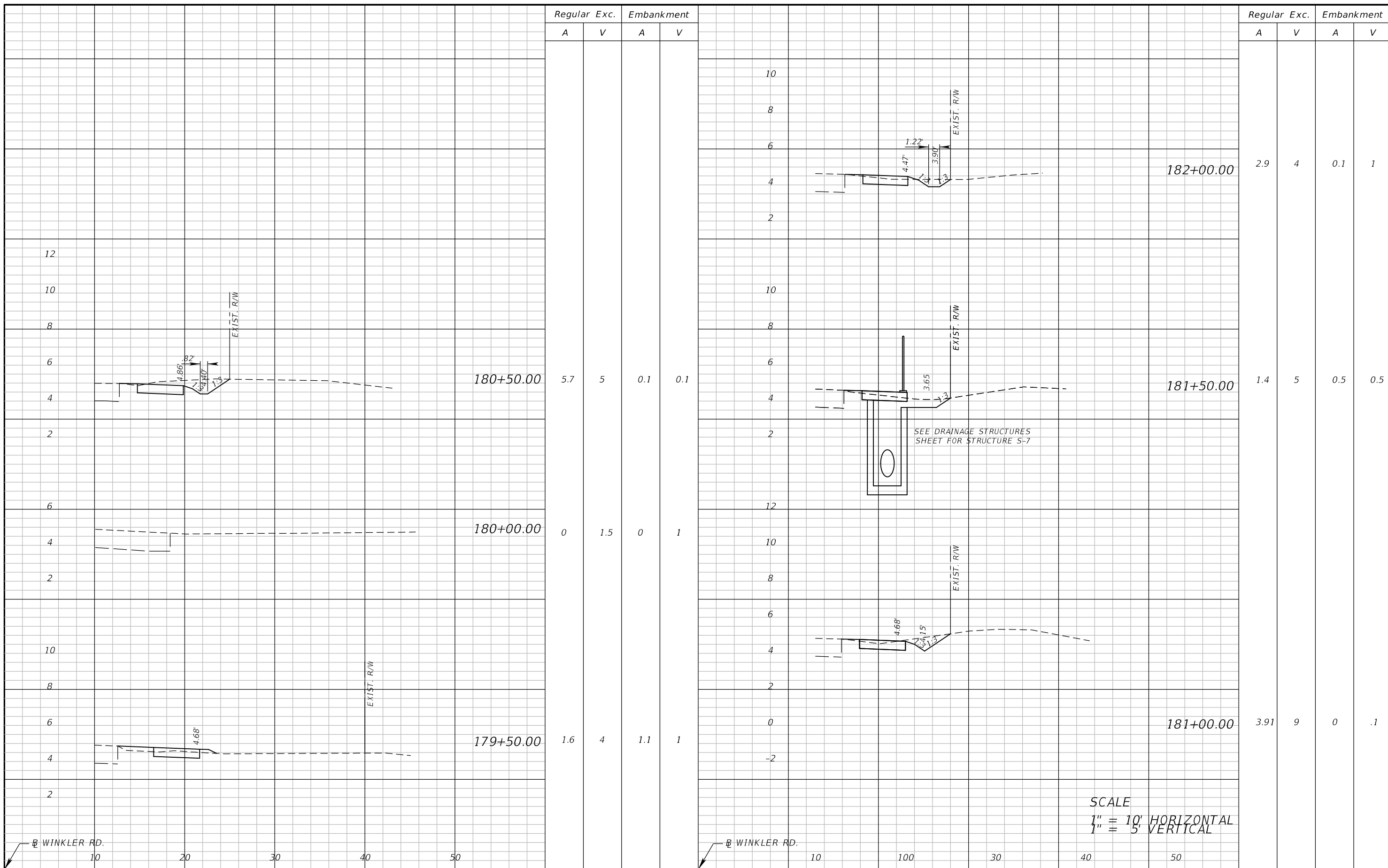
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**CROSS SECTIONS (14)**

SHEET NO.  
48





Regular Exc. Embankment

Regular Exc. Embankment

A V A V

A V A V

180+50.00

180+00.00

179+50.00

182+00.00

181+50.00

181+00.00

5.7 5 0.1 0.1

0 1.5 0 1

1.6 4 1.1 1

2.9 4 0.1 1

1.4 5 0.5 0.5

3.91 9 0 .1

SCALE  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

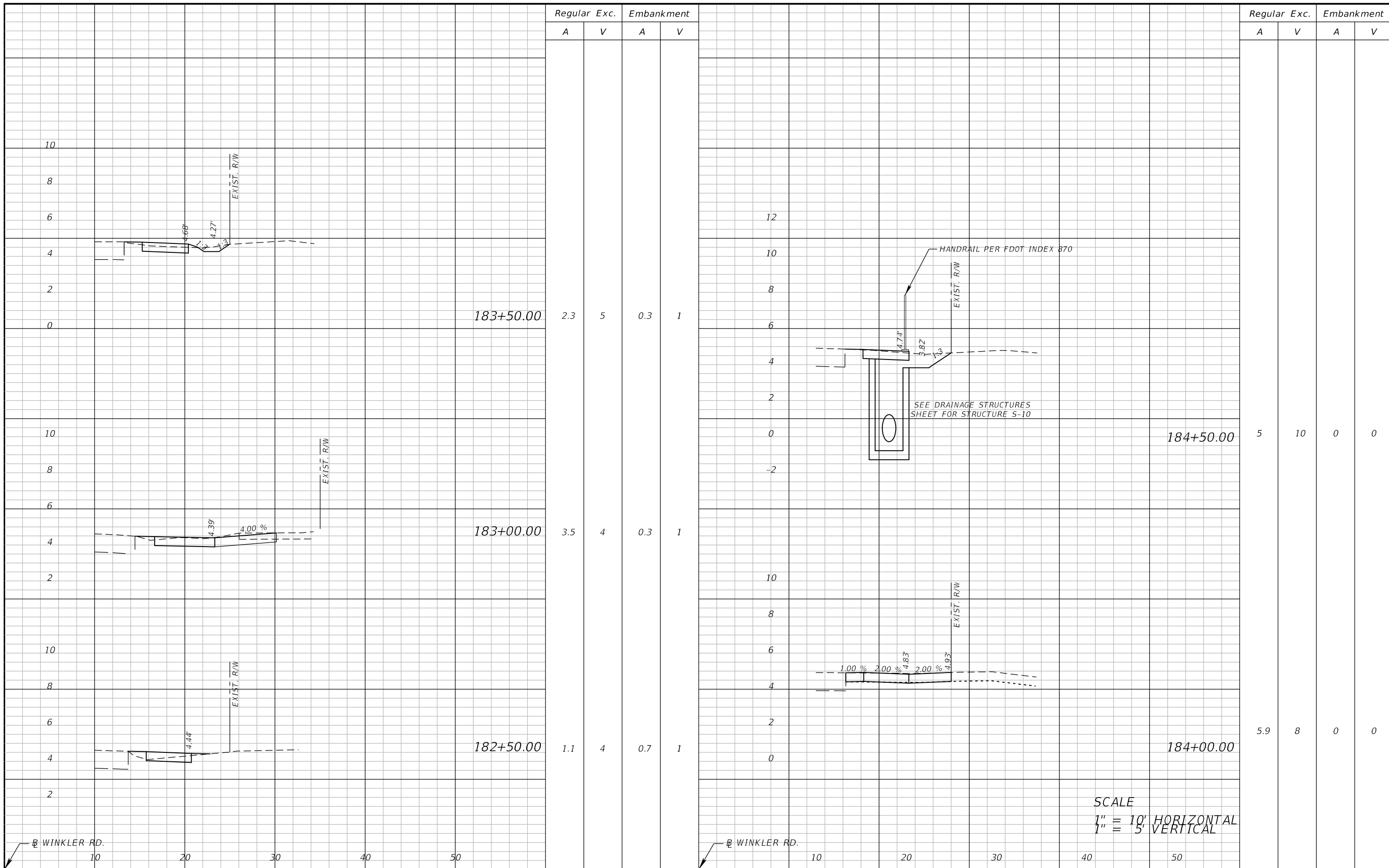


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Adrienne A. Wisdom, P.E. 78492

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (15)**

SHEET NO.  
49



Regular Exc.		Embankment	
A	V	A	V

Regular Exc.		Embankment	
A	V	A	V

2.3	5	0.3	1
3.5	4	0.3	1
1.1	4	0.7	1

5	10	0	0
5.9	8	0	0

REVISIONS	
DATE	DESCRIPTION

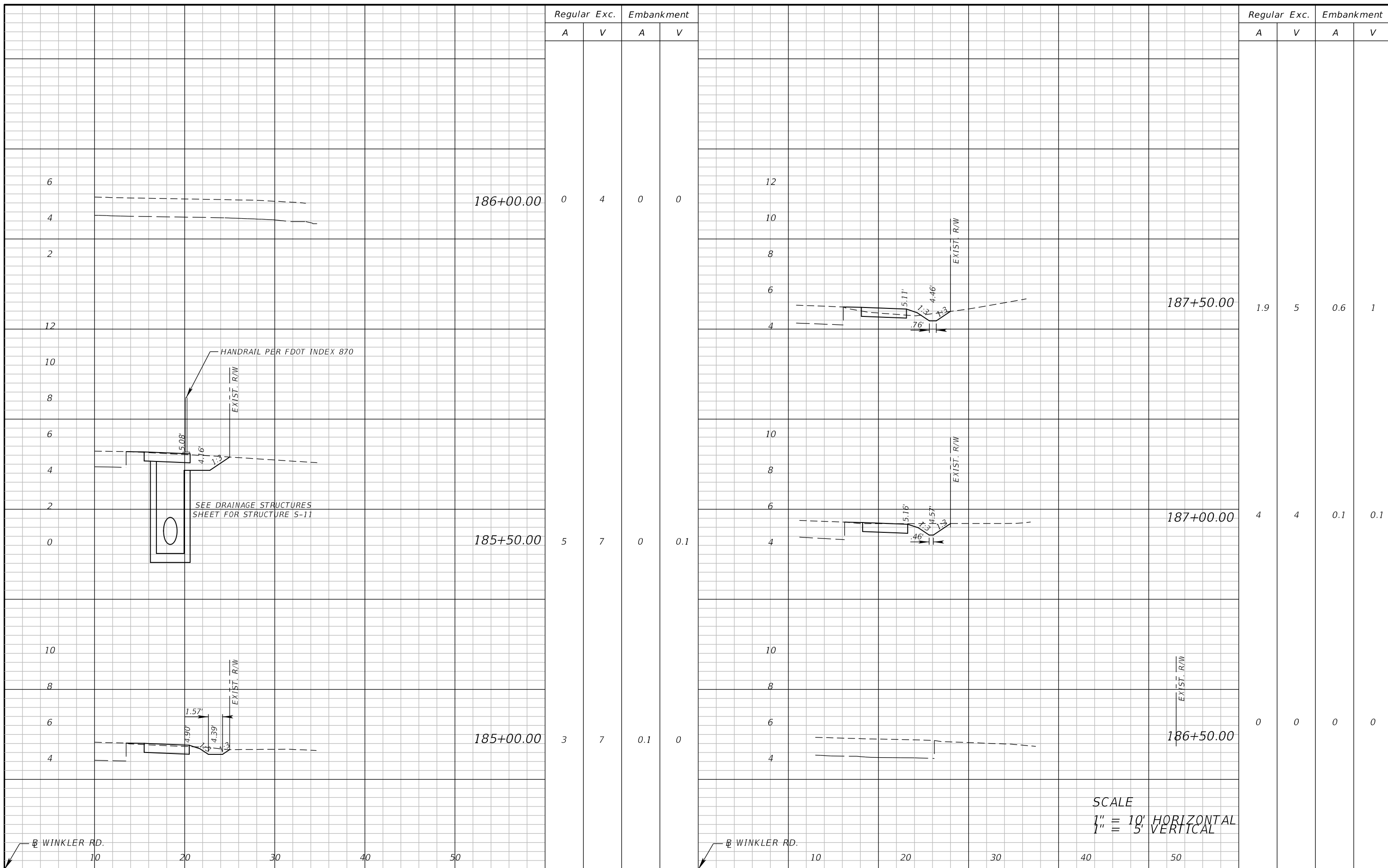


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**CROSS SECTIONS (16)**

SHEET NO.  
50



Regular Exc.		Embankment	
A	V	A	V

Regular Exc.		Embankment	
A	V	A	V

186+00.00	0	4	0	0
185+50.00	5	7	0	0.1
185+00.00	3	7	0.1	0
187+50.00	1.9	5	0.6	1
187+00.00	4	4	0.1	0.1
186+50.00	0	0	0	0

186+00.00	0	0	0	0
186+50.00	0	0	0	0
187+00.00	4	4	0.1	0.1
187+50.00	1.9	5	0.6	1

SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

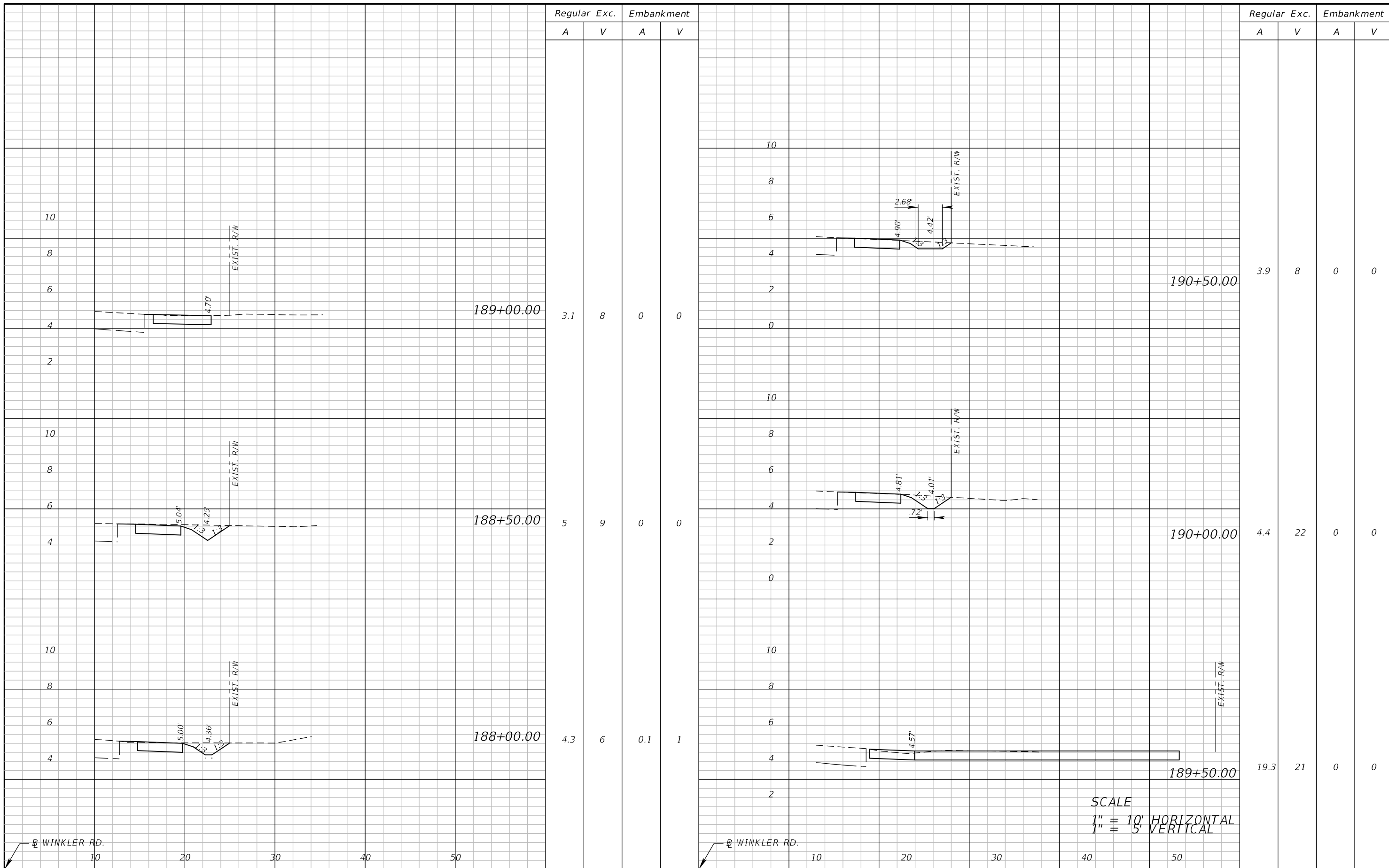


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**CROSS SECTIONS (17)**

SHEET NO.  
 51



REVISIONS	
DATE	DESCRIPTION

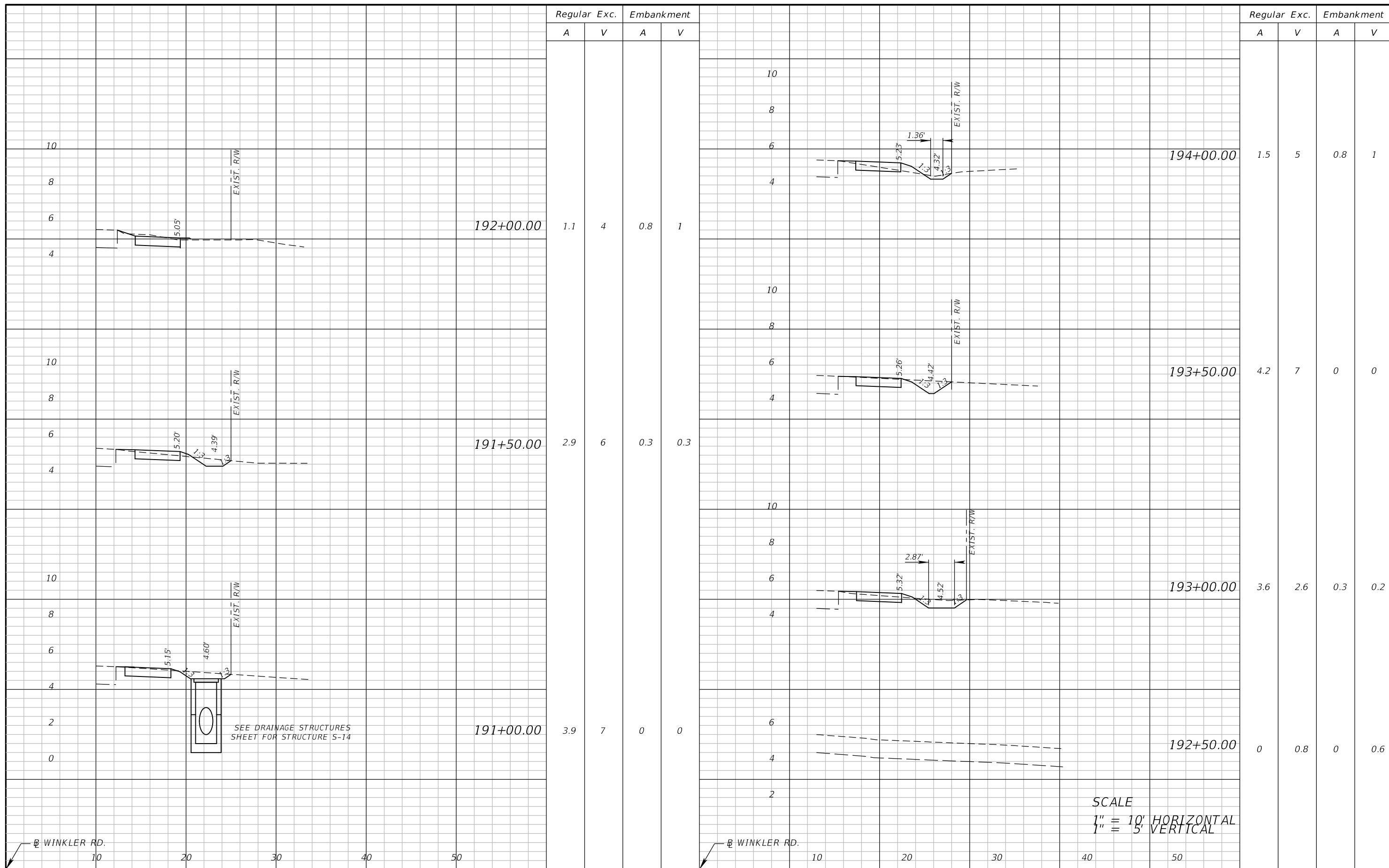


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WINKLER RD.	LEE	6974

**CROSS SECTIONS (18)**

SHEET NO.  
52



Regular Exc.		Embankment	
A	V	A	V

Regular Exc.		Embankment	
A	V	A	V

1.1	4	0.8	1
2.9	6	0.3	0.3
3.9	7	0	0

1.5	5	0.8	1
4.2	7	0	0
3.6	2.6	0.3	0.2
0	0.8	0	0.6

REVISIONS	
DATE	DESCRIPTION

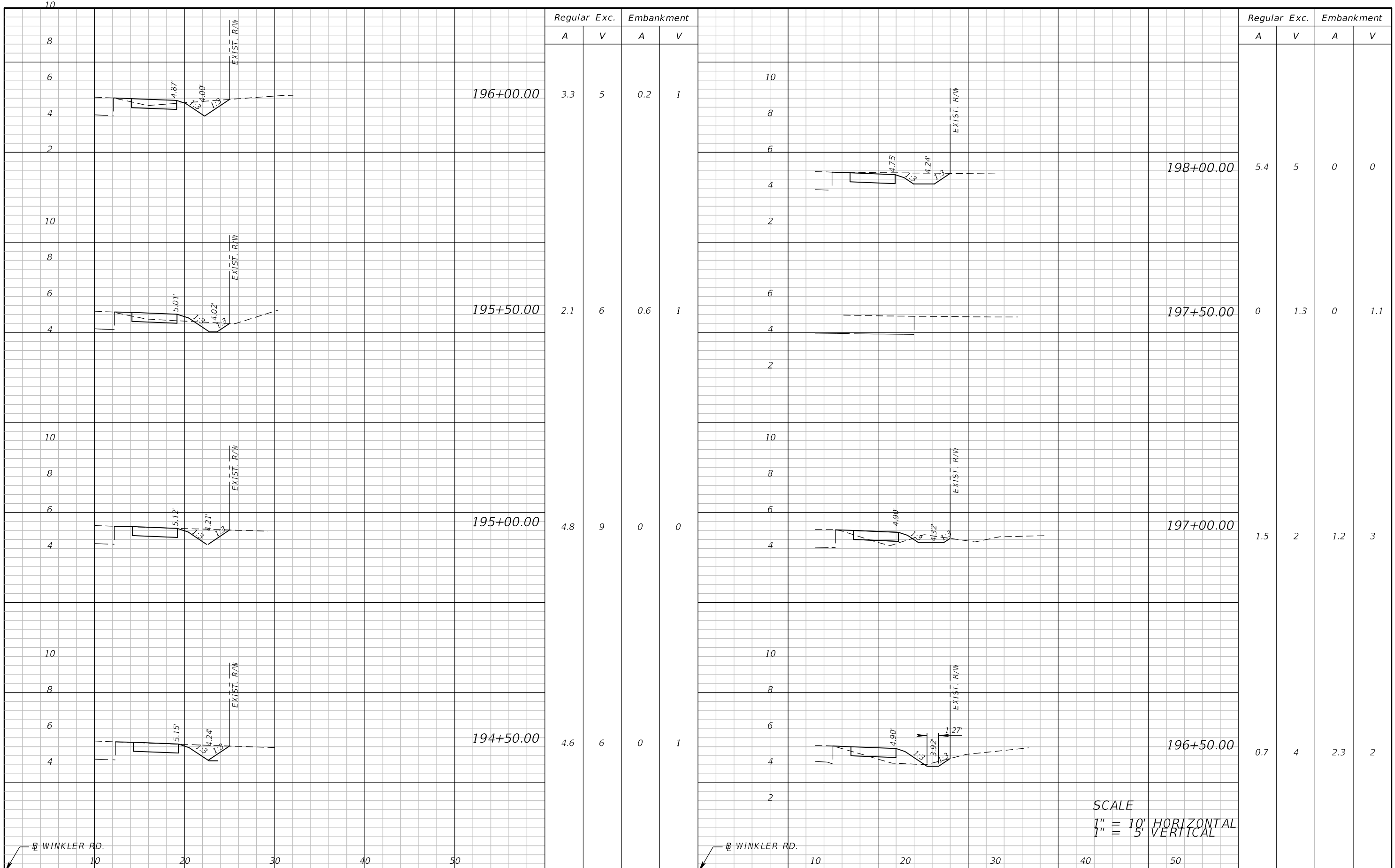


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (19)**

SHEET NO.  
53



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

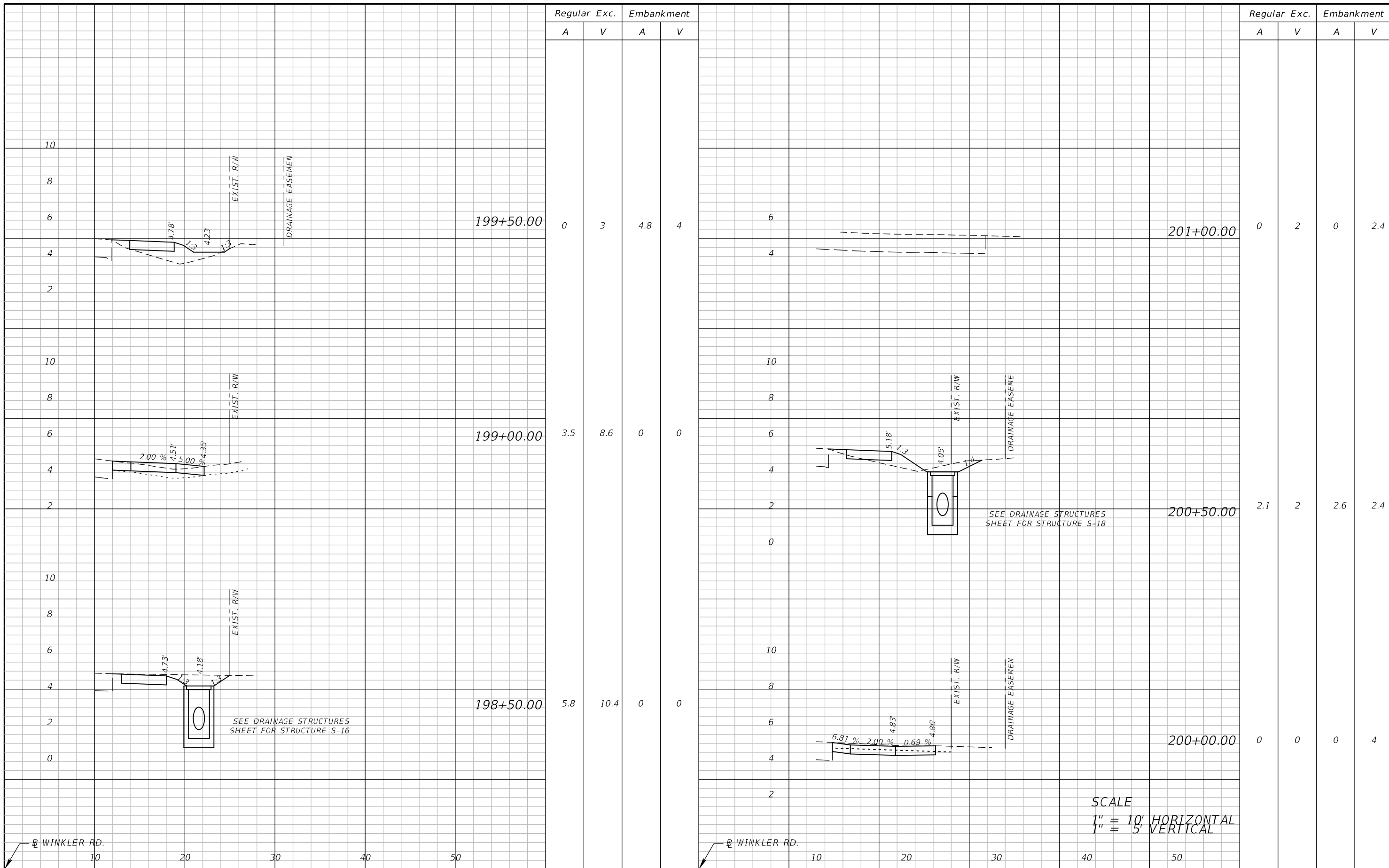


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WINKLER RD.	LEE	6974

**CROSS SECTIONS (20)**

SHEET NO.  
 54



Regular Exc. Embankment

Regular Exc. Embankment

A V A V

A V A V

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
0	3	4.8	4
3.5	8.6	0	0
5.8	10.4	0	0

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
0	2	0	2.4
2.1	2	2.6	2.4
0	0	0	4

SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

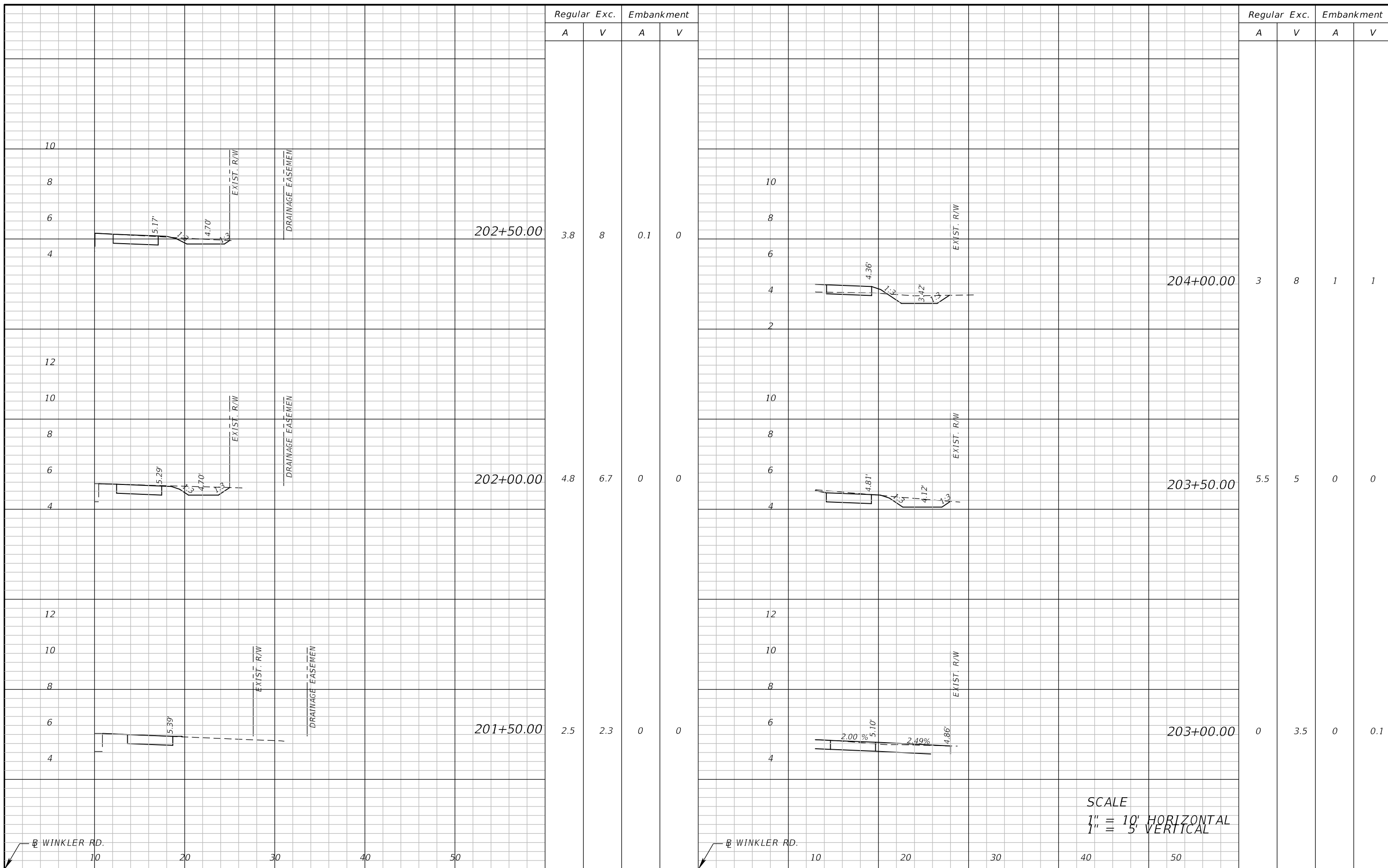


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**CROSS SECTIONS (21)**

SHEET NO.  
55



Regular Exc. Embankment

A V A V

Regular Exc. Embankment

A V A V

3.8	8	0.1	0
4.8	6.7	0	0
2.5	2.3	0	0

3	8	1	1
5.5	5	0	0
0	3.5	0	0.1

SCALE  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION



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ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**CROSS SECTIONS (22)**

SHEET NO.  
56



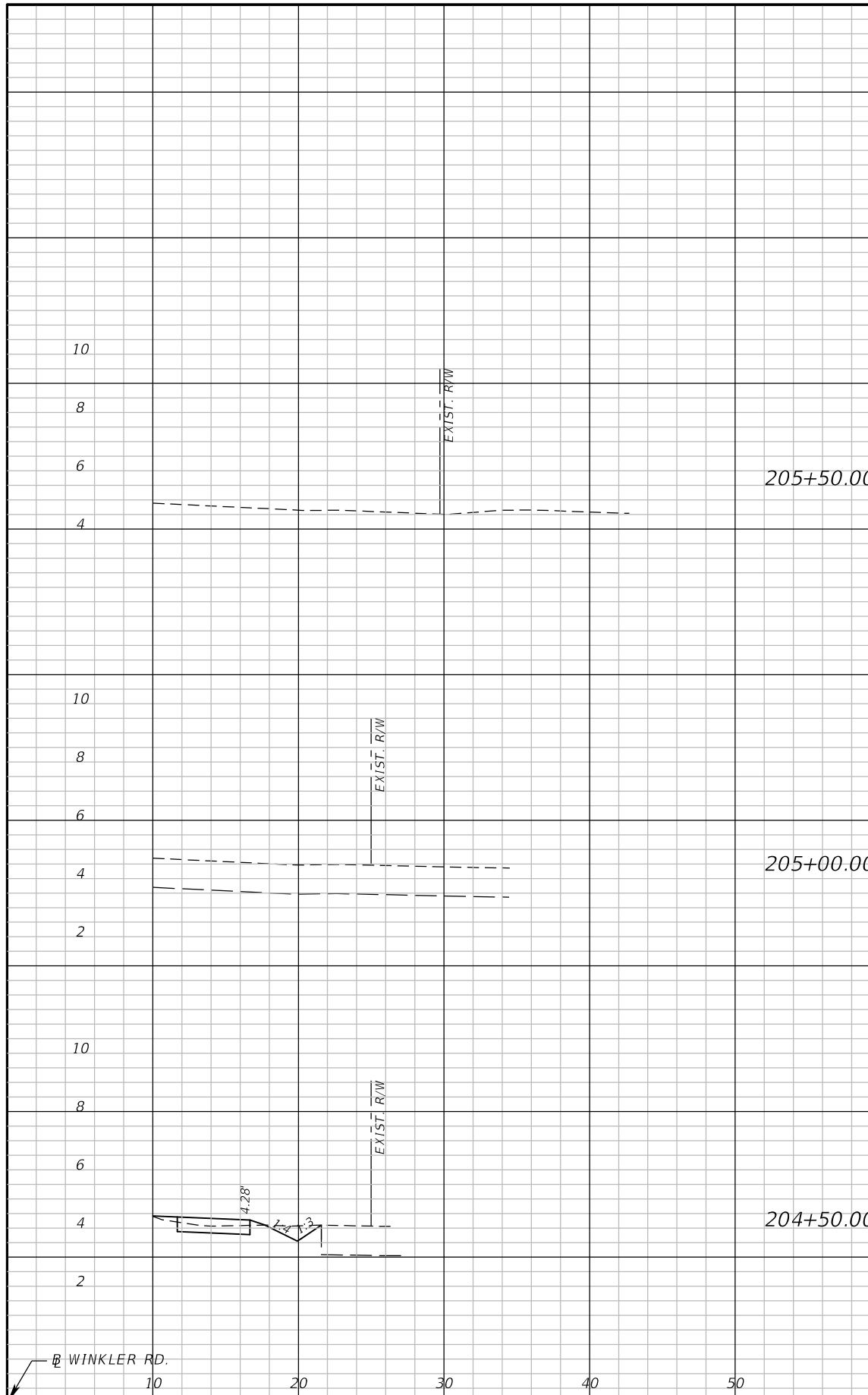
Regular Exc. Embankment

A V A V

Regular Exc. Embankment

A V A V

SUMMARY OF EARTHWORK	
DESCRIPTION	V CU YD
REGULAR EXCAVATION	409.07
EMBANKMENT	593.10



205+50.00	0	0	0	0
205+00.00	0	0	0	0
204+50.00	2.4	5	0.3	1

SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

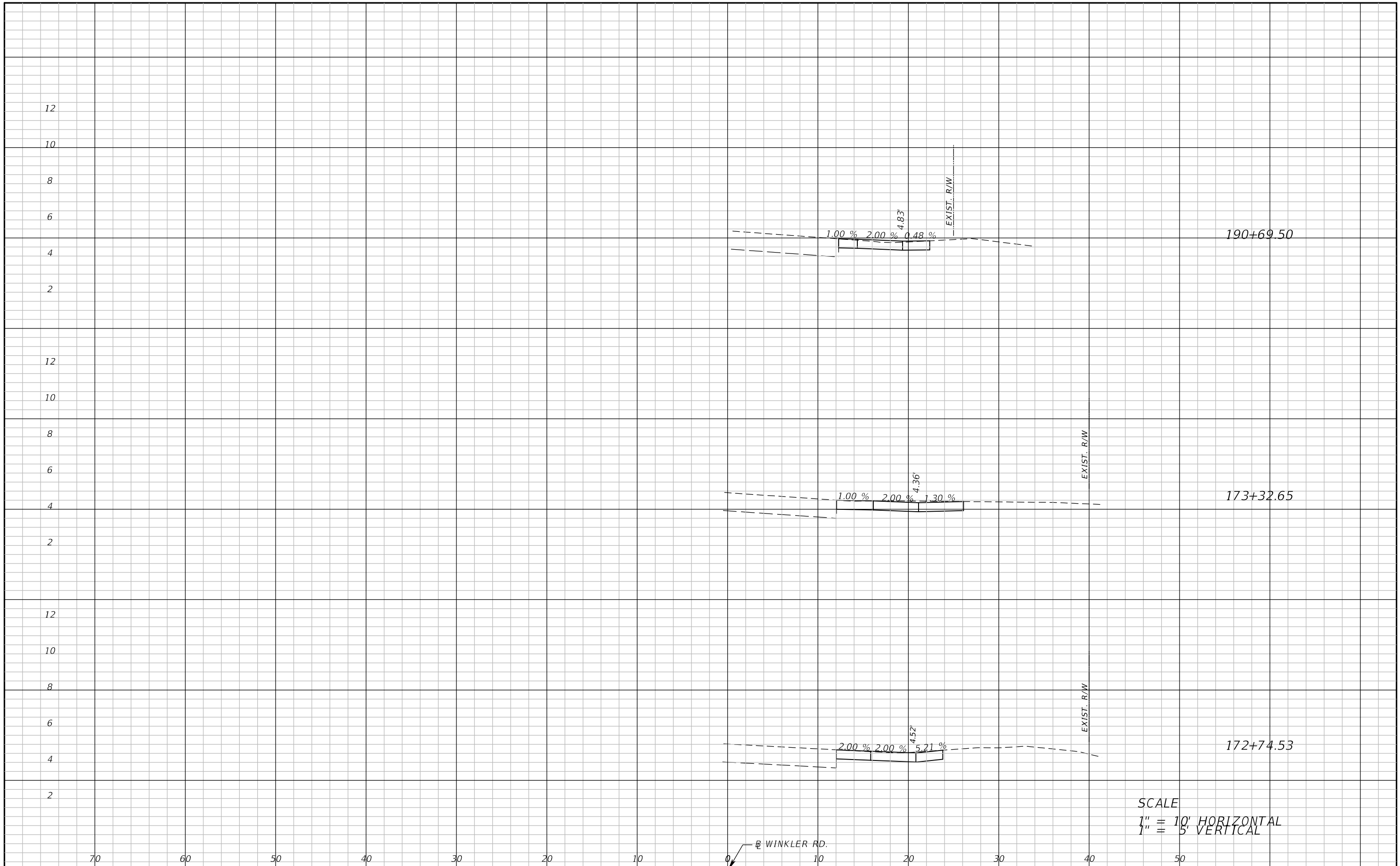


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**CROSS SECTIONS (25)**

SHEET NO.  
57



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

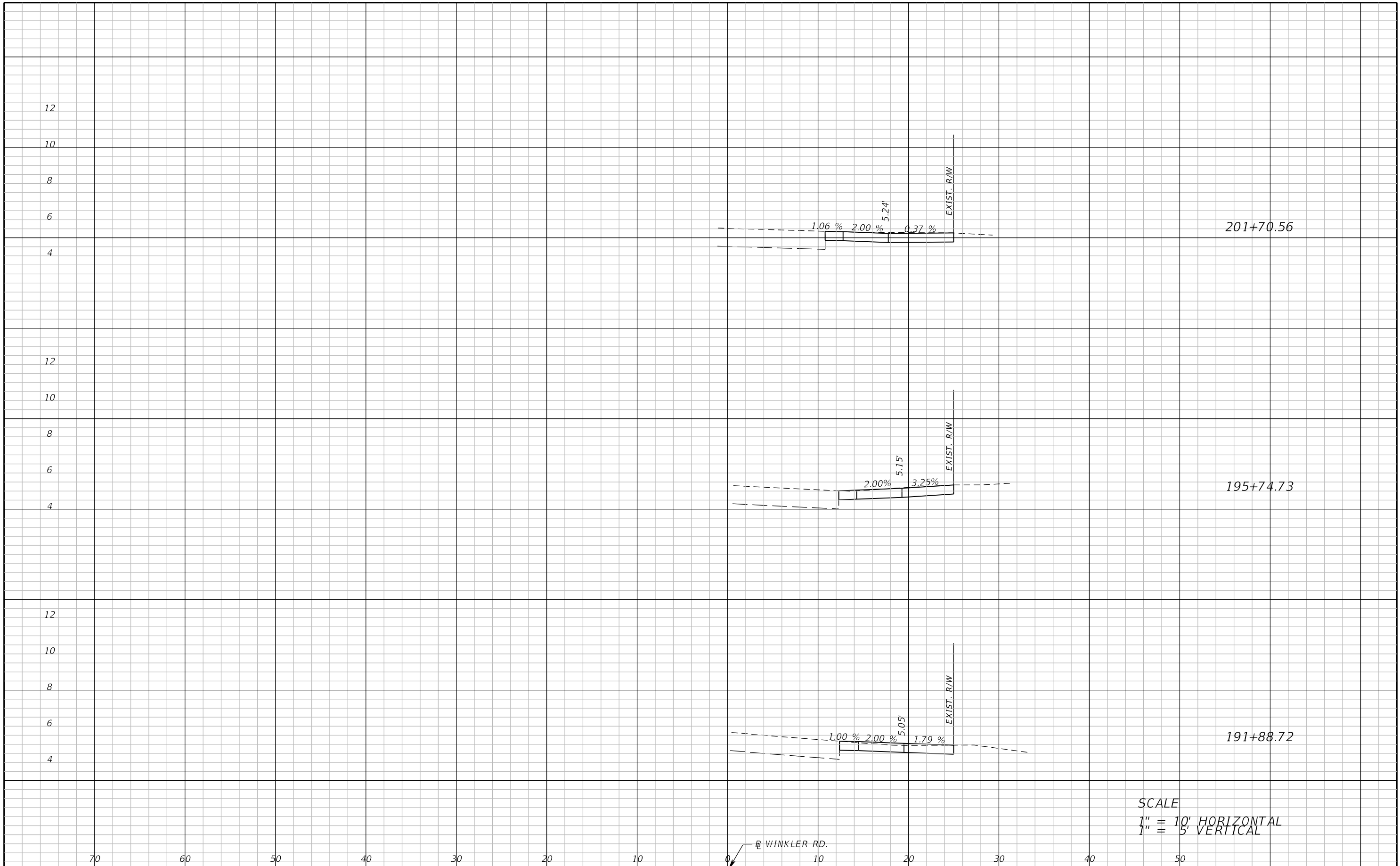


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ROAD	COUNTY	COUNTY PROJECT NO.
WINKLER RD.	LEE	6974

**DRIVEWAY CROSS SECTIONS (1)**

SHEET NO.  
 58



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

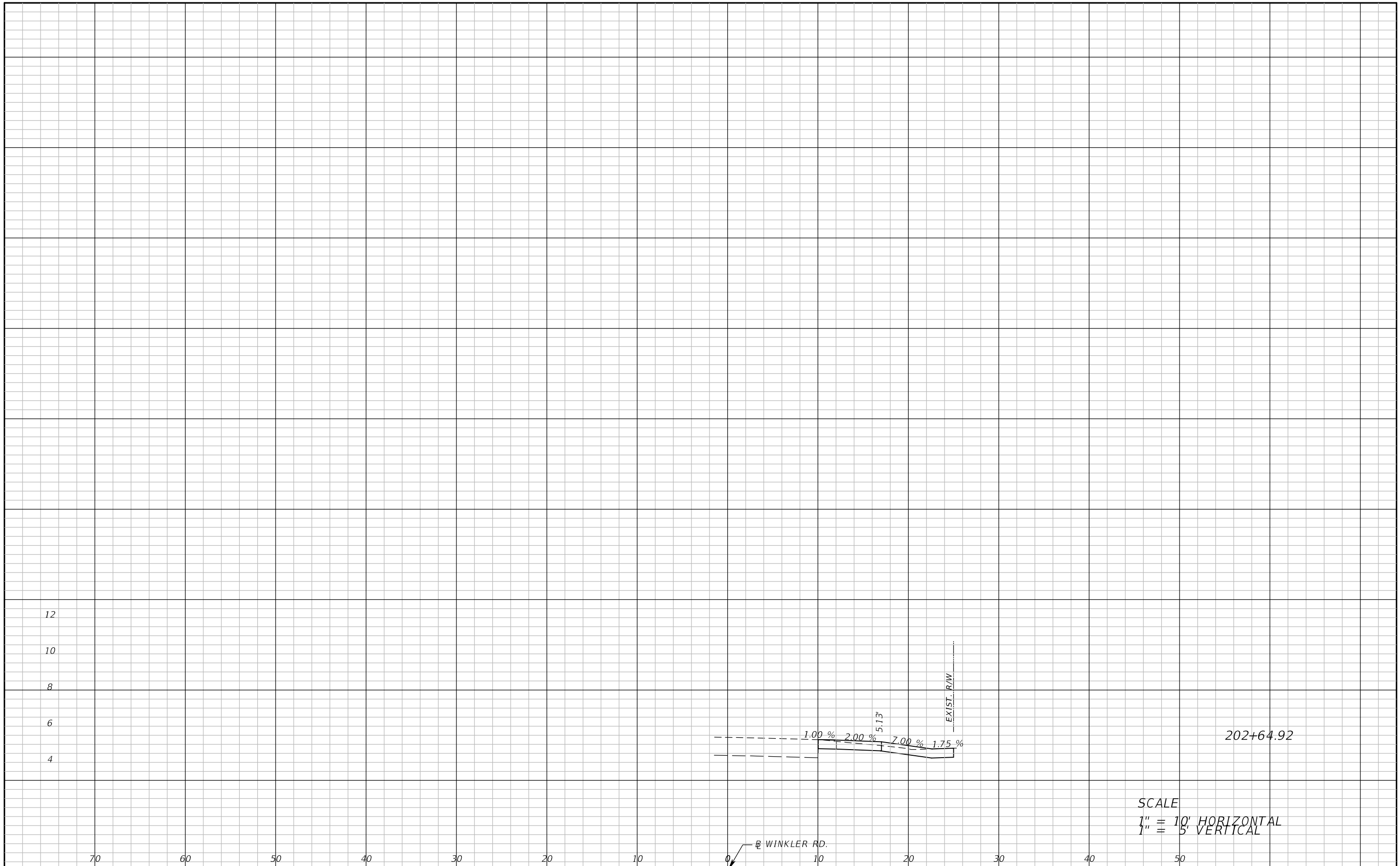


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WINKLER RD.	LEE	6974

*DRIVEWAY CROSS SECTIONS (2)*

SHEET NO.  
59



REVISIONS	
DATE	DESCRIPTION

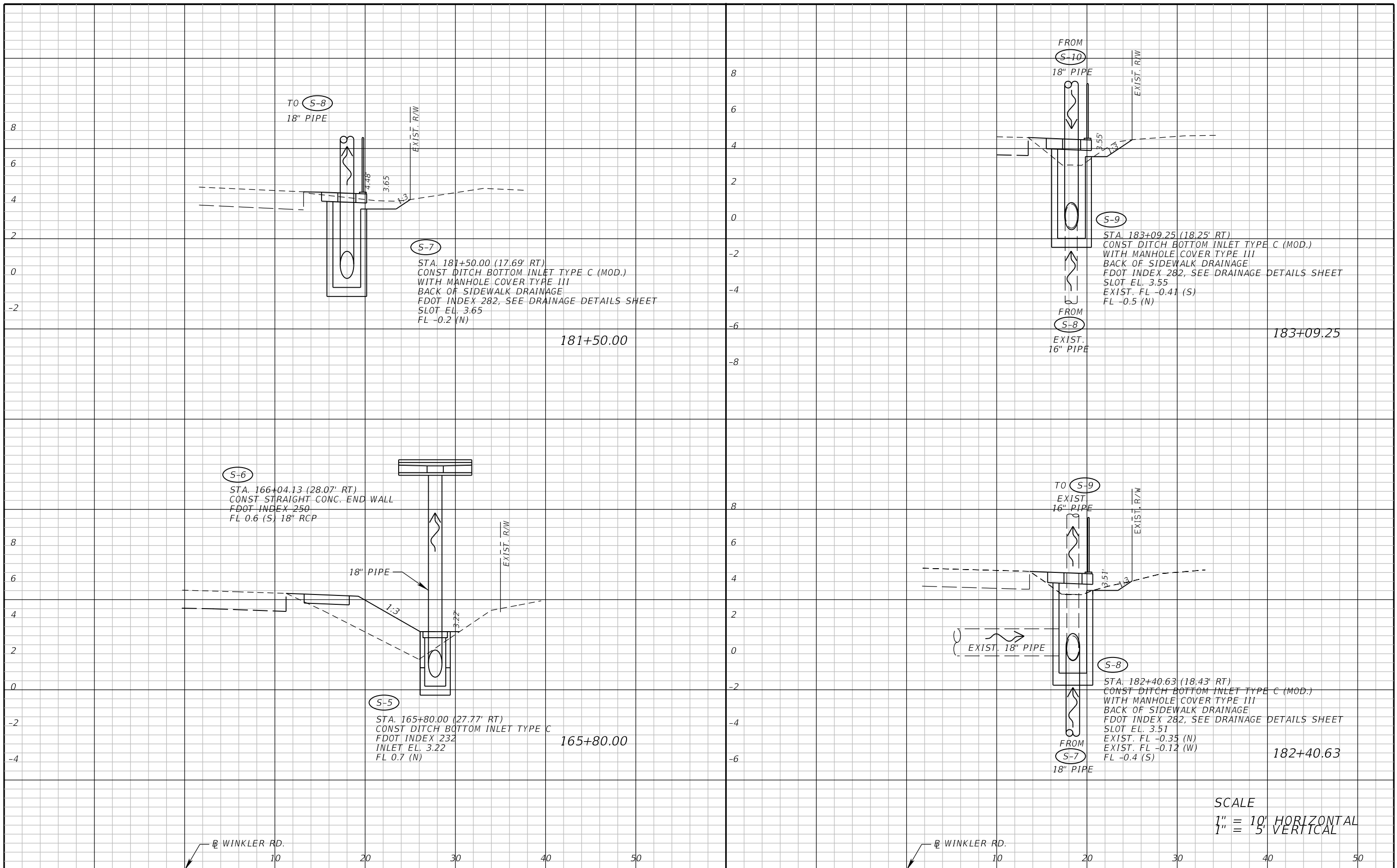


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**DRIVEWAY CROSS SECTIONS (3)**

SHEET NO.
60



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

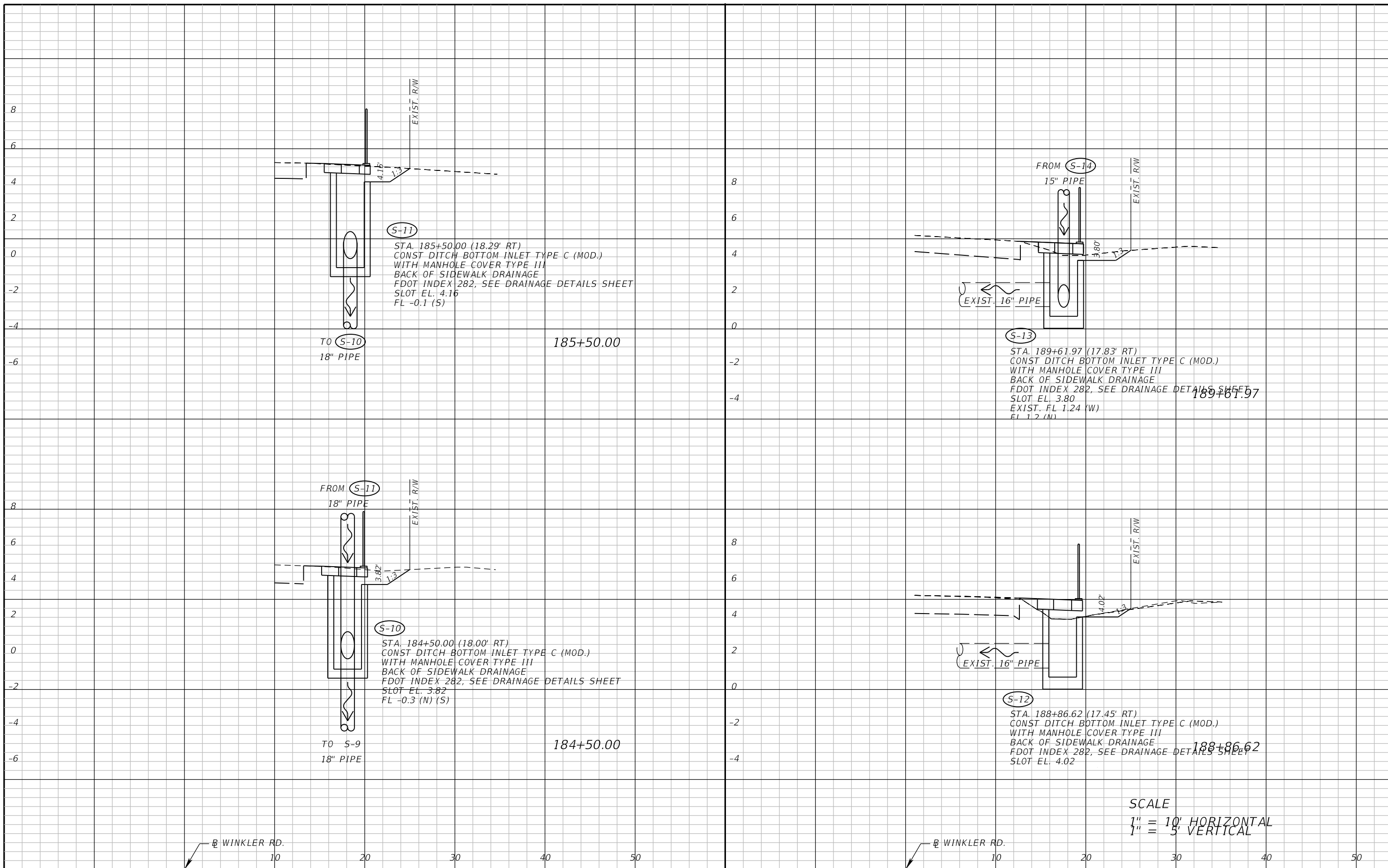


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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
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**DRAINAGE STRUCTURES (1)**

SHEET NO.  
61



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

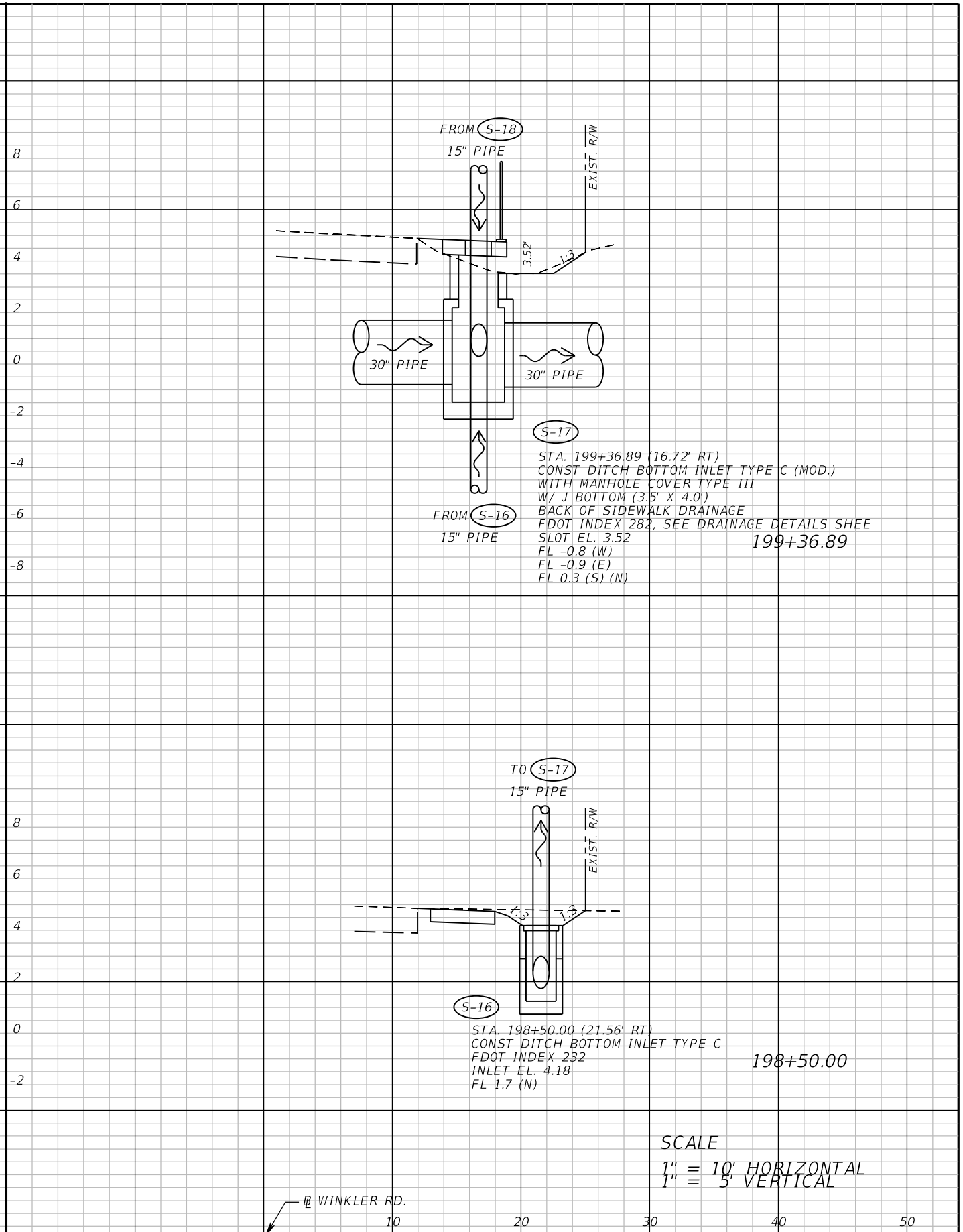
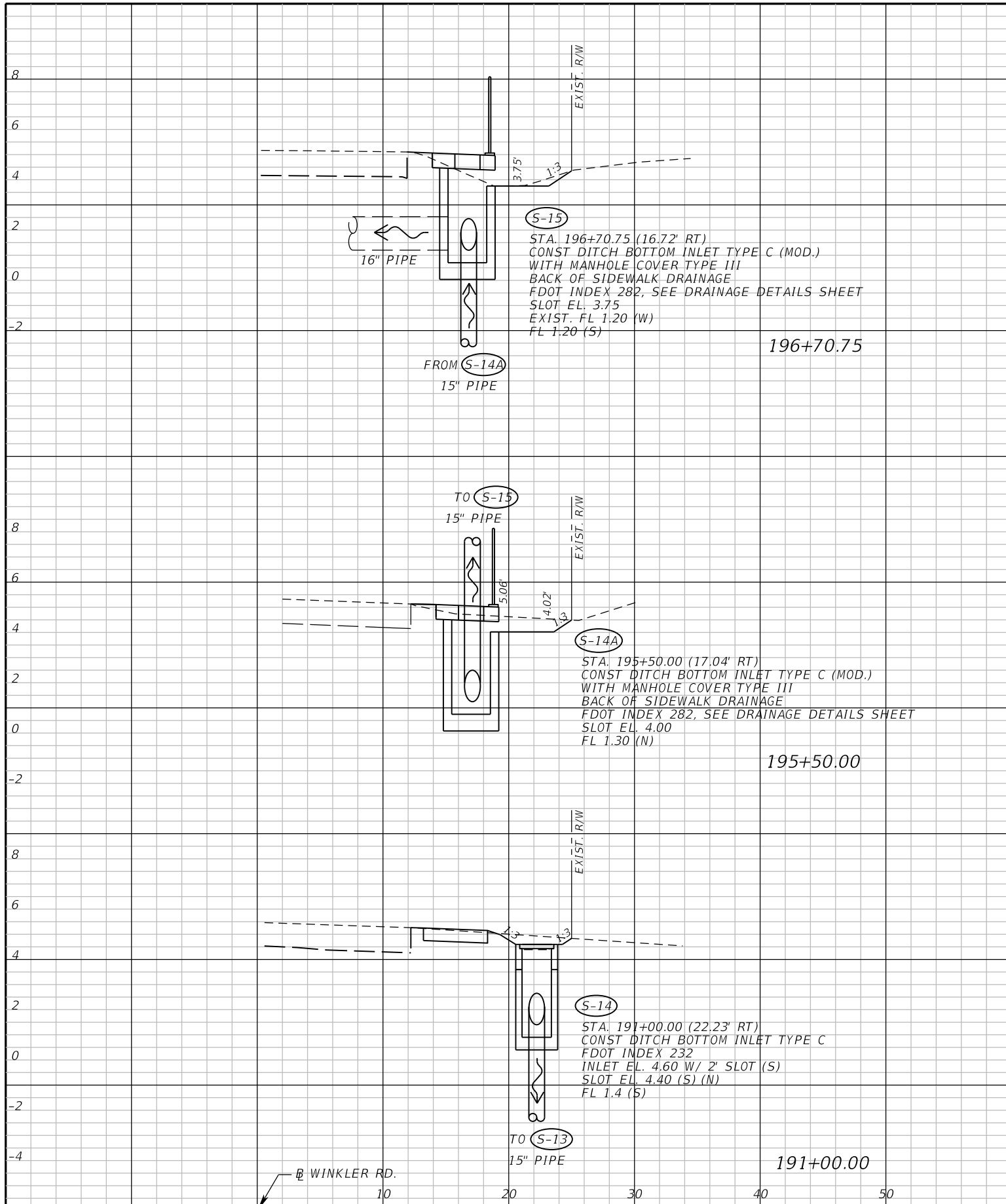


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**DRAINAGE STRUCTURES (2)**

SHEET NO.  
62



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

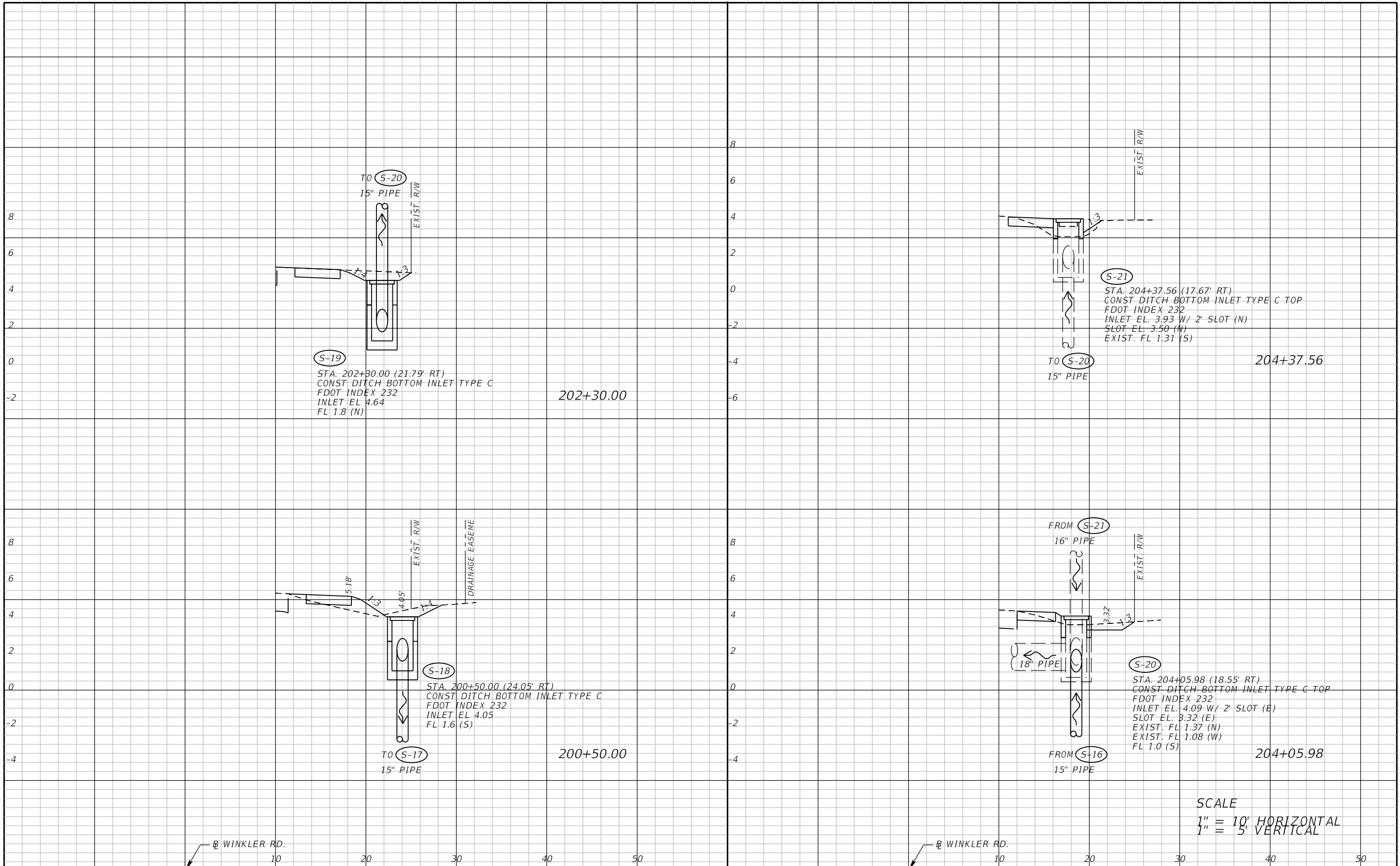


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WINKLER RD.	LEE	6974

**DRAINAGE STRUCTURES (3)**

SHEET NO.  
 63



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION



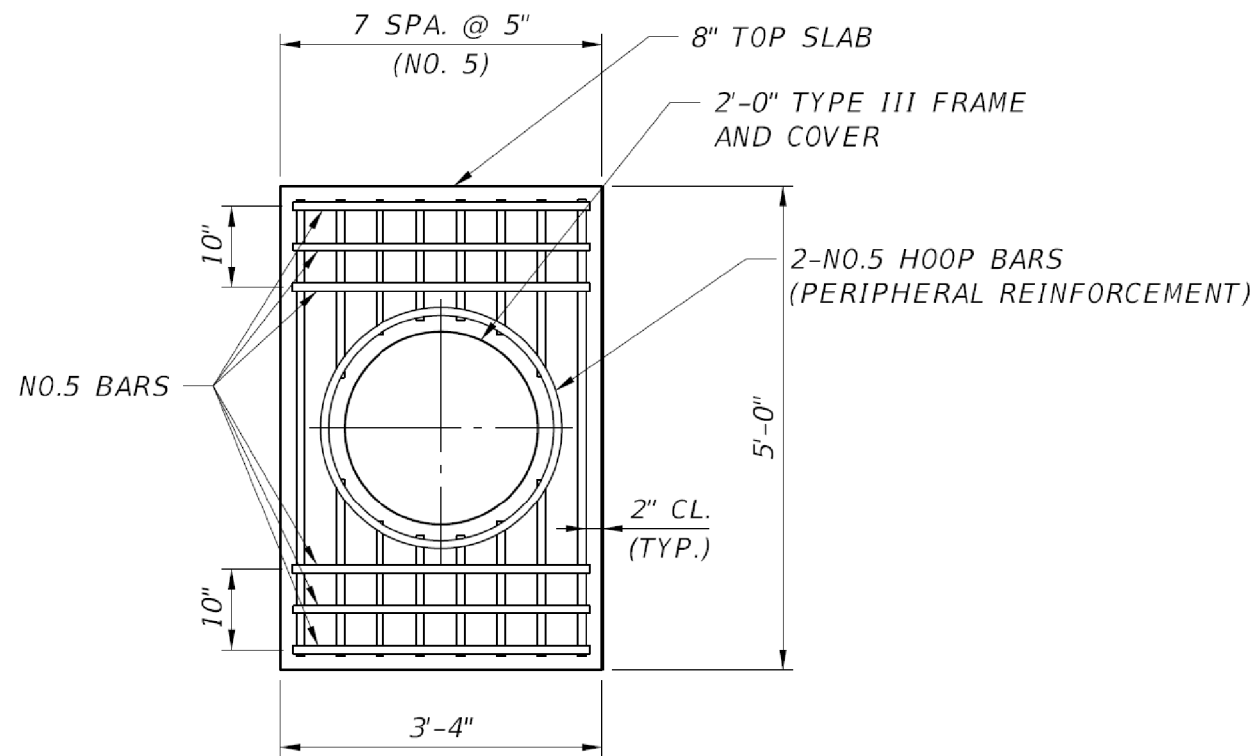
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**DRAINAGE STRUCTURES (4)**

SHEET NO.  
 64





**PLAN**  
**DBI-TPE "C" (MODIFIED)**  
**W/ TYPE III FRAME**

REVISIONS		 <b>LEE COUNTY</b> SOUTHWEST FLORIDA	<b>ATKINS</b> <small>1514 Broadway, Suite 202, Ft. Myers, FL 33901-3015            FBPE Certificate of Authorization No. 24            Mariger D. Figueroa, P.E. 72392</small>	<b>LEE COUNTY</b> DEPARTMENT OF TRANSPORTATION			<b>DRAINAGE STRUCTURE</b> <i>DETAILS</i>	SHEET NO. 65
DATE	DESCRIPTION			ROAD	COUNTY	COUNTY PROJECT NO.		
				WINKLER RD.	LEE	6974		

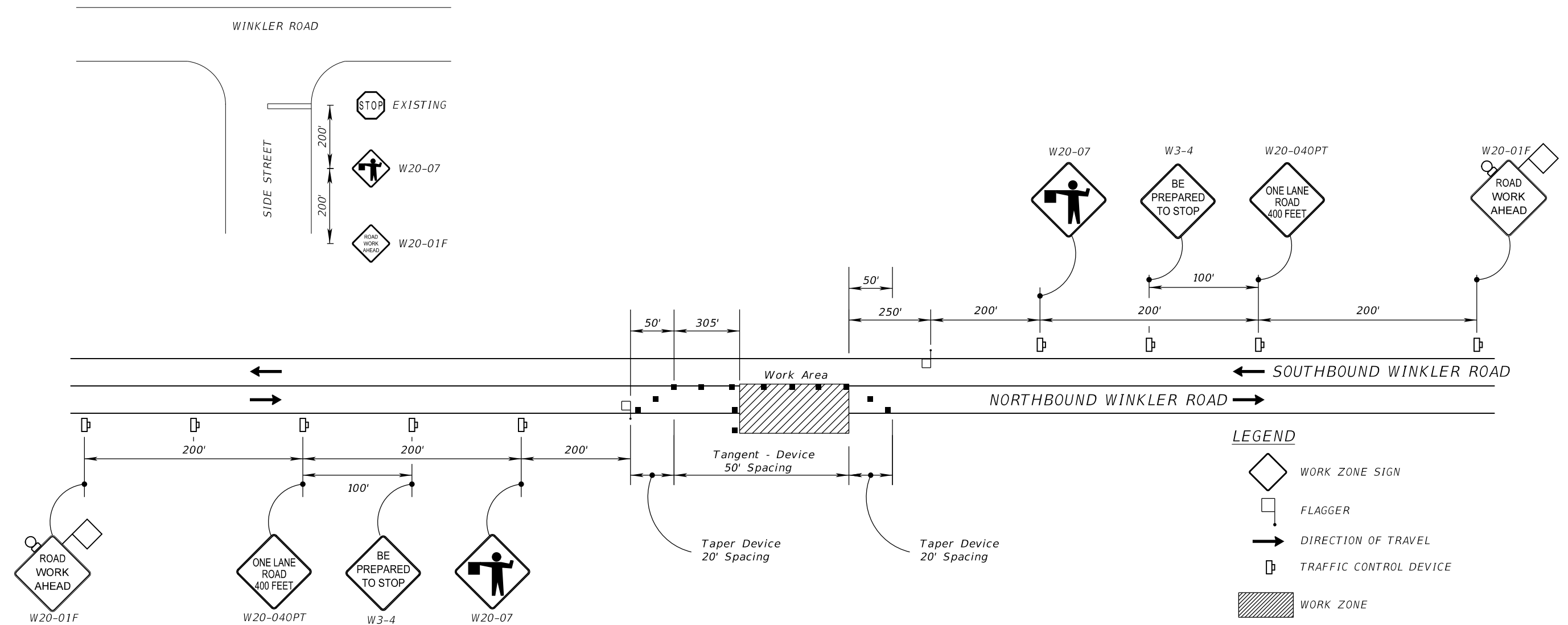
**MAINTENANCE OF TRAFFIC GENERAL NOTES:**

1. THE EXISTING SPEED LIMIT SHALL BE MAINTAINED FOR ALL TRAFFIC CONTROL AREAS. THE POSTED SPEED LIMIT ALONG WINKLER RD IS 40 MPH.
3. ACCESS SHALL BE CONTINUOUSLY MAINTAINED AT ALL SIDE STREETS AND DRIVEWAYS FOR THE DURATION OF THE PROJECT, UNLESS PREVIOUSLY APPROVED BY THE ENGINEER.
4. FOR SIDE STREET INTERSECTIONS, LANE CLOSURE SHALL BE LIMITED TO ONE LANE AT ALL TIMES. AT A MINIMUM, ONE-LANE TWO-WAY OPERATION SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS. TWO-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED DURING PERIODS OF LANE CLOSURE RESTRICTIONS.
5. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH PROJECT PLANS, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARD INDEX 600 SERIES, THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS A MINIMUM.
6. LANE CLOSURES WILL NOT BE ALLOWED BETWEEN 7:00 AM AND 9:00 AM OR BETWEEN 4:00 PM AND 7:00 PM.
7. CLOSURE OF SIDEWALK SHOULD BE AVOIDED. WHEN NECESSARY FOR CONSTRUCTION ACTIVITY, UTILIZE MID BLOCK SIDEWALK CLOSURE ADVANCED WARNING PER INDEX 660.

**CONSTRUCTION NOTES:**

1. MAINTAIN TRAFFIC IN SOUTHBOUND LANE.
2. UTILIZING FDOT INDEX 600, 603 AND 605, CONSTRUCT PROPOSED SIDEWALK AND DRAINAGE IMPROVEMENTS ON THE OUTSIDE SHOULDER OF NORTHBOUND WINKLER RD.

**SIDE STREET DETAIL**



REVISIONS	
DATE	DESCRIPTION



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LEE COUNTY DEPARTMENT OF TRANSPORTATION		
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**TRAFFIC CONTROL PLANS**

SHEET NO. 66

**I. SITE DESCRIPTION**

**(1) NATURE OF CONSTRUCTION ACTIVITY:**

THIS PROJECT IS LOCATED IN LEE COUNTY ALONG THE EAST SIDE OF WINKLER RD. FROM MCGREGOR BLVD TO COLLEGE PKWY. THE PROPOSED IMPROVEMENTS INCLUDE MODIFYING THE DITCH ALONG WINKLER RD. IN ORDER TO ACCOMMODATE THE PROPOSED 5' SIDEWALK. SELECT PIPES UNDER DRIVEWAYS AND SIDE STREETS WILL BE REPLACED IN ORDER TO MAINTAIN DRAINAGE FLOW PATTERNS. PROJECT LENGTH IS APPROXIMATELY 1.24 MILES ALONG WINKLER RD.

THIS PROJECT WILL MAINTAIN CURRENT CONVEYANCE THROUGH THE PROJECT LIMITS AND WILL NOT PROVIDE ANY FORMAL WATER QUALITY IMPROVEMENTS.

**(2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:**

- (a) THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
- (b) THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.
- (c) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&S MANUAL).

**(3) GENERAL NOTES:**

- (a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
- (b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
- (c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH/SWALE CHECK DAMS DURING CONSTRUCTION.
- (d) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.
- (e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
- (f) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
- (g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
- (h) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.

**(4) PROJECT AREAS:**

THE ESTIMATED TOTAL PROJECT AREA IS 9.79 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 2.34 ACRES

**(5) RUNOFF COEFFICIENTS:**

PRE RUNOFF COEFFICIENT: 0.48  
POST CONSTRUCTION RUNOFF COEFFICIENT: 0.68

**(6) DESCRIPTION OF SOIL:**

NOT AVAILABLE.

**(7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE FOR EACH OUTFALL:**

THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED BELOW ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- (a) SITE MAP: THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS, AND ARE INCLUDED WITH THESE SHEETS.

**(8) RECEIVING WATERS:**

THE ONSITE RUNOFF IS CONVEYED THROUGH THE CURRENT ROADSIDE DITCHES TO CROSS DRAINS FLOWING EAST FROM WINKLER RD. THESE CROSS DRAINS OUTFALL AT LOCATIONS SOUTH OF EDGEMERE DR. AND SOUTH OF AVERLY ST. TO A CANAL EAST OF WINKLER RD. AND ULTIMATELY TO THE CALOOSAHAATCHEE RIVER VIA WHISKEY CREEK. THE CONTRACTOR SHALL PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAY.

**(9) NO WETLANDS AND/OR SURFACE WATER IMPACTS ARE ANTICIPATED ON THIS PROJECT.**

**(10) DESCRIPTION OF STORMWATER MANAGEMENT:**

- (a) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
- (b) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. SEDIMENT CONTROL WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.
- (c) STORMWATER RUNOFF SHALL BE CONVEYED TO EITHER TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR TO PERMANENT STORMWATER MANAGEMENT FACILITIES (TREATMENT AND ATTENUATION PONDS). THE PROPOSED SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY. THE OUTFALL STRUCTURES ARE TO BE PLUGGED WHEN TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS OR PERMANENT STORMWATER MANAGEMENT FACILITIES ARE USED FOR EROSION AND SEDIMENT CONTROL.
- (d) THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.

**2. CONTROLS:**

**SEDIMENT AND EROSION CONTROLS:**

**(1) WATER QUALITY MONITORING:**

- (a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.
- (b) THE PROJECT ADMINISTRATOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (29 NTU'S ABOVE BACKGROUND OR 1 NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES RE-EVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (29 NTU'S ABOVE BACKGROUND OR 1 NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

**(2) STABILIZATION PRACTICES:**

- (a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSION CONTROLLED PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&S MANUAL).
- (b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.
- (c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.

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- (d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.
- (e) SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. PARTICULAR CARE SHOULD BE USED WHEN WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.
- (f) SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE.
- (g) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL:

(a) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)

PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.

- (1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES: COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.
- (2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED: COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR IN DITCHES.
- (3) USED TO STABILIZE DRAINAGE CHANNELS: CONSULT E&S MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.

(b) RUNOFF CONTROL STRUCTURE (TEMPORARY SLOPE DRAIN)

PURPOSE: TO PROTECT HILLSIDE SURFACES AGAINST EROSION DUE TO CONCENTRATED FLOW OF RUNOFF WATER.

- (1) USED ON FILL SLOPES AND CUT SLOPES TO REDUCE SEDIMENT TRANSPORT AND COULD INCLUDE TEMPORARY SLOPE DRAINS, GRASS-LINED CHANNELS, ROCK-LINED CHANNELS AND CHECK DAMS.
- (2) RUNOFF CONTROL STRUCTURES TYPICALLY DISCHARGE TO A SEDIMENT BASIN.

(c) SEDIMENT BASIN (CONTAINMENT SYSTEM)

PURPOSE: A CONTAINMENT SYSTEM IS DESIGNED TO DETAIN AN ADEQUATE VOLUME OF RUNOFF, REDUCE THE VELOCITY OF FLOW THROUGH THE SYSTEM, ALLOW FOR SETTLEMENT OF SUSPENDED SOLIDS AND REGULATE THE DISCHARGE RATE FROM THE SEDIMENT BASIN.

- (1) SEDIMENT BASINS MUST BE PLACED IN STRATEGIC LOCATIONS WITHIN THE ACTIVE AREAS OF CONSTRUCTION. CONTRIBUTING AREA AND SIZE OF TARGET SOIL PARTICLE WILL DICTATE WHETHER THE SEDIMENT BASIN WILL BE TYPE 1, TYPE 2 OR TYPE 3 SYSTEM.
- (2) THE USE OF SMALLER PRE-SEDIMENTATION BASINS USED IN CONJUNCTION WITH LARGER PERMANENT RETENTION/DETENTION PONDS ARE EFFECTIVE IN CAPTURING LARGER VOLUMES OF SEDIMENTS. THIS TECHNIQUE REQUIRES PERIODICALLY SCHEDULED REMOVAL OF THE ACCUMULATED SEDIMENTS.

(d) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

- (1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.
- (2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
- (3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(e) INLET PROTECTION SYSTEM

PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

- (1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURBINLET INSET.

- (2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.
- (3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.

II. OTHER CONTROLS:

(1) WASTE DISPOSAL

- (a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
- (b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- (c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.
- (d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

- (a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPULIN AT ALL TIMES.
- (b) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.

(3) STATE AND FEDERAL REGULATIONS: PROJECT SHOULD BE EXEMPT FROM PERMITTING SINCE THE WORK IS LIMITED TO ADDING SIDEWALK <6' PER SFWMD 62-330.051 EXEMPT ACTIVITIES

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)

THE CONTRACTOR WILL PROVIDE LEE COUNTY WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT MARIGER FIGUEROA (305) 592-7275.

IV. MAINTENANCE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

- (1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.
- (2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- (3) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- (4) STAKED SILT FENCES SHALL BE REPLACED EVERY TWELVE (12) MONTHS OR WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- (5) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

IV. INSPECTION:

- (1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT.
- (2) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
- (3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

V. TRACKING AND REPORTING:

- (1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE COUNTY DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.
- (2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES OR LUMP SUM COST OF THE PROJECT.

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