

08-01-2025 LETTING ITEM 086

CITY OF HERRIN

RITTER ROAD PHASE II

FOR INDEX OF SHEETS, SEE SHEET NO. 2

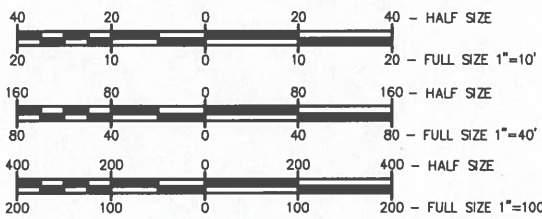
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE CITY OF HERRIN
FOR PUBLIC WORKS INFORMATION CALL 618-942-3178

COUNTY: WILLIAMSON
ROUTE NO.: FAU 9719
SECTION NO.: 06-00054-00-FP
PROJECT NO.: WLF4(577)
JOB NO.: C-99-524-07

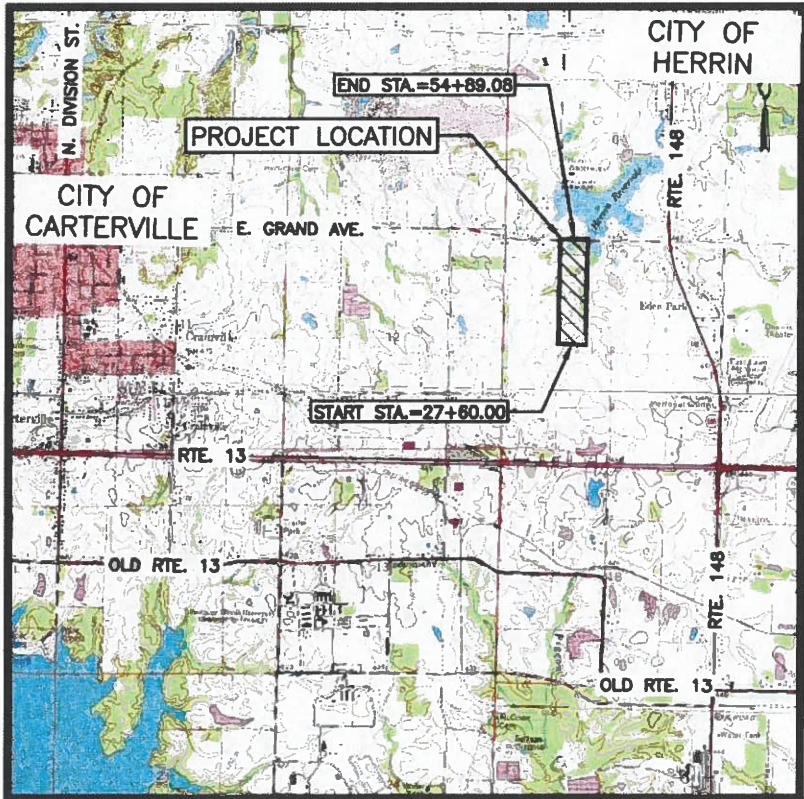
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	01	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

TRAFFIC DATA - ROAD NAME
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
2025 ADT - NEW CONSTRUCTION
2045 - 1750 (3% HCV)
POSTED SPEED = 45 MPH
DESIGN SPEED = 45 MPH



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALE. 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. - CALL BEFORE YOU DIG
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123 OR 811



LOCATION MAP
(NTS)



STATE OF ILLINOIS
(NTS)

DEVELOPMENT NOTES

- GROSS LENGTH (RITTER ROAD) = 2729.08 FT. = 0.517 MILE
- NET LENGTH (RITTER ROAD) = 2729.08 FT. = 0.517 MILE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	2/15/2025
MAYOR, CITY OF HERRIN	
PASSED	4/12/2025
DISTRICT 9 ENGINEER OF LOCAL ROADS & STREETS	
RELEASING FOR BID BASED ON LIMITED REVIEW	4/12/2025
DEPUTY DIRECTOR OF HIGHWAYS, REGION 8 ENGINEER	

W. Brian Ziegler
WILLIAM BRIAN ZIEGLER, P.E.
DATE 3-27-2025



ENGINEER:
HORNER SHIFRIN
410 N. COURT ST., MARION, IL 62959
618-993-6411 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL DESIGN FIRM LS/PE/SE CORPORATION
CERTIFICATE OF AUTHORITY: 184.000435
HS Project # 11120

P:\1120 Herrin Rushing Connector\2020 Phase II Ritter Road\Drawings - Plans\02 IDX Notes STDs.dwg 4--10--25 11:35:58 AM mlkumrey

INDEX OF SHEETS

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4	SUMMARY OF QUANTITIES
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9	GENERAL LAYOUT
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11	P&P - (STA 38+00.00 TO 50+00.00)
12	P&P - (STA 50+00.00 TO 54+88.76)
13	STORM P&P - STA. 29+25.00
14	STORM P&P - STA. 42+29.95
15	STORM P&P - STA. 51+90.00
16	SWPPP - (STA 27+00.00 TO 38+00.00)
17	SWPPP - (STA 38+00.00 TO 55+50.00)
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22	DETAILS - INLETS
23	HEADWALL - 1 OF 2
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25	HEADWALL - INFO
26	INTERSECTION DETAIL
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HIGHWAY STANDARDS

STD. NO.	TITLE
000001-08	Standard Symbols, Abbreviations and Patterns
001001-02	Areas of Reinforcement Bars
001006	Decimal of an Inch and of a Foot
202001-01	Earth Median Ditch Check
280001-07	Temporary Erosion Control Systems
420001-10	Pavement Joints
424001-12	Perpendicular Curb Ramps for Sidewalks
542301-03	Precast Reinforced Concrete Flared End Section
606001-08	Concrete Curb Type B and Combination Concrete Curb and Gutter
701201-05	Lane Closure, 2L 2W, Day Only for Speeds ≥ 45 MPH
701901-10	Traffic Control Devices
720011-01	Metal Posts for Signs, Markers and Delineators
780001-05	Typical Pavement Markings
878001-11	Concrete Foundation Details
BLR 21-9	Typical App of Traffic Control Devices for Construction Rural Local Highways

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	02	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

*LEGEND

DESCRIPTION	EXISTING	PROPOSED
FIRE HYDRANT W/ AUXILIARY VALVE		
WATER METER		
GATE VALVE		
WATER SAMPLE SITE LOCATION		
INTERCONNECTION		
WATERMAIN		
SANITARY SEWER MANHOLE		
SANITARY SEWER - GRAVITY		
SANITARY SEWER - FORCEMAIN		
YELLOWMINE BORE (FOR ALL UTILITIES)		
SERVICE CONNECTION & RECONNECTION		
STORM SEWER MANHOLE		
STORM SEWER INLETS		
STORM SEWER FLARED END SECTION		
STORM SEWER		
FLOWLINE		
ELECTRIC - UNDERGROUND		
ELECTRIC - OVERHEAD		
POWER POLE		
SIGNAGE		
FENCE		
UNDERGROUND COMMUNICATIONS		
TELEPAD		
TREE		
TREELINE		
RIGHT-OF-WAY		
EASEMENT		
GRAVEL SURFACE		
ASPHALT SURFACE		
CONCRETE SURFACE		

*ABBREVIATIONS

BOTTOM OF CURB	BOC	NORTH	(N)
BY OTHERS	CO	NOT TO SCALE	NTS
CURB INLET	CI	SOLID WHITE PAINT	SWP
CURB AND GUTTER	C&G	SOUTH	(S)
DO NOT DISTURB	DND	SOLID YELLOW PAINT	(E)
EAST	(E)	STOP BAR	SB
FLAT BOTTOM DITCH	FBD	STORM WATER POLLUTION PLAN	SWPPP
GAS LINE	GAS	STREET	ST
HYDRAULIC GRADE LINE	HGL	TOP BACK OF CURB	TBC
INTERMITTENT WHITE PAINT	IWP	TOP OF CASTING	TC
INTERMITTENT YELLOW PAINT	IYP	TOP OF WALL	TW
MATCH EXISTING	ME	TO BE ABANDONED	TBA
MAXIMUM	MAX	WEST	(W)
MINIMUM	MIN	YEAR	YR
NUMBER	NO OR #		

* INDICATES SUPPLEMENTAL LINETYPES AND ABBREVIATIONS FROM THE HIGHWAY STANDARDS FOR ALL MISSING ITEMS, SEE THE LIST OF HIGHWAY STANDARDS

DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159 EXPIRATION DATE: DECEMBER 31, 2023			
STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515			
REVISIONS		© 2023 ALL RIGHTS RESERVED	
DATE	NO.	 410 NORTH COURT ST, MARION, ILLINOIS 622959 618-993-6411 FAX 618-993-6750 WWW.HORNERSHIFRIN.COM	
		GENERAL NOTES & HIGHWAY STANDARDS RITTER ROAD PHASE II CITY OF HERRIN, ILLINOIS	
		Date 04/2025	DR. By CWB CK'D By JVZ
		Scale #1"=###'	Job No. 11120 Sheet No. 02 of 39

E:\1120 Herrin Rushing Connector\2020 Phase II Ritter Road\Drawings - Plans\03a Notes.dwg 4-01-25 02:16:53 PM mtkrumrey

GENERAL NOTES

1. UNLESS MODIFIED BY THE PROJECT SPECIFICATIONS, ALL SITE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS 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.
2. THE LOCATIONS, SIZE, MATERIAL, DESCRIPTION OR TYPE OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE TO HAVE ALL UNDERGROUND UTILITIES LOCATED AND SUITABLY MARKED. THE UTILITIES ON THIS PROJECT SHALL BE CONTACTED BY THE CONTRACTOR BY CALLING THE JOINT UTILITY INFORMATION FOR EXCAVATORS (JULIE), PHONE 1-800-892-0123. JULIE SHOULD BE CONTACTED A MINIMUM OF 96 HOURS IN ADVANCE OF CONSTRUCTION.
3. RADII DENOTED BY ASTERISKS(*) ARE APPROXIMATE AND TO BE FIT IN THE FIELD BETWEEN THE NEW CURB AND EXISTING CURB.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THE GRADE TO THE DESIGN ELEVATIONS CHANGED BY NATURAL CAUSES UNTIL ACCEPTED BY THE OWNER FOR COMPLIANCE TO PLANS.
5. THE CONTRACTOR SHALL PERFORM IN THE BEST AND MOST WORKMANLIKE MANNER A COMPLETE GRADING AND COMPACTION OPERATION AS SHOWN ON THE PLANS, OR AS STATED IN THE SPECIFICATIONS PREPARED BY THE ENGINEER.
6. THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE DESIGNATED WORK AREAS.
7. THE CONTRACTOR SHALL NOT DESTROY OR DAMAGE ANY TREES OTHER THAN THOSE WITHIN THE GRADING AREAS.

GENERAL UTILITY NOTES

1. 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.
2. 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 HOURS IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR CROSSING OF ANY EXISTING UTILITIES.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9719	06-00054-00-FP	WILLIAMSON	03	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159				
EXPIRATION DATE: DECEMBER 31, 2023				
STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515				
REVISIONS		© 2023 ALL RIGHTS RESERVED  410 NORTH COURT ST, MARION, ILLINOIS 622959 618-993-6411 FAX 618-993-6750 WWW.HORNERSHIFRIN.COM		
DATE	NO.			
		GENERAL NOTES RITTER ROAD PHASE II CITY OF HERRIN, ILLINOIS		
		Date 04/2025	DR. By CWB	CK'D By JVZ
		Scale #'-##"	Job No. 11120	Sheet No. 03 of 39

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SUMMARY OF QUANTITIES

		ROUTE: FAU 9719 (RITTER ROAD)	
		COUNTY:	WILLIAMSON
		LOCATION:	URBAN
		FUNDING:	80% STU/HPP 20% LOCAL
		TYPE CODE:	ROADWAY, NEW CONSTRUCTION 0001
CODE NO.	ITEM	UNIT	QUANTITY
* 20100500	TREE REMOVAL, ACRES	ACRE	4.04
20200100	EARTH EXCAVATION	CU YD	5895
20400800	FURNISHED EXCAVATION	CU YD	4259
20700220	POROUS GRANULAR EMBANKMENT	CU YD	46
20800150	TRENCH BACKFILL	CU YD	531
* 25000200	SEEDING, CLASS 2	ACRE	4
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	361
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	361
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	361
* 25000700	AGRICULTURAL GROUND LIMESTONE	TON	8
* 25100115	MULCH, METHOD 2	ACRE	4
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1600
28000305	TEMPORARY DITCH CHECKS	FOOT	610
28000400	PERIMETER EROSION BARRIER	FOOT	1921

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

		ROUTE: FAU 9719 (RITTER ROAD)	
		COUNTY:	WILLIAMSON
		LOCATION:	URBAN
		FUNDING:	80% STU/HPP 20% LOCAL
		TYPE CODE:	ROADWAY, NEW CONSTRUCTION 0001
CODE NO.	ITEM	UNIT	QUANTITY
28000500	INLET AND PIPE PROTECTION	EACH	31
28100107	STONE RIPRAP, CLASS A4	SQ YD	266
28200200	FILTER FABRIC	SQ YD	266
31100500	SUBBASE GRANULAR MATERIAL, TYPE A 6"	SQ YD	10170
42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	808
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	250
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	26582
42400800	DETECTABLE WARNINGS	SQ FT	20
44000100	PAVEMENT REMOVAL	SQ YD	346
44000600	SIDEWALK REMOVAL	SQ FT	1000
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
54010803	PRECAST CONCRETE BOX CULVERTS 8' X 3'	FOOT	56
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	76
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	4
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	4

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	04	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

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HORNER SHIFRIN

410 NORTH COURT ST,
MARRON, ILLINOIS 622959
618-993-6411 FAX 618-993-6750
WWW.HORNERSHIFRIN.COM

SUMMARY OF QUANTITIES
RITTER ROAD PHASE II
CITY OF HERRIN, ILLINOIS

Date	04/2025	DR. By	CWB	CK'D By	JVZ
Scale	#'-###'	Job No.	11120	Sheet No.	04 of 39

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SUMMARY OF QUANTITIES

		ROUTE: FAU 9719 (RITTER ROAD)	
		COUNTY: WILLIAMSON	
		LOCATION: URBAN	
		FUNDING: 80% STU/HPP 20% LOCAL	
		TYPE CODE: ROADWAY, NEW CONSTRUCTION 0001	
CODE NO.	ITEM	UNIT	QUANTITY
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	1385
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	220
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	301
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	394
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	66
60262700	INLETS TO BE RECONSTRUCTED	EACH	2
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	371
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	42
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	13
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	30
* 78004210	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 4"	FOOT	745

SUMMARY OF QUANTITIES

		ROUTE: FAU 9719 (RITTER ROAD)	
		COUNTY: WILLIAMSON	
		LOCATION: URBAN	
		FUNDING: 80% STU/HPP 20% LOCAL	
		TYPE CODE: ROADWAY, NEW CONSTRUCTION 0001	
CODE NO.	ITEM	UNIT	QUANTITY
* 78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	40
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	745
* 78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	40
X6024240	INLETS (SPECIAL)	EACH	28
# Z0076600	TRAINEES	HOURL	1000
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	1000
LR4210129	PORTLAND CEMENT CONCRETE PAVEMENT 8" (SPECIAL) WITH INTEGRAL CURB	SQ YD	8988

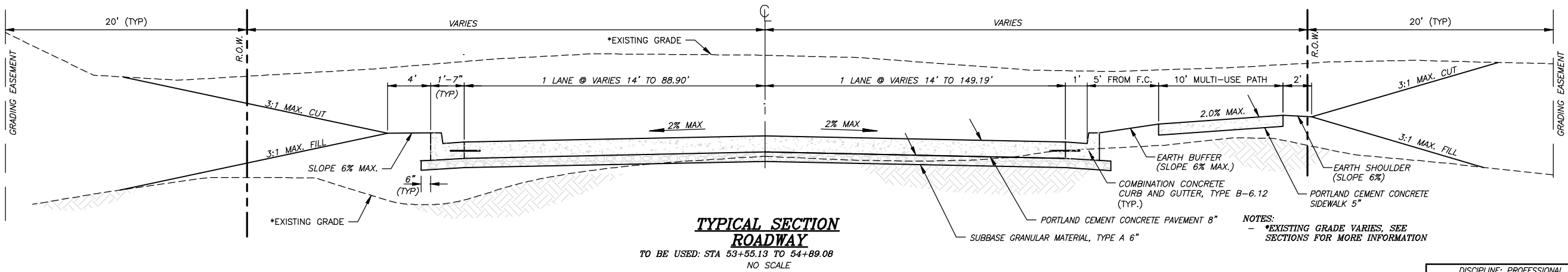
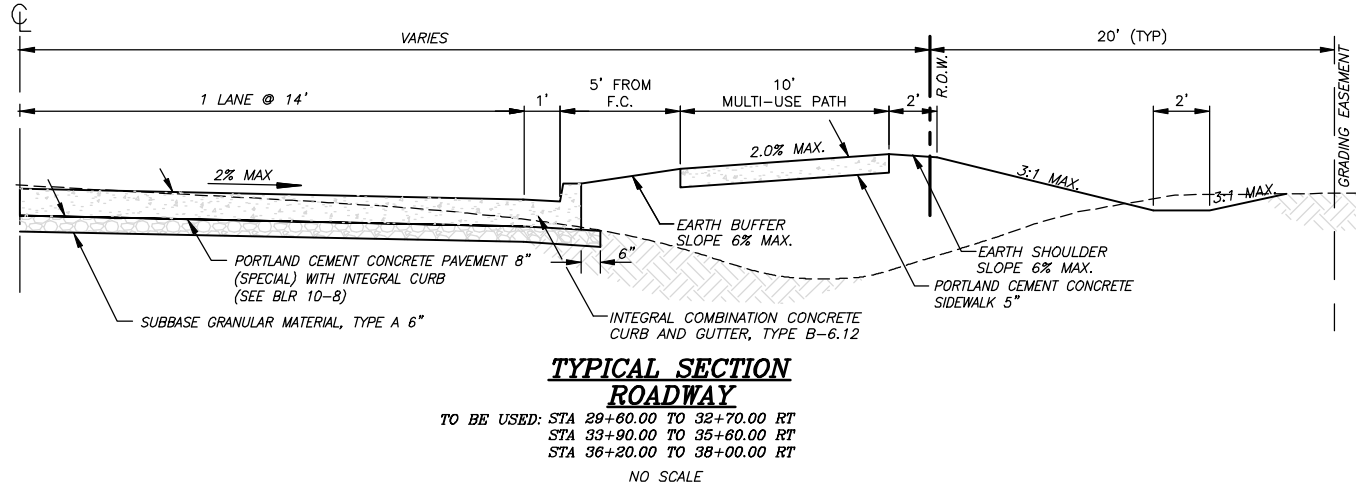
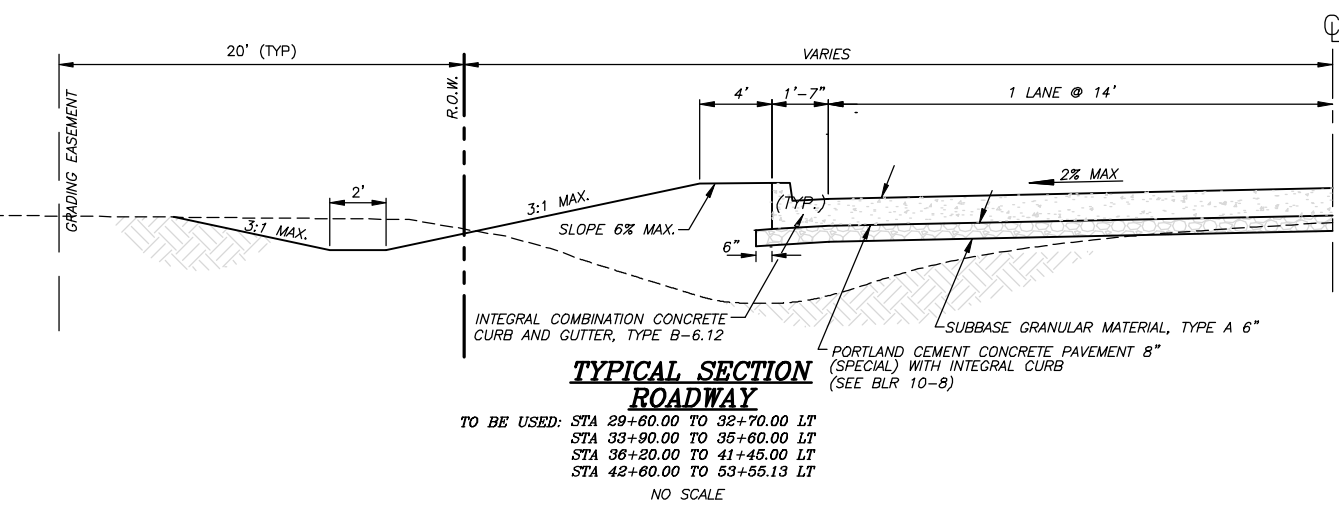
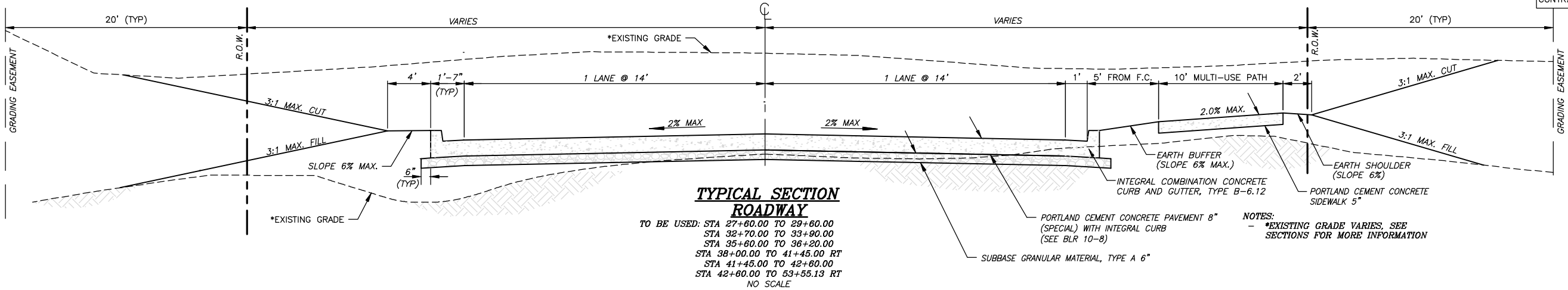
- # 0042
- * SPECIALTY ITEM

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	05	39
ILLINOIS		RITTER ROAD PHASE II		

CONTRACT NO. 99284

REVISIONS		© 2023 ALL RIGHTS RESERVED  410 NORTH COURT ST, MARION, ILLINOIS 622959 618-993-6411 FAX 618-993-6750 WWW.HORNERSHIFRIN.COM		
DATE	NO.			
		SUMMARY OF QUANTITIES RITTER ROAD PHASE II CITY OF HERRIN		
		Date 04/2025	DR. By MKK	CK'D By JVZ
		Scale #'-##"	Job No. 11120	Sheet No. 05 of 39

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	06	39
ILLINOIS		RITTER ROAD PHASE II		
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REVISIONS		© 2023 ALL RIGHTS RESERVED HORNER SHIFRIN 410 NORTH COURT ST, MARION, ILLINOIS 622959 618-993-6411 FAX 618-993-6750 WWW.HORNERSHIFRIN.COM TYPICAL SECTIONS RITTER ROAD PHASE II CITY OF HERRIN, ILLINOIS	
DATE	NO.		
		Date 04/2025	DR. By CWB CK'D By JVZ
		Scale NTS	Job No. 11120 Sheet No. 06 of 39

P:\11120 Herrin Rushing Connector\2020 Phase II Ritter Road\Drawings - Plans\05 Schedules.dwg 4-01-25 02:18:45 PM mklcrumrey

EARTHWORK SCHEDULE					
LOCATION/STATION	20200100	FOR INFORMATION ONLY		20400800	NOTES
	EARTH EXCAVATION	EARTH EXC. ADJUSTED FOR SHRINKAGE (20%)	EMBANKMENT	FURNISHED EXCAVATION	
	CU YD	CU YD	CU YD	CU YD	
29+25					
27+60 to 54+89	5,895	4,716	8,975	4,259	
TOTALS	5,895	4,716	8,975	4,259	

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
28+50 TO 54+50	3.75	3.75	337.5	337.5	337.5	1,500	7.5
0+50 TO 4+50	0.25	0.25	23.0	23.0	23.0	100	0.5
TOTALS	4.00	4.00	361	361	361	1,600	8.0

* TEMPORARY SEEDING 4 APPLICATIONS AT 100 LB PER ACRE

ROADWAY & M-U PATH								
LOCATION/STATION	LR420129	31100500	42000300	42400200	42400800	44000100	44000600	60603800
	PCC PAVEMENT 8" (SPECIAL) WITH INTEGRAL CURB	SUBBASE GRANULAR MATERIAL, TYPE A 6"	PORTLAND CEMENT CONCRETE PAVEMENT 8"	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNINGS	PAVEMENT REMOVAL	SIDEWALK REMOVAL	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
	SQ YD	SQ YD	SQ YD	SQ FT	SQ FT	SQ YD	SQ FT	FOOT
RT. STA. 27+60 TO RT. STA. 54+45.00				26,582				
RT. STA. 27+60 TO RT. STA. 28+60						346	1,000	
RT. 54+45					20			
27+60 TO 53+55.13	8,988	9,273						
STA. 53+55.13 TO STA. 54+88.76		897	808					
LT. STA. 53+55.13 TO STA. LT. 54+88.76								163
RT. STA. 53+55.13 TO RT. STA. 54+88.76								208
TOTALS	8,988	10,170	808	26,582	20	346	1,000	371

TREE REMOVAL SCHEDULE		
LOCATION/STATION	20100500	COMMENTS
	TREE REMOVAL	
	ACRES	
RT. STA. 29+77 TO RT. 30+82	0.10	Final TREE REMOVAL limits shall be determined by the Engineer in the field
STA. 32+90 TO STA. 48+50	2.73	
STA. 50+00 TO STA. 54+87	1.21	
TOTALS	4.04	

SIGN SCHEDULE				
LOCATION/STATION	72000100		72800100	COMMENTS
	SIGN PANEL - TYPE 1		TELESCOPING STEEL SIGN SUPPORT	
	NO.	SQ FT	FOOT	
RT. 49+50	W3-1A	6.25	15	STOP AHEAD 30"X30"
RT. 54+50	R1-1	6.25	15	STOP SIGN 30"X 30"
TOTALS		12.5	30	

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
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ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

EROSION CONTROL				
LOCATION/STATION	28000400	28000305	28000500	NOTES
	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET & PIPE PROTECT.	
	FOOT	FOOT	EACH	
STA. 28+59 TO 29+11 LT	53			
STA. 28+59 TO 29+00 RT	42			
STA. 29+25 LT			1	
STA. 29+24 TO 30+54 RT		162		3 LOCATIONS, 54 FT EA
STA. 29+40 LT & RT			2	
STA. 29+60 TO 32+70 LT & RT		84		6 LOCATIONS, 14 FT EA
STA. 31+40 LT & RT			2	
STA. 32+68 TO 33+92 RT	123			
STA. 32+70 TO 33+90 LT	120			
STA. 33+50 LT & RT			3	
STA. 33+90 TO 35+60 LT & RT		56		4 LOCATIONS, 14 FT EA
STA. 35+58 TO 36+21 RT	63			
STA. 35+61 TO 36+22 LT	63			
STA. 35+90 LT			1	
STA. 36+20 TO 38+20 RT		42		3 LOCATIONS, 14 FT EA
STA. 36+20 TO 41+45 LT		84		6 LOCATIONS, 14 FT EA
STA. 37+79 RT			1	
STA. 37+80 LT			1	
STA. 38+19 TO 42+17 RT	409			
STA. 42+39 TO 51+93 RT	938			
STA. 39+30 LT & RT			2	
STA. 40+80 LT & RT			2	
STA. 41+42 TO 42+51	110			
STA. 42+30 LT & RT			3	
STA. 42+50 TO 54+60 LT		182		13 LOCATIONS, 14 FT EA
STA. 43+80 LT & RT			2	
STA. 45+40 LT & RT			2	
STA. 48+50 LT & RT			2	
STA. 50+20 LT & RT			2	
STA. 51+90 LT & RT			3	
STA. 54+00 LT & RT			2	
TOTALS	1,921	610	31	

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184--004515				
REVISIONS		© 2022 SHALL RIGHTS RESERVED  410 NORTH COURT ST, MARRION, ILLINOIS 62223-9539 618-993-PHONE1 618-FA9616-4993-6750 WWW.HORNERSHIFRIN.COM		
DATE	NO.			
		SCHEDULES		
		RITTER ROAD PHASE II		
		CITY OF HERRIN, ILLINOIS		
		Date 04/2023	DR. By PLD	CK'D By JZ
		Scale N.T.S.	Job No. 11120	Sheet No. 07 of TBD

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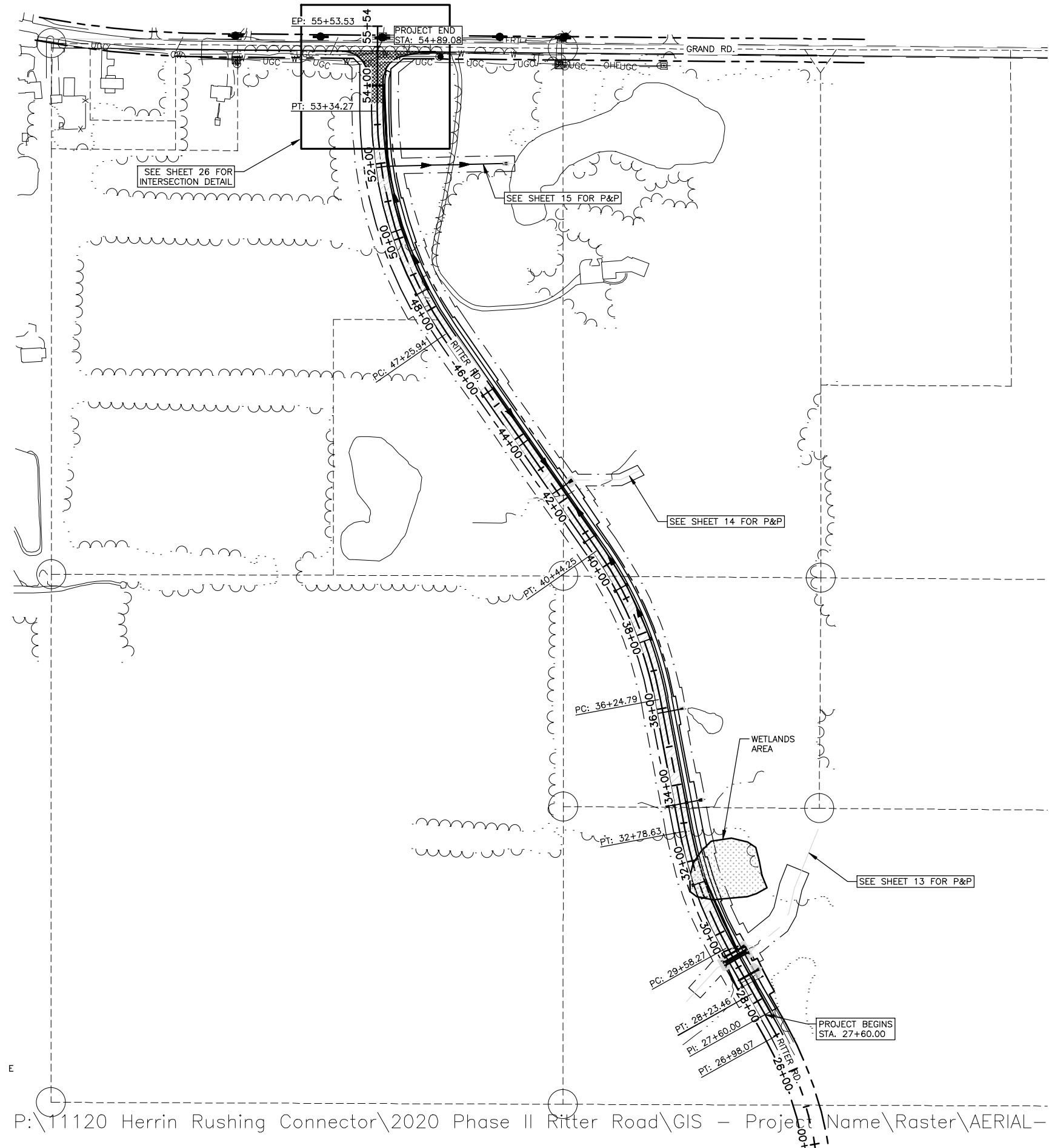
ROW MARKERS			
STATION	OFF SET	LT./RT.	66600105
			FURNISHING AND ERECTING RIGHT OF WAY MARKERS
			EACH
28+00.33	35.25	RT.	1
28+00.33	50.25	RT.	1
28+08.92	29.75	LT.	1
28+85.93	52.69	RT.	1
28+95.89	53.5	RT.	1
28+96.62	45.08	RT.	1
29+75.31	44.94	RT.	1
29+75.31	34.94	RT.	1
30+75.31	34.96	RT.	1
30+75.31	39.96	RT.	1
32+00.30	39.99	RT.	1
32+00.31	34.99	RT.	1
32+25.30	34.99	RT.	1
32+25.30	44.99	RT.	1
34+00.31	45	RT.	1
34+00.31	35	RT.	1
35+50.31	35	RT.	1
35+50.31	40	RT.	1
36+24.79	40	RT.	1
36+24.97	35	RT.	1
41+00.31	35	RT.	1
41+00.31	45	RT.	1
41+75.31	45	RT.	1
41+75.31	50	RT.	1
42+25.31	50	RT.	1
42+25.31	40	RT.	1
42+75.31	40	RT.	1
42+75.31	35	RT.	1
45+50.31	35	RT.	1
45+50.31	40	RT.	1
47+50.31	40	RT.	1
47+50.31	35	RT.	1
48+25.31	30	LT.	1
48+25.31	45	LT.	1
49+75.31	35	RT.	1
49+75.31	40	RT.	1
51+00.31	40	RT.	1
51+00.31	35	RT.	1
54+43.29	35	RT.	1
54+54.59	45	LT.	1
54+69.54	97.26	RT.	1
54+70.77	61.98	LT.	1
TOTALS			42

STORM SEWER AND CULVERTS																	
LOCATION/STATION		60262700	X6024240	550A0070	550A0090	550A0120	550A0140	550A0160	542A0223	54010803	54213663	54213675	54213681	54001001	28100107	28200200	20800150
		INLETS TO BE RECONSTRUCTED	INLETS, SPECIAL	STORM SEWERS, CLASS A, TYPE 1 15"	STORM SEWERS, CLASS A, TYPE 1 18"	STORM SEWERS, CLASS A, TYPE 1 24"	STORM SEWERS, CLASS A, TYPE 1 30"	STORM SEWERS, CLASS A, TYPE 1 36"	PIPE CULVERTS, CLASS A, TYPE 1 18"	PRECAST CONCRETE BOX CULVERTS 8' X 3' (NO. 1)	PRC FLARED END SECTIONS 18"	PRC FLARED END SECTIONS 30"	PRC FLARED END SECTIONS 36"	BOX CULVERT END SECTIONS, CULVERT NO. 1	STONE RIPRAP, CLASS A4	FILTER FABRIC	TRENCH BACKFILL
				FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	SQ YD	SQ YD	CU YD
28+49.76 RT		1															
28+50.87 LT		1															
28+70			2			31	20					1			5	5	
29+06 TO 29+51 RT															178	178	
29+09 TO 29+41 LT															20	20	
29+25										56				2			
29+40	S1a, S1b		2	31	17	31					1						12
29+40 TO 31+40 RT				197													34
31+40	S2a, S2b		2	31													4
33+50	S3a, S3b		2				78					2			5	5	22
35+86 TO 35+94 RT															5	5	
35+89.95									76		2						4
37+80	M1a, M1b		2	31													7
37+80 TO 39+30 RT				148													31
39+30	M2a, M2b		2	31													5
39+30 TO 40+80 RT				148													31
40+80	M3a, M3b		2	31													7
40+80 TO 42+30 RT				146													46
42+17 TO 42+39 RT															39	39	
42+30	M4a, M4b		2					66					2				41
42+30 TO 43+80 RT				146													44
43+80	M5a, M5b		2	31													6
43+80 TO 45+40 RT				156													19
45+40	M6a, M6b		2	31													6
48+50	N1a, N1b		2	31													9
48+50 TO 50+20 RT				165													46
50+20	N2a, N2b		2	31													8
50+20 TO 51+90 RT					164												62
51+29 TO 51+41															14	14	
51+35 TO 51+90 RT							296					1					10
51+90	N3a, N3b		2		39						1						12
51+90 TO 54+00 RT						205											61
54+00	N4a, N4b		2			34											4
TOTALS		2	28	1,385	220	301	394	66	76	56	4	4	2	2	266	266	531

PAVEMENT MARKING SCHEDULE				
LOCATION/STATION	78001110		78001180	COMMENTS
	PAINT PAVEMENT MARKING-LINE 4" (YELLOW SKIP-DASH)	PAINT PAVEMENT MARKING-LINE 4" (SOLID YELLOW)	PAINT PAVEMENT MARKING-LINE 24" (WHITE)	
	FOOT	FOOT	FOOT	
STA. 27+60 TO STA. 53+79	660			CENTER LINE SKIPS
STA. 53+79 TO STA. 54+64		85		SOLID CENTER LINE
RT. 54+64			40	STOP BAR
TOTALS	660	85	40	

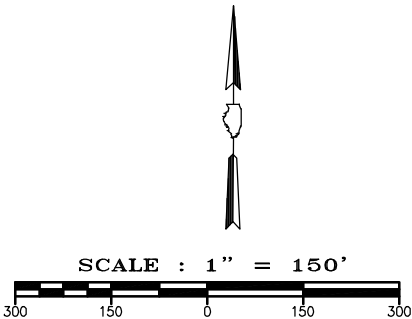
STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515			
REVISIONS		© 2023 ALL RIGHTS RESERVED  410 NORTH COURT ST, MARION, ILLINOIS 622959 618-993-6411 FAX 618-993-6750 WWW.HORNERSHIFRIN.COM ----- RITTER ROAD PHASE II CITY OF HERRIN	
DATE	NO.		
Date	04/2025	DR. By	CWB
		CK'D By	JVZ
Scale	#"=##"	Job No.	11120
		Sheet No.	08 of 39

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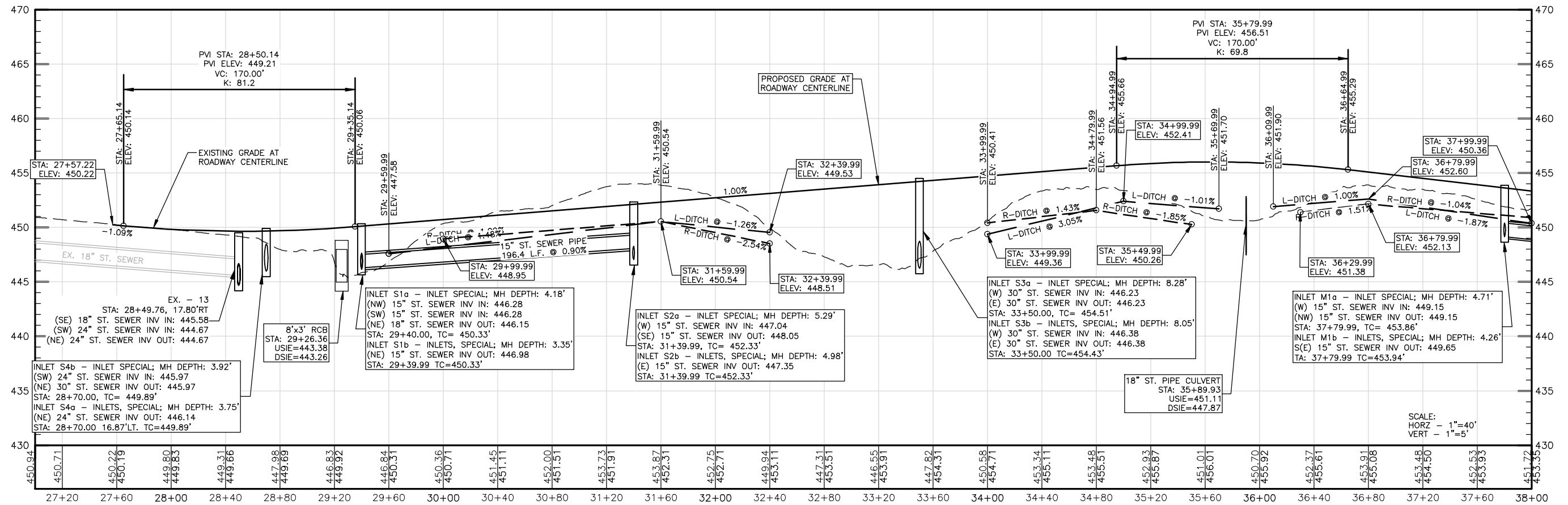
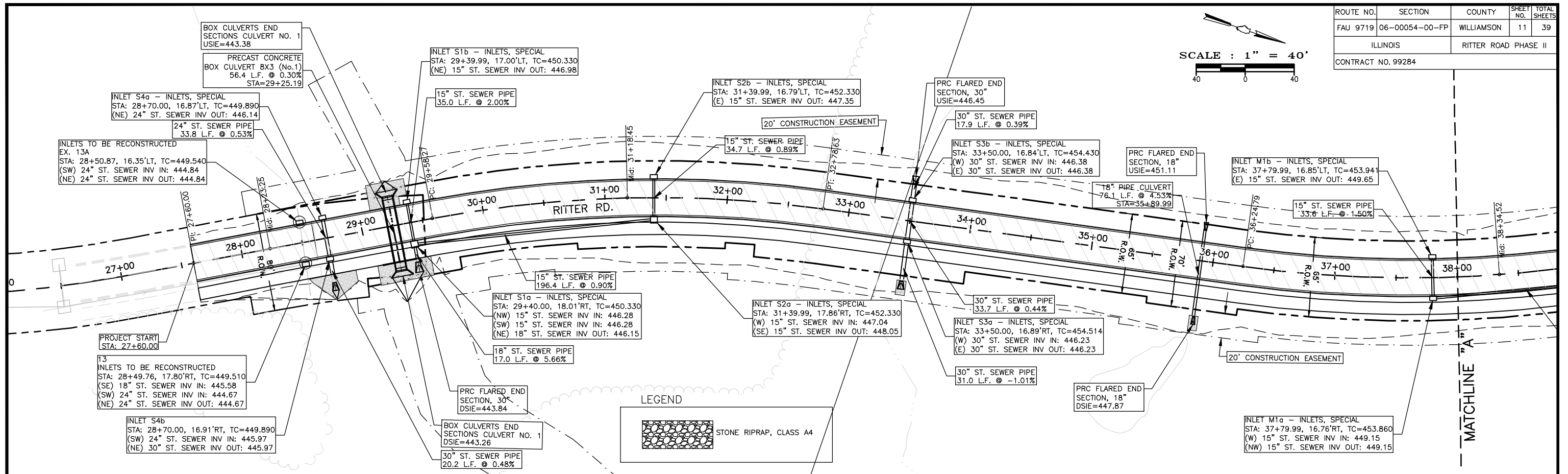
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	10	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

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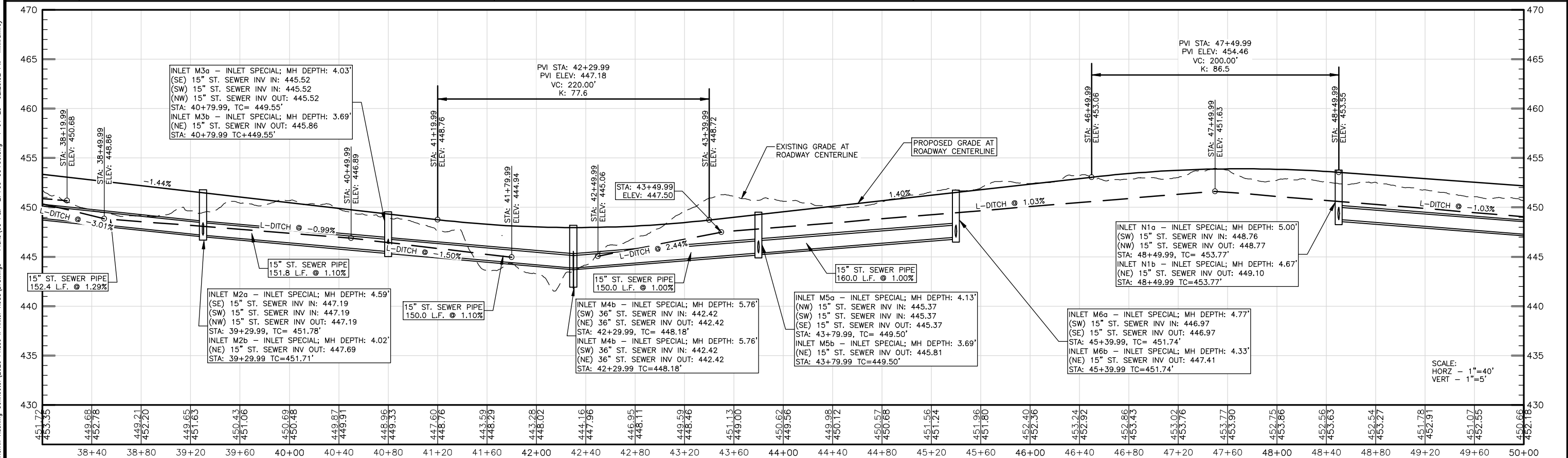
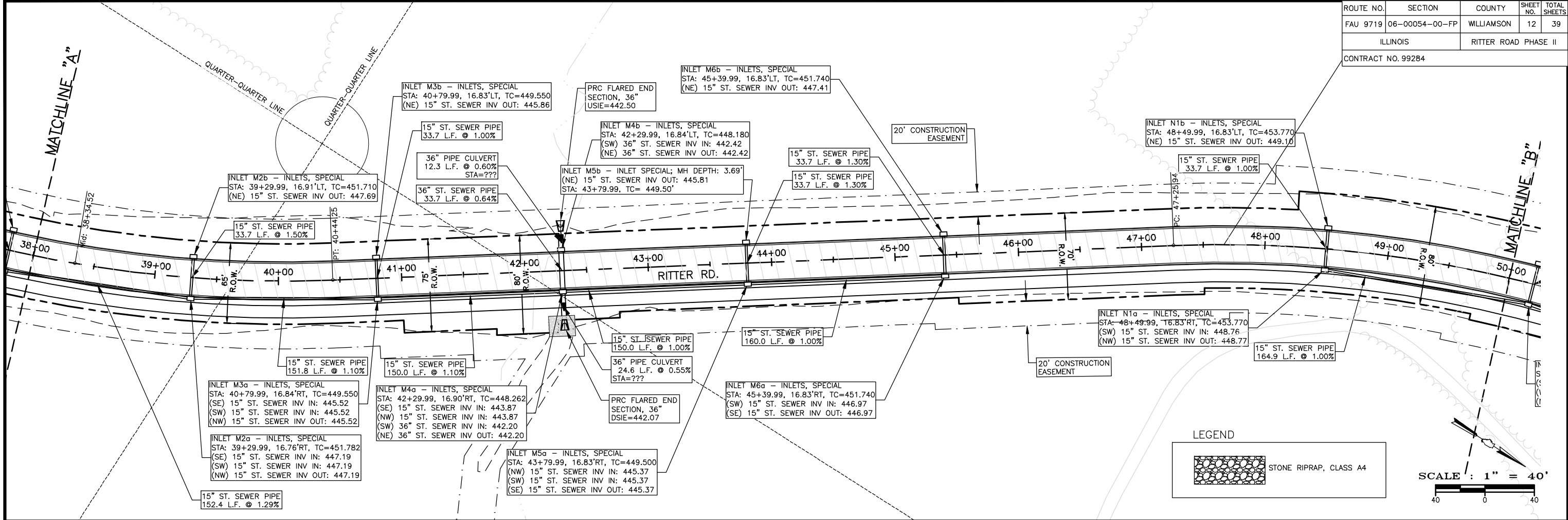


DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159	
EXPIRATION DATE: DECEMBER 31, 2023	
STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515	
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GENERAL LAYOUT RITTER ROAD PHASE II CITY OF HERRIN, ILLINOIS	
Date 04/2025	DR. By CWB CK'D By JVZ
Scale 1"=150'	Job No. 11120 Sheet No. 10 of 39

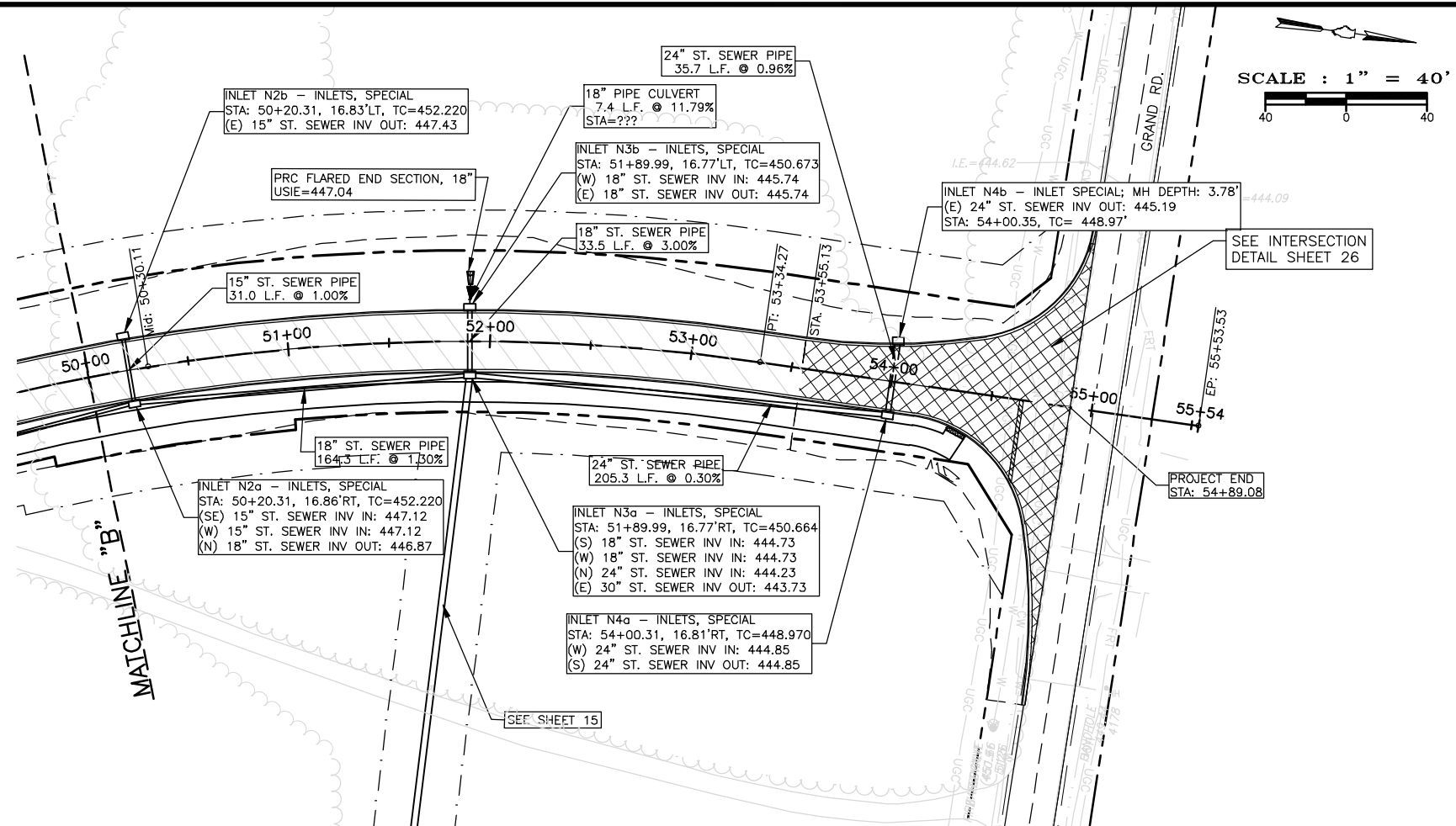
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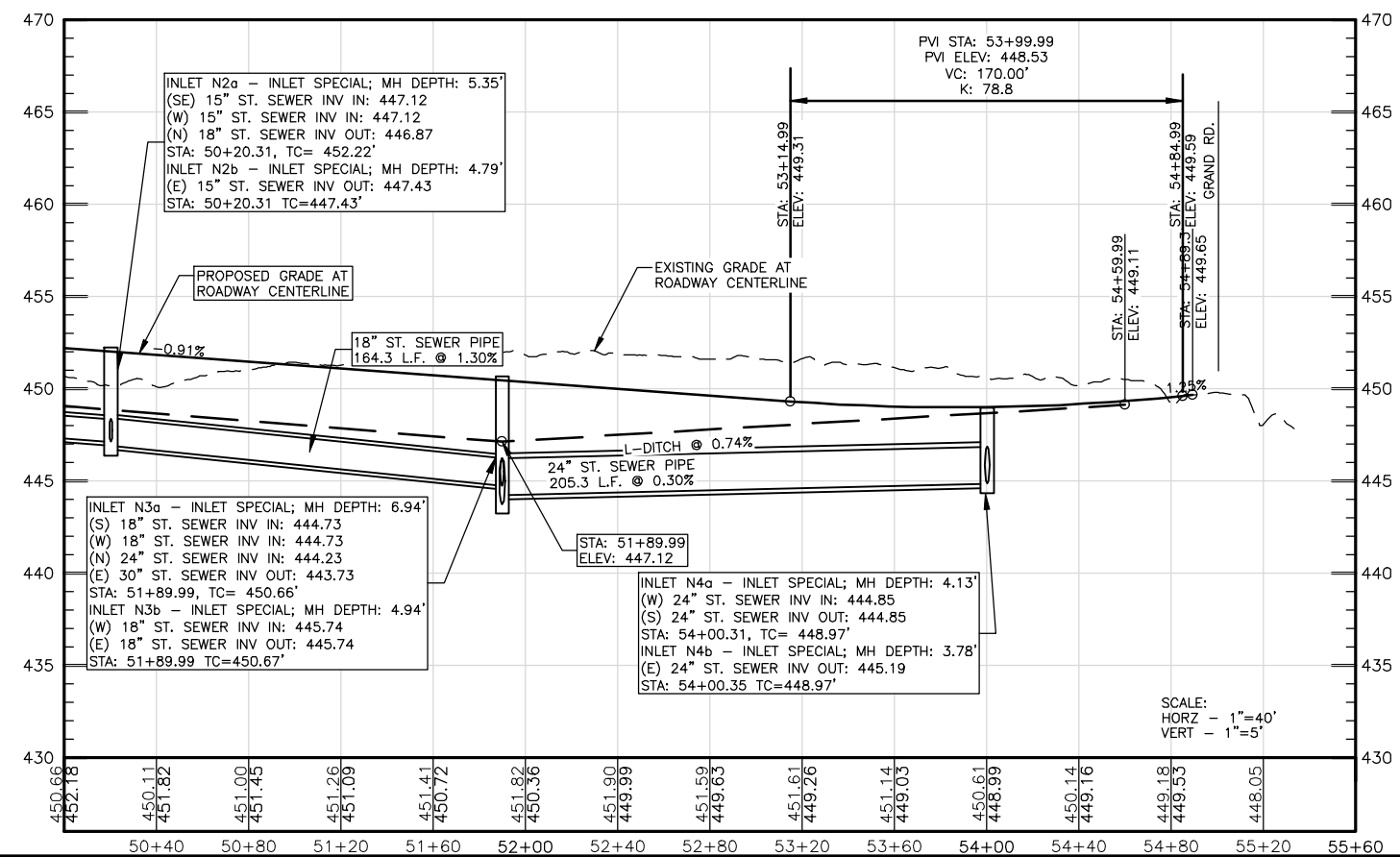
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	12	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				



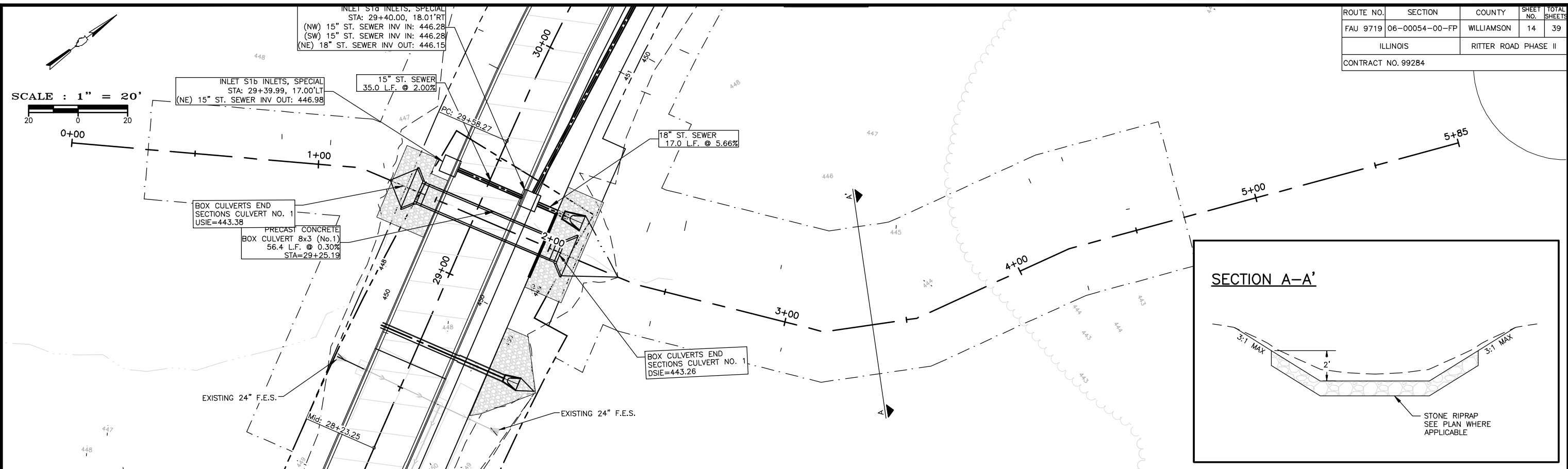
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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	13	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

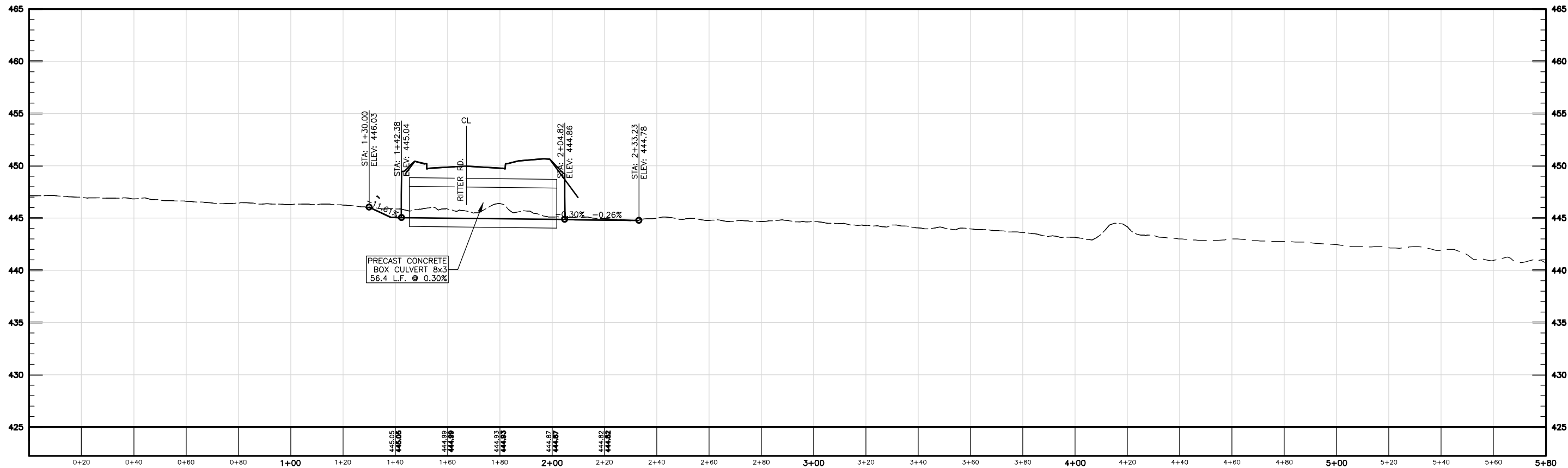
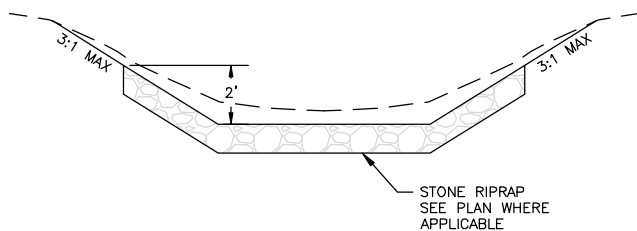


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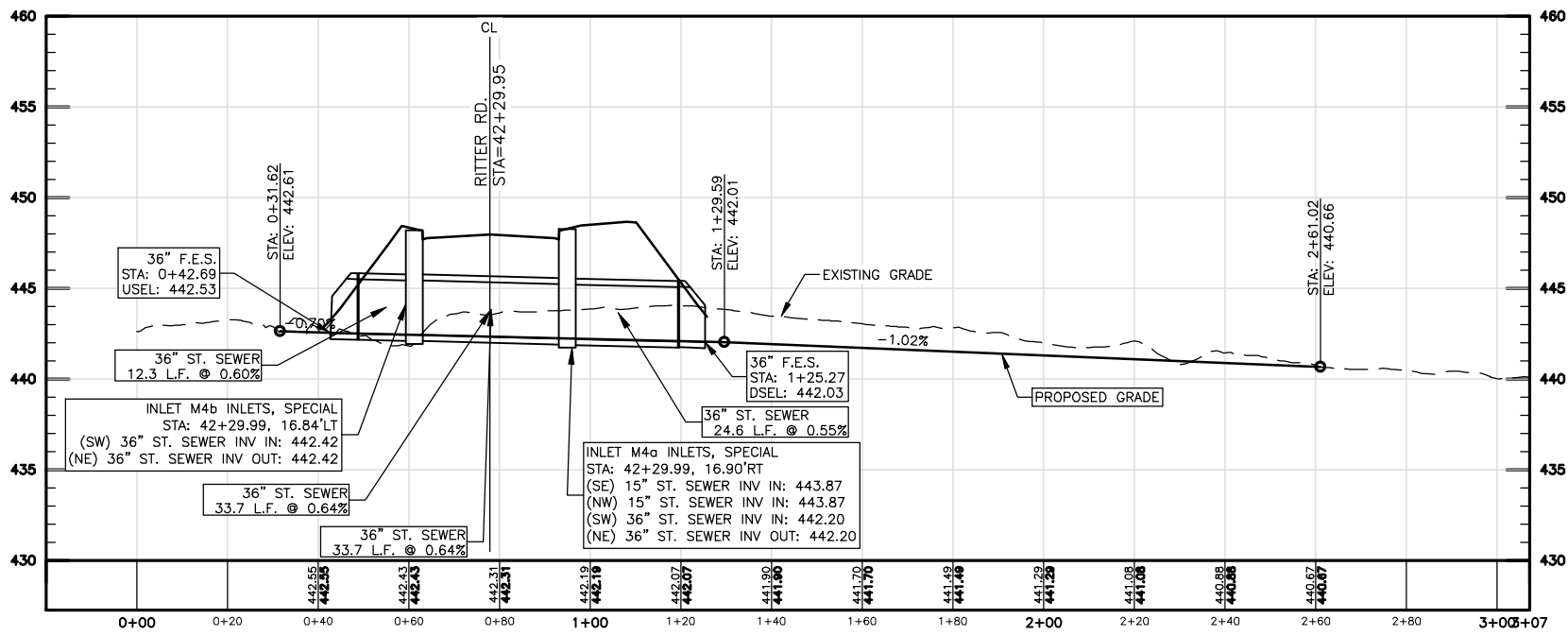
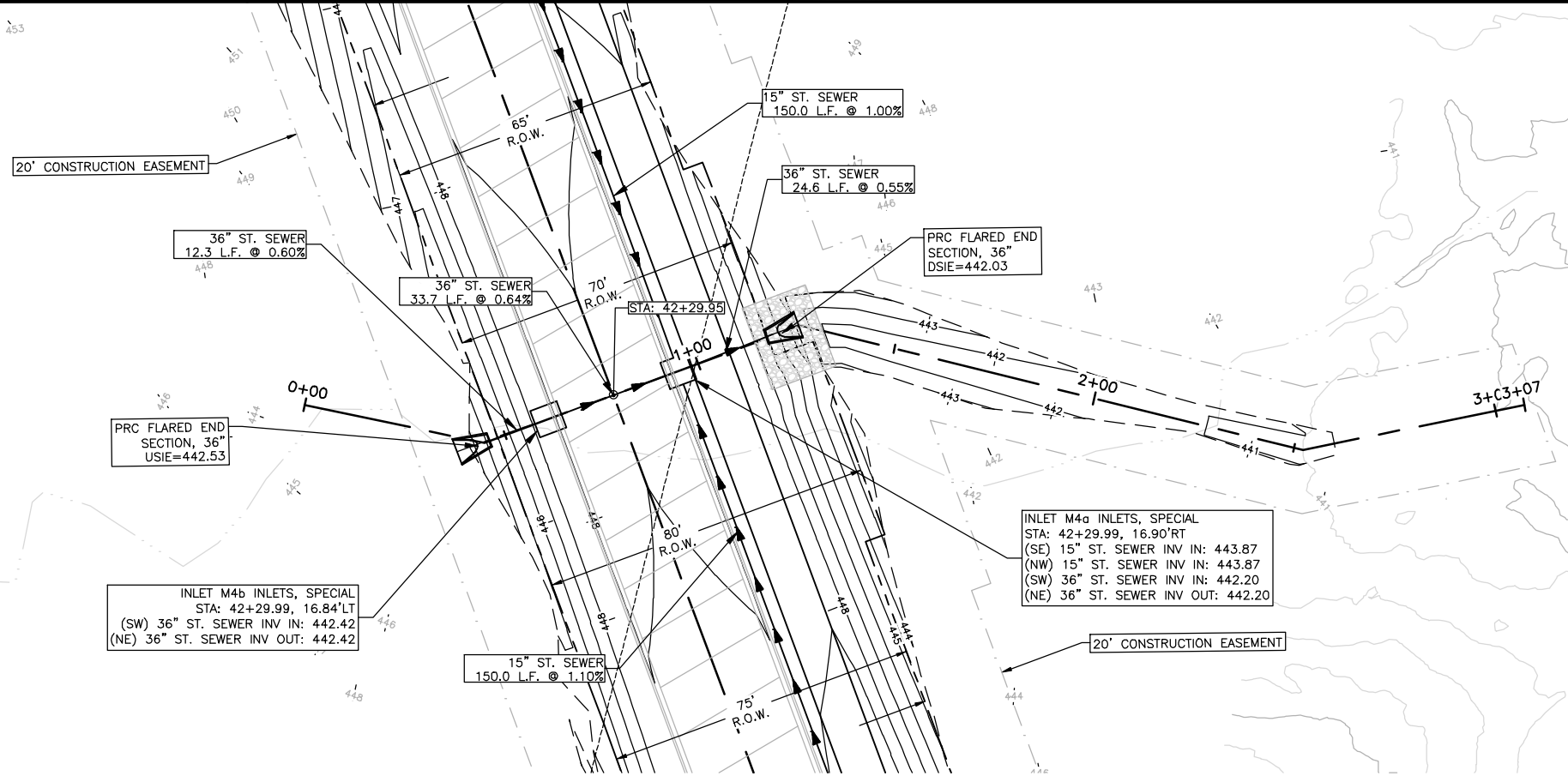
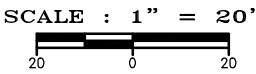


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
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ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

SECTION A-A'

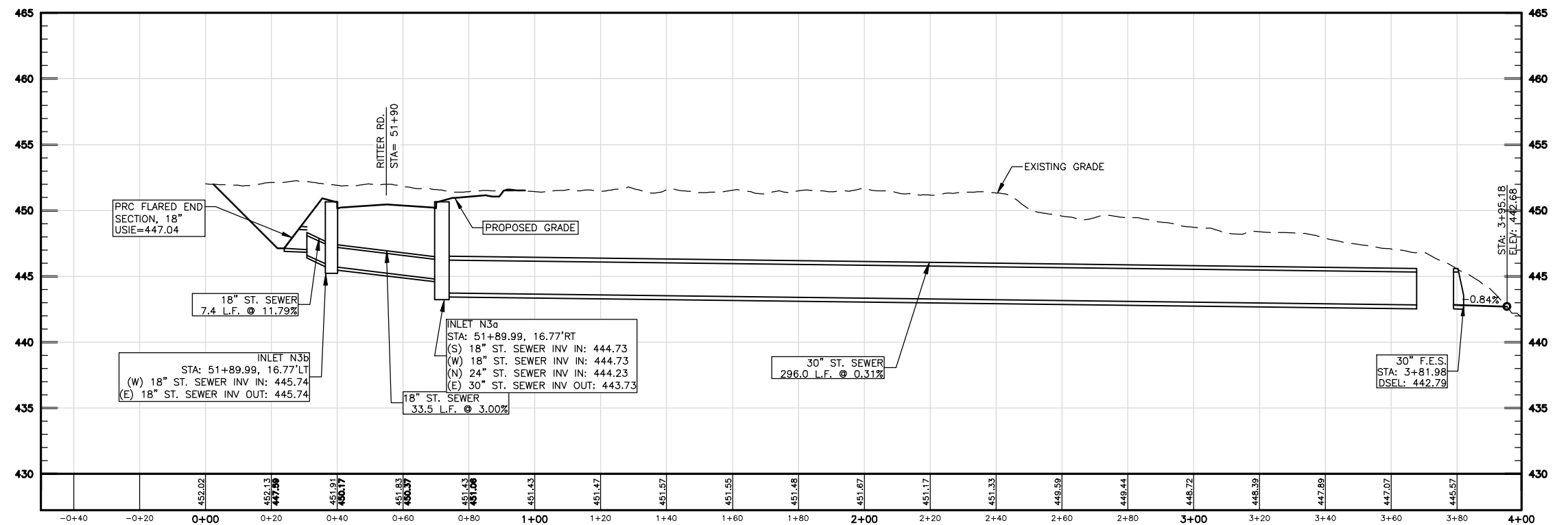
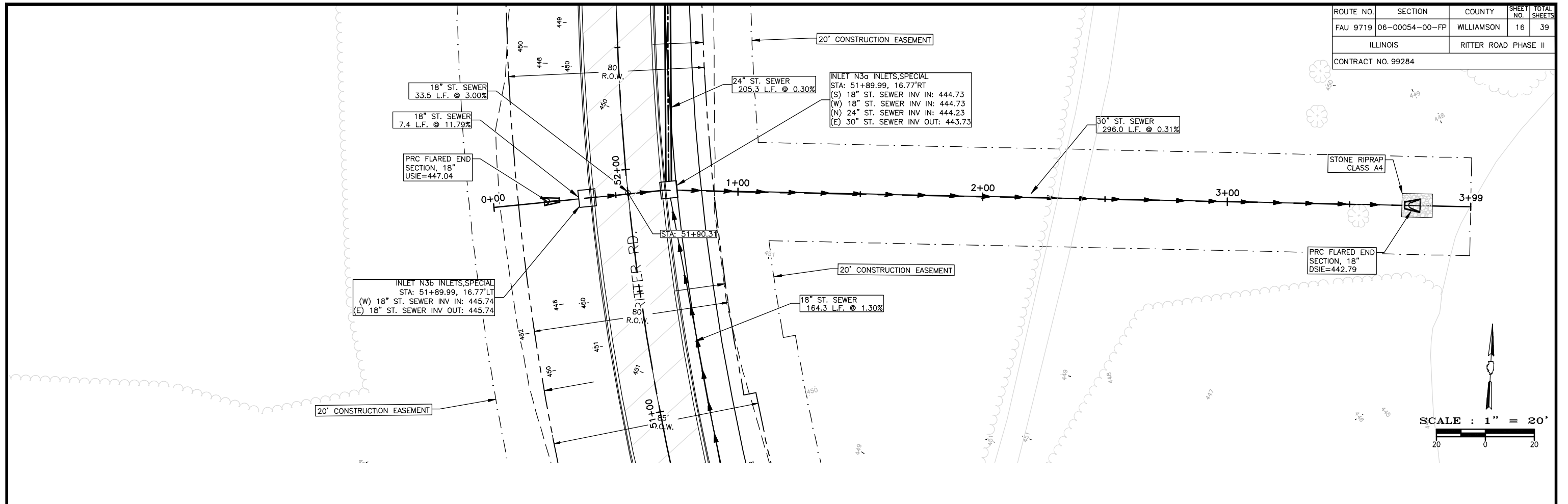


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
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ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

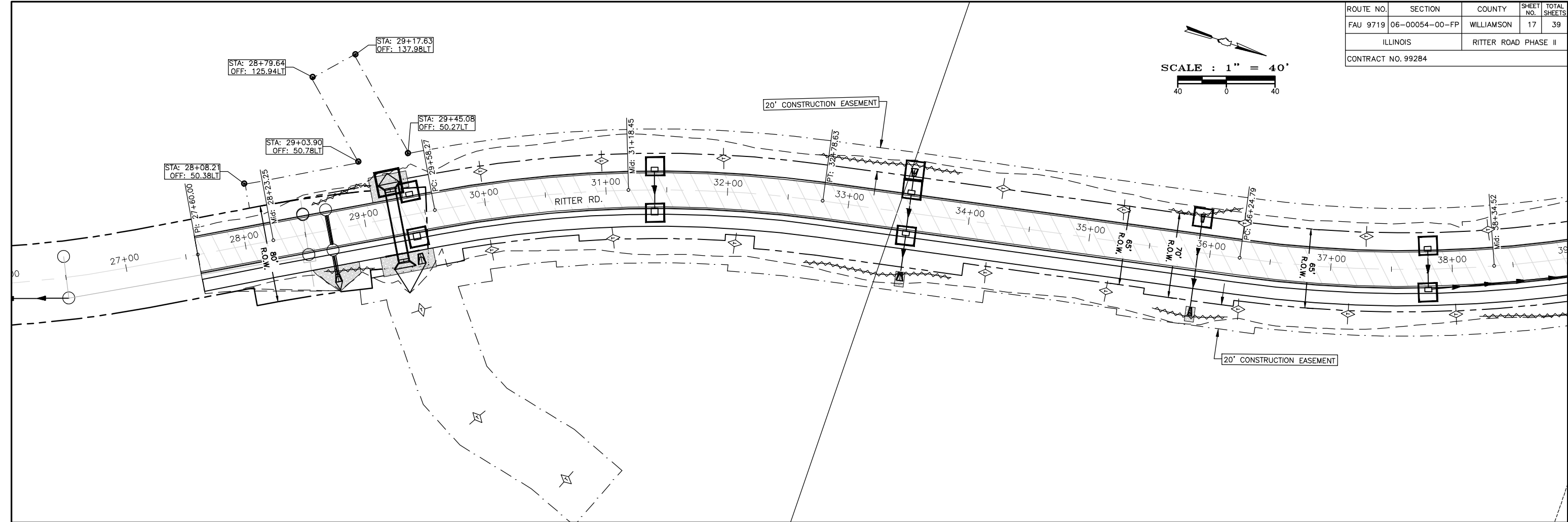


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PA\\1120 Harrin Rushing Connector\\2020 Phase II Ritter Road\\Drawings - Plans\\11 SWPPP.dwg 4-01-25 02:35:53 PM mkburney



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	17	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

EROSION CONTROL GENERAL NOTES

- A. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING ("SITE MAP"), THE STANDARD DETAILS, THE PLAN NARRATIVE, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF ILLINOIS NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE EMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRCTED BY PERMITTING AGENCY OR OWNER.
- E. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- G. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- I. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- J. DUST ON THE SITE SHALL NOT BE CONTOILLED BY THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS.
- K. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS, MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- L. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 21 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANSCAPE PLAN.
- O. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- P. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- Q. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- R. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- S. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SEDIMENT FENCES, ETC.) TO PREVENT EROSION.
- T. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

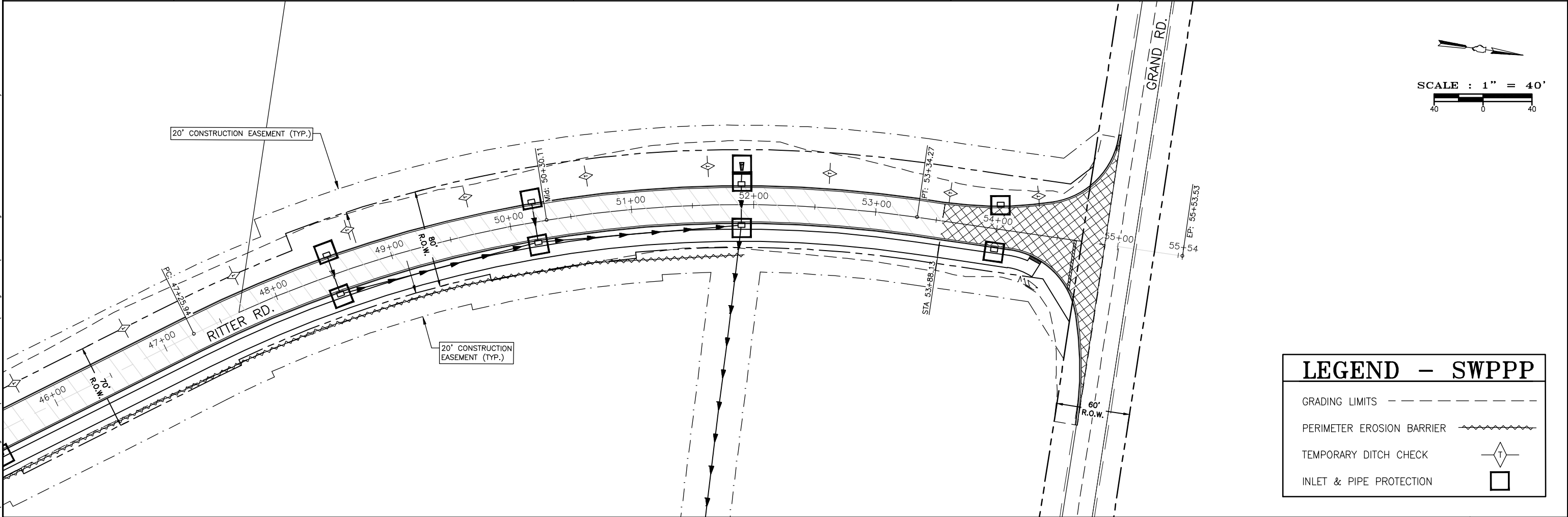
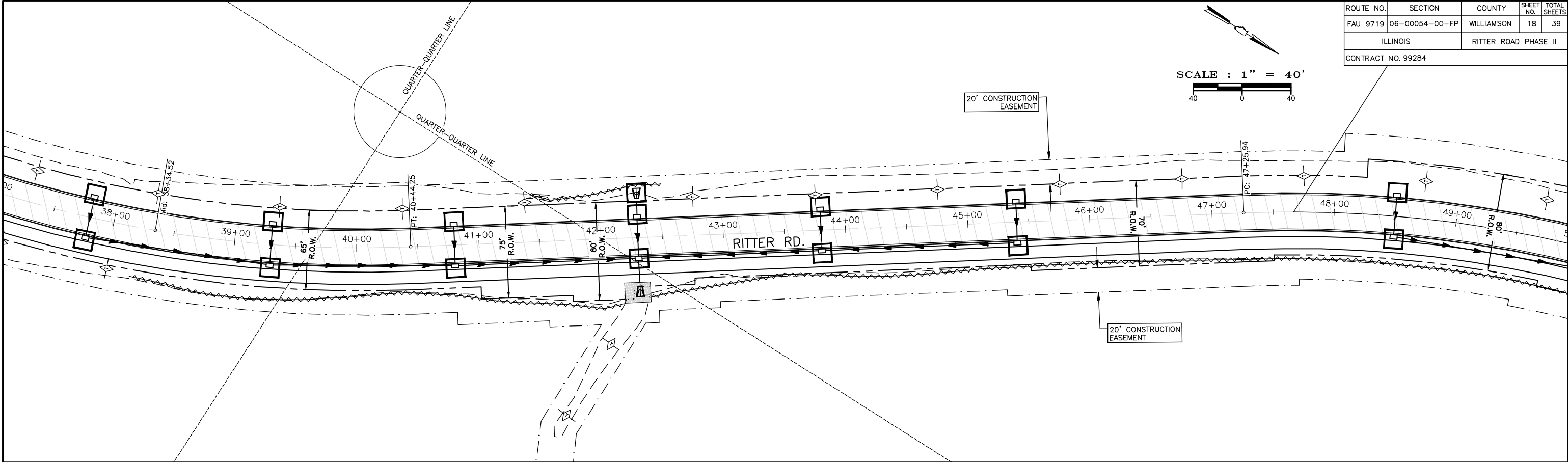
EROSION CONTROL MAINTENANCE NOTES

1. ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
2. INLET PROTECTION DEVICES AND BARRIES SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
4. SEDIMENT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SEDIMENT FENCE.
5. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
6. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
7. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

LEGEND - SWPPP

- GRADING LIMITS - - - - -
- PERIMETER EROSION BARRIER ~~~~~
- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION

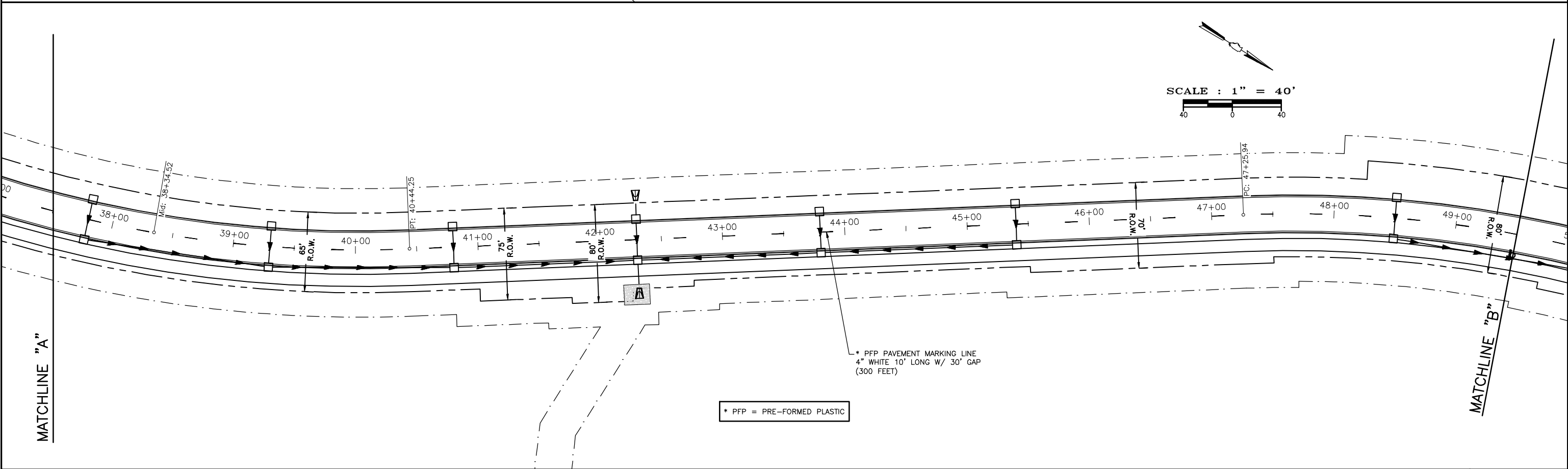
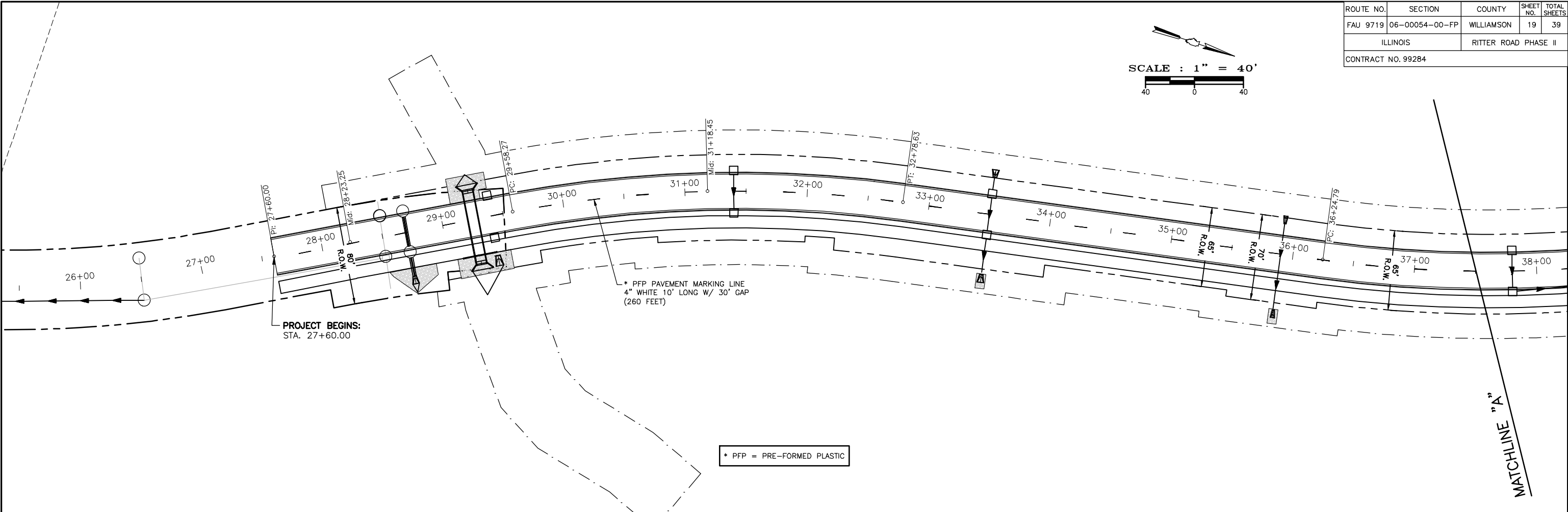
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	18	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				



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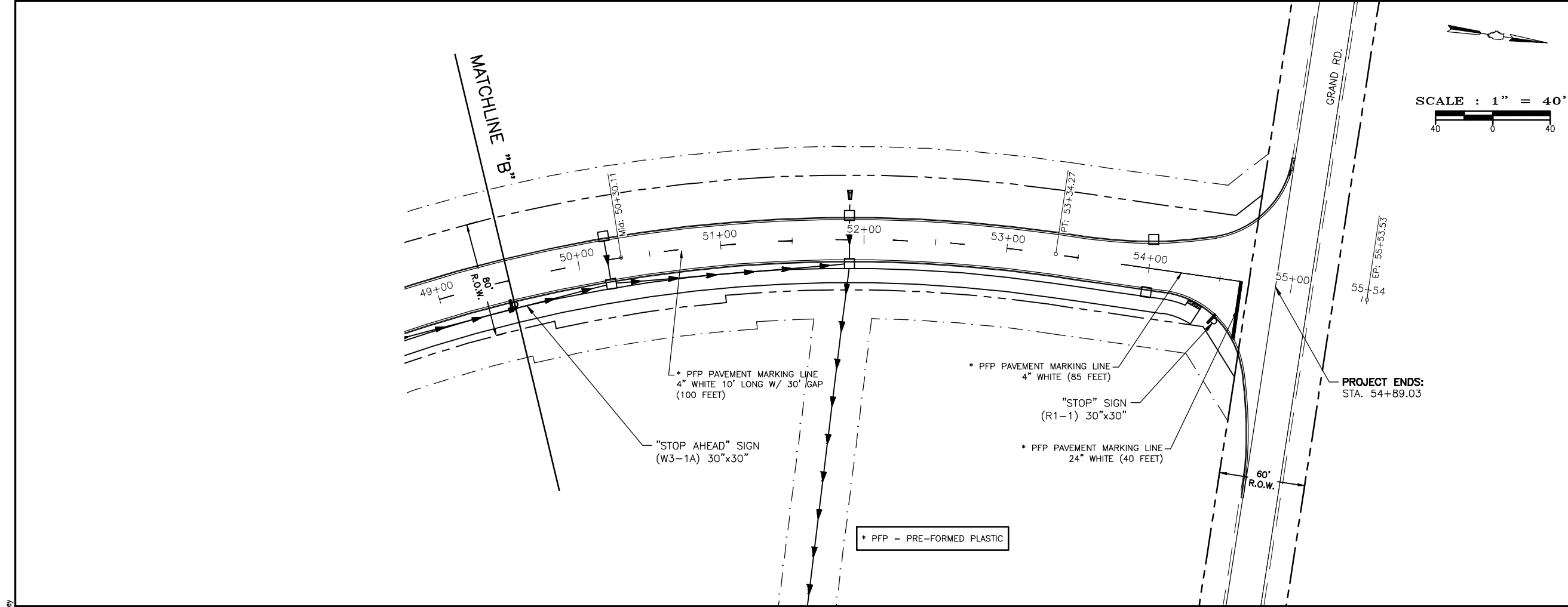
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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
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ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

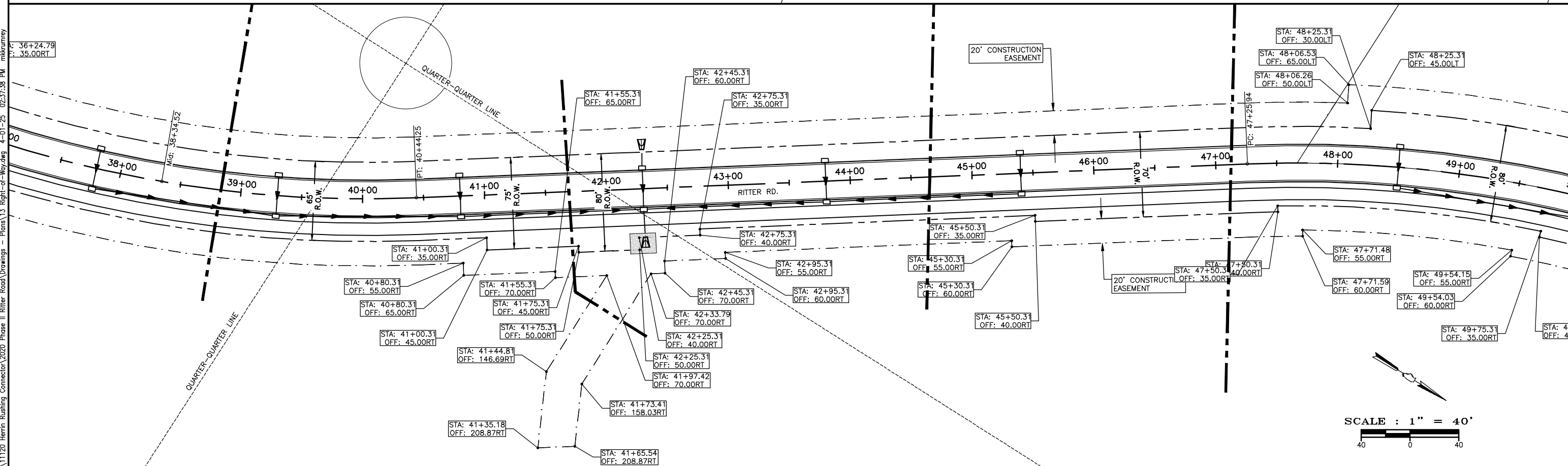
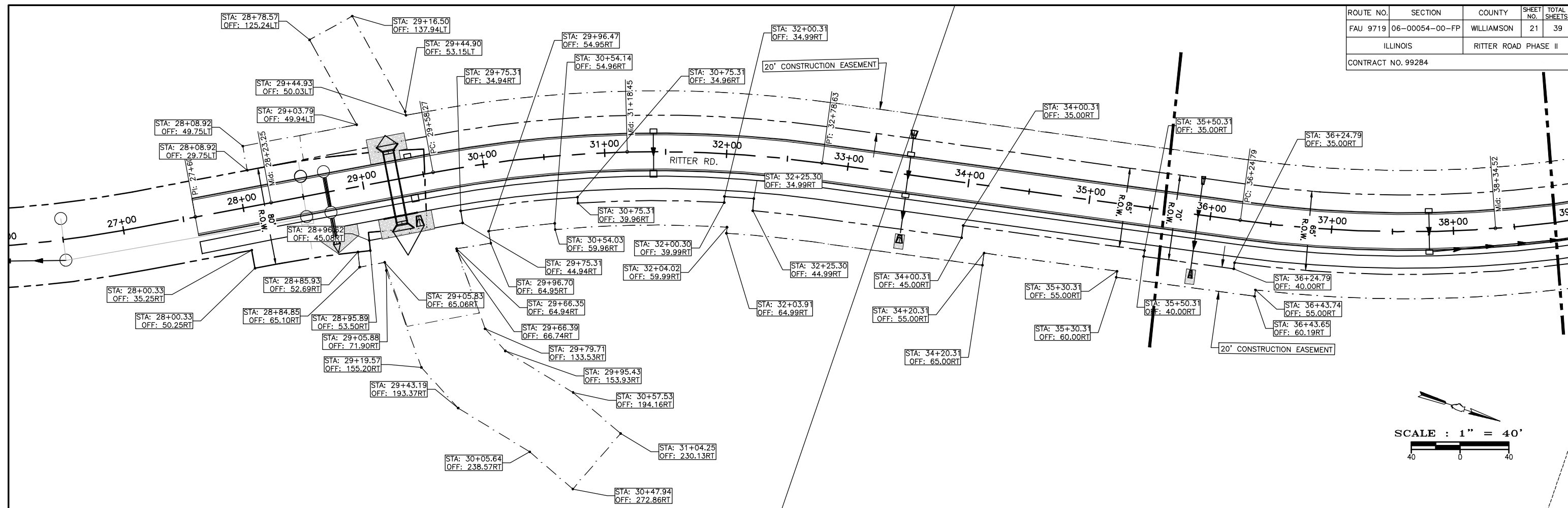


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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
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ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

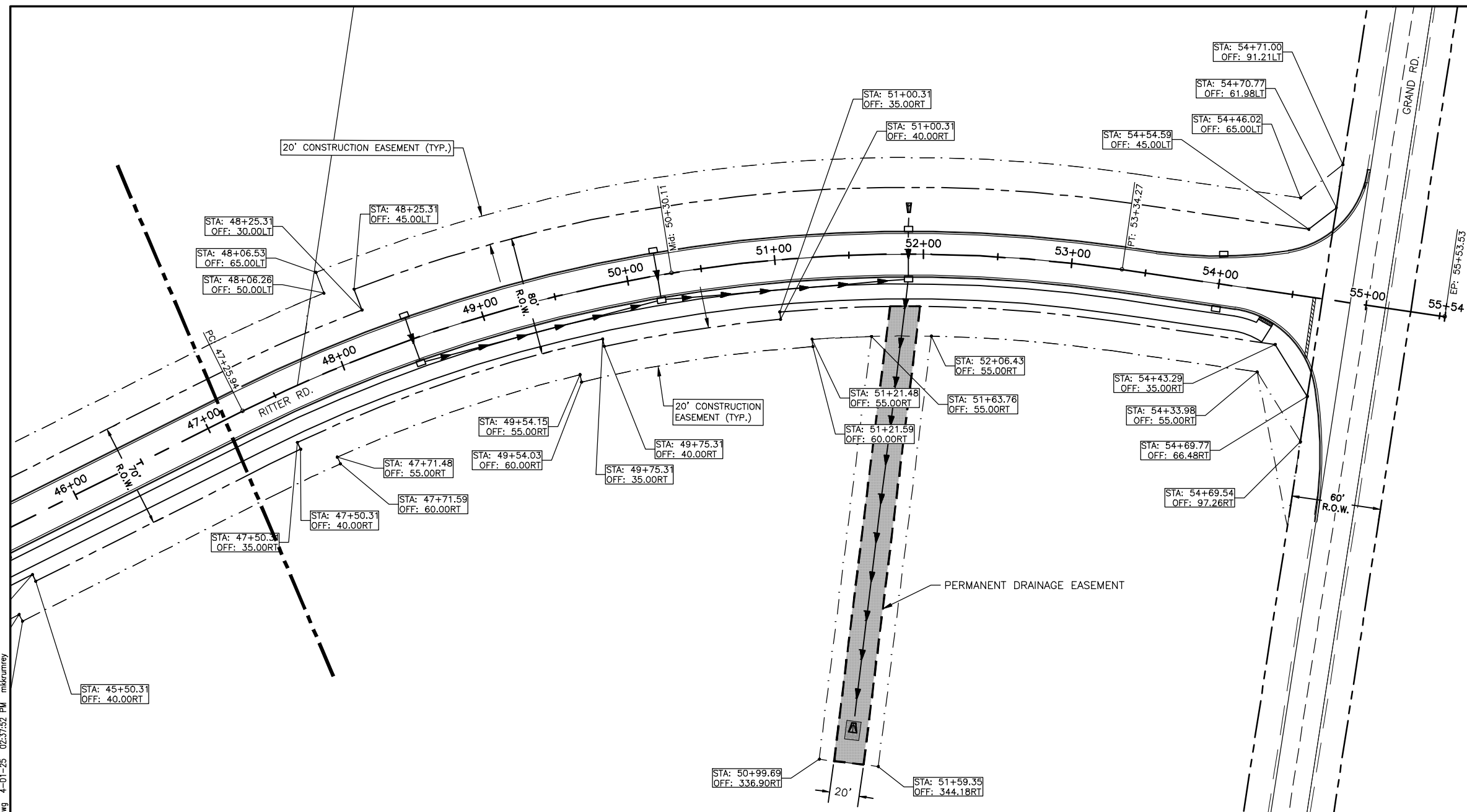
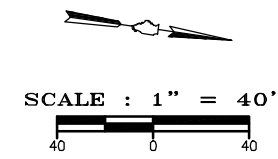


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FAU 9719	06-00054-00-FP	WILLIAMSON	21	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				



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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	22	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				



P:\11120 Herrin Rushing Connector\2020 Phase II Ritter Road\Drawings - Plans\13 Right-of-Way.dwg 4-01-25 02:37:52 PM mkkurmay

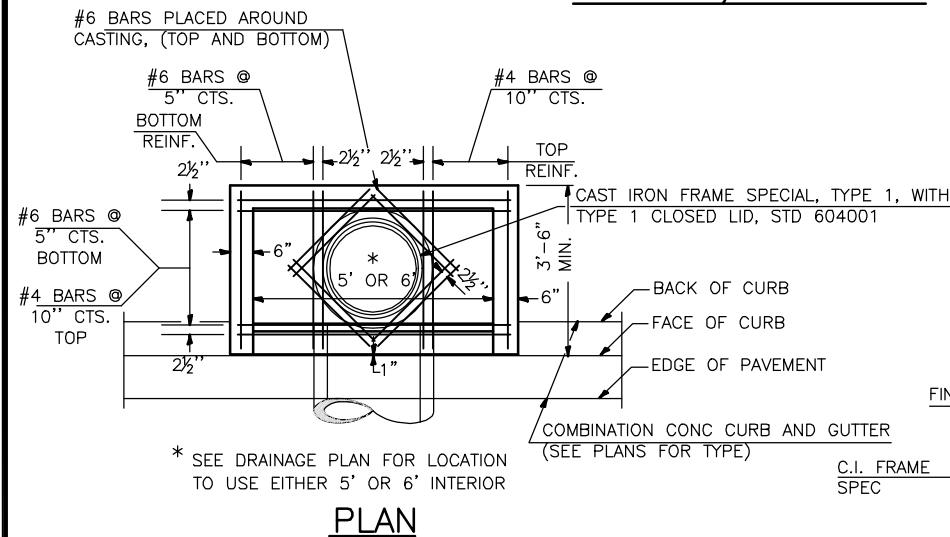
PA\11120 Herrin Rushing Connector\2020 Phase II Ritter Road\Drawings - Plans\08 Details.dwg 4-01-25 02:28:14 PM mklrummy

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	23	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

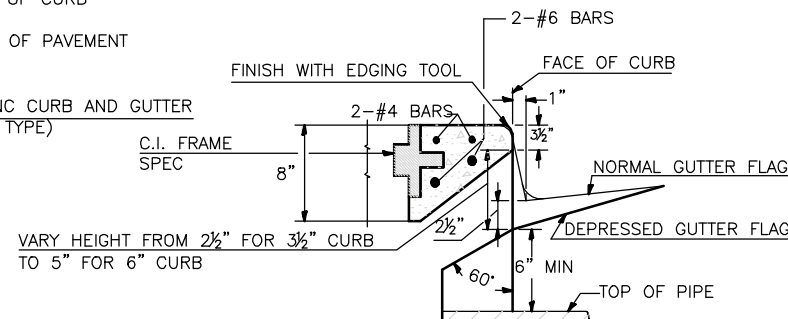
INLETS, SPECIAL

"D" TABLE

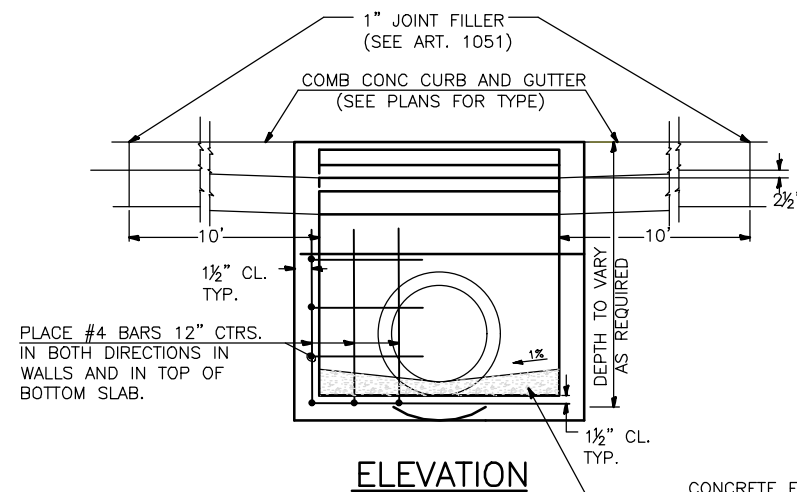
DESIGN	PIPE DIA	"D"
A	18" & LESS	2'-6"
B	21" & 24"	3'-0"
C	27" & 30"	3'-7"
D	33" & 36"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"



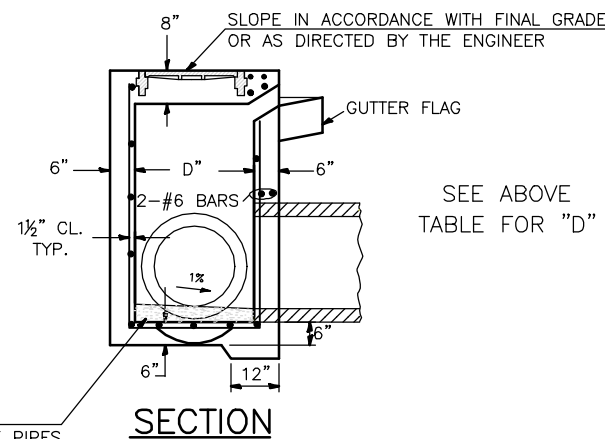
PLAN



SECTION AT WEIR



ELEVATION



SECTION

NOTES:

PROVIDE 1/2" CLEARANCE TYP. ALL REINFORCEMENT UNLESS OTHERWISE SPECIFIED.

GUTTER FLOWLINE AT INLET 2 1/2" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL, WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME, SPECIAL, TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

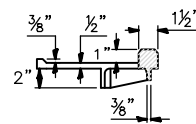
IF THE INLET IS NOT CAST IN PLACE THEN THE INLET SHALL BE PRODUCED ACCORDING SECTIONS 602 AND 1042.

** STEPS WILL BE REQUIRED AT 12" SPACING WHEN INLET IS OVER 4' DEEP. SEE ARTICLE 602.08 AND DETAILS

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14

** CAST IRON STEPS

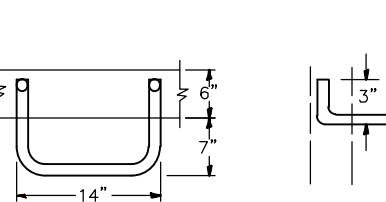
TREAD DIMENSION DETAILS SEE HWY STD 602701



SEC. A-A

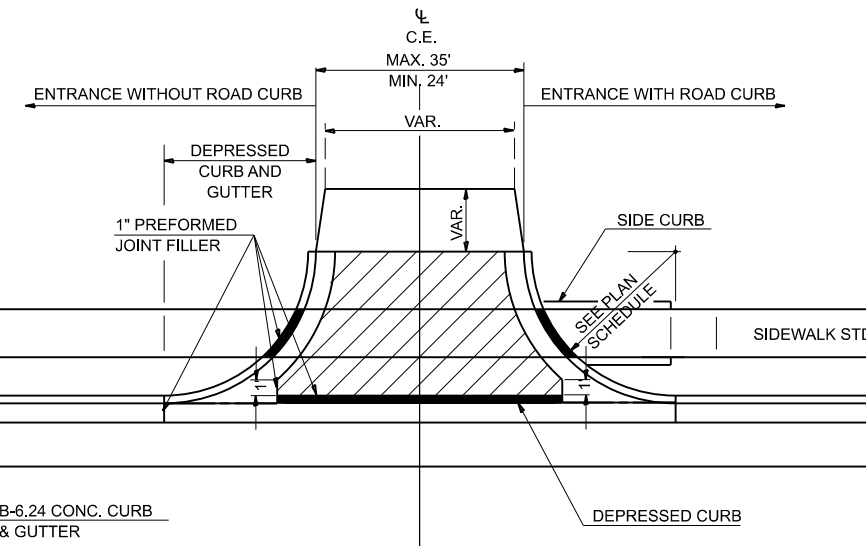
** GALVANIZED IRON STEPS

1" ROUND GALVANIZED IRON STEPS 12" O.C. (OPTIONAL STEPS)

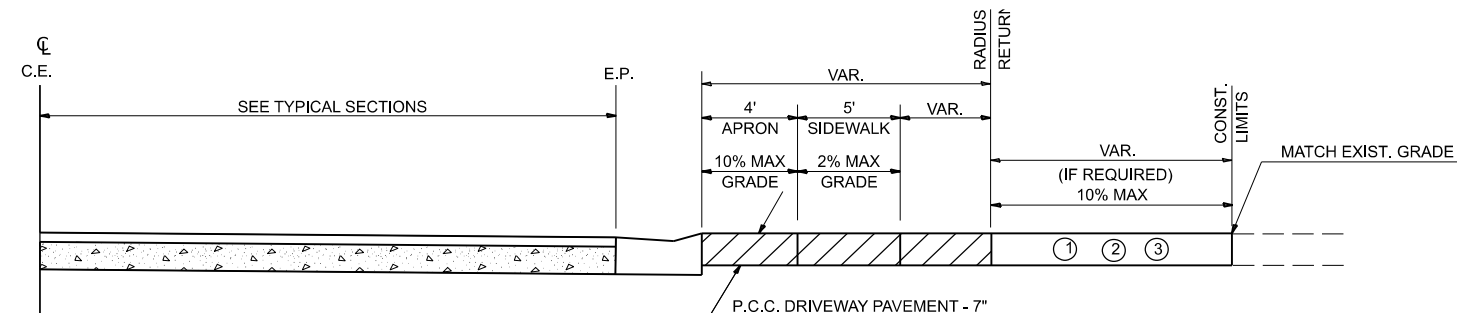


REVISIONS			
REDRAWN	2-15-89	REVISED	3-26-08
REVISED	8-15-94	REVISED	4-10-13
REVISED	1-19-99	REVISED	10-21-21
REVISED	5-6-04	REVISED	

STD. 9-1



DETAILS COMMERCIAL ENTRANCE



PROFILE OF COMMERCIAL ENTRANCES

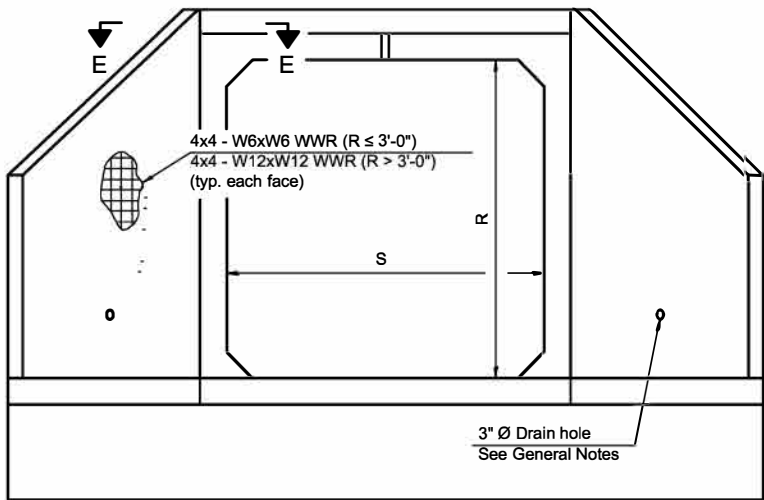
GENERAL NOTES

SEE CROSS SECTIONS FOR PROPOSED PROFILE OF SIDEROAD AND ENTRANCES.

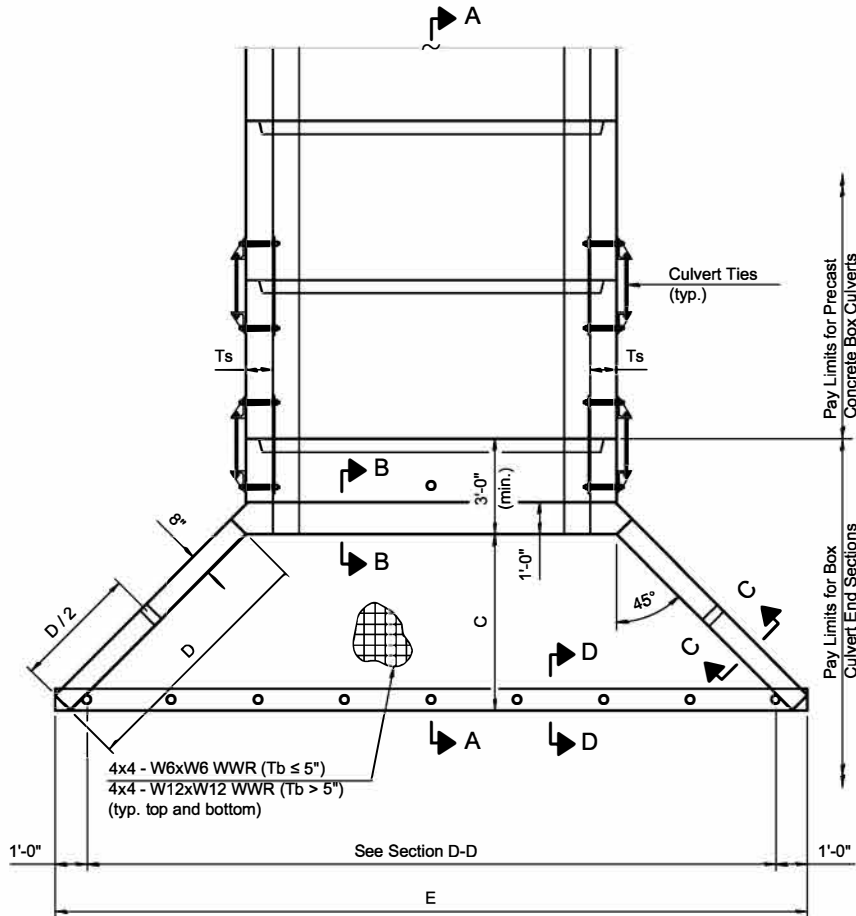
THE SIDEWALK AREA OF THE DRIVEWAY PAVEMENT SHALL BE CONSTRUCTED AS A SEPARATE POUR.

\\P11120\Herrin_Rushing_Connectors\2020_Phase II Ritter Road\Drawings - Plans\09_Details.dwg 4-01-25 02:28:27 PM mklrummy

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	24	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				



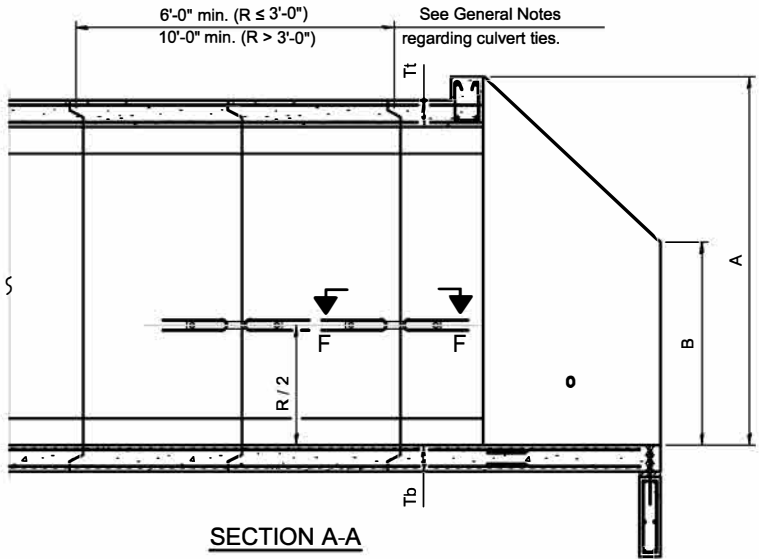
END VIEW



PLAN

SCB-AES

2-17-2017



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.

Revised By

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 5/8"	4'-1"	10'-4 5/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 7/8"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	12'-4 5/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 7/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 1/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 1/8"	5'-7"	13'-8 5/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 1/2"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 1/2"	3'-2 1/2"	4'-11 1/8"	7'-0"	15'-8 5/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 5/8"	6'-8"	15'-2 1/2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 1/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 1/8"	5'-7"	14'-10 5/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 1/8"	7'-0"	16'-10 5/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	6'-9"	16'-5 7/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 1/8"	8'-5"	18'-10 5/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	8'-2"	18'-5 7/8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 1/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 5/8"	4'-1"	13'-10 5/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 1/8"	5'-7"	16'-0 5/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	15'-10 5/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 1/8"	7'-0"	18'-0 5/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/4"	6'-11"	17'-10 3/4"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 1/8"	8'-5"	20'-0 5/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 1/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 1/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 1/8"	7'-0"	19'-2 5/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 1/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 1/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 1/8"	5'-7"	18'-2 5/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 1/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 1/8"	8'-5"	22'-2 5/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 5/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 1/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 5/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 7/8"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 5/8"	9'-11"	25'-5 5/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 5/8"	4'-7"	20'-3 5/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 7/8"	6'-0"	22'-3 5/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 1/4"	7'-4"	24'-1 3/4"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	28'-1 1/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 5/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 5/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 5/8"	7'-6"	25'-6 5/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 5/8"	8'-11"	27'-6 5/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 5/8"	10'-4"	29'-6 5/8"	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)

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAIL STRUCTURE NO.

Scale

P:\11120_Herrin_Rushing_Conector\2020 Phase II Ritter Road\Drawings - Plans\09_Details.dwg 4-01-25 02:28:54 PM mklrunney

Benchmark:
Existing Structure:

INDEX OF SHEETS

1. General Plan and Elevation
- 2.-3. Precast Concrete Box Culvert
Apron End Section Details

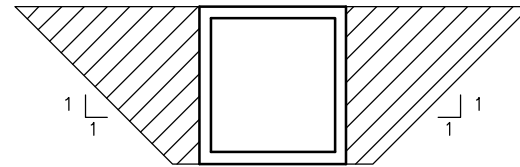
GENERAL NOTES

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.

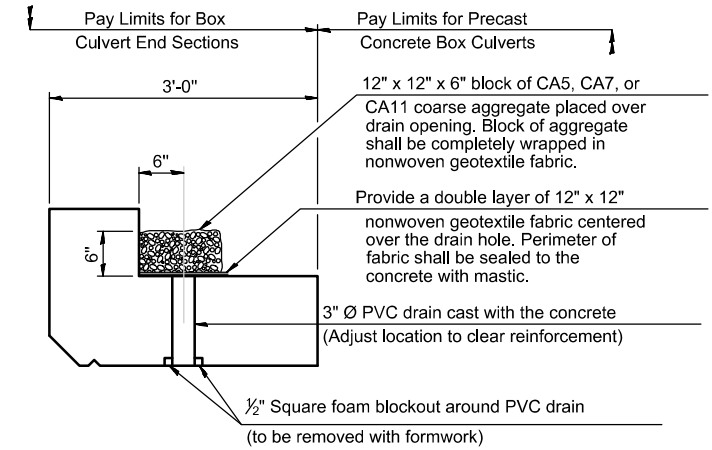
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

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.



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

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
Removal of Existing Structures	Each	-
Name Plates	Each	-
Box Culvert End Sections, Culvert No. 1	Each	1
Precast Concrete Box Culverts, 8'x3'	Foot	56
Porous Granular Embankment	Cu. Yd.	46

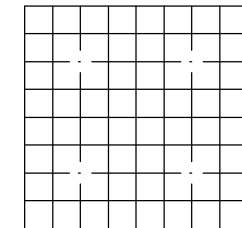
GENERAL PLAN AND ELEVATION

RITTER ROAD

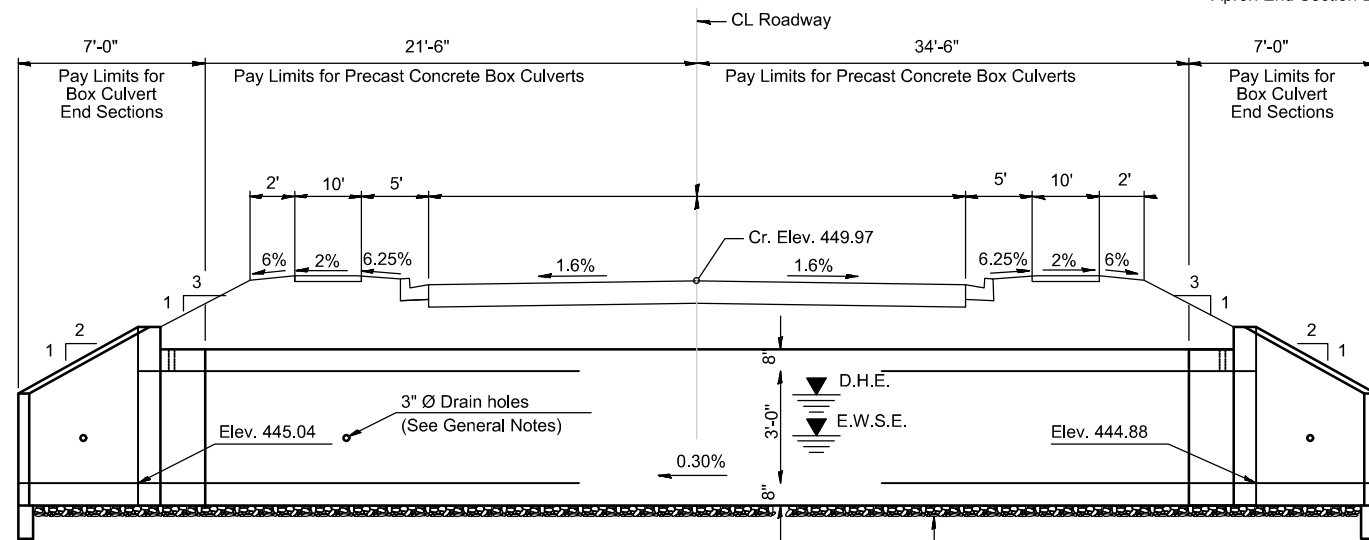
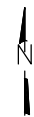
F.A.U. RTE. 9719 SEC. 06-00054-00-FP

WILLIAMSON COUNTY

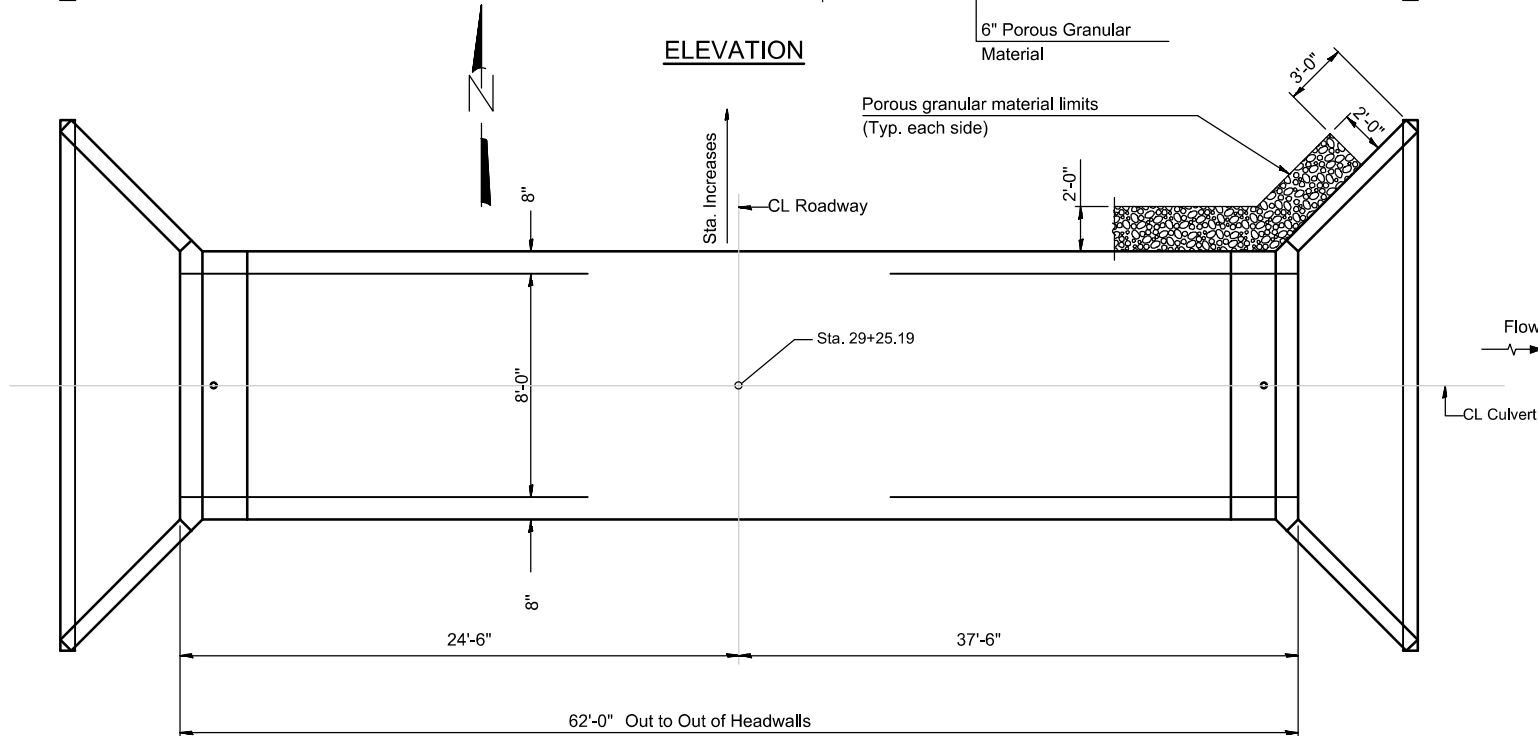
STATION 29-25.19



LOCATION SKETCH



ELEVATION

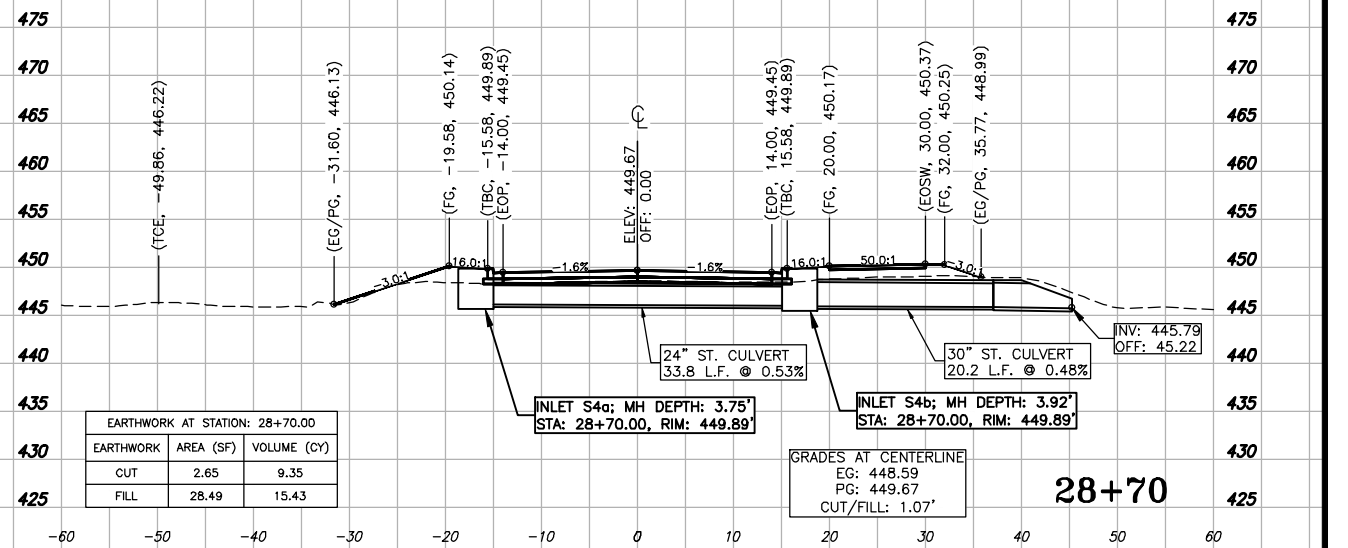
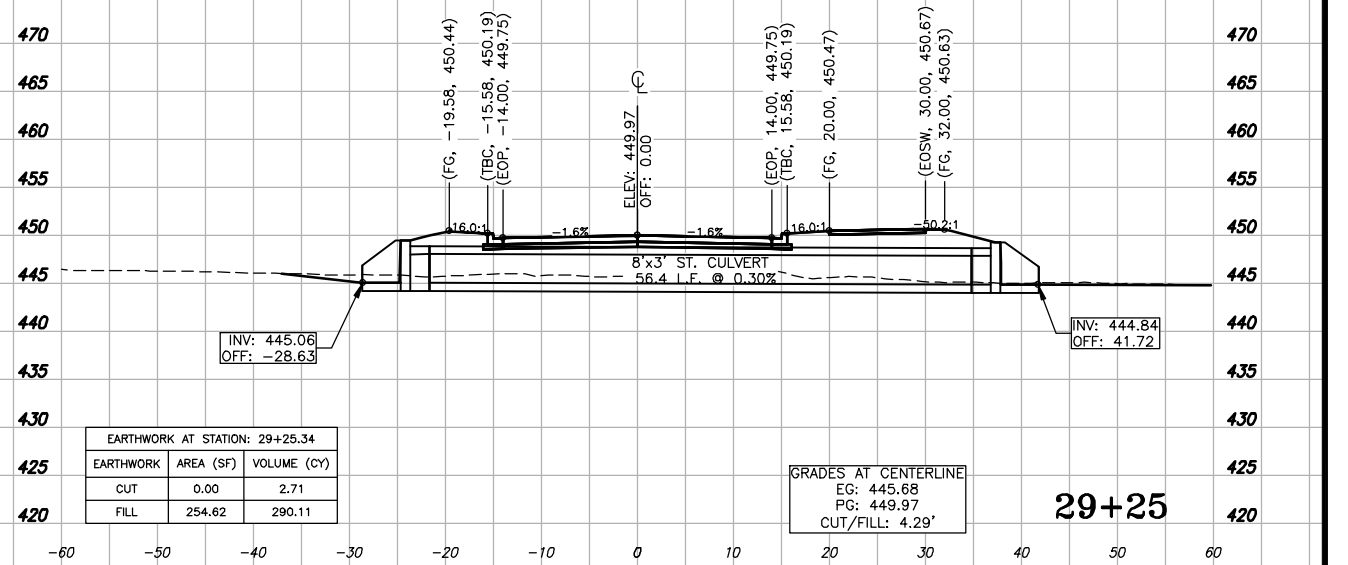
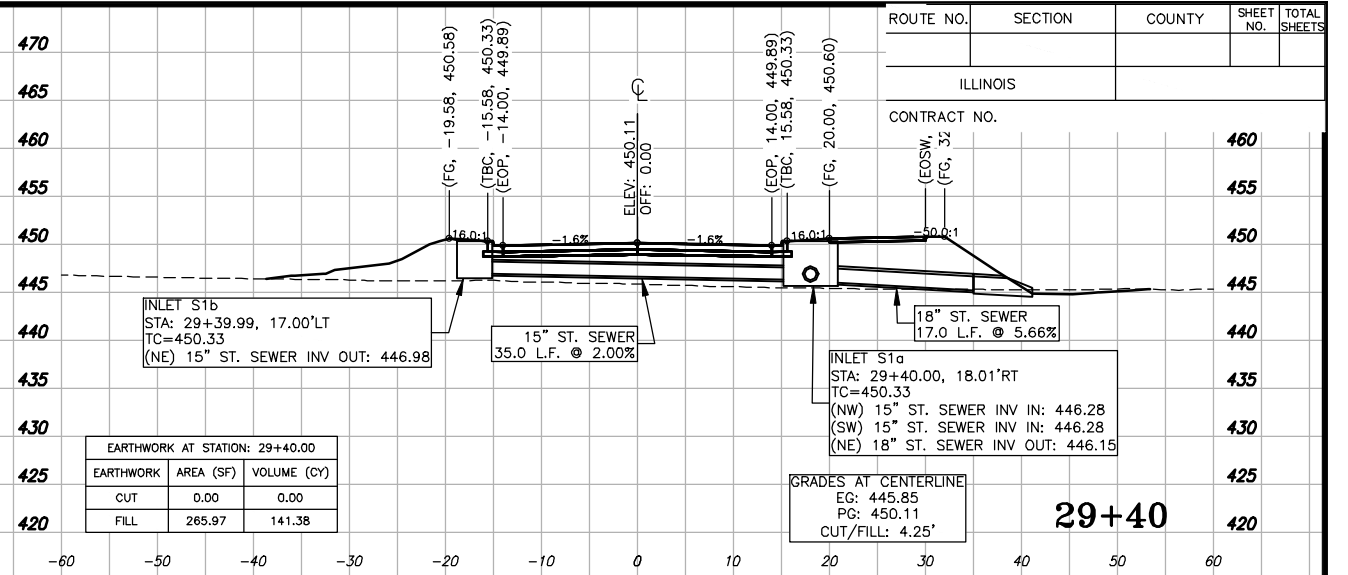
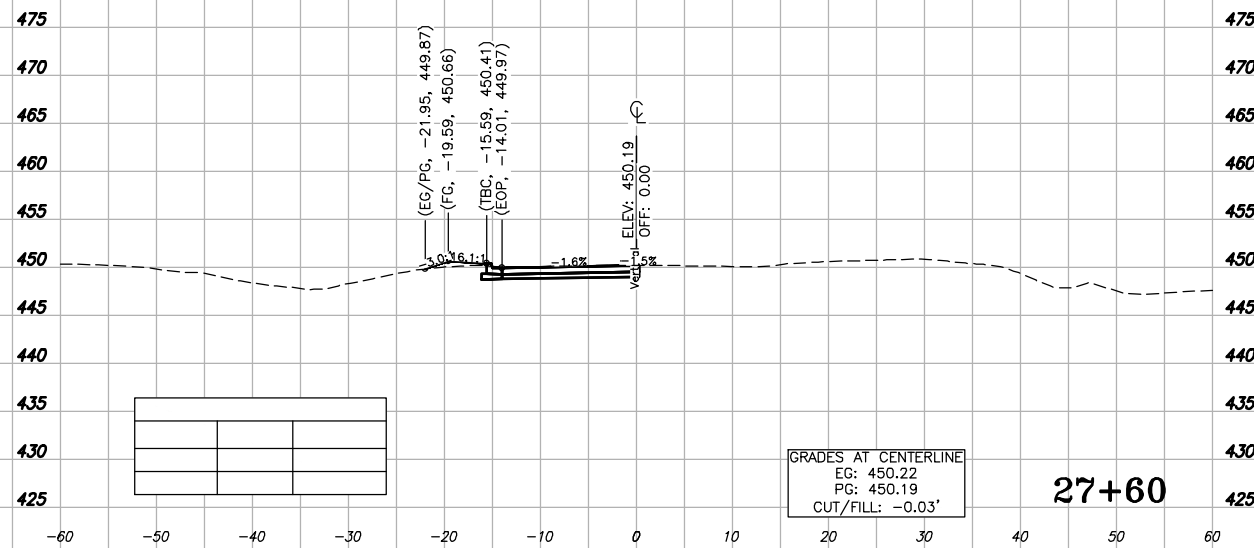
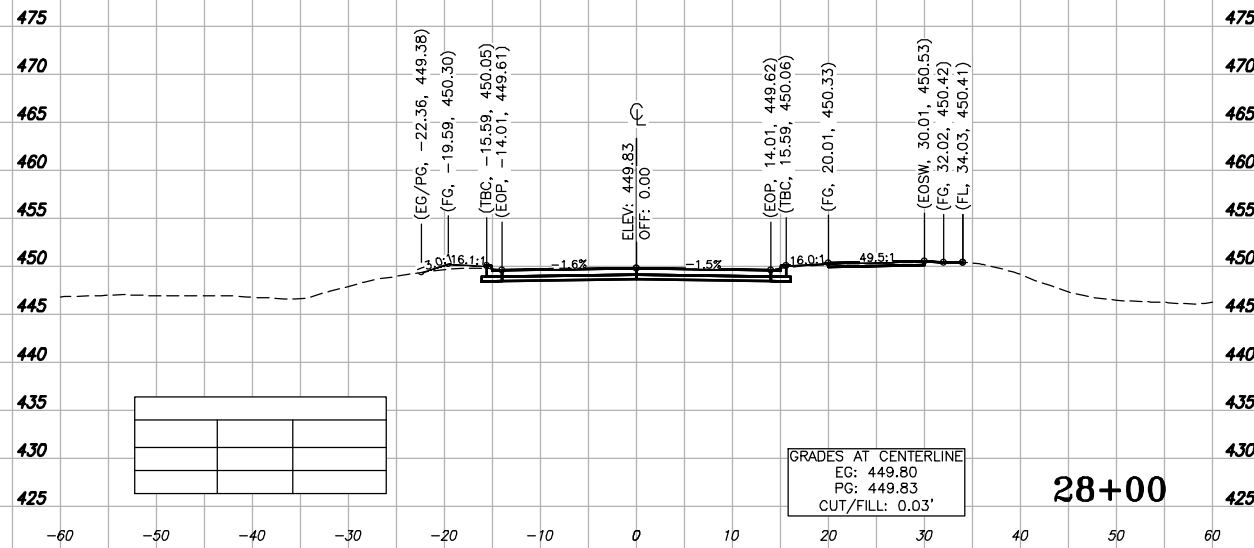
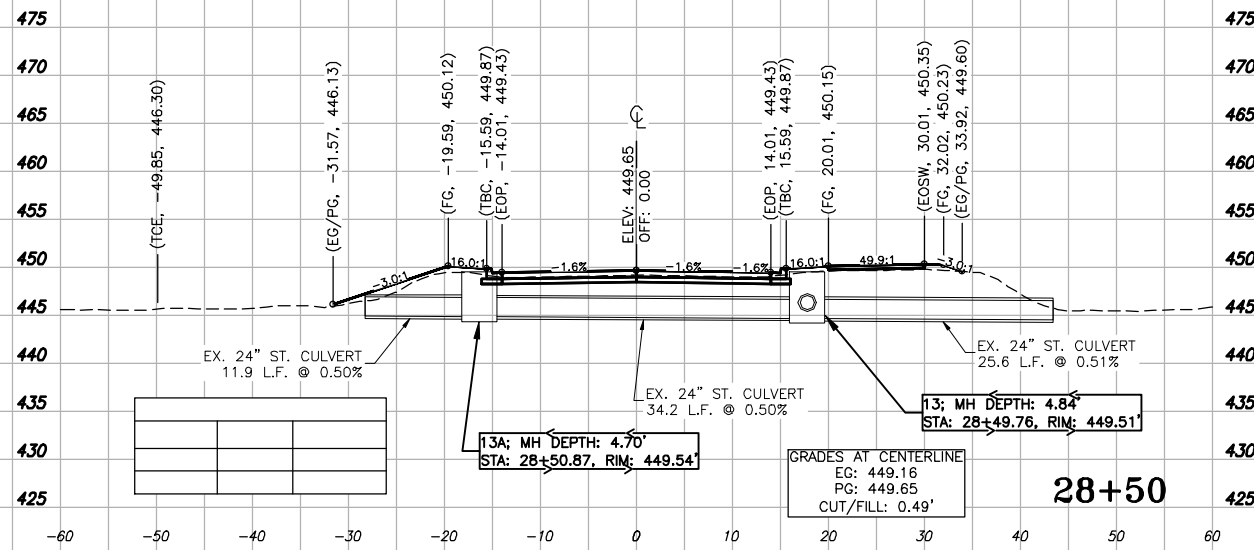


PLAN

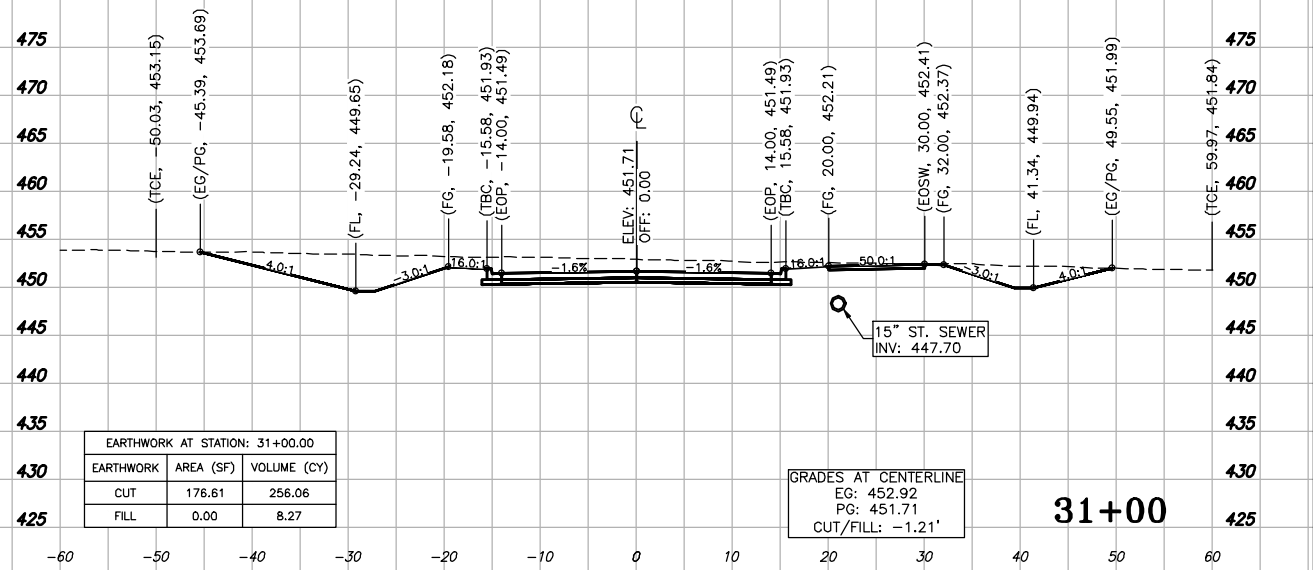
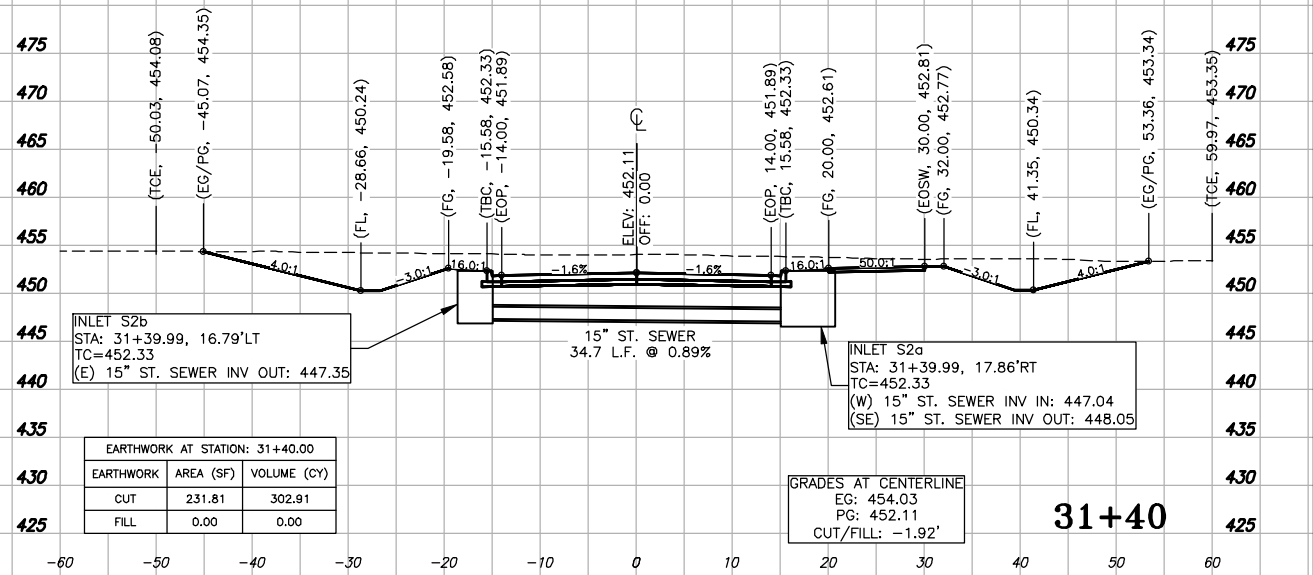
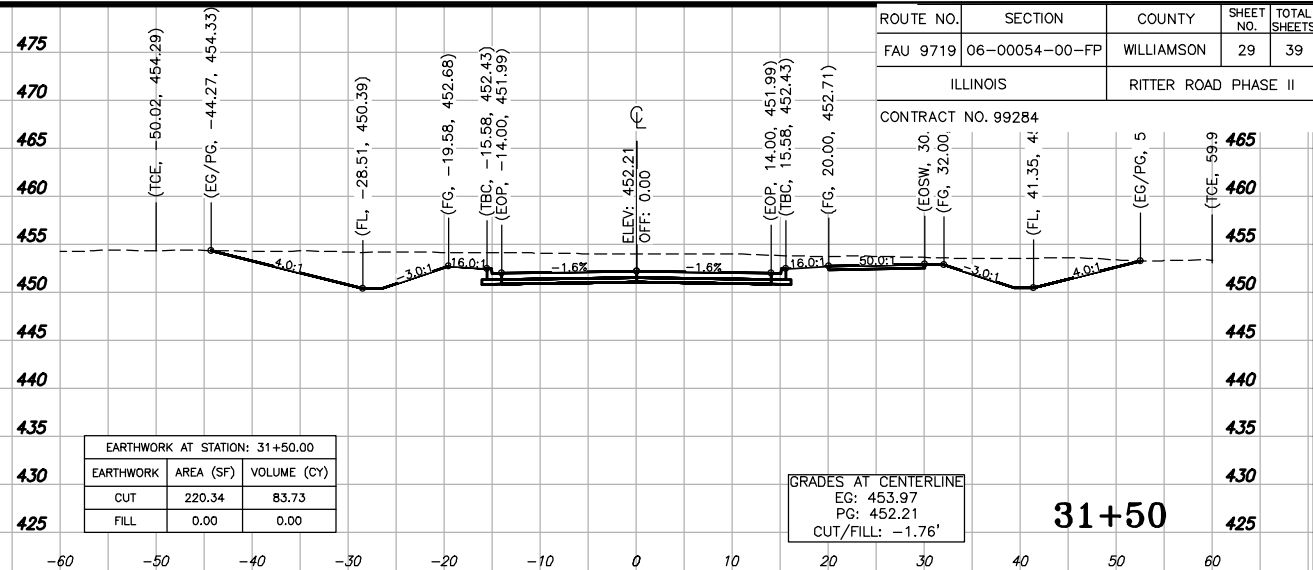
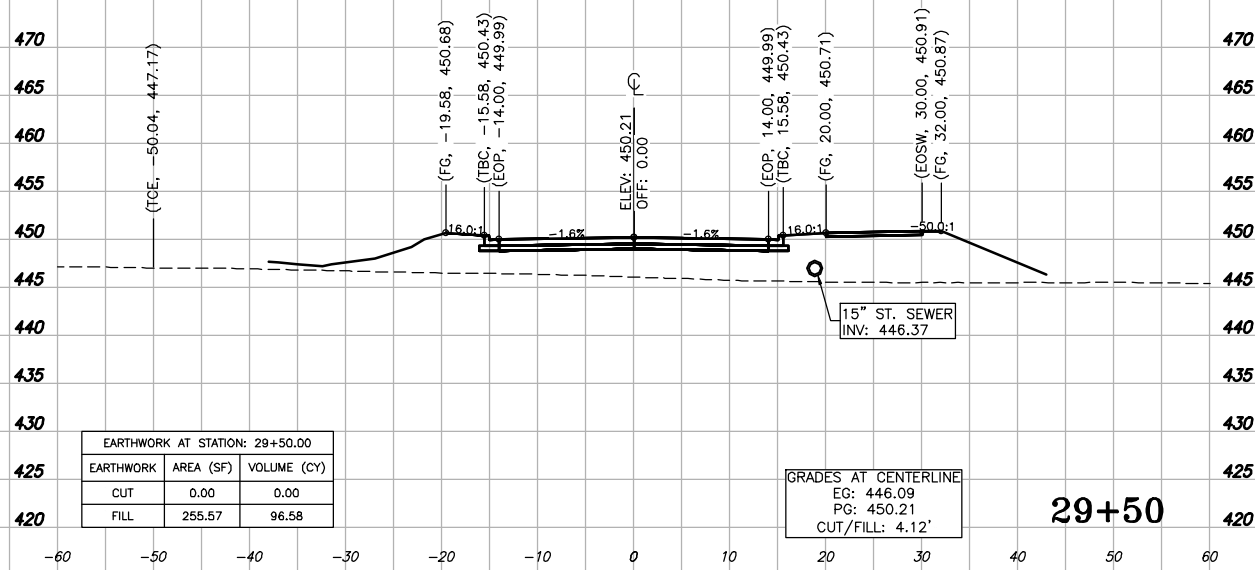
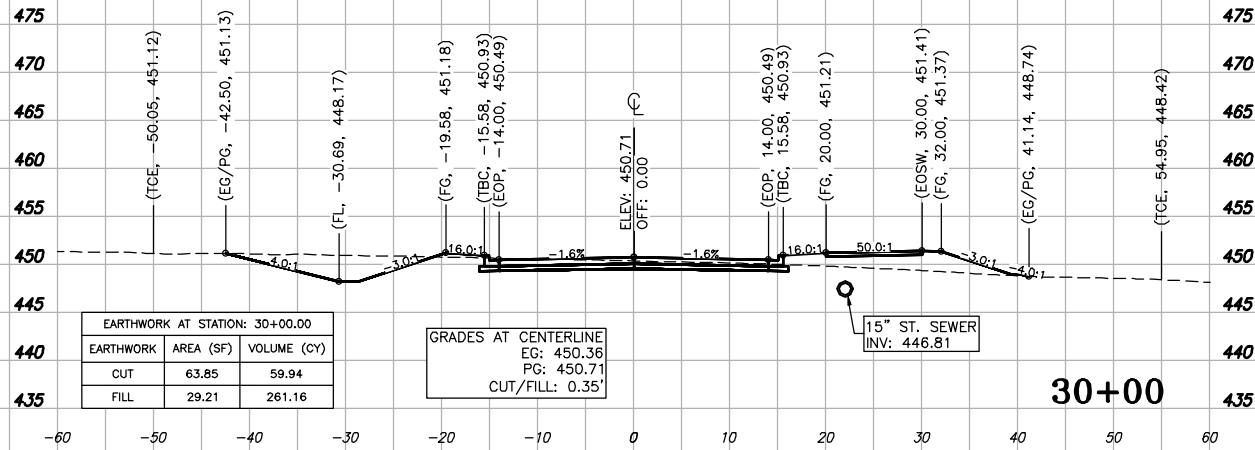
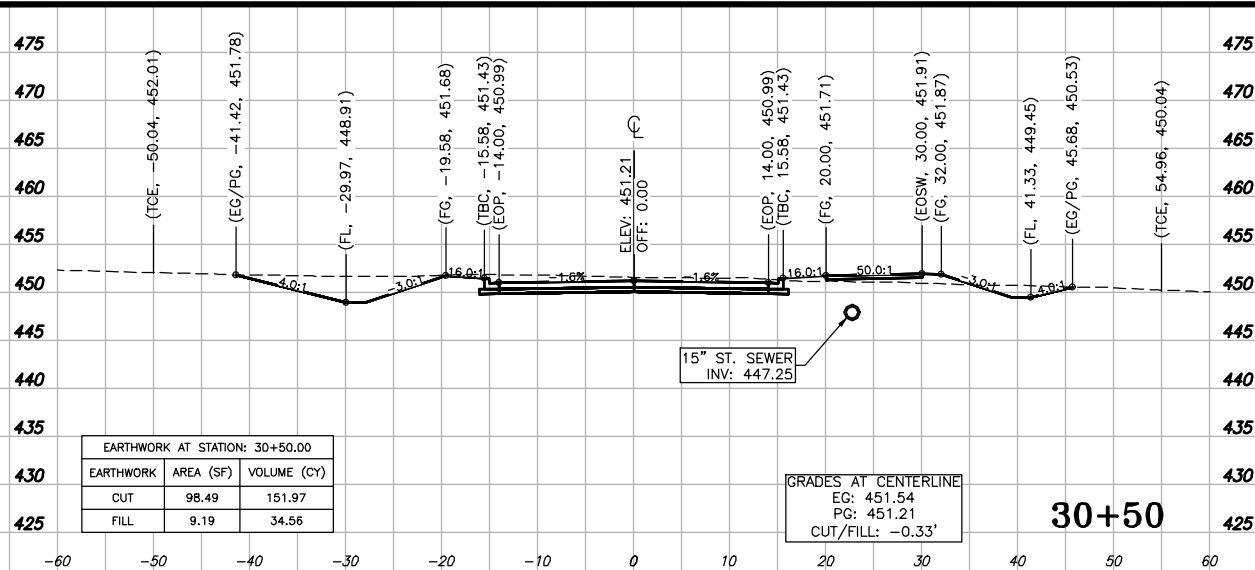
WATERWAY INFORMATION

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								
	100								
Overtopping									
Max. Calc.	500								

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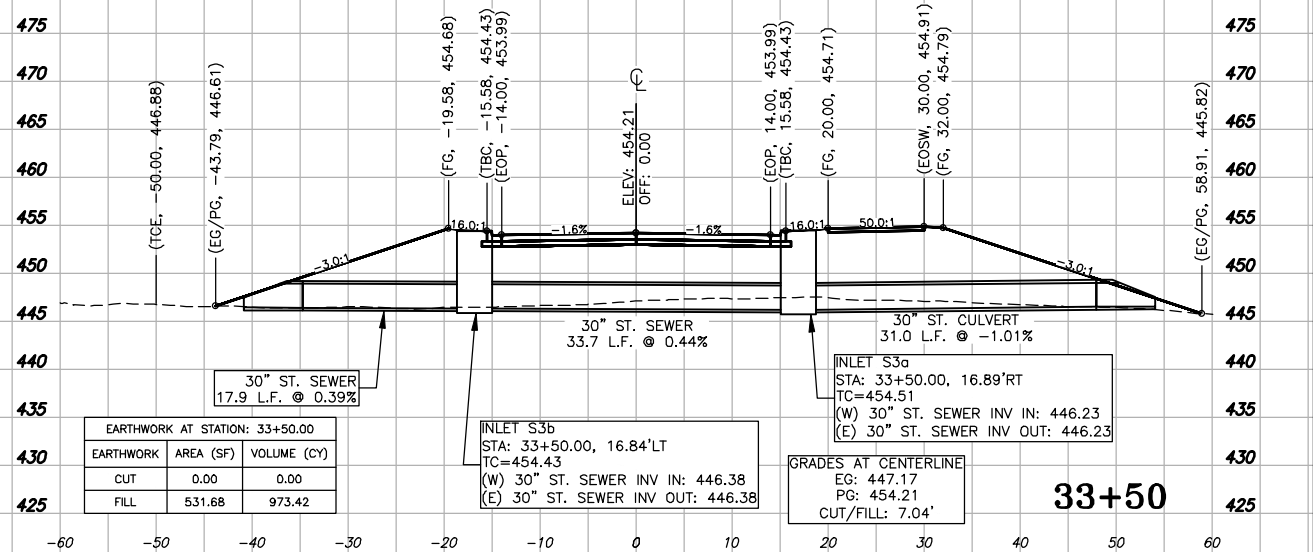
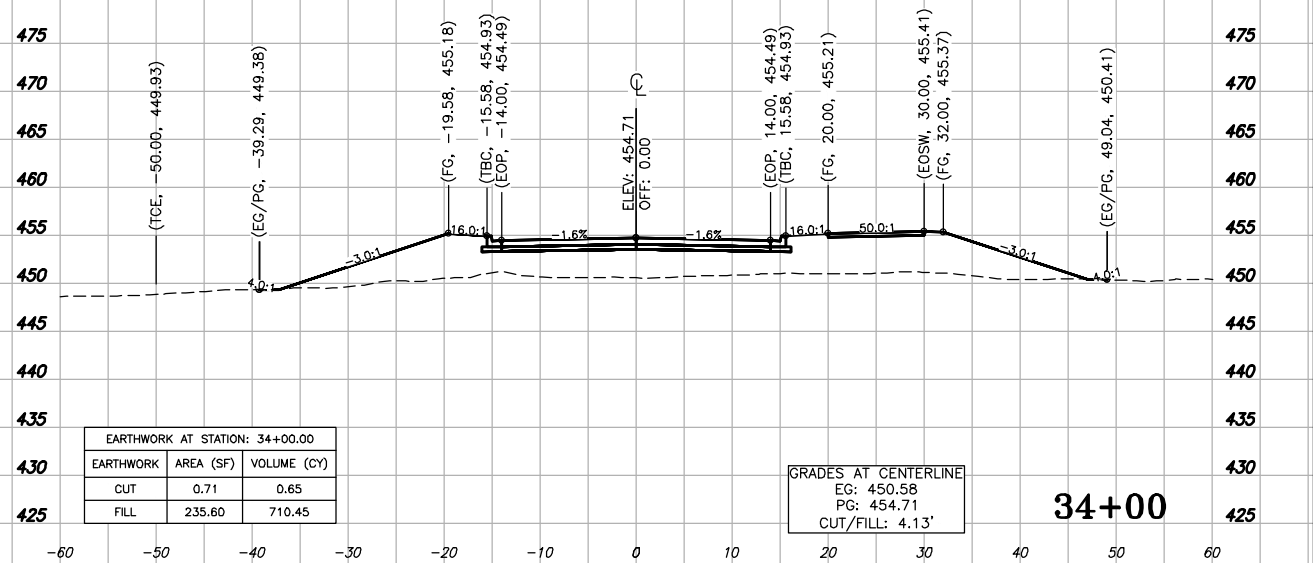
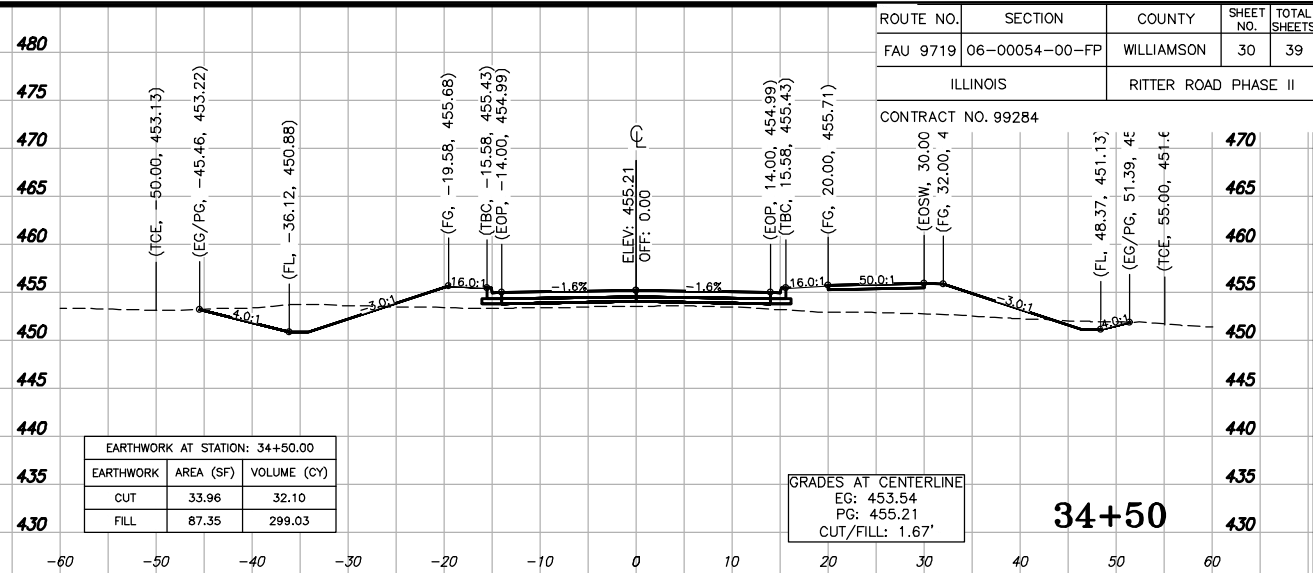
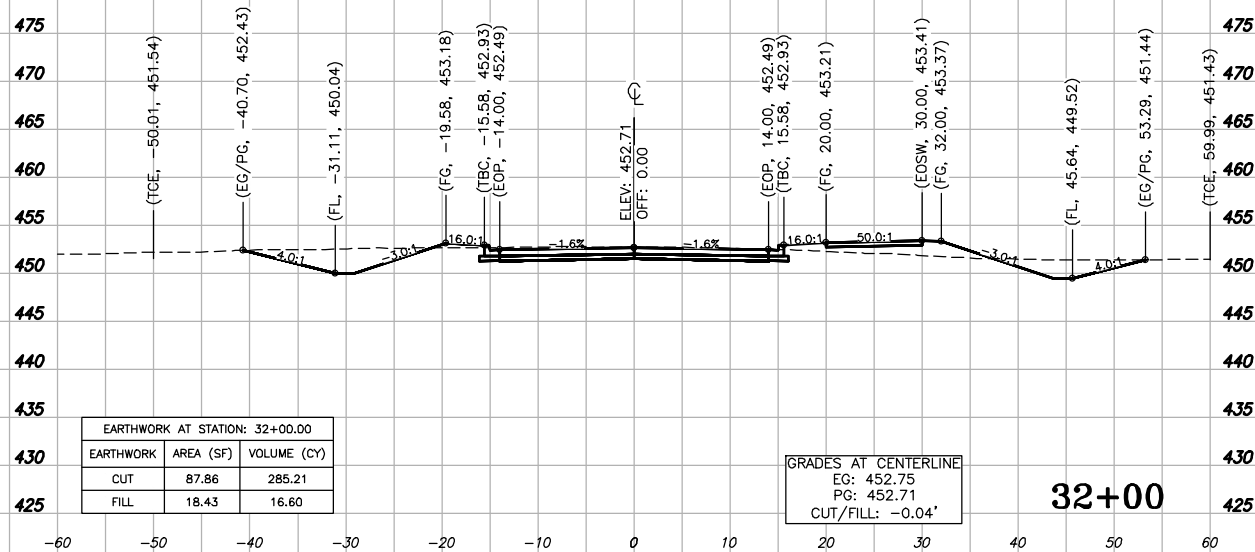
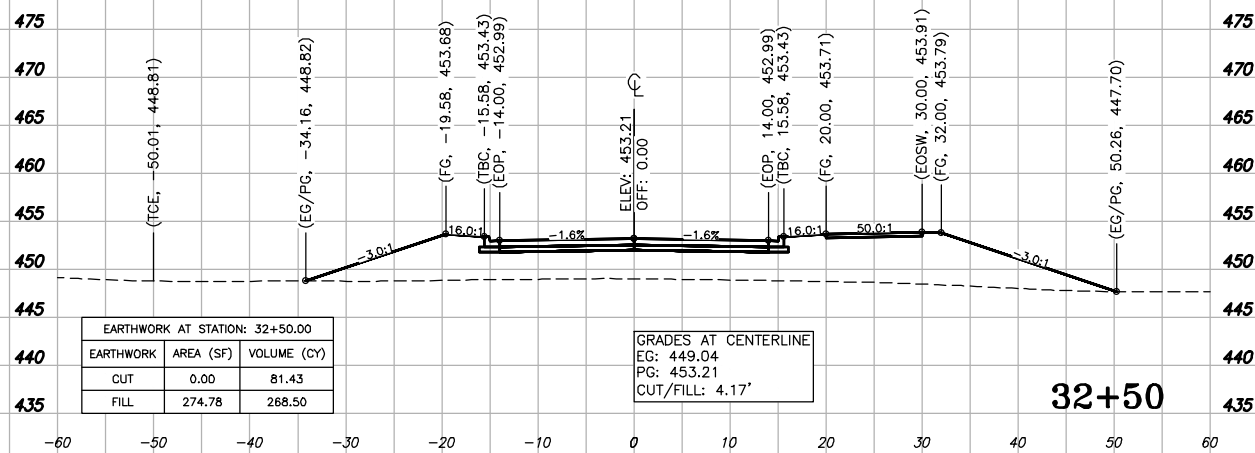
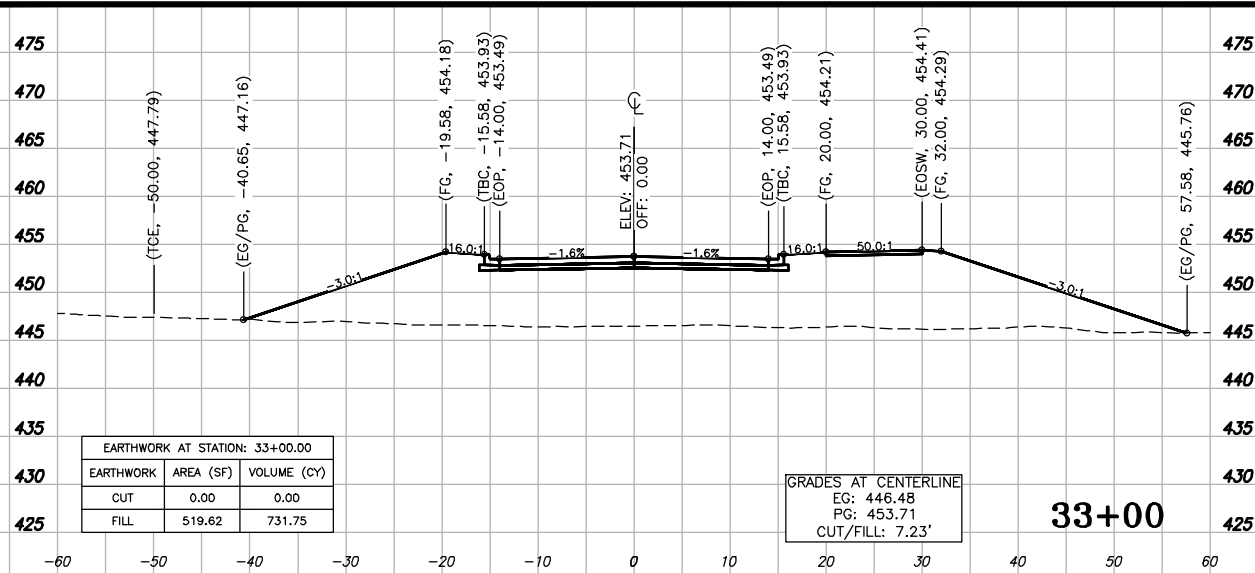
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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	29	39
ILLINOIS		RITTER ROAD PHASE II		

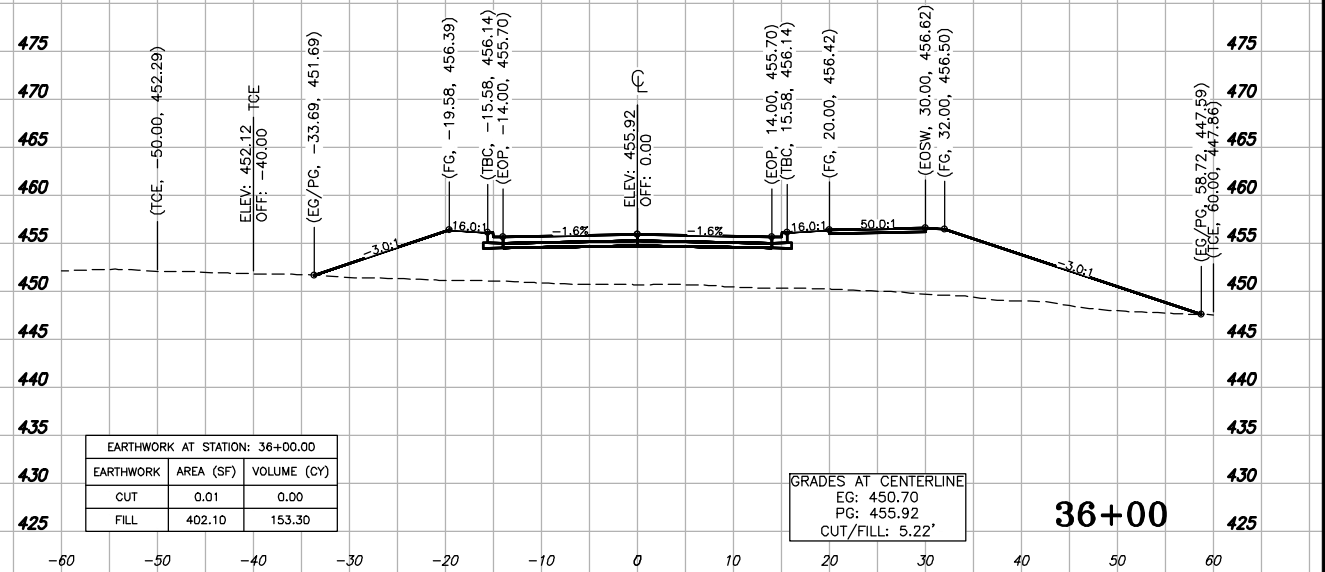
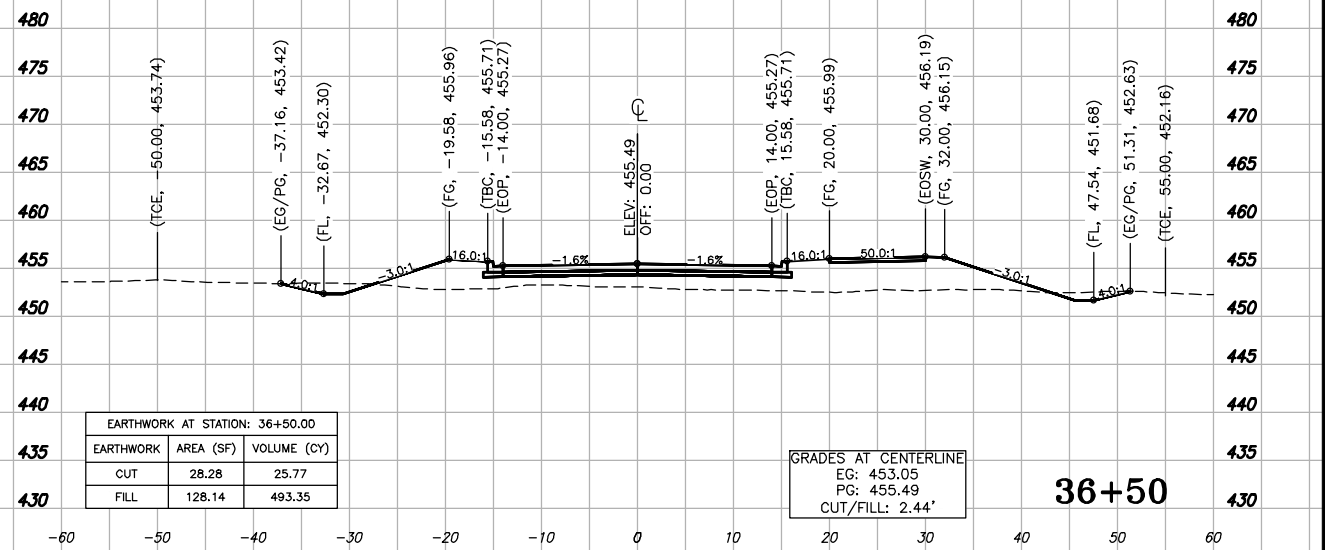
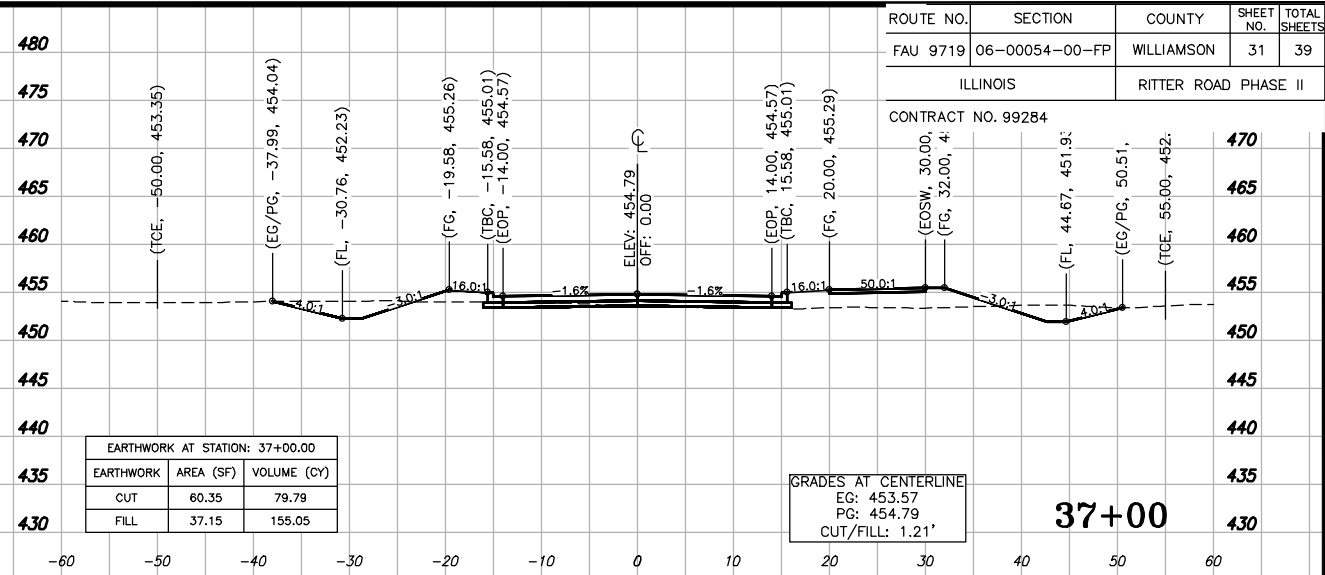
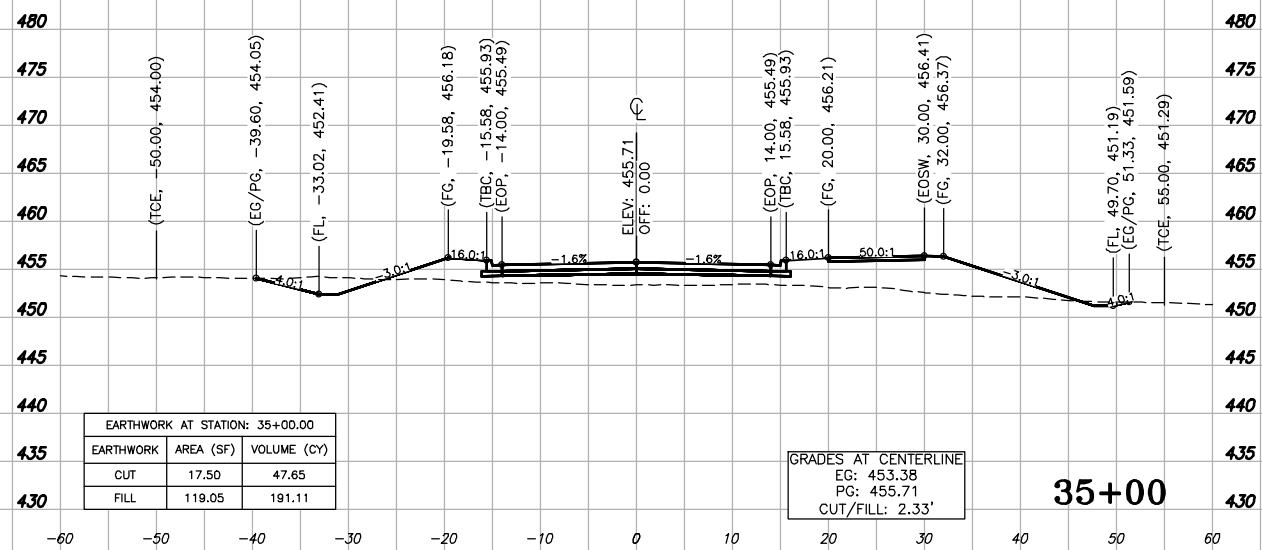
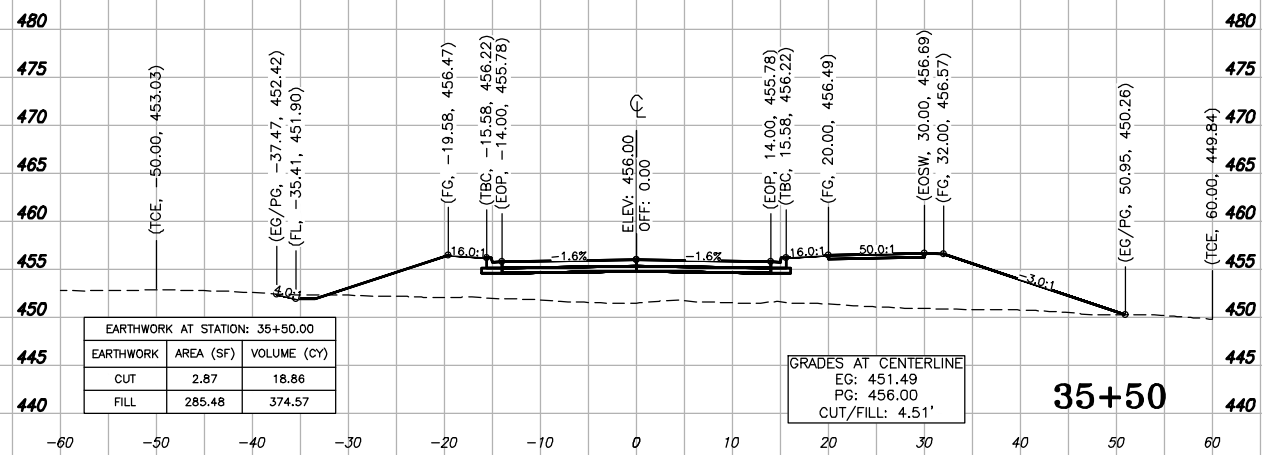
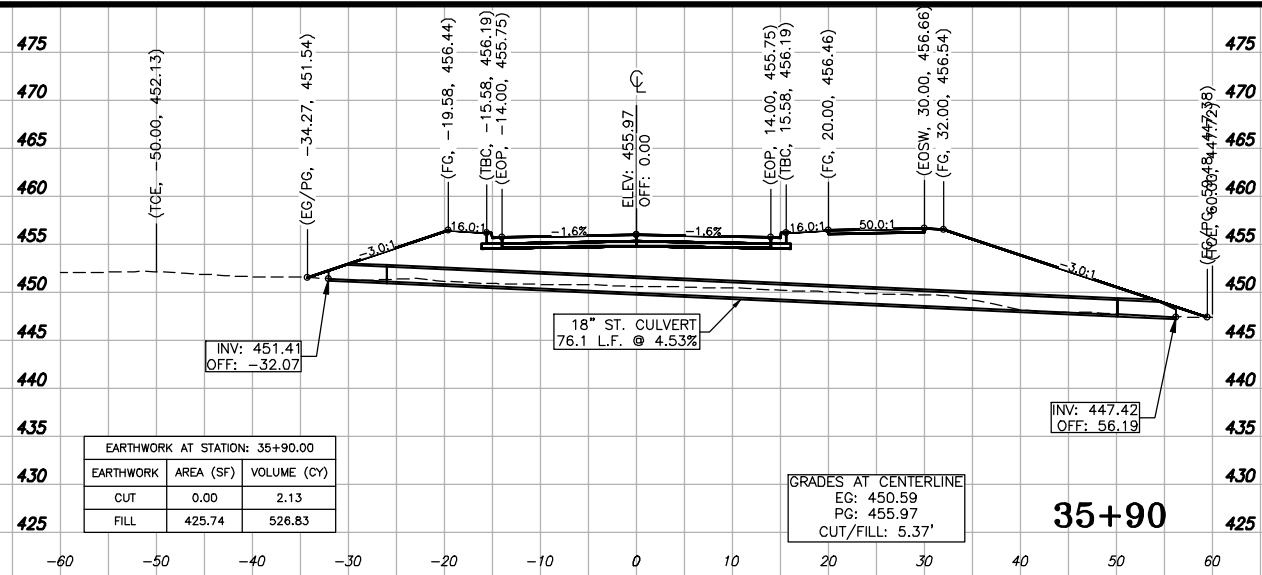
CONTRACT NO. 99284

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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
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ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

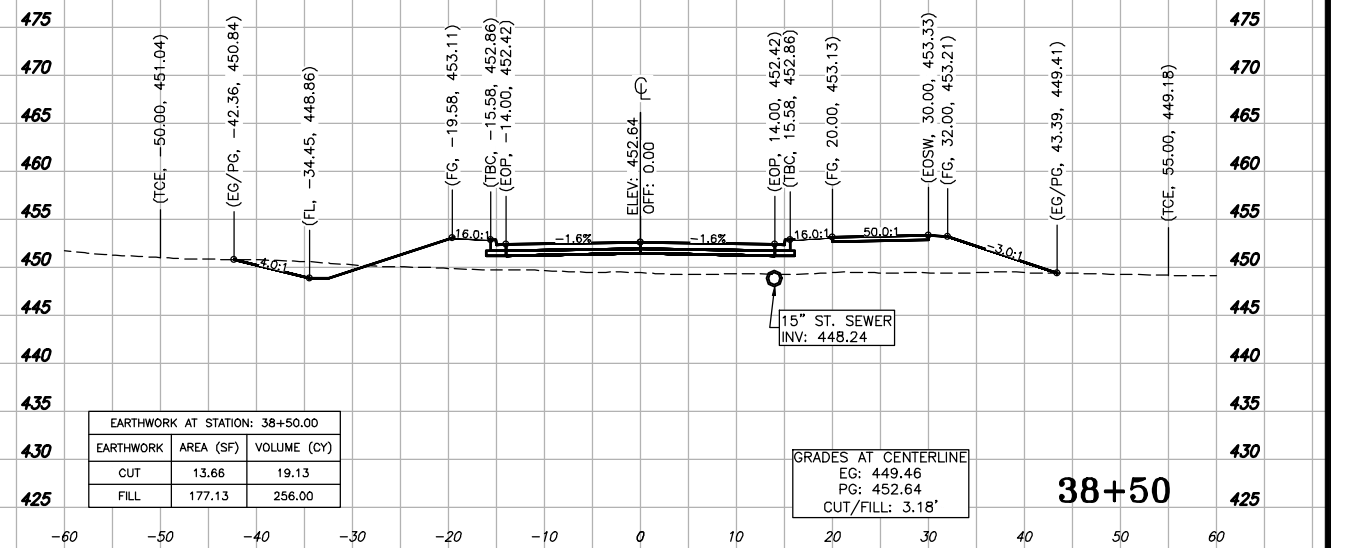
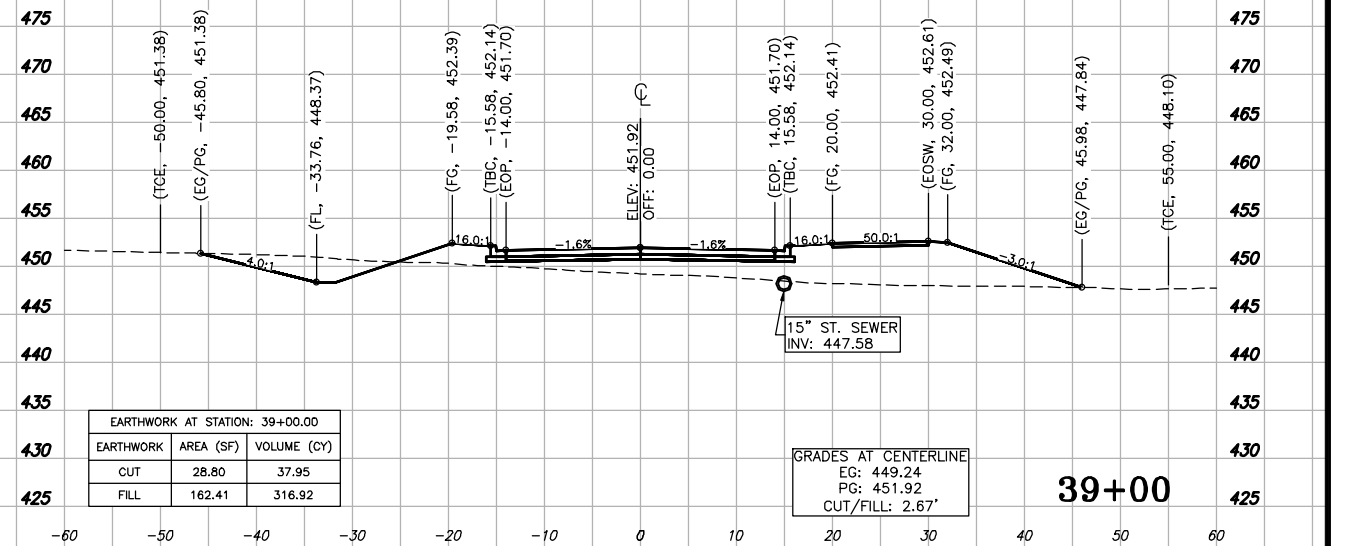
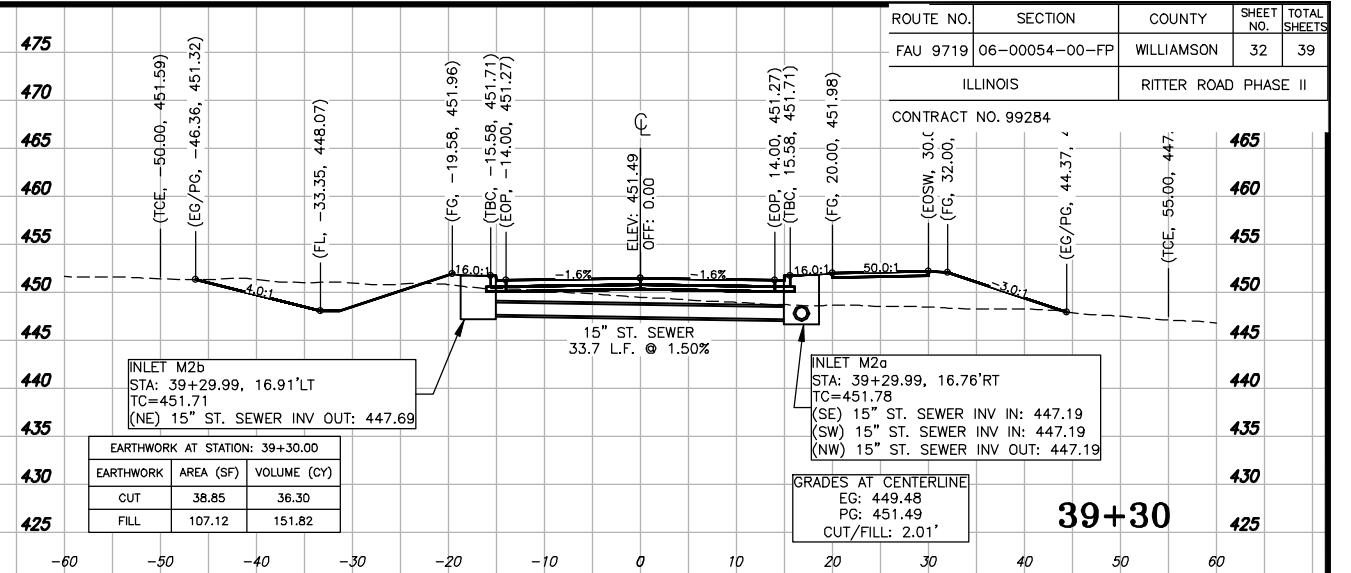
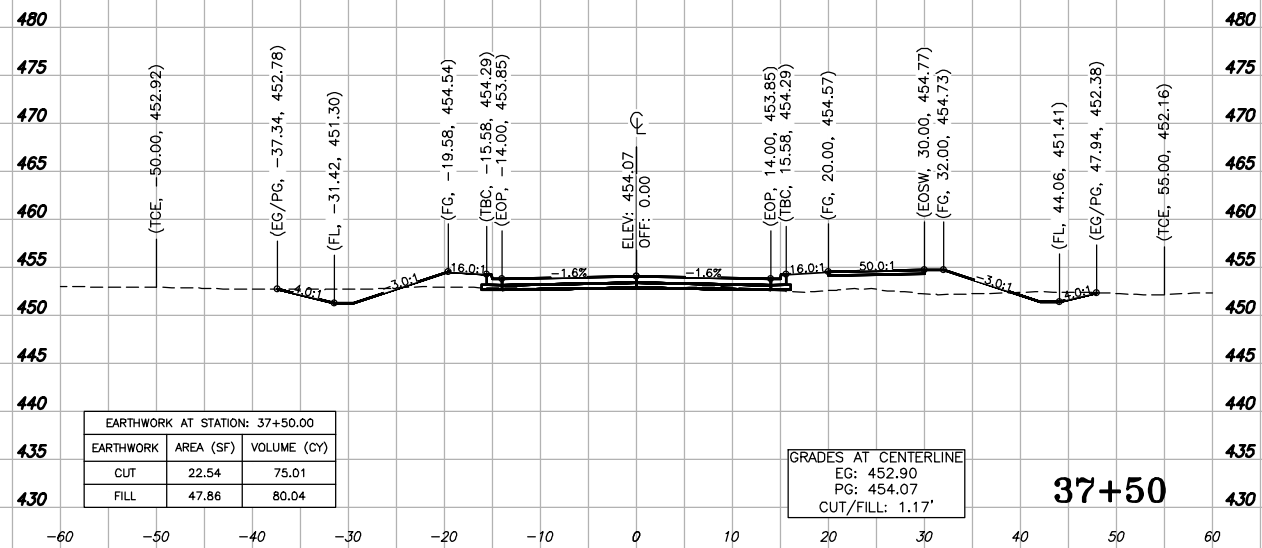
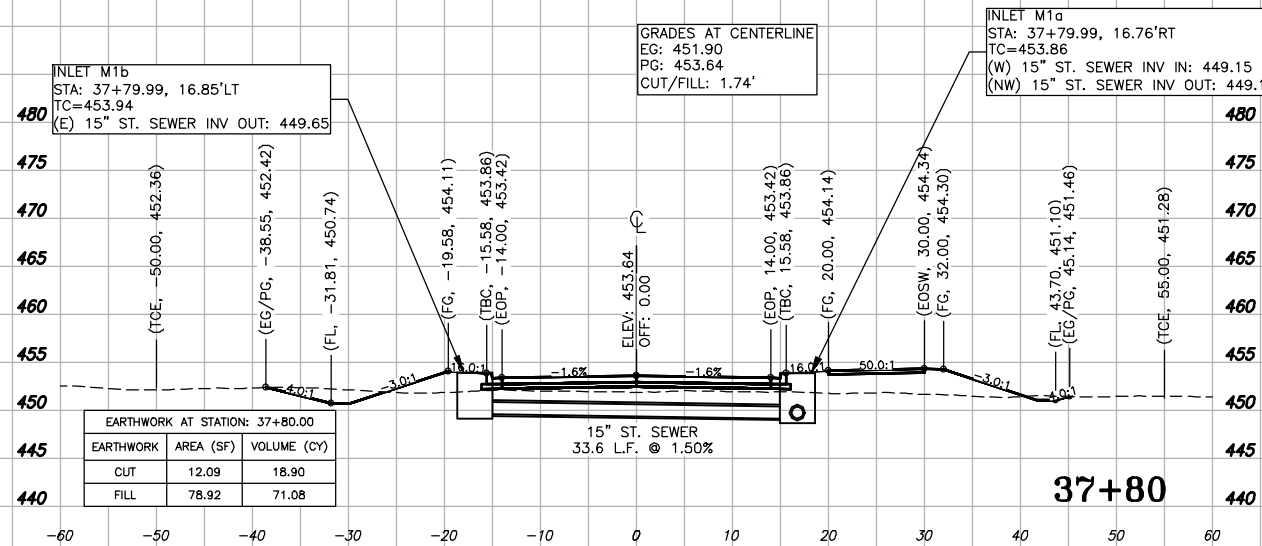
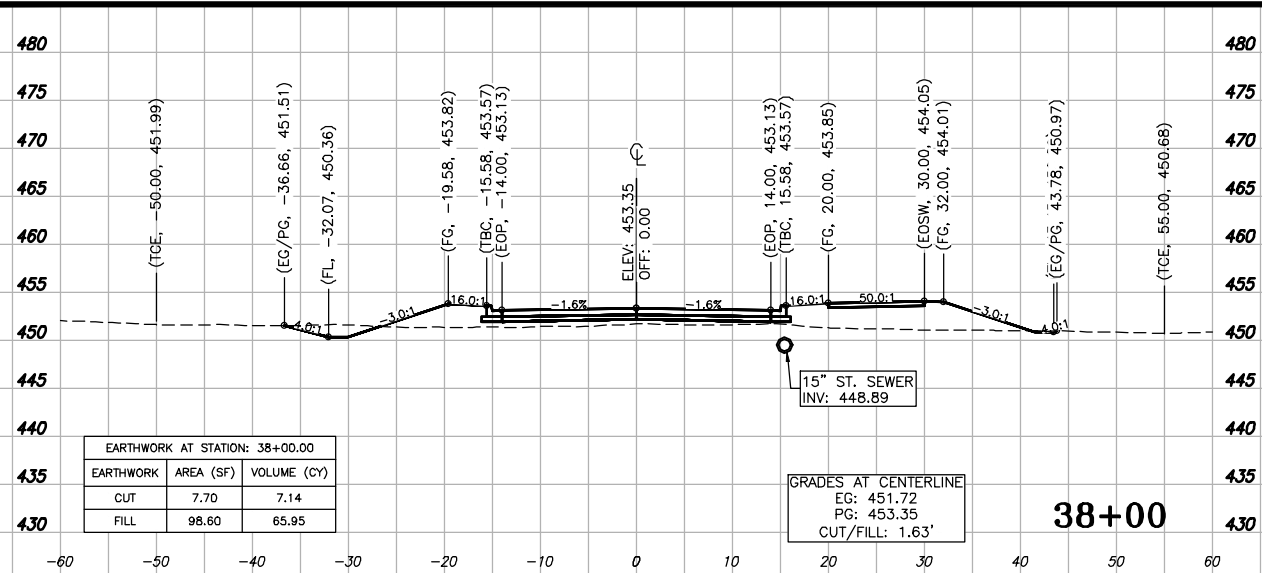
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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	31	39

ILLINOIS
RITTER ROAD PHASE II
CONTRACT NO. 99284

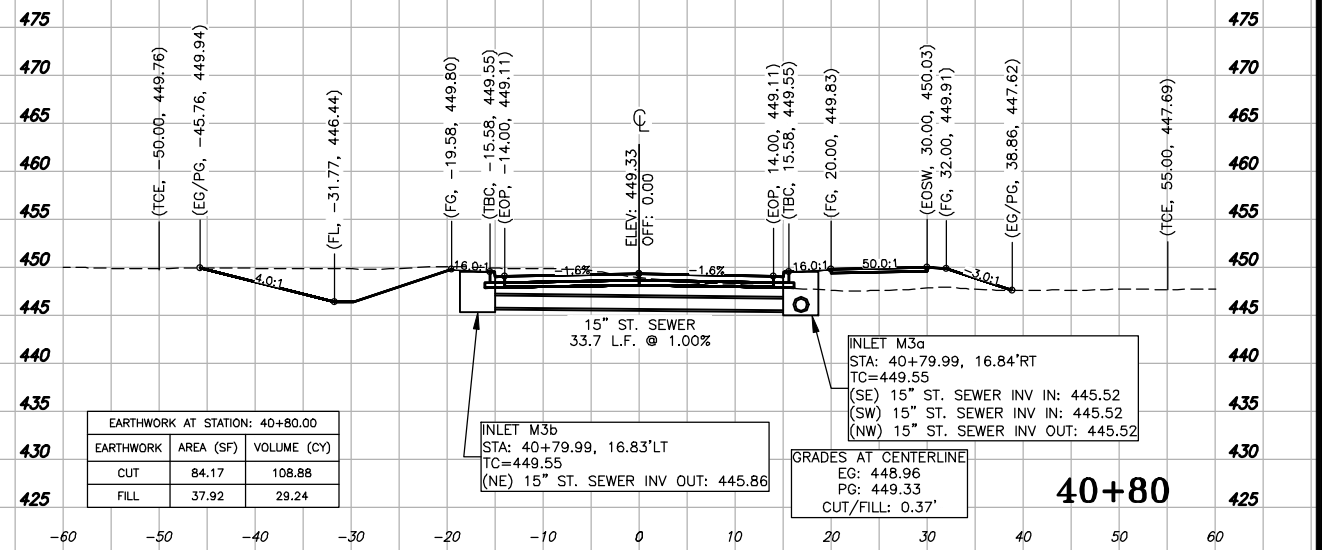
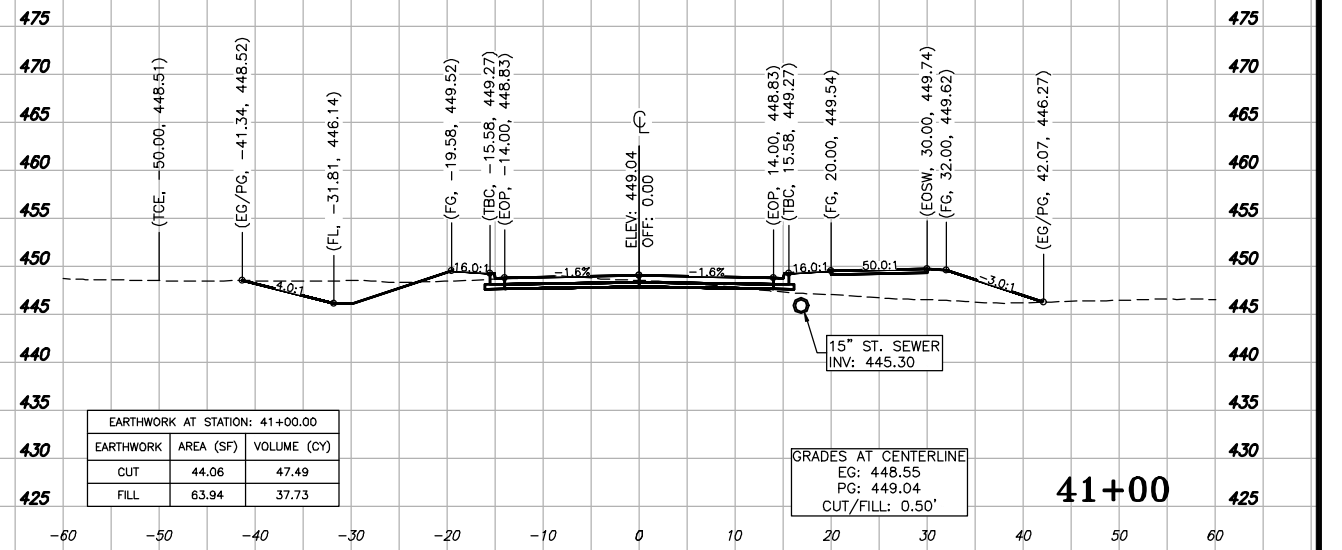
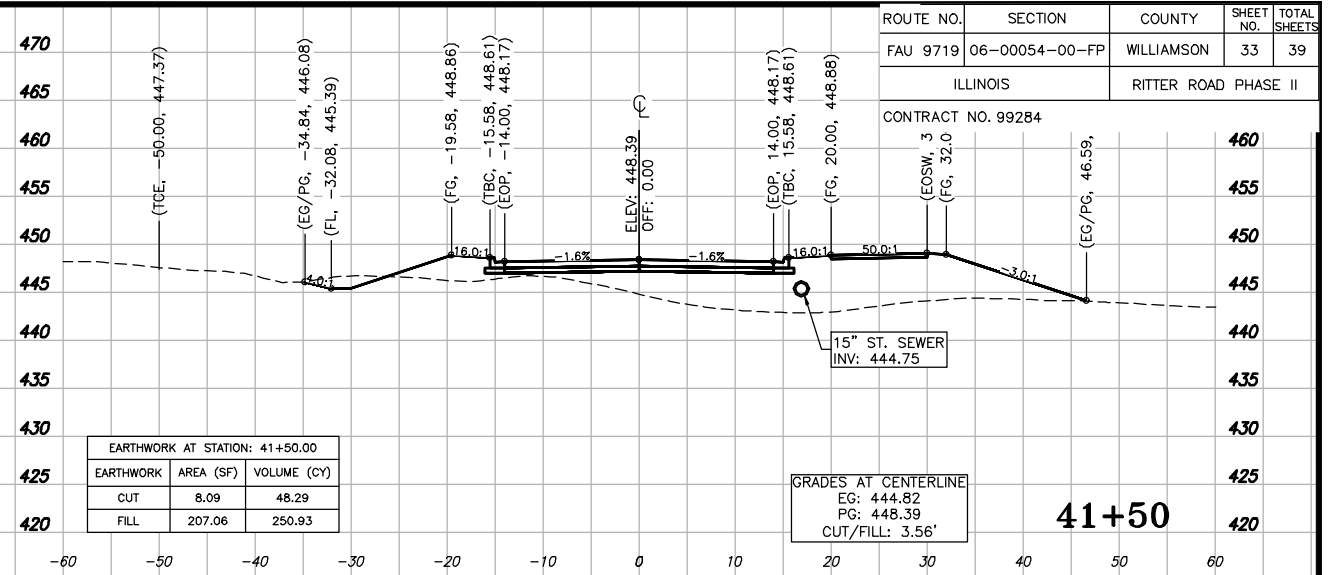
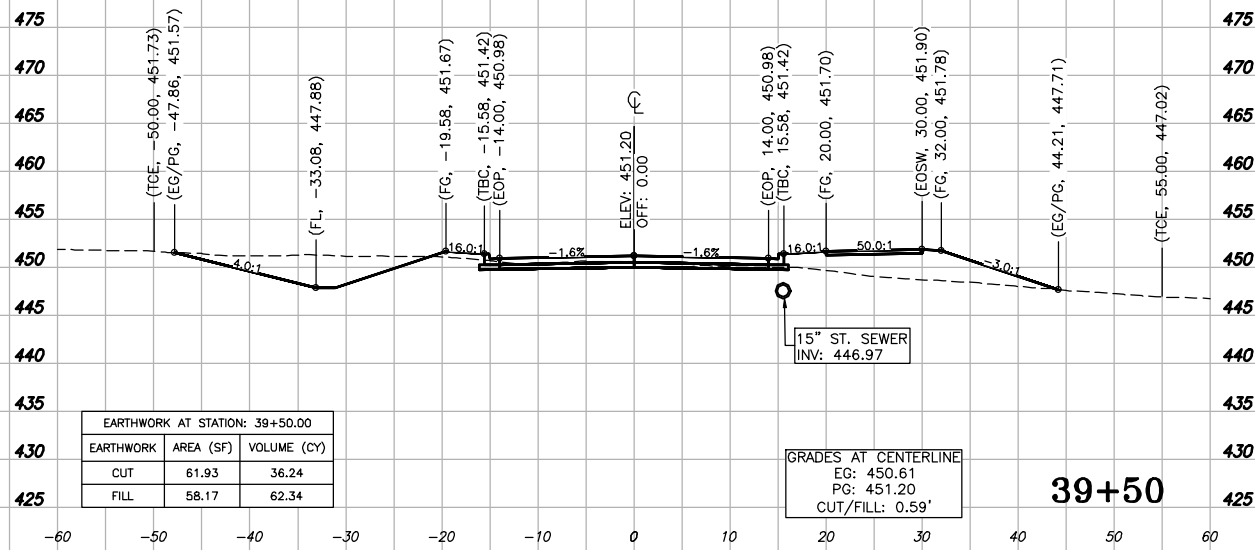
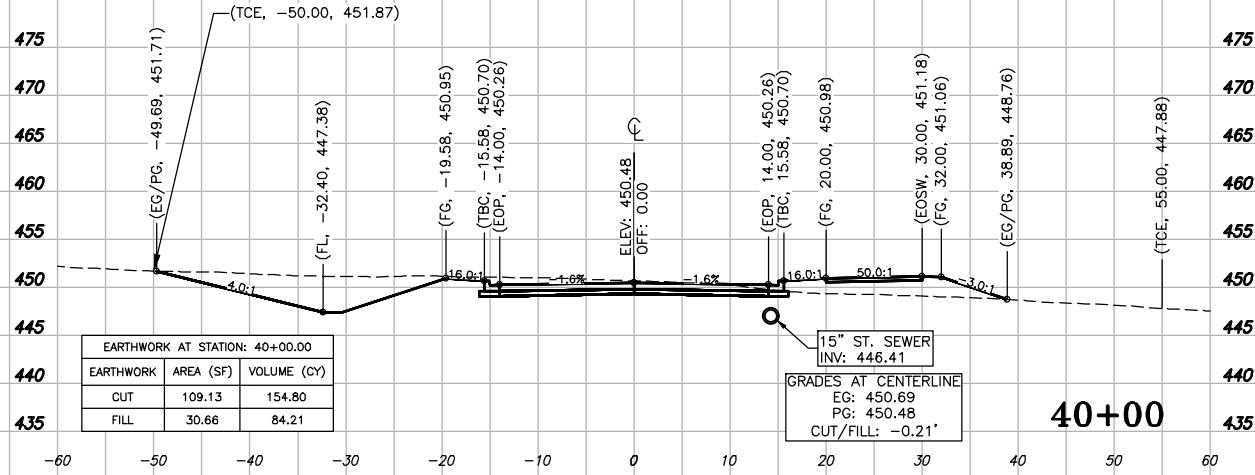
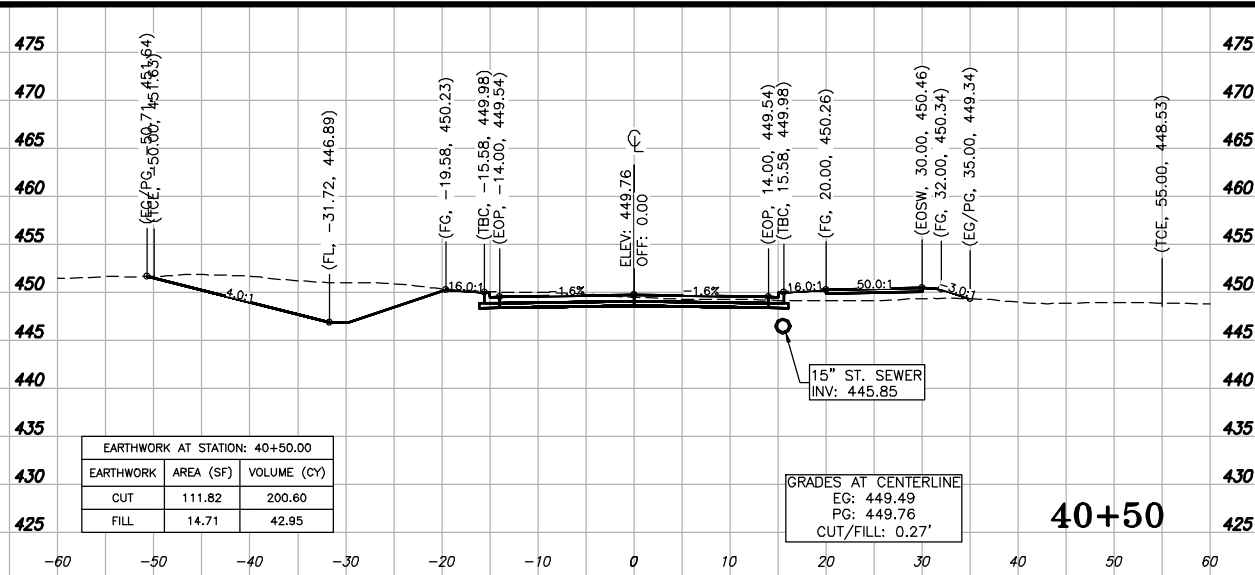
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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	32	39

ILLINOIS
CONTRACT NO. 99284
RITTER ROAD PHASE II

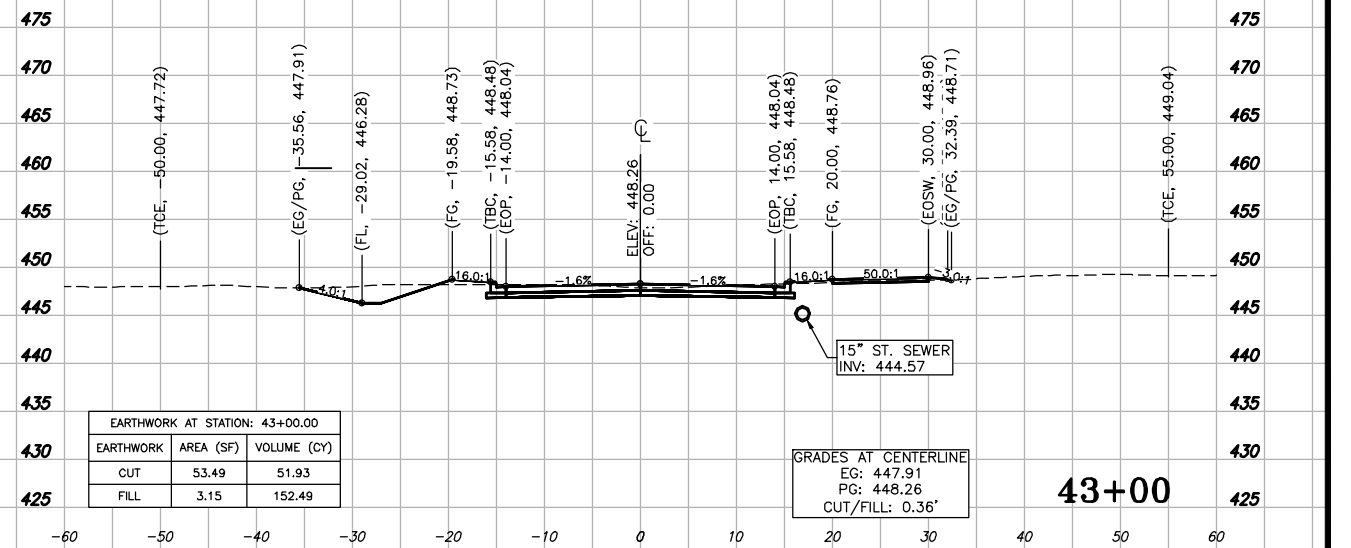
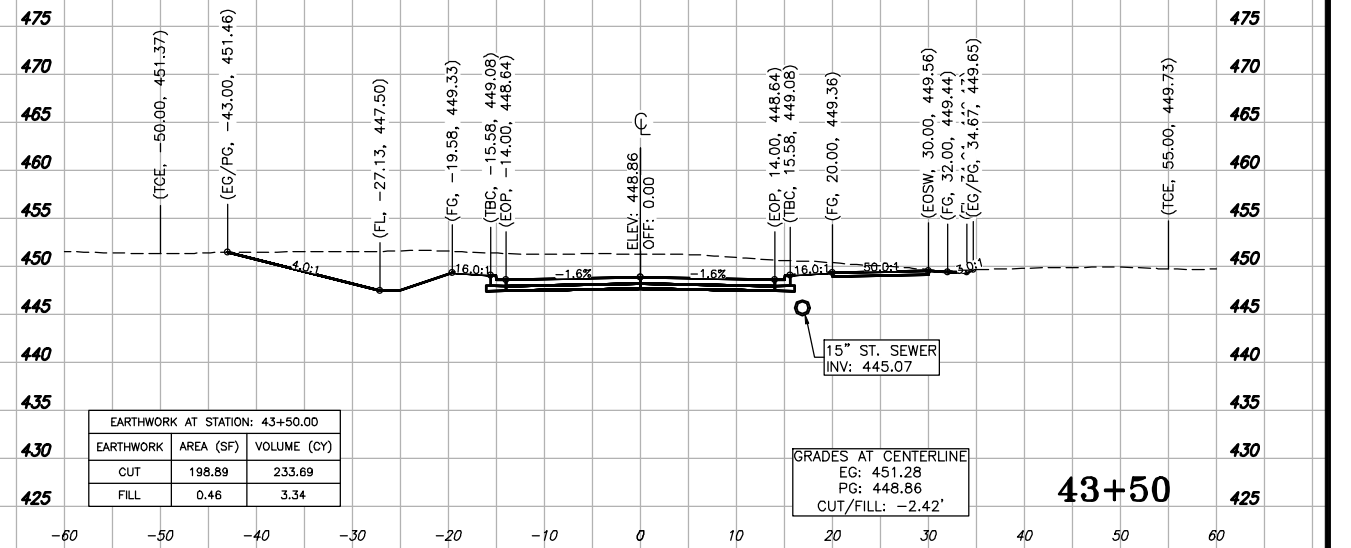
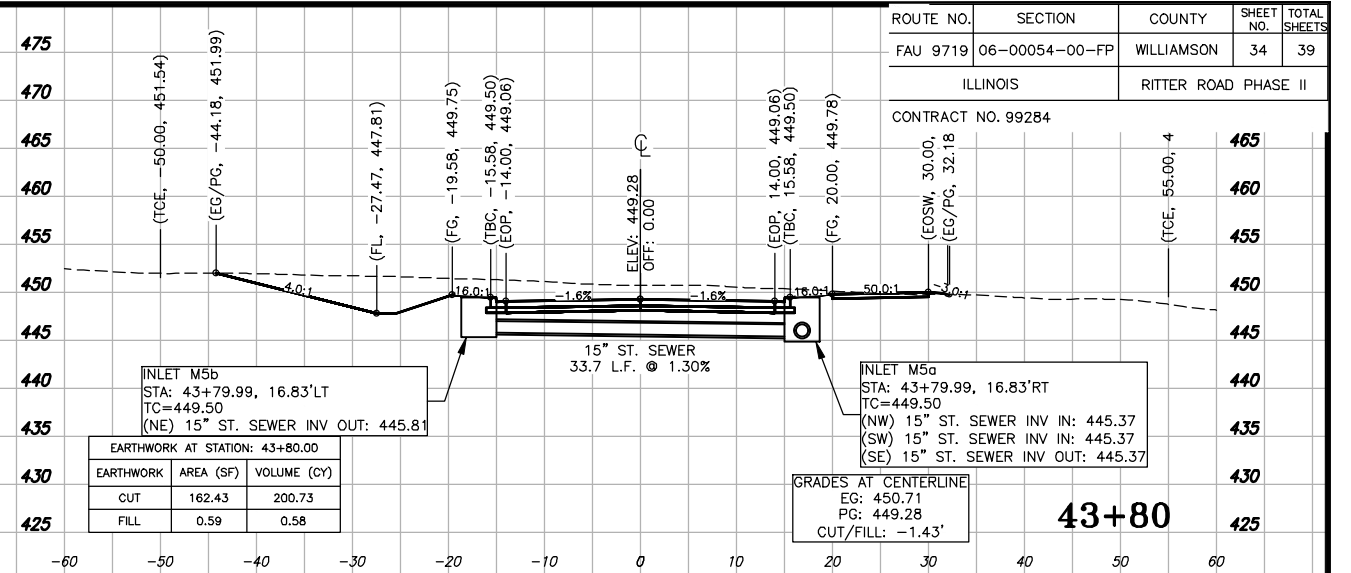
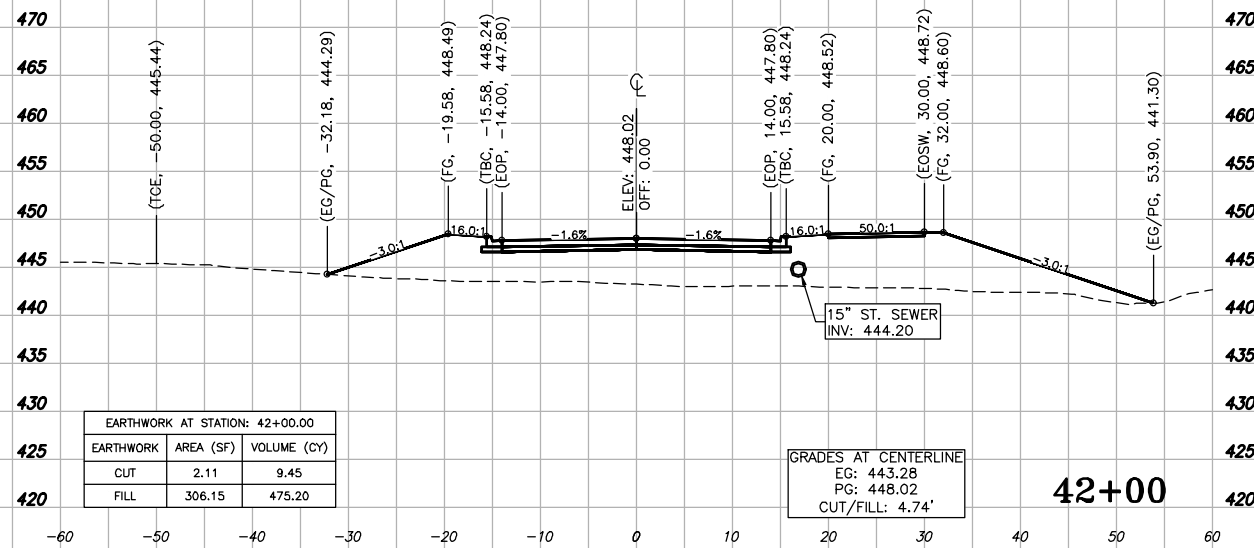
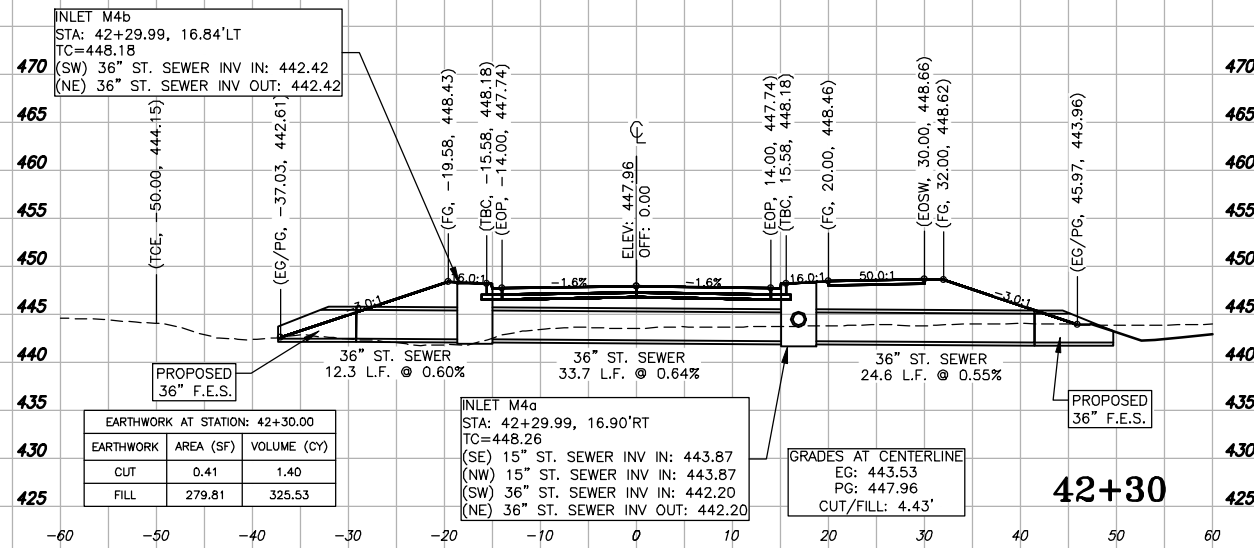
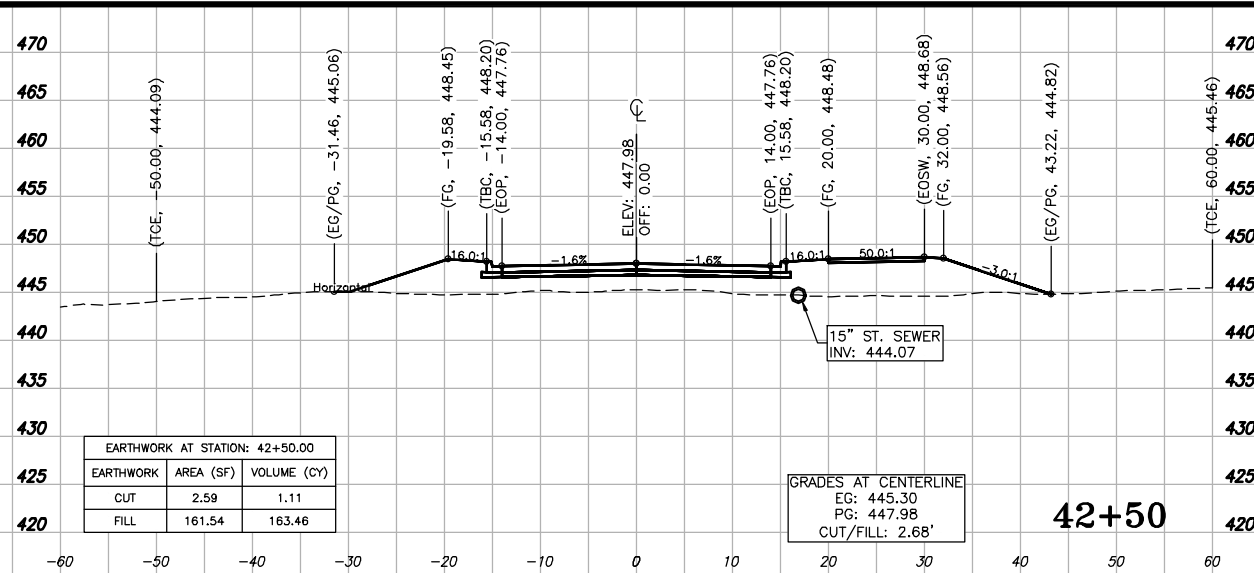
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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	33	39
ILLINOIS		RITTER ROAD PHASE II		

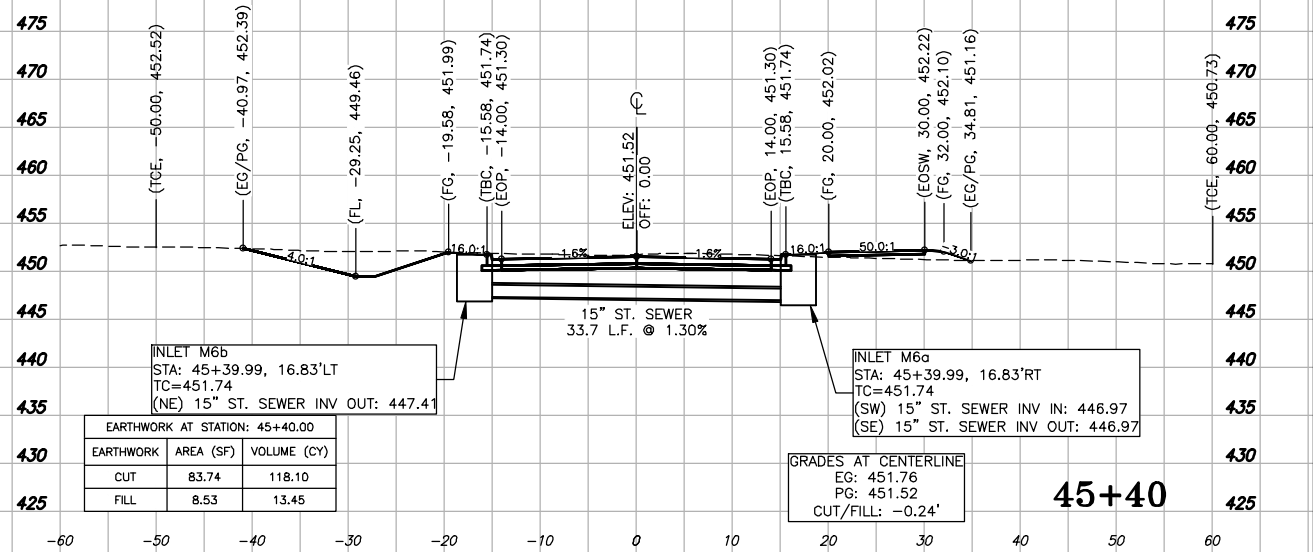
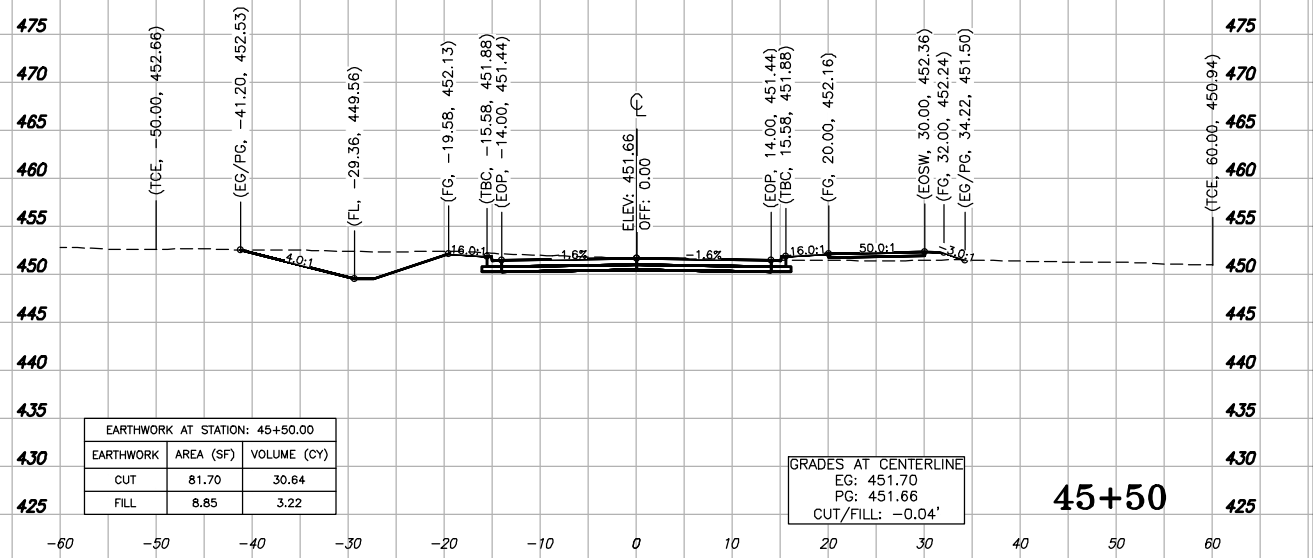
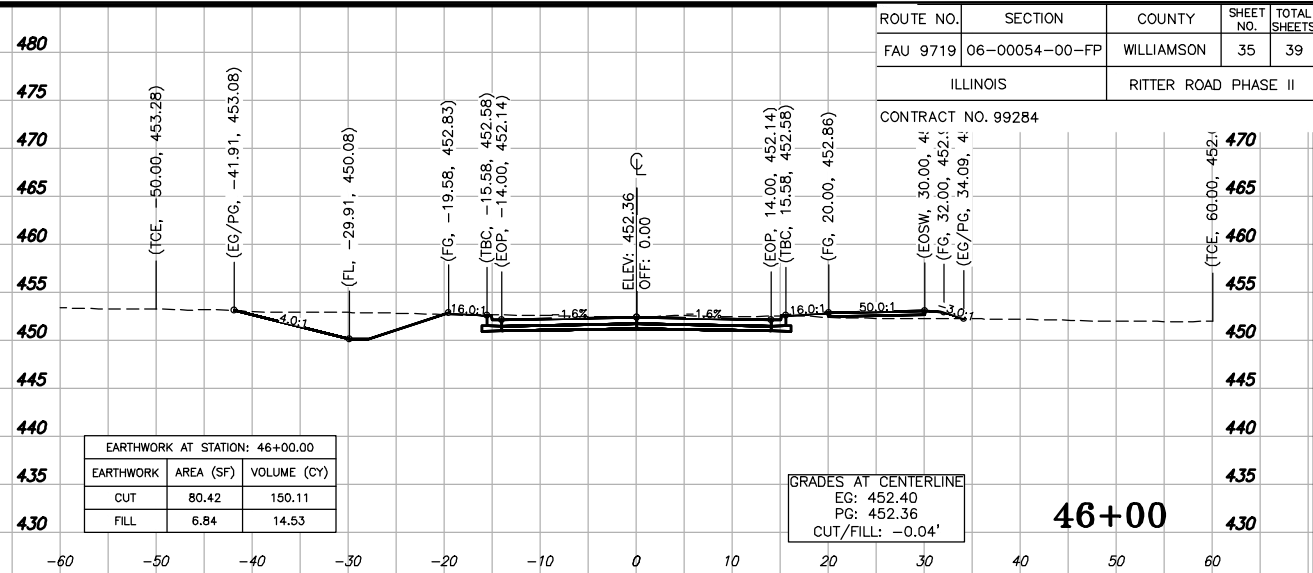
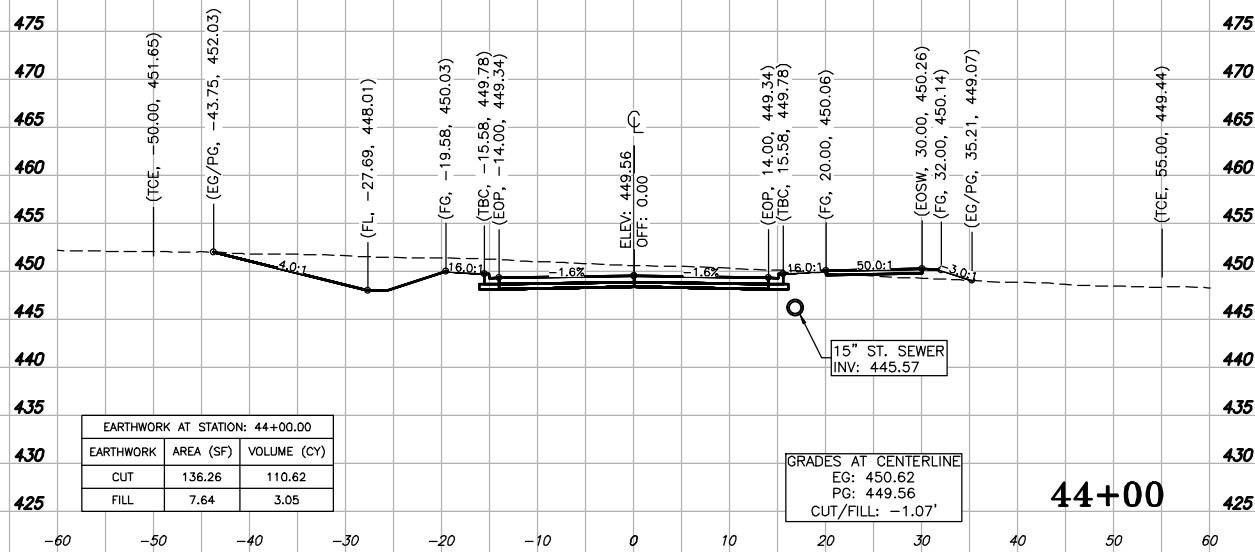
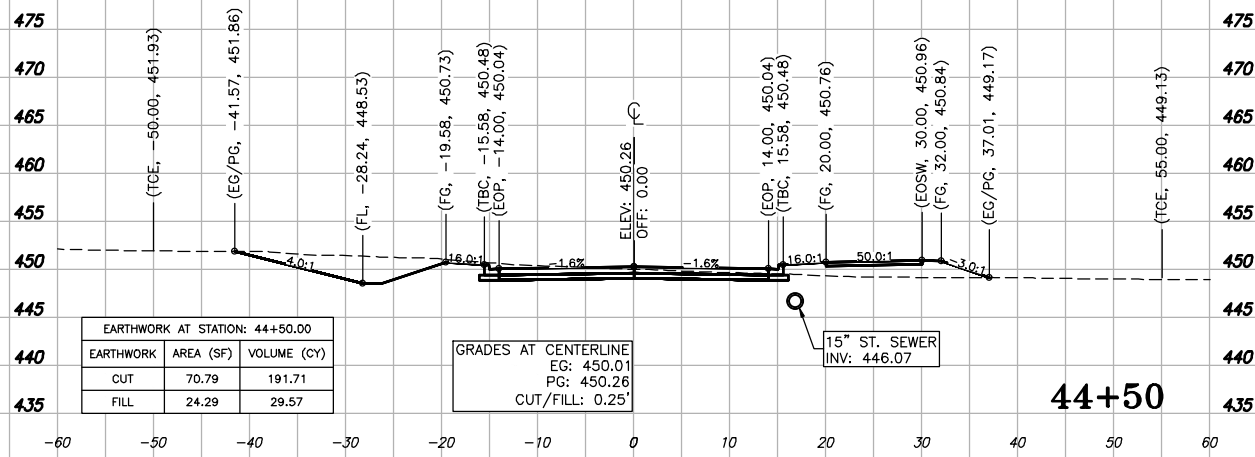
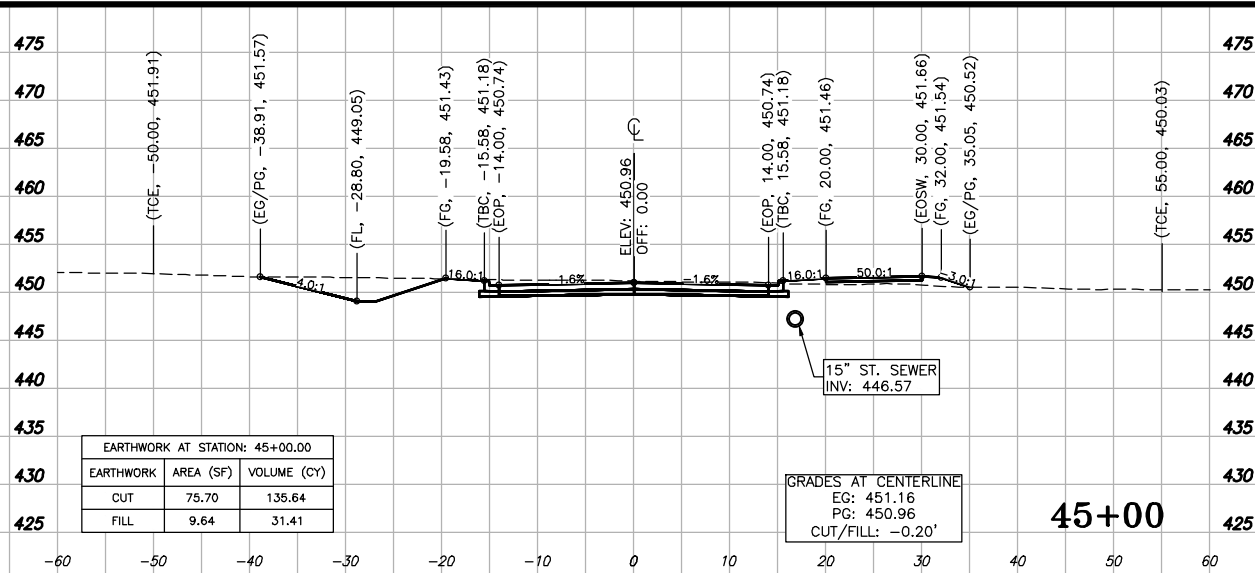
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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	34	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

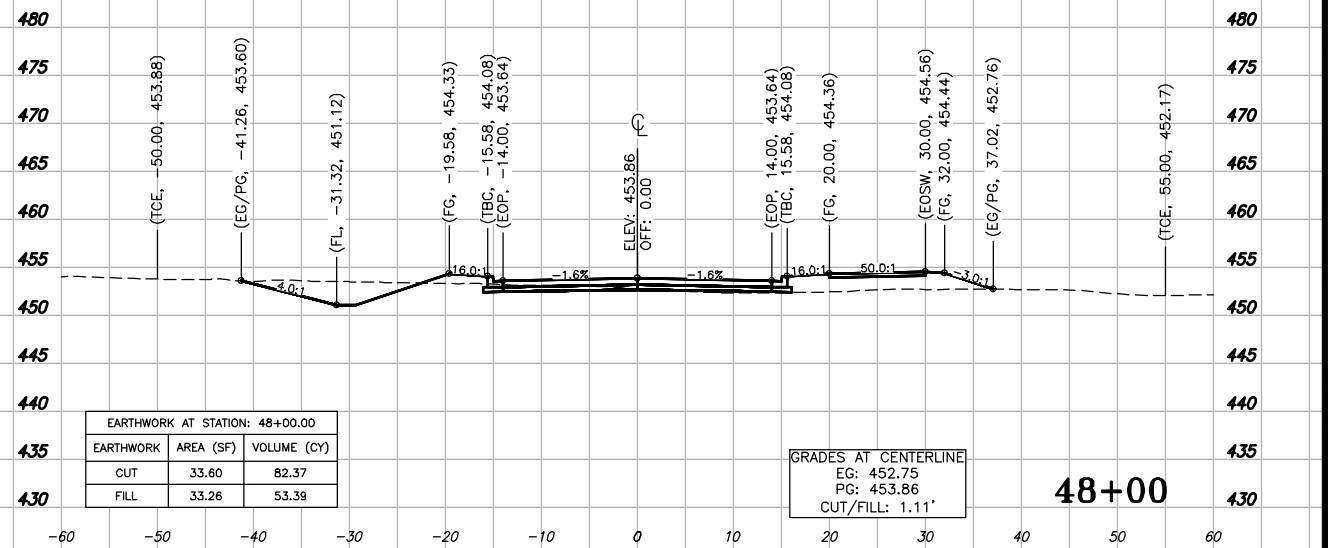
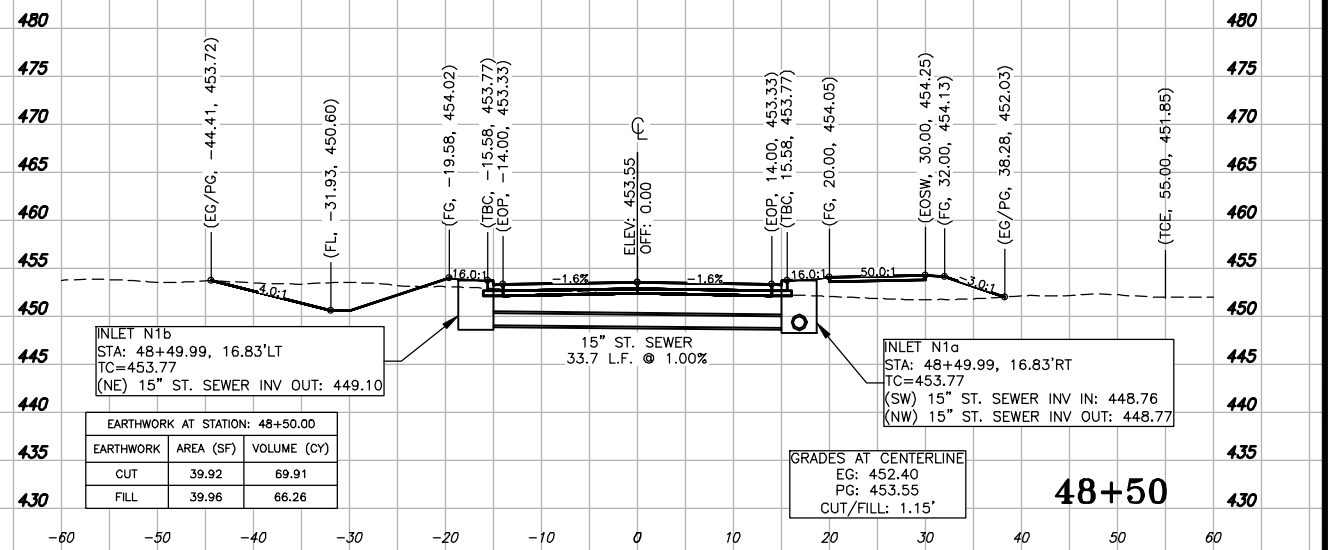
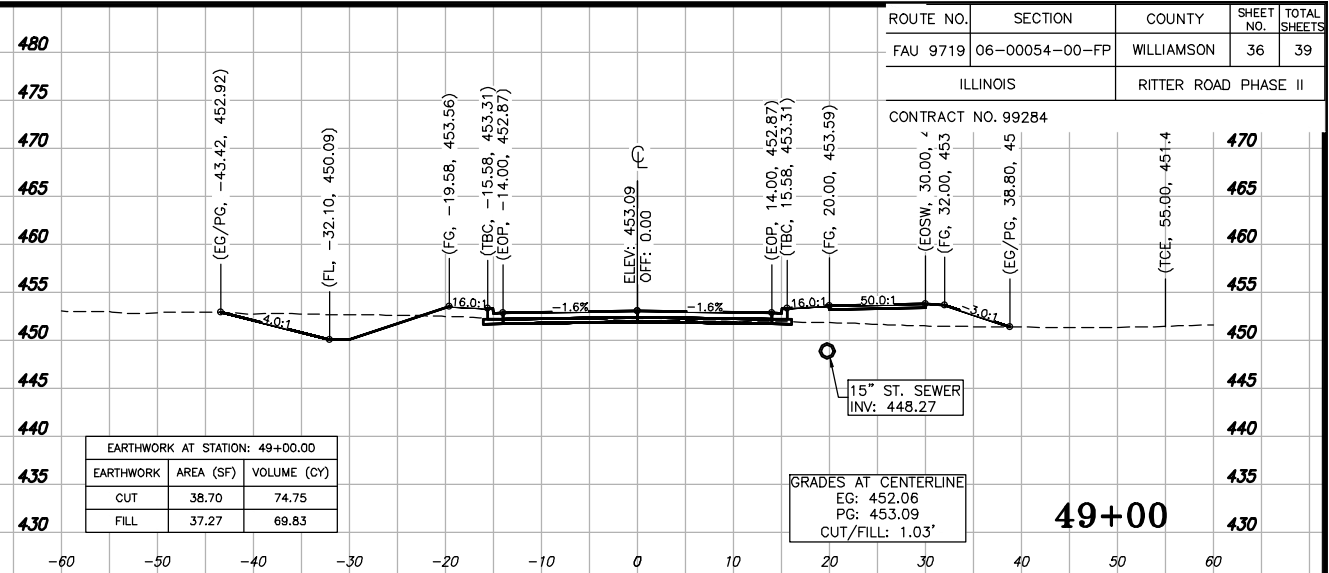
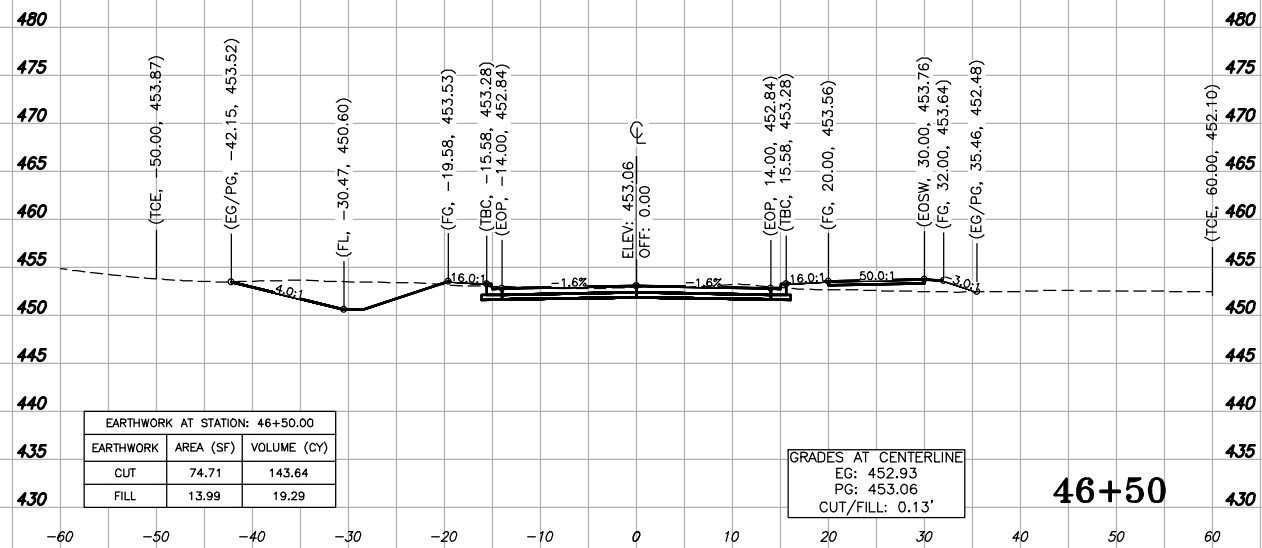
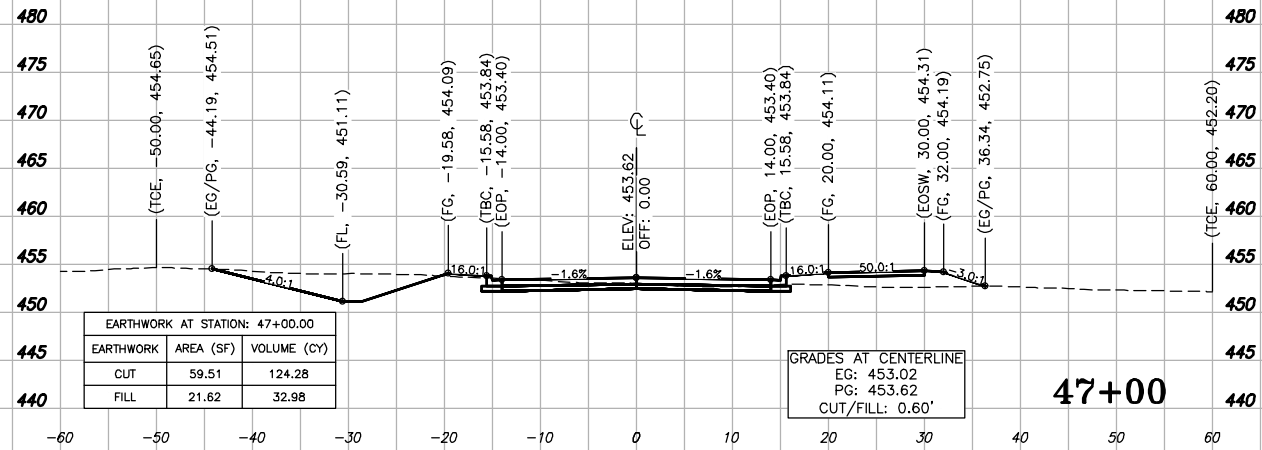
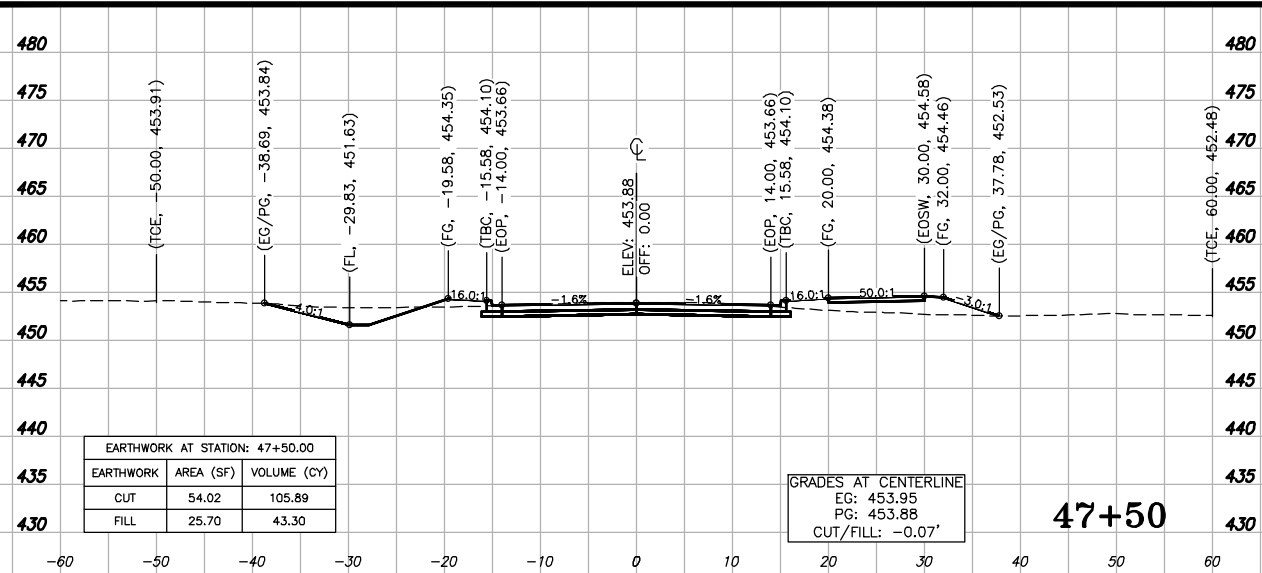
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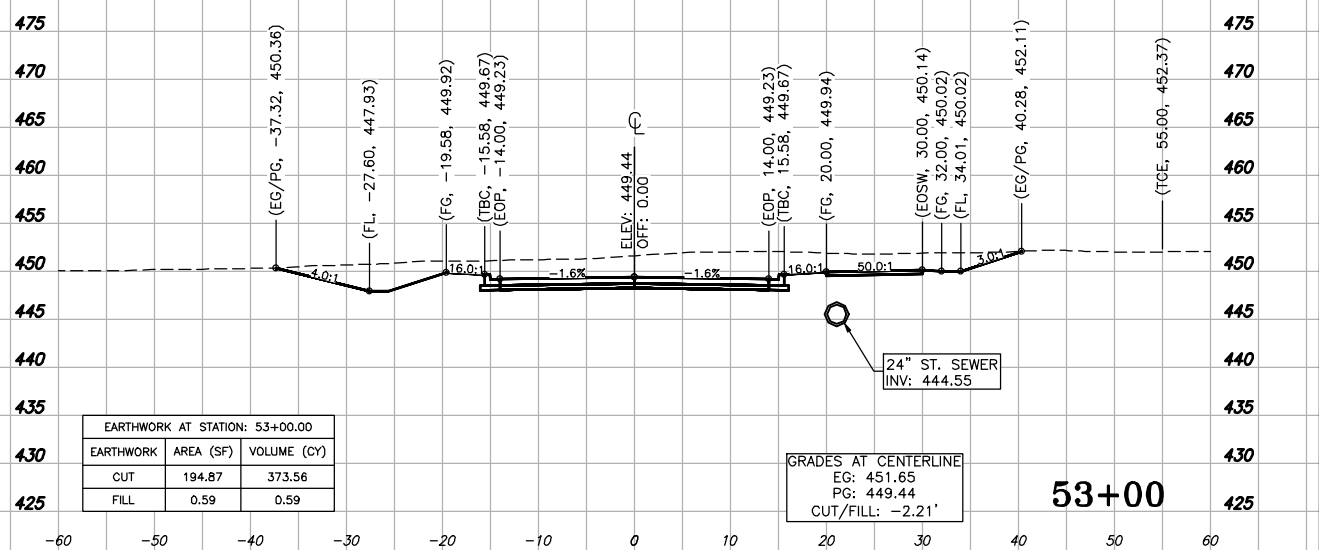
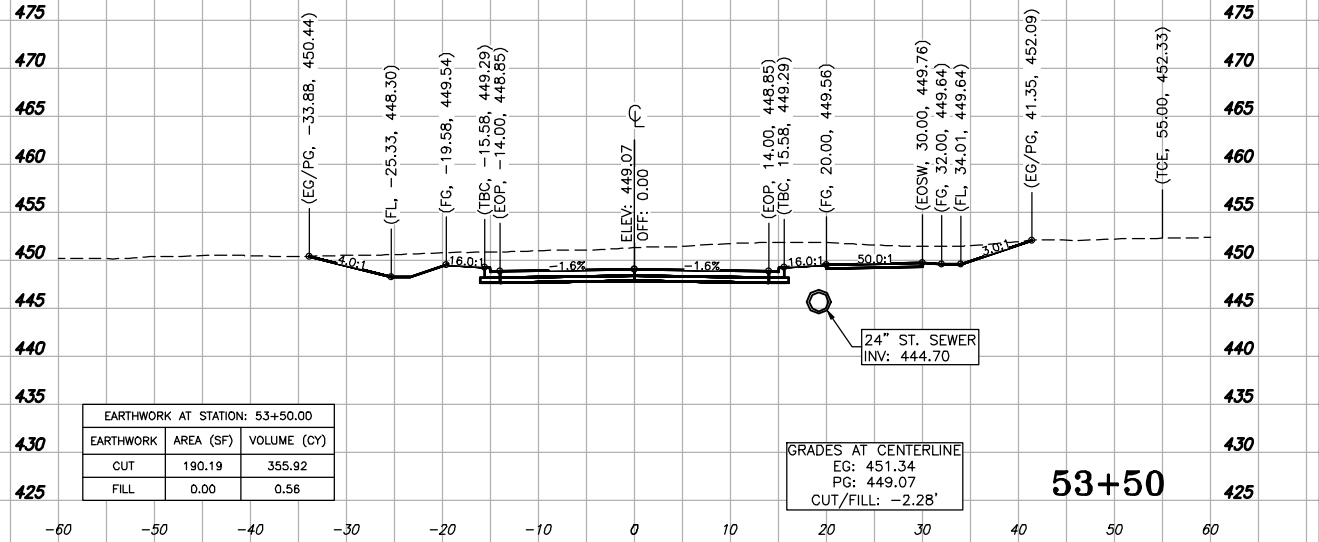
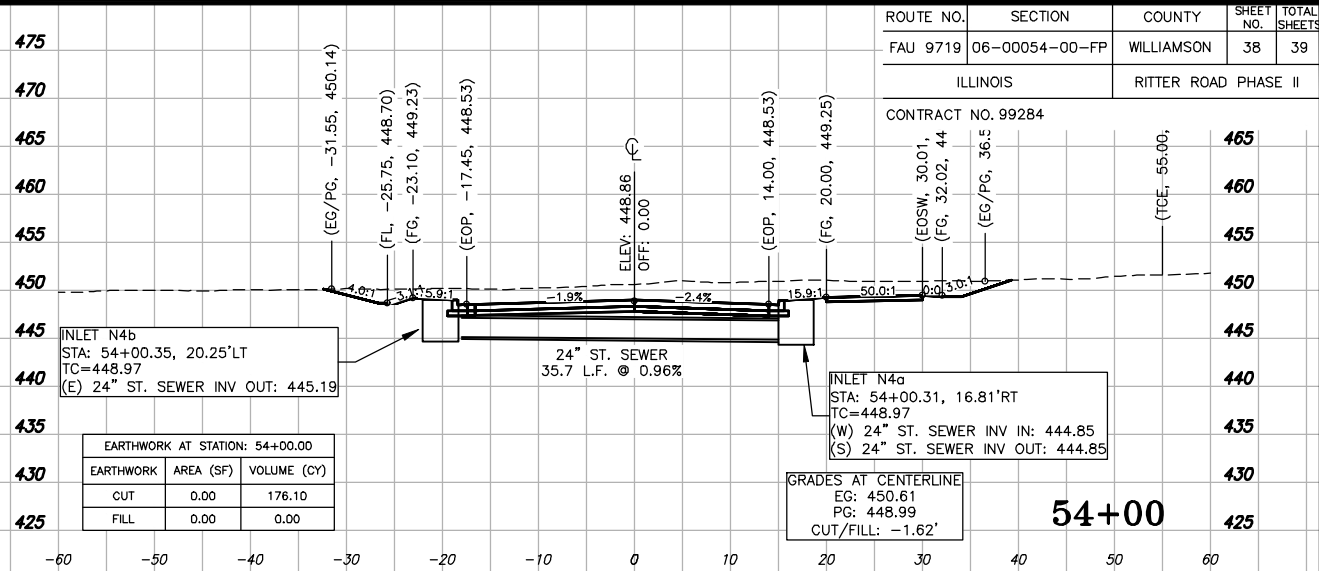
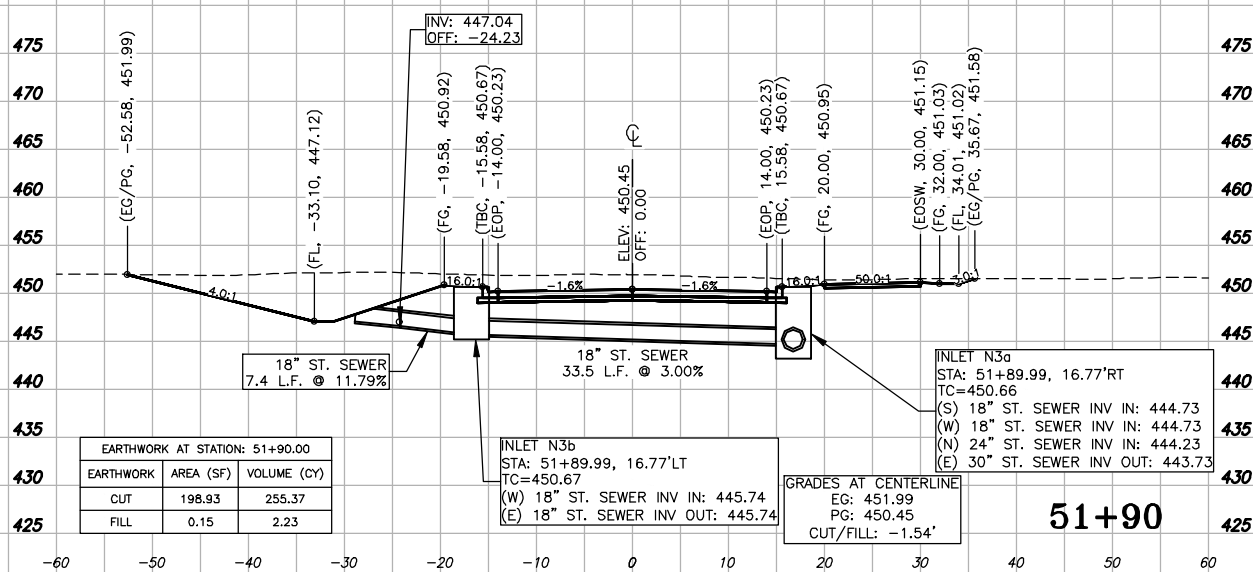
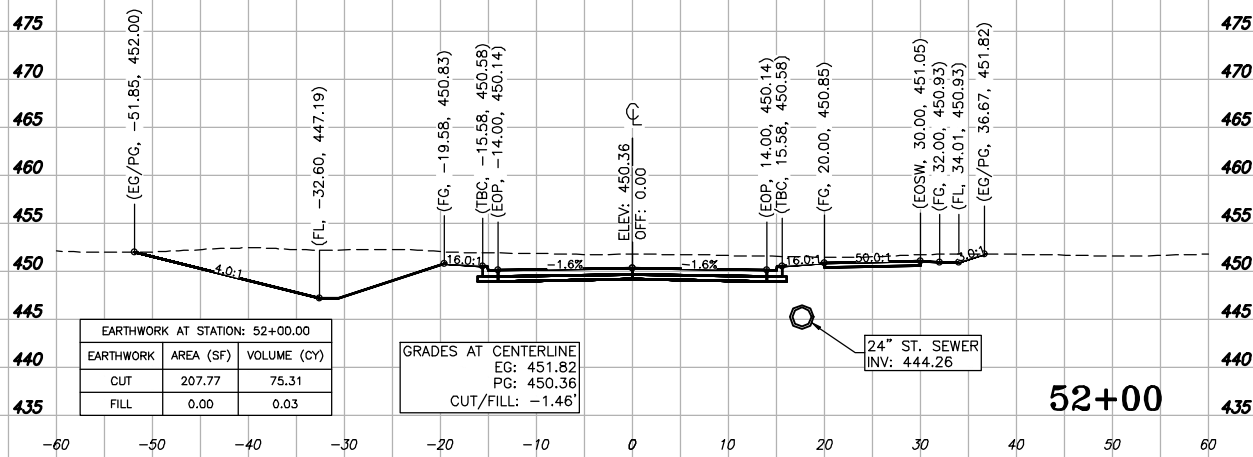
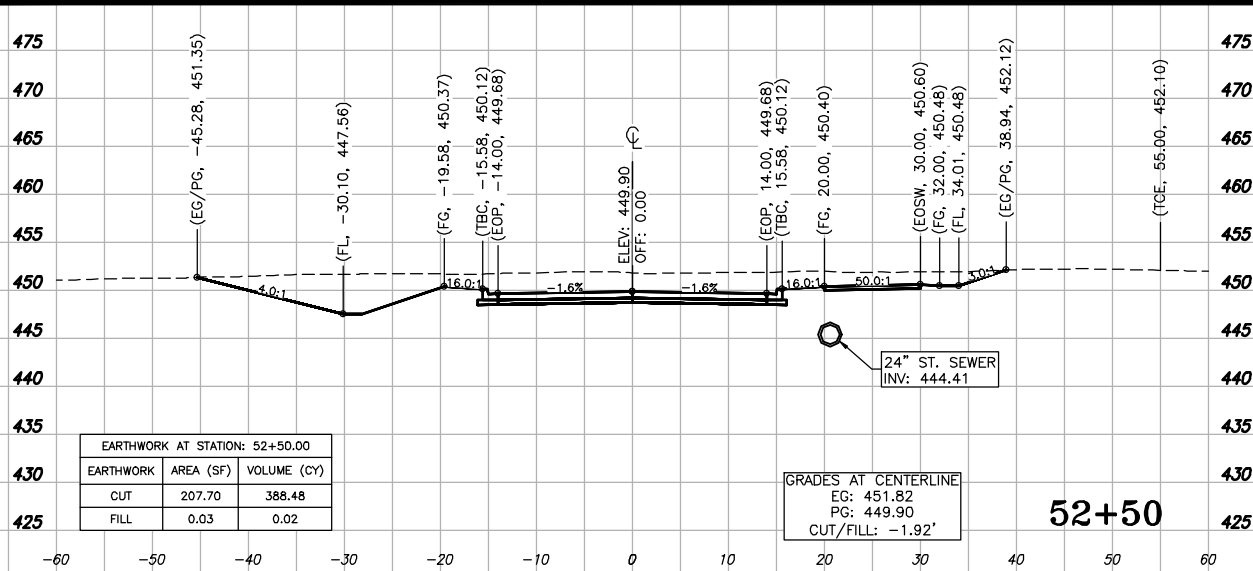
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	35	39
ILLINOIS		RITTER ROAD PHASE II		

CONTRACT NO. 99284

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ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 9719	06-00054-00-FP	WILLIAMSON	39	39
ILLINOIS		RITTER ROAD PHASE II		
CONTRACT NO. 99284				

