

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	1
		ILLINOIS	CONTRACT NO. 78718	

FOR INDEX OF SHEETS, SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-7

**TRAFFIC DATA**

ROADWAY CLASSIFICATION: MINOR ARTERIAL  
DESIGN SPEED = 55 MPH  
CURRENT ADT (2017) = 1,900  
DESIGN YEAR ADT (2044) = 2,490  
SU = 6.8%  
MU = 7.9%

**TOWNSHIPS**

COUNTY UNIT ROAD DISTRICT 01

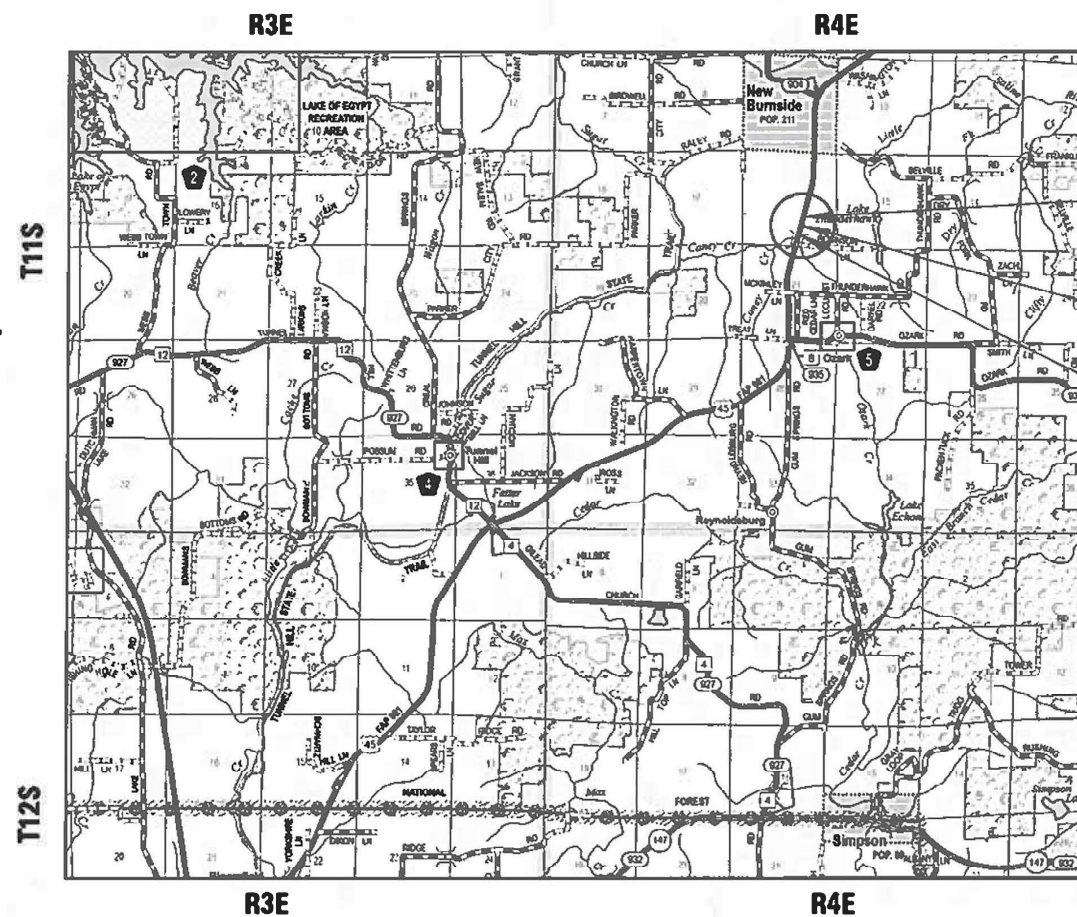
**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 881 (US ROUTE 45)  
SECTION 35(B-3)  
PROJECT HBFP-5JTT(099)  
STRUCTURE REPLACEMENT  
JOHNSON COUNTY

C-99-048-19



COORDINATE SYSTEM : STATE PLANE ZONE - ILLINOIS EAST  
POSTED SPEED : 55 MPH



BEGIN IMPROVEMENTS  
STA. 1036+45  
(US ROUTE 45)

EXISTING SN 044-2007 PROPOSED SN 044-2013  
☞ STRUCTURE STA 1038+16.00 US RTE 45 OVER UNNAMED STREAM

END IMPROVEMENTS  
STA. 1040+00  
(US ROUTE 45)



SIGNATURE: *James M. Michael*  
DATE SIGNED: 3/15/2024  
LICENSE EXPIRATION DATE: 11/30/2025

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 20 20 24  
Kirk H. Brown  
REGION FIVE ENGINEER

May 10, 2024 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

PROJECT ENGINEER: EHREN KIRBY, P.E.  
PROJECT DESIGNER: CMT

CONTRACT NO. 78718

GROSS LENGTH = 355.00 FT. = 0.067 MILE  
NET LENGTH = 355.00 FT. = 0.067 MILE

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



**INDEX OF SHEETS**

1	COVER
2	SIGNATURE
3	GENERAL NOTES
4 - 7	SUMMARY OF QUANTITIES
8 - 9	TYPICAL SECTIONS
10 - 11	SCHEDULES OF QUANTITIES
12	ALIGNMENT, TIES, AND BENCHMARKS
13	PLAN AND PROFILES
14 - 24	MAINTENANCE OF TRAFFIC - STAGE 1
25 - 35	MAINTENANCE OF TRAFFIC - STAGE 2
36	PAVEMENT MARKING PLANS
37	EROSION CONTROL PLANS
38	REMOVAL PLANS
39 - 44	STRUCTURE PLANS - S.N. 044-2013
45 - 46	EXISTING STRUCTURE PLANS
47 - 49	CONSTRUCTION DETAILS
50 - 58	CROSS SECTIONS

**GENERAL NOTES**

- 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.
RIPRAP	1.50 TONS/CU. YD.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR THE PCC PAVEMENT.
- AT ALL LOCATIONS WHERE THE PROPOSED CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAYMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED PCC PAVEMENT AT 300 FT INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

**COMMITMENTS**

- TREES THREE (3) INCHES IN DIAMETER AT BREST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.

**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
515001-04	NAME PLATE FOR BRIDGES
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS
701321-18	LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

REV. - MS

MODEL: General Notes (Sheet)  
 FILE NAME: E:\DOT\22066510-00\W0\_04\DrawRoadway\CADD\_Sheets\0971718\_sht-gennotes.dgn

USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)  
GENERAL NOTES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	3
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
F.A.P. 881 - JOHNSON COUNTY	
FUNDING: 80% FEDERAL, 20% STATE	
ROADWAY	BOX CULVERT
0004	0010
RURAL	S.N. 044-2007

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BOX CULVERT
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	41	41	
20200100	EARTH EXCAVATION	CU YD	161	161	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	39	39	
20300100	CHANNEL EXCAVATION	CU YD	188	188	
20400800	FURNISHED EXCAVATION	CU YD	137	137	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	460		460
25000210	SEEDING, CLASS 2A	ACRE	0.24	0.24	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	21.5	21.5	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	21.5	21.5	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	21.5	21.5	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5	0.5	
25100115	MULCH, METHOD 2	ACRE	0.24	0.24	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	23.7	23.7	
28000400	PERIMETER EROSION BARRIER	FOOT	455	455	
28100109	STONE RIPRAP, CLASS A5	SQ YD	184		184
28200200	FILTER FABRIC	SQ YD	184		184

REV. - MS

MODEL: 500-3 (Sheet)  
FILE NAME: E:\DOT\2206610-00\WO\_04\DrawRoadway\CADD\_Sheets\0971718-shc-2024.dgn

USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)  
SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 4
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
F.A.P. 881 - JOHNSON COUNTY	
FUNDING: 80% FEDERAL, 20% STATE	
ROADWAY	BOX CULVERT
0004	0010
RURAL	S.N. 044-2007

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BOX CULVERT
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	494	494	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	152	152	
44000100	PAVEMENT REMOVAL	SQ YD	152	152	
44004250	PAVED SHOULDER REMOVAL	SQ YD	278	278	
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	571	571	
48301000	PROTECTIVE COAT	SQ YD	723	723	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	104		104
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	209		209
50800105	REINFORCEMENT BARS	POUND	33,500		33,500
50800515	BAR SPLICERS	EACH	125		125
51500100	NAME PLATES	EACH	1		1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	167		167
54003000	CONCRETE BOX CULVERTS	CU YD	226.6		226.6

MODEL: 500-2 (Sheet)  
 FILE NAME: E:\DOT\22006610-00\WO\_04\DrawRoadway\CADD\_Sheets\0971718-shc-2024.dgn

REV. - MS

USER NAME = Blake Young	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667 ' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/25/2024	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)  
SUMMARY OF QUANTITIES**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 5
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
F.A.P. 881 - JOHNSON COUNTY	
FUNDING: 80% FEDERAL, 20% STATE	
ROADWAY	BOX CULVERT
0004	0010
RURAL	S.N. 044-2007

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BOX CULVERT
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	206		206
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6	6	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	42	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	120	120	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	40	40	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	1,758	1,758	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	512.5	512.5	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	108	108	

REV. - MS

MODEL: 500-1 (Sheet)  
FILE NAME: E:\DOT\22066610-00\WO\_04\DrawRoadway\CADD\_Sheets\0971718-shc-2024.dgn

USER NAME = Blake Young	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667 ' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/25/2024	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)  
SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 6
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
F.A.P. 881 - JOHNSON COUNTY	
FUNDING: 80% FEDERAL, 20% STATE	
ROADWAY	BOX CULVERT
0004	0010
RURAL	S.N. 044-2007

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BOX CULVERT
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	512.5	512.5	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,758	1758	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	16	16	
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1,172	1172	
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	206		206
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	10	10	
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	10	10	
∅ Z0076600	TRAINEES	HOUR	500	500	
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	

\* SPECIALTY ITEM  
∅ 0042

REV. - MS

MODEL: 500 (Sheet)  
FILE NAME: E:\DOT\2206610-00\WO\_04\DrawRoadway\CADD\_Sheets\0971718-shc-004.dgn

USER NAME = Blake Young	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667 ' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/25/2024	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)  
SUMMARY OF QUANTITIES**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

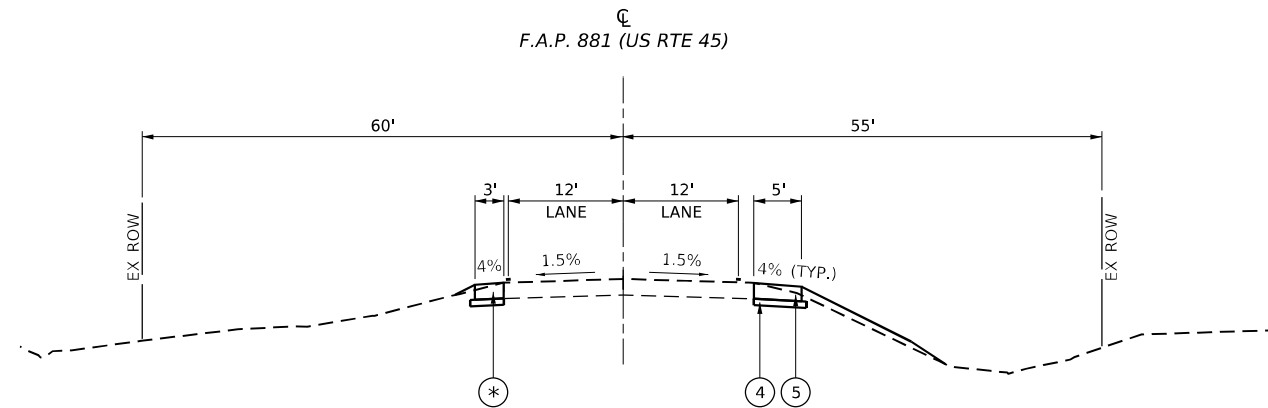
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	7
CONTRACT NO. 78718			ILLINOIS FED. AID PROJECT	





### TYPICAL SECTION LEGEND

- ① EXISTING BITUMINOUS SURFACE COURSE, 1½"
- ② EXISTING BITUMINOUS BINDER COURSE, 5½"
- ③ PROPOSED PCC PAVEMENT, 10"
- ④ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ⑤ PROPOSED PCC SHOULDER, 10"



### PROPOSED FAP ROUTE 881 (US RTE 45)

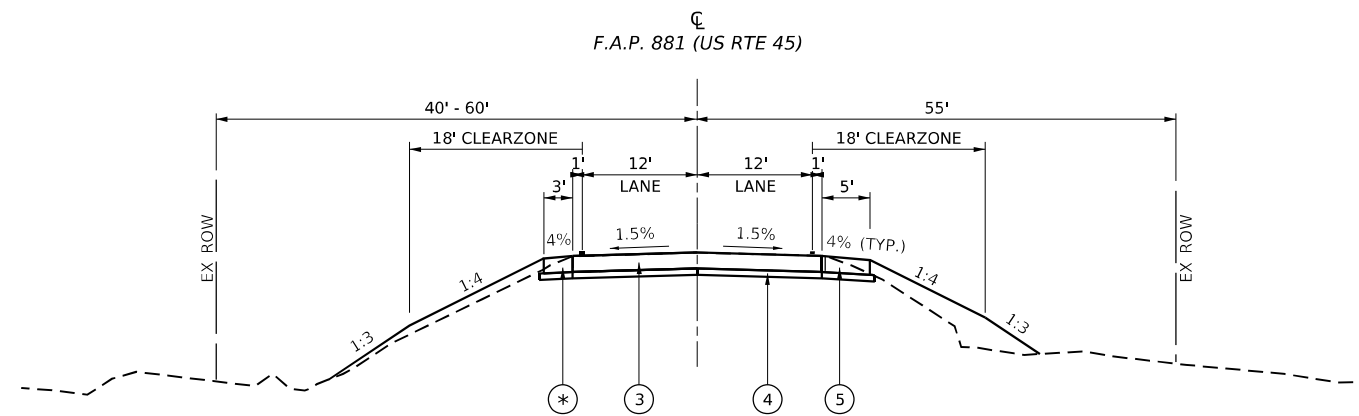
(LOOKING SOUTH)

STA 1036+45 TO STA 1037+84  
STA 1038+48 TO STA 1038+80

### NOTE

- \* PCC SHOULDER CONSTRUCTED FOR THE PURPOSE OF THE MAINTENANCE OF TRAFFIC SHALL BE SAWCUT TO A 3' WIDTH TO REMAIN IN PLACE FOR THE PURPOSE OF PERMANENT SHOULDERS.

STA. 1036+68.01 TO STA. 1037+92.00  
STA. 1038+42.00 TO 1039+54.19.



### PROPOSED FAP ROUTE 881 (US RTE 45)

(LOOKING SOUTH)

STA 1037+84 TO STA 1038+48

MODEL: Typ Propsect41 (57x41)  
FILE NAME: E:\DOT\226065\0-00\WO\_04\DrawRoadway\CADD\_Sheets\0975718-shc-typical.dgn

USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 1/ in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2024	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. 881 (US ROUTE 45)  
TYPICAL SECTION

SCALE: 1" = 10' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	9
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

### EARTHWORK SCHEDULE

LOCATION			EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	CHANNEL EXCAVATION
							EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
STA.	TO	STA.	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
1036+45.00	TO	1038+00.00	91	25%	68	66	0	2	-2	0
1038+00.00	TO	1039+76.66	70	25%	53	72	19	-19	19	0
S.N. 044-2013*						120*	120		120*	188
<b>TOTALS</b>			<b>161</b>						<b>137</b>	<b>188</b>

\*EARTH PLUG AT CULVERT ENDS (SEE GRANULAR CULVERT BACKFILL DETAIL ON SHEET 47)

### TREE REMOVAL SCHEDULE

LOCATION		TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STA.	OFFSET	UNIT	UNIT
1037+90	34' LT	13	
1037+93	46' LT	10	
1038+17	48' LT		21
1038+36	52' LT	10	
1038+40	34' LT	8	
1038+40	34' LT		18
<b>TOTAL</b>		<b>41</b>	<b>39</b>

### MAINTENANCE OF TRAFFIC SCHEDULE

STATION			TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATOR, RELOCATE (FULLY-REDIRECTIVE, NARROW), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C
STA.	TO	STA.	FOOT	FOOT	EACH	EACH	EACH	EACH
<b>STAGE 1</b>								
1036+67.26	TO	1038+00.00	228.5		27	2		4
1038+00.00	TO	1039+66.74	284.0		27	2		4
<b>STAGE 2</b>								
1036+79.85	TO	1038+00.00		226.1	27		2	4
1038+00.00	TO	1039+54.15		286.4	27		2	4
<b>TOTAL</b>			<b>512.5</b>	<b>512.5</b>	<b>108</b>	<b>4</b>	<b>4</b>	<b>16</b>

### EROSION CONTROL SCHEDULE

LOCATION				TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER
STA.	TO	STA.		POUND	FOOT
1036+45.00	TO	1038+00.00	LT	5.16	
1036+45.00	TO	1038+00.00	RT	8.52	156
1038+00.00	TO	1039+76.66	LT	5.52	148
1038+00.00	TO	1039+76.66	RT	4.50	152
<b>TOTAL</b>				<b>23.7</b>	<b>455</b>

MODEL: Schedule (Sheet)  
 FILE NAME: E:\DOT\2280661\04\Drawings\Roadway\CADD\_Sheets\0978718-shc-schedule.dwg

USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/6/2024	DATE -	REVISED -

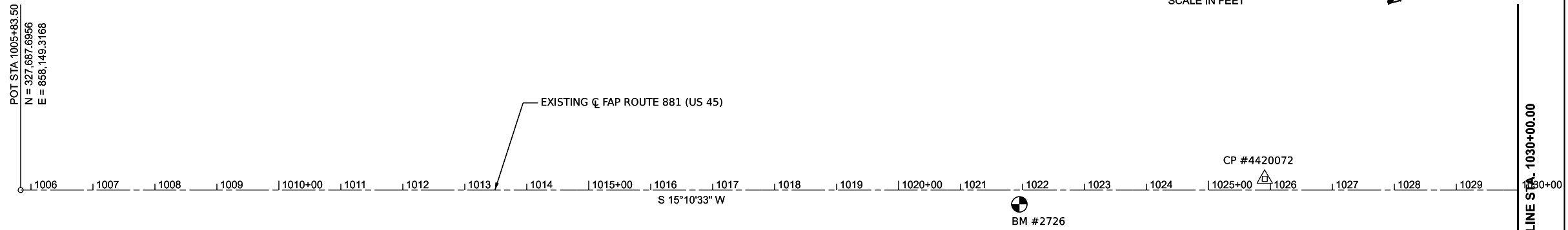
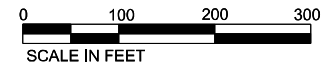
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)  
SCHEDULE OF QUANTITIES**

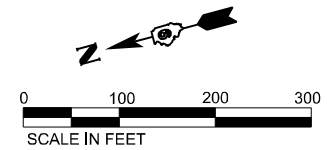
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 10
			CONTRACT NO. 78718	
		ILLINOIS FED. AID PROJECT		



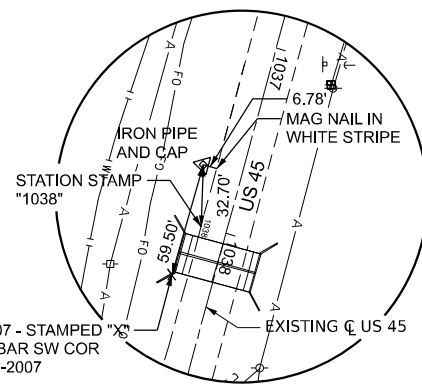
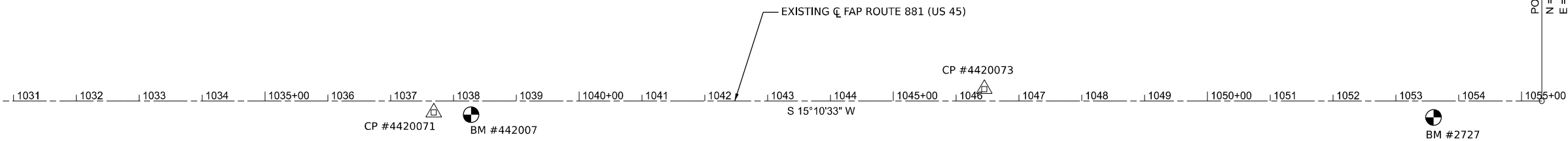


MATCHLINE STA. 1030+00.00



POT STA 1055+32.10  
N = 322,911.6707  
E = 856,853.8523

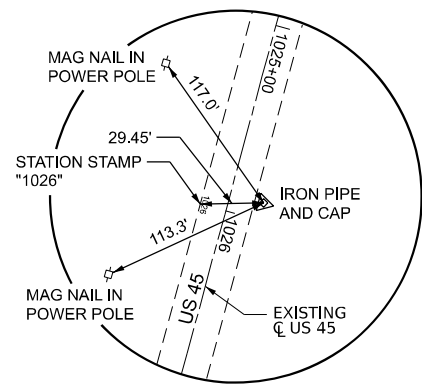
MATCHLINE STA. 1030+00.00



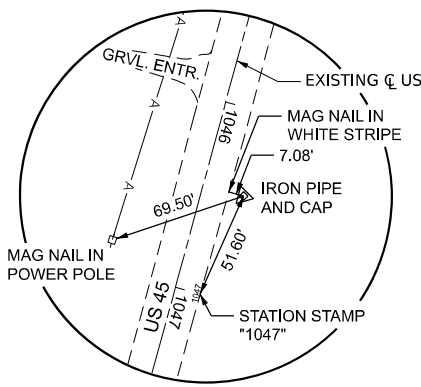
BM #442007 - STAMPED "X" IN 3/4\"/>

CP #4420071

STA. 1037+68.84, 18.16' RT  
N = 324,618.3910  
E = 857,297.9680



CP #4420072  
STA. 1025+90.88, 17.99' LT  
N = 325,745.6110  
E = 857,641.1760



CP #4420073  
STA. 1046+44.90, 19.07' LT  
N = 323,762.9360  
E = 857,104.5150

**BENCHMARKS**

BM #2726 - CHISELED "□" ON CENTER OF WESTERLY HEADWALL OF A 2'X2' CONCRETE BOX CULVERT @ STA. 1021+95±, 23' RT. OF C/L OF US 45  
ELEV: 585.031

BM #442007 - 3/4\"/>

BM #2727 - CHISELED "□" ON CENTER OF WESTERLY HEADWALL OF A 5'X2' CONCRETE BOX CULVERT @ STA. 1053+60±, 26' RT. OF C/L OF US 45  
ELEV: 581.065

MODEL: E:\C\US45\_A\0\_Plan\01\Sheet.dwg  
FILE NAME: E:\DOT\2025\1050\1030\Drawings\Roadway\CADD\_Sheets\0978718\sheet12.dgn

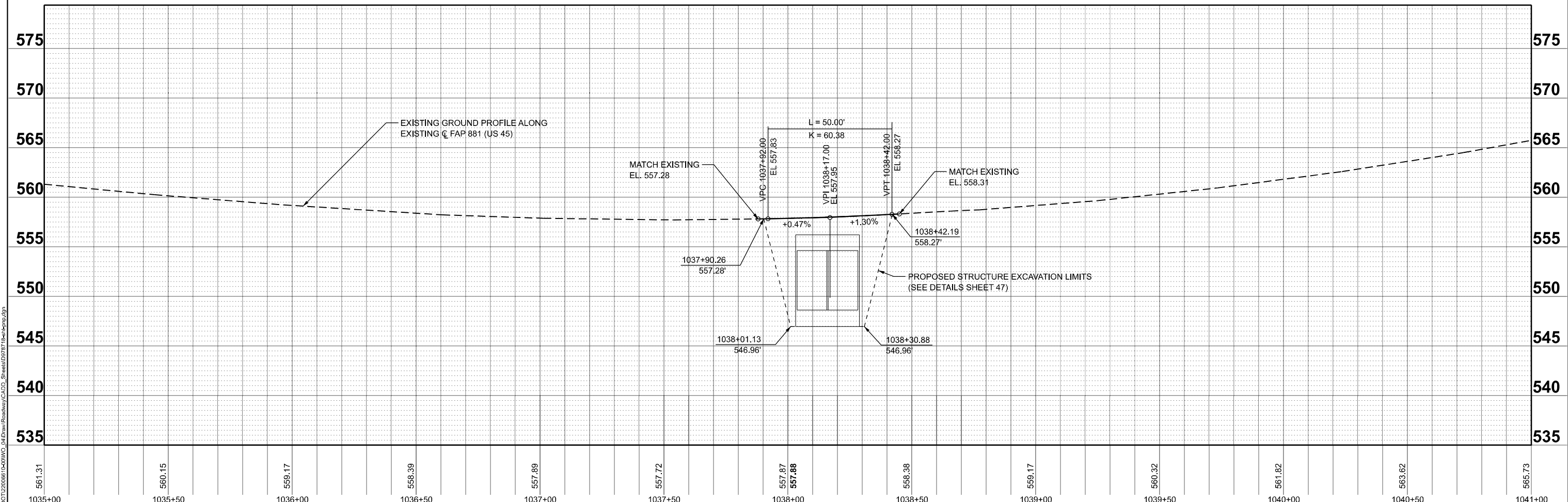
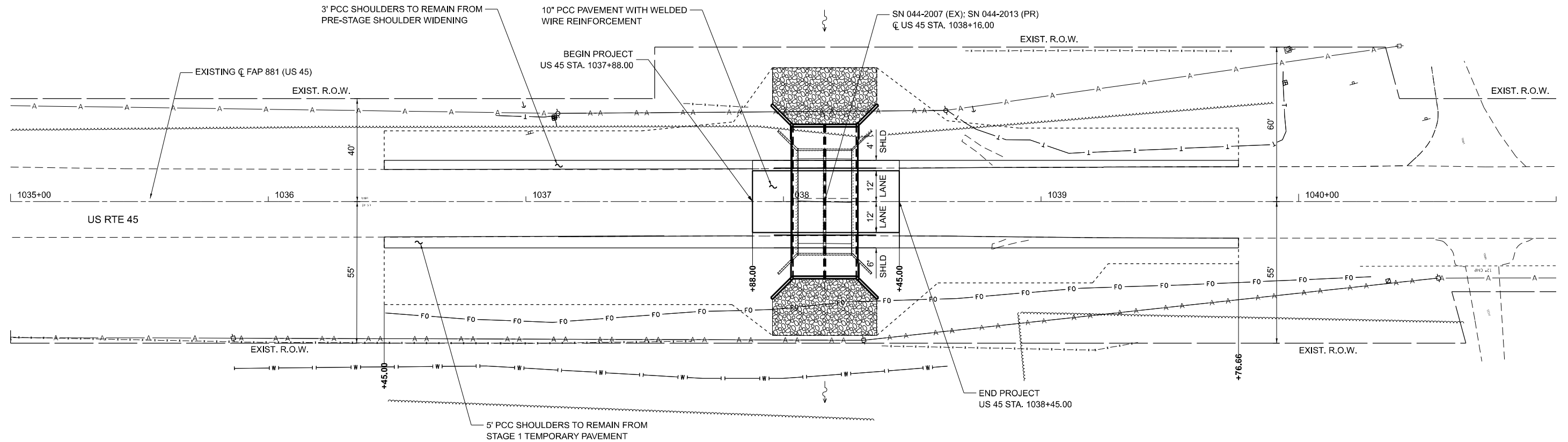
USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16660000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)  
ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: 1"=100' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	12
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL: R:\11-1514\Final\Sheet1.dwg  
 FILE NAME: L:\DOT\22828\11-1514\DOT\11-1514\Roadway\CAD\Sheet1.dwg

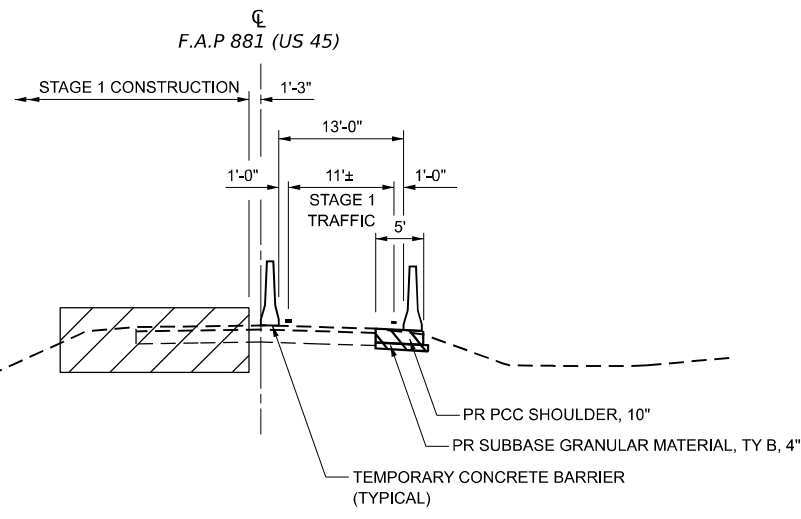
USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16660000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/8/2024	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)**  
**PLAN AND PROFILE**

SCALE: 1"=20'      SHEET 1 OF 1 SHEETS      STA.      TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 13
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



**STAGE 1 CONSTRUCTION**

(LOOKING SOUTH)

**LEGEND**

- WORK ZONE
- PRE-STAGE WIDENING

**STAGE CONSTRUCTION GENERAL NOTES**

1. ONE LANE OF TRAFFIC ON US 45 SHALL BE MAINTAINED AT ALL TIMES.
2. EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

**SUGGESTED STAGE 1 CONSTRUCTION**

PRE-PHASE

1. PLACE PCC SHOULDER, 10" (PERMANENT) TO BE USED FOR STAGE 1 TRAFFIC.

PHASE 1

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201, 701326 AND 701321.
2. PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE DETAILS.
3. INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE NORTH BOUND LANE OF ROADWAY, SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.

PHASE 2

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE SOUTHBOUND SIDE OF US 45.
2. CONSTRUCT TEMPORARY SHEET PILING AT THE NORTH AND SOUTH SIDE OF EXISTING STRUCTURE AND REMOVE THE NORTHBOUND SIDE OF EXISTING STRUCTURE.
3. CONSTRUCT THE NORTHBOUND SIDE OF CULVERT STRUCTURE, EMBANKMENT AT NORTH AND SOUTH SIDES OF PROPOSED STRUCTURE, APPROACH PAVEMENT AND FULL-DEPTH SHOULDERS.
4. CONSTRUCT SHOULDER WIDENING TO BE USED FOR STAGE 2 TRAFFIC.

**TRAFFIC CONTROL NOTES**

1. TWO PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
2. THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321.
3. REMOVAL OF THE RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
4. ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

MODEL: STG1-NOTES (1-sheet)  
 FILE NAME: I:\DOT\2200661\04\Drawings\Roadway\CADD\_Sheets\0975718-shc-stage1-TYP\_NOTES.dgn

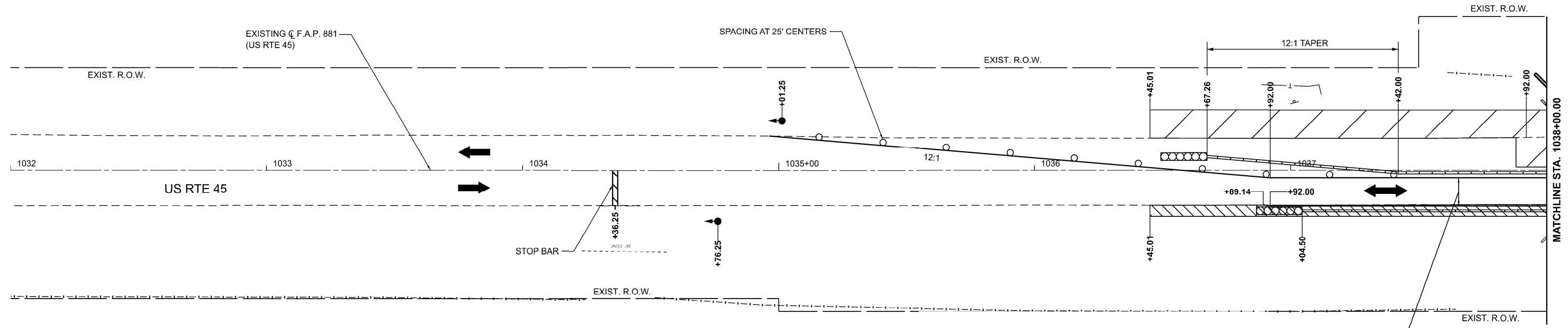
USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667 1/ in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)  
MAINTENANCE OF TRAFFIC - STAGE I**

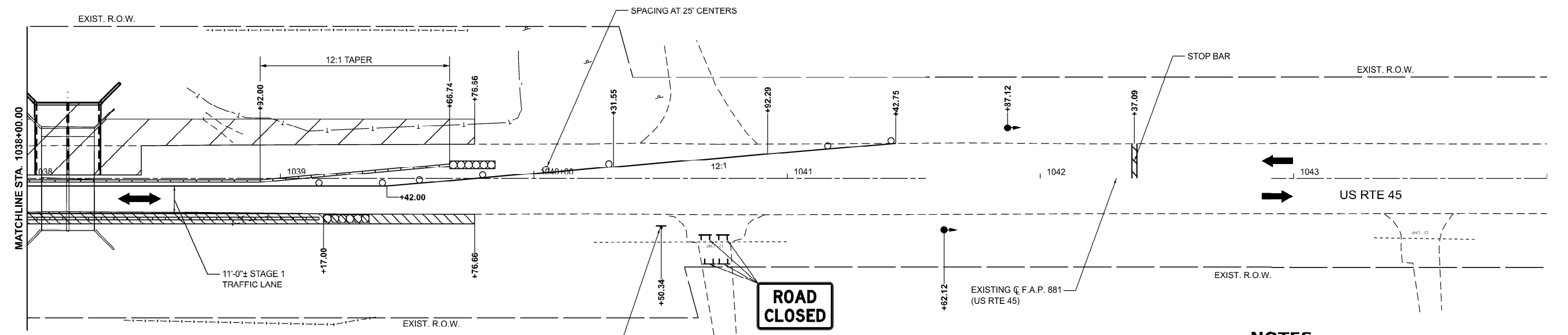
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	14
CONTRACT NO. 78718			ILLINOIS FED. AID PROJECT	



**LEGEND**

	WORK ZONE		IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
	PRE-STAGE WIDENING		TEMPORARY CONCRETE BARRIER
	EDGE DRUMS		TEMPORARY TRAFFIC SIGNAL



**NOTES**

TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.

TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS  
SEE SHEET 49

MODEL: RUDOPF.NAMES  
FILENAME: ST1E15

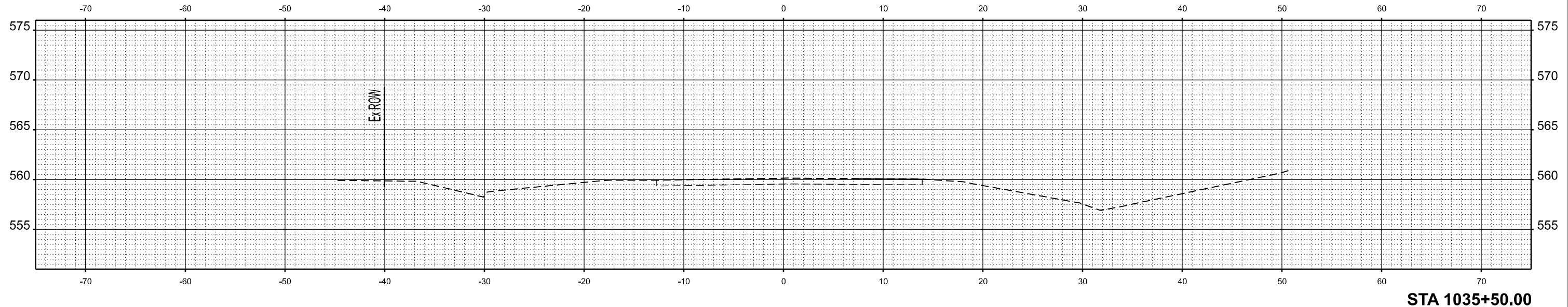
USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = \$\$SCALE\$	DRAWN -	REVISED -
PLOT DATE = \$DATES	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

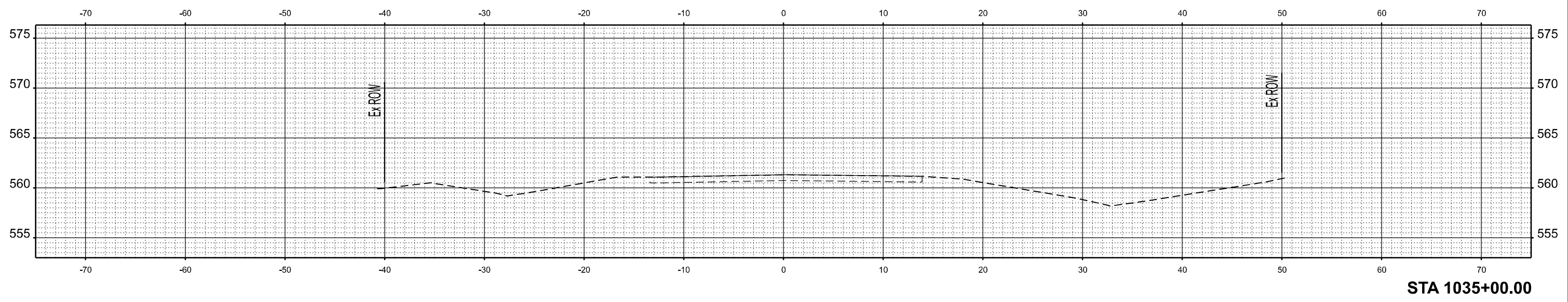
F.A.P. 881 (US ROUTE 45)  
MAINTENANCE OF TRAFFIC - STAGE I

SCALE: 1"=20'    SHEET 2 OF 2 SHEETS    STA. TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 15
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1035+50.00



STA 1035+00.00

MODEL: SHIT\_VS\_01  
 FILE NAME: I:\DOT\220681\100\HW\_04\Draw\Roadway\CADD\_Sheets\0978718\ex\stage1\_vs.dgn



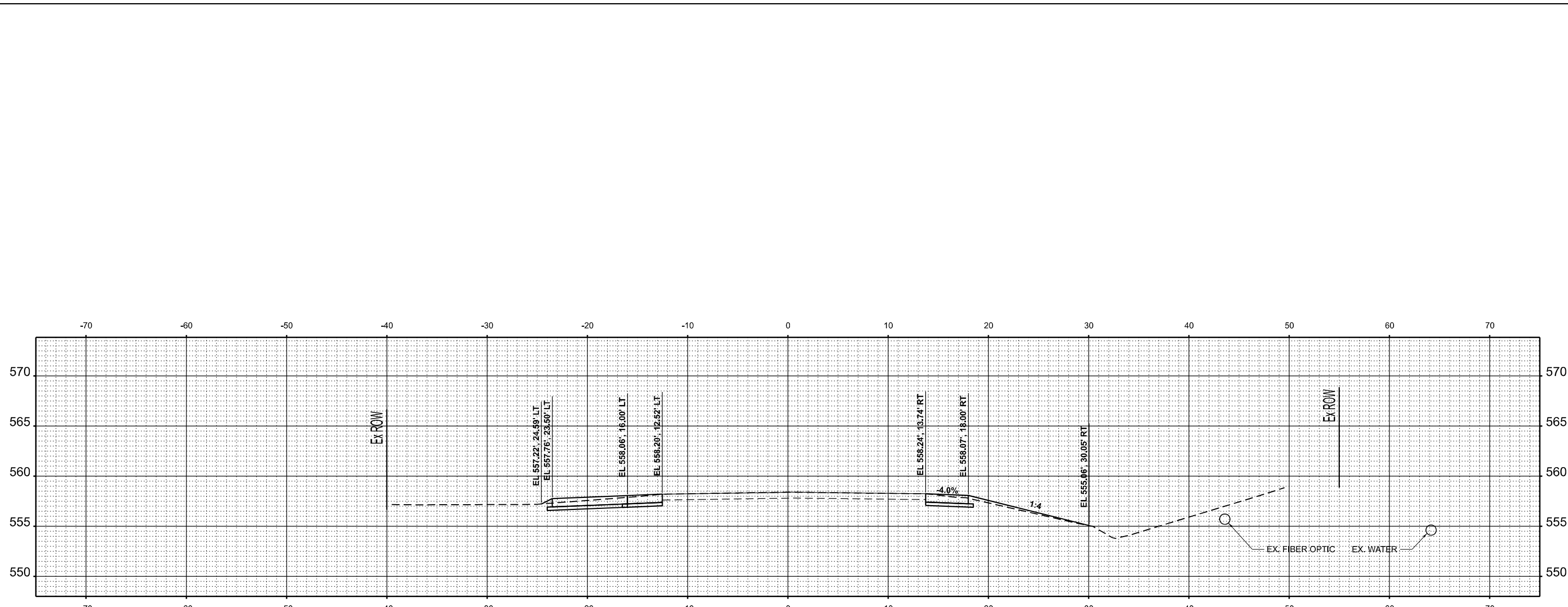
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

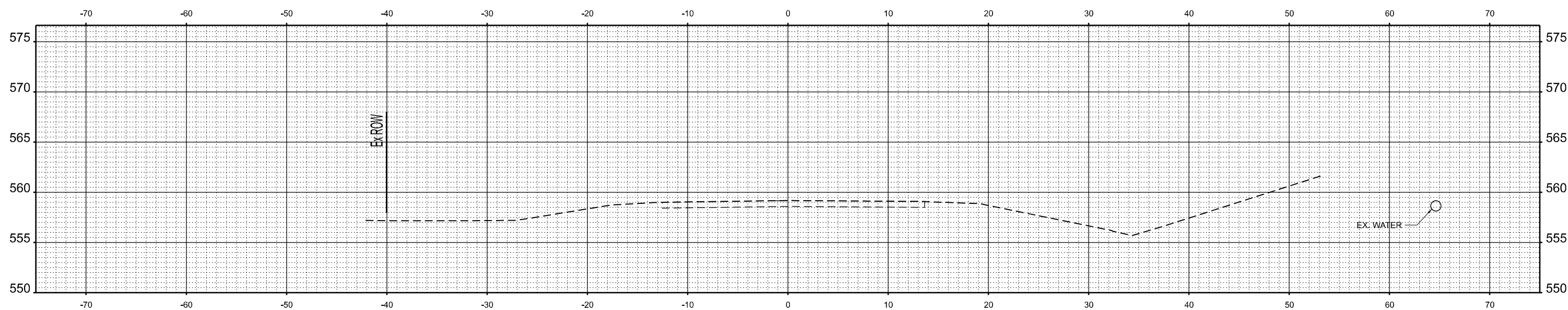
F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 16
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				





STA 1036+50.00



STA 1036+00.00

MODEL: SMT\_15\_039  
 FILE NAME: L:\DOT\2024\881\1036\1036+00.00\1036+00.00.dgn

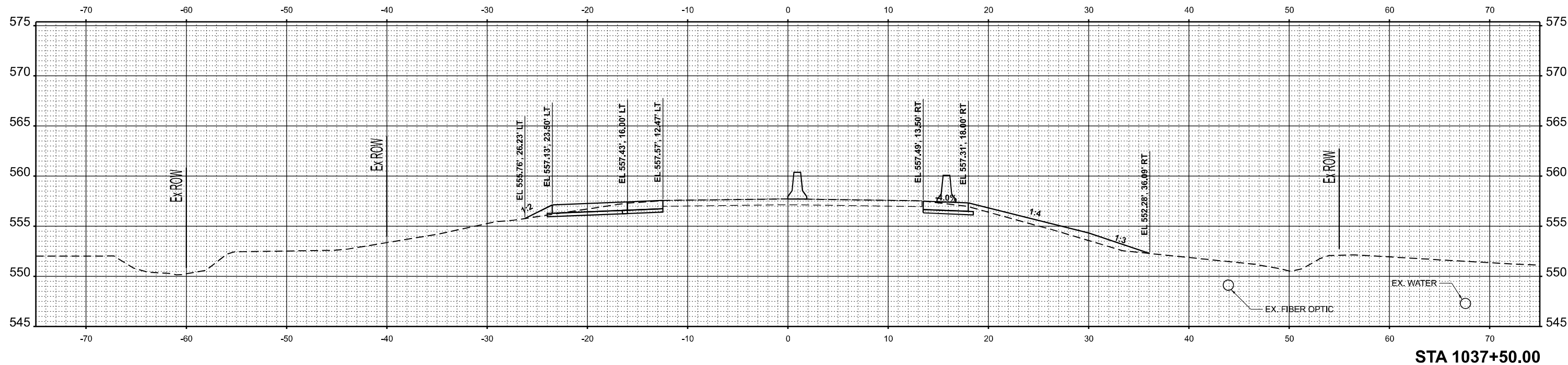


USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

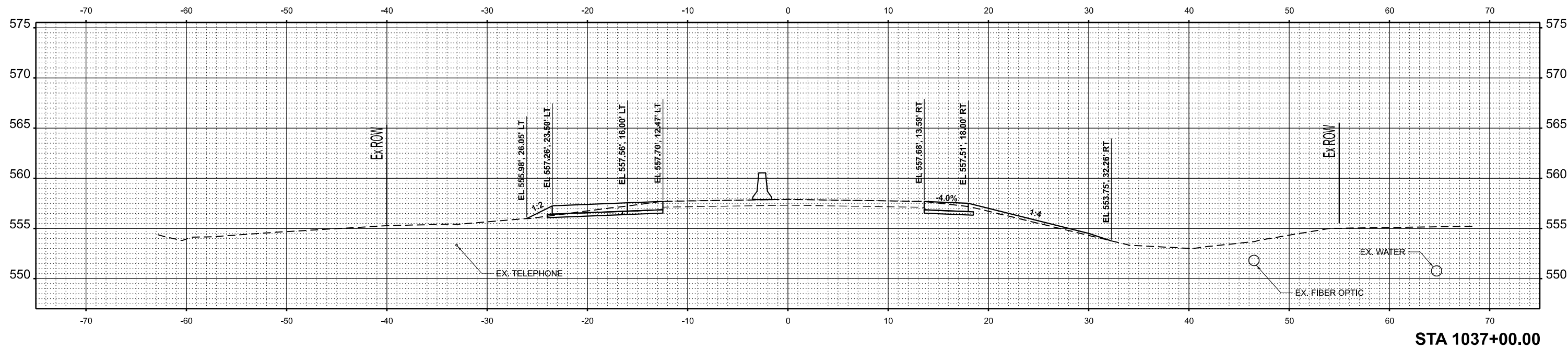
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 17
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1037+50.00



STA 1037+00.00

MODEL: SHT\_15\_033  
 FILE NAME: I:\DOT\220681\100\HW\_04\Draw\Roadway\CADD\_Sheets\0978718\cmt\stage1\_15.dgn  
 License No. 184-000613 © copyright CMT, Inc.

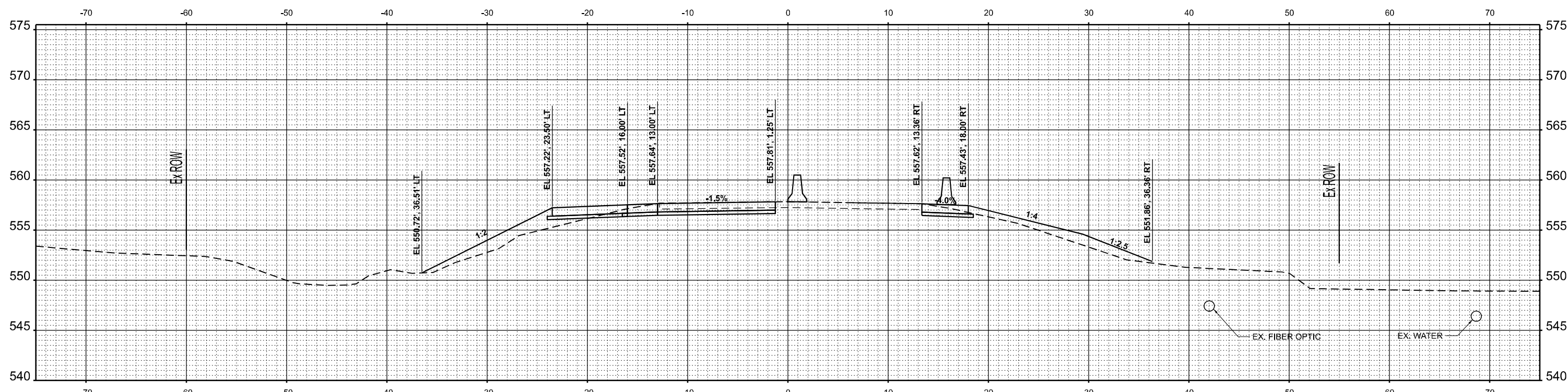
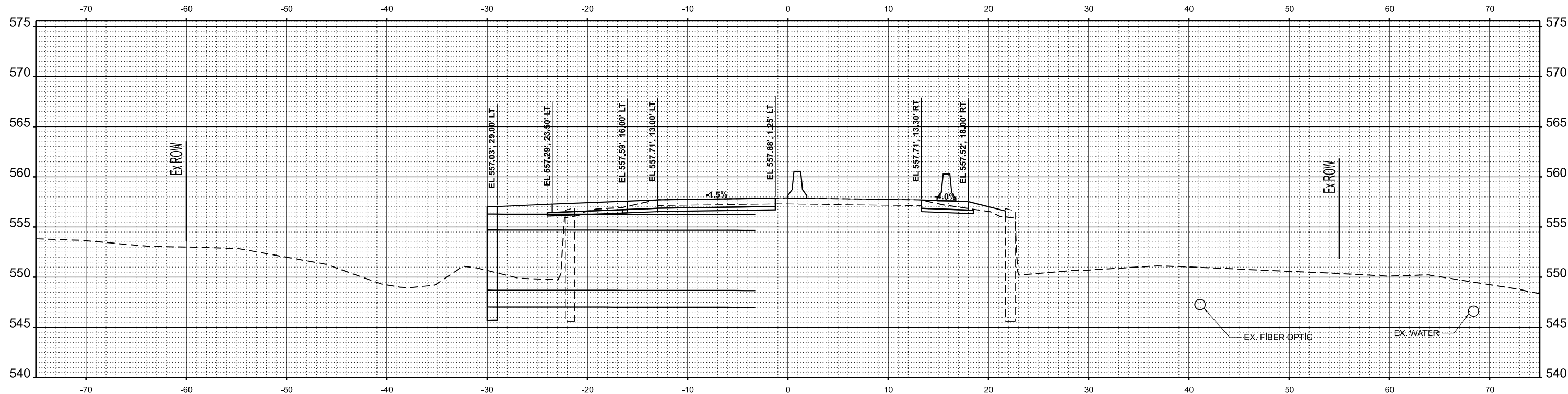


USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	REVISED -	
PLOT SCALE = 0.16660000' / in.	CHECKED - \$pnpc\$	REVISED -
PLOT DATE = 3/25/2024	DATE - \$submitdate\$	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 18
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL: S:\IT\AS\_034  
 FILE NAME: I:\DOT\2024\881\030\NO\_04\Draw\Roadway\CADD\_Sheets\0978718\cadd\stage1\_as.dgn

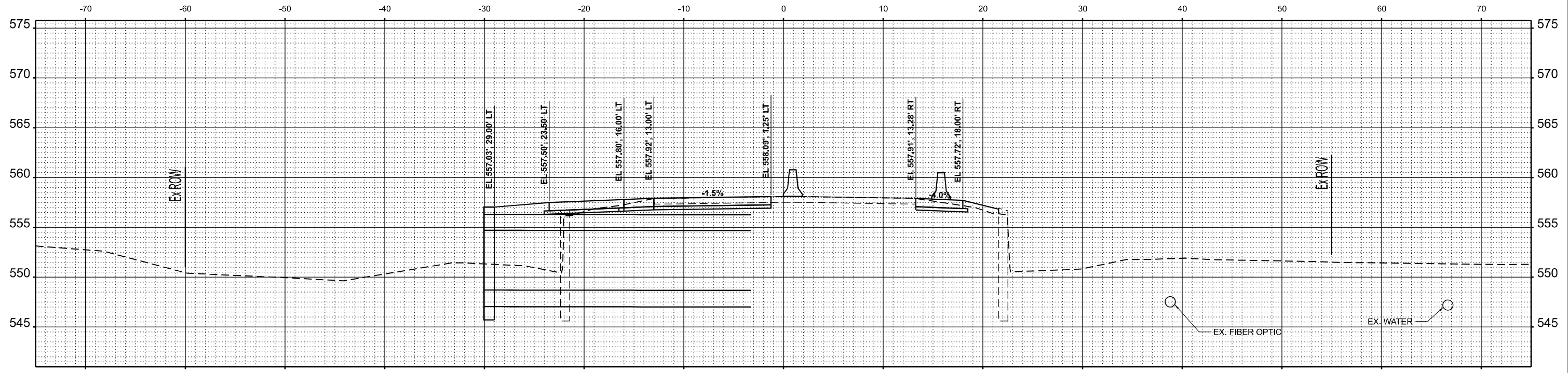


USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	REVISED -	
PLOT SCALE = 0.1666000' / in.	CHECKED - \$pnpc\$	REVISED -
PLOT DATE = 3/25/2024	DATE - \$submitdate\$	REVISED -

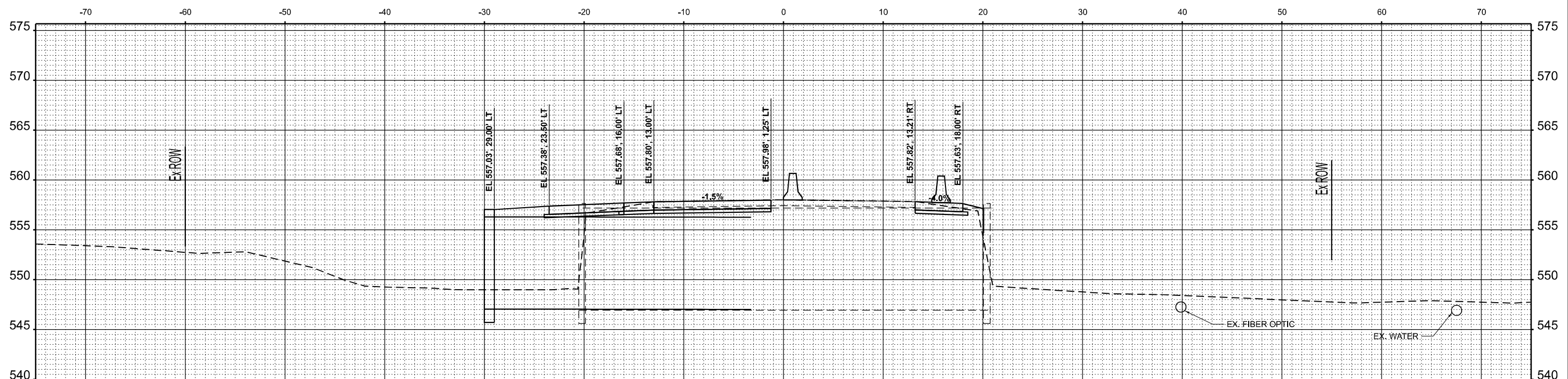
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 19
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1038+28.28



STA 1038+16.00

MODEL: SHIT - US 015  
 FILE NAME: I:\DOT\202681\202681\_01\Draw\Roadway\CADD\_Sheets\0978718\cadd\stage1\_us.dgn

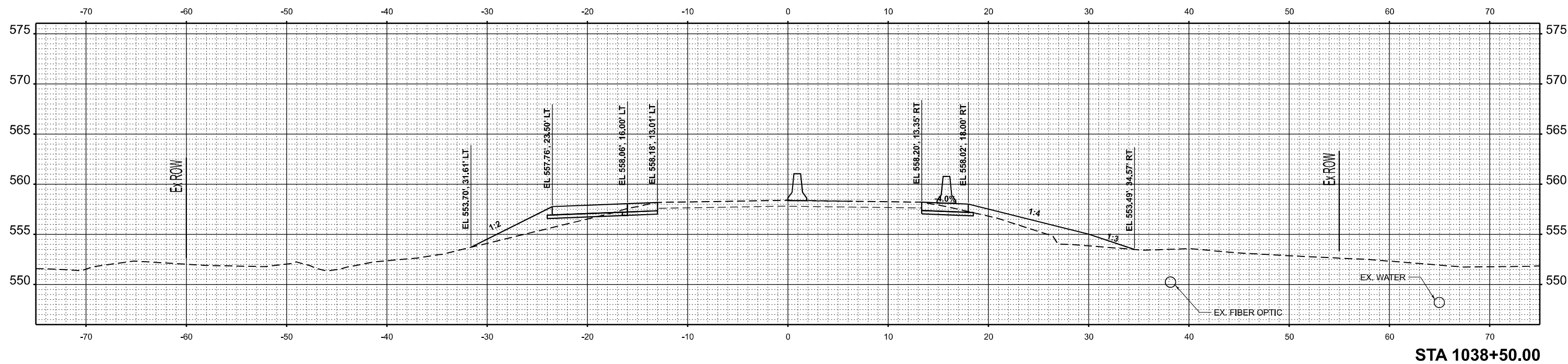


USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DRAWN - \$pnpr\$	REVISED -
PLOT DATE = 3/25/2024	CHECKED - \$pnpc\$	REVISED -
	DATE - \$submitdate\$	REVISED -

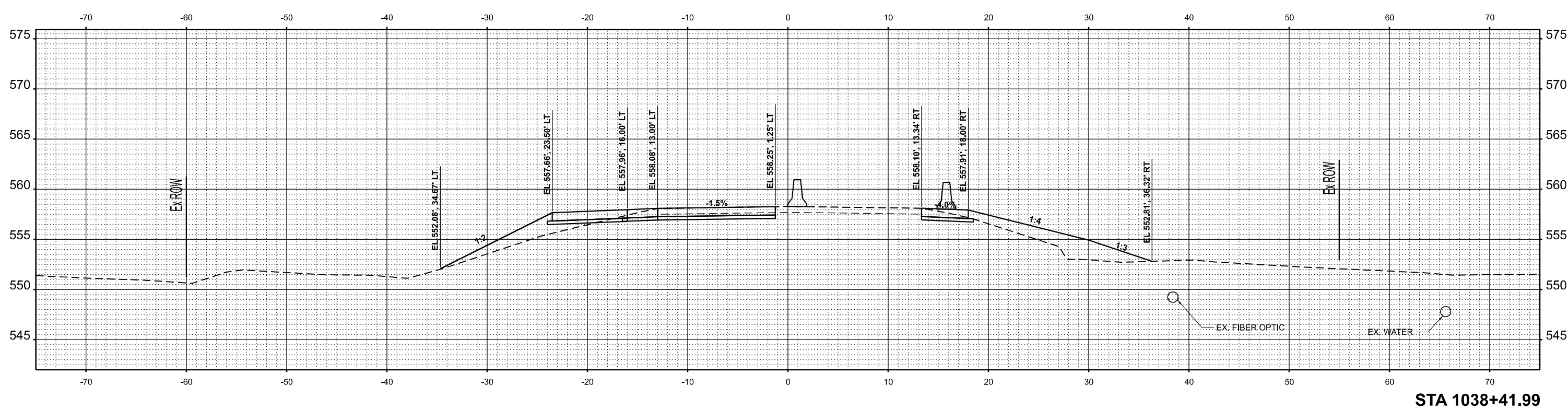
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 20
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1038+50.00



STA 1038+41.99

MODEL: SHT\_15\_018  
 FILE NAME: I:\DOT\2024\881\04\Draw\Roadway\CADD\_Sheets\0978718\cmt\stage1\_15.dgn  
 License No. 184-000613 © Copyright CMT, Inc.

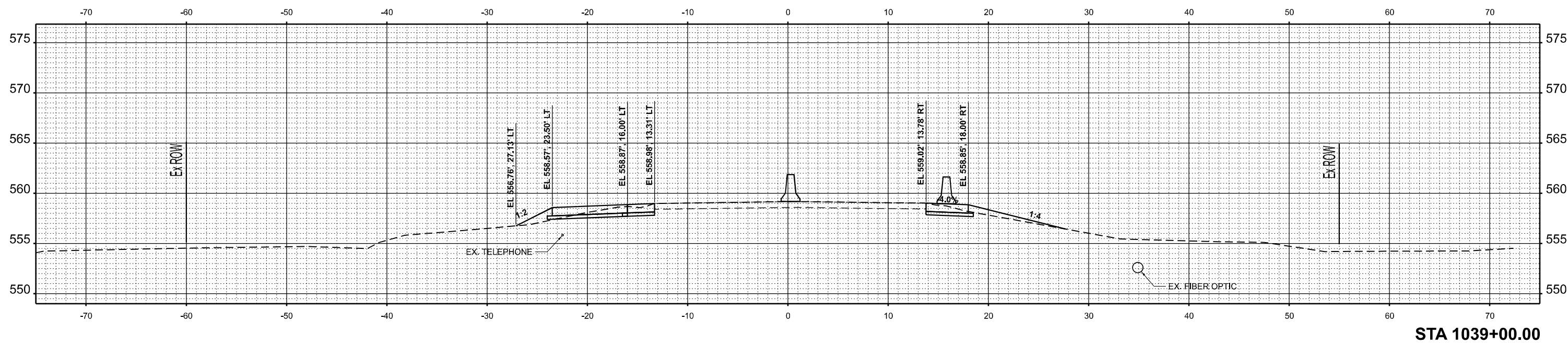
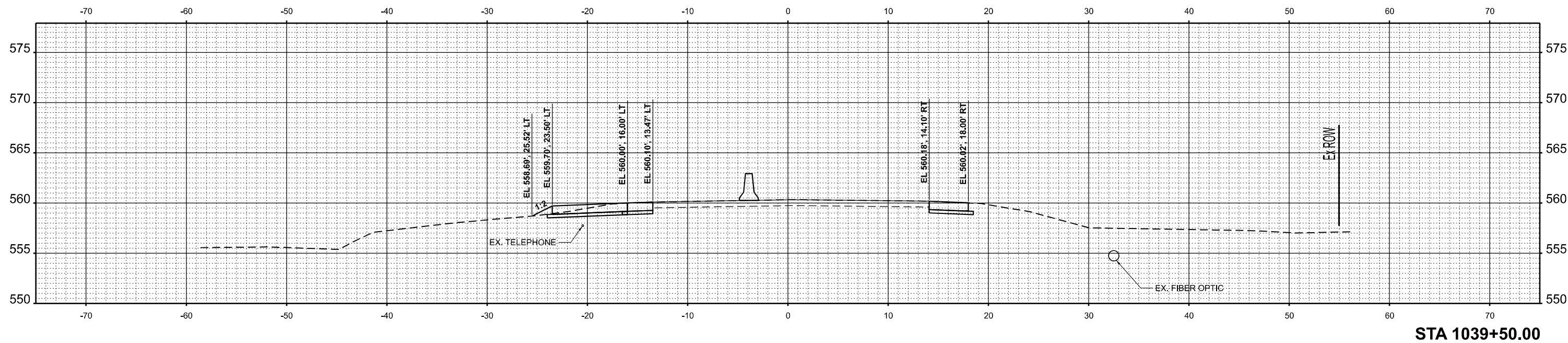


USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 21
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL: SHIT\_VS\_017  
 FILE NAME: I:\DOT\2024\81\1039\1039+00\1039+00.dgn



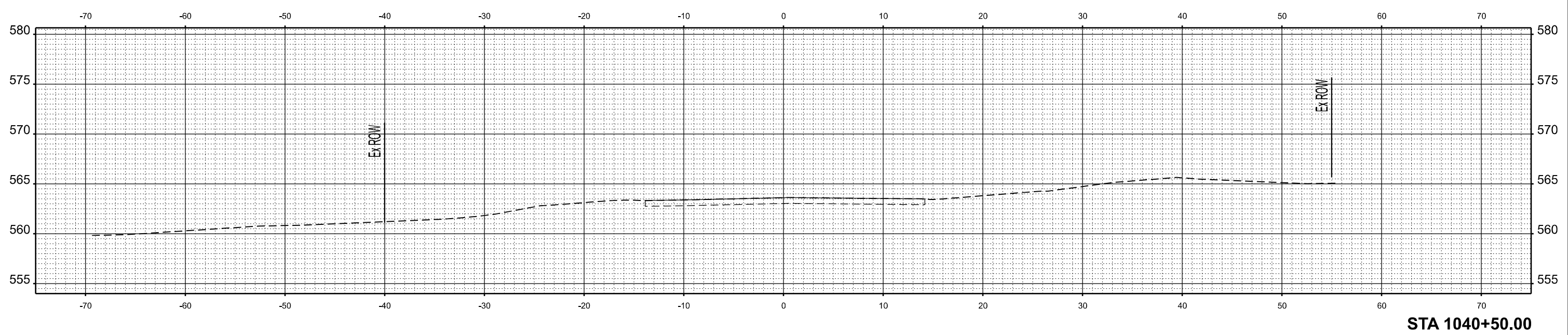
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	REVISED -	
PLOT SCALE = 0.16660000' / in.	CHECKED - \$pnpc\$	REVISED -
PLOT DATE = 3/25/2024	DATE - \$submitdate\$	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

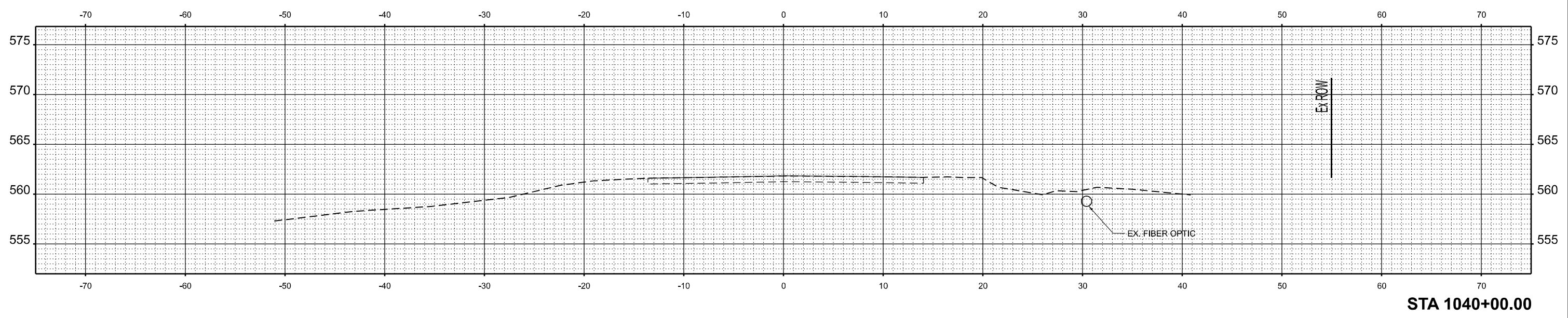
F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 22
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

MODEL: SHIT\_VS\_039  
 FILE NAME: L:\DOT\2024\81\1040\1040\_04\Draw\Roadway\CA\DD\_Sheet\1040+50.dgn



STA 1040+50.00



STA 1040+00.00



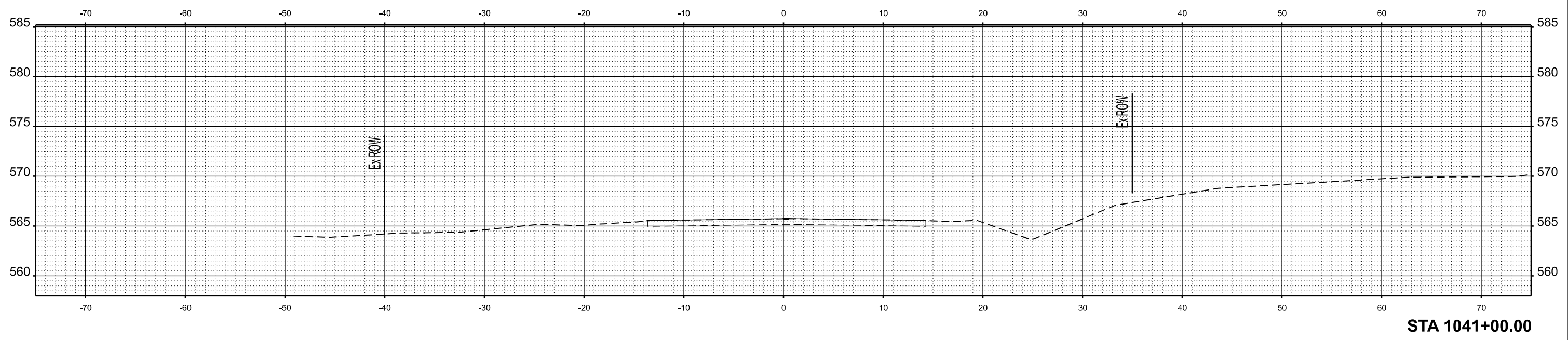
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS  
 SCALE: 1"=5'

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	23
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

MODEL: SHT\_15\_039  
 FILE NAME: L:\DOT\2024\1041\1041\_041\Drawings\Roadway\CADD\_Sheets\DR7818-Cross-Section1\_15.dgn



USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

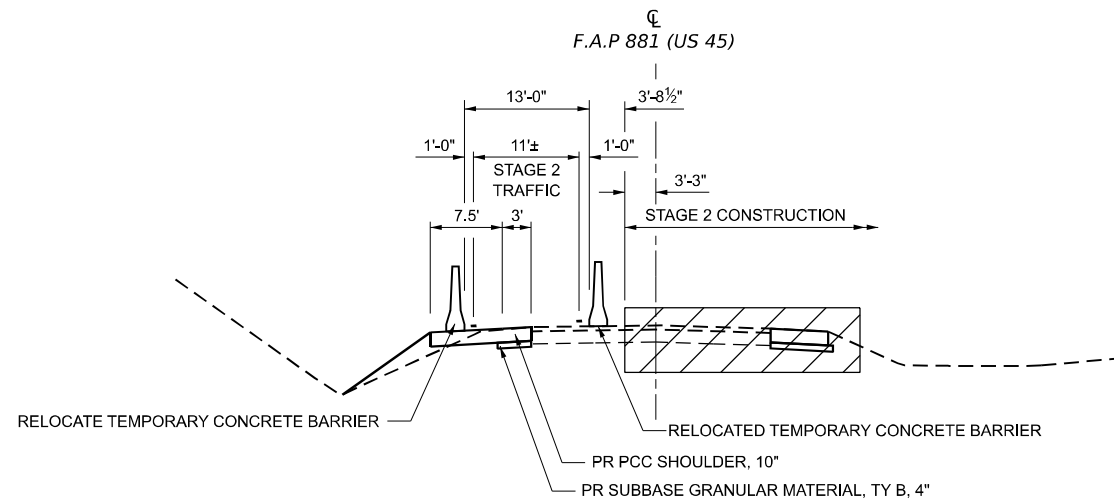
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 1 - CROSS SECTIONS

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 24
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

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





### STAGE 2 CONSTRUCTION

(LOOKING SOUTH)

LEGEND	
	WORK ZONE
	PRE-STAGE WIDENING

### STAGE CONSTRUCTION GENERAL NOTES

- ONE LANE OF TRAFFIC ON US 45 SHALL BE MAINTAINED AT ALL TIMES.
- EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

### SUGGESTED STAGE 2 CONSTRUCTION

#### PHASE 1

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201, 701326 AND 701321.
- PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE DETAILS.
- INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE SOUTH BOUND LANE OF ROADWAY, SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.

#### PHASE 2

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE NORTHBOUND SIDE OF US 45.
- CONSTRUCT TEMPORARY SHEET PILING AT THE NORTH AND SOUTH SIDE OF EXISTING STRUCTURE AND REMOVE THE SOUTHBOUND SIDE OF EXISTING STRUCTURE.
- CONSTRUCT THE SOUTHBOUND SIDE OF CULVERT STRUCTURE, EMBANKMENT AT NORTH AND SOUTH SIDES OF PROPOSED STRUCTURE, APPROACH PAVEMENT AND FULL-DEPTH SHOULDERS.

### TRAFFIC CONTROL NOTES

- TWO PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
- THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321.
- REMOVAL OF THE RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
- ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

MODEL: STG2-NOTES (15-sheet)  
 FILE NAME: L:\DOT\2200661\04\DrawRoadway\CADD\_Sheets\091718-shl-stage2-TYP\_NOTES.dgn

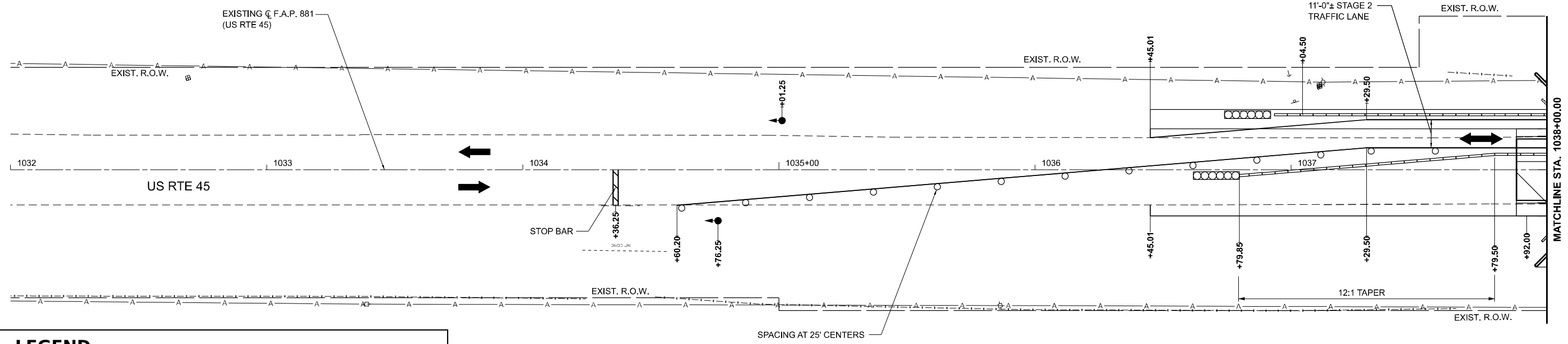
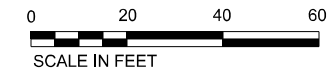
USER NAME = Blake Young	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667 1/ in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (US ROUTE 45)  
MAINTENANCE OF TRAFFIC - STAGE II

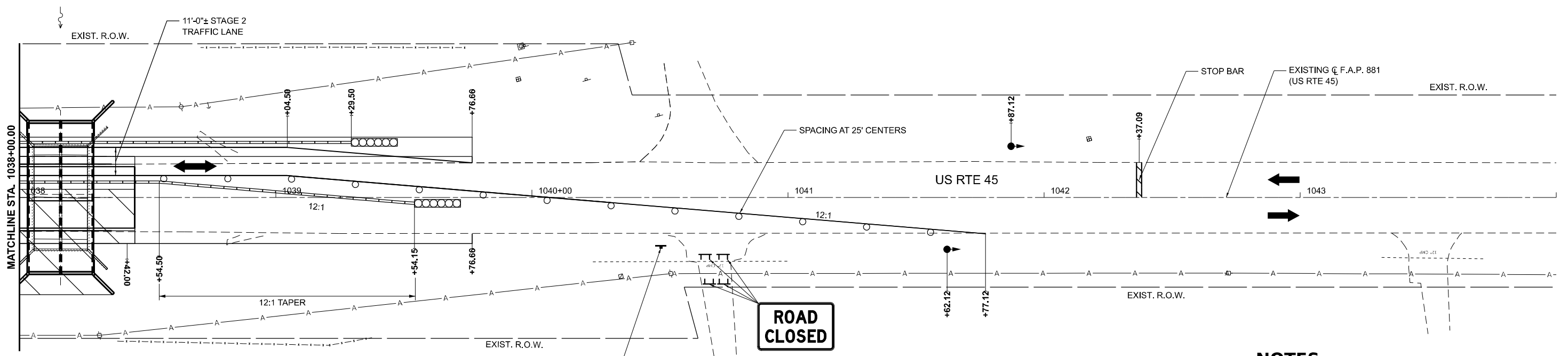
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	25
CONTRACT NO. 78718				
ILLINOIS			FED. AID PROJECT	



**LEGEND**

	WORK ZONE		EDGE DRUMS
	PRE-STAGE WIDENING		TEMPORARY TRAFFIC SIGNAL
	IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3		TEMPORARY CONCRETE BARRIER



**NOTES**

TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.

TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS TO REMAIN FROM STAGE 1 SEE SHEET 49

MODEL: Stage 2 (Sheet)  
 FILE NAME: L:\D\2226981\2020\NO\_04\Draw\Roadway\CADD\_Sheet\0978718.mxd\stage2.dgn

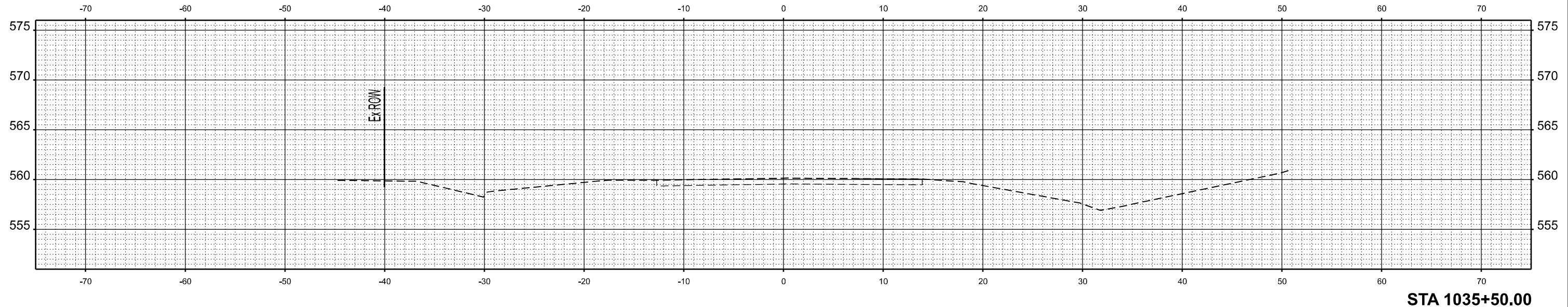
USER NAME = Blake Young	DESIGNED -	REVISED -
DRAWN -	REVISOR -	REVISION -
PLOT SCALE = 0.1666000' / in.	CHECKED -	REVISOR -
PLOT DATE = 3/25/2024	DATE -	REVISION -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

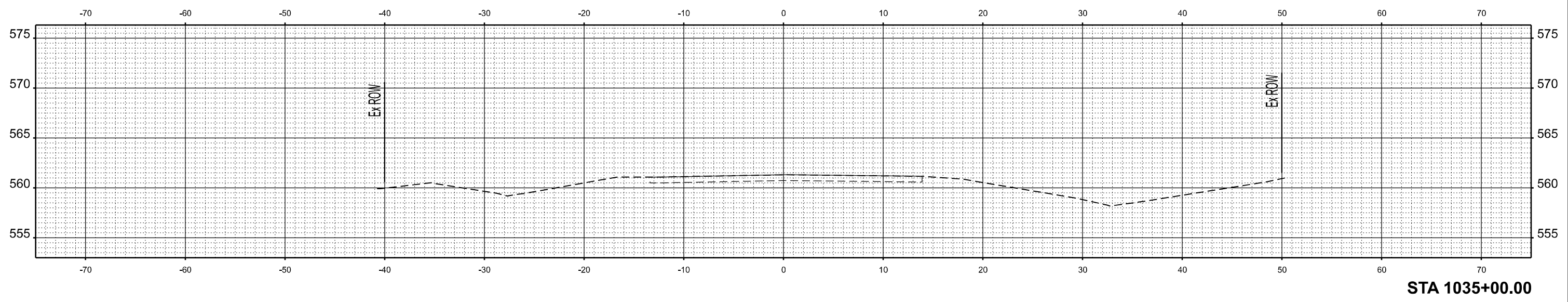
F.A.P. 881 (US ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE II  
 SCALE: 1"=20'    SHEET 2 OF 2 SHEETS    STA. TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 26
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

MODEL: SHIT - US STG2 001  
 FILE NAME: L:\D1220881\000\HW\_04\Draw\Roadway\CADD\_Sheets\0978718\ex\cross2\_50.dgn



STA 1035+50.00



STA 1035+00.00



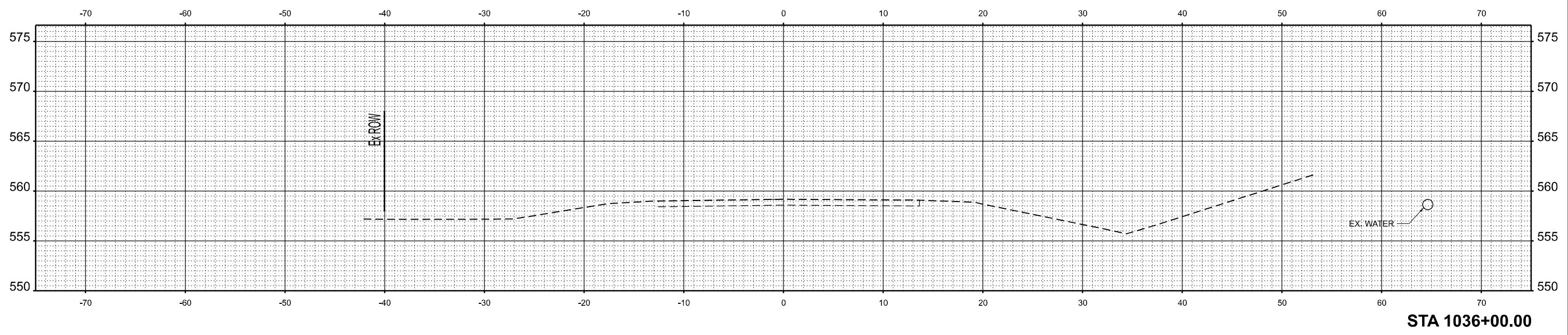
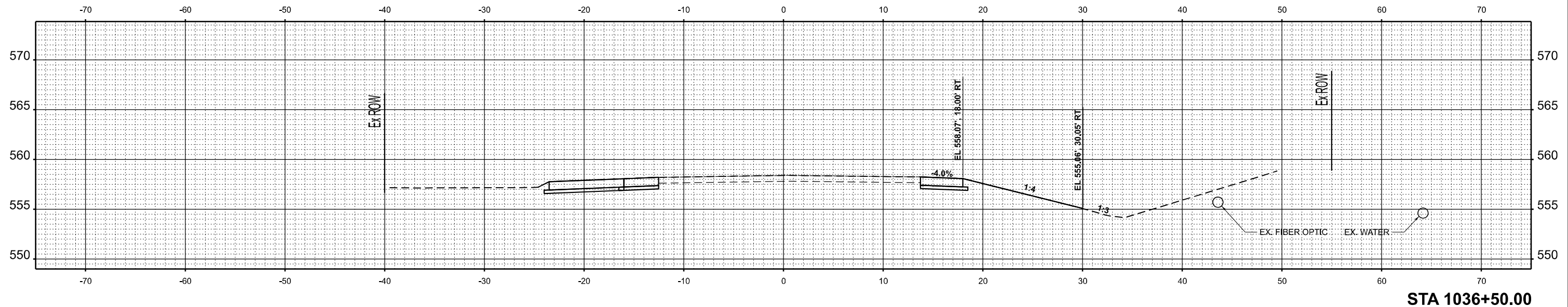
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 27
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

MODEL: S:\IT\US\881\001\Drawings\Roadway\CADD\_Sheets\0978718.mxd; 2024\_03\_25.dgn  
 FILE NAME: L:\D\1220881\001\Drawings\Roadway\CADD\_Sheets\0978718.mxd; 2024\_03\_25.dgn

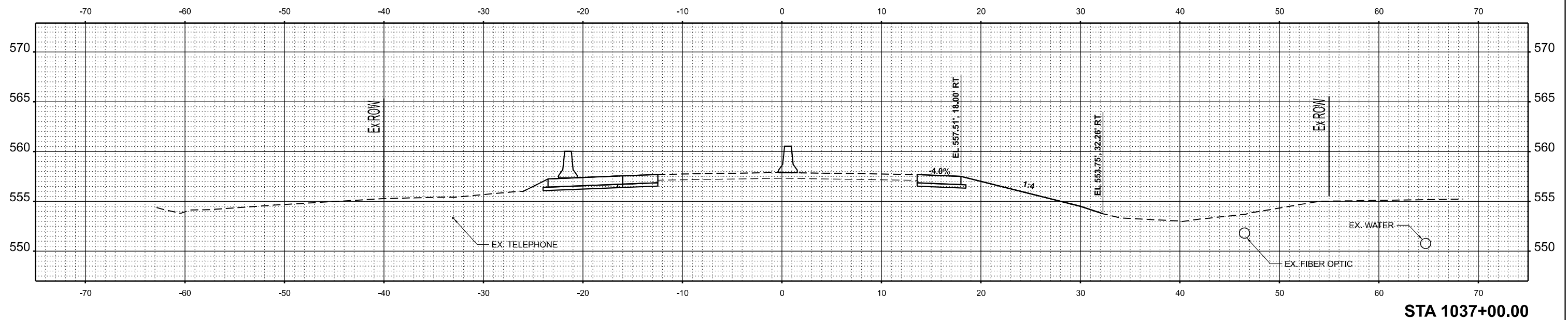
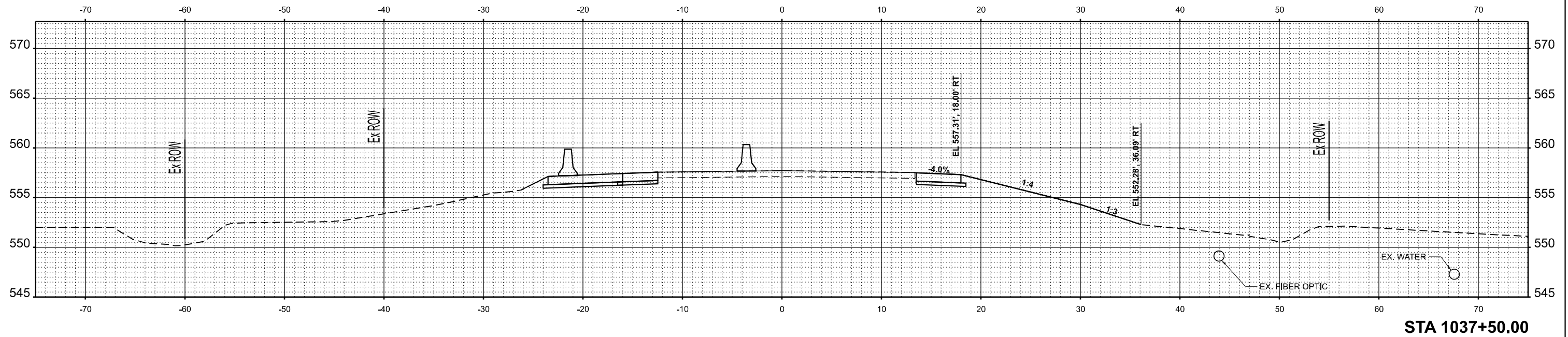


USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS  
 SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 28
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL: S:\IT\US\81803\_003  
 FILE NAME: I:\D\1220881\100\HW\_04\Draw\Roadway\CADD\_Sheets\0978718\ex\kxsta292.as.dgn



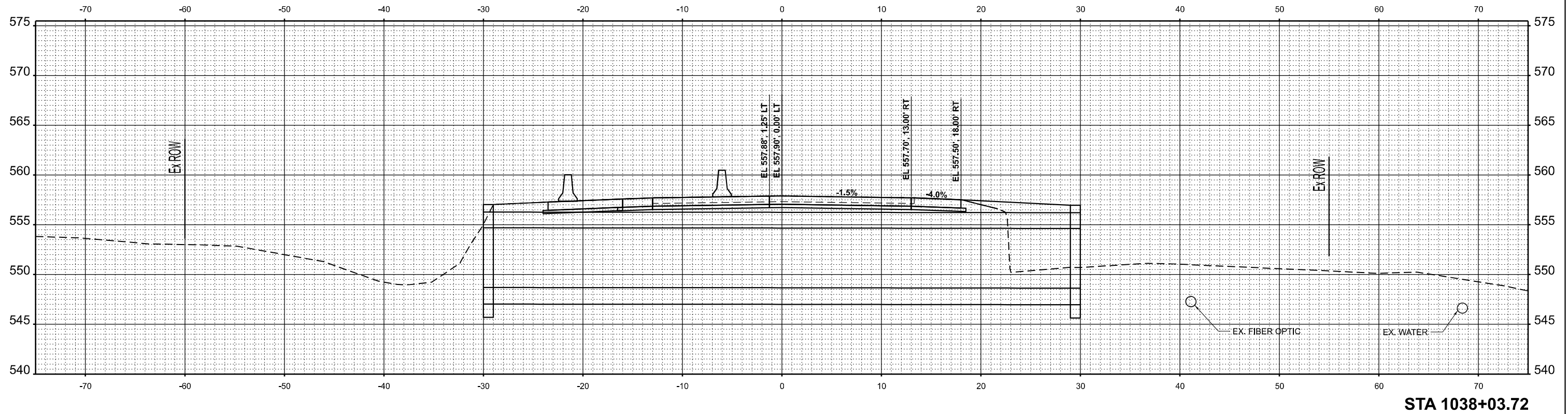
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

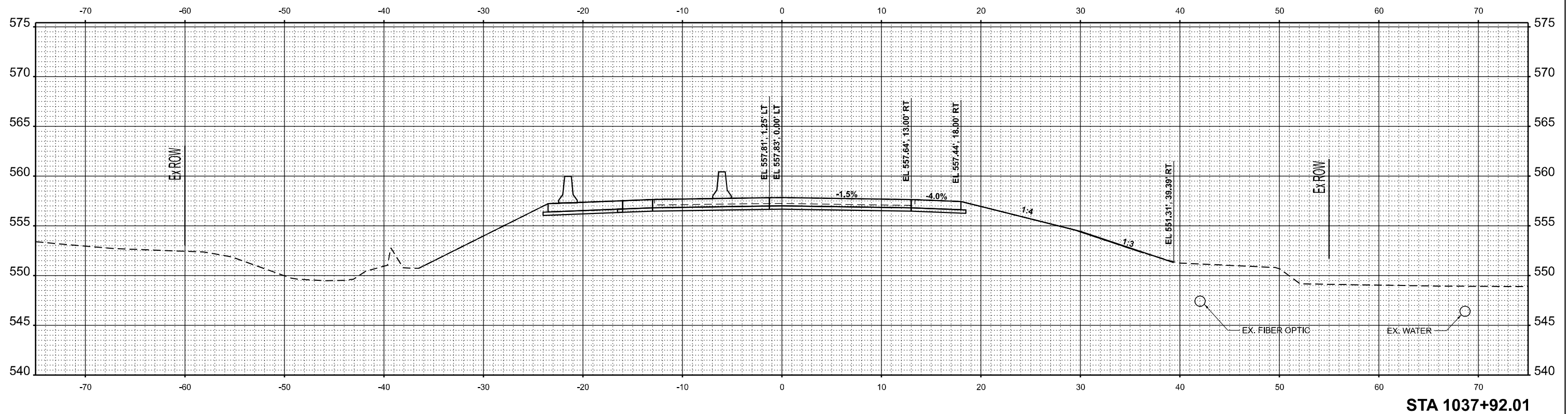
F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	29
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1038+03.72



STA 1037+92.01

MODEL: S:\IT\US\_881\041\Draw\Roadway\CADD\_Sheets\0978718.mxd; 2024\_03\_25\_10:00:00 AM; 1:1; 100%



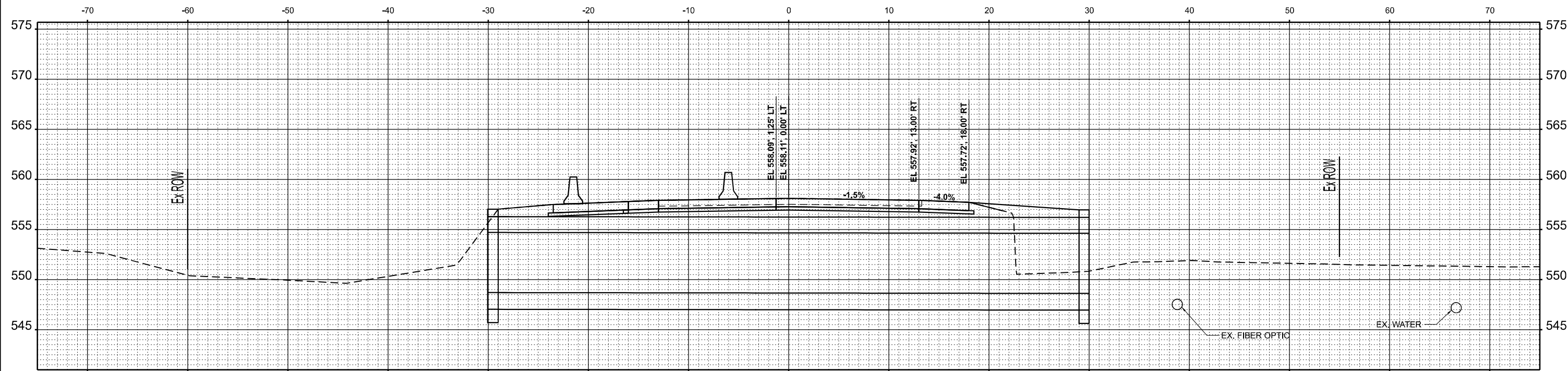
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

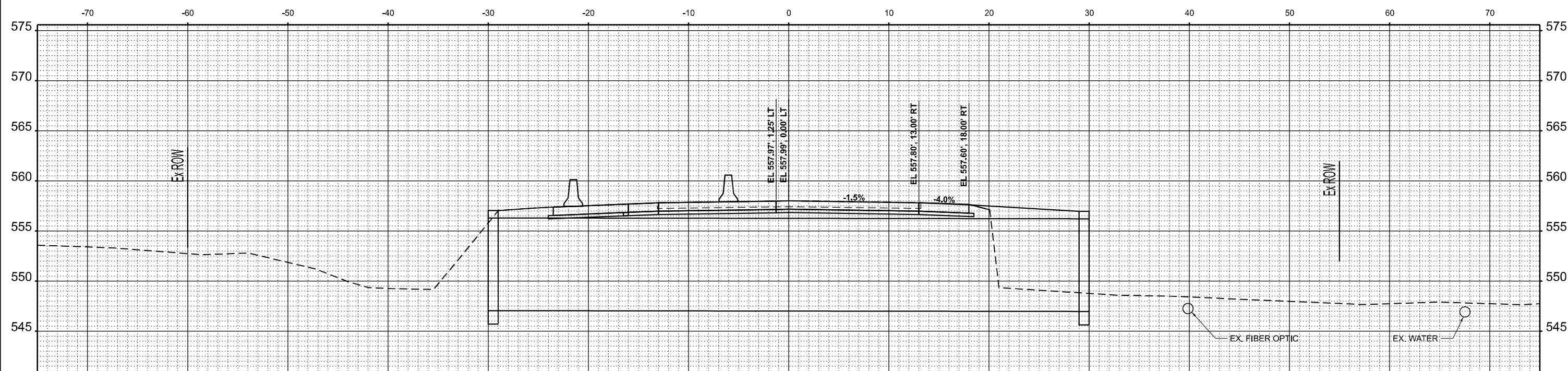
F.A.P. 881 (U.S. ROUTE 45)  
MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	30
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1038+28.28



STA 1038+16.00

MODEL: SHIT - S:\STC0 05  
 FILE NAME: I:\DOT\2025\103816\103816.dwg  
 USER: byoung  
 DATE: 3/25/2024



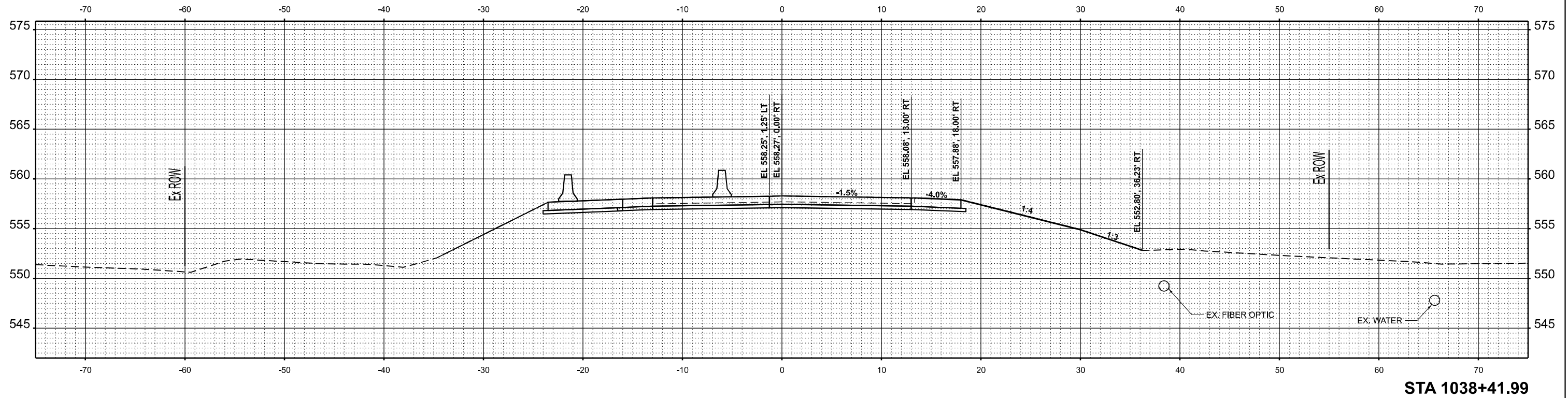
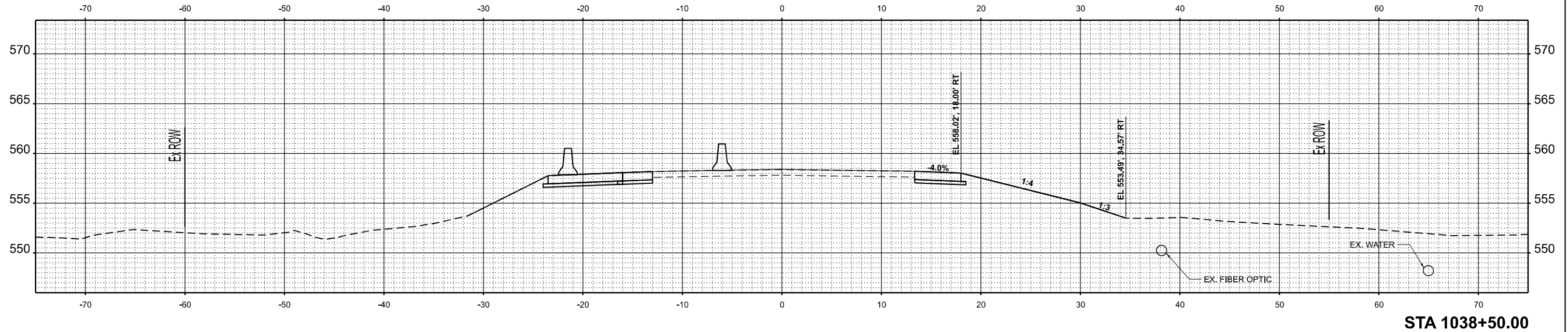
USER NAME = byoung	DESIGNED - \$pnpr\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpr\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (U.S. ROUTE 45)  
MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS**

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

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 31
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL: SHT\_US\_8100\_005  
 FILE NAME: L:\D\220885\_100\HW\_04\Draw\Roadway\CADD\_Sheets\0978718\cmt\stage2\_x3.dgn



USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

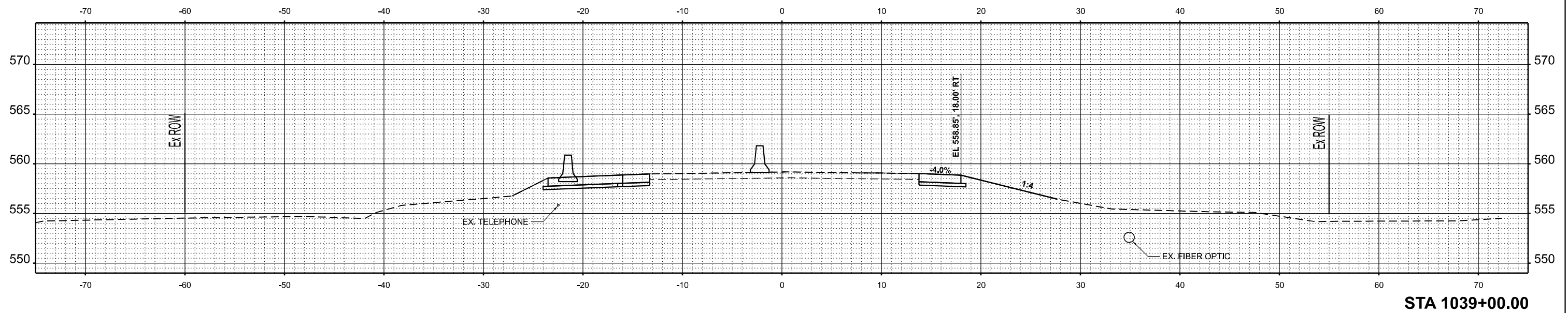
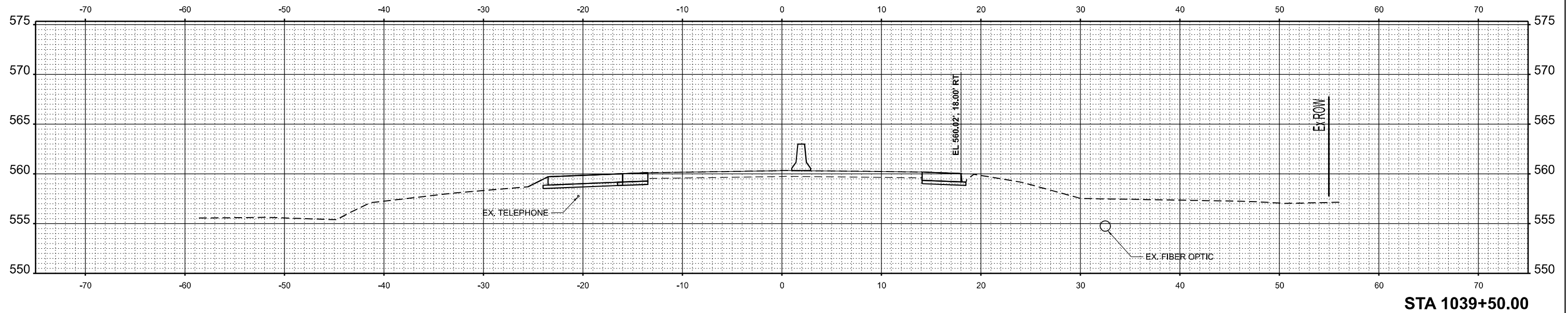
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS

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

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 32
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				





MODEL: S:\IT\US\8103\07  
 FILE NAME: I:\D\122088\100\1039\_00\Draw\Profile\1039\_00\_Sheet\1039\_00.dwg



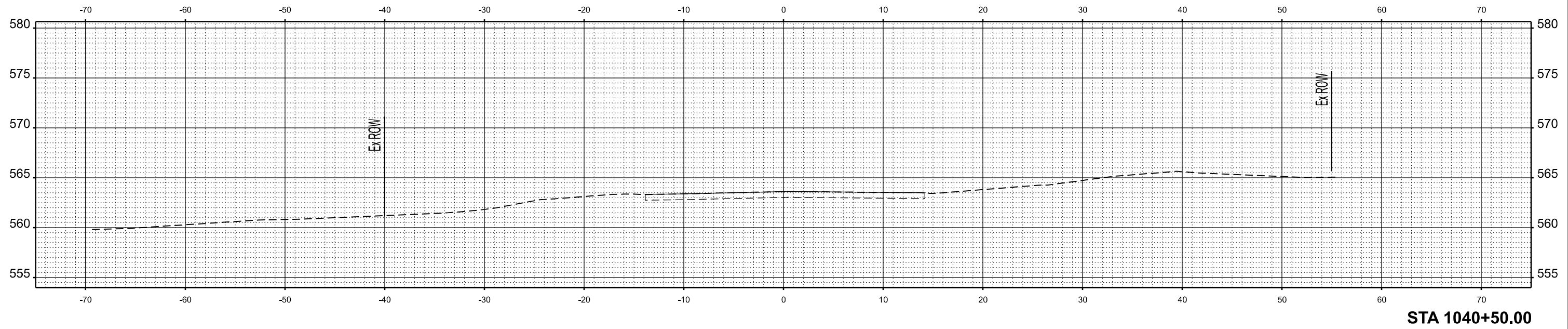
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

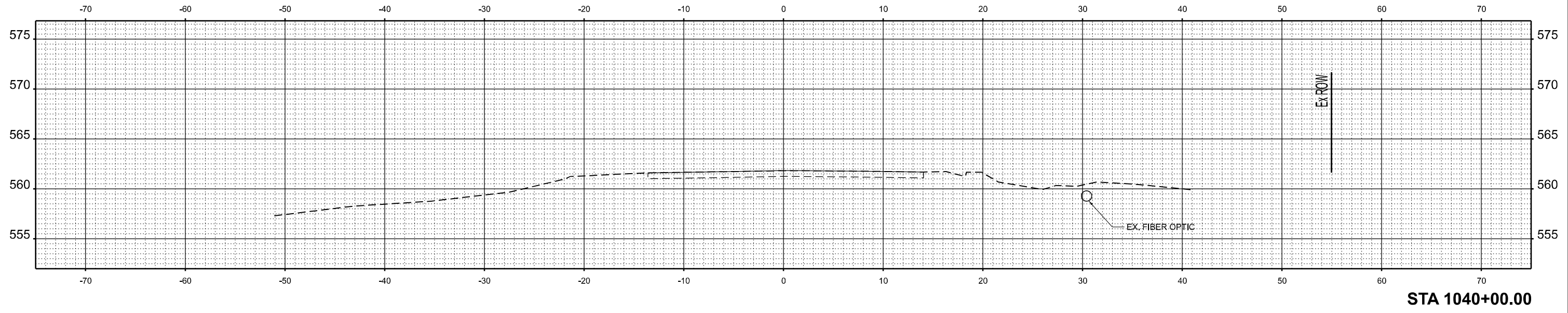
F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	33
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1040+50.00



STA 1040+00.00

MODEL: SHEET: US: STS: 009  
 FILE NAME: L:\D\1220881\1040\1040\_04\Draw\Roadway\CADD\_Sheet\104078718.mxd\sheet2\_as.dgn



USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

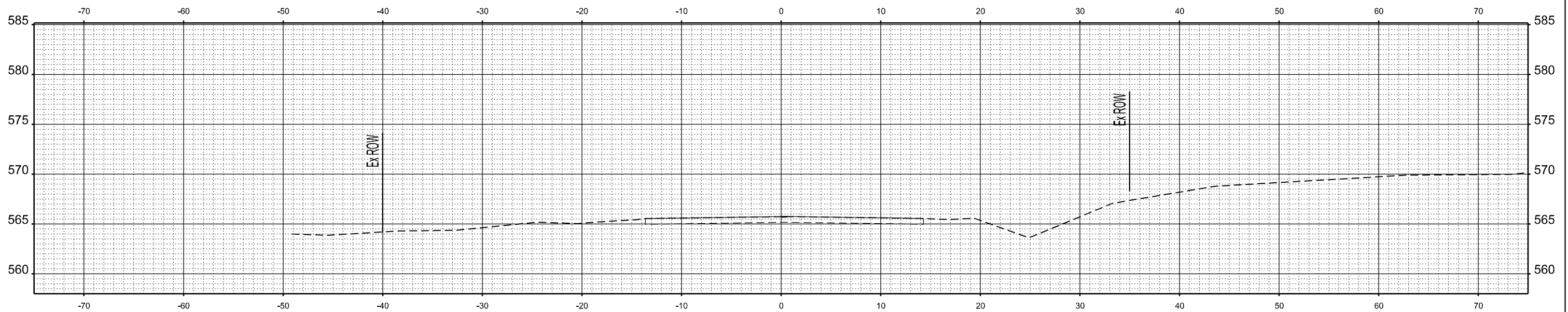
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. 881 (U.S. ROUTE 45)  
MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS  
SCALE: 1"=5'

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	34
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

SHEET OF SHEETS STA. TO STA.

MODEL: S:\IT\US\8100\881  
 FILE NAME: L:\D\12262681\100\HWY\_04\Draw\Roadway\CADD\_Sheets\DR7818-CrossSection2.asdgn



STA 1041+00.00



License No. 184-000613 © Copyright CMT, Inc.

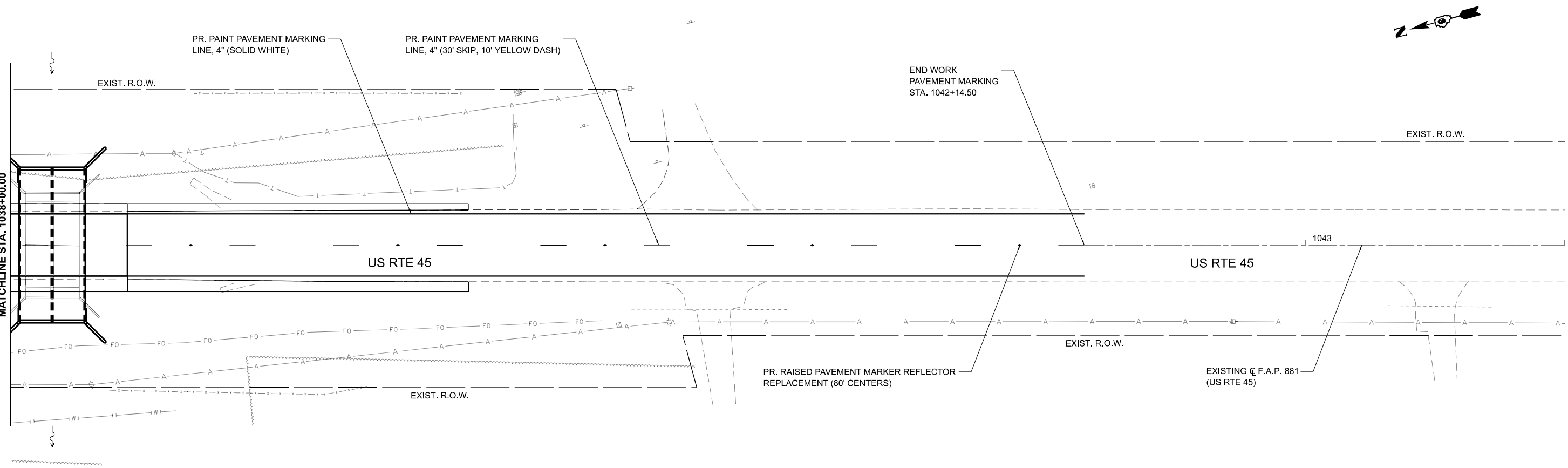
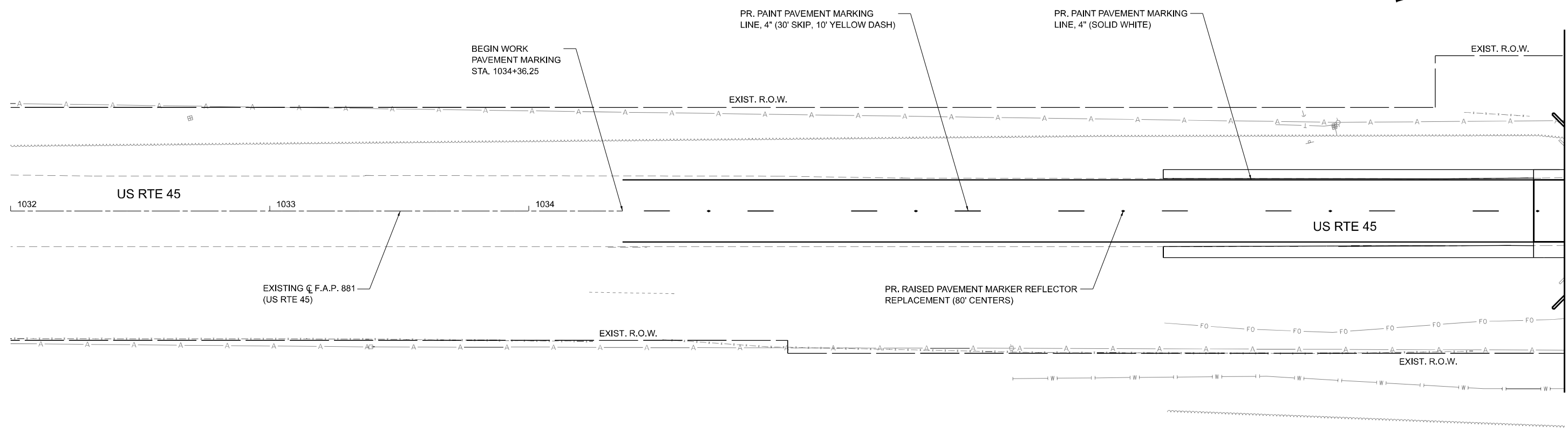
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.P. 881 (U.S. ROUTE 45)  
 MAINTENANCE OF TRAFFIC - STAGE 2 - CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	35
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL: PAK (Sheet)  
 FILE NAME: I:\DOT\220681\220681\_04\Draw\Roadway\CADD\_Sheet\0978718.mxd.dgn

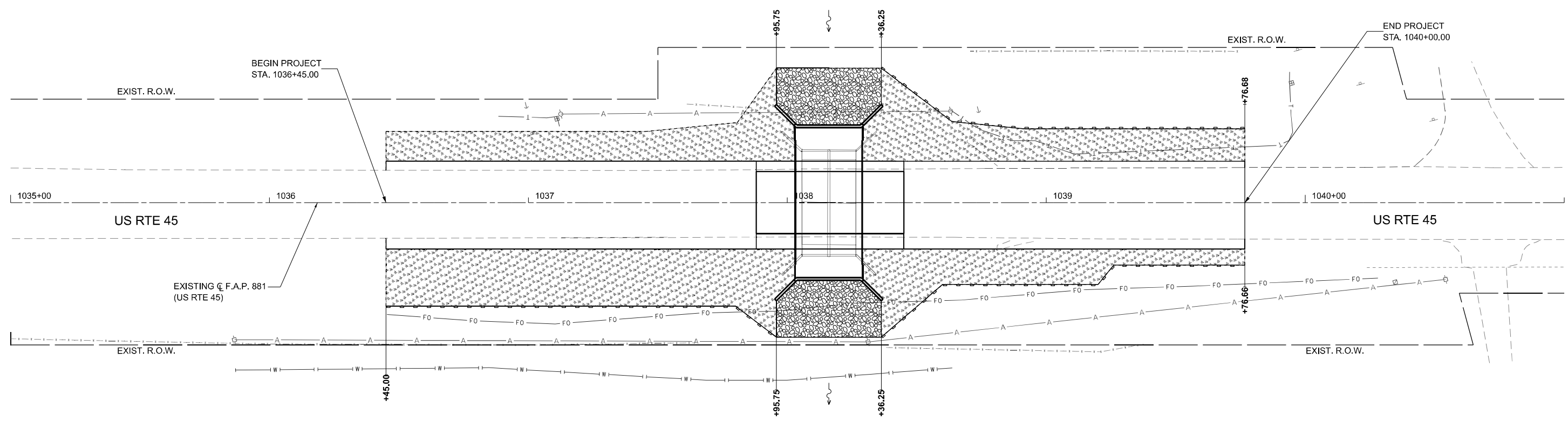
USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1666000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2024	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)**  
**PAVEMENT MARKING PLAN**

SCALE: 1"=20'      SHEET 1 OF 1 SHEETS      STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	36
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL: Erosion Control  
 FILE NAME: E:\D\220681\220681\020\HW\_04\Draw\Roadway\CADD\_Sheets\0978718\erocn.dgn

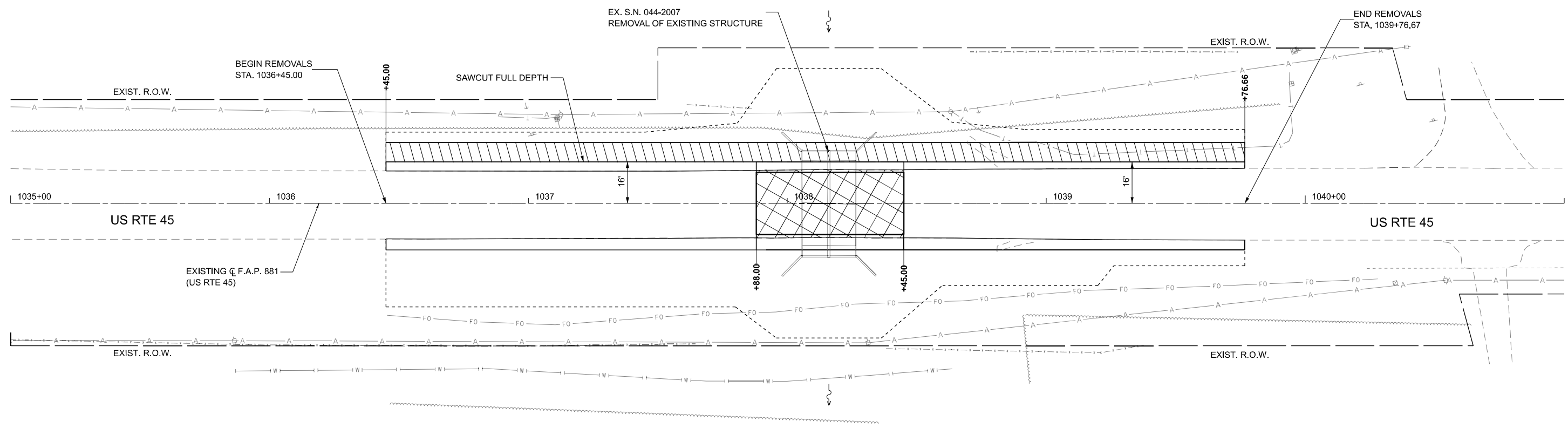
USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667 / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2024	DATE -	REVISED -



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (US ROUTE 45)**  
**EROSION CONTROL PLAN**

SCALE: 1"=20'      SHEET 1 OF 1 SHEETS      STA.      TO STA.

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 37
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PAVEMENT REMOVAL, FULL-DEPTH
	SHOULDER REMOVAL

MODEL: R:\m\rd\18\sheet1  
 FILE NAME: L:\D\222688\1200\NO\_04\Draw\Roadway\CADD\_Sheet1D978718\sheetremoval.dgn

USER NAME = Blake Young	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666667 / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2024	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>F.A.P. 881 (US ROUTE 45)</b> <b>REMOVAL PLAN</b>			
SCALE: 1"=20'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	38
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

Bench Mark: Stamped "X" in top of exposed rebar on the top of the southwest wingwall. Elev. 556.70

Existing Structure: S.N. 044-2007 was originally constructed in 1922 as SBI Rte. 1, Section 35-A, a double barrel reinforced 10' x 7'-6" culvert on footings with a zero degree skew. In 1937 the culvert was widened, as SBI Route 1, Section 35 R, to an out to out headwalls length of 41'-4" with flared L-type wingwalls. The structure will be replaced utilizing staged construction.

Salvage: None

Precast option is not allowed.

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface

**DESIGN STRESSES**  
FIELD UNITS  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinf.)

**DESIGN SPECIFICATIONS**  
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**WATERWAY INFORMATION**

Drainage Area = 0.7 Sq. Mi. Low Grade Elev. = 557.6 @ Sta. 1037+54

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	H.W.E. Prop.	Exist.	Prop.	
Design	10	644	70	101	552.9	1.3	0.6	554.2	553.5
Base	50	1,110	88	122	553.8	2.6	1.4	556.4	555.2
Overtop	100	1,330	94	130	554.1	3.2	1.9	557.3	556.0
Max Calc.	400	1,780	104	142	554.6	3.7	3.1	558.3	557.7
	500	1,920	106	144	554.7	3.7	3.3	558.4	558.0

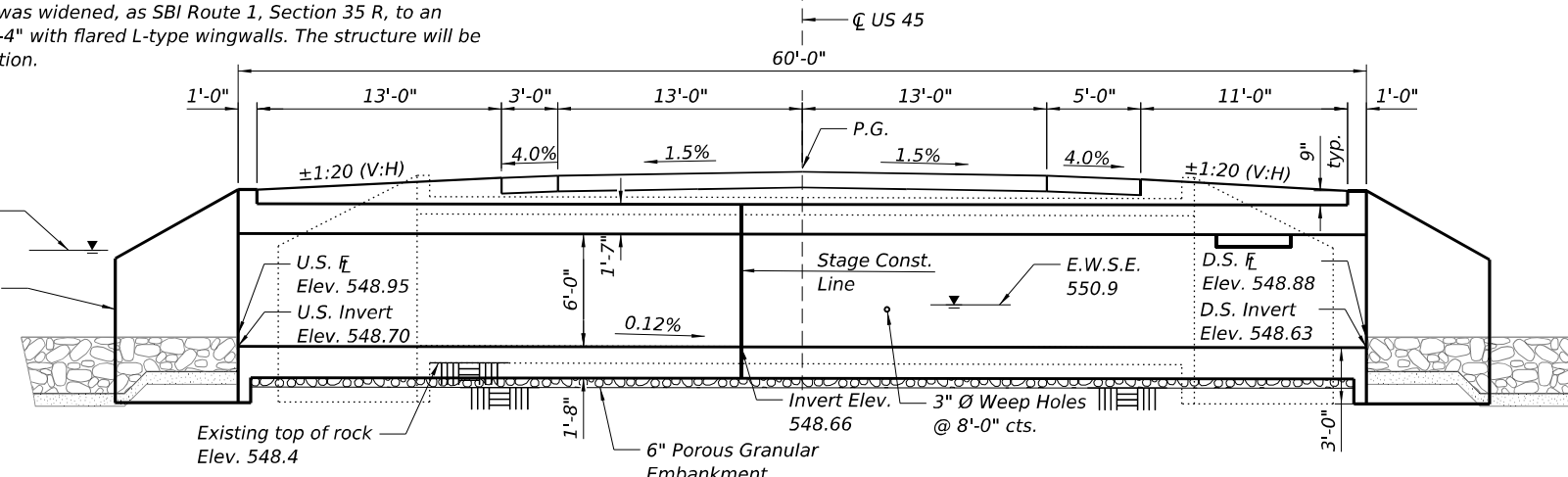
Existing 10 year outlet velocity = 7.6 ft/s  
Proposed 10 year outlet velocity = 6.2 ft/s

**TOTAL BILL OF MATERIAL**

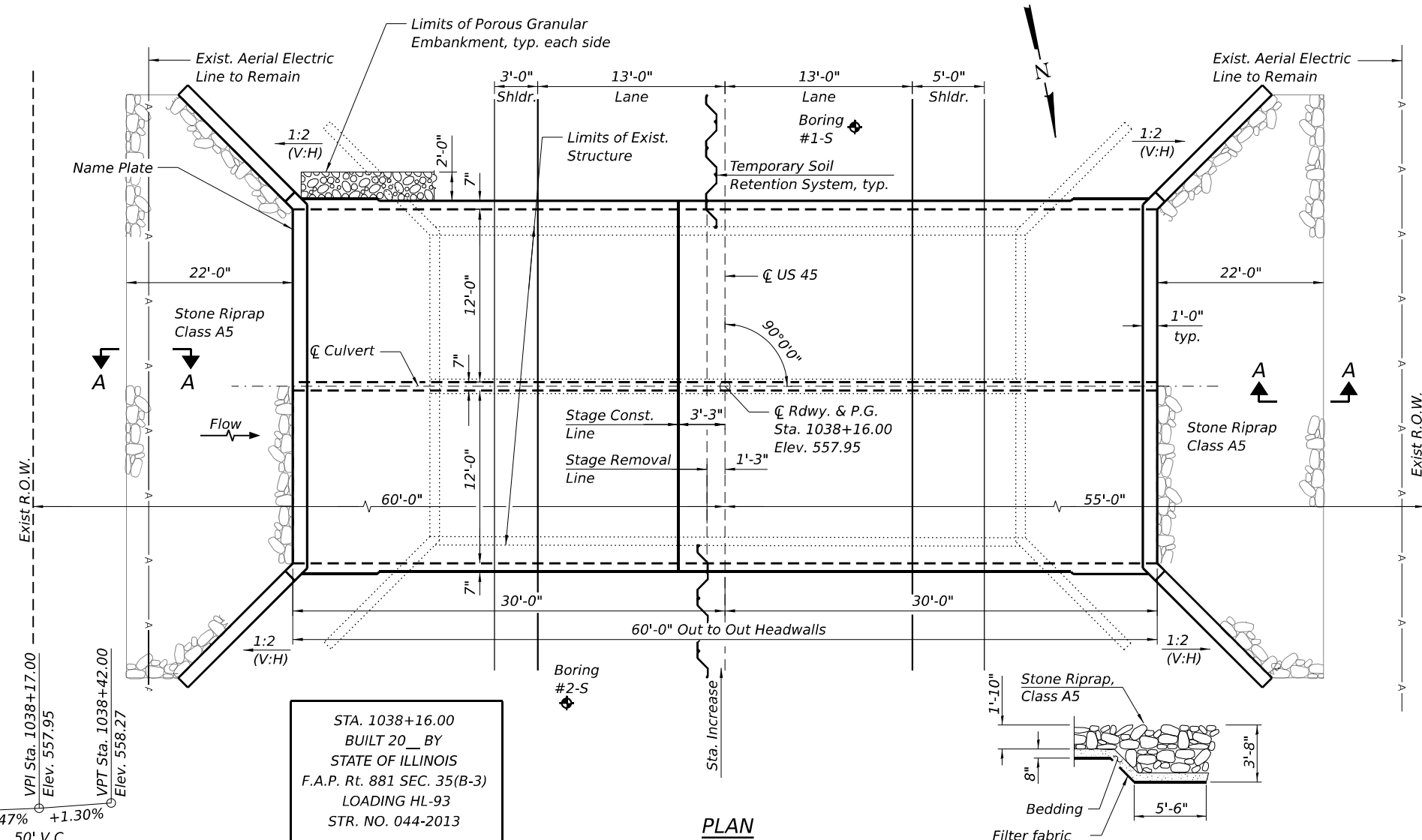
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	460
Stone Riprap, Class A5	Sq. Yd.	184
Filter Fabric	Sq. Yd.	184
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	104
Rock Excavation for Structures	Cu. Yd.	209
Reinforcement Bars	Pound	33,500
Bar Splicers	Each	125
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	167
Concrete Box Culverts	Cu. Yd.	226.6
Geocomposite Wall Drain	Sq. Yd.	206
Waterproofing Membrane System for Buried Structures	Sq. Yd.	206

**SHEET INDEX:**

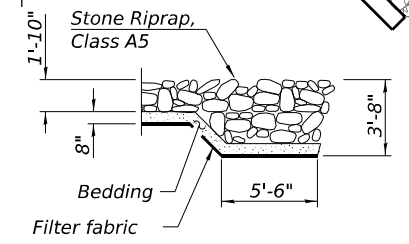
1. General Plan and Elevation
2. Staging Details
3. Culvert Details - I
4. Culvert Details - II
5. Bar Splicer Details
6. Soil Boring Logs



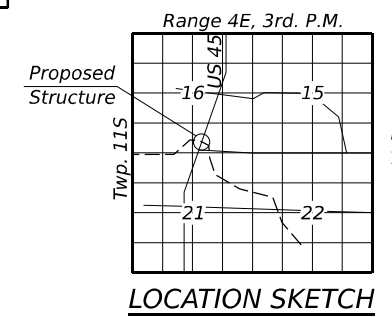
**LONGITUDINAL SECTION**



**PLAN**



**SECTION A-A**

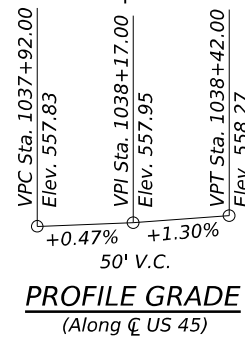


**LOCATION SKETCH**



"I certify that to the best of my knowledge, information and belief, this design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with the requirements of the current Design Specifications listed."

**GENERAL PLAN AND ELEVATION**  
**U.S. RTE. 45 OVER STREAM**  
**F.A.P. RTE. 881 - SECTION 35(B-3)**  
**JOHNSON COUNTY**  
**STATION 1038+16.00**  
**STRUCTURE NO. 044-2013**



**PROFILE GRADE**  
(Along US 45)

STA. 1038+16.00  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. Rt. 881 SEC. 35(B-3)  
LOADING HL-93  
STR. NO. 044-2013

**NAME PLATE**  
See Std. 515001

FILE NAME: L:\DOT\2006613\01\Draw\Structures\CADD\_Sheets\0442013-28713-001-General Plan and Elevation.dgn



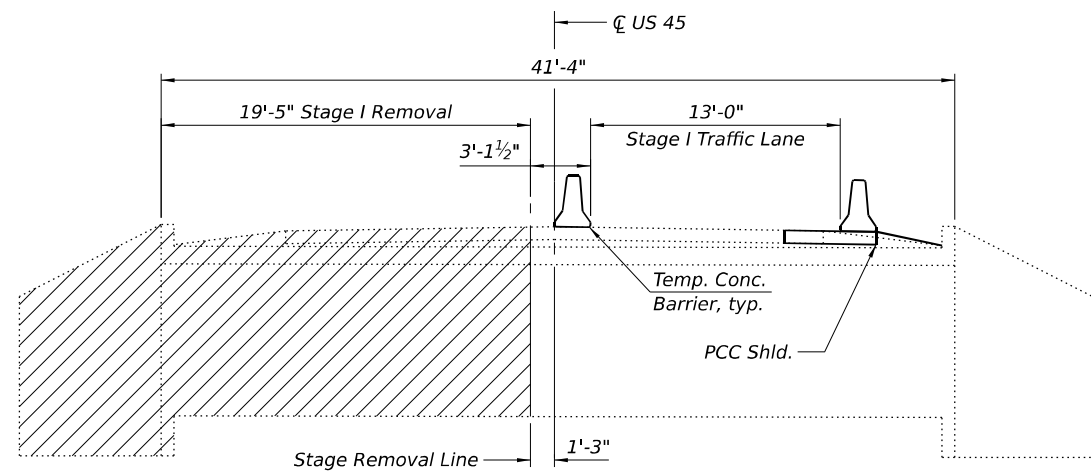
USER NAME = bholland	DESIGNED - BLH	REVISED -
PLOT SCALE = N/A	DRAWN - BLH	REVISED -
PLOT DATE = 4/24/2024	CHECKED - DH	REVISED -
	DATE - 03/21/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

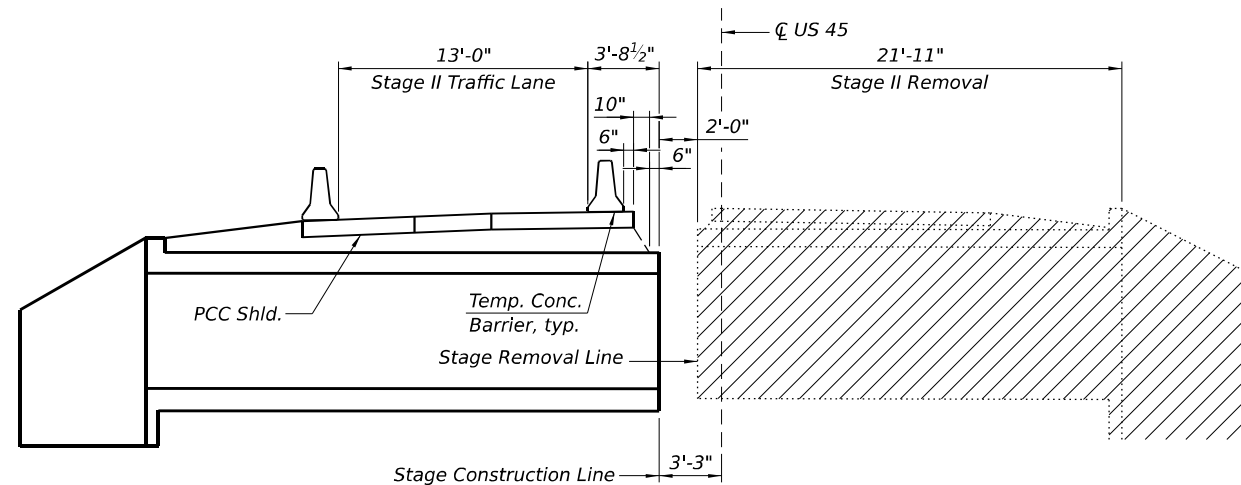
**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 044-2013**

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

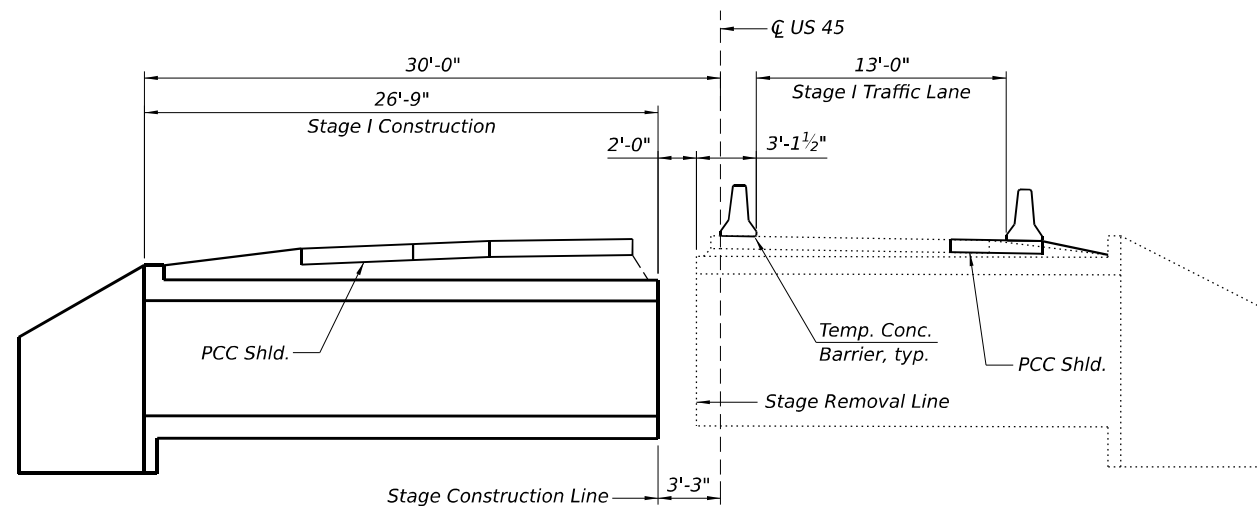
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	39
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



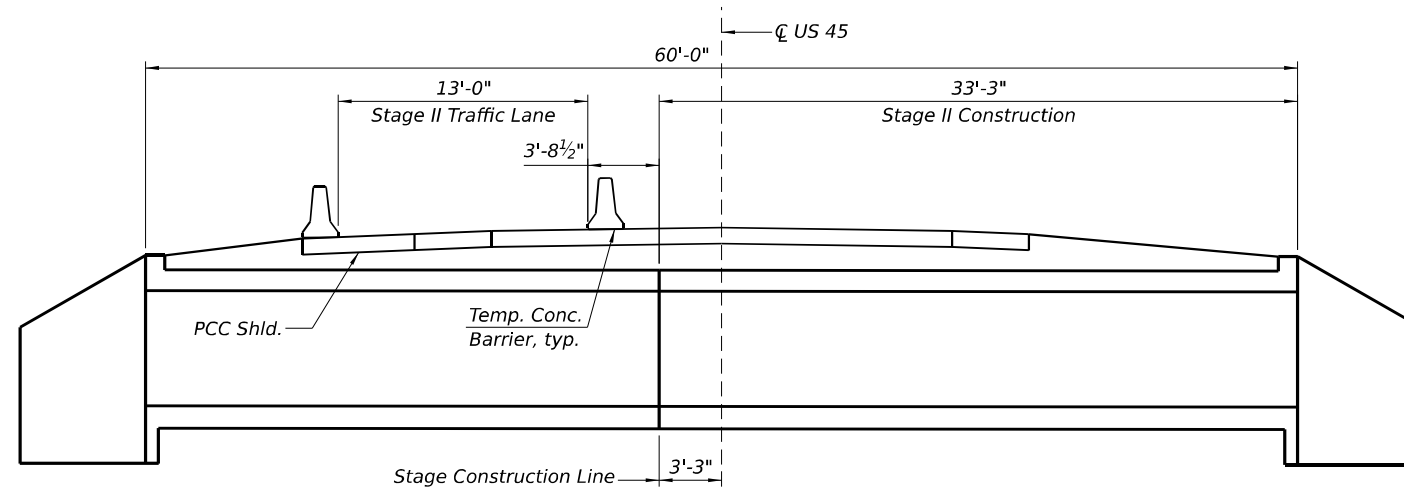
**STAGE I REMOVAL**



**STAGE II REMOVAL**



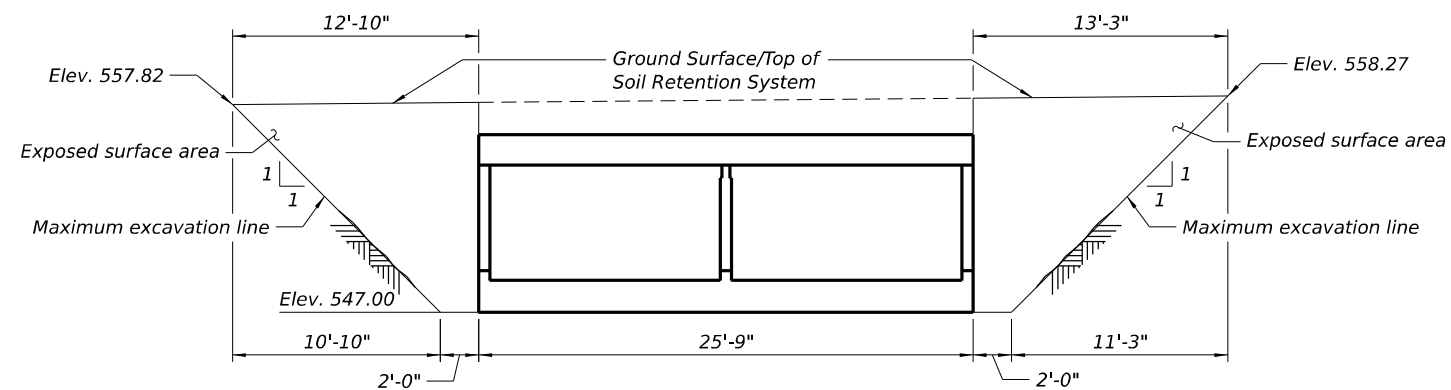
**STAGE I CONSTRUCTION**



**STAGE II CONSTRUCTION**

**STAGE CONSTRUCTION DETAILS**

(Looking South)



**TEMPORARY SOIL RETENTION SYSTEM**

(Looking East)

Note:  
1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE NAME: L:\PLOT\2006613-00\W0\_04\Draw\Structures\CADD\_Sheet\0442013-78718-003-Staging\_Details.dgn



USER NAME = byoung	DESIGNED - BLH	REVISED -
PLOT SCALE = N/A	DRAWN - BLH	REVISED -
PLOT DATE = 4/9/2024	CHECKED - DH	REVISED -
	DATE - 03/21/2024	REVISED -

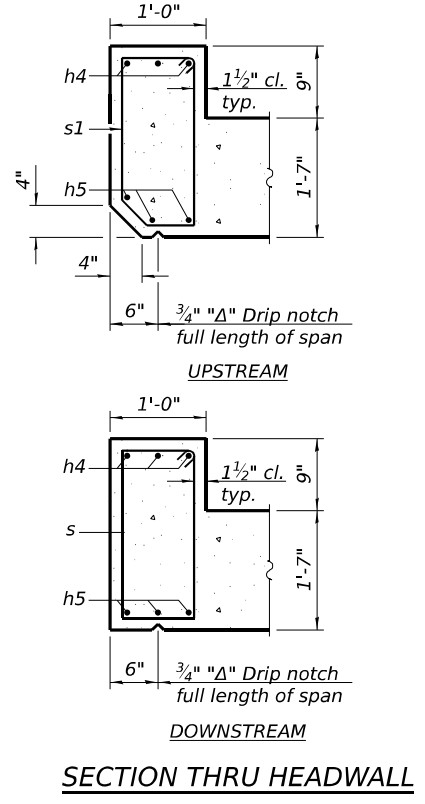
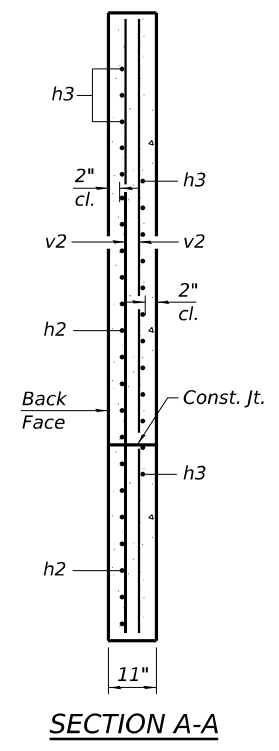
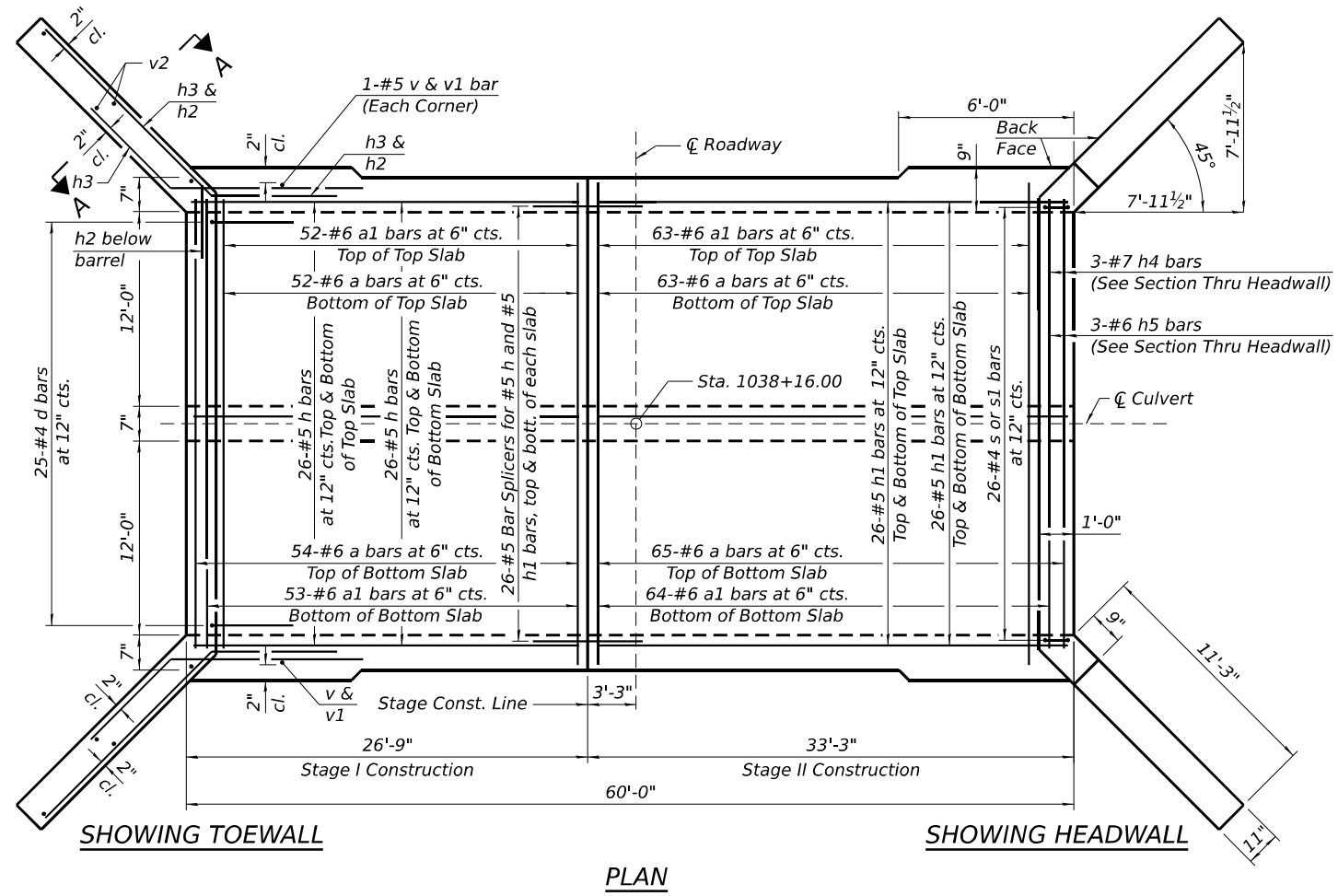
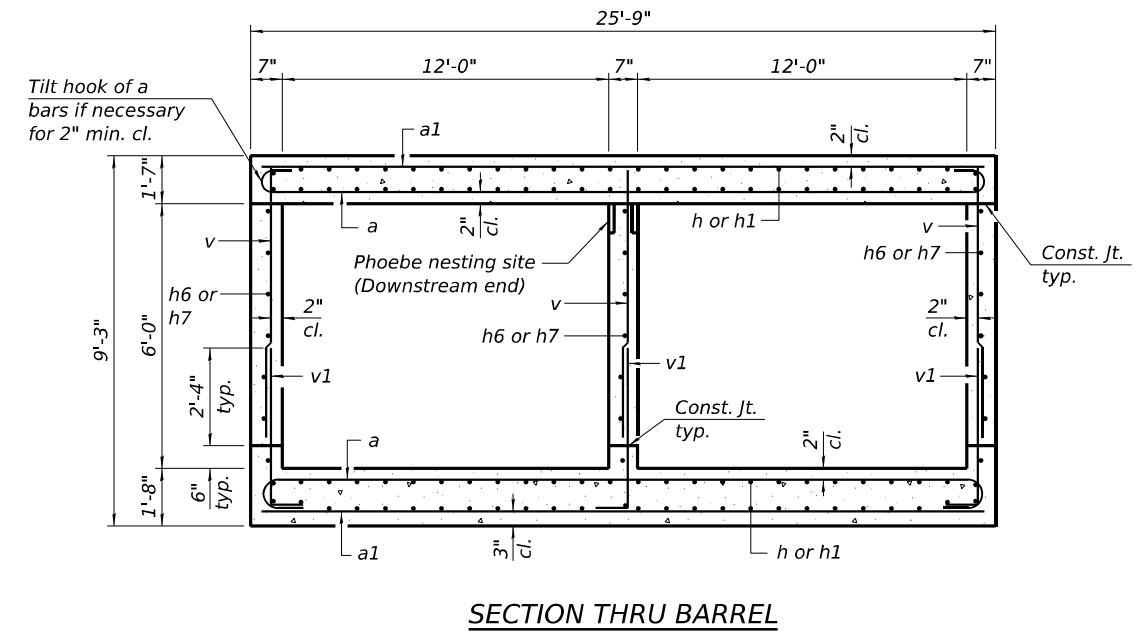
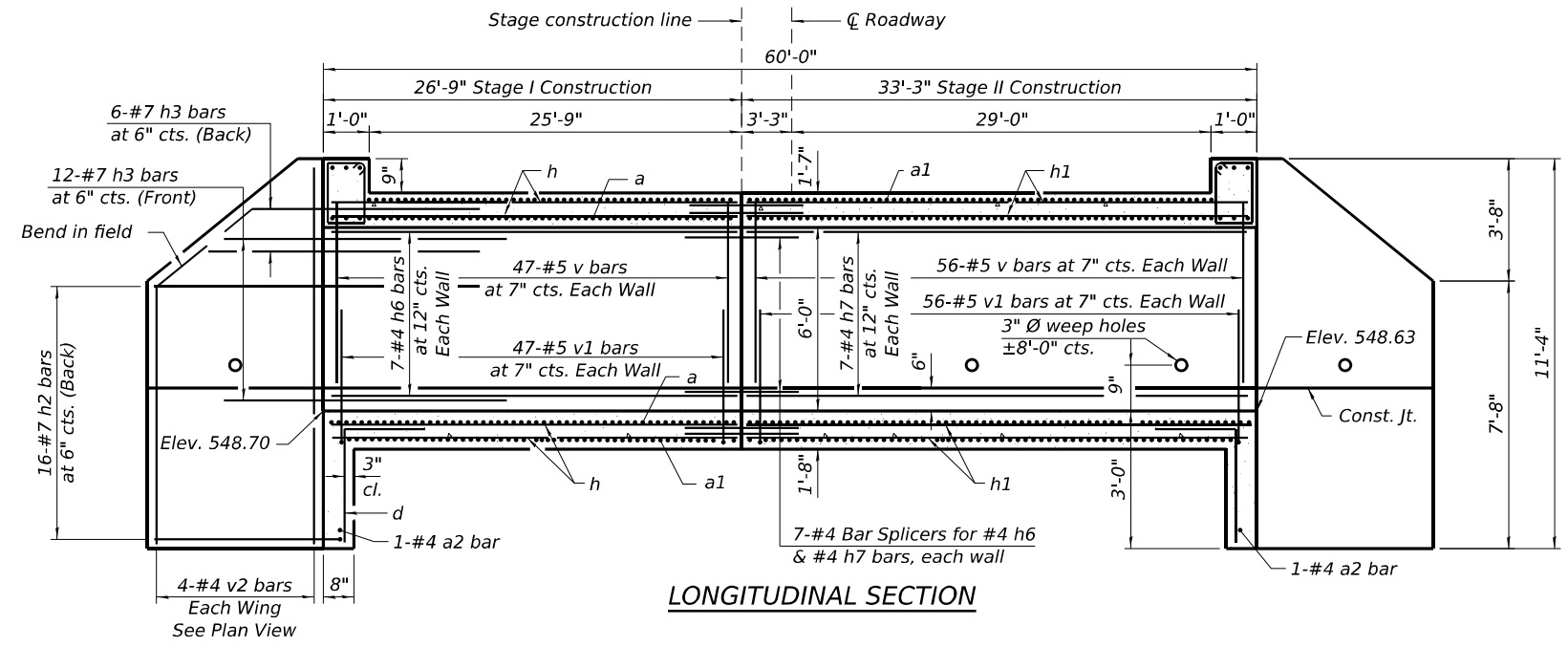
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING DETAILS  
STRUCTURE NO. 044-2013**

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	40
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				





- Notes:
1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
  2. At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.

FILE NAME: L:\P\01220061\01\WO\_04\DrawStructures\CADD\_Sheet\0422013-7871\B-003-Culvert Details - 1.dgn



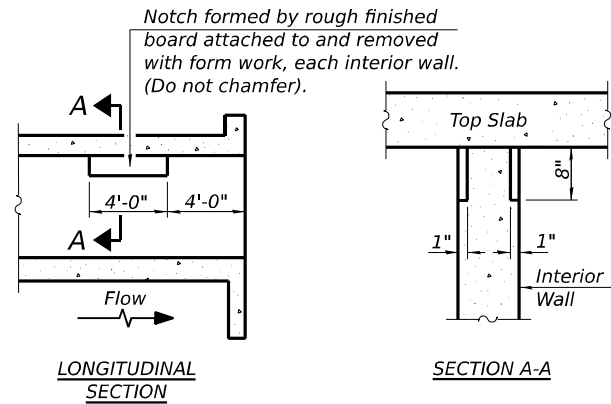
USER NAME = dherrera	DESIGNED - BLH	REVISED -
PLOT SCALE = N/A	DRAWN - BLH	REVISED -
PLOT DATE = 4/24/2024	CHECKED - DH	REVISED -
	DATE - 03/21/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

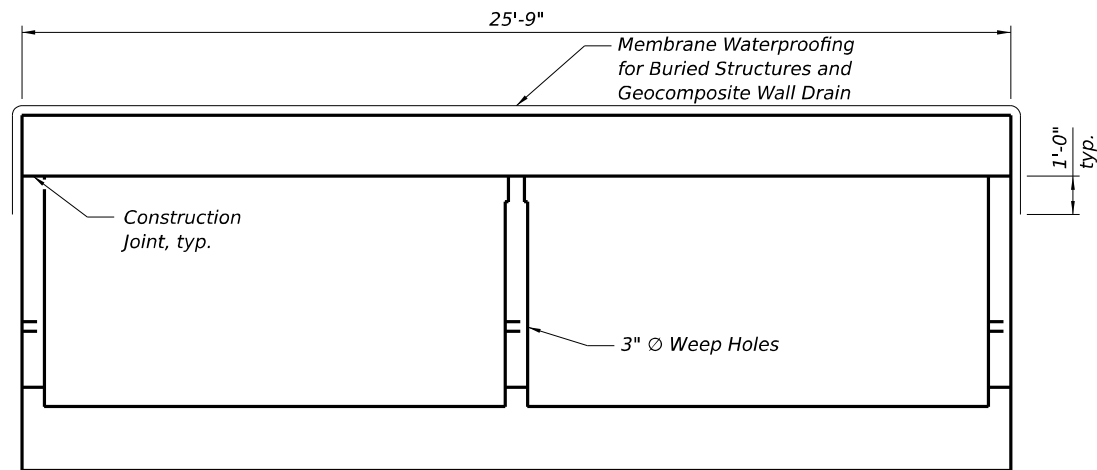
CULVERT DETAILS - I  
STRUCTURE NO. 044-2013

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	41
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



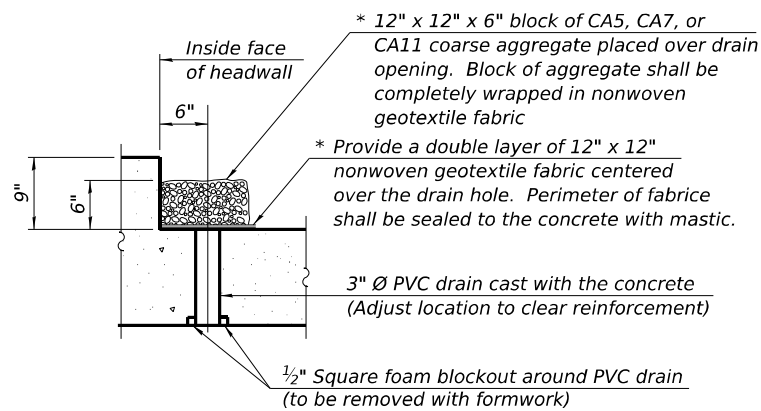
**PHOEBE NESTING**  
**SITE DETAILS**  
(Downstream End Only)



**MEMBRANE WATERPROOFING DETAIL**

(Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.)

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



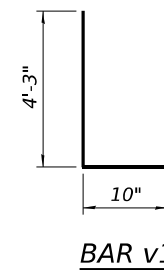
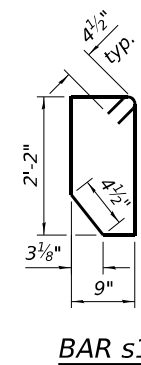
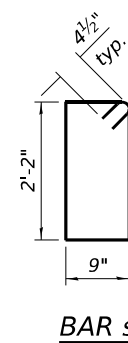
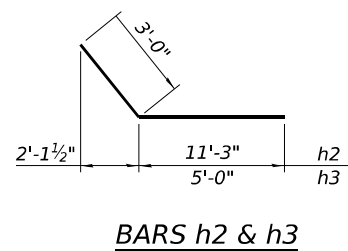
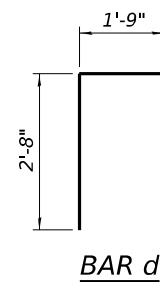
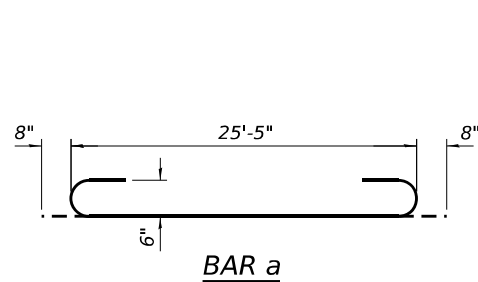
**DRAIN DETAIL**

(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.)

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	234	#6	26'-9"	
a1	232	#6	25'-5"	
a2	2	#4	25'-5"	
d	50	#4	4'-5"	
h	104	#5	26'-5"	
h1	104	#5	32'-11"	
h2	64	#7	14'-3"	
h3	72	#7	8'-0"	
h4	6	#7	25'-5"	
h5	6	#6	25'-5"	
h6	21	#4	26'-5"	
h7	21	#4	32'-11"	
s	26	#4	6'-7"	
s1	26	#4	6'-6"	
v	313	#5	6'-9"	
v1	313	#5	5'-1"	
v2	16	#4	10'-11"	
Reinforcement Bars			Pound	33,500
Concrete Box Culverts			Cu. Yd.	226.6

Note:  
Headwall drains shall be placed at midspan of each cell span, at each headwall.



FILE NAME: L:\PLOT\2006613-00\WO\_04\Draw\Structures\CADD\_Sheets\042013-78713-00-Culvert Details - II.dgn



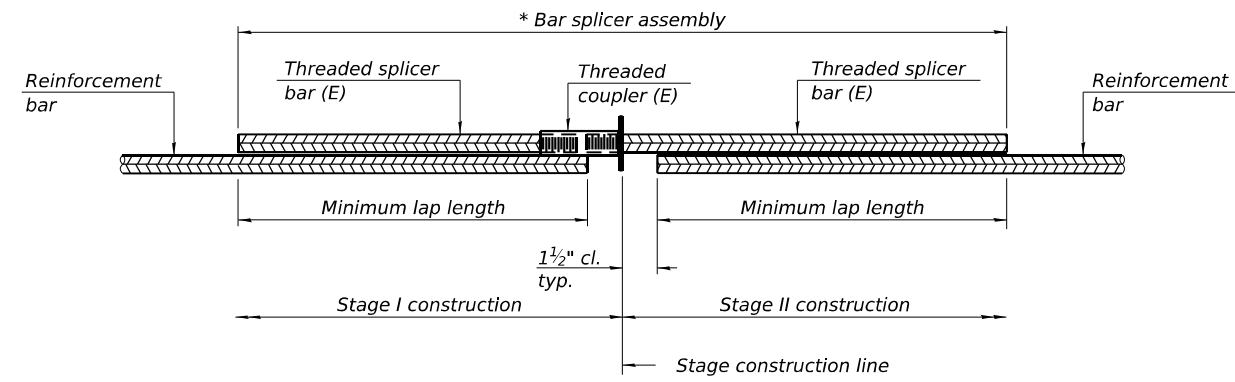
USER NAME = bholland	DESIGNED - BLH	REVISED -
PLOT SCALE = N/A	DRAWN - BLH	REVISED -
PLOT DATE = 4/24/2024	CHECKED - DH	REVISED -
	DATE - 03/21/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - II  
STRUCTURE NO. 044-2013

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	42
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



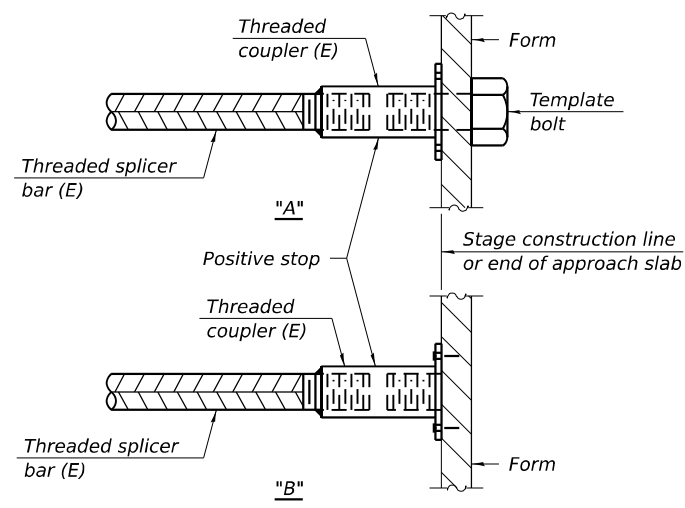
**STANDARD BAR SPLICER ASSEMBLY PLAN**

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

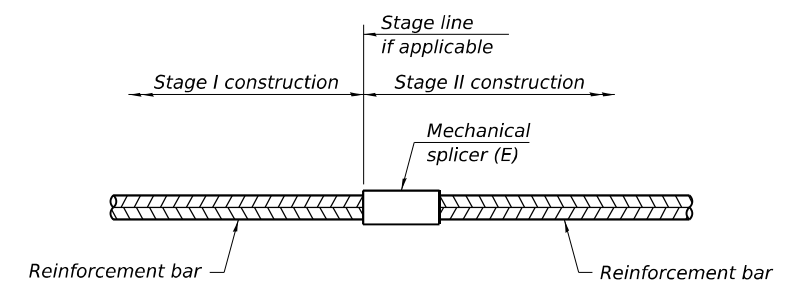
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#5	52	2'-9"
Bottom Slab	#5	52	2'-9"
N. Exterior Wall	#4	7	2'-3"
Interior Wall	#4	7	2'-3"
S. Exterior Wall	#4	7	2'-3"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

Notes:  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME: L:\PLOT\2006613-00\WO\_04\Draw\Structures\CADD\_Sheet\0442013-7871\_8-005-Bar Splicer Details.dgn

BSD-1

5-15-2023



USER NAME = dherrera	DESIGNED - BLH	REVISED -
PLOT SCALE = N/A	DRAWN - BLH	REVISED -
PLOT DATE = 3/20/2024	CHECKED - DH	REVISED -
	DATE - 03/21/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER DETAILS  
STRUCTURE NO. 044-2013

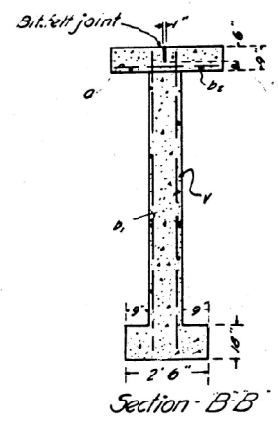
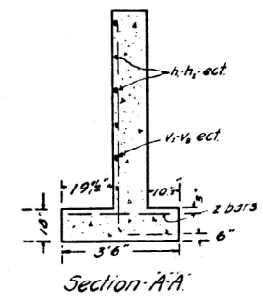
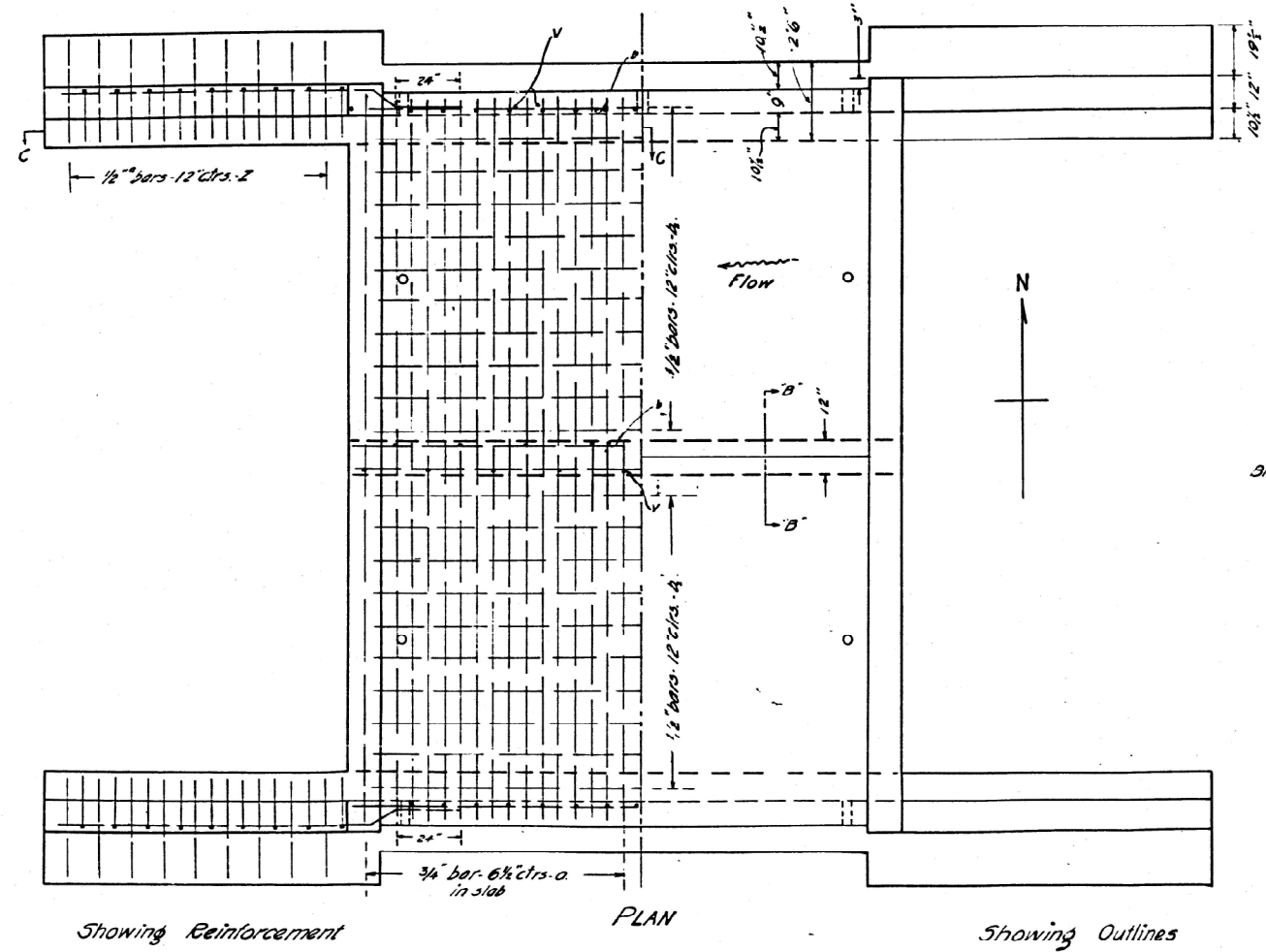
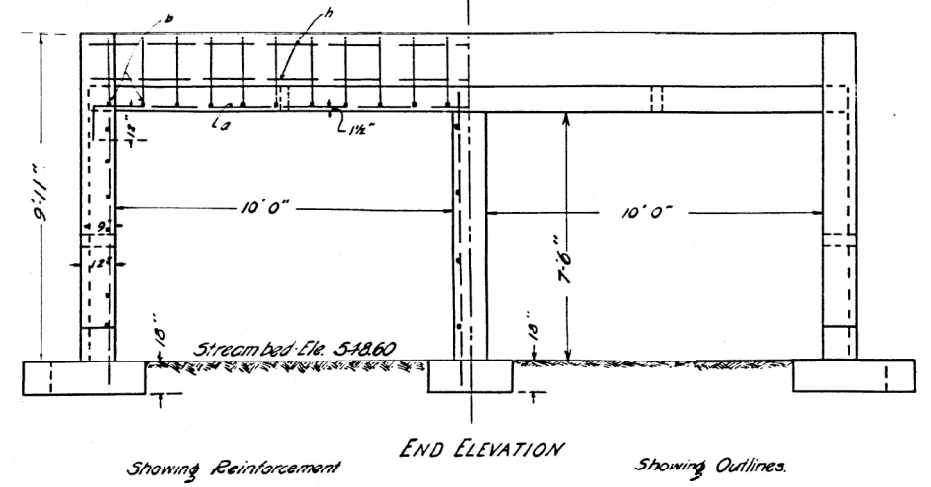
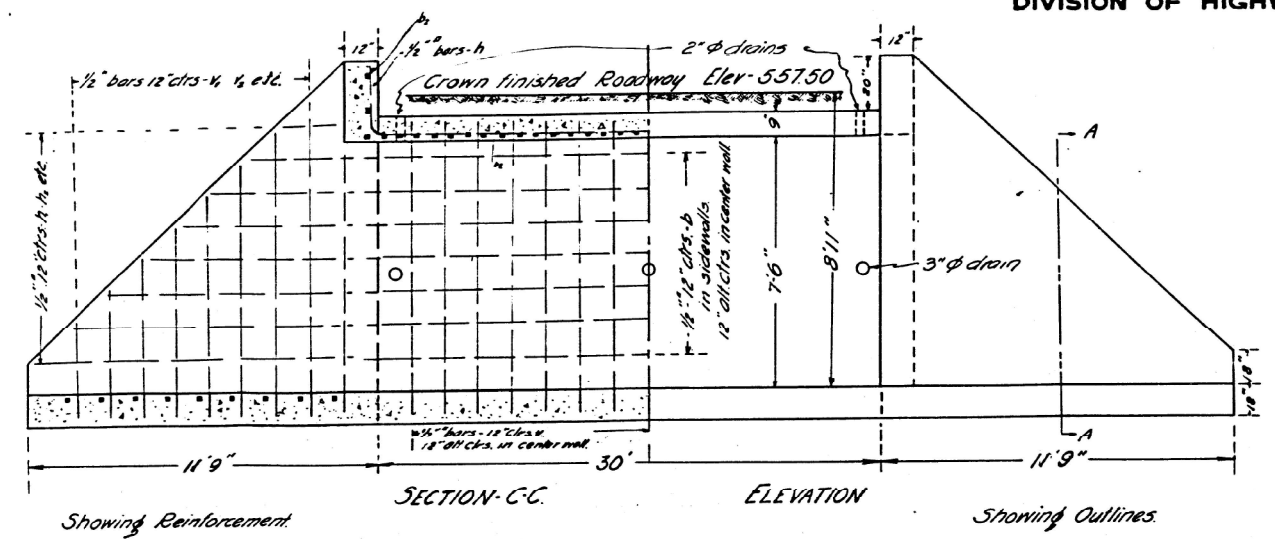
SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	43
CONTRACT NO. 78718			ILLINOIS FED. AID PROJECT	



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

NO EXISTING STRUCTURE



Bars	No.	Size	Length
y	90	1/2"	9'-0"
1/2	16	"	5'-0"
1/2	8	"	7'-0"
1/2	8	"	9'-0"
1/2	8	"	11'-0"
h	4	1/2"	22'-6"
A	8	"	14'-0"
h	8	"	11'-6"
h	8	"	7'-6"
h	8	"	5'-6"
a	59	3/4"	24'-0"
b	42	1/2"	17'-0"
h	44	1/2"	18'-0"
z	40	1/2"	3'-3"
Reinforcing Steel - lbs. - 5380			
Concrete - Cu Yds - 75.5			

Class A Concrete to be used thruout. Proportions - 1-2 1/2-4

Sta. 1038+20  
State Bond Issue Route #1  
Section 35A - Johnson Co.

COMPUTED - <i>Edgerney</i>	EXAMINED <i>Jan 26, 1927</i>
CHECKED - <i>W. Schneider</i>	<i>W. Schneider</i> BRIDGE ENGINEER
DRAWN - <i>WMS</i>	PASSED <i>W. Schneider</i>
CHECKED - <i>WMS</i>	<i>W. Schneider</i> ENGINEER OF DESIGN
ASSEMBLED -	APPROVED <i>Clifford Alder</i> CHIEF HIGHWAY ENGINEER
CHECKED -	

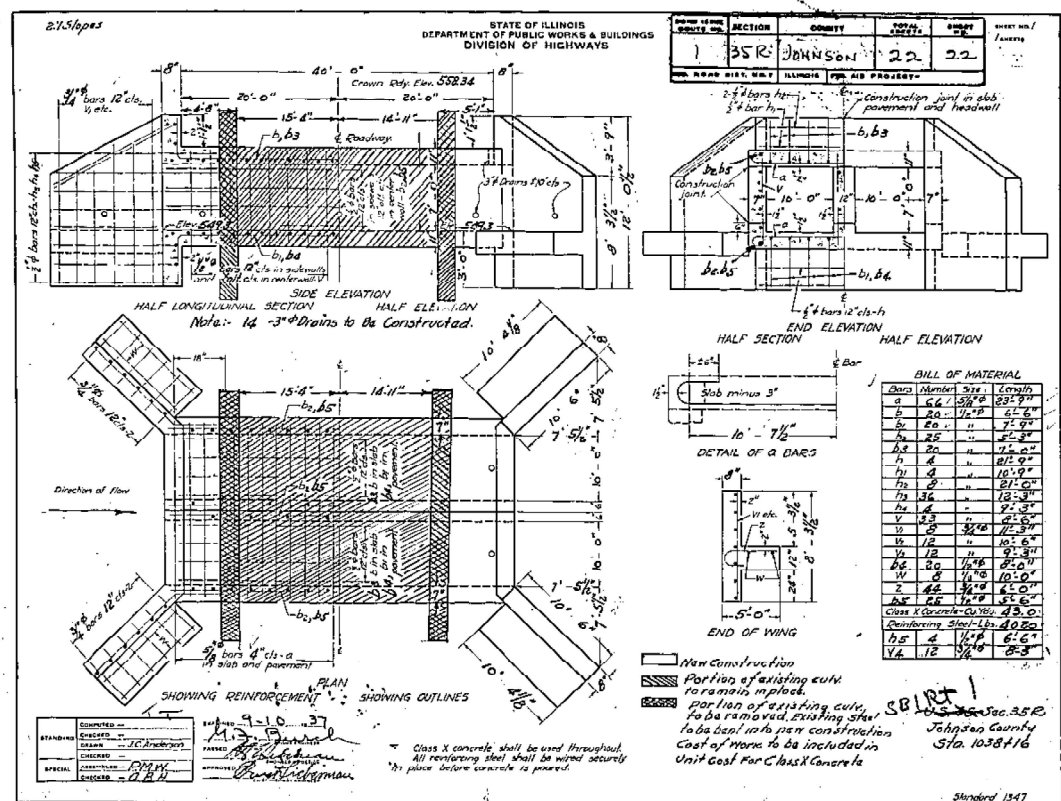
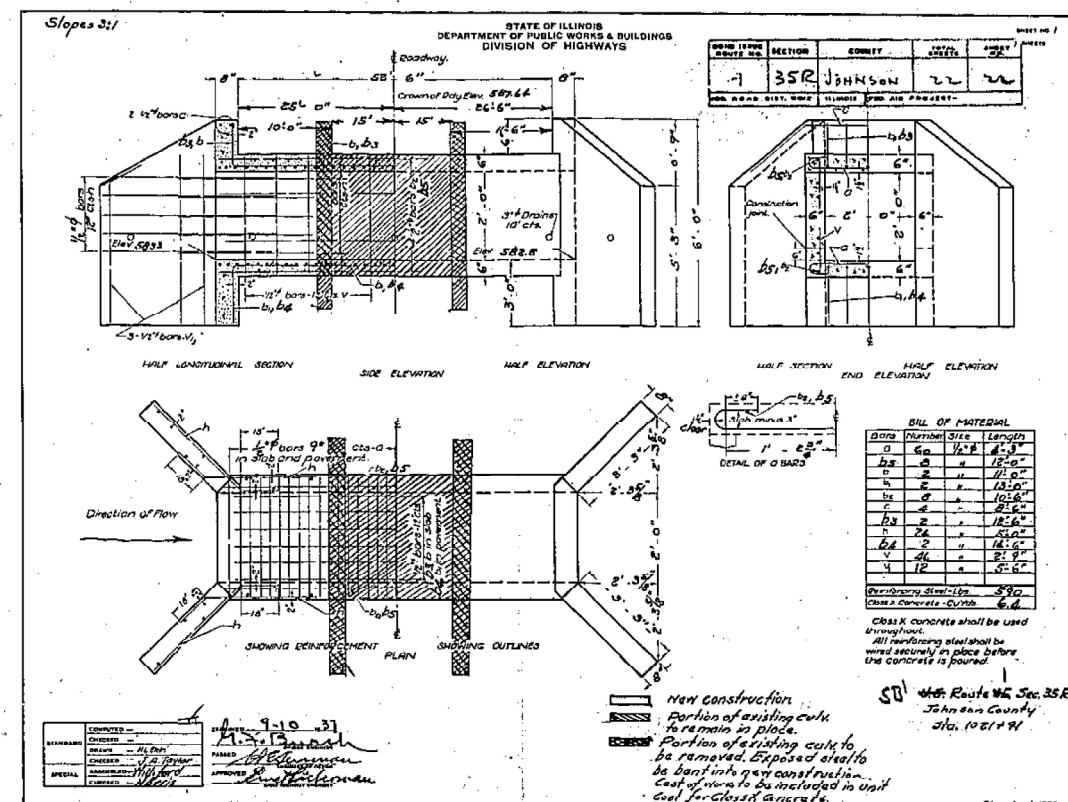
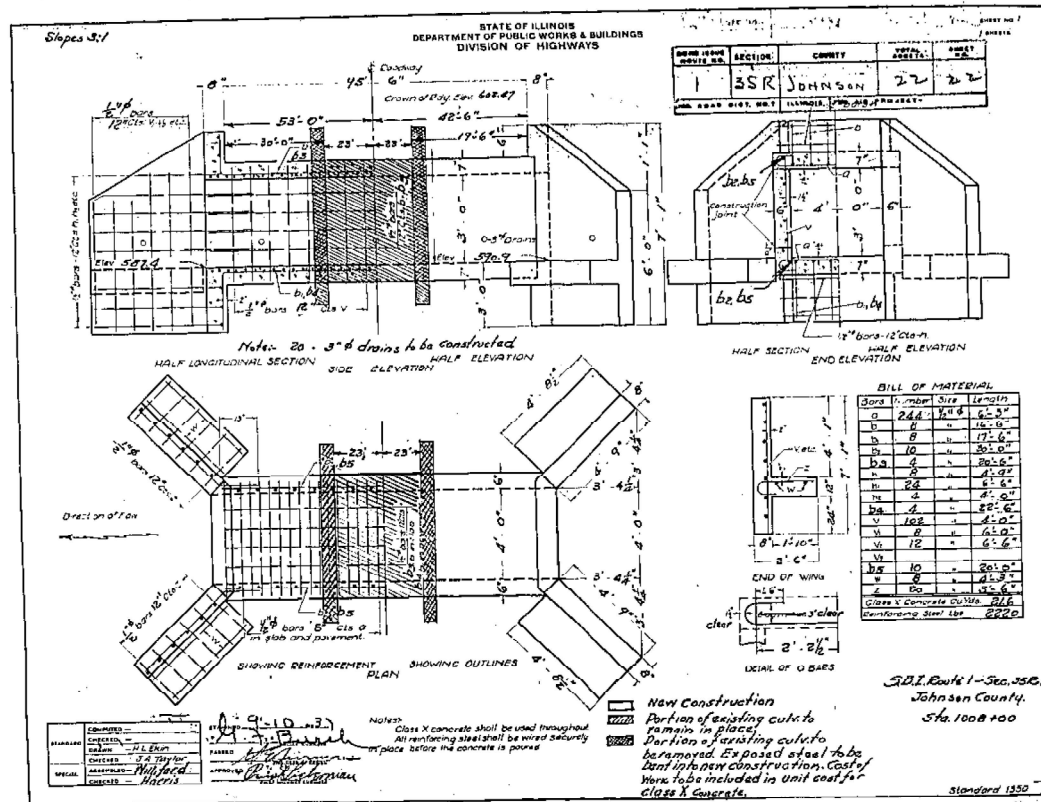
USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = \$SCALES	DRAWN -	REVISED -
PLOT DATE = \$DATES	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING CULVERT PLANS I

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	45
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL - 440014MMES  
FILE NAME - 811E15

USER NAME = SUSERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALE5	CHECKED -	REVISED -
PLOT DATE = SDATES	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

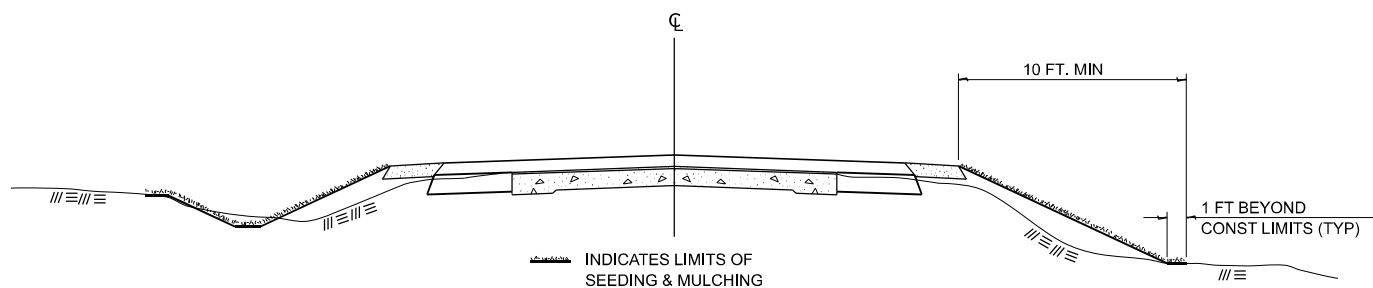
EXISTING CULVERT PLANS II

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	46
CONTRACT NO. 78718				

ILLINOIS FED. AID PROJECT

### SEEDING & MULCHING



### GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS. LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

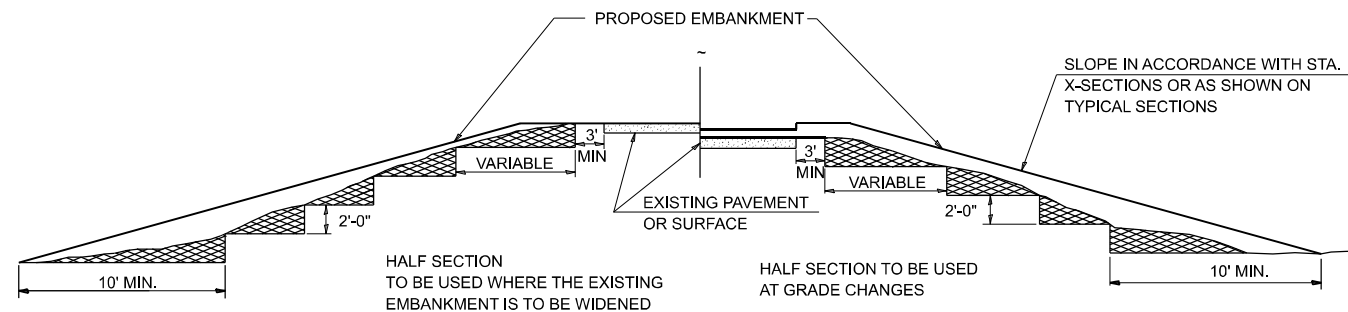
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SECTIONS 250 AND 251 SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

DRAWN	02-15-89
REVISED	03-27-08
REVISED	10-21-21
REVISED	05-27-22

STD. 9-19

### TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL

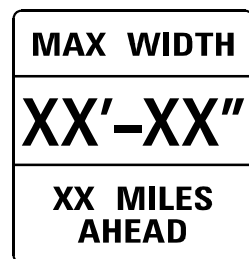


STEPS SHALL BE CUT IN THE EXISTING SLOPE IN ACCORDANCE WITH ART. 205.03 EXCEPT THAT THE REQUIREMENT THAT STEPS SHALL BE CUT INTO THE EXISTING SLOPE BEFORE THE CONSTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

DRAWN	02-15-89
REVISED	05-07-08
REVISED	10-21-21
REVISED	05-27-22

STD. 9-25

### WIDE LOAD SIGN



W12-1103 (48 X 48)  
SERIES D ALPHABET, NO BORDER,  
BLACK ON WHITE

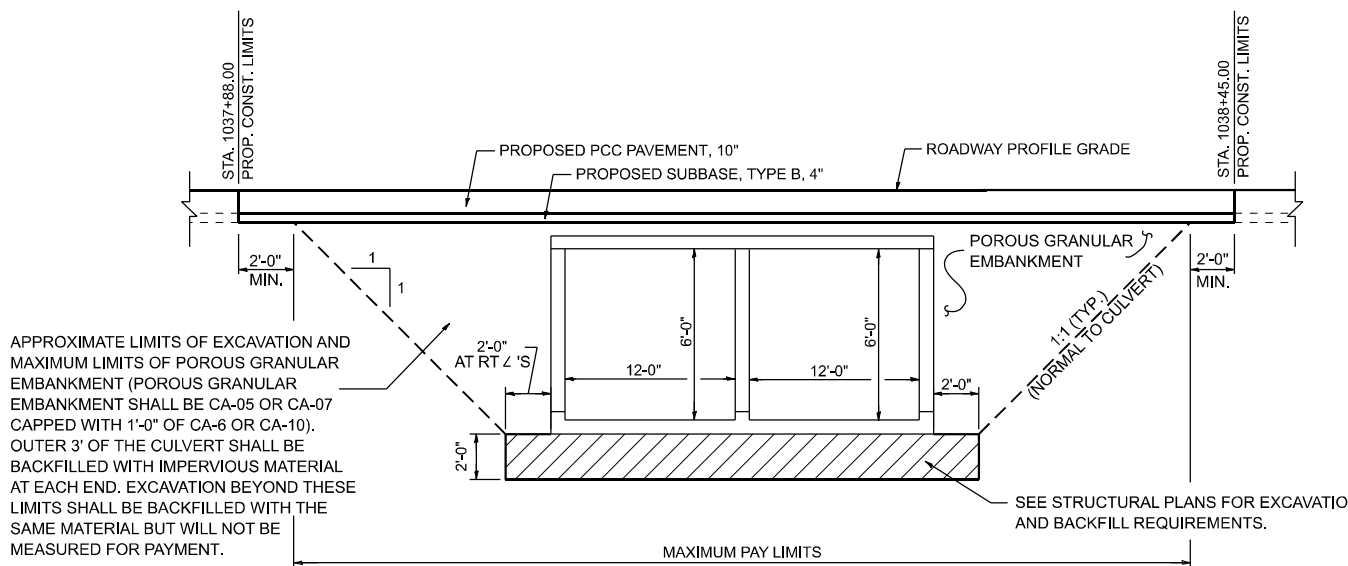
### NOTES

THE CONTRACTOR SHALL FURNISH THE POST AND ERECT THE SIGN AT THE NECESSARY LOCATION AS DIRECTED BY THE ENGINEER. THE SIGN SHALL BE POST MOUNTED.

THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE, AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, AND NO OTHER COMPENSATION WILL BE ALLOWED.

FOR WORK ON ALL STRUCTURES, THE WIDTH SHOWN ON THE W12-1103 SIGN SHALL BE 9'-6" OR DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

### GRANULAR CULVERT BACKFILL DETAIL



APPROXIMATE LIMITS OF EXCAVATION AND MAXIMUM LIMITS OF POROUS GRANULAR EMBANKMENT (POROUS GRANULAR EMBANKMENT SHALL BE CA-05 OR CA-07 CAPPED WITH 1'-0" OF CA-6 OR CA-10). OUTER 3' OF THE CULVERT SHALL BE BACKFILLED WITH IMPERVIOUS MATERIAL AT EACH END. EXCAVATION BEYOND THESE LIMITS SHALL BE BACKFILLED WITH THE SAME MATERIAL BUT WILL NOT BE MEASURED FOR PAYMENT.

SEE STRUCTURAL PLANS FOR EXCAVATION AND BACKFILL REQUIREMENTS.

MODEL: D9 Standards (Sheet)  
FILE NAME: I:\DOT\220661\0\Drawings\Roadway\CADD\_Sheets\0975718.dwg  
USER: bpe  
DATE: 3/25/2024  
TIME: 11:35:11 AM  
PROJECT: ILLINOIS  
SHEET NO.: 47

USER NAME	= Blake Young	DESIGNED	-	REVISED	-
DRAWN	-	CHECKED	-	REVISED	-
PLOT SCALE	= 0.16666667 1/ in.	DATE	-	REVISED	-
PLOT DATE	= 3/25/2024				

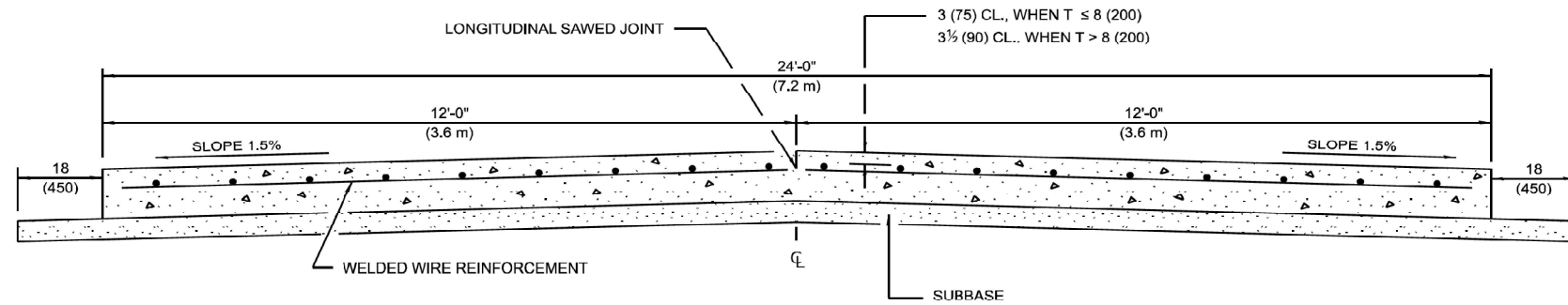
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. 881 (US ROUTE 45)  
DETAILS - D9 STANDARDS

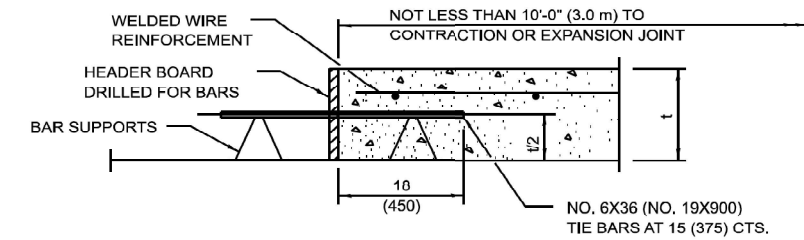
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	47
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

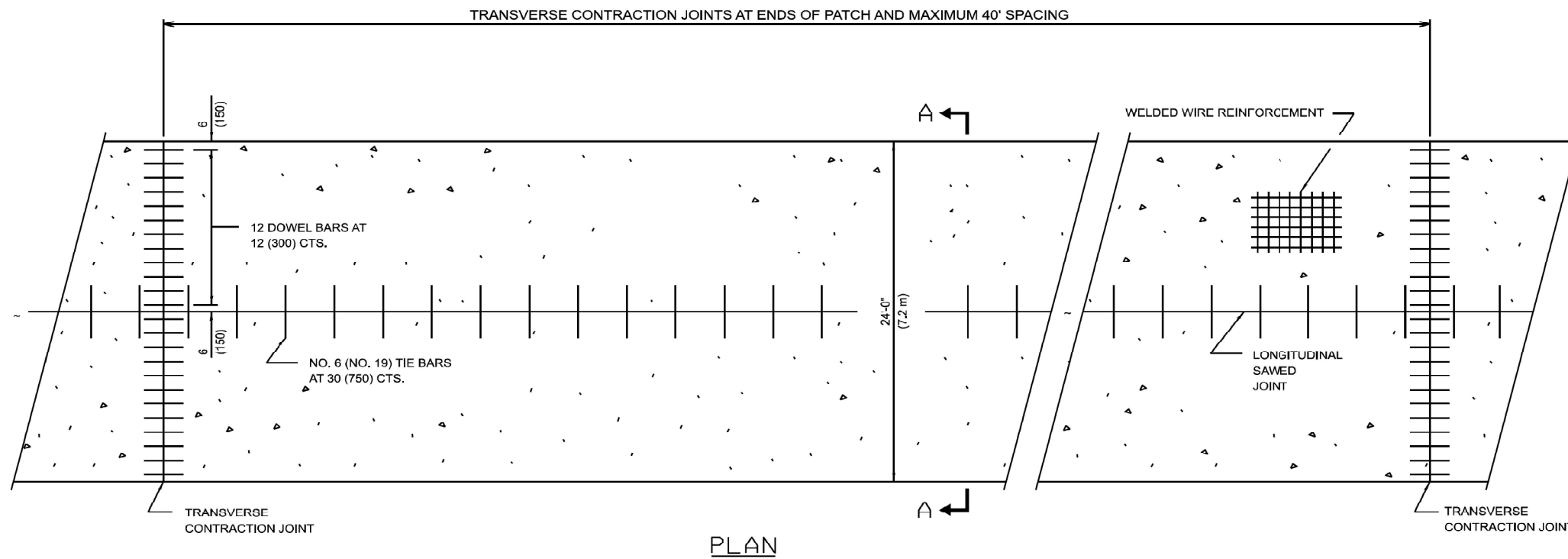
## 24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



**SECTION A-A**  
(TYPICAL 2-LANE WITH SHOULDERS)



**TRANSVERSE CONSTRUCTION JOINT**  
(IF NEEDED PER STANDARD SPECIFICATIONS)



**PLAN**

**GENERAL NOTES**

SEE STANDARD 420001 FOR DETAILS NOT SHOWN.

SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ACTUAL DIMENSIONS TO MATCH FIELD CONDITIONS AND CONSTRUCTION METHODS.

MODEL: 44001.DWG  
FILE NAME: 811.DWG

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
DRAWN - _____	CHECKED - _____	REVISED - _____
PLOT SCALE = \$\$SCALE\$	DATE - _____	REVISED - _____
PLOT DATE = \$DATES		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

F.A.P. 881 (US ROUTE 45)  
DETAILS - D9 STANDARDS

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	48
CONTRACT NO. 78718			ILLINOIS FED. AID PROJECT	

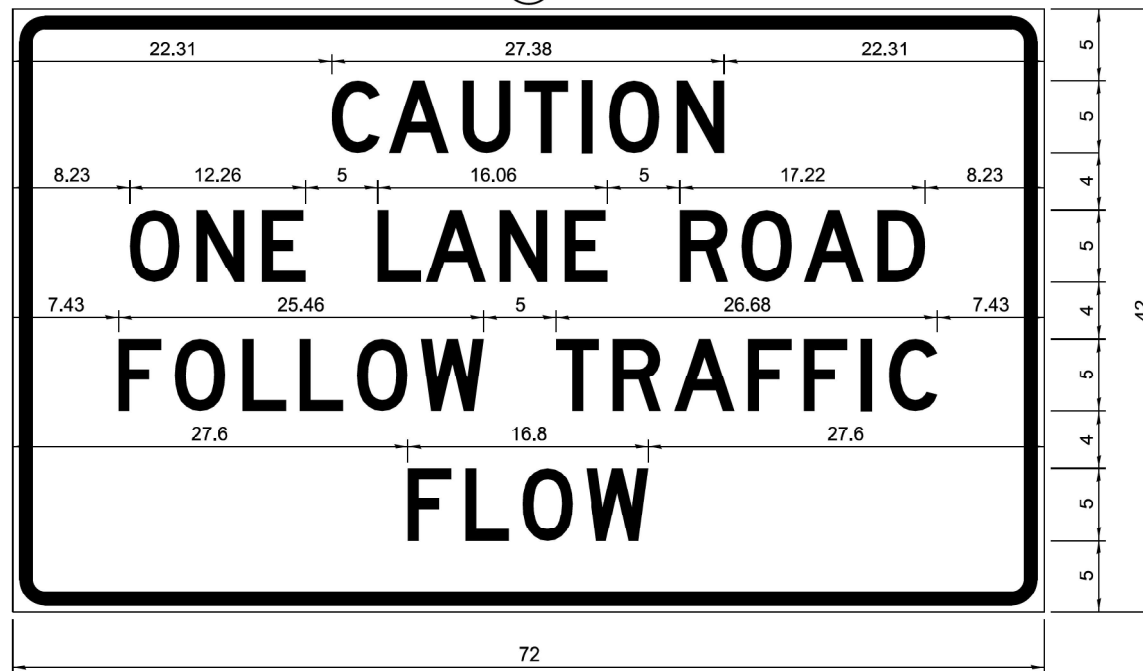
DRAWN	11-09-17
REVISED	07-23-18
REVISED	10-21-21
REVISED	05-04-22

STD. 9-13



**ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS**

2



COLOR      LEGEND AND BORDER      BLACK      NON-REFLECTORIZED  
  BACKGROUND      ORANGE      REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;  
[CAUTION] D; [ONE LANE ROAD] D;  
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

**Table Of Widths And Spaces**

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

**GENERAL NOTES**

- All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.
- All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.
- Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.
- All dimensions are in inches unless otherwise noted.

DRAWN	3-2-16 D2
REVISED	03-12-24
REVISED	
REVISED	

MODEL: I40D9L4M1ES  
FILE NAME: 81E1E5

Sign not to scale

STD. 9-34

USER NAME	= \$USERS	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= \$\$SCALE\$	CHECKED	-	REVISED	-
PLOT DATE	= \$DATES	DATE	-	REVISED	-

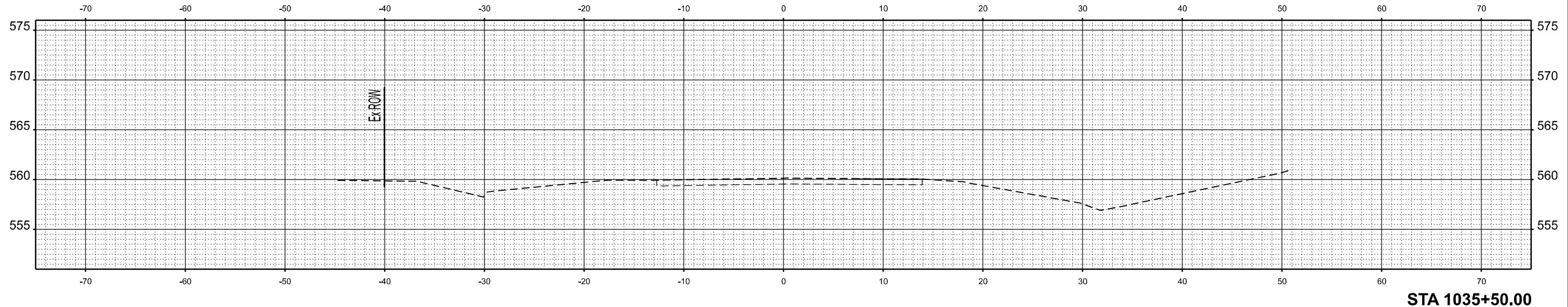
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. 881 (US ROUTE 45)  
DETAILS - D9 STANDARDS

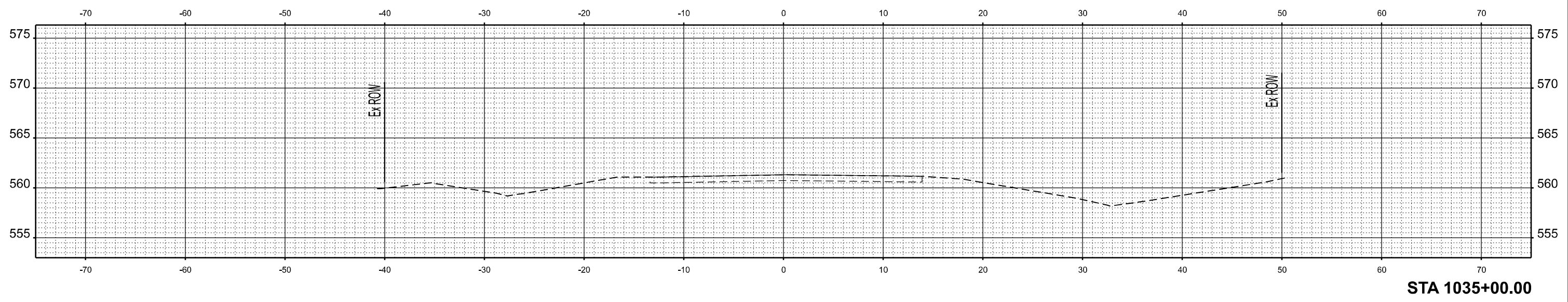
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	49
			CONTRACT NO. 78718	
ILLINOIS   FED. AID PROJECT				

MODEL: SHIT\_US\_01  
 FILE NAME: I:\DOT\220681\100\HW\_04\Draw\Roadway\CADD\_Sheets\0978718\cross.dgn



STA 1035+50.00



STA 1035+00.00



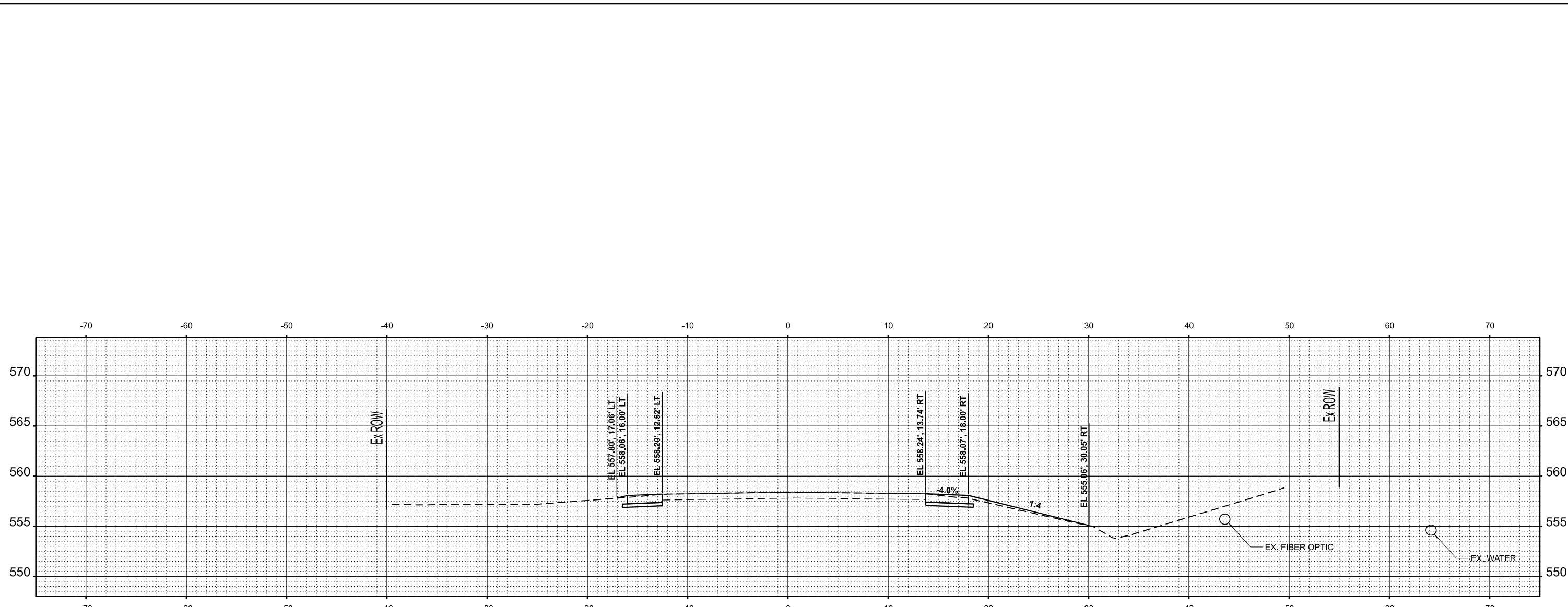
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

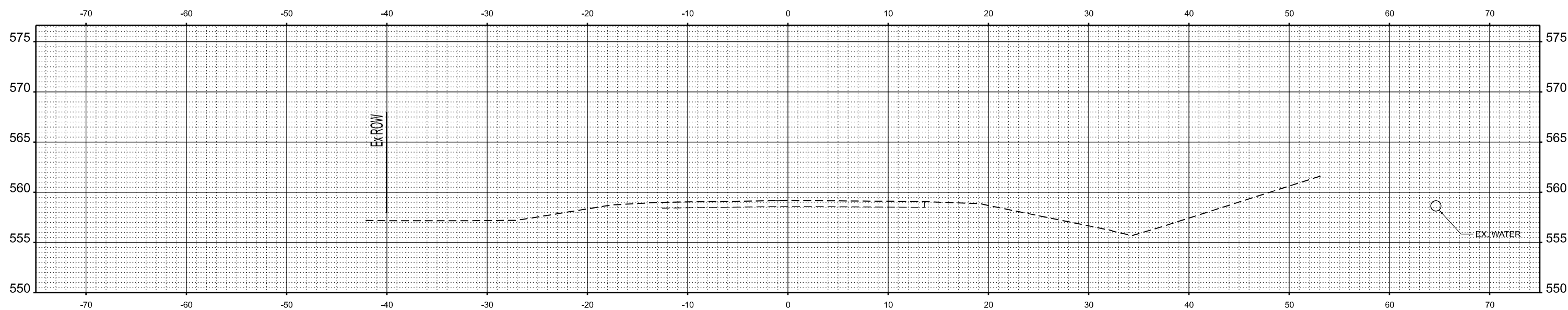
F.A.P. 881 (U.S. ROUTE 45)  
 CROSS SECTIONS

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

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 50
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1036+50.00



STA 1036+00.00

MODEL: SHT\_15\_039  
 FILE NAME: L:\DOT\2024\881\1036\1036+00.00\1036+00.00\_Sht15\_039.dwg



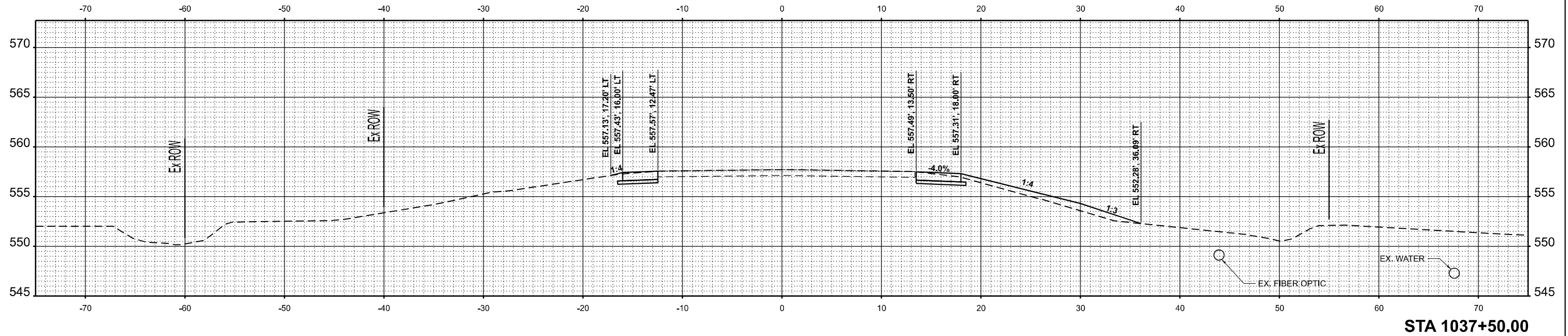
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

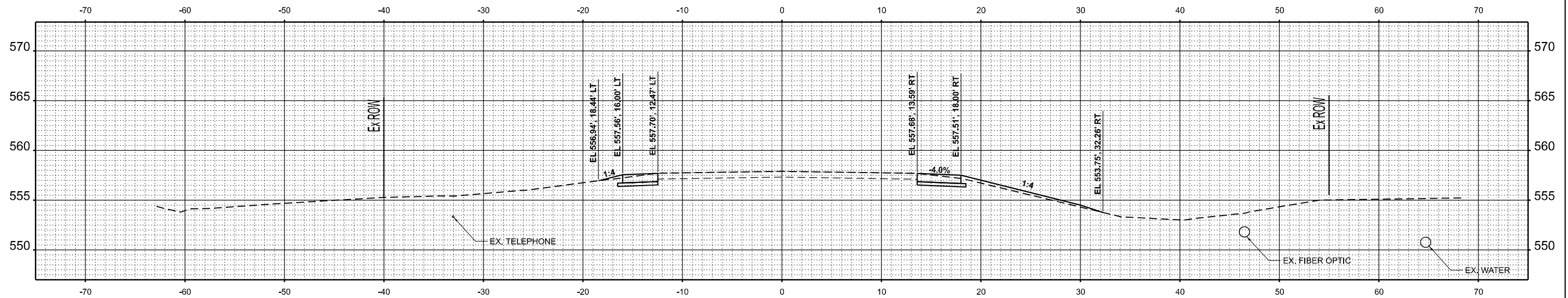
F.A.P. 881 (U.S. ROUTE 45)  
 CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	51
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1037+50.00



STA 1037+00.00

MODEL: SUT\_N5\_033  
 FILE NAME: I:\DOT\2024\81\_U.S.Route\Roadway\CADD\_Sheets\0978718.mxd.dgn



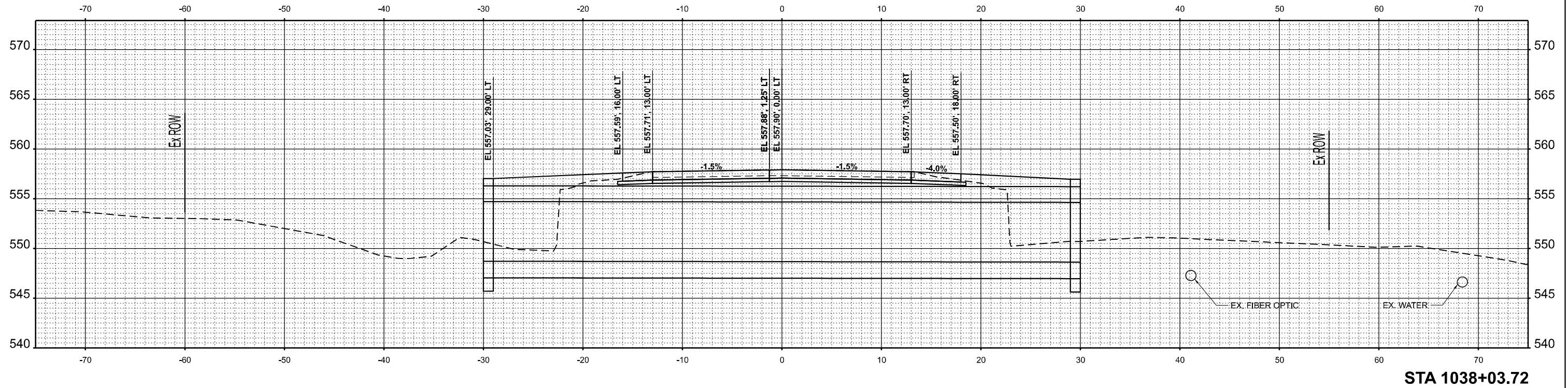
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

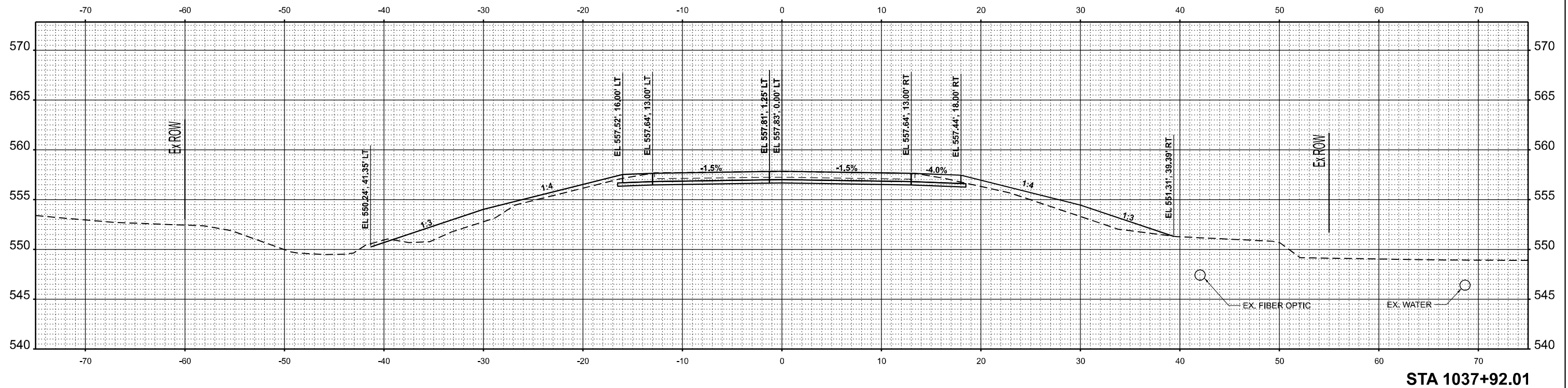
**F.A.P. 881 (U.S. ROUTE 45)  
CROSS SECTIONS**

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

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 52
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1038+03.72



STA 1037+92.01

MODEL: SHT\_15\_034  
FILE NAME: I:\DOT\2024\881\030\W0\_04\Draw\Roadway\CADD\_Sheets\0378718.mxd.dgn



USER NAME = byoung  
PLOT SCALE = 0.16660000' / in.  
PLOT DATE = 3/25/2024

DESIGNED - \$pnpr\$  
DRAWN - \$pnpr\$  
CHECKED - \$pnpr\$  
DATE - \$submitdate\$

REVISED -  
REVISED -  
REVISED -  
REVISED -

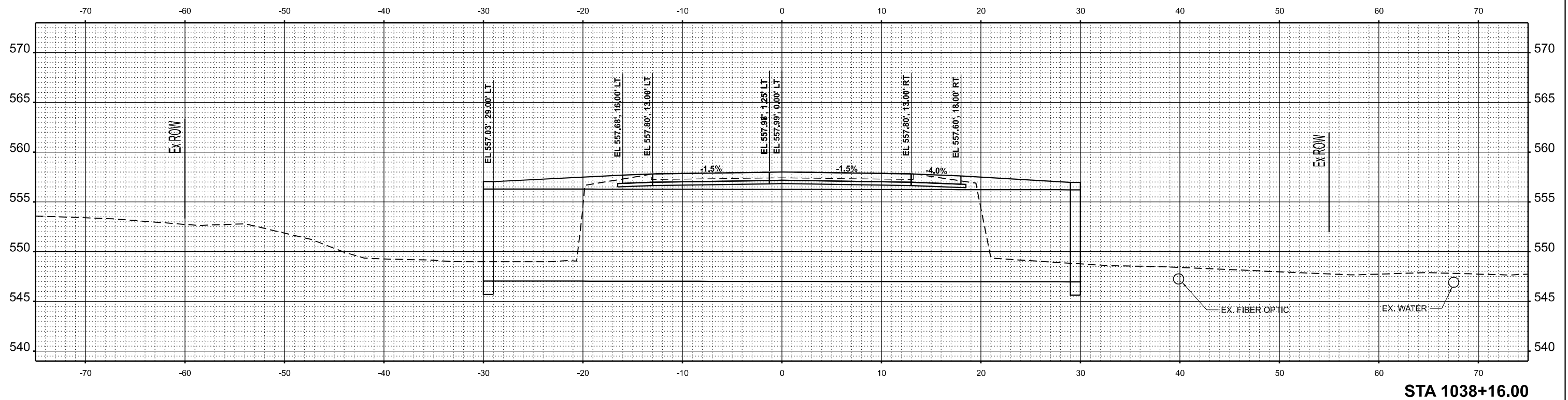
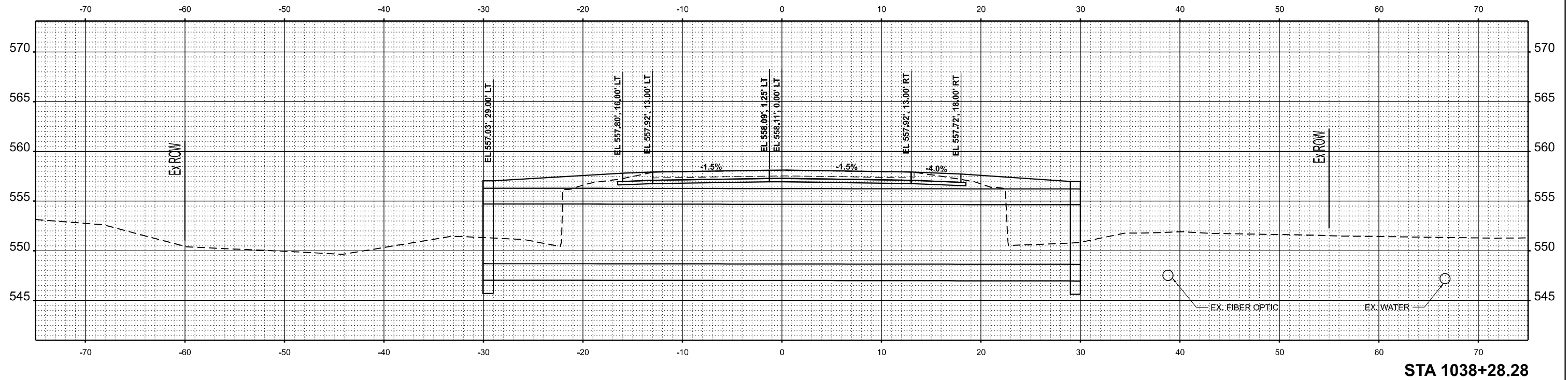
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. 881 (U.S. ROUTE 45)  
CROSS SECTIONS

SCALE: 1"=5'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	53
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



MODEL: SHIT\_VS\_015  
 FILE NAME: I:\DOT\2024\1038\1038+16.00\1038+16.00\1038+16.00.dwg



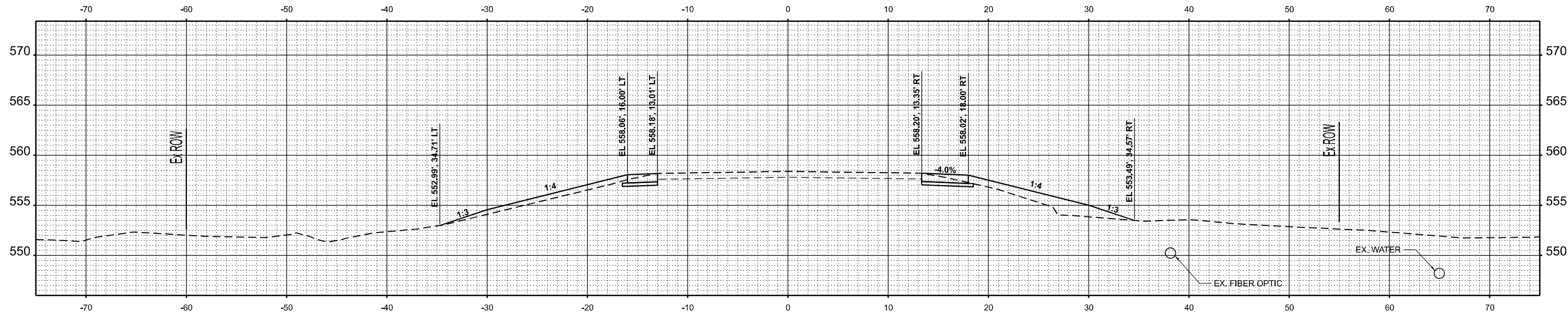
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

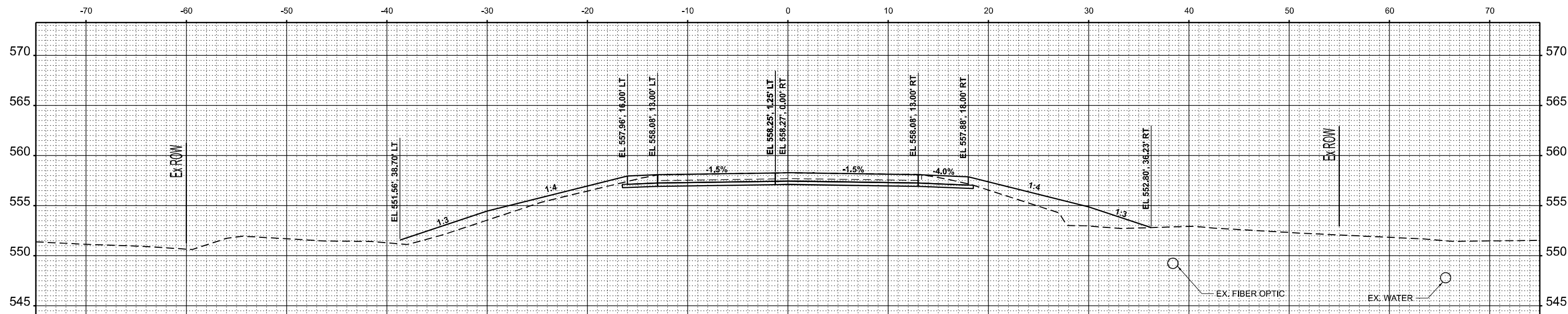
F.A.P. 881 (U.S. ROUTE 45)  
CROSS SECTIONS

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

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 54
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1038+50.00



STA 1038+41.99

MODEL: SHT\_15\_015  
 FILE NAME: I:\DOT\2024\881\030\HW\_04\Draw\Roadway\CADD\_Sheets\0978718\cxs3.dgn



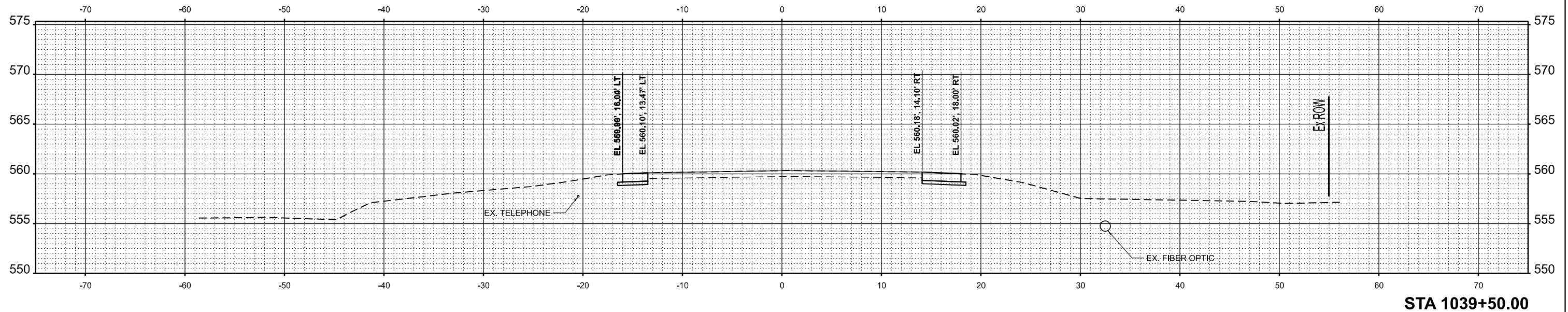
USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

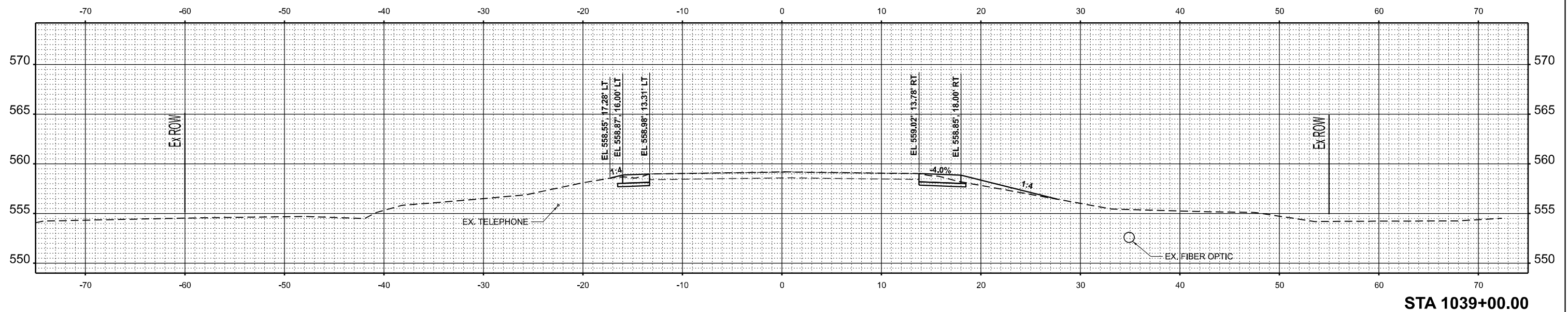
F.A.P. 881 (U.S. ROUTE 45)  
 CROSS SECTIONS

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

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 55
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				



STA 1039+50.00



STA 1039+00.00

MODEL: SHT\_15\_017  
 FILE NAME: L:\DOT\2024\1039\103900\103900\_01D\Draw\Roadway\CADD\_Sheets\DOT2024\103900.dwg



USER NAME = byoung  
 PLOT SCALE = 0.16660000' / in.  
 PLOT DATE = 3/25/2024

DESIGNED - \$pnpe\$  
 DRAWN - \$pnpr\$  
 CHECKED - \$pnpc\$  
 DATE - \$submitdate\$

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

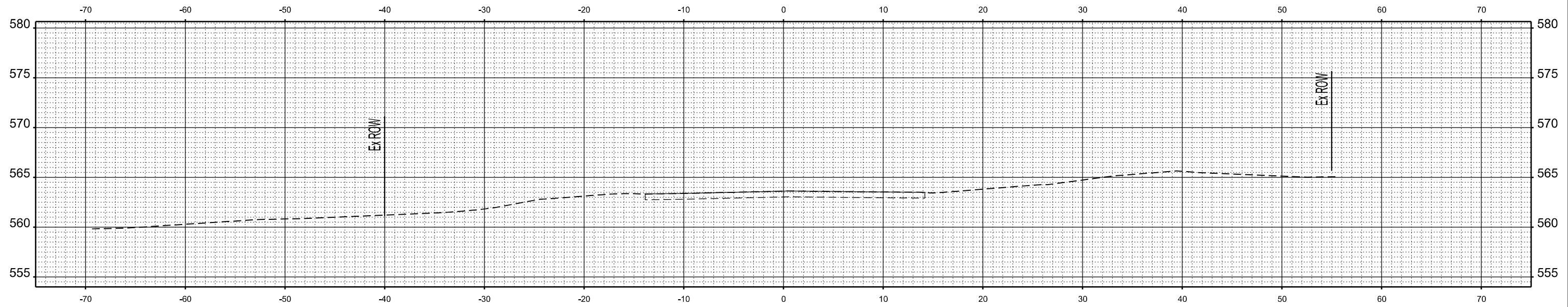
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.P. 881 (U.S. ROUTE 45)  
 CROSS SECTIONS

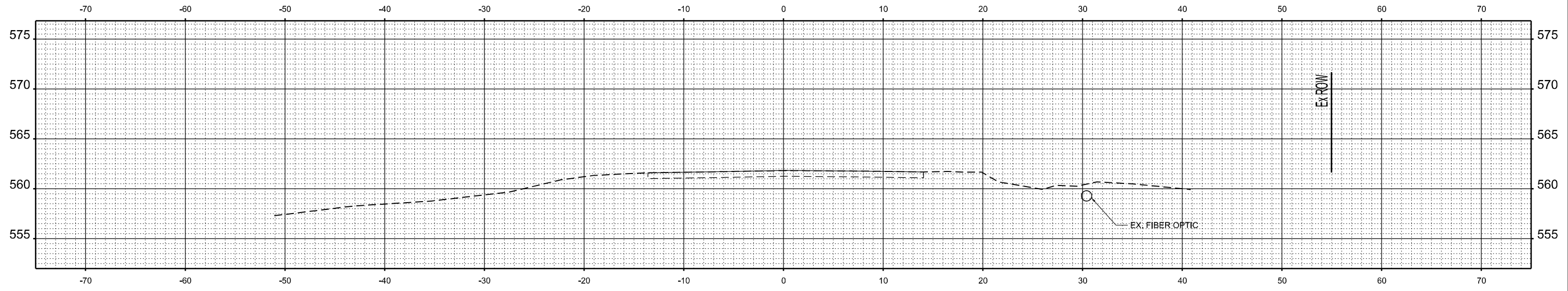
SCALE: 1"=5'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	35(B-3)	JOHNSON	58	56
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				





STA 1040+50.00



STA 1040+00.00

MODEL: SHIT\_VS\_039  
 FILE NAME: L:\DOT\2024\81\_U.S.Route45\_CADD\_Sheets\DOT818.ctb



USER NAME = byoung	DESIGNED - \$pnpr\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpr\$	REVISED -
PLOT SCALE = 0.1666000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

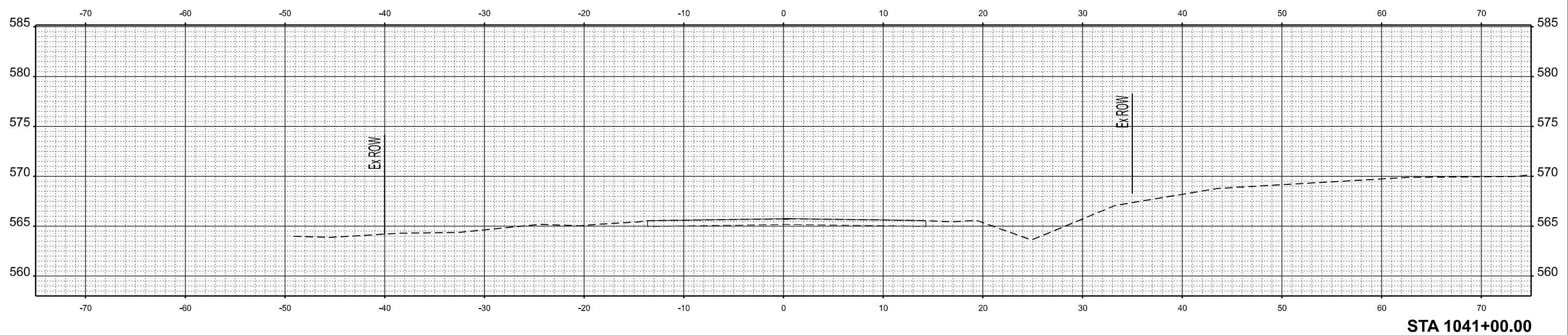
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (U.S. ROUTE 45)  
CROSS SECTIONS**

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

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 57
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				

MODEL: S:\IT\AS\_039  
 FILE NAME: L:\DOT\2024\81\1041\1041+00\Roadway\CADD\_Sheets\0978718-1041+00.dgn



USER NAME = byoung	DESIGNED - \$pnpe\$	REVISED -
DRAWN - \$pnpr\$	CHECKED - \$pnpc\$	REVISED -
PLOT SCALE = 0.16660000' / in.	DATE - \$submitdate\$	REVISED -
PLOT DATE = 3/25/2024		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 881 (U.S. ROUTE 45)  
 CROSS SECTIONS**

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

F.A.P. RTE. 881	SECTION 35(B-3)	COUNTY JOHNSON	TOTAL SHEETS 58	SHEET NO. 58
CONTRACT NO. 78718				
ILLINOIS FED. AID PROJECT				