

# WILLIAMSON COUNTY, ILLINOIS CONSTRUCTION PLANS

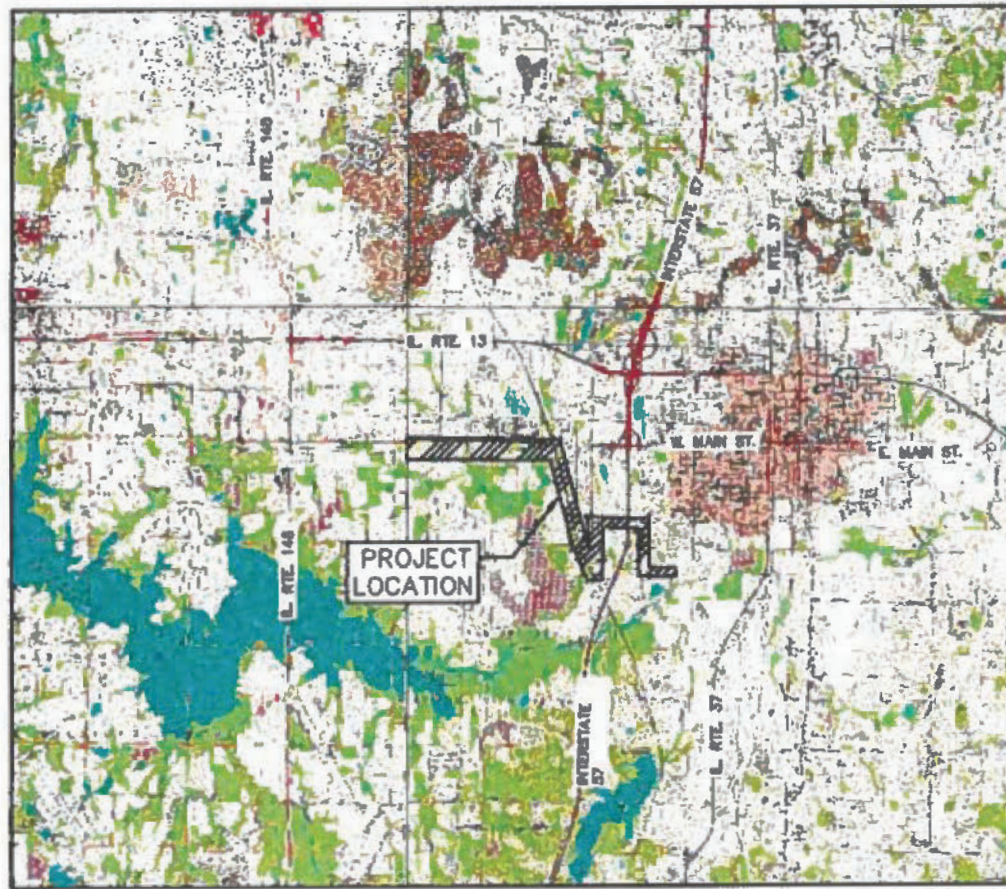
06-16-2023 LETTING ITEM 204

FOR:

## CRAB ORCHARD GREENWAY

SECTION: 21-00163-00-BT  
WILLIAMSON COUNTY

PROJECT NO.: 8T7A(115)  
JOB NO.: C-99-012-22



LOCATION MAP  
(115)

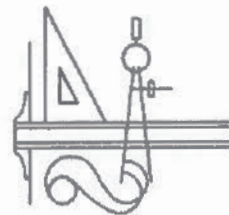


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
APPROVED	<i>MARCH 30</i>	20 <i>23</i>
	<i>[Signature]</i> WILLIAMSON COUNTY ENGINEER	
PASSED	<i>4/10/23</i>	20 <i>23</i>
	<i>[Signature]</i> DISTRICT 9 ENGINEER OF LOCAL ROADS & STREETS	
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>4/10</i>	20 <i>23</i>
	<i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER	

*W. Brian Ziegler*  
WILLIAM B. ZIEGLER, P.E.  
DATE *3/30/23*



EXPIRES : NOVEMBER 30, 2023



**CLARIDA & ZIEGLER ENGINEERING Co.**  
410 North Court Street / P.O. Box 937  
Marion, Illinois 62959

Project # 21157

CONTRACT NO.: 99700



**SUMMARY OF QUANTITIES**

WILLIAMSON COUNTY	
CRAB ORCHARD GREENWAY	
100% FEDERAL URBAN ITEP 0028	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
* 20100500	TREE REMOVAL, ACRES	ACRE	7	7
20200100	EARTH EXCAVATION	CU YD	22,696	22,696
20700220	POROUS GRANULAR EMBANKMENT	CU YD	290	290
* 25000200	SEEDING, CLASS 2	ACRE	17	17
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1,531	1,531
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1,531	1,531
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1,531	1,531
* 25000700	AGRICULTURAL GROUND LIMESTONE	TON	34	34
* 25100115	MULCH, METHOD 2	ACRE	17	17
* 25100630	EROSION CONTROL BLANKET	SQ YD	2,480	2,480
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	6,800	6,800
28000305	TEMPORARY DITCH CHECKS	FOOT	2,128	2,128
28000400	PERIMETER EROSION BARRIER	FOOT	4,273	4,273
28000500	INLET AND PIPE PROTECTION	EACH	16	16
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,216	1,216
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	412	412
28200200	FILTER FABRIC	SQ YD	1,216	1,216
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	592	592
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	127	127
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	233	233

**SUMMARY OF QUANTITIES**

WILLIAMSON COUNTY	
CRAB ORCHARD GREENWAY	
100% FEDERAL URBAN ITEP 0028	


CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	9,181	9,181
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5,700	5,700
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	88	88
40600990	TEMPORARY RAMP	SQ YD	356	356
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,070	1,070
40604000	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50	TON	712	712
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	171,926	171,926
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	260	260
42400435	PORTLAND CEMENT CONCRETE SIDEWALK 10 INCH	SQ FT	7,000	7,000
42400800	DETECTABLE WARNINGS	SQ FT	45	45
50105220	PIPE CULVERT REMOVAL	FOOT	258	258
* 50901720	BICYCLE RAILING	FOOT	26	26
51500100	NAME PLATES	EACH	6	6
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2	2
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2	2
54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	EACH	2	2
54001005	BOX CULVERT END SECTIONS, CULVERT NO. 5	EACH	2	2
54001006	BOX CULVERT END SECTIONS, CULVERT NO. 6	EACH	2	2
54002020	EXPANSION BOLTS 3/4 INCH	EACH	96	96
54010602	PRECAST CONCRETE BOX CULVERTS 6' X 2'	FOOT	30	30
54010703	PRECAST CONCRETE BOX CULVERTS 7' X 3'	FOOT	16	16

\*SPECIALTY ITEMS

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	03	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

CONTRACT NO.: 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515			
REVISIONS			<b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b> 410 North Court St., P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750
DATE	NO.		
© 2021 ALL RIGHTS RESERVED			
<b>SUMMARY OF QUANTITIES-1</b> <b>CRAB ORCHARD GREENWAY</b> <b>WILLIAMSON COUNTY, ILLINOIS</b>			
Date: 10/2022	DR. By: CWB	CK'D By: CWB	
Scale: _____	Job No. 21157	Sheet No. 03	of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 03 - SQ - STANDARDS.dwg 4-24-23 12:35:48 PM mkkumtry

SUMMARY OF QUANTITIES

				WILLIAMSON COUNTY	
				CRAB ORCHARD GREENWAY	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% FEDERAL	
				URBAN	ITEP 0028
54011104	PRECAST CONCRETE BOX CULVERTS 11'X 4'	FOOT	60	60	
54011106	PRECAST CONCRETE BOX CULVERTS 11'X 6'	FOOT	180	180	
54011205	PRECAST CONCRETE BOX CULVERTS 12'X 5'	FOOT	29	29	
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	70	70	
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	147	147	
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	79	79	
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	38	38	
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	35	35	
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	24	24	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	8	8	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	12	12	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	6	6	
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	4	4	
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2	
54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	2	2	
67100100	MOBILIZATION	L SUM	1	1	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	32	32	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	304	304	
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	96	96	

\*SPECIALTY ITEMS


CONTRACT NO.: 99700

SUMMARY OF QUANTITIES

				WILLIAMSON COUNTY	
				CRAB ORCHARD GREENWAY	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% FEDERAL	
				URBAN	ITEP 0028
X1200050	BOX CULVERT REMOVAL	FOOT	51	51	
X2600030	MILE MARKER POST	EACH	11	11	
* X2600031	SIGN PANEL - TYPE 1 (SPECIAL) DOUBLE SIDED	SQ FT	29	29	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
* X7200105	SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	121	121	
* XX008811	METAL GATE (SPECIAL)	EACH	1	1	
Z0013300	CONCRETE REMOVAL (SPECIAL)	SQ YD	20	20	

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	04	156
ILLINOIS		CRAB ORCHARD GREENWAY		

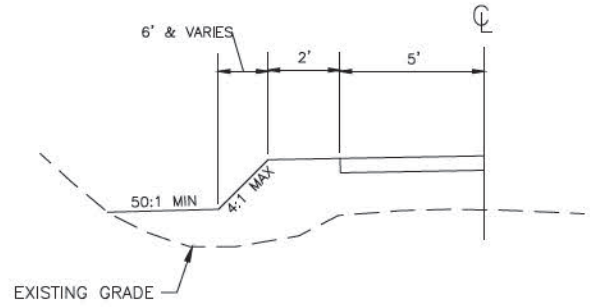
CONTRACT NO. 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515			
REVISIONS		 <p>© 2021 ALL RIGHTS RESERVED  <b>CLARIDA &amp; ZIEGLER</b>  <b>ENGINEERING CO.</b>          410 North Court St, P.O. Box 937          Marion, Illinois 62959          Phone - (618)993-6411, Fax - (618)993-6750</p>	
DATE	NO.		
<p><b>SUMMARY OF QUANTITIES-2</b>  <b>CRAB ORCHARD GREENWAY</b>  <b>WILLIAMSON COUNTY, ILLINOIS</b></p>		Date	10/2022
DR. By	CWB	CK'D By	CWB
Scale		Job No.	21157
		Sheet No.	04 of 156

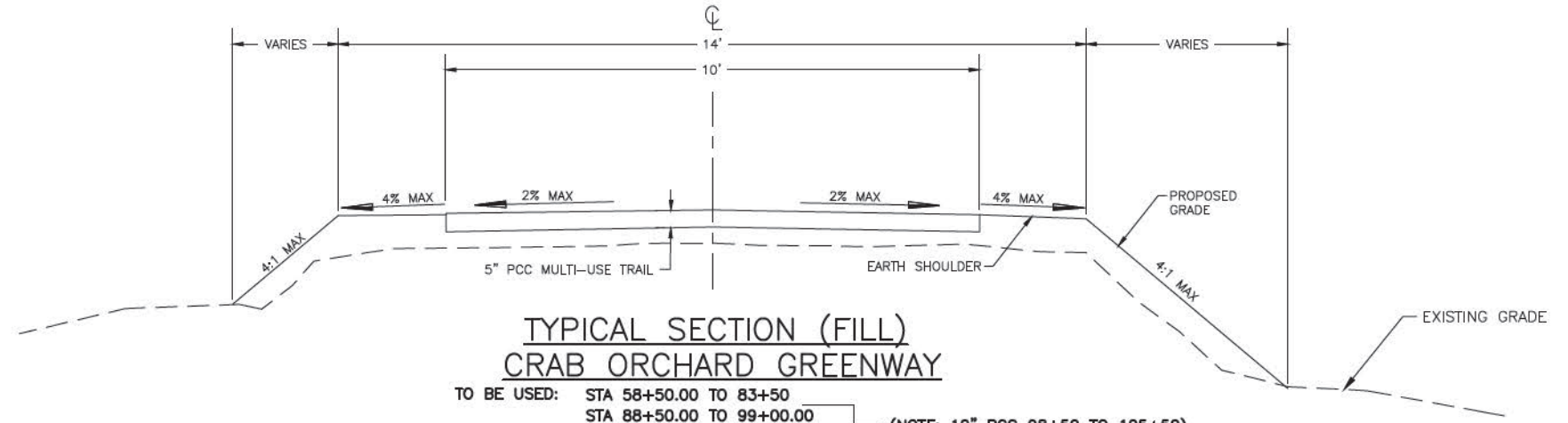
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	05	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### FILL SECTION WITH 50:1 BERM



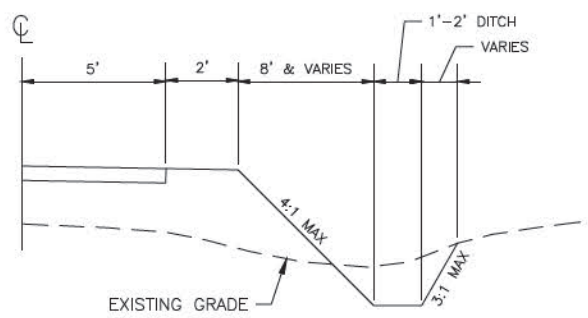
- TO BE USED:**
- STA 69+00 TO 70+00 RT
  - STA 79+50 TO 80+00 LT
  - STA 92+50 TO 96+50 LT
  - STA 93+50 TO 96+50 RT
  - STA 114+50 TO 120+50 LT
  - STA 114+50 TO 121+00 RT
  - STA 141+00 TO 142+00 RT
  - STA 141+00 TO 142+50 LT



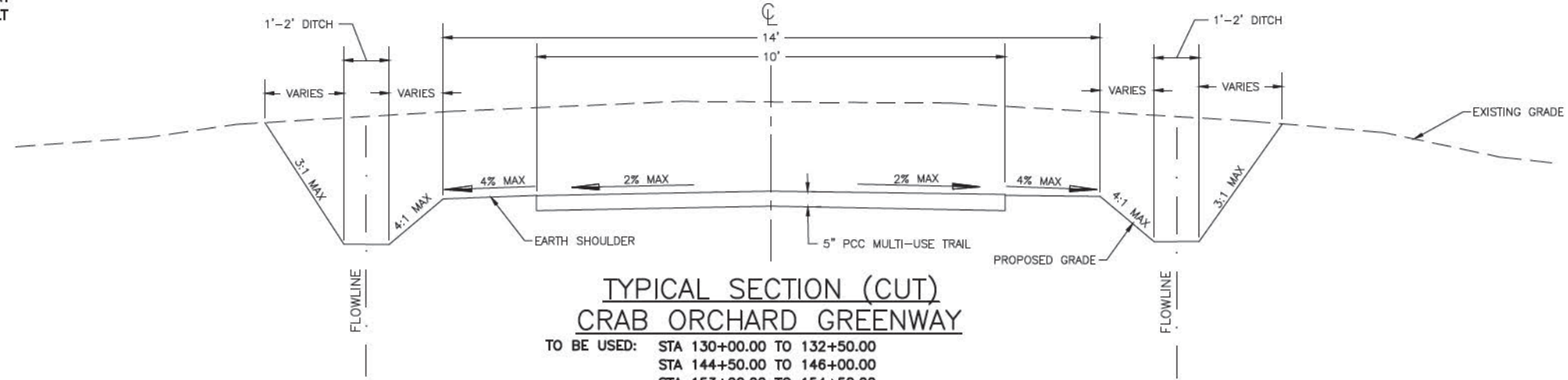
### TYPICAL SECTION (FILL) CRAB ORCHARD GREENWAY

- TO BE USED:**
- STA 58+50.00 TO 83+50
  - STA 88+50.00 TO 99+00.00
  - STA 103+50.00 TO 129+50.00
  - STA 140+50.00 TO 144+00.00
  - STA 165+50.00 TO 186+50.00 (NOTE: 3:1 FORESLOPES 165+50.00 TO 170+00.00)
  - STA 188+50.00 TO 197+50.00
  - STA 205+00.00 TO 214+70.98
  - STA 303+40.00 TO 311+00.00
- (NOTE: 10" PCC 98+50 TO 105+50)

### FILL SECTION WITH DITCH



- TO BE USED:**
- STA 70+00 TO 72+50 LT
  - STA 70+50 TO 73+50 RT
  - STA 76+50 TO 81+50 RT
  - STA 80+50 TO 82+00 LT
  - STA 89+00 TO 90+50 LT
  - STA 92+50 TO 93+00 RT
  - STA 97+00 TO 99+00 LT
  - STA 97+00 TO 98+50 RT
  - STA 121+00 TO 126+00 LT
  - STA 121+60.01 TO 126+00 RT
  - STA 129+50 TO 129+50 LT
  - STA 129+50 TO 129+50 RT
  - STA 142+50 TO 144+00 RT
  - STA 143+00 TO 144+00 LT
  - STA 183+00 TO 186+50 LT
  - STA 184+00.03 TO 184+50 RT
  - STA 188+50 TO 195+50 LT
  - STA 196+71.76 TO 197+50 LT
  - STA 197+50 TO 197+50 RT
  - STA 205+00 TO 205+00 LT
  - STA 205+00 TO 205+00 RT

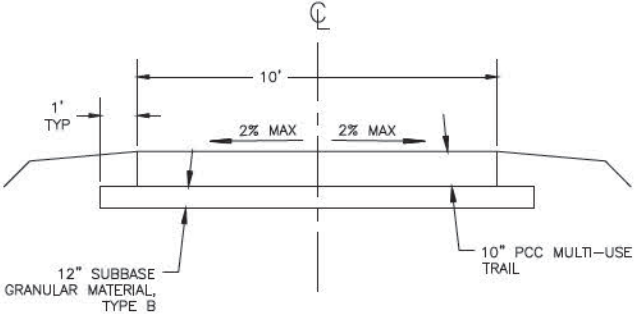


### TYPICAL SECTION (CUT) CRAB ORCHARD GREENWAY

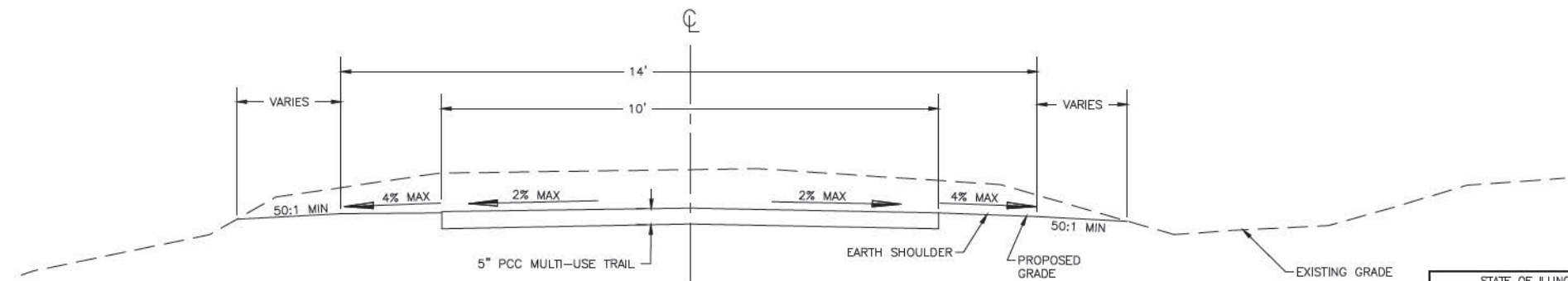
- TO BE USED:**
- STA 130+00.00 TO 132+50.00
  - STA 144+50.00 TO 146+00.00
  - STA 153+00.00 TO 154+50.00
  - STA 187+00.00 TO 188+00.00
  - STA 198+00.00 TO 199+00.00
  - STA 202+00.00 TO 204+50.00
  - STA 293+90.00 TO 303+00.00

### 10" PCC SIDEWALK WITH AGGREGATE BASE

STA 98+50.00 TO 105+50.00




**NOTES:**  
PG=PROPOSED GRADE, EG=EXISTING GRADE  
SEE CROSS SECTION FOR ALL VARYING DIMENSIONS  
SEE CROSS SECTIONS & PLAN & PROFILE SHEETS FOR DITCH DEPTH



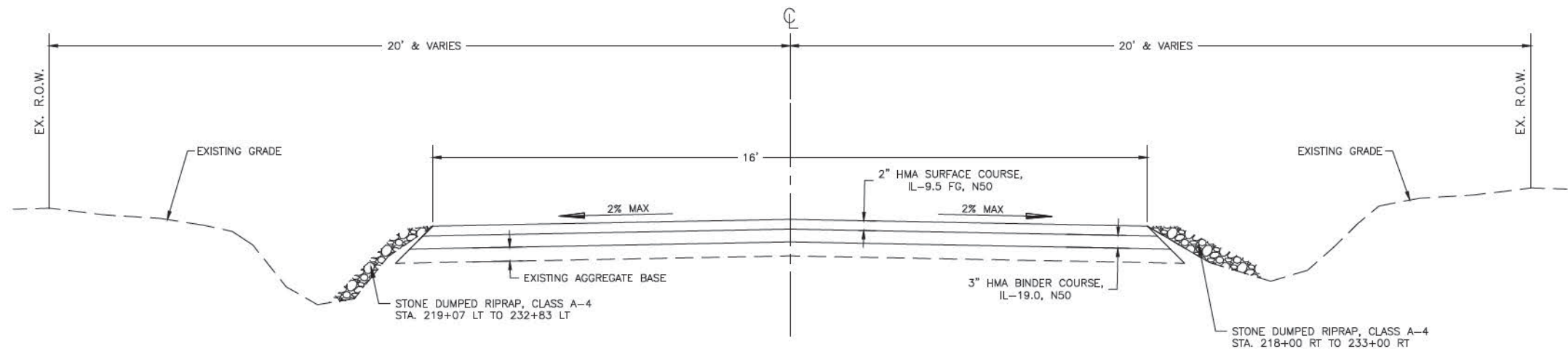
### TYPICAL SECTION (CUT WITH 50:1 BERM) CRAB ORCHARD GREENWAY

- TO BE USED:**
- STA 84+00.00 TO 88+00.00
  - STA 99+50.00 TO 103+00.00 (NOTE: 10" PCC 98+50 TO 105+50)
  - STA 134+36.00 TO 140+00.00
  - STA 146+50.00 TO 152+50.00
  - STA 155+00.00 TO 164+77.00
  - STA 199+50.00 TO 201+50.00

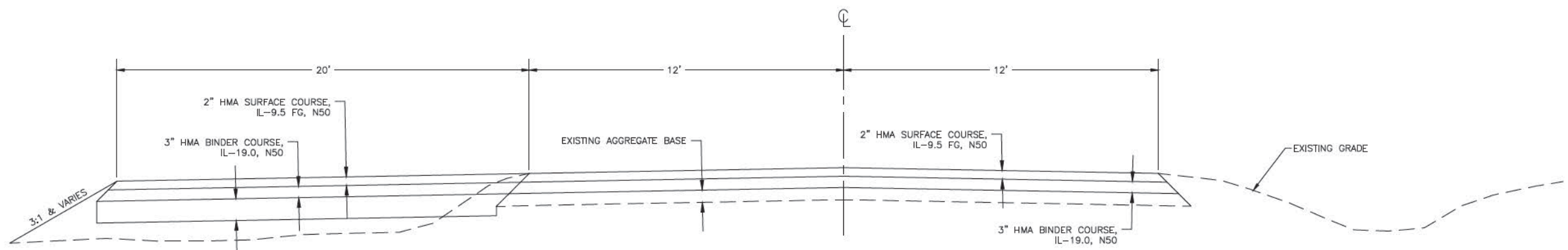
STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
<b>REVISIONS</b>	
DATE	NO.
 <b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b> 410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>TYPICALS</b>	
<b>CRAB ORCHARD GREENWAY</b>	
<b>WILLIAMSON COUNTY, ILLINOIS</b>	
Date FEB. 2023	DR. By CWB
Scale	Job No. 21157
Sheet No. 05	of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 04 - TYPICAL SECTIONS.dwg 4-24-23 12:35:59 PM msknurrey

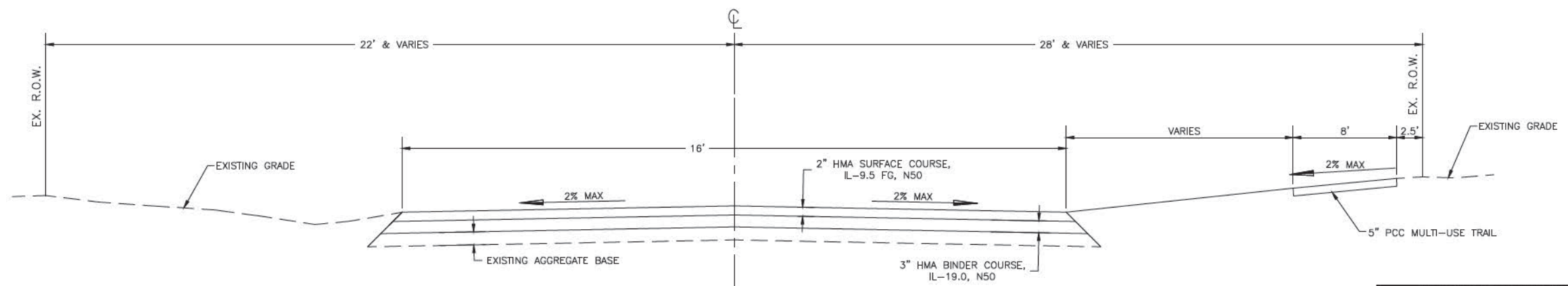
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	06	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



**TYPICAL SECTION  
TIMMONS STATION ROAD  
STA 214+70.98 TO 245+14.34**



**TYPICAL SECTION  
TIMMONS STATION ROAD AT PARKING AREA  
STA 215+70.00 TO 216+60.00**



**TYPICAL SECTION  
TIMMONS STATION ROAD  
STA 245+14.34 TO 246+76.99**

**NOTES:**  
 PG=PROPOSED GRADE, EG=EXISTING GRADE  
 SEE SECTION FOR ALL VARYING DIMENSIONS  
 SEE SECTIONS & PLAN & PROFILE SHEETS FOR DITCH DEPTH

REVISIONS	
DATE	NO.

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

© 2021 ALL RIGHTS RESERVED

**CLARIDA & ZIEGLER  
ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

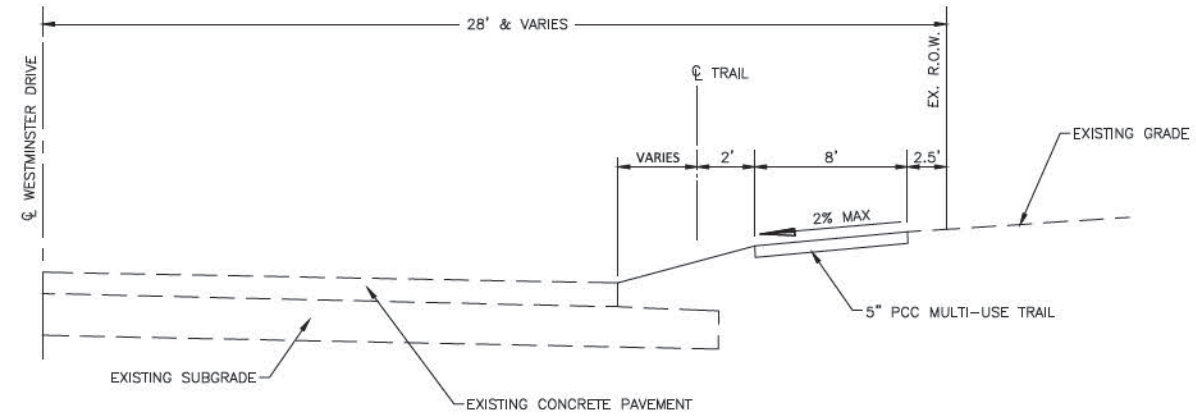
**TYPICALS  
CRAB ORCHARD GREENWAY  
WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 06 of 156

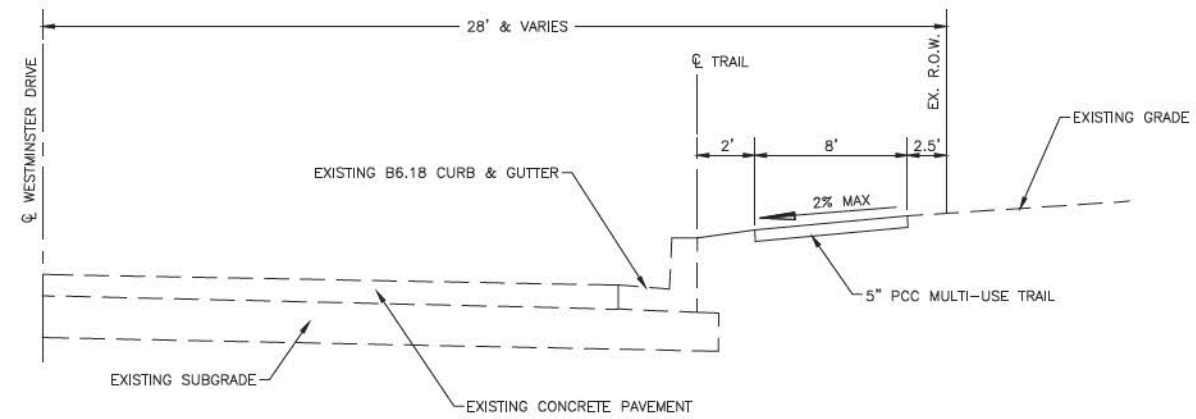
P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 04 - TYPICAL SECTIONS.dwg 4-24-23 12:36:03 PM mtkourrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	07	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



**TYPICAL SECTION  
WESTMINSTER DRIVE**  
STA 246+76.99 TO 247+37.84



**TYPICAL SECTION  
WESTMINSTER DRIVE**  
STA 247+37.84 TO 256+14.36

**NOTES:**  
PG=PROPOSED GRADE, EG=EXISTING GRADE  
SEE SECTION FOR ALL VARYING DIMENSIONS  
SEE SECTIONS & PLAN & PROFILE SHEETS FOR DITCH DEPTH

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
© 2021 ALL RIGHTS RESERVED	
<b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b> 410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>TYPICALS</b> <b>CRAB ORCHARD GREENWAY</b> <b>WILLIAMSON COUNTY, ILLINOIS</b>	
Date	FEB. 2023
DR. By	CWB
CK'D By	CWB
Scale	Job No. 21157 Sheet No. 07 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	08	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### EARTHWORK SCHEDULE

LOCATION/STATION	20200100				STRUCTURE EXCAVATION (FOR INFORMATION ONLY)	NOTES
	EARTH EXCAVATION	EARTH EXC. ADJUSTED FOR SHRINKAGE (20%)	EMBANKMENT	EARTHWORK BALANCE		
	CU YD	CU YD	CU YD	CU YD		
<b>CONWR</b>						
STA. 58+50 to 119+00	2,257	1,805	5,867	-4,061		
WESTERNAIRE CR. TRIBUTARY					220	
WESTERNAIRE CREEK					160	
CAMPGROUND CREEK					230	
EAST FORK CAMPGROUND CREEK					230	
STA. 119+00 TO 216+50	16,903	13,522	8,265	5,257		
<b>TIMMONS STATION ROAD</b>						
	0		0			
<b>WESTMINSTER DRIVE</b>						
STA. 245+20 TO 256+14	137	109	30	79		
<b>MARION HIGH SCHOOL</b>						
STA. 293+91 TO 311+14	3,399	2,719	2,746	-27		
<b>TOTALS</b>	<b>22,696</b>	<b>18,157</b>	<b>16,908</b>	<b>1,248</b>	<b>840</b>	


### TREE REMOVAL SCHEDULE

LOCATION/STATION	20100500	
	TREE REMOVAL ACRES	COMMENTS
	ACRES	
STA. 58+00 TO STA. 85+00	1.47	
STA. 89+50 TO STA. 103+50	0.76	
STA. 106+00 TO STA. 170+60	3.52	
STA. 195+00 TO STA. 218+00	1.25	
<b>TOTALS</b>	<b>7</b>	

Note:

Final Tree removal limits shall be determined by the Engineer in the field.

CONTRACT NO.: 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515			
REVISIONS		© 2021 ALL RIGHTS RESERVED	
DATE	NO.	 <b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b> 410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>SCHEDULES</b>			
<b>CRAB ORCHARD GREENWAY</b>			
<b>WILLIAMSON COUNTY, ILLINOIS</b>			
Date	10/2022	DR. By	CWB
		OK'D By	CWB
Scale		Job No.	21157
		Sheet No.	08 of 156



### SEEDING SCHEDULE


LOCATION/STATION	25000200	25100115	20101400	20101500	20101600	28000250	25000700
	SEEDING, CLASS 2	MULCH, METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	*TEMPORARY EROSION CONTROL SEEDING	AGRICULTURAL GROUND LIMESTONE
	ACRE	ACRE	POUND	POUND	POUND	POUND	TON
<b>CONWR</b>							
58+50 TO 214+38	14.25	14.25	1,282.5	1,282.5	1,282.5	5,700	28.5
<b>TIMMONS STATION ROAD</b>							
214+38 to 219+30	0.25	0.25	23.0	23.0	23.0	100	0.5
<b>WESTMINSTER DRIVE</b>							
246+60 TO 255+98	0.50	0.50	45.0	45.0	45.0	200	1.0
<b>MARION HIGH SCHOOL</b>							
293+92 TO 311+10	2.00	2.00	180.0	180.0	180.0	800	4.0
<b>TOTALS</b>	17.00	17.00	1,531	1,531	1,531	6,800	34.0

\* TEMPORARY SEEDING 4 APPLICATIONS AT 100 LB PER ACRE

### REMOVAL SCHEDULE

LOCATION/STATION	50105220	X1200050	Z0013300	COMMENTS
	PIPE CULVERT REMOVAL	BOX CULVERT REMOVAL	CONCRETE REMOVAL (SPECIAL)	
	FOOT	FOOT	SQ YD	
<b>CONWR</b>				
60+47	26			24" CMP
76+19	33			18" CMP
85+83		22		12' X 5' RCBC
99+79		29		10' X 4' RCBC
133+50			20	LOW WATER CROSSING
139+00	50			72" CMP
185+89	26.5			36" CMP
210+75	23			10" HDPE
212+49	14.5			12" CMP
213+90	20			10" HDPE
<b>TIMMONS STATION ROAD</b>				
217+75	30			30" HDPE
218+96	31			15" HDPE
<b>WESTMINSTER DRIVE</b>				
255+16.37	4			24" HDPE W/CMP FES
<b>TOTALS</b>	258	51	20	

CONTRACT NO.: 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515					
REVISIONS	 <p><b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b>          410 North Court St, P.O. Box 937          Marion, Illinois 62959          Phone - (618)993-6411, Fax - (618)993-6750</p> <p><b>SCHEDULES</b>  <b>CRAB ORCHARD GREENWAY</b>  <b>WILLIAMSON COUNTY, ILLINOIS</b></p>				
DATE		NO.			
Date	10/2022	DR. By	CWB	OK'D By	CWB
Scale		Job No.	21157	Sheet No.	09 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	10	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### EROSION CONTROL

LOCATION/STATION	28000400	28000305	28000500	25100630	28100807	NOTES
	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET & PIPE PROTECT.	EROSION CONTROL BLANKET	STONE DUMPED RIPRAP, CLASS A4	
	FOOT	FOOT	EACH	SQ YD	TON	
<b>CONWR</b>						
STA. 58+48 LT			1			
STA. 60+52 LT			1			
STA. 70+00 TO 82+25 LT & RT		168				12 LOCATIONS, 14 FT EA
STA. 76+27 RT			1			
STA. 92+02 LT			1			
STA. 92+50 TO 99+00 LT & RT		140				10 LOCATIONS, 14 FT EA
STA. 109+52 RT			1			
STA. 114+00 TO 117+50 LT & RT		84				6 LOCATIONS, 14 FT EA
STA. 120+00 TO 133+00 LT & RT		224				16 LOCATIONS, 14 FT EA
STA. 125+69 LT			1			
STA. 128+52 LT			1			
STA. 140+60 TO 147+00 LT & RT		126				9 LOCATIONS, 14 FT EA
STA. 152+50 TO 159+00 LT & RT		84				6 LOCATIONS, 14 FT EA
STA. 166+50 TO 170+00 RT	350					
STA. 183+00 TO 199+00 LT & RT		364				26 LOCATIONS, 14 FT EA
STA 185+84 LT			1			
STA 193+24 LT			1			
STA. 195+00 TO 199+00 LT				359		
STA 196+73 LT			1			
STA. 197+00 TO 199+00 RT				180		
STA. 202+00 TO 205+50 RT		182		550		13 LOCATIONS, 14 FT EA
STA. 202+00 TO 205+50 LT		154		276		11 LOCATIONS, 14 FT EA
STA. 210+70 LT			1			
STA. 212+47 LT			1			
STA. 214+08 LT			1			
<b>TIMMONS STATION ROAD</b>						
STA. 217+76 RT			1			
STA. 219+02 LT			1			
STA. 219+07 TO 232+83 LT					197	SEE TYPICAL SECTION

### EROSION CONTROL

LOCATION/STATION	28000400	28000305	28000500	25100630	28100807	NOTES
	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET & PIPE PROTECT.	EROSION CONTROL BLANKET	STONE DUMPED RIPRAP, CLASS A4	
	FOOT	FOOT	EACH	SQ YD	TON	
STA. 218+00 TO 233+00 RT					215	SEE TYPICAL SECTION
STA. 245+20.15 TO 246+76.99 RT	157					
<b>WESTMINSTER DRIVE</b>						
STA. 246+76.99 TO 256+20 RT	943					
<b>MARION HIGH SCHOOL</b>						
STA. 294+00 TO 297+50 LT & RT		280		625		20 LOCATIONS, 14 FT EA
STA. 297+00 TO 309+00 LT	1,223					
STA. 297+50 TO 303+00 RT		252		490		18 LOCATIONS, 14 FT EA
STA. 303+00 TO 309+00 RT	600					
STA. 303+58 RT			1			
<b>MISCELLANEOUS LOCATIONS</b>	1,000	70				5 LOCATIONS, 14 FT EA
<b>TOTALS</b>	4,273	2,128	16	2,480	412	

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 03 - 500 - STANDARD.dwg 4-24-23 12:37:29 PM mikromrey

CONTRACT NO.: 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
REVISIONS	© 2021 ALL RIGHTS RESERVED
DATE	<b>CLARIDA &amp; ZIEGLER</b>
NO.	<b>ENGINEERING CO.</b>
	410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750
	<b>SCHEDULES</b>
	<b>CRAB ORCHARD GREENWAY</b>
	<b>WILLIAMSON COUNTY, ILLINOIS</b>
Date 10/2022	DR. By CWB
Scale	Job No. 21157 Sheet No. 10 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	11	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700


## HMA & AGGREGATE SCHEDULE

LOCATION/STATION	31101900	40603080	40604000	40600275	40600290	40600990	40200800	COMMENTS
	SUBBASE GRANULAR MATERIAL, TYPE C	HMA BINDER COURSE, IL-19.0, N50	HMA SURFACE COURSE, IL-9.5FG, MIX "C", N50	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	TEMPORARY RAMP	AGGREGATE SURFACE COURSE, TYPE B	
	TON	TON	TON	POUND	POUND	SQ YD	TON	
<b>CONWR</b>								
99+30 LT & RT							157.0	CHAMNESSTOWN ROAD
99+30 LT							76.0	PARKING AREA
<b>TIMMONS STATION ROAD</b>								
214+70.98 TO 215+70		25	17	326	130	178		EXISTING AGG SURFACE
215+70 TO 216+60	127	34	23	450	180			PARKING AREA
215+70 TO 235+61		627	417	8,405	3,345			EXISTING AGG/O&C SURFACE
235+61 TO 246+60		384	255		2,045	178		EXISTING HMA SURFACE
<b>TOTALS</b>	<b>127</b>	<b>1,070</b>	<b>712</b>	<b>9,181</b>	<b>5,700</b>	<b>356</b>	<b>233</b>	

## PCC SIDEWALK SCHEDULE

LOCATION/STATION	42400200	42400410	42400435	31101000	42400800	50901720
	PC CONC SIDEWALK 5"	PC CONC SIDEWALK 8"	PC CONC SIDEWALK 10"	SUBBASE GRANULAR MATERIAL, TYPE B	DETECTABLE WARNINGS	BICYCLE RAILING
	SQ FT	SQ FT	SQ FT	TON	SQ FT	FOOT
<b>CONWR</b>						
58+50 TO 98+50	40,000					
98+50 TO 105+50			7,000	592		
105+50 TO 214+38	108,880					
214+38 TO 214+70.98	726					
<b>TIMMONS STATION ROAD</b>						
245+20.15 TO 246+76.99	1,218				25	
<b>WESTMINSTER DRIVE</b>						
246+76.99 TO 255+04	6,659					
255+04 TO 255+30		260				26
255+30 TO 256+14	720					
<b>MARION HIGH SCHOOL</b>						
293+96.60 TO 311+12	13,723				20	
<b>TOTALS</b>	<b>171,926</b>	<b>260</b>	<b>7,000</b>	<b>592</b>	<b>45</b>	<b>26</b>

CONTRACT NO.: 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515		
<b>REVISIONS</b>	 <p><b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b> 410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750</p> <p><b>SCHEDULES CRAB ORCHARD GREENWAY WILLIAMSON COUNTY, ILLINOIS</b></p>	
DATE		NO.
Date	DR. By	CK'D By
10/2022	CWB	CWB
Scale	Job No.	Sheet No.
	21157	11 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 03 - SQ - STANDARDS.dwg 4-24-23 12:37:33 PM mikromney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	12	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### PIPE CULVERT SCHEDULE

LOCATION/STATION	542A0220	542A0223	542A0229	542A0235	542A0241	542A5491	54213660	54213663	54213669	54213675	54213681	54214521
	PIPE CULVERTS, CLASS A, TYPE 1 15"	PIPE CULVERTS, CLASS A, TYPE 1 18"	PIPE CULVERTS, CLASS A, TYPE 1 24"	PIPE CULVERTS, CLASS A, TYPE 1 30"	PIPE CULVERTS, CLASS A, TYPE 1 36"	PIPE CULVERTS, CLASS A, TYPE 1 EQRS 36"	PRC FLARED END SECTIONS 15"	PRC FLARED END SECTIONS 18"	PRC FLARED END SECTIONS 24"	PRC FLARED END SECTIONS 30"	PRC FLARED END SECTIONS 36"	PRC FLARED END SECTIONS, EQRS 36"
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
<b>CONWR</b>												
58+65.31 LT		22						2				
60+52.21						24						2
76+27.10			32					2				
91+98.36			20					2				
99+11.83 LT		27						2				
109+51.65		16						2				
125+88.76		37						2				
128+51.71			21						2			
185+89.76					35						2	
193+24.33	14						2					
196+71.74		12						2				
210+76.57	24						2					
212+49.09				23						2		
214+08.26	16						2					
<b>TIMMONS STATION ROAD</b>												
217+73.50				15						2		
218+96.03	16						2					
<b>WESTMINSTER DRIVE</b>												
255+16.37			6									
<b>MARIION HIGH SCHOOL</b>												
303+71		33						2				
<b>TOTALS</b>	70	147	79	38	35	24	8	12	6	4	2	2

CONTRACT NO.: 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
© 2021 ALL RIGHTS RESERVED	
<b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b>	
410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>SCHEDULES</b> <b>CRAB ORCHARD GREENWAY</b> <b>WILLIAMSON COUNTY, ILLINOIS</b>	
Date 10/2022	DR. By CWB
Scale	Job No. 21157 Sheet No. 12 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 03 - 500 - STANDARDS.dwg 4-24-23 12:37:39 PM mikronney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	13	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### BOX CULVERT SCHEDULE


LOCATION	54011104	54011205	54011106	54010602	54010703	54001001	54001002	54001003	54001004	54001005	54001006	54002020	20700220	28100107	28200200
	PRECAST CONCRETE BOX CULVERTS 11' X 4' (NO. 1)	PRECAST CONCRETE BOX CULVERTS 12' X 5' * (NO. 2)	PRECAST CONCRETE BOX CULVERTS 11' X 6' (NO. 3 & 5)	PRECAST CONCRETE BOX CULVERTS 6' X 2' (NO. 4)	PRECAST CONCRETE BOX CULVERTS 7' X 3' (NO. 6)	BOX CULVERT END SECTIONS, CULVERT NO. 1	BOX CULVERT END SECTIONS, CULVERT NO. 2	BOX CULVERT END SECTIONS, CULVERT NO. 3	BOX CULVERT END SECTIONS, CULVERT NO. 4	BOX CULVERT END SECTIONS, CULVERT NO. 5	BOX CULVERT END SECTIONS, CULVERT NO. 6	EXPANSION BOLTS 3/4 INCH	POROUS GRANULAR EMBANKMENT	STONE RIPRAP, CLASS A4	FILTER FABRIC
	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	CU YD	SQ YD	SQ YD
<b>CONWR</b>															
WESTERNAIRE CREEK TRIBUTARY															
STA 85+85.00	60					2							50	71	71
WESTERNAIRE CREEK															
STA 99+79.63		28.7					2					96	50	404	404
CAMPGROUND CREEK															
STA 133+54.32			90					2					65	597	597
OVERFLOW STA 139+12				30					2				30	36	36
EAST FORK CAMPGROUND CREEK															
STA 149+16.25			90							2			65	72	72
<b>MARION HIGH SCHOOL</b>															
STA 309+56.30					16						2		30	36	36
<b>TOTALS</b>	60	28.7	180	30	16	2	2	2	2	2	2	96	290	1,216	1,216

\* SEE SPECIAL PROVISIONS

### PAVEMENT MARKING SCHEDULE

LOCATION/STATION	78001100	COMMENTS
	PAINT PAVEMENT MARKING- LETTERS & SYMBOLS	
	SQ FT	
<b>FOSSE ROAD</b>	48	SHARED LANE SYMBOL
<b>TIMMONS STATION ROAD</b>	48	SHARED LANE SYMBOL
<b>TOTALS</b>	96	

CONTRACT NO.: 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
© 2021 ALL RIGHTS RESERVED	
 <b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b> 410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>SCHEDULES</b> <b>CRAB ORCHARD GREENWAY</b> <b>WILLIAMSON COUNTY, ILLINOIS</b>	
Date	10/2022
DR. By	CWB
CK'D By	CWB
Scale	Job No. 21157 Sheet No. 13 of 156

## SIGN SCHEDULE

LOCATION/STATION	X7200105	X2600031	72000100		72800100	COMMENTS
	SIGN PANEL - TYPE 1 (SPECIAL)	SIGN PANEL - TYPE 1 (SPECIAL) DOUBLE SIDED	SIGN PANEL - TYPE 1		TELESCOPING STEEL SIGN SUPPORT	
	SQ FT	SQ FT	TYPE & NO.	SQ FT	FOOT	
<b>CONWR</b>						
59+00 LT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
99+00 LT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
99+60 RT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
148+00 RT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
200+25 LT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
214+40 RT	5.52	1.31	M6-1 (1)	0.75	13.8	LEFT TURN DIRECTIONAL ARROW
	-	-	M6-3 (1)	0.75		STRAIGHT AHEAD DIRECTIONAL ARROW
215+20 LT	5.52	1.31	M6-1 (1)	0.75	13.8	RIGHT TURN DIRECTIONAL ARROW
	-	-	M6-3 (1)	0.75		STRAIGHT AHEAD DIRECTIONAL ARROW
<b>TIMMONS STATION ROAD</b>						
232+00 LT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
244+50 RT	5.52	1.31	M6-1 (1)	0.75	13.8	RIGHT TURN DIRECTIONAL ARROW
	-	-	M6-3 (1)	0.75		STRAIGHT AHEAD DIRECTIONAL ARROW
245+50 RT	5.52	1.31	M6-1 (1)	0.75	13.8	LEFT TURN DIRECTIONAL ARROW
	-	-	M6-3 (1)	0.75		STRAIGHT AHEAD DIRECTIONAL ARROW
<b>WESTMINSTER ROAD</b>						
271+30 RT	5.52	1.31	M6-1 (1)	0.75	13.8	RIGHT TURN DIRECTIONAL ARROW
	-	-	M6-3 (1)	0.75		STRAIGHT AHEAD DIRECTIONAL ARROW
<b>FOSSE ROAD</b>						
272+00 LT	5.52	1.31	M6-1 (1)	0.75	13.8	LEFT TURN DIRECTIONAL ARROW
	-	-	M6-3 (1)	0.75		STRAIGHT AHEAD DIRECTIONAL ARROW
293+70 RT	5.52	1.31	M6-1 (1)	0.75	13.8	LEFT TURN DIRECTIONAL ARROW
	-	-	M6-3 (1)	0.75		STRAIGHT AHEAD DIRECTIONAL ARROW
<b>MARION HIGH SCHOOL</b>						
294+00 RT	5.52	1.31	M6-1 (1)	0.75	13.8	RIGHT TURN DIRECTIONAL ARROW
	-	-	M6-3 (1)	0.75		STRAIGHT AHEAD DIRECTIONAL ARROW
311+00 RT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
317+60 RT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
322+50 RT	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
PARKING AREA	5.52	1.31	M6-3 (1)	0.75	13.8	Coordinate w/High School Staff for Sign Placement
PARKING AREA	5.52	1.31	M6-3 (1)	0.75	13.8	Coordinate w/High School Staff for Sign Placement
<b>CARBON STREET</b>						
As Determined by the Engineer	5.52	1.31	M6-1 (1)	0.75	13.8	RIGHT TURN DIRECTIONAL ARROW
			M6-1 (1)	0.75		LEFT TURN DIRECTIONAL ARROW
As Determined by the Engineer	5.52	1.31	M6-1 (1)	0.75	13.8	RIGHT TURN DIRECTIONAL ARROW
			M6-1 (1)	0.75		LEFT TURN DIRECTIONAL ARROW
As Determined by the Engineer	5.52	1.31	M6-3 (2)	1.5	13.8	STRAIGHT AHEAD DIRECTIONAL ARROW
<b>TOTALS</b>	<b>121.44</b>	<b>28.82</b>		<b>31.5</b>	<b>303.6</b>	

CONTRACT NO.: 99700

## MILE MARKER POST SCHEDULE

* LOCATION/STATION	X2600030 MILE MARKER POST EACH
<b>CONWR</b>	5
<b>TIMMONS STATION ROAD</b>	2
<b>WESTMINSTER ROAD</b>	1
<b>FOSSE ROAD</b>	1
<b>MARION HIGH SCHOOL</b>	2
<b>TOTALS</b>	<b>11</b>

\* Location as determined by the Engineer.

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	14	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>NO.</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS		DATE	NO.							<p>© 2021 ALL RIGHTS RESERVED</p> <p><b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b></p> <p>410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750</p> <p><b>SCHEDULES</b> <b>CRAB ORCHARD GREENWAY</b> <b>WILLIAMSON COUNTY, ILLINOIS</b></p>
REVISIONS											
DATE	NO.										
Date 10/2022	DR. By CWB Ok'D By CWB										
Scale	Job No. 21157 Sheet No. 14 of 156										

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	15	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



WESTERNAIRE CREEK TRIBUTARY

WESTERNAIRE CREEK

CAMPGROUND CREEK

EAST FORK CAMPGROUND CREEK

PROPOSED DOUBLE CELL 11'X4' RCB CULVERTS

PROPOSED TRIPLE CELL 11'X6' RCB CULVERTS

PROPOSED DOUBLE CELL 12'X5' RCB CULVERTS

PROPOSED TRIPLE CELL 11'X6' RCB CULVERTS

PROPOSED 6'X2' RCB CULVERT

PROPOSED TRIPLE CELL 11'X6' RCB CULVERTS

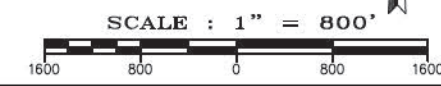
PROPOSED 7'X3' RCB CULVERT

PROJECT BEGINS STA. 58+50.00

PROJECT ENDS STA. 322+50.00

TRAIL CONSTRUCTION BY IDOT

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 05 - GENERAL LAYOUT.dwg 4-24-23 12:39:07 PM mkrumrey



STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
© 2021 ALL RIGHTS RESERVED	
<b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b>	
410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>GENERAL LAYOUT CRAB ORCHARD GREENWAY WILLIAMSON COUNTY, ILLINOIS</b>	
Date: FEB. 2023	DR. By: CWB
Scale: SCALE	Job No.: 21157
Sheet No.: 15	of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	16	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 06 - EXISTING CONDITIONS & REMOVALS.dwg 4-24-23 12:39:26 PM mkrumrey

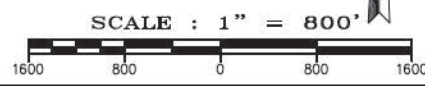
STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**EXISTING CONDITIONS AND REMOVALS  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

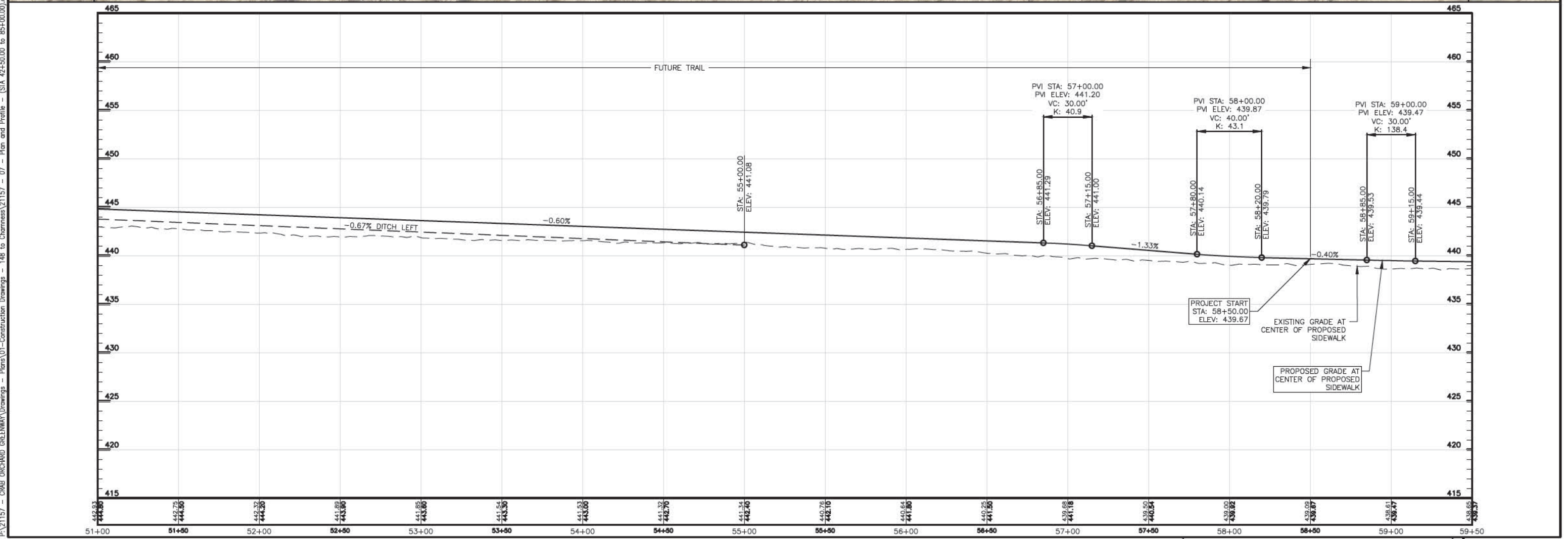
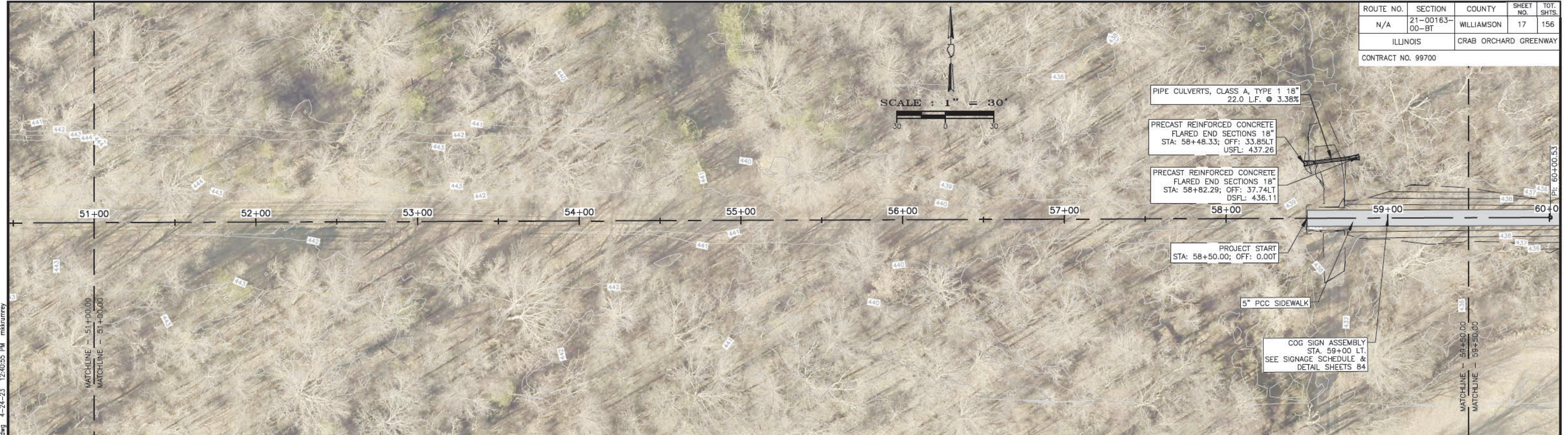
Date: FEB. 2023 DR. By: CWB CK'D By: CWB  
 Scale: SCALE Job No.: 21157 Sheet No.: 16 of 156



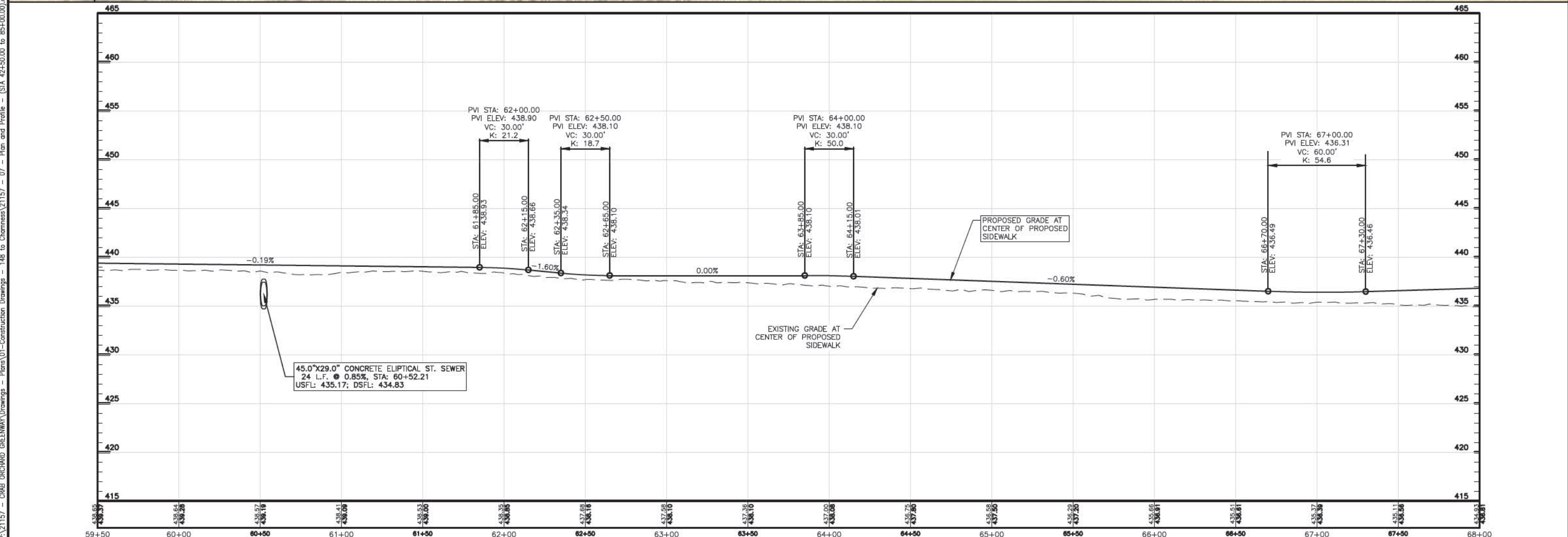
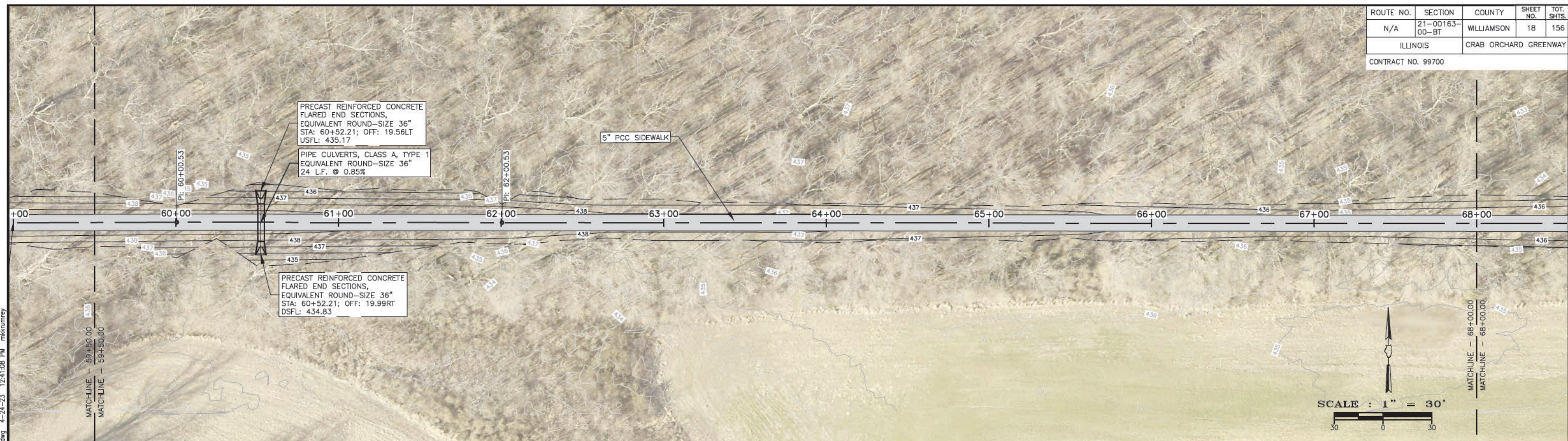


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	17	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\01-Construction Drawings - 148 to Charness\21157 - 07 - Plan and Profile - (STA 42+50.00 to 85+00.00).dwg 4-24-23 12:40:55 PM mtkrumrey



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	18	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



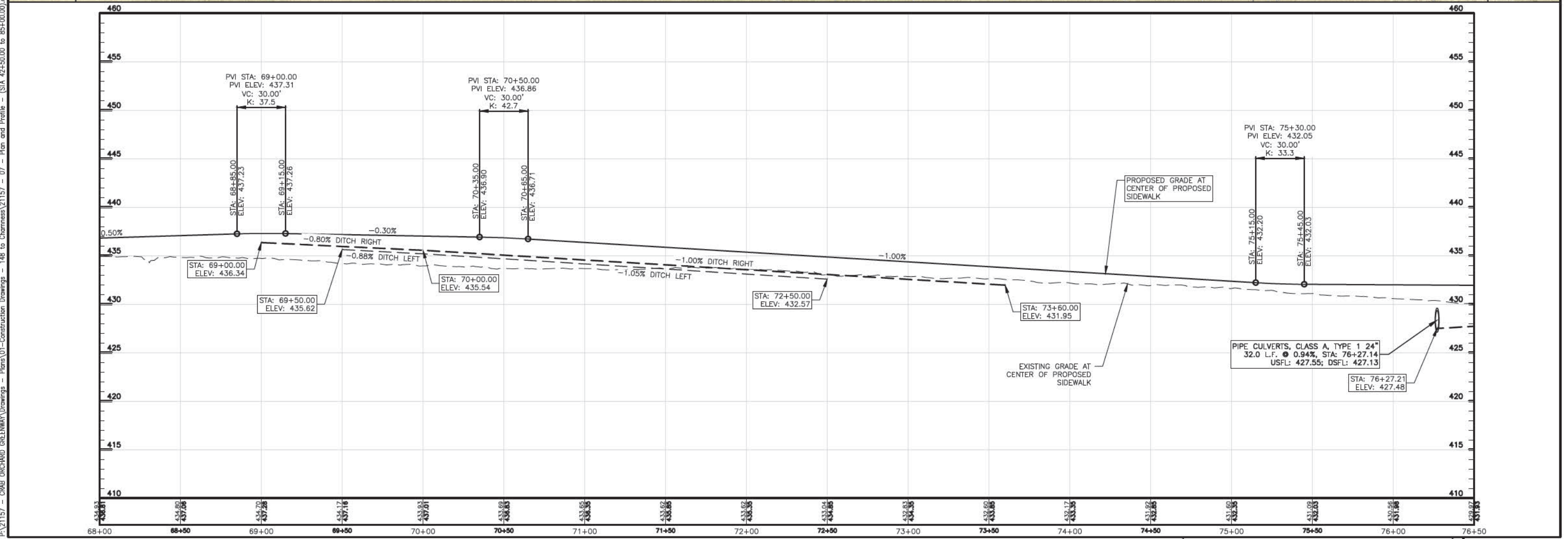
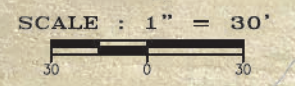
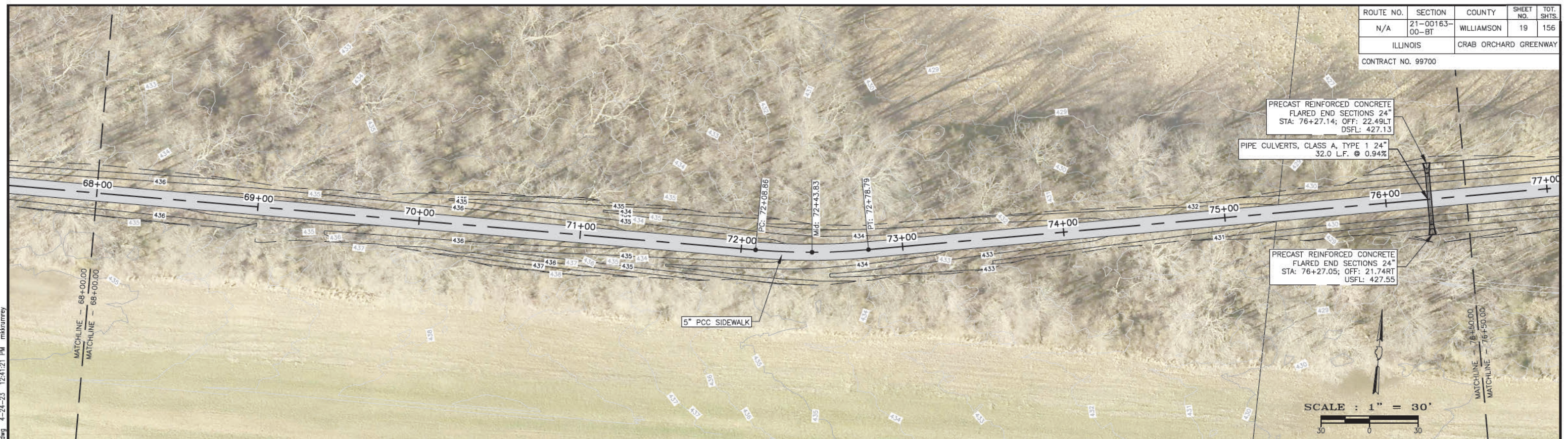
45.0"x29.0" CONCRETE ELLIPTICAL ST. SEWER  
 24 L.F. @ 0.85%, STA: 60+52.21  
 USFL: 435.17; DSFL: 434.83

PROPOSED GRADE AT CENTER OF PROPOSED SIDEWALK

EXISTING GRADE AT CENTER OF PROPOSED SIDEWALK

P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\01-Construction Drawings - 148 to Charness\21157 - 07 - Plan and Profile - (STA 42+50.00 to 85+00.00).dwg 4-24-23 12:41:08 PM mtkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	19	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



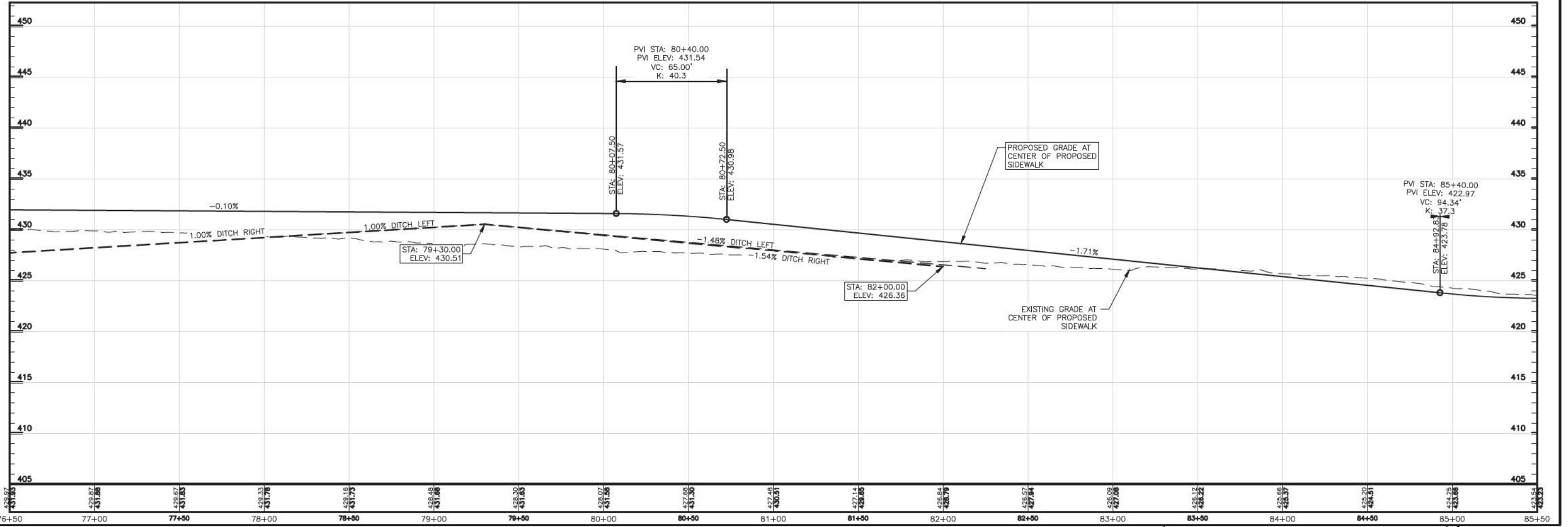
P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\01-Construction Drawings - 148 to Charness\21157 - 07 - Plan and Profile - (STA 68+00.00 to 85+00.00).dwg 4-24-23 12:41:21 PM mtkraunrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	20	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

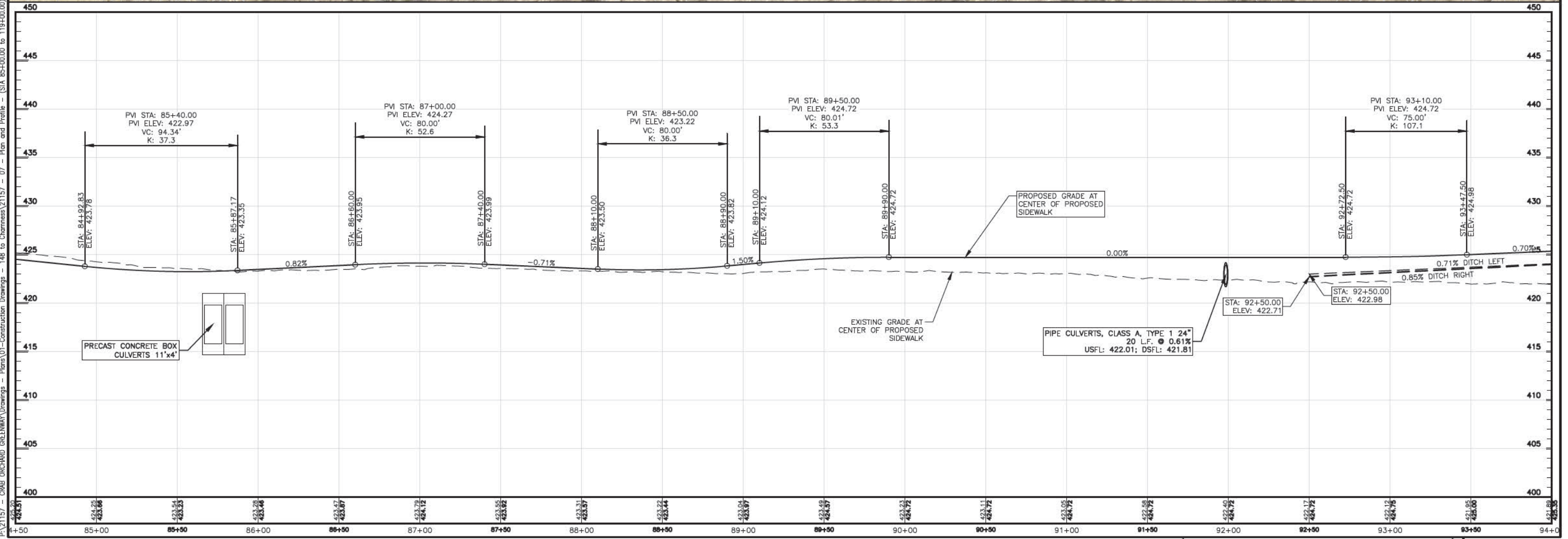
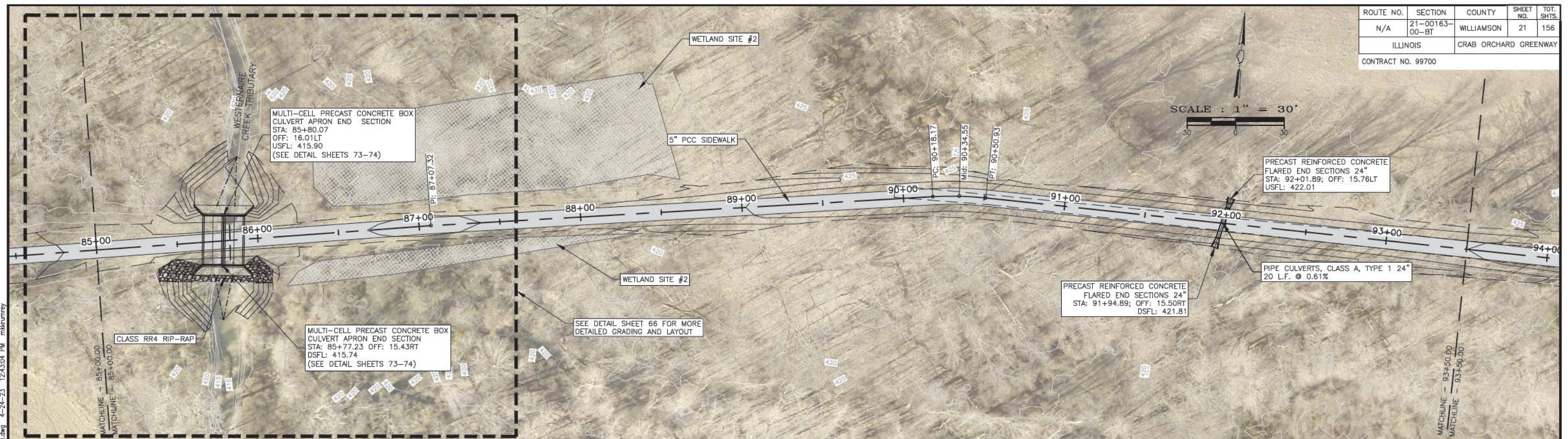


SCALE : 1" = 30'

P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\01-Construction Drawings - 148 to Charness\21157 - 07 - Plan and Profile - (STA 42+50.00 to 85+00.00).dwg 4-24-23 12:41:32 PM mtkrauney



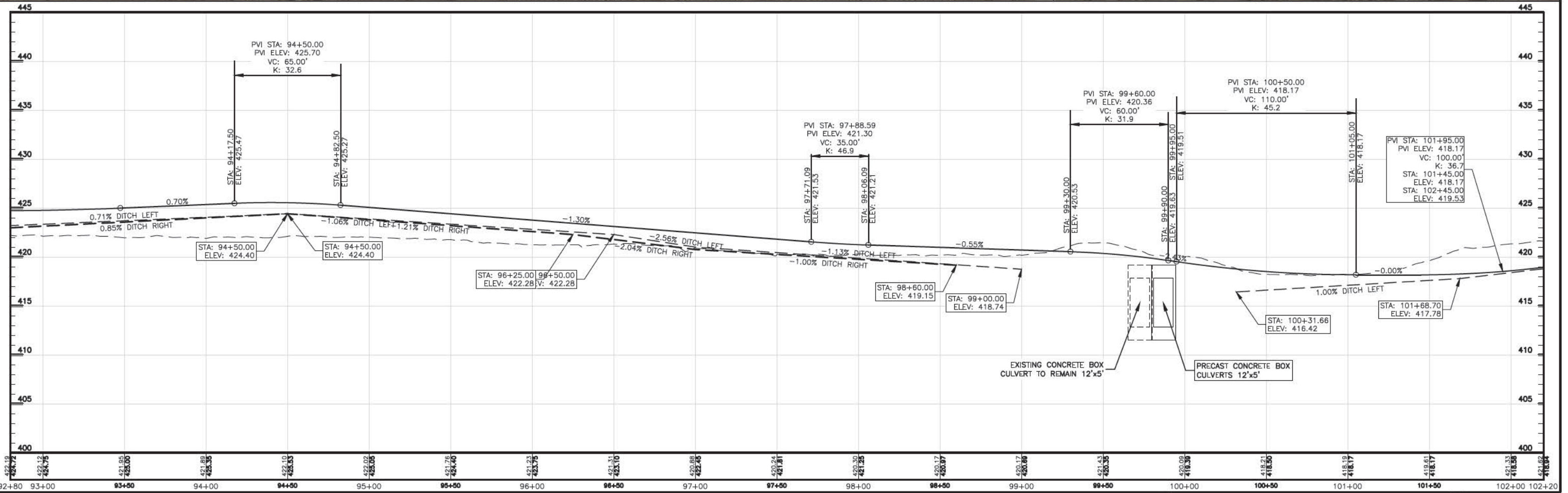
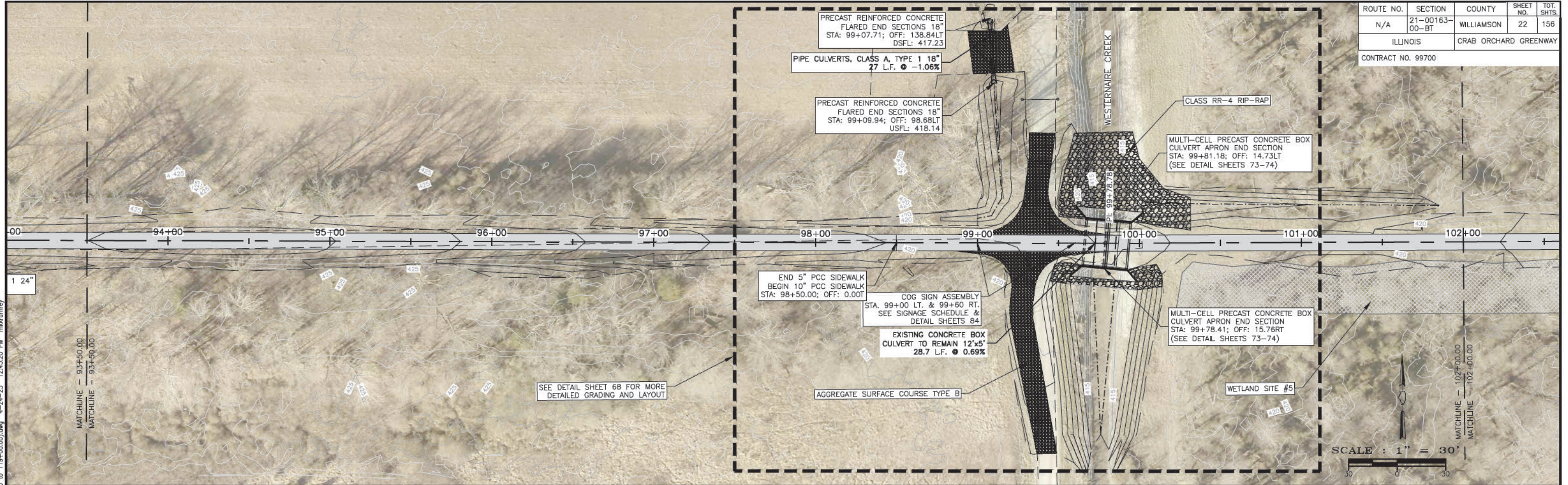
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	21	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



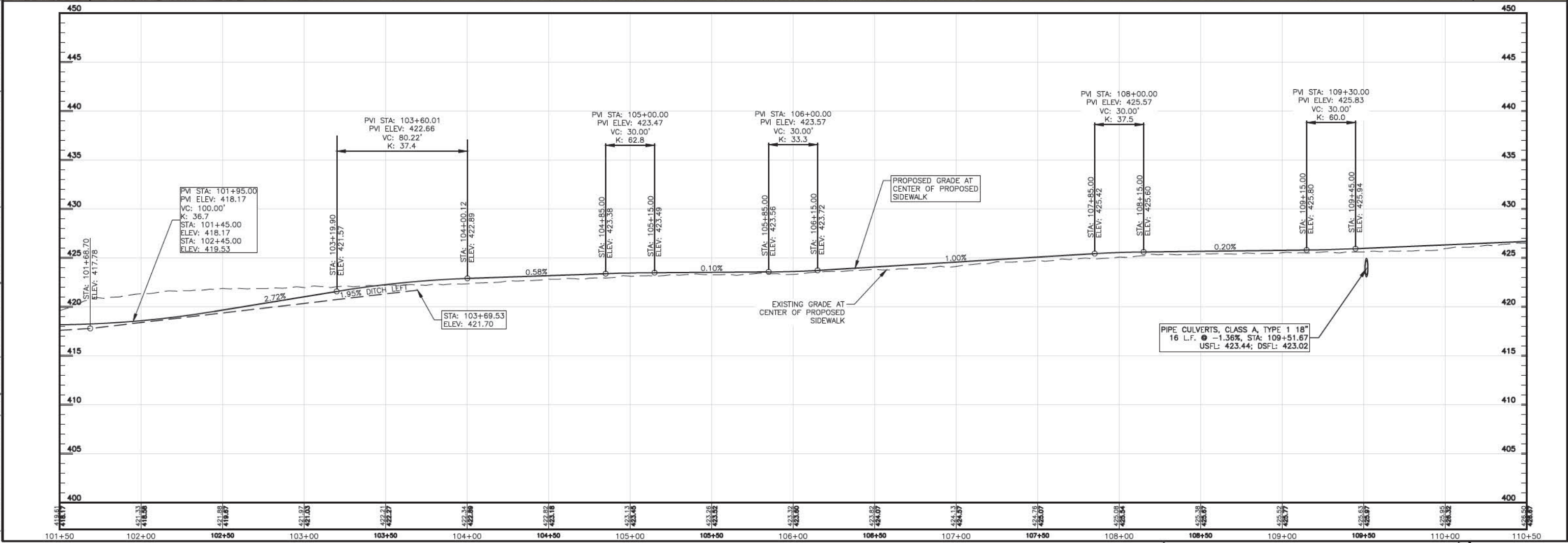
P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\01-Construction Drawings - 148 to Chermess\21157 - 07 - Plan and Profile - (STA 85+00.00 to 119+00.00).dwg 4-24-23 12:43:04 PM m.krumrey

PA\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\01-Construction Drawings - 148 to Chermess\21157 - 07 - Plan and Profile - (STA 85+00.00 to 119+00.00).dwg 4-24-23 12:43:20 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	22	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

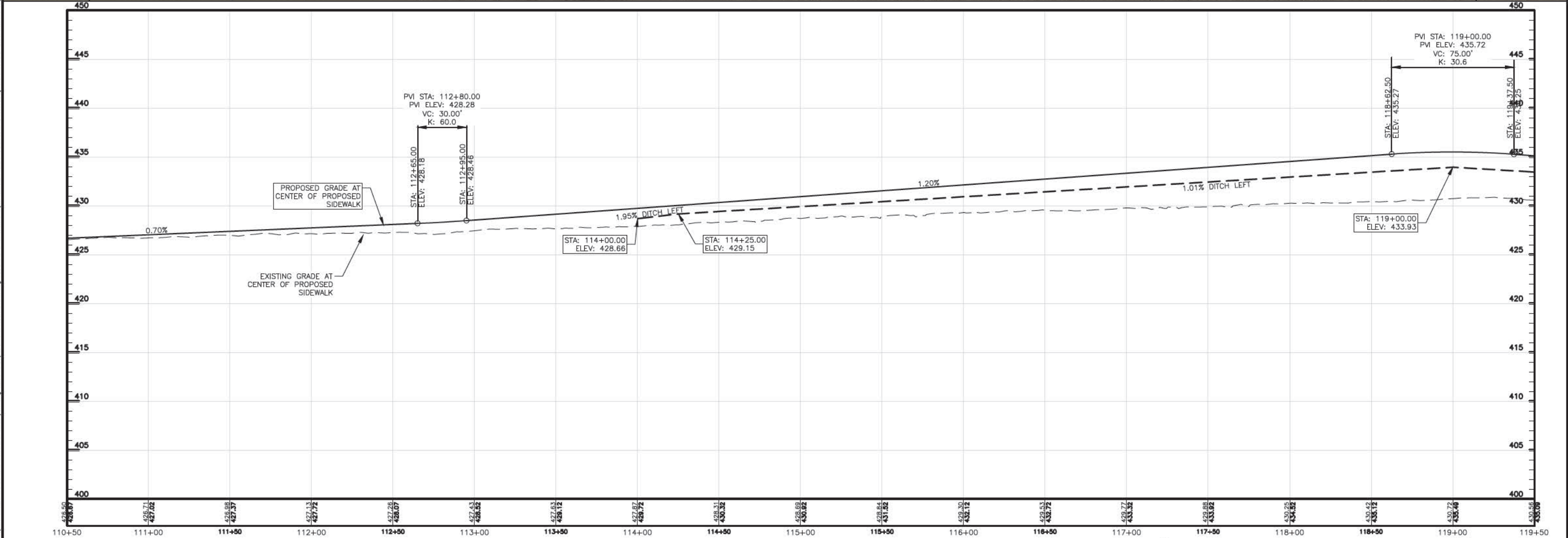


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	23	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



PA:21157 - CRAB ORCHARD GREENWAY Drawings - Plans\01-Construction Drawings - 148 to Chermess\21157 - 07 - Plan and Profile - (STA 85+00.00 to 119+00.00).dwg 4-24-23 12:43:34 PM mkrumrey

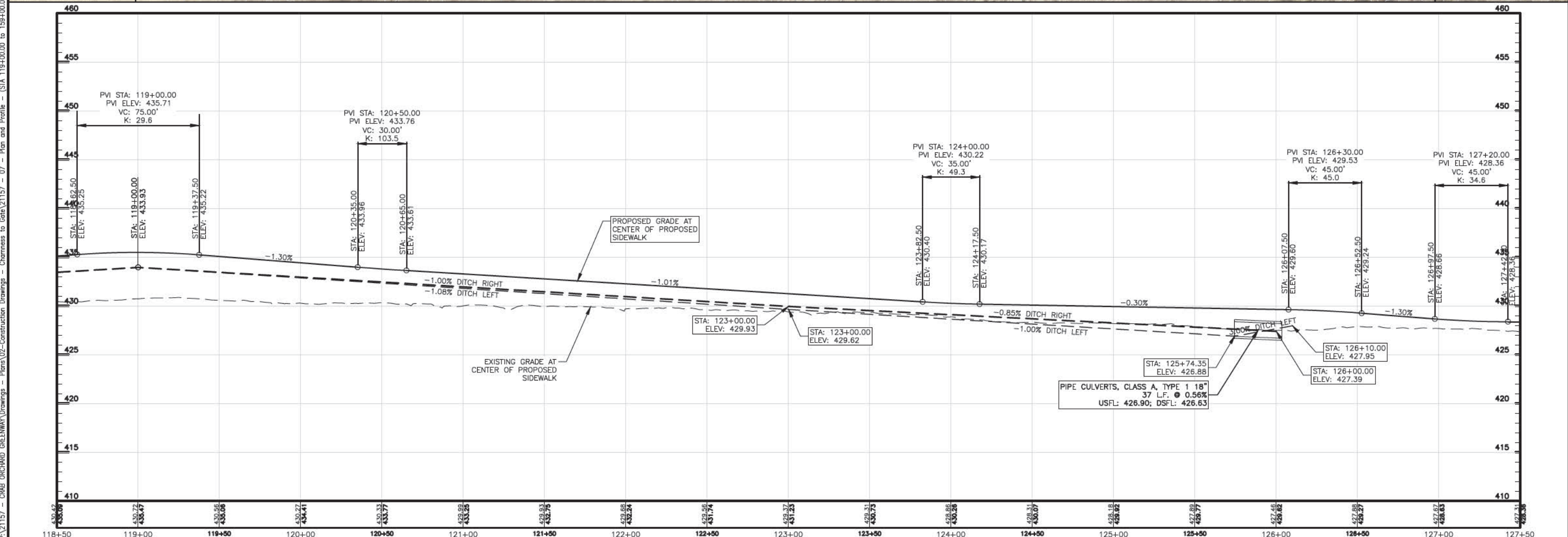
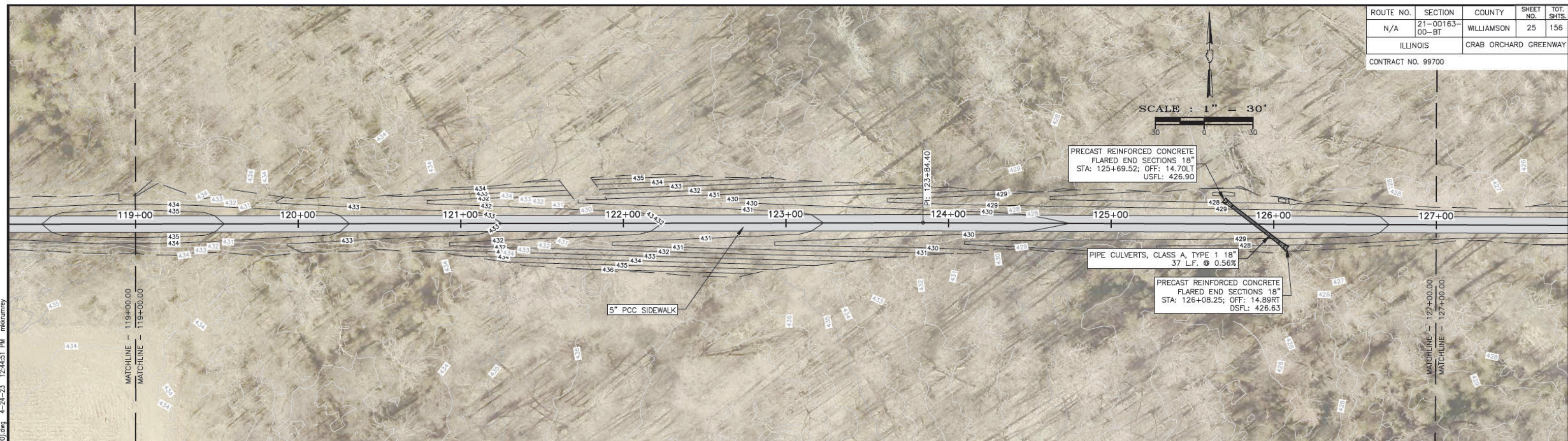
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	24	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\01-Construction Drawings - 148 to Charness\21157 - 07 - Plan and Profile - (STA 85+00.00 to 119+00.00).dwg 4-24-23 12:43:49 PM mkrumrey

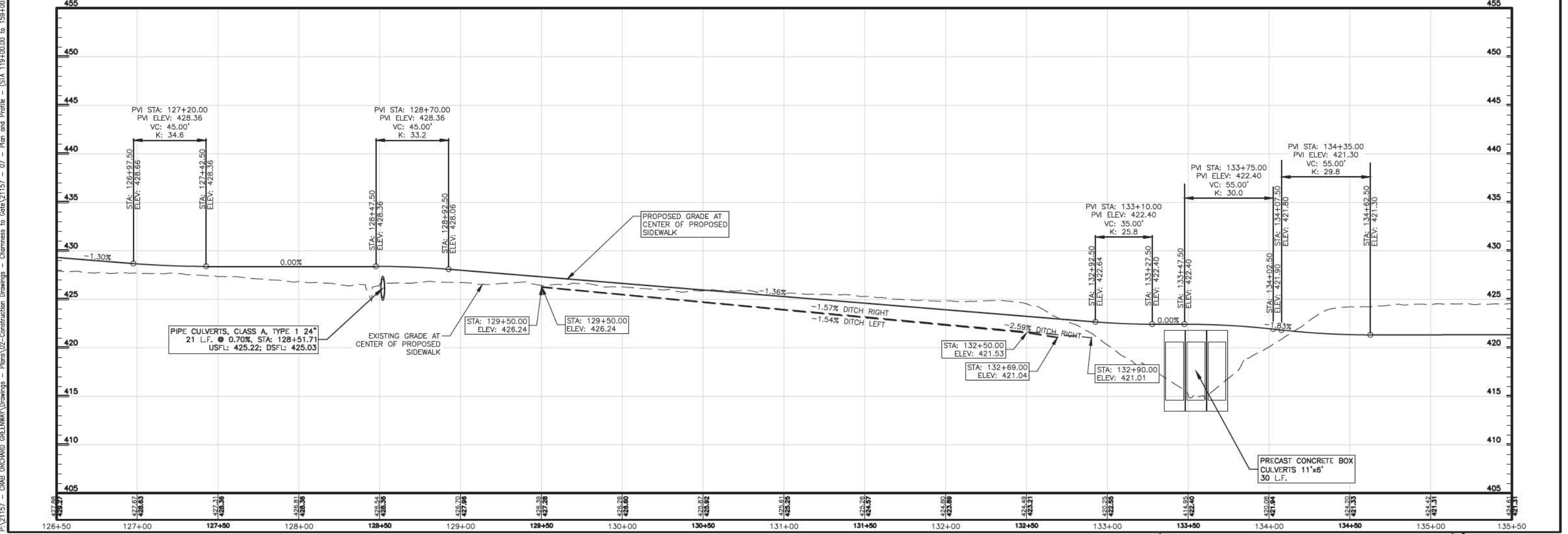
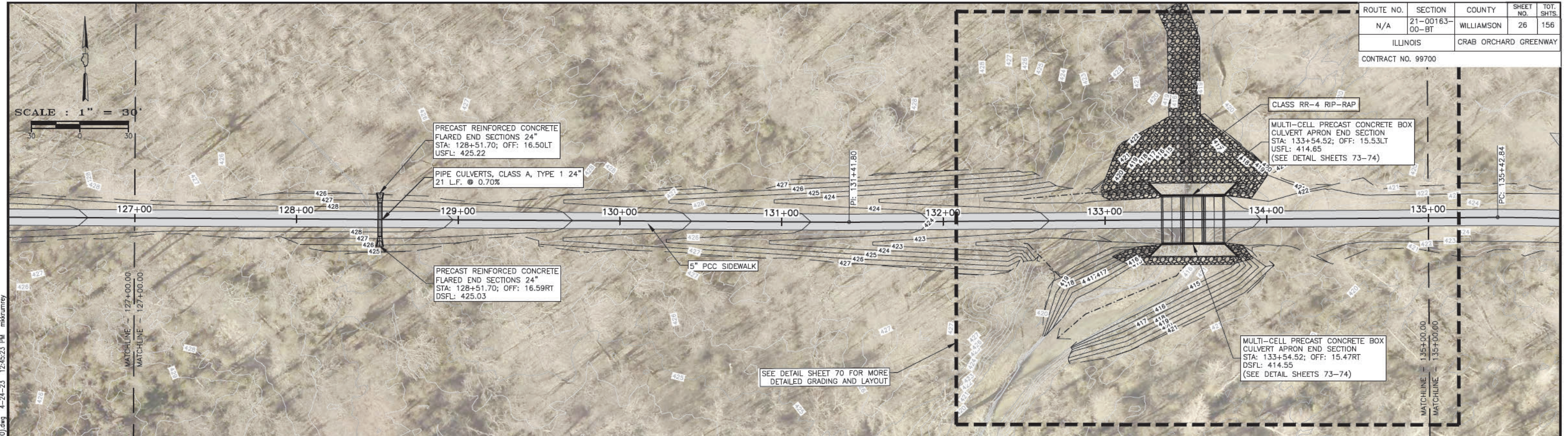


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	25	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



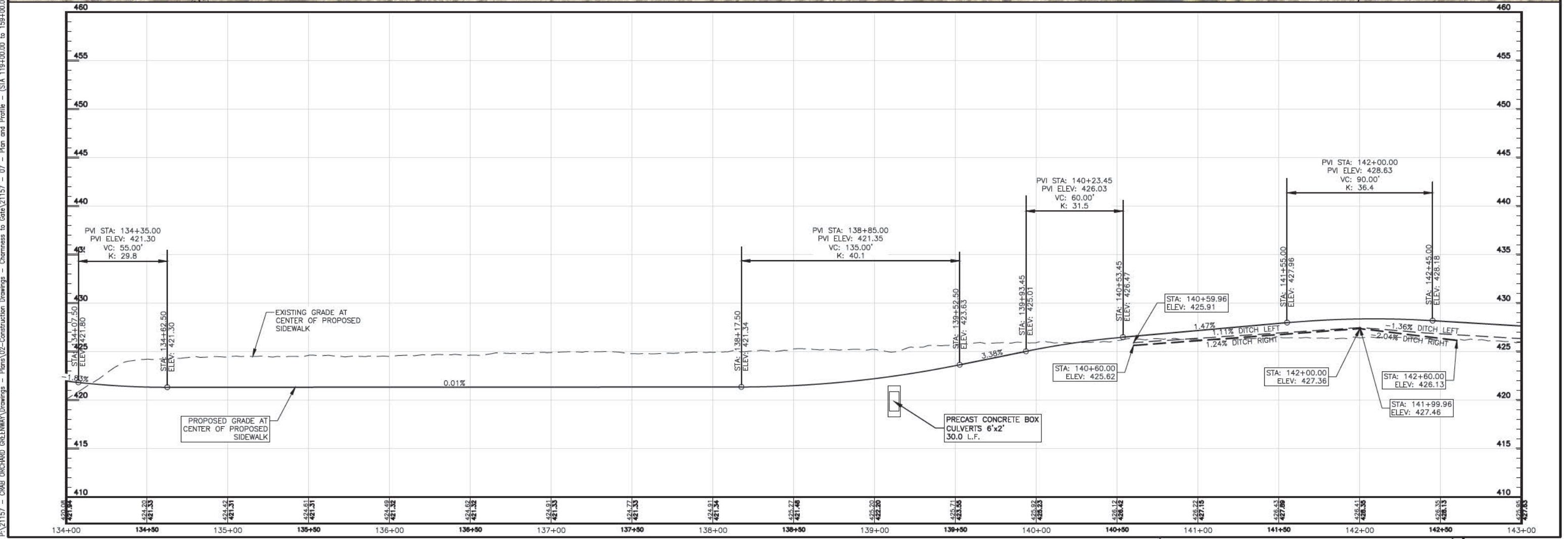
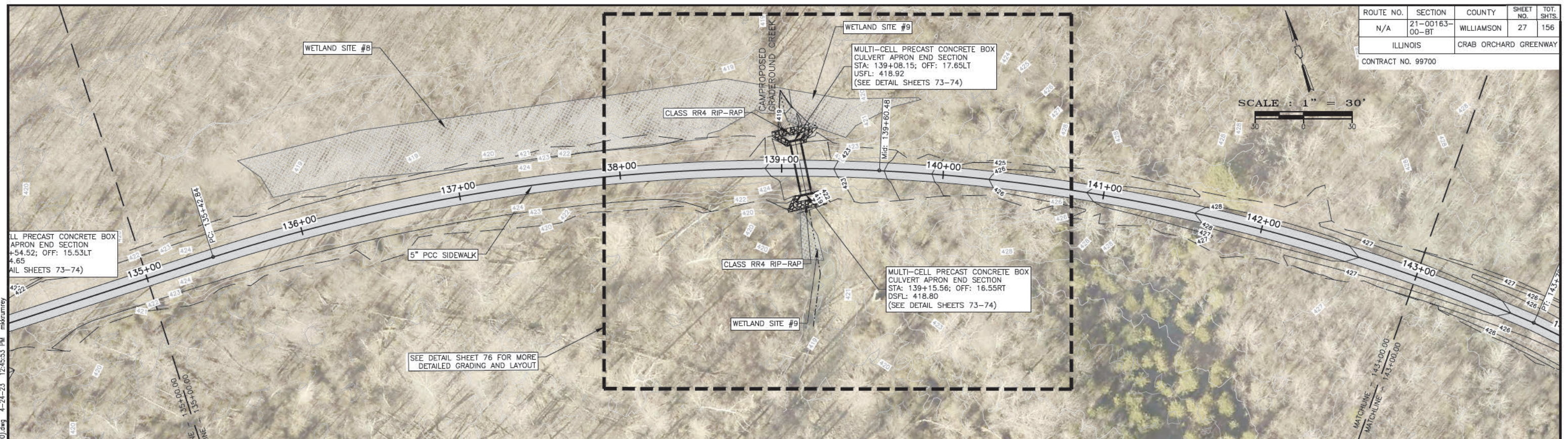
P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chenness to Cat\21157 - 07 - Plan and Profile - (STA 119+00.00 to 159+00.00).dwg 4-24-23 12:44:51 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	26	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chermess to Cat\21157 - 07 - Plan and Profile - (STA 119+00.00 to 159+00.00).dwg 4-24-23 12:45:23 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	27	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

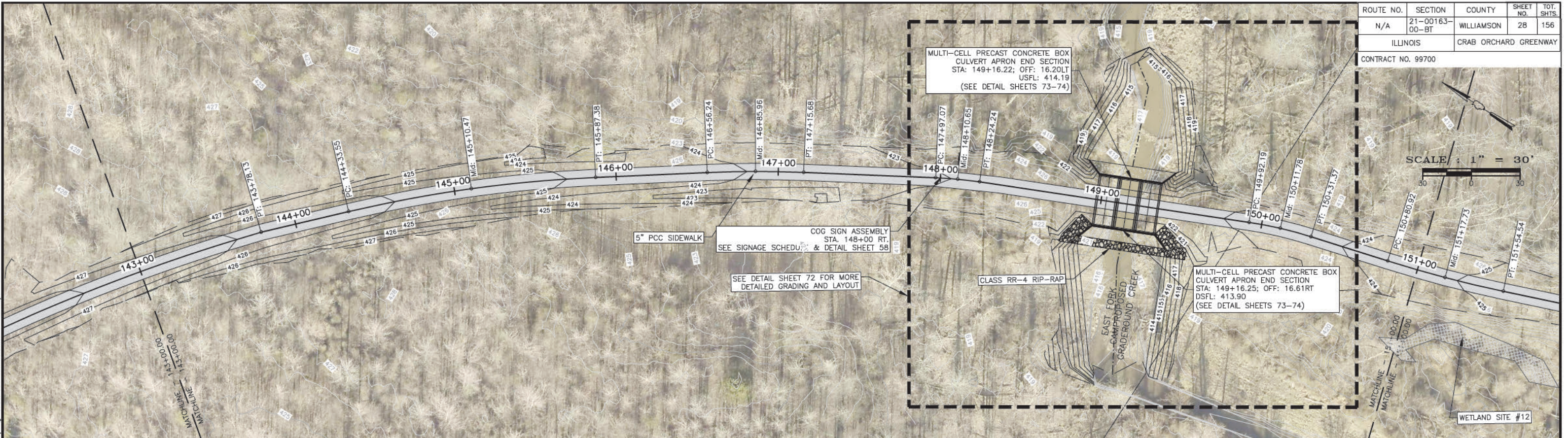


P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Chenness to Cat\21157 - 07 - Plan and Profile - (STA 135+00.00 to 143+00.00).dwg 4-24-23 12:45:53 PM mkrumrey

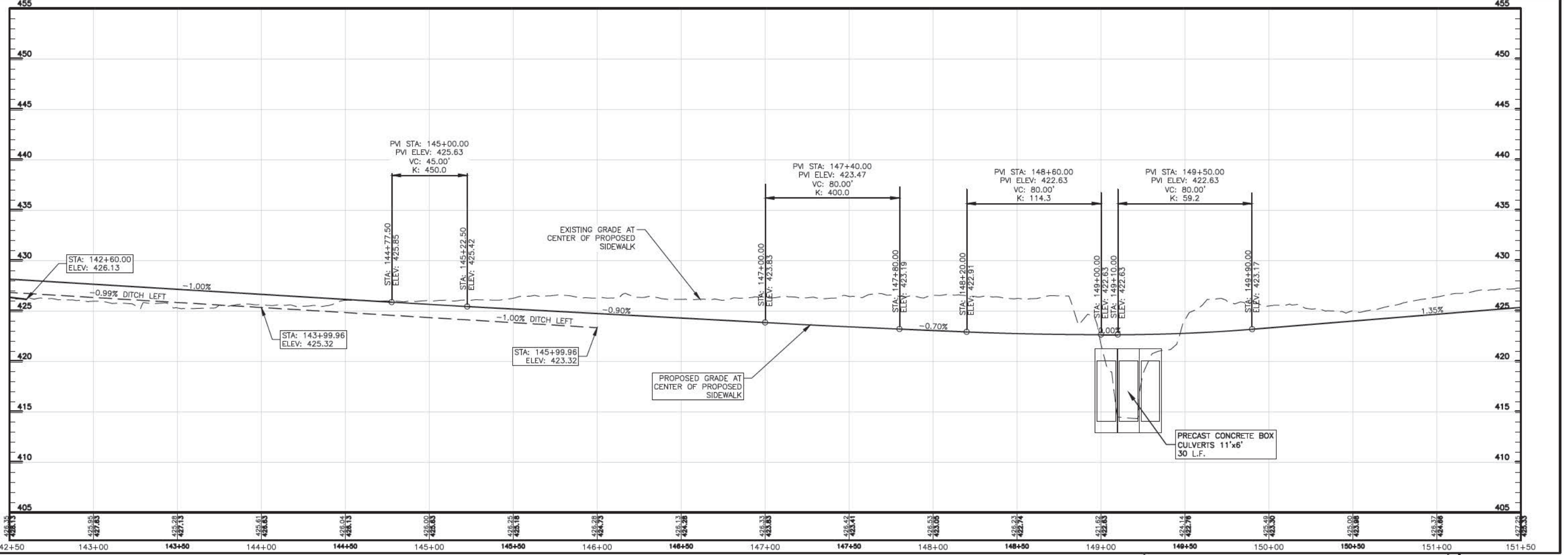
PA\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chemness to Cat\21157 - 07 - Plan and Profile - (STA 143+00.00 to 151+00.00).dwg 4-24-23 12:46:24 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	28	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

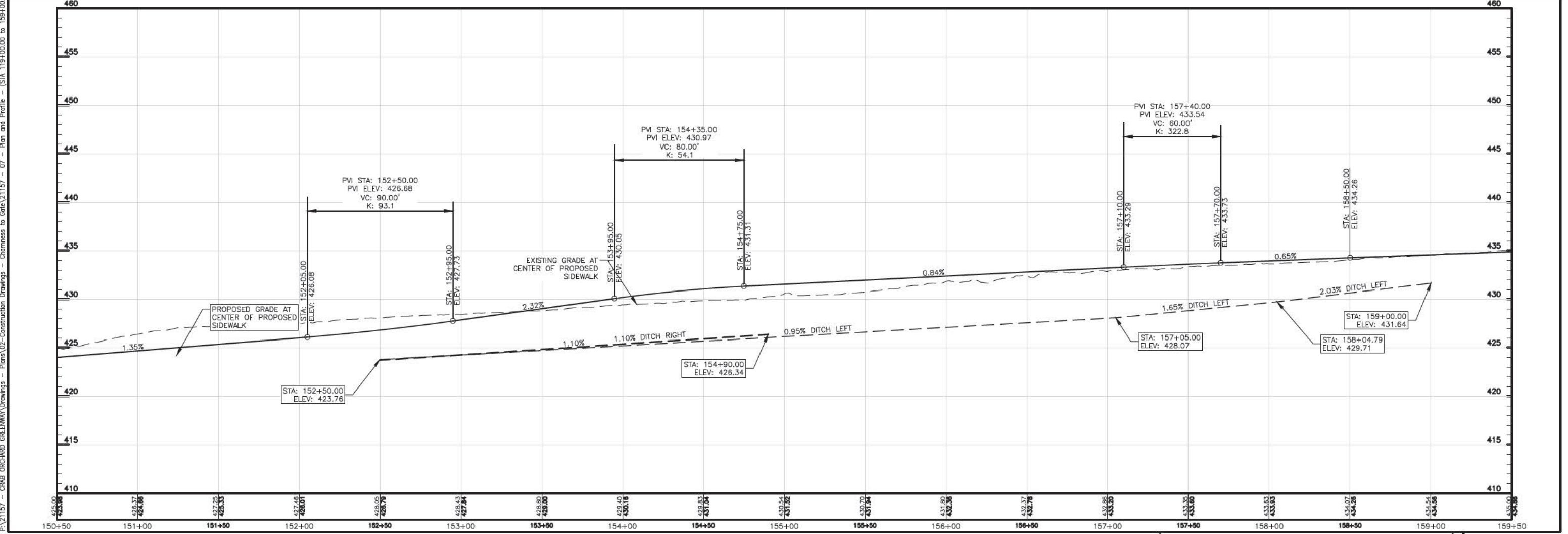


SCALE : 1" = 30'



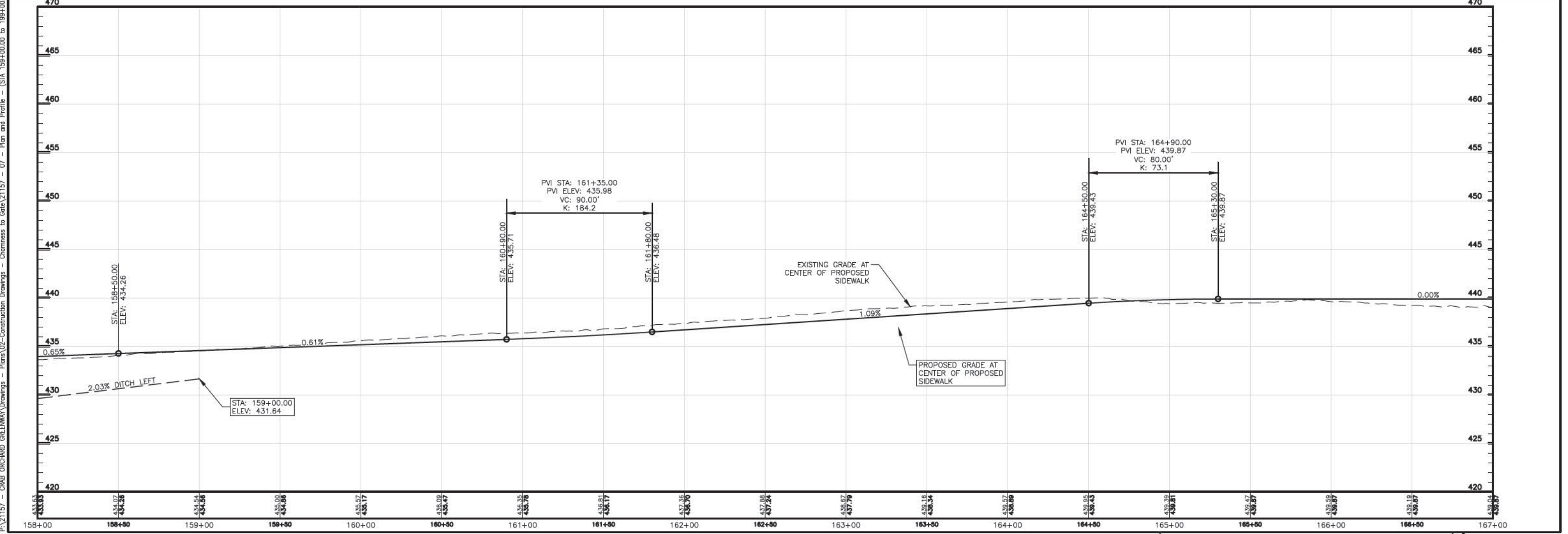
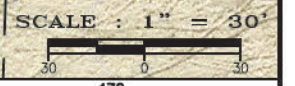
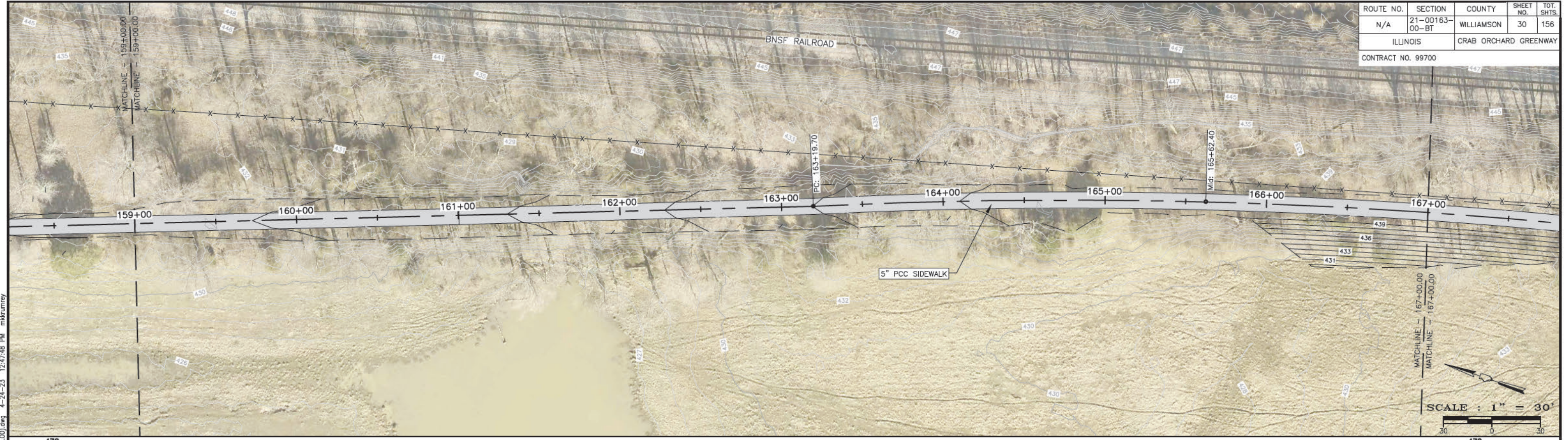
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	29	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

SCALE : 1" = 30'



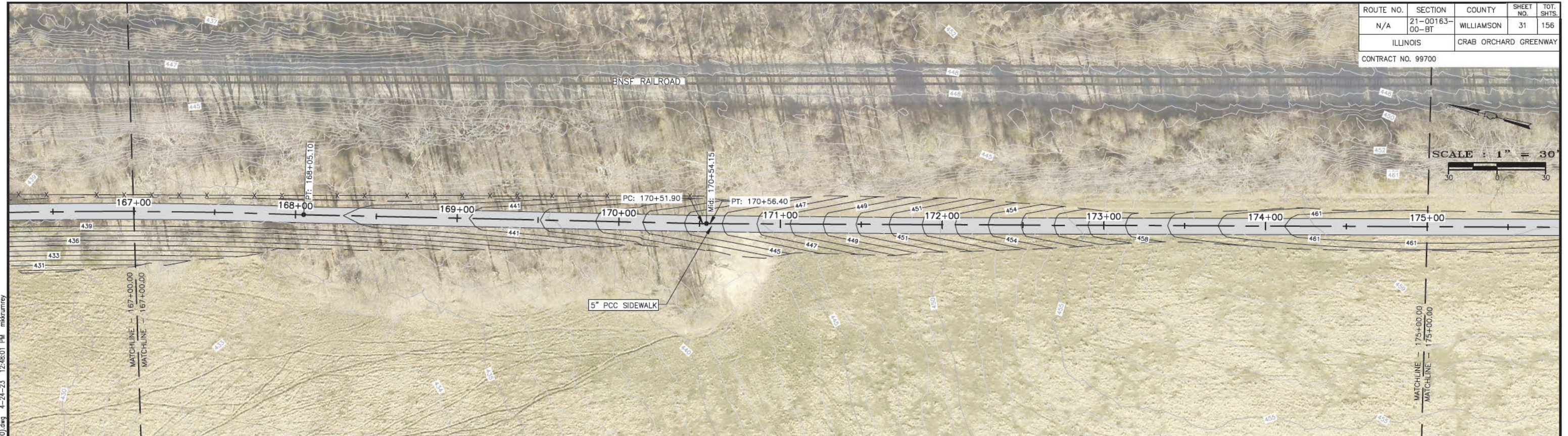
PA\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chermess to Cat\21157 - 07 - Plan and Profile - (STA 119+00.00 to 159+00.00).dwg 4-24-23 12:46:57 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	30	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

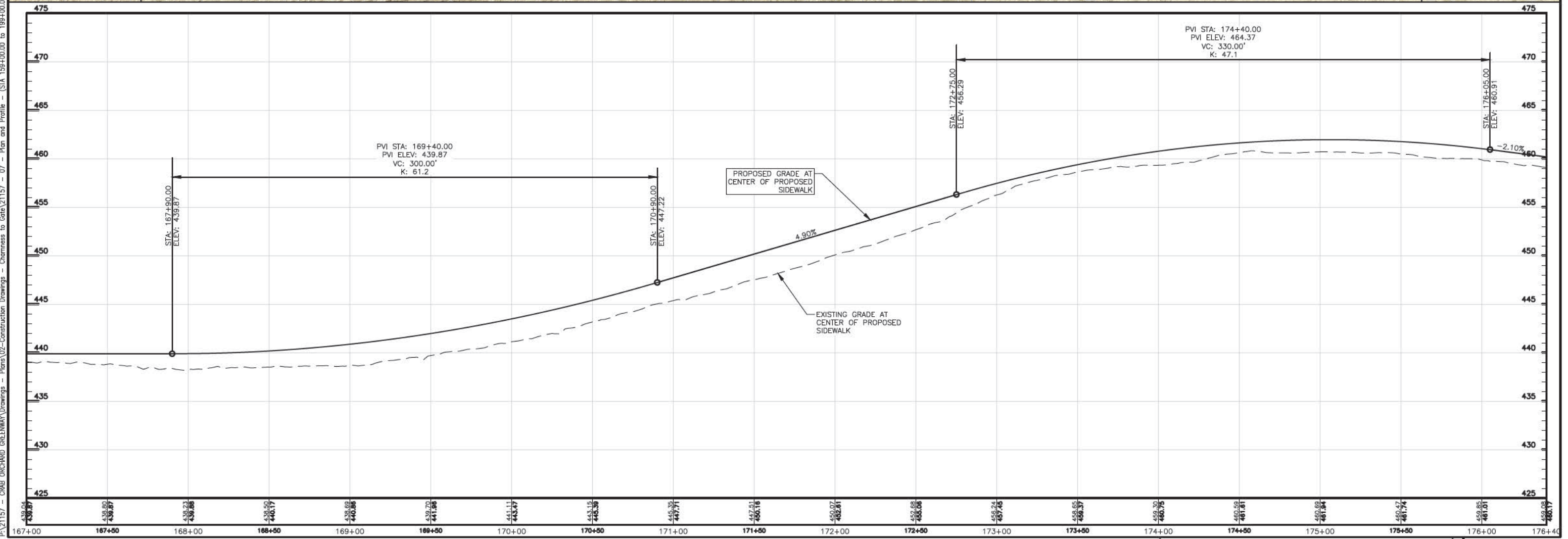


P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chemness to Cat\21157 - 07 - Plan and Profile - (STA 159+00.00 to 167+00.00).dwg 4-24-23 12:47:48 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	31	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

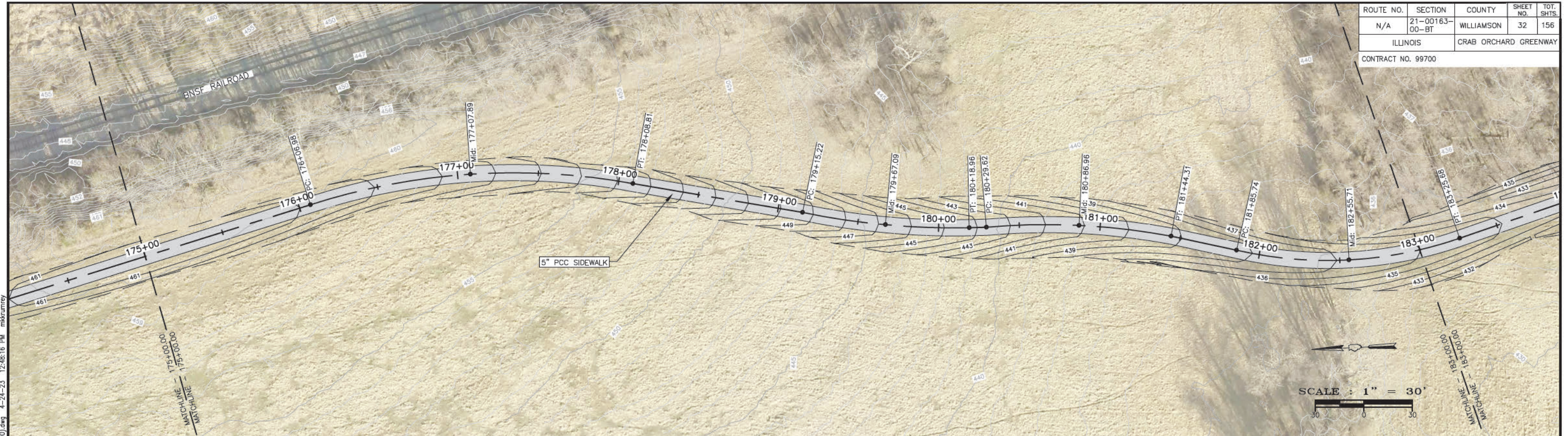


SCALE : 1" = 30'

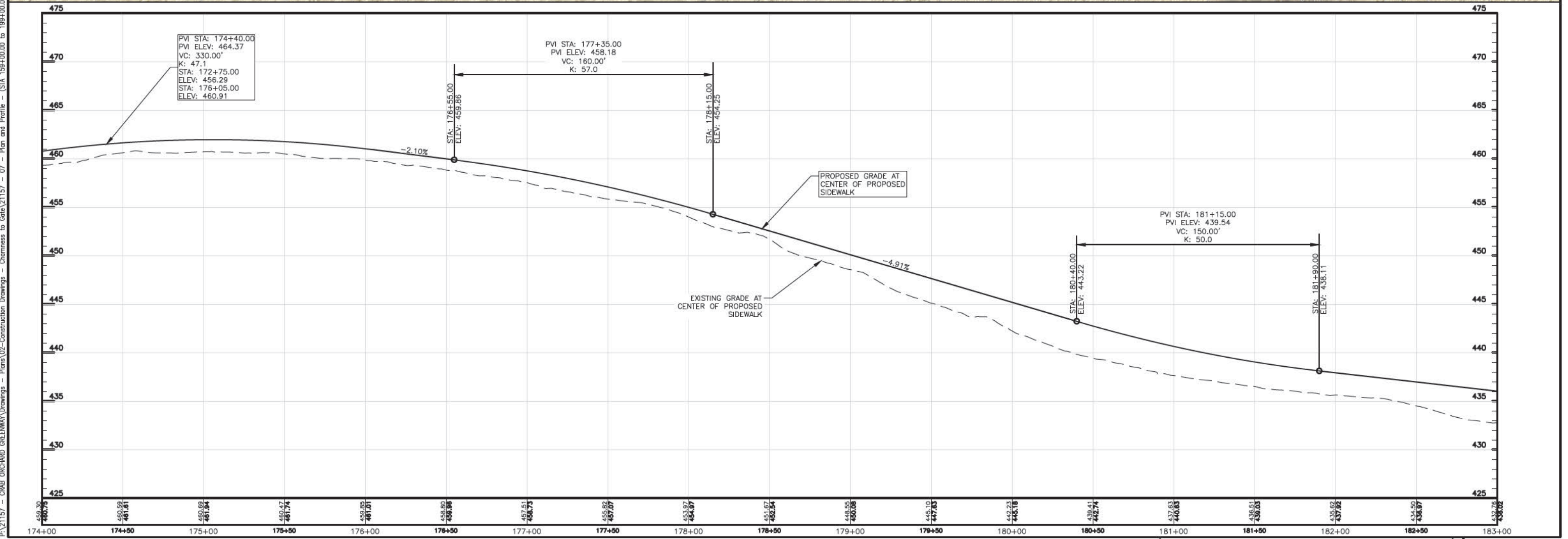


P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Chienness to Crab\21157 - 07 - Plan and Profile - (STA 167+00.00 to 199+00.00).dwg 4-24-23 12:48:01 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	32	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



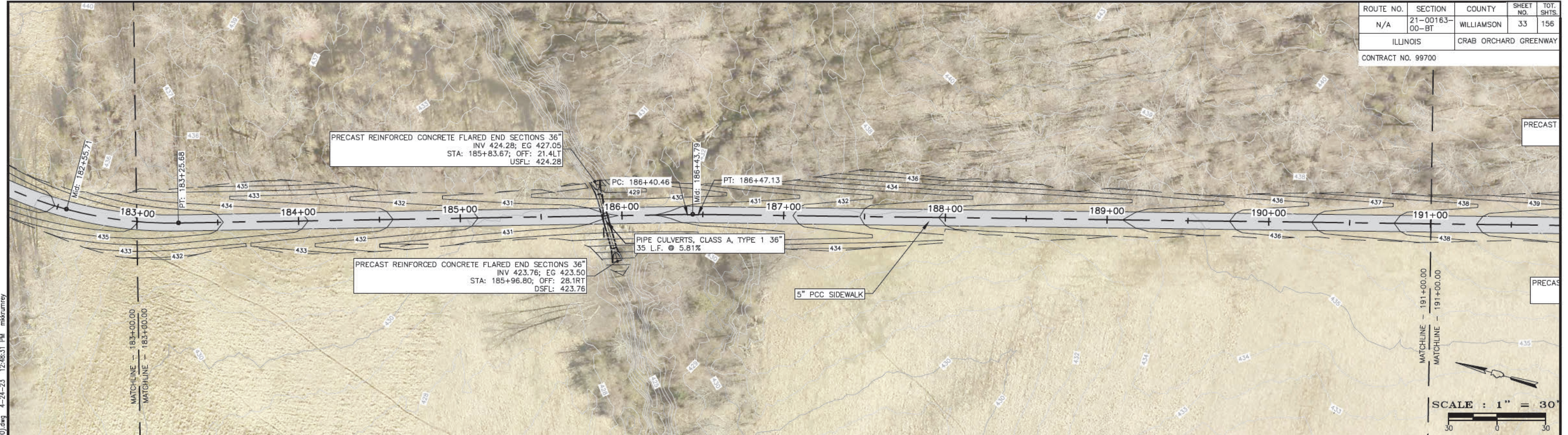
SCALE : 1" = 30'



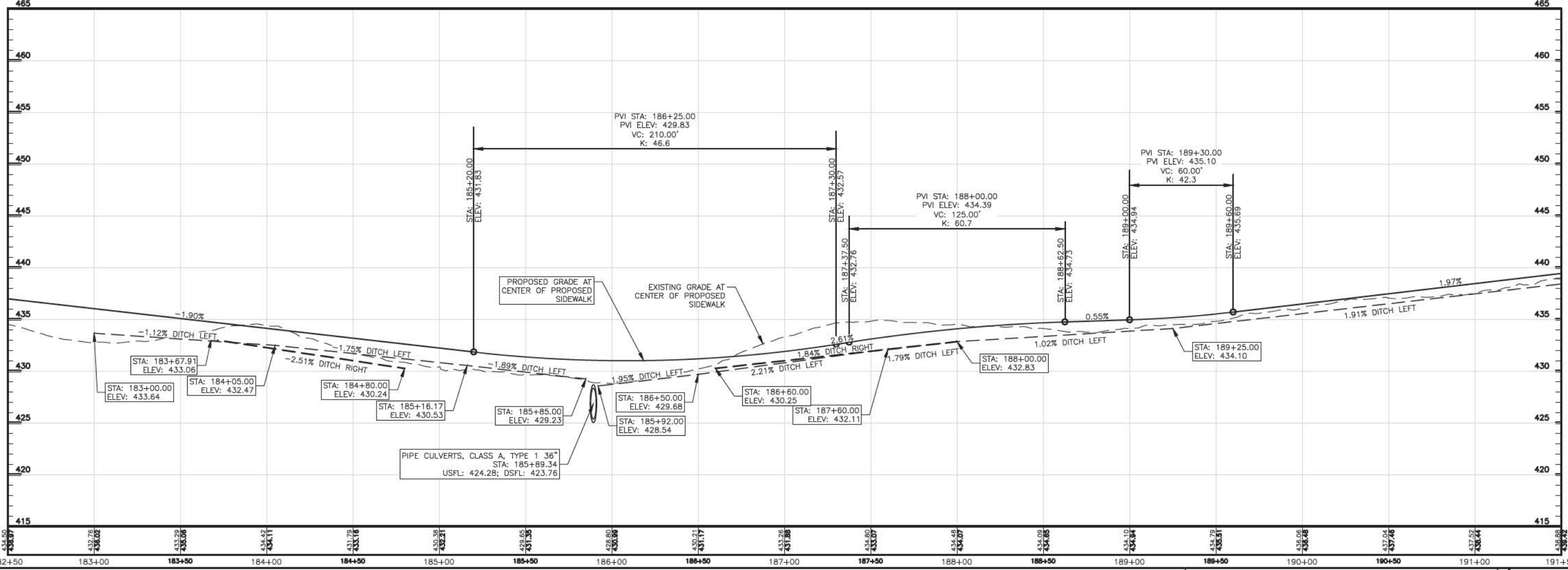
P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chemsness to Cat\21157 - 07 - Plan and Profile - (STA 175+00.00 to 183+00.00).dwg 4-24-23 12:48:16 PM mkrumrey



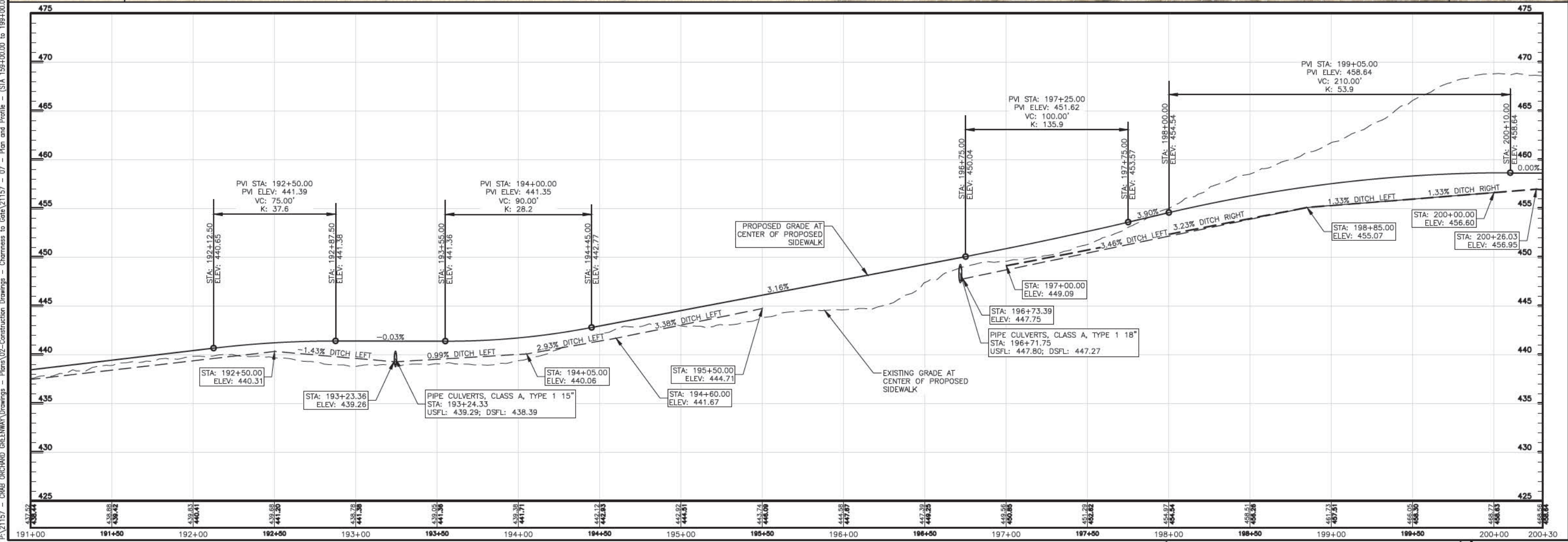
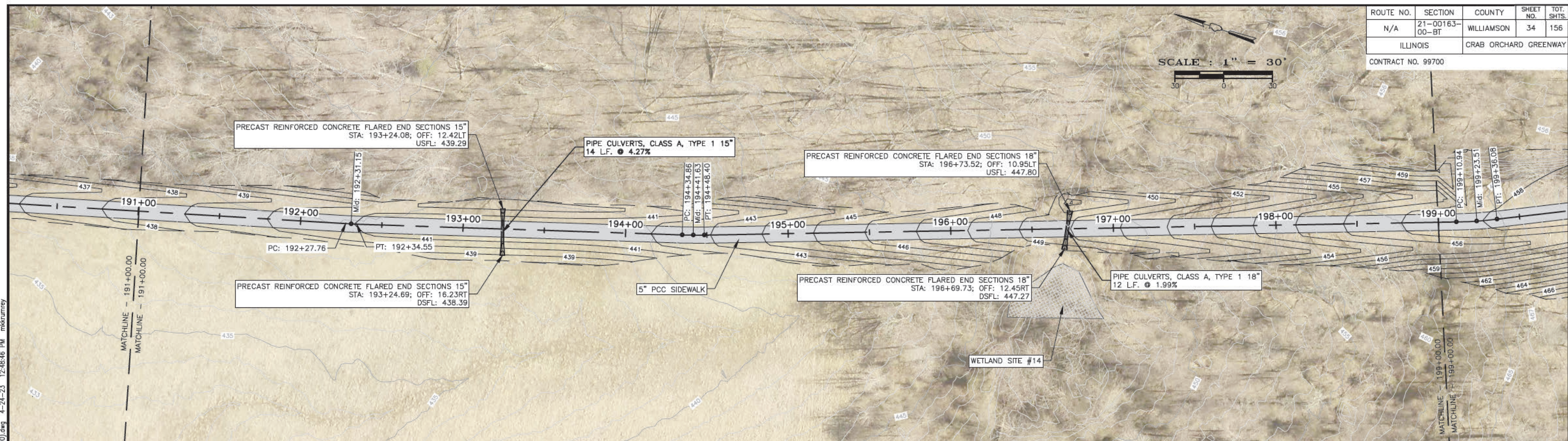
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	33	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chertness to Catch\21157 - 07 - Plan and Profile - (STA 183+00.00 to 191+00.00).dwg 4-24-23 12:48:31 PM mkrumrey

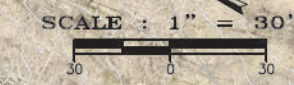


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	34	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

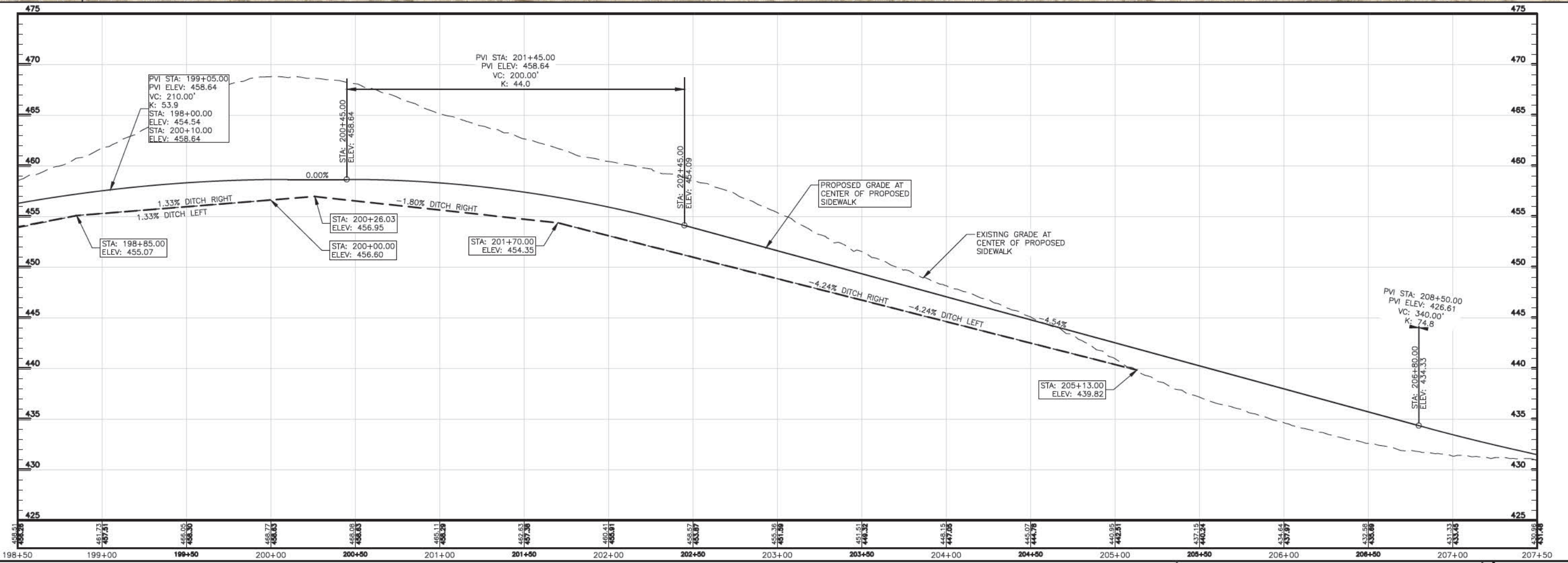


P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Chienness to Cat\21157 - 07 - Plan and Profile - (STA 191+00.00 to 199+00.00).dwg 4-24-23 12:48:46 PM mkrumrey

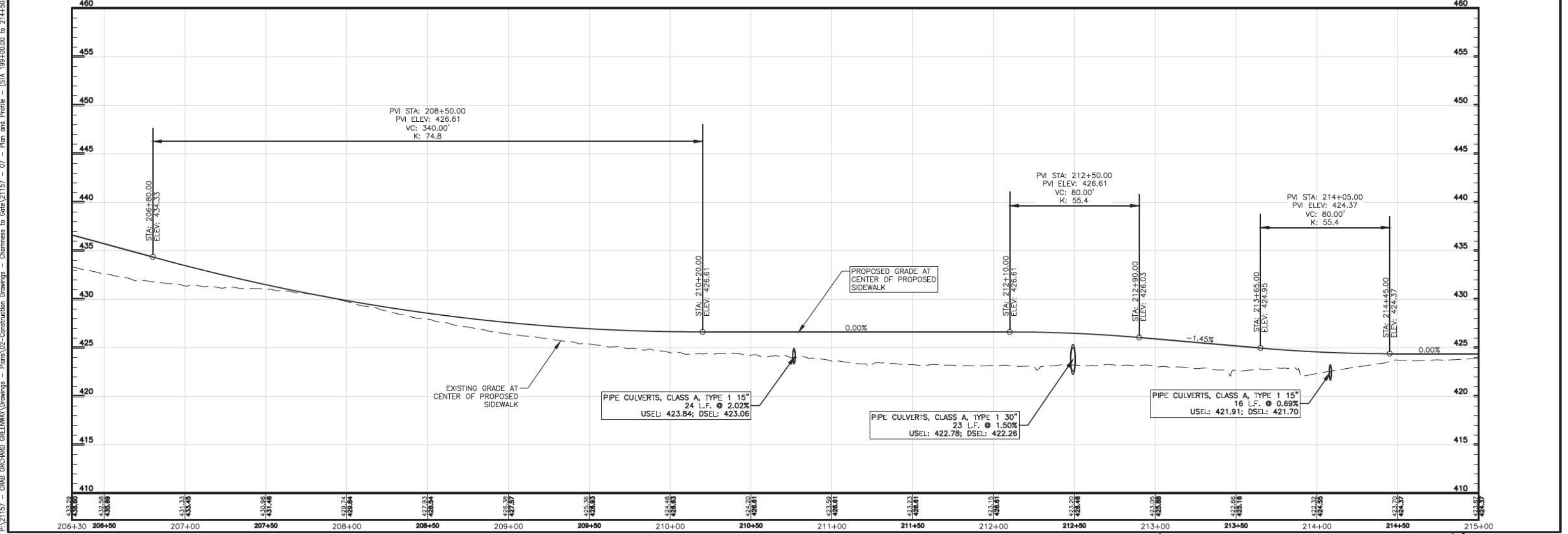
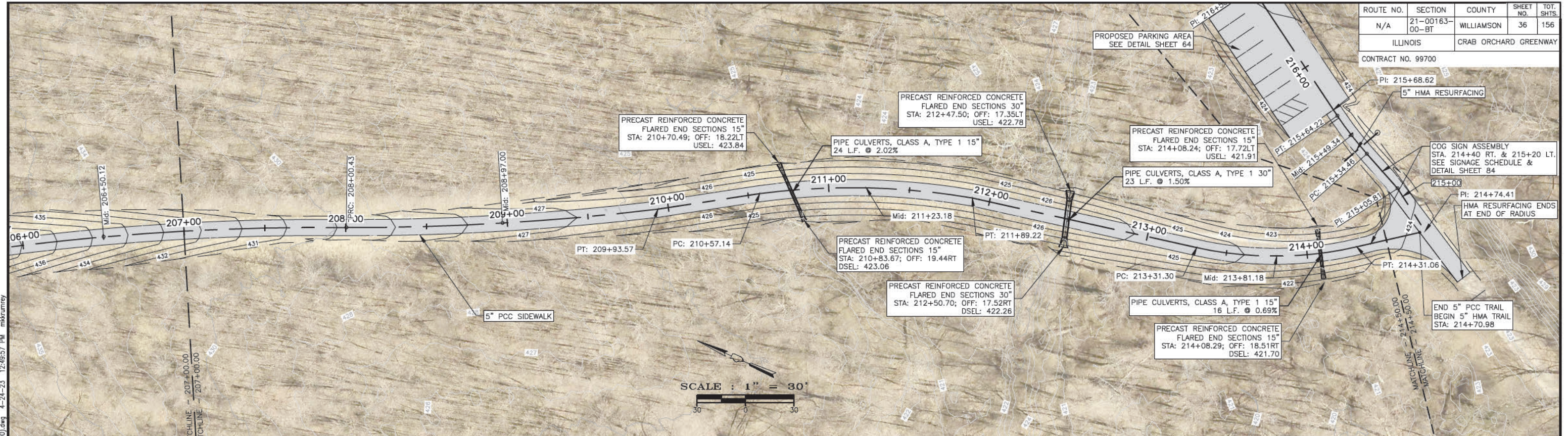
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	35	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chermess to Catch\21157 - 07 - Plan and Profile - (STA 199+00.00 to 214+50.00).dwg 4-24-23 12:49:36 PM mkrumrey



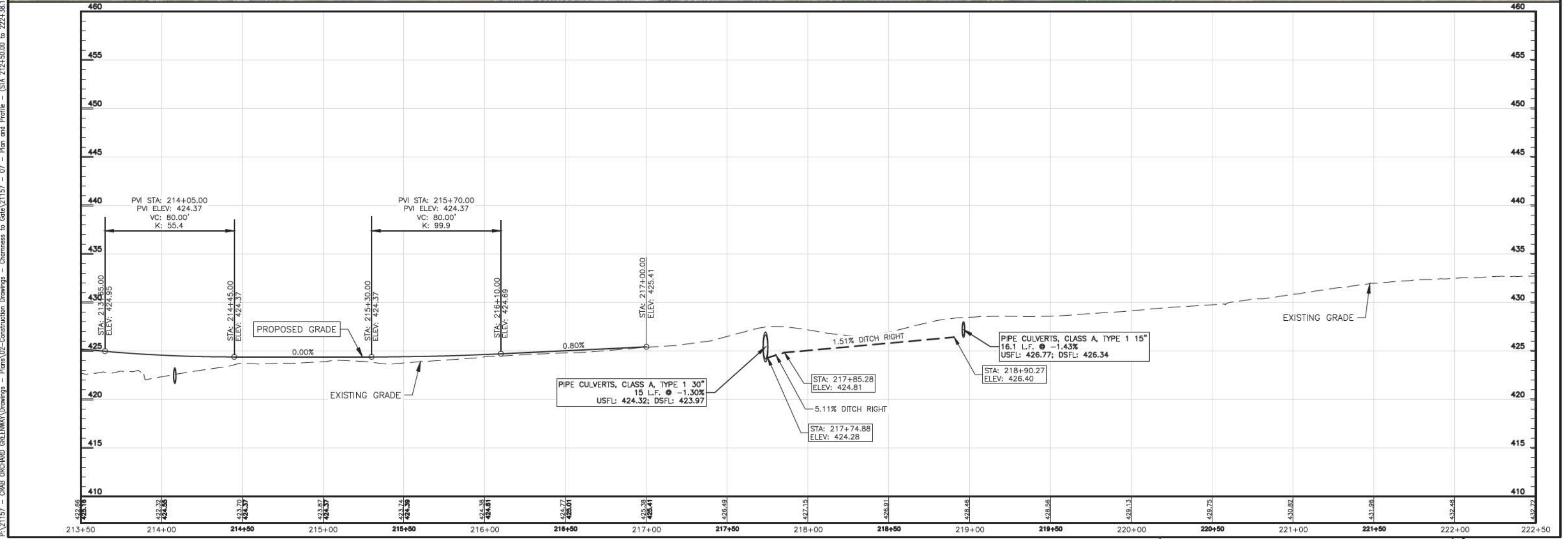
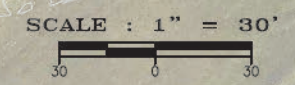
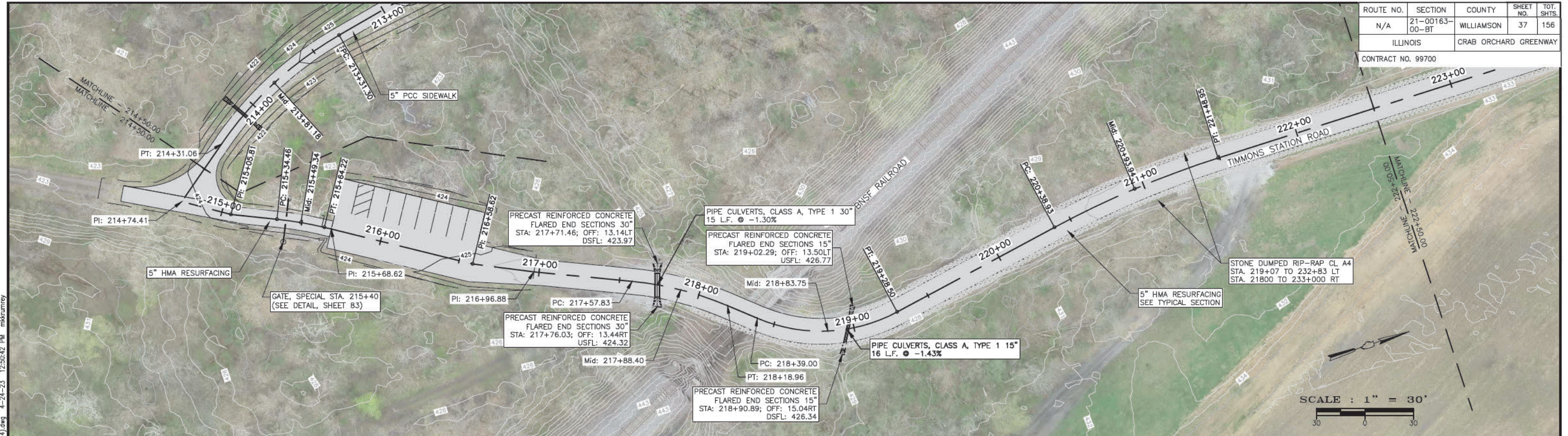
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	36	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chermess to Crab\21157 - 07 - Plan and Profile - (STA 199+00.00 to 214+50.00).dwg 4-24-23 12:49:57 PM mkrumrey

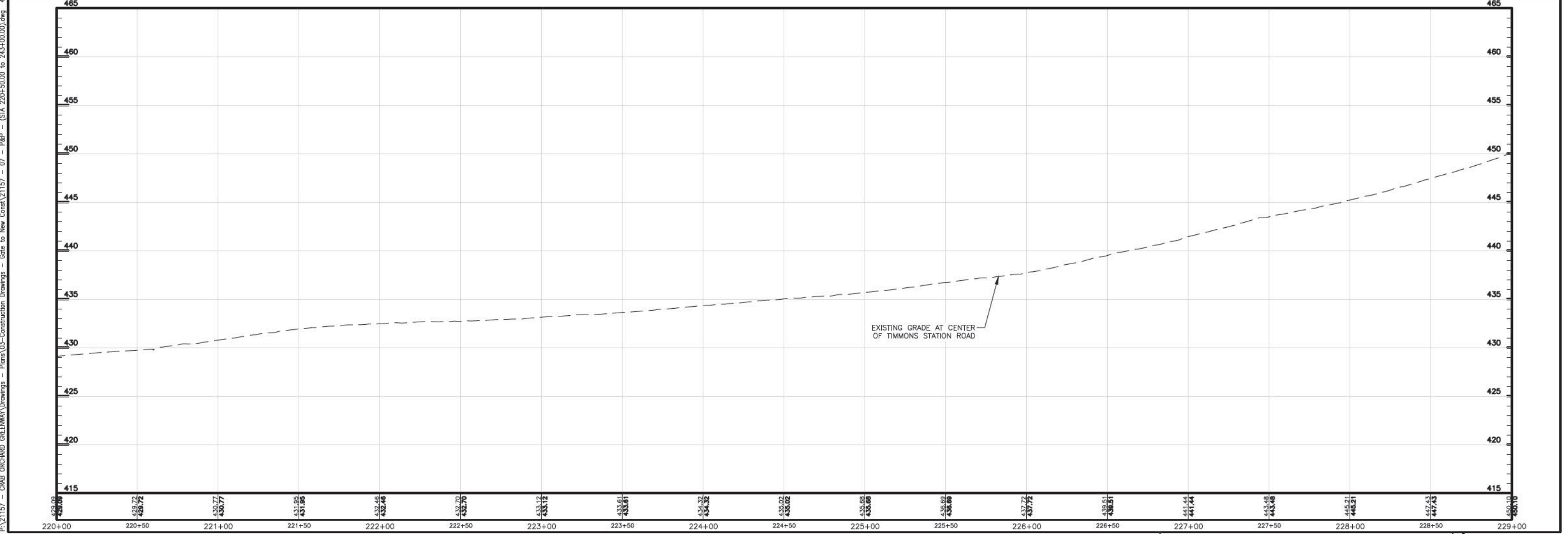
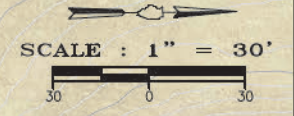
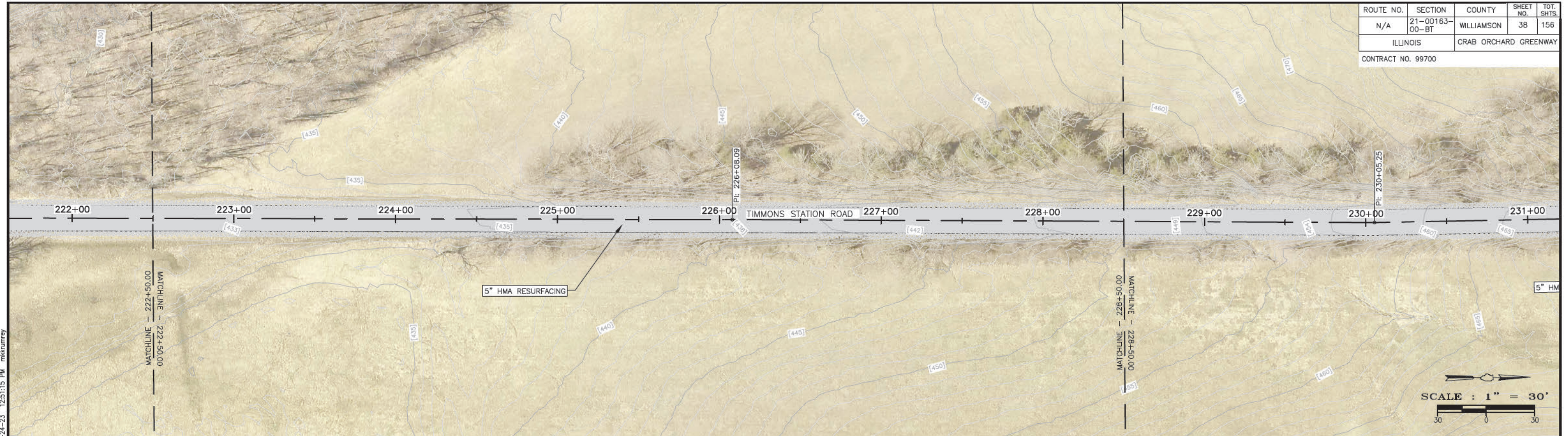
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	37	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



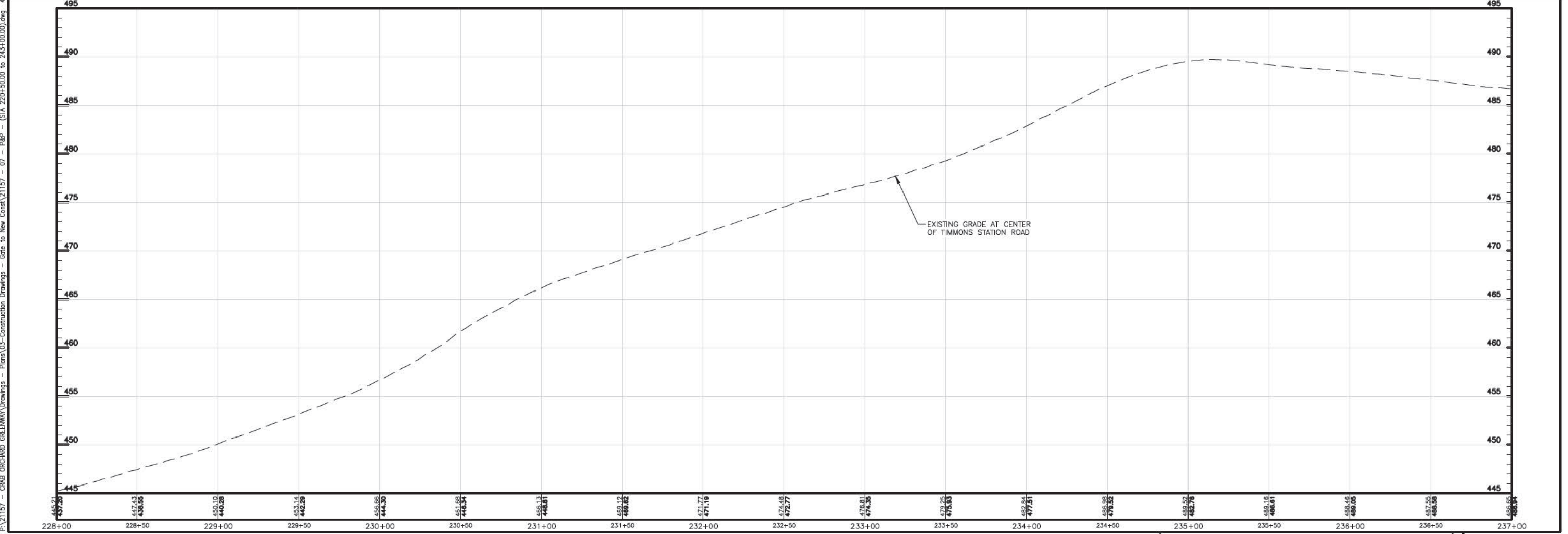
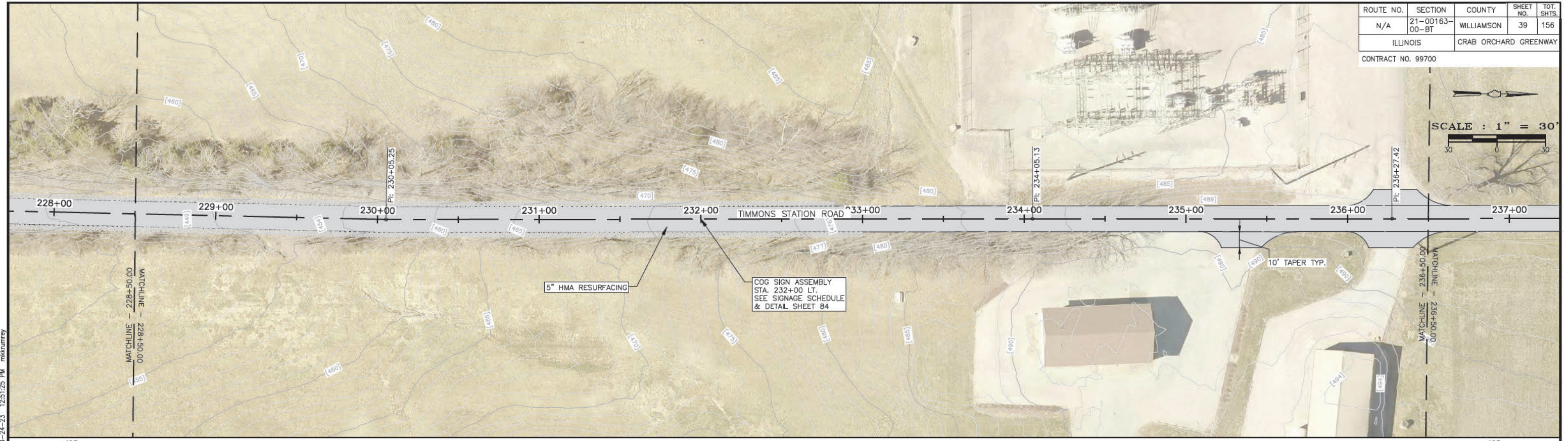
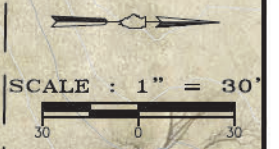
P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chemness to Crab\21157 - 07 - Plan and Profile - (STA 214+50.00 to 222+50.00) - 07 - Plan and Profile - (STA 214+50.00 to 222+50.00).dwg 4-24-23 12:50:42 PM mkrourney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	38	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



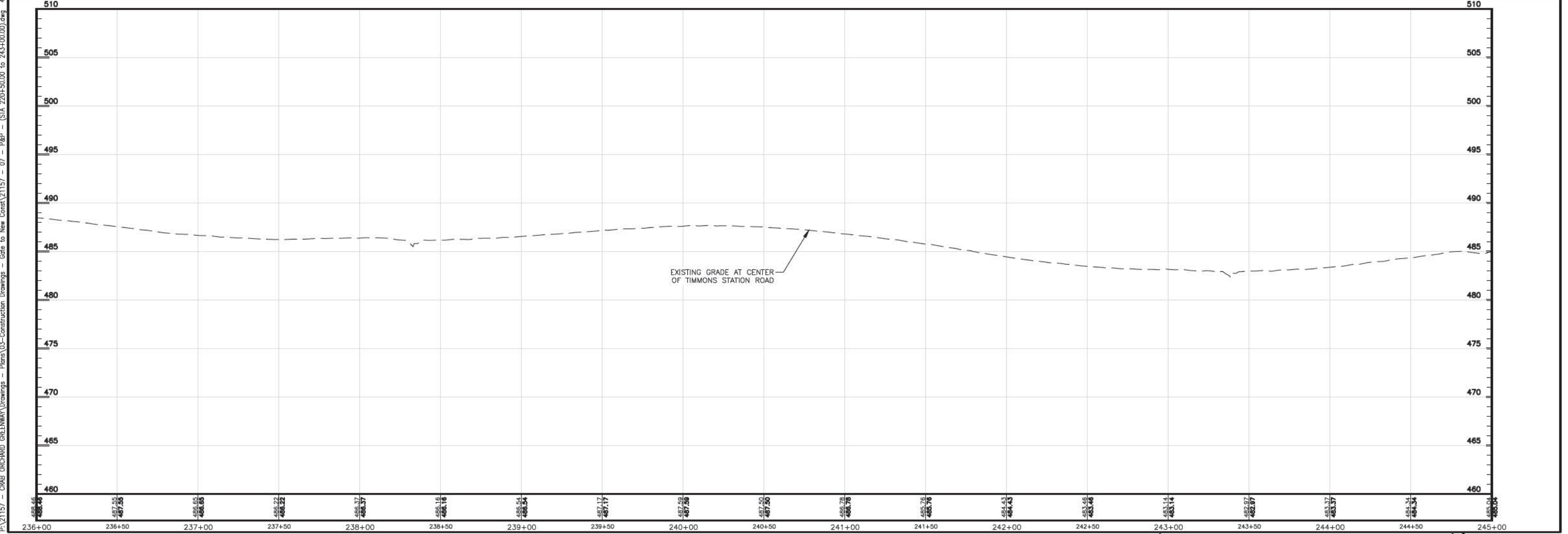
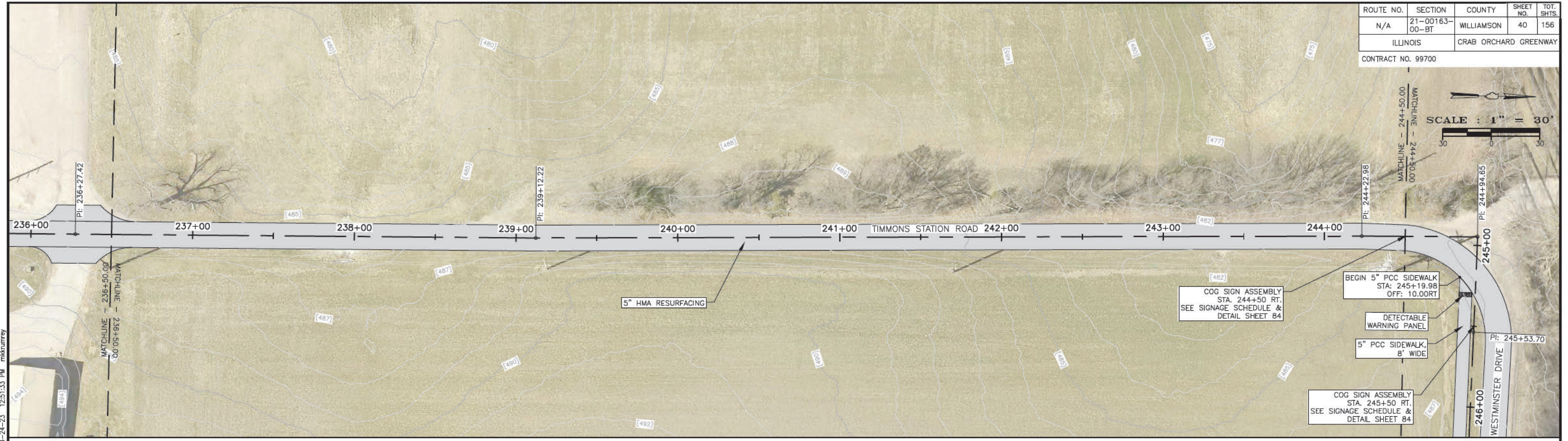
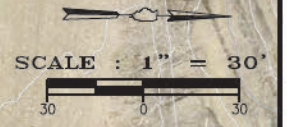
P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\03-Construction Drawings - Gate to New Const\21157 - 07 - P&P - (STA 220+50.00 to 243+00.00).dwg 4-24-23 12:51:15 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	39	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\03-Construction Drawings - Gate to New Const\21157 - 07 - P&P - (STA 228+50.00 to 236+50.00).dwg 4-24-23 12:51:25 PM mkrumrey

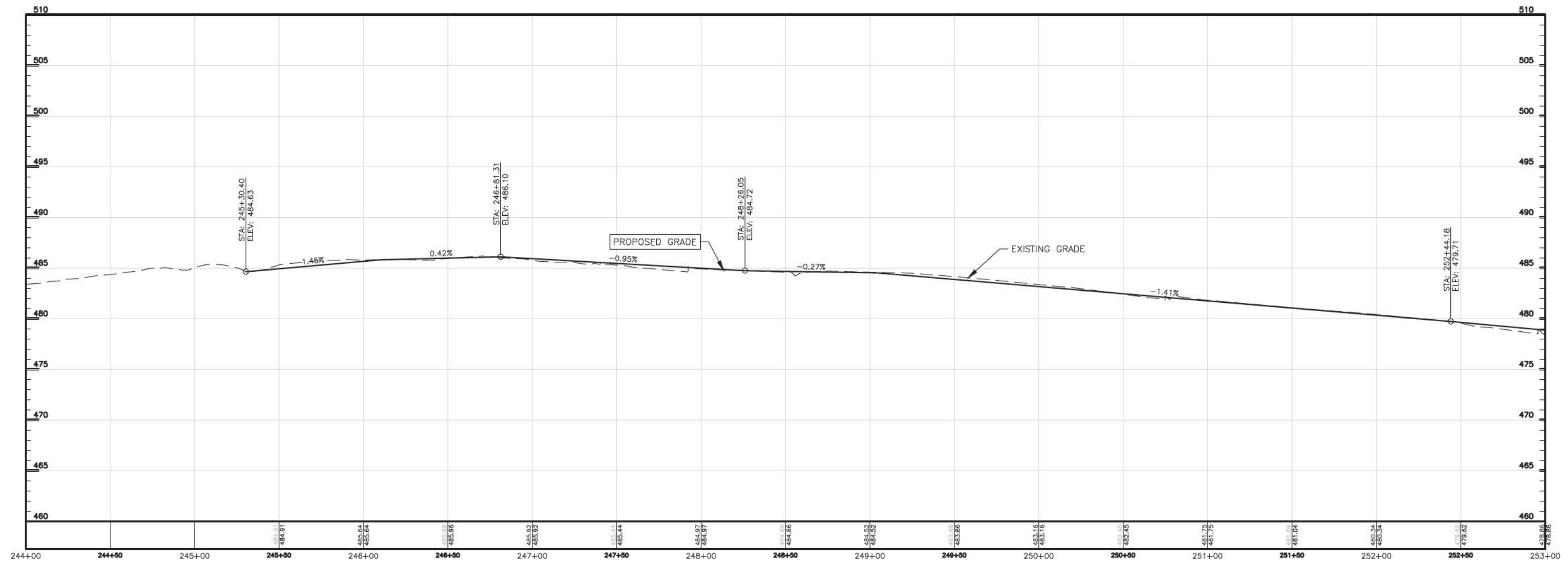
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	40	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



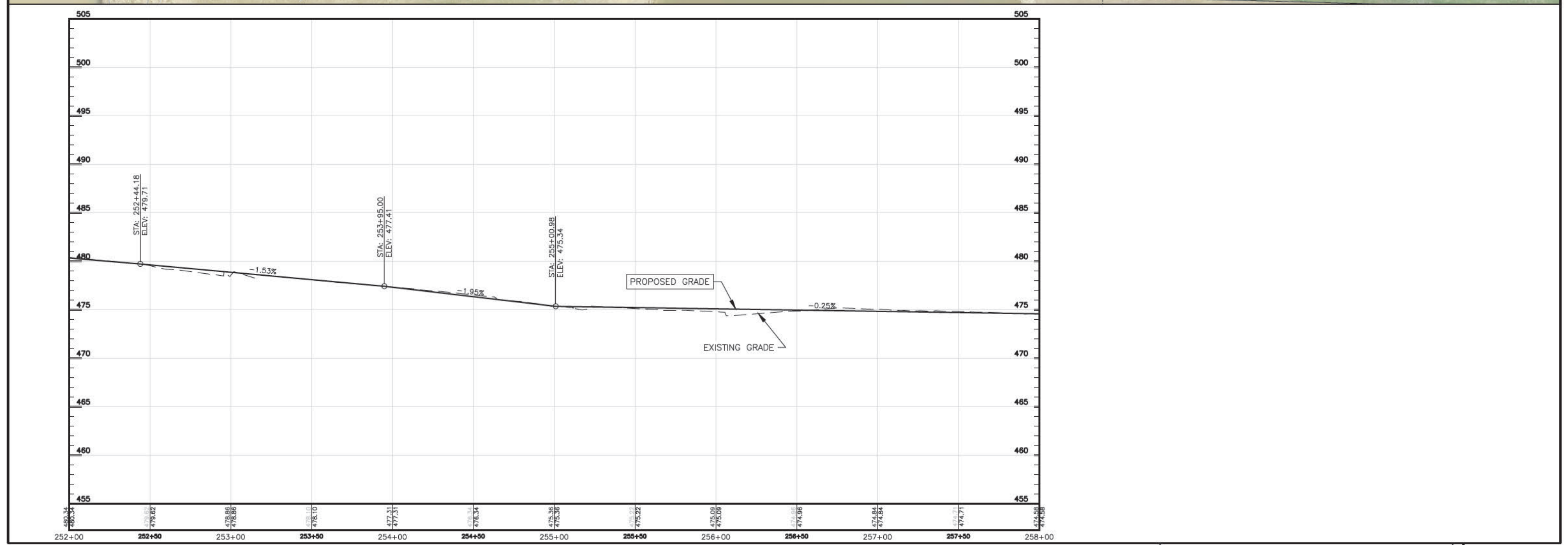
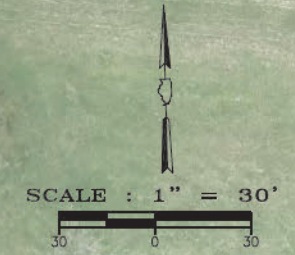
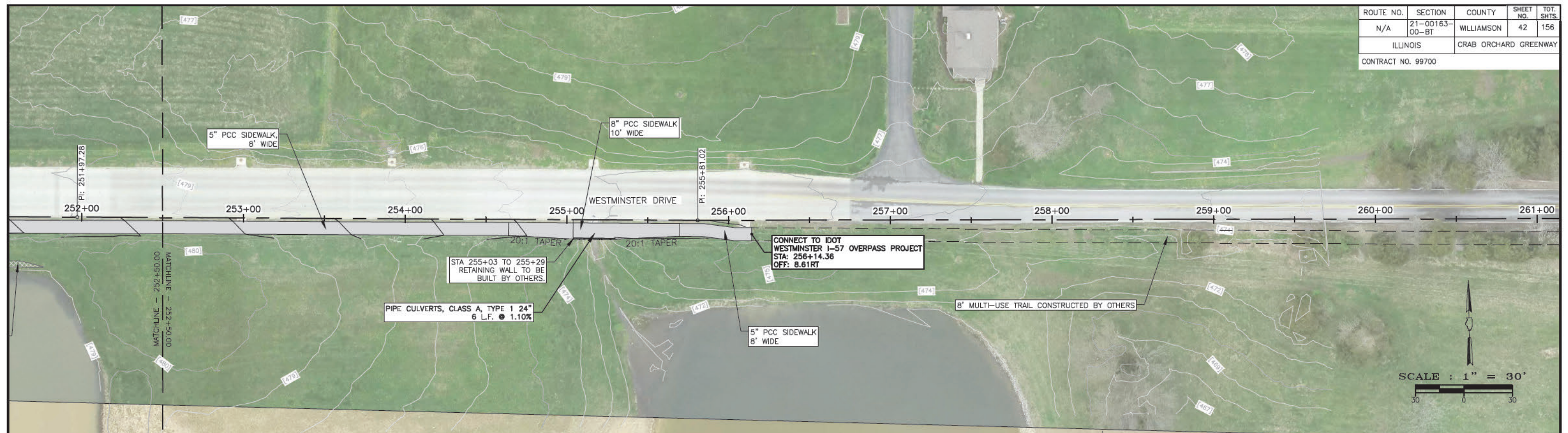
P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\03-Construction Drawings - Gate to New Const\21157 - 07 - P&P - (STA 220+50.00 to 243+00.00).dwg 4-24-23 12:51:33 PM mkrumrey



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	41	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

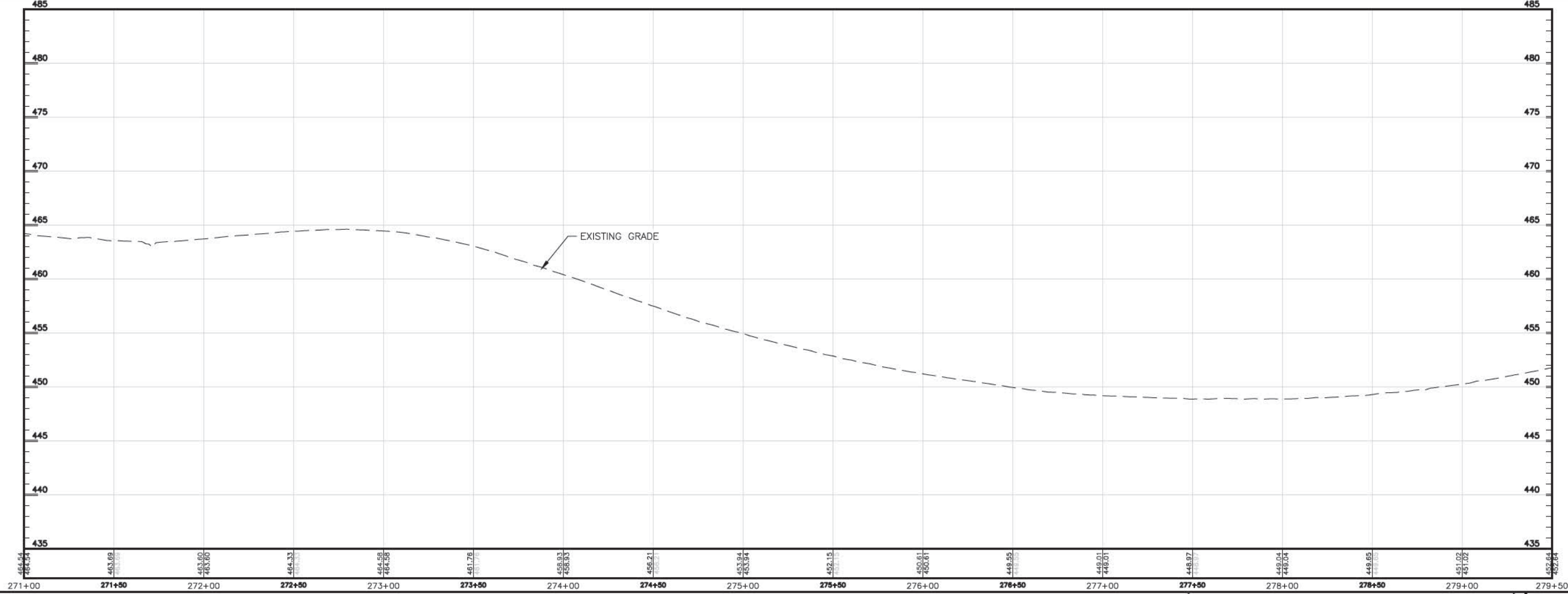


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	42	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

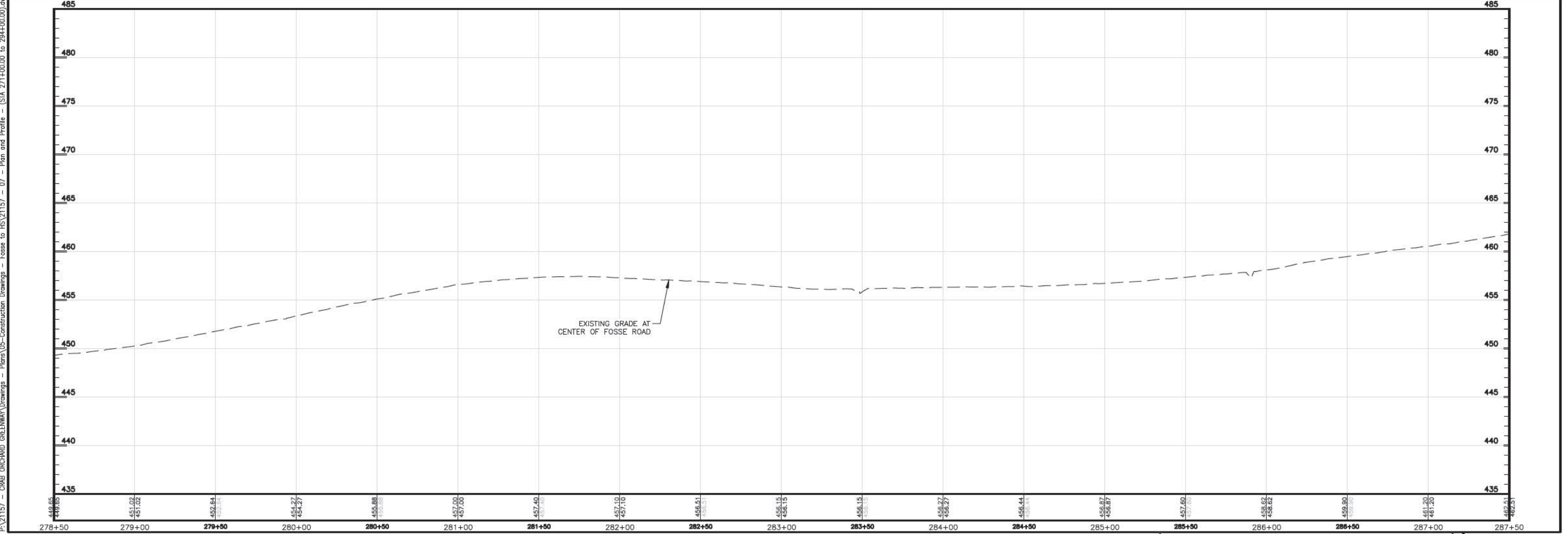


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	43	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\05-Construction Drawings - Fosse to HS\21157 - 07 - Plan and Profile - (STA 271+00.00 to 279+00.00).dwg 4--24--23 12:54:00 PM mknurme



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	44	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

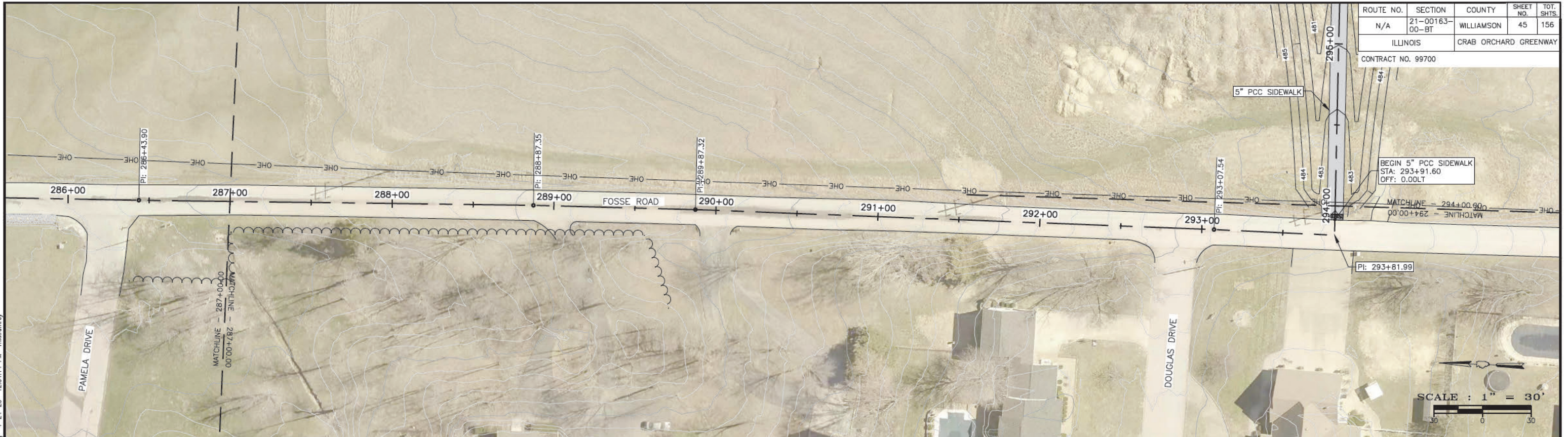


P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\05-Construction Drawings - Fosse to HS\21157 - 07 - Plan and Profile - (STA 271+00.00 to 294+00.00).dwg 4-24-23 12:54:09 PM mklumrey

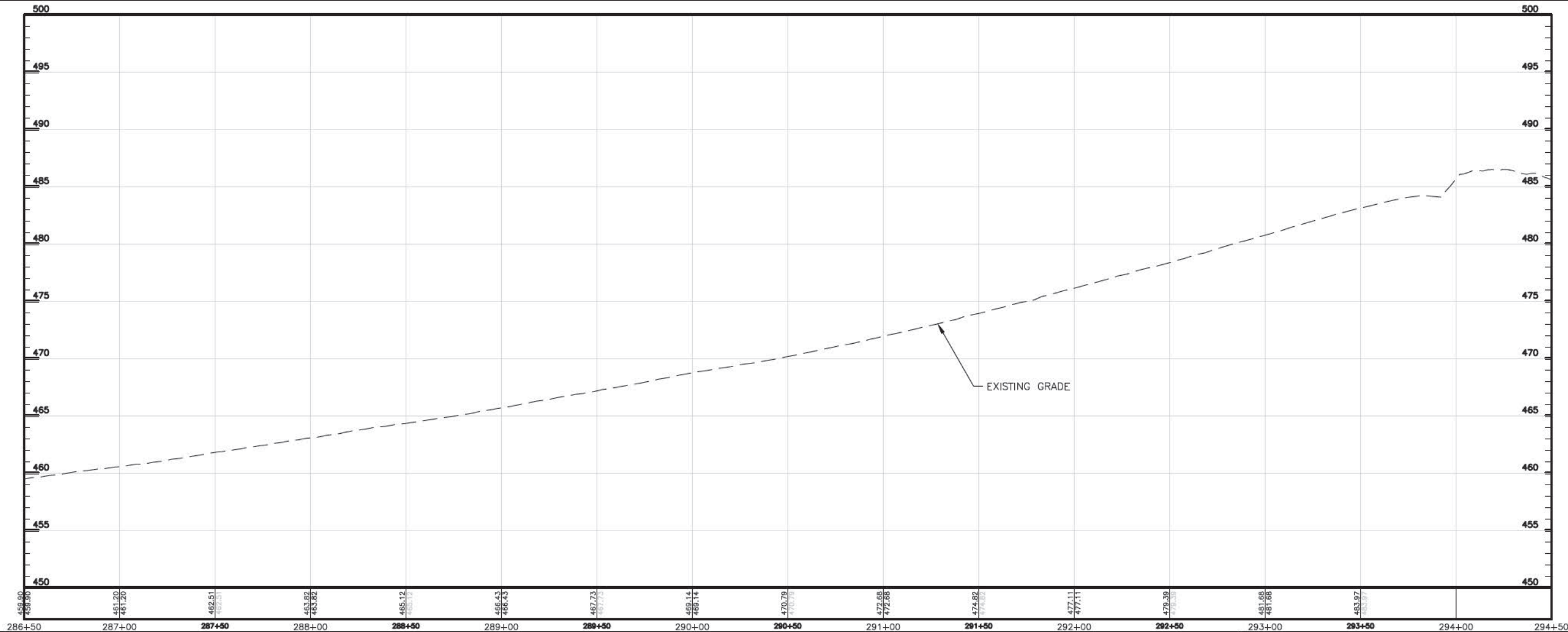
PA\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\05-Construction Drawings - Fosse to HS\21157 - 07 - Plan and Profile - (STA 271+00.00 to 294+00.00).dwg 4--24--23 12:54:14 PM mtkrunney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	45	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



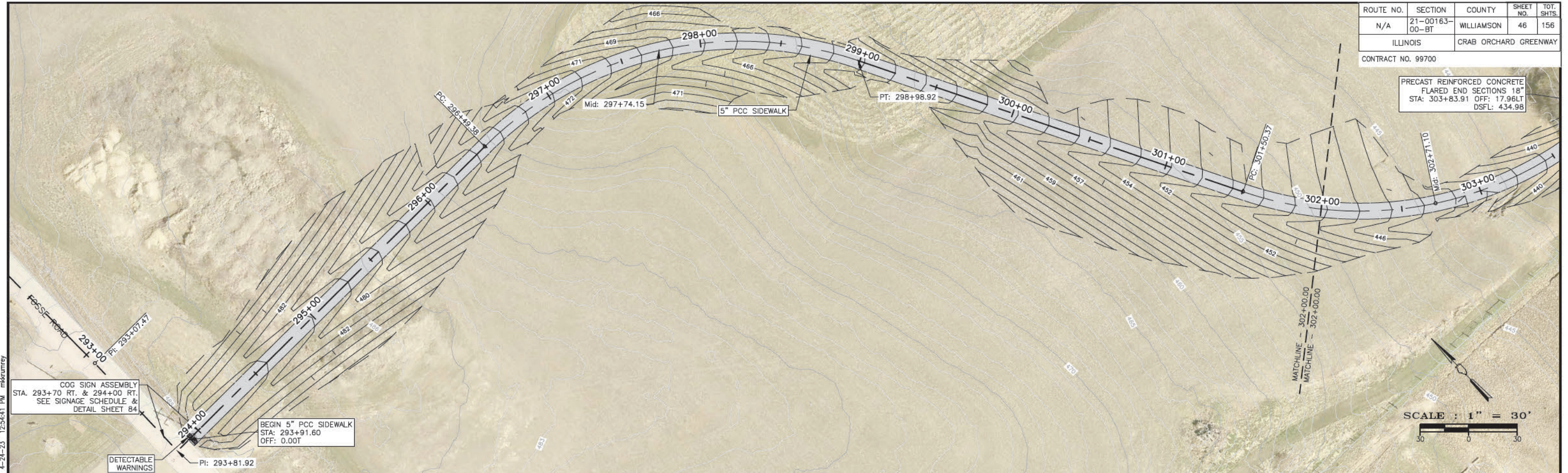
SCALE : 1" = 30'



- P&P - (STA 287+00.00 to 294+00.00)

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	46	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

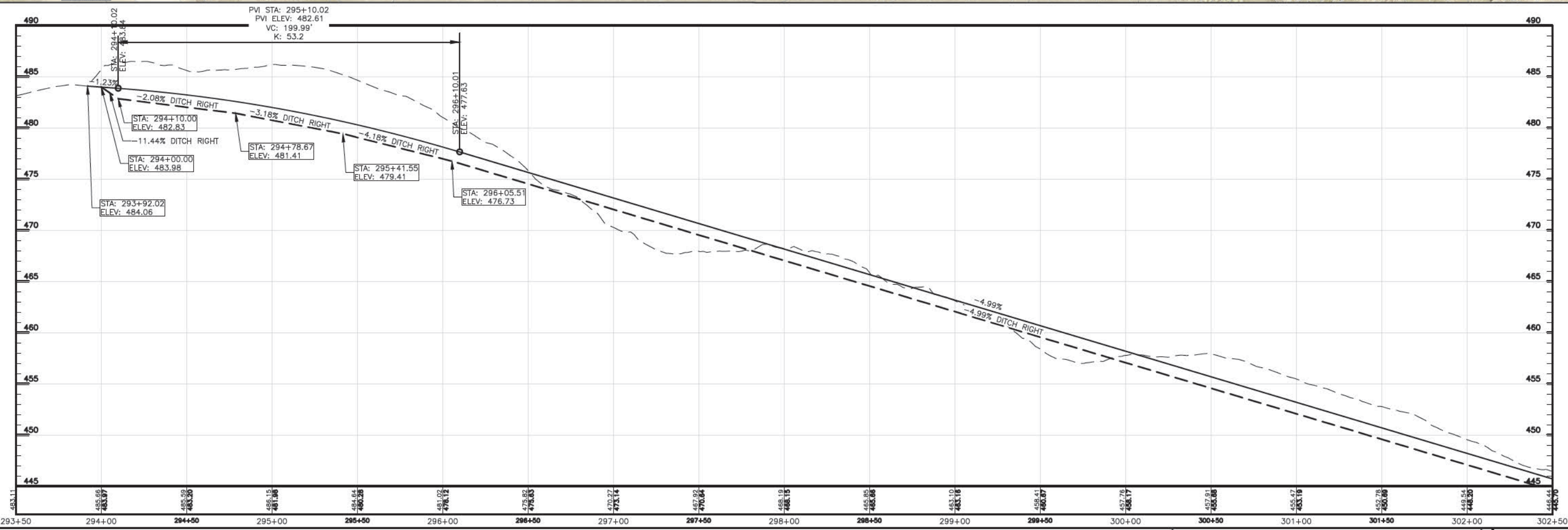
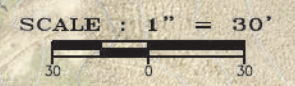
PRECAST REINFORCED CONCRETE  
FLARED END SECTIONS 18"  
STA: 303+83.91 OFF: 17.96LT  
DSFL: 434.98



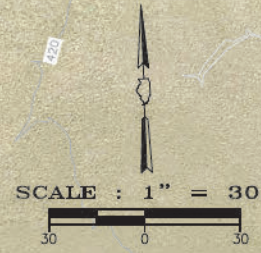
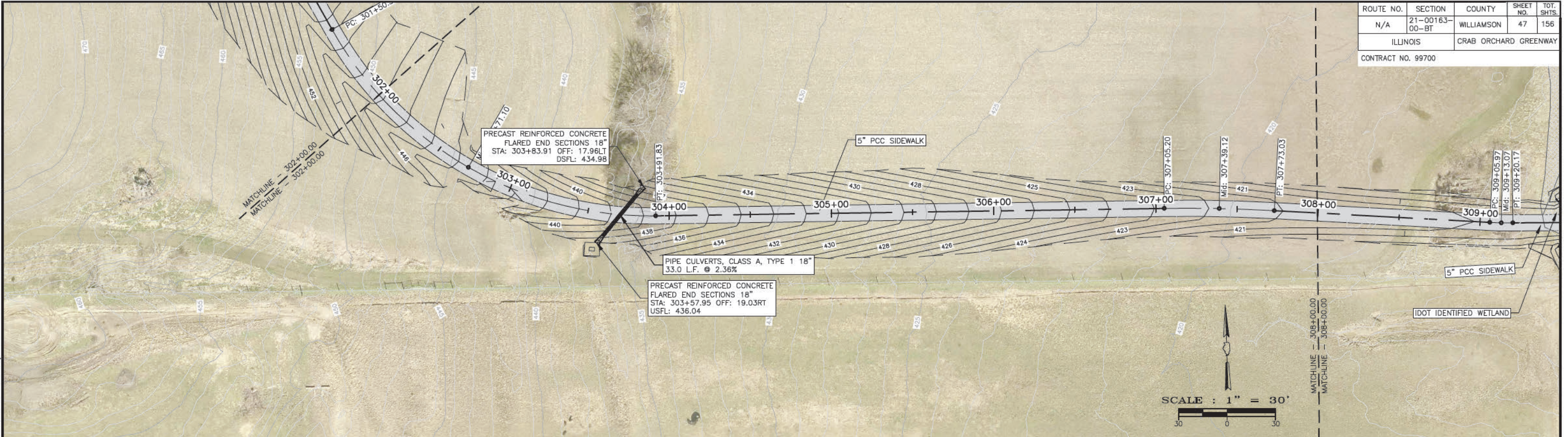
P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\06-Construction Drawings - HS to Eto\21157 - 07 - P&P - (STA 292+00.00 to 302+00.00).dwg 4-24-23 12:54:41 PM mlskumrey

COG SIGN ASSEMBLY  
STA. 293+70 RT. & 294+00 RT.  
SEE SIGNAGE SCHEDULE &  
DETAIL SHEET 84

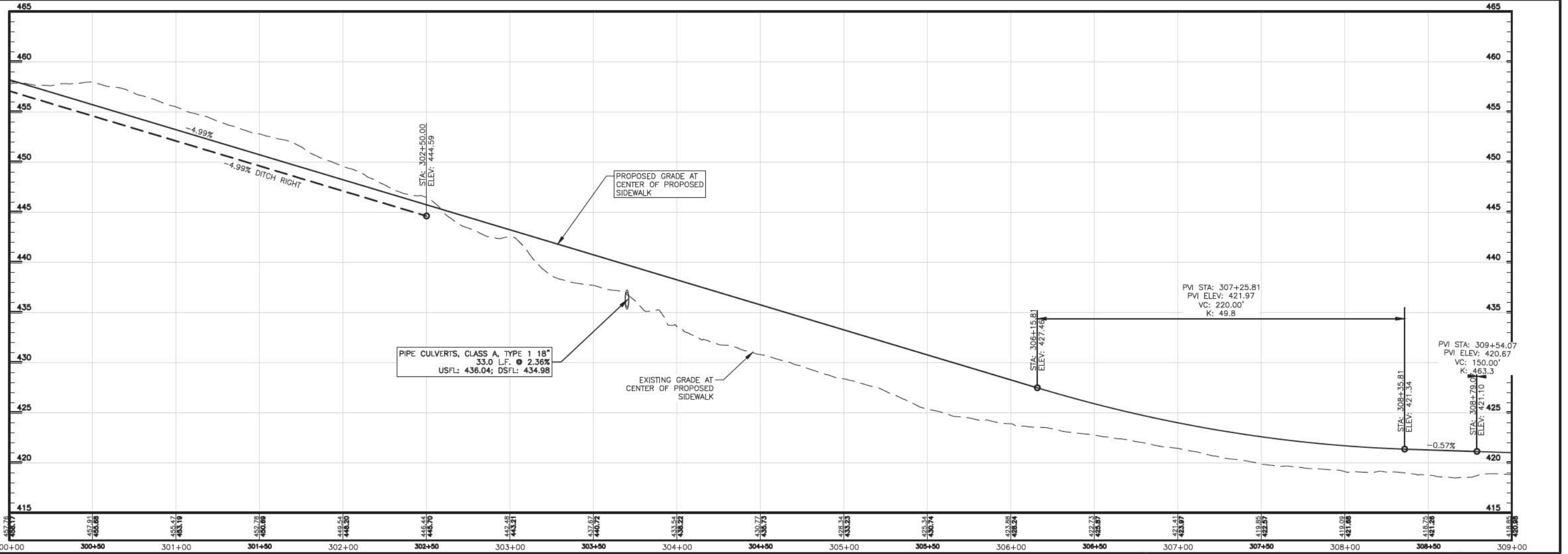
BEGIN 5" PCC SIDEWALK  
STA: 293+91.60  
OFF: 0.00T



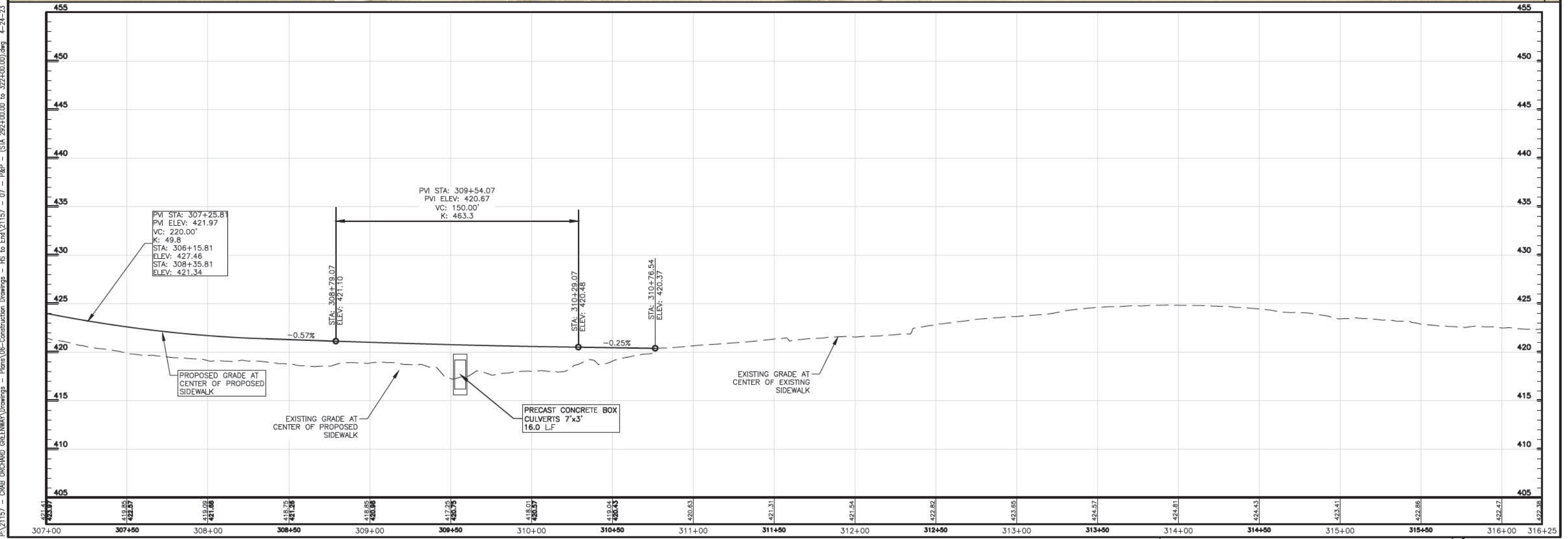
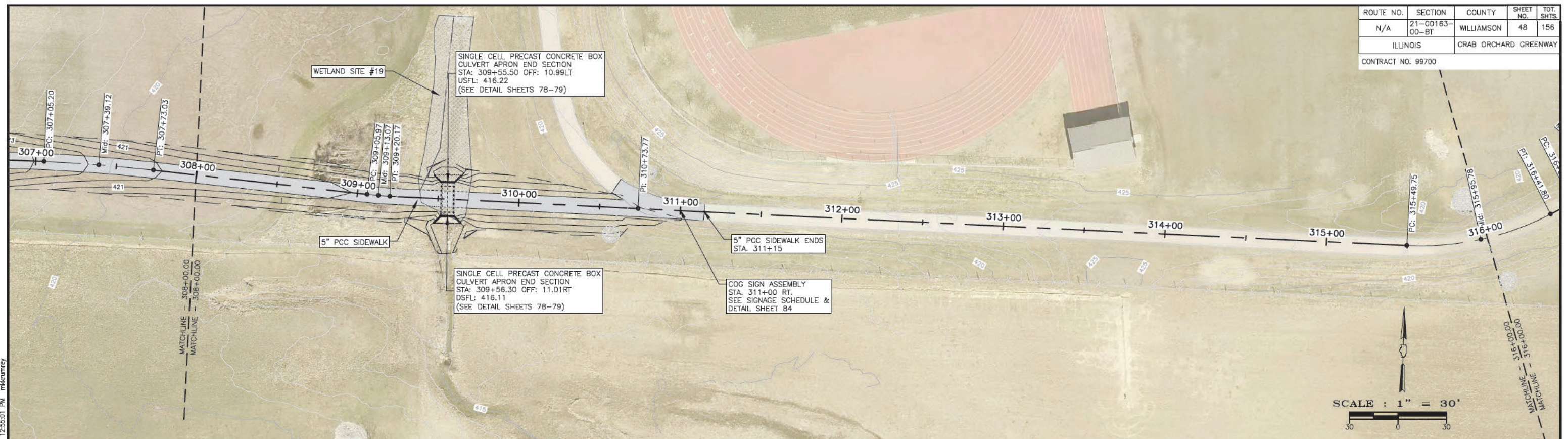
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	47	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\06-Construction Drawings - HS to Etc\21157 - 07 - P&P - (STA. 292+00.00 to 322+00.00).dwg 4-24-23 12:54:53 PM mskrumrey



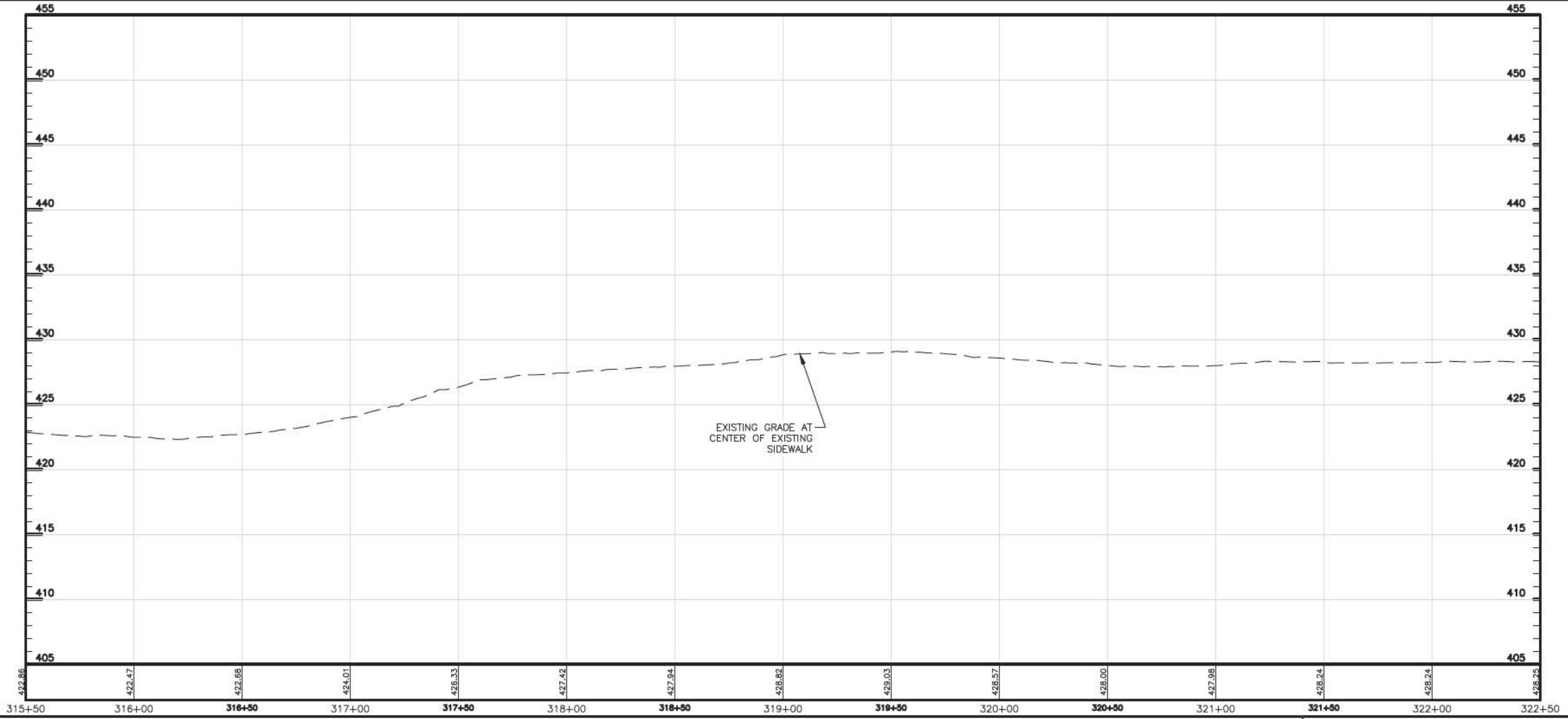
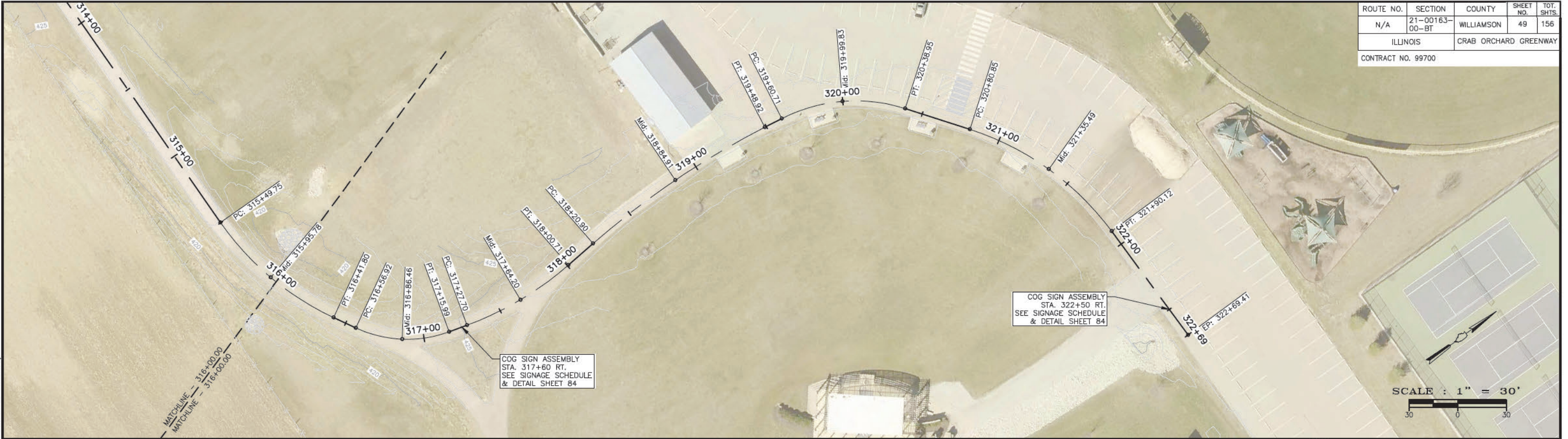
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	48	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\06-Construction Drawings - HS to Etc\21157 - 07 - P&P - (STA 292+00.00 to 322+00.00).dwg 4-24-23 12:55:01 PM mskrumrey



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	49	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\06-Construction Drawings - HS to EA\21157 - 07 - P&P - (STA. 292+00.00 to 322+00.00).dwg 4-24-23 12:55:12 PM mskrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	50	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\01 - Construction Drawings - 148 to Chumness\21157 - Erosion Control - (STA 51+00.00 to 85+00.00).dwg 4-24-23 12:56:54 PM mskrummey

LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 50 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	51	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\01-Construction Drawings - 148 to Chumness\21157 - Erosion Control - (STA 51+00.00 to 85+00.00).dwg 4-24-23 12:57:10 PM mskrumey

LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

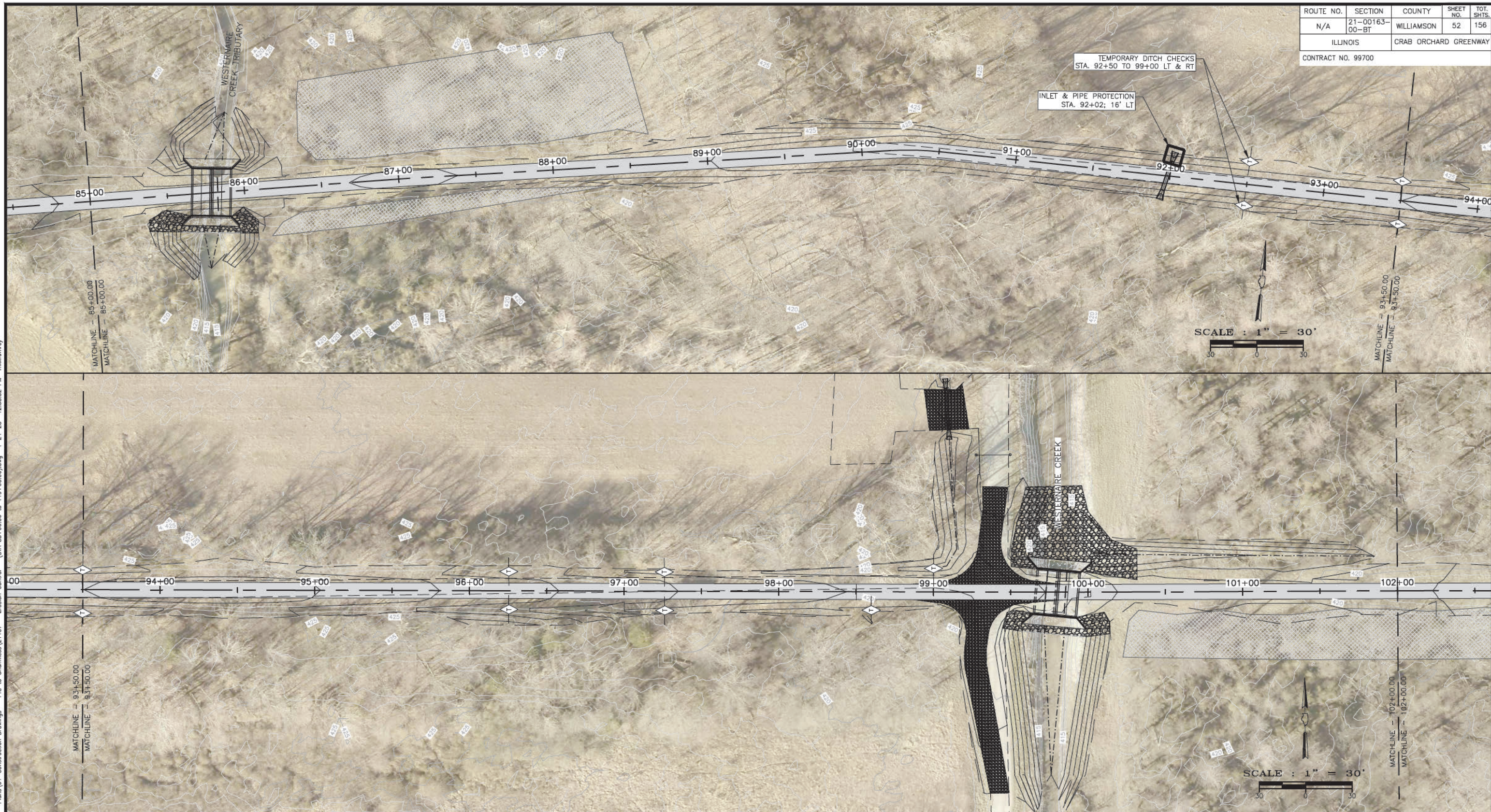
REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 51 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	52	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



TEMPORARY DITCH CHECKS  
STA. 92+50 TO 99+00 LT & RT

INLET & PIPE PROTECTION  
STA. 92+02; 16' LT

SCALE : 1" = 30'

SCALE : 1" = 30'

LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

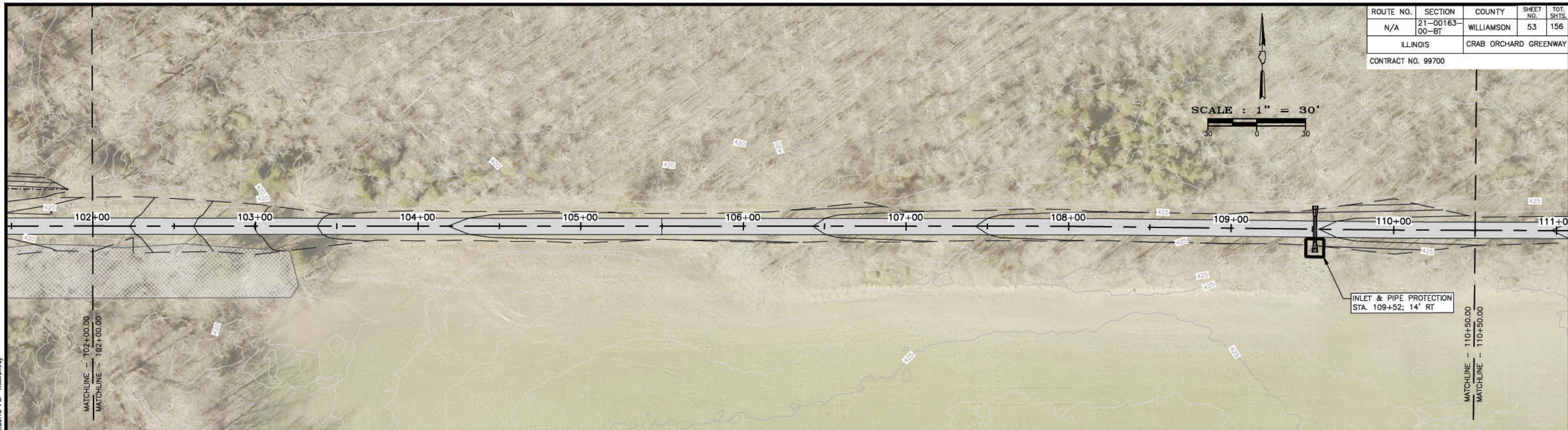
EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 52 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\01-Construction Drawings - 148 to Chumness\21157 - Erosion Control - (STA 85+00.00 to 119+00.00).dwg 4-24-23 12:56:52 PM mkkumrey

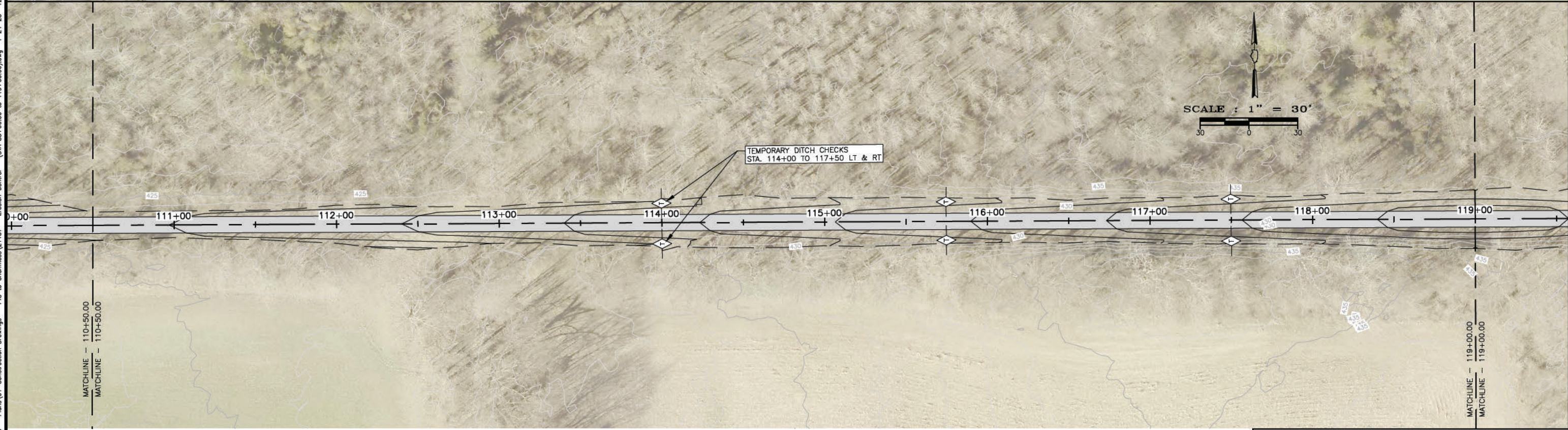
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	53	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

SCALE : 1" = 30'







INLET & PIPE PROTECTION  
STA. 109+52; 14' RT

SCALE : 1" = 30'



TEMPORARY DITCH CHECKS  
STA. 114+00 TO 117+50 LT & RT

**LEGEND**

-  PERIMETER EROSION BARRIER
-  PROPOSED INLET AND PIPE PROTECTION
-  DITCH CHECK
-  EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED

**CLARIDA & ZIEGLER ENGINEERING CO.**  
410 North Court St, P.O. Box 937  
Marion, Illinois 62959  
Phone - (618)993-6411, Fax - (618)993-6750

**EROSION CONTROL  
CRAB ORCHARD GREENWAY  
WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
Scale Job No. 21157 Sheet No. 53 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\01 - Construction Drawings - 148 to Chimneys\21157 - Erosion Control - (STA 85+00.00 to 119+00.00).dwg 4-24-23 12:58:13 PM mkkurney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	54	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

SCALE : 1" = 30'

TEMPORARY DITCH CHECKS  
STA. 120+00 TO 133+00 LT & RT

INLET & PIPE PROTECTION  
STA. 125+69; 15' LT

MATCHLINE - 119+00.00  
MATCHLINE - 119+00.00

MATCHLINE - 127+00.00  
MATCHLINE - 127+00.00





SCALE : 1" = 30'

INLET & PIPE PROTECTION  
STA. 128+52; 16' LT

MATCHLINE - 127+00.00  
MATCHLINE - 127+00.00

MATCHLINE - 135+00.00  
MATCHLINE - 135+00.00

**LEGEND**

-  PERIMETER EROSION BARRIER
-  PROPOSED INLET AND PIPE PROTECTION
-  DITCH CHECK
-  EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

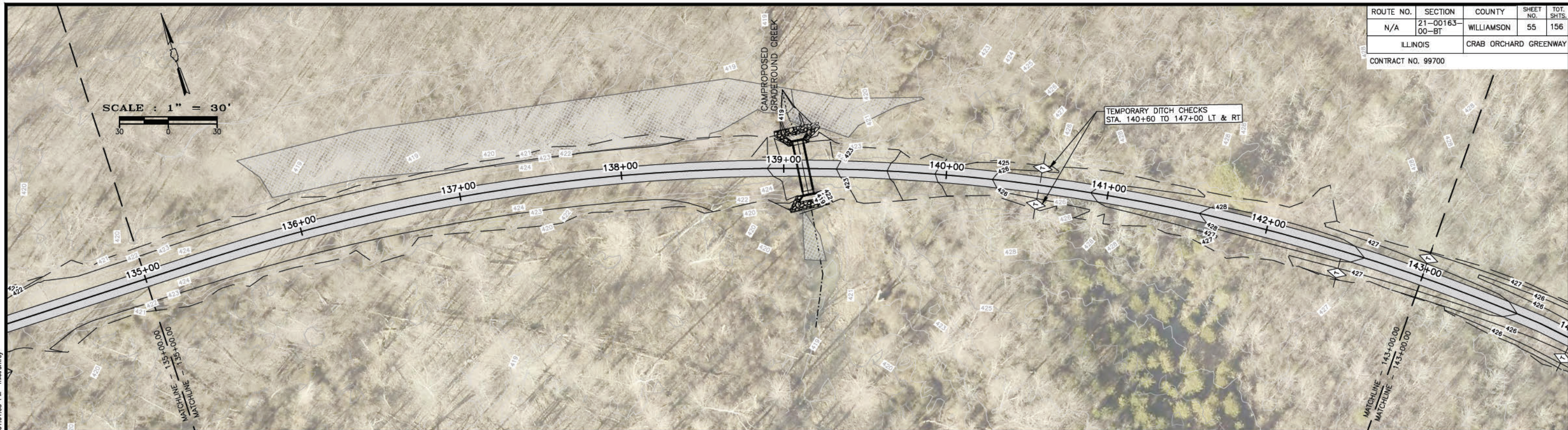
REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 54 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	55	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

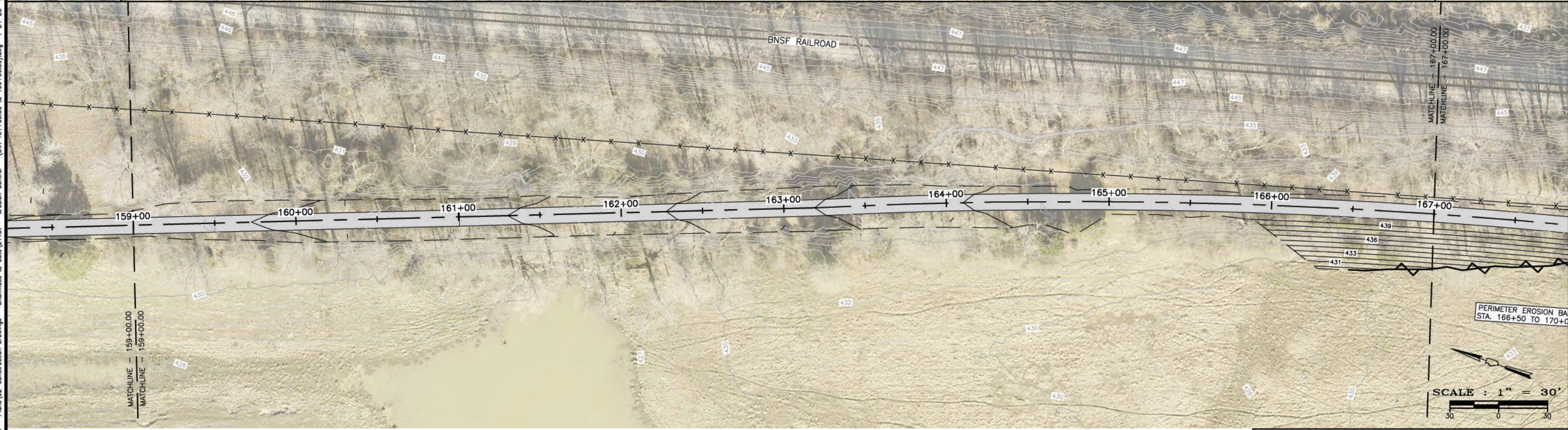
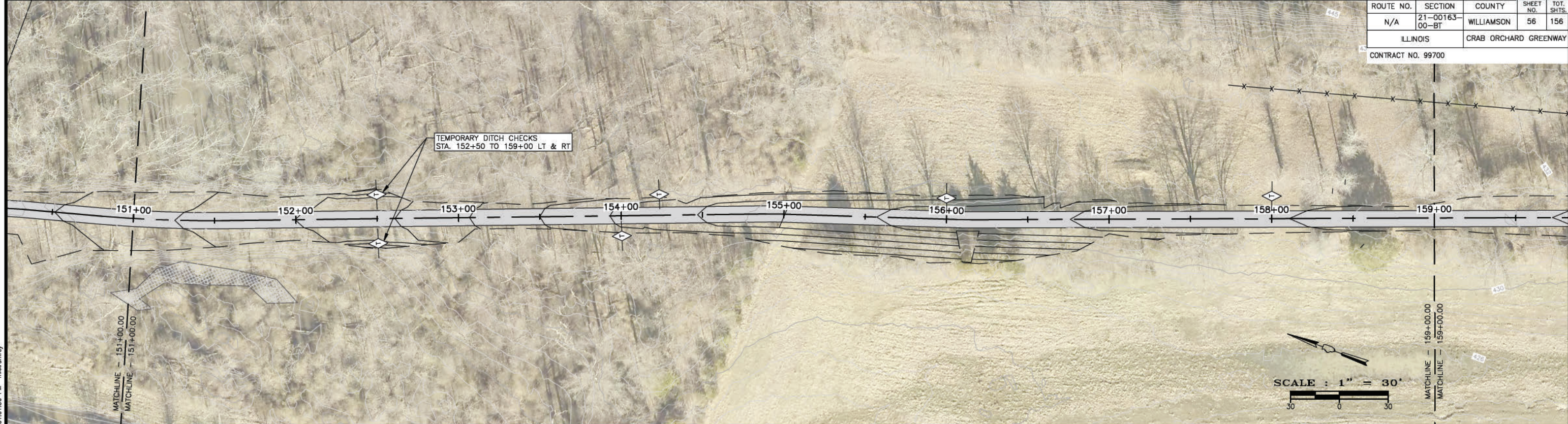
© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 55 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Chamness to Gate\21157 - Erosion Control - (STA 119+00.00 to 151+00.00).dwg 4-24-23 01:01:03 PM mikrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	56	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED

**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

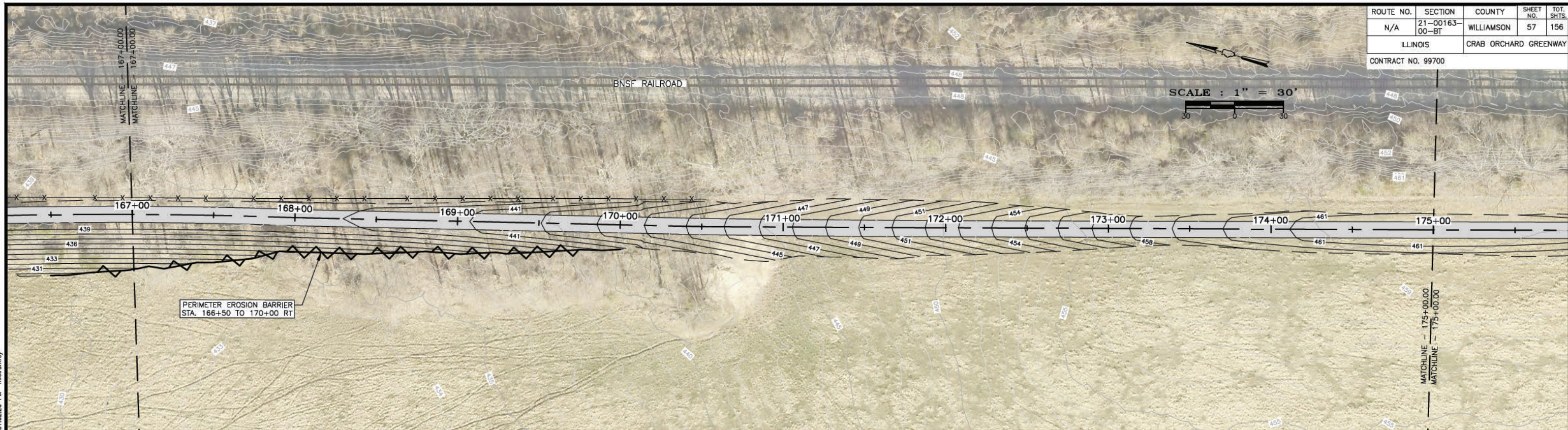
EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 56 of 156

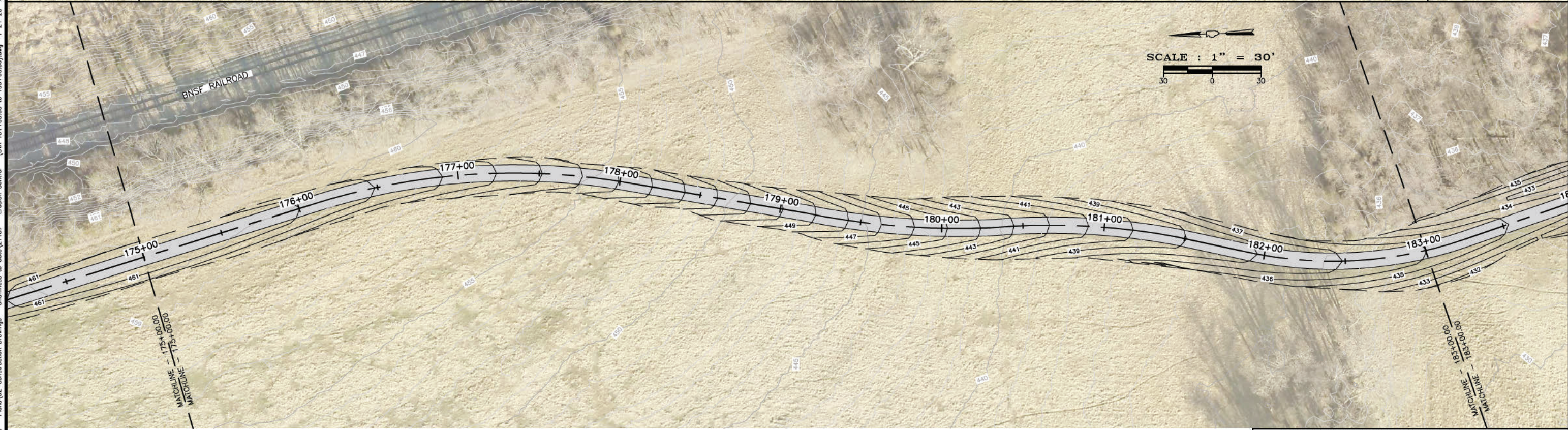
P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Chamness to Gate\21157 - Erosion Control - (STA 151+00.00 to 199+00.00).dwg 4-24-23 01:01:56 PM mikrumrey



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	57	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



SCALE : 1" = 30'



SCALE : 1" = 30'

LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

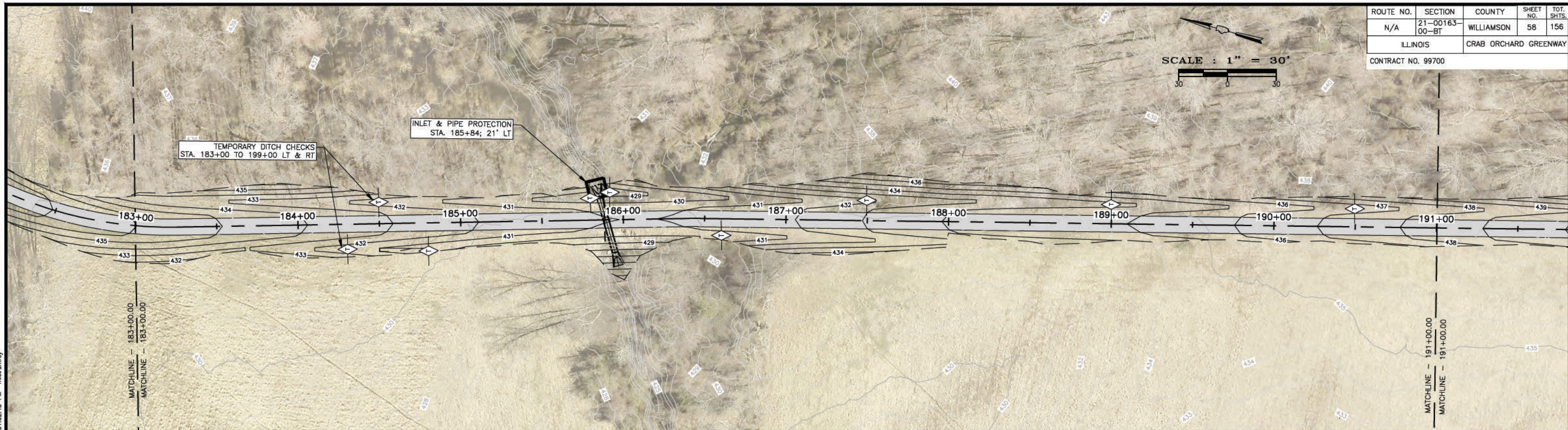
**EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 57 of 156

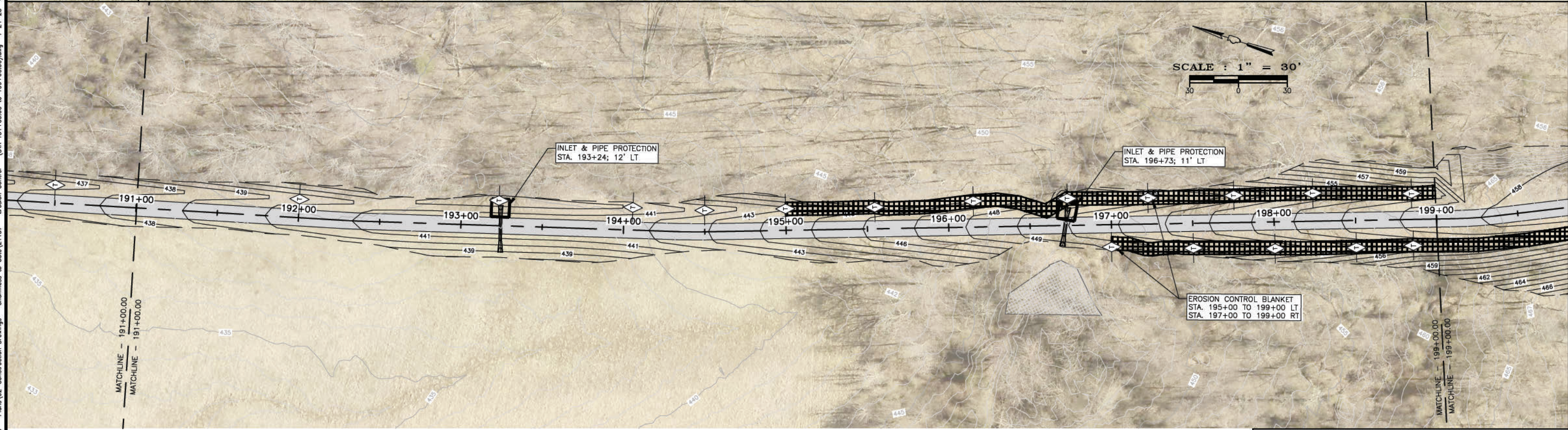
P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Chamness to Gate\21157 - Erosion Control - (STA 151+00.00 to 199+00.00).dwg 4-24-23 01:02:20 PM mkrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	58	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

SCALE : 1" = 30'



SCALE : 1" = 30'



**LEGEND**

- PERIMETER EROSION BARRIER
- PROPOSED INLET AND PIPE PROTECTION
- DITCH CHECK
- EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

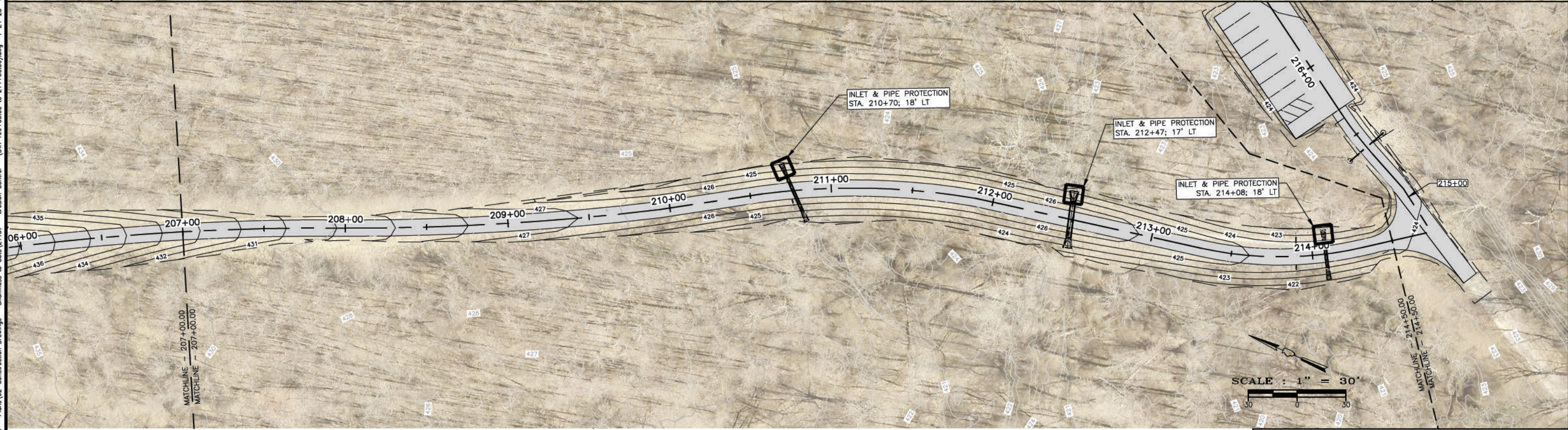
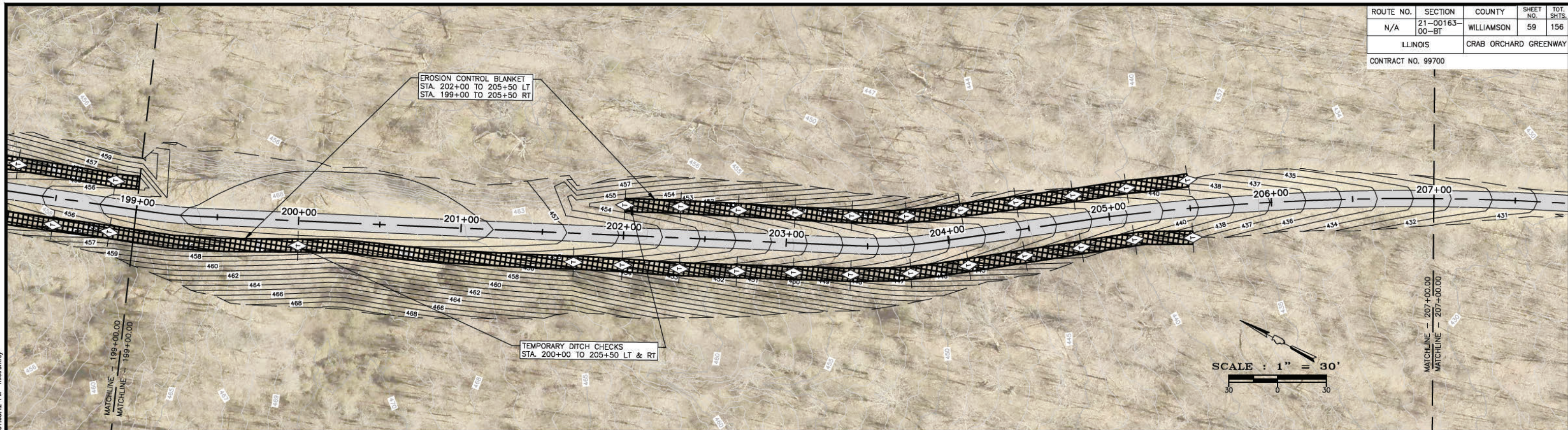
© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 58 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Chamness to Gate\21157 - Erosion Control - (STA 191+00.00 to 199+00.00).dwg 4-24-23 01:02:45 PM mikrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	59	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

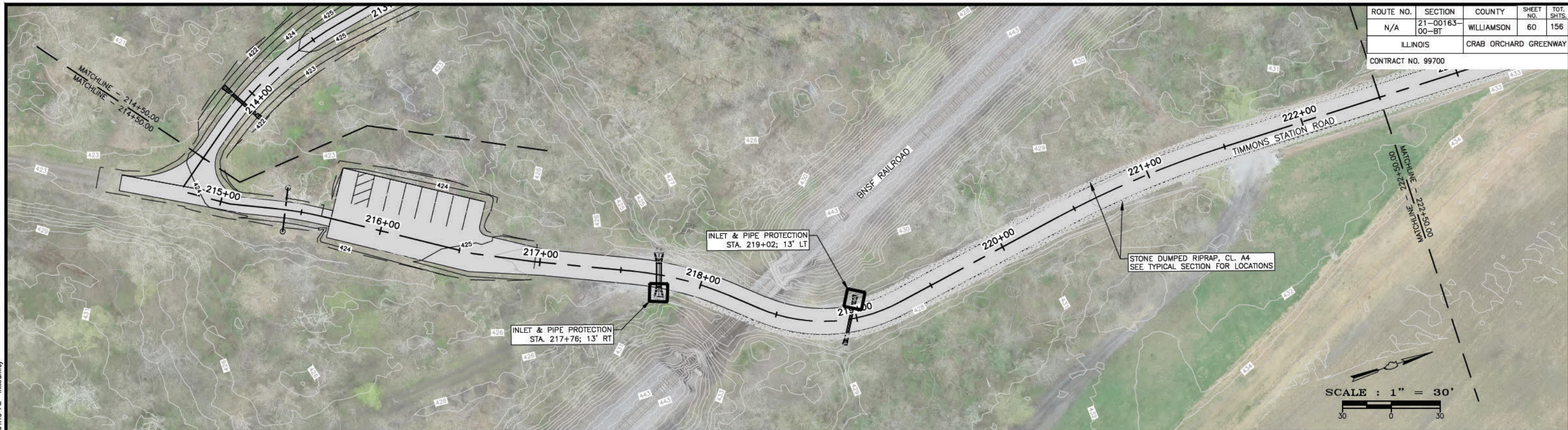
**EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 59 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Chamness to Gate\21157 - Erosion Control - (STA 199+00.00 to 214+50.00).dwg 4-24-23 01:03:42 PM mikrumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	60	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

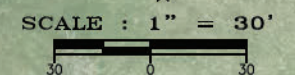
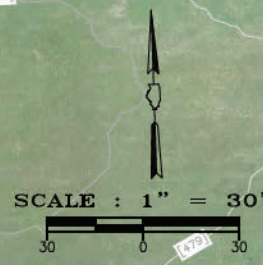


P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\02-Construction Drawings - Churness to Gate\21157 - Erosion Control - (STA. 214+50.00 to 222+50.00).dwg 4-24-23 01:04:15 PM mkrumrey

LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
© 2021 ALL RIGHTS RESERVED	
<b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b>	
410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
EROSION CONTROL CRAB ORCHARD GREENWAY WILLIAMSON COUNTY, ILLINOIS	
Date	FEB. 2023
DR. By	CWB
CK'D By	CWB
Scale	Job No. 21157 Sheet No. 60 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	61	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - New Const to Fesse\21157 - Erosion Control - (STA 244+50.00 to 258+00.00).dwg 4-24-23 01:06:04 PM mkkumrey

LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

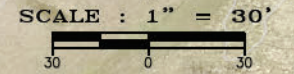
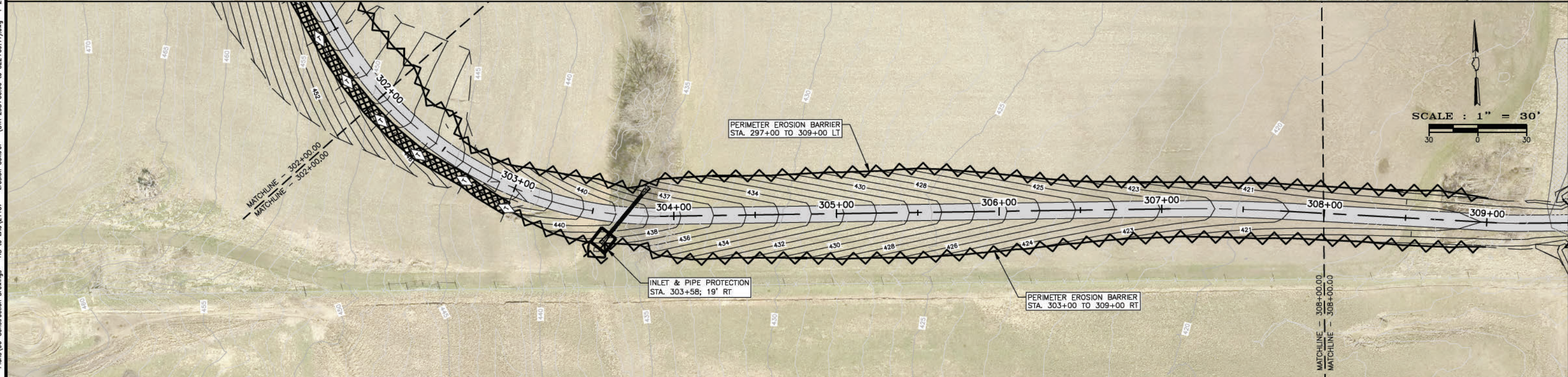
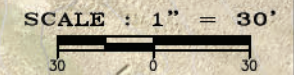
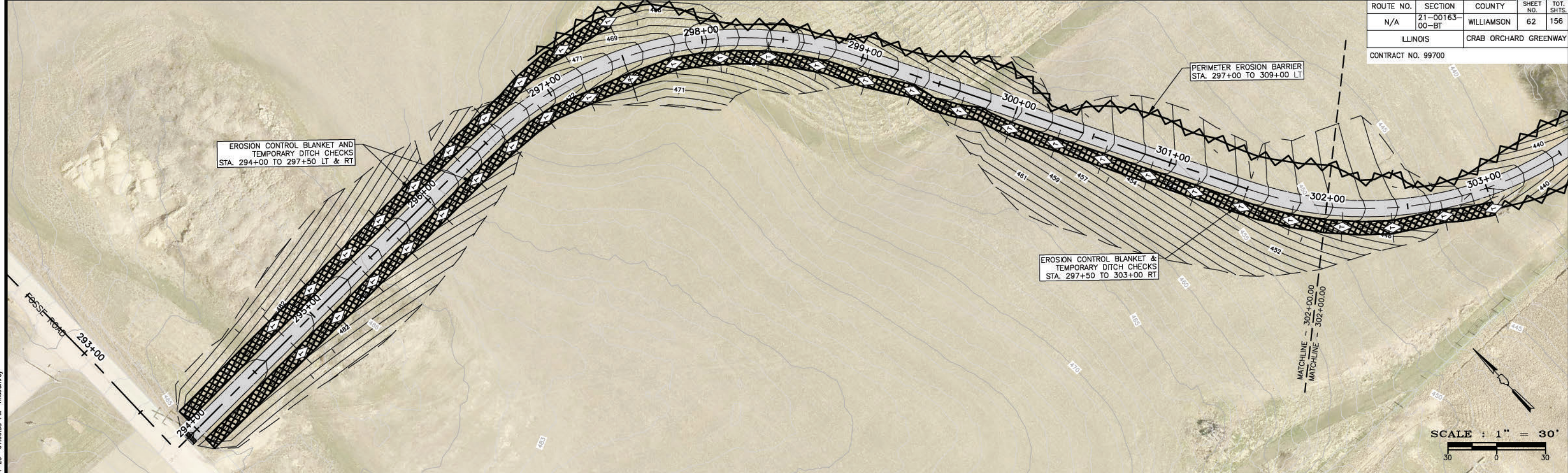
REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 61 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	62	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED

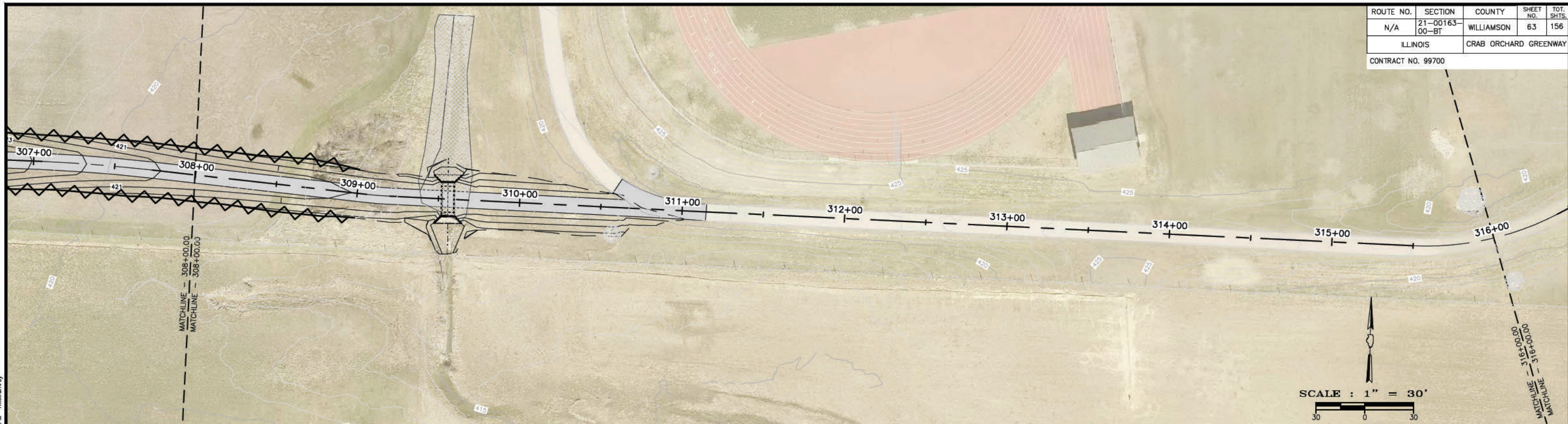
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

EROSION CONTROL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 62 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\06-Construction Drawings - HS to End\21157 - Erosion Control - (STA 293+00.00 to 322+69.41).dwg 4-24-23 01:06:38 PM mikkurrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	63	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\06-Construction Drawings - HS to End\21157 - Erosion Control - (STA 293+00.00 to 322+69.41).dwg 4-24-23 01:06:51 PM mikmurrey

LEGEND	
	PERIMETER EROSION BARRIER
	PROPOSED INLET AND PIPE PROTECTION
	DITCH CHECK
	EROSION CONTROL BLANKET

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**EROSION CONTROL**  
**CRAB ORCHARD GREENWAY**  
**WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 63 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	64	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 11 - DETAILS - PARKING LOT.dwg 4-24-23 01:07:28 PM mkrumrey



STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**PARKING LOT DETAIL  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date: FEB. 2023 DR. By: CWB CK'D By: CWB  
 Scale: Job No. 21157 Sheet No. 64 of 156



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	65	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

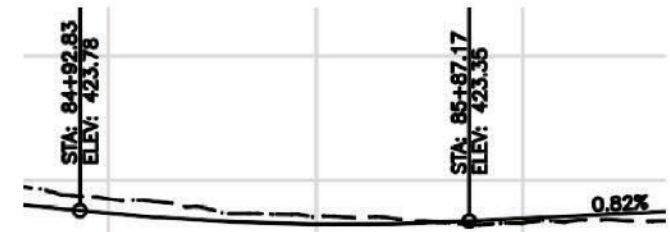
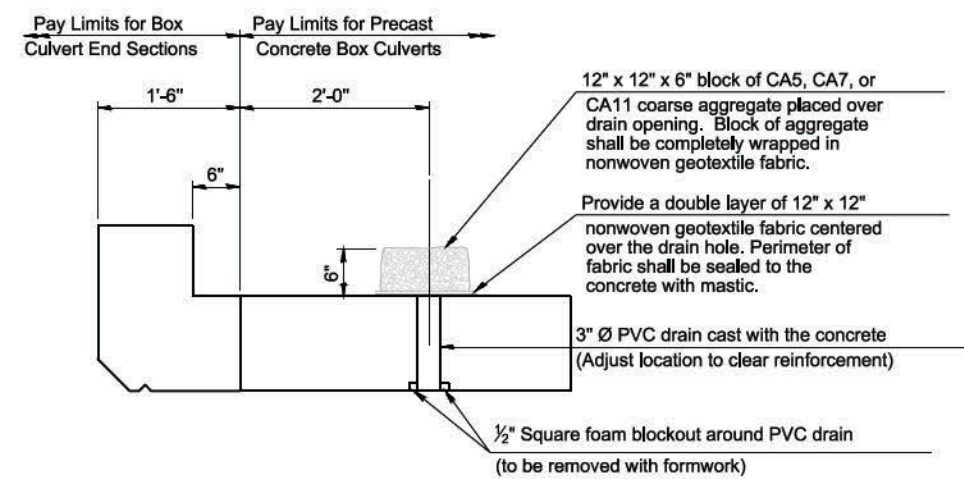
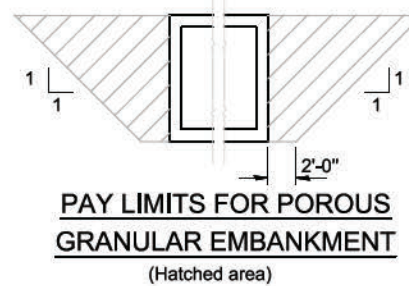
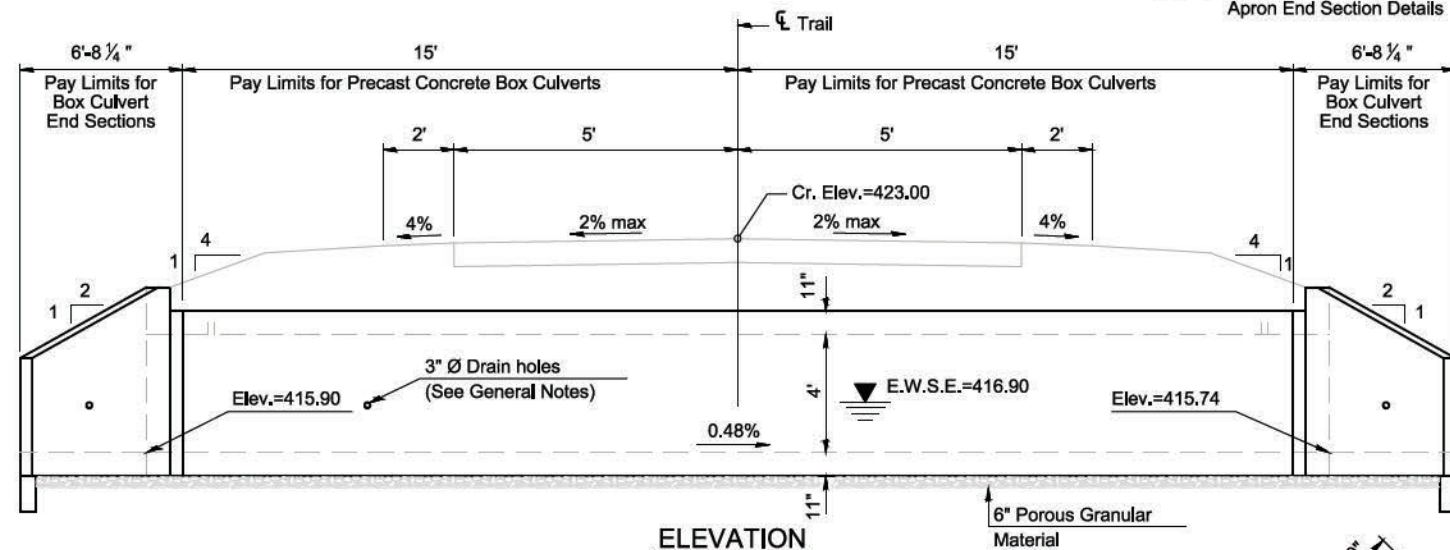
Benchmark:  
Existing Structure: WESTERNAIRE CREEK TRIBUTARY

### INDEX OF SHEETS

- 65. General Plan and Elevation
- 73.-74. Multi-cell Precast Concrete Box Culvert Apron End Section Details

### GENERAL NOTES

The design fill height for this box is ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.  
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.



**PROFILE GRADE**  
Along C.L. of Trail

**DESIGN SPECIFICATIONS**  
2020 AASHTO LRFD Bridge Design Specifications  
Customary U.S. Units, 9th Edition

**LOADING HL-93**

**DESIGN STRESSES**

**PRECAST UNITS**  
f<sub>c</sub> = 5,000 psi  
f<sub>y</sub> = 65,000 psi (Welded Wire Reinforcement)

**FIELD UNITS**  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 65,000 psi (Welded Wire Reinforcement)

**DRAIN DETAIL**  
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

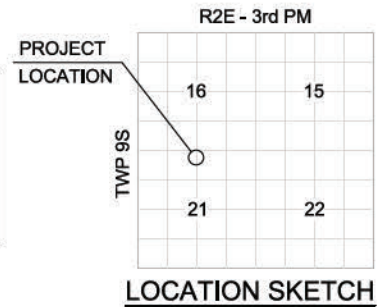
### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 11'x4'	Foot	60
Porous Granular Embankment	Cu. Yd.	50
Structure Excavation	Cu. Yd.	115

**GENERAL PLAN AND ELEVATION**  
**CRAB ORCHARD GREENWAY OVER**  
**WESTERNAIRE CREEK TRIBUTARY**  
**SEC. 21-00163-00-BT**  
**WILLIAMSON COUNTY**  
**STATION 85+85**

**STATION 85+80**  
BUILT BY  
STATE OF ILLINOIS  
SEC. 21-00163-00-BT  
LOADING HL-93

**NAME PLATE**  
See Std. 515001



### WATERWAY INFORMATION

Drainage Area = 0.90 sq. mi. Low Grade Elev. = @ Sta. 85+80

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	408	60	88		5.65	3.72	421.55	419.62
Base	100	526	60	88		6.97	4.46	422.87	420.36
Overtopping									
Max. Calc.	500	671	60	88		7.92	5.44	423.82	421.34

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

© 2021 ALL RIGHTS RESERVED

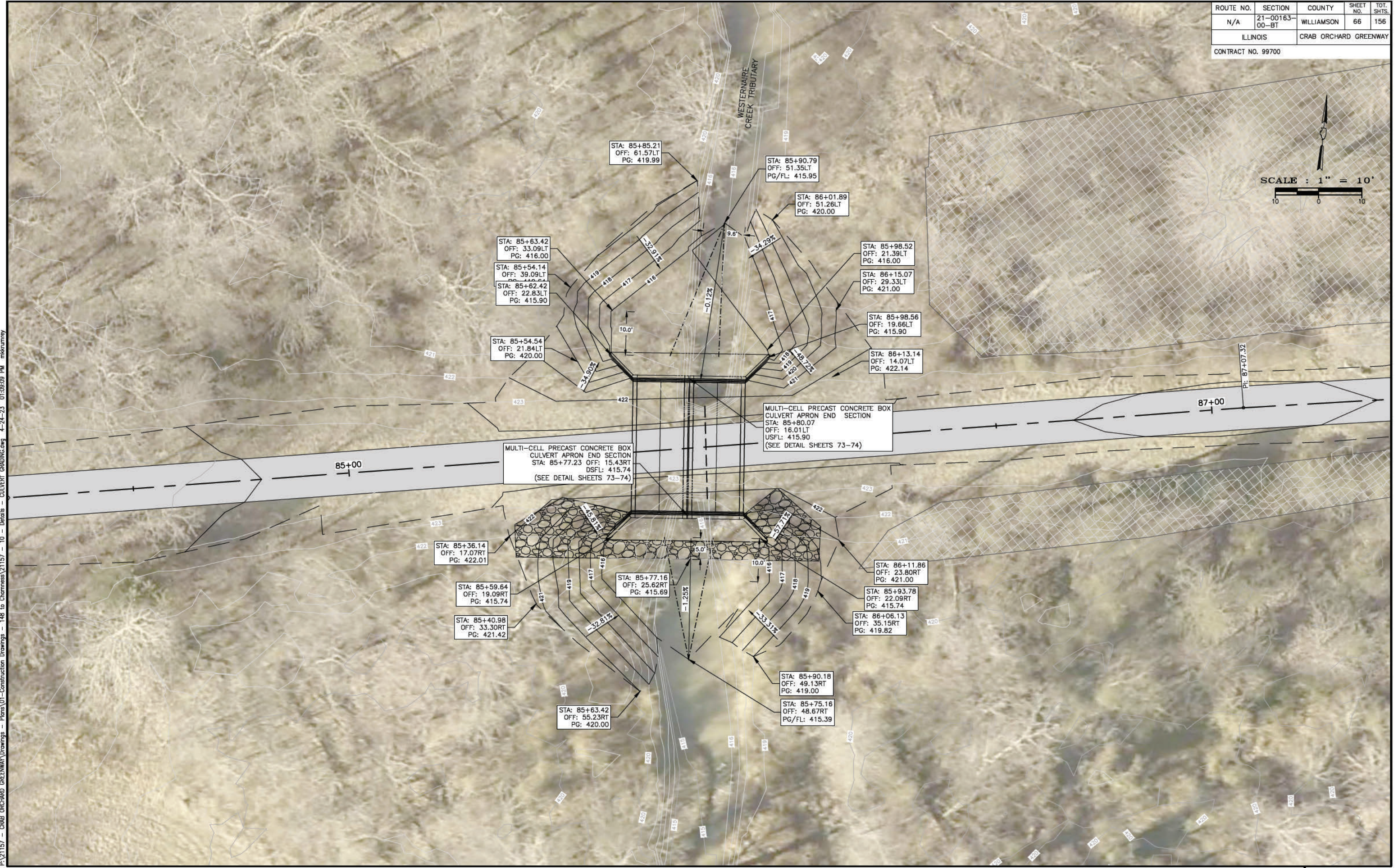
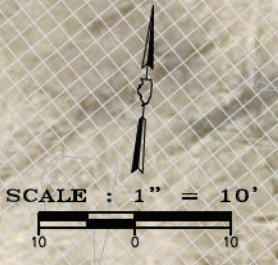
**CLARIDA & ZIEGLER**  
**ENGINEERING CO.**  
410 North Court St, P.O. Box 937  
Marion, Illinois 62959  
Phone - (618)993-6411, Fax - (618)993-6750

**DETAIL CULVERT - STA 85+85**  
**CRAB ORCHARD GREENWAY**  
**WILLIAMSON COUNTY, ILLINOIS**

Date: FEB. 2023 DR. By: CWB CK'D By: CWB  
Scale: Job No. 21157 Sheet No. 65 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 10 - DETAILS 85+80 DCB-GPE.dwg 4-25-23 08:03:23 AM mkkumney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	66	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



PA\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\01-Construction Drawings - 148 to Chermess\21157 - 10 - Details - CULVERT GRADING.dwg 4-24-23 01:09:09 PM mikourney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	67	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

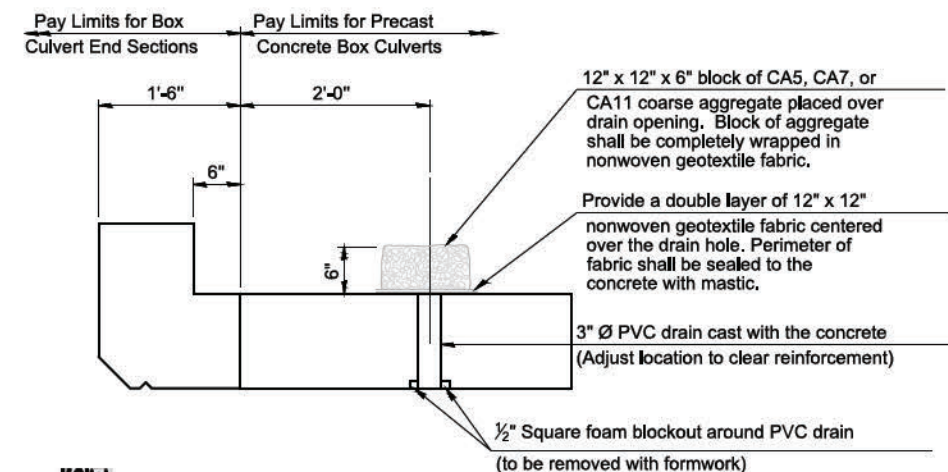
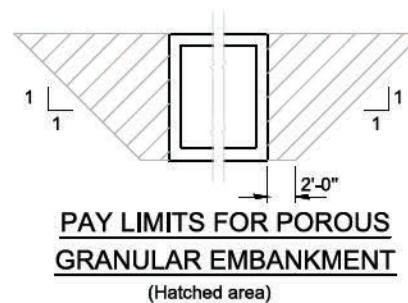
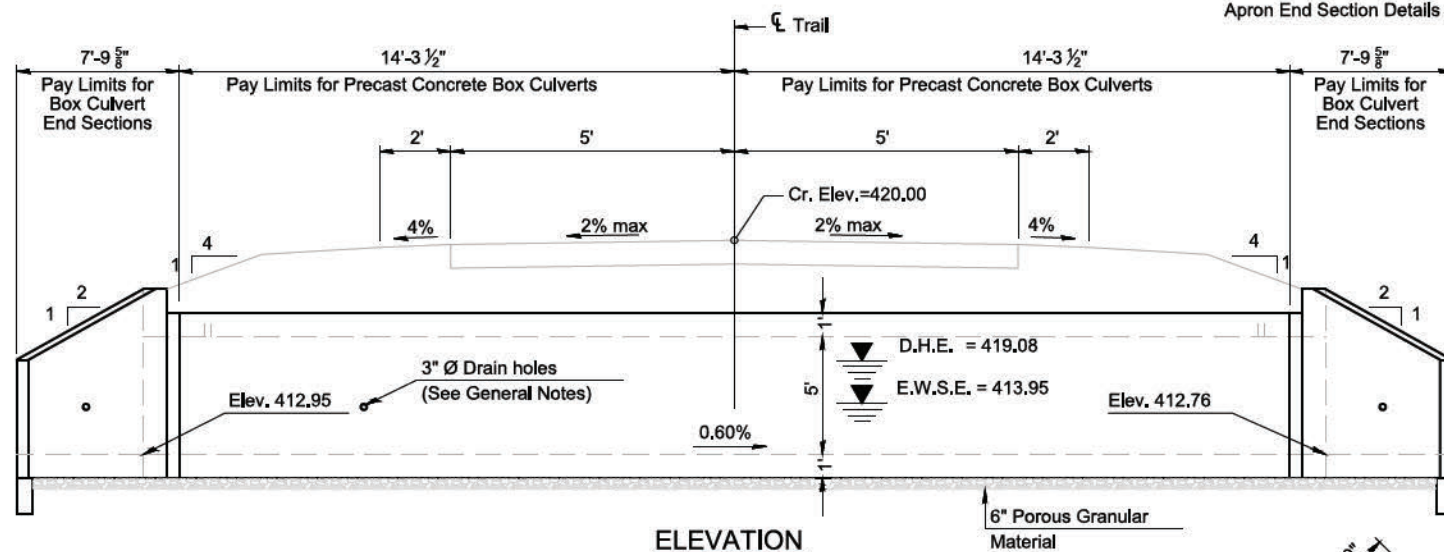
Benchmark:  
Existing Structure: WESTERNAIRE CREEK

### INDEX OF SHEETS

- 67. General Plan and Elevation
- 73.-74. Multi-cell Precast Concrete Box Culvert Apron End Section Details

### GENERAL NOTES

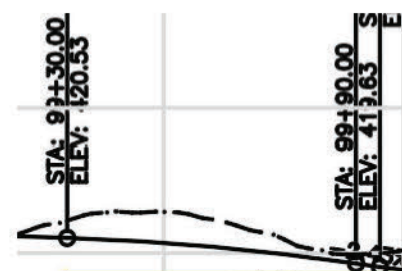
The design fill height for this box is ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.  
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 2	Each	2
Precast Concrete Box Culverts, 12'x5'	Foot	28.7
Porous Granular Embankment	Cu. Yd.	50
Structure Excavation	Cu. Yd.	80



### DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications  
Customary U.S. Units, 9th Edition

### LOADING HL-93

### DESIGN STRESSES

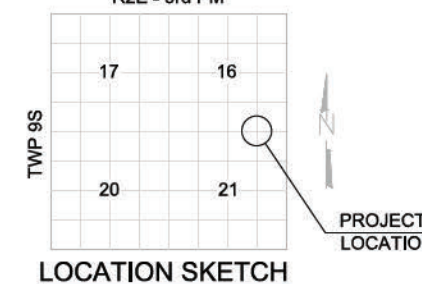
**PRECAST UNITS**

f<sub>c</sub> = 5,000 psi  
f<sub>y</sub> = 65,000 psi (Welded Wire Reinforcement)

**FIELD UNITS**

f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 65,000 psi (Welded Wire Reinforcement)

R2E - 3rd PM

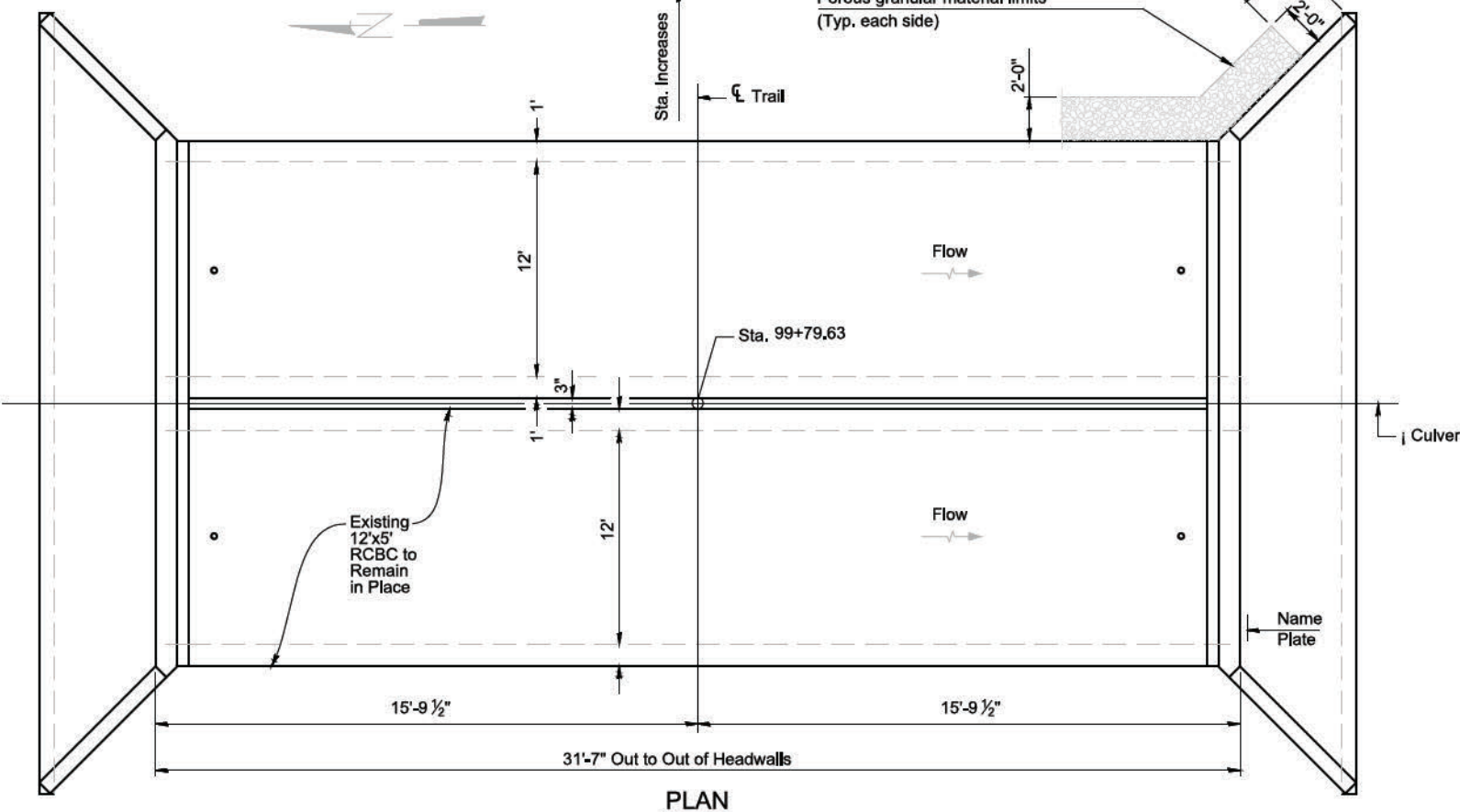


STATION 99+81  
BUILT BY  
STATE OF ILLINOIS  
SEC. 21-00163-00-BT  
LOADING HL-93

**NAME PLATE**  
See Std. 515001

### GENERAL PLAN AND ELEVATION CRAB ORCHARD GREENWAY OVER WESTERNAIRE CREEK SEC. 21-00163-00-BT WILLIAMSON COUNTY STATION 99+79.63

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
© 2021 ALL RIGHTS RESERVED	
<b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b>	
410 North Court St., P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>DETAIL CULVERT - STA 99+79.63 CRAB ORCHARD GREENWAY WILLIAMSON COUNTY, ILLINOIS</b>	
Date: FEB. 2023	DR. By: CWB
Scale:	Job No. 21157 Sheet No. 67 of 156



### WATERWAY INFORMATION

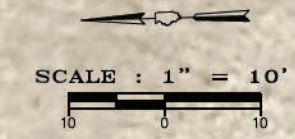
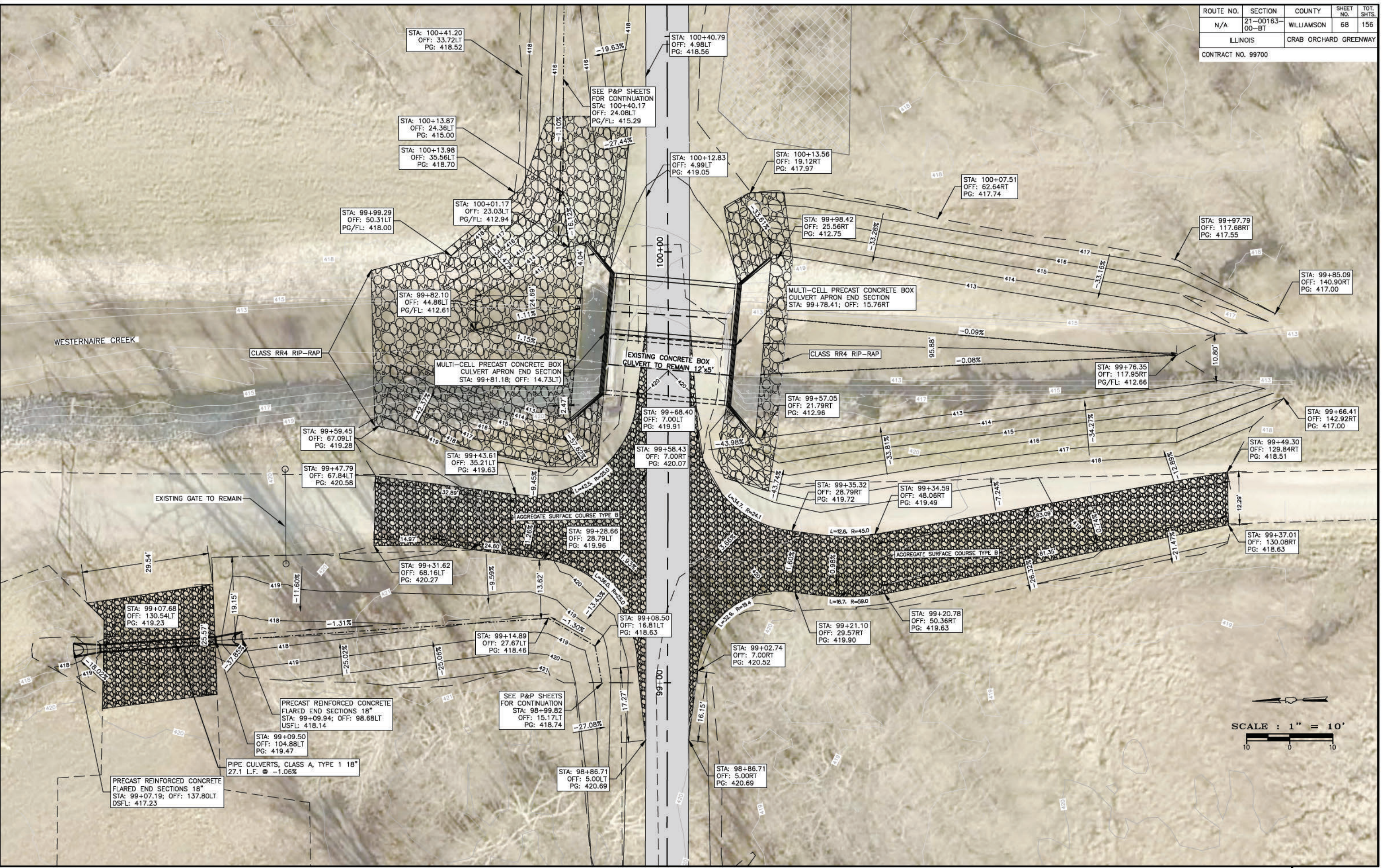
Drainage Area = 1.31 sq. mi. Low Grade Elev. 412.95 = @ Sta. 99+81

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	592	N/A	120	419.24	6.33	6.13	419.28	419.08
Base	100	759	N/A	120	419.57	6.66	6.46	419.61	419.41
Overtopping									
Max. Calc.	500	968	N/A	120	419.95	7.00	6.85	419.95	419.80

DCB-GPE 7-23-2021

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	68	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

PA\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\01-Construction Drawings - 148 to Chermess\21157 - 10 - Details - CULVERT GRADING.dwg 4-24-23 01:10:50 PM mikourmey



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	69	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### INDEX OF SHEETS

- 69. General Plan and Elevation
- 73-74 Multi-cell Precast Concrete Box Culvert Apron End Section Details

### GENERAL NOTES

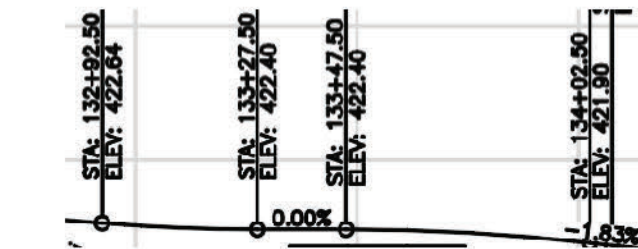
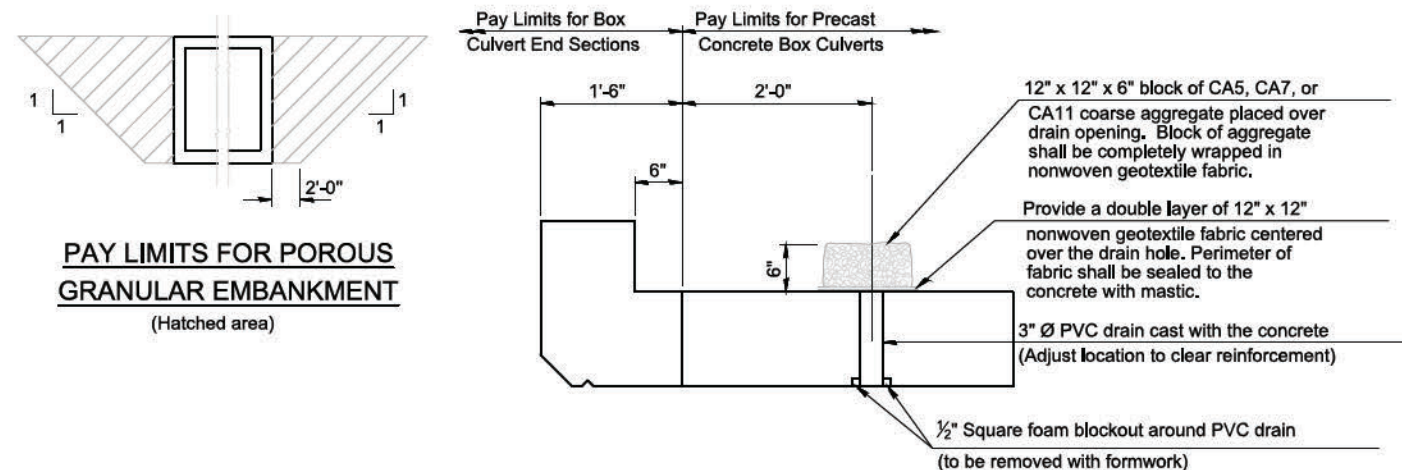
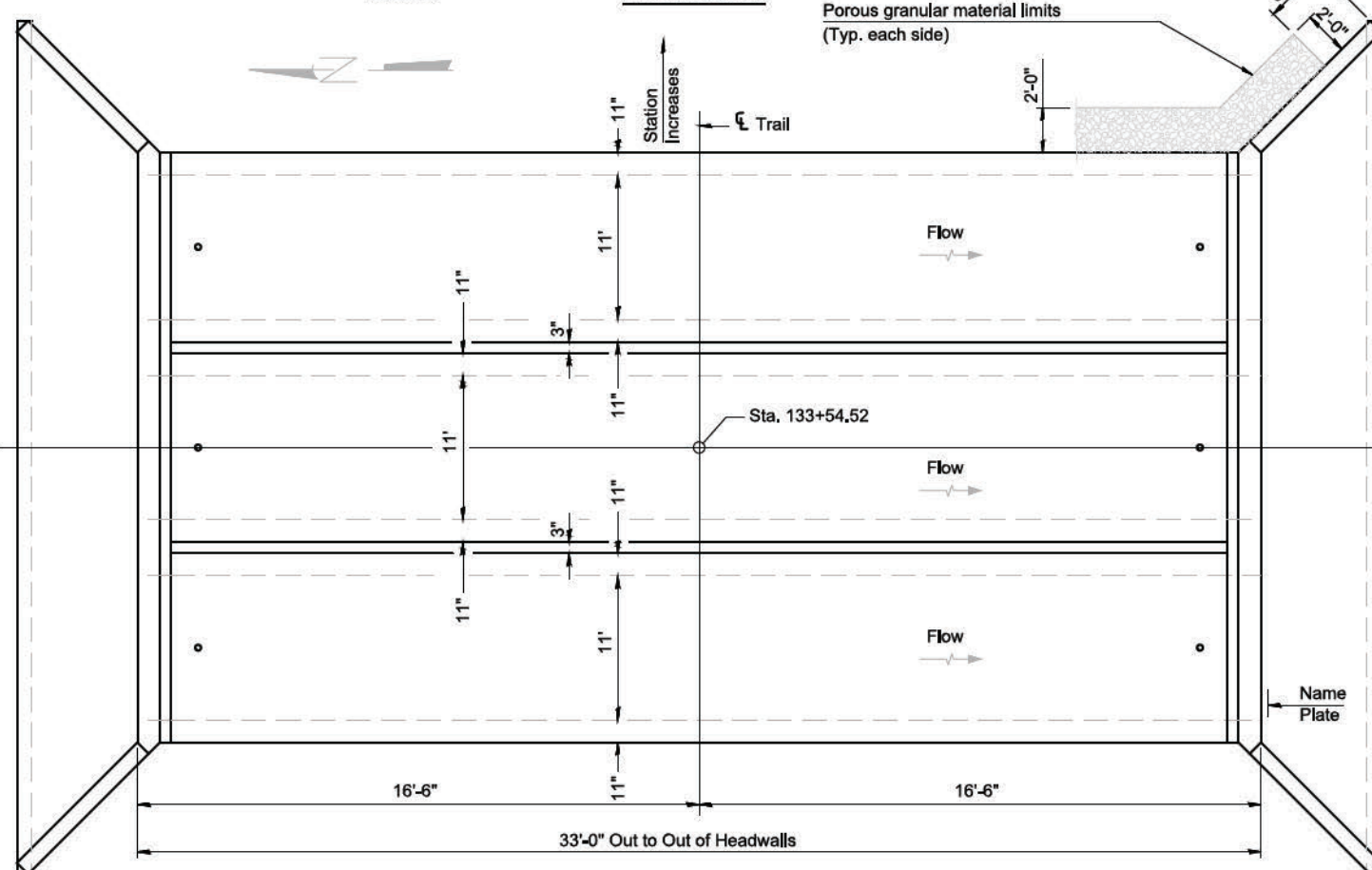
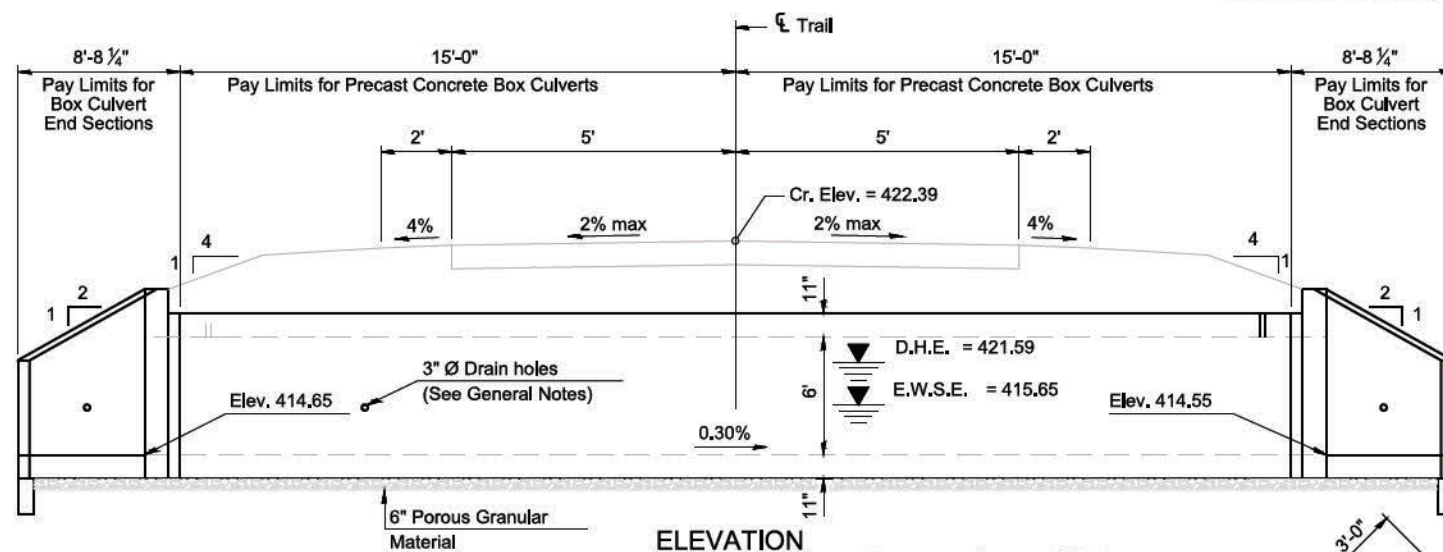
The design fill height for this box is ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Benchmark:  
Existing Structure:



PROFILE GRADE  
Along C.L. of Trail

### DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications  
Customary U.S. Units, 9th Edition

### LOADING HL-93

### DESIGN STRESSES

- PRECAST UNITS**
- $f_c = 5,000$  psi
  - $f_y = 65,000$  psi (Welded Wire Reinforcement)
- FIELD UNITS**
- $f_c = 3,500$  psi
  - $f_y = 65,000$  psi (Welded Wire Reinforcement)

**DRAIN DETAIL**  
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 3	Each	2
Precast Concrete Box Culverts, 11'x6'	Foot	90
Porous Granular Embankment	Cu. Yd.	65
Structure Excavation	Cu. Yd.	185

### GENERAL PLAN AND ELEVATION CRAB ORCHARD GREENWAY OVER CAMPGROUND CREEK SEC. 21-00163-00-BT WILLIAMSON COUNTY STATION 133+54.52

### WATERWAY INFORMATION

Drainage Area = 3.2 sq. mi. Low Grade Elev. = 414.65 at Sta. 133+55

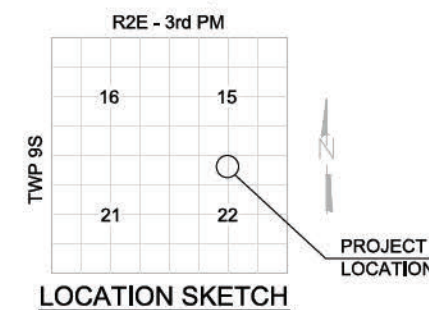
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	15	811	N/A	198	421.11	6.70	6.86	421.35	421.51	
Base	30	989	N/A	198	421.31	6.88	6.94	421.53	421.59	
Overtopping	100	1271	N/A	198	421.59	7.09	7.11	421.74	421.76	
Max. Calc.	>10	500	1623	N/A	198	421.88	7.18	7.31	421.83	421.96

TCB-GPE

7-23-2021

STATION 133+55  
BUILT BY  
STATE OF ILLINOIS  
SEC. 21-00163-00-BT  
LOADING HL-93

NAME PLATE  
See Std. 515001



STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS

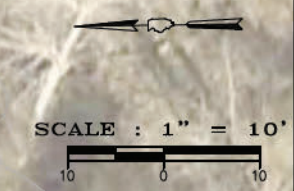
DATE	NO.
FEB. 2023	DR. By CWB

© 2021 ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
410 North Court St, P.O. Box 937  
Marion, Illinois 62959  
Phone - (618)993-6411, Fax - (618)993-6750

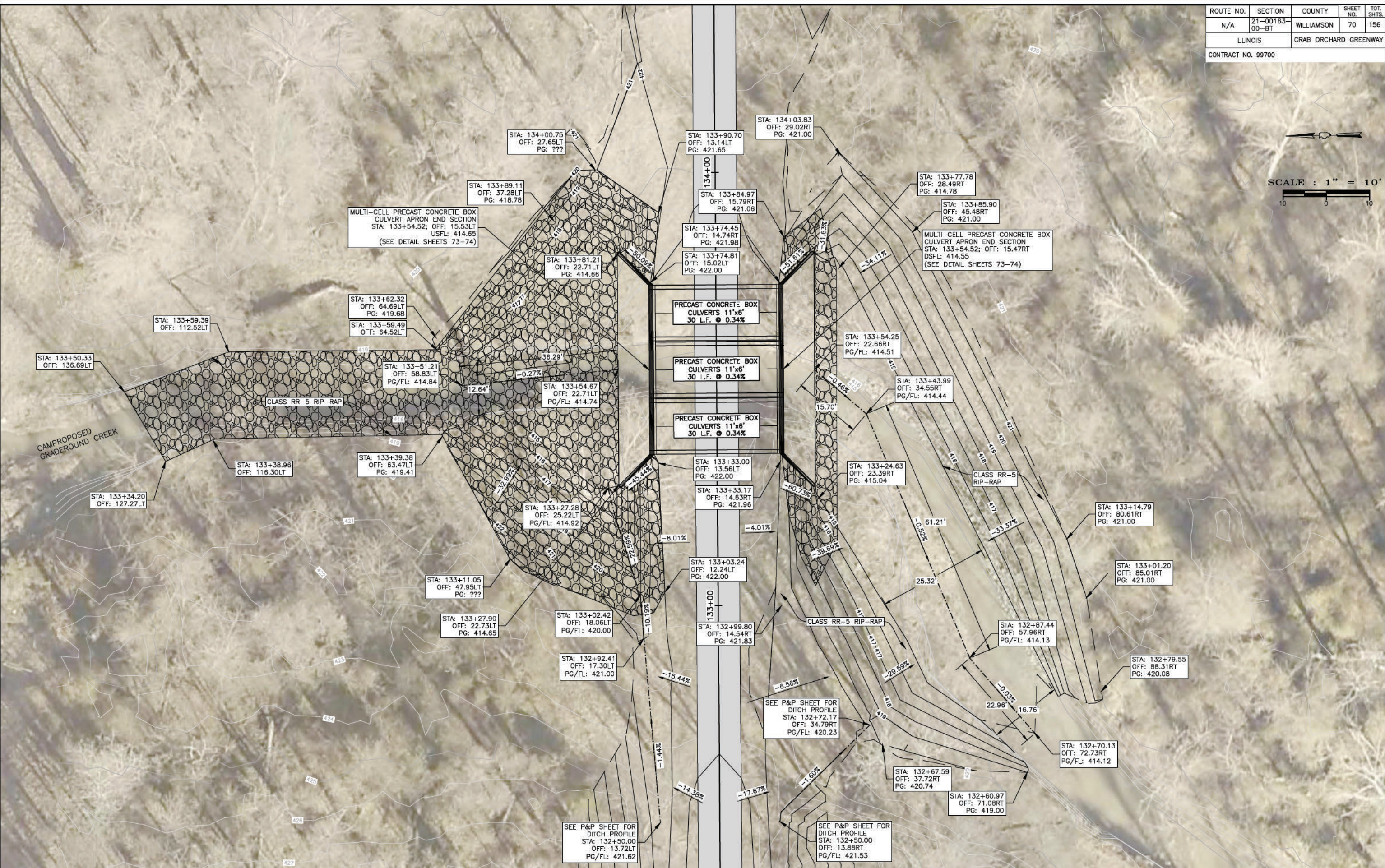
**DETAIL CULVERT - STA 133+54.52  
CRAB ORCHARD GREENWAY  
WILLIAMSON COUNTY, ILLINOIS**

Date: FEB. 2023 DR. By: CWB CK'D By: CWB  
Scale: Job No. 21157 Sheet No. 69 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	70	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



PA\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chemness to Cutch\21157 - 10 - Details - CULVERT GRADING.dwg 4-24-23 01:11:33 PM mikumrey



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	71	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### INDEX OF SHEETS

- 71. General Plan and Elevation
- 73.-74. Multi-cell Precast Concrete Box Culvert Apron End Section Details

### GENERAL NOTES

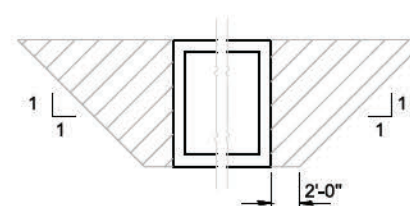
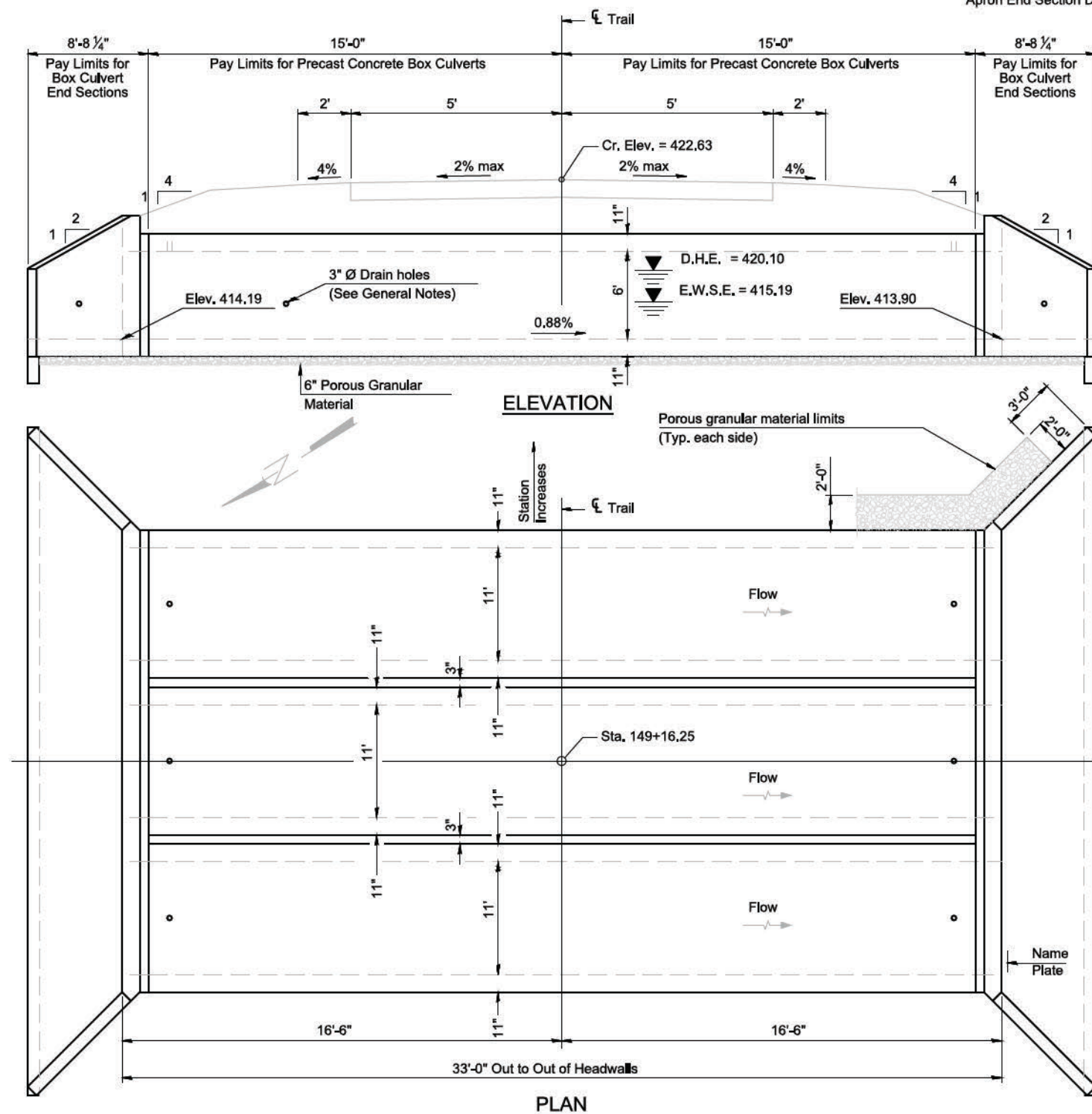
The design fill height for this box is ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

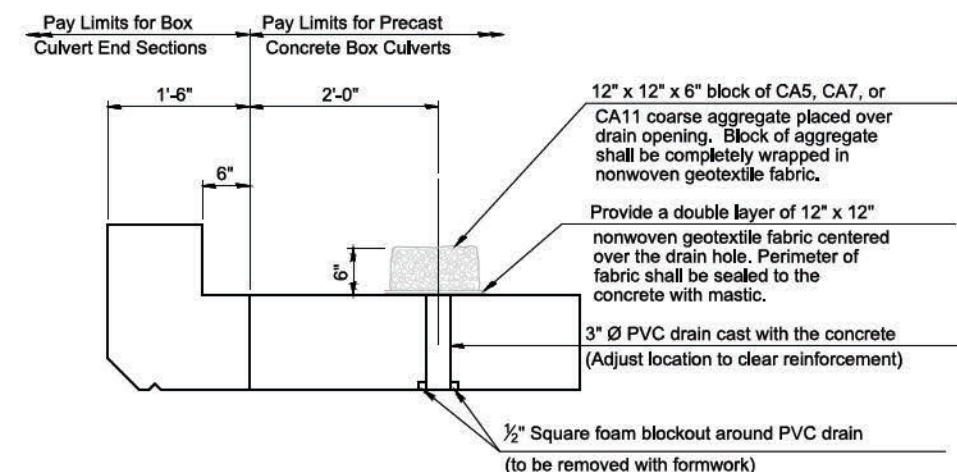
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Benchmark:  
Existing Structure: East Fork Campground Creek



**PAY LIMITS FOR POROUS GRANULAR EMBANKMENT**  
(Hatched area)

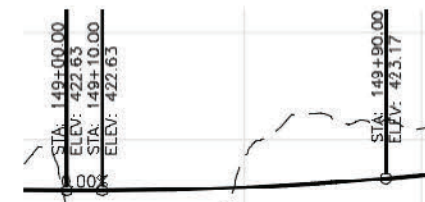


### DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 5	Each	2
Precast Concrete Box Culverts, 11'x6'	Foot	90
Porous Granular Embankment	Cu. Yd.	65
Structure Excavation	Cu. Yd.	185



### PROFILE GRADE

Along C.L. of Trail

### DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications  
Customary U.S. Units, 9th Edition

### LOADING HL-93

### DESIGN STRESSES

**PRECAST UNITS**  
 $f_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

**FIELD UNITS**  
 $f_c = 3,500$  psi  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

### GENERAL PLAN AND ELEVATION CRAB ORCHARD GREENWAY OVER EAST FORK CAMPGROUND CREEK

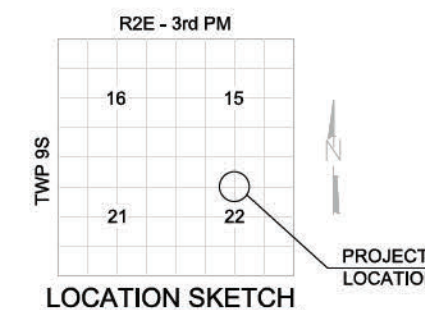
**SEC. 21-00163-00-BT  
WILLIAMSON COUNTY  
STATION 149+16.25**

### WATERWAY INFORMATION

Drainage Area = 1.31 sq. mi.		Low Grade Elev. = 414.19 at Sta. 149+16								
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
	7	447	N/A	198	419.58	5.66	5.37	419.85	419.56	
Design	30	668	N/A	198	420.15	6.50	5.91	420.69	420.10	
Base	100	868	N/A	198	420.53	7.23	6.36	421.42	420.55	
Overtopping	>100									
Max. Calc.	500	1118	N/A	198	420.91	8.17	6.93	422.36	421.12	

STATION 149+16  
BUILT BY  
STATE OF ILLINOIS  
SEC. 21-00163-00-BT  
LOADING HL-93

**NAME PLATE**  
See Std. 515001



**LOCATION SKETCH**

REVISIONS		DATE		NO.	

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

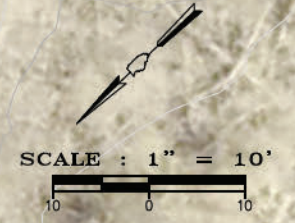
© 2021 ALL RIGHTS RESERVED

**CLARIDA & ZIEGLER ENGINEERING CO.**  
410 North Court St, P.O. Box 937  
Marion, Illinois 62959  
Phone - (618)993-6411, Fax - (618)993-6750

**DETAIL CULVERT - STA 149+16.25.25  
CRAB ORCHARD GREENWAY  
WILLIAMSON COUNTY, ILLINOIS**

Date: FEB. 2023 DR. By: CWB CK'D By: CWB  
Scale: Job No. 21157 Sheet No. 71 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	72	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



PA\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chemness to Catch\21157 - 10 - Details - CULVERT GRADING.dwg 4-24-23 01:12:30 PM mikumrey





**GENERAL NOTES**

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Details for Double Cell Box Culvert shown. Details for Triple Cell Box Culvert similar.

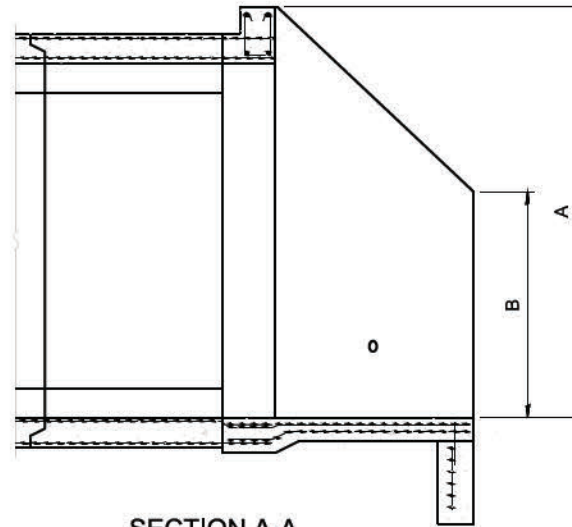
The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

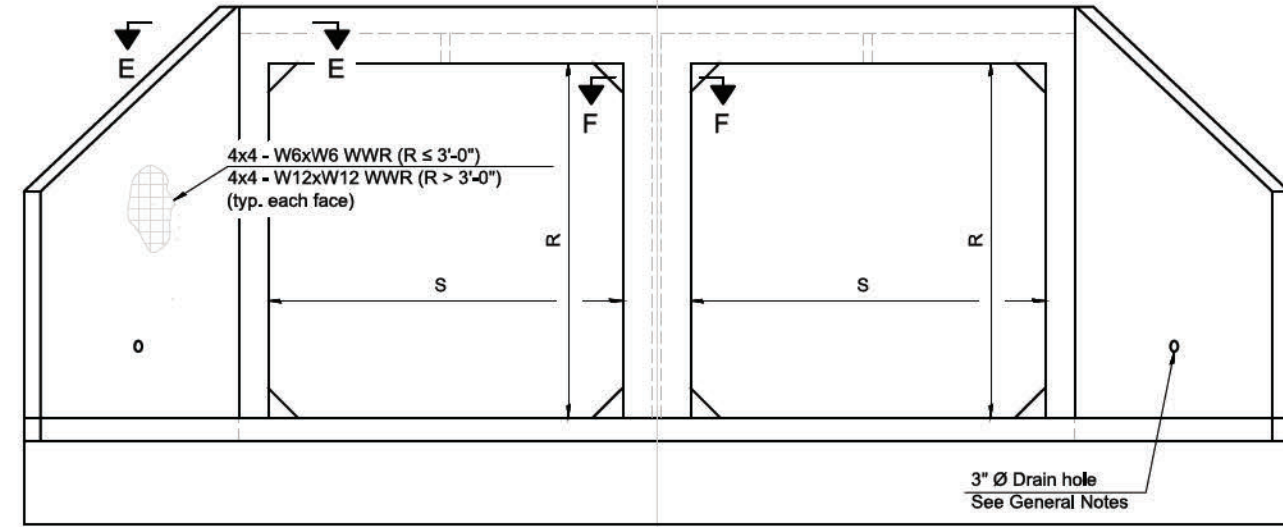
The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



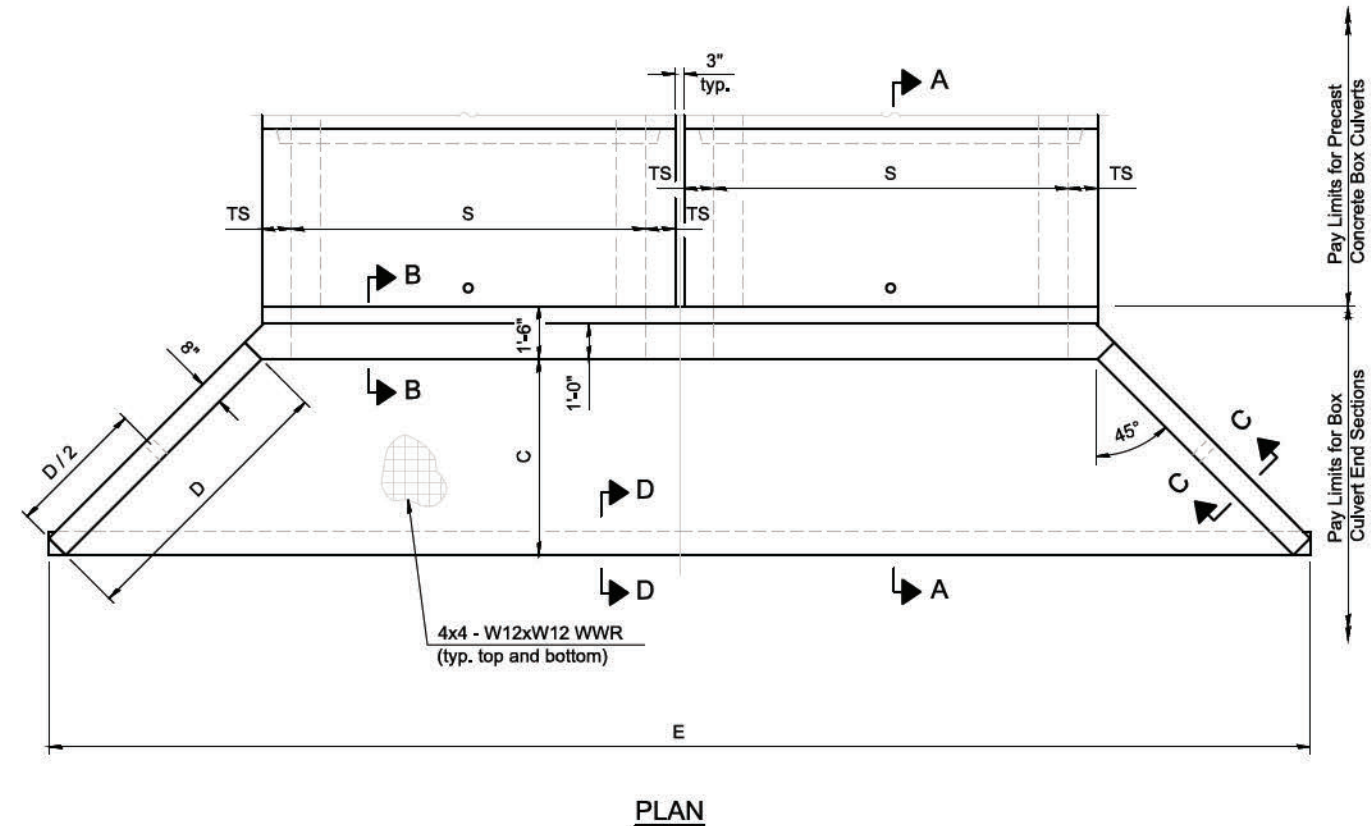
**SECTION A-A**



**END VIEW**

**APRON END SECTION DIMENSIONS**

Span (S)	Rise (R)	Tt, Tb, & Ts	Double Cell				Triple Cell			
			A	B	C	D	E	ConcreteCu. Yd.	E	ConcreteCu. Yd.
7'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	23'-9"	6.6		
7'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	25'-9 1/8"	8.0		
7'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	27'-9 1/8"	9.5		
7'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	29'-9 1/8"	11.2		
7'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	31'-9 1/4"	13.1		
8'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	25'-9"	7.1		
8'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	27'-9 1/8"	8.6		
8'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	29'-9 1/8"	10.2		
8'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	31'-9 1/8"	11.9		
8'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	33'-9 1/4"	13.8		
9'-0"	2'-0"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	28'-3 3/8"	8.2	39'-0 7/8"	11.4
9'-0"	3'-0"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	30'-3 3/8"	9.7	41'-0 7/8"	13.3
9'-0"	4'-0"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	32'-3 3/8"	11.4	43'-0 7/8"	15.4
9'-0"	5'-0"	9"	6'-6"	3'-9"	6'-0 7/8"	8'-7"	34'-4"	13.2	45'-1"	17.6
9'-0"	6'-0"	9"	7'-6"	4'-3"	7'-0 7/8"	9'-11"	36'-2 5/8"	15.1	46'-11 1/8"	19.8
10'-0"	2'-0"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	30'-9 1/4"	9.2	42'-8 1/4"	13.0
10'-0"	3'-0"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	32'-9 1/4"	10.8	44'-8 1/4"	15.0
10'-0"	4'-0"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	34'-9 3/8"	12.6	46'-8 3/8"	17.2
10'-0"	5'-0"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	36'-9 3/8"	14.5	48'-8 3/8"	19.5
10'-0"	6'-0"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	38'-9 3/8"	16.6	50'-8 3/8"	22.0
11'-0"	2'-0"	11"	3'-8"	2'-4"	3'-2 1/8"	4'-7"	33'-4 1/8"	10.4	46'-5 1/8"	14.7
11'-0"	3'-0"	11"	4'-8"	2'-10"	4'-2 1/8"	6'-0"	35'-4 1/8"	12.1	48'-5 1/8"	16.9
11'-0"	4'-0"	11"	5'-8"	3'-4"	5'-2 1/4"	7'-4"	37'-2 3/4"	13.9	50'-3 3/4"	19.1
11'-0"	5'-0"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	39'-2 1/8"	15.8	52'-3 1/8"	21.4
11'-0"	6'-0"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	41'-2 1/8"	18.1	54'-3 1/8"	24.2
12'-0"	2'-0"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	35'-9 1/2"	11.6	50'-0 1/2"	16.5
12'-0"	3'-0"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	37'-9 1/2"	13.4	52'-0 1/2"	18.8
12'-0"	4'-0"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	39'-9 1/8"	15.4	54'-0 1/8"	21.2
12'-0"	5'-0"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	41'-9 1/8"	17.6	56'-0 1/8"	23.8
12'-0"	6'-0"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	43'-9 1/8"	19.8	58'-0 1/8"	26.6



**PLAN**

MULTI-CELL PRECAST CONCRETE BOX CULVERT  
 APRON END SECTION DETAILS:  
 WESTERNAIRE CREEK TRIBUTARY  
 WESTERNAIRE CREEK  
 CAMPGROUND CREEK  
 EAST FORK CAMPGROUND CREEK  
 (Sheet 1 of 2)

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

© 2021 ALL RIGHTS RESERVED

**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**DETAIL MULTI-CELL CULVERT END SECTION  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

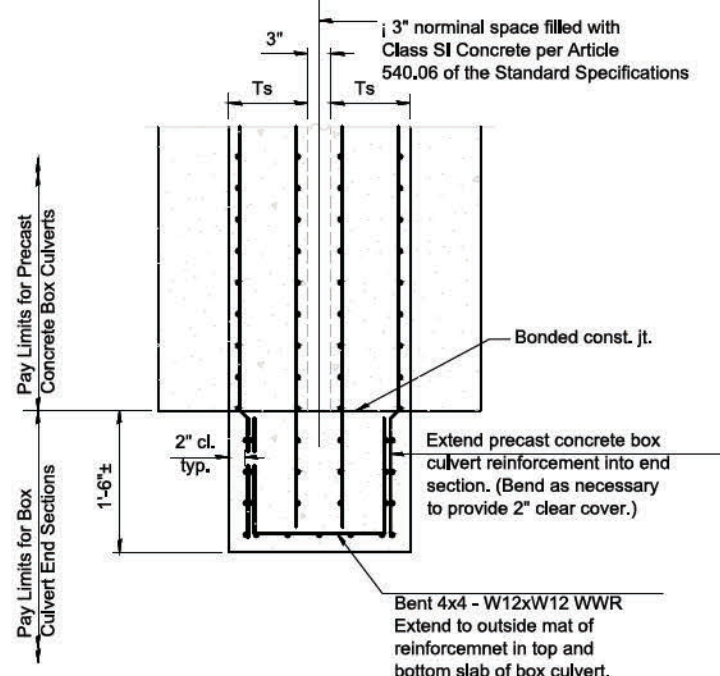
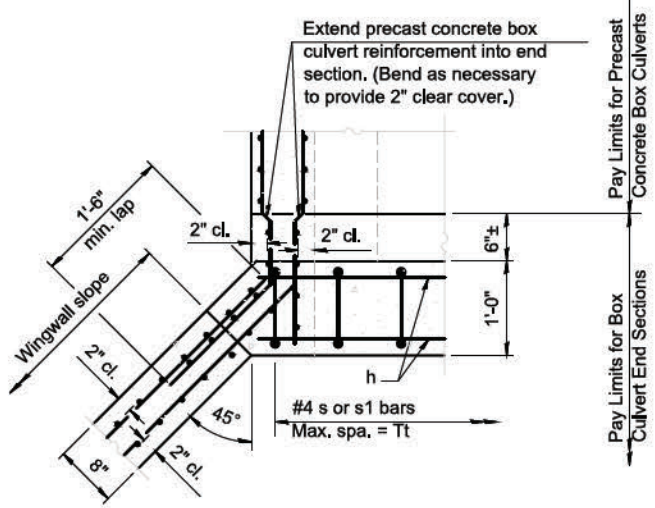
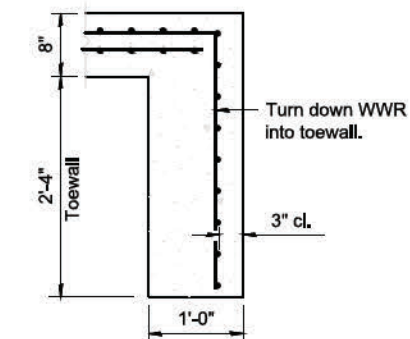
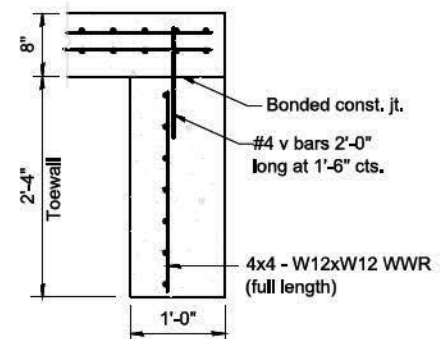
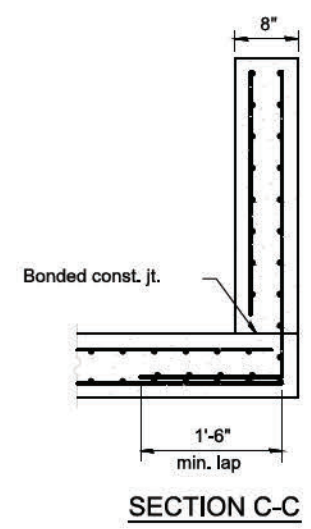
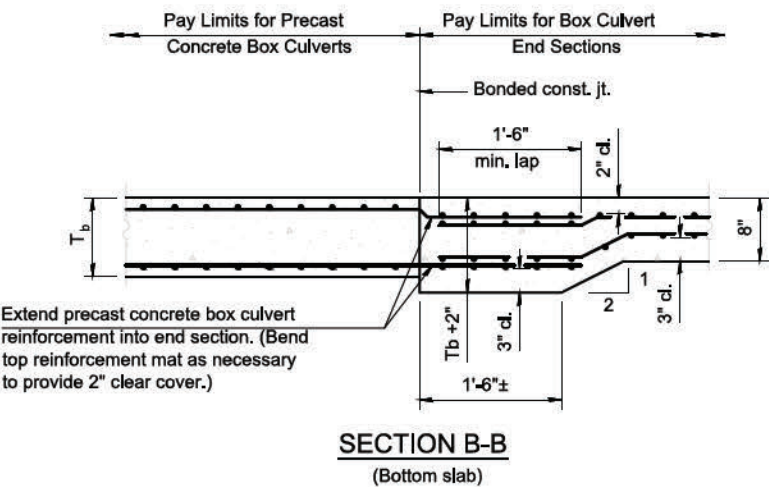
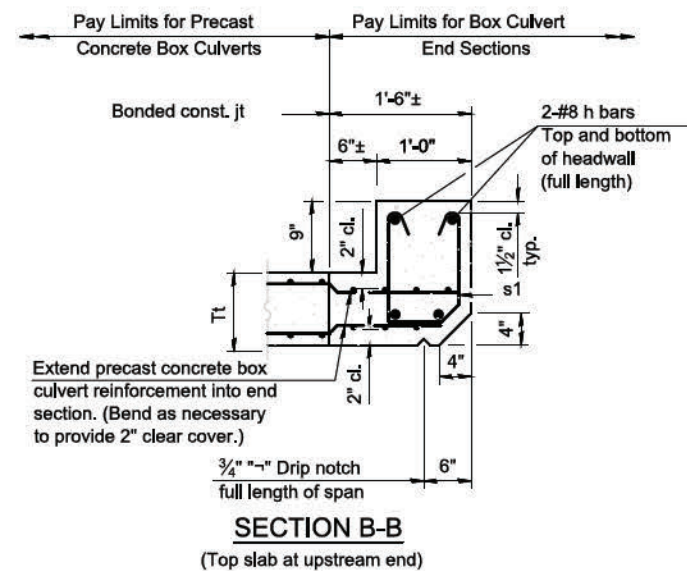
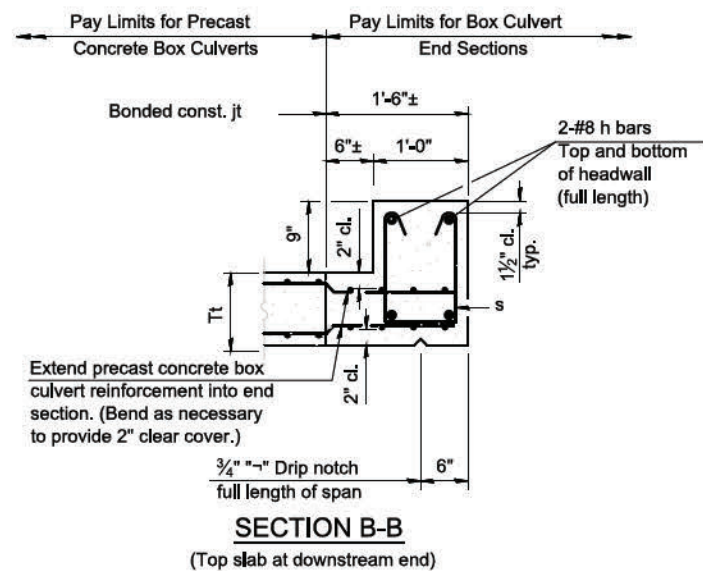
Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale Job No. 21157 Sheet No. 73 of 156

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	73	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	74	156
ILLINOIS		CRAB ORCHARD GREENWAY		

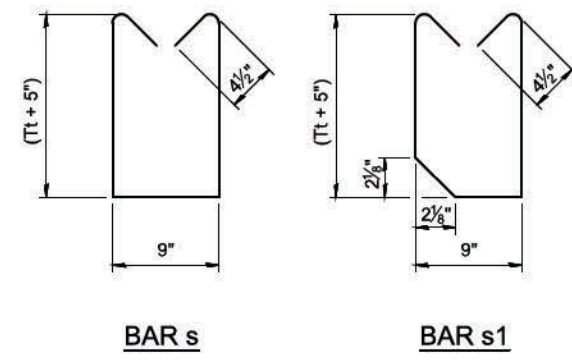
CONTRACT NO. 99700



**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:  
If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



MULTI-CELL PRECAST CONCRETE BOX CULVERT  
APRON END SECTION DETAILS:  
WESTERNAIRE CREEK TRIBUTARY  
WESTERNAIRE CREEK  
CAMPGROUND CREEK  
EAST FORK CAMPGROUND CREEK  
(Sheet 2 of 2)

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
© 2021 ALL RIGHTS RESERVED	
CLARIDA & ZIEGLER ENGINEERING CO.	
410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
DETAIL MULTI-CELL CULVERT END SECTION CRAB ORCHARD GREENWAY WILLIAMSON COUNTY, ILLINOIS	
Date FEB. 2023	DR. By CWB
Scale	Job No. 21157 Sheet No. 74 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 10 - DETAILS MCB-AES 2 of 2.dwg 4-24-23 01:12:39 PM mkkrunney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	75	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### INDEX OF SHEETS

- 75. General Plan and Elevation
- 78-79. Precast Concrete Box Culvert Apron End Section Details

### GENERAL NOTES

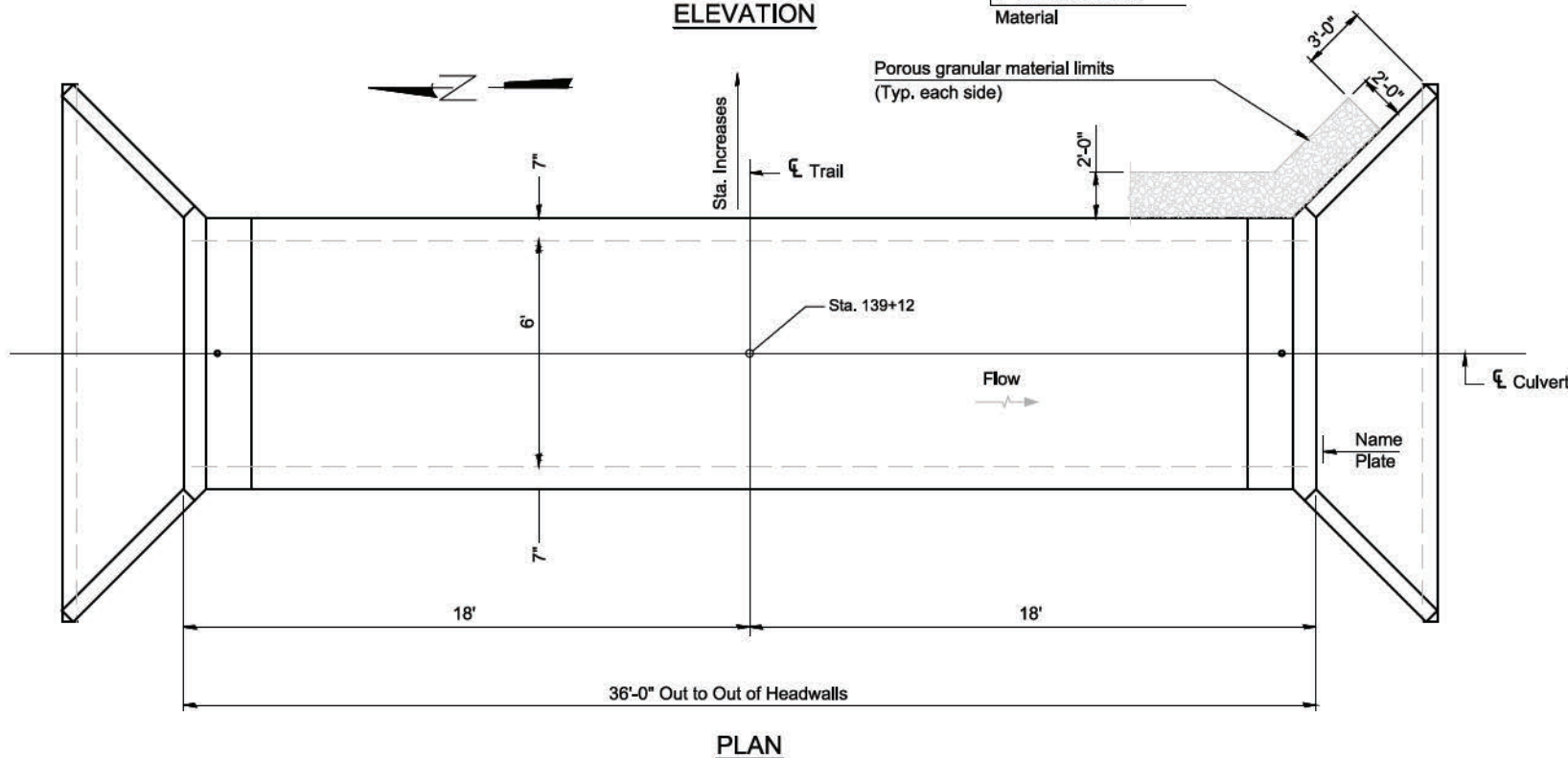
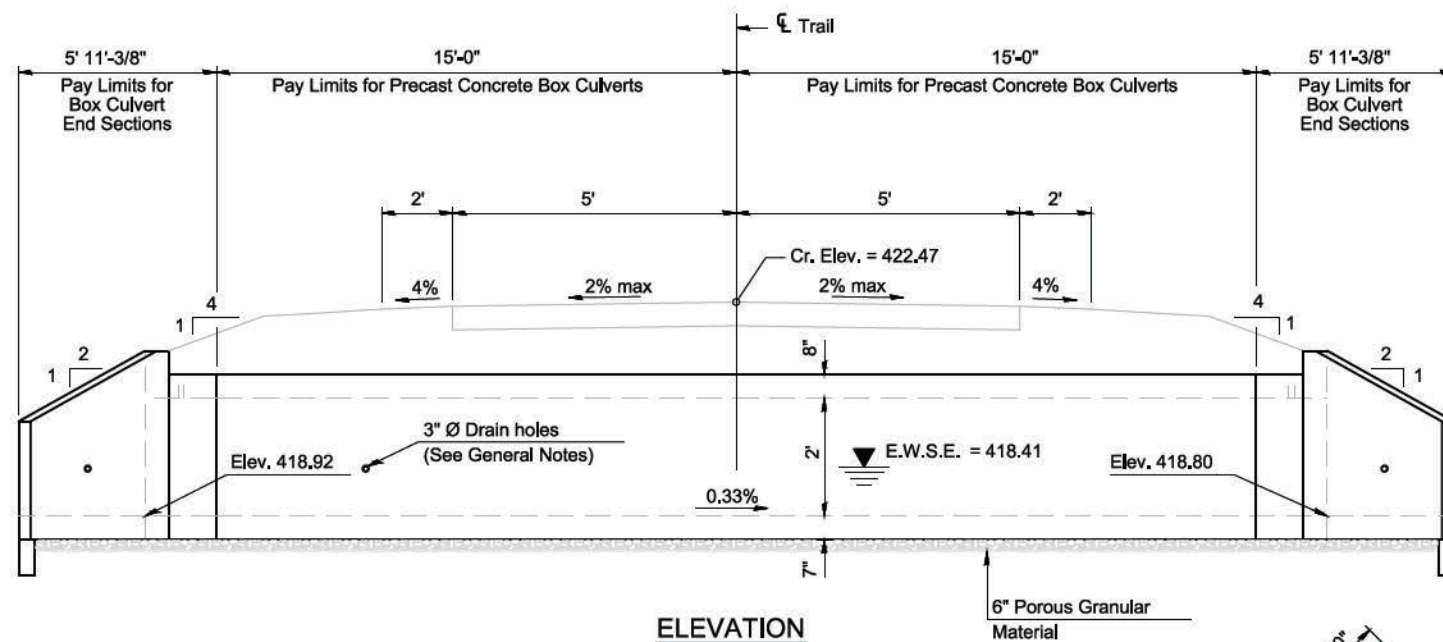
The design fill height for this box is ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

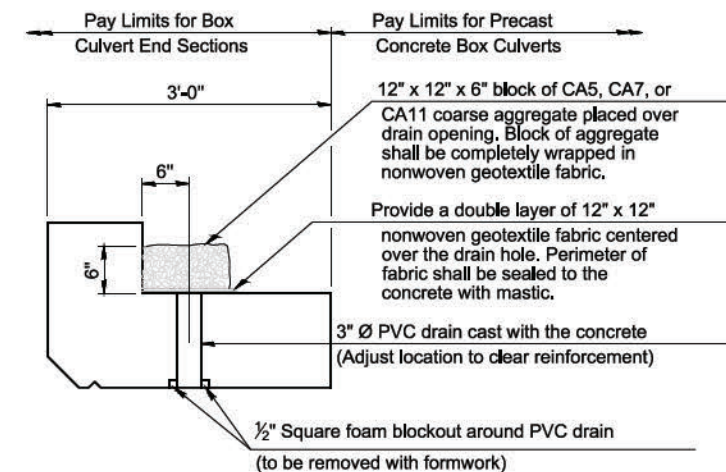
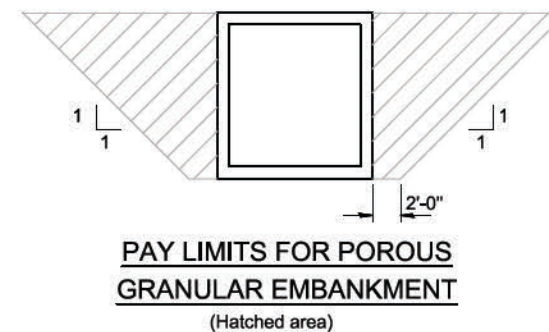
Benchmark:  
Existing Structure: Campground Creek



### \*\* WATERWAY INFORMATION

Drainage Area = sq. mi.		Low Grade Elev. = @ Sta.							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10								
Base	50								
Overtopping	100								
Max. Calc.	500								

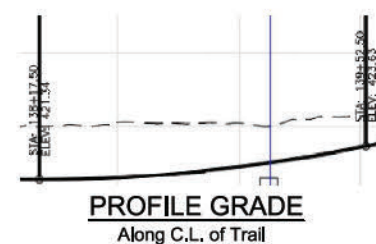
\*\* FOR WATERWAY INFORMATION REFER TO THE CAMPGROUND CREEK WATERWAY TABLE. THIS STRUCTURE IS CONTAINED WITHIN THE CAMPGROUND CREEK FLOODWAY.



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 4	Each	2
Precast Concrete Box Culverts, 6'x2'	Foot	30
Porous Granular Embankment	Cu. Yd.	30
Structure Excavation	Cu. Yd.	30



### DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications  
Customary U.S. Units, 9th Edition

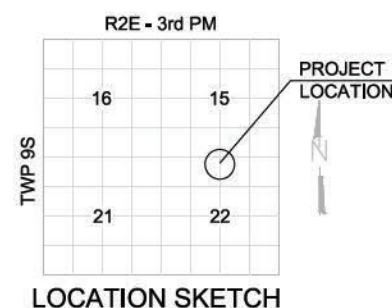
### LOADING HL-93

### DESIGN STRESSES

PRECAST UNITS  
 $f_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

STATION 139+12  
 BUILT BY  
 STATE OF ILLINOIS  
 SEC. 21-00163-00-BT  
 LOADING HL-93

**NAME PLATE**  
See Std. 515001



### GENERAL PLAN AND ELEVATION

### CRAB ORCHARD GREENWAY OVER CAMPGROUND CREEK OVERFLOW

SEC. 21-00163-00-BT  
 WILLIAMSON COUNTY  
 STATION 139+12

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

© 2021 ALL RIGHTS RESERVED

**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**DETAIL CULVERT - STA 139+12  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

REVISIONS	DATE	NO.

Date: FEB. 2023 DR. By: CWB CK'D By: CWB  
 Scale: Job No. 21157 Sheet No. 75 of 156

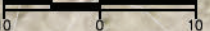
P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 10 - DETAILS 139+12 SOB-GPE.dwg 4-24-23 02:50:33 PM mklumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	76	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				

SCALE : 1" = 10'



SCALE : 1" = 10'



P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\02-Construction Drawings - Chemness to Catch\21157 - 10 - Details - CULVERT GRADING.dwg 4-24-23 01:13:38 PM mikumrey

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	77	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

### INDEX OF SHEETS

- 77. General Plan and Elevation
- 78.-79. Precast Concrete Box Culvert Apron End Section Details

### GENERAL NOTES

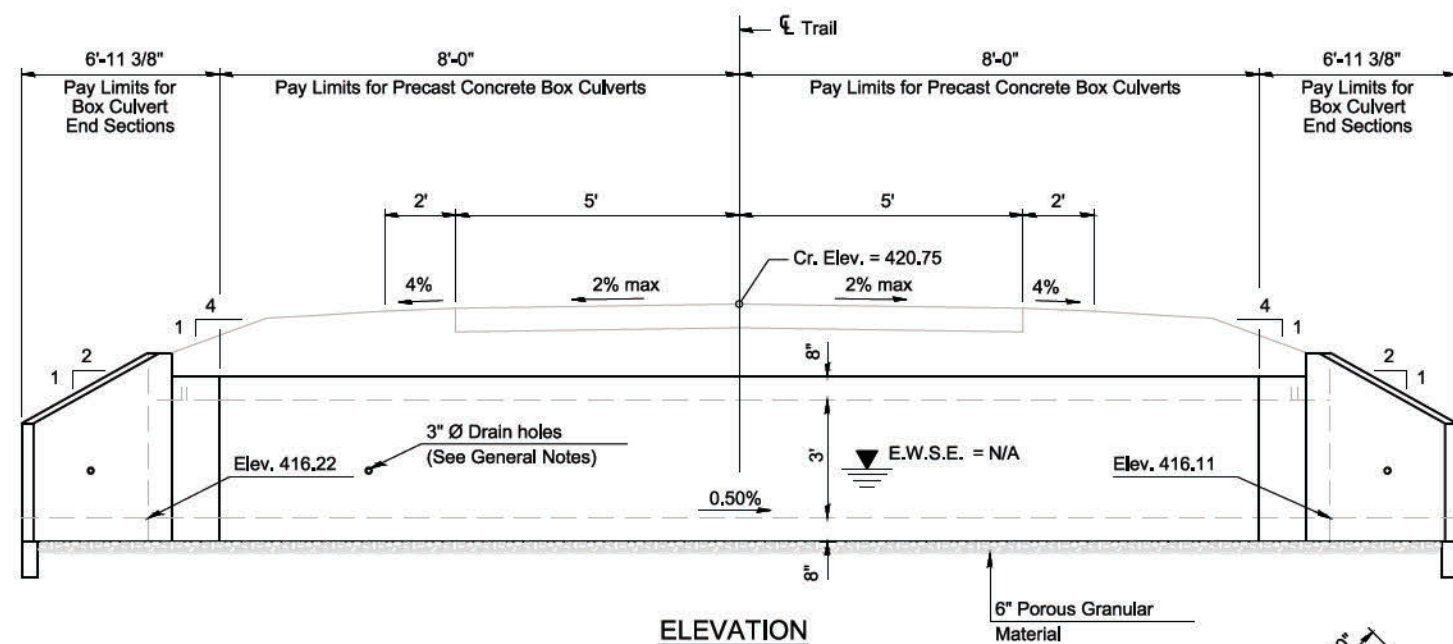
The design fill height for this box is ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

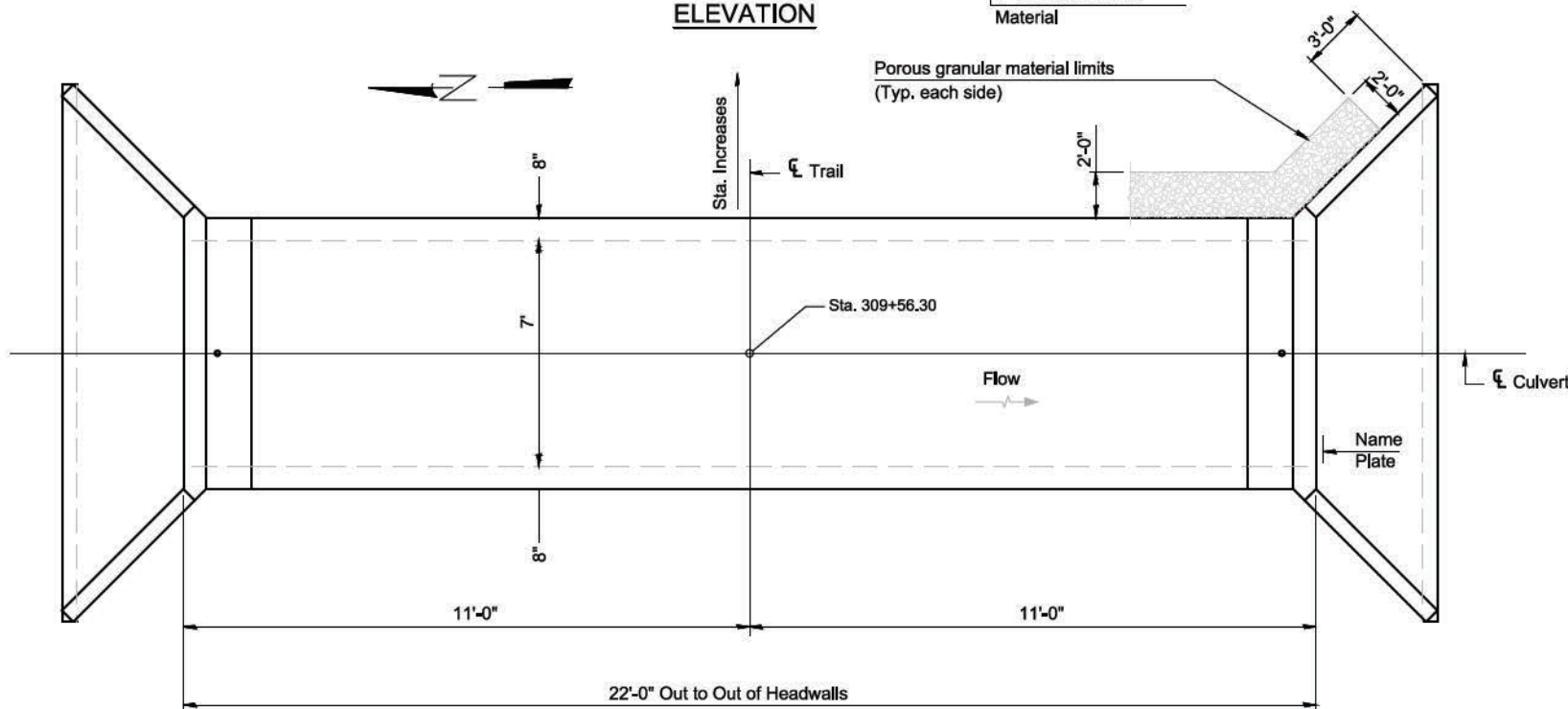
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Benchmark:  
Existing Structure:



**ELEVATION**

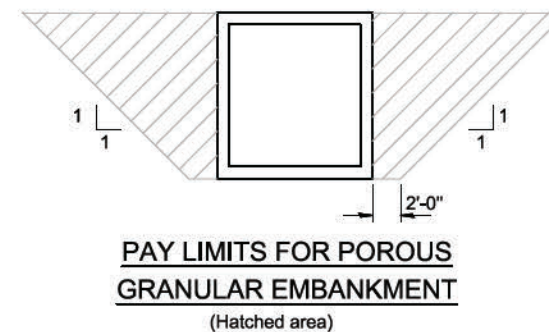


**PLAN**

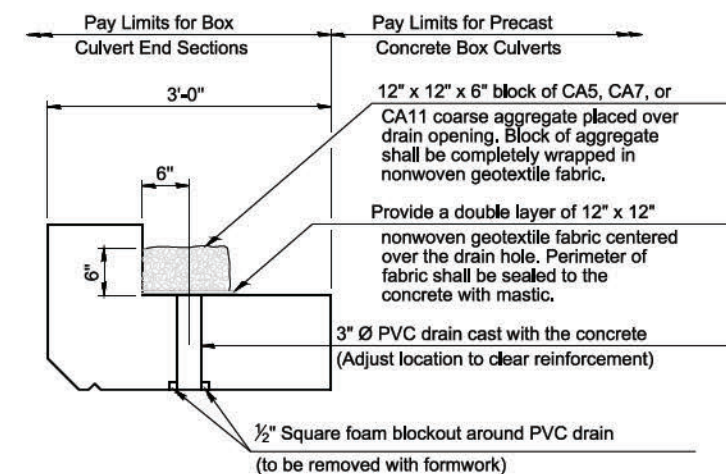
### WATERWAY INFORMATION

Drainage Area = 0.0875 sq. mi. Low Grade Elev. = @ Sta 309+56.30

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	25	107	N/A	21	N/A	N/A	3.28	N/A	419.50
Base	100	146	N/A	21	N/A	N/A	4.14	N/A	420.36
Overtopping									
Max. Calc.	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



**PAY LIMITS FOR POROUS GRANULAR EMBANKMENT**  
(Hatched area)



**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



**PROFILE GRADE**  
Along C.L. of Trail

### DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications  
Customary U.S. Units, 9th Edition

### LOADING HL-93

### DESIGN STRESSES

PRECAST UNITS  
 $f_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

### TOTAL BILL OF MATERIAL

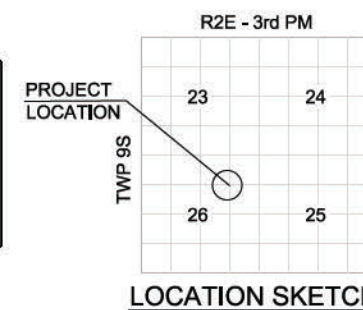
ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 4	Each	2
Precast Concrete Box Culverts, 7'x3'	Foot	16
Porous Granular Embankment	Cu. Yd.	30
Structure Excavation	Cu. Yd.	30

### GENERAL PLAN AND ELEVATION

SEC. 21-00163-00-BT  
WILLIAMSON COUNTY  
STATION 309+56.30

STATION 309+56  
BUILT BY  
STATE OF ILLINOIS  
SEC. 21-00163-00-BT  
LOADING HL-93

**NAME PLATE**  
See Std. 515001



**LOCATION SKETCH**

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

© 2021 ALL RIGHTS RESERVED

**CLARIDA & ZIEGLER ENGINEERING CO.**  
410 North Court St, P.O. Box 937  
Marion, Illinois 62959  
Phone - (618)993-6411, Fax - (618)993-6750

**DETAIL CULVERT - STA 309+56.30**  
CRAB ORCHARD GREENWAY  
WILLIAMSON COUNTY, ILLINOIS

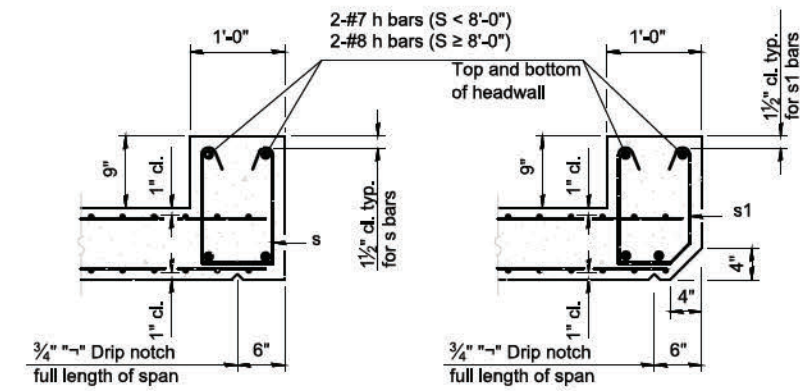
REVISIONS	DATE	NO.

Date FEB. 2023 DR. By CWB CK'D By CWB  
Scale Job No. 21157 Sheet No. 77 of 156



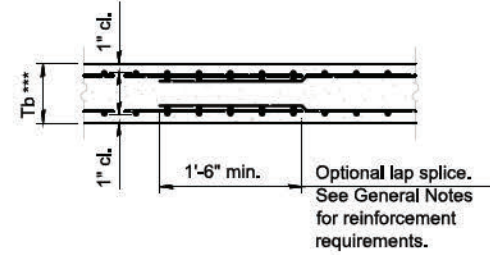
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	79	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

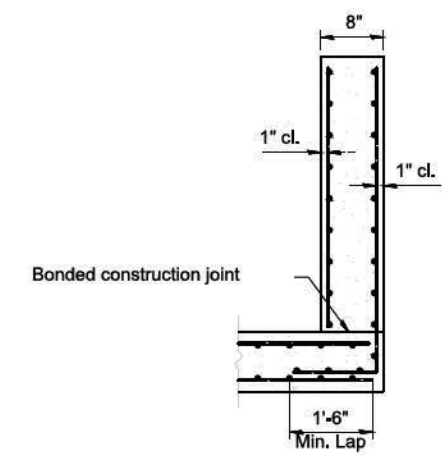


**SECTION B-B**  
(Top slab at downstream end)

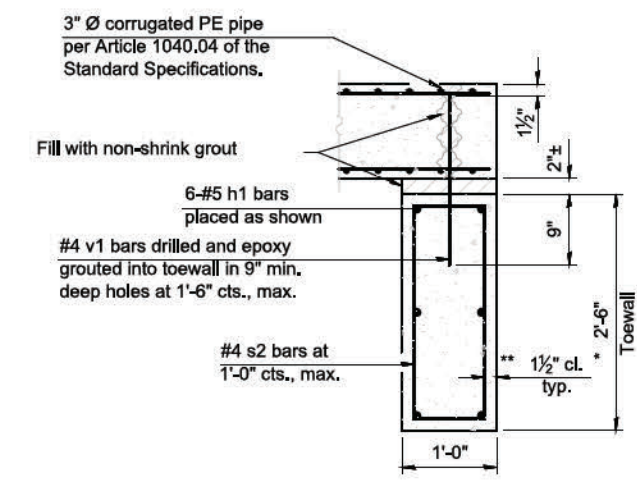
**SECTION B-B**  
(Top slab at upstream end)



**SECTION B-B**  
(Bottom Slab)

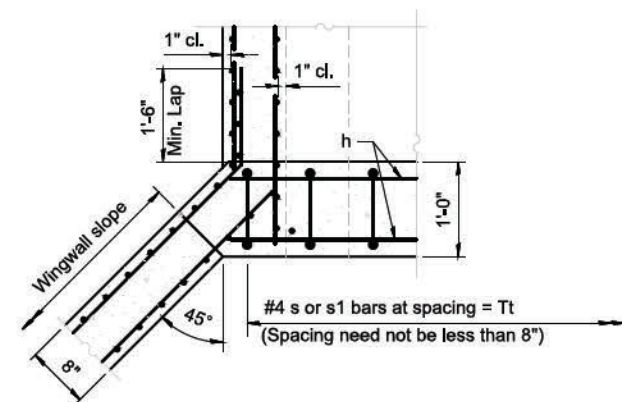


**SECTION C-C**

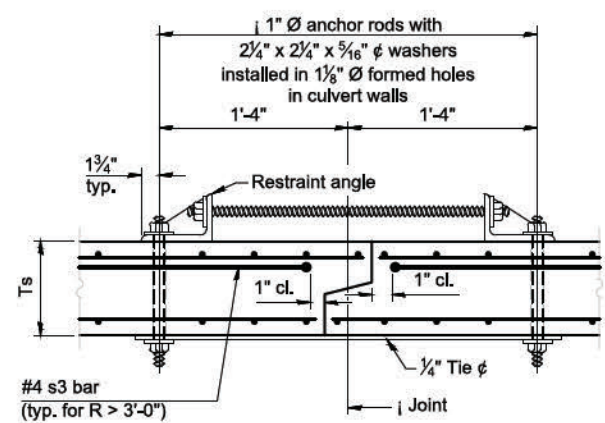


**SECTION D-D**

\*\*\* This dimension shall be increased by 2" for CIP construction.



**SECTION E-E**



**SECTION F-F**  
(Showing culvert tie details)

**TOEWALL CONSTRUCTION SEQUENCE**

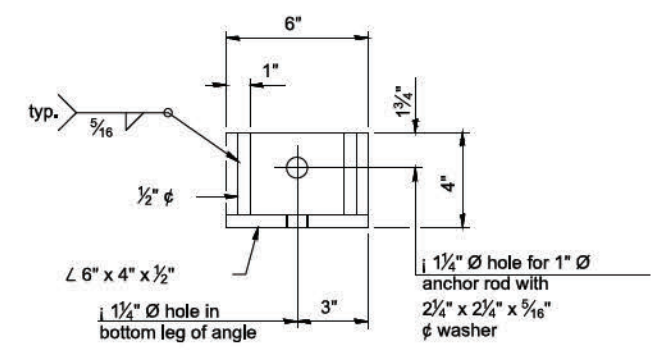
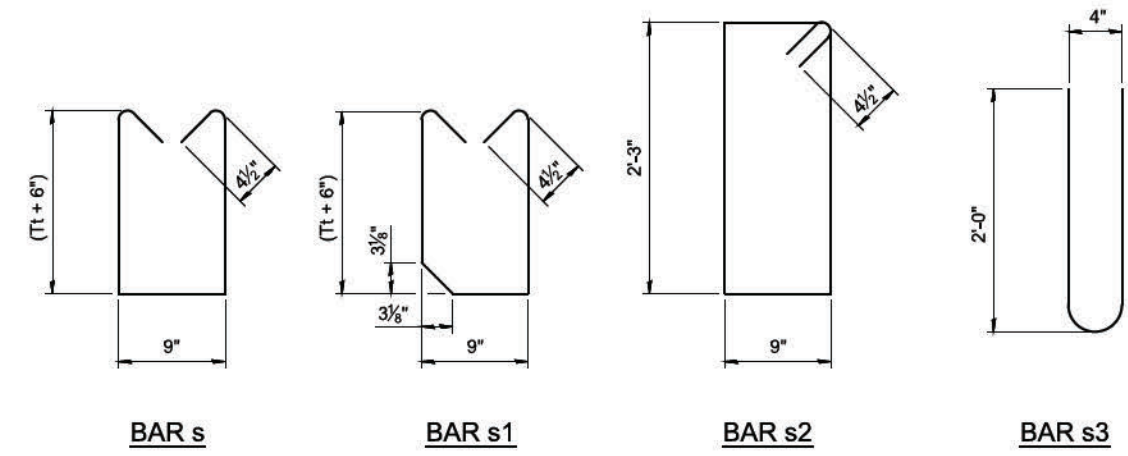
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

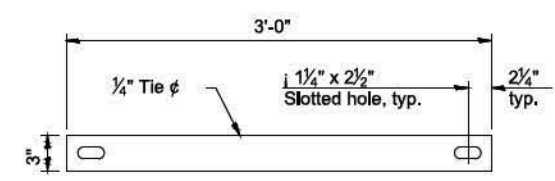
\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

**Notes:**

1"  $\varnothing$  anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.  $2\frac{1}{4}" \times 2\frac{1}{4}" \times \frac{5}{16}"$  plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional  $\frac{1}{2}$  turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**

**PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS: CAMPGROUND CREEK OVERFLOW AND STA. 309+50**

(Sheet 2 of 2)


STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
© 2021 ALL RIGHTS RESERVED	
<b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b>	
410 North Court St., P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>DETAIL SINGLE-CELL CULVERT END SECTION CRAB ORCHARD GREENWAY WILLIAMSON COUNTY, ILLINOIS</b>	
Date	FEB. 2023
DR. By	CWB
CK'D By	CWB
Scale	Job No. 21157 Sheet No. 79 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 10 - DETAILS SCB-AES 2 of 2.dwg 4-24-23 01:13:54 PM mikrauney

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
	21-00163-00-BT	WILLIAMSON	80	156
CRAB ORCHARD GREENWAY				
CONTRACT NO. 99700				

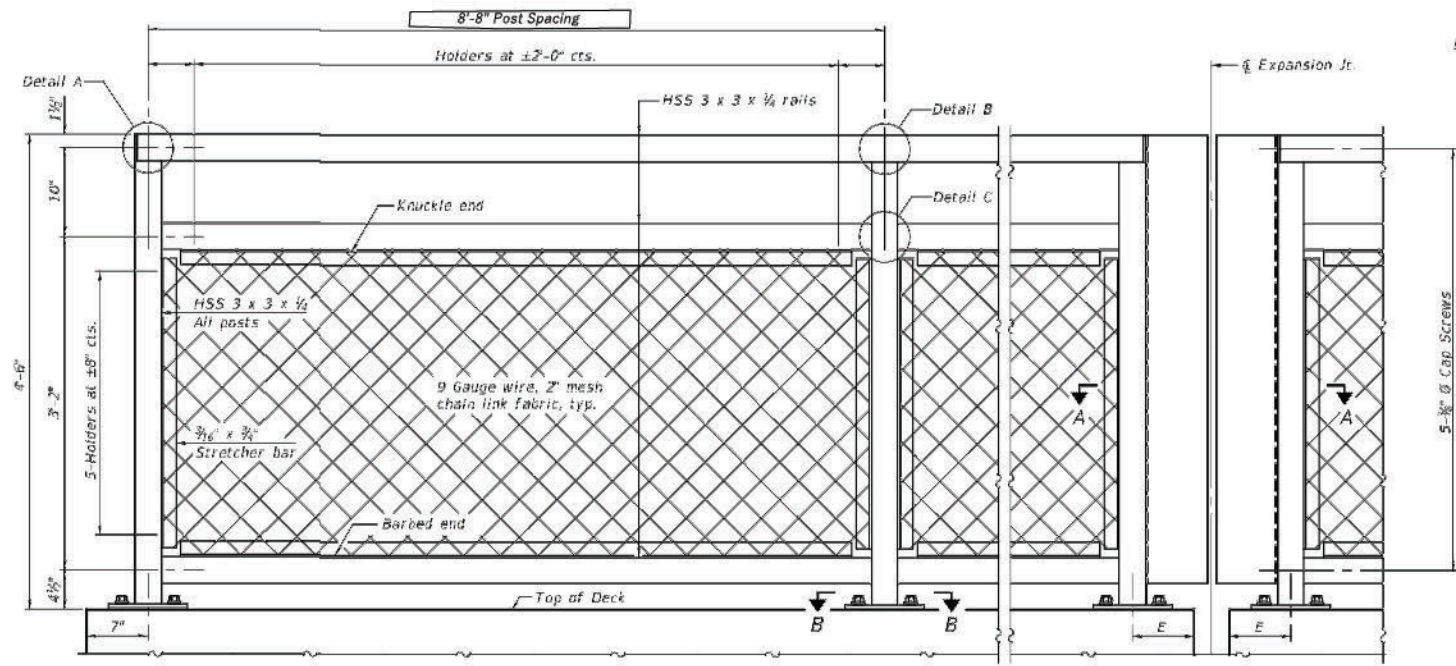
INTENTIONALLY LEFT BLANK

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 09 - DETAILS - RETAINING WALL, BIKE GATE, & MISC. DETAILS.dwg 4-24-23 01:13:58 PM mikrumrey

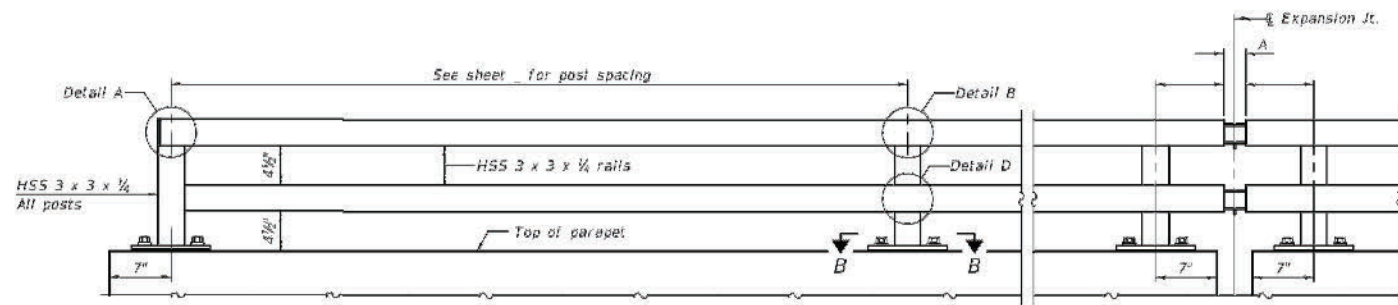
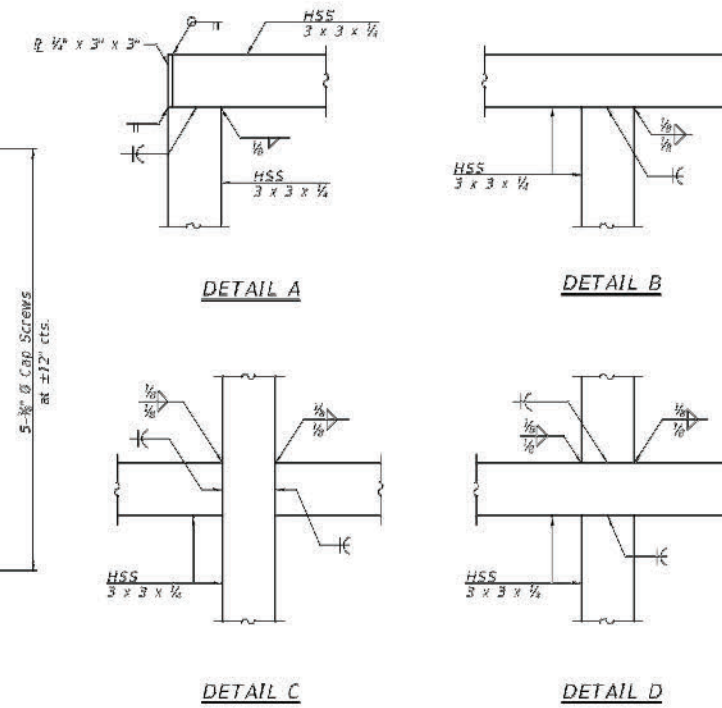
STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
REVISIONS	© ALL RIGHTS RESERVED
DATE NO.	 <b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b>
	410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750
	<b>INTENTIONALLY LEFT BLANK</b> <b>CRAB ORCHARD GREENWAY</b> <b>WILLIAMSON COUNTY, ILLINOIS</b>
Date FEB. 2023	DR. By CWB CK'D By CWB
Scale N.T.S.	Job No. 21157 Sheet No. 80 of 156



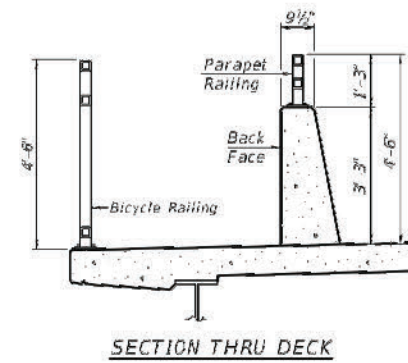
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	B1	156
ILLINOIS		CRAB ORCHARD GREENWAY		
CONTRACT NO. 99700				



ELEVATION BICYCLE RAILING  
 (inside face)



ELEVATION PARAPET RAILING  
 (inside face)



RAILING CRITERIA

MASH 2016 Test Level	4
Parapet Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

R-29 9-1-2022

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS	
DATE	NO.

© ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

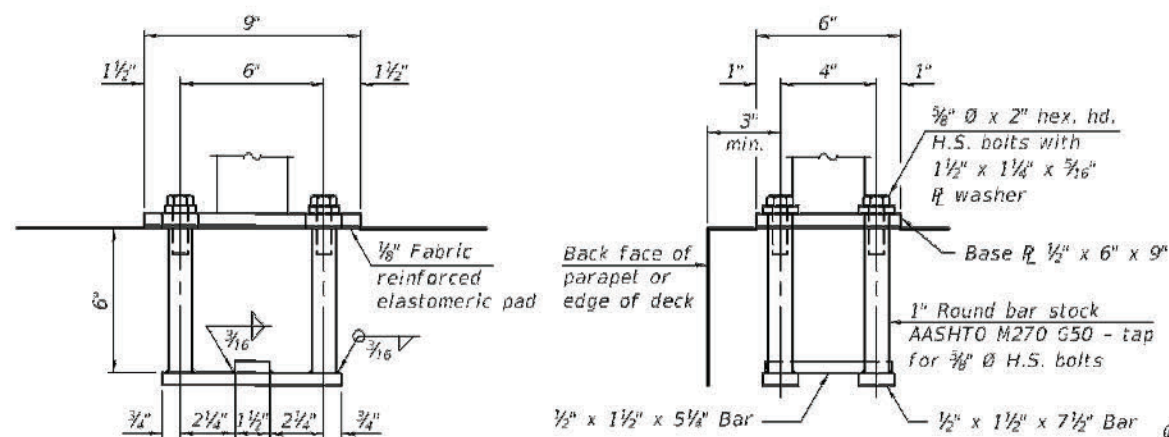
**DETAILS - SIDEWALK RAILING  
 CRAB ORCHARD GREENWAY  
 WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale N.T.S. Job No. 21157 Sheet No. 81 of 156

P:\21157 - CRAB ORCHARD GREENWAY\Drawings - Plans\21157 - 09 - DETAILS - RETAINING WALL, BIKE GATE, & MISC. DETAILS.dwg 4-24-23 01:14:03 PM mikrumrey

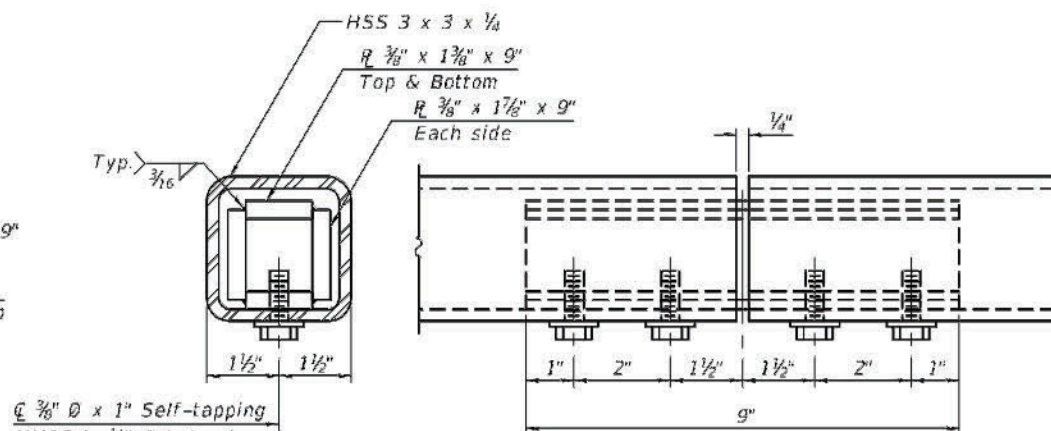
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	82	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



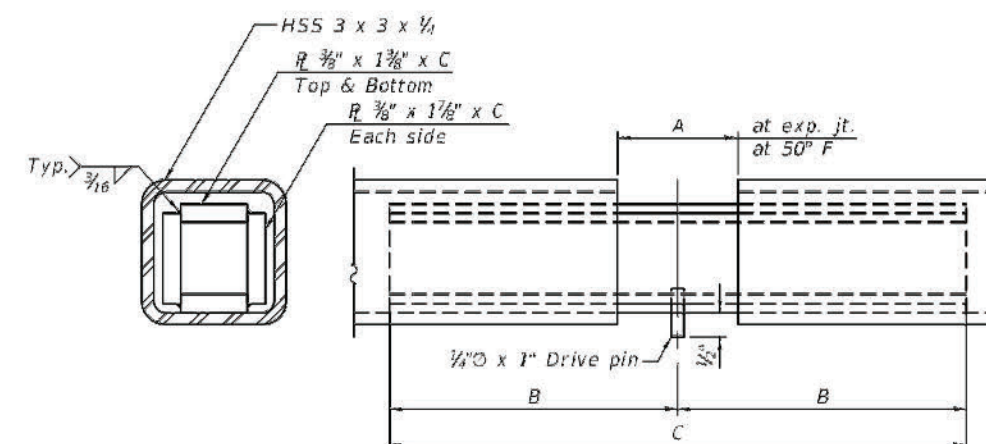
**ANCHORAGE ASSEMBLY**

The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8" fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

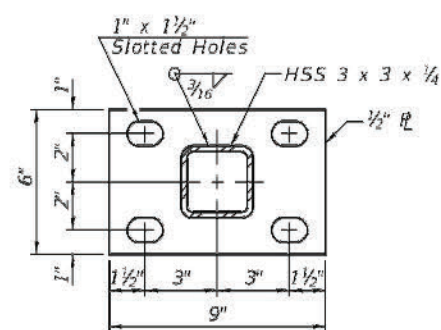


**MATERIAL SPLICE**

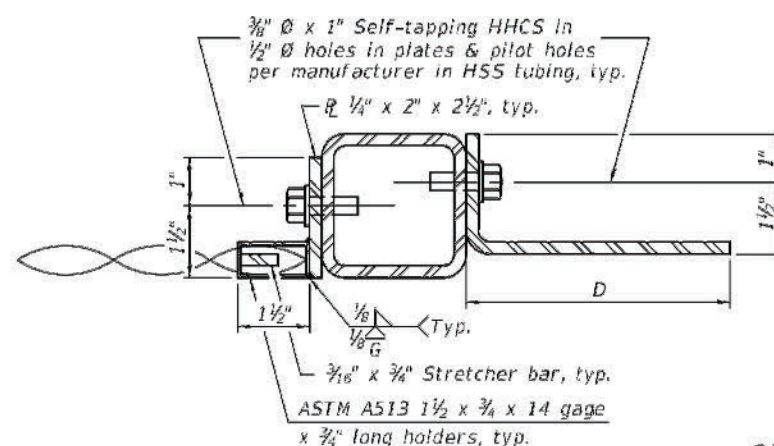
3/8" x 1" Self-tapping HHCS in 1/2" holes in HSS tubing and pilot holes per manufacturer in plates



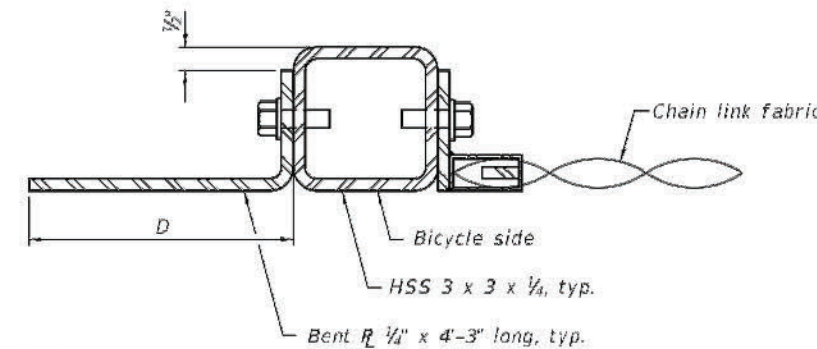
**EXPANSION SPLICE**



**SECTION B-B**



**SECTION A-A**



**TABLE OF DIMENSIONS**

Location	T	A	B	C	D	E
Over Strip Seal Jt.	≤4"	2 1/2"	1'-2"	2'-4"	7 1/4"	7"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	1'-7 1/4"	3'-3 1/2"		
Over Finger or Modular Jt.	≤15"	8 1/4"	2'-1 1/4"	4'-2 1/2"		

T = ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	26'
Parapet Railing	Foot	—

**Notes:**  
 Place reinforcement bars to miss anchor rod locations. CVN testing is not required for the HSS tubing used in the Bicycle Railing.  
 All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.  
 All HSS tubing used for the Parapet Railing shall be ASTM A500 grade C.  
 All base plates used for the Parapet Railing shall be AASHTO M270 grade 50.  
 All heavy hex nuts shall be according to ASTM A 563 grade DH. All fully threaded anchor rods shall be ASTM F1554 grade 105. The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.  
 Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.  
 When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.  
 See sheet \_ of \_ for dimensions of concrete openings at expansion joints.

R-29 9-1-2022

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS

DATE	NO.

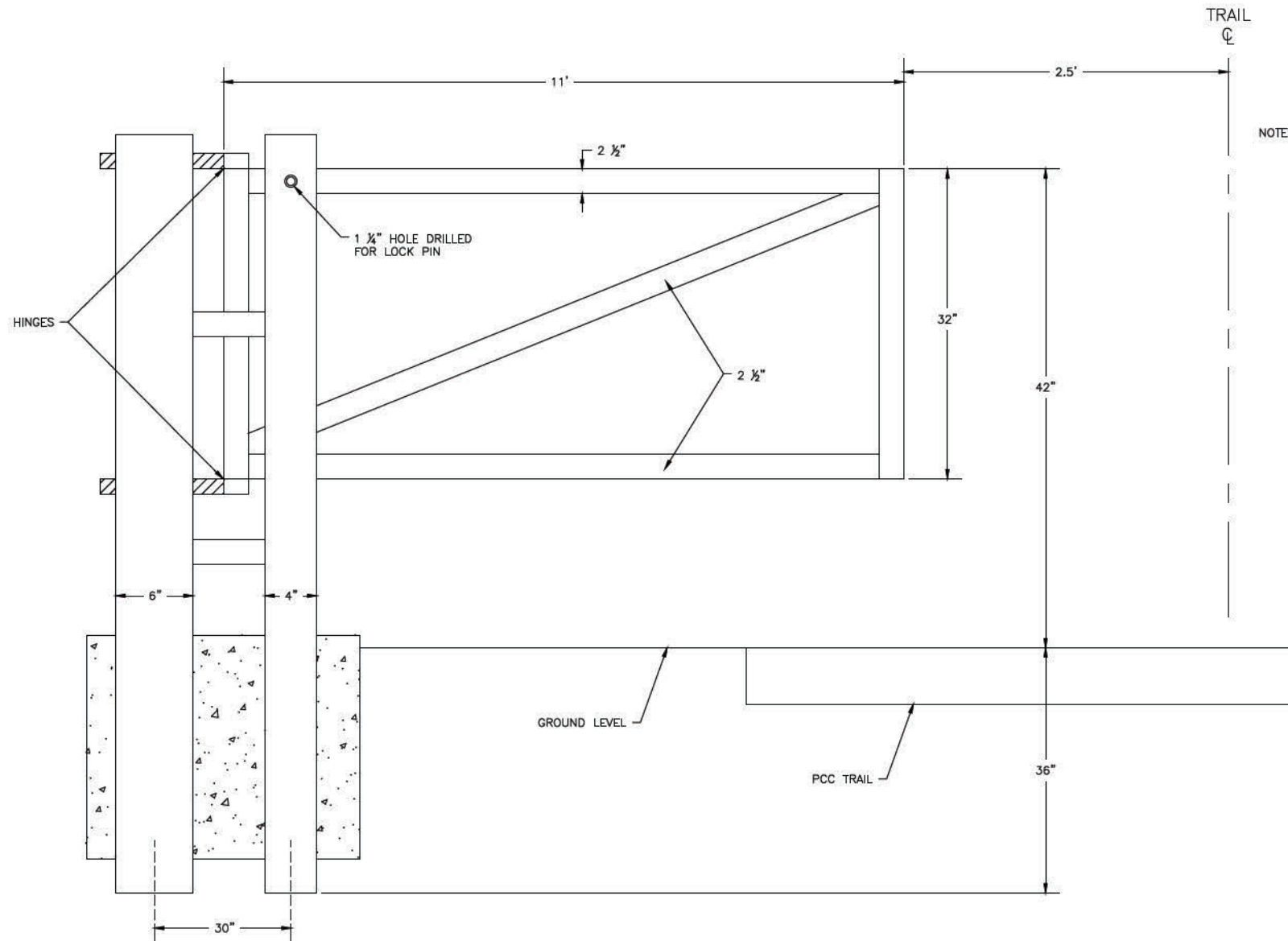
© ALL RIGHTS RESERVED  
**CLARIDA & ZIEGLER ENGINEERING CO.**  
 410 North Court St, P.O. Box 937  
 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**DETAILS - SIDEWALK RAILING**  
**CRAB ORCHARD GREENWAY**  
**WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale N.T.S. Job No. 21157 Sheet No. 82 of 156

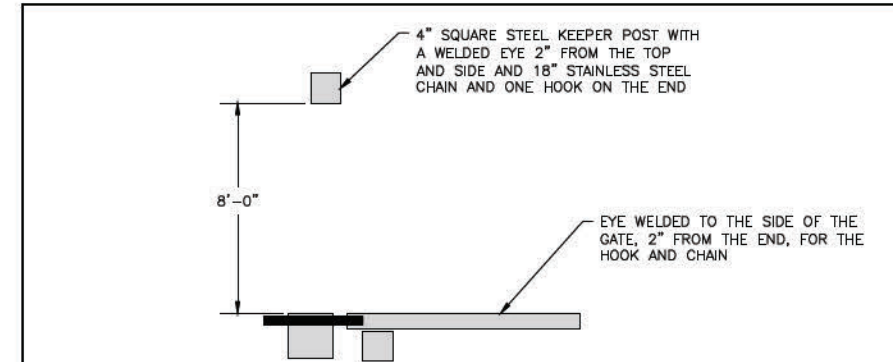
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	83	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

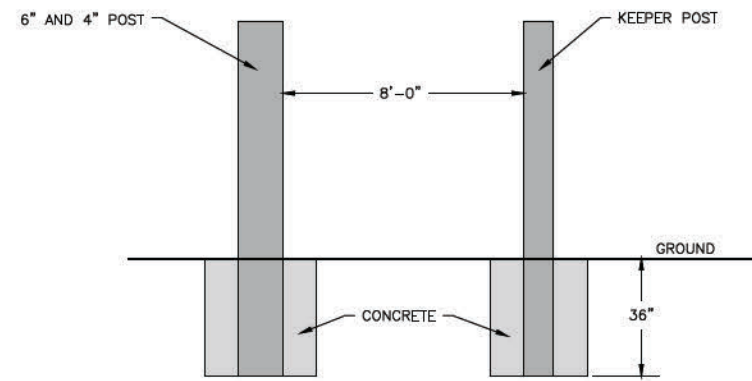


**FRONT VIEW DETAIL (LT & RT GATE)**

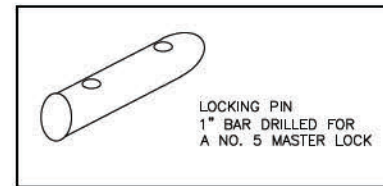
NOTES: INSTALL WITH 5' OPENING BETWEEN LEFT AND RIGHT GATE  
GATE SYMMETRICAL ABOUT TRAIL CENTERLINE



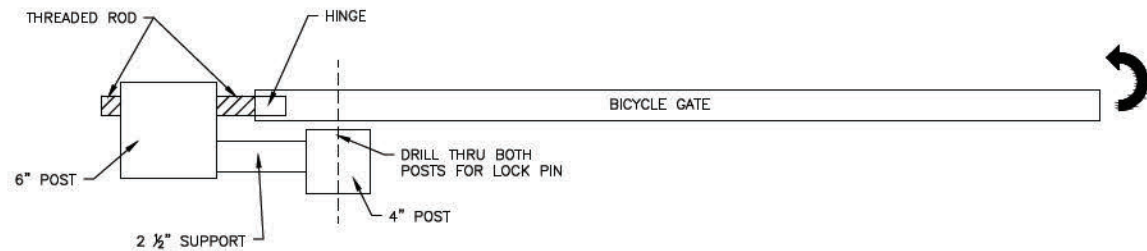
**TOP VIEW DETAIL**



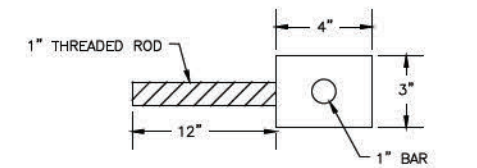
**SIDE VIEW DETAIL**



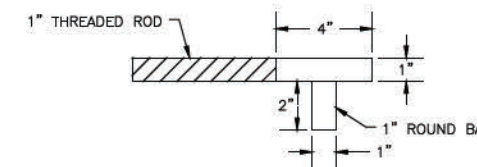
LOCKING PIN  
1" BAR DRILLED FOR  
A NO. 5 MASTER LOCK



**TOP VIEW DETAIL**



**TOP VIEW**

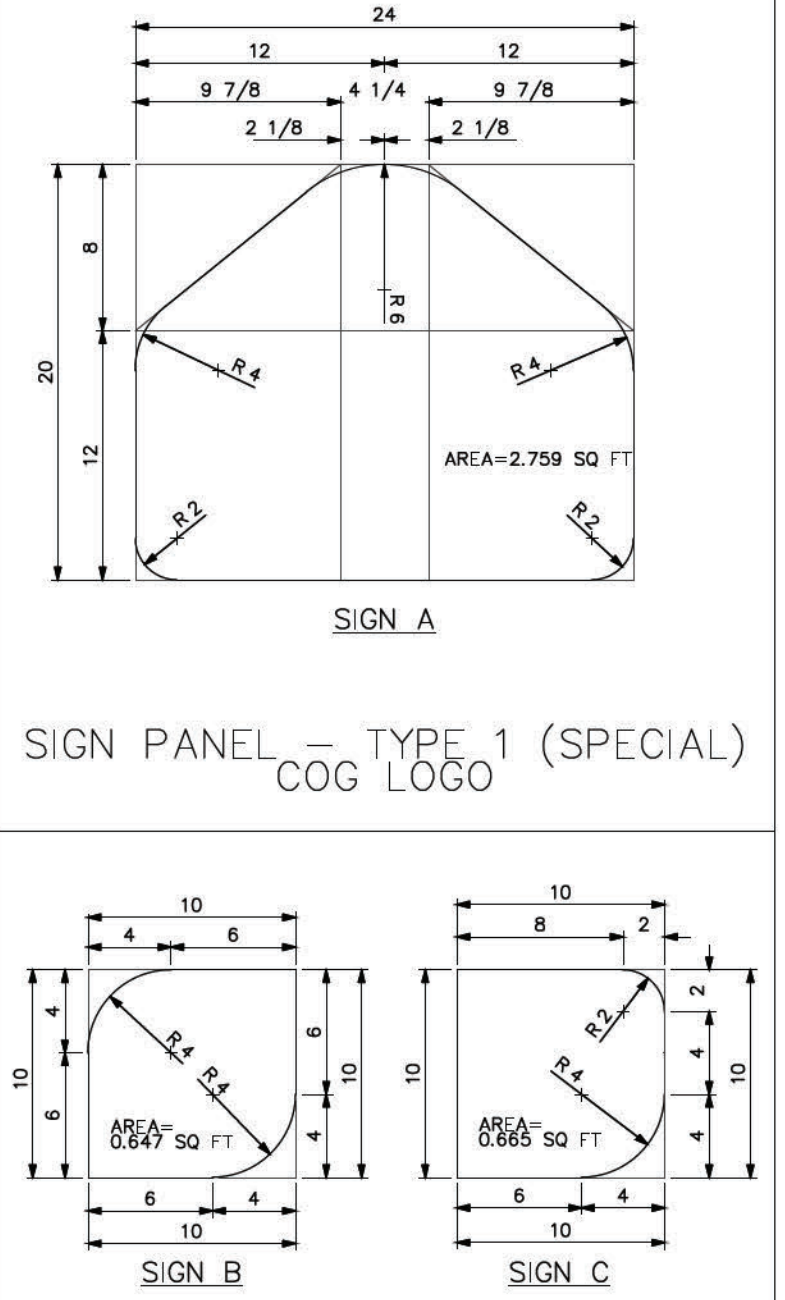
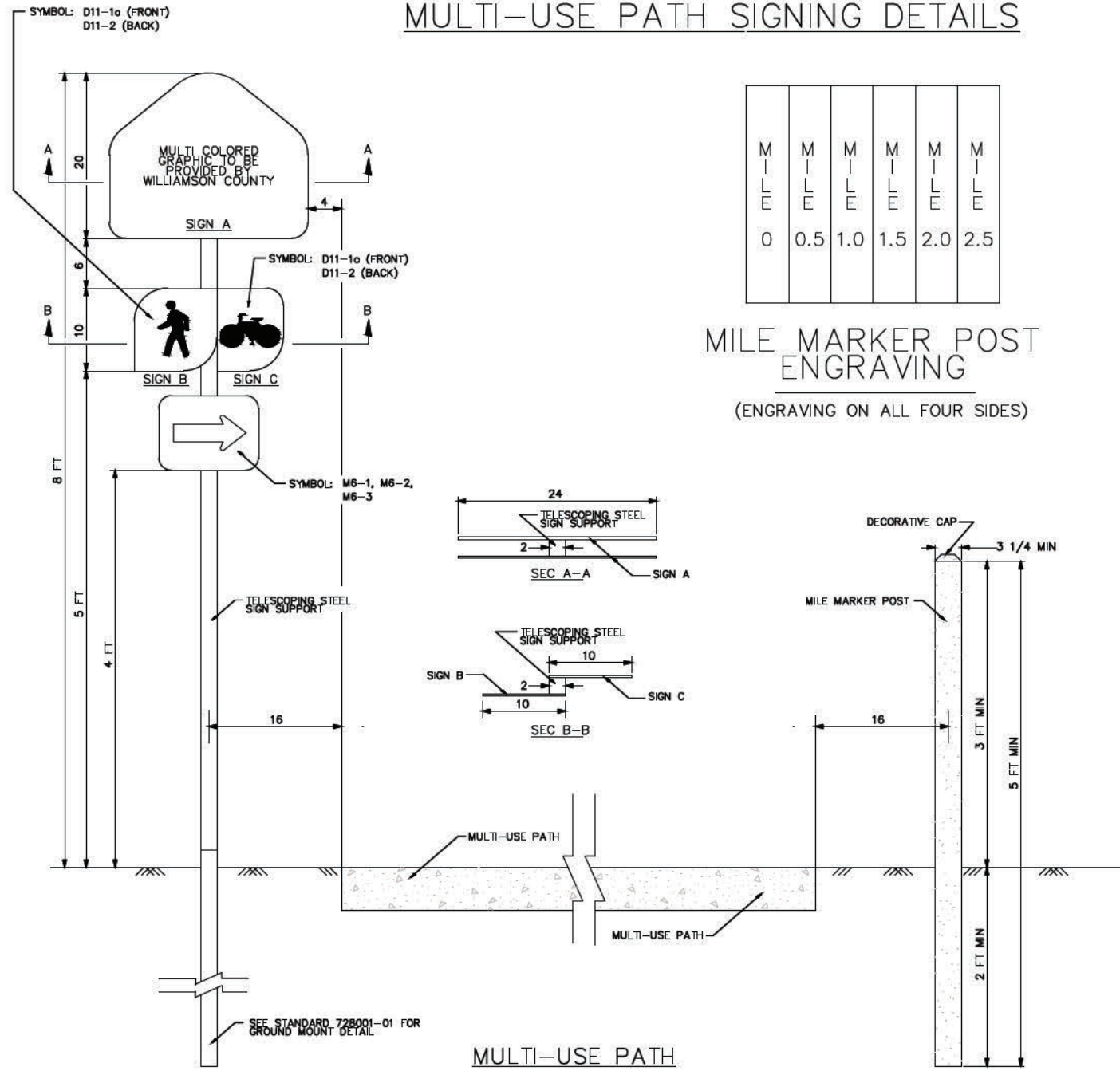


**SIDE VIEW**

**HINGE DETAIL**

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515		ALL RIGHTS RESERVED	
REVISIONS		CLARIDA & ZIEGLER ENGINEERING CO.	
DATE	NO.	410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
DETAIL - GATE CRAB ORCHARD GREENWAY WILLIAMSON COUNTY, ILLINOIS		Date FEB. 2023	DR. By CWB
Scale N.T.S.	Job No. 21157	Sheet No. 83	of 156

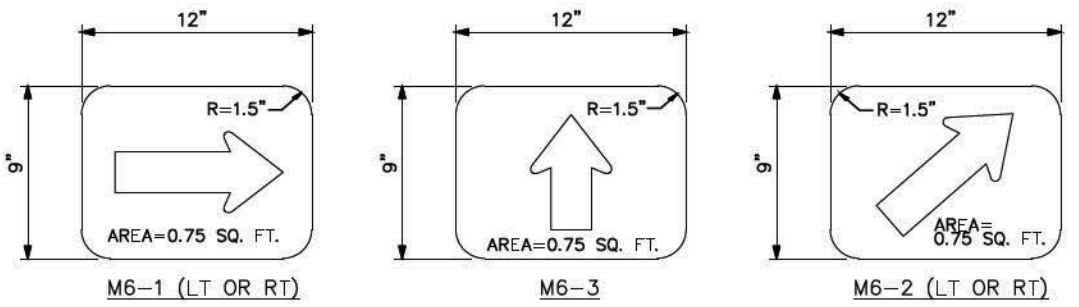
# MULTI-USE PATH SIGNING DETAILS



SIGN PANEL — TYPE 1 (SPECIAL)  
COG LOGO

SIGN PANEL — TYPE 1 (SPECIAL)  
DOUBLE SIDED

SIGN PANEL — TYPE 1



NOTES:  
ALL DIMENSIONS ARE IN INCHES UNLESS SHOWN OTHERWISE

REVISIONS	
DATE	NO.

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

ALL RIGHTS RESERVED

**CLARIDA & ZIEGLER  
ENGINEERING CO.**  
410 North Court St., P.O. Box 937  
Marion, Illinois 62959  
Phone - (618)993-6411, Fax - (618)993-6750

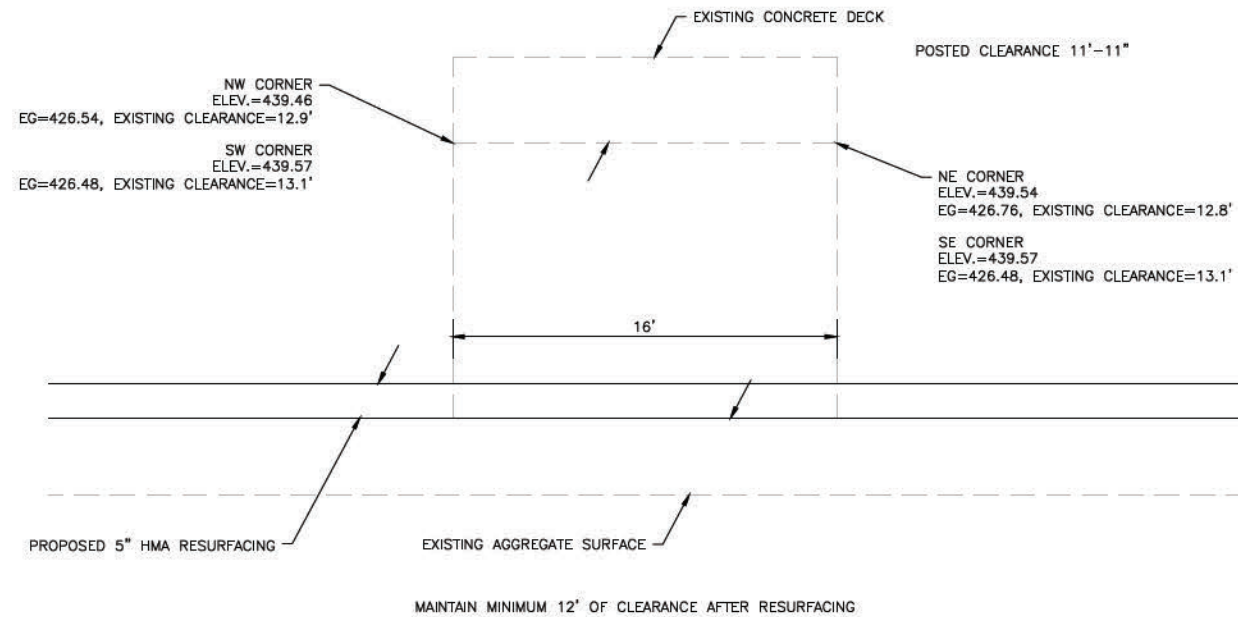
**DETAILS - SIGNAGE  
CRAB ORCHARD GREENWAY  
WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
Scale N.T.S. Job No. 21157 Sheet No. 84 of 156

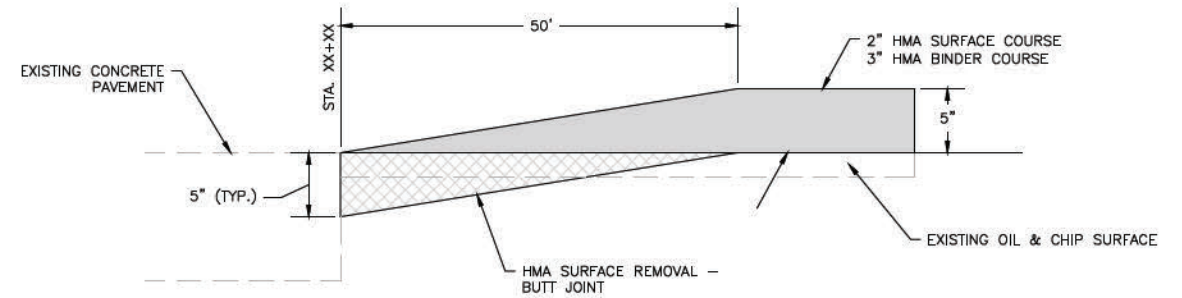
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	85	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

## RESURFACING AT BNRR STRUCTURE

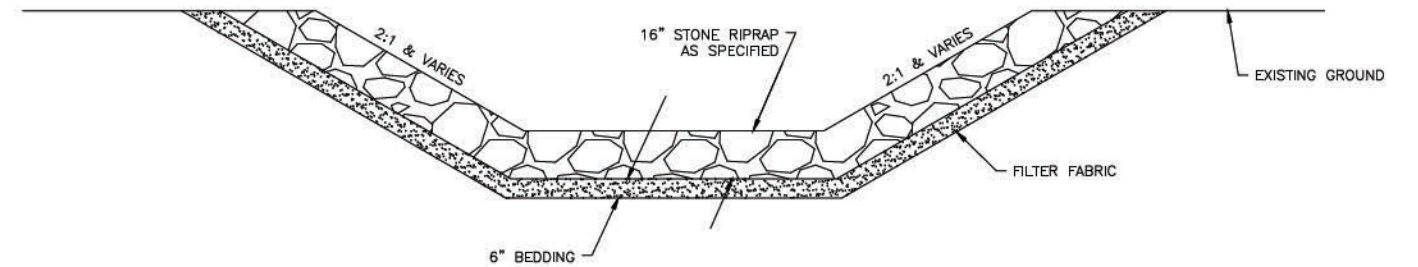


## BUTT JOINT DETAIL WESTMINSTER DRIVE/TIMMONS STA. ROAD



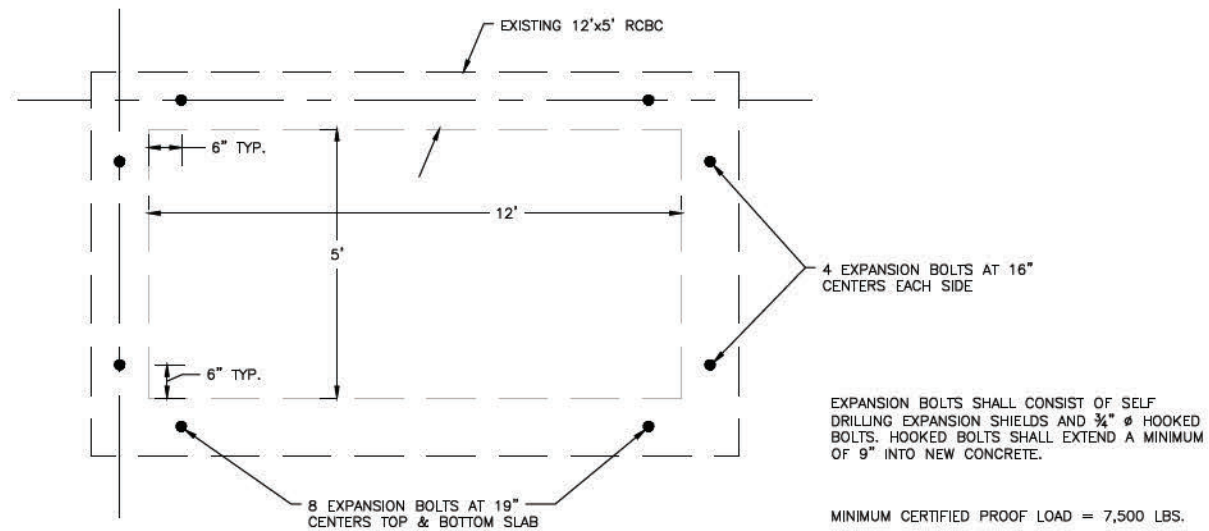
## RIPRAP DETAIL

TO BE USED: CAMPGROUND CREEK - CLASS A-5  
EAST FORK CAMPGROUND CREEK - CLASS A-4  
WESTERNAIRE CREEK - CLASS A-4  
WESTERNAIRE CREEK TRIBUTARY - CLASS A-4  
SEE PLAN SHEETS FOR LOCATION DETAILS



NOTES: RIPRAP, BEDDING MATERIAL & FILTER FABRIC SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 281 OF THE IDOT STANDARD SPECIFICATIONS

## EXPANSION BOLTS FOR END SECTION CONNECTIONS 12'x5' BOX CULVERT AT WESTERNAIRE CREEK



EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/8"  $\phi$  HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.

MINIMUM CERTIFIED PROOF LOAD = 7,500 LBS.

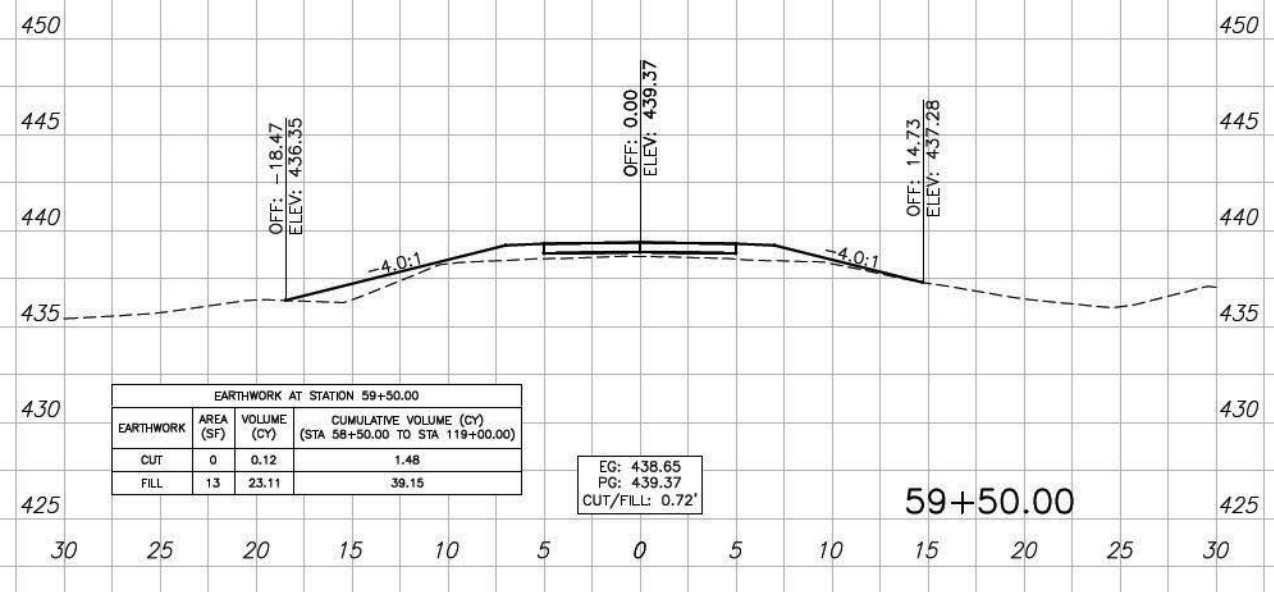
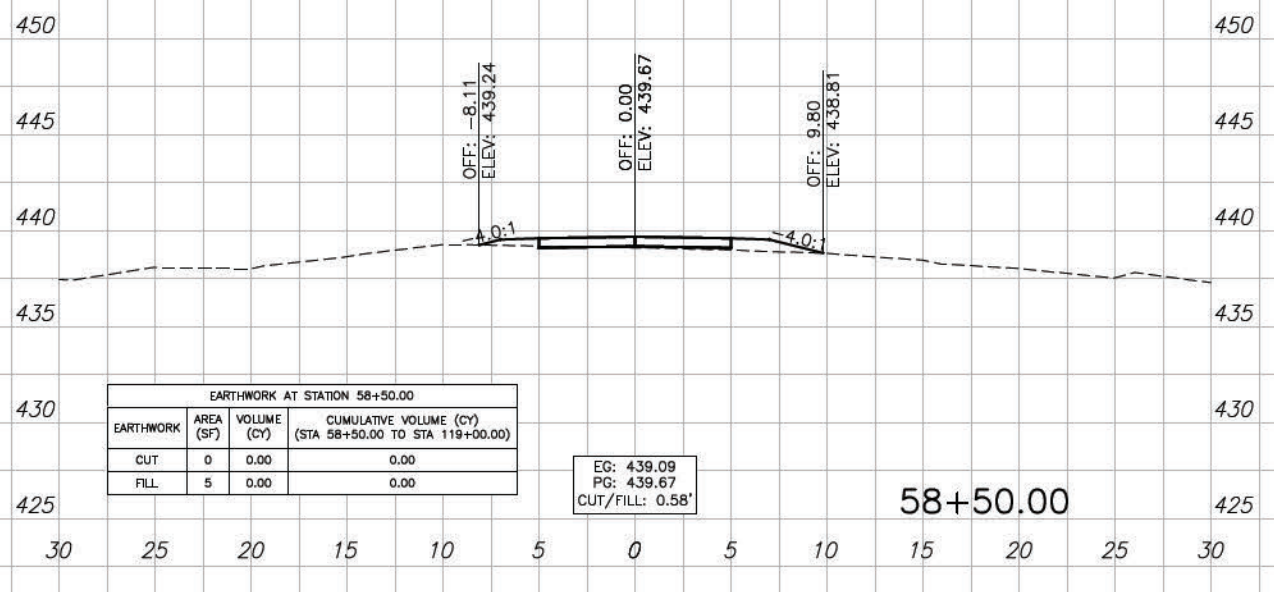
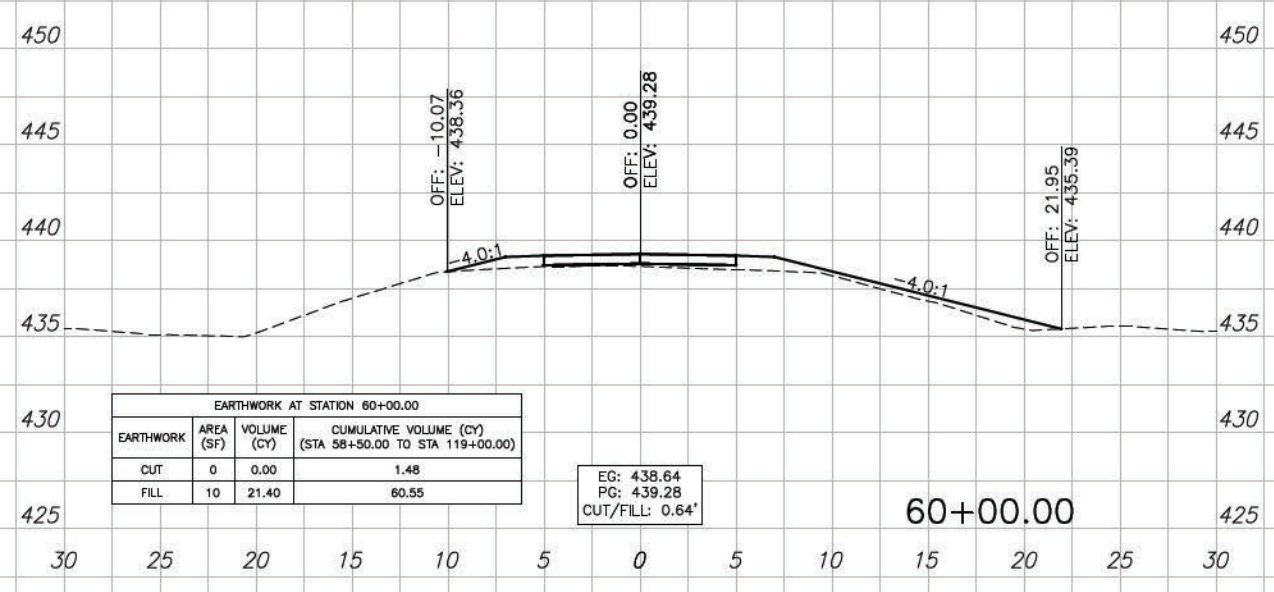
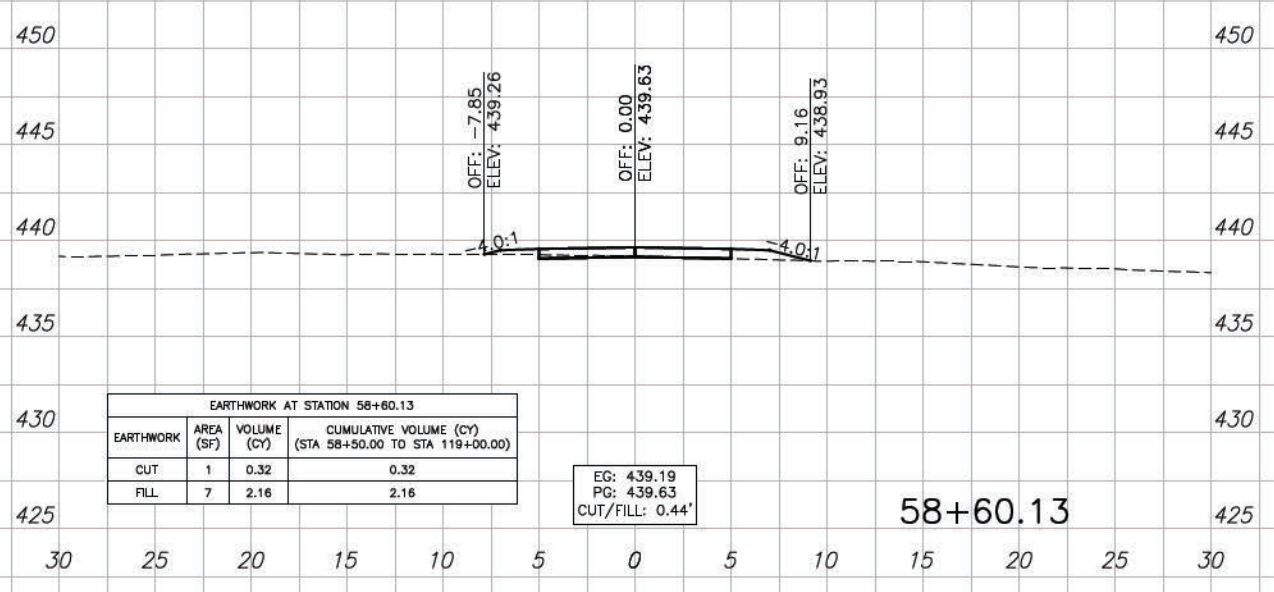
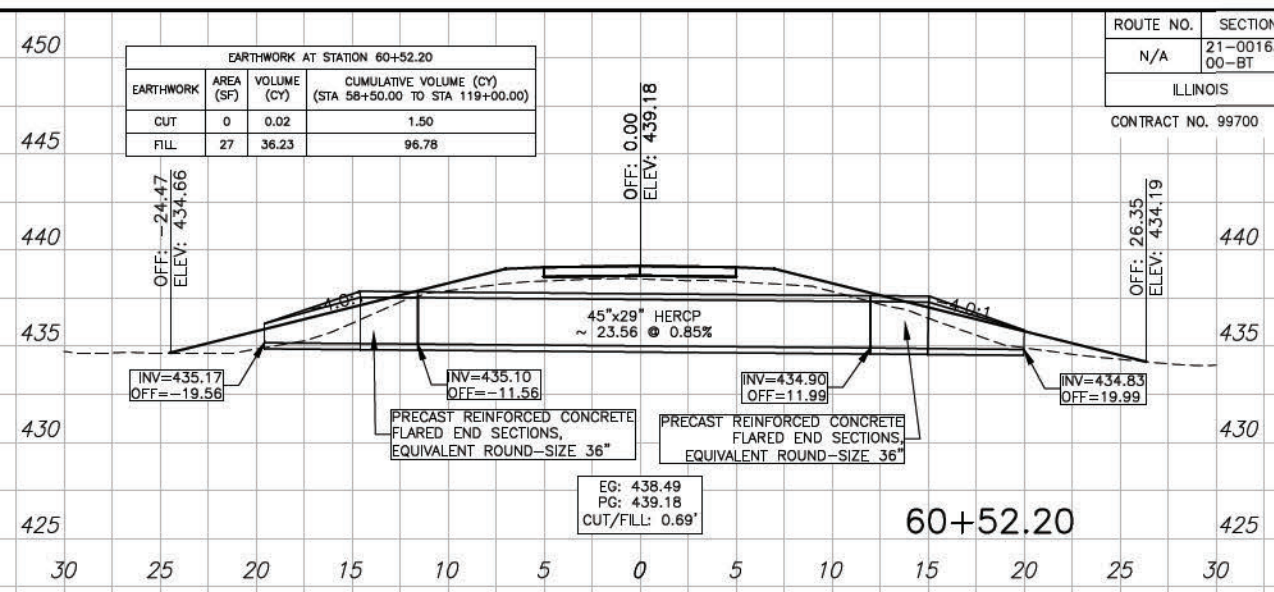
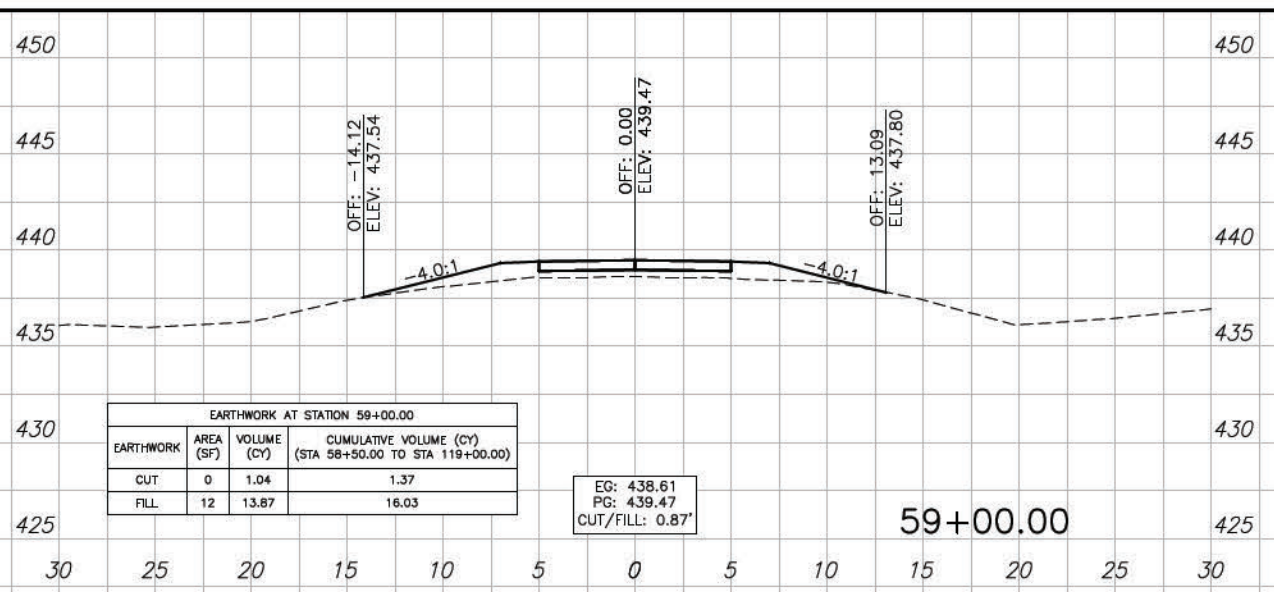
EXPANSION BOLTS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR - EXPANSION BOLTS, 3/8" INCH.

FOR ANCHOR BOLT REQUIREMENTS, SEE ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS.

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
REVISIONS	ALL RIGHTS RESERVED
DATE	NO.
<b>CLARIDA &amp; ZIEGLER ENGINEERING CO.</b> 410 North Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750	
<b>DETAILS - MISC. CRAB ORCHARD GREENWAY WILLIAMSON COUNTY, ILLINOIS</b>	
Date FEB. 2023	DR. By CWB CK'D By CWB
Scale N.T.S.	Job No. 21157 Sheet No. 85 of 156

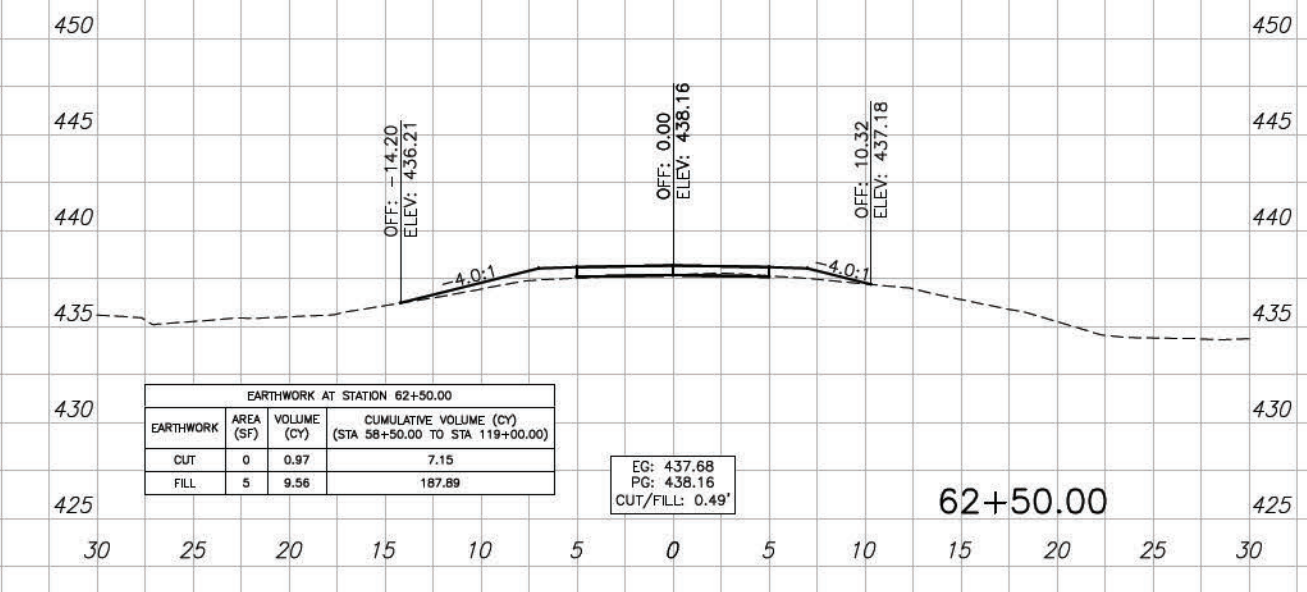
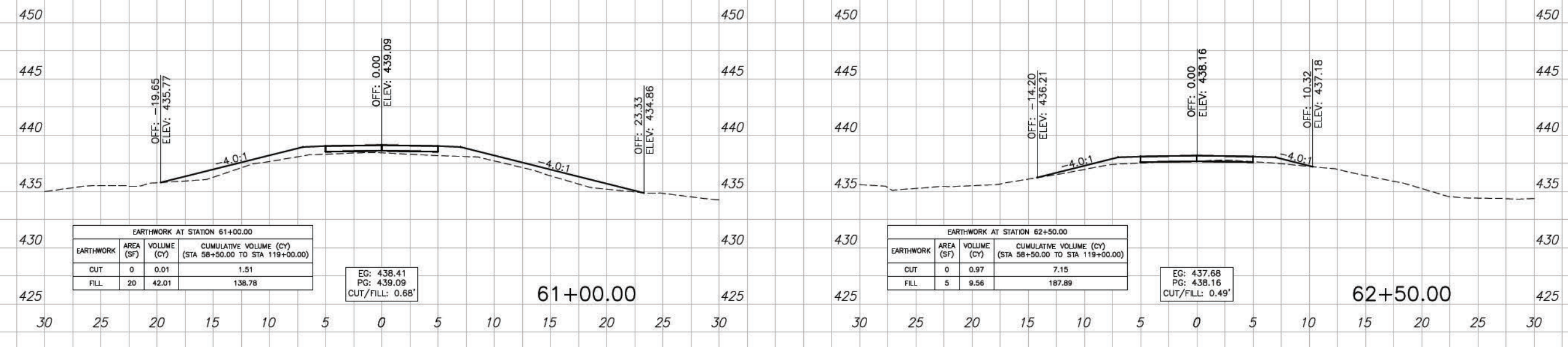
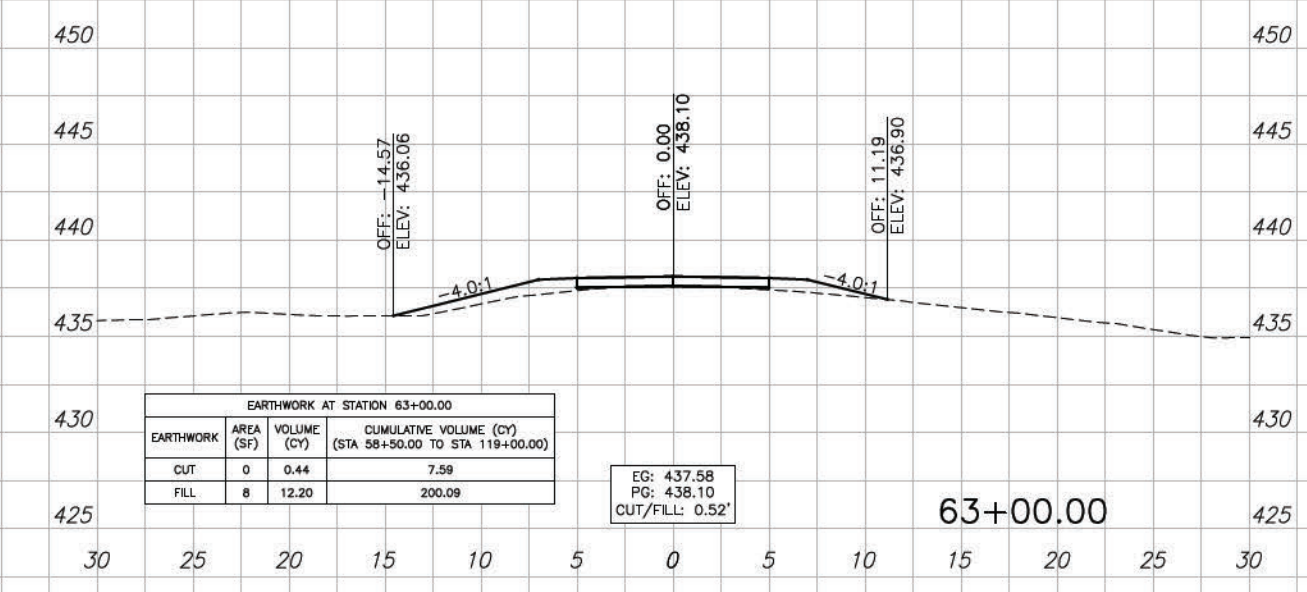
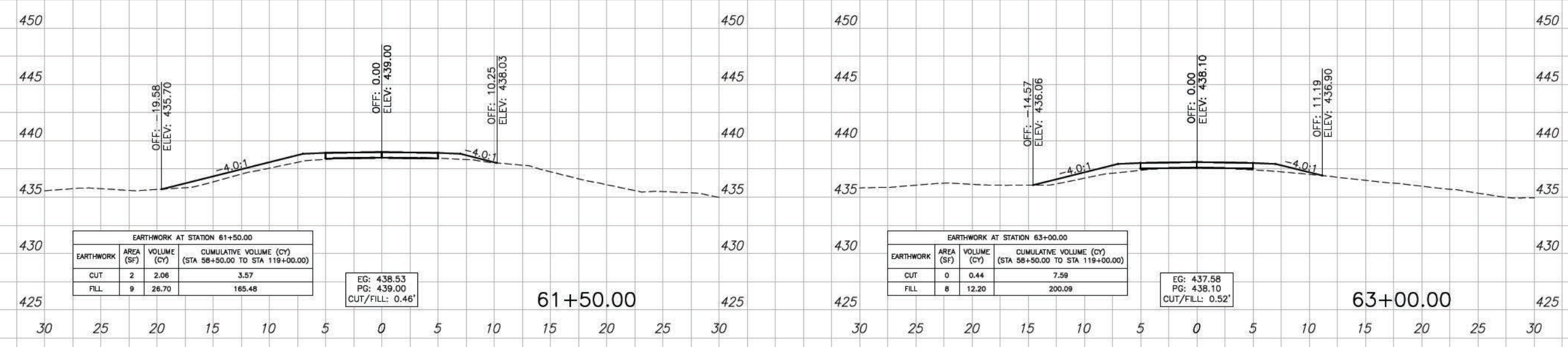
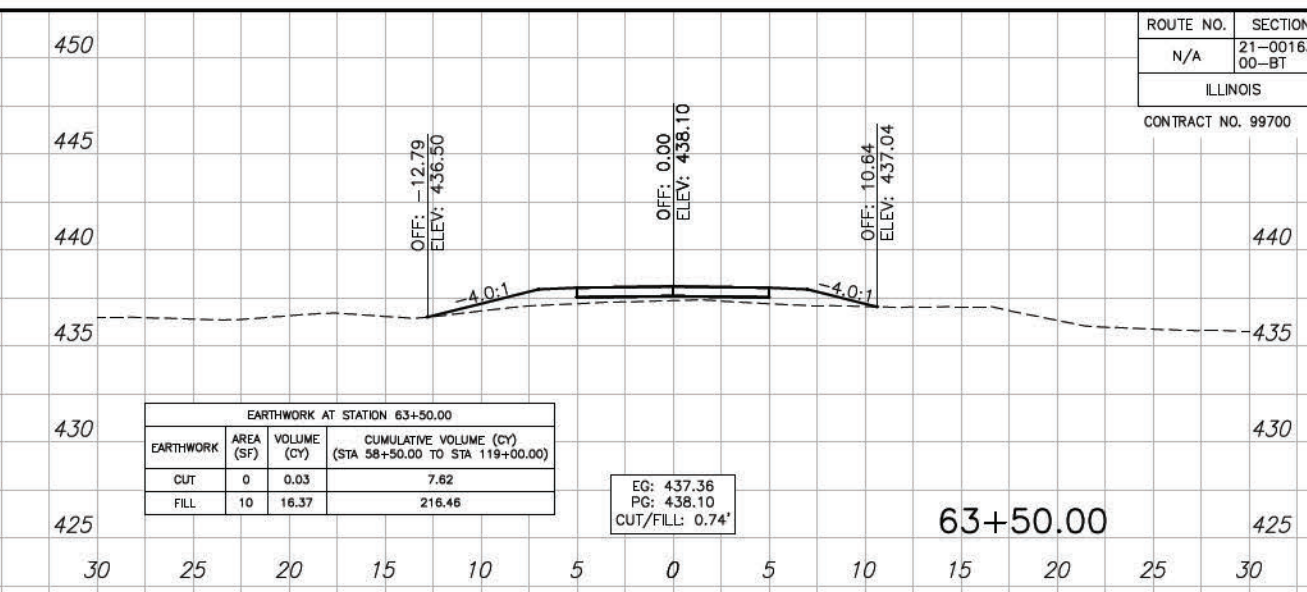
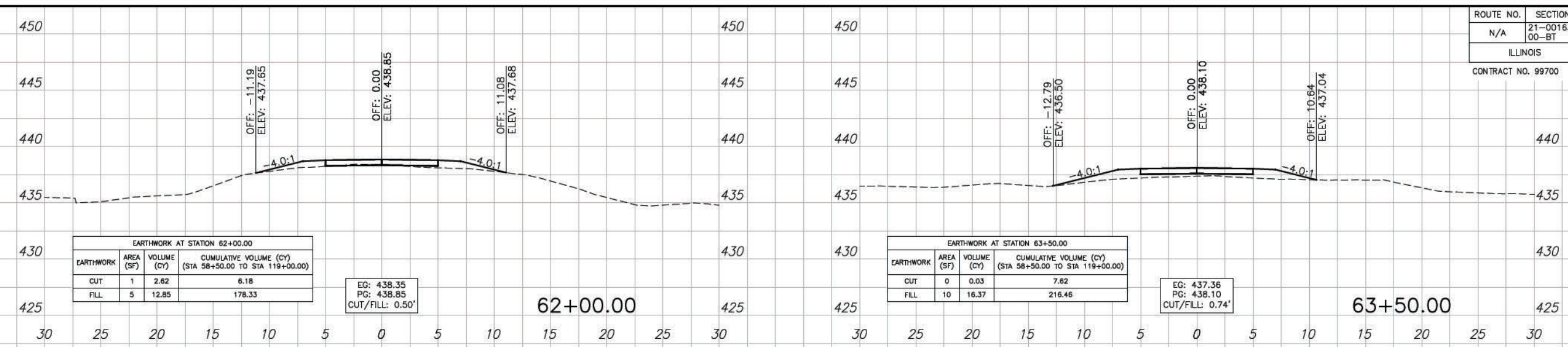
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	86	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



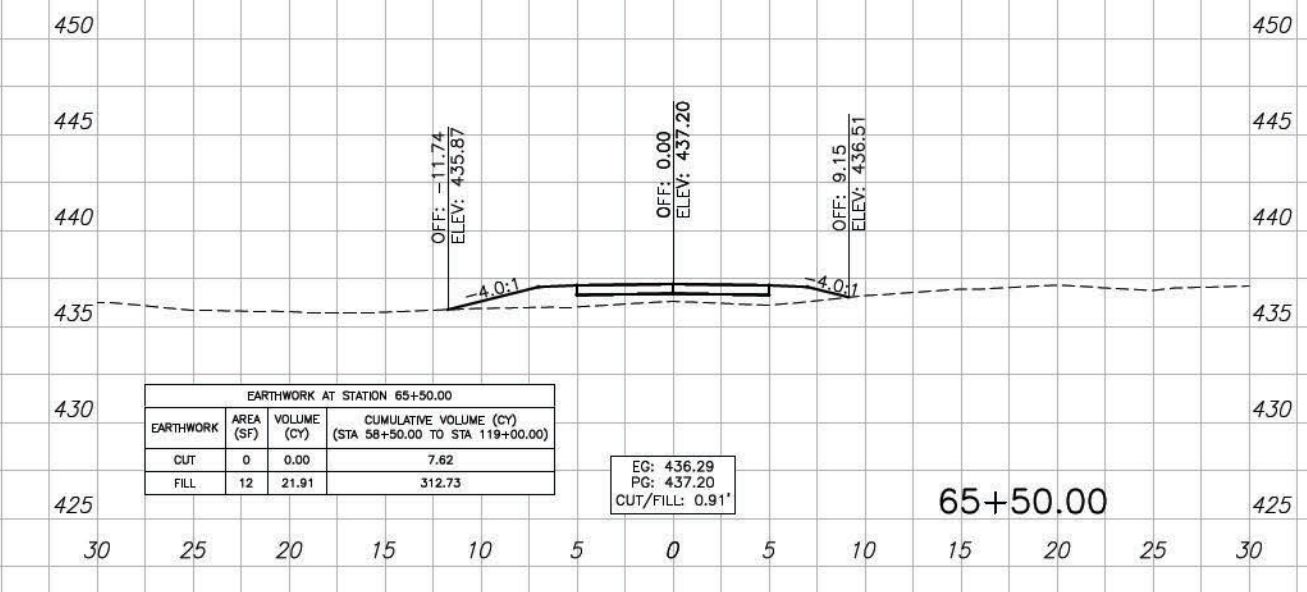
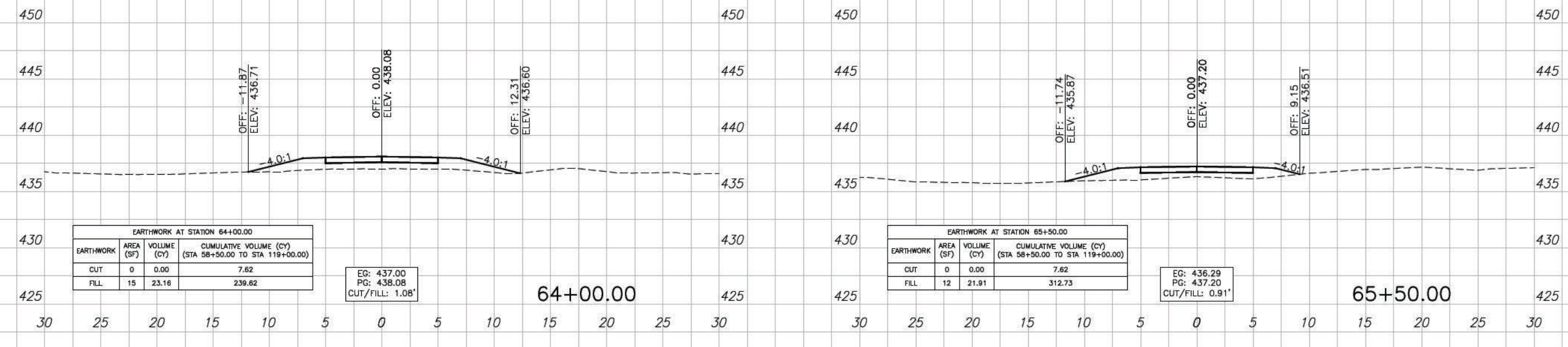
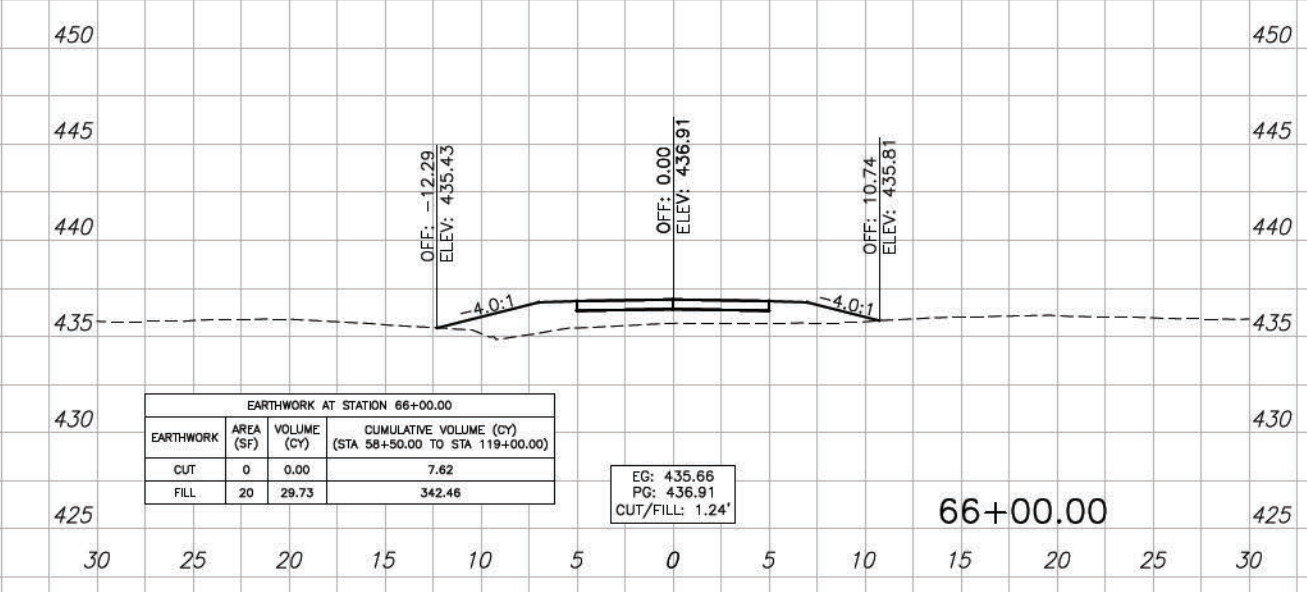
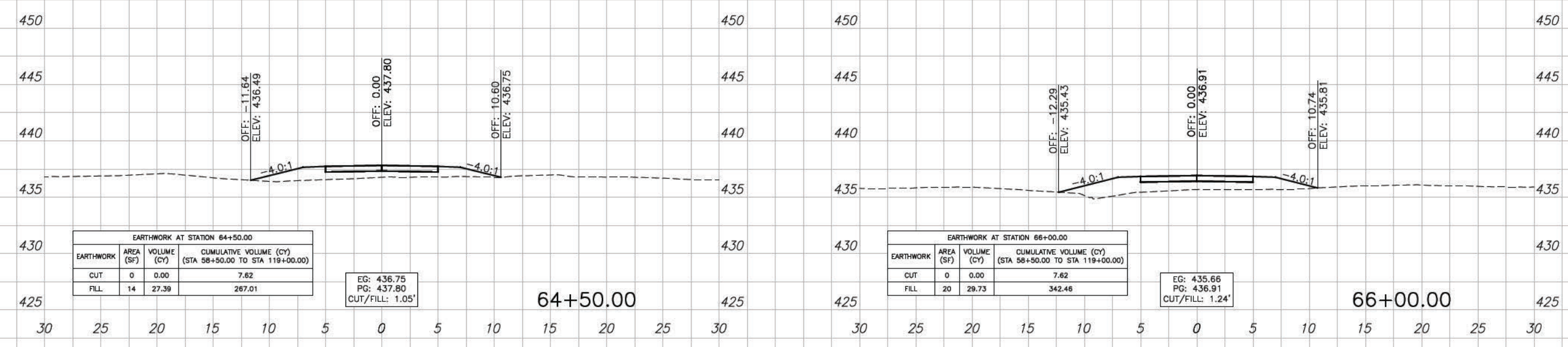
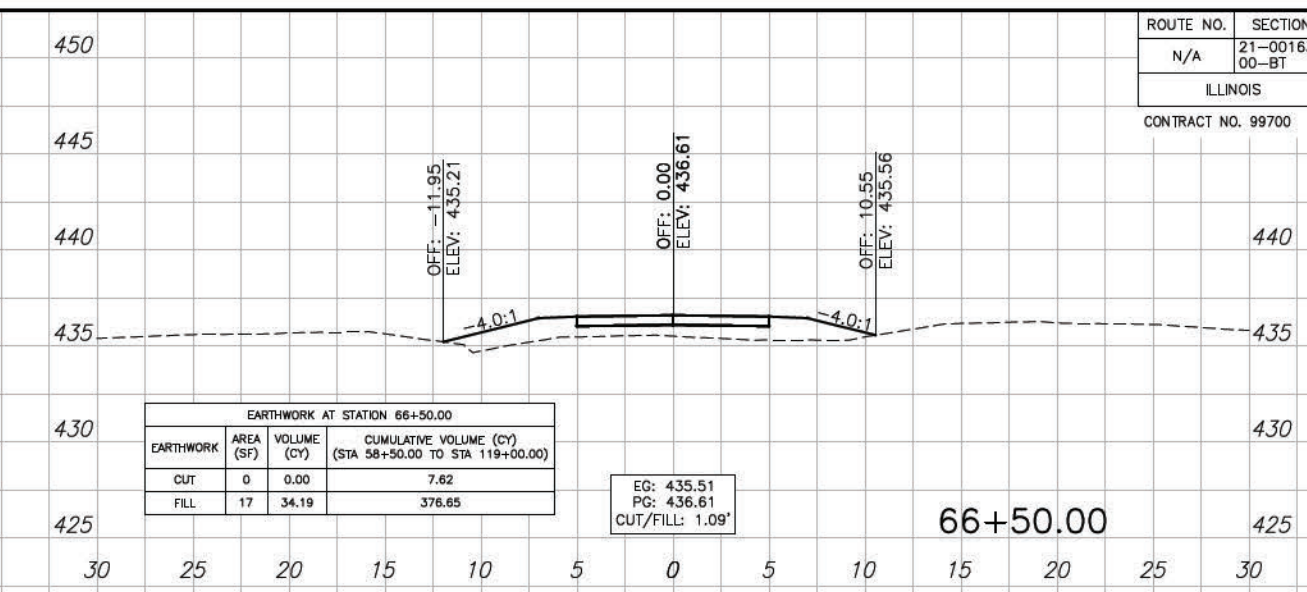
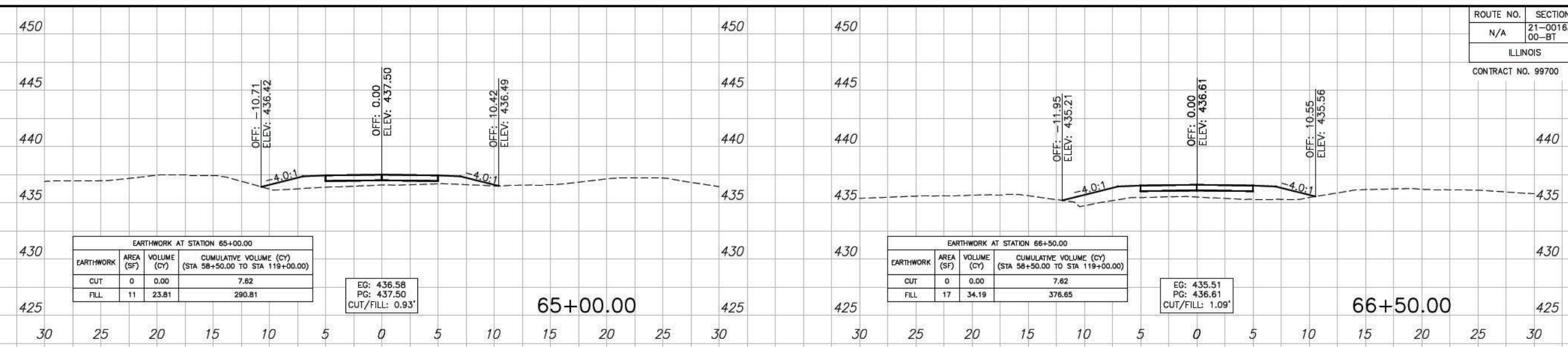
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	87	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	88	156
ILLINOIS		CRAB ORCHARD GREENWAY		

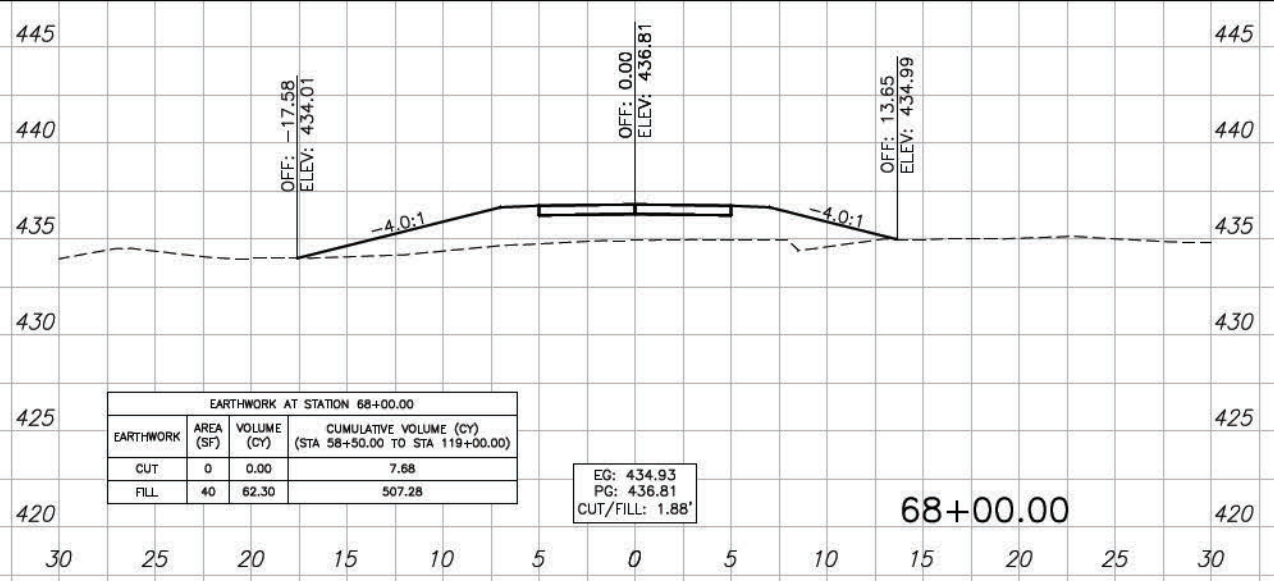
CONTRACT NO. 99700





ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	89	156
ILLINOIS		CRAB ORCHARD GREENWAY		

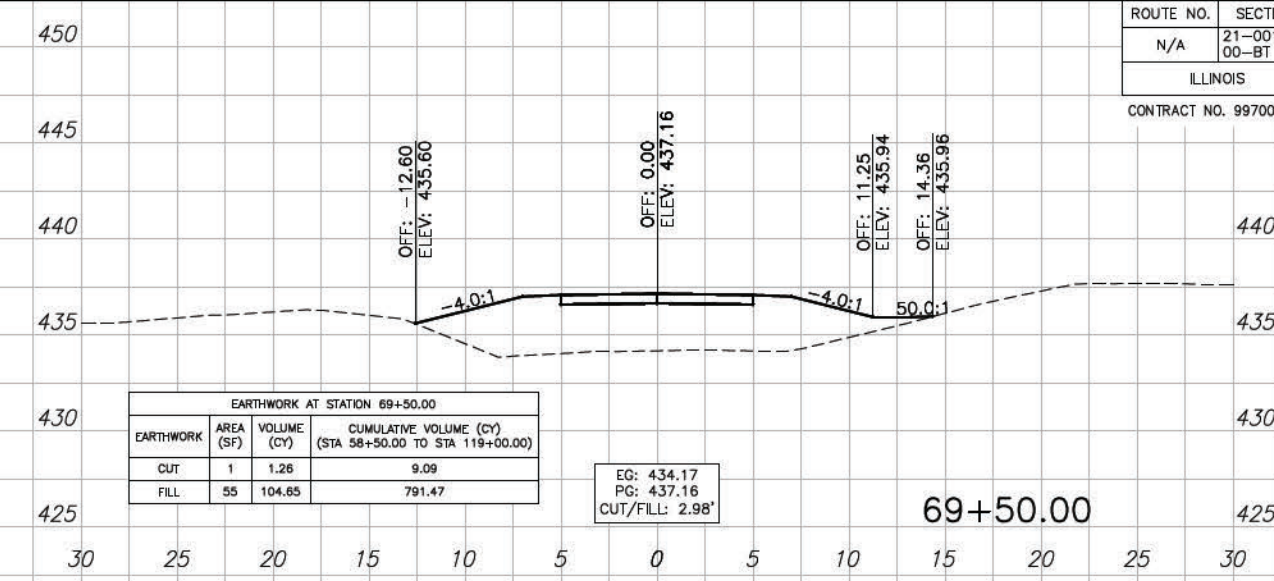
CONTRACT NO. 99700



EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	0	0.00	7.68
FILL	40	62.30	507.28

EG: 434.93  
PG: 436.81  
CUT/FILL: 1.88'

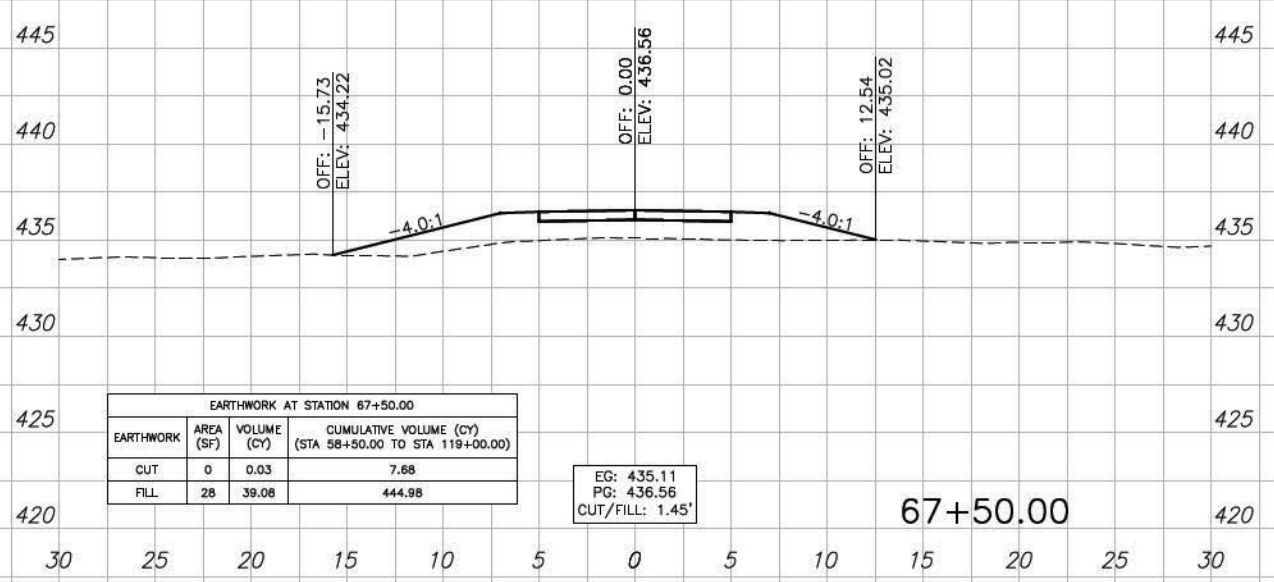
68+00.00



EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	1	1.26	9.09
FILL	55	104.65	791.47

EG: 434.17  
PG: 437.16  
CUT/FILL: 2.98'

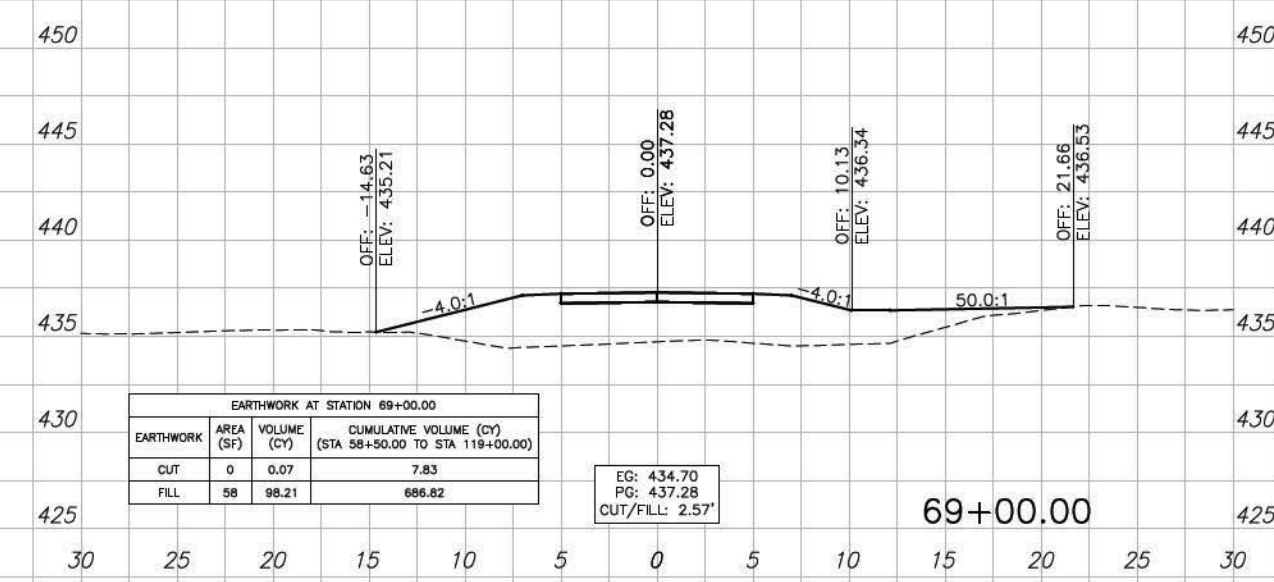
69+50.00



EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	0	0.03	7.68
FILL	28	39.08	444.98

EG: 435.11  
PG: 436.56  
CUT/FILL: 1.45'

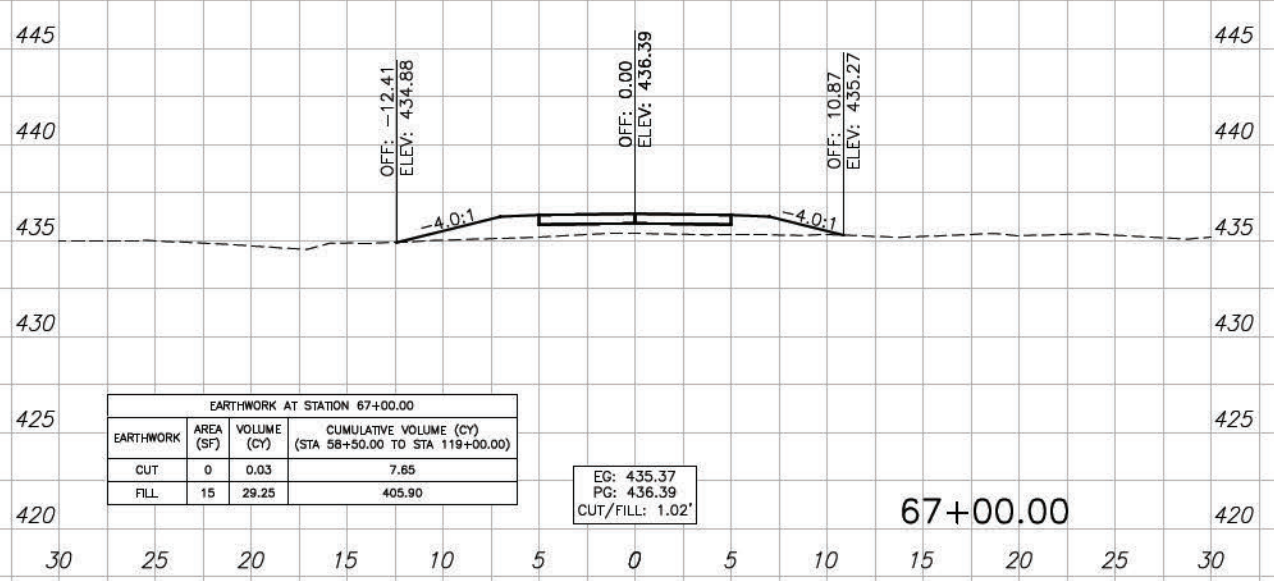
67+50.00



EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	0	0.07	7.83
FILL	58	98.21	686.62

EG: 434.70  
PG: 437.28  
CUT/FILL: 2.57'

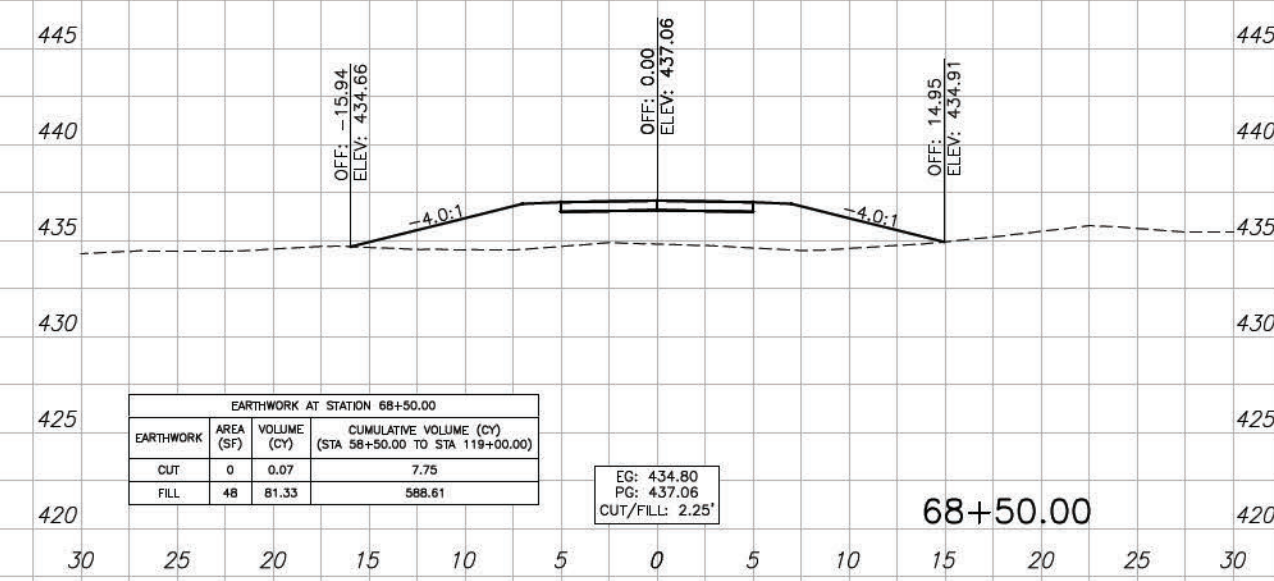
69+00.00



EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	0	0.03	7.65
FILL	15	29.25	405.90

EG: 435.37  
PG: 436.39  
CUT/FILL: 1.02'

67+00.00



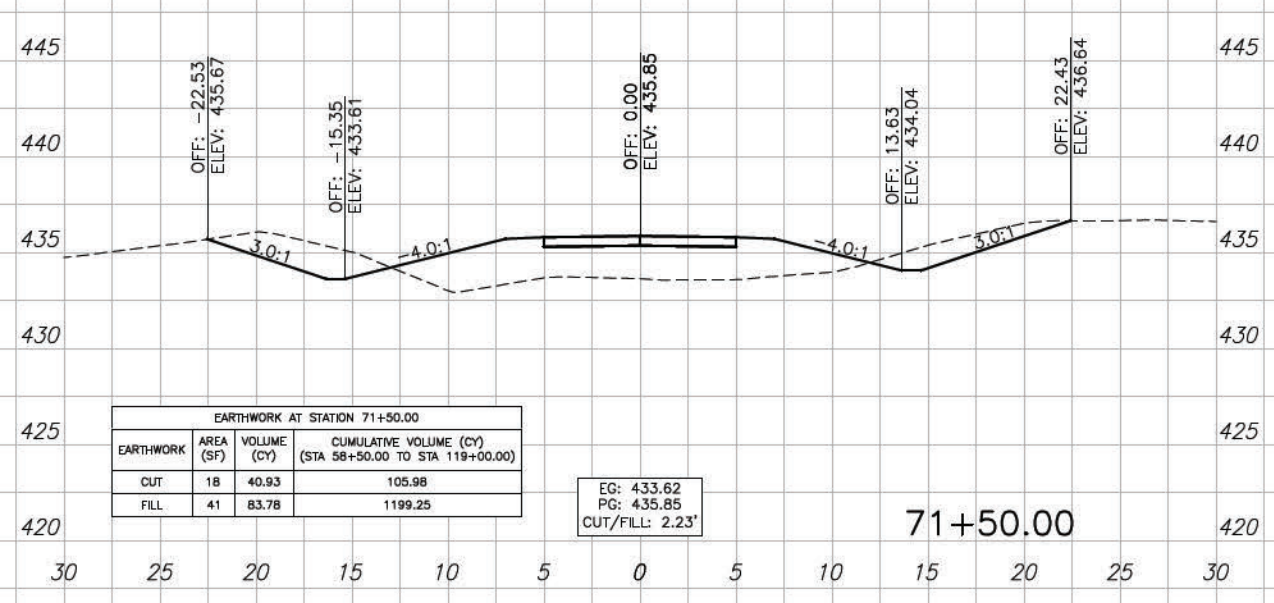
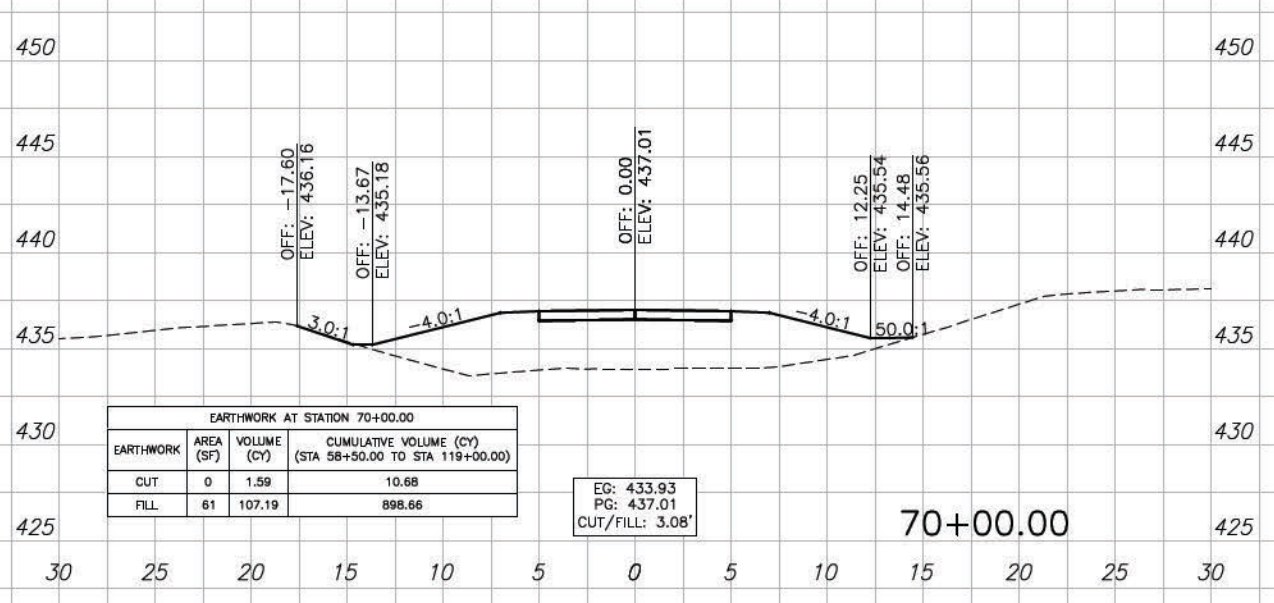
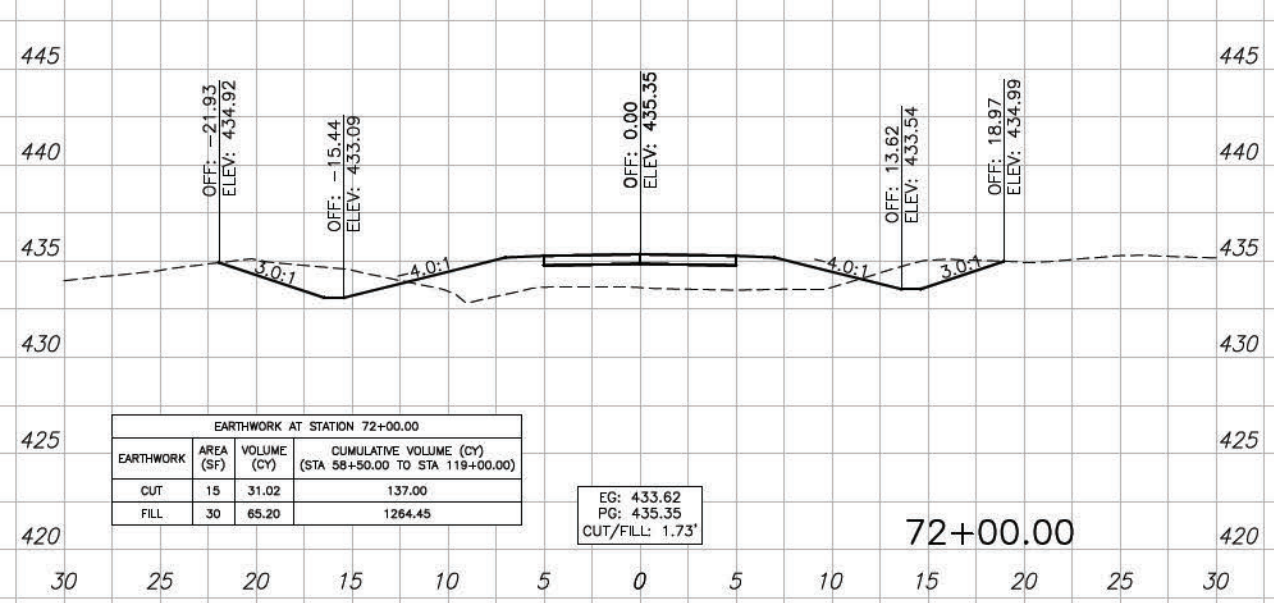
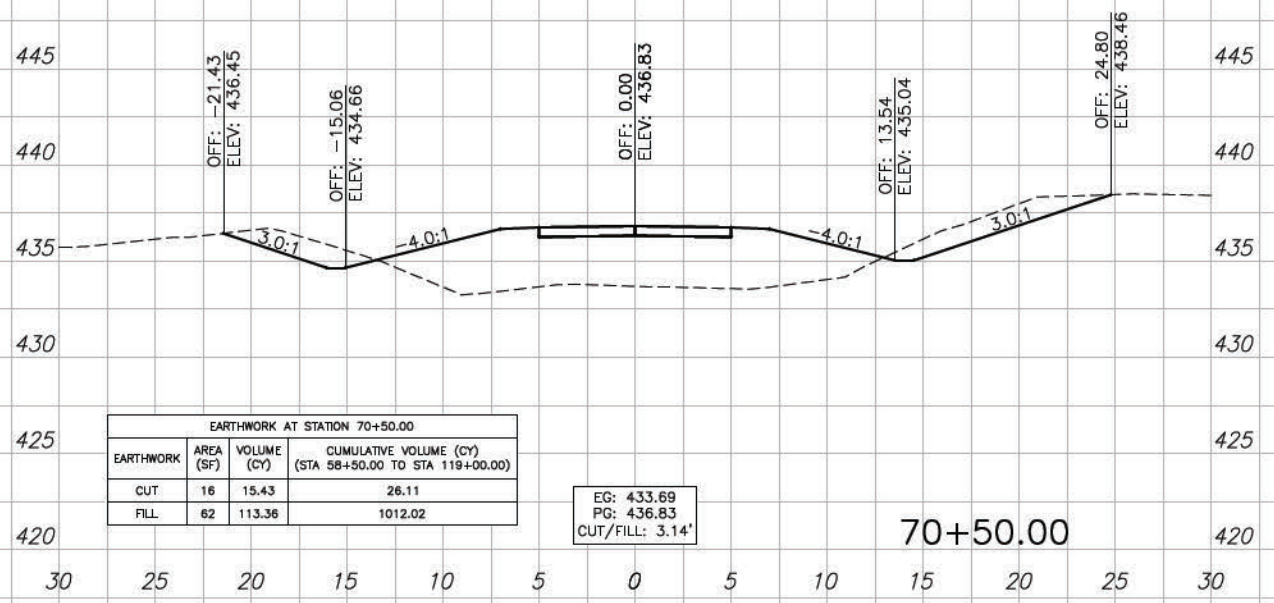
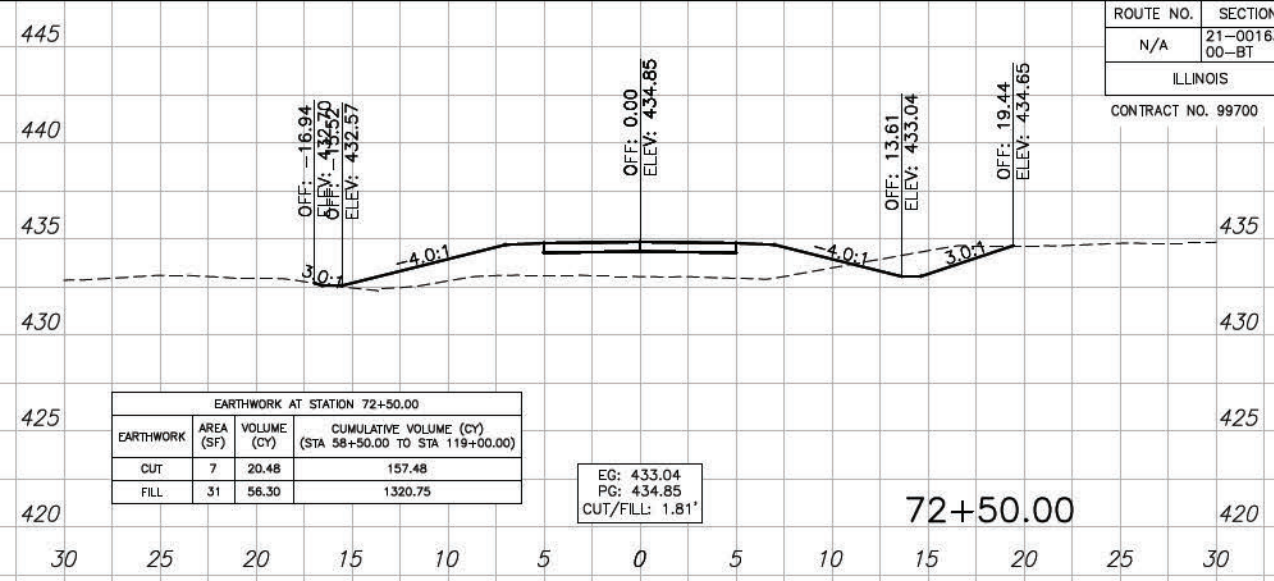
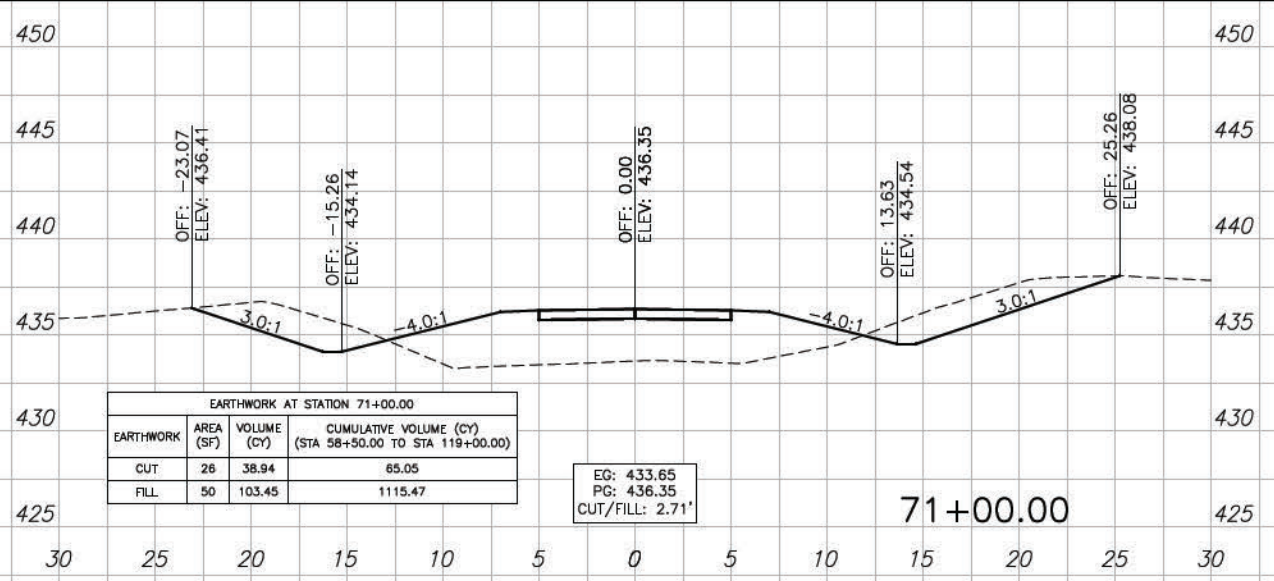
EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	0	0.07	7.75
FILL	48	81.33	588.61

EG: 434.80  
PG: 437.06  
CUT/FILL: 2.25'

68+50.00

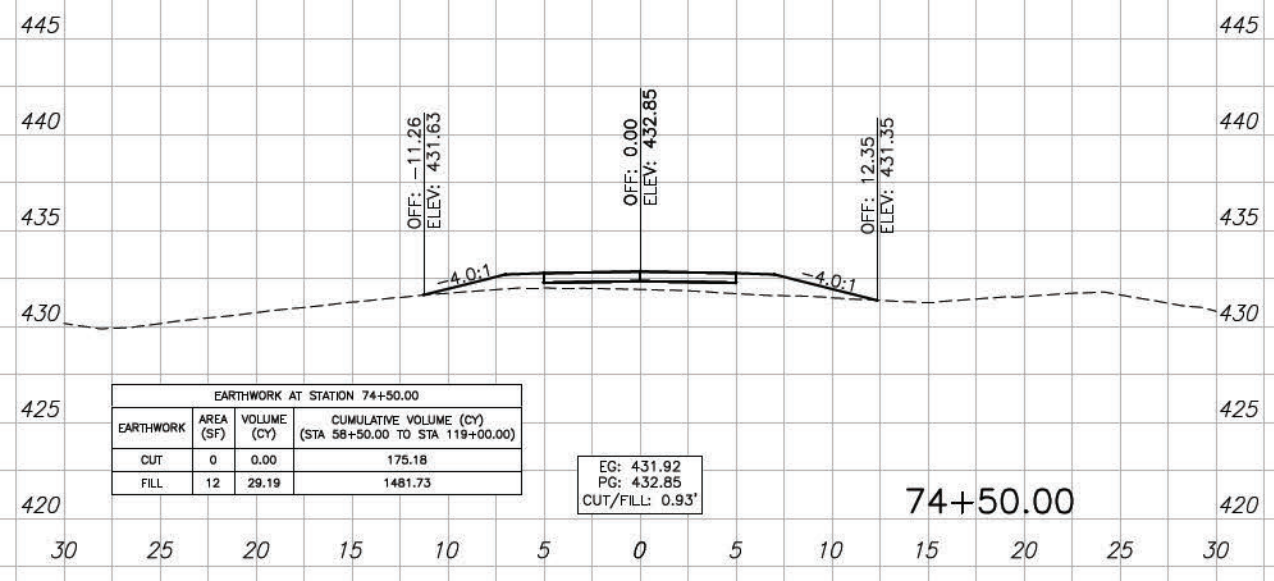
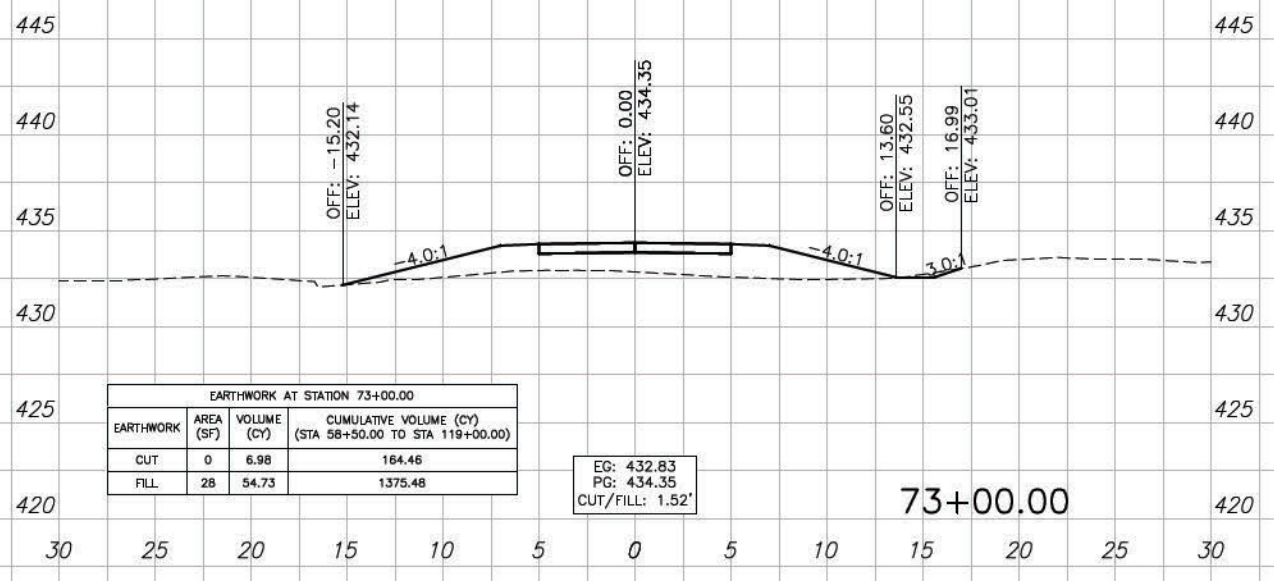
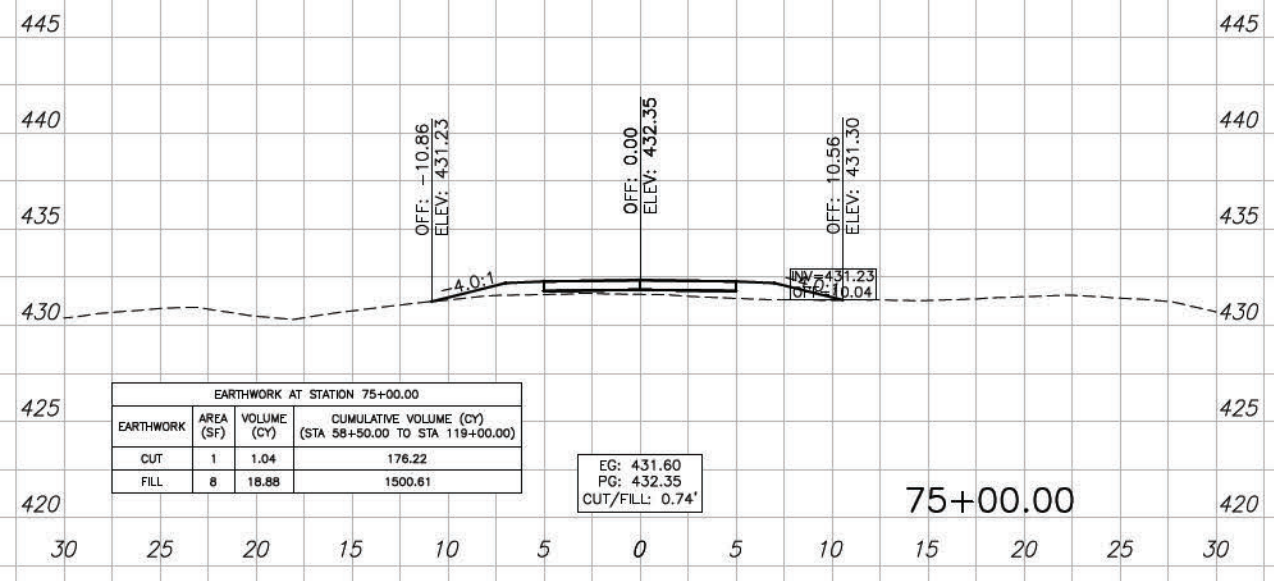
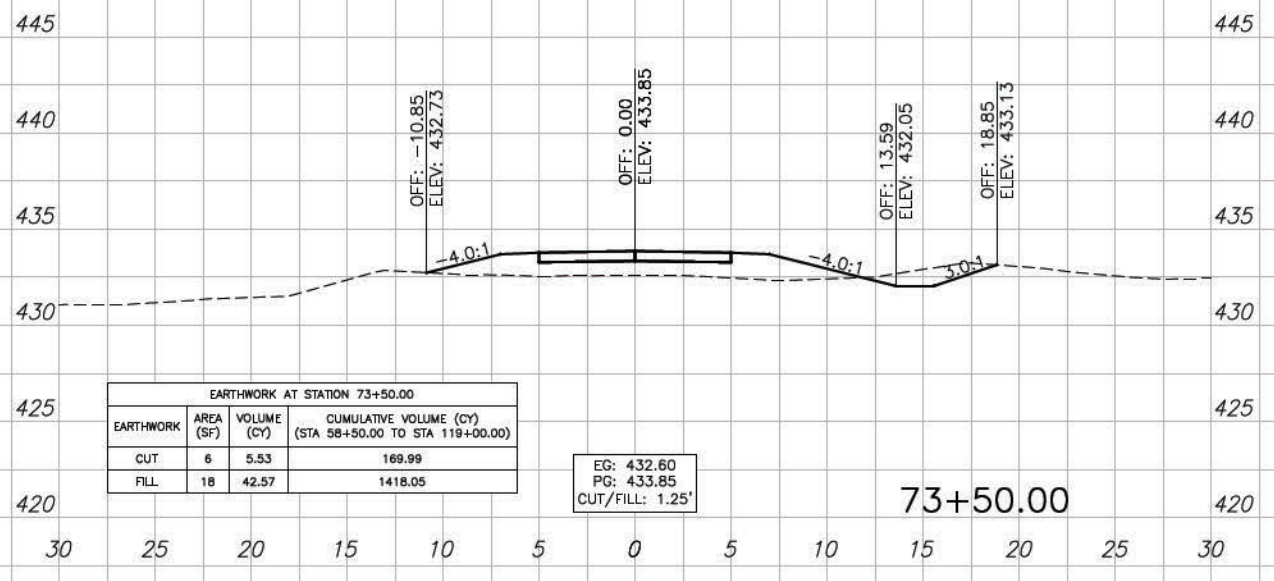
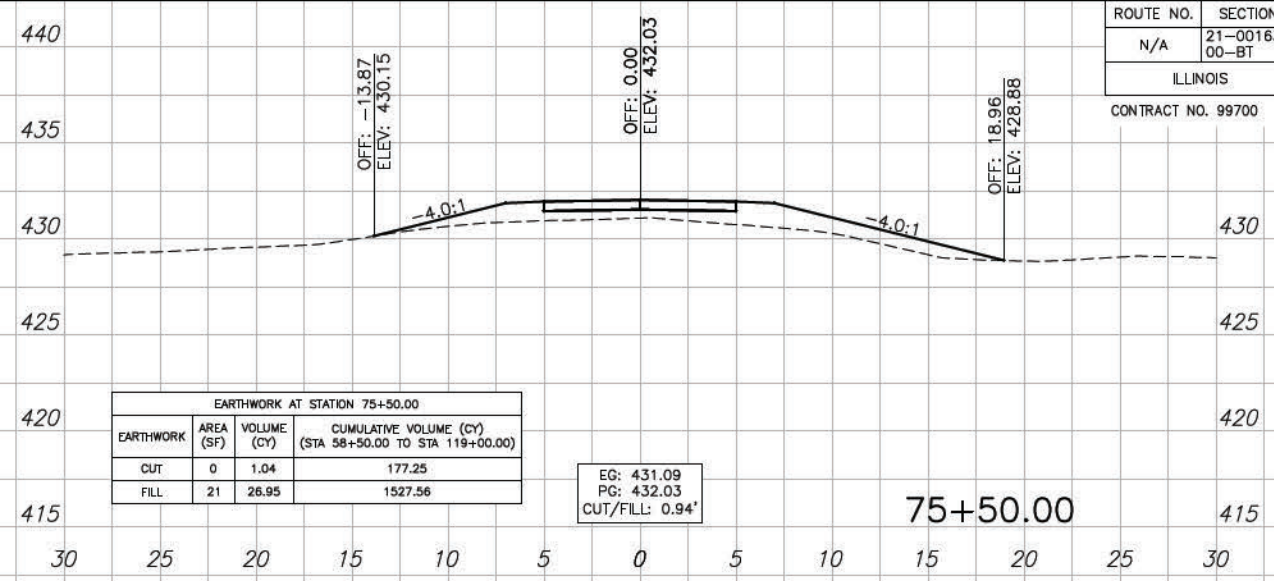
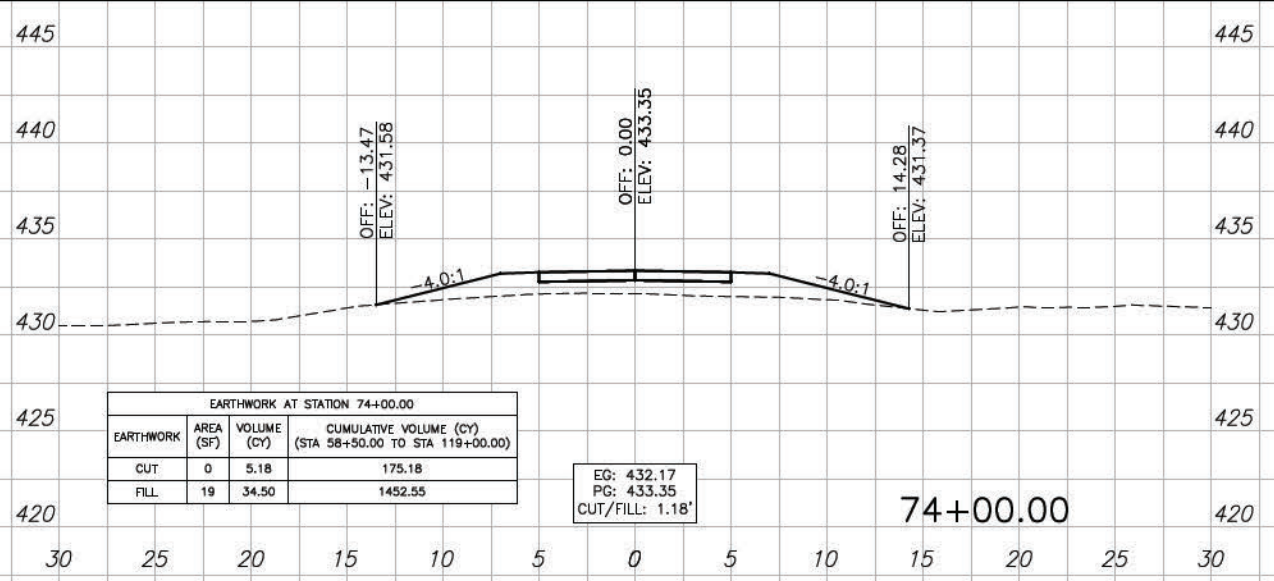
— SECTIONS — 67+00.00 TO 69+50.00

CONTRACT NO. 99700



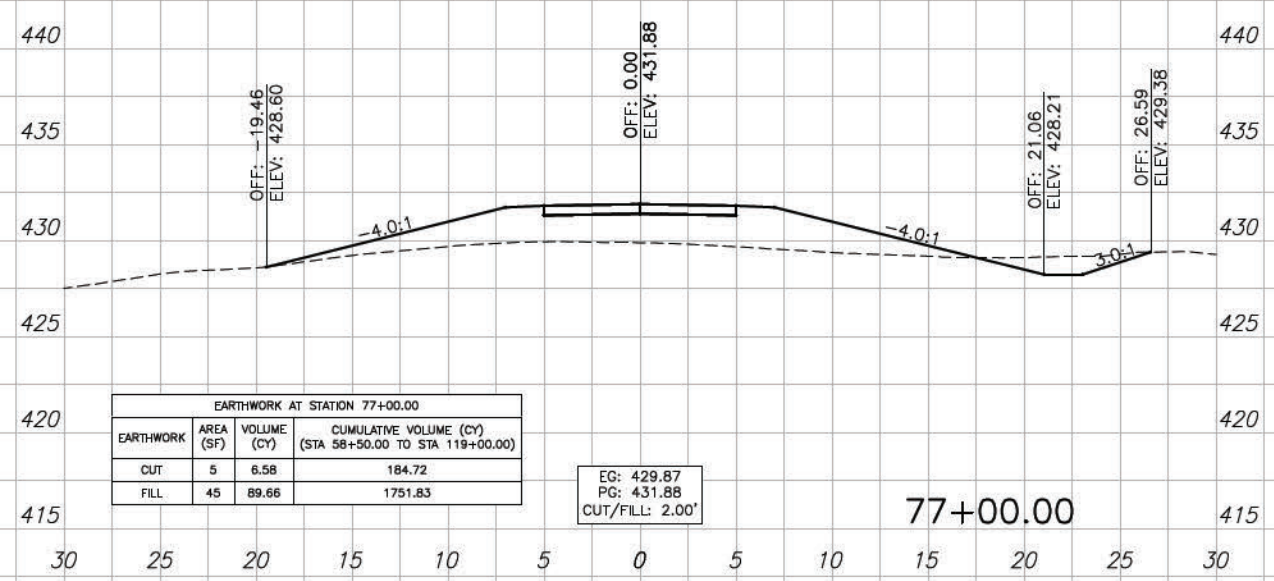
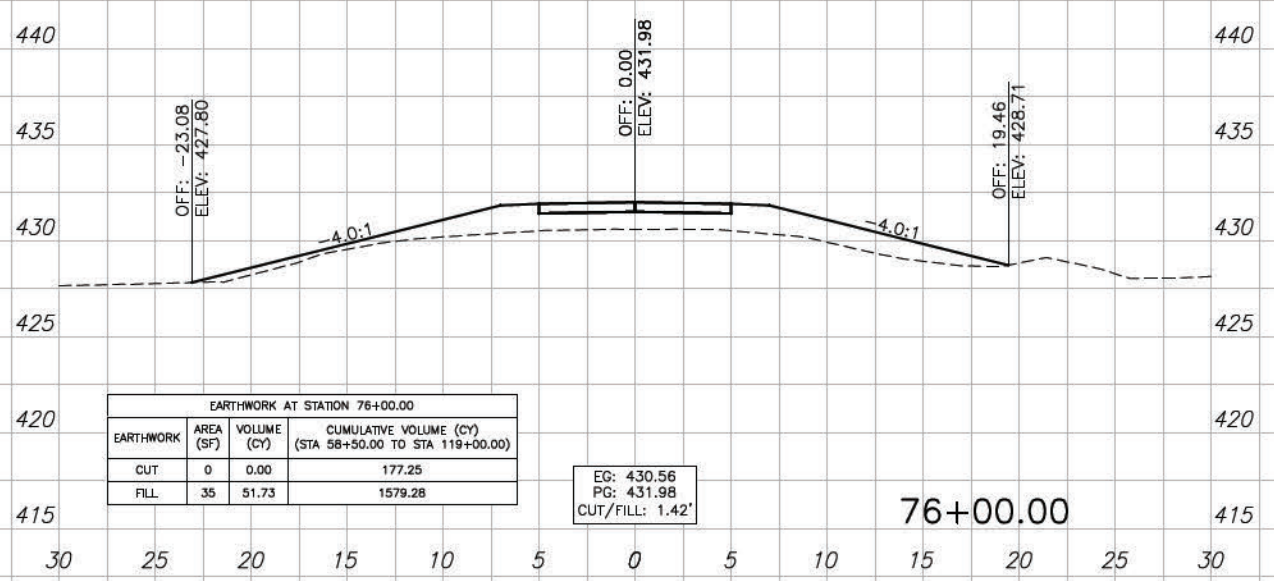
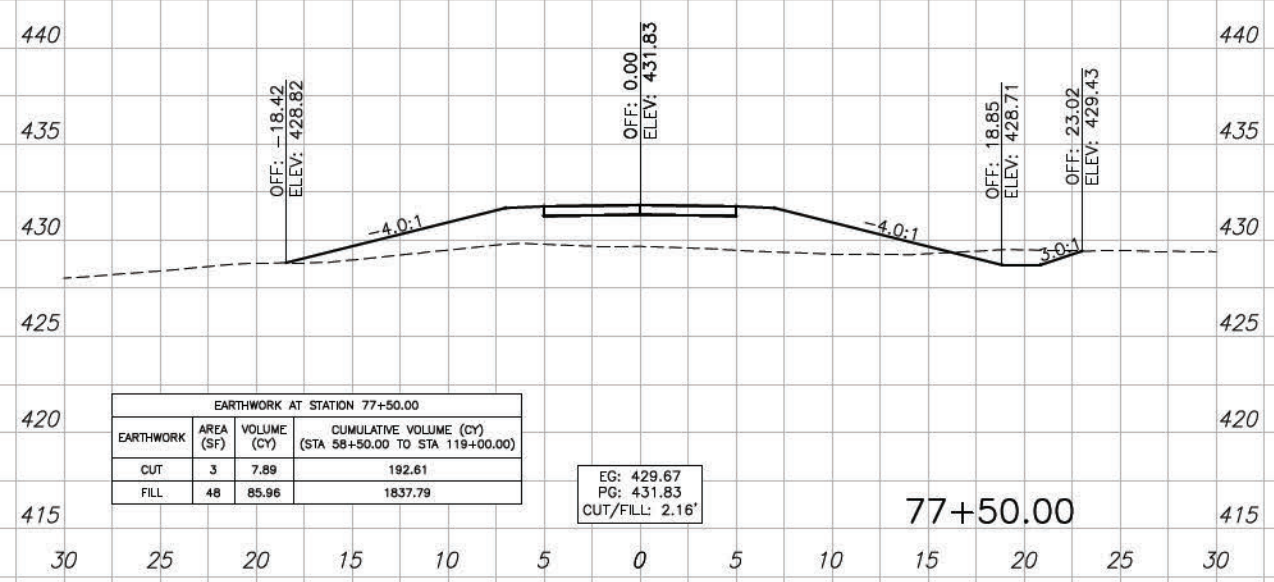
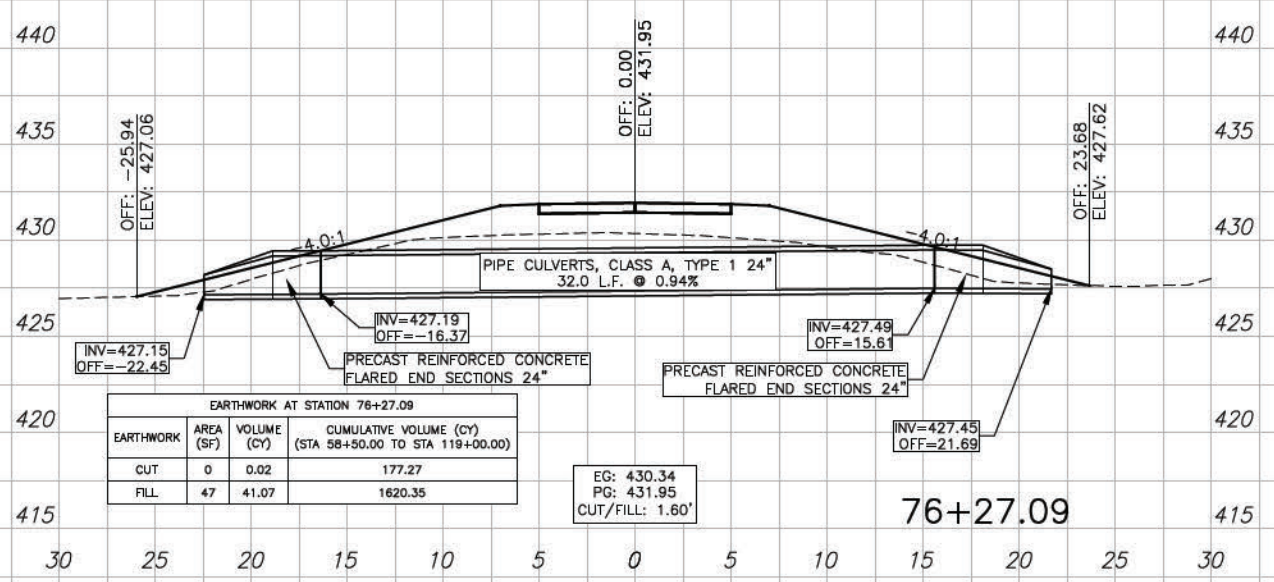
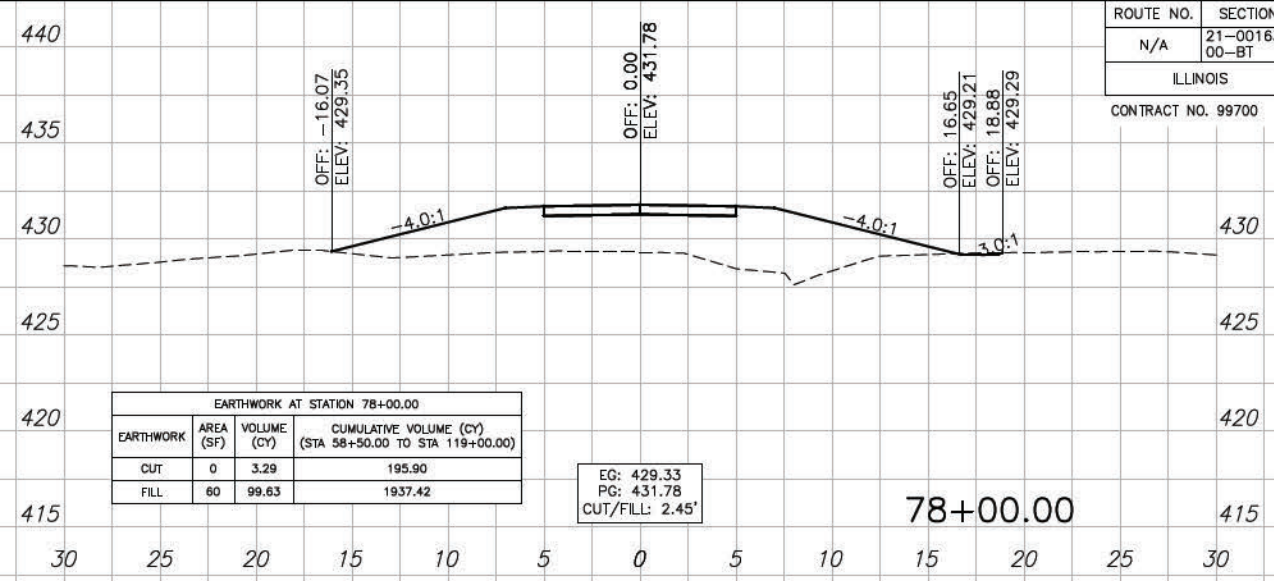
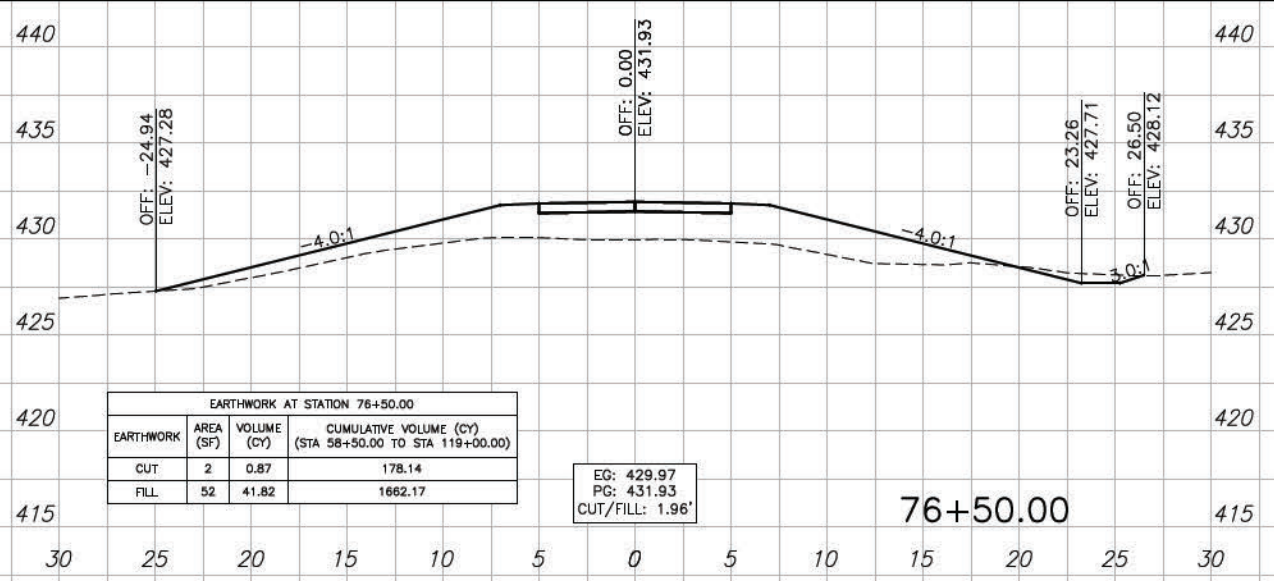
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	91	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

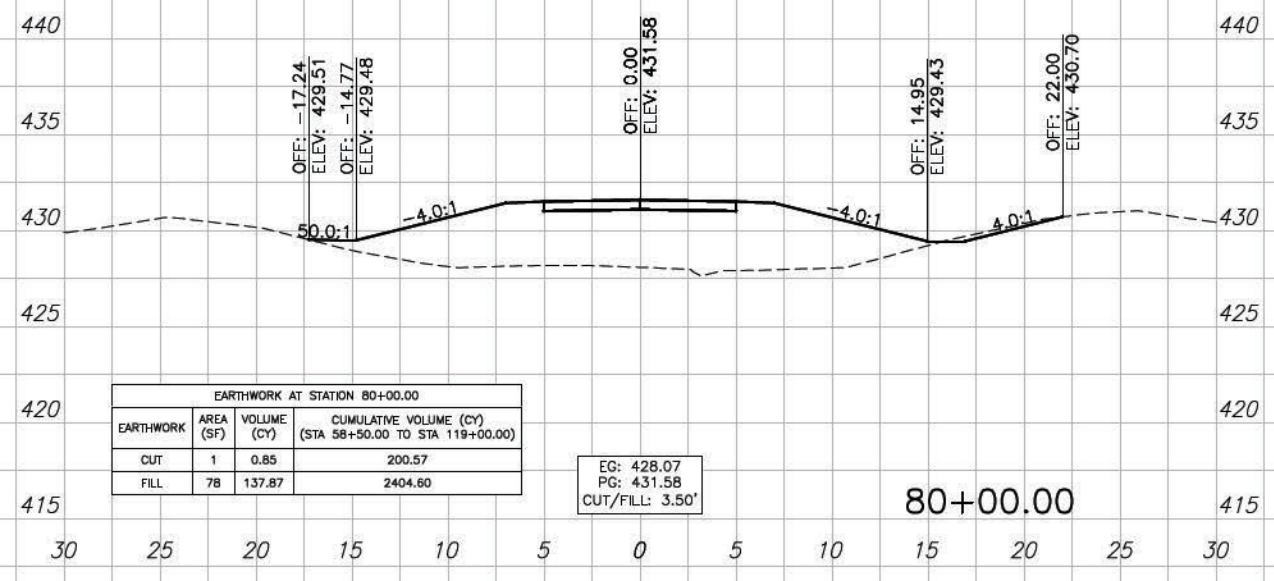
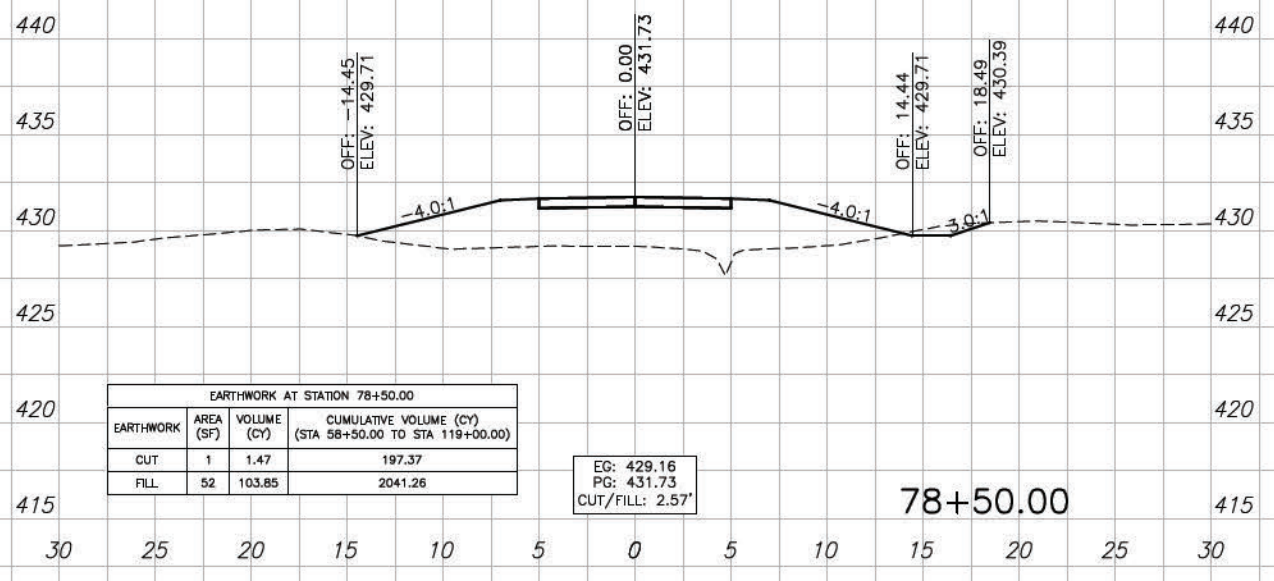
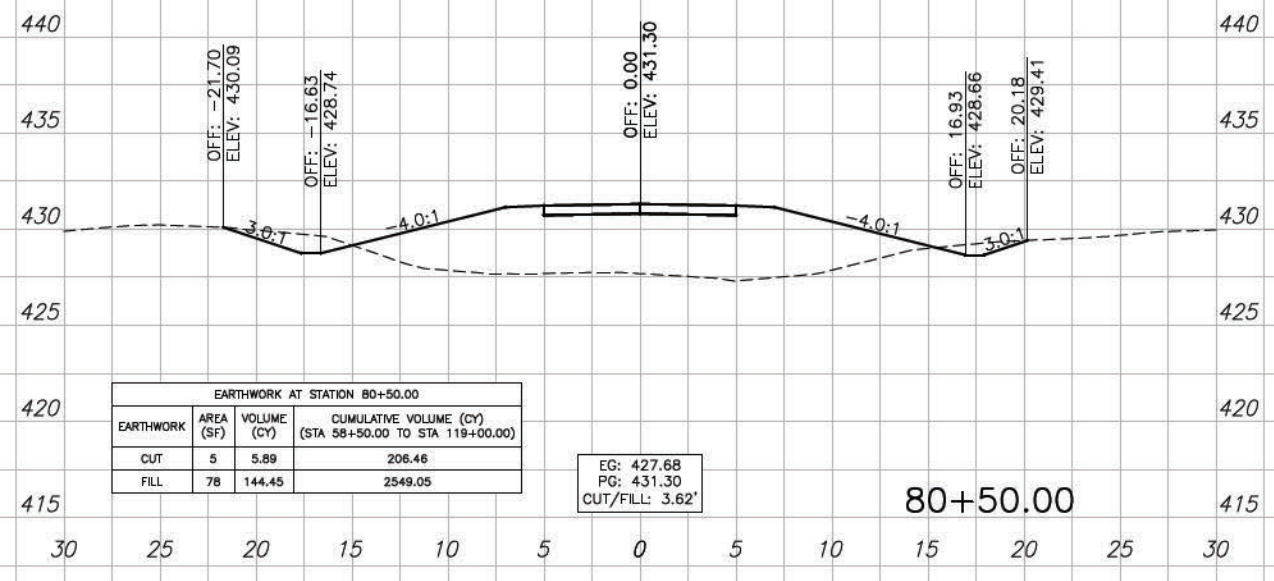
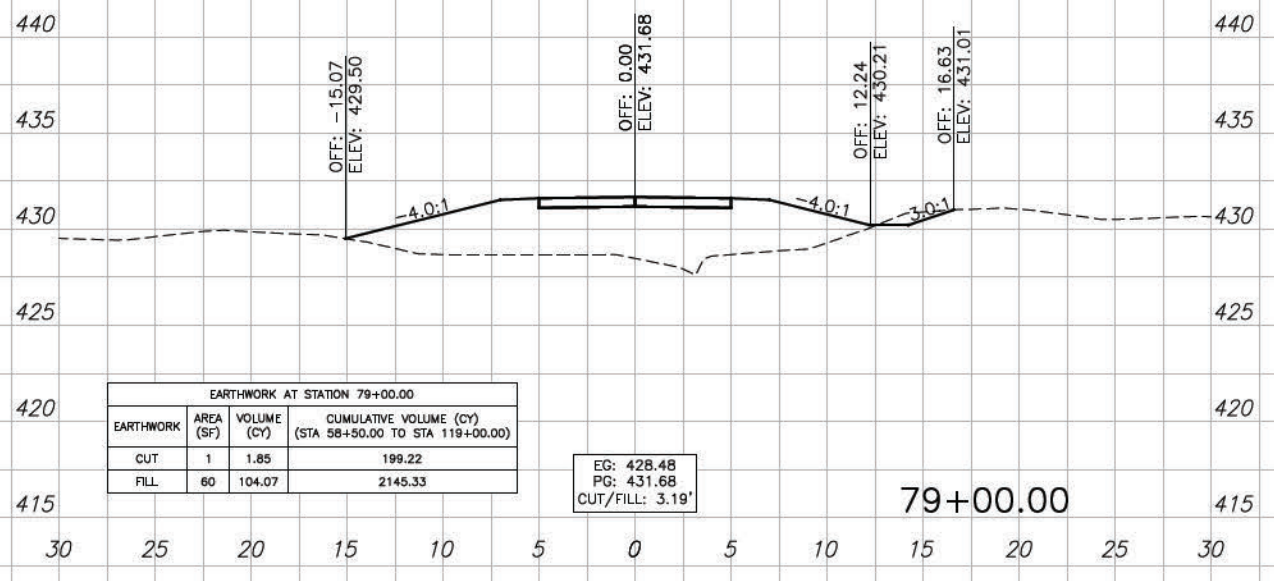
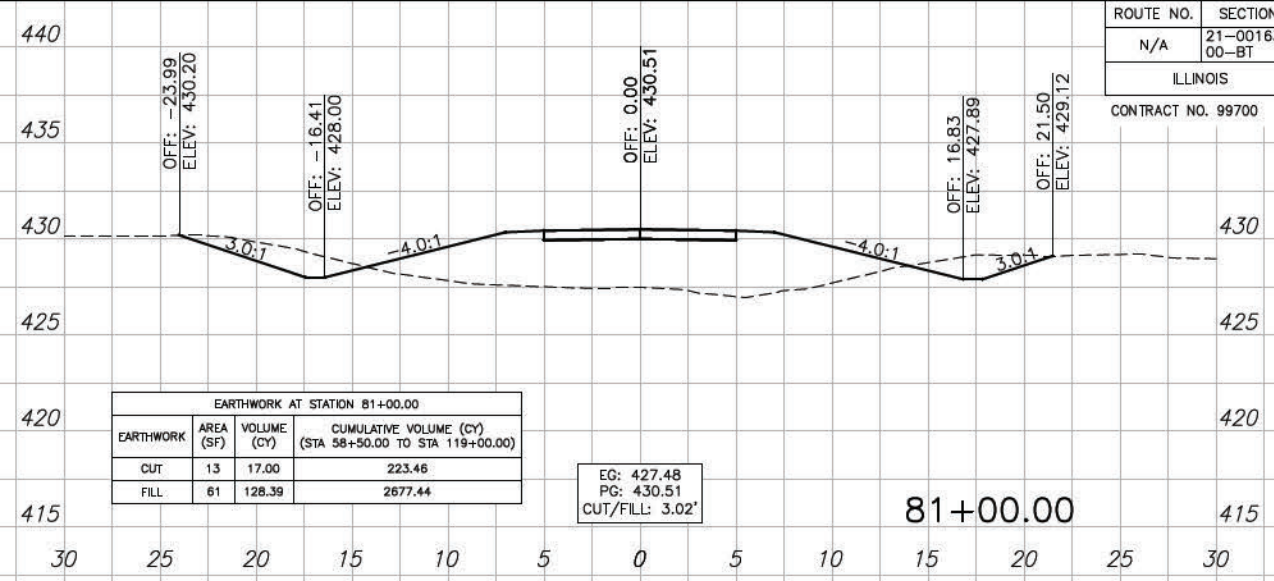
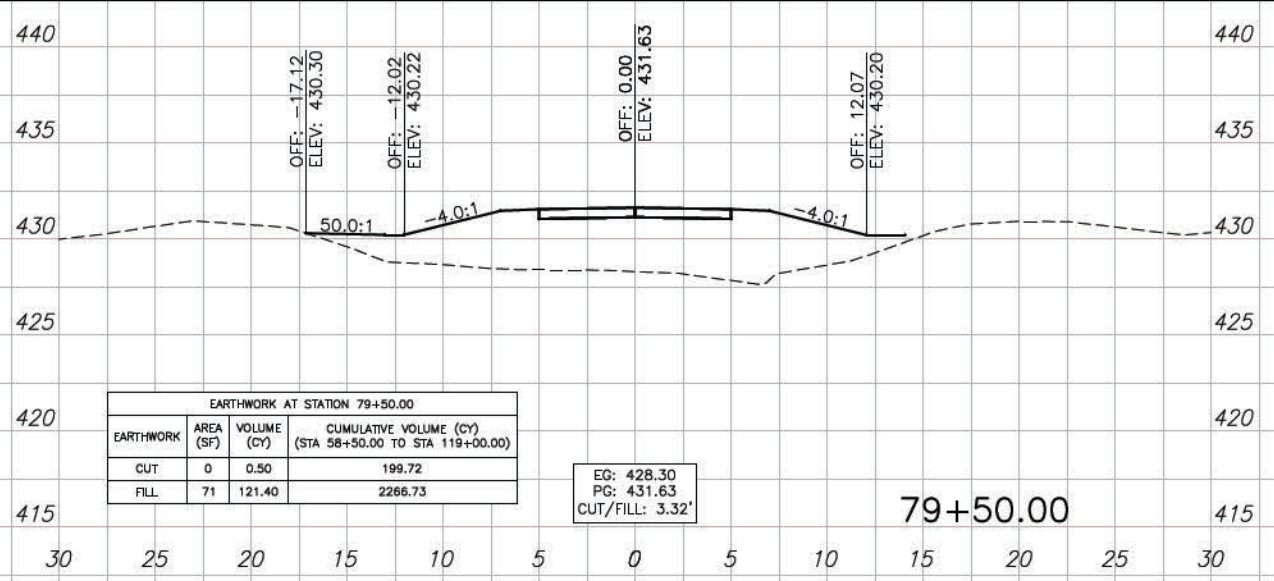


SECTIONS - 73+00.00 TO 75+50.00

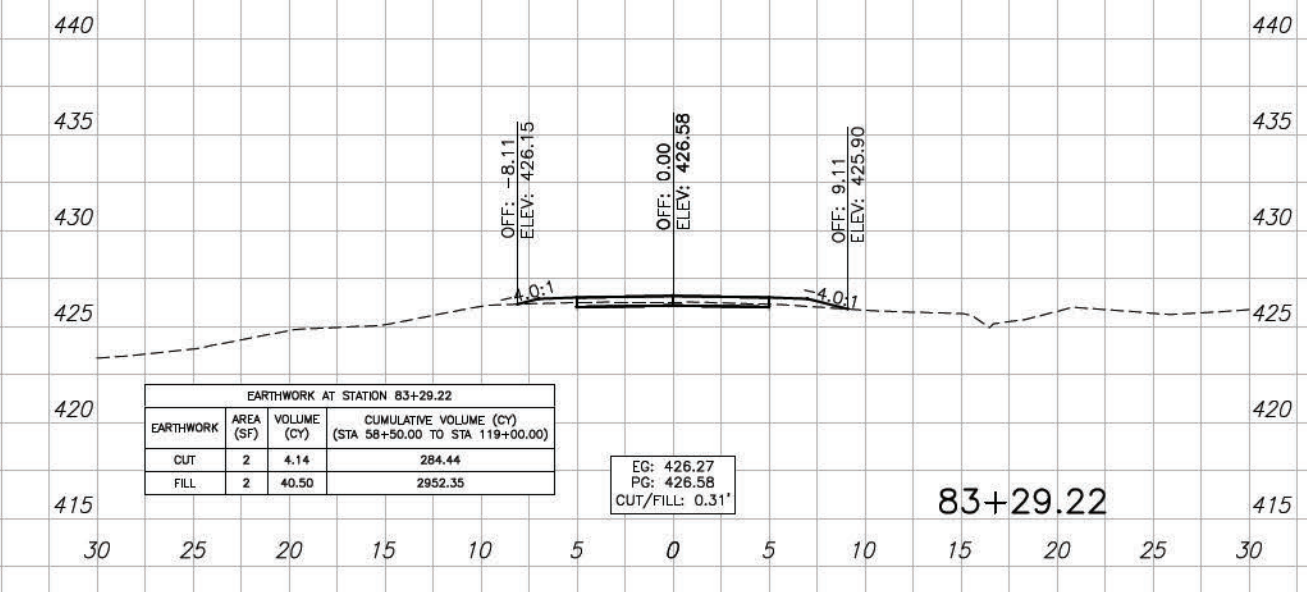
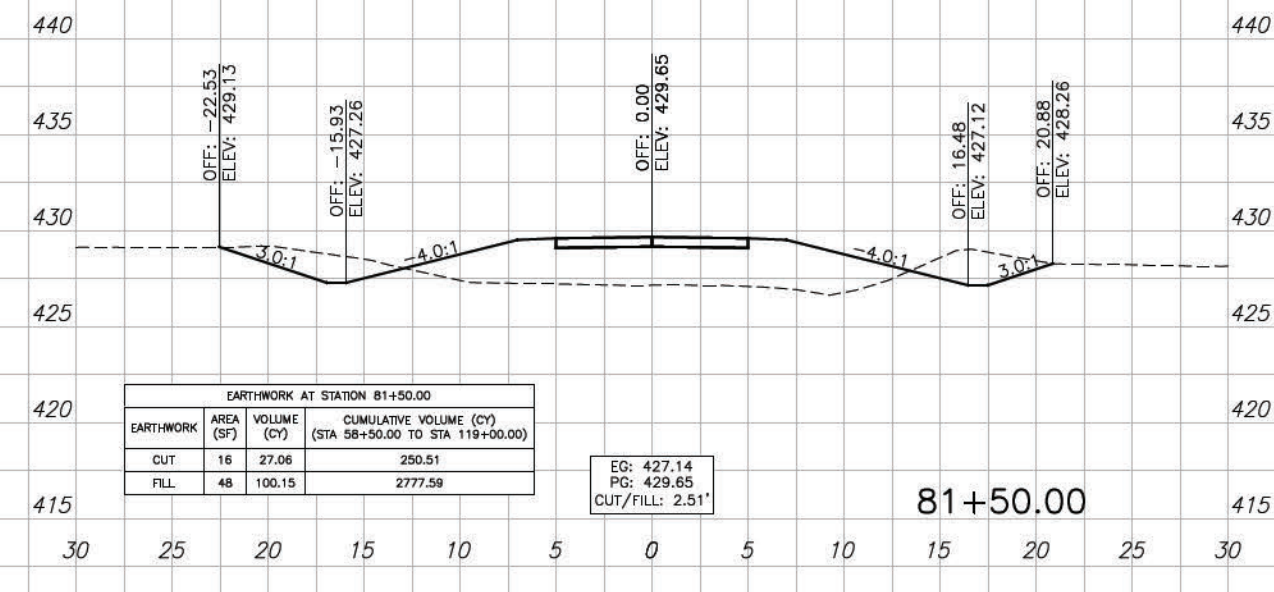
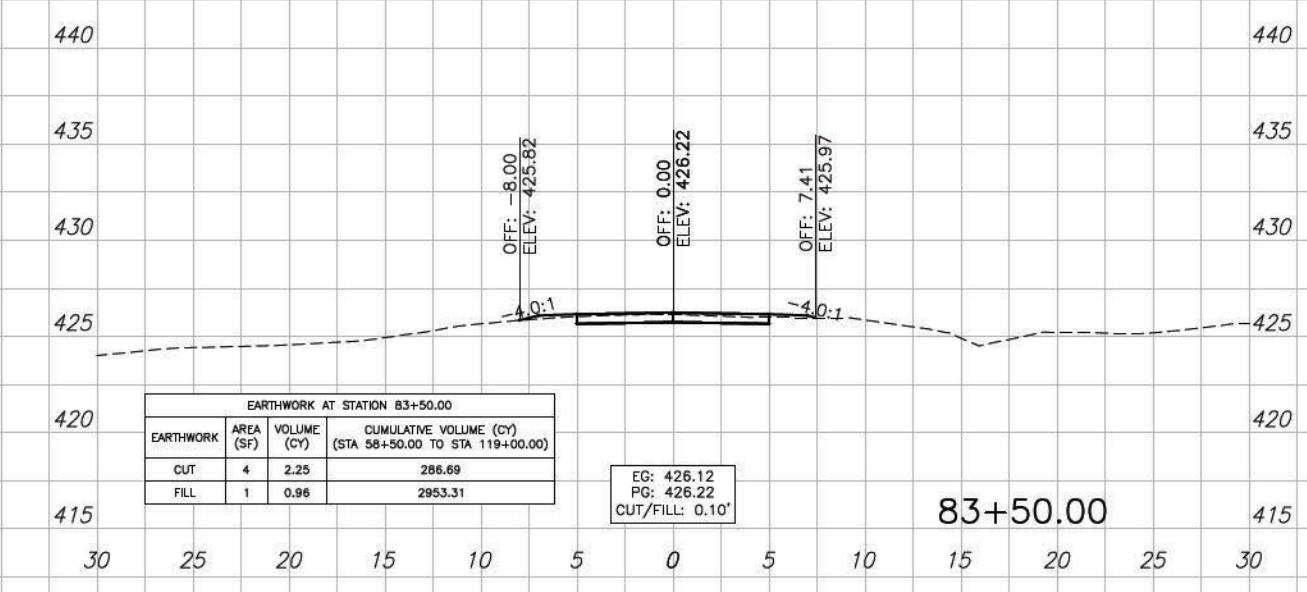
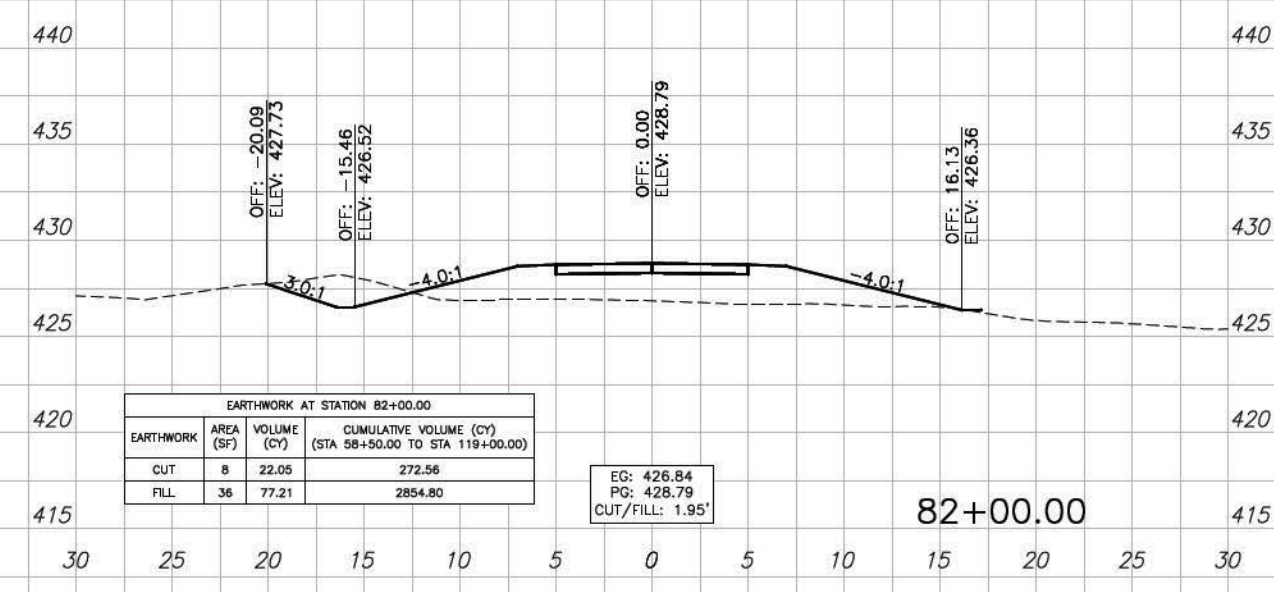
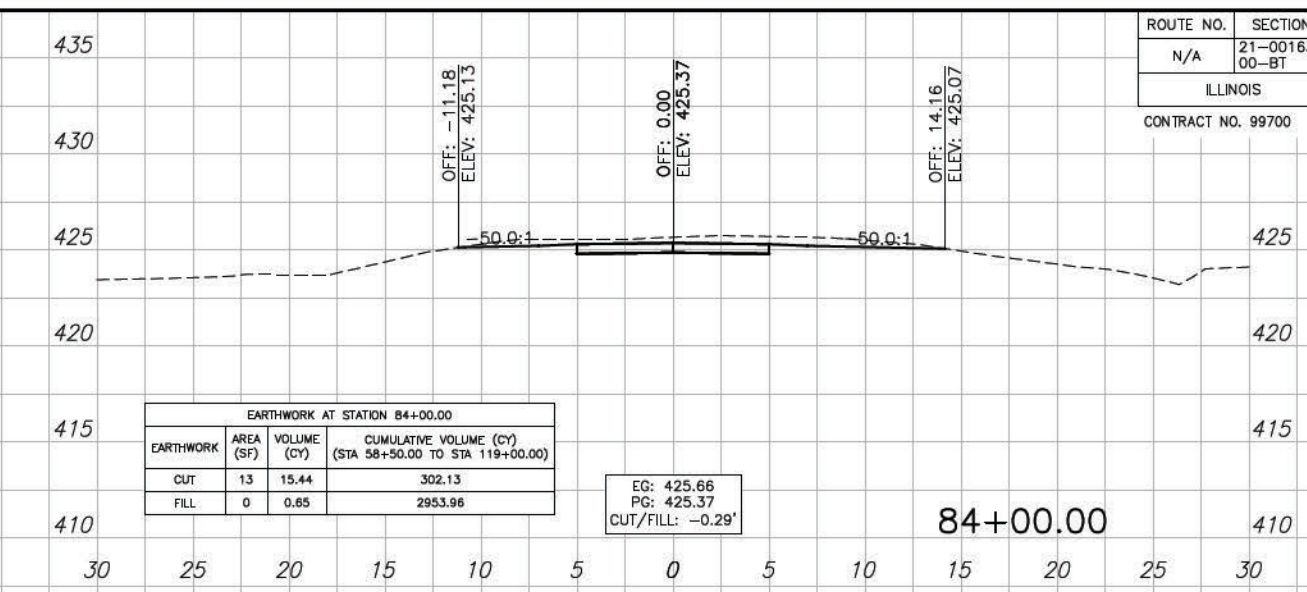
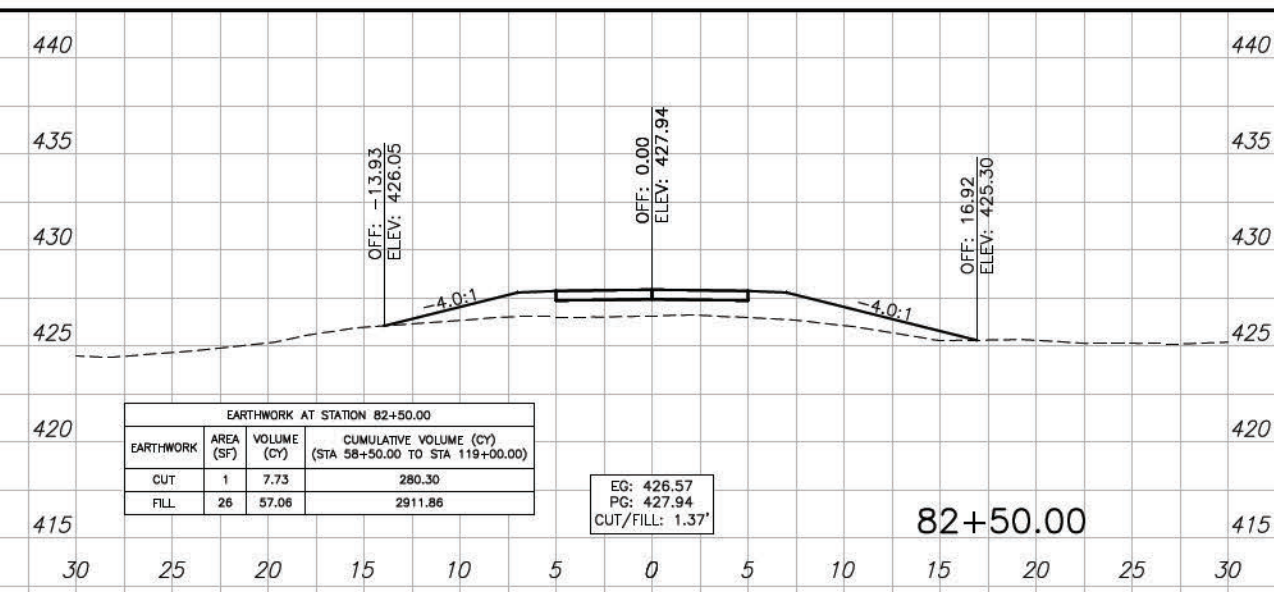
CONTRACT NO. 99700



CONTRACT NO. 99700

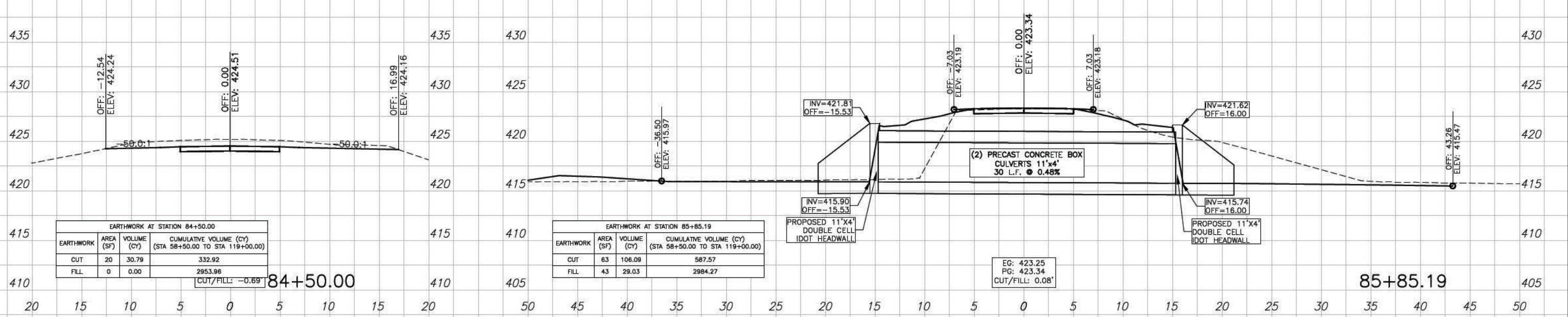
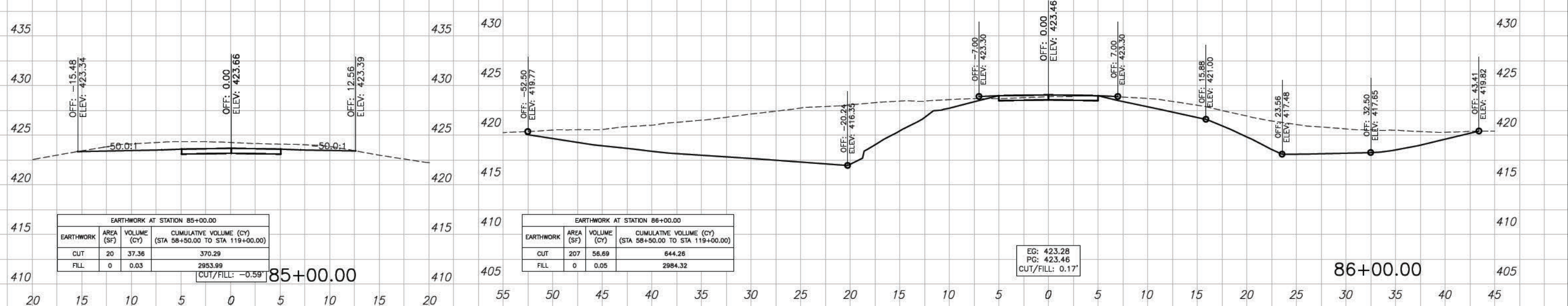
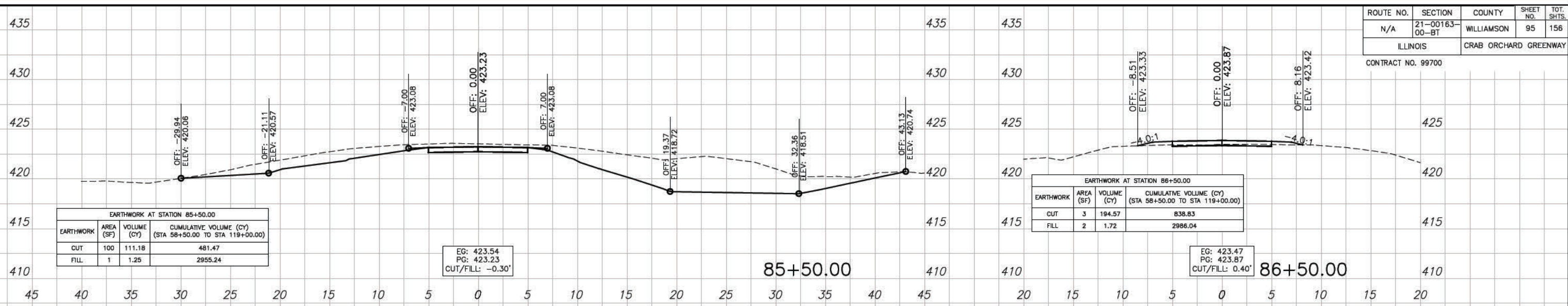


CONTRACT NO. 99700



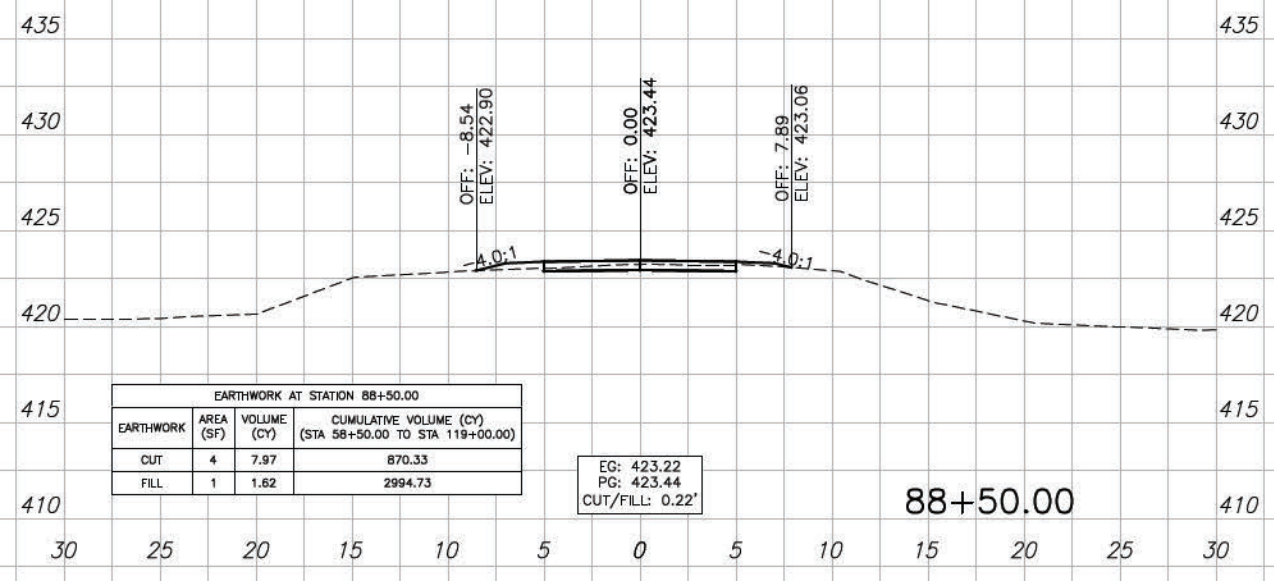
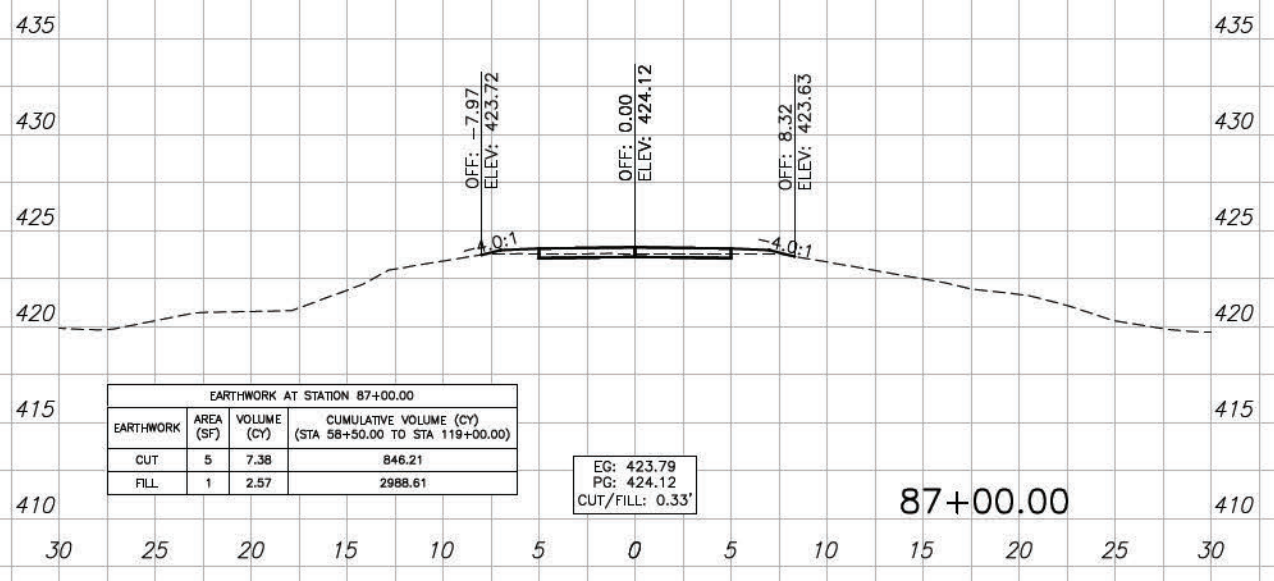
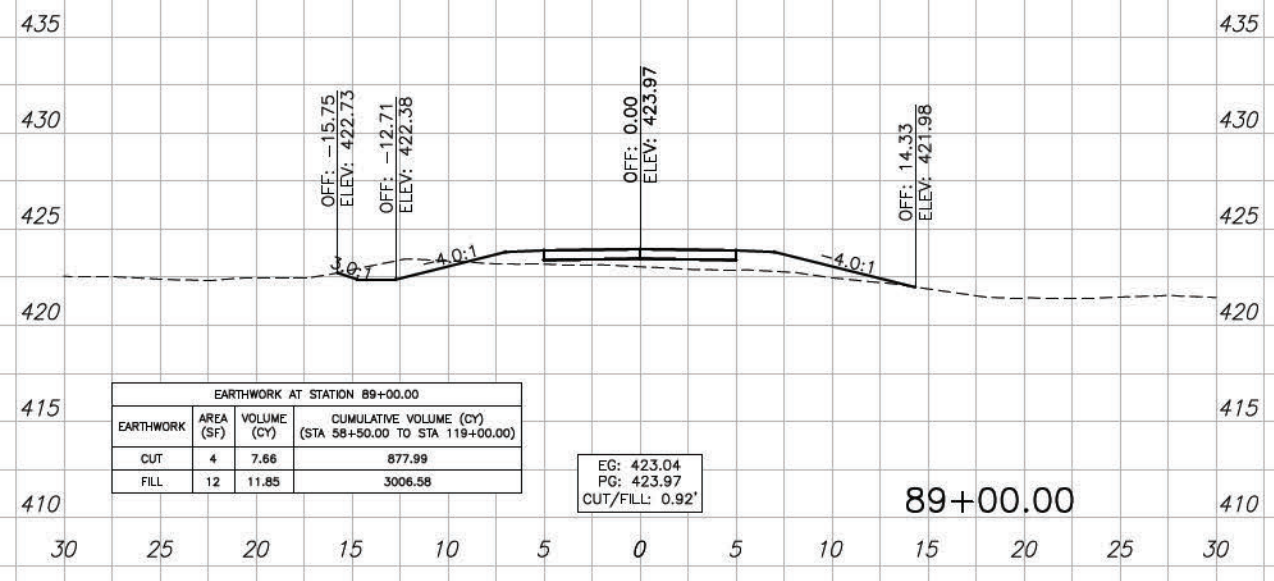
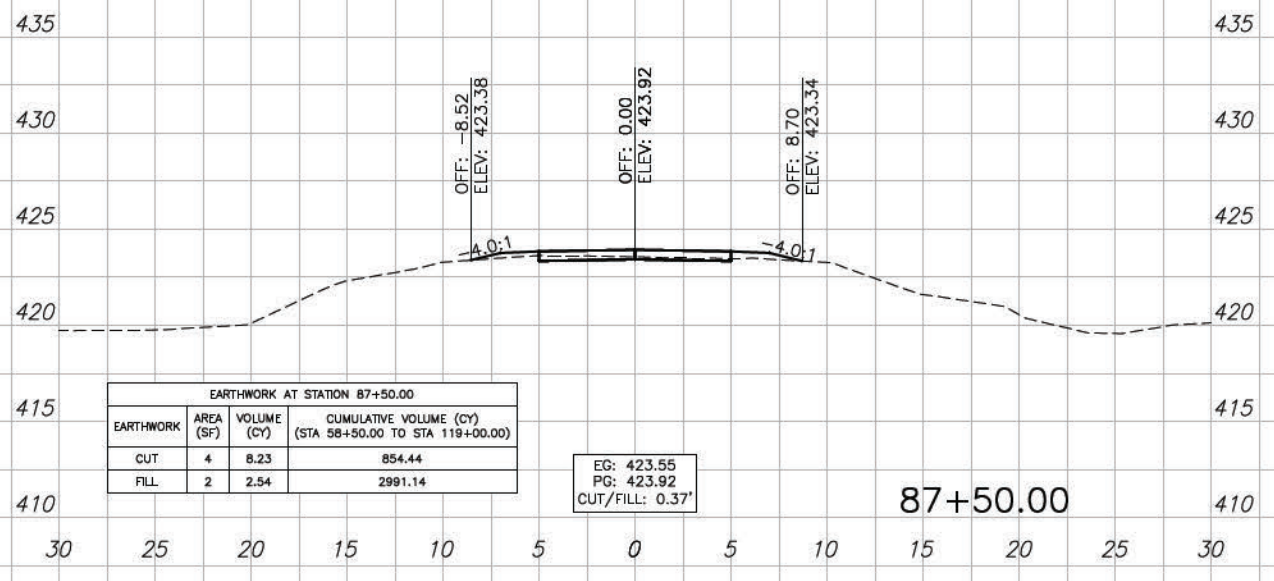
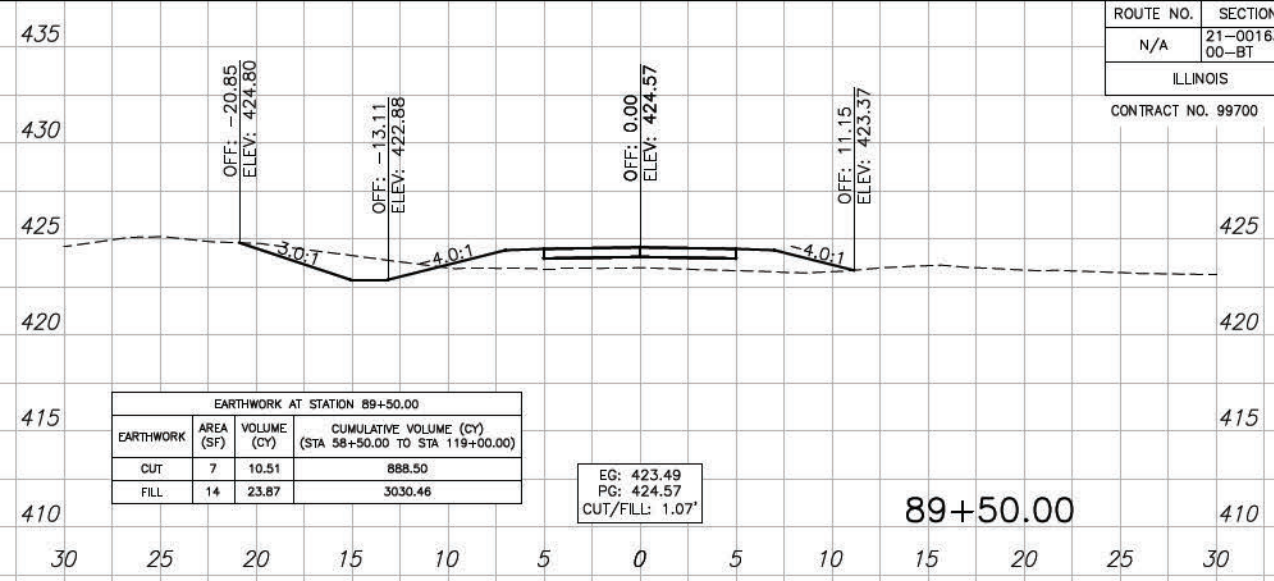
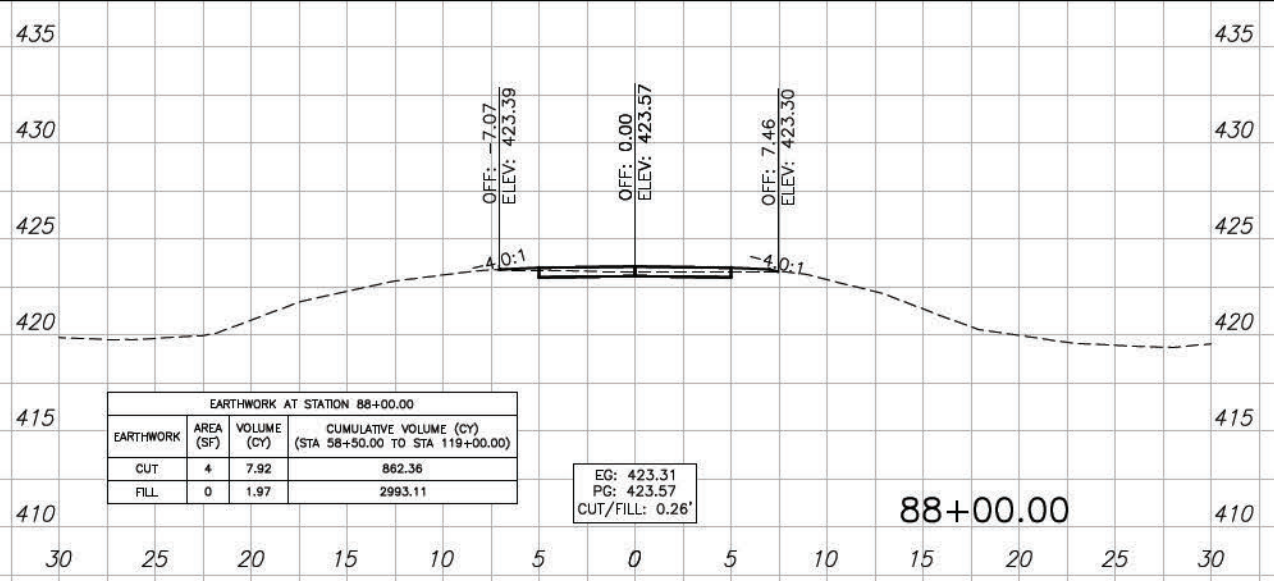
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	95	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



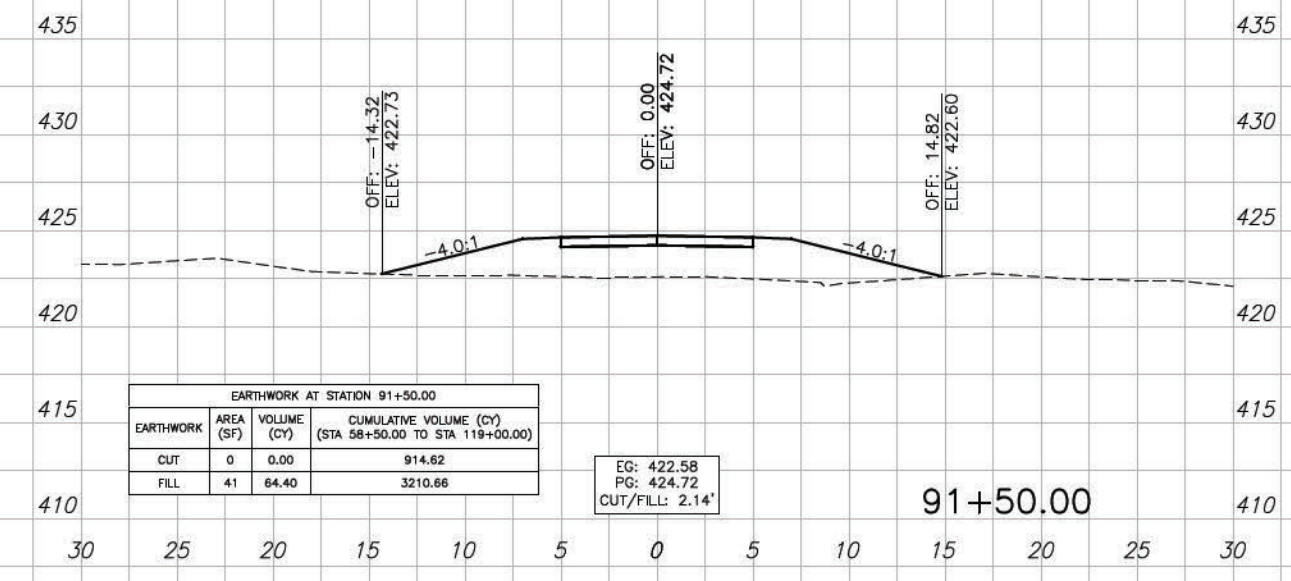
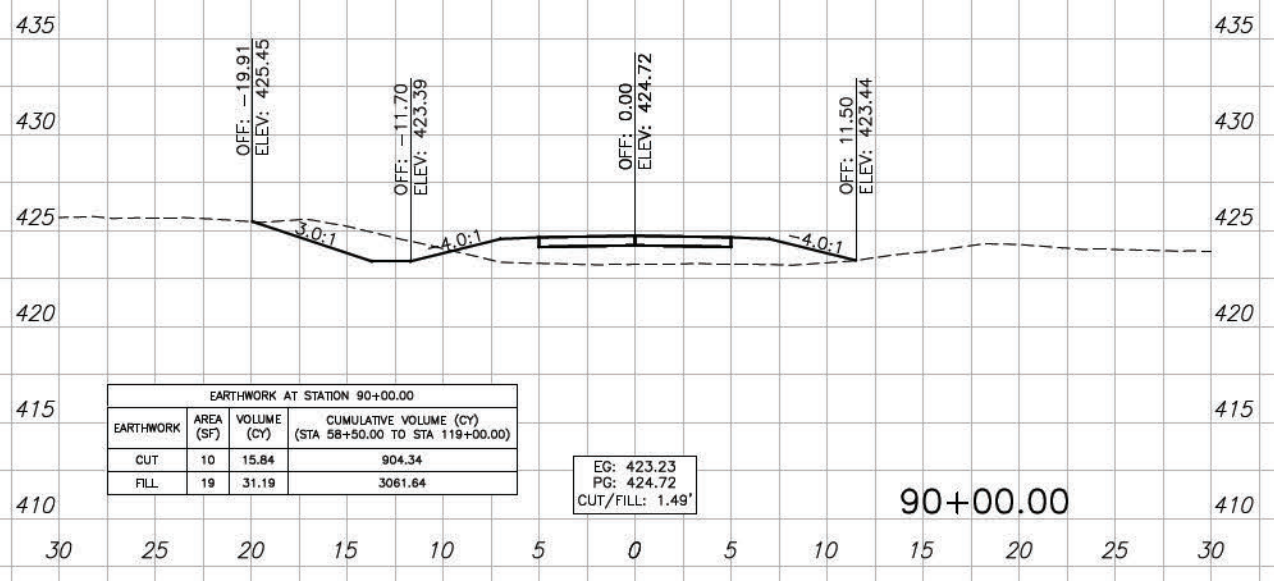
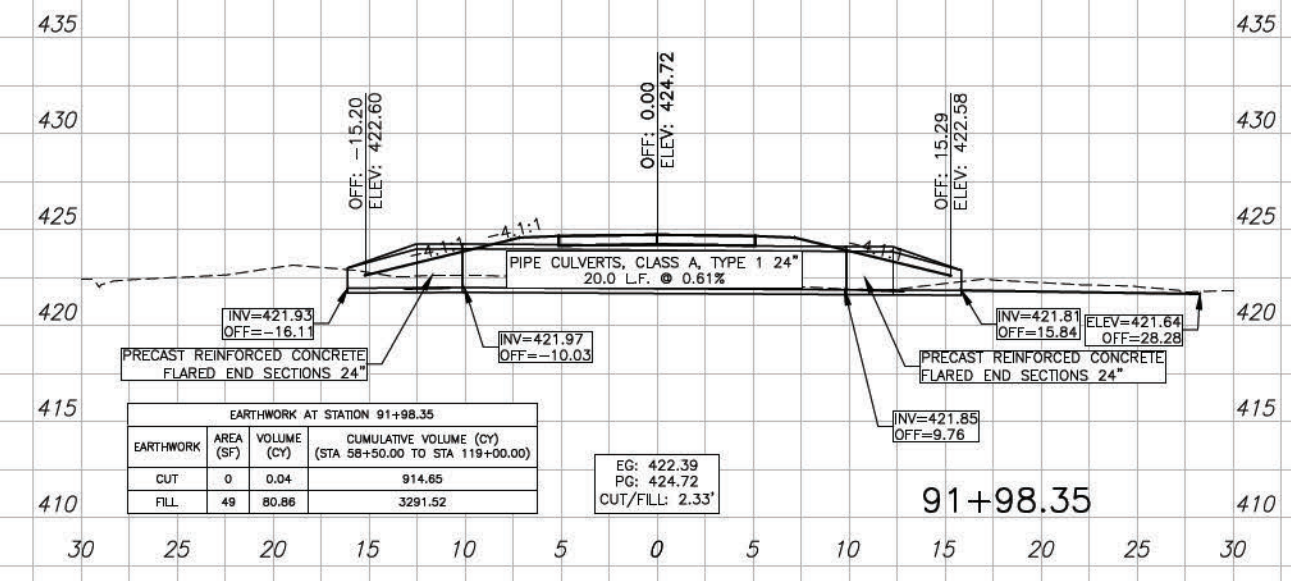
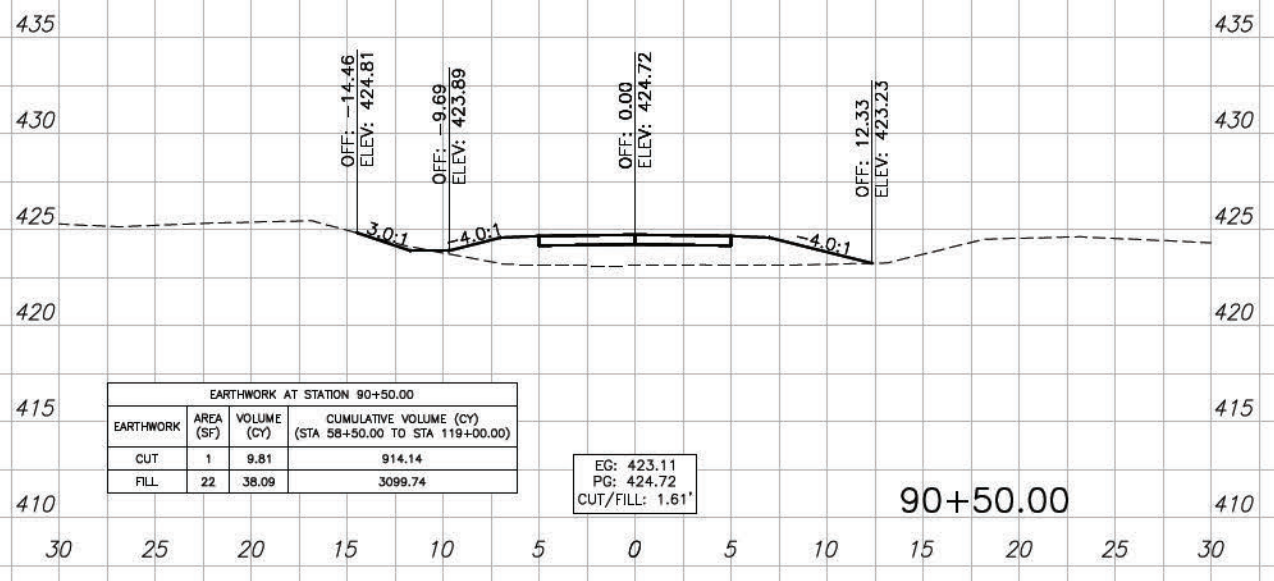
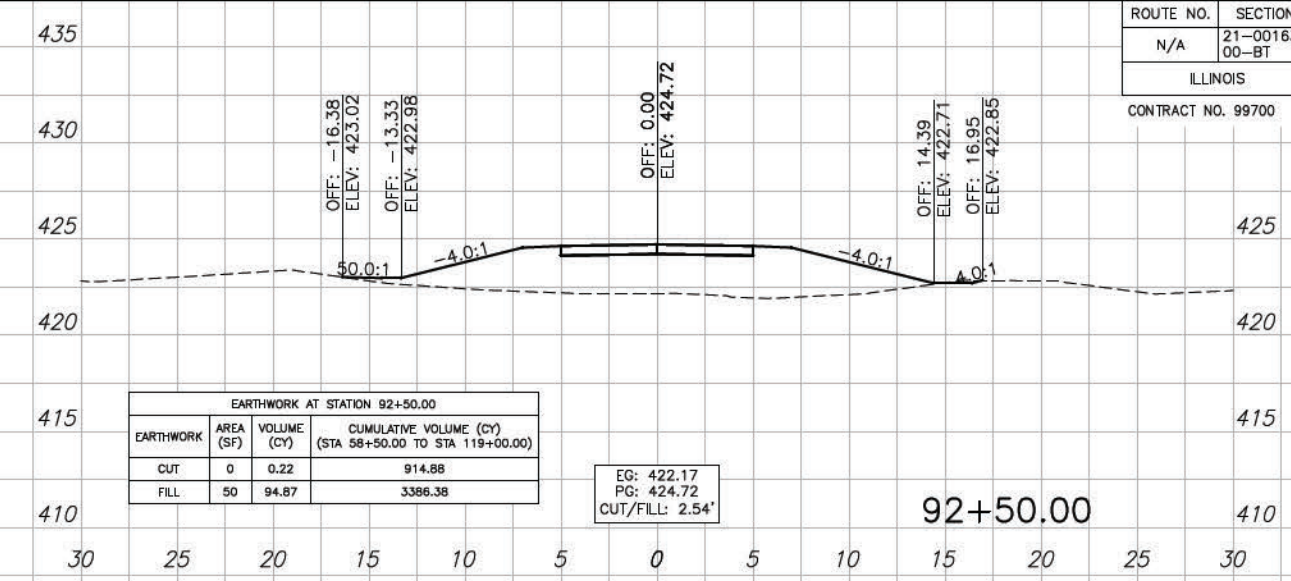
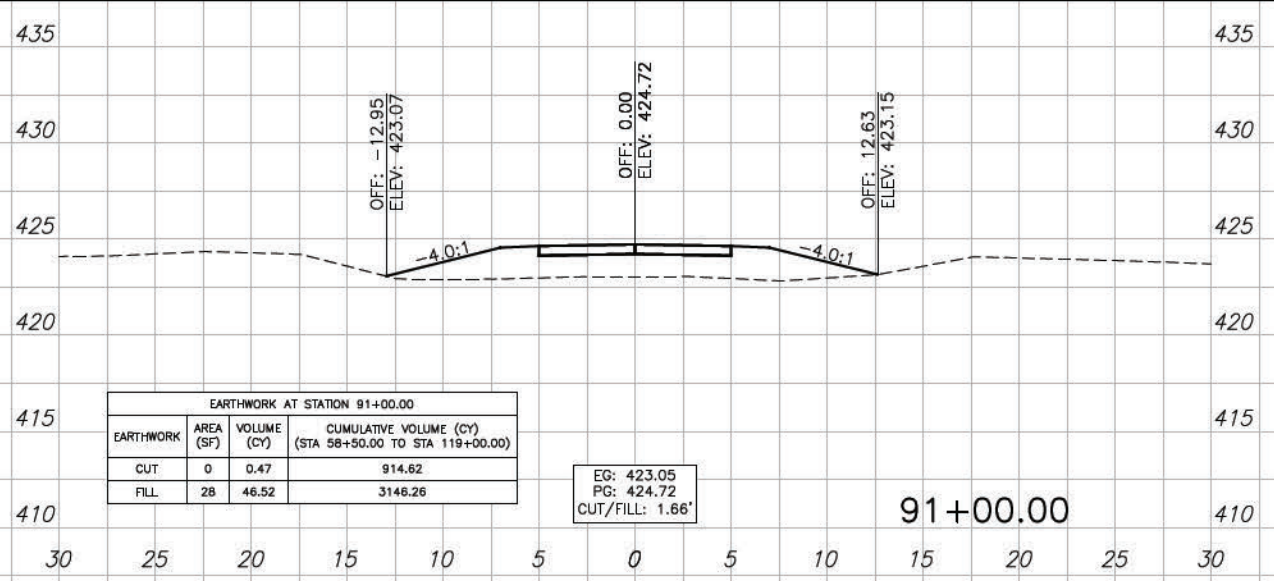
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	96	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



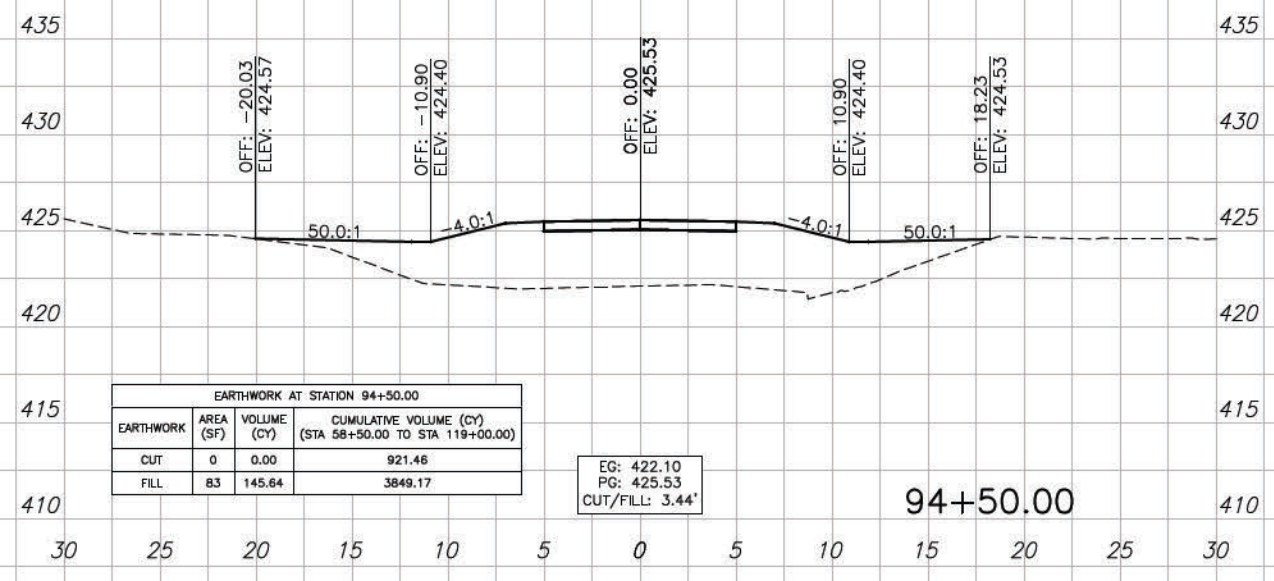
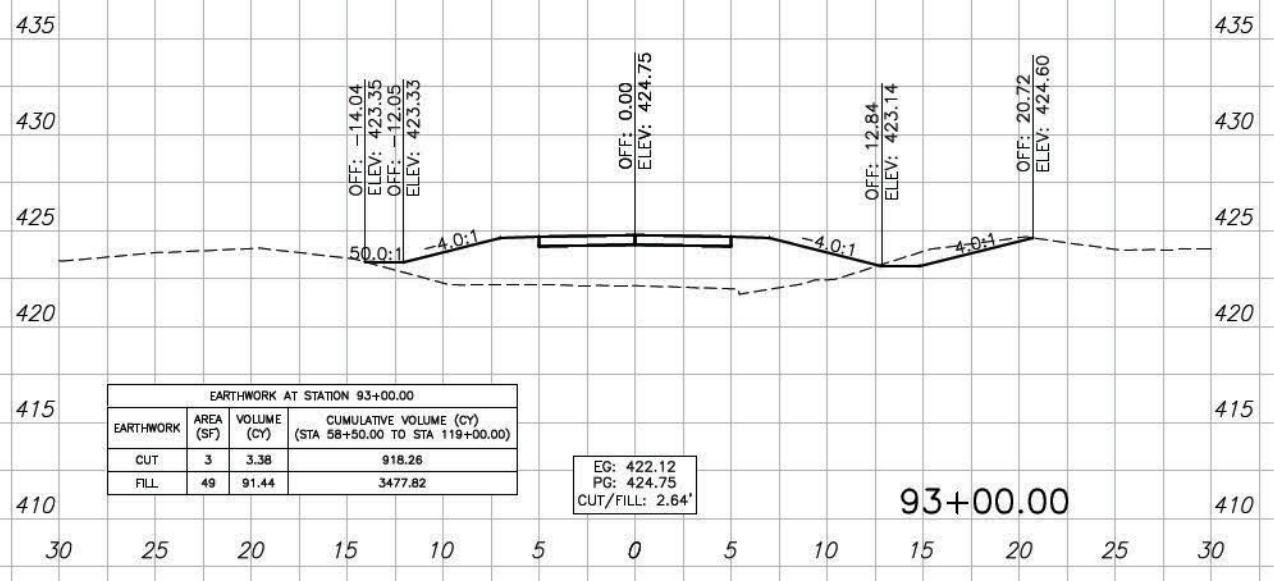
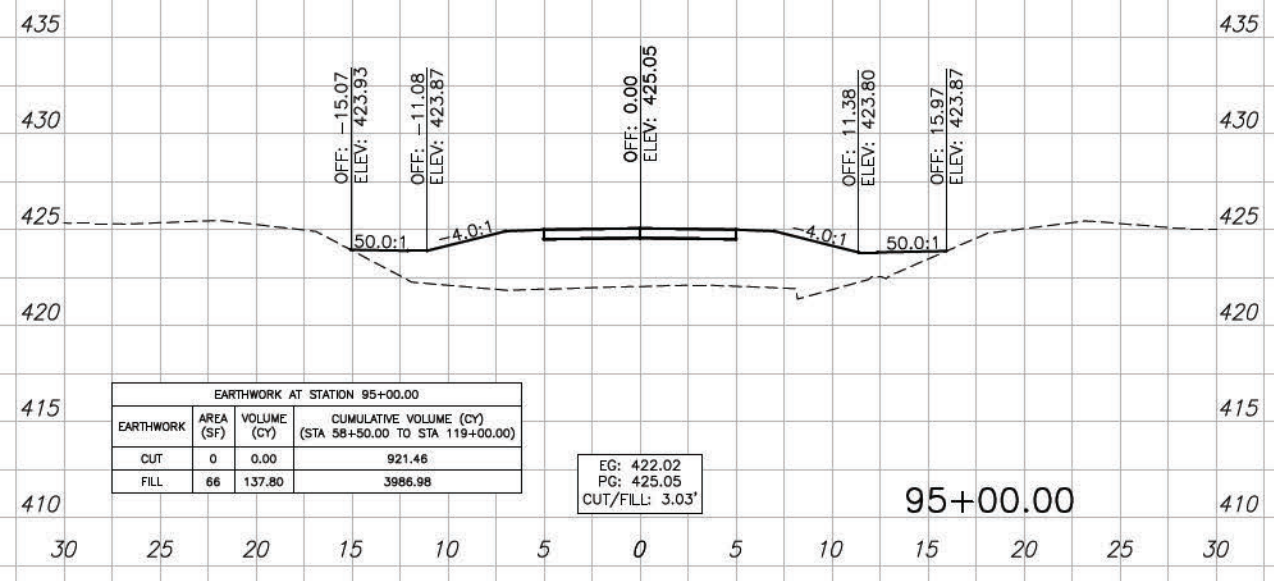
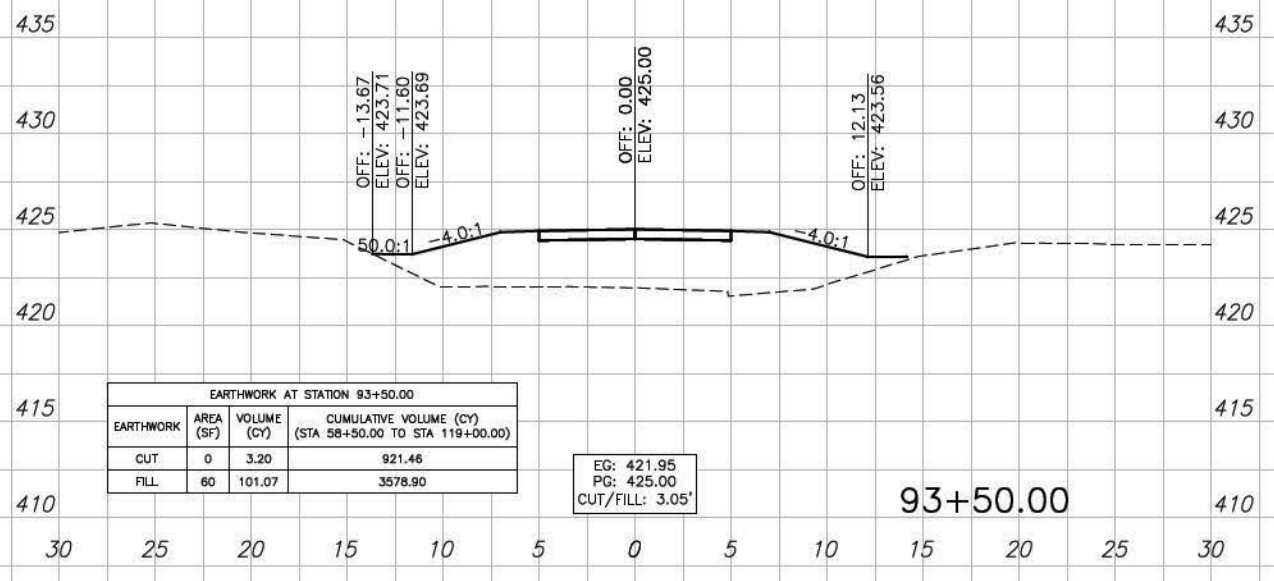
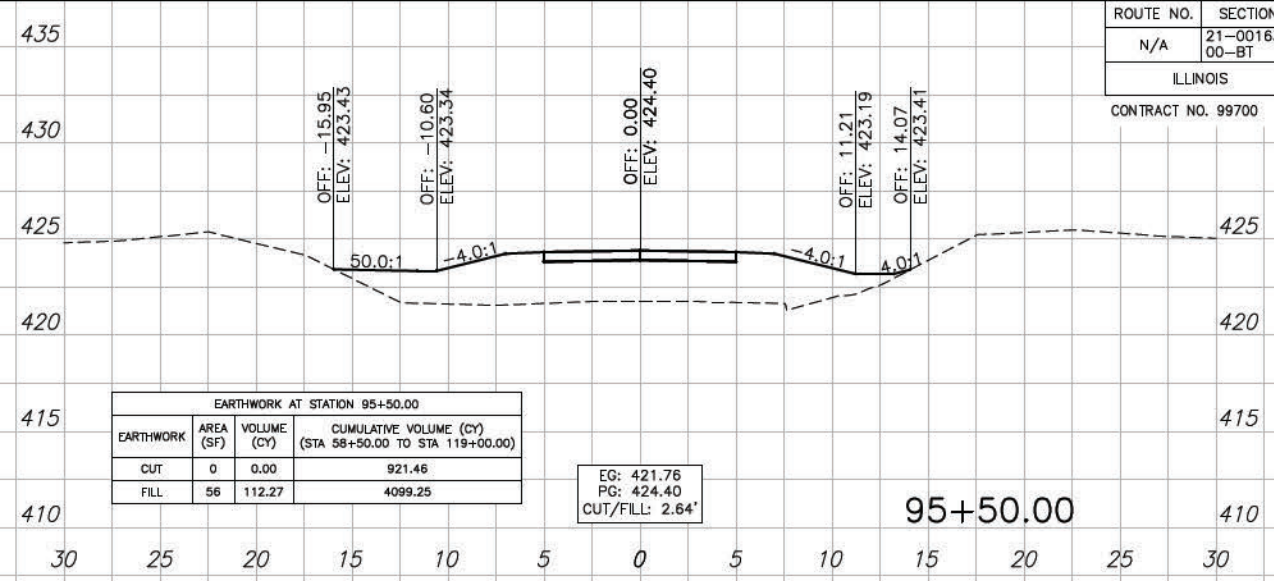
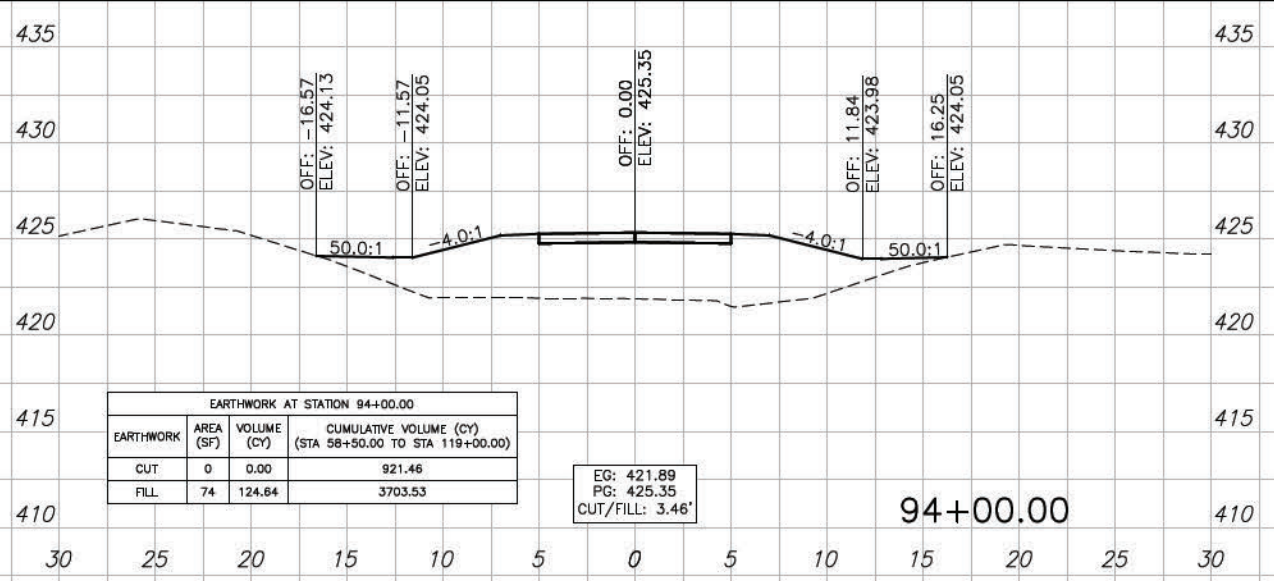


CONTRACT NO. 99700



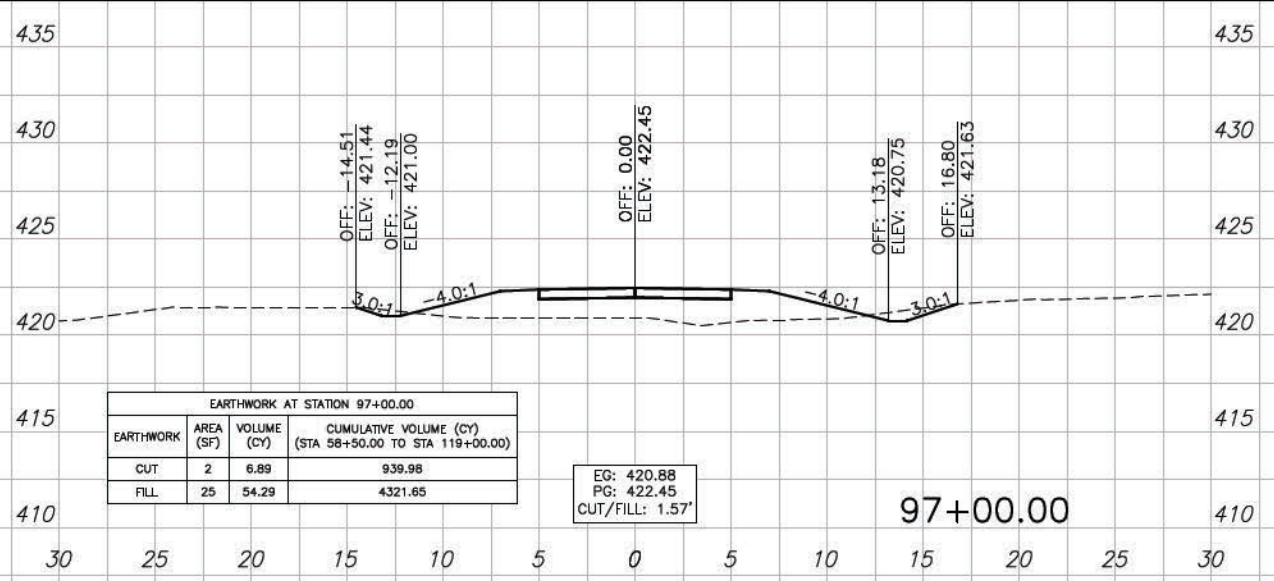
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	98	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



SECTIONS - 93+00.00 TO 95+50.00

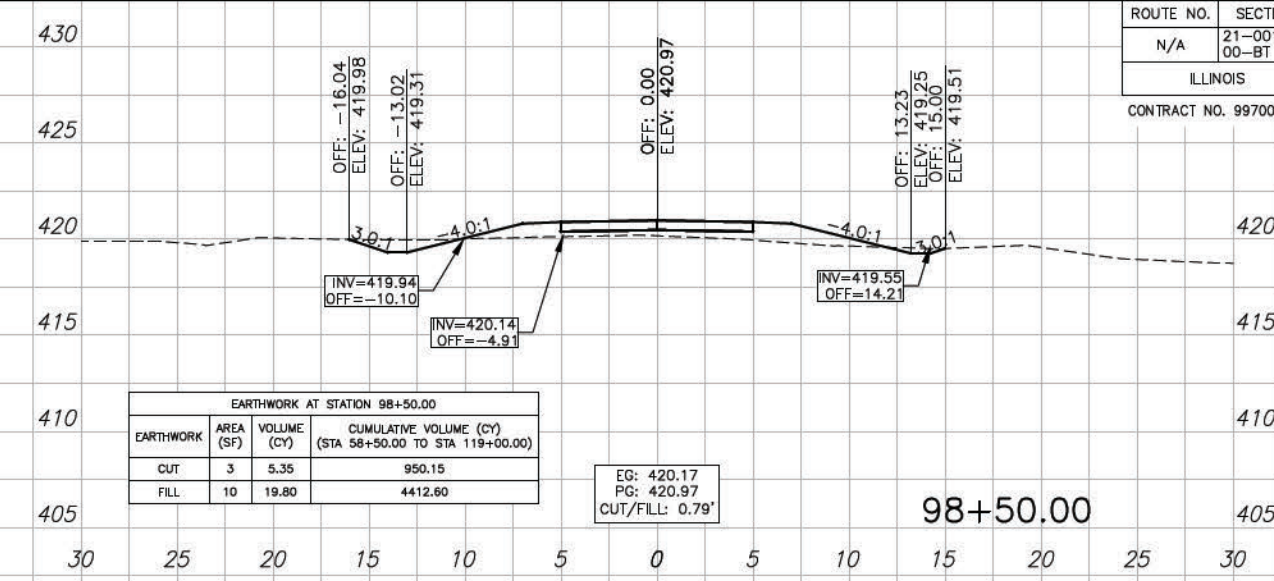
CONTRACT NO. 99700



EARTHWORK AT STATION 97+00.00			
EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	2	6.89	939.98
FILL	25	54.29	4321.65

EG: 420.88  
PG: 422.45  
CUT/FILL: 1.57'

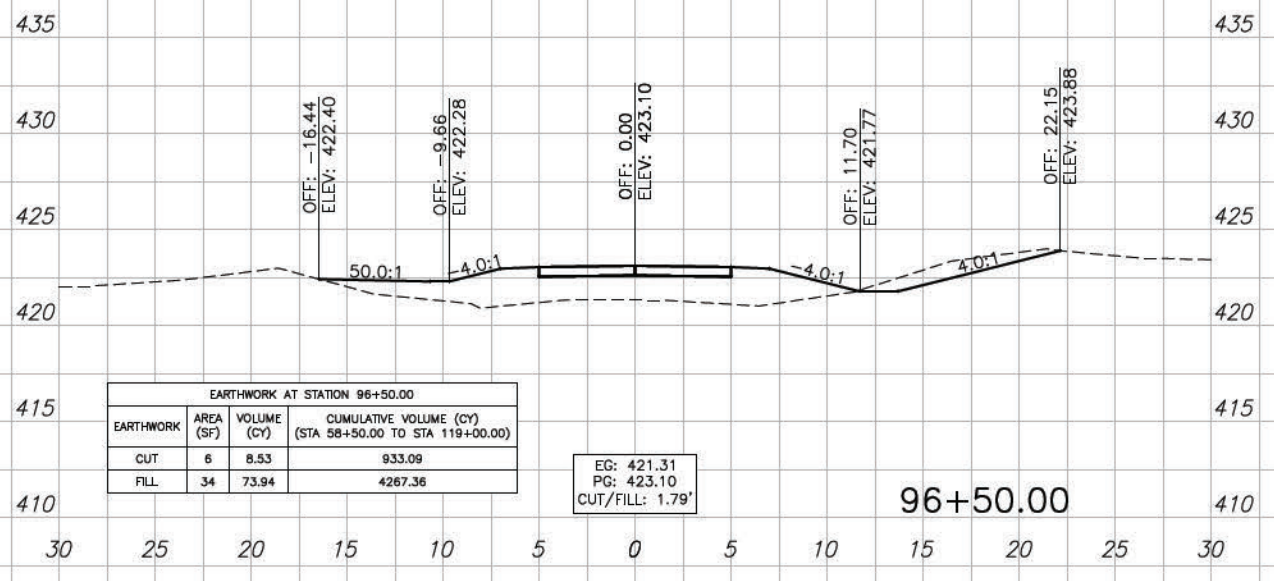
97+00.00



EARTHWORK AT STATION 98+50.00			
EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	3	5.35	950.15
FILL	10	19.80	4412.60

EG: 420.17  
PG: 420.97  
CUT/FILL: 0.79'

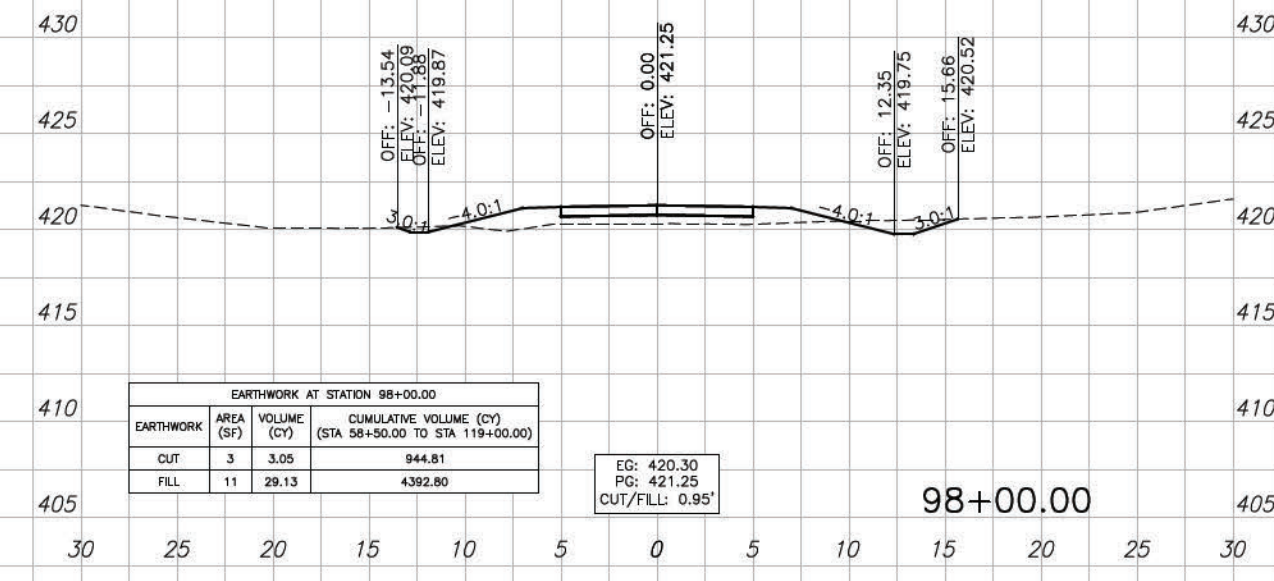
98+50.00



EARTHWORK AT STATION 96+50.00			
EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	6	8.53	933.09
FILL	34	73.94	4267.36

EG: 421.31  
PG: 423.10  
CUT/FILL: 1.79'

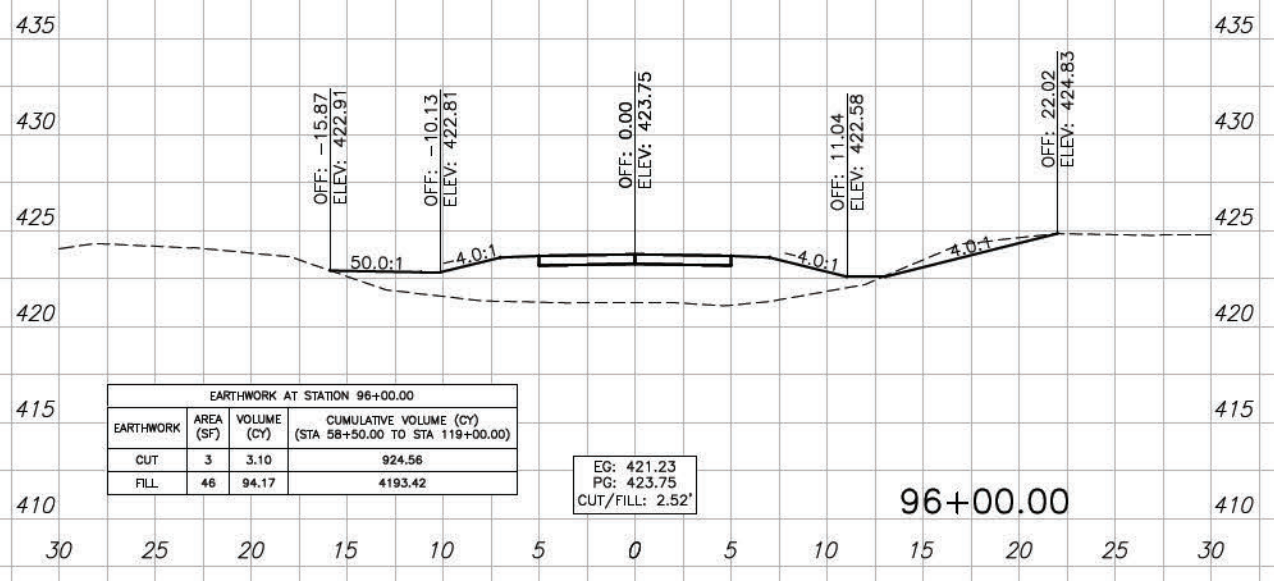
96+50.00



EARTHWORK AT STATION 98+00.00			
EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	3	3.05	944.81
FILL	11	29.13	4392.80

EG: 420.30  
PG: 421.25  
CUT/FILL: 0.95'

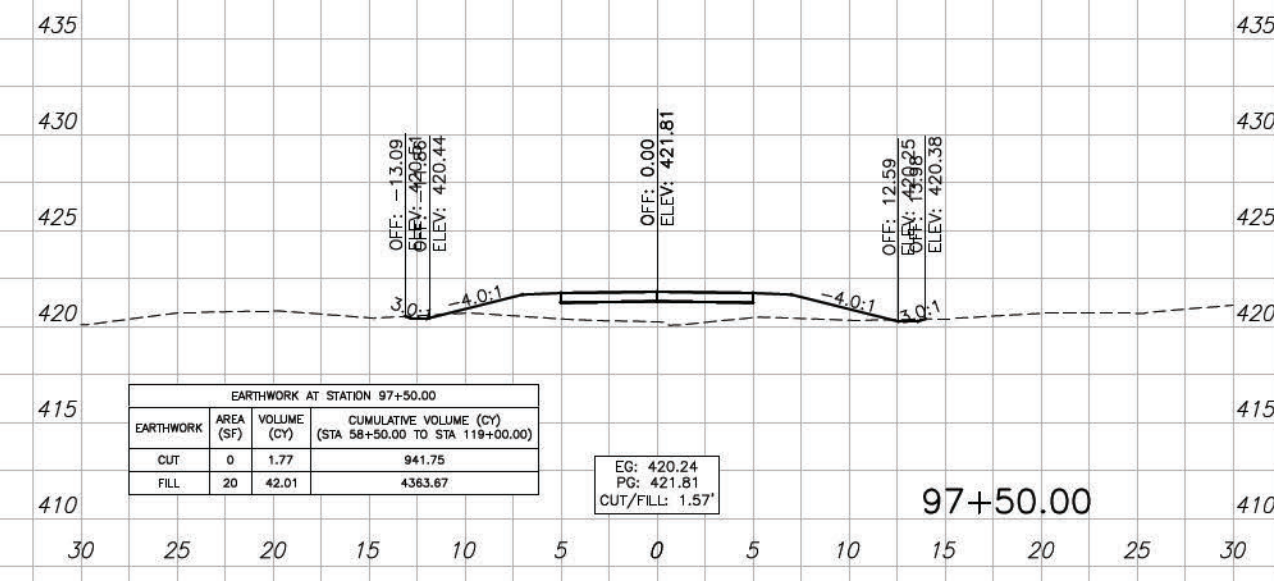
98+00.00



EARTHWORK AT STATION 96+00.00			
EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	3	3.10	924.56
FILL	46	94.17	4193.42

EG: 421.23  
PG: 423.75  
CUT/FILL: 2.52'

96+00.00



EARTHWORK AT STATION 97+50.00			
EARTHWORK	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY) (STA 58+50.00 TO STA 119+00.00)
CUT	0	1.77	941.75
FILL	20	42.01	4363.67

EG: 420.24  
PG: 421.81  
CUT/FILL: 1.57'

97+50.00

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	100	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700

