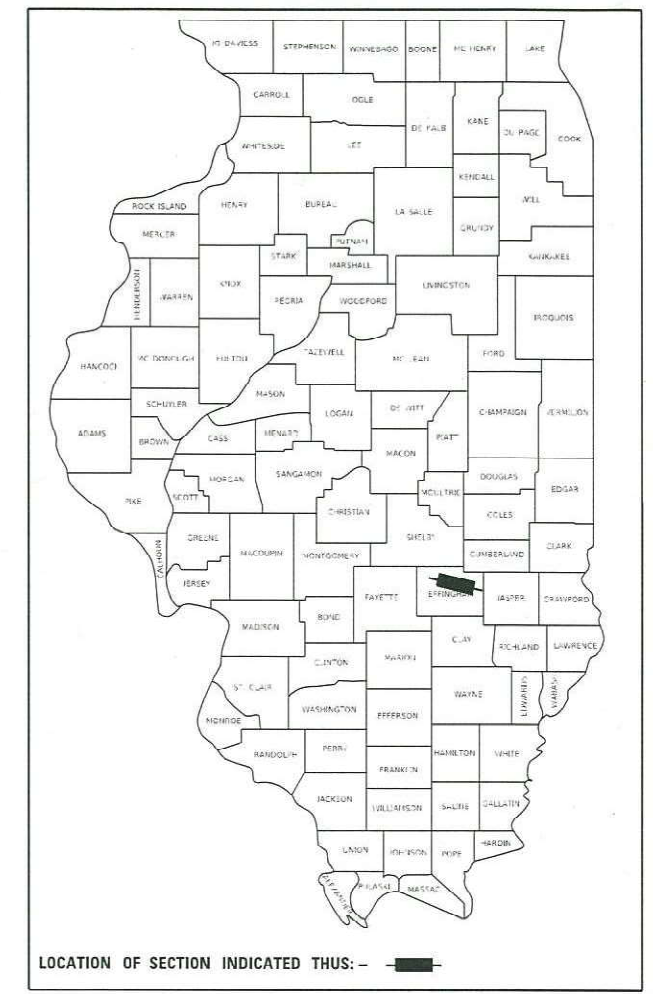


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	1
		ILLINOIS	CONTRACT NO. 74A69	

D-97-100-21



**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 57/70 (I-57/70)
D7 BRIDGE REPAIRS 2023-1
PROJECT NHPP-IKK2(707)
BRIDGE REPAIR
EFFINGHAM COUNTY

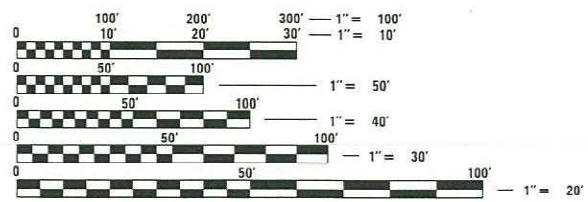
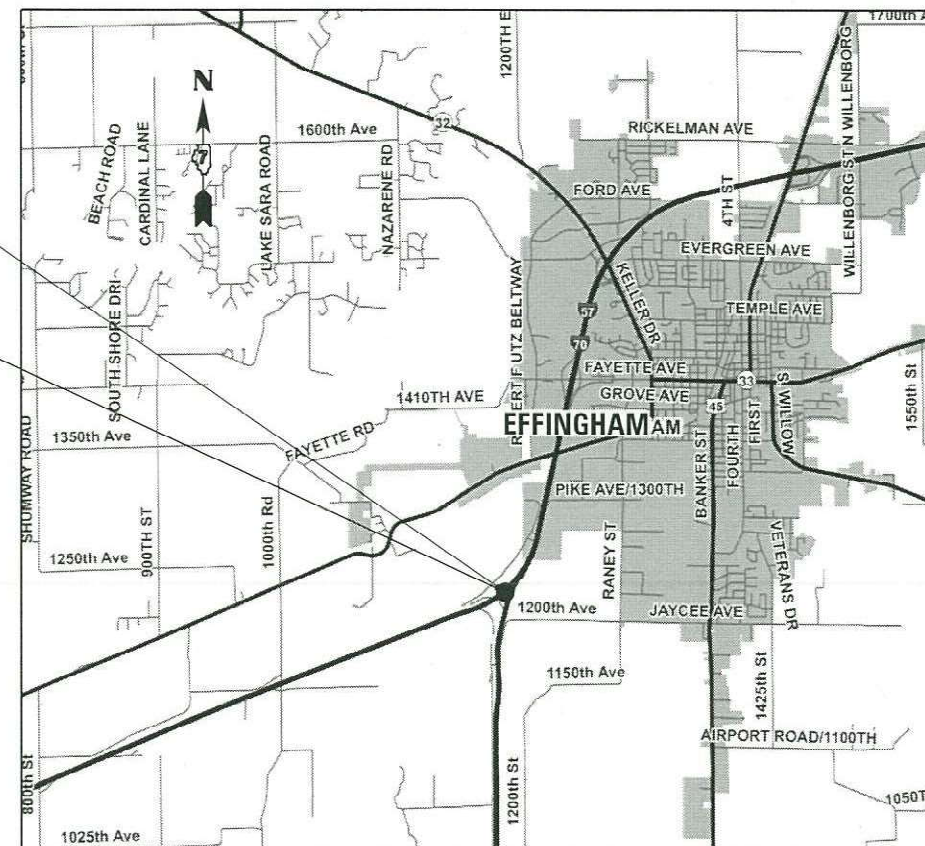
C-97-169-21

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT (2019) = SN 025-0001: 10,397, SN 025-0018: 50
% TRUCKS = SN 025-0001: 66.52%, SN 025-0018: 9.00%

LOCATION OF PROJECT:
SN 025-0001
CARRIES SB I-57 OVER EB I-70

LOCATION OF PROJECT:
SN 025-0018
CARRIES WB I-70 RAMP F OVER SB I-57 & EB I-70



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: DEBRA BARRETT
PROJECT MANAGER: LEAH HILLE

CONTRACT NO. 74A69

GROSS LENGTH = 767.0 FT. = 0.15 MILE
NET LENGTH = 767.0 FT. = 0.15 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 31, 2022
Jeffrey P. Myrland
REGIONAL ENGINEER

October 14, 2022
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAI 57/70, AT THE TRI-LEVEL, SOUTHWEST OF EFFINGHAM.

THE WORK ON THIS PROJECT CONSISTS OF EXPANSION JOINT REPLACEMENT, BRIDGE DECK PATCHING, SCARIFICATION, BRIDGE DECK OVERLAY, NEW APPROACHES, DIAMOND GRINDING, AND SLOPEWALL REPAIR.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE HMA SURFACE COURSE.

WHEN APPLYING SHORT TERM PAVEMENT MARKINGS, TEMPORARY TAPE SHALL BE USED ON THE SURFACE.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE THE SAME DEPTH AS THE HOT-MIX ASPHALT SURFACE REMOVAL. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

SHEET NO. ITEM

1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STANDARDS, AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES
6	SN 025-0001 PLAN SHEET
7	SN 025-0018 PLAN SHEET
8-13	SN 025-0001 STAGING PLANS
14	SN 025-0018 DETOUR SHEET
15-30	SN 025-0001 REPAIR SHEETS
31-43	SN 025-0018 REPAIR SHEETS
44-45	DISTRICT 7 DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 45:

STANDARD DESCRIPTION

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
420001-10	PAVEMENT JOINTS

APPLICATION RATES

THE FOLLOWING APPLICATION RATES WERE USED IN CALCULATING PLAN QUANTITIES AND HAVE BEEN INCLUDED FOR REFERENCE:

BITUMINOUS MATERIALS (TACK COAT)	0.5 LB/SQ FT (ON MILLED SURFACES)
	0.025 LB/SQ FT (ON HMA LIFTS)
RIP-RAP	1.485 TONS/CU YD
AGGREGATE SURFACE COURSE AND SHOULDER	2.05 TON/CU YD

MIXTURE REQUIREMENTS

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?)
MAINLINE	POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90	SBS PG 70-22	4.0% @ N=90	IL - 9.5	MIXTURE D	N90	QC/QA	N/A	N/A
HMA CONNECTOR	POLYMERIZED HMA BINDER COURSE, IL-19.0, N90	SBS PG 70-22	4.0% @ N=90	IL - 19.0	N/A	N90	QC/QA	N/A	N/A

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES, INDEX OF SHEETS & LIST OF STANDARDS			
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	2
CONTRACT NO. 74A69				
ILLINOIS		FEED PROJECT		

URBAN

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013 90% FEDERAL 10% STATE		
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	73	73		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	400	400		
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	74	74		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	116	116		
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	129	129		
50102400	CONCRETE REMOVAL	CU YD	88.8	88.8		
50104650	SLOPE WALL REMOVAL	SQ YD	110	110		
50157300	PROTECTIVE SHIELD	SQ YD	405	405		
50300225	CONCRETE STRUCTURES	CU YD	32	32		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	92.2	92.2		
50300300	PROTECTIVE COAT	SQ YD	1710	1710		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	100	100		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	55720	55720		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013 90% FEDERAL 10% STATE		
50800515	BAR SPLICERS	EACH	350	350		
51100300	SLOPE WALL 6 INCH	SQ YD	110	110		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	368	368		
67100100	MOBILIZATION	L SUM	1	1		
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	2		
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2		
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1		
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1		
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1131	1131		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	475	475		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	725	725		

REV. - MS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NO SCALE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A69	

URBAN

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013 90% FEDERAL 10% STATE		
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	24	24		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	725	725		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1		
* 78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 6"	FOOT	1603	1603		
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	1603	1603		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11	11		
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SO YD	1052	1052		
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	2		
Z0004552	APPROACH SLAB REMOVAL	SO YD	347	347		
Z0012111	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/2"	SO YD	1156	1156		
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SO YD	570	570		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013 90% FEDERAL 10% STATE		
Z0012142	BRIDGE DECK SCARIFICATION 2 1/4"	SO YD	586	586		
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	15	15		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	11	11		
Z0016702	DETOUR SIGNING	L SUM	1	1		
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SO YD	1420	1420		
Z0038115	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 1/2"	SO YD	129	129		

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NO SCALE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A69	

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PAVEMENT MARKING SCHEDULE			78004630 PERFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 6", YELLOW	78004630 PERFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 6", WHITE	78011035 GROOVING FOR RECESSED PAVEMENT MARKING 7"
STATION TO STATION			FOOT	FOOT	FOOT
5028C+11.25	TO	5030C+86.98	275.7	344.7	621.5
4F+68.88	TO	9F+59.26	490.4	490.4	981.5
TOTALS:			1603.0		1603.0

BRIDGE STAGING SCHEDULE							
LOCATION	70107005 PAVEMENT MARKING BLACKOUT TAPE, 5"	70300150 SHORT TERM PAVEMENT MARKING REMOVAL	70400100 TEMPORARY CONCRETE BARRIER	70400125 PINNING TEMPORARY CONCRETE BARRIER	70400200 RELOCATE TEMPORARY CONCRETE BARRIER	70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
	FOOT	SQ FT	FOOT	EACH	FOOT	EACH	EACH
STAGE 1: SN 025-0001	737.6	310.0	725.0	12.0	-	1.0	-
STAGE 2: SN 025-0001	393.2	165.0	-	12.0	725.0	-	1.0
TOTALS:	1131.0	475.0	725.0	24.0	725.0	1.0	1.0

SN 025-0001 PAVEMENT SCHEDULE				
STATION TO STATION			42000070 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	Z0004552 APPROACH SLAB REMOVAL
			SQ YD	SQ YD
5028C+11.25	TO	5028C+26.25	57.8	57.8
5028C+26.25	TO	5028C+56.25	-	115.7
5030C+41.98	TO	5030C+71.98	-	115.7
5030C+71.98	TO	5030C+86.98	57.8	57.8
TOTALS:			116.0	347.0

SN 025-0018 PAVEMENT SCHEDULE						
STATION TO STATION			40600982 HMA SURFACE REMOVAL, BUTT JOINT	40604164 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	44000151 HMA SURFACE REMOVAL, 1/2"	Z0038115 PCC SURFACE REMOVAL, 1/2"
			SQ YD	TON	SQ YD	SQ YD
4F+68.88	TO	5F+38.88	199.6	22.4	-	-
5F+38.88	TO	5F+83.88	-	14.4	-	129
8F+44.26	TO	8F+89.26	-	14.4	129	-
8F+89.26	TO	9F+59.26	199.6	22.4	-	-
TOTALS:			400.0	74.0	129.0	129.0

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A69	

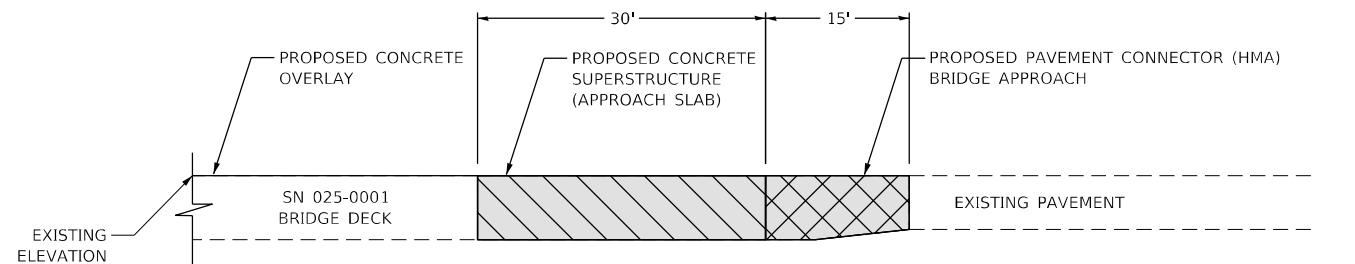
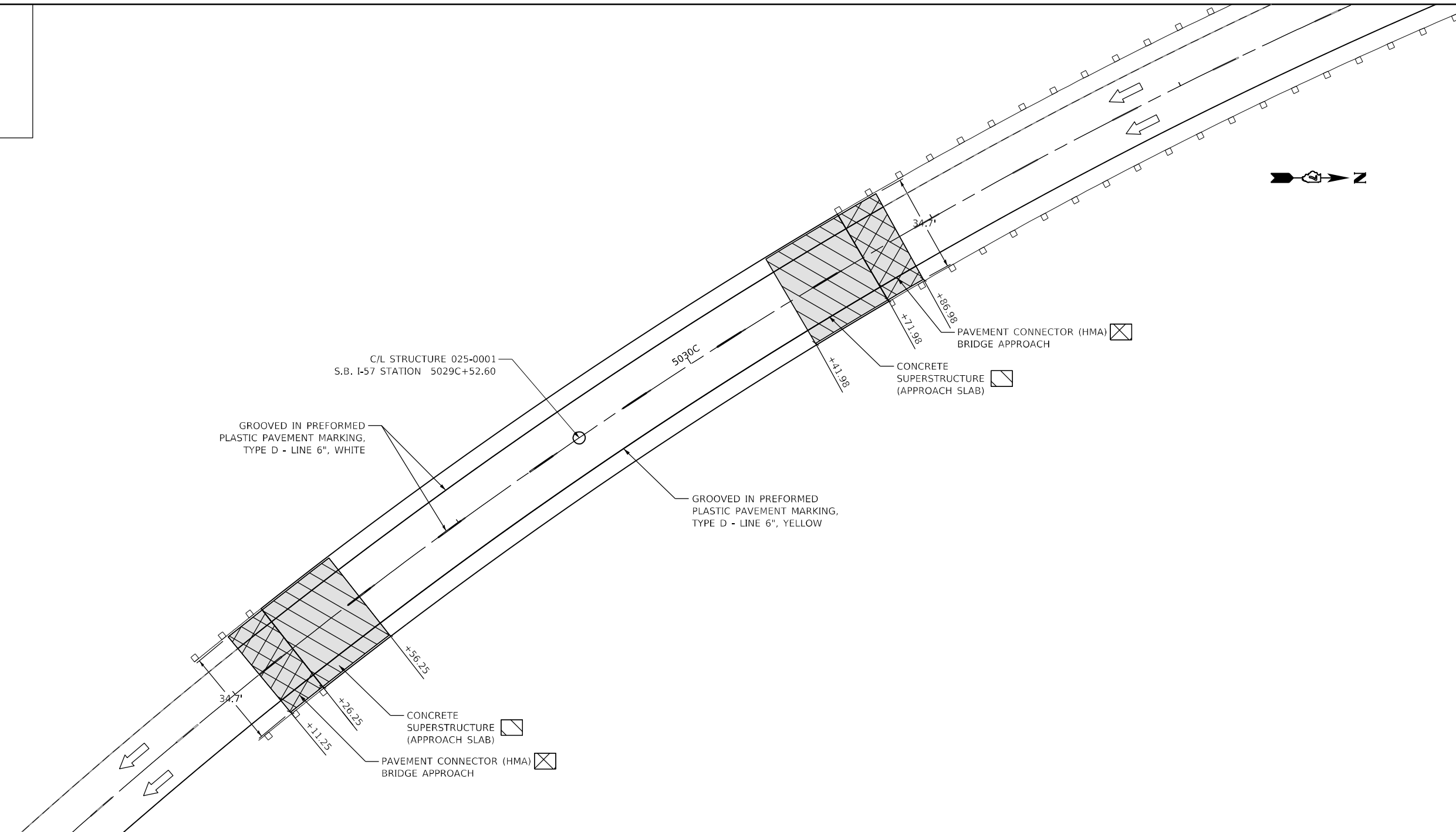
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DIRECTION OF TRAFFIC FLOW



APPROACH SLAB REMOVAL



TYPICAL DETAIL AT EACH END OF SN 025-0001

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DEPARTMENT OF TRANSPORTATION**

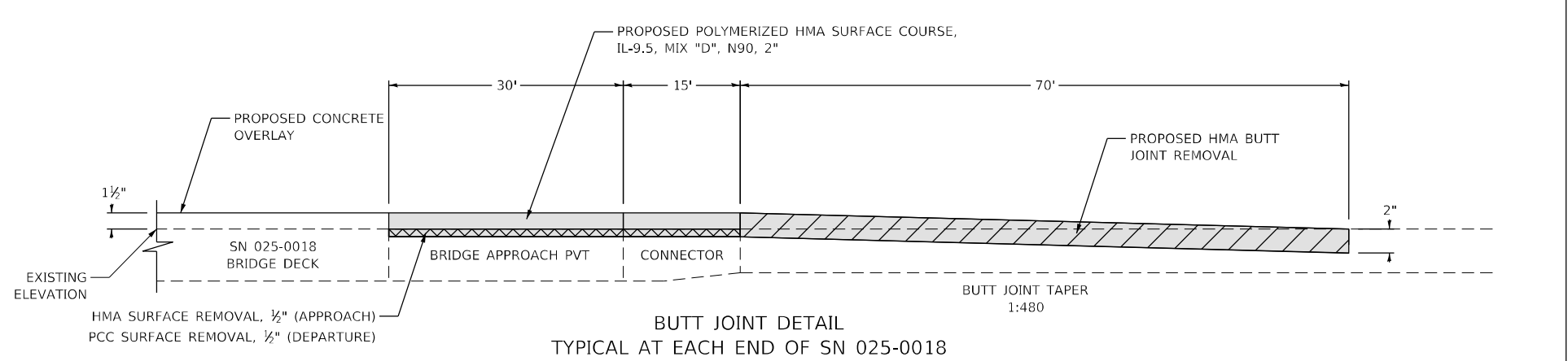
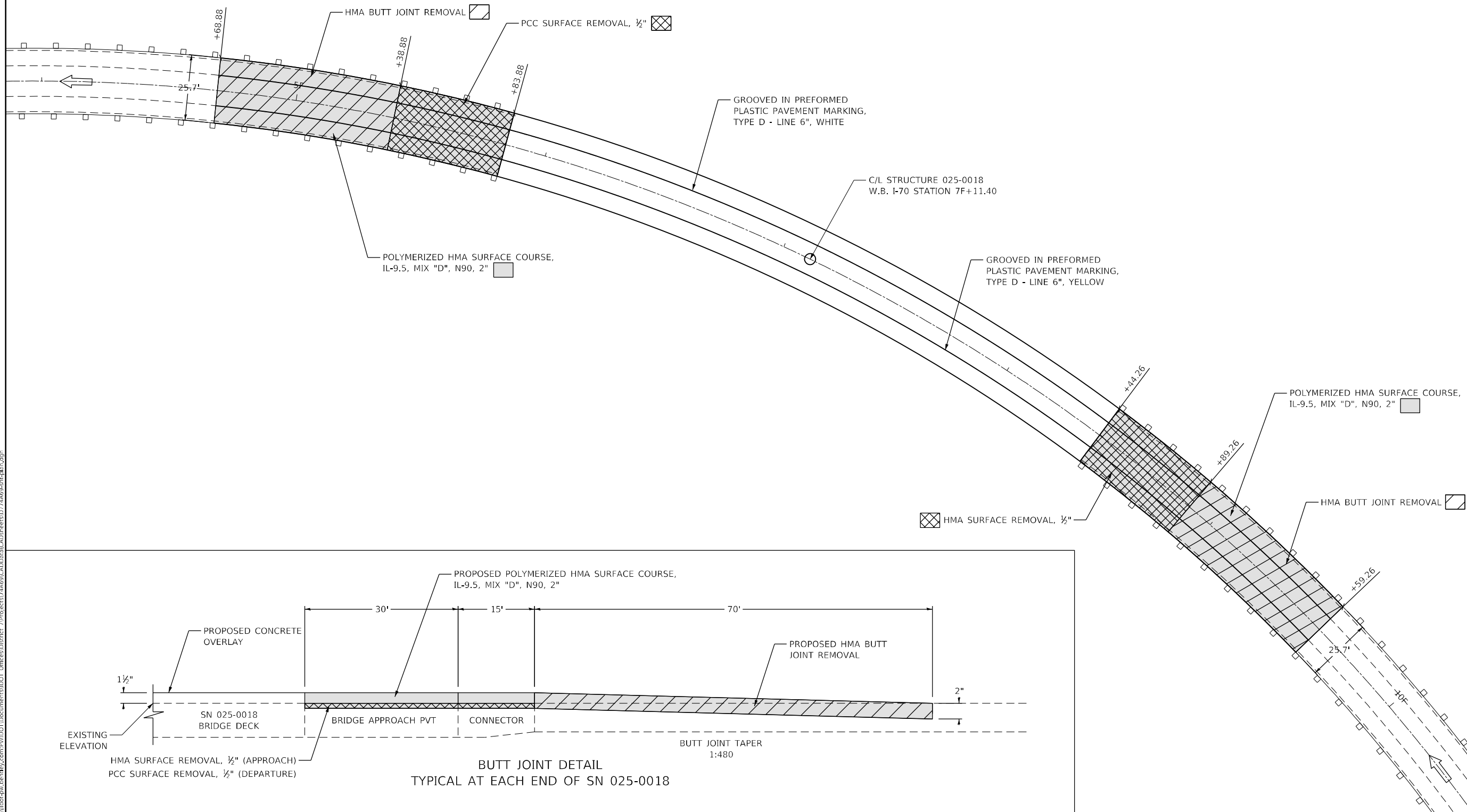
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	6
CONTRACT NO. 74A69			ILLINOIS FED. AID PROJECT	

LEGEND

← DIRECTION OF TRAFFIC FLOW



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

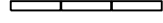
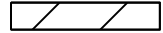

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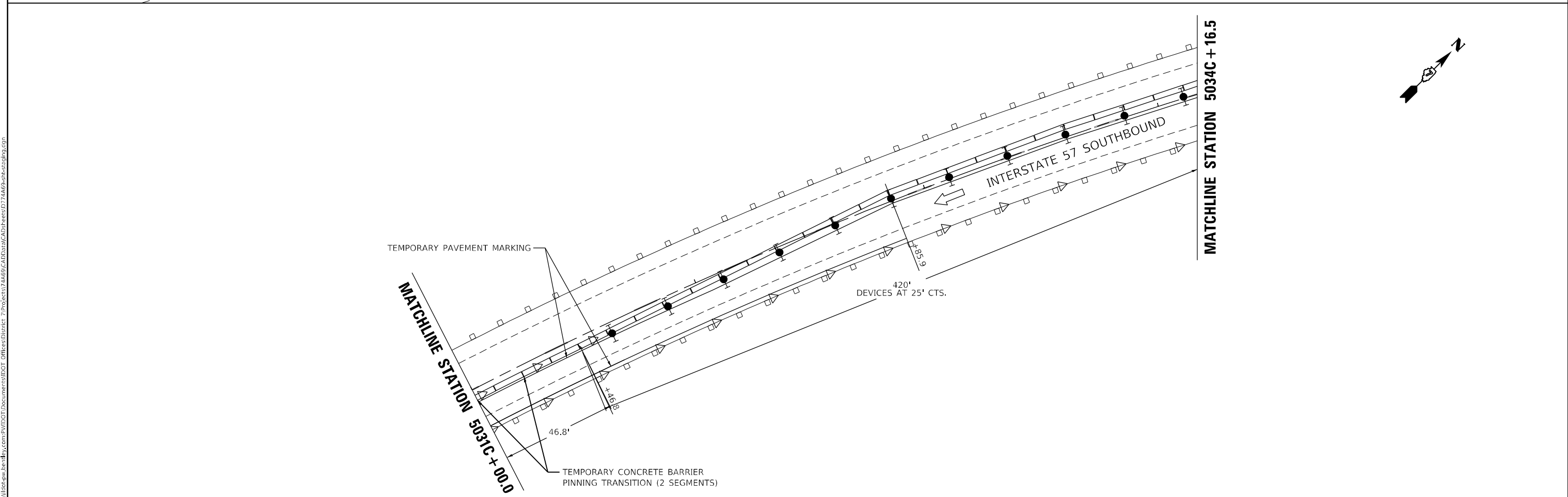
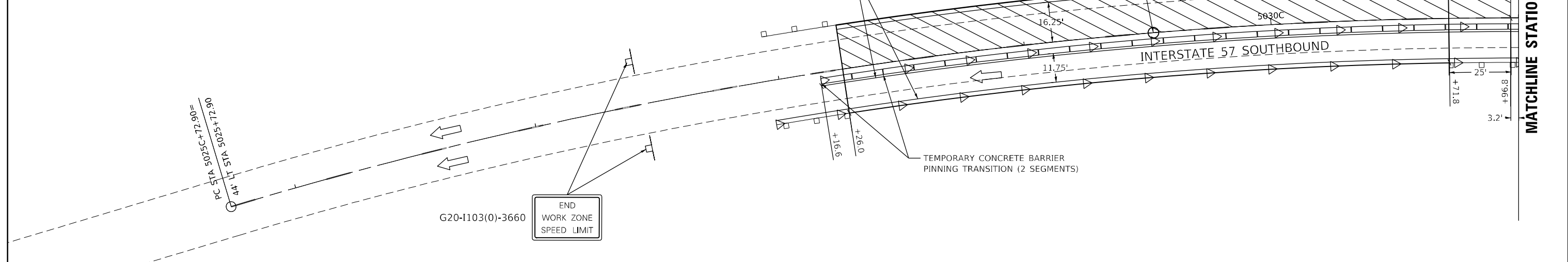
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DEPARTMENT OF TRANSPORTATION

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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	7
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

LEGEND

-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER)
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  ARROW BOARD
-  SIGN
-  MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
-  TEMPORARY CONCRETE BARRIER
-  WORK ZONE
-  DIRECTION OF TRAFFIC FLOW



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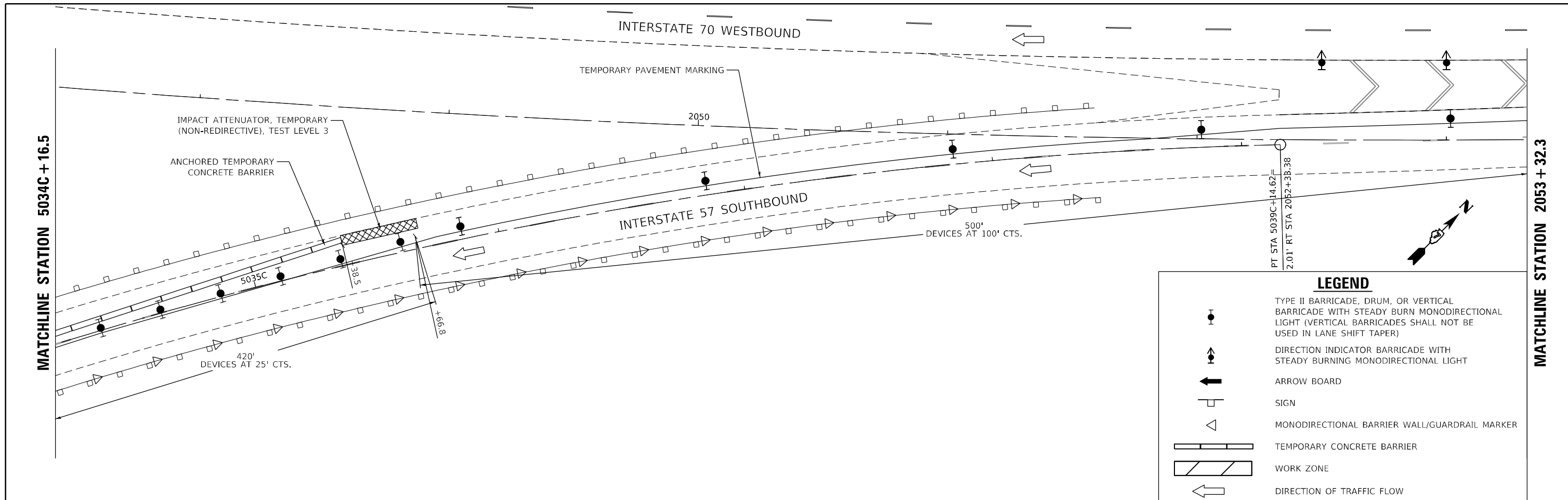
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 1 PLAN SHEETS - STANDARD 701402 (SPECIAL)
 SN 025-0001**

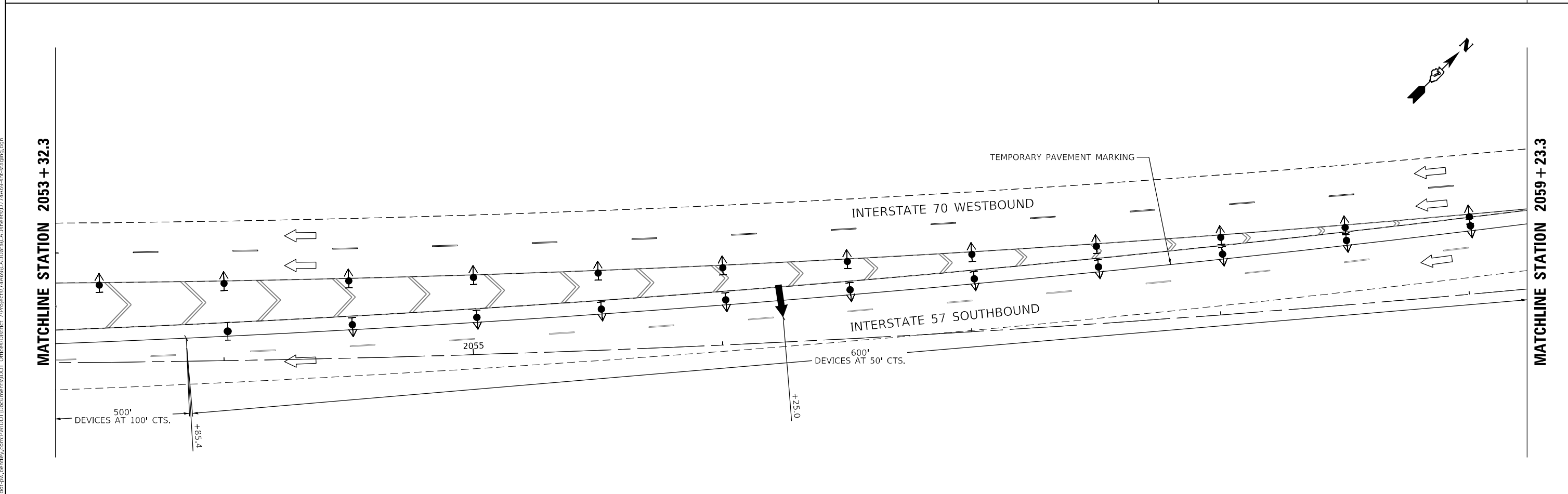
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A69	



LEGEND

	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER)
	DIRECTION INDICATOR BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT
	ARROW BOARD
	SIGN
	MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	DIRECTION OF TRAFFIC FLOW



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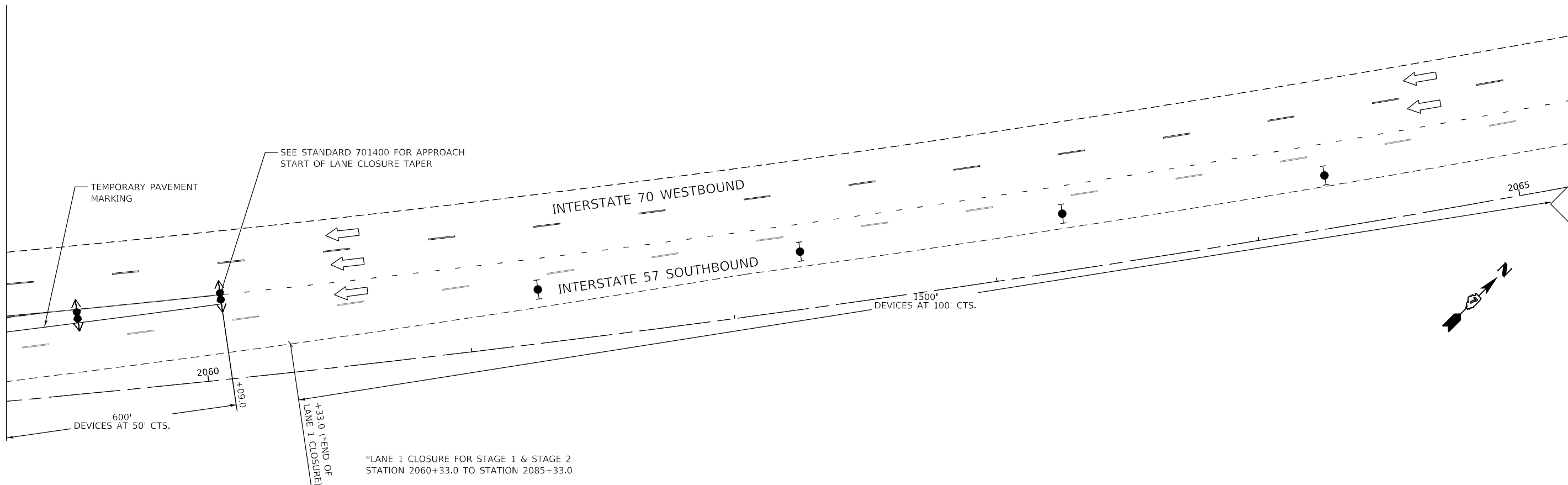
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 PLAN SHEETS - STANDARD 701402 (SPECIAL)
SN 025-0001
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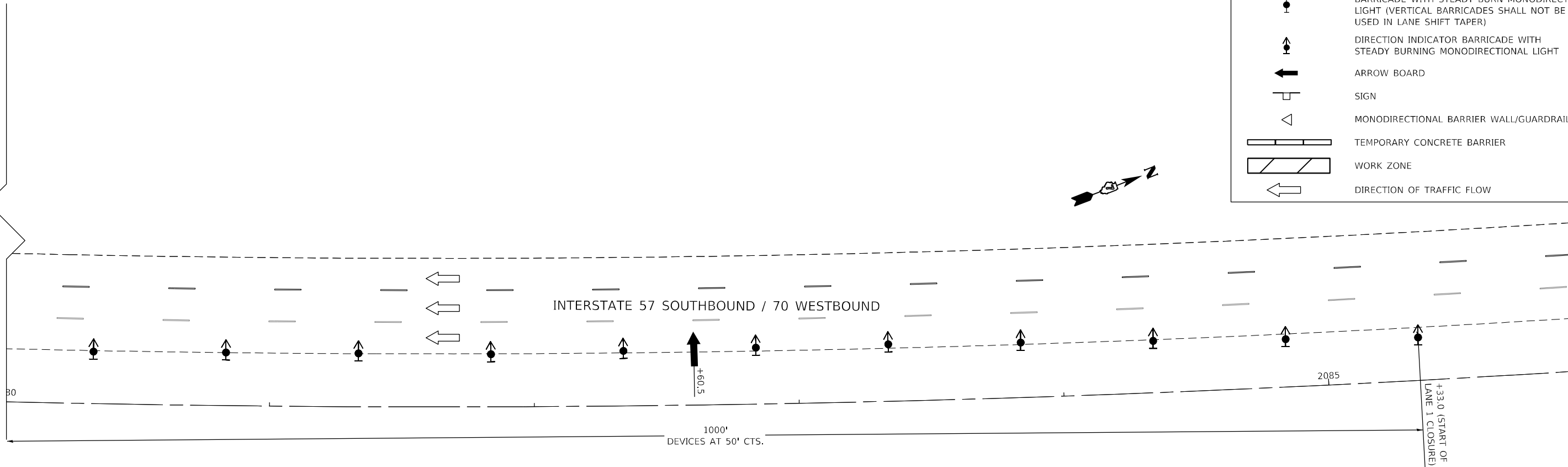
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	9
CONTRACT NO. 74A69			ILLINOIS FED. AID PROJECT	

MATCHLINE STATION 2059 + 23.3



LEGEND

- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER)
- DIRECTION INDICATOR BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT
- ARROW BOARD
- SIGN
- MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW



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DRAWN - LMH	REVISIONS -	
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PLOT DATE = 9/6/2022	DATE - 9/6/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

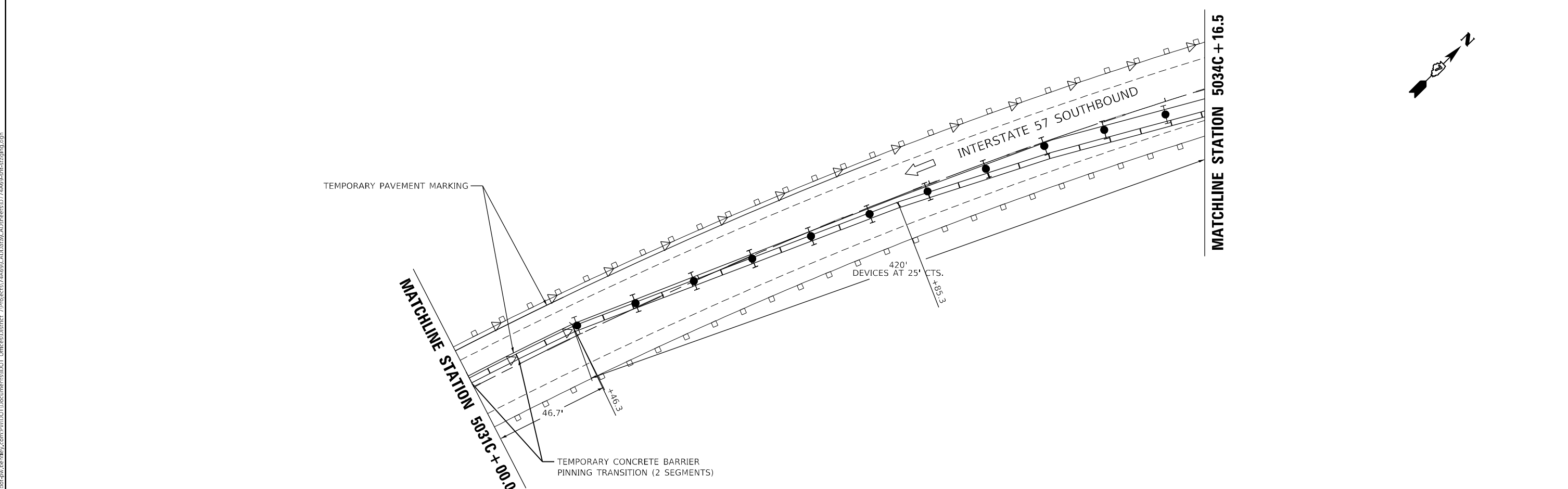
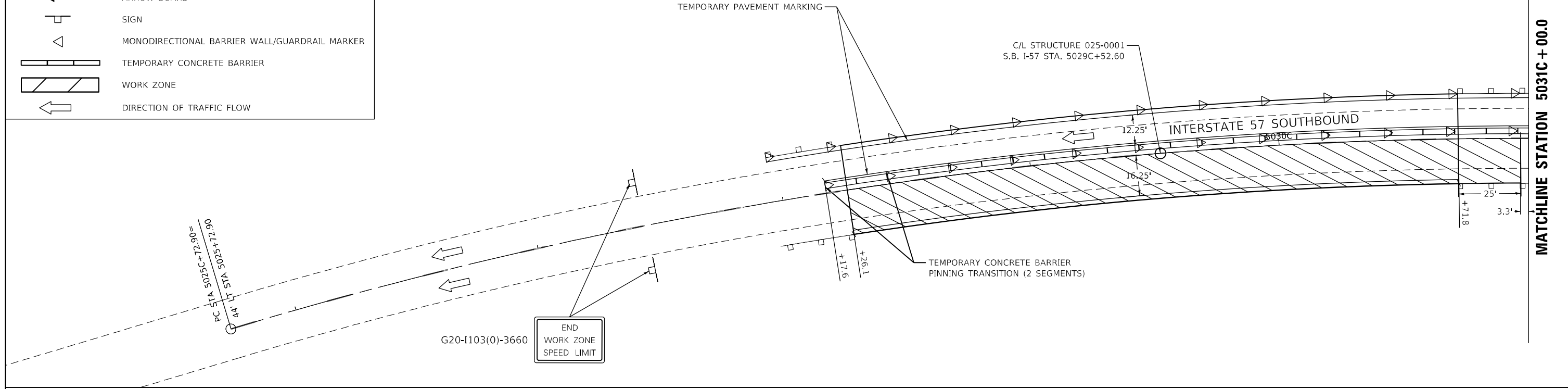
**STAGE 1 PLAN SHEETS - STANDARD 701402 (SPECIAL)
SN 025-0001**

SCALE: 40,0000 ' / in. SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	10
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

LEGEND

	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER)
	DIRECTION INDICATOR BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT
	ARROW BOARD
	SIGN
	MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	DIRECTION OF TRAFFIC FLOW



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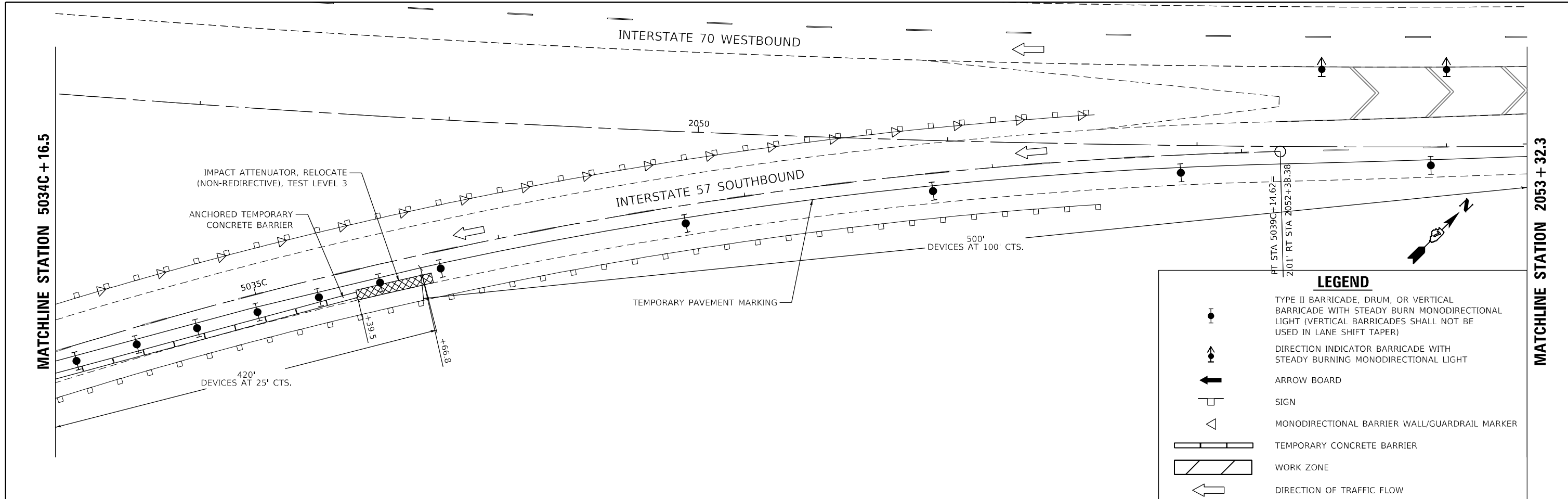
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PLOT DATE = 9/6/2022	DATE - 9/6/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 PLAN SHEETS – STANDARD 701402 (SPECIAL)
SN 025-0001

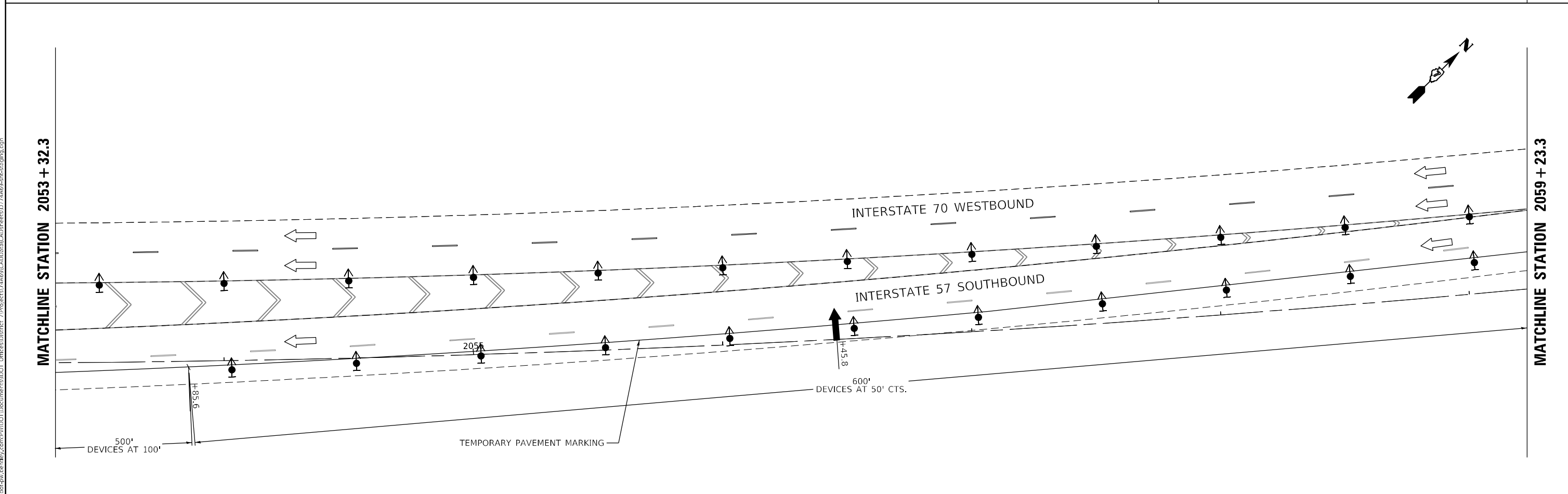
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F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A69	



LEGEND

	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER)
	DIRECTION INDICATOR BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT
	ARROW BOARD
	SIGN
	MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	DIRECTION OF TRAFFIC FLOW



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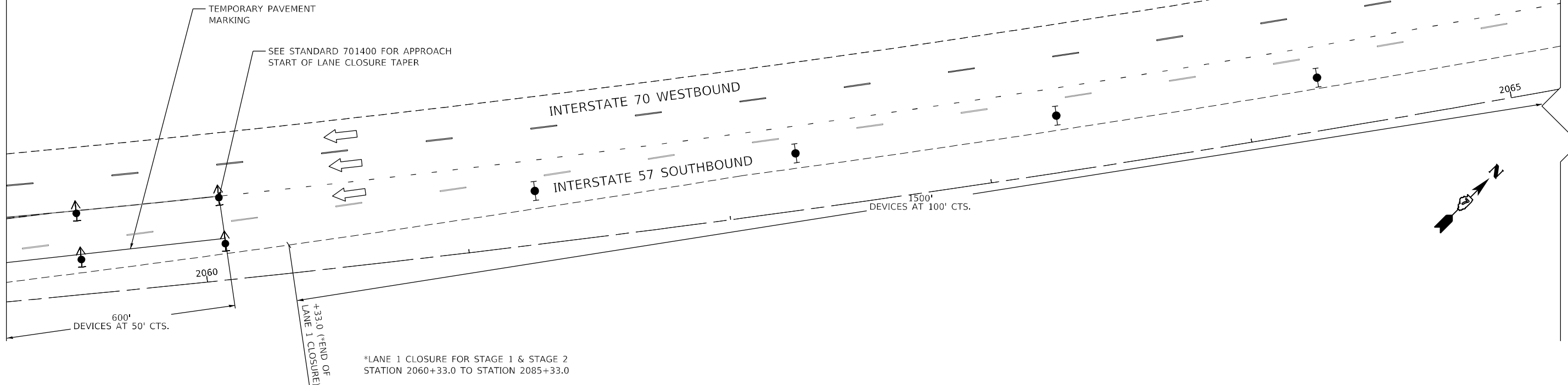
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 PLAN SHEETS - STANDARD 701402 (SPECIAL)
SN 025-0001**

SCALE: 40,0000 ' / in. SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	12
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

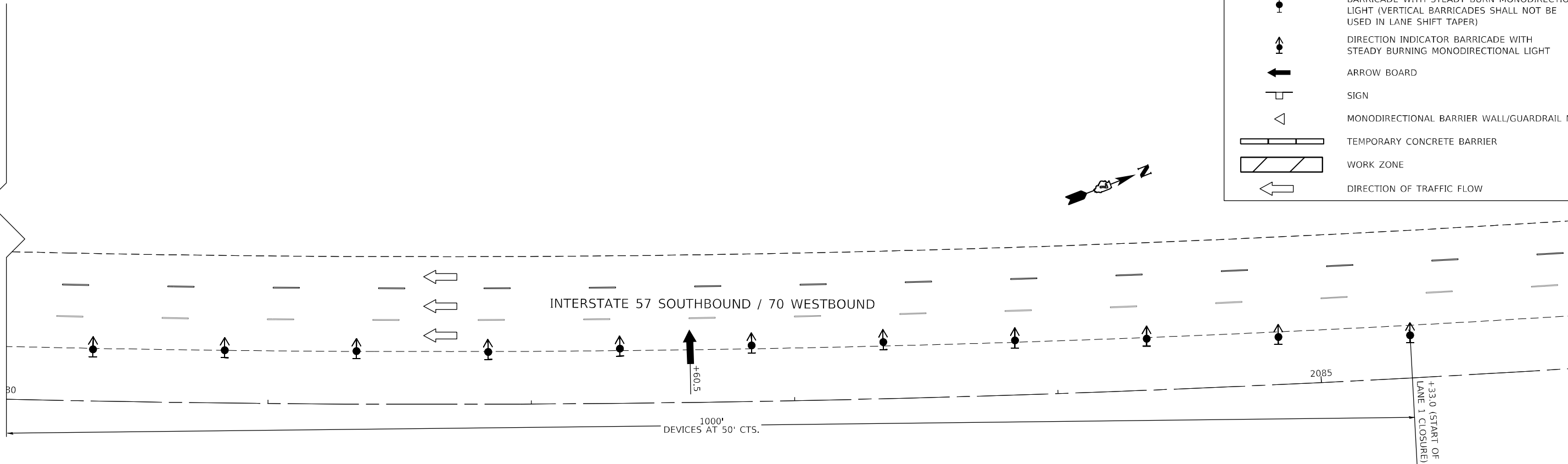
MATCHLINE STATION 2059 + 23.3



*LANE 1 CLOSURE FOR STAGE 1 & STAGE 2
STATION 2060+33.0 TO STATION 2085+33.0

LEGEND

- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER)
- DIRECTION INDICATOR BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT
- ARROW BOARD
- SIGN
- MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW



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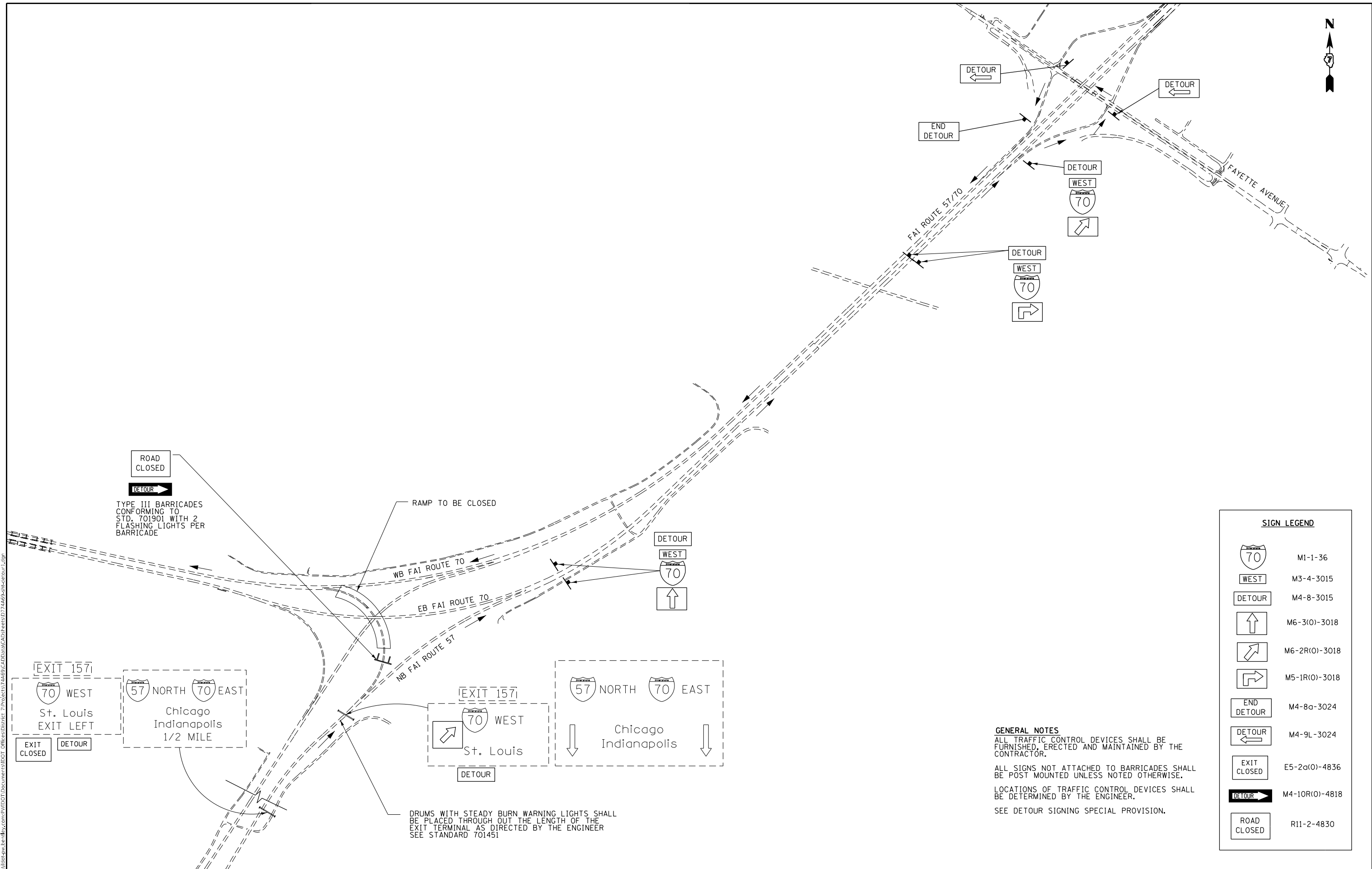
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 PLAN SHEETS - STANDARD 701402 (SPECIAL)
SN 025-0001**

SCALE: 40,0000 ' / in. SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	13
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				



SIGN LEGEND

	M1-1-36
	M3-4-3015
	M4-8-3015
	M6-3(O)-3018
	M6-2R(O)-3018
	M5-1R(O)-3018
	M4-8a-3024
	M4-9L-3024
	E5-2a(O)-4836
	M4-10R(O)-4818
	R11-2-4830

GENERAL NOTES
 ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
 ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED UNLESS NOTED OTHERWISE.
 LOCATIONS OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
 SEE DETOUR SIGNING SPECIAL PROVISION.

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PLOT DATE = 9/6/2022	DATE - 9/6/2022	REVISED -

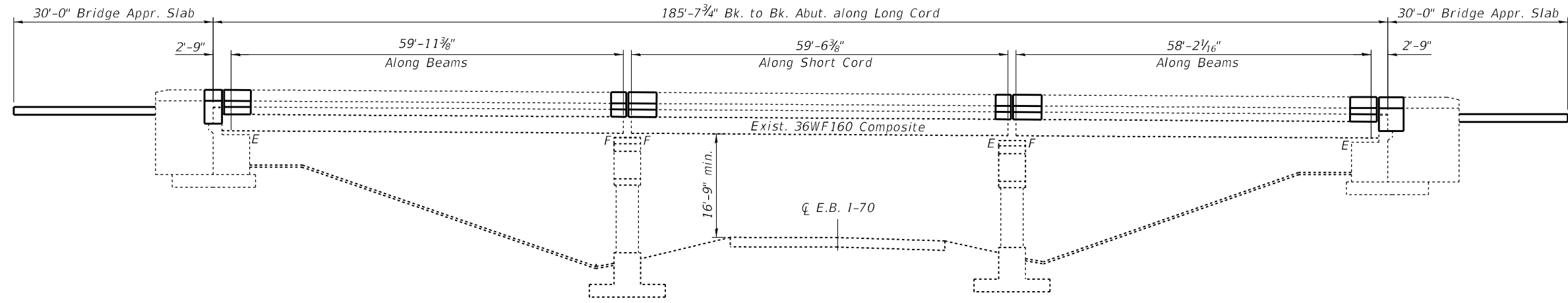
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR PLANS - STANDARD 701451
 SN 025-0018 - NB EXIT 157 RAMP**

SCALE: 100,0000' / in SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	14
			CONTRACT NO. 74A69	
ILLINOIS FED. AID PROJECT				

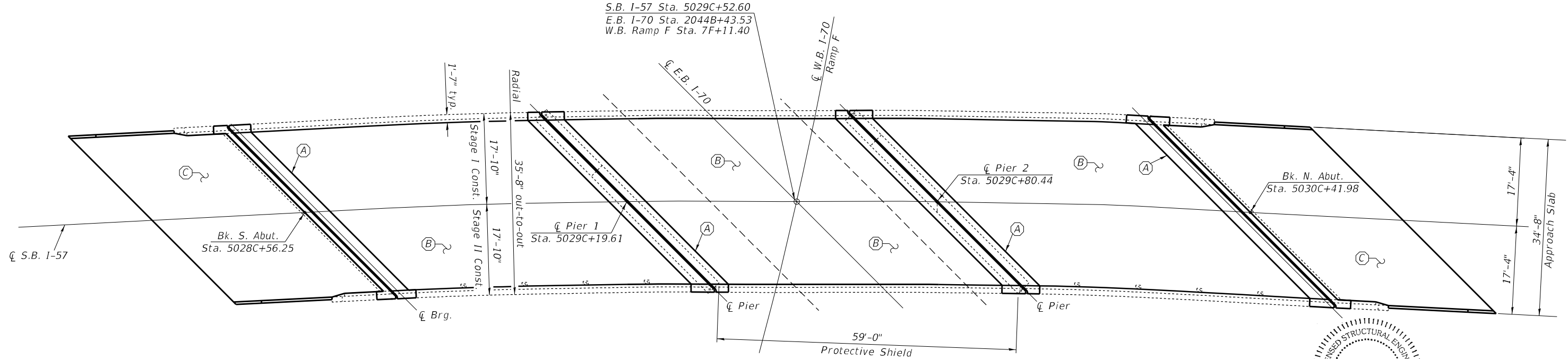
SN 025-0001 carries South Bound I-57 over East Bound I-70 & below I-70 W.B. Ramp "F".
 The existing three span, steel beam structure was constructed in 1960.
 The concrete deck was replaced in 1992, and deck repairs were done in 2012.
 The proposed project includes replacement of the expansion joints with
 new strip seals, scarification, bridge deck patching, bridge deck overlay,
 new approach slabs, diamond grinding, & slopewall repair



ELEVATION

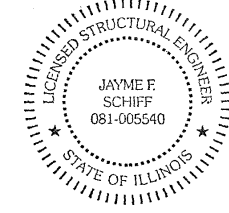


S.B. I-57 Sta. 5029C+52.60
 E.B. I-70 Sta. 2044B+43.53
 W.B. Ramp F Sta. 7F+11.40



PLAN

- (A) - Remove Existing Expansion Joints and Replace with Strip Seal Expansion Joints
- (B) - Bridge Deck Scarification, 2 1/4", Deck Patching, Bridge Deck Fly Ash or GGBF Slag Concrete Overlay-2 1/2", Diamond Grinding (Bridge Section) & Bridge Deck Grooving (Longitudinal)
- (C) - Remove Existing Approaches & Construct New Bridge Approach Slabs, Diamond Grinding (Bridge Section) & Bridge Deck Grooving (Longitudinal)



EXPIRES 11-30-2022

Jayme F. Schiff

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 PLOT DATE: 9/6/2022
 PROJECT: 74A69
 DRAWING: 01
 SHEET: 15
 TITLE: BRIDGE REPAIRS 2023-1

USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 9/6/2022	DATE - Dec. 2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 S.N. 025-0001

SCALE: 100,0000' / in SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	15
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of 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.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced with an approved bar splicer or anchorage system. Cost included with CONCRETE REMOVAL.

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.

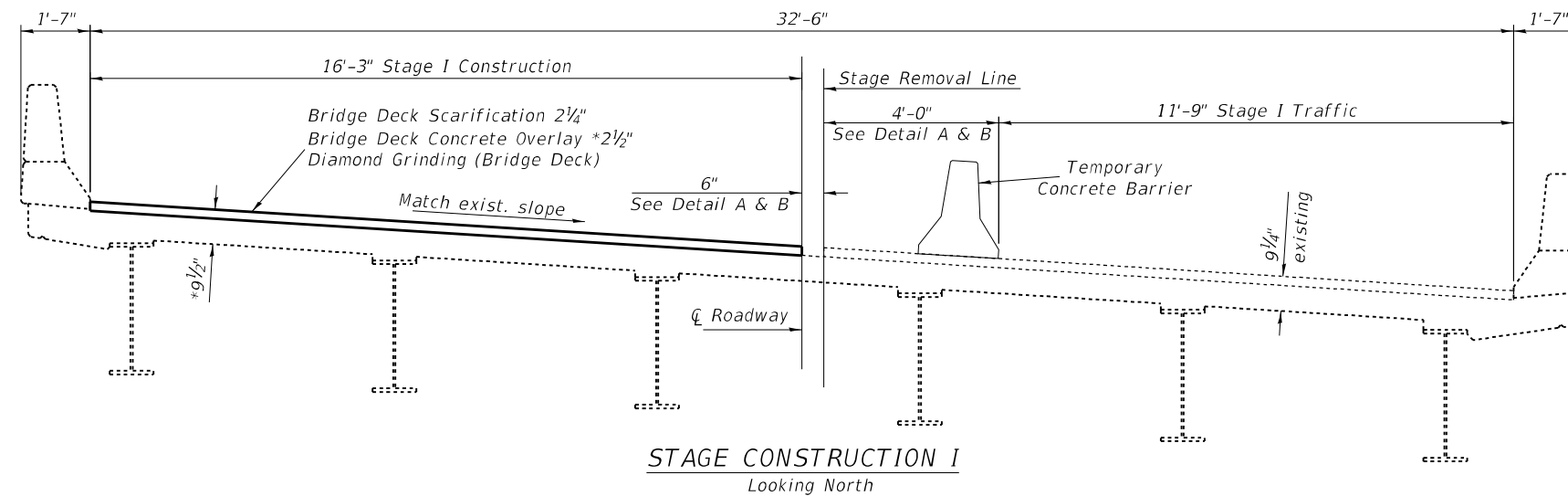
Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay, slopewall repair, & approaches.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. 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 included in the pay item covering removal of the existing concrete.

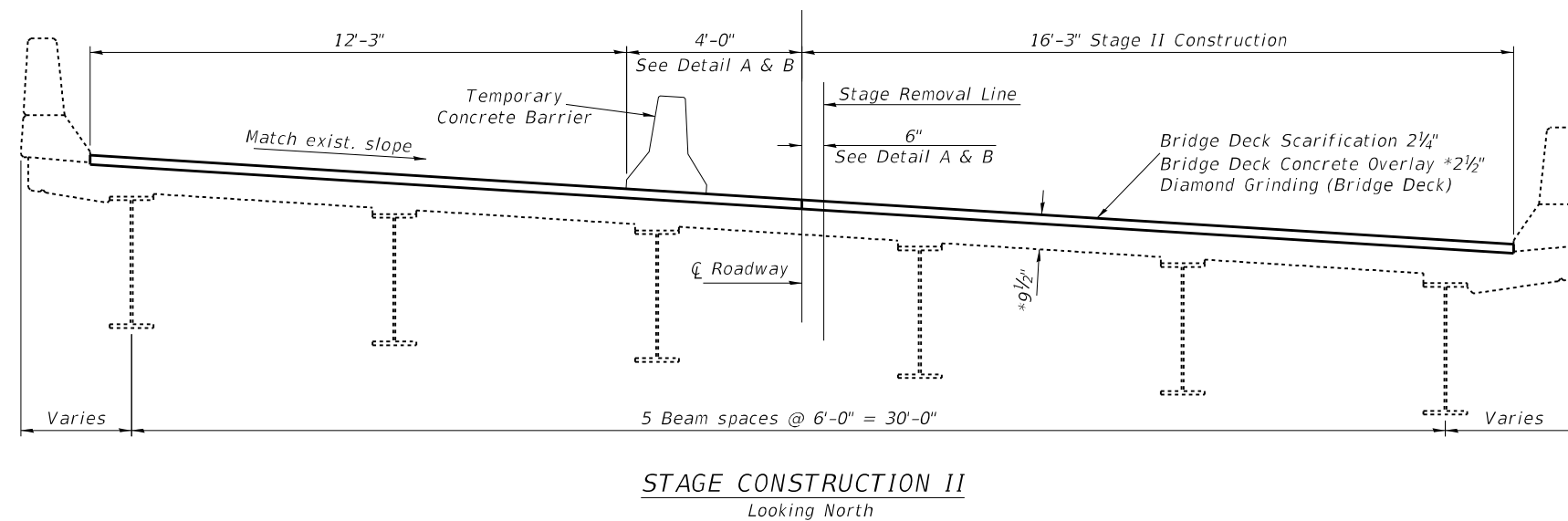
Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

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.

Proposed concrete removal on the bridge deck and the parapets at the expansion joints is intended to match or exceed the removal & replacement limits from previous expansion joint replacement. If any removal dimensions shown in these plans do not extend far enough to encompass existing construction joints from previous joint replacement, concrete removal limits shall be expanded to match the existing construction joint. Additional removal and replacement will be paid for at the unit price bid for Concrete Removal and Concrete Superstructure.

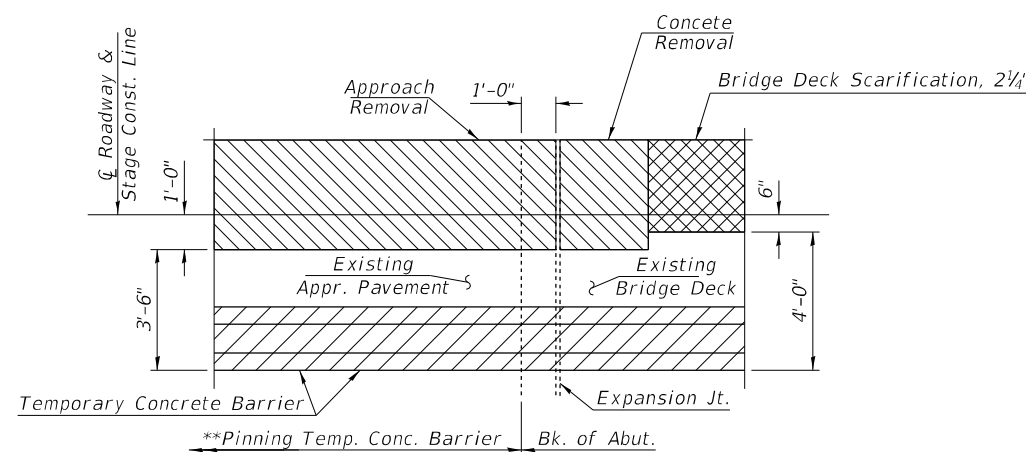


* Prior to grinding

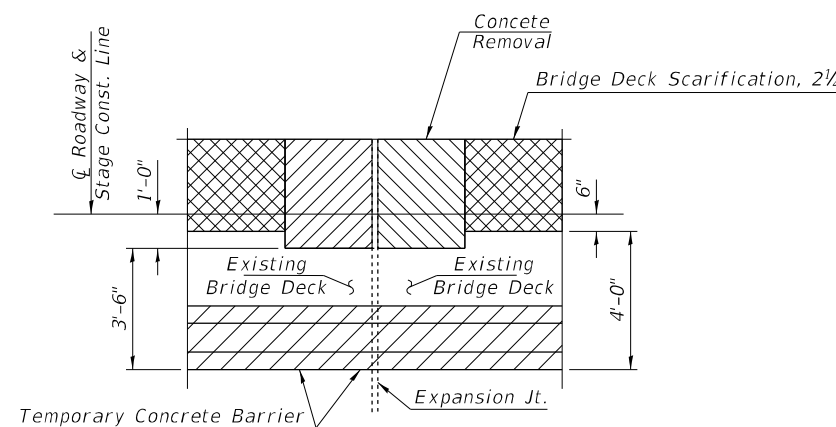


TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	45.7
Concrete Superstructure	Cu. Yd.	45.3
Preformed Joint Strip Seal	Foot	194
Reinforcement Bars, Epoxy Coated	Pound	50,500
Bridge Deck Scarification, 2 1/4"	Sq. Yd.	586
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/2"	Sq. Yd.	586
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	652
Diamond Grinding (Bridge Section)	Sq. Yd.	880
Protective Coat	Sq. Yd.	1,032
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	10
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	8
Protective Shield	Sq. Yd.	235
Concrete Structures	Cu. Yd.	32
Concrete Superstructure (Approach Slab)	Cu. Yd.	100
Slope Wall Removal	Sq. Yd.	110
Slope Wall 6 Inch	Sq. Yd.	110
Subbase Granular Material, Type B	TON	73
Bar Splicers	EACH	350
Raised Reflective Pavement Marker Removal	Each	4



Detail A - Stage Removal Limits Near Abutments
Plan View South Abutment Shown, North Abutment Similar



Detail B - Stage Removal Limits Near Piers
Plan View at Piers

** Temporary Concrete Barriers to be Pinned or Anchored on Approaches. Pinning Not Permitted on the Bridge Deck

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PLOT DATE = 9/6/2022	CHECKED - D. Macklin	REVISED -
	DATE - Dec. 2021	REVISED -

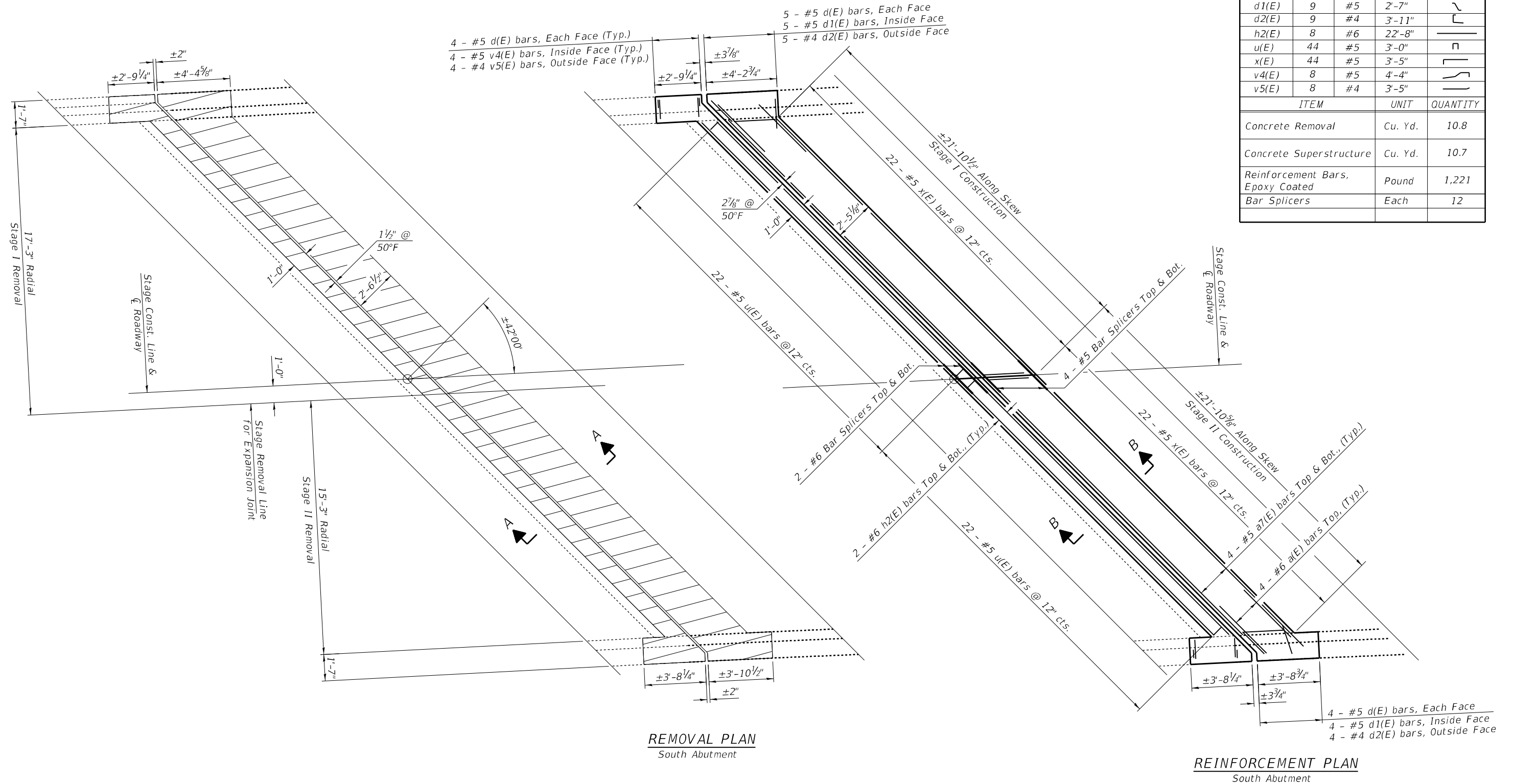
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS, GENERAL NOTES, &
BILL OF MATERIALS S.N. 025-0001**

SCALE: 100,0000' / in SHEET 2 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	16
CONTRACT NO. 74A69			ILLINOIS FED. AID PROJECT	

Note: Hatched area indicates removal.



Bar	No.	Size	Length	Shape
a(E)	8	#6	5'-7"	—
a7(E)	16	#5	22'-8"	—
d(E)	34	#5	3'-0"	┌
d1(E)	9	#5	2'-7"	└
d2(E)	9	#4	3'-11"	└
h2(E)	8	#6	22'-8"	—
u(E)	44	#5	3'-0"	┌
x(E)	44	#5	3'-5"	┌
v4(E)	8	#5	4'-4"	┌
v5(E)	8	#4	3'-5"	┌
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	10.8	
Concrete Superstructure		Cu. Yd.	10.7	
Reinforcement Bars, Epoxy Coated		Pound	1,221	
Bar Splicers		Each	12	

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 PROJECT: 74A69

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DRAWN - T. Walk	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 9/6/2022	DATE - Dec. 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAIL
SOUTH ABUTMENT S.N. 025-0001**

SCALE: 100,0000' / in SHEET 3 OF 16 SHEETS STA. TO STA.

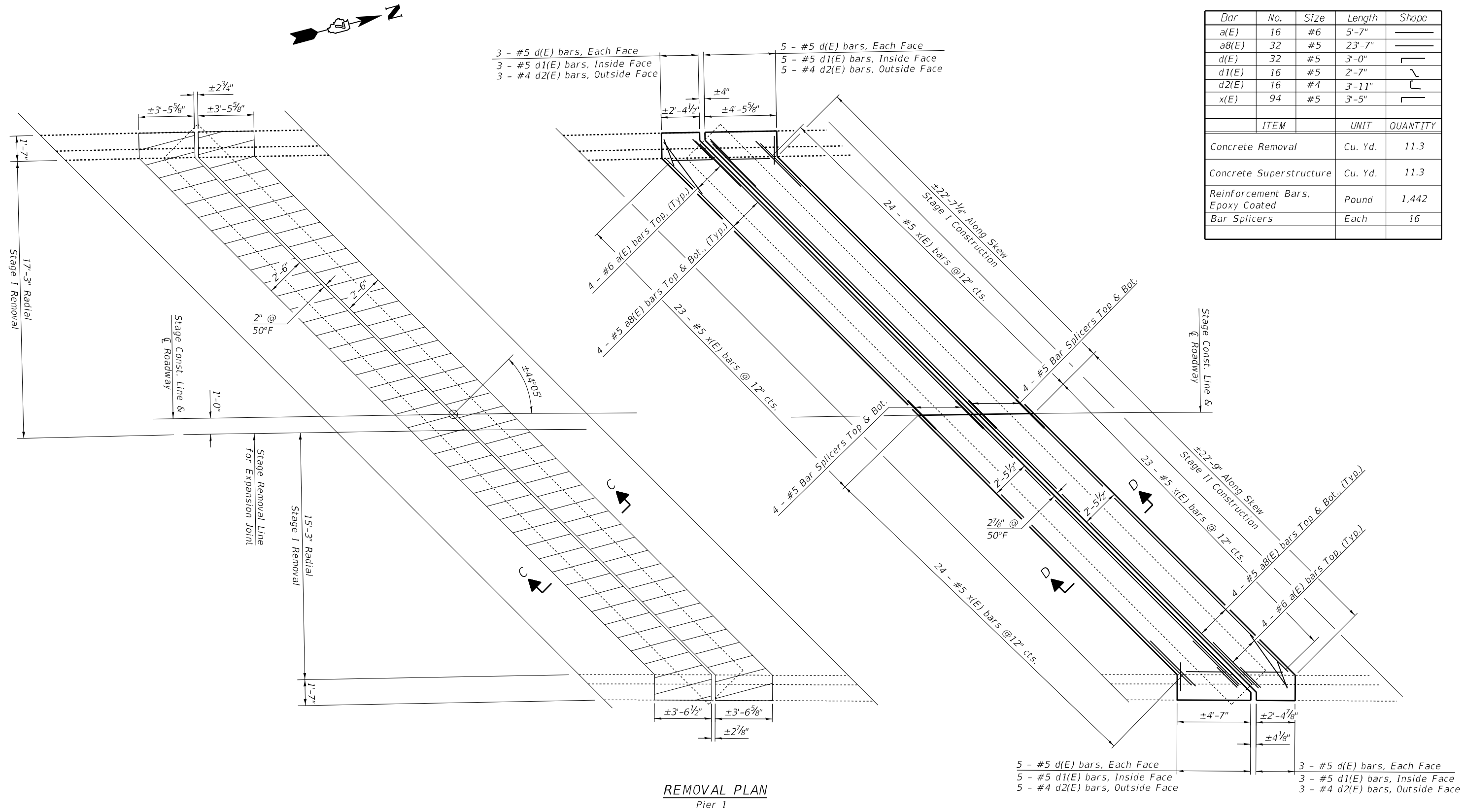
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57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	17
CONTRACT NO. 74A69			ILLINOIS FED. AID PROJECT	

Note: Hatched area indicates removal.

For Section C-C and D-D, See sheet 7 of 16

BILL OF MATERIAL - PIER 1

Bar	No.	Size	Length	Shape
a(E)	16	#6	5'-7"	—
a8(E)	32	#5	23'-7"	—
d(E)	32	#5	3'-0"	┌
d1(E)	16	#5	2'-7"	└
d2(E)	16	#4	3'-11"	└
x(E)	94	#5	3'-5"	┌
	ITEM		UNIT	QUANTITY
Concrete Removal			Cu. Yd.	11.3
Concrete Superstructure			Cu. Yd.	11.3
Reinforcement Bars, Epoxy Coated			Pound	1,442
Bar Splicers			Each	16



REMOVAL PLAN
Pier 1

REINFORCEMENT PLAN
Pier 1

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 DRAWN: T. Walk
 CHECKED: D. Macklin
 DATE: Dec. 2021
 SCALE: 100,000' / 1"

USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
PLOT SCALE = 100,000' / 1"	CHECKED - D. Macklin	REVISED -
PLOT DATE = 9/6/2022	DATE - Dec. 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAIL
PIER 1 S.N. 025-0001**

SCALE: 100,000' / 1" SHEET 4 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	18
CONTRACT NO. 74A69				

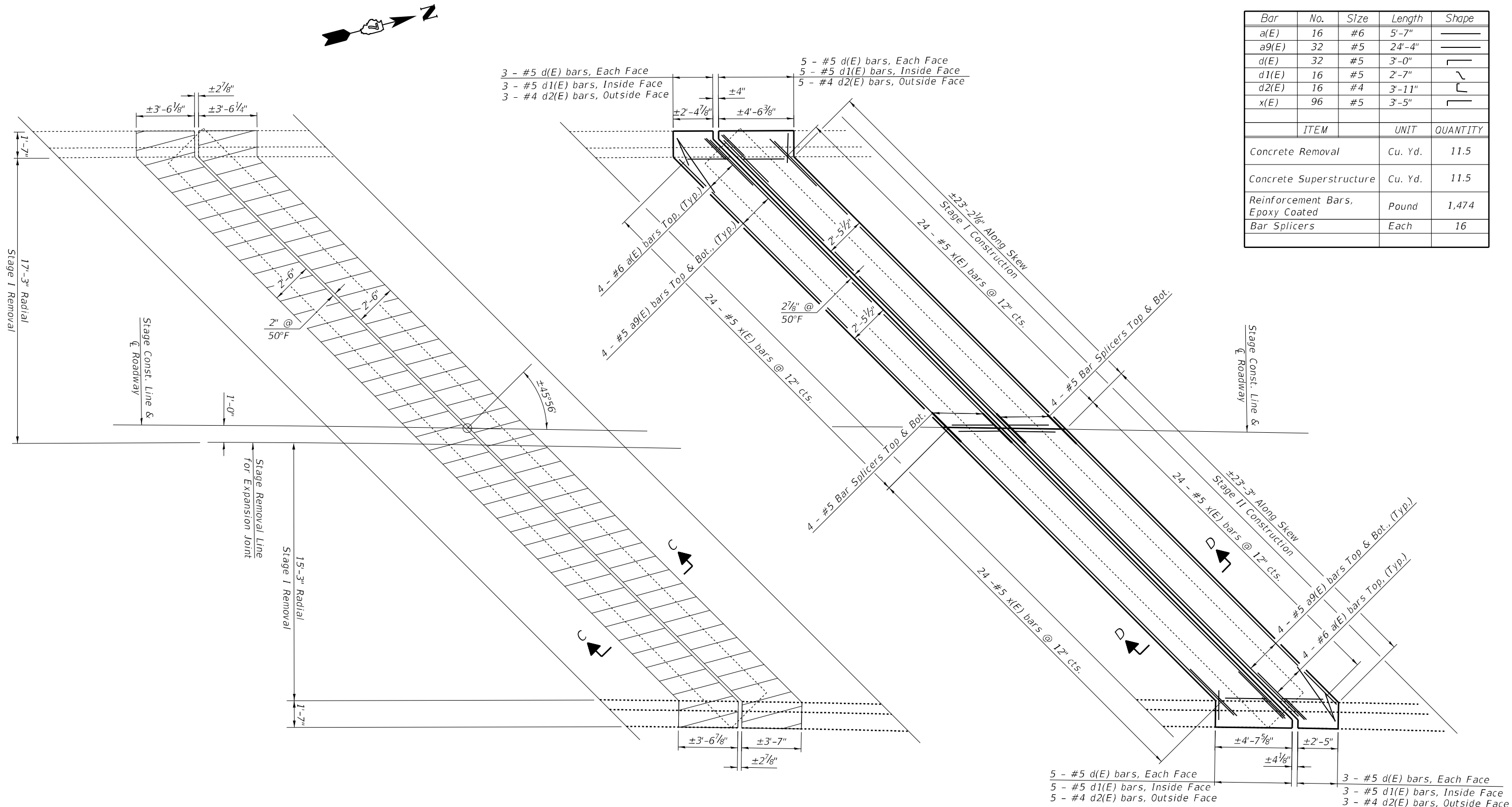
ILLINOIS FED. AID PROJECT

Note: Hatched area indicates removal.

For Section C-C and D-D, See sheet 7 of 16

BILL OF MATERIAL - PIER 2

Bar	No.	Size	Length	Shape	
a(E)	16	#6	5'-7"	—	
a9(E)	32	#5	24'-4"	—	
d(E)	32	#5	3'-0"	┐	
d1(E)	16	#5	2'-7"	┘	
d2(E)	16	#4	3'-11"	┘	
x(E)	96	#5	3'-5"	┐	
ITEM				UNIT	QUANTITY
Concrete Removal			Cu. Yd.	11.5	
Concrete Superstructure			Cu. Yd.	11.5	
Reinforcement Bars, Epoxy Coated			Pound	1,474	
Bar Splicers			Each	16	



REMOVAL PLAN
Pier 2

REINFORCEMENT PLAN
Pier 2

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PLOT DATE = 9/6/2022	DATE - Dec. 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXPANSION JOINT REPLACEMENT DETAIL
PIER 2 S.N. 025-0001
SCALE: 100,0000' / in SHEET 5 OF 16 SHEETS STA. TO STA.

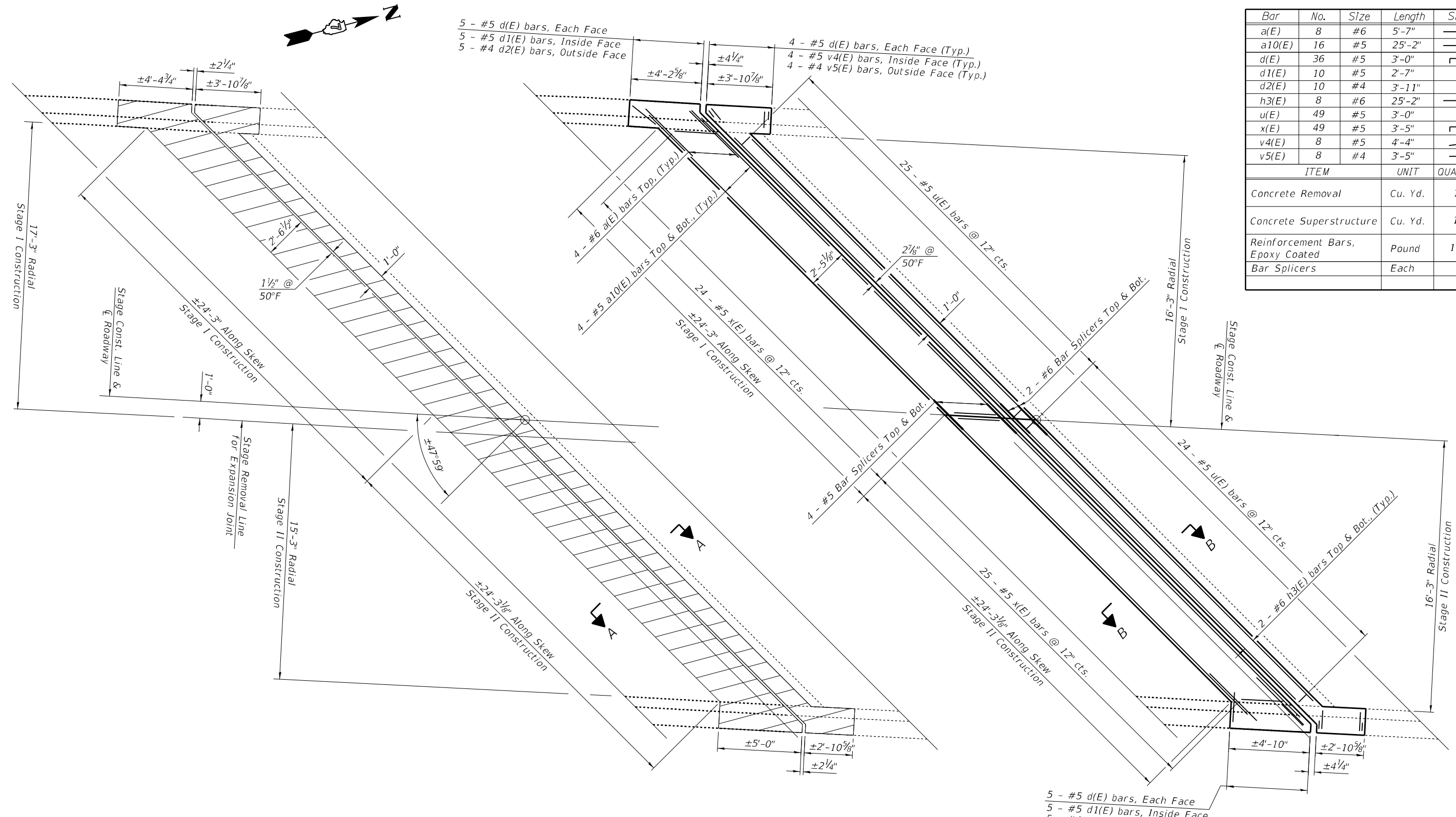
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CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

Note: Hatched area indicates removal.

For Section A-A and B-B, See sheet 7 of 16

BILL OF MATERIAL - NORTH ABUT.

Bar	No.	Size	Length	Shape
a(E)	8	#6	5'-7"	—
a10(E)	16	#5	25'-2"	—
d(E)	36	#5	3'-0"	┌
d1(E)	10	#5	2'-7"	└
d2(E)	10	#4	3'-11"	└
h3(E)	8	#6	25'-2"	—
u(E)	49	#5	3'-0"	⊏
x(E)	49	#5	3'-5"	┌
v4(E)	8	#5	4'-4"	┌
v5(E)	8	#4	3'-5"	┌
ITEM	UNIT	QUANTITY		
Concrete Removal	Cu. Yd.	12.1		
Concrete Superstructure	Cu. Yd.	11.9		
Reinforcement Bars, Epoxy Coated	Pound	1,338		
Bar Splicers	Each	12		



REMOVAL PLAN
North Abutment

REINFORCEMENT PLAN
North Abutment

MODEL: Default
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 PROJECT: 74A69
 DRAWING: 74A69-Substructure-ExpansionJointDetail.dwg
 DATE: 9/6/2022

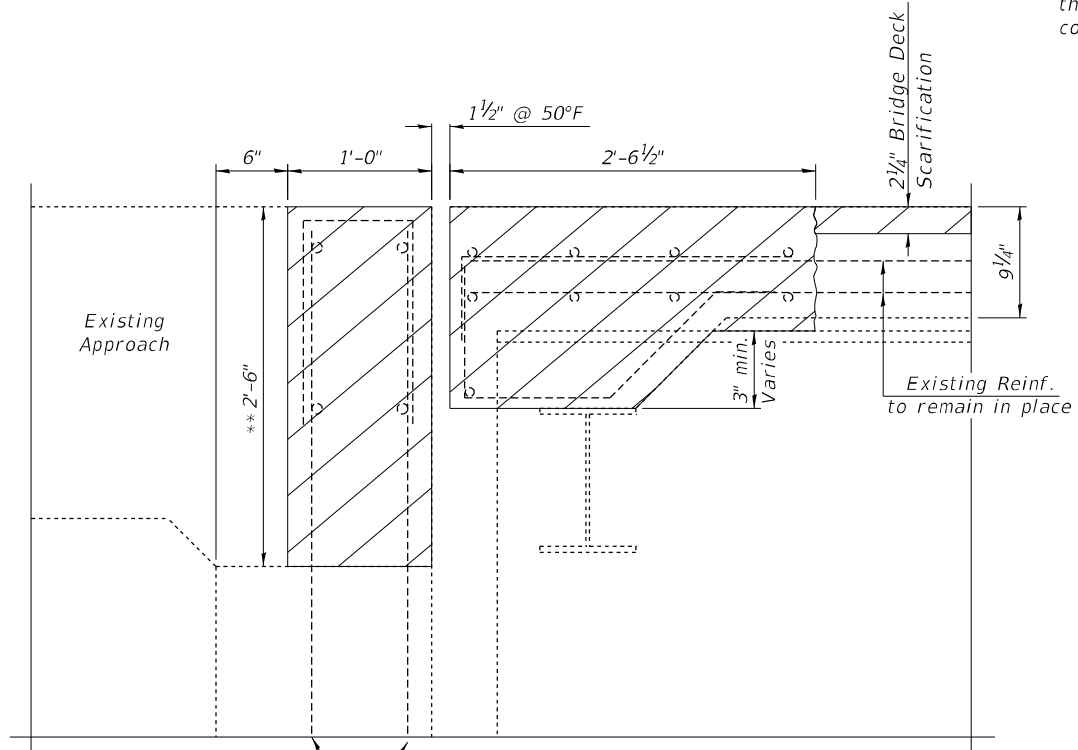
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DRAWN - T. Walk	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 9/6/2022	DATE - Dec. 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

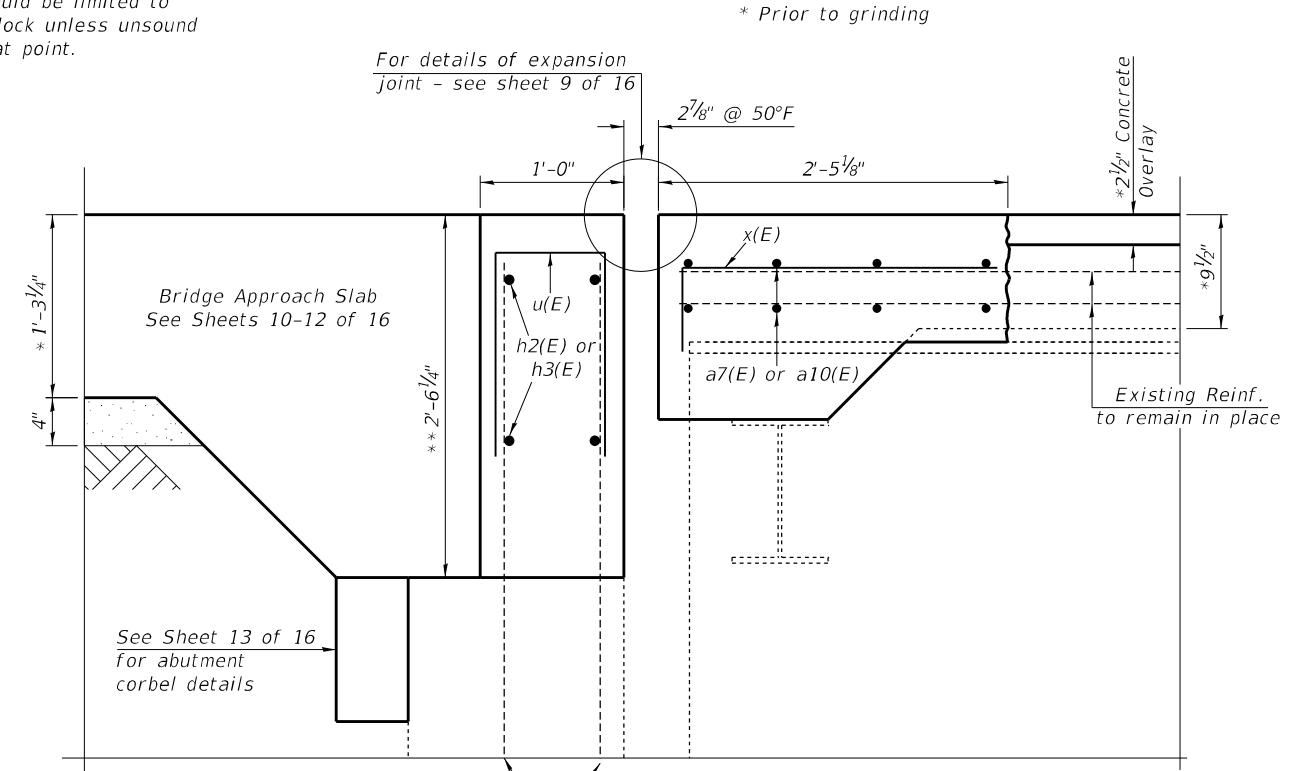
EXPANSION JOINT REPLACEMENT DETAIL
NORTH ABUTMENT S.N. 025-0001
SCALE: 100,0000' / SHEET 6 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	20
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

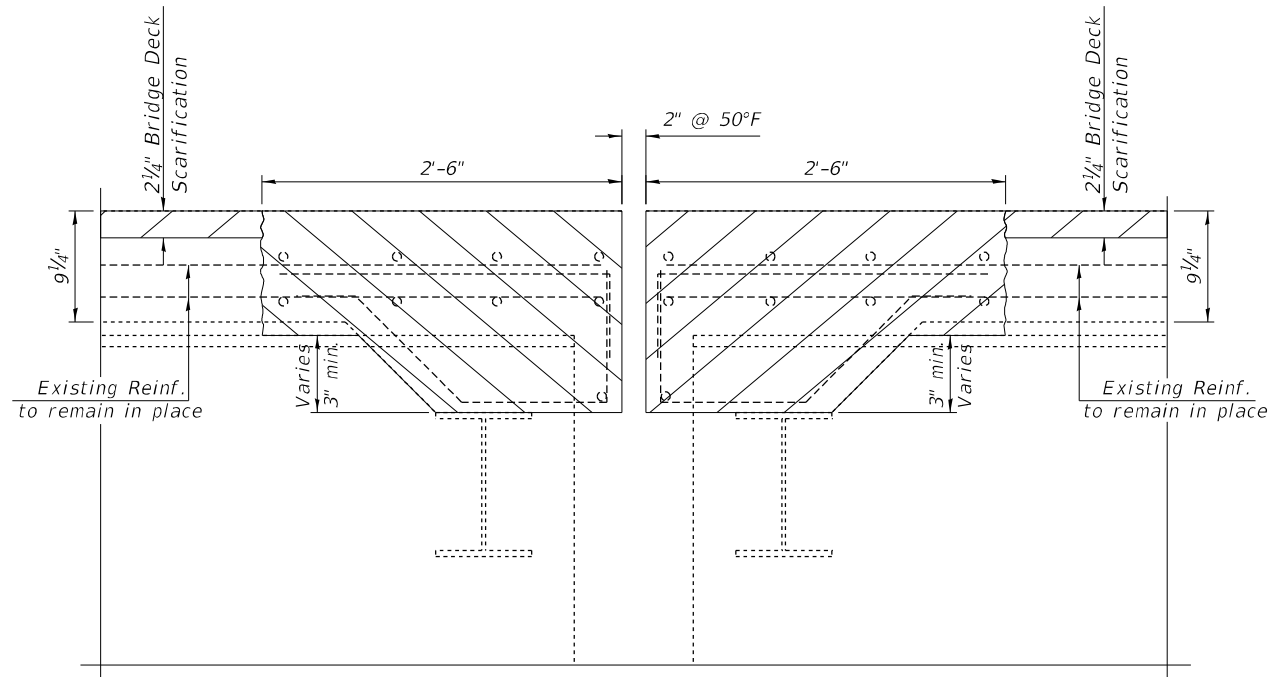
** Abutment "hatch" block depth dimension is taken from existing plans. Removal depth should be limited to the depth of the existing hatch block unless unsound concrete is encountered below that point.



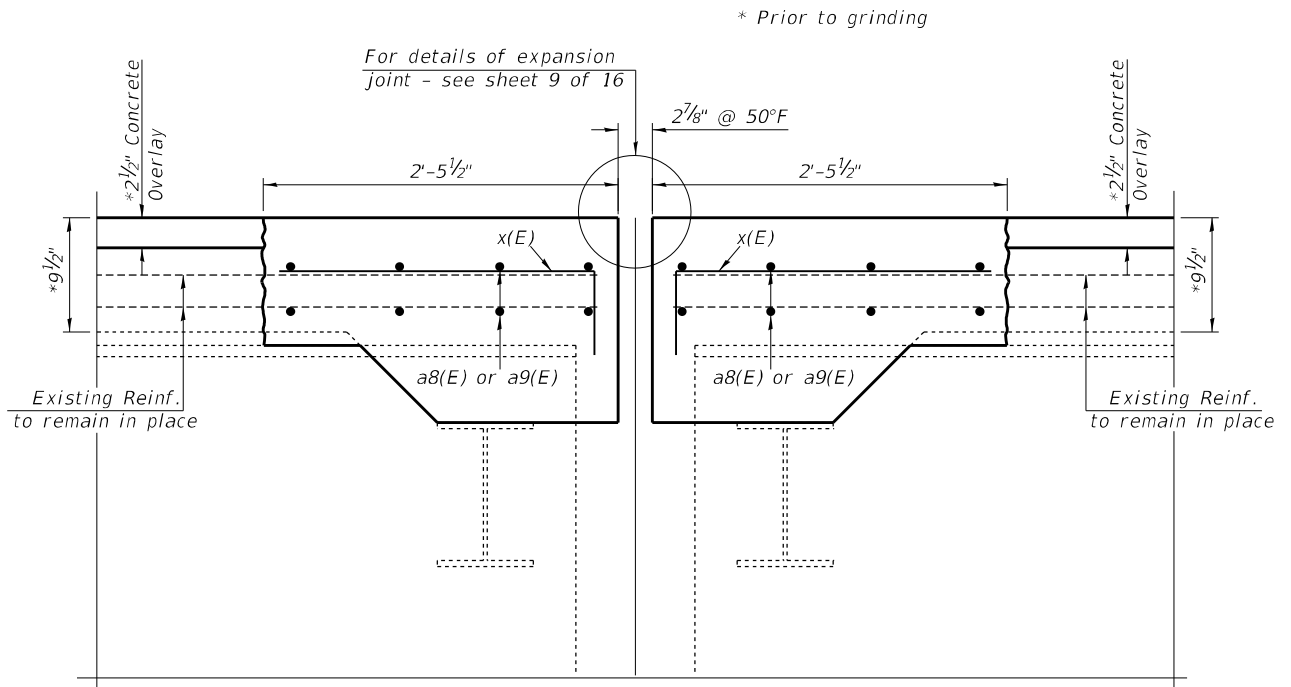
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

MODEL: Default
 FILE: I:\MSD\paw_benefay.com\PIV\DOT\Documents\DOT Office\Drawings\74A69\bridge_repair.dgn
 PROJECT: 74A69\CADD\Drawings\74A69\bridge_repair.dgn

USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 9/6/2022	DATE - Dec. 2021	REVISED -

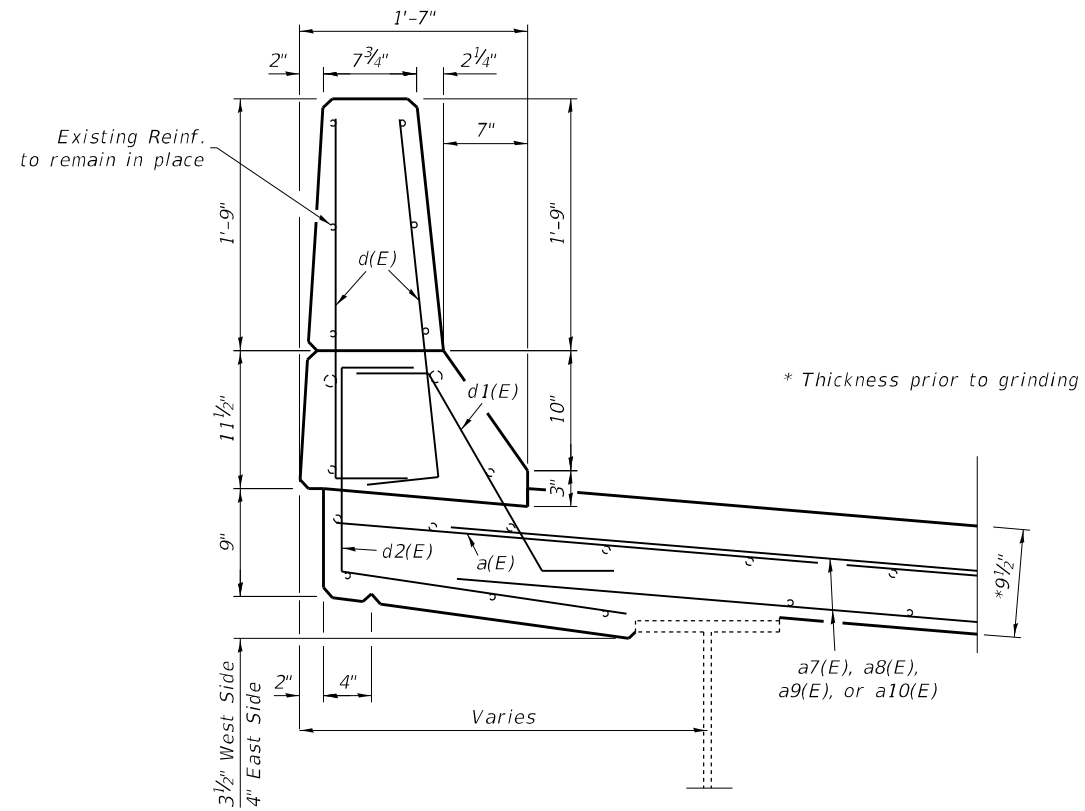
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
S.N. 025-0001**

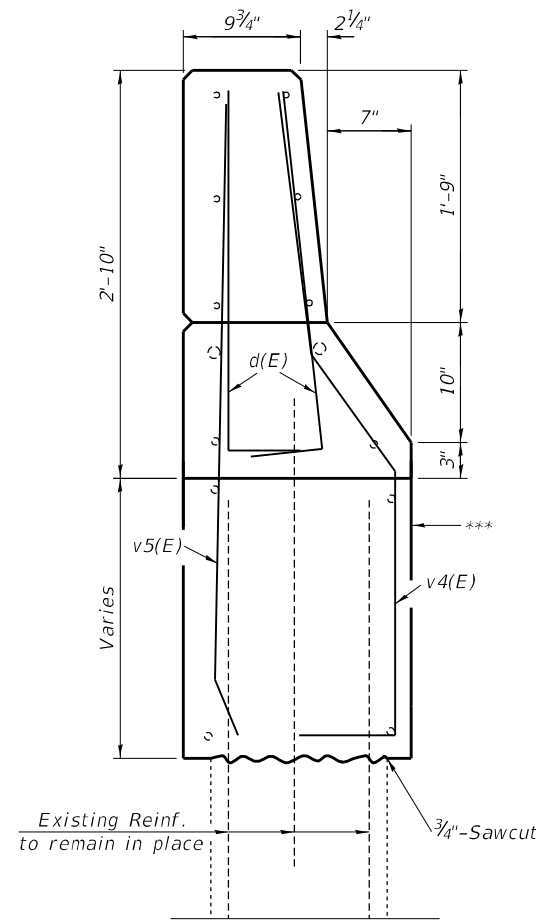
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	21
CONTRACT NO. 74A69				

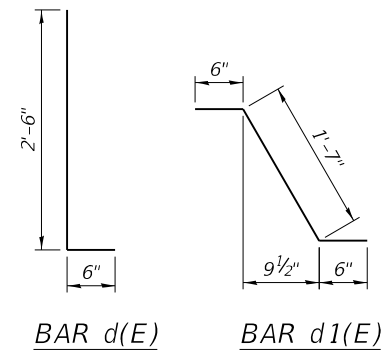
ILLINOIS FED. AID PROJECT



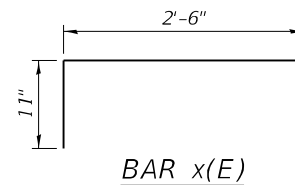
SECTION THRU DECK PARAPET



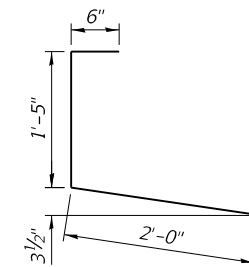
SECTION THRU APPROACH PARAPET



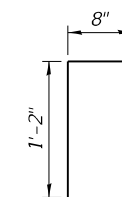
BAR d(E) BAR d1(E)



BAR x(E)

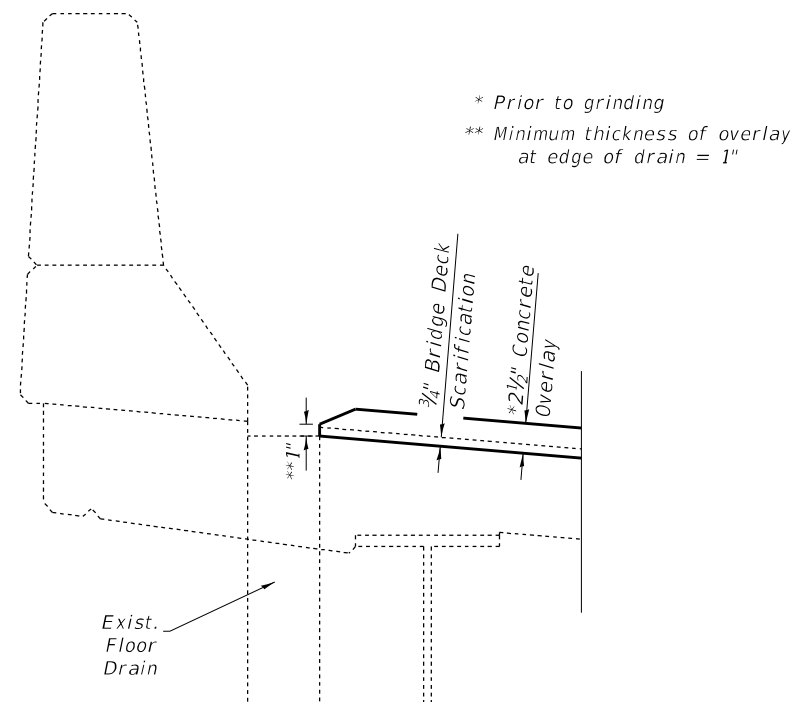


BAR d2(E)

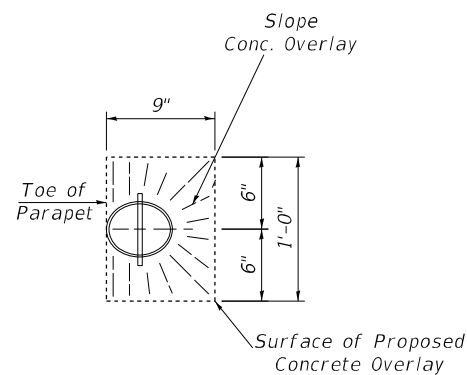


BAR u(E)

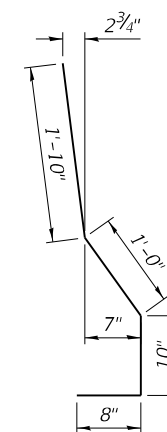
*** 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of Wingwall.



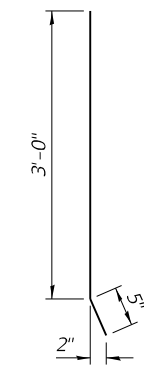
FLOOR DRAIN PRESERVATION



TOP PLAN OF FLOOR DRAIN



BAR v4(E)



BAR v5(E)

MODEL: Default
FILE: 3dmodel.pia
PROJECT: 74A69\CADD\DATA\CADD\Drawings\74A69-Sub-Structure-Repair.dwg
PROJECT: 74A69\CADD\DATA\CADD\Drawings\74A69-Sub-Structure-Repair.dwg

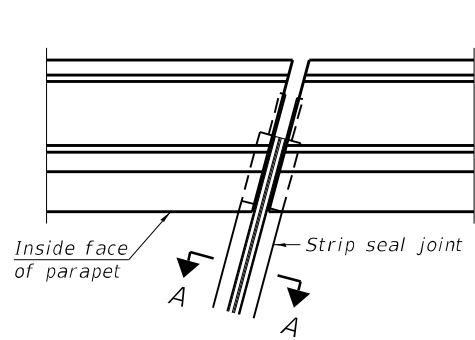
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PLOT SCALE = 100,0000' / 1 in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 9/6/2022	CHECKED - D. Macklin	REVISED -
	DATE - Dec. 2021	REVISED -

STATE OF ILLINOIS
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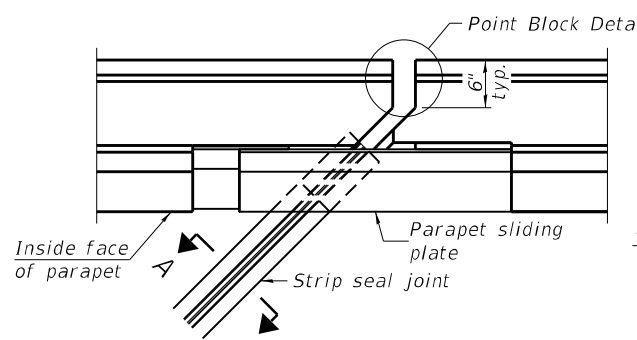
EXPANSION JOINT REPLACEMENT DETAILS
S.N. 025-0001

SCALE: 100,0000' / 1" SHEET 8 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	22
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

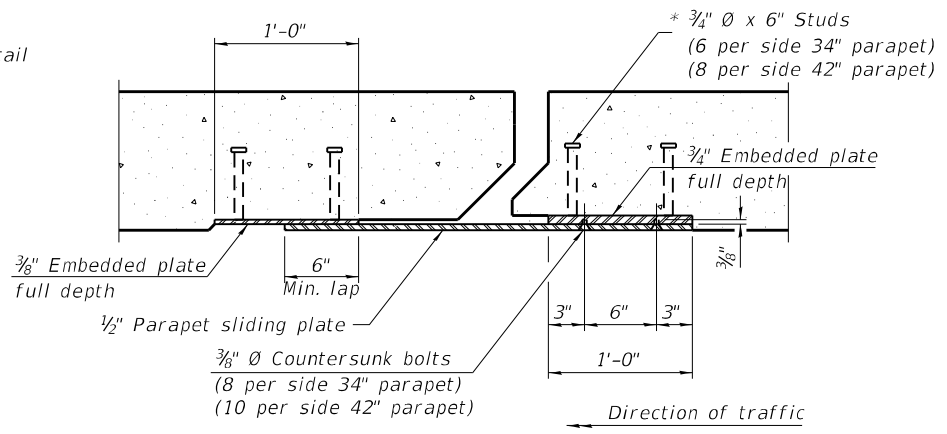


FOR SKEWS $\leq 30^\circ$



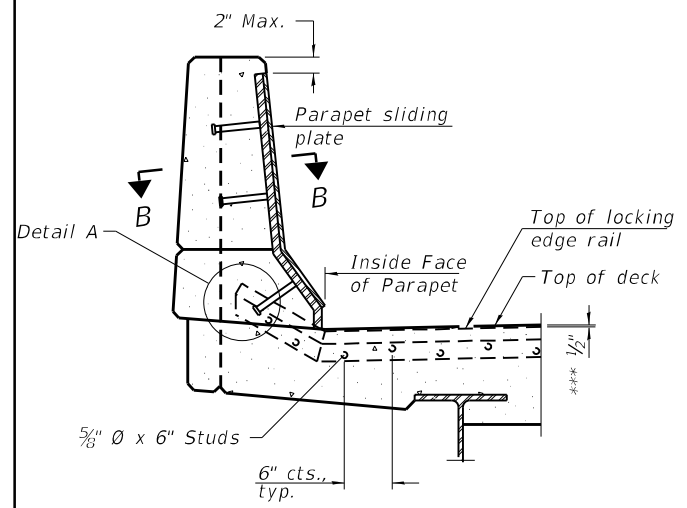
FOR SKEWS $> 30^\circ$

PLAN AT PARAPET



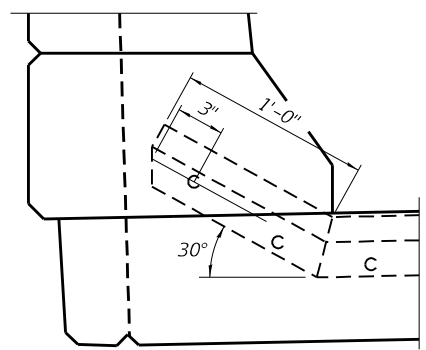
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

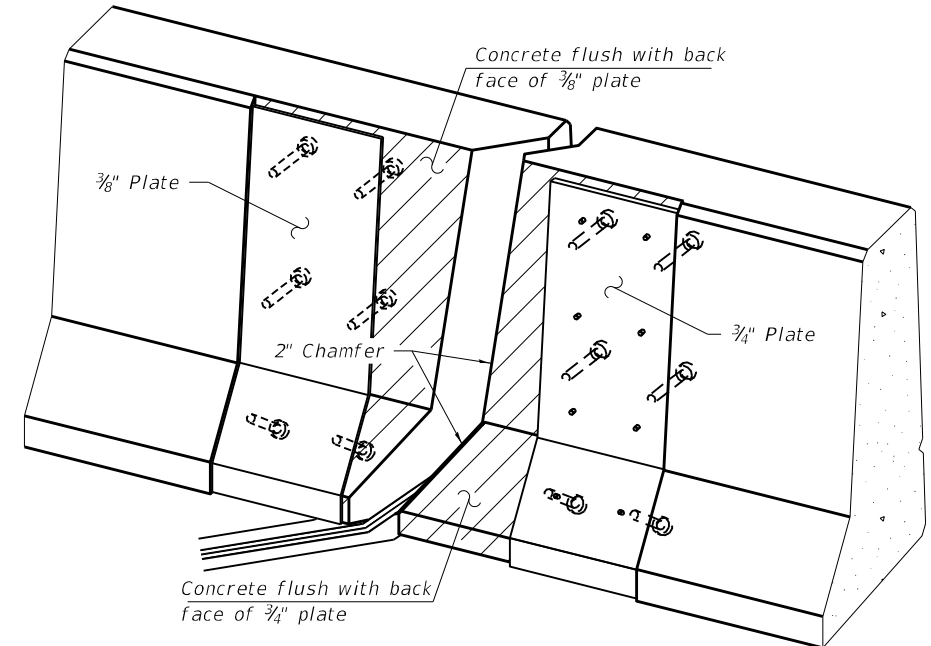


ELEVATION AT PARAPET

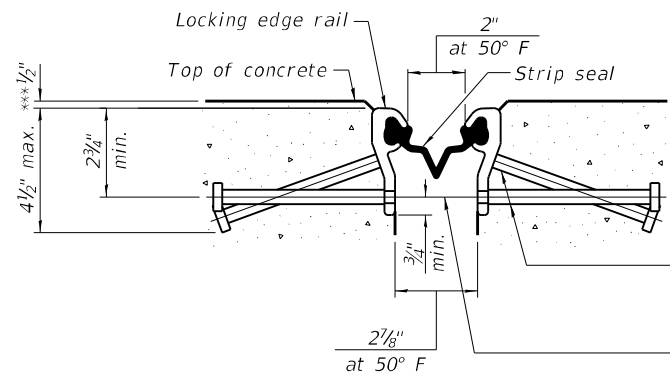
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A

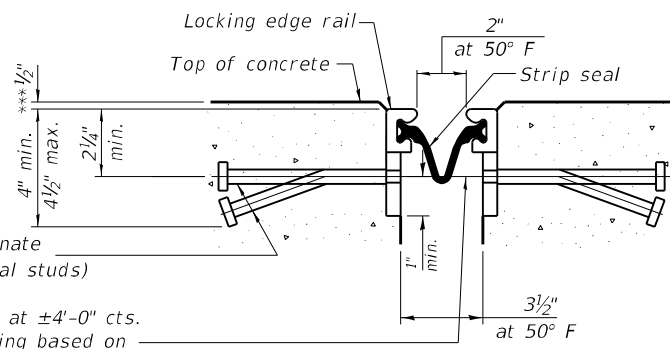


TRIMETRIC VIEW
 (Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

*** Prior to grinding



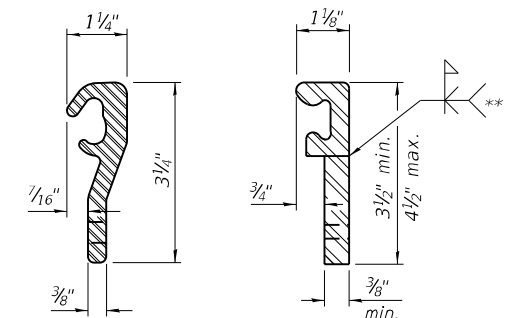
SHOWING WELDED RAIL JOINT

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

3/8" Ø threaded rods in 7/16" Ø 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.

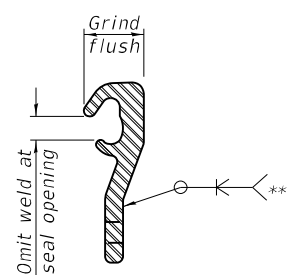
SECTION A-A

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



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	194

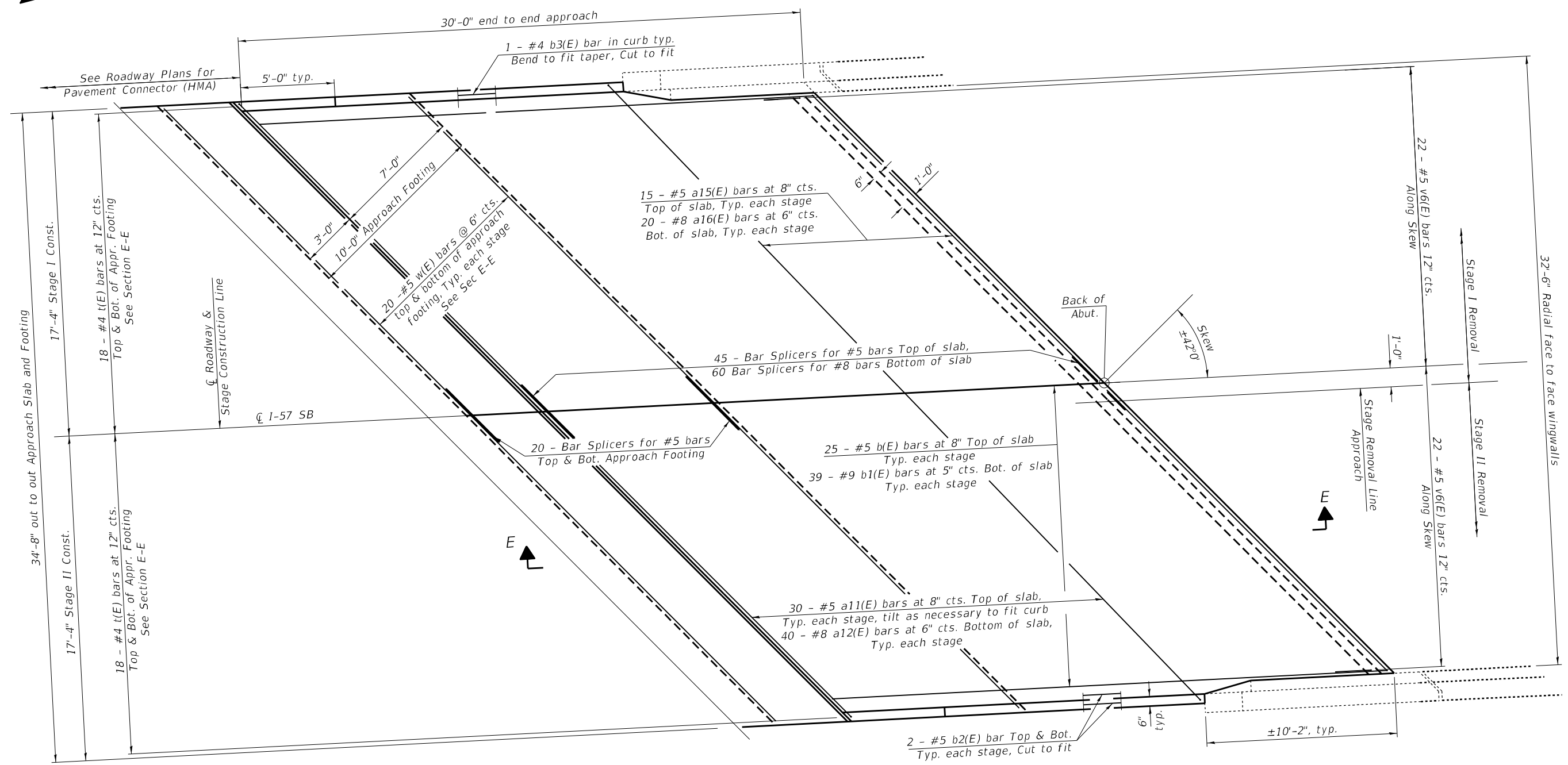
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 USER: MSteffen

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PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 9/6/2022	CHECKED - D. Macklin	REVISED -
	DATE - Dec. 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
S.N. 025-0001
 SCALE: 100,0000' / in SHEET 9 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	23
CONTRACT NO. 74A69			ILLINOIS FED. AID PROJECT	



SOUTH APPROACH PLAN

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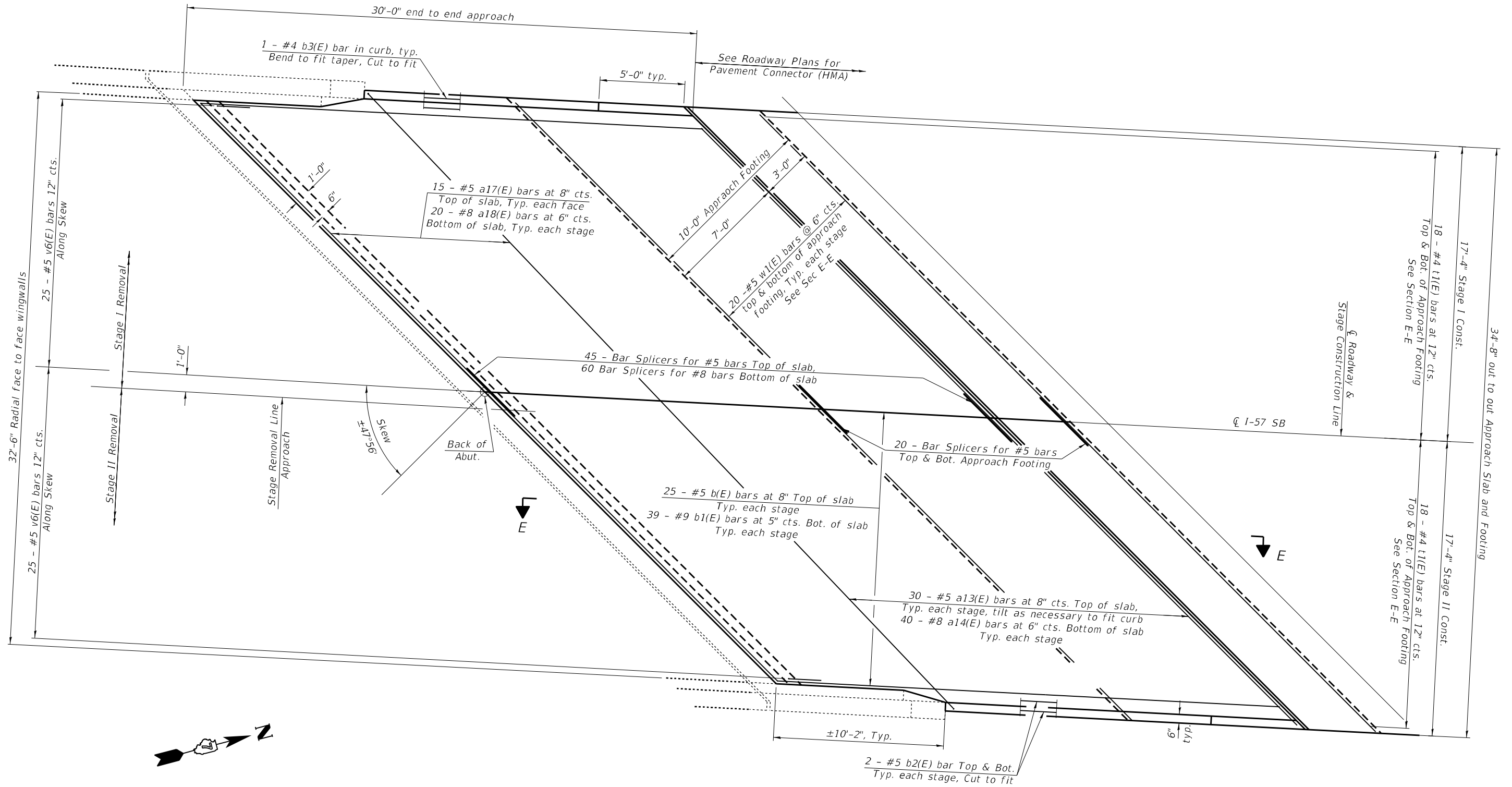
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	CHECKED - D. Macklin	REVISED -
	DATE - Dec. 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS - SHEET 1 OF 3
S.N. 025-0001**

SCALE: 100,0000' / in SHEET 10 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	24
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				



NORTH APPROACH PLAN

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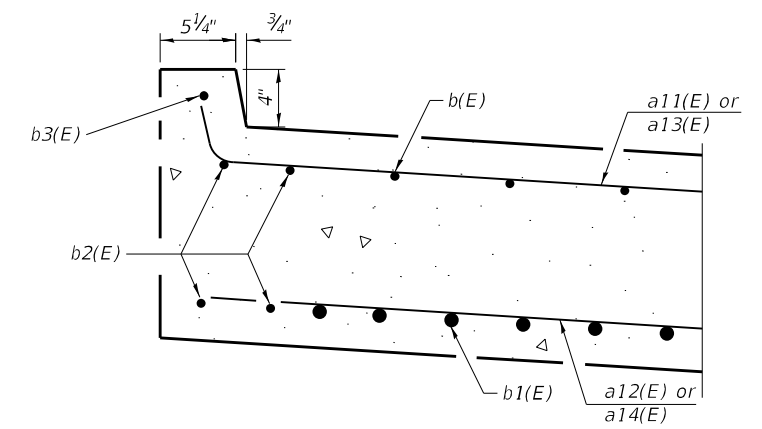
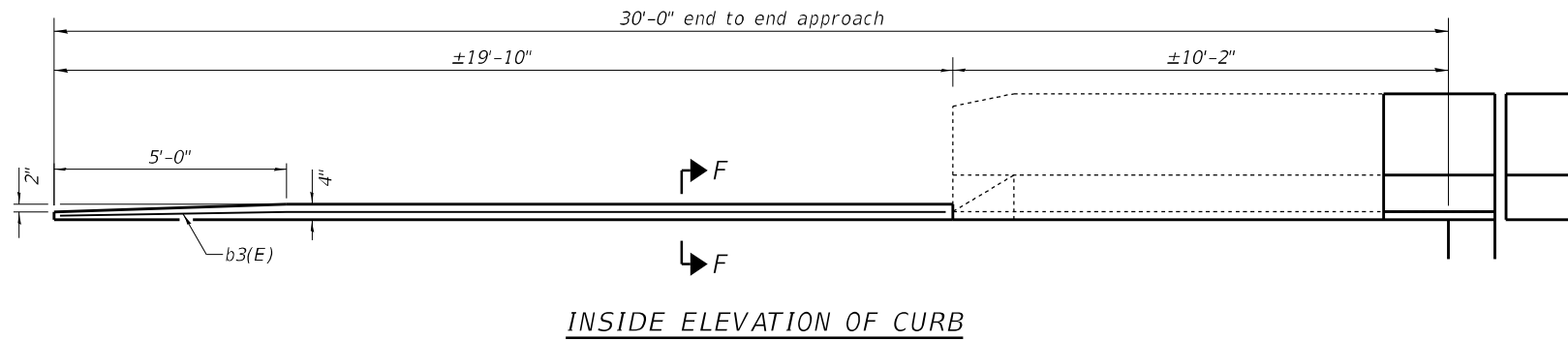
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PLOT DATE = 9/6/2022	DATE - Dec. 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

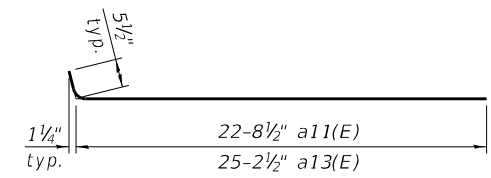
BRIDGE APPROACH SLAB DETAILS - SHEET 2 OF 3
S.N. 025-0001

SCALE: 100,0000' / in SHEET 11 OF 16 SHEETS STA. TO STA.

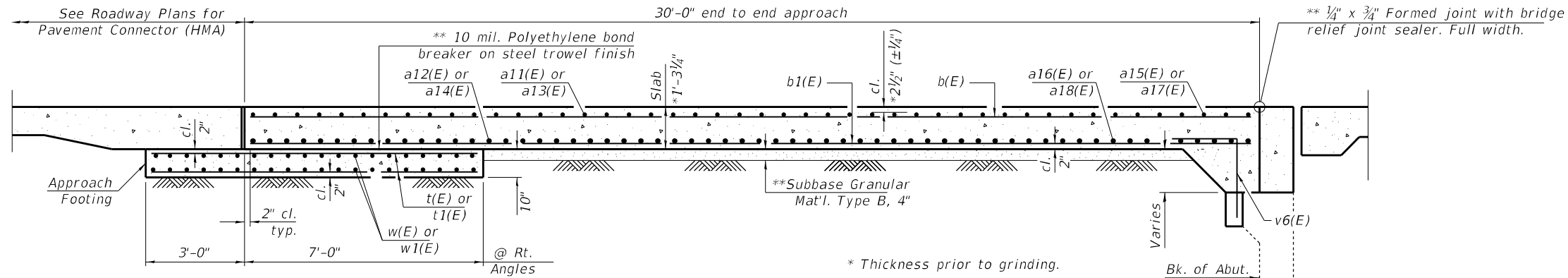
F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	25
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				



SECTION F-F



BARS a11(E) or a13(E)

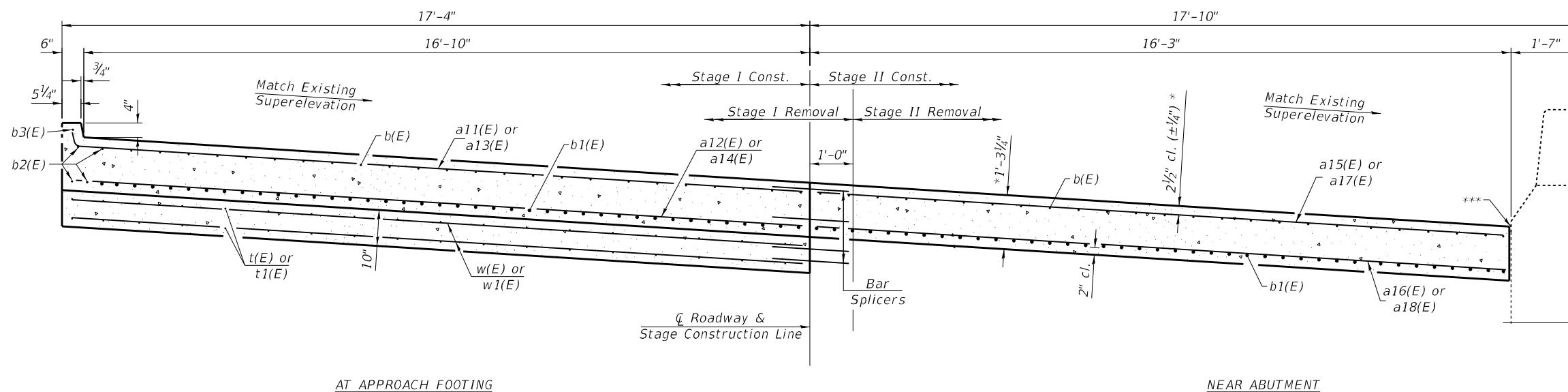


SECTION E-E

* Thickness prior to grinding.
 ** Cost included with Concrete Superstructure (Approach Slab).

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a11(E)	60	#5	23'-2"	
a12(E)	80	#8	22'-8"	
a13(E)	60	#5	25'-8"	
a14(E)	80	#8	25'-3"	
a15(E)	30	#5	21'-4"	
a16(E)	40	#8	21'-4"	
a17(E)	30	#5	23'-10"	
a18(E)	40	#8	23'-10"	
b(E)	100	#5	29'-8"	
b1(E)	156	#9	29'-8"	
b2(E)	16	#5	19'-2"	
b3(E)	4	#4	19'-2"	
t(E)	72	#4	13'-1"	
t1(E)	72	#4	14'-5"	
w(E)	80	#5	22'-8"	
w1(E)	80	#5	25'-3"	
Concrete Superstructure (Approach Slab)				Cu. Yd. 100
Concrete Structures				Cu. Yd. 30.4
Bar Splicers				Each 290
Reinforcement Bars, Epoxy Coated				Pound 44,050



CROSS SECTION
 SB Rdwy Looking North

*** 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of Wingwall.

Notes:

- Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- Approach footing concrete shall be paid for 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.

MODEL: Default
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PLOT DATE = 9/6/2022	CHECKED - D. Macklin	REVISD -
	DATE - Dec. 2021	REVISD -

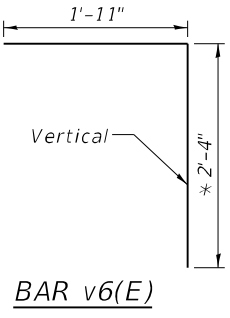
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS - SHEET 3 OF 3
 S.N. 025-0001

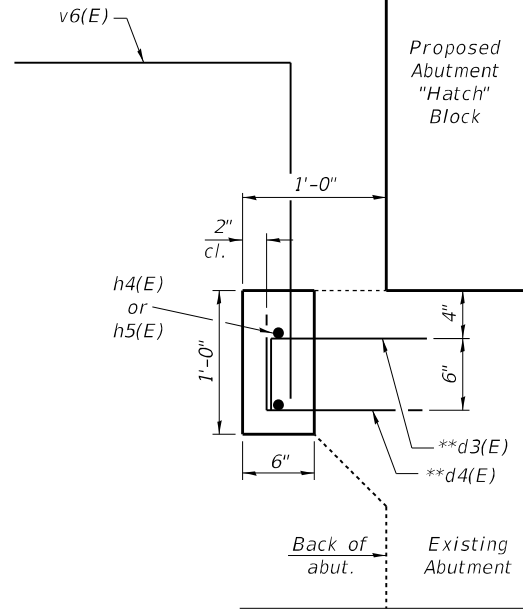
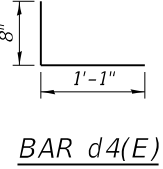
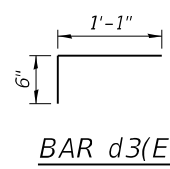
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	26
				CONTRACT NO. 74A69
ILLINOIS FED. AID PROJECT				

**Epoxy grout d3(E) & d4(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



*Cut to fit if necessary

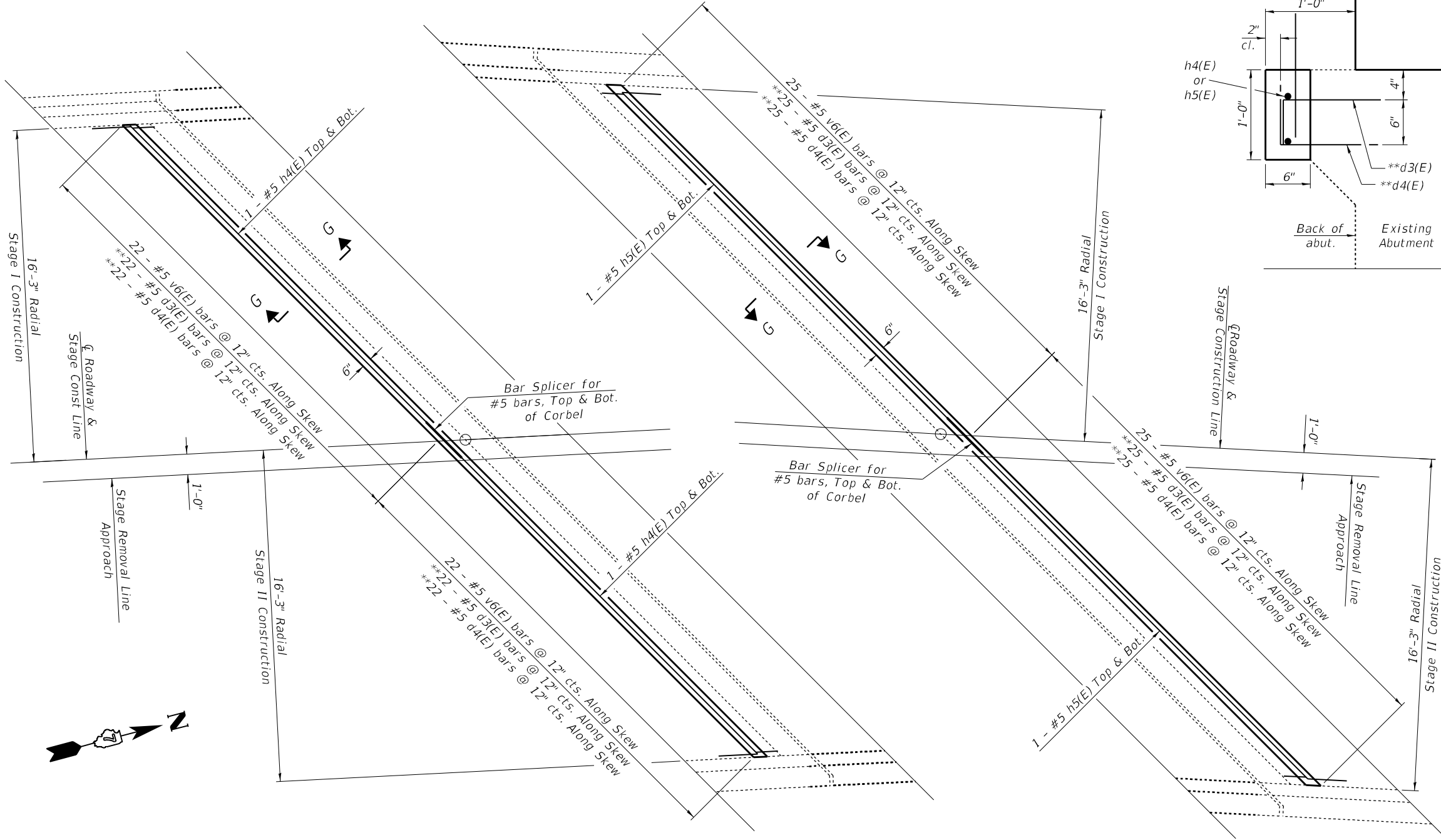


SECTION G-G

Notes:
 Abutment corbel concrete shall be paid for as Concrete Structures.
 Cost of excavation and backfill included with Concrete Structures.

BILL OF MATERIAL - TWO ABUTMENTS

Bar	No.	Size	Length	Shape
d3(E)	94	#5	1'-7"	┐
d4(E)	94	#5	1'-9"	└
h4(E)	4	#5	21'-6"	—
h5(E)	4	#5	23'-10"	—
v6(E)	94	#5	4'-3"	┐
Concrete Structures			Cu. Yd.	1.6
Reinforcement Bars, Epoxy Coated			Pound	933
Bar Splicers			Each	4



SOUTH ABUTMENT CORBEL PLAN

NORTH ABUTMENT CORBEL PLAN

MODEL: Default
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PLOT SCALE = 100,0000 ' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 9/6/2022	CHECKED - D. Macklin	REVISED -
	DATE - Dec. 2021	REVISED -

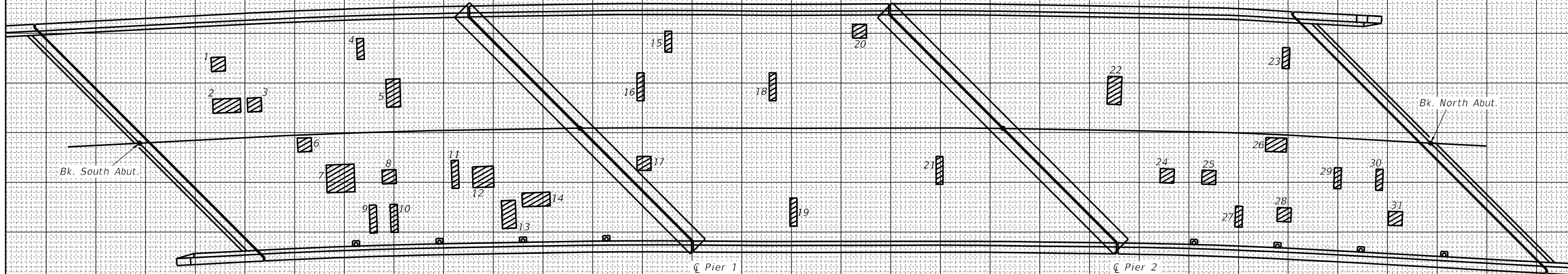
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ABUTMENT MODIFICATIONS
S.N. 025-0001

SCALE: 100,0000 ' / in SHEET 13 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	27
				CONTRACT NO. 74A69
ILLINOIS FED. AID PROJECT				

025-0001 Bridge Patching



PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
1	2.0	2.0	0.4	
2	2.0	4.0		0.9
3	2.0	2.0	0.4	
4	1.0	3.0	0.3	
5	2.0	4.0		0.9
6	2.0	2.0	0.4	
7	4.0	4.0		1.8
8	2.0	2.0	0.4	
9	1.0	4.0	0.4	
10	1.0	4.0	0.4	
11	1.0	4.0	0.4	
12	3.0	3.0		1.0
13	2.0	4.0		0.9
14	4.0	2.0		0.9
15	1.0	3.0	0.3	
16	1.0	3.0	0.3	

PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
17	2.0	2.0	0.4	
18	1.0	4.0	0.4	
19	1.0	4.0	0.4	
20	2.0	2.0	0.4	
21	1.0	4.0	0.4	
22	2.0	4.0		0.9
23	1.0	3.0	0.3	
24	2.0	2.0	0.4	
25	2.0	2.0	0.4	
26	3.0	2.0		0.7
27	1.0	3.0	0.3	
28	2.0	2.0	0.4	
29	1.0	3.0	0.3	
30	1.0	3.0	0.3	
31	2.0	2.0	0.4	
TOTAL ROUNDS TO:			10.0	8.0

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



DATE OF SURVEY: 11-08-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:
 DECK SLAB REPAIR (FULL DEPTH TYPE I)
 10.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH TYPE II)
 8.0 SQ YD

MODEL: Default
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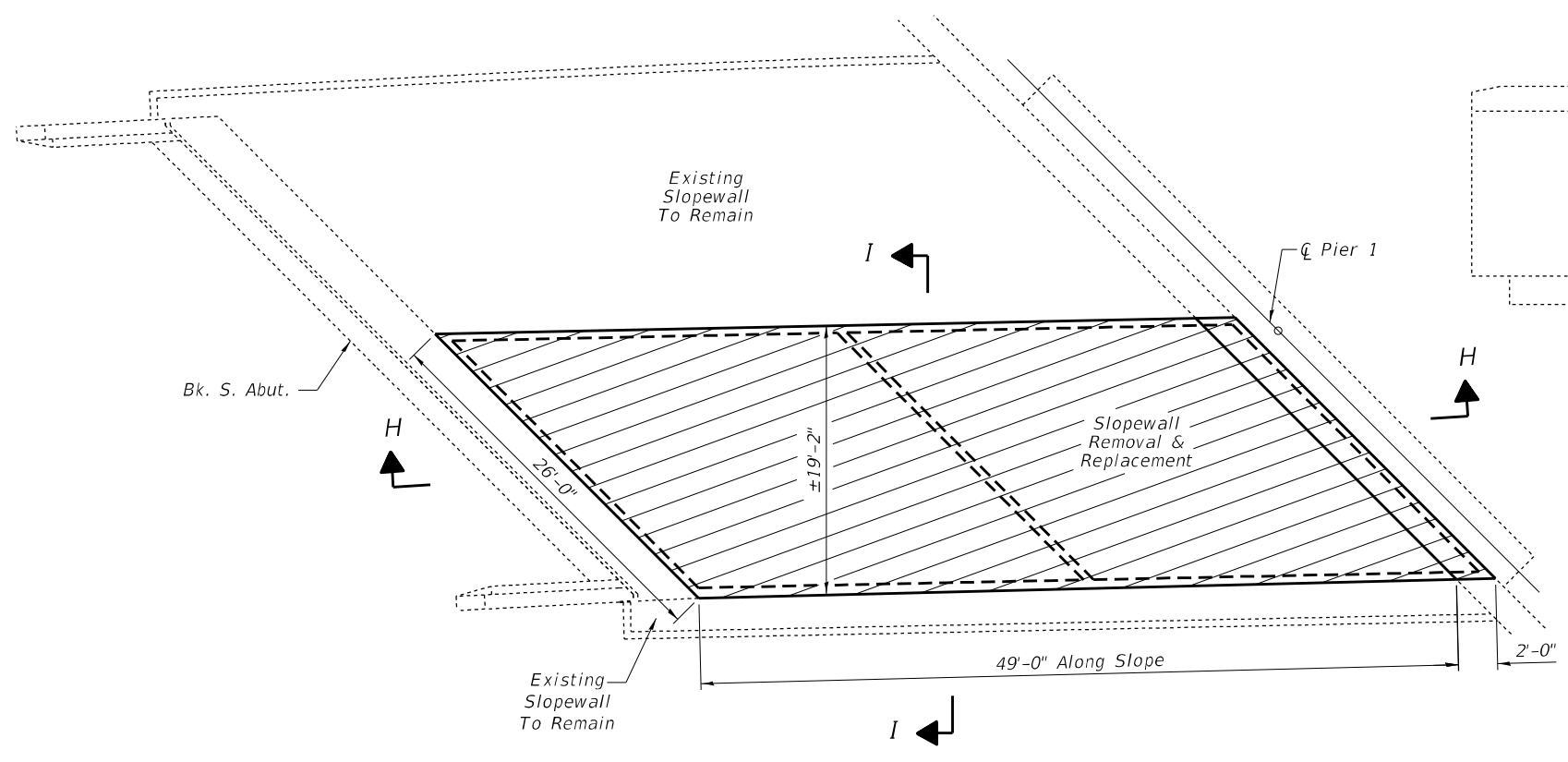
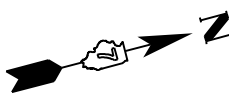
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	DATE - Dec. 2021	REVISED -

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 DEPARTMENT OF TRANSPORTATION

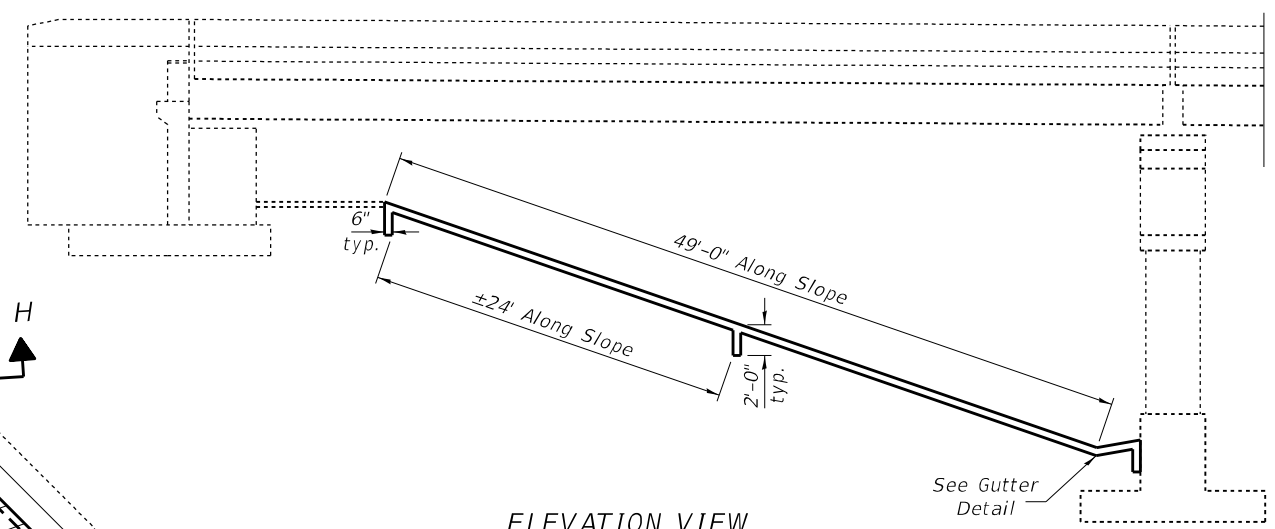
BRIDGE DECK PATCHING
 SN. 025-0001

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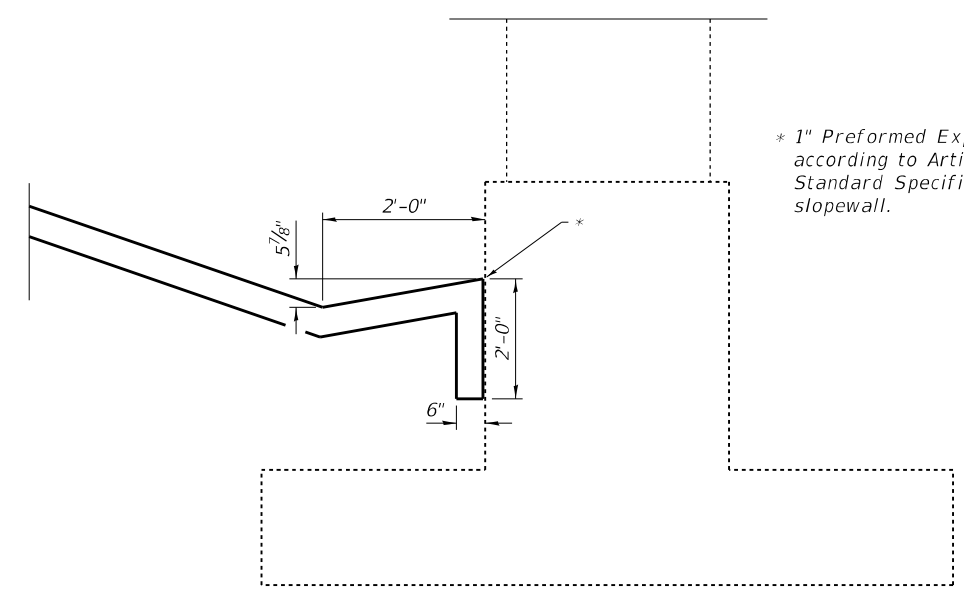
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57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	28
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				



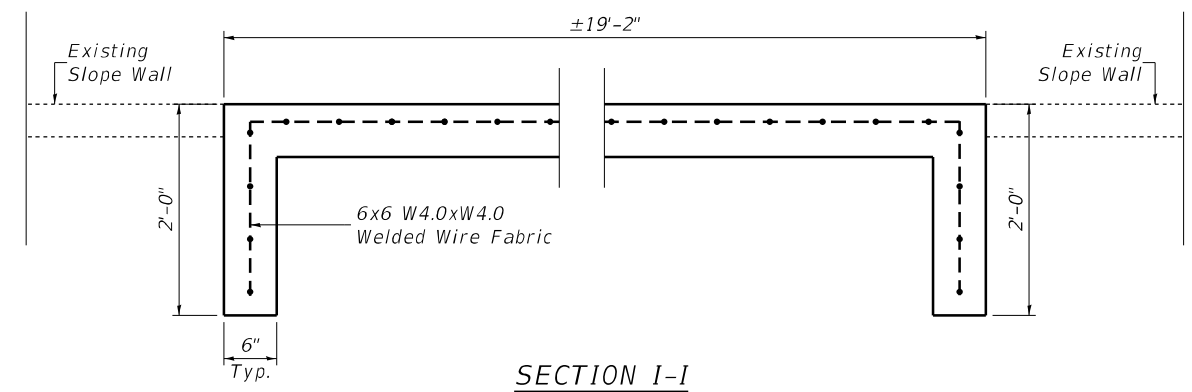
PLAN VIEW SLOPEWALL



ELEVATION VIEW SECTION H-H



GUTTER DETAIL



SECTION I-I

Notes:
 Prior to partial removal of any concrete structure a 3/4" deep saw cut shall be made along all boundaries or the removal area. Saw cuts will be included with the cost of slope wall removal.
 In areas of voids under the existing slope wall the embankment shall be reconstructed with Subbase Granular Material, Type B. The Subbase Granular Material shall be gradation CA6 unless otherwise specified by the Engineer.

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Slope Wall Removal	SQ YD	110
Slope Wall 6 Inch	SQ YD	110
Protective Coat	SQ YD	110
Subbase Granular Material, Type B	TON	73

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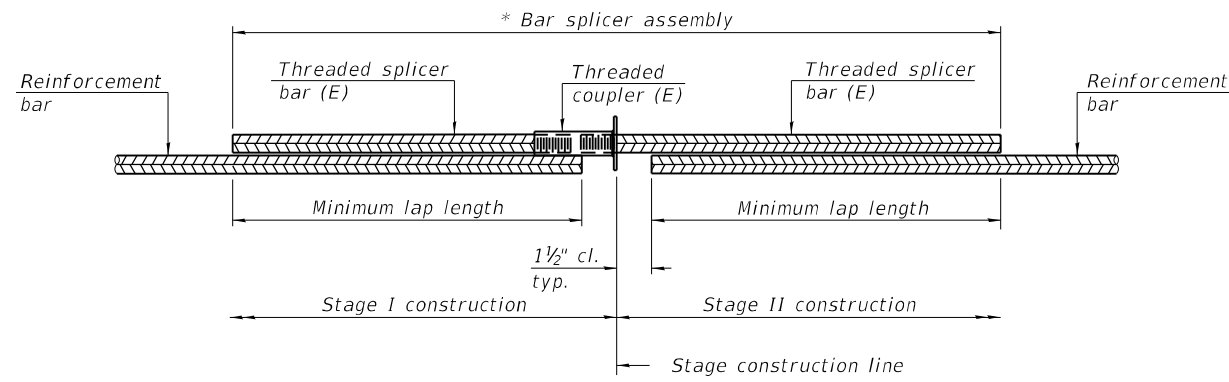
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**SOUTH SLOPEWALL REPAIR
 S.N. 025-0001**

SCALE: 100,0000' / SHEET 15 OF 16 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	29
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

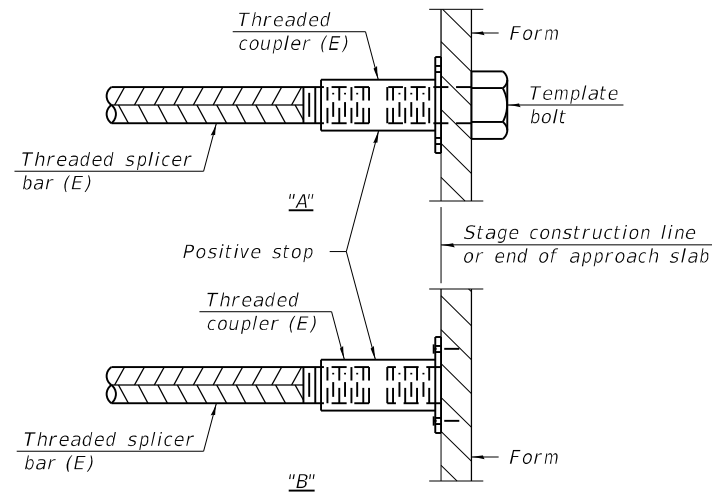


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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
Deck	#5	48	3'-6"
Abutment	#6	8	4'-0"
Abutment Corbel	#5	4	3'-2"
Approach	#5	90	3'-4"
Approach	#8	120	4'-9"
Approach Footing	#5	80	3'-0"

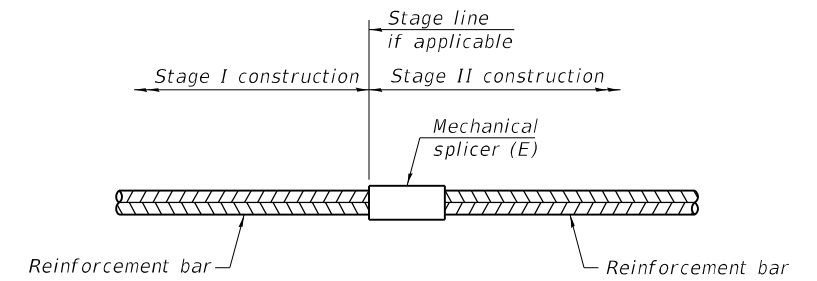


INSTALLATION AND SETTING METHODS

"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.

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BSD-1

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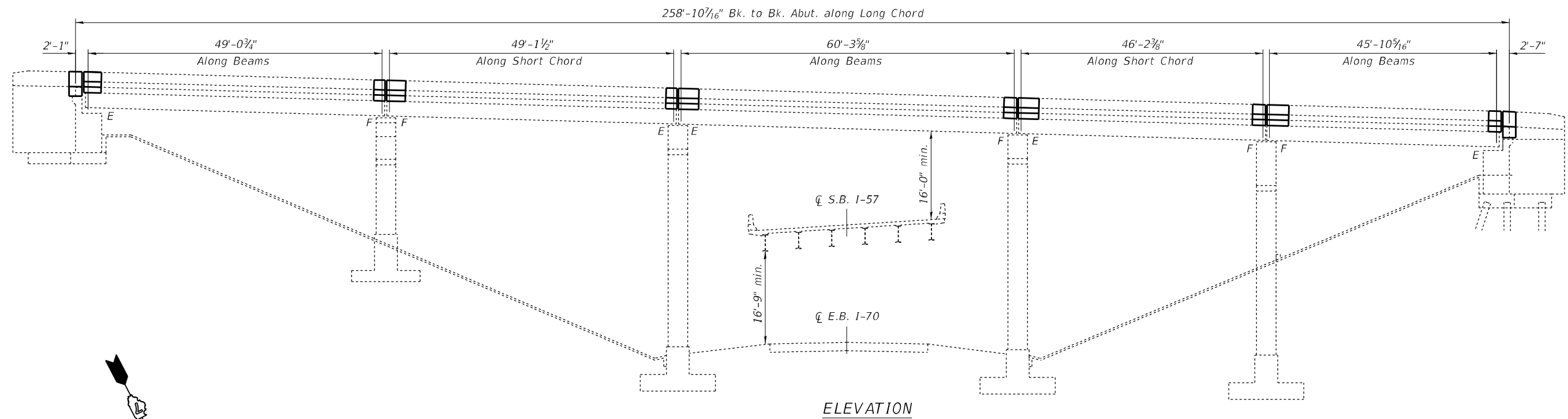
**STATE OF ILLINOIS
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**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 025-0001**

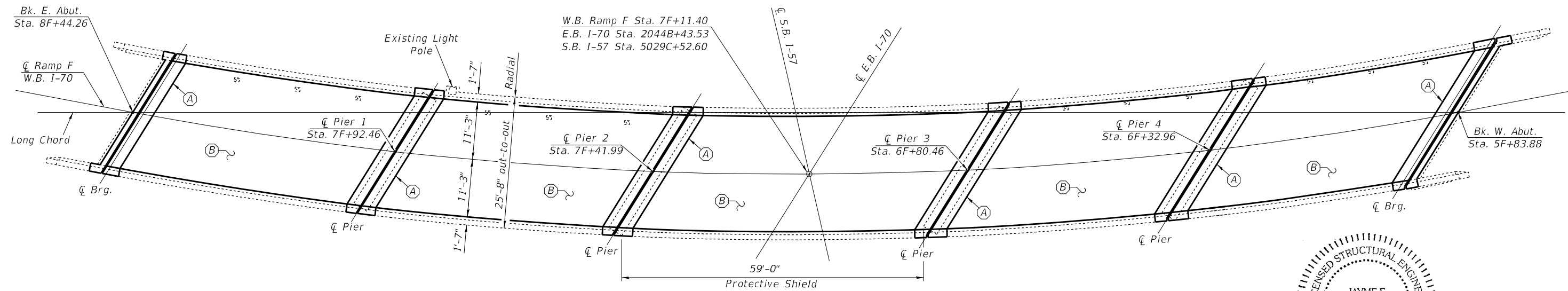
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	30
CONTRACT NO. 74A69			ILLINOIS FED. AID PROJECT	

SN 025-0018 carries I-70 W.B. Ramp F over South Bound I-57 & East Bound I-70.
 The existing five span, steel beam structure was constructed in 1960. The concrete deck was replaced and piers were repaired in 1992, and deck repairs were done in 2012.
 The proposed project consists of replacement of the expansion joints with new strip seals, scarification, deck patching, bridge deck overlay, & diamond grinding.

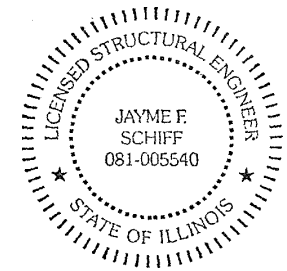


ELEVATION



PLAN

- (A) - Remove Existing Expansion Joints and Replace with Strip Seal Expansion Joints
- (B) - 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)



EXPIRES 11-30-2022

Jayme F. Schiff

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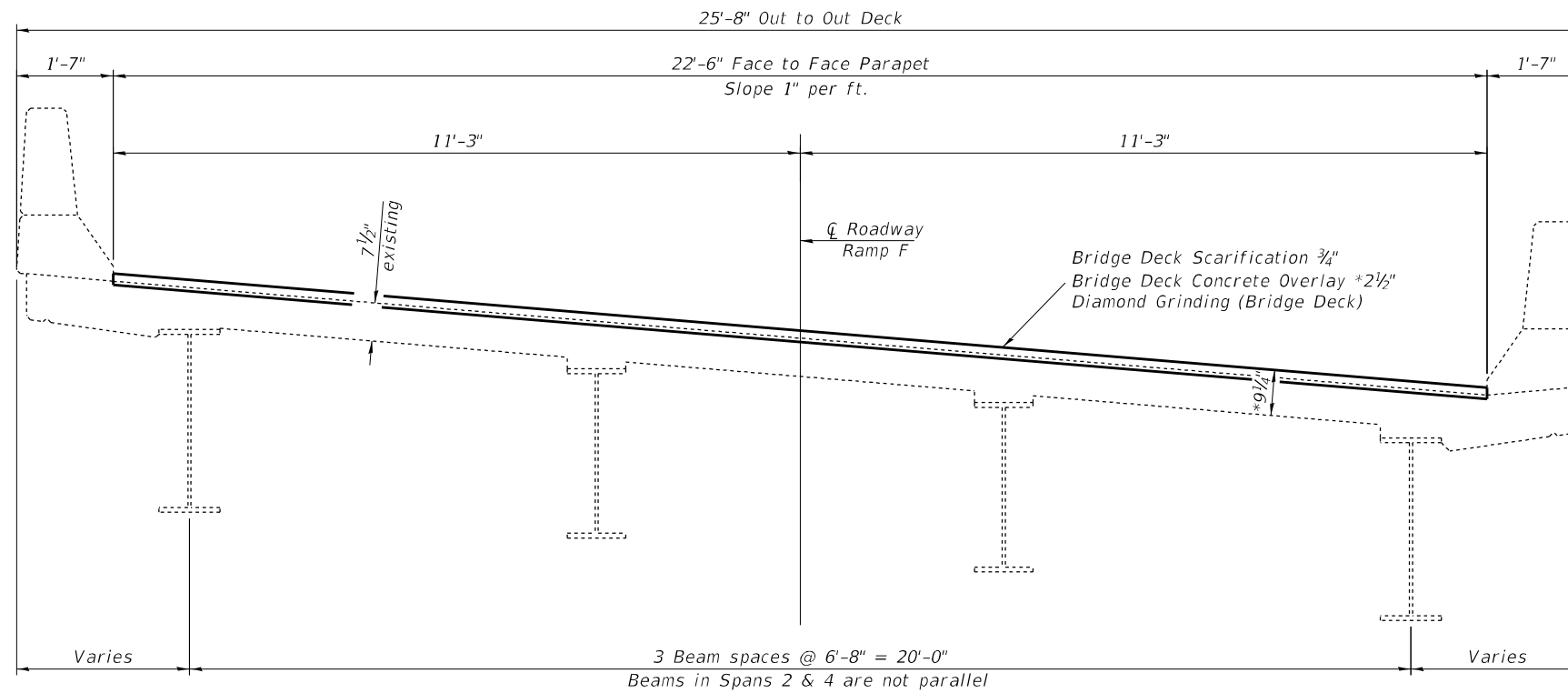
STATE OF ILLINOIS
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GENERAL PLAN & ELEVATION
 S.N. 025-0018

SCALE: 100,0000' / in SHEET 1 OF 13 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	31
CONTRACT NO. 74A69			ILLINOIS FED. AID PROJECT	

* Thickness prior to grinding



DECK CROSS SECTION
Looking East

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of 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.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced with an approved bar splicer or anchorage system. Cost included with CONCRETE REMOVAL.

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.

There is an existing aluminum light pole mounted to the top of the south parapet, adjacent to the expansion joint at Pier 1. Prior to concrete removal at this joint, the Contractor shall remove the light pole from the parapet and store it in a safe location. After the adjacent concrete parapet at the expansion joint is poured and has cured for 7 days, the Contractor shall re-erect the light pole and ensure that it is functional. Cost of this work is included with CONCRETE REMOVAL.

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

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. 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 included in the pay item covering removal of the existing concrete.

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

Proposed concrete removal on the bridge deck and the parapets at the expansion joints is intended to match or exceed the removal & replacement limits from previous expansion joint replacement. If any removal dimensions shown in these plans do not extend far enough to encompass existing construction joints from previous joint replacement, concrete removal limits shall be expanded to match the existing construction joint. The only exception will be at the existing lightpole mounting location at Pier 1 - The lightpole anchorage should be left undisturbed. Additional removal and replacement will be paid for at the unit price bid for CONCRETE REMOVAL and CONCRETE SUPERSTRUCTURE.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	43.1
Concrete Superstructure	Cu. Yd.	46.9
Reinforcement Bars, Epoxy Coated	Pound	5,220
Preformed Joint Strip Seal	Foot	174
Bridge Deck Scarification, 3/4"	Sq. Yd.	570
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/2"	Sq. Yd.	570
Diamond Grinding (Bridge Section)	Sq. Yd.	540
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	400
Protective Coat	Sq. Yd.	678
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	3.0
Protective Shield	Sq. Yd.	170
Raised Reflective Pavement Marker Removal	Each	7

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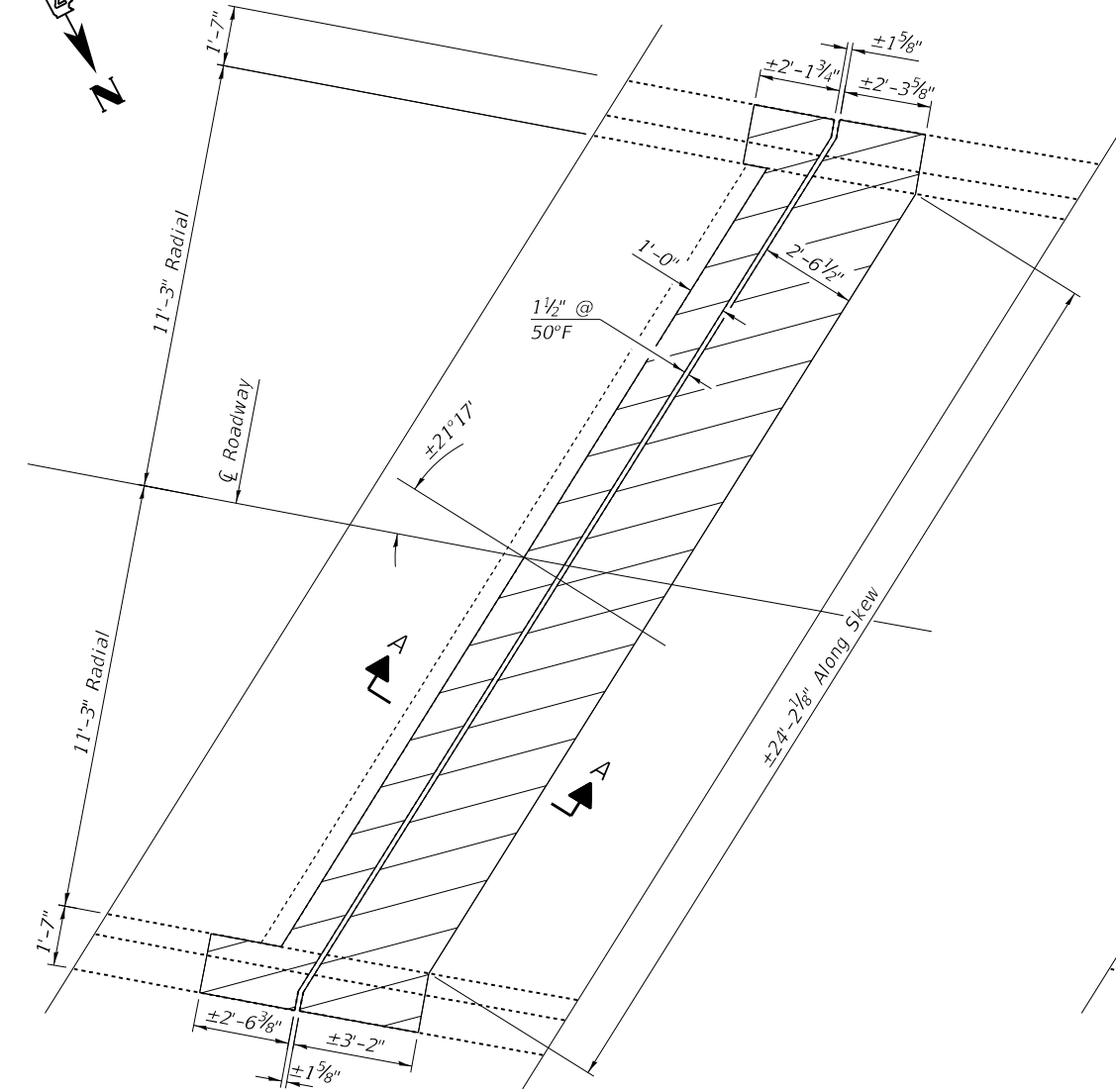
GENERAL NOTES & BILL OF MATERIALS
S.N. 025-0018

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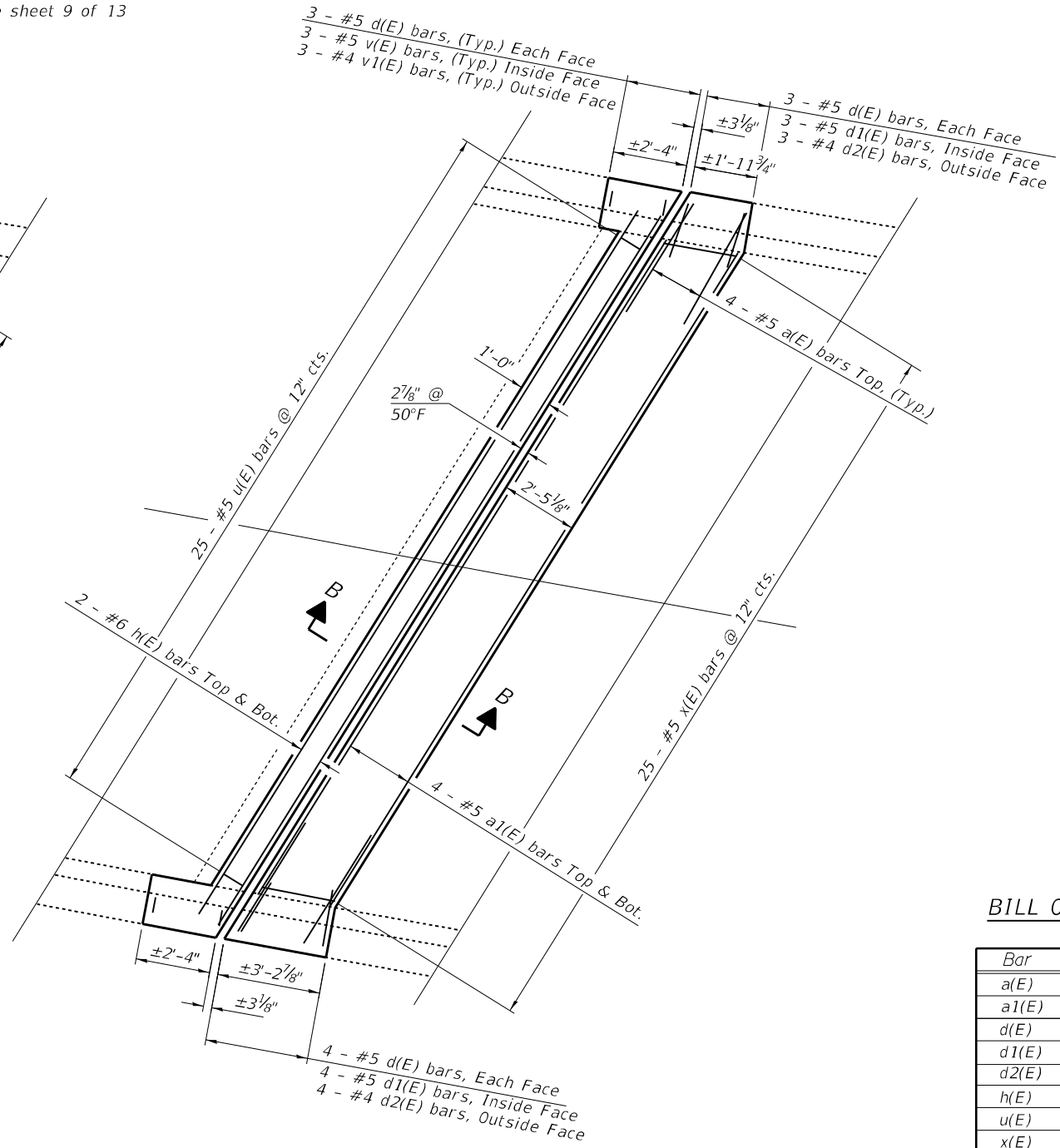
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57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	32
CONTRACT NO. 74A69			ILLINOIS FED. AID PROJECT	

Note: Hatched area indicates removal.

For Section A-A and B-B, See sheet 9 of 13



REMOVAL PLAN
East Abutment



REINFORCEMENT PLAN
East Abutment

BILL OF MATERIAL - EAST ABUT.

Bar	No.	Size	Length	Shape
a(E)	8	#5	5'-7"	—
a1(E)	8	#5	24'-2"	—
d(E)	26	#5	3'-0"	┘
d1(E)	7	#5	2'-7"	┘
d2(E)	7	#4	3'-11"	┘
h(E)	4	#6	26'-3"	—
u(E)	25	#5	3'-0"	┘
x(E)	25	#5	3'-5"	┘
v(E)	6	#5	4'-9"	┘
v1(E)	6	#4	3'-11"	┘
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	5.7	
Concrete Superstructure		Cu. Yd.	6.0	
Reinforcement Bars, Epoxy Coated		Pound	738	

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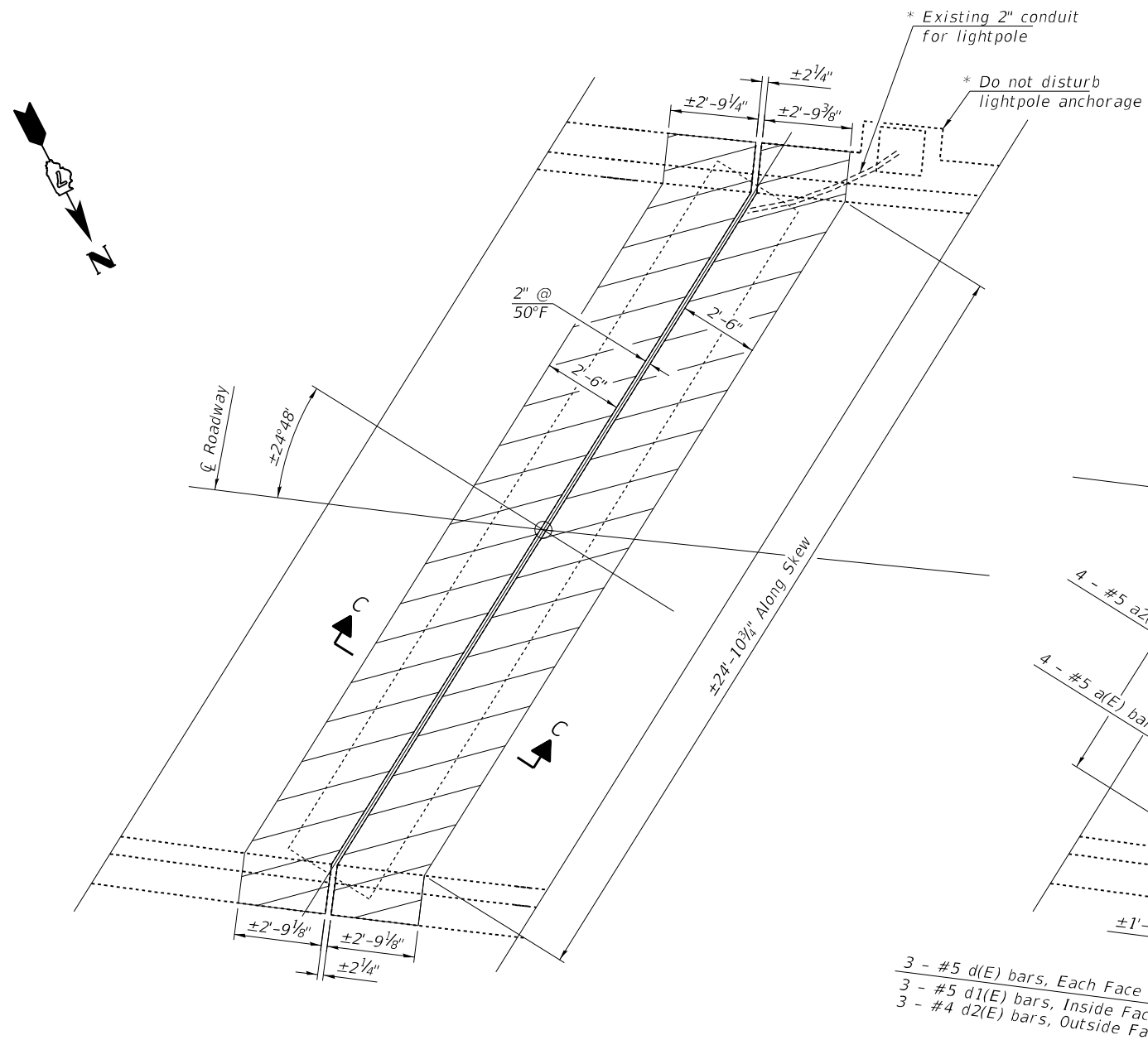
EXPANSION JOINT REPLACEMENT DETAIL
EAST ABUTMENT S.N. 025-0018

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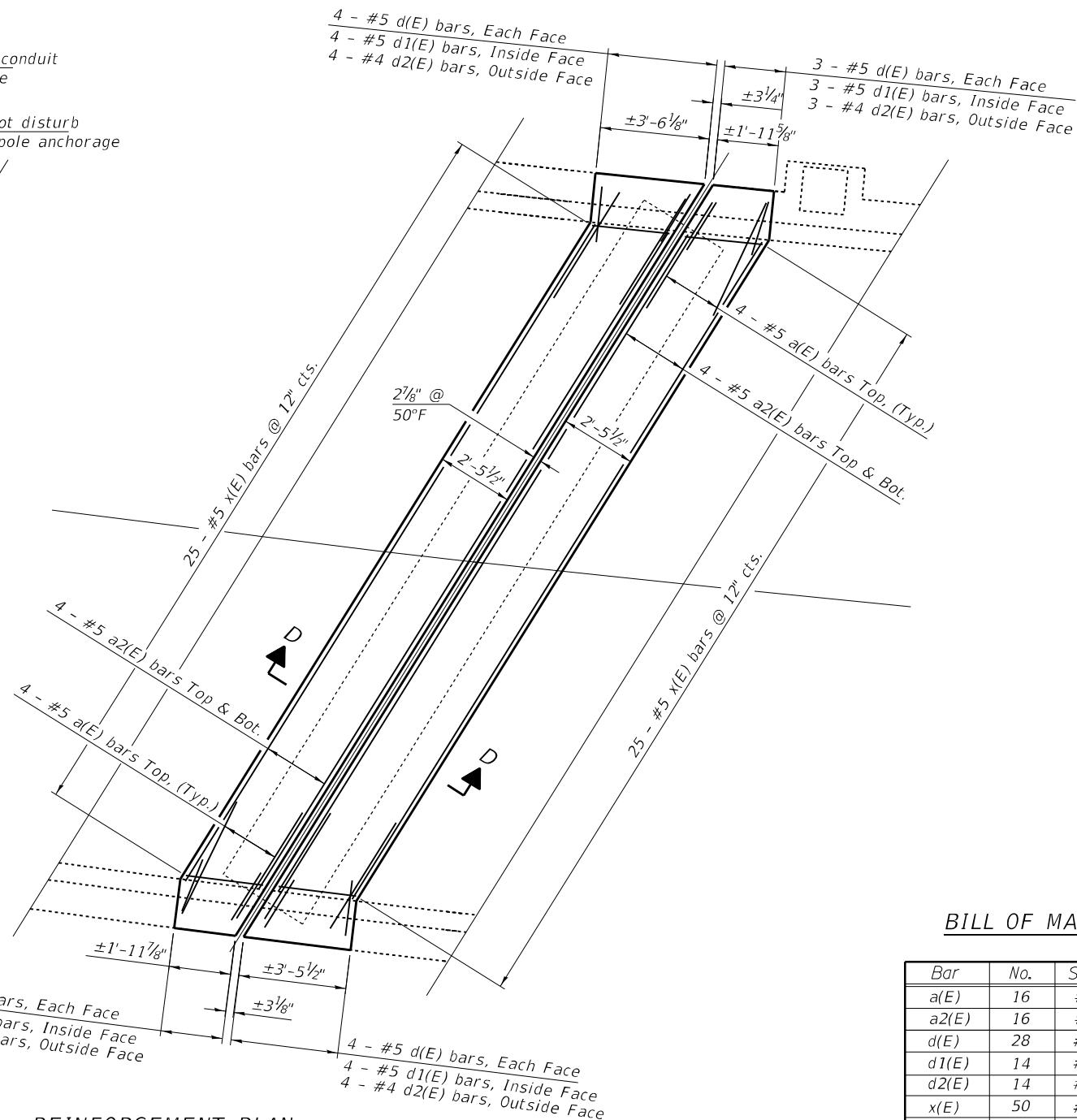
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	33
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

* Extreme caution should be exercised during concrete removal adjacent to the lightpole anchorage. The existing 2" electrical conduit shall be preserved during removal of the surrounding concrete. Any damage to the anchorage, conduit or wiring shall be repaired at the Contractor's expense.

For Section C-C and D-D, See sheet 9 of 13



REMOVAL PLAN
Pier 1



REINFORCEMENT PLAN
Pier 1

Note: Hatched area indicates removal.

BILL OF MATERIAL - PIER 1

Bar	No.	Size	Length	Shape
a(E)	16	#5	5'-7"	—
a2(E)	16	#5	24'-10"	—
d(E)	28	#5	3'-0"	┌
d1(E)	14	#5	2'-7"	└
d2(E)	14	#4	3'-11"	└
x(E)	50	#5	3'-5"	┌
ITEM	UNIT	QUANTITY		
Concrete Removal	Cu. Yd.	6.1		
Concrete Superstructure	Cu. Yd.	6.9		
Reinforcement Bars, Epoxy Coated	Pound	848		

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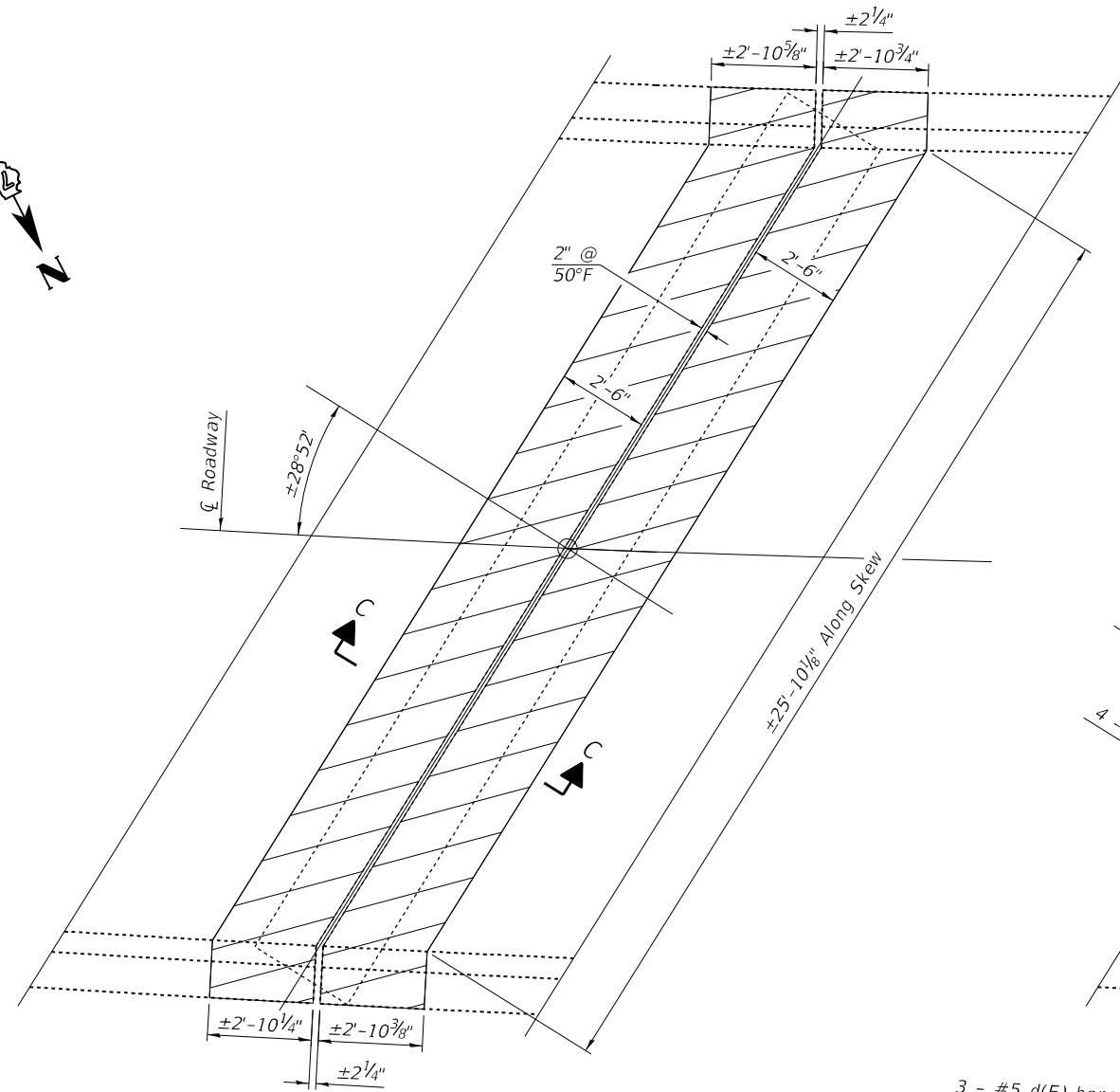
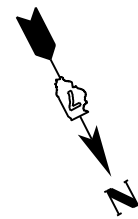
EXPANSION JOINT REPLACEMENT DETAIL
PIER 1 S.N. 025-0018

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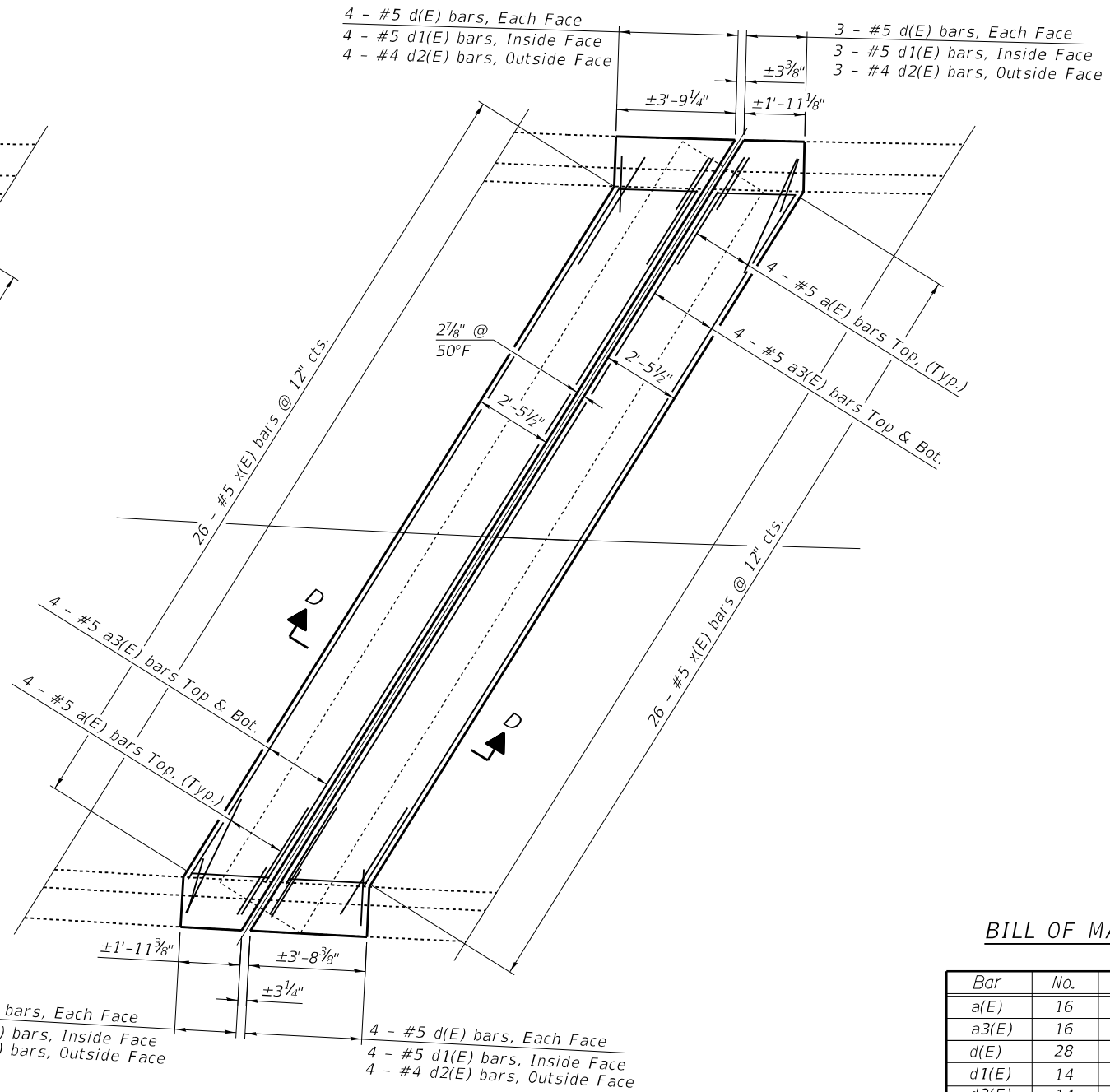
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57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	34
				CONTRACT NO. 74A69
ILLINOIS FED. AID PROJECT				

For Section C-C and D-D, See sheet 9 of 13

Note: Hatched area indicates removal.



REMOVAL PLAN
Pier 2



REINFORCEMENT PLAN
Pier 2

BILL OF MATERIAL - PIER 2

Bar	No.	Size	Length	Shape	
a(E)	16	#5	5'-7"	—	
a3(E)	16	#5	25'-10"	—	
d(E)	28	#5	3'-0"	┌	
d1(E)	14	#5	2'-7"	┌	
d2(E)	14	#4	3'-11"	┌	
x(E)	52	#5	3'-5"	┌	
			ITEM	UNIT	
			QUANTITY		
			Concrete Removal	Cu. Yd.	6.5
			Concrete Superstructure	Cu. Yd.	7.4
			Reinforcement Bars, Epoxy Coated	Pound	872

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	DATE - Dec. 2021	REVISED -

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DEPARTMENT OF TRANSPORTATION

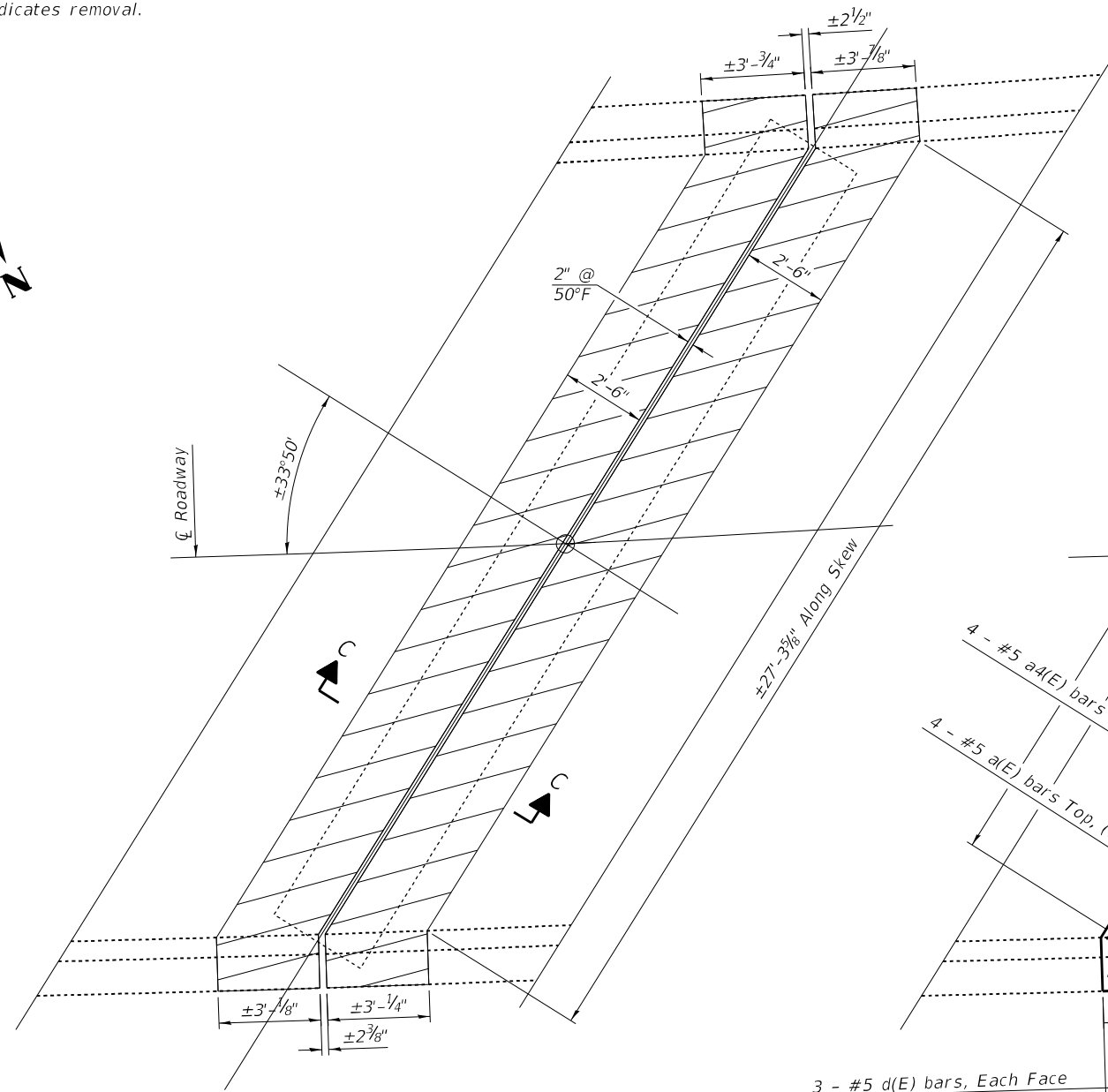
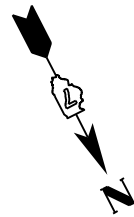
EXPANSION JOINT REPLACEMENT DETAIL
PIER 2 S.N. 025-0018

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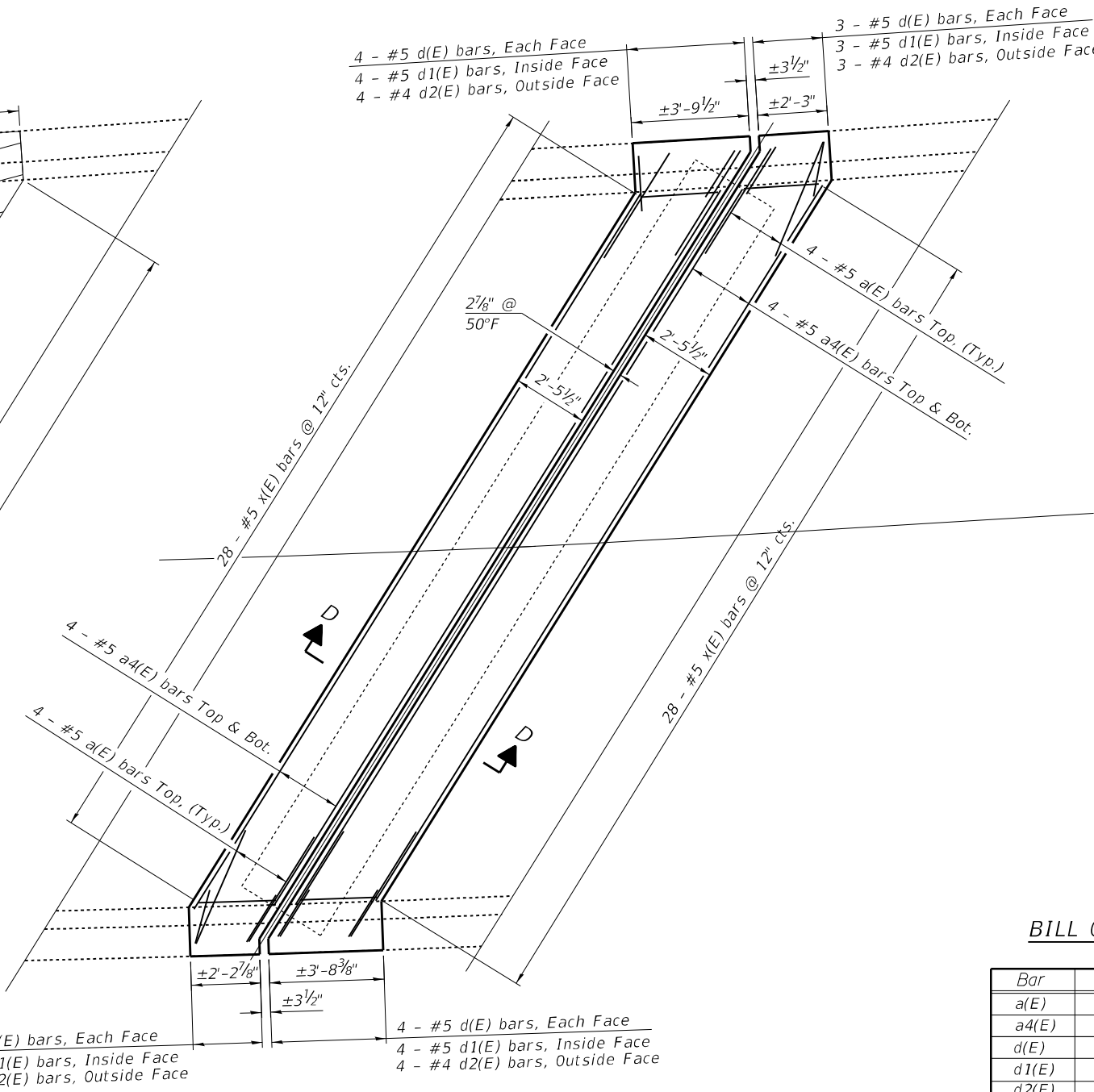
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57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A69	

For Section C-C and D-D, See sheet 9 of 13

Note: Hatched area indicates removal.



REMOVAL PLAN
Pier 3



REINFORCEMENT PLAN
Pier 3

BILL OF MATERIAL - PIER 3

Bar	No.	Size	Length	Shape
a(E)	16	#5	5'-7"	—
a4(E)	16	#5	27'-3"	—
d(E)	28	#5	3'-0"	┌
d1(E)	14	#5	2'-7"	└
d2(E)	14	#4	3'-11"	┌
x(E)	56	#5	3'-5"	┌
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	8.6	
Concrete Superstructure		Cu. Yd.	9.4	
Reinforcement Bars, Epoxy Coated		Pound	910	

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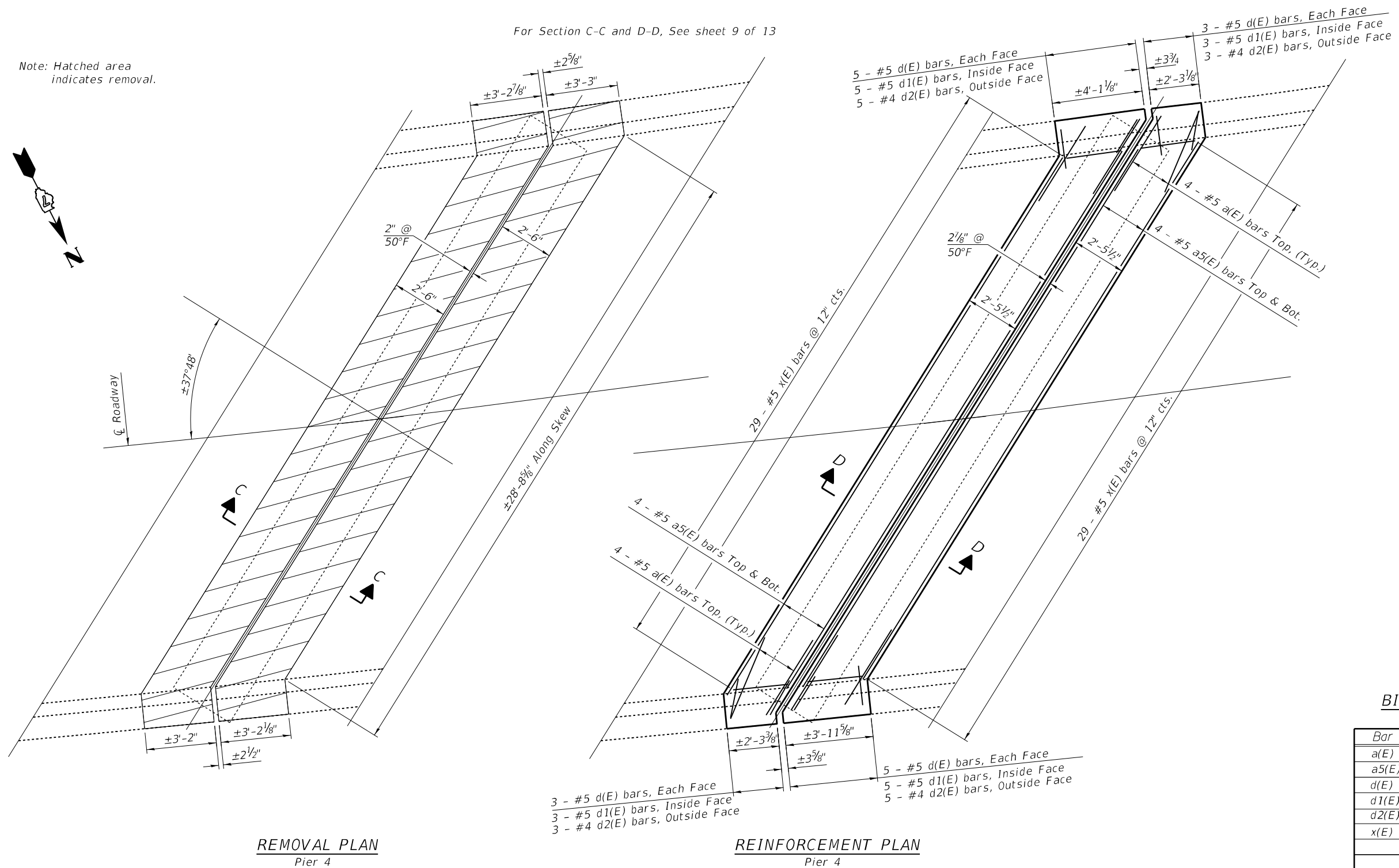
**EXPANSION JOINT REPLACEMENT DETAIL
PIER 3 S.N. 025-0018**

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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	36
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

For Section C-C and D-D, See sheet 9 of 13

Note: Hatched area indicates removal.



REMOVAL PLAN
Pier 4

REINFORCEMENT PLAN
Pier 4

BILL OF MATERIAL - PIER 4

Bar	No.	Size	Length	Shape
a(E)	16	#5	5'-7"	—
a5(E)	16	#5	28'-8"	—
d(E)	32	#5	3'-0"	┌
d1(E)	16	#5	2'-7"	└
d2(E)	16	#4	3'-11"	└
x(E)	58	#5	3'-5"	┌
ITEM	UNIT	QUANTITY		
Concrete Removal	Cu. Yd.	9.1		
Concrete Superstructure	Cu. Yd.	9.9		
Reinforcement Bars, Epoxy Coated	Pound	964		

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	DATE - Dec. 2021	REVISED -

STATE OF ILLINOIS
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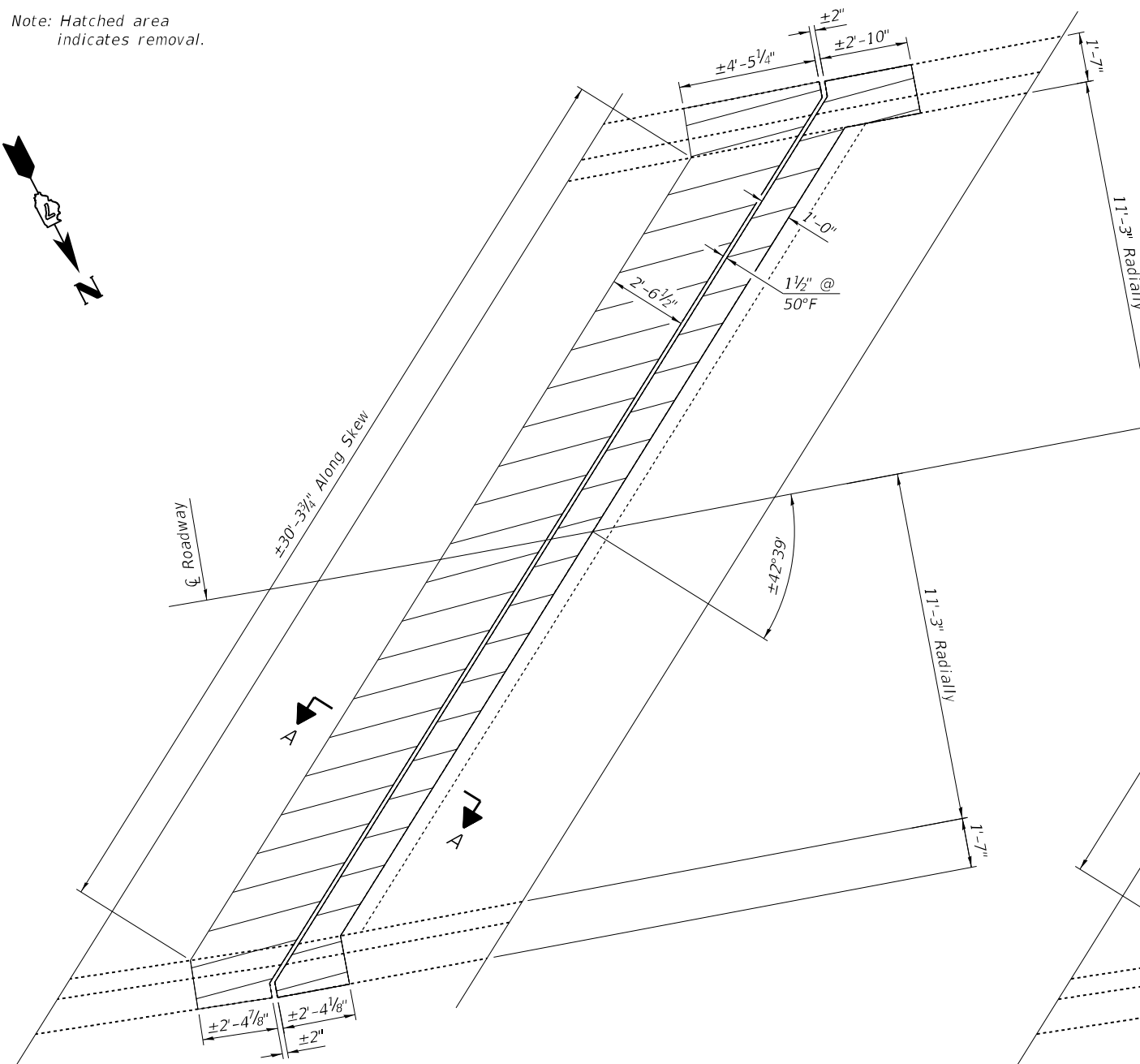
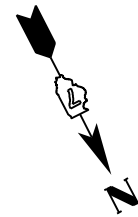
EXPANSION JOINT REPLACEMENT DETAIL
PIER 4 S.N. 025-0018

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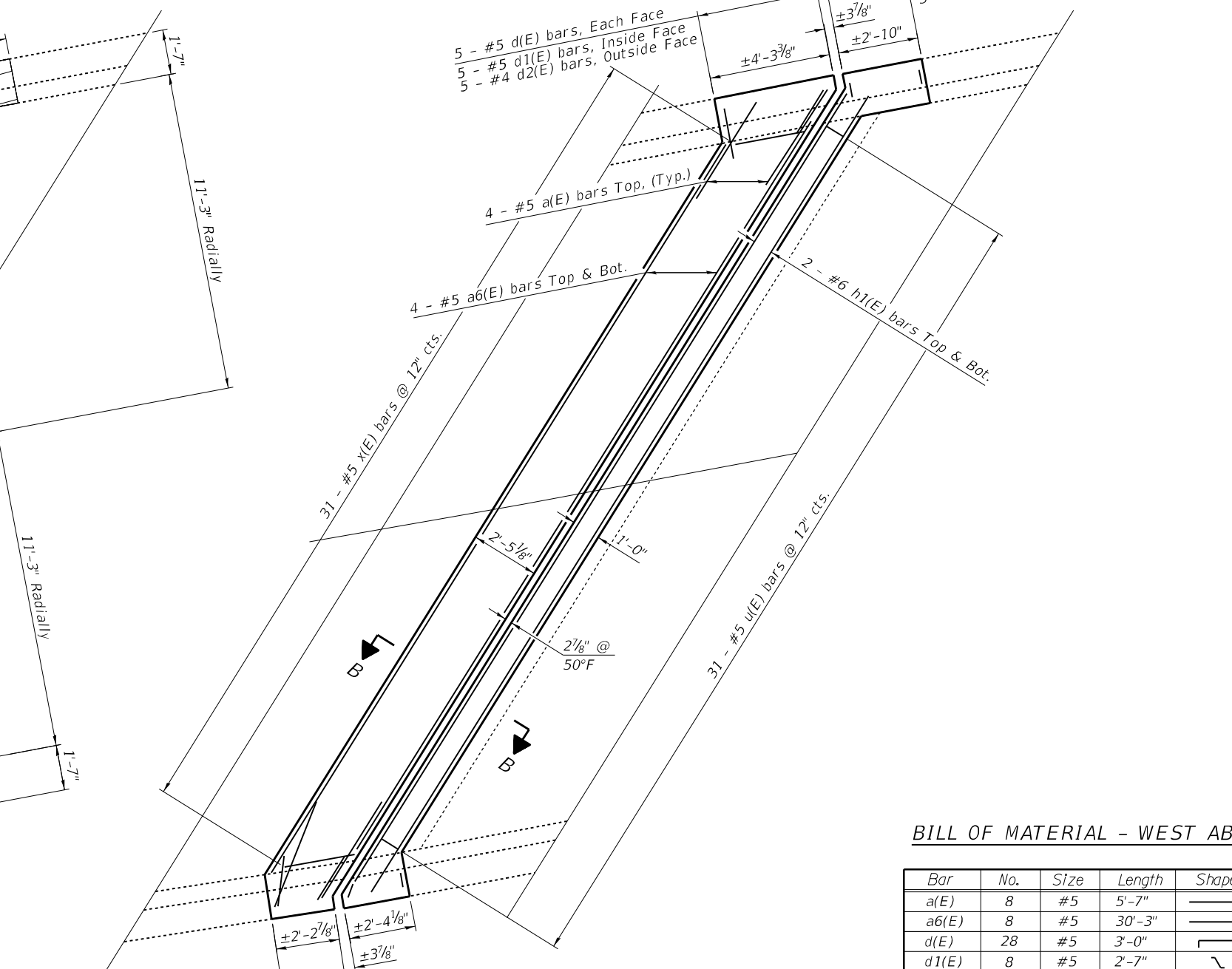
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A69	

For Section A-A and B-B, See sheet 9 of 13

Note: Hatched area indicates removal.



REMOVAL PLAN
West Abutment



REINFORCEMENT PLAN
West Abutment

BILL OF MATERIAL - WEST ABUT.

Bar	No.	Size	Length	Shape
a(E)	8	#5	5'-7"	—
a6(E)	8	#5	30'-3"	—
d(E)	28	#5	3'-0"	┌
d1(E)	8	#5	2'-7"	┌
d2(E)	8	#4	3'-11"	┌
h1(E)	4	#6	33'-0"	—
u(E)	31	#5	3'-0"	□
x(E)	31	#5	3'-5"	┌
v(E)	6	#5	4'-9"	┌
v1(E)	6	#4	3'-11"	—
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	7.0	
Concrete Superstructure		Cu. Yd.	7.4	
Reinforcement Bars, Epoxy Coated		Pound	881	

MODEL: Default
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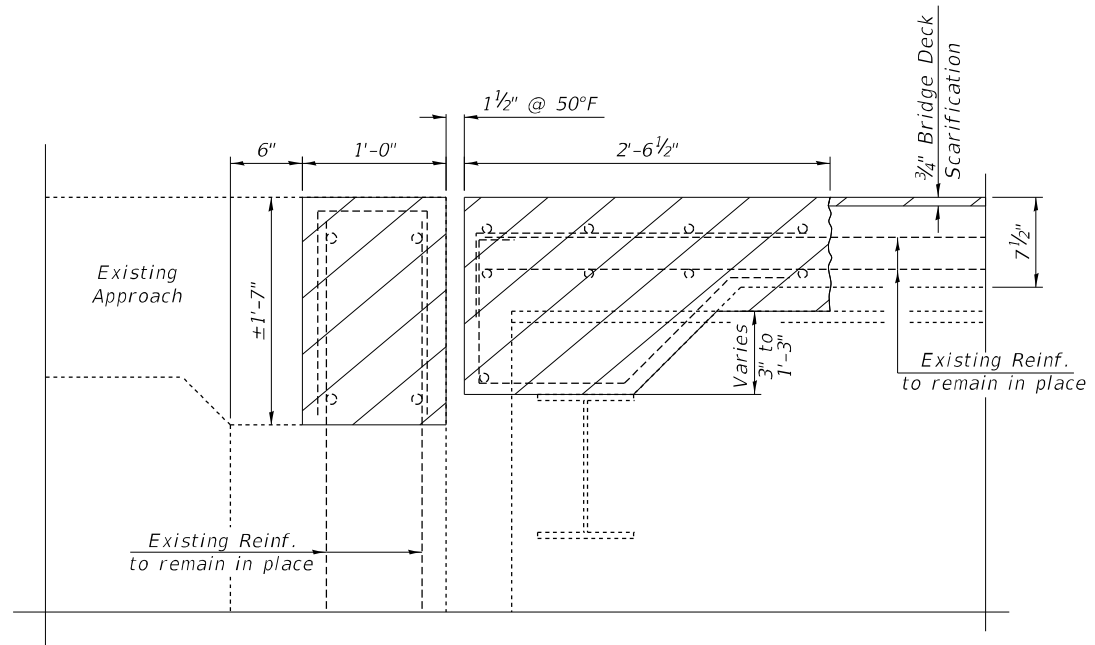
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PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 9/6/2022	CHECKED - D. Macklin	REVISED -
	DATE - Dec. 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

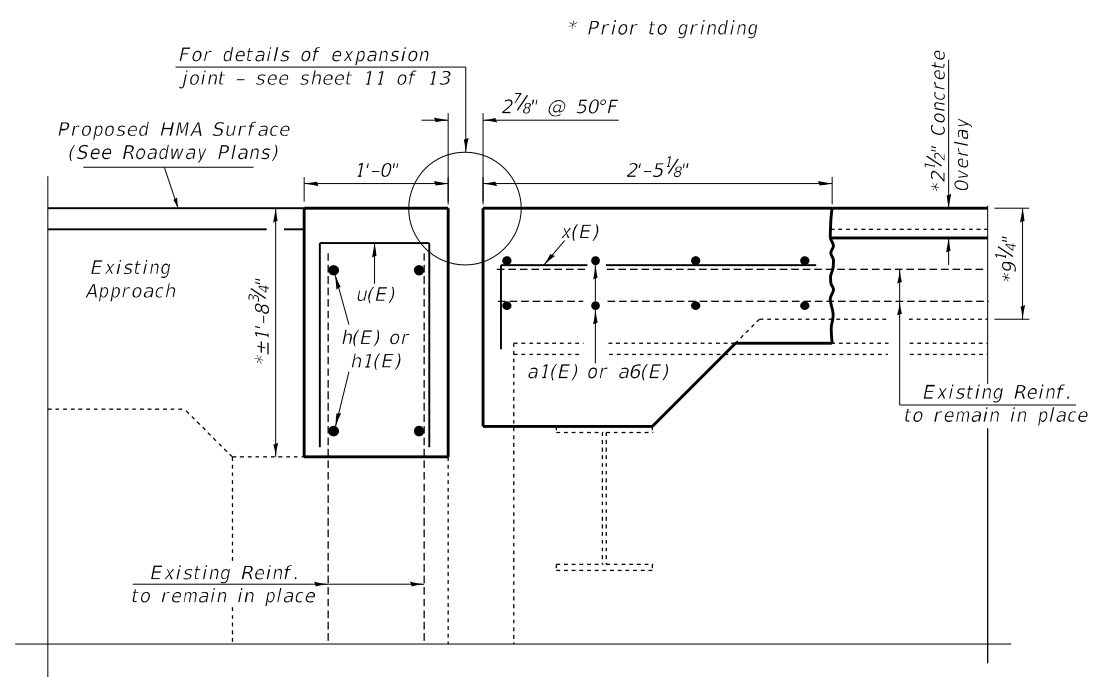
EXPANSION JOINT REPLACEMENT DETAIL
WEST ABUTMENT S.N. 025-0018

SCALE: 100,0000' / in SHEET 8 OF 13 SHEETS STA. TO STA.

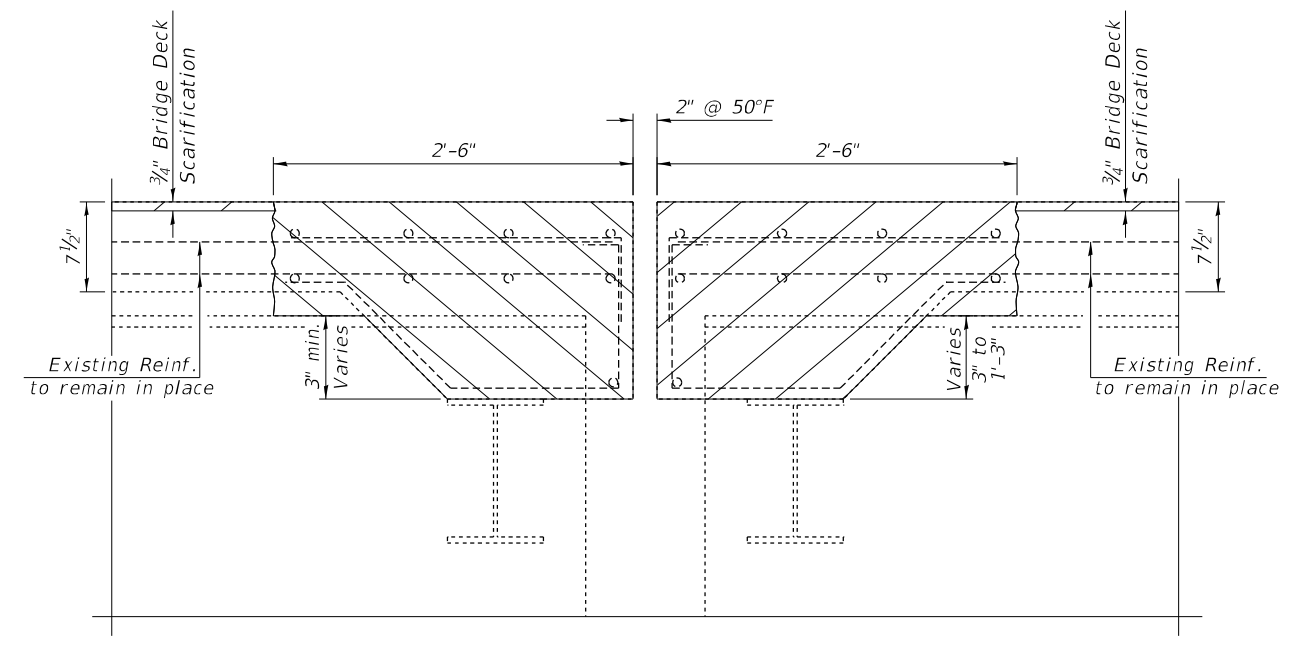
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A69	



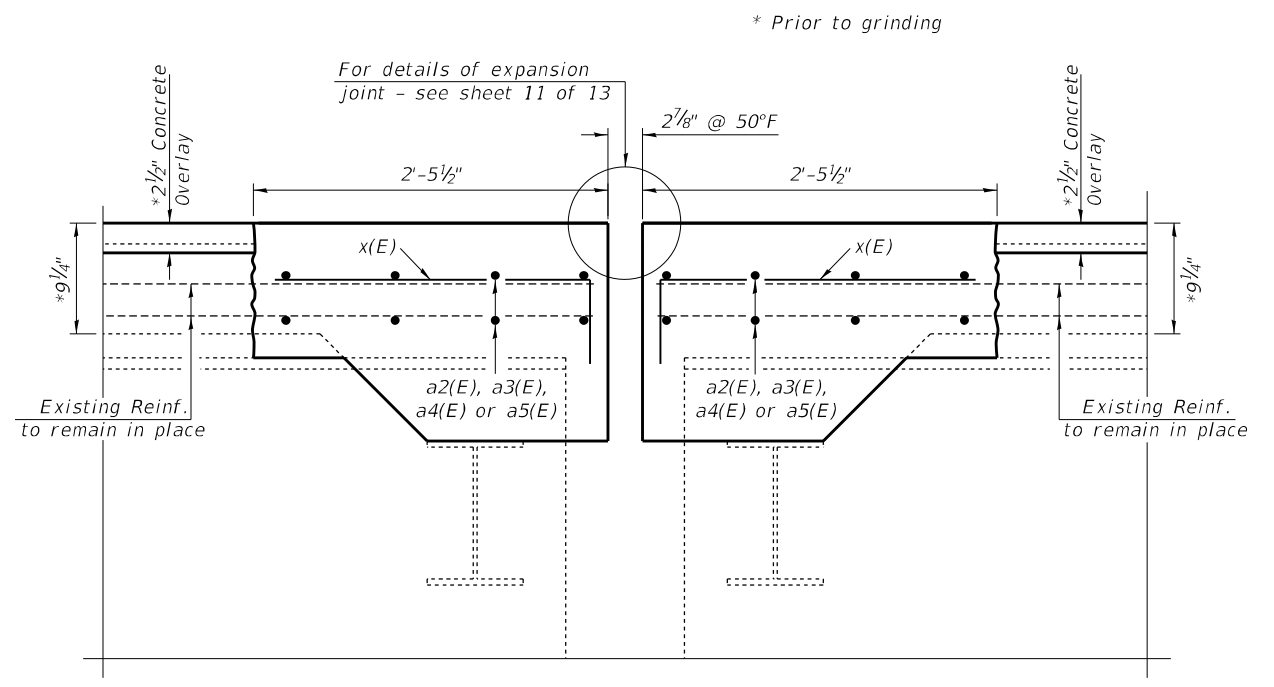
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

MODEL: Default
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USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISD -
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PLOT DATE = 9/6/2022	DATE - Dec. 2021	REVISD -

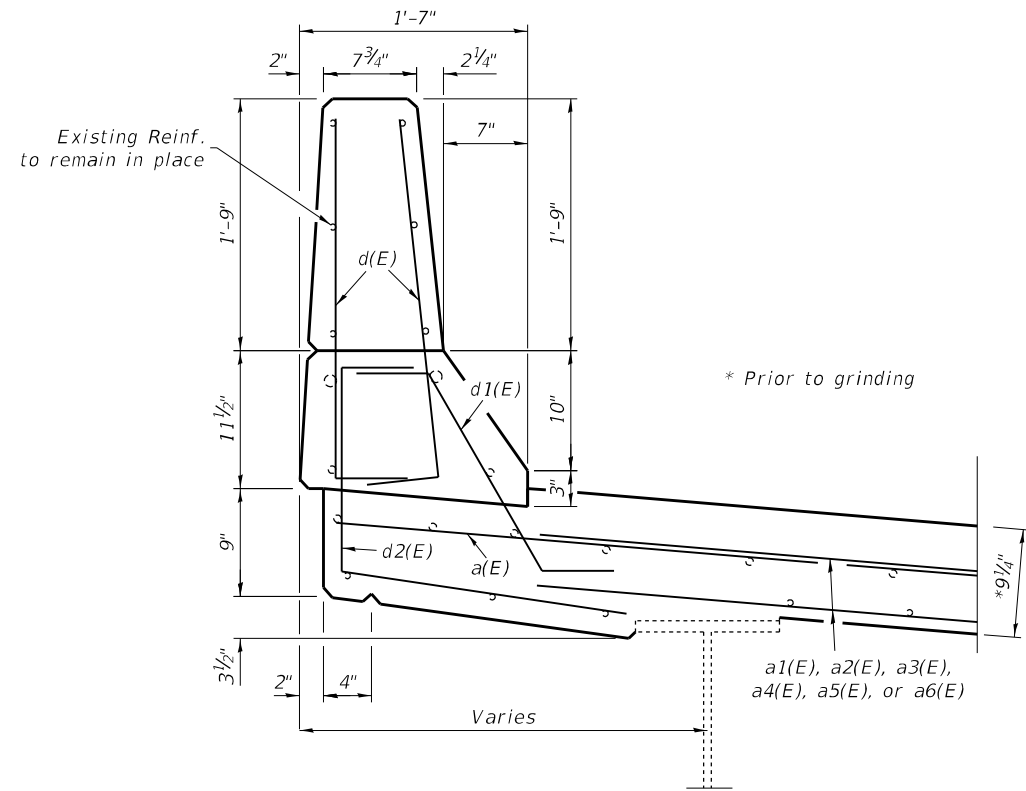
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
 S.N. 025-0018**

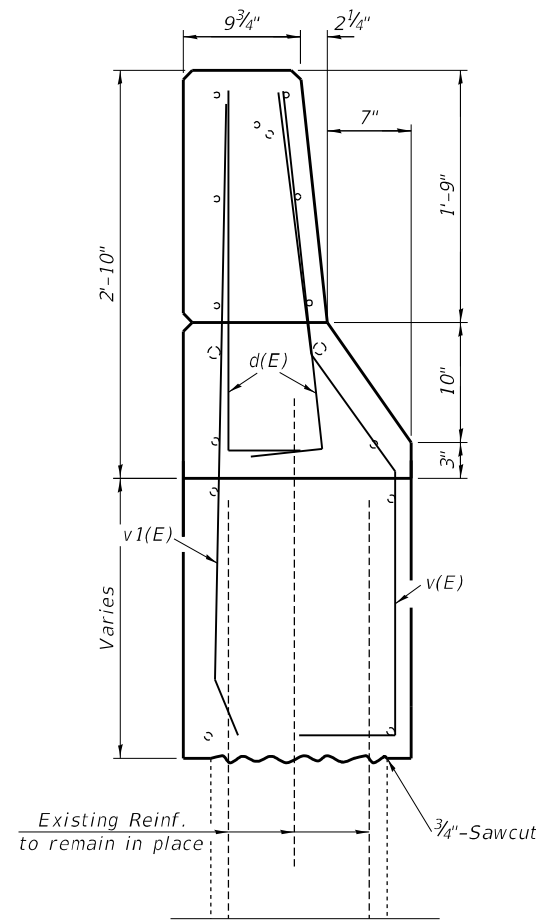
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	39
				CONTRACT NO. 74A69

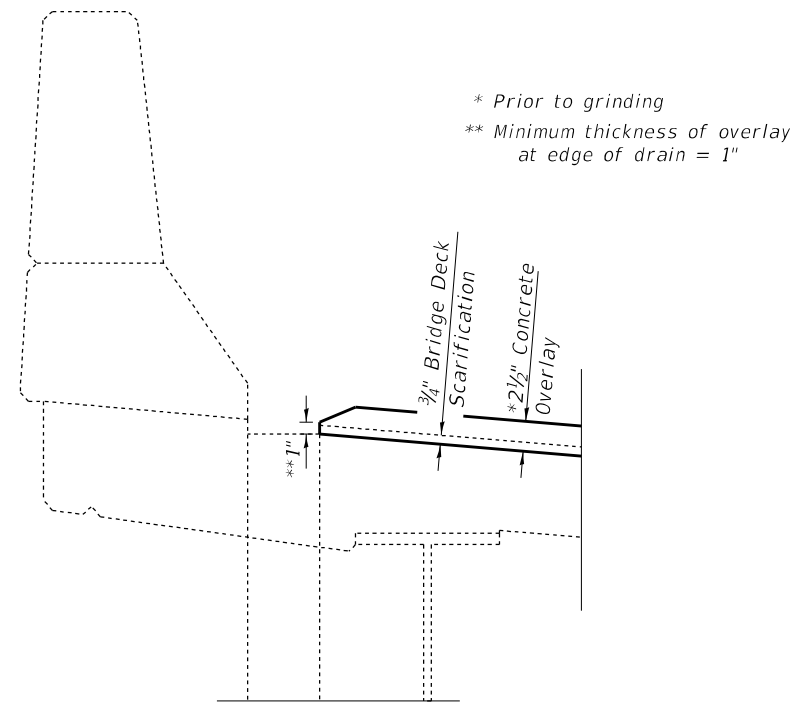
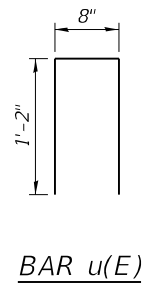
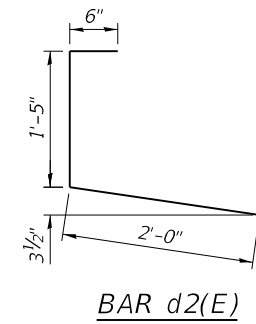
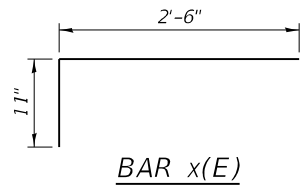
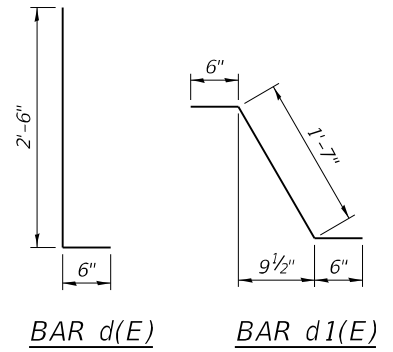
ILLINOIS FED. AID PROJECT



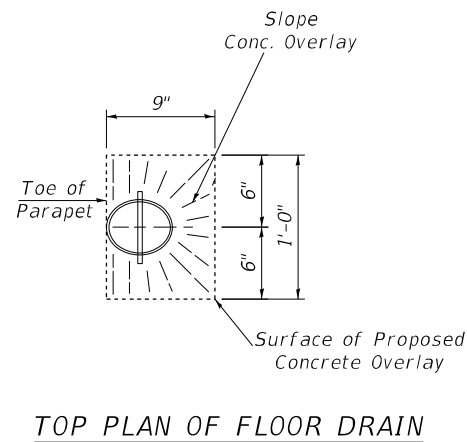
SECTION THRU DECK PARAPET



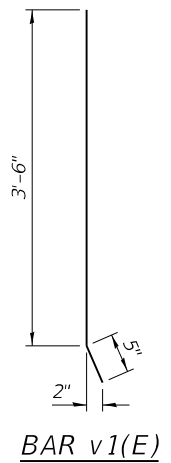
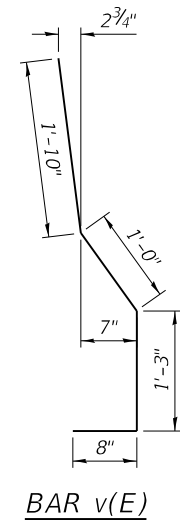
SECTION THRU APPROACH PARAPET



FLOOR DRAIN PRESERVATION



TOP PLAN OF FLOOR DRAIN



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 PLOT DATE = 9/6/2022

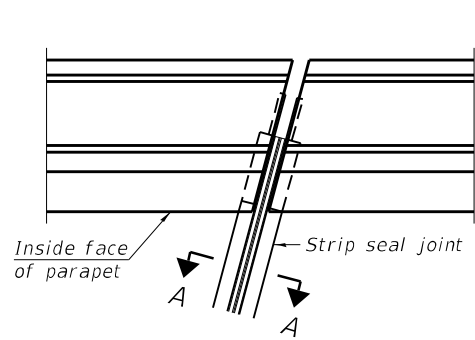
USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
DRAWN - T. Walk	REVISIONS -	
CHECKED - D. Macklin	REVISIONS -	
DATE - Dec. 2021	REVISIONS -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
S.N. 025-0018

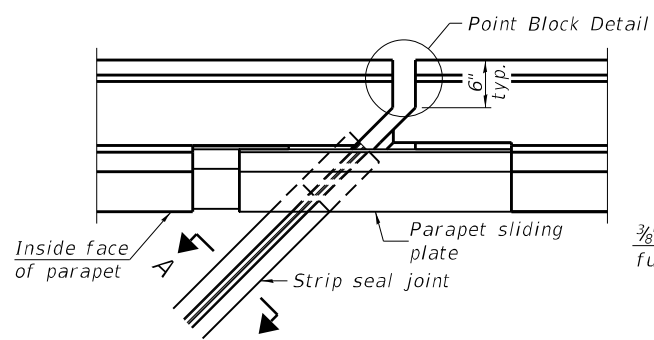
SCALE: 100,0000' / SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	40
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				



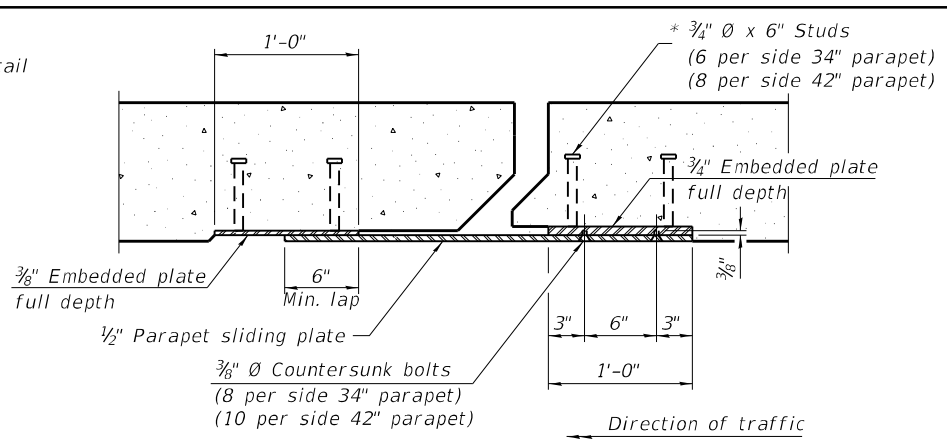
FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET



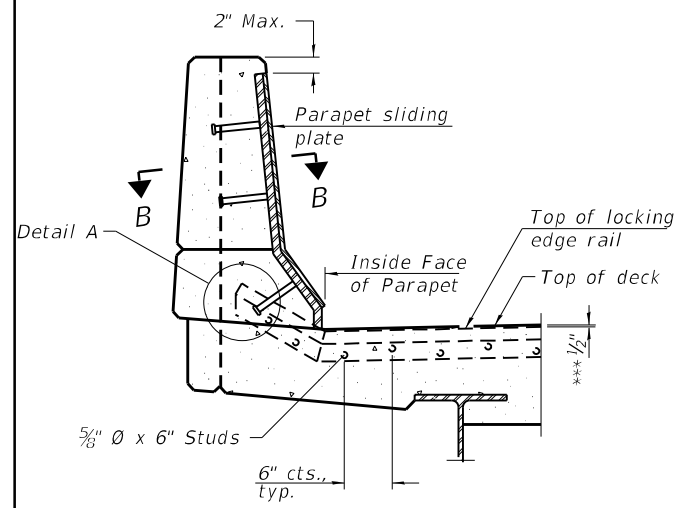
FOR SKEWS $> 30^\circ$

PLAN AT PARAPET



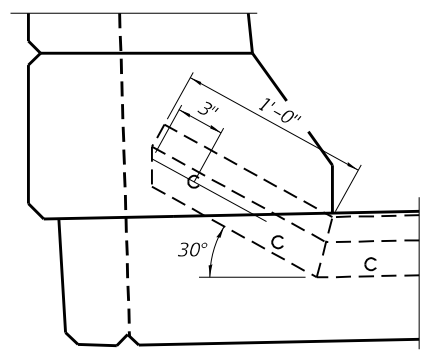
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

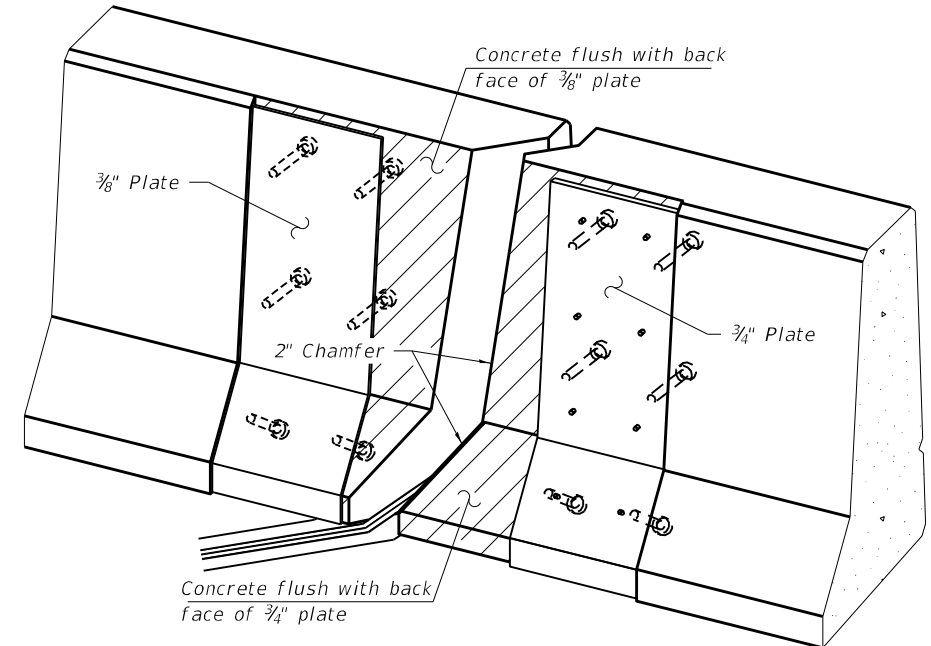


ELEVATION AT PARAPET

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

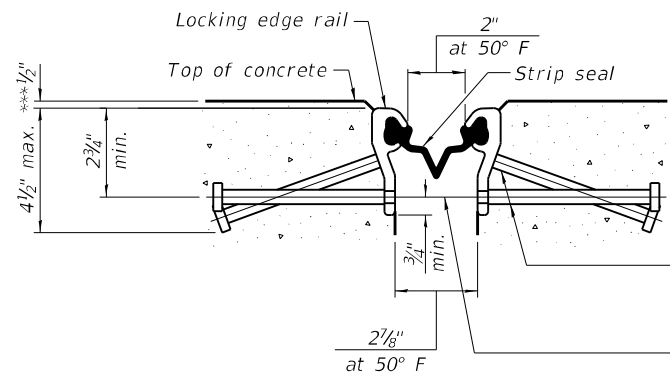


DETAIL A



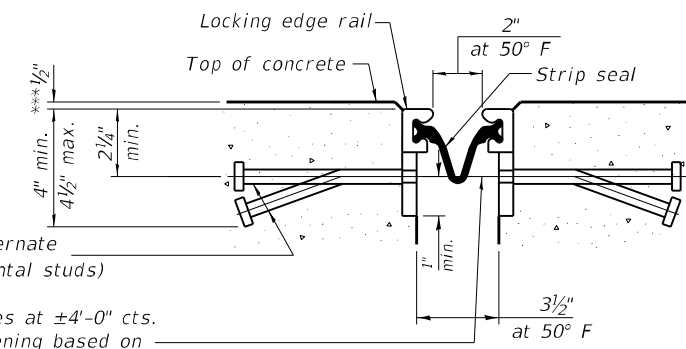
TRIMETRIC VIEW
 (Showing embedded plates only)

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 34" F-shape barrier shown, 42" F-shape similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



SHOWING ROLLED RAIL JOINT

*** Prior to grinding



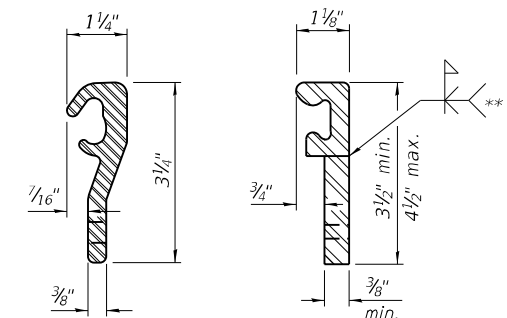
SHOWING WELDED RAIL JOINT

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

3/8" Ø threaded rods in 7/16" Ø 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.

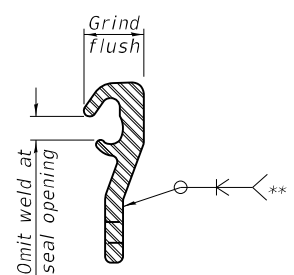
SECTION A-A

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



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	174

MODEL: Default
 FILE: 74A69_PrefabricatedParapetRepair.dwg
 PROJECT: 74A69 Bridge Repairs
 DRAWING: 74A69-025-0018
 SHEET: 11 OF 13
 DATE: 9/6/2022

USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 9/6/2022	CHECKED - D. Macklin	REVISED -
	DATE - Dec. 2021	REVISED -

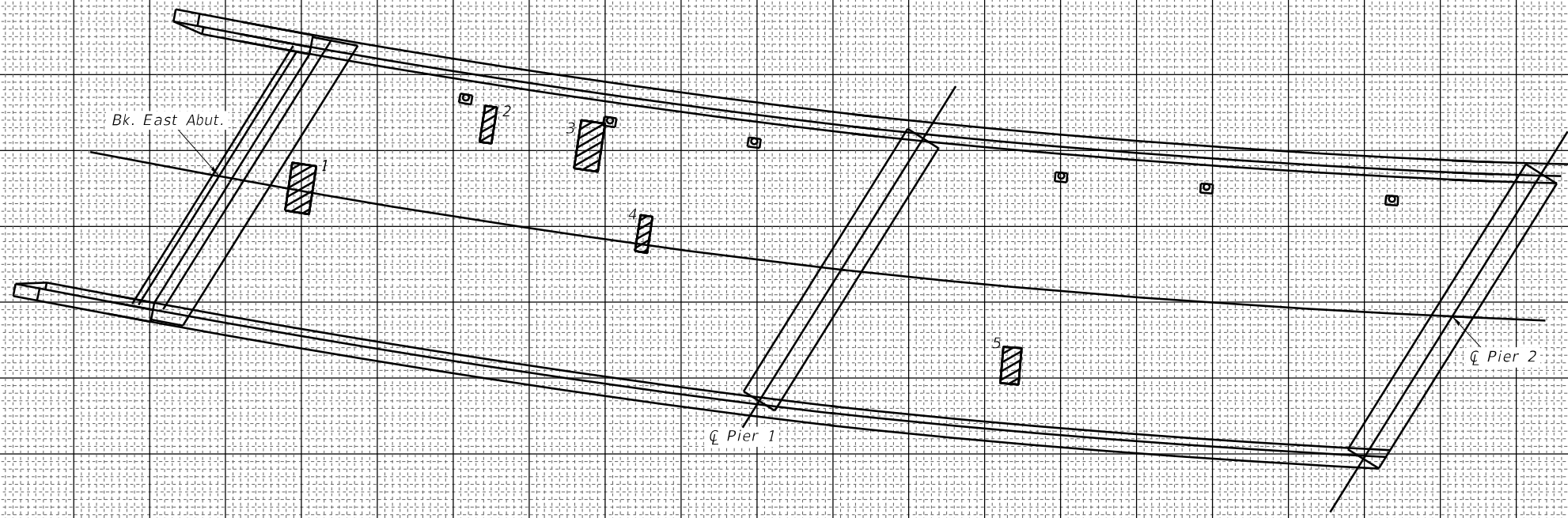
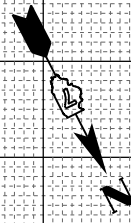
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 S.N. 025-0018

SCALE: 100,0000' / in SHEET 11 OF 13 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	41
			CONTRACT NO. 74A69	
ILLINOIS FED. AID PROJECT				

025-0018 Spans 1 & 2



PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
1	2.0	4.0		0.9
2	1.0	3.0	0.3	
3	2.0	4.0		0.9
4	1.0	3.0	0.3	
5	1.5	3.0	0.5	
TOTAL ROUNDS TO:			2.0	2.0

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



DATE OF SURVEY: 11-08-2021
 SURVEY BY: DPM & 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

MODEL: Default
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USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
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PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
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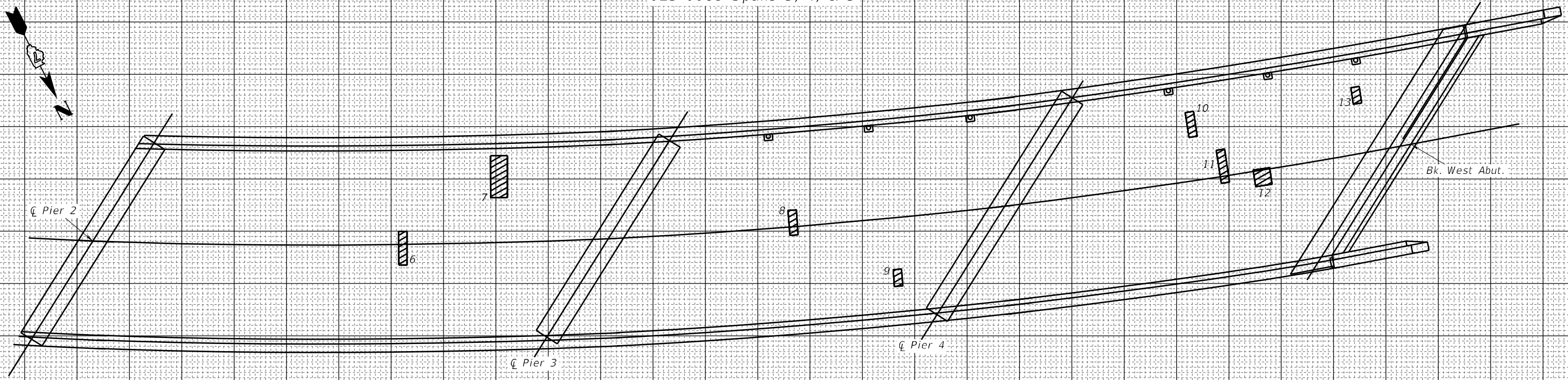
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING, SPANS 1 & 2
 SN. 025-0018

SCALE: 100,0000' / in SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	42
			CONTRACT NO. 74A69	
		ILLINOIS FED. AID PROJECT		

025-0018 Spans 3, 4, & 5



PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
6	1.0	4.0	0.4	
7	2.0	4.0		0.9
8	1.0	3.0	0.3	
9	1.0	2.0	0.2	
10	1.0	3.0	0.3	
11	1.0	4.0	0.4	
12	2.0	2.0	0.4	
13	1.0	2.0	0.2	
TOTAL ROUNDS TO:			3.0	1.0

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



DATE OF SURVEY: 11-08-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:
 DECK SLAB REPAIR (FULL DEPTH TYPE I)
 3.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH TYPE II)
 1.0 SQ YD

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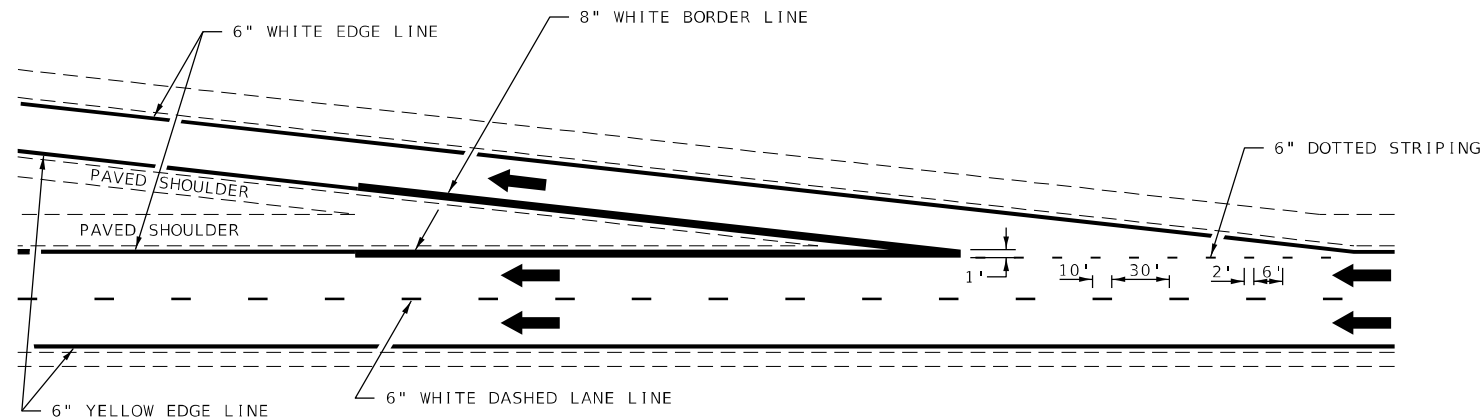
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PLOT DATE = 9/6/2022	CHECKED - D. Macklin	REVISED -
	DATE - Dec. 2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

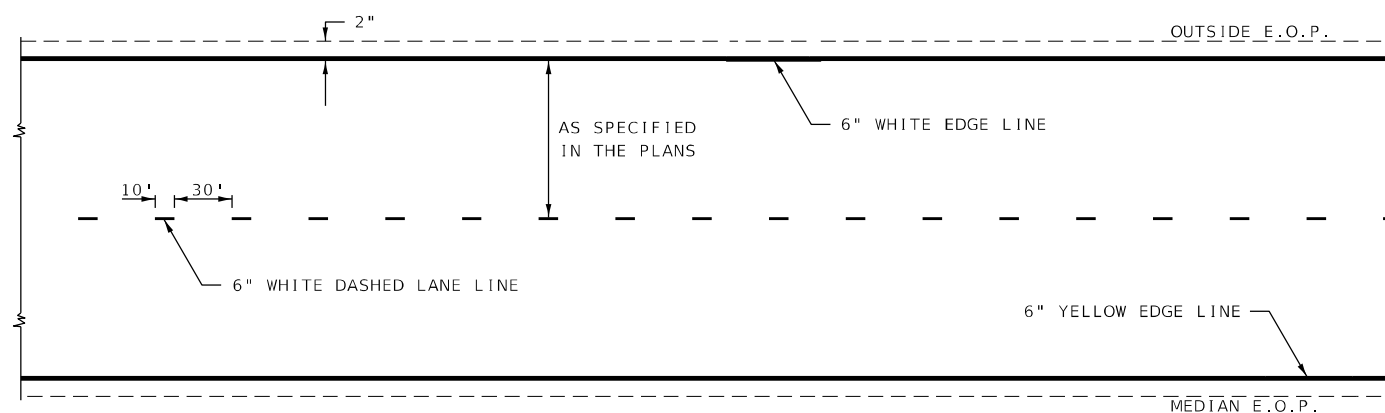
**BRIDGE DECK PATCHING, SPANS 3, 4, & 5
 SN. 025-0018**

SCALE: 100,0000' / in SHEET 13 OF 13 SHEETS STA. TO STA.

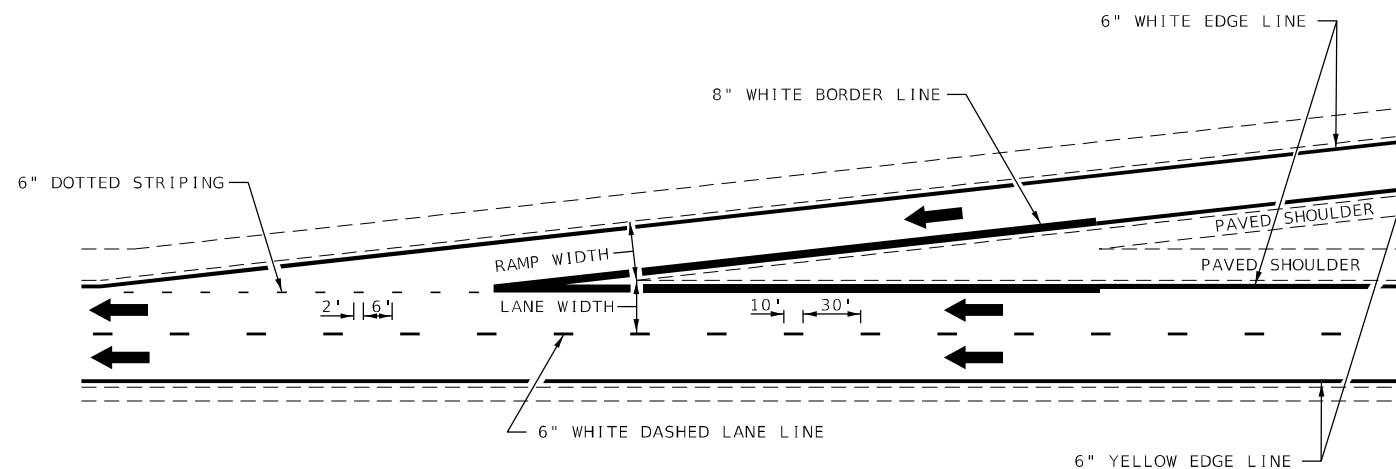
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	43
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				



TYPICAL EXIT RAMP MARKING



TYPICAL CENTERLINE & EDGELINE MARKINGS



TYPICAL ENTRANCE RAMP MARKING

NOT TO SCALE

DISTRICT 7 DETAIL NO. 7800002

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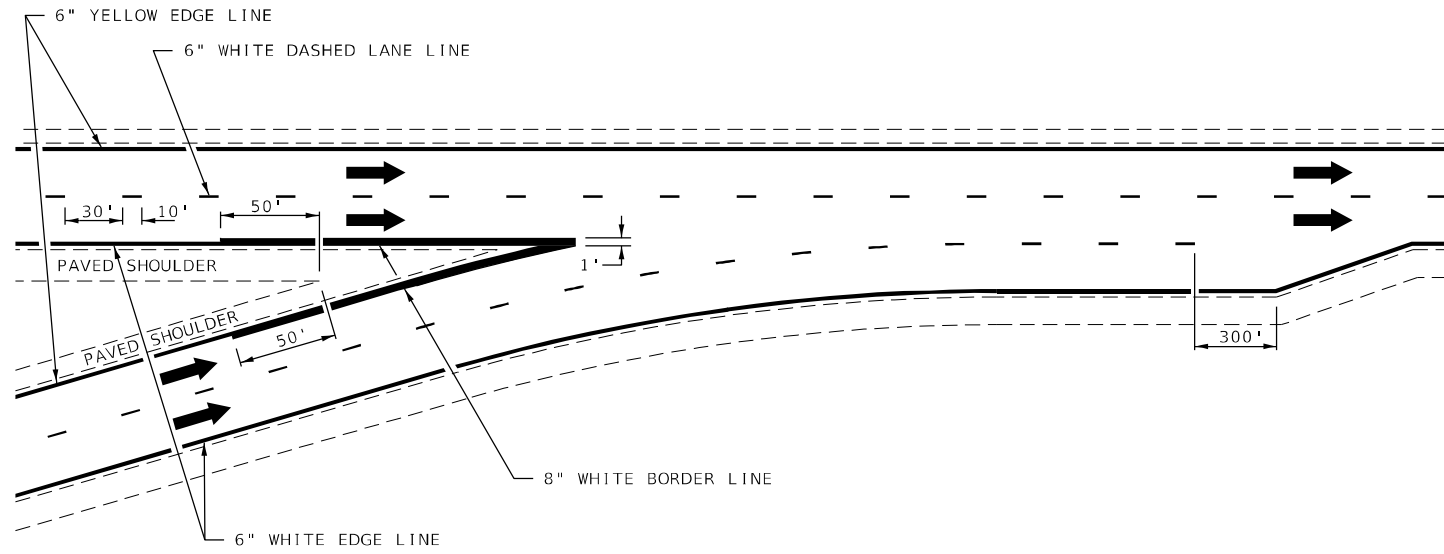
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

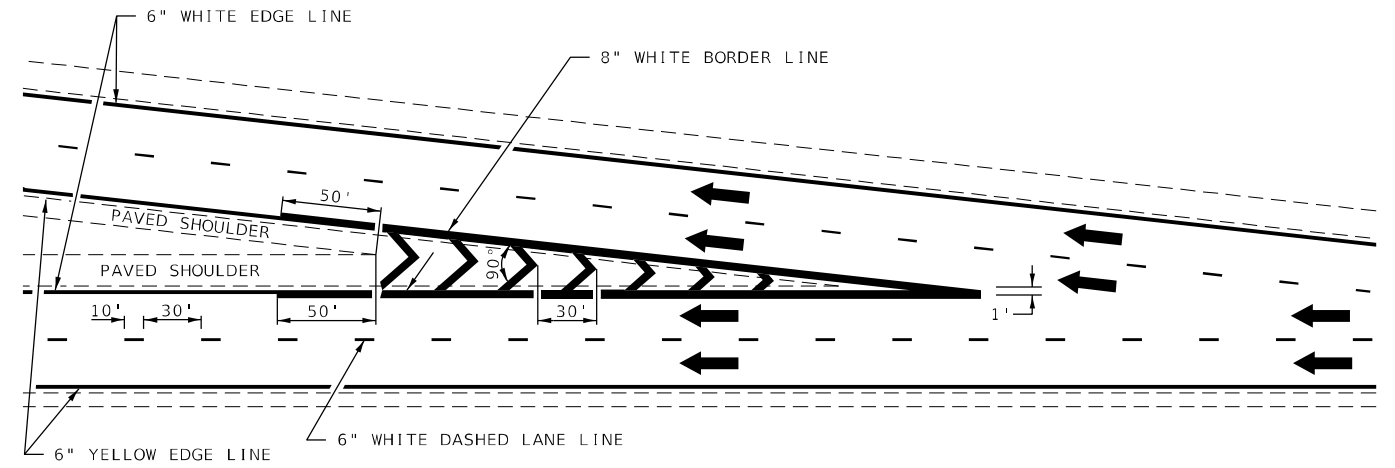
TYPICAL APPLICATIONS OF FREEWAY/EXPRESSWAY
PAVEMENT MARKING

SCALE: NO SCALE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	44
			CONTRACT NO. 74A69	
ILLINOIS FED. AID PROJECT				

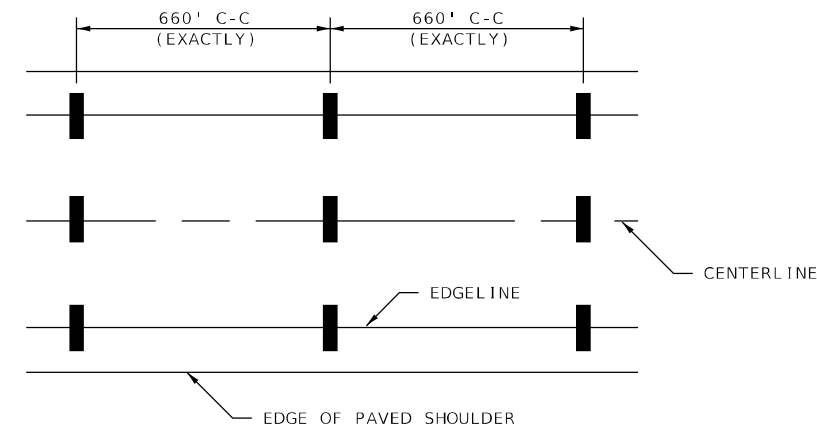


TYPICAL CONVERGENCE MARKING

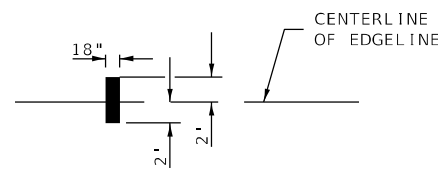


TYPICAL DIVERGENCE MARKING

AERIAL SPEED CHECK ZONES



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



NOT TO SCALE

DISTRICT 7 DETAIL NO. 7800002

USER NAME = Mona.Steffen	DESIGNED -	REVISED - MMO 12-99
	DRAWN -	REVISED - DRM 08-04
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - MKS 04-08
PLOT DATE = 9/6/2022	DATE -	REVISED - DRM 01-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS OF FREEWAY/EXPRESSWAY
PAVEMENT MARKING

SCALE: NO SCALE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	D7 BRIDGE REPAIRS 2023-1	EFFINGHAM	45	45
CONTRACT NO. 74A69				
ILLINOIS FED. AID PROJECT				

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