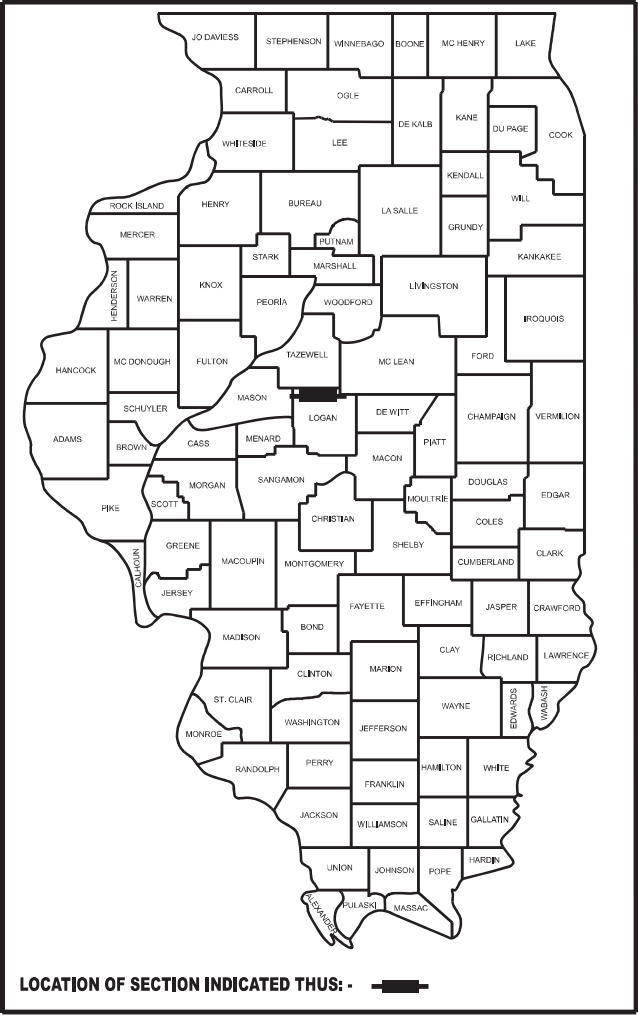


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	(54-10HB-2)BDR,BP,BRR,BJR	LOGAN	24	1
		ILLINOIS	CONTRACT NO. 72E59	

D-96-025-26



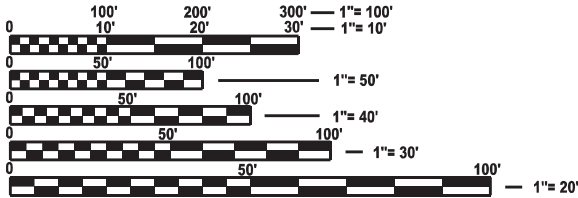
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

FAI ROUTE 155 (I-155)
SECTION (54-10HB-2)BDR,BP,BRR,BJR
PROJECT BR-DI3M(509)
BRIDGE DECK OVERLAY
LOGAN COUNTY
C-96-057-26



PROJECT LOCATION:
SN 054-0075
TR 33 OVER I-155
AT THE HARTSBURG INT.



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: BRANDON DUDLEY - (217) 785-9290
PROJECT MANAGER

CONTRACT NO. 72E59

GROSS LENGTH = 434 FT. = 0.08 MILE
NET LENGTH = 434 FT. = 0.08 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 23, 2026
Teresa C. Price
REGIONAL ENGINEER
August 14, 2026
See E. A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
August 14, 2026
Grady
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1COVER SHEET
- 2INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES
- 3-6SUMMARY OF QUANTITIES
- 7TYPICAL SECTIONS
- 8ROADWAY & DRAINAGE PLAN
- 9PAVEMENT MARKING DETAIL
- 10ROAD CLOSURE SIGNING
- 11-24BRIDGE PLANS, SN 054-0075

HIGHWAY STANDARDS

- 000001-09
- 001001-02
- 001006
- 542401-04
- 606301-04
- 610001-09
- 701001-02
- 701006-05
- 701101-05
- 701106-02
- 701400-12
- 701401-13
- 701402-12
- 701411-09
- 701901-11
- 704001-08
- 780001-05
- 782001-01
- 782006-01
- BLR 21-9

HMA MIX TABLE	
MIXTURE USE	HMA SURF. CSE
PG	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50
MIXTURE COMPOSITION	IL-9.5
FRICTION AGGREGATE	MIX "C"
MIXTURE WEIGHT	112 LB/SY*IN
QUALITY MANAGEMENT	QC/QA
SUBLOT SIZE	N/A
MTD REQUIRED	NO

GENERAL NOTES:

THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

NOTE: NUCLEAR GAUGE WILL BE USED FOR DENSITY VERIFICATION BY THE ENGINEER ON QC/QA ITEMS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED

June 2,

20

26



ENGINEER OF OPERATIONS

EXAMINED

June 1,

20

26



ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED

June 22,

20

26



ENGINEER OF PROGRAM DEVELOPMENT

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		CHECKED -	REVISED -					CONTRACT NO. 72E59				
	PLOT DATE = 7/6/2026	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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				6-01085-0000
				SN 054-0075
				90% FED. BFP
				10% STATE
				BRIDGE
				0047
				RURAL
25000200	SEEDING, CLASS 2	ACRE	0.1	0.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	9
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.2	0.2
25100115	MULCH, METHOD 2	ACRE	0.1	0.1
28100805	STONE DUMPED RIPRAP, CLASS A3	TON	15	15
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	60	60
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1196	1196
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	117	117
44003100	MEDIAN REMOVAL	SQ FT	1200	1200
44004250	PAVED SHOULDER REMOVAL	SQ YD	48	48
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	15	15
50102400	CONCRETE REMOVAL	CU YD	27.3	27.3

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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6-01085-0000

SN 054-0075

90% FED. BFP

10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	
				0047	
				RURAL	
50157300	PROTECTIVE SHIELD	SQ YD	542	542	
50300225	CONCRETE STRUCTURES	CU YD	6.9	6.9	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	34.6	34.6	
50300260	BRIDGE DECK GROOVING	SQ YD	1407	1407	
50300300	PROTECTIVE COAT	SQ YD	1650	1650	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6290	6290	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	128	128	
53016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	52	52	
53101002	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1470	1470	
53101609	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	1466	1466	
54262712	METAL FLARED END SECTIONS 12"	EACH	4	4	
60100945	PIPE DRAINS 12"	FOOT	440	440	
60500060	REMOVING INLETS	EACH	4	4	
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	1200	1200	

REV - MS

USER NAME = brandon.dudley		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES									
		DRAWN -	REVISED -										
		CHECKED -	REVISED -										
		DATE -	REVISED -										
PLOT DATE = 6/22/2026													
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				ILLINOIS FED. AID PROJECT									

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				6-01085-0000
				SN 054-0075
				90% FED. BFP 10% STATE
				BRIDGE
				0047
				RURAL
61000050	CONCRETE THRUST BLOCKS	EACH	4	4
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	4	4
66201120	CONCRETE SHOULDER CURB	FOOT	48	48
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	270	270
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	600
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	600	600
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
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	17.6	17.6

* SPECIALTY ITEM

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6-01085-0000
SN 054-0075
90% FED. BFP
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	
				0047	RURAL
*	78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2000	2000
	78200020	CURB REFLECTORS	EACH	40	40
*	X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
	X5230172	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	4	4
*	X6010003	PIPE DRAIN REMOVAL	FOOT	216	216
	X6050205	FILLING EXISTING STORM SEWERS	CU YD	3.2	3.2
	X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
	Z0041895	POLYMER CONCRETE	CU FT	7	7
Ø	Z0076600	TRAINEES	HOURL	1000	1000
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	1000	1000
Ø					

* SPECIALTY ITEM
Ø 0042

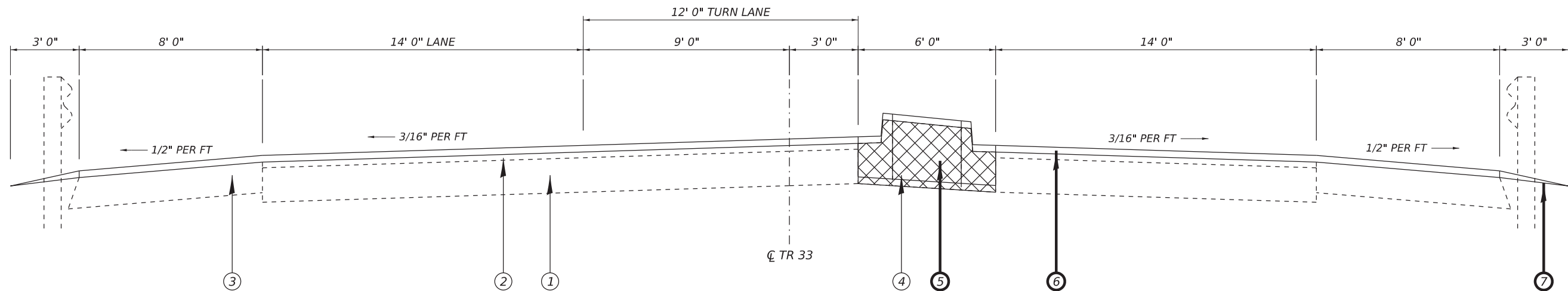
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DRAWN -	
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DATE -	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
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SCALE:	
SHEET 4 OF 4 SHEETS STA. TO STA.	

FBI RTE	SECTION	COUNTY	TOTAL SHEET NO.
155		LOGAN	24 6
		CONTRACT NO. 72E59	



STA 697+83.25 TO STA 698+83.25

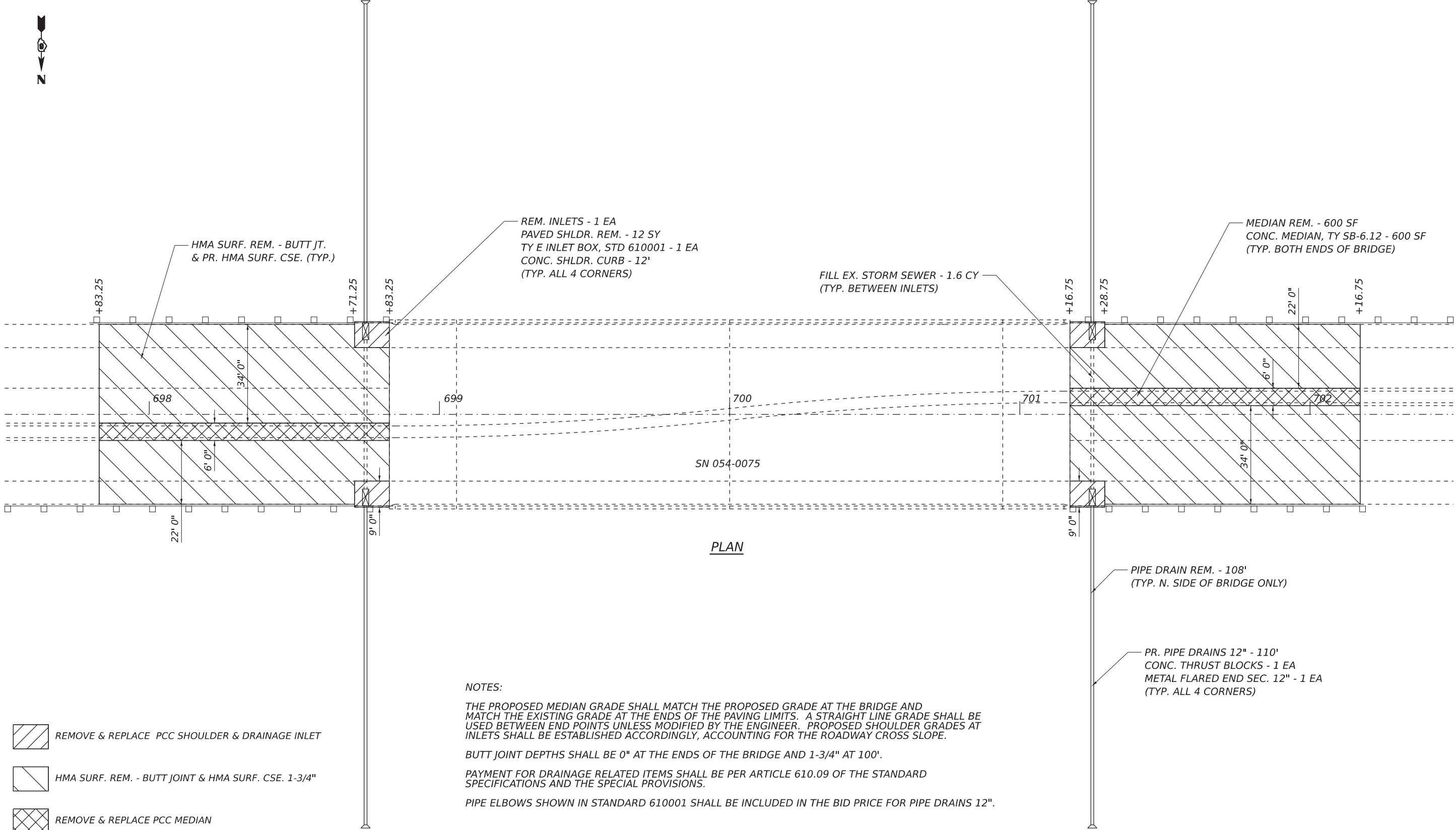
STA 701+16.75 TO STA 702+16.75
(MIRRORED ABOUT CL)

- ① EX. PCC BRIDGE APPR. PAVT, 9" & VAR.
- ② EX. HMA SURF. CSE, ± 1-1/2"
- ③ EX. HMA SHOULDERS, 8"
- ④ EX. CONC. MEDIAN (TBR)
- ⑤ PR. CONC. MEDIAN, TY SB-6.12
- ⑥ PR. HMA SURF. CSE, 1-3/4"
- ⑦ PR. AGG. WEDGE SHLDR.

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		DRAWN -	REVISED -					155		LOGAN	24	7
		CHECKED -	REVISED -					CONTRACT NO. 72E59				
	PLOT DATE = 6/22/2026	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

MODEL: roadway [Sheet]
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- REMOVE & REPLACE PCC SHOULDER & DRAINAGE INLET
- HMA SURF. REM. - BUTT JOINT & HMA SURF. CSE. 1-3/4"
- REMOVE & REPLACE PCC MEDIAN

NOTES:

THE PROPOSED MEDIAN GRADE SHALL MATCH THE PROPOSED GRADE AT THE BRIDGE AND MATCH THE EXISTING GRADE AT THE ENDS OF THE PAVING LIMITS. A STRAIGHT LINE GRADE SHALL BE USED BETWEEN END POINTS UNLESS MODIFIED BY THE ENGINEER. PROPOSED SHOULDER GRADES AT INLETS SHALL BE ESTABLISHED ACCORDINGLY, ACCOUNTING FOR THE ROADWAY CROSS SLOPE.

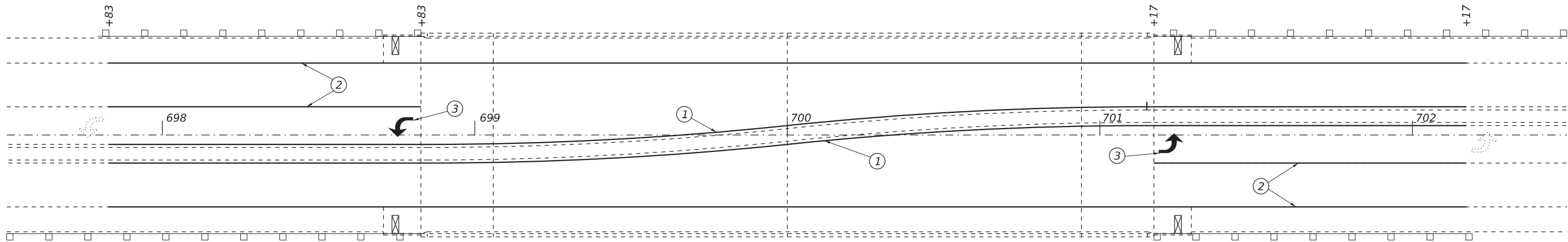
BUTT JOINT DEPTHS SHALL BE 0" AT THE ENDS OF THE BRIDGE AND 1-3/4" AT 100'.

PAYMENT FOR DRAINAGE RELATED ITEMS SHALL BE PER ARTICLE 610.09 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.

PIPE ELBOWS SHOWN IN STANDARD 610001 SHALL BE INCLUDED IN THE BID PRICE FOR PIPE DRAINS 12".

PLAN

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY & DRAINAGE PLAN				F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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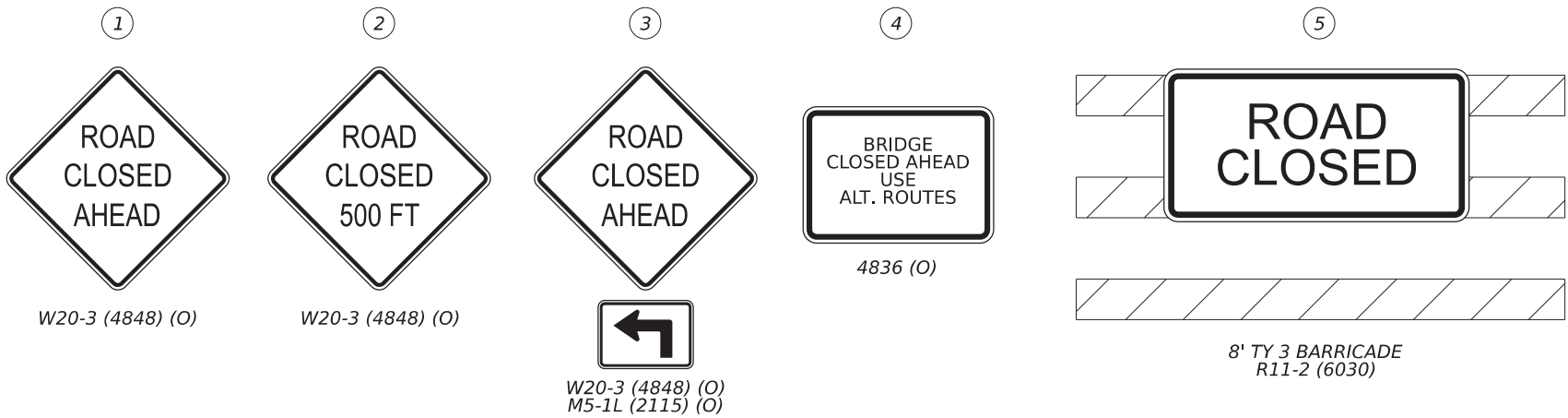
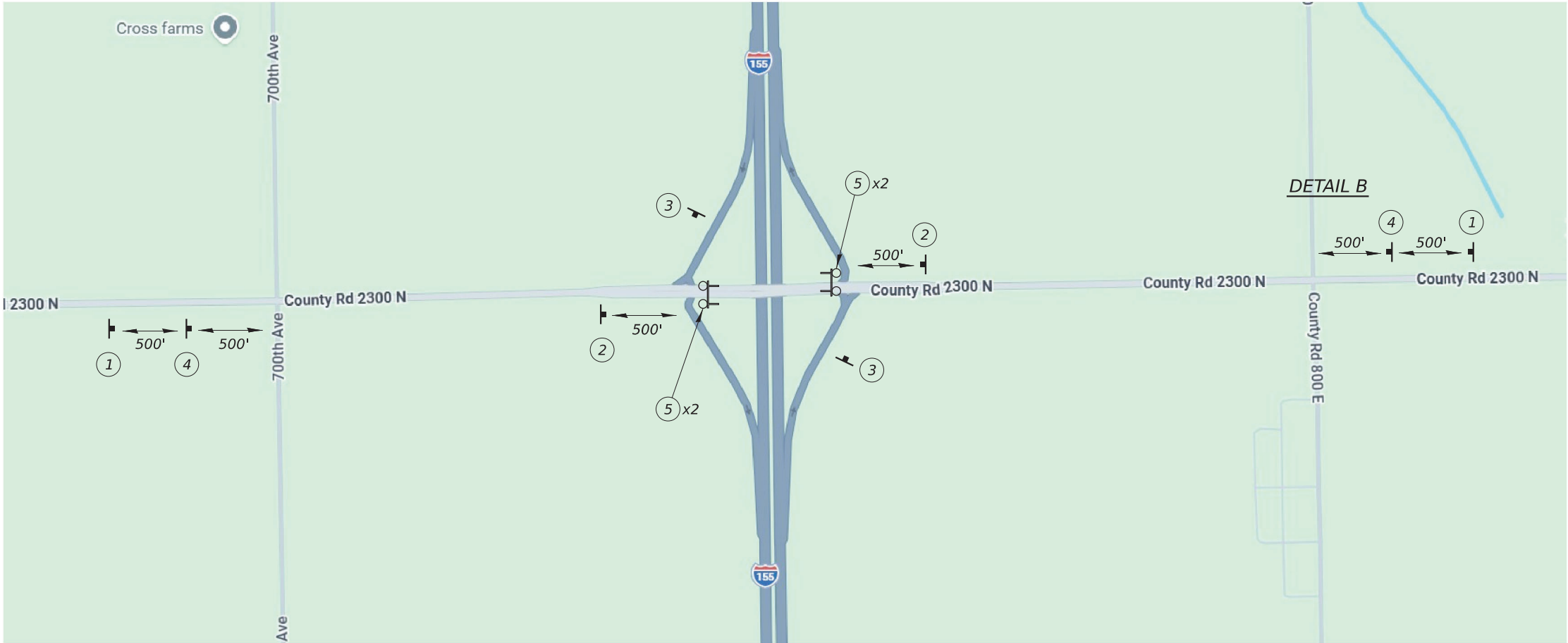


PLAN

- ① PAINT PAVEMENT MARKING - LINE 5" (YELLOW)
- ② PAINT PAVEMENT MARKING - LINE 5" (WHITE)
- ③ PAINT PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE DIRECTIONAL ARROWS)

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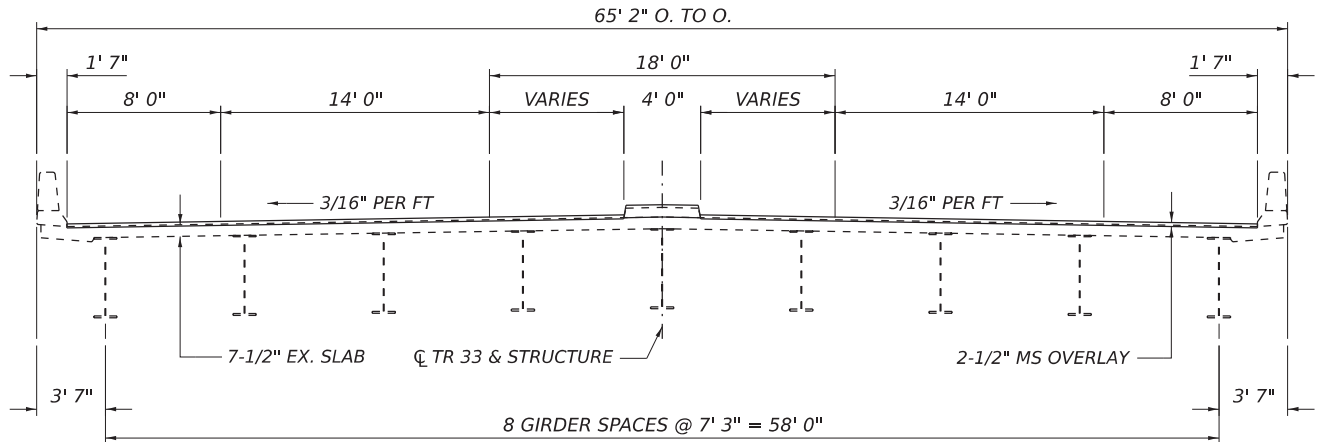
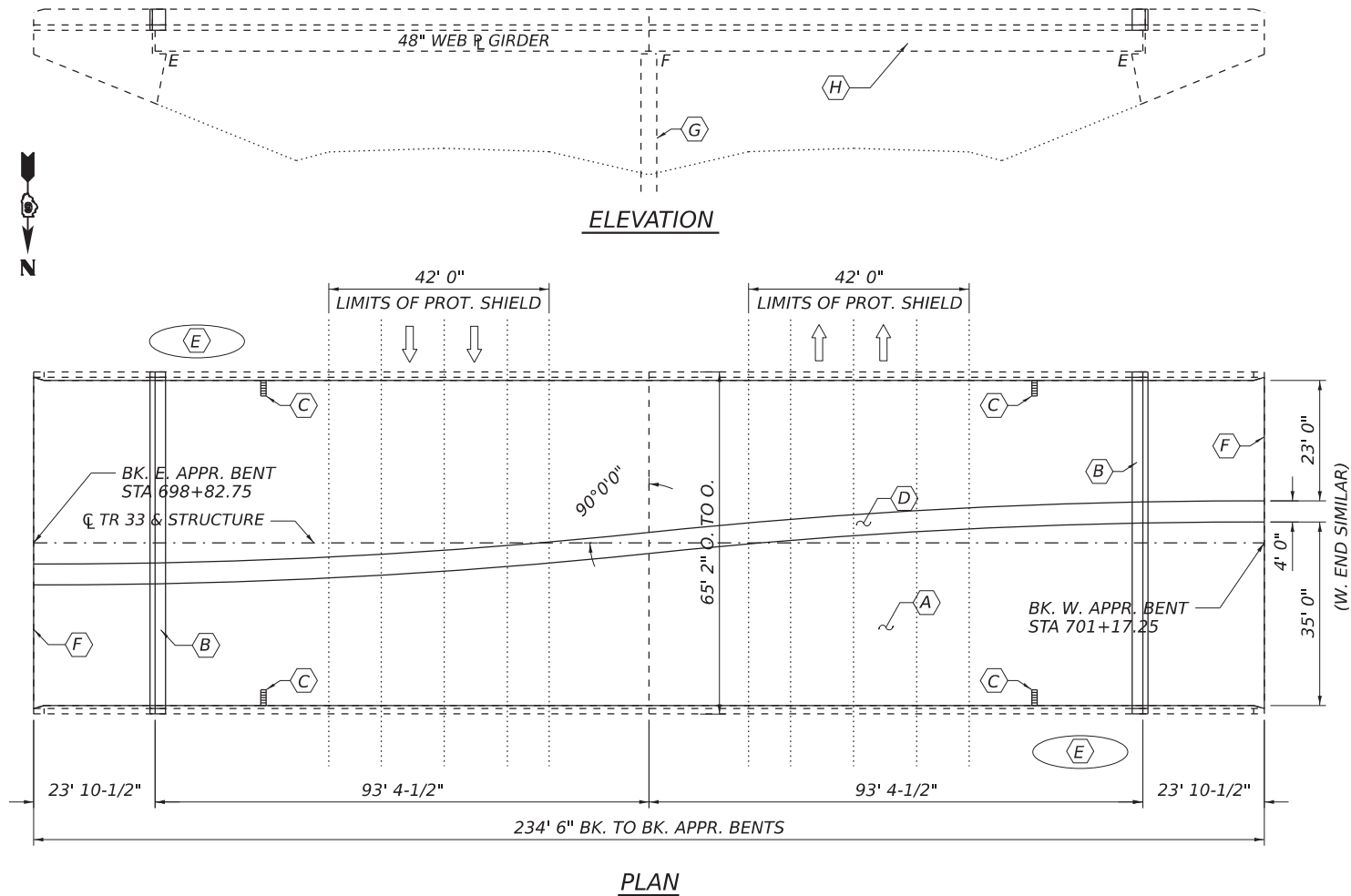


NOTE: ALL SIGNS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE BID PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD BLR21

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		DRAWN -	REVISED -						155		LOGAN	24	10
		CHECKED -	REVISED -						CONTRACT NO. 72E59				
	PLOT DATE = 6/22/2026	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

Construction to be completed under full closure.



CROSS SECTION



Mark Shaffer

Expires Nov. 30, 2026

STRUCTURE GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contactor 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 the 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 shall be replaced with an approved bar splicer or anchorage system at the contractor's expense.

Cleaning and painting of the existing and new structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning - SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Green, Munsell No. 7.5G 4/8.

Containment of cleaning residue is required to control nuisance dust. See special provisions.

SSPC QP1 Contractor Certification is required for this Contract.

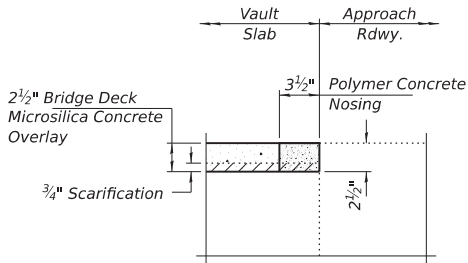
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

Synthetic fibers will not be required in the microsilica concrete overlay.

TOTAL BILL OF MATERIAL (054-0075)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	27.3
Concrete Structures	Cu. Yd.	6.9
Concrete Superstructure	Cu. Yd.	34.6
Reinforcement Bars, Epoxy Coated	Pound	6290
Preformed Joint Strip Seal	Foot	128
Protective Shield	Sq. Yd.	542
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	52
Drainage Scuppers To Be Adjusted	Each	4
Bridge Deck Scarification 3/4"	Sq. Yd.	1470
Bridge Deck Microsilica Concrete Overlay 2-1/2"	Sq. Yd.	1466
Bridge Deck Grooving	Sq. Yd.	1407
Protective Coat	Sq. Yd.	1650
Polymer Concrete	Cu. Ft.	7
Stone Dumped Riprap, Class A3	Ton	15
Containment And Disposal Of Non-Lead Paint Cleaning Residues No. 1	L Sum	1
Cleaning And Painting Steel Bridge No. 1	L Sum	1



POLYMER CONCRETE NOSING DETAIL

- (A) - Scarify 3/4" & place 2-1/2" microsilica overlay, FD patching as necessary.
- (B) - Remove & replace expansion joint.
- (C) - Adjust drainage scuppers.
- (D) - Remove & replace conc. median.
- (E) - Install riprap in eroded areas.
- (F) - Install polymer concrete nosing.
- (G) - Install crash wall extension.
- (H) - Blast and repaint superstructure.

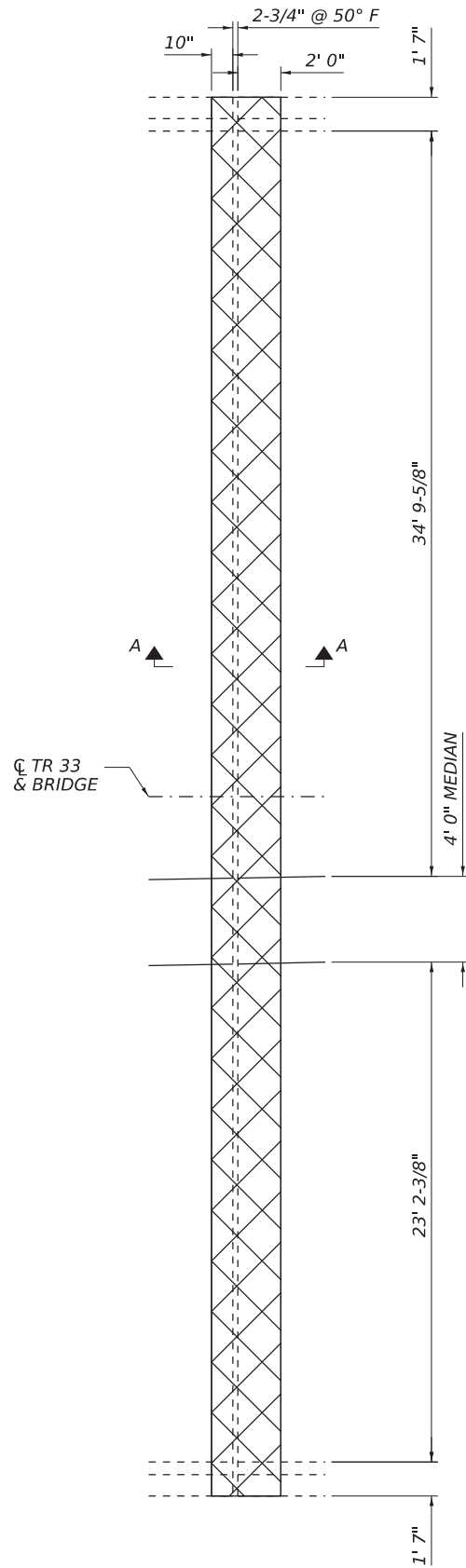
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE PLAN & ELEVATION
SN 054-0075

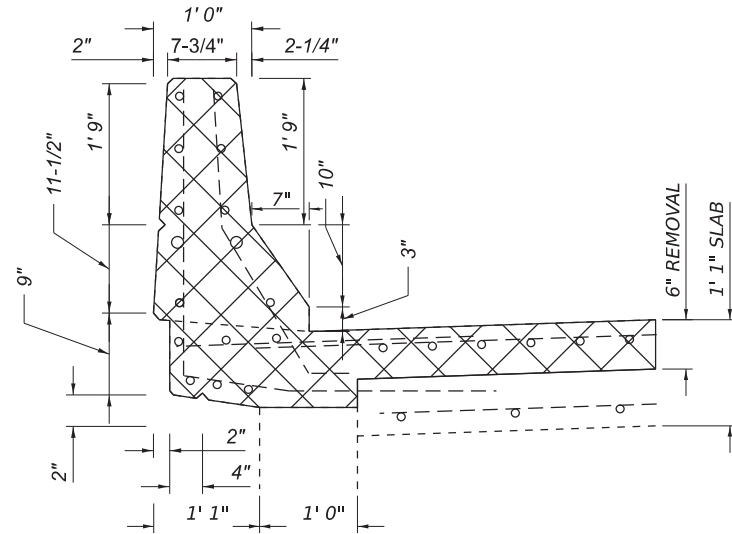
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***** (54-10HB-2)BDR,BP,BRR,BJR				
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155	*****	LOGAN	24	11
		CONTRACT NO. 72E59		
ILLINOIS		FED. AID PROJECT		

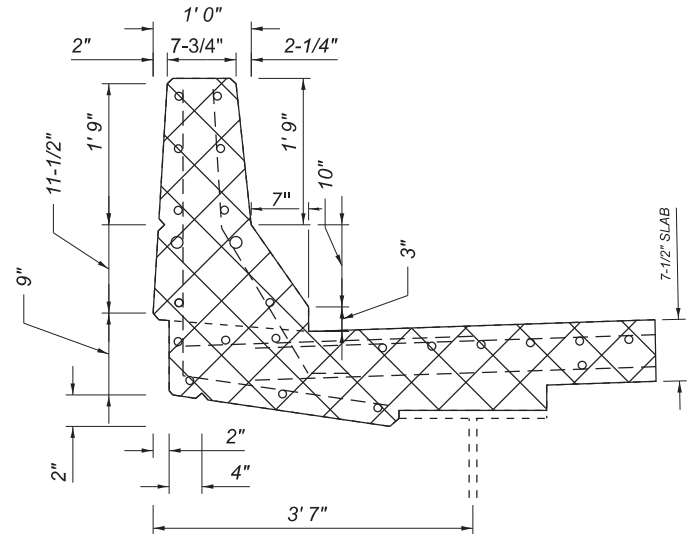
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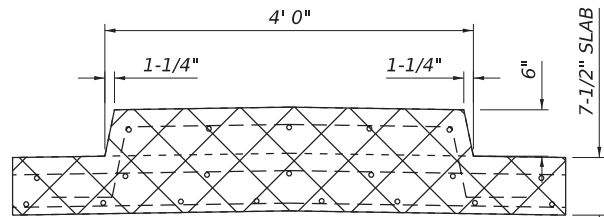
JOINT REMOVAL PLAN
(E. JT. SHOWN - W. JT. SIMILAR)



SECTION THRU APPROACH PARAPET



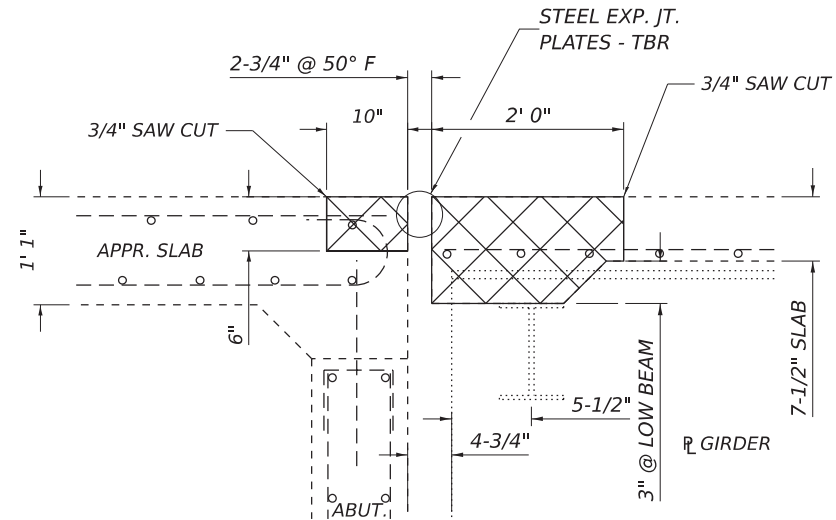
SECTION THRU BRIDGE PARAPET



SECTION THRU RAISED MEDIAN



CONCRETE REMOVAL



SECTION A-A

***** (54-10HB-2)BDR,BP,BRR,BJR

USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 6/22/2026	DATE	-	REVISED	-

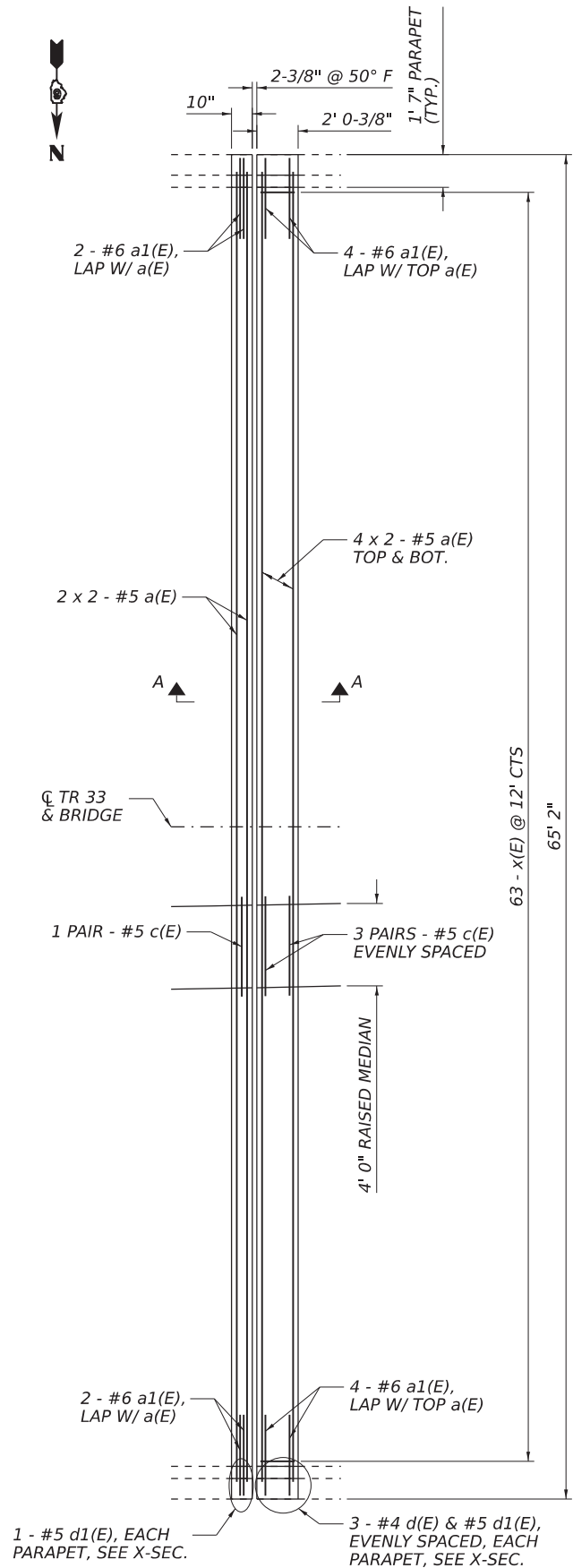
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL DETAIL
SN 054-0075

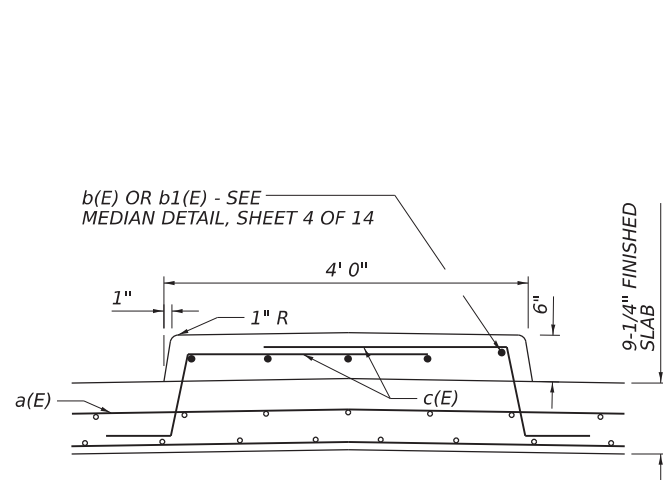
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72E59				
ILLINOIS FED. AID PROJECT				

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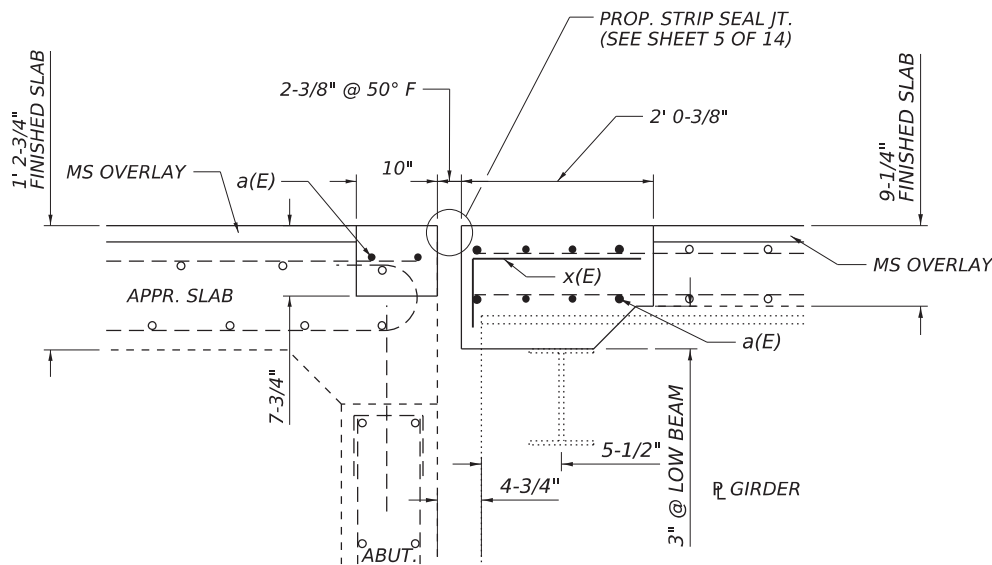
JOINT REMOVAL PLAN
(E. JT. SHOWN - W. JT. SIMILAR)



SECTION THRU RAISED MEDIAN

NOTE: RAISED MEDIAN AT JOINTS SHALL BE POURED MONOLITHICALLY WITH THE REST OF THE BRIDGE MEDIAN.

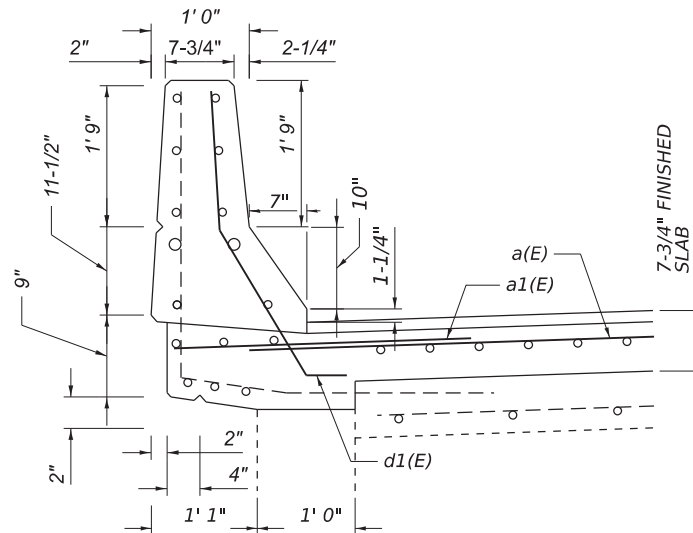
MIN LAP FOR #5 BARS = 2' 10"



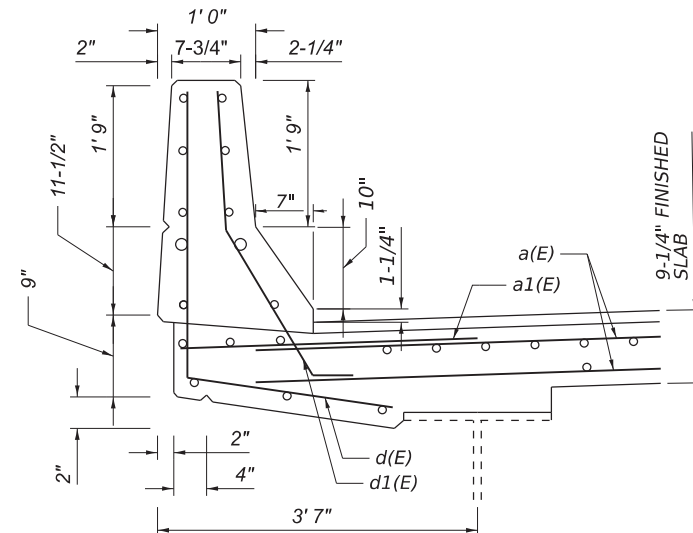
SECTION A-A

NOTE: DIMENSIONS BASED ON ROLLED RAIL JOINT (SEE SHEET 5 OF 14)

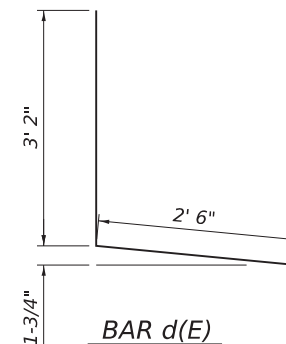
NOTES: RAISED MEDIAN CONCRETE QUANTITIES INCLUDED IN MEDIAN DETAILS, SHEET 4 OF 14.
BARS INDICATED THUS, 4 x 2 - #5 ETC, INDICATE 4 LINES OF BARS WITH 2 LENGTHS PER LINE.



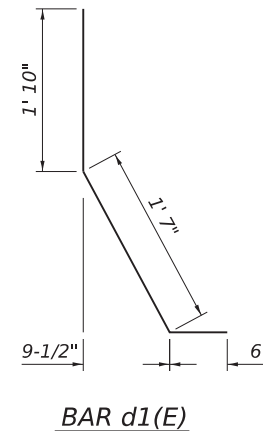
SECTION THRU APPROACH PARAPET



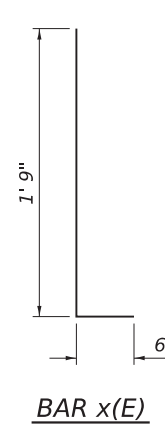
SECTION THRU BRIDGE PARAPET



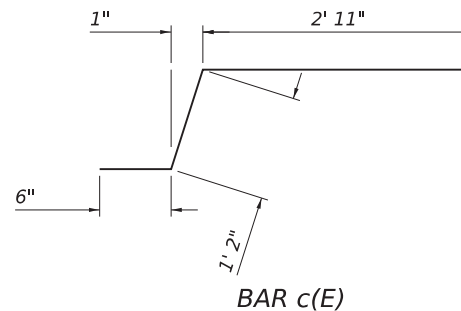
BAR d(E)



BAR d1(E)



BAR x(E)



BAR c(E)

**ABUTMENT JOINTS
BILL OF MATERIAL (2 JOINTS)**

Bar	No.	Size	Length	Shape
a(E)	40	#5	33'-0"	—
a1(E)	24	#6	6'-0"	—
d(E)	12	#4	5'-8"	L
d1(E)	16	#5	3'-11"	U
c(E)	16	#5	4'-7"	—
x(E)	126	#5	2'-3"	—
Concrete Removal			Cu. Yd.	10.5
Concrete Superstructure			Cu. Yd.	12.7
Reinforcement Bars, Epoxy Coated			Pound	2080

***** (54-10HB-2)BDR,BP,BRR,BJR

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 6/22/2026	DATE -	REVISED -

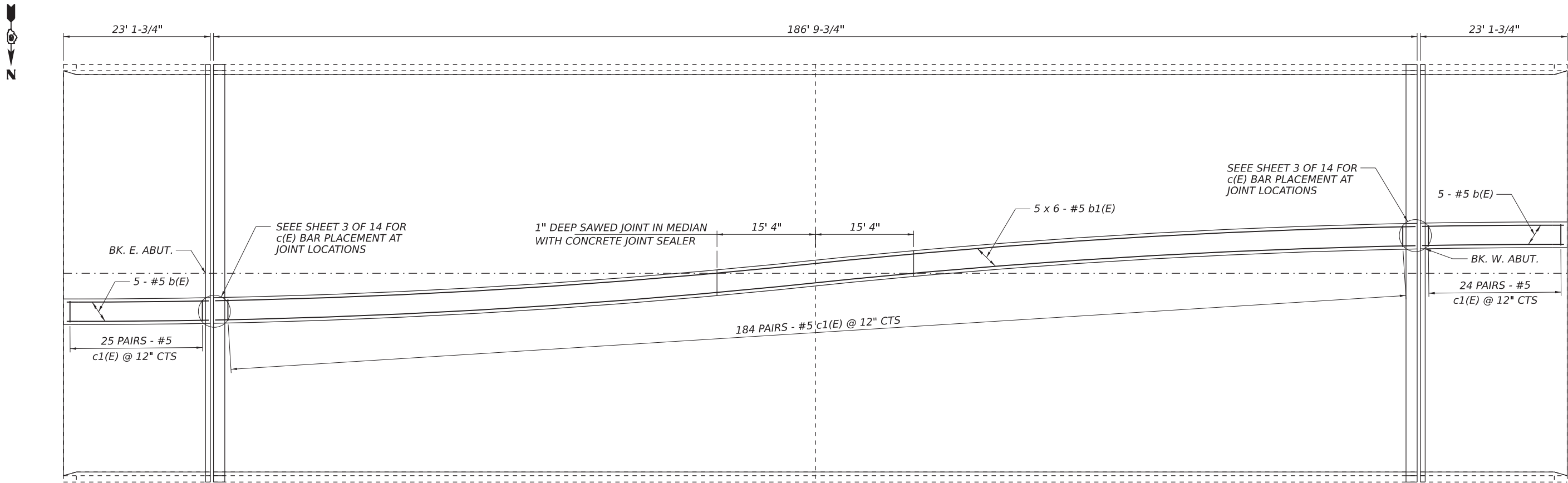
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT DETAILS
SN 054-0075**

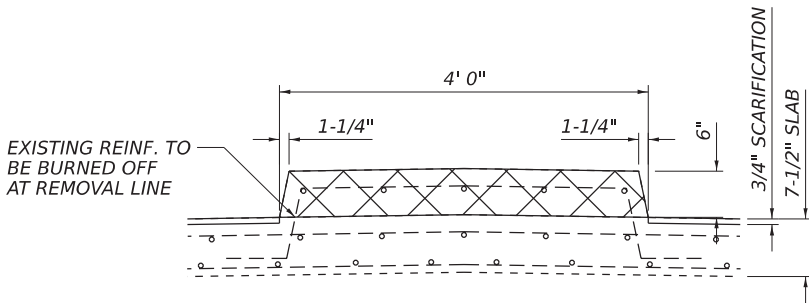
SCALE: SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	13
CONTRACT NO. 72E59				
ILLINOIS FED. AID PROJECT				

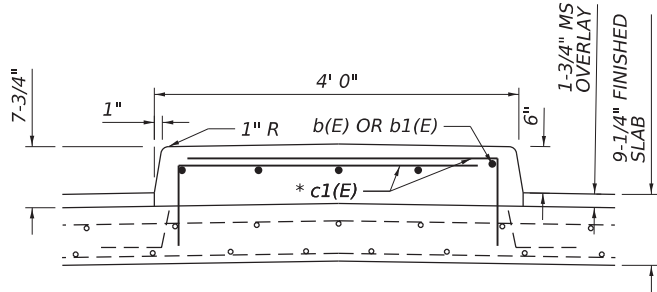
MODEL: bridge-3 (Sheet)
FILE NAME: c:\p\work\paw\tdudley\cm\1191571\72E59 plansheet.dgn



PLAN



REMOVAL SECTION THRU RAISED MEDIAN

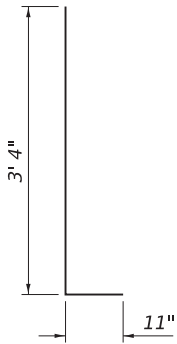


PROPOSED SECTION THRU RAISED MEDIAN

* EPOXY GROUT *c1(E)* BARS IN 6" HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS

MIN LAP FOR #5 BARS = 2' 10"

NOTE: PROPOSED HORIZONTAL LOCATION OF MEDIAN SHALL MATCH EXISTING, SEE SHEETS 10 & 11 OF 14 FOR DETAILS.
BARS INDICATED THUS, 5 x 6 - #5 ETC, INDICATE 5 LINES OF BARS WITH 6 LENGTHS PER LINE.



BAR *c1(E)*

MEDIAN REPLACEMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
<i>b(E)</i>	10	#5	22'-10"	—
<i>b1(E)</i>	30	#5	33'-6"	—
<i>c1(E)</i>	468	#5	3'-10"	┐
Concrete Removal			Cu. Yd.	16.8
Concrete Superstructure			Cu. Yd.	21.9
Reinforcement Bars, Epoxy Coated			Pound	3330

***** (54-10HB-2)BDR,BP,BRR,BJR

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 6/22/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEDIAN DETAILS
SN 054-0075

SCALE: SHEET 4 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	14
CONTRACT NO. 72E59				
ILLINOIS FED. AID PROJECT				

MODEL: bridge-4 (Sheet)
FILE NAME: c:\pwr_work\pwr\tdudley\cm1191574172E59 plansheet.dgn

EJ-SS

8-11-17

USER NAME	= brandon.dudley
PLOT DATE	= 6/22/2026

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

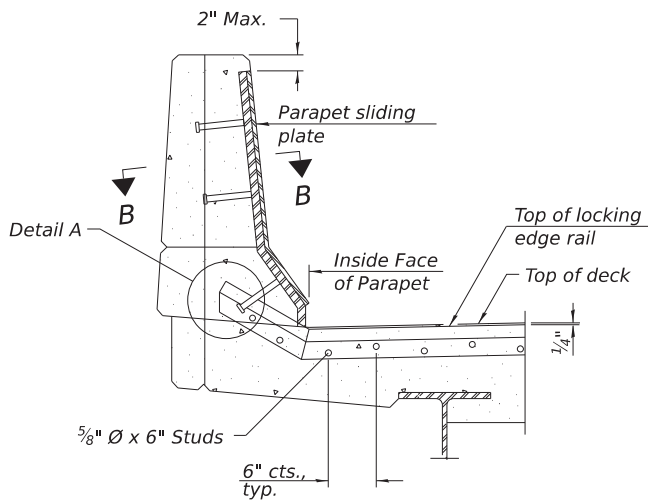
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 054-0075

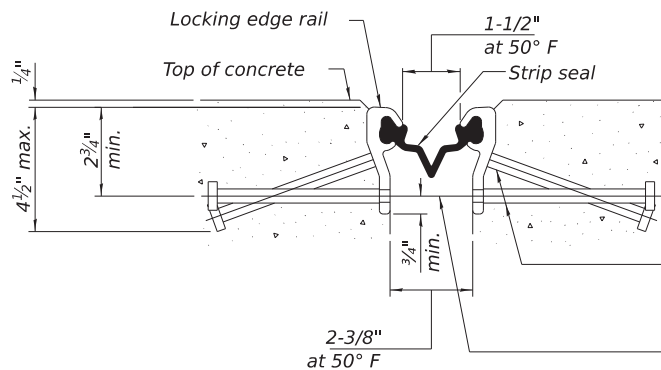
SCALE: SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	15
CONTRACT NO. 72E59				
ILLINOIS FED. AID PROJECT				



ELEVATION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



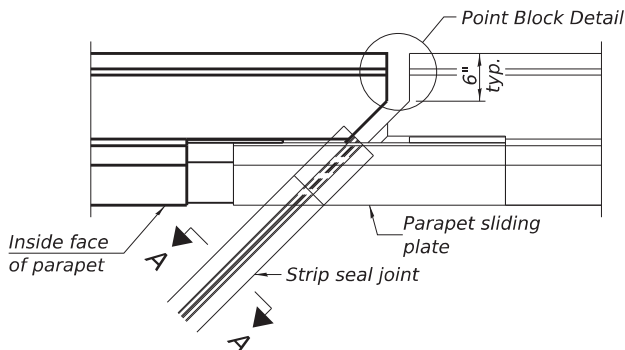
SHOWING ROLLED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

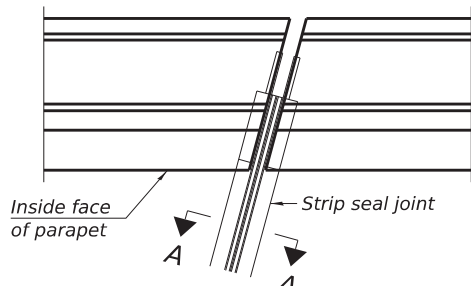
b" φ threaded rods in "D" φ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

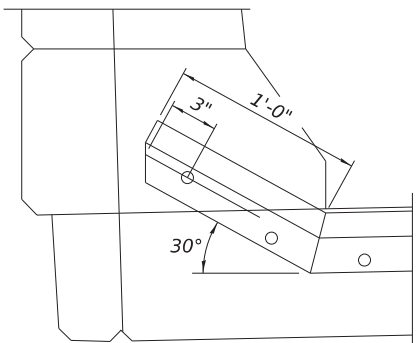


FOR SKEWS > 30°

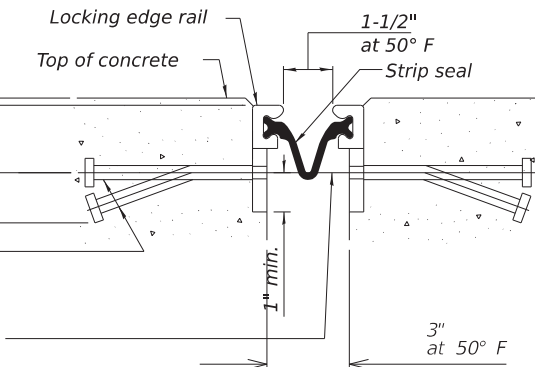


FOR SKEWS ≤ 30°

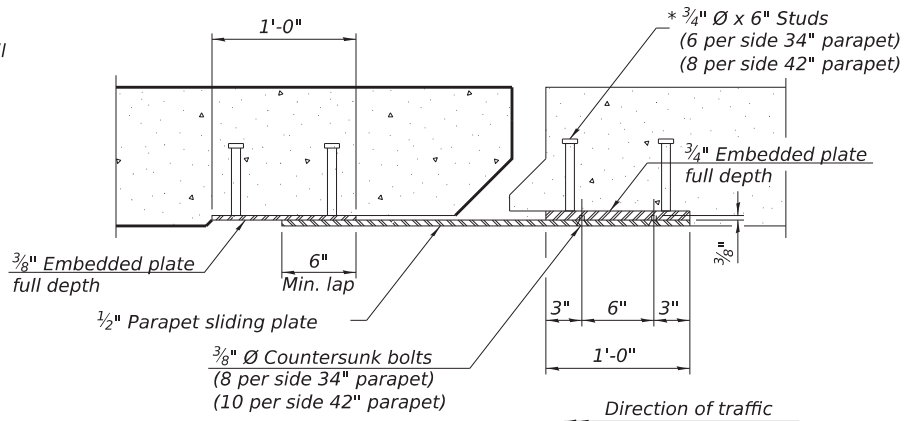
PLAN AT PARAPET



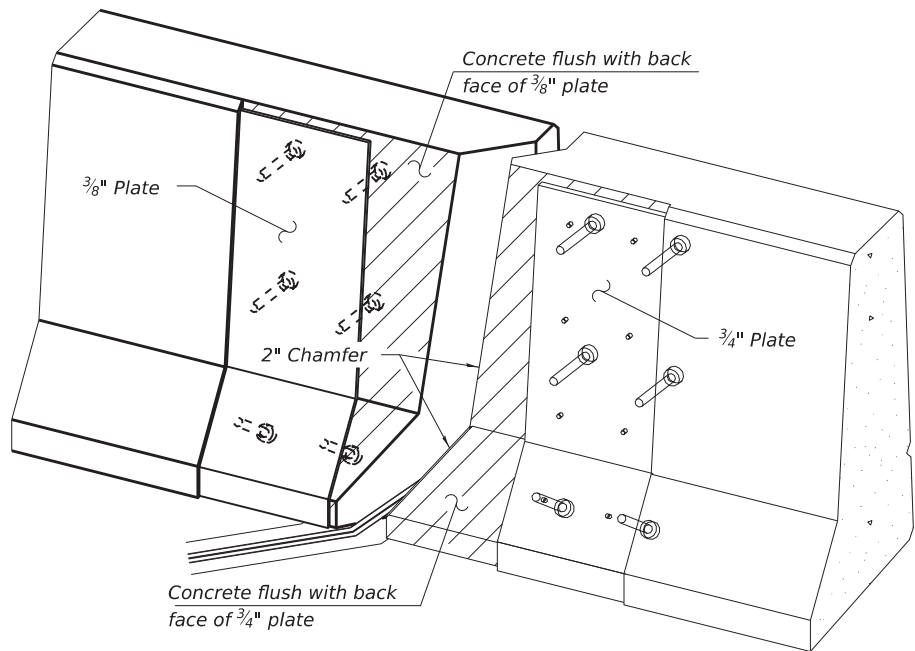
DETAIL A



SHOWING WELDED RAIL JOINT

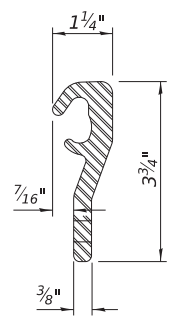


SECTION B-B

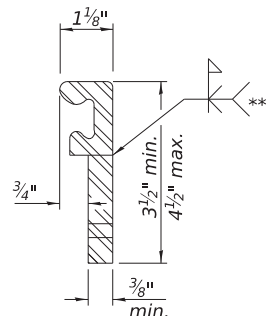


TRIMETRIC VIEW

(Showing embedded plates only)



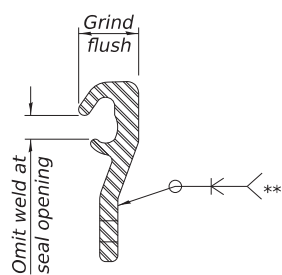
ROLLED
(EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

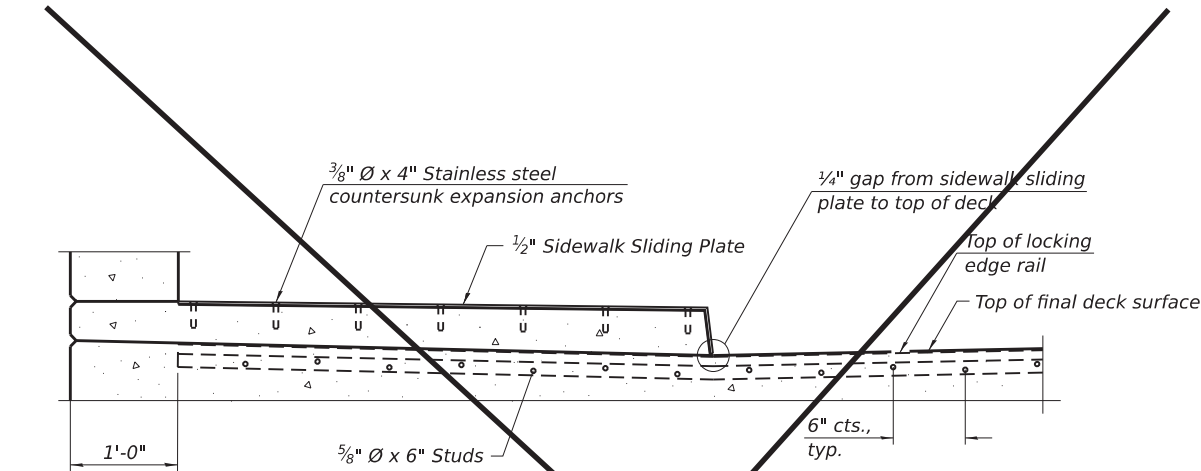
The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

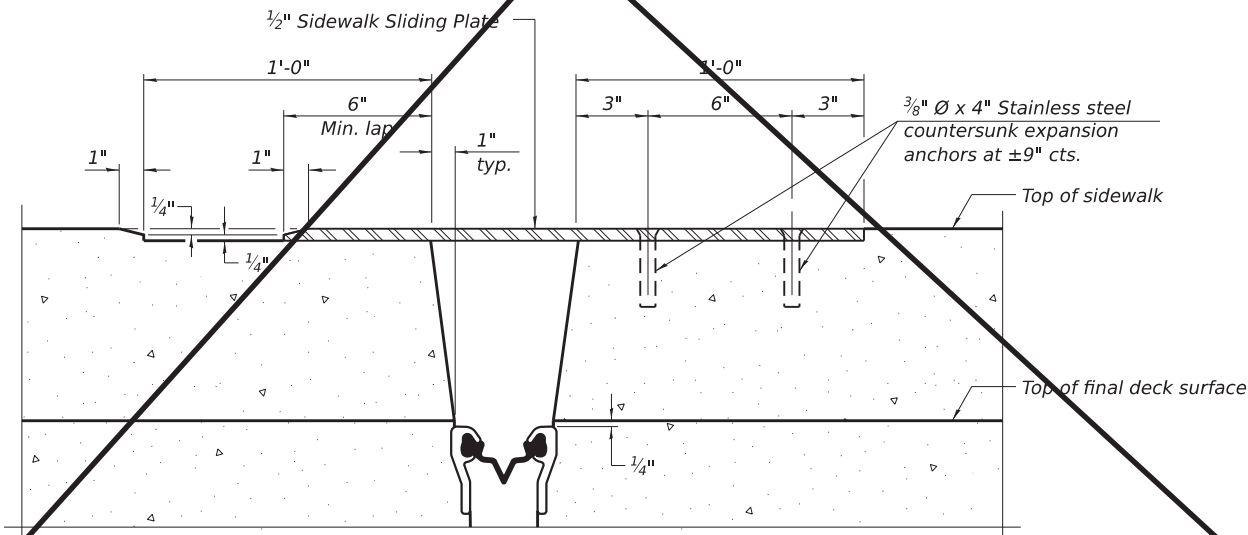
Item	Unit	Total
Preformed Joint Strip Seal	Foot	128

***** (54-10HB-2)BDR,BP,BRR,BJR

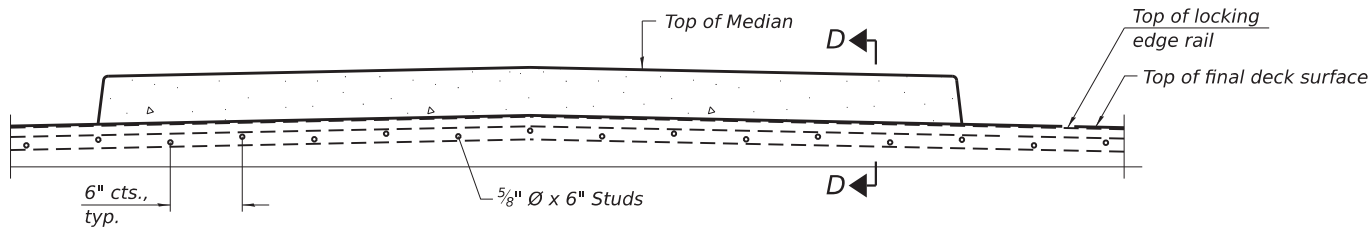
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FILE NAME: c:\p\work\p\work\dudley\cm\119157172E59 plansheet.dgn



SECTION AT RAISED SIDEWALK

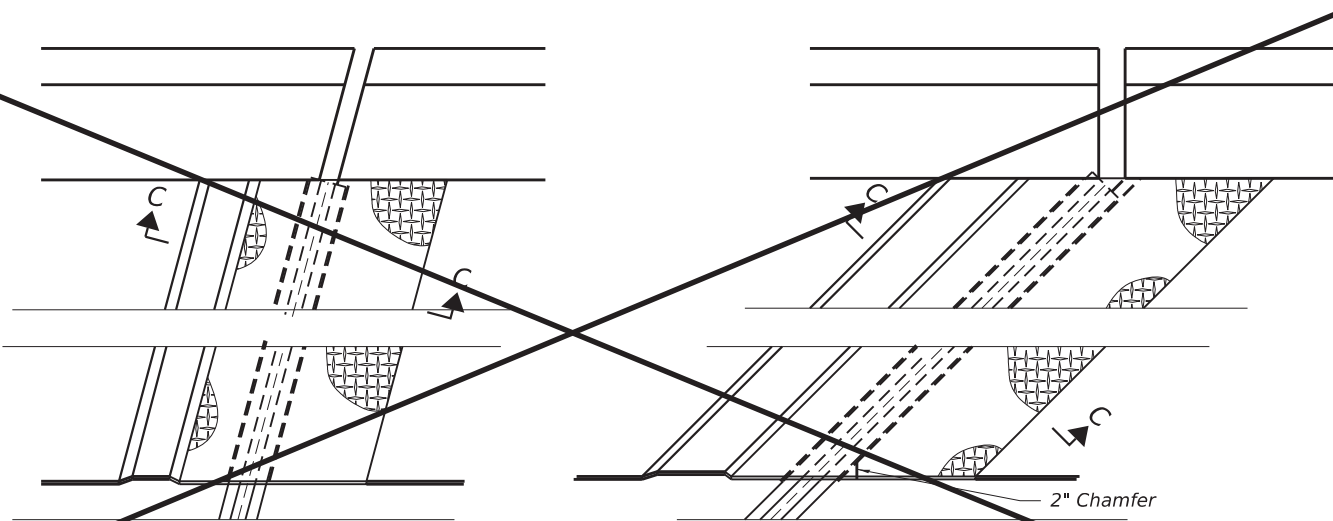


SECTION C-C

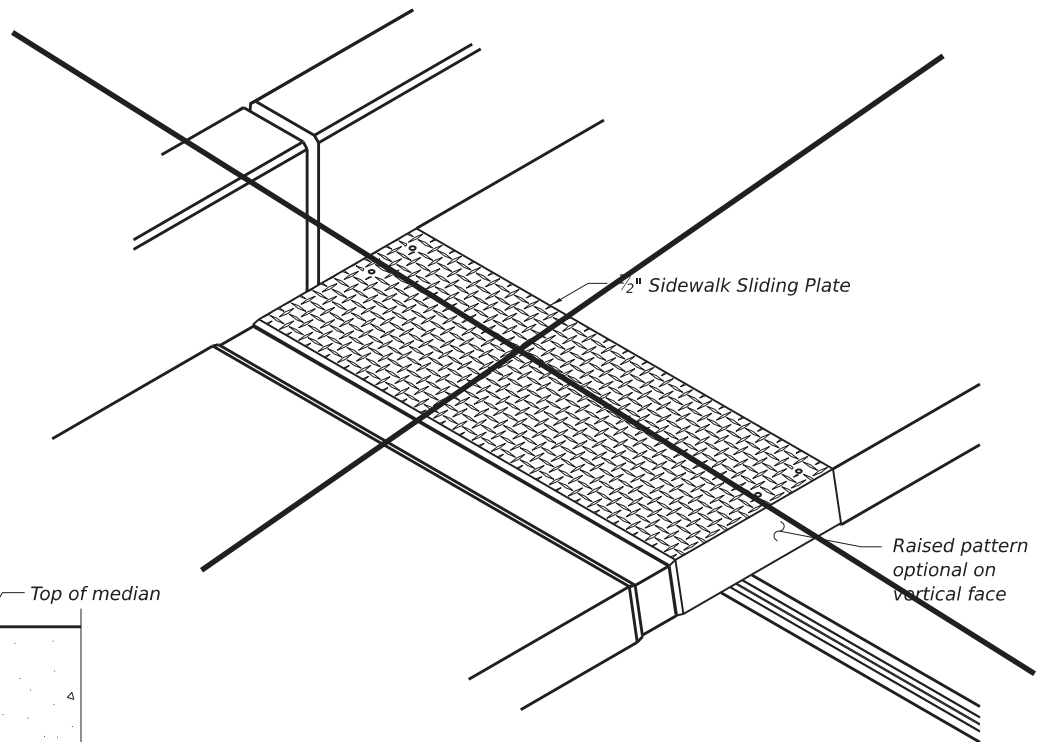


SECTION AT MEDIAN

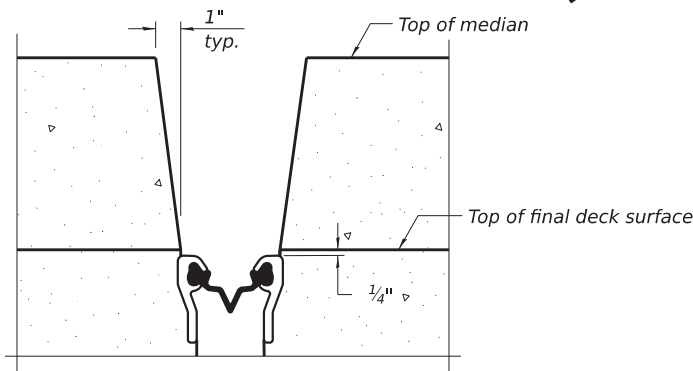
For skews > 30°, chamfer acute corners 2" similar to sidewalk.



PLAN AT RAISED SIDEWALK



TRIMETRIC VIEW



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

EJ-SS-S

4-4-2025

(Sheet 2 of 3)

***** (54-10HB-2)BDR,BP,BRR,BJR

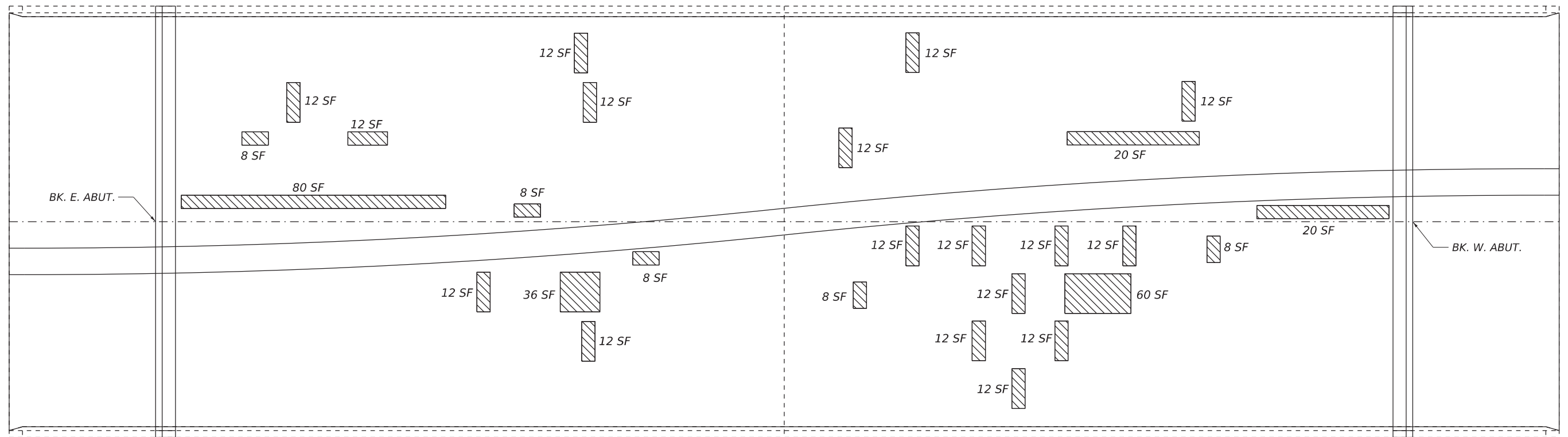
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DRAWN	-	REVISION	-	REVISION	-
CHECKED	-	REVISION	-	REVISION	-
DATE	-	REVISION	-	REVISION	-
PLOT DATE	= 6/22/2026				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 054-0075

SCALE: SHEET 6 OF 14 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	16
CONTRACT NO. 72E59				
ILLINOIS FED. AID PROJECT				



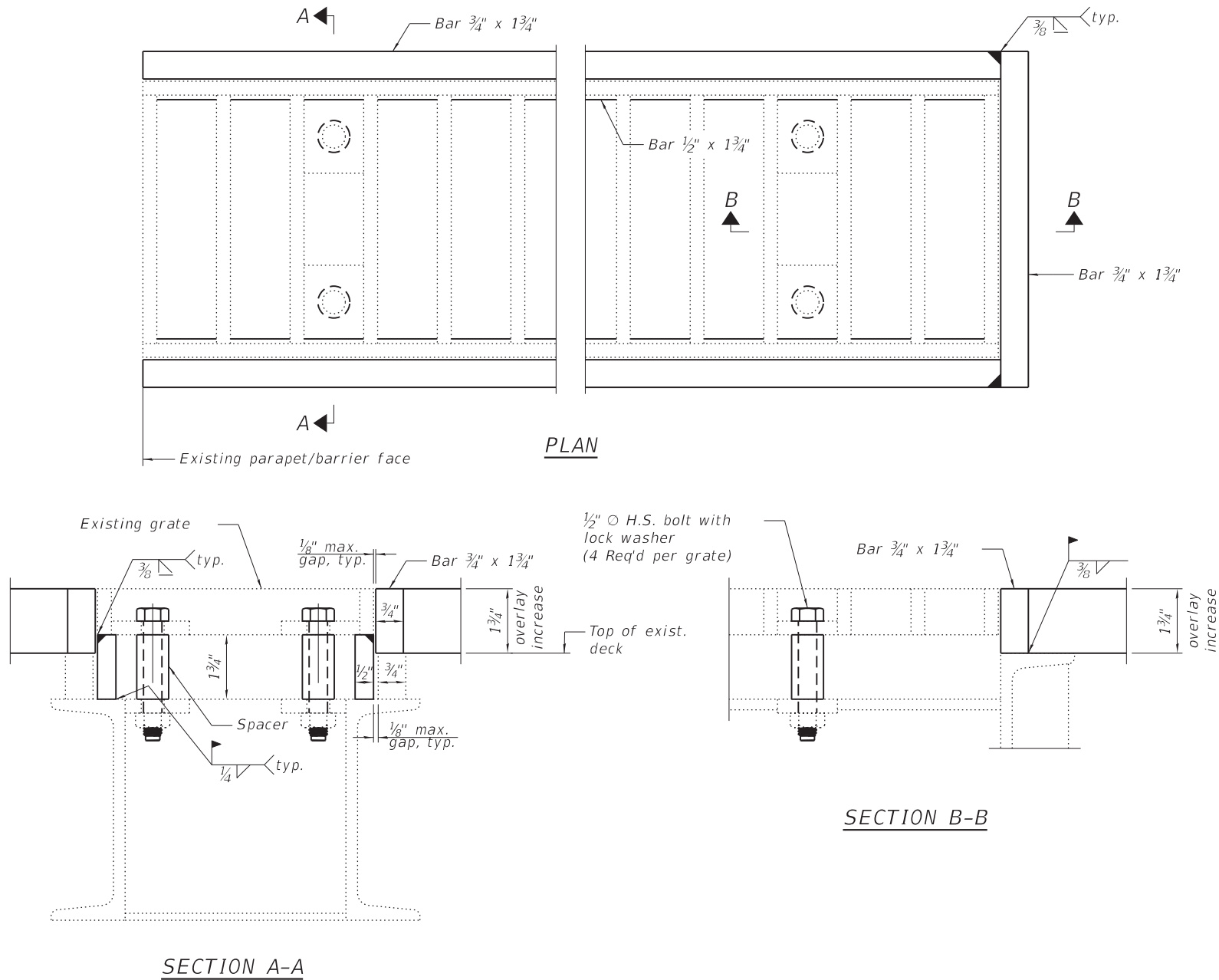
Deck Slab Repair (Full Depth, Type II)

The engineer shall show actual locations and sizes of deck repairs on as-built plans.

ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	52

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	17
		CONTRACT NO. 72E59		
		ILLINOIS	FED. AID PROJECT	

MODEL: bridge-6 [Sheet]
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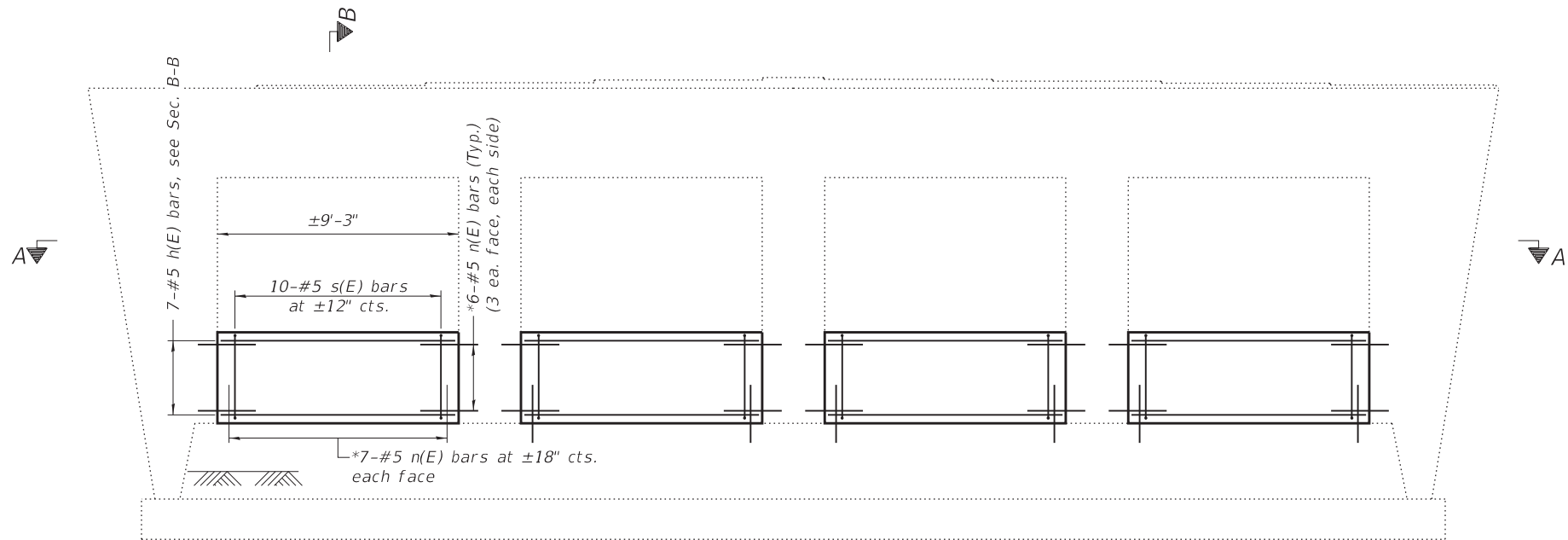
- Notes:
- Existing drainage scupper grates shall be adjusted so that the top of the existing grate is flush with the top of the bridge deck overlay.
 - Proposed structural steel for adjusting the scupper grates shall conform to AASHTO Classification M-270 Gr. 36. All proposed components adjusting the scupper grates shall be hot dipped galvanized.
 - Bolts shall be 1/2" O ASTM F3125 Grade A325 Type 1, mechanically galvanized. Spacer may be fabricated from round steel pipe.
 - The Contractor shall ensure that no damage is done to the existing grates to be reused.
 - Shop plans for the proposed scupper adjustment ring shall be submitted to the Engineer for approval prior to fabrication.
 - See existing scupper plans for details and dimensions not shown. The Contractor shall verify the type of scupper present and the scupper dimensions.
 - Galvanizing for field welded areas shall be repaired per ASTM A 780.
 - Cost of all labor and materials necessary to remove existing grates, clean existing scuppers and downspouts, furnish and install scupper adjustment ring, and reinstalling the grates is included in the cost per unit each for Drainage Scupper to be Adjusted.
 - Clean existing scuppers and downspouts.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drainage Scupper to be Adjusted	Each	4

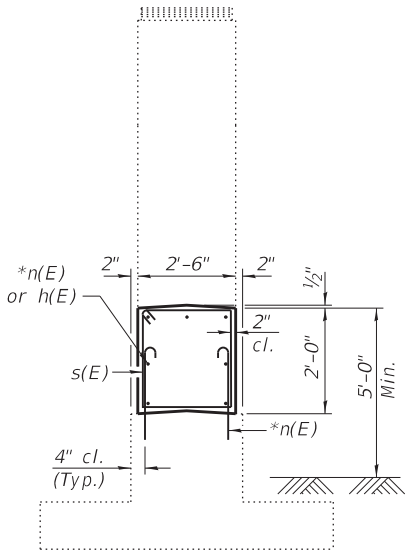
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FILE NAME: c:\p\work\p\work\dudley\cm\1191571\2E59 plansheet.dgn

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE SCUPPER ADJUSTMENT DETAIL SN 054-0075				F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						155	*****	LOGAN	24	18
		CHECKED -	REVISED -						CONTRACT NO. 72E59				
	PLOT DATE = 6/22/2026	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				
	SCALE:		SHEET 8 OF 14 SHEETS						STA.		TO STA.		

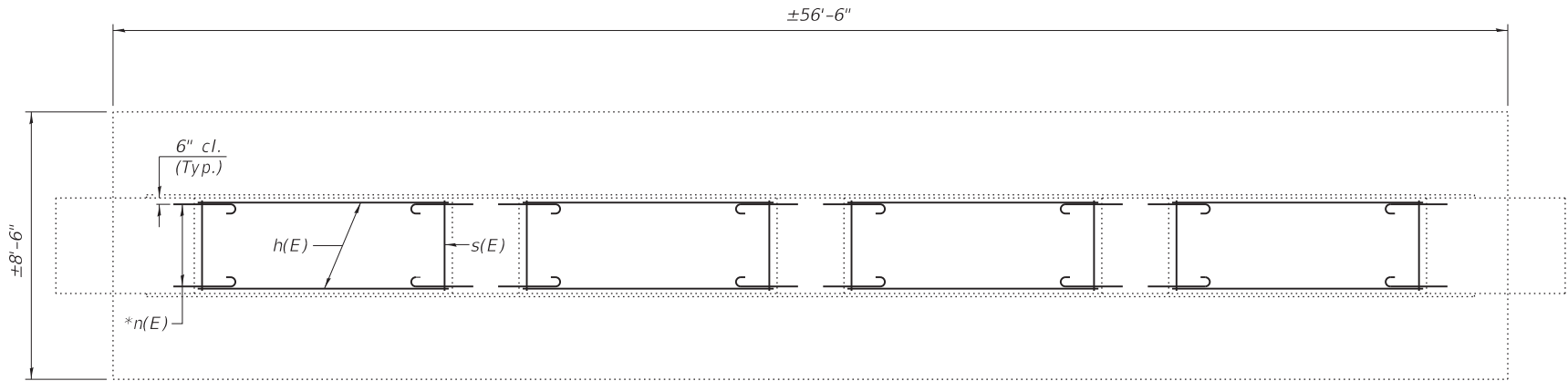


PIER ELEVATION
(Looking West)

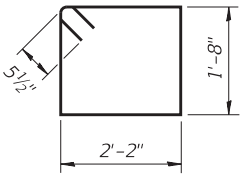
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.



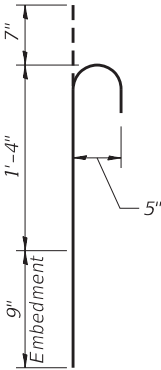
SECTION B-B



SECTION A-A



BAR s(E)



BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#5	8'-11"	
n(E)	104	#5	2'-8"	
s(E)	40	#5	8'-7"	
Concrete Structures			Cu. Yd.	6.9
Reinforcement Bars, Epoxy Coated			Pound	880

MODEL: bridges-8 [Sheet]
FILE NAME: c:\p\work\pwk\dudley\m\1191574172E59 plansheet.dgn

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 6/22/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

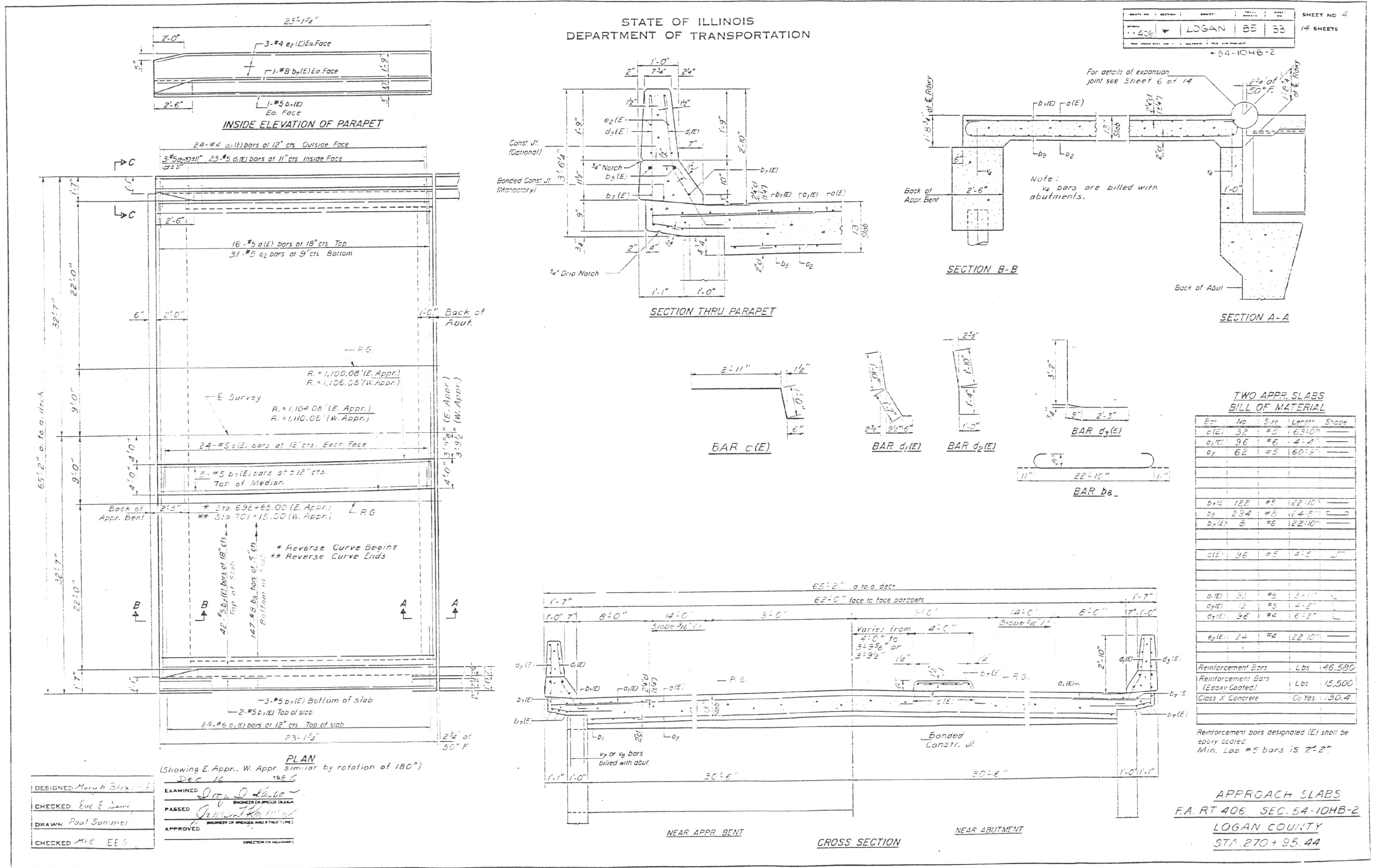
PIER CRASH WALL EXTENSION DETAILS
SN 054-0075

SCALE: SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	19
CONTRACT NO. 72E59				
ILLINOIS FED. AID PROJECT				

***** (54-10HB-2)BDR,BP,BRR,BJR

MODEL: bridge-9 (Sheet)
FILE NAME: c:\pwr\work\bridge\plan\119157172559 plan sheet.dgn



USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 6/22/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 054-0075

SCALE: SHEET 10 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	20
CONTRACT NO. 72E59				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
436	2	LOGAN	85	84
FED. ROAD DIST. NO. 1		ILL. HIGHWAY PROJECT NO.		

SHEET NO. 5
14 SHEETS



SUPERSTRUCTURE
F.A. RT. 406 SEC. 54-10HB-2
LOGAN COUNTY
STA. 270+95.44

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 054-0075

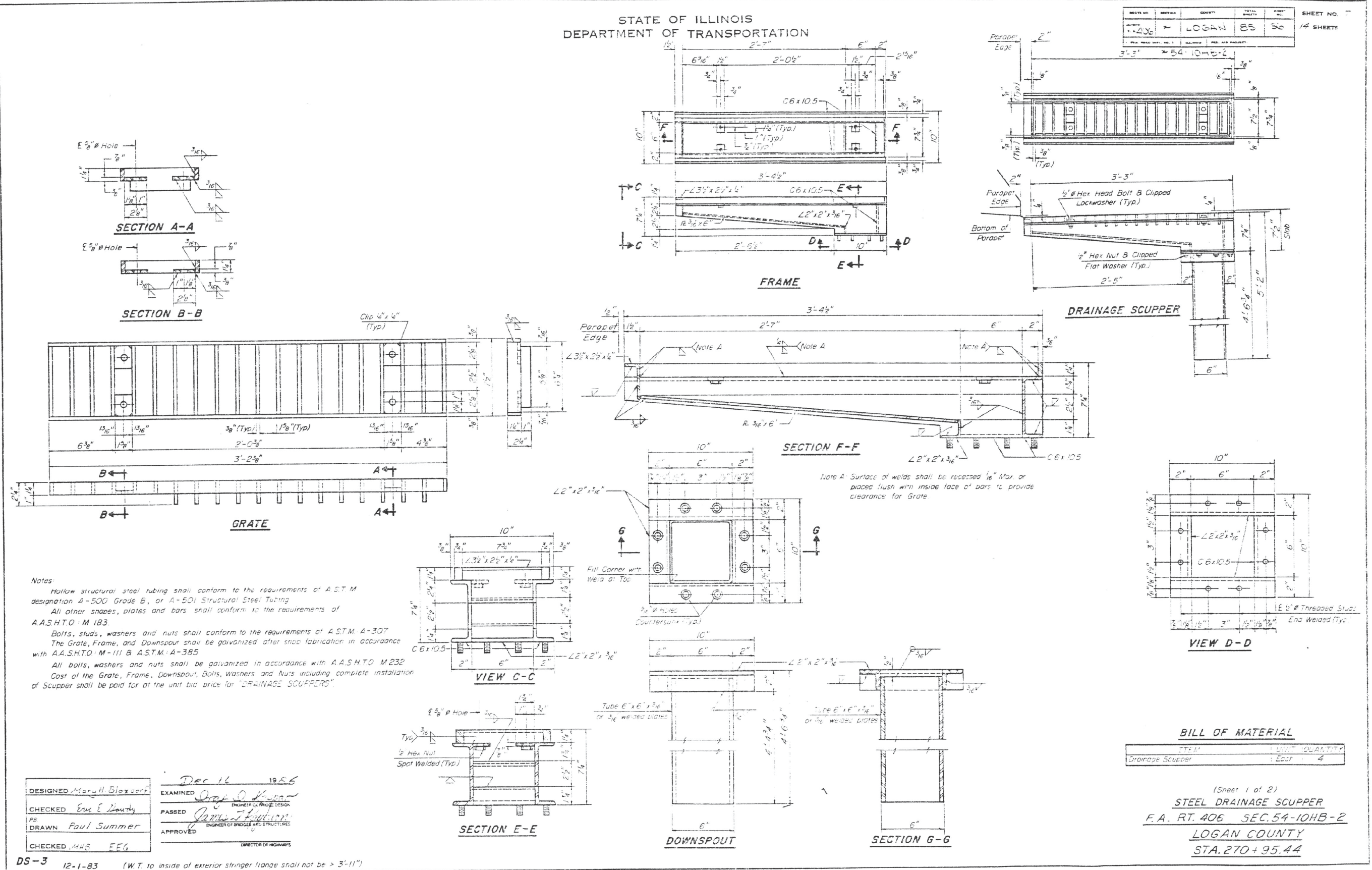
SCALE:	SHEET 11	OF 14	SHEETS	STA.	TO STA.
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	21
CONTRACT NO. 72E59				
		ILLINOIS	FED. AID PROJECT	

***** (54-10HB-2)BDR,BP,BRR,BJR

MODEL: brldge-10 [Sheet]
FILE NAME: c:\pw_work\p\dot\l\dudleybm\d1191574\72E59 plansheet.dgn

MODEL: bridge-11 [Sheet]
FILE NAME: c:\pwworking\brandon.dudley\m119157172E59 plansheet.dgn



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 054-0075

SCALE: SHEET 12 OF 14 SHEETS STA. TO STA.

**** (54-10HB-2)BDR.BP.BRR.BJR

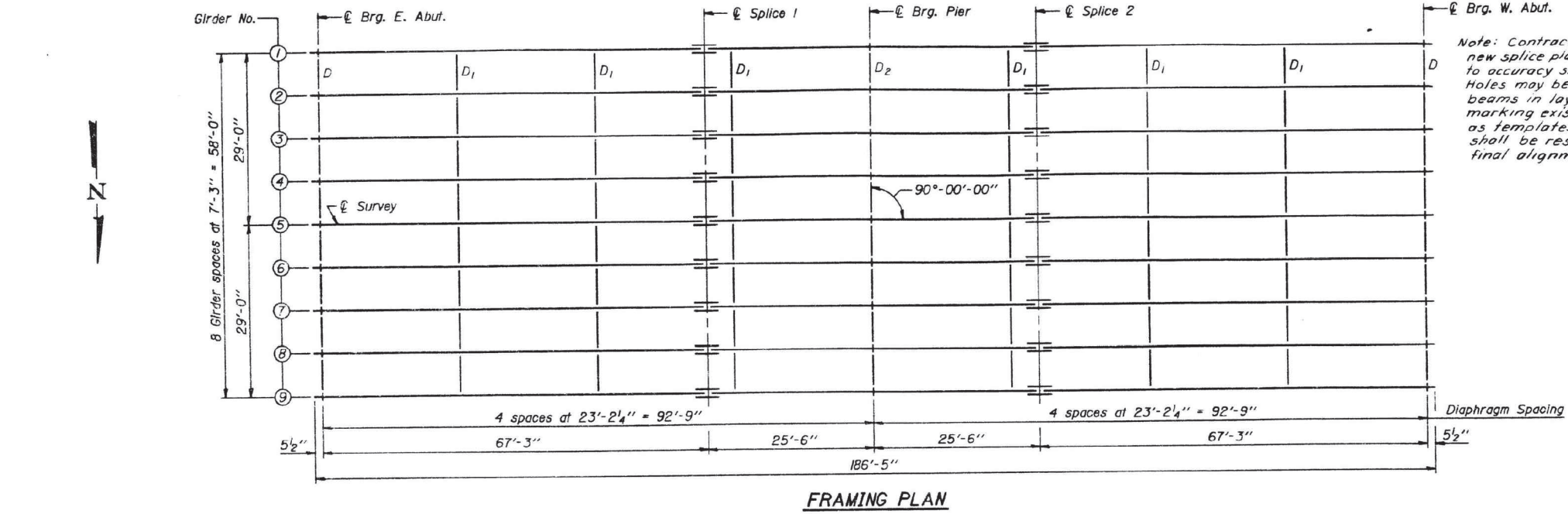
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	22

CONTRACT NO. 72E59

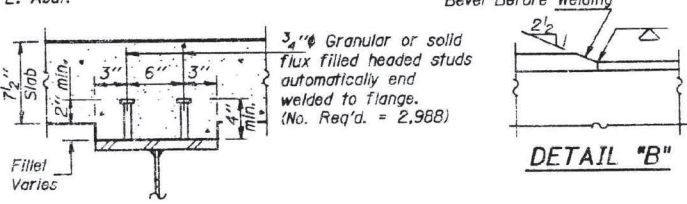
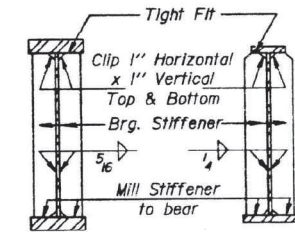
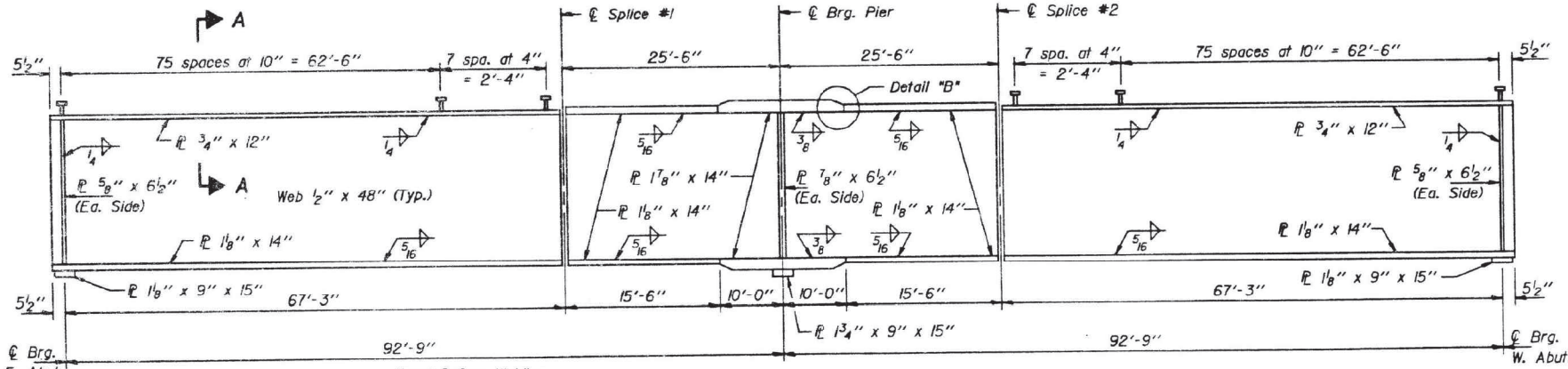
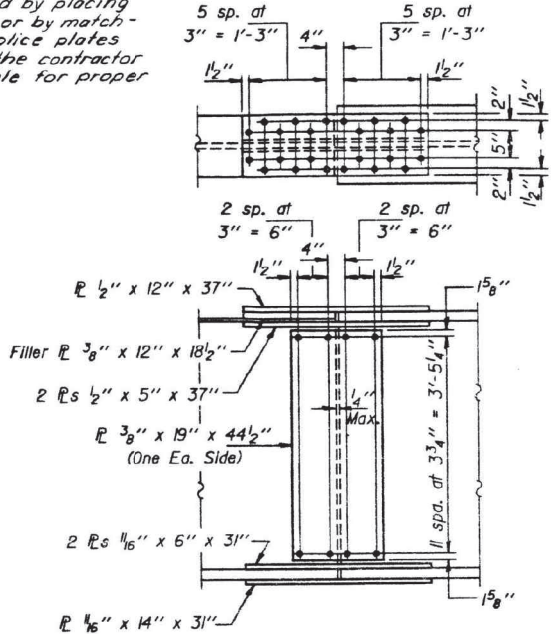
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO.	SECTION	COUNTY	DATE	PROJECT
406	LOGAN	85	38	54-10HB-2
SHEET NO. 9				
14 SHEETS				



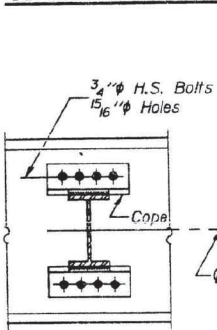
Note: Contractor shall fabricate new splice plates and fill plates to accuracy shown in Art. 507.04(d). Holes may be located by placing beams in lay down or by match-marking existing splice plates as templates, but the contractor shall be responsible for proper final alignment.



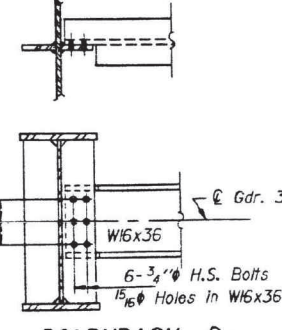
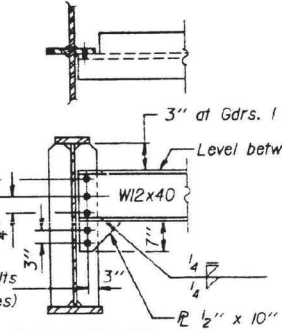
DESIGNED	Harry H. Bickel
CHECKED	Eric E. Hardy
DRAWN	Paul Summer
CHECKED	4HE

EXAMINED	Dr. J. O. Kasper
PASSED	James J. Kasper
APPROVED	

GIRDER ELEVATION



Two hardened washers shall be required over all 1/16" and 1" holes.



NOTE: ALL GIRDERS, DIAPHRAGMS AND WELDED ATTACHMENTS, OTHER THAN STUD SHEAR CONNECTORS, HAVE BEEN PREVIOUSLY FABRICATED AND ARE LOCATED IN THE DISTRICT 6 MAINTENANCE DEPOT. NEW STRUCTURAL STEEL, WHICH INCLUDES SPLICE PLATES, FILLER PLATES AND HIGH STRENGTH BOLTS AND WASHERS, SHALL BE FURN. & ERECTED BY CONTRACTOR.

STRUCTURAL STEEL
F.A. RT. 406 SEC. 54-10HB-2
LOGAN COUNTY
STA. 270+95.44

G-1 4-1-79
Revised 3-18-67 M.H.B.

USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 6/22/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 054-0075

SCALE: SHEET 13 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	*****	LOGAN	24	23
CONTRACT NO. 72E59				

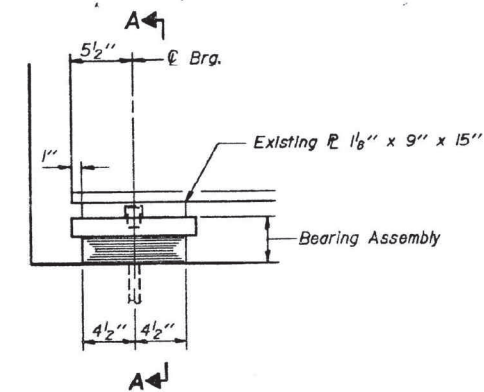
***** (54-10HB-2)BDR,BP,BRR,BJR

MODEL: bridge-12 (Sheet)
FILE NAME: c:\paw\work\bridge\m1191574172E59.plansheet.dgn

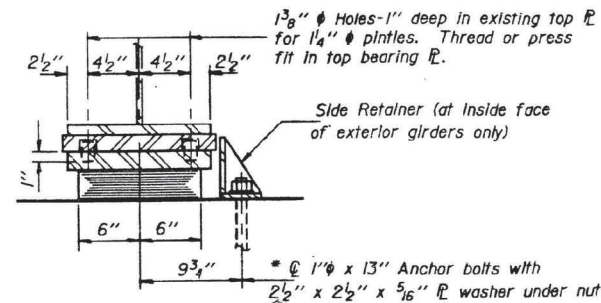
MODEL: bridge-13 (Sheet)
FILE NAME: c:\pwwork\ktdudley\cml1191574172E59 plansheet.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
406	*	LOGAN	83	39
SHEET NO. 10				
14 SHEETS				
54-10HB-2				



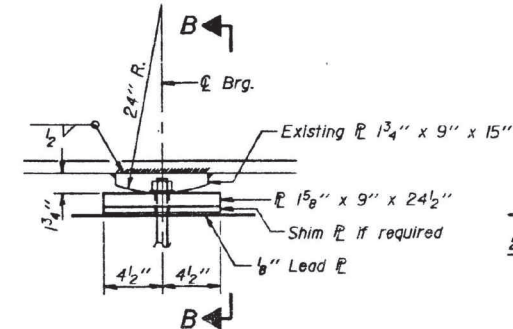
ELEVATION AT ABUTS.



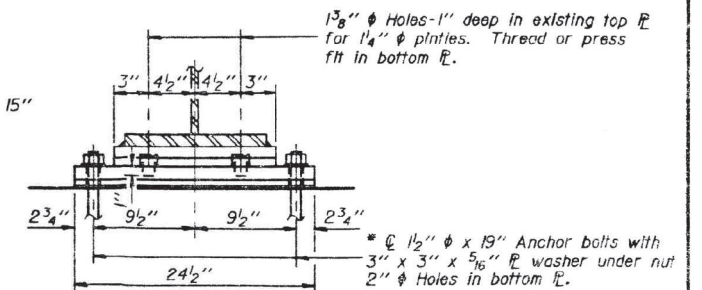
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

* Notes: Anchor bolts at fixed bearings may be built into the masonry.
See sheet 11 of 14 for Anchor Bolt installation.

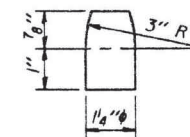


ELEVATION AT PIER



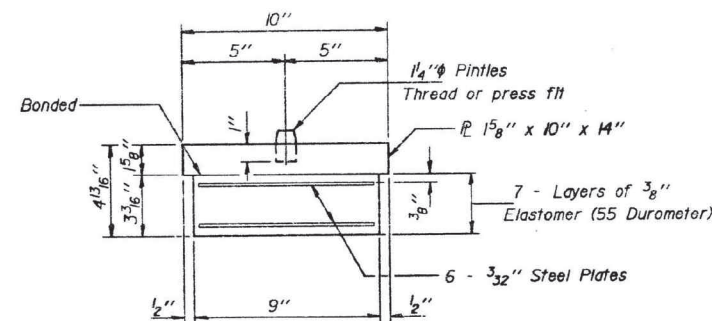
SECTION B-B

FIXED BEARING



PINTLE

NOTE:
NEW STRUCTURAL STEEL, TO BE FURNISHED & ERECTED BY CONTRACTOR SHALL INCLUDE THE BOTTOM BEARING PLATES OF THE FIXED BEARING, SHIM PLATES, LEAD PLATES, PINTLES, ANCHOR BOLTS, NUTS & WASHERS AND THE SIDE RETAINERS.



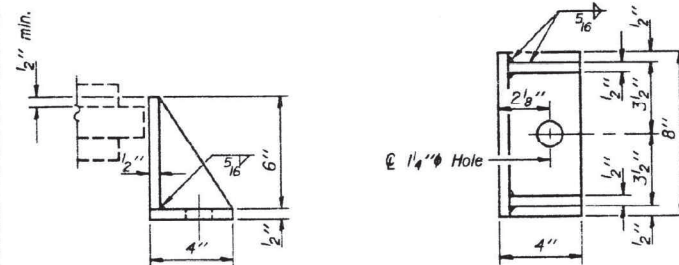
BEARING ASSEMBLY

INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. #1 or 0.6 Sp. #2	Pier
Is (in ⁴)	18,884	37,272
Ic (in ⁴)	48,953	
Ss (in ³)	670	1,440
Sc (in ³)	1,200	
ψ (K/ft.)	0.897	1.311
M _P (K)	477	1,427
f _s non-comp (k.s.i.)	8.5	11.9
s _P (K/ft.)	0.318	
M _{sP} (K)	206	
M _t (K)	764	593
M (Imp) (K)	176	136
TOTAL (K)	1,445	729
f _s comp (k.s.i.)	11.5	6.1
f _s TOTAL (k.s.i.)	20.0	18.0
VR (K)	56.1	

INTERIOR GIRDER REACTION TABLE		
	Abuts.	Piers
R _P (K)	41.0	143.4
R _t (K)	41.7	65.0
Imp. (K)	9.6	15.0
R TOTAL (K)	92.3	223.4

Is and Ss are the moment of inertia and section modulus of the steel section used in computing f_s TOTAL
Ic and Sc are the moment of inertia and section modulus of the composite section used in computing f_s TOTAL.

VR is the maximum Live Load + Impact shear range in span.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED	Mary A. Blandford	EXAMINED	Greg J. Kasper
CHECKED	Eric E. Lofsky	PASSED	James J. Kasper
DRAWN	Paul Summer	APPROVED	
CHECKED	Mike		

I-2-EI 12-1-83

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	18

BEARING DETAILS
F.A. RT. 406 SEC. 54-10HB-2
LOGAN COUNTY
STA. 270+95.44

**** (54-10HB-2)BDR,BP,BRR,BJR

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 6/22/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 054-0075

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	****	LOGAN	24	24
CONTRACT NO. 72E59				
ILLINOIS FED. AID PROJECT				