

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	1
*FAP 840, FAP 709		ILLINOIS	CONTRACT NO. 70G71	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO.(s) 3-6

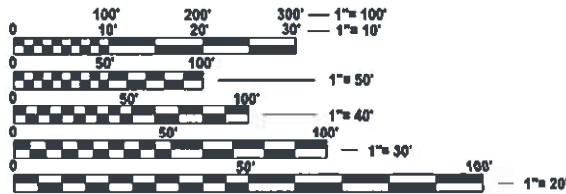
PROPOSED
HIGHWAY PLANS

FAP ROUTE 840 (IL 49), FAP ROUTE 709 (US 136)
SECTION (121)BR-1,(114)BR-1
PROJECT STP-WRFR(704)
BRIDGE DECK OVERLAY
VERMILION COUNTY

C-95-045-23

CURRENT TRAFFIC DATA

	US 136	IL 49
2024 ADT	1,550	1,150
2034 ADT	1,850	1,250
2044 AM DHV	110	120
2044 PM DHV	180	110
P.U. & P.C. %	90.3	78.3
SU %	3.2	4.3
MU %	6.5	17.4



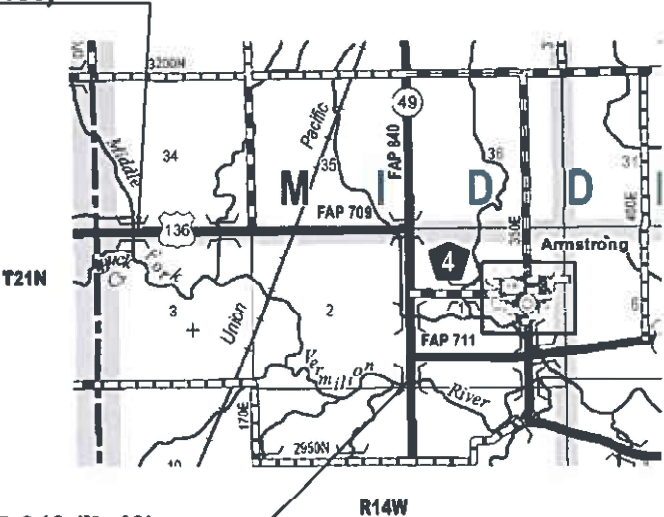
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TIM BRANDENBURG
PROJECT MANAGER: JEFF M. SHERER

CONTRACT NO. 70G71

S.N. 092-0058, FAP 709 (US 136)
STA. 69+29.83
BRIDGE DECK OVERLAY



S.N. 092-0196 FAP 840 (IL 49)
STA. 708+01.13
BRIDGE DECK OVERLAY

GROSS LENGTH = 485.08 FT. = 0.092 MILE
NET LENGTH = 485.08 FT. = 0.092 MILE

D-95-031-23



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 28, 2025
[Signature] REGIONAL ENGINEER
March 21, 2025
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT
March 21, 2025
[Signature] 5
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS/ HIGHWAY STANDARDS
2	GENERAL NOTES
3-6	SUMMARY OF QUANTITIES
7-29	S.N.092-0058 REPAIR PLANS
30-40	S.N. 092-0196 REPAIR PLANS
41	DETAIL OF WIDTH RESTRICTION SIGNING
42-46	DETAIL OF WIDTH RESTRICTION SIGN PLACEMENT

LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF RD OPERATIONS, 2L, 2W, 15' FROM PAVEMENT EDGE
701006-05	OFF RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF RD MOVING OPERATION, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L 2W, DAY ONLY FOR SPEEDS 45 MPH OR MORE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATION
701316-14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR 45 MPH OR MORE
701321-19	LANE CLOSURE, 2L 2W - BRIDGE REPAIR + BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT

G.N. -406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	IL 49 & US 136	IL 49 & US 136
Mixture Use	Surface Mainline & Shoulder (2")	Bottom 6" of HMA Shoulder
AC/PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 9.5	IL 19.0
Friction Aggregate	Mix C	N.A.
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	3000	3000
Material Transfer Device (Required ?)	NO	NO

MODEL: INDEX GEN NOTE (Sheet)
FILE NAME: c:\p\work\pilot\stereofm\0872429\570671-Sht-IndexGenNote.dgn

	USER NAME = Jeff.Sherer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					*	(121)BR-1,(114)BR-1	VERMILION	46	2
		CHECKED -	REVISED -					*FAP 840, FAP 709		CONTRACT NO. 70G71		
	PLOT DATE = 1/14/2025	DATE -	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MODEL: SOQ 1 [Sheet]
FILE NAME: c:\pwwork\jwtdolshere\jmd0872429\DS70G71-Slt-SOQ.dgn

				CONSTRUCTION CODE	
				VERMILION COUNTY BRIDGE DECK OVERLAY F.A.P. 709 (US 136) S.N. 092-0058 STA. 69+29.83 80% FED 20% STATE	VERMILION COUNTY BRIDGE DECK OVERLAY F.A.P. 840 (IL 49) S.N. 092-0196 STA. 708+01.13 80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0059 RURAL	0059 RURAL
20200100	EARTH EXCAVATION	CU YD	138.0	16.0	122.0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	532.0	266.0	266.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	531.0	238.0	293.0
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	49.0	24.5	24.5
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	272.0	0.0	272.0
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	215.0	215.0	0.0
48203005	HOT-MIX ASPHALT SHOULDERS, 2"	SQ YD	215.0	215.0	0.0
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	471.0	69.0	402.0
50102400	CONCRETE REMOVAL	CU YD	9.5	9.5	0.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	10.6	10.6	0.0
50300300	PROTECTIVE COAT	SQ YD	2,218.0	1,144.0	1,074.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,040.0	1,040.0	0.0
50800515	BAR SPLICERS	EACH	24.0	24.0	0.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	68.0	68.0	0.0
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	10.0	10.0	0.0

* SPECIALTY ITEMS

	USER NAME = Jeff.Sherer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					*	(121)BR-1,(114)BR-1	VERMILION	46	3
		CHECKED -	REVISED -		SCALE: NONE			*FAP 709, FAP 840				
	PLOT DATE = 1/15/2025	DATE -	REVISED -		SHEET 1	OF 4	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MODEL: SOQ 2 [Sheet]
FILE NAME: c:\p\work\p\w\td\sherer\md0872429\ID570G71-Sht-SOQ.dgn

				CONSTRUCTION CODE	
				VERMILION COUNTY BRIDGE DECK OVERLAY F.A.P. 709 (US 136) S.N. 092-0058 STA. 69+29.83 80% FED 20% STATE	VERMILION COUNTY BRIDGE DECK OVERLAY F.A.P. 840 (IL 49) S.N. 092-0196 STA. 708+01.13 80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0059 RURAL	0059 RURAL
52100520	ANCHOR BOLTS, 1"	EACH	20.0	20.0	0.0
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	300.0	300.0	0.0
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.0	4.0	0.0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.0	4.0	0.0
63200310	GUARDRAIL REMOVAL	FOOT	710.0	710.0	0.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6.0	3.0	3.0
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	2.0	1.0	1.0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2.0	1.0	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	0.5	0.5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2.0	1.0	1.0
70107025	CHANGEABLE MESSAGE SIGN	EACH	56.0	28.0	28.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,412.5	662.5	750.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,412.5	662.5	750.0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4.0	2.0	2.0

* SPECIALTY ITEMS

	USER NAME = Jeff.Sherer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					*	(121)BR-1,(114)BR-1	VERMILION	46	4
		CHECKED -	REVISED -		SCALE: NONE			SHEET 2 OF 4 SHEETS				
	PLOT DATE = 1/14/2025	DATE -	REVISED -		STA. TO STA.			ILLINOIS FED. AID PROJECT				

MODEL: SOQ 3 [Sheet]
FILE NAME: c:\p\work\pvt\total\hmg\0872429\D570371-Sht-SOQ.dgn

				CONSTRUCTION CODE	
				VERMILION COUNTY BRIDGE DECK OVERLAY F.A.P. 709 (US 136) S.N. 092-0058 STA. 69+29.83 80% FED 20% STATE	VERMILION COUNTY BRIDGE DECK OVERLAY F.A.P. 840 (IL 49) S.N. 092-0196 STA. 708+01.13 80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0059 RURAL	0059 RURAL
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4.0	2.0	2.0
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0	4.0	0.0
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10.0	10.0	0.0
X0325748	ACRYLIC COATING	SQ YD	15.0	0.0	15.0
X0325749	FIBER WRAP	SQ FT	132.0	0.0	132.0
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,909.0	865.0	1,044.0
X6020050	INLET BOXES TO BE ADJUSTED (SPECIAL)	EACH	4.0	4.0	0.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0	1.0	0.0
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	10.0	10.0	0.0
Z0012111	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY 2 1/2"	SQ YD	1,921.0	1,119.0	802.0
Z0012117	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 4"	SQ YD	272.0	0.0	272.0
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2,193.0	1,119.0	1,074.0
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	96.5	96.5	0.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0	0.5	0.5
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	11.2	2.0	9.2

* SPECIALTY ITEMS

	USER NAME = Jeff. Sherer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						*	(121)BR-1,114(BR-1)	VERMILION	46	5
		CHECKED -	REVISED -		*FAP 709, FAP 840		CONTRACT NO. 70G71						
	PLOT DATE = 1/14/2025	DATE -	REVISED -		SCALE: NONE	SHEET 3	OF 4	SHEETS	STA.	TO STA.			
					ILLINOIS FED. AID PROJECT								

MODEL: SOQ 4 [Sheet]
FILE NAME: c:\pw_work\pwtdolshere\jmd0872429\ID570G71-Slt-SOQ.dgn

				CONSTRUCTION CODE	
				VERMILION COUNTY BRIDGE DECK OVERLAY F.A.P. 709 (US 136) S.N. 092-0058 STA. 69+29.83 80% FED 20% STATE	VERMILION COUNTY BRIDGE DECK OVERLAY F.A.P. 840 (IL 49) S.N. 092-0196 STA. 708+01.13 80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0059 RURAL	0059 RURAL
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	152.3	120.1	32.2
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2,060.0	1,105.0	955.0
Ø Z0076600	TRAINEES	HOUR	1,000	1,000	
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	20.0	0.0	20.0
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000	

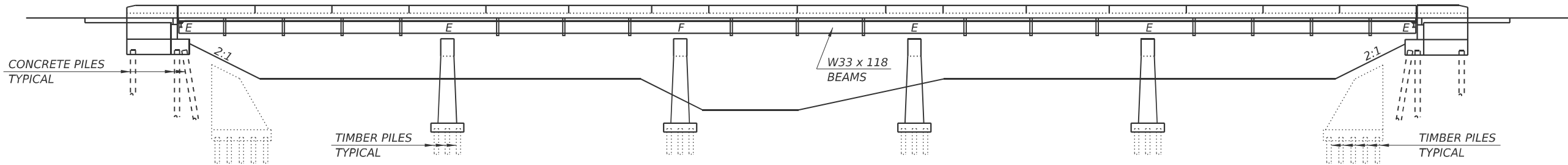
Ø 0042 * SPECIALTY ITEMS

	USER NAME = Jeff.Sherer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					*	(121)BR-1,(114)BR-1	VERMILION	46	6
		CHECKED -	REVISED -		*FAP 709, FAP 840			CONTRACT NO. 70G71				
	PLOT DATE = 1/14/2025	DATE -	REVISED -		SCALE: NONE	SHEET 4	OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

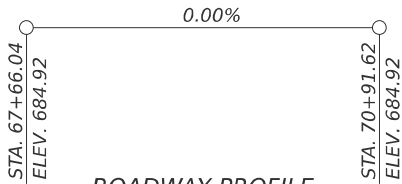
STRUCTURE NO. 092-0058 WAS ORIGINALLY BUILT AS S.B.I. ROUTE 119, SECTION 114-B BY VERMILION COUNTY IN 1928 AT STATION 69+30.00. IN 1958 IT WAS WIDENED AS S.B.I. ROUTE 119 SECTION 114 TO 28'-0". IN 1984 IT WAS RECONSTRUCTED AS F.A. ROUTE 709 SECTION 114BR BY THE STATE OF ILLINOIS AT STATION 69+29.83. THE SPILL THROUGH ABUTMENTS WERE REMOVED TO FINISHED GRADE AND PILE BENT ABUTMENTS WERE PLACED BEHIND THE EXISTING ABUTMENTS, EXISTING PIER CAPS WERE REMOVED AND REPLACED AND A STEEL SUPERSTRUCTURE OF FIVE W33 x 118 BEAMS WITH A 7 1/2" REINFORCE CONCRETE DECK CREATING A 32'-0" CLEAR WIDTH. THE FIVE SPAN LENGTHS ARE 58'-2 7/8", 52'-10 3/8", 53'-2 1/2", 52'-11 7/8" AND 58'-4 7/16". THE FACE TO FACE OF PARAPET WIDTH IS 32'-0" AND AN OUT TO OUT WIDTH IS 35'-2". THE BACK TO BACK ABUTMENT LENGTH IS 284'-7".

GENERAL PLAN & ELEVATION
S.N. 092-0058

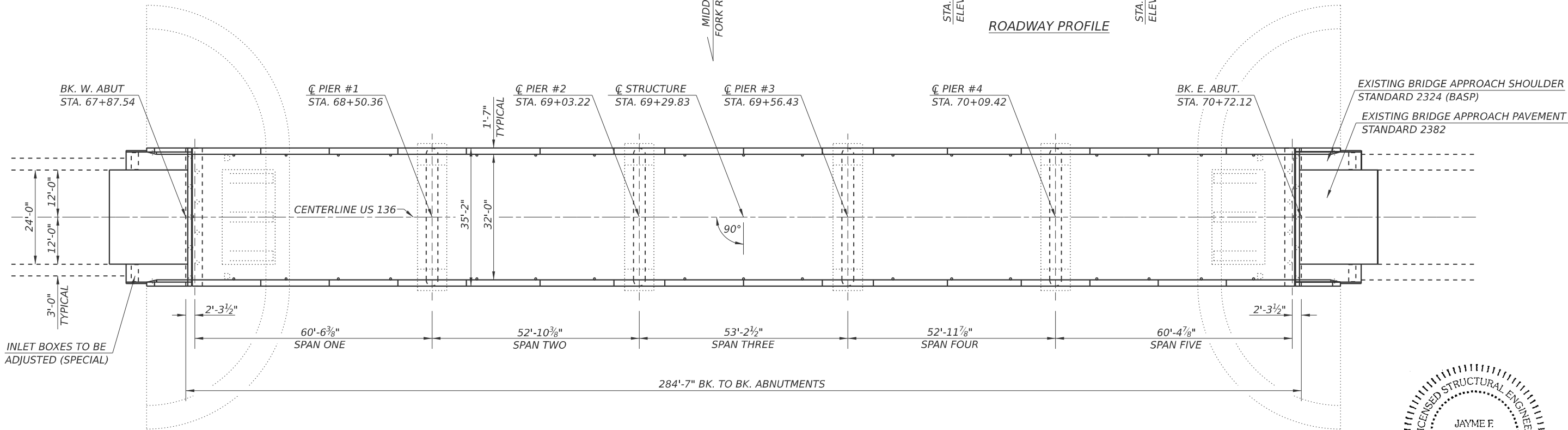
WORK SHALL BE COMPLETED WITH STAGE CONSTRUCTION.



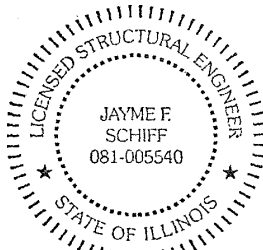
ELEVATION VIEW



ROADWAY PROFILE



PLAN VIEW



EXPIRES 11-30-2026

MODEL: S:\P\092-0058-1 (Sheet)
FILE NAME: P:\092-0058-1\092-0058-1.dwg
PLOT DATE: 1/14/2025

USER NAME	= Jeff.Sherer	DESIGNED	-	REVISED	-
DRAWN	- ESS	CHECKED	- TJB	REVISED	-
PLOT SCALE	= \$SCALE\$	DATE	-	REVISED	-
PLOT DATE	= 1/14/2025				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
S.N. 092-0058

SCALE: 1" = 20' SHEET 1 OF 20 SHEETS STA. 67+66.04 TO STA. 70+91.62

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	7
	*FAP 709, FAP 840			CONTRACT NO. 70G71
		ILLINOIS	FED. AID PROJECT	

SCOPE OF WORK

1. COMPLETE BRIDGE DECK SCARIFICATION.
2. COMPLETE FULL-DEPTH DECK PATCHING, REMOVAL DECK ENDS, PARAPETS, AND HATCH BLOCKS.
3. COMPLETE STRUCTURAL REPAIR OF CONCRETE ON BACK WALLS AND PIERS.
4. COMPLETE BEARING REPLACEMENT.
5. CAST DECK ENDS, PARAPET ENDS, HATCH BLOCKS.
6. PLACE BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2½".
7. COMPLETE DIAMOND GRINDING (DECK SECTION) AND BRIDGE DECK GROOVING (LONGITUDINAL).
8. PLACE STRIP SEAL.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	9.5
CONCRETE SUPERSTRUCTURE	CU YD	10.6
PROTECTIVE COAT	SQ YD	1,144.0
REINFORCEMENT BARS, EPOXY COATED	POUND	1,120.0
BAR SPLICERS	EACH	24.0
PREFORMED JOINT STRIP SEAL	FOOT	68.0
ELASTOMERIC BEARING ASSEMBLEY, TYPE I	EACH	10.0
ANCHOR BOLTS 1	EACH	20.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	865.0
JACK & REMOVE EXISTING BEARINGS	EACH	10.0
BRIDGE DECK SCARIFICATION ¾"	SQ YD	1,119.0
INLET BOXES TO BE ADJUSTED (SPECIAL)	EACH	4.0
BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2½"	SQ YD	1,119.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH = TO OR < THAN 5")	SQ FT	96.5
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	120.1
DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,105.0

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH THE CONCRETE UTILIZING PNEUMATIC NEEDLE SCALERS OR BY SAND BLASTING. AREAS CLEANED SHALL BE COATED WITH 2 COATS OF ALUMINUM EPOXY MASTIC ARTICLE 1008.03. THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

SYNTHETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK FLY ASH OR GGBF SLAG OVERLAY PER ARTICLE 1008.03 SEE SPECIAL PROVISIONS.

THEN MINIMUM THICKNESS OF THE CONCRETE OVERLAY SHALL BE 2½" AND VARIES AS REQUIRED TO ADJUST FOR EXISTING PROFILE AND BEAM CAMBER.

ALL NEW STRUCTURAL STEEL AND BEARING ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DIP GALVANIZING FOR STRUCTURAL STEEL".

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270, GR. 50, UNLESS OTHERWISE NOTED.

FASTENERS SHALL BE ASTM F 3125 GRADE A325 TYPE 1 MECHANICALLY GALVANIZED BOLTS.

TWO ⅛" ADJUSTING SHIMS SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS AND PLACE AS SHOWN ON BEARING DETAILS.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STD. SPECS. WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

SEE SPECIAL PROVISION "DECK SLAB REPAIR" FOR ADDITIONAL REQUIREMENTS PERTAINING TO DECK SLAB REPAIR AND HMA SURFACE REMOVAL (DECK).

LONGITUDINAL REMOVAL OF DECK SLAB REPAIR (FULL DEPTH, TYPE II) MUST BE DONE IN ALTERNATING SECTIONS OF NO MORE THAN 20 FT. ADJACENT SECTIONS MUST NOT BE DONE REMOVED UNTIL BOTH OF THE FOLLOWING REQUIREEMENTS ARE MET.

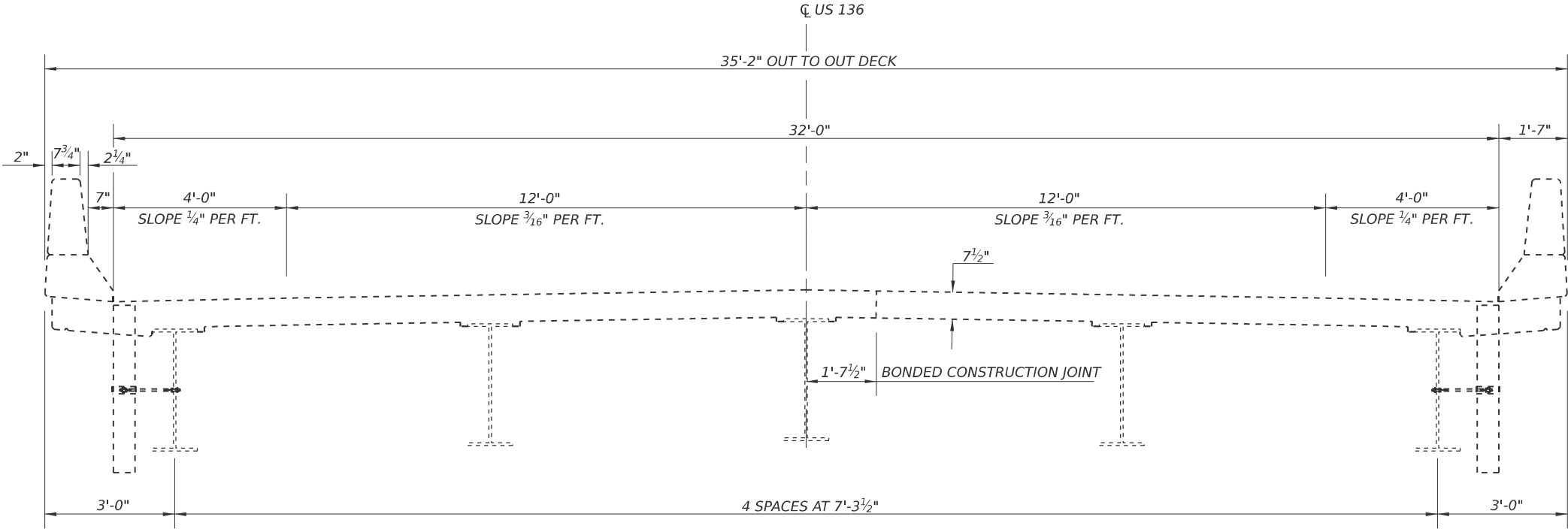
AT LEAST 72 HOURS SHALL HAVE ELAPSED FROM THE END OF THE PREVIOUS POUR, AND THE CONCRETE SHALL HAVE ATTAINED A MINIMUM MODULUS OF RUPTURE OF 650 PSI OR A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI.

PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE SUPERSTRUCTURE AND ALL NEW CONCRETE OVERLAYS AS SPECIFIED IN ARTICLE 503.19 OF THE STANDARD SPECIFICATIONS.

MODEL: S:\P\18-092-0056-2 (Sheet)
FILE NAME: p:\w\84944\cdm\9.com\p\WIDOT\Documents\DOT Office\District 5\ORD Projects\0570G71\CADDData\Bids\0570G71_Sht_092-0058 Workfile.dgn

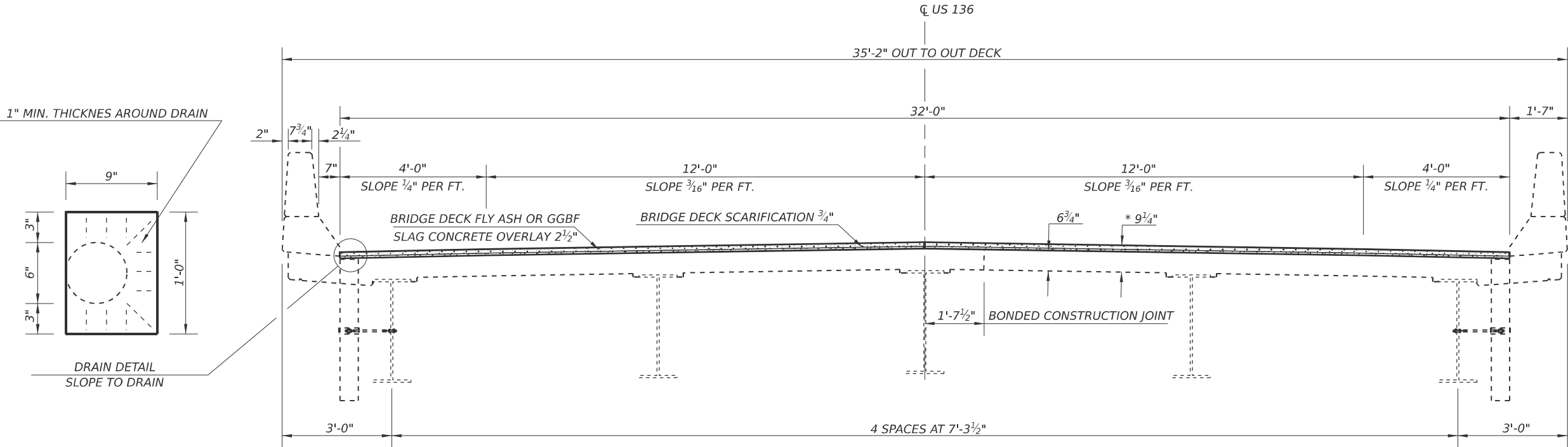
	USER NAME = eric.shawler	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BILL OF MATERIALS & GENERAL NOTES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				*	(121)BR-1,(114)BR-1	VERMILION	46	8
	PLOT SCALE = \$\$SCALE\$	CHECKED -	REVISED -		S.N. 092-0058		*FAP 709, FAP 840		CONTRACT NO. 70G71		
	PLOT DATE = 3/18/2025	DATE -	REVISED -		SCALE: NONE	SHEET 2 OF 20 SHEETS	STA. ____+____	TO STA. ____+____	ILLINOIS FED,AID PROJECT		

EXISTING DECK CROSS SECTION
S.N. 092-0058



LOOKING EAST

PROPOSED DECK CROSS SECTION
S.N. 092-0058



LOOKING EAST

* PRIOR TO GRINDING

MODEL: S:\P\092-0058-3 [Sheet]
FILE NAME: P:\092-0058-3\092-0058-3.dwg
PLOT DATE: 1/14/2025

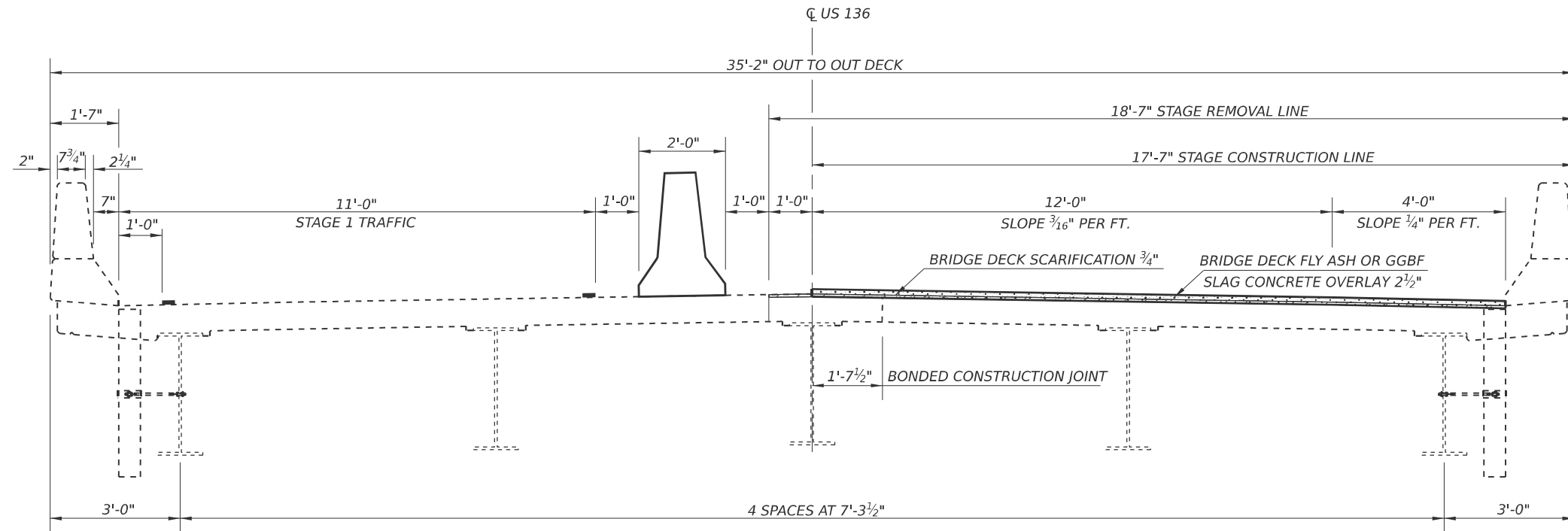
USER NAME = Jeff.Sherer	DESIGNED -	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - ESS	REVISED -
PLOT DATE = 1/14/2025	CHECKED - TJB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK CROSS SECTIONS 092-0058			
SCALE: NONE	SHEET 3	OF 20 SHEETS	STA. ____+____ TO STA. ____+____

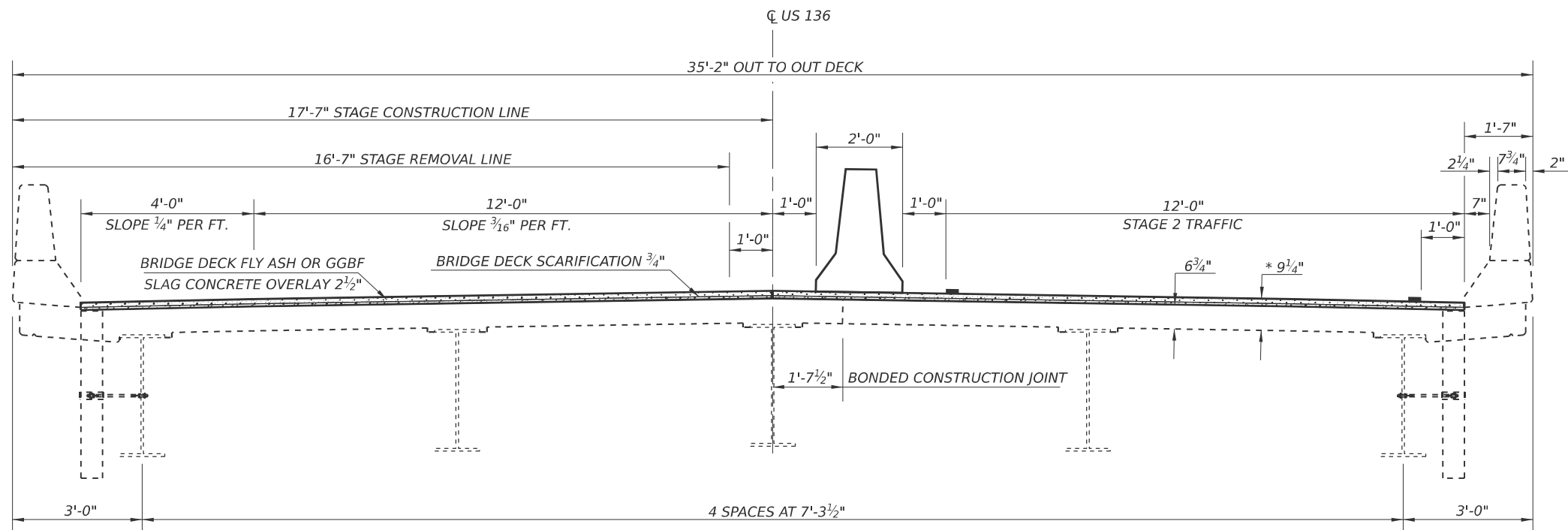
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	9
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

STAGE ONE CONSTRUCTION
S.N. 092-0058



LOOKING EAST

STAGE TWO CONSTRUCTION
S.N. 092-0058



LOOKING EAST

* PRIOR TO GRINDING

USER NAME = Jeff.Sherer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS S.N. 092-0058				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - ESS	REVISED -						*	(121)BR-1,(114)BR-1	VERMILION	46	10	
PLOT SCALE = \$SCALE\$	CHECKED - TJB	REVISED -		SCALE: NONE				SHEET 4 OF 20 SHEETS		STA. + . TO STA. + .		*FAP 709, FAP 840	
PLOT DATE = 1/14/2025	DATE -	REVISED -						ILLINOIS		FED. AID PROJECT		CONTRACT NO. 70G71	

S.N. 092-0058

STAGE I CONSTRUCTION
STAGE II CONSTRUCTION
STAGE REMOVAL LINE

CENTERLINE US 136

SHOULDER DRAIN
 4'-4" X 1'-11" (TYP.)

3'-2½" JOINT REPLACEMENT AREA
 OMISSION IN CONCRETE OVERLAY

3'-2½" JOINT REPLACEMENT AREA
 OMISSION IN CONCRETE OVERLAY

20'-0" TYPICAL

277'-2½"

4'-0"
4'-0"
24'-0"
32'-0"

16'-6" TYP.
8'-0" TYP.
6'-0" TYP.
2'-6" TYP.
7" TYP.

1'-0"

BRIDGE DECK SCARIFICATION $\frac{3}{4}$ "

BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY $2\frac{1}{2}$ "

OMISSION IN SCARIFICATION & CONCRETE OVERLAY

BRIDGE DECK

SEE JOINT REPAIR DETAIL

STANDARD 2382
APPROACH PAVEMENT

PROPOSED ELEVATION
(WEST APPROACH SHOWN EAST APPROACH SIMILAR)

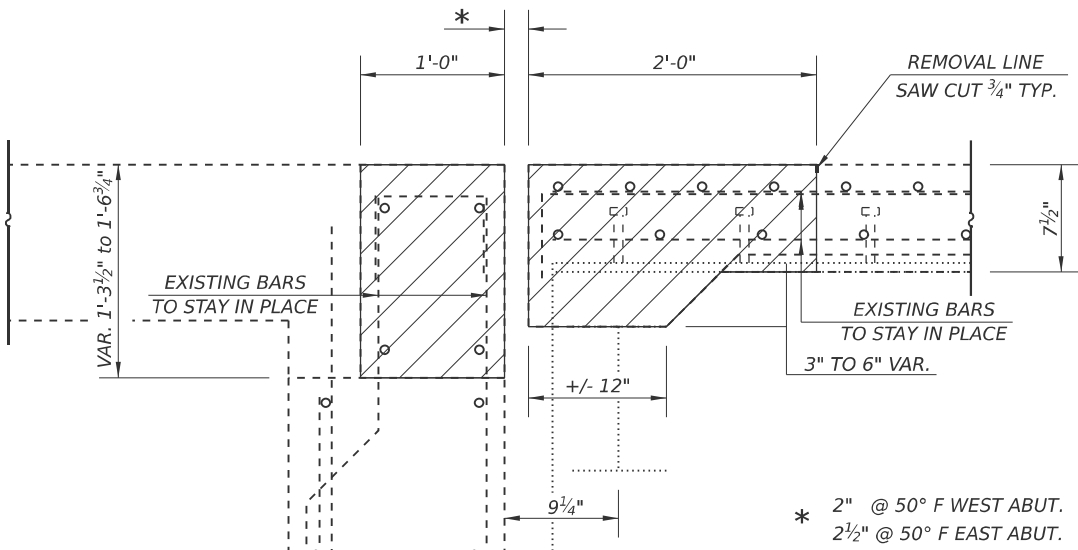
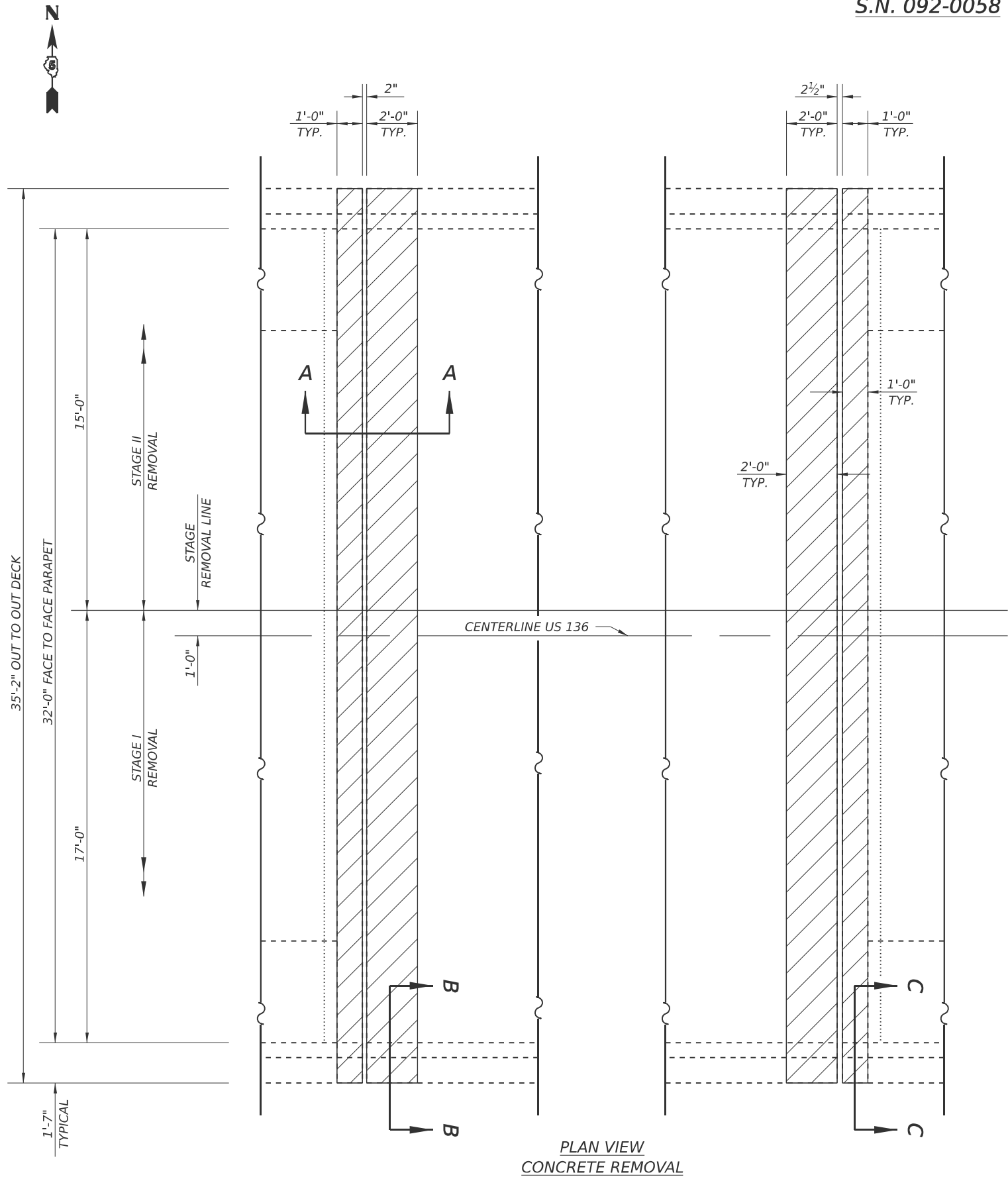
BRIDGE DECK SCARIFICATION $\frac{3}{4}$ "
 BRIDGE DECK FLY ASH RO GGBF SLAG CONCRETE OVERLAY $2\frac{1}{2}$ "

CONCRETE REMOVAL
 CONCRETE SUPERSTRUCTURE

SYNTHETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, SEE SPECIAL PROVISIONS.

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION ¾"	SQ YD	1,119.0
BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2½"	SQ YD	1,119.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	865.0
DIAMOND GRINDING (BRIDGE DECK)	SQ YD	1,105.0
PROTECTIVE COAT	SQ YD	1,119.0

CONCRETE REMOVAL DETAILS
S.N. 092-0058



NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTEND AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

THE EXISTING EXPANSION JOINT SYSTEM SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. THE COST OF THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LEGEND



MODEL: S:\P\092-0058-6 (Sheet)
FILE NAME: P:\092-0058-6 (Sheet)\P\092-0058-6 (Sheet).dwg
CADD: 092-0058-6 (Sheet).dwg
SHEET: 6 OF 12
DATE: 1/14/2025

USER NAME	= Jeff.Sherer	DESIGNED	-	REVISED	-
DRAWN	- ESS	REVISION	-	REVISION	-
PLOT SCALE	= \$SCALE\$	CHECKED	- TJB	REVISION	-
PLOT DATE	= 1/14/2025	DATE	-	REVISION	-

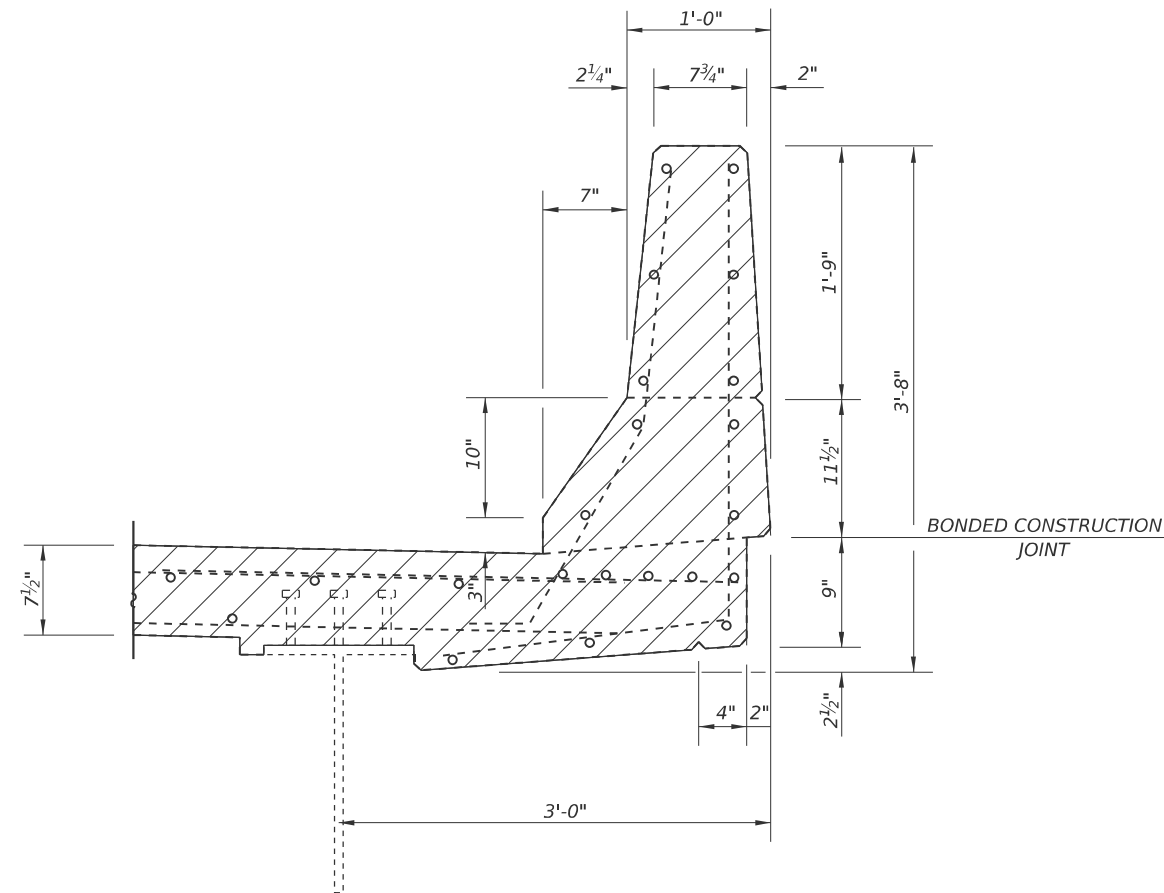
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN - CONCRETE REMOVAL
S.N. 092-0058

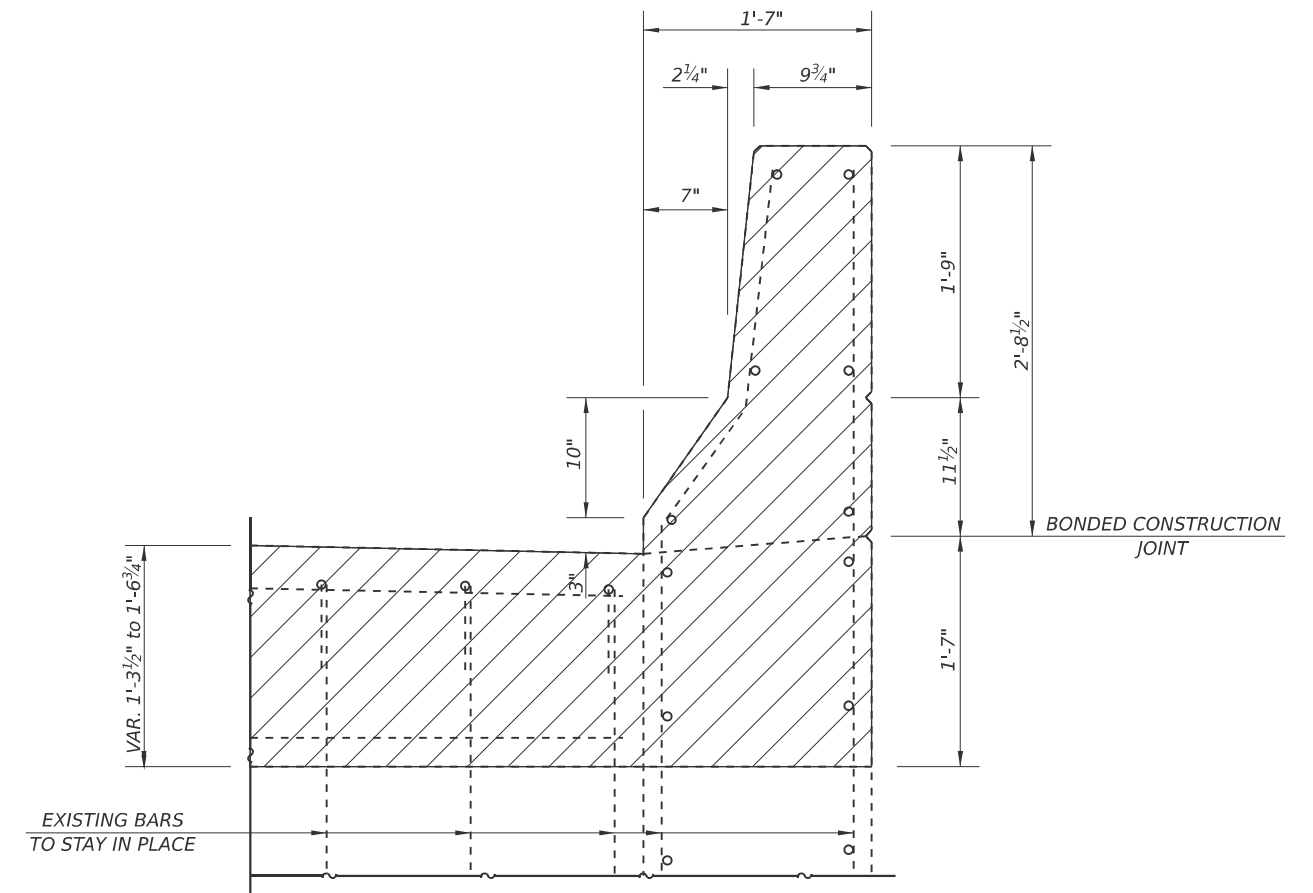
SCALE: NONE SHEET 6 OF 20 SHEETS STA. ____+____ TO STA. ____+____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	12
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

CONCRETE REMOVAL DETAILS
S.N. 092-0058



SECTION B-B
CONCRETE REMOVAL



SECTION C-C
CONCRETE REMOVAL

LEGEND



CONCRETE REMOVAL

BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	9.5

USER NAME = Jeff.Sherer	DESIGNED =	REVISED =
	DRAWN = ESS	REVISED =
PLOT SCALE = \$SCALE\$	CHECKED = TJB	REVISED =
PLOT DATE = 1/14/2025	DATE =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

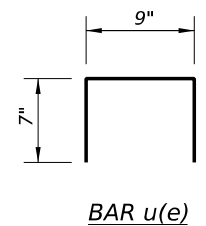
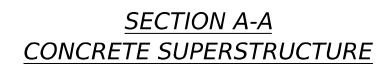
SUPERSTRUCTURE DETAILS - CONCRETE REMOVAL
S.N. 092-0058

SCALE: NONE	SHEET 7	OF 20 SHEETS	STA. + .	TO STA. + .
-------------	---------	--------------	----------	-------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	13
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS FLOOD AID PROJECT				

MODEL: Str. Plans 032-0056-7 [Sheet]
FILE NAME: pwr://hdc-pw.bentley.com/PWIDOT/Documents/IDOT Offices/District 5/ORD Projects/D570G71/CADDData/Bridge/D570G71_Str. 032-00568 Workfile.dgn

S.N. 092-0058



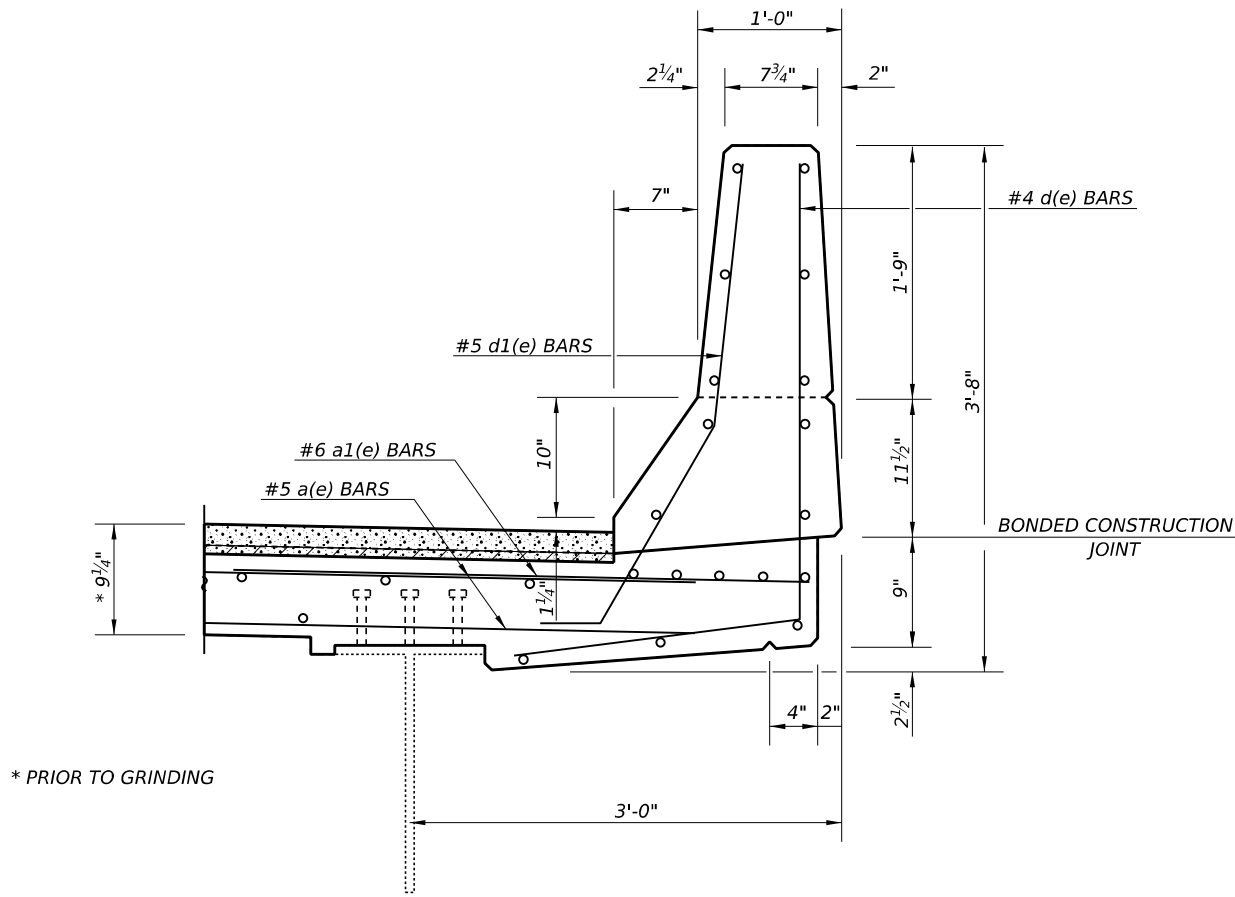
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREAL SHALL BE CLEANED, STRAIGHTNED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH THE CONCRETE UTILIZING PNEUMATIC NEEDLE SCALERS OR BY SAND BLASTING. AREAS CLEANED SHALL BE COATED WITH 2 COATS OF ALUMINUM EPOXY MASTIC ARTICLE 1008.03. THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

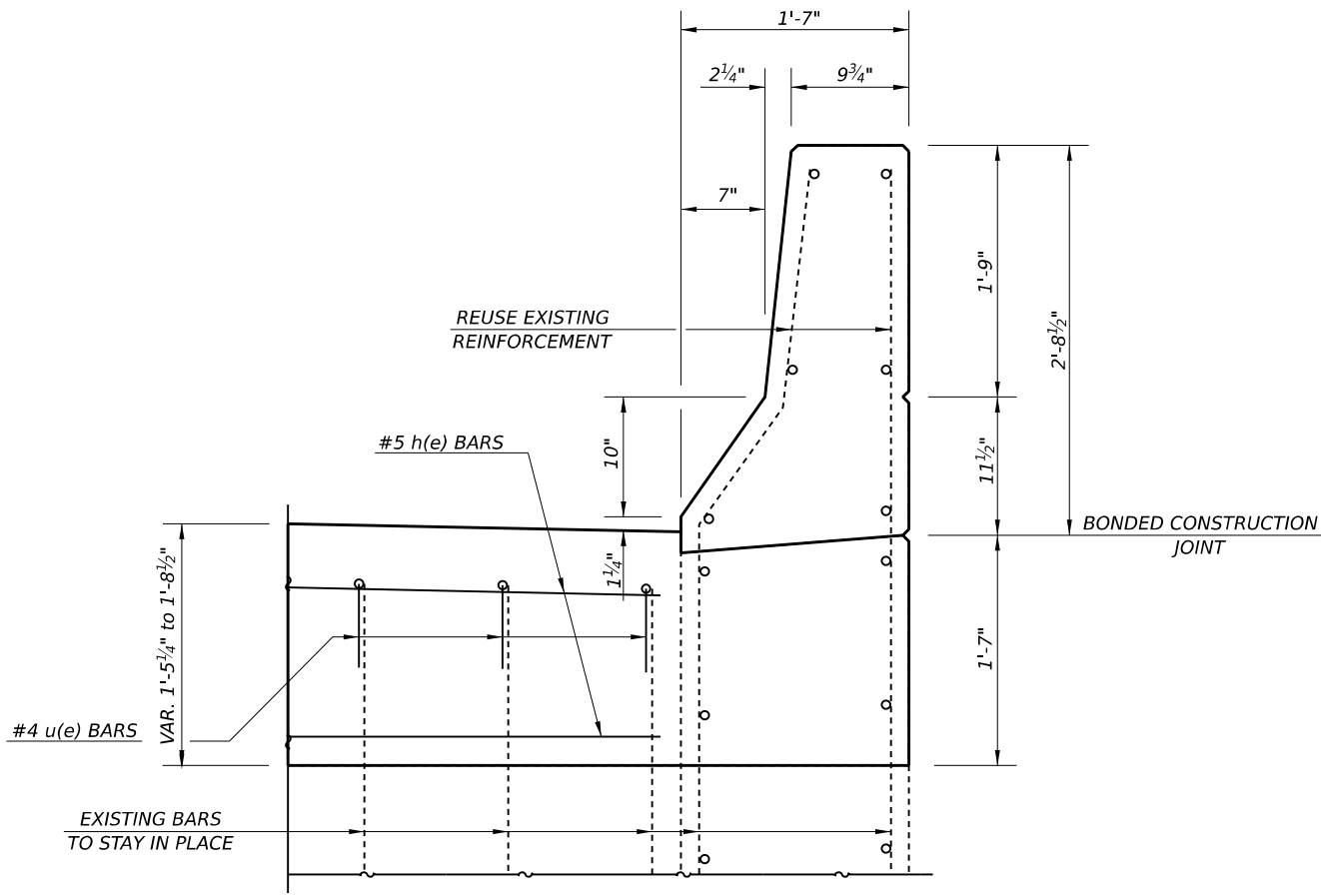
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN - CONCRETE SUPERSTRUCTURE S.N. 092-0058					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					*	(121)BR-1,(114)BR-1	VERMILION	46	14
					*FAP 709, FAP 840		CONTRACT NO. 70G71		
SCALE: NONE	SHEET 8	OF 20	SHEETS	STA. ____+____ TO STA. ____+____	ILLINOIS FED. AID PROJECT				

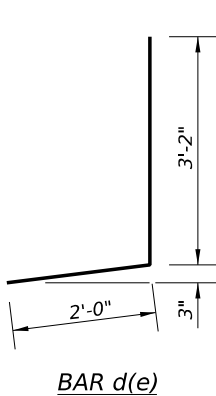
CONCRETE SUPERSTRUCTURE DETAILS
S.N. 092-0058



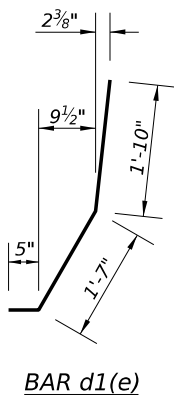
SECTION B-B
CONCRETE SUPERSTRUCTURE



SECTION C-C
CONCRETE SUPERSTRUCTURE



BAR d(e)



BAR d1(e)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
a(e)	32	#5	16'-3"	—
a1(e)	8	#6	4'-0"	—
h(e)	16	#6	15'-10"	—
d(e)	8	#4	5'-2"	J
d1(e)	8	#5	3'-10"	J
u(e)	66	#4	1'-11"	□
ITEM			UNIT	TOTAL
REINFORCEMENT BARS (EPOXY COATED)			POUND	1,120.0
CONCRETE SUPERSTRUCTURE			CU YD	10.6
BAR SPLICERS			EACH	24.0
PROTECTIVE COAT			SQ YD	25.0

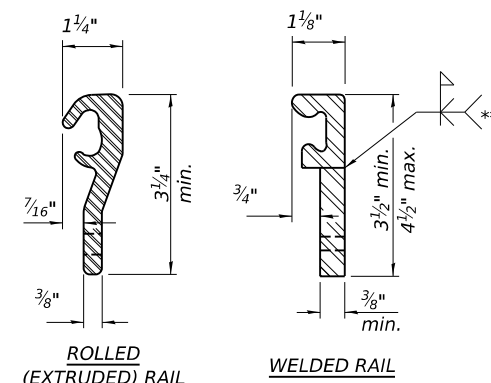
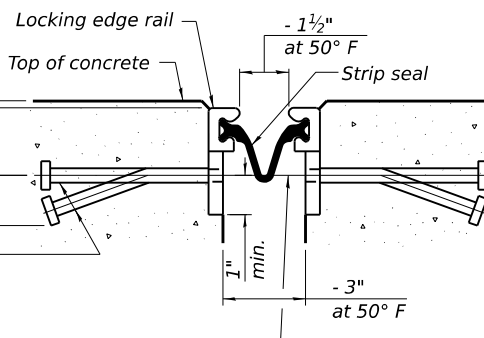
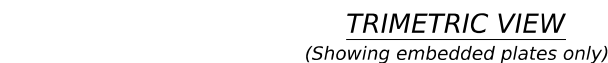
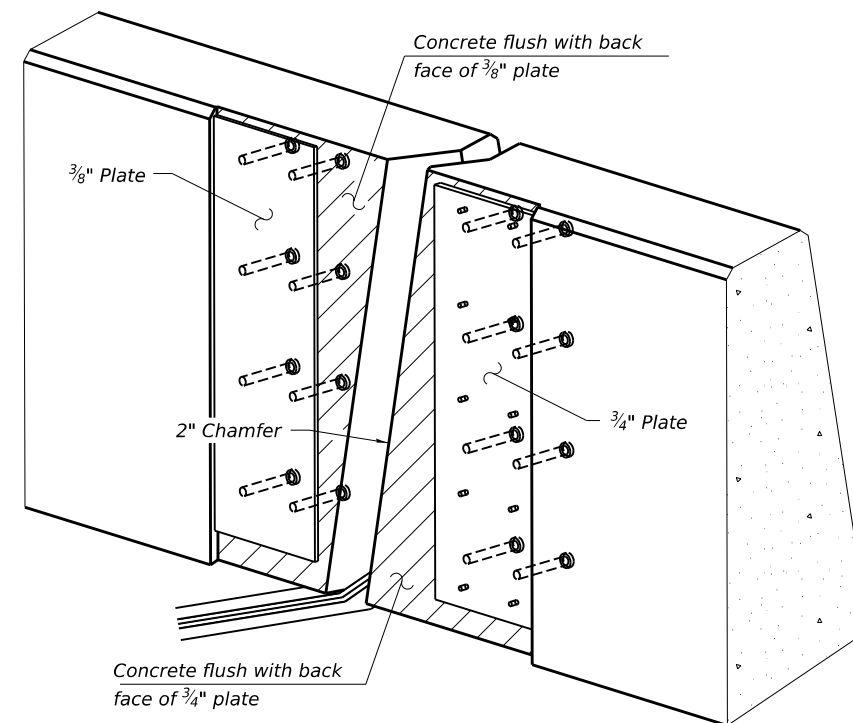
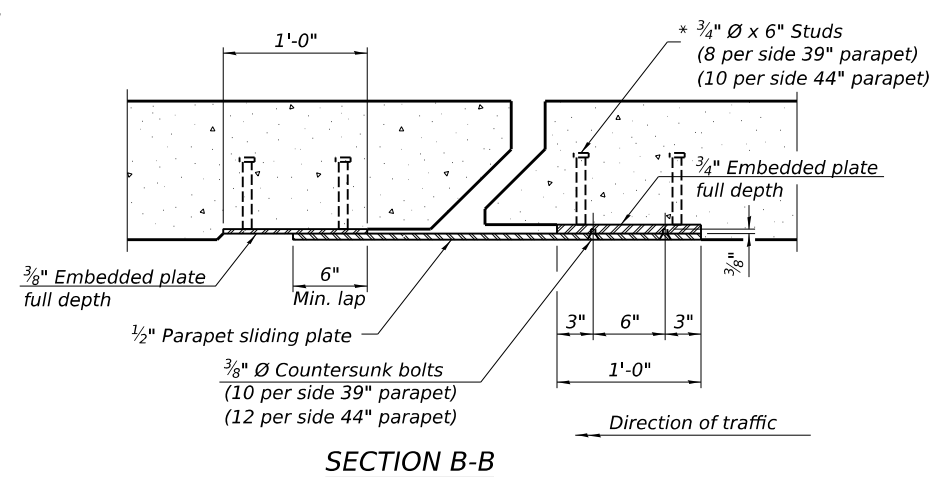
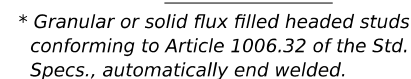
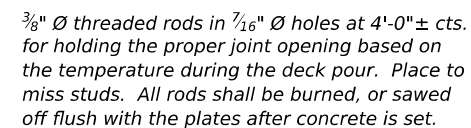
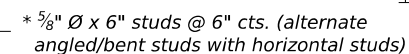
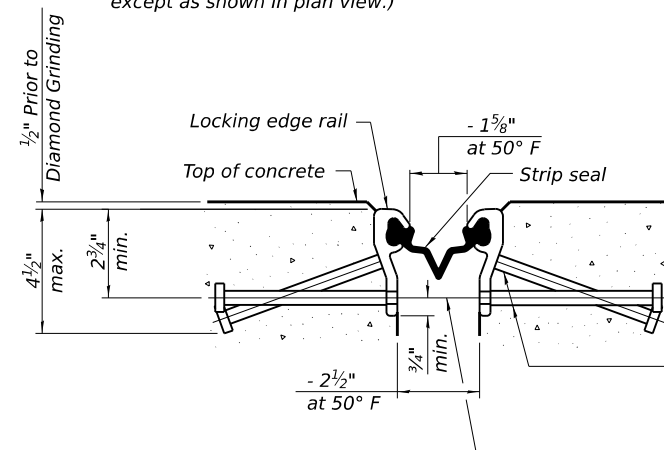
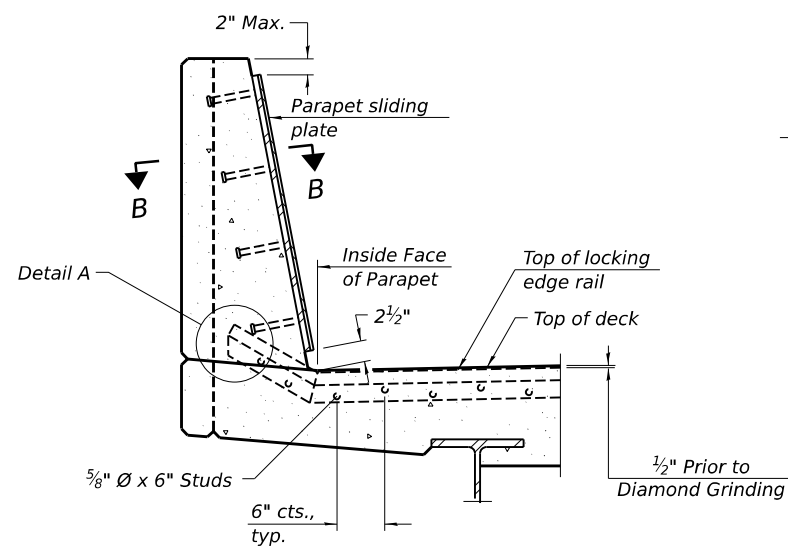
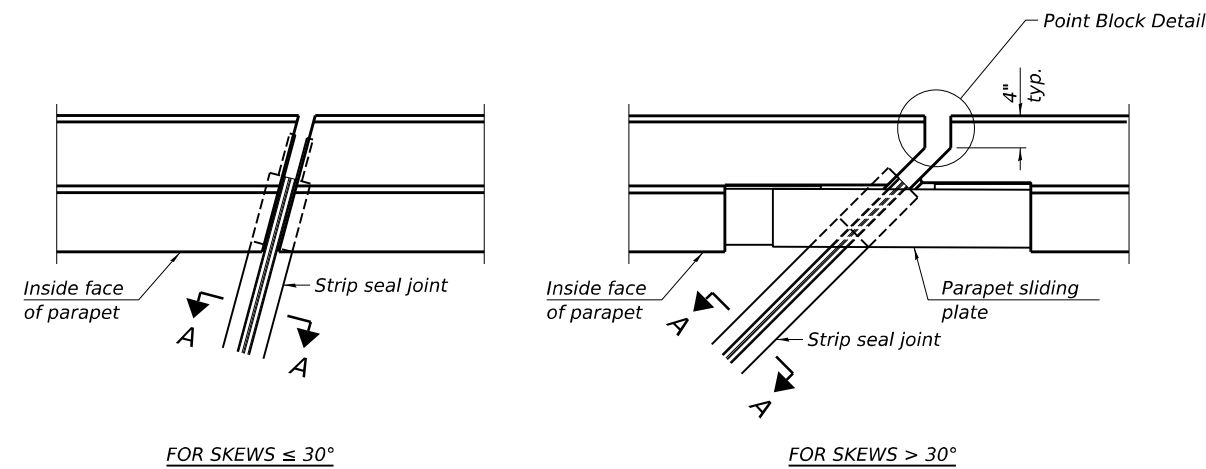
MODEL: S:\P\092-0058-01 (Sheet)
FILE NAME: P:\092-0058-01\092-0058-01.dwg
PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION
DRAWN BY: ERIC SHAWLER
CHECKED BY: TJB
DATE: 3/18/2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

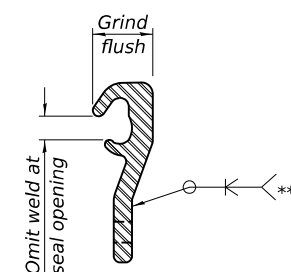
SUPERSTRUCTURE DETAILS - CONCRETE SUPERSTRUCTURE
S.N. 092-0058

SCALE: NONE SHEET 9 OF 20 SHEETS STA. 0+00 TO STA. 0+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	15
*FAP 709, FAP 840			CONTRACT NO. 70G71	
ILLINOIS			FED. AID PROJECT	



**** Back gouge not required if complete joint penetration is verified by mock-up.**



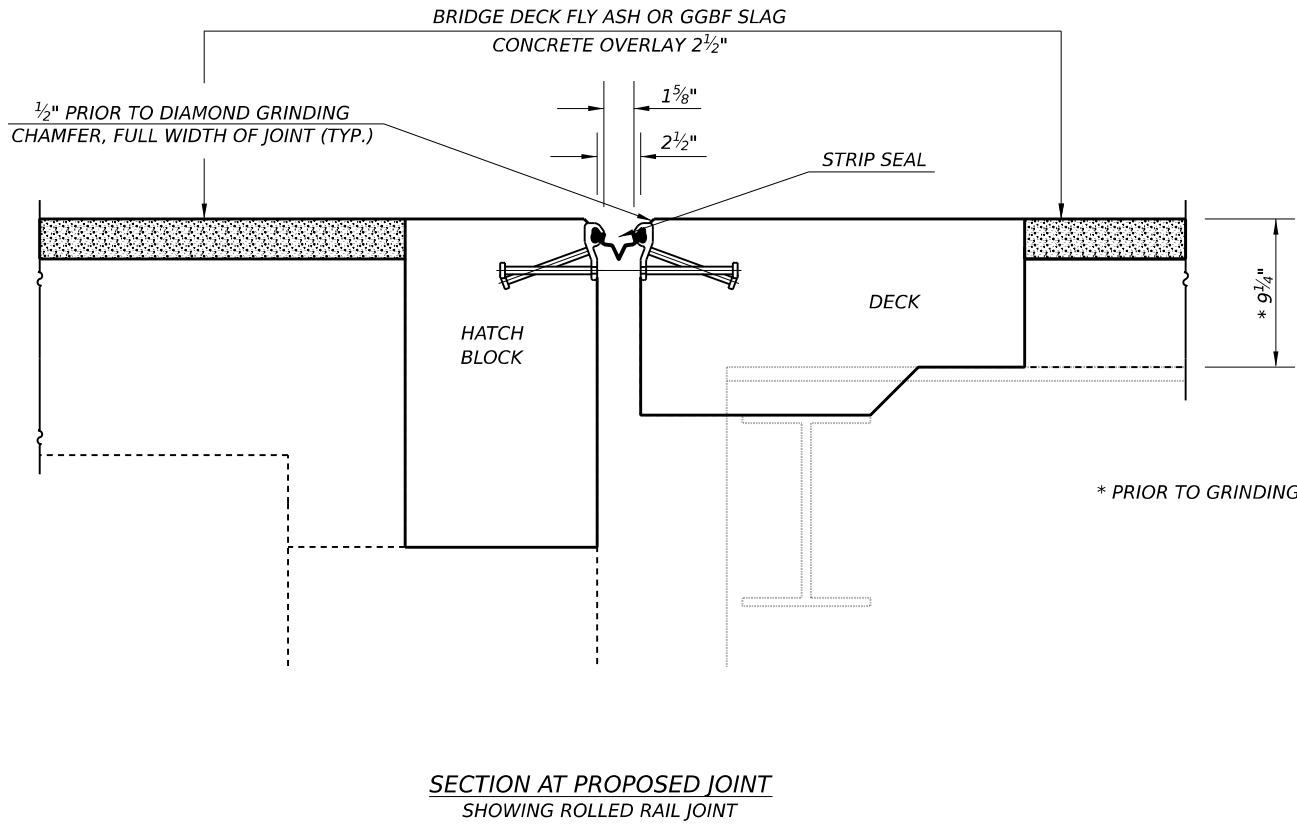
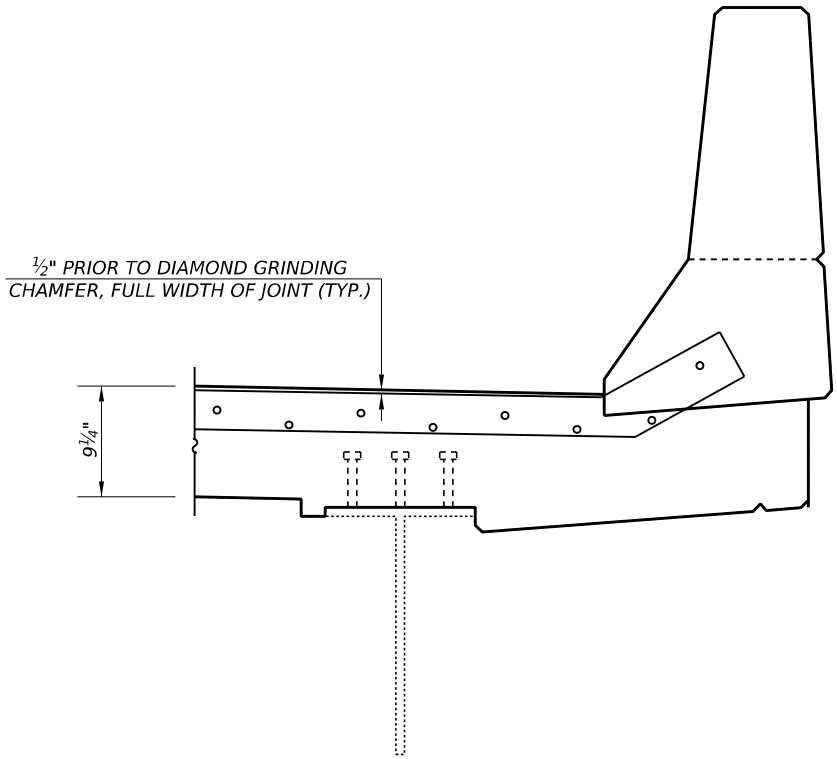
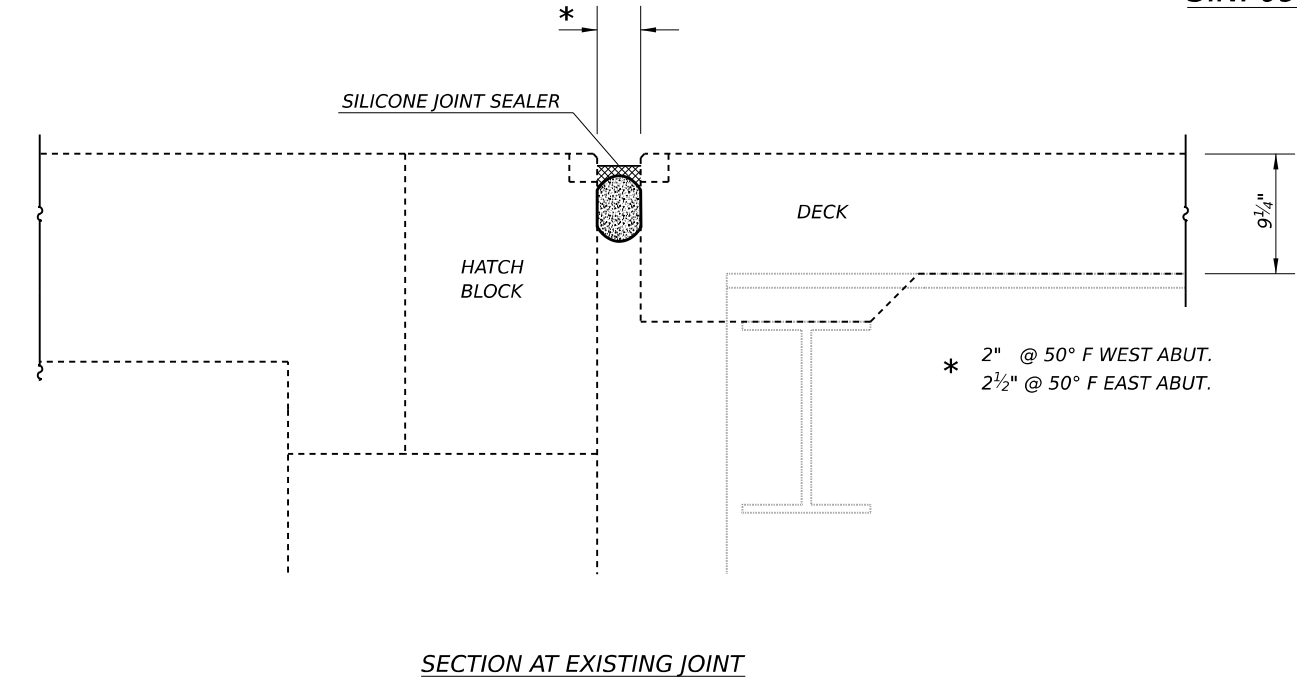
LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	68.0

JOINT REPLACEMENT DETAIL
S.N. 092-0058



MODEL: S:\P\092-0058-11 (Sheet)
FILE NAME: p:\092-0058-11\092-0058-11.dwg
PROJECT: 092-0058-11
SHEET: 11 OF 20
DATE: 3/18/2025

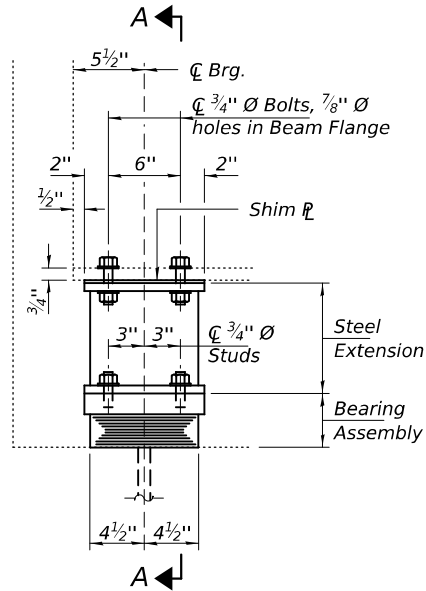
USER NAME	= eric.shawler	DESIGNED	-	REVISED	-
DRAWN	- ESS	REVISION	-	REVISION	-
PLOT SCALE	= \$SCALE\$	CHECKED	- TJB	REVISION	-
PLOT DATE	= 3/18/2025	DATE	-	REVISION	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT JOINT DETAIL S.N. 092-0058			
SCALE: NONE	SHEET 11	OF 20 SHEETS	STA. ____+____ TO STA. ____+____

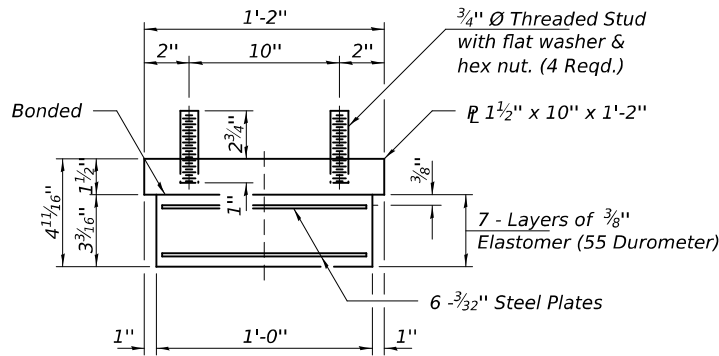
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	17
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

MODEL: 01
FILE NAME: p:\w\l\lido-epw\benley.com\FW\IDOT\Documents\IDOT O ces\Bureau of Bridges and Structures\OBM Projects\0920058\CADData\Structures\0920058.dgn
3/17/2025 6:18:34 AM



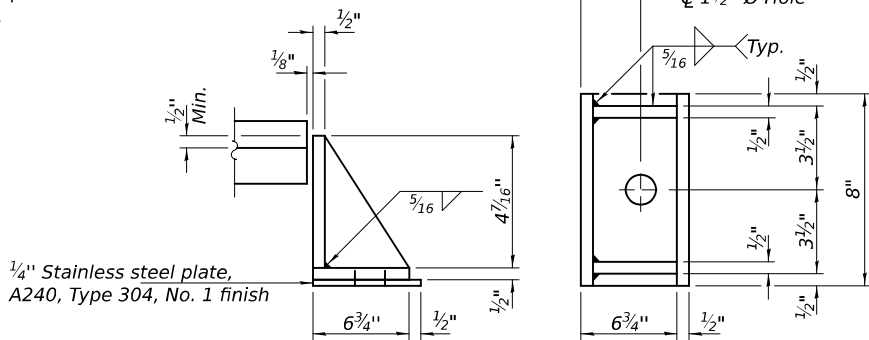
ELEVATION AT ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.

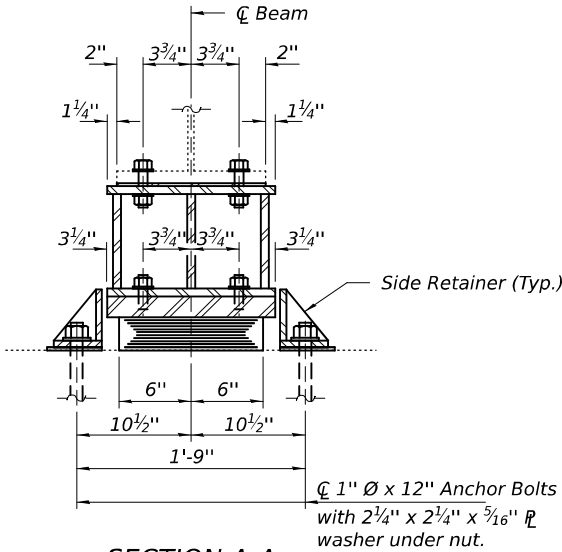


BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.



EQUIVALENT ROLLED ANGLE WITH STIFFENERS
WILL BE ALLOWED IN LIEU OF WELDED PLATES.

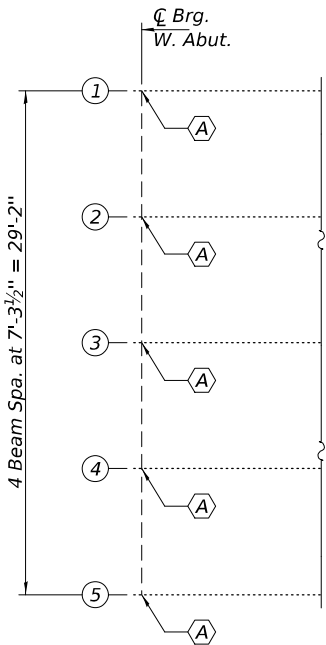


SECTION A-A

BEAM REACTIONS

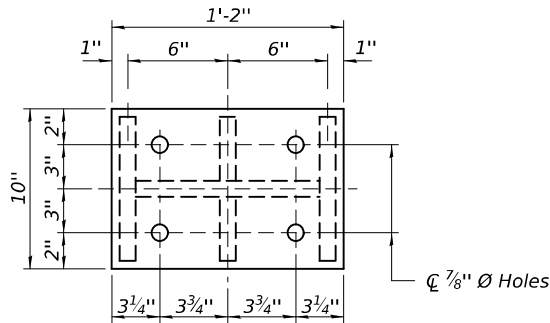
R P	(K)	29.0
R L	(K)	39.1
Imp.	(K)	10.6
R (Total)	(K)	78.7

Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
Min. jack capacity = 41 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

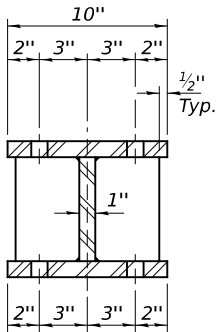


PARTIAL PLAN

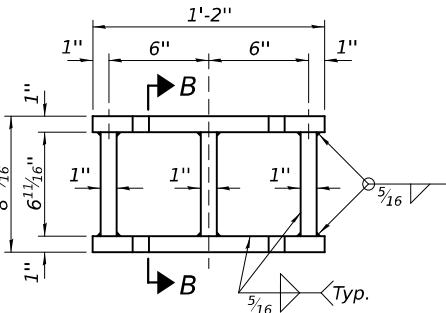
(A) - Bearing Removal and Replacement



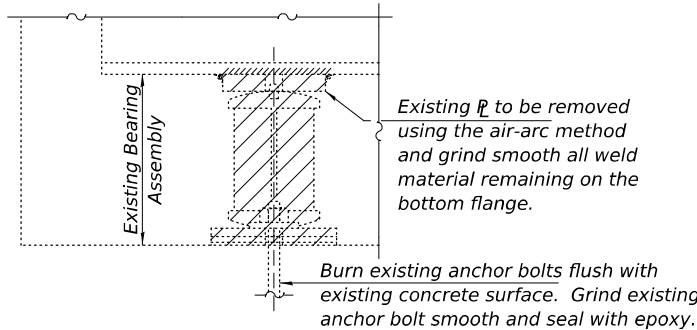
PLAN TOP AND BOTTOM PLATE



SECTION B-B



STEEL EXTENSION DETAIL



EXISTING BEARING REMOVAL DETAIL
Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	5
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	780
Anchor Bolts, 1"Ø	Each	10

TY I-REPS

4/30/2024

DESIGNED - CAL	EXAMINED
CHECKED - JSB	PASSED
DRAWN - daburdell	
CHECKED - CAL JSB	

ENGINEER OF STRUCTURAL SERVICES	DATE - MARCH 17, 2025
ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS - WEST ABUTMENT
SN 092-0058

SHEET 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	52	19
	*FAP 709, FAP 840			CONTRACT NO. 70G71
		ILLINOIS	FED. AID PROJECT	

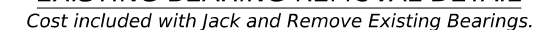
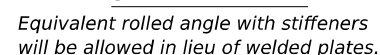


$R_{\varnothing}$	(K)	29.0
$R_{\perp}$	(K)	39.1
$Imp.$	(K)	10.6
R (Total)	(K)	78.7

Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

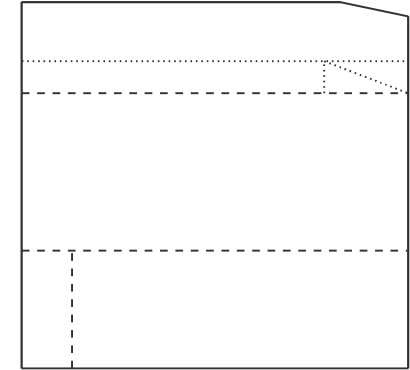
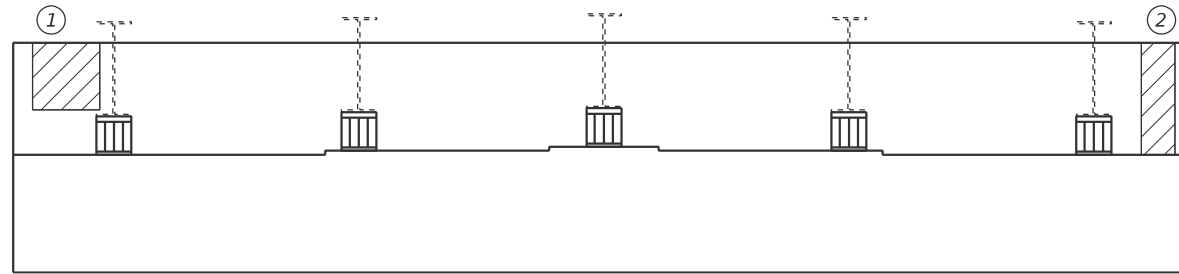
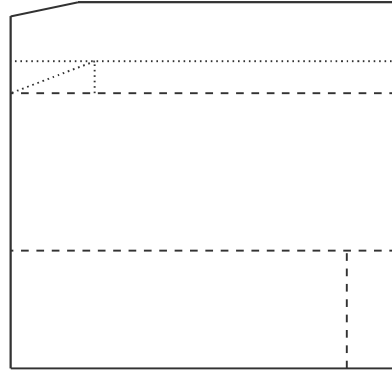


Shim plates shall not be placed under Bearing Assembly.

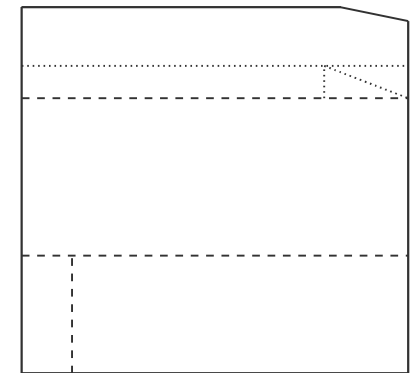
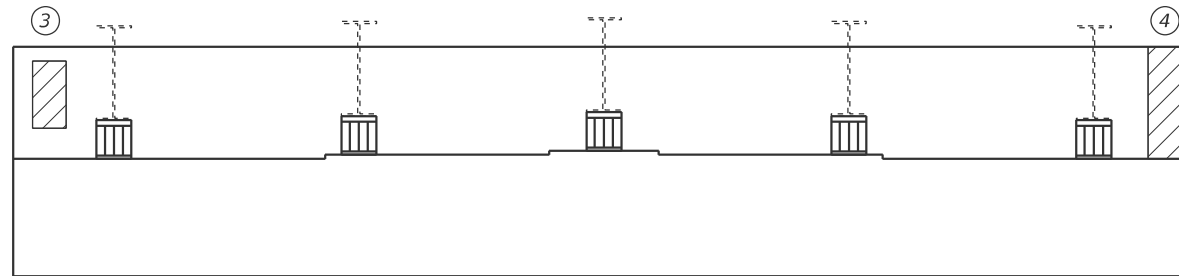
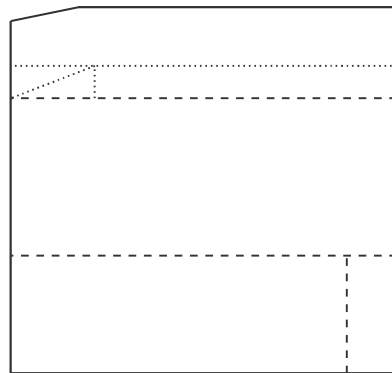


Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	5
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	780
Anchor Bolts, 1"Ø	Each	10

S.N. 092-0058



WEST ABUTMENT



EAST ABUTMENT

[illegible]

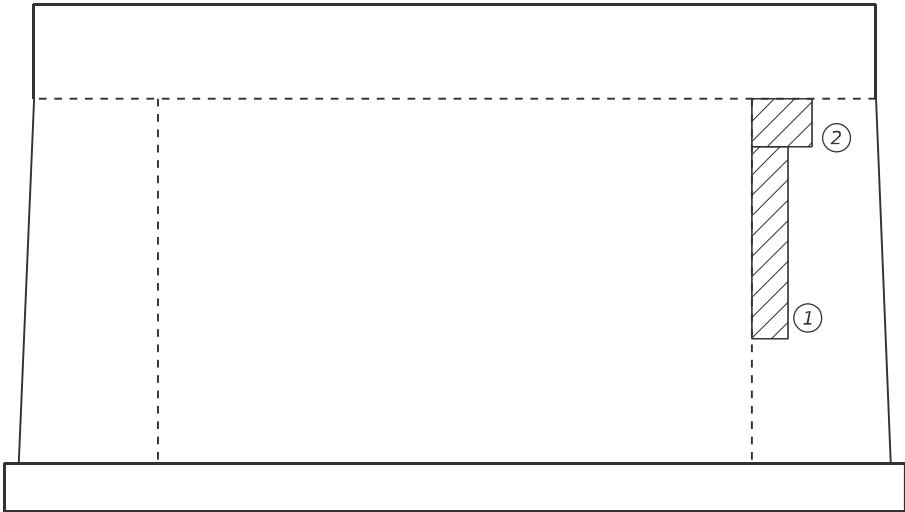
SEE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE.

STRUCTURAL REPAIR OF CONCRETE (DEPTH = TO < 5 INCHES)

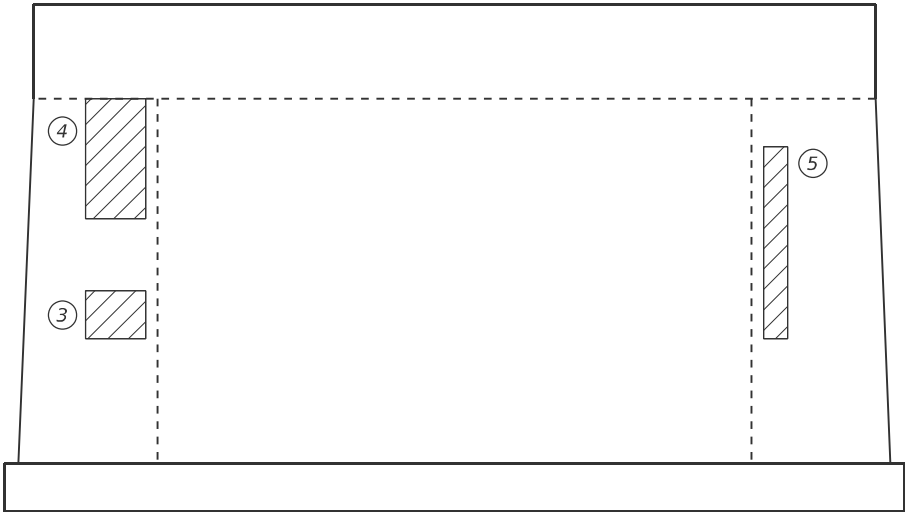
BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE (DEPTH = TO < 5 INCHES)	SQ FT	16.0

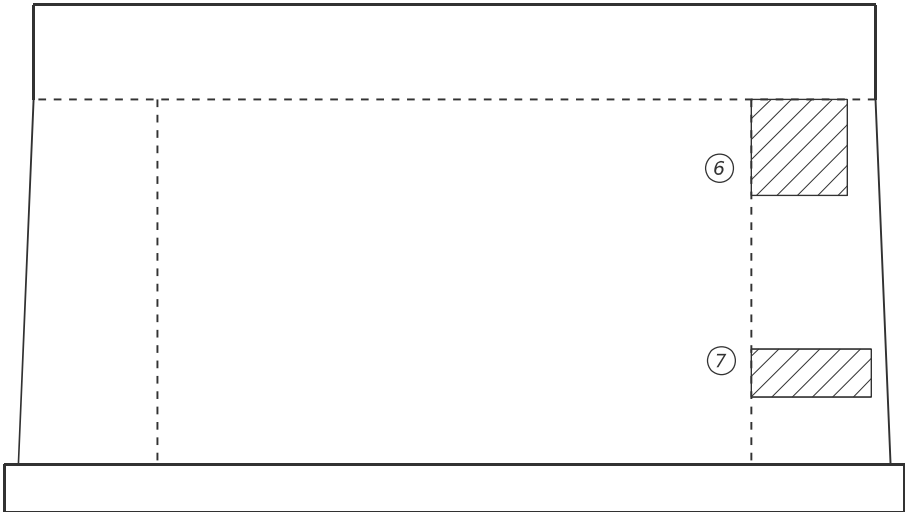
STRUCTURAL REPAIR OF CONCRETE DETAILS
S.N. 092-0058



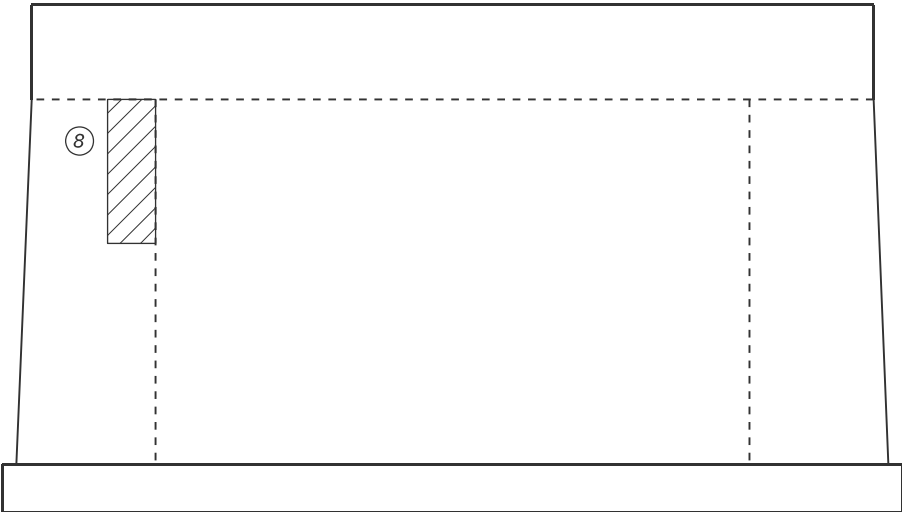
PIER TWO - EAST SIDE



PIER THREE - WEST SIDE



PIER THREE - EAST SIDE



PIER FOUR - WEST SIDE

NOTE
SEE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE.

LEGEND



STRUCTURAL REPAIR OF CONCRETE
(DEPTH = TO < 5 INCHES)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE (DEPTH = TO < 5 INCHES)	SQ FT	80.5

PATCH NO.	SIZE W. FT. * L. FT.	SQ FT			
1	1.5 X 8.0	12.0			
2	2.5 X 2.0	5.0			
3	2.5 X 2.0	5.0			
4	2.5 X 5.0	12.5			
5	1.0 X 8.0	8.0			
6	4.0 X 4.0	16.0			
7	5.0 X 2.0	10.0			
8	2.0 X 6.0	12.0			

MODEL: Str. 092-0058-16 FILE NAME: P:\Bids\092-0058\Drawings\PA\DOT\Documents\DOT Office\Project\092-0058\16\092-0058 Workfile.dgn	USER NAME = Jeff.Sherer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE REPAIR OF CONCRETE DETAILS S.N. 092-0058				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		DRAWN - ESS	REVISED -						*	(121)BR-1,(114)BR-1	VERMILION	46	22			
	PLOT SCALE = \$SCALE\$	CHECKED - TJB	REVISED -						*FAP 709, FAP 840					CONTRACT NO. 70G71		
	PLOT DATE = 1/14/2025	DATE -	REVISED -						ILLINOIS FED. AID PROJECT							
										SCALE: NONE		SHEET 16	OF 20	SHEETS	STA. __+__.	TO STA. __+__.



PLAN VIEW

[illegible]

ITEM	UNIT	TOTAL
DECK SLAB REPAIR FULL DEPTH, TYPE I	SQ YD	0.6
DECK SLAB REPAIR FULL DEPTH, TYPE II	SQ YD	67.6

PATCHS ACTUAL SIZE
AND LOCATIONS SHOULD
BE SHOWN ON THIS SHEET.

SCALE: NONE	SHEET 17	OF 20	SHEETS	STA. + .	TO STA. + .
-------------	----------	-------	--------	----------	-------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	23
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

MODEL: Str. Plans 092-0058-17 [Sheet]
FILE NAME: pw:\ilodot-pw.bentley.com:P\WIDOT\Documents\WIDOT Offices\District 5\ORD Projects\D57OG7\ICADData\Bridge\D57OG7_Slr_092-0058 Workfile.dgn



PLAN VIEW

THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK SLAB REPAIR ON THE AS-BUILT PLANS. THE PREFERRED METHOD OF RECORDING THIS INFORMATION IS DATA RECORDING BY GPS OR TOTAL STATION, PROCESSED IN MICROSTATION. IF DESIRED, THE ENGINEER MAY RECORD BY HAND.

DECK SLAB REPAIR FULL DEPTH, TYPE I



DECK SLAB REPAIR FULL DEPTH, TYPE II

ITEM	UNIT	TOTAL
DECK SLAB REPAIR FULL DEPTH, TYPE I	SQ YD	1.4
DECK SLAB REPAIR FULL DEPTH, TYPE II	SQ YD	52.5

DECK SURVEY PERFORMED
ON JUNE 6, 2023.

METHOD OF SURVEY:
VISUAL

PATCHES ACTUAL SIZE
AND LOCATIONS SHOULD
BE SHOWN ON THIS SHEET.

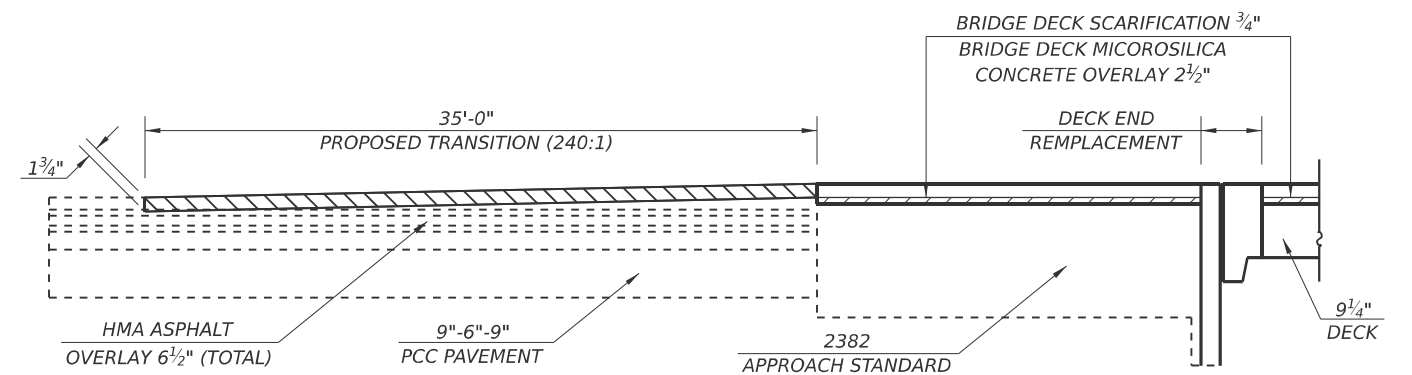
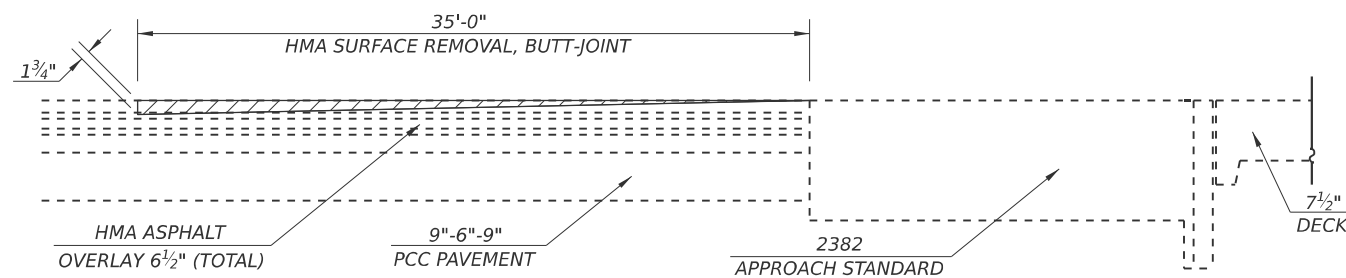
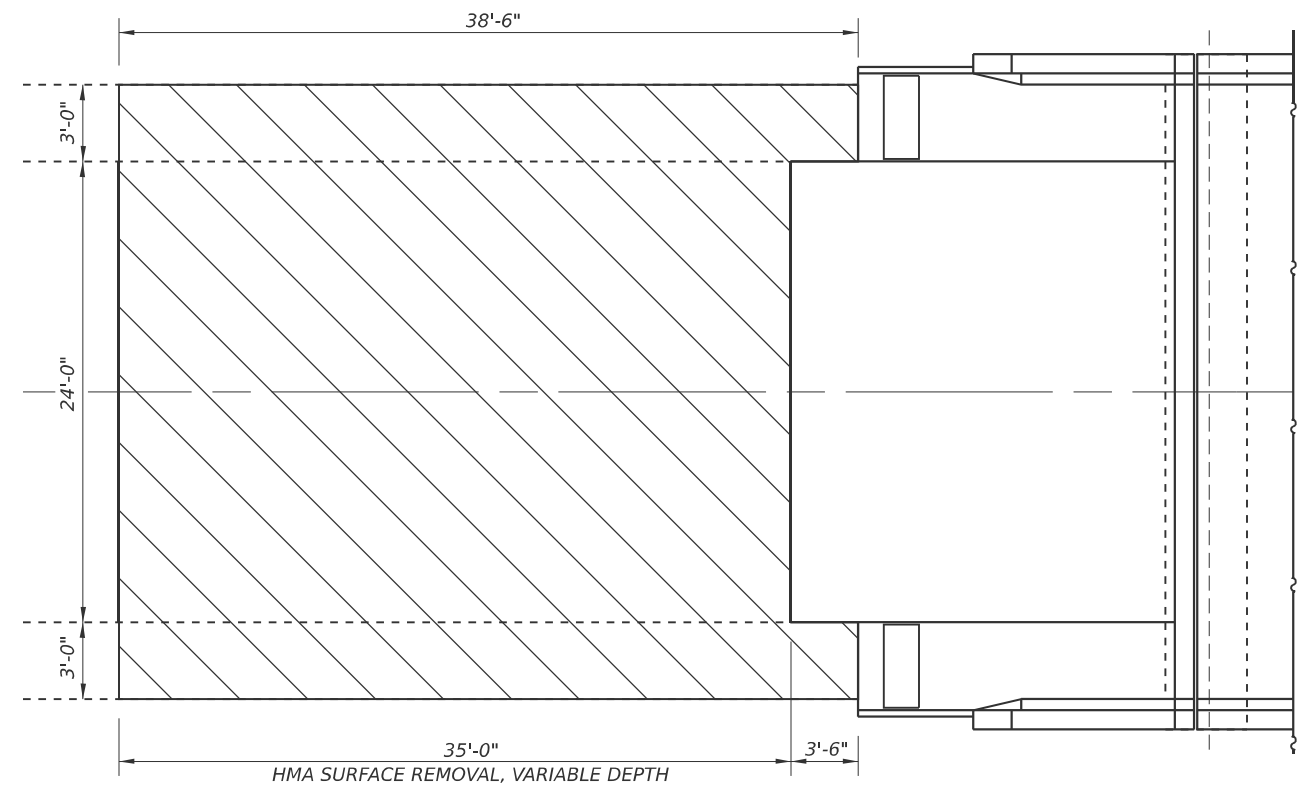
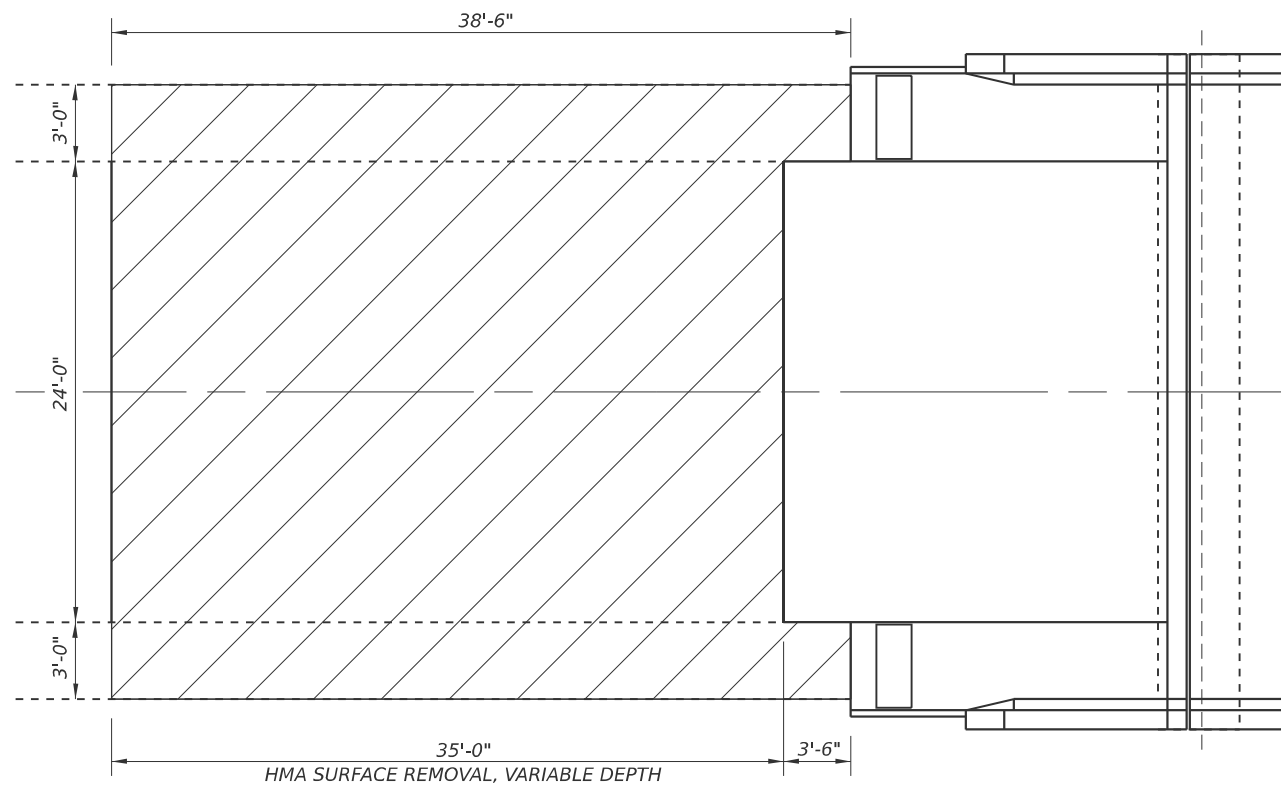
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING
S.N. 092-0058

SCALE: NONE	SHEET 18	OF 20	SHEETS	STA. <u> </u> + <u> </u>	TO STA. <u> </u> + <u> </u>
-------------	----------	-------	--------	--------------------------------	-----------------------------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	24
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

MODEL: Str. Plans 092-2058-18 [Sheet]
FILE NAME: pwl\ltdol-cow.bentley.com:PWD\DOT\Documents\DOT Offices\District 5\ORD Projects\DS7\0371\Str. 092-2058 Workfile.dgn



LEGEND

HMA SURFACE REMOVAL,
BUTT-JOINT

HMA SURFACE COURSE, IL MIX "C"
N50 (196 LBS/SQ YD)

NOTE

PART OF THE PRE-STAGE SHOULDER RESURFACING MAY BE REMOVED DURING FINAL PAVING TRANSITION THAT ARE REQUIRED TO MATCH PROPOSED DECK ELEVATION.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX-ASPHALT SURFACE REMOVAL, BUTT JOINT	SQ YD	238.0
HOT-MIX-ASPHALT SURFACE COURSE, MIX "C" N50	TON	24.0

QUANTITIES INCLUDED FOR BOTH APPROACH TRANSITIONS

USER NAME = Jeff.Sherer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 1/14/2025	DATE -	REVISED -

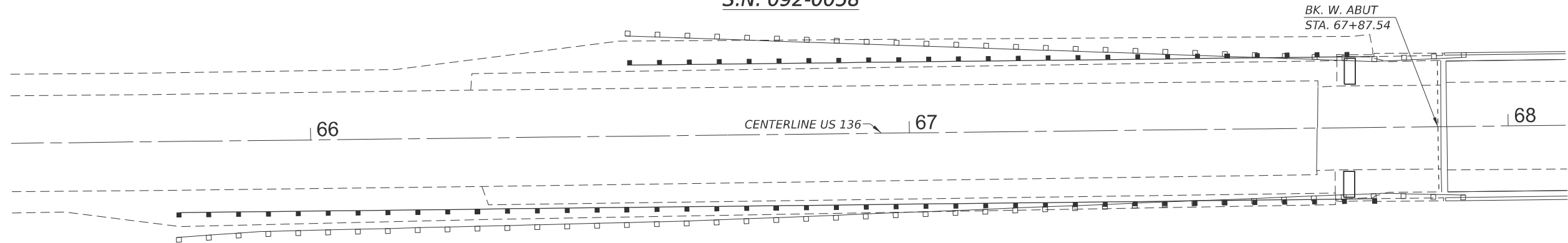
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

APPROACH TRANSITION DETAILS
S.N. 092-0058

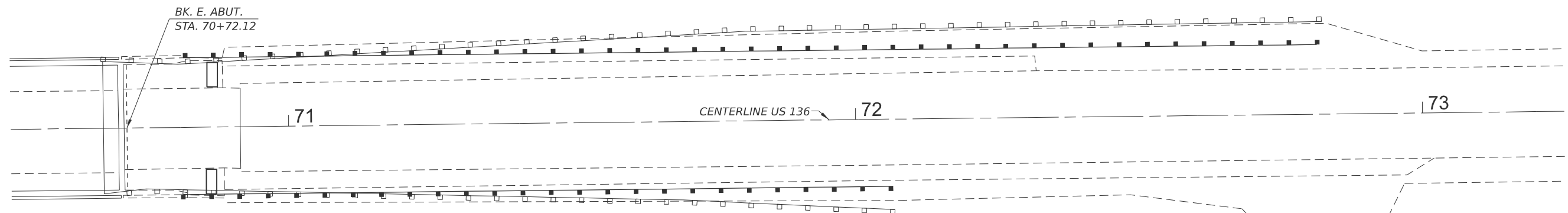
SCALE: NONE	SHEET 20	OF 20	SHEETS	STA. + .	TO STA. + .
-------------	----------	-------	--------	----------	-------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	26
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

MODEL: Str. Plans 092-0058-20 [Sheet]
FILE NAME: pwr://dot-pw.bentley.com/PWDOT/Documents/IDOT Offices/District 5/ORD Projects/D570G71/CADData/Bridge/D570G71_5/Str. 092-0058 Workfile.dgn



GUARDRAIL & TRAFFIC BARRIER TERMINALS								
			63000001	63100085	63100167	78201000	78200410	63200310
STRUCTURE 092-0058			SPBGR TYPE A 6 FT POSTS	TBT TYPE 6	TBT TYPE 1 (SPEC) TAN	TERMINAL MARKER DIR APP	GUARDRAIL MARKERS TYPE A	GAURDRAIL REMOVAL
	BEGIN	END						
STATION	STATION	STATION	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)
RIGHT	65+77.0	67+92.0						215.0
RIGHT	65+78.0	66+28.0			1.0	1.0	1.0	
RIGHT	66+28.0	67+40.5	112.5				2.0	
RIGHT	67+40.5	67+78.0		1.0				
LEFT	66+52.0	67+92.0						140.0
LEFT	66+53.0	67+03.0			1.0	1.0	1.0	
LEFT	67+03.0	67+40.5	37.5				1.0	
LEFT	67+40.5	67+78.0		1.0				
		TOTALS	150.0	2.0	2.0	2.0	5.0	355.0



GUARDRAIL & TRAFFIC BARRIER TERMINALS								
			63000001	63100085	63100167	78201000	78200410	63200310
STRUCTURE 092-0058			SPBGR TYPE A 6 FT POSTS	TBT TYPE 6	TBT TYPE 1 (SPEC) TAN	TERMINAL MARKER DIR APP	GUARDRAIL MARKERS TYPE A	GAURDRAIL REMOVAL
	BEGIN	END						
STATION		STATION	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)
RIGHT	70+68.0	72+08.0						140.0
RIGHT	70+81.5	71+19.0		1.0				
RIGHT	71+19.0	71+56.5	37.5				1.0	
RIGHT	71+56.5	72+06.5			1.0	1.0	1.0	
LEFT	70+68.0	72+83.0						215.0
LEFT	70+81.5	71+19.0		1.0				
LEFT	71+19.0	72+31.5	112.5				2.0	
LEFT	72+31.5	72+81.5			1.0	1.0	1.0	
		TOTALS	150.0	2.0	2.0	2.0	10.0	355.0

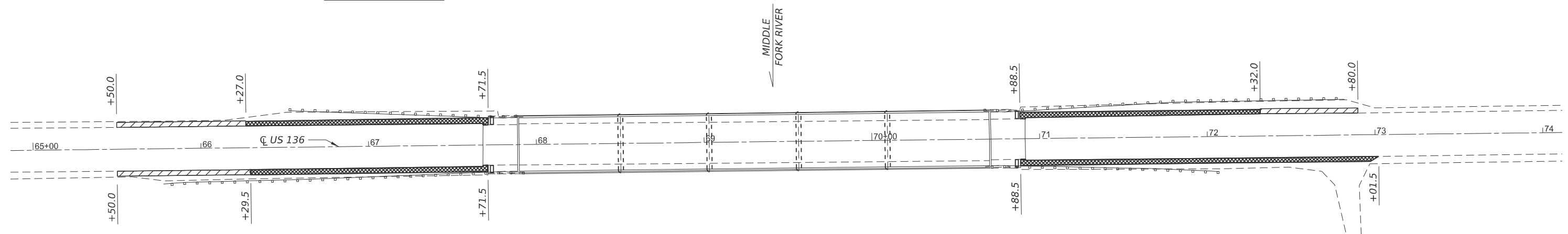
ITEM	UNIT	TOTAL
GAURDRAIL REMOVAL	FOOT	710.0
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	300.0
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.0
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.0
GUARDRAIL MARKERS, TYPE A	EACH	10.0
TERMINAL MARKER - DIRECT APPLIED	EACH	4.0

S.N. 092-0058

<i>EARTH EXCAVATION (Pre-Stage) Stage I</i>							
<i>STR.</i>		<i>BEGIN</i>	<i>END</i>	<i>LENGTH</i>	<i>WIDTH</i>	<i>DEPTH</i>	<i>REMOVAL</i>
<i>092-0058</i>	<i>SIDE</i>	<i>STATION</i>	<i>STATION</i>	<i>(FOOT)</i>	<i>(FOOT)</i>	<i>(FOOT)</i>	<i>(CU YD)</i>
	<i>LEFT</i>	<i>65+50.0</i>	<i>66+27.0</i>	<i>77.0</i>	<i>3.0</i>	<i>0.67</i>	<i>5.73</i>
	<i>LEFT</i>	<i>72+32.0</i>	<i>72+80.0</i>	<i>48.0</i>	<i>3.0</i>	<i>0.67</i>	<i>3.57</i>
						<i>TOTAL</i>	<i>9.30</i>
						<i>PLAN</i>	<i>10.00</i>

HOT-MIX ASPHALT SHOULDERS, 8" (Pre-Stage) Stage 1						
STR.		BEGIN	END	LENGTH	WIDTH	AREA
092-0058	SIDE	STATION	STATION	(FOOT)	(FOOT)	(SQ YD)
	LEFT	65+50.0	66+27.0	77.0	3.0	25.67
	LEFT	72+32.0	72+80.0	48.0	3.0	16.00
					TOTAL	41.67
					PLAN	42.00

HMA SURFACE REMOVAL 2" & HMA SHOULDERS, 2" (Pre-Stage) Stage I						
STR.		BEGIN	END	LENGTH	WIDTH	AREA
092-0058	SIDE	STATION	STATION	(FOOT)	(FOOT)	(SQ YD)
	LEFT	66+27.0	67+71.5	144.5	3.0	48.17
	LEFT	70+88.5	72+32.0	143.5	3.0	47.83
					TOTAL	96.00
					PLAN	96.00



EARTH EXCAVATION (Pre-Stage) Stage II							
STR.		BEGIN	END	LENGTH	WIDTH	DEPTH	REMOVAL
092-0058	SIDE	STATION	STATION	(FOOT)	(FOOT)	(FOOT)	(CU YD)
	RIGHT	65+50.0	66+29.5	79.5	3.0	0.67	5.92
						TOTAL	5.92
						PLAN	6.00

HOT-MIX ASPHALT SHOULDERS, 8" (Pre-Stage) Stage II						
STR.		BEGIN	END	LENGTH	WIDTH	AREA
092-0058	SIDE	STATION	STATION	(FOOT)	(FOOT)	(SQ YD)
	RIGHT	65+50.0	66+29.5	79.5	3.0	26.50
					TOTAL	26.50
					PLAN	27.00

HMA SURFACE REMOVAL 2" & HMA SHOULDERS 2" (Pre-Stage) Stage II						
STR.		BEGIN	END	LENGTH	WIDTH	AREA
092-0058	SIDE	STATION	STATION	(FOOT)	(FOOT)	(SQ YD)
	RIGHT	66+29.5	67+71.5	142.0	3.0	47.34
	RIGHT	70+88.5	73+01.5	213.0	3.0	71.00
					TOTAL	118.34
					PLAN	119.00



EARTH EXCAVATION
HOT-MIX-ASPHALT SHOULDERS, 8"

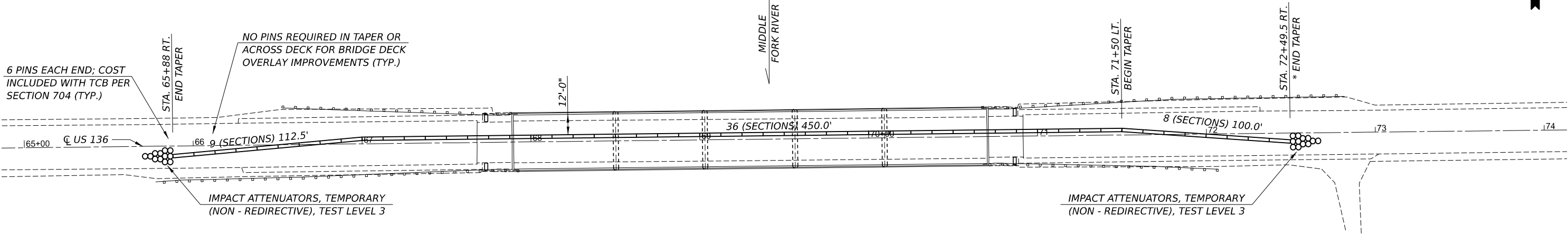


HMA SURFACE REMOVAL 2"
HMA SURFACE COURSE 2"

BILL OF MATERIALS

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	16.0
HOT-MIX-ASPHALT SURFACE REMOVAL, 2"	SQ YD	215.0
HOT-MIX-ASPHALT SHOULDERS, 2"	SQ YD	215.0
HOT-MIX-ASPHALT SHOULDERS. 8"	SQ YD	69.0

TEMPOARY BARRIER LAYOUT - STAGE I
S.N. 092-0058



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORADANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201, 701301 & 701316.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

REFLECTOR SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST TO BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

PINNING TEMPORARY CONCRETE BARRIER SHALL BE IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 704 OF THE STANDARD SPECIFICATIONS AND SHALL INCLUDE INSTALLATION OF ADDITIONAL ANCHOR PINS ON THE TRAFFIC SIDE OF THE BARRIER WALL WHEN THE DROP-OFF BEHIND THE BARRIER IS LESS THAN 37 INCHES DISTANCE FROM THE BARRIER WALL, OR AS DIRECTED BY THE ENGINEER. REFER TO THE BUREAU OF SATIETY PROGRAMS AND ENGINEERING'S POLICY MEMORANDUM SAFETY 4-21 FOR GUIDANCE ON MITIGATING LONGITUDINAL DROP-OFFS AND PINNING.

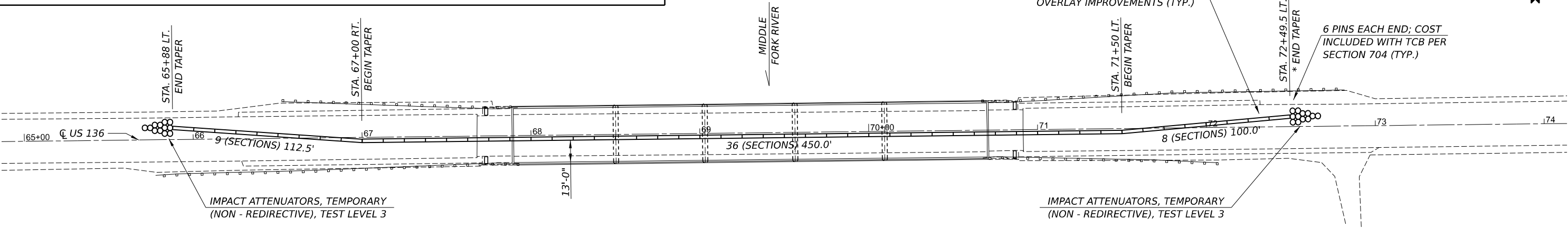
* 6 PINS EACH END; COST INCLUDED WITH TEMPORARY CONCRETE BARRIER PER SECTION 704.

NO PINS REQUIRED IN TAPER ACROSS DECK FOR BRIDGE DECK OVERLAY IMPROVEMENTS.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FEET	662.5
IMPACT ATTENUATORS, TEMPORARY (NON - REDIRECTIVE), TEST LEVEL 3	EACH	2.0

TEMPOARY BARRIER LAYOUT - STAGE II
S.N. 092-0058



* 6 PINS EACH END; COST INCLUDED WITH TEMPORARY CONCRETE BARRIER PER SECTION 704.

NO PINS REQUIRED IN TAPER ACROSS DECK FOR BRIDGE DECK OVERLAY IMPROVEMENTS.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
RELOCATE TEMPORARY CONCRETE BARRIER	FEET	662.5
IMPACT ATTENUATORS, RELOCATE (NON - REDIRECTIVE), TEST LEVEL 3	EACH	2.0

MODEL: SHORLNAME
FILE NAME: P:\Projects\0920058\0920058.dgn
PROJECT: 0920058
SHEET: 29
DATE: 1/30/2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY BARRIER LAYOUT
S.N. 092-0058

SCALE: 1" = 20'

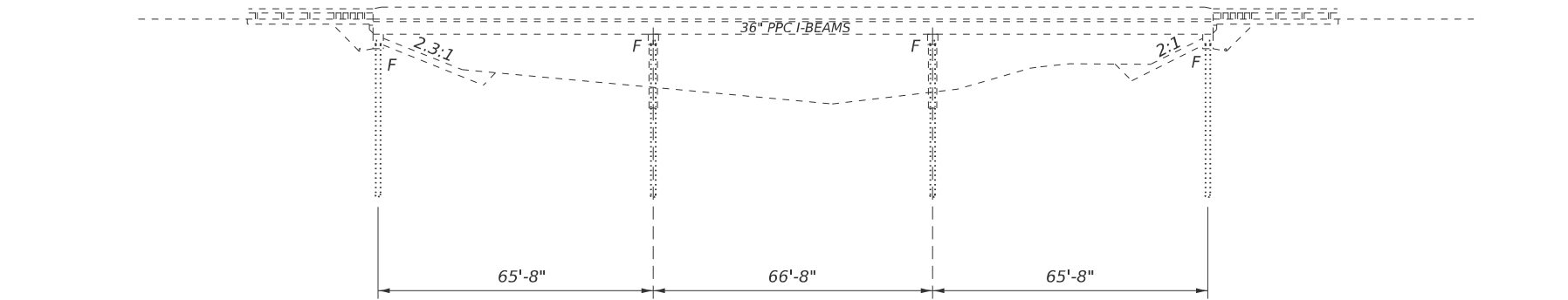
SHEET 1 OF 1 SHEETS STA. 65+88 TO STA. 72+49.5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	29
*FAP 709, FAP 840		CONTRACT NO. 70G71		
		ILLINOIS FED. AID PROJECT		

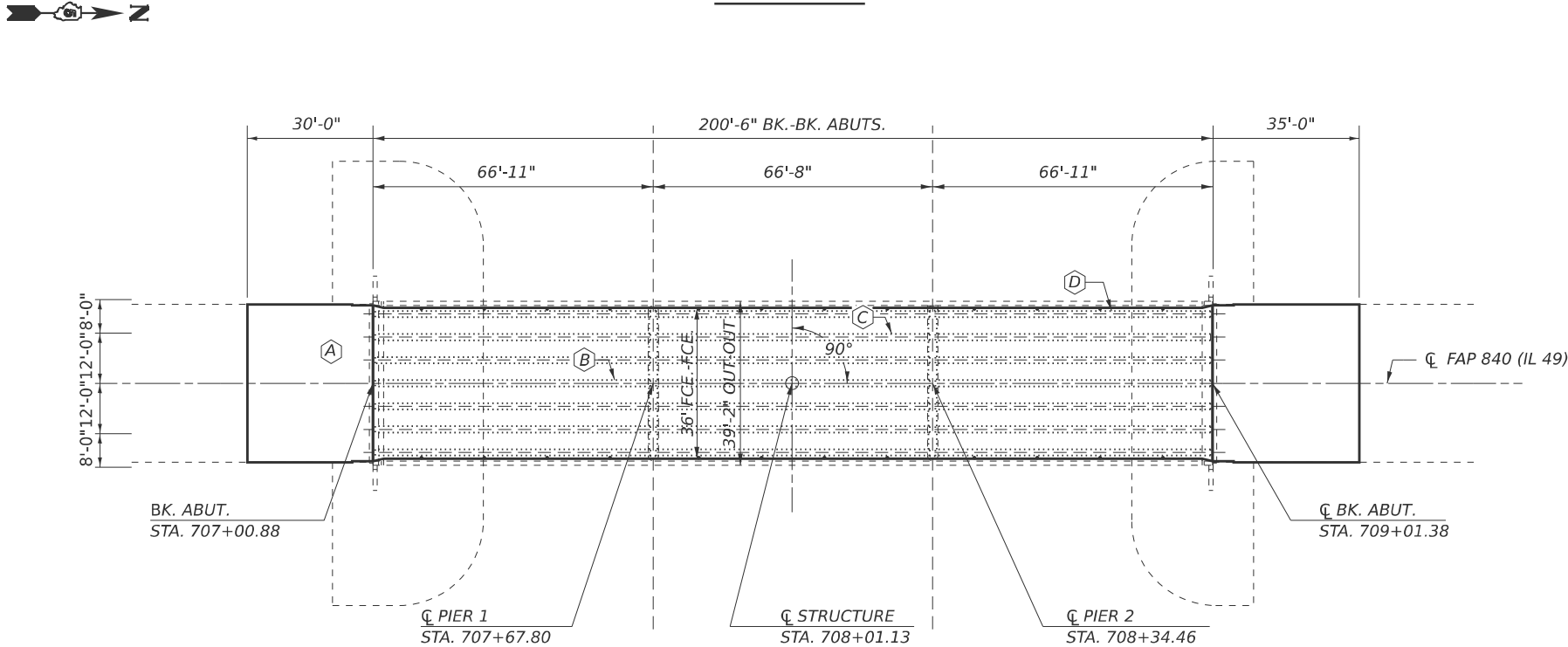
S.N. 092-0196 WAS BUILT IN 1993 AS FAP 840 (IL 49), SECTION 121BR AT STATION 708+01.13 IN VERMILION COUNTY. THE STRUCTURE HAS A BACK-TO-BACK ABUTMENT LENGTH OF 200'-6", OUT-TO-OUT WIDTH OF 39'-2", BRIDGE ROADWAY WIDTH OF 36'-0", AND AN APPROACH ROADWAY WIDTH OF 26'-0".

SEE PROPOSED IMPRVEMENTS ON THIS SHEET

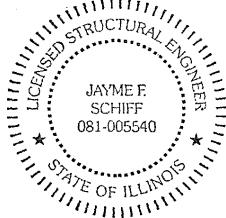
WORK SHALL BE COMPLETED UNDER STAGED CONSTRUCTION



ELEVATION



PLAN



EXPIRES 11-30-2026

Jayme F. Schiff

- A** BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY 2½"
- B** PPC I-BEAM REPAIR LOCATION - REPAIR B
- C** PPC I-BEAM REPAIR LOCATION - REPAIR C
- D** PPC I-BEAM REPAIR LOCATION - REPAIR D

GENERAL NOTES

PRIOR TO POURING NEW CONCRETE DECK, ALL LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES OF THE BEAMS OR GIRDERS IN CONTACT WITH CONCRETE. THE COST OF THIS WORK WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE. ALL HEAVY RUST AND OTHER TIGHTLY ADHERED POTENTIALLY DETRIMENTAL FOREIGN MATTER SHALL ALSO BE REMOVED FROM THE SURFACES OF THE BEAMS OR GIRDERS IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. THIS REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL. THE COST OF THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PLAN DIMENSIONS AND DETAILS HAVE BEEN TAKEN FROM EXISTING STRUCTURE AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL OPERATIONS SHALL BE REPAIRED OR REPLACED USING AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCIDENTAL TO "CONCRETE REMOVAL".

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE SUPERSTRUCTURE AND ALL NEW CONCRETE OVERLAYS AS SPECIFIED IN ARTICLE 503.19 OF THE STANDARD SPECIFICATIONS.

SYNTHETIC FIBERS SHALL BE INCLUDED IN THE BRIDGE DECK CONCRETE OVERLAY SPECIFIED. SEE SPECIAL PROVISIONS.

PROPOSED IMPROVEMENTS

- 1. DECK SLAB REPAIR (FULL DEPTH) AT SELECT LOCATIONS
- 2. FIBER WRAP REPAIRS AT SELECT LOCATIONS
- 3. BRIDGE DECK SCARIFICATION TO DECK AND APPROACH PAVEMENTS
- 4. BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY TO DECK AND APPROACH PAVEMENTS

INDEX OF SHEETS

- 1. GENERAL PLAN/ ELEV. S.N. 092-0196
- 2. EXISTING DECK CROSS-SECTION
- 3. DETAIL OF STAGED CONSTRUCTION
- 4. DETAIL OF DECK SLAB REPAIR
- 5. DETAIL OF WEARING SURFACE
- 6. DETAIL OF PPC I-BEAM REPAIR

BILL OF MATERIALS

ITEM	UNIT	TOTAL
PROTECTIVE COAT	SQ. YD.	1,074.0
ACRYLIC COATING	SQ. YD.	15.0
FIBER WRAP	SQ. FT.	132.0
BRIDGE DECK GROOVING - LONGITUDINAL	SQ. YD.	1,044.0
BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY 2½"	SQ. YD.	802.0
BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY 4"	SQ. YD.	272.0
BRIDGE DECK SCARIFICATION ¾"	SQ. YD.	1,074.0
PPC CONCRETE I-BEAM REPAIR	SQ. FT.	20.0
DIAMOND GRINDING BRIDGE SECTION	SQ. YD.	955.0
DECK SLAB REPAIR (FULL DEPTH TYPE I)	SQ. YD.	9.2
DECK SLAB REPAIR (FULL DEPTH TYPE II)	SQ. YD.	32.2

MODEL: CPE SHEET (Sheet)
FILE NAME: p:\work\projects\092-0196\092-0196-01\092-0196-01.dgn

USER NAME	Jeff.Sherer	DESIGNED	JMS	REVISED	-
DRAWN	JMS	REVISION	-	REVISION	-
PLOT SCALE	SSCALE\$	CHECKED	-	REVISION	-
PLOT DATE	3/18/2025	DATE	082323	REVISION	-

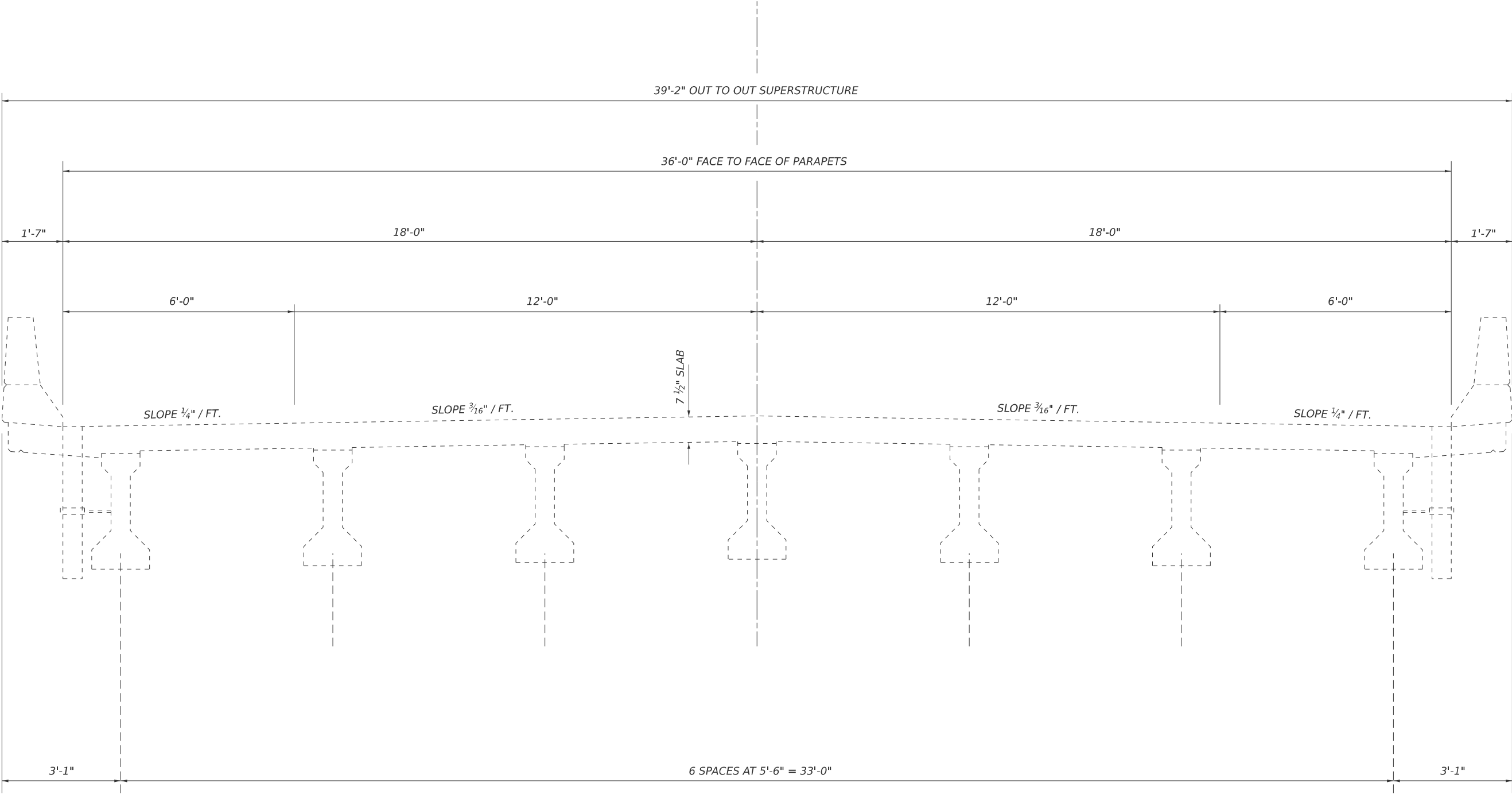
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
S.N. 092-0196

SCALE: 1"=20' SHEET 1 OF 11 SHEETS STA. 707+00.88 TO STA. 709+01.38

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	30
	*FAP 709, FAP 840			CONTRACT NO. 70G71
		ILLINOIS		FED. AID PROJECT

EXISTING TYPICAL CROSS-SECTION (LOOKING NORTH)



USER NAME = Je%\$Sherer	DESIGNED = JMS	REVISED =
	DRAWN = JMS	REVISED =
PLOT SCALE = \$SCALE\$	CHECKED =	REVISED =
PLOT DATE = 1/14/2025	DATE = 082323	REVISED =

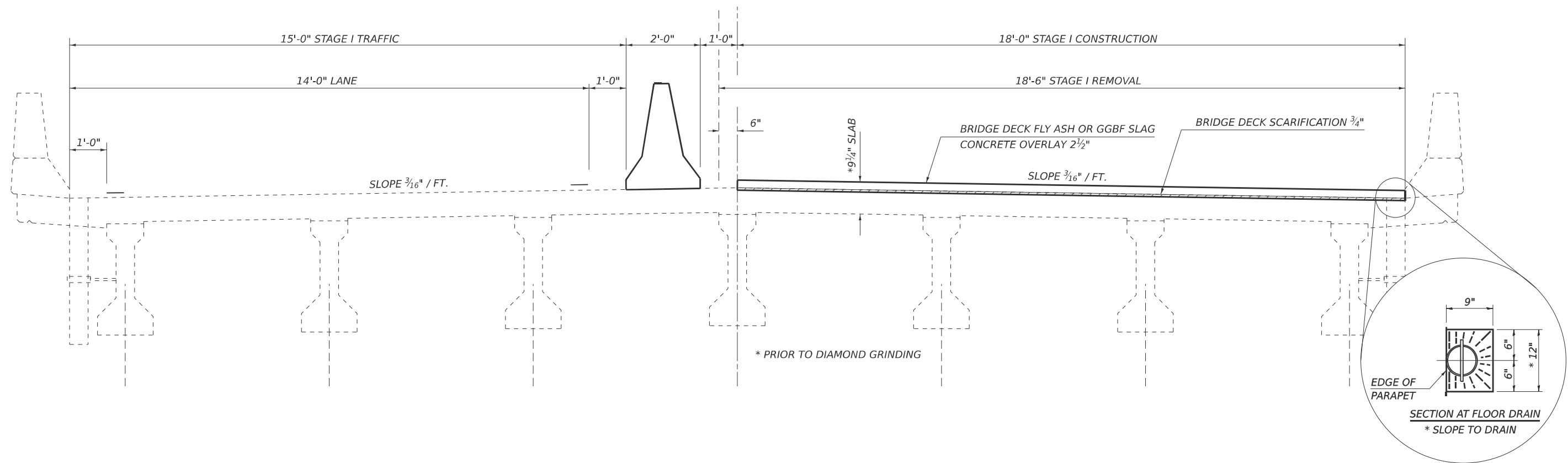
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS-SECTION
S.N. 092-0196

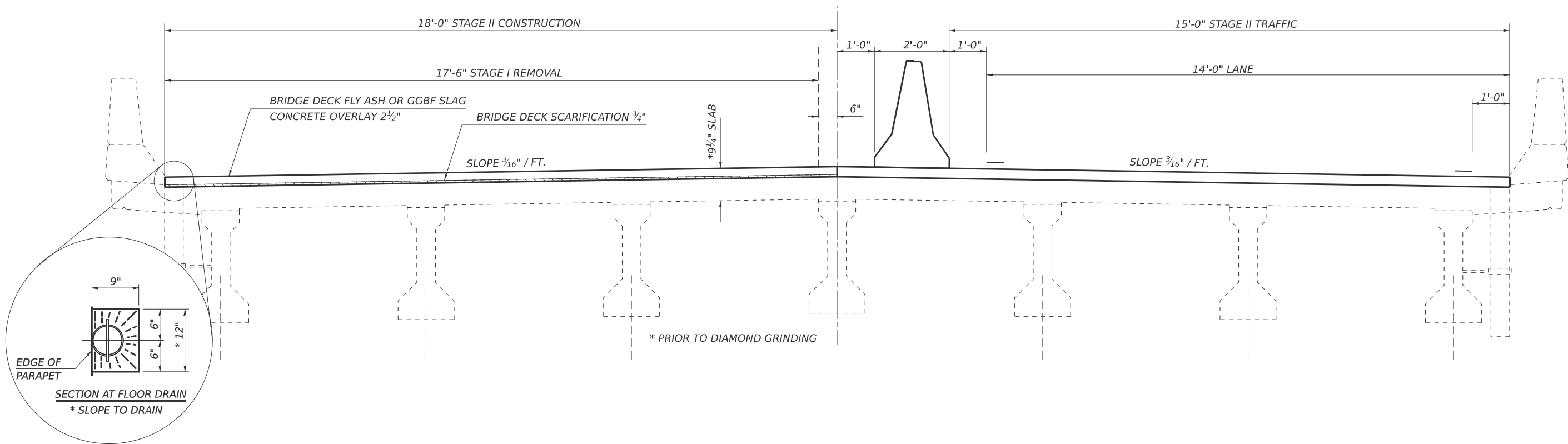
SCALE: NONE SHEET 2 OF 11 SHEETS STA. + . TO STA. + .

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	31
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

STAGE I TEMPORARY CONCRETE BARRIER LAYOUT



STAGE II TEMPORARY CONCRETE BARRIER LAYOUT



MODEL: STAGE SHEET / (Sheet)
FILE NAME: p:\projects\2021\092-0196\workfile.dgn

USER NAME = Jeff.Sherer	DESIGNED - JMS	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - JMS	REVISED -
PLOT DATE = 1/14/2025	CHECKED -	REVISED -
	DATE - 082323	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL STAGING DETAIL S.N. 092-0196			
SCALE: NONE	SHEET 3	OF 11 SHEETS	STA. ____+____ TO STA. ____+____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	32
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

MODEL: STAGE SHEET 2 (Sheet)
FILE NAME: pwr://ldot-pw.bentley.com/PWIDOT/IDOT Documents/IDOT Offices/District 5/ORD Projects/D570G71/CADDData/Bridge/D570G71-092-0196-Workfile.dgn



VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TREAFFIC CONTROL AND PROTECTION 702321.

PINNING TEMPORARY CONCRETE BARRIER SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE STANDARD SPECIFICATIONS AND SHALL INCLUDE INSTALLATION OF ADDITIONAL ANCHOR PINS ON THE TRAFFIC SIDE OF THE BARRIER WALL WHEN THE DROP-OFF BEHIND THE BARRIER IS LESS THAN 37 INCHES IN DISTANCE FROM THE BARRIER WALL, AS DIRECTED BY THE ENGINEER. REFER TO THE BUREAU OF SAFETY PROGRAMS AND ENGINEERING'S POLICY MEMORANDUM SAFETY 4-21 FOR GUIDANCE ON MITIGATING LONGITUDINAL DROP-OFFS AND PINNING.

48203029 HOT-MIX ASPHALT SHOULDERS, 8"

--- TEMPORARY CONCRETE BARRIER

 PROPOSED WORK AREA

 IMPACT ATTENUATOR

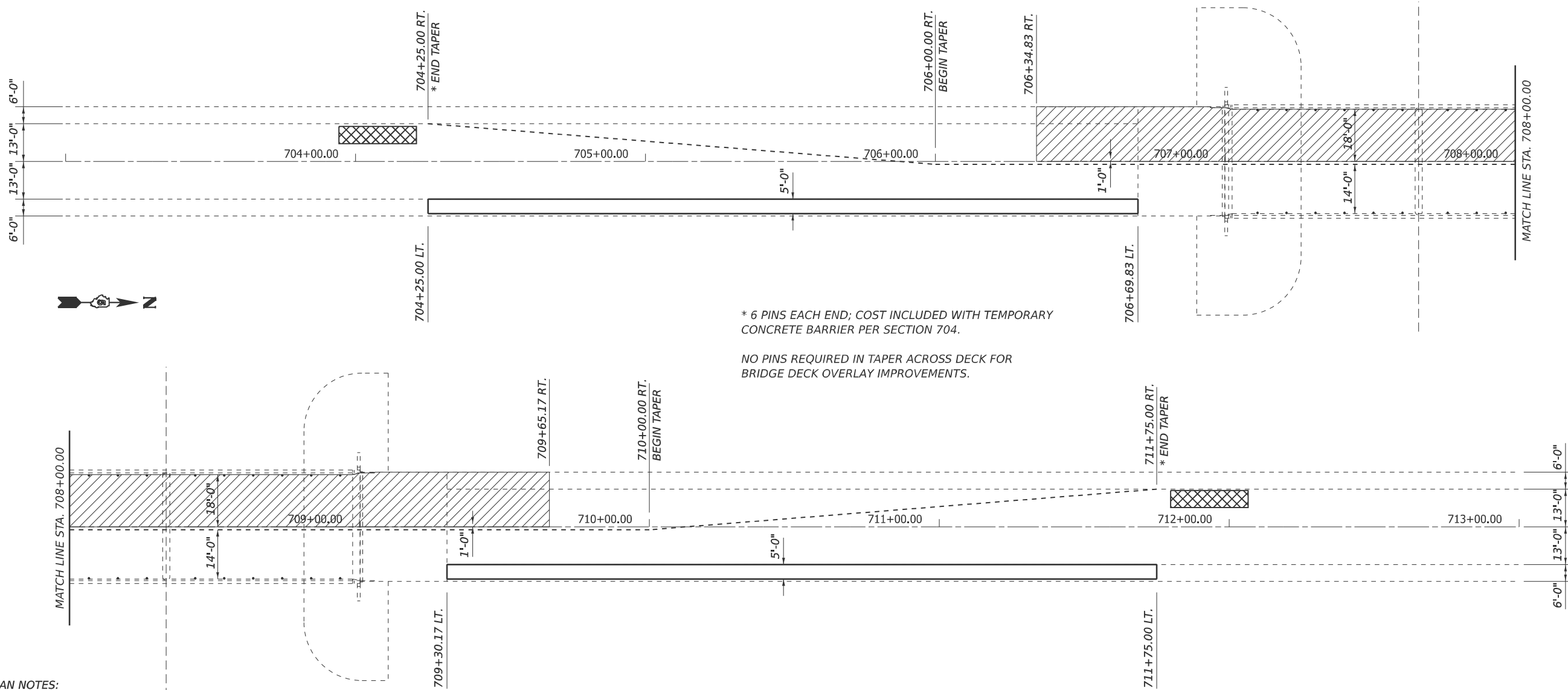
 HMA SHOULDERS, 8"

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SHOULDERS, 8"	SQ. YD.	201.0
TEMPORARY CONCRETE BARRIER	FOOT	750.0
IMPACT ATTENUATOR TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2.0

SCALE: NONE	SHEET 4	OF 11	SHEETS	STA. + .	TO STA. + .
-------------	---------	-------	--------	----------	-------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	33
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

STAGE II TEMPORARY CONCRETE BARRIER LAYOUT



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201, 701301 AND 701316.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TREAFFIC CONTROL AND PROTECTION 702321.

TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM THE STOP BAR TO STOP BAR. AS SHOWN ON STANDARD 701321. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

PINNING TEMPORART CONCRETE BARRIER SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE STANDARD SPECIFICATIONS AND SHALL INCLUDE INSTALLATION OF ADDITIONAL ANCHOR PINS ON THE TRAFFIC SIDE OF THE BARRIER WALL WHEN THE DROP-OFF BEHIND THE BARRIER IS LESS THAN 37 INCHES IN DISTANCE FROM THE BARRIER WALL, AS DIRECTED BY THE ENGINEER. REFER TO THE BUREAU OF SAFETY PROGRAMS AND ENGINEERING'S POLICY MEMORANDUM SAFETY 4-21 FOR GUIDANCE ON MITIGATING LONGITUDINAL DROP-OFFS AND PINNING.

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

		STATION	TO	STATION	LENGTH
TAPER	RT	704+25.00	RT	706+00.00	175.0
	RT	706+00.00	RT	710+00.00	400.0
TAPER	RT	710+00.00	RT	711+75.00	175.0
SUB-TOTAL =					750.0

48203029 HOT-MIX ASPHALT SHOULDERS, 8"

	STATION	TO	STATION	LENGTH	WIDTH	SQ YD
LT	704+25.00	LT	706+69.83	244.8	5.0	136.0
LT	709+30.17	LT	711+75.00	244.8	5.0	136.0
SUB-TOTAL =						201.0

- TEMPORARY CONCRETE BARRIER
- PROPOSED WORK AREA
- IMPACT ATTENUATOR
- HMA SHOULDERS, 8"

BILL OF MATERIALS
STAGE II

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SHOULDERS, 8"	SQ. YD.	201.0
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	750.0
IMPACT ATTENUATOR TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2.0

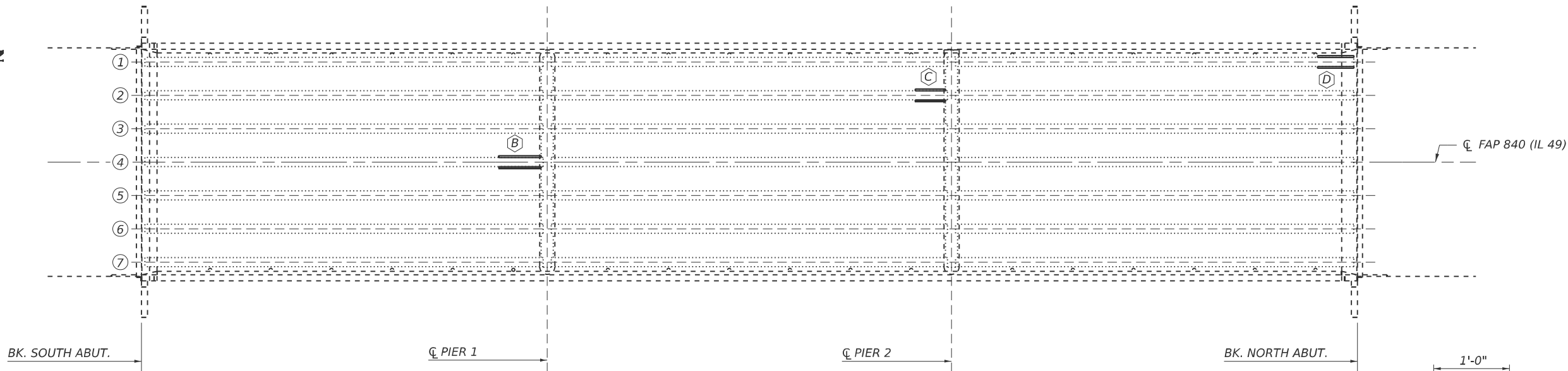
MODEL: STAGE SHEET 3 (Sheet)
FILE NAME: p:\projects\2025\092-0196\stage3.dgn

USER NAME = Jeff.Sherer	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 1/14/2025	DATE - 082323	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

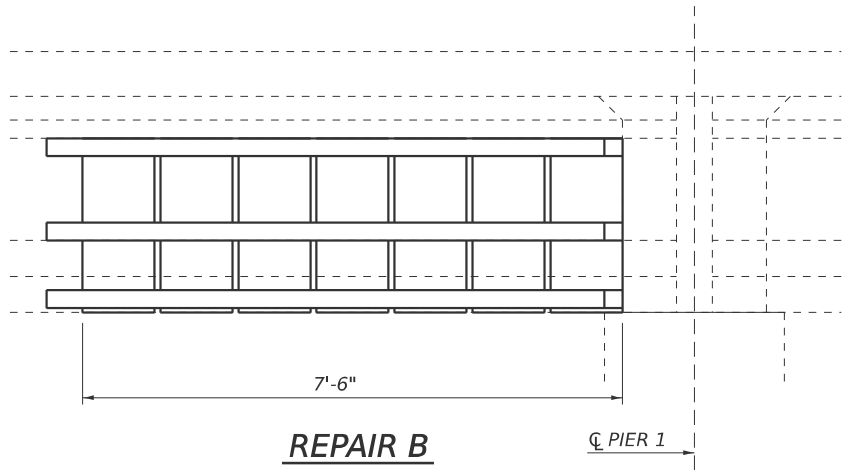
STAGE II LAYOUT DETAIL S.N. 092-0196		
SCALE: NONE	SHEET 5 OF 11 SHEETS	STA. ____+____ TO STA. ____+____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	34
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

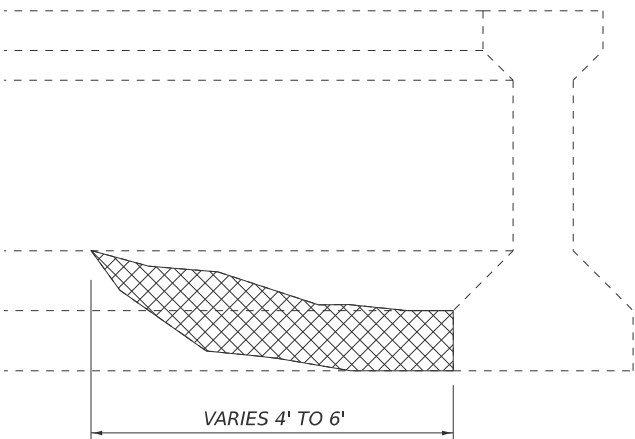


PLAN

- Ⓑ PPC I-BEAM REPAIR LOCATION - REPAIR B
- Ⓒ PPC I-BEAM REPAIR LOCATION - REPAIR C
- Ⓓ PPC I-BEAM REPAIR LOCATION - REPAIR D

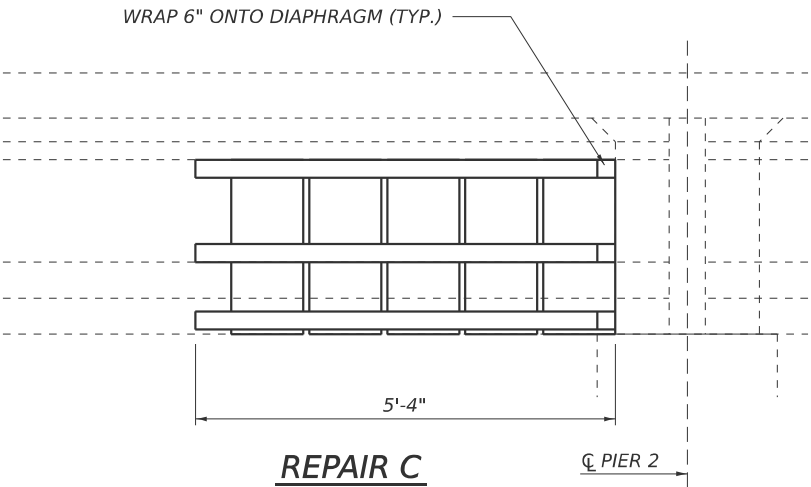


REPAIR B

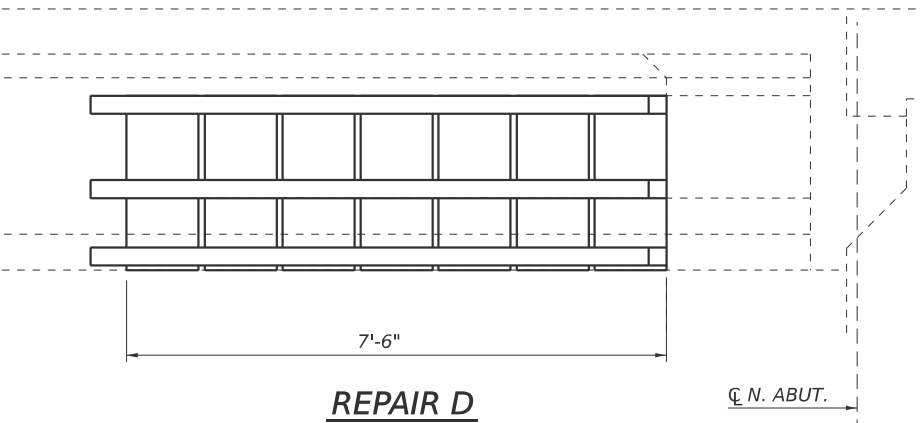


ISOMETRIC VIEW BEAMS

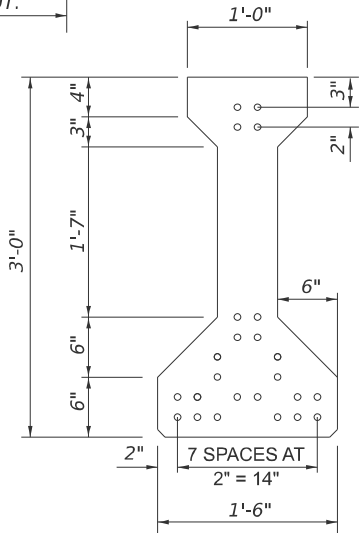
(BEAM 1 LOOKING EAST AT NORTH ABUTMENT)



REPAIR C



REPAIR D



CROSS-SECTION

(SHOWING DIMENSIONS AND PRE-STRESSING STRANDS)

NOTES:

THE CONTRACTOR SHALL USE EXTREME CARE DURING CONCRETE REMOVAL SO AS NOT TO DAMAGE THE PCC I-BEAM.

THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND PREPARED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR PC I-BEAM REPAIRS.

SEE SPECIAL PROVISIONS FOR "FRP STRENGTHENING FOR PPC I-BEAM REPAIRS"

SEE SPECIAL PROVISIONS FOR "PRECAST PRESTRESSED I-BEAM REPAIRS"

ACRYLIC COATING SHALL BE PLACED OVER THE FIBER WRAP REPAIRS. TWO COATS SHALL BE APPLIED.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
FIBER WRAP	SQ. FT.	132.0
ACRYLIC COATING	SQ. YD.	15.0
PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ. FT.	20.0

MODEL: FRP REPAIR 1 (Sheet)
FILE NAME: p:\gis\pcc\company.com\p\DOT\Documents\DOT Office\District 5\ORD Projects\District 5\ORD\DOT\Bids\0570671\0570671-092-0196\Workfile.dgn

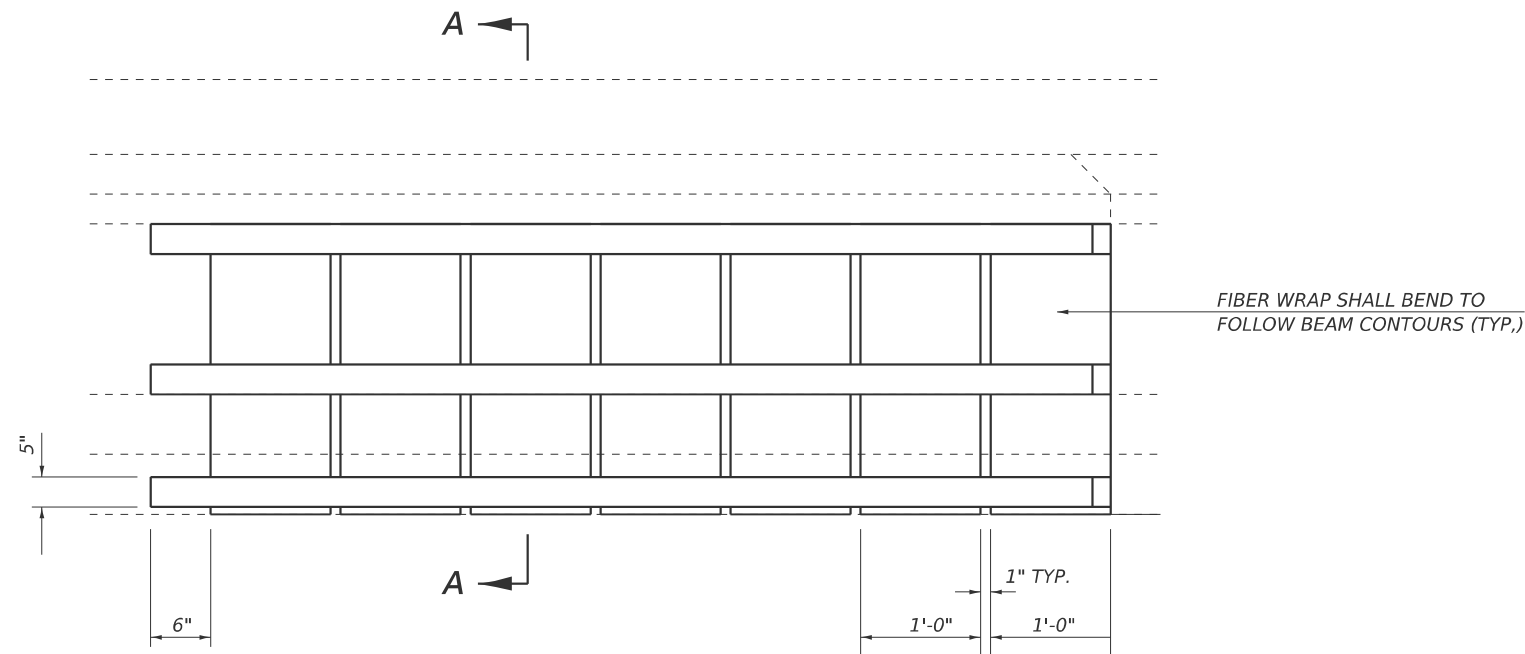
USER NAME = Jeff.Sherer	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 3/18/2025	DATE - 082323	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

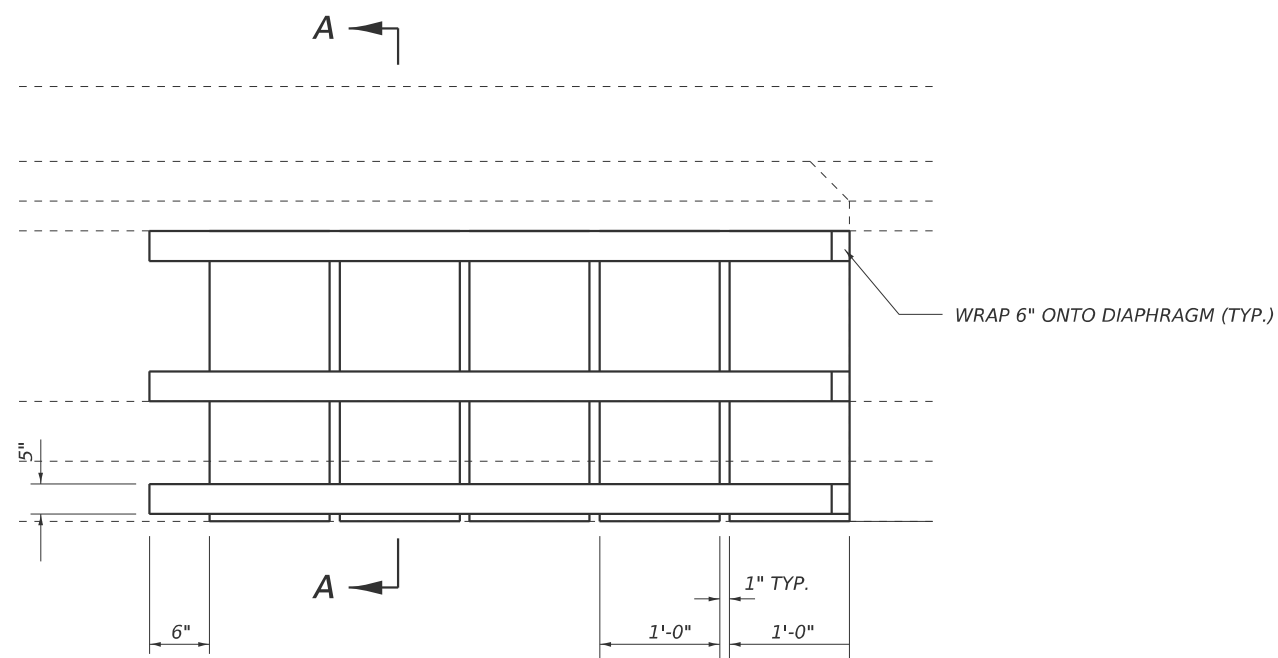
DETAIL OF PPC I-BEAM REPAIR
S.N. 092-0196

SCALE: NONE SHEET 6 OF 11 SHEETS STA. __+__ TO STA. __+__

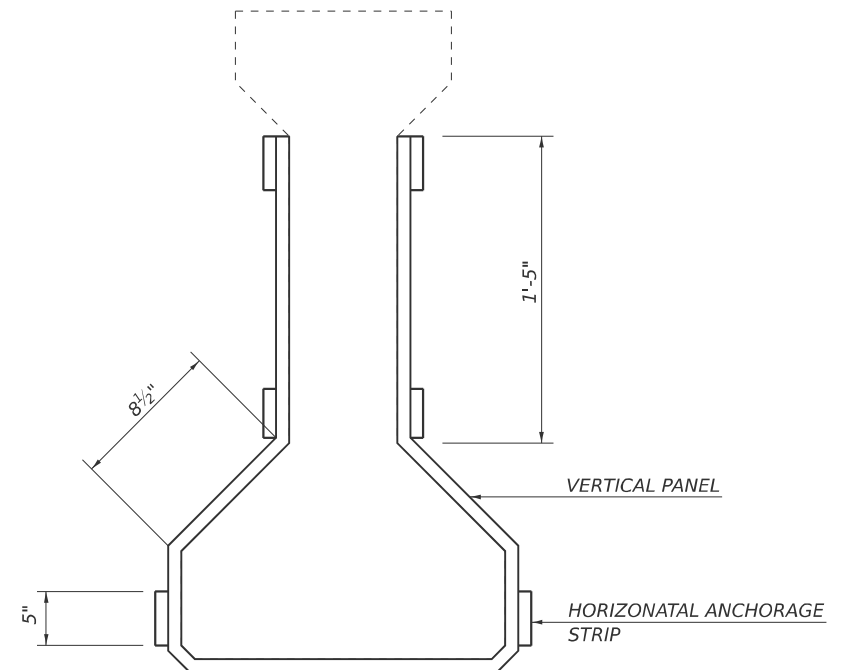
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	35
	*FAP 709, FAP 840			CONTRACT NO. 70G71
		ILLINOIS		FED. AID PROJECT



TYPICAL BEAM END ELEVATION
LOCATIONS B AND D



TYPICAL BEAM END ELEVATION
LOCATION C



SECTION A-A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

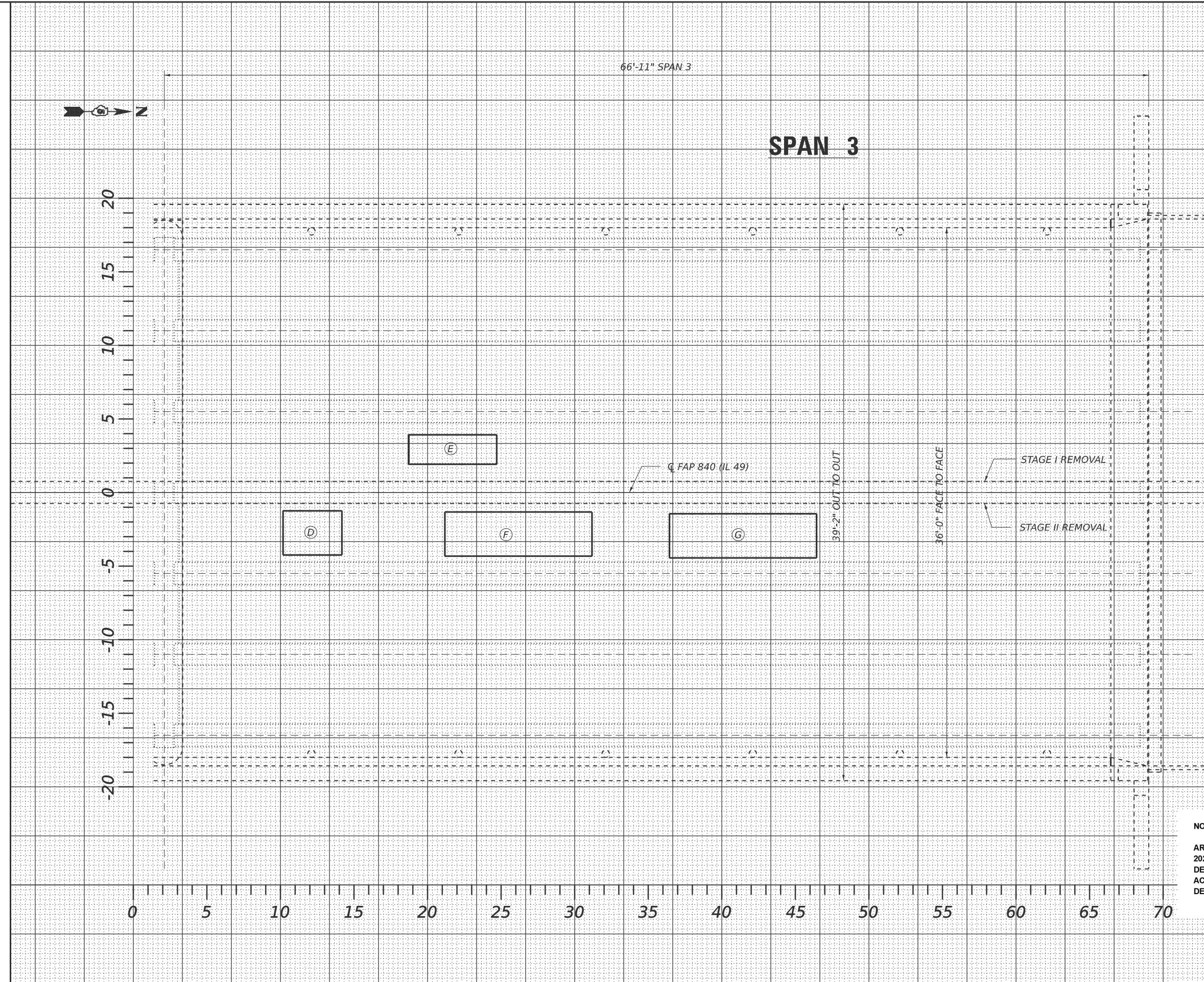
DETAIL OF PPC I-BEAM REPAIR
S.N. 092-0196

SCALE: NONE SHEET 7 OF 11 SHEETS STA. ____+____ TO STA. ____+____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	36
*FAP 709, FAP 840		CONTRACT NO. 70G71		
		ILLINOIS	FED. AID PROJECT	



MODEL: DECK SLAB REPAIR (Sheet)
FILE NAME: p:\projects\2025\092-0196\DOT\Documents\DOT Office\Detail 5\ORD Project\092-0196\DOT\092-0196-A\Detail.dgn



PATCH NO.	SIZE		DECK SLAB REPAIR (FULL DEPTH T1)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD
A	30	4		13.3
B	20	4		8.9
C	30	3		10.0
D	6	2	1.3	
E	4	3	1.3	
F	10	3	3.3	
G	10	3	3.3	
TOTAL =			9.3	32.2

NOTES:

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM A FEBRUARY, 2023 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK SLAB REPAIRS ON DECK PATCHING DETAIL SHEETS.

USER NAME = Jeff.Sherer	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 1/14/2025	DATE - 082323	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF DECK SLAB REPAIR			
S.N. 092-0196			
SCALE: SEE ABOVE	SHEET 10	OF 11 SHEETS	STA. ____+____ TO STA. ____+____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	39
*FAP 709, FAP 840		CONTRACT NO. 70G71		
		ILLINOIS	FED. AID PROJECT	



ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION - $\frac{3}{4}$ "	SQ. YD.	1,074.0
HMA SURFACE REMOVAL - $1\frac{1}{2}$ "	SQ. YD.	272.0
HMA SURFACE REMOVAL - BUTT JOINT	SQ. YD.	293.0



BILL OF MATERIALS

ITEM	UNIT	TOTAL
HMA SURFACE COURSE, IL 9.5, MIX "D", N50	TON	25.0
PROTECTIVE COAT	SQ. YD.	1,074.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ. YD.	1,044.0
BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY - 2½"	SQ. YD.	802.0
BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY - 4"	SQ. YD.	272.0
DIAMOND GRINDING (BRIDGE SECTION)	SQ. YD.	955.0

USER NAME = Jeff.Sherer	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 1/15/2025	DATE = 082323	REVISED -

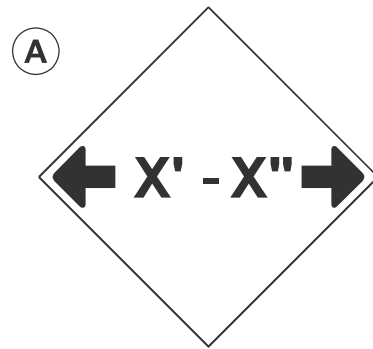
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF WEARING SURFACE
S.N. 092-0196

SCALE: 1"=20'	SHEET 11	OF 11	SHEETS	STA. + .	TO STA. + .
---------------	----------	-------	--------	----------	-------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	40
*FAP 709, FAP 840		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

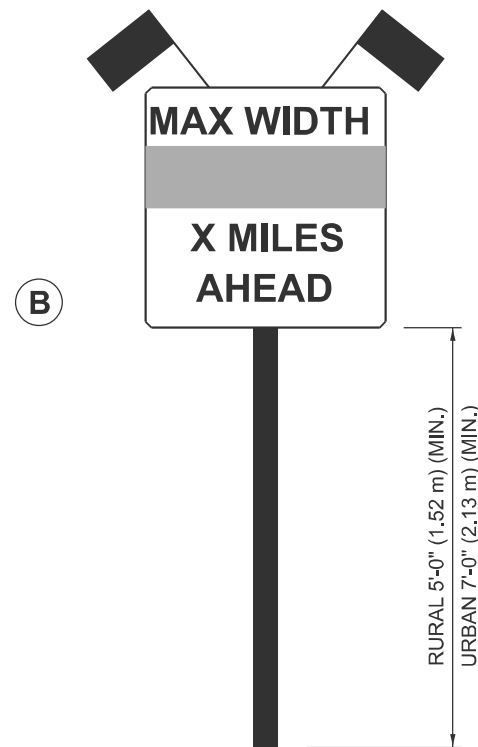
MODEL: WEARING SURFACE (Sheet)
FILE NAME: cwr:\dot-pow-bentley.com\PIWDOT\Documents\DOT Offices\District 5\ORD Projects\DS70G71\ICADData\Bridges\DS70G71-J092-0198a-Workfile.dgn



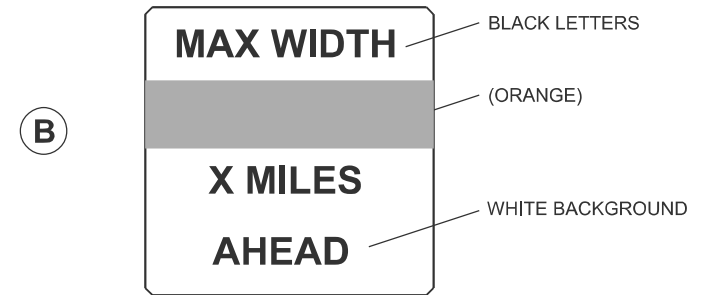
W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN
IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(O)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

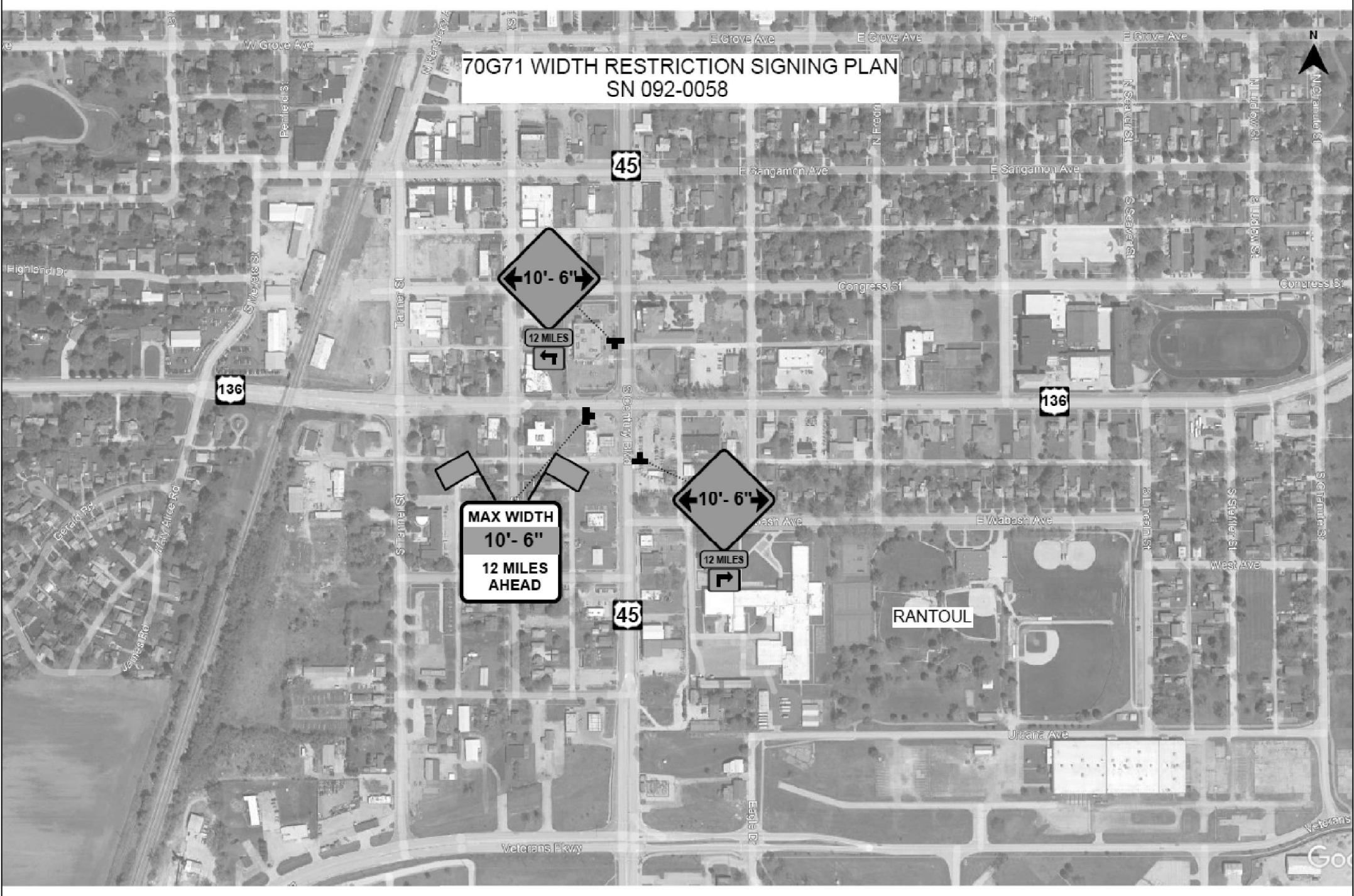
GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES
(millimeters) unless otherwise shown.

FILE NAME: C:\Ben					STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING				DISTRICT 5 DETAIL NO. X7200201				
	USER NAME = Eric.Thomas		DESIGNED -							REVISED - 05-08/		F.A.P. RTE. *	SECTION (121)BR-1,(114)BR-1	
	PLOT SCALE = SCSALES		DRAWN -			REVISED - 10-08 KJT								
	PLOT DATE = 12/7/2022		CHECKED -			REVISED - 07-09 KJT		*FAP 709, FAP 840 CONTRACT NO. 70G71						
	DATE -		REVISED - 03-11 KJT			ILLINOIS FED. AID PROJECT								
								SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.		

70G71 WIDTH RESTRICTION SIGNING PLAN
SN 092-0058



MODEL: WIDTH SIGN 1 [Sheet]
FILE NAME: c:\p\work\widthrestsigning\70G71-SN-0058WidthRestrSigning.dgn

USER NAME = Jeff.Sherer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/10/2025	DATE -	REVISED -

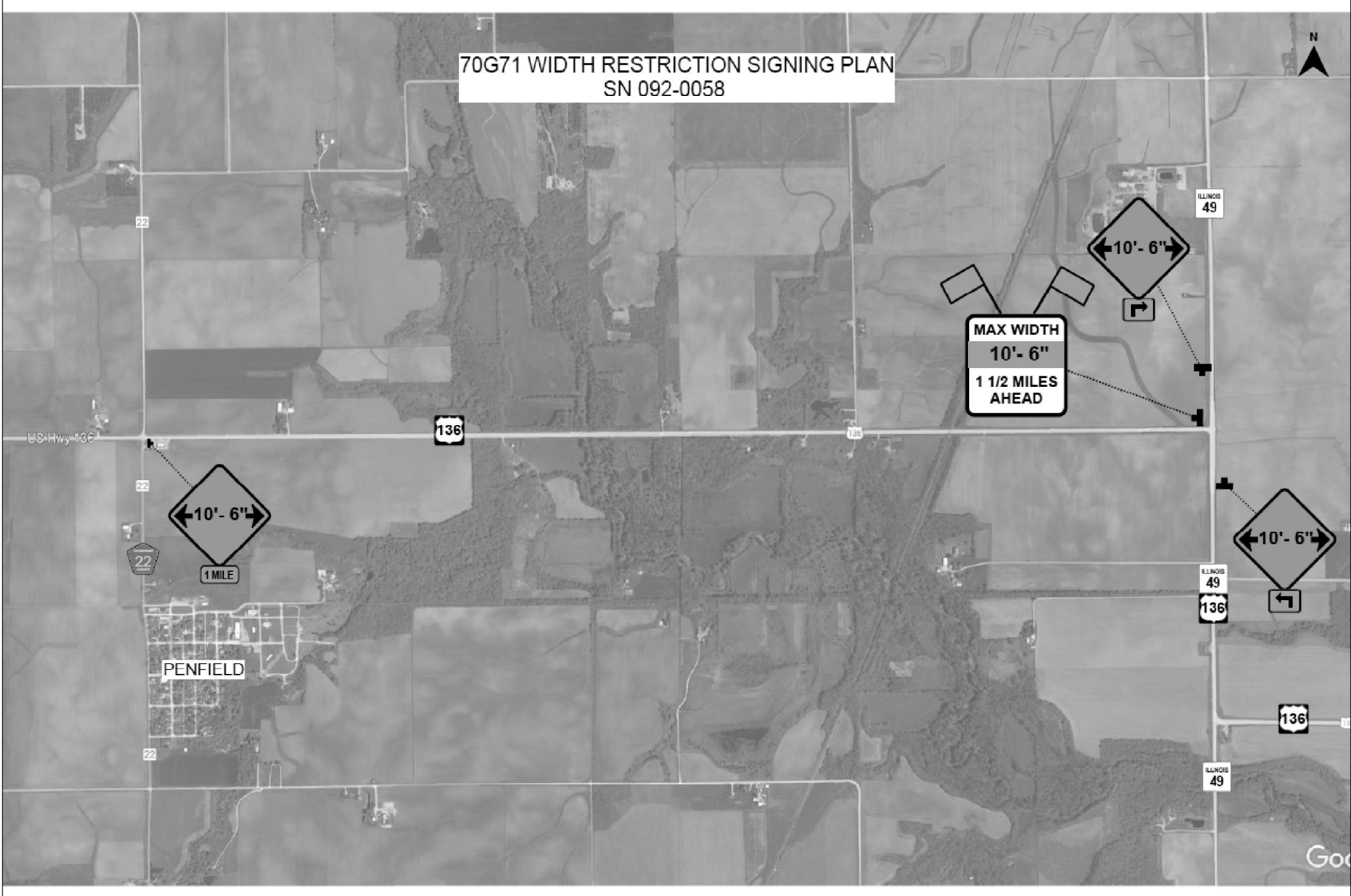
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGN PLACEMENT
S.N. 092-0058

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	42
*FAP 709, FAP 840		CONTRACT NO. 70G71		
		ILLINOIS	FED. AID PROJECT	

70G71 WIDTH RESTRICTION SIGNING PLAN
SN 092-0058



MODEL: WIDTH SIGN 2 [Sheet]
FILE NAME: c:\p\work\width\signing\70G71-SN-0058\WidthRestSigning.dgn

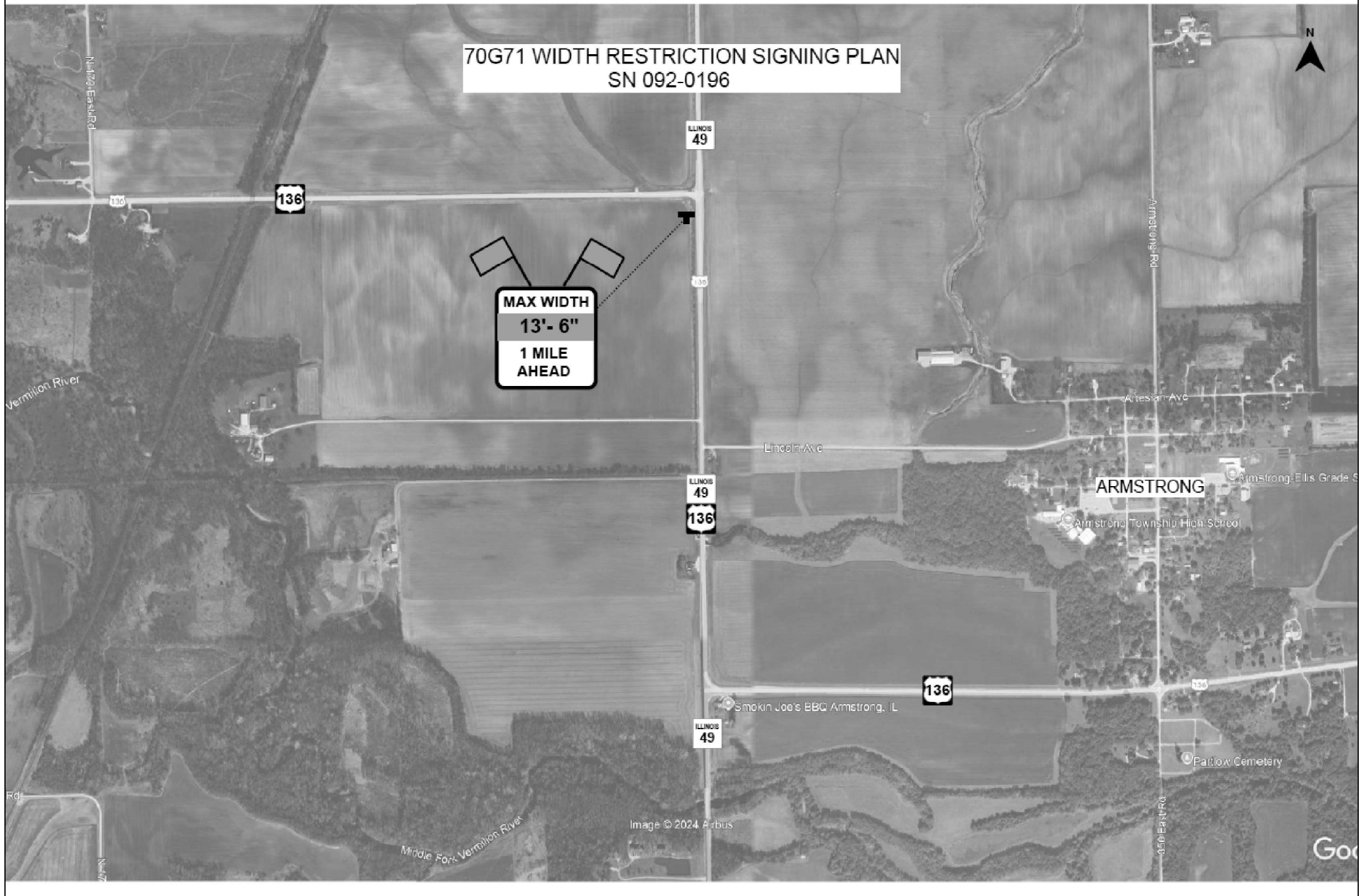
USER NAME = Jeff.Sherer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/14/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGN PLACEMENT S.N. 092-0058			
SCALE: NONE	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	43
	*FAP 709, FAP 840			CONTRACT NO. 70G71
		ILLINOIS	FED. AID PROJECT	

70G71 WIDTH RESTRICTION SIGNING PLAN
SN 092-0196



MODEL: Width1 [Sheet]
FILE NAME: c:\paw_work\widthrestsigning\md0872429\ID570G71-shr-0196\WidthRestrSigning.dgn

USER NAME	= Jeff.Sherer	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 1/10/2025	DATE	-	REVISED	-

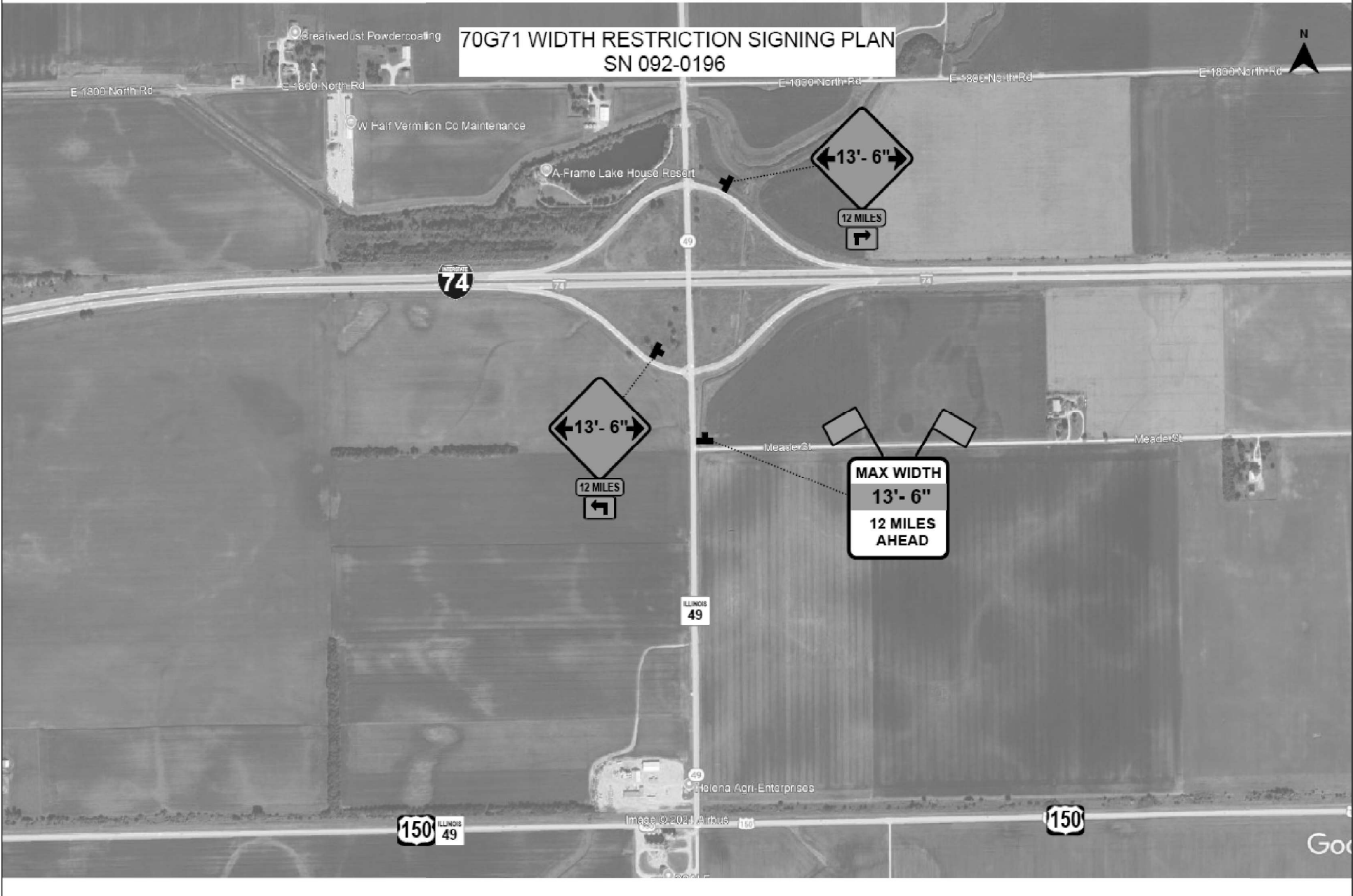
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGN PLACEMENT
S.N. 092-0196

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1,(114)BR-1	VERMILION	46	44
*FAP (709), FAP (840)		CONTRACT NO. 70G71		
ILLINOIS FED. AID PROJECT				

70G71 WIDTH RESTRICTION SIGNING PLAN
SN 092-0196



MODEL: Width2 (Sheet)
FILE NAME: c:\p\work\widthrestsigning\md0872425D570G71-shr-0196\WidthRestrSigning.dgn

USER NAME	= Jeff.Sherer	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 1/14/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGN PLACEMENT
S.N. 092-0196

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1, (114)BR-1	VERMILION	46	45
*FAP (709), FAP (840)		CONTRACT NO. 70G71		
ILLINOIS		FED. AID PROJECT		

MODEL: Width3 (Sheet)
FILE NAME: c:\paw\work\paw\tdolsher\paw\0872425D570G71-shr-0196\WidthRestrSigning.dgn



USER NAME = Jeff.Sherer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/14/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGN PLACEMENT S.N. 092-0196			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(121)BR-1, (114)BR-1	VERMILION	46	46
*FAP (709), FAP (840)		CONTRACT NO. 70G71		
		ILLINOIS	FED. AID PROJECT	