

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-11

TRAFFIC DATA

2025 ADT = 5,620
2045 ADT = 6,860
PV% = 92.27%
SU% = 3.13%
MU% = 4.59%

TOWNSHIPS

DESOTO

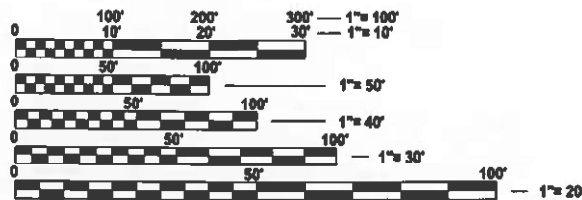
COORDINATE SYSTEM : ESPG: 102671 NAD 1983 STATE
PLANE ILLINOIS EAST FIPS 1201

POSTED SPEED : 55 MPH

BRIDGE REPLACEMENT OVER C.N.I.C. R.R.
EXISTING SN 039-0052
PROPOSED SN 039-0084
STA. 430+51.12 (US 51) = MILE POST 0299.430
(C.N.I.C. R.R.)
THREE SPAN AT 177'-0" BACK TO BACK ABUTMENTS
29°37'40" SKEW TO C.N.I.C. R.R.

BEGIN IMPROVEMENTS
STA. 424+96.19

STATION EQUATION:
STA. 424+59.77 BK =
STA. 424+61.44 AH



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

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

PROJECT MANAGER: EHREN KIRBY
PROJECT ENGINEER: TWM

CONTRACT NO. 78937

TIMOTHY B. PADGETT, P.E. EXPIRATION DATE
LICENSE NO. 062-049162 11-30-2025
SEAL COVERS SHEETS: 1-59, 61-88



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 322 (US 51)
SECTION 3VB-3
PROJECT NHPP-W160(145)
BRIDGE REPLACEMENT
JACKSON COUNTY

C-99-043-22

R1W



SCALE: 1" = 3000'

GROSS LENGTH = 1150.59 FT. = 0.218 MILE
NET LENGTH = 863.15 FT. = 0.163 MILE

END IMPROVEMENTS
STA. 436+12.03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	1
ILLINOIS CONTRACT NO. 78937				

D-99-031-22



LOCATION OF SECTION INDICATED THUS: -

PLANS PREPARED BY:



4940 Old Collinsville Road
Swansea, Illinois 62226
Tel: 618.624.4488
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Illinois Professional
Design Firm
No. 184-001220
License Expires: 4/30/2027
ILLINOIS - MISSOURI - TENNESSEE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 29 20 25

Lora S. Bensinger

REGION FIVE ENGINEER

December 5 20 25

See E.A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

December 5 20 25

Director of Highways Project Implementation

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OF THE STATE OF ILLINOIS

MODEL: Default
FILE NAME: D:\2025\20250101\78937-1\TwinCAD Sheets\0278937-1\Signature.dgn
US 51 over ICDR Bridge Replacement (Phase III) CADD - DWG-17 TwinCAD Sheets\0278937-1\Signature.dgn



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USER NAME	= bdbf-arz
DESIGNED	- TBP
DRAWN	- BAB
CHECKED	- SJK
DATE	- 5/2025
REVIS	-
REVIS	-
REVIS	-

PLOT SCALE	= 2.000" = 1 in.
PLOT DATE	= 7/25/2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3V8-3	JACKSON	125	2
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

Prepared By: *Jordan Poe*
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *Nancy Keel HSE*
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Con Nels*
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *Z. C. C.*
DISTRICT OPERATIONS ENGINEER

Examined By: _____
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *Busswith*
DISTRICT CONSTRUCTION ENGINEER

Examined By: *Aam Tang*
DISTRICT MATERIALS ENGINEER

GENERAL NOTES

1.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT:

2.016 TONS/CU. YD.

ALL AGGREGATE:

2.05 TONS/CU. YD.

RIPRAP:

1.50 TONS/ CU. YD.
2.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH AFTER REMOVAL OF STAGE 2 AND HMA SURFACE COURSE.
3.

LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER THE HMA SURFACE COURSE.
4.

EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
5.

REVISE STANDARD SPECIFICATIONS ARTICLE 107.12, PARAGRAPH 5, LAST SENTENCE TO READ: "ALL OTHER RAILROAD FLAGGER COSTS WILL BE INCURRED BY THE DEPARTMENT ACCORDING TO ARTICLE 109.05."
6.

NO PINNING OF TEMPORARY CONCRETE BARRIER ALLOWED IN THE NEW BRIDGE DECK.

COMMITMENTS

1.

IDOT BUREAU OF DESIGN AND ENVIRONMENT MUST BE CONTACTED WHEN THE PRE-CONSTRUCTION CONFERENCE IS SCHEDULED SO THAT THEY CAN ATTEND. THE INDIVIDUAL TO CONTACT IS BRADLEY DAUGHERTY AT: (217) 782-7727; (BRADLEY.M.DAUGHERTY@ILLINOIS.GOV) AND THE NATURAL RESOURCES UNIT INBOX (DOT.BDE.NATURALRESOURCES-ESR@ILLINOIS.GOV).
2.

ALONG THE FAULKNER FRANKE ILLINOIS NATURE PRESERVE PROPERTY LINE (STA. 432+08.47 LT TO STA. 436+12.70 LT) PLACE HIGH VISIBILITY TEMPORARY FENCING TO AVOID IMPACTS AND RESTRICT CONTRACTOR ACCESS TO THE AREA.
3.

TREES GREATER THAN OR EQUAL TO 3" IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST AND SEPTEMBER 30TH OF ANY GIVEN YEAR.

INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-09	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
420001-11	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCMENT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATES FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/ HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

MIX REQUIREMENTS

LOCATIONS	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE HOT-MIX ASPHALT SHOULDERS 1 1/4"	HOT-MIX ASPHALT BINDER COURSE (VARIABLE DEPTH) HOT-MIX ASPHALT SHOULDERS (VARIABLE DEPTH) HOT-MIX ASPHALT BASE COURSE 8 3/4"	HOT-MIX ASPHALT SHOULDERS 1 1/2" HOT-MIX ASPHALT SHOULDERS 6"
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N30
PG:	PG64-22	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0% 70 GYRATION DESIGN	4.0% 70 GYRATION DESIGN	4.0% 70 GYRATION DESIGN	4.0% 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5mm	IL-9.5 FINE GRADED	IL-19.0mm	IL-9.5L
FRICTION AGGREGATE:	MIX D	NONE	NONE	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	3000 TON	3000 TON	3000 TON	3000 TON
MATERIAL TRANSFER DEVICE	NO	NO	NO	NO

LIFT THICKNESSES

8 3/4" HMA BASE COURSE
2 1/4" TOP LIFT
2 1/2" MIDDLE LIFT
4" BOTTOM LIFT

HMA BINDER, VARIABLE DEPTH AND HMA SHOULDERS, VARIABLE DEPTH
MAX LIFT = 4"

REV - MS

MODEL: Default
FILE NAME: P:\2022\2210197A-US 51 over ICBR Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tran\CAD Sheets\DW78937-sht-genmode.dgn



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USR NAME =	bbillhartz	DESIGNED =	TBP	REVISED =	
		DRAWN =	BAB	REVISED =	
PLOT SCALE =	40.000' / in.	CHECKED =	SJK	REVISED =	
PLOT DATE =	8/21/2025	DATE =	5/2025	REVISED =	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS,
HIGHWAY STANDARDS & COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	3
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL Default
FILE NAME: D:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD_Sheets\078937-5ht500.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				JACKSON
				80% FED / 20% STATE
				BRIDGE REPLACEMENT
				0010
				RURAL
20100500	TREE REMOVAL, ACRES	ACRE	1.5	1.5
20200100	EARTH EXCAVATION	CU YD	209	209
20400100	BORROW EXCAVATION	CU YD	10879	10879
25000210	SEEDING, CLASS 2A	ACRE	2.75	2.75
25000350	SEEDING, CLASS 7	ACRE	2.75	2.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	248	248
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	248	248
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	248	248
25000700	AGRICULTURAL GROUND LIMESTONE	TON	6	6
25100630	EROSION CONTROL BLANKET	SQ YD	13474	13474
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	557	557
28000400	PERIMETER EROSION BARRIER	FOOT	2947	2947
28100107	STONE RIPRAP, CLASS A4	SQ YD	256	256
28200200	FILTER FABRIC	SQ YD	256	256



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DATE - 5/2025

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REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	4
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

MODEL Default
FILE NAME: D:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 TranCAD_Sheets\078937.shx500.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				JACKSON
				80% FED / 20% STATE
				BRIDGE REPLACEMENT
				0010
				RURAL
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	45	45
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	139	139
35300305	PORTLAND CEMENT CONCRETE BASE COURSE 8 1/4"	SQ YD	1290	1290
35501319	HOT-MIX ASPHALT BASE COURSE, 8 3/4"	SQ YD	782	782
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	3001	3001
40600370	LONGITUDINAL JOINT SEALANT	FOOT	828	828
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	56	56
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	20	20
40600990	TEMPORARY RAMP	SQ YD	53	53
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	57	57
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1325	1325
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	187	187
42000060	WELDED WIRE REINFORCEMENT	SQ YD	143	143
44000100	PAVEMENT REMOVAL	SQ YD	252	252



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PLOT DATE = 8/21/2025

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DATE - 5/2025

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REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	5
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

MODEL Default
FILE NAME: P:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD_Sheets\078937-5ht500.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				JACKSON
				80% FED / 20% STATE
				BRIDGE REPLACEMENT
				0010
				RURAL
44000400	GUTTER REMOVAL	FOOT	1562	1562
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	18	18
44004250	PAVED SHOULDER REMOVAL	SQ YD	1129	1129
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	28	28
48203002	HOT-MIX ASPHALT SHOULDERS, 1 1/4"	SQ YD	201	201
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SQ YD	1473	1473
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	401	401
48203100	HOT-MIX ASPHALT SHOULDERS	TON	310	310
50100200	REMOVAL OF EXISTING STRUCTURES	L SUM	1	1
50200100	STRUCTURE EXCAVATION	CU YD	456	456
50300225	CONCRETE STRUCTURES	CU YD	250.2	250.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	289.1	289.1
50300260	BRIDGE DECK GROOVING	SQ YD	991	991
50300300	PROTECTIVE COAT	SQ YD	1235	1235



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PLOT SCALE =	40,000 ' / in.
PLOT DATE =	8/21/2025

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DATE -	5/2025

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET 3	OF 8	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	6
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

MODEL Default
FILE NAME: D:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD_Sheets\078937-shs500.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				JACKSON
				80% FED / 20% STATE
				BRIDGE REPLACEMENT
				0010
				RURAL
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	116.8	116.8
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	5256	5256
50800105	REINFORCEMENT BARS	POUND	27040	27040
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	154310	154310
50800515	BAR SPLICERS	EACH	941	941
50800530	MECHANICAL SPLICERS	EACH	332	332
51100100	SLOPE WALL 4 INCH	SQ YD	618	618
51201610	FURNISHING STEEL PILES HP12X63	FOOT	395	395
51202305	DRIVING PILES	FOOT	395	395
51203610	TEST PILE STEEL HP12X63	EACH	2	2
51204650	PILE SHOES	EACH	12	12
51500100	NAME PLATES	EACH	1	1
* 51603000	DRILLED SHAFT IN SOIL	CU YD	59.5	59.5

* SPECIALTY ITEM

MODEL: Default
FILE NAME: P:\2022\220187A - US 51 over ICBB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 TranCAD Sheets\0978937-sht-500.dgn

				CONSTRUCTION CODE	
				JACKSON	
				80% FED / 20% STATE	
	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE REPLACEMENT
					0010
					RURAL
*	51604000	DRILLED SHAFT IN ROCK	CU YD	45.3	45.3
	52100510	ANCHOR BOLTS, 3/4"	EACH	24	24
	52100520	ANCHOR BOLTS, 1"	EACH	24	24
	52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	603	603
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	250	250
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	165	165
	60500060	REMOVING INLETS	EACH	2	2
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	475	475
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
	63200310	GUARDRAIL REMOVAL	FOOT	864	864
	64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	2177	2177
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	14

* SPECIALTY ITEM

REV - MS

MODEL Default
FILE NAME: D:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tra\CAD_Sheets\0978937-shs500.dgn

				CONSTRUCTION CODE
				JACKSON
				80% FED / 20% STATE
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	BRIDGE REPLACEMENT
				0010
				RURAL
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
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	588	588
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	312	312
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	351	351
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	4951	4951
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1488	1488



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DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET 6	OF 8 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	9
CONTRACT NO. 78937				
ILLINOIS		FED. AID PROJECT		

MODEL Default
FILE NAME: P:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD_Sheets\078937-shs500.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				JACKSON
				80% FED / 20% STATE
				BRIDGE REPLACEMENT
				0010
				RURAL
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	339	339
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1400	1400
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 73000100	WOOD SIGN SUPPORT	FOOT	34	34
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4951	4951
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	18	18
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	193	193
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1650	1650
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1
X0320051	CROSSHOLE SONIC LOGGING ACCESS DUCTS	FOOT	340	340
X0320052	CROSSHOLE SONIC LOGGING TESTING	EACH	2	2

* SPECIALTY ITEM



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CHECKED - SJK
DATE - 5/2025

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	10
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

MODEL Default
FILE NAME: P:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tra\CAD_Sheets\078937.shs500.dgn

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Ø 0042

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				JACKSON
				80% FED / 20% STATE
				BRIDGE REPLACEMENT
				0010
				RURAL
X2011001	HIGH VISIBILITY TEMPORARY FENCING	FOOT	397	397
X4201410	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)	SQ YD	238	238
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	221	221
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	606	606
X4406210	PARTIAL DEPTH REMOVAL, TYPE II, VARIABLE DEPTH	SQ YD	100	100
X5080530	BAR TERMINATORS	EACH	752	752
X6010003	PIPE DRAIN REMOVAL	FOOT	151	151
X6050065	REMOVING INLETS (SPECIAL)	EACH	2	2
X6050310	FILLING INLETS (SPECIAL)	EACH	2	2
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	28	28
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
Z0076600	TRAINEES	HOOR	1000	1000
Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	2	2
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	1000	1000

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CHECKED -	SJK
DATE -	5/2025

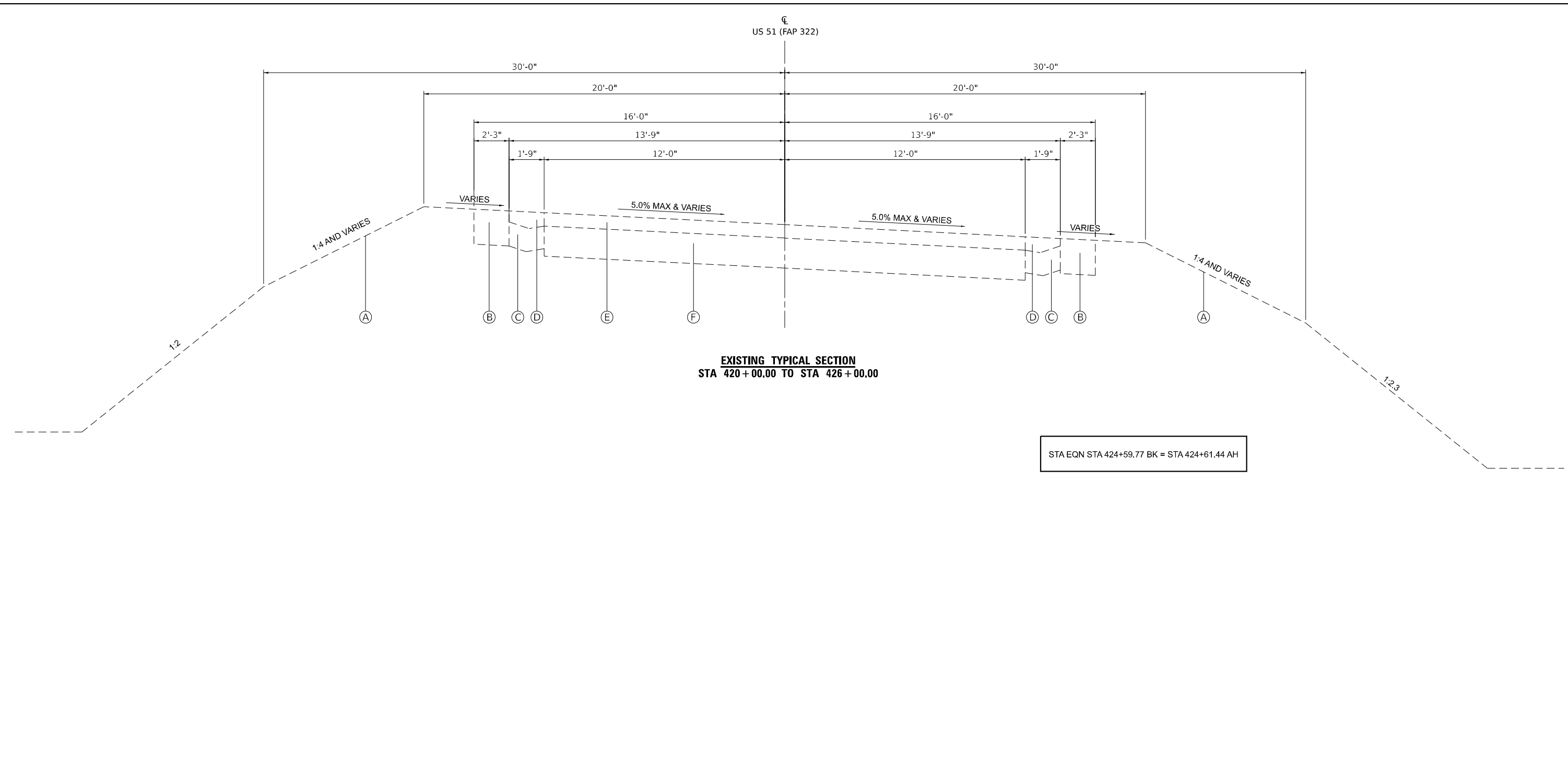
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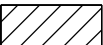
SUMMARY OF QUANTITIES

SCALE:	SHEET 8	OF 8	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	11
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION LEGEND

(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)		PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C		HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED		GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS		PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				

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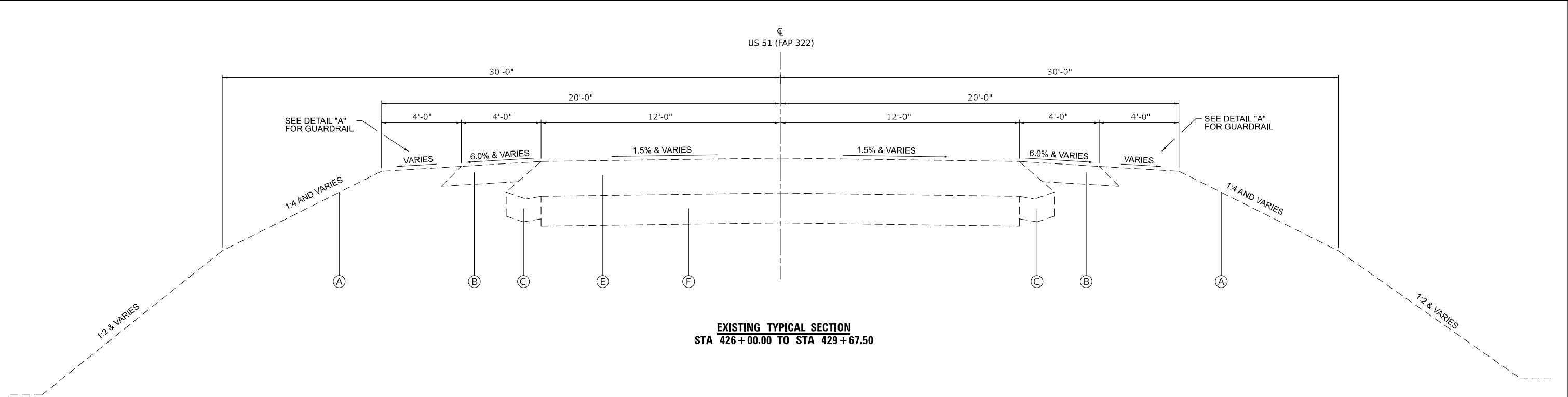
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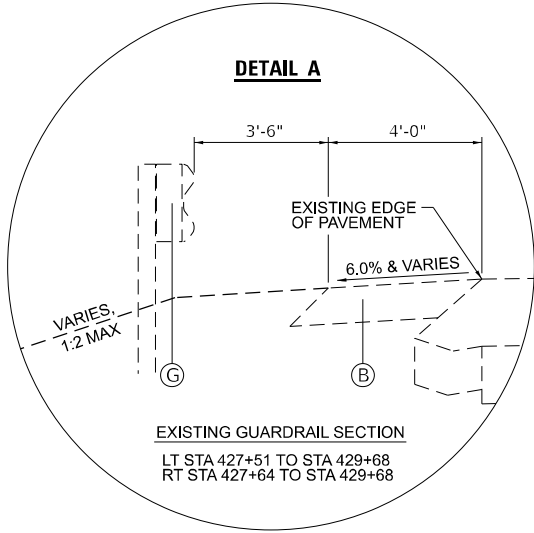
EXISTING TYPICAL SECTIONS
US 51

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	12
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
STA 426+00.00 TO STA 429+67.50



EXISTING BRIDGE
STA. 429+67.50 TO STA. 431+18.50

TYPICAL SECTION LEGEND

(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)		PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C		HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED		GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS		PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				

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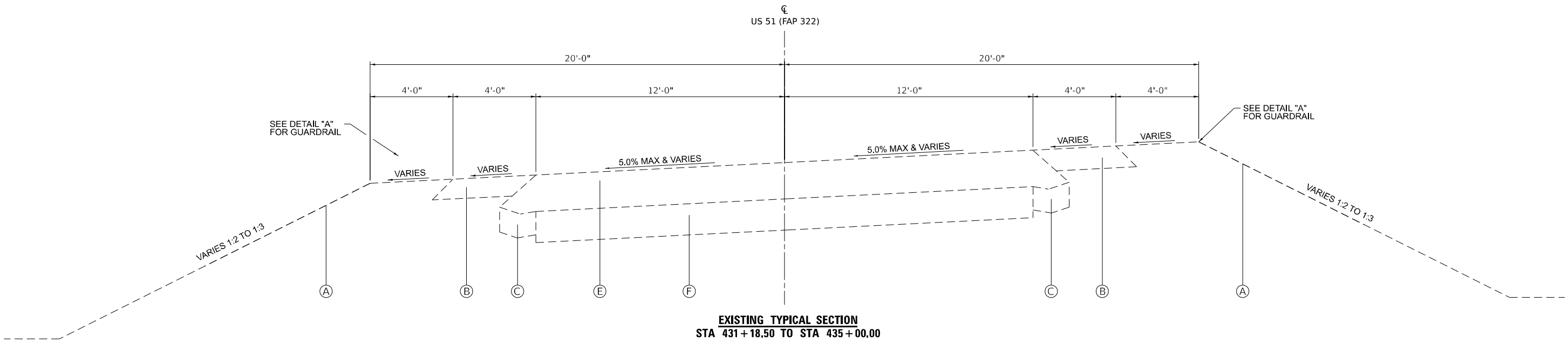
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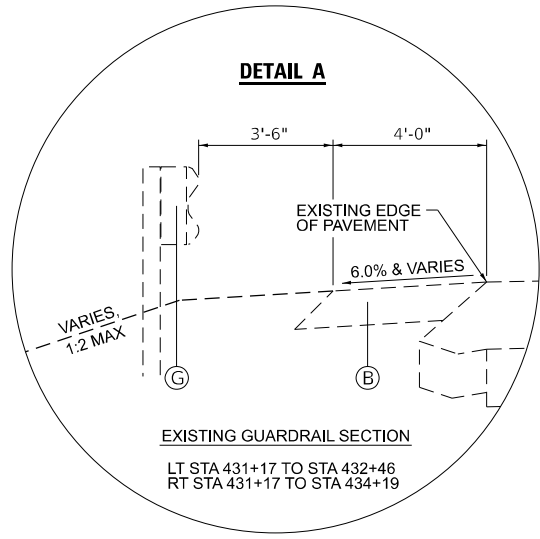
EXISTING TYPICAL SECTIONS
US 51

SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	13
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
STA 431+18.50 TO STA 435+00.00



TYPICAL SECTION LEGEND

(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)		PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C		HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED		GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS		PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				

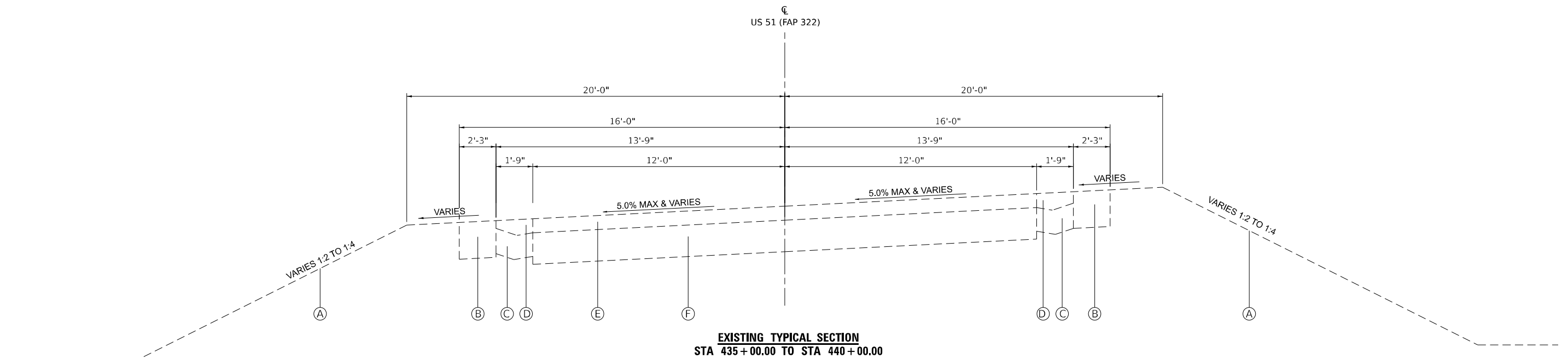
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PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

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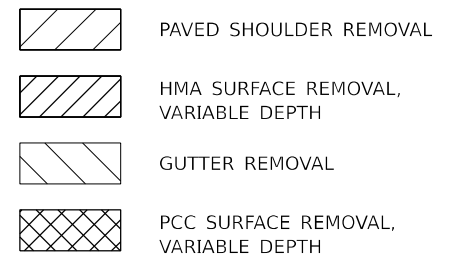
EXISTING TYPICAL SECTIONS US 51			
SCALE: N.T.S.	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	14
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

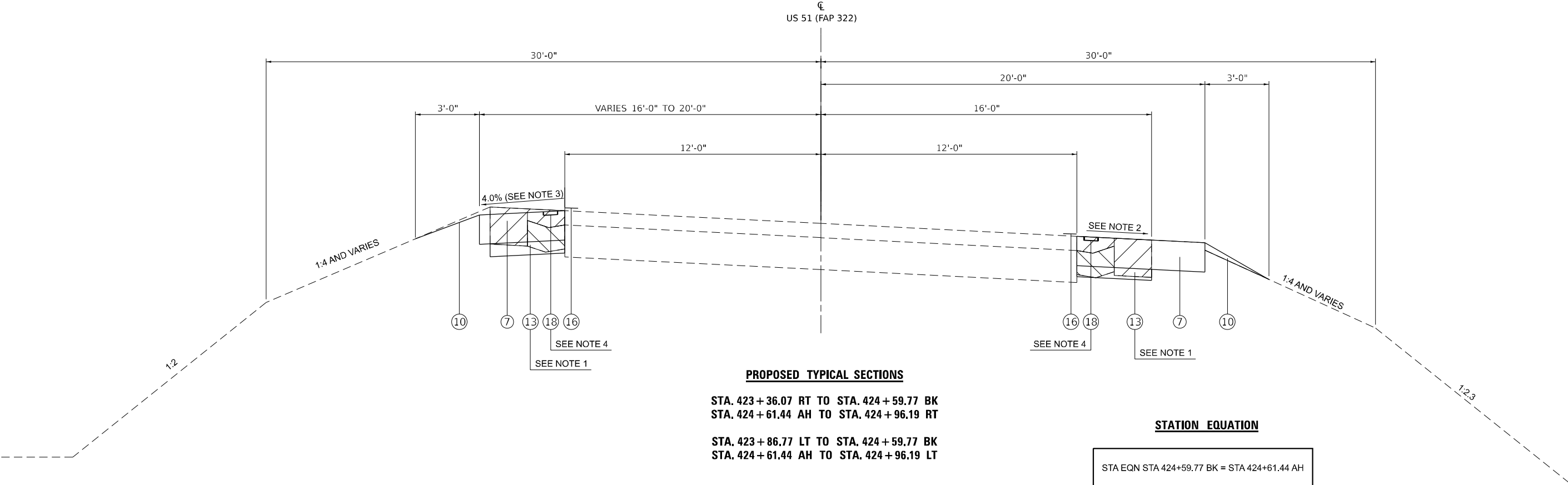


TYPICAL SECTION LEGEND

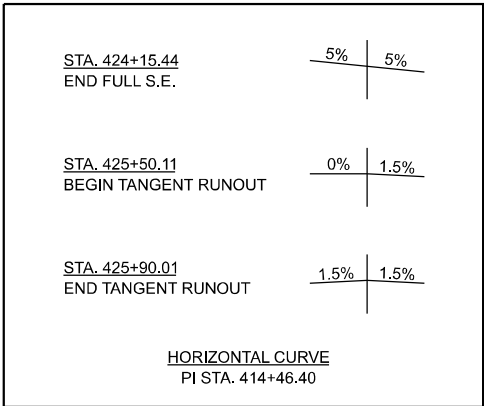
(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)		PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C		HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED		GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS		PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				



MODEL: Default
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SUPERELEVATION CHART



NOTES:

1. USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.
2. SHOULDER SLOPE SHALL MATCH ROADWAY SUPERELEVATION BUT NOT LESS THAN 4%. SEE SUPERELEVATION CHART.
3. THE ALGEBRAIC DIFFERENCE BETWEEN THE ROADWAY AND SHOULDER SLOPE SHALL NOT EXCEED 8%. SEE SUPERELEVATION CHART.
4. CONSTRUCT AFTER STAGE 3.

TYPICAL SECTION LEGEND

(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)	(Hatched Box)	PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C	(Hatched Box)	HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED	(Hatched Box)	GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	(Hatched Box)	PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				



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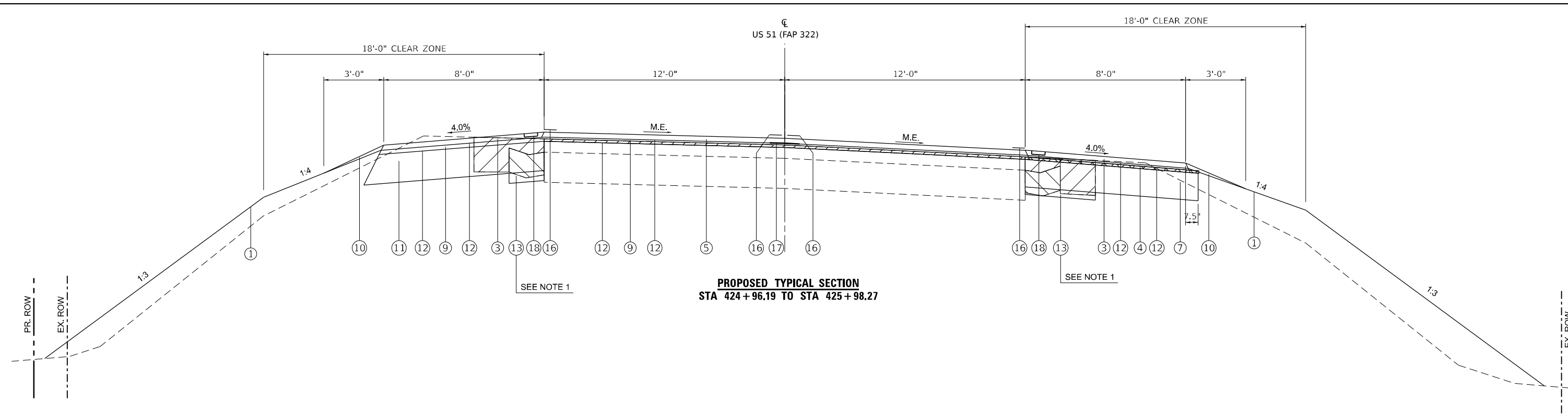
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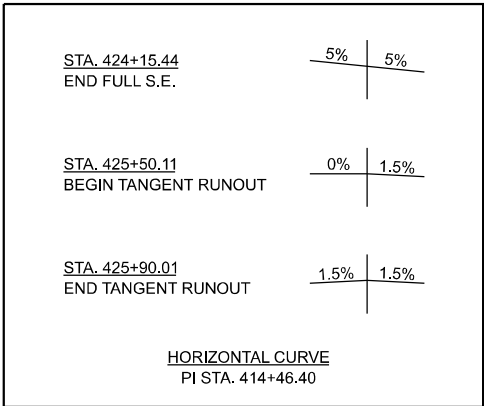
**PROPOSED TYPICAL SECTIONS
US 51**

SCALE: N.T.S. SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	16
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



SUPERELEVATION CHART



- NOTES:
1. USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.

TYPICAL SECTION LEGEND

(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)		PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C		HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED		GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS		PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				

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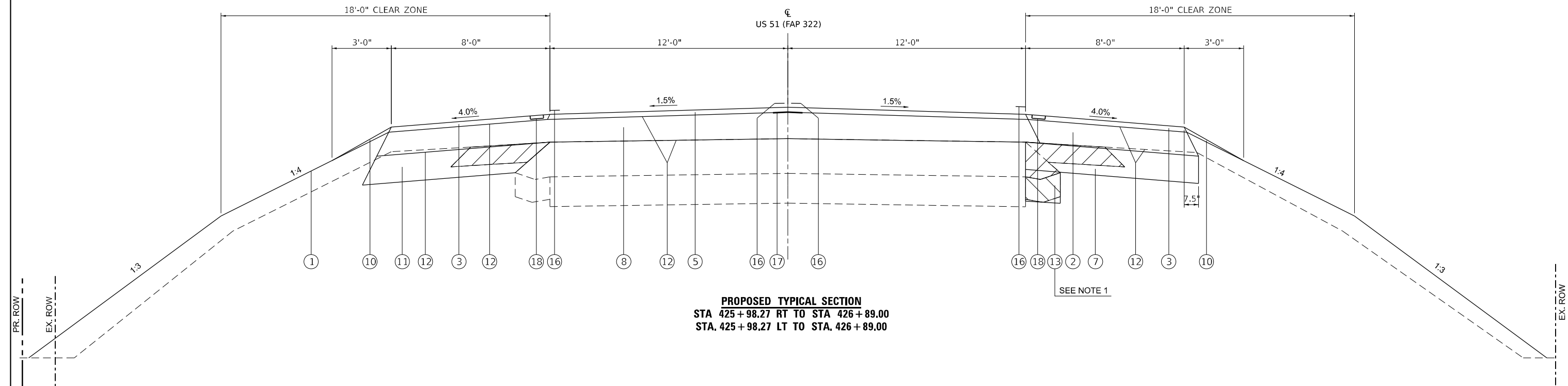
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PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

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PROPOSED TYPICAL SECTIONS US 51			
SCALE: N.T.S.	SHEET 2	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	17
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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PROPOSED TYPICAL SECTION
STA. 425+98.27 RT TO STA. 426+89.00
STA. 425+98.27 LT TO STA. 426+89.00

NOTES:

1. USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.

HMA SHOULDERS, VARIABLE DEPTH CHART

STA. 425+98.27 TO STA. 428+99.28		
1.25"	TO	15.5"

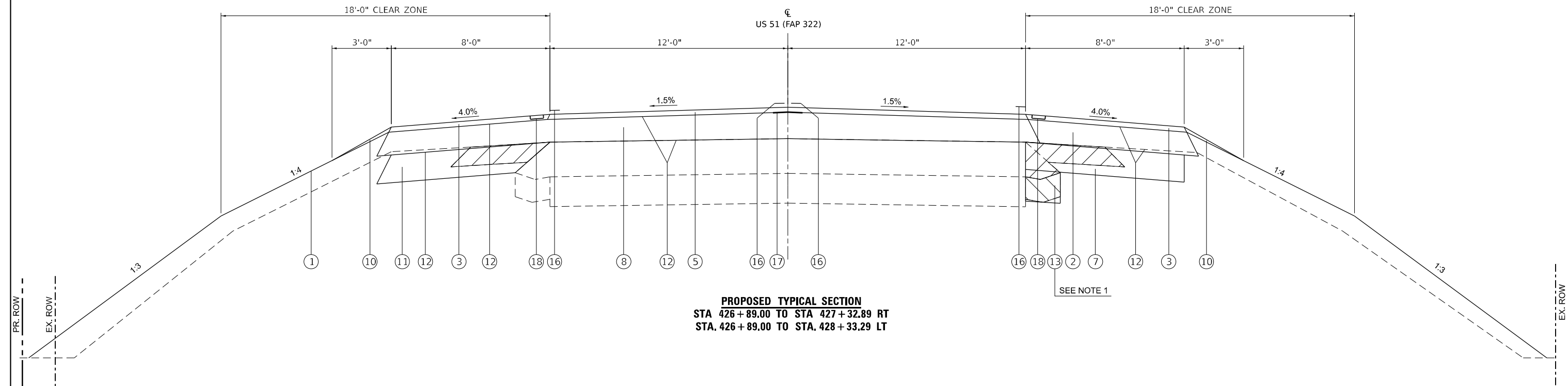
HMA BINDER COURSE, VARIABLE DEPTH CHART

STA. 425+98.27 TO STA. 428+99.28		
1.25"	TO	15.5"

TYPICAL SECTION LEGEND

(A) EX. EMBANKMENT	(1) PR. EMBANKMENT	(12) PR. BITUMINOUS MATERIALS (TACK COAT)	(Hatched) PAVED SHOULDER REMOVAL
(B) EX. 8" HMA SHOULDER	(2) PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13) PR. SUBBASE GRANULAR MATERIAL, TYPE C	(Hatched) HMA SURFACE REMOVAL, VARIABLE DEPTH
(C) EX. CONCRETE GUTTER TYPE B	(3) PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14) RESERVED	(Hatched) GUTTER REMOVAL
(D) EX. HMA SHOULDER	(4) PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15) PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	(Hatched) PCC SURFACE REMOVAL, VARIABLE DEPTH
(E) EX. HMA PAVEMENT	(5) PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16) PR. THERMOPLASTIC PAVEMENT MARKING - 4"	
(F) EX. PCC PAVEMENT	(6) PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17) PR. LONGITUDINAL JOINT SEALANT	
(G) EX. GUARDRAIL	(7) PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18) PR. SHOULDER RUMBLE STRIPS, 8"	
(H) EX. GUARDRAIL	(8) PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)		
	(9) PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"		
	(10) PR. AGGREGATE WEDGE SHOULDER, TYPE B		
	(11) PR. HOT-MIX ASPHALT BASE COURSE, 8.75"		

MODEL: Default
FILE NAME: D:\2022\2021\07A - US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 Tran\CAD_Sheets\078937-sheet\jshk.dgn



PROPOSED TYPICAL SECTION
STA 426 + 89.00 TO STA 427 + 32.89 RT
STA. 426 + 89.00 TO STA. 428 + 33.29 LT

- NOTES:
- USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.

HMA SHOULDERS, VARIABLE DEPTH

STA. 425+98.27 TO STA. 428+99.28
1.25" TO 15.5"

HMA BINDER COURSE, VARIABLE DEPTH

STA. 425+98.27 TO STA. 428+99.28
1.25" TO 15.5"

TYPICAL SECTION LEGEND

(A) EX. EMBANKMENT	(1) PR. EMBANKMENT	(12) PR. BITUMINOUS MATERIALS (TACK COAT)	(Hatched) PAVED SHOULDER REMOVAL
(B) EX. 8" HMA SHOULDER	(2) PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13) PR. SUBBASE GRANULAR MATERIAL, TYPE C	(Hatched) HMA SURFACE REMOVAL, VARIABLE DEPTH
(C) EX. CONCRETE GUTTER TYPE B	(3) PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14) RESERVED	(Hatched) GUTTER REMOVAL
(D) EX. HMA SHOULDER	(4) PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15) PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	(Hatched) PCC SURFACE REMOVAL, VARIABLE DEPTH
(E) EX. HMA PAVEMENT	(5) PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16) PR. THERMOPLASTIC PAVEMENT MARKING - 4"	
(F) EX. PCC PAVEMENT	(6) PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17) PR. LONGITUDINAL JOINT SEALANT	
(G) EX. GUARDRAIL	(7) PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18) PR. SHOULDER RUMBLE STRIPS, 8"	
(H) EX. GUARDRAIL	(8) PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)		
	(9) PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"		
	(10) PR. AGGREGATE WEDGE SHOULDER, TYPE B		
	(11) PR. HOT-MIX ASPHALT BASE COURSE, 8.75"		



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USER NAME = bbillhartz	DESIGNED - TBP	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 5,000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

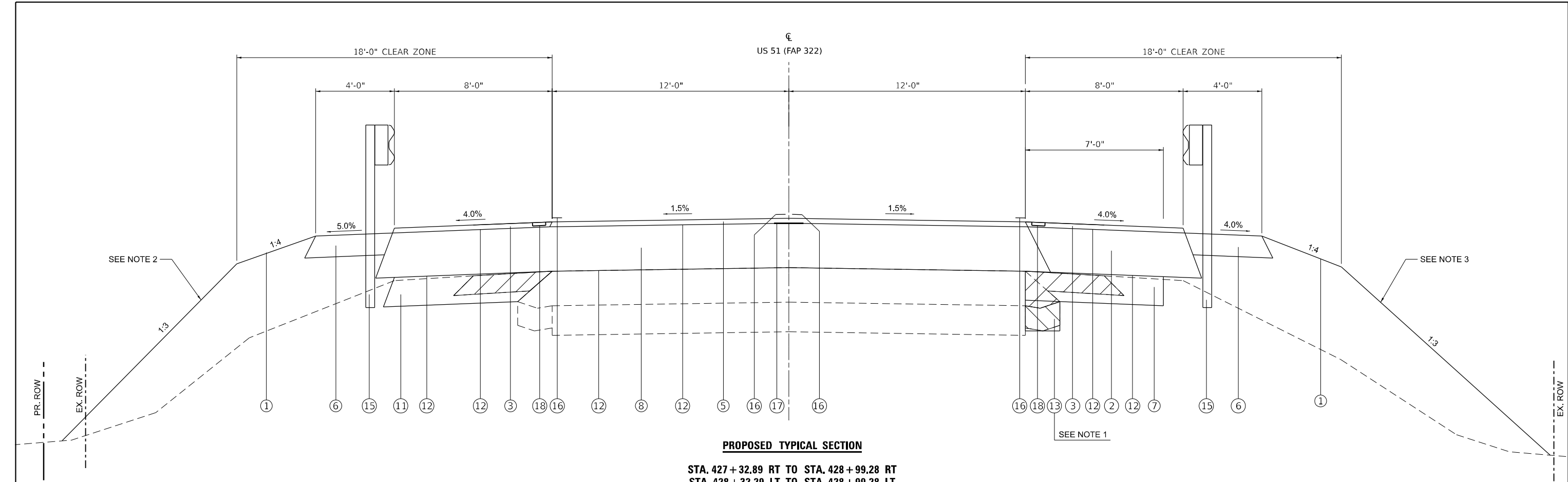
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
US 51

SCALE: N.T.S. SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	19
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: D:\2022\220127A - US 51 over ICRB Bridge Replacement (Phase II)4 CAD - DWG\4.7 Tran\CAD_Sheets\0978937-5hct\typical.dgn



PROPOSED TYPICAL SECTION

STA. 427 + 32.89 RT TO STA. 428 + 99.28 RT
STA. 428 + 32.29 LT TO STA. 428 + 99.28 LT

PR SN 039-0084

PROPOSED BRIDGE APPROACH SLABS AND CONNECTOR
PAVEMENT STA. 428+99.28 TO STA. 431+86.72

NOTES:

- USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.
- AT NORTHWEST QUADRANT OF BRIDGE (BEHIND GUARDRAIL), TRANSITION FROM 1:4/1:3 BARN ROOF SLOPES TO 1:2 SLOPES AT BACK OF ABUTMENT FROM STA. 428+78.18 TO STA. 429+70.14.
- AT SOUTHWEST QUADRANT OF THE BRIDGE (BEHIND GUARDRAIL), TRANSITION FROM 1:4/1:3 BARN ROOF SLOPES TO 1:2 SLOPES AT BACK OF ABUTMENT FROM STA. 429+14.63 TO STA. 429+39.00.

HMA SHOULDERS, VARIABLE DEPTH CHART

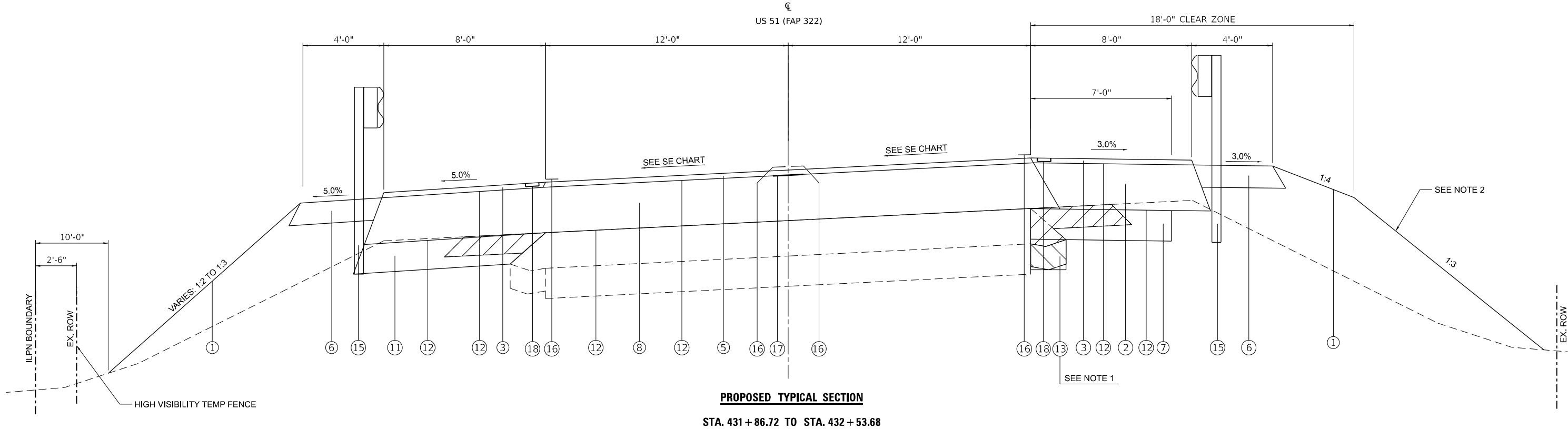
STA. 425+98.27 TO STA. 428+99.28		
1.25"	TO	15.5"

HMA BINDER COURSE, VARIABLE DEPTH CHART

STA. 425+98.27 TO STA. 428+99.28		
1.25"	TO	15.5"

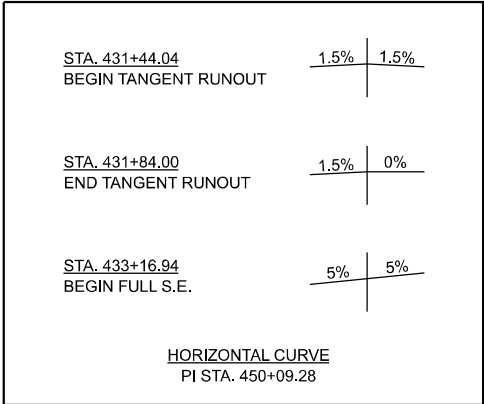
TYPICAL SECTION LEGEND

(A) EX. EMBANKMENT	(1) PR. EMBANKMENT	(12) PR. BITUMINOUS MATERIALS (TACK COAT)	PAVED SHOULDER REMOVAL
(B) EX. 8" HMA SHOULDER	(2) PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13) PR. SUBBASE GRANULAR MATERIAL, TYPE C	
(C) EX. CONCRETE GUTTER TYPE B	(3) PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14) RESERVED	HMA SURFACE REMOVAL, VARIABLE DEPTH
(D) EX. HMA SHOULDER	(4) PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15) PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	
(E) EX. HMA PAVEMENT	(5) PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16) PR. THERMOPLASTIC PAVEMENT MARKING - 4"	GUTTER REMOVAL
(F) EX. PCC PAVEMENT	(6) PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17) PR. LONGITUDINAL JOINT SEALANT	
(G) EX. GUARDRAIL	(7) PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18) PR. SHOULDER RUMBLE STRIPS, 8"	PCC SURFACE REMOVAL, VARIABLE DEPTH
(H) EX. GUARDRAIL	(8) PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)		
	(9) PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"		
	(10) PR. AGGREGATE WEDGE SHOULDER, TYPE B		
	(11) PR. HOT-MIX ASPHALT BASE COURSE, 8.75"		

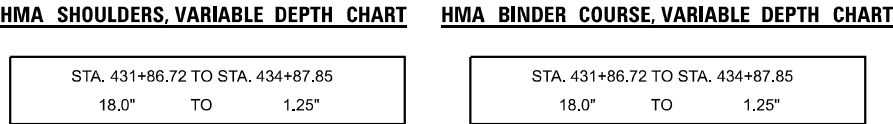


PROPOSED TYPICAL SECTION
STA. 431 + 86.72 TO STA. 432 + 53.68

SUPERELEVATION CHART



- NOTES:
- 1. USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.
 - 2. AT SOUTHEAST QUADRANT OF THE BRIDGE (BEHIND GUARDAIL), TRANSITION FROM 1:2 SLOPES TO 1:4/1:3 BARN ROOF SLOPES FROM STA. 431+15.86 TO STA. 431+48.63.



TYPICAL SECTION LEGEND

(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)		PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C		HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED		GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS		PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				

MODEL: Default
FILE NAME: D:\2022\220127A - US 51 over ICRB Bridge Replacement (Phase II) d CAD - DWG\4.7 Tran\CAD_Sheets\0978937-5hct\typical.dgn



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USER NAME = bbillhartz	DESIGNED - TBP	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 5,000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS US 51			
SCALE: N.T.S.	SHEET 6	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	21
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

$81+84.00$
 TANGENT RUNOUT

$83+16.94$
 FULL S.E.

HORIZONTAL CURVE
 PI STA. 450+09.28

1. USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.
2. SHOULDER SLOPE SHALL MATCH ROADWAY SUPERELEVATION BUT NOT LESS THAN 4%. SEE SUPERELEVATION CHART.
3. THE ALGEBRAIC DIFFERENCE BETWEEN THE ROADWAY AND SHOULDER SLOPE SHALL NOT EXCEED 8%. SEE SUPERELEVATION CHART.

STA. 431+86.72 TO STA. 434+87.85
18.0" TO 1.25"

STA. 431+86.72 TO STA. 434+87.85
18.0" TO 1.25"

(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)		PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C		HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED		GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS		PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				

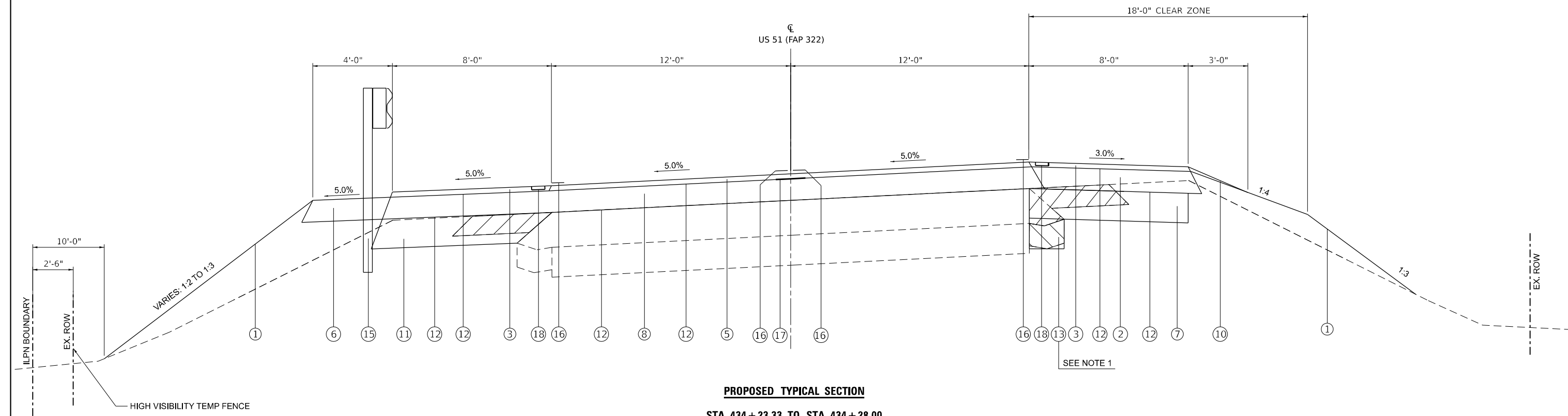


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MODEL: Default
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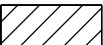


PROPOSED TYPICAL SECTION
STA. 434 + 23.33 TO STA. 434 + 28.00

- NOTES:**
- USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.

HMA SHOULDERS, VARIABLE DEPTH CHART	HMA BINDER COURSE, VARIABLE DEPTH CHART
STA. 431+86.72 TO STA. 434+87.85 18.0" TO 1.25"	STA. 431+86.72 TO STA. 434+87.85 18.0" TO 1.25"

TYPICAL SECTION LEGEND

(A) EX. EMBANKMENT	(1) PR. EMBANKMENT	(12) PR. BITUMINOUS MATERIALS (TACK COAT)	 PAVED SHOULDER REMOVAL
(B) EX. 8" HMA SHOULDER	(2) PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13) PR. SUBBASE GRANULAR MATERIAL, TYPE C	 HMA SURFACE REMOVAL, VARIABLE DEPTH
(C) EX. CONCRETE GUTTER TYPE B	(3) PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14) RESERVED	 GUTTER REMOVAL
(D) EX. HMA SHOULDER	(4) PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15) PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	 PCC SURFACE REMOVAL, VARIABLE DEPTH
(E) EX. HMA PAVEMENT	(5) PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16) PR. THERMOPLASTIC PAVEMENT MARKING - 4"	
(F) EX. PCC PAVEMENT	(6) PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17) PR. LONGITUDINAL JOINT SEALANT	
(G) EX. GUARDRAIL	(7) PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18) PR. SHOULDER RUMBLE STRIPS, 8"	
(H) EX. GUARDRAIL	(8) PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)		
	(9) PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"		
	(10) PR. AGGREGATE WEDGE SHOULDER, TYPE B		
	(11) PR. HOT-MIX ASPHALT BASE COURSE, 8.75"		



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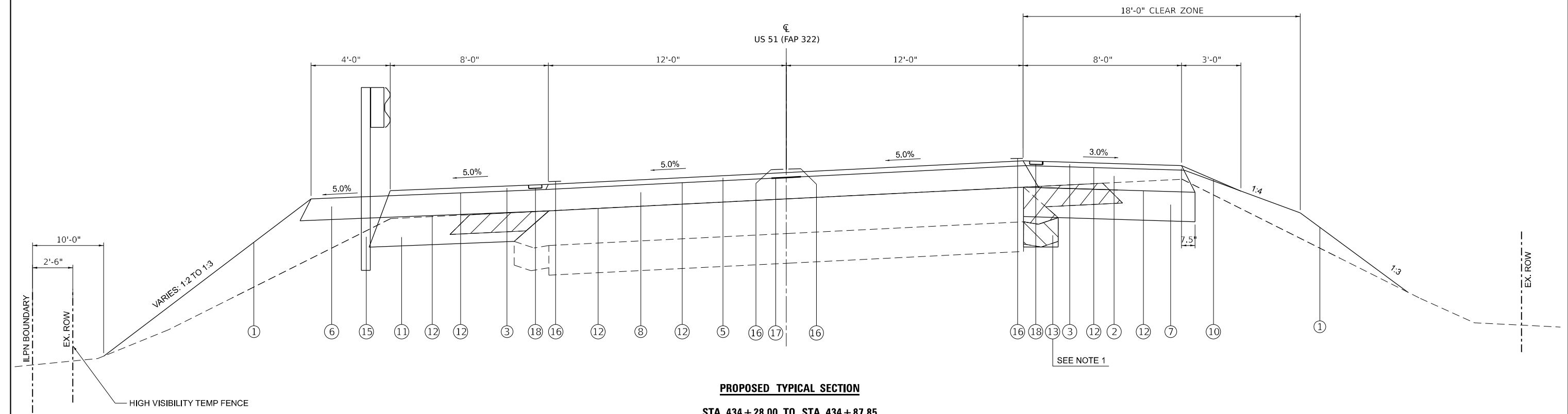
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	DRAWN - BAB	REVISED -
PLOT SCALE = 5,000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS			
US 51			
SCALE: N.T.S.	SHEET 8	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	23
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL Default
FILE NAME: D:\2022\2021\07A - US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 Tran\CAD_Sheets\0978937-5hct\jgkch.dgn



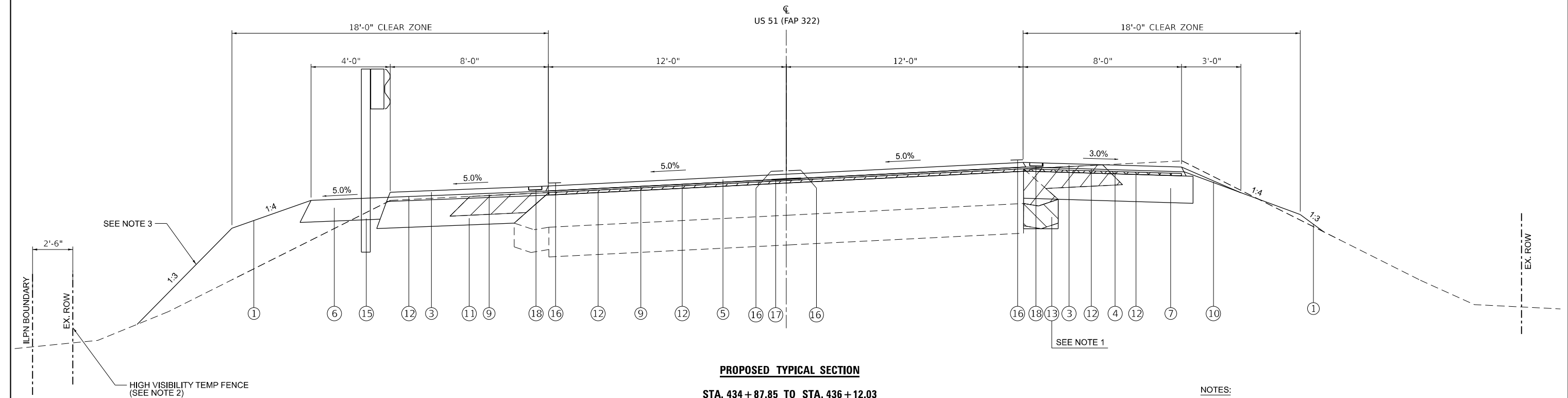
- NOTES:
1. USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.

HMA SHOULDERS, VARIABLE DEPTH CHART	HMA BINDER COURSE, VARIABLE DEPTH CHART
STA. 431+86.72 TO STA. 434+87.85 18.0" TO 1.25"	STA. 431+86.72 TO STA. 434+87.85 18.0" TO 1.25"

TYPICAL SECTION LEGEND

① EX. EMBANKMENT	① PR. EMBANKMENT	⑫ PR. BITUMINOUS MATERIALS (TACK COAT)	PAVED SHOULDER REMOVAL
② EX. 8" HMA SHOULDER	② PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	⑬ PR. SUBBASE GRANULAR MATERIAL, TYPE C	HMA SURFACE REMOVAL, VARIABLE DEPTH
③ EX. CONCRETE GUTTER TYPE B	③ PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	⑭ RESERVED	GUTTER REMOVAL
④ EX. HMA SHOULDER	④ PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	⑮ PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	PCC SURFACE REMOVAL, VARIABLE DEPTH
⑤ EX. HMA PAVEMENT	⑤ PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	⑯ PR. THERMOPLASTIC PAVEMENT MARKING - 4"	
⑥ EX. PCC PAVEMENT	⑥ PR. HOT-MIX ASPHALT SHOULDERS, 6"	⑰ PR. LONGITUDINAL JOINT SEALANT	
⑦ EX. GUARDRAIL	⑦ PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	⑱ PR. SHOULDER RUMBLE STRIPS, 8"	
⑧ EX. GUARDRAIL	⑧ PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)		
	⑨ PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"		
	⑩ PR. AGGREGATE WEDGE SHOULDER, TYPE B		
	⑪ PR. HOT-MIX ASPHALT BASE COURSE, 8.75"		

MODEL: Default
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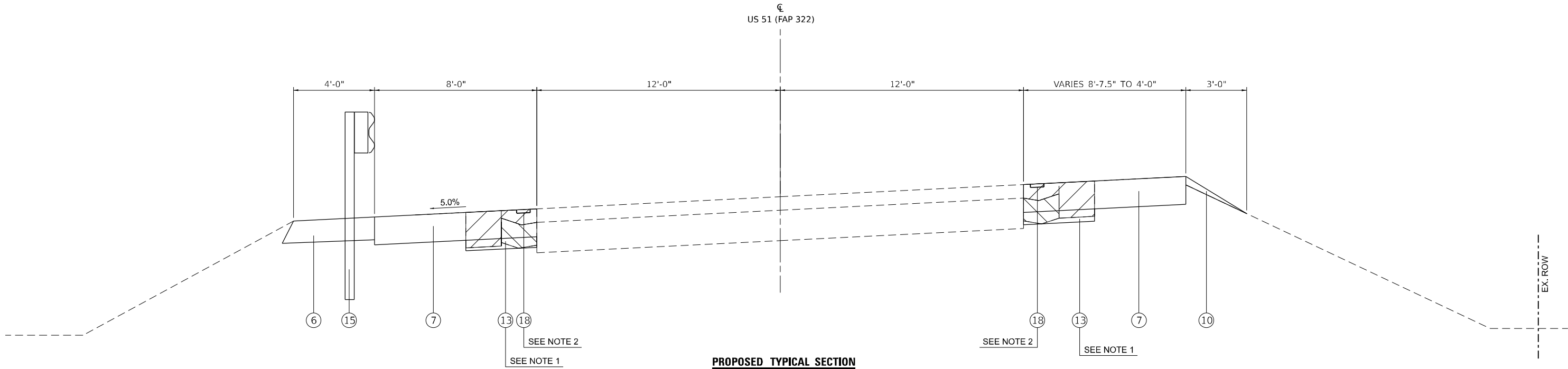


- NOTES:
- USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.
 - FROM STA. 435+00.71 TO STA. 436+12.70, HIGH VISIBILITY TEMPORARY FENCING SHALL BE SET AT 2'-6" OFF ILPN BOUNDARY AND NOT AT EXISTING ROW.
 - AT STA. 435+00.00, TRANSITION FROM VARIABLE SLOPE TO 1:4/1:3 BARN ROOF SLOPES.

TYPICAL SECTION LEGEND

(A) EX. EMBANKMENT	(1) PR. EMBANKMENT	(12) PR. BITUMINOUS MATERIALS (TACK COAT)	PAVED SHOULDER REMOVAL
(B) EX. 8" HMA SHOULDER	(2) PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13) PR. SUBBASE GRANULAR MATERIAL, TYPE C	HMA SURFACE REMOVAL, VARIABLE DEPTH
(C) EX. CONCRETE GUTTER TYPE B	(3) PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14) RESERVED	GUTTER REMOVAL
(D) EX. HMA SHOULDER	(4) PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15) PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	PCC SURFACE REMOVAL, VARIABLE DEPTH
(E) EX. HMA PAVEMENT	(5) PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16) PR. THERMOPLASTIC PAVEMENT MARKING - 4"	
(F) EX. PCC PAVEMENT	(6) PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17) PR. LONGITUDINAL JOINT SEALANT	
(G) EX. GUARDRAIL	(7) PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18) PR. SHOULDER RUMBLE STRIPS, 8"	
(H) EX. GUARDRAIL	(8) PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)		
	(9) PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"		
	(10) PR. AGGREGATE WEDGE SHOULDER, TYPE B		
	(11) PR. HOT-MIX ASPHALT BASE COURSE, 8.75"		

Model: Default
File Name: D:\2022\202107A-US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 Tran\CAD_Sheets\0978937-sheettypical.dgn



PROPOSED TYPICAL SECTION
STA. 436 + 12.03 RT TO STA. 437 + 99.21 RT
STA. 436 + 12.03 LT TO STA. 436 + 74.90 LT

- NOTES:**
- USE SUBBASE GRANULAR MATERIAL, TYPE C TO FILL VOID LEFT FROM SHOULDER AND GUTTER REMOVAL.
 - CONSTRUCT AFTER STAGE 3.

TYPICAL SECTION LEGEND

(A)	EX. EMBANKMENT	(1)	PR. EMBANKMENT	(12)	PR. BITUMINOUS MATERIALS (TACK COAT)		PAVED SHOULDER REMOVAL
(B)	EX. 8" HMA SHOULDER	(2)	PR. HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH (SEE CHART)	(13)	PR. SUBBASE GRANULAR MATERIAL, TYPE C		HMA SURFACE REMOVAL, VARIABLE DEPTH
(C)	EX. CONCRETE GUTTER TYPE B	(3)	PR. HOT-MIX ASPHALT SHOULDERS, 1.5"	(14)	RESERVED		GUTTER REMOVAL
(D)	EX. HMA SHOULDER	(4)	PR. HOT-MIX ASPHALT SHOULDERS, 1.25"	(15)	PR. STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS		PCC SURFACE REMOVAL, VARIABLE DEPTH
(E)	EX. HMA PAVEMENT	(5)	PR. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1.5"	(16)	PR. THERMOPLASTIC PAVEMENT MARKING - 4"		
(F)	EX. PCC PAVEMENT	(6)	PR. HOT-MIX ASPHALT SHOULDERS, 6"	(17)	PR. LONGITUDINAL JOINT SEALANT		
(G)	EX. GUARDRAIL	(7)	PR. PORTLAND CEMENT CONCRETE BASE COURSE, 8.25"	(18)	PR. SHOULDER RUMBLE STRIPS, 8"		
(H)	EX. GUARDRAIL	(8)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (SEE CHART)				
		(9)	PR. HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70, 1.25"				
		(10)	PR. AGGREGATE WEDGE SHOULDER, TYPE B				
		(11)	PR. HOT-MIX ASPHALT BASE COURSE, 8.75"				

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USER NAME = bbillhartz	DESIGNED - TBP	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 5,000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS			
US 51			
SCALE: N.T.S.	SHEET 11	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	26
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL Default
FILE NAME: C:\2022\220120197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD_Sheets\0978937-51st-Schedule.dgn

EARTHWORK SCHEDULE										
LOCATION			EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		BORROW EXCAVATION	REMARKS
							EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
STA.	TO	STA.	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD	
US 51										
424+96.19	TO	428+99.28	95	25%	71	8242	71	-8171	8171	
431+86.72	TO	436+12.03	114	25%	86	2794	86	-2709	2709	
TOTALS			209						10879	

CHANGEABLE MESSAGE SIGN SCHEDULE			
LOCATION		CHANGEABLE MESSAGE SIGN	
		CAL DAY	CAL DAY
		NB	SB
US 51			
2 WEEKS BEFORE PRE-STAGE A		14	14
SUB TOTAL		14	14
PAY TOTAL:		28	

TREE REMOVAL SCHEDULE				
LOCATION				TREE REMOVAL, ACRES
				ACRE
PRE-STAGE A				
424+63.66	TO	429+95.79	RT	0.32
424+63.06	TO	430+28.74	LT	0.89
431+41.14	TO	431+15.57	LT	0.11
TOTAL:				1.5

DRAINAGE REMOVAL SCHEDULE							
LOCATION				REMOVING INLETS	PIPE DRAIN REMOVAL	REMOVING INLETS (SPECIAL)	FILLING INLETS (SPECIAL)
STATION	TO	STATION	LT/RT	EACH	FOOT	EACH	EACH
PRE-STAGE A							
429+46.94	TO						1.0
431+17.62	TO						1.0
SUB-TOTAL:				0.0	0.0	0.0	2.0
STAGE 1							
429+67.75	TO		LT		40.0		
429+68.34	TO		LT	1.0			
431+38.07	TO		LT	1.0			
431+38.95			LT		28.0		
SUB-TOTAL:				2.0	68.0	0.0	0.0
STAGE 2							
429+46.22	TO		RT		37.0		
429+46.94	TO		RT			1.0	
431+17.30	TO		RT		46.0		
431+17.62	TO					1.0	
SUB-TOTAL:				0.0	83.0	2.0	0.0
PAY TOTAL:				2	151	2	2

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE			
LOCATION			RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
			EACH
STAGE 1			
424+96.19	TO	425+98.27	2
434+87.85	TO	436+12.03	2
PAY TOTAL:			4



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PLOT SCALE = 40,000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	27
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

MODEL Default
FILE NAME: I:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 TranCAD Sheets\0978937-5ns-Schedule.dgn

GUARDRAIL SCHEDULE									
LOCATION				STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REMOVAL
STATION	TO	STATION	LT/RT	FOOT	EACH	EACH	EACH	EACH	FOOT
STAGE 1									
427+63.28	TO	429+79.21	LT				4		215.9
428+65.68	TO	429+15.68	LT			1.0			
429+15.68	TO	429+53.18	LT		1.0			1.0	
431+26.51	TO	434+20.60	LT						294.1
431+56.58	TO	431+94.08	LT		1.0		6	1.0	
431+94.08	TO	435+94.08	LT	400.0					
435+94.08	TO	436+44.08	LT			1.0			
SUB-TOTAL:				400.0	2.0	2.0	10.0	2.0	510.0
STAGE 2									
427+49.97	TO	429+59.16	RT				4		209.2
427+66.32	TO	428+16.32	RT			1			
428+16.32	TO	428+91.32	RT	75.0					
428+91.32	TO	429+28.82	RT		1			1	
431+02.80	TO	432+47.05	RT						144.3
431+32.82	TO	431+70.32	RT		1		4	1	
431+70.32	TO	432+20.32	RT			1			
SUB-TOTAL:				75.0	2.0	2.0	8.0	2.0	353.5
PAY TOTAL:				475	4	4	18	4	864

PAVEMENT MARKING SCHEDULE												
LOCATION					SHORT TERM PAVEMENT MARKING (2 APPLICATIONS)	SHORT TERM PAVEMENT MARKING REMOVAL (2 APPLICATIONS)	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT (1 APPLICATION)		THERMOPLASTIC PAVEMENT MARKING - LINE 4"		PAVEMENT MARKING BLACKOUT TAPE, 5"	PAVEMENT MARKING REMOVAL - GRINDING
							YELLOW	WHITE	YELLOW	WHITE		
STATION	TO	STATION	LOCATION	TYPE	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
US 51												
421+71.62	TO	424+71.19	CENTERLINE	SOLID		124.8					299.6	
423+36.07	TO	428+99.28	SHOULDERS	SKIP-DASH	24	8.0						
423+36.07	TO	437+99.21	EDGE LINE, RT	SOLID				1463.1		1463.1		487.7
423+86.77	TO	428+99.28	SHOULDERS	SKIP-DASH	24	8.0						
423+86.77	TO	436+42.75	EDGE LINE, LT	SOLID				1256.0		1256.0		418.7
424+96.19	TO	436+12.03	CENTERLINE	SKIP-DASH	224	76.0						
424+96.19	TO	436+12.03	CENTERLINE	DOUBLE			2231.7		2231.7			743.9
431+86.72	TO	437+99.21	SHOULDERS	SKIP-DASH	24	8.0						
431+86.72	TO	436+74.90	SHOULDERS	SKIP-DASH	16	6.0						
436+95.22	TO	439+83.15	CENTERLINE	SOLID		120.0					287.9	
PAY TOTAL:					312	351	2232	2719	2232	2719	588	1650
							4951		4951			

BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL) SCHEDULE							
LOCATION				BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)	SUBBASE GRANULAR MATERIAL, TYPE B	WELDED WIRE REINFORCEMENT	
STATION	TO	STATION		SQ YD	TON	SQ YD	
STAGE 1							
428+99.28	TO	429+37.37	LT	75.0	8.7	43.1	
431+71.38	TO	431+86.72	LT	49.8	13.1	34.1	
SUB-TOTAL:				124.7	21.8	77.2	
STAGE 2							
428+99.28	TO	429+26.00	RT	43.8	5.1	28.1	
431+48.63	TO	431+86.72	RT	69.0	18.1	37.2	
SUB-TOTAL:				112.8	23.2	65.3	
PAY TOTAL:				238	45	143	

EROSION CONTROL SCHEDULE					
LOCATION					PERIMETER EROSION BARRIER
STATION	LT/RT	TO	STATION	LT/RT	FOOT
STAGE 1					
423+86.77	LT	TO	430+26.07	LT	747.8
430+85.35	LT	TO	436+74.90	LT	603.4
SUB-TOTAL:					1,351
STAGE 2					
423+36.07	RT	TO	430+01.71	RT	738.7
430+61.27	RT	TO	437+99.21	RT	856.8
SUB-TOTAL:					1,596
PAY TOTAL:					2947

FURNISHING AND ERECTING ROW MARKERS SCHEDULE		
LOCATION		FURNISHING AND ERECTING ROW MARKERS
		EACH
US 51		4
SUB TOTAL		4
PAY TOTAL:		4



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ILLINOIS DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = bbillhartz

PLOT SCALE = 40,000 ' / in.
PLOT DATE = 9/5/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	28
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

MODEL Default
FILE NAME: D:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)4 CADDD - DWG\4.7 TranCAD_Sheets\0978937-51st-Schedule.dgn

MAINLINE PAVING SCHEDULE																		
LOCATION				SUBBASE GRANULAR MATERIAL, TYPE C	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8.25"	HOT-MIX ASPHALT BASE COURSE, 8 3/4"	BITUMINOUS MATERIALS (TACK COAT)	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	LONGITUDINAL JOINT SEALANT	HOT-MIX ASPHALT SHOULDERS, 1 1/4"	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	HOT-MIX ASPHALT SHOULDERS, 6"	HOT-MIX ASPHALT SHOULDERS	SHOULDER RUMBLE STRIPS, 8 INCH	AGGREGATE WEDGE SHOULDER, TYPE B
STATION	TO	STATION	LT/RT	TON	SQ YD	SQ YD	POUND	SQ YD	TON	TON	TON	FOOT	SQ YD	SQ YD	SQ YD	TON	FOOT	TON
PRE-STAGE A																		
423+36.07	TO	425+98.27	RT	23.8														
423+36.07	TO	429+44.05	RT		541.0													
425+98.27	TO	428+99.28	RT	32.4														
431+19.66	TO	437+99.21	RT		643.2													
431+86.72	TO	436+12.03	RT	45.8														
436+12.03	TO	437+99.21	RT	17.0														
SUB-TOTAL:				119.0	1184.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STAGE 1																		
423+86.72	TO	424+96.19	LT	9.9	68.9													
424+96.19	TO	425+01.19	LT					6.7										
424+96.19	TO	425+98.27	LT	4.6						16.0								
424+96.19	TO	428+99.28	LT			380.7	433.2											
425+98.27	TO	428+99.28	LT								391.1							
428+94.28	TO	428+99.28	LT					6.7										
428+32.29	TO	428+53.18	LT												48.0			
431+57.18	TO	436+74.90	LT												222.5			
431+86.72	TO	431+91.72	LT					6.7										
431+86.72	TO	436+12.03	LT			401.7	525.7											
431+86.72	TO	434+87.85	LT								457.6							
434+87.85	TO	436+12.03	LT							19.4								
436+07.03	TO	436+12.03	LT					6.7										
436+12.03	TO	436+74.90	LT	5.7	36.9													
SUB-TOTAL:				20.2	105.7	782.4	958.9	26.7	0.0	35.4	848.7	0.0	0.0	0.0	270.5	0.0	0.0	0.0
STAGE 2																		
424+96.19	TO	425+01.19	RT					6.7										
424+96.19	TO	425+98.28	RT				40.8			9.6			90.7					
424+96.19	TO	428+99.28	RT				392.4									131.0		
425+98.27	TO	428+99.28	RT								211.7							
427+32.93	TO	428+28.82	RT												82.8			
428+94.28	TO	428+99.28	RT					6.7										
431+32.82	TO	432+50.20	RT												48.0			
431+86.72	TO	431+91.72	RT					6.7										
431+86.72	TO	436+12.03	RT				476.0									179.4		
431+86.72	TO	434+86.72	RT								264.1							
434+87.85	TO	436+12.03	RT				49.7			11.7			110.4					
436+07.03	TO	436+12.03	RT					6.7										
SUB-TOTAL:				0.0	0.0	0.0	958.9	26.7	0.0	21.3	475.8	0.0	201.1	0.0	130.8	310.4	0.0	0.0
STAGE 3																		
423+36.07	TO	428+99.28	RT														563.2	8.1
423+86.72	TO	428+99.28	LT														512.6	9.1
424+96.19	TO	427+32.93	RT															
424+96.19	TO	428+32.39	LT															
424+96.19	TO	428+99.28	LT/RT				241.9		90.8			403.1						
424+96.19	TO	428+99.28	RT				80.6							358.3				
424+96.19	TO	428+99.28	LT				80.6							358.3				
431+86.72	TO	436+12.03	LT/RT				510.4		95.8			425.3						
431+86.72	TO	436+12.03	RT				85.1							378.1				
431+86.72	TO	436+12.03	LT				85.1							378.1				
431+86.72	TO	436+74.90	LT														488.2	
431+86.72	TO	437+99.21	RT														612.5	
432+53.68	TO	437+99.21	RT															11.2
SUB-TOTAL:				0.0	0.0	0.0	1083.6	0.0	186.5	0.0	0.0	828.4	0.0	1472.7	0.0	0.0	2176.5	28.4
PAY TOTAL:				139	1290	782	3001	53	187	57	1325	828	201	1473	401	310	2177	28



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IL DESIGN FIRM
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PLOT SCALE = 40,000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	29
CONTRACT NO. 78937				
ILLINOIS		FED. AID PROJECT		

MODEL Default
FILE NAME: D:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)4 CADDD - DWG\4.7 Trai\CAD_Sheets\0978937-51st-Schedule.dgn

SEEDING SCHEDULE											
LOCATION				SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
											2 APPLICATIONS
STATION	TO	STATION	LT/RT	ACRE	ACRE	POUND	POUND	POUND	TON	SQ YD	POUND
STAGE 1											
423+86.73	TO	430+26.07	LT	0.979	0.979	88.1	88.1	88.1	2.0	4740.0	195.8
430+85.23	TO	436+74.90	LT	0.450	0.450	40.5	40.5	40.5	1.2	2176.5	90.0
SUB TOTAL:				1.43	1.43	128.60	128.60	128.60	3.20	6916.50	285.80
STAGE 2											
423+36.07	TO	430+01.71	RT	0.780	0.780	70.2	70.2	70.2	1.6	3777.1	156.0
430+61.27	TO	437+99.21	RT	0.575	0.575	51.8	51.8	51.8	0.9	2780.7	115.0
SUB TOTAL:				1.36	1.36	122.00	122.00	122.00	2.50	6557.80	271.00
PAY TOTAL:				2.75	2.75	248	248	248	6	13474	557

RIPRAP SCHEDULE			
LOCATION		STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION		SQ YD	SQ YD
STAGE 1			
428+99.28	LT	81.3	81.3
431+86.72	LT	45.9	45.9
SUB-TOTAL:		127.1	127.1
STAGE 2			
428+99.28	RT	69.5	69.5
431+86.72	RT	59.6	59.6
SUB-TOTAL:		129.1	129.1
PAY TOTAL:		256	256

TRAFFIC CONTROL SCHEDULE												
LOCATION					TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS	TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE NARROW), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C
LOCATION	LT/RT	TO	LOCATION	LT/RT	EACH	EACH	FOOT	EACH	FOOT	EACH	EACH	EACH
STAGE 1												
423+08.07	LT	TO	437+94.07	LT	0.5	3	1487.5	90 *				120
423+08.07	LT								1			
429+53.18	LT	TO	431+57.18	LT								8
437+94.07	LT								1			
SUB-TOTAL:					0.5	3	1487.5	90 *	0	2	0	128
STAGE 2												
423+07.00	RT	TO	437+11.20	RT	0.5	3		249	1400			57
423+07.00	RT										1	
429+28.82	RT	TO	43132.82									8
437+11.20	RT										1	
SUB-TOTAL:					0.5	3	0	249	1400	0	2	65
PAY TOTAL:					1	6	1488	339	1400	2	2	193

* STA. 428+71.19 TO STA. 432+21.19

SIGNAGE SCHEDULE				
LOCATION			DESCRIPTION	WOOD SIGN SUPPORT
				FOOT
STATION	OFFSET	LT/RT	SIGN	
US 51				
428+00.00	26.0'	RT	W1-2	16.5
428+00.00	26.0'	LT	W1-2	17.5
SUB-TOTAL:				34
PAY TOTAL:				34

HIGH VISIBILITY TEMPORARY FENCING SCHEDULE			
LOCATION			HIGH VISIBILITY TEMPORARY FENCING
STATION	TO	STATION	FOOT
PRE-STAGE A			
432+08.47	TO	436+12.70	397
PAY TOTAL:			397

MODEL Default
FILE NAME: I:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD_Sheets\0978937-5ns-Schedule.dgn

REMOVAL SCHEDULE												
LOCATION				PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	GUTTER REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	PARTIAL DEPTH REMOVAL, TYPE II, VARIABLE DEPTH	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)
STATION	TO	STATION	LT/RT	SQ YD	SQ YD	FOOT	FOOT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
PRE-STAGE A												
423+36.07	TO	429+44.05	RT			608.0						
423+36.07	TO	429+44.05	RT		280.9							
431+19.66	TO	437+99.21	RT			679.5						
431+19.66	TO	437+99.21	RT		313.9							
SUB-TOTAL:				0.0	594.7	1287.5	0.0	0.0	0.0	0.0	0.0	0.0
STAGE 1												
423+86.77	TO	429+76.52	LT		264.4							
423+86.77	TO	425+98.27	LT			211.5						
424+96.19	TO	425+06.19	LT						14.7			
424+96.19	TO	425+98.27	LT								152.1	
429+21.98	TO	429+33.48	LT					26.8				
429+40.68	TO	429+67.92	LT	40.4								
431+16.38	TO	431+44.18	LT	40.2								
431+26.34	TO	436+56.19	LT		233.1							
431+51.38	TO	431+62.89	LT					26.8				
434+87.85	TO	436+12.03	LT								189.8	
436+02.03	TO	436+12.03	LT						15.2			
436+12.03	TO	436+74.90	LT			62.9						
436+57.70	TO	436+74.90	LT				17.7					
SUB-TOTAL:				80.6	497.6	274.4	17.7	53.7	29.9	0.0	341.8	0.0
STAGE 2												
424+96.19	TO	425+06.19	RT						13.2	9.8		
424+96.19	TO	429+40.68	RT	49.4								
424+96.19	TO	425+98.27	RT								121.6	101.0
429+21.98	TO	429+33.48	RT					23.0				
429+30.50	TO	429+57.32	RT		17.9							
429+40.68	TO	429+67.92	RT	35.0								
431+06.94	TO	431+33.91	RT		18.5							
431+16.38	TO	431+44.18	RT	35.5								
431+44.18	TO	436+12.03	RT	52.0								
431+51.38	TO	431+62.89	RT					23.0				
434+87.85	TO	436+12.03	RT								142.3	119.6
436+02.03	TO	436+12.03	RT						12.7	10.3		
SUB-TOTAL:				171.9	36.4	0.0	0.0	46.0	25.9	20.1	264.0	220.5
PAY TOTAL:				252	1129	1562	18	100	56	20	606	221



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LICENSE NO:
184-001220

USER NAME = bbillhartz

PLOT SCALE = 40,000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

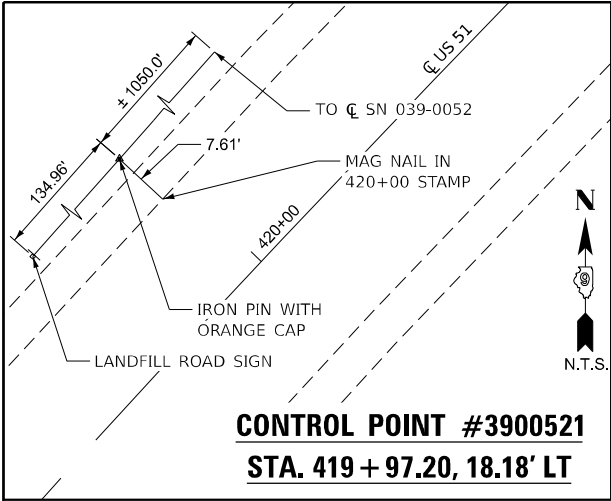
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	31
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

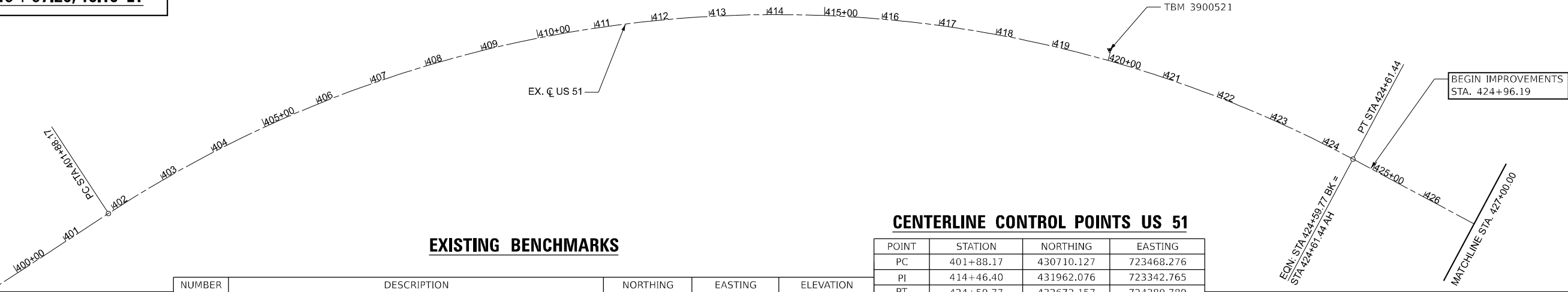
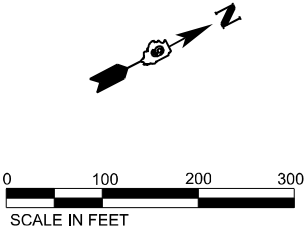
MODEL Default
FILE NAME: P:\2023\220127A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADDD - DWG\4.7 TranCAD Sheets\0928937-5ht-ATB.dgn



EX CURVE
PI STA = 414+46.40
 $\Delta = 61^{\circ}18'45''$ (RT)
D = $02^{\circ}41'57''$
R = 2,122.78'
T = 1,258.22'
L = 2271.59'
E = 344.87'
e = 5.0%
PC STA = 401+88.17
PT STA = 424+61.44

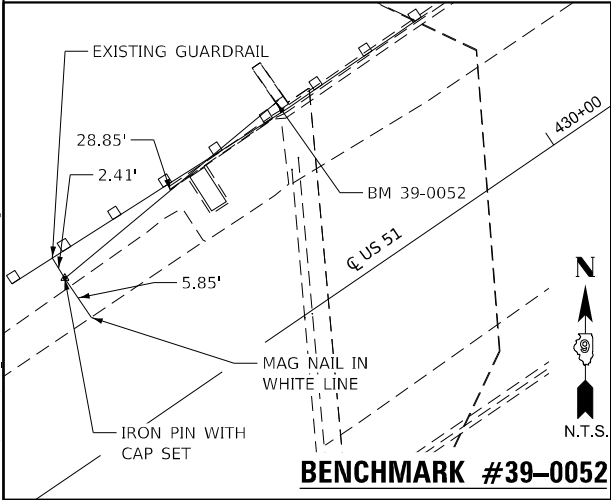
PI STA 414+46.40

CONTROL POINT #3900521
STA. 419 + 97.20, 18.18' LT

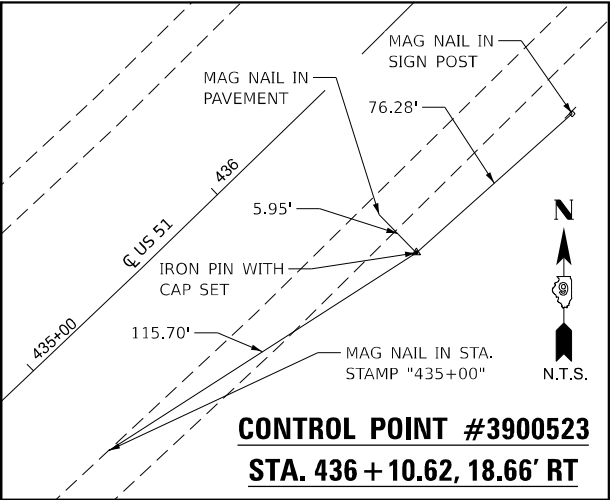


EXISTING BENCHMARKS

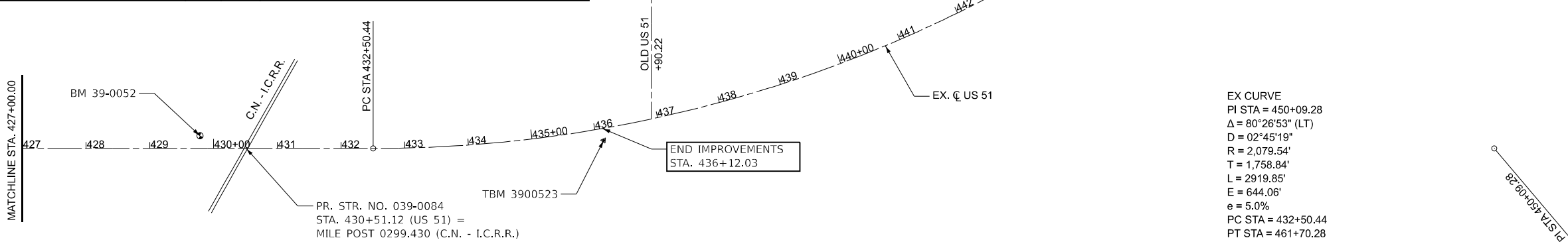
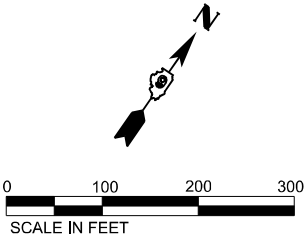
NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
39-0052	EXISTING "  " CUT ON TOP OF NW WINGWALL OF OF SN 039-0052	432982.012	724796.129	441.746



BENCHMARK #39-0052



CONTROL POINT #3900523
STA. 436 + 10.62, 18.66' RT



USER NAME = bblilhartz	DESIGNED - TBP	REVISED -
PLOT SCALE = 200,000 * / in.	DRAWN - BAB	REVISED -
PLOT DATE = 8/21/2025	CHECKED - SJK	REVISED -
	DATE - 5/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES, AND BENCHMARKS
US 51

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	32
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: E:\JES1 - Plan - US 51
FILE NAME: D:\2022\2201\71A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tran\CAD Sheets\078937-51tbln.dgn



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LICENSE NO: 184-001220

USER NAME = bbillhartz
PLOT SCALE = 40,000,000.000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025

REVISED -
REVISED -
REVISED -
REVISED -

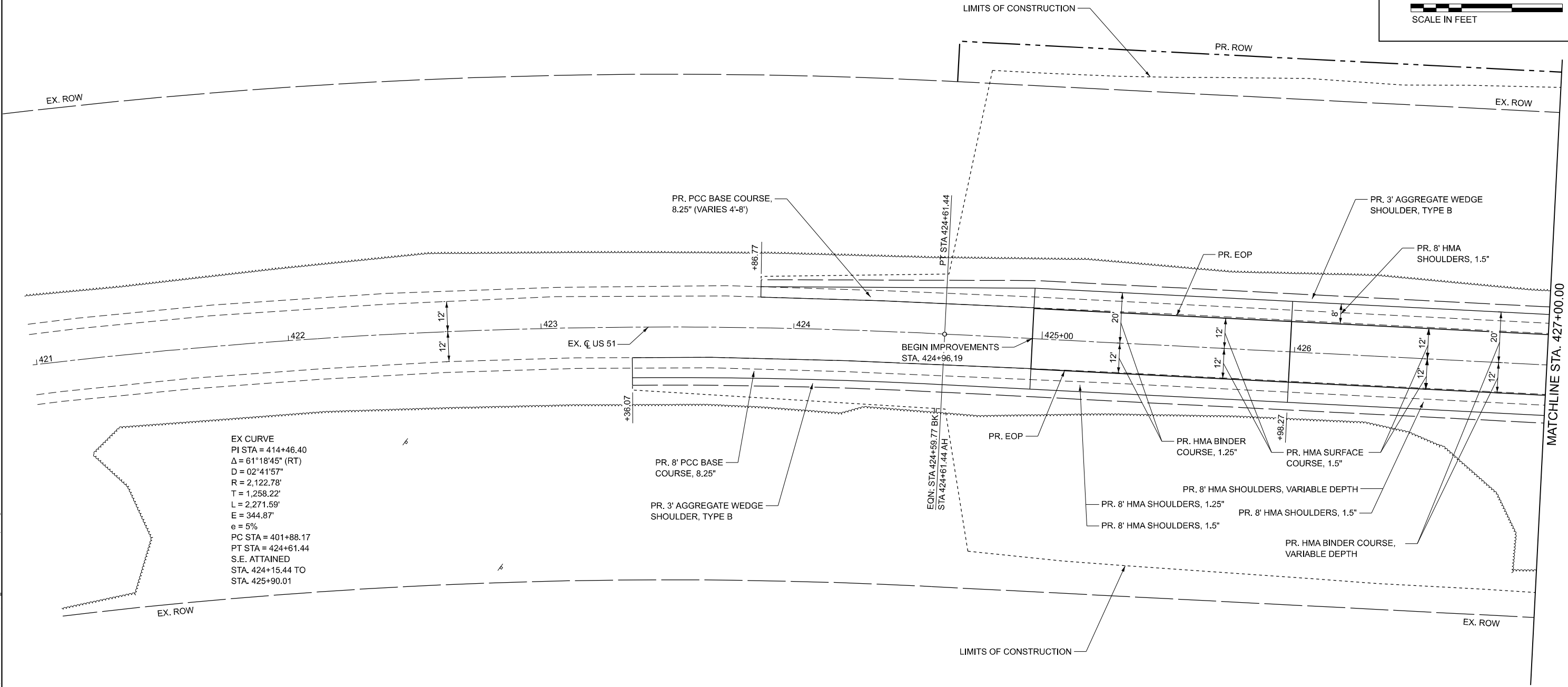
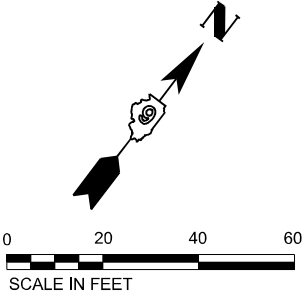
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

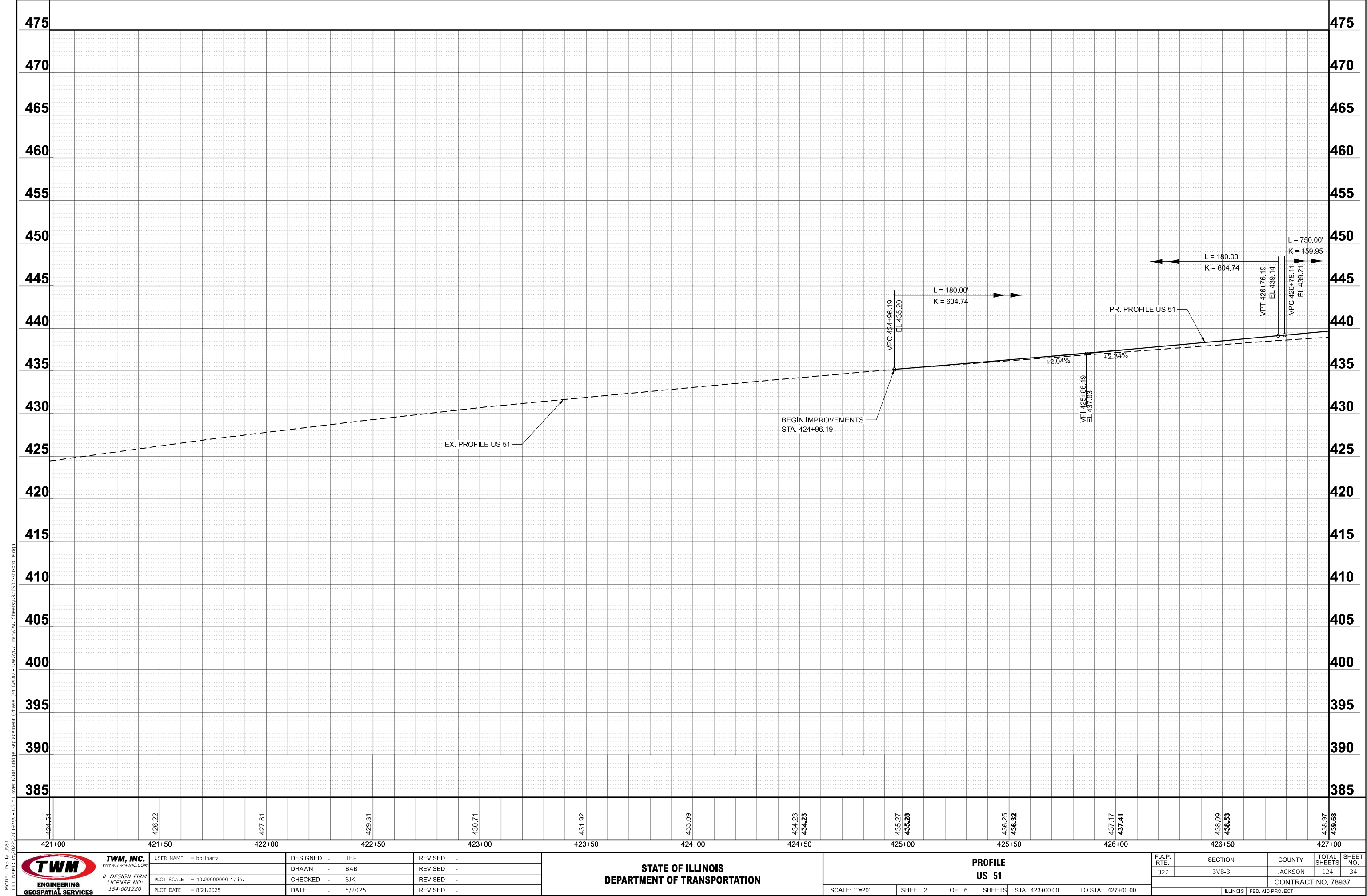
PLAN
US 51

SCALE: 1"=20' SHEET 1 OF 6 SHEETS STA. 423+36.07 TO STA. 427+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	33
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

10-05-400-020





MODEL: Proj 16 US51
FILE NAME: P:\2022\220197A - US 51 over ICR Bridge Replacement (Phase II) - CAD - DWG\4.7 Tran\CAD Sheets\DWG937-sheet01.dgn



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LICENSE NO: 184-001220

USER NAME =	bbillhartz
PLOT SCALE =	40,00000000 ' / in.
PLOT DATE =	8/21/2025

DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025

REVISED -	
REVISED -	
REVISED -	
REVISED -	

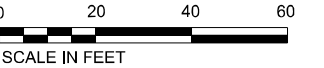
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE
US 51

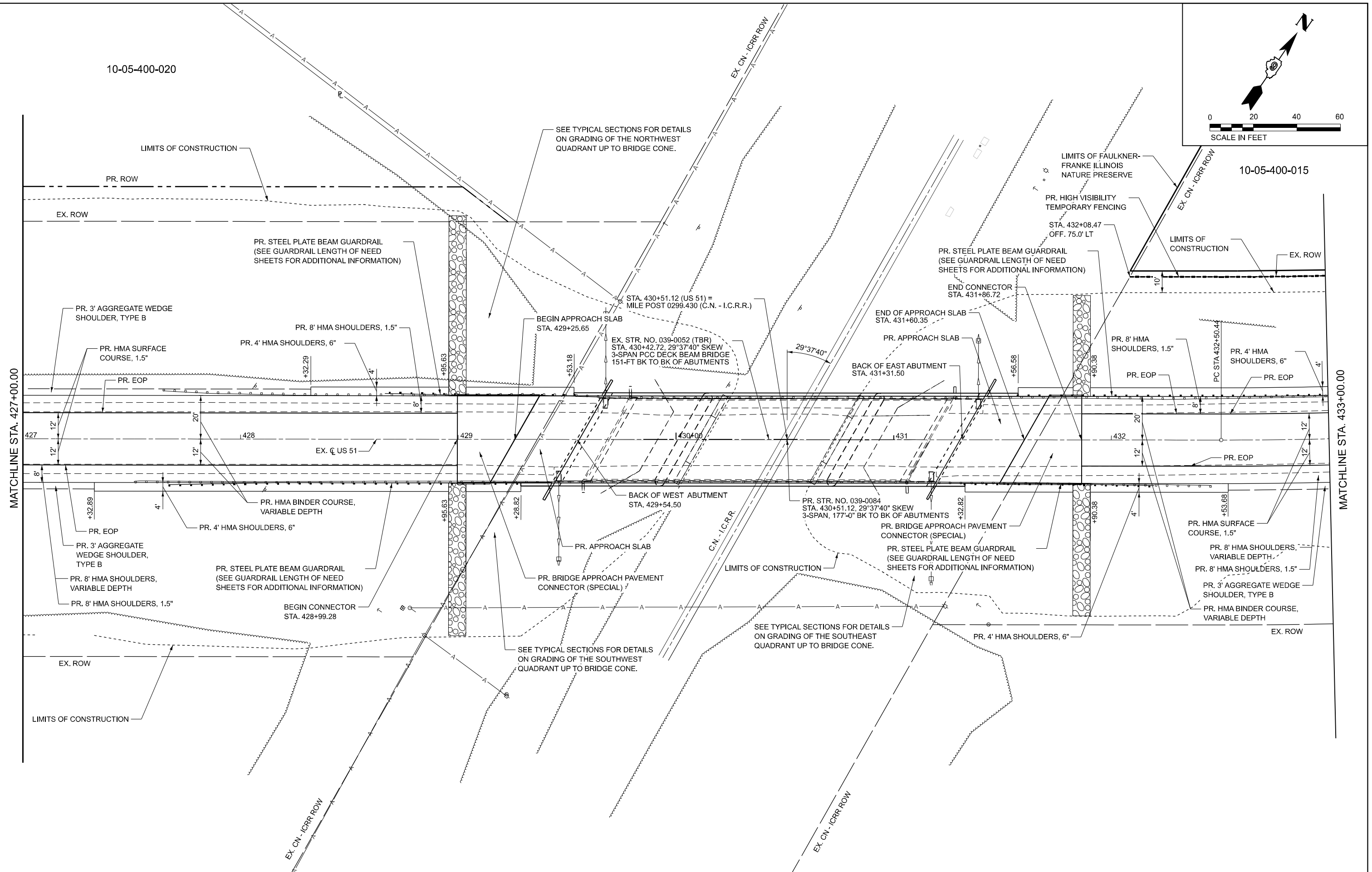
SCALE: 1"=20' SHEET 2 OF 6 SHEETS STA. 423+00.00 TO STA. 427+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	34
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

10-05-400-020



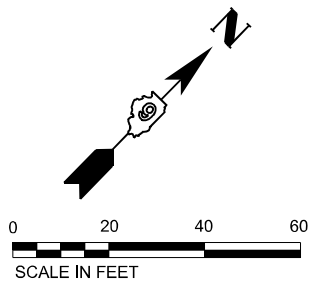
10-05-400-015



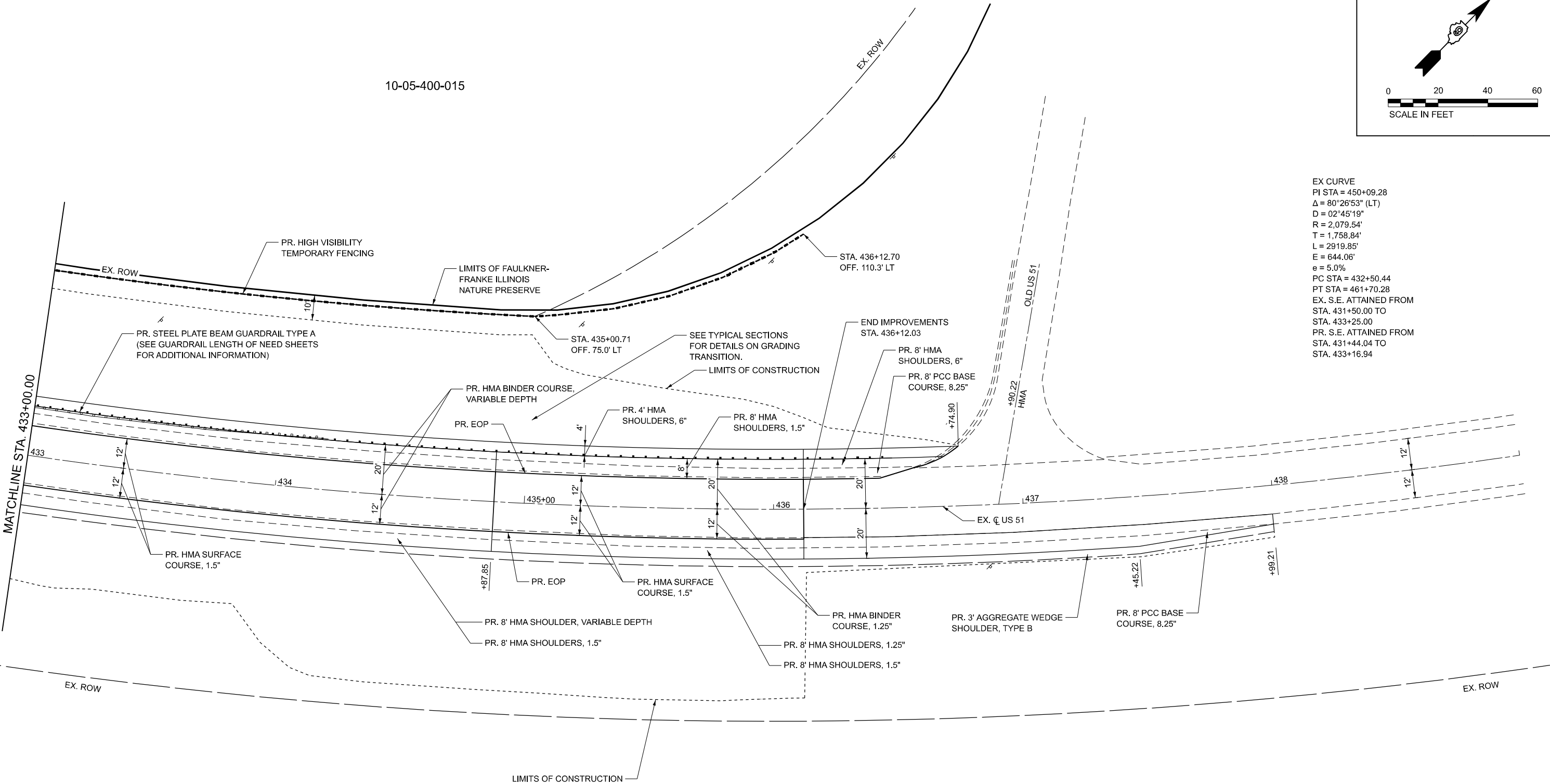
MODEL: E:\JES1 - Plan - US 51
FILE NAME: D:\2022\220179A - US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 Tran\CAD_Sheets\078937-51tbln.dgn

 TWM, INC. www.twm-inc.com IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = bbillhartz		DESIGNED - TBP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN US 51				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,000.00000 " / in.		DRAWN - BAB	REVISED -						322	3VB-3	JACKSON	124	35
	PLOT DATE = 8/21/2025		CHECKED - SJK	REVISED -						CONTRACT NO. 78937				
			DATE - 5/2025	REVISED -										
SCALE: 1"=20'			SHEET 3 OF 6 SHEETS			STA. 427+00.00 TO STA. 433+00.00		ILLINOIS FED. AID PROJECT						

10-05-400-015



EX CURVE
PI STA = 450+09.28
 $\Delta = 80^\circ 26' 53''$ (LT)
D = $02^\circ 45' 19''$
R = 2,079.54'
T = 1,758.84'
L = 2919.85'
E = 644.06'
e = 5.0%
PC STA = 432+50.44
PT STA = 461+70.28
EX. S.E. ATTAINED FROM
STA. 431+50.00 TO
STA. 433+25.00
PR. S.E. ATTAINED FROM
STA. 431+44.04 TO
STA. 433+16.94



MODEL: E:\JES1 - Plan - US 53
FILE NAME: D:\2022\2201\71A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tran\CAD Sheets\097893725\sheetplan.dgn



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LICENSE NO: 184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 40,000,000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025

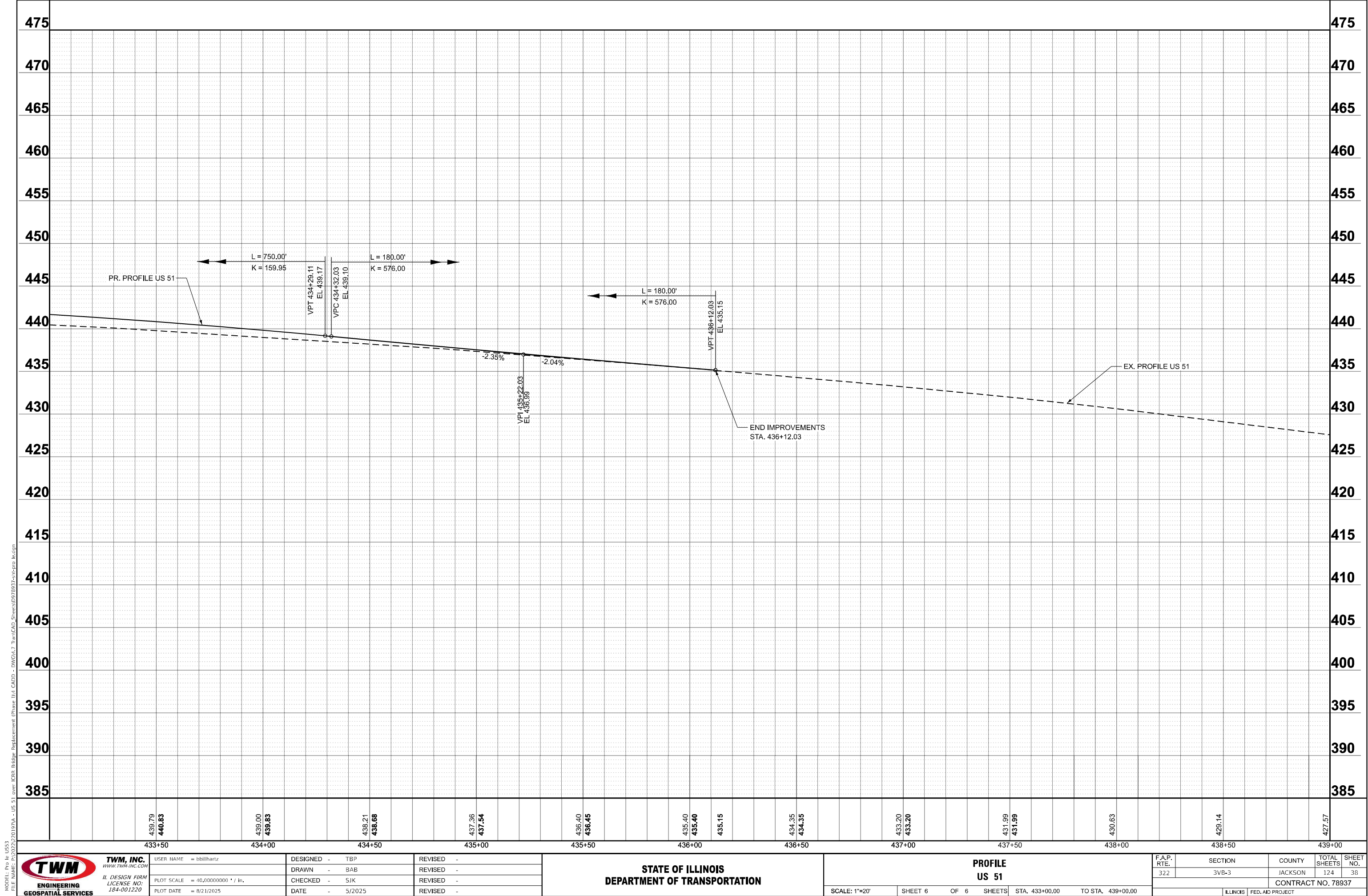
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 51
PLAN

SCALE: 1"=20' SHEET 5 OF 6 SHEETS STA. 433+00.00 TO STA. 439+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	37
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



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LICENSE NO:
184-001220

USER NAME = bbillhartz
PLOT SCALE = 40,00000000 * / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE
US 51

SCALE: 1"=20' SHEET 6 OF 6 SHEETS STA. 433+00.00 TO STA. 439+00.00

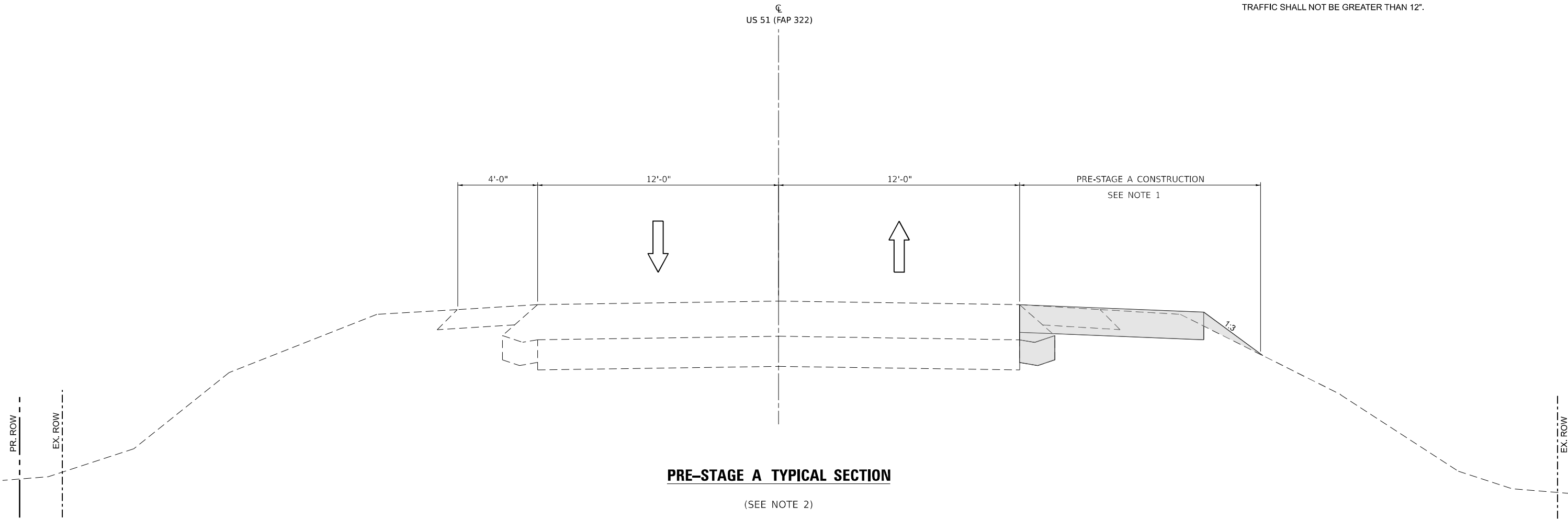
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	38
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL Default
FILE NAME: P:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD_Sheets\0978937-shc-rdt-Staging_Sequence of Construction.dgn

SUGGESTED STAGE CONSTRUCTION SEQUENCE FOR CONSTRUCTION PRE-STAGE A				SUGGESTED STAGE CONSTRUCTION SEQUENCE FOR CONSTRUCTION STAGE 1				SUGGESTED STAGE CONSTRUCTION SEQUENCE FOR CONSTRUCTION STAGE 2				SUGGESTED STAGE CONSTRUCTION SEQUENCE FOR CONSTRUCTION STAGE 3										
<u>SHOULDER WIDENING</u> 1. SEE PRE-STAGE A TYPICAL SECTION. 2. TRAFFIC CONTROL VIA HIGHWAY STANDARDS. SEE PRE-STAGE A - STAGING PLAN. 3. INSTALL HIGH VISIBILITY TEMPORARY FENCING. 4. REMOVE EXISTING TREES, PAVED SHOULDERS, AND CONCRETE GUTTER. 5. WIDEN NB US 51 ACCORDING TO PRE-STAGE A DETAILS USING PCC BASE COURSE. 6. FILL EXISTING INLETS ACCORDING TO PRE-STAGE A DETAILS.				<u>ROADWAY GRADE RAISE AND BRIDGE CONSTRUCTION (LEFT SIDE)</u> 1. ERECT WIDTH RESTRICTION SIGNING. 2. ERECT WORK ZONE TRAFFIC CONTROL FOR STAGE 1. 3. REMOVE EXISTING PAVEMENT, PAVED SHOULDERS, CONCRETE GUTTER, GUARDRAIL, INLETS, AND PIPE DRAINS. 4. REMOVE LEFT SECTION OF EX. SN 039-0052 (SEE STRUCTURE PLANS). 5. CONSTRUCT HMA BASE COURSE, HMA BINDER COURSE, AND HMA SHOULDERS. 6. CONSTRUCT LEFT SECTION OF PR. SN 039-0084 (SEE BRIDGE PLANS). 7. INSTALL GUARDRAIL ON LEFT SIDE OF US 51. 8. FINAL GRADING AND ITEMS RELATED TO RIPRAP AND PERMANENT SEEDING ON THE LEFT HALF OF THE ROADWAY. 9. TRANSITION TO STAGE 2 TRAFFIC CONTROL.				<u>ROADWAY GRADE RAISE AND BRIDGE CONSTRUCTION (RIGHT SIDE)</u> 1. KEEP WIDTH RESTRICTION SIGNING. 2. ERECT WORK ZONE TRAFFIC CONTROL FOR STAGE 2. 3. REMOVE GUARDRAIL, INLETS, AND PIPE DRAINS. 4. REMOVE RIGHT SECTION OF EX. SN 039-0052 (SEE STRUCTURE PLANS). 5. CONSTRUCT HMA BASE COURSE, HMA BINDER COURSE, AND HMA SHOULDERS. 6. CONSTRUCT RIGHT SECTION OF PR. SN 039-0084 (SEE BRIDGE PLANS). 7. INSTALL GUARDRAIL ON RIGHT SIDE OF US 51. 8. FINAL GRADING AND ITEMS RELATED TO RIPRAP AND PERMANENT SEEDING ON THE RIGHT HALF OF THE ROADWAY. 9. REMOVE TRAFFIC CONTROL RELATED TO STAGE 2.				<u>PLACEMENT OF HMA SURFACE COURSE</u> 1. SEE STAGE 3 - STAGING TYPICAL SECTION. 2. TRAFFIC CONTROL VIA HIGHWAY STANDARDS. 3. PLACE HMA SURFACE COURSE AND HMA SHOULDERS. (TOP LIFT) 4. PLACE AGGREGATE WEDGE SHOULDERS. 5. PLACE FINAL PAVEMENT MARKINGS. 6. CONSTRUCT SHOULDER RUMBLE STRIPS. 7. REMOVE HIGH VISIBILITY TEMPORARY FENCING.										
 TWM ENGINEERING GEOSPATIAL SERVICES TWM, INC. www.twm-inc.com IL DESIGN FIRM LICENSE NO: 184-001220				USER NAME = bblilihartz		DESIGNED - TBP		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUGGESTED STAGE CONSTRUCTION SEQUENCE US 51				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40,000 ' / in.		DRAWN - BAB		REVISED -		322	3VB-3	JACKSON	124					39								
PLOT DATE = 8/21/2025		CHECKED - SJK		REVISED -										CONTRACT NO. 78937								
DATE - 5/2025		REVIS		ED -		SCALE:	SHEET 1	OF 1	SHEETS					STA.	TO STA.	ILLINOIS	FED. AID PROJECT					

NOTES

1. STAGE TYPICAL IS GENERIC.
2. SEE PROPOSED TYPICAL SECTIONS FOR CONSTRUCTION DETAILS.
3. OVERNIGHT DROP-OFFS LOCATED WITHIN 8 FT OF AN OPEN LANE OF TRAFFIC SHALL NOT BE GREATER THAN 12".



PRE-STAGE A TYPICAL SECTION

(SEE NOTE 2)

STAGE CONSTRUCTION LEGEND

- ① PR. TEMPORARY CONCRETE BARRIER
- ② PR. TEMPORARY CONCRETE BARRIER (PINNED)
- ③ PR. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV, 4"

WORK COMPLETED DURING STAGE CONSTRUCTION
(SEE NOTES)

MODEL: Default
FILE NAME: P:\2022\220127A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD Sheets\0278937-sheet\typical-staging.dgn



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LICENSE NO:
184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 5,000 ' / in.
PLOT DATE	= 8/21/2025

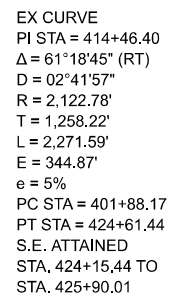
DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-STAGE A – STAGING TYPICAL SECTION			
US 51			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	40
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



1. SEE PRE-STAGE A - STAGING PLAN FOR TRAFFIC CONTROL.

[illegible]

1. SEE PRE-STAGE A - STAGING PLAN FOR TRAFFIC CONTROL.

MODEL: Removal Sheet 2
FILE NAME: P:\2022\220197A - US 51 over ICRR Bridge Replacement (Phase II) CAD - DWG\4.7 TranCAD Sheets\ID978937-sht-Removal-PreStage_A.dgn



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LICENSE NO:
184-001220

USER NAME = bbillhartz	DESIGNED - TBP	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 40,000,000.0000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-STAGE A – REMOVAL PLAN
US 51

SCALE: 1"=20'	SHEET 2	OF 3	SHEETS	STA. 427+00.00	TO STA. 433+00.00
---------------	---------	------	--------	----------------	-------------------

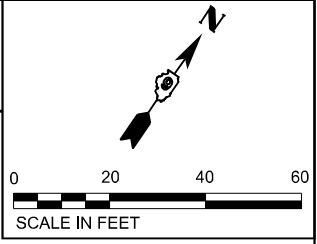
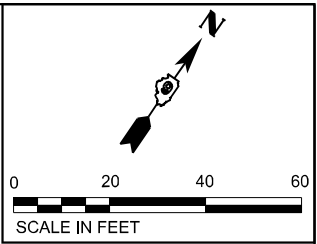
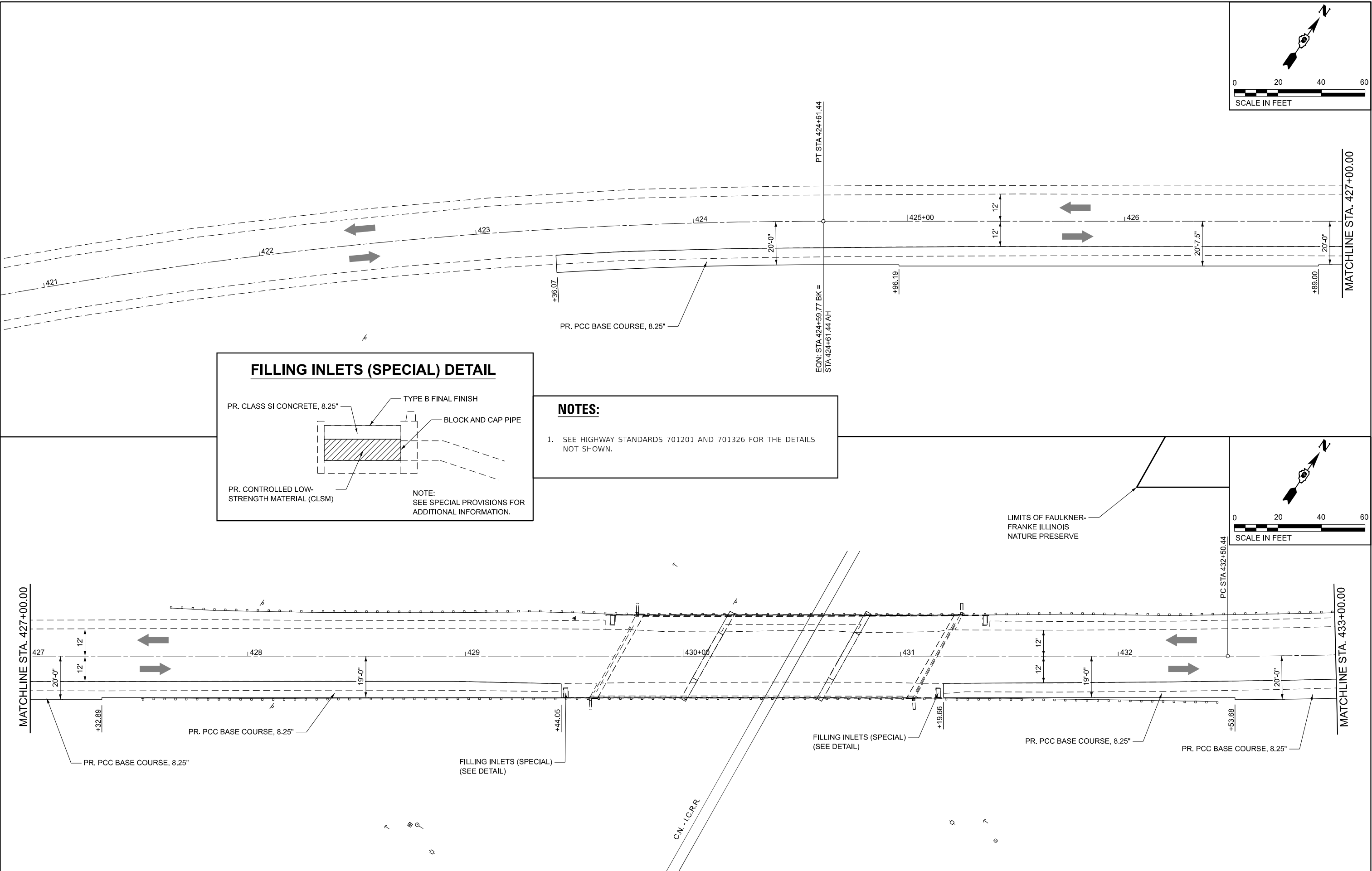
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	42
CONTRACT NO. 78937				
ILLINOIS		FED. AID PROJECT		

1. SEE PRE-STAGE A - STAGING PLAN FOR TRAFFIC CONTROL.

PRE-STAGE A – REMOVAL PLAN US 51					
SCALE: 1"=20'	SHEET 3	OF 3	SHEETS	STA. 433+00.00	TO STA. 438+00.00

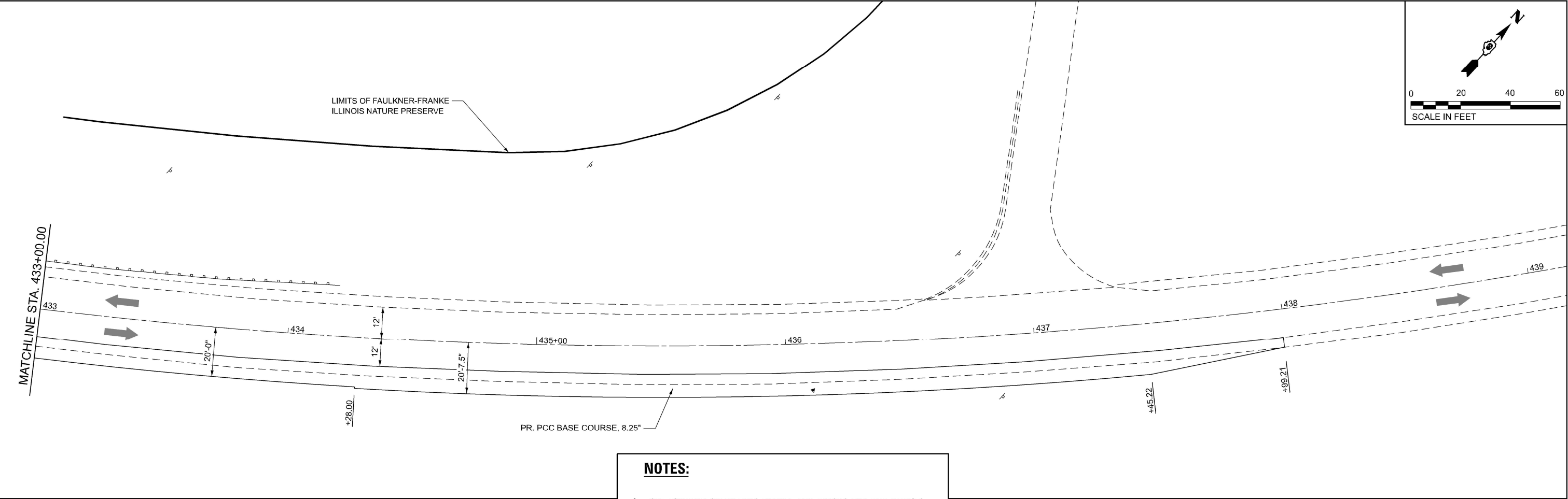
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	43
		CONTRACT NO. 78937		
ILLINOIS		FED. AID PROJECT		

MODEL: Sheet 1
FILE NAME: P:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADDD - DWG\4.7 Tran\CAD_Sheets\078937-51st-staging-Prestage_A.dgn



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	DRAWN - BAB		CHECKED - SJK	REVISED -		322	3VB-3	JACKSON	124	44				
	PLOT SCALE = 40,000' / in.		DATE - 5/2025	REVISED -		SCALE: 1"=20'			CONTRACT NO. 78937					
	PLOT DATE = 8/21/2025					SHEET 1 OF 2 SHEETS			ILLINOIS FED. AID PROJECT					
			STA. 421+00.00 TO STA. 433+00.00											

MODEL: Sheet 2
FILE NAME: C:\2022\12\01\27A - US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 TranCAD Sheets\027B937-sheet-staging-Prestage A.dgn



NOTES:

1. SEE HIGHWAY STANDARDS 701201 AND 701326 FOR THE DETAILS NOT SHOWN.



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USER NAME = bbillhartz	DESIGNED - TBP	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 40,000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

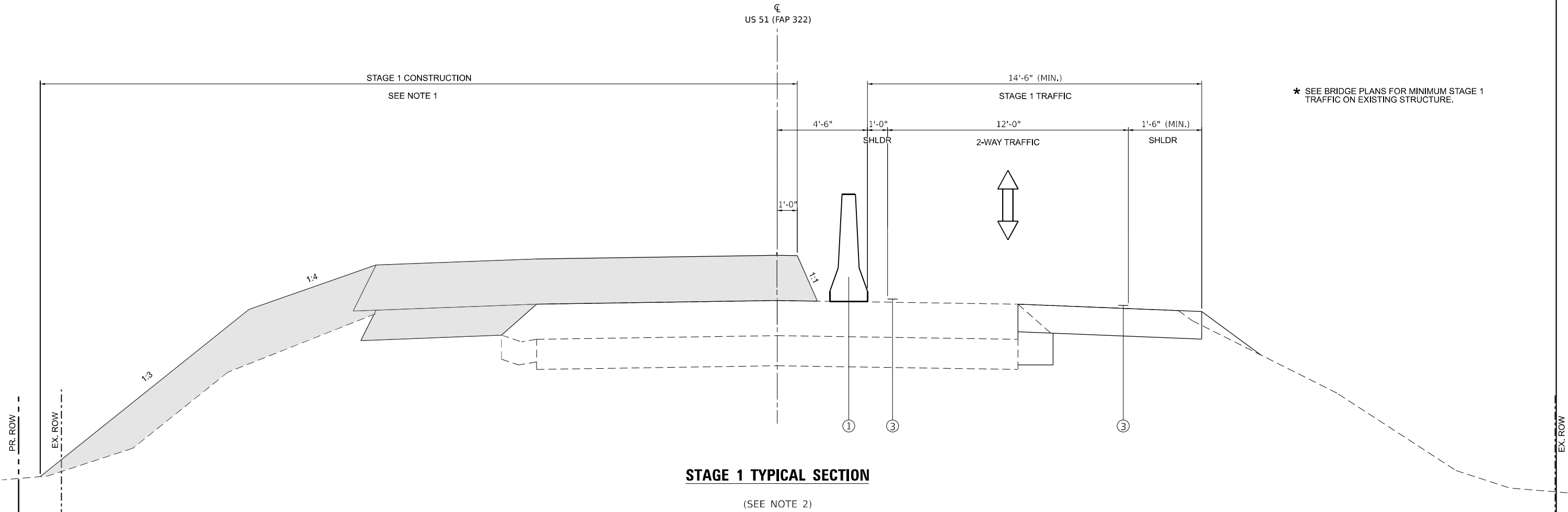
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRE-STAGE A – STAGING PLAN US 51			
SCALE: 1"=20'	SHEET 2	OF 2 SHEETS	STA. 433+00.00 TO STA. 439+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	45
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

NOTES

1. STAGE TYPICAL IS GENERIC FOR STAGE 1 WORK.
2. SEE PROPOSED TYPICAL SECTIONS FOR CONSTRUCTION DETAILS.



STAGE 1 TYPICAL SECTION

(SEE NOTE 2)

STAGE CONSTRUCTION LEGEND

- ① PR. TEMPORARY CONCRETE BARRIER
- ② PR. TEMPORARY CONCRETE BARRIER (PINNED)
- ③ PR. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV, 4"

WORK COMPLETED DURING STAGE CONSTRUCTION
(SEE NOTES)

MODEL: Default
FILE NAME: C:\2022\220127A - US 51 over ICRB Bridge Replacement (Phase II).d CAD - DWG\4.7 Tran\CAD Sheets\0278937-shd\typical-staging.dgn



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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 5,000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025

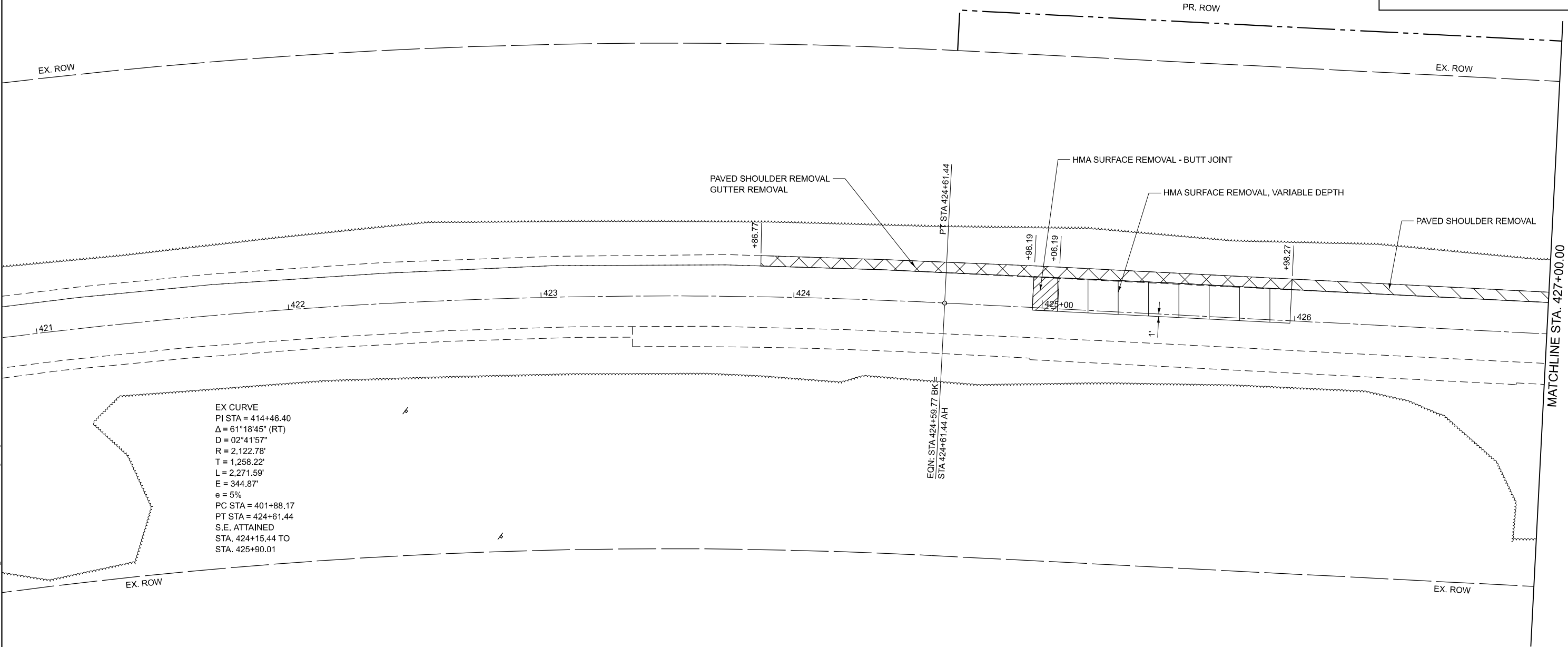
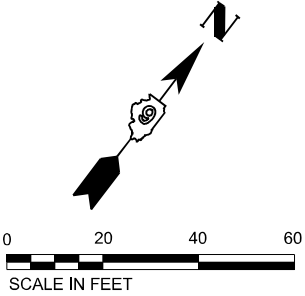
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
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STAGE 1 – STAGING TYPICAL SECTION US 51			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	46
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

10-05-400-020



EX CURVE
PI STA = 414+46.40
 $\Delta = 61^{\circ}18'45''$ (RT)
D = 02'41'57"
R = 2,122.78'
T = 1,258.22'
L = 2,271.59'
E = 344.87'
e = 5%
PC STA = 401+88.17
PT STA = 424+61.44
S.E. ATTAINED
STA. 424+15.44 TO
STA. 425+90.01

- NOTES:
- SEE STAGE 1 - STAGING PLAN FOR TRAFFIC CONTROL.

MODEL: Removal Stage 1
FILE NAME: I:\2022\2020\DATA - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TraCAD Sheets\078937-51stRemovalStage 1.dgn



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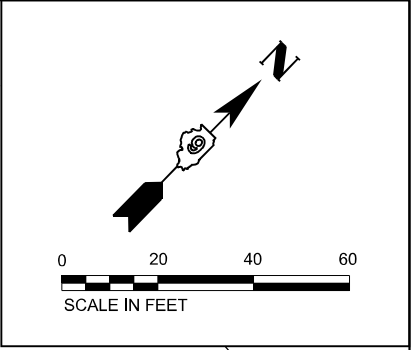
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PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

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DEPARTMENT OF TRANSPORTATION

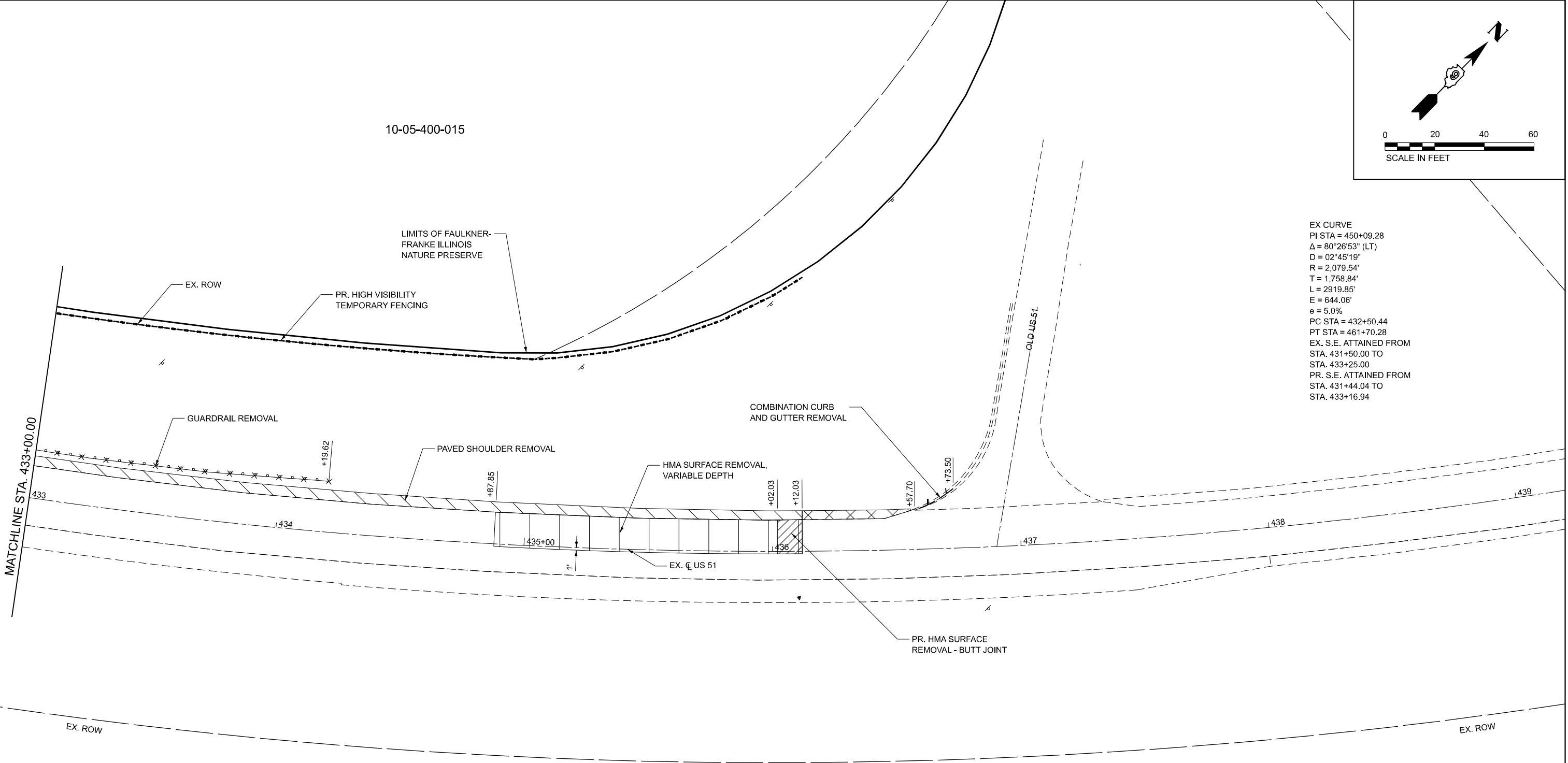
STAGE 1 – REMOVAL PLAN
US 51

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 433+36.07 TO STA. 427+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	47
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



EX CURVE
PI STA = 450+09.28
 Δ = 80°26'53" (LT)
D = 02°45'19"
R = 2,079.54'
T = 1,758.84'
L = 2919.85'
E = 644.06'
e = 5.0%
PC STA = 432+50.44
PT STA = 461+70.28
EX. S.E. ATTAINED FROM
STA. 431+50.00 TO
STA. 433+25.00
PR. S.E. ATTAINED FROM
STA. 431+44.04 TO
STA. 433+16.94



- NOTES:
- SEE STAGE 1 - STAGING PLAN FOR TRAFFIC CONTROL.

MODEL: RemovalSheet3
FILE NAME: J:\2022\2020 DTA - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tran\CAD_Sheets\0978937-51stRemovalStage 1.dgn



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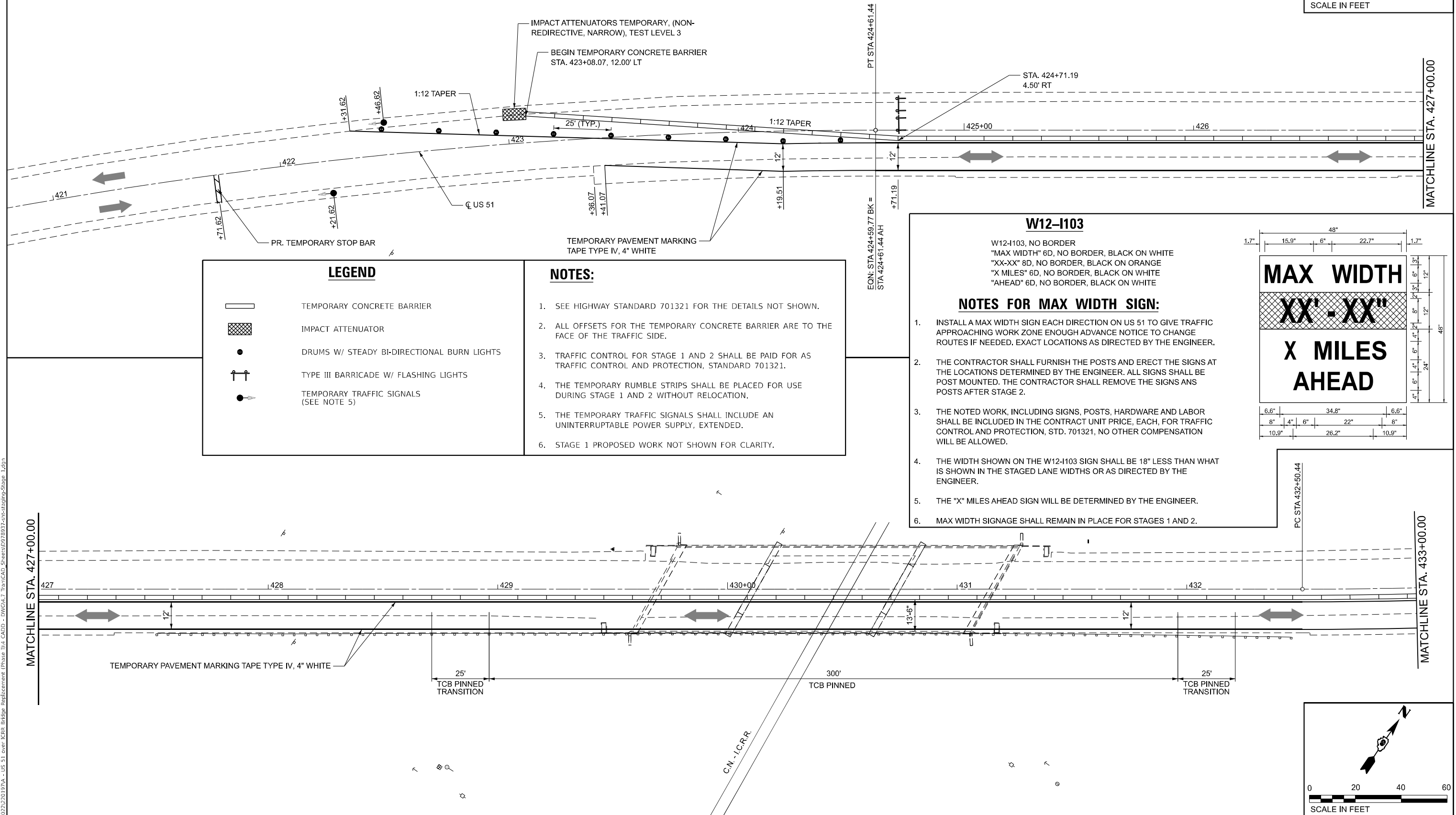
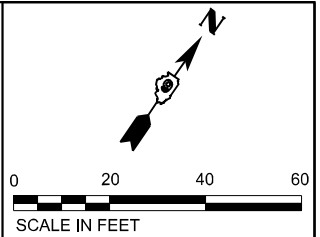
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		DRAWN -	BAB	REVISED -	
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PLOT DATE =	8/21/2025	DATE -	5/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 – REMOVAL PLAN
US 51

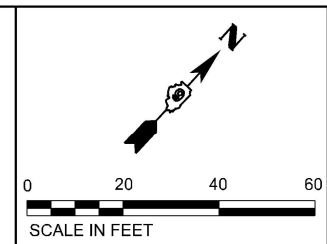
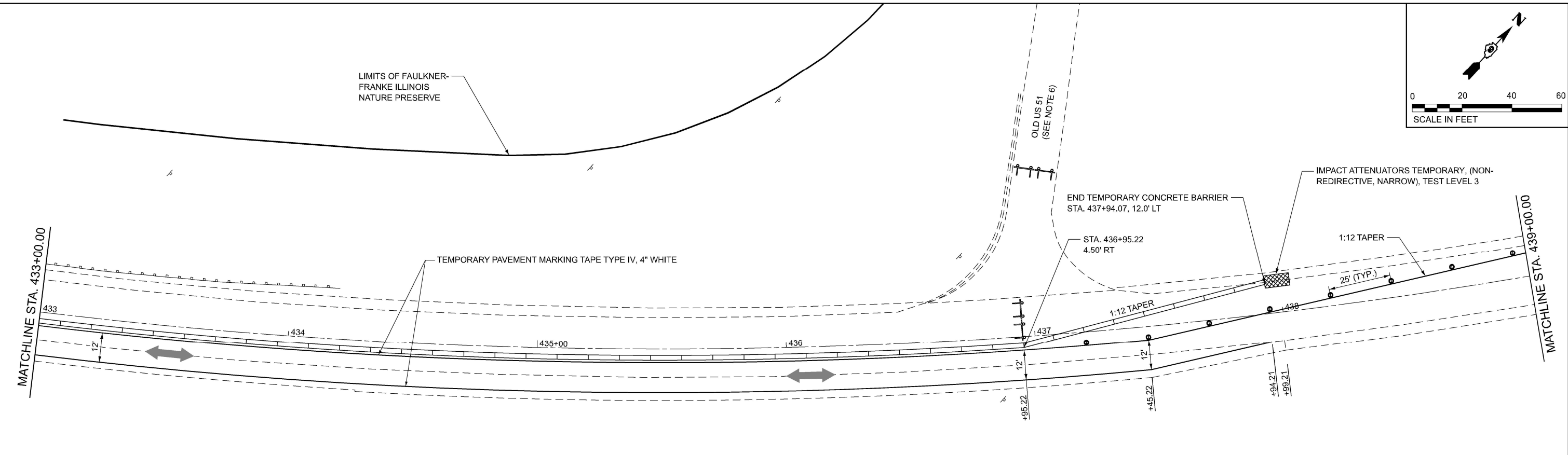
SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. 433+00.00 TO STA. 438+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	49
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



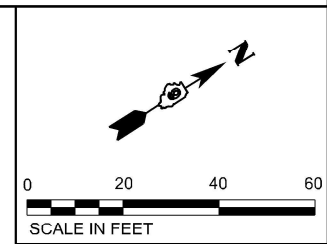
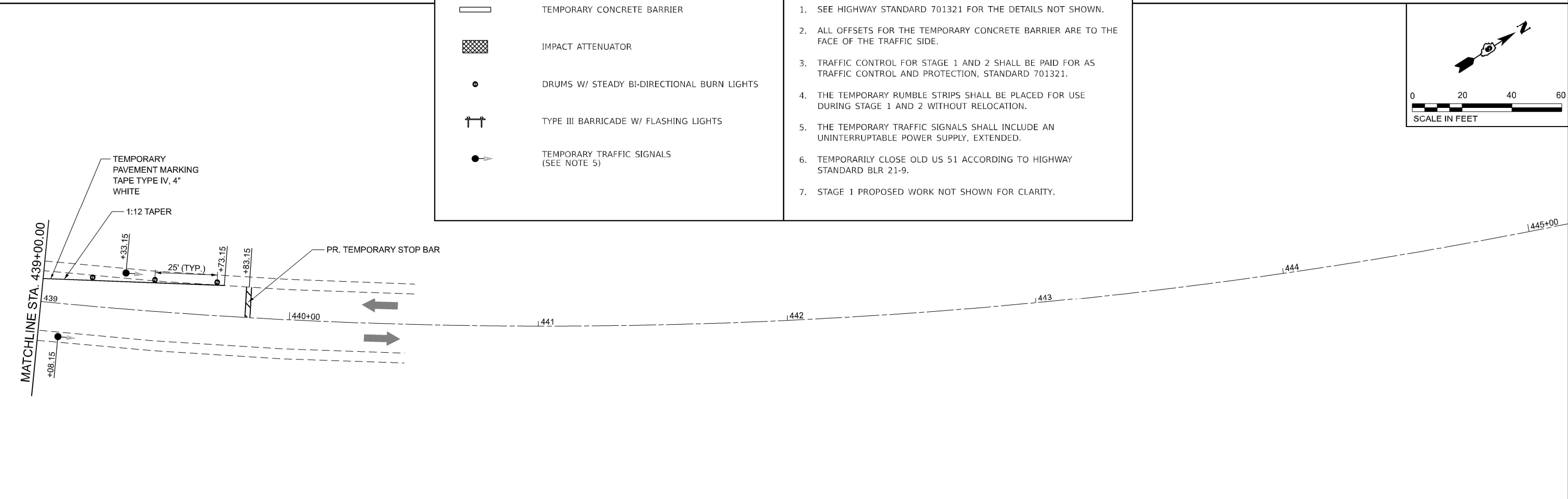
 TWM, INC. www.twm-inc.com IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = bblilhartz	DESIGNED - TBP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 – STAGING PLAN US 51				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,000 ' / in.	DRAWN - BAB	REVISED -						322	3VB-3	JACKSON	124	50
	PLOT DATE = 8/21/2025	CHECKED - SJK	REVISED -		CONTRACT NO. 78937								
	DATE - 5/3/2025	REVISED -	SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 421+00.00 TO STA. 433+00.00				ILLINOIS	FED. AID PROJECT					

MODEL: Sheet 2
FILE NAME: C:\2022\12\01\27A - US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 Tan\CAD Sheets\DW78937-stc-staging-Stage 1.dgn

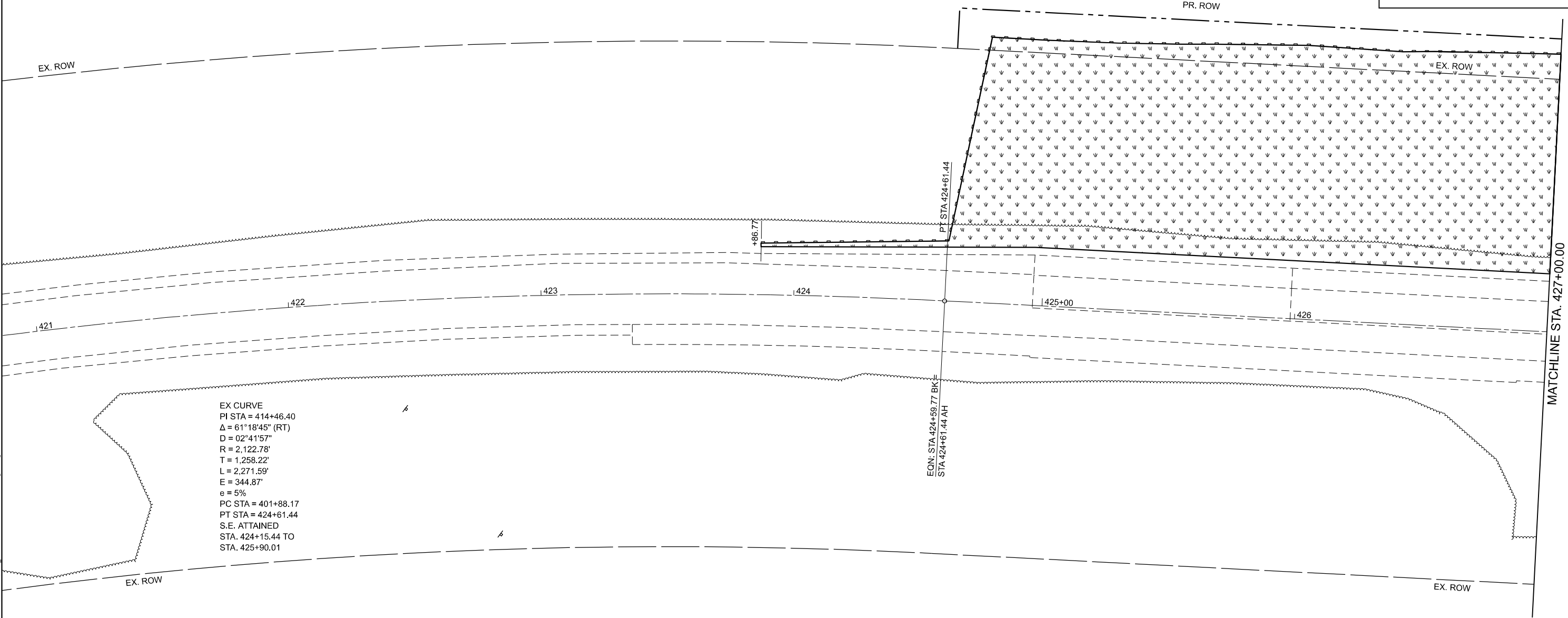
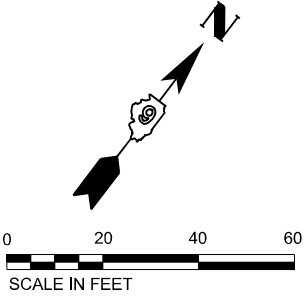


LEGEND	
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	DRUMS W/ STEADY BI-DIRECTIONAL BURN LIGHTS
	TYPE III BARRICADE W/ FLASHING LIGHTS
	TEMPORARY TRAFFIC SIGNALS (SEE NOTE 5)

- NOTES:**
- SEE HIGHWAY STANDARD 701321 FOR THE DETAILS NOT SHOWN.
 - ALL OFFSETS FOR THE TEMPORARY CONCRETE BARRIER ARE TO THE FACE OF THE TRAFFIC SIDE.
 - TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.
 - THE TEMPORARY RUMBLE STRIPS SHALL BE PLACED FOR USE DURING STAGE 1 AND 2 WITHOUT RELOCATION.
 - THE TEMPORARY TRAFFIC SIGNALS SHALL INCLUDE AN UNINTERRUPTABLE POWER SUPPLY, EXTENDED.
 - TEMPORARILY CLOSE OLD US 51 ACCORDING TO HIGHWAY STANDARD BLR 21-9.
 - STAGE 1 PROPOSED WORK NOT SHOWN FOR CLARITY.



10-05-400-020



EX CURVE
PI STA = 414+46.40
Δ = 61°18'45" (RT)
D = 02°41'57"
R = 2,122.78'
T = 1,258.22'
L = 2,271.59'
E = 344.87'
e = 5%
PC STA = 401+88.17
PT STA = 424+61.44
S.E. ATTAINED
STA. 424+15.44 TO
STA. 425+90.01

LEGEND



PR. SEEDING CLASS, 2A AND
PR. SEEDING, CLASS 7
W/ FERTILIZER NUTRIENTS
PR. EROSION CONTROL BLANKET



PR. PERIMETER EROSION BARRIER



PR. STONE RIPRAP, CLASS A4

MODEL: Erosion Control Sheet 1
FILE NAME: D:\2022\2023\2024\US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 TranCAD Sheets\078937-51stEros-Stage 1.dgn



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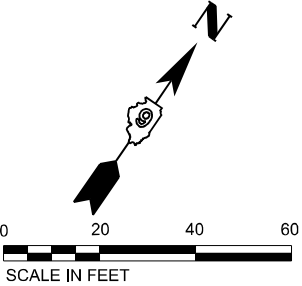
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	DRAWN - BAB	REVISED -
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PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 – EROSION CONTROL PLAN			
US 51			
SCALE: 1"=20'	SHEET 1	OF 3 SHEETS	STA. 433+36.07 TO STA. 427+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	52
CONTRACT NO. 78937				
ILLINOIS FED.AID PROJECT				

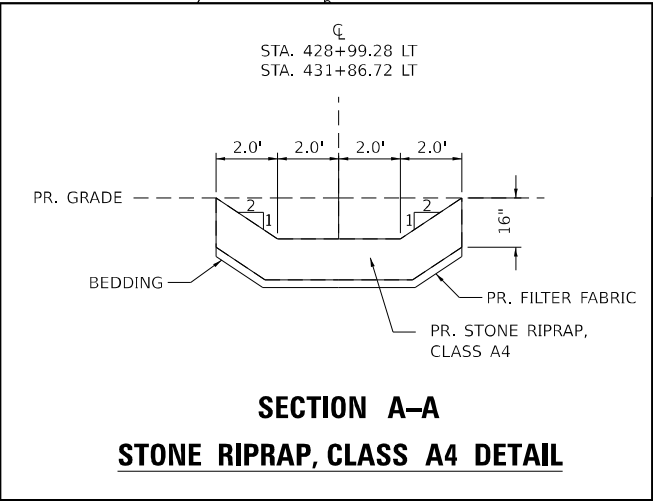
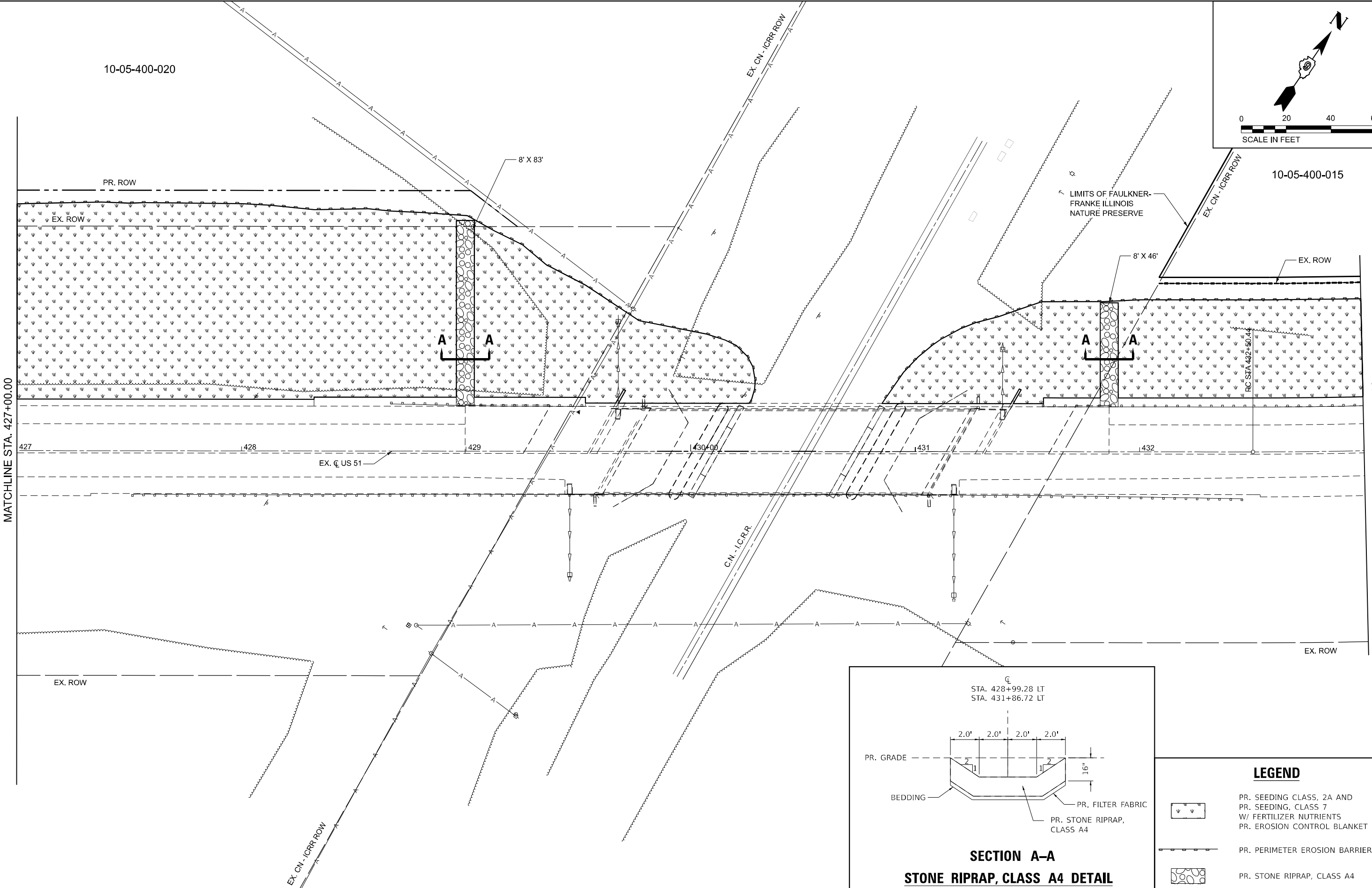
10-05-400-020



10-05-400-015

MATCHLINE STA. 427+00.00

MATCHLINE STA. 433+00.00



LEGEND

- PR. SEEDING CLASS, 2A AND PR. SEEDING, CLASS 7 W/ FERTILIZER NUTRIENTS
- PR. EROSION CONTROL BLANKET
- PR. PERIMETER EROSION BARRIER
- PR. STONE RIPRAP, CLASS A4



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CHECKED -	SJK
DATE -	5/2025

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 – EROSION CONTROL PLAN
US 51

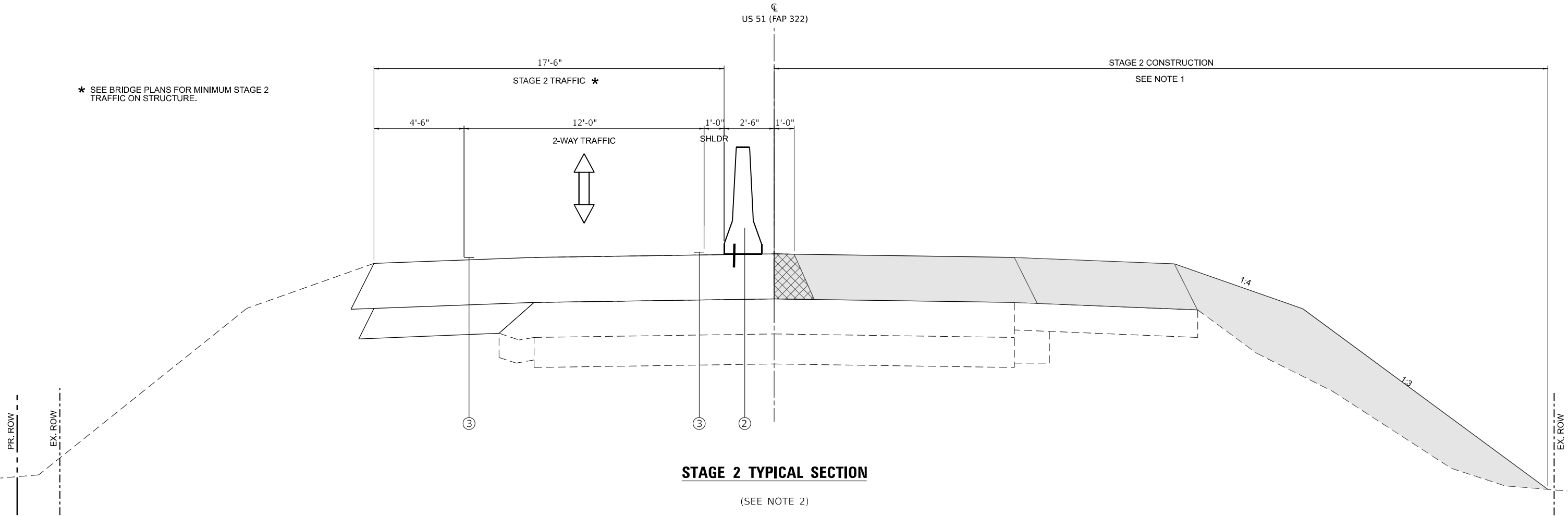
SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. 427+00.00 TO STA. 433+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	53
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

NOTES

1. STAGE TYPICAL IS GENERIC FOR STAGE 2 WORK.
2. SEE PROPOSED TYPICAL SECTIONS FOR CONSTRUCTION DETAILS.

★ SEE BRIDGE PLANS FOR MINIMUM STAGE 2 TRAFFIC ON STRUCTURE.



STAGE 2 TYPICAL SECTION

(SEE NOTE 2)

STAGE CONSTRUCTION LEGEND

- ① PR. TEMPORARY CONCRETE BARRIER
- ② PR. TEMPORARY CONCRETE BARRIER (PINNED)
- ③ PR. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV, 4"

-  PAVEMENT REMOVAL
-  WORK COMPLETED DURING STAGE CONSTRUCTION (SEE NOTES)

MODEL: Default
FILE NAME: C:\2022\220127A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD Sheets\0278937-sheet\staging.dgn



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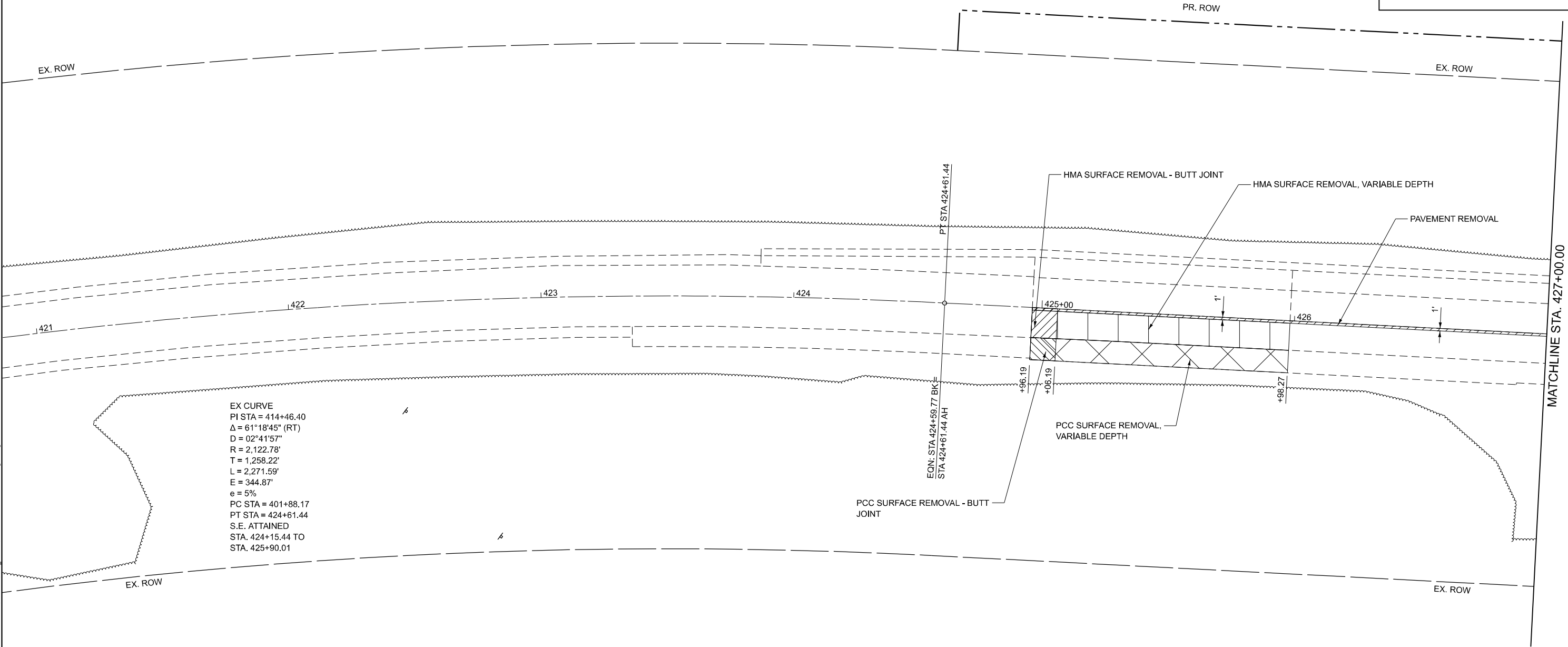
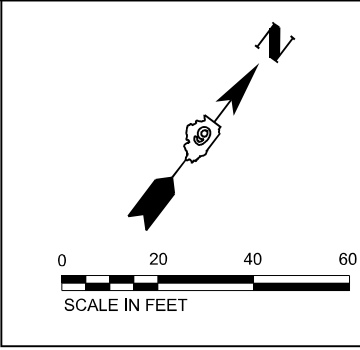
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DATE -	5/2025	REVIS		REVISED -	
PLOT SCALE =	5,000 ' / in.				
PLOT DATE =	8/21/2025				

STATE OF ILLINOIS
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STAGE 2 – STAGING TYPICAL SECTION			
US 51			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	55
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

10-05-400-020



EX CURVE
PI STA = 414+46.40
Δ = 61°18'45" (RT)
D = 02°41'57"
R = 2,122.78'
T = 1,258.22'
L = 2,271.59'
E = 344.87'
e = 5%
PC STA = 401+88.17
PT STA = 424+61.44
S.E. ATTAINED
STA. 424+15.44 TO
STA. 425+90.01

- NOTES:
- 1. SEE STAGE 2 - STAGING PLAN FOR TRAFFIC CONTROL.

MODEL: Removal Stage 1
FILE NAME: 10-05-400-020.DWG
PROJECT: US 51 over ICRB Bridge Replacement (Phase II) 4 CADD - DWG 14.7 TranCAD Sheets/D978937-51stRemovalStage 2.dgn



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USER NAME = bbillhartz	DESIGNED - TBP	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 40,00000000 * / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

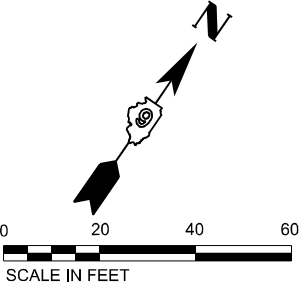
STATE OF ILLINOIS
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STAGE 2 – REMOVAL PLAN
US 51

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 433+36.07 TO STA. 427+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	56
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

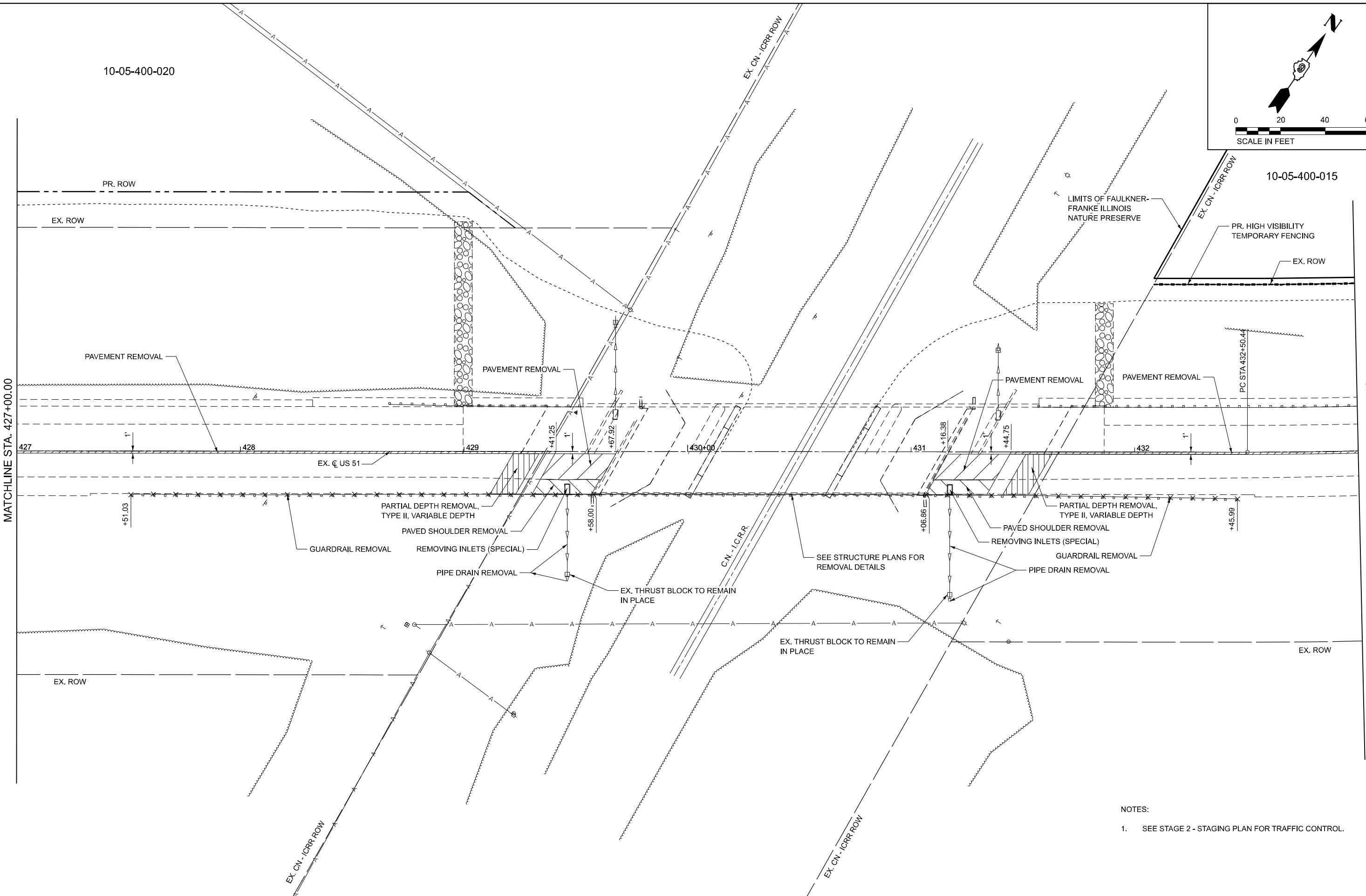
10-05-400-020



10-05-400-015

MATCHLINE STA. 427+00.00

MATCHLINE STA. 433+00.00



- NOTES:
- SEE STAGE 2 - STAGING PLAN FOR TRAFFIC CONTROL.

MODEL: Removal Stage 2
FILE NAME: 10-05-400-020.DWG
US 51 over ICRR Bridge Replacement (Phase II) 4 CADD - DWG 4.7 TraCAD Sheets 0978937-51st-Removal Stage 2.dgn



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184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 40,000,000.000 * / in.
PLOT DATE	= 8/21/2025

DESIGNED	- TBP
DRAWN	- BAB
CHECKED	- SJK
DATE	- 5/2025

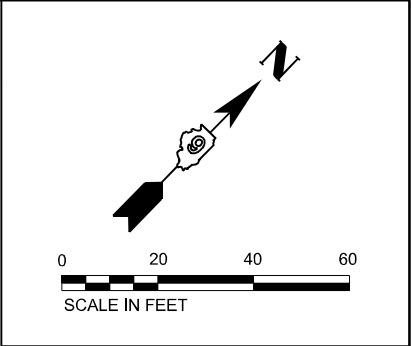
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REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

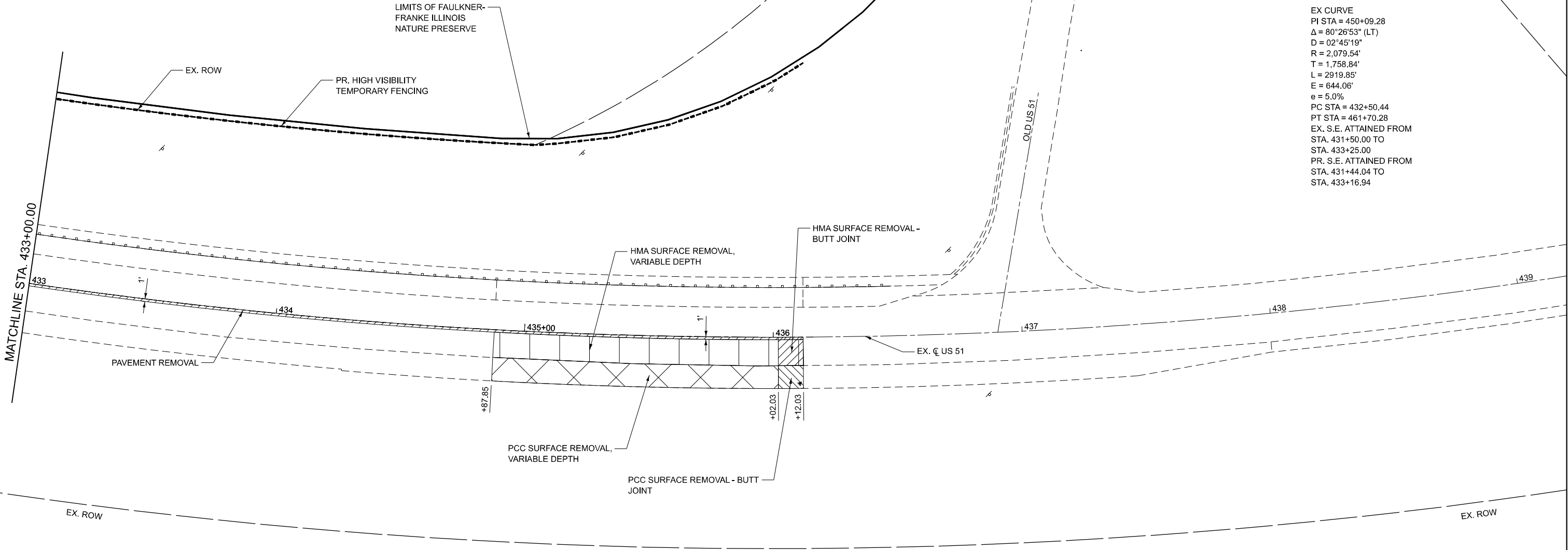
STAGE 2 – REMOVAL PLAN
US 51

SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. 427+00.00 TO STA. 433+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	57
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



EX CURVE
PI STA = 450+09.28
 Δ = 80°26'53" (LT)
D = 02°45'19"
R = 2,079.54'
T = 1,758.84'
L = 2919.85'
E = 644.06'
e = 5.0%
PC STA = 432+50.44
PT STA = 461+70.28
EX. S.E. ATTAINED FROM
STA. 431+50.00 TO
STA. 433+25.00
PR. S.E. ATTAINED FROM
STA. 431+44.04 TO
STA. 433+16.94



- NOTES:
- SEE STAGE 2 - STAGING PLAN FOR TRAFFIC CONTROL.

MODEL: RemovalSheet3
FILE NAME: J:\2022\2020 DTA - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tra\CAD_Sheets\0978937-51stRemovalStage 2.dgn



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184-001220

USER NAME =	bbillhartz
DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025
PLOT SCALE =	40,000000 ' / in.
PLOT DATE =	8/21/2025

REVISED -	
REVISED -	
REVISED -	
REVISED -	

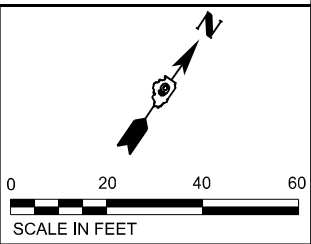
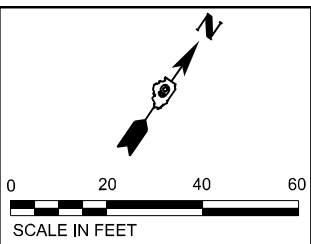
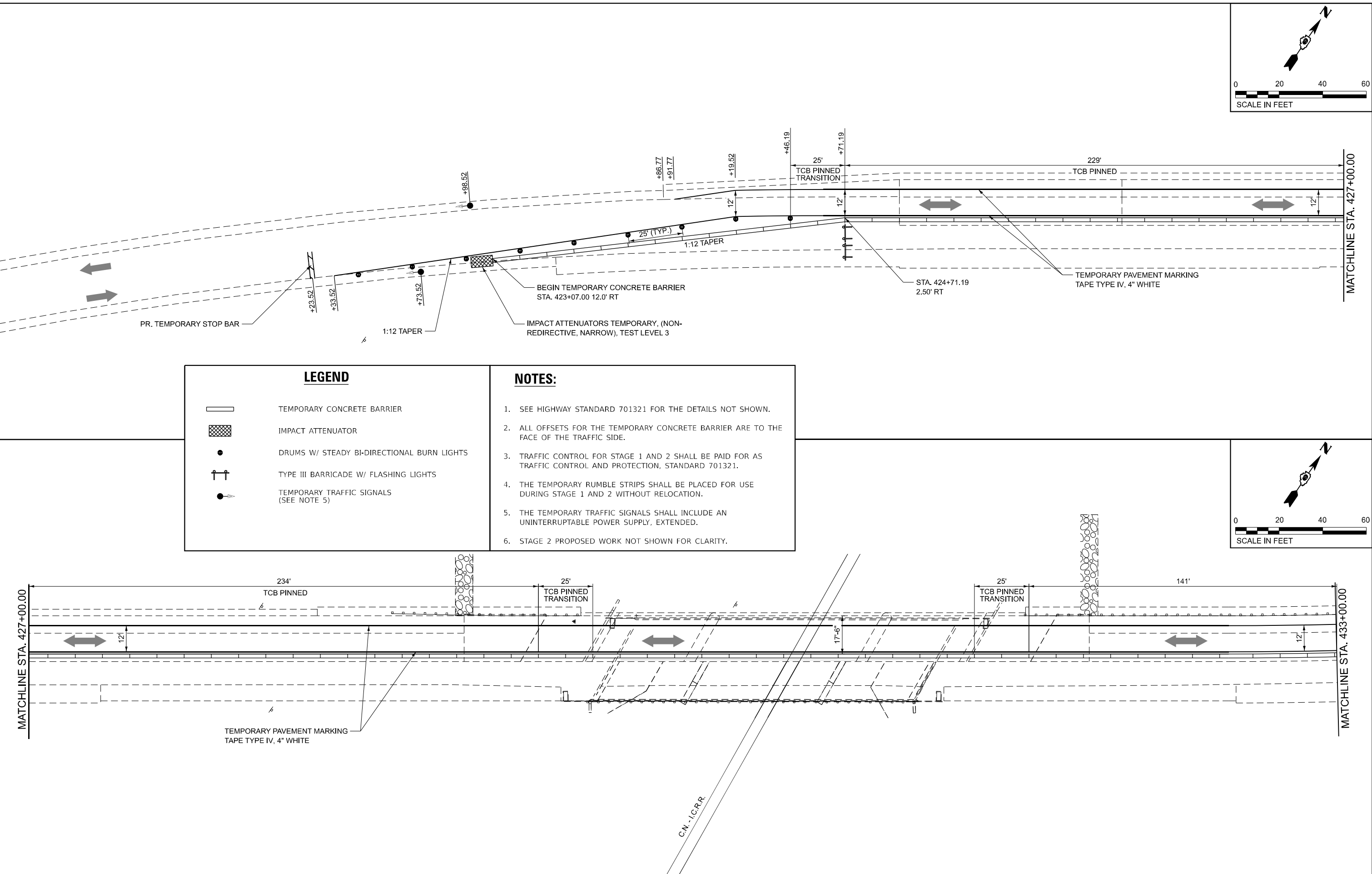
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DEPARTMENT OF TRANSPORTATION

STAGE 2 – REMOVAL PLAN
US 51

SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. 433+00.00 TO STA. 438+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	58
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet 1
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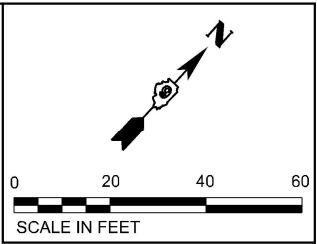
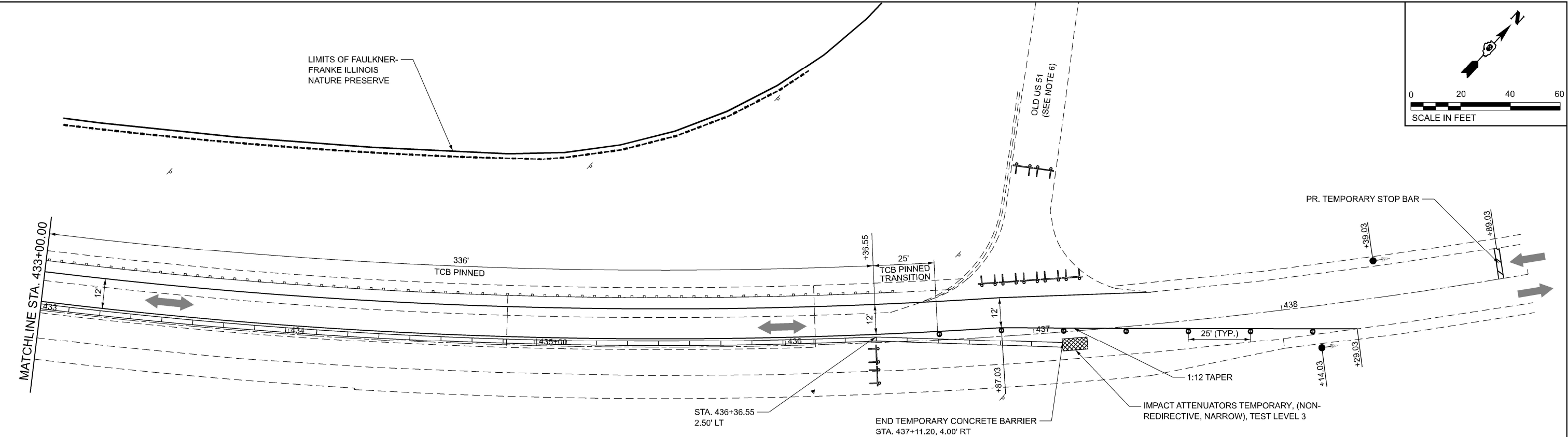
LEGEND

- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- DRUMS W/ STEADY BI-DIRECTIONAL BURN LIGHTS
- TYPE III BARRICADE W/ FLASHING LIGHTS
- TEMPORARY TRAFFIC SIGNALS (SEE NOTE 5)

NOTES:

- SEE HIGHWAY STANDARD 701321 FOR THE DETAILS NOT SHOWN.
- ALL OFFSETS FOR THE TEMPORARY CONCRETE BARRIER ARE TO THE FACE OF THE TRAFFIC SIDE.
- TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.
- THE TEMPORARY RUMBLE STRIPS SHALL BE PLACED FOR USE DURING STAGE 1 AND 2 WITHOUT RELOCATION.
- THE TEMPORARY TRAFFIC SIGNALS SHALL INCLUDE AN UNINTERRUPTABLE POWER SUPPLY, EXTENDED.
- STAGE 2 PROPOSED WORK NOT SHOWN FOR CLARITY.

MODEL: Sheet 2
FILE NAME: C:\32022\120197A - US 51 over ICRB Bridge Replacement (Phase II)4 CAD - DWG\4.7 TranCAD Sheets\0978937-sheet-staging-Stage 2.dgn



LEGEND

- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- DRUMS W/ STEADY BI-DIRECTIONAL BURN LIGHTS
- TYPE III BARRICADE W/ FLASHING LIGHTS
- TEMPORARY TRAFFIC SIGNALS (SEE NOTE 5)

NOTES:

- SEE HIGHWAY STANDARD 701321 FOR THE DETAILS NOT SHOWN.
- ALL OFFSETS FOR THE TEMPORARY CONCRETE BARRIER ARE TO THE FACE OF THE TRAFFIC SIDE.
- TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.
- THE TEMPORARY RUMBLE STRIPS SHALL BE PLACED FOR USE DURING STAGE 1 AND 2 WITHOUT RELOCATION.
- THE TEMPORARY TRAFFIC SIGNALS SHALL INCLUDE AN UNINTERRUPTABLE POWER SUPPLY, EXTENDED.
- TEMPORARILY CLOSE OLD US 51 ACCORDING TO HIGHWAY STANDARD BLR 21-9.
- STAGE 2 PROPOSED WORK NOT SHOWN FOR CLARITY.



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LICENSE NO:
184-001220

USER NAME = bbillhartz
PLOT SCALE = 40,000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

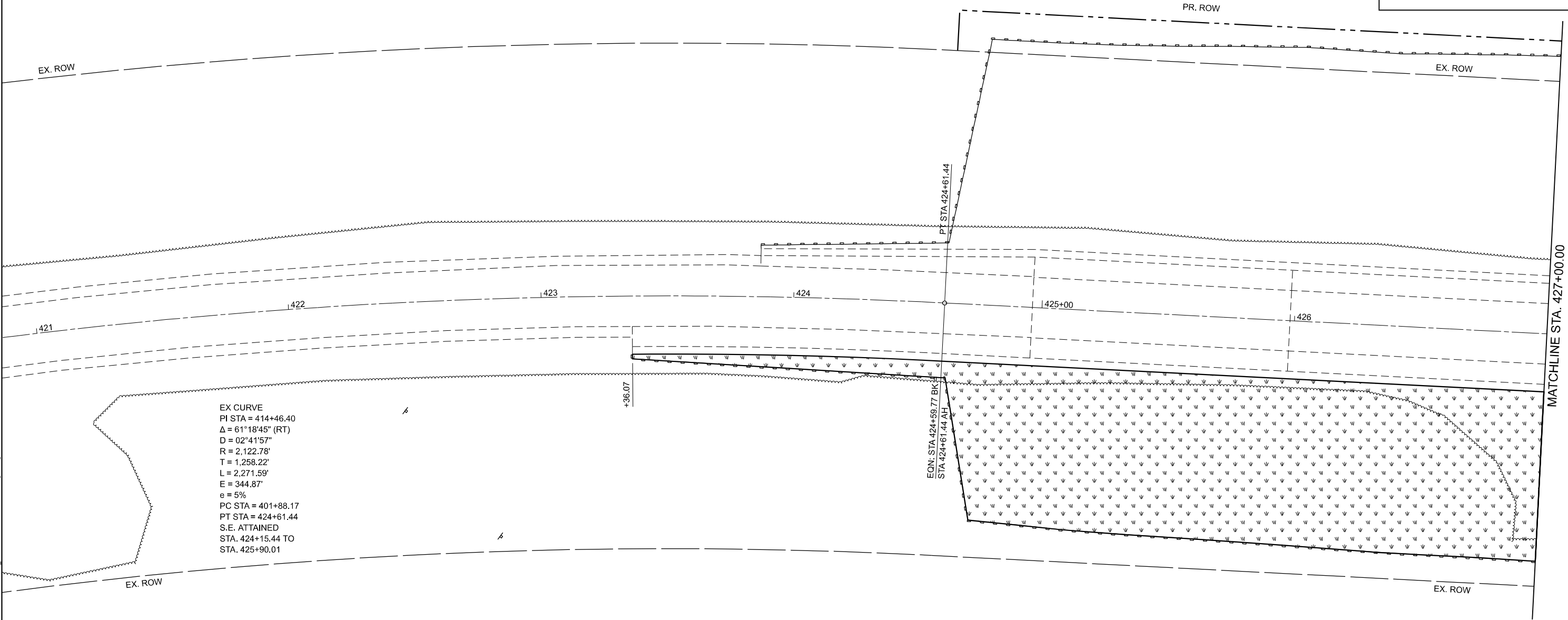
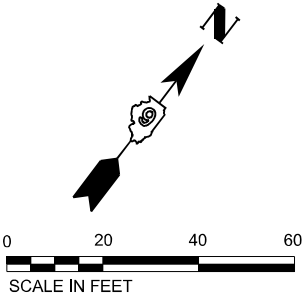
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 – STAGING PLAN
US 51

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 433+00.00 TO STA. 445+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	60
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

10-05-400-020



EX CURVE
PI STA = 414+46.40
 $\Delta = 61^{\circ}18'45''$ (RT)
D = $02^{\circ}41'57''$
R = 2,122.78'
T = 1,258.22'
L = 2,271.59'
E = 344.87'
e = 5%
PC STA = 401+88.17
PT STA = 424+61.44
S.E. ATTAINED
STA. 424+15.44 TO
STA. 425+90.01

LEGEND



PR. SEEDING CLASS, 2A AND
PR. SEEDING, CLASS 7
W/ FERTILIZER NUTRIENTS
PR. EROSION CONTROL BLANKET



PR. PERIMETER EROSION BARRIER



PR. STONE RIPRAP, CLASS A4

MODEL: Erosion Control Sheet 1
FILE NAME: D:\2022\2023\2024\US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 TranCAD Sheets\078937-5htEros-Stage 2.dgn



TWM, INC.
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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = bbillhartz
PLOT SCALE = 40,00000000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

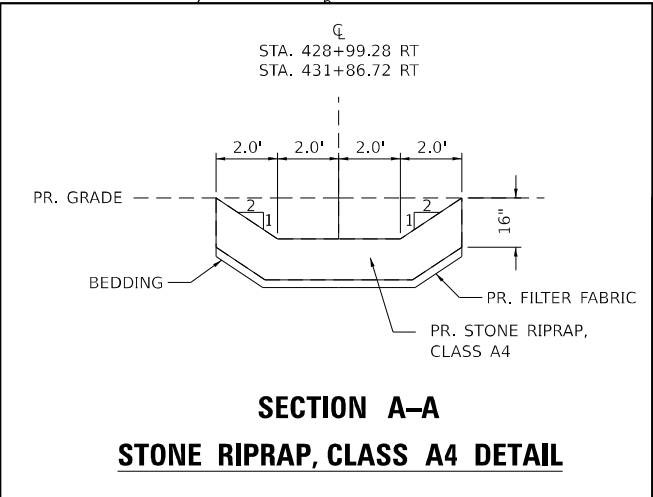
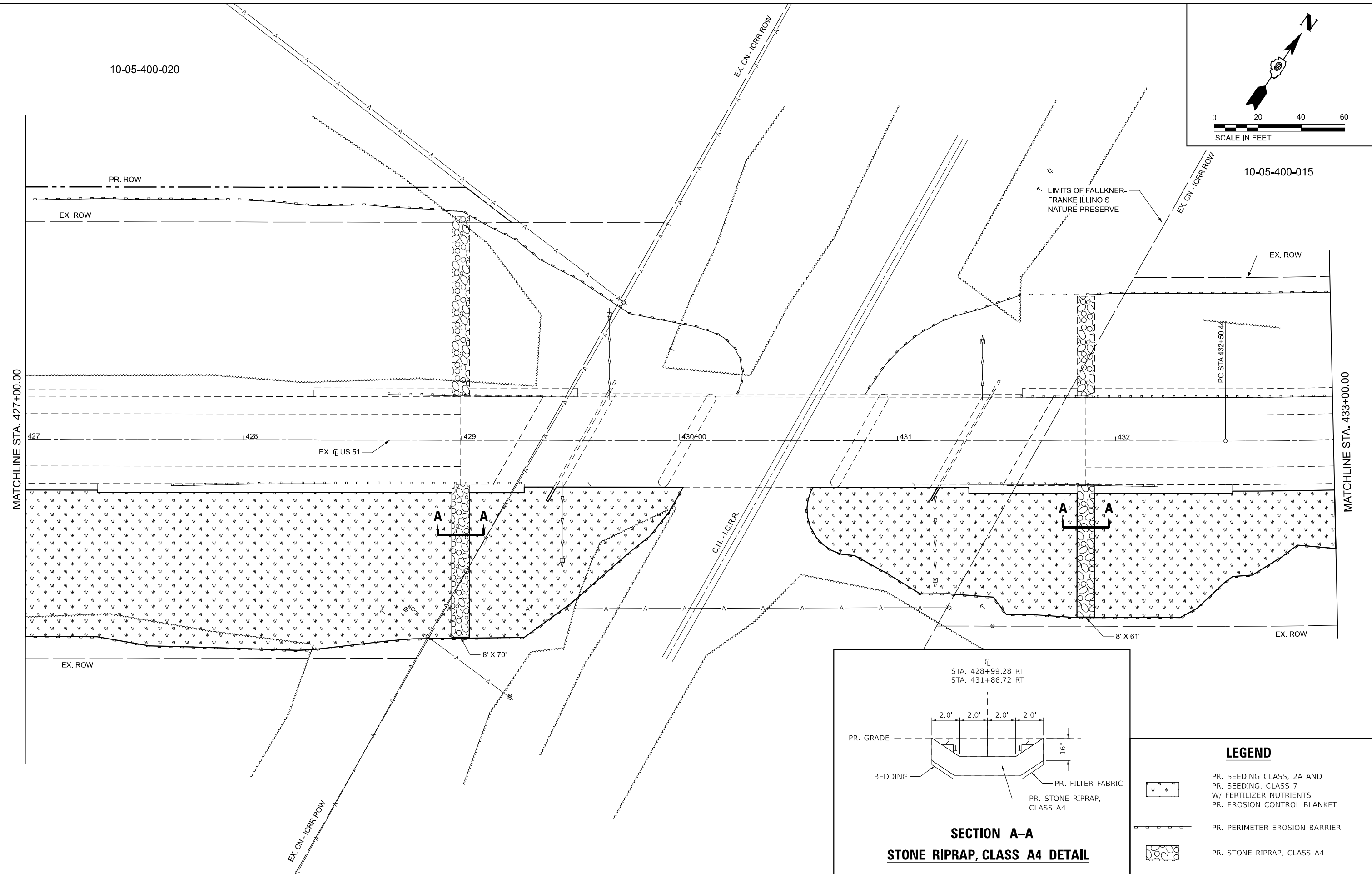
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 – EROSION CONTROL PLAN
US 51

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 433+36.07 TO STA. 427+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	61
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Erosion Control Sheet 2
FILE NAME: D:\2022\2023\2024\US 51 over ICRR Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tra\ICRR_Sheets\0978937-5\htForStage 2.dgn



LEGEND				
	PR. SEEDING CLASS, 2A AND PR. SEEDING, CLASS 7 W/ FERTILIZER NUTRIENTS			
	PR. EROSION CONTROL BLANKET			
	PR. PERIMETER EROSION BARRIER			
	PR. STONE RIPRAP, CLASS A4			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	62
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

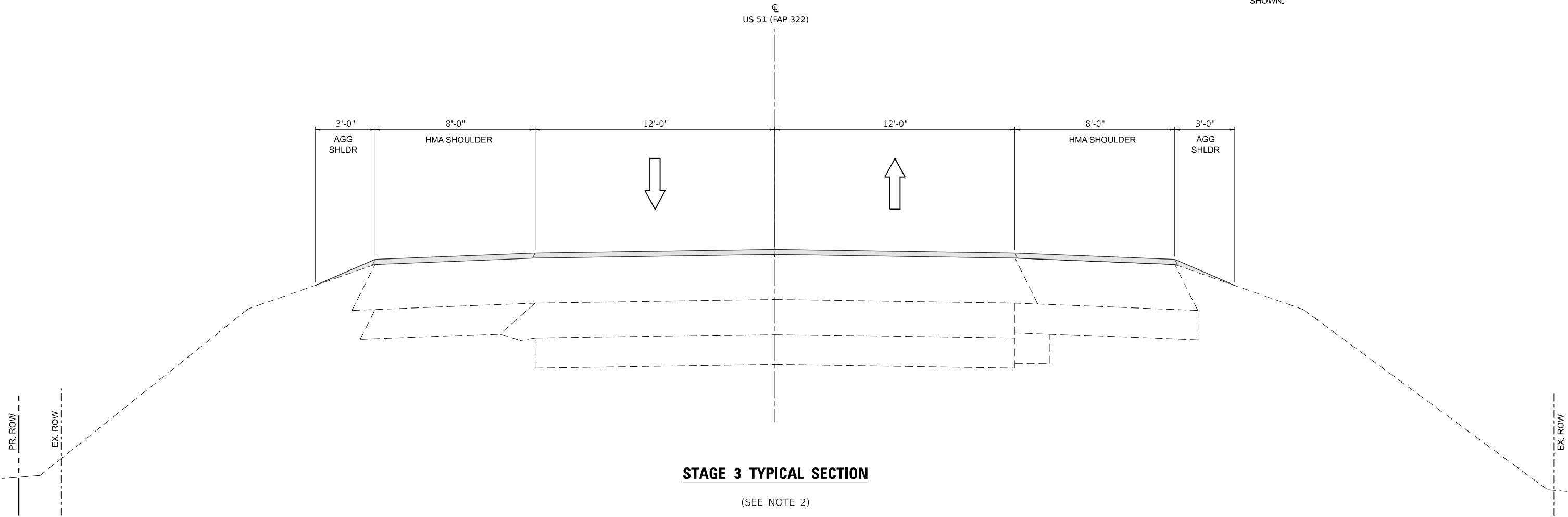
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	PLOT DATE = 8/21/2025			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 – EROSION CONTROL PLAN				
US 51				
SCALE: 1"=20'	SHEET 2	OF 3	SHEETS	STA. 427+00.00 TO STA. 433+00.00

NOTES

1. STAGE TYPICAL IS GENERIC FOR STAGE 3 WORK.
2. SEE PROPOSED TYPICAL SECTIONS FOR CONSTRUCTION DETAILS.
3. SEE HIGHWAY STANDARDS 701306 AND 701311 FOR DETAILS NOT SHOWN.



STAGE CONSTRUCTION LEGEND

- ① PR. TEMPORARY CONCRETE BARRIER
- ② PR. TEMPORARY CONCRETE BARRIER (PINNED)
- ③ PR. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV, 4"

WORK COMPLETED DURING STAGE CONSTRUCTION
(SEE NOTES)

MODEL: Default
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LICENSE NO:
184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 5,000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025

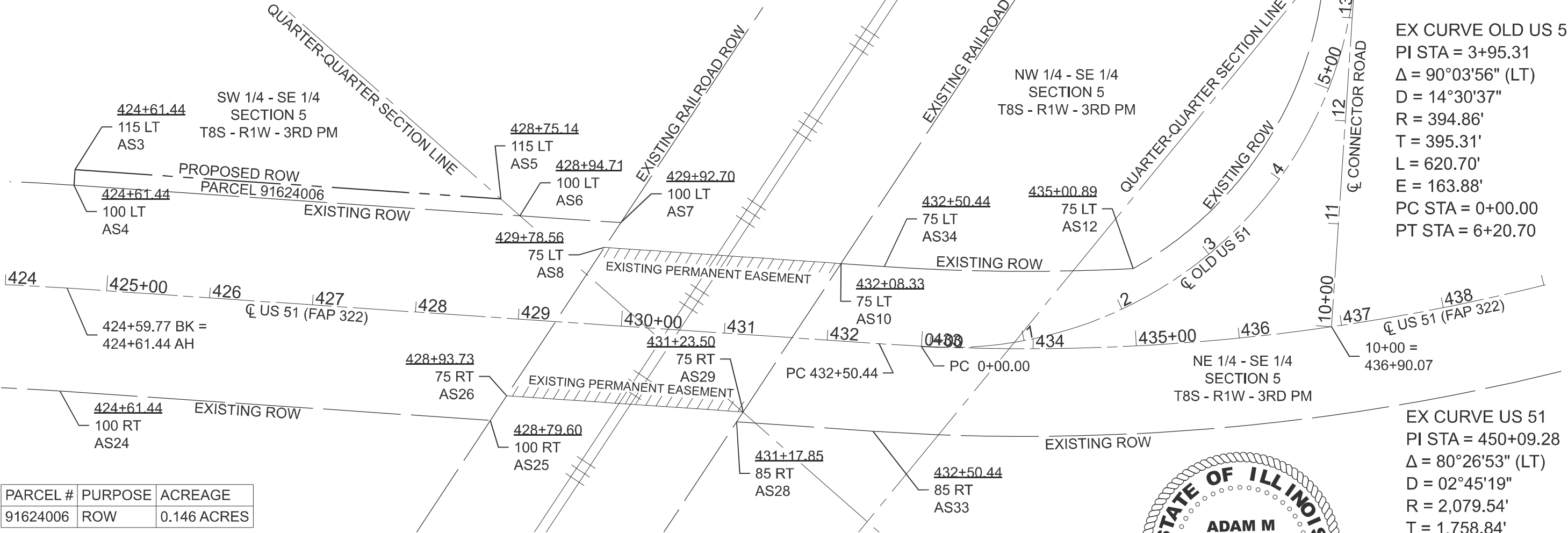
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 3 – STAGING TYPICAL SECTION US 51			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

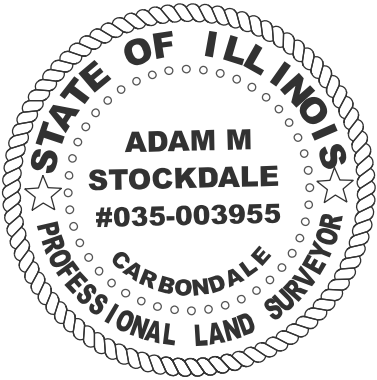
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322	3VB-3	JACKSON	124	64
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

COORDINATE DATA										
POINT #	NORTHING	EASTING	STATION	OFFSET		POINT #	NORTHING	EASTING	STATION	OFFSET
AS3	432755.656'	724324.274'	424+61.44	100 LT		AS13	433674.589'	725143.232'	6+20.70	30 LT
AS4	432768.031'	724315.797'	424+61.44	115 LT		AS24	432590.658'	724437.303'	424+61.44	100 RT
AS5	433001.830'	724657.092'	428+75.14	115 LT		AS25	432826.975'	724782.275'	428+79.60	100 RT
AS6	433000.515'	724681.715'	428+94.71	100 LT		AS26	432855.590'	724779.810'	428+93.73	75 RT
AS7	433055.895'	724762.557'	429+92.70	100 LT		AS28	432973.996'	724970.352'	431+17.85	85 RT
AS8	433027.280'	724765.021'	429+78.56	75 LT		AS29	432985.152'	724969.391'	431+23.50	75 RT
AS10	433157.132'	724954.577'	432+08.33	75 LT		AS33	433048.931'	725079.740'	432+50.44	85 RT
AS12	433329.014'	725179.795'	435+00.89	75 LT		AS34	433180.929'	724989.317'	432+50.44	75 LT



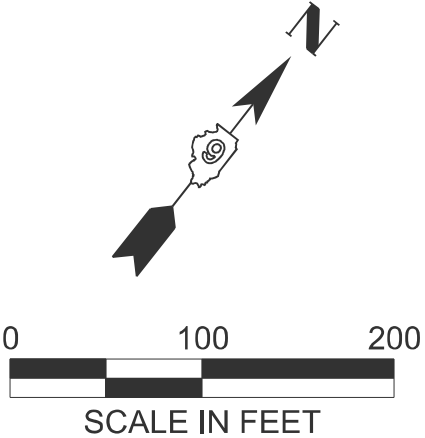
PARCEL #	PURPOSE	ACREAGE
91624006	ROW	0.146 ACRES

ALIGNMENT INFO					
CENTERLINE US 51 (FAP 332)			CENTERLINE OLD US 51		
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
PC 401+88.17	430710.127'	723468.276'	POT 10+00	433403.863'	725365.536'
PT 424+59.77 = PT 424+61.44	432673.157'	724380.789'	POT 13+49.02	433691.571'	725167.962'
PC 432+50.44	433119.055'	725031.703'			
PT 461+70.29	435708.917'	725743.297'			
COORDINATES BASED ON NAD83 (97ADJ) ILLINOIS EAST ZONE			CENTERLINE CONNECTOR (US 51 TO OLD US 51)		
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
PC 0+00	433142.286'	725065.615'	PT 6+20.70	433691.571'	725167.962'



ADAM M STOCKDALE
ILLINOIS PROFESSIONAL LAND SURVEYOR

CURRENT LICENSE EXPIRES 11/30/2026
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT
ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY



MODEL: US 51 (Sheet)
FILE NAME: c:\p\work\p\w\illstockdale\m\1154865\0978937-Sht K-ROW.dgn

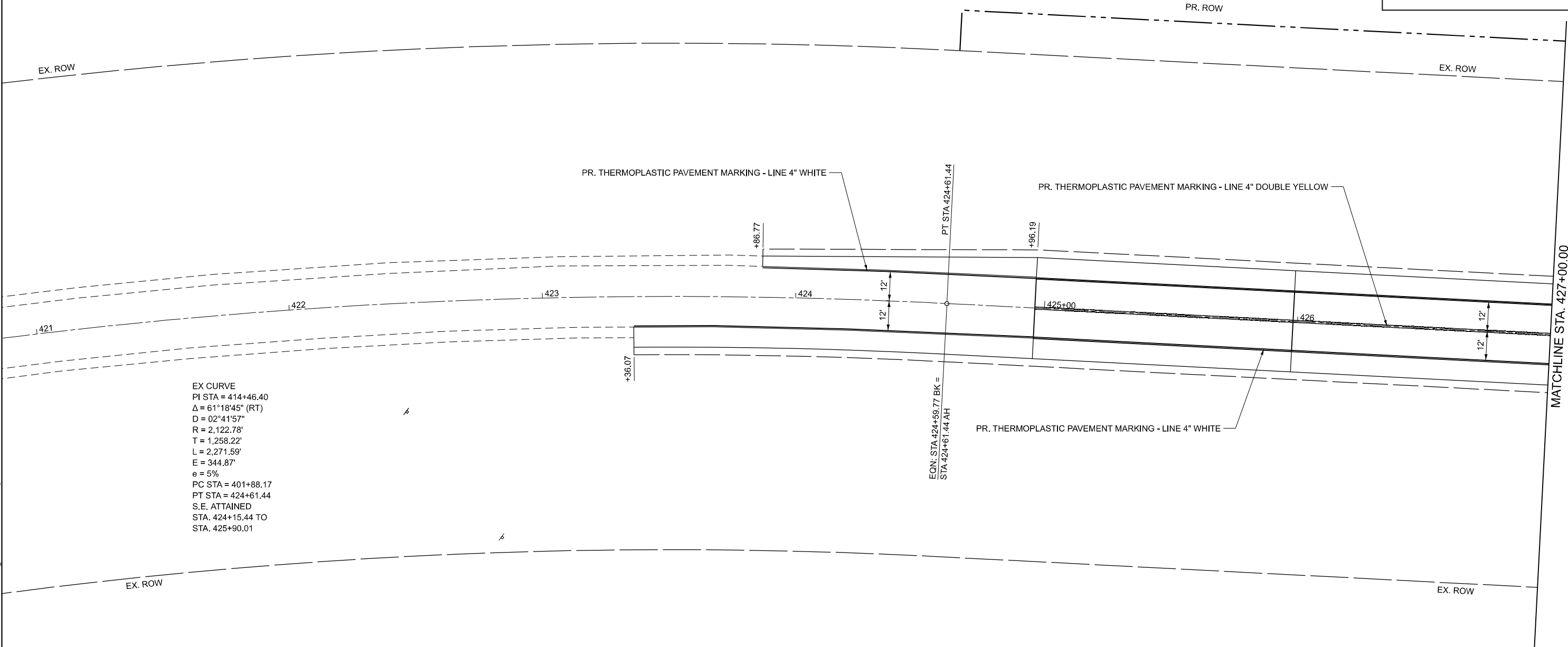
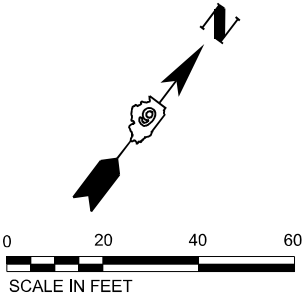
USER NAME = adam.stockdale	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/28/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS		
PROJECT	JOB NO. R-99-016-24	
SCALE: 1" = 100FT	SHEET 1 OF 1 SHEETS	STA. 424+61 TO STA. 438+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	65
US 51: SECTION 5 - T8S - R1W		CONTRACT NO. 78937		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

10-05-400-020



EX CURVE
PI STA = 414+46.40
 $\Delta = 61^{\circ}18'45''$ (RT)
D = $02^{\circ}41'57''$
R = 2,122.78'
T = 1,258.22'
L = 2,271.59'
E = 344.87'
e = 5%
PC STA = 401+88.17
PT STA = 424+61.44
S.E. ATTAINED
STA. 424+15.44 TO
STA. 425+90.01

MODEL: Pavement Marking Sheet 1
FILE NAME: P:\2025\20250127\A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tra\CAD_Sheets\078937-51crbmk.dgn



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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME =	bbillhartz	DESIGNED -	TBP	REVISED -	
		DRAWN -	BAB	REVISED -	
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PLOT DATE =	8/21/2025	DATE -	5/2025	REVISED -	

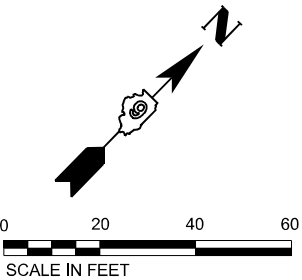
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNAGE PLAN			
US 51			
SCALE: 1"=20'	SHEET 1	OF 3 SHEETS	STA. 433+36.07 TO STA. 427+00.00

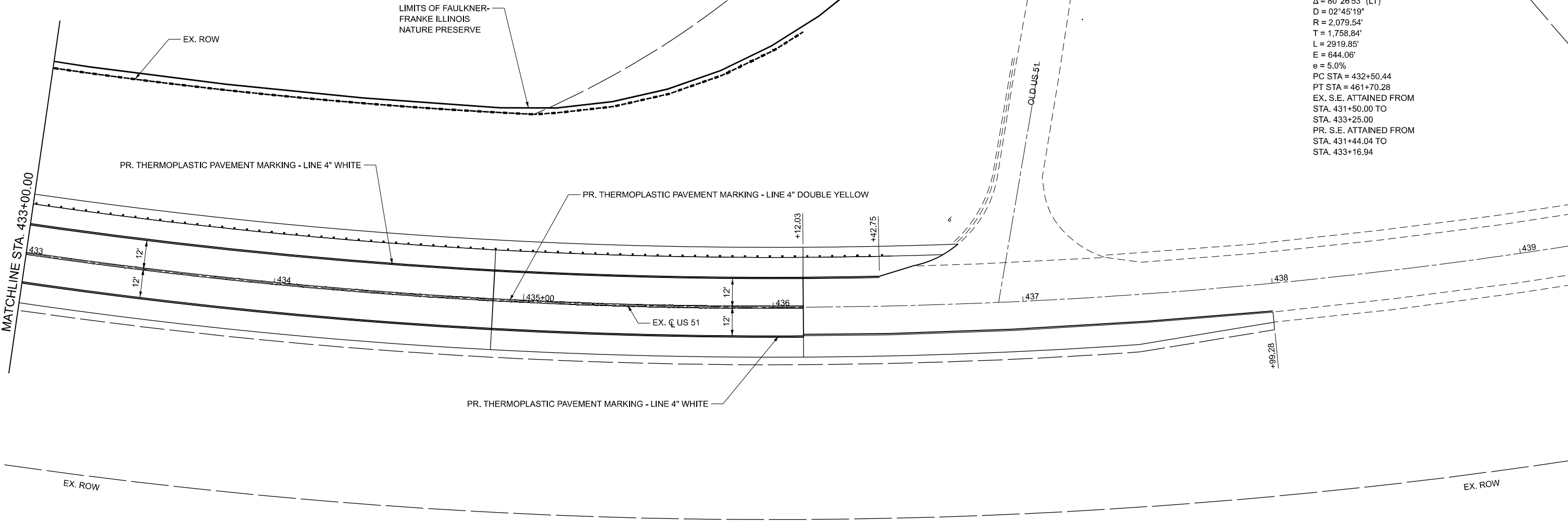
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	66
CONTRACT NO. 78937				
ILLINOIS		FED. AID PROJECT		



10-05-400-015



EX CURVE
PI STA = 450+09.28
 Δ = 80°26'53" (LT)
D = 02°45'19"
R = 2,079.54'
T = 1,758.84'
L = 2919.85'
E = 644.06'
e = 5.0%
PC STA = 432+50.44
PT STA = 461+70.28
EX. S.E. ATTAINED FROM
STA. 431+50.00 TO
STA. 433+25.00
PR. S.E. ATTAINED FROM
STA. 431+44.04 TO
STA. 433+16.94



MODEL: Pavement Marking Sheet 3
FILE NAME: P:\2025\202512\1A-US 51 over ICBR Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tran\CAD Sheets\0978937-5-hd-PMK.dgn



TWM, INC.
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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = bbillhartz
PLOT SCALE = 40,000,000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNAGE PLAN
US 51

SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. 433+00.00 TO STA. 438+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	68
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

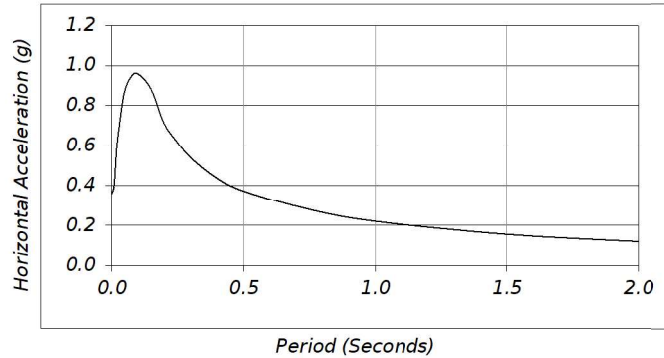
Bench Mark: Chiseled "square" on N.W. wingwall of S.N. 039-0052, Elev. 441.75

Existing Structure: SN 039-0052 was built in 1983 as F.A. Rte 718, Sect. 3VB-2. It is a three-span PPC deck-beam bridge supported by reinforced concrete stub abutments and hammerhead piers supported on steel H-Piles. The back-to-back abutment length is 151'-0" and the out-to-out deck width is 38'-0". The structure is skewed 29°37'40" left forward. Staged construction will be utilized to maintain traffic.

Salvage: None

SEISMIC DATA

2023 AASHTO Seismic Hazard
Site Class C
Latitude 37.85° N, Longitude 89.23° W
Operational Category: Recovery
Performance Level: Operational
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.221g
Seismic Design Category (SDC) = B



LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition
2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design, 3rd Edition

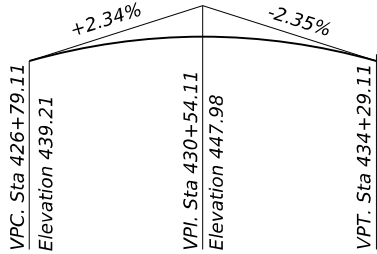
DESIGN STRESSES

FIELD UNITS

f'_c = 4,000 psi (Superstructure)
 f'_c = 3,500 psi (Substructure)
 f_y = 60,000 psi (Reinforcement)
 f_y = 50,000 psi (M270 Grade 50)

CURVE DATA

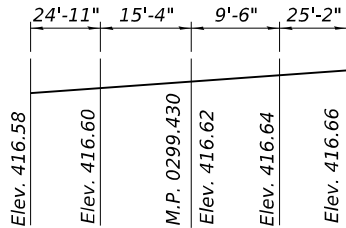
P.I. Sta. = 450+09.28
 Δ = 80°26'53" (LT)
 D = 02°45'19"
 R = 2,079.54'
 T = 1,758.84'
 L = 2919.85'
 E = 644.06'
 e = 5.0%
 $T.R.$ = 39.9'
 $S.E.$ Run = 133'
P.C. Sta. = 432+50.44
P.T. Sta. = 461+70.28
 $S.E.$ Attained from Sta. 431+44.04 to Sta. 433+16.94



LVC = 750'

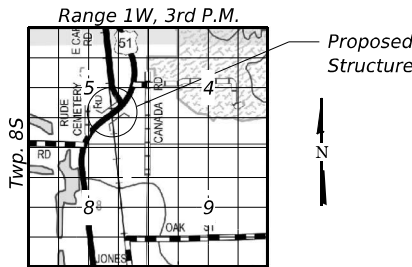
PROFILE GRADE

(Along $\bar{C}$ F.A.P. Rte. 322)



PROFILE GRADE

(Looking West)
Top of Rail C.N.I.C. Railroad



LOCATION SKETCH

GENERAL PLAN & ELEVATION

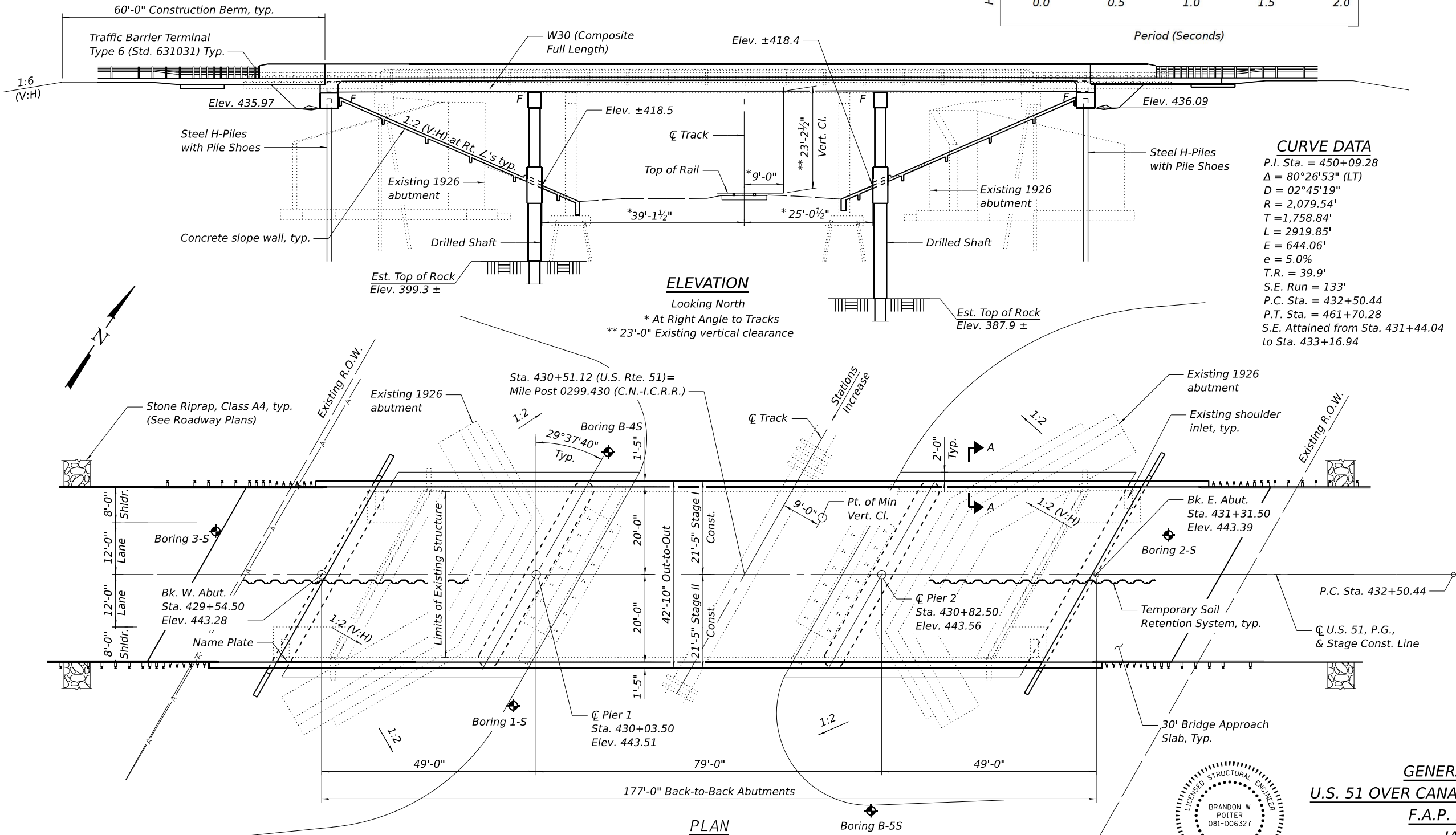
U.S. 51 OVER CANADIAN NATIONAL-ILL. CENTRAL R.R.

F.A.P. RTE 322 - SEC. 3VB-3

JACKSON COUNTY

STA. 430+51.12

STRUCTURE NO. 039-0084



Note:
All structural steel shall be galvanized

APPROVED
For Structural Adequacy Only
Brandon W. Poiter
Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER
BRANDON W. POITER
081-006327
STATE OF ILLINOIS
Brandon W. Poiter
Date: 08/27/2025
Expires: 11/30/2026

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 039-0084

SHEET 1 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	69
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

USER NAME =	bpolter	DESIGNED -	TCS	REVISED -	
		CHECKED -	BWP	REVISED -	
PLOT SCALE =	0:2,000 " = 1' in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

1. Fasteners shall be ASTM F 3125 Grade A325 Type 1. Fasteners shall be hot dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel". Bolts $\frac{7}{8}$ " diameter, holes $1\frac{5}{16}$ " diameter, unless otherwise noted.
2. Calculated weight of Structural Steel = 167,930 lbs (M270 Grade 50)
17,110 lbs (M270 Grade 36)
3. All new structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Slipforming of the parapets is not allowed.
7. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
8. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The Contractor shall be responsible for developing and submitting demo/removal and construction/erection plans to the CN Railroad while ensuring the following conditions are met:

1. Vertical: 22'-0" (7.00 m) above top of highest rail within 12'-0" (3.81 m) of the centerline of any track.
2. Horizontal: 12'-0" (3.81 m) from centerline of the nearest track, measured at right angles thereto.
3. If lesser clearances than the above are required for any part of the work, Licensee and/or their contractor shall secure written authorization from Railroad Company's Engineering Manager for such lesser clearances in advance of the start of that portion of the work.

Diane Lewis - Public Works Manager | Public Works South | Email: Diane.Lewis@cn.ca



Notes:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

Granular Backfill behind the abutments shall be CA7 or CA11 and shall be compacted according to Article 205.06 of the Standard Specifications.

1	General Plan and Elevation
2	General Data
3	Temporary Soil Retention System
4	Stage Construction Details
5	Temporary Concrete Barrier
6-8	Top of Slab Elevations
9	Top of West Approach Slab Elevations
10	Top of East Approach Slab Elevations
11	Superstructure
12	Superstructure Details
13	Diaphragm Details
14-15	Bridge Approach Slab Details
16	Structural Steel Framing
17-18	Structural Steel Details
19	Bearing Details
20	West Abutment
21	East Abutment
22	Pier 1
23	Pier 2
24	Pier Details
25	HP Pile Details
26	Bar Splicer Assembly and Mechanical Splicer Details
27-31	Soil Boring Logs



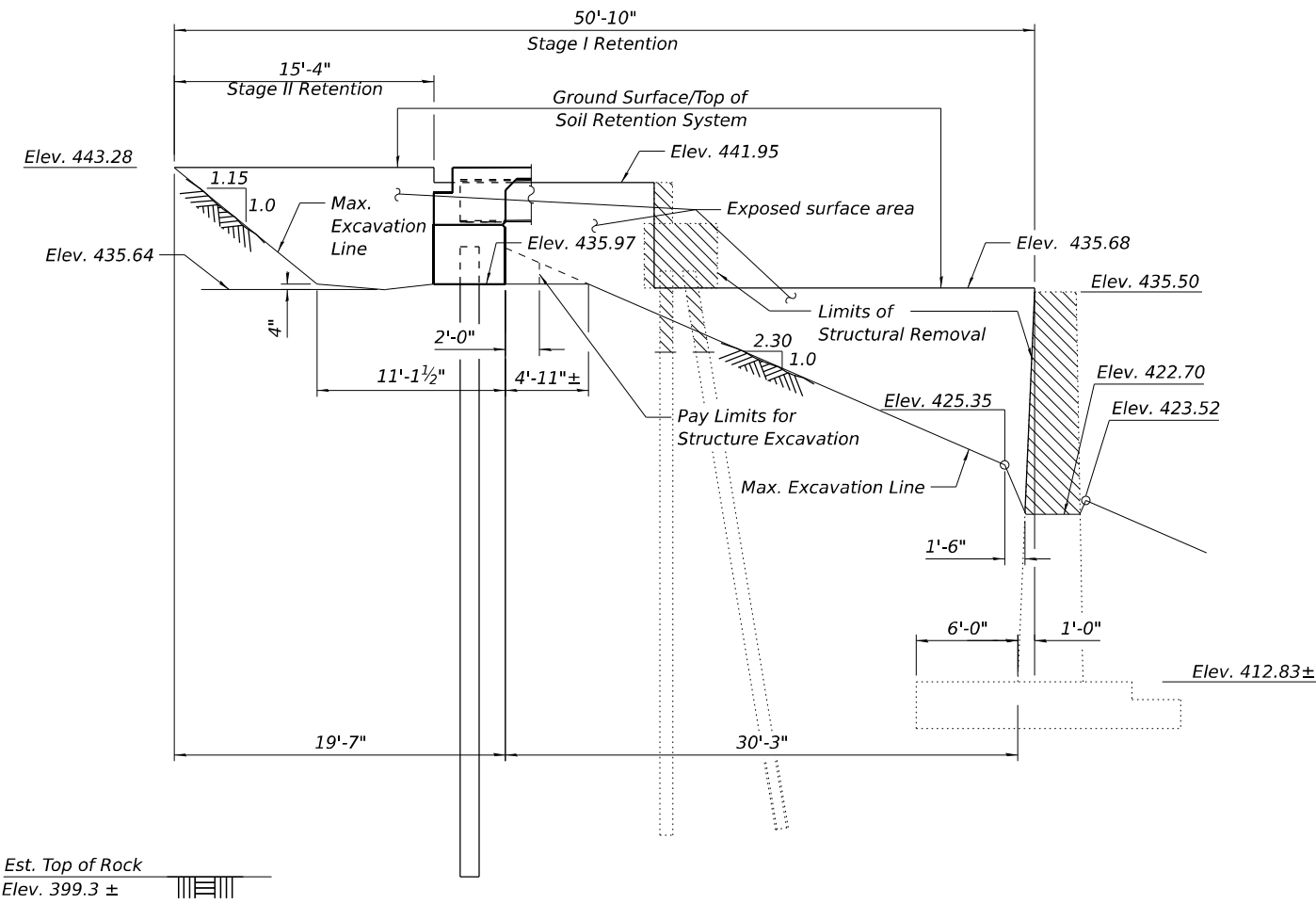
STA. 430+51.12
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 322 SEC. 3VB-3
LOADING HL-93
STR. NO. 039-0084

See Std. 515001

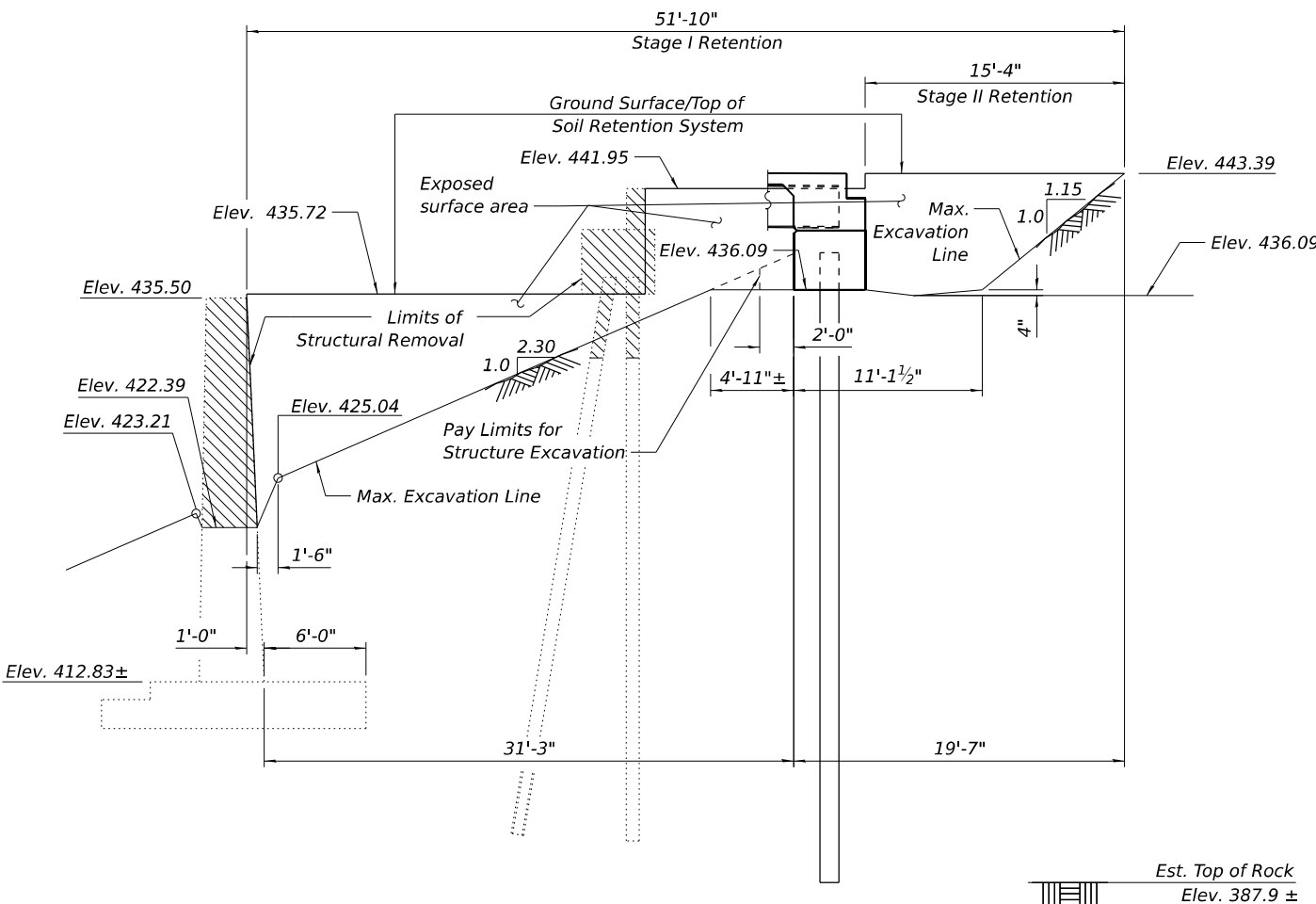


Note:

Slope wall shall be reinforced with welded wire fabric,
6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



WEST ABUTMENT TEMPORARY SOIL RETENTION SYSTEM



EAST ABUTMENT TEMPORARY SOIL RETENTION SYSTEM

Note:
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.

MODEL: Default
FILE NAME: P:\2024\240166B - US 51 over ICRP Bridge Replacement\4 CADD - DWG\4.4 Struc\0390084-78937-003-Temporary Soil Retention System.dgn
8/21/2025 11:09:37 AM



TWM, INC.
WWW.TWM-INC.COM
ILLINOIS DESIGN FIRM
LICENSE NO: 184-001220

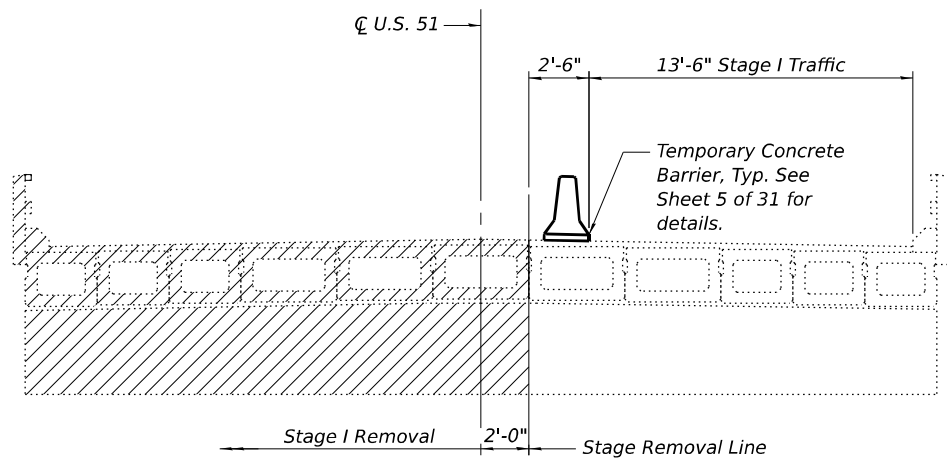
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PLOT SCALE =	0:2,000' = 1" / in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

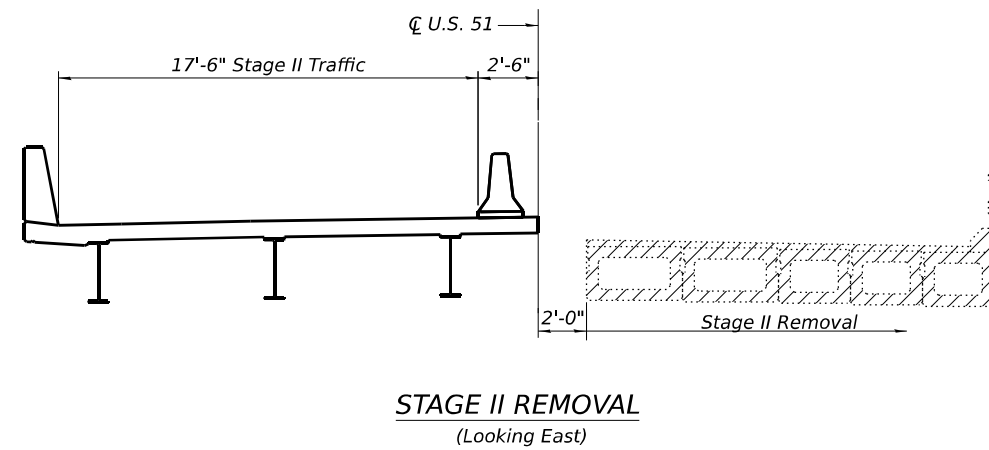
TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 039-0084

SHEET 3 OF 31 SHEETS

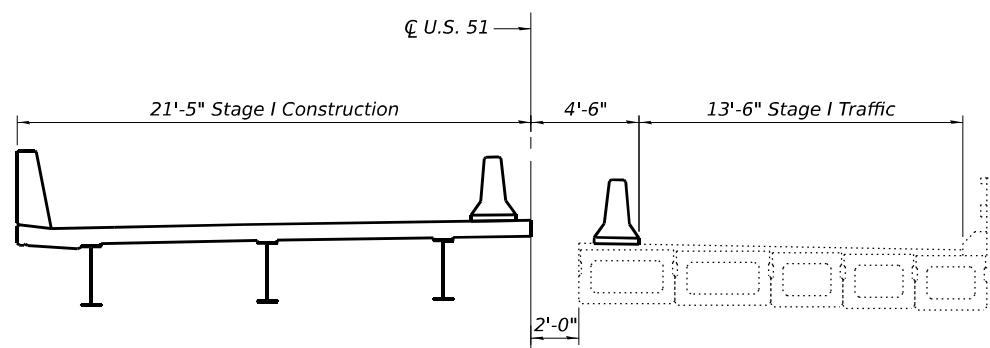
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	71
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



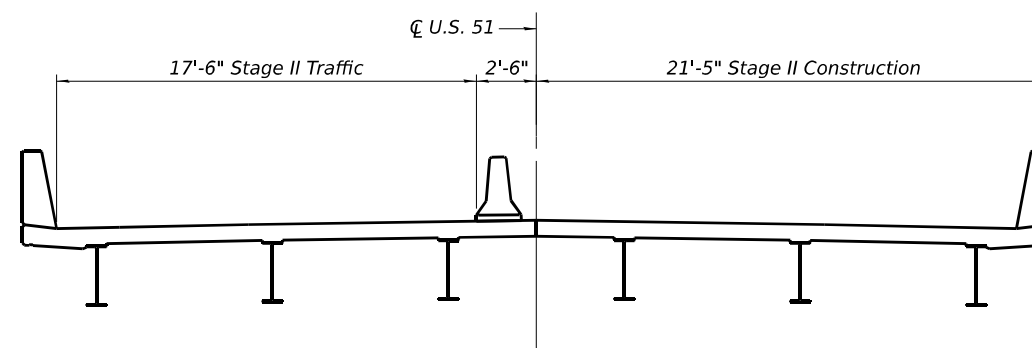
STAGE I REMOVAL
(Looking East)



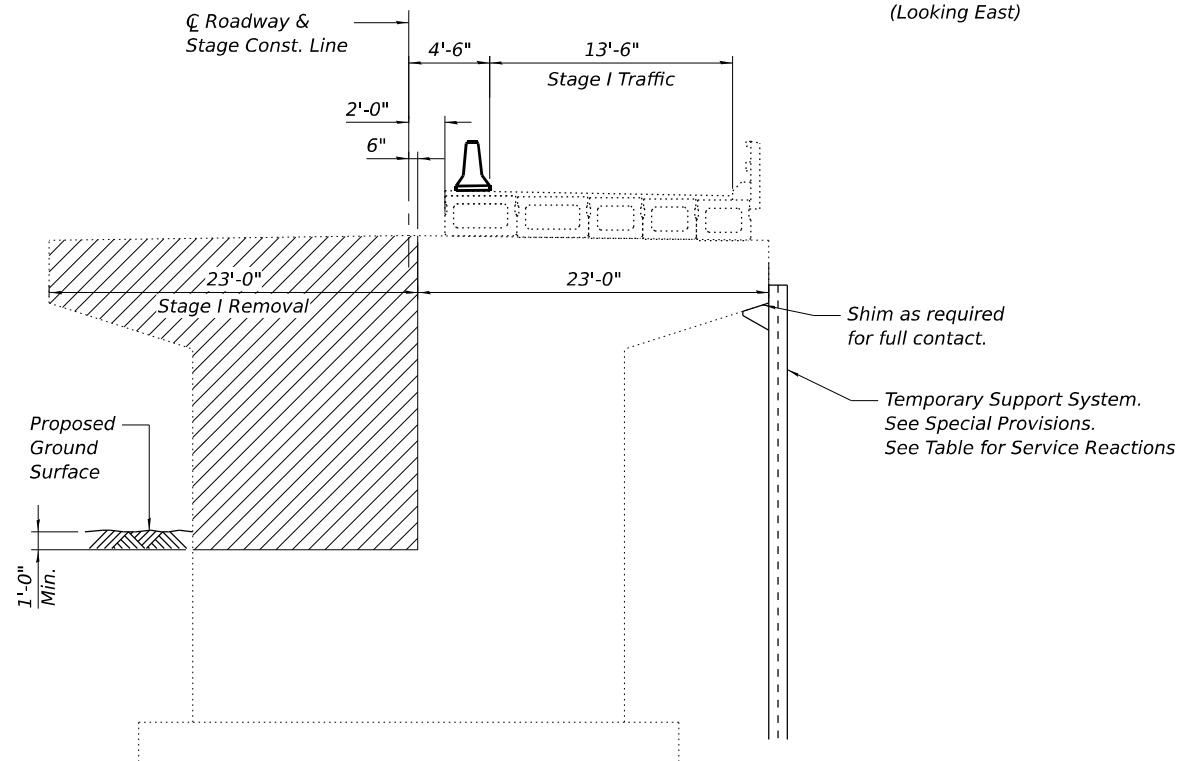
STAGE II REMOVAL
(Looking East)



STAGE I CONSTRUCTION
(Looking East)



STAGE II CONSTRUCTION
(Looking East)



TEMPORARY SUPPORT SYSTEM AT PIERS
(Looking East)

Note:
Hatched area indicates Removal of Existing Structures.
For quantities of Temporary Concrete Barrier, see Roadway Plans.
The Temporary Support System shown is a general representation of a possible support system. The contractor shall employ an Illinois Licensed Structural Engineer to design the final system and submit for review and approval by the Engineer.
No Stage I removal shall be allowed until the temporary support systems are in place.
The stage removal line at the piers differs from that of the abutments and superstructure.

Temporary Support Service Reaction	
Dead Load	Live Load
50 kips	32 kips

MODEL: Default
FILE NAME: P:\2024\240166B - US 51 over ICR Bridge Replacement\4 CADD - DWG\4.4 Struc\0390084-78937-004-Stage Construction Details.dgn
8/21/2025 11:09:37 AM



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		CHECKED -	BWP	REVISED -	
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PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

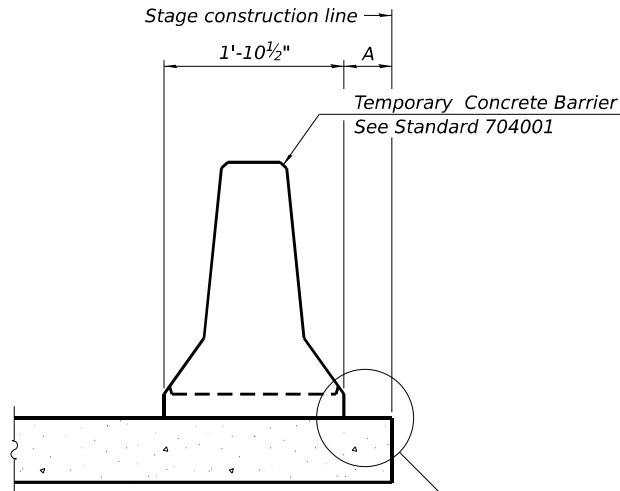
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 039-0084

SHEET 4 OF 31 SHEETS

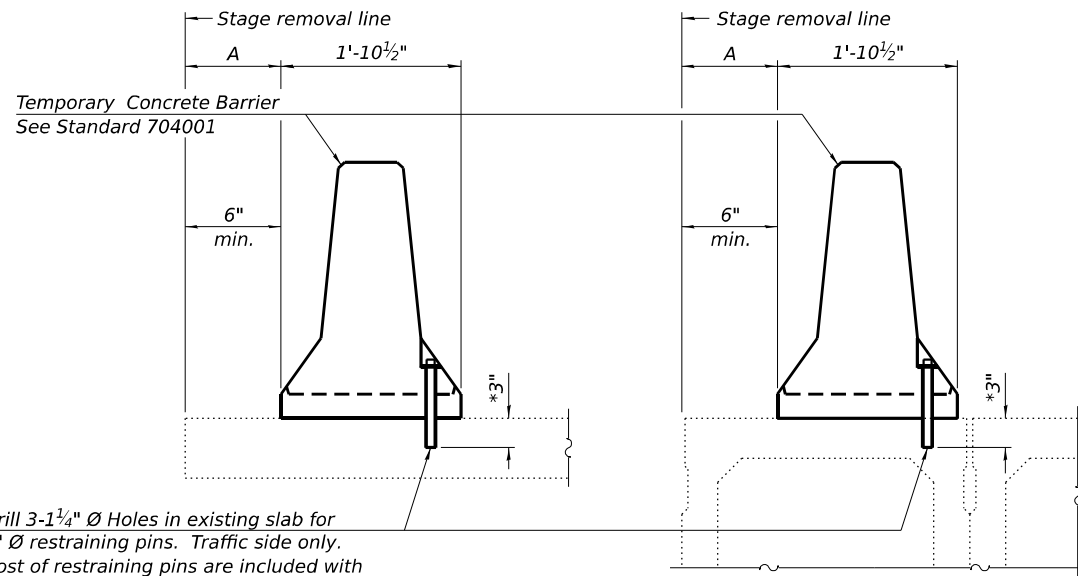
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	72
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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8/21/2025 11:09:38 AM



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

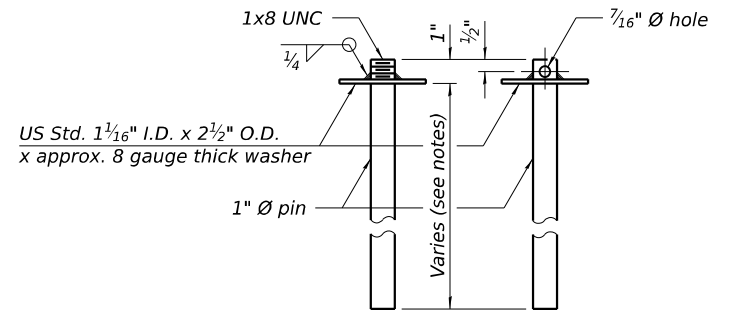


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

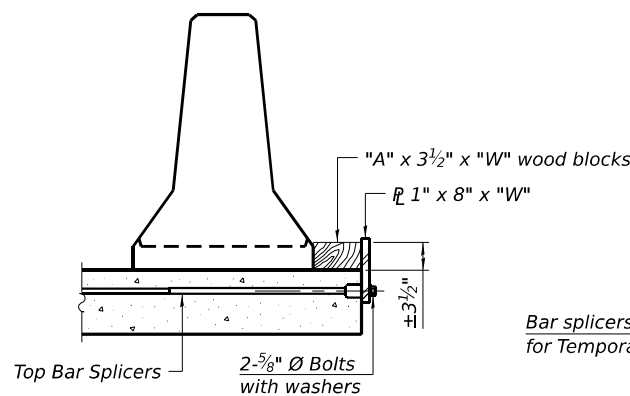
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

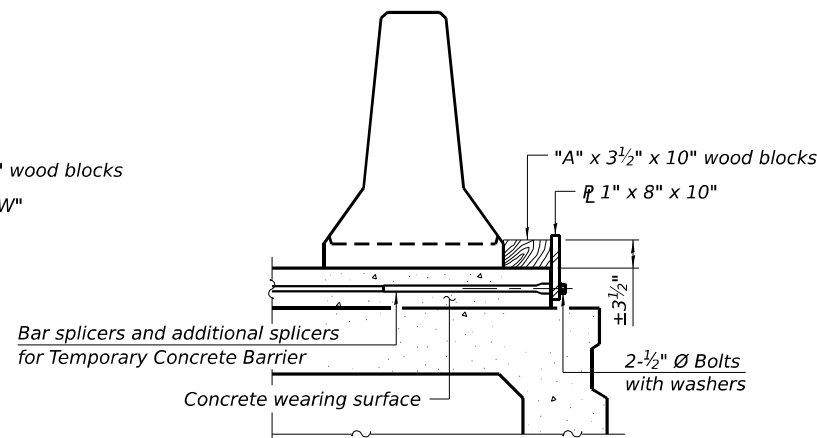


RESTRAINING PIN

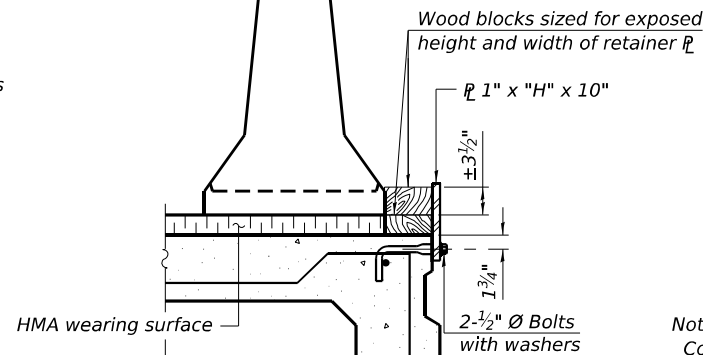
SECTIONS THRU SLAB OR DECK BEAM



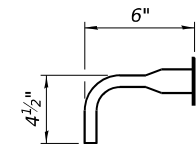
DETAIL I



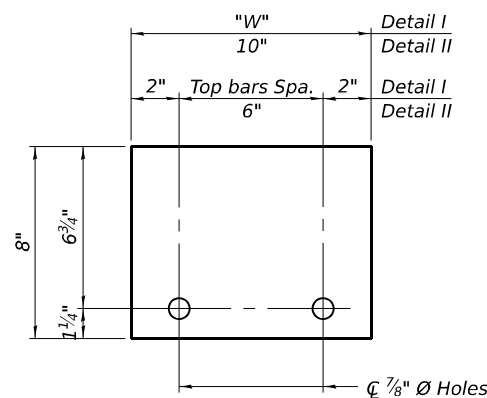
DETAIL II



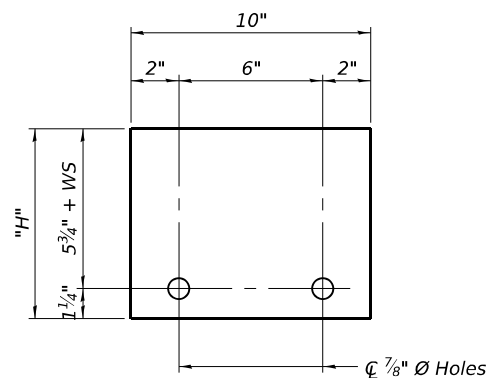
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



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LICENSE NO: 184-001220

USER NAME =	bpolter	DESIGNED -	TCS	REVISED -	
		CHECKED -	BWP	REVISED -	
PLOT SCALE =	0:2,000' = 1" / in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

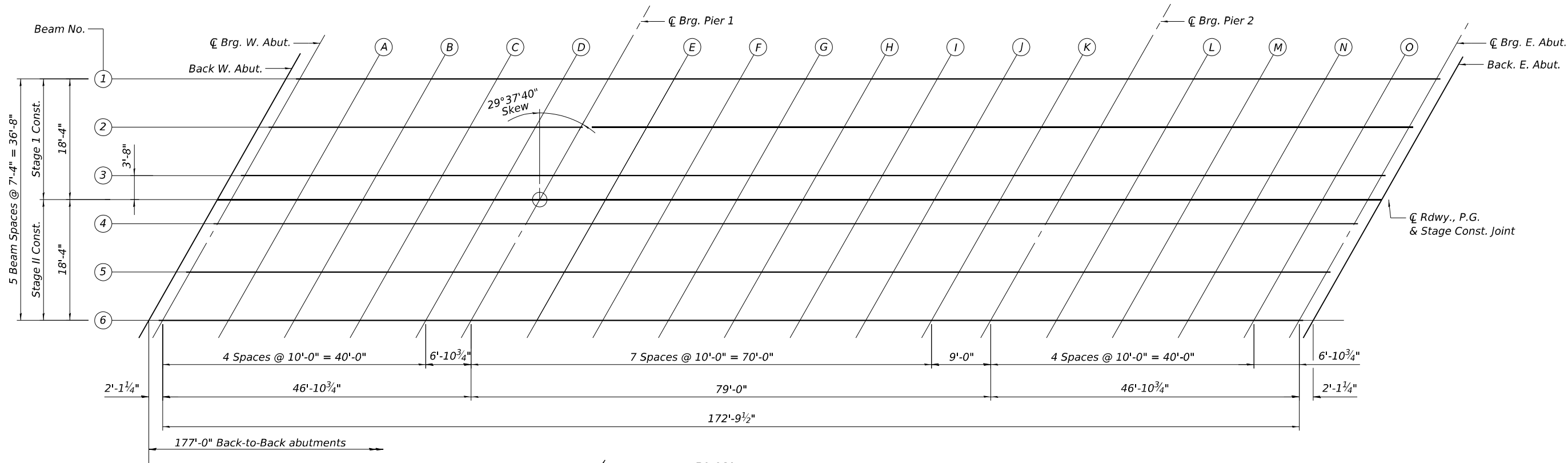
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 039-0084

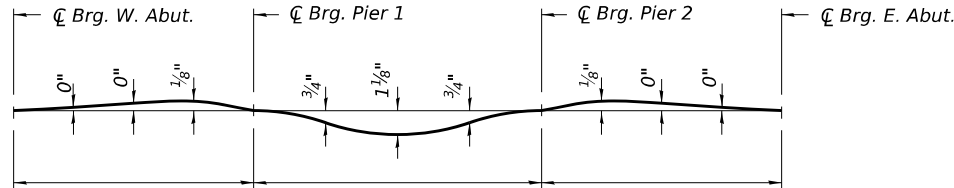
SHEET 5 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	73
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2024\240166B - US 51 over ICR Bridge Replacement\4 CADD - DWG\4.4 Struc\0390084-78937-006-Top of Slab Elevations.dgn
8/21/2025 11:09:38 AM



PLAN

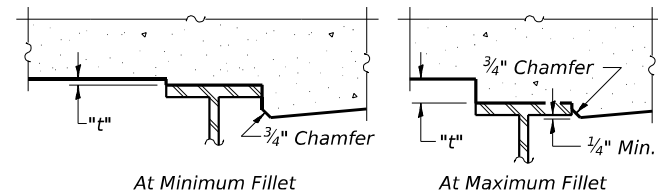


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 7 & 8 of 31.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 7 & 8 of 31, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



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USER NAME =	bpoller	DESIGNED -	TCS	REVISED -	
		CHECKED -	BWP	REVISED -	
PLOT SCALE =	0:2,000' = 1" / in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 039-0084

SHEET 6 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	74
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2024\240166B - US 51 over ICRR Bridge Replacement\4 CADD - DWG\4.4 Struc\039\0084-78937-007-Top of Slab Elevations.dgn

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	429+64.93	-18.33	443.03	443.03
℄ Brg. W. Abut.	429+67.04	-18.33	443.04	443.04
A	429+77.04	-18.33	443.09	443.10
B	429+87.04	-18.33	443.14	443.14
C	429+97.04	-18.33	443.18	443.17
D	430+07.04	-18.33	443.21	443.20
℄ Brg. Pier 1	430+13.93	-18.33	443.23	443.23
E	430+23.93	-18.33	443.25	443.28
F	430+33.93	-18.33	443.26	443.33
G	430+43.93	-18.33	443.27	443.36
H	430+53.93	-18.33	443.28	443.37
I	430+63.93	-18.33	443.27	443.36
J	430+73.93	-18.33	443.26	443.32
K	430+83.93	-18.33	443.25	443.27
℄ Brg. Pier 2	430+92.93	-18.33	443.23	443.23
L	431+02.93	-18.33	443.20	443.19
M	431+12.93	-18.33	443.17	443.16
N	431+22.93	-18.33	443.12	443.13
O	431+32.93	-18.33	443.08	443.08
℄ Brg. E. Abut.	431+39.82	-18.33	443.04	443.04
Bk. E. Abut.	431+41.93	-18.33	443.03	443.03

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	429+60.76	-11.00	443.15	443.15
℄ Brg. W. Abut.	429+62.87	-11.00	443.16	443.16
A	429+72.87	-11.00	443.22	443.22
B	429+82.87	-11.00	443.26	443.27
C	429+92.87	-11.00	443.30	443.30
D	430+02.87	-11.00	443.34	443.33
℄ Brg. Pier 1	430+09.76	-11.00	443.36	443.36
E	430+19.76	-11.00	443.38	443.41
F	430+29.76	-11.00	443.40	443.46
G	430+39.76	-11.00	443.41	443.50
H	430+49.76	-11.00	443.42	443.51
I	430+59.76	-11.00	443.42	443.50
J	430+69.76	-11.00	443.41	443.47
K	430+79.76	-11.00	443.40	443.42
℄ Brg. Pier 2	430+88.76	-11.00	443.38	443.38
L	430+98.76	-11.00	443.35	443.35
M	431+08.76	-11.00	443.32	443.32
N	431+18.76	-11.00	443.28	443.29
O	431+28.76	-11.00	443.24	443.24
℄ Brg. E. Abut.	431+35.65	-11.00	443.21	443.21
Bk. E. Abut.	431+37.76	-11.00	443.20	443.20

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	429+56.59	-3.67	443.24	443.24
℄ Brg. W. Abut.	429+58.69	-3.67	443.25	443.25
A	429+68.69	-3.67	443.30	443.31
B	429+78.69	-3.67	443.35	443.36
C	429+88.69	-3.67	443.40	443.39
D	429+98.69	-3.67	443.43	443.43
℄ Brg. Pier 1	430+05.59	-3.67	443.46	443.46
E	430+15.59	-3.67	443.48	443.51
F	430+25.59	-3.67	443.50	443.56
G	430+35.59	-3.67	443.52	443.61
H	430+45.59	-3.67	443.53	443.62
I	430+55.59	-3.67	443.53	443.61
J	430+65.59	-3.67	443.52	443.58
K	430+75.59	-3.67	443.51	443.54
℄ Brg. Pier 2	430+84.59	-3.67	443.50	443.50
L	430+94.59	-3.67	443.47	443.47
M	431+04.59	-3.67	443.45	443.44
N	431+14.59	-3.67	443.41	443.41
O	431+24.59	-3.67	443.37	443.37
℄ Brg. E. Abut.	431+31.48	-3.67	443.34	443.34
Bk. E. Abut.	431+33.59	-3.67	443.33	443.33

℄ ROADWAY, PROFILE GRADE & STAGE CONST. JT.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	429+54.50	0.00	443.28	443.28
℄ Brg. W. Abut.	429+56.61	0.00	443.29	443.29
A	429+66.61	0.00	443.35	443.35
B	429+76.61	0.00	443.40	443.40
C	429+86.61	0.00	443.44	443.44
D	429+96.61	0.00	443.48	443.48
℄ Brg. Pier 1	430+03.50	0.00	443.51	443.51
E	430+13.50	0.00	443.53	443.56
F	430+23.50	0.00	443.56	443.62
G	430+33.50	0.00	443.57	443.66
H	430+43.50	0.00	443.58	443.68
I	430+53.50	0.00	443.58	443.67
J	430+63.50	0.00	443.58	443.64
K	430+73.50	0.00	443.57	443.59
℄ Brg. Pier 2	430+82.50	0.00	443.56	443.56
L	430+92.50	0.00	443.54	443.53
M	431+02.50	0.00	443.51	443.51
N	431+12.50	0.00	443.47	443.48
O	431+22.50	0.00	443.43	443.44
℄ Brg. E. Abut.	431+29.39	0.00	443.40	443.40
Bk. E. Abut.	431+31.50	0.00	443.39	443.39



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PLOT SCALE =	0:2,000'"/ in.	DRAWN -	TCS	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 039-0084

SHEET 7 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	75
		CONTRACT NO. 78937		
		ILLINOIS	FED. AID PROJECT	

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GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	429+52.41	3.67	443.21	443.21
⌂ Brg. W. Abut.	429+54.52	3.67	443.22	443.22
A	429+64.52	3.67	443.28	443.29
B	429+74.52	3.67	443.33	443.34
C	429+84.52	3.67	443.38	443.38
D	429+94.52	3.67	443.42	443.41
⌂ Brg. Pier 1	430+01.41	3.67	443.44	443.44
E	430+11.41	3.67	443.47	443.50
F	430+21.41	3.67	443.50	443.56
G	430+31.41	3.67	443.51	443.60
H	430+41.41	3.67	443.52	443.62
I	430+51.41	3.67	443.53	443.61
J	430+61.41	3.67	443.53	443.58
K	430+71.41	3.67	443.52	443.54
⌂ Brg. Pier 2	430+80.41	3.67	443.51	443.51
L	430+90.41	3.67	443.49	443.48
M	431+00.41	3.67	443.46	443.46
N	431+10.41	3.67	443.43	443.43
O	431+20.41	3.67	443.39	443.39
⌂ Brg. E. Abut.	431+27.31	3.67	443.36	443.36
Bk. E. Abut.	431+29.41	3.67	443.35	443.35

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	429+48.24	11.00	443.07	443.07
⌂ Brg. W. Abut.	429+50.35	11.00	443.09	443.09
A	429+60.35	11.00	443.15	443.15
B	429+70.35	11.00	443.20	443.21
C	429+80.35	11.00	443.25	443.25
D	429+90.35	11.00	443.29	443.29
⌂ Brg. Pier 1	429+97.24	11.00	443.32	443.32
E	430+07.24	11.00	443.35	443.38
F	430+17.24	11.00	443.38	443.44
G	430+27.24	11.00	443.40	443.48
H	430+37.24	11.00	443.41	443.51
I	430+47.24	11.00	443.42	443.50
J	430+57.24	11.00	443.42	443.48
K	430+67.24	11.00	443.41	443.44
⌂ Brg. Pier 2	430+76.24	11.00	443.40	443.40
L	430+86.24	11.00	443.38	443.38
M	430+96.24	11.00	443.36	443.36
N	431+06.24	11.00	443.33	443.33
O	431+16.24	11.00	443.29	443.30
⌂ Brg. E. Abut.	431+23.13	11.00	443.27	443.27
Bk. E. Abut.	431+25.24	11.00	443.26	443.26

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	429+44.07	18.33	442.90	442.90
⌂ Brg. W. Abut.	429+46.18	18.33	442.92	442.92
A	429+56.18	18.33	442.98	442.99
B	429+66.18	18.33	443.04	443.04
C	429+76.18	18.33	443.09	443.09
D	429+86.18	18.33	443.14	443.13
⌂ Brg. Pier 1	429+93.07	18.33	443.16	443.16
E	430+03.07	18.33	443.20	443.23
F	430+13.07	18.33	443.23	443.29
G	430+23.07	18.33	443.25	443.33
H	430+33.07	18.33	443.26	443.36
I	430+43.07	18.33	443.27	443.36
J	430+53.07	18.33	443.28	443.33
K	430+63.07	18.33	443.27	443.30
⌂ Brg. Pier 2	430+72.07	18.33	443.27	443.27
L	430+82.07	18.33	443.25	443.24
M	430+92.07	18.33	443.23	443.23
N	431+02.07	18.33	443.20	443.21
O	431+12.07	18.33	443.17	443.17
⌂ Brg. E. Abut.	431+18.96	18.33	443.14	443.14
Bk. E. Abut.	431+21.07	18.33	443.13	443.13



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USER NAME =	bpoller	DESIGNED -	TCS	REVISED -	
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PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 039-0084

SHEET 8 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	76
		CONTRACT NO. 78937		
		ILLINOIS	FED. AID PROJECT	

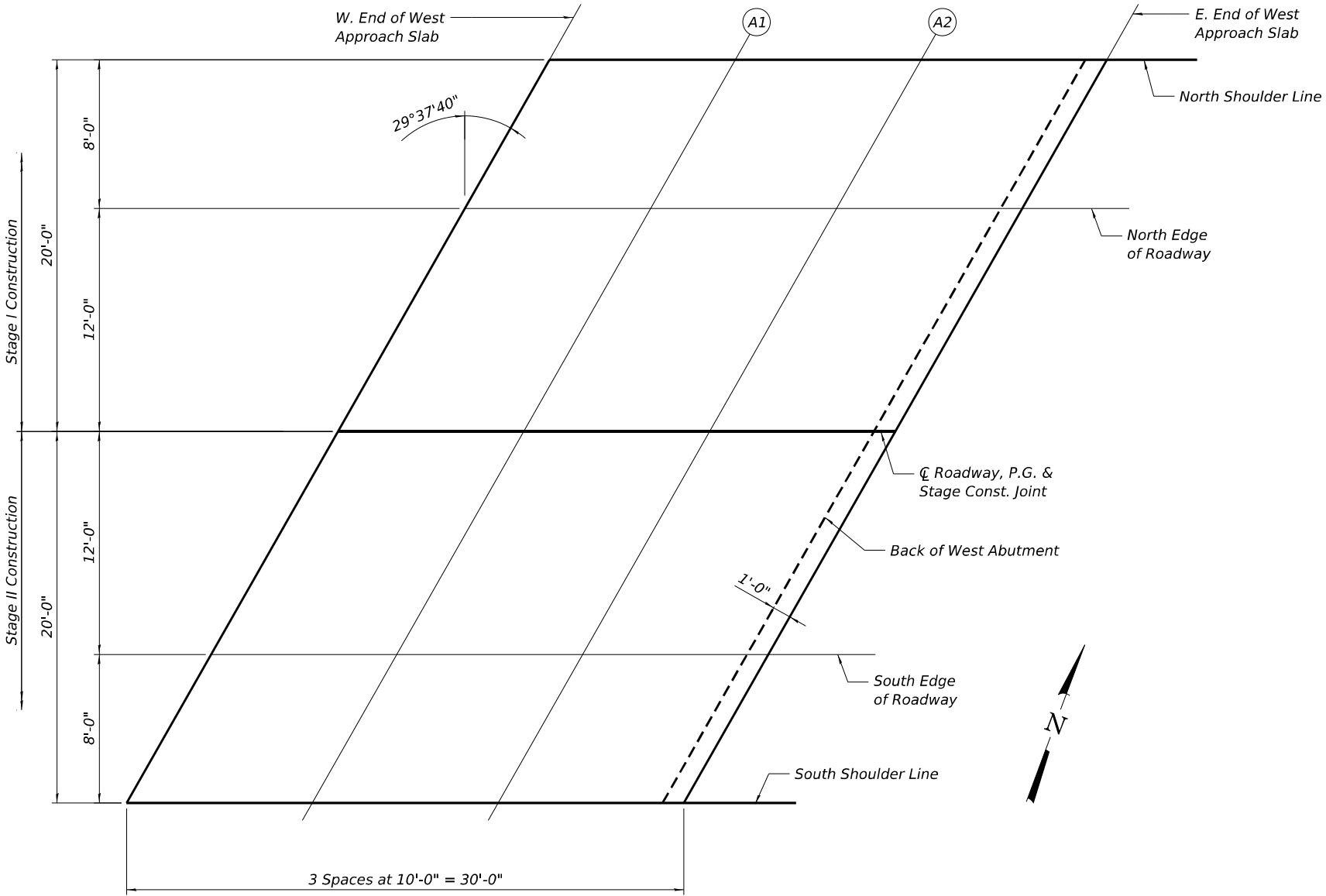
NORTH SHOULDER LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	429+37.02	-20.00	442.82
A1	429+47.02	-20.00	442.89
A2	429+57.02	-20.00	442.95
E. End West Appr.	429+67.02	-20.00	443.01

NORTH EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	429+32.48	-12.00	442.95
A1	429+42.48	-12.00	443.02
A2	429+52.48	-12.00	443.09
E. End West Appr.	429+62.48	-12.00	443.15

CL ROADWAY, PROFILE GRADE & STAGE CONST. JT.			
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	429+25.65	0.00	443.07
A1	429+35.65	0.00	443.15
A2	429+45.65	0.00	443.22
E. End West Appr.	429+55.65	0.00	443.28

SOUTH EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	429+18.83	12.00	442.84
A1	429+28.83	12.00	442.92
A2	429+38.83	12.00	442.99
E. End West Appr.	429+48.83	12.00	443.06

SOUTH SHOULDER LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	429+14.28	20.00	442.64
A1	429+24.28	20.00	442.72
A2	429+34.28	20.00	442.80
E. End West Appr.	429+44.28	20.00	442.87



PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 039-0084

SHEET 9 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	77
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

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8/21/2025 11:09:40 AM

TWM, INC.
ENGINEERING
GEOSPATIAL SERVICES

IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = bpoller
DESIGNED - TCS
CHECKED - BWP
PLOT SCALE = 0:2,000'"/in.
DRAWN - TCS
PLOT DATE = 8/21/2025
CHECKED - BWP

NORTH SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End East Aprr.	431+41.72	-20.00	443.00
A3	431+51.72	-20.00	442.94
A4	431+61.72	-20.00	442.88
E. End East Aprr.	431+71.72	-20.00	442.80

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End East Aprr.	431+37.17	-12.00	443.18
A3	431+47.17	-12.00	443.13
A4	431+57.17	-12.00	443.07
E. End East Aprr.	431+67.17	-12.00	443.00

CL ROADWAY, PROFILE GRADE & STAGE CONST. JT.

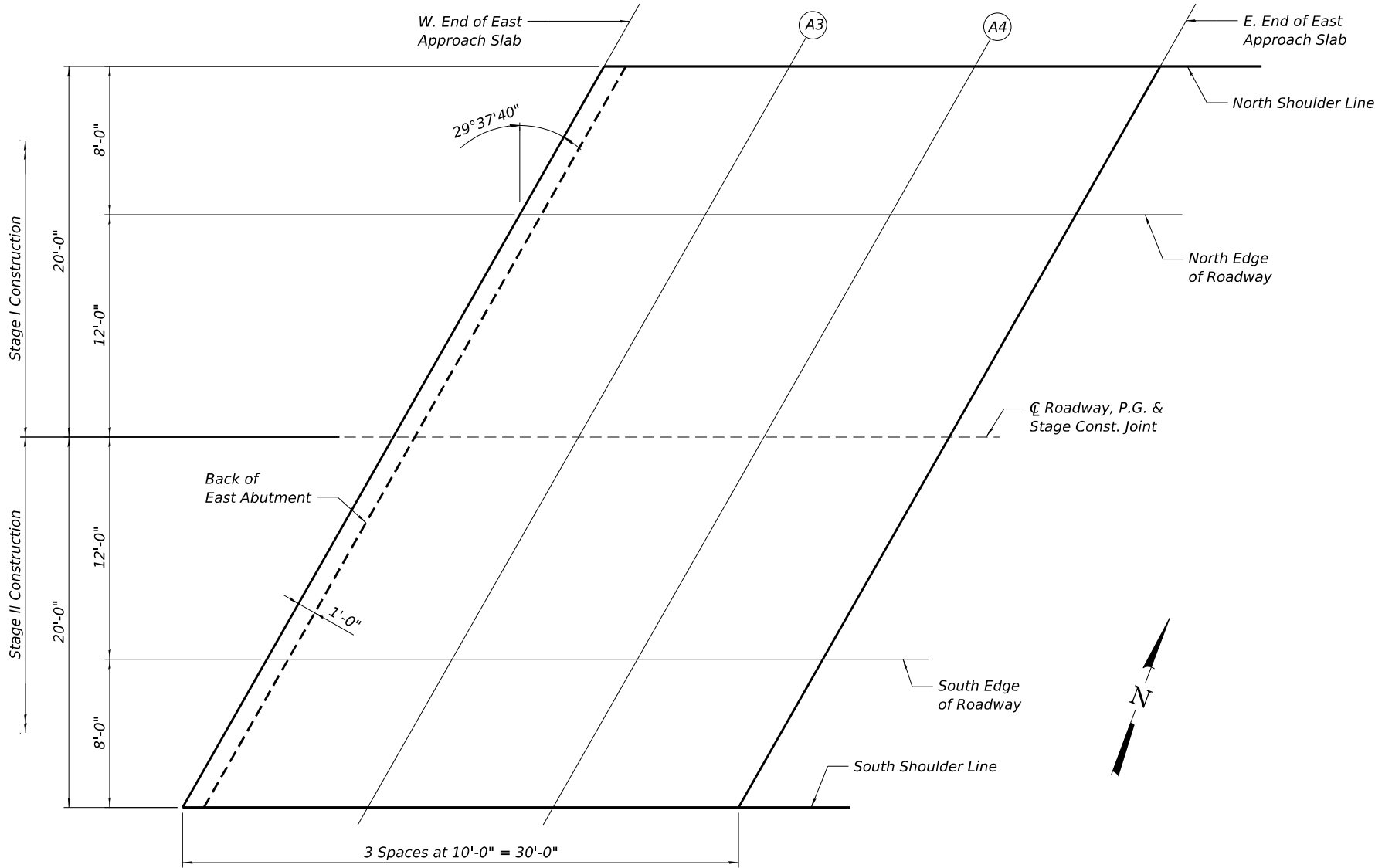
Location	Station	Offset	Theoretical Grade Elevations
W. End East Aprr.	431+30.35	0.00	443.40
A3	431+40.35	0.00	443.35
A4	431+50.35	0.00	443.29
E. End East Aprr.	431+60.35	0.00	443.22

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End East Aprr.	431+23.52	12.00	443.25
A3	431+33.52	12.00	443.20
A4	431+43.52	12.00	443.15
E. End East Aprr.	431+53.52	12.00	443.13

SOUTH SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End East Aprr.	431+18.98	20.00	443.11
A3	431+28.98	20.00	443.06
A4	431+38.98	20.00	443.01
E. End East Aprr.	431+48.98	20.00	443.00



PLAN

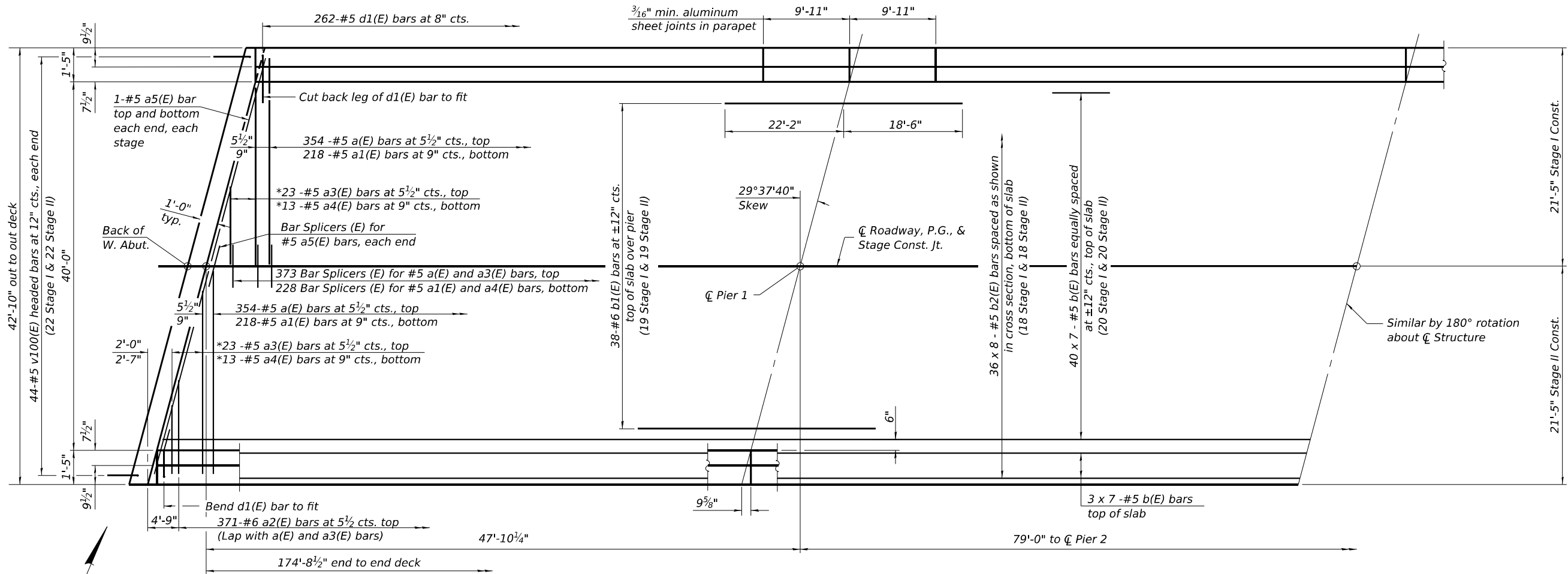
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 039-0084

SHEET 10 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	78
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

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PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

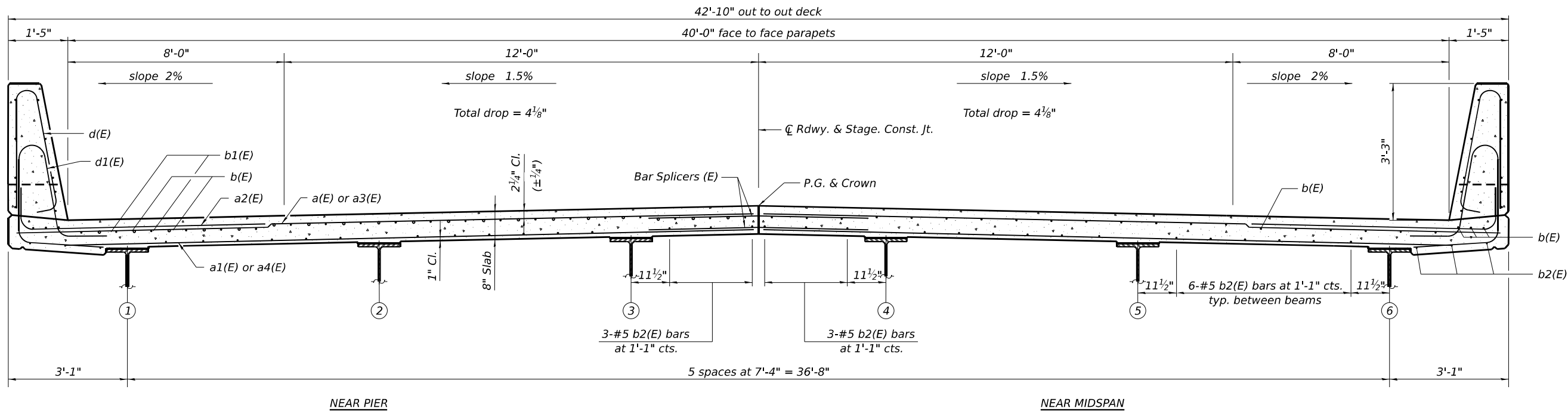


PARTIAL PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"

* See Field Cutting Diagram
on sheet 12 of 31.

Notes:
See sheet 12 of 31 for superstructure details
and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.



CROSS SECTION
(Looking East)

MODEL: Default
FILE NAME: P:\2024\240166B - US 51 over ICRB Bridge Replacement\4 CADD - DWG\4.4 Struc\0390084-78937-011-Superstructure.dgn
8/21/2025 11:09:42 AM



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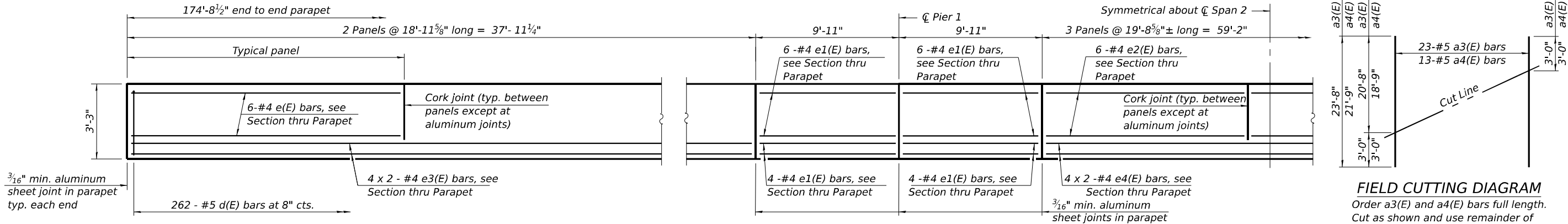
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

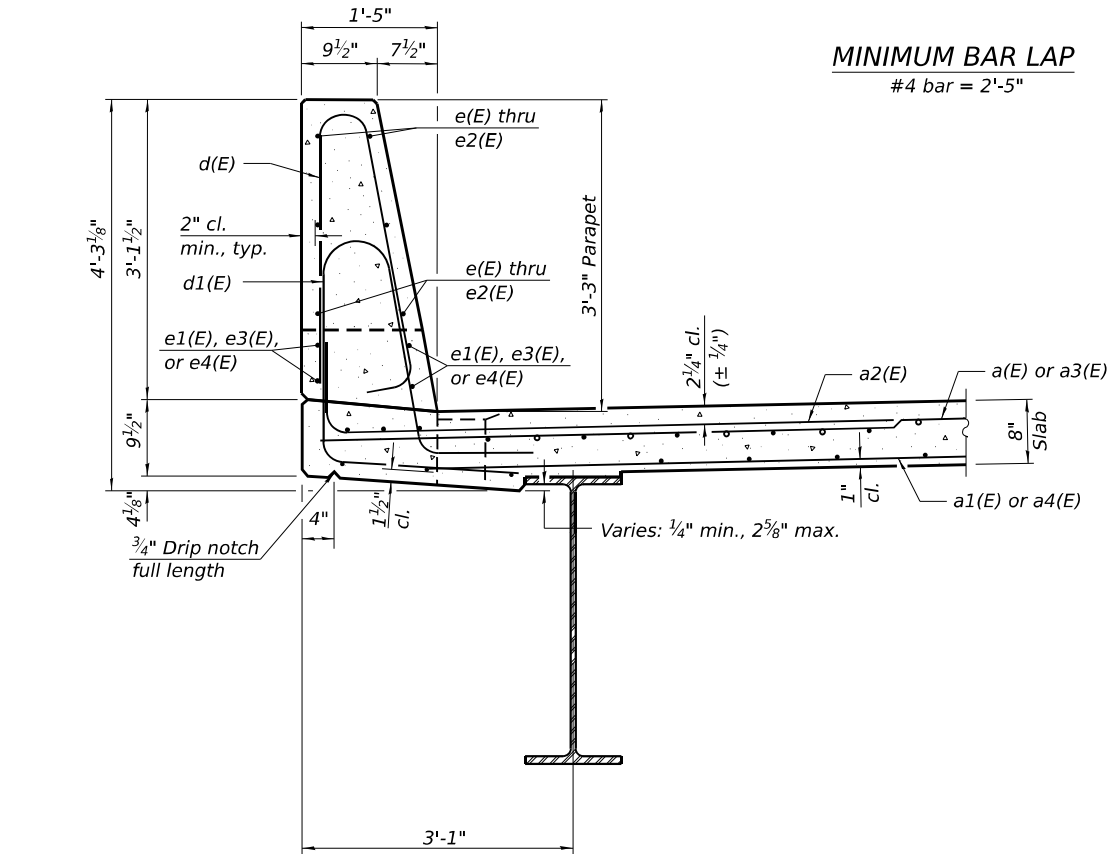
SUPERSTRUCTURE
STRUCTURE NO. 039-0084

SHEET 11 OF 31 SHEETS

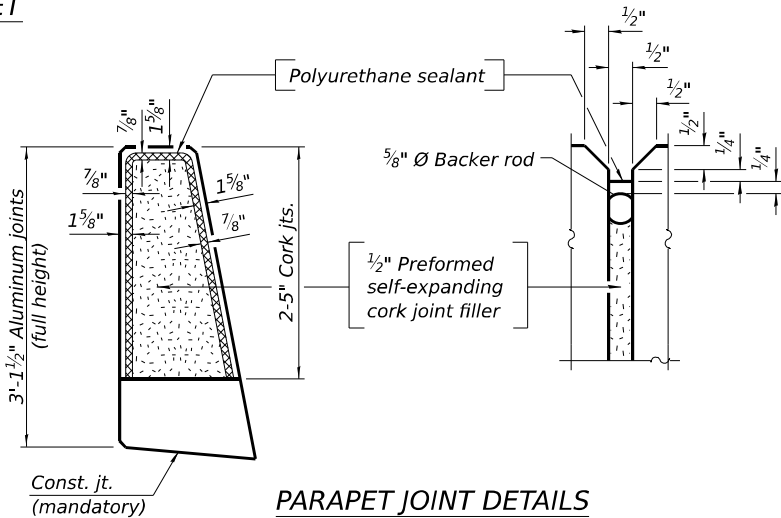
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	79
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET



PARAPET JOINT DETAILS

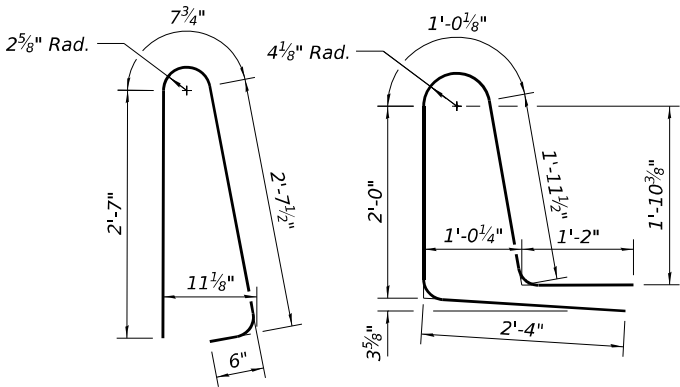
Notes:
The 3/16" min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Bar terminators, paid for separately. See Total Bill of Material.

BAR v100(E)
(Headed. 88 - #5 Bar terminators)

BAR a2(E)

BAR s10(E)
(Headed. 176 - #5 Bar terminators)

BAR s11(E)



BAR d(E)

BAR d1(E)

FIELD CUTTING DIAGRAM

Order a3(E) and a4(E) bars full length.
Cut as shown and use remainder of bars in opposite end of deck.

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	708	#5	21'-1"	
a1(E)	436	#5	20'-3"	
a2(E)	742	#6	8'-4"	
a3(E)	46	#5	23'-8"	
a4(E)	26	#5	21'-9"	
a5(E)	8	#5	24'-3"	
b(E)	322	#5	28'-0"	
b1(E)	76	#6	40'-8"	
b2(E)	288	#5	24'-11"	
d(E)	524	#5	6'-5"	
d1(E)	524	#5	8'-6"	
e(E)	48	#4	18'-7"	
e1(E)	80	#4	9'-7"	
e2(E)	36	#4	19'-4"	
e3(E)	32	#4	20'-0"	
e4(E)	16	#4	30'-8"	
m10(E)	16	#6	24'-3"	
m11(E)	24	#6	8'-1"	
m12(E)	12	#6	3'-2"	
s10(E)	88	#5	6'-9"	
s11(E)	88	#5	9'-8"	
v100(E)	88	#5	3'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	70,730	
Concrete Superstructure		Cu. Yds.	281.3	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

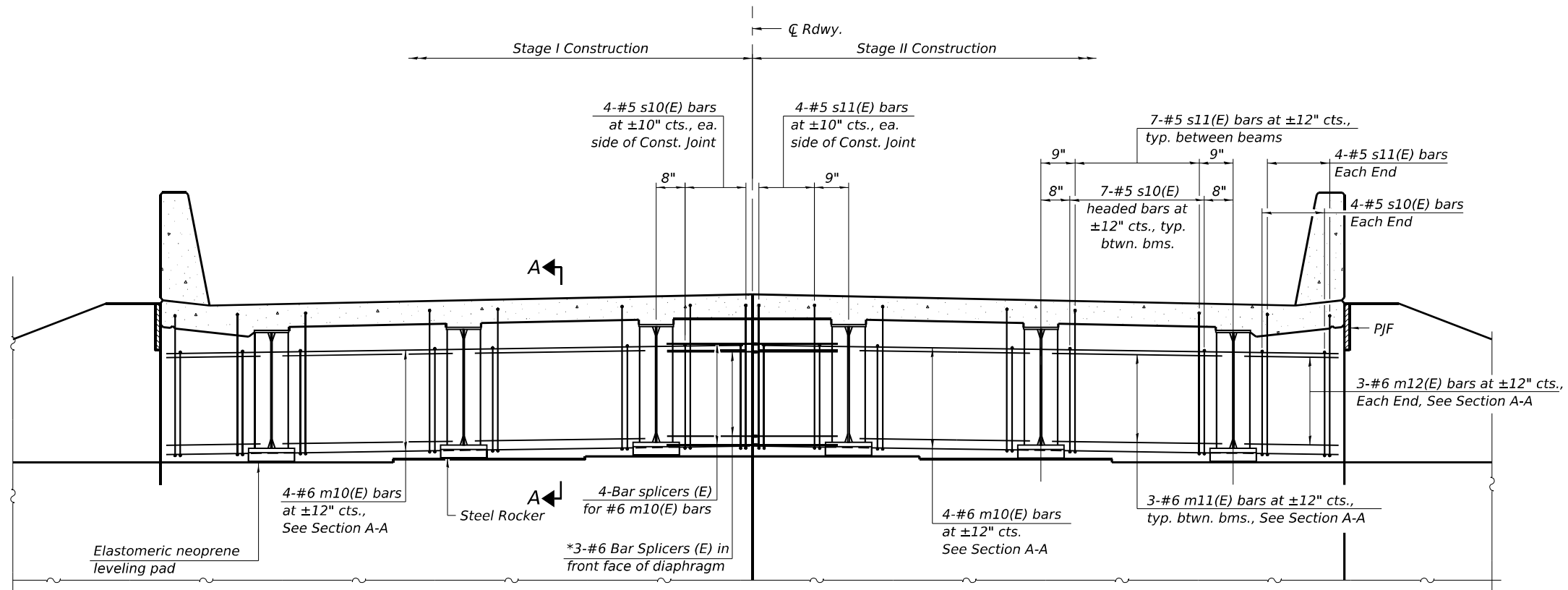
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 039-0084

SHEET 12 OF 31 SHEETS

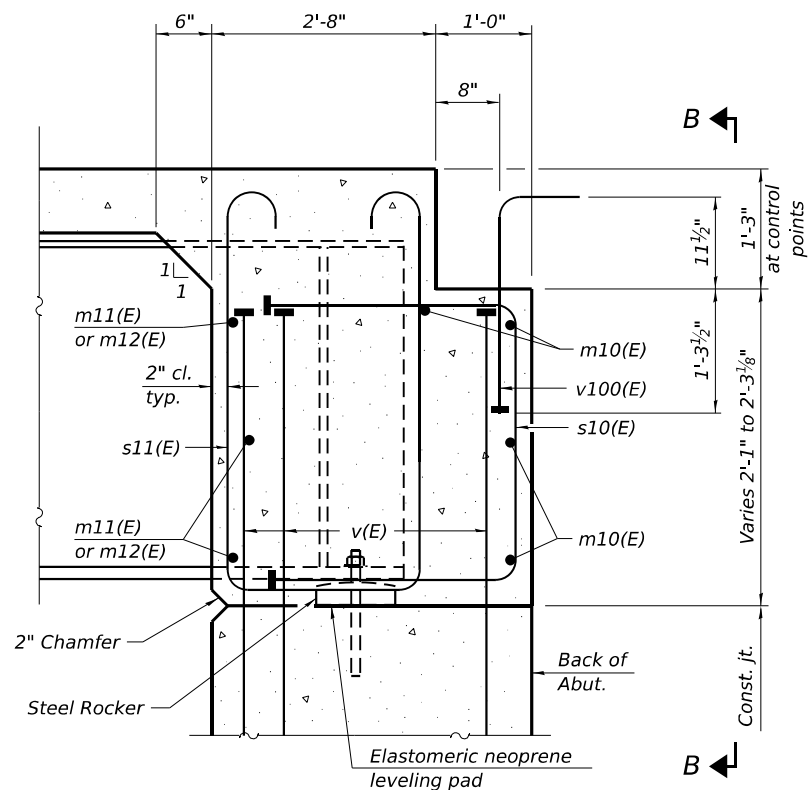
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322	3VB-3	JACKSON	124	80
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

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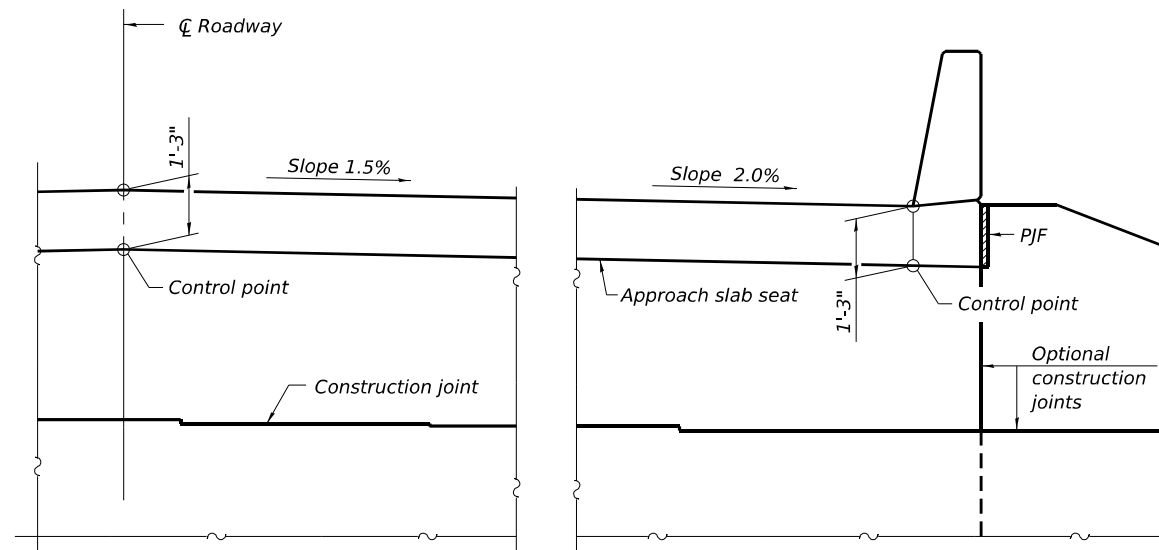


DIAPHRAGM AT ABUTMENT
(Looking East)

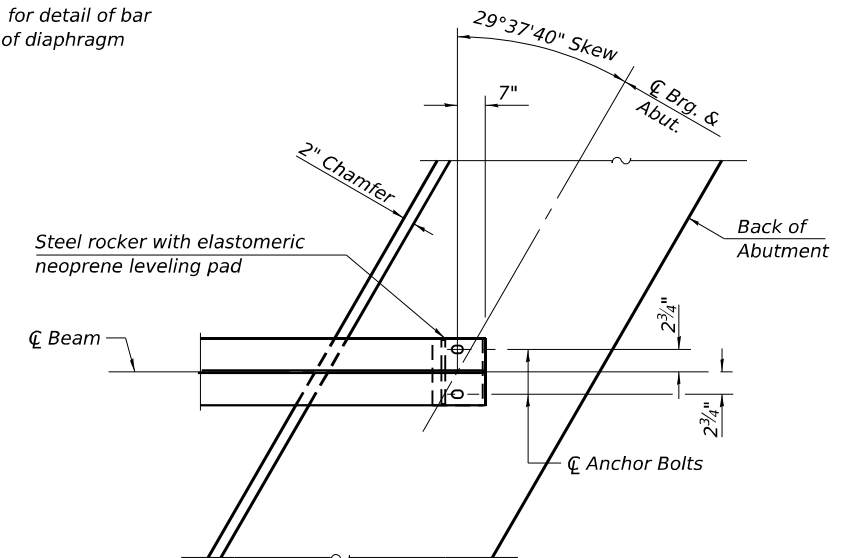
*See Sheet 26 of 31 for detail of bar splicer in front face of diaphragm



SECTION A-A
(at Rt. L's)



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:

See sheet 11 & 12 of 31 for superstructure details and Bill of Material.

See sheet 14 of 31 for PJF details.

The s10(E) and s11(E) bars shall be placed parallel to the beams.

Spacing for these bars shall be at right angles to the beams.

The approach slab seat shall have a constant slope determined from the control points shown.

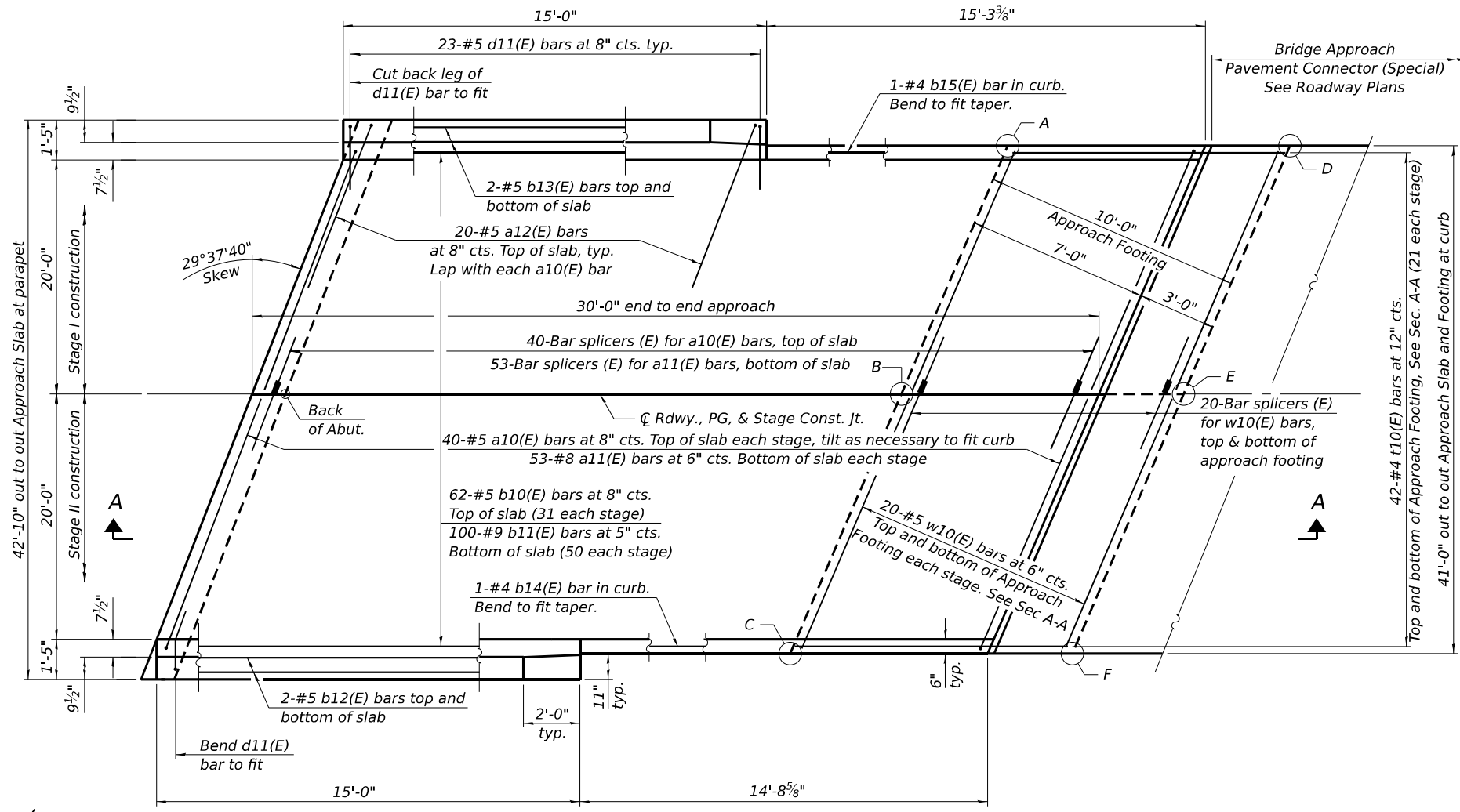
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 039-0084

SHEET 13 OF 31 SHEETS

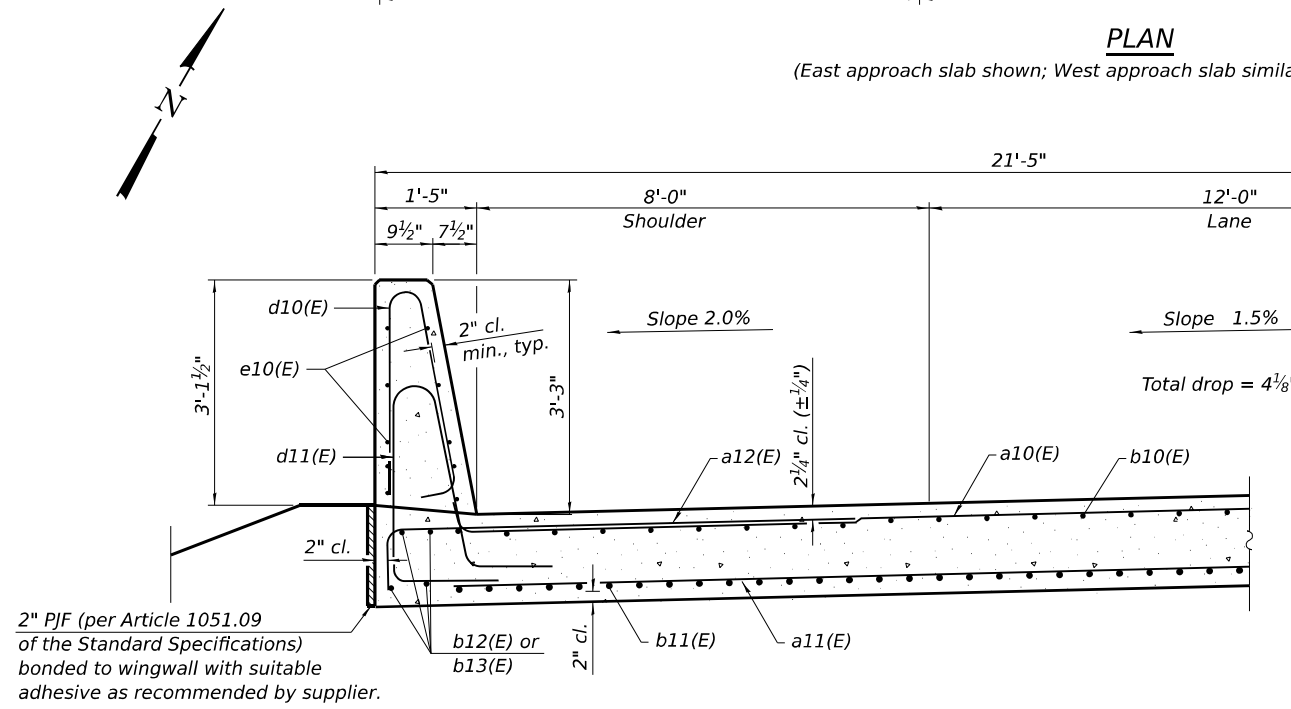
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	81
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

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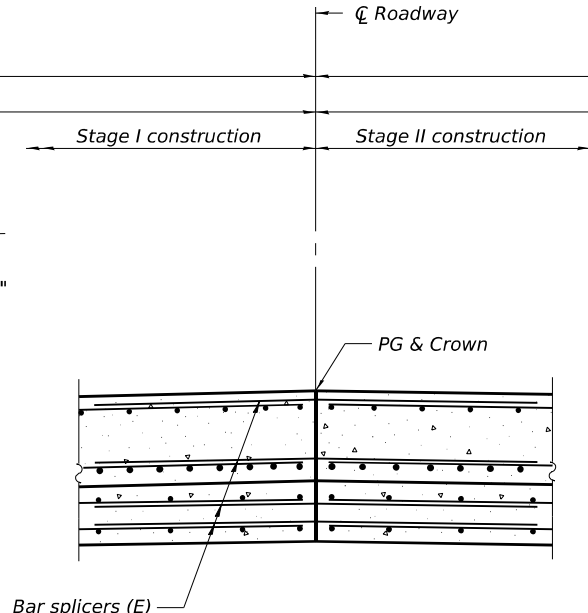


PLAN

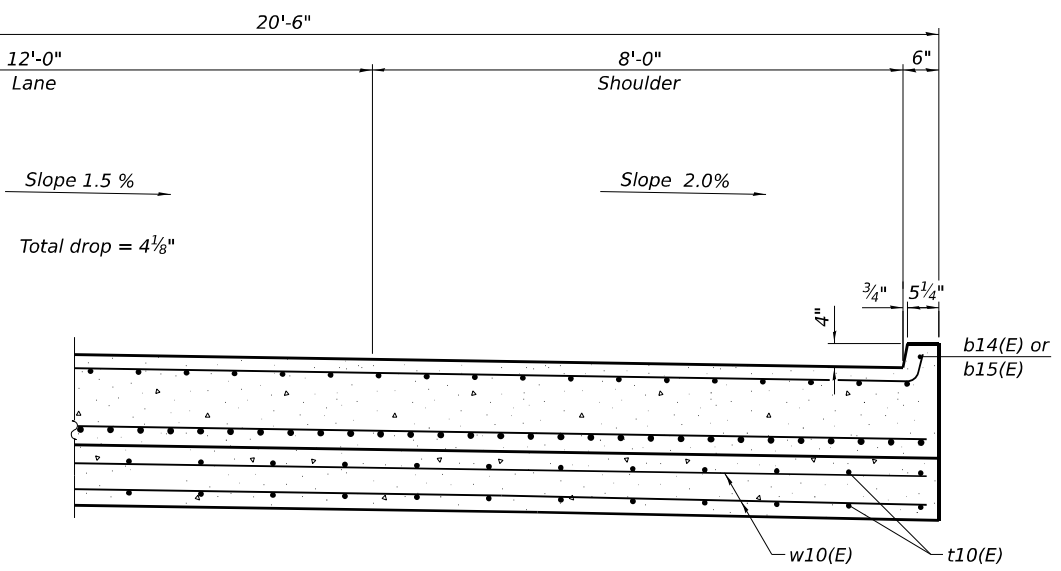
(East approach slab shown; West approach slab similar by 180° rotation)



NEAR ABUTMENT



CROSS SECTION
(Looking East)



AT APPROACH FOOTING

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

West Approach			East Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A - SE	441.44	440.61	A - NW	441.60	440.77
B - E C	441.89	441.05	B - W C	442.03	441.19
C - NE	441.62	440.79	C - SW	441.74	440.91
D - SW	441.35	440.51	D - NE	441.52	440.68
E - W C	441.80	440.96	E - E C	441.95	441.12
F - NW	441.54	440.70	F - SE	441.74	440.91

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8/21/2025 11:09:44 AM



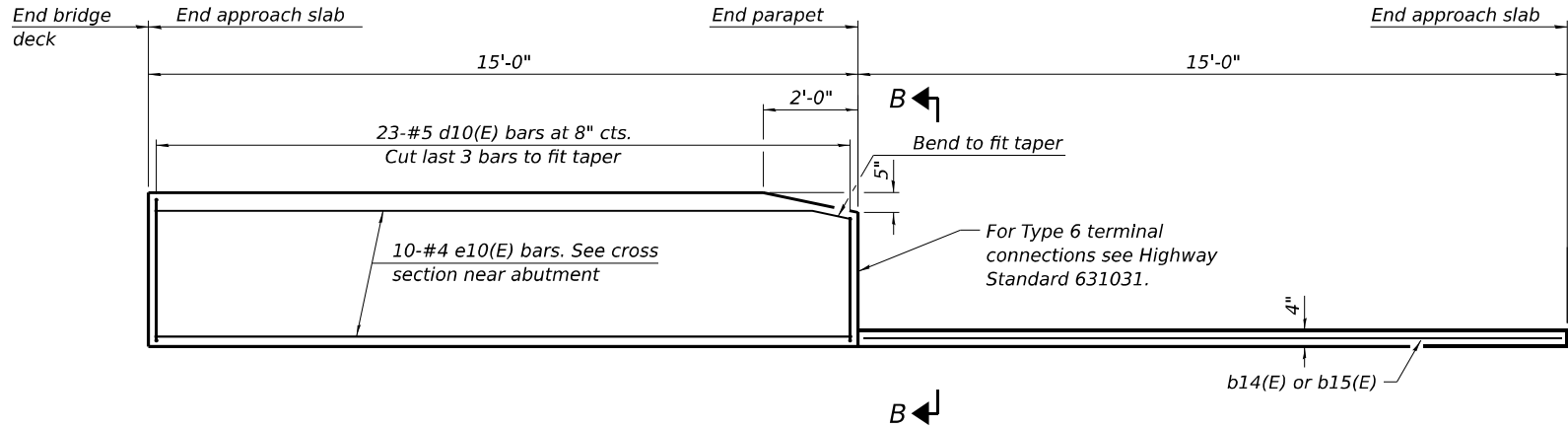
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

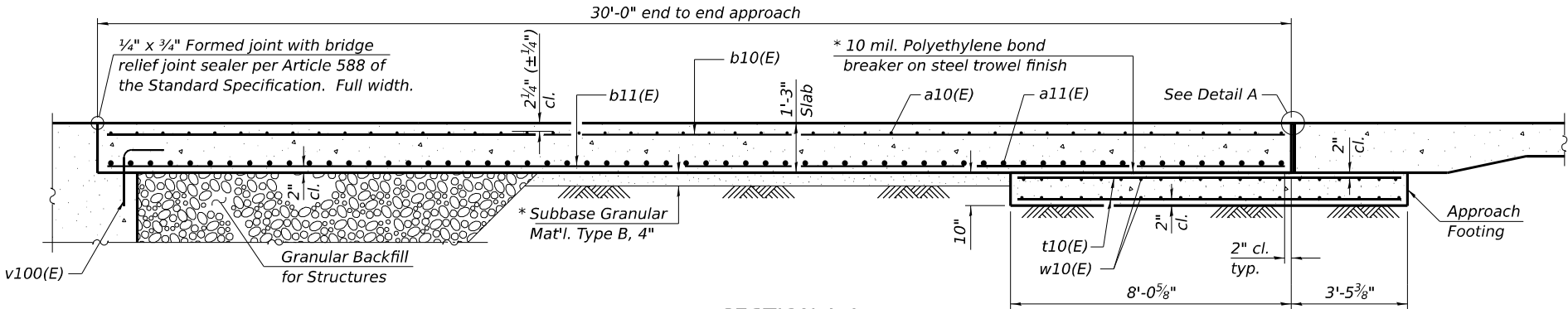
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 039-0084

SHEET 14 OF 31 SHEETS

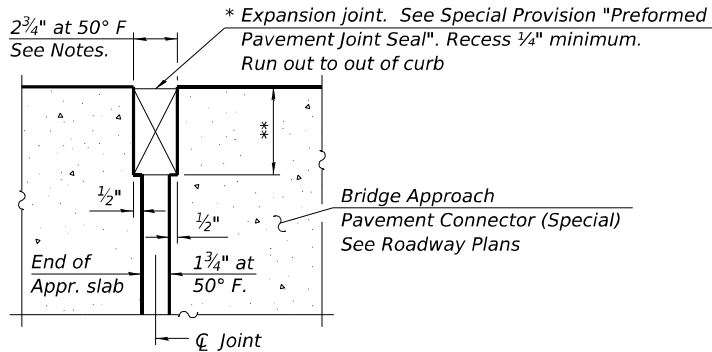
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	82
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



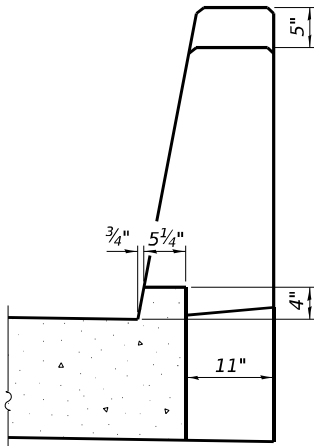
INSIDE ELEVATION OF PARAPET AND CURB



SECTION A-A



DETAIL A
(at Rt. L's)



VIEW B-B

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete shall be paid for as Concrete Superstructure.

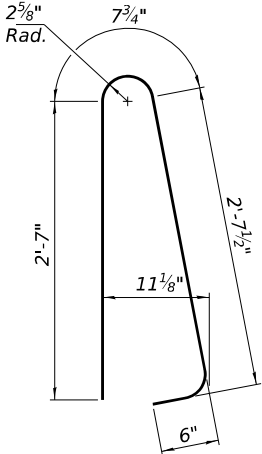
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

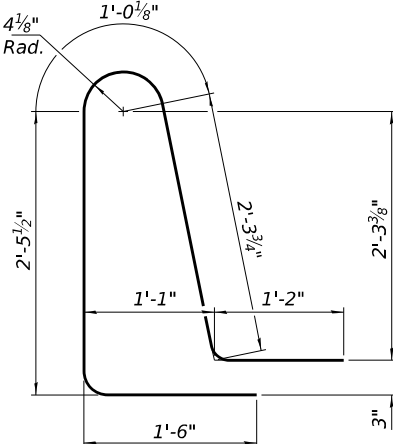
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

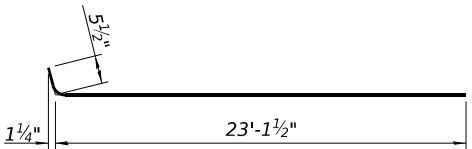
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 31.



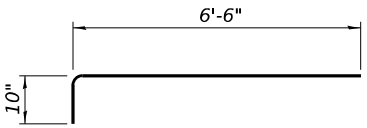
BAR d10(E)



BAR d11(E)



BAR a10(E)



BAR a12(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	160	#5	23'-7"	
a11(E)	212	#8	23'-3"	
a12(E)	80	#5	7'-4"	
b10(E)	124	#5	29'-8"	
b11(E)	200	#9	29'-8"	
b12(E)	8	#5	15'-4"	
b13(E)	8	#5	14'-6"	
b14(E)	2	#4	14'-6"	
b15(E)	2	#4	14'-9"	
d10(E)	92	#5	6'-5"	
d11(E)	92	#5	8'-6"	
e10(E)	40	#4	14'-8"	
t10(E)	168	#4	11'-2"	
w10(E)	160	#5	23'-3"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	116.8
Concrete Structures			Cu. Yd.	29.2
Reinforcement Bars, Epoxy Coated			Pound	48,960

(Sheet 2 of 2)

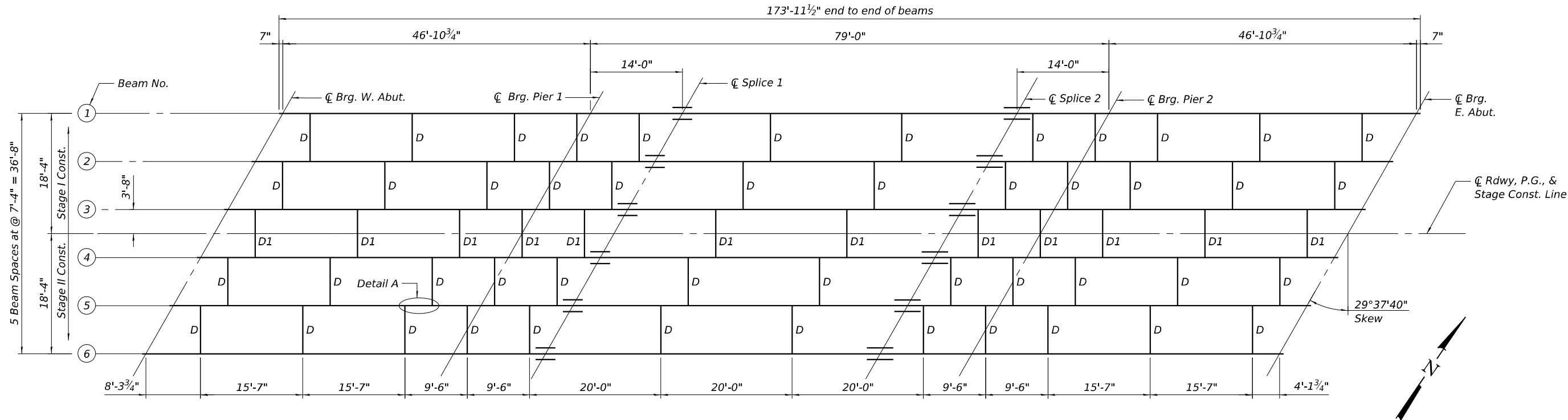
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 039-0084

SHEET 15 OF 31 SHEETS

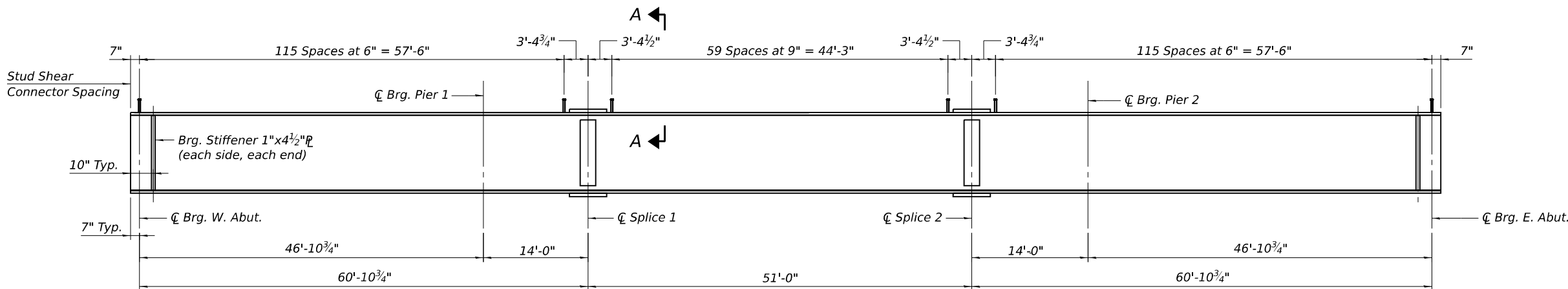
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	83
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

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PLOT DATE =	8/27/2025	CHECKED -	JBE	REVISED -	



FRAMING PLAN

(All beams are W30x148, AASHTO M270 Grade 50, CVN)

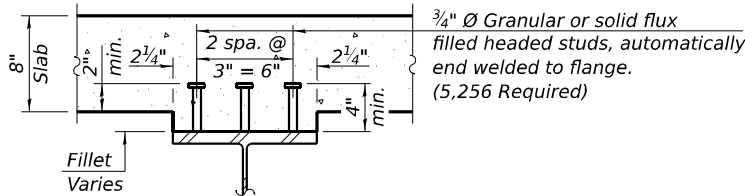


BEAM ELEVATION

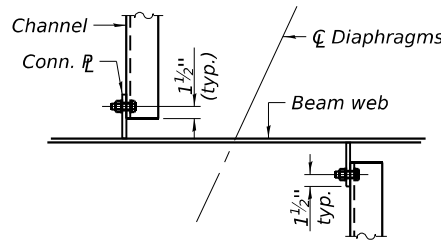
*TOP OF BEAM ELEVATIONS

	℄ Brg. W. Abut.	℄ Brg. Pier 1	Splice 1	Splice 2	℄ Brg. Pier 2	℄ Brg. E. Abut.
Beam 1	442.33	442.44	442.48	442.48	442.44	442.33
Beam 2	442.45	442.57	442.61	442.63	442.59	442.49
Beam 3	442.53	442.67	442.71	442.74	442.71	442.62
Beam 4	442.51	442.66	442.70	442.74	442.72	442.64
Beam 5	442.37	442.54	442.58	442.64	442.62	442.55
Beam 6	442.20	442.38	442.43	442.50	442.48	442.42

*For Fabrication use only



SECTION A-A



DETAIL A

Load carrying components designated "CVN" shall conform to the Charpy-V Notch Impact Energy Requirement, Zone 2.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
See Sheet 17 & 18 of 31 for additional notes and details.

MODEL: Default
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8/21/2025 11:09:45 AM



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL FRAMING
STRUCTURE NO. 039-0084

SHEET 16 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	84
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or Pier 2	0.5 Sp. 2
I_s	(in ⁴)	6680	6680	6680
$I_c(n)$	(in ⁴)	19042	19042	19042
$I_c(3n)$	(in ⁴)	14160	14160	14160
$I_c(cr)$	(in ⁴)	-	9124	-
S_s	(in ³)	436	436	436
$S_c(n)$	(in ³)	656	656	656
$S_c(3n)$	(in ³)	595	595	595
$S_c(cr)$	(in ³)	-	501	-
S_x	(in ³)	-	-	-
$DC1$	(k ^l)	0.920	0.920	0.920
M_{DC1}	(^l k)	79	410	307
$DC2$	(k ^l)	0.263	0.263	0.263
M_{DC2}	(^l k)	15	79	58
DW	(k ^l)	0.333	0.333	0.333
M_{DW}	(^l k)	28	150	110
$LLDF$		0.636	0.589	0.555
$M_{\text{L}} + IM$	(^l k)	495	580	639
f_t (Strength I)	(ksi)	-	-	-
$M_u + \frac{1}{2} f_t S_x$	(^l k)	1026	1851	1740
$\Phi_f M_n$	(^l k)	3479	-	3269
$f_s DC1$	(ksi)	2.17	11.28	8.45
$f_s DC2$	(ksi)	0.30	1.59	1.17
$f_s DW$	(ksi)	0.56	3.02	2.22
$f_s (\text{L}+IM)$	(ksi)	9.06	10.61	11.69
f_t (Service II)	(ksi)	-	-	-
$f_s + \frac{f_t}{2}$ (Service II)	(ksi)	14.82	29.70	27.04
Service II Resistance	(ksi)	47.50	47.50	47.50
$f_s + \frac{f_t}{3}$ (Strength I)	(ksi)	-	46.14	-
$\Phi_f F_n$	(ksi)	-	50	-
V_f	(k)	-	31.5	-

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).
- S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).
- $DC1$: Un-factored non-composite dead load (kips/ft.).
- M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
- $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- $LLDF$: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- $M_{\text{L}} + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u : Strength I load combination of factored design moments (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\text{L}} + IM$
- f_t : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).
- $\Phi_f M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

- $f_s DC1$: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_s
- $f_s DC2$: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
- $f_s DW$: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
- $f_s (\text{L} + IM)$: Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_{\text{L}} + IM / S_c(n)$ or $M_{\text{L}} + IM / S_c(cr)$ as applicable.
- $f_s + f_t / 2$ (Service II): Sum of stresses as computed below (ksi).
 $f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (\text{L} + IM) + f_t / 2$
- Service II Resistance: Composite (0.95R_tF_{yI}) or noncomposite (0.80R_tF_{yI}) stress capacity according to Article 6.10.4.2 (ksi).
- $f_s + f_t / 3$ (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
 $1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (\text{L} + IM) + f_t / 3$
- $\Phi_f F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
- V_f : Maximum factored shear range in span computed according to Article 6.10.10.
- OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
- R_{DC1} : Un-factored reaction due to non-composite dead load (kip).
- R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R_{L} : Un-factored live load reaction (kip).
- R_{IM} : Un-factored dynamic load allowance (impact) (kip).
- R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
 $1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_{\text{L}} + R_{IM})$
- R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
 $1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_{\text{L}})$

GIRDER REACTION TABLE				
	S. Abut.	Pier 1	Pier 2	N. Abut.
$LLDF$	0.767	0.767	0.767	0.767
OCF	1.114	-	-	1.114
R_{DC1}	(k) 13.7	66.7	66.7	13.7
R_{DC2}	(k) 2.4	12.7	12.7	2.4
R_{DW}	(k) 4.6	24.2	24.2	4.6
R_{L}	(k) 59.1	90.8	90.8	59.1
R_{IM}	(k) 15.6	17.8	17.8	15.6
R_{Total} (Strength I)(Impact)	(k) 157.8	325.6	325.6	157.8
R_{Total} (Strength I)(No Impact)	(k) 130.5	294.5	294.5	130.5



TWM, INC.
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ILL. DESIGN FIRM
LICENSE NO:
184-001220

USER NAME =	bpollter	DESIGNED -	TCS	REVISED -	
		CHECKED -	BWP	REVISED -	
PLOT SCALE =	0:2,000'":' / in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/27/2025	CHECKED -	BWP	REVISED -	

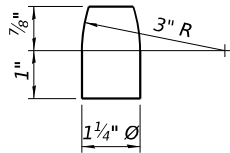
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 039-0084

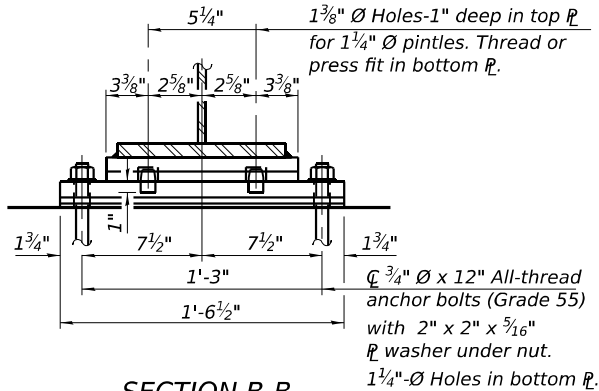
SHEET 18 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	86
CONTRACT NO. 78937				
		ILLINOIS	FED. AID PROJECT	

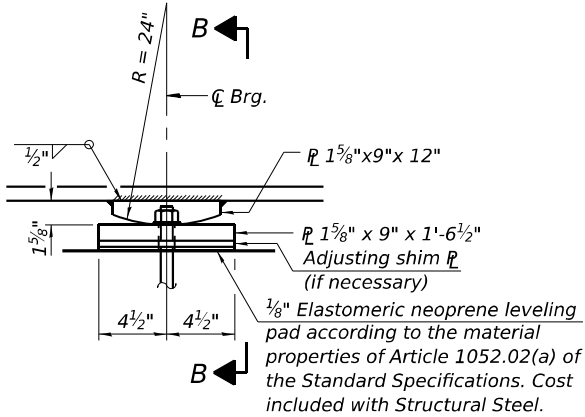
Notes:
Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
All (embedded and separate) bearing plates, anchor bolts, nuts, washers, and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



PINTLE



SECTION B-B

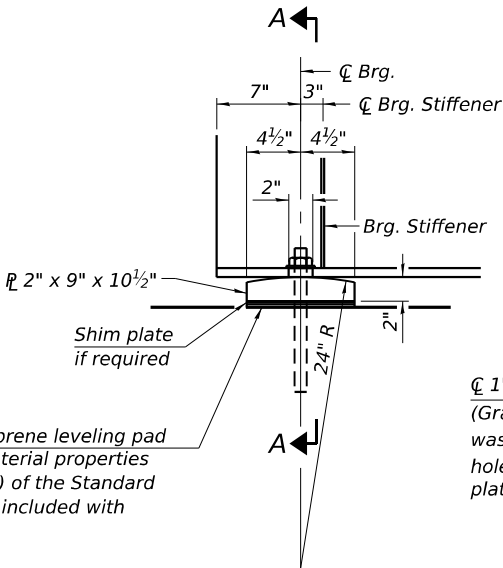


ELEVATION AT PIER

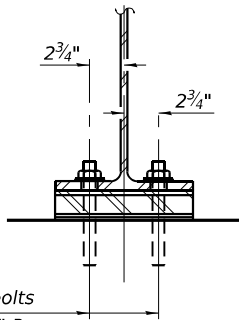
FIXED BEARING AT PIER
(12 Required)

FILL PLATE THICKNESS TABLE

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
West Abut.	-	-	3/8"	-	-	-
Pier 1	-	-	1/8"	-	-	-
Pier 1	-	-	-	1/8"	-	-
East Abut.	-	-	-	1/4"	-	-



ELEVATION AT ABUTMENT



SECTION A-A

FIXED BEARING AT ABUTMENT
(12 Required)

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	24
Anchor Bolts, 3/4"	Each	24

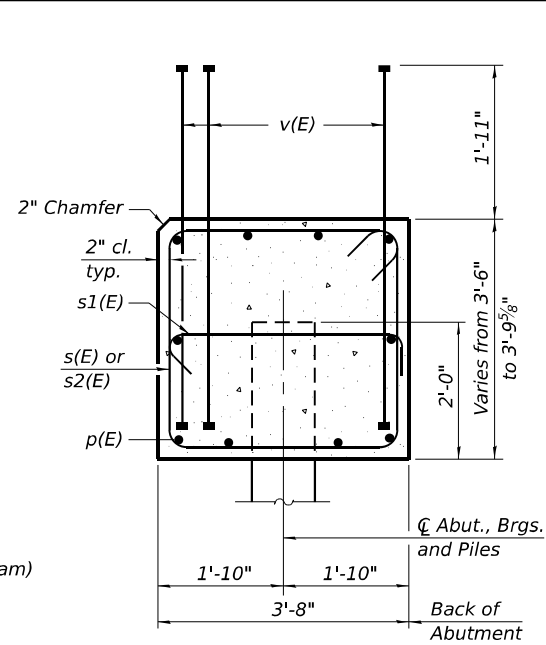
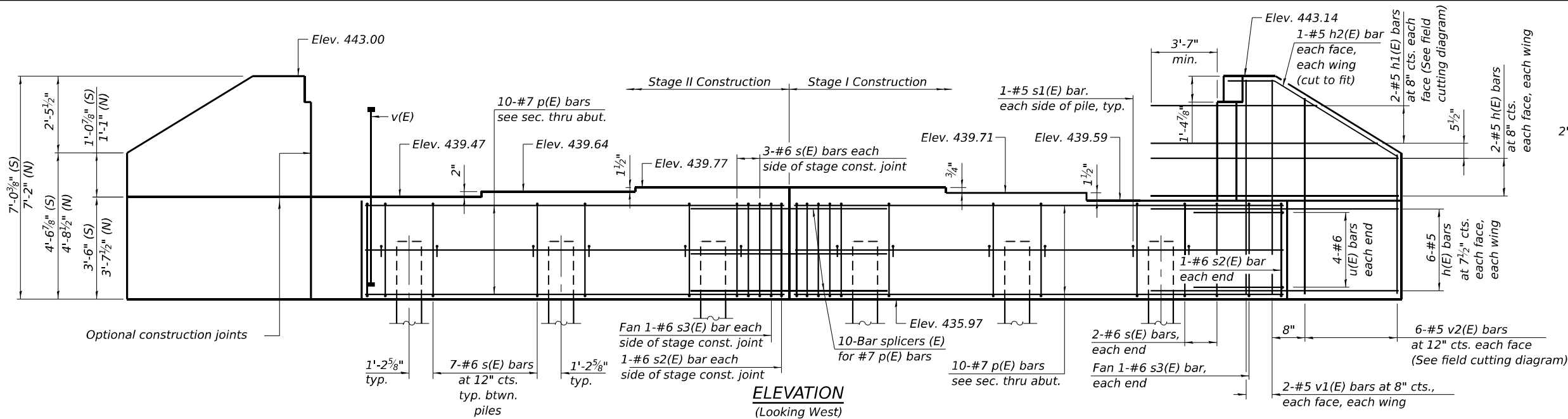
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 039-0084

SHEET 19 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	87
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

USER NAME =	bpolter	DESIGNED -	TCS	REVISED -	
		CHECKED -	BWP	REVISED -	
PLOT SCALE =	0:2,000' = 1" / in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/27/2025	CHECKED -	BWP	REVISED -	



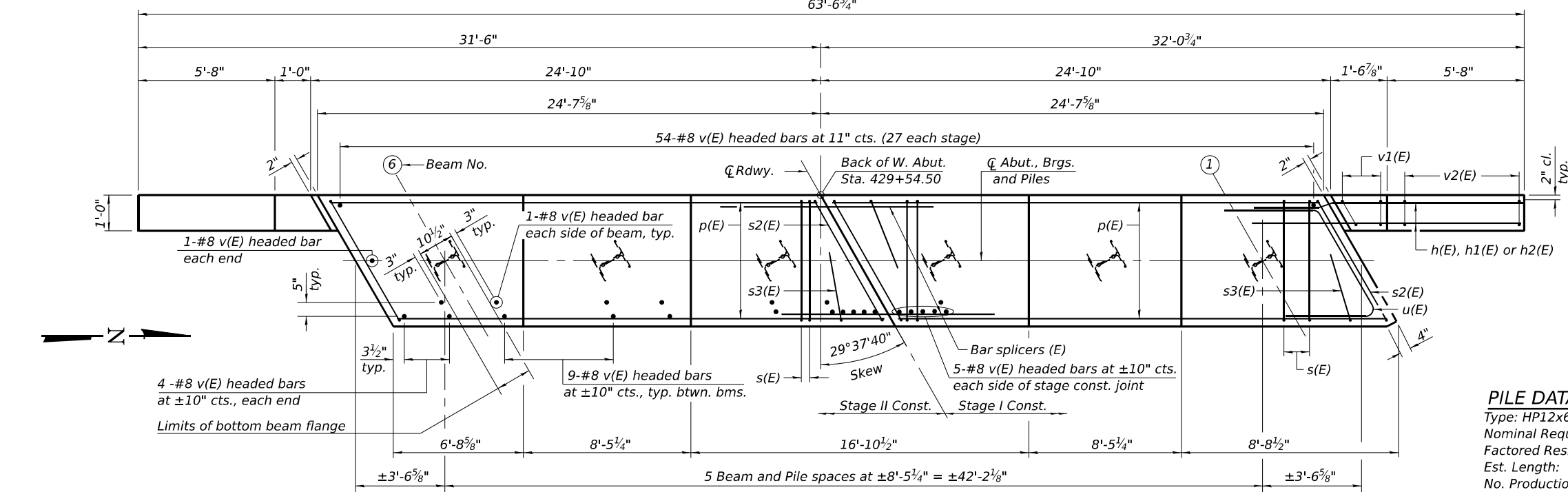
SEC. THRU ABUT.
Dimensions at right angles to abutment.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	10'-9"	
h1(E)	4	#5	18'-6"	
h2(E)	4	#5	7'-4"	
p(E)	20	#7	24'-3"	
s(E)	38	#6	14'-4"	
s1(E)	12	#5	4'-4"	
s2(E)	4	#6	15'-4"	
s3(E)	4	#6	7'-2"	
u(E)	8	#6	12'-4"	
v(E)	122	#8	5'-2"	
v1(E)	8	#5	6'-8"	
v2(E)	12	#5	10'-10"	
Structure Excavation			Cu. Yd.	160
Concrete Structures			Cu. Yd.	28.1
Reinforcement Bars, Epoxy Coated			Pound	4,490
Furnishing Steel Piles HP 12x63			Foot	200
Driving Piles			Foot	200
Test Pile, Steel HP 12x63			Each	1
Pile Shoes			Each	6

PILE DATA

Type: HP12x63
Nominal Required Bearing: 497 kips
Factored Resistance Available: 273 kips
Est. Length: 40 Ft.
No. Production Piles: 5
No. Test Piles: 1



PLAN



FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.

BAR v(E)
(Headed. 244-#8 Bar terminators each abutment)

BAR h2(E)

BAR s(E) & s2(E)

ANCHOR BOLT DETAIL

(See Sheet 19 of 31)

BAR s1(E)

BAR s3(E)

BAR u(E)

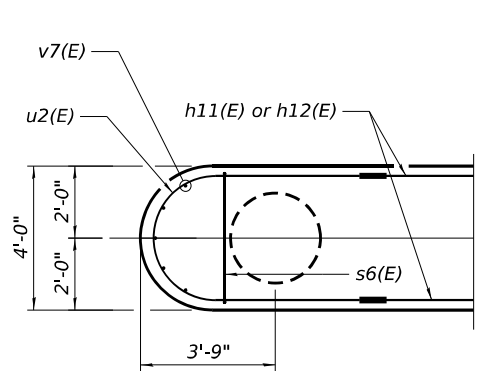
Notes:
Pour steps monolithically with cap.
For details of piles see sheet 25 of 31.
Bar terminators, paid for separately.
See Total Bill of Material.
For details of bar splicers, see sheet 26 of 31.

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DEPARTMENT OF TRANSPORTATION

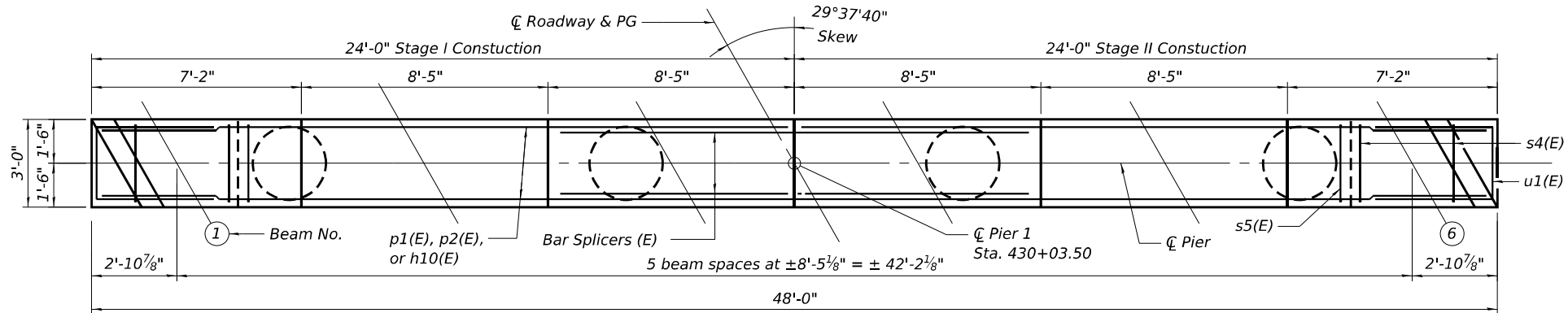
WEST ABUTMENT
STRUCTURE NO. 039-0084

SHEET 20 OF 31 SHEETS

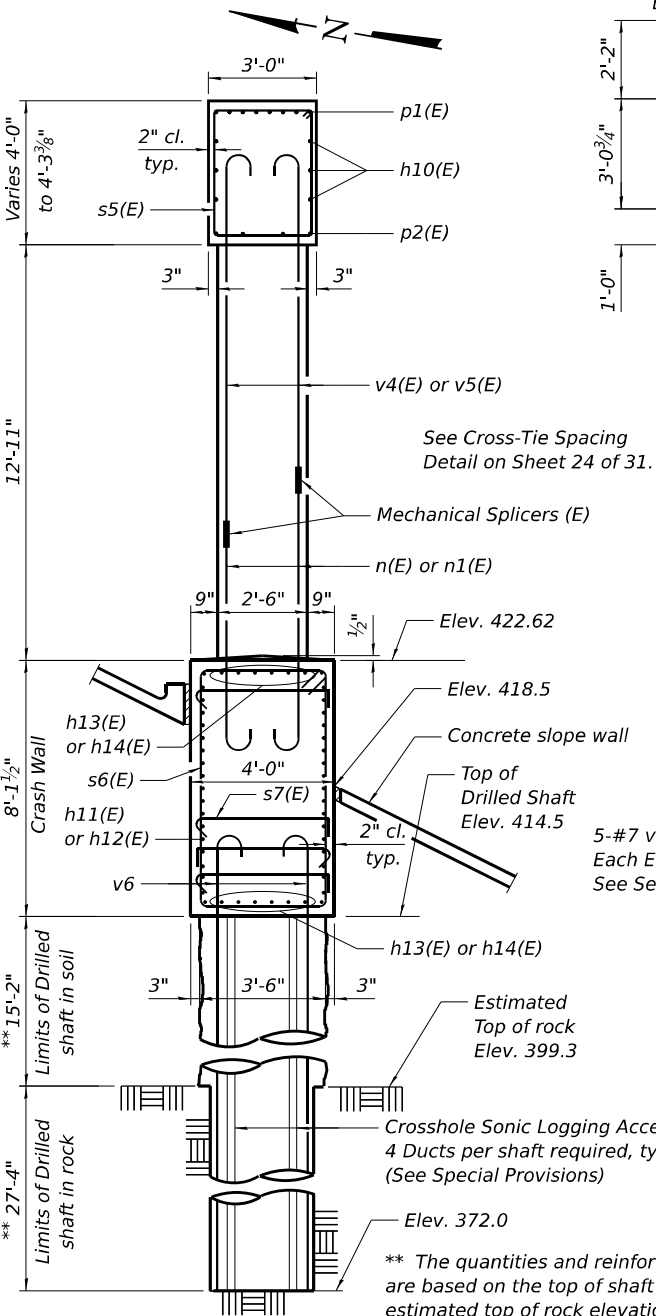
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	88
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



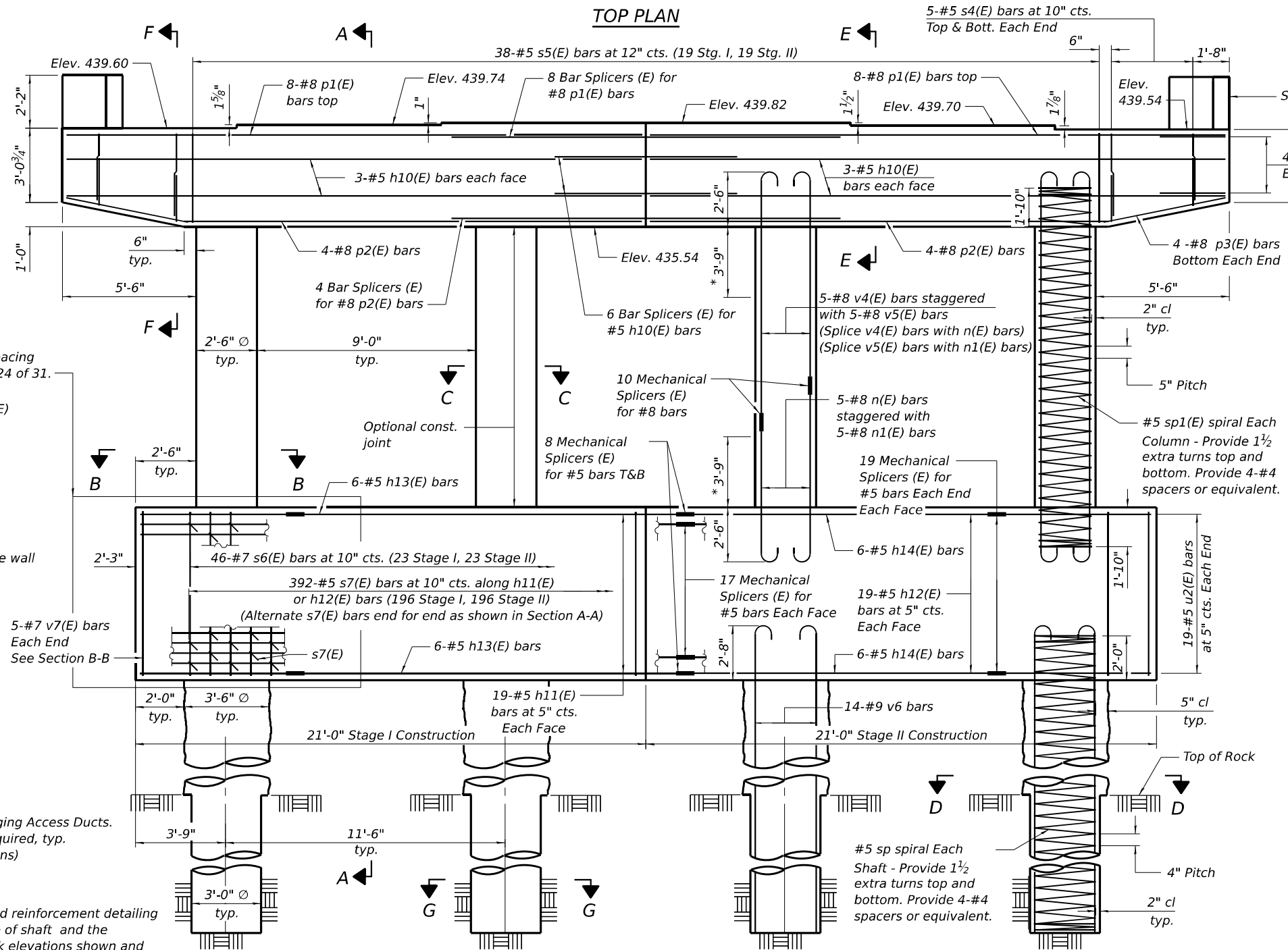
SECTION B-B



TOP PLAN



SECTION A-A



ELEVATION
(Looking East)

Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall both terminate with a 135° standard hook with an extension into the core with a length of six times the spiral bar diameter.
Hooked ends of longitudinal column reinforcement may be oriented outward or inward at the contractor's option to minimize reinforcement congestion and facilitate concrete placement. Hook orientation shall maintain required clear cover and shall not interfere with transverse reinforcement. Up to 25% of the hooked bars in each column may be oriented outward.
See sheet 24 of 31 for Sections C-C, D-D, E-E, F-F, G-G, Rebar Details, Anchor Bolt, Shear Key and Cross-Tie Spacing Details.

* Plastic hinge region.
Splicing of longitudinal reinforcement not allowed.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	12	#5	23'-8"	—
h11(E)	38	#5	15'-11"	—
h12(E)	38	#5	13'-5"	—
h13(E)	12	#5	20'-4"	—
h14(E)	12	#5	17'-10"	—
h15(E)	24	#4	3'-0"	—
h16(E)	12	#6	10'-0"	—
p1(E)	16	#8	23'-8"	—
p2(E)	8	#8	18'-10"	—
p3(E)	8	#8	5'-1"	—
n(E)	20	#8	8'-2"	—
n1(E)	20	#8	10'-2"	—
s4(E)	20	#5	8'-8"	—
s5(E)	38	#5	13'-7"	—
s6(E)	46	#7	24'-4"	—
s7(E)	392	#5	4'-8"	—
sp	4	#5	44'-6"	—
sp1(E)	4	#5	16'-7"	—
u1(E)	8	#6	11'-2"	—
u2(E)	38	#5	14'-2"	—
v4(E)	20	#8	11'-7"	—
v5(E)	20	#8	9'-7"	—
v6	56	#9	46'-5"	—
v7(E)	10	#7	7'-9"	—
v8(E)	24	#4	4'-0"	—
Structure Excavation		Cu. Yd.	68	
Concrete Structures		Cu. Yd.	82.0	
Reinforcement Bars		Pound	13,520	
Reinforcement Bars, Epoxy Coated		Pound	12,820	
Drilled Shaft in Soil		Cu. Yd.	21.7	
Drilled Shaft in Rock		Cu. Yd.	28.6	
Crosshole Sonic Logging Access Ducts		Foot	170	
Crosshole Sonic Logging Testing		Each	1	

*** Length is height of spiral.

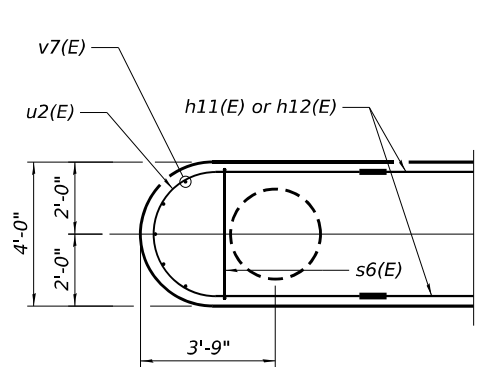
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 039-0084

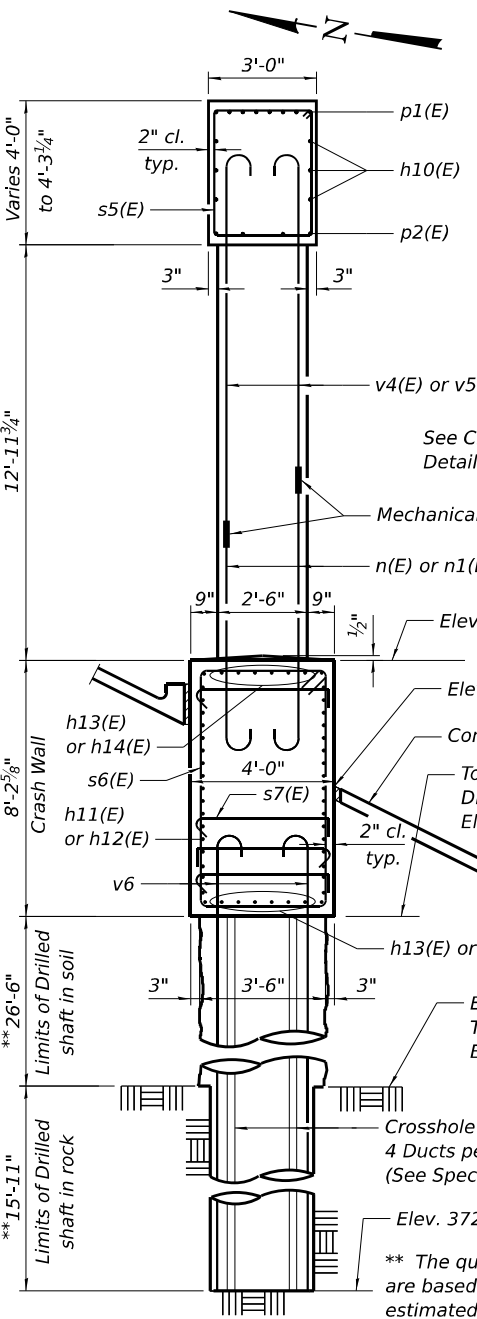
SHEET 22 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	90
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

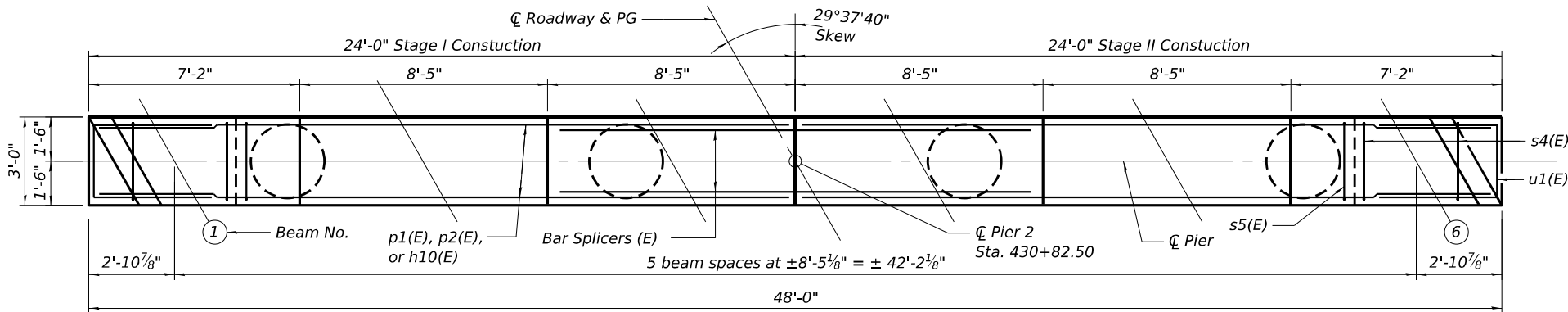
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PLOT SCALE =	0:2,000'"/in.	CHECKED -	BWP	REVISED -	
PLOT DATE =	8/27/2025	DRAWN -	TCS	REVISED -	
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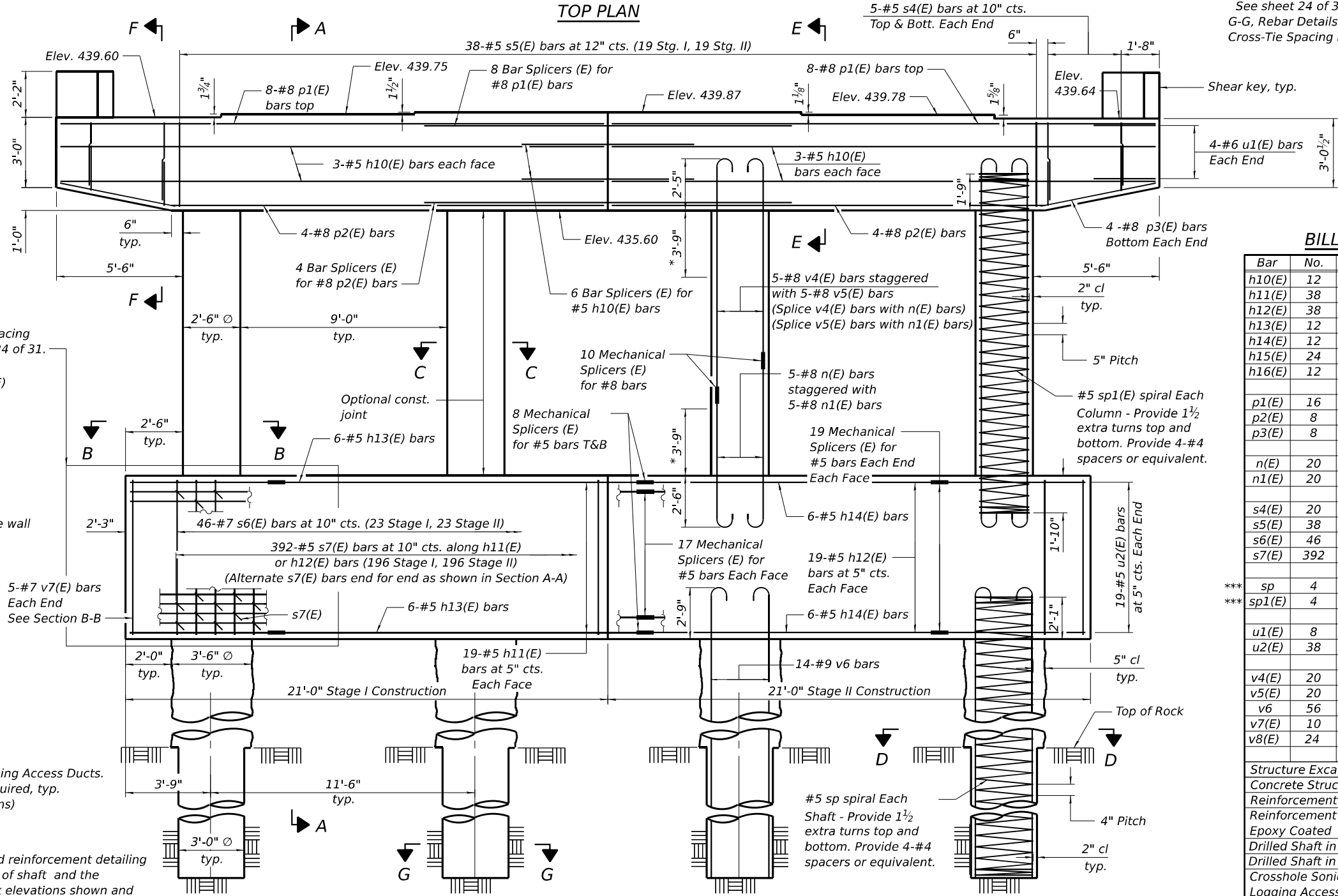
SECTION B-B



SECTION A-A



TOP PLAN



ELEVATION
(Looking East)

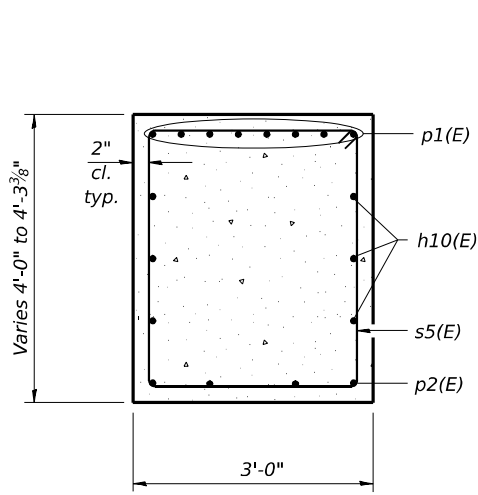
Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall both terminate with a 135° standard hook with an extension into the core with a length of six times the spiral bar diameter.
Hooked ends of longitudinal column reinforcement may be oriented outward or inward at the contractor's option to minimize reinforcement congestion and facilitate concrete placement. Hook orientation shall maintain required clear cover and shall not interfere with transverse reinforcement. Up to 25% of the hooked bars in each column may be oriented outward.
See sheet 24 of 31 for Sections C-C, D-D, E-E, F-F, G-G, Rebar Details, Anchor Bolt, Shear Key and Cross-Tie Spacing Details.

*Plastic hinge region.
Splicing of longitudinal reinforcement not allowed.

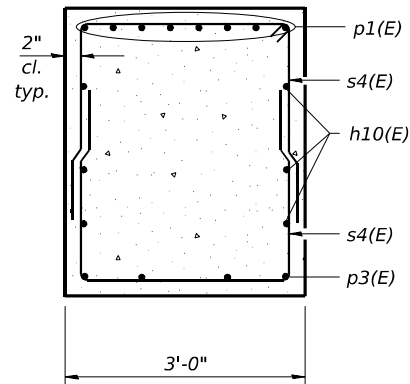
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	12	#5	23'-8"	—
h11(E)	38	#5	15'-11"	—
h12(E)	38	#5	13'-5"	—
h13(E)	12	#5	20'-4"	—
h14(E)	12	#5	17'-10"	—
h15(E)	24	#4	3'-0"	—
h16(E)	12	#6	10'-0"	—
p1(E)	16	#8	23'-8"	—
p2(E)	8	#8	18'-10"	—
p3(E)	8	#8	5'-1"	—
n(E)	20	#8	8'-2"	—
n1(E)	20	#8	10'-2"	—
s4(E)	20	#5	8'-8"	—
s5(E)	38	#5	13'-7"	—
s6(E)	46	#7	24'-4"	—
s7(E)	392	#5	4'-8"	—
sp	4	#5	44'-6"	—
sp1(E)	4	#5	16'-7"	—
u1(E)	8	#6	11'-2"	—
u2(E)	38	#5	14'-2"	—
v4(E)	20	#8	11'-7"	—
v5(E)	20	#8	9'-7"	—
v6	56	#9	46'-5"	—
v7(E)	10	#7	7'-9"	—
v8(E)	24	#4	4'-0"	—
Structure Excavation		Cu. Yd.	68	
Concrete Structures		Cu. Yd.	82.8	
Reinforcement Bars		Pound	13,520	
Reinforcement Bars, Epoxy Coated		Pound	12,820	
Drilled Shaft in Soil		Cu. Yd.	37.8	
Drilled Shaft in Rock		Cu. Yd.	16.7	
Crosshole Sonic Logging Access Ducts		Foot	170	
Crosshole Sonic Logging Testing		Each	1	

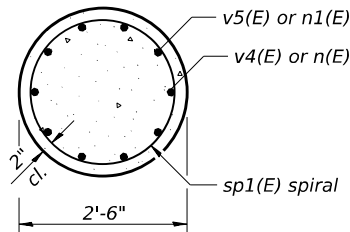
*** Length is height of spiral.



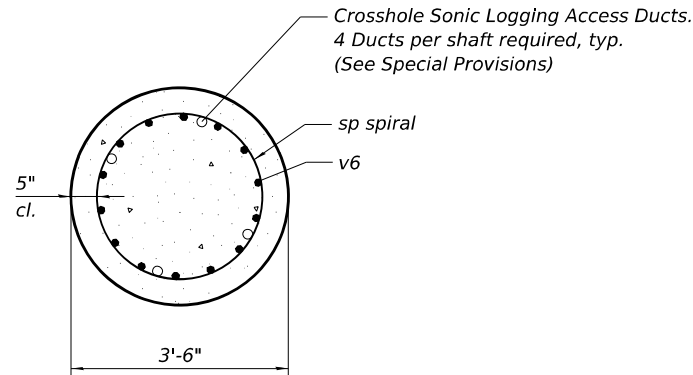
SECTION E-E



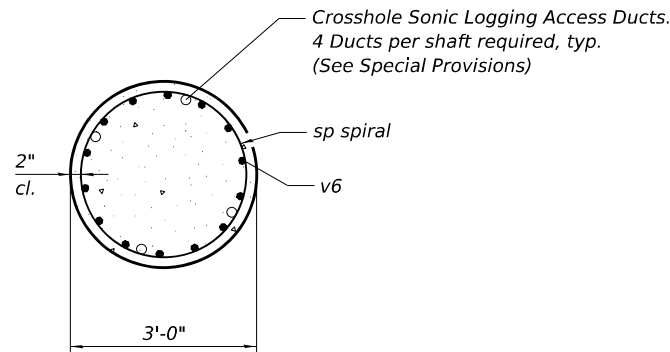
SECTION F-F



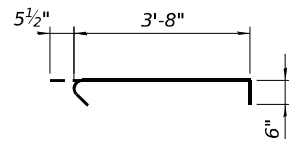
SECTION C-C



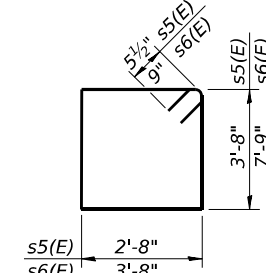
SECTION D-D



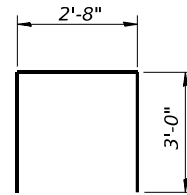
SECTION G-G



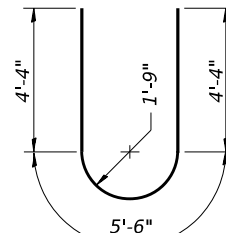
BAR s7(E)



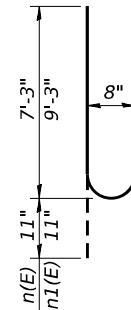
BAR s5(E) & s6(E)



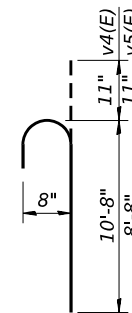
BAR s4(E)



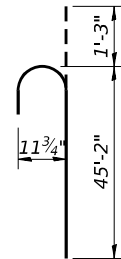
BAR u2(E)



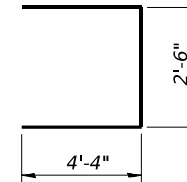
BARS n(E) & n1(E)



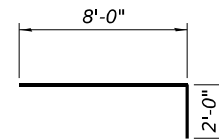
BARS v4(E) & v5(E)



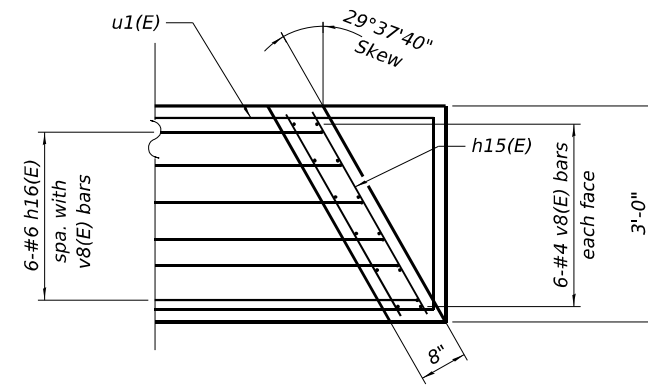
BAR v6



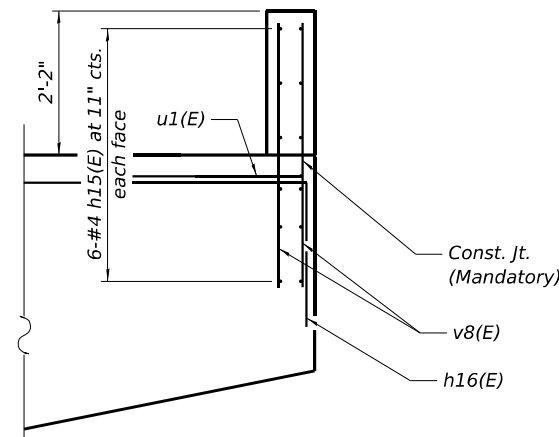
BAR u1(E)



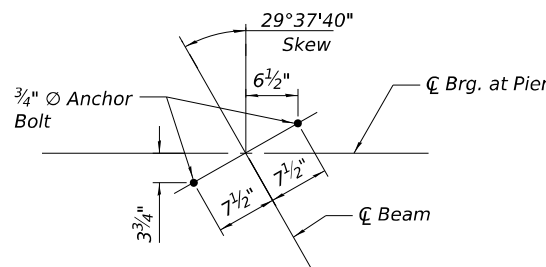
BAR h16(E)



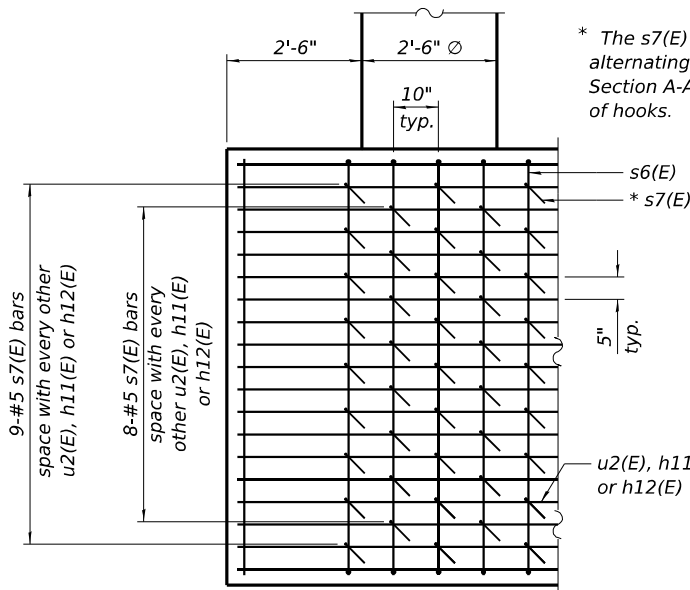
SHEAR KEY PLAN



SHEAR KEY ELEVATION



ANCHOR BOLT DETAIL



CROSS-TIE SPACING DETAIL

See sheets 22 & 23 of 31 for information not shown

* The s7(E) cross-tie bars shall be placed such that alternating layers of ties have opposing hooks. See Section A-A on sheets 22 and 23 of 31 for orientation of hooks.

See sheets 22 & 23 of 31 for information not shown

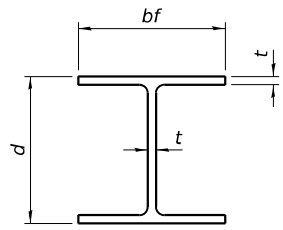
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
STRUCTURE NO. 039-0084

SHEET 24 OF 31 SHEETS

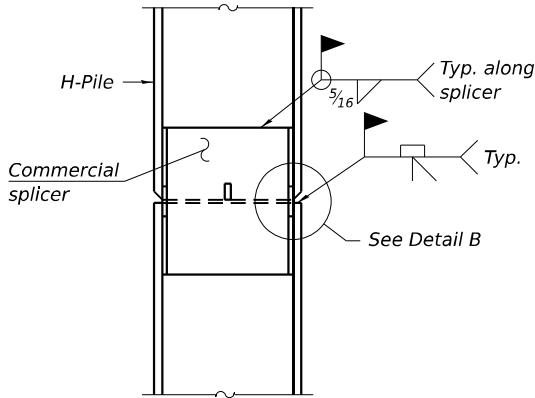
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	92
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

USER NAME =	bpoller	DESIGNED -		REVISED -	
		CHECKED -	BWP	REVISED -	
PLOT SCALE =	0:2,000'"/ in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

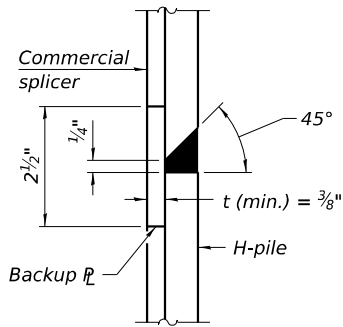


STEEL PILE TABLE

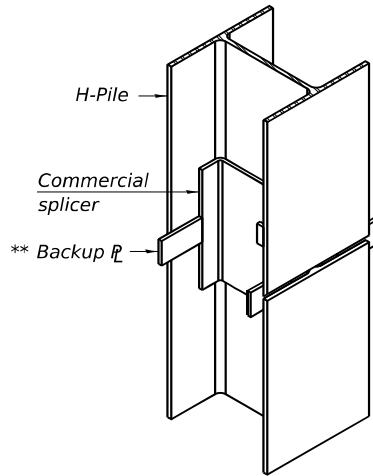
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 18x181	18	18	1	36"
x157	17 ³ / ₄ "	17 ⁷ / ₈ "	⁷ / ₈ "	36"
x135	17 ¹ / ₂ "	17 ³ / ₄ "	³ / ₄ "	36"
HP 16x183	16 ¹ / ₂ "	16 ¹ / ₂ "	1 ¹ / ₈ "	36"
x162	16 ¹ / ₄ "	16 ¹ / ₈ "	1"	36"
x141	16	16	⁷ / ₈ "	36"
x121	15 ³ / ₄ "	15 ⁷ / ₈ "	³ / ₄ "	36"
HP 14x117	14 ¹ / ₄ "	14 ⁷ / ₈ "	1 ³ / ₁₆ "	30"
x102	14"	14 ³ / ₄ "	1 ¹ / ₁₆ "	30"
x89	13 ⁷ / ₈ "	14 ³ / ₄ "	⁵ / ₈ "	30"
x73	13 ⁵ / ₈ "	14 ⁵ / ₈ "	¹ / ₂ "	30"
HP 12x84	12 ¹ / ₄ "	12 ¹ / ₄ "	1 ¹ / ₁₆ "	24"
x74	12 ¹ / ₈ "	12 ¹ / ₄ "	⁵ / ₈ "	24"
x63	12"	12 ¹ / ₈ "	¹ / ₂ "	24"
x53	11 ³ / ₄ "	12"	⁷ / ₁₆ "	24"
HP 10x57	10"	10 ¹ / ₄ "	⁹ / ₁₆ "	24"
x42	9 ³ / ₄ "	10 ¹ / ₈ "	⁷ / ₁₆ "	24"
HP 8x36	8"	8 ¹ / ₈ "	⁷ / ₁₆ "	18"



ELEVATION

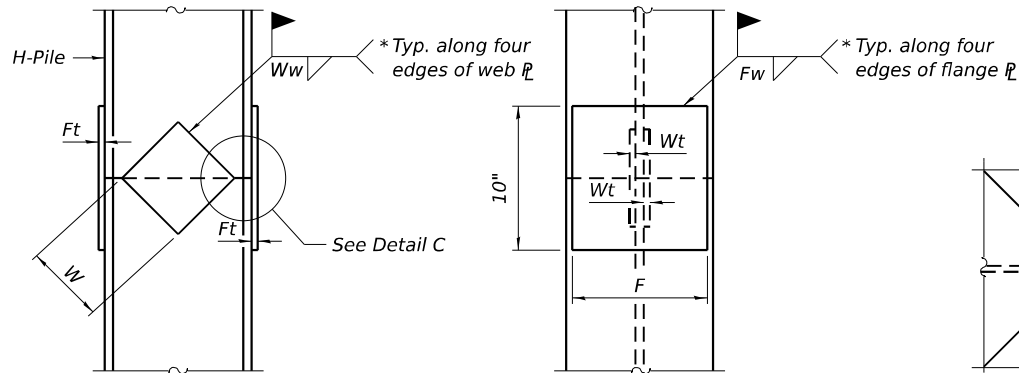


DETAIL B



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



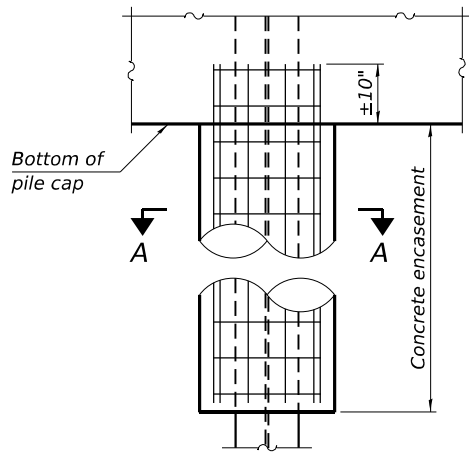
ELEVATION

END VIEW

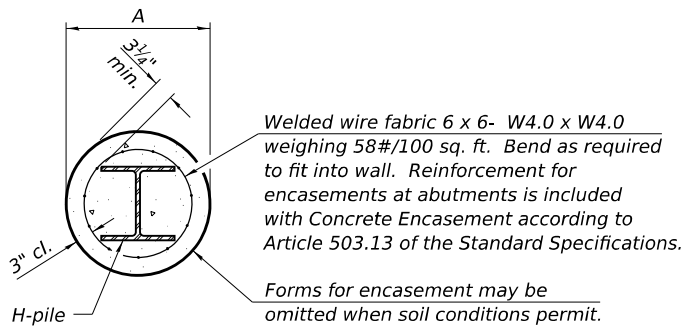
DETAIL C

Designation	F	Ft	Fw	W	Wt	Ww
HP 18x181	15 ¹ / ₂ "	1 ¹ / ₂ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
x157	15 ¹ / ₄ "	1 ¹ / ₄ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
x135	15 ¹ / ₄ "	1 ¹ / ₄ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
HP 16x183	13 ³ / ₄ "	1 ¹ / ₂ "	1"	8 ¹ / ₄ "	⁷ / ₈ "	³ / ₄ "
x162	13 ¹ / ₂ "	1 ¹ / ₂ "	1"	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
x141	13 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
x121	13 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
HP 14x117	12 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x102	12 ¹ / ₂ "	1"	³ / ₄ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x89	12 ¹ / ₂ "	⁷ / ₈ "	1 ¹ / ₁₆ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x73	12 ¹ / ₂ "	³ / ₄ "	⁹ / ₁₆ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
HP 12x84	10"	1"	1 ¹ / ₁₆ "	6 ¹ / ₂ "	⁵ / ₈ "	¹ / ₂ "
x74	10"	⁷ / ₈ "	1 ¹ / ₁₆ "	6 ¹ / ₂ "	⁵ / ₈ "	¹ / ₂ "
x63	10"	³ / ₄ "	¹ / ₂ "	6 ¹ / ₂ "	¹ / ₂ "	³ / ₈ "
x53	10"	³ / ₄ "	¹ / ₂ "	6 ¹ / ₂ "	¹ / ₂ "	³ / ₈ "
HP 10x57	8"	⁷ / ₈ "	⁹ / ₁₆ "	5 ¹ / ₄ "	¹ / ₂ "	³ / ₈ "
x42	8"	³ / ₄ "	⁹ / ₁₆ "	5 ¹ / ₄ "	¹ / ₂ "	³ / ₈ "
HP 8x36	6 ³ / ₄ "	⁵ / ₈ "	⁷ / ₁₆ "	4"	¹ / ₂ "	³ / ₈ "

WELDED PLATE FIELD SPLICE

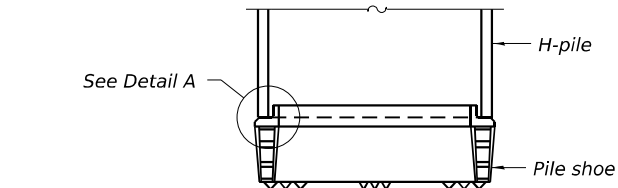


ELEVATION

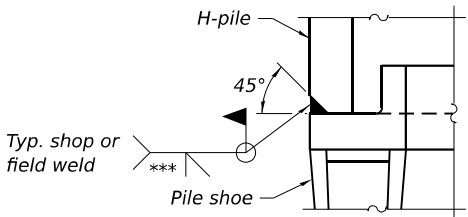


SECTION A-A

INDIVIDUAL PILE
CONCRETE ENCASUREMENT
(when specified)



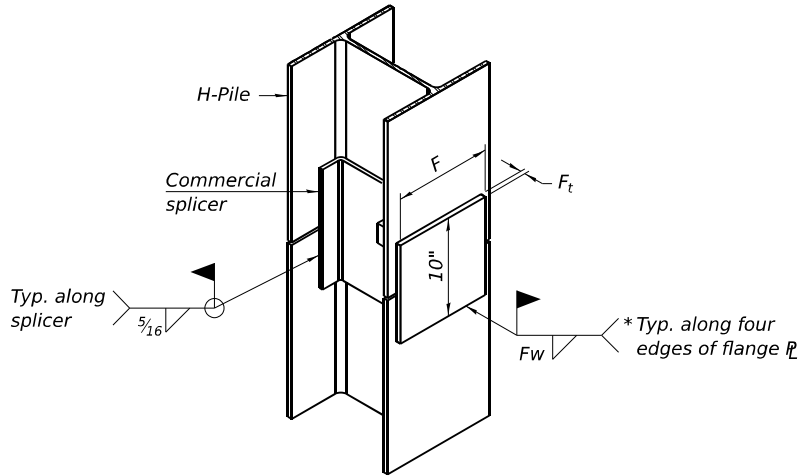
ELEVATION



DETAIL A

SHOE ATTACHMENT

Note:
The steel H-piles shall be according to
AASHTO M270 Grade 50.



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

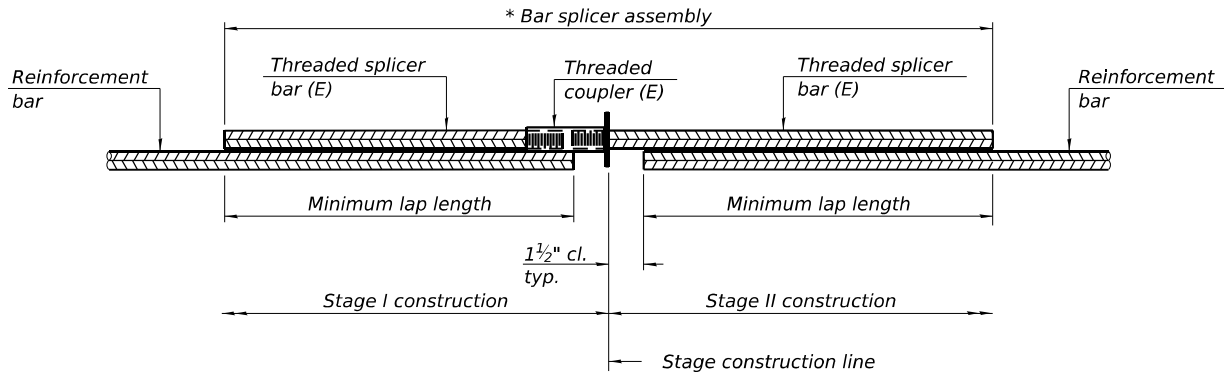
- * Interrupt welds ¹/₄" from end of web and/or each flange.
- ** Remove portions of backup flange's that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (⁵/₁₆" min.).

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 039-0084

SHEET 25 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	93
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



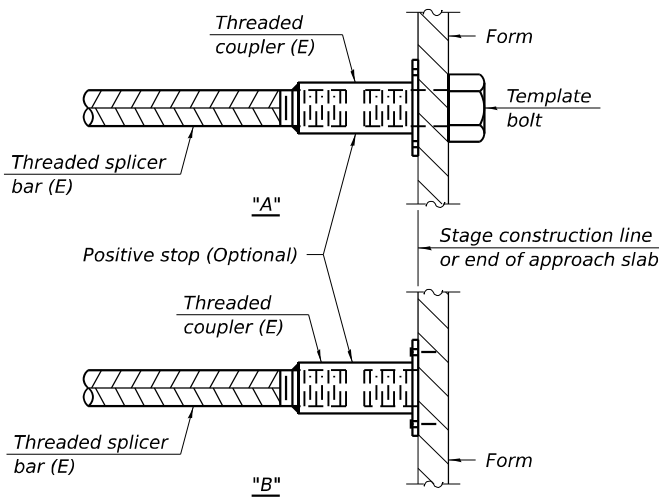
STANDARD BAR SPLICER ASSEMBLY PLAN

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
Deck Slab Top	#5	375	3'-1"
Deck Slab Bottom	#5	230	3'-6"
Diaphragm, Back Face	#6	8	4'-0"
Diaphragm, Front Face	#6	6	See Diaphragm Bar Splicer Detail
Approach Slabs, Top	#5	80	3'-4"
Approach Slabs, Bottom	#8	106	4'-9"
Approach Slab Footing	#5	80	3'-2"
Abutment Caps	#7	20	5'-0"
Pier Caps	#8	24	8'-2"
Pier Caps	#5	12	3'-7"

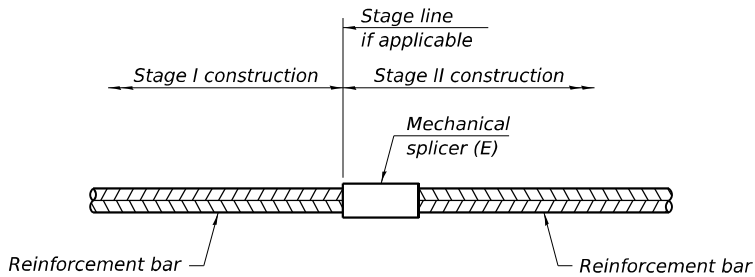


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

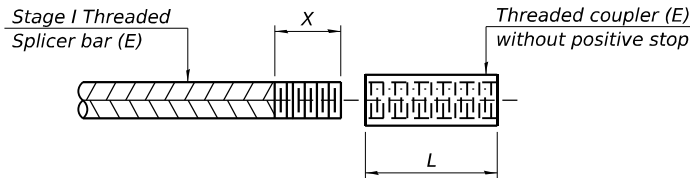
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



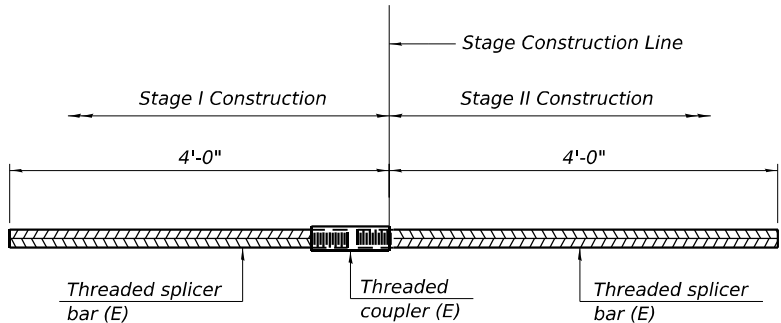
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier Crashwall 1	#5	126
Pier Crashwall 2	#5	126
Pier 1 Column	#8	40
Pier 2 Column	#8	40



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.



DIAPHRAGM BAR SPLICER DETAIL

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.

BSD-1

4-4-2025



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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME =	bpoller	DESIGNED -	TCS	REVISED -	
		CHECKED -	BWP	REVISED -	
PLOT SCALE =	0:2,000'"/ in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 039-0084

SHEET 26 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	94
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2024\240166B - US 51 over ICRR Bridge Replacement\4 CADD - DWG\4.4 Struct\0390084-78937-027-Soil Borings.dgn



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LICENSE NO:
184-001220

USER NAME =	bpoller	DESIGNED -	TCS	REVISED -	
		CHECKED -	BWP	REVISED -	
PLOT SCALE =	0:2,000'":' / in.	DRAWN -	TCS	REVISED -	
PLOT DATE =	8/21/2025	CHECKED -	BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 039-0084

SHEET 27 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	95
CONTRACT NO. 78937				
ILLINOIS		FED. AID PROJECT		



Illinois Department
of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 5/3/21

ROUTE US 51 DESCRIPTION US 51 over ICRR LOGGED BY L. Estel
SECTION 3VB-2 (Ex.) LOCATION 3 mi. N of Desoto (near Ex. Pier #1), SEC. 5, TWP. 8S, RNG. 1W, PM
COUNTY Jackson DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lb (HE = 86.5%)

STRUCT. NO. 039-0052
Station 430+42.72

BORING NO. 1-S
Station 429+98
Offset 30.0ft Rt
Ground Surface Elev. 415.5 ft

DEPT H
BLOWS
UCS
MOIST
Qu
T

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

Track Ballast Aggregate

Bottom of hole @ 25.5 ft

No free water encountered

To Convert "N" values to "N60", multiply by 1.44; Hammer

Efficiency = 86.5%

Ground surface elevation referenced to BM 039-0052, Cut
Square on NW Hub Guard SN 039-0052; EL. 441.75

411.00
Stiff Brown and mottled dark
Brown, Moist SILTY CLAY

1
2
4
B

1.2
21
B

408.50
V. Stiff Brown, Moist SILTY CLAY

2
4
6
B

3.1
23
B

406.00
M. Stiff Brown, Moist SILTY CLAY

1
3
4
B

0.8
22
B

403.50
Stiff Brown, Moist CLAY with
rounded Pebbles

2
5
8
B

1.8
17
B

401.00
Hard Brown, Dry SANDSTONE

100/4"

13

Borehole continued with rock
coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
District 9

ROCK CORE LOG

Page 1 of 1

Date 5/3/21

ROUTE US 51 DESCRIPTION US 51 over ICRR LOGGED BY L. Estel
SECTION 3VB-2 (Ex.) LOCATION 3 mi. N of Desoto (near Ex. Pier #1), SEC. 5, TWP. 8S, RNG. 1W, PM
COUNTY Jackson CORING METHOD Conventional rotary with polymer modified water

STRUCT. NO. 039-0052
Station 430+42.72

BORING NO. 1-S
Station 429+98
Offset 30.0ft Rt
Ground Surface Elev. 415.5 ft

CORING BARREL TYPE & SIZE NV3 5FT NWJ

Core Diameter 2 in
Top of Rock Elev. 401.00 ft
Begin Core Elev. 400.00 ft

DEPT H
CORE
Y

R
C
O
V
E
R
Y
Q
D
T
I
M
E
S
T
R
E
N
G
T
H

Hard Brown, Dry SANDSTONE (Field Hardness: Moderately Hard)

1 85 38 5

126.2
111.5
53.6

Hard Brown, Dry SANDSTONE (Field Hardness: Moderately Hard)

2 77 61 5

Hard Grey, Dry CLAY SHALE (Field Hardness: Low Hardness)

Hard Brown, Dry SANDSTONE (Field Hardness: Moderately Hard)

76
5.2

Bottom of hole @ 25.5 ft

Ground surface elevation referenced to BM 039-0052, Cut Square on NW Hub Guard
SN 039-0052; EL. 441.75

Color pictures of the cores Yes, attached

Cores will be stored for examination until 5 years after construction

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 138 (Rev. 8-99)

File Name S:\MATERIALS GEOTECHNICAL\UNIT\GINT\PROJECTS\PROJECTS\FILE\JACKSON\STRUCTURES\039-0052 US 51 OVER ICRR.3PJ Data Template D6TEMPLT.GDT Date Printed 1/13/22
Latitude 37.61 09.61 Longitude -89.13 53.12 Datum NAD83 Job Number

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Latitude 37 51 09.51 Longitude -89 13 53.12 Datum NAD83 Job Number

ROCK CORE 039-0152 US 51 OVER ICRR.GPJ D6TEMPLT.GDT 1/13/22

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Latitude 37 51 08.43 Longitude -89 13 55.07 Datum NAD83 Job Number

ROCK CORE 039-0152 US 51 OVER ICRR.GPJ D6TEMPLT.GDT 1/13/22



Illinois Department of Transportation

Division of Highways
Terrason

SOIL BORING LOG

Page 1 of 2

Date 1/9/25

ROUTE 51 DESCRIPTION Structure over ICRR LOGGED BY KEG
SECTION 3VB-3 LOCATION 3 mi N of Desoto, Lat. 37.8524 Long. -89.2315, SEC. 5, TWP. 8S, RNG. 1W

COUNTY Jackson DRILLING METHOD SSA + NQ2 Rock Coring @ 36ft HAMMER TYPE

STRUCT. NO. 039-0052
Station 430+42.72

BORING NO. B-5S
Station 430+76
Offset 51.0 ft RT
Ground Surface Elev. 423.90

DEPTH
B
L
O
W
S
H
S
U
C
S
M
O
I
S
T
Qu
T
S
F
%

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH
B
L
O
W
S
H
S
U
C
S
M
O
I
S
T
Qu
T
S
F
%

TOPSOIL, approximately 3 inches -423.65
Brown SILTY CLAY trace sand

Brown SILTY CLAY trace sand
(continued)

-5

398.90 -25

Brown SILTY CLAY with gravel

-10

-30

-15

-35

387.00

Gray, SHALE (Field Hardness:
Medium Hardness)
Borehole continued with rock
coring
Bottom of hole @ 36 feet
No free water encountered
Elevation referenced to BM
039-0052, E.L. 441.75

-40

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation

Division of Highways
District 3

ROCK CORE LOG

Page 2 of 2

Date 1/9/25

ROUTE US 51 DESCRIPTION Structure over ICRR LOGGED BY KEG

SECTION 3VB-3 LOCATION 3 mi N of Desoto, Lat. 37.8524 Long. -89.2315, SEC. 5, TWP. 8S, RNG. 1W, PM

COUNTY Jackson CORING METHOD NQ2 Rock Coring

STRUCT. NO. 039-0052

Station 430+42.72

CORING BARREL TYPE & SIZE

Core Diameter 2 in

Top of Rock Elev. 387.90 ft

Begin Core Elev. 387.90 ft

BORING NO. B-5S

Station 430+76

Offset 51.0ft RT

Ground Surface Elev. 423.9 ft

DEPTH (ft)	CORRECTION (#)	RECOVERED (%)	RATIO (%)	CORE TIME (min/ft)	STRENGTH (tsf)
---------------	-------------------	------------------	--------------	--------------------------	-------------------

Gray, SHALE (Field Hardness: Medium Hardness)

R-1	39	28			
-----	----	----	--	--	--

R-2	96	63			
-----	----	----	--	--	--

R-3	100	83			
-----	-----	----	--	--	--

377.90

Gray, LIMESTONE (Field Hardness: Hard)

R-4	100	50			
-----	-----	----	--	--	--

R-5	98	95			935
-----	----	----	--	--	-----

Bottom of hole @ 36 feet

Elevation referenced to BM 039-0052, EL. 441.75

End of Boring

367.90

Color pictures of the cores Yes

Cores will be stored for examination until 5 years

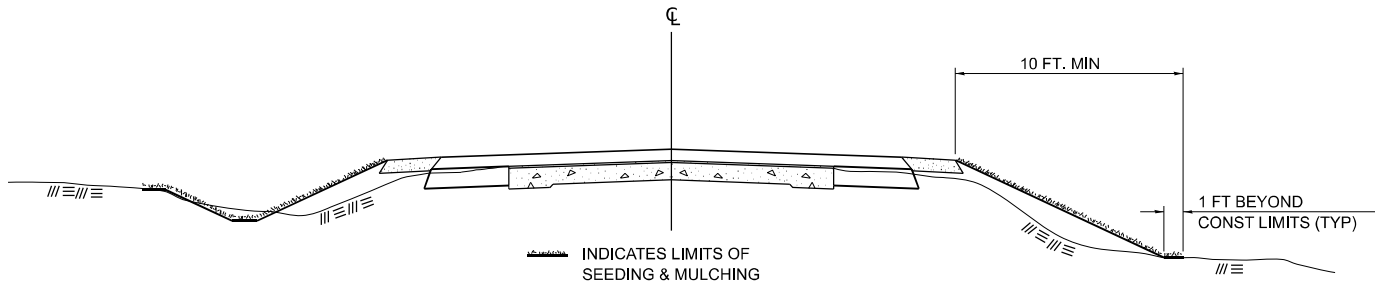
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BSS, form 138 (Rev. 8-99)

ROCK CORE 5246041 USB1 OVER CHRR - ROCK CORE.GPJ D:\TEMP\T.GBT 4/21/25

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.

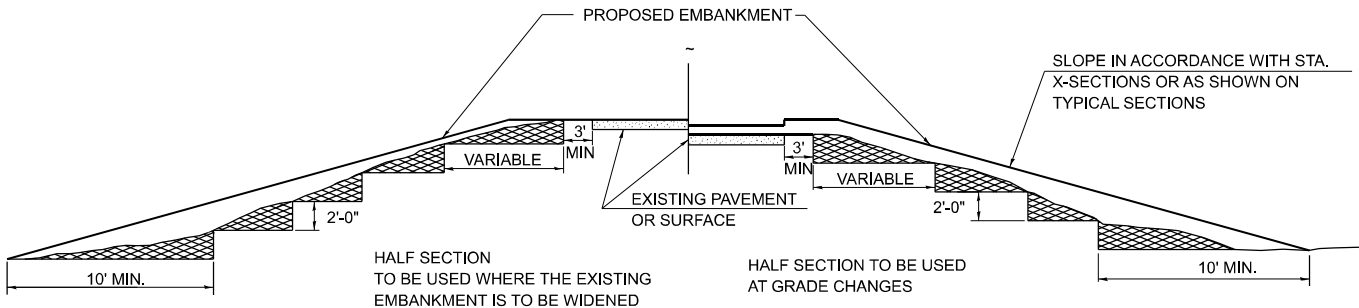
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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

MODEL: Default
FILE NAME: P:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tran\CAD_Sheets\0978937-5-hc-dt-District_Details.dgn



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LICENSE NO:
184-001220

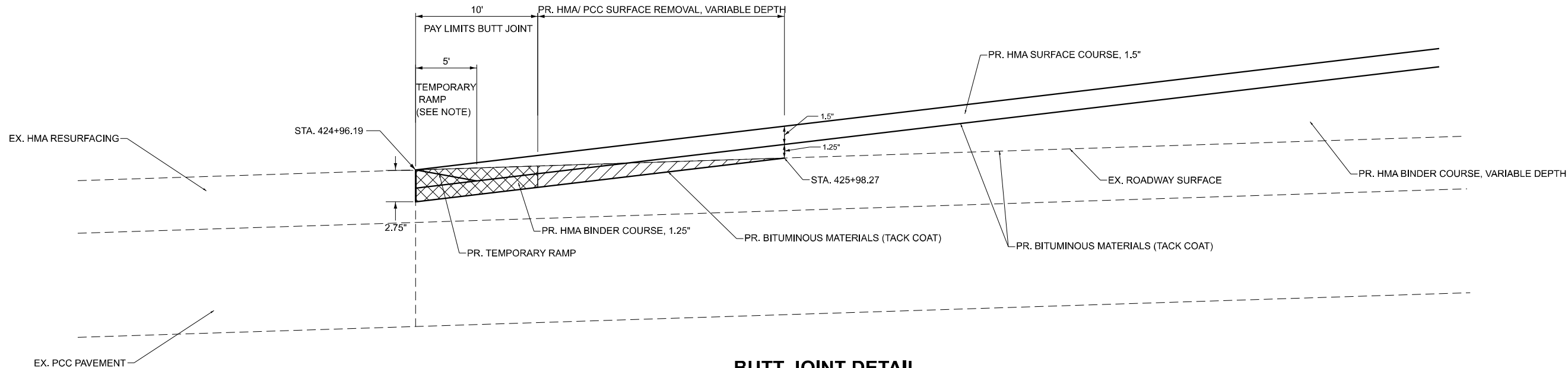
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	DRAWN - BAB	REVISED -
PLOT SCALE = 50,000 ' / in.	CHECKED - SJK	REVISED -
PLOT DATE = 8/21/2025	DATE - 5/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 9 DETAILS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	100
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



BUTT JOINT DETAIL

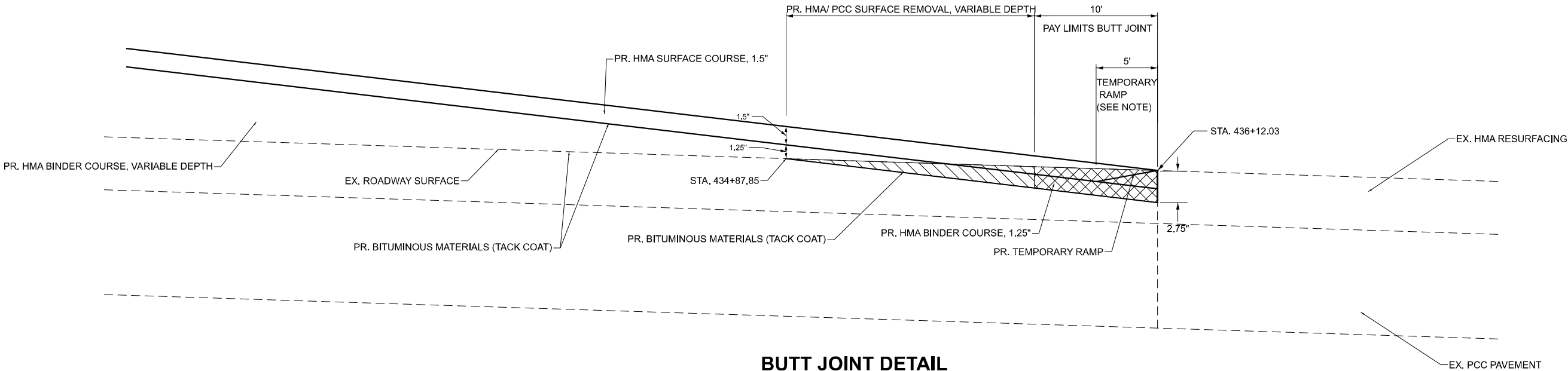
(NOT TO SCALE)
STA. 424+96.19

LEGEND

- PR. HMA SURFACE REMOVAL, VARIABLE DEPTH
- PR. HAM SURFACE REMOVAL - BUTT JOINT

NOTES

- TEMPORARY RAMP TO BE CONSTRUCTED AFTER STAGE 1 AND STAGE 2.



BUTT JOINT DETAIL

(NOT TO SCALE)
STA. 436+12.03

MODEL: Default
FILE NAME: C:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CAD - DWG\4.7 Tran\CAD Sheets\0978937-5-hd-hButt Joint Detail.dgn



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LICENSE NO:
184-001220

USER NAME =	bbillhartz	DESIGNED -	TBP	REVISED -	
		DRAWN -	BAB	REVISED -	
PLOT SCALE =	5,000 ' / in.	CHECKED -	SJK	REVISED -	
PLOT DATE =	8/21/2025	DATE -	5/2025	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT DETAILS
US 51**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	101
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

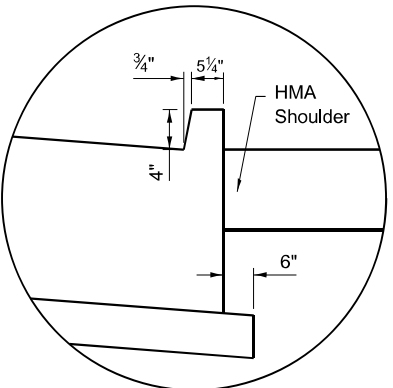
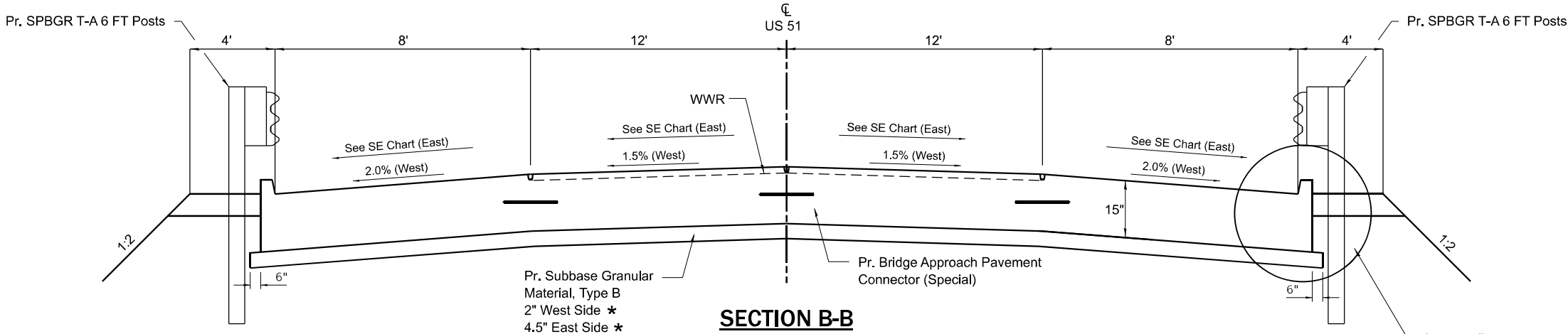
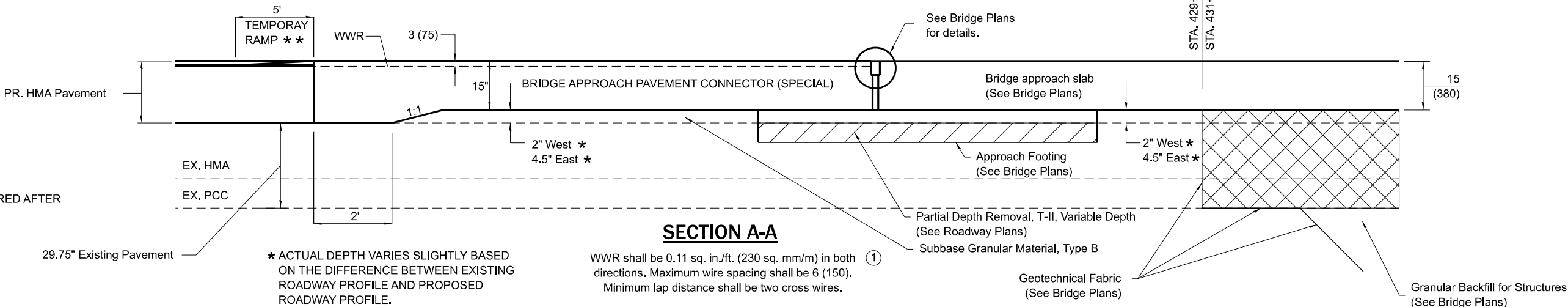
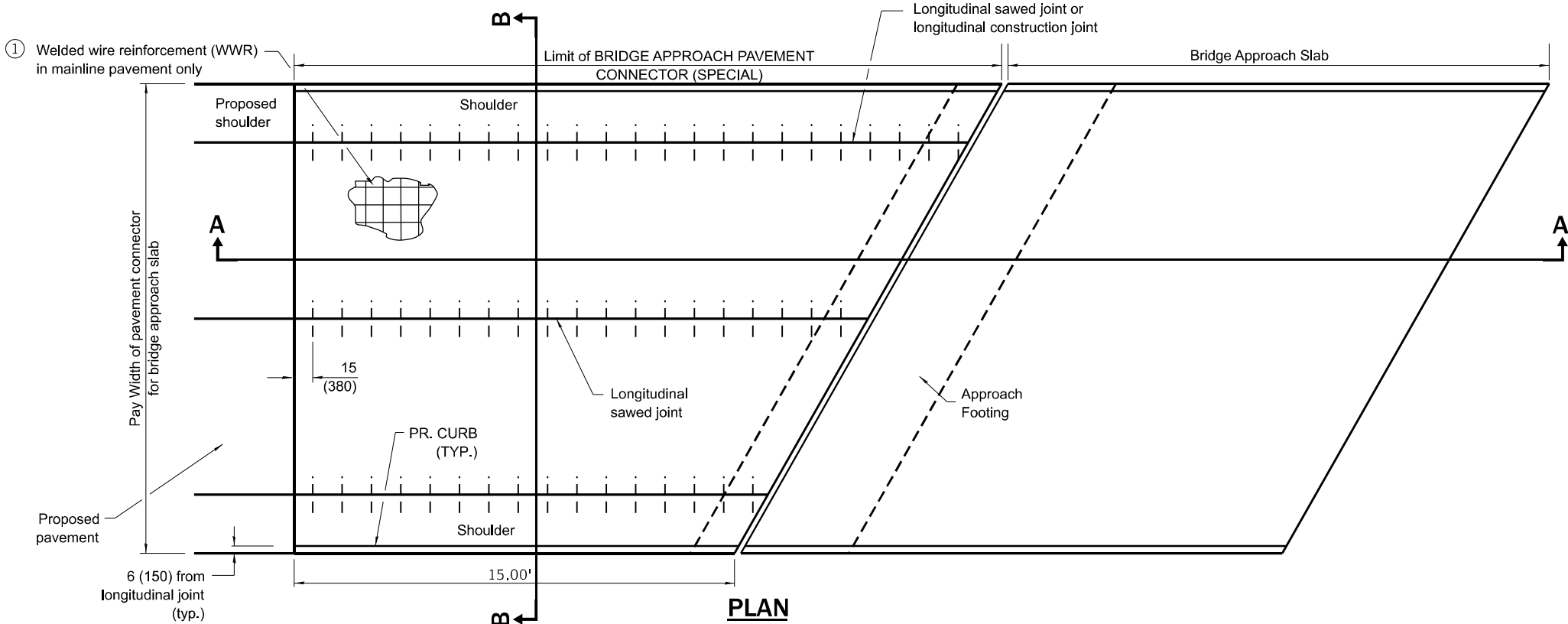
See Standard 420001 for pavement joint details not shown.

See plans for details of bridge approach slab, approach footing and joint treatment.

All dimensions are in inches (millimeters) unless otherwise shown.

SUPERELEVATION CHART

STA. 431+44.04 BEGIN TANGENT RUNOUT	1.5% 1.5%
STA. 431+84.00 END TANGENT RUNOUT	1.5% 0%
STA. 433+16.94 BEGIN FULL S.E.	5% 5%
HORIZONTAL CURVE PI STA. 450+09.28	



DETAIL A

(Typical Both Sides)

MODEL: Default
FILE NAME: I:\2022\220197A - US 51 over ICRB Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tran\CAD Sheets\078937-51-cr-hd-bridge Approach Pavement Connector Special.dgn



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DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SJK
DATE -	5/2025
PLOT SCALE =	40,000 ' / in.
PLOT DATE =	8/21/2025

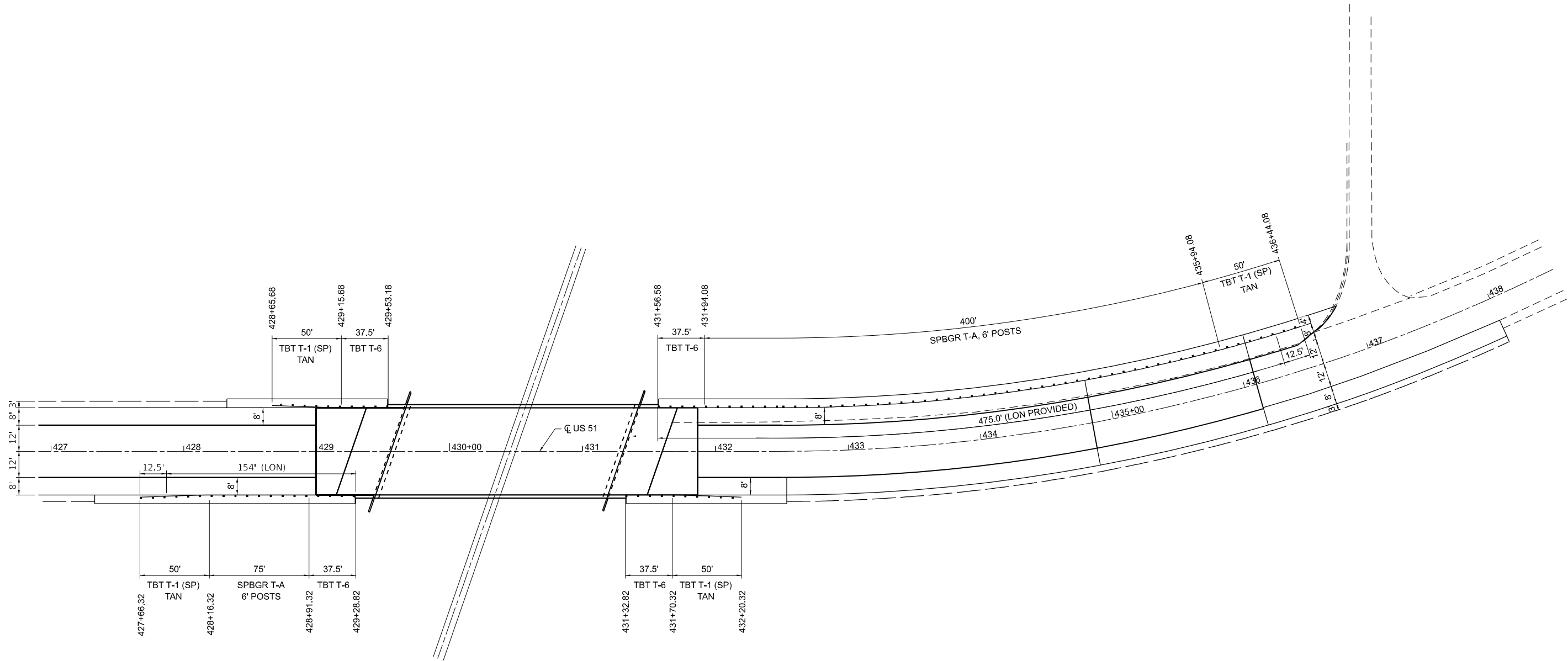
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL) US 51			
SCALE: N.T.S.	SHEET 1	OF 1	SHEETS
STA.		TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	102
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2022\220197A - US 51 over CN IC RR Bridge Replacement (Phase II)\4 CADD - DWG\4.7 Tran\CAD_Sheets\0978937-sheet4-H-Guardrail_LON.dgn



GUARDRAIL LENGTH OF NEED (LON) DETAILS
US 51 OVER CN IC RR



N.T.S.



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LICENSE NO:
184-001220

USER NAME = bbillhartz
PLOT SCALE = 50,000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL LENGTH OF NEED
US 51

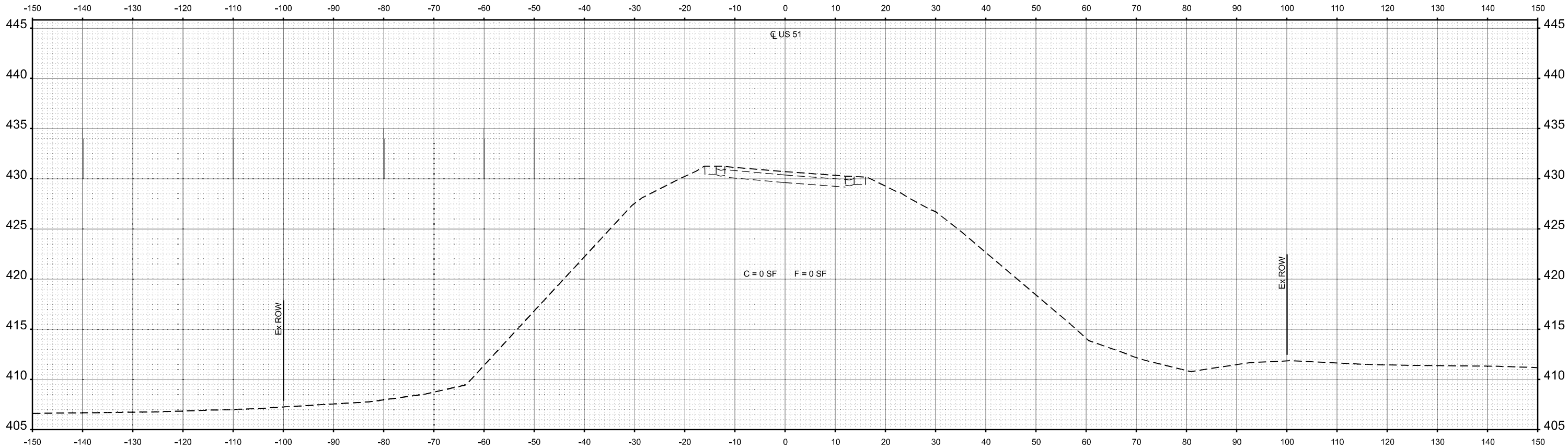
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	103
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

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LICENSE NO:
184-001220

USER NAME	= bbillhartz
DESIGNED	- TBP
DRAWN	- BAB
CHECKED	- SJK
DATE	- 5/2025
PLOT SCALE	= 19.99996000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED	- TBP
DRAWN	- BAB
CHECKED	- SJK
DATE	- 5/2025
REVIS	-
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REVIS	-
REVIS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

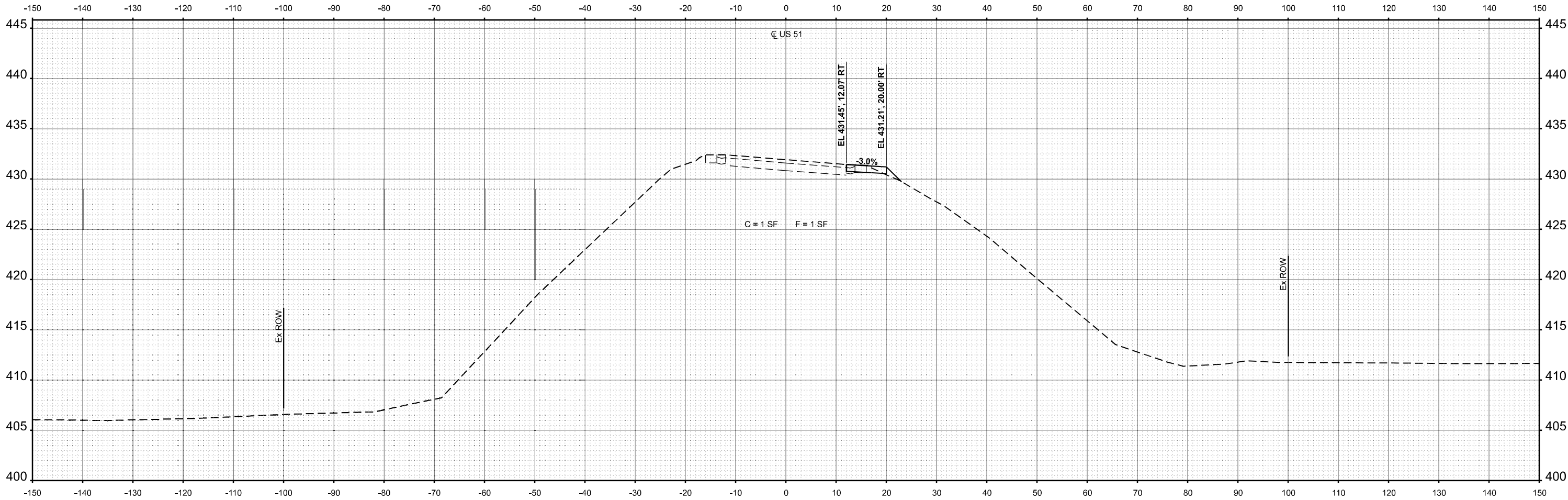
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	104
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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STA 423+50.00



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LICENSE NO:
184-001220

USER NAME	= bbillhartz
DESIGNED	- TBP
DRAWN	- BAB
CHECKED	- SJK
DATE	- 5/2025
PLOT SCALE	= 19.99996000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED	- TBP
DRAWN	- BAB
CHECKED	- SJK
DATE	- 5/2025
REVIS	-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

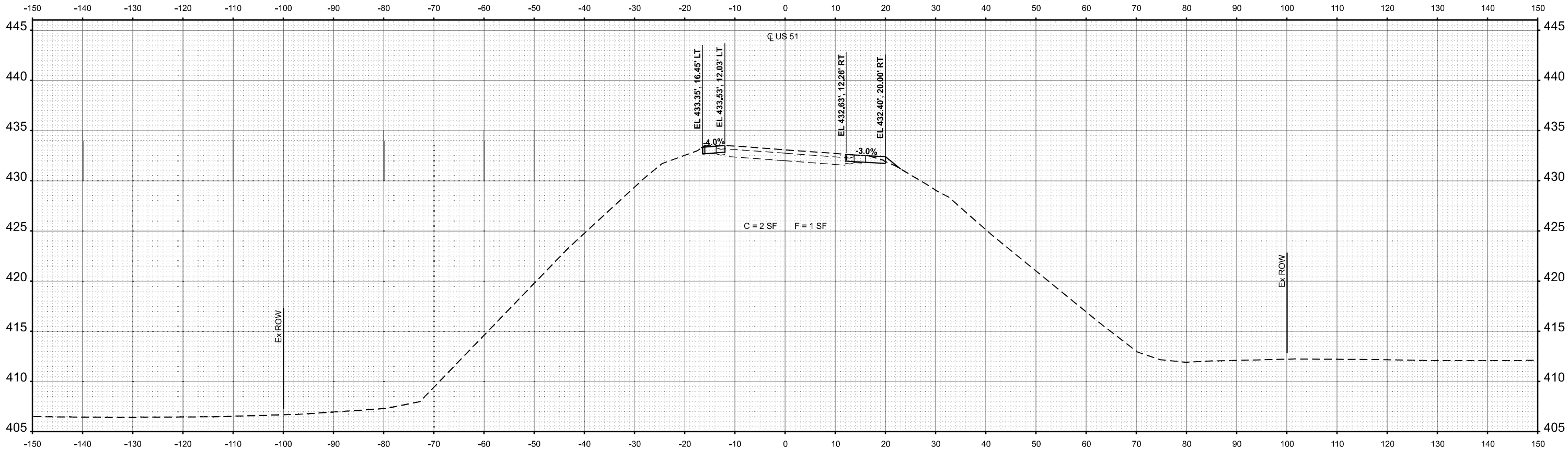
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	105
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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STA 424+00.00



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LICENSE NO:
184-001220

USER NAME	= bbillhartz	DESIGNED	-	TBP	REVISED	-
DRAWN	-	BAR	REVISED	-		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

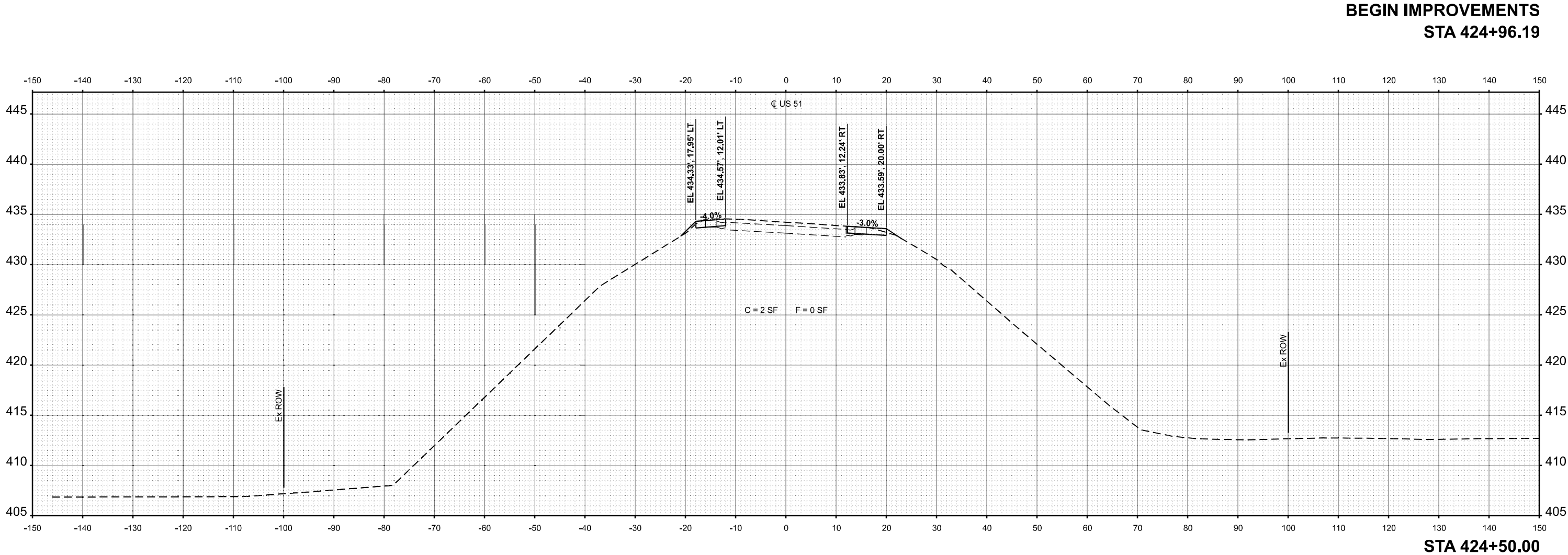
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	106
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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LICENSE NO:
184-001220

USER NAME	= bbillhartz
DESIGNED	- TBP
DRAWN	- BAR
CHECKED	- SJK
DATE	- 5/2025

REVISD	-
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REVISD	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
US 51**

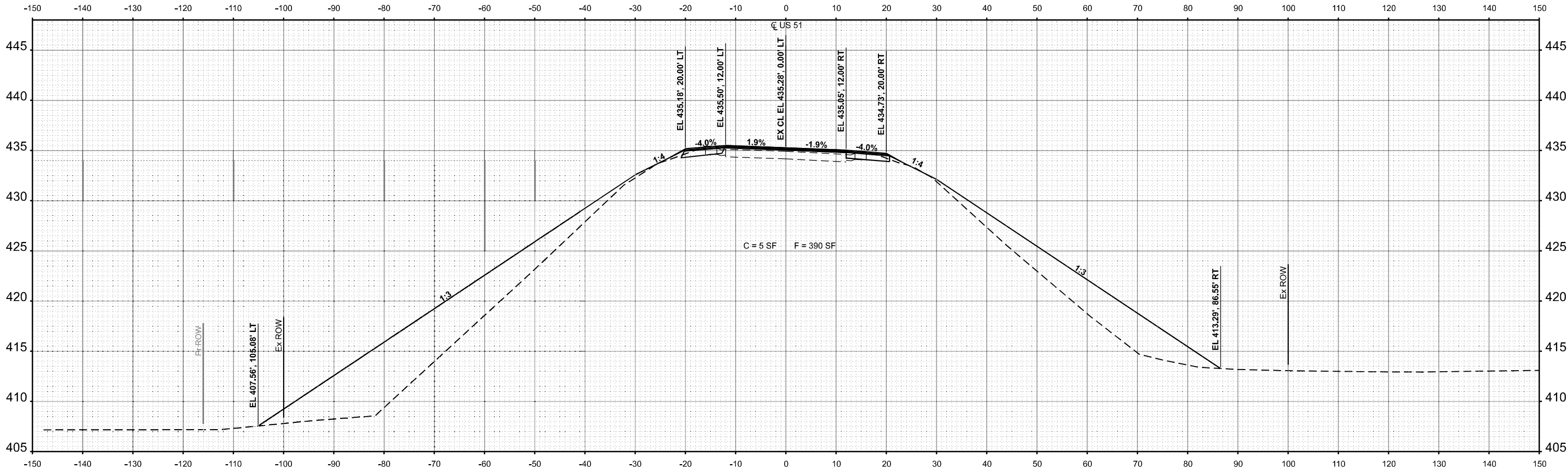
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	107
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

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STA 425+00.00



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LICENSE NO:
184-001220

USER NAME = bbillhartz
PLOT SCALE = 19.99996000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
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REVISED -
REVISED -

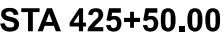
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

SCALE: 1"=10' SHEET 5 OF 21 SHEETS STA. 425+00.00 TO STA. 425+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	108
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		



DESIGNED	-	TBP
DRAWN	-	BAB
CHECKED	-	SJK
DATE	-	5/2025

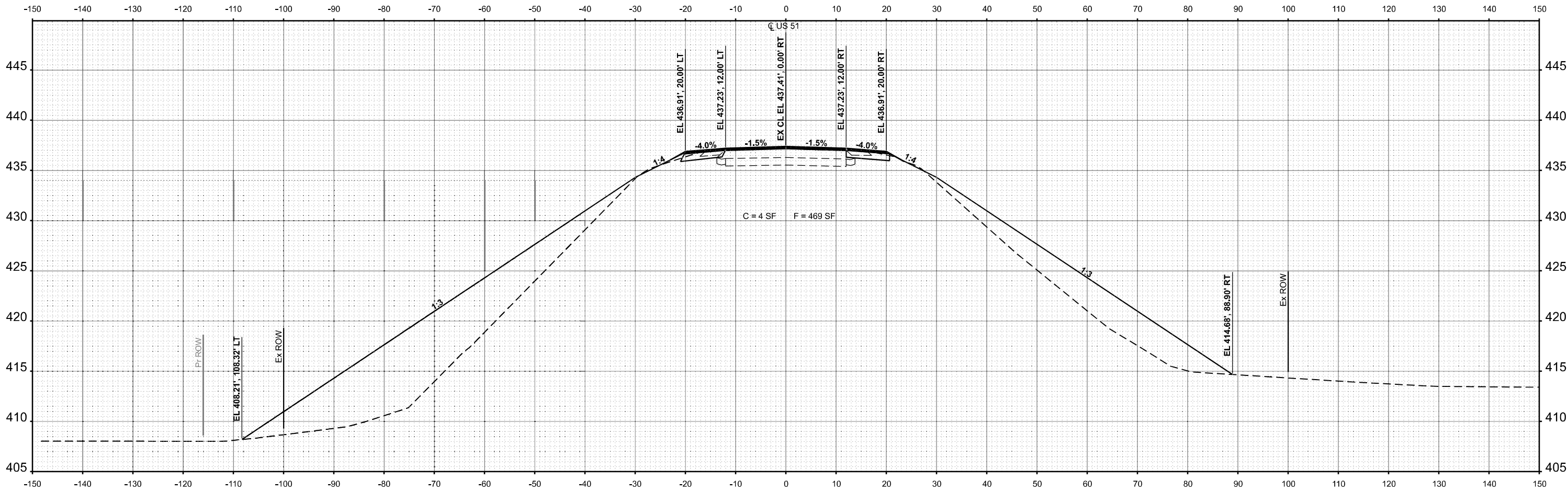
CROSS SECTIONS
US 51

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	109
		CONTRACT NO. 78937		
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
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ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
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STA 426+00.00



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LICENSE NO:
184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 19.99996000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED -	TBP
DRAWN -	BAB
CHECKED -	SIK
DATE -	5/2025

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

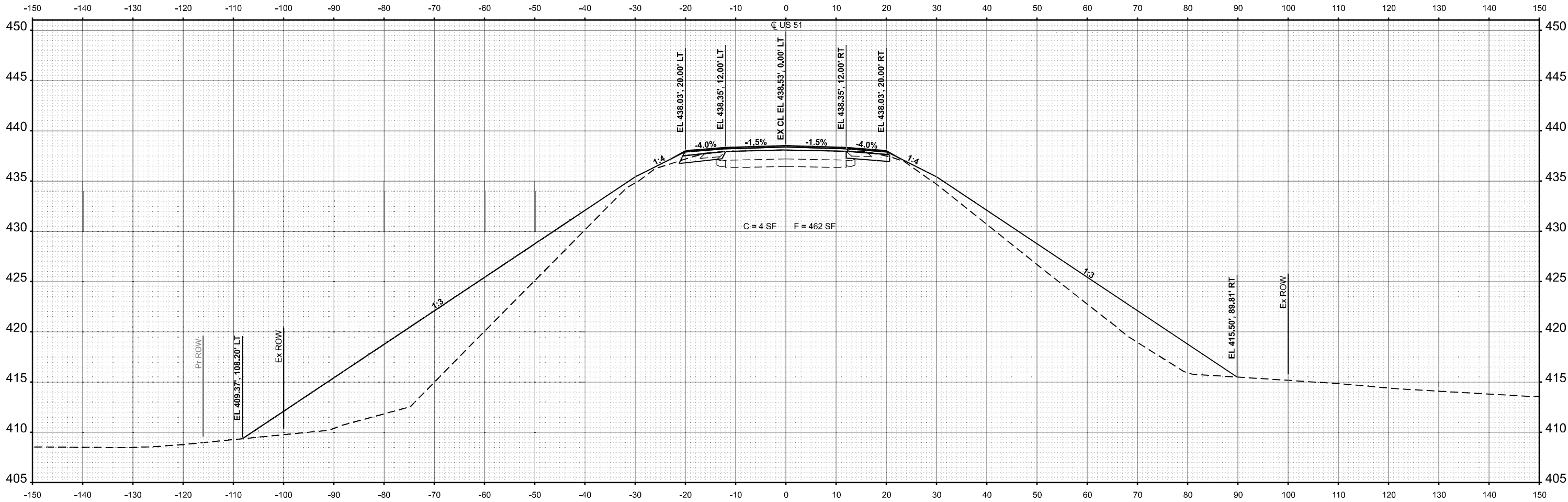
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	110
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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STA 426+50.00



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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME	= bbillhartz	DESIGNED	-	TBP	REVISED	-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

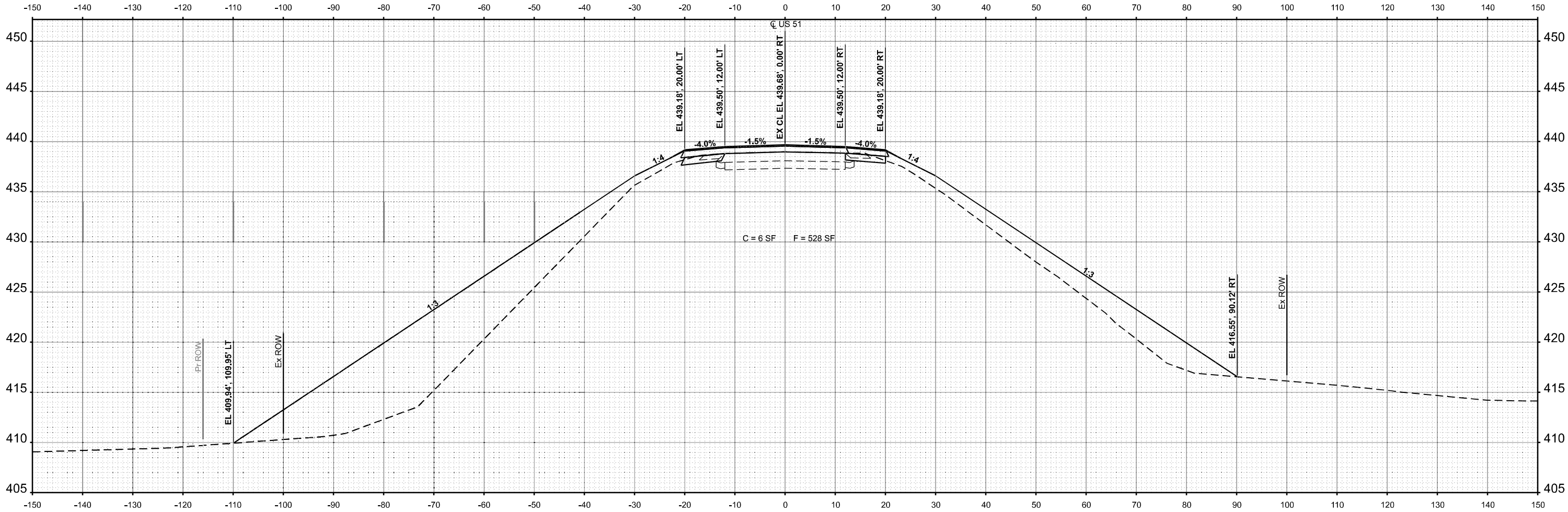
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	111
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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STA 427+00.00



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LICENSE NO:
184-001220

USER NAME	= bbillhartz
DESIGNED	- TBP
DRAWN	- BAR
CHECKED	- SJK
DATE	- 5/2025
PLOT SCALE	= 19.99996000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED	- TBP
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DATE	- 5/2025
REVIS	-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

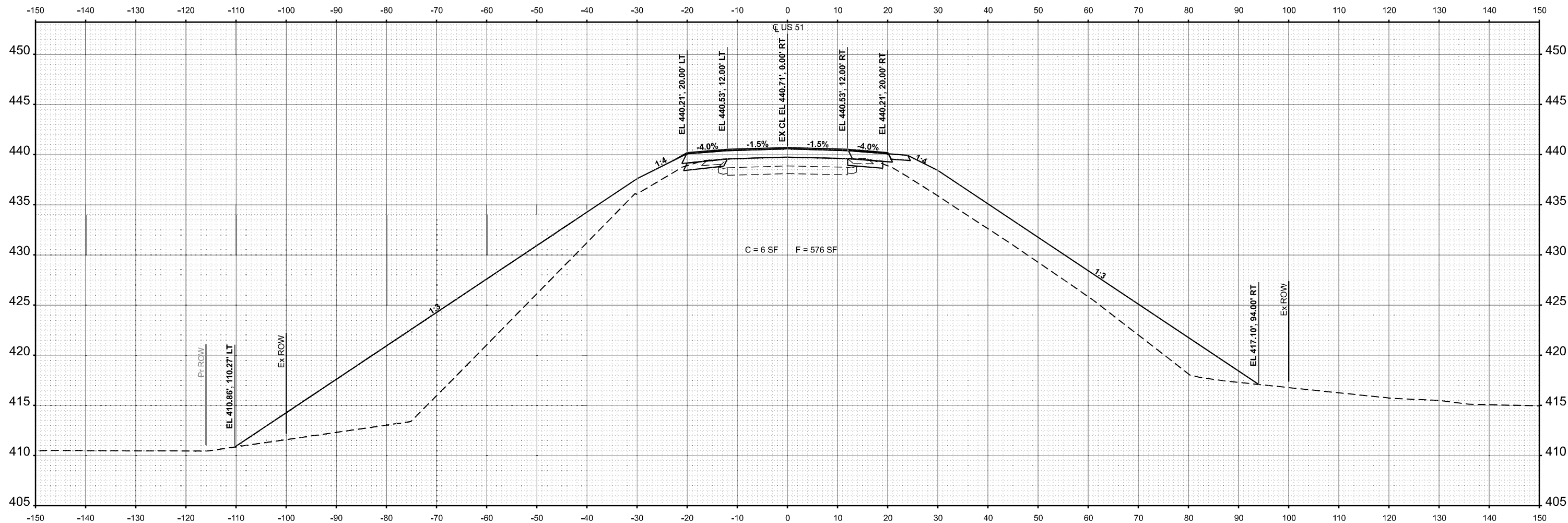
CROSS SECTIONS
US 51

SCALE: 1"=10' SHEET 9 OF 21 SHEETS STA. 427+00.00 TO STA. 427+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	112
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: Ex US\$1 - 427+50.00 R2



STA 427+50.00



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LICENSE NO:
184-001220

USER NAME = bbillhartz	DESIGNED - TBP
	DRAWN - BAB
PLOT SCALE = 19.99996000 ' / in.	CHECKED - SJK
PLOT DATE = 8/21/2025	DATE - 5/2025

DESIGNED	-	TBP
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CHECKED	-	SJK
DATE	-	5/2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

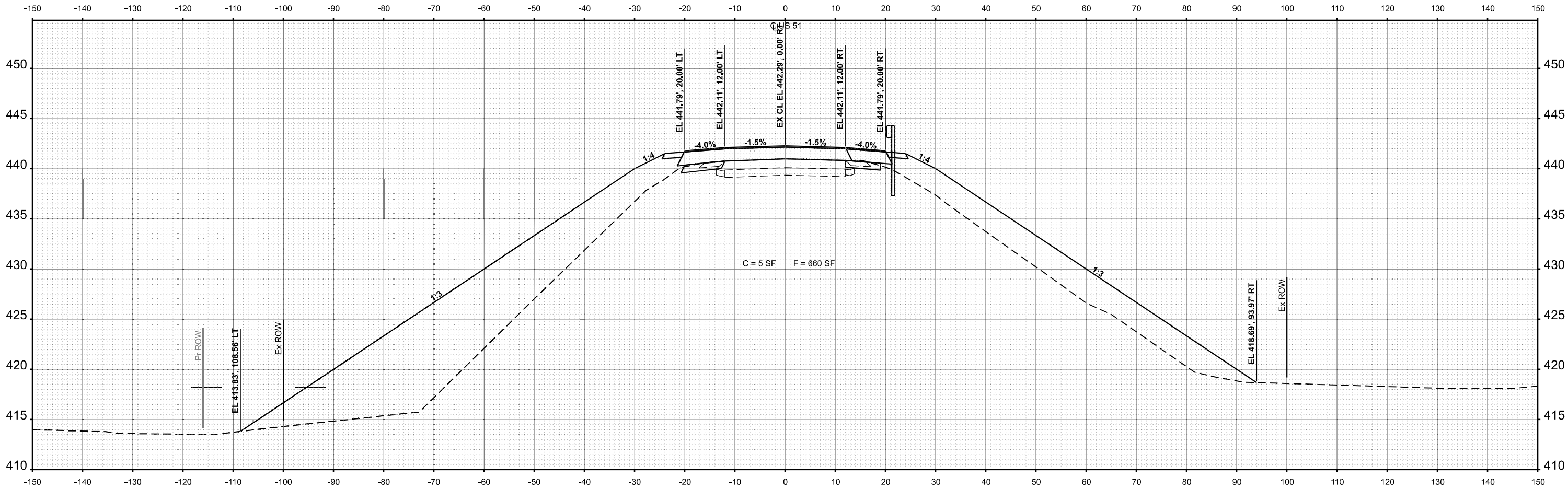
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	113
CONTRACT NO. 78937				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

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FILE NAME: P:\2022\20197A - US 51 over ICR Bridge Replacement Phase 1\4 CAD - DWG\4.7 Tran\CAD_Sheets\079937-shr-XSEC.dgn



STA 428+50.00



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LICENSE NO:
184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 19.99996000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED	-	TBP
DRAWN	-	BAR
CHECKED	-	SIK
DATE	-	5/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

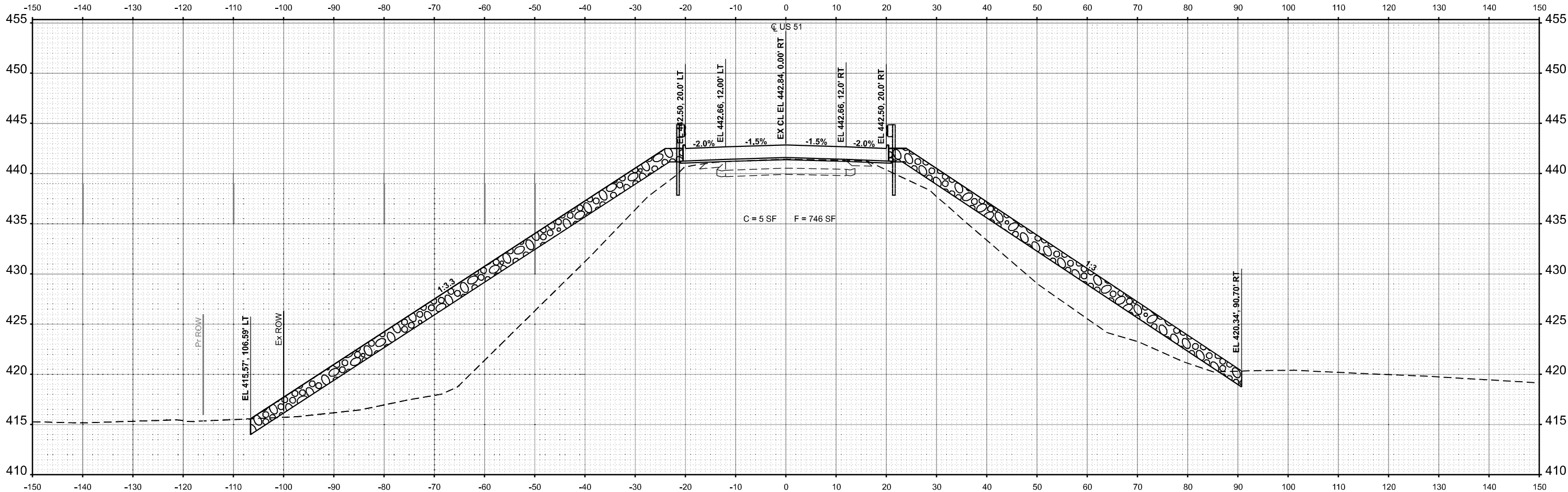
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	115
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK	BY	DATE

MODEL: EX_US51 - 429+00.00 R2
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STA 428+99.28
BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)



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LICENSE NO: 184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 19.999996000' / in.
PLOT DATE	= 8/21/2025

DESIGNED -	TBP
DRAWN -	BAR
CHECKED -	SIK
DATE -	5/2025

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

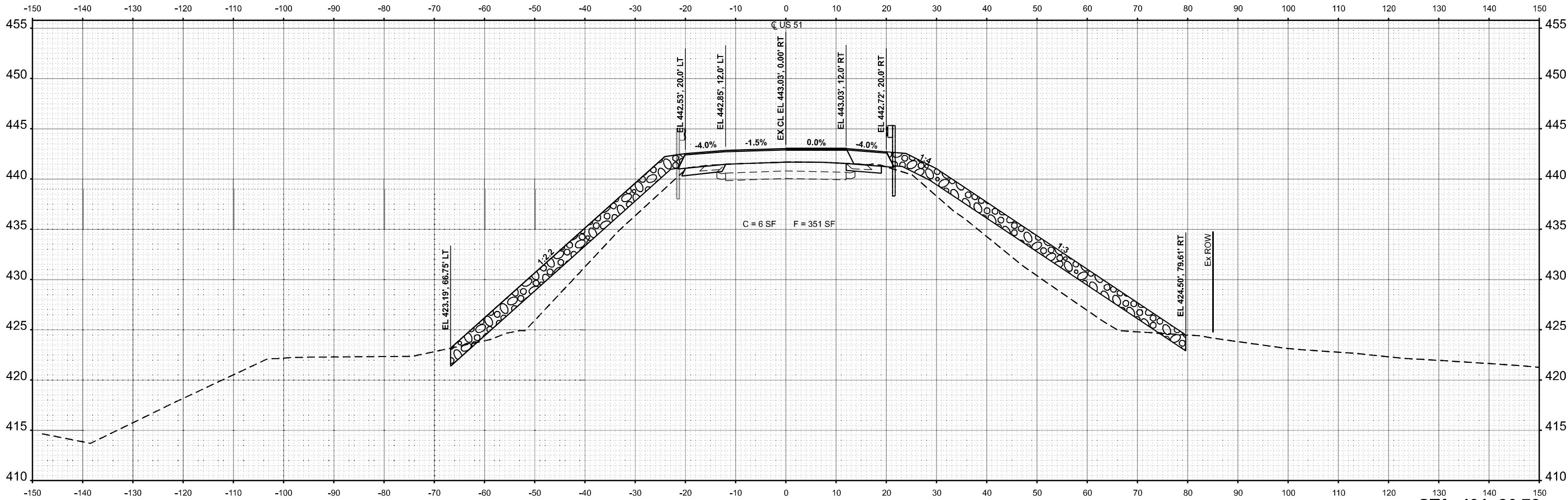
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	116
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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MODEL: EX_US51 - 431+30.00 R2
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STA. 431+86.72
BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

SCALE: SHEET 14 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	117
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				



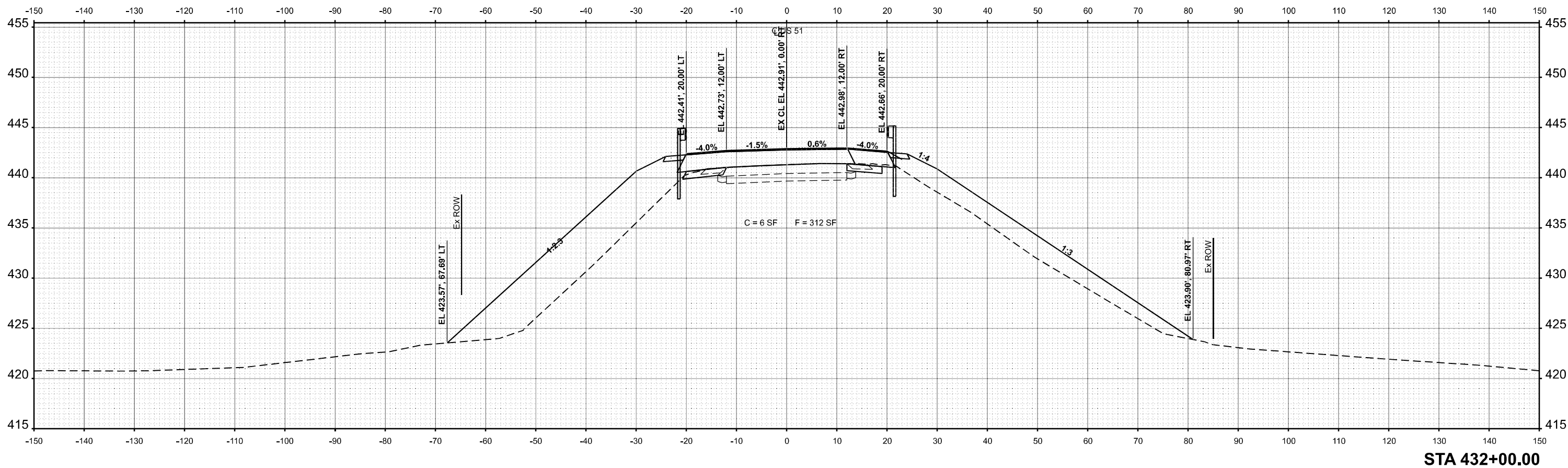
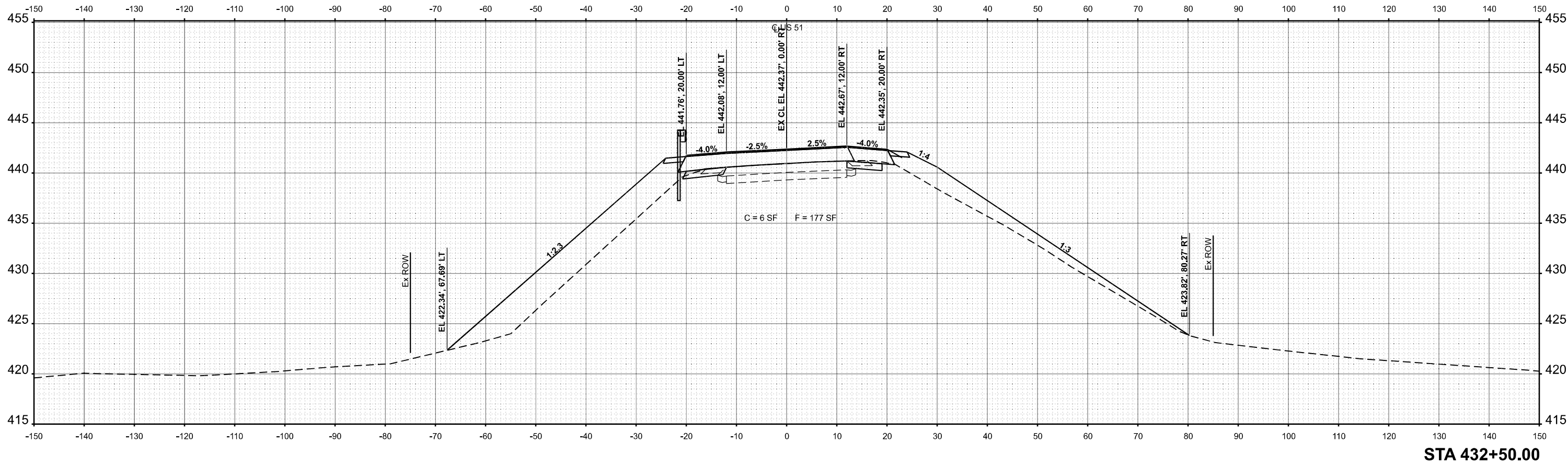
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = bbillhartz
DESIGNED - TBP
DRAWN - BAR
CHECKED - SJK
DATE - 5/2025
PLOT SCALE = 19.99996000' / in.
PLOT DATE = 8/21/2025

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REVISD -
REVISD -
REVISD -

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
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NOTE BOOK	TEMPLATE _____		
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NO. _____	AREAS CHECKED _____		

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TWM, INC.
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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = bbillhartz	DESIGNED - TBP
	DRAWN - BAB
PLOT SCALE = 19.99996000 ' / in.	CHECKED - SJK
PLOT DATE = 8/21/2025	DATE - 5/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

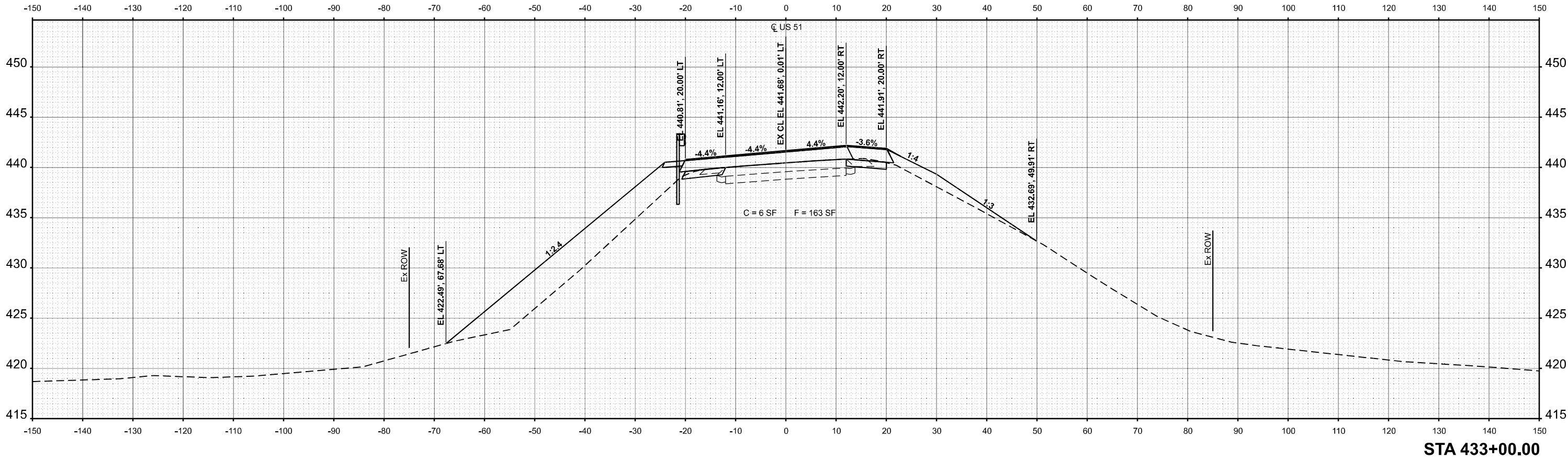
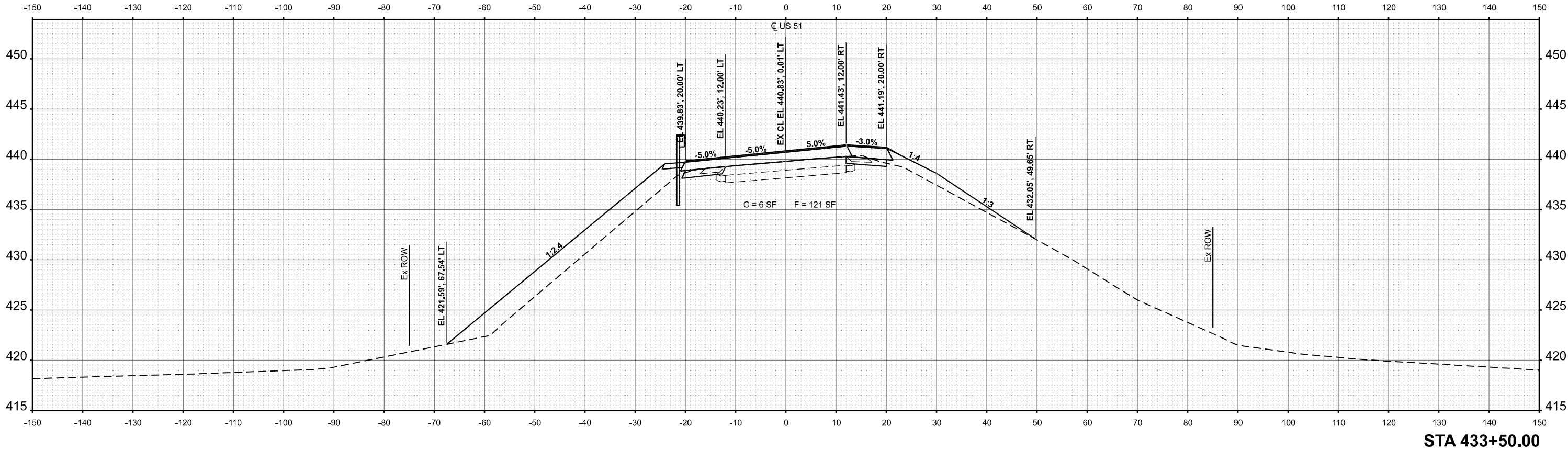
SCALE: 1"=10'	SHEET 15	OF 21	SHEETS	STA. 432+00.00	TO STA. 432+50.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	118
		CONTRACT NO. 78937		
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED PLOTTED AREAS	BY	DATE
NO.	NOTE BOOK	TEMPLATE	AREAS CHECKED

ORIGINAL SURVEY	SURVEYED PLOTTED AREAS	BY	DATE
NO.	NOTE BOOK	TEMPLATE	AREAS CHECKED

MODEL: EX_US51 - 433+00.00 R2
FILE NAME: P:\2022\20197A - US 51 over ICR Bridge Replacement Phase 1\4 CAD - DWG\4.7 Tran\CAD_Sheets\DW78937-51b-VSE.dgn



TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = bbillhartz
PLOT SCALE = 19.99996000' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

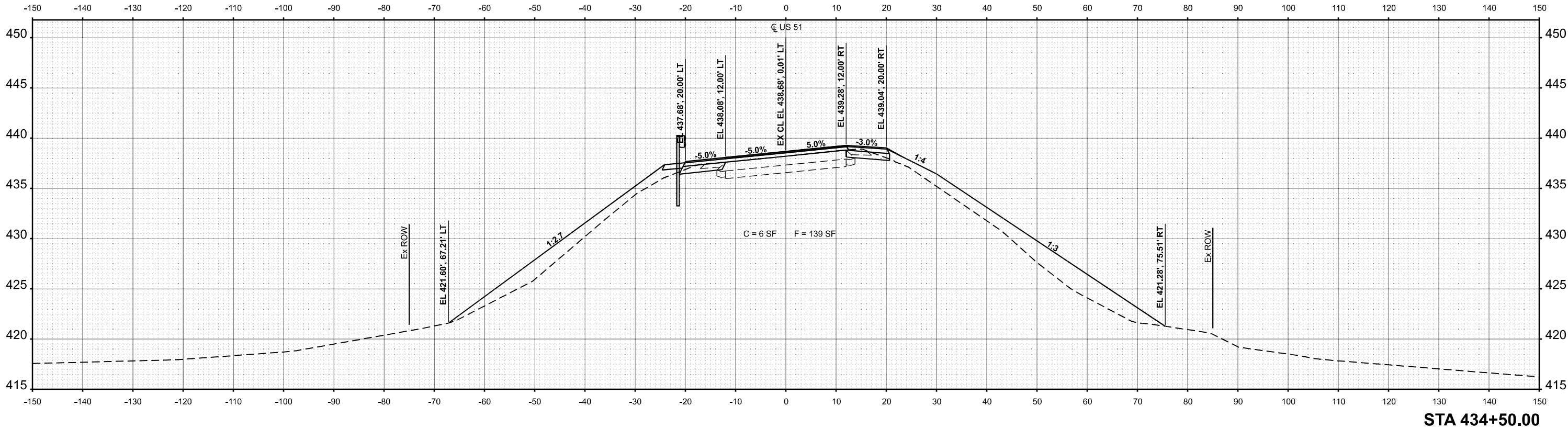
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

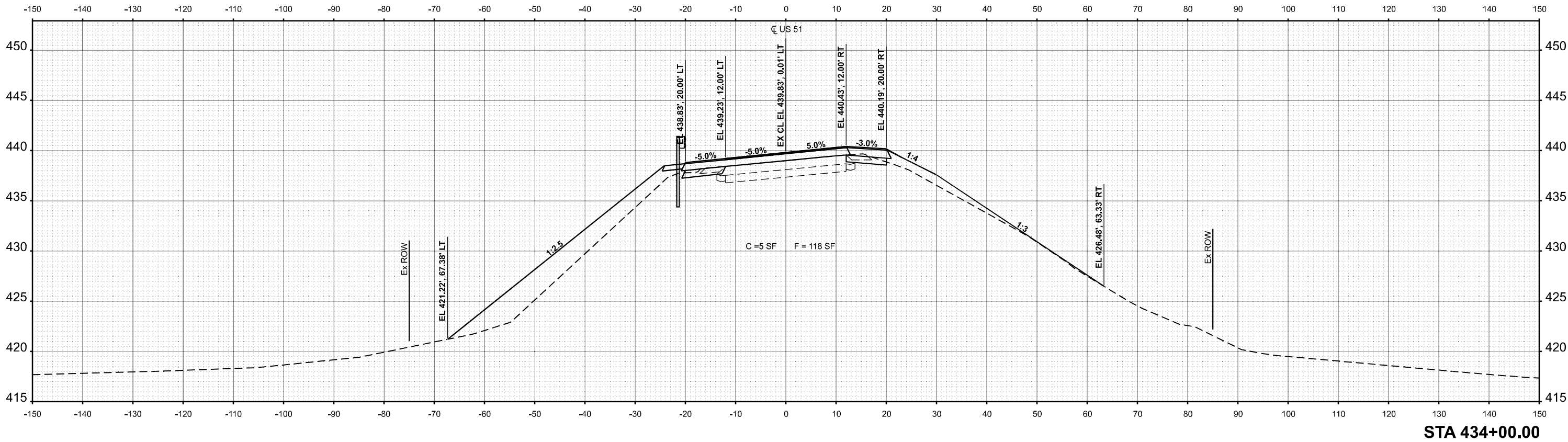
SCALE: 1"=10' SHEET 16 OF 21 SHEETS STA. 433+00.00 TO STA. 433+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	119
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED PLOTTED NOTE BOOK	BY	DATE
NO.	AREAS CHECKED	TEMPLATES	AREAS



ORIGINAL SURVEY	SURVEYED PLOTTED NOTE BOOK	BY	DATE
NO.	AREAS CHECKED	TEMPLATES	AREAS



MODEL: EX_US51 - 434+00.00 R2
FILE NAME: P:\2022\20191A - US 51 over ICR Bridge Replacement Phase 1\4 CADD - DWG\4.7 Tran\CAD_Sheets\DW78937-51b-XSEC.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 19.999996000 ' / in.
PLOT DATE	= 8/21/2025

DESIGNED	-	TBP
DRAWN	-	BAR
CHECKED	-	SIK
DATE	-	5/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

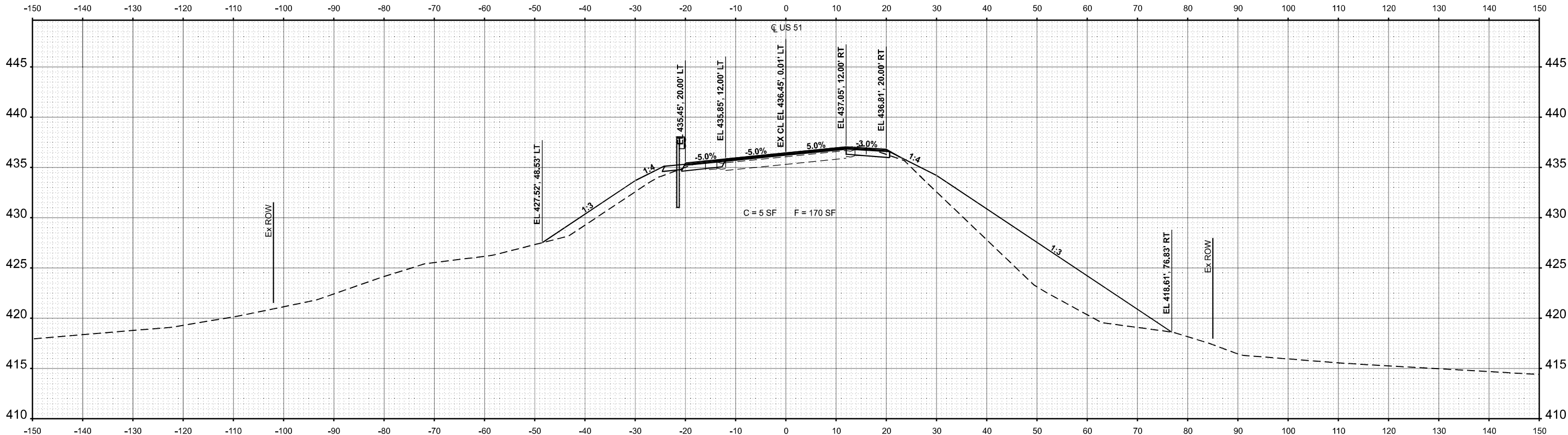
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

SCALE: 1"=10' SHEET 17 OF 21 SHEETS STA. 434+00.00 TO STA. 434+50.00

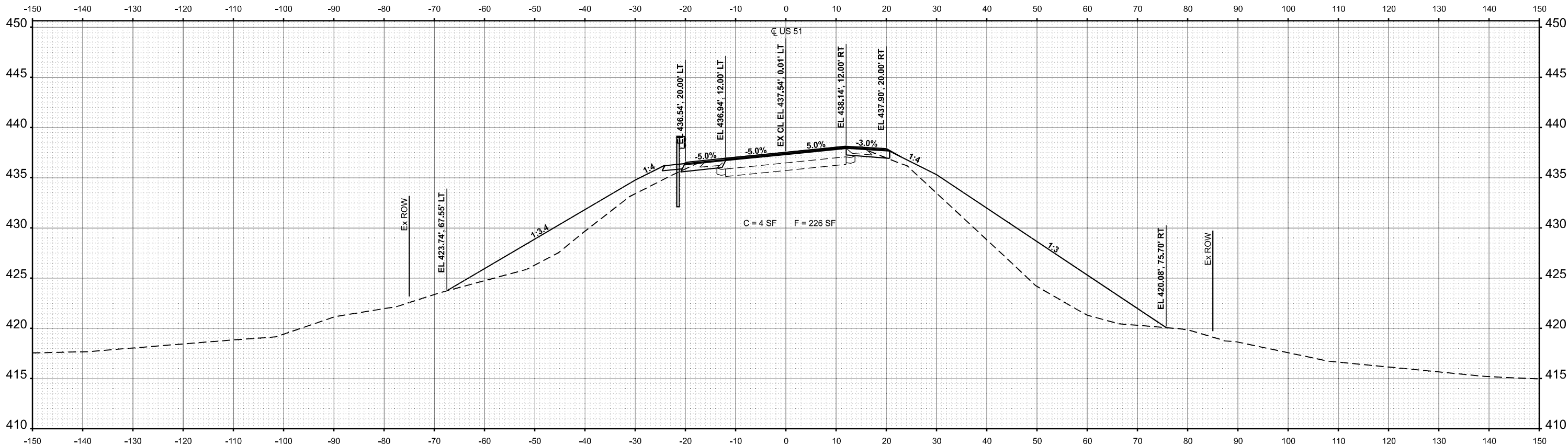
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	120
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED PLOTTED TEMPLATE	BY	DATE
NOTE BOOK NO.	AREAS CHECKED		



STA 435+50.00

ORIGINAL SURVEY	SURVEYED PLOTTED TEMPLATE	BY	DATE
NOTE BOOK NO.	AREAS CHECKED		



STA 435+00.00

MODEL: EX_US51 - 435+00.00 R2
FILE NAME: P:\2022\20191A - US 51 over ICR Bridge Replacement Phase 1\4 CADD - DWG\4.7 Tran\CAD_Sheets\DW78937-51b-VSE.dgn



TWM, INC.
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IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = bbillhartz
PLOT SCALE = 19.99996000' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

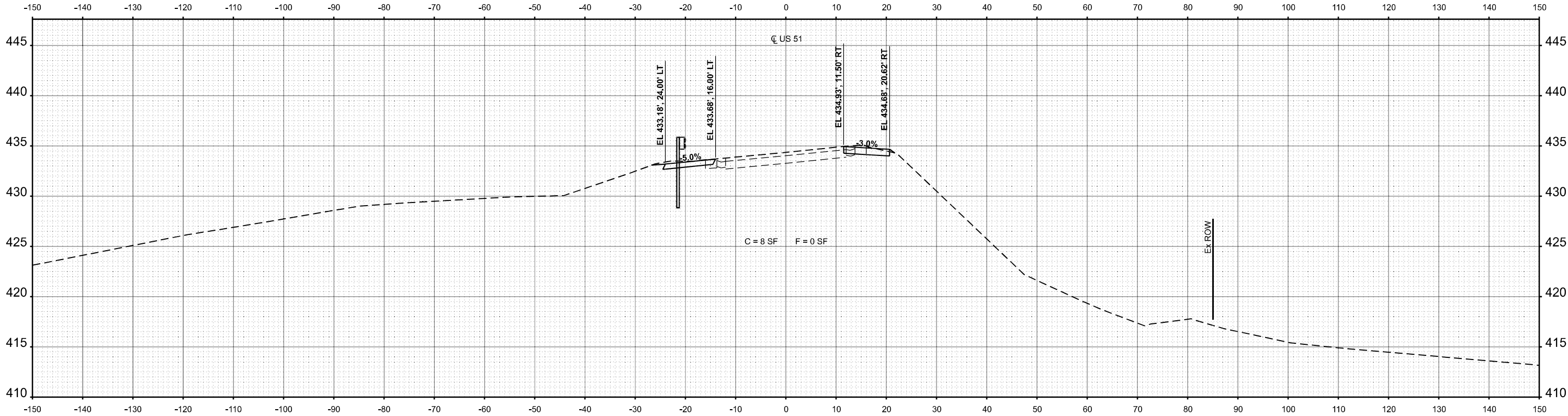
SCALE: 1"=10' SHEET 18 OF 21 SHEETS STA. 435+00.00 TO STA. 435+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	121
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

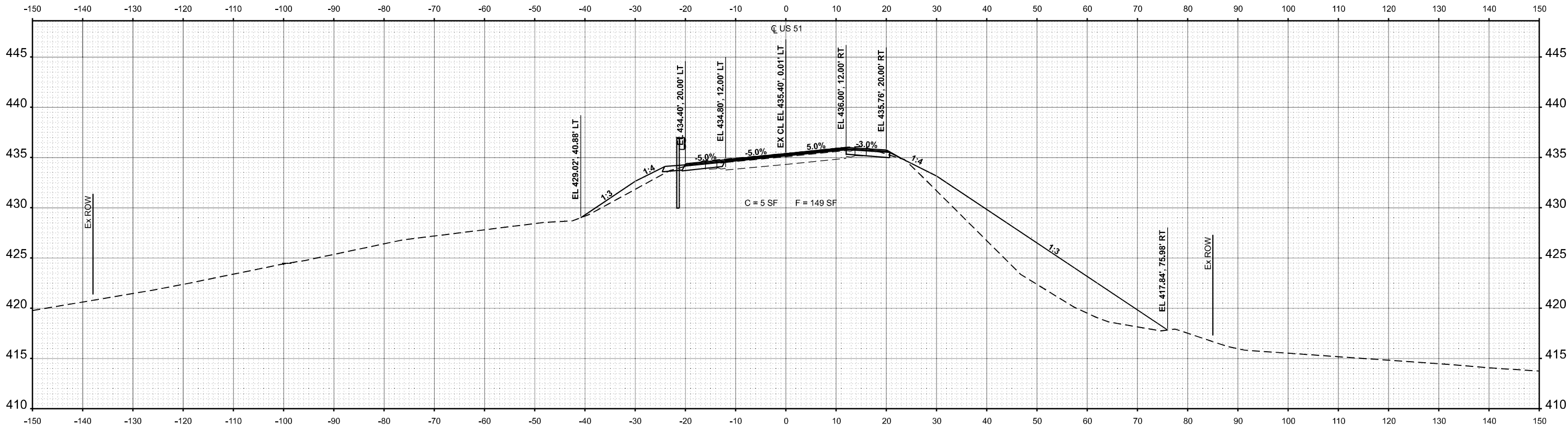
FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: EX_US51 - 436+00.00 R2
FILE NAME: P:\2022\20191A - US 51 over ICR Bridge Replacement Phase 1\4 CAD - DWG\4.7 Tran\CAD_Sheets\07993-51b-XSEC.dgn



STA 436+50.00
END IMPROVEMENTS STA 436+12.03



STA 436+00.00



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IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = bbillhartz
PLOT SCALE = 19.99996000' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

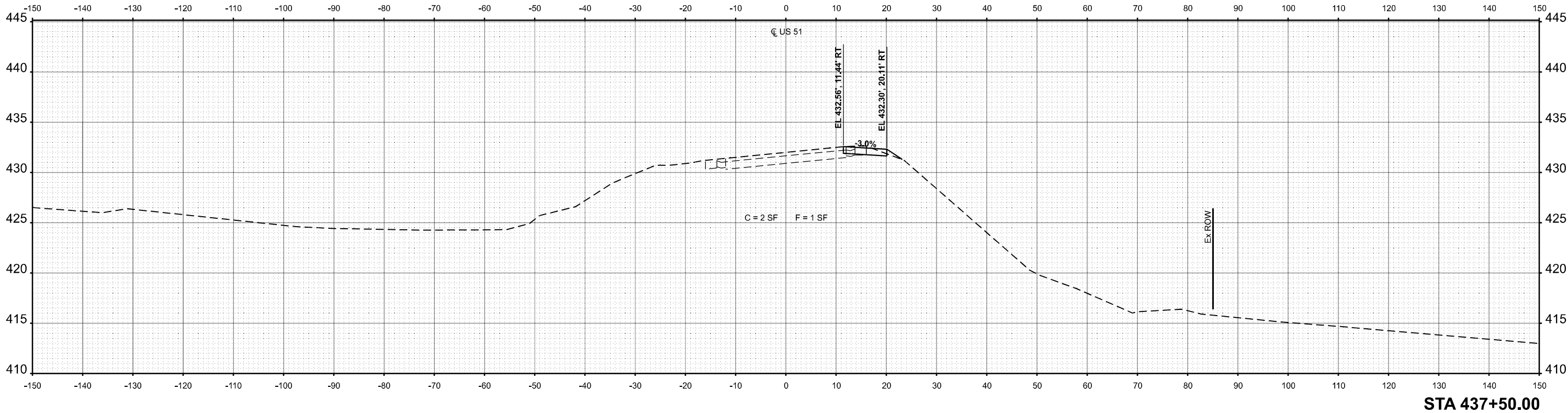
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

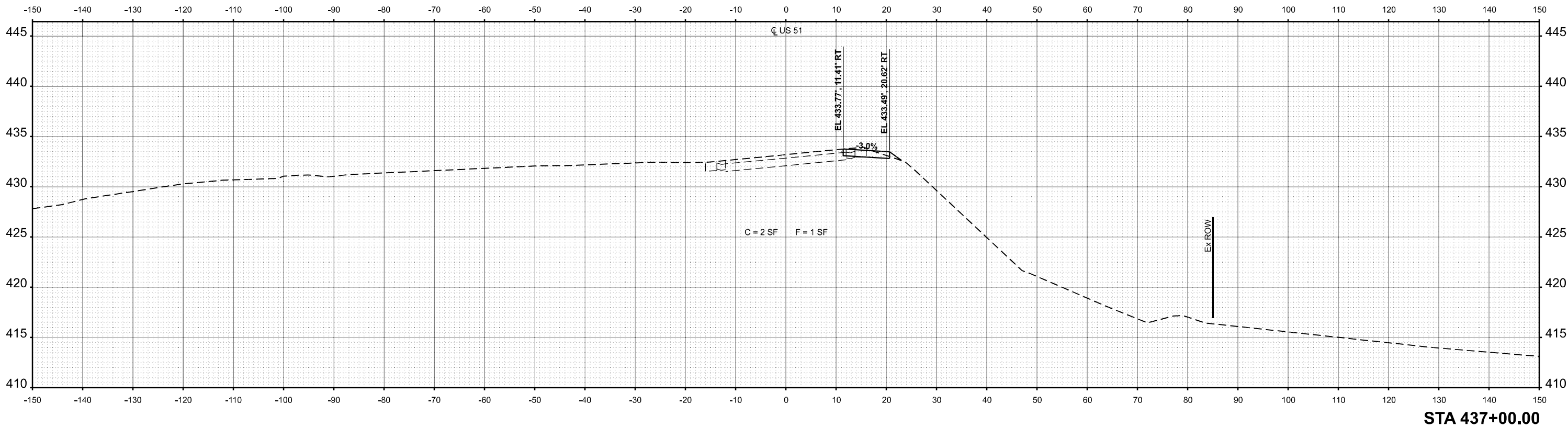
SCALE: 1"=10'
SHEET 19 OF 21 SHEETS
STA. 436+00.00 TO STA. 436+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	122
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED PLOTTED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS		



ORIGINAL SURVEY	SURVEYED PLOTTED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS		



MODEL: E:\US51 - 437+00.00 R2
FILE NAME: P:\2022\20191A - US 51 over ICR Bridge Replacement Phase 1\4 CAD - DWG\4.7 TranCAD_Sheets\078937-shr-XSEC.dgn



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IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = bbillhartz
PLOT SCALE = 19.99996000' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

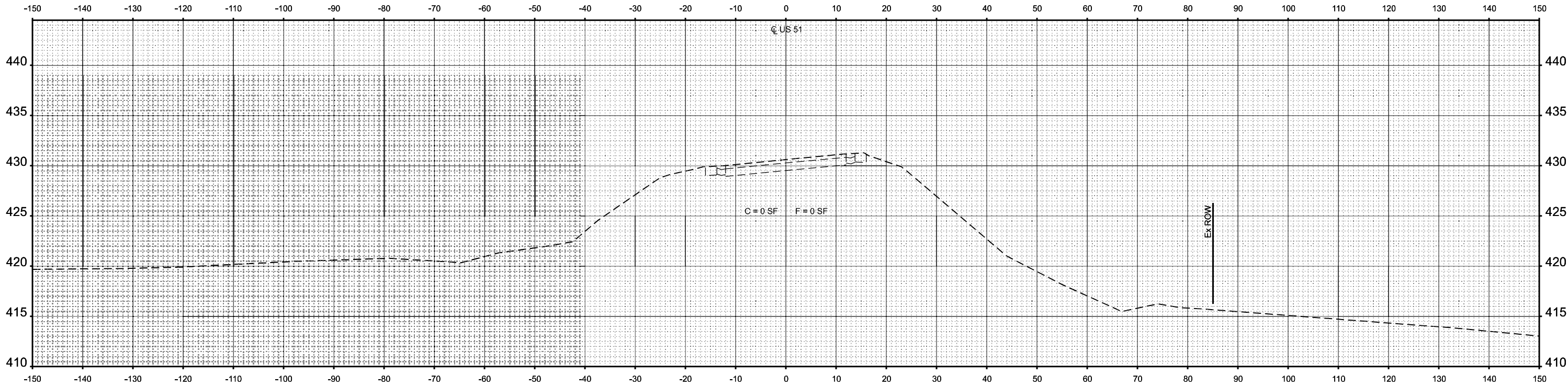
SCALE: 1"=10' SHEET 20 OF 21 SHEETS STA. 437+00.00 TO STA. 437+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	123
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: E:_US51 - 438+00.00 R2
FILE NAME: P:\2022\20197A - US 51 over ICR Bridge Replacement Phase 1\4 CAD - DWG\4.7 Tran\CAD_Sheets\DW78937-shr-SEC.dgn



STA 438+00.00



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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = bbillhartz

PLOT SCALE = 19.999996000 ' / in.
PLOT DATE = 8/21/2025

DESIGNED - TBP
DRAWN - BAB
CHECKED - SJK
DATE - 5/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 51

SCALE: 1"=10' SHEET 21 OF 21 SHEETS STA. 438+00.00 TO STA. 438+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	3VB-3	JACKSON	124	124
CONTRACT NO. 78937				
ILLINOIS FED. AID PROJECT				