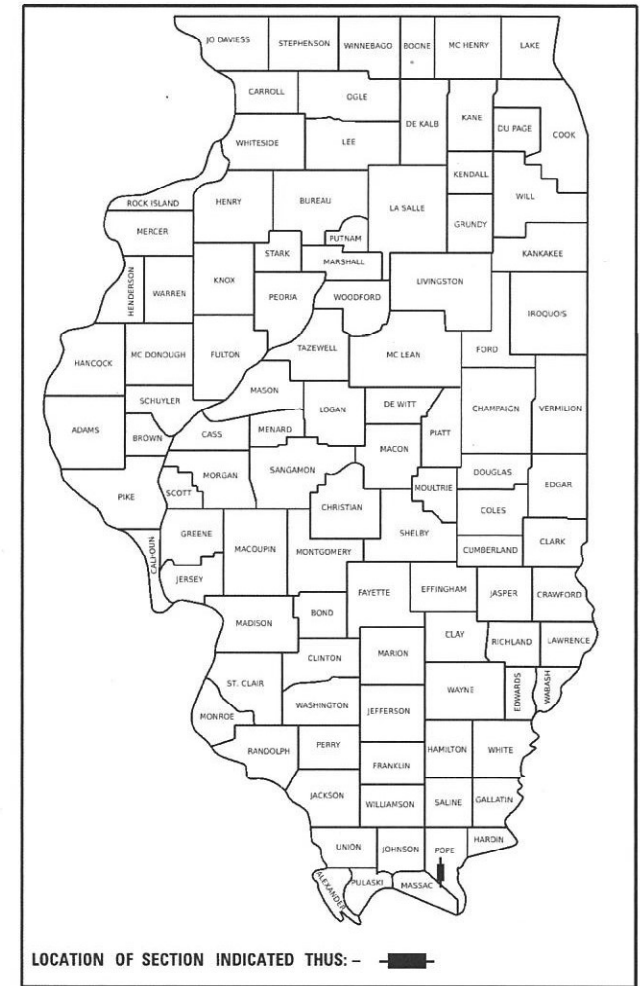


06-16-2023 LETTING ITEM 159

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	1
		ILLINOIS	CONTRACT NO. 78792	

D-99-043-20



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4 TO 10

TRAFFIC DATA

ROADWAY CLASSIFICATION: MINOR ARTERIAL
DESIGN SPEED = 55 MPH
CURRENT ADT (2020) = 2,060
DESIGN YEAR ADT (2040) = 2,510
SU = 7.6%
MU = 3.9%

TOWNSHIP

COUNTY UNIT ROAD DISTRICT NO. 1

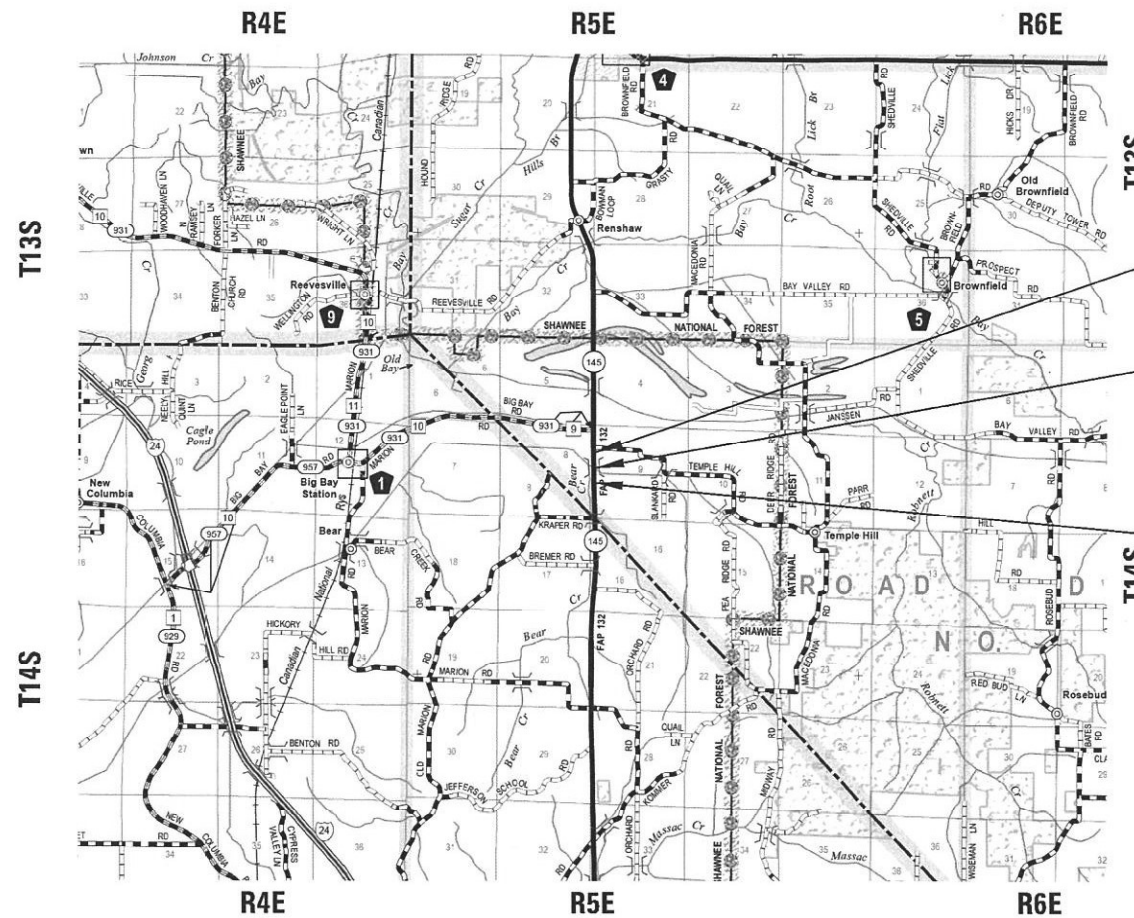
COORDINATE SYSTEM : STATE PLANE ZONE - ILLINOIS EAST

POSTED SPEED : 55 MPH

PROPOSED HIGHWAY PLANS

FAP ROUTE 132 (IL RTE 145)
SECTION 103B-3
PROJECT STP-Z4PX(427)
STRUCTURE REPLACEMENT
POPE COUNTY

C-99-065-20



END IMPROVEMENTS
STA. 772+05
(ILLINOIS ROUTE 145)

EXISTING SN 076-0019 PROPOSED SN 076-0034
☐ STRUCTURE STA 768+83.00 IL RTE 145 OVER BEAR CREEK DITCH

BEGIN IMPROVEMENTS
STA. 765+65
(ILLINOIS ROUTE 145)

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

PROJECT ENGINEER: GRANT DETERDING, P.E.
PROJECT DESIGNER: CMT

CONTRACT NO. 78792

GROSS LENGTH = 640.0 FT. = 0.121 MILE
NET LENGTH = 640.0 FT. = 0.121 MILE



SEAL

SIGNATURE: *Matthew J. Overbey*

DATE SIGNED: 03/17/2023

LICENSE EXPIRATION DATE: 11/30/2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *March 24 2023*
Kirk H. Brown
REGION FIVE ENGINEER

May 12, 2023 *[Signature]*
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 *[Signature]*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

MODEL: Signature Plan 1 (Sheet)
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Prepared By: Charles Stein
 DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Hee
 DISTRICT LAND ACQUISITION ENGINEER

Examined By: Car Nelson
 DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: [Signature]
 DISTRICT OPERATIONS ENGINEER

Examined By: Dave J. Wenzel
 DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Dave J. Wenzel
 DISTRICT CONSTRUCTION ENGINEER

Examined By: Aam Hang
 DISTRICT MATERIALS ENGINEER

USER NAME = byoung	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 132 (ILLINOIS ROUTE 145) SIGNATURE SHEET		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -				132	103B-3	POPE	76	2
PLOT DATE = 3/17/2023	CHECKED -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	DATE -	REVISED -								

INDEX OF SHEETS

1	COVER
2	SIGNATURE
3	GENERAL NOTES
4 - 10	SUMMARY OF QUANTITIES
11 - 12	TYPICAL SECTIONS
13 - 17	SCHEDULES OF QUANTITIES
18	ALIGNMENT, TIES, AND BENCHMARKS
19 - 21	PLAN AND PROFILES
22 - 23	MAINTENANCE OF TRAFFIC - STAGE 1
24 - 25	MAINTENANCE OF TRAFFIC - STAGE 2
26 - 27	PAVEMENT MARKING PLANS
28	EROSION CONTROL PLANS
29	REMOVAL PLANS
30	RIGHT-OF-WAY PLANS
31 - 55	STRUCTURE PLANS - S.N. 076-0034
56 - 61	EXISTING STRUCTURE PLANS
62 - 65	CONSTRUCTION DETAILS
66 - 76	CROSS SECTIONS

GENERAL NOTES

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

ALL AGGREGATE	2.05 TONS/CU. YD.
RIPRAP	1.50 TONS/CU. YD.
ALL HOT-MIX ASPHALT	2.016 TONS/CU. YD.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL, BINDER COURSE, AND SURFACE COURSE.
- AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAYMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 300 FT INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- LONGITUDINAL JOINT SEALANT SHALL BE PLACED ALONG THE CENTERLINE JOINT, UNDER THE HMA SURFACE COURSE.

COMMITMENTS

- TREES SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631051-03	TRAFFIC BARRIER TERMINAL, TYPE 11
631061-01	TRAFFIC BARRIER TERMINAL, TYPE 13
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS
701321-18	LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
420001-10	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
666001-01	RIGHT-OF-WAY MARKERS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

HMA MIXTURE TABLE

LOCATIONS	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70
PG:	PG 64-22
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL-9.5mm
FRICTION AGGREGATE:	MIX C
MIXTURE WEIGHT:	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	1,000 TONS
MATERIAL TRANSFER DEVICE	NO

LOCATIONS	HOT-MIX ASPHALT SHOULDERS (TOP LIFT)
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70
PG:	PG 64-22
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL-9.5mm
FRICTION AGGREGATE:	MIX C
MIXTURE WEIGHT:	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A
MATERIAL TRANSFER DEVICE	NO

LOCATIONS	HOT-MIX ASPHALT SHOULDERS (BOTTOM LIFT)
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
PG:	PG 64-22
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL-19.0
FRICTION AGGREGATE:	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A
MATERIAL TRANSFER DEVICE	NO

REV. - MS

Lift Requirements:
Surface Course 2"
Binder Course 2"
Binder Course 4"

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
GENERAL NOTES**

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

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 3
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE
 F.A.P. 132 - POPE COUNTY
 FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0004	0010
				RURAL	S.N. 076-0034
20200100	EARTH EXCAVATION	CU YD	1,893	1,893	
20300100	CHANNEL EXCAVATION	CU YD	670	670	
20400800	FURNISHED EXCAVATION	CU YD	157	157	
25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	115	115	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	115	115	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	115	115	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.5	2.5	
25000750	MOWING	ACRE	1.50	1.50	
25100115	MULCH, METHOD 2	ACRE	1.25	1.25	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	125	125	
28000305	TEMPORARY DITCH CHECKS	FOOT	129	129	
28000400	PERIMETER EROSION BARRIER	FOOT	481	481	
28100107	STONE RIPRAP, CLASS A4	SQ YD	643		643

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	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
 SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 4
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE
 F.A.P. 132 - POPE COUNTY
 FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0004	0010
				RURAL	S.N. 076-0034
28200200	FILTER FABRIC	SQ YD	643		643
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	87.4	87.4	
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	573	573	
35650500	BASE COURSE WIDENING 10"	SQ YD	98	98	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	101	101	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,347	1,347	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	799	799	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	450	450	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	205	205	
40600990	TEMPORARY RAMP	SQ YD	216	216	
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	185.7	185.7	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	239	239	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	239	239	
42001300	PROTECTIVE COAT	SQ YD	239	239	

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	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
 SUMMARY OF QUANTITIES**

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 5
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE
 F.A.P. 132 - POPE COUNTY
 FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0004	0010
				RURAL	S.N. 076-0034
44000100	PAVEMENT REMOVAL	SQ YD	536	536	
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	453	453	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	158		158
50200300	COFFERDAM EXCAVATION	CU YD	302		302
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	171.1		171.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	128.9		128.9
50300260	BRIDGE DECK GROOVING	SQ YD	450		450
50300300	PROTECTIVE COAT	SQ YD	479		479
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	89.3		89.3
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	108,600		108,600
50800515	BAR SPLICERS	EACH	690		690

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	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
 SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 6
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE
 F.A.P. 132 - POPE COUNTY
 FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0004	0010
				RURAL	S.N. 076-0034
50900211	STEEL RAILING, TYPE IL-OH	FOOT	202		202
50901125	STEEL RAILING (TEMPORARY)	FOOT	472	472	
51201610	FURNISHING STEEL PILES HP12X63	FOOT	2,744		2,744
51202305	DRIVING PILES	FOOT	2,744		2,744
51203610	TEST PILE STEEL HP12X63	EACH	4		4
51204650	PILE SHOES	EACH	32		32
51500100	NAME PLATES	EACH	1		1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	282		282
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	66		66
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	43		43
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4	
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	116		116
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	187.5	187.5	
* 63100110	TRAFFIC BARRIER TERMINAL, TYPE 11	EACH	2	2	

* SPECIALTY ITEM

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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
 SUMMARY OF QUANTITIES**

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 7
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE
 F.A.P. 132 - POPE COUNTY
 FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0004	0010
				RURAL	S.N. 076-0034
* 63100117	TRAFFIC BARRIER TERMINAL, TYPE 13	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	586	586	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	2	
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	6	6	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56	

* SPECIALTY ITEM

REV. - MS

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
 SUMMARY OF QUANTITIES**

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 8
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE
 F.A.P. 132 - POPE COUNTY
 FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0004	0010
				RURAL	S.N. 076-0034
70300100	SHORT TERM PAVEMENT MARKING	FOOT	316	316	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,174	1,174	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	5,674	5,674	
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	52	52	
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	3,196	3,196	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	575	575	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	54	54	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	150	150	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2,490	2,490	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	11	11	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16	

* SPECIALTY ITEM

MODEL: S00-4 (Rev.1)
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PLOT DATE = 3/30/2023	CHECKED -	REVISIED -
	DATE -	REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

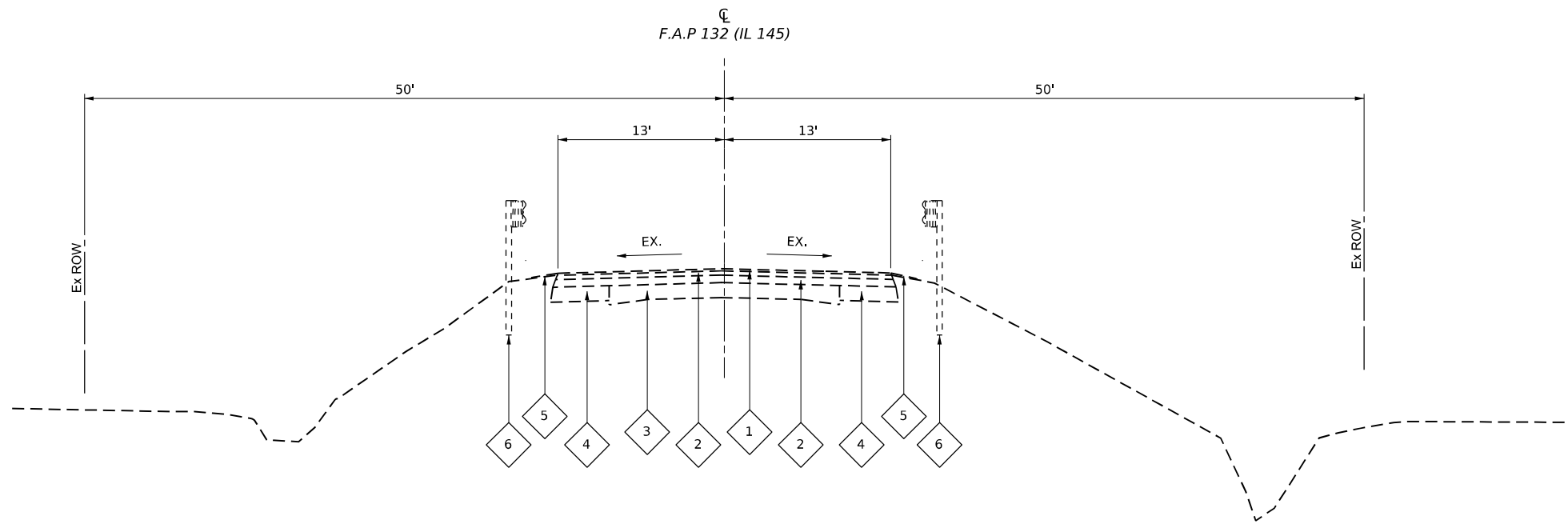
F.A.P. 132 (ILLINOIS ROUTE 145)
 SUMMARY OF QUANTITIES

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 9
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

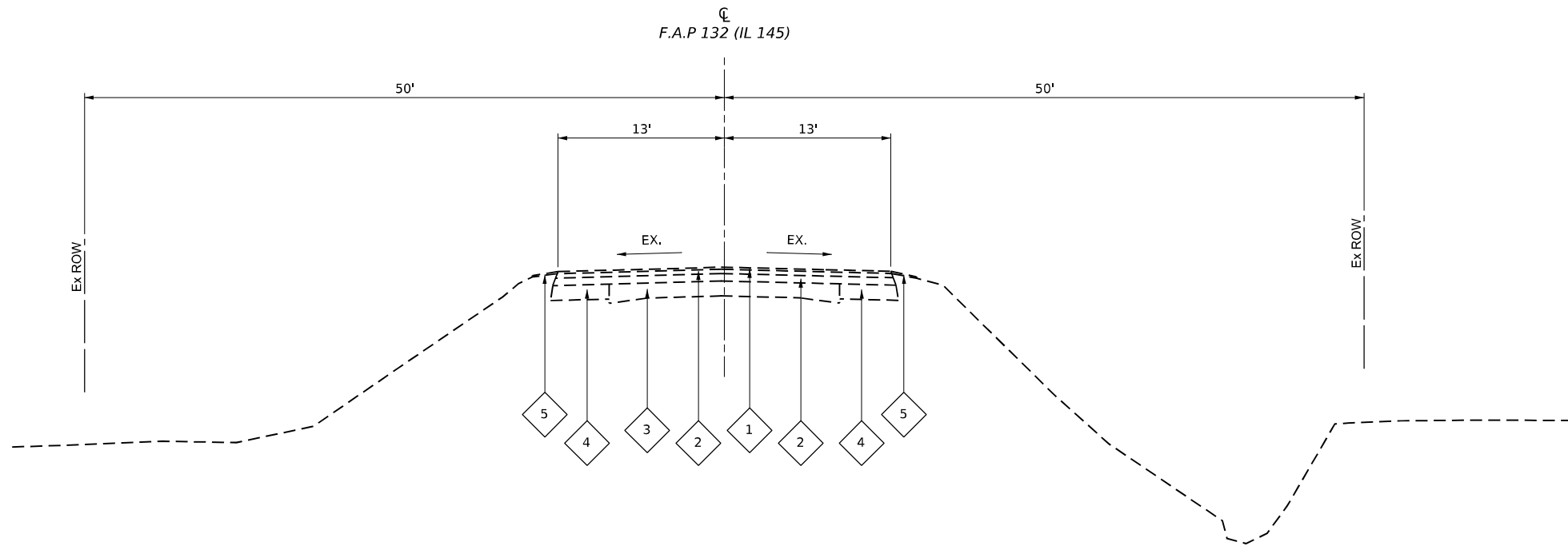
TYPICAL SECTION LEGEND

- 1 EXISTING BITUMINOUS SURFACE COURSE, 1½"
- 2 EXISTING BITUMINOUS BINDER COURSE, VARIES
- 3 EXISTING PCC BASE COURSE, 7"
- 4 EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 7"
- 5 EXISTING AGGREGATE SHOULDER, TYPE B
- 6 EXISTING GUARDRAIL
- 7 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 4"
- 8 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A (VARIES)
- 9 PROPOSED HOT-MIX ASPHALT SHOULDER, 10"
- 10 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70, 2¼" (AND VARIES)
- 11 PROPOSED STEEL PLATE BEAM GUARDRAIL
- 12 PROPOSED PAVEMENT MARKING



EXISTING FAP ROUTE 132 (IL 145)

STA 765+65.00 TO STA 767+90.41
 STA 769+75.39 TO STA 772+05.00



EXISTING FAP ROUTE 132 (IL 145)

STA 765+65.00 TO STA 767+90.41
 STA 769+75.39 TO STA 772+05.00

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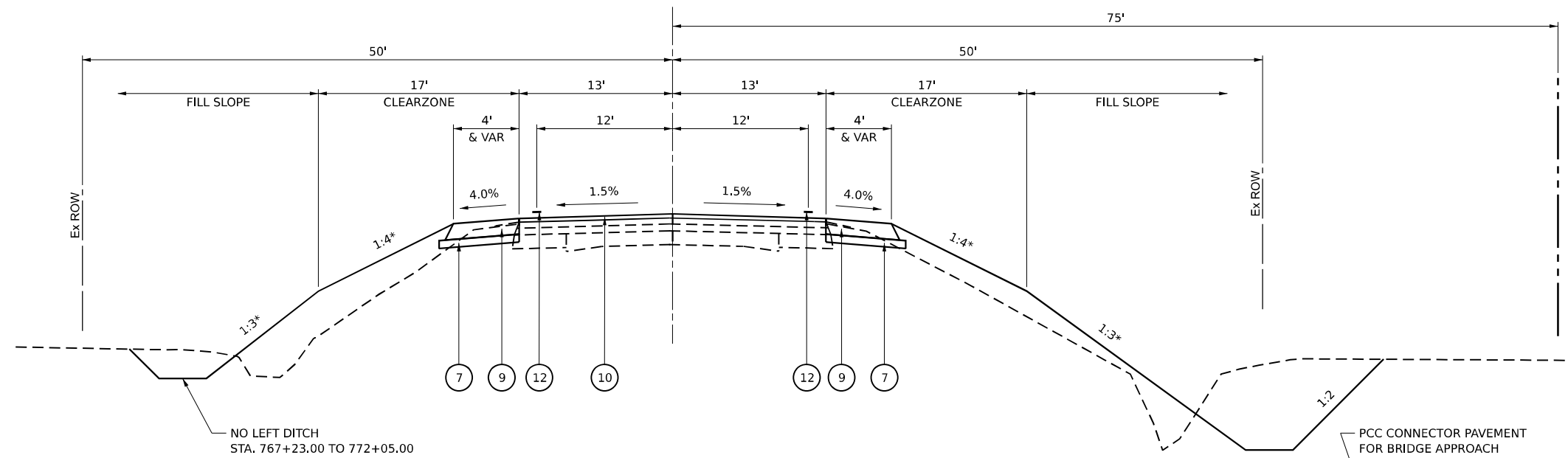
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 132 (ILLINOIS ROUTE 145)
 TYPICAL SECTIONS - EXISTING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	11
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

F.A.P 132 (IL 145)



PROPOSED FAP ROUTE 132 (IL 145)

STA 765+65.00 TO STA 766+47.87
STA 771+03.63 TO STA 772+05.00

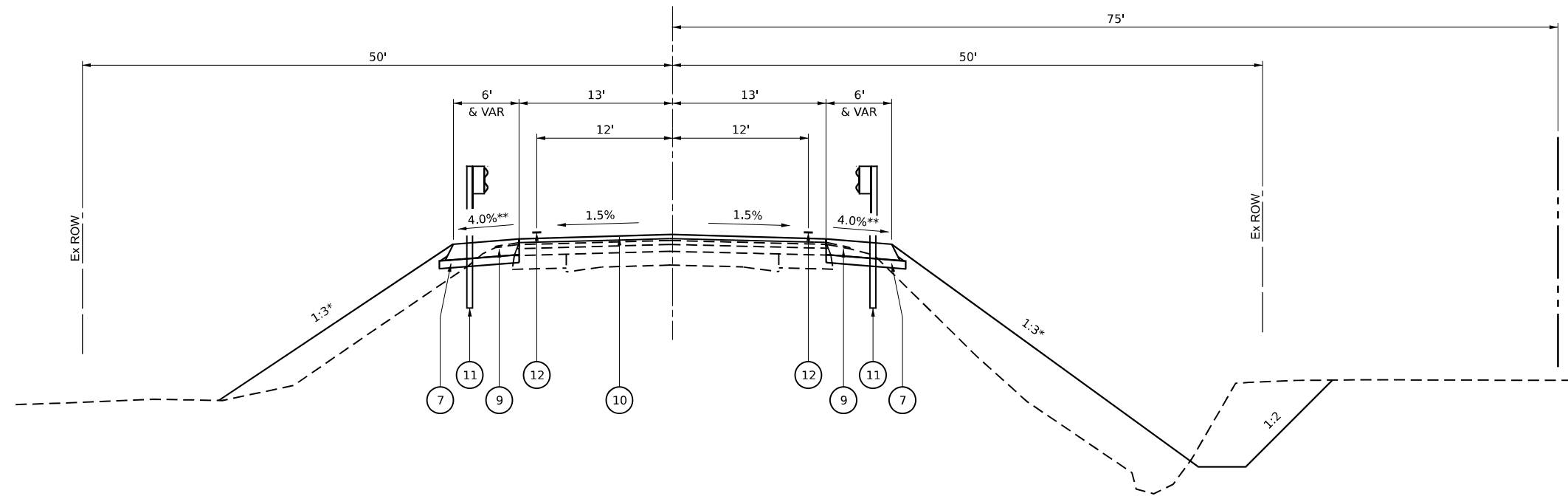
TYPICAL SECTION LEGEND

- 1 EXISTING BITUMINOUS SURFACE COURSE, 1½"
- 2 EXISTING BITUMINOUS BINDER COURSE, VARIES
- 3 EXISTING PCC BASE COURSE, 7"
- 4 EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 7"
- 5 EXISTING AGGREGATE SHOULDER, TYPE B
- 6 EXISTING GUARDRAIL
- 7 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 4"
- 8 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A (VARIES)
- 9 PROPOSED HOT-MIX ASPHALT SHOULDER, 10"
- 10 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70, 2¾" (AND VARIES)
- 11 PROPOSED STEEL PLATE BEAM GUARDRAIL
- 12 PROPOSED PAVEMENT MARKING

FORESLOPE TRANSITIONS*

BEGIN STATION	TO	END STATION	SIDE	CLEARZONE SLOPE BEGIN	CLEARZONE SLOPE END	FILL SLOPE BEGIN	FILL SLOPE END
765+65.00	TO	766+50.00	RT	1:4	1:4	1:3	1:3
765+65.00	TO	768+20.00	LT	1:4	1:4	1:3	1:3
766+50.00	TO	767+00.00	RT	1:4	1:3	1:3	1:3
767+00.00	TO	767+75.00	RT	1:3	1:3	1:3	1:3
767+75.00	TO	768+25.00	RT	1:3	1:2	1:3	1:2
768+20.00	TO	768+63.21	LT	1:4	1:2	1:3	1:2
768+25.00	TO	769+02.80	RT	BRIDGE OMISSION			
768+63.21	TO	769+39.92	LT	BRIDGE OMISSION			
769+02.80	TO	769+50.00	RT	1:2	1:3	1:2	1:3
769+39.92	TO	769+90.00	LT	1:2	1:3	1:2	1:3
769+50.00	TO	769+65.00	RT	1:3	1:3	1:3	1:3
769+65.00	TO	770+15.00	RT	1:3	1:4	1:3	1:3
769+90.00	TO	770+50.00	LT	1:3	1:3	1:3	1:3
770+15.00	TO	771+45.00	RT	1:4	1:4	1:3	1:3
770+50.00	TO	771+00.00	LT	1:3	1:4	1:3	1:3
771+00.00	TO	772+05.00	LT	1:4	1:4	1:3	1:3
771+45.00	TO	772+05.00	RT	1:4	EXIST.	1:3	EXIST.

F.A.P 132 (IL 145)



PROPOSED FAP ROUTE 132 (IL 145)

STA 766+47.87 TO STA 771+03.63

SHOULDER CROSS SLOPE TRANSITIONS AT STRUCTURES**

STATION (BEGIN)	TO	STATION (END)	SIDE	CROSS SLOPE (BEGIN)	CROSS SLOPE (END)
768+02.80	TO	768+27.80	RT	4.00%	2.00%
768+28.26	TO	768+53.26	LT	4.00%	2.00%
769+12.75	TO	769+37.75	RT	2.00%	4.00%
769+38.20	TO	769+63.20	LT	2.00%	4.00%

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PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 132 (ILLINOIS ROUTE 145)
TYPICAL SECTIONS - PROPOSED

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

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 12
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION			EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
							EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
STA.	TO	STA.	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD	
765+65.00	TO	766+50.00	142	25%	107	116	10		10	
766+50.00	TO	771+50.00	1,648	25%	1,236	1,145	0		0	
771+50.00	TO	772+05.00	103	25%	77	105	28		28	
SN 076-0034						120	120		120	
TOTALS			1,893						157	

SEEDING SCHEDULE

LOCATION				SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MOWING	MULCH, METHOD 2
STA.	TO	STA.		ACRE	POUND	POUND	POUND	TON	ACRE	ACRE
765+65.00	TO	770+00.00	LT	0.28	26	26	26	0.6	0.40	0.28
765+65.00	TO	770+00.00	RT	0.53	48	48	48	1.0	0.60	0.53
770+00.00	TO	772+05.00	LT	0.16	15	15	15	0.3	0.20	0.16
770+00.00	TO	772+05.00	RT	0.28	26	26	26	0.6	0.30	0.28
TOTAL				1.25	115	115	115	2.5	1.50	1.25

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	DRAWN -	REVISED -
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PLOT DATE = 3/30/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 132 (ILLINOIS ROUTE 145)
SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	13
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT PAVEMENT SCHEDULE

LOCATION			SUBBASE GRANULAR MATERIAL, TYPE A 4"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HMA SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	HMA SURFACE COURSE, IL-9.5, MIX "C", N70	PAVEMENT REMOVAL	HMA SHOULDERS, 10"
STA.	TO	STA.	SQ YD	POUND	POUND	FOOT	FOOT	SQ YD	TON	SQ YD	SQ YD
765+65.00	TO	766+50.00	91	205	141	85	103	44	32.7		64
766+50.00	TO	767+87.80	115	460	256	138		64	55.0	219	160
769+78.20	TO	771+50.00	112	560	313	172		64	80.6	219	192
771+50.00	TO	772+05.00	29	122	89	55	102	44	17.4		37
TOTAL			347	1,347	799	450	205	216	185.7	438	453

*SEE MAINTENANCE OF TRAFFIC SCHEDULE FOR ADDITIONAL PAVEMENT REMOVAL QUANTITIES

**SEE PCC CONNECTOR SCHEDULE FOR ADDITIONAL SUBBASE GRANULAR MATERIAL, TYPE A 4"

PCC CONNECTOR SCHEDULE

LOCATION			SUBBASE GRANULAR MATERIAL, TYPE A	SUBBASE GRANULAR MATERIAL, TYPE A 4"	WELDED WIRE REINFORCEMENT	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PROTECTIVE COAT
STA.	TO	STA.	TON	SQ YD	SQ YD	SQ YD	SQ YD
767+87.80	TO	768+46.83	43.7	113	120	120	120
769+19.18	TO	769+78.20	43.7	113	119	119	119
TOTAL			87.4	226	239	239	239

**SEE HOT-MIX ASPHALT PAVEMENT SCHEDULE FOR ADDITIONAL SUBBASE GRANULAR MATERIAL, TYPE A 4"

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PLOT DATE = 3/30/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 132 (ILLINOIS ROUTE 145)
SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	14
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

LOCATION			MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
			WHITE	YELLOW		
STA.	TO	STA.	FOOT	FOOT	EACH	EACH
763+47.72	TO	766+50.00	606	80	3	3
766+50.00	TO	771+50.00	1,000	130	4	6
771+50.00	TO	774+47.44	594	80	4	4
TOTAL			2,490		11	13

TEMPORARY PAVEMENT MARKING SCHEDULE

LOCATION			SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	PAVEMENT MARKING REMOVAL - GRINDING
STA.	TO	STA.	FOOT	SQ FT	FOOT	FOOT	FOOT	SQ FT
763+47.72	TO	766+50.00	92	238	1,299	26	617	440
766+50.00	TO	771+50.00	140	715	3,125		2,000	1,045
771+50.00	TO	774+47.46	84	221	1,250	26	579	418
TOTAL			316	1,174	5,674	52	3,196	1,903

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
SCHEDULE OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	15
CONTRACT NO. 78792				
ILLINOIS			FED. AID PROJECT	

MAINTENANCE OF TRAFFIC SCHEDULE

STATION			BASE COURSE WIDENING, 10"	PAVEMENT REMOVAL	STEEL RAILING (TEMPORARY)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (FULLY- REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATOR, RELOCATE (FULLY- REDIRECTIVE, NARROW), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C
STA.	TO	STA.	SQ YD	SQ YD	FEET	FOOT	FOOT	EACH	EACH	EACH	EACH
STAGE 1											
762+50.00	TO	766+50.00				73.8			1		4
766+50.00	TO	771+50.00	98			8.0					
771+50.00	TO	776+00.00				68.2			1		4
STAGE 2											
762+50.00	TO	766+50.00					66.4			1	1
766+50.00	TO	771+50.00		98	472	370.8	83.6	54			6
771+50.00	TO	776+00.00				54.2				1	1
TOTAL			98	98		575	150	54	2	2	16

*SEE HOT-MIX ASPHALT PAVEMENT SCHEDULE FOR ADDITIONAL PAVEMENT REMOVAL QUANTITIES

RIGHT OF WAY MARKER SCHEDULE

LOCATION		FURNISHING AND ERECTING RIGHT OF WAY MARKERS
STA.	OFFSET	EACH
765+50.00	50.00' RT	1
765+50.00	75.00' RT	1
772+75.00	50.00' RT	1
772+75.00	75.00' RT	1
TOTAL		4

CONCRETE HEADWALL SCHEDULE

LOCATION	CONCRETE HEADWALLS FOR PIPE DRAINS
	EACH
NORTH ABUTMENT (SEE BRIDGE PLANS)	2
SOUTH ABUTMENT (SEE BRIDGE PLANS)	2
TOTAL	4

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 132 (ILLINOIS ROUTE 145)
SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	16
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE

LOCATION				STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 13	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
STA.	TO	STA.	OFFSET	FOOT	EACH	EACH	FOOT	EACH	EACH
766+37.46	TO	768+47.36	RT				211		
766+49.87	TO	768+21.37	RT	87.5	1	1		1	4
767+50.33	TO	768+46.83	LT	12.5	1	1		1	4
768+07.58	TO	768+73.47	LT				66		
768+92.25	TO	769+89.37	RT				98		
769+18.29	TO	771+29.03	LT				211		
769+19.18	TO	770+15.68	RT	12.5	1	1		1	4
769+44.63	TO	771+03.63	LT	75.0	1	1		1	4
TOTAL				187.5	4	4	586	4	16

EROSION CONTROL SCHEDULE

LOCATION				TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECK
STA.	TO	STA.		POUND	FOOT	FOOT
765+65.00	TO	770+00.00	LT	28	272	24
765+65.00	TO	770+00.00	RT	54		56
770+00.00	TO	772+05.00	LT	14	209	
770+00.00	TO	772+05.00	RT	29		49
TOTAL				125	481	129

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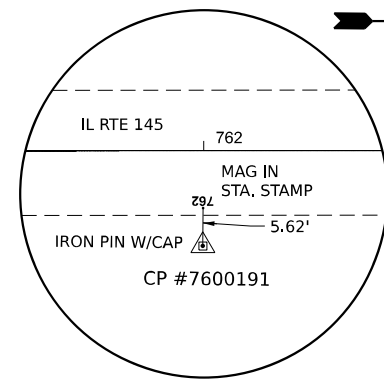
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

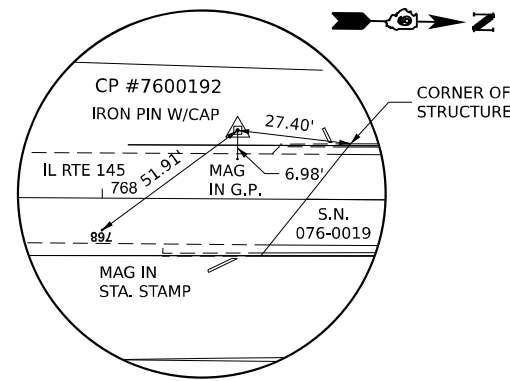
F.A.P. 132 (ILLINOIS ROUTE 145)
SCHEDULE OF QUANTITIES

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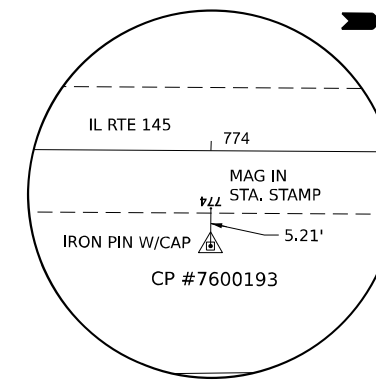
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	17
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



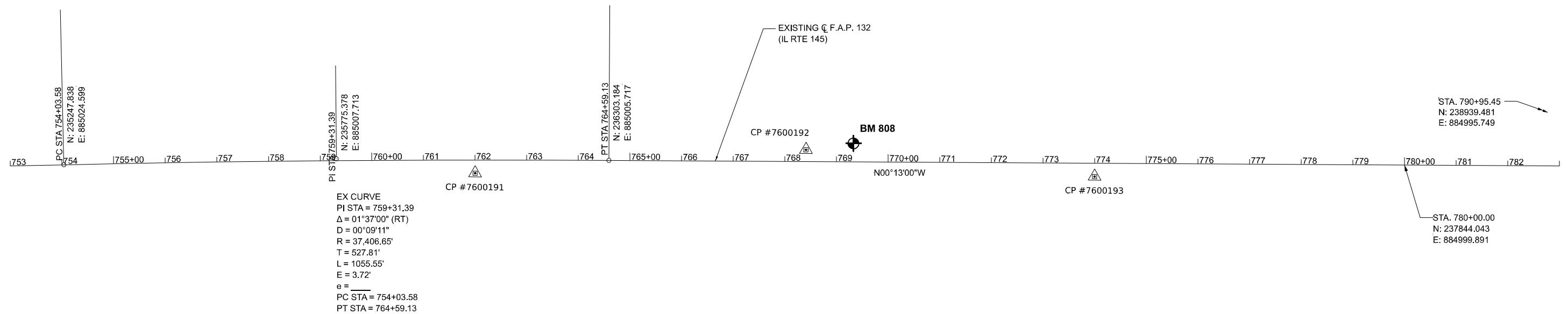
IRON PIN WITH CAP
 STA. 762+01.56, 17.54' RT.
 N = 236045.813
 E = 885025.112



IRON PIN WITH CAP
 STA. 768+41.03, 20.09' LT.
 N = 236685.004
 E = 884984.184



IRON PIN WITH CAP
 STA. 774+02.06, 16.75' LT.
 N = 237246.169
 E = 885018.905



BM 808: CHISLED "□" ON TOP OF WINGWALL OF NE CORNER OF STRUCTURE 076-0019
 ALONG IL RTE 145
 STA. 769+32.57, 20.14' LT.
 ELEV.: 354.765'

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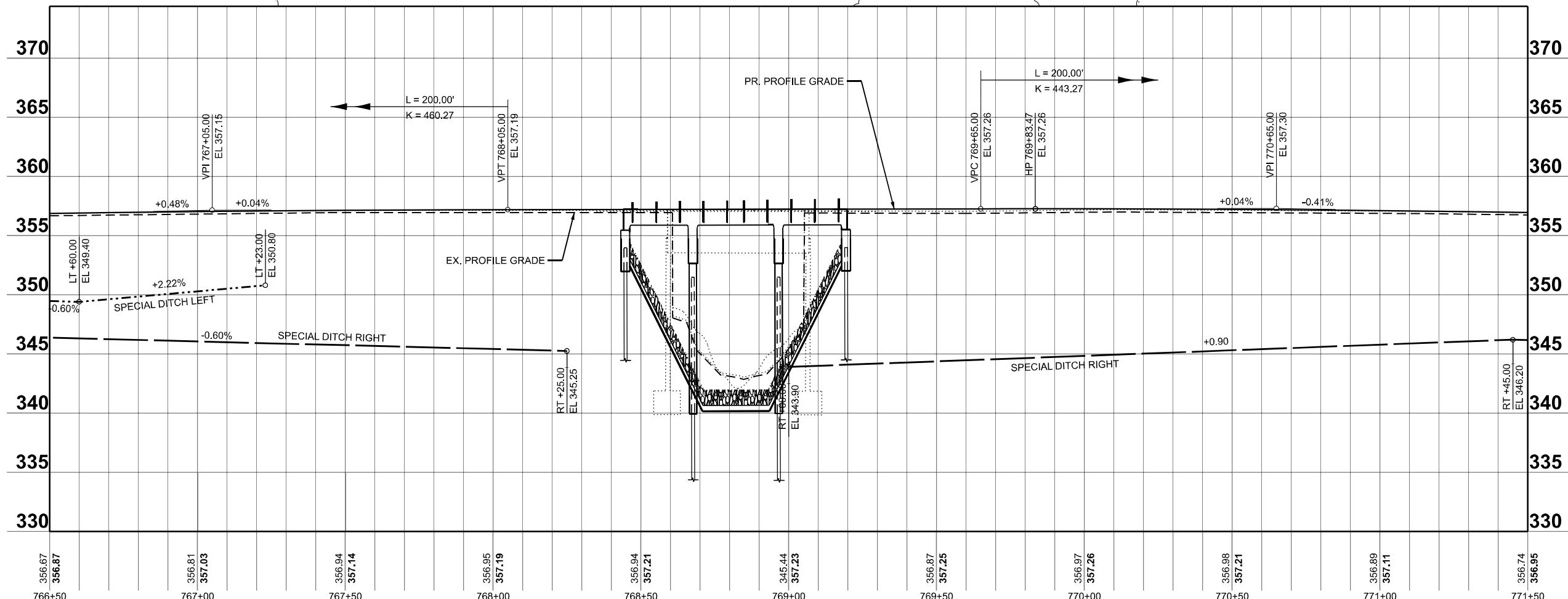
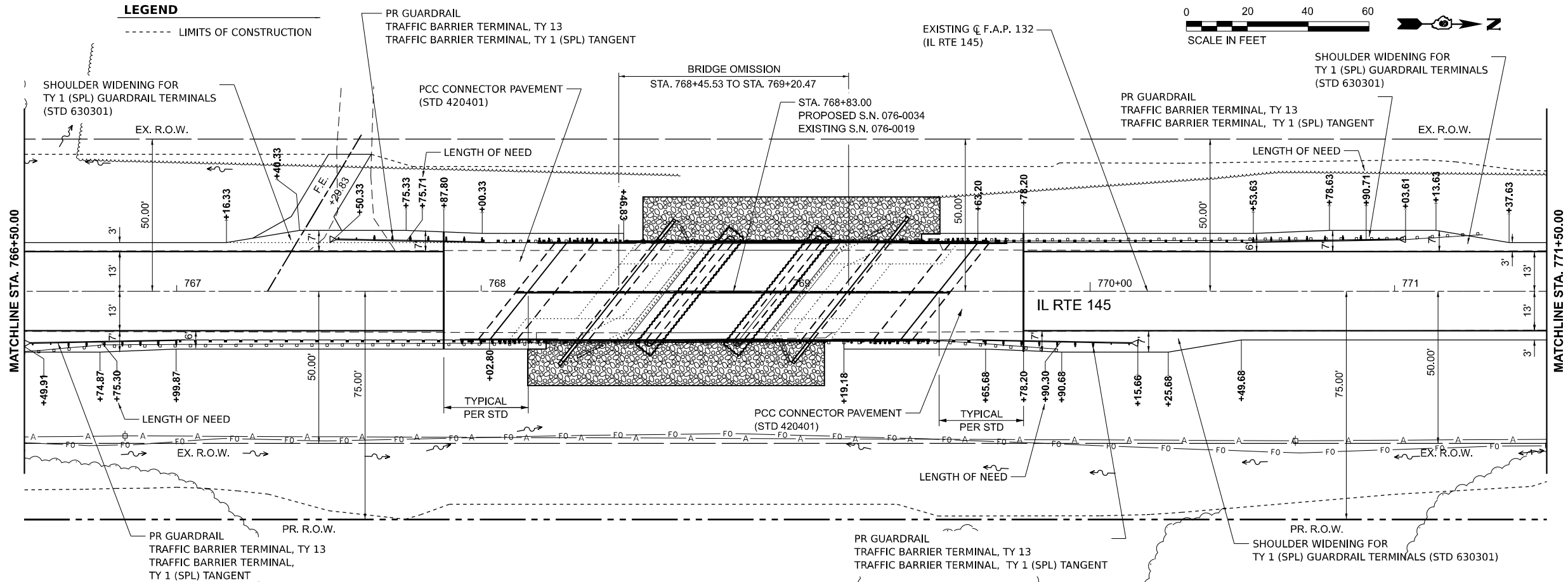
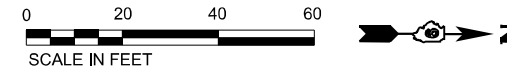
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 132 (ILLINOIS ROUTE 145) ALIGNMENT, TIES AND BENCHMARKS	
SCALE: 1"=100'	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1038-3	POPE	76	18
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

LEGEND

----- LIMITS OF CONSTRUCTION



356.67 766+50	356.87 767+00	356.81 767+50	357.03 768+00	356.94 768+50	357.14 769+00	356.95 769+50	357.19 770+00	356.87 770+50	357.25 771+00	356.97 771+50	357.26 772+00	356.98 772+50	357.21 773+00	356.89 773+50	357.11 774+00	356.74 774+50	356.95 775+00
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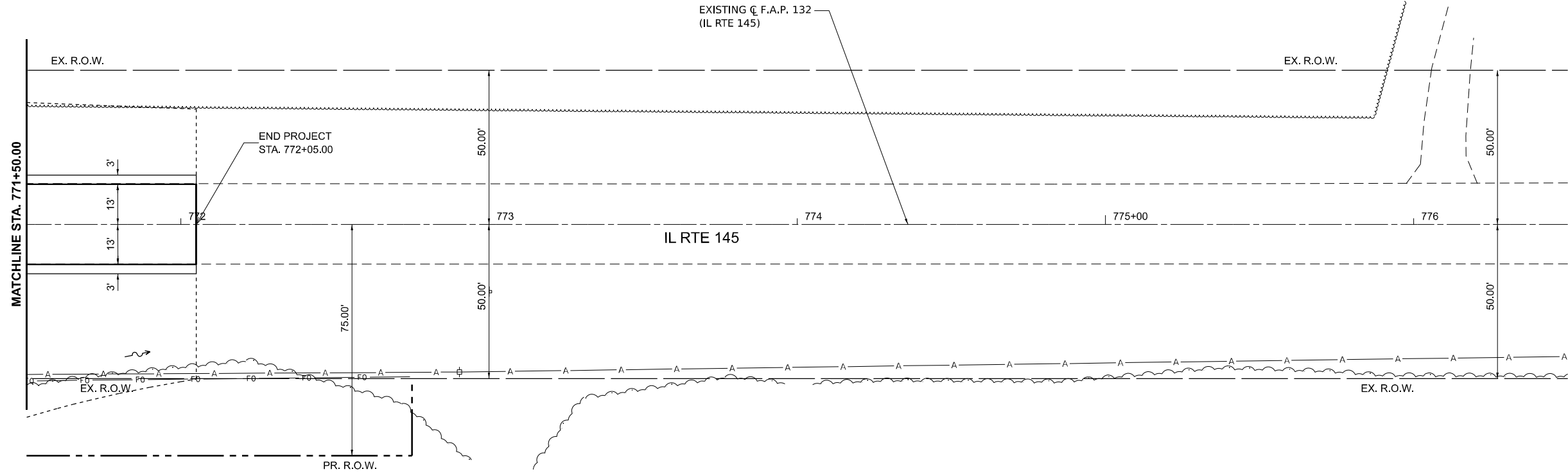
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE SHEETS

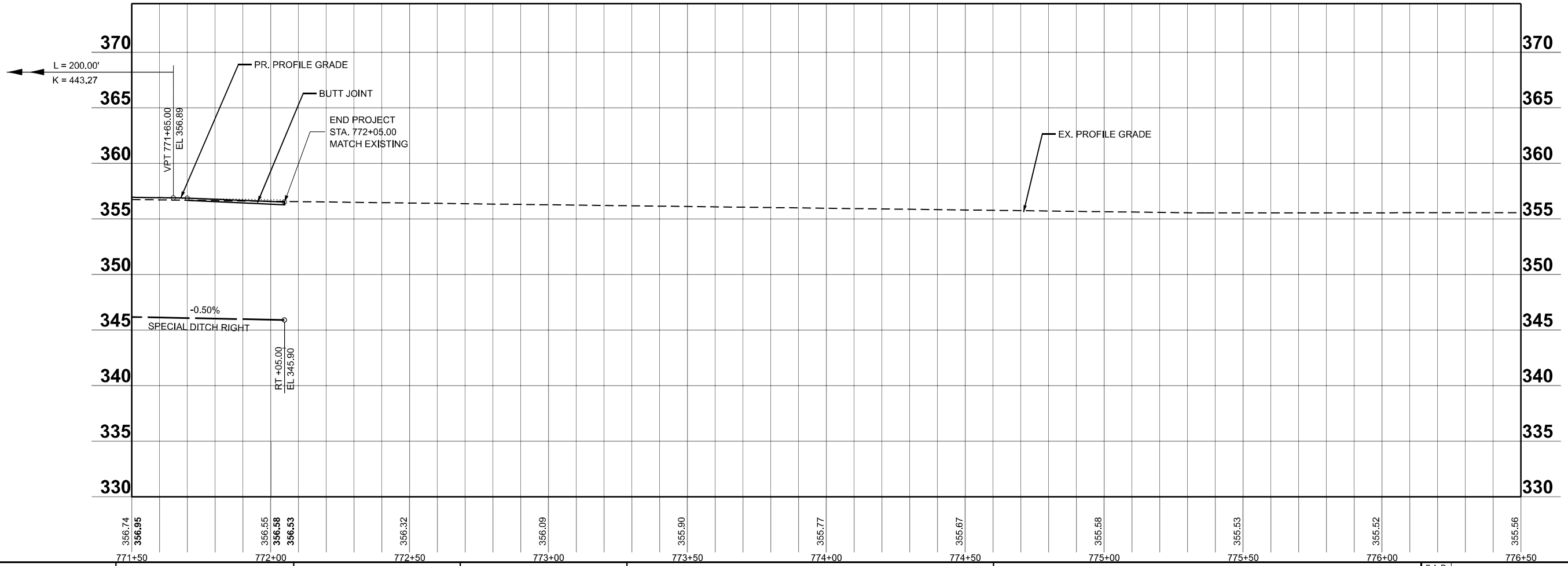
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F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 20
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

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LEGEND
 - - - - - LIMITS OF CONSTRUCTION



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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

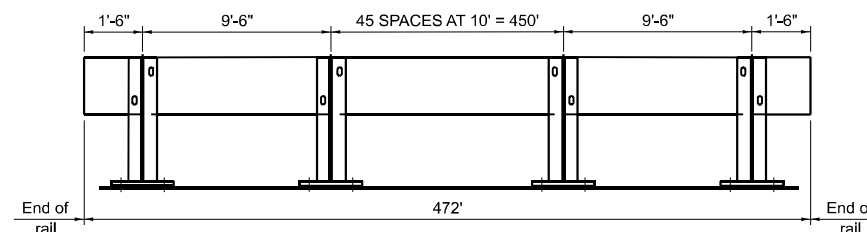
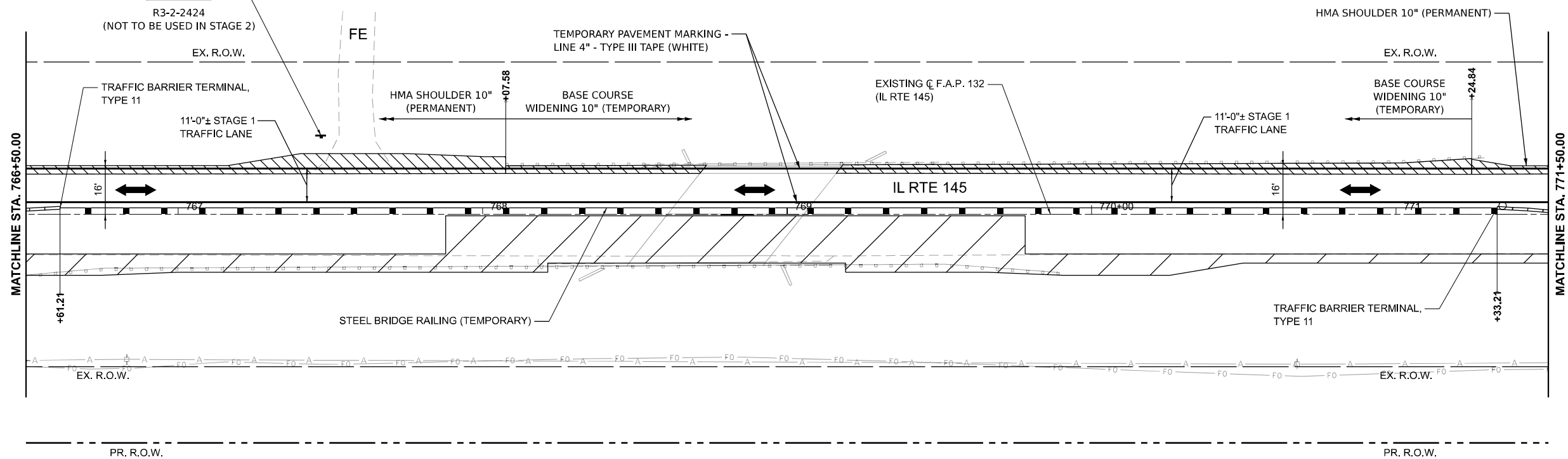
PLAN AND PROFILE SHEETS

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F.A.P. RTE. 132	SECTION 1038-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 21
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



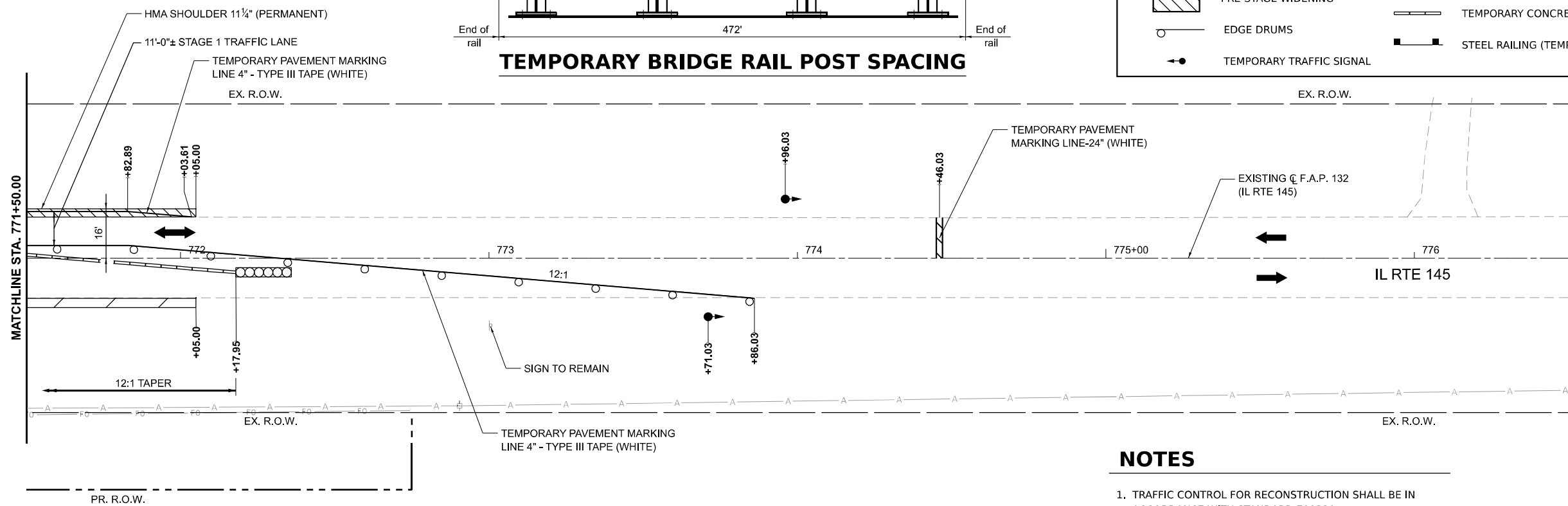
R3-2-2424
(NOT TO BE USED IN STAGE 2)



TEMPORARY BRIDGE RAIL POST SPACING

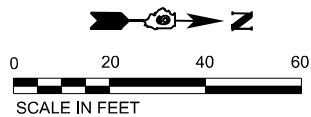
LEGEND

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



NOTES

1. TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.
2. TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.



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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
MAINTENANCE OF TRAFFIC - STAGE I**

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

F.A.P. RTE. 132	SECTION 1038-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 23
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

STAGE CONSTRUCTION GENERAL NOTES

- ONE LANE OF TRAFFIC ON IL 145 SHALL BE MAINTAINED AT ALL TIMES.
- EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE 2 CONSTRUCTION

PHASE 1

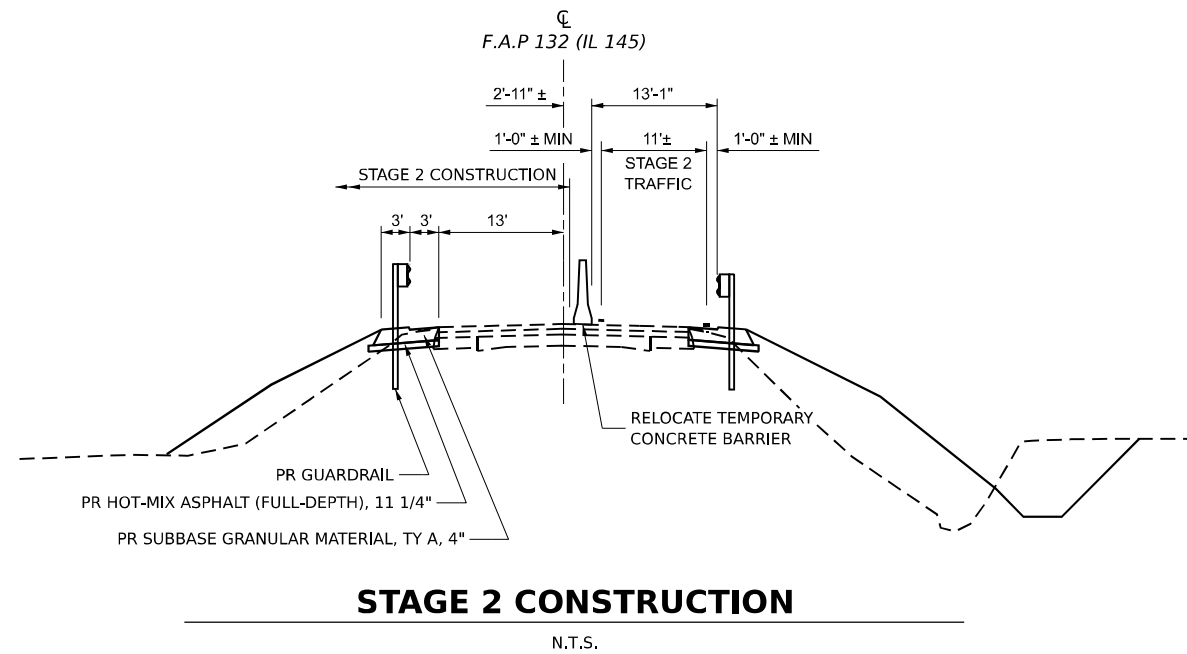
- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201, 701326 AND 701321.
- PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE DETAILS BELOW.

PHASE 2

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE NORTHBOUND SIDE OF IL 145.
- CONSTRUCT TEMPORARY SHEET PILING AT THE NORTH AND SOUTH SIDE OF EXISTING STRUCTURE AND REMOVE THE SOUTHBOUND SIDE OF EXISTING STRUCTURE.
- CONSTRUCT THE SOUTHBOUND SIDE OF BRIDGE STRUCTURE, EMBANKMENT AT NORTH AND SOUTH SIDES OF PROPOSED STRUCTURE, APPROACH PAVEMENT AND FULL-DEPTH SHOULDERS.
- INSTALL GUARDRAIL ON SOUTHBOUND SIDE OF IL 145 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

TRAFFIC CONTROL NOTES

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

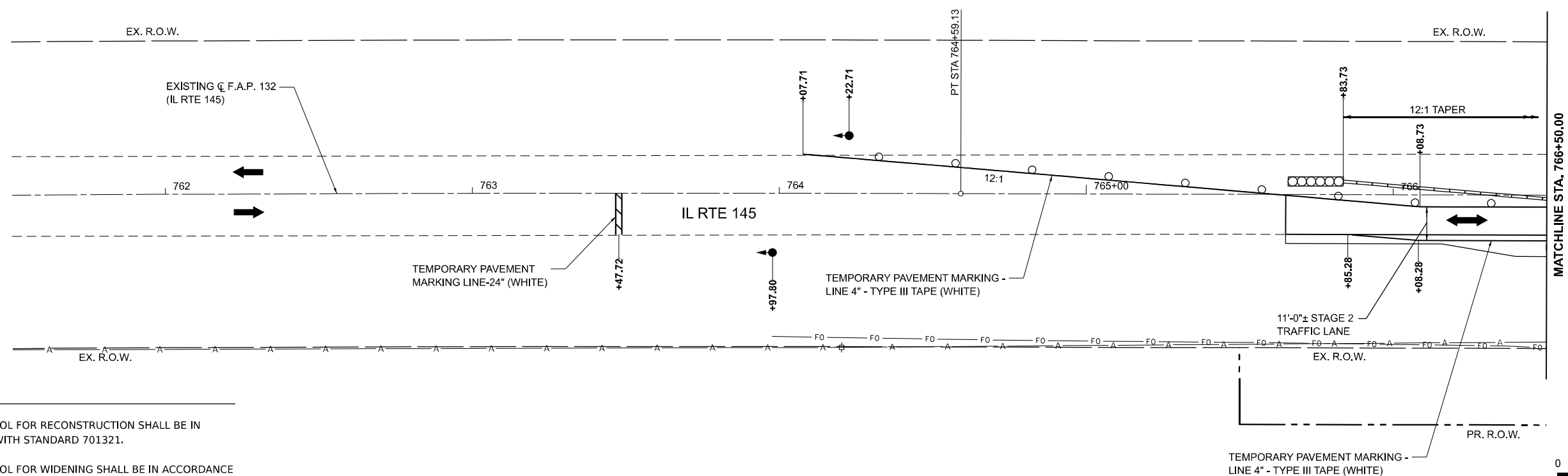


STAGE 2 CONSTRUCTION

N.T.S.

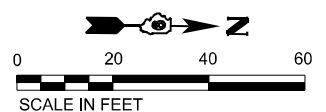
LEGEND

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



NOTES

- TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.
- TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

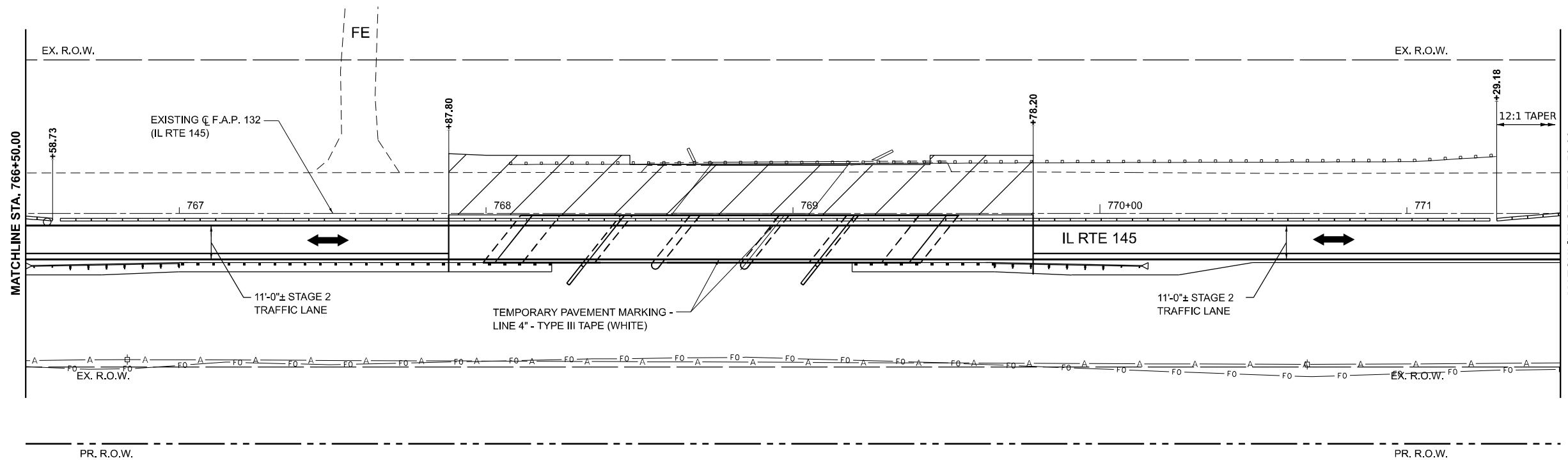
F.A.P. 132 (ILLINOIS ROUTE 145)
MAINTENANCE OF TRAFFIC - STAGE II

SCALE: 1"=20'

SHEET 1 OF 2 SHEETS STA. TO STA.

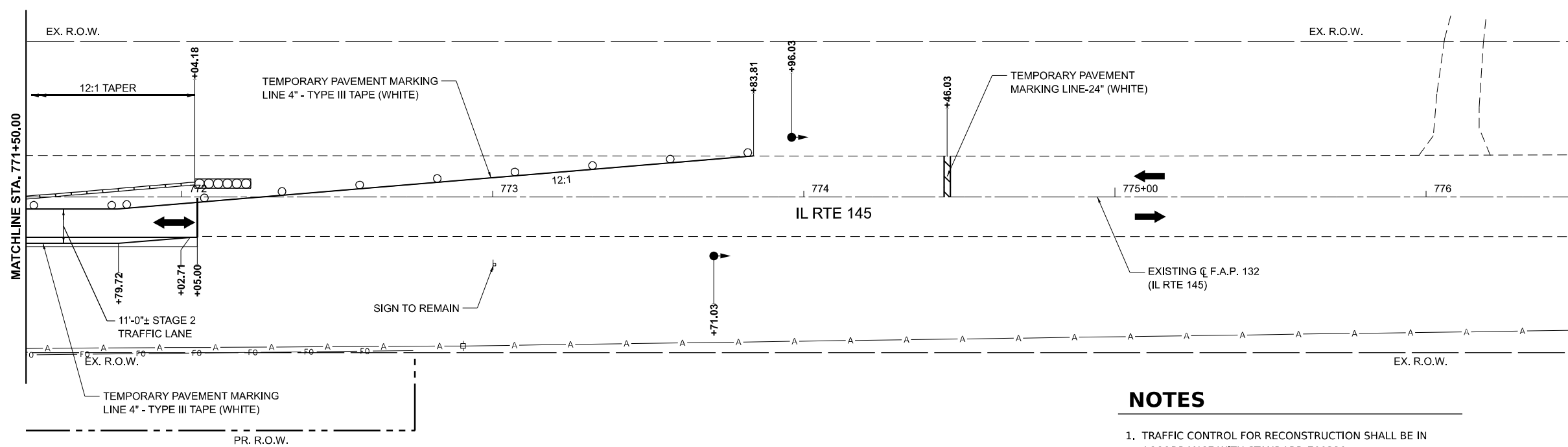
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1038-3	POPE	76	24
CONTRACT NO. 78792				

ILLINOIS FED. AID PROJECT



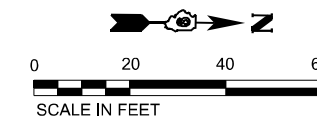
LEGEND

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



NOTES

1. TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.
2. TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.



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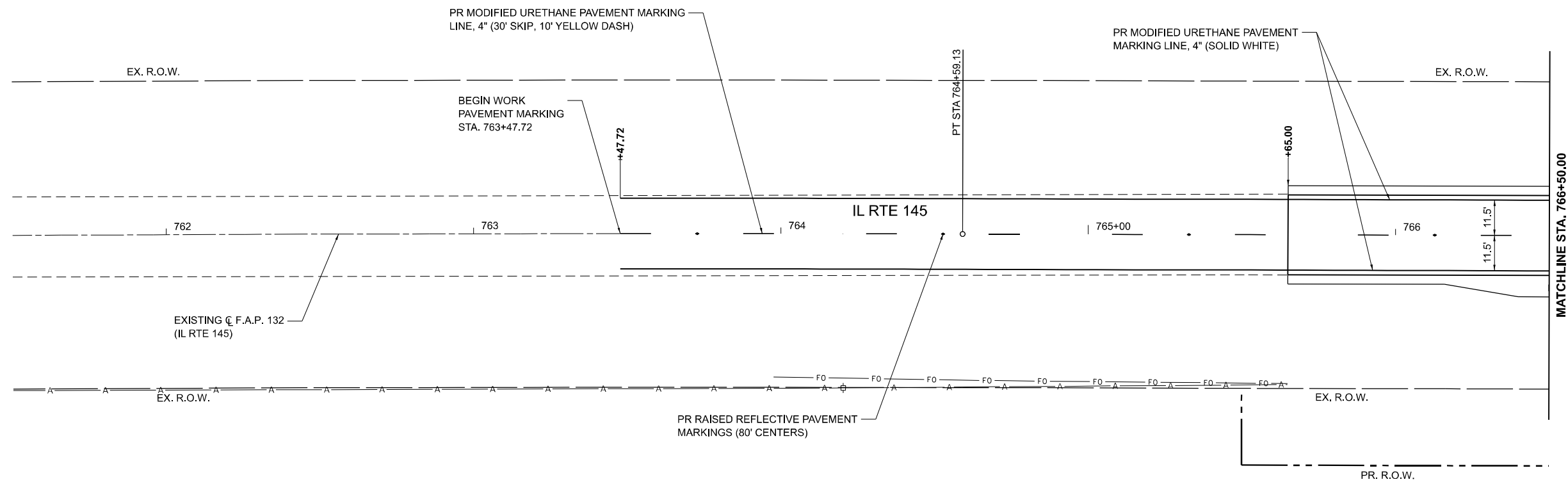
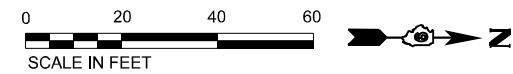
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PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

**F.A.P. 132 (ILLINOIS ROUTE 145)
MAINTENANCE OF TRAFFIC - STAGE II**

F.A.P. RTE. 132	SECTION 1038-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 25
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



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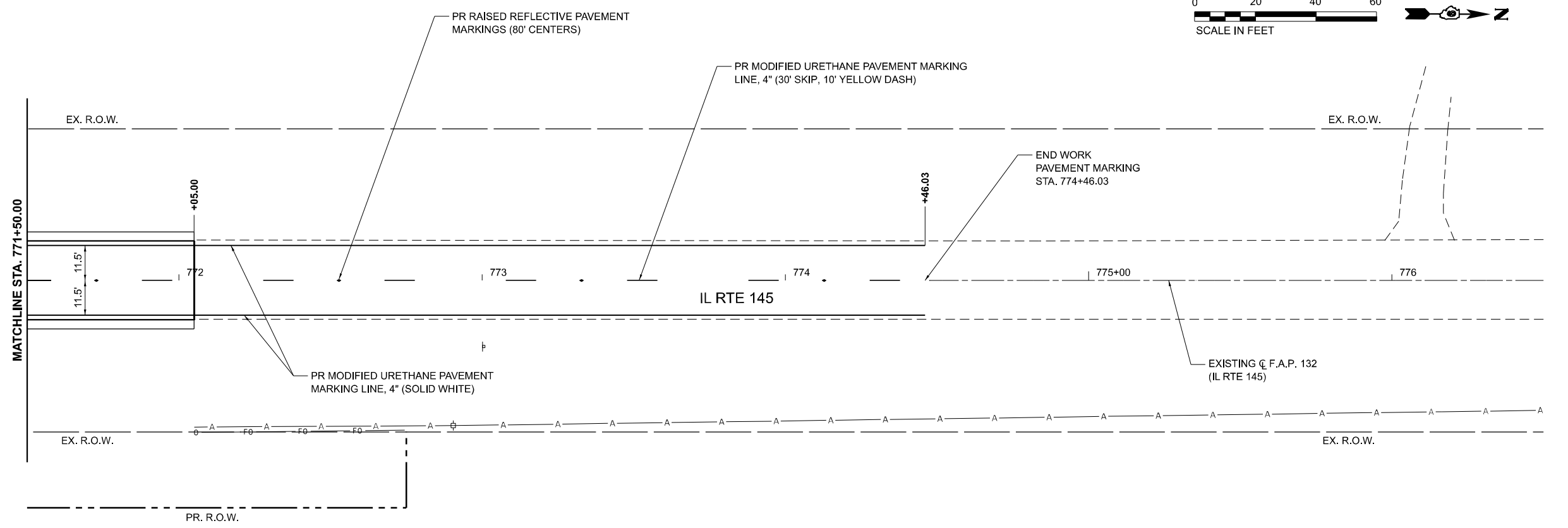
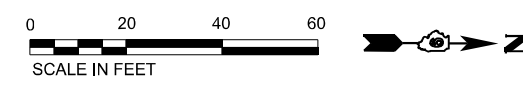
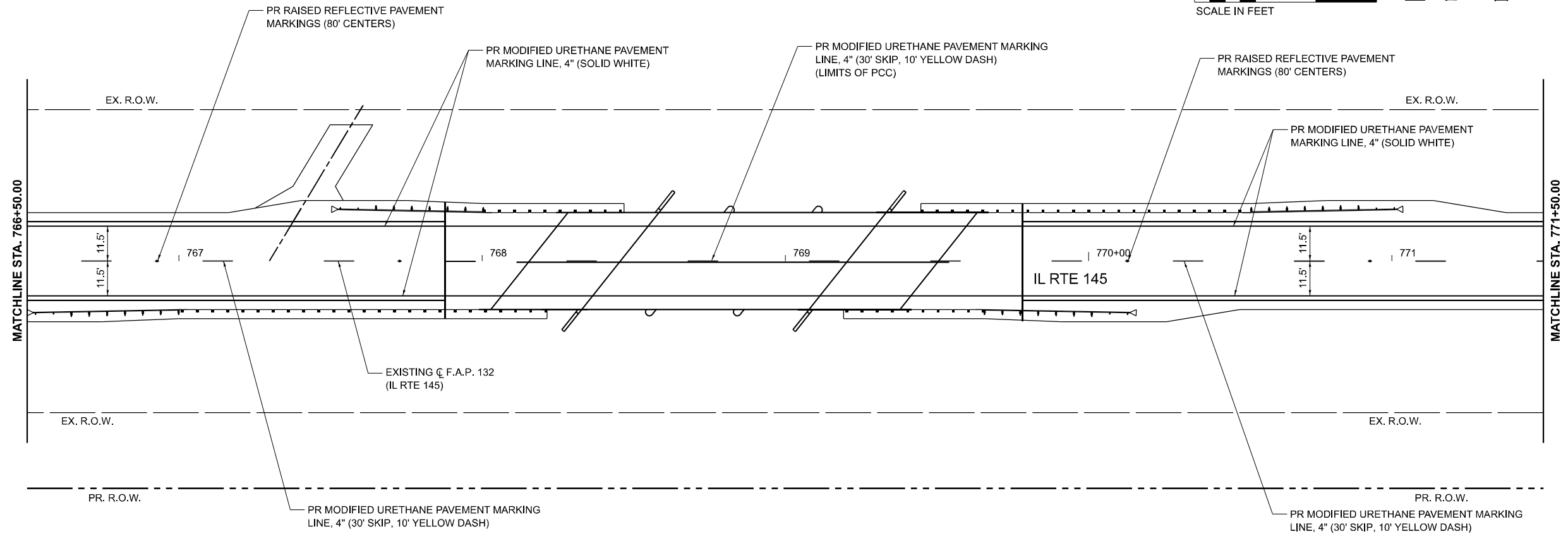
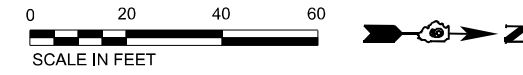
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PLOT DATE = 3/30/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 132 (ILLINOIS ROUTE 145)
PAVEMENT MARKING PLANS

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

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 26
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	



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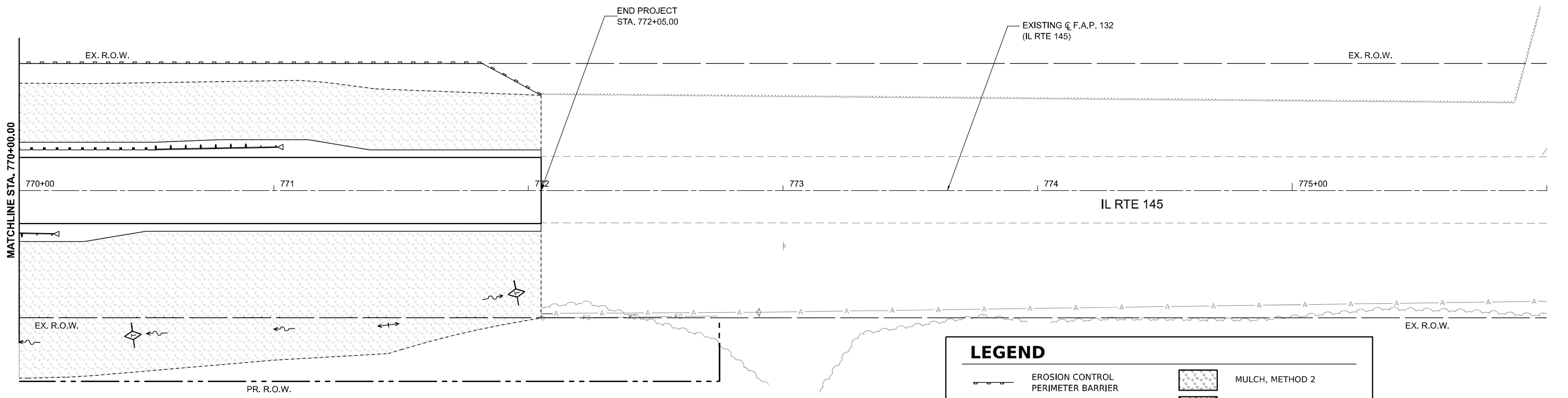
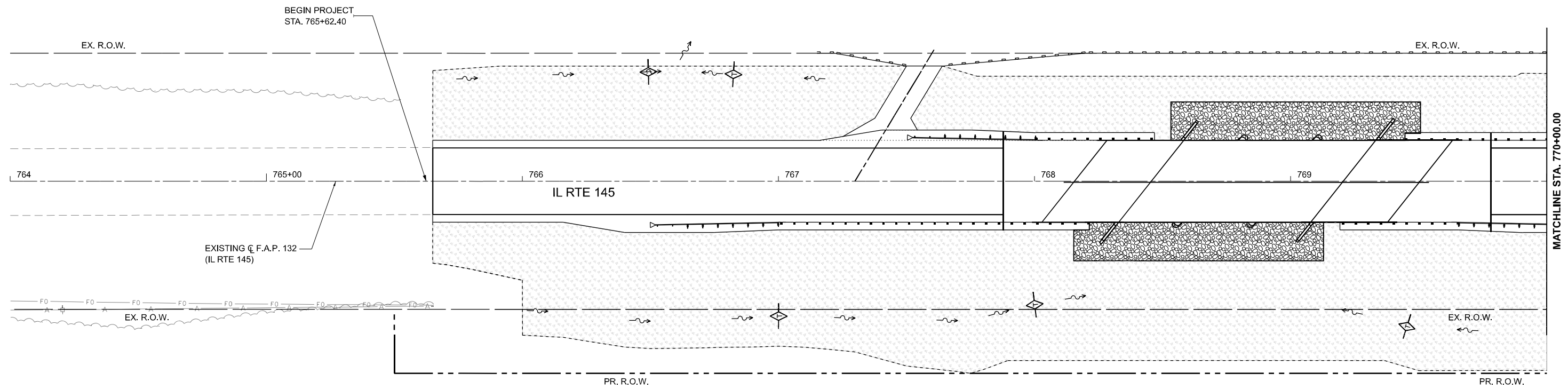
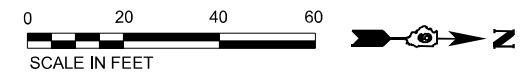
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DRAWN -	REVISED -	
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PLOT DATE = 3/30/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 132 (ILLINOIS ROUTE 145)
PAVEMENT MARKING PLANS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	27
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



LEGEND	
	EROSION CONTROL PERIMETER BARRIER
	LIMITS OF CONSTRUCTION
	MULCH, METHOD 2
	STONE RIPRAP, CLASS A4

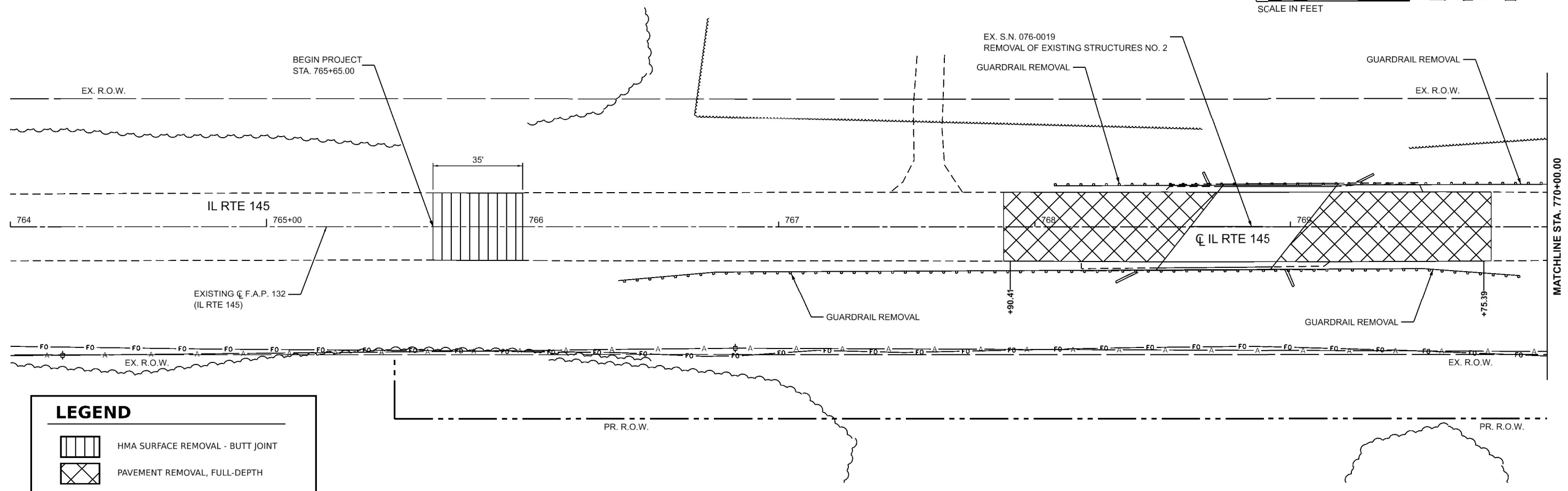
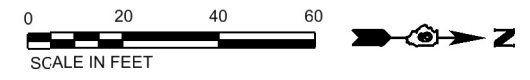
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PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

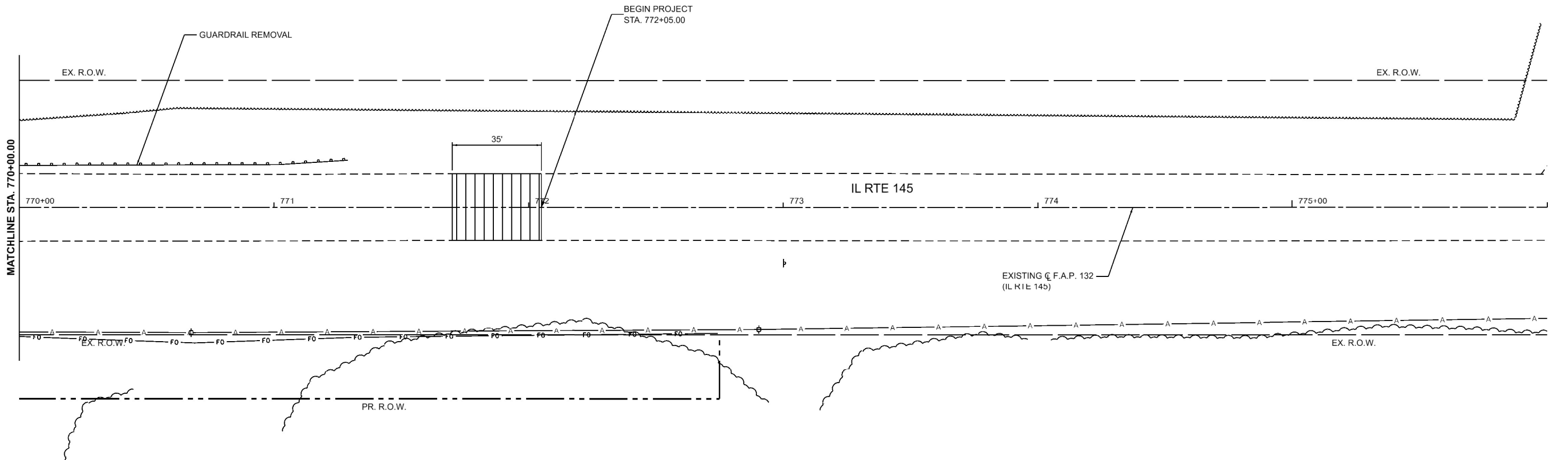
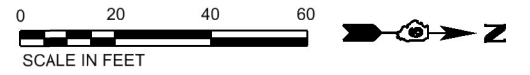
F.A.P. 132 (ILLINOIS ROUTE 145)	
EROSION CONTROL PLANS	
SCALE: 1"=20'	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 28
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



LEGEND

- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL, FULL-DEPTH



MODEL: IL145 - REMOVAL.dwg
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DRAWN -	REVISOR -	
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PLOT DATE = 3/30/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
REMOVAL PLANS**

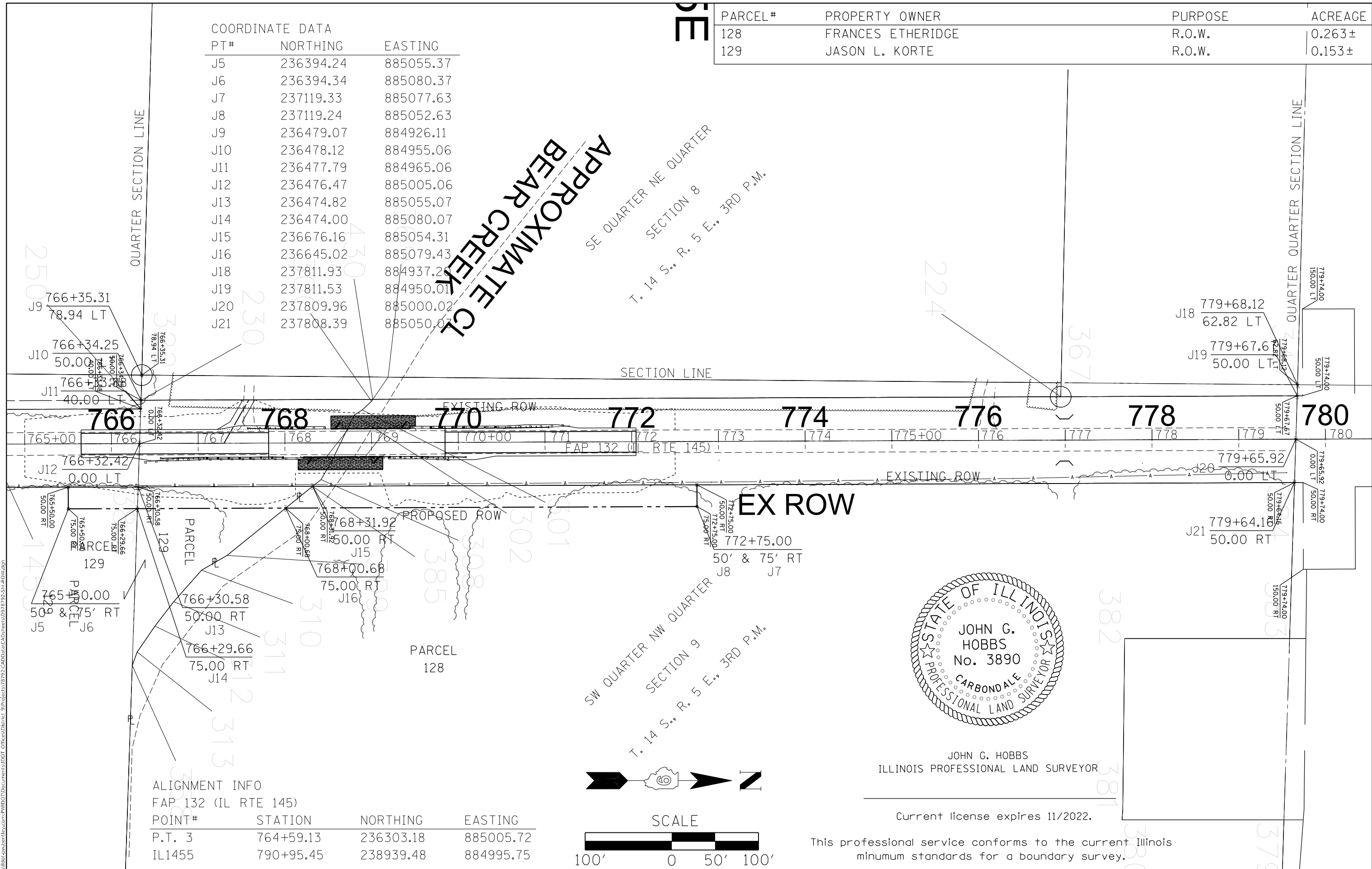
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F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 29
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

PARCEL#	PROPERTY OWNER	PURPOSE	ACREAGE
128	FRANCES ETHERIDGE	R.O.W.	0.263±
129	JASON L. KORTE	R.O.W.	0.153±

COORDINATE DATA

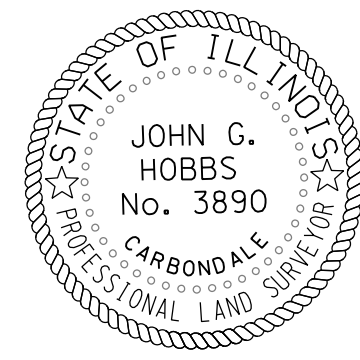
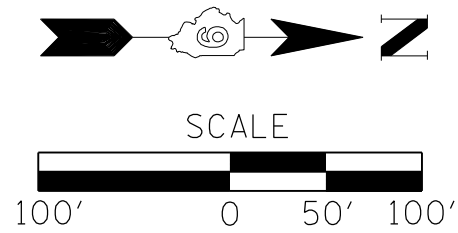
PT#	NORTHING	EASTING
J5	236394.24	885055.37
J6	236394.34	885080.37
J7	237119.33	885077.63
J8	237119.24	885052.63
J9	236479.07	884926.11
J10	236478.12	884955.06
J11	236477.79	884965.06
J12	236476.47	885005.06
J13	236474.82	885055.07
J14	236474.00	885080.07
J15	236676.16	885054.31
J16	236645.02	885079.43
J18	237811.93	884937.29
J19	237811.53	884950.01
J20	237809.96	885000.02
J21	237808.39	885050.07



ALIGNMENT INFO

FAP 132 (IL RTE 145)

POINT#	STATION	NORTHING	EASTING
P.T. 3	764+59.13	236303.18	885005.72
IL1455	790+95.45	238939.48	884995.75



JOHN G. HOBBS
ILLINOIS PROFESSIONAL LAND SURVEYOR

Current license expires 11/2022.

This professional service conforms to the current Illinois minimum standards for a boundary survey.

MODEL: Default
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PLOT DATE = 12/8/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY SHEET
FAP 132 (IL RTE 145) SN076-0019

SCALE: 1" = 100' SHEET 1 OF 1 SHEETS STA. 765+00 TO STA. 780+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE		
SECTION 8 & 9, T. 14 S., R. 5 E.			CONTRACT NO. 78792	
R-99-012-20			ILLINOIS FED. AID PROJECT	

Benchmark: Chisled "□" on top of wingwall of NE corner of Structure 076-0019 along IL Rt. 145, BM 808, Elevation = 354.765'

Existing Structure: SN 076-0019 was originally built in 1934 under Section 103-A. The structure is a single span bridge with closed abutments on untreated timber piles with an overall length of 48'-10" from back to back of abutments. The superstructure consists of a 7" thick slab supported on reinforced concrete t-beams and P.P.C. deck beams. The width of the structure is 33'-2½" out-to-out of the deck. The structure is to be removed and replaced utilizing stage construction.

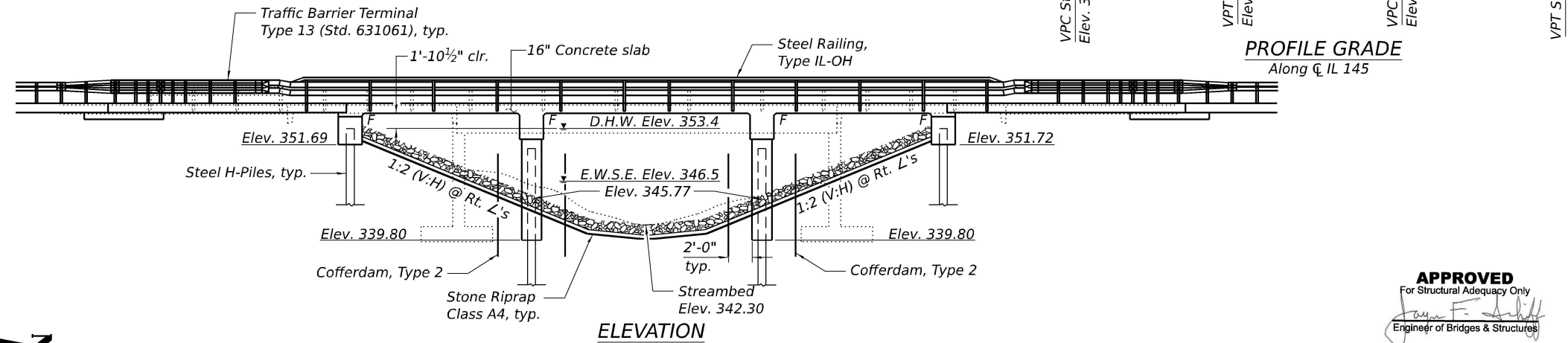
No salvage.

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

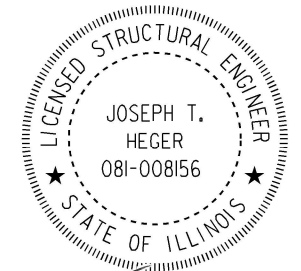
DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications 9th Edition

DESIGN STRESSES
FIELD UNITS
f_c = 4,000 psi (superstructure)
f_c = 3,500 psi (substructure)
f_y = 60,000 psi (reinforcement)

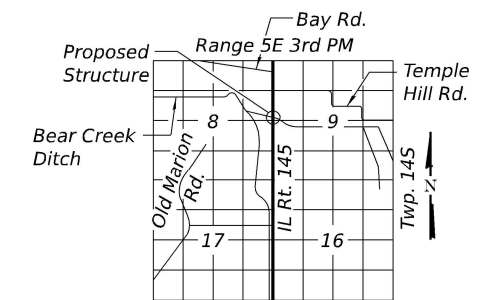
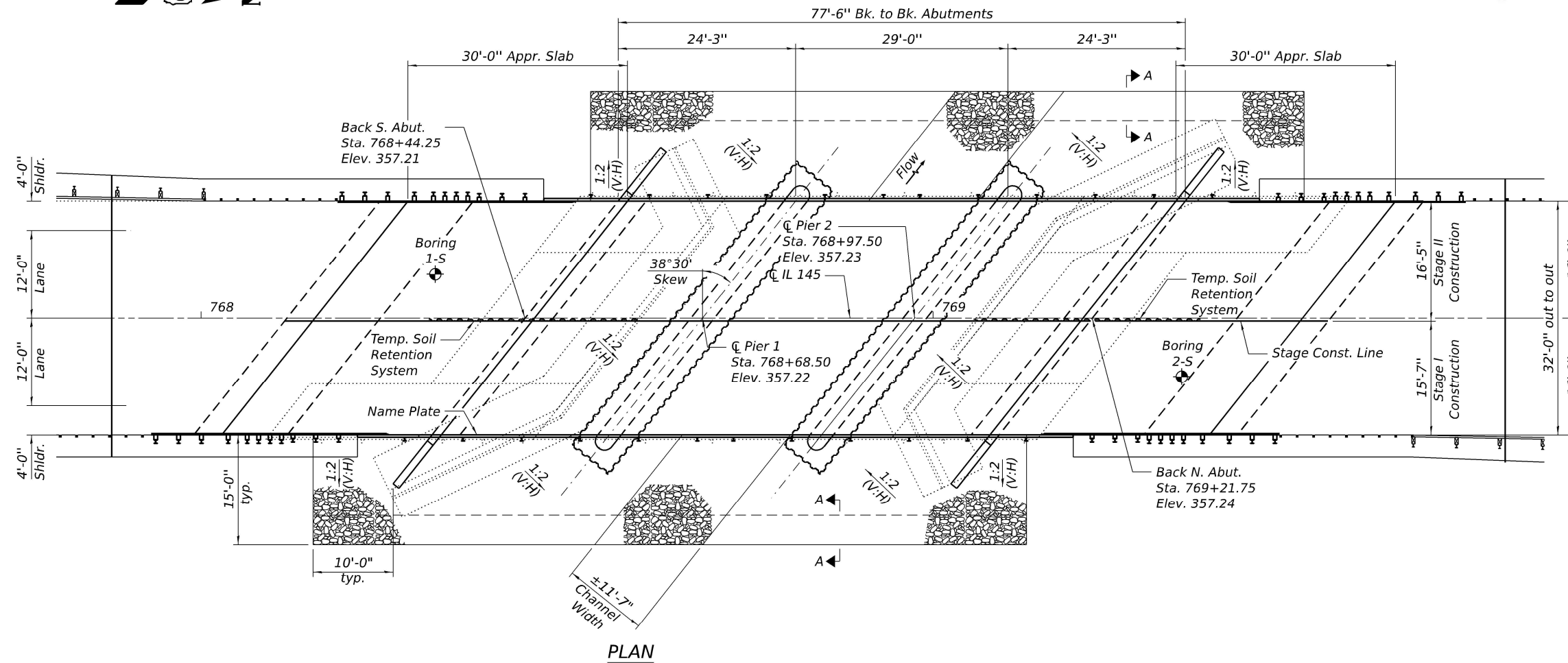
SEISMIC DATA
Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.455g
Design Spectral Acceleration at 0.2 sec. (SDS) = 1.056g
Soil Site Class = D



APPROVED
For Structural Adequacy Only
Joseph T. Heger
Engineer of Bridges & Structures



Joseph T. Heger 4-28-23
Exp. Date 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL 145 OVER BEAR CREEK DITCH
F.A.P. RTE. 132 - SEC. 103B-3
POPE COUNTY
STATION 768+83.00
STRUCTURE NO. 076-0034

MODEL: General Plan and Elevation (Sheet)
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USER NAME = Derek Cochran	DESIGNED - DAC	REVISED -
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PLOT DATE = 4/28/2023	CHECKED - DRC/JTH	REVISED -
	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 076-0034

SCALE: SHEET 1 OF 25 SHEETS STA. TO STA.

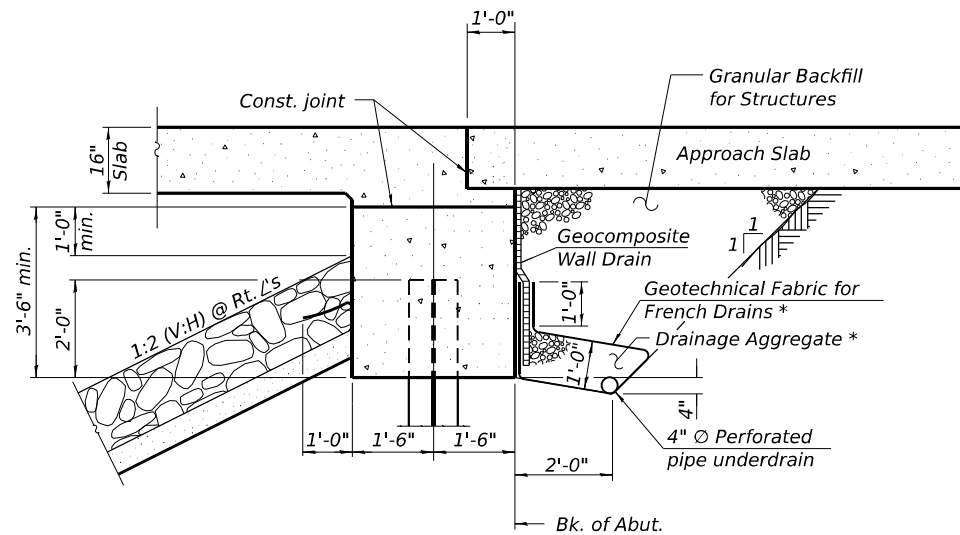
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	31
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

WATERWAY INFORMATION

Drainage Area = 4.5 Sq. Mi.		Existing Overtopping Elevation = 355.20 @ Sta. 762+90 Proposed Overtopping Elevation = 355.20 @ Sta. 762+90							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	832	254	263	352.4	0.5	0.4	352.9	352.8
Design	50	1288	284	310	353.4	0.3	0.2	353.7	353.6
Base	100	1488	284	320	353.6	0.4	0.3	354.0	353.9
Scour Design Check	200	1711	284	345	354.1	0.7	0.4	354.8	354.5
Max. Calc.	500	2016	284	354	354.3	0.7	0.3	355.0	354.6

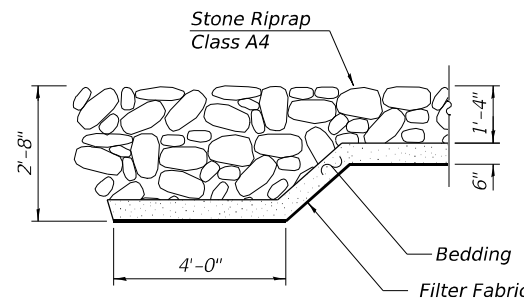
DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
Q100	351.69	331.30	331.30	351.72	5
Q200	351.69	329.30	329.30	351.72	
Design	351.69	331.30	331.30	351.72	
Check	351.69	329.30	329.30	351.72	



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures



SECTION A-A

GENERAL 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.
- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflections. Forms for deck slab shall be removed prior to placement of bridge approach slabs.
- It shall be the Contractor's responsibility to verify the location of utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

INDEX OF SHEETS

- General Plan and Elevation
- General Data
- Stage Construction Details
- Temporary Concrete Barrier
- Temporary Steel Railing
- Top of Slab Elevations - I
- Top of Slab Elevations - II
- Top of South Approach Slab Elevations
- Top of North Approach Slab Elevations
- Superstructure
- Superstructure Details
- 12-15. Steel Railing, Type IL-OH
- Bridge Approach Slab Plan
- Bridge Approach Slab Details
- Abutments
- Piers
- HP Pile Details
- Bar Splicer Assembly and Mechanical Splicer Details
22. Soil Boring and Rock Core Log - I
23. Soil Boring and Rock Core Log - II
24. Soil Boring and Rock Core Log - III
25. Soil Boring and Rock Core Log - IV

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		643	643
Filter Fabric	Sq. Yd.		643	643
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		158	158
Cofferdam Excavation	Cu. Yd.		302	302
Cofferdam (Type 2) (Location - 1)	Each		1	1
Cofferdam (Type 2) (Location - 2)	Each		1	1
Concrete Structures	Cu. Yd.		171.1	171.1
Concrete Superstructure	Cu. Yd.	128.9		128.9
Bridge Deck Grooving	Sq. Yd.	450		450
Protective Coat	Sq. Yd.	479		479
Concrete Superstructure (Approach Slab)	Cu. Yd.	89.3		89.3
Reinforcement Bars, Epoxy Coated	Pound	95,270	13,330	108,600
Bar Splicers	Each	520	170	690
Steel Railing, Type IL-OH	Foot	202		202
Furnishing Steel Piles HP12X63	Foot		2,744	2,744
Driving Piles	Foot		2,744	2,744
Test Pile Steel HP12X63	Each		4	4
Pile Shoes	Each		32	32
Name Plates	Each	1		1
Temporary Soil Retention System	Sq. Ft.		282	282
Granular Backfill for Structures	Cu. Yd.		66	66
Geocomposite Wall Drain	Sq. Yd.		43	43
Pipe Underdrains for Structures 4"	Foot		116	116

STATION 768+83.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 132 - SEC. 103B-3
LOADING HL-93
STRUCTURE NO. 076-0034

NAME PLATE
See Std. 515001

MODEL: General Data (Sheet)
FILE NAME: I:\0712\0661\00\WO_02\Draw\Structures\CADD_Sheet1.dwg



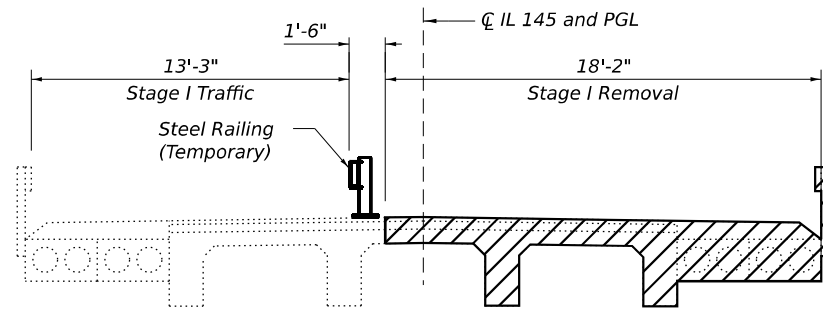
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PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/JTH	REVISED -
	DATE - 2/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

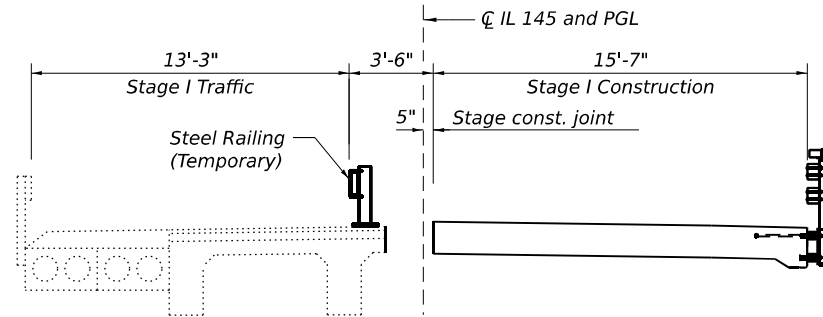
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STRUCTURE NO. 076-0034**

SCALE: SHEET 2 OF 25 SHEETS STA. TO STA.

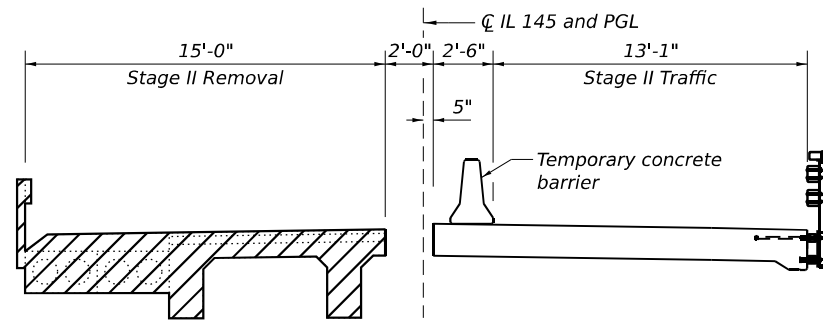
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	32
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



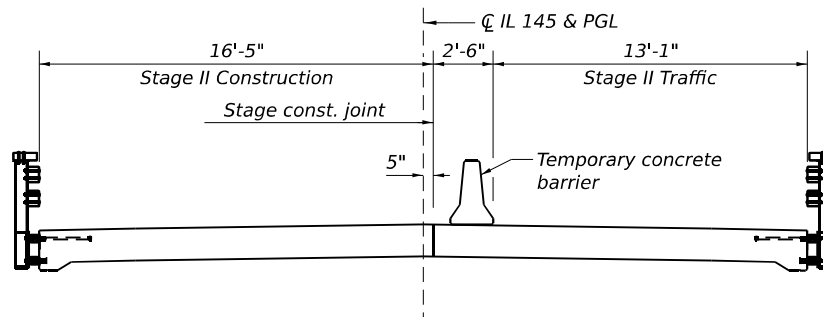
STAGE I REMOVAL
(Looking North)



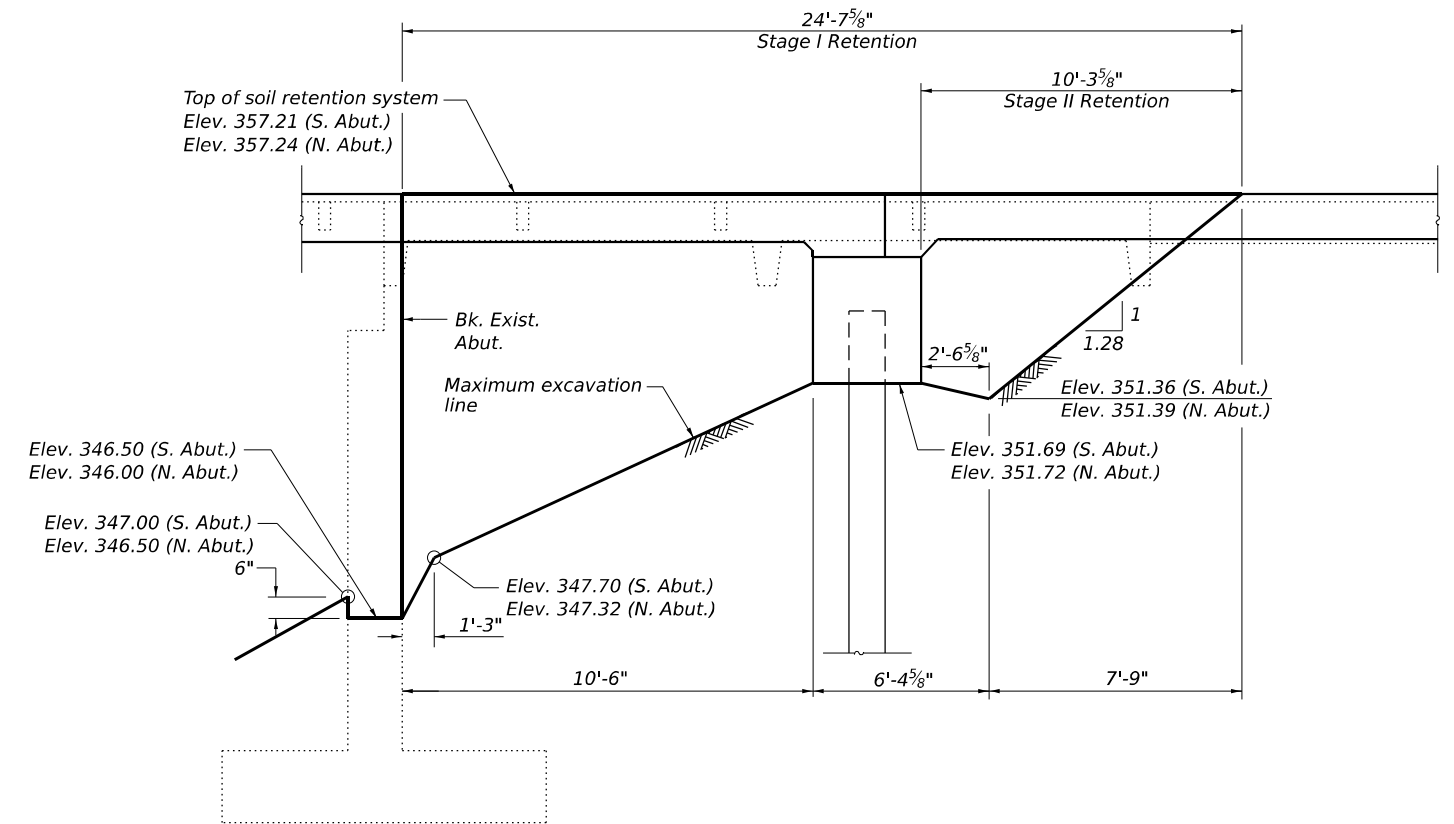
STAGE I CONSTRUCTION
(Looking North)



STAGE II REMOVAL
(Looking North)



STAGE II CONSTRUCTION
(Looking North)



TEMPORARY SOIL RETENTION SYSTEM
(Dimensions parallel to roadway)

- Notes:
1. See Highway Standard 631051 for Steel Railing (Temporary) connections with Temporary Concrete Barrier beyond structure limits.
 2. 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.
 3. For the quantity of Steel Railing (Temporary) and Temporary Concrete Barrier, see roadway staging plan sheets.

MODEL: 003-Civil-Corral (Sheet)
 FILE NAME: L:\P012280691\4-00\W0_02\DrawStructures\CADD_Sheets



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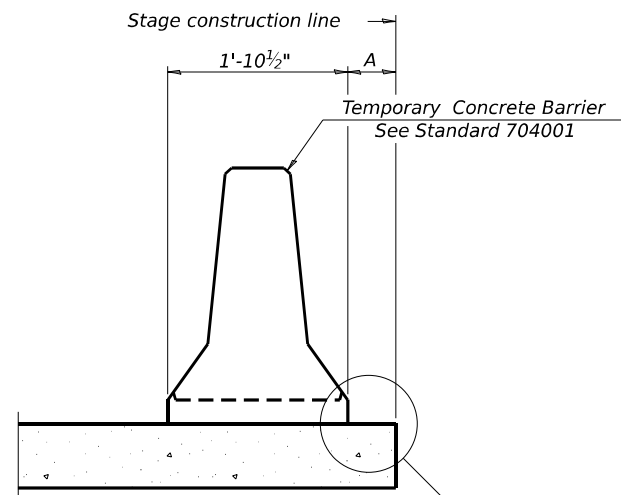
USER NAME = Blake Young	DESIGNED - DAC	REVISED -
PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - JTH	REVISED -
	DATE - 2/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
SUMMARY OF QUANTITIES**

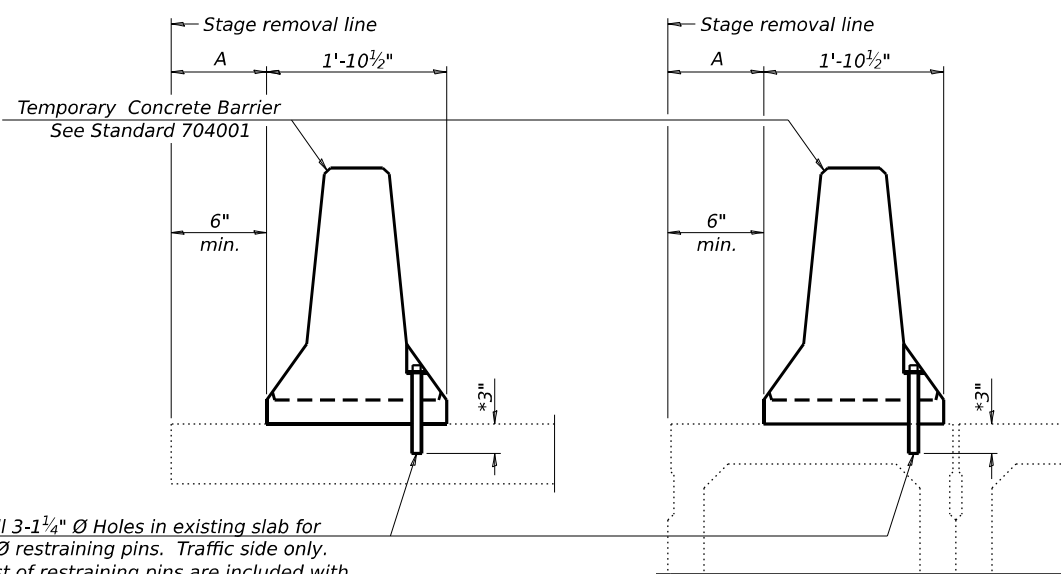
SCALE: SHEET 3 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	33
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



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



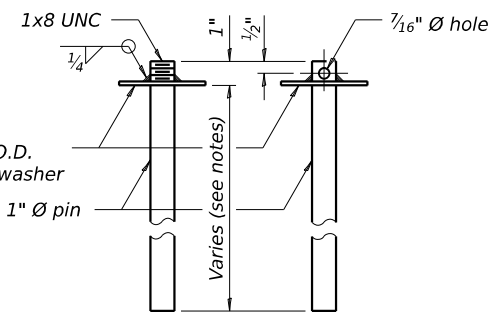
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

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

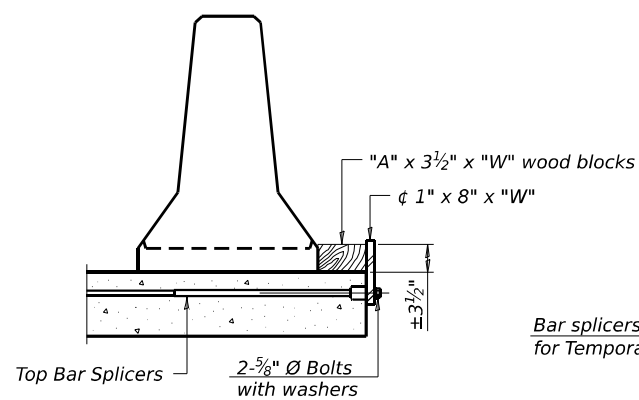
EXISTING SLAB

EXISTING DECK BEAM

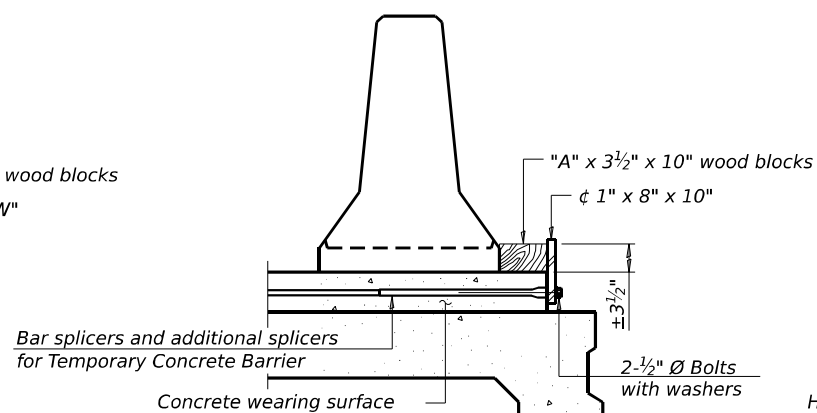
SECTIONS THRU SLAB OR DECK BEAM



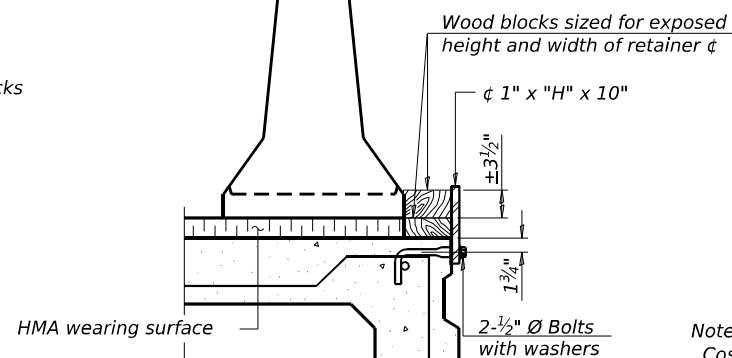
RESTRAINING PIN



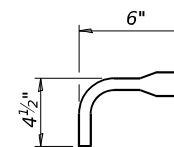
DETAIL I



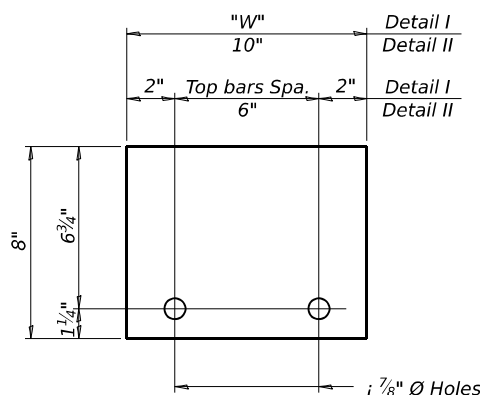
DETAIL II



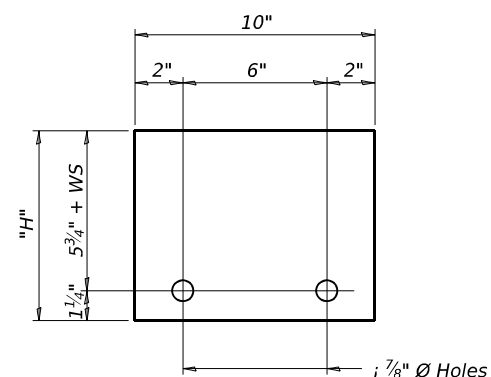
DETAIL III



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 1/3 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 10-12-2021

MODEL: 004_R-27 (Sheet)
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USER NAME	= Blake Young
PLOT SCALE	= N/A
PLOT DATE	= 3/30/2023

DESIGNED	- DAC
DRAWN	- RAH
CHECKED	- DH
DATE	- 2/22/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

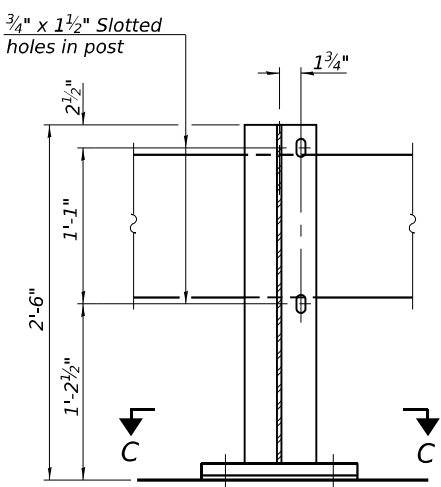
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 076-0034

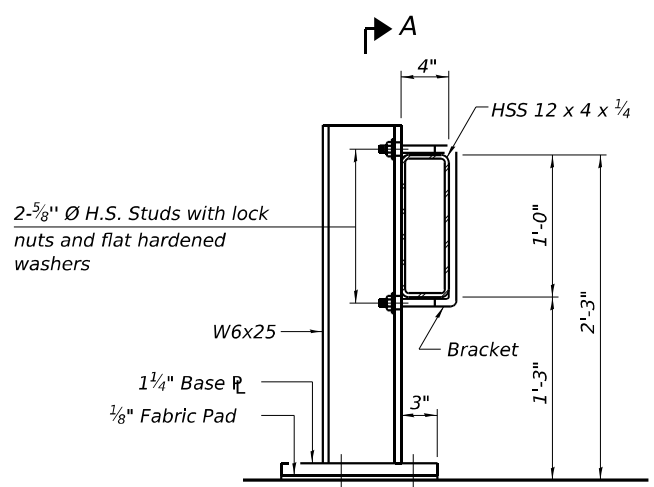
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	34
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

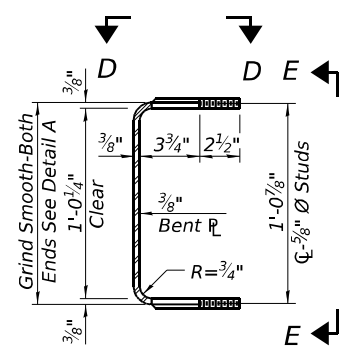
- Notes:
1. The contact surfaces between post flange, rail and inside face of bracket for Alternate I shall be free of all lubricants.
 2. The nut for $\frac{3}{8}$ " \varnothing high strength studs used in Alternate I to connect bracket to post shall be tightened to a snug fit and given an additional one half turn.
 3. All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 4. Rail splice inserts may be built out of 2 $\frac{3}{8}$ " bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
 5. All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



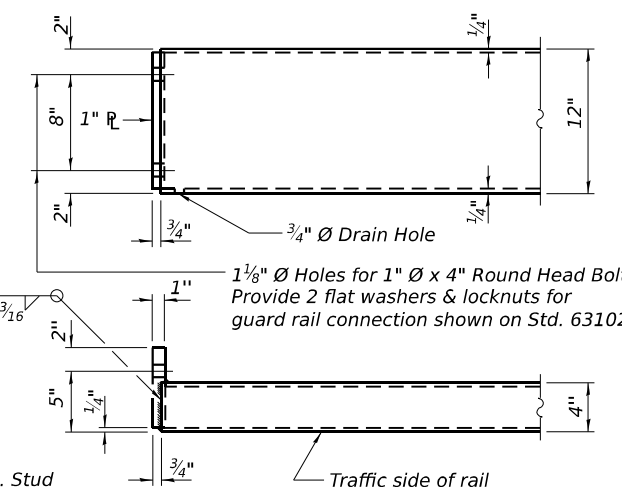
SECTION A-A



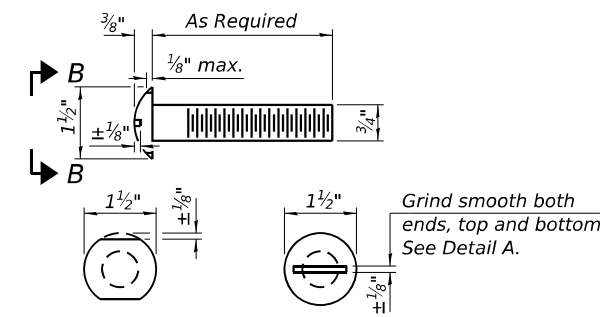
SECTION AT RAIL POST



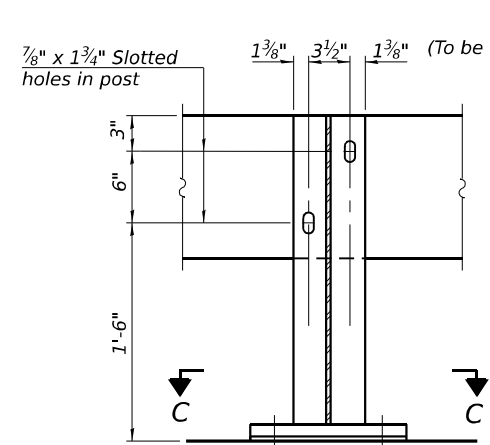
SECTION THRU BRACKET



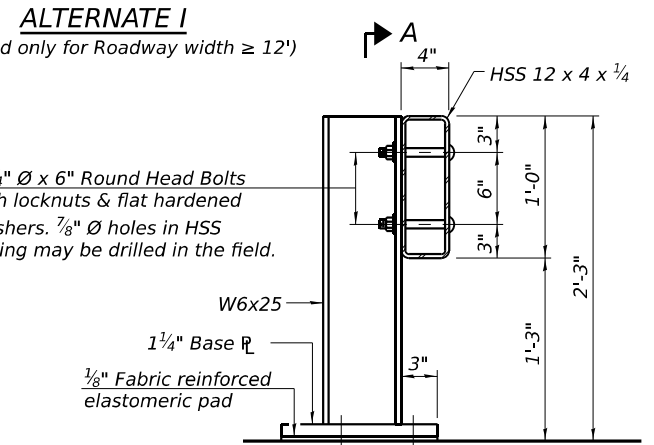
END OF RAIL DETAILS



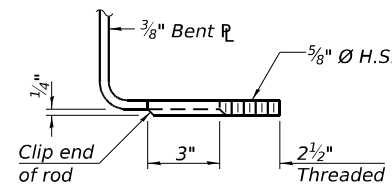
VIEW B-B ROUND HEAD BOLT DETAIL



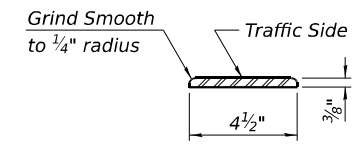
SECTION A-A



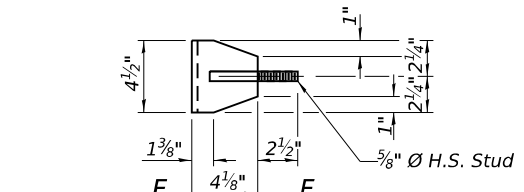
SECTION AT RAIL POST



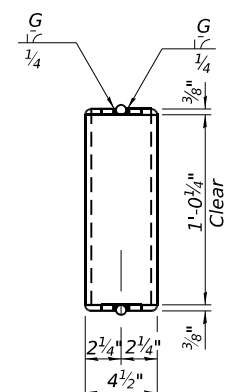
VIEW F-F



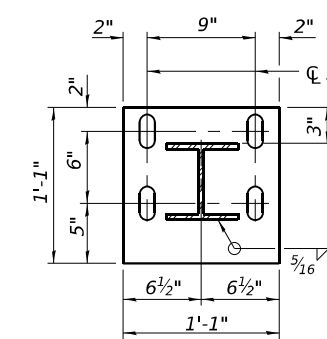
DETAIL A



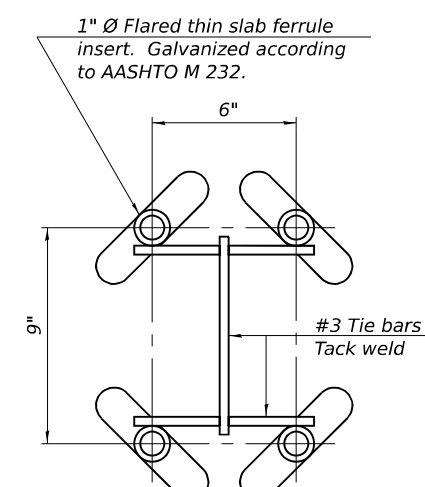
VIEW D-D



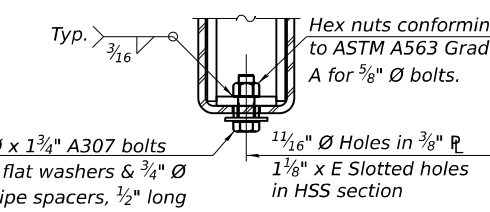
VIEW E-E



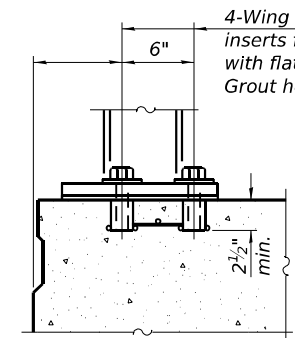
SECTION C-C



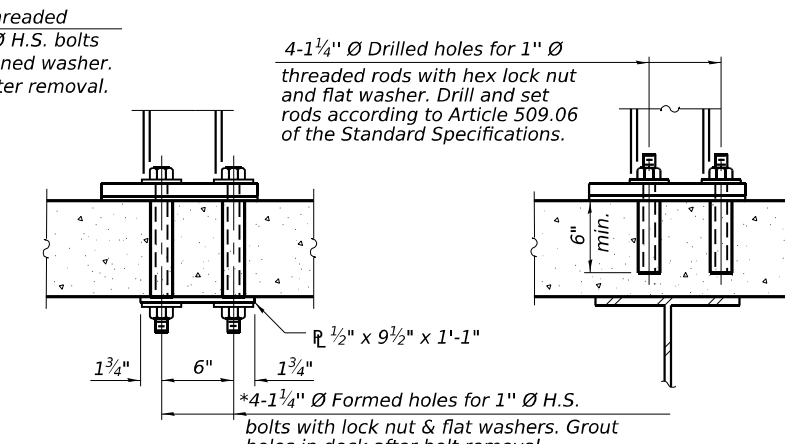
INSERT DETAIL



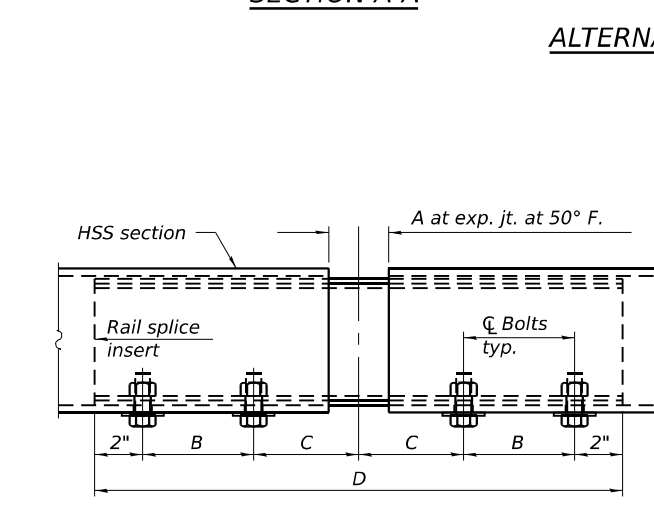
RAIL SPLICE CONNECTION AT EXPANSION JT.



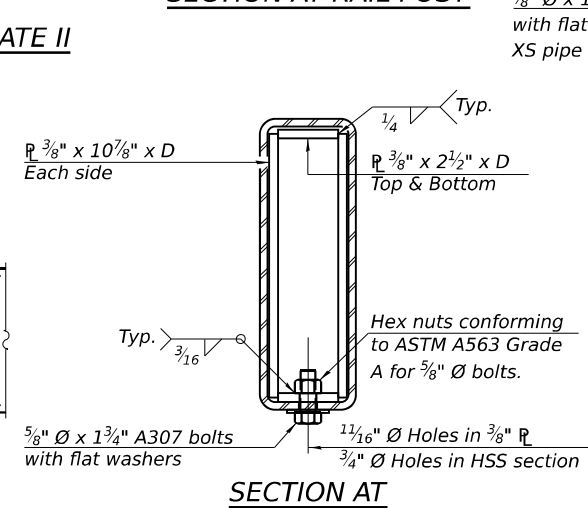
P.P.C. DECK BEAMS



NEW & EXISTING DECKS



RAIL SPLICE ELEVATION



SPLICE DIMENSIONS

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 5/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤15"	8 1/4"	10 1/8"	10"	3'-8 1/4"	8 9/16"

T = total movement along centerline of roadway at expansion joint.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	50
Max Post Spacing	10'-9"

R-25 10-12-2021

USER NAME = Blake Young	DESIGNED - BLH	REVISED -
PLOT SCALE = N/A	DRAWN - BLH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DH	REVISED -
	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE DETAILS
*Drilled holes for existing deck.

TEMPORARY STEEL RAILING
STRUCTURE NO. 076-0034

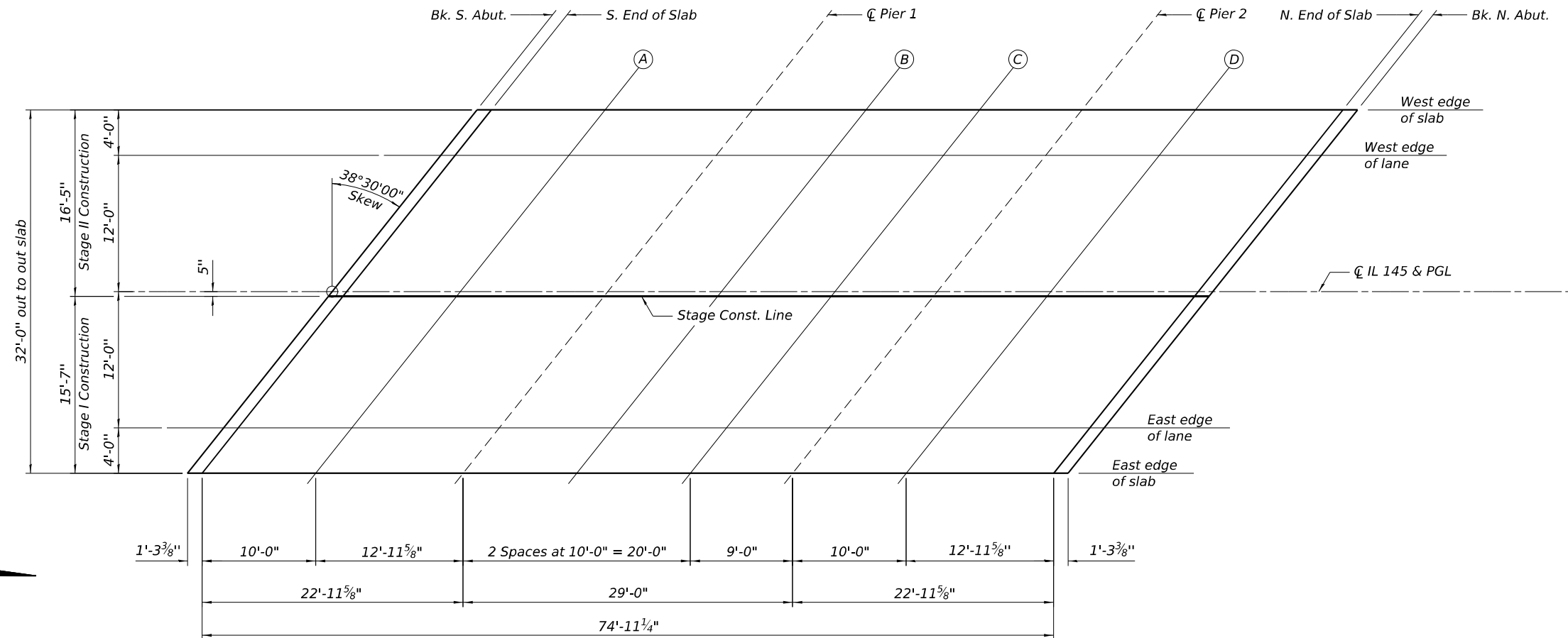
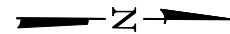
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	35

CONTRACT NO. 78792
ILLINOIS FED. AID PROJECT

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PLAN

MODEL: 006-TOP OF SLAB (Sheet)
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PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 02/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS - I
STRUCTURE NO. 076-0034

SCALE: SHEET 6 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	36
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevation
Bk. S. Abut.	768+56.98	-16.00	356.95
S. End of Slab	768+58.25	-16.00	356.95
A	768+68.25	-16.00	356.96
☉ Pier 1	768+81.23	-16.00	356.96
B	768+91.23	-16.00	356.97
C	768+01.23	-16.00	356.97
☉ Pier 2	768+10.23	-16.00	356.98
D	769+20.23	-16.00	356.98
N. End of Slab	769+33.20	-16.00	356.99
Bk. N. Abut.	769+34.48	-16.00	356.99

WEST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevation
Bk. S. Abut.	768+53.80	-12.00	357.03
S. End of Slab	768+55.07	-12.00	357.03
A	768+65.07	-12.00	357.04
☉ Pier 1	768+78.05	-12.00	357.04
B	768+88.05	-12.00	357.05
C	768+98.05	-12.00	357.05
☉ Pier 2	768+07.05	-12.00	357.05
D	768+17.05	-12.00	357.06
N. End of Slab	768+30.02	-12.00	357.06
Bk. N. Abut.	768+31.30	-12.00	357.07

☉ IL 145 & PGL

Location	Station	Offset	Theoretical Grade Elevation
Bk. S. Abut.	768+44.25	0.00	357.21
S. End of Slab	768+45.53	0.00	357.21
A	768+55.53	0.00	357.21
☉ Pier 1	768+68.50	0.00	357.22
B	768+78.50	0.00	357.22
C	768+88.50	0.00	357.23
☉ Pier 2	768+97.50	0.00	357.23
D	769+07.50	0.00	357.23
N. End of Slab	769+20.47	0.00	357.24
Bk. N. Abut.	769+21.75	0.00	357.24

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevation
Bk. S. Abut.	768+43.92	0.42	357.20
S. End of Slab	768+45.20	0.42	357.20
A	768+55.20	0.42	357.21
☉ Pier 1	768+68.17	0.42	357.21
B	768+78.17	0.42	357.22
C	768+88.17	0.42	357.22
☉ Pier 2	768+97.17	0.42	357.22
D	769+07.17	0.42	357.23
N. End of Slab	769+20.14	0.42	357.23
Bk. N. Abut.	769+21.42	0.42	357.23

EAST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevation
Bk. S. Abut.	768+34.70	12.00	357.02
S. End of Slab	768+35.98	12.00	357.02
A	768+45.98	12.00	357.03
☉ Pier 1	768+58.95	12.00	357.03
B	768+68.95	12.00	357.04
C	768+78.95	12.00	357.04
☉ Pier 2	768+87.95	12.00	357.05
D	768+97.95	12.00	357.05
N. End of Slab	768+10.93	12.00	357.06
Bk. N. Abut.	768+12.20	12.00	357.06

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevation
Bk. S. Abut.	768+31.52	16.00	356.94
S. End of Slab	768+32.80	16.00	356.94
A	768+42.80	16.00	356.95
☉ Pier 1	768+55.77	16.00	356.95
B	768+65.77	16.00	356.96
C	768+75.77	16.00	356.96
☉ Pier 2	768+84.77	16.00	356.96
D	768+94.77	16.00	356.97
N. End of Slab	769+07.75	16.00	356.97
Bk. N. Abut.	769+09.02	16.00	356.98

Note:
The dead load deflections are less than 1/8", therefore, grade elevations adjusted for dead load deflection is not shown.

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PLOT SCALE = N/A	CHECKED - DRC/DH	REVISED -
PLOT DATE = 3/30/2023	DATE - 02/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - II
STRUCTURE NO. 076-0034**

SCALE: SHEET 7 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	37
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevation
S. End of S. Appr. Slab	768+28.25	-16.00	356.94
A	768+38.25	-16.00	356.94
B	768+48.25	-16.00	356.95
N. End of S. Appr. Slab	768+58.25	-16.00	356.95

WEST EDGE OF LANE

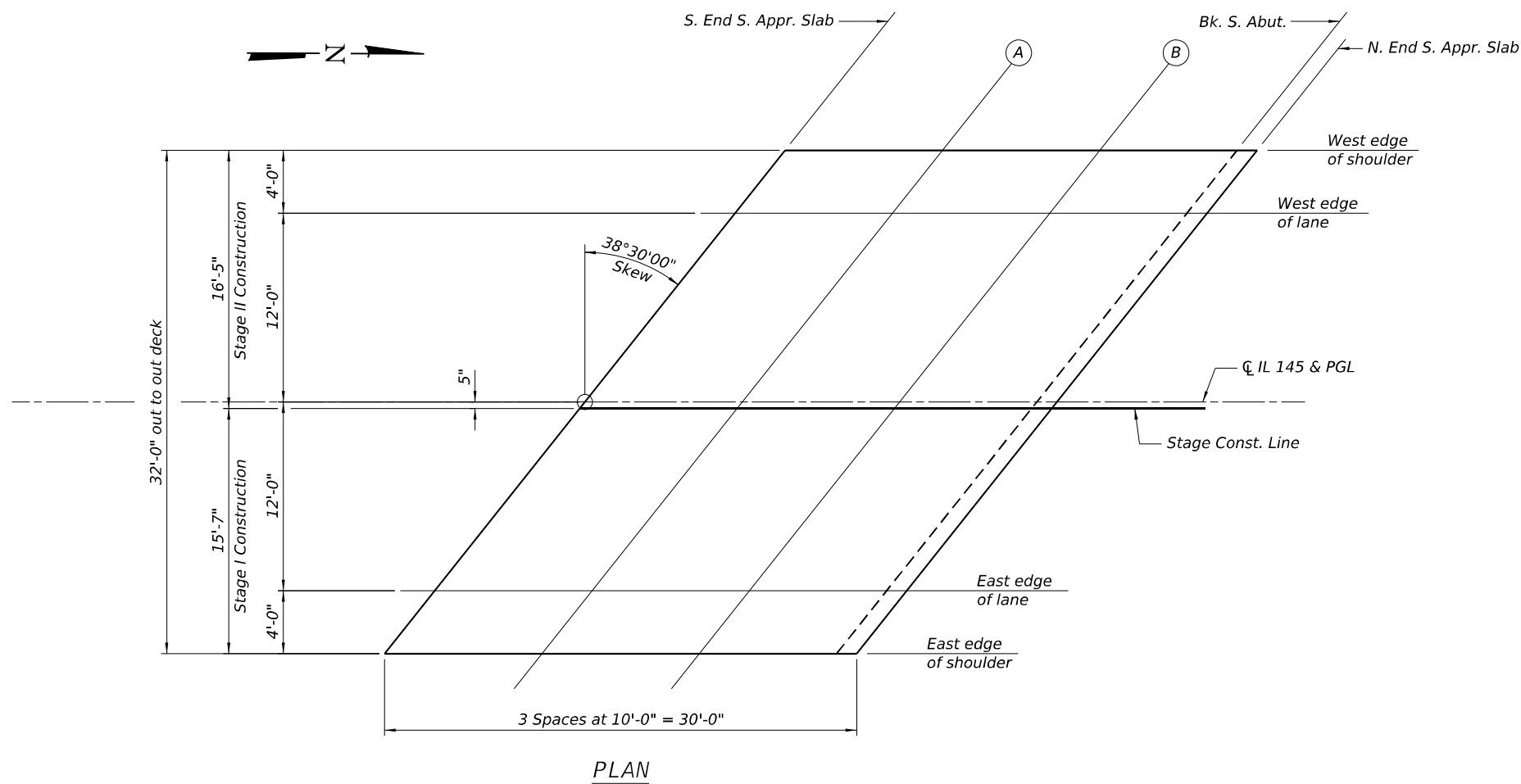
Location	Station	Offset	Theoretical Grade Elevation
S. End of S. Appr. Slab	768+25.07	-12.00	357.02
A	768+35.07	-12.00	357.02
B	768+45.07	-12.00	357.03
N. End of S. Appr. Slab	768+55.07	-12.00	357.03

CL 145 & PGL

Location	Station	Offset	Theoretical Grade Elevation
S. End of S. Appr. Slab	768+15.53	0.00	357.19
A	768+25.53	0.00	357.20
B	768+35.53	0.00	357.20
N. End of S. Appr. Slab	768+45.53	0.00	357.21

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevation
S. End of S. Appr. Slab	768+15.20	0.42	357.19
A	768+25.20	0.42	357.19
B	768+35.20	0.42	357.20
N. End of S. Appr. Slab	768+45.20	0.42	357.20



EAST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevation
S. End of S. Appr. Slab	768+05.98	12.00	357.01
A	768+15.98	12.00	357.01
B	768+25.98	12.00	357.02
N. End of S. Appr. Slab	768+35.98	12.00	357.02

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevation
S. End of S. Appr. Slab	768+02.80	16.00	356.93
A	768+12.80	16.00	356.93
B	768+22.80	16.00	356.94
N. End of S. Appr. Slab	768+32.80	16.00	356.94

MODEL: 0072\Facility\Map1 (Sheet)
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USER NAME = Blake Young	DESIGNED - DAC	REVISED -
PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 02/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 076-0034

SCALE: SHEET 8 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	38
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevation
S. End of N. Appr. Slab	769+33.20	-16.00	356.99
C	769+43.20	-16.00	356.99
D	769+53.20	-16.00	356.99
N. End of N. Appr. Slab	769+63.20	-16.00	357.00

WEST EDGE OF LANE

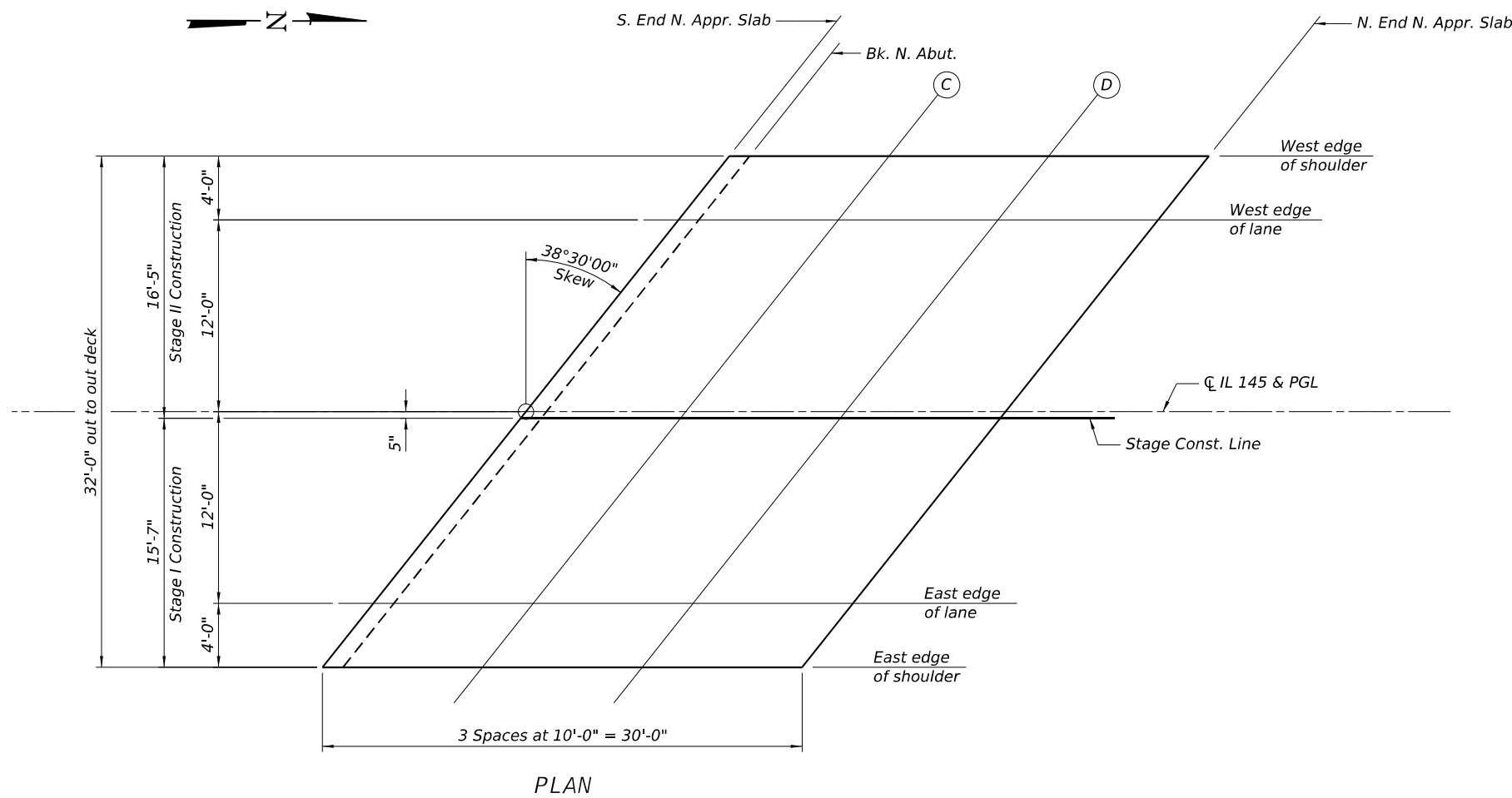
Location	Station	Offset	Theoretical Grade Elevation
S. End of N. Appr. Slab	769+30.02	-12.00	357.06
C	769+40.02	-12.00	357.07
D	769+50.02	-12.00	357.07
N. End of N. Appr. Slab	769+60.02	-12.00	357.08

CL IL 145 & PGL

Location	Station	Offset	Theoretical Grade Elevation
S. End of N. Appr. Slab	769+20.47	0.00	357.24
C	769+30.47	0.00	357.24
D	769+40.47	0.00	357.25
N. End of N. Appr. Slab	769+50.47	0.00	357.25

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevation
S. End of N. Appr. Slab	769+20.14	0.42	357.23
C	769+30.14	0.42	357.24
D	769+40.14	0.42	357.24
N. End of N. Appr. Slab	769+50.14	0.42	357.25



EAST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevation
S. End of N. Appr. Slab	769+10.92	12.00	357.06
C	769+20.92	12.00	357.06
D	769+30.92	12.00	357.07
N. End of N. Appr. Slab	769+40.92	12.00	357.07

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevation
S. End of N. Appr. Slab	769+07.74	16.00	356.97
C	769+17.74	16.00	356.98
D	769+27.74	16.00	356.98
N. End of N. Appr. Slab	769+37.74	16.00	356.99

MODEL: 090-TenNorth (Sheet) (Sheet)
 FILE NAME: L:\012206613-01\02\DrawStructures\CADD_Sheet1.dwg



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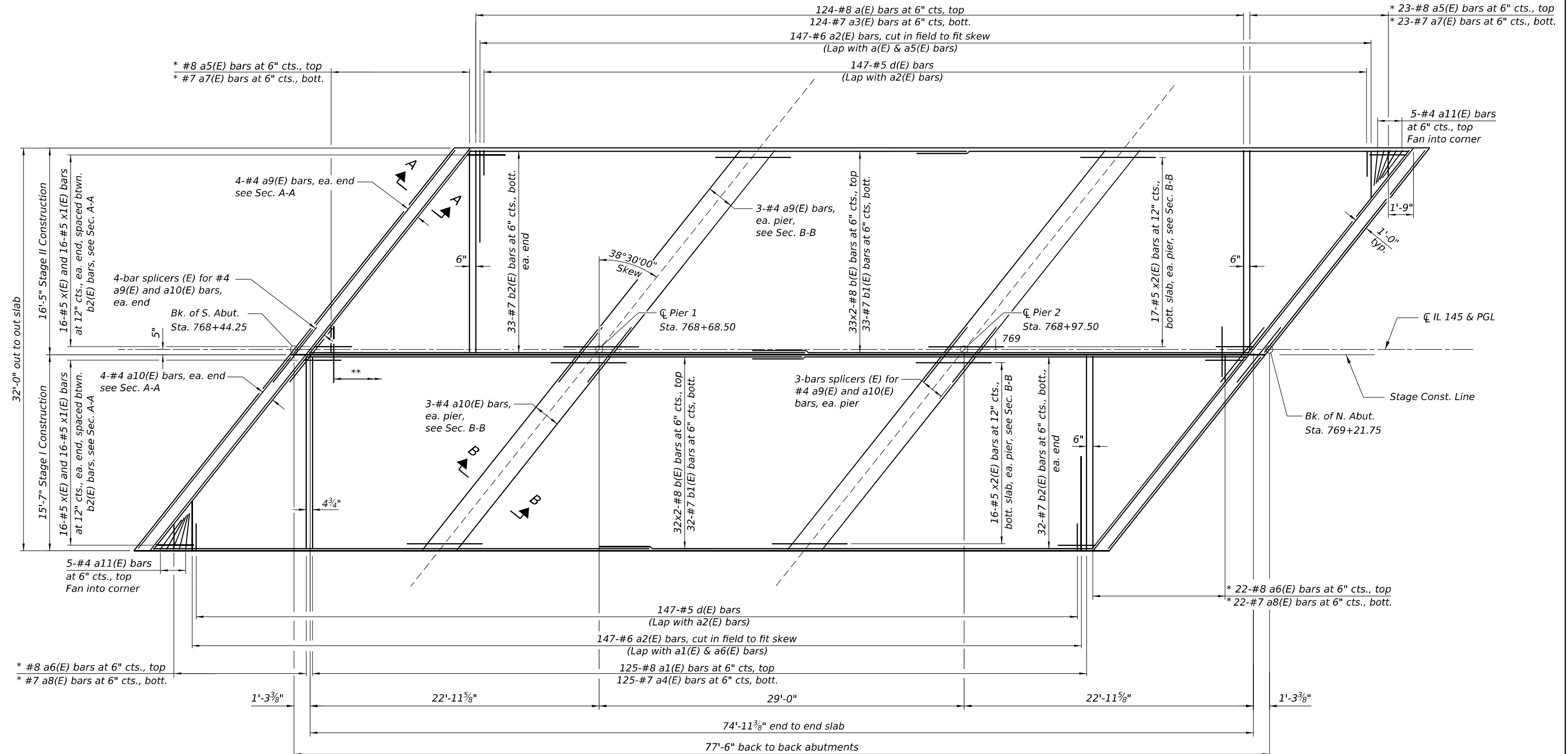
USER NAME = Blake Young	DESIGNED - DAC	REVISED -
PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 02/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 076-0034

SCALE: SHEET 9 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	39
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP

#8 bar = 5'-4"
#7 bar = 6'-3"

PLAN

- * See sheet 11 of 25 for field cutting diagram.
- ** 147-bar splicers (E) for #8 a(E), a1(E), and a6(E) bars, top
147-bar splicers (E) for #7 a3(E), a4(E), and a8(E) bars, bottom

- Notes:
1. See sheet 11 of 25 for superstructure details and Bill of Material.
 2. See sheet 11 of 25 for sections A-A and B-B.

MODEL: 00p-01-Structures (Sheet)
 FILE NAME: L:\01\01220661\0-01\01\DrawStructures\CADD_Sheet1.dwg



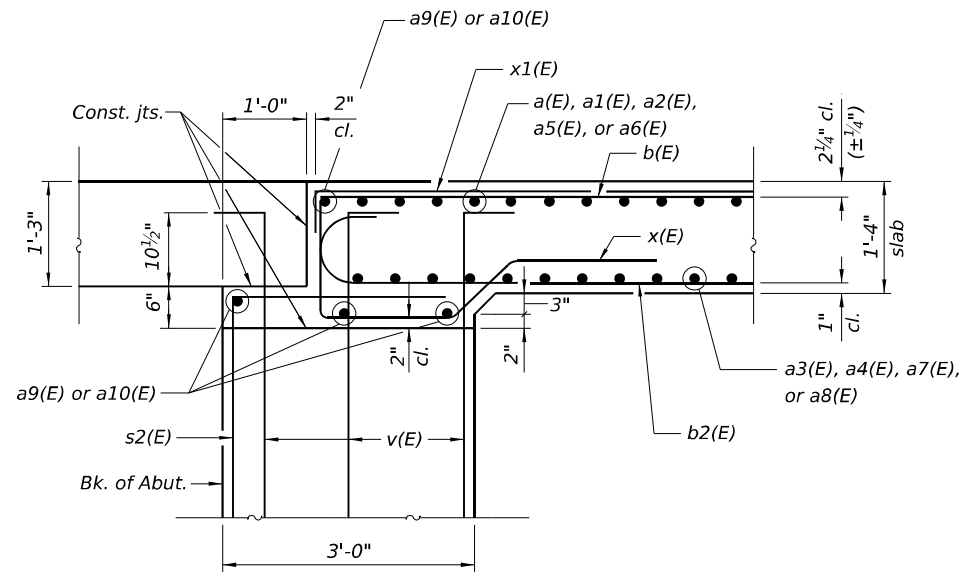
USER NAME = Blake Young	DESIGNED - DAC	REVISED -
PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 2/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE
STRUCTURE NO. 076-0034**

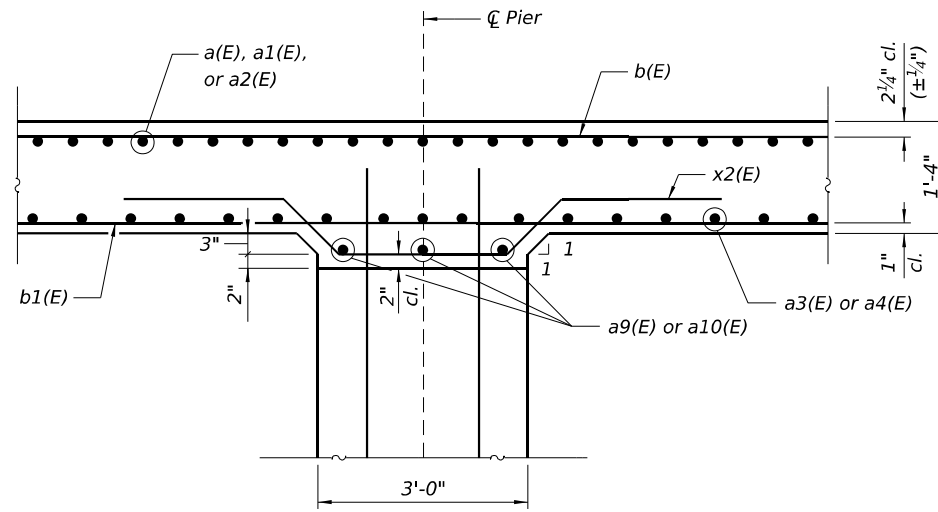
SCALE: SHEET 10 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	40
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



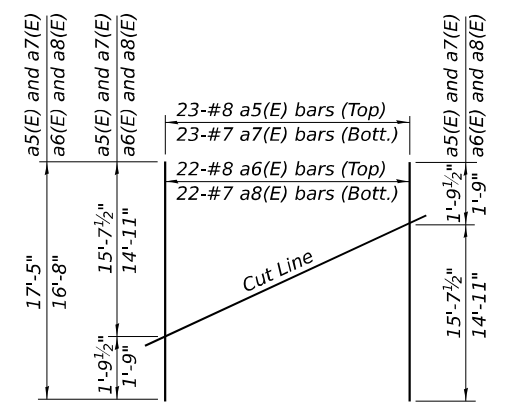
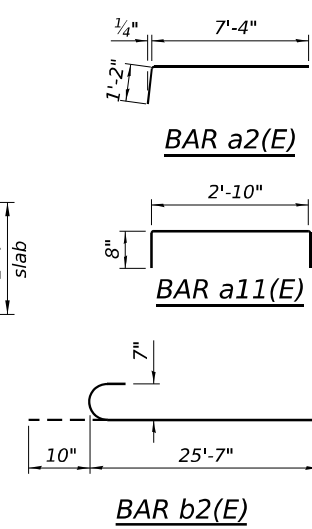
SECTION A-A

Horizontal dimensions at Rt. L's to abutments.

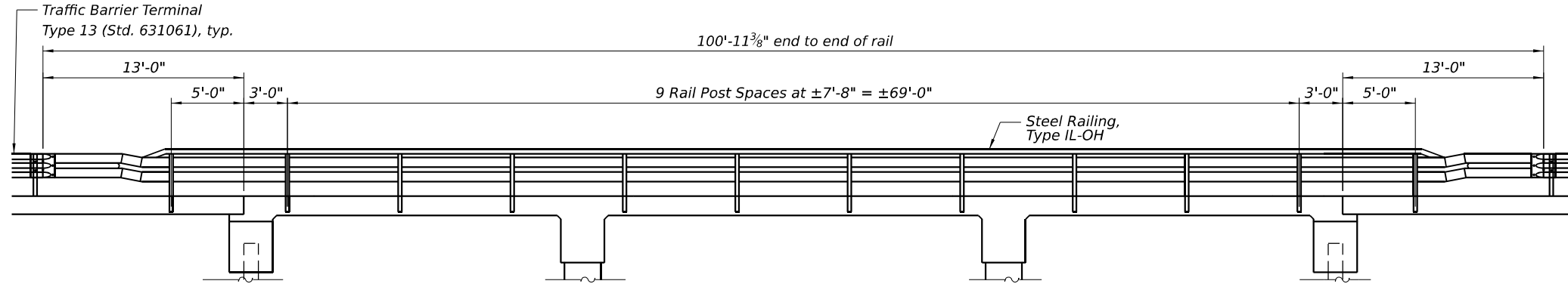


SECTION B-B

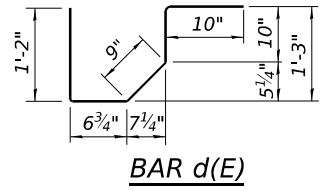
Horizontal dimensions at Rt. L's to piers



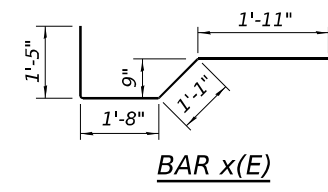
FIELD CUTTING DIAGRAM
Order bars full length. Cut as shown and use remainder of bars as shown on sheet 10 of 25.



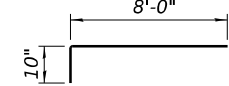
RAILING ELEVATION
(Showing Rail Post Spaces)



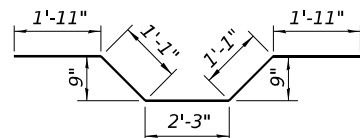
BAR d(E)



BAR x(E)

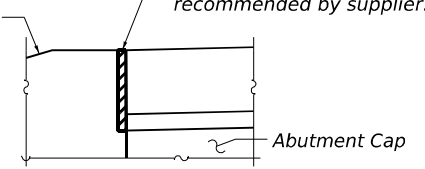


BAR x1(E)



BAR x2(E)

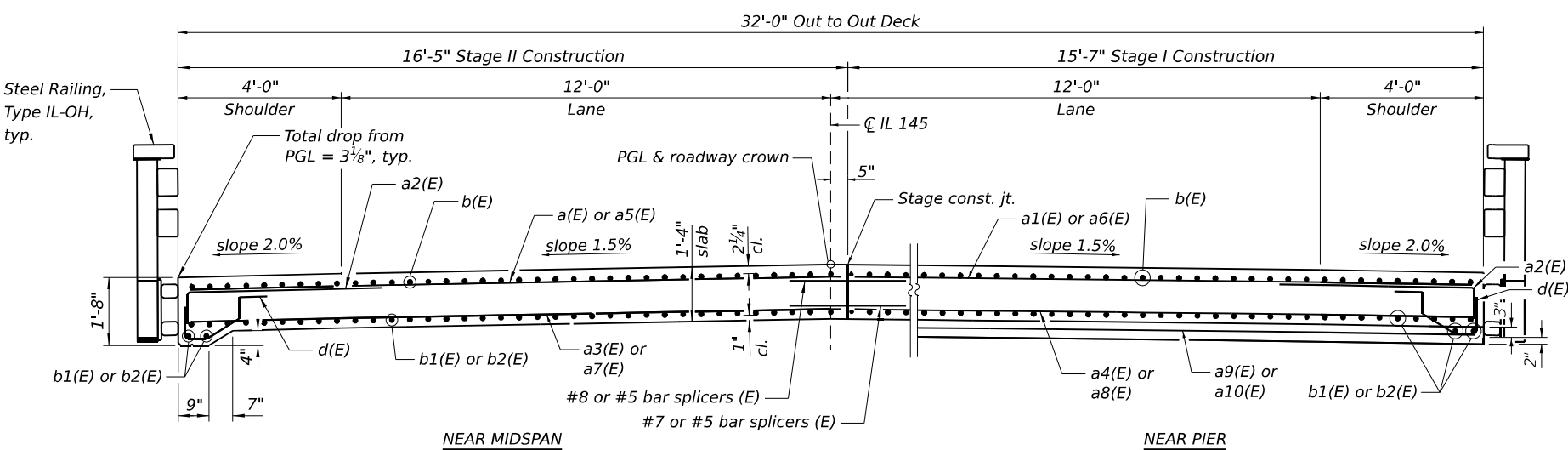
2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wingwall with suitable adhesive as recommended by supplier.



2" PJF DETAIL

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	124	#8	16'-1"	—
a1(E)	125	#8	15'-3"	—
a2(E)	294	#6	8'-6"	—
a3(E)	124	#7	16'-1"	—
a4(E)	125	#7	15'-3"	—
a5(E)	23	#8	17'-5"	—
a6(E)	22	#8	16'-8"	—
a7(E)	23	#7	17'-5"	—
a8(E)	22	#7	16'-8"	—
a9(E)	14	#4	20'-7"	—
a10(E)	14	#4	19'-6"	—
a11(E)	10	#4	4'-2"	—
b(E)	130	#8	40'-0"	—
b1(E)	65	#7	36'-0"	—
b2(E)	130	#7	26'-5"	—
d(E)	294	#5	4'-2"	—
x(E)	64	#5	6'-1"	—
x1(E)	64	#5	8'-10"	—
x2(E)	66	#5	8'-3"	—
Concrete Superstructure		Cu. Yds.	128.9	
Bridge Deck Grooving		Sq. Yd.	250	
Protective Coat		Sq. Yd.	266	
Reinforcement Bars, Epoxy Coated		Lbs.	54,690	



CROSS SECTION
(Looking North)

NEAR MIDSPAN

NEAR PIER

MODEL: 01-D:\c:\structures\Draws\11\Sheet1
FILE NAME: L:\P01220661\04\01\W02\Draw\Structures\CADD_Sheet1.dwg



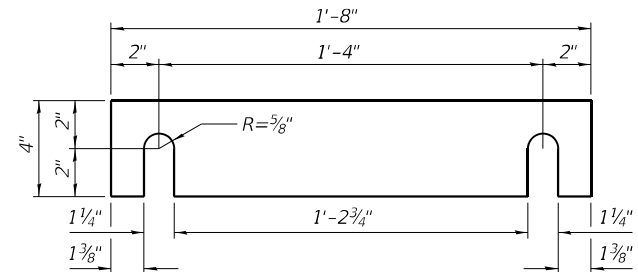
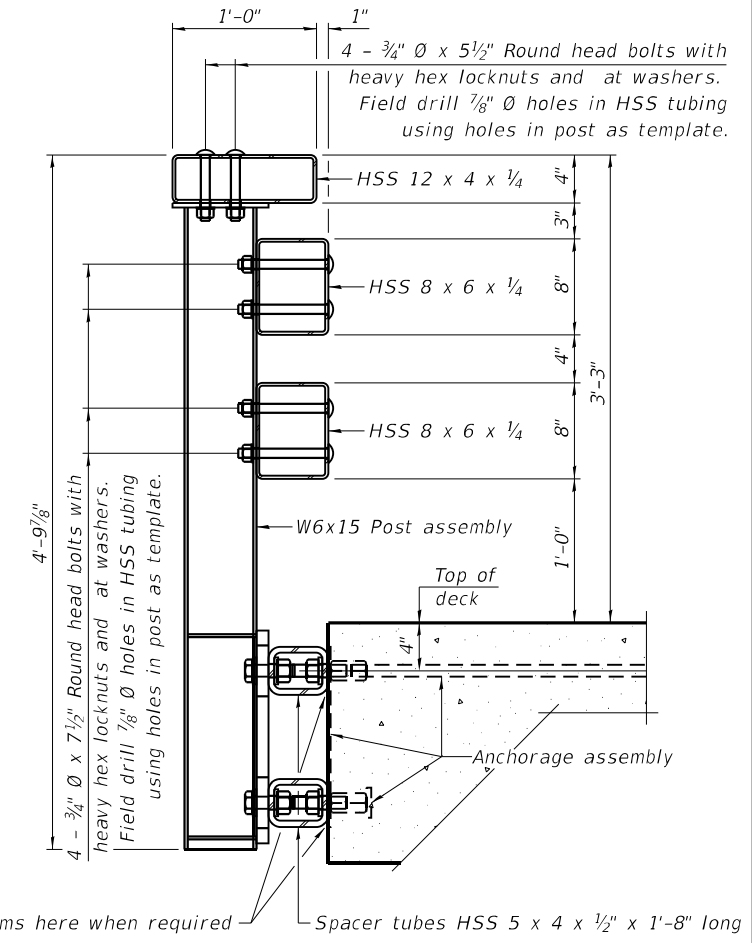
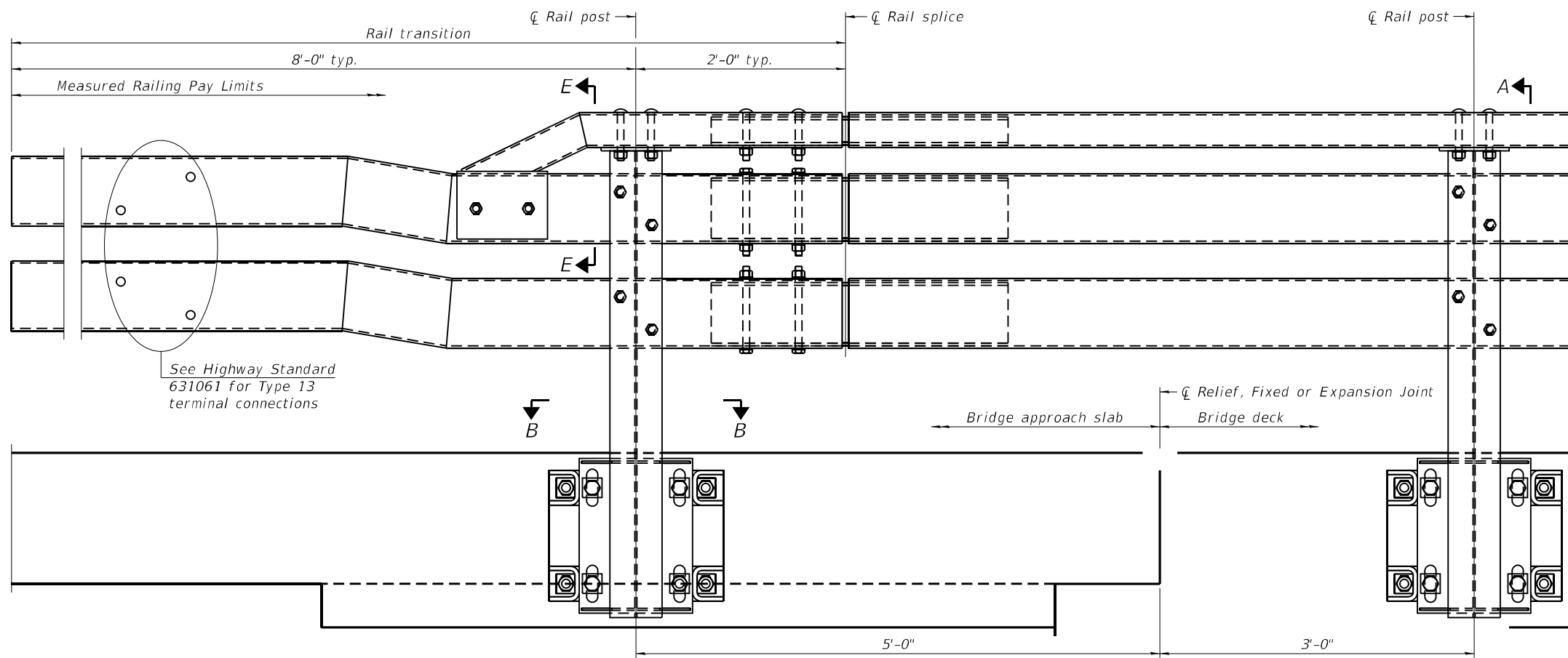
USER NAME = Blake Young	DESIGNED - DAC	REVISED -
PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 2/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

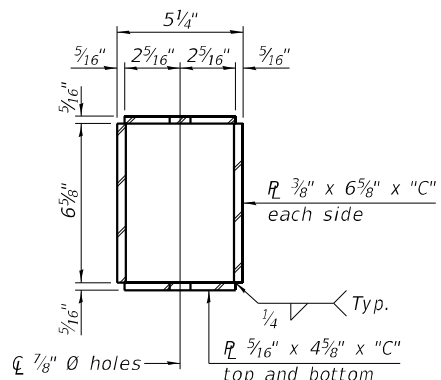
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 076-0034**

SCALE: SHEET 11 OF 25 SHEETS STA. TO STA.

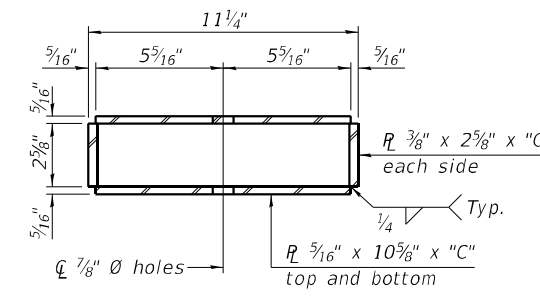
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	41
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



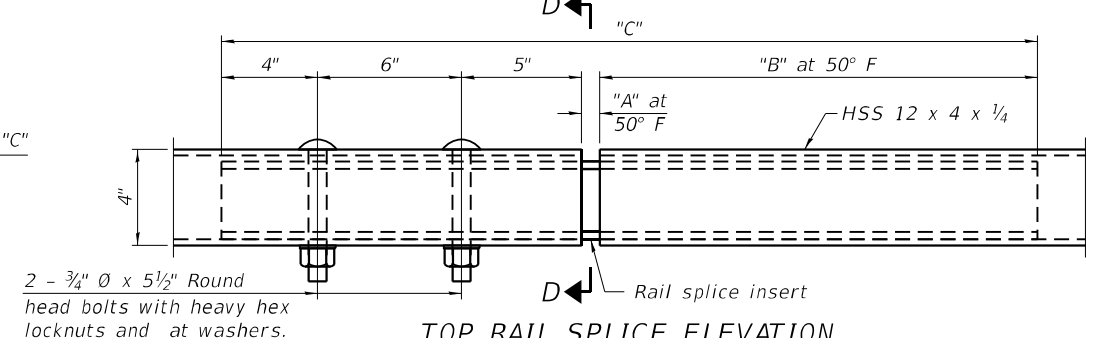
SHIM PLATE



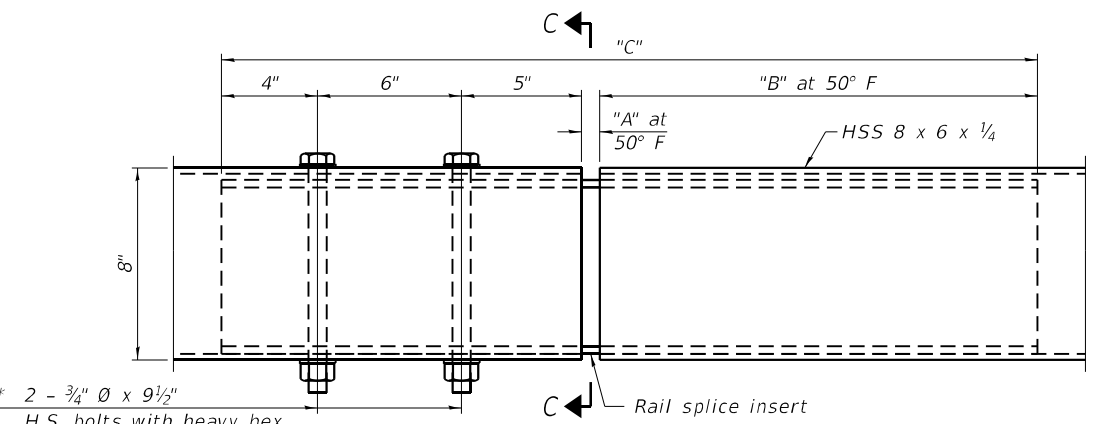
SECTION C-C



SECTION D-D

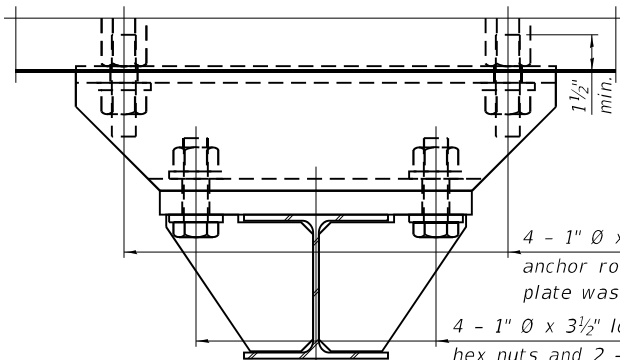


TOP RAIL SPLICE ELEVATION



MIDDLE & BOTTOM RAIL SPLICE ELEVATION

* Bolt orientation shown for middle rail. Flip for bottom rail.

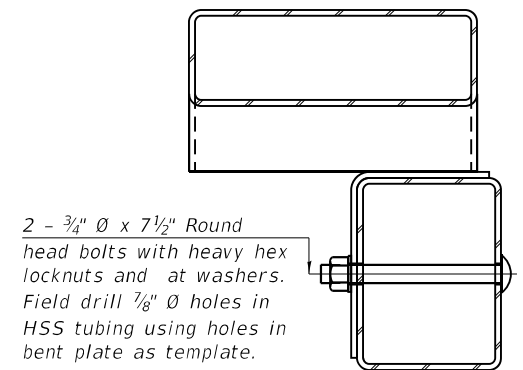


SECTION B-B

SPLICE DIMENSIONS

Location	T	A	B	C
All locs. not over exp. jts.	0	1/2"	1'-6"	2'-9 1/2"
Over Strip Seal Jt.	≤4"	2 1/2"	1'-8"	3'-1 1/2"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	1'-10 3/4"	3'-7 1/4"
Over Finger or Modular Jt.	≤15"	8 1/4"	2'-1 1/2"	4'-0 3/4"

T = ; total movement along centerline of roadway at expansion joint.



SECTION E-E

RAILING CRITERIA

MASH 2016 Test Level	4
Rail system weight (plf)	120
Max post spacing	8'-0"

R-40BD

10-12-2021

(Sheet 1 of 4)

MODEL: IL-OH Railing 01 (Rev. 01)
FILE NAME: L:\P0712\200613\00\W0_02\DrawStructures\CADD_Sheets\



USER NAME = Blake Young
PLOT SCALE = N/A
PLOT DATE = 3/30/2023

DESIGNED - DAC
DRAWN - RTH
CHECKED - DH
DATE - 02/22/2023

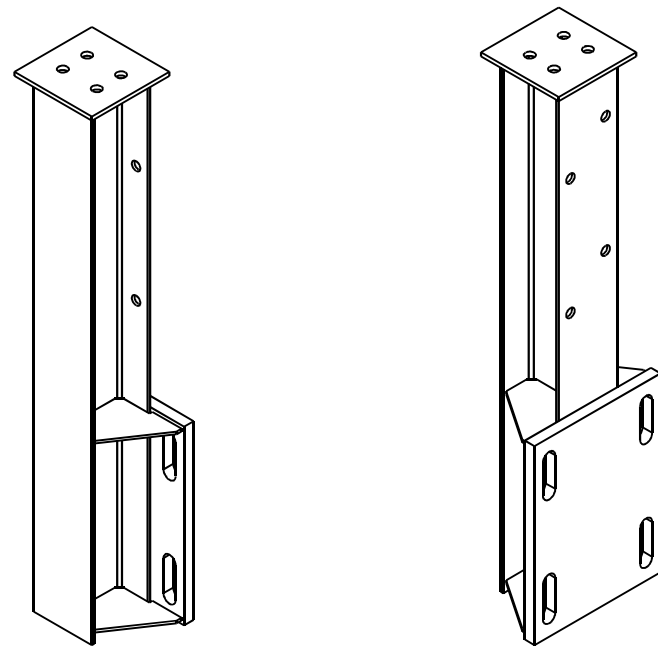
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

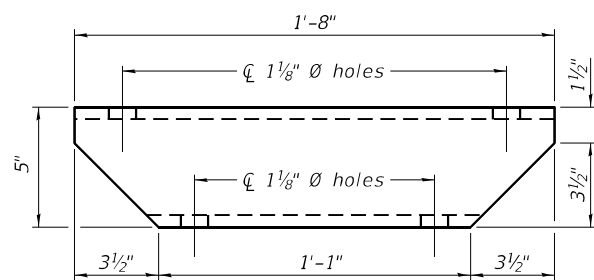
STEEL RAILING, TYPE IL-OH
STRUCTURE NO. 076-0034

SCALE: SHEET 12 OF 25 SHEETS STA. TO STA.

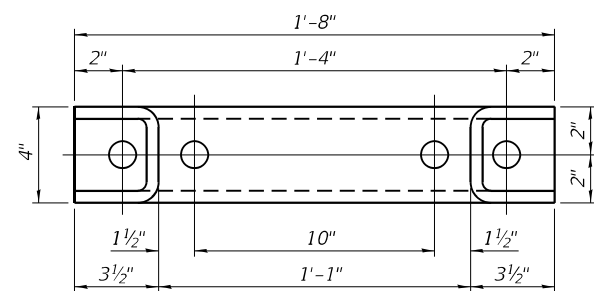
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	42
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



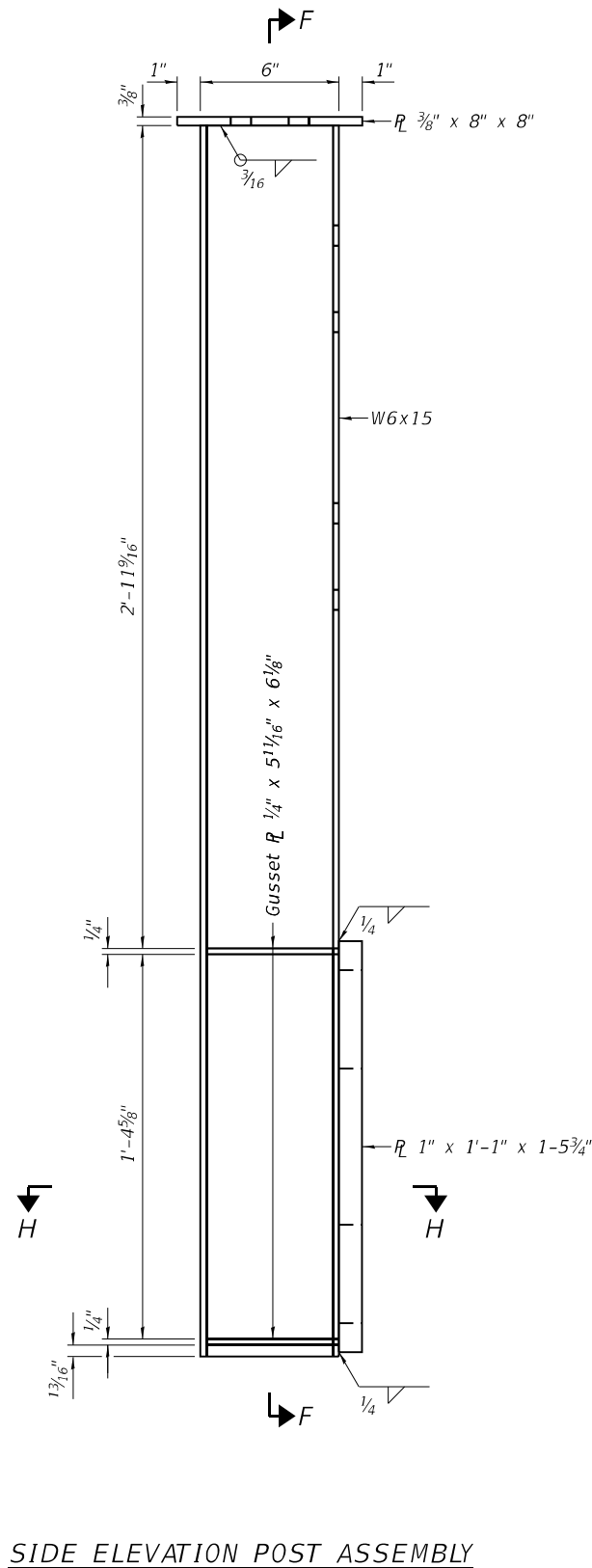
ISOMETRIC VIEWS POST ASSEMBLY



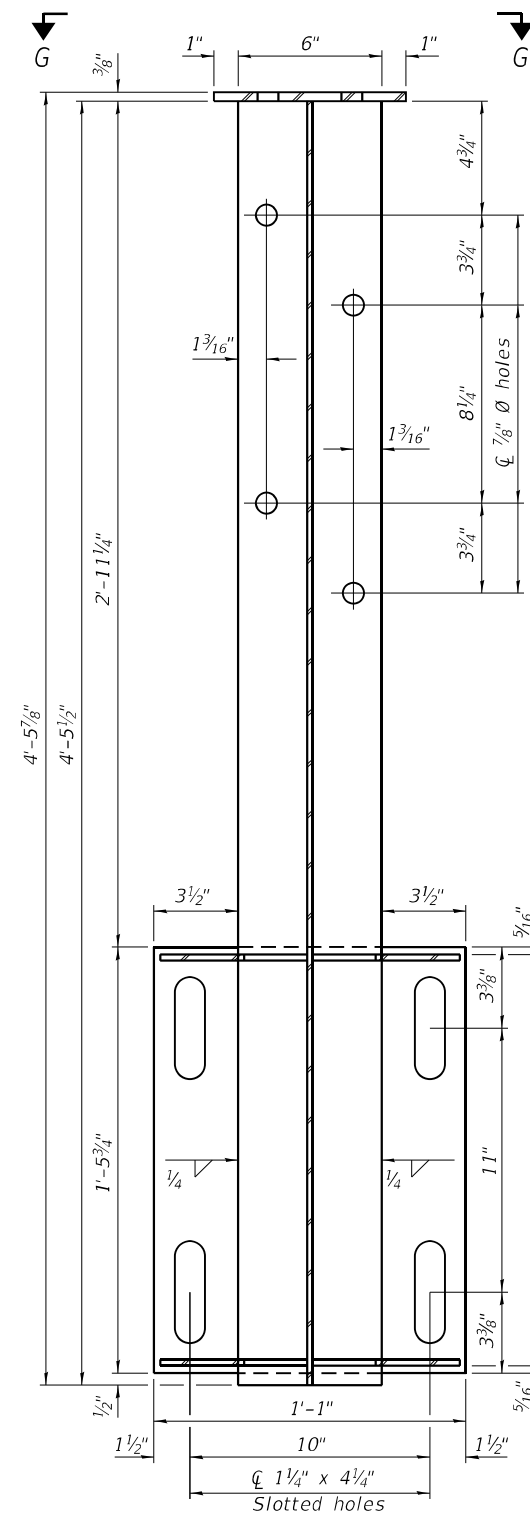
SPACER TUBE PLAN



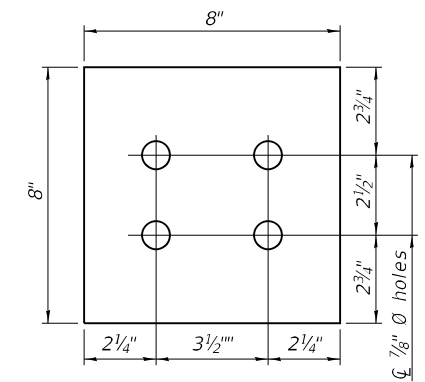
SPACER TUBE ELEVATION



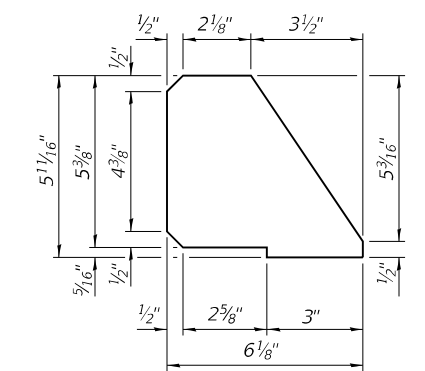
SIDE ELEVATION POST ASSEMBLY



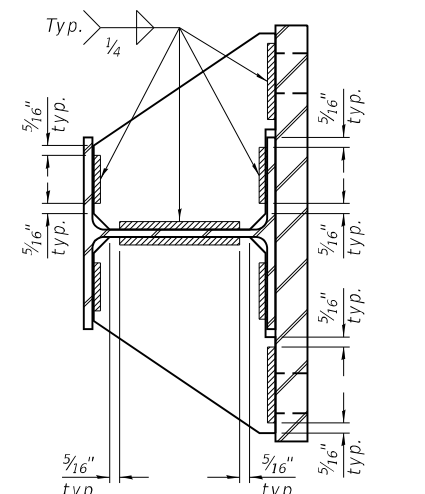
SECTION F-F



VIEW G-G
 (Showing top plate)



GUSSET PLATE



SECTION H-H
 (Showing gusset plate welds)

(Sheet 2 of 4)

R-40BD

10-12-2021

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE IL-OH
 STRUCTURE NO. 076-0034

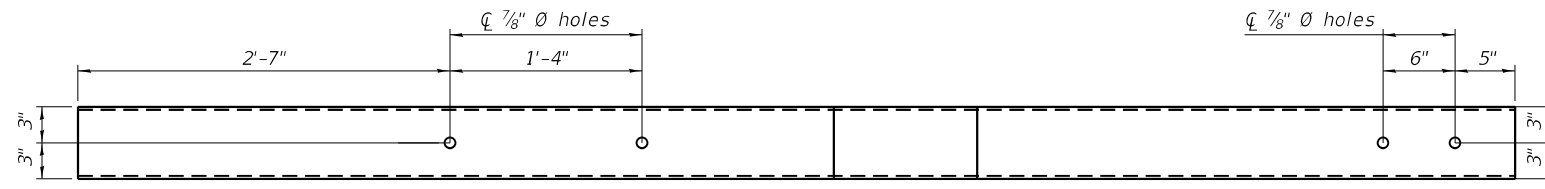
SCALE: SHEET 13 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1038-3	POPE	76	43
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

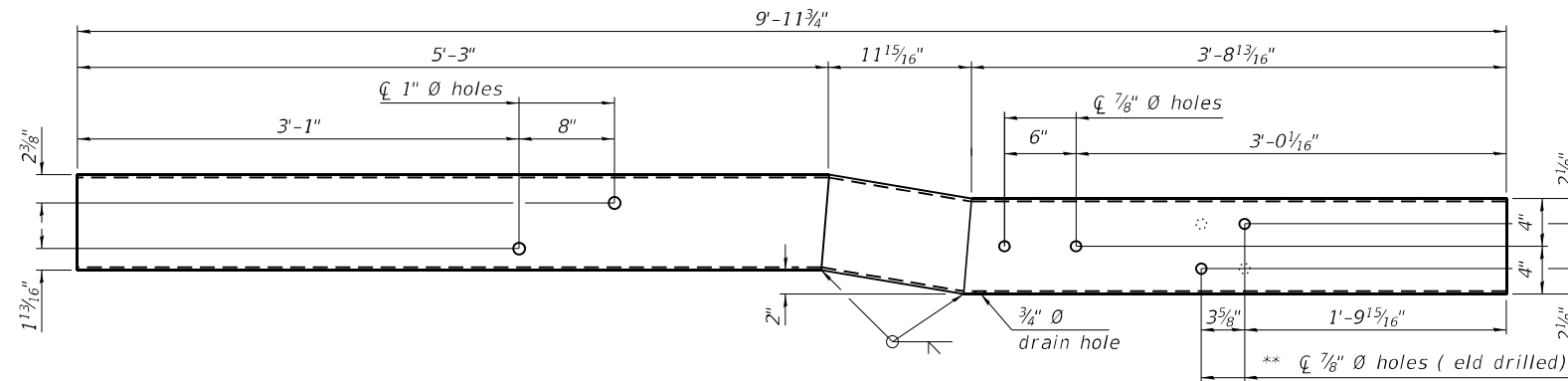
MODEL: IL-OH (Railings) 2 (Sheet)
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 License No. 184-002613 © Copyright CMT, Inc.



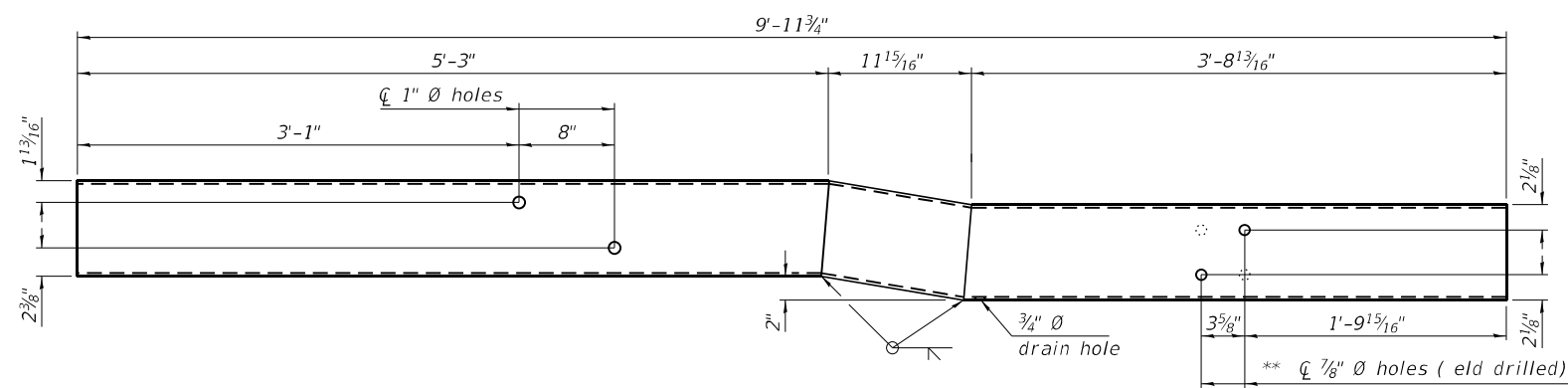
USER NAME = Blake Young	DESIGNED - DAC	REVISED -
PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DH	REVISED -
	DATE - 02/22/2023	REVISED -



PLAN OF MIDDLE AND BOTTOM RAIL TRANSITION

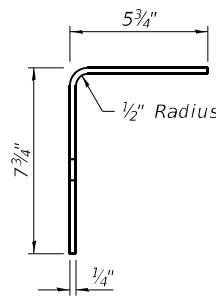


INSIDE ELEVATION OF LEFT MIDDLE RAIL TRANSITION

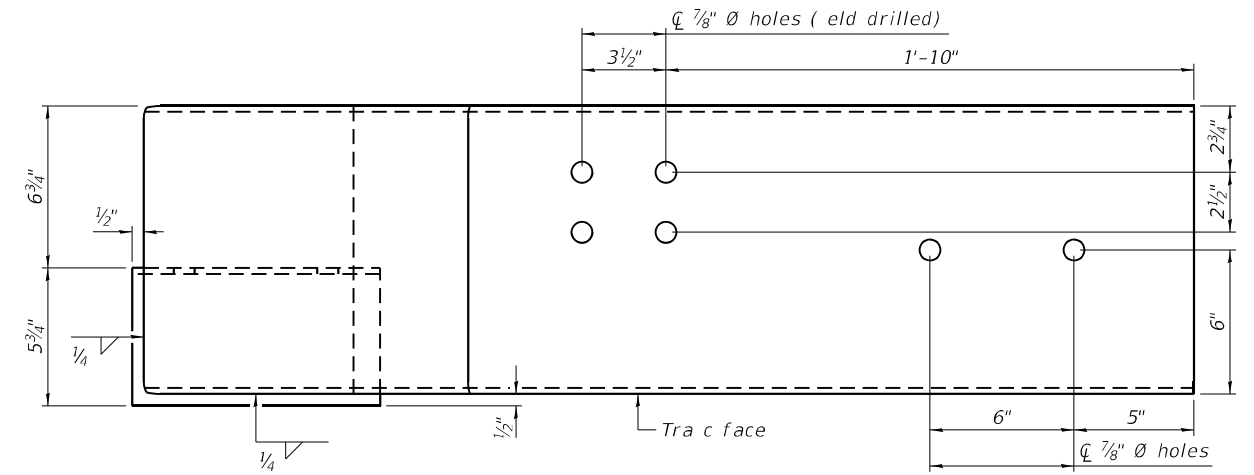


INSIDE ELEVATION OF LEFT BOTTOM RAIL TRANSITION

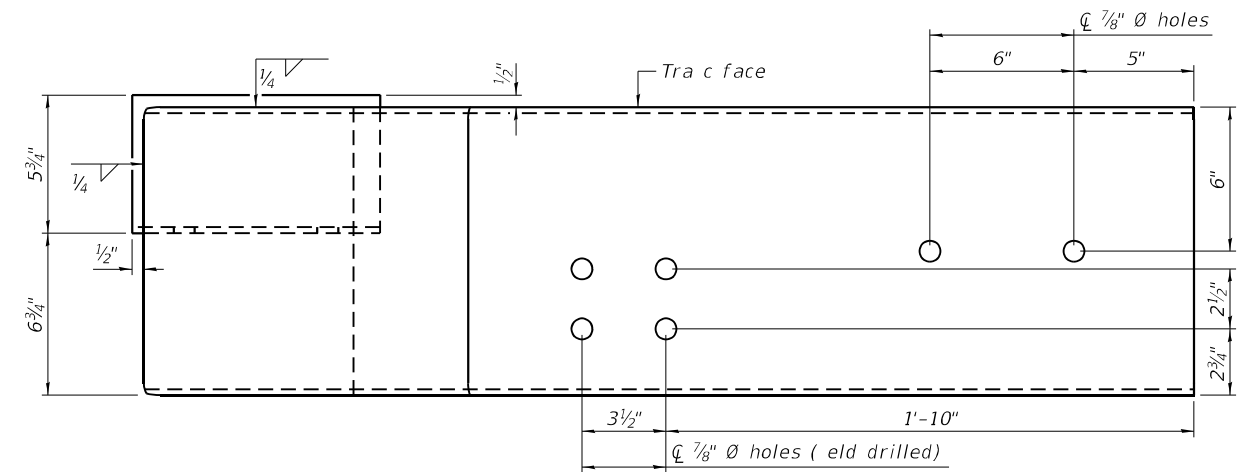
** Hole orientation is tipped as shown with the dashed holes for the right side piece.



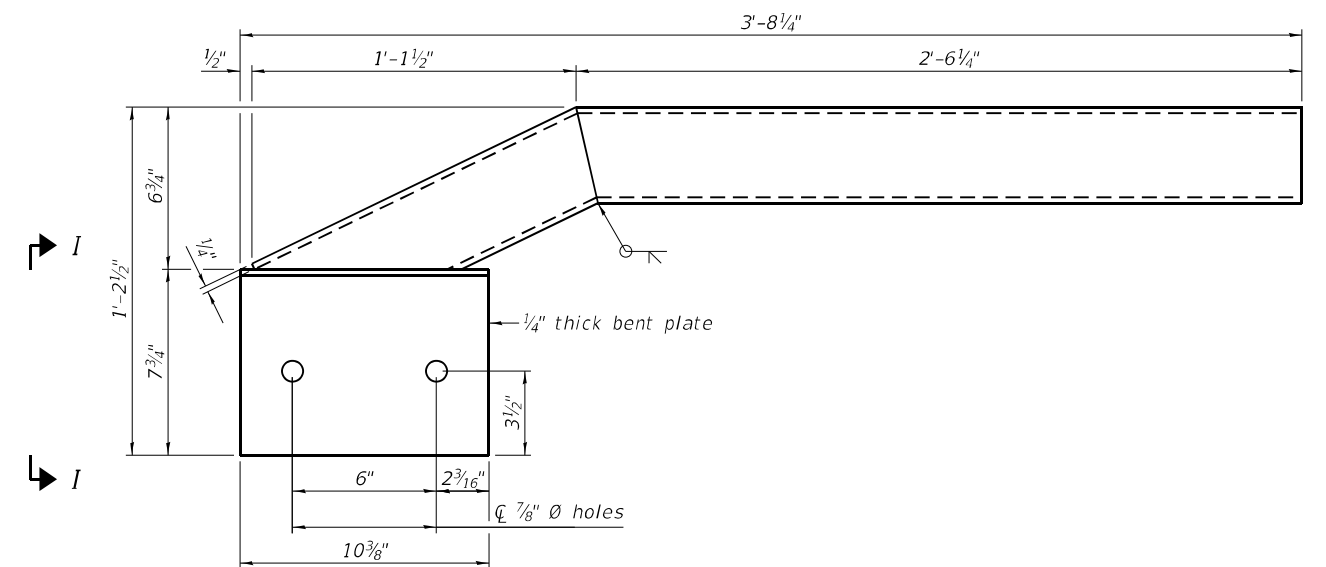
VIEW I-I



PLAN OF LEFT TOP RAIL TERMINATION ASSEMBLY



PLAN OF RIGHT TOP RAIL TERMINATION ASSEMBLY



INSIDE ELEVATION OF LEFT TOP RAIL TERMINATION ASSEMBLY

(Right Similar)

(Sheet 3 of 4)

R-40BD

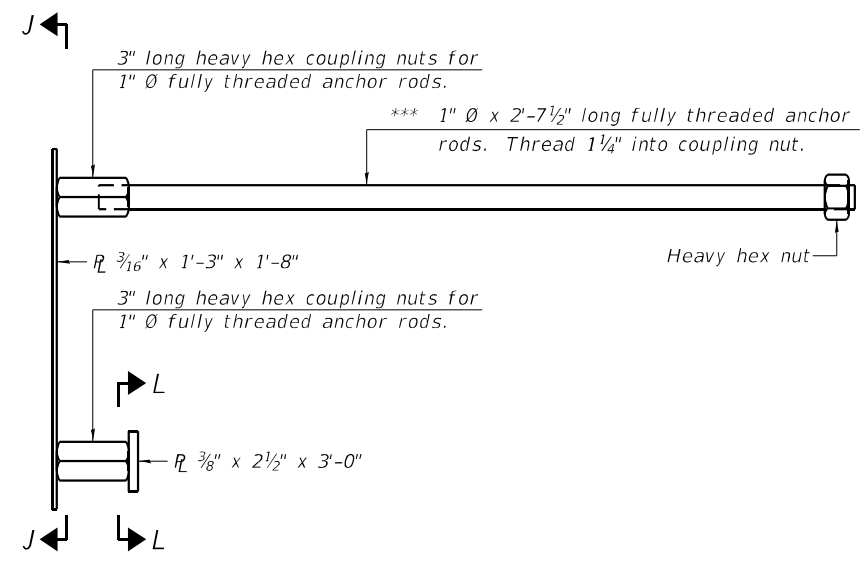
10-12-2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE IL-OH
STRUCTURE NO. 076-0034

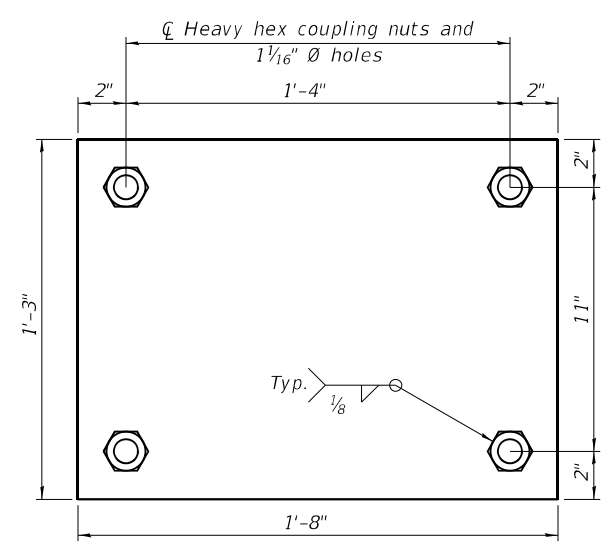
SCALE: SHEET 14 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	44
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

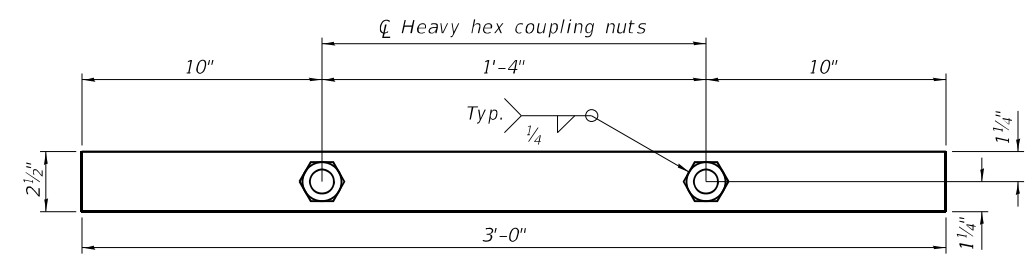


ANCHORAGE ASSEMBLY

*** For skewed bridge decks use 1" Ø x 1'-3" long fully threaded anchor rods at acute corners of bridge deck.

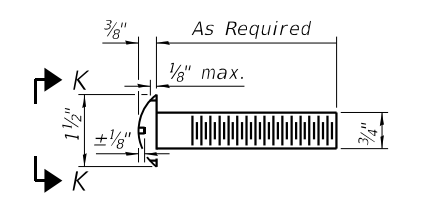


SECTION J-J

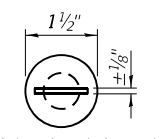


SECTION L-L

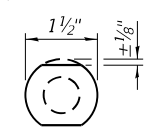
Notes:
 All plates shall be AASHTO M270 grade 50.
 All HSS tubing shall be ASTM A500 grade C.
 All heavy hex nuts including heavy hex coupling nuts shall be according to ASTM A563 grade DH.
 All fully threaded anchor rods shall be ASTM F1554 grade 105.
 All round head bolts shall be ASTM A449.
 All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.
 Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
 A sufficient number shims of various thicknesses, built to the dimensions shown in the shim plate detail, shall be provided to adjust posts for plumbness and horizontal alignment. Cost included with Steel Railing, Type IL-OH.
 The spacer tubes shall be fastened to the bridge deck and bridge approach slab snug tight and given an additional 1/2 turn. The 1" diameter high strength bolts used to connect the spacer tubes to the post assemblies shall be tightened according to Article 505.04(f)(2) of the Standard Specifications.
 All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.



ROUND HEAD BOLT DETAIL



With Slot (shown) or Approved Recess



Without Slot or Recess

VIEW K-K

BILL OF MATERIAL

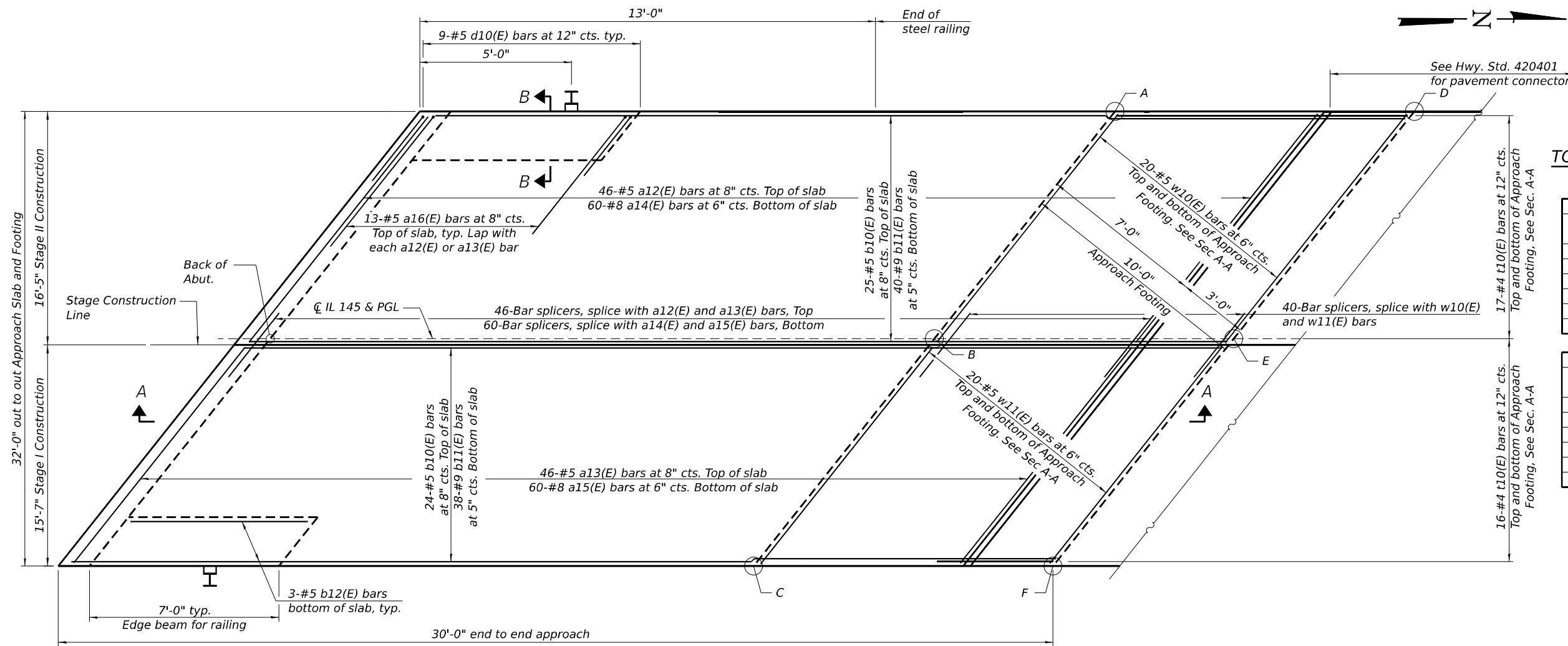
Item	Unit	Quantity
Steel Railing, Type IL-OH	Foot	202

MODEL: IL-OH (Railings) (1 Sheet)
 FILE NAME: L:\P0712\200613\00\W0_02\DrawStructures\CADD_Sheets

R-40BD 10-12-2021

(Sheet 4 of 4)

	USER NAME = Blake Young PLOT SCALE = N/A PLOT DATE = 3/30/2023	DESIGNED - DAC DRAWN - RAH CHECKED - DH DATE - 2/22/2023	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL RAILING, TYPE IL-OH STRUCTURE NO. 076-0034	F.A.P. RTE. = 132 SECTION = 103B-3 COUNTY = POPE TOTAL SHEETS = 76 SHEET NO. = 45	CONTRACT NO. 78792 ILLINOIS FED. AID PROJECT
	SCALE:	SHEET 15 OF 25 SHEETS	STA. TO STA.				



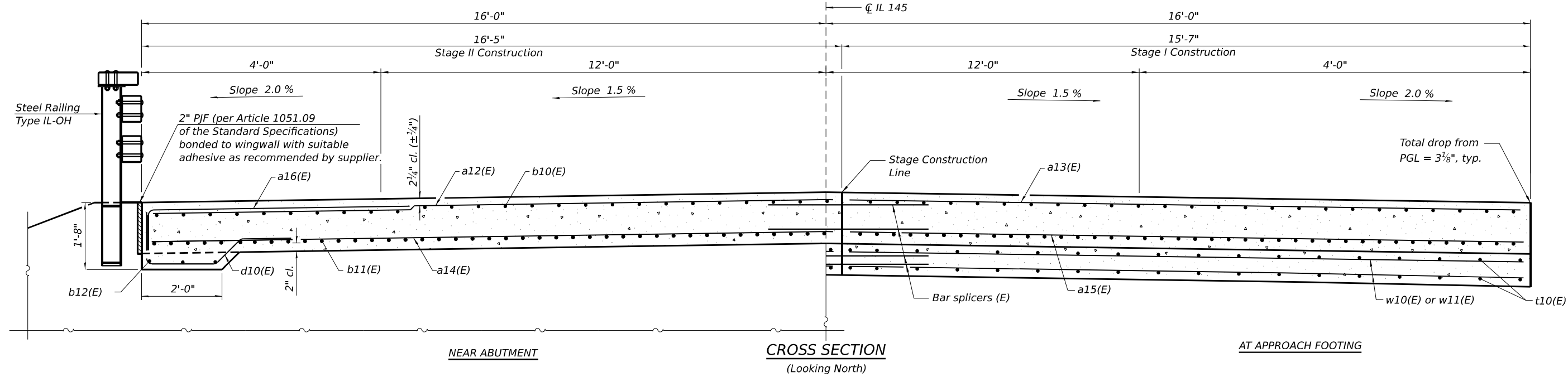
TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

North Approach			
Point	Location	Top	Bottom
A	SW	355.74	354.92
B	South C/L	356.00	355.17
C	SE	355.74	354.90
D	NW	355.74	354.92
E	North C/L	356.00	355.18
F	NE	355.74	354.91

South Approach			
Point	Location	Top	Bottom
A	NW	355.69	354.86
B	North C/L	355.95	355.12
C	NE	355.69	354.85
D	SW	355.68	354.86
E	South C/L	355.94	355.11
F	SE	355.68	354.85

PLAN

(N. approach slab shown; S. approach slab similar)



NEAR ABUTMENT

CROSS SECTION
(Looking North)

AT APPROACH FOOTING

MODEL: 01-1-Approach Slab (Rev. 1)
 FILE NAME: L:\01\22\0661\0-01\01\Draw\Structures\CADD_Sheets\



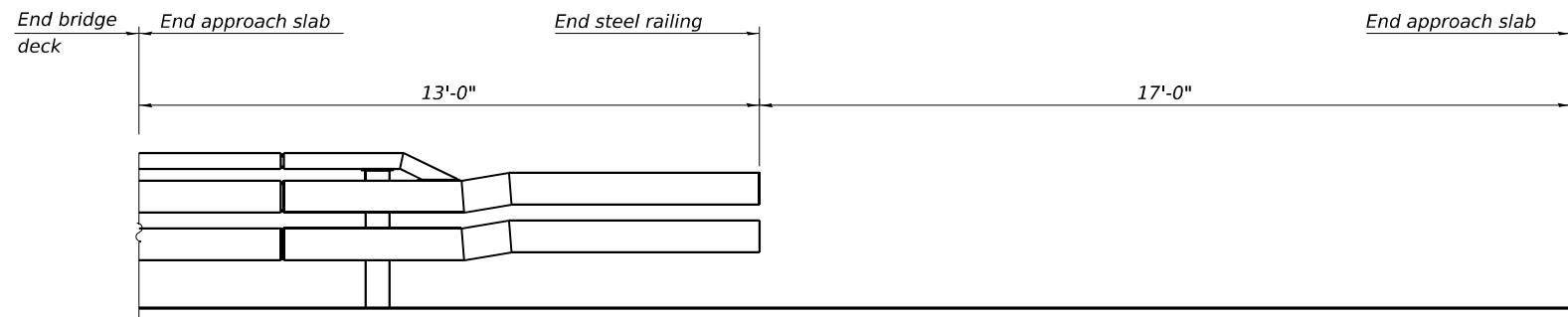
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PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 02/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB PLAN
STRUCTURE NO. 076-0034**

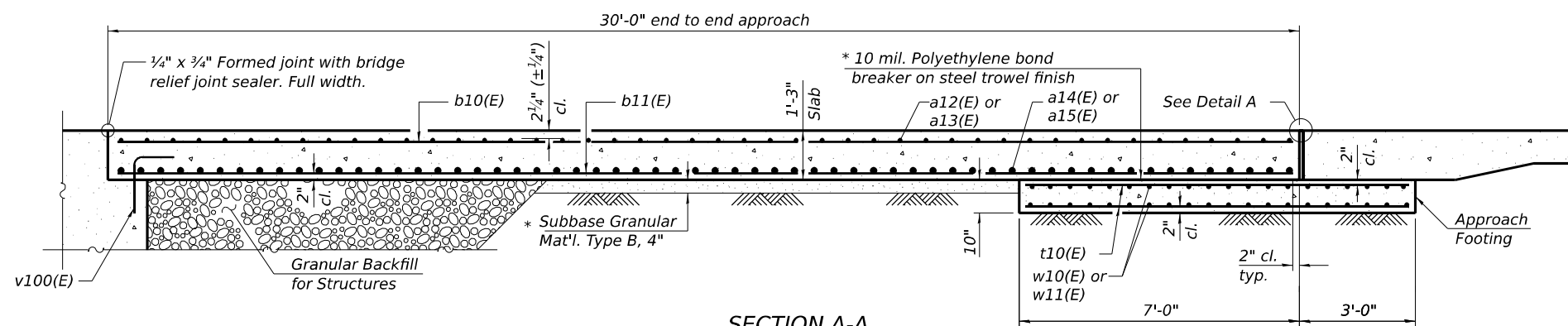
SCALE: SHEET 16 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	46
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF RAILING

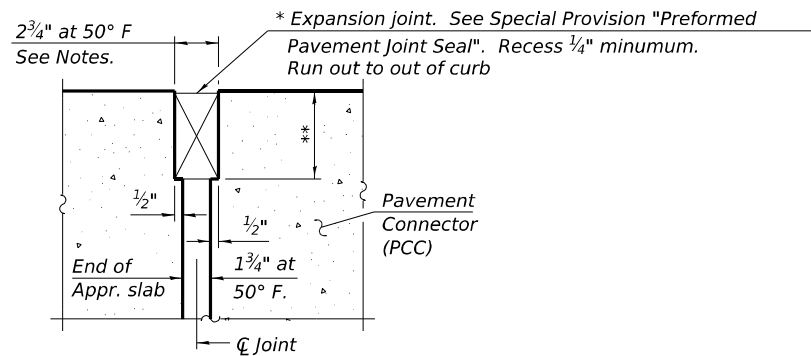
- Notes:
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 2. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 3. Approach footing concrete shall be paid for as Concrete Structures.
 4. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 5. Cost of excavation for approach footing included with Concrete Structures.
 6. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 25.
 7. For railing details, see sheets 12 thru 15 of 25.



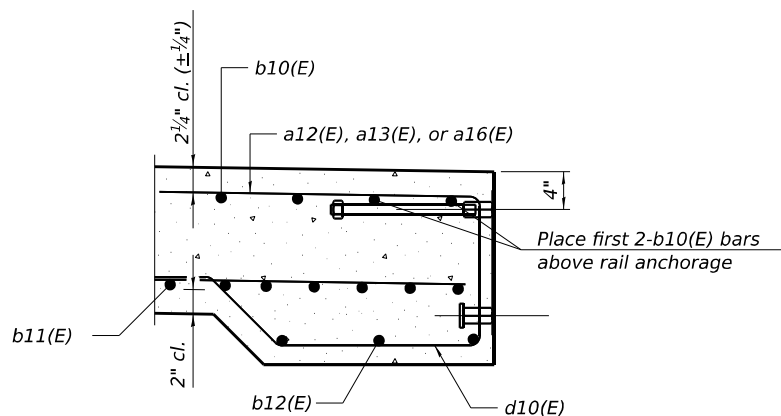
SECTION A-A

**TWO APPROACHES
BILL OF MATERIAL**

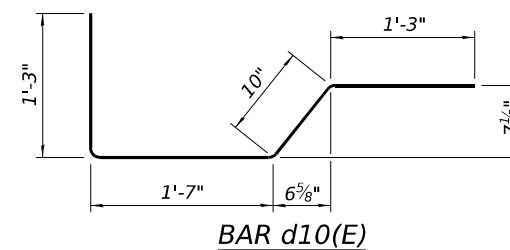
Bar	No.	Size	Length	Shape
a12(E)	92	#5	20'-7"	—
a13(E)	92	#5	19'-6"	—
a14(E)	120	#8	20'-7"	—
a15(E)	120	#8	19'-6"	—
a16(E)	52	#5	7'-8"	—
b10(E)	98	#5	29'-8"	—
b11(E)	156	#9	29'-8"	—
b12(E)	12	#5	6'-8"	—
d10(E)	36	#5	4'-11"	—
t10(E)	132	#4	12'-4"	—
w10(E)	80	#5	20'-7"	—
w11(E)	80	#5	19'-6"	—
Bridge Deck Grooving		Sq. Yd.	200	
Protective Coat		Sq. Yd.	213	
Concrete Structures		Cu. Yd.	25.2	
Concrete Superstructure (Approach Slab)		Cu. Yd.	89.3	
Reinforcement Bars, Epoxy Coated		Pound	40,580	



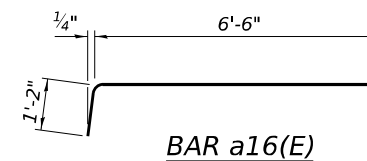
DETAIL A



SECTION B-B



BAR d10(E)



BAR a16(E)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

MODEL: 012-Approach Slab Details (15x11) FILE NAME: E:\01220061\01220061\02\DrawStructures\CADD_Sheets\



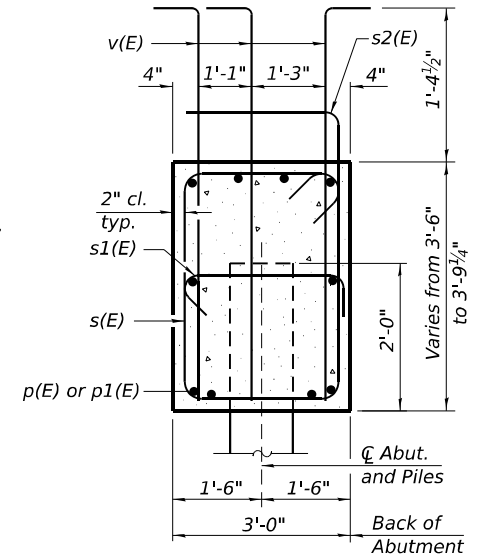
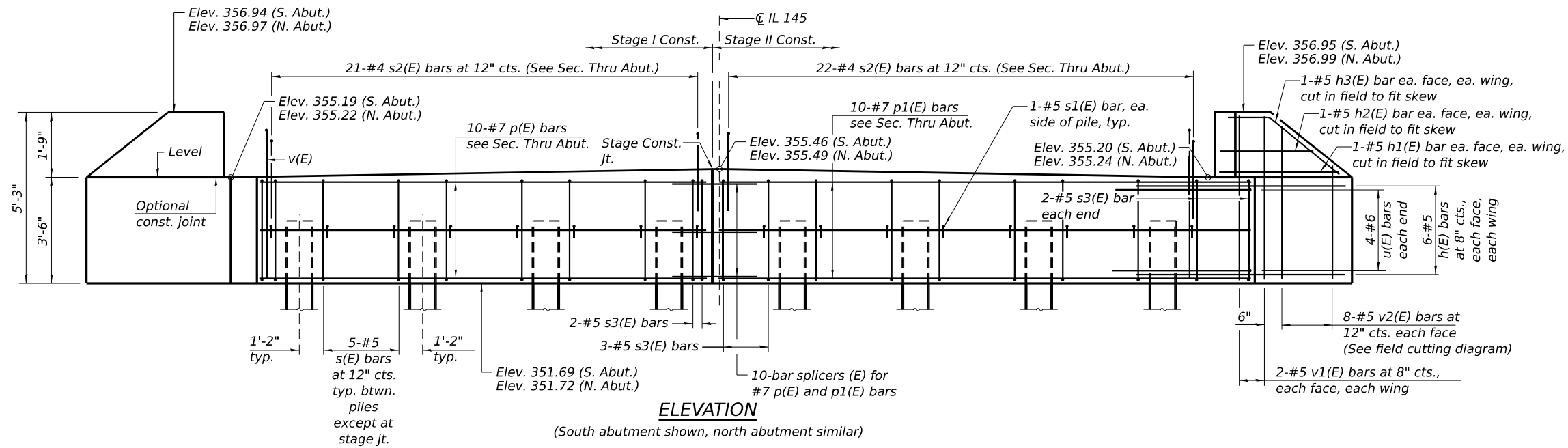
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PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 2/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 076-0034**

SCALE: SHEET 17 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	47
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

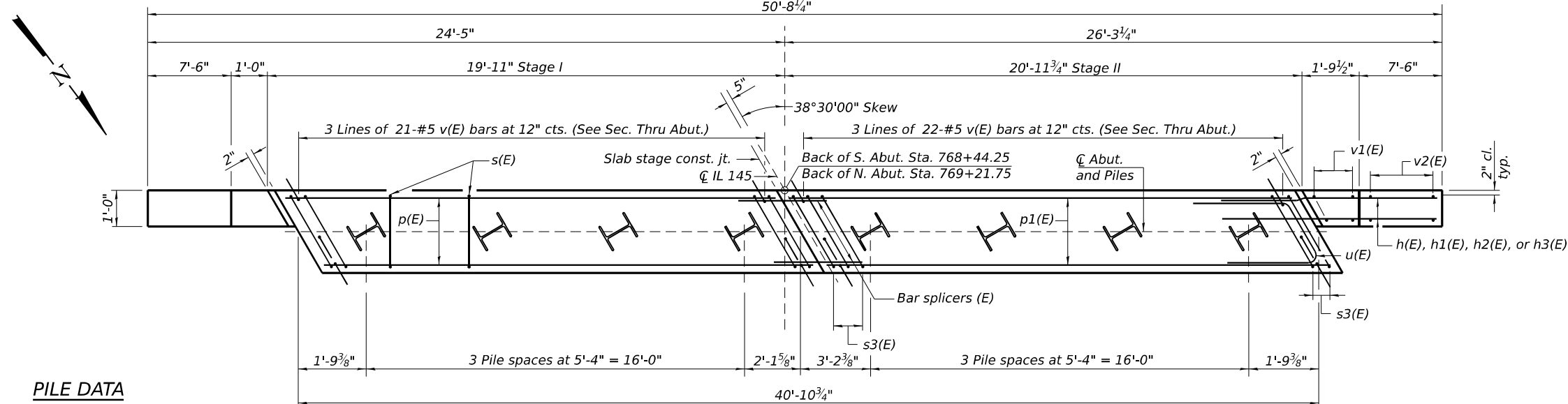


SEC. THRU ABUT.
Dimensions at right angles to abutment.

BILL OF MATERIAL FOR TWO ABUTMENTS

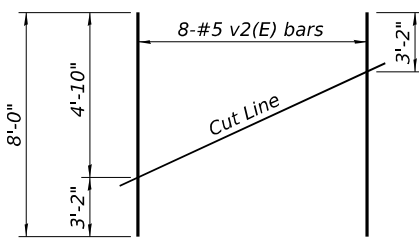
Bar	No.	Size	Length	Shape
h(E)	48	#5	13'-0"	—
h1(E)	8	#5	7'-8"	—
h2(E)	8	#5	4'-8"	—
h3(E)	8	#5	9'-1"	—
p(E)	20	#7	19'-7"	—
p1(E)	20	#7	20'-8"	—
s(E)	60	#5	12'-7"	□
s1(E)	32	#5	3'-8"	┌
s2(E)	86	#4	6'-3"	┌
s3(E)	18	#5	14'-1"	□
u(E)	16	#6	11'-11"	┌
v(E)	258	#5	6'-0"	┌
v1(E)	16	#5	4'-11"	—
v2(E)	32	#5	8'-0"	—
Structure Excavation		Cu. Yd.	158	
Concrete Structures		Cu. Yd.	39.0	
Reinforcement Bars, Epoxy Coated		Pound	6,260	
Furnishing Steel Piles HP12x63		Foot	1,302	
Driving Piles		Foot	1,302	
Test Pile Steel HP12x63		Each	2	
Pile Shoes		Each	16	

Notes:
1. For details of piles see sheet 20 of 25.
2. For bar splicer details, see sheet 21 of 25.



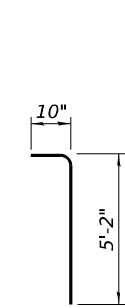
PILE DATA

Type: HP12x63
Nominal Required Bearing: 497 kips (N. & S. Abut.)
Factored Resistance Available: 273 kips (N. & S. Abut.)
Est. Length: 99 ft. (S. Abut.)
Est. Length: 87 ft. (N. Abut.)
No. Production Piles: 14
No. Test Piles: 2

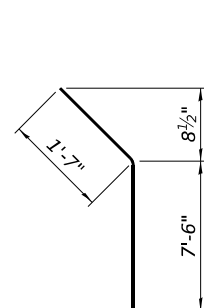


FIELD CUTTING DIAGRAM

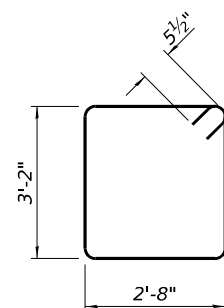
Order v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



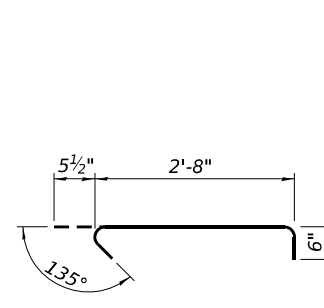
BAR v(E)



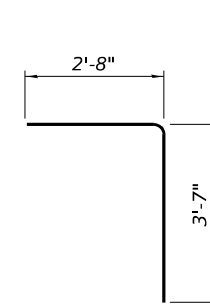
BAR h3(E)



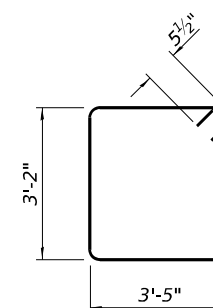
BAR s(E)



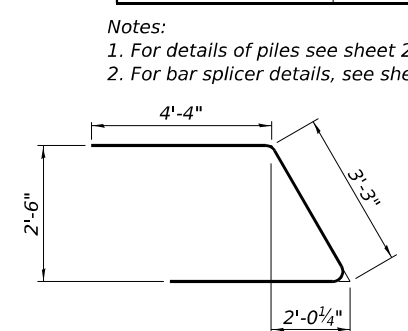
BAR s1(E)



BAR s2(E)



BAR s3(E)



BAR u(E)

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DESIGNED - DAC
DRAWN - RAH
PLOT SCALE = N/A
CHECKED - DRC/DH
PLOT DATE = 3/30/2023
DATE - 2/22/2023

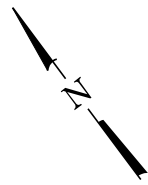
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

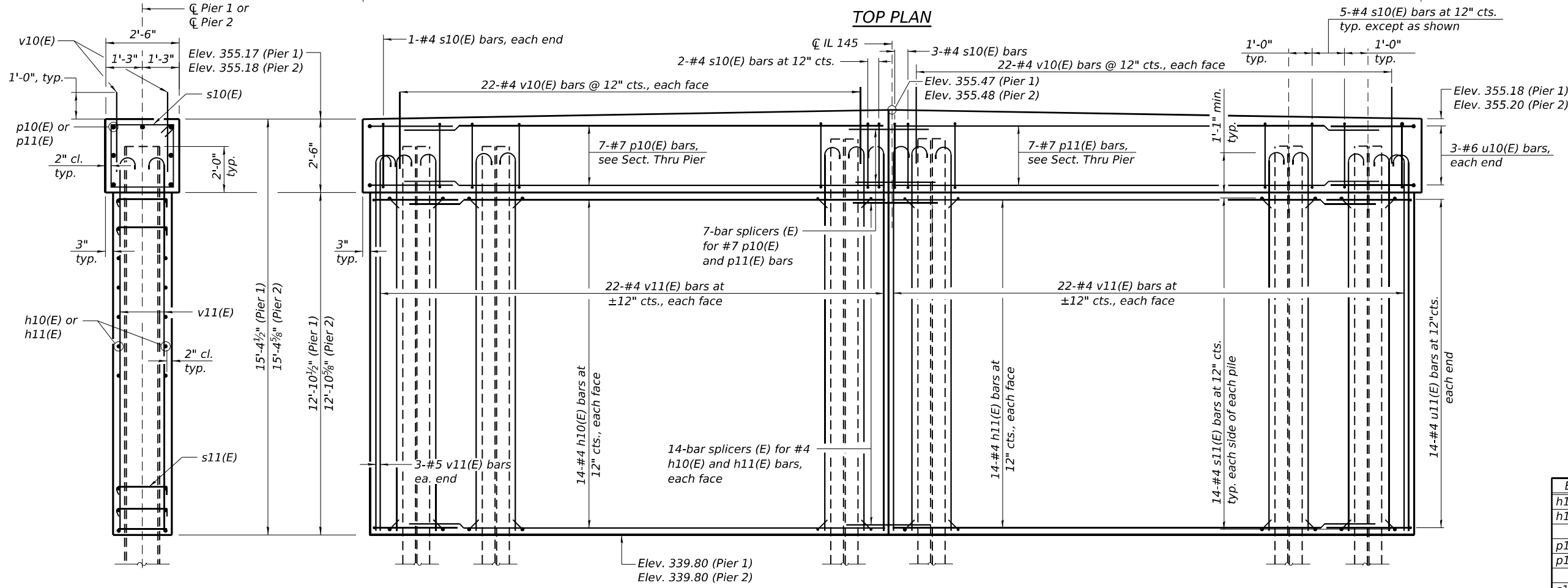
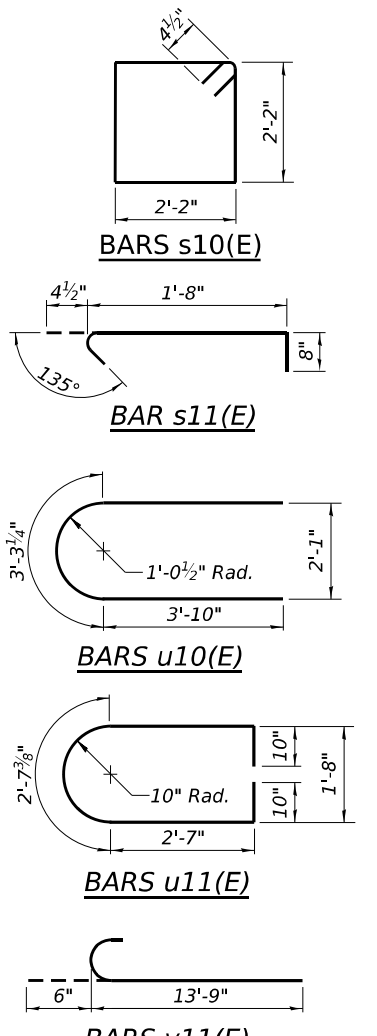
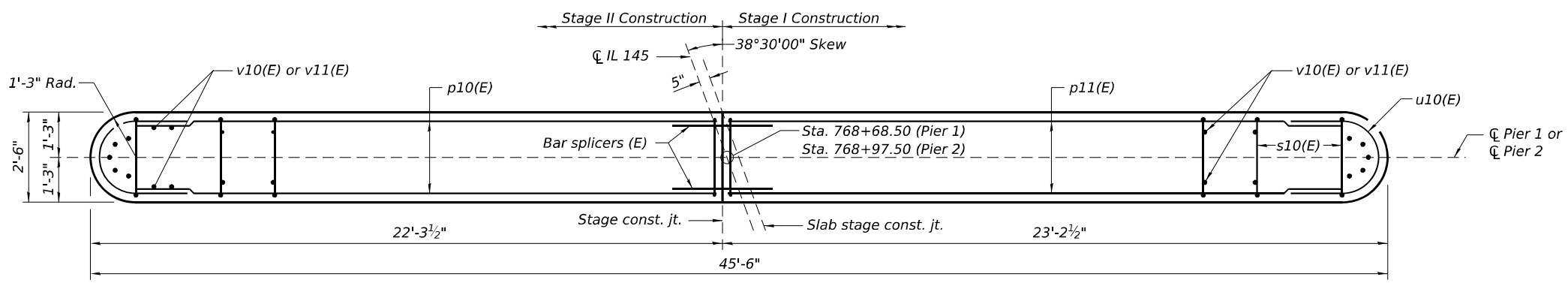
ABUTMENTS
STRUCTURE NO. 076-0034
SCALE: SHEET 18 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	48

CONTRACT NO. 78792
ILLINOIS FED. AID PROJECT



Notes:
 1. For details of piles, see sheet 20 of 25.
 2. For bar splicer details, see sheet 21 of 25.

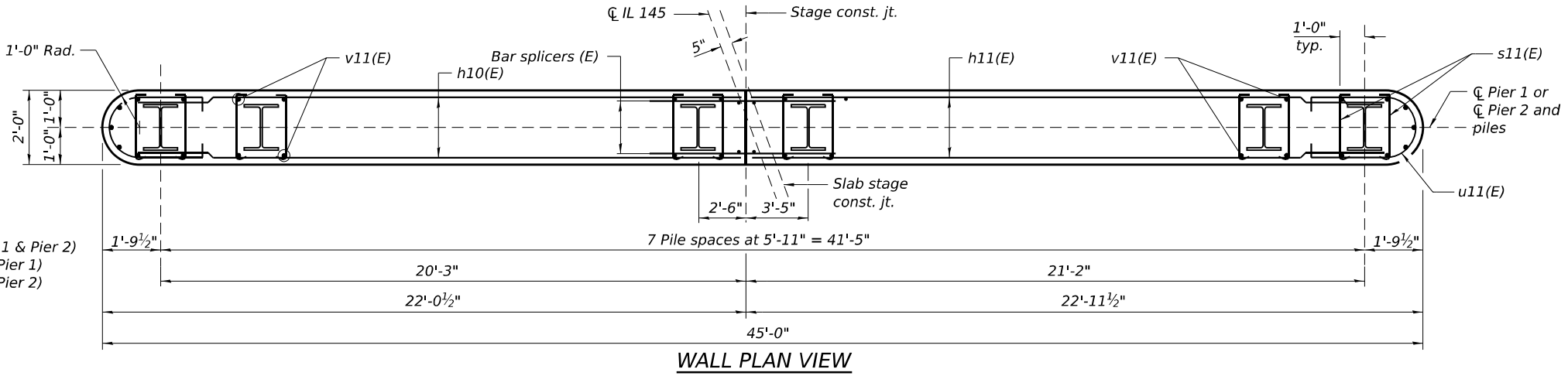


SECTION THRU PIER

ELEVATION
(Looking North)

PILE DATA

Type: HP 12x63
 Nominal Required Bearing: 497 kips (Pier 1 & Pier 2)
 Factored Resistance Available: 252 kips (Pier 1)
 Factored Resistance Available: 250 kips (Pier 2)
 Est. Length: 109 ft. (Pier 1)
 Est. Length: 97 ft. (Pier 2)
 No. Production Piles: 14
 No. Test Piles: 2



WALL PLAN VIEW

Bar	No.	Size	Length	Shape
h10(E)	56	#4	20'-10"	—
h11(E)	56	#4	21'-10"	—
p10(E)	14	#7	20'-10"	—
p11(E)	14	#7	21'-10"	—
s10(E)	74	#4	9'-5"	□
s11(E)	448	#4	2'-9"	┌
u10(E)	12	#6	10'-11"	U
u11(E)	56	#4	9'-6"	U
v10(E)	176	#4	4'-8"	—
v11(E)	188	#4	14'-3"	┌
Cofferdam Excavation		Cu. Yd.	302	
Concrete Structures		Cu. Yd.	106.9	
Reinforcement Bars, Epoxy Coated		Pound	7,070	
Furnishing Steel Piles HP 12x63		Foot	1,442	
Driving Piles		Foot	1,442	
Test Pile Steel HP 12x63		Each	2	
Pile Shoes		Each	16	
Cofferdam (Type 2) (Location - 1)		Each	1	
Cofferdam (Type 2) (Location - 2)		Each	1	

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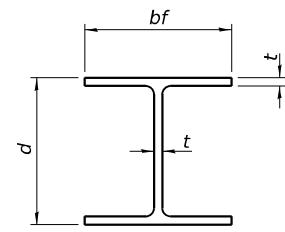
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PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS
STRUCTURE NO. 076-0034

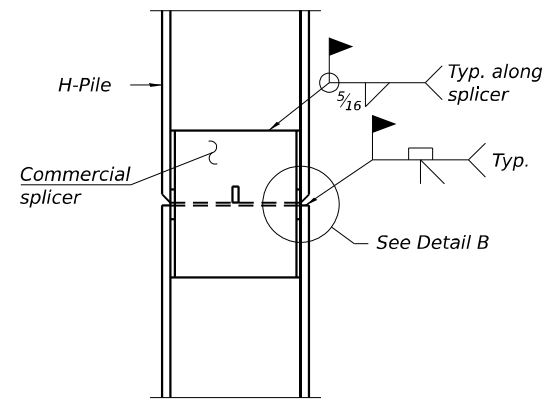
SCALE: SHEET 19 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	49
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

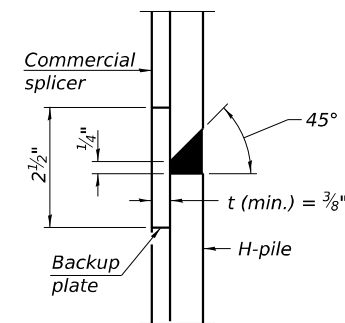


STEEL PILE TABLE

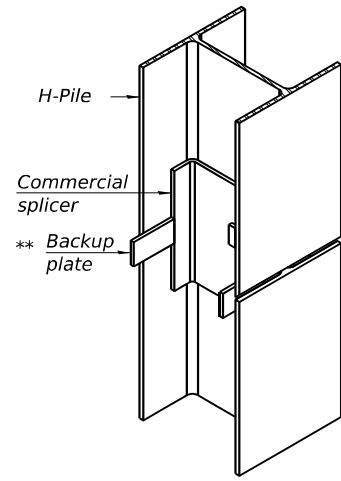
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
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

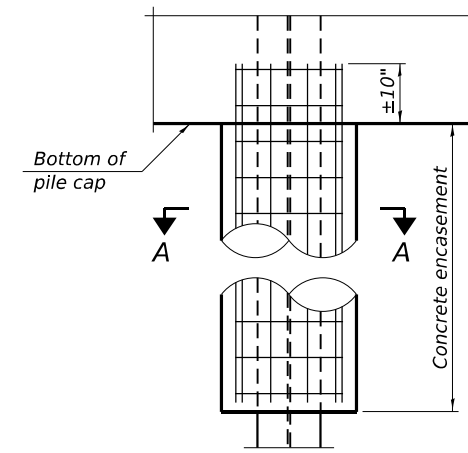


DETAIL "B"

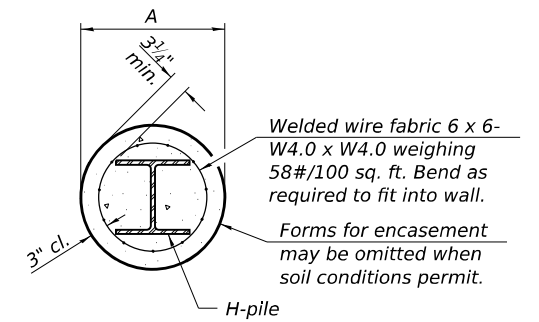


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

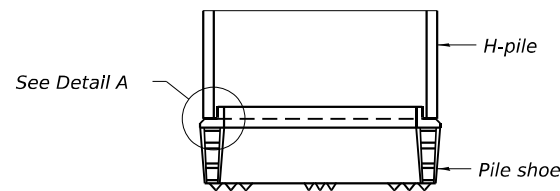


ELEVATION

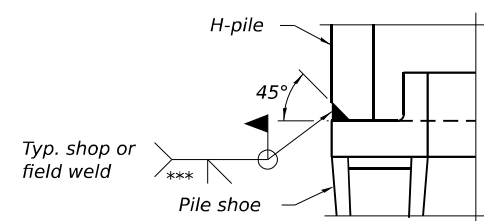


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



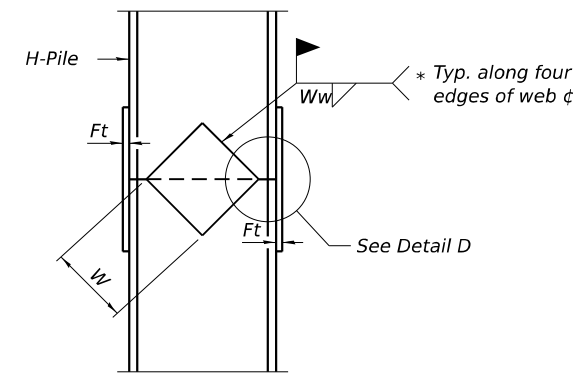
ELEVATION



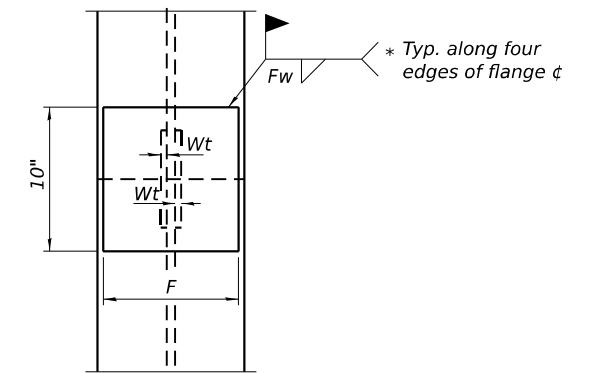
DETAIL A

SHOE ATTACHMENT

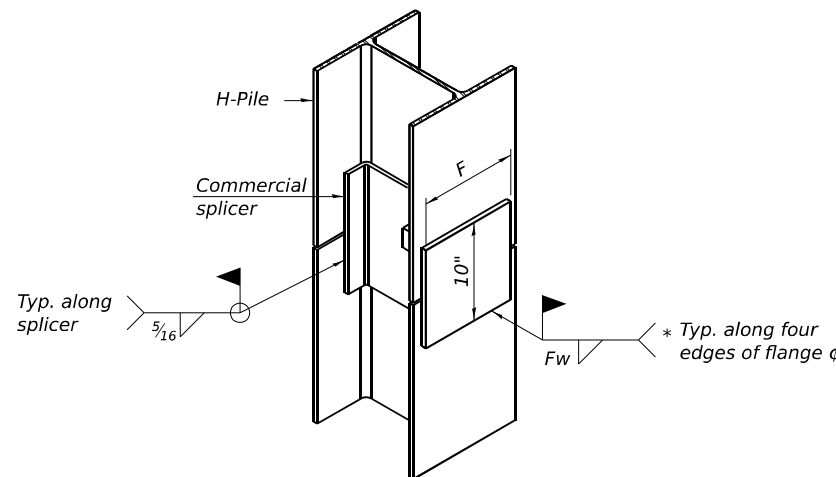
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION



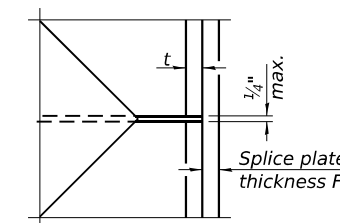
END VIEW



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	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"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

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F-HP

2-1-2023



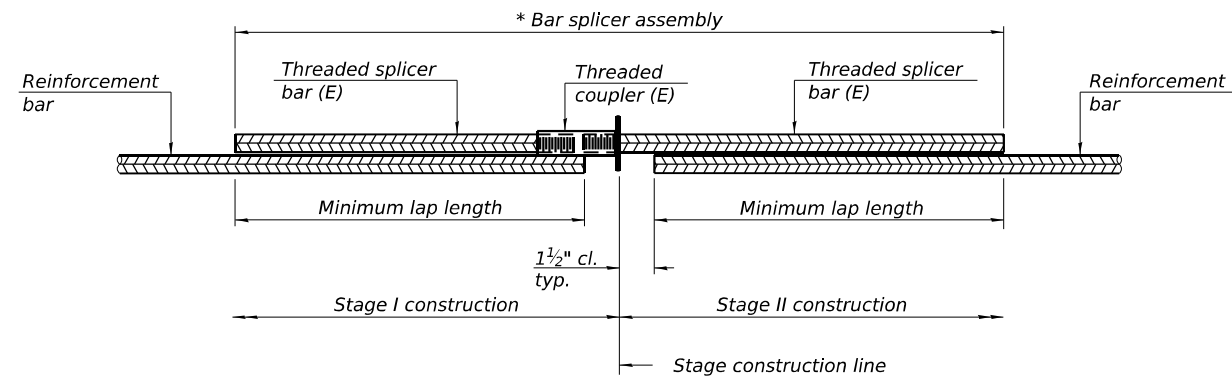
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PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 076-0034

SCALE: SHEET 20 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	50
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	



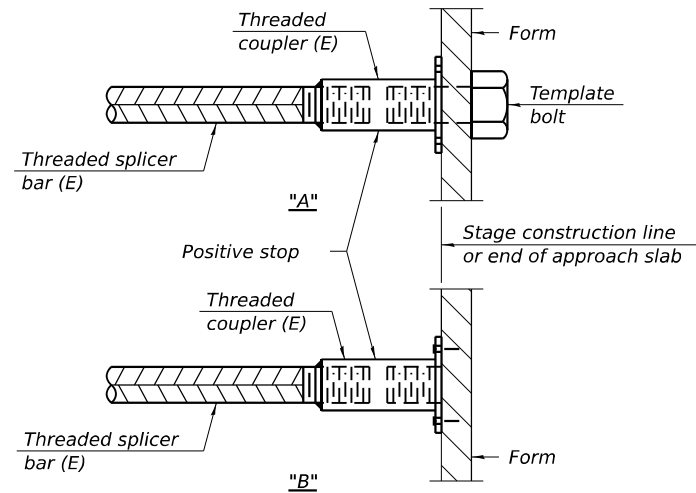
STANDARD BAR SPLICER ASSEMBLY PLAN

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
Slab Bottom	#7	147	6'-3"
Slab Top	#8	147	5'-4"
Slab over Abutments	#4	8	2'-5"
Slab over Piers	#4	6	2'-5"
Approach Slab Top	#5	92	3'-4"
Approach Slab Bottom	#8	120	4'-9"
Approach Slab Footing	#5	80	3'-4"
Abutment Caps	#7	20	5'-0"
Pier Caps	#7	14	5'-0"
Pier Wall	#4	56	2'-11"

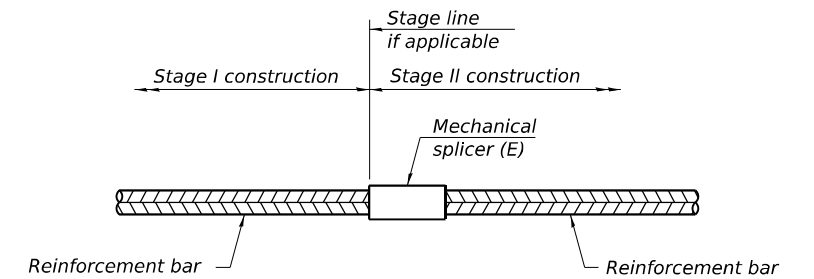


INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

MODEL: 01740-01-01 (Sheet) / SHEET 1
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BSD-1

2-1-2023



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USER NAME = Derek Cochran	DESIGNED - DAC	REVISED -
DRAWN - DAC	REVISIONS -	
PLOT SCALE = N/A	CHECKED - DRC/DH	REVISED -
PLOT DATE = 4/27/2023	DATE - 2/22/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 076-0034

SCALE: SHEET 21 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	51
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 11/1/19

ROUTE IL 145 DESCRIPTION Structure over Bear Creek Ditch LOGGED BY L. Estel

SECTION LOCATION 0.6 Miles N of Massac Co. Line (S. Abut.)

COUNTY Pope DRILLING METHOD HSA HAMMER TYPE Auto

Table with columns for DEPTH, BLOW COUNT, UNIFIED SOIL TYPE, MOISTURE, and SOIL DESCRIPTION. Includes data for Pavement, Clay-Gray, and Clay-Brownish-Gray layers.

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)



SOIL BORING LOG

Date 11/1/19

ROUTE IL 145 DESCRIPTION Structure over Bear Creek Ditch LOGGED BY L. Estel

SECTION LOCATION 0.6 Miles N of Massac Co. Line (S. Abut.)

COUNTY Pope DRILLING METHOD HSA HAMMER TYPE Auto

Table with columns for DEPTH, BLOW COUNT, UNIFIED SOIL TYPE, MOISTURE, and SOIL DESCRIPTION. Includes data for Clay-Brownish-Gray, Clay LOAM, and Clay-Gray layers.

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)

MODEL: 01-B-Soil Boring (Sheet) FILE NAME: E:\DOT\2019\0613\40\WO_02\DrawStructures\CADD_Sheet1.dwg



Table with columns for USER NAME, DESIGNED, DRAWN, PLOT SCALE, PLOT DATE, REVISED, CHECKED, DATE.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOG - I STRUCTURE NO. 076-0034

SCALE: SHEET 22 OF 25 SHEETS STA. TO STA.

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.



SOIL BORING LOG

Date 11/1/19

ROUTE IL 145 DESCRIPTION Structure over Bear Creek Ditch LOGGED BY L. Estel

SECTION LOCATION 0.6 Miles N of Massac Co. Line (S. Abut.)

COUNTY Pope DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 076-0019
 Station 768+83
 BORING NO. 1-S
 Station 768+32
 Offset 6.0 ft LT
 Ground Surface Elev. 356.90 ft

Surface Water Elev. 345.20 ft
 Stream Bed Elev. 342.80 ft
 Groundwater Elev.:
 First Encounter 309.9 ft
 Upon Completion
 After Hrs.

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	REMARKS
3	8	B	CLAY-Gray, Stiff, Moist (continued)
8	8	-	NO RECOVERY, Possibly SAND (Medium-Dense)
15	8	-	
25.4	8/6"	-	NO RECOVERY-Possibly SAND (Medium-Dense)
100/0"			

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)



ROCK CORE LOG

Date 11/1/19

ROUTE IL 145 DESCRIPTION Structure over Bear Creek Ditch LOGGED BY L. Estel

SECTION LOCATION 0.6 Miles N of Massac Co. Line (S. Abut.)

COUNTY Pope CORING METHOD Conventional Rotary Wash

STRUCT. NO. 076-0019
 Station 768+83
 BORING NO. 1-S
 Station 768+32
 Offset 6.0 ft LT
 Ground Surface Elev. 356.90 ft

CORING BARREL TYPE & SIZE NV3 5FT NWJ
 Core Diameter 2 in
 Top of Rock Elev. 99.50 ft
 Begin Core Elev. 257.40 ft

DEPTH (ft)	RECOVERY (%)	Q-D (%)	CORE TIME (min/ft)	STRENGTH (tsf)
257.40	80	7	2	929.6
251.70	100	55	3	818.3
249.10				936.3
247.40				859.2
End of Boring				

Color pictures of the cores
 Cores will be stored for examination until
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

MODEL: 01-24-Cell Boring (Sheet)
 FILE NAME: L:\P072260613\40\WO_02\DrawStructures\CADD_Sheet3.dwg



USER NAME = Blake Young	DESIGNED - DAC	REVISED -
PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOG - II
 STRUCTURE NO. 076-0034

SCALE: SHEET 23 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	53
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

Date 11/14/19

ROUTE IL 145 DESCRIPTION Structure over Bear Creek Ditch LOGGED BY L. Estel

SECTION LOCATION 0.6 Miles N of Massac Co. Line (N. Abut.)

COUNTY Pope DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO.	P	O	S	I	Groundwater Elev.:	P	O	S	I
Station	T	W	Qu	T	First Encounter	H	S	Qu	T
Offset					ft				
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
076-0019					345.20				
768+83					342.80				
2-S									
769+34					320.8				
8.0 ft RT									
356.80									
PAVEMENT-Asphalt (5.25") and Concrete (9")					334.8				
SILTY CLAY-Brown, Soft, Moist	WH								
	WH	0.2		27					
	WH	B							
352.3					332.3				
CLAY-Brown, Very Stiff, Moist	1								
	3	2.7		21					
	5	B							
					329.8				
	1								
	2	2.1		22					
	3	B							
347.3					321.8				
CLAY-Gray with Brown Specks, Very Stiff, Moist	WH								
	1	1.3		23					
	3	B							
344.8					320.8				
CLAY-Gray and Mottled Brown, Very Stiff, Moist	1								
	3	3.1		21					
	5	B							
Becomes Gray and Mottled Black	1								
	3	2.1		23					
	4	B							
					321.8				
	1								
	3	1.0		23					
	4	B							
					320.8				
	1								
	5	3.3		23					
	7	B							
337.3					317.3				
	1								

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)



SOIL BORING LOG

Date 11/14/19

ROUTE IL 145 DESCRIPTION Structure over Bear Creek Ditch LOGGED BY L. Estel

SECTION LOCATION 0.6 Miles N of Massac Co. Line (N. Abut.)

COUNTY Pope DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO.	P	O	S	I	Groundwater Elev.:	P	O	S	I
Station	T	W	Qu	T	First Encounter	H	S	Qu	T
Offset					ft				
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
076-0019					345.20				
768+83					342.80				
2-S									
769+34					320.8				
8.0 ft RT									
356.80									
CLAY-Brownish-Gray, Stiff, Moist (continued)					312.8				
	2	1.2		24					
	3	B							
					292.8				
					312.8				
CLAY-Brownish-Gray, Medium-Stiff, Moist	1								
	3	0.8		24					
	3	B							
					292.8				
					307.8				
CLAY-Brownish-Gray, Stiff, Moist	1								
	3	1.5		25					
	4	B							
					287.8				
					307.8				
CLAY-Brownish-Gray, Stiff, Moist	1								
	3	1.7		27					
	5	B							
					282.8				
					297.8				
CLAY-Brownish-Gray, Very Stiff, Moist	1								
	4	2.9		18					
					277.8				
					297.8				
CLAY-Gray, Medium-Stiff, Very Moist	1								
	2	0.7		17					
					276.8				

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)

MODEL: 076-0019-Boring (Sheet)
 FILE NAME: I:\P0712230661\040\WO_02\DrawStructures\CADD_Sheet1.dwg



USER NAME = Blake Young	DESIGNED - DAC	REVISED -
PLOT SCALE = N/A	DRAWN - RAH	REVISED -
PLOT DATE = 3/30/2023	CHECKED - DRC/DH	REVISED -
	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOG - III
 STRUCTURE NO. 076-0034

SCALE: SHEET 24 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	54
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



**Illinois Department
of Transportation**
Division of Highways

SOIL BORING LOG

Page 3 of 3

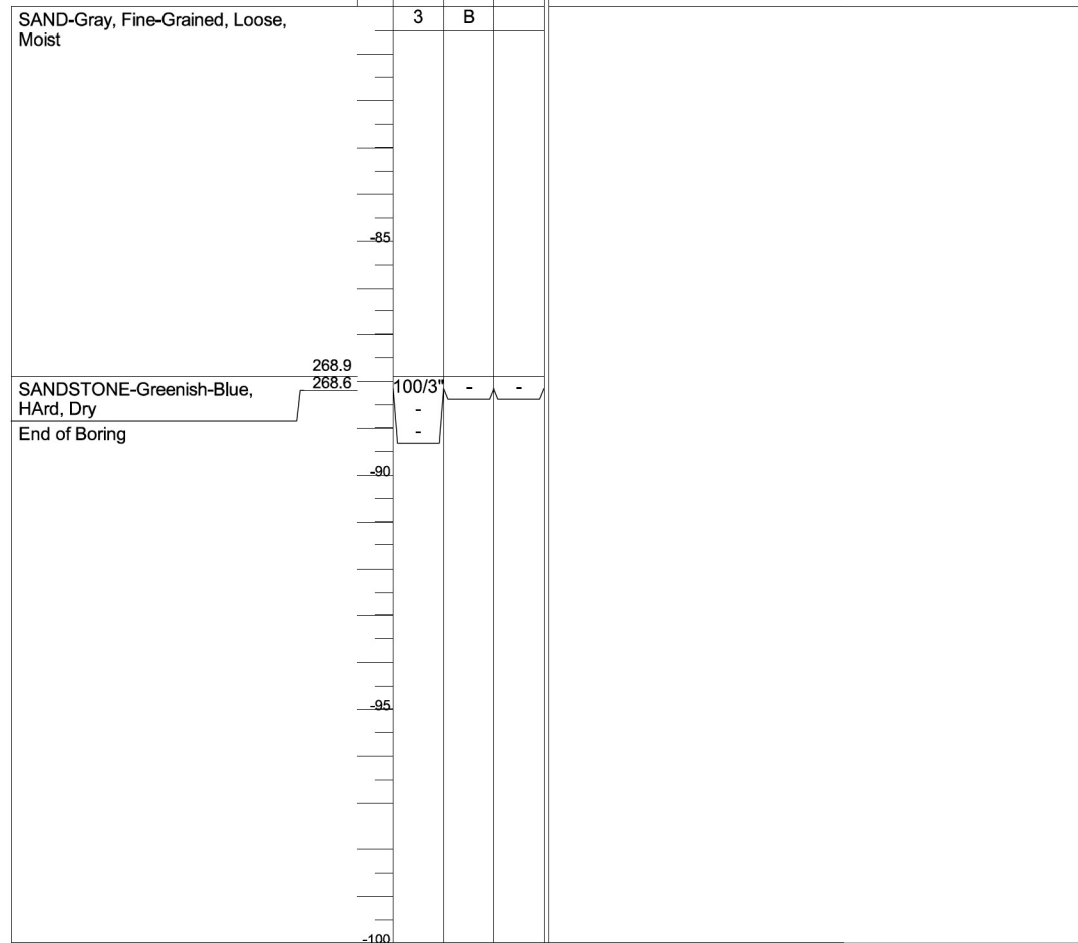
Date 11/14/19

ROUTE Il. 145 DESCRIPTION Structure over Bear Creek Ditch LOGGED BY L. Estel

SECTION _____ LOCATION 0.6 Miles N of Massac Co. Line (N. Abut.)

COUNTY Pope DRILLING METHOD _____ HSA _____ HAMMER TYPE Auto

STRUCT. NO. <u>076-0019</u>	D E P T H	B L O S H	U C S Qu	M O I S T	Surface Water Elev. <u>345.20</u> ft
Station <u>768+83</u>					Stream Bed Elev. <u>342.80</u> ft
BORING NO. <u>2-S</u>					Groundwater Elev.: _____
Station <u>769+34</u>					First Encounter <u>320.8</u> ft ▼
Offset <u>8.0 ft RT</u>					Upon Completion _____ ft
Ground Surface Elev. <u>356.80</u> ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ ft



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)

MODEL: 021-Soil Boring (Sheet)
FILE NAME: L:\021220661\0-00\WO_021DrawStructures\CADD_Sheet1.



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USER NAME = Blake Young	DESIGNED - DAC	REVISED -
	DRAWN - RAH	REVISED -
PLOT SCALE = N/A	CHECKED - DRC/DH	REVISED -
PLOT DATE = 3/30/2023	DATE - 2/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING AND ROCK CORE LOG - IV
STRUCTURE NO. 076-0034**

SCALE: SHEET 25 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	55
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / Ø SHEETS
F.A. 132	BY	POPE	31	24	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

B.M.: Railroad spike in 18" oak 98' Lt. Sta. 767+80 Elev. 352.15.
Existing structure: Built as S.B.I. Rte. 145, Sec. 103-A sta. 768+83 in 1934. R.C.D.G. and slab superstructure. Out to out waterable 24'-8", single span 48'-10". R.C.C. Closed abutments. Contractor shall widen the superstructure with R.P.C. Deck Bms on each side of existing superstructure. Widen the substructure as required. Traffic shall be maintained at all time. Structure No 076-0019.
Material to be salvaged: Bridge Rail.

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by propping. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 4".

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60.

Limits of Waterproofing Membrane System shall be from two feet beyond each end of deck beams and out to out of deck.

Shoulder transition to wingwall shall be shaped with broken concrete. Cost incidental.

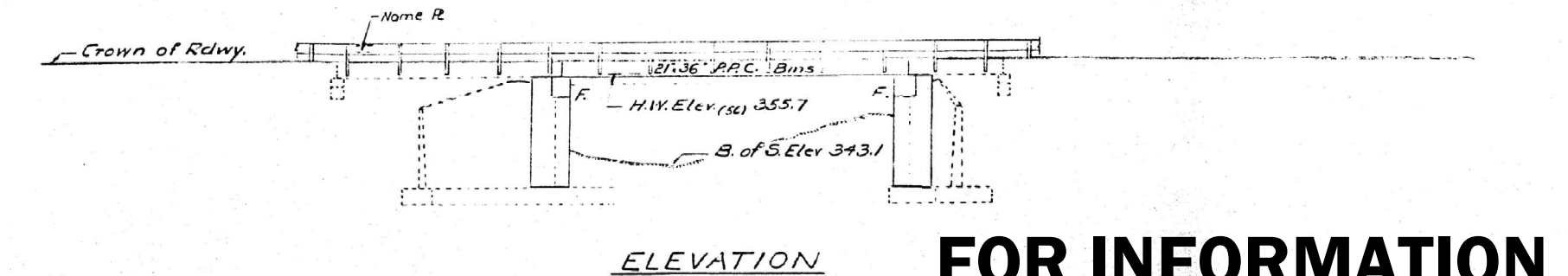
Expansion bolts shall consist of approved expansion anchors, providing a certified minimum proof load = 4,000 Lbs., and 3/4"x12" hooked bolts.

STATION 768+83.00
REBUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 132 SEC. 103A-BY
F.A. PROJECT: BH-F. 132(51)
LOADING HS20
STR. NO. 076-0019

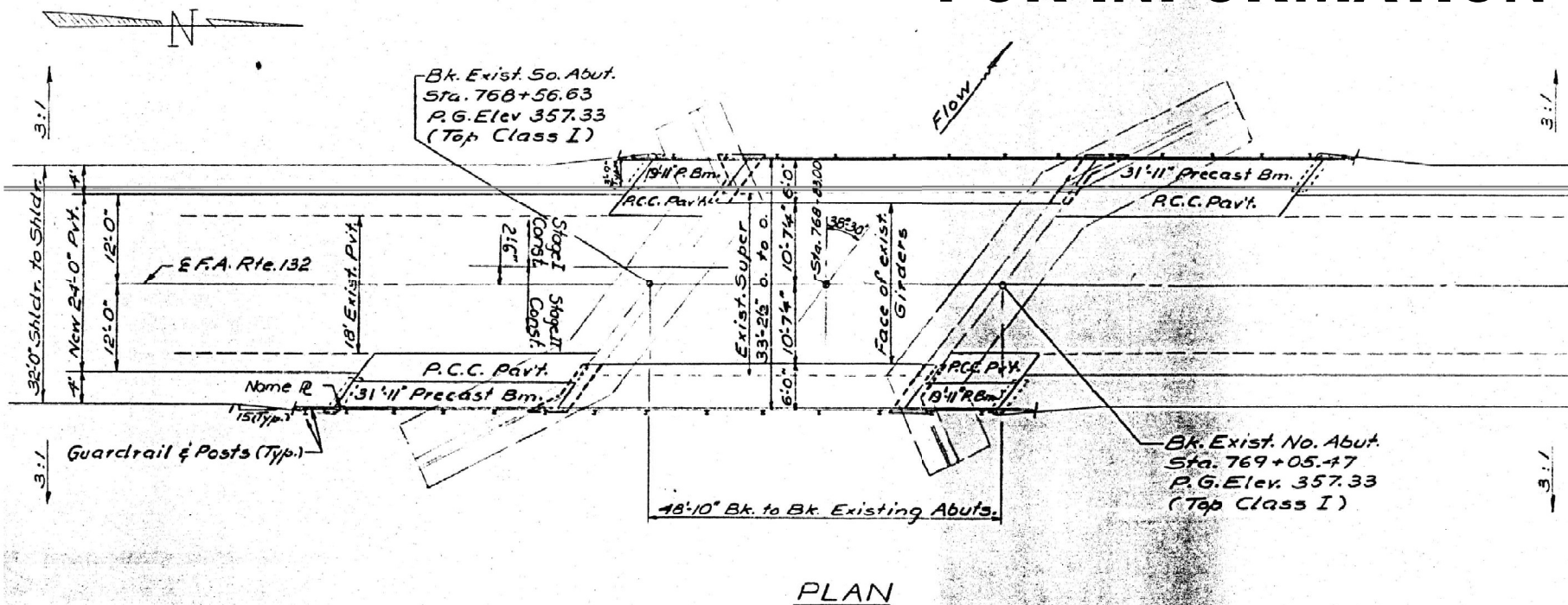
NAME PLATE
(See Std 2113)

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Biluminous Concrete Surface Course, Class I	Tons	39		39
Portland Cement Concrete Pavement 10'	Sq. Yd.	44		44
Pavement Fabric	Sq. Yd.	44		44
Concrete Removal	Cu. Yd.	14	7	21
Bridge Handrail Removal	Lin. Ft.	98		98
Expansion Tie Anchors 3/4 Inch	Each	42		42
Structure Excavation	Cu. Yd.		76	76
Class X Concrete	Cu. Yd.		28.2	28.2
Precast Concrete Bridge Slab	Sq. Ft.	388		388
Precast Prestressed Concrete Deck Beams (2" Depth)	Sq. Ft.	576		576
Steel Railing, Type 5-1	Lin. Ft.	200		200
Reinforcement Bars	Pound		1090	1090
Name Plates	Each	1		1
Portland Cement Mortar Fairing Course	Lin. Ft.	96		96
Waterproofing Membrane System	Sq. Yd.	192		192
Expansion Bolts 3/4 Inch	Each		70	70
Temporary Concrete Barrier	Lin. Ft.	50		50



FOR INFORMATION ONLY



WATERWAY INFORMATION

Drainage Area: 4.50 Sq. Mi. Low Grade Elev. 355.20' @ Sta. 763+100

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	2900	260*	300*	355.7	0	0	355.70	355.70
Base	100	3660	260	300	356.8	0	0	356.00	356.40
Overtopping	50								
Max. Calc.	500								

*Additional waterway opening is available over the road.

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

$f_c = 5,000$ psi
 $f'_{ci} = 4,000$ psi
 $f_s = 270,000$ psi (2" ϕ Strands)
 $f'_{si} = 189,000$ psi (2" ϕ Strands)

FIELD UNITS

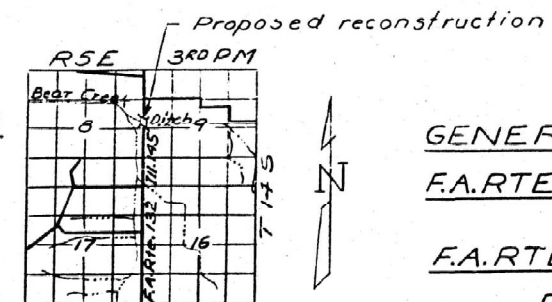
$f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

PRECAST UNITS

$f_c = 4,500$ psi
 $f_c = 1,800$ psi
 $f_s = 20,000$ psi

Loading: HS 20-44

Design Specifications: 1977 AASHTO, 1978, 1979 and 1980 Interim Specifications
Allow 25% for Future wearing surface.



GENERAL PLAN & ELEVATION

F.A. RTE. 132 OVER BEAR CREEK

DITCH

F.A. RTE. 132 SECTION 103A-BY

POPE COUNTY

STA. 768+83.00 9-109

DESIGNED	Mike Ryan
CHECKED	Jim Kolout
DRAWN	R. Doty
CHECKED	J.K.

EXAMINED	March 26, 1981 G.E. Thompson
PASSED	
APPROVED	



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS I

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

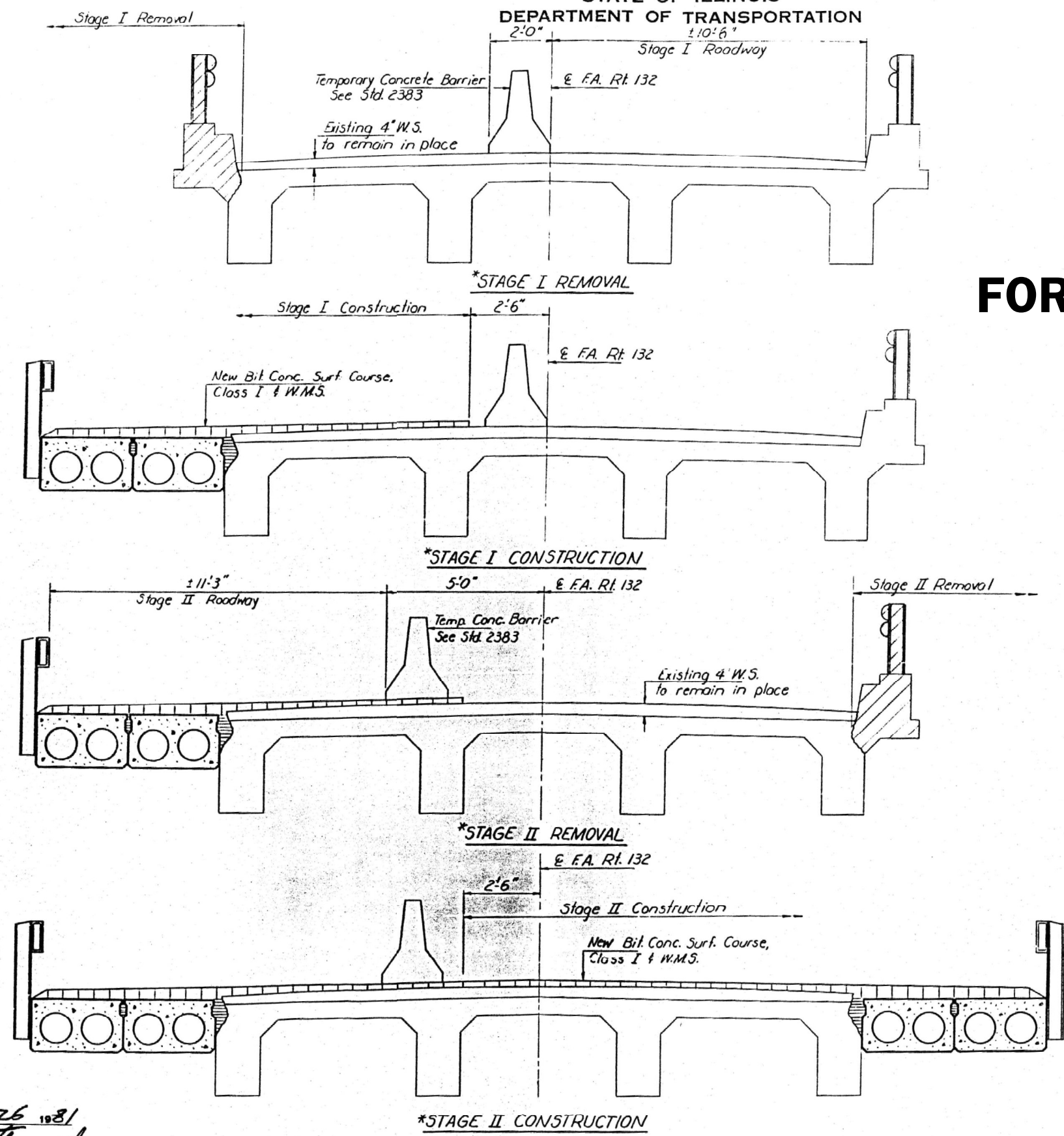
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	56
CONTRACT NO. 78792				

ILLINOIS FED. AID PROJECT

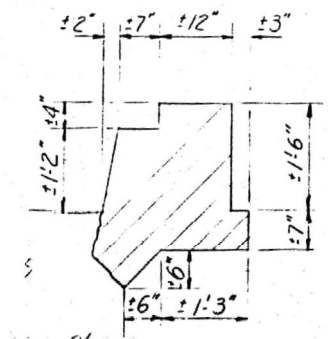
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103A	BY	POPE	31	25

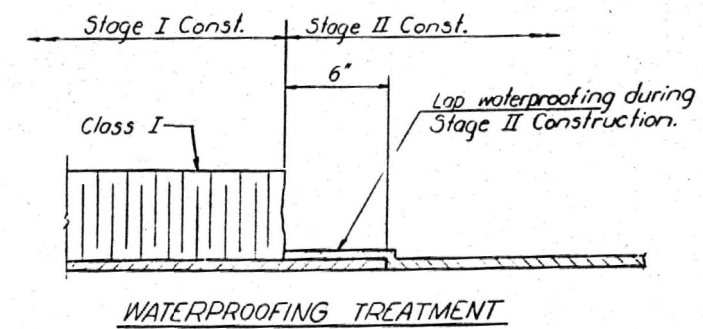
SHEET NO.
8 SHEET



FOR INFORMATION ONLY



TYPICAL SECTION SHOWING
CONCRETE REMOVAL OF CURB
Total length of Section = 48'-10"



DESIGNED	Mike Ryan
CHECKED	Jim Kohout
DRAWN	R. Doty
CHECKED	JK

March 26 1981
EXAMINED *Carl E. Hummer*
PASSED
APPROVED

* Looking North.

STAGE CONSTRUCTION DETAIL
F.A. RT. 132 SEC. 103A-BY
POPE COUNTY
STA 768.8300

USER NAME =	byoung	DESIGNED -	BLH	REVISED -	
		DRAWN -	BLH	REVISED -	
PLOT SCALE =	N/A	CHECKED -	JTH	REVISED -	
PLOT DATE =	3/30/2023	DATE -	2/22/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS II

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

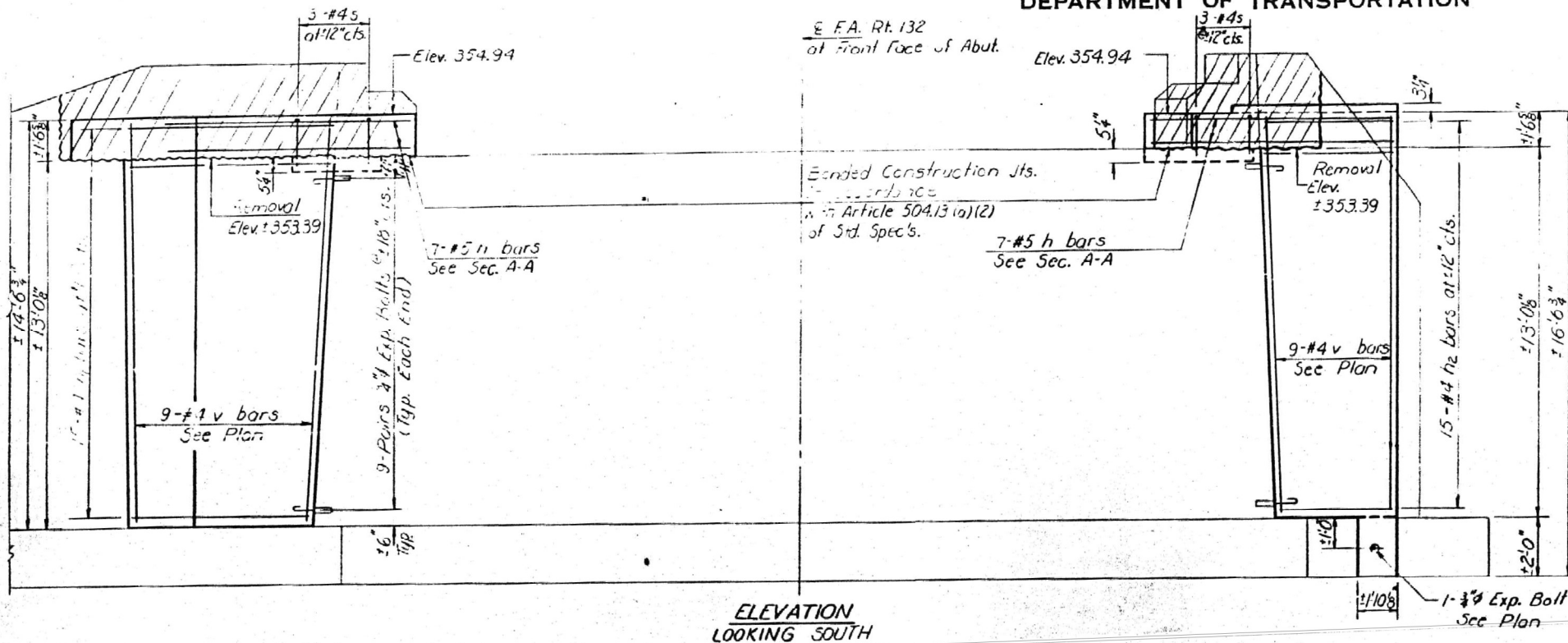
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	57
CONTRACT NO. 78792				

MODEL: Existing Plans II (Sheet 1)
FILE NAME: L:\01\22280661\00\W0_02\DrawStructures\CADD_Sheet\Existing Plans II.dgn

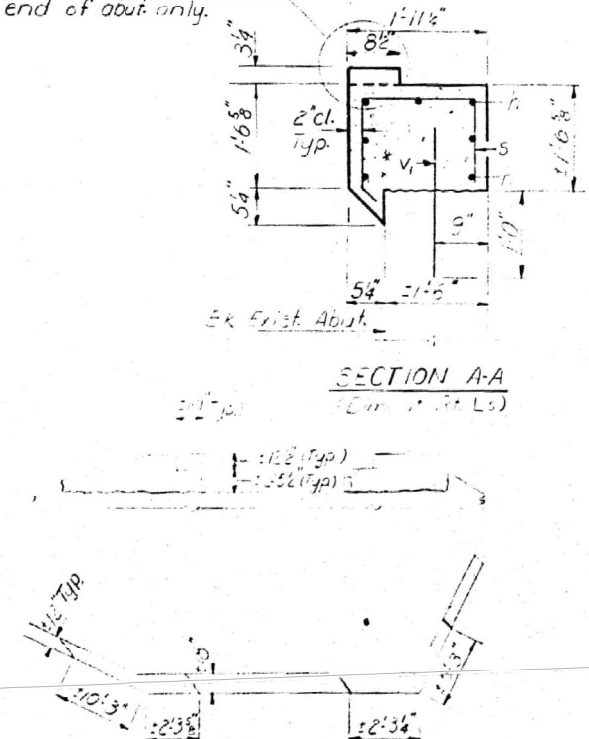
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
E.F.A. 132	103A-BY	POPE	31	30	3 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

NOTE:
Provide step at
west end of abut. only.

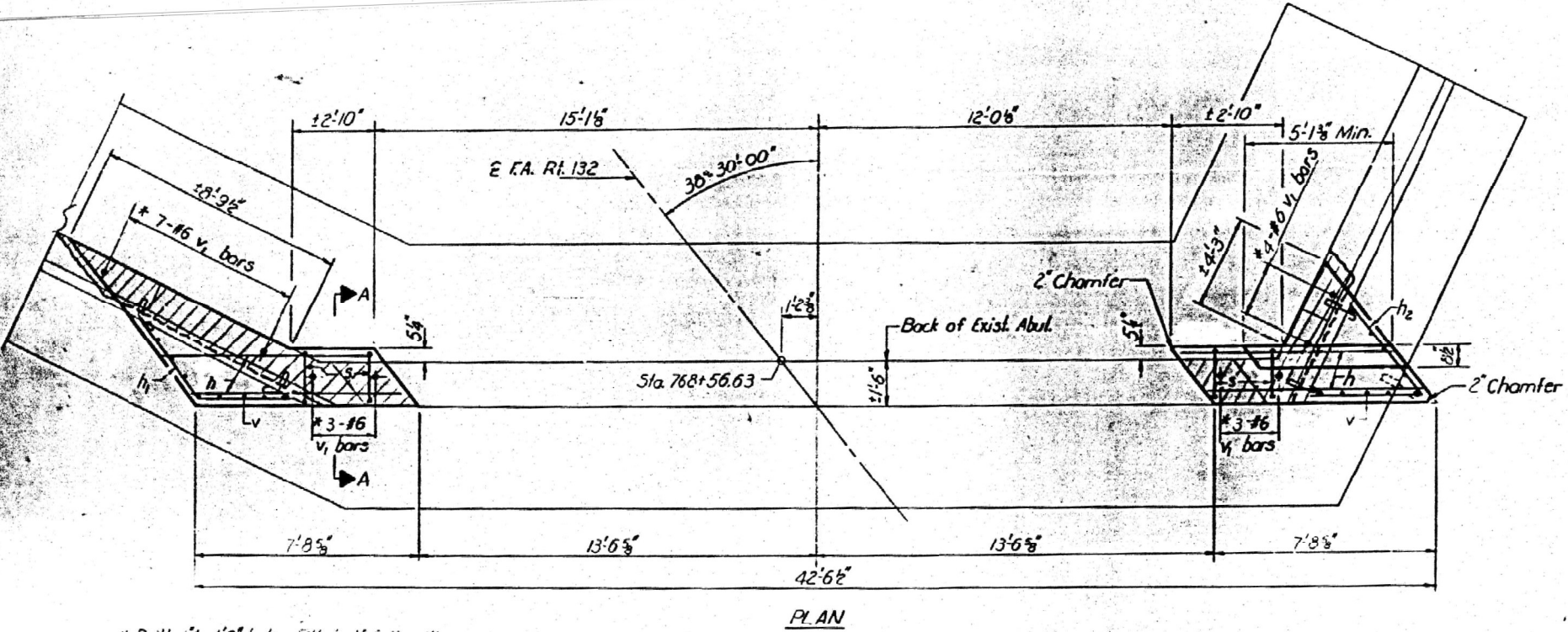


ELEVATION
LOOKING SOUTH



CONCRETE REMOVAL DETAILS

FOR INFORMATION ONLY

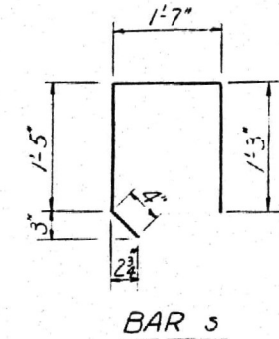


PLAN

* Drill 1'x1'-0" hole. Fill half full with epoxy before placement of v. bars. See Special Provisions for epoxy grout.

NOTES:
Hatched areas indicate Concrete Removal. Reinforcement extending into removed areas shall be cleaned and incorporated into the new construction. Expansion bolts shall be anchored in sound concrete. All edges shall have standard 2" chamfers except as noted.

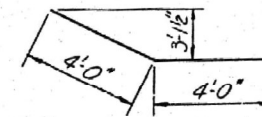
DESIGNED	Mike Ryan	EXAMINED	March 26, 2021 Carl E. Hummer
CHECKED	Jim Kohler	PASSED	
DRAWN	R. Doty	APPROVED	
CHECKED	JK		



BAR s



BAR h1



BAR h2

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
n	14	#5	7'-5"	—
n1	15	#4	8'-0"	—
h2	15	#4	8'-10"	△
s	6	#4	4'-7"	□
v	18	#4	14'-2"	—
v1	17	#6	2'-0"	—
Concrete Removal			Cu. Yd.	3
Class X Concrete			Cu. Yd.	12.5
Reinforcement Bars			Pound	520
Expansion Bolts			Each	37

SOUTH ABUTMENT
E.A. RT. 132 SEC. 103A-BY
POPE COUNTY
STA. 768+83.00

MODEL: Existing Plans III (Sheet 3)
FILE NAME: I:\DOT\2280661\20\100\DrawStructures\CADD_Sheet\Existing Plans III.dgn

USER NAME	= byoung	DESIGNED	- BLH	REVISED	-
PLOT SCALE	= N/A	DRAWN	- BLH	REVISED	-
PLOT DATE	= 3/30/2023	CHECKED	- JTH	REVISED	-
		DATE	- 2/22/2023	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS III

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

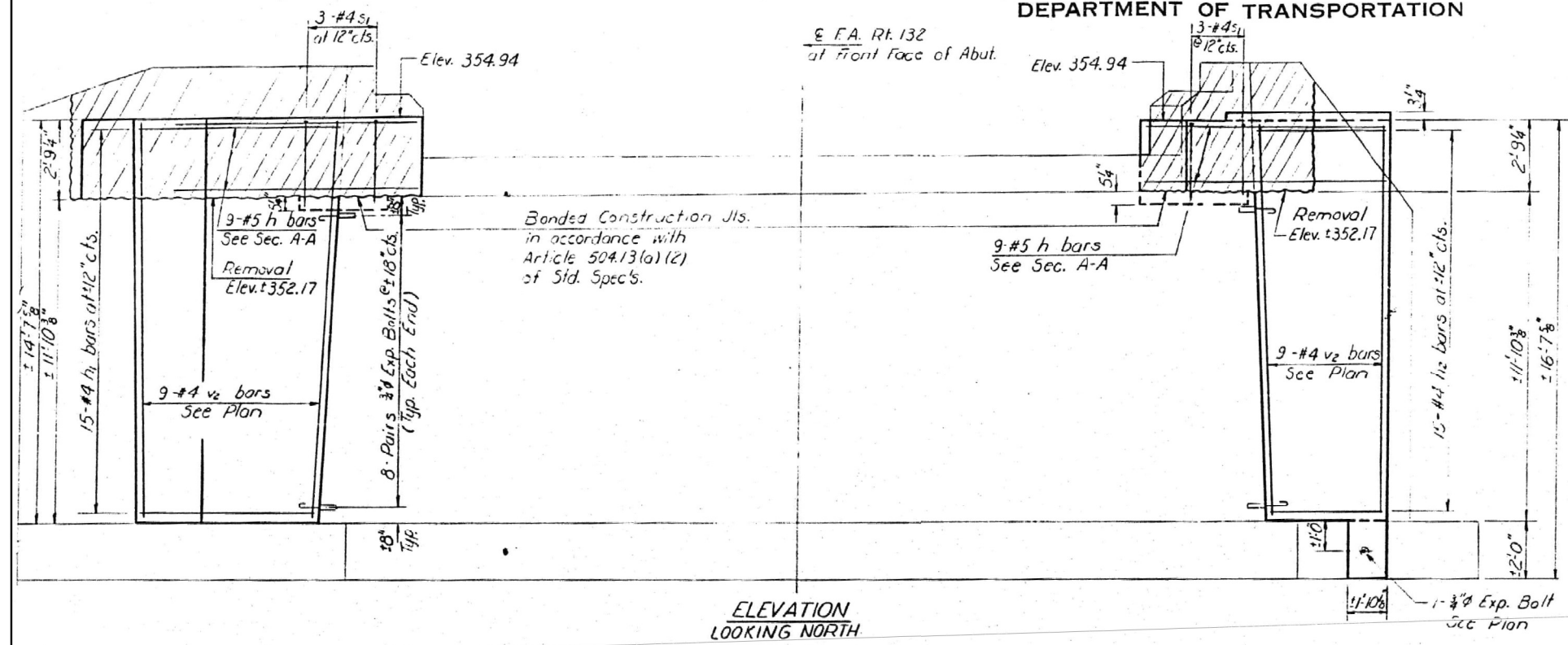
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	58
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

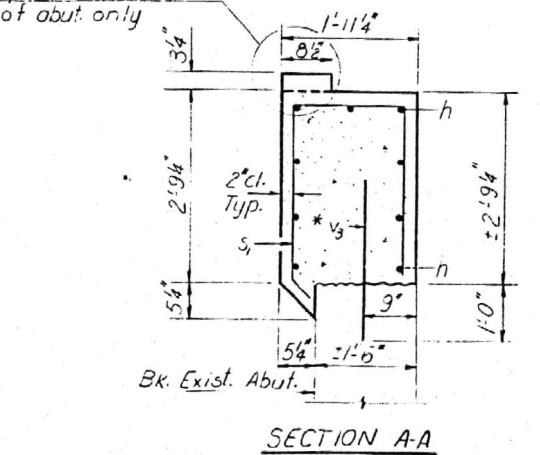
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103B-3	BY	POPE	31	31
F.A.P. RT. 132		ILLINOIS		FED. AID PROJECT

SHEET NO. 31
8 SHEETS

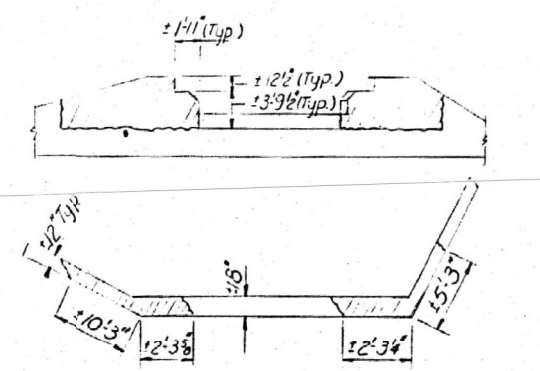
NOTE:
Provide step at
East end of abut. only



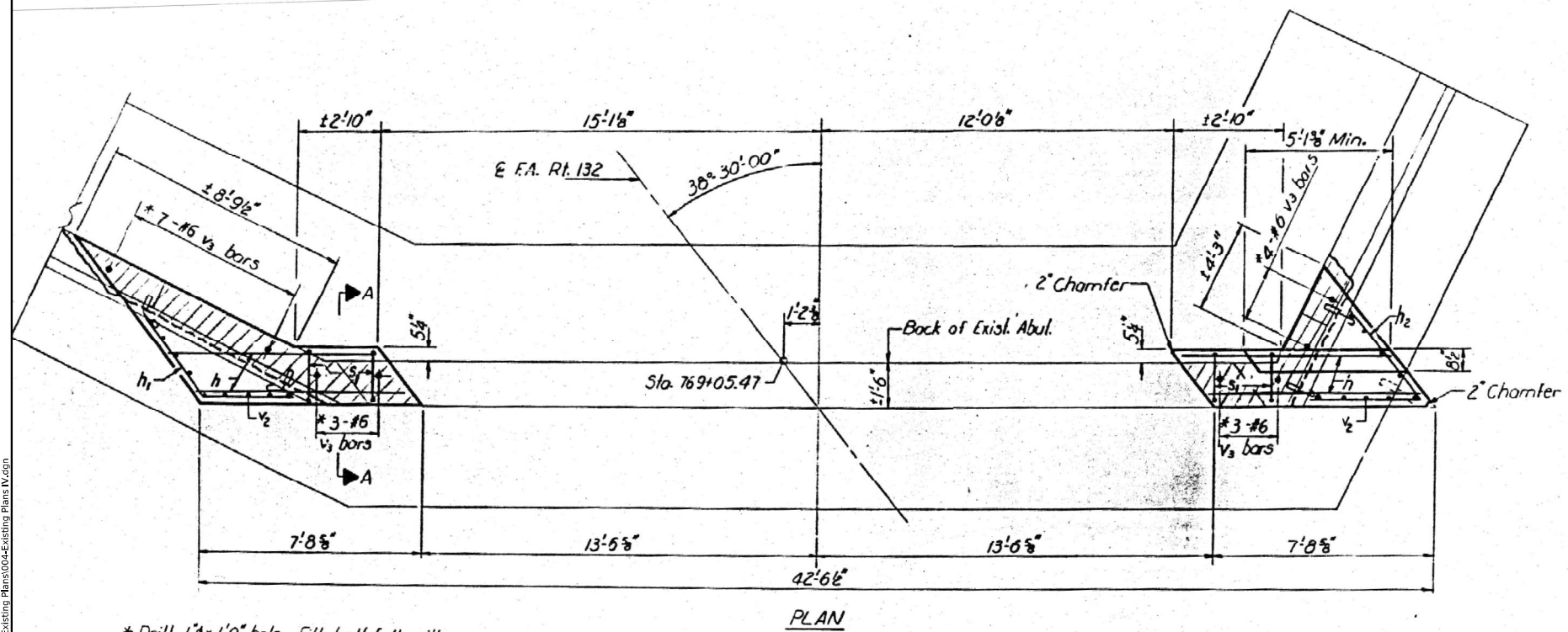
ELEVATION
LOOKING NORTH



SECTION A-A



CONCRETE REMOVAL DETAILS



PLAN

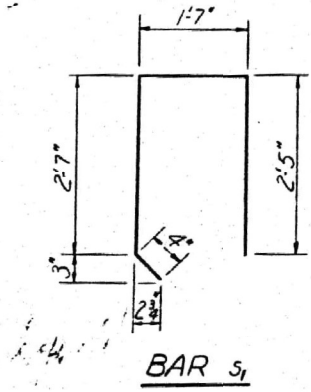
* Drill 1" x 1'-0" hole. Fill half full with epoxy before placement of v3 bars. See Special Provisions for epoxy grout.

NOTES:
Hatched areas indicate Concrete Removal. Reinforcement extending into removed areas shall be cleaned and incorporated into the new construction. Expansion bolts shall be anchored in sound concrete. All edges shall have standard 2" chamfers except as noted.

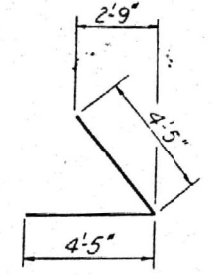
FOR INFORMATION ONLY

DESIGNED	Mike Ryan
CHECKED	Jim Kohout
DRAWN	R. Doty
CHECKED	JK

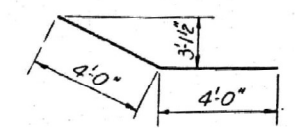
March 26, 2021
EXAMINED
PASSED
APPROVED



BAR s1



BAR h2



BAR h1

BILL OF MATERIAL

Bar No.	Size	Length	Shape
n	#5	7'-5"	—
n1	#4	8'-0"	∟
h2	#4	8'-10"	∟
s1	#4	6'-11"	∩
ve	#4	14'-4"	—
v3	#6	2'-6"	—
Concrete Removal			Cu. Yd. 4
Class X Concrete			Cu. Yd. 13.7
Reinforcement Bars			Pound 570
Expansion Bolts			Each 33

NORTH ABUTMENT
F.A. RT. 132 SEC. 103A-BY
POPE COUNTY
STA. 768+83.00

MODEL: Existing Plans IV (Sheet)
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PLOT DATE = 3/30/2023	CHECKED - JTH	REVISED -
	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

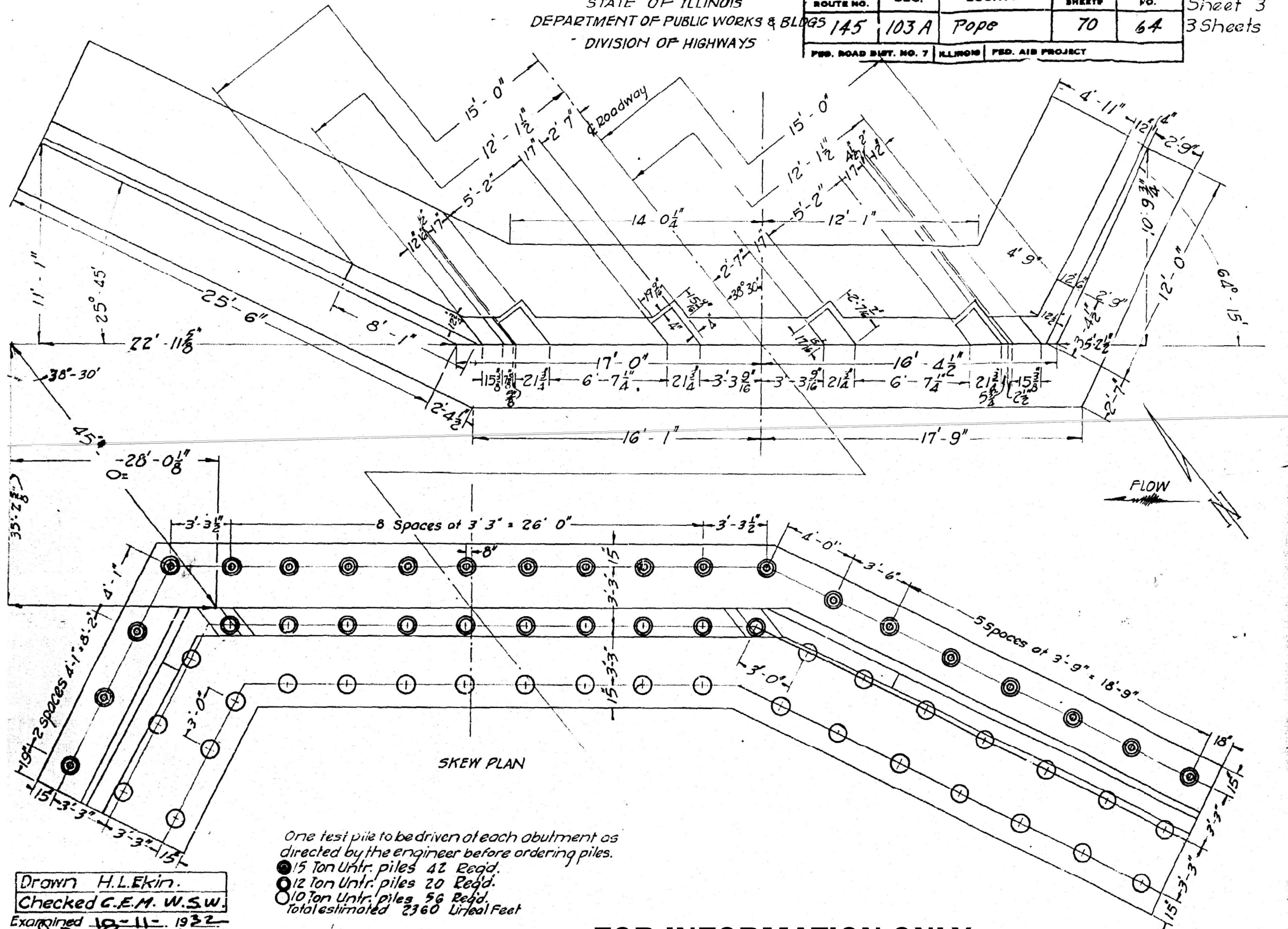
EXISTING PLANS IV

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	59
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
145	103 A	Pope	70	64
PUB. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Sheet 3
3 Sheets



Drawn H.L.Ekin.
Checked C.E.M. W.S.W.

Examined 10-11-1932
A.T. Buech
Bridge Engineer

Passed [Signature]
Engineer of Design

Approved [Signature]
Chief Highway Engineer.

FOR INFORMATION ONLY

BRIDGE OVER BEAR CREEK LATERAL
S.B.I. ROUTE 145 SEC. 103-A
POPE COUNTY
STA 768+83

MODEL: Existing Plans V (Sheet)
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PLOT DATE = 3/30/2023	CHECKED - JTH	REVISED -
	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS V

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	60
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

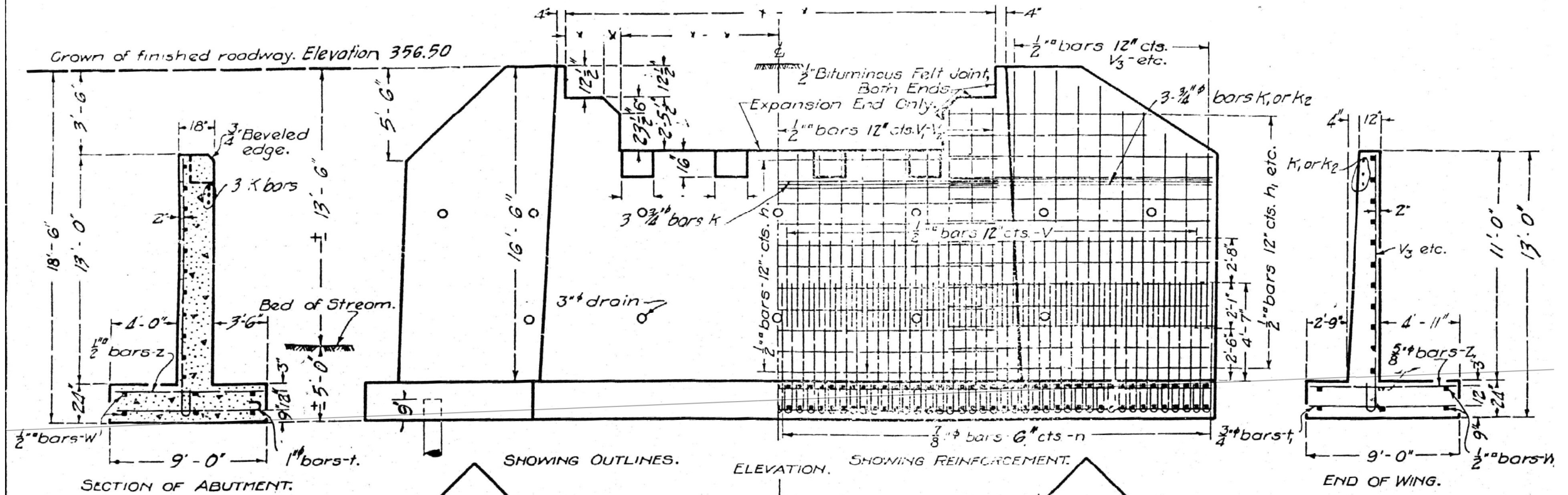
B.M. S.A.W in Root of 30" Elm 65' Rt
Sta 771+00 Elevation 350.63

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

R. C. ABUTMENTS FOR DECK GIRDER BRIDGE
HEIGHT OVER ALL 19 FEET 6"

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO
145	103A	Pope	70	64
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Sheet No. 2
3 Sheets.

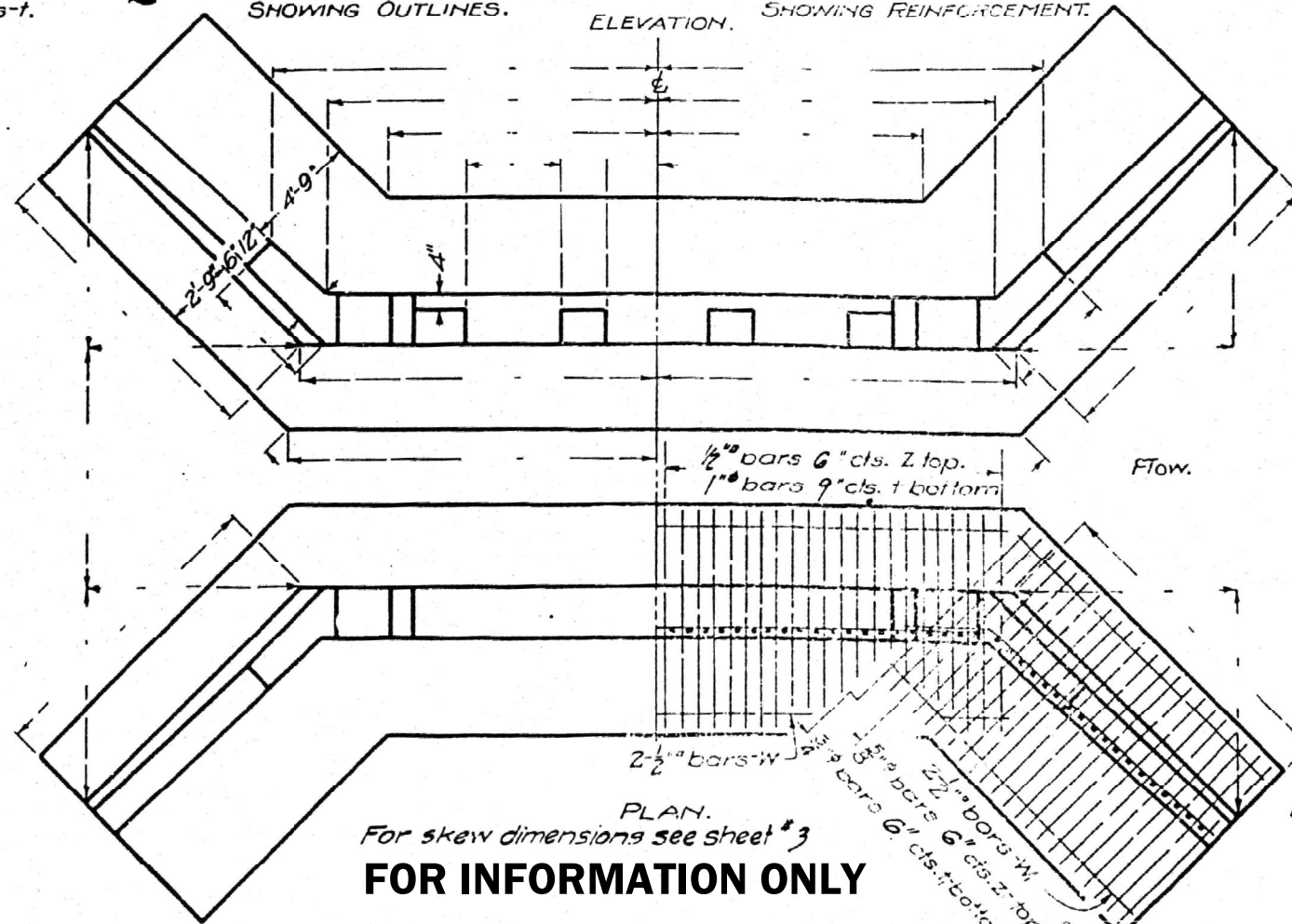


Class X concrete shall be used throughout.

All reinforcing steel shall be securely wired in place before concrete is poured.

BILL OF MATERIAL.

Bars	No.	Size	Length.
V	138	1/2"	4'-9"
V1	54	"	10'-6"
V2	10	"	12'-9"
V3	20	"	13'-6"
V4	16	"	12'-0"
V5	14	"	10'-6"
V6	18	"	9'-0"
h	52	1/2"	17'-6"
h1	24	"	27'-0"
h2	4	"	20'-9"
h3	4	1/2"	10'-9"
n	276	3/8"	8'-5"
h4	24	1/2"	13'-0"
t	90	1"	10'-3"
h	166	3/8"	8'-9"
z	130	1/2"	8'-9"
z1	152	3/8"	8'-9"
h5	4	1/2"	9'-6"
h6	4	1/2"	3'-6"
k	12	3/4"	17'-6"
w	24	1/2"	17'-9"
w1	12	"	27'-9"
k1	6	3/4"	14'-0"
k2	6	3/4"	27'-6"
Reinforcing Steel-Lbs.			16770
Concrete Cu. Yds.			190.1
w2	12	1/2"	14'-6"



FOR INFORMATION ONLY

BRIDGE OVER BEAR CREEK LATERAL
S. B. I ROUTE 145 SEC 103A.
POPE COUNTY
STA. 768+83

COMPUTED	C. C. Wood
CHECKED	[Signature]
DRAWN	[Signature]
CHECKED	C. C. W.
ASSEMBLED	H. L. Egan
CHECKED	G. E. M. W. S. W.

EXAMINED 10-11-1932
[Signature]
PASSED [Signature]
APPROVED [Signature]
CHIEF HIGHWAY ENGINEER

USER NAME = byoung	DESIGNED - BLH	REVISED -
	DRAWN - BLH	REVISED -
PLOT SCALE = N/A	CHECKED - JTH	REVISED -
PLOT DATE = 3/30/2023	DATE - 2/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

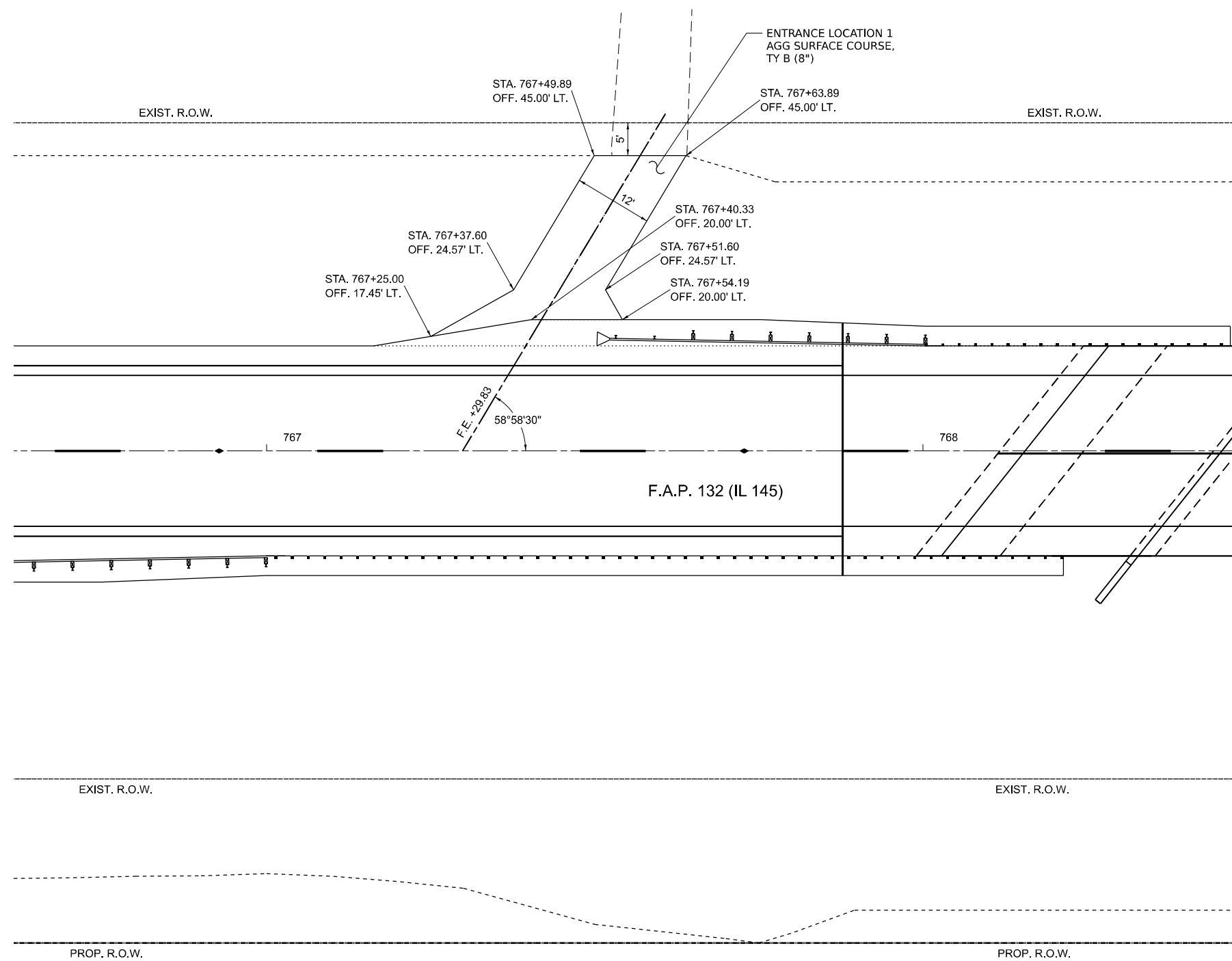
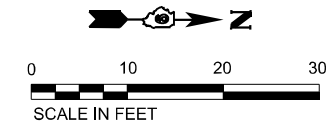
EXISTING PLANS VI

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	61
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

1154.

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MODEL: E:\m\p\10 (Sheet)
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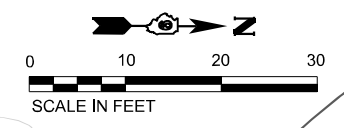
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	DRAWN -	REVISED -
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PLOT DATE = 3/30/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

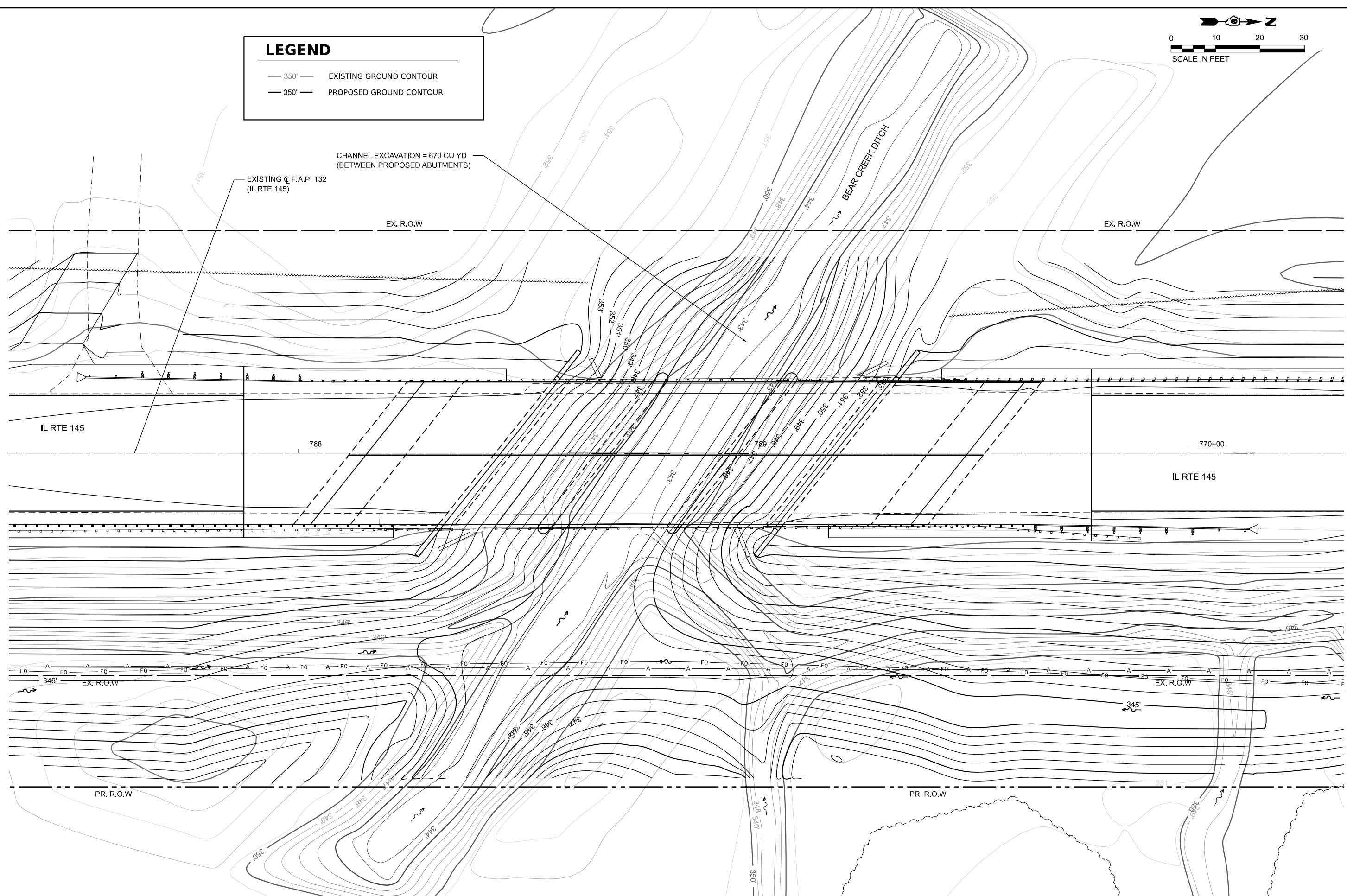
**F.A.P. 132 (ILLINOIS ROUTE 145)
DETAILS - ENTRANCE**

SCALE: 1"=10' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1038-3	POPE	76	62
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				



LEGEND	
— 350' —	EXISTING GROUND CONTOUR
— 350' —	PROPOSED GROUND CONTOUR



MODEL: Grading Detail - Grading Detail (Sheet)
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	DRAWN -	REVISED -
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PLOT DATE = 3/30/2023	DATE -	REVISED -

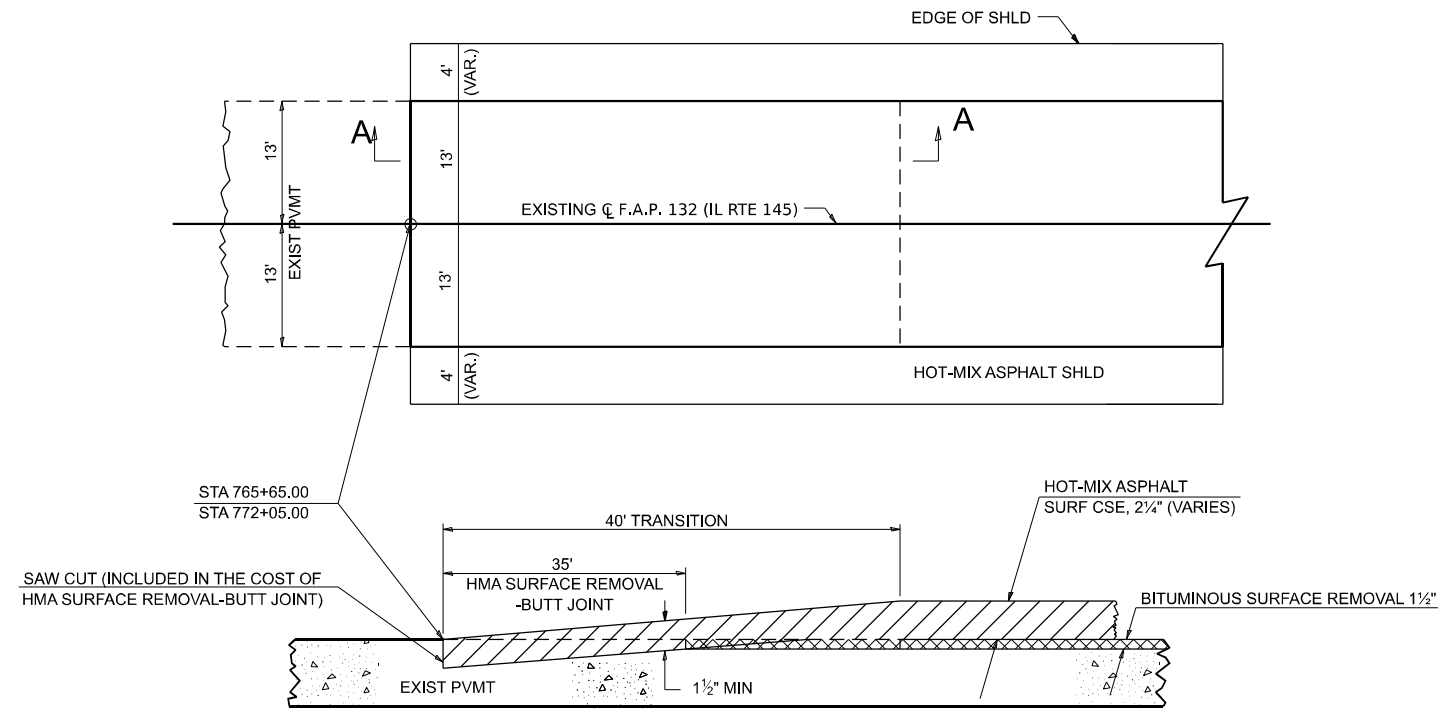
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 132 (ILLINOIS ROUTE 145)
GRADING DETAIL

SCALE: 1"=10' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1038-3	POPE	76	63
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

BUTT JOINT WITH MILLING

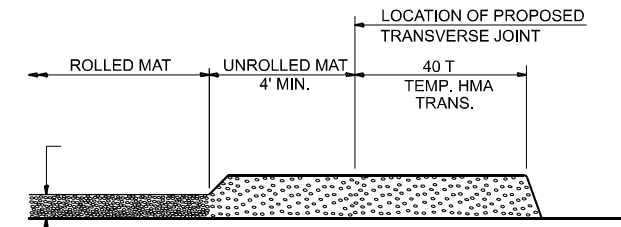


SECTION A-A

DRAWN	03-09-17
REVISED	02-18-20
REVISED	10-21-21
REVISED	05-26-22

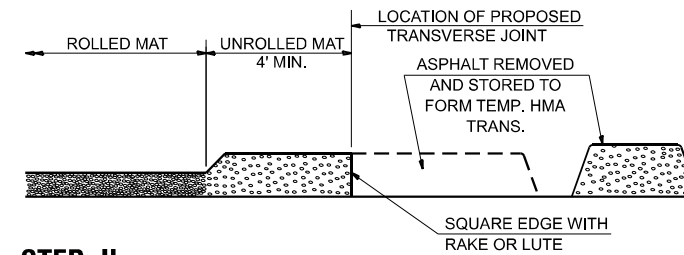
STD. 9-14

TEMPORARY HOT-MIX ASPHALT TRANSITIONS



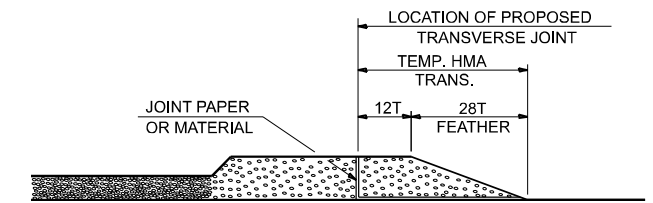
STEP I

1. PLACE HOT-MIX ASPHALT MAT, LENGTH 40 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



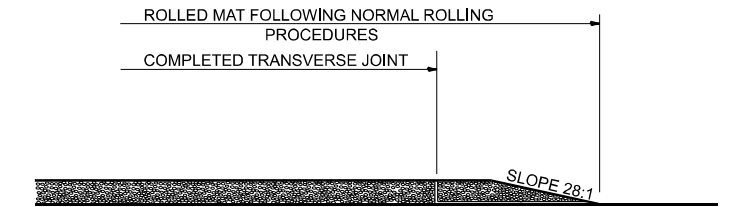
STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



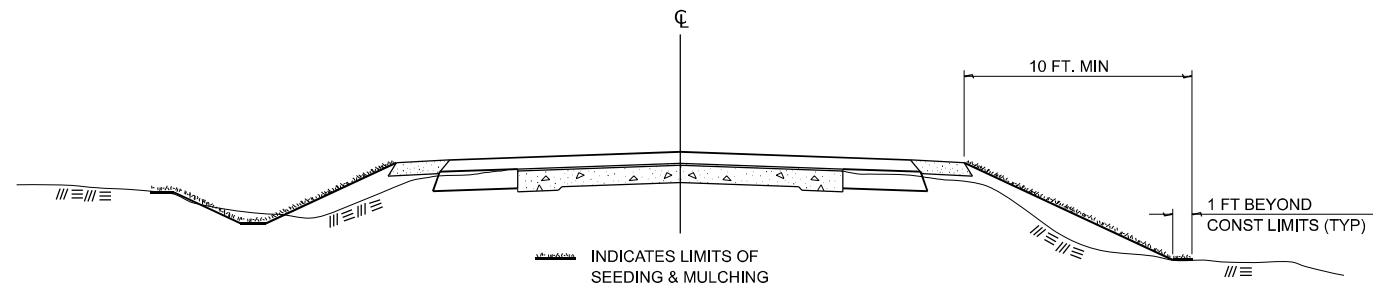
STEP IV

1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

DRAWN	02-15-89
REVISED	01-09-07
REVISED	10-21-21
REVISED	05-26-22

STD. 9-18

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 SEEDED SHALL BE CLASS 7.

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

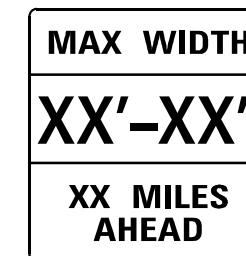
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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

WIDE LOAD SIGN



W12-I103 (48 X 48)

SERIES D ALPHABET, NO BORDER, BLACK ON WHITE

NOTES

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

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

FOR WORK ON ALL STRUCTURES, THE WIDTH SHOWN ON THE W12-I103 SIGN SHALL BE XX'-X" OR DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

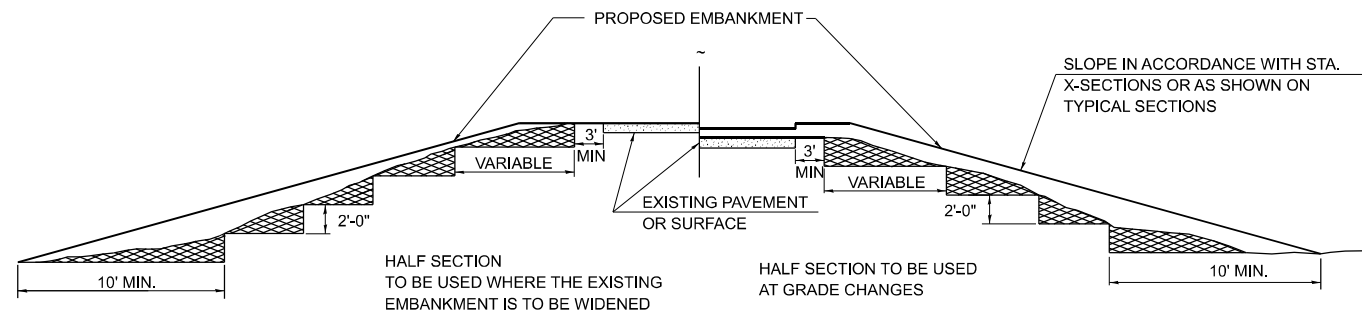
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 132 (ILLINOIS ROUTE 145)
DETAILS - D9 STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	64
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



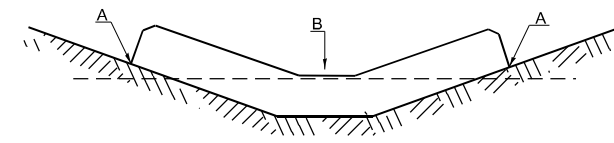
STEPS SHALL BE CUT IN THE EXISTING SLOPE IN ACCORDANCE WITH ART. 205.03 EXCEPT THAT THE REQUIREMENT THAT STEPS SHALL BE CUT INTO THE EXISTING SLOPE BEFORE THE CONSTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 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

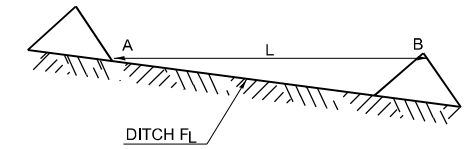
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION
B = THE LOW POINT IN CENTER OF CHECK

DRAWN	09-01-99
REVISED	05-08-08
REVISED	10-21-21
REVISED	05-27-22

STD. 9-28

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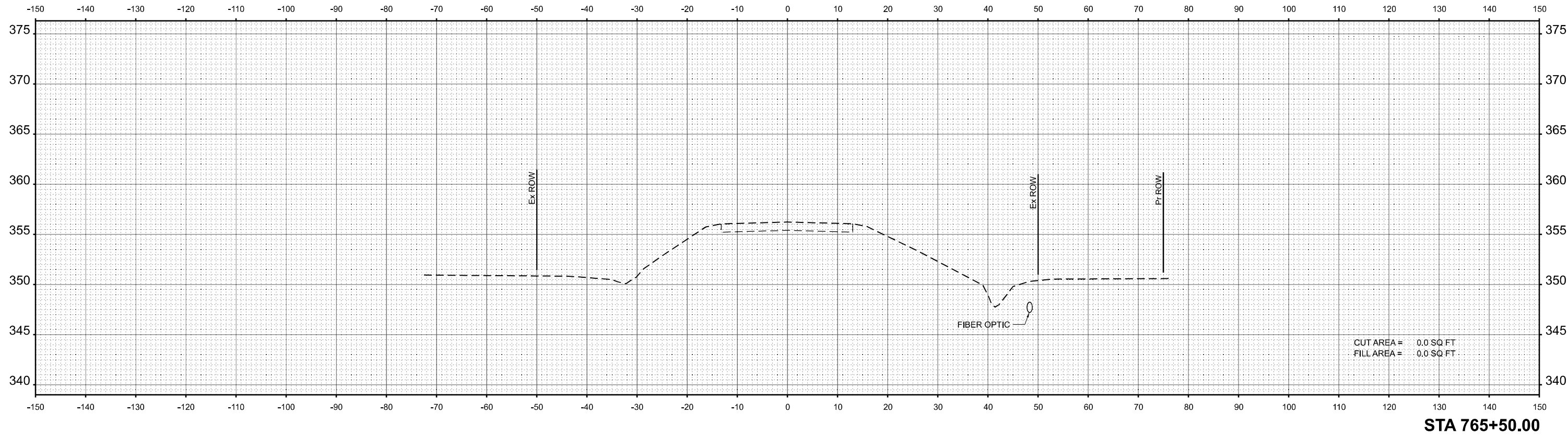
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P 132 (ILLINOIS ROUTE 145)
DETAILS - D9 STANDARDS

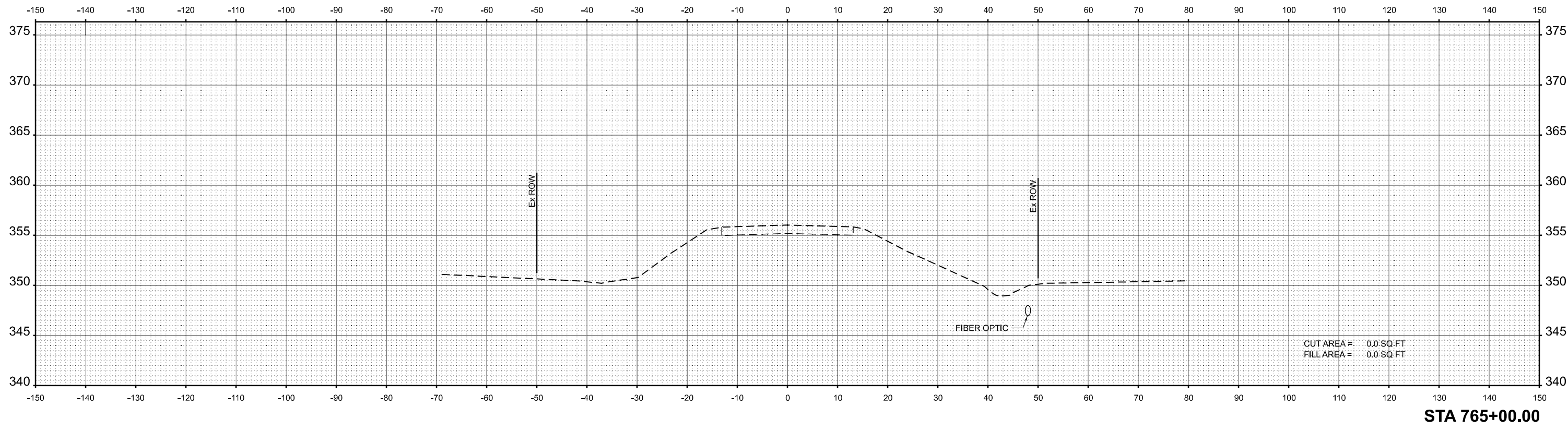
SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	65
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

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



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



MODEL: X:\145-765-00-00 (8)rev11

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PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

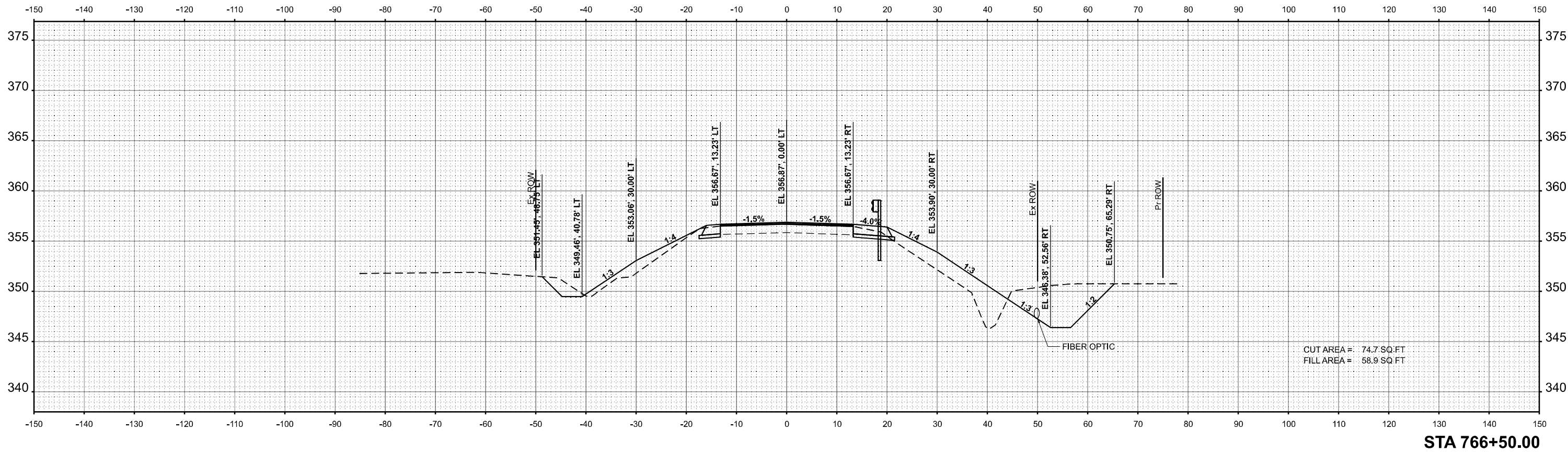
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 132 (ILLINOIS ROUTE 145)
CROSS SECTIONS

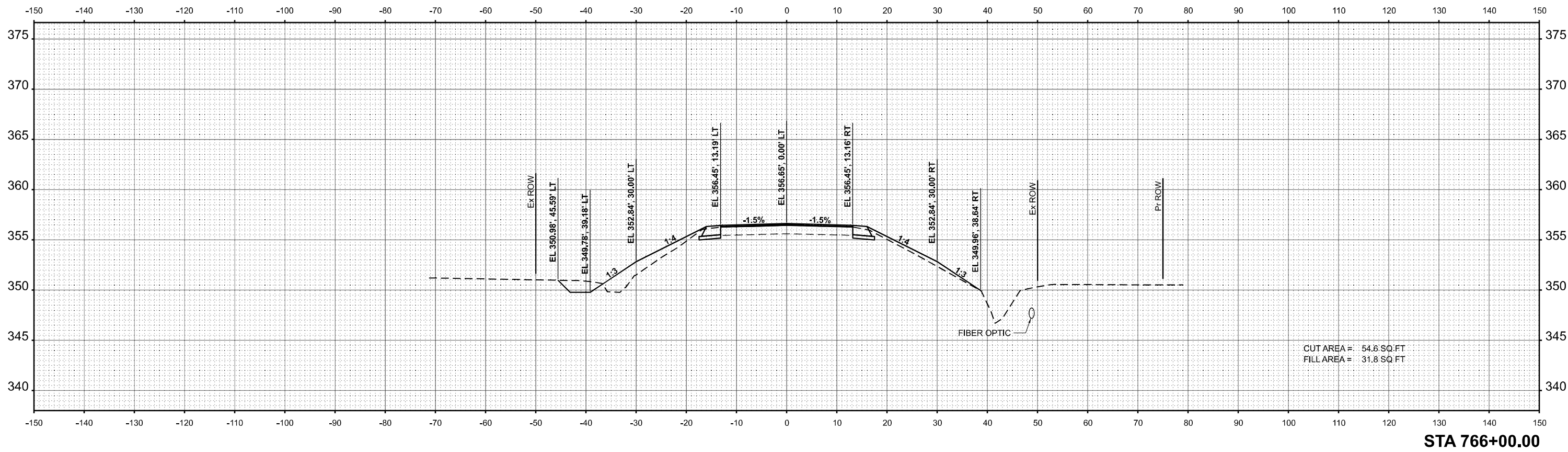
SCALE: 1"=10' SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	103B-3	POPE	76	66
CONTRACT NO. 78792				
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 CHECKED		



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	DATE -	REVISED -

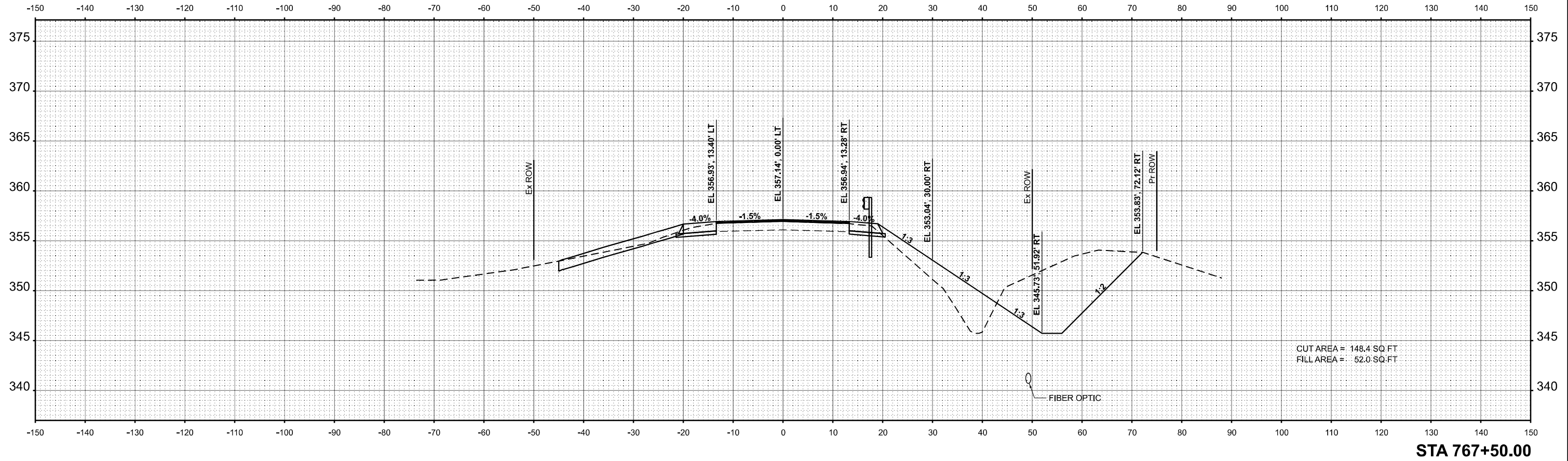
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 132 (ILLINOIS ROUTE 145)
CROSS SECTIONS

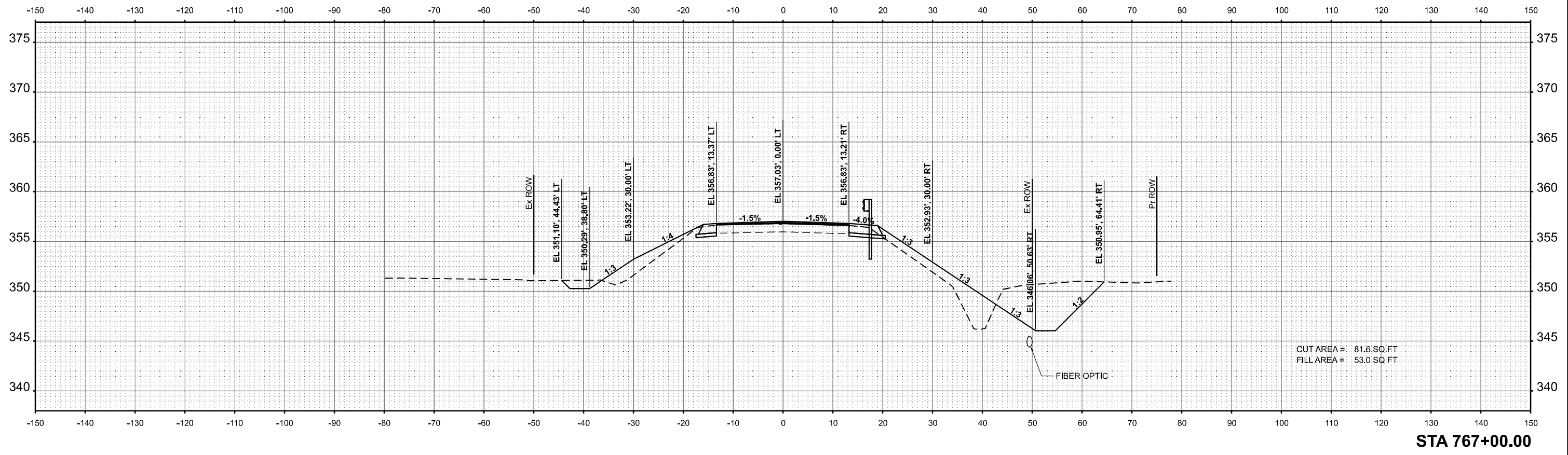
SCALE: 1"=10' SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 1038-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 67
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

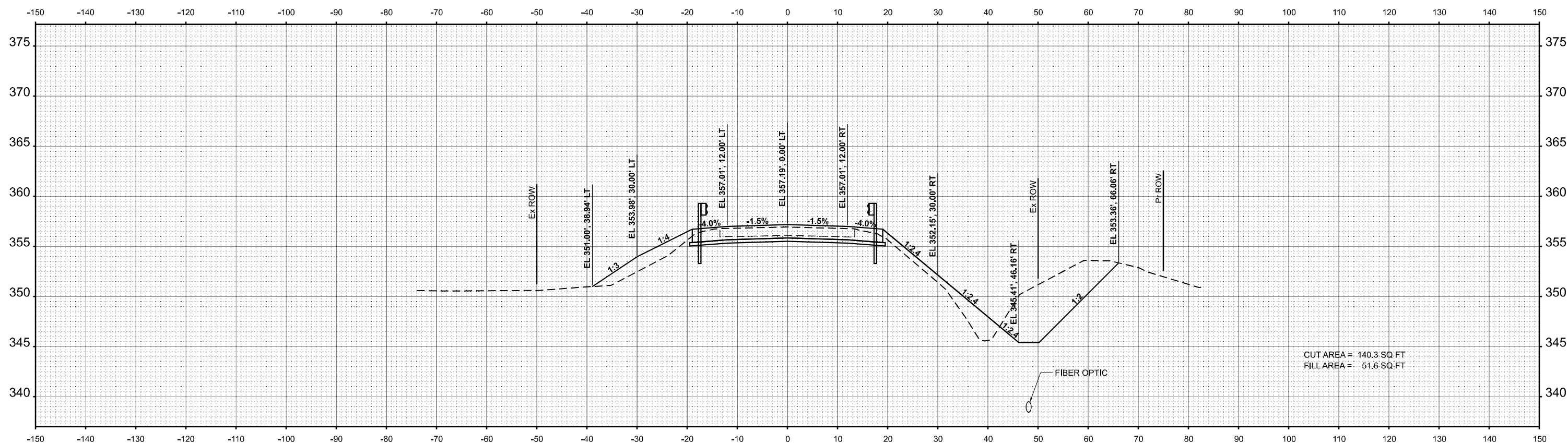
F.A.P. 132 (ILLINOIS ROUTE 145) CROSS SECTIONS			
SCALE: 1"=10'	SHEET 3	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE. 132	SECTION 1038-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 68
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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STA 768+00.00

USER NAME = byoung	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

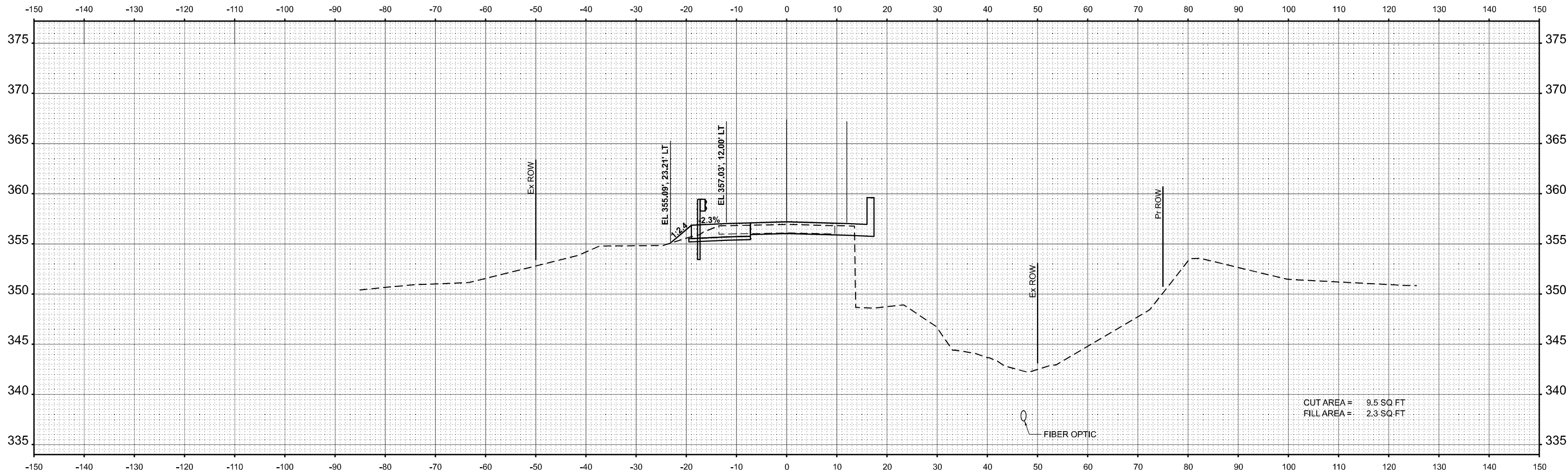
F.A.P. 132 (ILLINOIS ROUTE 145) CROSS SECTIONS			
SCALE: 1"=10'	SHEET 4	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 69
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: X:\145-789-00-01\B1\11.dwg
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STA 768+50.00

USER NAME = byoung	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
CROSS SECTIONS**

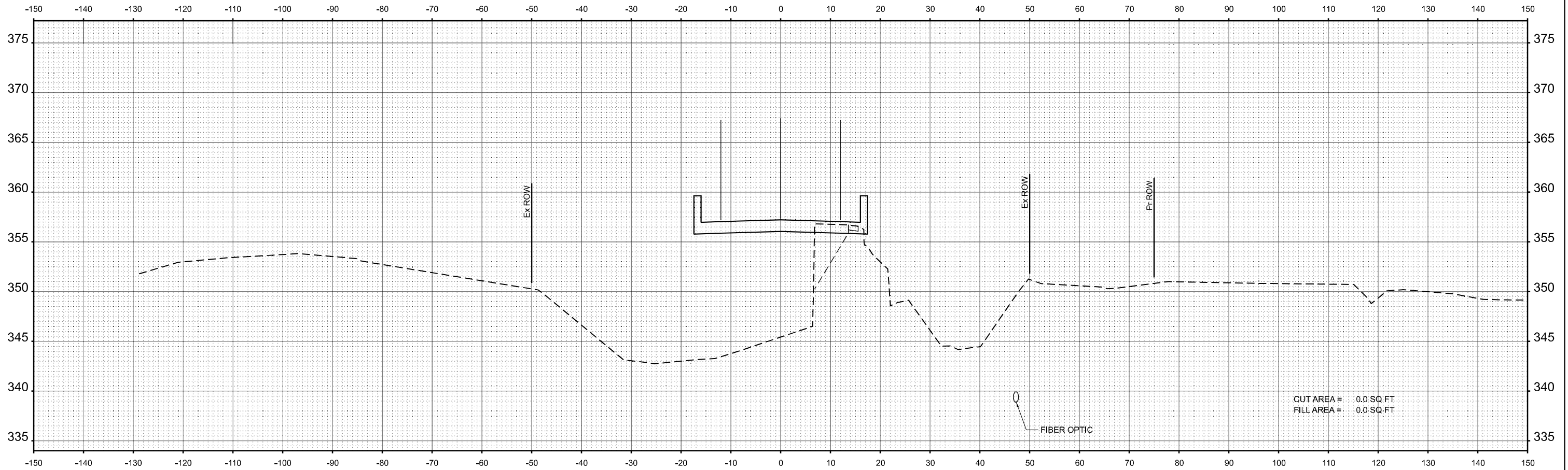
SCALE: 1"=10' SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 70
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: X:\145-789-00-01\B1\11.dwg
FILE NAME: L:\DOT\22056\0300\02\Draw\Roadway\CAD_Sheets\DT78792\hws.dgn



CUT AREA = 0.0 SQ.FT
FILL AREA = 0.0 SQ.FT

STA 769+00.00

USER NAME = byoung	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 3/30/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
CROSS SECTIONS**

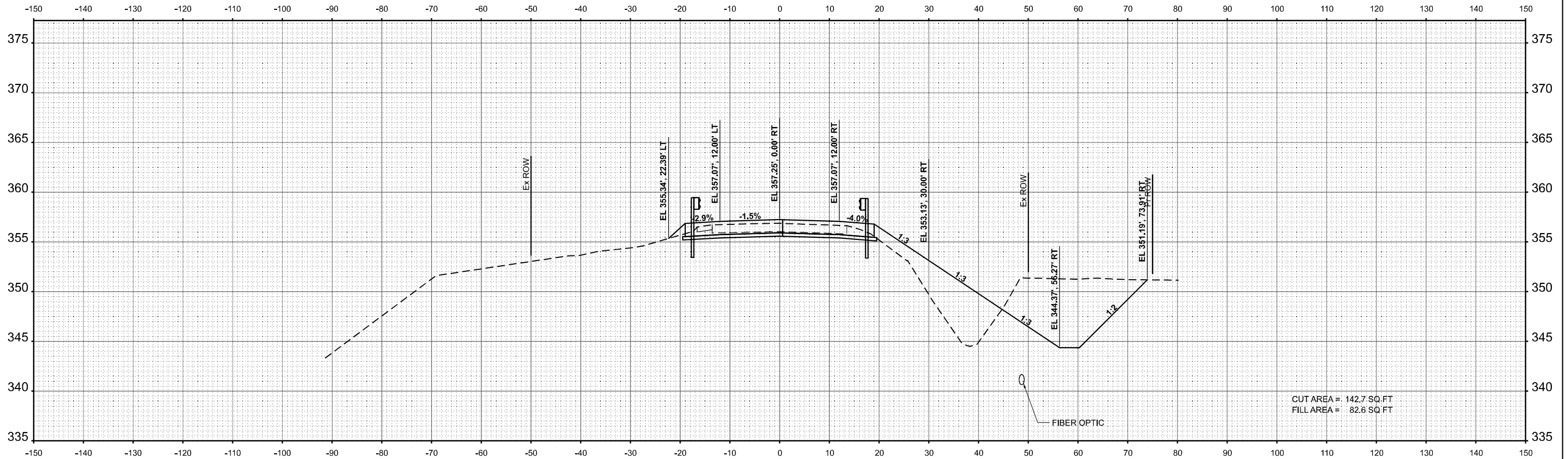
SCALE: 1"=10' SHEET 6 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 71
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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STA 769+50.00

USER NAME = byoung	DESIGNED -	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
 CROSS SECTIONS**

SCALE: 1"=10' SHEET 7 OF 11 SHEETS STA. TO STA.

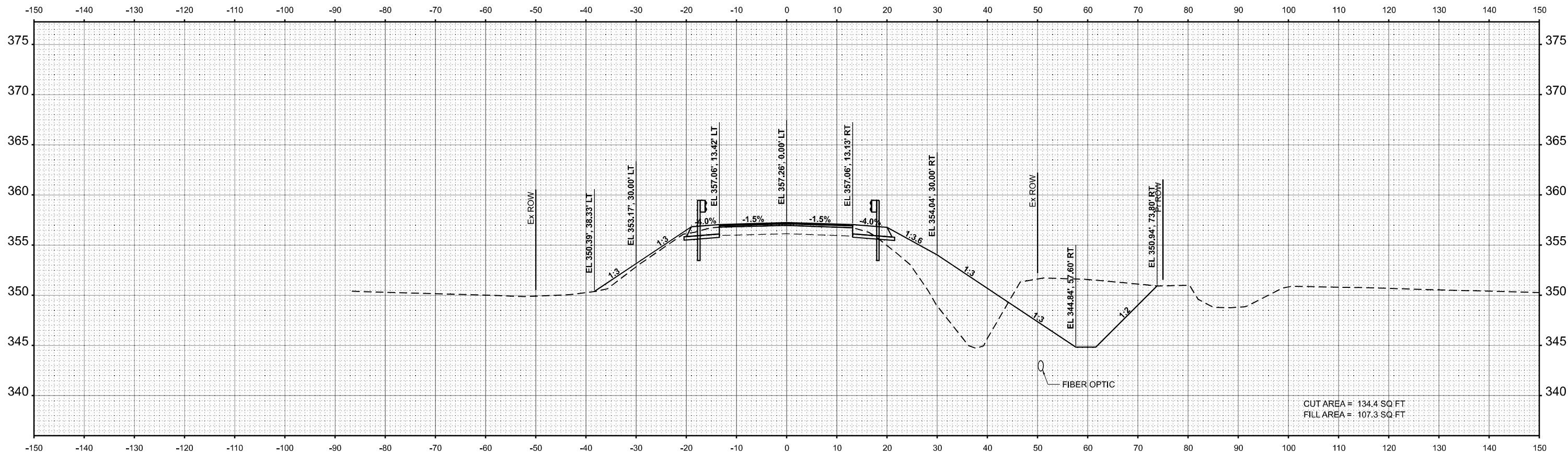
F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 72
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

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

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

MODEL: X:\145-770-00.00\Bk\ell

FILE NAME: L:\DOT\2006\0300\03\Draw\Roadway\CADD_Sheets\DR7872\ellhws.dgn



STA 770+00.00

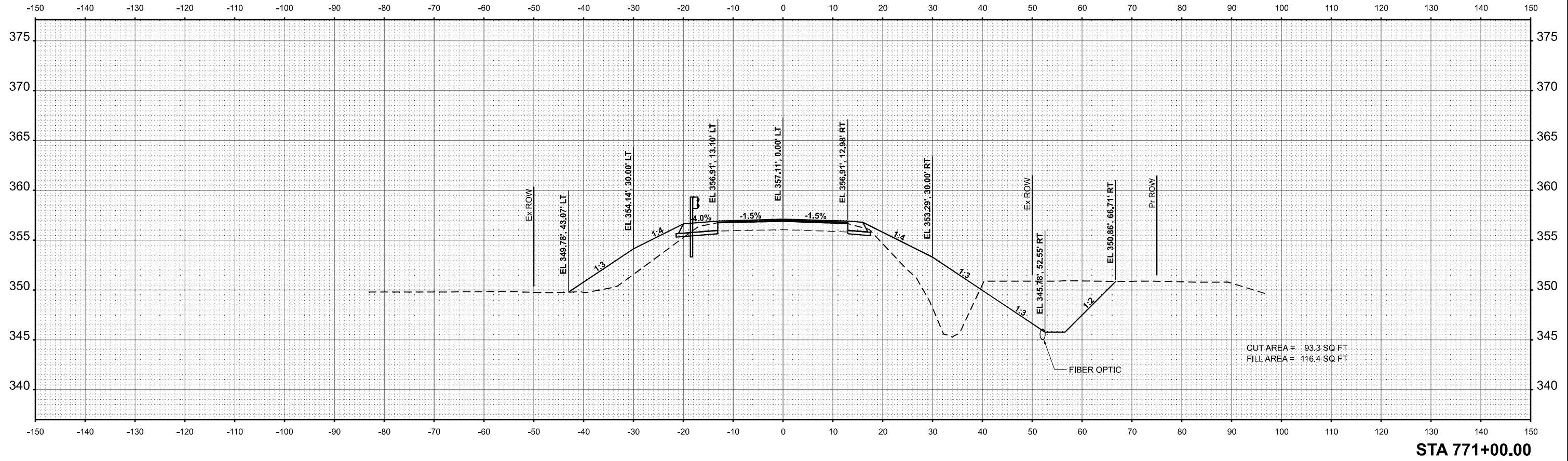
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PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

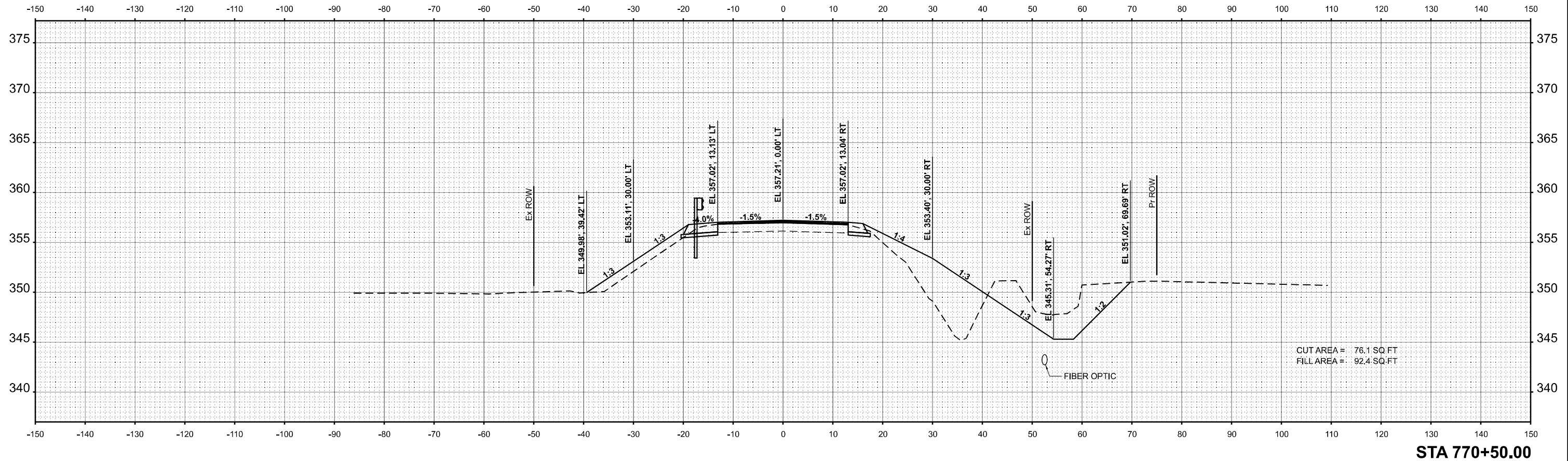
F.A.P. 132 (ILLINOIS ROUTE 145) CROSS SECTIONS			
SCALE: 1"=10'	SHEET 8	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE. 132	SECTION 103B-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 73
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED BY	DATE



ORIGINAL SURVEY NO.	SURVEYED BY	DATE



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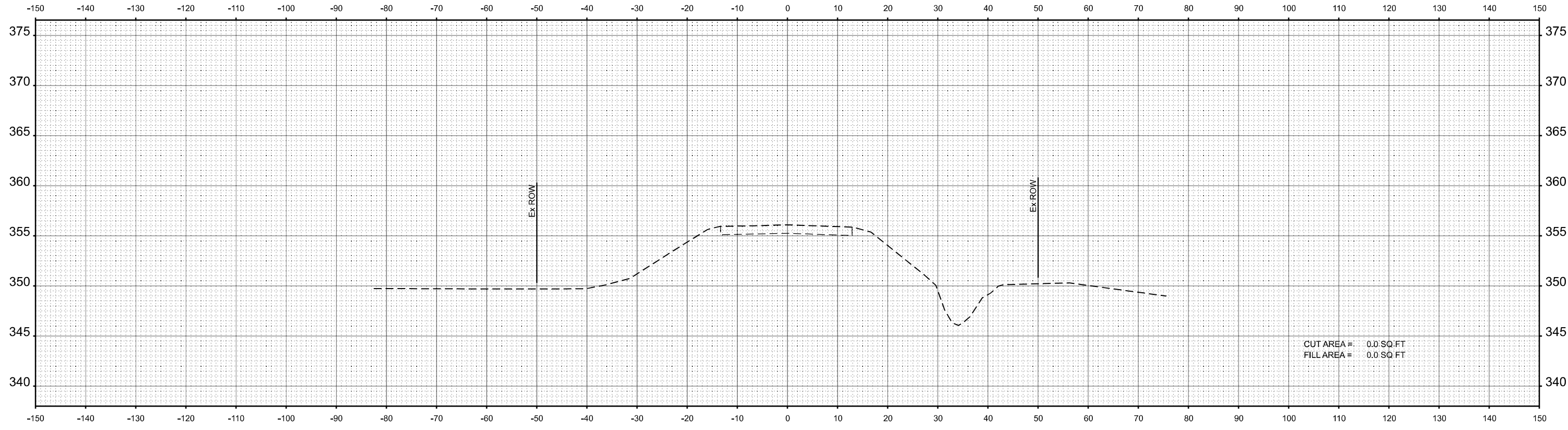
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PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 132 (ILLINOIS ROUTE 145) CROSS SECTIONS	
SCALE: 1"=10'	SHEET 9 OF 11 SHEETS STA. TO STA.

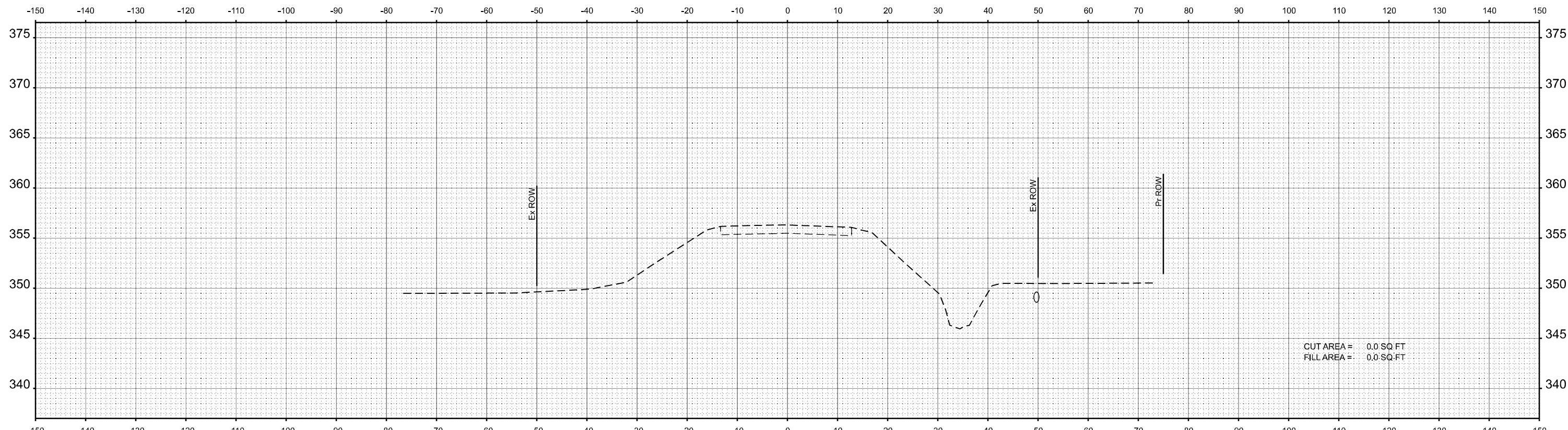
F.A.P. RTE. 132	SECTION 1038-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 74
CONTRACT NO. 78792				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



STA 773+00.00

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



STA 772+50.00

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USER NAME = byoung	DESIGNED -	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 132 (ILLINOIS ROUTE 145)
CROSS SECTIONS**

SCALE: 1"=10' SHEET 11 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 132	SECTION 1038-3	COUNTY POPE	TOTAL SHEETS 76	SHEET NO. 76
CONTRACT NO. 78792			ILLINOIS FED. AID PROJECT	