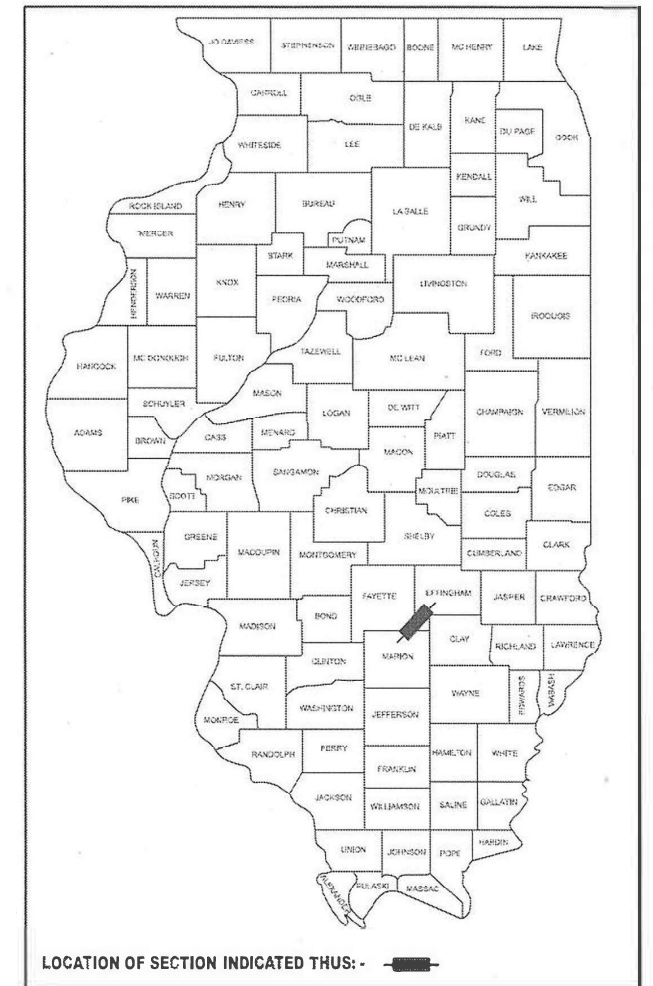


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	1
		ILLINOIS	CONTRACT NO. 74C60	

D-97-106-23

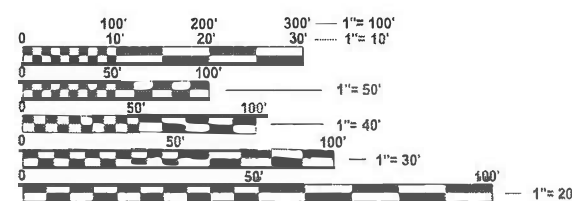
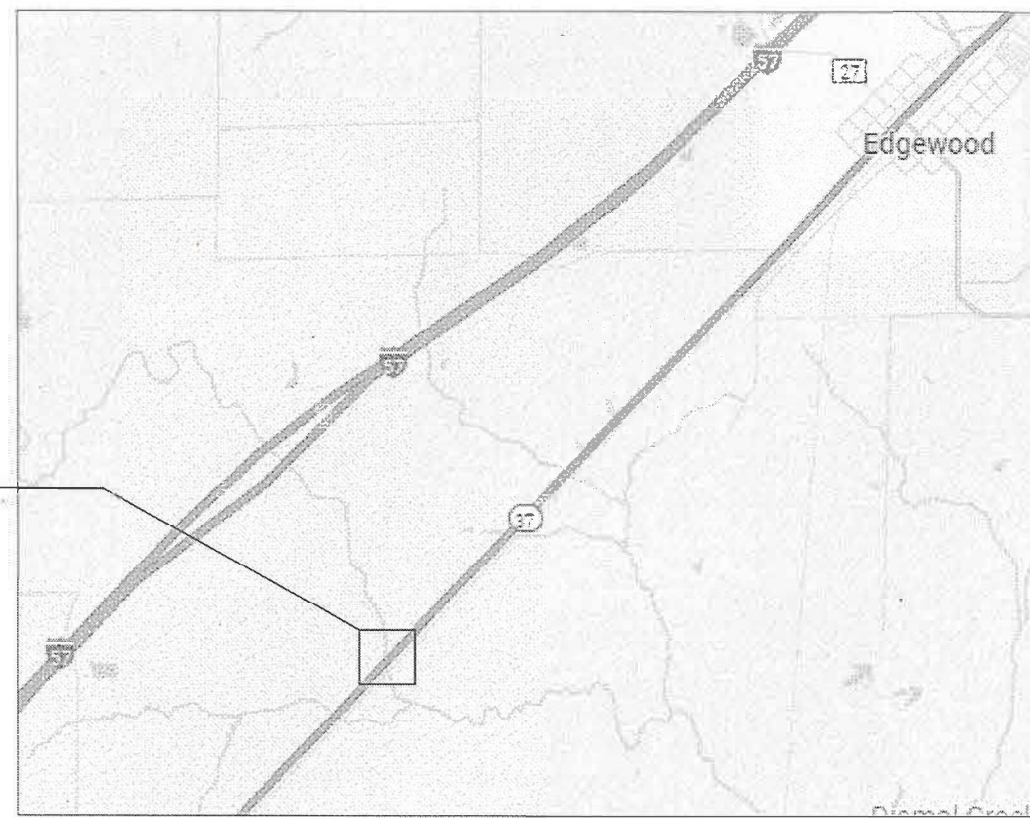


PROPOSED HIGHWAY PLANS

FAS ROUTE 2701 (IL 37)
SECTION D7 BRIDGE REPAIRS 2025-11
PROJECT STP-6153(858)
BRIDGE DECK OVERLAY, BRIDGE DECK REPAIRS
FAYETTE COUNTY

C-97-137-23

FOR INDEX OF SHEETS, SEE SHEET NO. 2
ADT = 625 (2022)



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 - JAQUELYN SEALS
PROJECT MANAGER - KYLE PRICE

CONTRACT NO. 74C60

LENGTH = 0.2 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 12 2024
Jeffrey P. Hyndley
REGIONAL ENGINEER

August 16, 2024
Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024
Gemma J. Quinn
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 PLAN SHEET
- 2 GENERAL NOTES, INDEX, STANDARDS
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6 SCHEDULE OF QUANTITIES
- 7 WIDENING
- 8-11 STAGE PLAN VIEWS
- 12-17 BRIDGE REPAIR PLANS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAS ROUTE 2701 (ILL 37) IN FAYETTE COUNTY, AT DISMAL CREEK 0.5 MILE SOUTH OF CLAY COUNTY LINE. THE WORK INCLUDED IN SECTION D7 BRIDGE REPAIRS 2025-11 CONSISTS OF BRIDGE DECK OVERLAY, BRIDGE DECK REPAIRS AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE I & II OF STANDARD 701321 SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 5".

TEMPORARY FENCE SHOULD BE PLACED PRIOR TO START OF PROJECT TO DEFINE THE AREAS CONSTRUCTION PERSONNEL AND EQUIPMENT ARE ALLOWED TO BE IN AND REMAIN IN PLACE UNTIL THE IMPROVEMENT HAS BEEN COMPLETED.

STD. NO.	DESCRIPTION
000001 - 08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001 - 02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001 - 10	PAVEMENT JOINTS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
701001 - 02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006 - 05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011 - 04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701311 - 03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701321 - 18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326 - 04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901 - 09	TRAFFIC CONTROL DEVICES
704001 - 08	TEMPORARY CONCRETE BARRIER
780001 - 05	TYPICAL PAVEMENT MARKINGS
781001 - 04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006 - 01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

LOCATION(S)	MIXTURE USE(S)	PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	MIXTURE WEIGHT	QUALITY MANAGEMENT PROGRAM	SUBLOT SIZE	MATERIAL TRANSFER DEVICE (REQUIRED?)
FLEX CONNECTOR	HMA BINDER COURSE, IL-19.0, N70	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	N70	QC/QA	3000	N/A

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	CHECKED -	REVISED -			CONTRACT NO. 74C60					
PLOT DATE = 6/26/2024	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET	OF 1 SHEETS	STA.	TO STA.	

80% FED
20% STATE

CONSTR. CODE
RURAL
BRIDGE
0047
S.N. 026-0090

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20101000	TEMPORARY FENCE	FOOT	940	940
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	188.3	188.3
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	315.7	315.7
44000100	PAVEMENT REMOVAL	SQ YD	307.4	307.4
44004250	PAVED SHOULDER REMOVAL	SQ YD	188.3	188.3
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	10.7	10.7
50300225	CONCRETE STRUCTURES	CU YD	24.4	24.4
50300300	PROTECTIVE COAT	SQ YD	591	591
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	96.1	96.1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	40260	40260
50800515	BAR SPLICERS	EACH	290	290
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6

* DENOTES SPECIALITY ITEMS

80% FED
20% STATE

CONSTR. CODE
RURAL
BRIDGE
0047
S.N. 026-0090

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1022	1022
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	131	131
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	470	470
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	600
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	600	600
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	567	567
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	6
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	430	430
Z0004552	APPROACH SLAB REMOVAL	SQ YD	242.7	242.7
Z0012111	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/2"	SQ YD	360	360

* DENOTES SPECIALITY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	3
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				RURAL
				BRIDGE
				0047
				S.N. 026-0090
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	360	360
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2	2
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	2	2
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	639	639

* DENOTES SPECIALITY ITEMS

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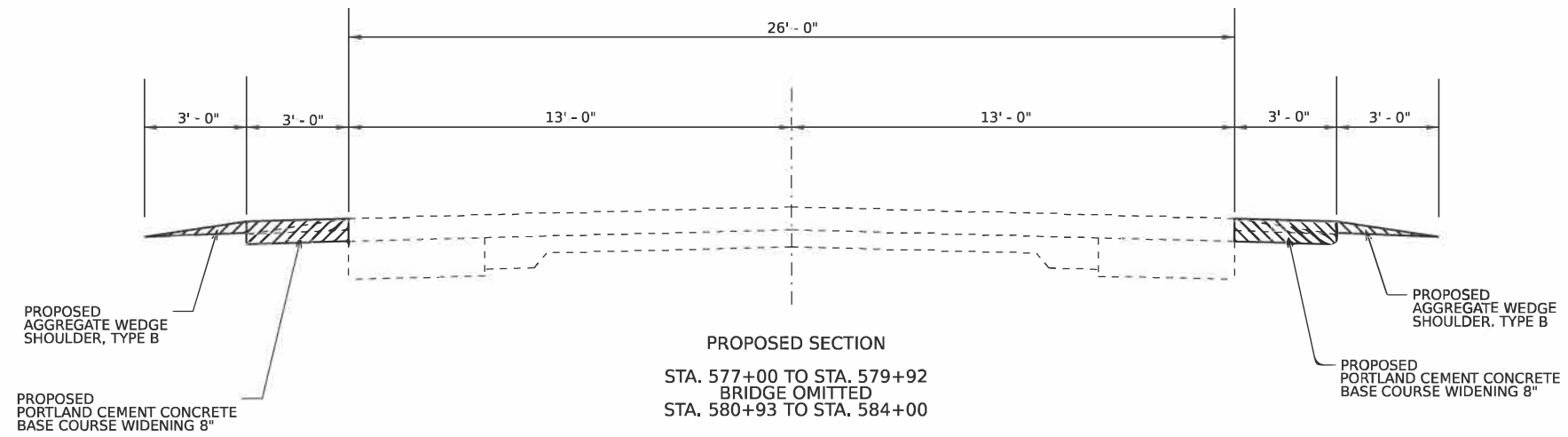
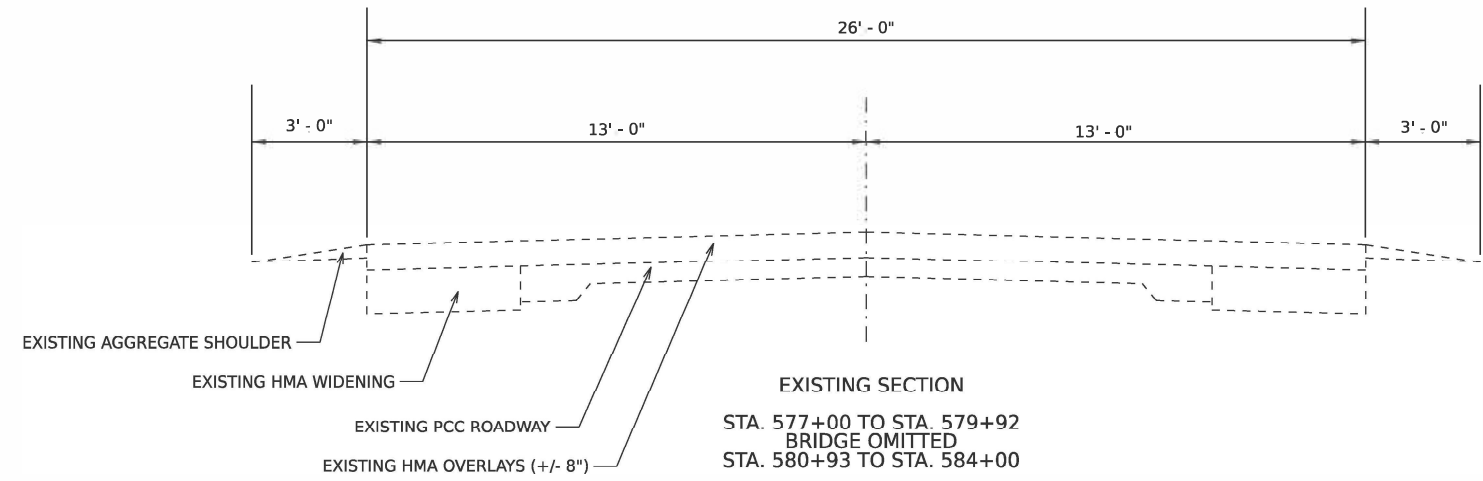
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF 2 SHEETS STA. TO STA.

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CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				

SECTION VIEWS



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PLOT DATE = 6/26/2024	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: SHEET OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	5
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

PAVEMENT MARKINGS

STATION	TO	STATION	LOCATION	PAVEMENT MARKING BLACKOUT TAPE, 5"	SHORT TERM PAVEMENT MARKING REMOVAL	SHORT TERM PAVEMENT MARKING	PAINT PAVEMENT MARKING - LINE 4"	TEMPORARY RUMBLE STRIPS	TEMPORARY BRIDGE TRAFFIC SIGNALS	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	NOTES
				70107005	70300150	70300100	78001110	70106700	70106500	78300200	78100100	
				FT	SQ FT	FT	FT	EACH	EACH	EACH	EACH	
575+75		577+80	CENTERLINE	60	25							SKIPS
583+14		585+19	CENTERLINE	60	25							SKIPS
578+21		582+72	EOP RT	451	188							STAGE 1
578+21		582+72	EOP LT	451	188							STAGE 2
579+17		581+69	CENTERLINE		17	50	63			6	6	SKIPS
579+17		581+69	EOP RT		13	40	252					EDGE
579+17		581+69	EOP LT		13	40	252					EDGE
			SOUTH END					3				
			NORTH END					3				
									1			
TOTALS				1022	470	131	567	6	1	6	6	

TEMP FENCE

STATION	TO	STATION	LOCATION	TEMPORARY FENCE
				20101000
				FOOT
577+50.00		580+00.00	LT SHOULDER	250.0
577+50.00		579+70.00	RT SHOULDER	220.0
581+20.00		583+40.00	LT SHOULDER	220.0
580+90.00		583+40.00	RT SHOULDER	250.0
TOTALS				940.0

TEMP CONCRETE BARRIER

STATION	TO	STATION	LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	NOTES
				70400100	70400200	70600250	70600350	
				FT	FT	EACH	EACH	
577+44		583+50	CL	600.0		2		STAGE 1 (48 PCS)
577+44		583+50	CL		600.0		2	STAGE 2 (48 PCS)
TOTALS				600.0	600.0	2	2	

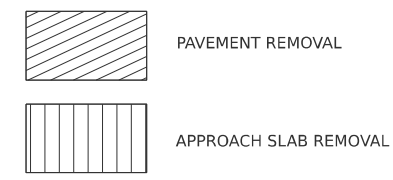
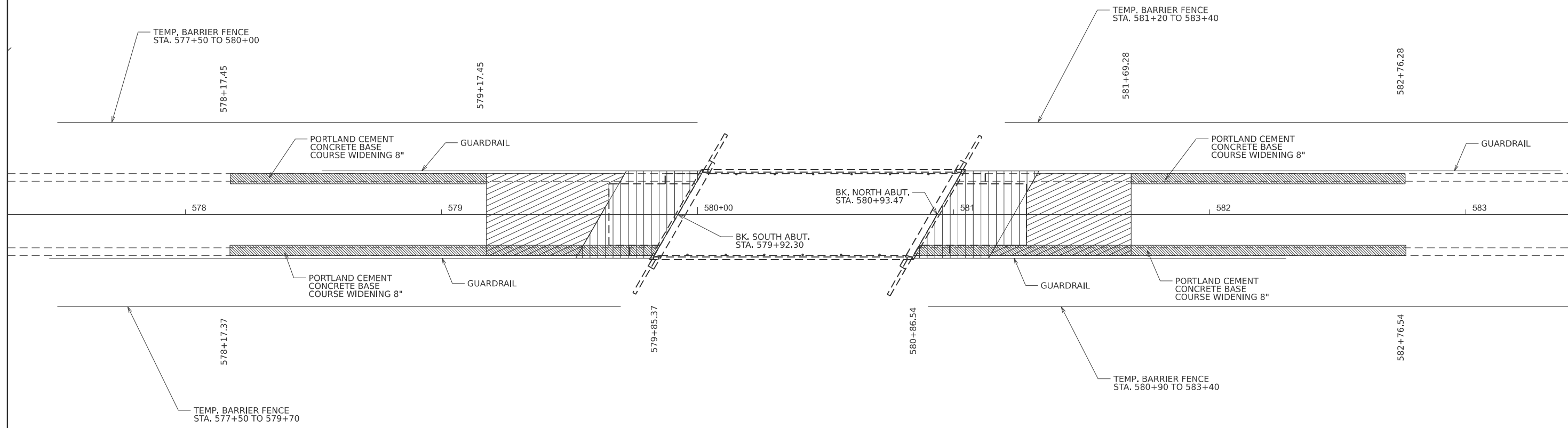
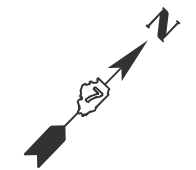
SHOULDERS

STATION	TO	STATION	LOCATION	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	PAVED SHOULDER REMOVAL	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	APPROACH SLAB REMOVAL	PAVEMENT REMOVAL	AGGREGATE WEDGE SHOULDER, TYPE B
				35400300	44004250	42000070	Z0004552	44000100	48102100
				SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TON
578+17.45		579+17.45	LT SHOULDER	33.3	33.3				
578+17.37		579+85.37	RT SHOULDER	56.0	56.0				
581+69.28		582+76.28	LT SHOULDER	35.7	35.7				
580+86.54		582+76.54	RT SHOULDER	63.3	63.3				
579+17.45		579+62.30	BOTH LANES					158.0	
579+62.30		579+92.30	BOTH LANES				115.3		
580+93.47		581+28.40	BOTH LANES				127.4		
581+28.40		581+69.28	BOTH LANES					149.4	
579+17.45		579+61.84	BOTH LANES			157.8			
581+24.89		581+69.28	BOTH LANES			157.8			
579+17.45		580+01.53	LT SHOULDER						3.0
581+02.70		581+69.28	LT SHOULDER						2.4
579+17.45		579+83.06	RT SHOULDER						2.3
580+84.23		581+69.28	RT SHOULDER						3.0
TOTALS				188.3	188.3	315.7	242.7	307.4	10.7

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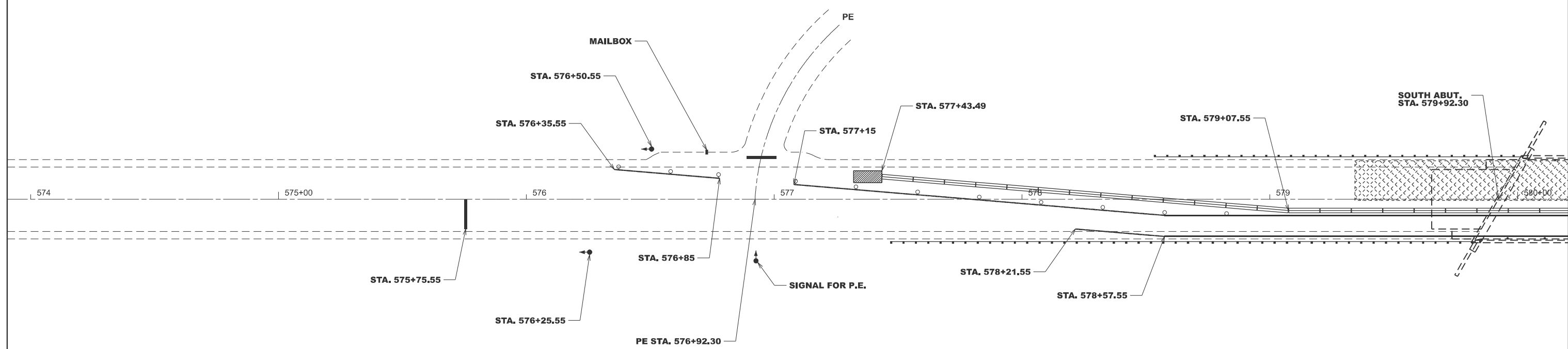
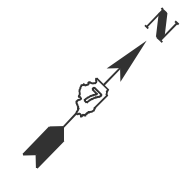
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	7
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				



- TRAFFIC BARREL
- ▬ TEMPORARY CONCRETE BARRIER
- ←● TRAFFIC SIGNAL
- ▬ STOP BAR
- ▨ IMPACT ATTENUATOR

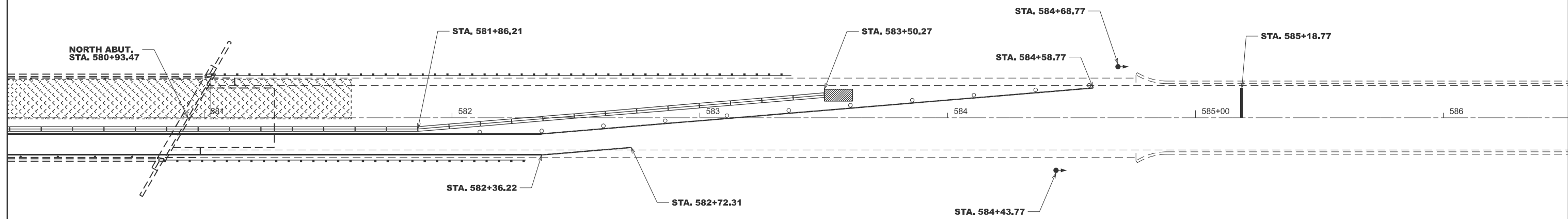
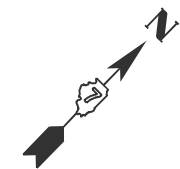
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN VIEW			
STAGE 1			
SCALE:	SHEET	OF 4 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	8
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				



- TRAFFIC BARREL
- ▬ TEMPORARY CONCRETE BARRIER
- ◄● TRAFFIC SIGNAL
- ▬ STOP BAR
- ▨ IMPACT ATTENUATOR

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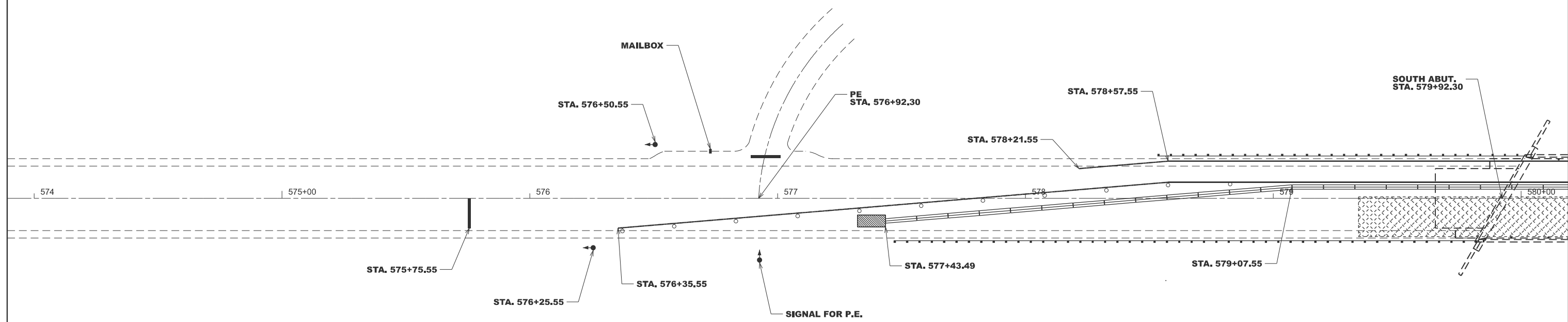
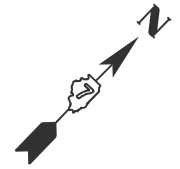
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW
STAGE 1**

SCALE: SHEET OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	9
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				



-  TRAFFIC BARREL
-  TEMPORARY CONCRETE BARRIER
-  TRAFFIC SIGNAL
-  STOP BAR
-  IMPACT ATTENUATOR

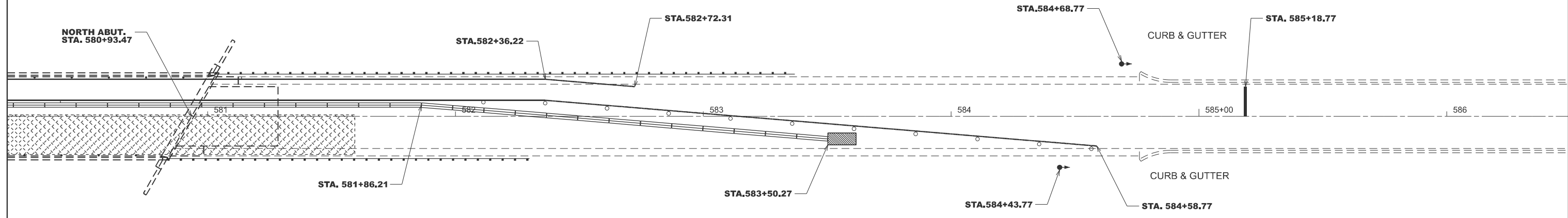
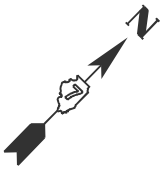
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PLOT DATE = 7/10/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN VIEW	
STAGE 2	
SCALE:	SHEET OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	10
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				



-  TRAFFIC BARREL
-  TEMPORARY CONCRETE BARRIER
-  TRAFFIC SIGNAL
-  STOP BAR
-  IMPACT ATTENUATOR

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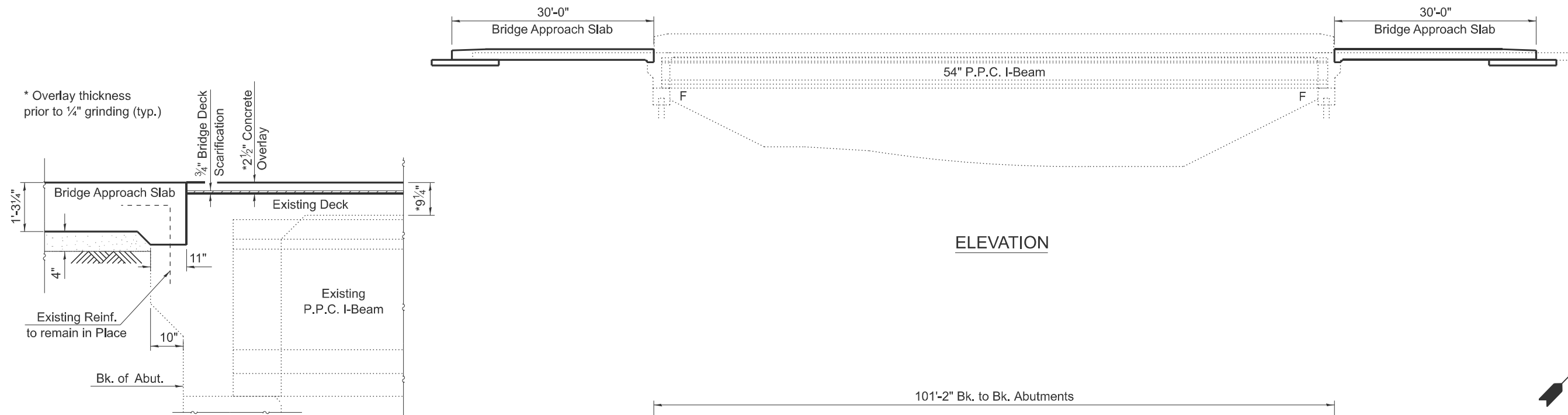
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

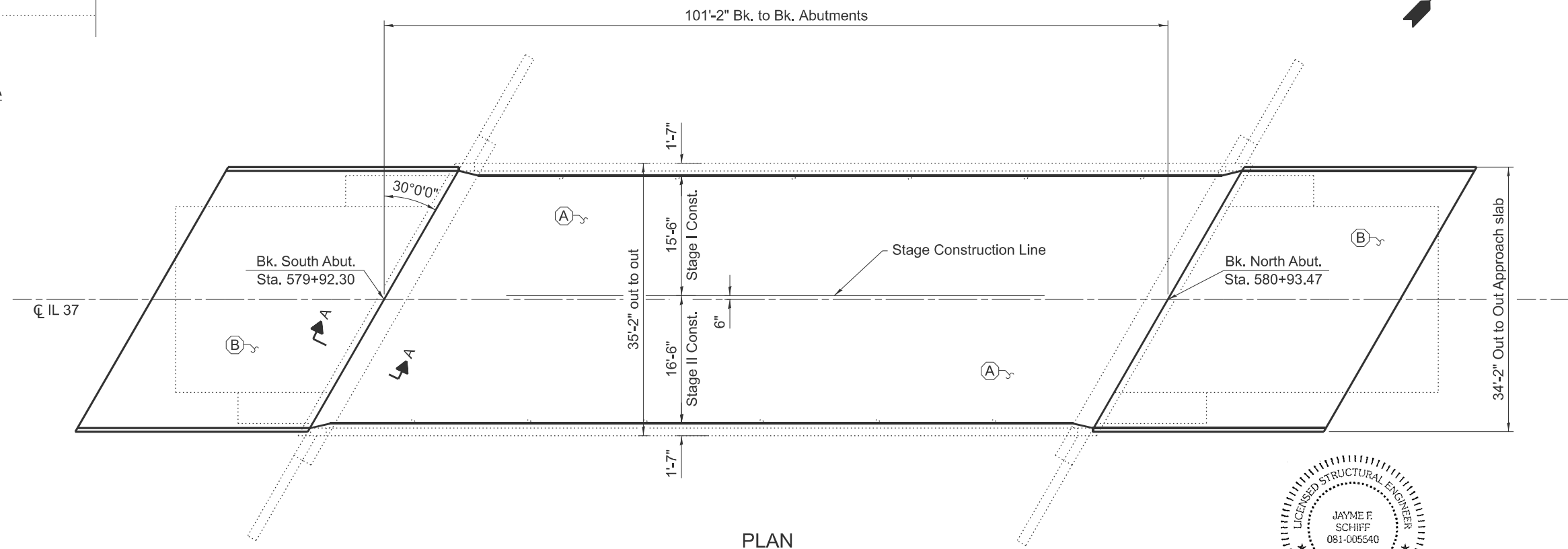
PLAN VIEW	
STAGE 2	
SCALE:	SHEET OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	11
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				

Structure 026-0090 carries IL 37 over Dismal Creek. The single span, P.P.C I-beam structure was built in 1985. The proposed project consists of scarification, full depth deck patching, concrete overlay, & new approaches.



SECTION A-A



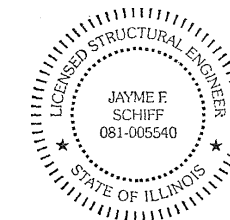
DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

$f_y = 60,000$ psi (Reinforcement)

- (A) - Bridge Deck Scarification 3/4", Deck Patching, Bridge Deck Fly Ash or GGBF Slag Concrete Overlay 2 1/2", Diamond Grinding (Bridge Section), & Bridge Deck Grooving (Longitudinal)
- (B) - Remove Existing Approaches & Construct New Bridge Approach slabs, Diamond Grinding(Bridge Section), & Bridge Deck Grooving (Longitudinal)



EXPIRES 11-30-2024
Jayme F. Schiff

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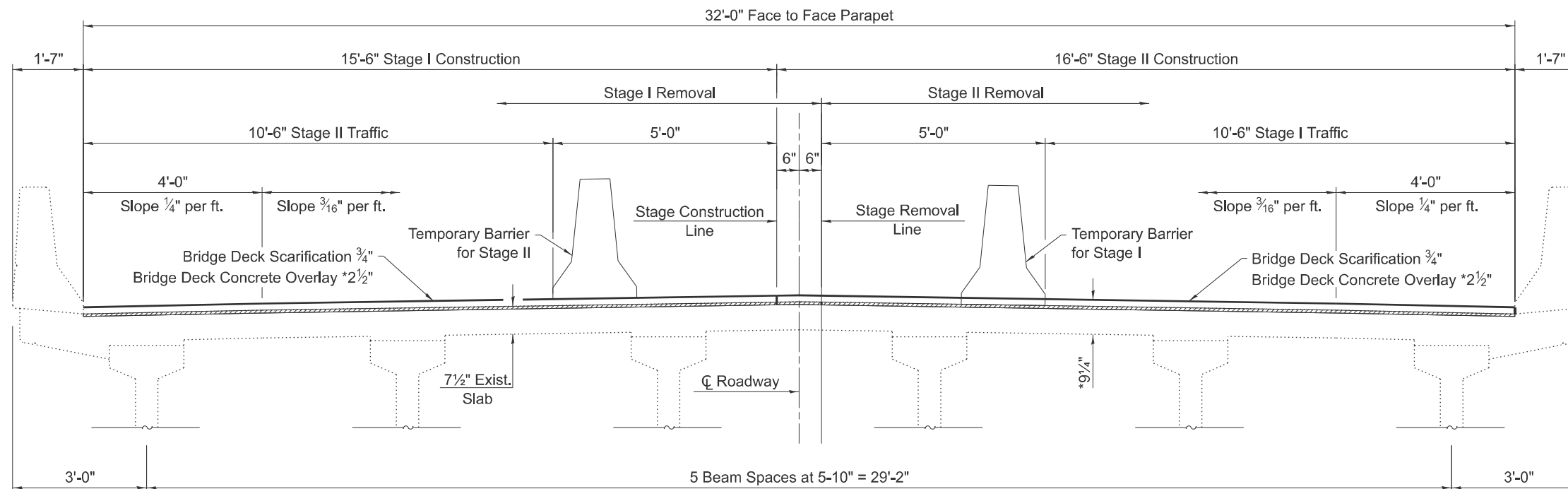
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PLOT DATE = 7/12/2024	CHECKED - D. Macklin	REVISED -
	DATE - October 2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION
 S.N. 026-0090**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	12
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				



STAGE CONSTRUCTION DETAIL

Looking North

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans 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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement Bars designated (E) shall be epoxy coated.

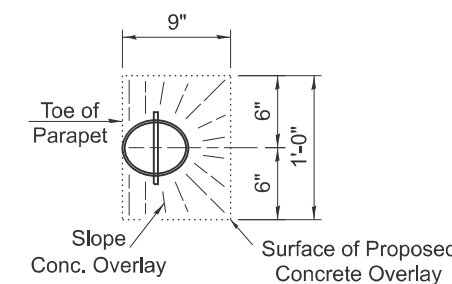
Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

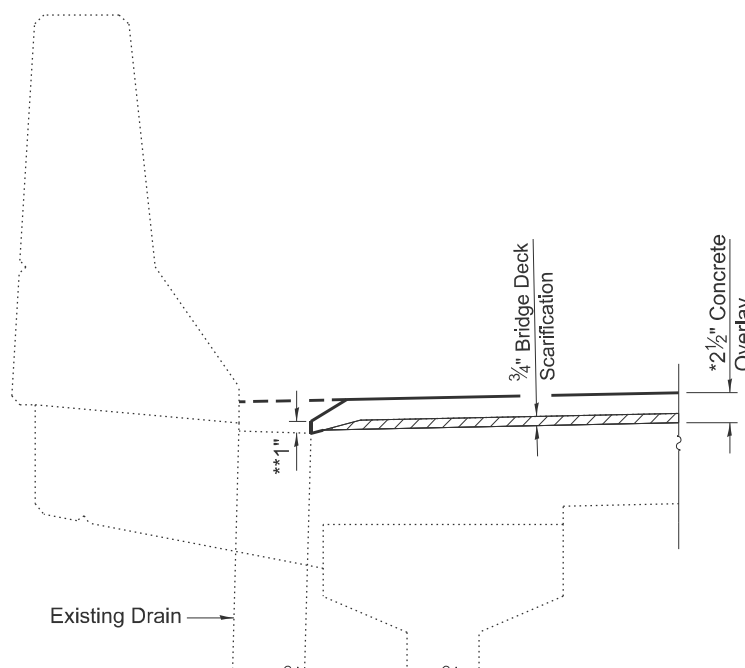
Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours shall have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650psi.

Note: Hatched area indicates removal.

* Overlay thickness prior to 1/4" grinding (Typ.)



TOP PLAN OF FLOOR DRAIN



FLOOR DRAIN PRESERVATION

** Minimum thickness of overlay at edge of drain = 1"

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Concrete Superstructure (Approach Slab)	Cu. Yd.	96.1
Concrete Structures	Cu. Yd.	24.4
Bridge Deck Scarification, 3/4"	Sq. Yd.	360
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/2"	Sq. Yd.	360
Diamond Grinding (Bridge Section)	Sq. Yd.	639
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	430
Protective Coat	Sq. Yd.	591
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	2.0
Reinforcement Bars, Epoxy Coated	Pound	40,260
Bar Splicers	Each	290

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 DRAWING: ...
 DATE: ...

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PLOT SCALE = \$SCALE\$	CHECKED - D. Macklin	REVISED -
PLOT DATE = 7/12/2024	DATE - October 2023	REVISED -

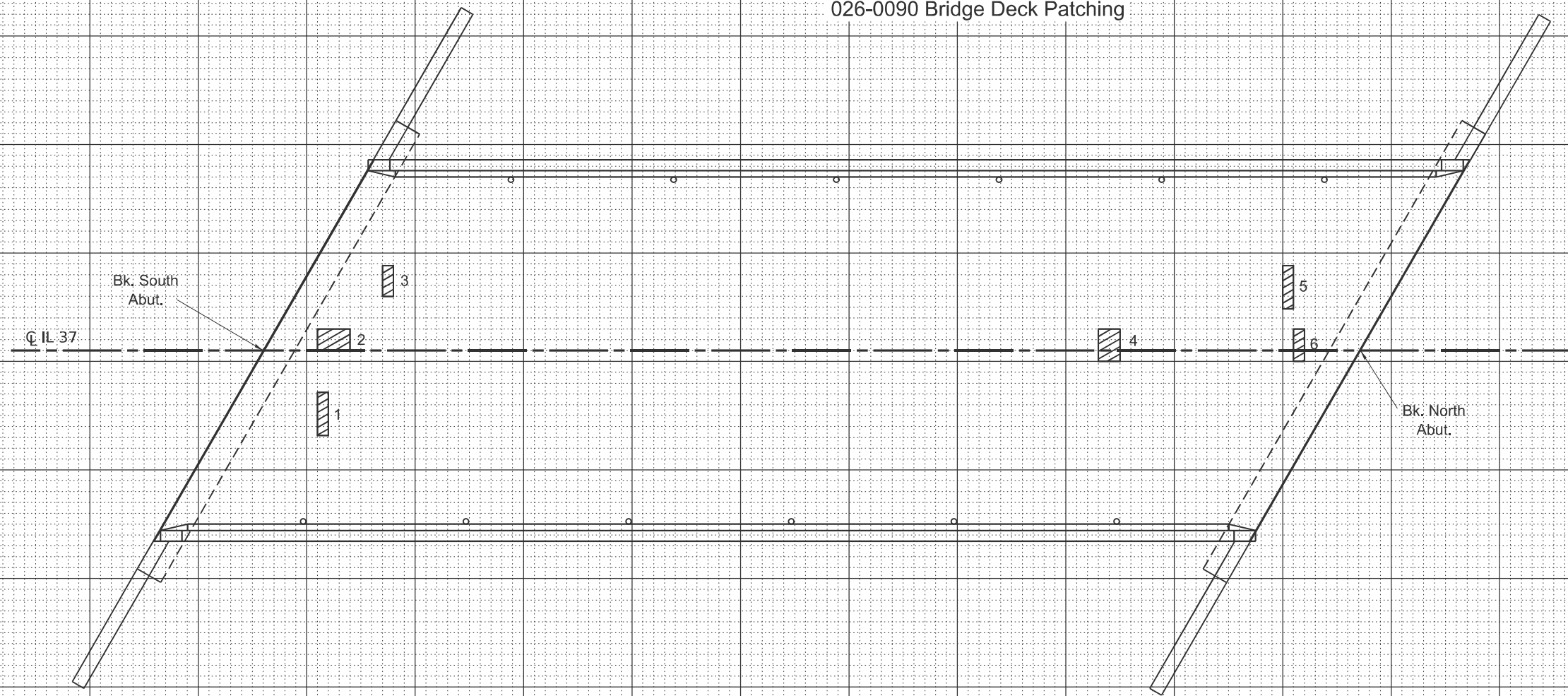
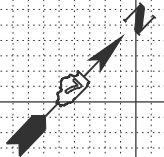
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION, GENERAL NOTES, &
BILL OF MATERIALS S.N. 026-0090**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	13
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				

026-0090 Bridge Deck Patching



PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
1	1.0	4.0	0.4	
2	3.0	2.0		0.7
3	1.0	3.0	0.3	
4	2.0	3.0		0.7
5	1.0	4.0	0.4	
6	1.0	3.0	0.3	
TOTALS			1.6	1.3
ROUND TO:			2.0	2.0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 8-17-23
 SURVEY BY: DPM, DRL, & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:

DECK SLAB REPAIR (FULL DEPTH TYPE I)
 2.0 SQ YD

DECK SLAB REPAIR (FULL DEPTH TYPE II)
 2.0 SQ YD

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 PLOT SCALE: 1/8"=1'-0"
 PLOT AREA: 11.56 SQ FT

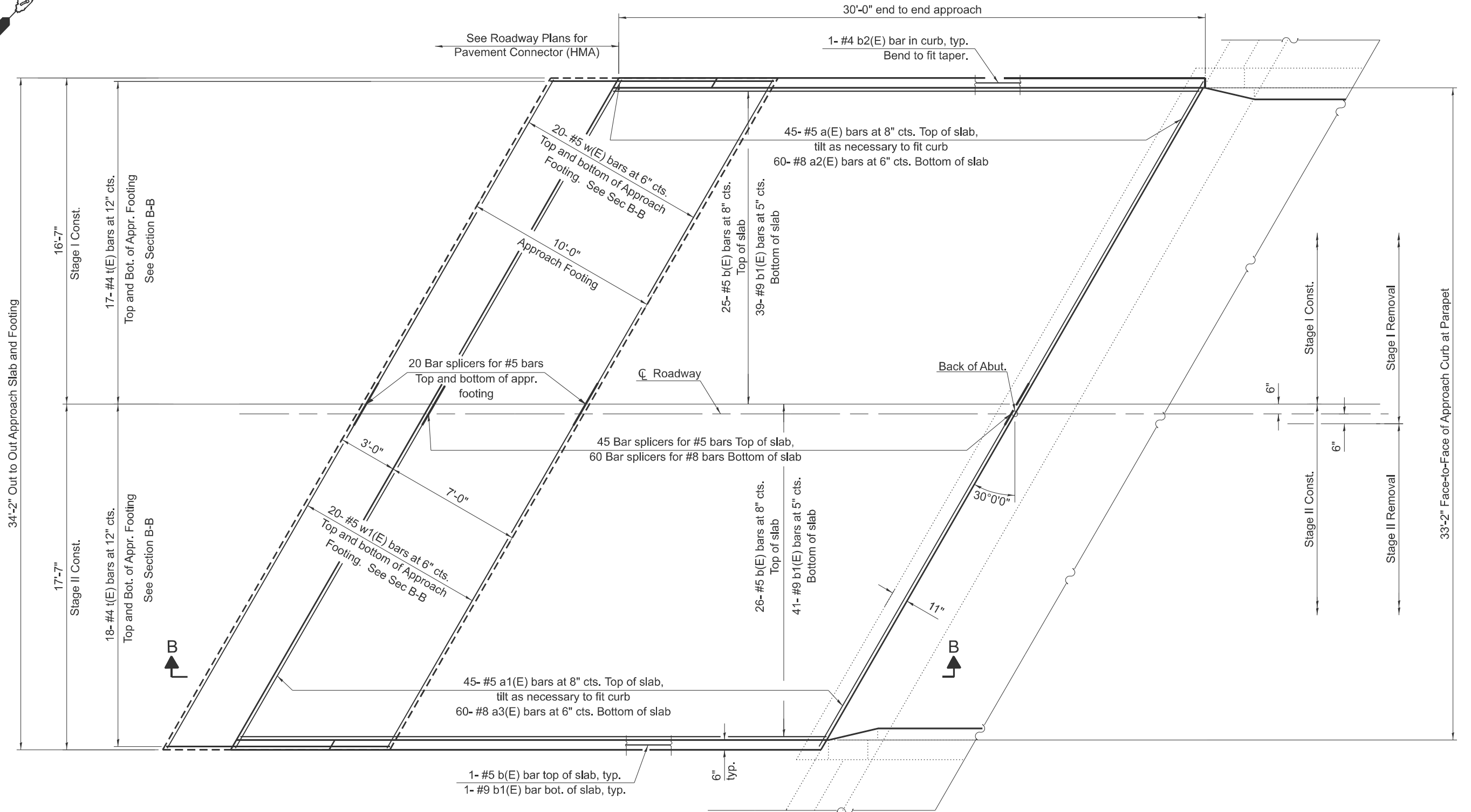
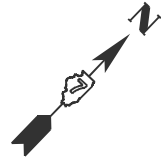
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PLOT DATE = 7/12/2024	CHECKED - D. Macklin	REVISED -
	DATE - October 2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK PATCHING
 S.N. 026-0090**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	14
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				



APPROACH PLAN

South Approach Shown
North Approach Similar

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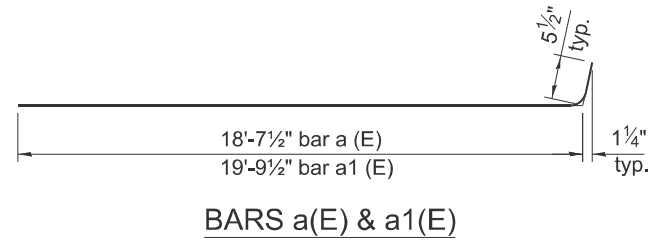
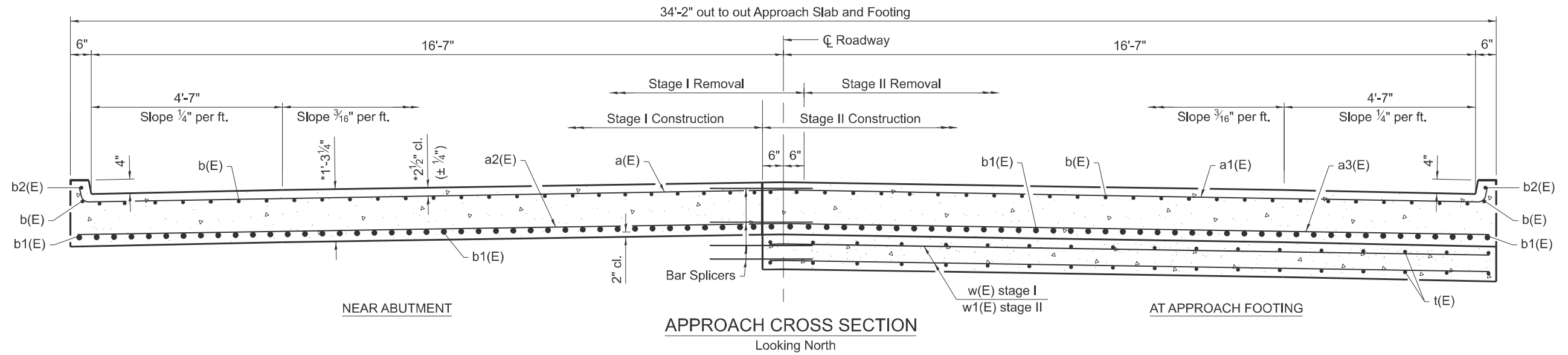
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PLOT DATE = 7/12/2024	DATE - October 2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

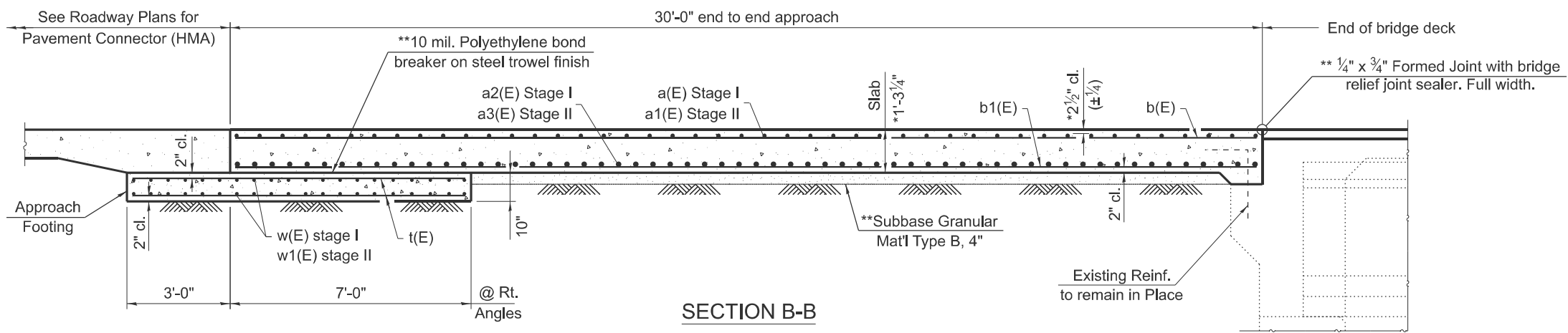
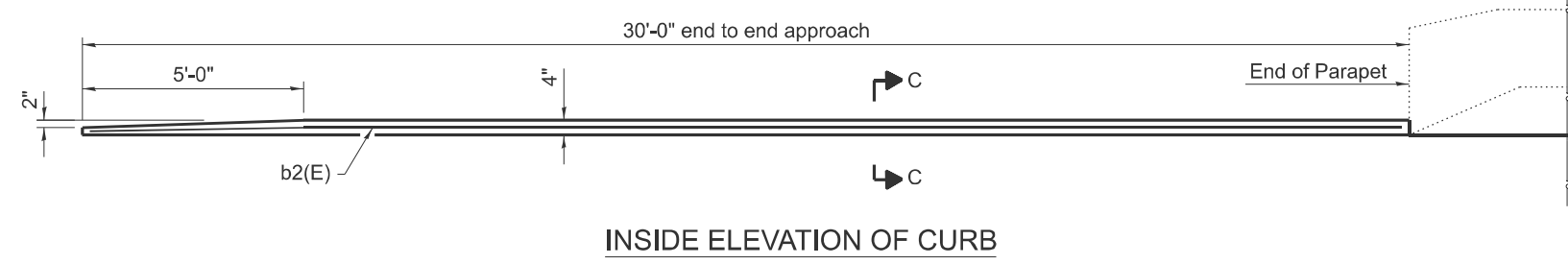
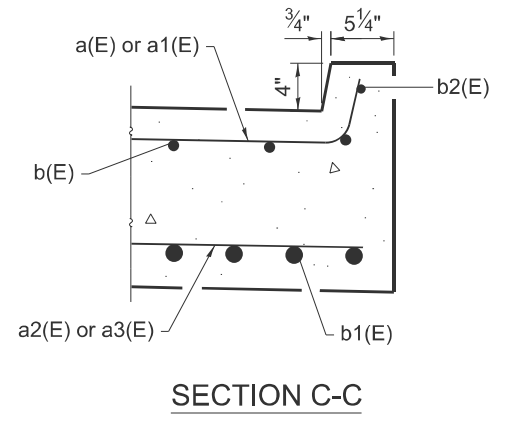
BRIDGE APPROACH SLAB DETAILS – SHEET 1 OF 2
S.N. 026-0090

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	15
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				



Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.



* Thickness prior to 1/4" grinding (Typ.)
 ** Cost included with Concrete Superstructure (Approach Slab)

BILL OF MATERIALS - TWO APPROACHES

Bar	No.	Size	Length	Shape
a(E)	90	5	19'-1"	—
a1(E)	90	5	20'-3"	—
a2(E)	120	8	18'-9"	—
a3(E)	120	8	19'-11"	—
b(E)	106	5	29'-8"	—
b1(E)	164	9	29'-8"	—
b2(E)	4	4	29'-8"	—
t(E)	140	4	11'-2"	—
w(E)	80	5	18'-9"	—
w1(E)	80	5	19'-11"	—
ITEM		UNIT	QUANTITY	
Concrete Structures		Cu. Yd.	24.4	
Concrete Superstructure (Approach Slab)		Cu. Yd.	96.1	
Reinforcement Bars, Epoxy Coated		Pound	40,260	
Bar Splicers		Each	290	

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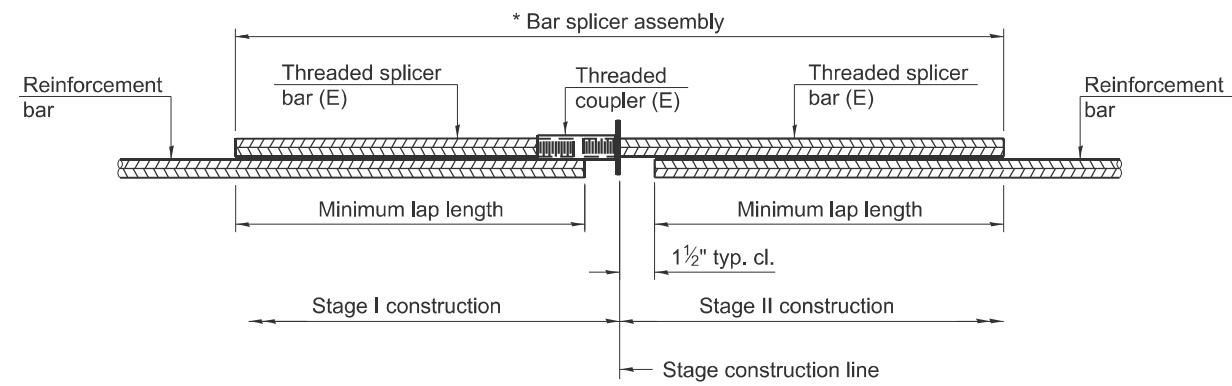
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	DATE - October 2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS - SHEET 2 OF 2
 S.N. 026-0090**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	16
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				



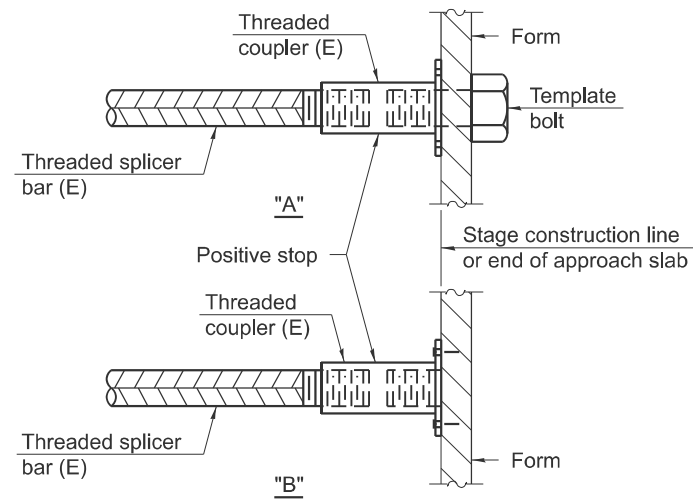
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar Size	No. assemblies required	Minimum lap length
Approach	#5	90	3'-0"
Approach	#8	120	4'-9"
Approach Footing	#5	80	3'-4"

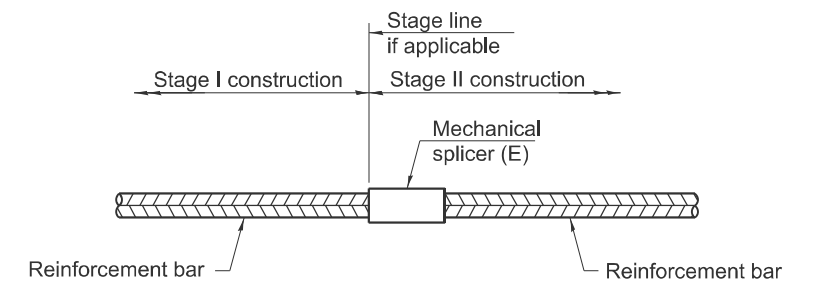


INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar Size	No. assemblies required

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

BSD-1

5-15-2023

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 S.N. 026-0090

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2701	D7 BRIDGE REPAIRS 2025-11	FAYETTE	17	17
CONTRACT NO. 74C60				
ILLINOIS FED. AID PROJECT				

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

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