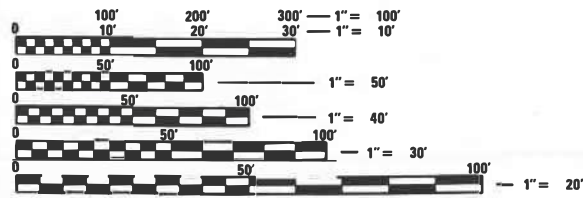


SEE SHEET 2 FOR INDEX OF SHEETS AND LIST OF ILLINOIS DOT HIGHWAY STANDARDS

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
 DESIGN SPEED: 55 MPH
 POSTED SPEED: 55 MPH
 CURRENT ADT = 1,100 (2021)



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

DISTRICT 7 NO. - (217) 342-8243
 PROJECT ENGINEER - MATTHEW BOWER
 PROJECT MANAGER - MATTHEW BOWER
 CONTRACT NO. 74C49

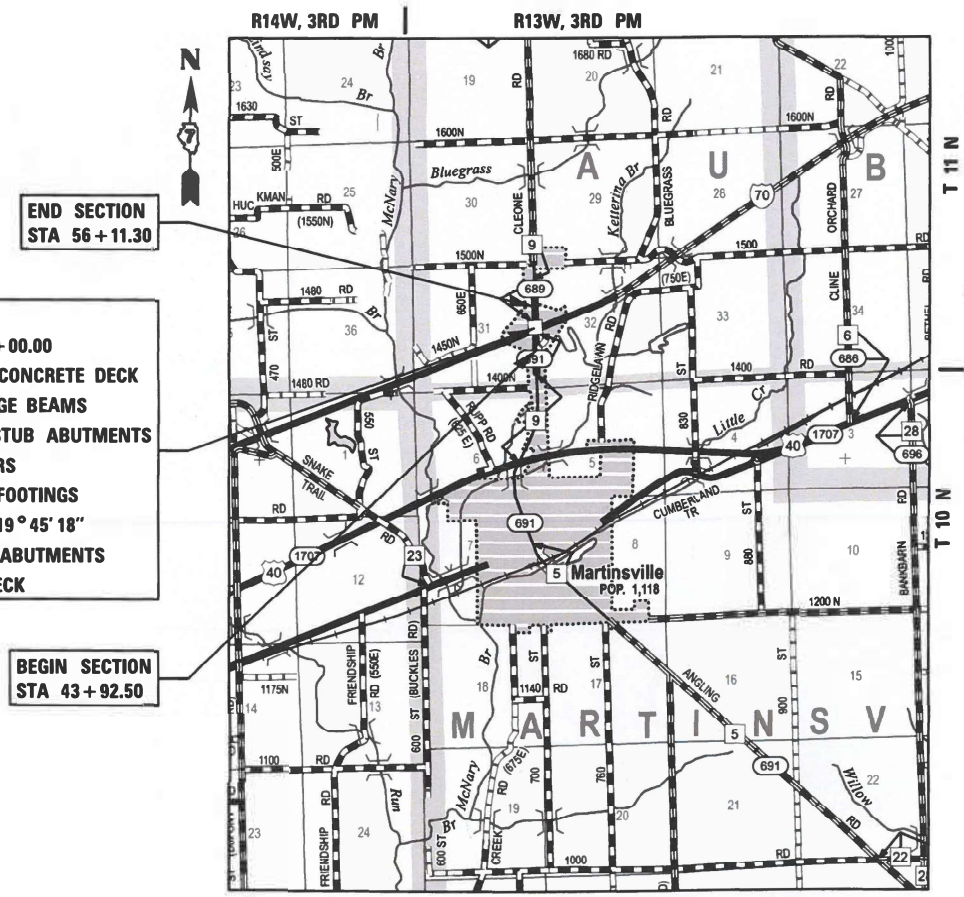


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PROPOSED
 HIGHWAY PLANS**

FAS 689 (CH 9) OVER FAI 70 (I-70)
 SECTION D7 BRIDGE REPAIRS 2025-1
 PROJECT NHPP-AHXX(569)
 CLARK COUNTY

C-97-126-23



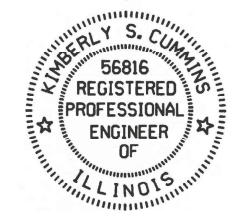
END SECTION
 STA 56 + 11.30

DECK REPLACEMENT
 SN 012-0029, STA 50 + 00.00
 4-SPAN REINFORCED CONCRETE DECK
 ON STEEL WIDE FLANGE BEAMS
 SUPPORTED BY PILE STUB ABUTMENTS
 AND SOLID WALL PIERS
 ON PILE SUPPORTED FOOTINGS
 SKEW RT FORWARD 19° 45' 18"
 243'-4" BK TO BK OF ABUTMENTS
 58'-0" OUT TO OUT DECK

BEGIN SECTION
 STA 43 + 92.50



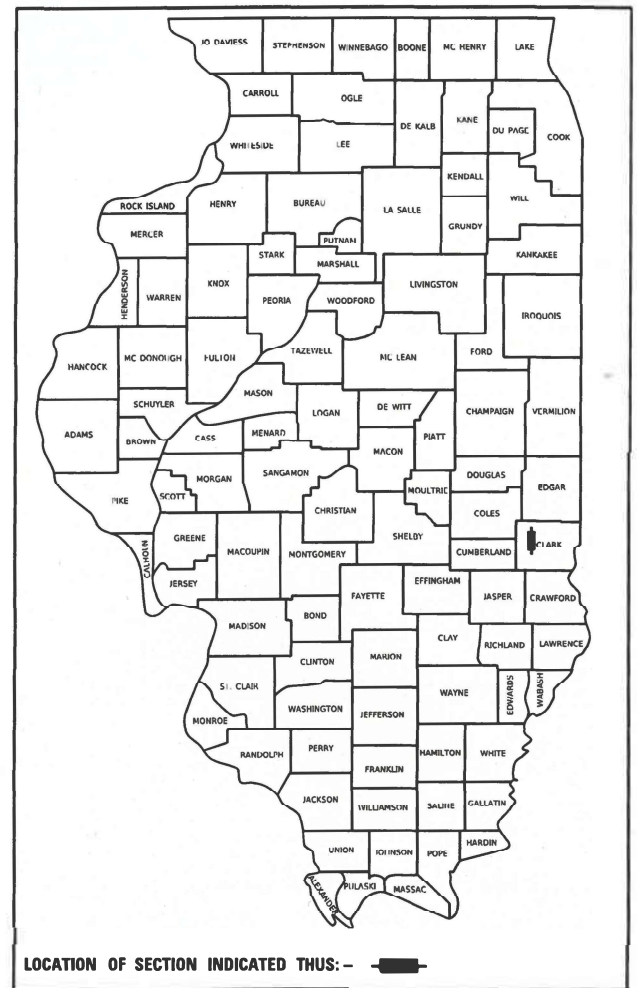
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 NET LENGTH = 1218.80 FT = 0.231 MILE



Kimberly S. Cummins 11/14/25
 ILLINOIS PROFESSIONAL NO. 56816
 (Expires 11/30/25)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	1
		ILLINOIS	CONTRACT NO. 74C49	

D-97-095-23



LOCATION OF SECTION INDICATED THIS: -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED: *DECEMBER 2, 2025*
Teresa C. Pincus
 REGIONAL ENGINEER

January 23, 2026
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

January 23, 2026
[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

SUMMARY OF QUANTITIES

90% FED
10% STATE
0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	140
35100100	AGGREGATE BASE COURSE, TYPE A	TON	142
35300415	PORTLAND CEMENT CONCRETE BASE COURSE 9 3/4"	SQ YD	350
44000100	PAVEMENT REMOVAL	SQ YD	350
44000300	CURB REMOVAL	FOOT	320
44213200	SAW CUTS	FOOT	782
50102400	CONCRETE REMOVAL	CU YD	44
50104650	SLOPE WALL REMOVAL	SQ YD	137
50157300	PROTECTIVE SHIELD	SQ YD	658
50200100	STRUCTURE EXCAVATION	CU YD	72
50300100	FLOOR DRAINS	EACH	16
50300225	CONCRETE STRUCTURES	CU YD	56.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	19.2
50300300	PROTECTIVE COAT	SQ YD	1,119
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	24.8
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	2,680
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	12,270

* SPECIALTY ITEMS

90% FED
10% STATE
0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
50800515	BAR SPLICERS	EACH	44
50800530	MECHANICAL SPLICERS	EACH	156
51100100	SLOPE WALL 4 INCH	SQ YD	137
52000110	PREFORMED JOINT STRIP SEAL	FOOT	123
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	18
52100510	ANCHOR BOLTS, 3/4"	EACH	36
52200010	TEMPORARY SHEET PILING	SQ FT	139
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	72
58700300	CONCRETE SEALER	SQ FT	2,045
60601105	CONCRETE CURB, TYPE M	FOOT	320
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	2,235
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	150.0
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	338
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	2

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DRAWN - CGF
CHECKED - JLB
DATE - 8/06/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	SECTION 07 BRIDGE REPAIRS 2025-1	CLARK	36	3
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

90% FED
10% STATE
0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	4
70106700	TEMPORARY RUMBLE STRIPS	EACH	6
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	2,907
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	178
70300100	SHORT TERM PAVEMENT MARKING	FOOT	354
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,025
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	FOOT	30
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	5,656
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5,656
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8
X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	3,150

* SPECIALTY ITEMS

90% FED
10% STATE
0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	793
X6060102	CONCRETE MEDIAN, TYPE SM-6.12 (SPECIAL)	SQ FT	775
* X6310214	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	2
X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	4
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	18
Z0004552	APPROACH SLAB REMOVAL	SQ YD	61
53101208	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/4"	SQ YD	1,008
53101007	BRIDGE DECK SCARIFICATION 2"	SQ YD	1,008
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	370
53212755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	30
53016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	20
53016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	12
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	873
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	4

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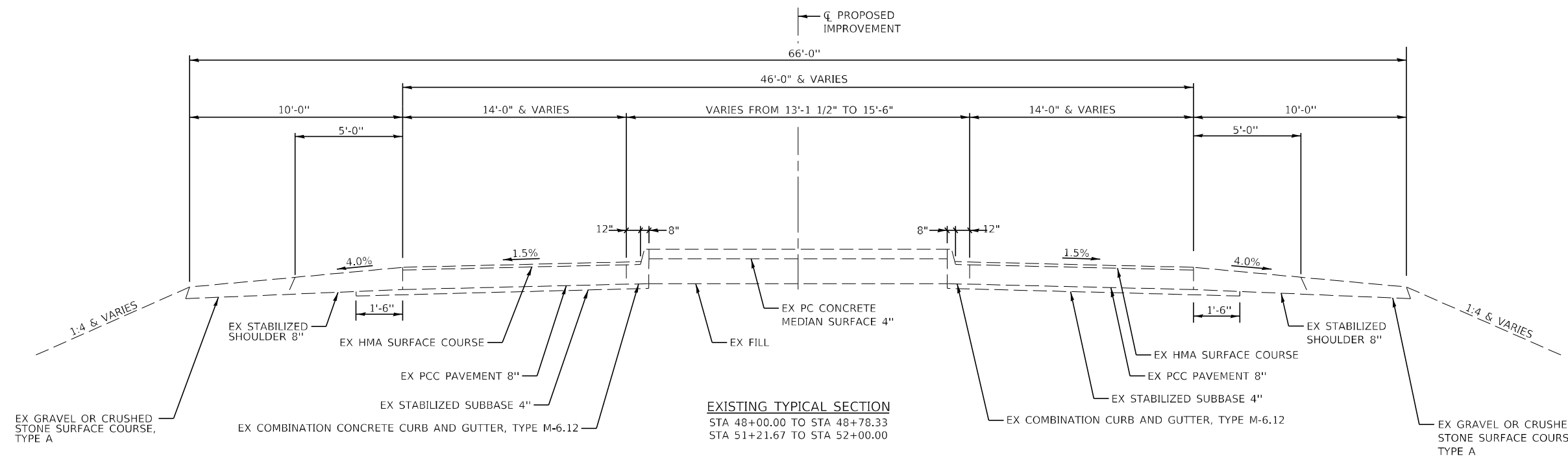
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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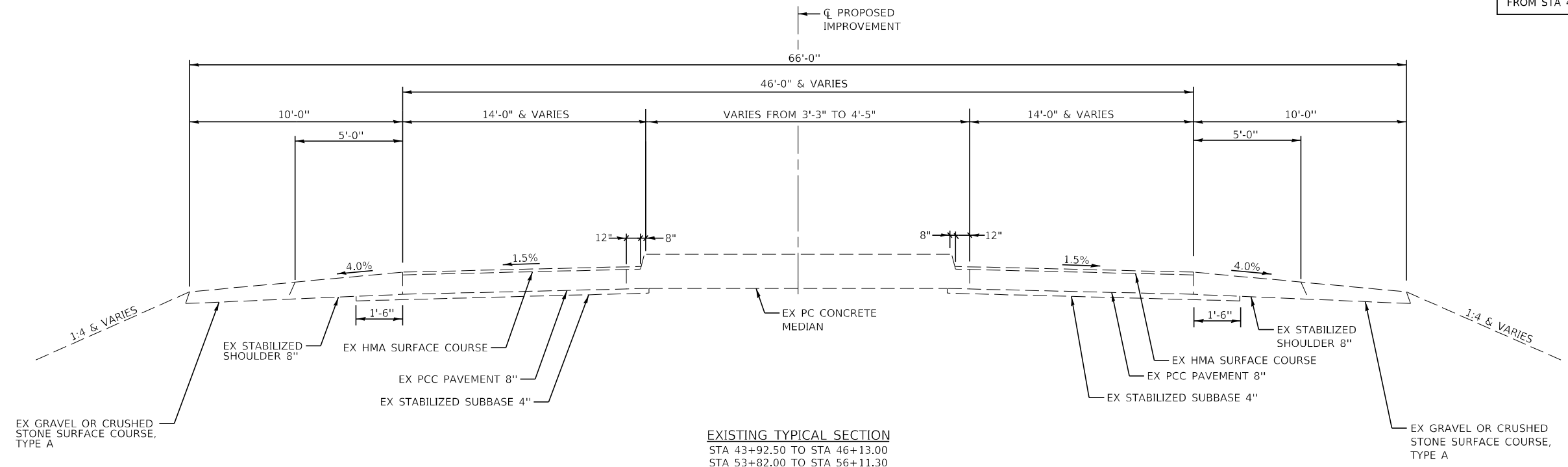
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	SECTION D7 BRIDGE REPAIRS 2025-I	CLARK	36	4
CONTRACT NO. 74C49			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION
 STA 48+00.00 TO STA 48+78.33
 STA 51+21.67 TO STA 52+00.00

NO PROPOSED ROADWAY IMPROVEMENTS
 FROM STA 46+13.00 TO STA 48+00.00
 FROM STA 52+00.00 TO STA 53+82.00

BRIDGE OMISSION
 FROM STA 48+78.33 TO STA 51+21.67



EXISTING TYPICAL SECTION
 STA 43+92.50 TO STA 46+13.00
 STA 53+82.00 TO STA 56+11.30

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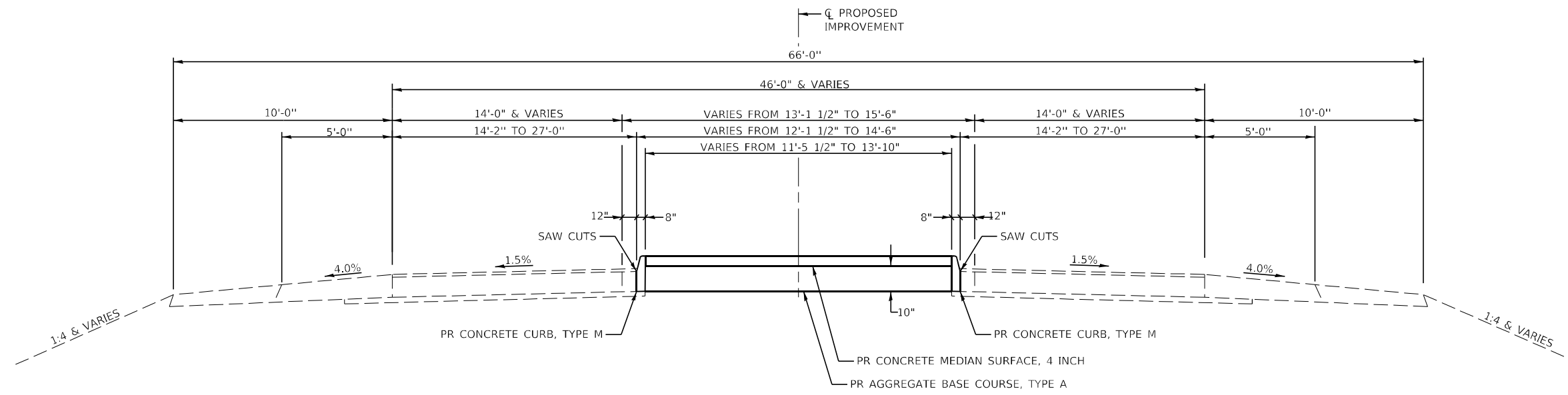
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

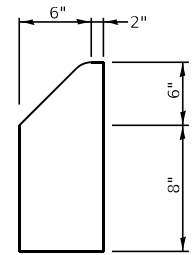
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TYPICAL SECTIONS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	5
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



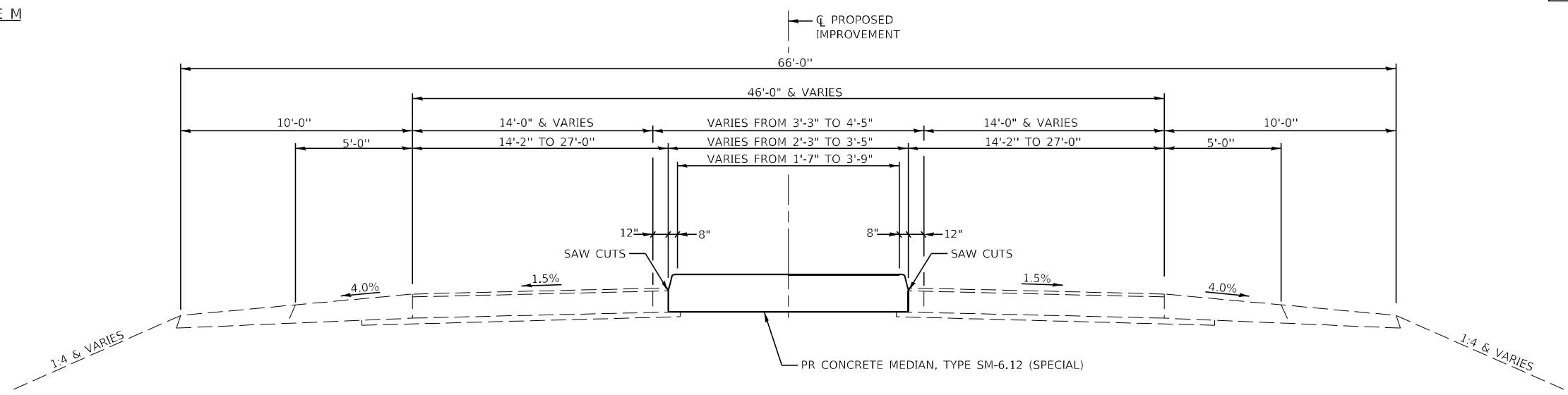
PROPOSED TYPICAL SECTION
 STA 48+00.00 TO STA 48+78.33
 STA 51+21.67 TO STA 52+00.00



CONCRETE CURB, TYPE M

NO PROPOSED ROADWAY IMPROVEMENTS
 FROM STA 46+13.00 TO STA 48+00.00
 FROM STA 52+00.00 TO STA 53+82.00

BRIDGE OMISSION
 FROM STA 48+78.33 TO STA 51+21.67



PROPOSED TYPICAL SECTION
 STA 43+92.50 TO STA 46+13.00
 STA 53+82.00 TO STA 56+11.30

NOTE:
 SEE SAW CUT DETAILS FOR EXACT LOCATIONS.

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 CHECKED - CGF
 DATE - 8/15/2025

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	6
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				

CONCRETE MEDIAN SCHEDULE

LOCATION	35100100	35300415	44000100	44000300	44213200	60601105	60618300	X4403300	X6060102
	AGGREGATE BASE COURSE, TYPE A	PORTLAND CEMENT CONCRETE BASE COURSE 9 3/4"	PAVEMENT REMOVAL	CURB REMOVAL	SAW CUTS	CONCRETE CURB, TYPE M	CONCRETE MEDIAN SURFACE, 4 INCH	CONCRETE MEDIAN REMOVAL	CONCRETE MEDIAN, TYPE SM-6.12 (SPECIAL)
	TON	SQ YD	SQ YD	FOOT	FOOT	FOOT	SQ FT	SQ FT	SQ FT
PRE-STAGE 1									
STA 43+92.50 TO STA 44+90.20		46.12			201.35			415.11	
STA 48+00.00 TO STA 48+78.33		131.95		160.46	189.97			1,187.59	
STA 51+21.67 TO STA 52+00.00		134.09		159.70	189.73			1,206.85	
STA 53+82.00 TO STA 56+11.30		37.73			200.78			339.59	
FINAL PHASE									
STA 43+92.50 TO STA 46+13.00			46.12						415.11
STA 48+00.00 TO STA 48+78.33	70.06		131.95			160.46	1107.33		
STA 51+21.67 TO STA 52+00.00	71.31		134.09			159.70	1126.98		
STA 53+82.00 TO STA 56+11.30			37.73						339.59
TOTAL	141.37	349.89	349.90	320.16	781.83	320.16	2234.31	3149.14	754.70
USE	142	350	350	320	782	320	2,235	3,150	755

GUARDRAIL SCHEDULE

LOCATION	63000001	X6310214	63100169	63200310	72501000	78200005
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
	FOOT	EACH	EACH	FOOT	EACH	EACH
STAGE 1						
LT STA 51+10.26 TO STA 52+72.76	75.0	1	1	162.5	1	4
STAGE 2						
RT STA. 47+27.25 TO STA. 48+89.75	75.0	1	1	175.0	1	4
TOTAL	150.0	2	2	337.5	2	8
USE	150.0	2	2	338	2	8

LOCATION	70106500
	TEMPORARY BRIDGE TRAFFIC SIGNALS
	EACH
PRE-STAGE 1	
LT STA. 43+10.00	1
LT STA. 56+57.00	1
RT STA 43+43.00	1
RT STA 56+87.00	1
TOTAL	4

LOCATION	70106700
	TEMPORARY RUMBLE STRIPS
	EACH
PRE-STAGE 1	6
TOTAL	6

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CHECKED - TSH
DATE - 5/7/2025

REVISED -
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	SECTION 07 BRIDGE REPAIRS 2025-1	CLARK	36	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74C49	

PAVEMENT MARKING SCHEDULE

LOCATION	70107005	70300100	70300150	70307100	70307120	78001110
	PAVEMENT MARKING BLACKOUT TAPE, 5"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	PAINT PAVEMENT MARKING - LINE 4"
	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT
STAGE 1						
WHITE MEDIAN / EDGE LINE						
STA 43+10.00 TO STA 56+55.00		135	45			
SOLID YELLOW CENTERLINE						
STA 43+92.50 TO STA 56+11.30	1468		1468			
WHITE STOP BARS						
RT STA. 42+69.00		28	9			
LT STA 43+11.00		18	6			
RT STA 57+05.00		15	5			
LT STA 57+28.00		23	8			
STAGE 2						
WHITE MEDIAN / EDGE LINE						
STA 43+44.00 TO STA 56+87.00		135	45			
SOLID YELLOW MEDIAN / CENTERLINE						
STA 43+92.50 TO STA 56+11.30	1439		1439			
FINAL PHASE						
WHITE TURN LANE LINE						
LT STA 43+92.50 TO STA 46+52.50					260	260
RT STA 53+51.30 TO STA 56+11.30					260	260
WHITE ARROWS						
LT STA 43+92.50 TO STA 46+52.50				15		
RT STA 53+51.30 TO STA 56+11.30				15		
WHITE EDGE LINE						
LT STA 43+10.00 TO STA 56+53.80					1,344	1,344
SOLID YELLOW MEDIAN / CENTERLINE						
CL STA 43+92.50 TO STA 56+11.30					2,441	2,441
WHITE EDGE LINE						
RT STA 43+43.40 TO STA 56+94.00					1,351	1,351
TOTAL	2,907	354	3,025	30	5,656	5,656

LOCATION	X7240600 REMOVE AND RE-ERECT EXISTING SIGN EACH
	PRE-STAGE 1 / FINAL PHASE
RT STA 44+00.00	1
LT STA 48+03.00	1
RT STA 51+97.00	1
LT STA 56+04.00	1
TOTAL	4

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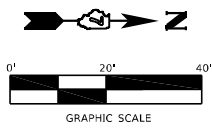
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULES OF QUANTITIES

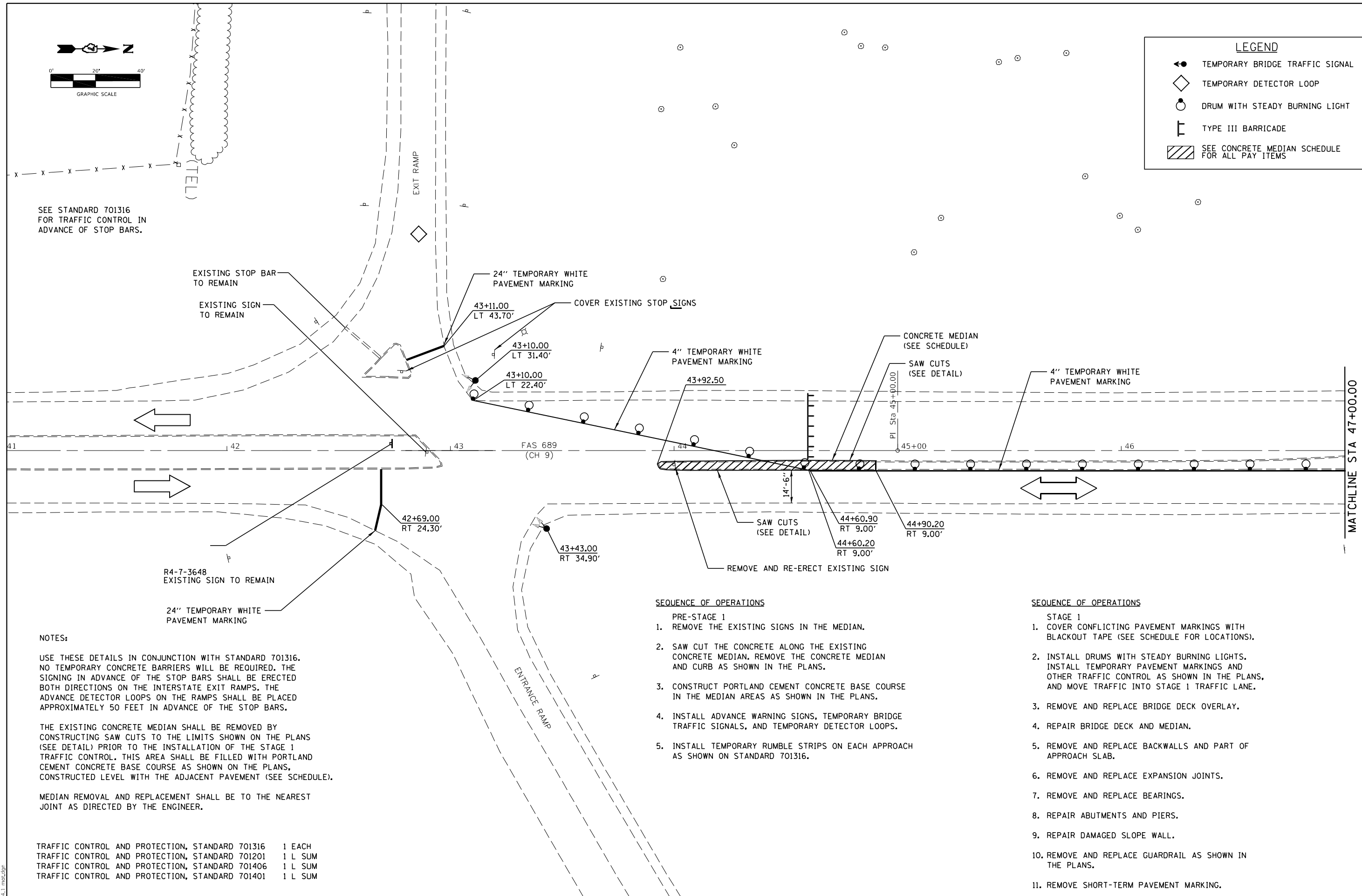
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	SECTION 07 BRIDGE REPAIRS 2025-1	CLARK	36	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74C49	



LEGEND	
	TEMPORARY BRIDGE TRAFFIC SIGNAL
	TEMPORARY DETECTOR LOOP
	DRUM WITH STEADY BURNING LIGHT
	TYPE III BARRICADE
	SEE CONCRETE MEDIAN SCHEDULE FOR ALL PAY ITEMS

SEE STANDARD 701316 FOR TRAFFIC CONTROL IN ADVANCE OF STOP BARS.



NOTES:

USE THESE DETAILS IN CONJUNCTION WITH STANDARD 701316. NO TEMPORARY CONCRETE BARRIERS WILL BE REQUIRED. THE SIGNING IN ADVANCE OF THE STOP BARS SHALL BE ERECTED BOTH DIRECTIONS ON THE INTERSTATE EXIT RAMP. THE ADVANCE DETECTOR LOOPS ON THE RAMP SHALL BE PLACED APPROXIMATELY 50 FEET IN ADVANCE OF THE STOP BARS.

THE EXISTING CONCRETE MEDIAN SHALL BE REMOVED BY CONSTRUCTING SAW CUTS TO THE LIMITS SHOWN ON THE PLANS (SEE DETAIL) PRIOR TO THE INSTALLATION OF THE STAGE 1 TRAFFIC CONTROL. THIS AREA SHALL BE FILLED WITH PORTLAND CEMENT CONCRETE BASE COURSE AS SHOWN ON THE PLANS, CONSTRUCTED LEVEL WITH THE ADJACENT PAVEMENT (SEE SCHEDULE).

MEDIAN REMOVAL AND REPLACEMENT SHALL BE TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	1 EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	1 L SUM
TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	1 L SUM
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	1 L SUM

SEQUENCE OF OPERATIONS

- PRE-STAGE 1
1. REMOVE THE EXISTING SIGNS IN THE MEDIAN.
 2. SAW CUT THE CONCRETE ALONG THE EXISTING CONCRETE MEDIAN. REMOVE THE CONCRETE MEDIAN AND CURB AS SHOWN IN THE PLANS.
 3. CONSTRUCT PORTLAND CEMENT CONCRETE BASE COURSE IN THE MEDIAN AREAS AS SHOWN IN THE PLANS.
 4. INSTALL ADVANCE WARNING SIGNS, TEMPORARY BRIDGE TRAFFIC SIGNALS, AND TEMPORARY DETECTOR LOOPS.
 5. INSTALL TEMPORARY RUMBLE STRIPS ON EACH APPROACH AS SHOWN ON STANDARD 701316.

SEQUENCE OF OPERATIONS

- STAGE 1
1. COVER CONFLICTING PAVEMENT MARKINGS WITH BLACKOUT TAPE (SEE SCHEDULE FOR LOCATIONS).
 2. INSTALL DRUMS WITH STEADY BURNING LIGHTS. INSTALL TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL AS SHOWN IN THE PLANS, AND MOVE TRAFFIC INTO STAGE 1 TRAFFIC LANE.
 3. REMOVE AND REPLACE BRIDGE DECK OVERLAY.
 4. REPAIR BRIDGE DECK AND MEDIAN.
 5. REMOVE AND REPLACE BACKWALLS AND PART OF APPROACH SLAB.
 6. REMOVE AND REPLACE EXPANSION JOINTS.
 7. REMOVE AND REPLACE BEARINGS.
 8. REPAIR ABUTMENTS AND PIERS.
 9. REPAIR DAMAGED SLOPE WALL.
 10. REMOVE AND REPLACE GUARDRAIL AS SHOWN IN THE PLANS.
 11. REMOVE SHORT-TERM PAVEMENT MARKING.

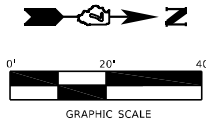
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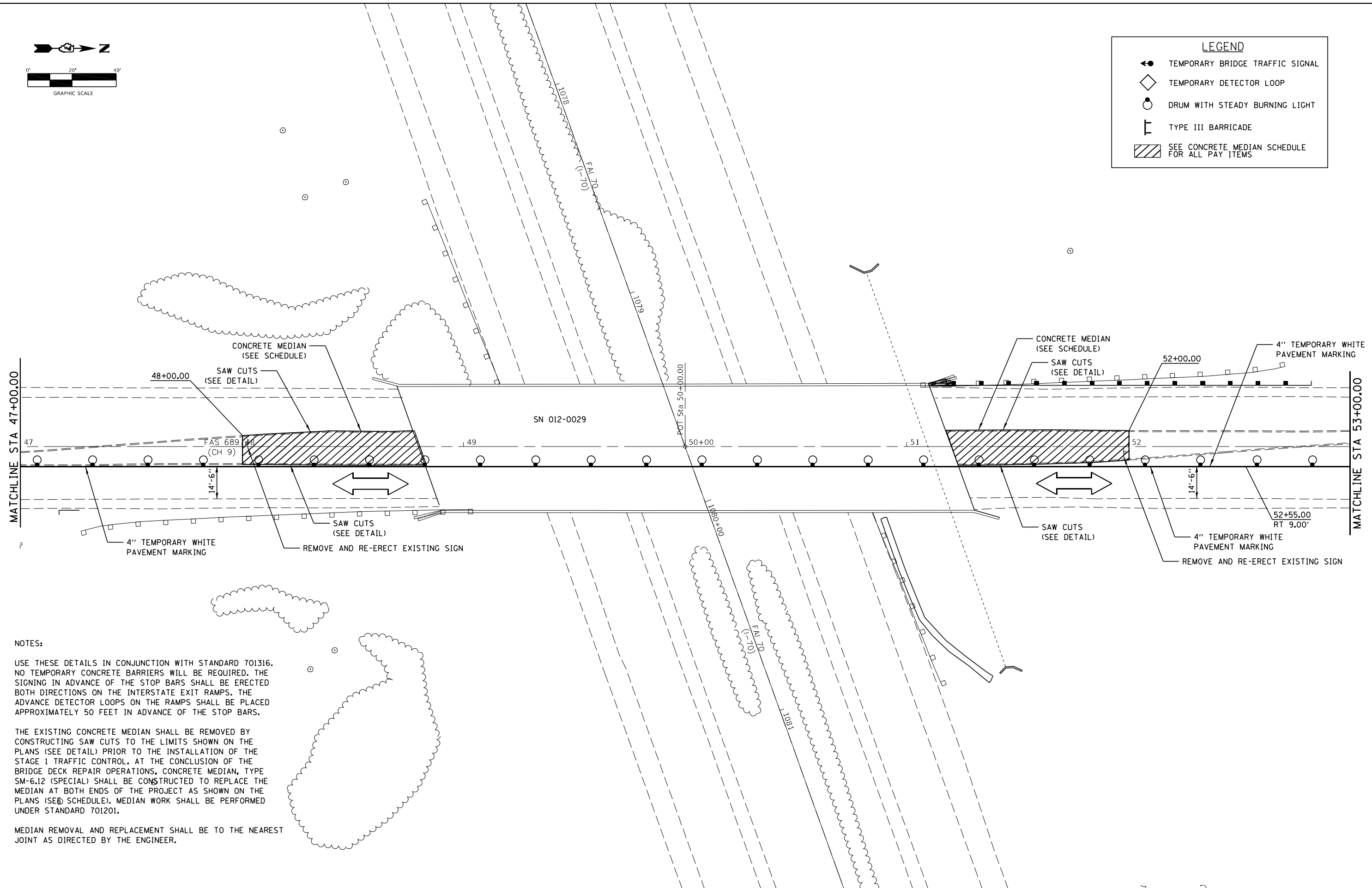
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 TRAFFIC CONTROL PLAN			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74C49	



LEGEND	
	TEMPORARY BRIDGE TRAFFIC SIGNAL
	TEMPORARY DETECTOR LOOP
	DRUM WITH STEADY BURNING LIGHT
	TYPE III BARRICADE
	SEE CONCRETE MEDIAN SCHEDULE FOR ALL PAY ITEMS



NOTES:

USE THESE DETAILS IN CONJUNCTION WITH STANDARD 701316. NO TEMPORARY CONCRETE BARRIERS WILL BE REQUIRED. THE SIGNING IN ADVANCE OF THE STOP BARS SHALL BE ERECTED BOTH DIRECTIONS ON THE INTERSTATE EXIT RAMP. THE ADVANCE DETECTOR LOOPS ON THE RAMP SHALL BE PLACED APPROXIMATELY 50 FEET IN ADVANCE OF THE STOP BARS.

THE EXISTING CONCRETE MEDIAN SHALL BE REMOVED BY CONSTRUCTING SAW CUTS TO THE LIMITS SHOWN ON THE PLANS (SEE DETAIL) PRIOR TO THE INSTALLATION OF THE STAGE 1 TRAFFIC CONTROL. AT THE CONCLUSION OF THE BRIDGE DECK REPAIR OPERATIONS, CONCRETE MEDIAN, TYPE SM-6.12 (SPECIAL) SHALL BE CONSTRUCTED TO REPLACE THE MEDIAN AT BOTH ENDS OF THE PROJECT AS SHOWN ON THE PLANS (SEE SCHEDULE). MEDIAN WORK SHALL BE PERFORMED UNDER STANDARD 701201.

MEDIAN REMOVAL AND REPLACEMENT SHALL BE TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.

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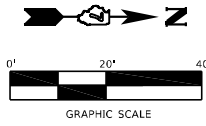
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PLOT DATE = 11/18/2025	DATE - 8/15/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

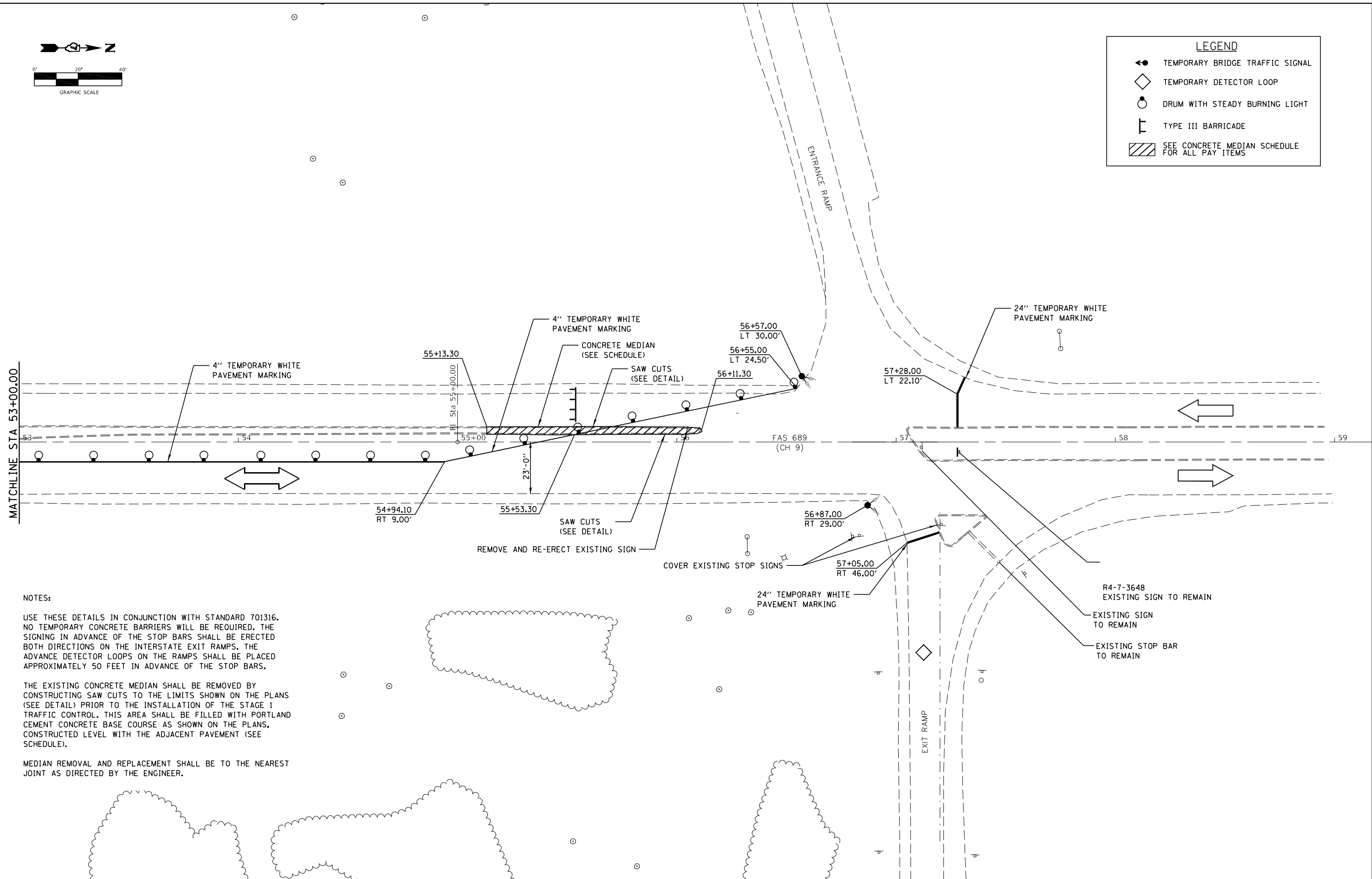
STAGE 1 TRAFFIC CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	10
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



LEGEND	
	TEMPORARY BRIDGE TRAFFIC SIGNAL
	TEMPORARY DETECTOR LOOP
	DRUM WITH STEADY BURNING LIGHT
	TYPE III BARRICADE
	SEE CONCRETE MEDIAN SCHEDULE FOR ALL PAY ITEMS



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MEDIAN REMOVAL AND REPLACEMENT SHALL BE TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.

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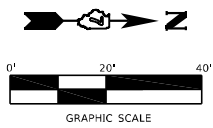
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

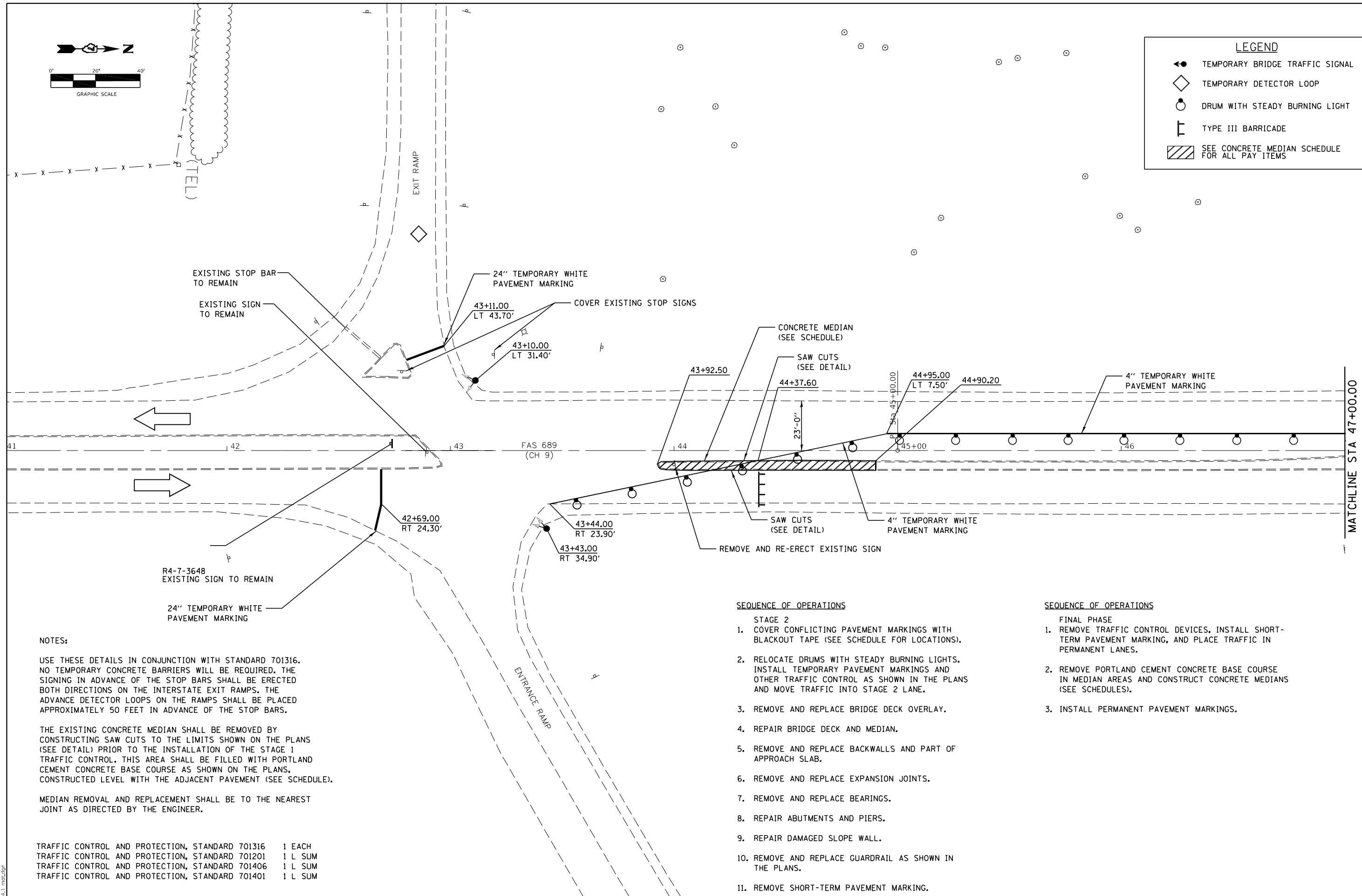
STAGE 1 TRAFFIC CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	11
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



LEGEND	
	TEMPORARY BRIDGE TRAFFIC SIGNAL
	TEMPORARY DETECTOR LOOP
	DRUM WITH STEADY BURNING LIGHT
	TYPE III BARRICADE
	SEE CONCRETE MEDIAN SCHEDULE FOR ALL PAY ITEMS



NOTES:

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MEDIAN REMOVAL AND REPLACEMENT SHALL BE TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	1 EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	1 L SUM
TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	1 L SUM
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	1 L SUM

SEQUENCE OF OPERATIONS

- STAGE 2
- COVER CONFLICTING PAVEMENT MARKINGS WITH BLACKOUT TAPE (SEE SCHEDULE FOR LOCATIONS).
 - RELOCATE DRUMS WITH STEADY BURNING LIGHTS. INSTALL TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL AS SHOWN IN THE PLANS AND MOVE TRAFFIC INTO STAGE 2 LANE.
 - REMOVE AND REPLACE BRIDGE DECK OVERLAY.
 - REPAIR BRIDGE DECK AND MEDIAN.
 - REMOVE AND REPLACE BACKWALLS AND PART OF APPROACH SLAB.
 - REMOVE AND REPLACE EXPANSION JOINTS.
 - REMOVE AND REPLACE BEARINGS.
 - REPAIR ABUTMENTS AND PIERS.
 - REPAIR DAMAGED SLOPE WALL.
 - REMOVE AND REPLACE GUARDRAIL AS SHOWN IN THE PLANS.
 - REMOVE SHORT-TERM PAVEMENT MARKING.

SEQUENCE OF OPERATIONS

- FINAL PHASE
- REMOVE TRAFFIC CONTROL DEVICES, INSTALL SHORT-TERM PAVEMENT MARKING, AND PLACE TRAFFIC IN PERMANENT LANES.
 - REMOVE PORTLAND CEMENT CONCRETE BASE COURSE IN MEDIAN AREAS AND CONSTRUCT CONCRETE MEDIANS (SEE SCHEDULES).
 - INSTALL PERMANENT PAVEMENT MARKINGS.

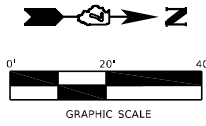
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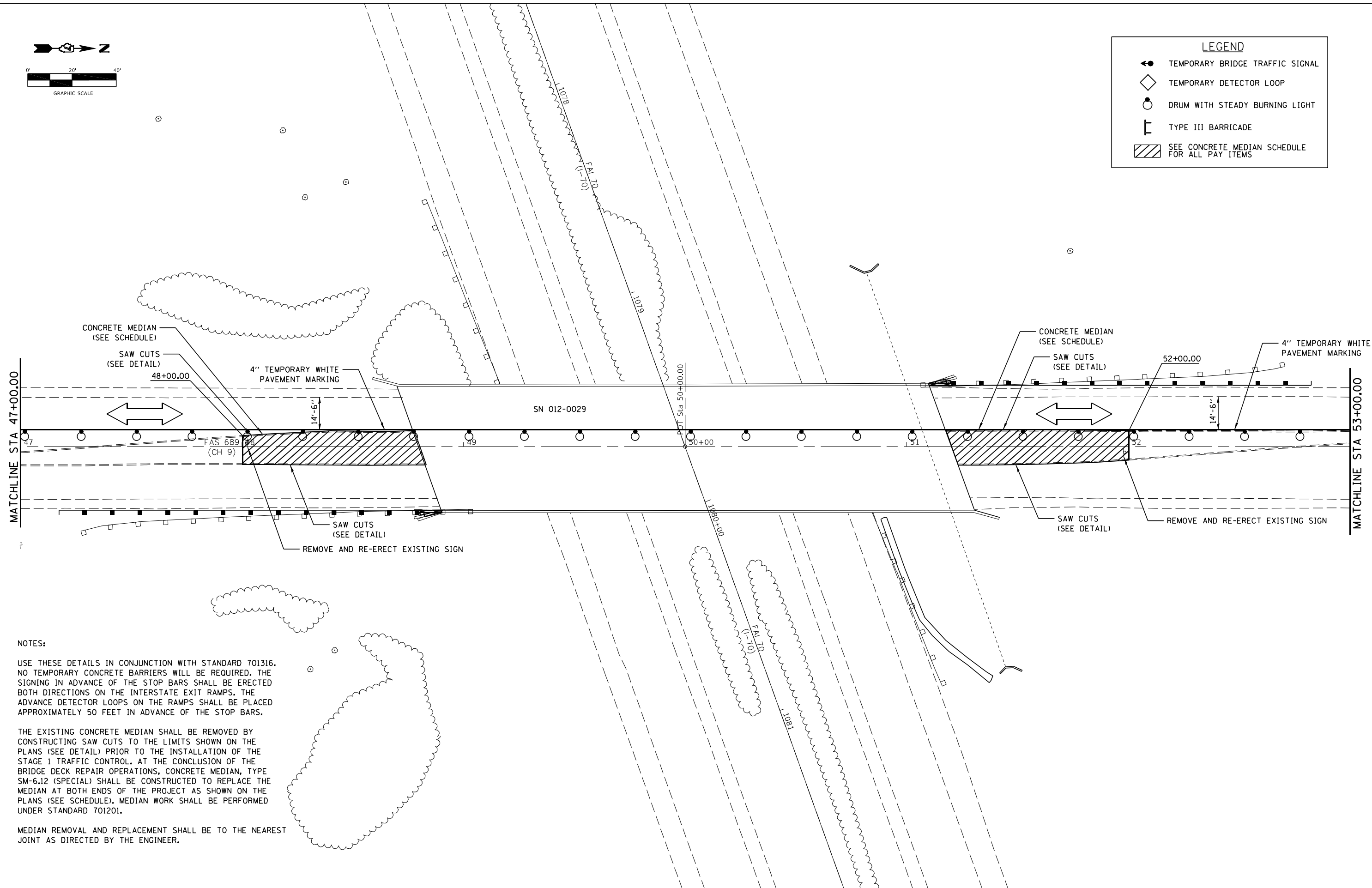
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 TRAFFIC CONTROL PLAN				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	12
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



LEGEND	
	TEMPORARY BRIDGE TRAFFIC SIGNAL
	TEMPORARY DETECTOR LOOP
	DRUM WITH STEADY BURNING LIGHT
	TYPE III BARRICADE
	SEE CONCRETE MEDIAN SCHEDULE FOR ALL PAY ITEMS



NOTES:

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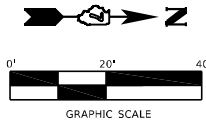
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

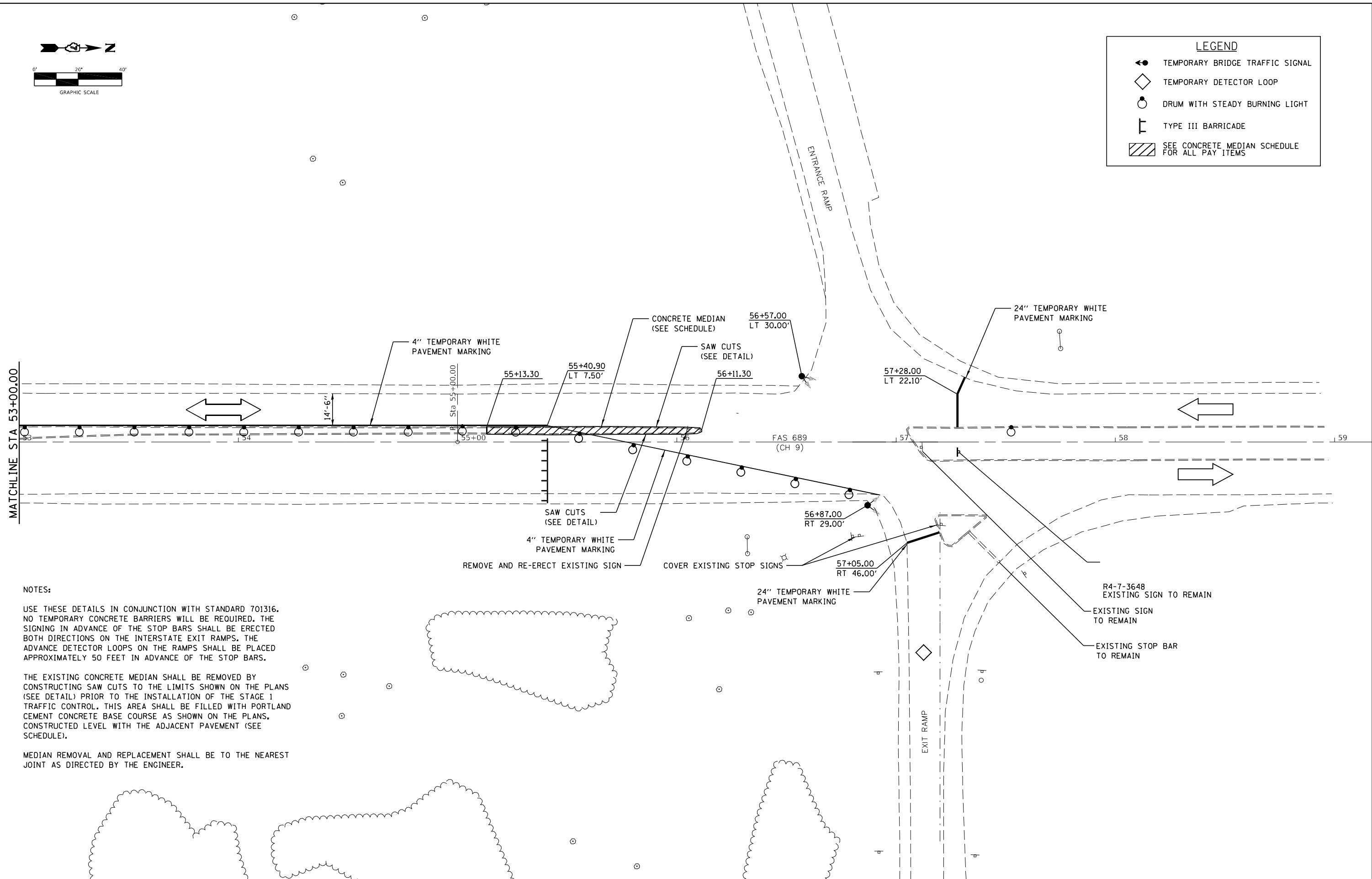
STAGE 2 TRAFFIC CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	13
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



LEGEND	
	TEMPORARY BRIDGE TRAFFIC SIGNAL
	TEMPORARY DETECTOR LOOP
	DRUM WITH STEADY BURNING LIGHT
	TYPE III BARRICADE
	SEE CONCRETE MEDIAN SCHEDULE FOR ALL PAY ITEMS



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PLOT DATE = 11/18/2025	DATE - 8/15/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

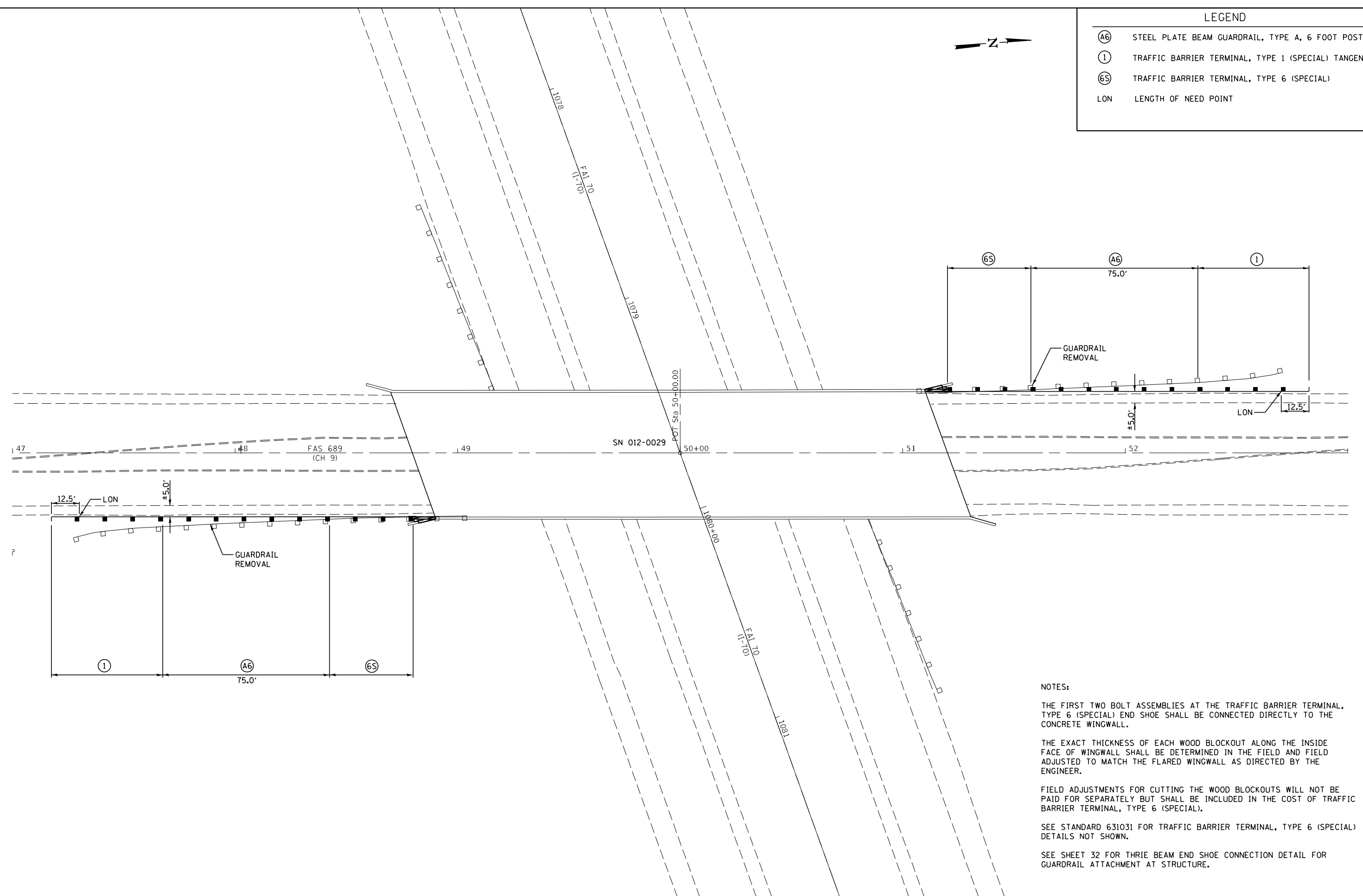
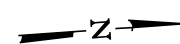
STAGE 2 TRAFFIC CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	14
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				

LEGEND

- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (6S) TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)
- LON LENGTH OF NEED POINT



NOTES:

THE FIRST TWO BOLT ASSEMBLIES AT THE TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL) END SHOE SHALL BE CONNECTED DIRECTLY TO THE CONCRETE WINGWALL.

THE EXACT THICKNESS OF EACH WOOD BLOCKOUT ALONG THE INSIDE FACE OF WINGWALL SHALL BE DETERMINED IN THE FIELD AND FIELD ADJUSTED TO MATCH THE FLARED WINGWALL AS DIRECTED BY THE ENGINEER.

FIELD ADJUSTMENTS FOR CUTTING THE WOOD BLOCKOUTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL).

SEE STANDARD 631031 FOR TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL) DETAILS NOT SHOWN.

SEE SHEET 32 FOR THRIE BEAM END SHOE CONNECTION DETAIL FOR GUARDRAIL ATTACHMENT AT STRUCTURE.

MODEL: Default
FILE NAME: 2774.1_guardrail.dgn



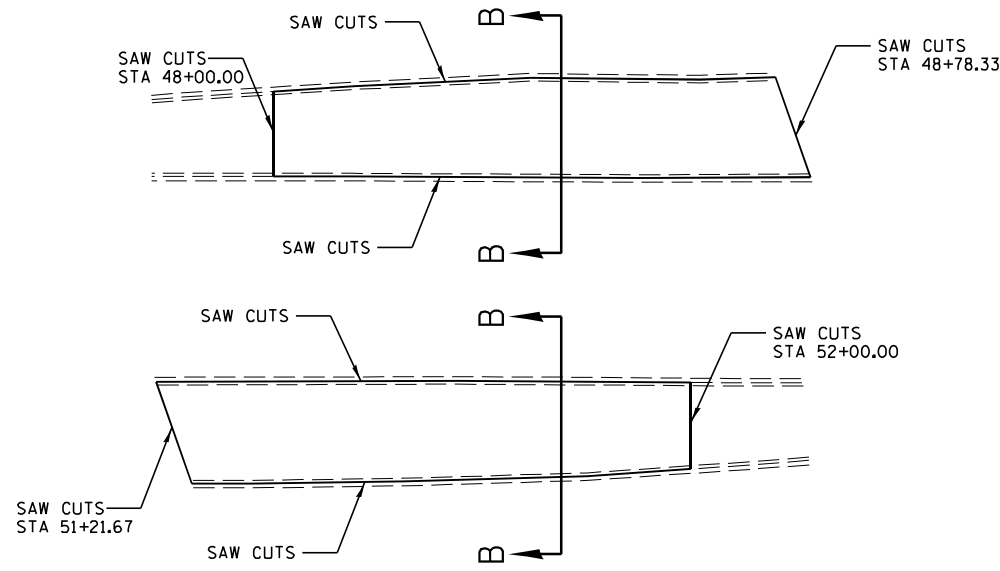
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PLOT DATE = 11/14/2025	DATE - 8/19/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

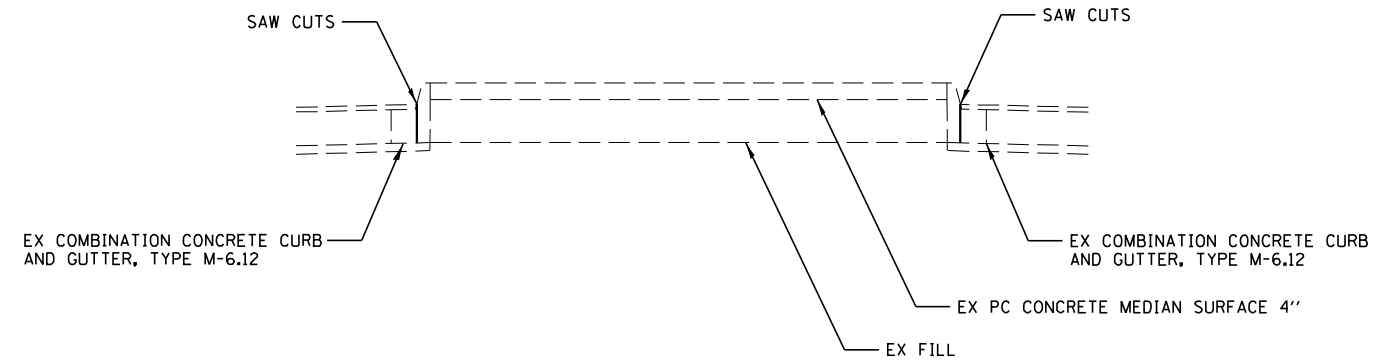
GUARDRAIL DETAILS

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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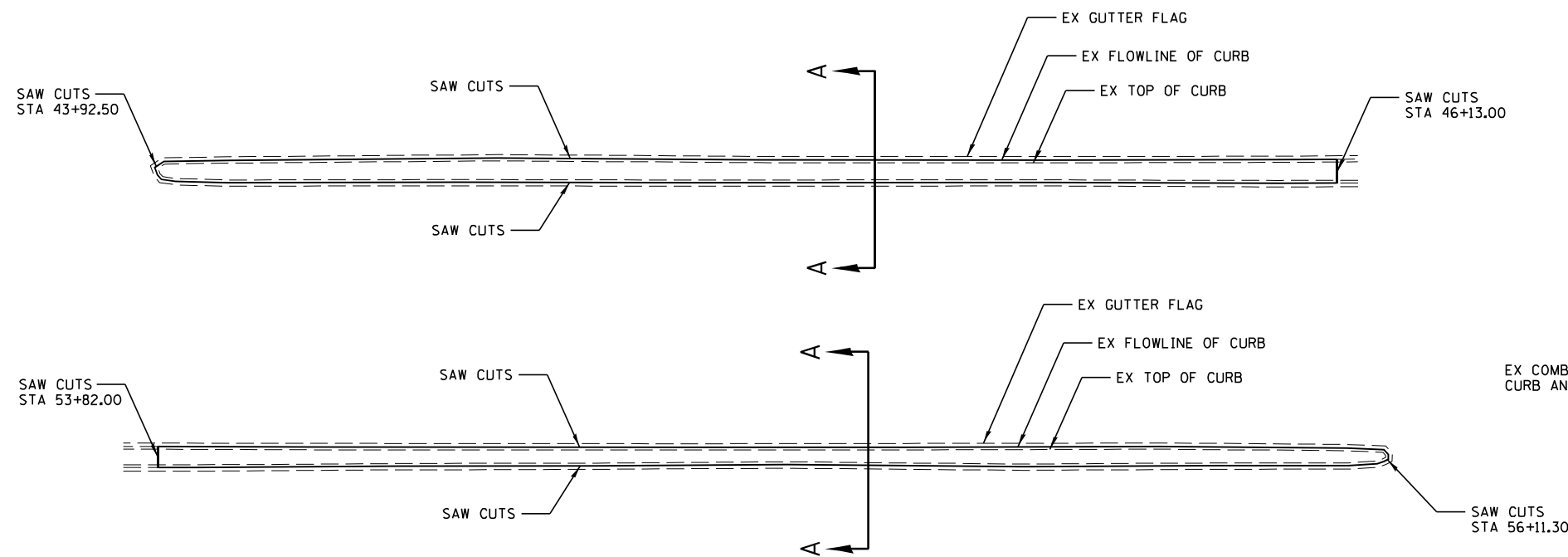
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70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74C49	



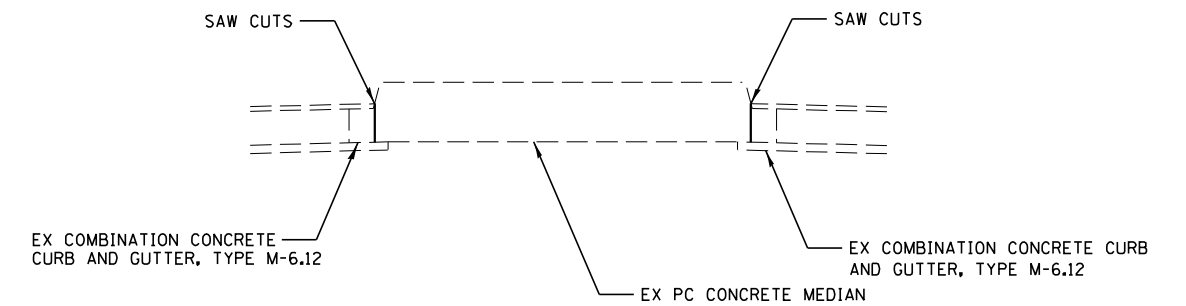
PLAN CONCRETE MEDIAN (NEAR STRUCTURE)



SECTION B-B



PLAN CONCRETE MEDIAN (EACH END OF PROJECT)



SECTION A-A

NOTES:

FULL DEPTH SAW CUTS SHALL BE CONSTRUCTED AT THE FLOWLINE OF THE CURB AS SHOWN AND AT ADDITIONAL LOCATIONS AS SHOWN IN THE DETAILS.

THE GUTTER FLAG SHALL BE LEFT IN PLACE AS TO NOT DISTURB THE HOT-MIX ASPHALT OVERLAY PAVED OVER THE EXISTING GUTTER FLAG.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SAW CUTS.

MODEL: 2774.1
FILE NAME: 2774.1_saw_cut.dgn



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FILE NAME = 2774.1_saw_cut.dgn
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PLOT DATE = 11/18/2025

DESIGNED - CGF
DRAWN - CGF
CHECKED - JLB
DATE - 8/15/2025

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SAW CUT DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2025-1	CLARK	36	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74C49	

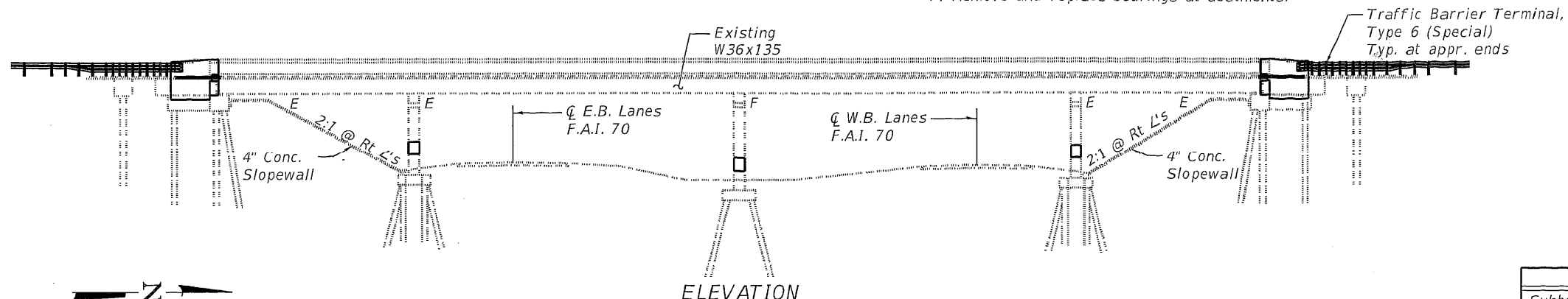
Existing Structure: S.N. 012-0029 was originally constructed in 1968 as Section 12-50HB-1 consisting of a four span W36x135 beam superstructure on a pile supported multi-column pier and pile supported abutments. New overlay, expansion joints and other repairs to be completed under stage construction.

SCOPE OF WORK

1. Remove and replace overlay.
2. Repair bridge deck and median.
3. Remove and replace existing deck drains.
4. Remove and replace abutment backwalls.
5. Remove and replace expansion joints.
6. Repair abutments and piers.
7. Remove and replace bearings at abutments.

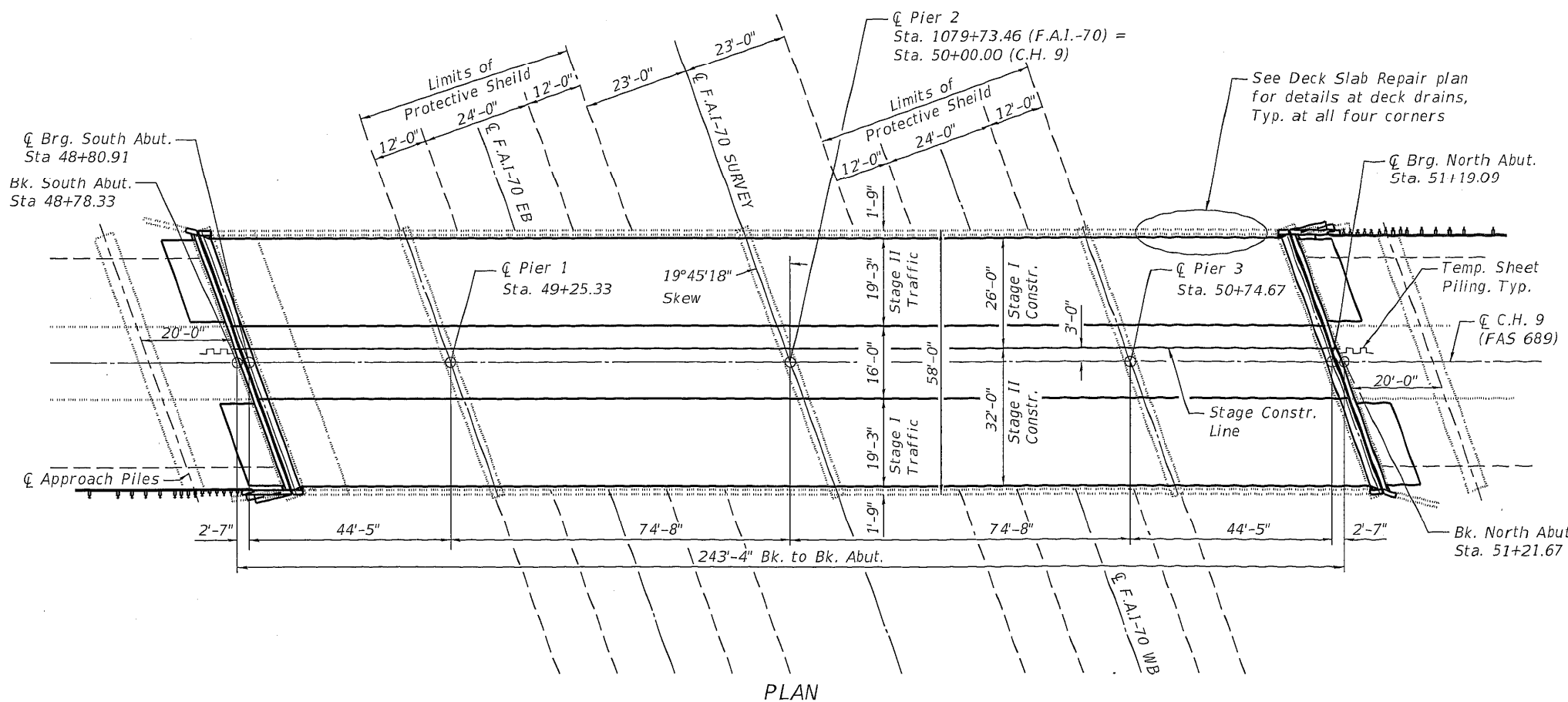
INDEX OF SHEETS

1. General Plan & Elevation
2. Stage Construction Details
3. Slopewall Repairs
- 4.-5. Deck Slab Repairs
6. Drain Elimination and Replacement Details
- 7.-9. Joint Replacement Details
10. Modified Preformed Joint Strip Seal
11. Bearing Details
- 12.-16. Abutment Repair Details
- 17.-19. Pier Repair Details
20. Bar Splicer Assembly



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Subbase Granular Material, Type B	Ton		140	140
Concrete Removal	Cu. Yd.	11	34	45
Slope Wall Removal	Sq. Yd.		137	137
Protective Shield	Sq. Yd.	658		658
Structure Excavation	Cu. Yd.		78	78
Floor Drains	Each	16		16
Concrete Structures	Cu. Yd.		56.0	60.2
Concrete Superstructure	Cu. Yd.	19.2		19.2
Protective Coat	Sq. Yd.	1128		1128
Concrete Superstructure (Approach Slab)	Cu. Yd.	24.8		24.8
Furnishing And Erecting Structural Steel	Pound	2680		2680
Reinforcement Bars, Epoxy Coated	Pound	5020	8110	13130
Bar Splicers	Each	16	28	44
Mechanical Splicers	Each	156		156
Slope Wall 4 Inch	Sq. Yd.		137	137
Preformed Joint Strip Seal	Foot	123		123
Elastomeric Bearing Assembly, Type I	Each	18		18
Anchor Bolts, 3/4"	Each	36		36
Temporary Sheet Piling	Sq. Ft.		139	139
Granular Backfill for Structures	Cu. Yd.		78	78
Concrete Sealer	Sq. Ft.		2045	2045
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	793		793
Jack And Remove Existing Bearings	Each	18		18
Approach Slab Removal	Sq. Yd.	61		61
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"	Sq. Yd.	1008		1008
Bridge Deck Scarification 2"	Sq. Yd.	1008		1008
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	263	107	370
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.		30	30
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	20		20
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	12		12
Diamond Grinding (Bridge Section)	Sq. Yd.	873		873
Temporary Shoring And Cribbing	Each	4		4



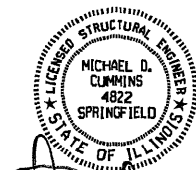
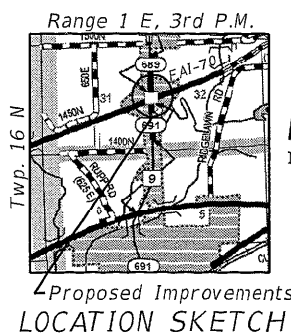
DESIGN STRESSES

FIELD UNITS (New Construction)

- f'c = 3,500 psi (Substructure)
- f'c = 4,000 psi (Superstructure)
- f_y = 60,000 psi (Reinforcement)

FIELD UNITS (Existing Construction)

- f_c = 1,400 psi (Super & Structure)
- f_s = 20,000 psi (Structural)
- f_s = 20,000 psi (Reinforcement)



Michael D. Cummins 1-21-26
(Expires 11/30/26)

GENERAL PLAN AND ELEVATION

CH 9 FAS (689)

OVER I-70 (F.A.I. 70)

CLARK COUNTY

SECTION D7 BRIDGE REPAIRS 2025-1

STA 50+00.00 CH 9 (FAS 689)

STA 1079+73.46 I-70 (F.A.I. 70)

STRUCTURE NO. 012-0029



JOB #	2774.1
FILE NAME	012-0029-74C49-001-GPE.dgn
PLOT DATE	1/21/2026

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CHECKED	- MDC	REVISED	-
DRAWN	- EFB	REVISED	-
CHECKED	- AAN	REVISED	-

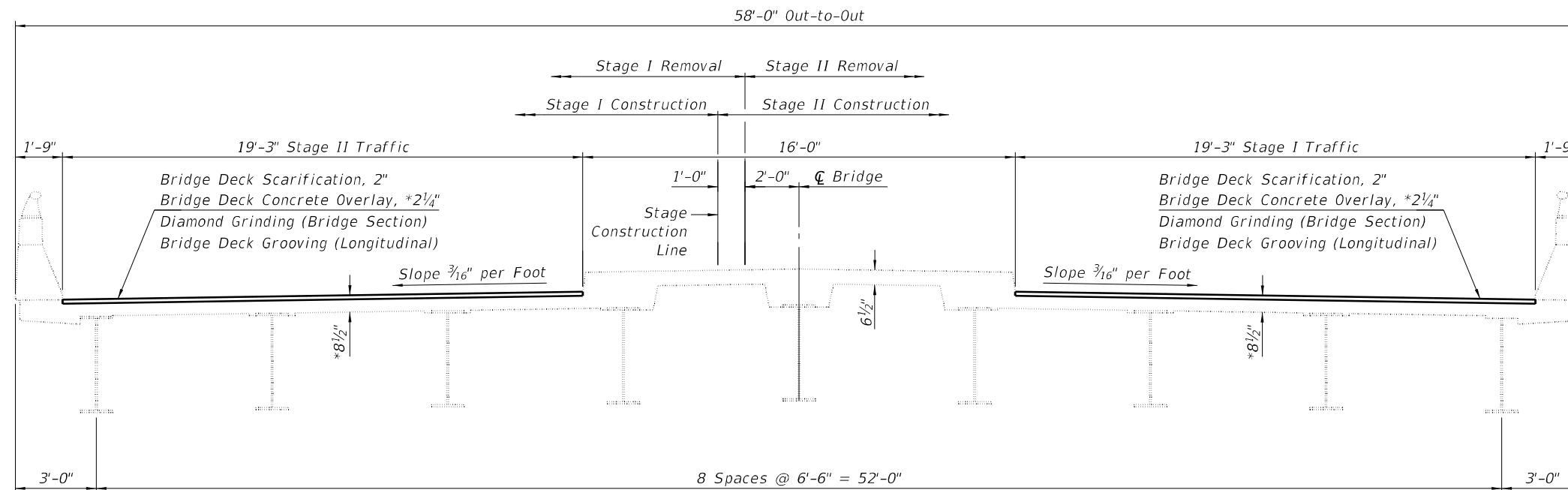
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 012-0029

SHEET 1 OF 20 SHEETS

F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	17
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				

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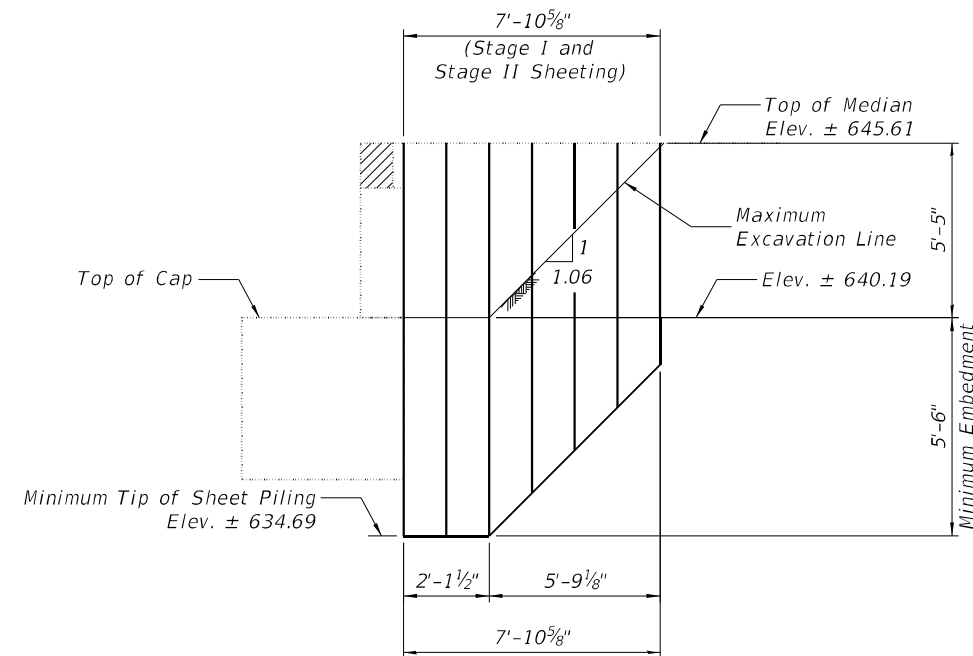


STAGE CONSTRUCTION DETAIL
(Looking North)

*Overlay thickness prior to grinding.

GENERAL NOTES

- All structural steel shall conform to AASHTO Classification M-270 Gr. 36.
- Reinforcement bars designated (E) shall be epoxy coated.
- 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 paid for according to Article 109.04 of the Standard Specifications.
- As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4" in deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- 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.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
- 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 shall be applied to the concrete wearing surface and new concrete at parapets, joints, medians and slope walls.
- Synthetic fibers to be included in the concrete overlay. Cost included with BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/4".
- 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.
- 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.



TEMPORARY SHEET PILING DETAILS

Minimum Section Modulus = 1.48 in³

Notes:

If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculation will be required for review and acceptance by the engineer

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

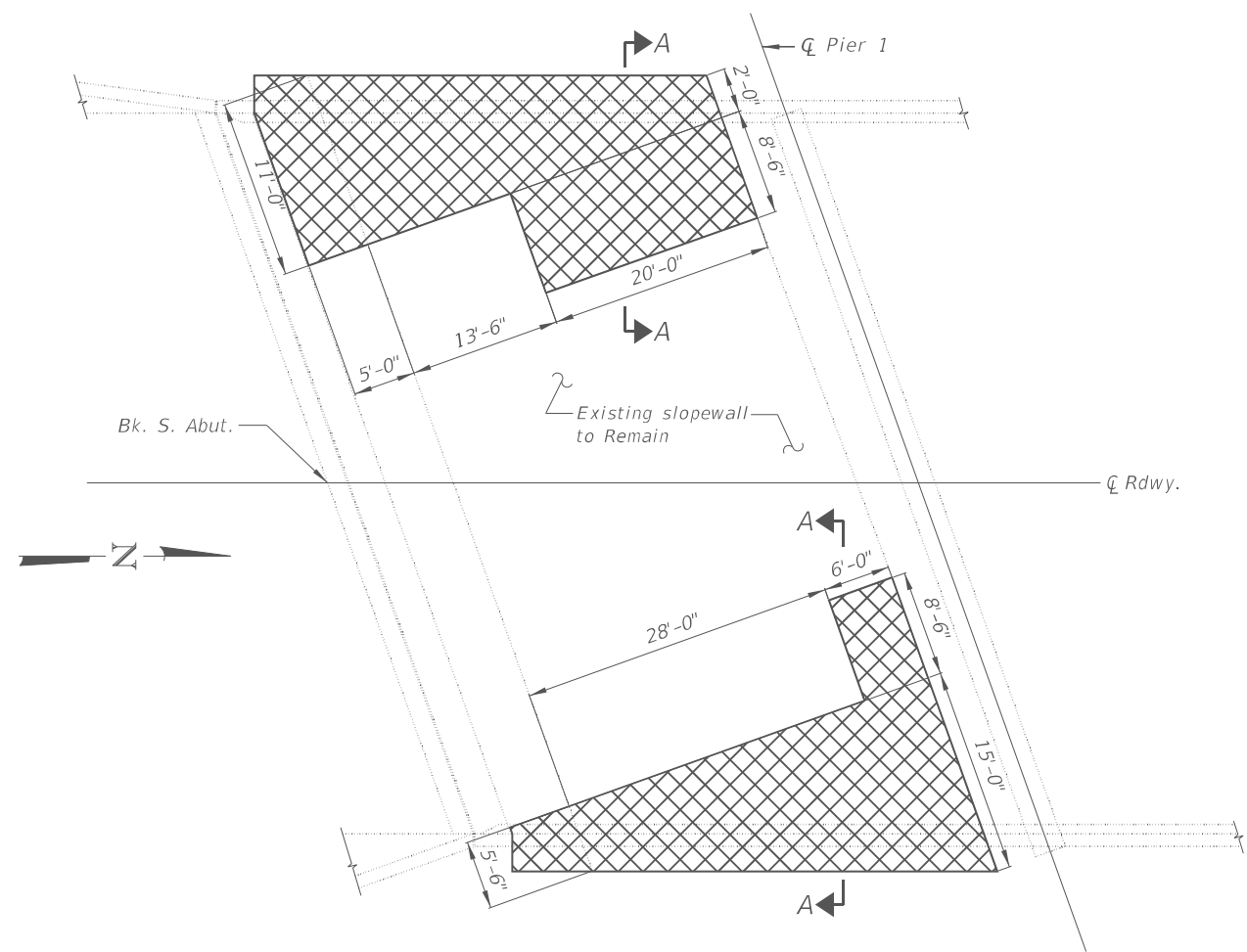
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 012-0029**

SHEET 2 OF 20 SHEETS

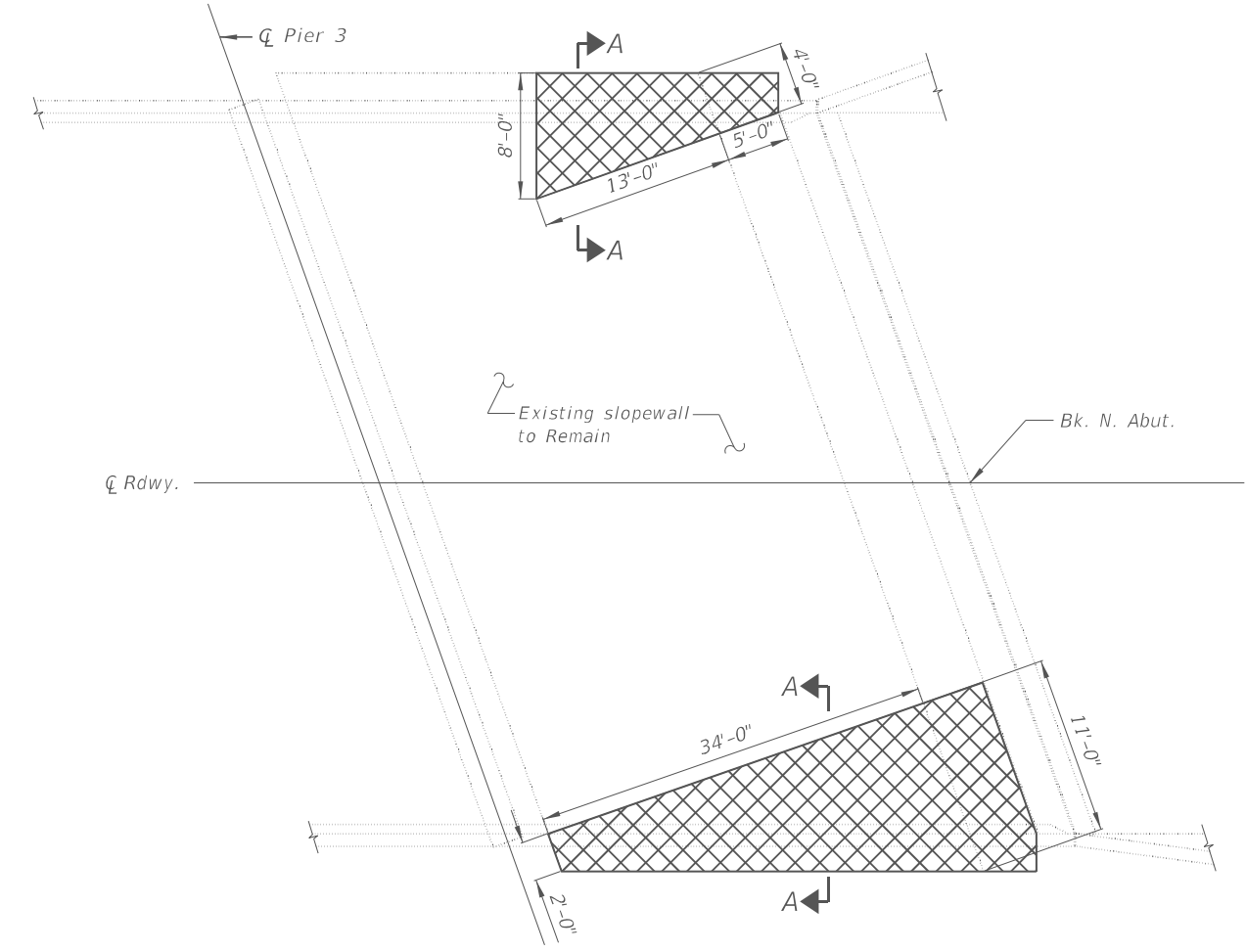
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CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	18
CONTRACT NO. 74C49				

ILLINOIS FED. AID PROJECT

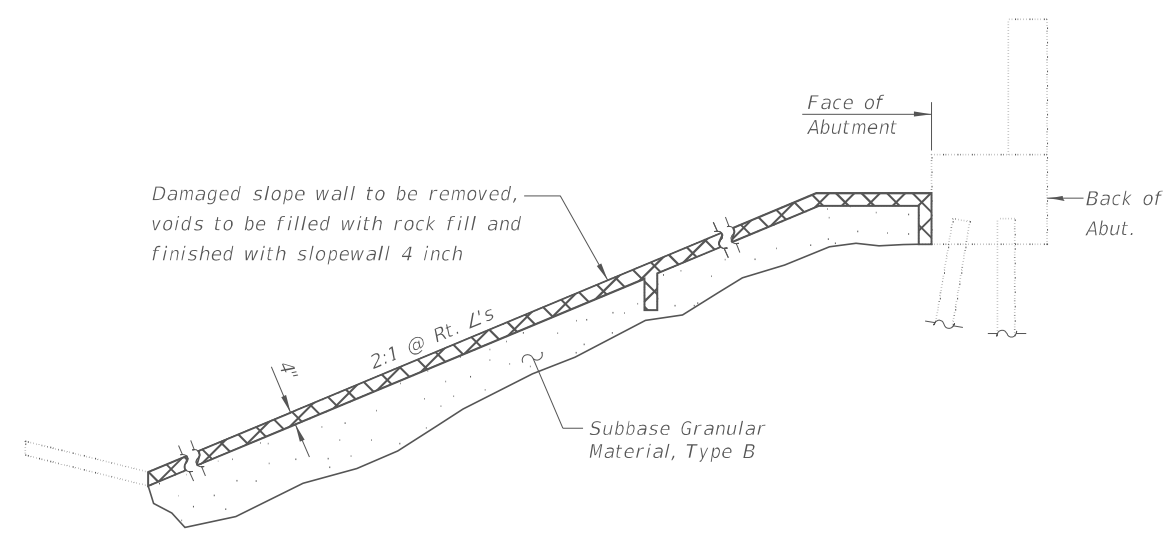
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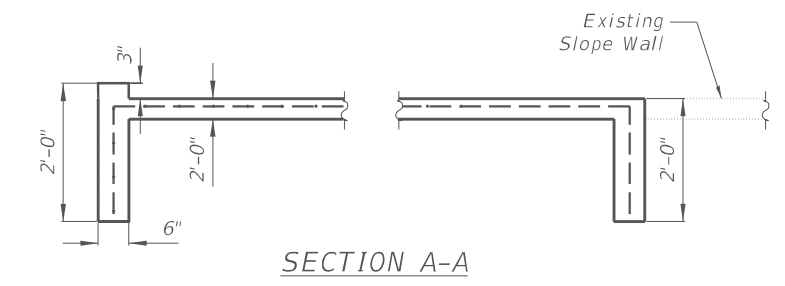
PLAN AT SOUTH SLOPEWALL
 (Length Measured Along Slope)



PLAN AT NORTH SLOPEWALL
 (Length Measured Along Slope)



TYPICAL SECTION THRU EXISTING CONCRETE SLOPEWALL



SECTION A-A

Notes:

Prior to partial removal of any concrete slopewall 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.

Assumed 1'-6" depth of the Subbase Granular Material in quantity calculation. To be confirmed by field engineer.

LEGEND

XXXXX Slope Wall Removal

BILL OF MATERIAL

Item	Unit	Total
Slope Wall Removal	Sq. Yd.	137
Slope Wall 4 Inch	Sq. Yd.	137
Subbase Granular Material, Type B	Ton	140
Protective Coat	Sq. Yd.	137



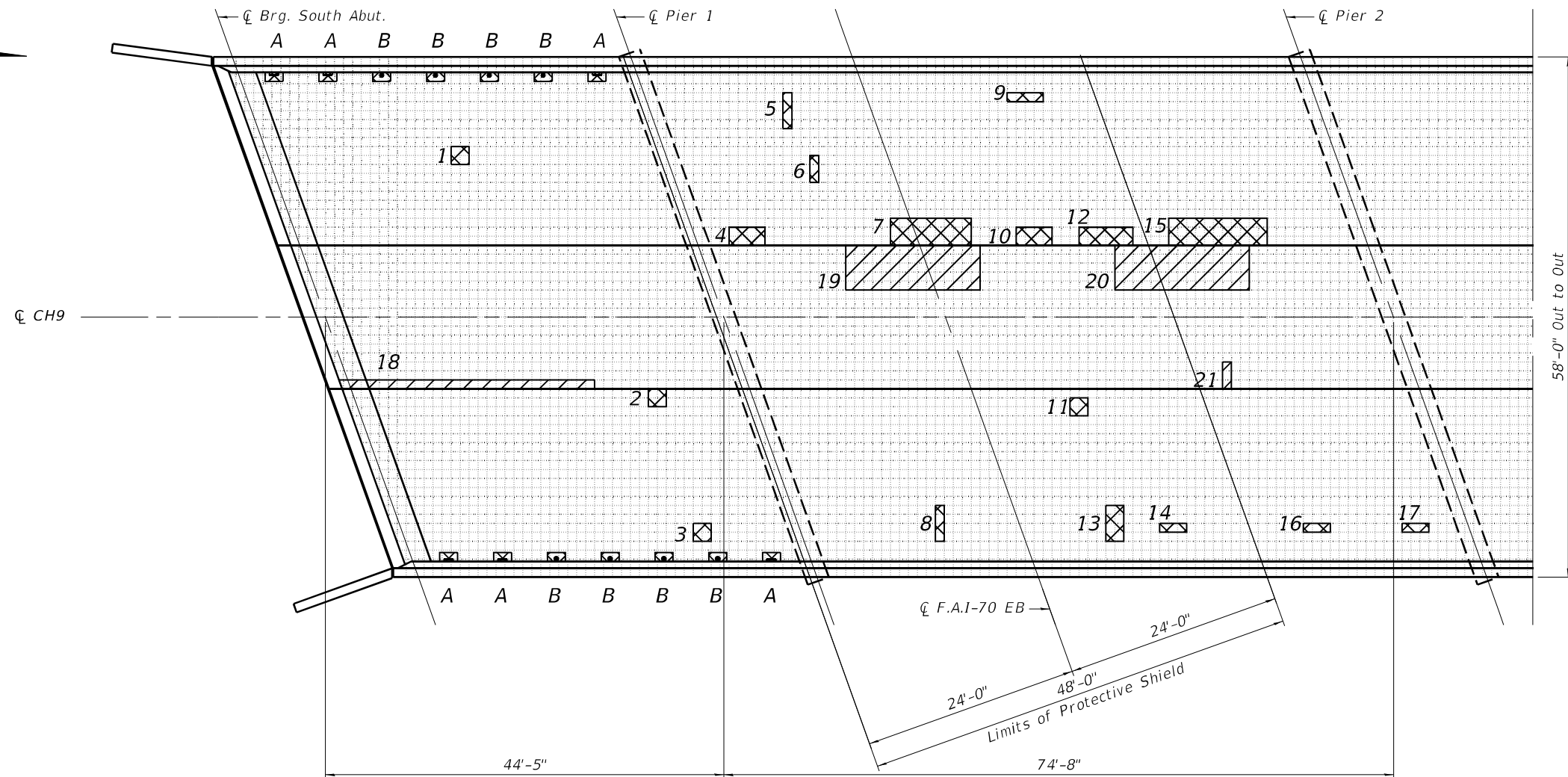
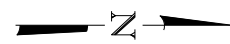
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	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SLOPEWALL REPAIRS
 STRUCTURE NO. 012-0029**

SHEET 3 OF 20 SHEETS

F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	19
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



BRIDGE DECK PATCHING PLAN
SPANS 1 & 2

NOTES

See sheet 6 of 20 for drain elimination and replacement details.

Areas of deck repairs shown are estimated.

The Engineer shall show actual locations and size of deck repairs on As-built Plans.

LEGEND

- Deck Slab Repair Full Depth
- Structural Repair of Concrete - Depth ≤ 5"
- A Remove Deck Drain
- B Remove & Replace Deck Drain

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	8
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	11
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	177

PATCH NO.	SIZE (FOOT)	REPAIR TYPE		
		DECK SLAB REPAIR (FULL DEPTH, TYPE I)	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)
		SQ. YD.	SQ. YD.	SQ. FT.
1	2x2	0.44		
2	2x2	0.44		
3	2x2	0.44		
4	2x4		0.89	
5	4x1	0.44		
6	3x1	0.33		
7	3x9		3.00	
8	4x1	0.44		
9	1x4	0.44		
10	2x4		0.89	
SUBTOTAL		2.97	4.78	-

PATCH NO.	SIZE (FOOT)	REPAIR TYPE		
		DECK SLAB REPAIR (FULL DEPTH, TYPE I)	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)
		SQ. YD.	SQ. YD.	SQ. FT.
11	2x2	0.44		
12	2x6		1.33	
13	4x2		0.89	
14	1x3	0.33		
15	3x11		3.67	
16	1x3	0.33		
17	1x3	0.33		
18	1x24			24
19	5x15			75
20	5x15			75
SUBTOTAL		1.43	5.89	174

PATCH NO.	SIZE (FOOT)	REPAIR TYPE		
		DECK SLAB REPAIR (FULL DEPTH, TYPE I)	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)
		SQ. YD.	SQ. YD.	SQ. FT.
21	3x1			3
A - Remove Drain, 6 ea		1.33		
B - Replace Drain, 8 ea		1.78		
SUBTOTAL		3.11		3
TOTAL		7.51	10.67	177

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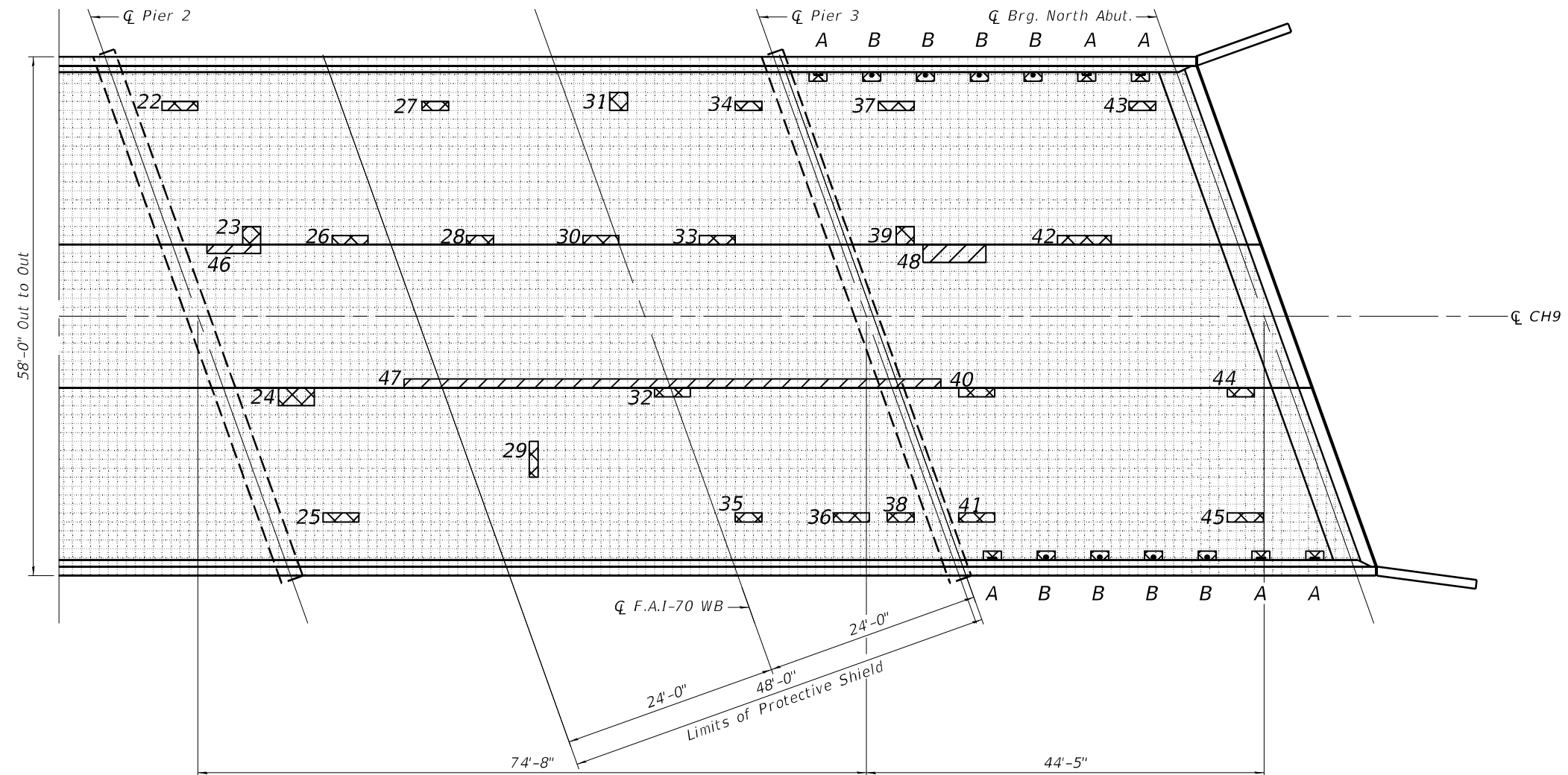
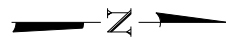
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIRS
STRUCTURE NO. 012-0029

SHEET 4 OF 20 SHEETS

F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	20
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



BRIDGE DECK PATCHING PLAN
SPANS 3 & 4

NOTES

See sheet 6 of 20 for drain elimination and replacement details.

Areas of deck repairs shown are estimated.

The Engineer shall show actual locations and size of deck repairs on As-built Plans.

LEGEND

- Deck Slab Repair Full Depth
- Structural Repair of Concrete - Depth ≤ 5"
- A Remove Deck Drain
- B Remove & Replace Deck Drain

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	12
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	86

PATCH NO.	SIZE (FOOT)	DECK SLAB REPAIR (FULL DEPTH, TYPE I)			STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)
		SQ. YD.	SQ. YD.	SQ. FT.	
22	1x4	0.44			
23	2x2	0.44			
24	2x4		0.89		
25	1x4	0.44			
26	1x4	0.44			
27	1x3	0.33			
28	1x3	0.33			
29	4x1	0.44			
30	1x4	0.44			
31	2x2	0.44			
SUBTOTAL		3.74	0.89	-	

PATCH NO.	SIZE (FOOT)	DECK SLAB REPAIR (FULL DEPTH, TYPE I)			STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)
		SQ. YD.	SQ. YD.	SQ. FT.	
32	1x4	0.44			
33	1x4	0.44			
34	1x3	0.33			
35	1x3	0.33			
36	1x4	0.44			
37	1x4	0.44			
38	1x3	0.33			
39	2x2	0.44			
40	1x4	0.44			
41	1x4	0.44			
SUBTOTAL		4.07	-	-	

PATCH NO.	SIZE (FOOT)	DECK SLAB REPAIR (FULL DEPTH, TYPE I)			STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)
		SQ. YD.	SQ. YD.	SQ. FT.	
42	1x6			6	
43	1x3	0.33			
44	1x3	0.33			
45	1x4	0.44			
46	1x6			6	
47	1x60			60	
48	2x7			14	
A - Remove Drain, 6 ea		1.33			
B - Replace Drain, 8 ea		1.78			
SUBTOTAL		4.22	-	86	
TOTAL		12.02	0.89	86	

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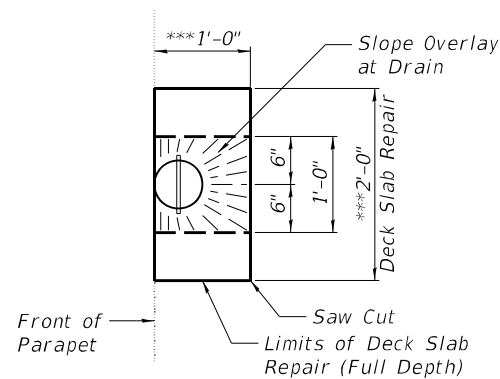
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIRS
STRUCTURE NO. 012-0029**

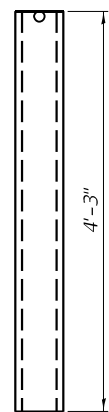
SHEET 5 OF 20 SHEETS

F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74C49				

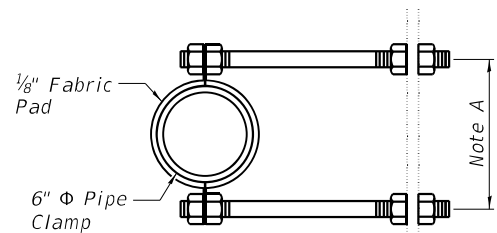
ILLINOIS FED. AID PROJECT



TOP PLAN DECK REPAIR AT PROPOSED DRAINS

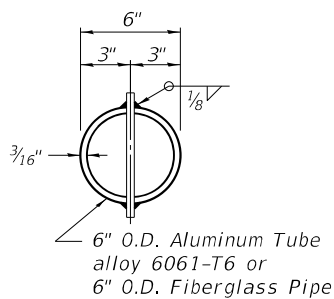


DRAIN DETAIL
16 Required

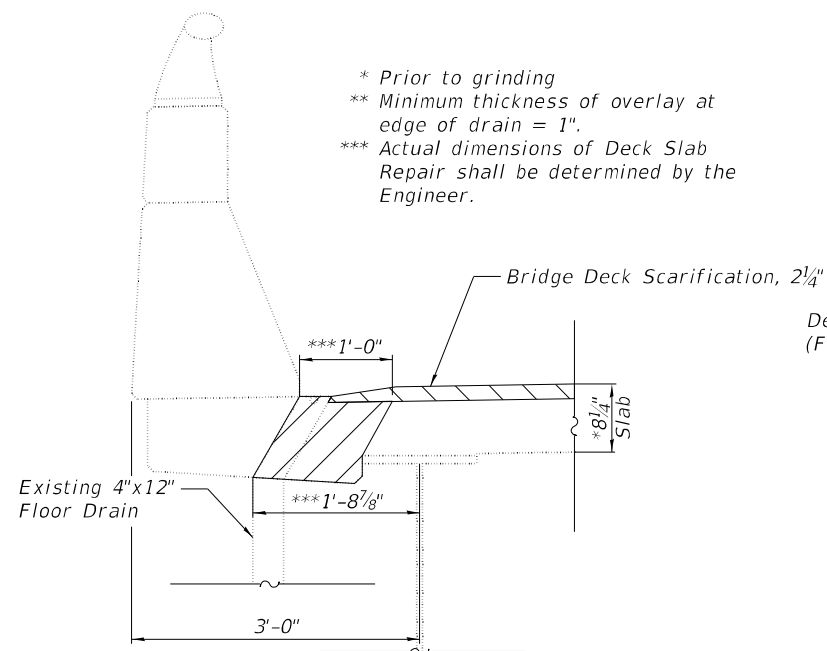


Note A: Dimension as required by Pipe Clamp

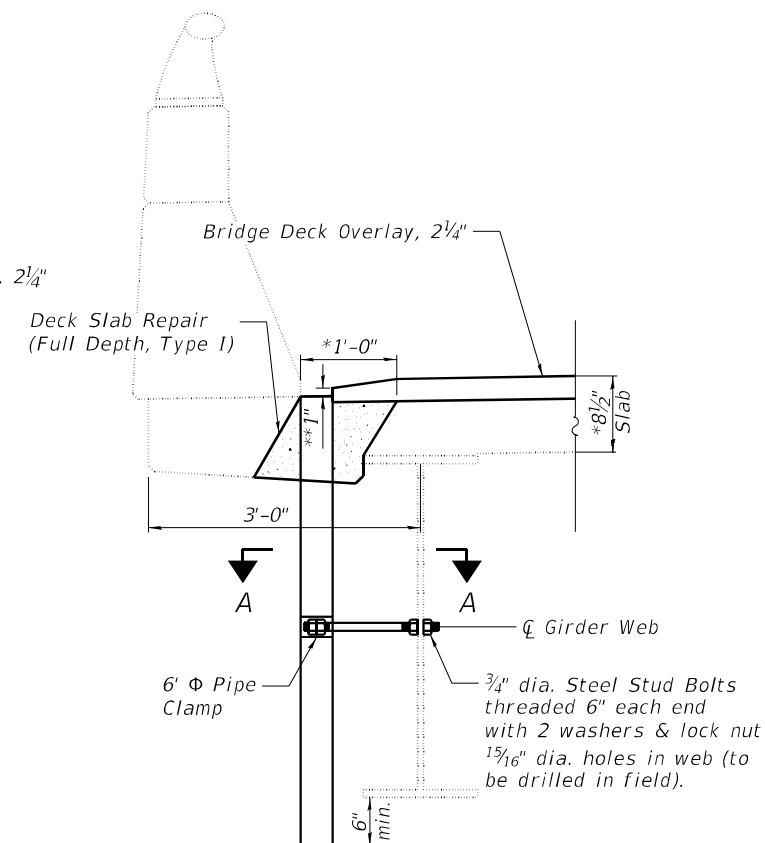
SECTION A-A



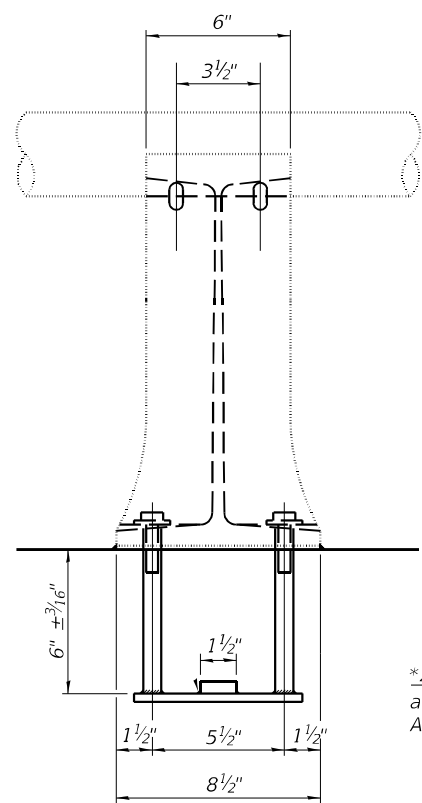
TOP PLAN



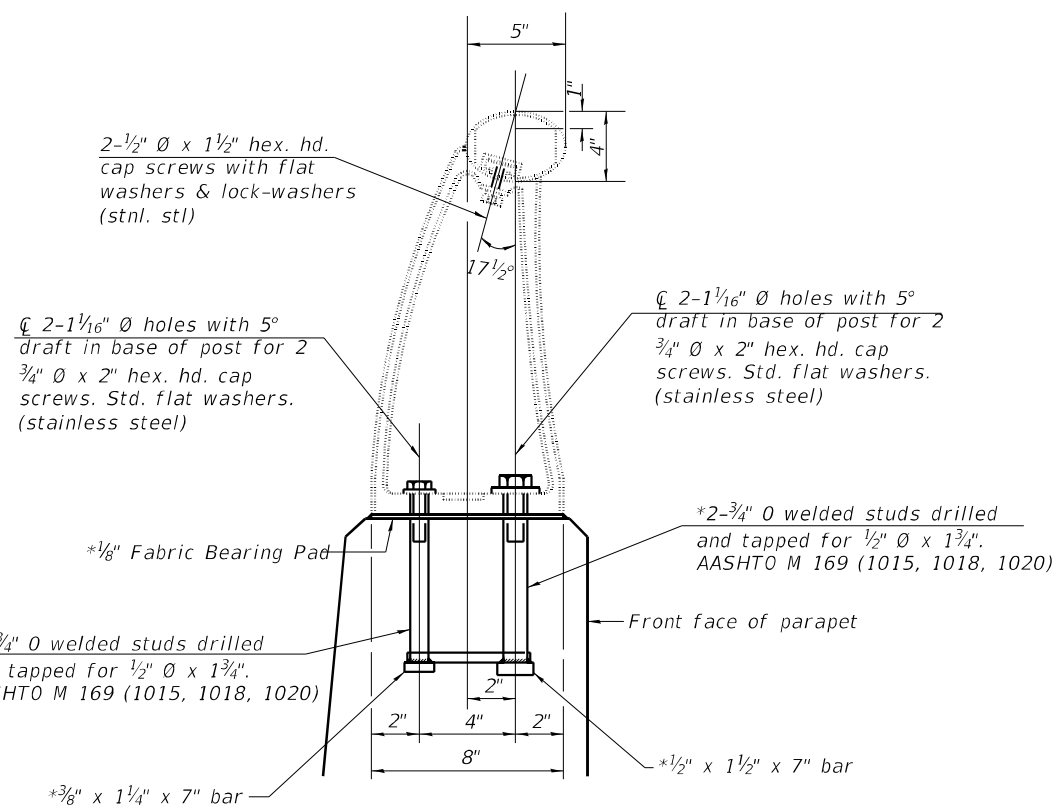
SECTION THRU EXISTING FLOOR DRAIN



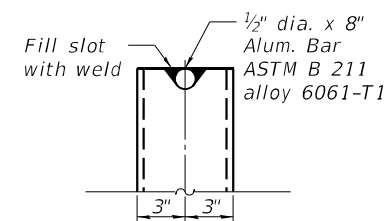
DRAIN REPLACEMENT DETAIL



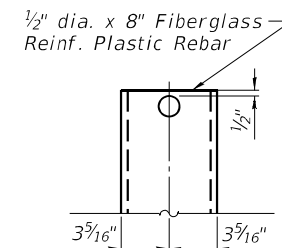
ELEVATION AT RAILPOST



RAIL POST ANCHOR DETAILS



ALUMINUM TUBE



FIBERGLASS PIPE

NOTES

Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

Galvanize clamping device according to AASHTO M323. Cost of clamping device, bolts and galvanizing is included with Floor Drains.

Concrete removal and replacement quantities and locations for drains are included in Deck Slab Repair (Full Depth, Type I) as shown on "Deck Slab Repair" Sheet 4 & 5 of 20.

The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings' Spec. SSPC-SP1 prior to painting.

BILL OF MATERIAL

Item	Unit	Total
Floor Drains	Each	16

MODEL: Default
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CEC Cummins
Engineering
Corporation
ENGINEERS & SURVEYORS

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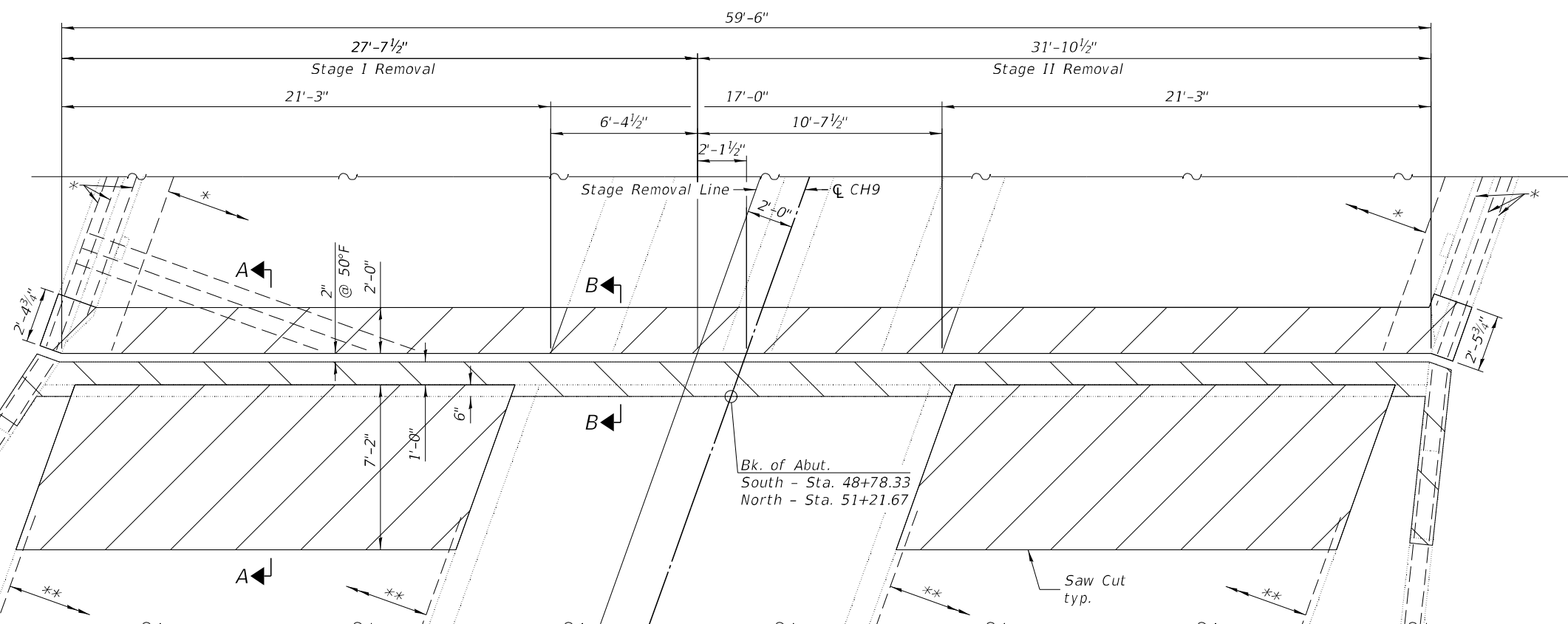
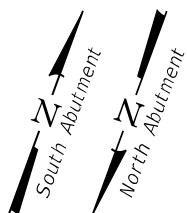
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAIN ELIMINATION AND REPLACEMENT DETAILS
STRUCTURE NO. 012-0029

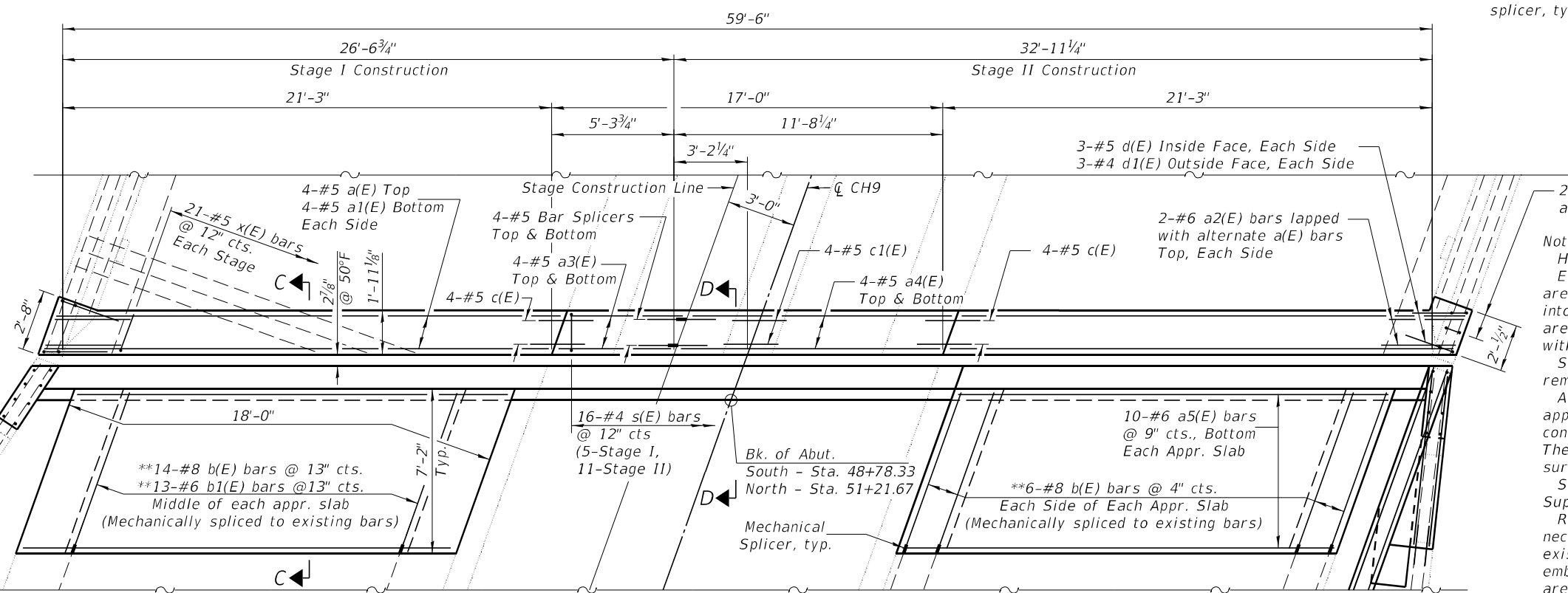
SHEET 6 OF 20 SHEETS

F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	22
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



EXISTING PLAN AT EXPANSION JOINT

* Existing reinforcement to remain.
 ** Cut existing longitudinal reinforcement in bottom of approach pavement 6" from removal line for installation of mechanical splicer, typ.



PROPOSED PLAN AT EXPANSION JOINT

Notes:
 Hatched areas indicate limits of Concrete Removal. Existing reinforcement bars extending into removal areas shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. See Sheets 12 thru 16 of 20 for abutment concrete removal and reinforcement detail.
 A uniformly straight saw cut shall be made along approach pavement removal line where proposed new construction will abut existing hot-mix asphalt surfaces. The saw cut shall be made full depth thru the existing surface. Cost included in Concrete Removal.
 See Sheet 9 of 20 for reinforcement details and Superstructure Bill of Material.
 Removal and reinstallation of the guardrail will be necessary for construction of the expansion joints. The existing guardrail sections shall be reused. All embedded ancors that are within the concrete removal area shall be cleaned and incorporated in the new construction or new approved alternatives shall be supplied and installed. This work and all materials shall be included in the contract unit price for Concrete Superstructure.

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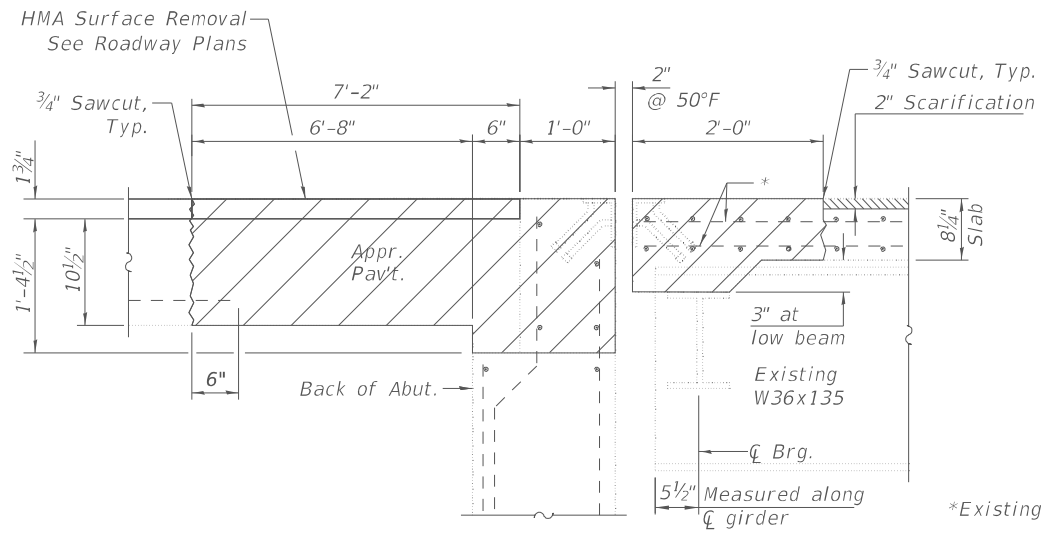
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS
 STRUCTURE NO. 012-0029

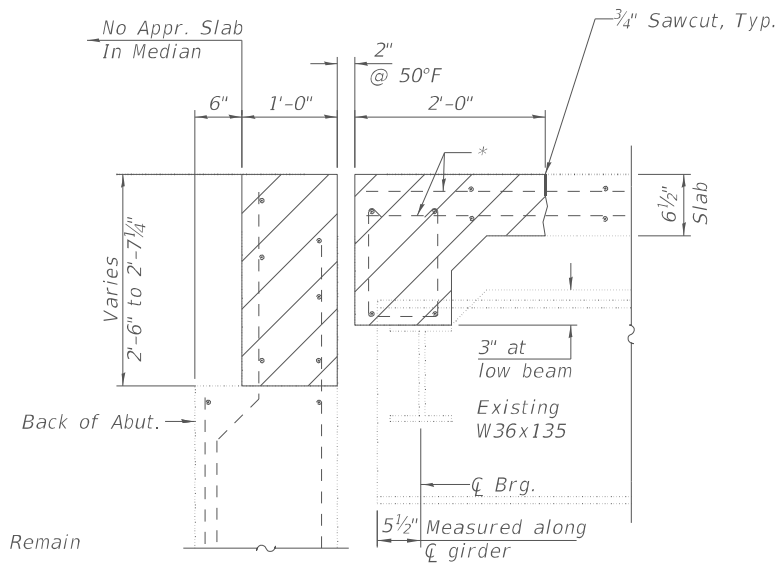
SHEET 7 OF 20 SHEETS

F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



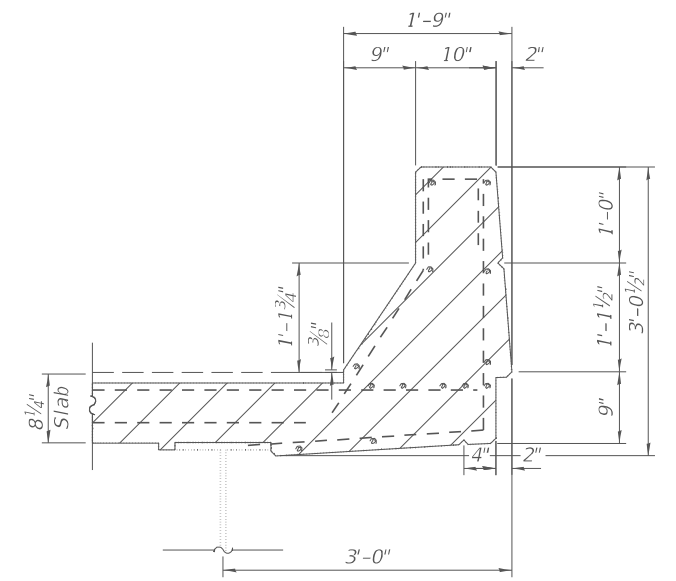
SECTION A-A

(Showing Removal)
(Horiz. Dim. at Rt. L's)



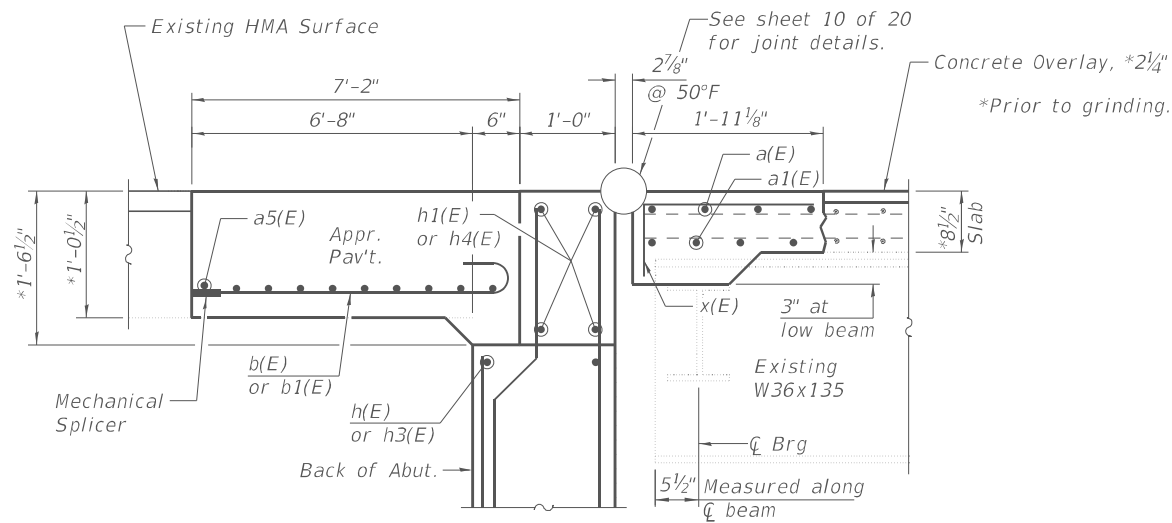
SECTION B-B

(Showing Removal)
(Horiz. Dim. at Rt. L's)



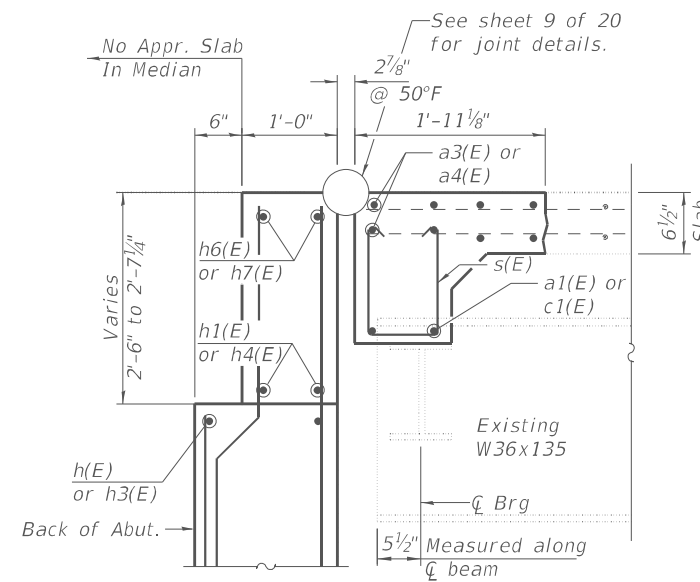
SECTION THRU PARAPET

(Showing Removal)



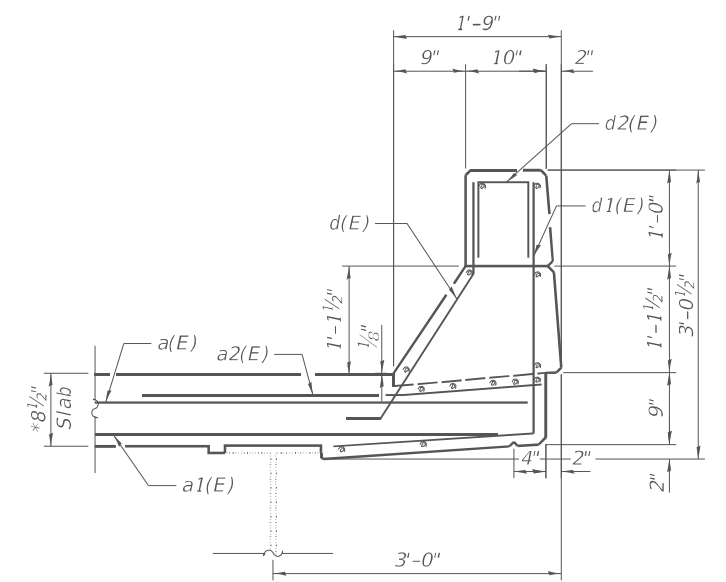
SECTION C-C

(Showing Proposed)
(Horiz. Dim. at Rt. L's)



SECTION D-D

(Showing Proposed)
(Horiz. Dim. at Rt. L's)



SECTION THRU PARAPET

(Showing Proposed)

Notes:
Hatched areas indicate limits of Concrete Removal.
See Sheet 9 of 20 for reinforcement details and Superstructure Bill of Material.

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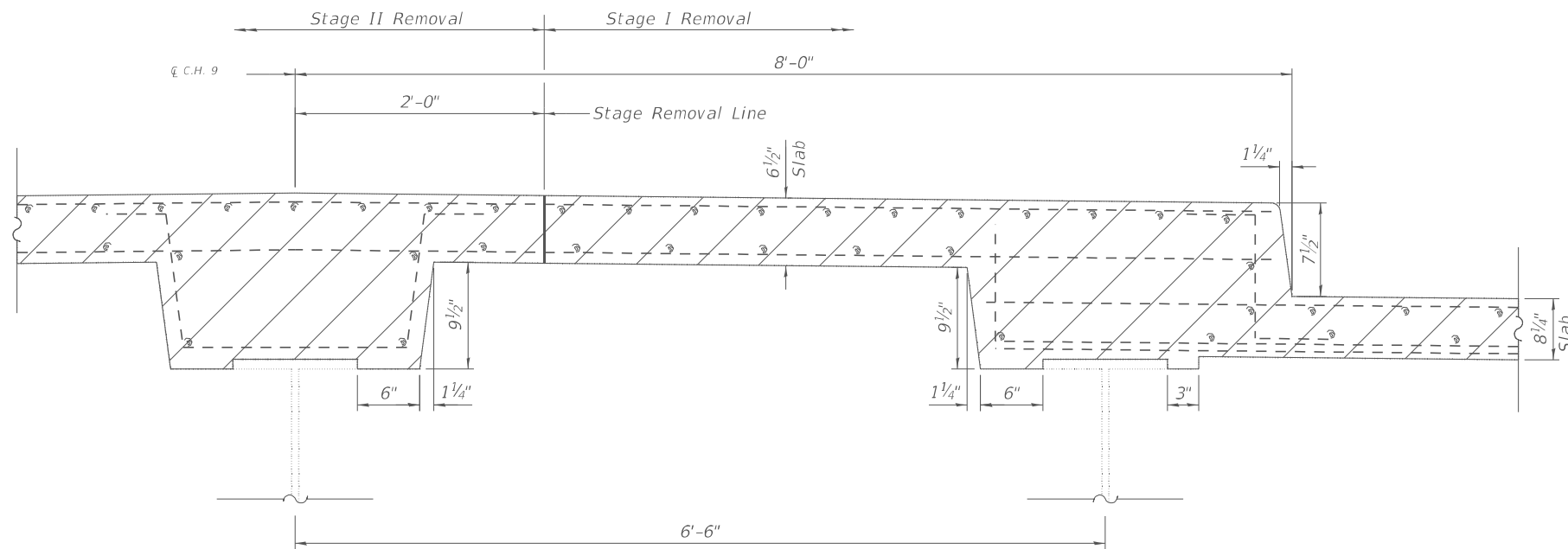
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

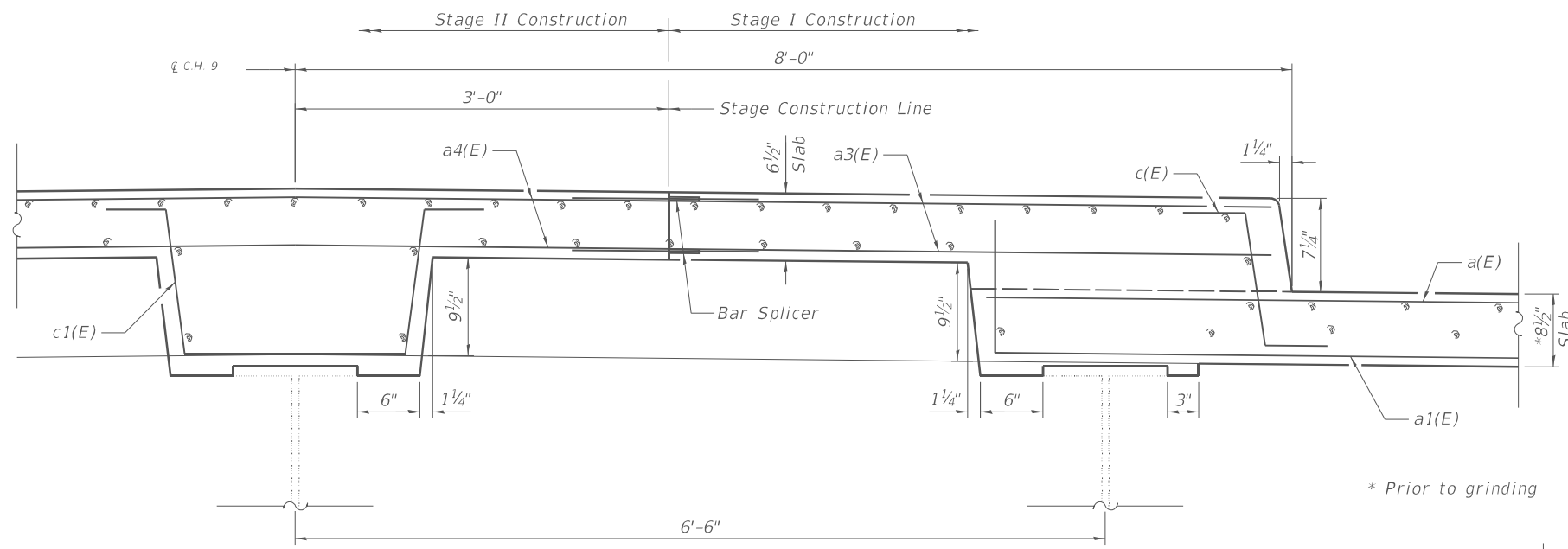
JOINT REPLACEMENT DETAILS
STRUCTURE NO. 012-0029

SHEET 8 OF 20 SHEETS

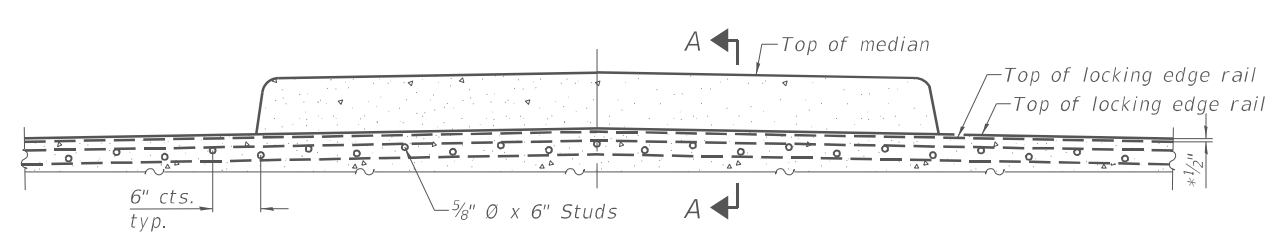
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CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	24
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



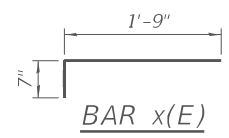
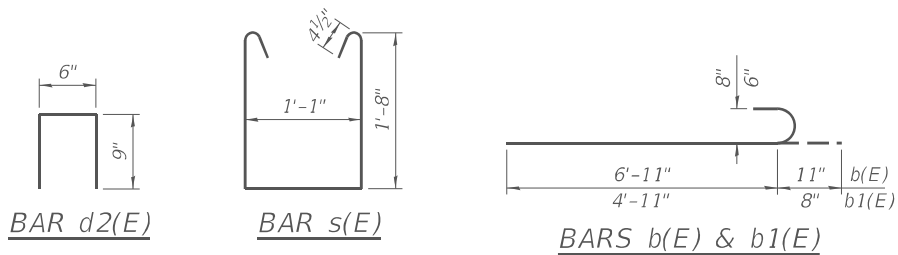
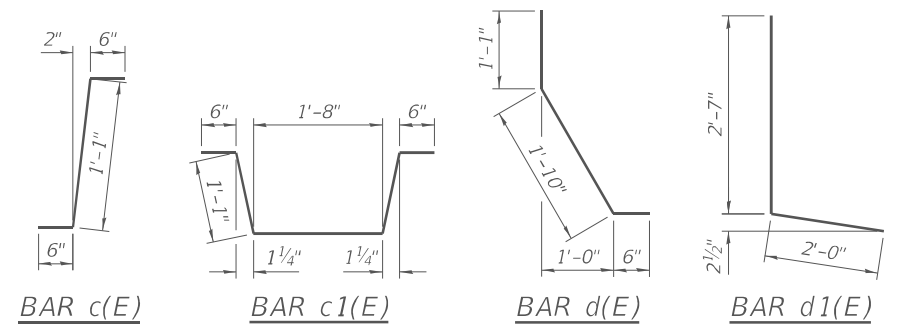
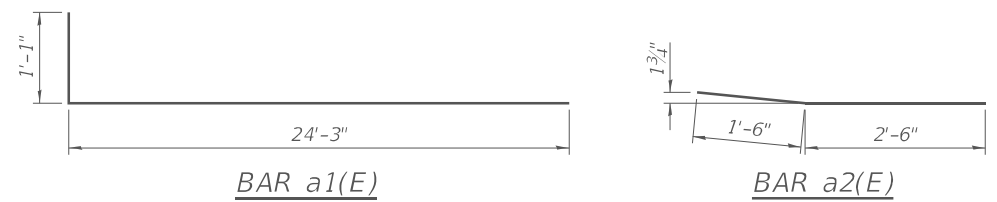
SECTION THRU MEDIAN
(Showing Removal, Looking South)
(Horiz. Dim. at Rt. L's to C.Rdwy.)



SECTION THRU MEDIAN
(Showing Proposed, Looking South)
(Horiz. Dim. at Rt. L's to C.Rdwy.)



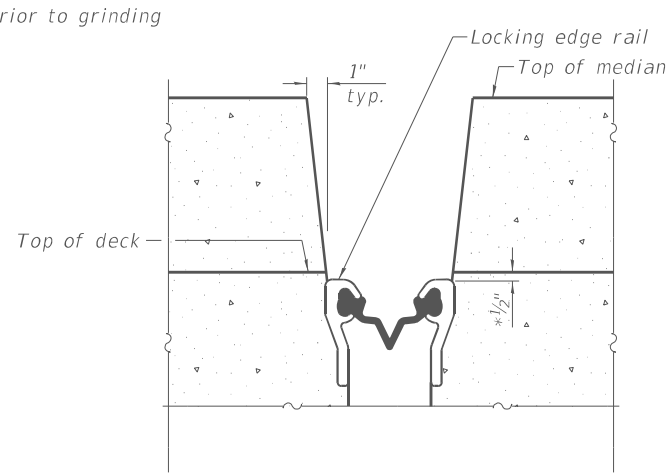
ELEVATION AT MEDIAN SHOWING STRIP SEAL



**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	16	#5	24'-3"	—
a1(E)	16	#5	25'-4"	└
a2(E)	8	#6	4'-0"	└
a3(E)	16	#5	4'-10"	—
a4(E)	16	#5	11'-3"	—
a5(E)	40	#5	18'-9"	—
b(E)	104	#8	7'-10"	└
b1(E)	52	#6	5'-7"	└
c(E)	16	#5	2'-1"	└
c1(E)	8	#5	4'-10"	└
d(E)	12	#5	3'-5"	└
d1(E)	12	#4	4'-7"	└
d2(E)	8	#4	2'-0"	└
s(E)	32	#4	5'-2"	└
x(E)	84	#5	2'-4"	└
Reinforcement Bars, Epoxy Coated			Pound	5020
Concrete Removal			Cu. Yd.	11.0
Concrete Superstructure			Cu. Yd.	19.2
Approach Slab Removal			Sq. Yd.	61
Concrete Superstructure (Approach Slab)			Cu. Yd.	24.8

Notes:
Hatched areas indicate limits of Concrete Removal.



SECTION A-A
(Horiz. Dim. at Rt. L's to C.Rdwy.)

MODEL: Default
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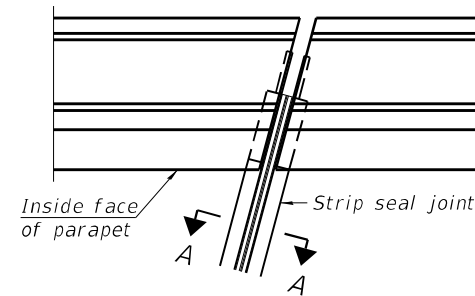
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FILE NAME =	012-0029-74C49-007-010-ExpJl Replacement_Detail.dgn	DRAWN -	EFB	REVISED -	
PLOT DATE =	1/21/2026	CHECKED -	MDC	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

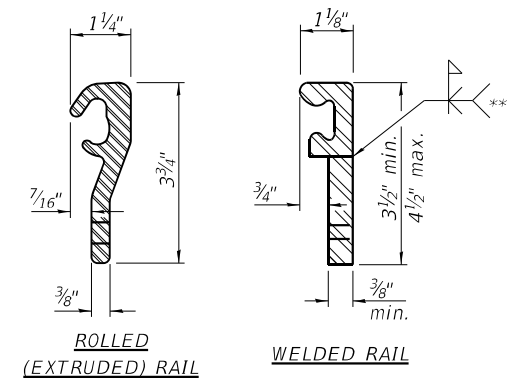
**JOINT REPLACEMENT DETAILS
STRUCTURE NO. 012-0029**

SHEET 9 OF 20 SHEETS

F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	25
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



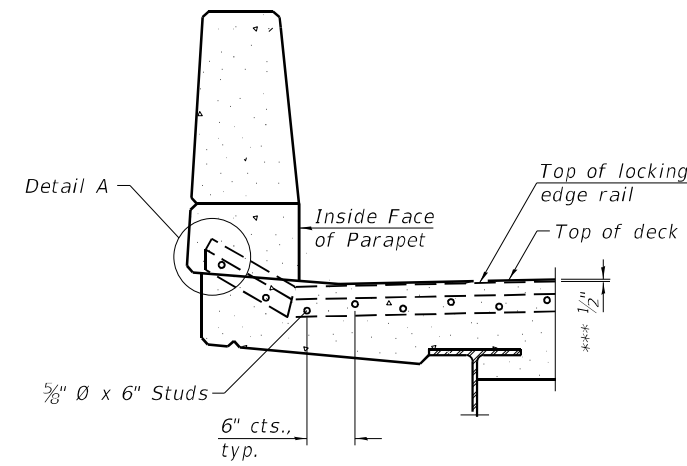
PLAN AT PARAPET



LOCKING EDGE RAILS

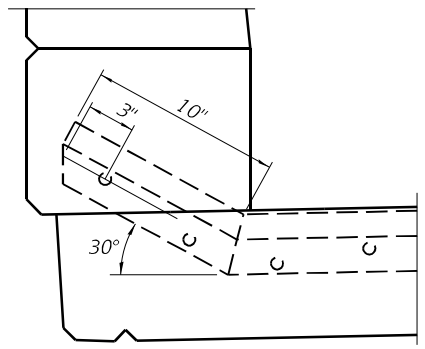
** Back gouge not required if complete joint penetration is verified by mock-up.

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.
 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.

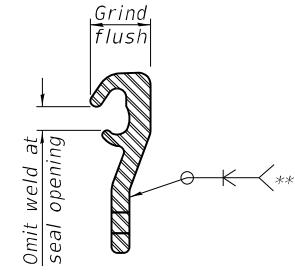


ELEVATION AT PARAPET

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

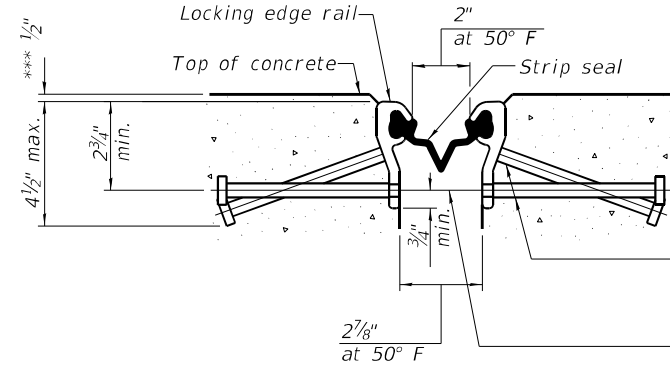


DETAIL A

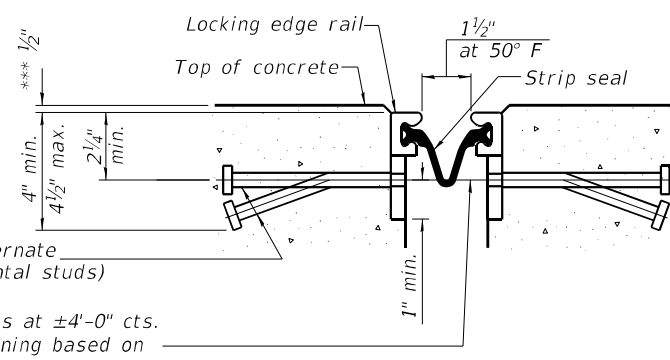


LOCKING EDGE RAIL SPLICE

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



SHOWING ROLLED RAIL JOINT



SHOWING WELDED RAIL JOINT

*** Prior to 1/4" Grinding
 * 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.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	123

MODEL: Default
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JOB = 2774.1
 FILE NAME = 012-0029-74C49-007-010-ExpJl Replacement_Detail.dgn
 PLOT DATE = 11/18/2025

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 REVISIONS - MDC
 DRAWN - EFB
 CHECKED - MDC

REVISED -
 REVISED -
 REVISED -
 REVISED -

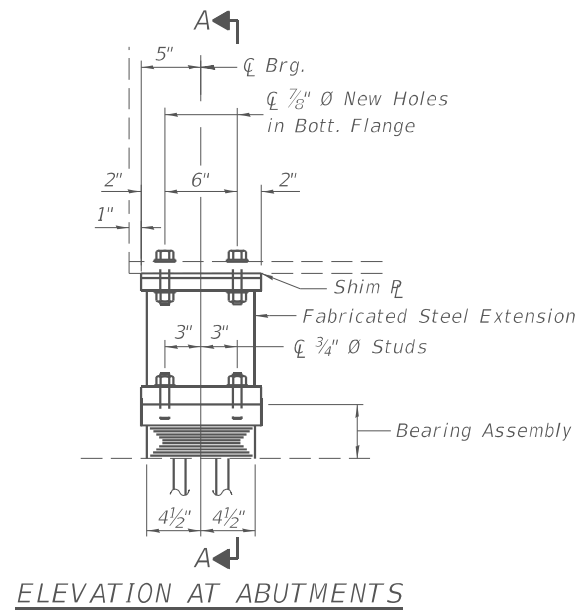
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MODIFIED PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 012-0029

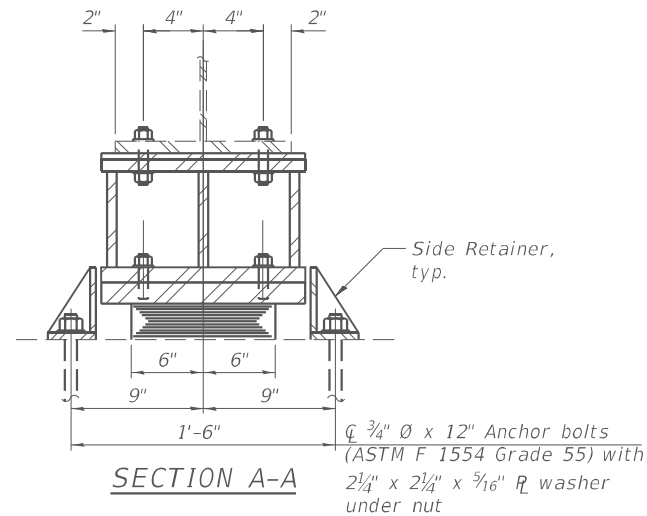
SHEET 10 OF 20 SHEETS

F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	26
CONTRACT NO. 74C49				

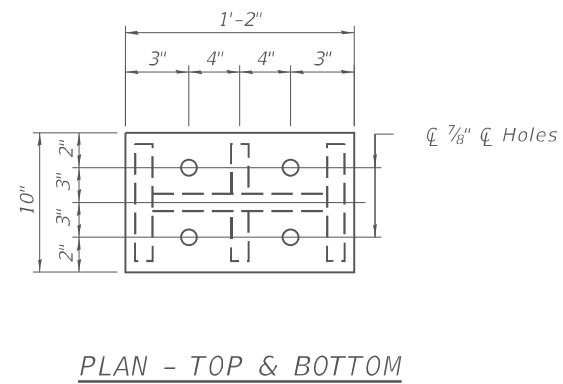
ILLINOIS FED. AID PROJECT



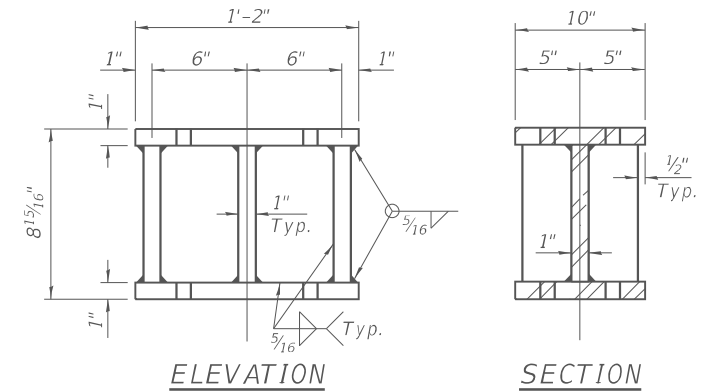
ELEVATION AT ABUTMENTS



SECTION A-A



PLAN - TOP & BOTTOM



ELEVATION

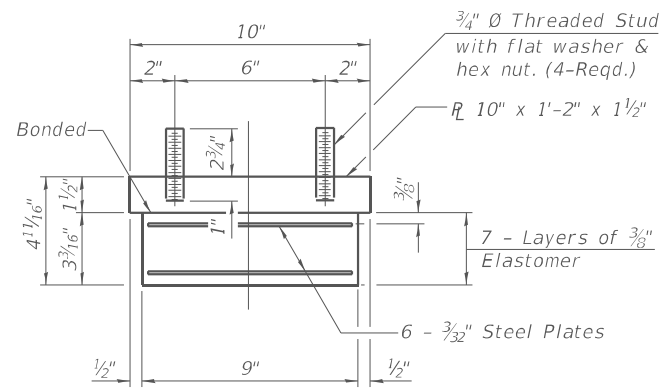
SECTION

FABRICATED STEEL EXTENSION
(10 Required)

TYPE I ELASTOMERIC EXPANSION BEARING WITH FABRICATED STEEL EXTENSION

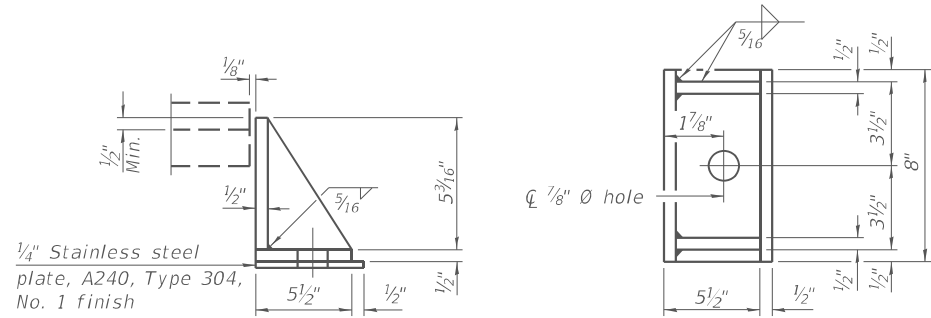
BEAM REACTIONS

R _ℓ	(k)	13.12
R _⊥	(k)	33.22
Imp.	(k)	11
R _{Total}	(k)	57.34



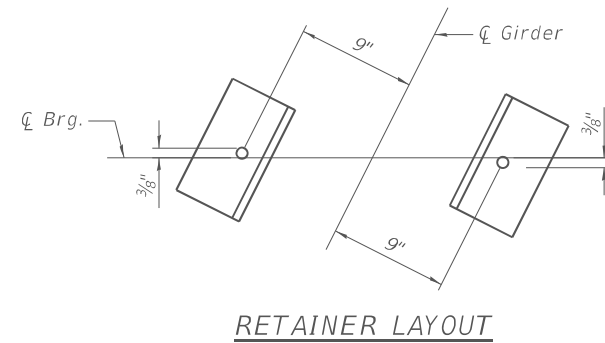
BEARING ASSEMBLY

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



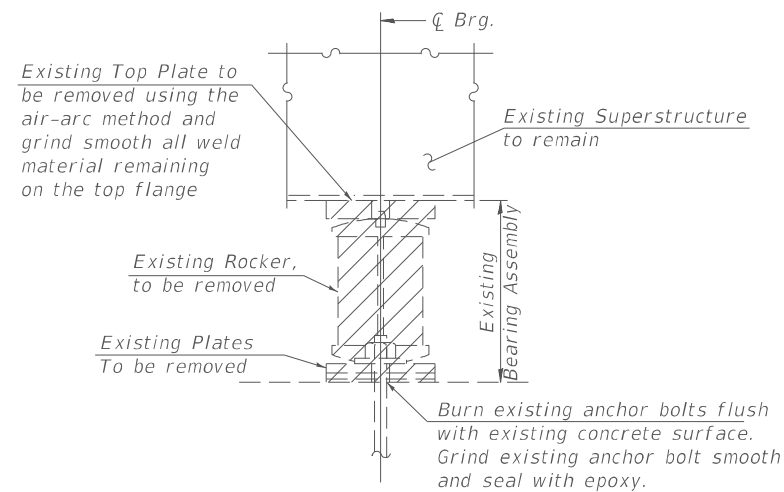
SIDE RETAINER

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



RETAINER LAYOUT

Notes:
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.



EXISTING BEARING REMOVAL

Work is included with the cost for Jack and Remove Existing Bearings

Notes:
Side retainers and leveling pad required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
The structural steel plates of the bearing assembly, side retainers, tapered plates and steel extensions shall conform to the requirements of AASHTO M270 Grade 36.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Drilling new holes in flange, steel extensions and connection bolts included with Furnishing and Erecting Structural Steel.
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
Minimum jack capacity = 27 tons.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	18
Anchor Bolts, 3/4"	Each	36
Jack and Remove Existing Bearings	Each	18
Furnishing and Erecting Structural Steel	Pound	2680

MODEL: Default
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JOB = 2774.1
FILE NAME = 012-0029-74C49-011-Bearings.dgn
PLOT DATE = 1/21/2026

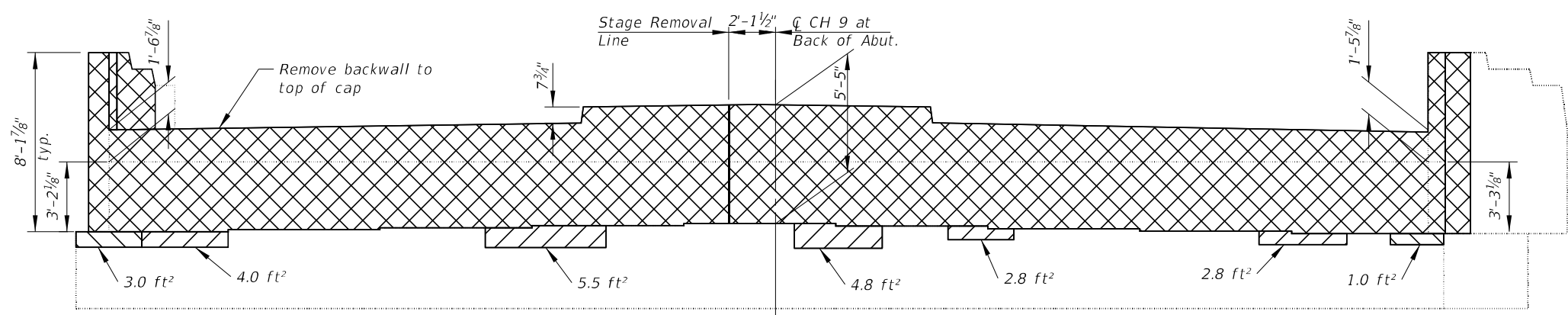
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DRAWN - EFB	REVISD -
CHECKED - MDC	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

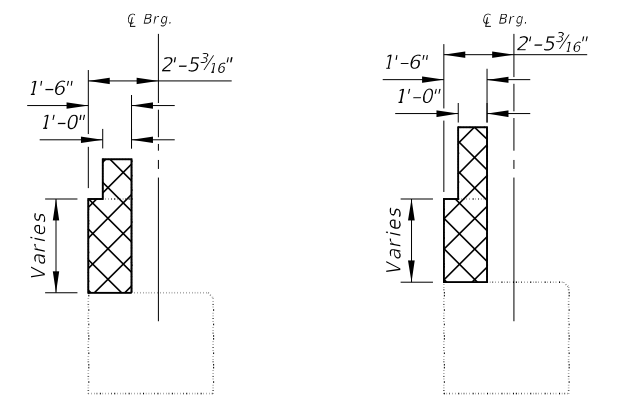
BEARING DETAILS
STRUCTURE NO. 012-0029

SHEET 11 OF 20 SHEETS

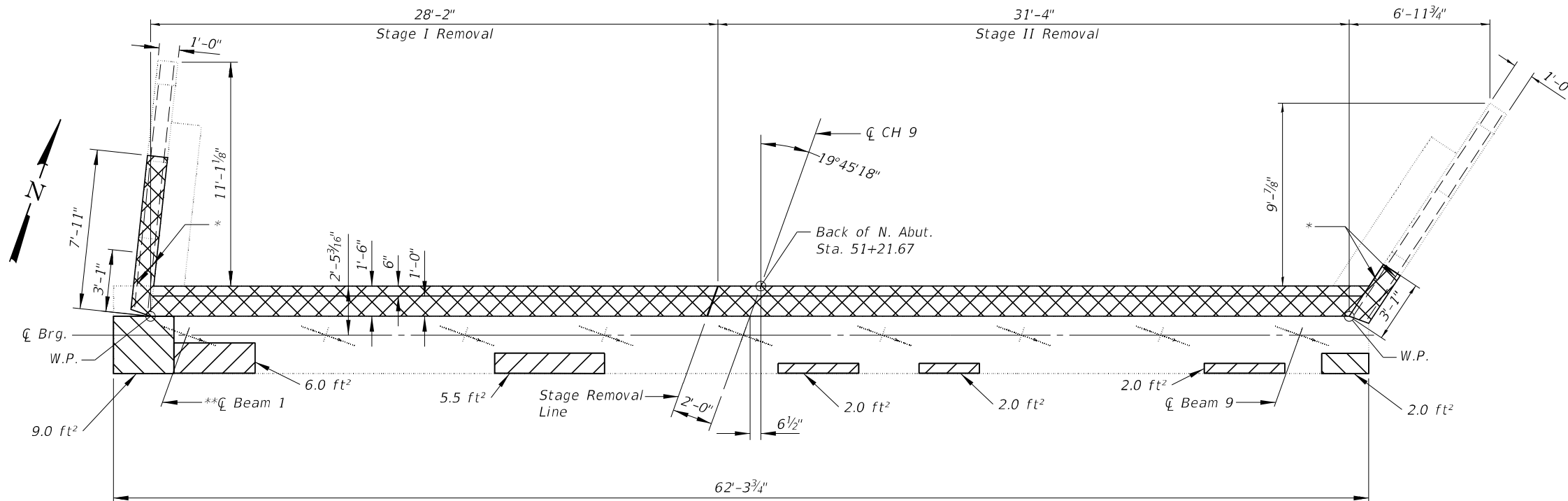
F.A.S. 689	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	27
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				



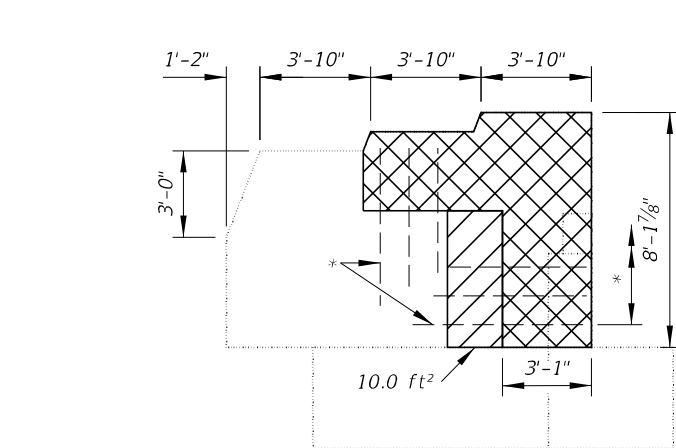
ELEVATION - NORTH ABUTMENT
(Looking North)



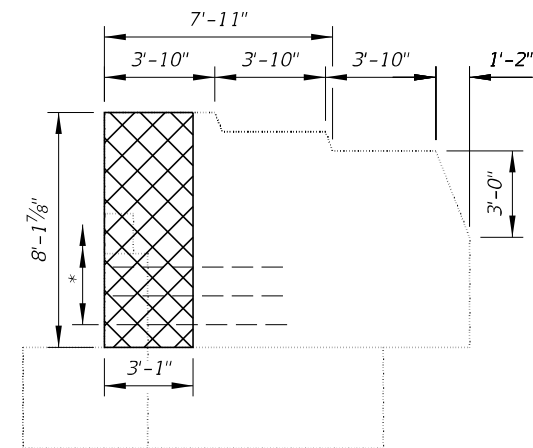
Section Thru Abutment At Roadway **Section Thru Abutment At Raised Median**



PLAN - NORTH ABUTMENT



ELEVATION - NORTHWEST WING



ELEVATION - NORTHEAST WING

* Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the contractor's expense.

** Temporary Shoring and Cribbing required to support beam during Concrete Removal and Structural Repair of Concrete Work. See Sheet 11 of 20 for beam reactions.

LEGEND

- Structural Repair of Concrete - Depth ≤ 5"
- Structural Repair of Concrete - Depth > 5"
- Concrete Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Less Than 5 Inches)	Sq. Ft.	48
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	15
Concrete Removal	Cu. Yd.	17.0
Temporary Shoring and Cribbing	Each	1

Note:
Quantities and locations are approximated.
Actual quantities and locations to be determined in the field by the Engineer.

MODEL: Default
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JOB # = 2774.1
FILE NAME = 012-0029-74C49-012-016-AbutRepair.dgn
PLOT DATE = 11/18/2025

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REVISED -

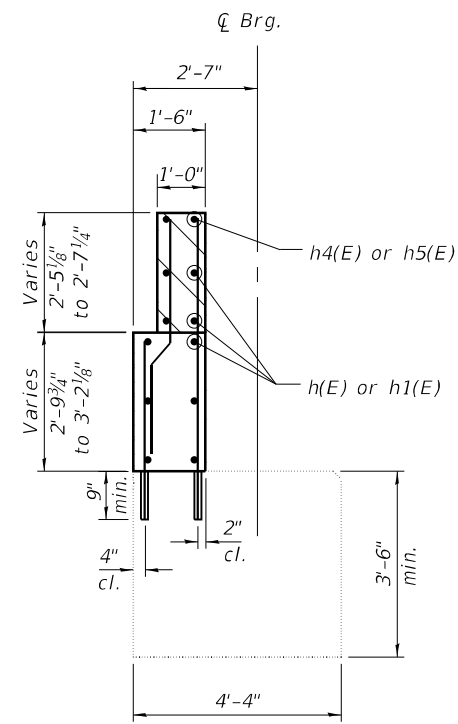
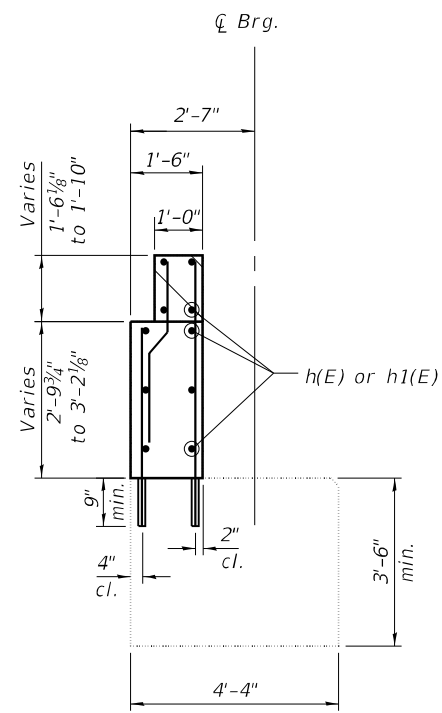
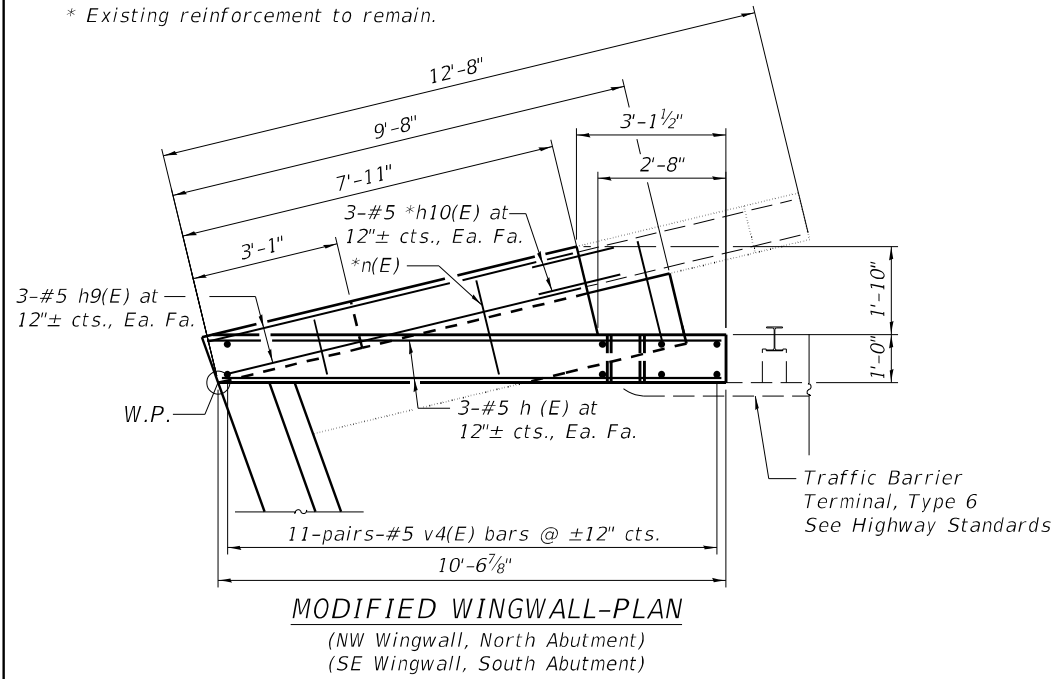
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT REPAIR DETAILS
STRUCTURE NO. 012-0029**

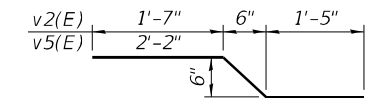
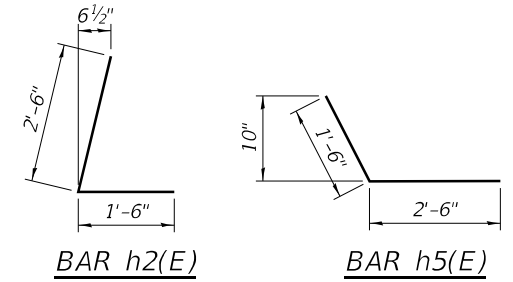
SHEET 13 OF 20 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	29
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				

* Existing reinforcement to remain.



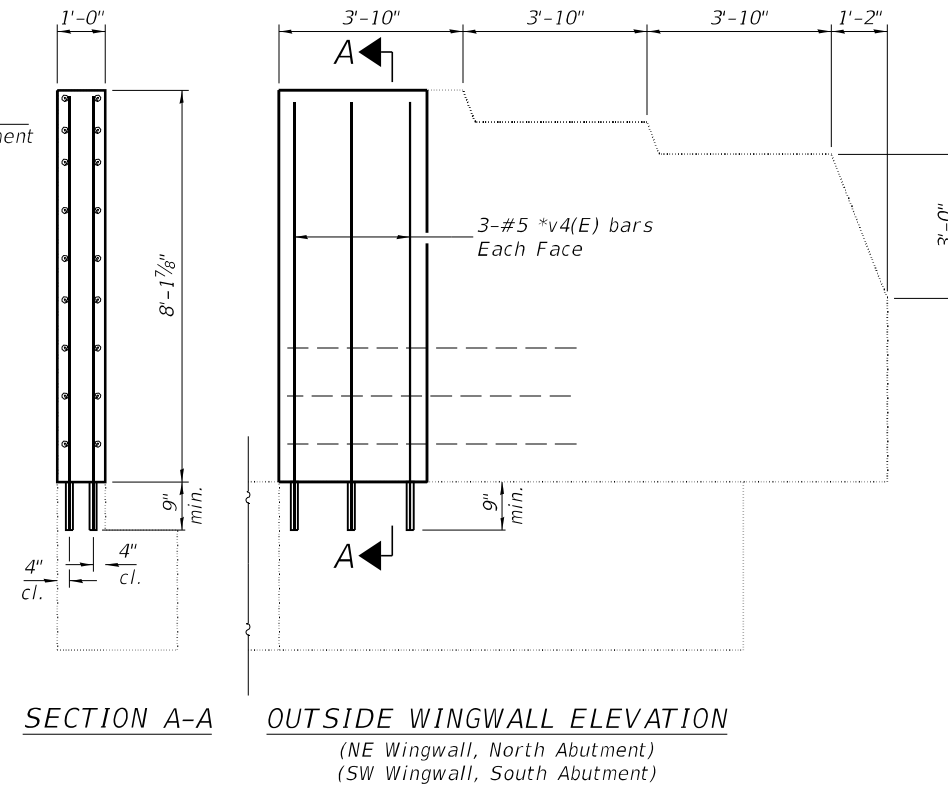
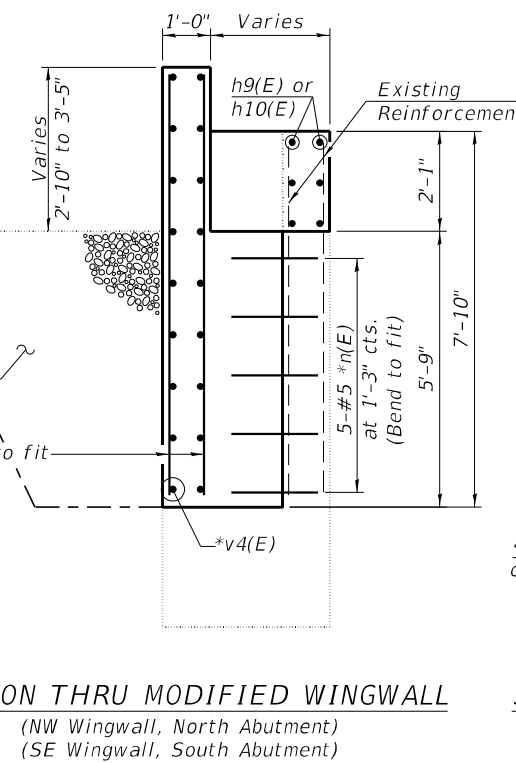
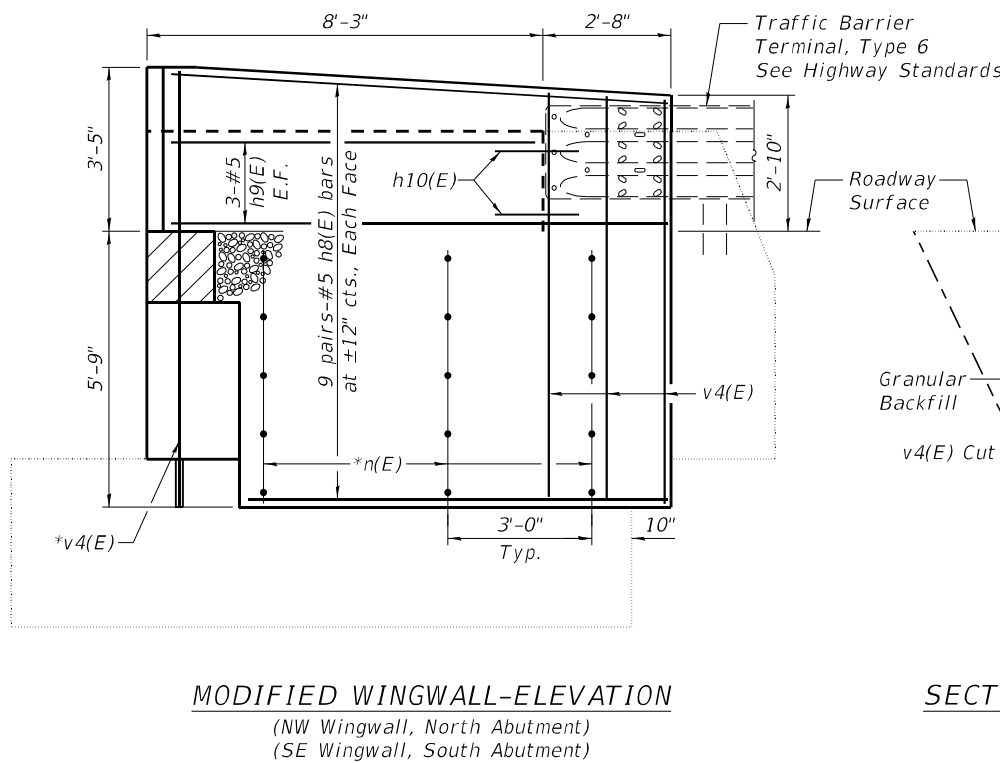
Notes:
 Hatched area to be poured separately after approach slab formwork has been removed.
 Quantity of concrete in hatched area included with Concrete Superstructure on sheet 9 of 20.
 Concrete Sealer shall be applied to new concrete in repair areas and front faces of hatch block, backwall and wing walls.
 Bars designated with an asterisk (*v4(E)) shall be epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment = 9". Cost of drilling and epoxy grouting is included with Reinforcement Bars, Epoxy Coated.



SECTION THRU ABUTMENT AT ROADWAY

SECTION THRU ABUTMENT AT RAISED MEDIAN

BAR v2(E) & v5(E)



TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#5	26'-3"	—
h1(E)	8	#6	26'-3"	—
h2(E)	20	#5	4'-0"	└
h3(E)	16	#5	32'-8"	—
h4(E)	8	#6	32'-8"	—
h5(E)	20	#5	4'-0"	└
h6(E)	4	#6	4'-10"	—
h7(E)	4	#6	11'-3"	—
h8(E)	36	#5	10'-3"	—
h9(E)	12	#5	7'-7"	—
h10(E)	12	#5	1'-9"	—
n(E)	30	#5	2'-2"	—
v(E)	88	#5	5'-4"	—
v1(E)	122	#5	3'-9"	—
v2(E)	88	#5	3'-9"	└
v3(E)	34	#5	5'-11"	—
v4(E)	56	#5	8'-9"	—
v5(E)	34	#5	4'-6"	└
Concrete Structures			Cu. Yd.	29.6
Reinforcement Bars, Epoxy Coated			Lbs.	4720
Concrete Sealer			Sq. Ft.	902

MODIFIED WINGWALL-ELEVATION (NW Wingwall, North Abutment) (SE Wingwall, South Abutment)

SECTION THRU MODIFIED WINGWALL (NW Wingwall, North Abutment) (SE Wingwall, South Abutment)

SECTION A-A OUTSIDE WINGWALL ELEVATION (NE Wingwall, North Abutment) (SW Wingwall, South Abutment)

MODEL: Default
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 PLOT DATE = 11/18/2025

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 CHECKED - MDC
 DRAWN - EFB
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REVISED -
 REVISED -
 REVISED -
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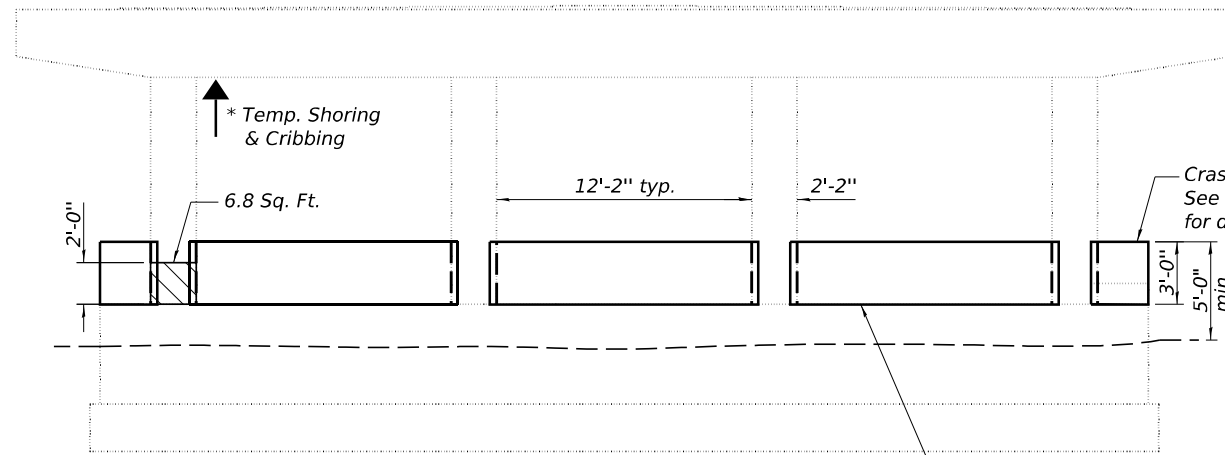
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIR DETAILS
 STRUCTURE NO. 012-0029

SHEET 16 OF 20 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	32
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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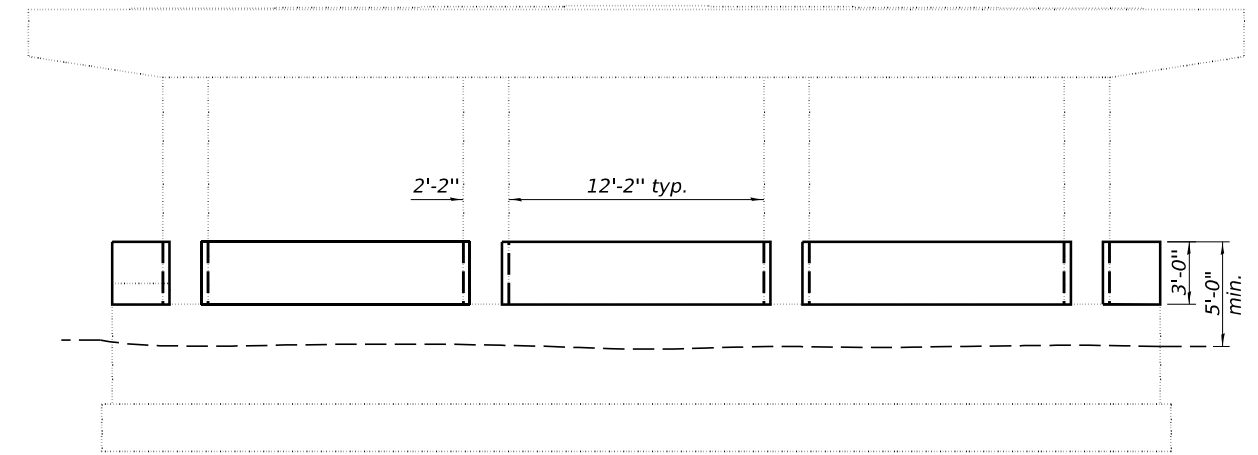


PIER 1 ELEVATION
 (North Face)

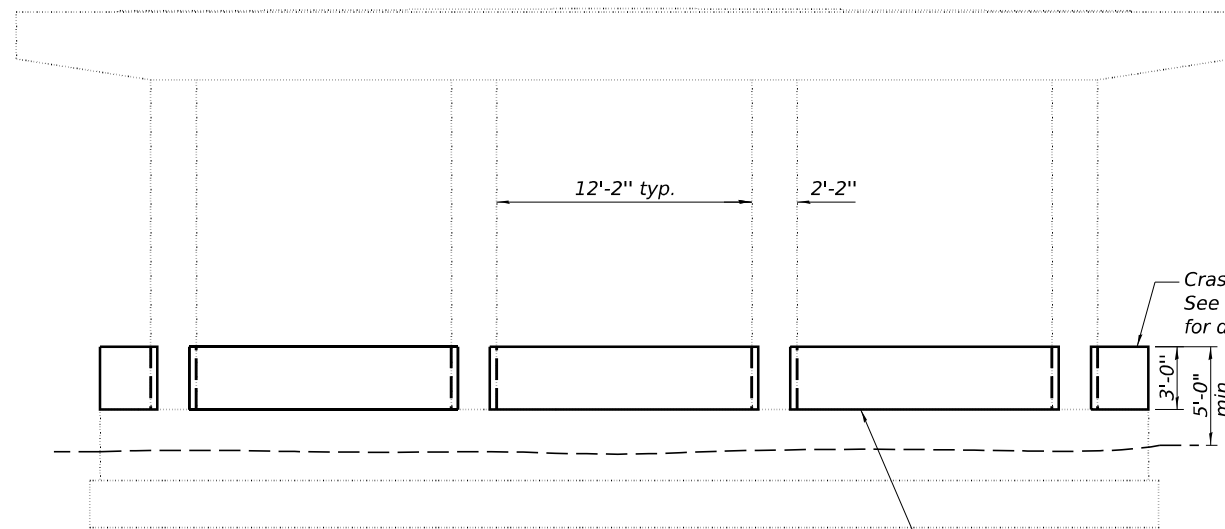
Crash wall extension,
 See Sheet 19 of 20
 for details, typ.

PIER 1 BEAM REACTIONS

R_{ϕ}	(k)	62.15
R_{\perp}	(k)	42.59
Imp.	(k)	14
R_{Total}	(k)	118.74

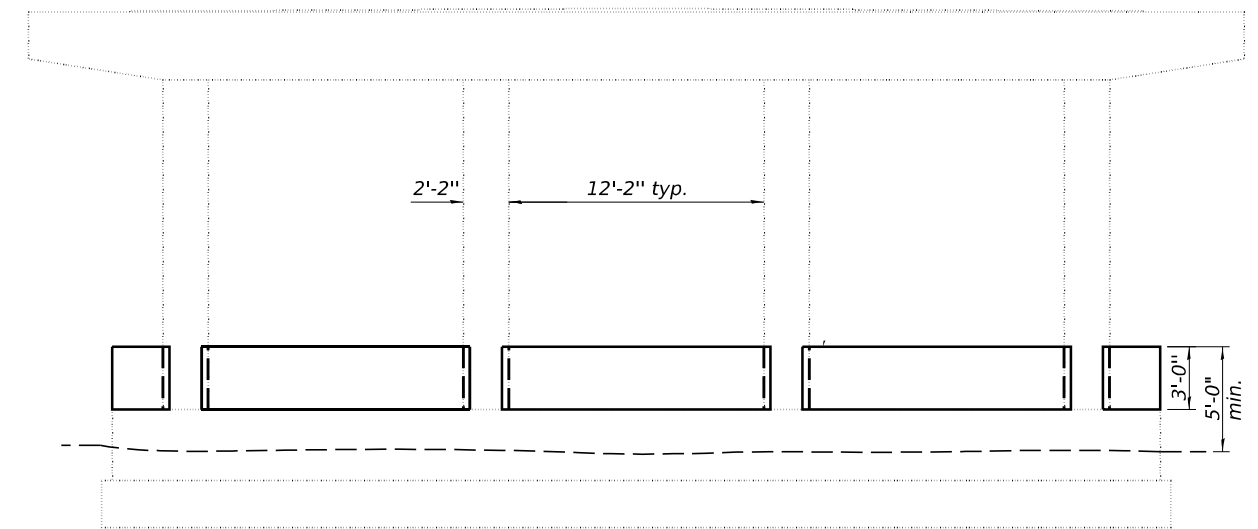


PIER 1 ELEVATION
 (South Face)



PIER 2 ELEVATION
 (North Face)

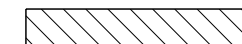
Crash wall extension,
 See Sheet 19 of 20
 for details, typ.



PIER 2 ELEVATION
 (South Face)

* Temporary Shoring and Cribbing required to support beam during Concrete Removal and Structural Repair of Concrete Work.

LEGEND



Structural Repair of Concrete - Depth > 5"



JOB #	= 2774.1
FILE NAME	= 012-0029-74C49-017-019-Pier.Repair.dgn
PLOT DATE	= 11/18/2025

DESIGNED	- AAN
CHECKED	- MDC
DRAWN	- EFB
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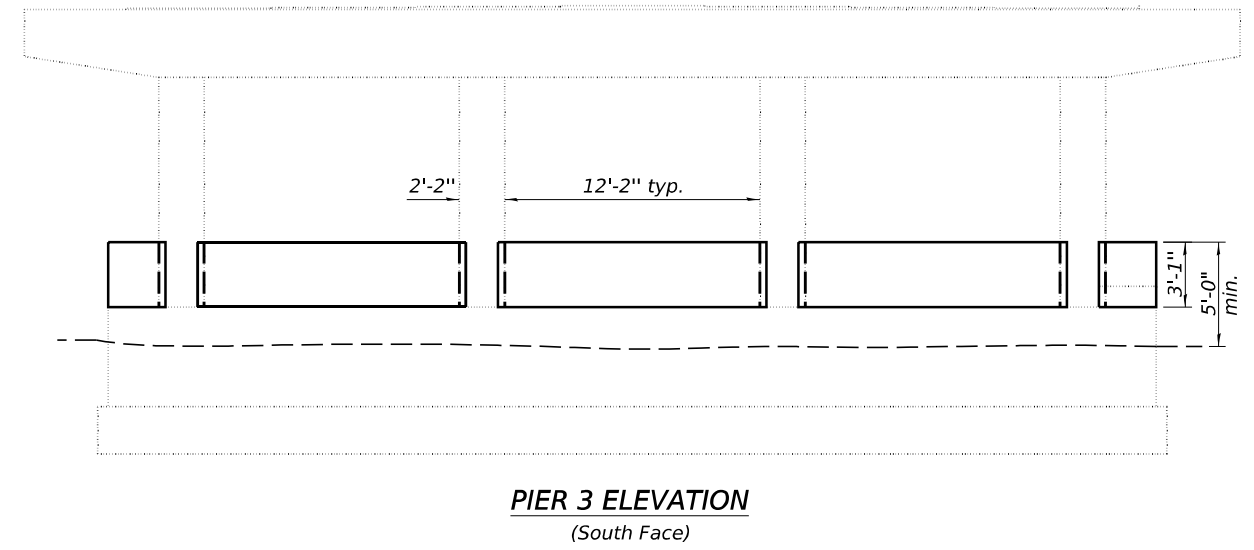
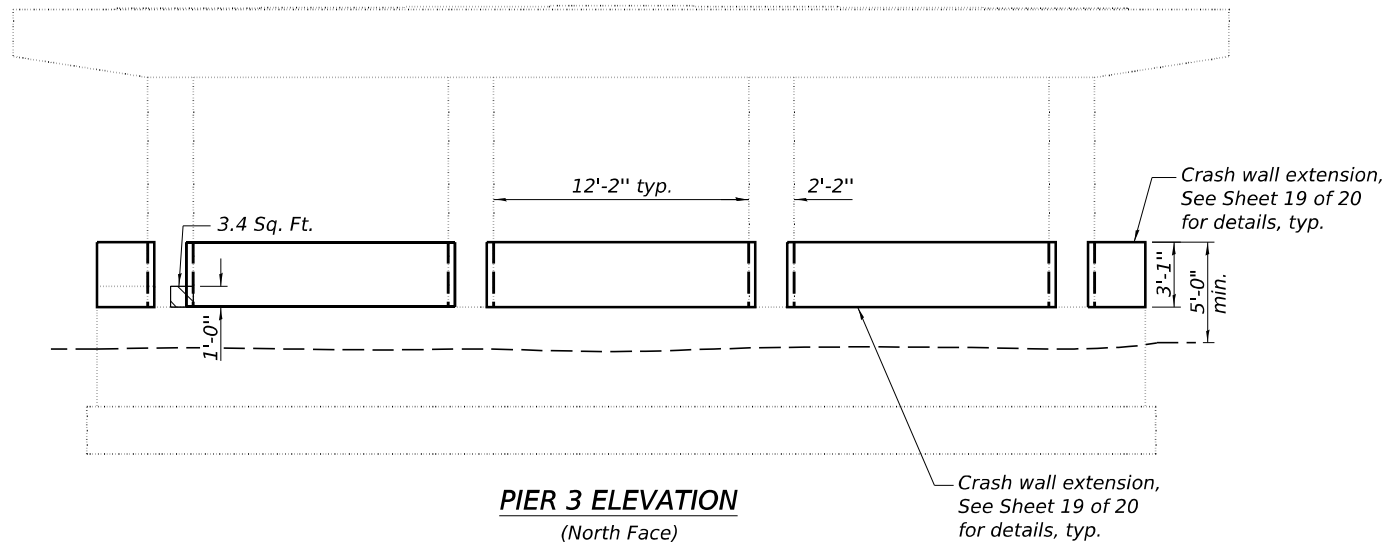
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

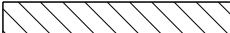
PIER REPAIR DETAILS
 STRUCTURE NO. 012-0029

SHEET 17 OF 20 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	33
CONTRACT NO. 74C49				
		ILLINOIS	FED. AID PROJECT	



LEGEND

 Structural Repair of Concrete - Depth > 5"

MODEL: Default
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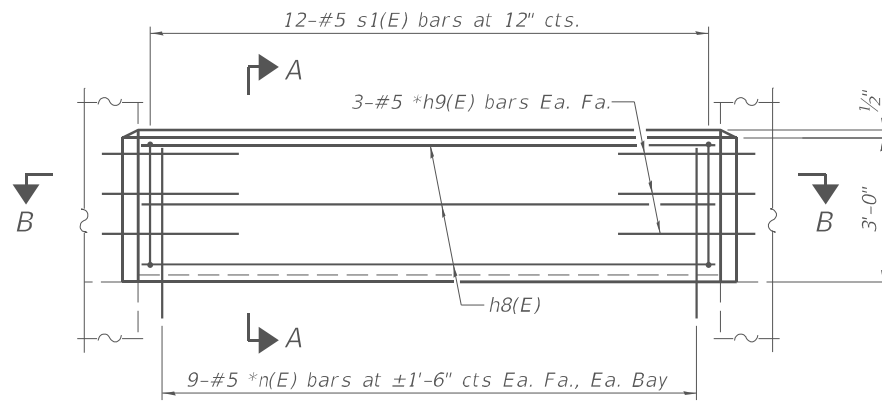
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		CHECKED -	MDC	REVISED -	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

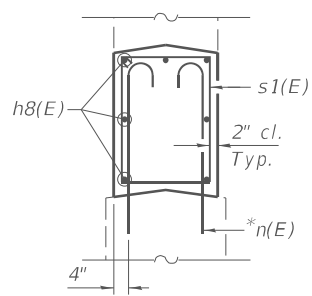
PIER REPAIR DETAILS
STRUCTURE NO. 012-0029

SHEET 18 OF 20 SHEETS

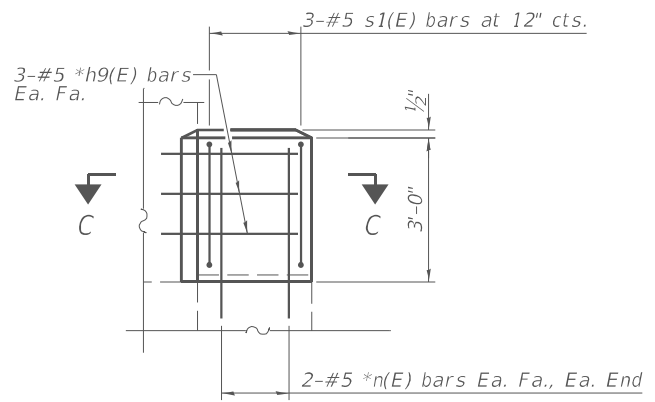
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			CONTRACT NO. 74C49	
		ILLINOIS	FED. AID PROJECT	



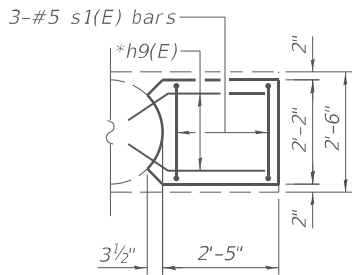
ELEVATION



SECTION A-A

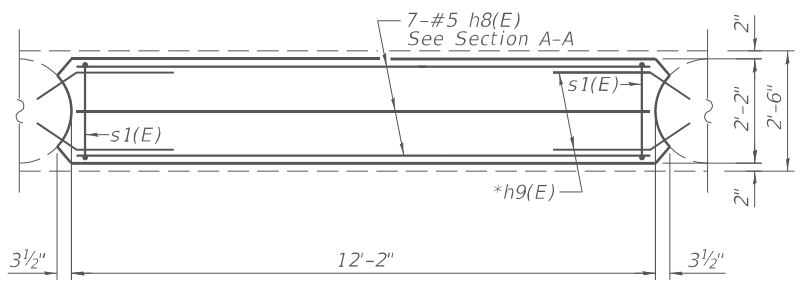


ELEVATION

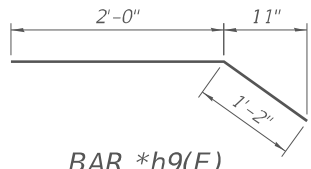


SECTION C-C

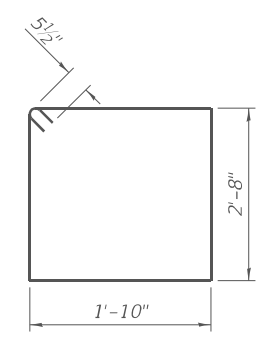
* Epoxy grout h9(E) & n(E) bars in 9" min. holes according to article 584 of the Standard Specification.



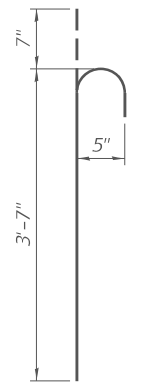
SECTION B-B



BAR *h9(E)



BAR s1(E)



BAR *n(E)

Notes:
 Bars designated with an asterisk (*n(E)) shall be epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment=9". Cost of drilling and epoxy grouting is included with Reinforcement Bars, Epoxy Coated.
 Concrete Sealer shall be applied to new concrete crashwalls and pier repair areas.

PIER 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h8(E)	21	#5	11'-11"	—
h9(E)	48	#5	3'-2"	—
*n(E)	62	#5	4'-2"	⌋
s1(E)	42	#5	9'-11"	□
Concrete Structures			Cu. Yd.	10.2
Reinforcement Bars, Epoxy Coated			Pound	1130
Structural Repair of Concrete (Depth Greater Than 5 Inches)			Sq. Ft.	7
Concrete Sealer			Sq. Ft.	382
Temporary Shoring and Cribbing			Each	1

PIER 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h8(E)	21	#5	11'-11"	—
h9(E)	48	#5	3'-2"	—
*n(E)	62	#5	4'-2"	⌋
s1(E)	42	#5	9'-11"	□
Concrete Structures			Cu. Yd.	10.2
Reinforcement Bars, Epoxy Coated			Pound	1130
Concrete Sealer			Sq. Ft.	375

PIER 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h8(E)	21	#5	11'-11"	—
h9(E)	48	#5	3'-2"	—
*n(E)	62	#5	4'-2"	⌋
s1(E)	42	#5	9'-11"	□
Concrete Structures			Cu. Yd.	10.4
Reinforcement Bars, Epoxy Coated			Pound	1130
Structural Repair of Concrete (Depth Greater Than 5 Inches)			Sq. Ft.	4
Concrete Sealer			Sq. Ft.	386

MODEL: Default
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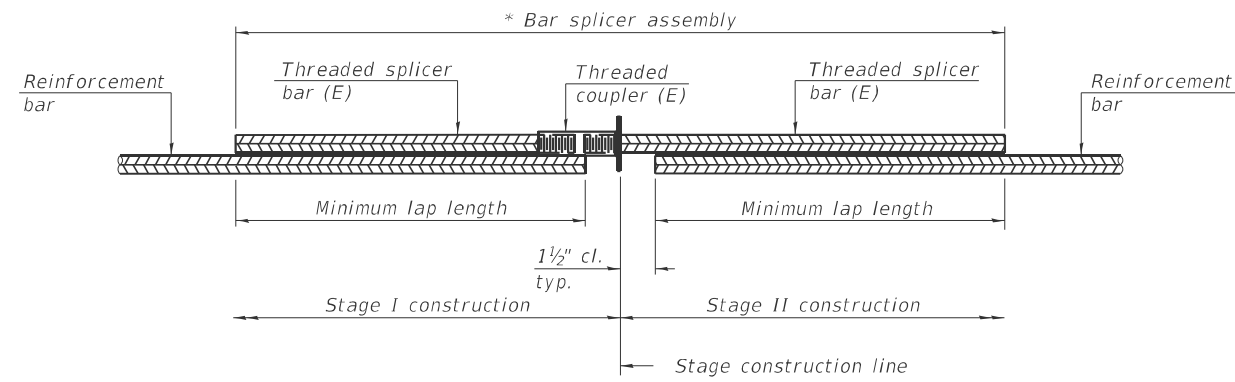
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PLOT DATE = 1/21/2026	DRAWN - EFB	REVISED -
	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIR DETAILS
STRUCTURE NO. 012-0029

SHEET 19 OF 20 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	35
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				

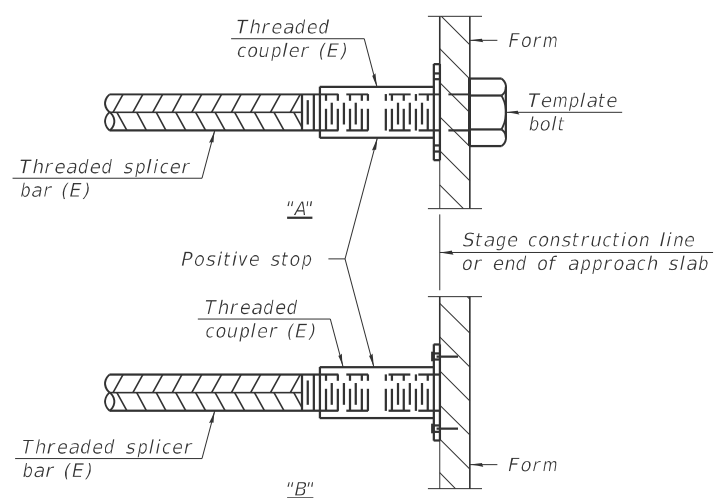


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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 Median	#5	16	3'-10"
Hatch Block	#6	12	4'-5"
Backwall	#5	16	3'-10"

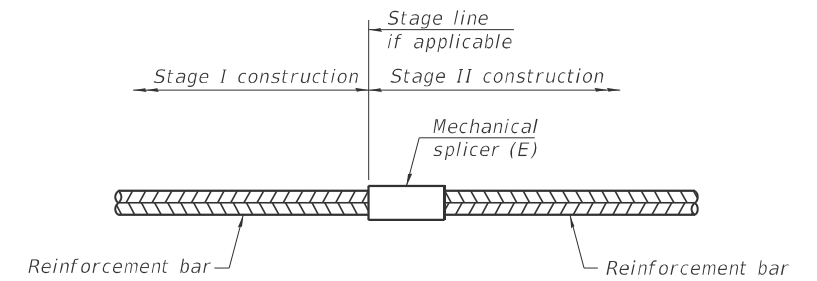


INSTALLATION AND SETTING METHODS

"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
Appr. Slab Middle	#8	56
Appr. Slab Middle	#6	52
Appr. Slab Edge	#8	48

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.

MODEL: Default
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BSD-1

1-1-2020

CEC Cummins
 Engineering
 Corporation
 ENGINEERS & SURVEYORS

JOB # = 2774.1	DESIGNED - AAN	REVISED -
FILE NAME = 012-0029-74C49-020-Splicer.dgn	CHECKED - MDC	REVISED -
PLOT DATE = 1/21/2026	DRAWN - EFB	REVISED -
	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
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BAR SPLICER ASSEMBLY
 STRUCTURE NO. 012-0029

SHEET 20 OF 20 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 9	D7 BRIDGE REPAIRS 2025-1	CLARK	36	36
CONTRACT NO. 74C49				
ILLINOIS FED. AID PROJECT				