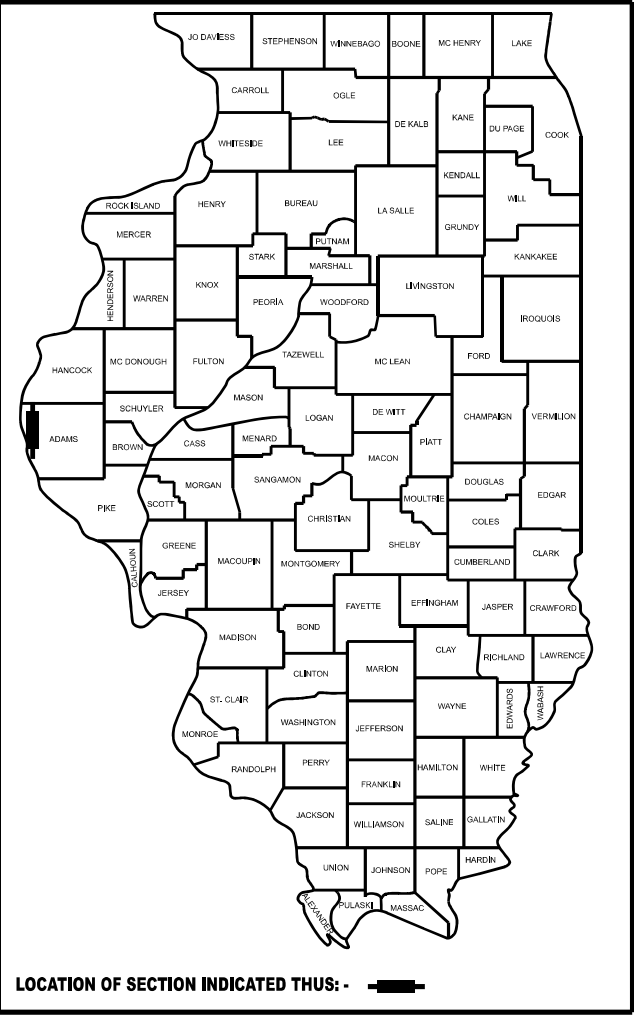


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	1
		ILLINOIS	CONTRACT NO. 72E83	

D-96-037-26



LOCATION OF SECTION INDICATED THUS: -

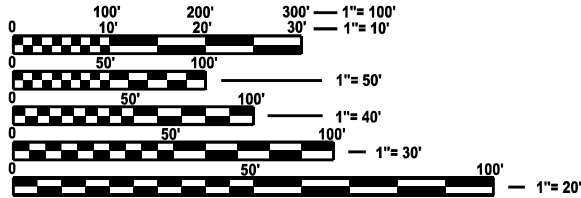
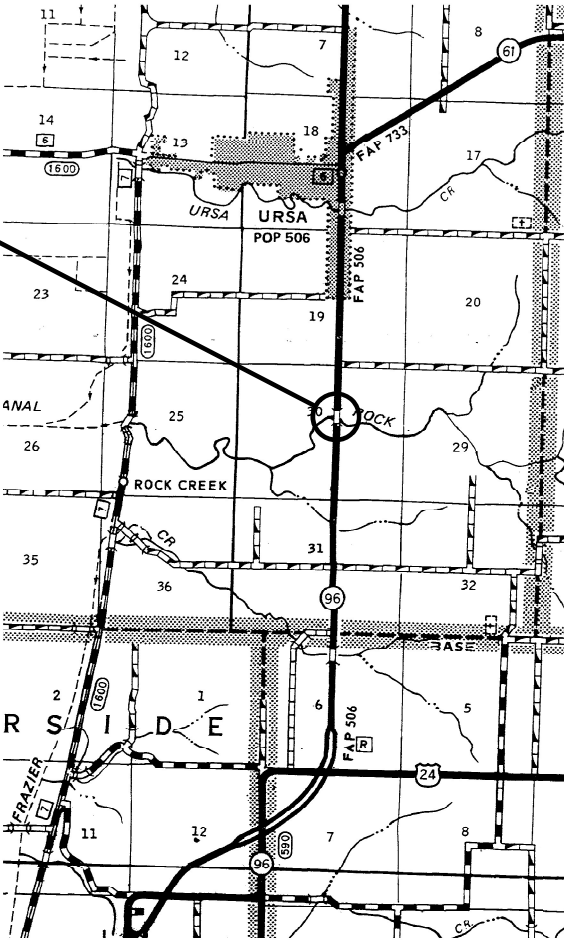
FOR INDEX OF SHEETS, SEE SHEET NO. 2



PROPOSED
HIGHWAY PLANS

FAP ROUTE 506 (IL 96)
SECTION (10B-1)BDR,BRR-1,I
PROJECT BR-LRCI(297)
BRIDGE DECK OVERLAY
ADAMS COUNTY
C-96-074-26

PROJECT LOCATION
SN 001-0008
IL 96 OVER ROCK CR.
2.0 MI S. IL 61 IN URSA



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. 72E83

GROSS LENGTH = 108 FT. = 0.02 MILE
NET LENGTH = 108 FT. = 0.02 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 22, 2026
Teresa C. Price
REGIONAL ENGINEER
August 14, 2026
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
August 14, 2026
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1COVER SHEET
- 2INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES
- 3-5SUMMARY OF QUANTITIES
- 6TYPICAL SECTIONS
- 7ROADWAY PLAN
- 8-10TRAFFIC CONTROL PLAN
- 11-19BRIDGE PLANS, SN 001-0008

HIGHWAY STANDARDS

- 000001-09
- 001001-02
- 001006
- 701001-02
- 701006-05
- 701201-05
- 701301-04
- 701311-03
- 701321-19
- 701901-11
- 704001-08
- 780001-05
- 782006-01

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

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

GENERAL NOTES:

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

THE CONTRACTOR SHALL USE TYPE IV PAVEMENT MARKING TAPE AS SHORT-TERM PAVEMENT MARKING ON THE SURFACE LIFT.

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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		DRAWN -	REVISED -					506	(10B-1)BDR,BRR-1,I	ADAMS	19	2
		CHECKED -	REVISED -					CONTRACT NO. 72E83				
	PLOT DATE = 4/27/2026	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:		SHEET 1	OF 1	SHEETS	STA.	TO STA.		

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				SN 001-0008
				80% FED. BFP
				20% STATE
				BRIDGE
				0047
				RURAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	87	87
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	489	489
40600990	TEMPORARY RAMP	SQ YD	118	118
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	170	170
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	15	15
50102400	CONCRETE REMOVAL	CU YD	13.1	13.1
50300100	FLOOR DRAINS	EACH	12	12
50300255	CONCRETE SUPERSTRUCTURE	CU YD	21.3	21.3
50300260	BRIDGE DECK GROOVING	SQ YD	450	450
50300300	PROTECTIVE COAT	SQ YD	580	580
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1740	1740
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3880	3880
50800515	BAR SPLICERS	EACH	24	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	92	92

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				SN 001-0008
				80% FED. BFP 20% STATE
				BRIDGE
				0047
				RURAL
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	12
52100520	ANCHOR BOLTS, 1"	EACH	24	24
53016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	12	12
53101002	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	473	473
53101609	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	473	473
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	85	85
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGNS	CAL DAY	180	180
70300100	SHORT TERM PAVEMENT MARKING	FOOT	40	40

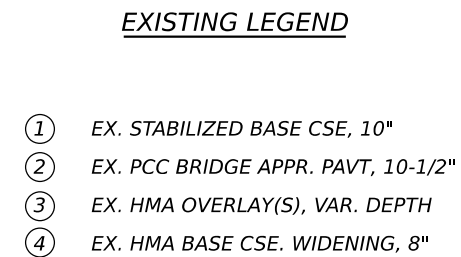
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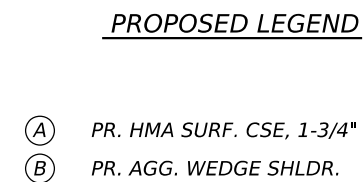
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				SN 001-0008
				80% FED. BFP 20% STATE
				BRIDGE
				0047
				RURAL
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	14	14
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	450	450
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	2100	2100
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	500	500
X5091766	BRIDGE HANDRAIL REMOVAL	FOOT	208	208
X6050184	PLUG EXISTING FLOOR DRAINS	EACH	20	20
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	10	10
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12	12

* SPECIALTY ITEM

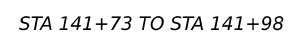
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	PLOT DATE = 4/27/2026	DATE -	REVISED -		SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



STA 138+80 TO STA 140+21
STA 141+98 TO STA 143+40
(SPBGR LIMITS = STA 139+39 TO STA 142+76 LT
& STA 139+55 TO STA 143+05 RT)



BRIDGE OMISSION
STA 140+66 TO STA 141+73



USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/27/2026	DATE -	REVISED -

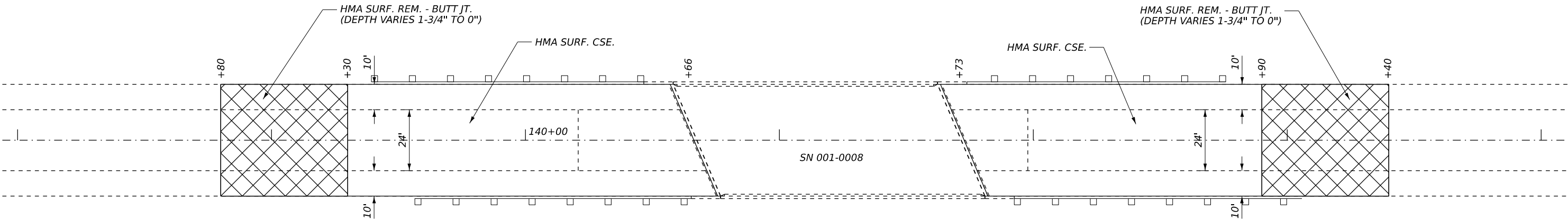
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 72E83		
ILLINOIS		FED. AID PROJECT		

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PLAN

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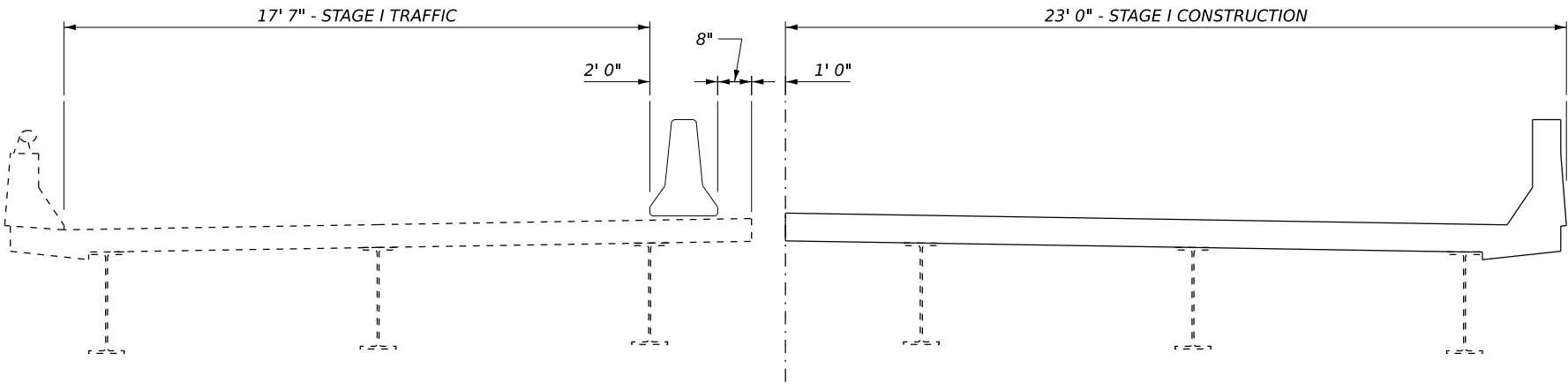
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

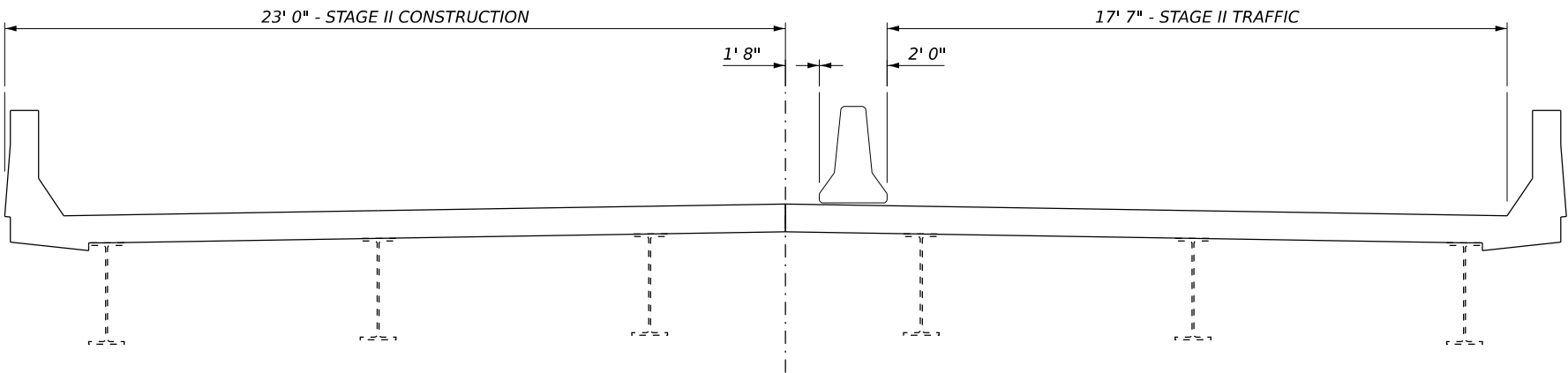
ROADWAY PLAN

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	7
CONTRACT NO. 72E83				
ILLINOIS FED. AID PROJECT				



STAGE I TRAFFIC - LOOKING NORTH

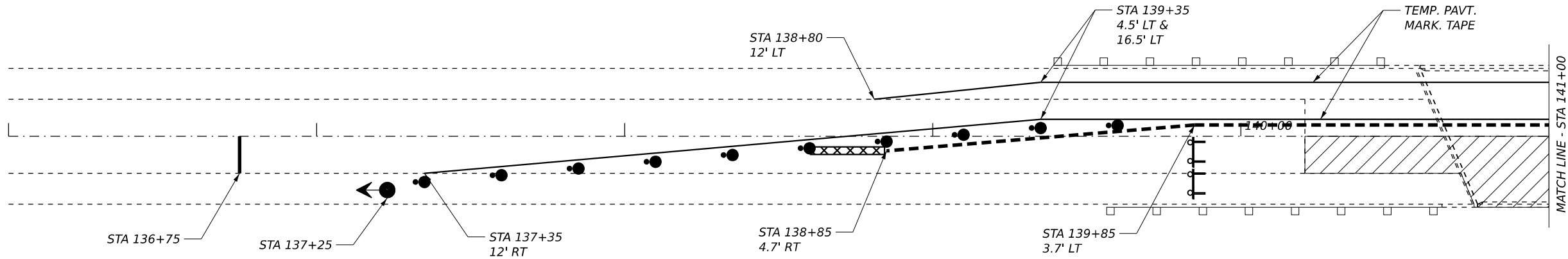


STAGE II TRAFFIC - LOOKING NORTH

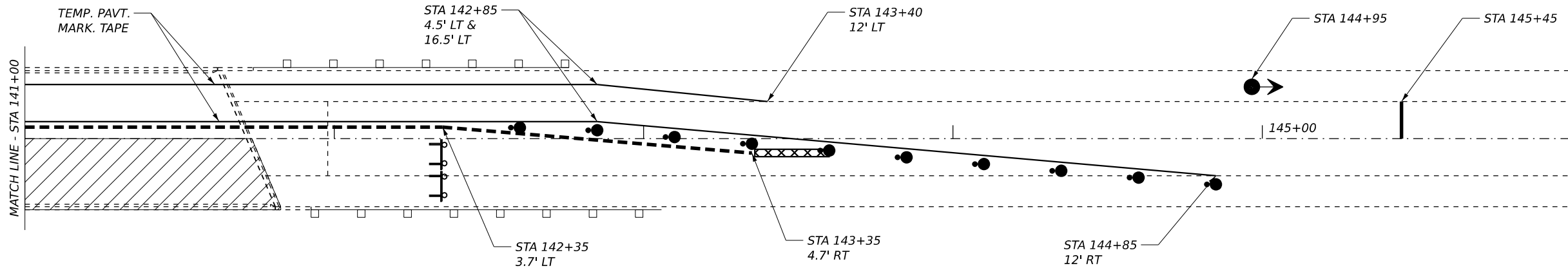
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MODEL: TC-2 [Sheet]
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STAGE I TRAFFIC - PARTIAL PLAN



STAGE I TRAFFIC - PARTIAL PLAN

SYMBOLS



WORK AREA



DRUM WITH STEADY BURN
BI-DIRECTIONAL LIGHT



TRAFFIC SIGNAL



TYPE III BARRICADE WITH
FLASHING LIGHTS



TEMPORARY CONCRETE BARRIER



IMPACT ATTENUATOR

TRAFFIC CONTROL NOTES:

1. Traffic control devices not shown in this detail shall be per standard 701321. Devices and temporary pavement markings shown in this detail shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. Impact attenuators temporary rumble strips, temporary concrete barrier, and temporary traffic signals shall be paid separately.
2. Temporary concrete barrier offsets given in this detail refer to the edge of the barrier nearest to live traffic.

PLOT DATE = 4/27/2026	USER NAME = brandon.dudley	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
	DATE -		REVISED -

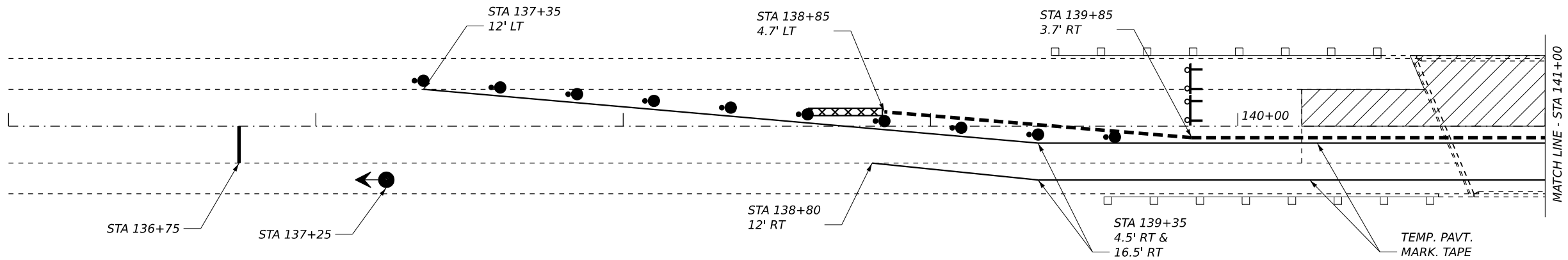
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL

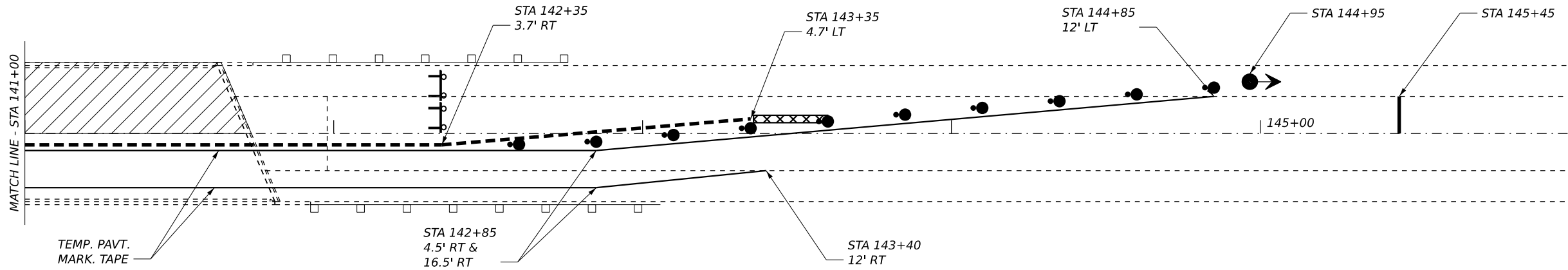
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	9
CONTRACT NO. 72E83				
ILLINOIS FED. AID PROJECT				

MODEL: TC-3 (Sheet)
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STAGE II TRAFFIC - PARTIAL PLAN



STAGE II TRAFFIC - PARTIAL PLAN

SYMBOLS



WORK AREA



DRUM WITH STEADY BURN
BI-DIRECTIONAL LIGHT



TRAFFIC SIGNAL



TYPE III BARRICADE WITH
FLASHING LIGHTS



TEMPORARY CONCRETE BARRIER



IMPACT ATTENUATOR

TRAFFIC CONTROL NOTES:

1. Traffic control devices not shown in this detail shall be per standard 701321. Devices and temporary pavement markings shown in this detail shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. Impact attenuators temporary rumble strips, temporary concrete barrier, and temporary traffic signals shall be paid separately.
2. Temporary concrete barrier offsets given in this detail refer to the edge of the barrier nearest to live traffic.

PLOT DATE = 4/27/2026	USER NAME = brandon.dudley	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	10
CONTRACT NO. 72E83				
ILLINOIS FED. AID PROJECT				

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.

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.

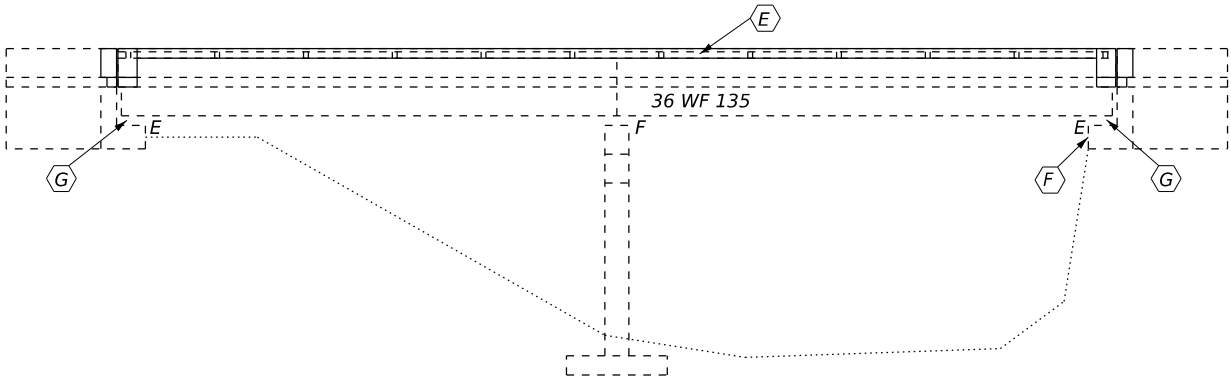
No field welding is permitted except as specified in the contact documents.

Protective coat shall be applied to areas of new concrete only.

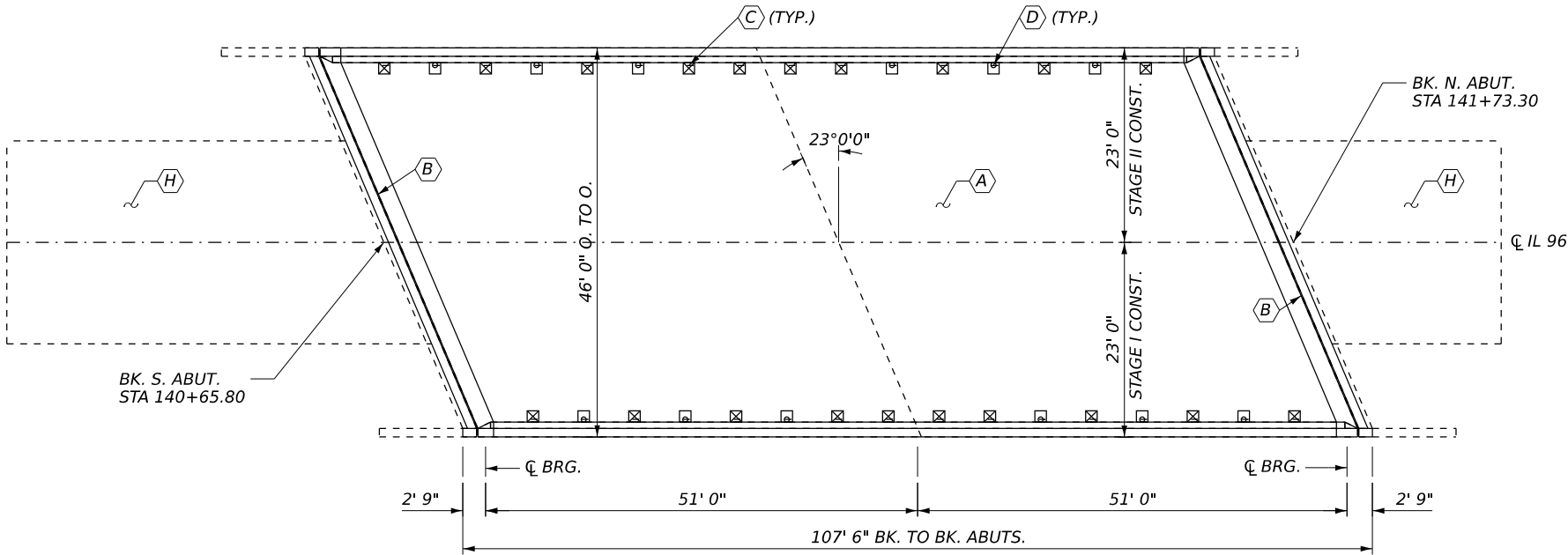
- (A) - Scarify 3/4" & place 2-1/2" microsilica overlay, FD patching as necessary.
- (B) - Remove & replace expansion joint.
- (C) - Remove floor drain via FD patch.
- (D) - Replace floor drain via FD patch.
- (E) - Remove handrail and replace with concrete.
- (F) - Structural repair of concrete.
- (G) - Replace abutment bearings.
- (H) - PD approach patching.

TOTAL BILL OF MATERIAL (001-0008)

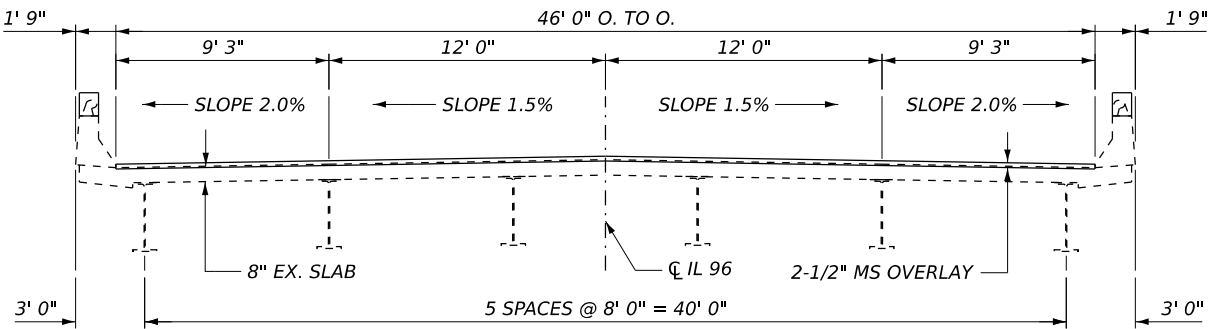
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	13.1
Concrete Superstructure	Cu. Yd.	21.3
Reinforcement Bars, Epoxy Coated	Pound	3,410
Preformed Joint Strip Seal	Foot	100
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	12
Floor Drains	Each	12
Plug Existing Floor Drains	Each	20
Bridge Handrail Removal	Foot	208
Bridge Deck Scarification 3/4"	Sq. Yd.	473
Bridge Deck Microsilica Concrete Overlay 2-1/2"	Sq. Yd.	473
Bridge Deck Grooving	Sq. Yd.	450
Protective Coat	Sq. Yd.	580
Bar Splicers	Each	24
Approach Slab Repair (Partial Depth)	Sq. Yd.	10
Jack And Remove Existing Bearings	Each	12
Elastomeric Bearing Assembly, Type I	Each	12
Furnishing And Erecting Structural Steel	Pound	1,740
Anchor Bolts, 1"	Each	24
Structural Repair Of Concrete (Depth Equal To Or Less Than 5")	Sq. Ft.	85



ELEVATION



PLAN



CROSS SECTION



Mark Shaffer
Expires Nov. 30, 2026

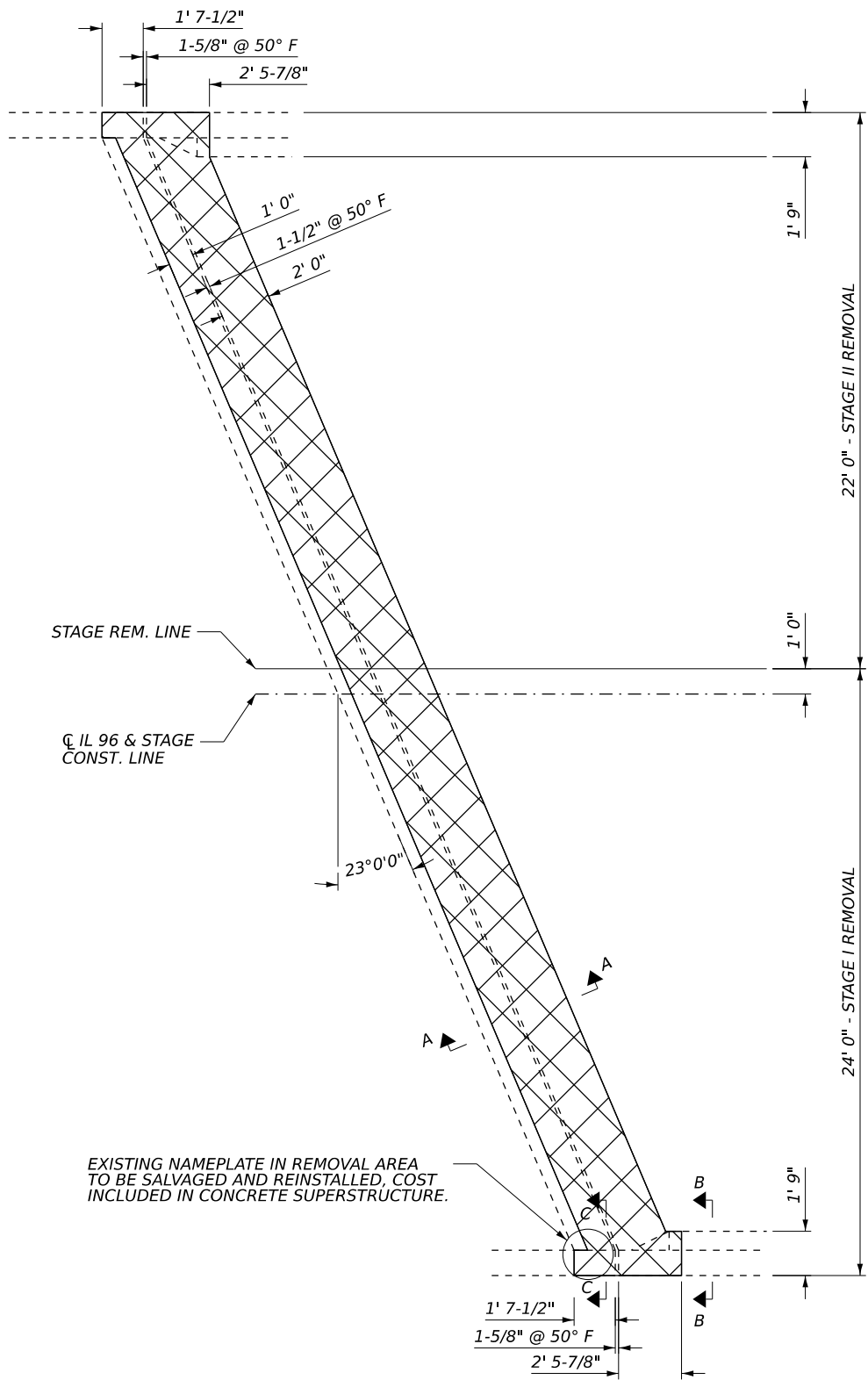
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PLOT DATE = 4/27/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

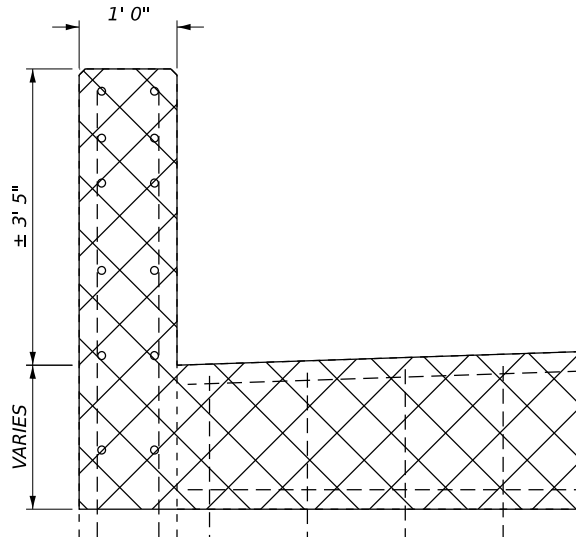
BRIDGE PLAN & ELEVATION
SN 001-0008

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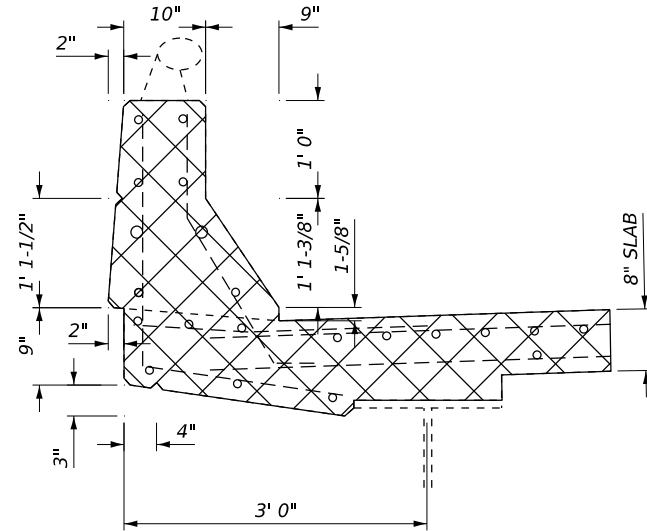
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CONTRACT NO. 72E83				
ILLINOIS FED. AID PROJECT				



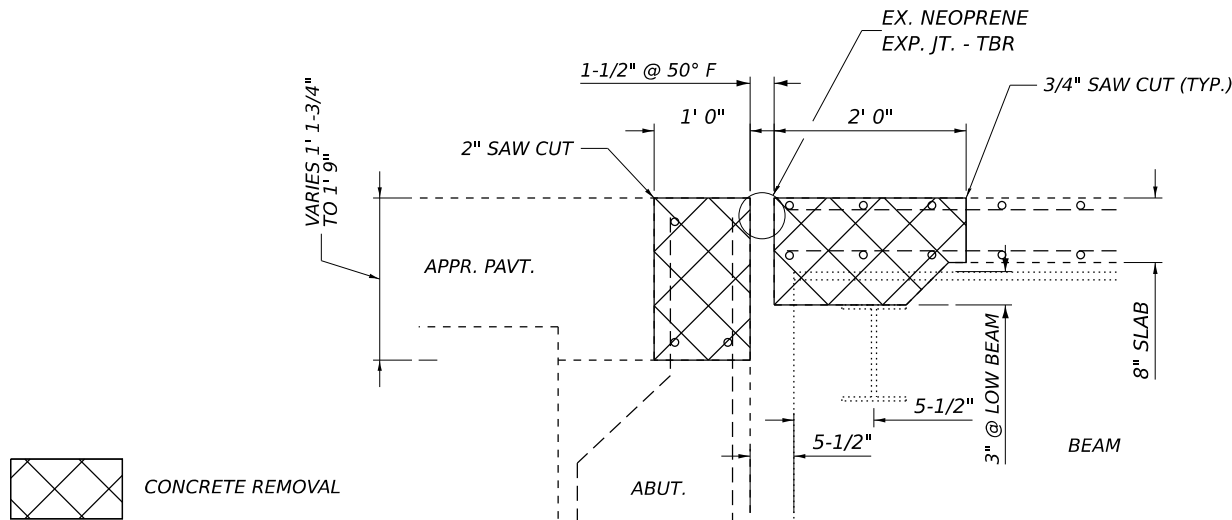
JOINT REMOVAL PLAN
(S. JT. SHOWN - N. JT. SIMILAR)



SECTION C-C



SECTION B-B



SECTION A-A

NOTE: LONGITUDINAL BARS AND VERTICAL BARS EXTENDING INTO THE REOVAL AREAS SHALL BE PRESERVED, STRAIGHTENED, AND REUSED.

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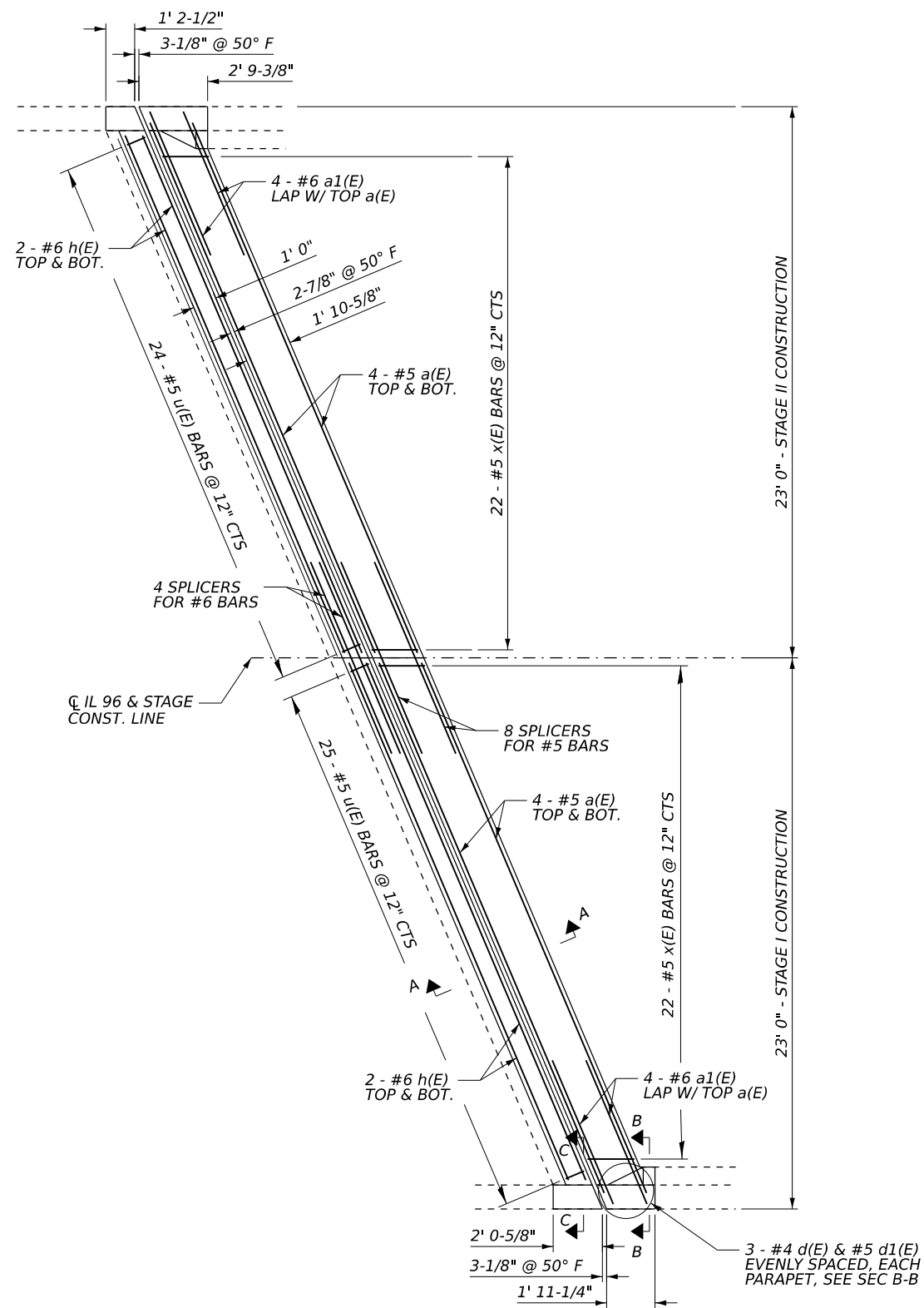
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		CHECKED -	REVISED -
	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

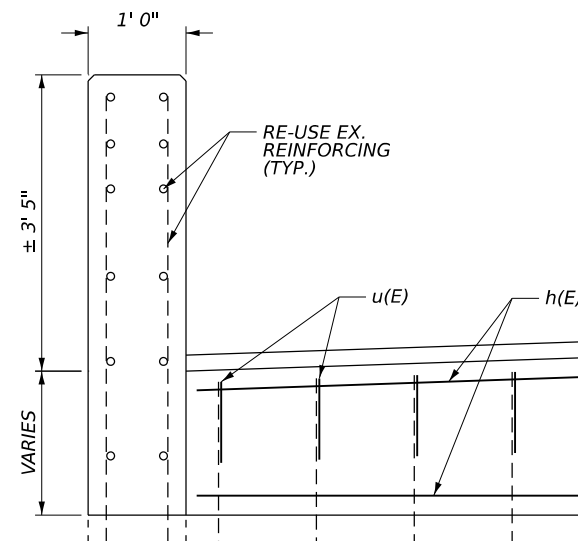
JOINT REMOVAL
SN 001-0008

SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.

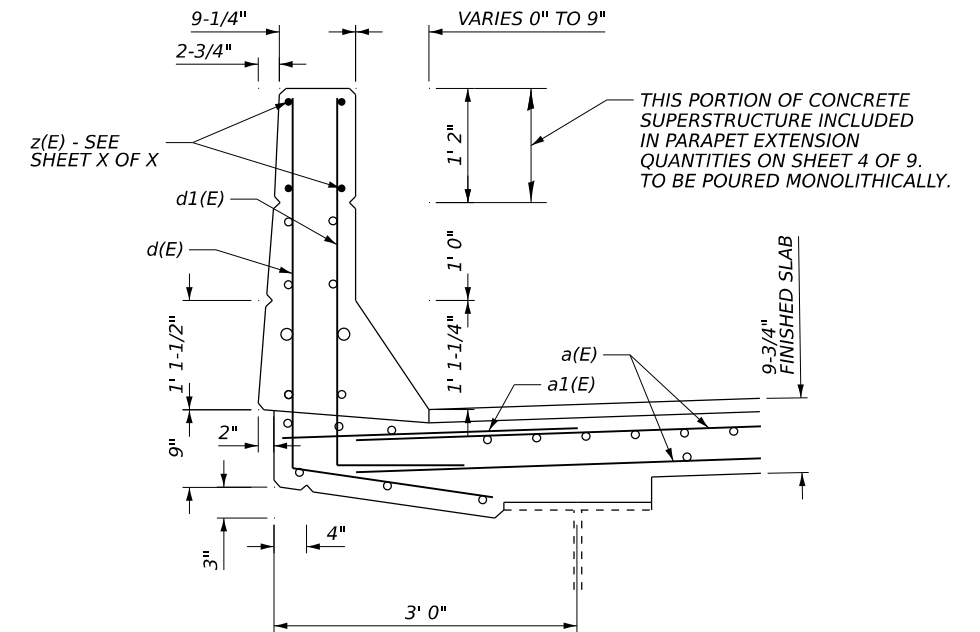
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	12
CONTRACT NO. 72E83				
ILLINOIS FED. AID PROJECT				



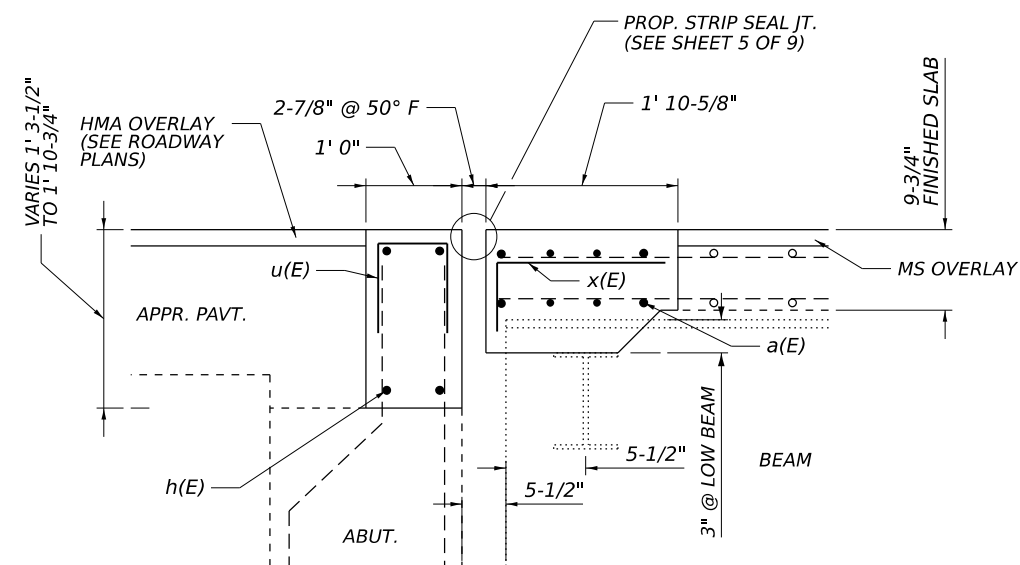
JOINT PLAN
(S. JT. SHOWN - N. JT. SIMILAR)



SECTION C-C

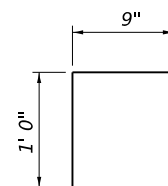


SECTION B-B

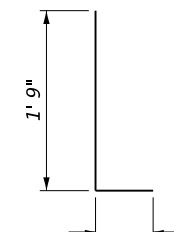
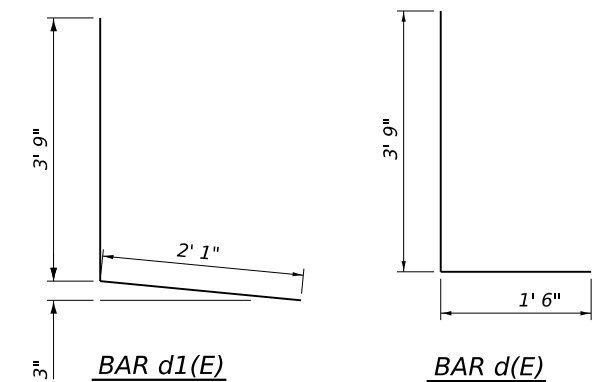


SECTION A-A

NOTE: DIMENSIONS BASED ON ROLLED RAIL JOINT (SEE SHEET 5 OF 9)



BAR $u(E)$


$$\frac{BAR \ x(E)}{}$$


BAR d1(E)

$$\underline{BAR \ d(E)}$$

ABUTMENT JOINTS
BILL OF MATERIAL (2 JOINTS)

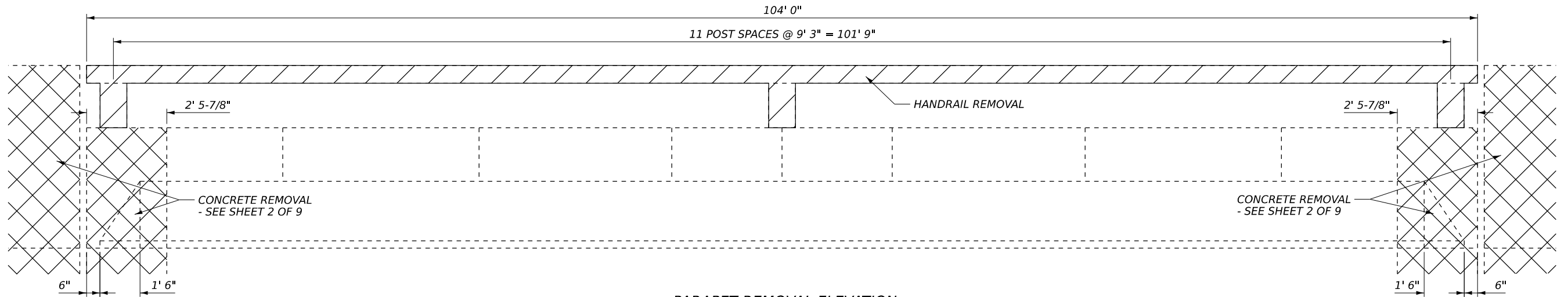
Bar	No.	Size	Length	Shape
a(E)	32	#5	23'-9"	————
a1(E)	16	#6	6'-6"	————
d(E)	12	#4	5'-3"	—┐
d1(E)	12	#5	5'-10"	└—
h(E)	16	#6	23'-7"	————
u(E)	98	#5	2'-9"	┐—
x(E)	88	#5	2'-3"	—┐
Concrete Removal			Cu. Yd.	13.1
Concrete Superstructure			Cu. Yd.	14.1
Reinforcement Bars, Epoxy Coated			Pound	2120
Bar Slicers			Each	24

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/27/2026	DATE -	REVISED -

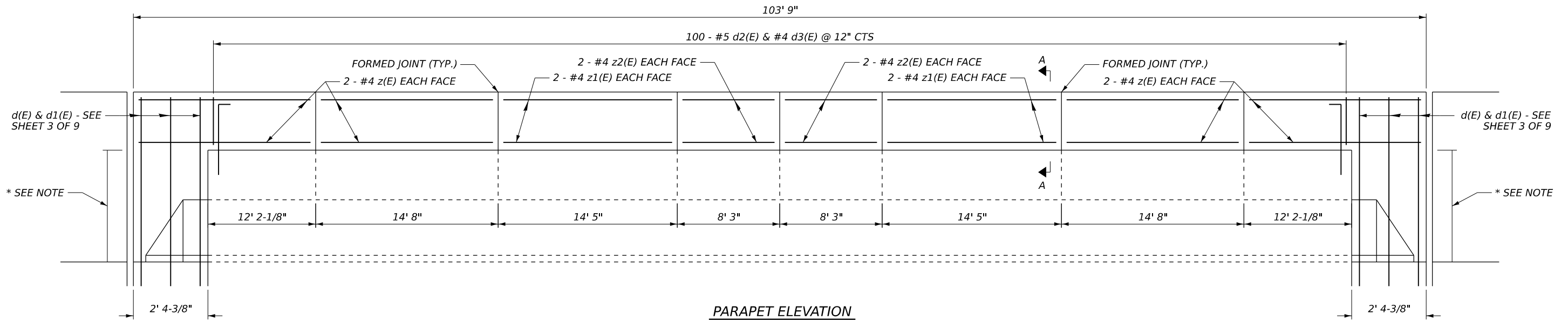
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

JOINT DETAILS
SN 001-0008

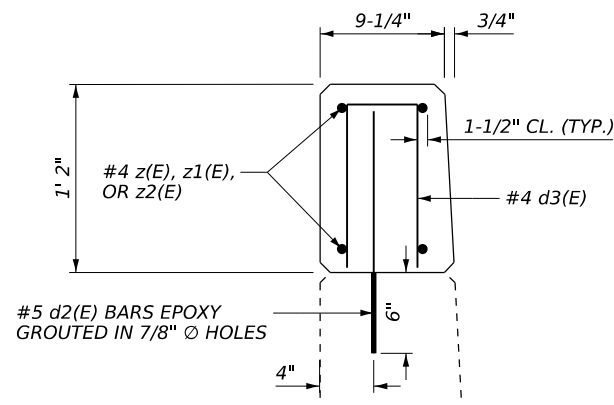
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	13
		CONTRACT NO. 72E83		
		ILLINOIS	FED. AID PROJECT	



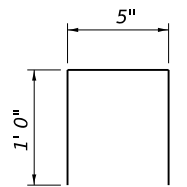
PARAPET REMOVAL ELEVATION
(TYPICAL BOTH SIDES)



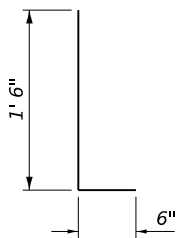
PARAPET ELEVATION
(TYPICAL BOTH SIDES)



SECTION A-A



BAR d3(E)



BAR d2(E)

* THIS PORTION OF CONCRETE SUPERSTRUCTURE INCLUDED IN EXPANSION JOINT REPLACEMENT QUANTITIES ON SHEET 3 OF 9. TO BE POURED MONOLITHICALLY.

**CONC. PARAPET EXTENSION
BILL OF MATERIAL (2 PARAPETS)**

Bar	No.	Size	Length	Shape
d2(E)	200	#5	2'-0"	—
d3(E)	200	#4	2'-5"	□
z(E)	32	#4	14'-4"	—
z1(E)	16	#4	14'-1"	—
z2(E)	16	#4	7'-11"	—
Bridge Handrail Rem.			Foot	208
Concrete Superstructure			Cu. Yd.	7.2
Reinforcement Bars, Epoxy Coated			Pound	1290

MODEL: bridge-4 (Sheet)
FILE NAME: c:\p\work\pwork\duddley\m121910000 72E83 File Template72E83 plansheet.dgn

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/27/2026	DATE -	REVISED -

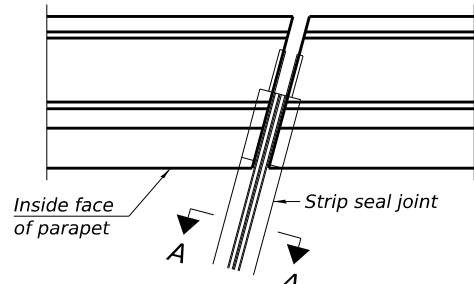
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET EXTENSION
SN 001-0008**

SCALE: SHEET 4 OF 9 SHEETS STA. TO STA.

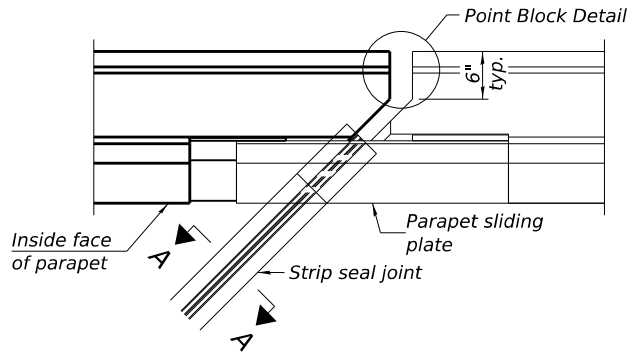
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	14
CONTRACT NO. 72E83				
ILLINOIS FED. AID PROJECT				

MODEL: bridge-5 (Sheet)
FILE NAME: c:\p\work\wikidoc\dudley\cm1219190100 72E83 File Template72E83 plansheet.dgn

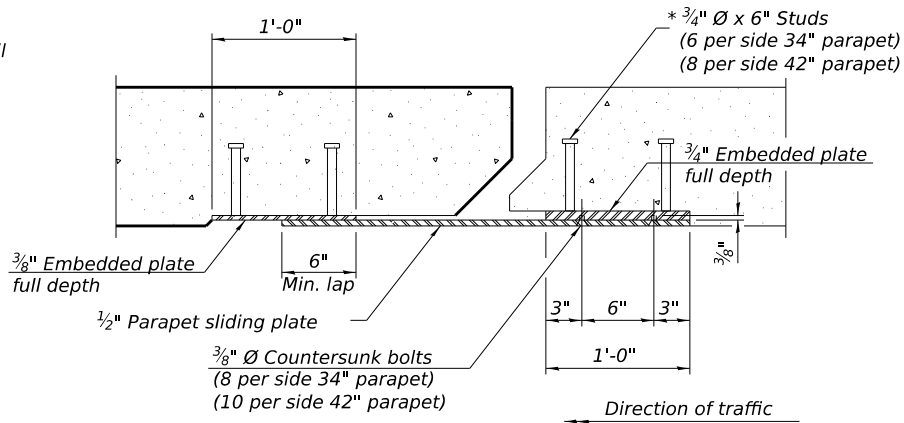


FOR SKEWS $\leq 30^\circ$

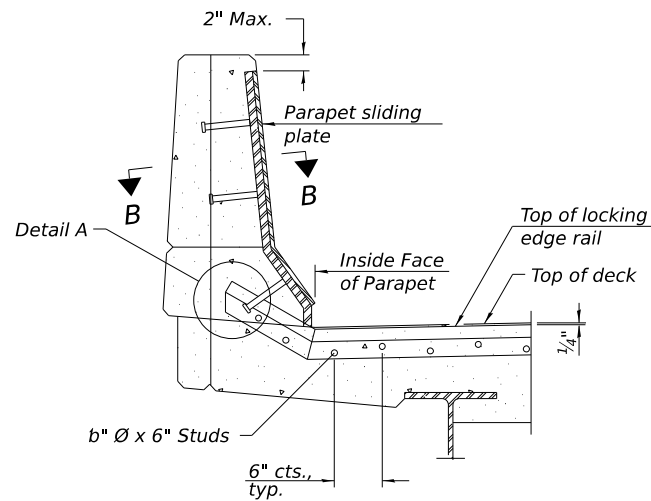
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

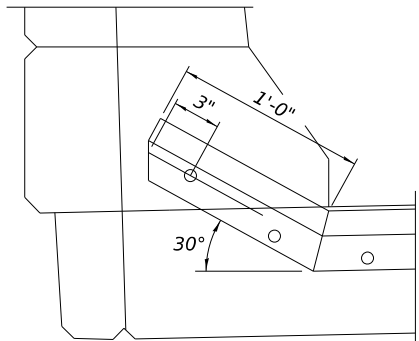


SECTION B-B

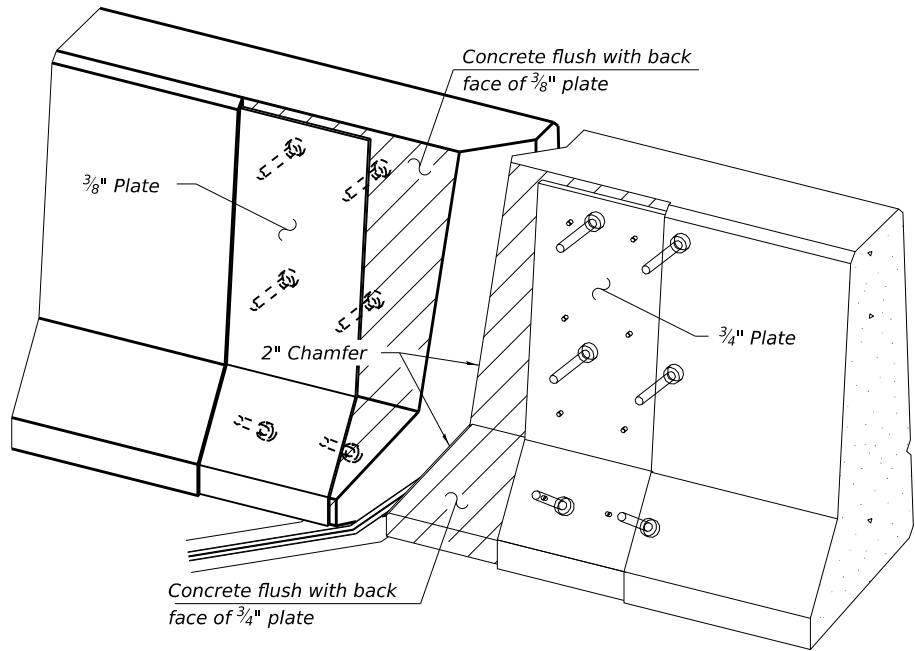


ELEVATION AT PARAPET

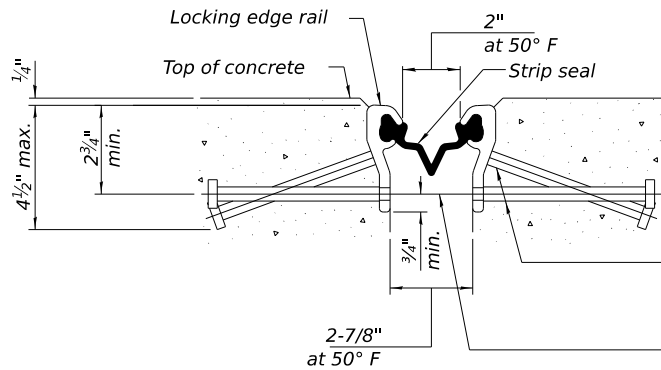
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



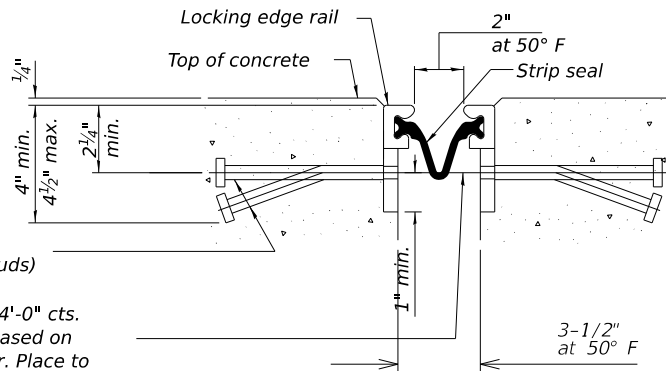
SHOWING ROLLED RAIL JOINT

* $\frac{5}{8}$ " $\varnothing$ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

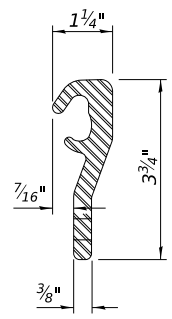
b" $\varnothing$ threaded rods in D" $\varnothing$ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

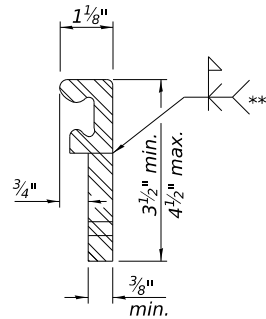
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



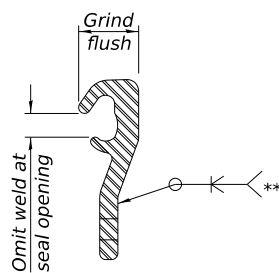
ROLLED
(EXTRUDED) RAIL



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	100

EJ-SS

8-11-17

USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 4/27/2026	DATE	-	REVISED	-

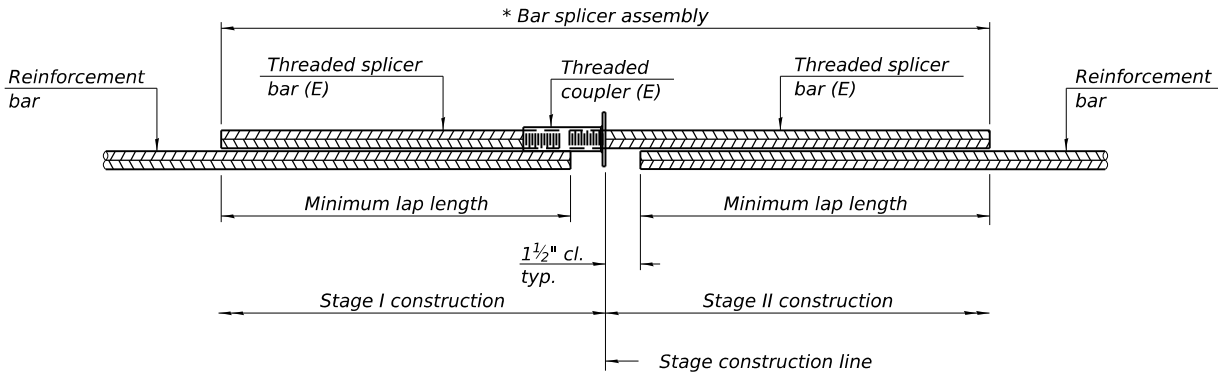
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 001-0008

SCALE: SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	15
CONTRACT NO. 72E83				
ILLINOIS FED. AID PROJECT				

MODEL: bridges6 [Sheet]
FILE NAME: c:\ppl_work\wikidtd\dudley\cml41219190\00 72E83 File Template72E83 plansheet.dgn



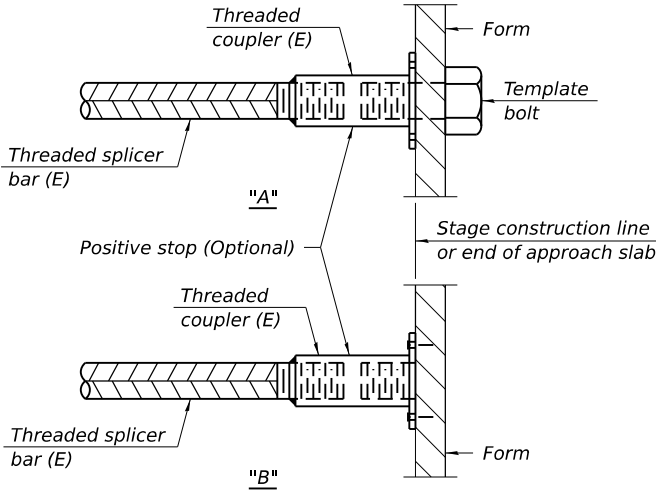
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Abut. Jts. (deck)	#5	16	3'-10"
Abut. Jts. (appr.)	#6	8	4'-5"

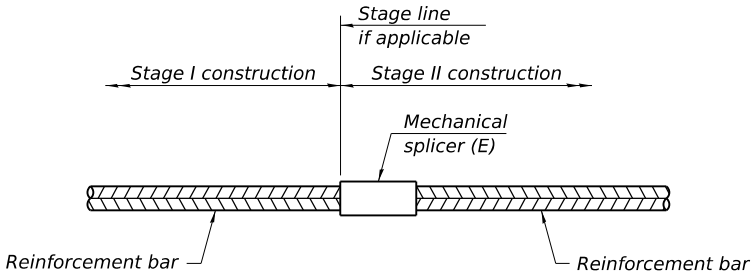


INSTALLATION AND SETTING METHODS

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

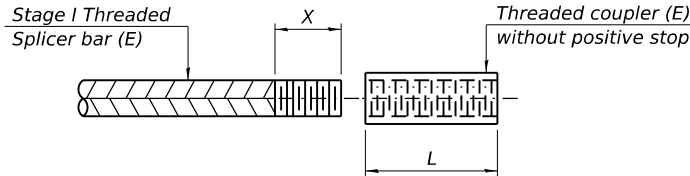
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

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

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

BSD-1

4-4-2025

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 001-0008			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					506	(10B-1)BDR,BRR-1,I	ADAMS	19	16
		CHECKED -	REVISED -					CONTRACT NO. 72E83				
	PLOT DATE = 4/27/2026	DATE -	REVISED -		SCALE:	SHEET 6	OF 9 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".



Shim plates shall not be placed under Bearing Assembly.



Cost included with Jack and Remove Existing Bearings.

$R\mathcal{D}$	(K)	24.45
$R\mathcal{L}$	(K)	35.70
$Imp.$	(K)	10.20
R (Total)	(K)	70.35



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



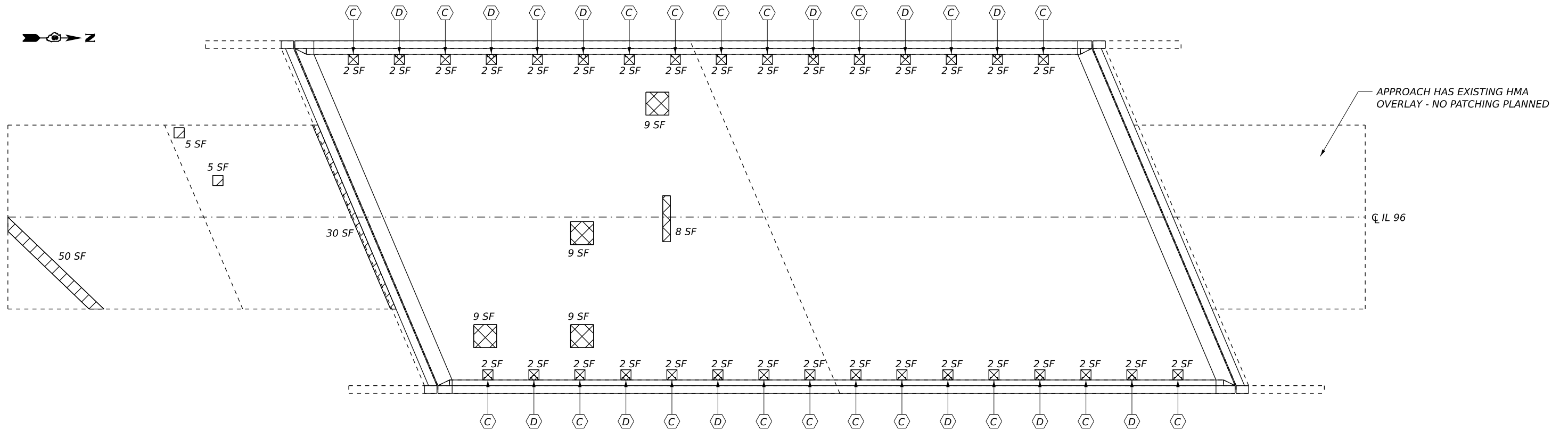
 - *Bearing Removal and Replacement.*

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
<i>Jack and Remove Existing Bearings</i>	<i>Each</i>	<i>12</i>
<i>Elastomeric Bearing Assembly, Type I</i>	<i>Each</i>	<i>12</i>
<i>Furnishing and Erecting Structural Steel</i>	<i>Pound</i>	<i>1740</i>
<i>Anchor Bolts, 1"Ø</i>	<i>Each</i>	<i>24</i>

All Steel to be galvanized.

MODEL: bridges-8 [Sheet]
FILE NAME: c:\ppl_work\pwork\duddley\m1219190\00 72E83 File Template72E83 plansheet.dgn



SLAB REPAIR PLAN

Deck Slab Repair (Full Depth, Type II)

Approach Slab Repair (Partial Depth)

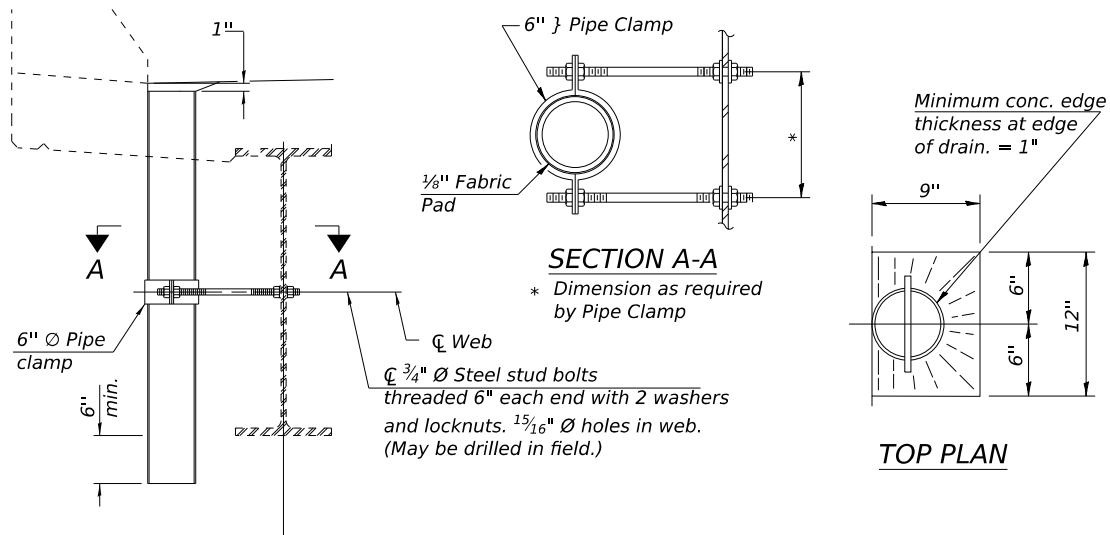
- Remove floor drain via FD patch. (Paid as Plug Existing Floor Drains.)
 - Replace floor drain via FD patch. (Paid as Floor Drains.)

Identified patching locations are estimated from a deck survey performed on 4/21/26. The patching survey is included for information only. The engineer shall lay out actual patch locations in the field.

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

BILL OF MATERIAL - THIS SHEET

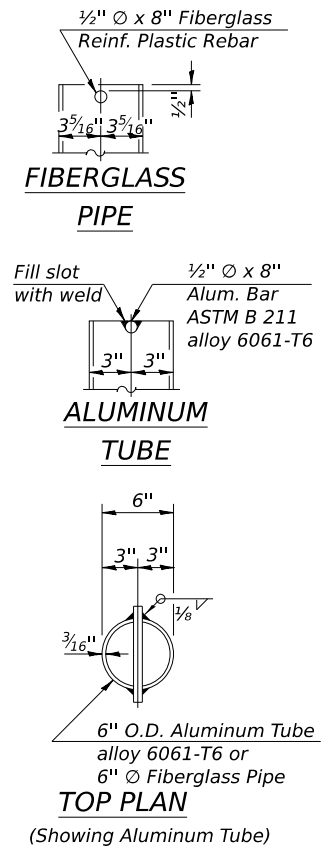
ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	12
Approach Slab Repair (Partial Depth)	Sq. Yd.	10
Floor Drains	Each	12
Plug Existing Floor Drains	Each	20



SECTION THRU PARAPET

Notes:
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.
Any unused holes remaining in the beam web shall be plugged with HS bolts.
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.

FLOOR DRAINS

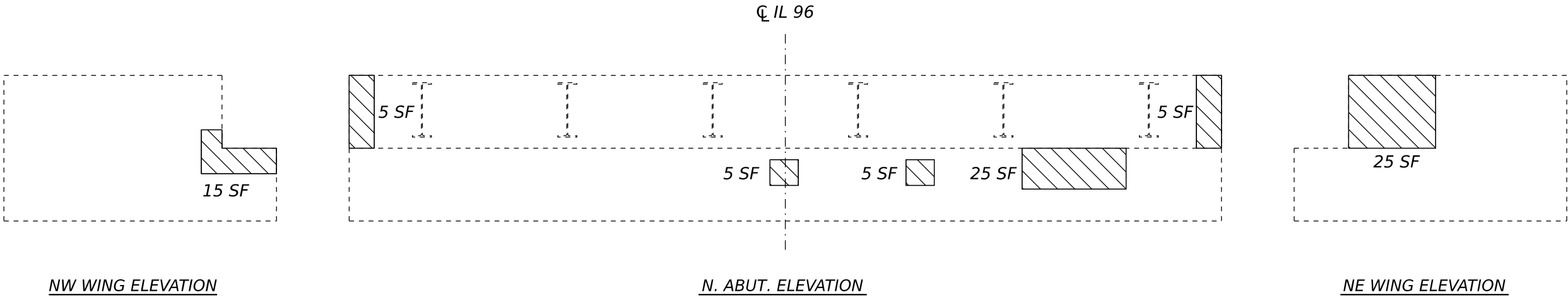


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLAB REPAIR & FLOOR DRAIN DETAILS
SN 001-0008

SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	(10B-1)BDR,BRR-1,I	ADAMS	19	18
CONTRACT NO. 72E83				
ILLINOIS FED. AID PROJECT				



 Structural Repair Of Concrete (Depth Equal To Or Less Than 5")

BILL OF MATERIAL - THIS SHEET

ITEM	UNIT	QUANTITY
Structural Repair Of Concrete (Depth Equal To Or Less Than 5")	Sq. Ft.	85

MODEL: bridge-9 (Sheet)
FILE NAME: c:\p\work\pwork\brandon.dudley\m41219190\00 72E83 File Template\72E83 plansheet.dgn

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIR SN 001-0008			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					506	(10B-1)BDR,BRR-1,I	ADAMS	19	19
		CHECKED -	REVISED -					CONTRACT NO. 72E83				
	PLOT DATE = 4/27/2026	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 9 OF 9 SHEETS		STA.		TO STA.						