

MODEL: SQC-1 [Sheet]
FILE NAME: J:\2020\6565\WB WO 53\0162T46\CADD Data\Sheets\0162T46-ah-SQC.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE
				BRIDGE
				0059
				016-2611
28000400	PERIMETER EROSION BARRIER	FOOT	225	225
28000500	INLET AND PIPE PROTECTION	EACH	8	8
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	348	348
40600370	LONGITUDINAL JOINT SEALANT	FOOT	335	335
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	237	237
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	75	75
45000110	RELIEF JOINT 2"	FOOT	102	102
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1	1
50102400	CONCRETE REMOVAL	CU YD	10.1	10.1
50157300	PROTECTIVE SHIELD	SQ YD	327	327
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11.1	11.1
50300300	PROTECTIVE COAT	SQ YD	932	932
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1660	1660
52000110	PREFORMED JOINT STRIP SEAL	FOOT	106	106

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE
				BRIDGE
				0059
				016-2611
53016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	24	24
53101002	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	770	770
53101410	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	770	770
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	15	15
58700300	CONCRETE SEALER	SQ FT	1036	1036
59000200	EPOXY CRACK INJECTION	FOOT	156	156
67100100	MOBILIZATION	L SUM	1	1
70102621	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	EACH	2	2
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1376	1376
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	20	20
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	6
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	479	479
* X0325748	ACRYLIC COATING	SQ YD	15	15

* SPECIALITY ITEM



USER NAME = galsailani	DESIGNED - CT	REVISED - ####
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PLOT SCALE = \$SCALE\$	CHECKED - TPP	REVISED - ####
PLOT DATE = 3/17/2026	DATE - 12/13/2024	REVISED - ####

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

131 ST. OVER METRA RAILROAD
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1593	FAU 1593 22 BJ	COOK	34	3
CONTRACT NO. 62T46				
ILLINOIS FED. AID PROJECT				

REVIS
1
REVISED SHEET 5/27/2026

MODEL: SQC-2 [Sheet]
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE
				BRIDGE
				0059
				016-2611
X0325749	FIBER WRAP	SQ FT	111	111
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	102	102
X2010516	SELECTIVE CLEARING	UNIT	7	7
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	462	462
X5030539	FLOOR DRAINS TO BE CLEANED	EACH	8	8
X5060700	CLEANING AND PAINTING BEARINGS	EACH	12	12
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	3	3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4
* X8900104	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	9	9
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	1	1
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	715	715
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	10	10
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

1

* SPECIALITY ITEM



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

131 ST. OVER METRA RAILROAD
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1593	FAU 1593 22 BJ	COOK	34	4
CONTRACT NO. 62T46				
ILLINOIS FED. AID PROJECT				

1 REVISED SHEET 5/27/2026

GENERAL NOTES

1.

Reinforcement bars designated (E) shall be epoxy coated.
2.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3.

Bars indicated thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bar per line.
4.

All exposed concrete edges shall have a ¾"x45° chamfer, except where shown otherwise.
5.

Existing reinforcement extended into the removal area shall be cleaned, straightened and incorporated into the new construction cost is included with concrete removal. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system at the Contractor's expense.
6.

For overlay on Approach slabs, see Roadway plans.
7.

Protective Coat shall be applied to the top and inside face of parapets, reconstructed transverse Expansion Joints and to the surface of the new Latex Concrete overlay.
8.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specification when the deck is poured at an ambient temperature other than 50°F.
9.

The Contractor shall exercise extreme caution during concrete removal to avoid damaging P.P.C. beams and diaphragms to remain. Any damage to the existing P.P.C. beams and/or diaphragms to remain caused by the contractor in the performance of his/her workshall be repaired by the contractor, to the satisfaction of the engineer at no cost to the Department.
10.

Concrete Sealer shall be applied to the designated areas of the abutments.
11.

Any adjustment done to the Protective Shield System must not change the load carrying capacity (or containment specifications) as indicated in the Std. Specs. Cost of adjusting shielding is included in the cost of Protective Shield.
12.

Prior to the application of the Concrete Sealer, the Contractor shall clean all existing debris from the abutment seats. The method of debris removal shall not damage the existing concrete and shall be approved by the Engineer. The debris shall be disposed of according to Art 202.03 of the Std. Specs. The cost of cleaning is included in the cost of Concrete Sealer.



INDEX OF SHEETS

SA-01	General Plan & Elevation
SA-02	General Notes, Index of Sheets & TBOM
SA-03	Deck Repair Plan
SA-04	E. and W. Abut. Joint Removal & Replacement (Sheet 1 of 2)
SA-05	E. and W. Abut. Joint Removal & Replacement (Sheet 2 of 2)
SA-06	Preformed Joint Strip Seal
SA-07	Framing Plan
SA-08	PPC I-Beam Repairs
SA-09	East Abutment Repairs
SA-10	West Abutment Repairs
SA-11	Pier 1 Repairs
SA-12	Pier 2 Repairs
SA-13	Existing Plans (Sheet 1 of 3)
SA-14	Existing Plans (Sheet 2 of 3)
SA-15	Existing Plans (Sheet 3 of 3)

SCOPE OF WORK

1. Provide Protective Shield within limits indicated on the plans.
2. Scarify ¾" from the bridge deck slab.
3. Perform Deck Slab Repairs.
4. Remove and Reconstruct Expansion joints at East and West abutments and install new Preformed Joint Strip Seals.
5. Apply 2¾" Bridge Deck Latex Concrete Overlay on Bridge Deck, and Hot-Mix Asphalt Surface Course, Mix-D, IL-9.5, N70 on the Approach Pavement (See roadway plans).
6. Perform ¼" Diamond Grinding to top of bridge deck and abutment hatched block.
7. Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.
8. Apply Protective Coat to the top and inside faces of parapets, reconstructed transverse Expansion Joints and to the surface of Latex Concrete Overlay.
9. Perform Structural Concrete Repairs to abutments and piers as noted on plans.
10. Clean Floor Drains.
11. Paint steel portion of bearings at abutments.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Relief Joint 2"	Foot	102	-	102
Concrete Removal	Cu Yd	10.1	-	10.1
Protective Shield	Sq Yd	327	-	327
Concrete Superstructure	Cu Yd	11.1	-	11.1
Protective Coat	Sq Yd	932	-	932
Reinforcement Bars, Epoxy Coated	Pound	1,660	-	1,660
Preformed Joint Strip Seal	Foot	106	-	106
Deck Slab Repair (Full Depth, Type II)	Sq Yd	24.0	-	24.0
Bridge Deck Scarification ¾"	Sq Yd	770	-	770
Bridge Deck Latex Concrete Overlay, 2¾"	Sq Yd	770	-	770
Structural Repair of Concrete (Depth Greater than 5")	Sq Ft	-	15	15
Concrete Sealer	Sq Ft	-	1,036	1,036
Epoxy Crack Injection	Foot	-	156	156
Acrylic Coating	Sq Yd	15	-	15
Fiber Wrap	Sq Ft	111	-	111
Clean & Reseal Relief Joint	Foot	102	-	102
Bridge Deck Grooving (Longitudinal)	Sq Yd	462	-	462
Floor Drains to be Cleaned	Each	8	-	8
Cleaning and Painting Bearings	Each	12	-	12
Approach Slab Repair (Partial Depth)	Sq Yd	1	-	1
Diamond Grinding (Bridge Section)	Sq Yd	715	-	715
Precast Prestressed Concrete I-Beam Repair	Sq Ft	10	-	10

RAILROAD COORDINATION

1. The contractor shall prepare a separate agreement with the Railroad to build temporary grade crossing(s) as necessary to perform the work at the underside of the bridge per article 107.10 of the standard specifications.
2. The contractor shall procure all permits, permissions, and licenses, and pay all charges and fees, prior to entering the Railroad right of way. During their work at the underside of the bridge, The Contractor shall also confer with the Railroad Engineer relative to their specific requirements for clearances, operation, and general safety regulation.
3. Per Article 107.10, The cost of temporary at-grade crossings shall be included in the contract unit prices bid for the various items of work involved, and no additional compensation will be allowed.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

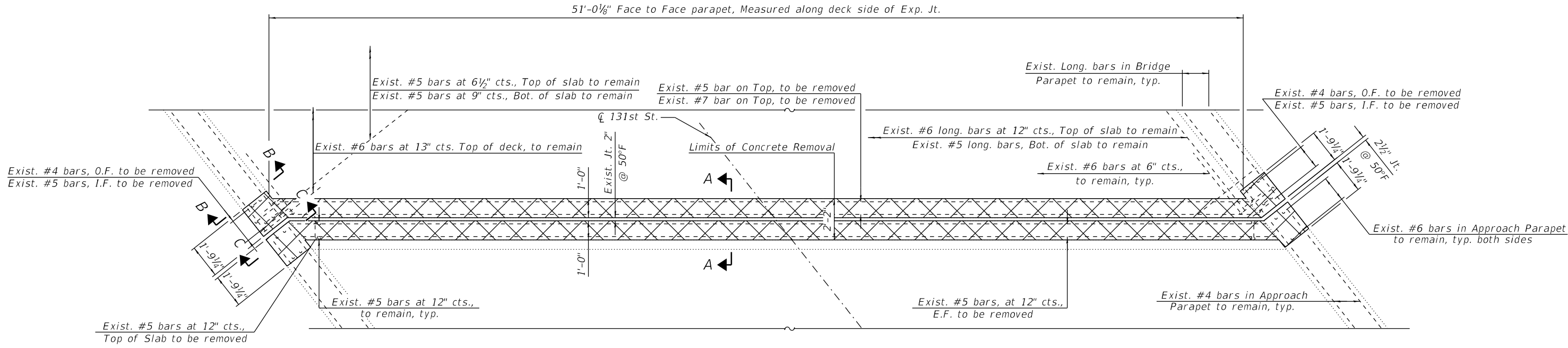
GENERAL NOTES, INDEX OF SHEETS & TBOM
STRUCTURE NO. 016-2611

SHEET SA-02 OF SA-15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1593	1593 22 BJ	COOK	34	15
CONTRACT NO. 62T46				
ILLINOIS		FED. AID PROJECT		

1 REVISED SHEET 5/27/2026

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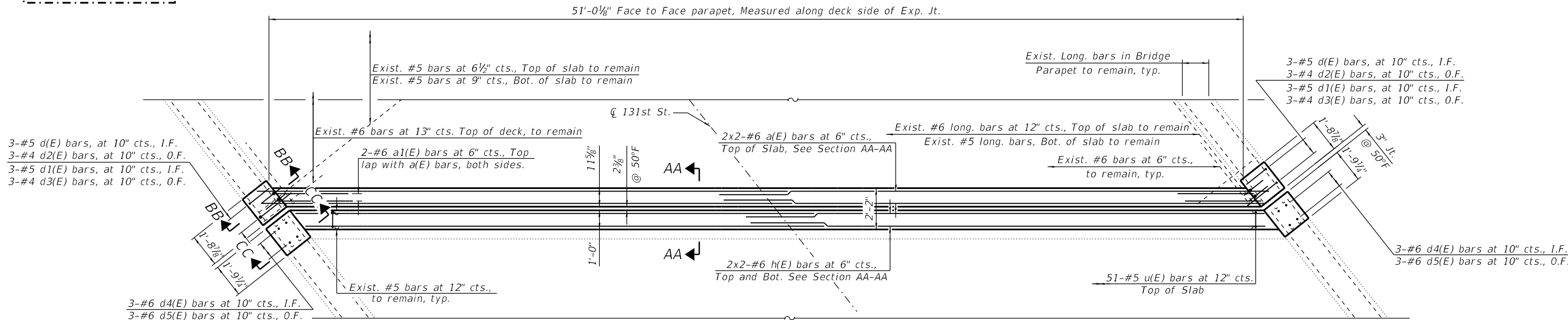
NOTES:

- Horizontal bars in deck parapets and approach parapets shall be cleaned, straightened, and reused in new construction.
- For Sections A-A, B-B, C-C, AA-AA, BB-BB, and CC-CC, additional notes, bar diagrams and Bill of Material see Sheet SA-05.

MINIMUM BAR LAP
#6 Bar = 3'-6"

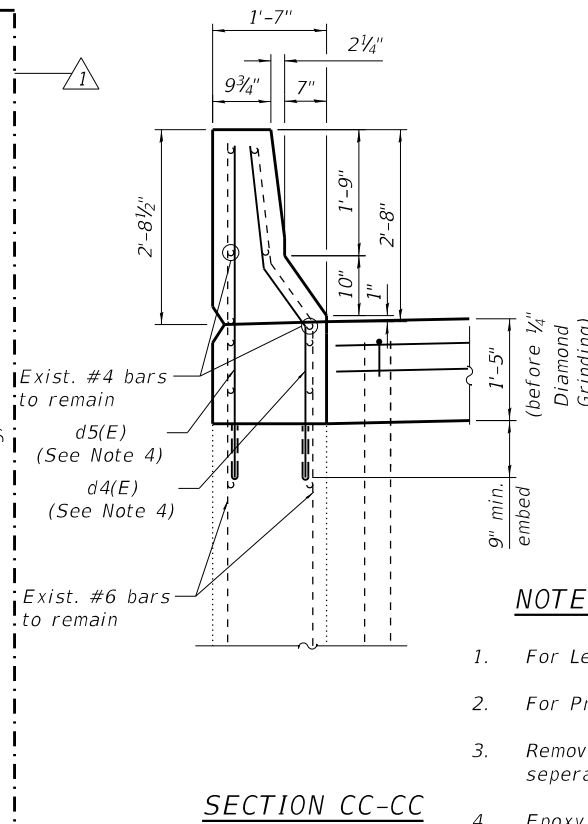
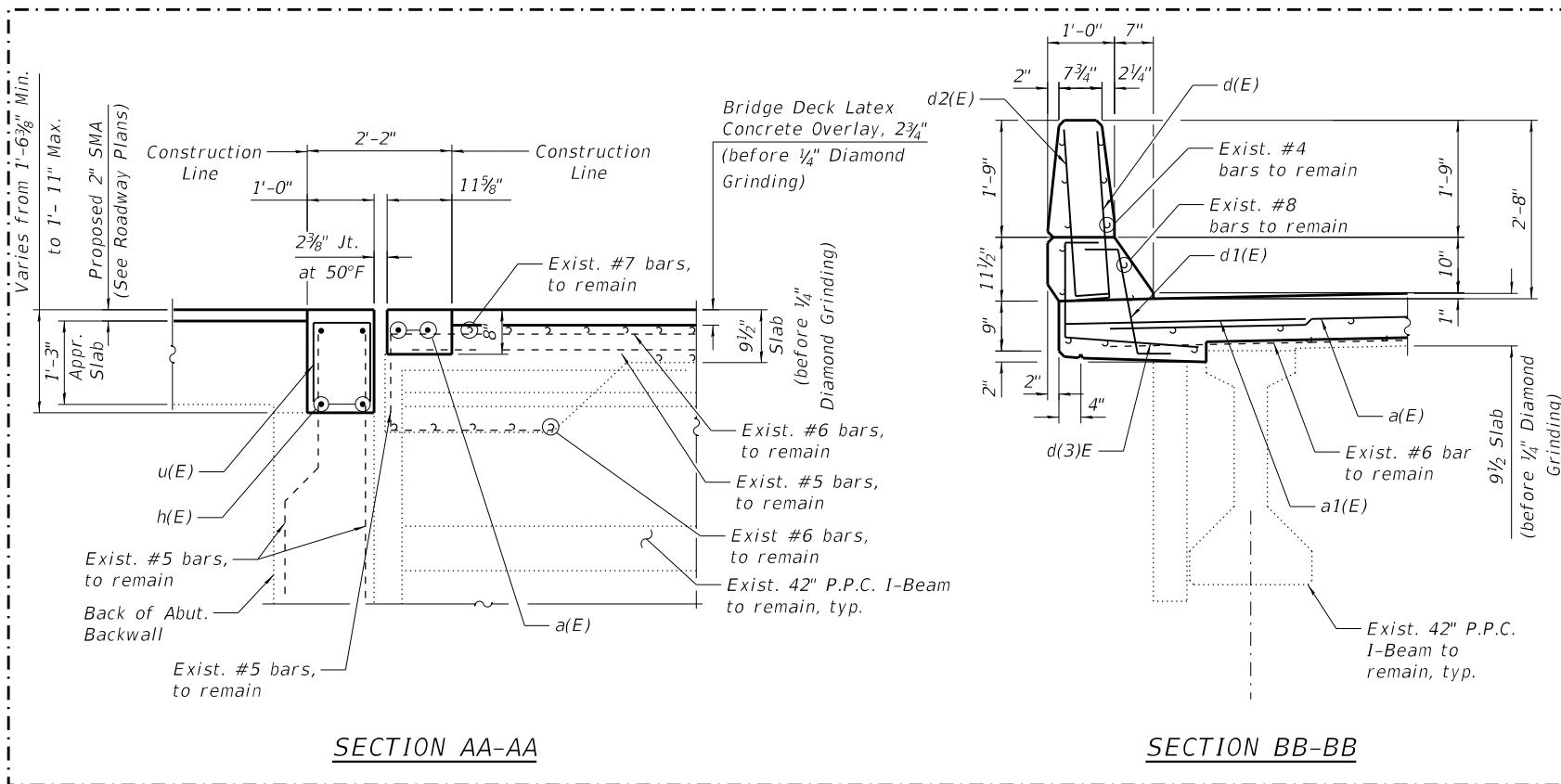
LEGEND

-  Concrete Removal
E.F. Each Face
I.F. Inside Face
O.F. Outside Face



EAST ABUTMENT JOINT CONSTRUCTION PLAN
(West Abutment Joint is Symmetrical by Rotation)

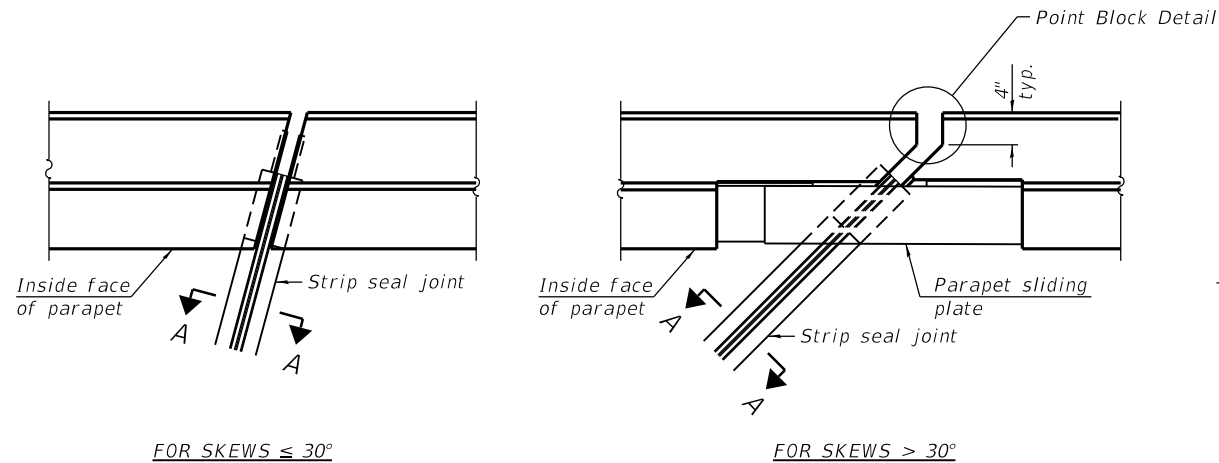
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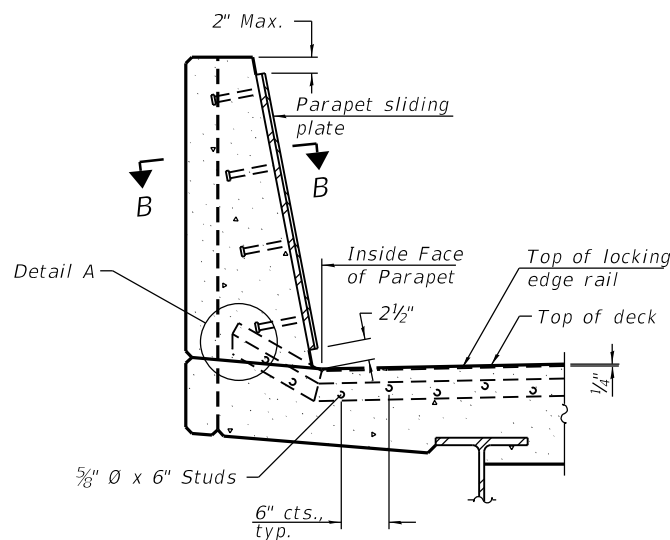
- NOTES:

 1. For Legend, see Sheet SA-04.
 2. For Preformed Joint Strip Seal Details, See Sheet SA-06.
 3. Removal and disposal of the existing expansion joints will not be paid for separately but will be included in the cost of Concrete Removal.
 4. Epoxy grout d4(E) and d5(E) bars according to Article 584 of the Standard Specifications. Drill to miss existing reinforcement. Cost included with Concrete Superstructure.

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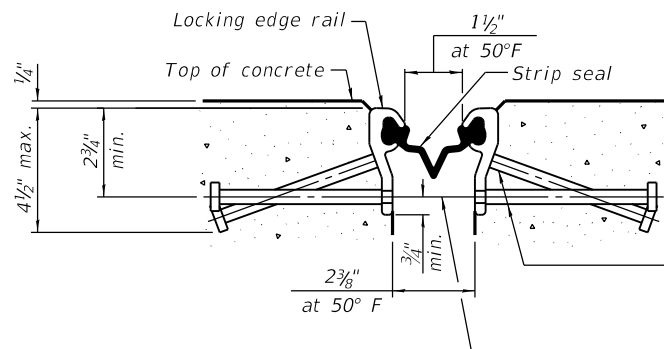


PLAN AT PARAPET



SECTION AT PARAPET

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



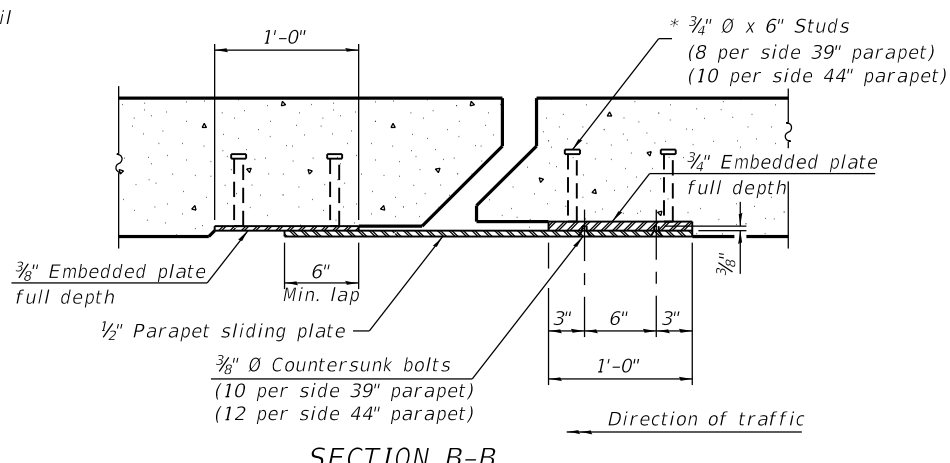
SHOWING ROLLED RAIL JOINT

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

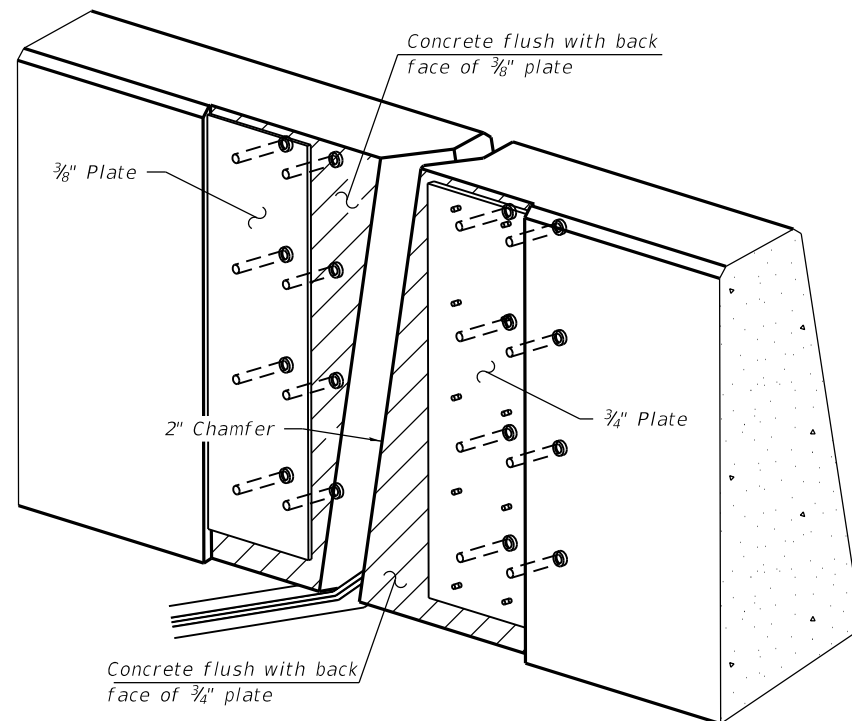
3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

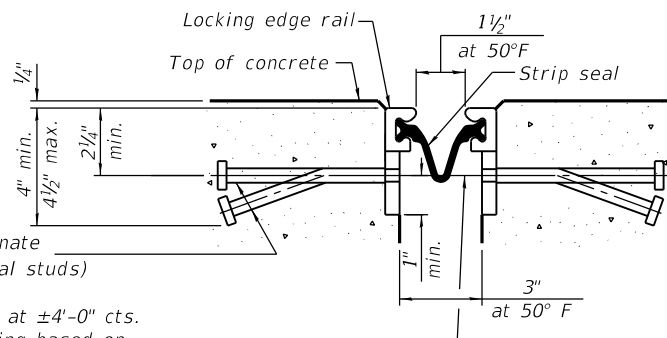


SECTION B-B

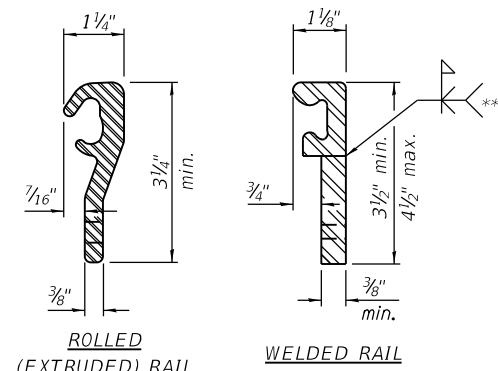


TRIMETRIC VIEW

(Showing embedded plates only)

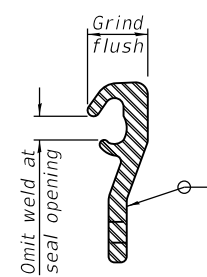


SHOWING WELDED RAIL JOINT



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	106

REVISED SHEET 5/27/2026

EJ-SS-S

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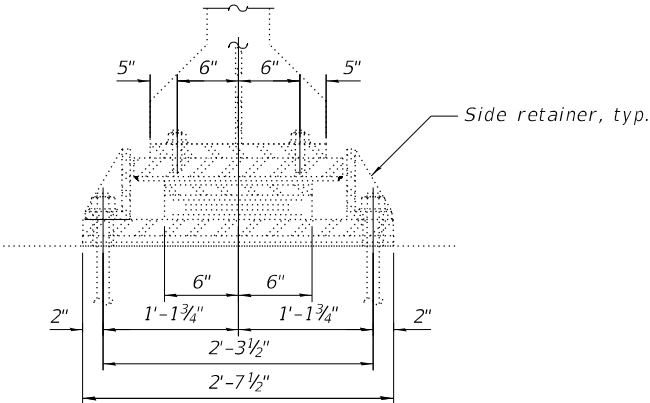
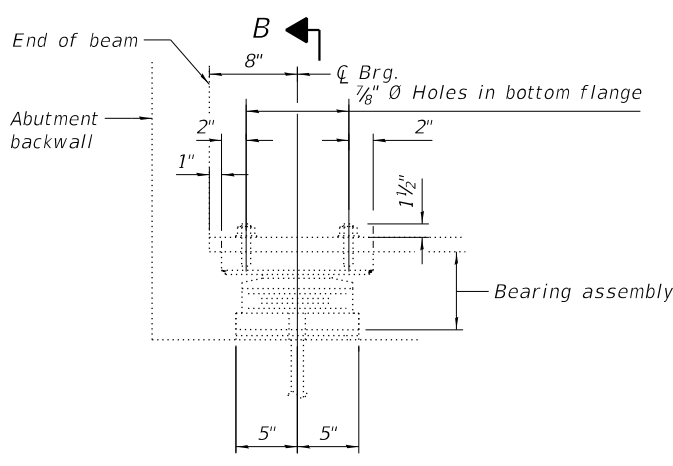
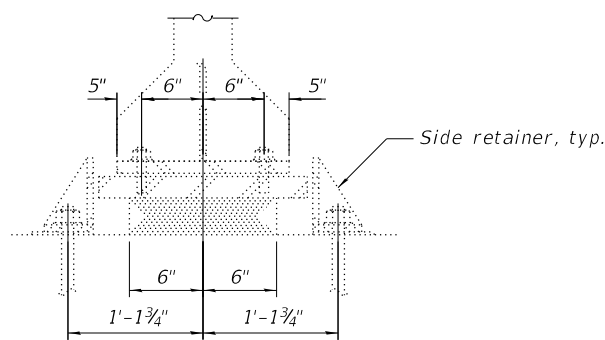
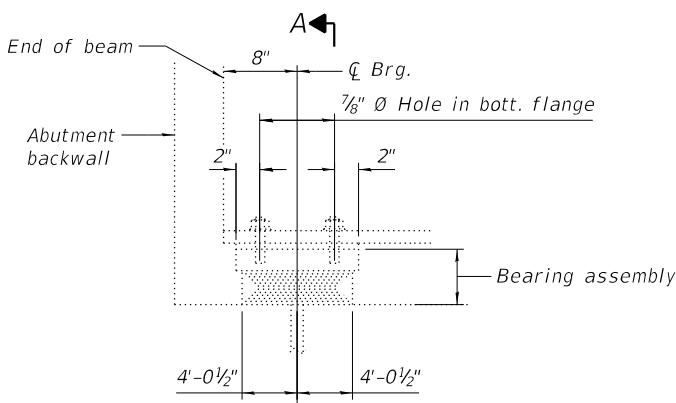
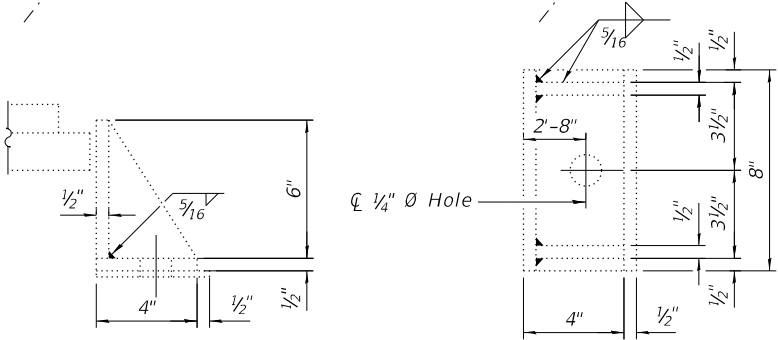
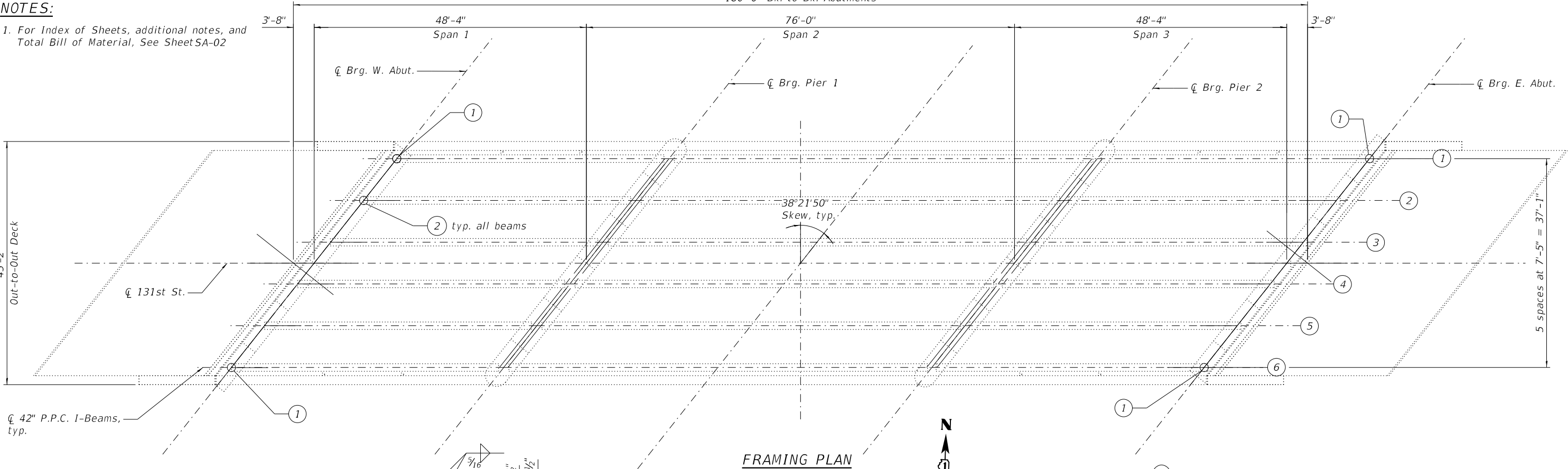
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PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-2611

SHEET SA-06 OF SA-15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1593	1593 22 BJ	COOK	34	19
CONTRACT NO. 62T46				
ILLINOIS FED. AID PROJECT				

NOTES:
1. For Index of Sheets, additional notes, and Total Bill of Material, See Sheet SA-02



BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cleaning and Painting Bearings	Each	12.0

DETAIL B
(Existing Type I Elastomeric Bearing at East Abutment to be Cleaned and Painted)

DETAIL C
(Existing Type II Elastomeric Bearing at West Abutment to be Cleaned and Painted)



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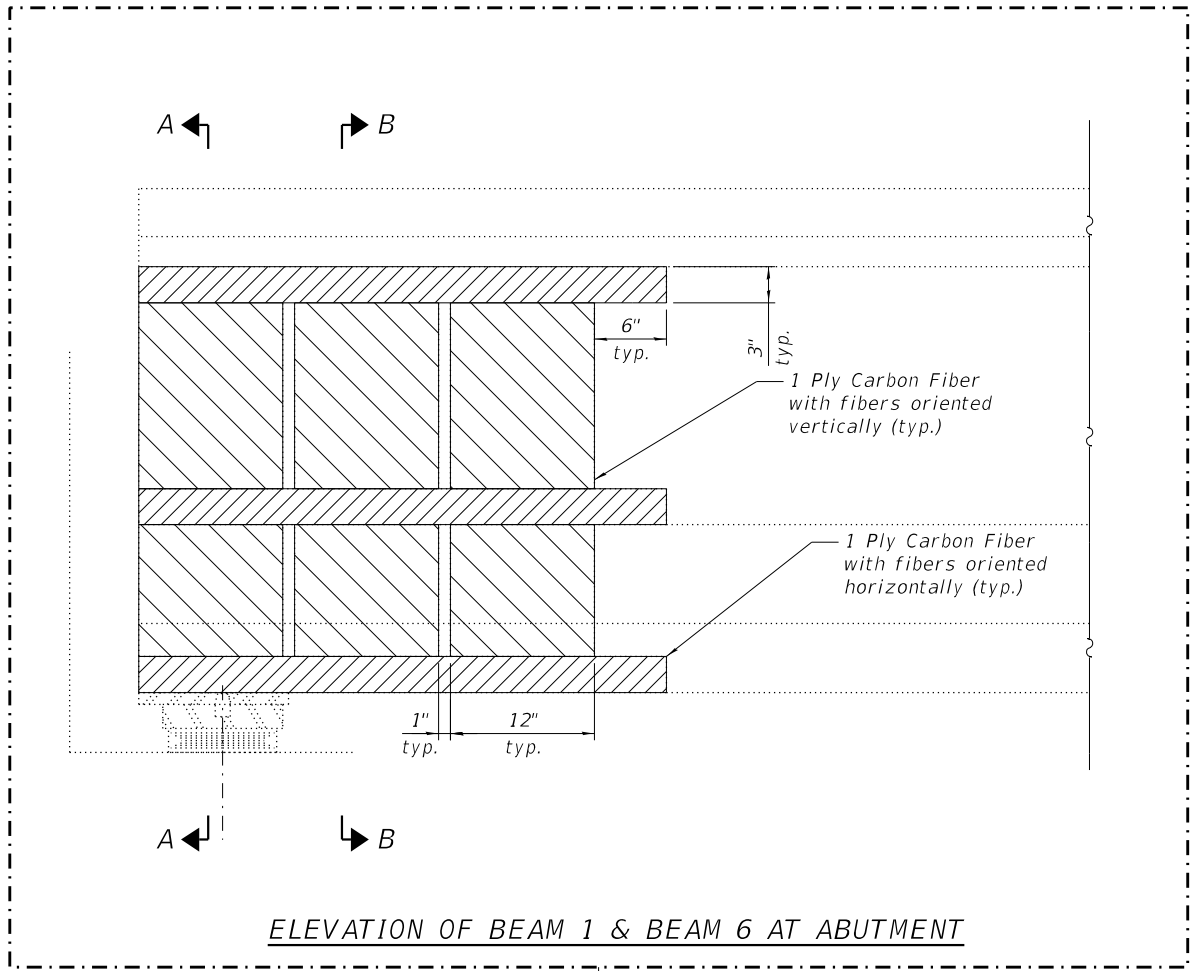
FRAMING PLAN
STRUCTURE NO. 016-2611

SHEET SA-07 OF SA-15 SHEETS

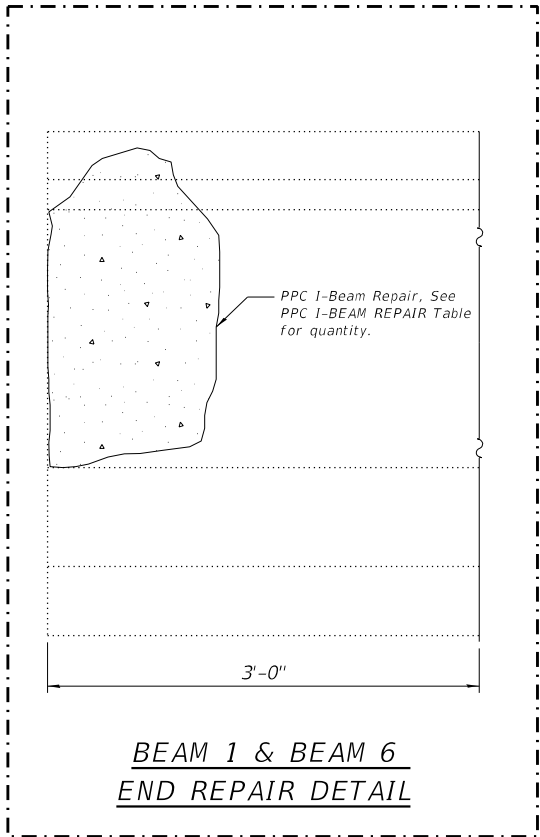
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1593	1593 22 BJ	COOK	34	20
CONTRACT NO. 62T46				
ILLINOIS FED. AID PROJECT				

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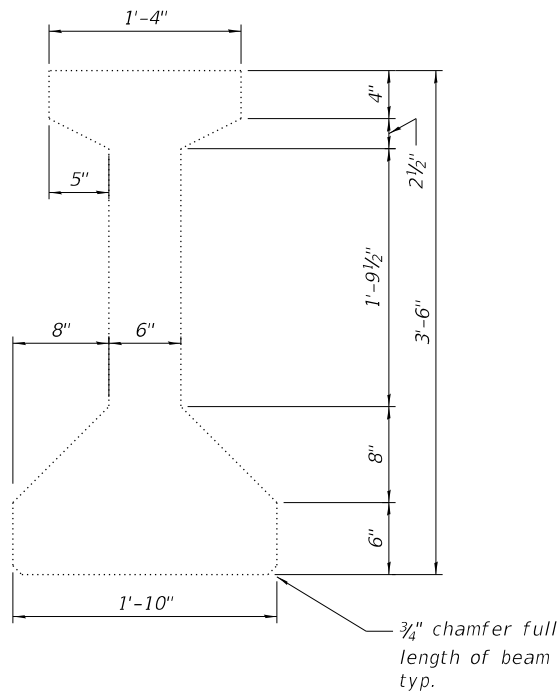
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ELEVATION OF BEAM 1 & BEAM 6 AT ABUTMENT



BEAM 1 & BEAM 6
END REPAIR DETAIL



CROSS SECTION

PPC I-BEAM REPAIR

Location	Sq. Ft.
Beam 1 West End	2.6
Beam 1 East End	1.4
Beam 6 West End	1.1
Beam 6 East End	4.2

LEGEND

	Vertical Panel
	PPC I-Beam Repair
	Horizontal Anchorage Strip

NOTES:

Vertical panels must be between 10" and 12". The space between each vertical panel shall be 1". Vertical panels shall extend beyond the repair zone by a minimum of 3". Vertical panels located above the bearing location shall be placed in two pieces as shown in Section A-A. At locations in front of the bearing, the vertical panels shall be one continuous strip wrapping beneath the bottom flange as shown in Section B-B.

Horizontal anchorage strips shall be 3" wide and extend a minimum of 6" beyond the vertical panels. The horizontal anchorage strips shall be placed on top of the vertical panels. In areas where deterioration occurs in the ends of beams, the anchorage strip shall wrap around the beam end in one continuous strip.

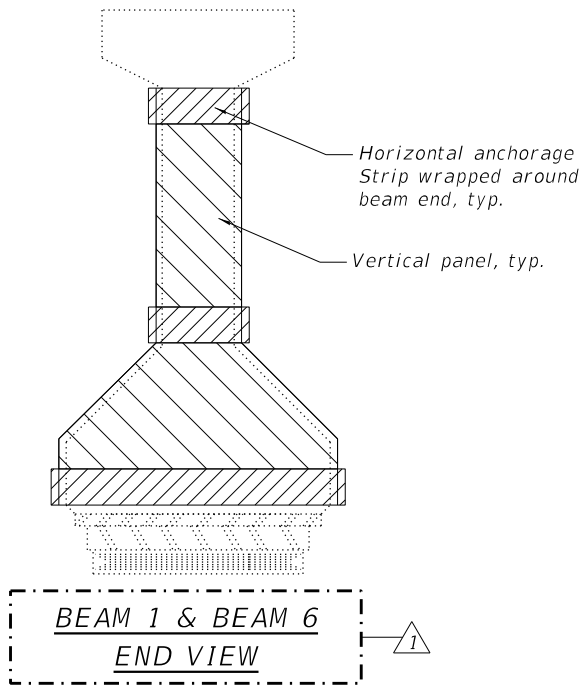
Spalled concrete and exposed reinforcement shall be repaired according to the special provision "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS".

Acrylic coating shall be placed over fiber wrap repairs.

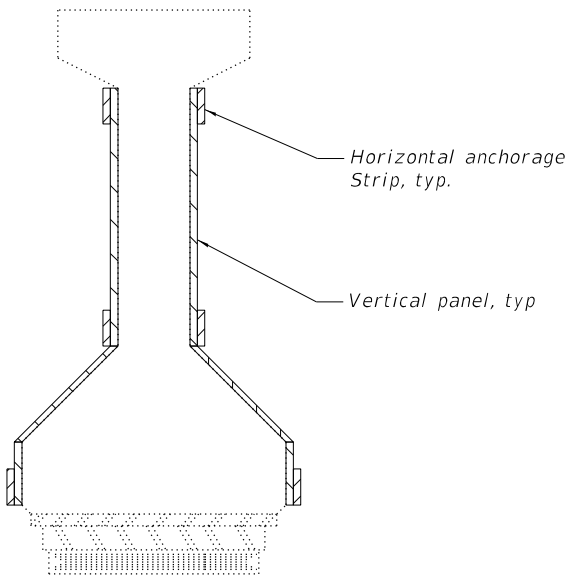
See special provisions for "FRP STRENGTHENING FOR PCC I-BEAM REPAIRS".

BILL OF MATERIAL

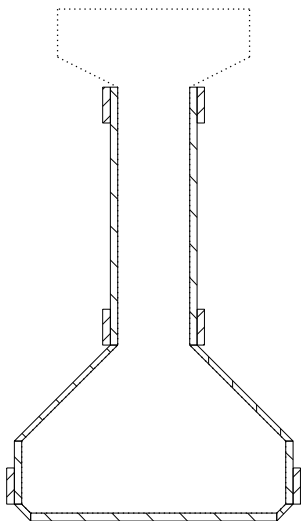
ITEM	UNIT	QUANTITY
Acrylic Coating	Sq Yd	15
Fiber Wrap	Sq Ft	111
Precast Prestressed Concrete I-Beam Repair	Sq Ft	10



BEAM 1 & BEAM 6
END VIEW



SECTION A-A



SECTION B-B



USER NAME =	DESIGNED - ME	REVISED 5/11/2026 S.U.R.
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PLOT DATE =	CHECKED - JL	REVISED -

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DEPARTMENT OF TRANSPORTATION

PPC I-BEAM REPAIRS
STRUCTURE NO. 016-2611

SHEET SA-08 OF SA-15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1593	1593 22 BJ	COOK	34	21
CONTRACT NO. 62T46				
ILLINOIS FED. AID PROJECT				

REVISED SHEET 5/27/2026