

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	1
H&S JOB 242106		ILLINOIS	CONTRACT NO. 99761	

04-24-2026 LETTING ITEM 205

CITY OF MARION

# PROPOSED ROADWAY PLANS

**FAU 9638 (MARKET STREET)**  
**SECTION 24-00133-00-SP**  
**HSIP #092241210**  
**FEDERAL PROJECT R8YA(561)**  
**WILLIAMSON COUNTY**

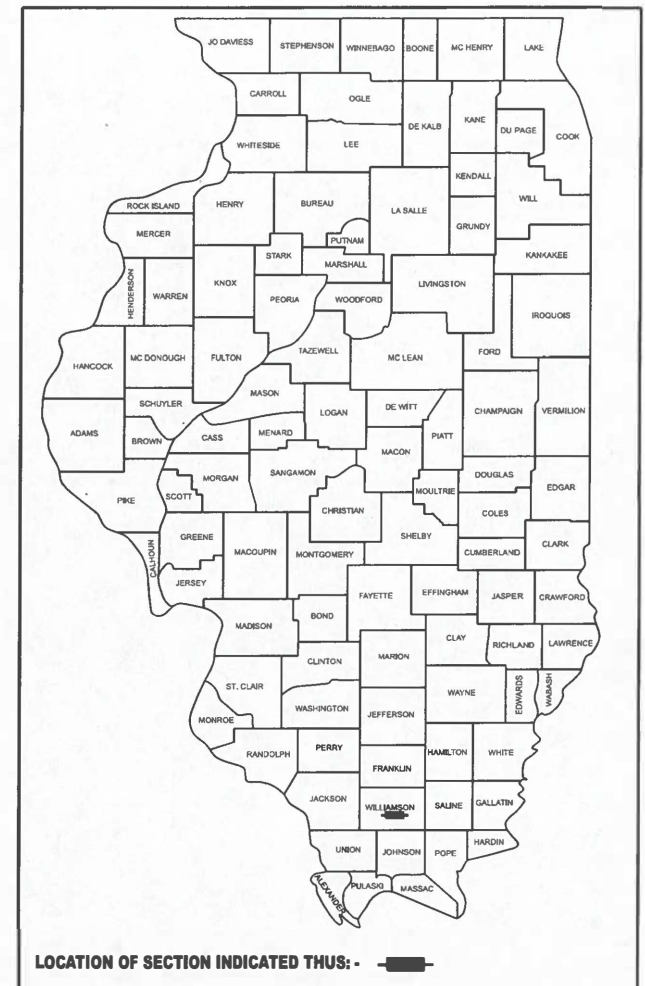
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**FOR INDEX OF SHEETS, SEE SHEET NO. 2**  
**FOR STATE STANDARDS, SEE SHEET NO. 2**

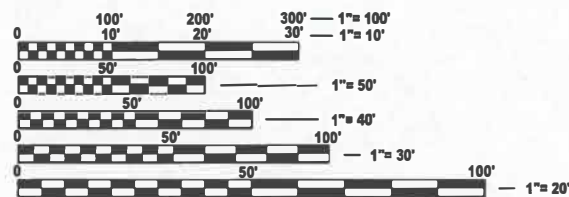
**FUNCTIONAL CLASSIFICATION**

**S. MARKET STREET**  
**CLASSIFICATION: MAJOR COLLECTOR**  
**DESIGN SPEED: 35 MPH**  
**ADT = 3,843 (2025)**



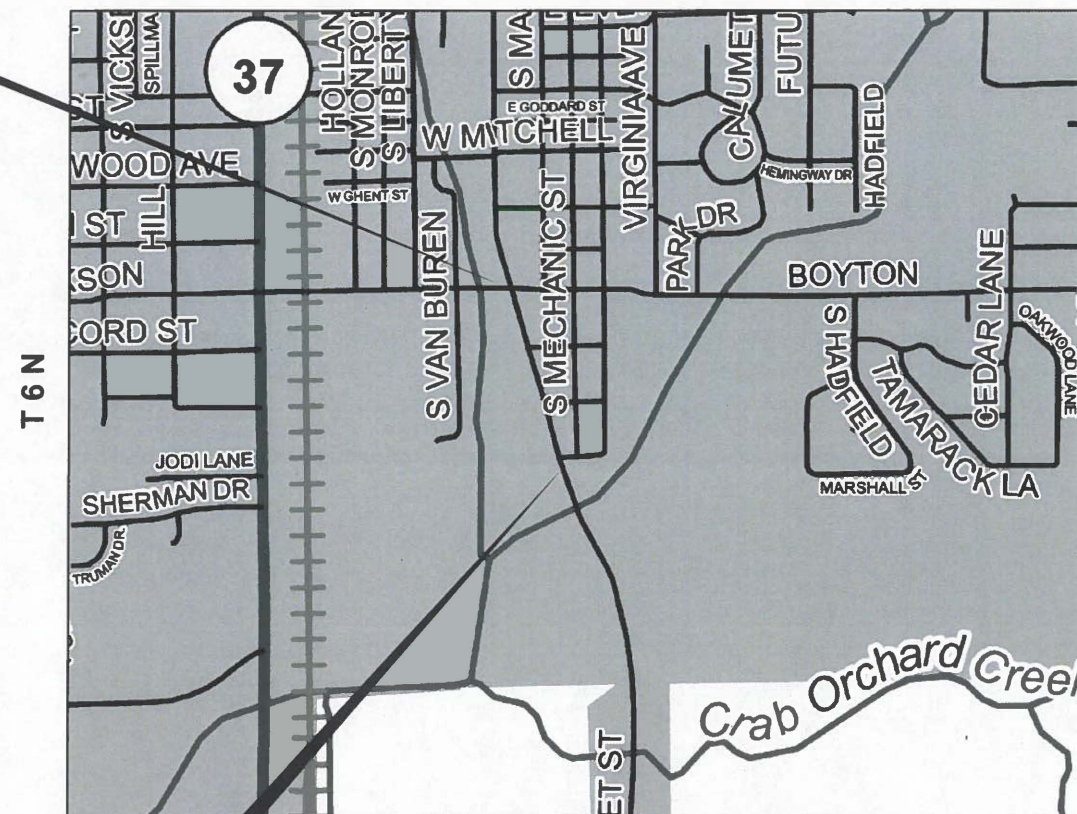
LOCATION OF SECTION INDICATED THUS: -

**PROJECT ENDS**  
**STA 149 + 60.00**  
 LAT 37.722285  
 LONG 88.926766



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**J.U.L.I.E.**  
**JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION**  
 1-800-892-0123  
 OR 811



LOCATION MAP (N.T.S)

**PROJECT BEGINS**  
**STA 137 + 05.45**  
 LAT 37.719038  
 LONG 88.925657

GROSS LENGTH = 1,254.55 FT. = 0.238 MILE  
 NET LENGTH = 1,254.55 FT. = 0.238 MILE

**HORNER SHIFRIN**  
 604 PIERCE BOULEVARD, STE. 300 O'FALLON, IL 62269-2579  
 618-822-3040 • FAX 844-399-2910 • WWW.HORNERSHIFRIN.COM  
 DISCIPLINE: PROFESSIONAL DESIGN FIRM LSI/PS/SE CORPORATION  
 CERTIFICATE OF AUTHORITY: 184.000435  
 EXPIRATION DATE: APRIL 30, 2026

**CONTRACT NO. 99761**

AGENCY RESPONSIBLE FOR LETTING	
APPROVED	<i>Mike Absher</i> 2-5-26 MIKE ABSHER, MAYOR CITY OF MARION
PASSED	2-19-26 DISTRICT 9 ENGINEER OF LOCAL ROADS & STREETS
RELEASED FOR BID BASED ON LIMITED REVIEW	2-17-26 REGION 5 ENGINEER

*Mark O'Brien* 2/19/26  
**MARK O'BRIEN, P.E., P.L.S.**  
 Lic. No. 062-066496 Expires: NOV. 30, 2026

## INDEX OF SHEETS

1	COVER SHEET
2	INDEX, HIGHWAY STANDARDS, COMMITMENTS, GENERAL NOTES
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32	BOX CULVERT GENERAL PLAN ELEVATION
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35	CONCRETE COLLAR & SANITARY STRUCTURE DETAIL & TEMPORARY DITCH CHECKS
36-37	SIDEROAD DETAILS
38	CURB OUTLET DETAIL
39-52	CROSS SECTIONS

## COMMITMENTS

NONE

## HIGHWAY STANDARDS

280001-07  
424001-12  
442101-09  
482001-02  
482011-03  
542001-06  
542301-03  
602301-04  
602306-03  
604001-05  
604066-02  
701001-02  
701006-05  
701301-04  
701306-04  
701326-04  
701501-06  
701801-06  
701901-11  
780001-05  
781001-04  
BLR28-1

## GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDAR SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ADOPTED JANUARY 1, 2022.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 

ALL AGGREGATE.....	2.05 TONS/CU YD
ALL HOT-MIX ASPHALT.....	2.016 TONS/CU YD
RIPRAP.....	1.50 TONS/CU YD
- UNDERGROUND STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND, THEREFORE THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL CONTACT J.U.L.I.E. OPERATOR AT 1-800-892-0123 FOR MARKING OF EXISTING UNDERGROUND UTILITIES. J.U.L.I.E SHOULD BE CONTACTED A MINIMUM OF 96 HORS IN ADVANCE OF CONSTRUCTION. CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR CROSSING OF ANY EXISTING UTILITIES.
- UNLESS MODIFIED BY THE PROJECT SPECIFICATIONS, ALL SITE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIVICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION. HOWEVER, STORM SEWER, SANITARY SEWER AND WATER LINE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS," LATEST EDITION. ALL SITE WORK SHALL COMPLY WITH THE ILLINOIS ACCESSIBILITY CODE.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

ROUTE: FAU 9638 SOUTH MARKET STREET  
SECTION: 24-00133-00-SP  
COUNTY: WILLIAMSON  
DESCRIPTION: NEW PAVEMENT, PAVEMENT OVERLAY & ADDING PAVED SHOULDERS

## MIXTURES TABLE

LOCATIONS	HOT-MIX ASPHALT BINDER COURSE; HOT-MIX ASPHALT SHOULDERS	HOT-MIX ASPHALT SURFACE COURSE; HOT-MIX ASPHALT SHOULDERS TOP LIFT
MIXTURE USES:	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90
PG:	PG 64-22	SBS PG 76-22
MIXTURE COMPOSITION: (GRADATION MIXTURE)	4.0%, 90 GYRATION DESIGN	4.0%, 90 GYRATION DESIGN
FRICTION AGGREGATE	N/A	IL-9.5MM
MIXTURE WEIGHT:	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A
MATERIAL TRANSFER DEVICE (REQUIRED?):	NO	NO

- UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT ARE AS FOLLOWS:

Ameren Illinois - South Nathan Hill 318-301-5305 DCJULIEREQUEST@AMEREN.COM 888-659-4540 Construction Dept.	ELECTRIC GAS	Frontier Nathan Speraneo (copper FIBER) 618-997-0659 nathan.speraneo@ftr.com	City of Marion - Streets Doug Phillips 618-964-0263 street@cityofmarionil.gov	Mediacom Chris McMurtry 618-993-5216 ext 3607 cmcmurtry@mediacomcc.com Daniel Salee 845-768-8074 dsalee@mediacomcc.com	FIBER
Clearwave Communications Marcus Burrel 470-990-1754 marcus.burrell@clearwavefiber.com	FIBER	City of Marion - Water Cliff Hogue 618-579-3237 watermtn@cityofmarionil.gov	WATER		

- FOUR CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED TWO WEEKS PRIOR TO THE CLOSURE REQUIRED TO REPLACE THE BOX CULVERT. THEY SHALL REMAIN IN PLACE FOR THE DURATION OF THE CLOSURE. THE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ALONG THE EAST AND WEST LEG OF BOYTON STREET AND ON MARKET STREET NORTH OF THE PROJECT AND SOUTH OF THE PROJECTS.

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### INDEX OF SHEETS, HIGHWAY STANDARDS, COMMITMENTS & GENERAL NOTES

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	2
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				WILLIAMSON CO 90% STATE 10% LOCAL ROADWAY 0004	URBAN
20100500	TREE REMOVAL ACRES	ACRE	0.1	0.1	
20200100	EARTH EXCAVATION	CU YD	2000	2000	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	179	179	
20800150	TRENCH BACKFILL	CU YD	93	93	
25000210	SEEDING, CLASS 2A	ACRE	1	1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2	2	
25100115	MULCH, METHOD 2	ACRE	1	1	
25100630	EROSION CONTROL BLANKET	SQ YD	1030	1030	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300	
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60	
28000400	PERIMETER EROSION BARRIER	FOOT	676	676	

\* SPECIALTY ITEM



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**SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9538	24-00133-00-SP	WILLIAMSON	52	3
				CONTRACT NO. 99761
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES			
SCALE:	SHEET 2	OF 5	SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	4
CONTRACT NO. 99761				
ILLI-OIS   FED. AID PROJ. ECT				

H&S JOB 242106

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				WILLIAMSON CO	90% STATE 10% LOCAL
				ROADWAY	
				0004	
				URBAN	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	1376	1376	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	106	106	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7333	7333	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1975	1975	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	691	691	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	154	154	
40602990	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90	TON	741	741	
40603209	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90	TON	344	344	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	41	41	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	64	64	
42400800	DETECTABLE WARNINGS	SQ FT	10	10	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	79	79	
44000600	SIDEWALK REMOVAL	SQ FT	98	98	

\* SPECIALTY ITEM

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				WILLIAMSON CO 90% STATE 10% LOCAL ROADWAY 0004	URBAN
44200050	WELDED WIRE REINFORCEMENT	SQ YD	26	26	
44200071	PAVEMENT PATCHING, TYPE IV, 6 INCH	SQ YD	52	52	
44200150	PAVEMENT PATCHING, TYPE IV, 12 INCH	SQ YD	25	25	
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	26	26	
44201298	DOWEL BARS 1 1/4"	EACH	10	10	
44213200	SAW CUTS	FOOT	98	98	
44213204	TIE BARS 3/4"	EACH	20	20	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1558	1558	
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	65	65	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	
54011004	PRECAST CONCRETE BOX CULVERTS 10' X 4'	FOOT	44	44	
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	68	68	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4	

\* SPECIALTY ITEM



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**SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.S. RTE. 9636	SECTION 24-00133-00-SP	COUNTY WILLIAMSON	TOTAL SHEETS 52	SHEET NO. 5
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

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CONSTR. CODE  
 WILLIAMSON CO  
 90% STATE 10% LOCAL  
 ROADWAY  
 0004  
 URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1
54248510	CONCRETE COLLAR	CU YD	0.88	0.88
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	20	20
60237000	INLETS, TYPE A, TYPE 15 FRAME AND LID	EACH	2	2
60240210	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	EACH	1	1
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2
60500060	REMOVING INLETS	EACH	2	2
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	7	7
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	1283	1283
63200310	GUARDRAIL REMOVAL	FOOT	859	859
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	816	816
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	84	84

\* SPECIALTY ITEM



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SUMMARY OF QUANTITIES			
SCALE:	SHEET 4	OF 5 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9538	24-00133-00-SP	WILLIAMSON	52	6
ILLINOIS FED AID PROJECT CONTRACT NO. 99761				

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CONSTR. CODE  
 WILLIAMSON CO  
 98% STATE 10% LOCAL  
 ROADWAY  
 8004  
 URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	114	114
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	38	38
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2612	2612
* 78001150	PAINT PAVEMENT MARKING - LINE 24"	FOOT	11	11
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	32	32
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	32	32
X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	1835	1835
X5400005	BOX CULVERT REMOVAL	FOOT	27	27
X6026057	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME. CLOSED LID	EACH	3	3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1

\* SPECIALTY ITEM



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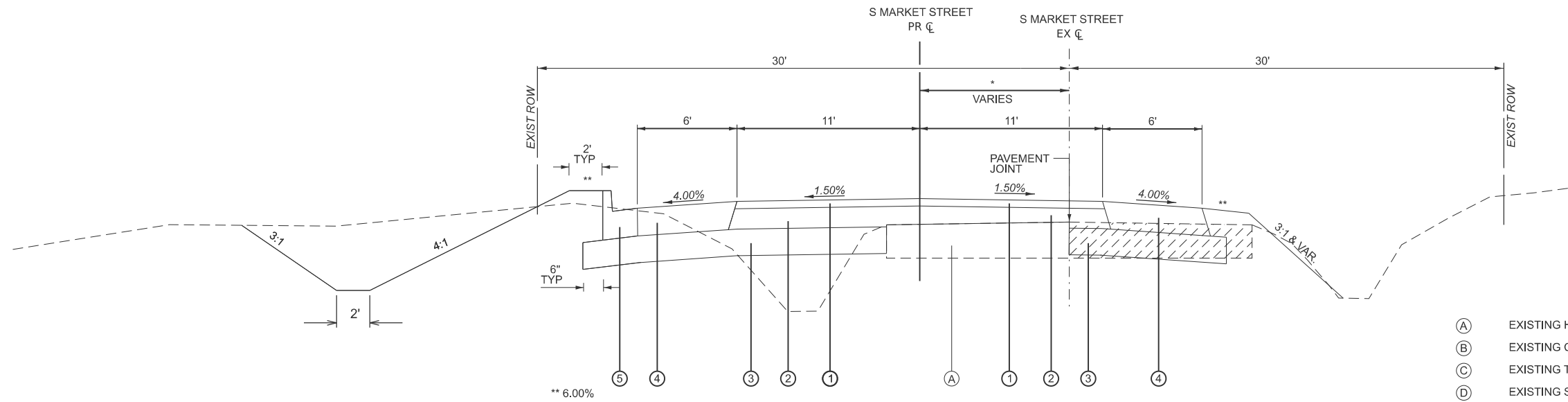


SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	62	7
CONTRACT NO. 99761				



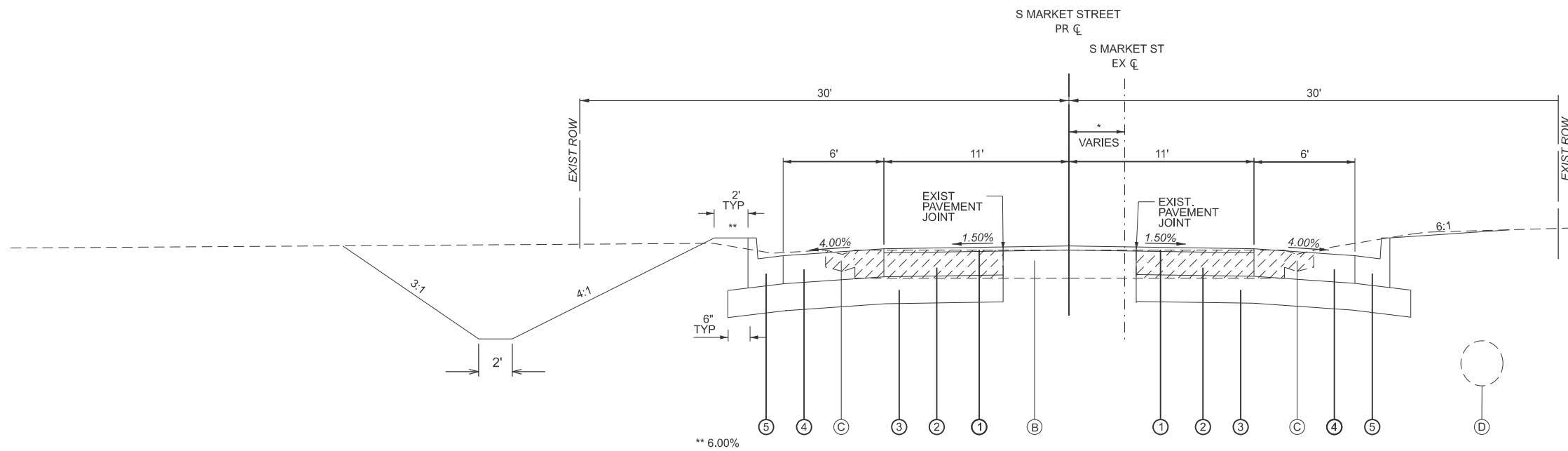


STA 140+75.00 TO STA 145+85.00

\*(PROPOSED C AND EXISTING C OFFSET VARIES 8.81' TO 12.76' TO 9.47')

**LEGEND**

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT
- (B) EXISTING CONCRETE PAVEMENT
- (C) EXISTING TYPE B GUTTER MONOLITHIC WITH PAVEMENT
- (D) EXISTING STORM SEWER
- (1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, 2"
- (2) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90 (VAR. 0" TO 6")
- (3) PROPOSED AGGREGATE BASE COURSE, TYPE B (8")
- (4) PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- (5) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18



STA 145+85.00 TO STA 149+60

\*(PROPOSED C AND EXISTING C OFFSET VARIES 9.47' TO 0')

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**TYPICAL SECTIONS**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	9
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

H&S JOB 242106

**EROSION CONTROL & SEEDING SCHEDULE**

LOCATION	SEEDING CLASS 2A ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	AGRICULTURAL GROUND LIMESTONE TON	MULCH, METHOD 2 ACRE	TEMPORARY EROSION CONTROL SEEDING POUND	EROSION CONTROL BLANKET SQ YD	TEMPORARY DITCH CHECKS FOOT	INLET AND PIPE PROTECTION EACH	PERIMETER EROSION BARRIER FOOT
<b>SOUTH MARKET ST</b>											
137+05 TO 149+60	1	90	90	90	2	1	300				
137+05 TO 149+60 RT										4	676
137+05 TO 138+80 LT								293			
138+00									10		
138+80 TO 145+85 LT								737			
141+00									10		
142+60									10		
143+40									10		
145+00									10		
148+00									10		
<b>SCHEDULE TOTAL</b>	1.00	90.0	90.0	90.0	2.0	1.00	300.0	1030.0	60.0	4	676

**PAVEMENT SCHEDULE**

LOCATION	AGGREGATE BASE COURSE, TYPE B TON	AGGREGATE SURFACE COURSE, TYPE B TON	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SQ YD	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90 TON	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N90 TON	HOT-MIX ASPHALT SHOULDERS, 8" SQ YD	INCIDENTAL HOT-MIX ASPHALT SURFACING TON	BITUMINOUS MATERIALS (PRIME COAT) POUND	BITUMINOUS MATERIALS (TACK COAT) POUND	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) POUND	SHOULDER RUMBLE STRIPS, 8 INCH FOOT	CLASS B PATCHES, TYPE IV, 8 INCH SQ YD	PAVEMENT PATCHING, TYPE IV, 6 INCH SQ YD	PAVEMENT PATCHING, TYPE IV, 12 INCH SQ YD	REMARKS
<b>SOUTH MARKET ST</b>															
STA 137+05 TO 137+45			118												
STA 137+05 TO 138+80	43			81	48	163		231	174	62	216				
STA 138+00 SRR-TEXAS AVE.							9.3								W=16', L=17', R=25'
STA 138+68 FEL		106													W=17', L=15'
STA 138+80 TO 140+75	195			130	53	260		1039	349	122	300				
STA 140+75 TO 145+85	601			347	140	628		3201	865	302	300				
STA 141+85 SRR-LEWIS LANE							11.1								W=16', L=20', R=25'
STA 142+83													52		
STA 143+03														25	
STA 145+82 SRR-BURNSIDE AVE.							14								W=15', L=30', R=25'
STA 145+85 TO 149+60	537			183	103	507		2862	587	205	0				
STA 146+87.5 PER							6								W=16', L=20'
STA 149+20 TO 149+60			36												
STA 149+76 TO 149+91 LT												26			
<b>SCHEDULE TOTAL</b>	1376	106.00	154.00	741.00	344.00	1558.00	40.10	7333.00	1975.00	691.00	816.00	26.00	52.00	25.00	
<b>SCHEDULE PAY</b>	1376	106	154	741	344	1558	41	7333	1975	691	816	26	52	25	

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	CHECKED -	REVISED -
PLOT DATE = 2/19/2026	DATE -	REVISED -



<b>SCHEDULE OF QUANTITIES</b>			
SCALE:	SHEET 1	OF	SHEETS
	STA.	TO STA.	

F.A.U. RTE. 9638	SECTION 24-00133-00-SP	COUNTY WILLIAMSON	TOTAL SHEETS 52	SHEET NO. 10
CONTRACT NO. 99761			ILLINOIS FED. AID PROJECT	

**DRAINAGE SCHEDULE**

LOCATION		PRECAST CONCRETE BOX CULVERTS 10'X4'	BOX CULVERT END SECTIONS CULVERT NO. 1	PIPE CULVERTS, CLASS A, TYPE 1, 15"	STORM SEWERS, CLASS A, TYPE 1, 24"	PRC FLARED END SECTIONS 15"	PRC FLARED END SECTIONS 24"	INLETS, TYPE A, TYPE 15 FRAME AND LID	INLETS, TYPE B, TYPE 1, OPEN LID	INLETS, TYPE B, TYPE 1, CLOSED LID	MANHOLES TO BE ADJUSTED	SANITARY MANHOLES TO BE RECONSTRUCTED	TRENCH BACKFILL	POROUS GRANULAR EMBANKMENT
		FOOT	EACH	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	CU YD	CU YD
<b>SOUTH MARKET ST</b>														
138+06	RT			34		2							3.05	
141+00	LT											1		
141+85	RT			34		2							3.10	
142+09.50	LT											1		
142+83	LT		1											
142+83	CL	44											81.48	128.90
142+83	RT		1											
145+58	RT				8		1						1.97	
145+84	LT											1		
146+41.90	RT				4			1		1			0.45	
149+28	LT & RT										2			
149+50.67	RT								1					
149+56.40	LT				8			1					1.97	
<b>SCHEDULE TOTAL</b>		<b>44.00</b>	<b>2.00</b>	<b>68.00</b>	<b>20.00</b>	<b>4.00</b>	<b>1.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>3.00</b>	<b>92.02</b>	<b>128.90</b>
<b>SCHEDULE PAY</b>		<b>44</b>	<b>2</b>	<b>68</b>	<b>20</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>93</b>	<b>129</b>

**CURB AND GUTTER SCHEDULE**

LOCATION	CLASS SI CONCRETE (OUTLET)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
	CU YD	FOOT
<b>SOUTH MARKET ST</b>		
<b>LEFT</b>		
140+72 TO 141+71		99
141+72	2.12	
141+73 TO 143+99		226
144+00	2.14	
144+01 TO 146+44		243
146+45	1.93	
146+46 TO 149+76		330
146+76 TO		21
<b>RIGHT</b>		
145+94 TO 149+60		364
<b>SUB-TOTAL</b>		
	6.19	1283.00
<b>SCHEDULE PAY</b>		
	7	1283

**EARTHWORK SCHEDULE**

LOCATION STATION TO STATION	EARTH EXCAVATION CU YD	FOR INFORMATION ONLY		
		EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (20%) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
STA 137+05 TO 149+60	1998	1598	958	640
<b>SUB-TOTAL</b>	1998.0			
<b>TOTAL</b>	<b>2000</b>			

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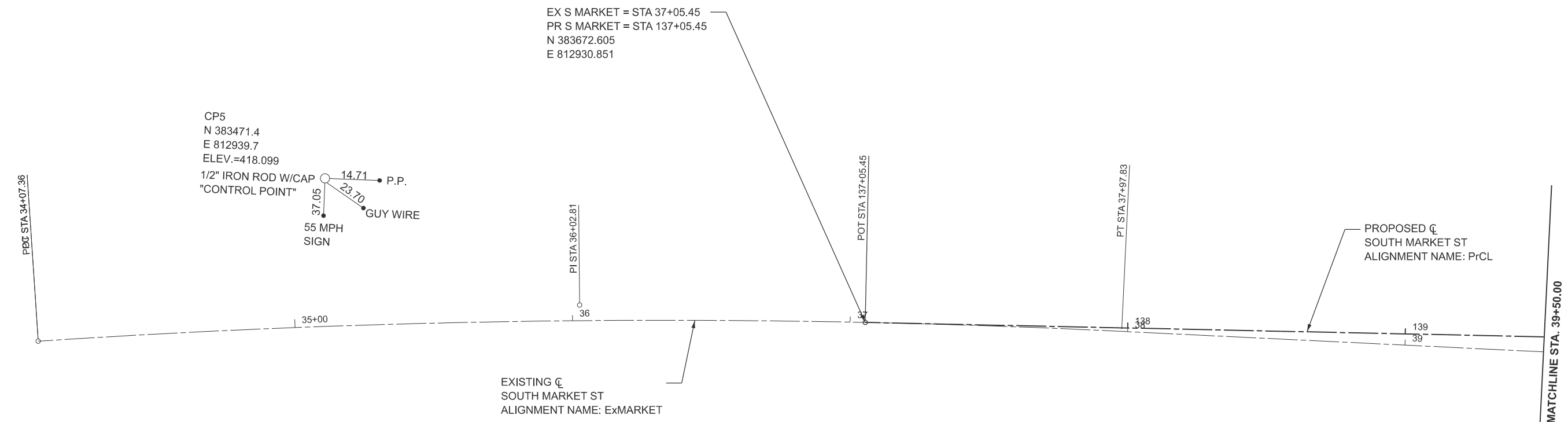


<b>SCHEDULE OF QUANTITIES</b>			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.U. RTE. 9638	SECTION 24-00133-00-SP	COUNTY WILLIAMSON	TOTAL SHEETS 52	SHEET NO. 11
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				







**Alignment Name:** ExMarket  
**Alignment Description:**  
**Alignment Style:** Alignment/GE\_Ex\_Centerline

Station	Northing	Easting
(PC) 34+07.359 R1	383390.40	813026.58
(HPI) 36+02.809 R1	383572.55	812955.72
(CC) 37+97.827 R1	383761.64	812906.25
(PT) 37+97.827 R1	383761.64	812906.25
Radius:	3390.96	
Delta:	06°35'51.299"	Right
Degree of Curvature (Arc):	07°41'22.780"	
Length:	390.47	
Tangent:	195.45	
Chord:	390.25	
Middle Ordinate:	5.62	
External:	5.63	
Back Tangent Direction:	N21°	
Back Radial Direction:	N68°	
Chord Direction:	N17°	
Ahead Radial Direction:	N75°	
Ahead Tangent Direction:	N14°	

Element:	Station	Northing	Easting
Linear	(PT) 37+97.827 R1	383761.64	812906.25
PT	(PT) 37+97.827 R1	383761.64	812906.25
HPI	(HPI) 41+14.317 R1	384067.831	812826.16
Tangential Direction:	N14°		
Tangential Length:	316.49		

Element:	Station	Northing	Easting
Linear	(HPI) 41+14.317 R1	384067.831	812826.16
HPI	(HPI) 41+14.317 R1	384067.831	812826.16
END	(END) 50+00.000 R1	384922.53	812593.95
Tangential Direction:	N15°		
Tangential Length:	885.68		

**EX CURVE**  
 PI STA = 36+02.81  
 Δ = 06°35'51" (RT)  
 D = 01°41'23"  
 R = 3,390.96'  
 T = 195.45'  
 L = 390.47'  
 E = 5.63'  
 e = \_\_\_\_\_  
 PC STA = 34+07.36  
 PT STA = 37+97.83

**Alignment Name:** PrCL  
**Alignment Description:**  
**Alignment Style:** Alignment/GE\_Pr\_Centerline

Station	Northing	Easting
(START) 137+05.450 R1	383672.605	812930.851
(PC) 142+05.909 R1	384153.143	812791.057
Tangential Direction:	N16°13'13.17"W	
Tangential Length:	500.46	

Element:	Station	Northing	Easting
Linear	(PC) 142+05.909 R1	384153.143	812791.057
PC	(PC) 142+05.909 R1	384153.143	812791.057
HPI	(HPI) 143+68.412 R1	384309.178	812745.665
CC	(CC) 145+30.871 R1	384466.928	812706.647
PT	(PT) 145+30.871 R1	384466.928	812706.647
Radius:	8000		
Delta:	02°19'38.535"	Right	
Degree of Curvature (Arc):	00°42'58.310"		
Length:	324.96		
Tangent:	162.5		
Chord:	324.94		
Middle Ordinate:	1.65		
External:	1.65		
Back Tangent Direction:	N16°13'13.17"W		
Back Radial Direction:	N73°46'46.83"E		
Chord Direction:	N15°03'23.90"W		
Ahead Radial Direction:	N76°06'25.36"E		
Ahead Tangent Direction:	N13°53'34.64"W		

Element:	Station	Northing	Easting
Linear	(PT) 145+30.871 R1	384466.928	812706.647
PT	(PT) 145+30.871 R1	384466.928	812706.647
END	(END) 150+00.206 R1	384922.533	812593.955
Tangential Direction:	N13°53'34.64"W		
Tangential Length:	469.33		

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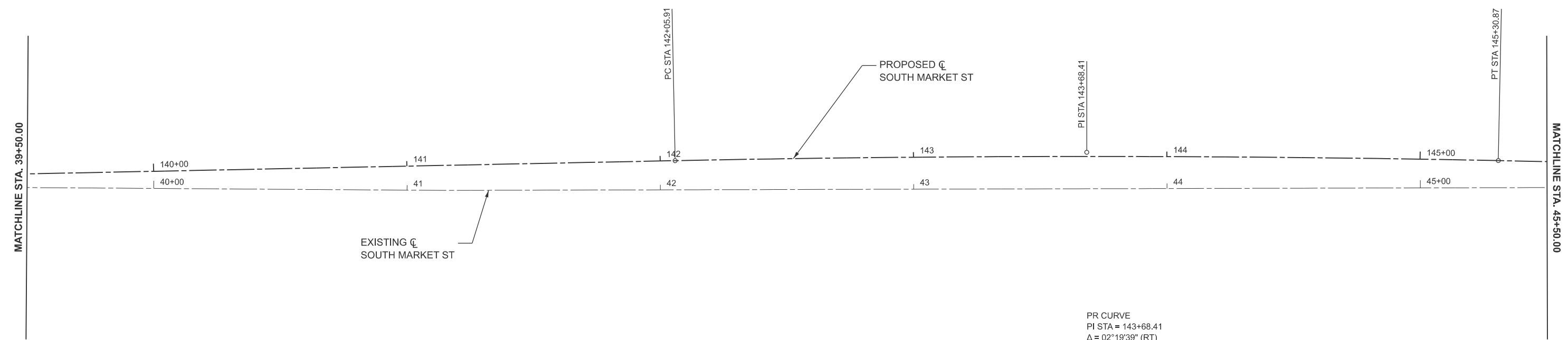
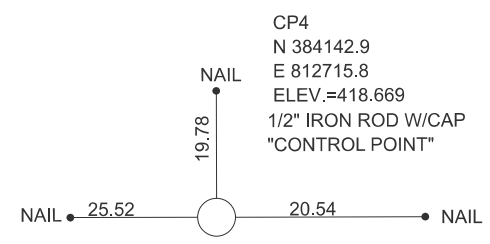
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**COORDINATE DATA**

SCALE: 1"=20' SHEET A001 OF SHEETS STA. 33+50.00 TO STA. 39+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	14
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



PR CURVE  
 PI STA = 143+68.41  
 $\Delta = 02^{\circ}19'39''$  (RT)  
 $D = 00^{\circ}42'58''$   
 $R = 8,000.00'$   
 $T = 162.50'$   
 $L = 324.96'$   
 $E = 1.65'$   
 $e =$   
 $TR =$   
 $SE RUN =$   
 PC STA = 142+05.91  
 PT STA = 145+30.87

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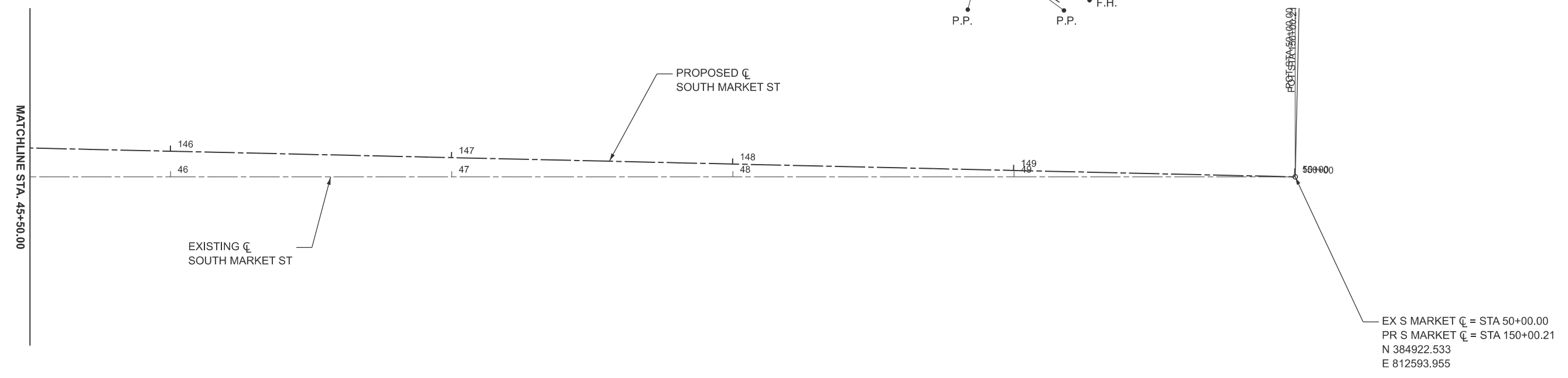
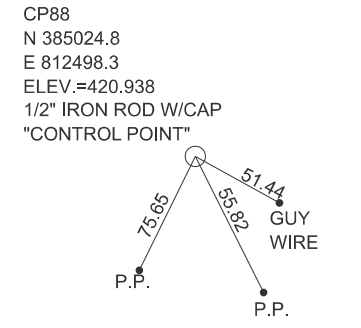
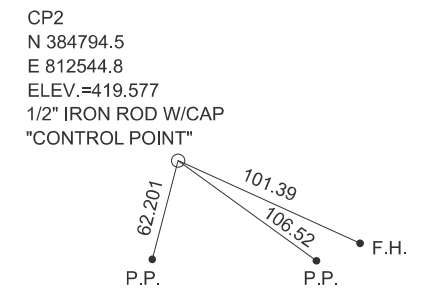
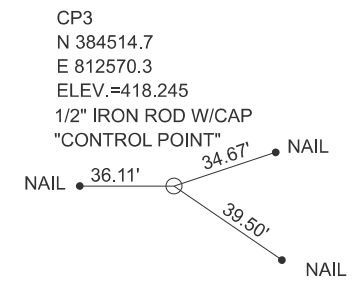


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PLOT DATE = 2/19/2026	DATE -	REVISED -



COORDINATE DATA			
SCALE: 1"=20'	SHEET A002	OF SHEETS	STA. 39+50.00 TO STA. 45+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	15
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



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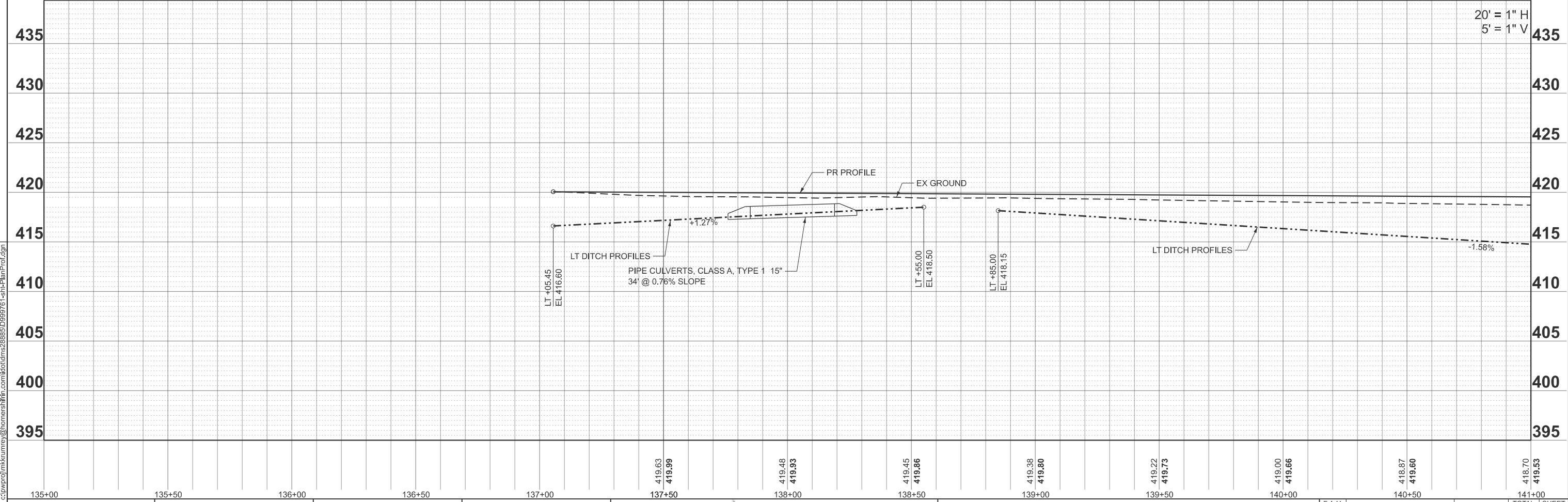
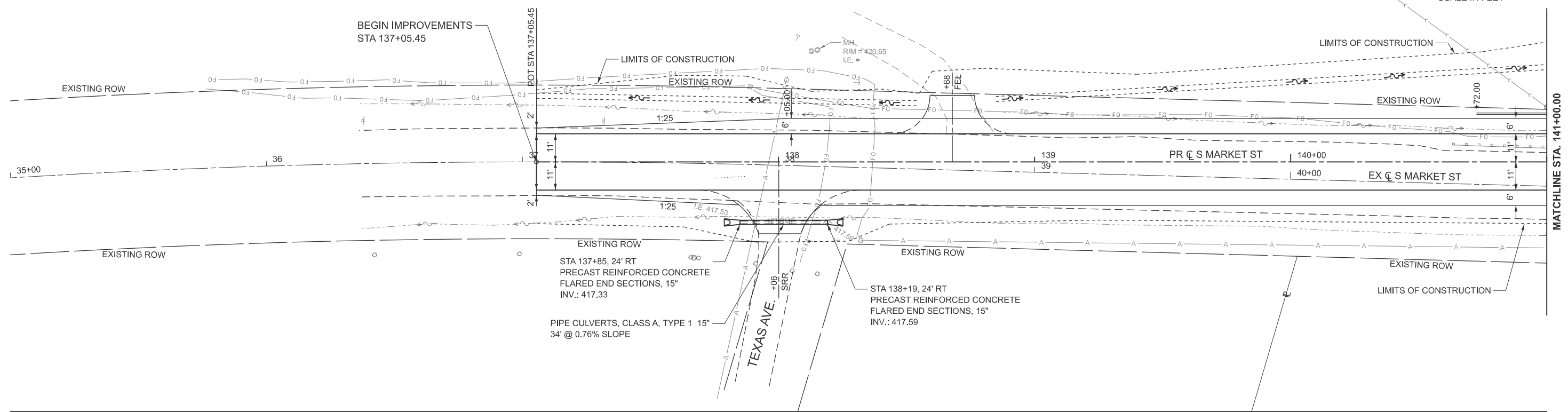
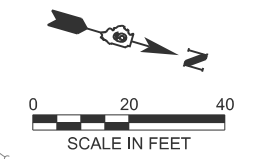


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PLOT DATE = 2/19/2026	DATE -	REVISED -



COORDINATE DATA			
SCALE: 1"=20'	SHEET A003	OF SHEETS	STA. 45+50.00 TO STA. 51+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	16
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



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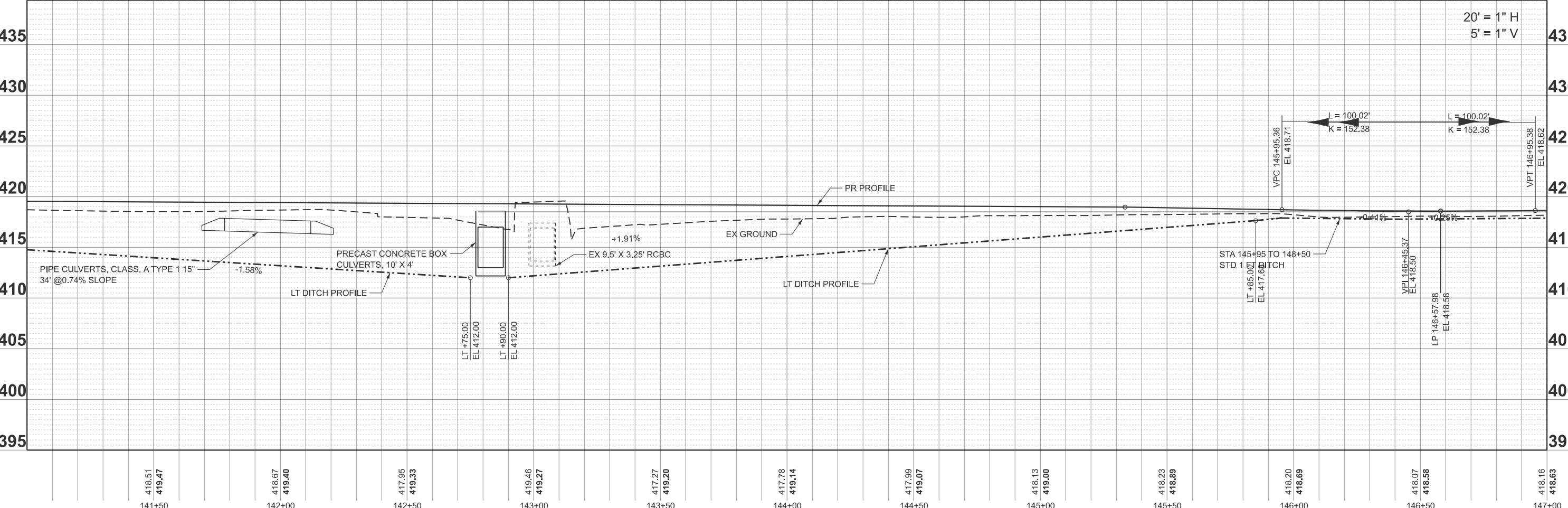
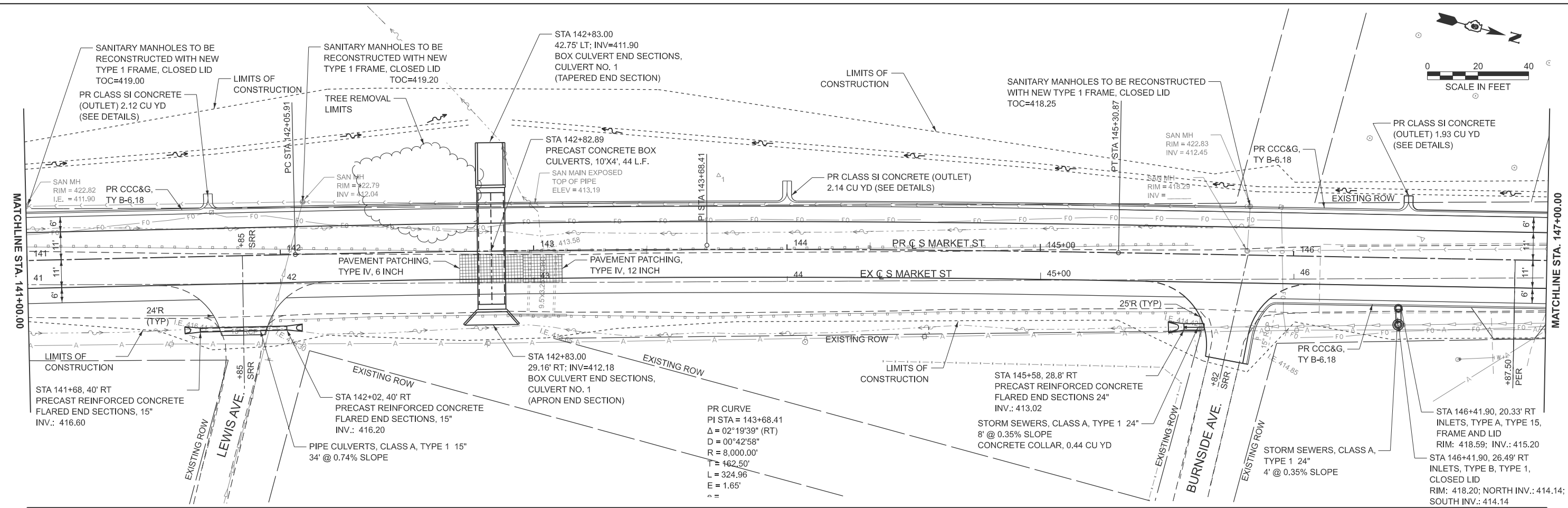
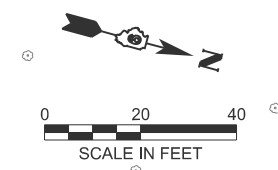
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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



**PLAN & PROFILE SHEETS**  
**SOUTH MARKET STREET**  
 SCALE: 1"=20'  
 SHEET 1 OF 3 SHEETS  
 STA. 135+00.00 TO STA. 141+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	17
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



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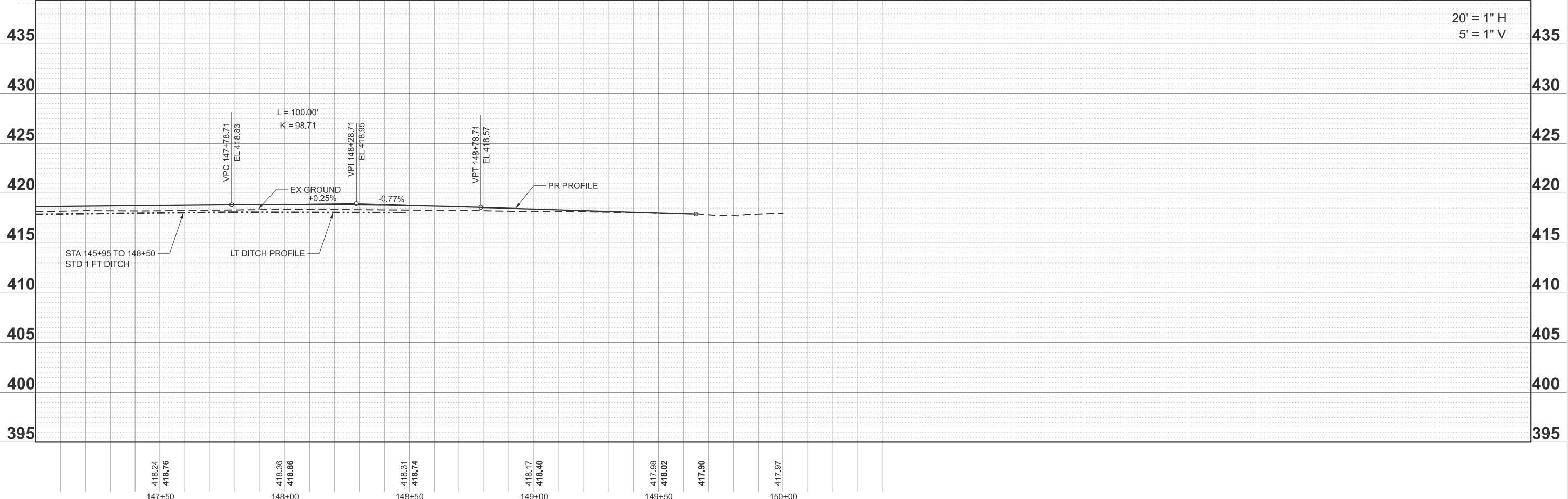
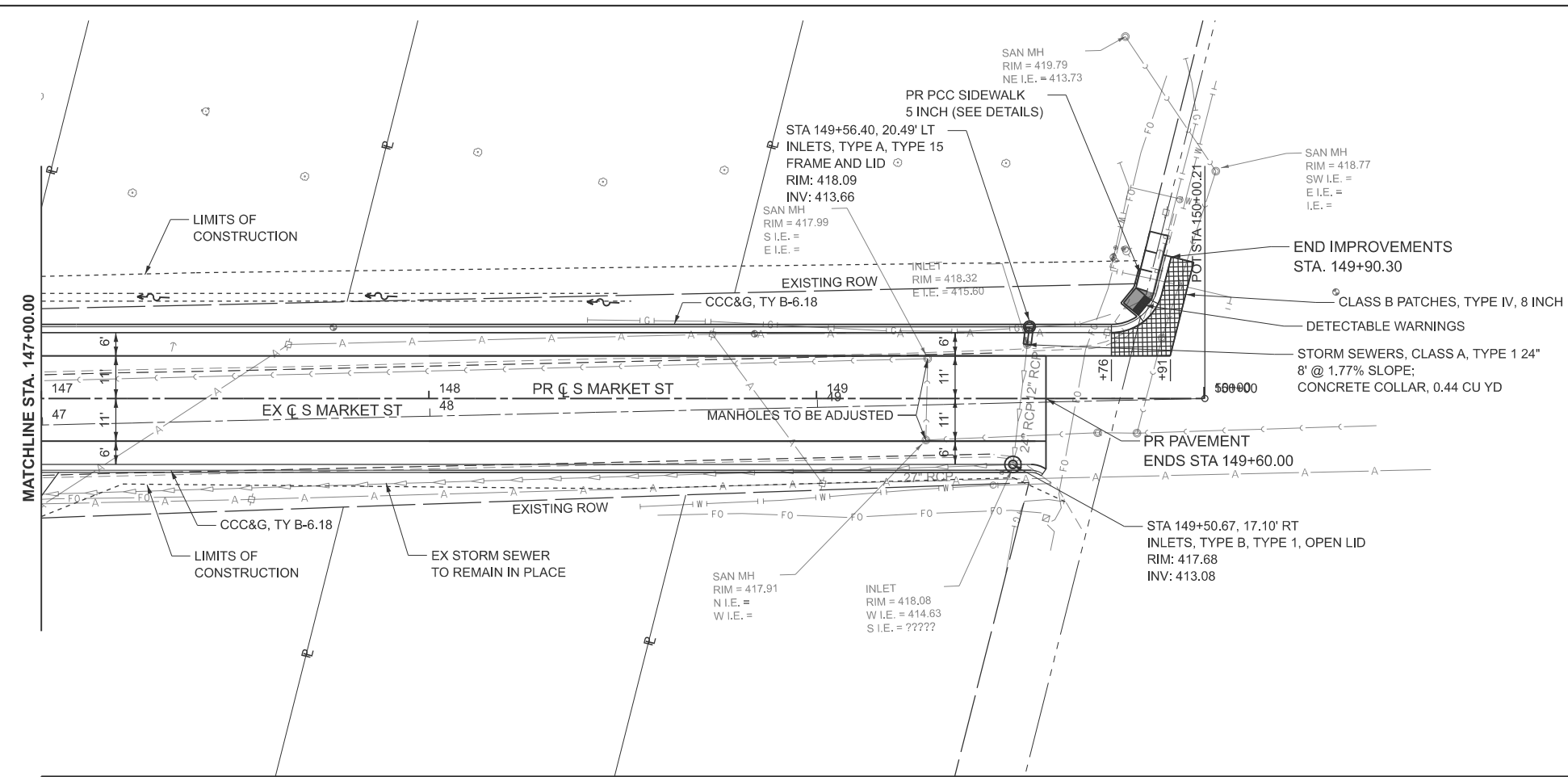
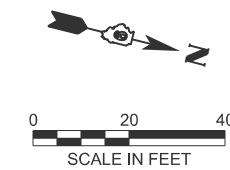
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CHECKED -	REVISED -
DATE -	REVISED -



**PLAN & PROFILE**  
**SOUTH MARKET STREET**  
 SCALE: 1"=20'  
 SHEET 2 OF SHEETS  
 STA. 141+00.00 TO STA. 147+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	18
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



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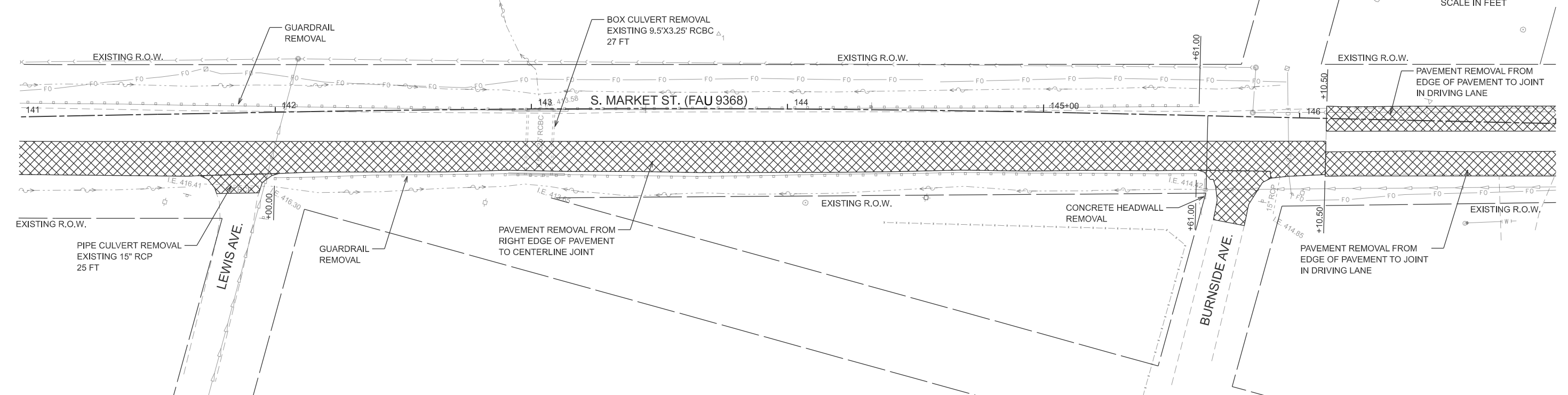
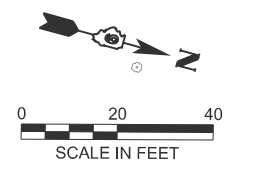
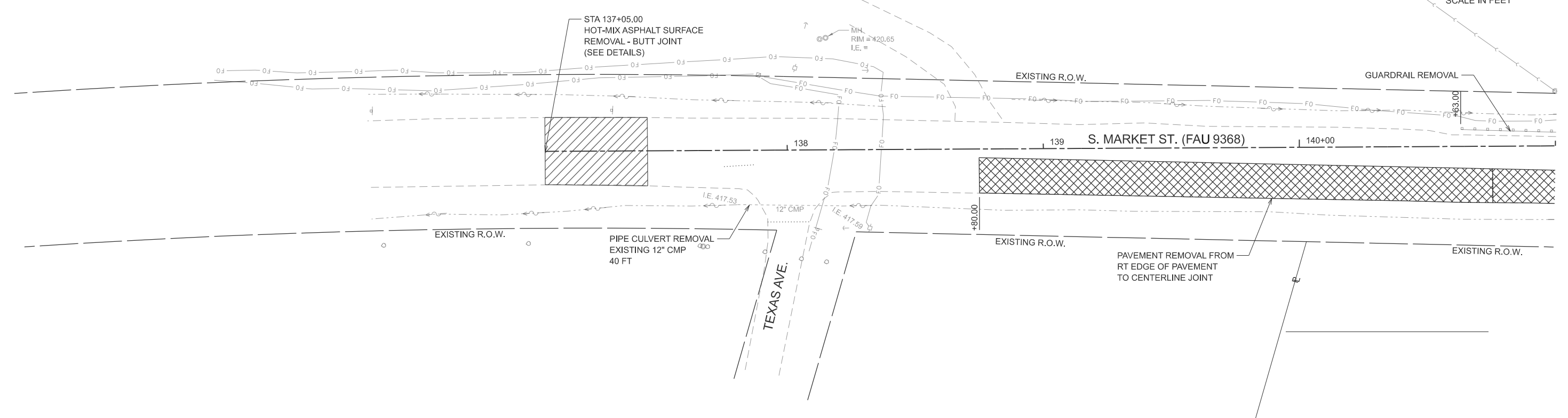
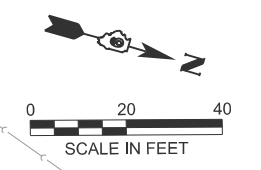
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CHECKED -	REVISED -
DATE -	REVISED -



**PLAN & PROFILE**  
**SOUTH MARKET STREET**  
 SCALE: 1"=20'  
 SHEET 3 OF SHEETS  
 STA. 147+00.00 TO STA. 153+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	19
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



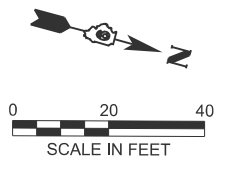
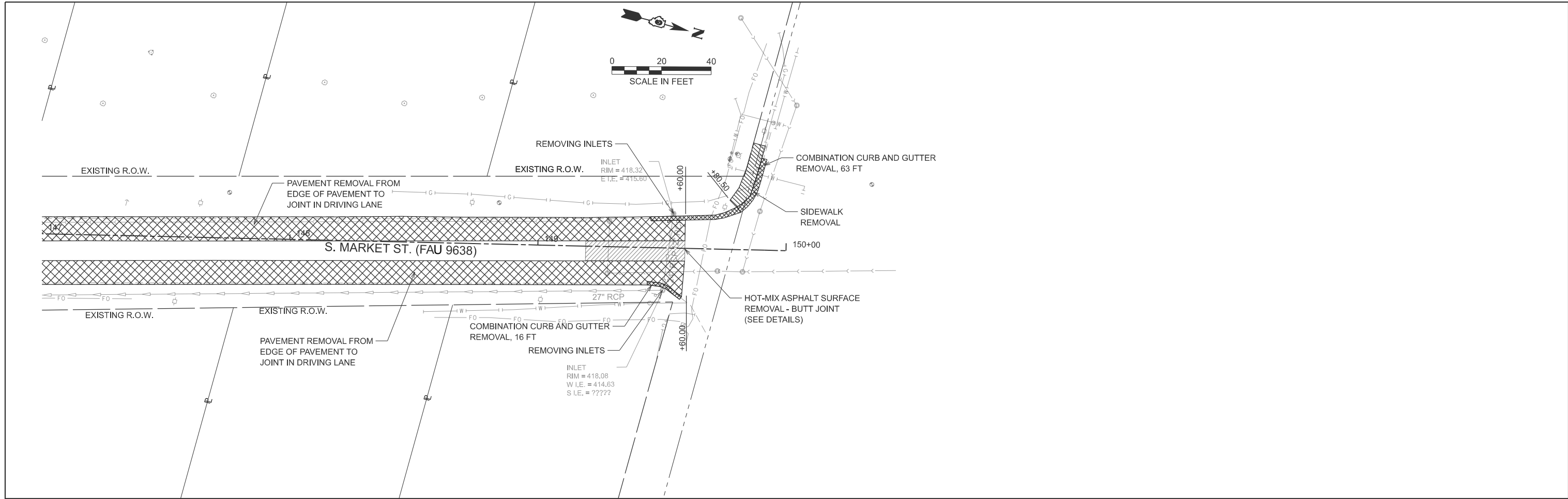
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/5/2026	DATE -	REVISED -



REMOVAL ITEMS			
SCALE: 1"=20'	SHEET A001	OF 2 SHEETS	STA. 35+00.00 TO STA. 47+00.00

F.A.U. RTE. 9638	SECTION 24-00133-00-SP	COUNTY WILLIAMSON	TOTAL SHEETS 52	SHEET NO. 20
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



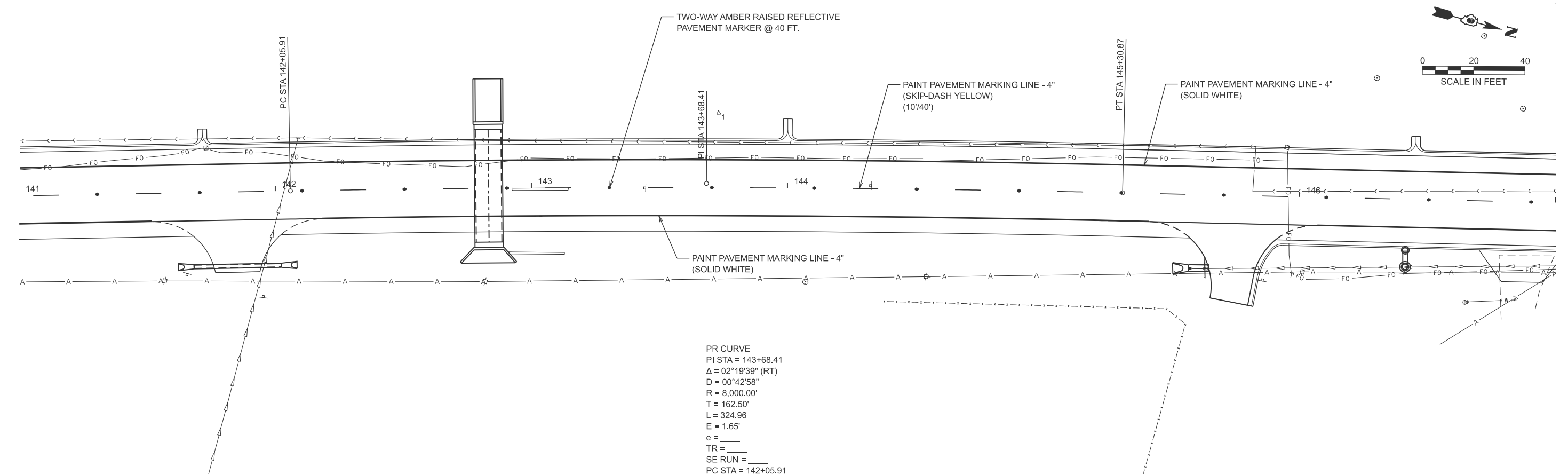
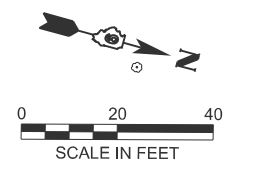
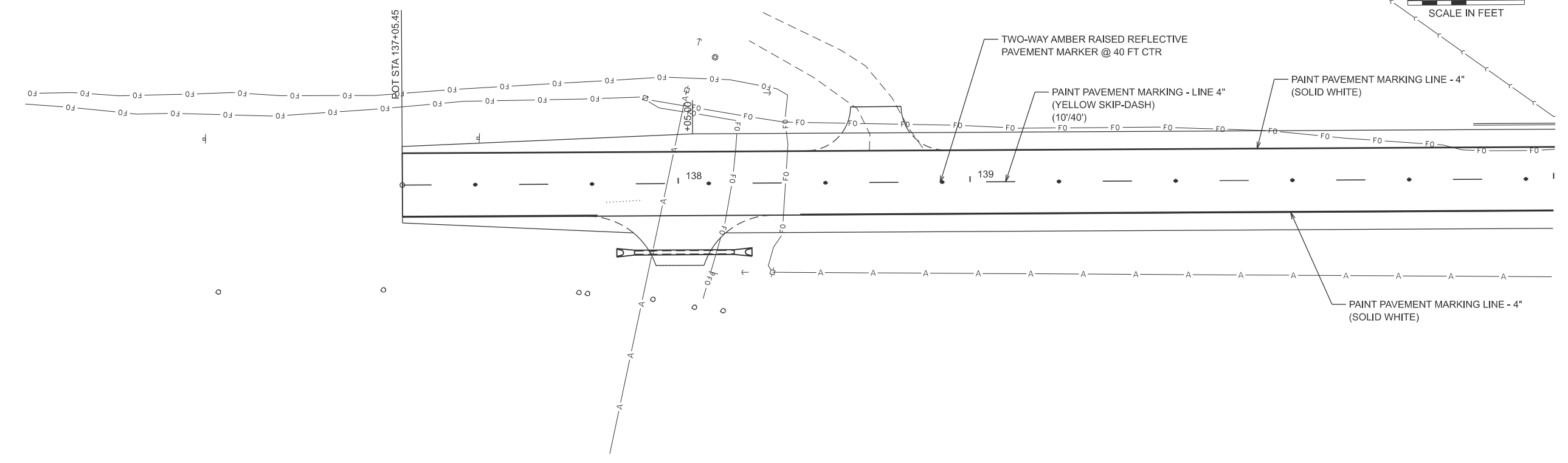
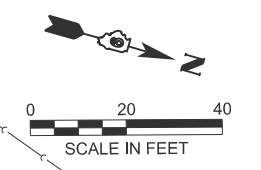
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PLOT DATE = 2/5/2026	DATE -	REVISED -



REMOVAL ITEMS			
SCALE: 1"=20'	SHEET A002 OF 2 SHEETS	STA. 47+00.00	TO STA. 53+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	21
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



PR CURVE  
 PI STA = 143+68.41  
 $\Delta = 02^\circ 19' 39''$  (RT)  
 $D = 00^\circ 42' 58''$   
 $R = 8,000.00'$   
 $T = 162.50'$   
 $L = 324.96'$   
 $E = 1.65'$   
 $e =$   
 $TR =$   
 $SE RUN =$   
 PC STA = 142+05.91

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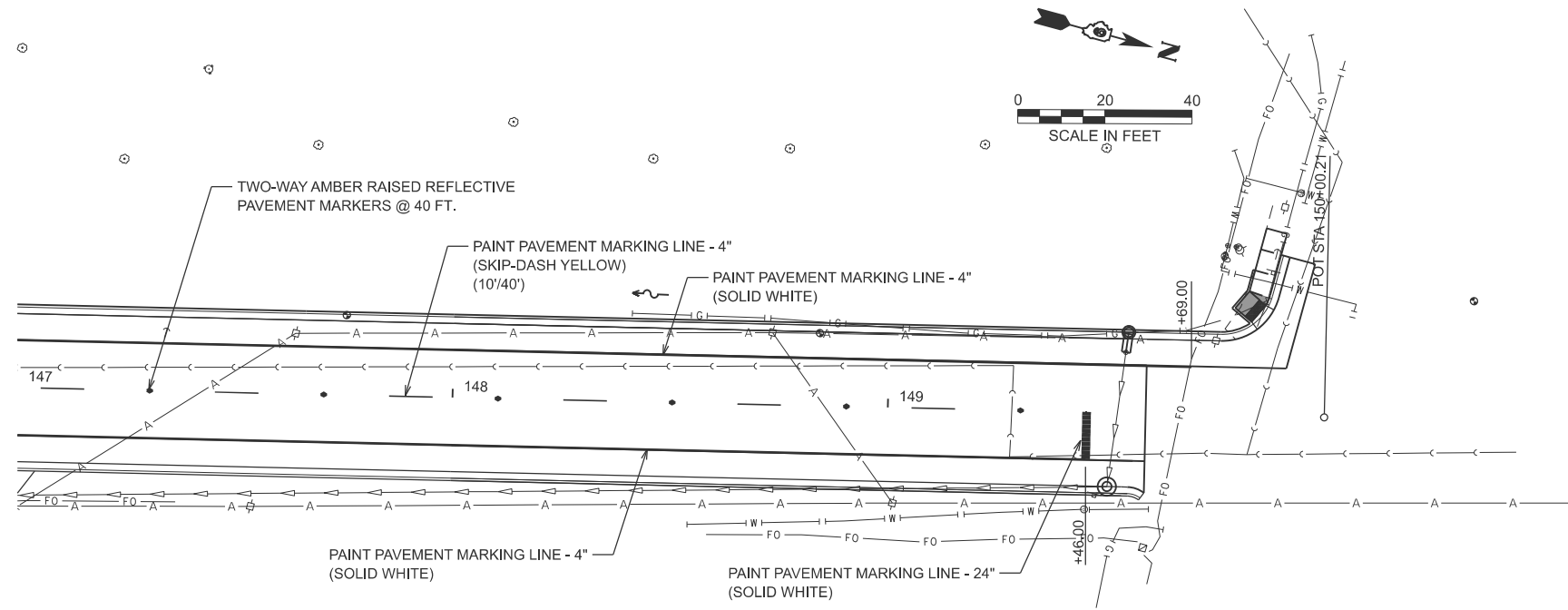
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**PAVEMENT MARKING PLAN  
 SOUTH MARKET STREET**

SCALE: 1"=20' SHEET A001 OF 2 SHEETS STA. 35+00.00 TO STA. 47+00.00

F.A.U. RTE. 9638	SECTION 24-00133-00-SP	COUNTY WILLIAMSON	TOTAL SHEETS 52	SHEET NO. 22
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



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**PAVEMENT MARKING PLAN  
 SOUTH MARKET STREET**

SCALE: 1"=20' SHEET A002 OF 2 SHEETS STA. 47+00.00 TO STA. 53+00.00

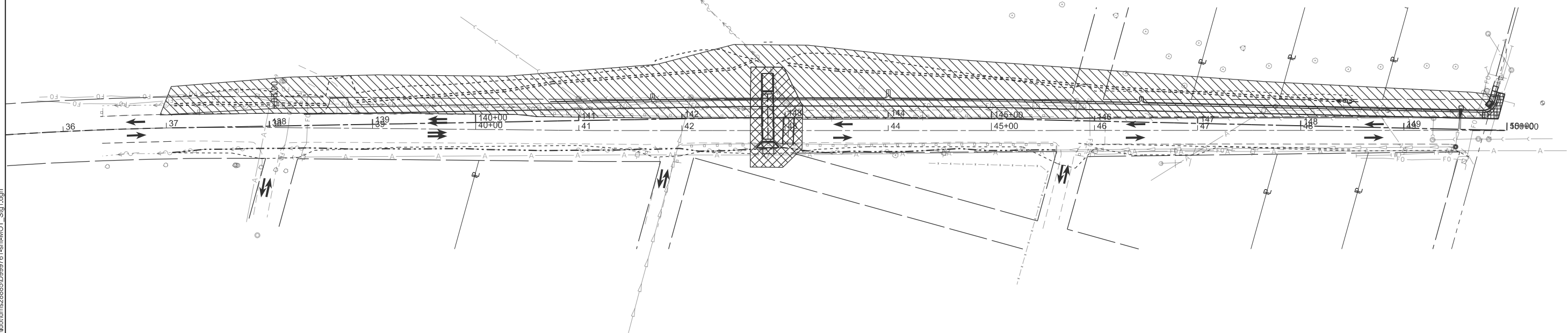
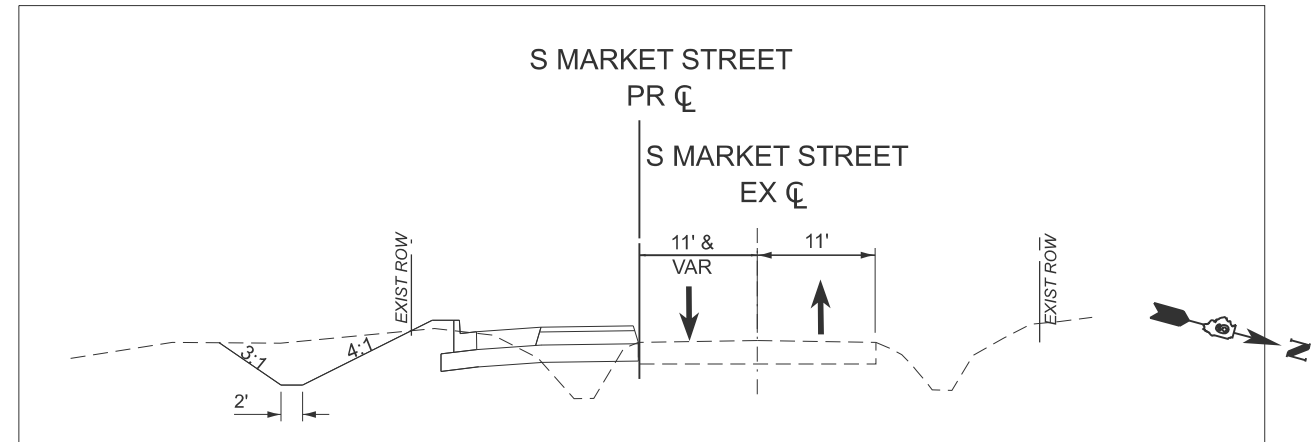
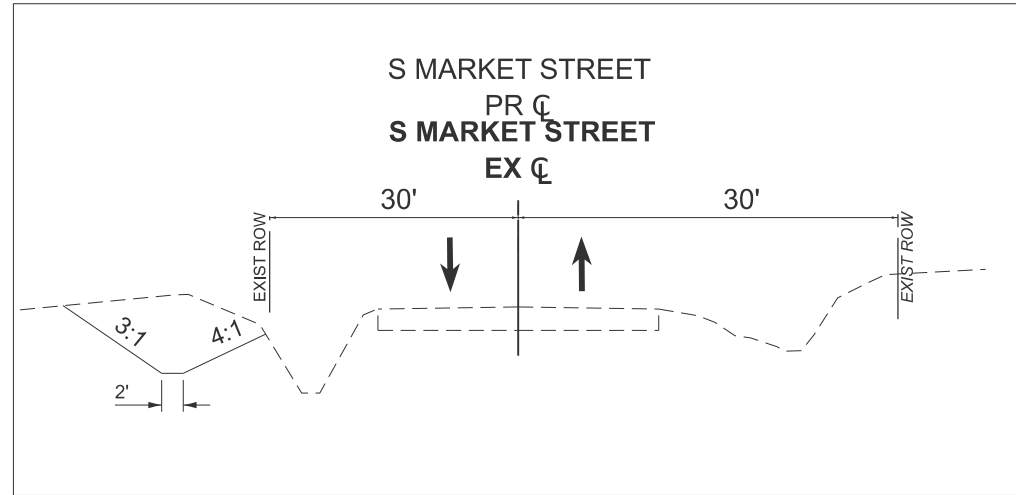
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9638	24-00133-00-SP	WILLIAMSON	52	23
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

**PRE-STAGE CONSTRUCTION NOTES**

1. SETUP TRAFFIC CONTROL AND PROTECTION.  
701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY  
701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
2. BEGIN REQUIRED CLEARING AND TOPSOIL STRIPING AND STOCK PILING.
3. INSTALL PERIMETER EROSION BARRIER AND OTHER EROSION CONTROL ITEMS.
4. REMOVE STEEL PLATE BEAM GUARDRAIL ON WEST SIDE.
5. ADJUST SANITARY MANHOLES TO PROPOSED ELEVATIONS
6. BEGIN EARTH EXCAVATION FOR PROPOSED LEFT DITCH.

**STAGE 1 CONSTRUCTION NOTES**

1. SETUP TRAFFIC CONTROL AND PROTECTION.  
701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY  
701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE  
701301-04 LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS  
701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED  
701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
2. REMOVE EXISTING BOX CULVERT AND SET PROPOSED REINFORCED CONCRETE BOX CULVERT. CONTRACTOR WILL BE ALLOWED TO CLOSE ROAD FOR NO MORE THAN 7 DAYS TO COMPLETE THIS WORK. SEE SPECIAL PROVISIONS FOR MORE INFORMATION.
3. COMPLETE GRADING AND SHAPING OF LEFT DITCH.
4. PLACE EMBANKMENT AND CONSTRUCT SOUTH BOUND SHOULDER, CURB & GUTTER, AND DRIVING LANE IN PREPARATION FOR STAGE 2 TRAFFIC.
5. CONSTRUCT PROPOSED CURB RAMP AT SOUTH WEST QUADRANT OF BOYTON STREET AND SOUTH MARKET STREET INTERSECTION.



STAGE 1 WORK AREA



STAGE 1 WORK AREA  
(UNDER 7 DAY CLOSURE)

MODEL: Stage1 [Sheet]  
FILE NAME: c:\p\p0\mkkrumrey@homereshfrin.com\dot\ms2885\99761-shh-MOT\_Sig1.dgn



USER NAME = mikkrumrey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/19/2026	DATE -	REVISED -



**MAINTENANCE OF TRAFFIC  
STAGE 1**

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	24
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

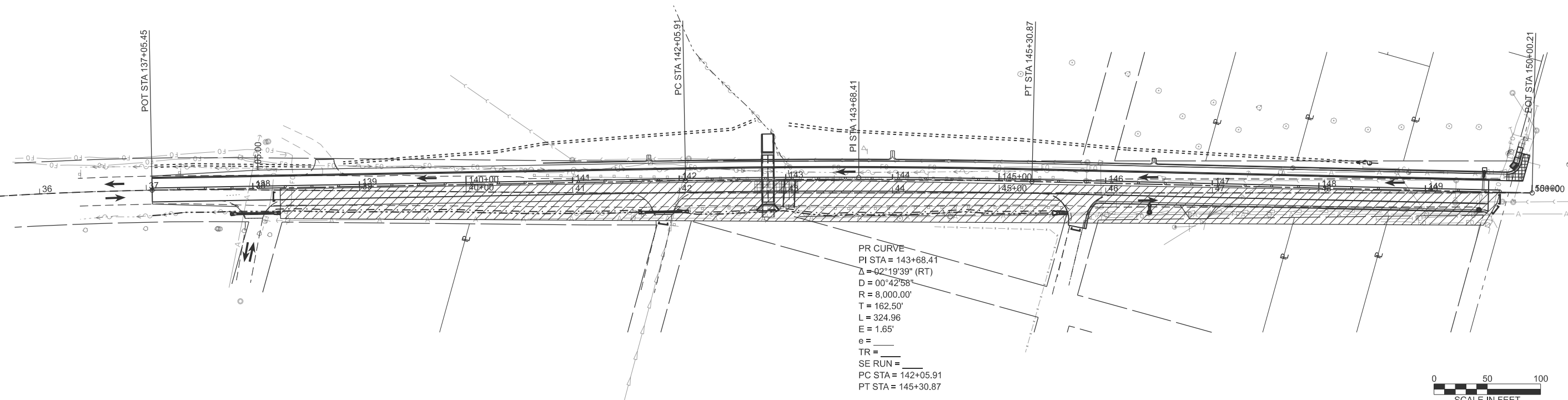
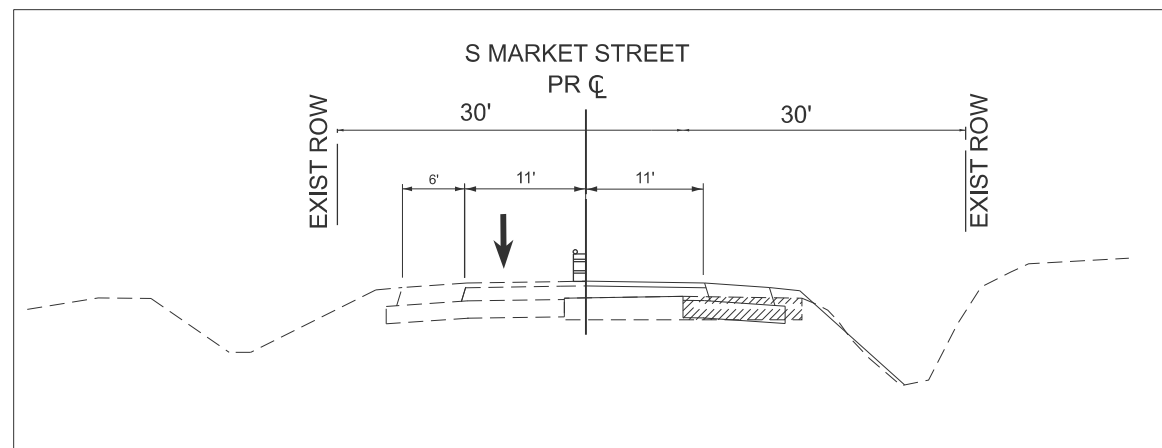
H&S JOB 242106

**STAGE 2 CONSTRUCTION NOTES**

1. SETUP TRAFFIC CONTROL AND PROTECTION.  
 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY  
 701006-05 OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24: FROM PAVEMENT EDGE  
 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS  
 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED  
 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
2. ALLOW SOUTH BOUND TRAFFIC TO USE NEW LANES.
3. CLOSE EXISTING NORTH BOUND LANE AT TEXAS AVENUE TO BOYTON STREET FOR STAGE 2 CONSTRUCTION ACTIVITIES.
4. CONSTRUCT NORTH BOUND PROPOSED LANES, STORM SEWER, REMOVE STEEL PLATE BEAM GUARDRAIL ON EAST SIDE, CONSTRUCT PRIVATE ENTRANCES AND GRADE AND SHAPE RIGHT DITCHES.

**STAGE 3 CONSTRUCTION NOTES**

1. SETUP TRAFFIC CONTROL AND PROTECTION.  
 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY  
 701006-05 OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24: FROM PAVEMENT EDGE  
 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS



MODEL: Stage 2 (Sheet)  
 FILE NAME: c:\p\p\p\mkkrumrey@homereshfrin.com\dot\m\2885\999761-shh-MOT\_Sig2.dgn

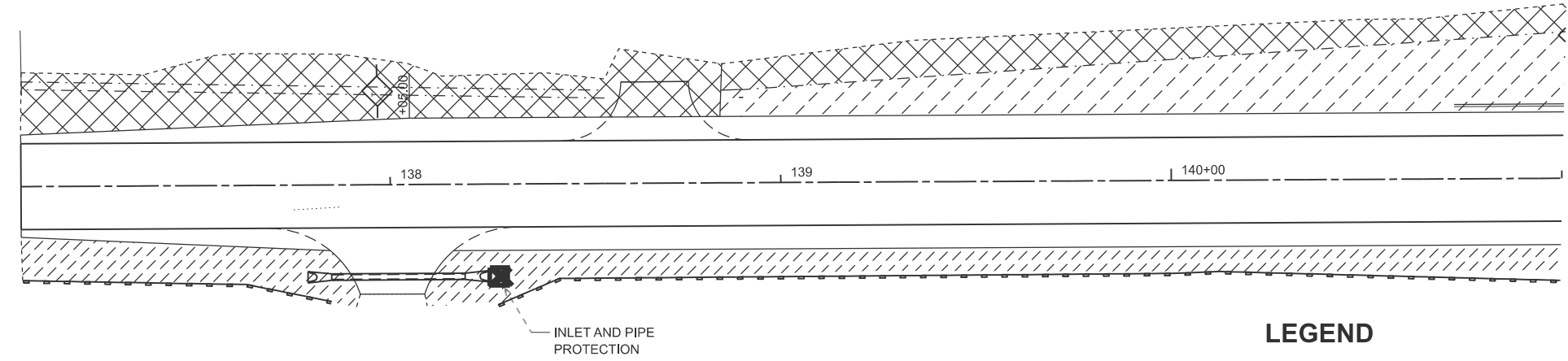
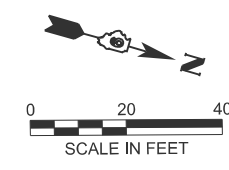


USER NAME =	mikkrumrey	DESIGNED -		REVISED -	
		DRAWN -		REVISED -	
		CHECKED -		REVISED -	
PLOT DATE =	2/19/2026	DATE -		REVISED -	







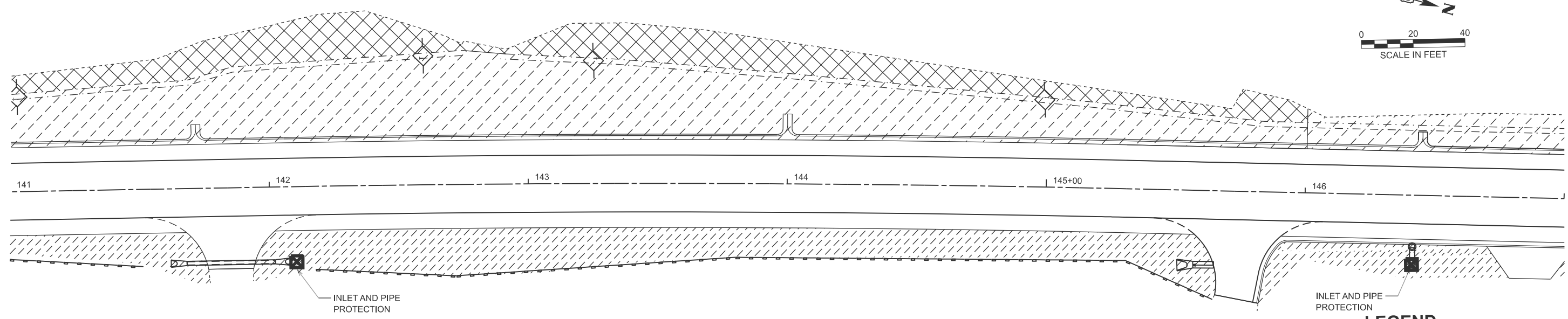
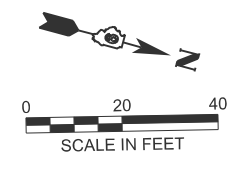
<b>MAINTENANCE OF TRAFFIC STAGE 2</b>			
SCALE:	SHEET 2	OF	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	25
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				







**LEGEND**

-  SEEDING & MULCH
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  DITCH CHECK



**LEGEND**

-  SEEDING & MULCH
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  DITCH CHECK

MODEL: ExMarket - Eros - 1 [Sheet]  
FILE NAME: c:\p\p\p\mkrumrey@homerchfrn.com\dot\m2885\099976-shr-Eros.dgn

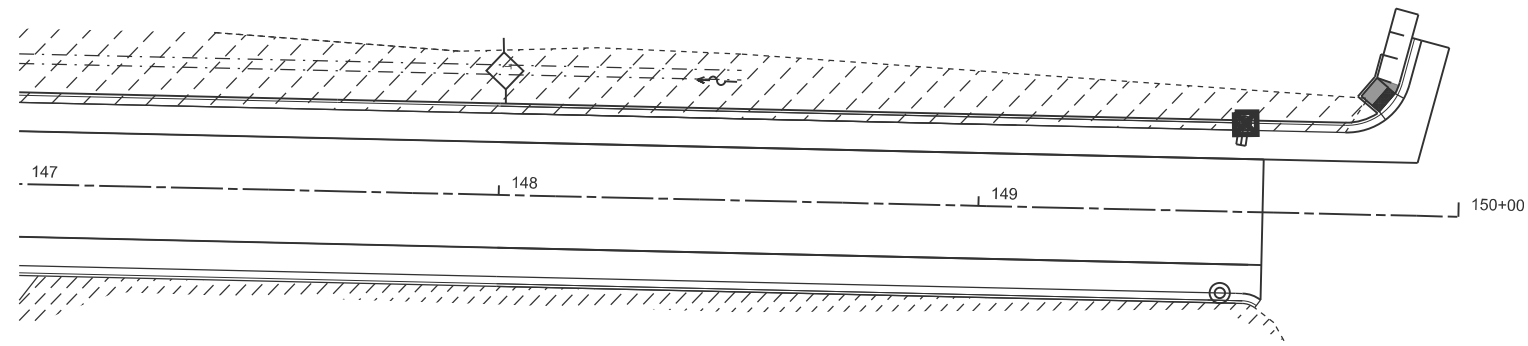
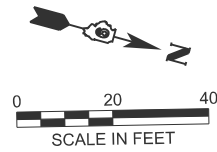
USER NAME = mkrumrey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/5/2026	DATE -	REVISED -







**EROSION CONTROL PLAN  
SOUTH MARKET STREET**

SCALE: 1"=20'    SHEET 1 OF 2 SHEETS    STA. 35+00.00 TO STA. 47+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	26
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SEEDING & MULCH
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  DITCH CHECK

MODEL: ExMarket - Eros 3 [Sheet]  
 FILE NAME: c:\p\p\p\mkrumrey@homerhfrn.com\dot\ms2885\099761-shr-Eros.dgn

USER NAME = mkrumrey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/5/2026	DATE -	REVISED -

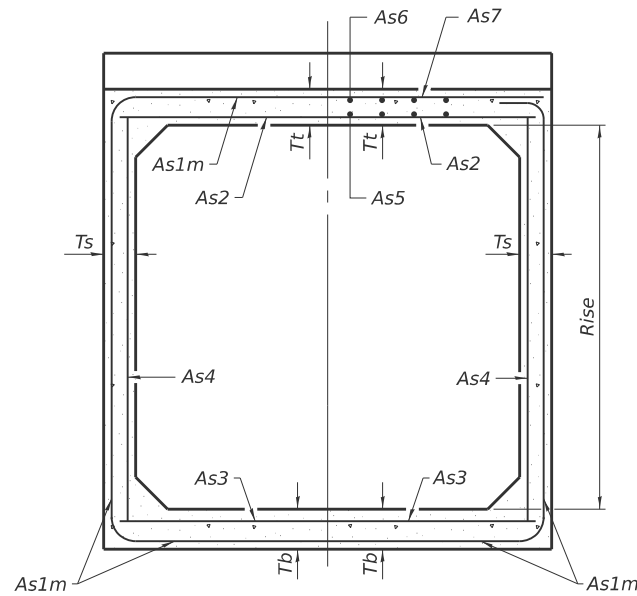


**EROSION CONTROL PLAN  
SOUTH MARKET STREET**

SCALE: 1"=20'    SHEET 2    OF 2    SHEETS    STA. 47+00.00    TO STA. 53+00.00

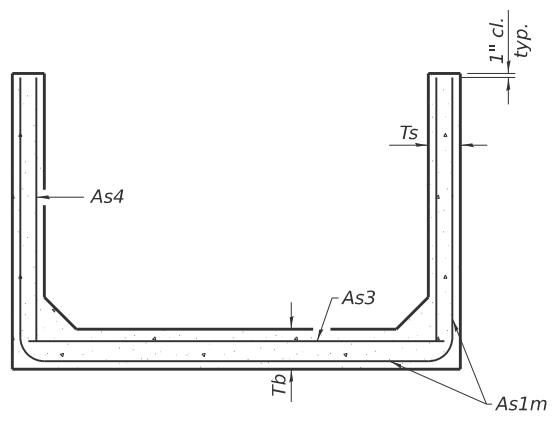
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	27
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



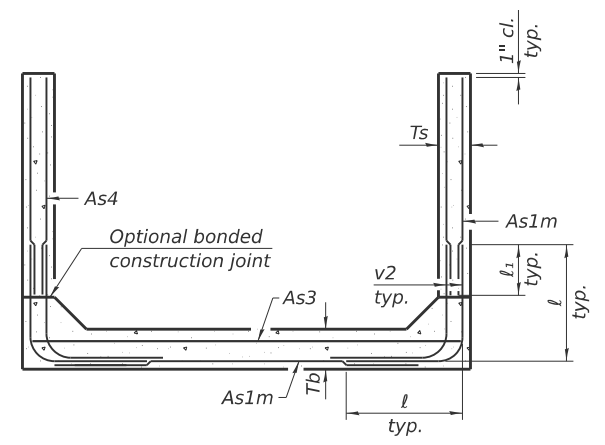


**SECTION C-C**

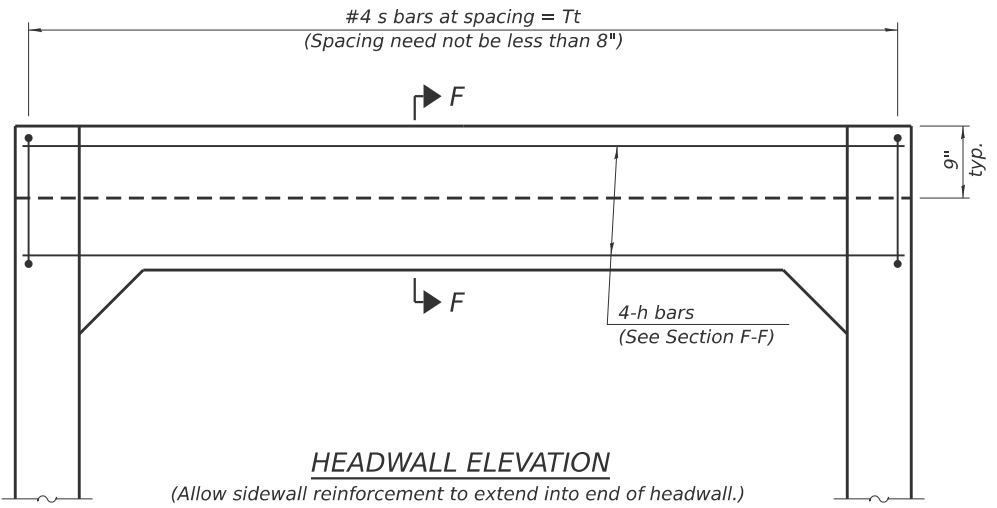
(Design Earth Cover ≥ 2 ft) (Design Earth Cover < 2 ft)



**SECTION D-D**



**ALTERNATE SECTION D-D**



**HEADWALL ELEVATION**

(Allow sidewall reinforcement to extend into end of headwall.)

		<b>As1m REINFORCEMENT</b>										
		(in. <sup>2</sup> /ft)										
Ts (in.)	Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17										
5	0.26	0.21	0.18									
6	0.22	0.26	0.23	0.22								
7	0.25	0.33	0.29	0.27	0.28							
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40					
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48				
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56			
11	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65		
12	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75	

(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

**l1 DIMENSION**

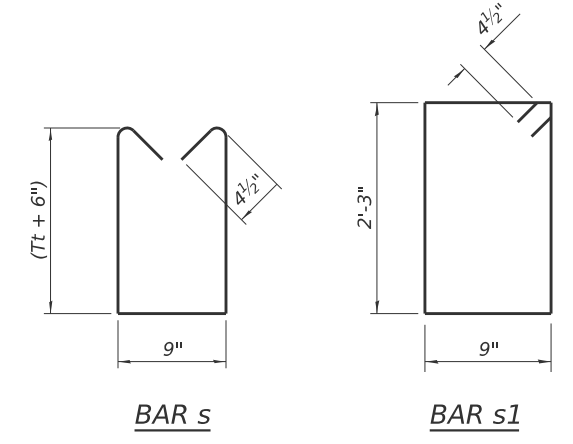
- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"

**Notes:**

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.<sup>2</sup>/ft.) equal to 1.10\*(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

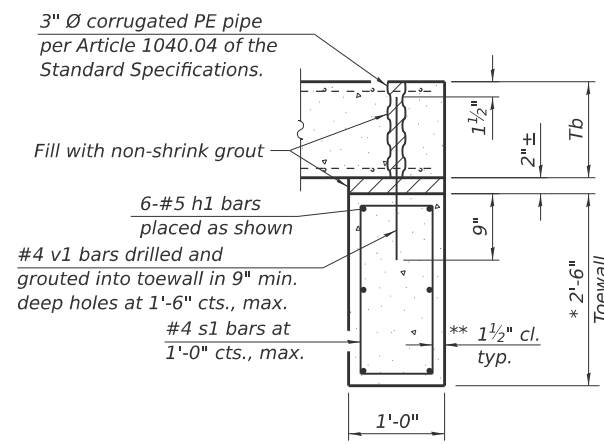


**TOEWALL CONSTRUCTION SEQUENCE**

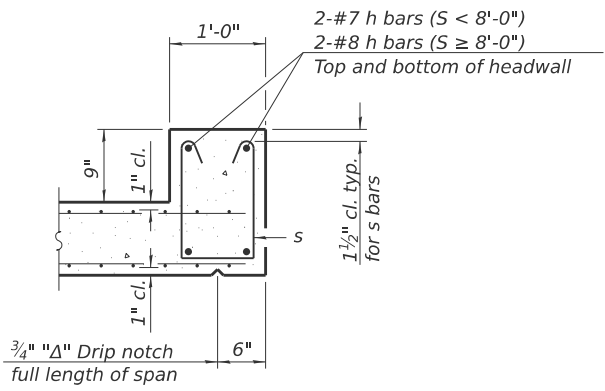
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance 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 the 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.



**SECTION E-E**



**SECTION F-F**

(Sheet 2 of 2)

MODEL: Details\_SCB-TES-1 (Sheet) FILE NAME: c:\p\p\p\mk\mkrunney@homerhfrin.com\d\ms2885\0999761-shr-d\details\_SCB-TES.dgn

SCB-TES

5-15-2023



USER NAME = maobrien	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/6/2026	DATE -	REVISED -

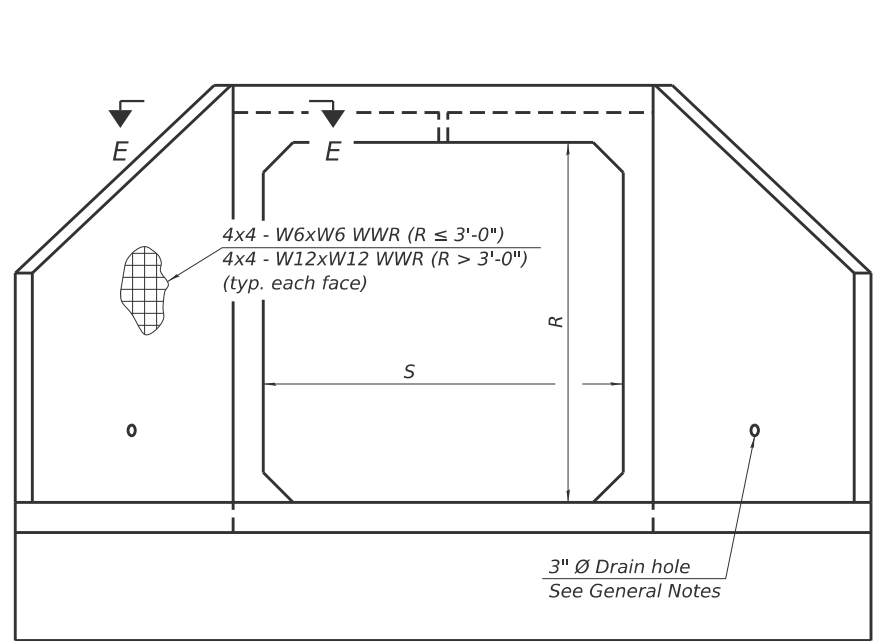


**SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS STRUCTURE NO.**

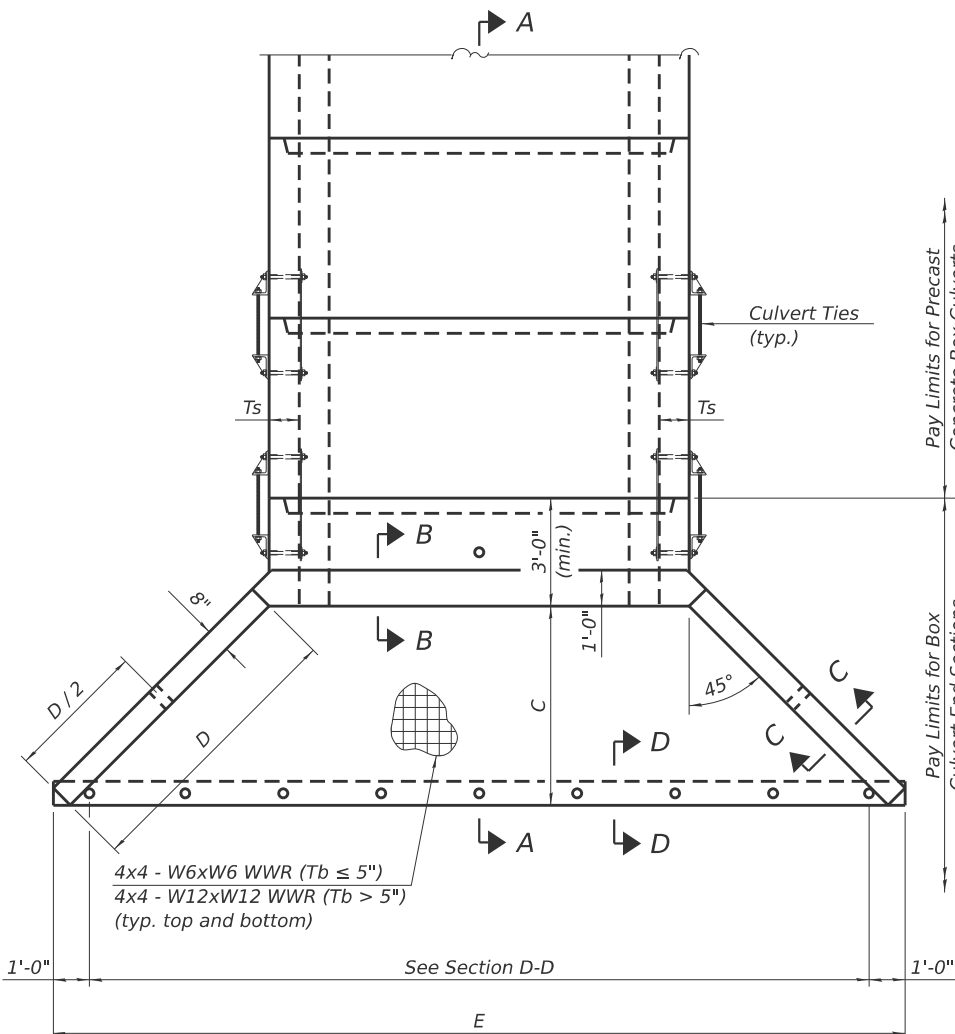
SCALE: SHEET A002 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. 9638	SECTION 24-00133-00-SP	COUNTY WILLIAMSON	TOTAL SHEETS 52	SHEET NO. 29
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

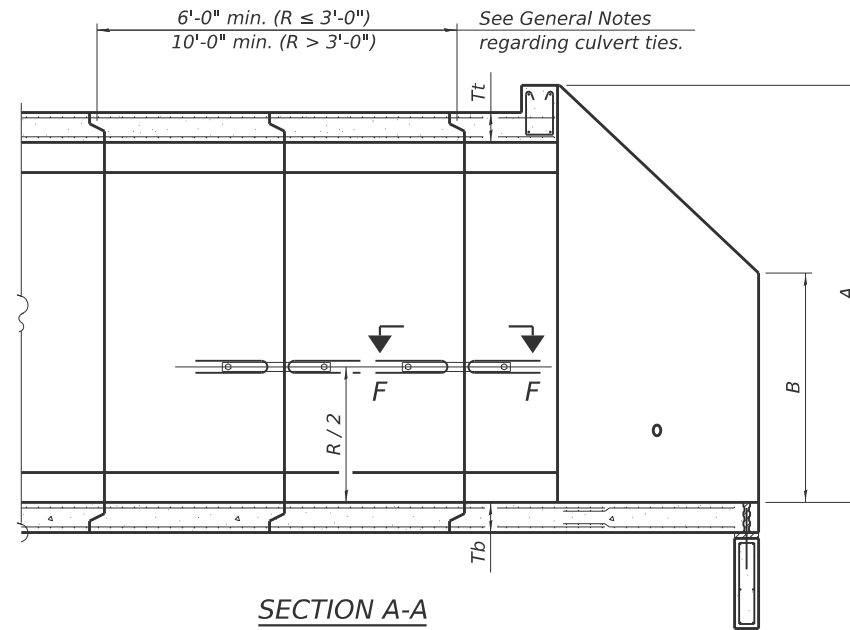
H&S JOB 242106



END VIEW



PLAN



SECTION A-A

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.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

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.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

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". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

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 culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section 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 the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 <sup>5</sup> / <sub>8</sub> "	4'-1"	10'-4 <sup>5</sup> / <sub>8</sub> "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 <sup>7</sup> / <sub>8</sub> "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	12'-4 <sup>5</sup> / <sub>8</sub> "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 <sup>7</sup> / <sub>8</sub> "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 <sup>1</sup> / <sub>2</sub> "	2'-2 <sup>1</sup> / <sub>2</sub> "	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-10"	11'-2 <sup>3</sup> / <sub>8</sub> "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 <sup>1</sup> / <sub>2</sub> "	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	13'-8 <sup>1</sup> / <sub>2</sub> "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 <sup>1</sup> / <sub>2</sub> "	5'-3"	13'-2 <sup>3</sup> / <sub>8</sub> "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 <sup>1</sup> / <sub>2</sub> "	3'-2 <sup>1</sup> / <sub>2</sub> "	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	15'-8 <sup>1</sup> / <sub>2</sub> "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 <sup>3</sup> / <sub>8</sub> "	6'-8"	15'-2 <sup>1</sup> / <sub>2</sub> "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 <sup>1</sup> / <sub>4</sub> "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	14'-10 <sup>3</sup> / <sub>8</sub> "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 <sup>1</sup> / <sub>4</sub> "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	16'-10 <sup>1</sup> / <sub>8</sub> "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 <sup>1</sup> / <sub>4</sub> "	6'-9"	16'-5 <sup>7</sup> / <sub>8</sub> "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	18'-10 <sup>3</sup> / <sub>8</sub> "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 <sup>1</sup> / <sub>4</sub> "	8'-2"	18'-5 <sup>7</sup> / <sub>8</sub> "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 <sup>3</sup> / <sub>8</sub> "	4'-1"	13'-10 <sup>3</sup> / <sub>8</sub> "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	16'-0 <sup>1</sup> / <sub>8</sub> "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	15'-10 <sup>5</sup> / <sub>8</sub> "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	18'-0 <sup>1</sup> / <sub>2</sub> "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 <sup>3</sup> / <sub>4</sub> "	6'-11"	17'-10 <sup>3</sup> / <sub>4</sub> "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	20'-0 <sup>1</sup> / <sub>8</sub> "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 <sup>3</sup> / <sub>4</sub> "	8'-4"	19'-10 <sup>3</sup> / <sub>4</sub> "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	22'-0 <sup>1</sup> / <sub>2</sub> "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 <sup>3</sup> / <sub>4</sub> "	9'-9"	21'-10 <sup>3</sup> / <sub>4</sub> "	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	17'-2 <sup>1</sup> / <sub>2</sub> "	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	19'-2 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	21'-2 <sup>1</sup> / <sub>8</sub> "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	23'-2 <sup>1</sup> / <sub>4</sub> "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	18'-2 <sup>1</sup> / <sub>8</sub> "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	20'-2 <sup>1</sup> / <sub>8</sub> "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	22'-2 <sup>1</sup> / <sub>8</sub> "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	24'-2 <sup>1</sup> / <sub>4</sub> "	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 <sup>3</sup> / <sub>4</sub> "	4'-4"	17'-6 <sup>7</sup> / <sub>8</sub> "	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 <sup>3</sup> / <sub>4</sub> "	5'-9"	19'-6 <sup>7</sup> / <sub>8</sub> "	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 <sup>3</sup> / <sub>4</sub> "	7'-2"	21'-6 <sup>7</sup> / <sub>8</sub> "	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 <sup>7</sup> / <sub>8</sub> "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 <sup>7</sup> / <sub>8</sub> "	9'-11"	25'-5 <sup>5</sup> / <sub>8</sub> "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 <sup>1</sup> / <sub>2</sub> "	4'-5"	18'-10 <sup>1</sup> / <sub>4</sub> "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 <sup>1</sup> / <sub>2</sub> "	5'-10"	20'-10 <sup>1</sup> / <sub>4</sub> "	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 <sup>1</sup> / <sub>2</sub> "	7'-3"	22'-10 <sup>3</sup> / <sub>8</sub> "	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 <sup>1</sup> / <sub>2</sub> "	8'-8"	24'-10 <sup>3</sup> / <sub>8</sub> "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 <sup>1</sup> / <sub>2</sub> "	10'-1"	26'-10 <sup>3</sup> / <sub>8</sub> "	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 <sup>7</sup> / <sub>8</sub> "	4'-7"	20'-3 <sup>1</sup> / <sub>8</sub> "	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 <sup>7</sup> / <sub>8</sub> "	6'-0"	22'-3 <sup>1</sup> / <sub>8</sub> "	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 <sup>1</sup> / <sub>4</sub> "	7'-4"	24'-1 <sup>3</sup> / <sub>4</sub> "	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 <sup>1</sup> / <sub>4</sub> "	8'-9"	26'-1 <sup>3</sup> / <sub>4</sub> "	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 <sup>1</sup> / <sub>4</sub> "	10'-2"	28'-1 <sup>7</sup> / <sub>8</sub> "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 <sup>3</sup> / <sub>8</sub> "	4'-8"	21'-6 <sup>1</sup> / <sub>2</sub> "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 <sup>3</sup> / <sub>8</sub> "	6'-1"	23'-6 <sup>1</sup> / <sub>2</sub> "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 <sup>3</sup> / <sub>8</sub> "	7'-6"	25'-6 <sup>5</sup> / <sub>8</sub> "	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 <sup>3</sup> / <sub>8</sub> "	8'-11"	27'-6 <sup>5</sup> / <sub>8</sub> "	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 <sup>3</sup> / <sub>8</sub> "	10'-4"	29'-6 <sup>5</sup> / <sub>8</sub> "	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

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SCB-AES

5-15-2023



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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/7/2026	DATE -	REVISED -

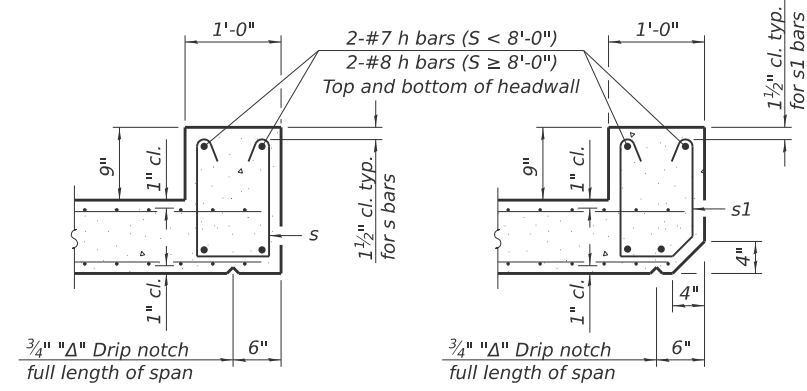


PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO.

SCALE: SHEET A003 OF 6 SHEETS STA. TO STA.

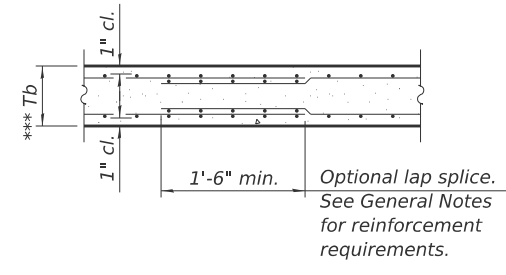
F.A.U. RTE. 9638	SECTION 24-00133-00-SP	COUNTY WILLIAMSON	TOTAL SHEETS 52	SHEET NO. 30
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

H&S JOB 242106



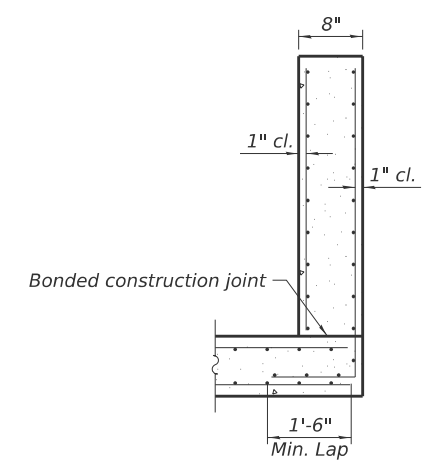
**SECTION B-B**  
(Top slab at downstream end)

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

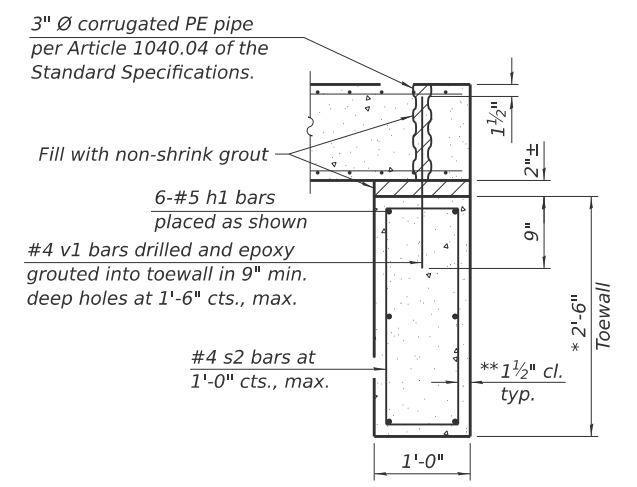


**SECTION B-B**  
(Bottom Slab)

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



**SECTION C-C**



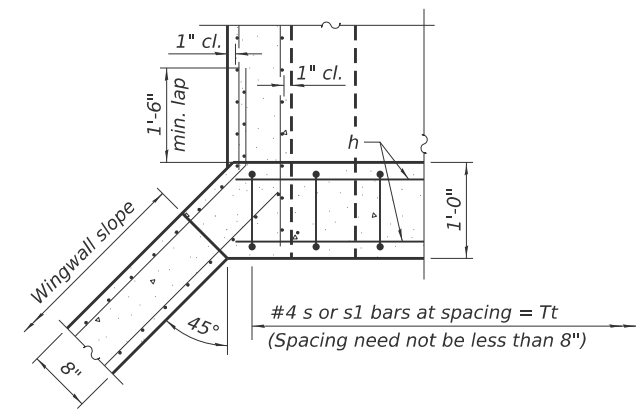
**SECTION D-D**

**TOEWALL CONSTRUCTION SEQUENCE**

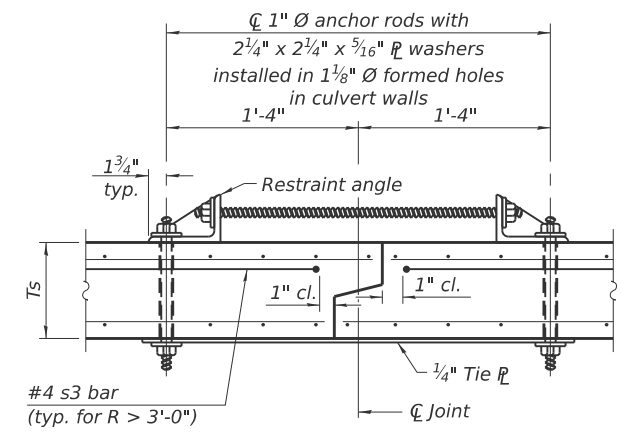
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids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

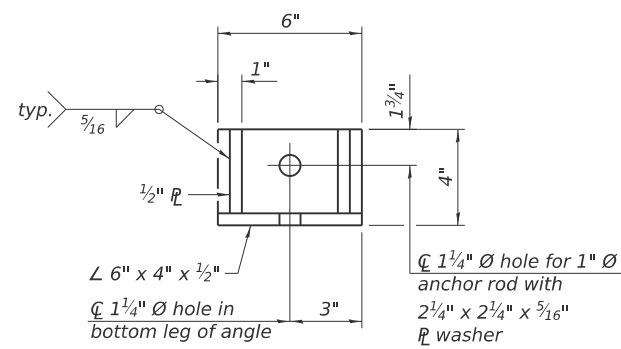
\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



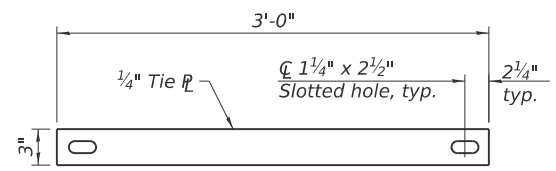
**SECTION E-E**



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

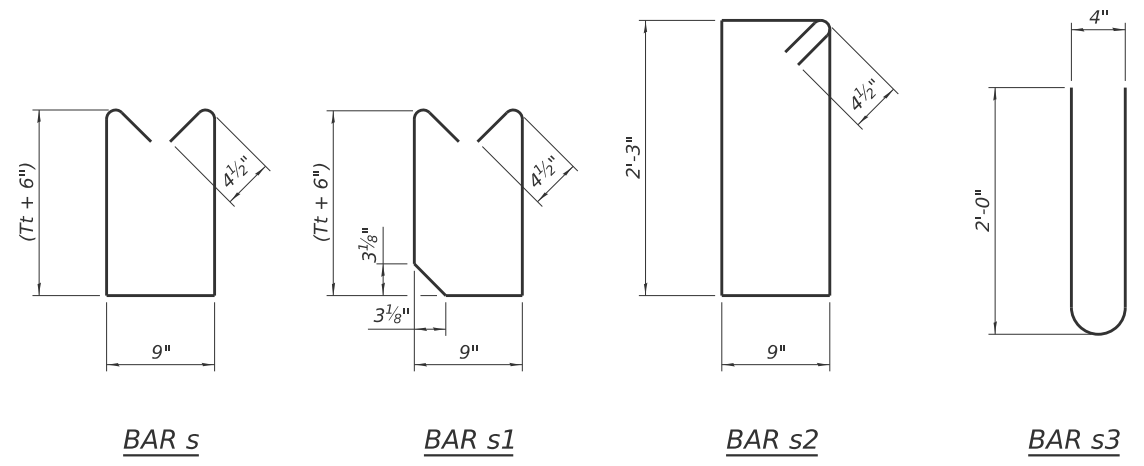


**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**

Notes:  
1" Ø 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 1/4" x 2 1/4" x 3/16" 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 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.



**BAR s**

**BAR s1**

**BAR s2**

**BAR s3**

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SCB-AES

5-15-2023



USER NAME = mikkrumrey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/6/2026	DATE -	REVISED -



PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO.

SCALE: SHEET A004 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	31
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

H&S JOB 242106

(Sheet 2 of 2)

Benchmark:

Existing Structure:

NOTE:  
The last 6 ft of box culvert shall be poured in place due to existing sanitary sewer line.

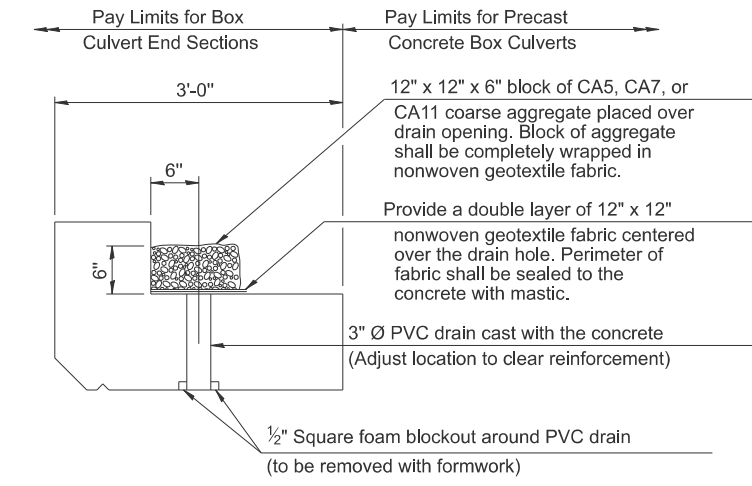
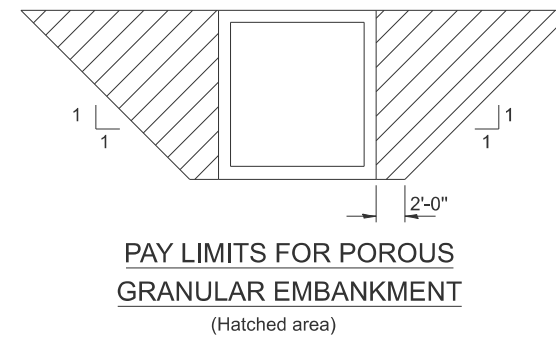
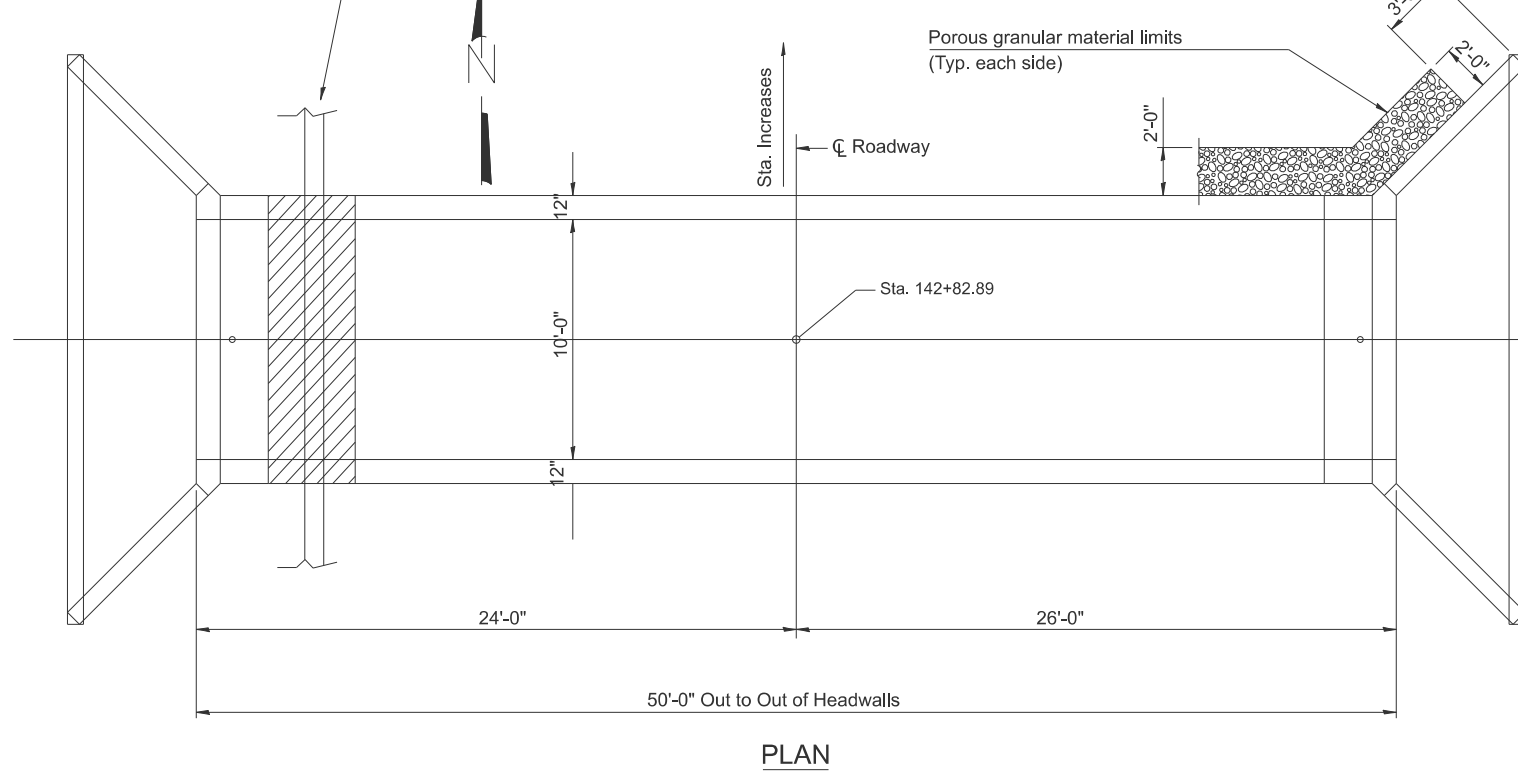
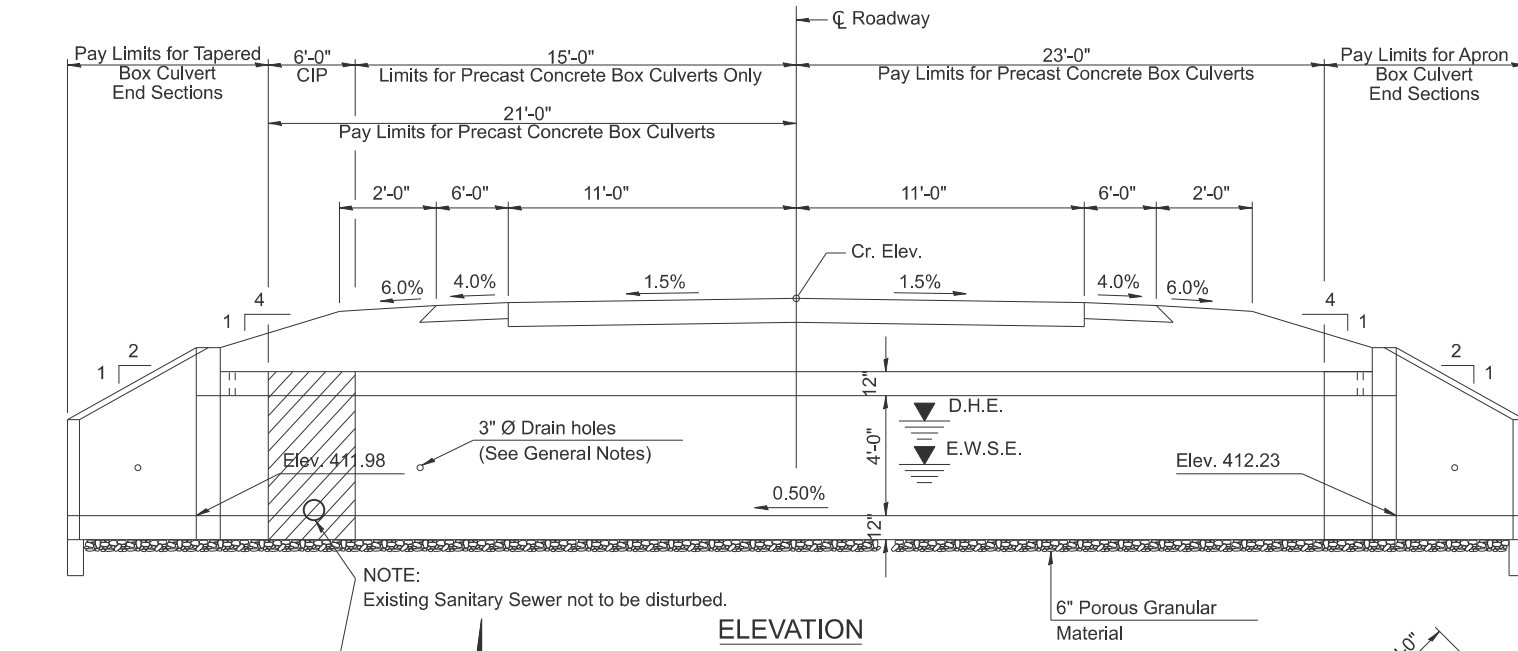
### GENERAL NOTES

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.)

### 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
Precast Concrete Box Culverts, 10' x 4'	Foot	38
Box Culvert End Sections, Culvert No.1	Each	2
Porous Granular Embankment	Cu. Yd.	204
Class SI Concrete	Cu. Yd.	5.8
Expansion Bolts, 3/4"	Each	20

**GENERAL PLAN AND ELEVATION**  
**SOUTH MARKET STREET**  
**F.A.S. RTE. 9638 SEC.24-00133-00-SP**  
**WILLIAMSON COUNTY**  
**STATION 142+82.89**

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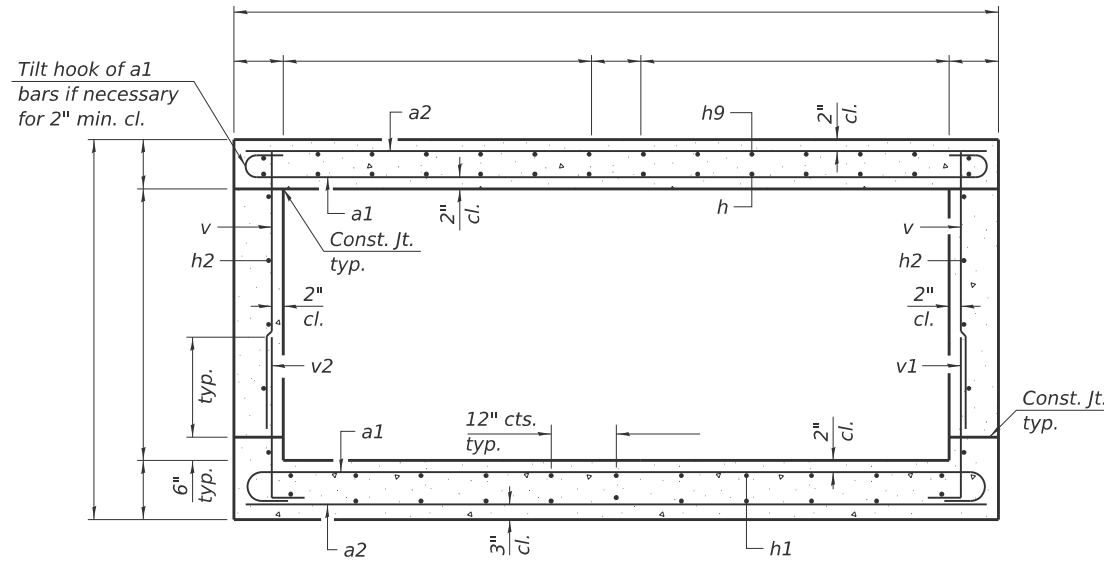


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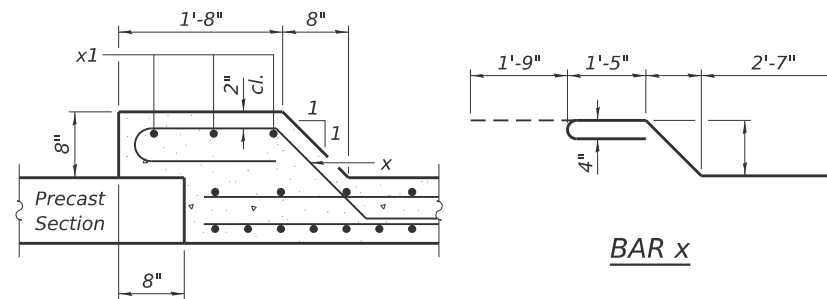
<b>BOX CULVERT GENERAL PLAN ELEVATION</b>			
SCALE:	SHEET A005	OF 5 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	32
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

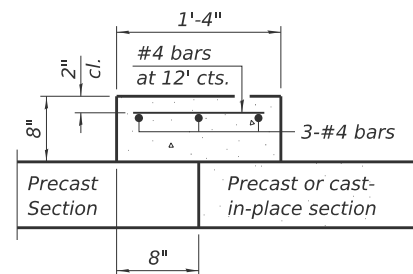


**SECTION THRU BARREL**  
**10'x4' CAST-IN-PLACE SECTION**

Bar	Size	
a1	No. 7	—
a2,h	No. 7	⌒
h1	No. 6	—
v	No. 4	—
v2,h2	No. 4	—
t	12"	
w	6"	



**SECTION THRU CONNECTION COLLAR**



**ALTERNATE SECTION THRU CONNECTION COLLAR**

NOTE:  
DETAILS FROM ILLINOIS DEPARTMENT OF TRANSPORTATION  
CULVERT MANUAL, CURRENT EDITION.

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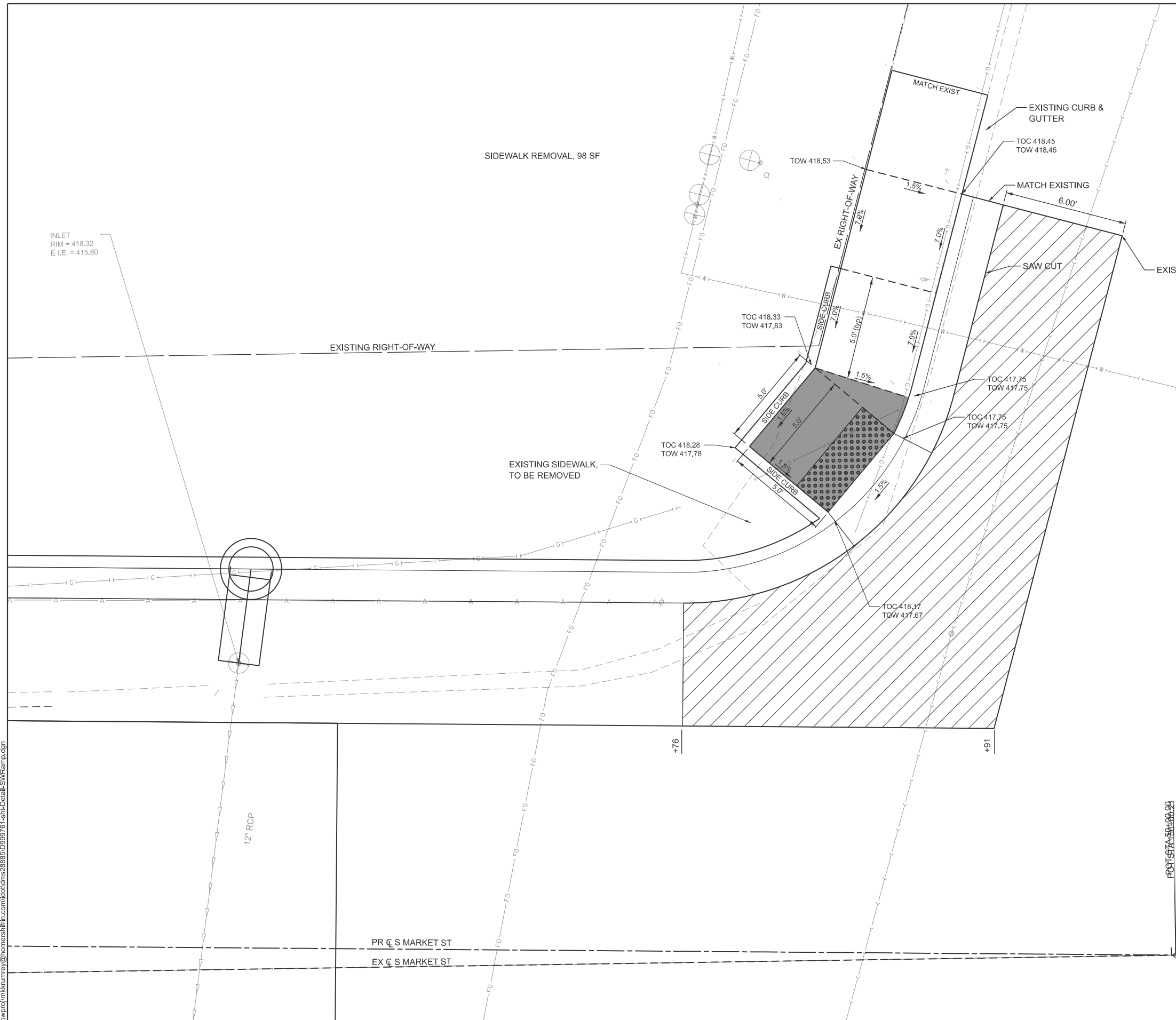
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PLOT DATE = 2/6/2026	DATE -	REVISED -



**CAST IN PLACE SECTION DETAILS**



SCALE: SHEET A006 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	33
CONTRACT NO. 99761				



- COMBINATION CONCRETE CURB & GUTTER REMOVAL TY B-6.18, 79 LF
- DETECTABLE WARNING, 10 SQ FT
- PCC SIDEWALK 5 INCH, 64 SQ YD

LEGEND

-  DETECTABLE WARNINGS
-  LANDING AREA (2% MAX)
- TOC TOP OF CURB ELEVATION
- TOW TOP OF WALK ELEVATION



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PLOT DATE = 2/5/2026	DATE -	REVISED -



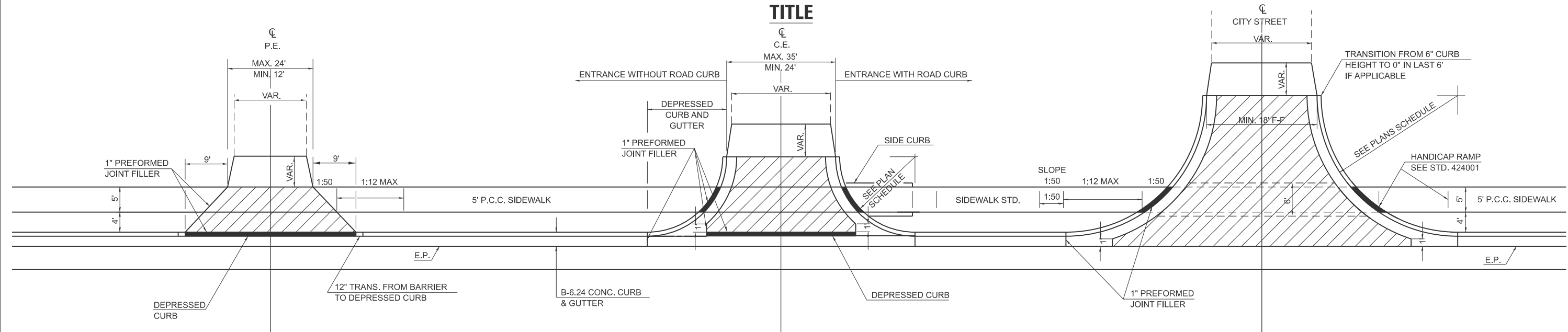
**CURB RAMP DETAIL**  
**SW QUAD SOUTH MARKET ST & BOYTON ST**

SCALE: SHEET A001 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	34
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



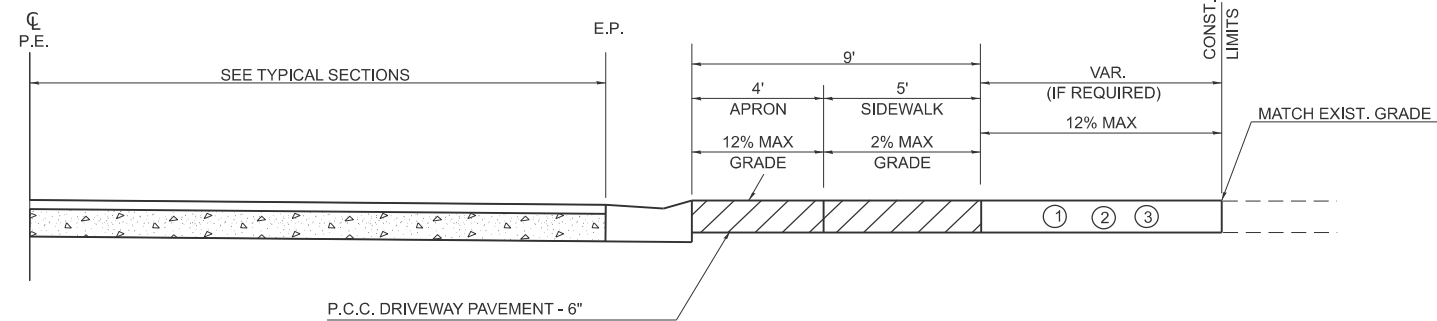
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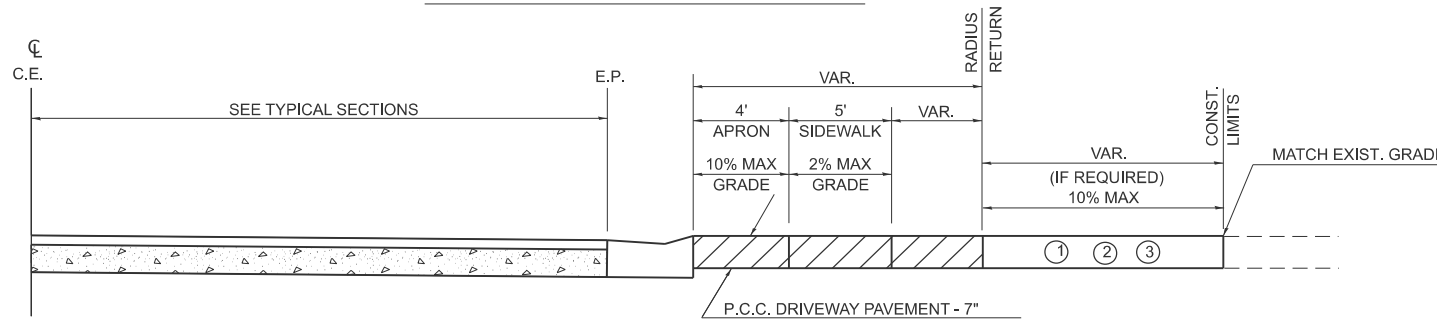
**DETAILS PRIVATE ENTRANCE**

**DETAILS COMMERCIAL ENTRANCE**

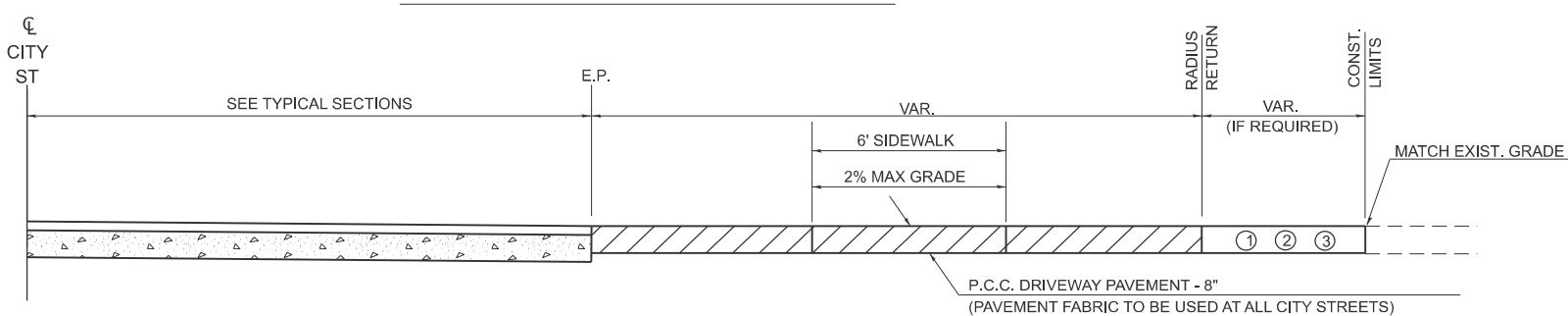
**DETAILS CITY STREETS**



**PROFILE OF PRIVATE ENTRANCES**



**PROFILE OF COMMERCIAL ENTRANCES**



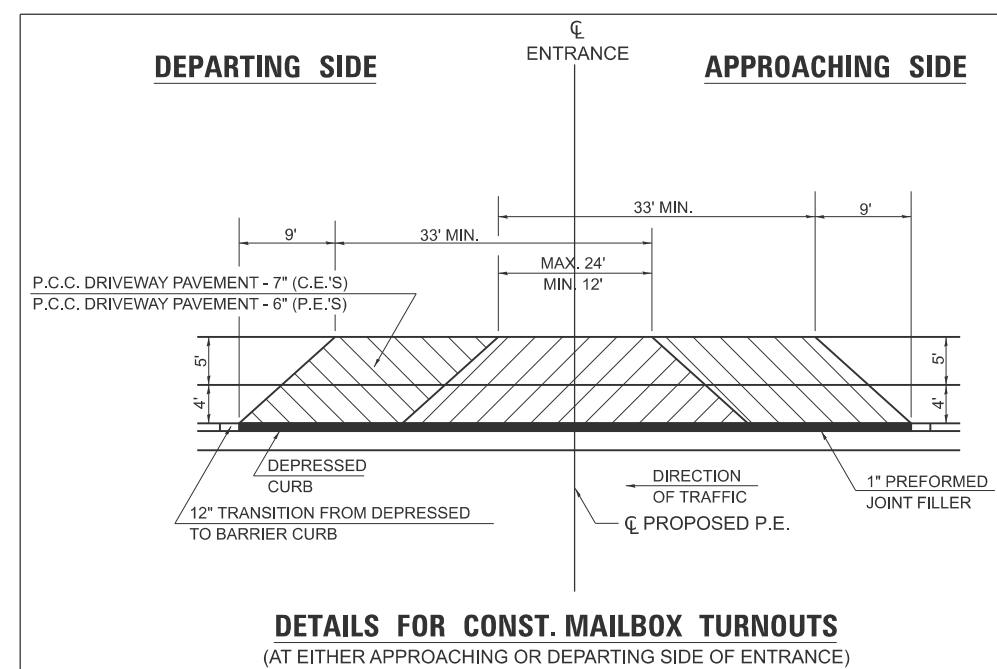
**PROFILE OF CITY STREETS**

**GENERAL NOTES**

1. SEE PLAN SCHEDULES FOR DIMENSIONS AND QUANTITIES.
2. SEE CROSS SECTIONS FOR PROPOSED PROFILE OF SIDEROAD AND ENTRANCES.
3. IN GENERAL, WIDTH TRANSITION TAPER RATES ARE TO BE 5:1 FOR ENTRANCES, AND 10:1 FOR CITY STREETS.
4. THE SAWING OF ALL JOINTS IN PCC DRIVEWAY PAVEMENT AT ALL LOCATIONS DESIGNATED BY THE ENGINEER, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PCC DRIVEWAY PAVEMENT.
5. THE SIDEWALK AREA OF THE DRIVEWAY PAVEMENT SHALL BE CONSTRUCTED AS A SEPARATE POUR.

**LEGEND**

- ① EXISTING AGGREGATE SURFACE: CONSTRUCT AGGREGATE SURFACE CSE, TYPE A WEDGE TO MATCH EXISTING GRADE. USE 6" MIN. (8" MIN. FOR CITY STREETS) THICKNESS FOR ANY REQUIRED WIDENING.
- ② EXISTING BITUMINOUS SURFACE: USE 2" MIN. BITUMINOUS RESURFACING ON 4" MIN. AGGREGATE BASE COURSE.
- ③ EXISTING CONCRETE SURFACE: (6" MIN. FOR CITY STREETS)  
 P.C.C. DRIVEWAY PAVEMENT 6" P.E.'S  
 P.C.C. DRIVEWAY PAVEMENT 7" C.E.'S  
 P.C.C. DRIVEWAY PAVEMENT 8" CITY STREETS



**DETAILS FOR CONST. MAILBOX TURNOUTS**  
(AT EITHER APPROACHING OR DEPARTING SIDE OF ENTRANCE)

STD. 9-

DRAWN	
REVISED	
REVISED	
REVISED	

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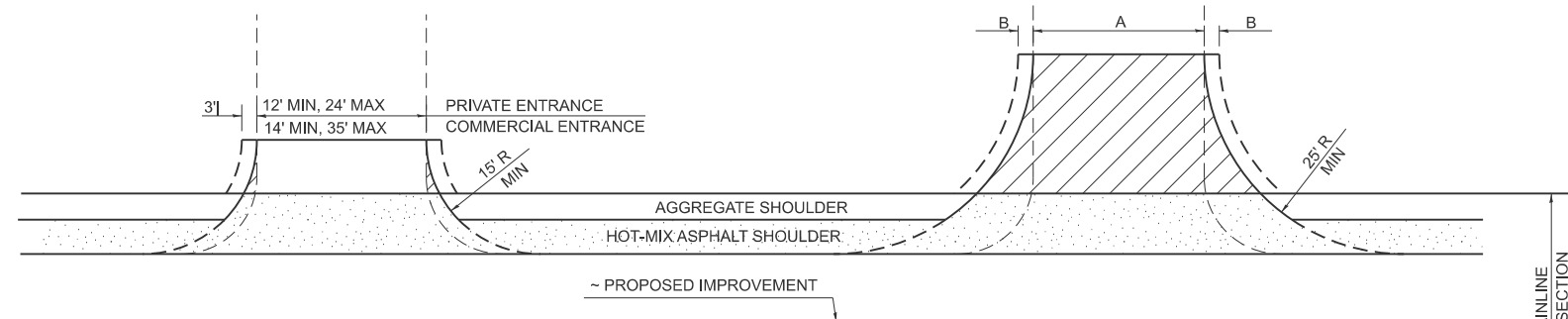


<b>SIDEROAD DETAILS</b>			
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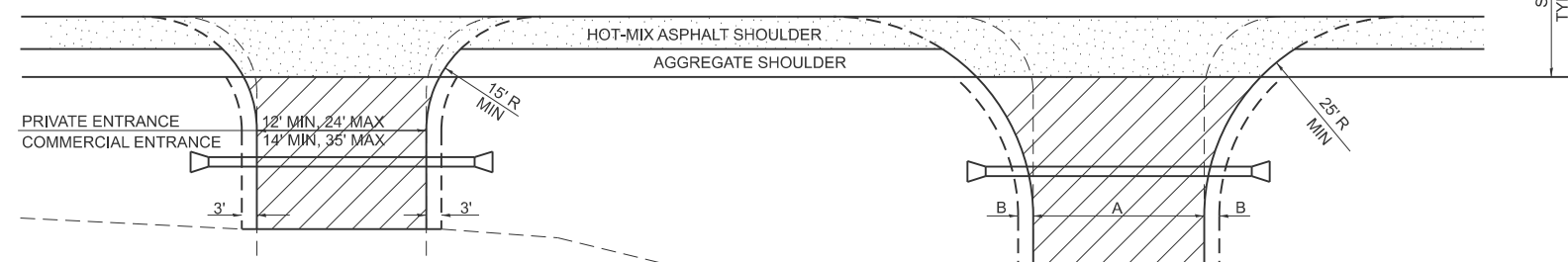
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CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

# RURAL SIDE APPROACH DETAILS

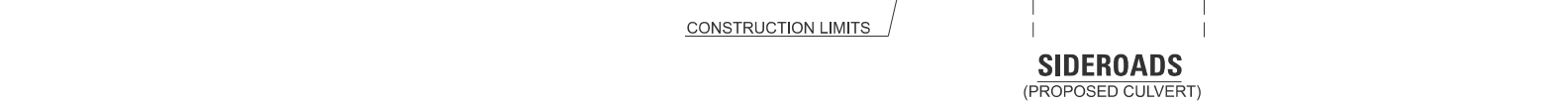
## PRIVATE AND COMMERCIAL ENTRANCES



## SIDEROADS



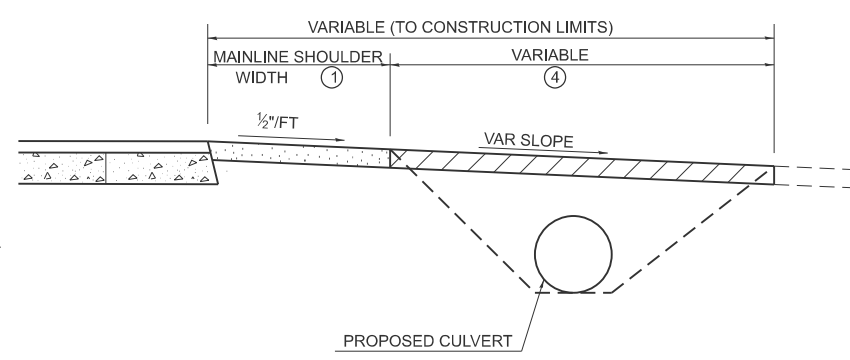
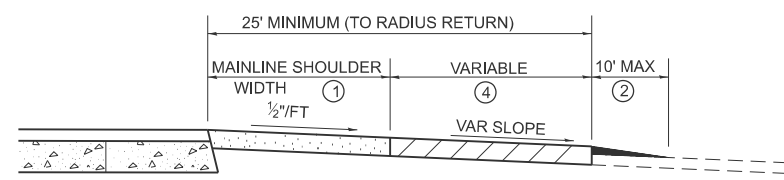
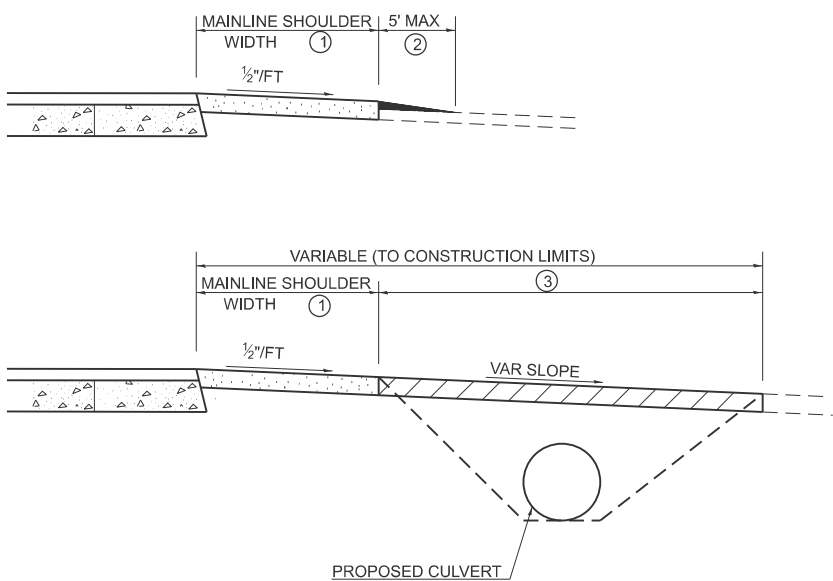
## PRIVATE AND COMMERCIAL ENTRANCES (PROPOSED CULVERT)



## SIDEROADS (PROPOSED CULVERT)

## SIDEROADS

## PRIVATE AND COMMERCIAL ENTRANCES



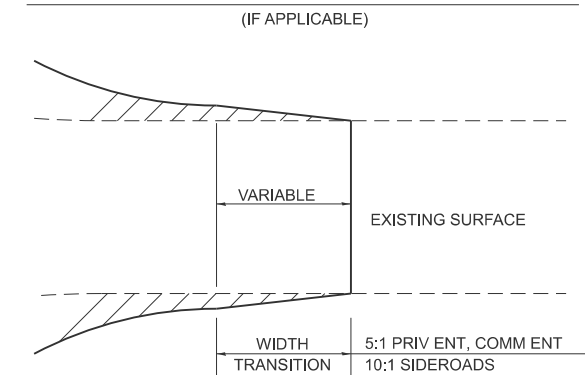
## SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT)	B (FT)
0 TO 250	18'	2'
250 TO 400	20'	2'
GREATER THAN 400	22'	4'

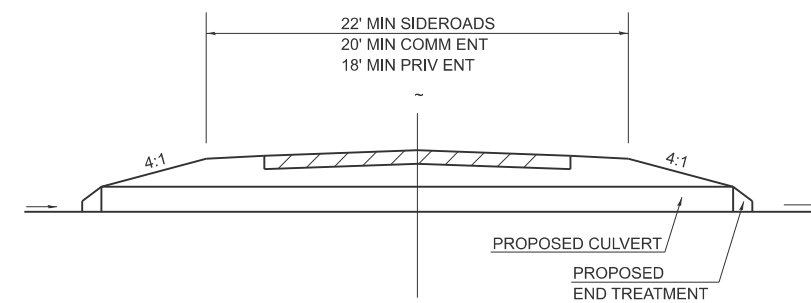
## FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE HOT-MIX ASPHALT AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES.  
IF A PIPE IS REQUIRED, PROVIDE A 22' WIDE EARTH EMBANKMENT WITH 15' RADII AT THE INTERSECTION.

## WIDTH TRANSITION DETAIL TO EXISTING



## DETAIL FOR CALCULATING CULVERT LENGTH



## LEGEND

- CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; HOT-MIX ASPHALT TAPER FOR EXISTING HIGHER TYPE SURFACES.
- 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 2" HOT-MIX ASPHALT RESURFACING ON 4" AGGREGATE BASE COURSE FOR EXISTING HOT-MIX ASPHALT SURFACE; PCC DRIVEWAY PAVEMENT (6" - PE; 7" - CE) FOR EXISTING CONCRETE SURFACE.
- 3" MINIMUM HOT-MIX ASPHALT RESURFACING ON 8" MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

## GENERAL NOTES

- ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
- IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 16' WIDE SURFACE WITH 3' WIDE SHOULDERS (22' WIDE EMBANKMENT).
- SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
- ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 15" DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE (18" MINIMUM DIAMETER).
- THE INTERSECTION RADII OF SIDEROADS SHALL BE AS SHOWN ON THE PLANS.

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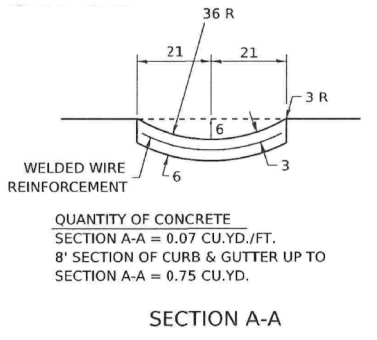
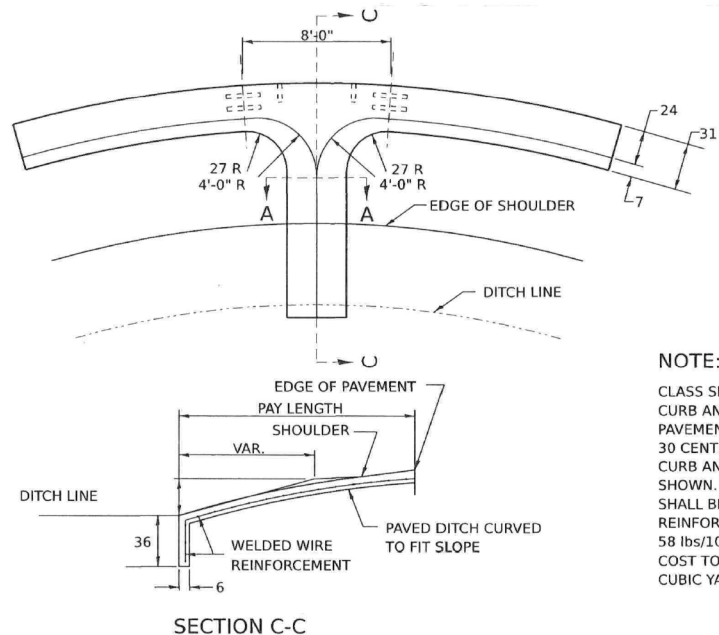
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PLOT DATE = 2/6/2026	DATE -	REVISED -



SIDEROAD DETAILS			
SCALE:	SHEET A002	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

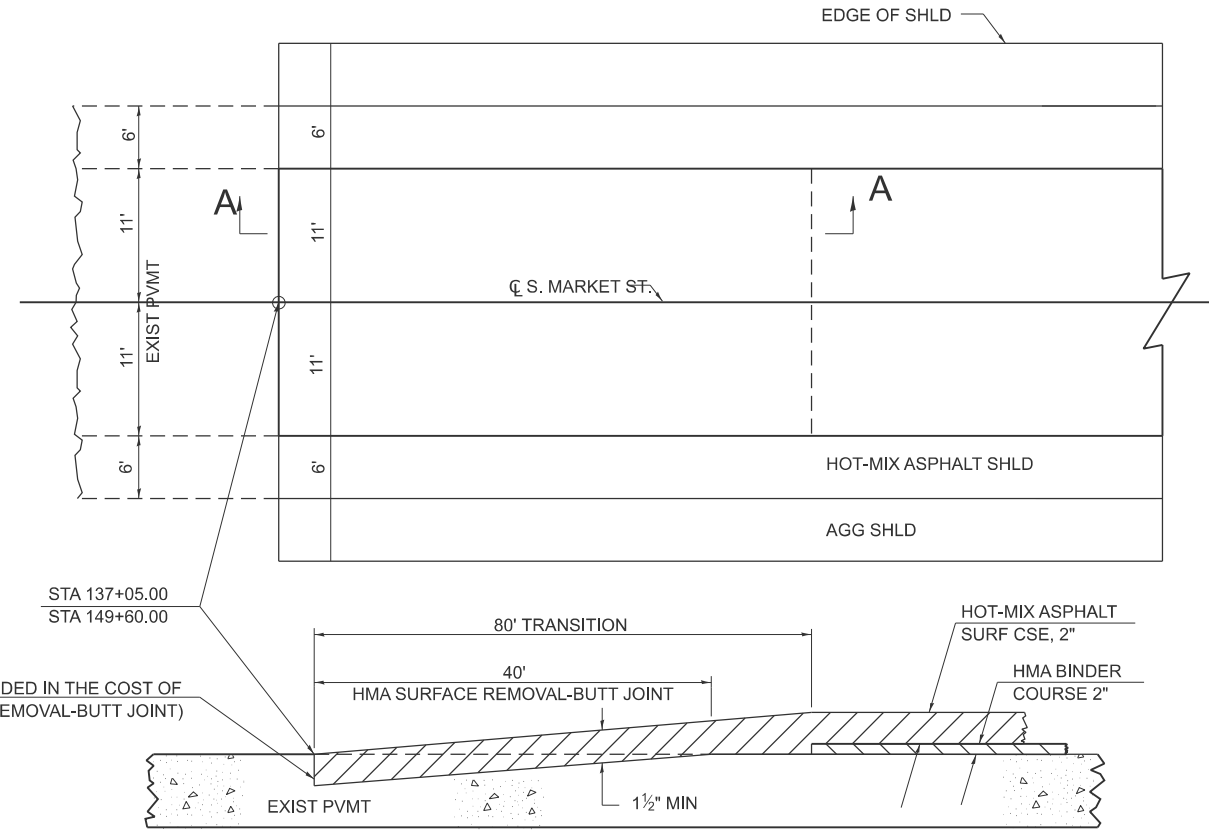
STD. 9-



**NOTE:**  
 CLASS SI CONCRETE SHALL BE USED THROUGHOUT. CURB AND GUTTER OUTLET SHALL BE TIED TO PAVEMENT SLAB WITH 2 TIE BARS, 30 LONG - 30 CENTERS. OUTLET SHALL BE TIED TO CURB AND GUTTER AT CONTRACTION JOINTS AS SHOWN. GUTTER OUTLET AND PAVED DITCH SHALL BE REINFORCED WITH WELDED WIRE REINFORCEMENT HAVING A WEIGHT OF AT LEAST 58 lbs/100 sq. ft. WITH 6 x 6 MESH, NO. 4 WIRE. COST TO BE INCLUDED IN THE UNIT PRICE PER CUBIC YARD FOR CLASS SI CONCRETE (OUTLET).

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

**BUTT JOINT**



**SECTION A-A**

DRAWN	10-17-90
REVISED	03-25-08
REVISED	10-21-21
REVISED	05-26-22

STD. 9-15

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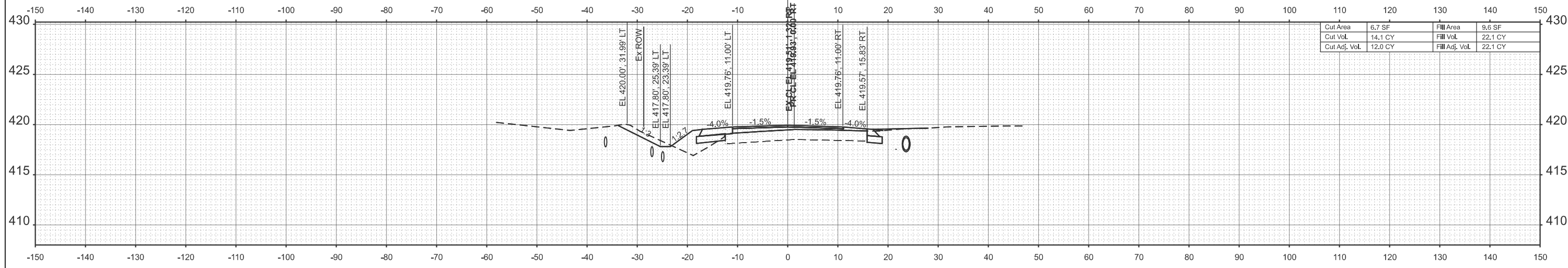
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**CURB OUTLET & BUTT JOINT  
 DETAIL**

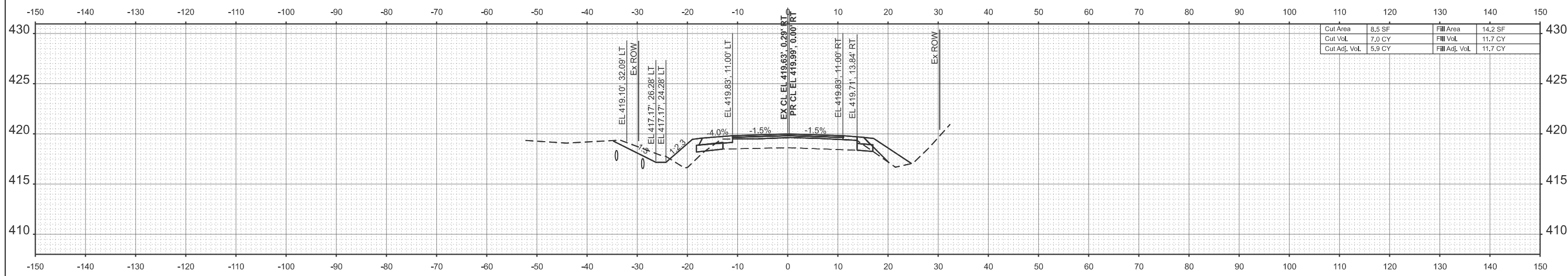
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



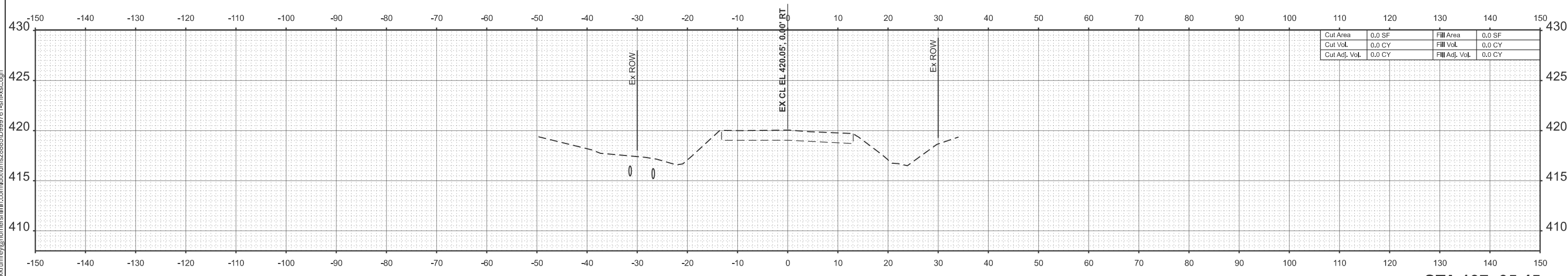
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Cut Vol.	14.1 CY	Fill Vol.	22.1 CY
Cut Adj. Vol.	12.0 CY	Fill Adj. Vol.	22.1 CY

**STA 138+00.00**  
**SRR (TEXAS AVE)**



Cut Area	8.5 SF	Fill Area	14.2 SF
Cut Vol.	7.0 CY	Fill Vol.	11.7 CY
Cut Adj. Vol.	5.9 CY	Fill Adj. Vol.	11.7 CY

**STA 137+50.00**



Cut Area	0.0 SF	Fill Area	0.0 SF
Cut Vol.	0.0 CY	Fill Vol.	0.0 CY
Cut Adj. Vol.	0.0 CY	Fill Adj. Vol.	0.0 CY

**STA 137+05.45**

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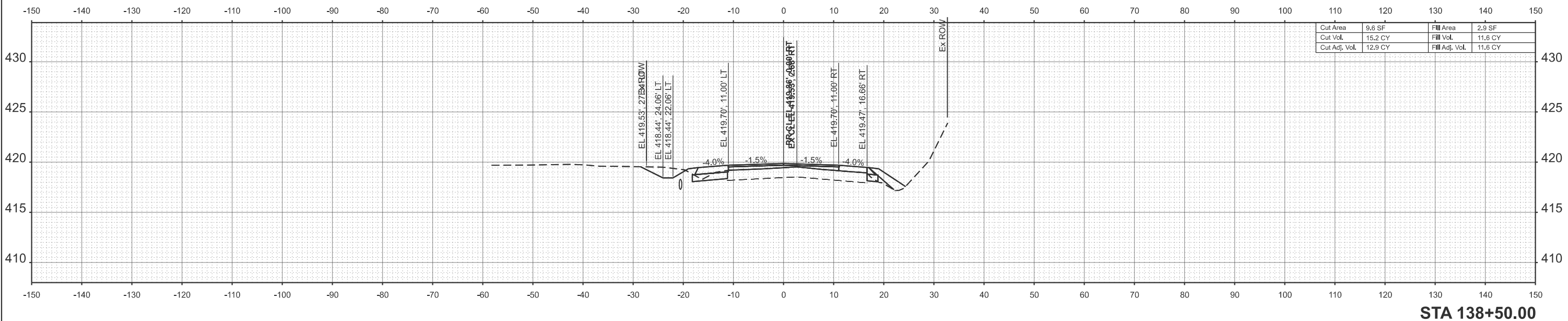


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PLOT DATE =	2/6/2026	DATE -	REVISD -



<b>CROSS SECTIONS</b>			
<b>SOUTH MARKET STREET</b>			
SCALE: 1"=10'	SHEET 1	OF 14 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	39
CONTRACT NO. 99761				
		ILLINOIS	FED. AID PROJECT	



STA 138+50.00

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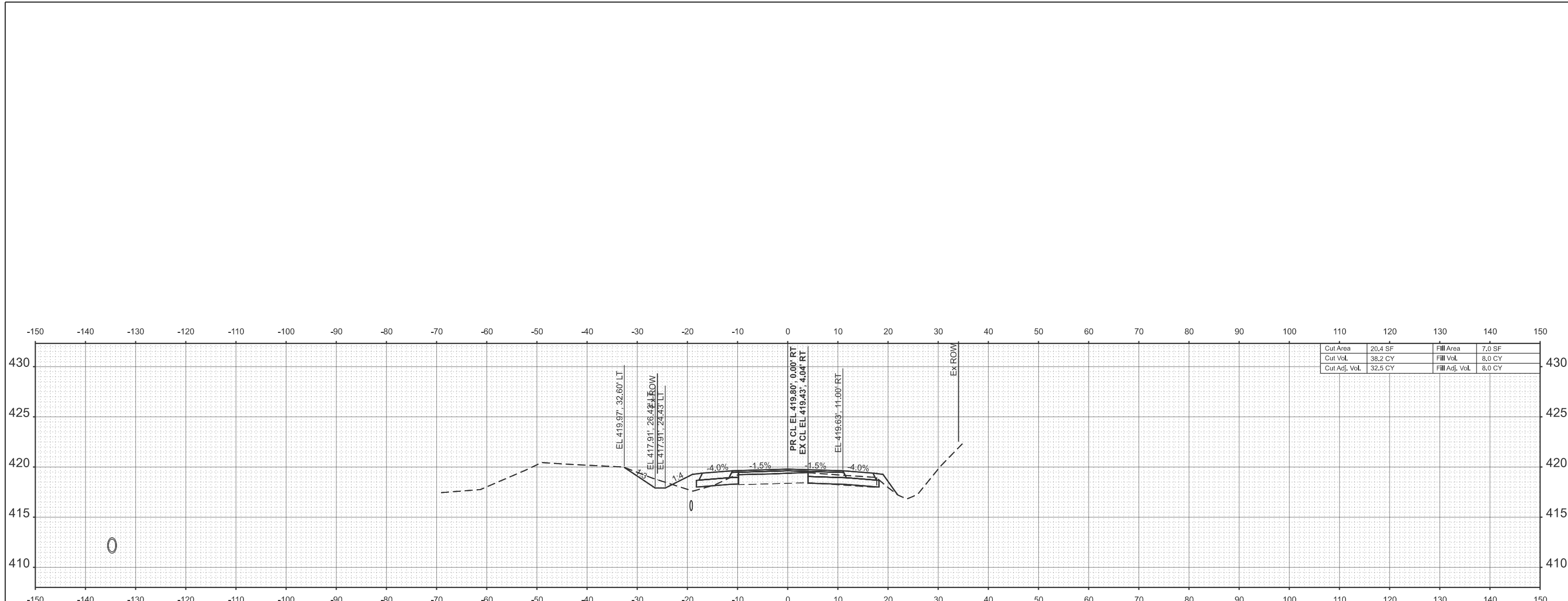
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**CROSS SECTIONS  
SOUTH MARKET STREET**

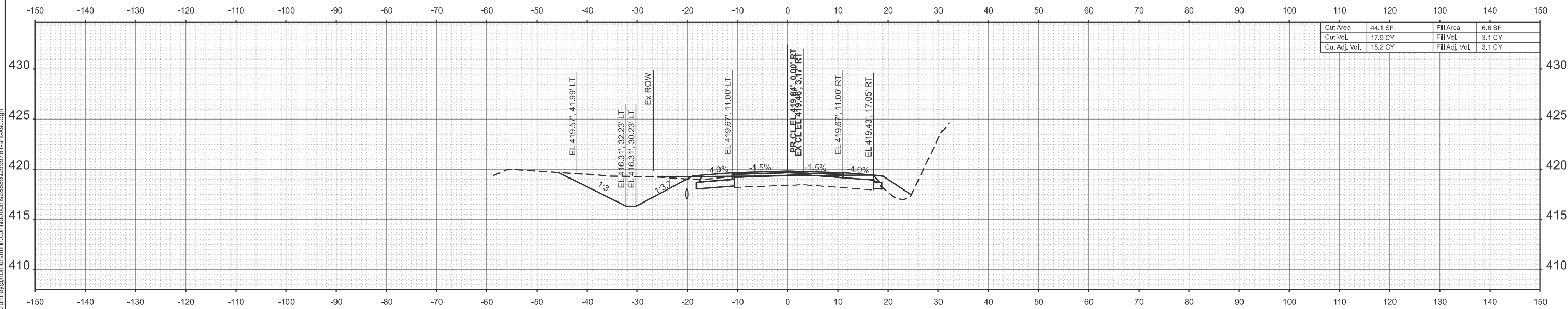
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9638	24-00133-00-SP	WILLIAMSON	52	40
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



Cut Area	20.4 SF	Fill Area	7.0 SF
Cut Vol.	38.2 CY	Fill Vol.	8.0 CY
Cut Adj. Vol.	32.5 CY	Fill Adj. Vol.	8.0 CY

**STA 139+00.00**



Cut Area	44.1 SF	Fill Area	6.6 SF
Cut Vol.	17.9 CY	Fill Vol.	3.1 CY
Cut Adj. Vol.	15.2 CY	Fill Adj. Vol.	3.1 CY

**STA 138+68.00  
FEL**

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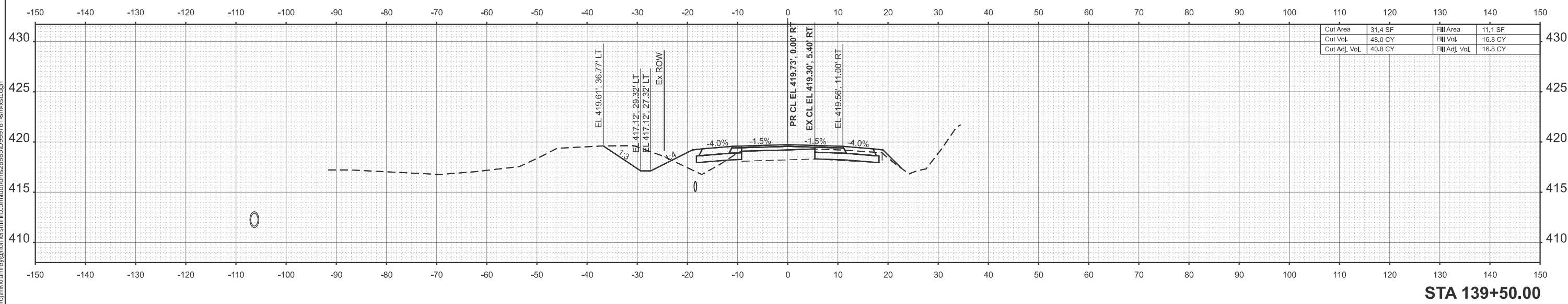
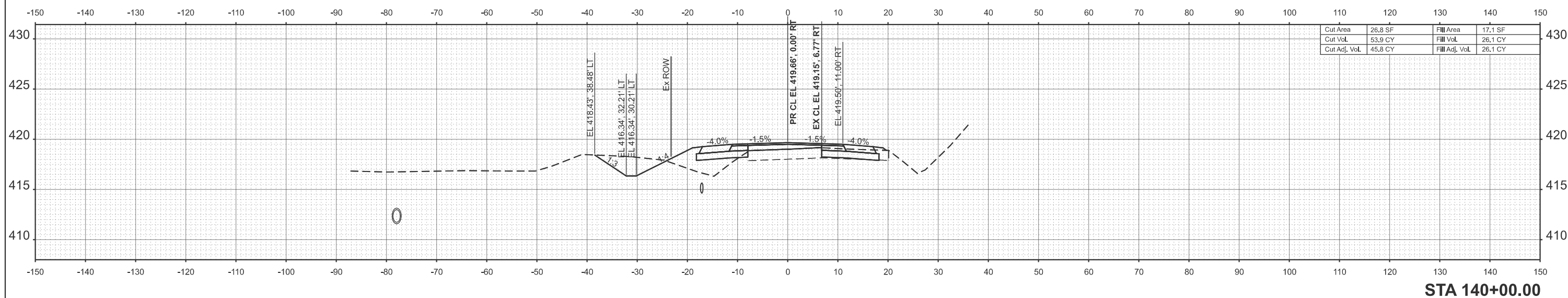
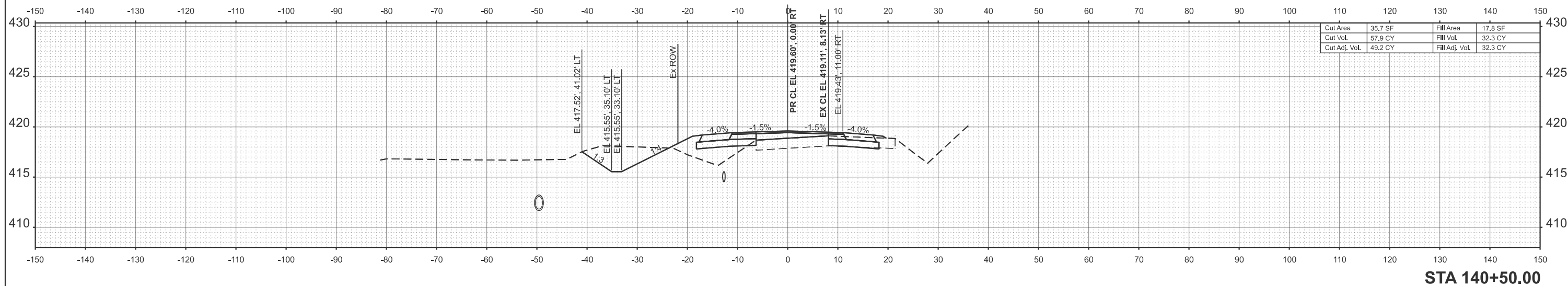
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<b>CROSS SECTIONS SOUTH MARKET STREET</b>			
SCALE: 1"=10'	SHEET 3	OF 14 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	41
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

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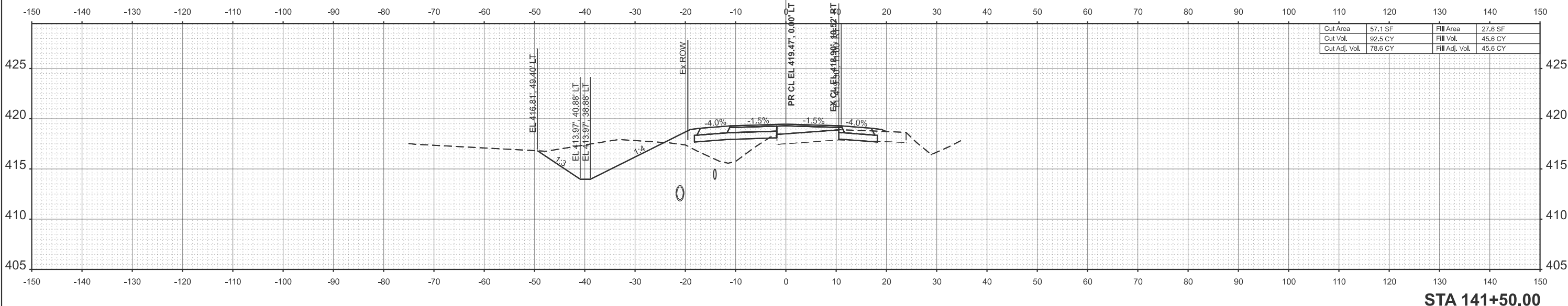
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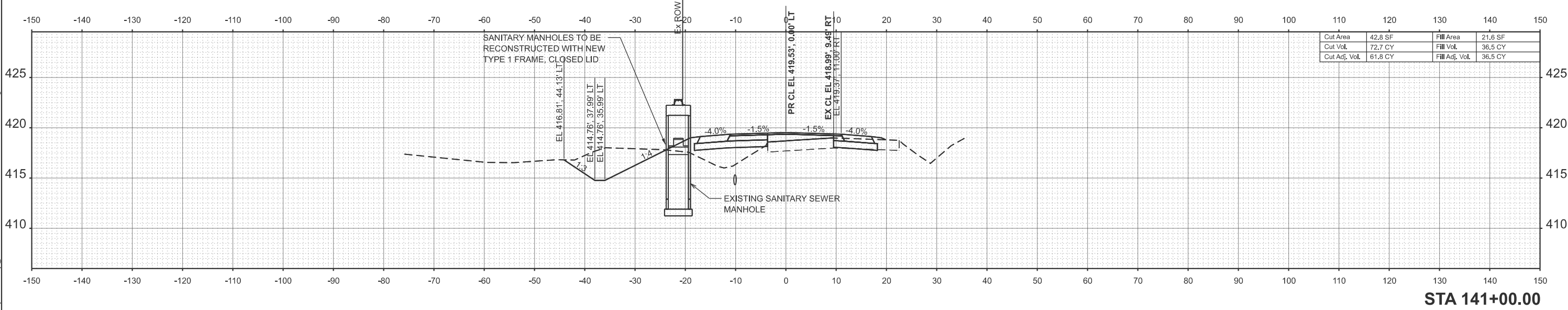


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**SOUTH MARKET STREET**  
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9638	24-00133-00-SP	WILLIAMSON	52	42
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



STA 141+50.00



STA 141+00.00

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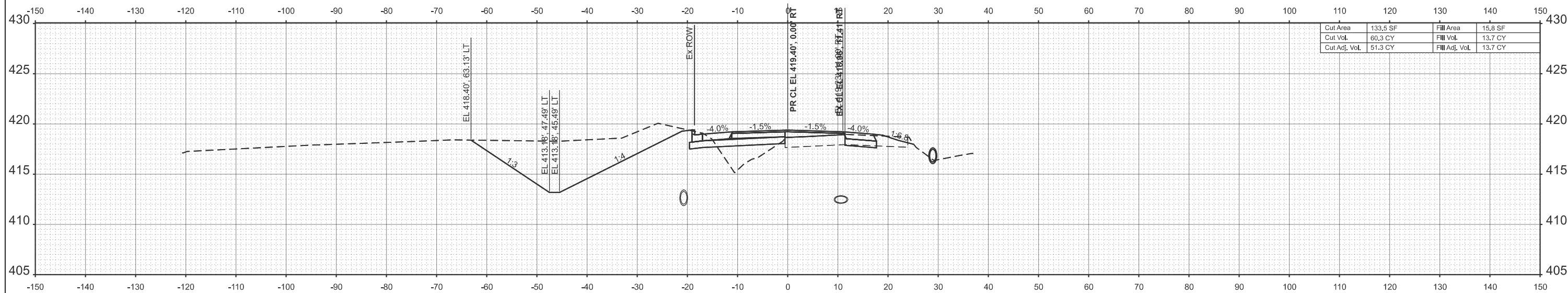
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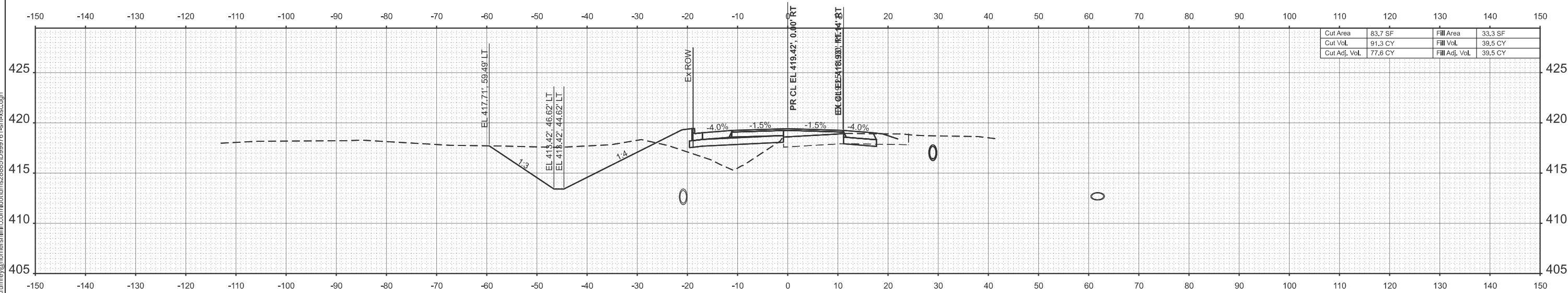
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SCALE: 1"=10'    SHEET 5 OF 14 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	43
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



STA 142+00.00



STA 141+85.00  
SRR (LEWIS AVE)

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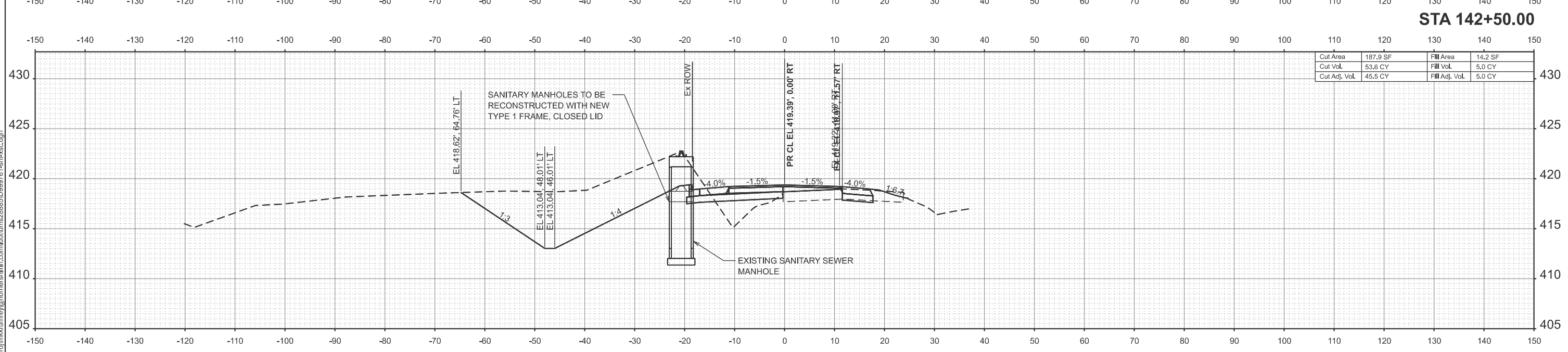
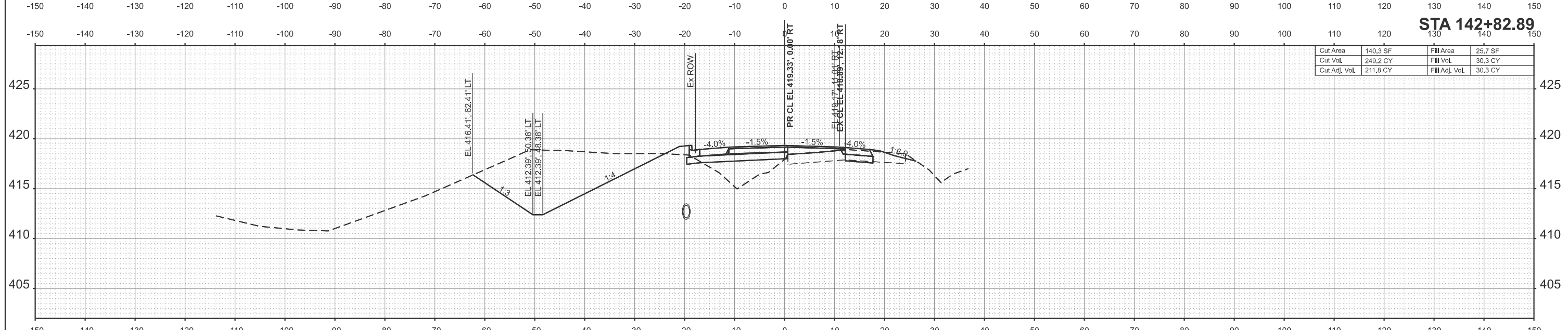
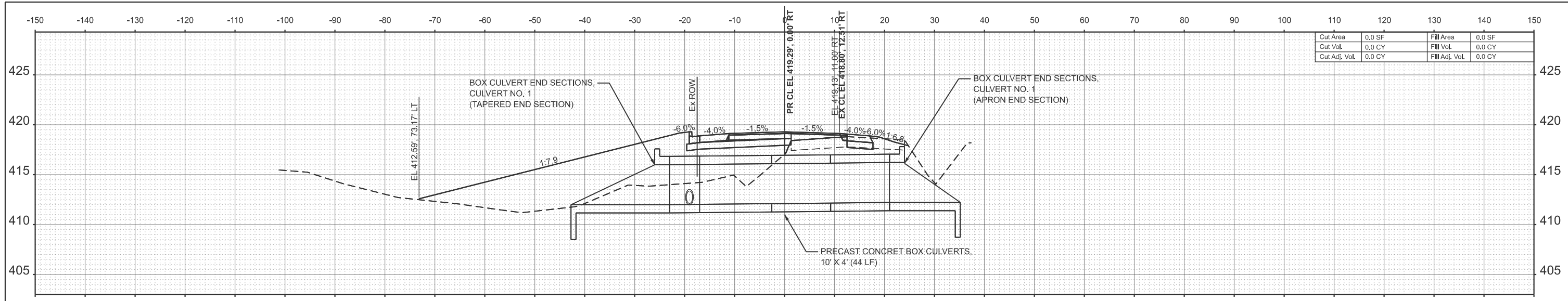
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**CROSS SECTIONS  
SOUTH MARKET STREET**

SCALE: 1"=10'    SHEET 6 OF 14 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	44
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



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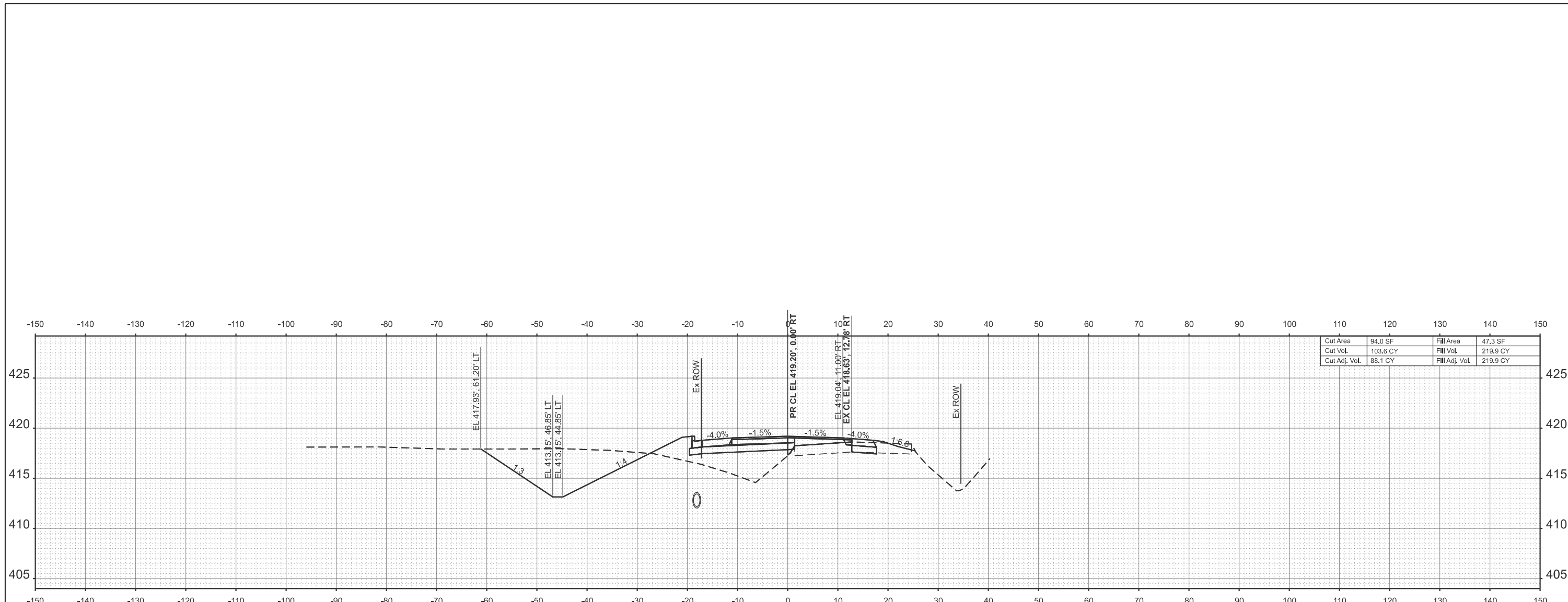


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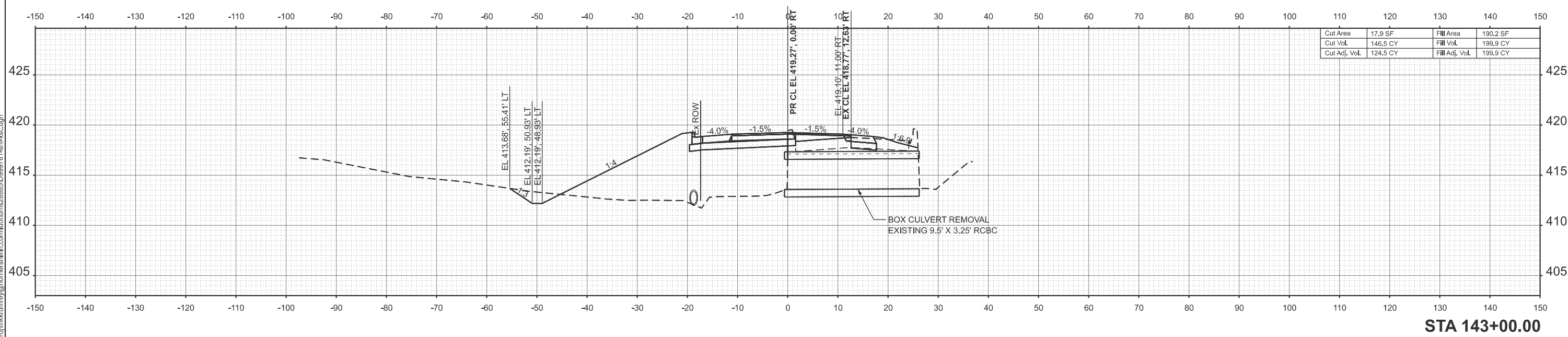
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9638	24-00133-00-SP	WILLIAMSON	52	45
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

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Cut Area	94.0 SF	Fill Area	47.3 SF
Cut Vol.	103.6 CY	Fill Vol.	219.9 CY
Cut Adj. Vol.	88.1 CY	Fill Adj. Vol.	219.9 CY

STA 143+50.00



Cut Area	17.9 SF	Fill Area	190.2 SF
Cut Vol.	146.5 CY	Fill Vol.	199.9 CY
Cut Adj. Vol.	124.5 CY	Fill Adj. Vol.	199.9 CY

STA 143+00.00

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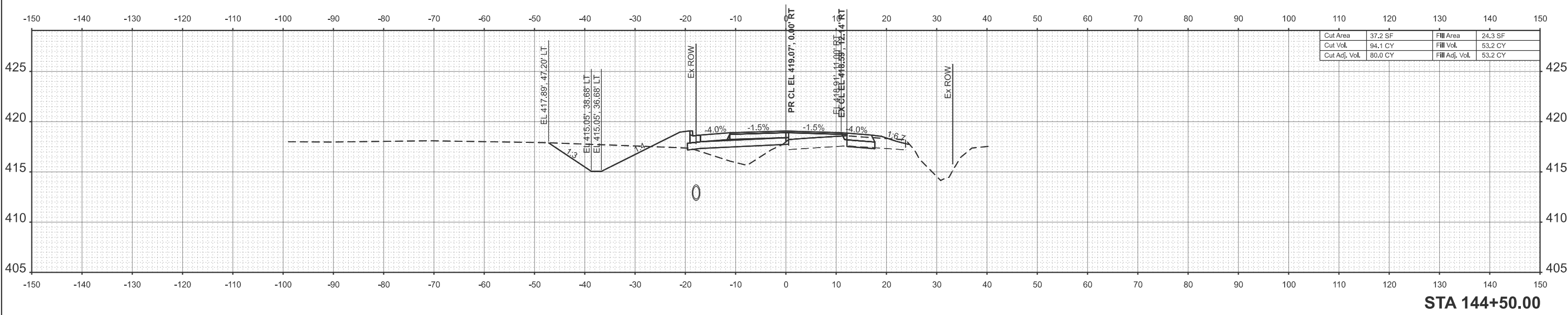


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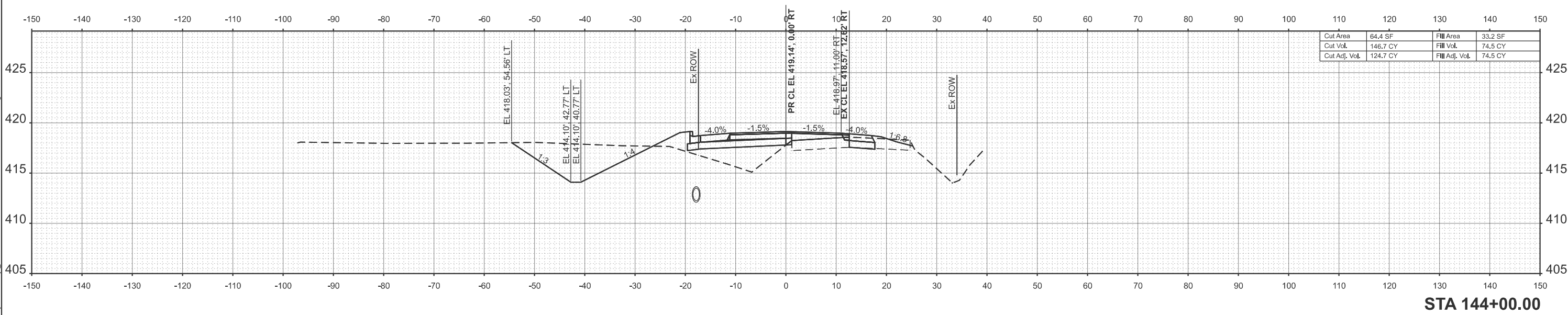
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9638	24-00133-00-SP	WILLIAMSON	52	46
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

H&S JOB 242106



STA 144+50.00



STA 144+00.00

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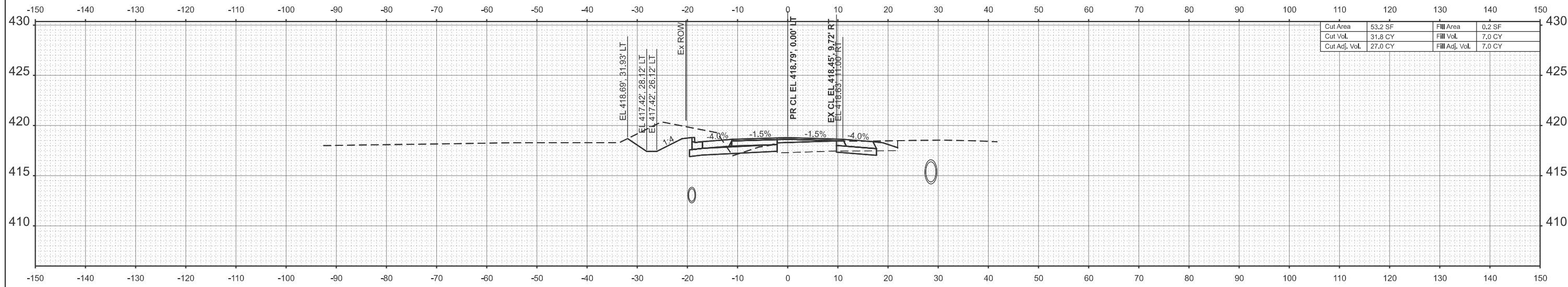
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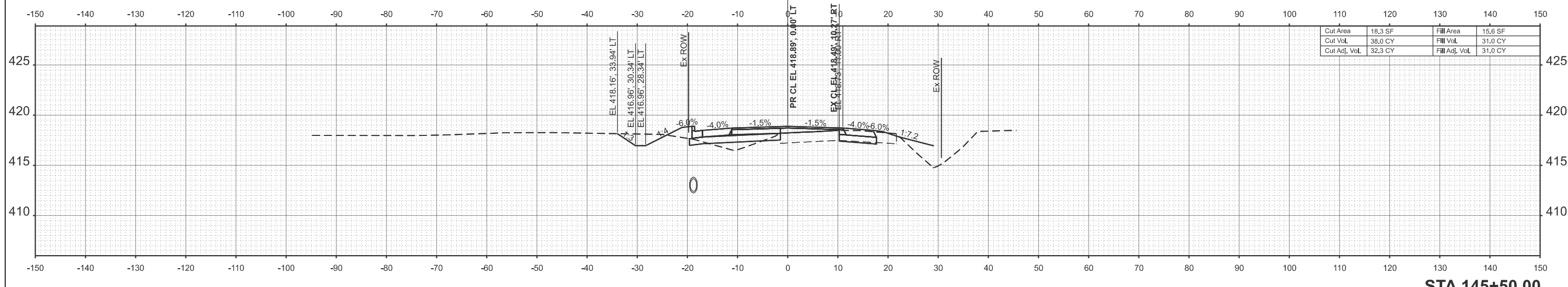
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



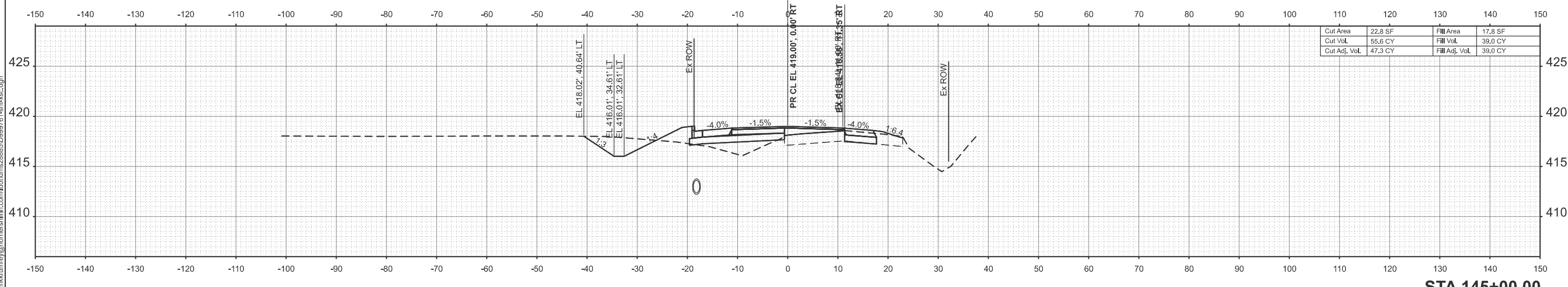
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Cut Adj. Vol.	27.0 CY	Fill Adj. Vol.	7.0 CY

**STA 145+74.00**



Cut Area	18.3 SF	Fill Area	15.6 SF
Cut Vol.	38.0 CY	Fill Vol.	31.0 CY
Cut Adj. Vol.	32.3 CY	Fill Adj. Vol.	31.0 CY

**STA 145+50.00**



Cut Area	22.8 SF	Fill Area	17.8 SF
Cut Vol.	55.6 CY	Fill Vol.	39.0 CY
Cut Adj. Vol.	47.3 CY	Fill Adj. Vol.	39.0 CY

**STA 145+00.00**

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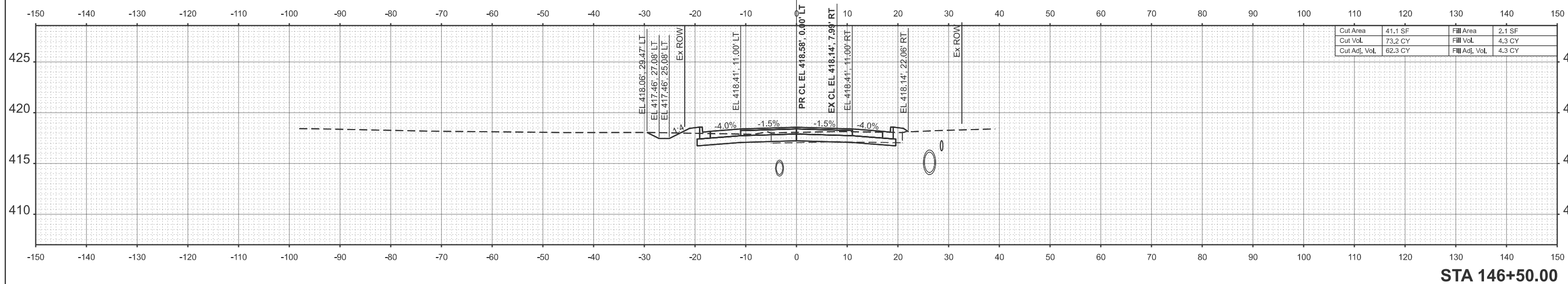
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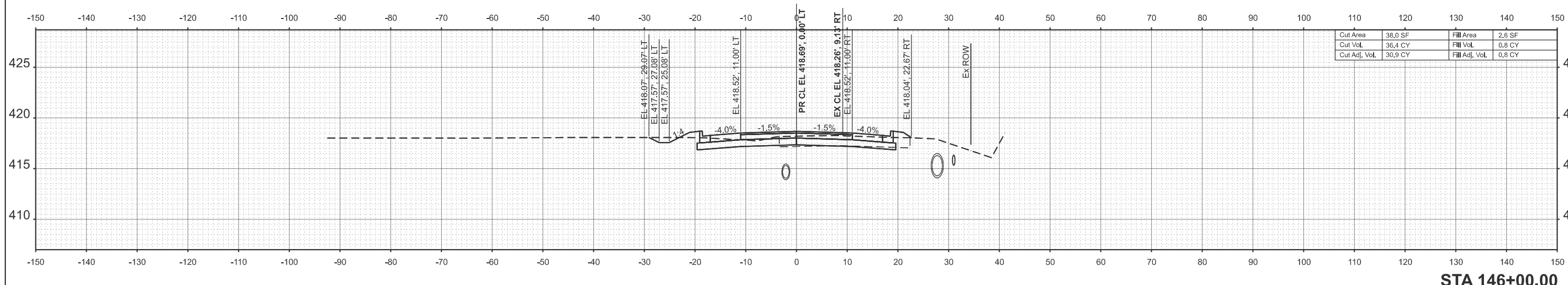
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SCALE: 1"=10'	SHEET 10	OF 14 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	48
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

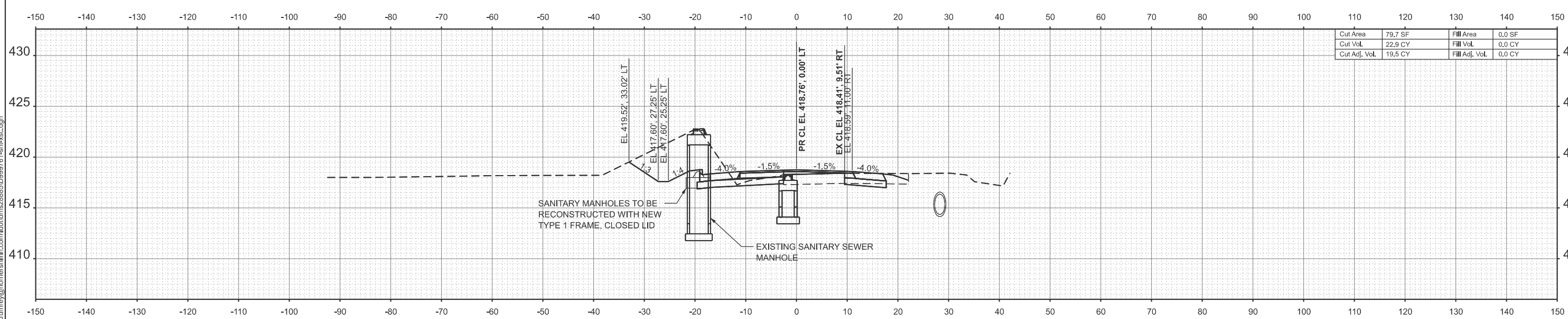
H&S JOB 242106



STA 146+50.00



STA 146+00.00



STA 145+83.30

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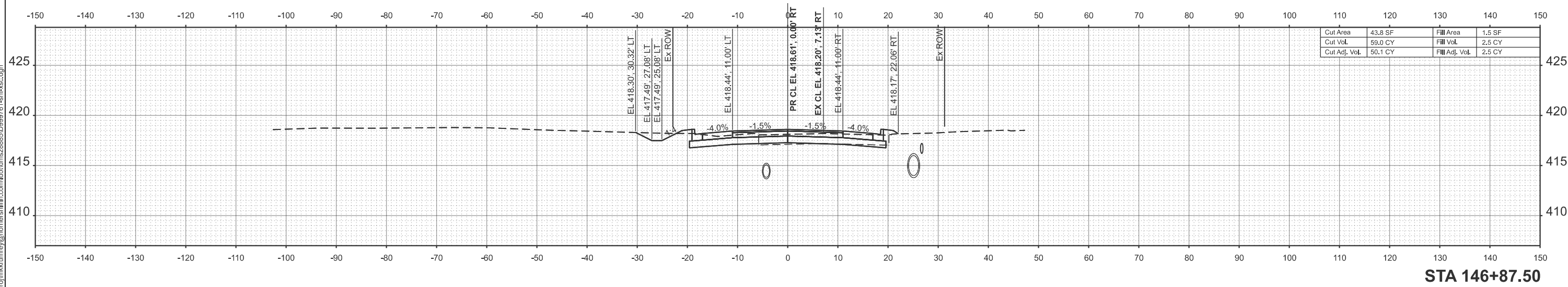
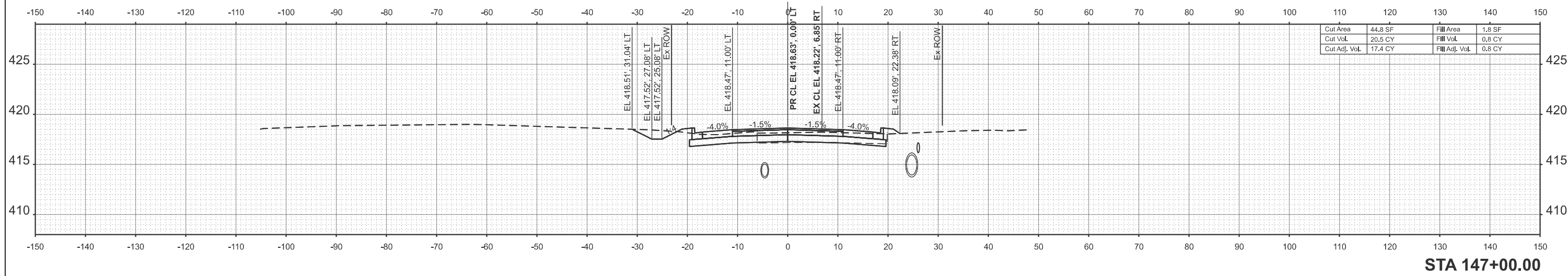
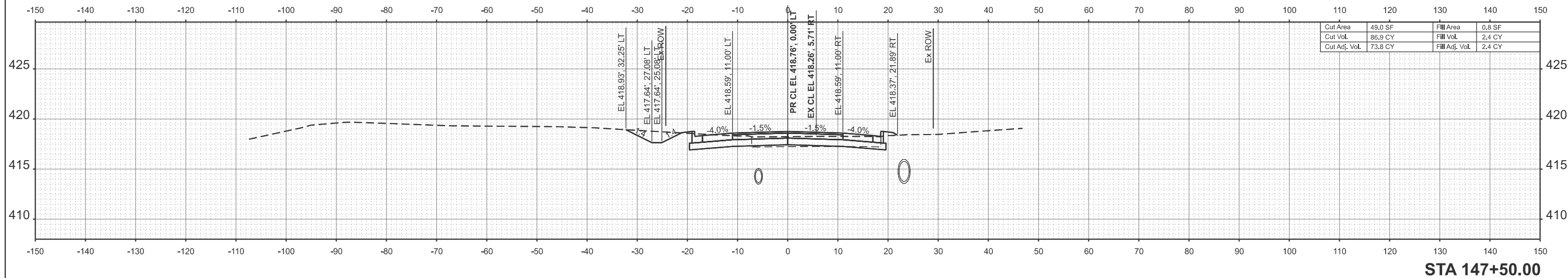
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CROSS SECTIONS  
SOUTH MARKET STREET  
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SHEET 11 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	49
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

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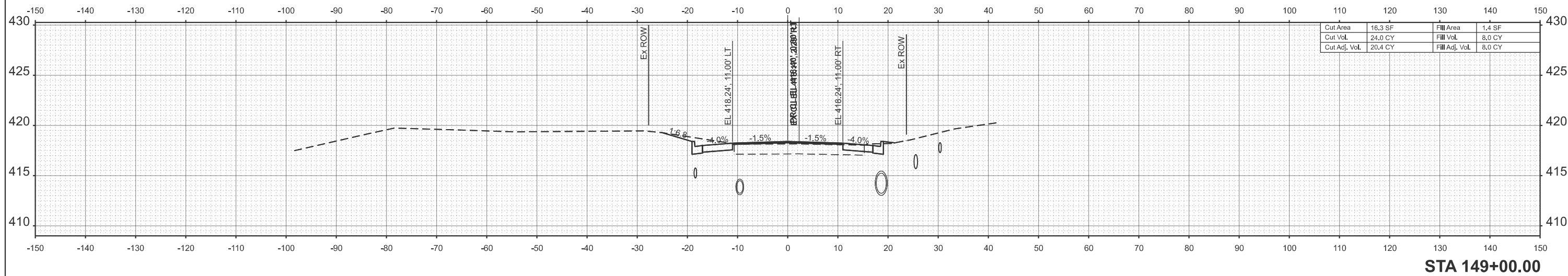
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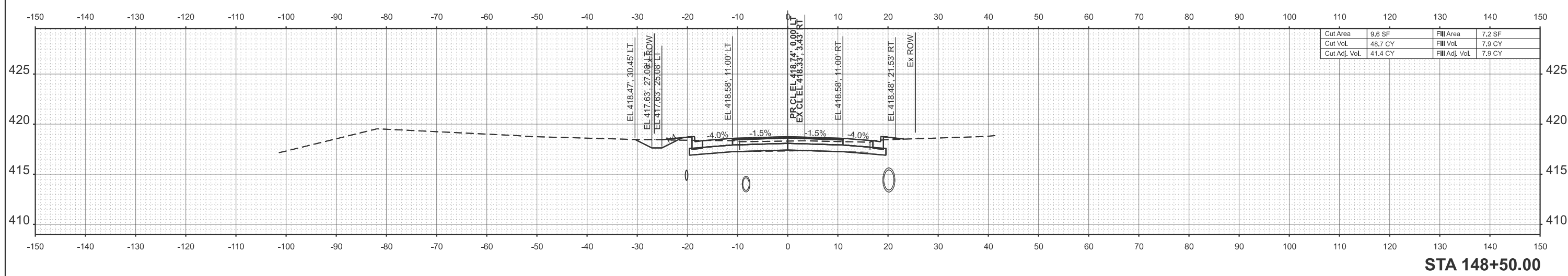
**CROSS SECTIONS  
SOUTH MARKET STREET**

SCALE: 1"=10'    SHEET 12 OF 14 SHEETS    STA.    TO STA.

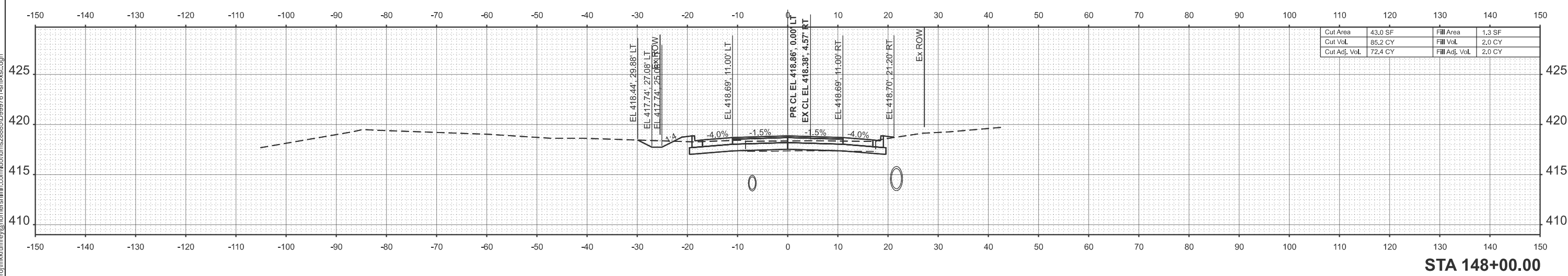
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	50
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				



**STA 149+00.00**



**STA 148+50.00**



**STA 148+00.00**

MODEL: PCI - 148+00.00 (Sheet)  
 FILE NAME: c:\p\proj\mkkrumrey\homereshfrin\camb\d\ms28885\0999761-shr-xsc.dgn



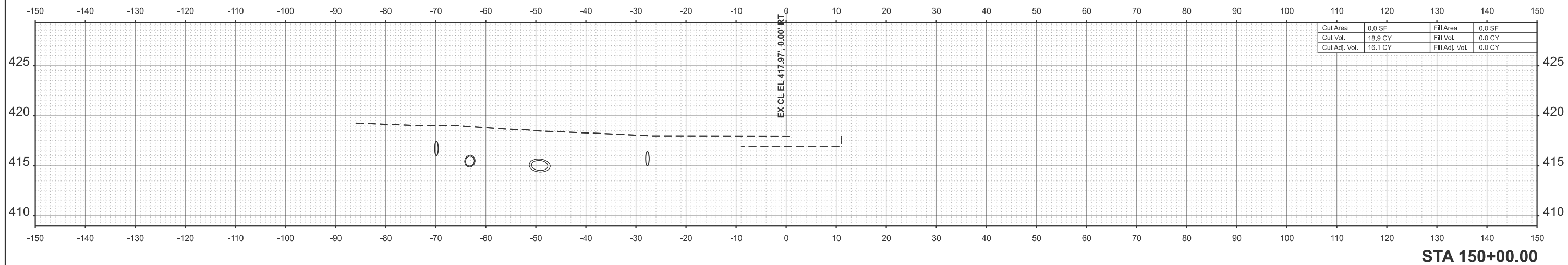
USER NAME = mikkrumrey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/6/2026	DATE -	REVISED -



<b>CROSS SECTIONS SOUTH MARKET STREET</b>			
SCALE: 1"=10'	SHEET 13	OF 14 SHEETS	STA. TO STA.

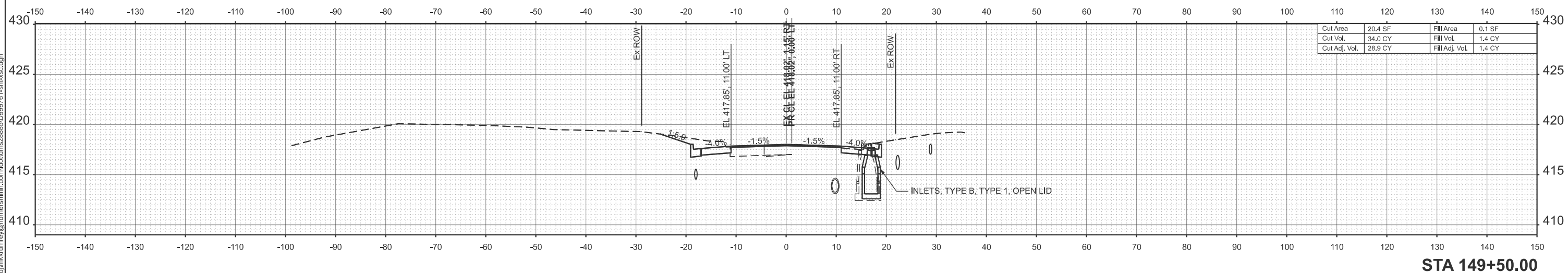
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	51
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

H&S JOB 242106



Cut Area	0.0 SF	Fill Area	0.0 SF
Cut Vol.	18.9 CY	Fill Vol.	0.0 CY
Cut Adj. Vol.	16.1 CY	Fill Adj. Vol.	0.0 CY

STA 150+00.00



Cut Area	20.4 SF	Fill Area	0.1 SF
Cut Vol.	34.0 CY	Fill Vol.	1.4 CY
Cut Adj. Vol.	28.9 CY	Fill Adj. Vol.	1.4 CY

STA 149+50.00

MODEL: PCI - 149+50.00 (Sheet)  
FILE NAME: c:\paprj\mkkrumrey\homereshfrin\c:\paprj\mkkrumrey@homereshfrin.com\d\ms28885D999761-shr-xsc.dgn



USER NAME = mikkrumrey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/6/2026	DATE -	REVISED -



**CROSS SECTIONS  
SOUTH MARKET STREET**

SCALE: 1"=10' SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9638	24-00133-00-SP	WILLIAMSON	52	52
CONTRACT NO. 99761				
ILLINOIS FED. AID PROJECT				

H&S JOB 242106