

GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, galvanized according to ASTM F 2329. Bolts 3/4 in., holes 13/16 in., unless otherwise noted. Diaphragm connection holes be 15/16" for 3/4" bolts. Two hardened washers shall be required at diaphragm connections.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Prior to pouring the new concrete deck for Expansion Joints Reconstruction and Bridge Deck repairs, all heavy or loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the Concrete Removal pay item. 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" deep shall be identified and reported to the Bureau of Bridges and Structures for further dispositions. 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 the 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 furnished at the unit price bid for the work.
- Cleaning and field painting of structural steel shall be done under a separate painting contract.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Existing reinforcement extended into the removal of area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. The cost of cleaning shall be included in the cost of Concrete Removal.
- Bars indicated thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bar per line.
- All exposed concrete edges shall have a 3/4"x45° chamfer, except where shown otherwise.
- For SMA overlay on Approach Slab, see Roadway Plans.
- Protective Coat shall be applied to the top of reconstructed transverse joint areas, top and inside face of the parapets, and top of Latex Concrete overlay.
- 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.
- Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provisions "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
- All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanized for Structural Steel".
- Adjacent I-90/94 Northbound and Southbound bridge is not shown throughout the plans for clarity.
- The Contractor shall take the necessary precautions for the protection of passing vehicles, bicycles and pedestrians from falling objects and/or materials until completion of work.
- The Contractor is responsible to remove, support and reinstall all existing electrical conduits interfering with the work. See special provision "Protection and Maintenance of Existing Underpass Luminaires".
- The Contractor shall exercise caution during Concrete Removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- The Contractor is responsible to protect the existing conduit and junction box embedded in the parapet during concrete removal and construction. Any damage to the existing conduit and junction box shall be repaired by the Contractor at no additional cost to the Department.
- Where underpass lighting is present on the structure, the Contractor shall adjust the Protective Shielding to be placed above the existing lighting fixtures in order to maintain the existing level of lighting on the roadway underneath. Details shall be approved by the Engineer before installation.
- Any adjustment done to the Protective Shield System must not change the system's load carrying capacity (or containment specifications) as indicated in the Standard Specifications. Cost of adjusting shielding is including in the cost of Protective Shield.
- The Contractor shall contact Chandra Libby, the Director of City of Chicago Department of Family Support Services (DFSS) at 312-746-5443 or Chandra.Libby@cityofchicago.org to coordinate the relocation of persons and their personal belongings under the bridges within the areas bounded by the temporary chain-link-fence.
- 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 shall be included in the cost of Concrete Sealer.

INDEX OF SHEETS

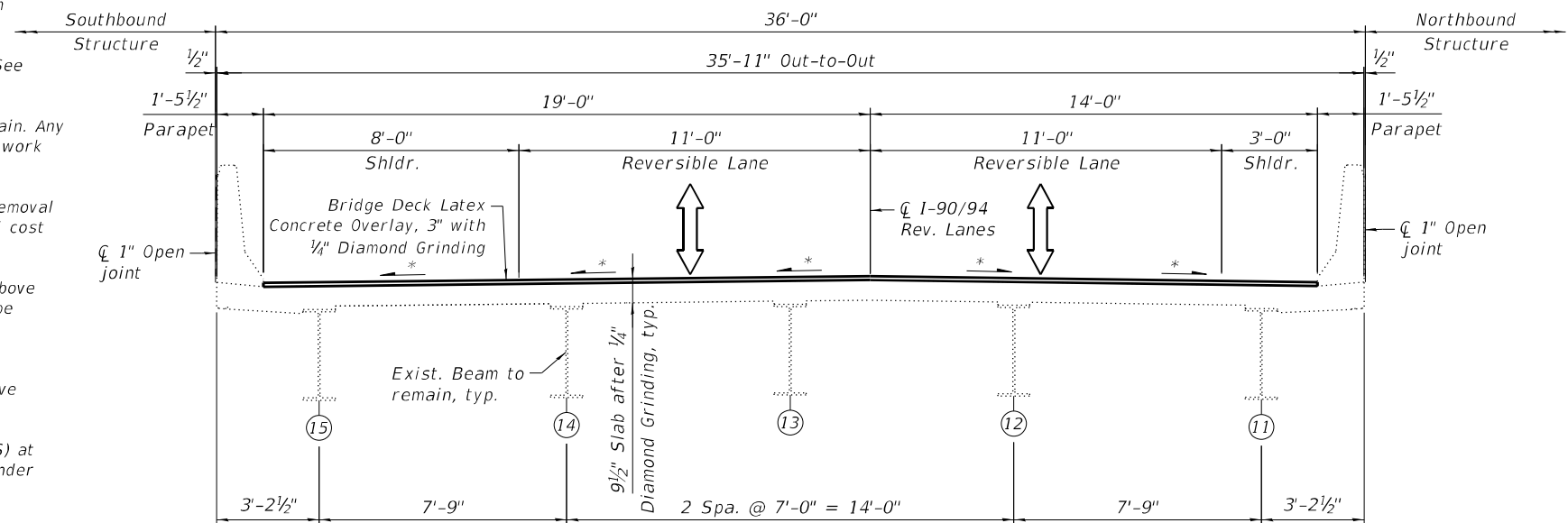
S06-01	General Plan & Elevation
S06-02	General Data
S06-03	Bridge Deck Repair Plan and Details
S06-04	Drainage Scupper Type B Adjustment Details
S06-05-S06-07	South Abutment Expansion Joint Details I, II & III
S06-08-S06-10	North Abutment Expansion Joint Details I, II & III
S06-11	Preformed Joint Strip Seal
S06-12	Framing Plan
S06-13	Structural Steel Repair Details
S06-14	South Abutment Repairs
S06-15	North Abutment Repairs
S06-16	Pier 1 Repairs
S06-17	Pier 2 Repairs
S06-18	Slope Wall Repairs

SCOPE OF WORK

- Provide Protective Shield within limits indicated on the plans.
- Scarify 3/4" from the bridge deck slab.
- Perform deck repairs.
- Remove and reconstruct expansion joints at north and south abutments and install new Preformed Joint Strip Seals.
- Repair steel diaphragms as shown on the plans.
- Adjust Drainage Scuppers.
- Apply a 3" Bridge Deck Latex Concrete Overlay on Bridge Deck. Apply a 2" Stone-Matrix Asphalt (SMA) Overlay on the Approach Slabs.
- Perform 1/4" Diamond Grinding to top of bridge deck and abutment hatched block.
- Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.
- Apply Protective Coat to the top and inside faces of parapets, reconstructed transverse expansion joints and to the surface of the new overlay.
- Perform Structural Concrete repairs to the Abutments and Piers as noted in the plans.
- Perform slope wall repairs.
- Install 2 1/2" Preformed joint seal along the top of the parapet between I-90/94 Southbound and Reversible Lanes

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu Yd		11	11
Concrete Removal	Cu Yd	12.8		12.8
Slope Wall Removal	Sq Yd		11	11
Protective Shield	Sq Yd	347		347
Concrete Superstructure	Cu Yd	12.9		12.9
Protective Coat	Sq Yd	968		968
Furnishing and Erecting Structural Steel	Pound	1,810		1,810
Reinforcement Bars, Epoxy Coated	Pound	2,260		2,260
Slope Wall 4 Inch	Sq Yd		11	11
Preformed Joint Seal 2 1/2"	Foot	208		208
Preformed Joint Strip Seal	Foot	77		77
Concrete Sealer	Sq Ft		310	310
Slope Wall Crack Sealing	Foot		13	13
Protect and Maintain Existing Underpass Luminaire	L Sum		0.022	0.022
Bridge Deck Grooving (Longitudinal)	Sq Yd	500		500
Structural Steel Removal	Pound	1,810		1,810
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	735		735
Cleaning Drainage System	L Sum	0.05		0.05
Bridge Deck Scarification 3/4"	Sq Yd	735		735
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq Ft		76	76
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq Ft		3	3
Deck Slab Repair (Full Depth, Type II)	Sq Yd	3.8		3.8
Drainage Scuppers To Be Adjusted	Each	2		2
Diamond Grinding (Bridge Section)	Sq Yd	748		748
Maintenance of Lighting System	Cal Mo		6	6
Temporary Shoring and Cribbing	Each		1	1



FINAL CROSS SECTION
(Looking North)

* Match existing deck surface profile

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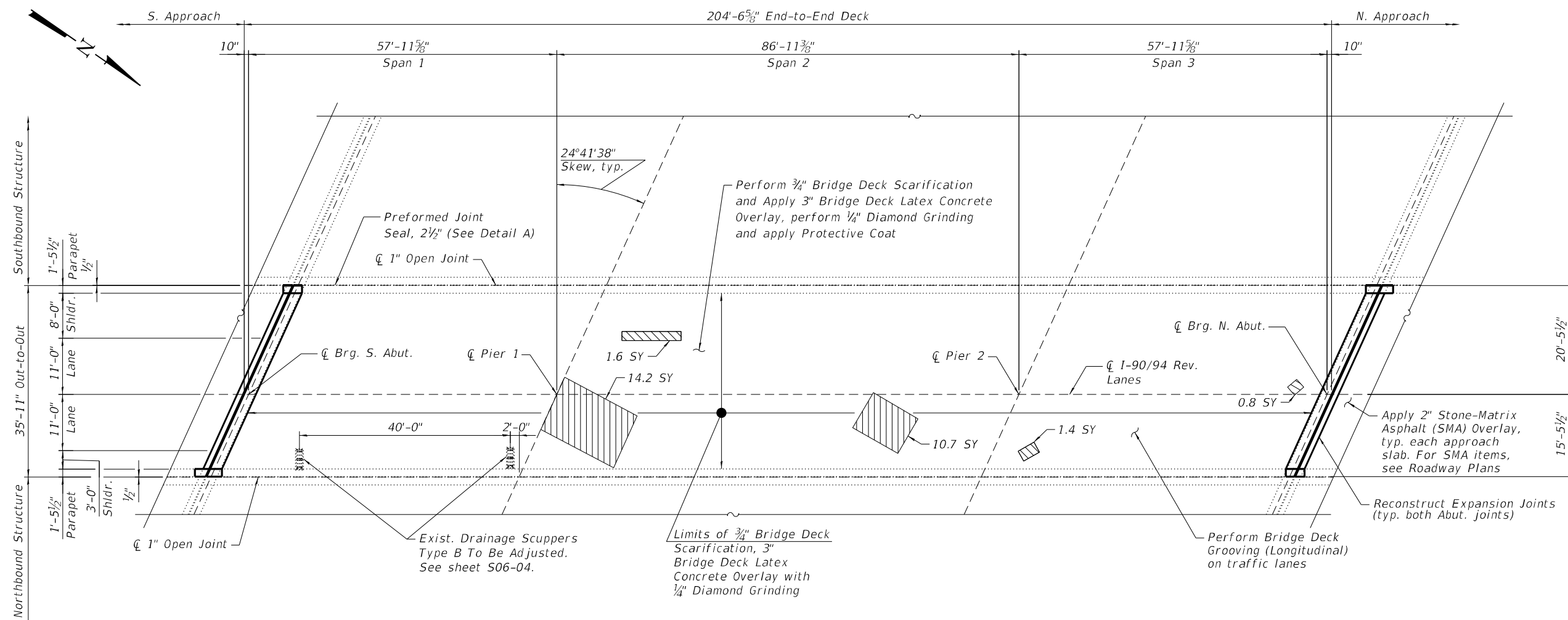
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
SN 016-0134 (REV)**

SHEET S06-02 OF S06-18 SHEETS

F.A.I. RTE. 90	SECTION 2020-004-BR	COUNTY COOK	TOTAL SHEETS 1492	SHEET NO. 601
			CONTRACT NO. 62K74	
		ILLINOIS	FED. AID PROJECT	



DECK PLAN

LEGEND

- *Deck Slab Repair (Partial Depth)
- Deck Slab Repair (Full Depth, Type II)
- SY Square Yard

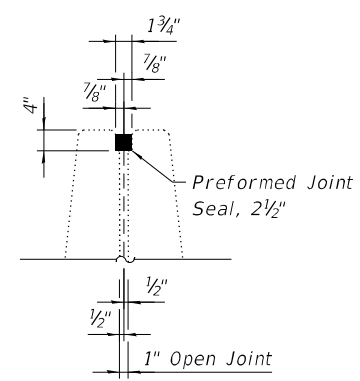
* Areas of Deck Slab Repair (Partial Depth) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3 Inches

NOTES:

1. Areas of deck repair shown are estimated. The Engineer shall show actual locations of deck repairs at the time of construction.
2. For bridge deck final cross section, see Sheet S06-02.
3. For North and South transverse joint removal and reconstruction, see Sheet S06-05 thru S06-10.
4. Perform 1/4" Diamond Grinding to top of bridge deck and abutment hatched block.
5. Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.
6. Protective Coat shall be applied to the top of reconstructed transverse joints, top and inside face of parapets and top of latex concrete overlay.
7. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.
8. The Contractor shall exercise extreme caution during concrete removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer at no cost to the Department.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Protective Shield	Sq Yd	347
Protective Coat	Sq Yd	968
Preformed Joint Seal 2 1/2"	Foot	208
Protect and Maintain Existing Underpass Luminaire	L Sum	0.022
Bridge Deck Grooving (Longitudinal)	Sq Yd	500
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	735
Bridge Deck Scarification 3/4"	Sq Yd	735
Deck Slab Repair (Full Depth, Type II)	Sq Yd	3.8
Diamond Grinding (Bridge Section)	Sq Yd	748
Maintenance of Lighting System	Cal Mo	6



DETAIL A

(Reinforcement not shown for clarity)

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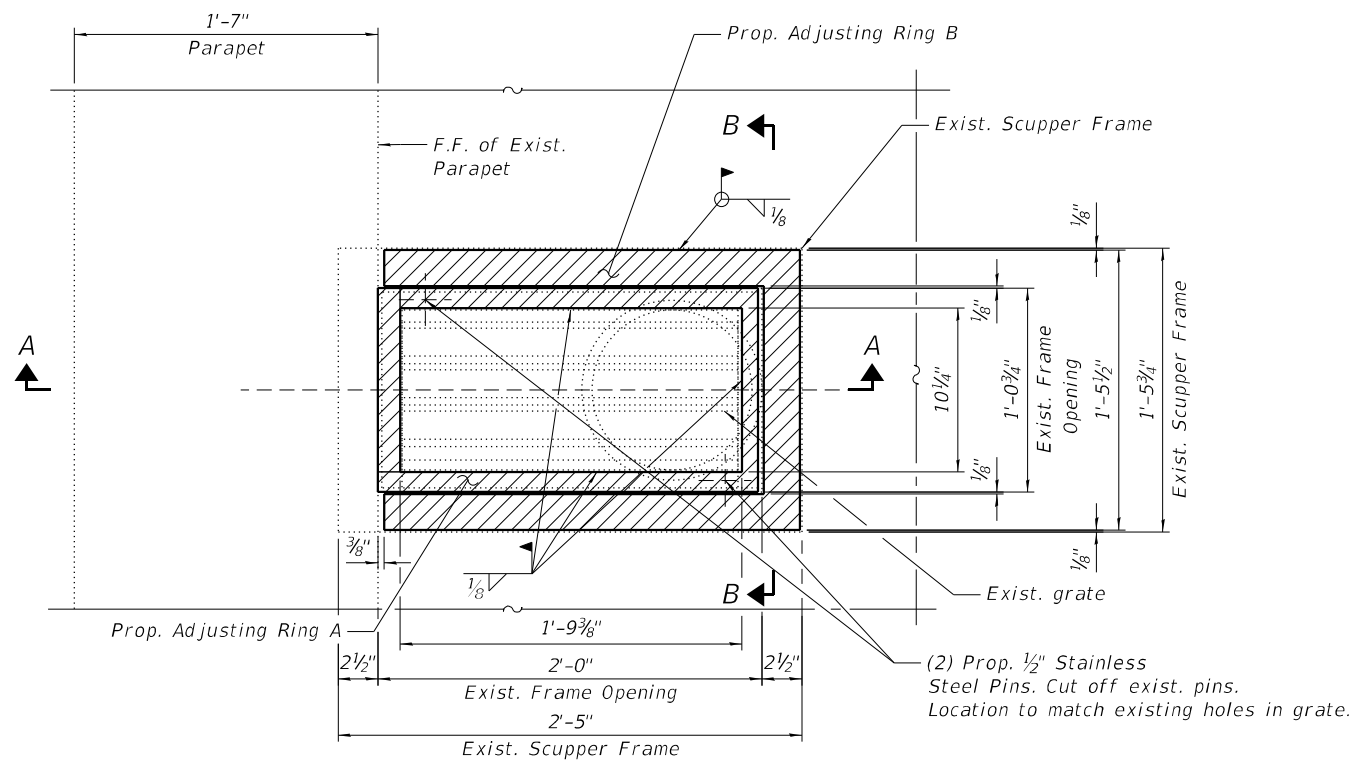
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK REPAIR PLAN AND DETAILS
SN 016-0134 (REV)**

SHEET S06-03 OF S06-18 SHEETS

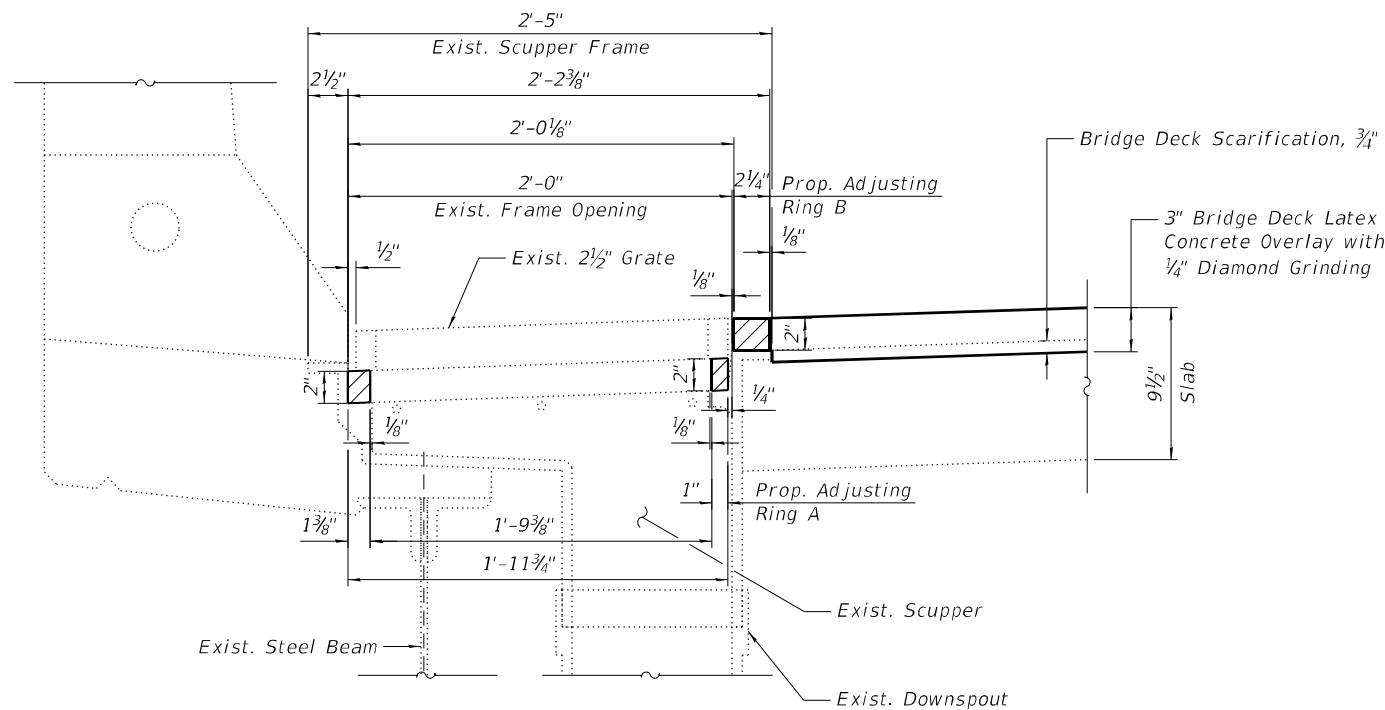
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CONTRACT NO. 62K74			ILLINOIS FED. AID PROJECT	



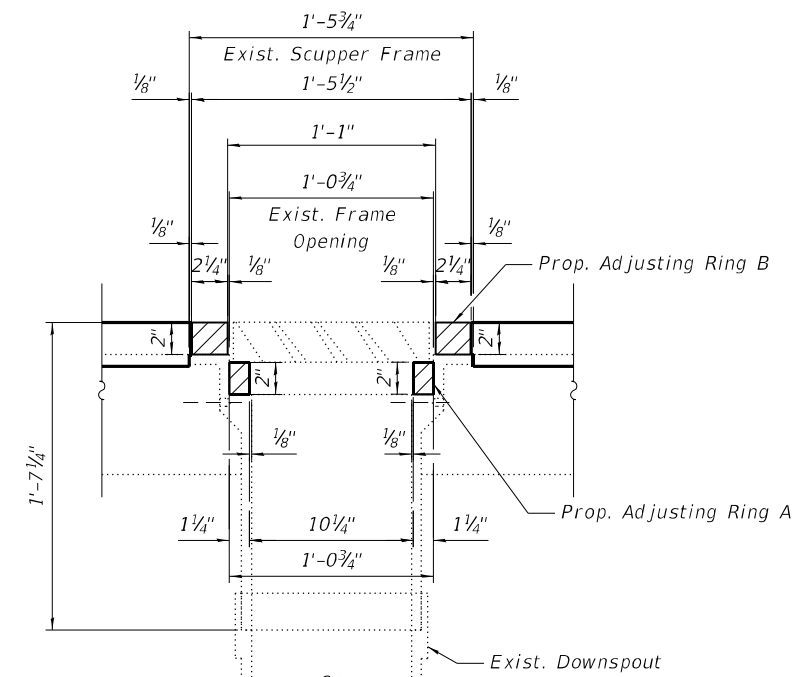
TYPICAL SCUPPER TYPE B PLAN
(2 Locations)

NOTES

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scuppers and make necessary adjustments prior to construction of New Adjusting Rings or ordering of material for Adjusting Drainage Scuppers.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Cast Iron Parts shall be unfinished.
4. The Contractor shall take appropriate measures to ensure that Protective Coat is not applied to the scuppers.
5. Adjusting Rings shall be from Neenah or approved equal. Structural steel weldments or equal section and of the same configuration may be submitted in place of Cast Iron. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a $\frac{1}{8}$ " Fillet Weld around perimeter of new Adjusting Rings to secure to existing Scupper.
7. Cost of all labor and materials necessary to clean all existing floor drains and scuppers, install adjusting scupper rings, remove and reinstall grates is included in the cost for Drainage Scupper to be Adjusted.



SECTION A-A



SECTION B-B

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Drainage System	L Sum	0.05
Drainage Scuppers To Be Adjusted	Each	2

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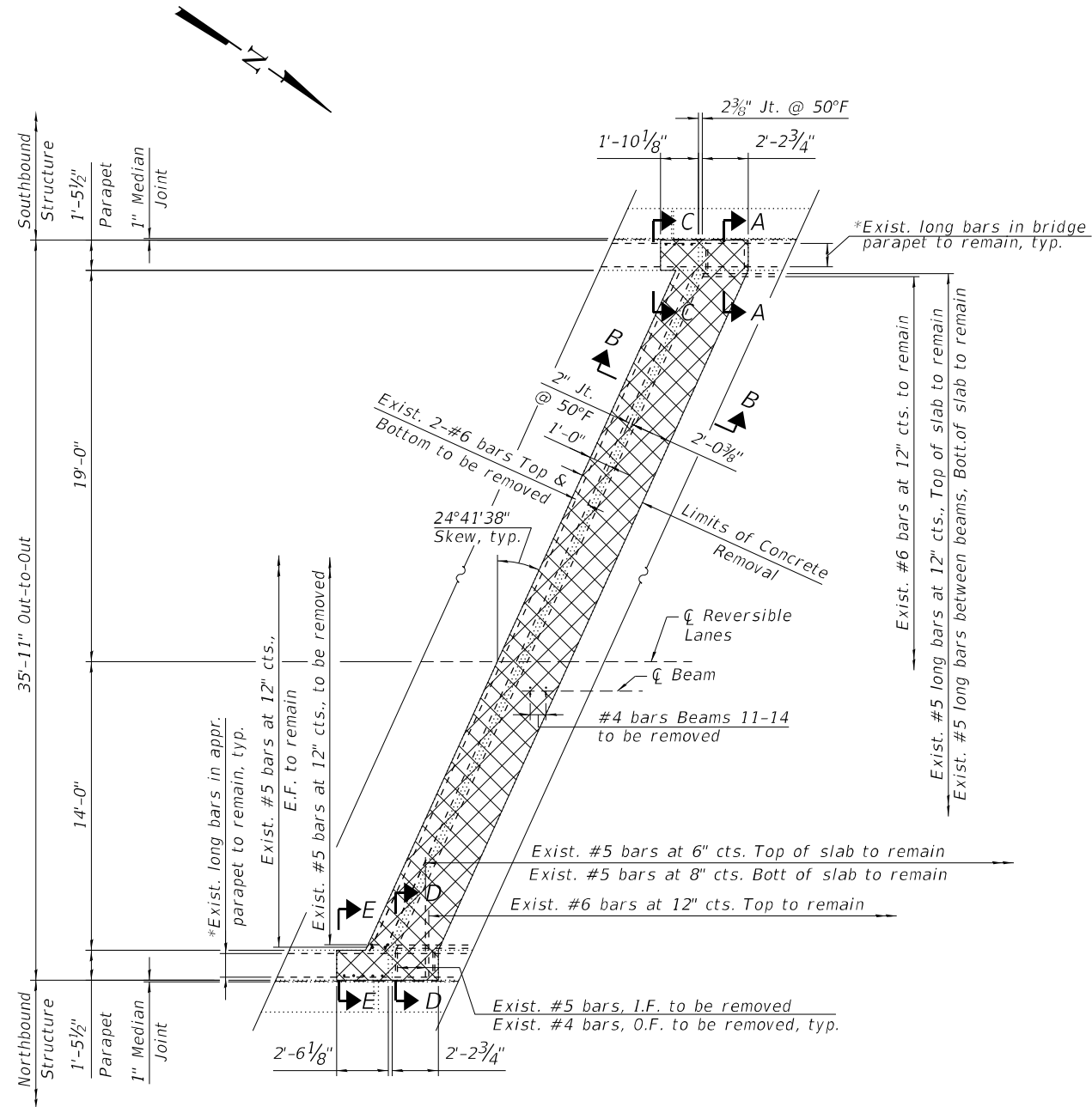
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER TYPE B ADJUSTMENT DETAILS
 SN 016-0134 (REV)

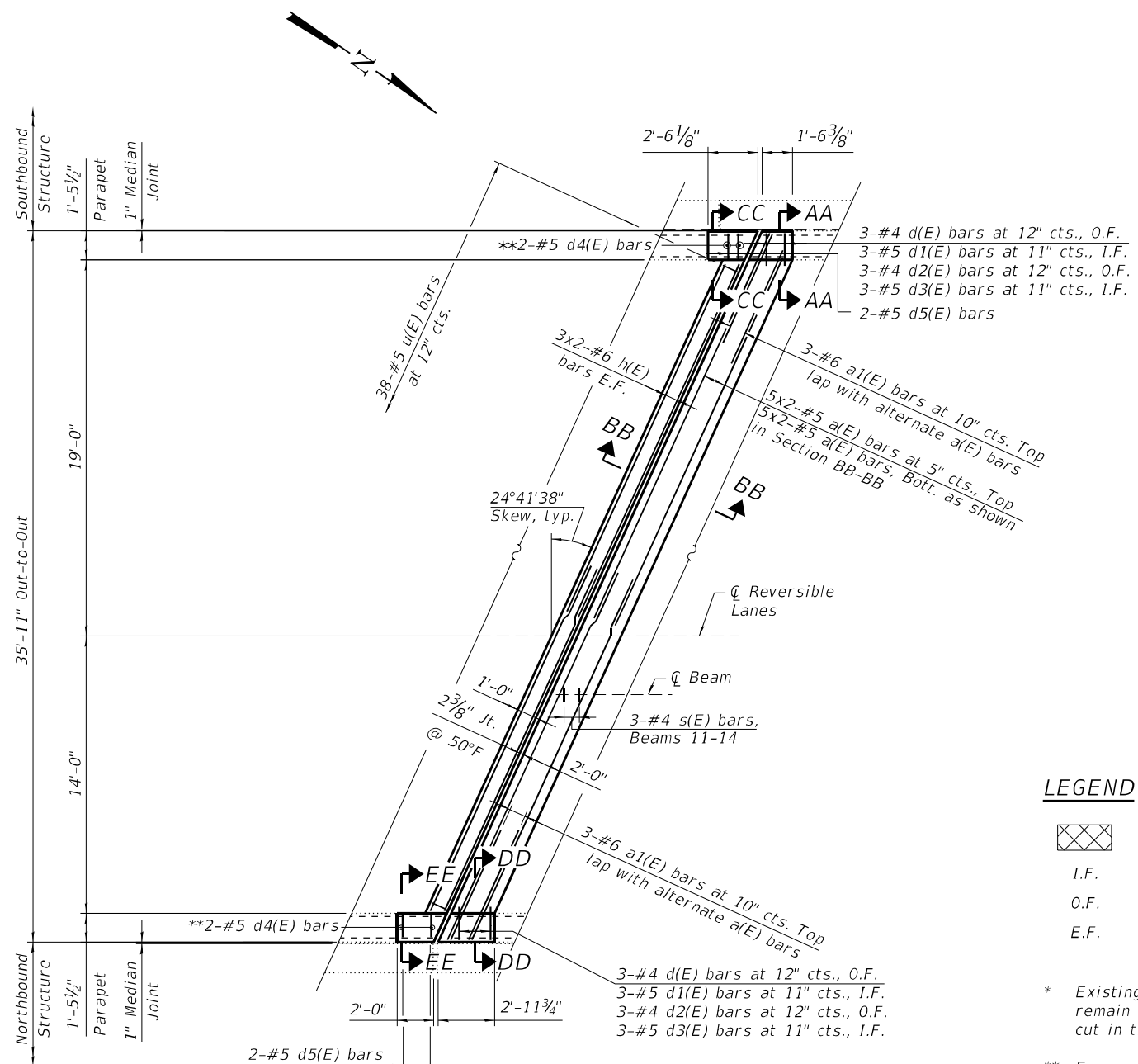
SHEET S06-04 OF S06-18 SHEETS

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CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

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SOUTH ABUTMENT JOINT REMOVAL PLAN



SOUTH ABUTMENT JOINT RECONSTRUCTION PLAN

LEGEND

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

- * Existing longitudinal bars to remain in the parapets can be cut in the field as required.
- ** Epoxy grout #5 d4(E) bars in 9" min. holes in accordance with Section 508 of the Standard Specifications.

NOTES:

1. For sections A-A, B-B, C-C, AA-AA, BB-BB and CC-CC, see sheet S06-06.
2. For sections D-D, E-E, DD-DD and EE-EE, see sheet S06-07.



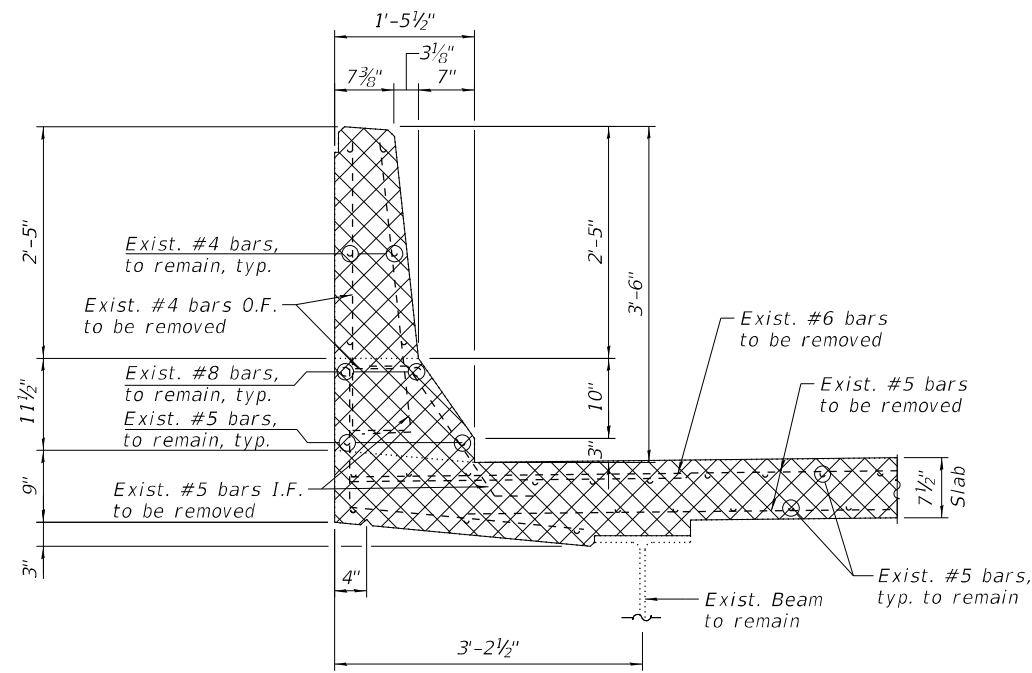
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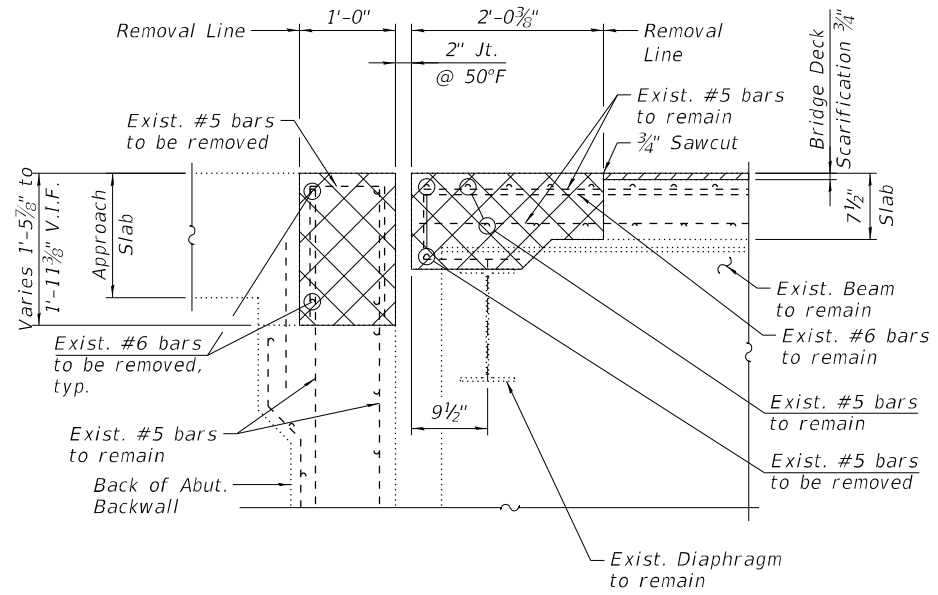
**SOUTH ABUTMENT EXPANSION JOINT DETAILS I
 SN 016-0134 (REV)**

SHEET S06-05 OF S06-18 SHEETS

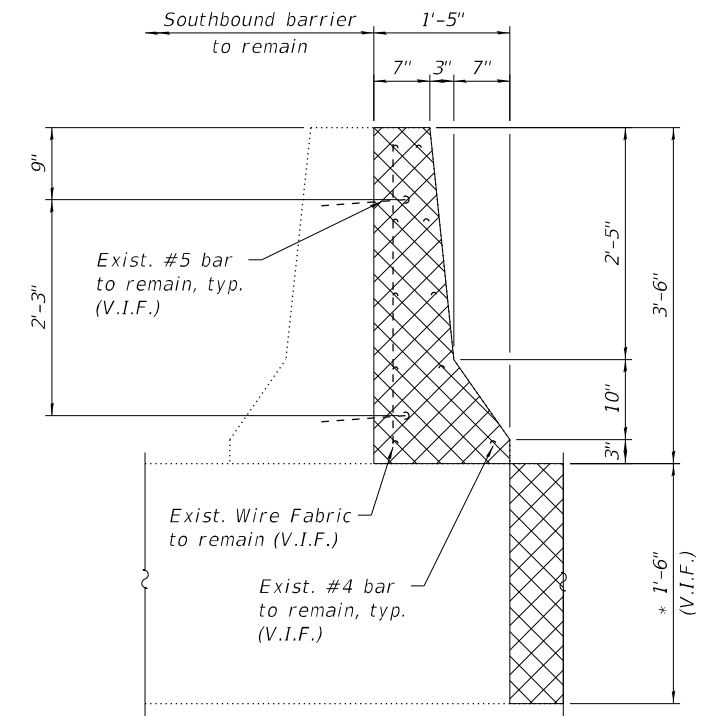
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K74	



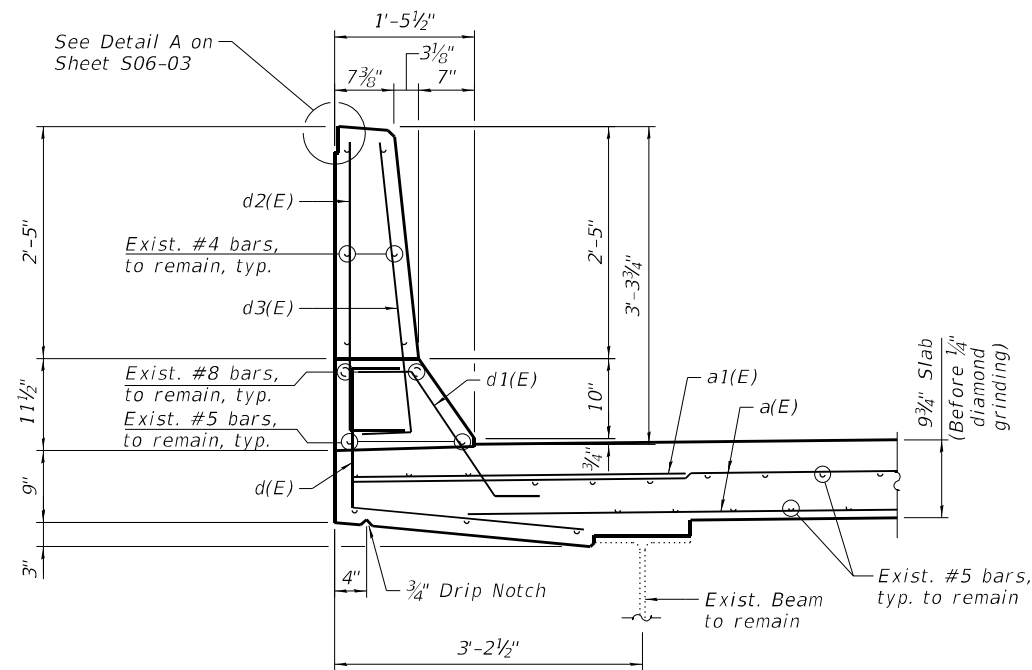
SECTION A-A
(West parapet removal)



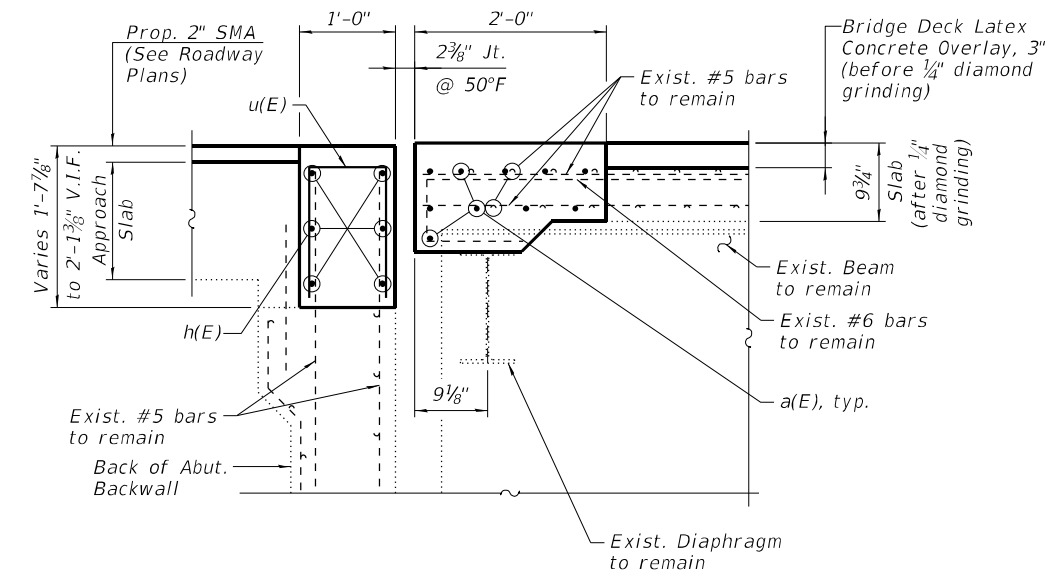
SECTION B-B



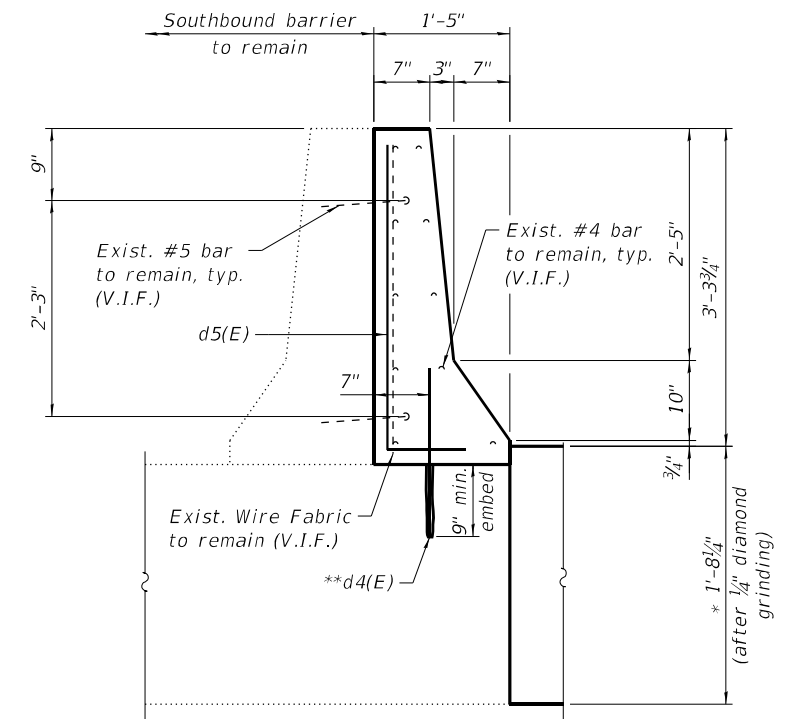
SECTION C-C
(West parapet removal)



SECTION AA-AA
(West parapet reconstruction)



SECTION BB-BB



SECTION CC-CC
(West parapet reconstruction)

LEGEND

- Concrete Removal
- I.F. Inside Face
- O.F. Outside Face
- V.I.F. Verify in Field

* Dimension is taken at the Back of Abut.

** Epoxy grout #5 d4(E) bars in 9" min. holes in accordance with Section 508 of the Standard Specifications.

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STATE OF ILLINOIS
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SOUTH ABUTMENT EXPANSION JOINT DETAILS II
SN 016-0134 (REV)

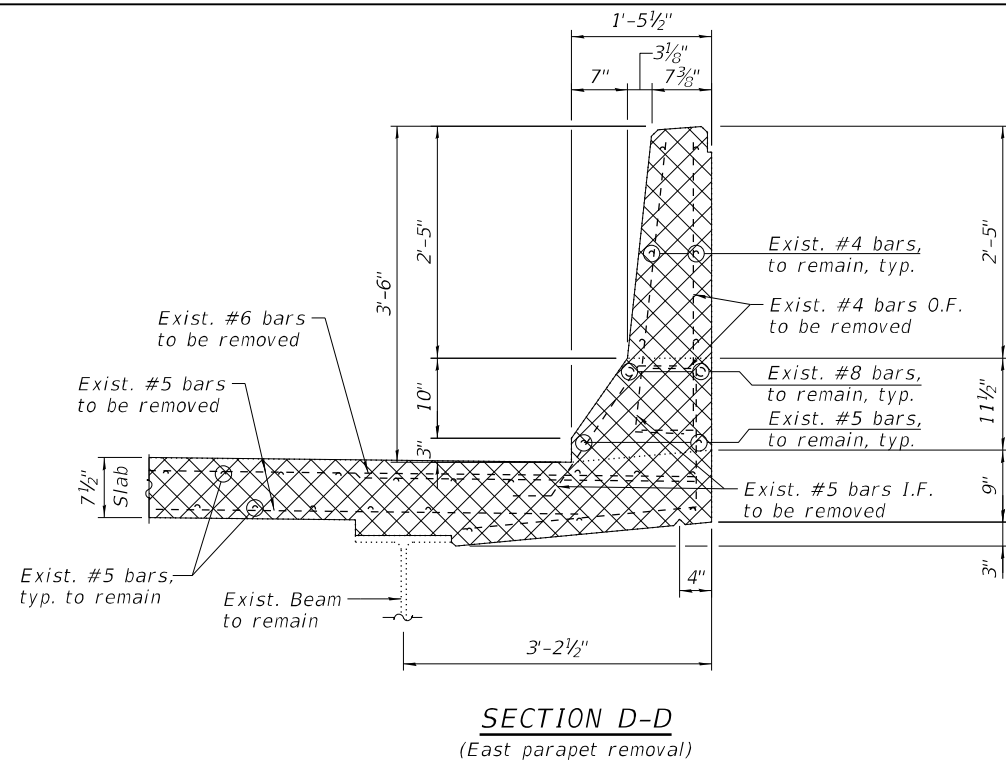
SHEET S06-06 OF S06-18 SHEETS

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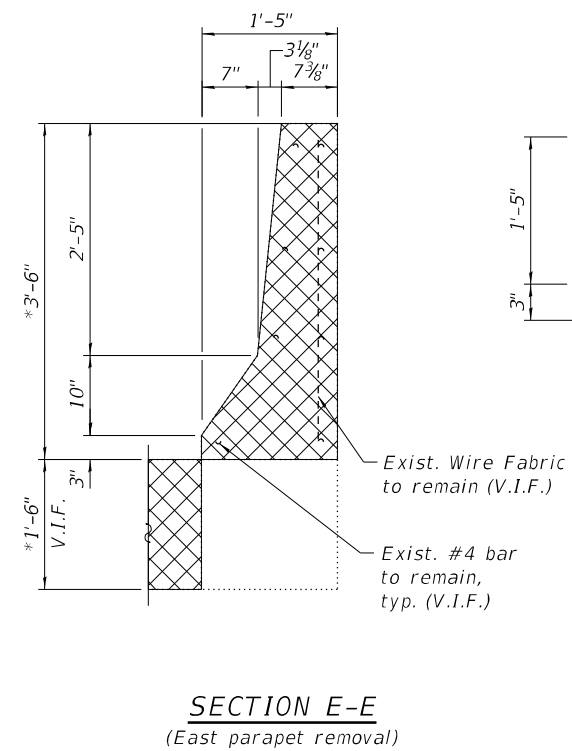
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**BILL OF MATERIAL
SOUTH ABUTMENT**

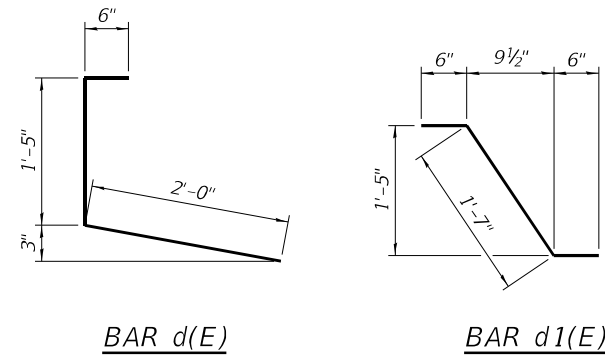
Bar	No.	Size	Length	Shape
a(E)	20	#5	21'-6"	—
a1(E)	6	#6	6'-6"	—
d(E)	6	#4	3'-11"	⌋
d1(E)	6	#5	2'-7"	⌋
d2(E)	6	#4	3'-8"	⌋
d3(E)	6	#5	3'-8"	⌋
d4(E)	4	#5	1'-9"	⌋
d5(E)	4	#5	4'-2"	⌋
h(E)	12	#6	21'-3"	—
s(E)	12	#4	2'-10"	⌋
u(E)	38	#5	3'-0"	⌋
Concrete Removal			Cu Yd	6.6
Reinforcement Bars, Epoxy Coated			Pound	1,130
Concrete Superstructure			Cu Yd	6.6



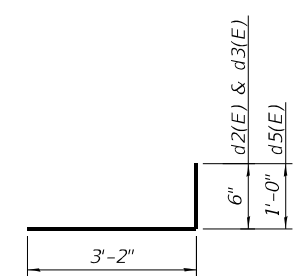
SECTION D-D
(East parapet removal)



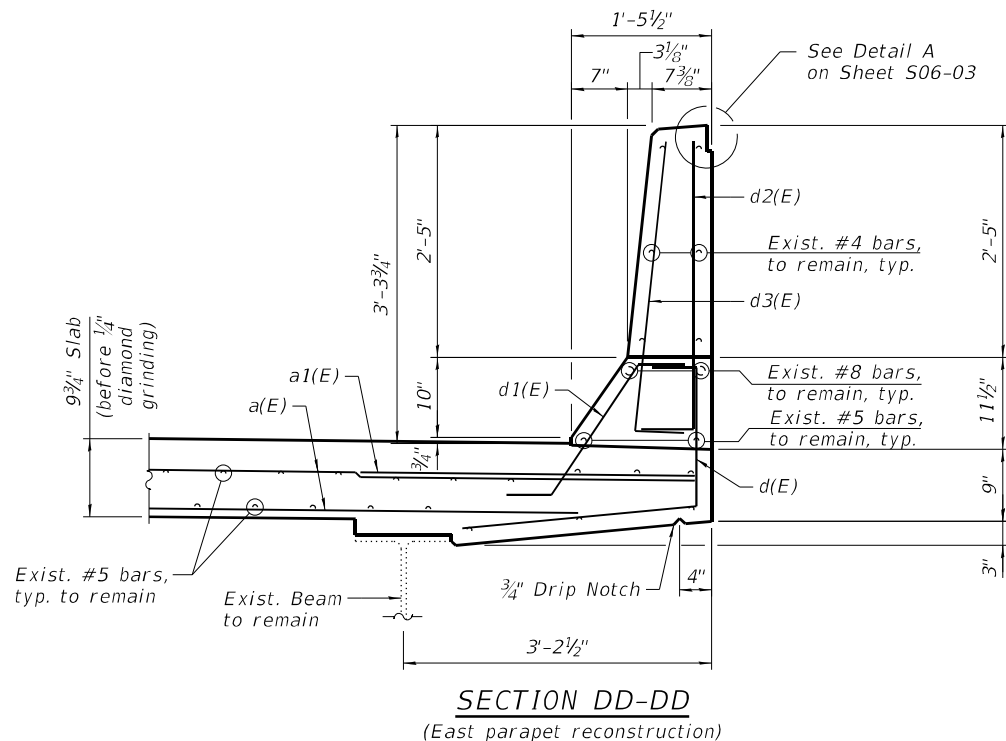
SECTION E-E
(East parapet removal)



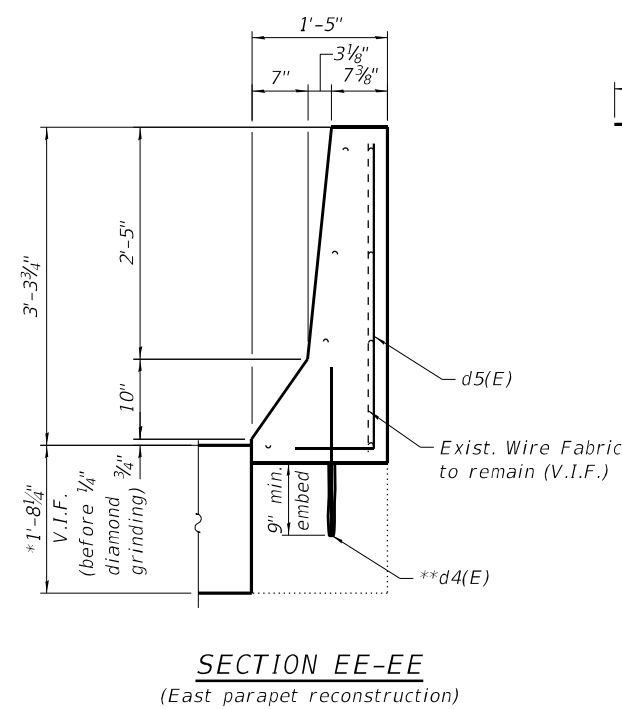
BAR d(E) **BAR d1(E)**



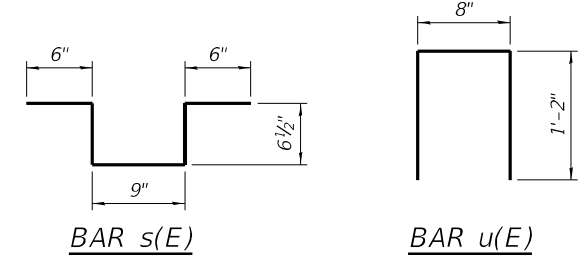
BARS d2(E), d3(E) & d5(E)



SECTION DD-DD
(East parapet reconstruction)



SECTION EE-EE
(East parapet reconstruction)



BAR s(E) **BAR u(E)**

NOTES:

- For Preformed Joint Strip Seal details, see sheet S06-11.
- 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. Cost shall be included with Concrete Removal.
- Removal of Existing Expansion Joint will not be paid for separately but will be included in the cost of Concrete Removal.

- * Dimension is taken at the Back of Abut.
- ** Epoxy grout #5 d4(E), bars in 9" min. holes in accordance with Section 508 of the Standard Specifications.

MIN BAR LAPS

#5	3'-6"
#6	4'-0"

LEGEND

- Concrete Removal
- I.F. Inside Face
- O.F. Outside Face
- V.I.F. Verify in Field

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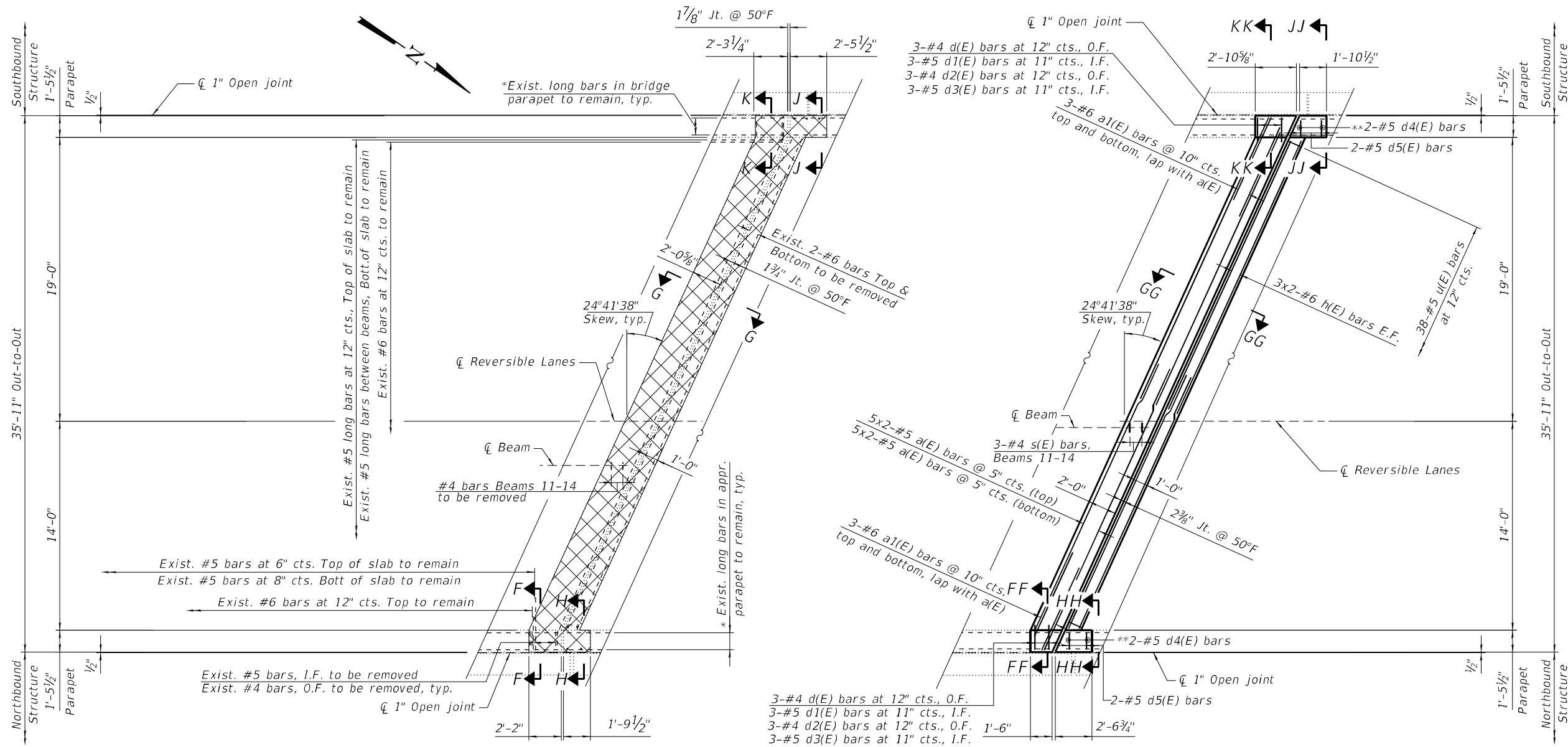
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**STATE OF ILLINOIS
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**SOUTH ABUTMENT EXPANSION JOINT DETAILS III
SN 016-0134 (REV)**

SHEET S06-07 OF S06-18 SHEETS


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90	2020-004-BR	COOK	1492	606
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		



NORTH ABUTMENT JOINT REMOVAL PLAN

NORTH ABUTMENT JOINT RECONSTRUCTION PLAN

LEGEND

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

NOTES:

1. For sections F-F, G-G, H-H, FF-FF, GG-GG and HH-HH, see sheet S06-09.
2. For sections J-J, K-K, JJ-JJ and KK-KK, see sheet S06-10.

* Existing longitudinal bars to remain in the parapets cab be cut in the field as required.

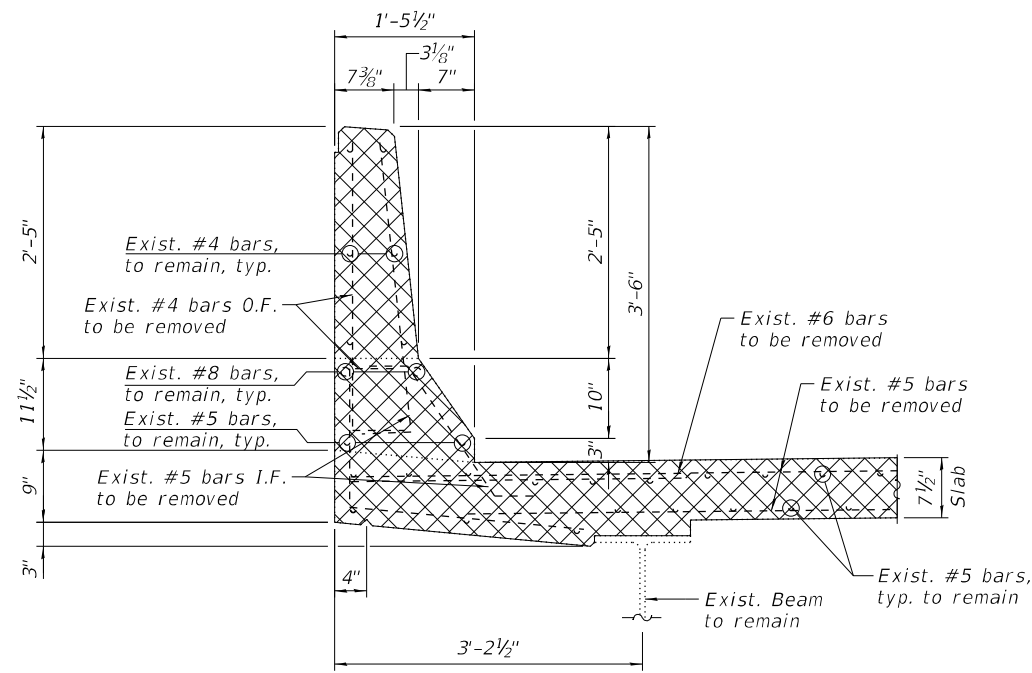
** Epoxy grout #5 d4(E) bars in 9" min. holes in accordance with Section 508 of the Standard Specifications.

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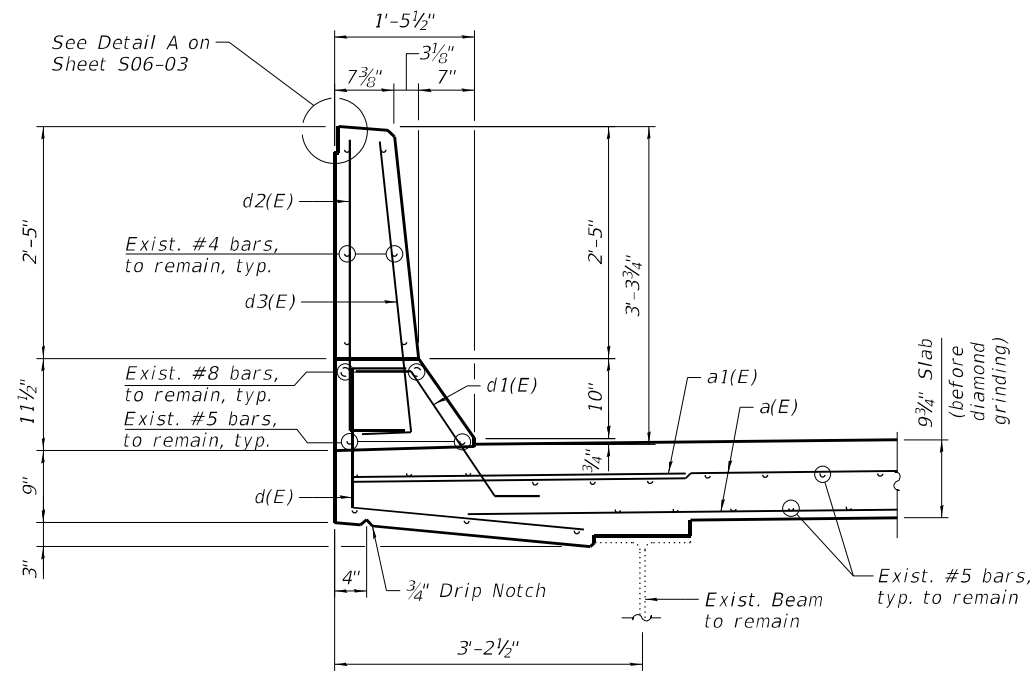
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	CHECKED - H.A.	REVISED -
PLOT SCALE =	DRAWN - D.C.P.	REVISED -
PLOT DATE =	CHECKED - K.G.W.	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	607
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

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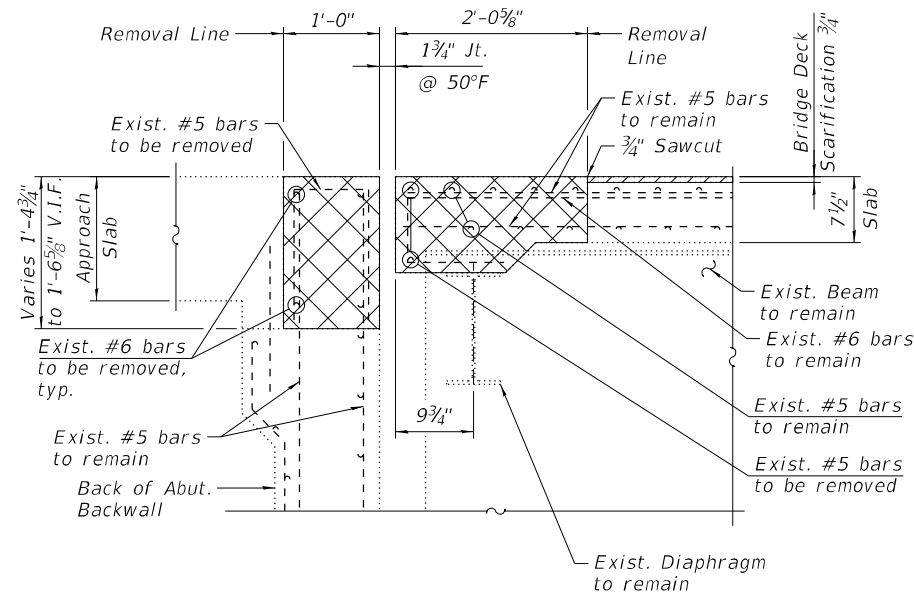
SECTION F-F
 (East parapet removal)



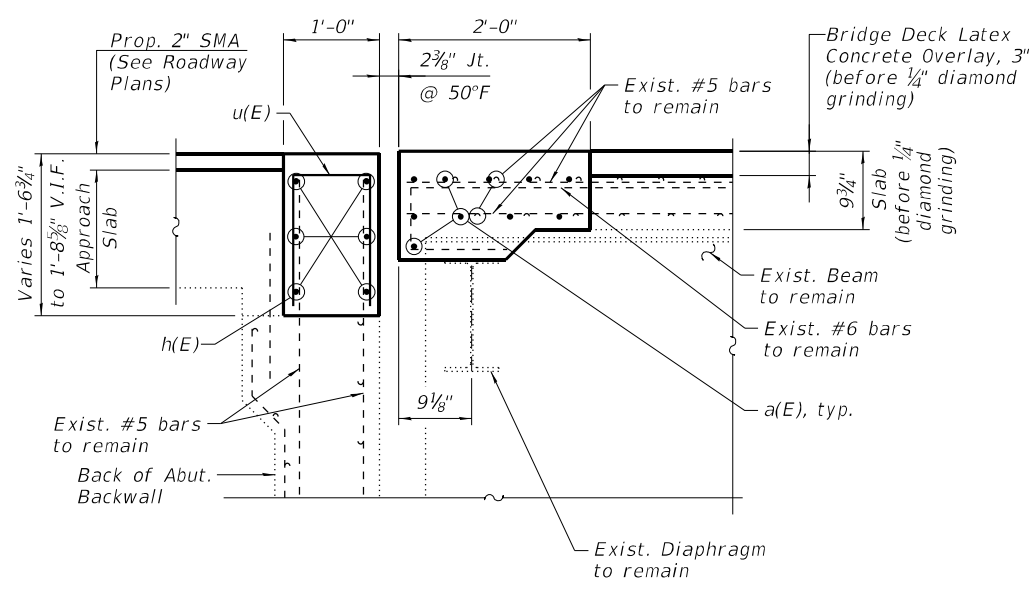
SECTION FF-FF
 (East parapet reconstruction)

LEGEND

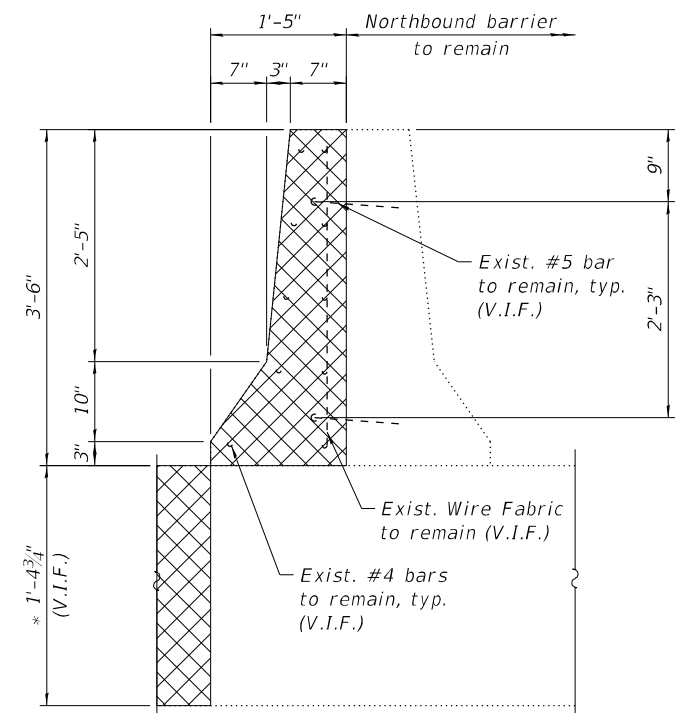
- Concrete Removal
- I.F. Inside Face
- O.F. Outside Face
- V.I.F. Verify in Field



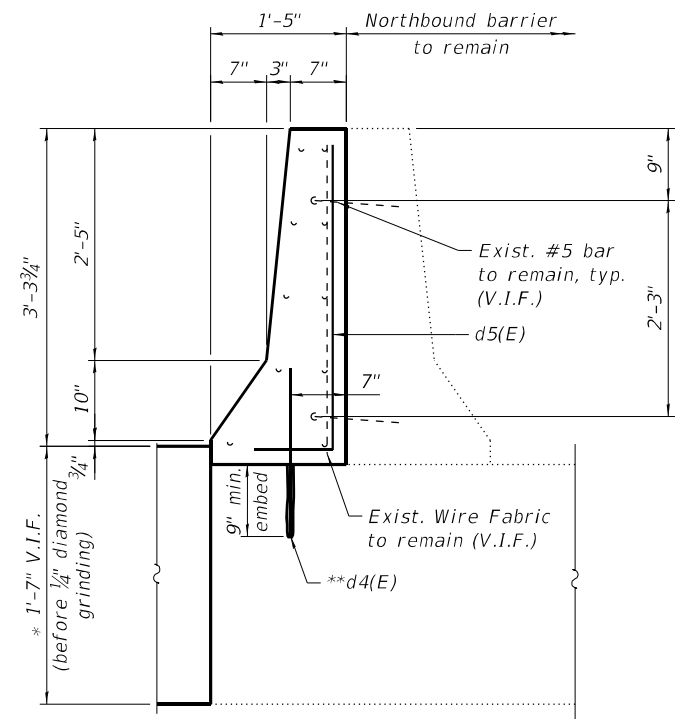
SECTION G-G



SECTION GG-GG



SECTION H-H
 (East parapet removal)



SECTION HH-HH
 (East parapet reconstruction)

* Dimension is taken at the Back of Abut.

** Epoxy grout #5 d4(E), bars in 9" min. holes in accordance with Section 508 of the Standard Specifications.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

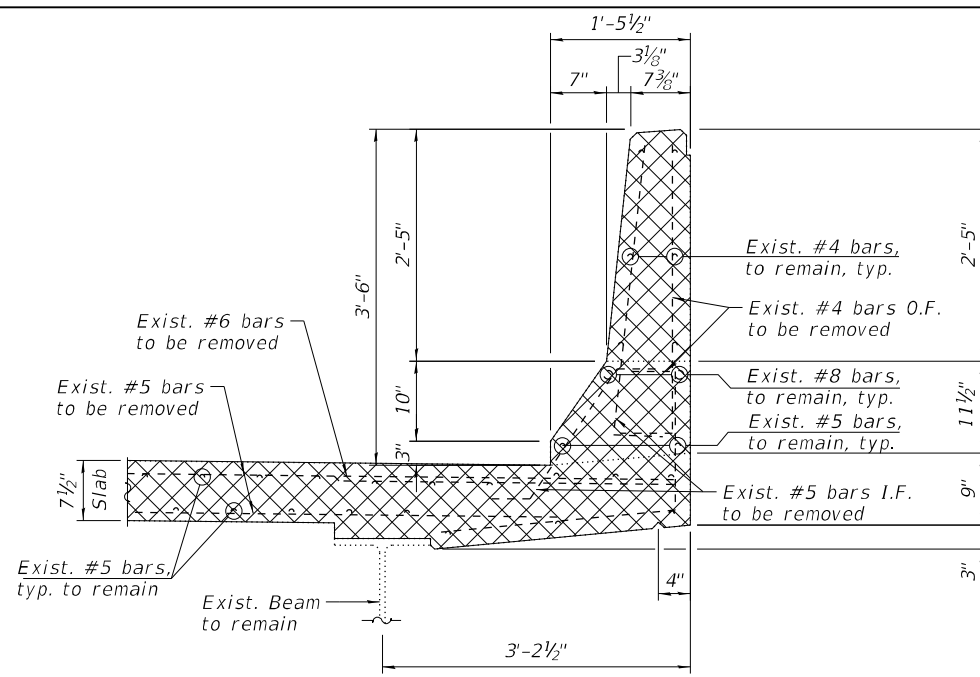
NORTH ABUTMENT EXPANSION JOINT DETAILS II
SN 016-0134 (REV)

SHEET S06-09 OF S06-18 SHEETS

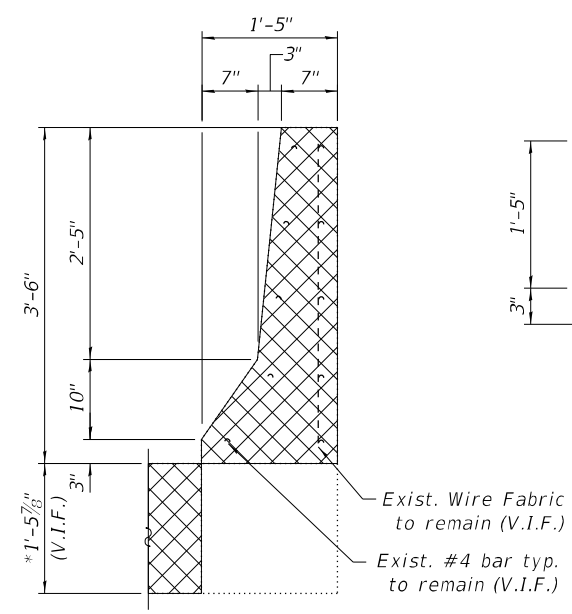
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	608
CONTRACT NO. 62K74				
		ILLINOIS FED. AID PROJECT		

**BILL OF MATERIAL
NORTH ABUTMENT**

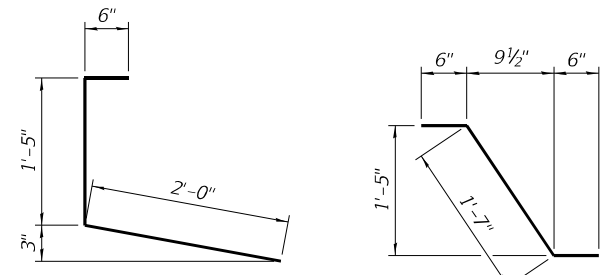
Bar	No.	Size	Length	Shape
a(E)	20	#5	21'-6"	—
a1(E)	6	#6	6'-6"	—
d(E)	6	#4	3'-11"	⌋
d1(E)	6	#5	2'-7"	⌋
d2(E)	6	#4	3'-8"	⌋
d3(E)	6	#5	3'-8"	⌋
d4(E)	4	#5	1'-9"	⌋
d5(E)	4	#5	4'-2"	⌋
h(E)	12	#6	21'-3"	—
s(E)	12	#4	2'-10"	⌋
u(E)	38	#5	3'-0"	⌋
Concrete Removal			Cu Yd	6.2
Reinforcement Bars, Epoxy Coated			Pound	1,130
Concrete Superstructure			Cu Yd	6.3



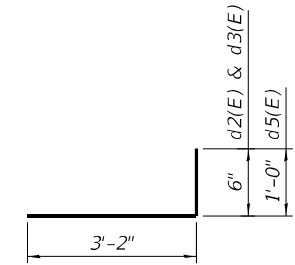
SECTION K-K
(West parapet removal)



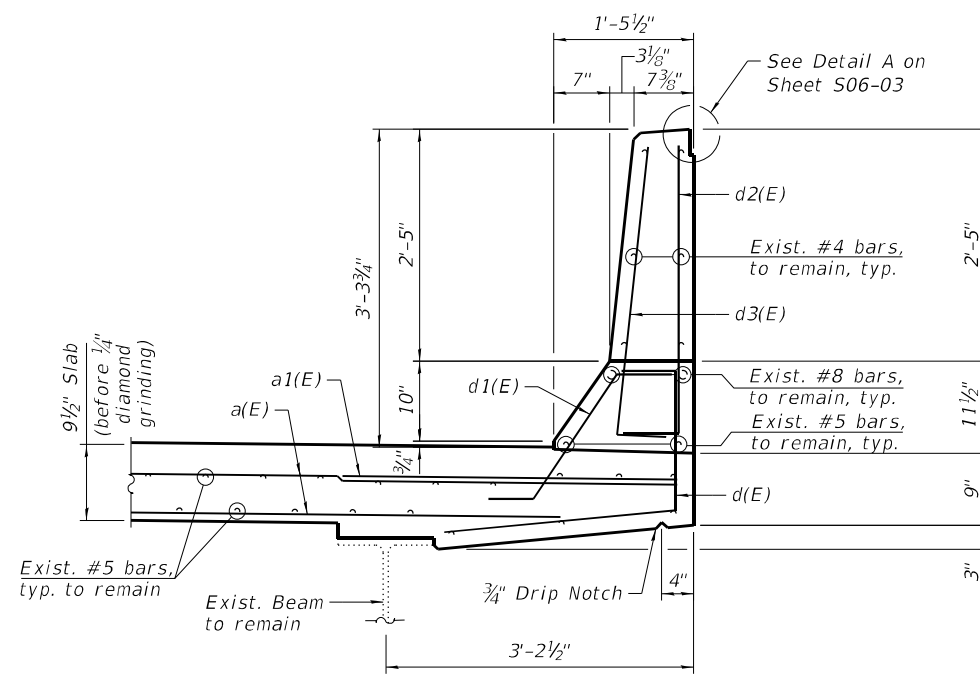
SECTION J-J
(West parapet removal)



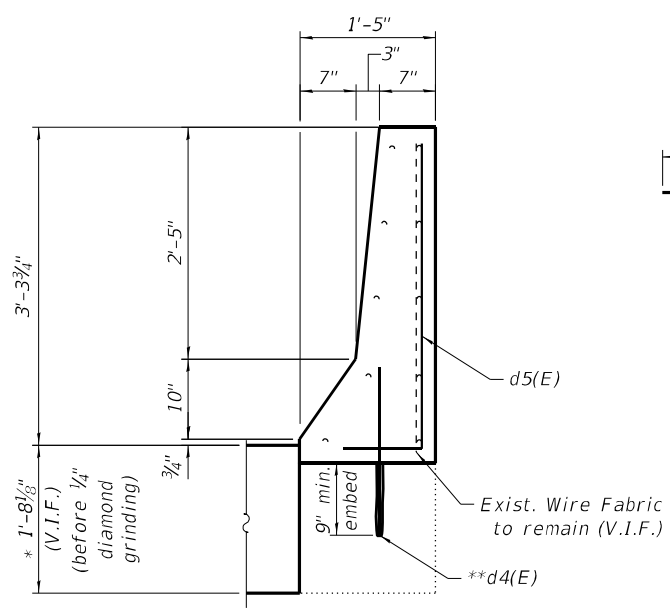
BAR d(E) **BAR d1(E)**



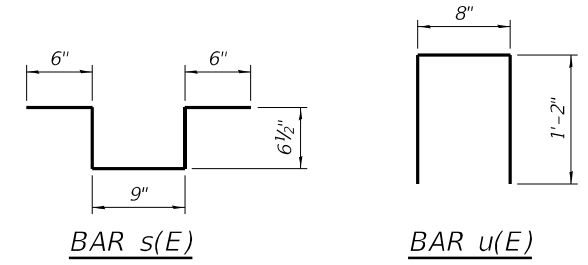
BARS d2(E), d3(E) & d5(E)



SECTION KK-KK
(West parapet reconstruction)



SECTION JJ-JJ
(West parapet reconstruction)



BAR s(E) **BAR u(E)**

NOTES:

- For Preformed Joint Strip Seal details, see sheet S06-11.
- 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. Cost shall be included with Concrete Removal.
- Removal of Existing Expansion Joint will not be paid for separately but will be included in the cost of Concrete Removal.

* Dimension is taken at the Back of Abutment.

** Epoxy grout #5 d4(E) bars in 9" min. holes in accordance with Section 508 of the Standard Specifications.

MIN BAR LAPS

#5	3'-6"
#6	4'-0"

LEGEND

- Concrete Removal
- I.F. Inside Face
- O.F. Outside Face
- V.I.F. Verify in Field

MODEL: S06-10-03; FILE NAME: X:\OH\2020\20200221-03\Design\Structural\Design Files\CADD\SH\1016-0134_North_Rev0160134-42K74-5010-EXPR.dgn

GRAEF
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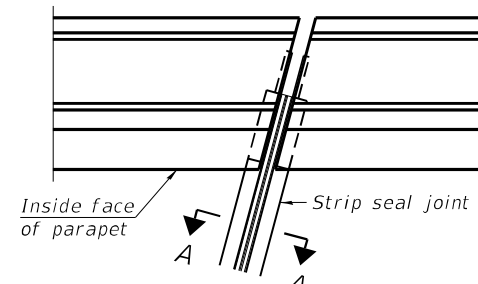
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT EXPANSION JOINT DETAILS III
SN 016-0134 (REV)**

SHEET S06-10 OF S06-18 SHEETS

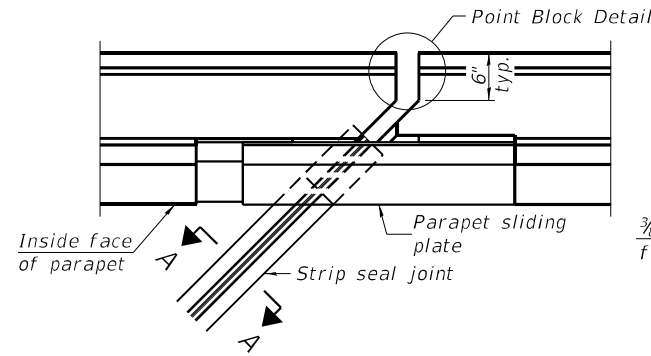
F.A.I. RTE. 90	SECTION 2020-004-BR	COUNTY COOK	TOTAL SHEETS 1492	SHEET NO. 609
			CONTRACT NO. 62K74	
		ILLINOIS FED. AID PROJECT		

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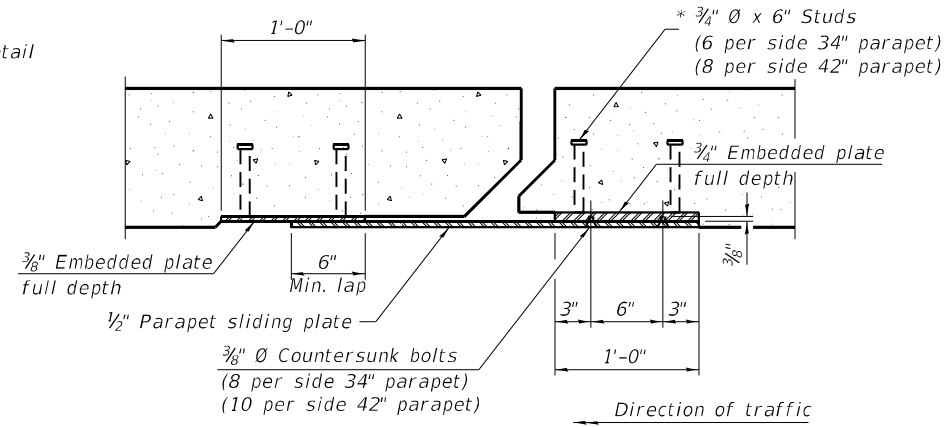


FOR SKEWS $\leq 30^\circ$

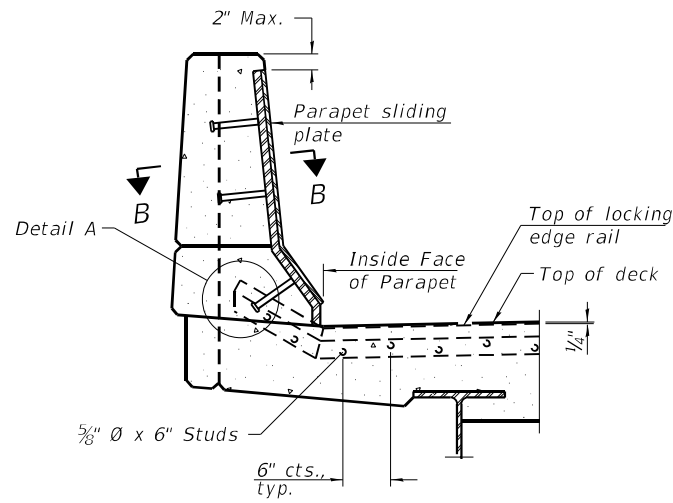
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

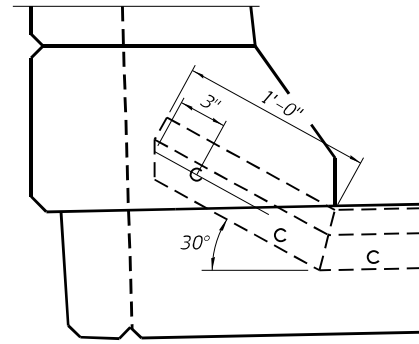


SECTION B-B

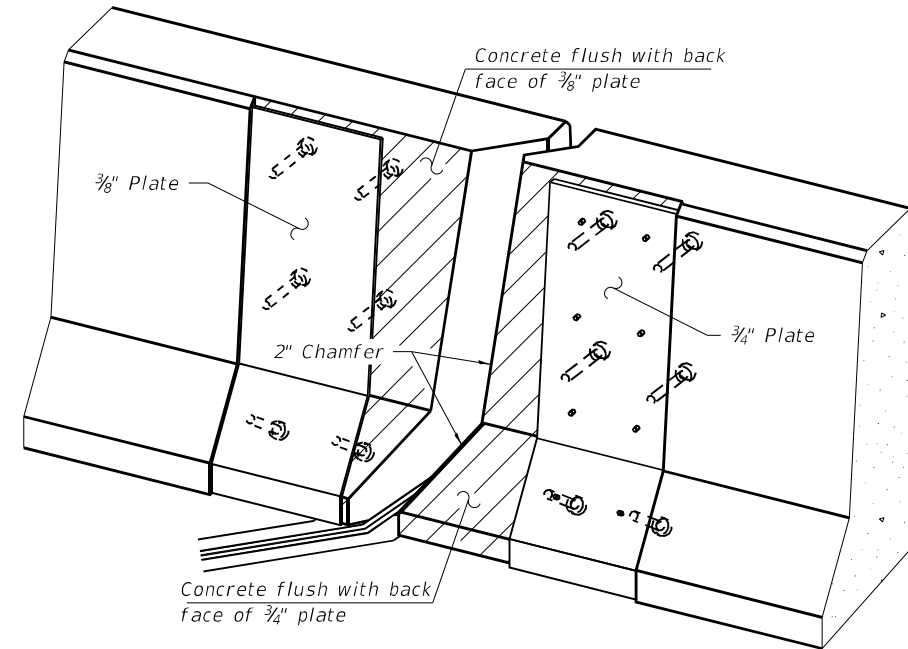


ELEVATION AT PARAPET

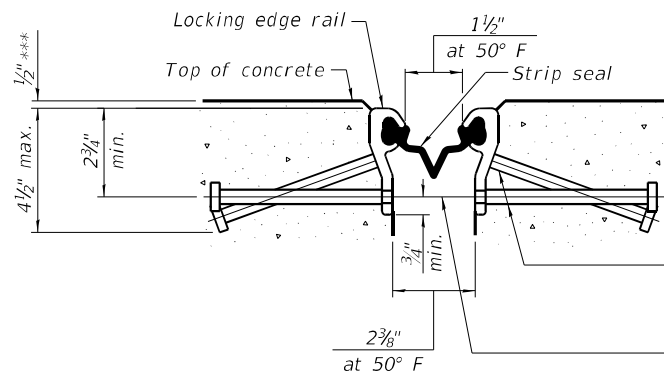
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



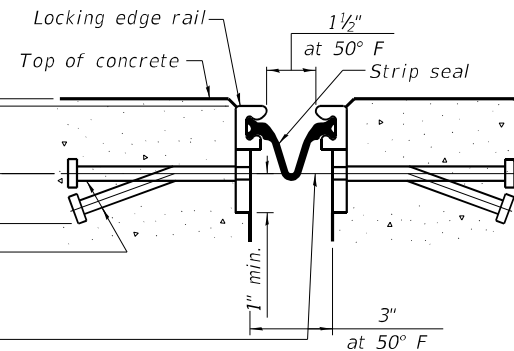
TRIMETRIC VIEW
(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

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

$3/8"$ ϕ threaded rods in $1/16"$ 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.

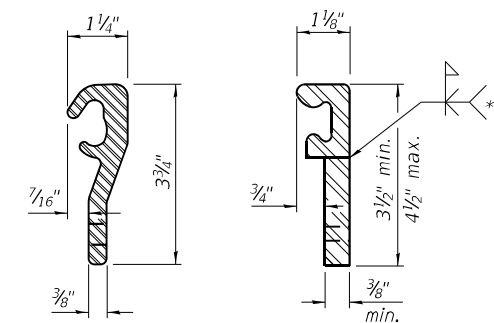


SHOWING WELDED RAIL JOINT

SECTION A-A

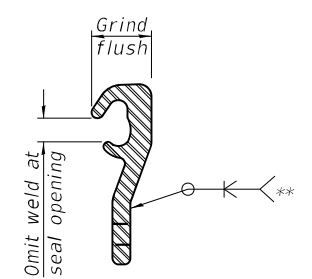
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

*** Before $1/4"$ Diamond Grinding.



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

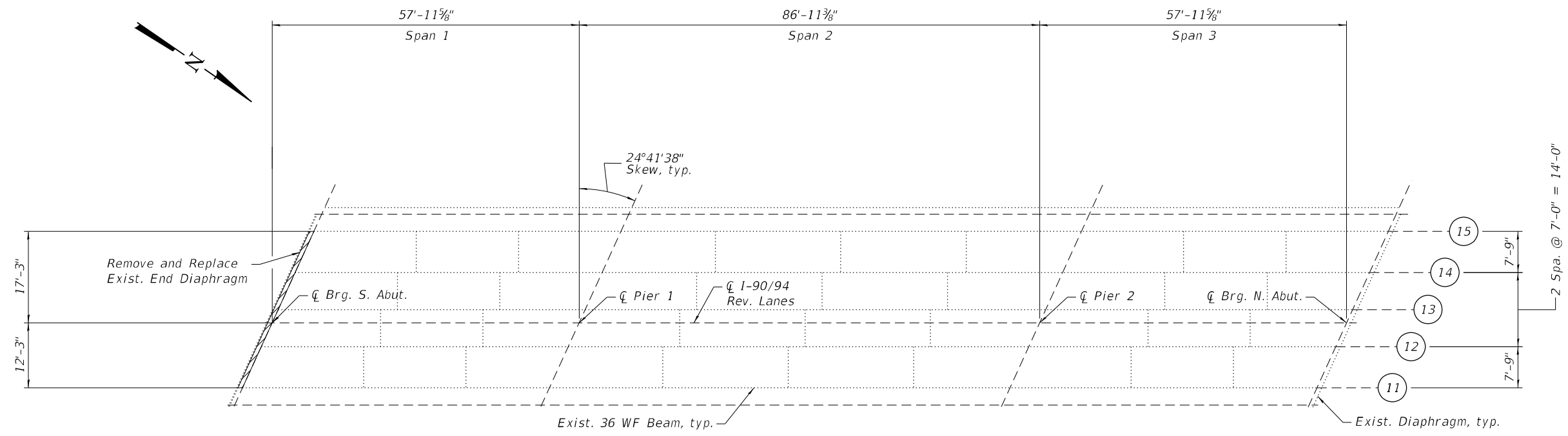
The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	77

USER NAME =	DESIGNED -	F.B.	REVISED -
PLOT SCALE =	CHECKED -	H.A.	REVISED -
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	CHECKED -	K.G.W.	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	610
			CONTRACT NO. 62K74	
		ILLINOIS FED. AID PROJECT		



FRAMING PLAN

NOTES:

1. For typical section, see Sheet S06-02.
2. For Diaphragm Removal and Replacement Details, see Sheet S06-13.

LEGEND

Remove and Replace Exist. End Diaphragm

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	1,810
Structural Steel Removal	Pound	1,810

MODEL: sMODELNAME5
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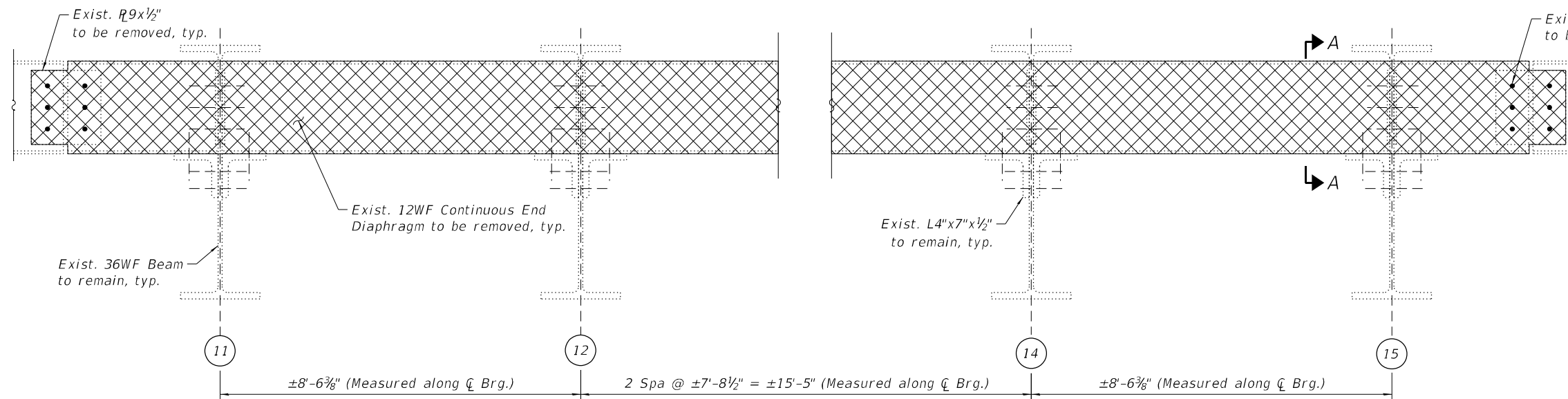
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

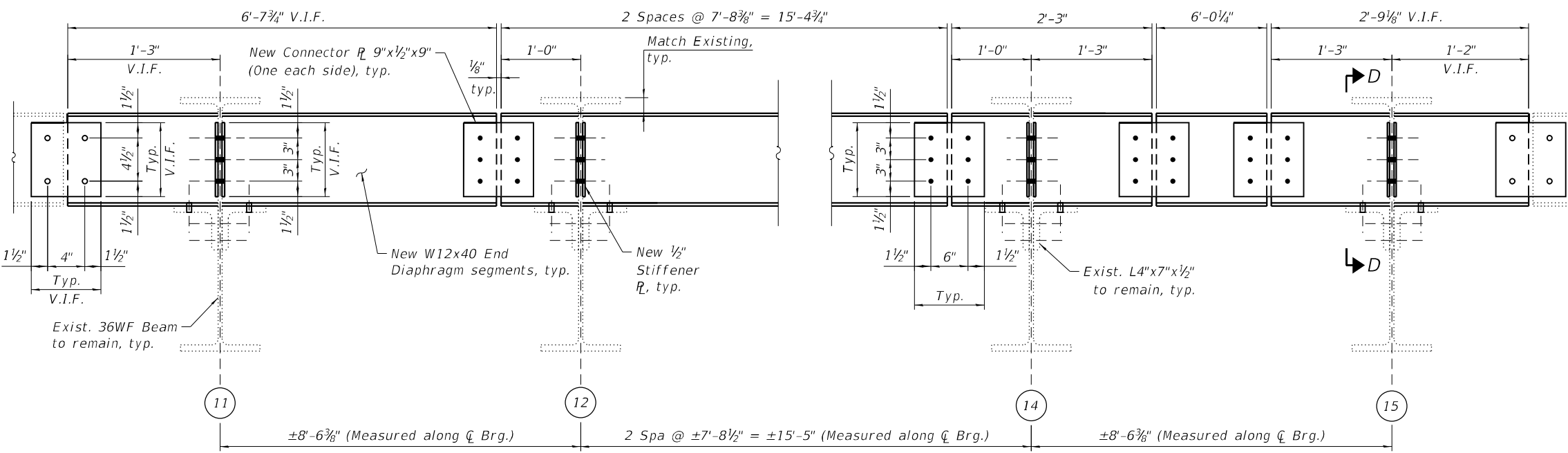
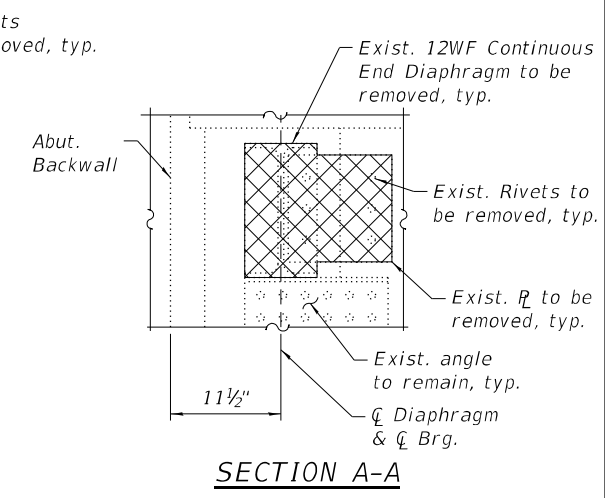
FRAMING PLAN
 SN 016-0134 (REV)

SHEET S06-12 OF S06-18 SHEETS

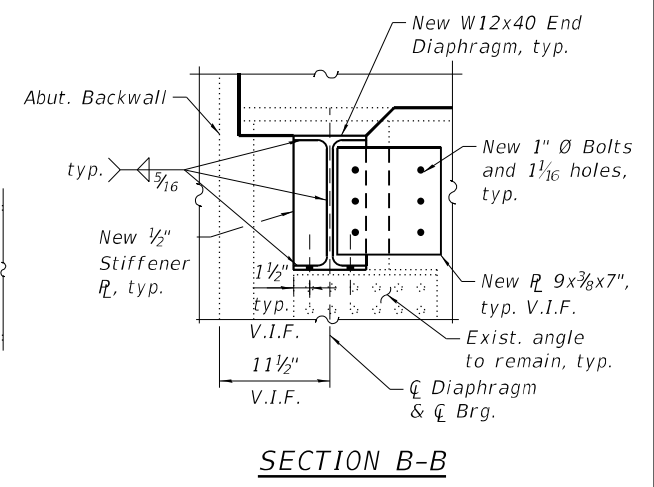
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	611
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K74	



EXISTING CONTINUOUS END DIAPHRAGM REMOVAL
(South Abutment shown)



PROPOSED ENDDIAPHRAGM REPLACEMENT
(South Abutment shown)



NOTES:

1. For location of Diaphragm Repair and Bill of Material, see Sheet S06-12.
2. All proposed diaphragm repair plates and angles shall conform to the requirements of AASHTO M270 Grade 36.
3. All proposed diaphragm repair plates, angles, bolts, nuts and washers shall be paid for as Structural Steel Repair.
4. The cost of all field drilling shall be included in the cost of Structural Steel Repair.
5. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection. Cost shall be included with Structural Steel Repair.
6. All proposed steel dimensions shall be verified in the field prior to fabrication.

LEGEND

- Drill New Bolt hole and Install New Bolt
- ⊗ Structural Steel Removal
- Field drill holes in new steel. Use existing steel as a template to field drill holes in new steel.

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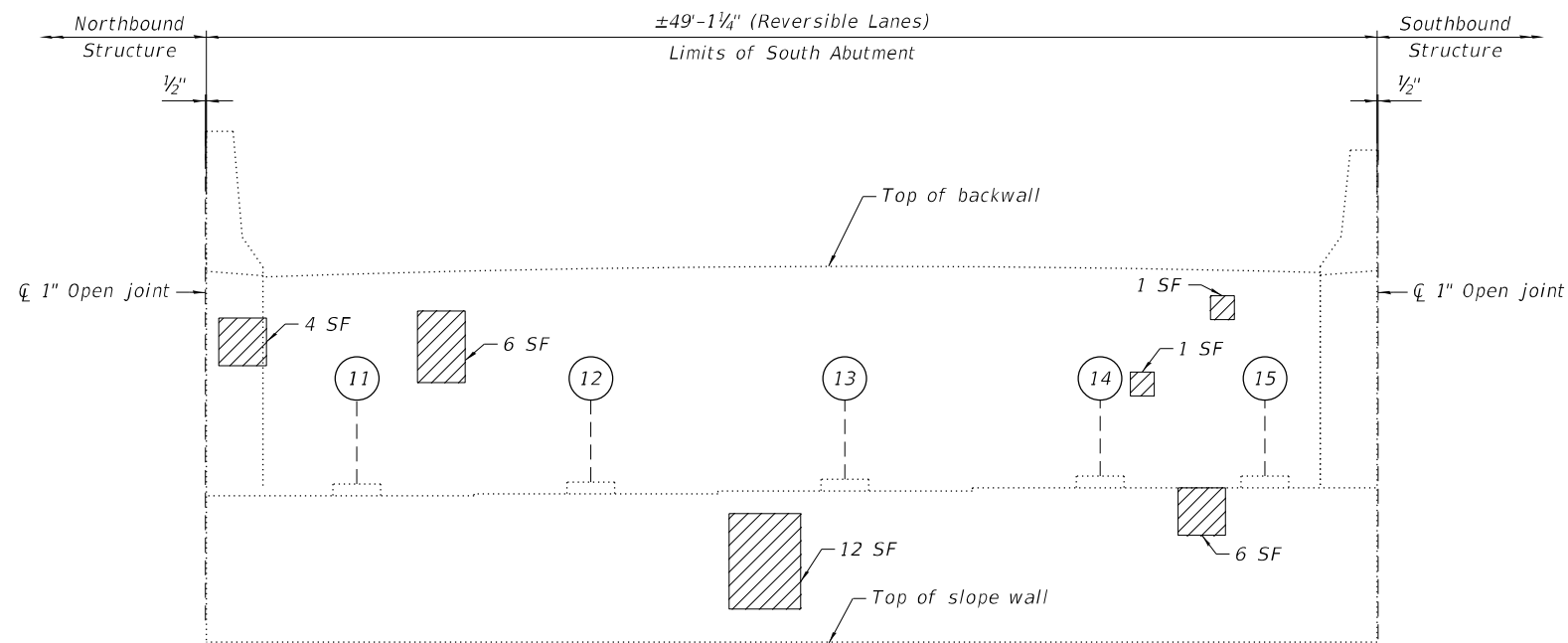
GR&E
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STATE OF ILLINOIS
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STRUCTURAL STEEL REPAIR DETAILS
SN 016-0134 (REV)
 SHEET S06-13 OF S06-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	612
CONTRACT NO. 62K74			ILLINOIS FED. AID PROJECT	



ELEVATION - SOUTH ABUTMENT
(Looking South)

NOTES:

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
2. Concrete Sealer is to be applied to the lower 2 feet of the backwalls and to the seats of the abutments.
3. For Slope Wall Repairs, see Sheet S06-18.

LEGEND

- Structural Repair of Concrete (Depth equal to or less than 5 Inches)
- SF Square Foot

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	155
Structural Repair of Concrete (Depth equal to or less than 5 Inches)	Sq Ft	30

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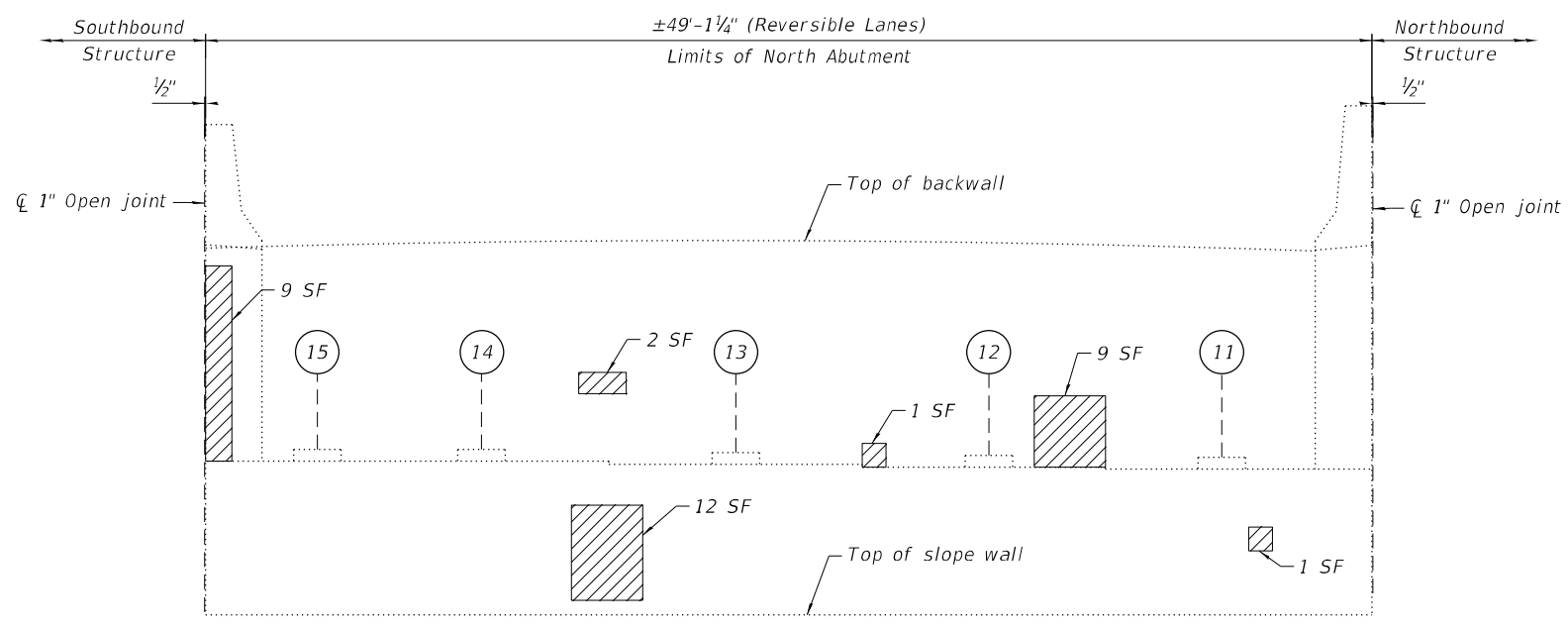
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT REPAIRS
SN 016-0134 (REV)**

SHEET S06-14 OF S06-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	613
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

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ELEVATION - NORTH ABUTMENT
 (Looking North)

NOTES:

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
2. Concrete Sealer is to be applied to the lower 2 feet of the backwalls and to the seats of the abutments.
3. For Slope Wall Repairs, see Sheet S06-18.

LEGEND

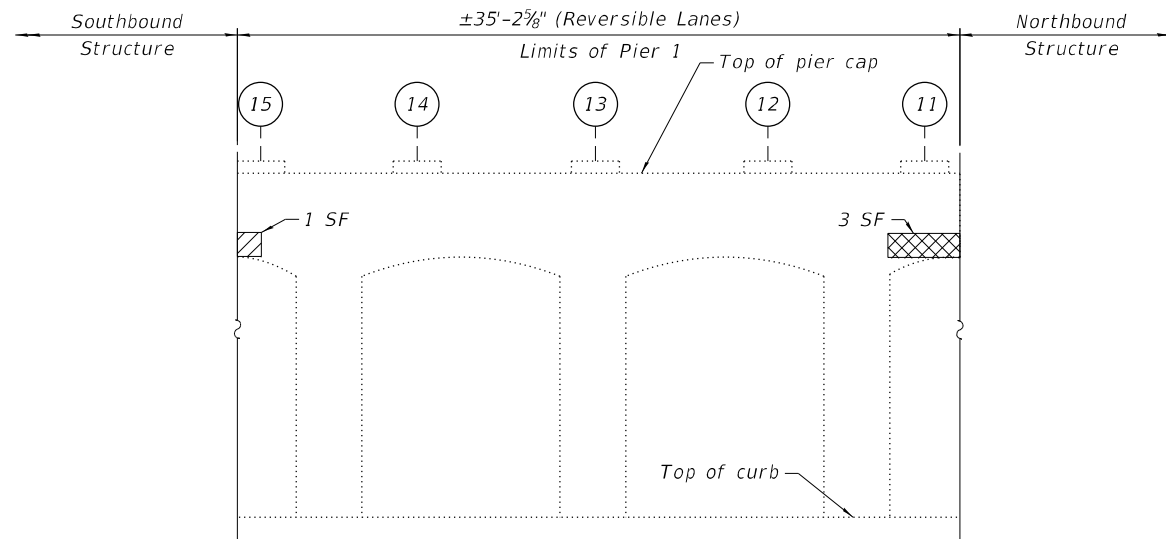
- Structural Repair of Concrete (Depth equal to or less than 5 Inches)
- SF Square Foot

BILL OF MATERIAL

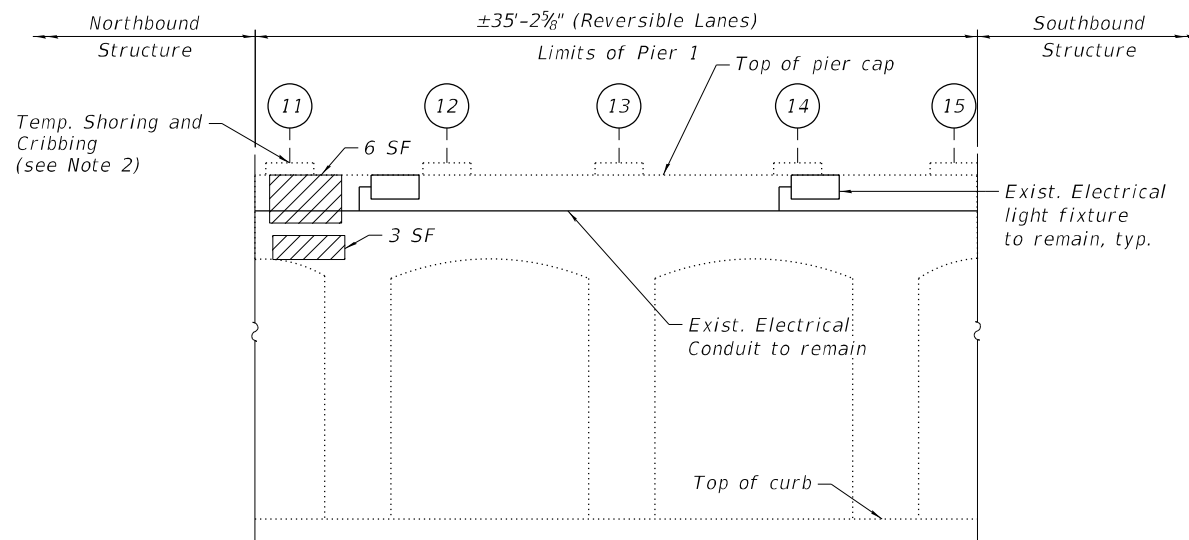
ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	155
Structural Repair of Concrete (Depth equal to or less than 5 Inches)	Sq Ft	34

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PLOT SCALE =	DRAWN - D.C.P.	REVISED -
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	614
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K74	



ELEVATION - PIER 1
(Looking North)



ELEVATION - PIER 1
(Looking South)



EXISTING LIGHTING: PIER 1
(Looking Southeast)

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Temporary shoring and cribbing shall be installed prior to the start of the structural repair of concrete and shall be removed after completing the structural repair of concrete.

LEGEND

- Structural Repair of Concrete (Depth equal to or less than 5 Inches)
- Structural Repair of Concrete (Depth greater than 5 Inches)
- SF Square Foot

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft	10
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq Ft	3
Temporary Shoring and Cribbing	Each	1

SUMMARY OF REACTIONS	
Beam 11	
R DL (k)	100.7
R LL (k)	58.6
R IM (k)	13.9
R Total (k)	173.2

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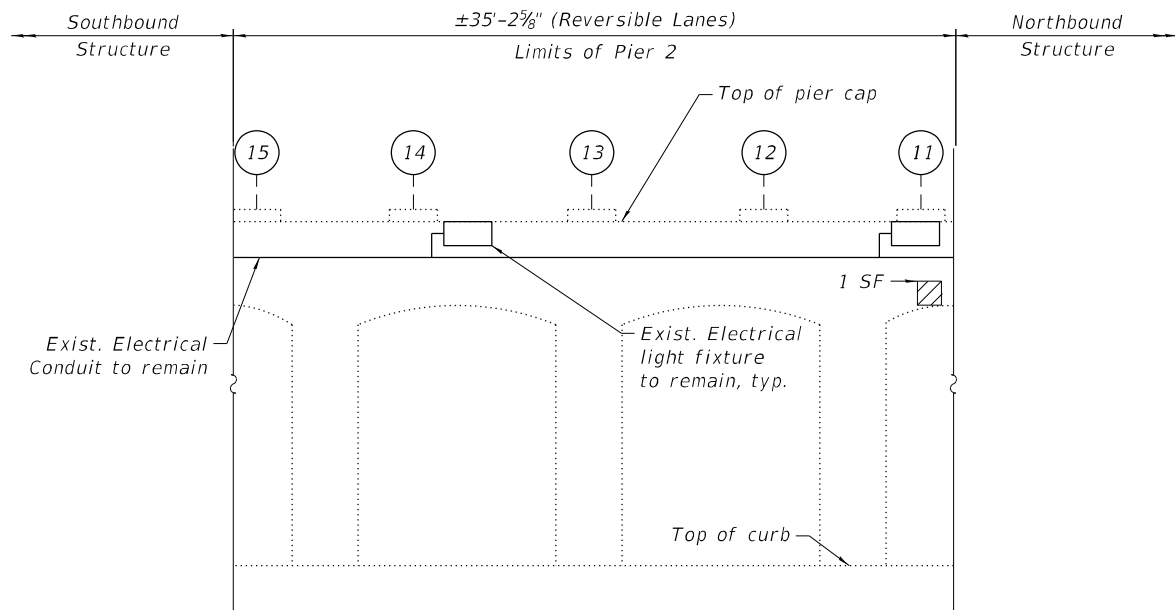
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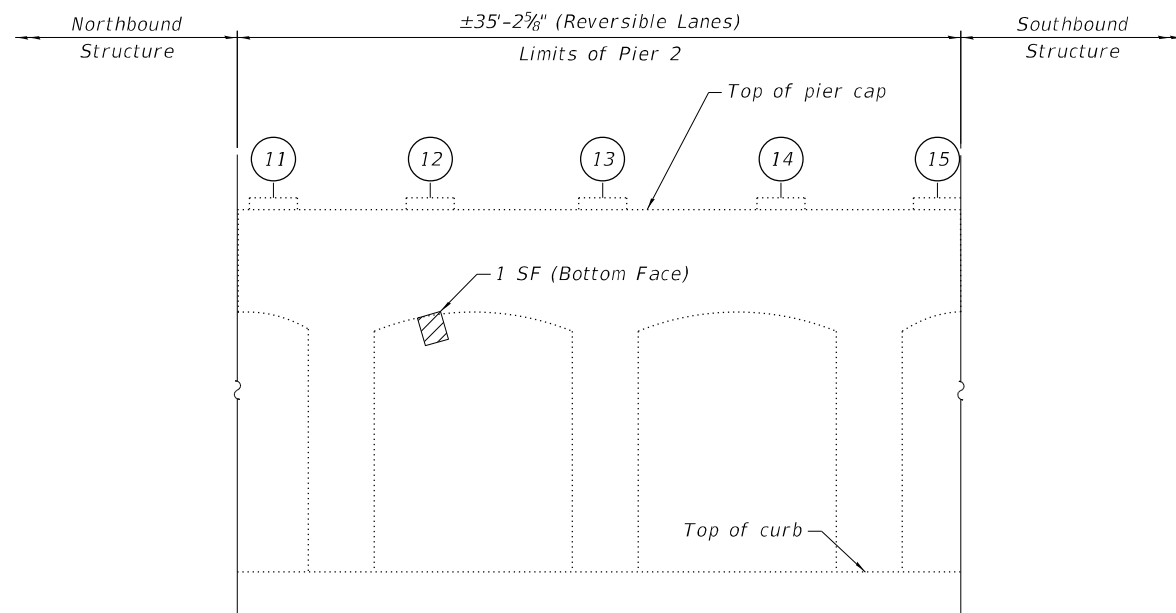
**PIER 1 REPAIRS
SN 016-0134 (REV)**

SHEET S06-16 OF S06-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	615
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K74	



ELEVATION - PIER 2
(Looking North)



ELEVATION - PIER 2
(Looking South)



EXISTING LIGHTING: PIER 2
(Looking Northwest)

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

LEGEND

- Structural Repair of Concrete (Depth equal to or less than 5 Inches)
- SF Square Foot

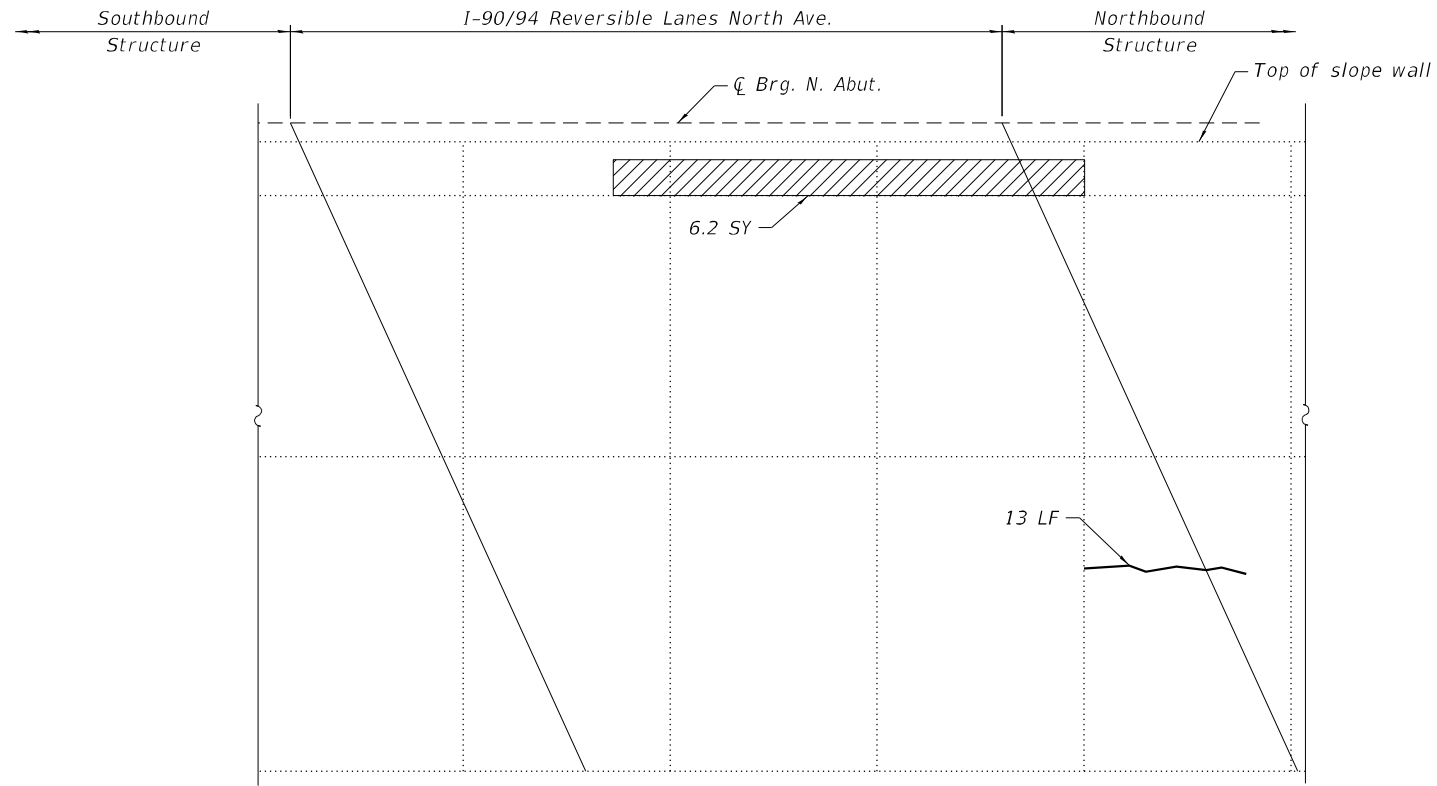
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth equal to or less than 5 Inches)	Sq Ft	2

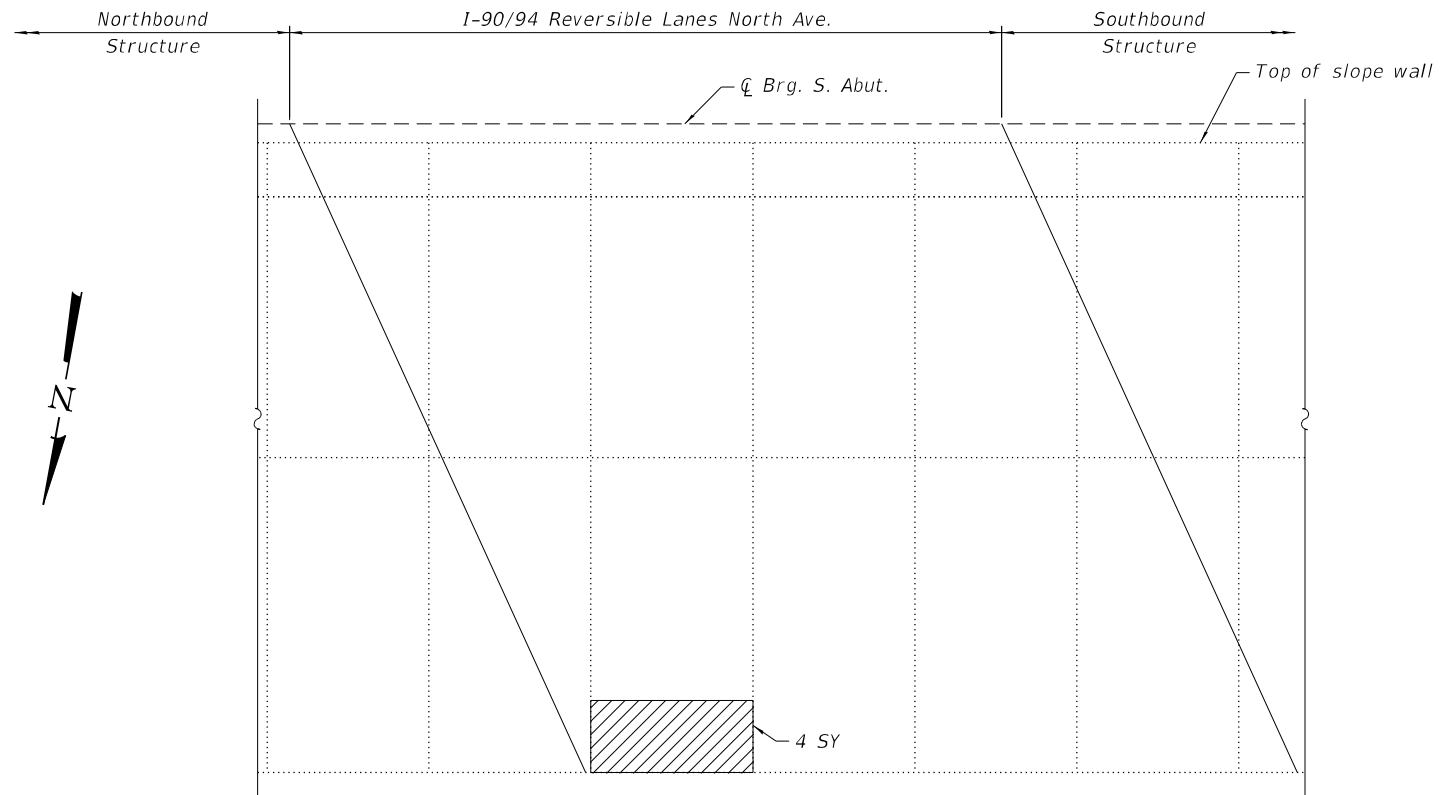
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	616
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K74	



NORTH SLOPE WALL - PLAN
(Looking North)



SOUTH SLOPE WALL - PLAN
(Looking South)

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq ft

LEGEND

- Slope Wall Removal and Replacement with 4 Inch Slope Wall
- SY Square Yard
- LF Linear Foot
- Slope Wall Crack Sealing

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Porous Granular Embankment	Cu Yd	11
Slope Wall Removal	Sq Yd	11
Slope Wall 4 Inch	Sq Yd	11
Slope Wall Crack Sealing	Foot	13

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GRāEF
8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631; (773) 399-0112

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SLOPE WALL REPAIRS
SN 016-0134 (REV)**

SHEET S06-18 OF S06-18 SHEETS

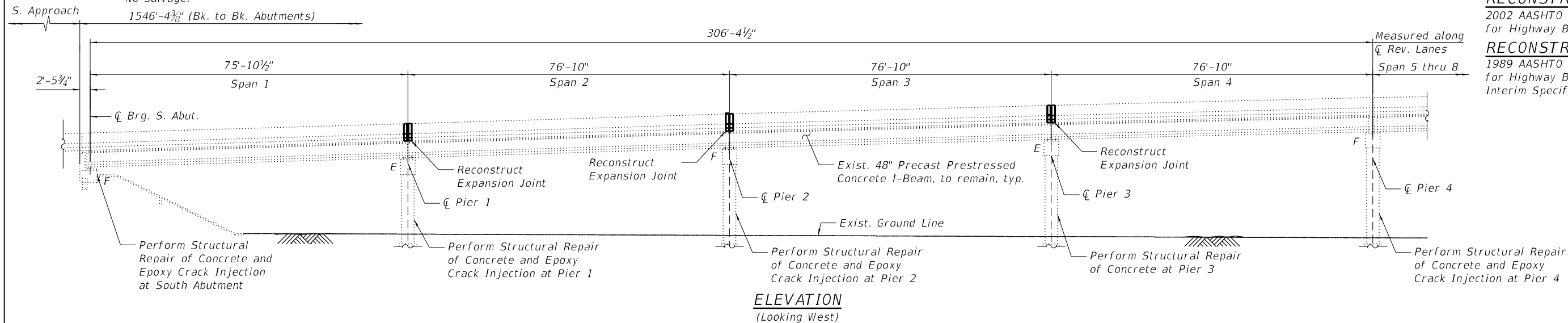
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90	2020-004-BR	COOK	1492	617
			CONTRACT NO. 62K74	
		ILLINOIS	FED. AID PROJECT	

Existing Structure: The Reversible Lanes for S.N. 016-0133 was originally built in 1959 and reconstructed in 1991. The structure has a back-to-back abutment length of 1546'-4³/₈" and an out-to-out deck width of 36'-11". The superstructure consists of a 7¹/₂" thick reinforced concrete deck supported on PPC I-beams and various built-up steel beams. The substructure consists of reinforced concrete abutments on piles and multi-column piers on caissons.

The reversible lanes will be closed to traffic during construction.

No salvage.

1546'-4³/₈" (Bk. to Bk. Abutments)



ELEVATION
(Looking West)

NOTES:

1. All stations are to the CL I-90/94 Rev Roadway and taken from existing plans.
2. No Future Wearing Surface is allowed.

DESIGN SPECIFICATION

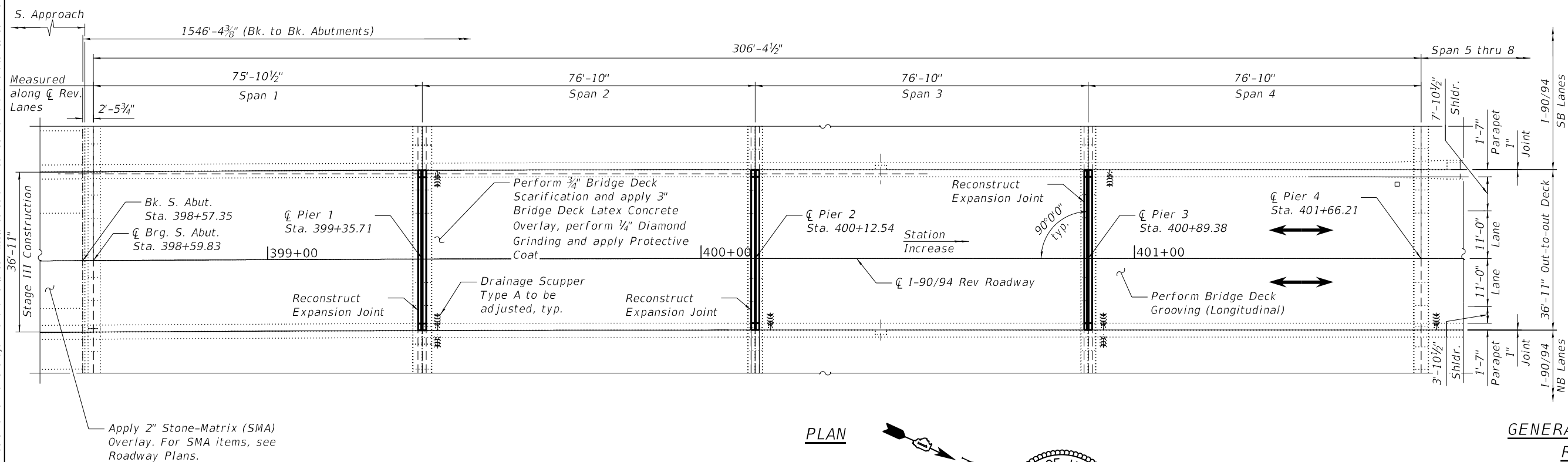
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

RECONSTRUCTION 2013

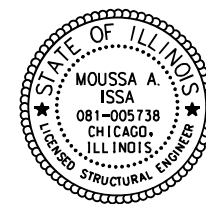
2002 AASHTO Standard Specifications for Highway Bridges

RECONSTRUCTION 1991

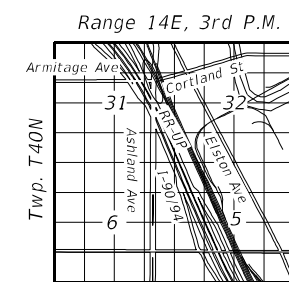
1989 AASHTO Standard Specifications for Highway Bridges with 1990 & 1991 Interim Specifications



PLAN



Signed Moussa A. Issa
Dr. Moussa A. Issa, S.E., Il. Lic. No. 081-005738
Expires 11-30-2024
Date 12/05/2022



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

REV I-90/94 OVER

RR-UP & ASHLAND AVE

F.A.I. ROUTE 90/94

SECTION 2020-004-BR

COOK COUNTY

STATION 398+59.83

S.N. 016-0133 (REV)

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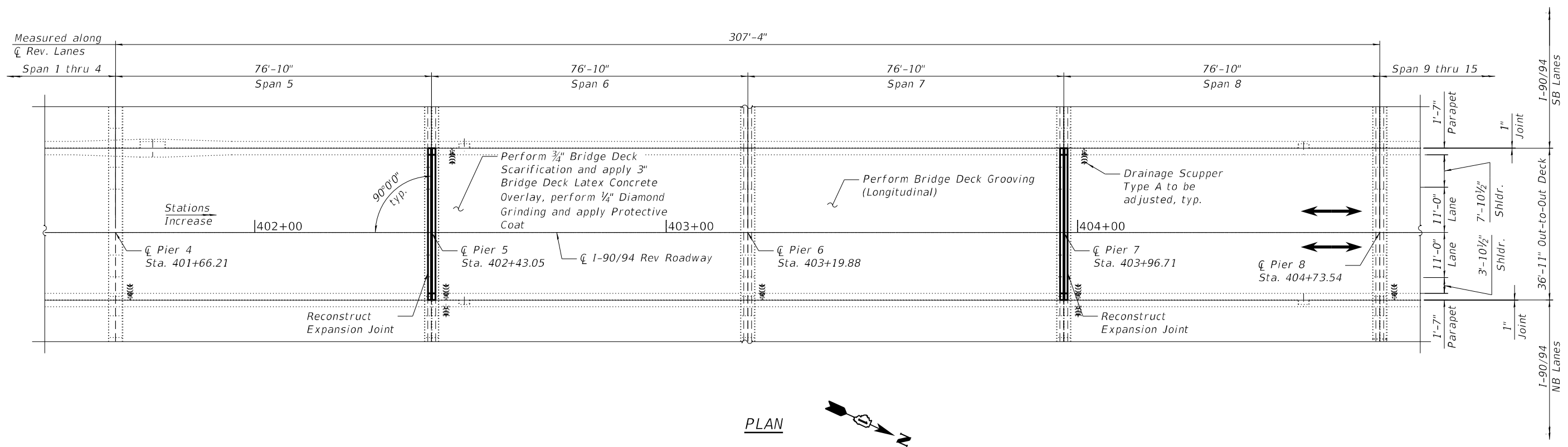
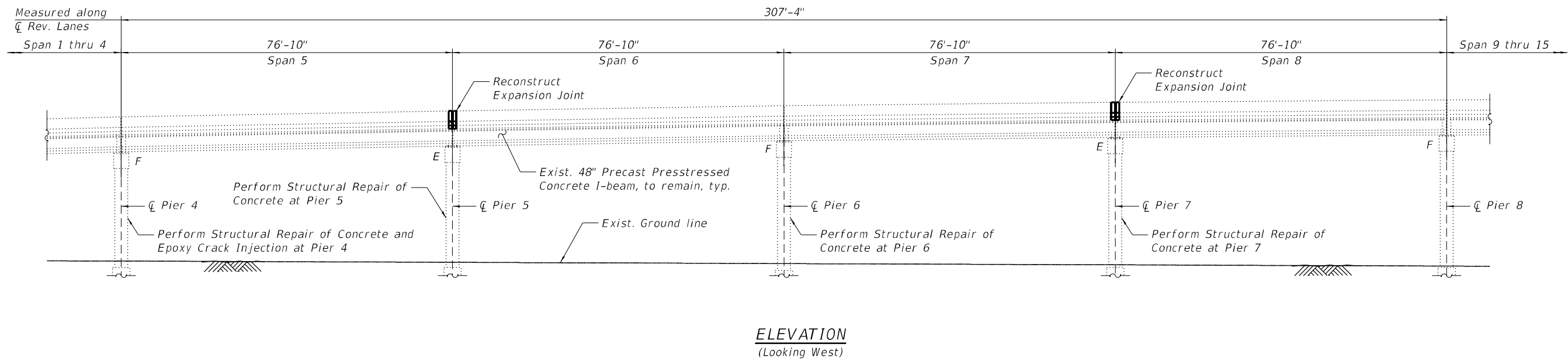
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION (SHEET 1 OF 5)
STRUCTURE NO. 016-0133 (REV)

SHEET S08-01 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

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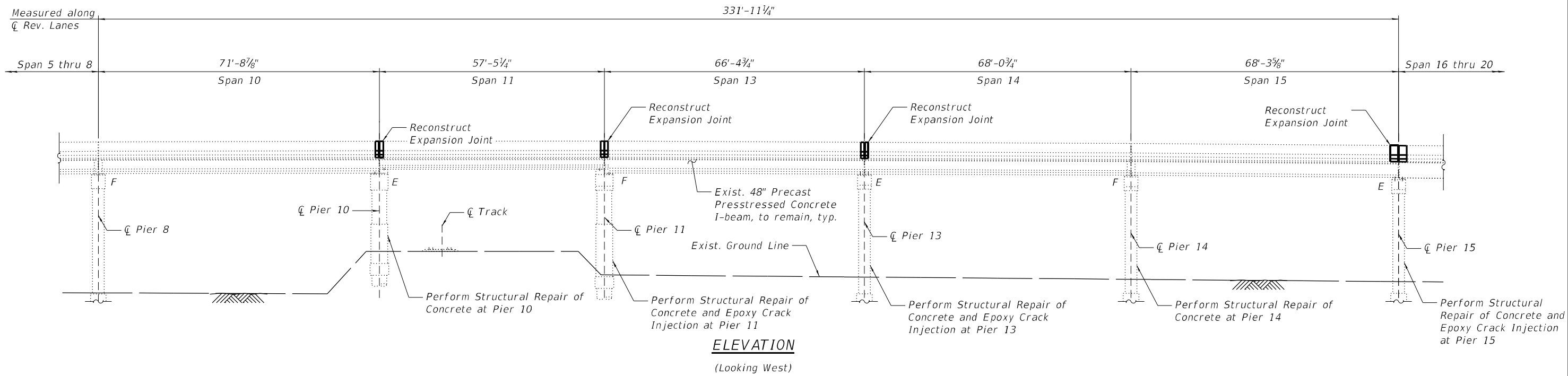
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 DEPARTMENT OF TRANSPORTATION**

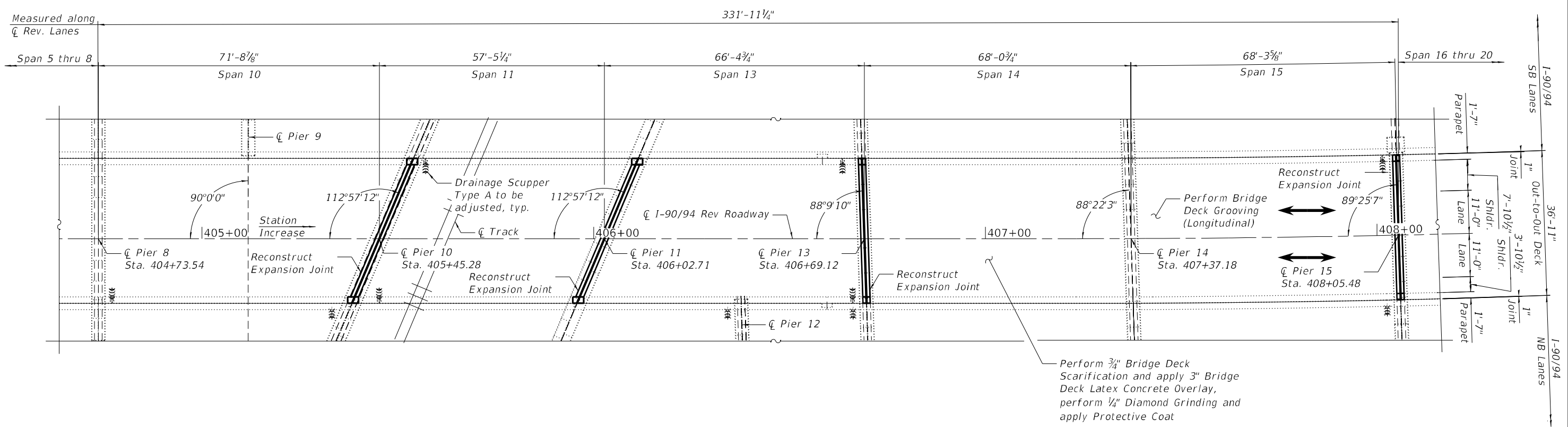
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 STRUCTURE NO. 016-0133 (REV)**

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90/94	2020-004-BR	COOK	1492	619
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

SHEET S08-02 OF S08-78 SHEETS



ELEVATION
(Looking West)



PLAN

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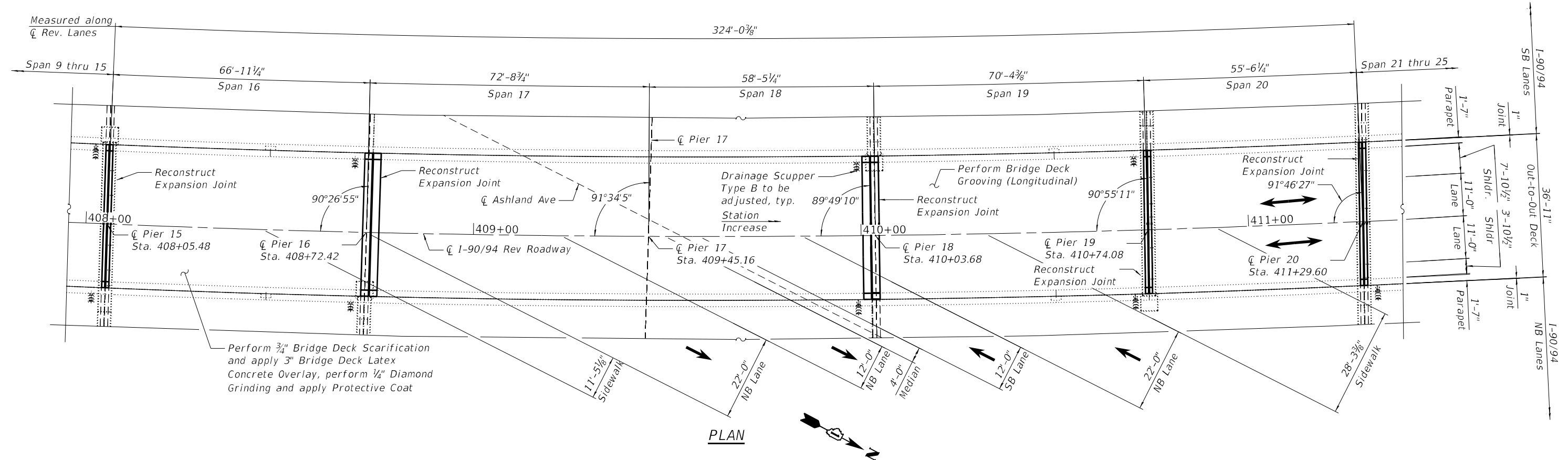
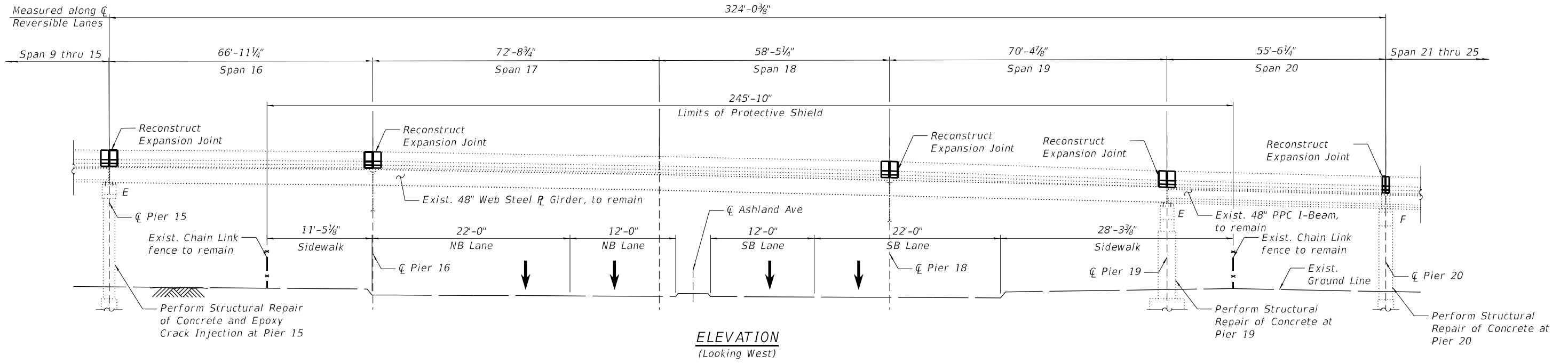
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION (SHEET 3 OF 5)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-03 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	620
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



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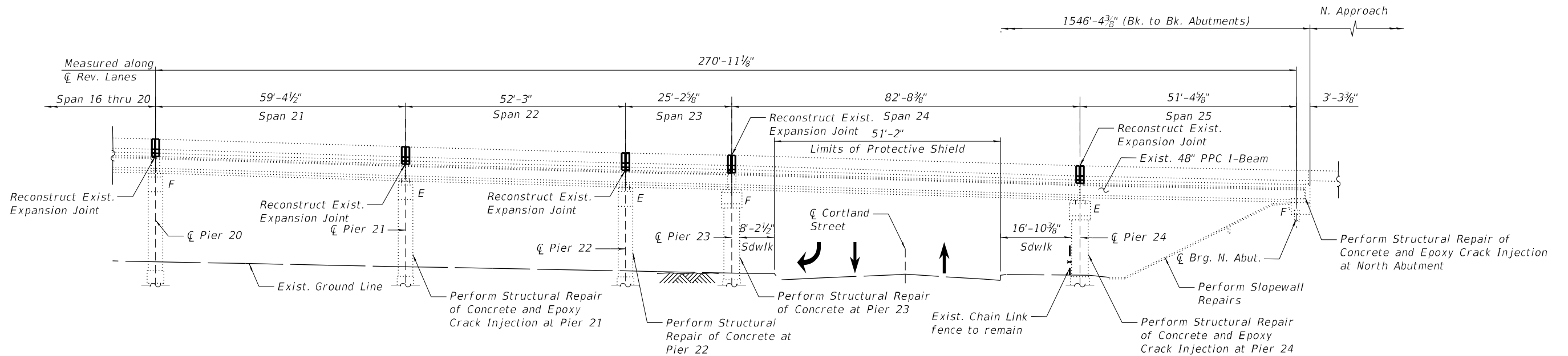
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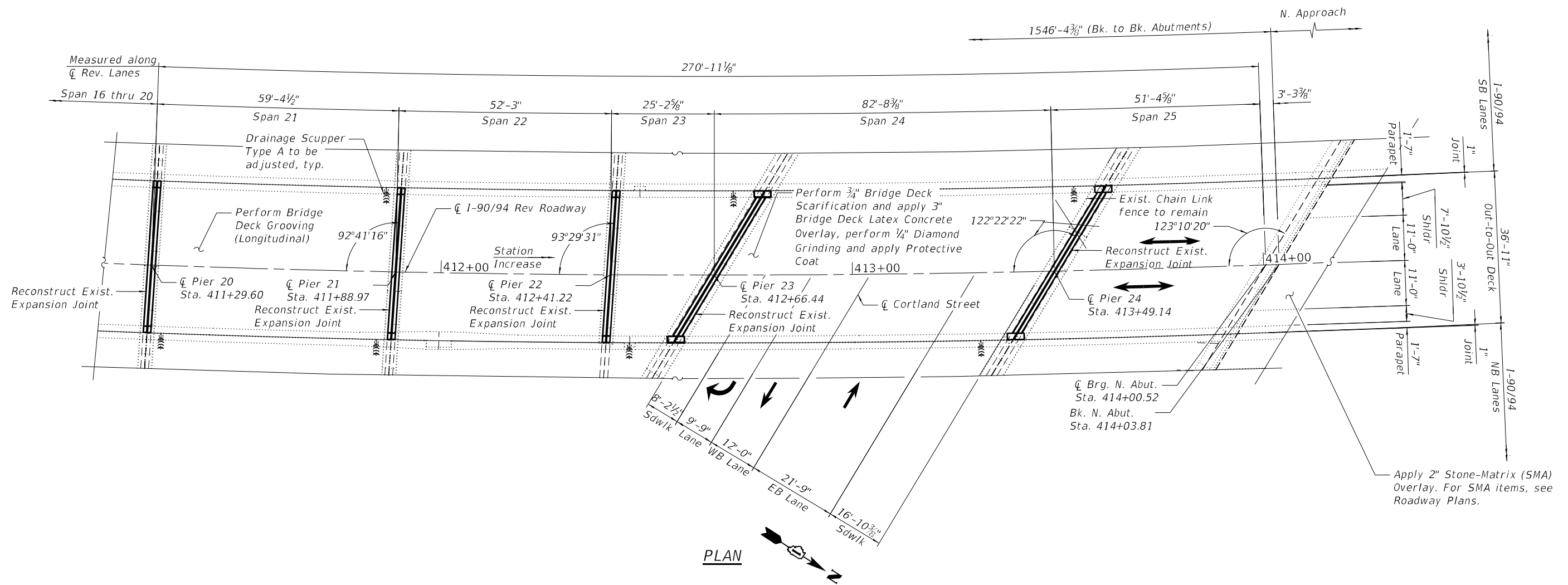
GENERAL PLAN AND ELEVATION (SHEET 4 OF 5)
STRUCTURE NO. 016-0133 (REV)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	621
CONTRACT NO. 62K74			ILLINOIS FED. AID PROJECT	

SHEET S08-04 OF S08-78 SHEETS



ELEVATION
(Looking West)



PLAN

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION (SHEET 5 OF 5)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-05 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	622
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- 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.
- Bars noted thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bars per line.
- All exposed concrete edges shall have a 3/4"x45° chamfer except where shown otherwise.
- 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. Cost included with Concrete Removal.
- For SMA overlay on Approach Slab, see Roadway Sheets.
- Protective Coat shall be applied to the top of reconstructed transverse joint areas, top and inside faces of parapets, and top of Latex Concrete Overlay.
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.
- Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete. 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" deep shall be identified and reported to the Bureau of Bridges and Structures for further dispositions. 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.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Adjacent I-90/94 NB and SB bridges are not shown throughout the plans for clarity.
- The Contractor shall take the necessary precautions for the protection of passing vehicles, bicycles and pedestrians from falling objects and/or materials until completion of work.
- The Contractor is responsible to remove, support and reinstall all existing electrical conduits interfering with the work. See special provision "Protection and Maintenance of Existing Underpass Luminaires".
- The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- The Contractor is responsible to protect the existing conduit embedded in the parapet during concrete removal and construction. Any damage to the existing conduit shall be repaired by the Contractor at no additional cost to the Department.
- Where underpass lighting is present on the structure, the Contractor shall adjust the Protective Shielding to ride above the existing lighting fixtures in order to maintain the existing level of lighting on the roadway underneath. Details shall be approved by the Engineer before installation.
- Any adjustment done to the Protective Shield System must not change the load carrying capacity (or containment specifications) as indicated in the Standard Specifications. Cost of adjusting shielding is including in the cost of Protective Shield.
- The Contractor shall contact Chandra Libby, the Director of City of Chicago Department of Family Support Services (DFSS) at 312-746-5443 or Chandra.Libby@cityofchicago.org to coordinate the relocation of persons and their personal belongings under the bridges within the areas bounded by the temporary chain-link-fence.
- The intent of the temporary fence is to deny access of any unauthorized personnel under the bridge during construction. Actual fence installations may vary from what is shown on the plans. All fence installations must be approved by the Engineer.
- Concrete Sealer shall be applied to the designated areas of the abutments and piers.
- Prior to the application of the Concrete Sealer, the Contractor shall clean all existing debris from the abutment and pier 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 cleanings included in the cost of Concrete Sealer.

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S08-33	Pier 19 Joint Removal & Replacement (Sht. 1 of 2)
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S08-35	Pier 20 Joint Removal & Replacement (Sht. 1 of 2)
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S08-75	Piers 20 and 21 Repairs
S08-76	Piers 22 and 23 Repairs
S08-77	Pier 24 Repairs
S08-78	North Slope Wall Repairs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu Yd	-	0.4	0.4
Concrete Removal	Cu Yd	35.0	-	35.0
Slope Wall Removal	Sq Yd	-	1.2	1.2
Protective Shield	Sq Yd	1,494	-	1,494
Concrete Superstructure	Cu Yd	42.4	-	42.4
Protective Coat	Sq Yd	7,325	-	7,325
Reinforcement Bars, Epoxy Coated	Pound	10,000	-	10,000
Slope Wall 4 Inch	Sq Yd	-	1.2	1.2
Preformed Joint Seal 2 1/2"	Foot	1,590	-	1,590
Preformed Joint Strip Seal	Foot	646	-	646
Anchor Bolts, 1"	Each	20	-	20
Concrete Sealer	Sq Ft	-	-	2,331
Epoxy Crack Injection	Foot	-	92	92
Slope Wall Crack Sealing	Foot	-	27	27
Acrylic Coating	Sq Yd	987	-	987
Fiber Wrap	Sq Ft	8,876	-	8,876
Protect And Maintain Existing Underpass Luminaire	L Sum	0.022	-	0.022
Bridge Drainage System Repair	Foot	-	27	27
Bridge Deck Grooving (Longitudinal)	Sq Yd	3,774	-	3,774
Structural Steel Repair	Pound	20	-	20
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	5,653	-	5,653
Cleaning And Painting Steel Bridge No. 1	L Sum	1.0	-	1.0
Cleaning Drainage System	L Sum	0.20	-	0.20
Bridge Deck Scarification 3/4"	Sq Yd	5,653	-	5,653
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	-	1,180	1,180
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	-	68	68
Deck Slab Repair (Full Depth, Type 1)	Sq Yd	1.3	-	1.3
Drainage Scuppers To Be Adjusted	Each	23	-	23
Diamond Grinding (Bridge Section)	Sq Yd	5,792	-	5,792
Maintenance Of Lighting System	Cal Mo	6	-	6
Precast Prestressed Concrete I-Beam Repair	Sq Ft	666	-	666
Temporary Shoring And Cribbing	Each	-	8	8

SCOPE OF WORK

- Provide Protective Shield within limits indicated on the plans.
- Scarify 3/4" from the bridge deck slab.
- Perform Deck Slab Repairs and adjust existing scuppers and inlets as required.
- Adjust drain scuppers types A and B and clean all deck drains.
- Repair the existing closed drainage system.
- Reconstruct Expansion Joints at Piers 1, 2, 3, 5, 7, 10, 11, 13, 15, 16, 18, 19, 20, 21, 22, 23, 24 and install new preformed joint strip seals.
- Apply a 3" Bridge Deck Latex Concrete Overlay on Bridge Deck.
- Perform 1/4" Diamond Grinding to top of bridge deck.
- Apply 2" Stone-Matrix Asphalt (SMA) Overlay on the Approach Slabs, see Roadway Plans for SMA.
- Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.
- Apply protective coat to the top of reconstructed transverse joint areas, top and inside faces of parapets and top of Latex Concrete Overlay.
- Fiber wrap repair of all spalling, delamination, or failed existing beam repairs beyond the front face of the bearing of PPC beams.
- Perform structural concrete repairs and epoxy crack injection for the abutments and piers as noted on the plans.
- Perform Slope Wall repairs.
- Install 2 1/2" PJS along top of parapet between I-90/94 Southbound and Reversible lanes.

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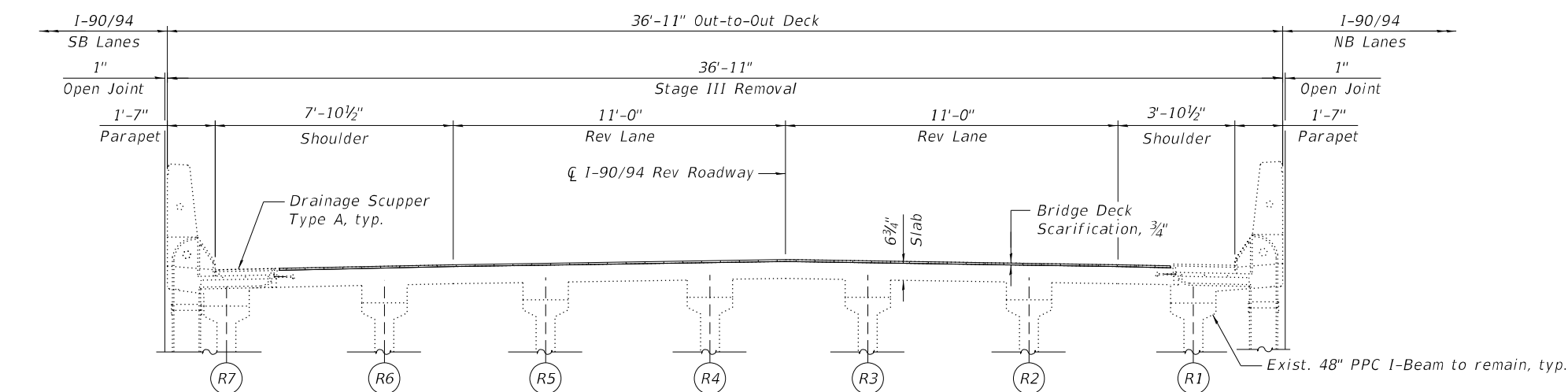
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

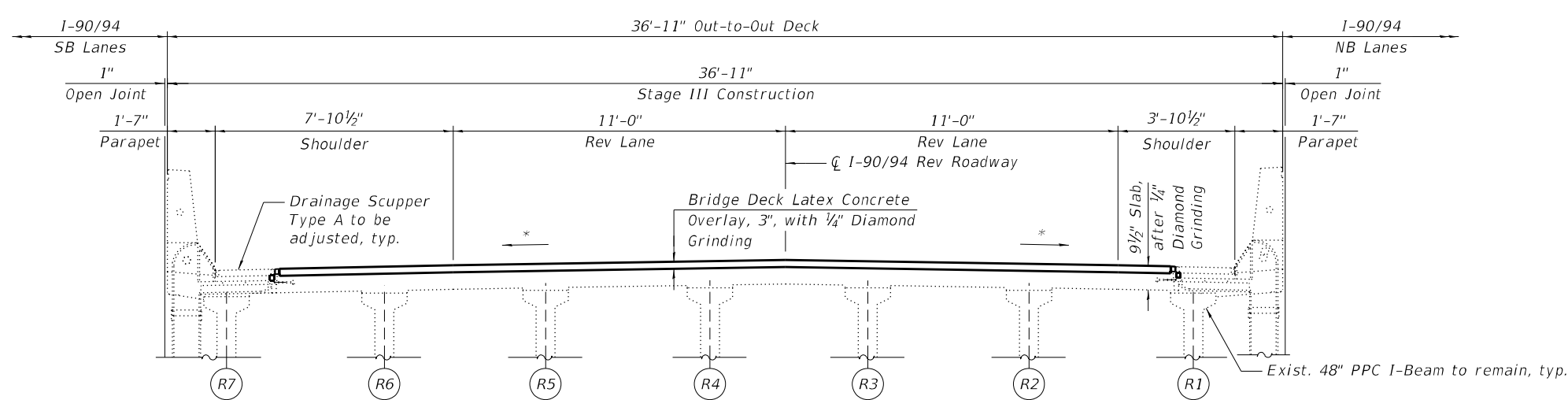
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STRUCTURE NO. 016-0133 (REV)**

SHEET S08-06 OF S08-78 SHEETS

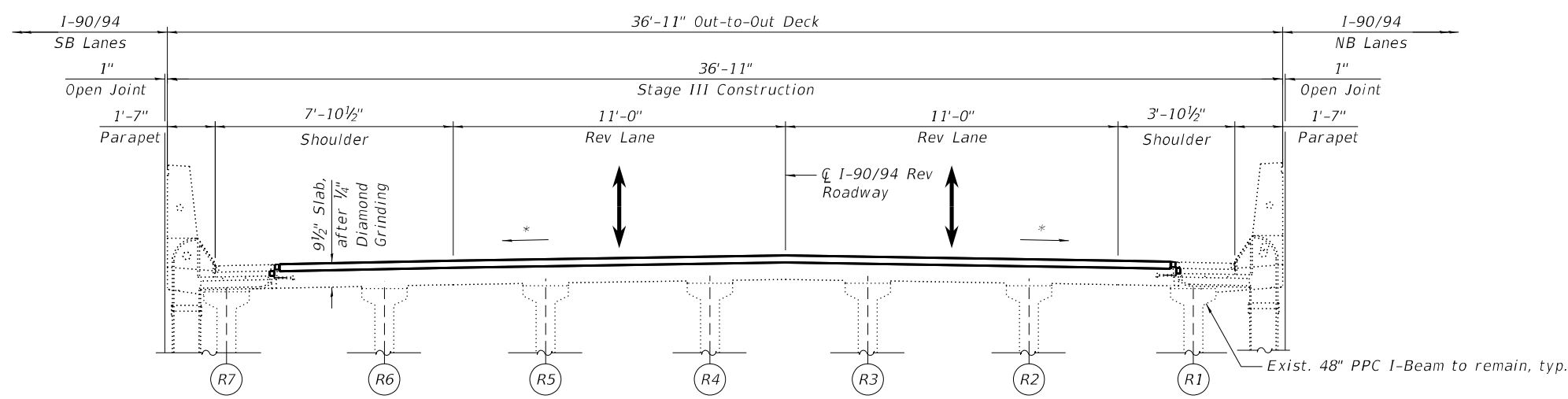
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90/94	2020-004-BR	COOK	1492	623
CONTRACT NO. 62K74				
		ILLINOIS	FED. AID PROJECT	



STAGE III REMOVAL
 (At PPC Beams)
 (Looking North)
 (Spans 1 to 5, & 20 to 25)



STAGE III CONSTRUCTION
 (At PPC Beams)
 (Looking North)
 (Spans 1 to 5, & 20 to 25)



FINAL CROSS SECTION
 (At PPC Beams)
 (Looking North)
 (Spans 1 to 5, & 20 to 25)

* Slope varies. Match existing deck slope.

STAGE III REMOVAL

1. Perform $\frac{3}{4}$ " Bridge Deck Scarification.
2. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.
3. Remove portions of bridge concrete deck adjacent to expansion joints at the Piers, as shown in plans.
4. Perform Temporary Shoring and Cribbing at locations shown in the plans.

STAGE III CONSTRUCTION

1. Perform bridge deck slab repairs.
2. Reconstruct transverse expansion joints and install new Preformed Joint Strip Seals within the limits of Stage I construction.
3. Perform Structural Repair of Concrete and Epoxy Crack Injection for the abutments and piers.
4. Apply 3" bridge deck latex concrete overlay.
5. Perform $\frac{1}{4}$ " Diamond Grinding to bridge deck.
6. Perform Bridge Deck Grooving (Longitudinal) for the 3" Bridge Deck Latex Concrete Overlay.
7. Apply 2" Stone-Matrix Asphalt (SMA) Overlay to the approach pavement and taper into existing roadway. See Roadway Plans.
8. Apply protective coat to top and inside faces of east and west parapets, reconstructed transverse pier expansion joints and to the surfaces of the new overlay.
9. Perform Slope Wall repairs as shown in the plans.
10. Install $2\frac{1}{2}$ " PJS along top of parapet between I-90/94 Southbound and Reversible lanes.

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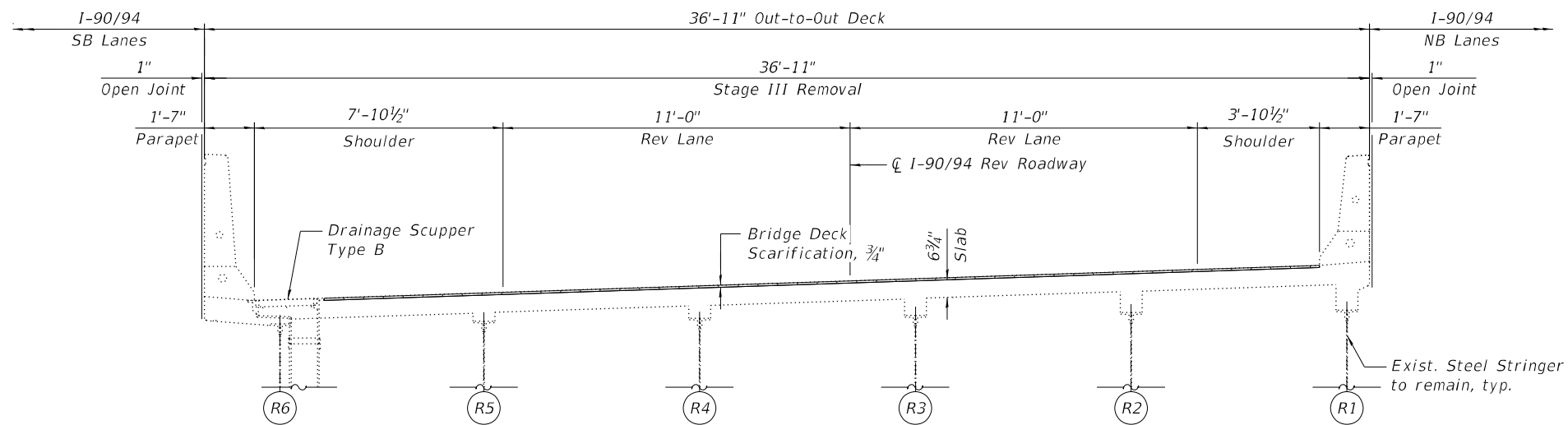
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE I CONSTRUCTION (SHEET 1 OF 2)
 STRUCTURE NO. 016-0133 (REV)**

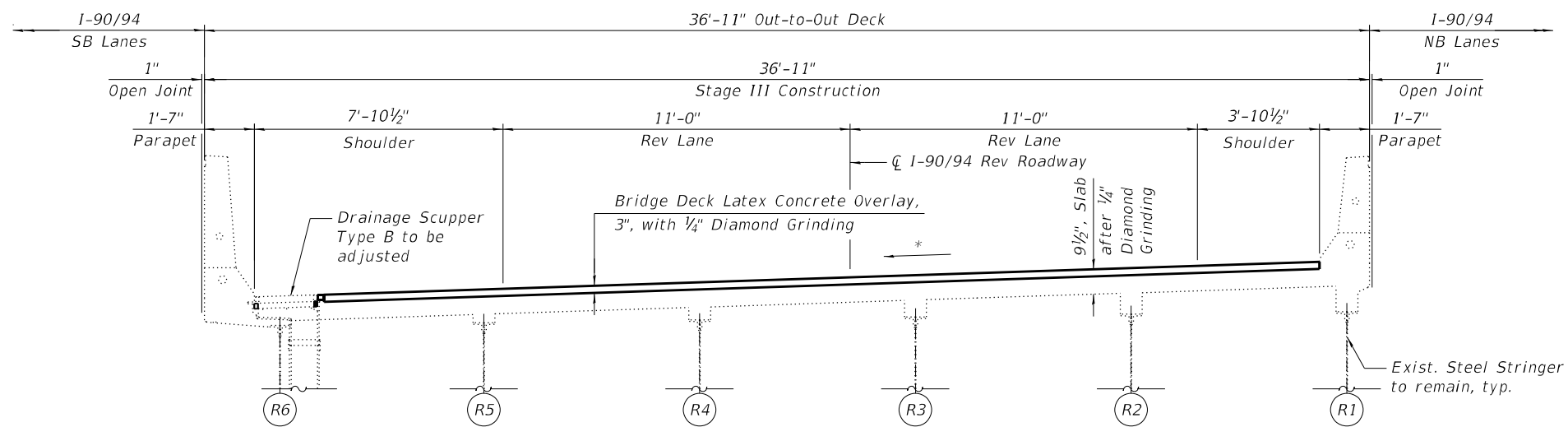
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90/94	2020-004-BR	COOK	1492	624
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

SHEET S08-07 OF S08-78 SHEETS



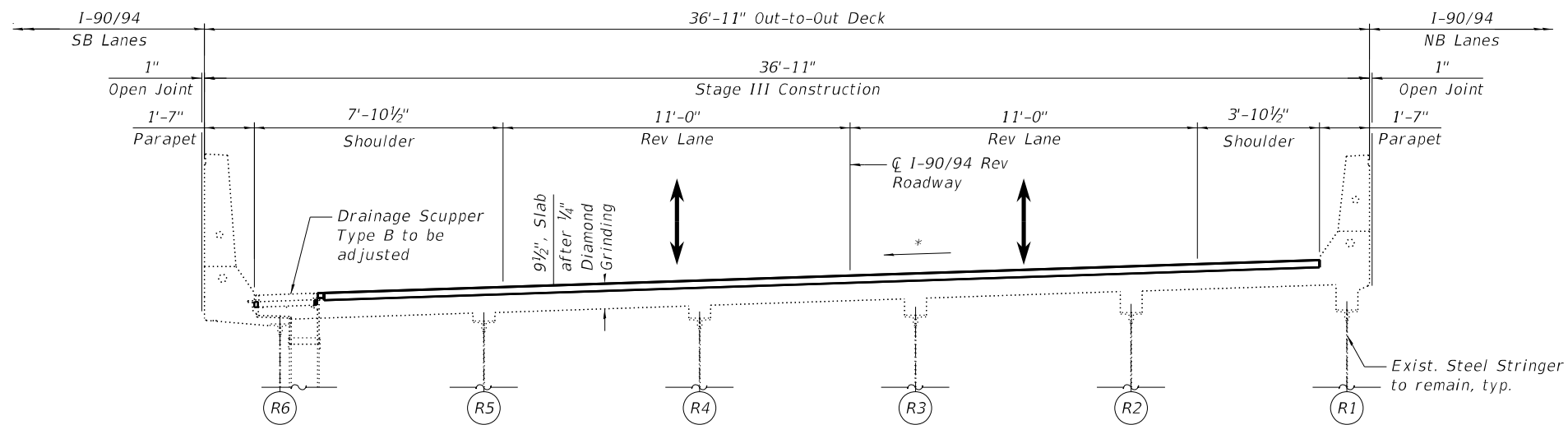
STAGE III REMOVAL

(At Steel Beams- Spans 16 thru 19)
(Looking North)



STAGE III CONSTRUCTION

(At Steel Beams- Spans 16 thru 19)
(Looking North)



FINAL CROSS SECTION

(At Steel Beams- Spans 16 thru 19)
(Looking North)

STAGE III REMOVAL

1. Perform 3/4" bridge deck scarification.
2. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.
3. Remove portions of bridge concrete deck adjacent to expansion joints at the Piers, as shown in plans.
4. Perform Temporary Shoring and Cribbing at locations shown in the plans.

STAGE III CONSTRUCTION

1. Perform bridge deck slab repairs.
2. Reconstruct transverse expansion joints and install new Preformed Joint Strip Seals.
3. Perform Structural Repair of Concrete and Epoxy Crack Injection for the abutments and piers.
4. Apply 3" bridge deck latex concrete overlay.
5. Perform 1/4" Diamond Grinding to bridge deck.
6. Perform bridge deck grooving (Longitudinal) for the 3" bridge deck latex concrete overlay.
7. Apply 2" Stone-Matrix Asphalt (SMA) Overlay to the approach pavement and taper into existing roadway. See Roadway Plans.
8. Apply protective coat to top and inside faces of east and west parapets, reconstructed transverse pier expansion joints and to the surfaces of the new overlay.
9. Perform Slope Wall repairs as shown on the plans.
10. Install 2 1/2" PJS along top of parapet between I-90/94 Southbound and Reversible lanes.

* Slope varies. Match existing deck slope.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

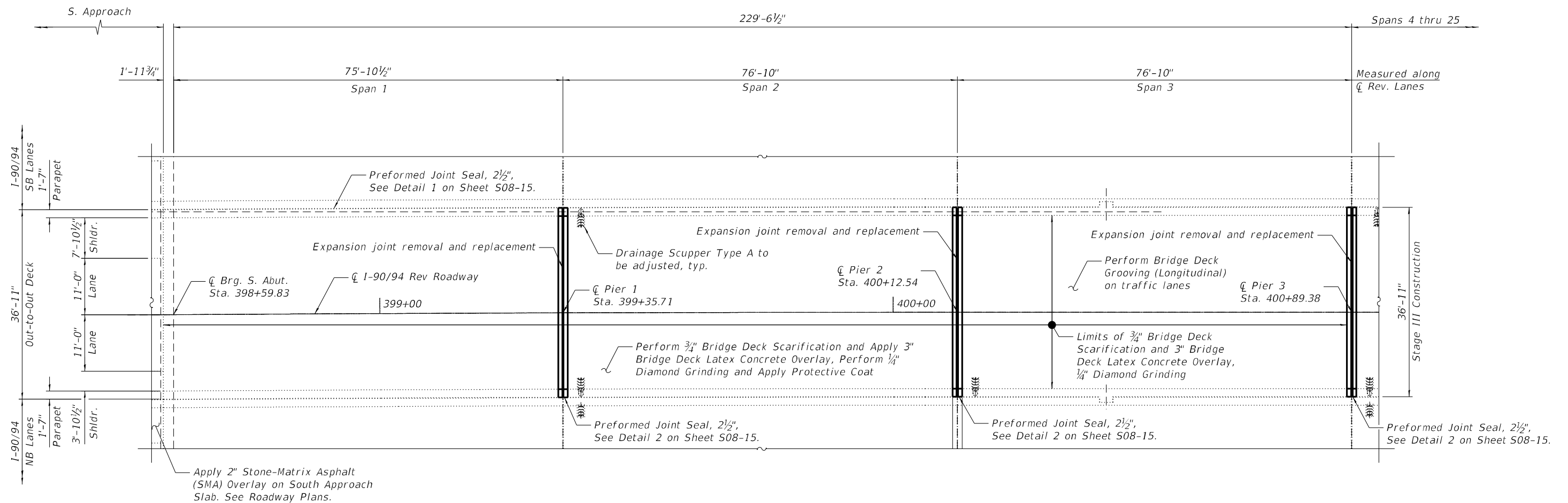
**STAGE I CONSTRUCTION (SHEET 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-08 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	625
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq Yd	1062
Preformed Joint Seal 2 1/2"	Foot	237
Bridge Deck Grooving (Longitudinal)	Sq Yd	566
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	852
Bridge Deck Scarification 3/4"	Sq Yd	852
Diamond Grinding (Bridge Section)	Sq Yd	867



DECK PLAN



NOTES:

1. Area of Deck Repair shown are estimated. The Engineer shall show actual locations of deck repairs at the time of construction.
2. For bridge deck final cross section, see Sheets S08-07 and S08-08.
3. For transverse joint removal and reconstruction details, see sheet S08-18 thru S08-43.
4. Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.
5. Perform 1/4" Diamond Grinding to top of bridge deck.
6. Protective Coat shall be applied to the top of reconstructed transverse joints, top and inside face of parapets and top of latex concrete overlay.
7. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.
8. The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

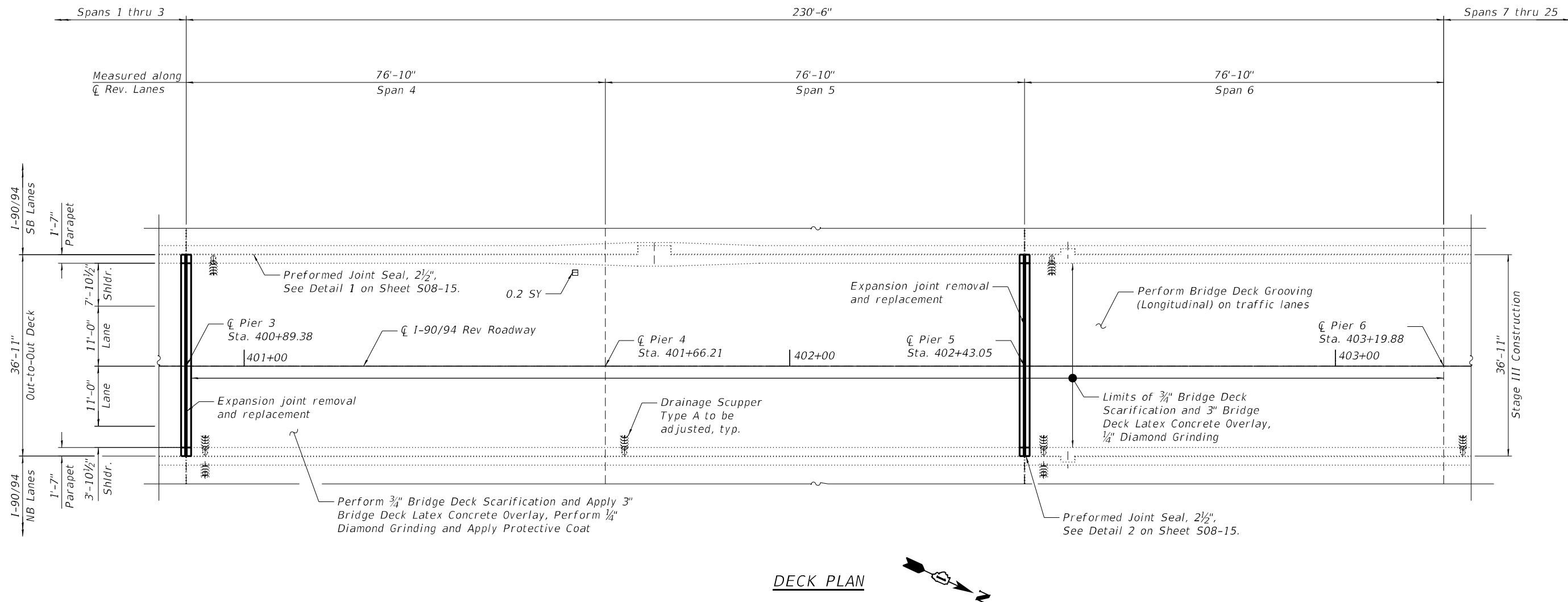
**DECK REPAIR PLAN (SHEET 1 OF 7)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-09 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	626
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq Yd	1066
Prefomed Joint Seal 2 1/2"	Foot	233
Bridge Deck Grooving (Longitudinal)	Sq Yd	563
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	855
Bridge Deck Scarification 3/4"	Sq Yd	855
Deck Slab Repair (Full Depth, Type I)	Sq Yd	0.2
Diamond Grinding (Bridge Section)	Sq Yd	864



DECK PLAN

NOTE:

- For Notes, see Sheet S08-09.

LEGEND:

	Deck Slab Repair (Full Depth, Type I)
SY	Square Yard

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

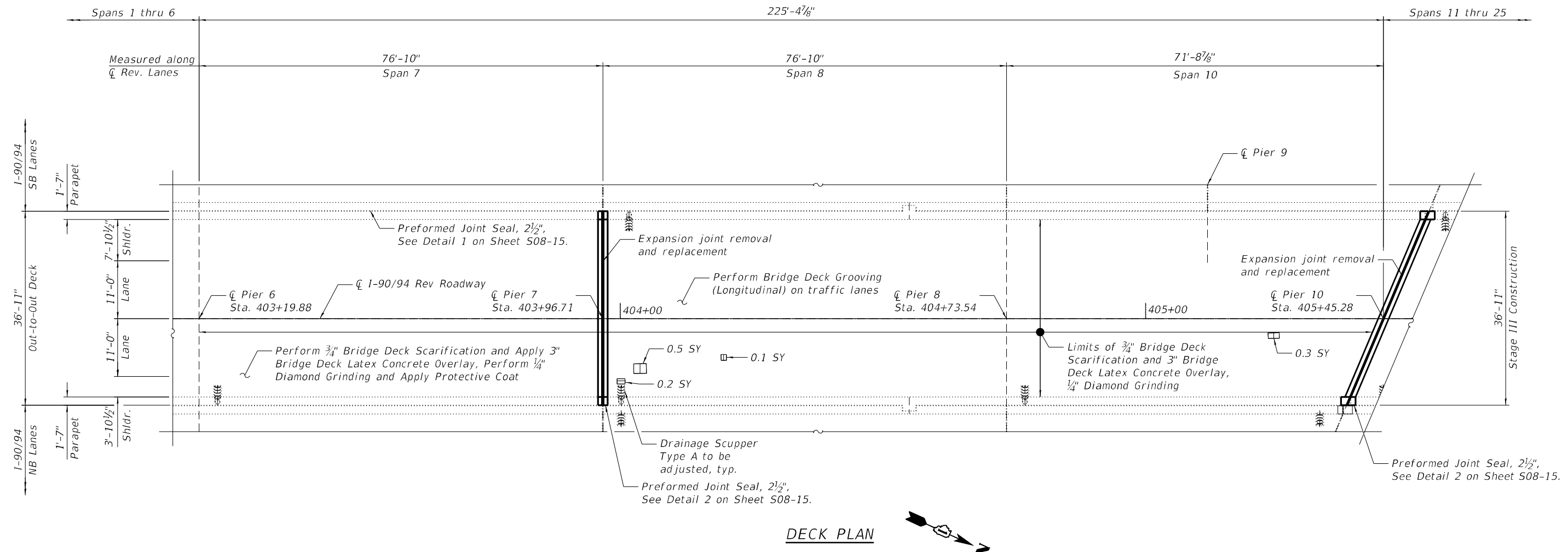
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STRUCTURE NO. 016-0133 (REV)**

SHEET S08-10 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	627
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq Yd	1047
Preformed Joint Seal 2 1/2"	Foot	230
Bridge Deck Grooving (Longitudinal)	Sq Yd	551
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	838
Bridge Deck Scarification 3/4"	Sq Yd	838
Deck Slab Repair (Full Depth, Type I)	Sq Yd	0.2
Diamond Grinding (Bridge Section)	Sq Yd	847



DECK PLAN

NOTE:
1. For Notes, see Sheet S08-09.

** Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3"

LEGEND:

	**Deck Slab Repair (Partial Depth)
SY	Square Yard

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

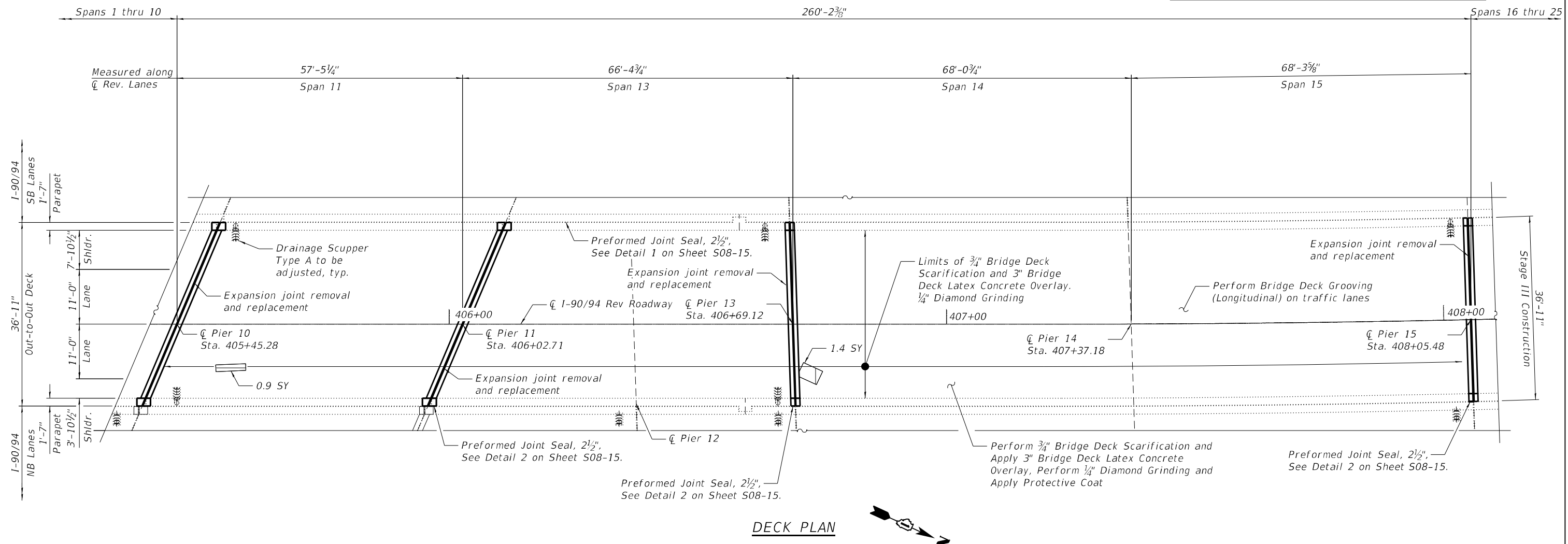
**DECK REPAIR PLAN (SHEET 3 OF 7)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-11 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	628
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq Yd	1192
Preformed Joint Seal 2 1/2"	Foot	267
Bridge Deck Grooving (Longitudinal)	Sq Yd	635
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	951
Bridge Deck Scarification 3/4"	Sq Yd	951
Deck Slab Repair (Full Depth, Type I)	Sq Yd	0.9
Diamond Grinding (Bridge Section)	Sq Yd	974



DECK PLAN

** Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3"

LEGEND:

- **Deck Slab Repair (Partial Depth)
- Deck Slab Repair (Full Depth, Type I)
- SY Square Yard

NOTE:

1. For Notes, see sheet S08-09.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

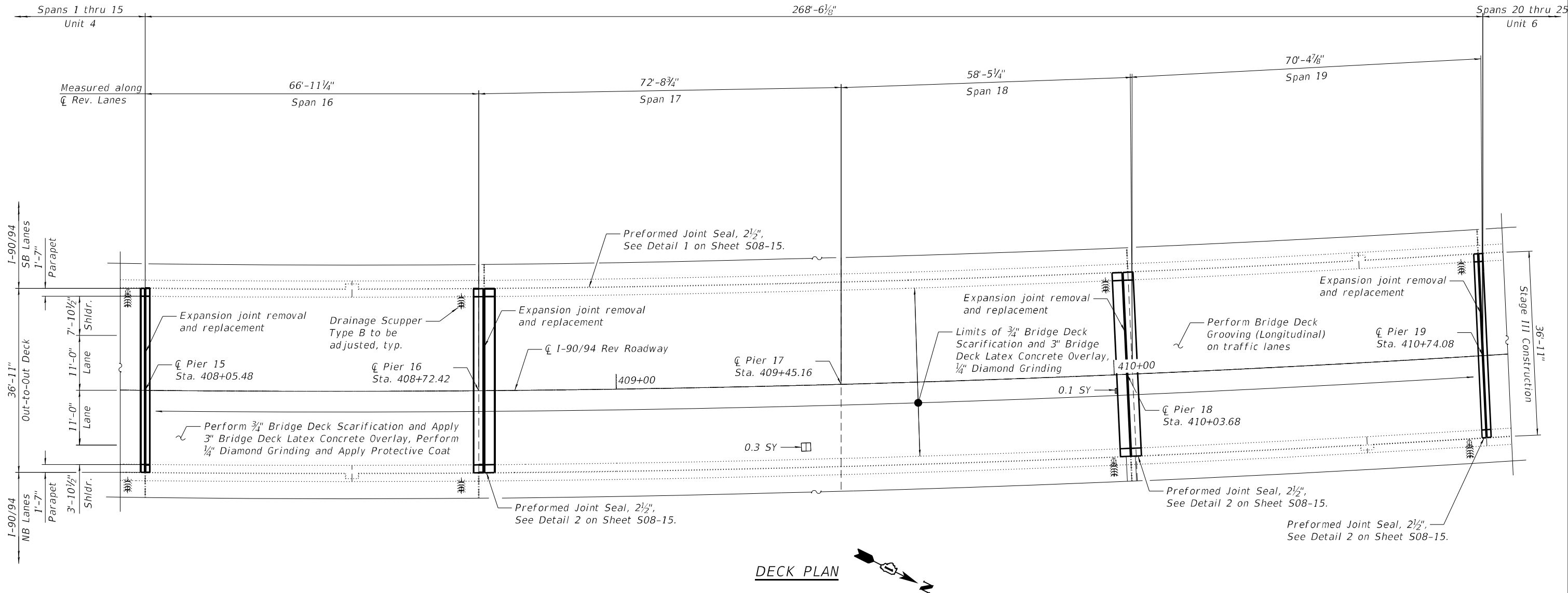
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STRUCTURE NO. 016-0133 (REV)**

SHEET S08-12 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	629
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq Yd	1,239
Preformed Joint Seal 2 1/2"	Foot	279
Bridge Deck Grooving (Longitudinal)	Sq Yd	656
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	960
Bridge Deck Scarification 3/4"	Sq Yd	960
Diamond Grinding (Bridge Section)	Sq Yd	1,006



DECK PLAN



** Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3"

LEGEND:

- **Deck Slab Repair (Partial Depth)
- SY Square Yard

NOTE:
1. For Notes, see sheet S08-09.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

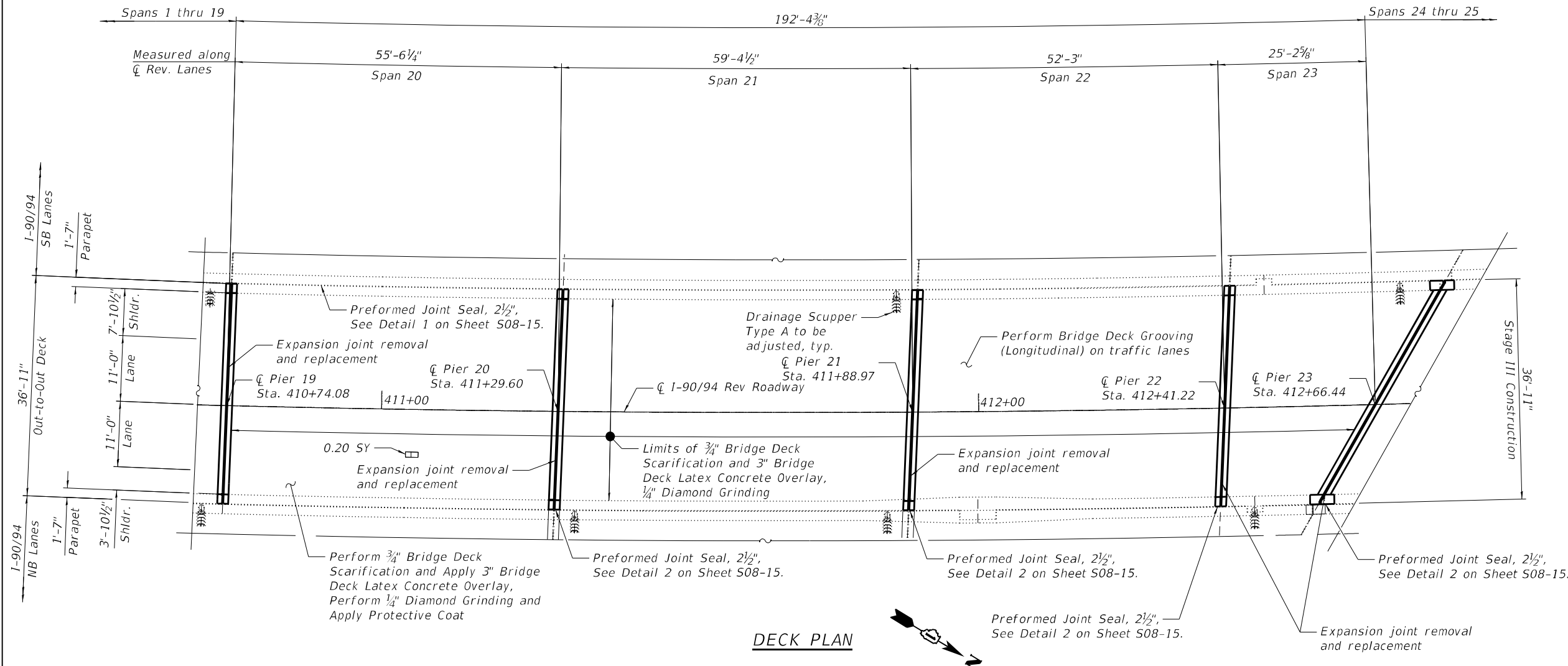
**DECK REPAIR PLAN (SHEET 5 OF 7)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-13 OF S08-78 SHEETS

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90/94	2020-004-BR	COOK	1492	630
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq Yd	894
Prefomed Joint Seal 2 1/2"	Foot	202
Bridge Deck Grooving (Longitudinal)	Sq Yd	469
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	693
Bridge Deck Scarification 3/4"	Sq Yd	693
Diamond Grinding (Bridge Section)	Sq Yd	722



DECK PLAN

NOTE:

1. For Notes, see Sheet S08-09.

** Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3"

LEGEND:

- **Deck Slab Repair (Partial Depth)
- SY Square Yard

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DEPARTMENT OF TRANSPORTATION**

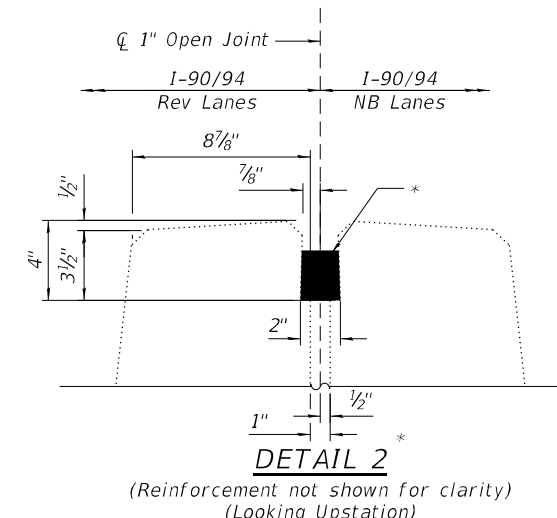
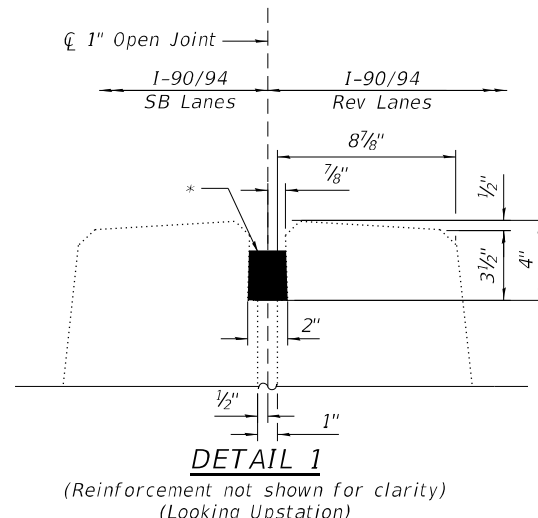
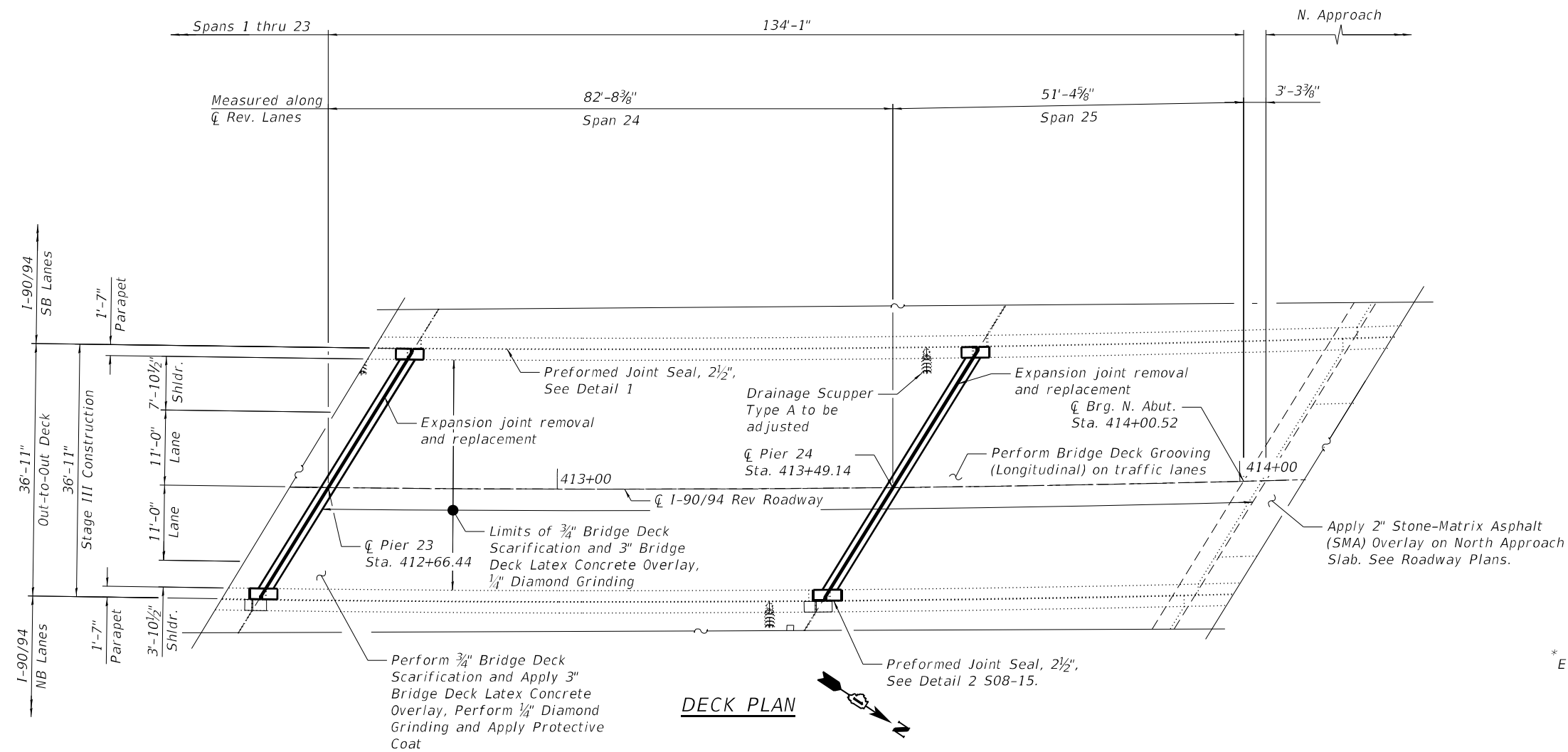
**DECK REPAIR PLAN (SHEET 6 OF 7)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-14 OF S08-78 SHEETS

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90/94	2020-004-BR	COOK	1492	631
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq Yd	643
Preformed Joint Seal 2 1/2"	Foot	142
Bridge Deck Grooving (Longitudinal)	Sq Yd	334
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	504
Bridge Deck Scarification 3/4"	Sq Yd	504
Diamond Grinding (Bridge Section)	Sq Yd	512



NOTE:
1. For Notes, see Sheet S08-09.

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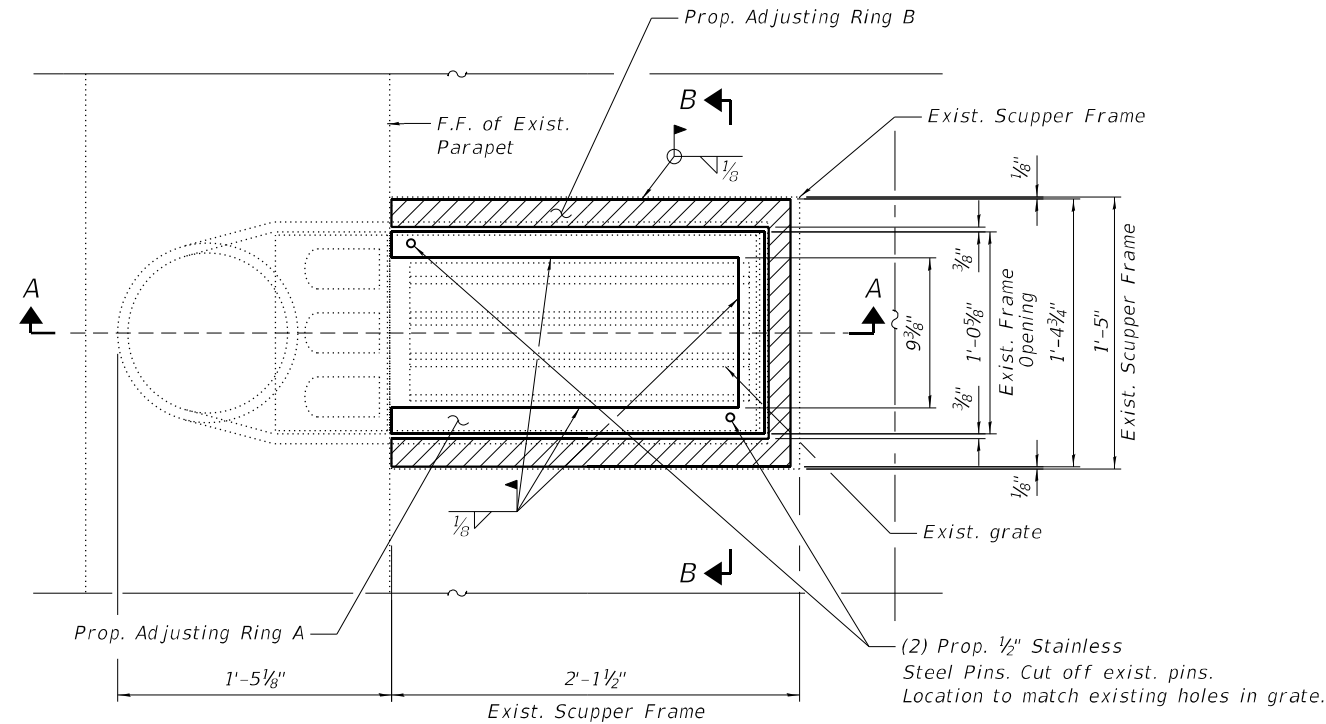
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN (SHEET 7 OF 7)
STRUCTURE NO. 016-0133 (REV)**

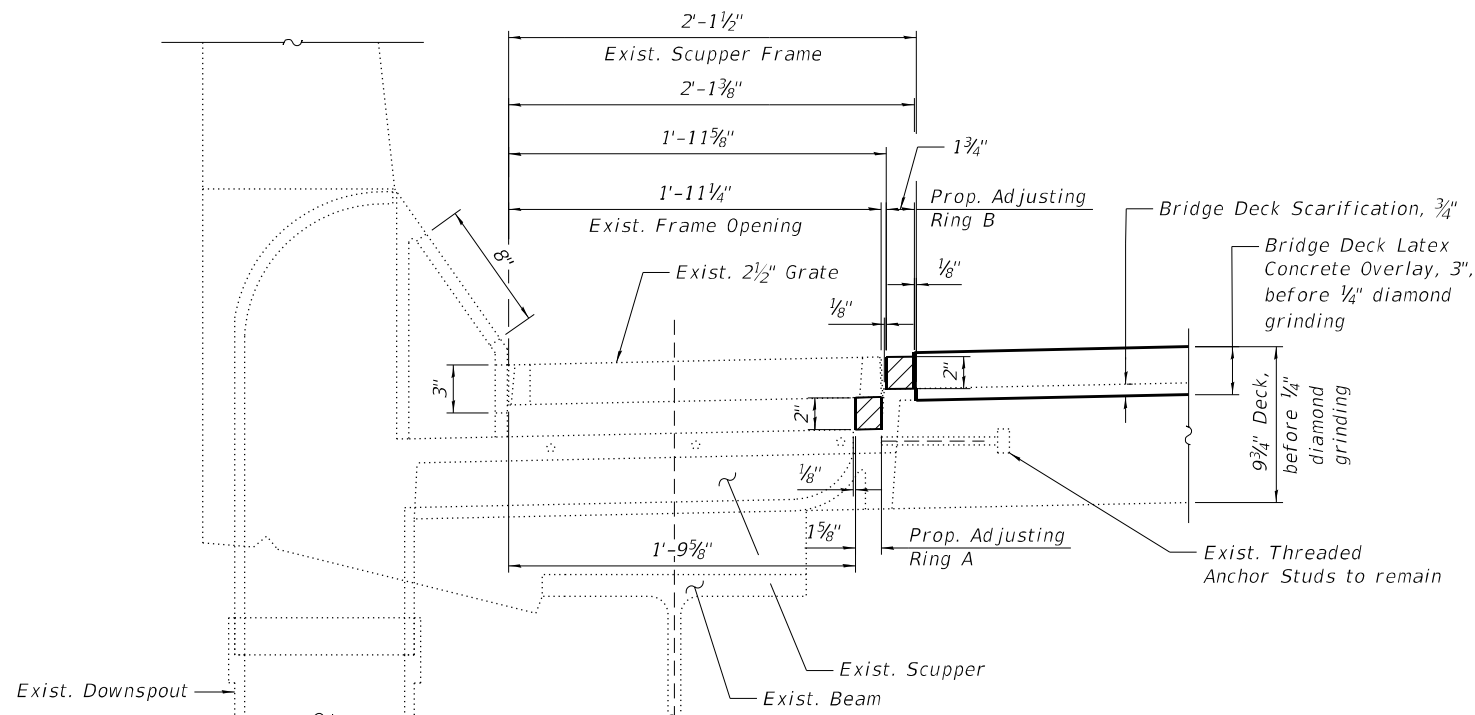
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ILLINOIS FED. AID PROJECT				

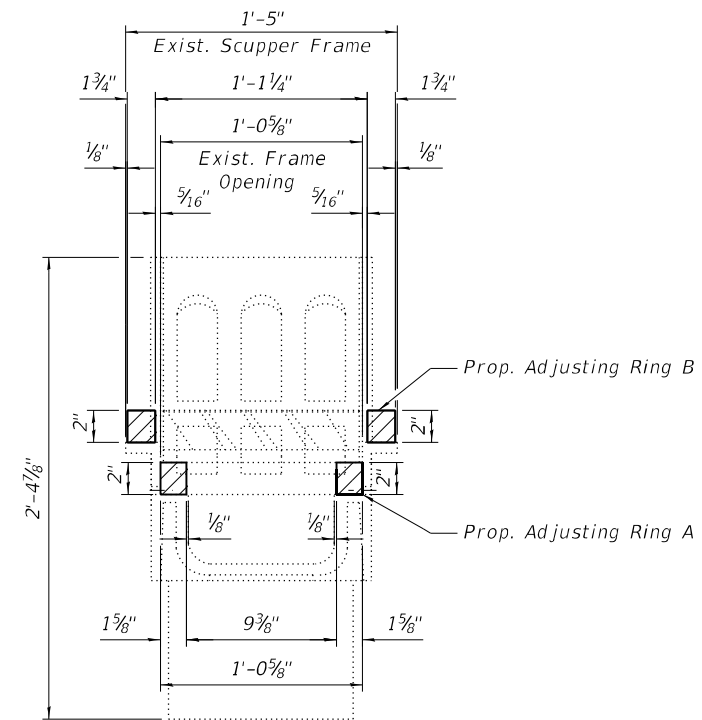


TYPICAL SCUPPER TYPE A PLAN

(20 Locations)



SECTION A-A



SECTION B-B

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers To Be Adjusted	Each	20

NOTES

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scuppers and make necessary adjustments prior to construction of New Adjusting Rings or ordering of material for Adjusting Drainage Scuppers.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Cast Iron Parts shall be unfinished.
4. The Contractor shall take appropriate measures to ensure that Protective Coat is not applied to the scuppers.
5. Adjusting Rings shall be from Neenah or approved equal. Structural steel weldments or equal section and of the same configuration may be submitted in place of Cast Iron. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a 1/8" Fillet Weld around perimeter of new Adjusting Rings to secure to existing Scupper.
7. Cost of all labor and materials necessary to clean all existing floor drains and scuppers, install adjusting scupper rings, remove and reinstall grates is included in the cost for Drainage Scupper to be Adjusted.

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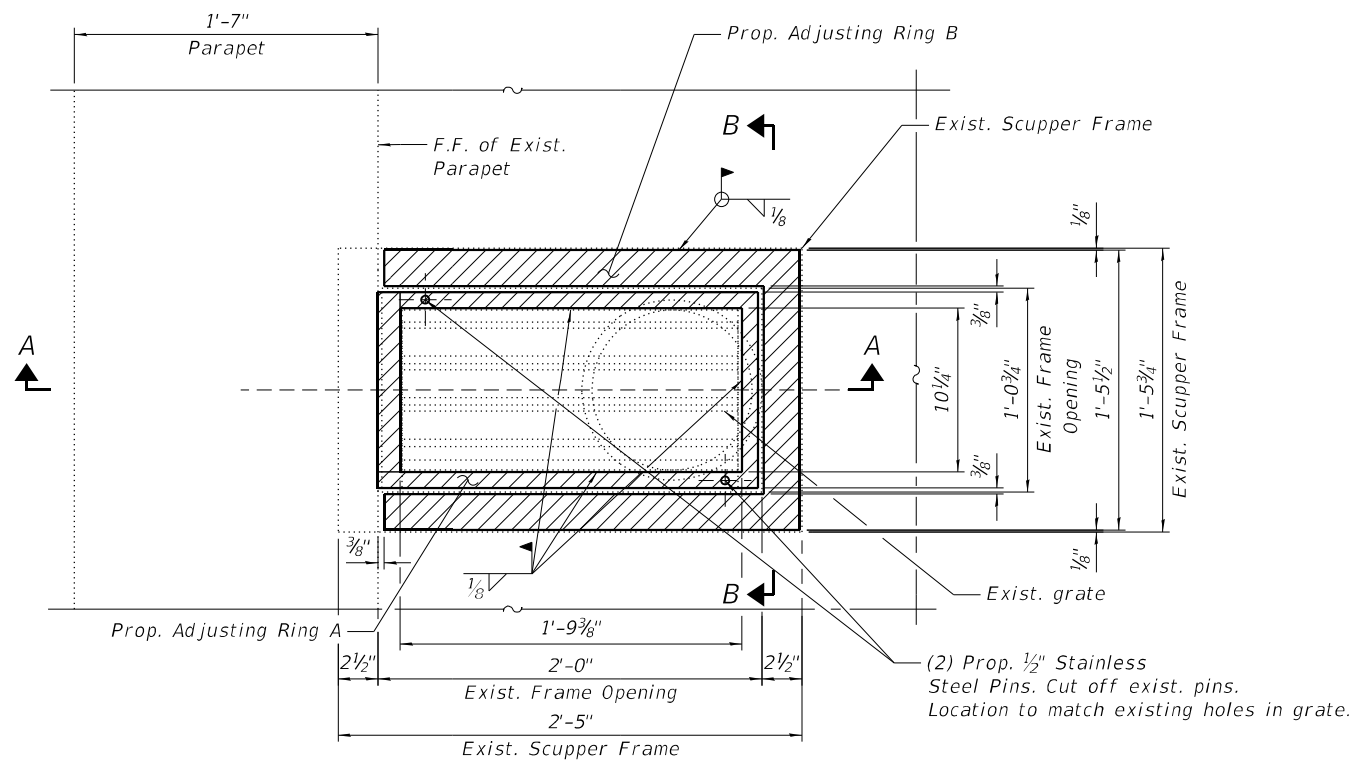
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCUPPER TYPE A ADJUSTMENT DETAILS
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-16 OF S08-78 SHEETS

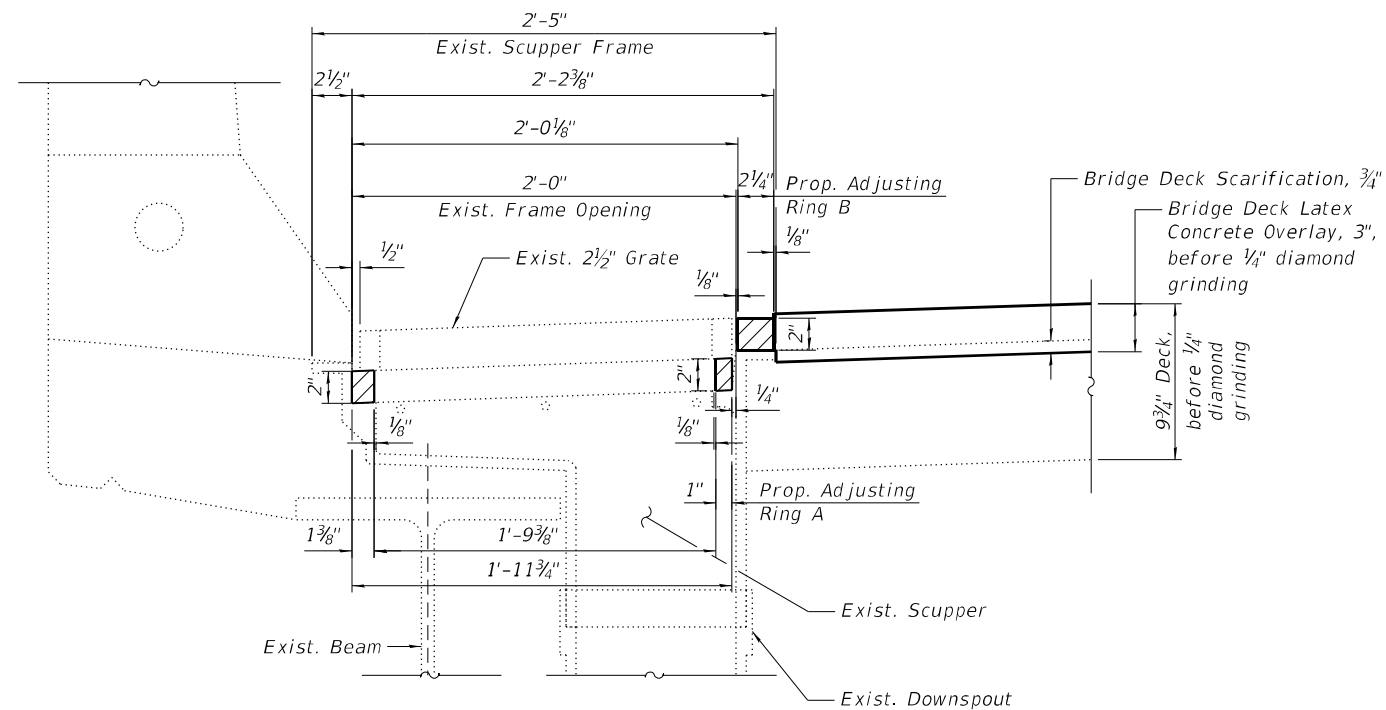
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CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		



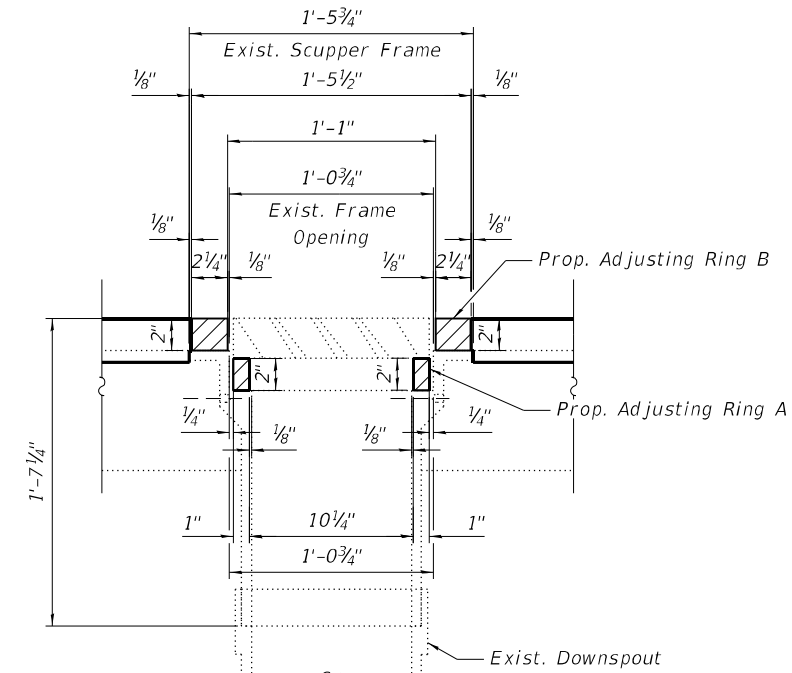
TYPICAL SCUPPER TYPE B PLAN
(3 Locations)

NOTES

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scuppers and make necessary adjustments prior to construction of New Adjusting Rings or ordering of material for Adjusting Drainage Scuppers.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Cast Iron Parts shall be unfinished.
4. The Contractor shall take appropriate measures to ensure that Protective Coat is not applied to the scuppers.
5. Adjusting Rings shall be from Neenah or approved equal. Structural steel weldments or equal section and of the same configuration may be submitted in place of Cast Iron. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a 1/8" Fillet Weld around perimeter of new Adjusting Rings to secure to existing Scupper.
7. Cost of all labor and materials necessary to clean all existing floor drains and scuppers, install adjusting scupper rings, remove and reinstall grates is included in the cost for Drainage Scupper to be Adjusted.



SECTION A-A



SECTION B-B

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers To Be Adjusted	Each	3

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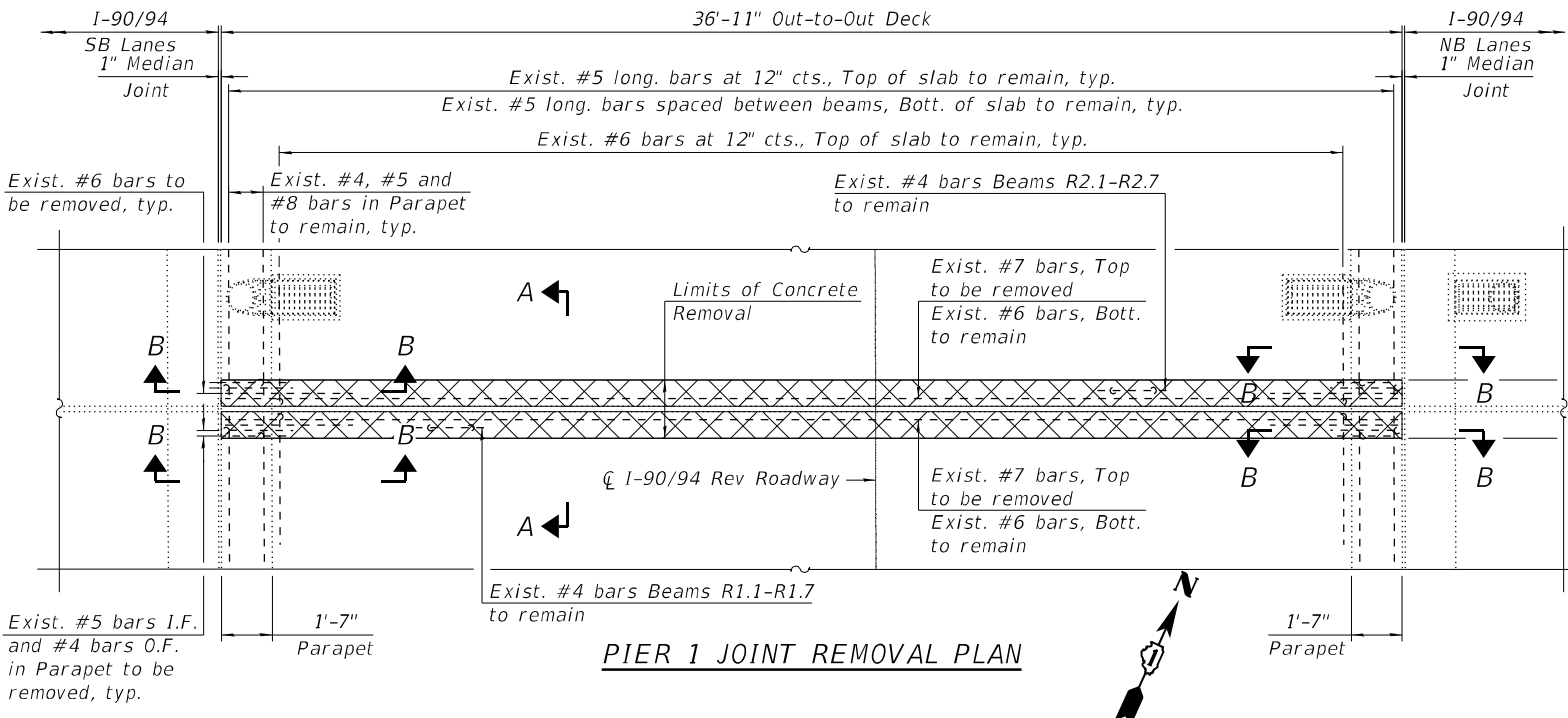
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

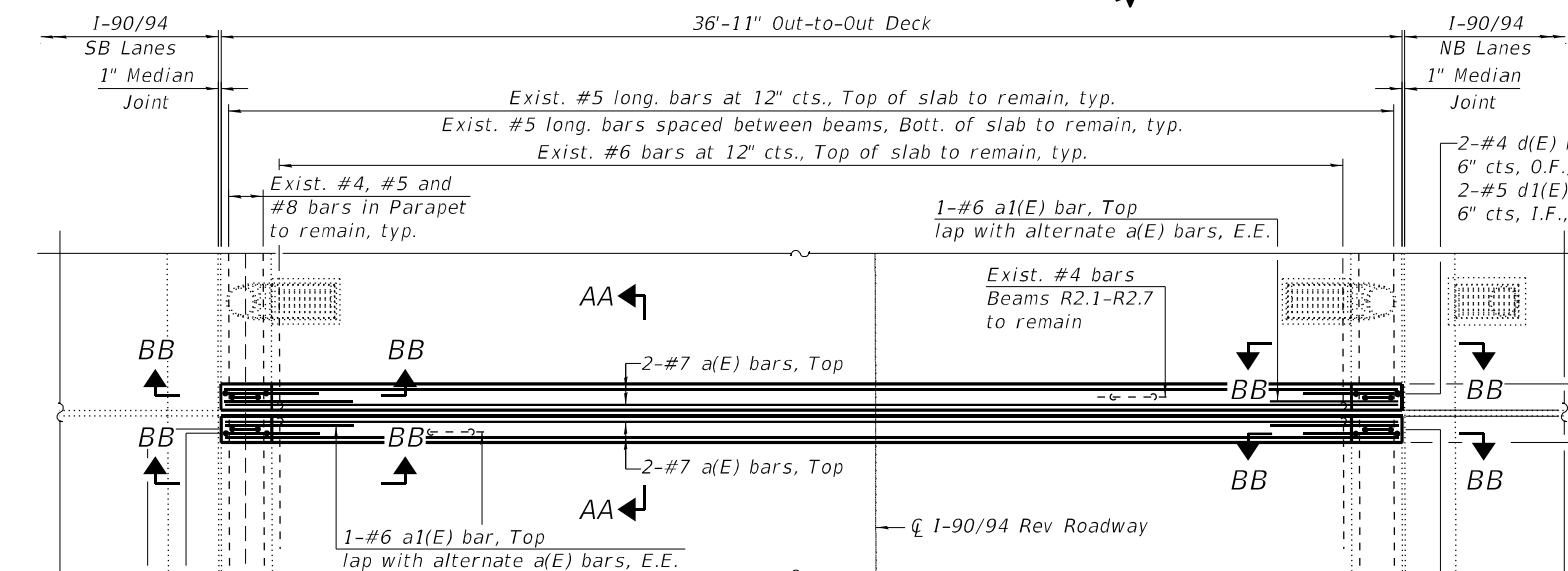
**DRAINAGE SCUPPER TYPE B ADJUSTMENT DETAILS
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-17 OF S08-78 SHEETS

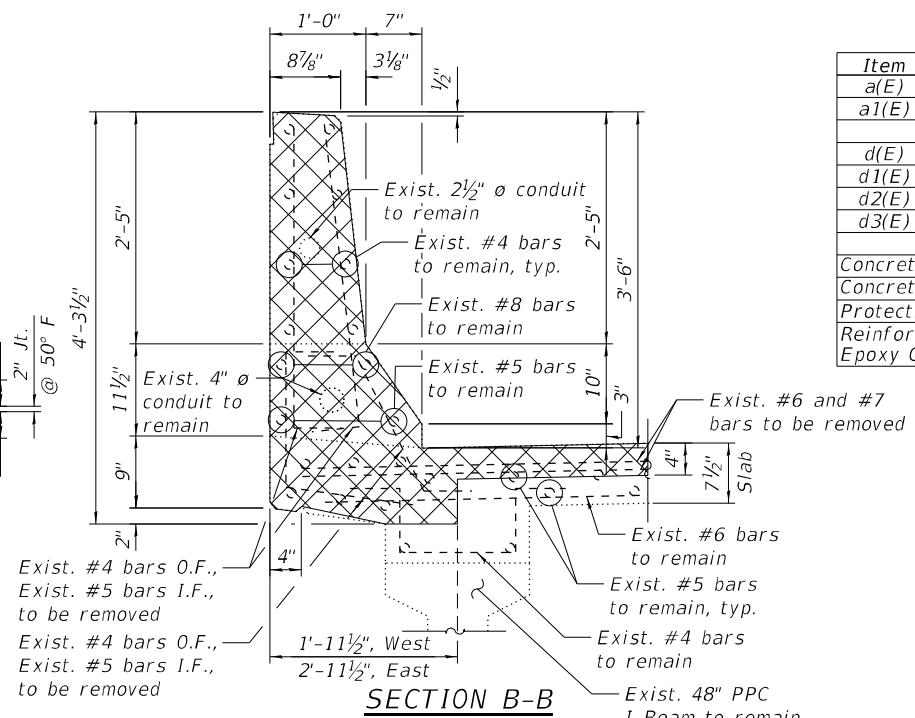
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CONTRACT NO. 62K74				
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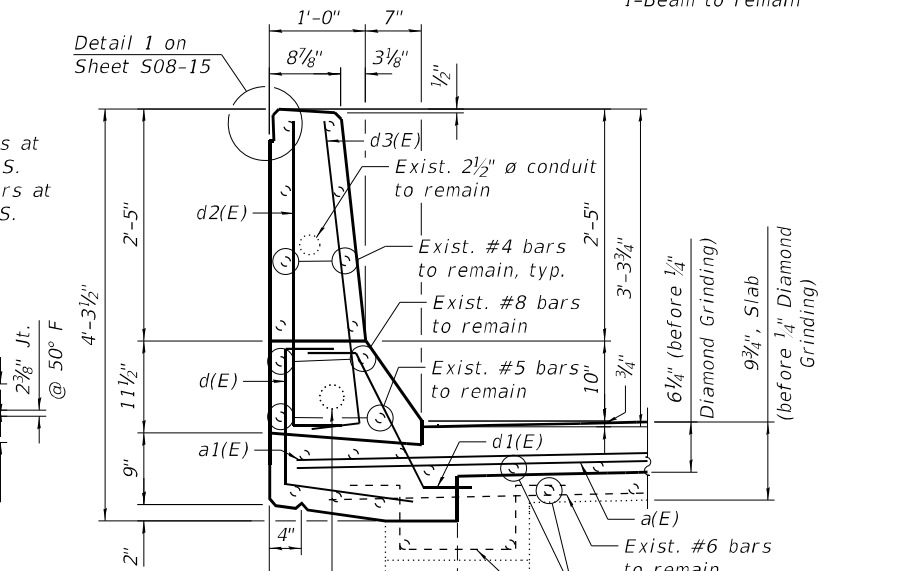
PIER 1 JOINT REMOVAL PLAN



PIER 1 JOINT RECONSTRUCTION PLAN



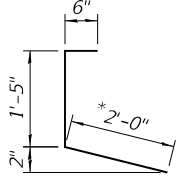
SECTION B-B



SECTION BB-BB

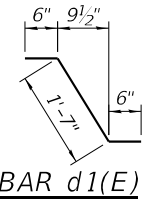
BILL OF MATERIAL

Item	No	Size	Length	Shape
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a1(E)	4	#6	6'-6"	—
d(E)	8	#4	3'-11"	┌
d1(E)	8	#5	2'-7"	└
d2(E)	8	#4	3'-8"	┌
d3(E)	8	#5	3'-8"	└
Concrete Removal		Cu Yd	1.4	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	7.7	
Reinforcement Bars, Epoxy Coated		Pound	440	

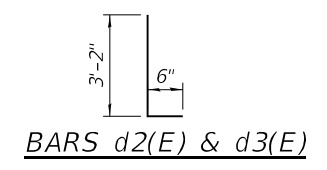


BAR d(E)

*Cut end bar in field to fit



BAR d1(E)



BARS d2(E) & d3(E)

NOTES:

- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.

LEGEND

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

MODEL: Default
FILE NAME: P:\2004-824 PTB195-010-GRAE1\WO#4 I-90 SB & Rev Var Overlays - Ashland Rev\Sheet Files\0160133-62K74-518-Pier 1 Exp JT Removal&Constr.dgn
9/13/2022 9:35:41 AM



USER NAME =	DESIGNED - SK	REVISED -
PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - SK	REVISED -
	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

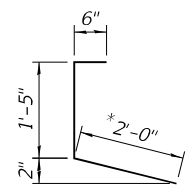
**PIER 1 JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-18 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	635
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

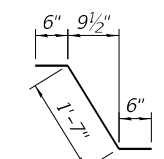
BILL OF MATERIAL

Item	No	Size	Length	Shape
a10(E)	4	#7	36'-7"	—
a11(E)	4	#6	6'-6"	—
d10(E)	8	#4	3'-11"	┌
d11(E)	8	#5	2'-7"	┌
d12(E)	8	#4	3'-8"	┌
d13(E)	8	#5	3'-8"	┌
Concrete Removal		Cu Yd	1.5	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	7.8	
Reinforcement Bars, Epoxy Coated		Pound	440	

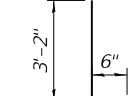


BAR d10(E)

*Cut end bar in field to fit



BAR d11(E)



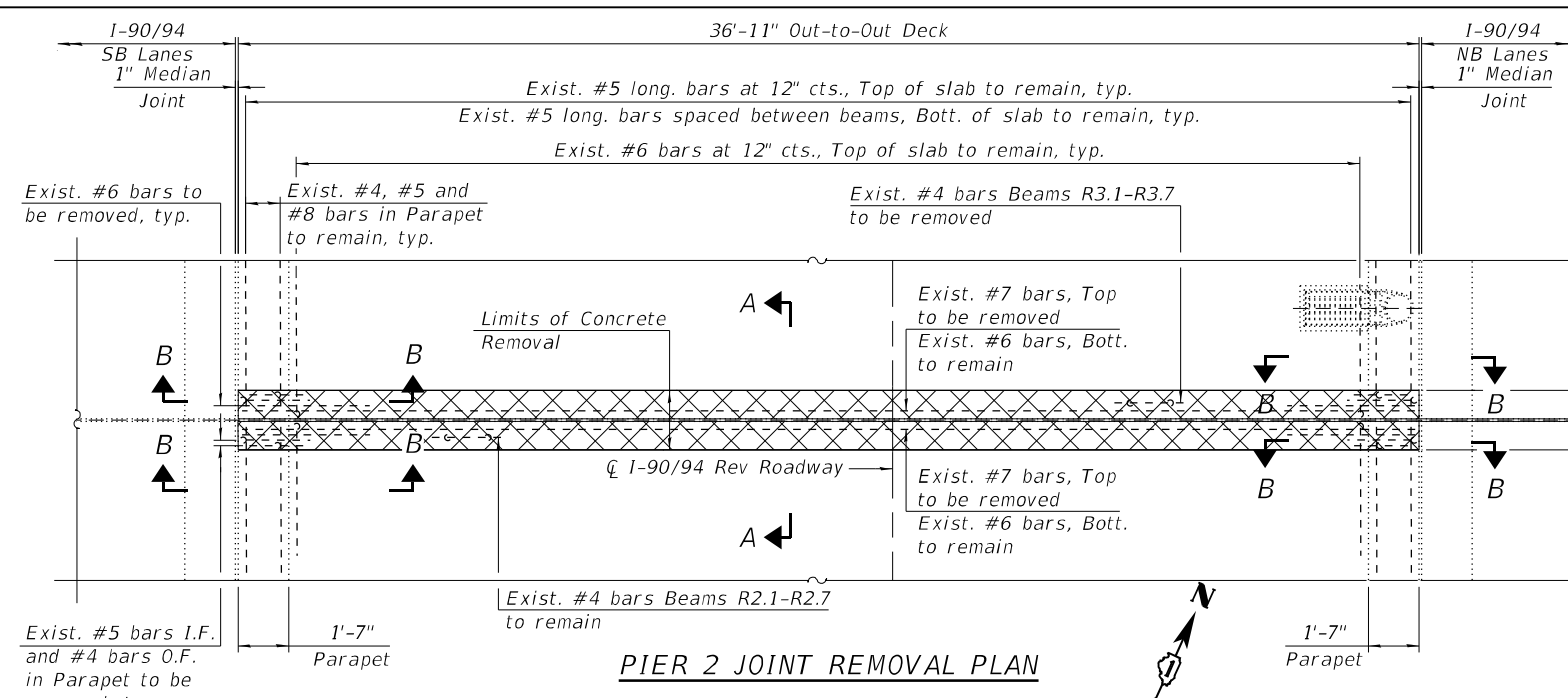
BARS d12(E) & d13(E)

NOTES:

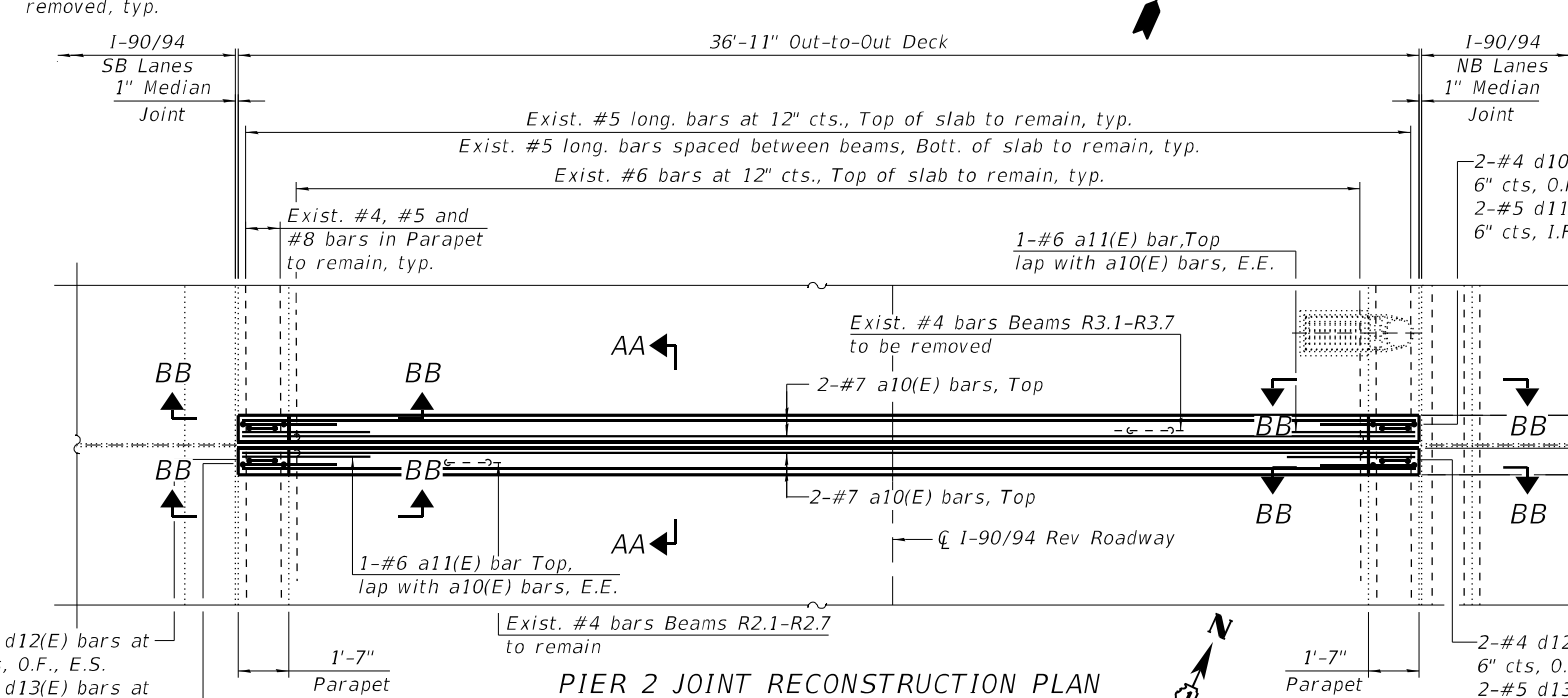
- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing joint is included with Concrete Removal.

LEGEND

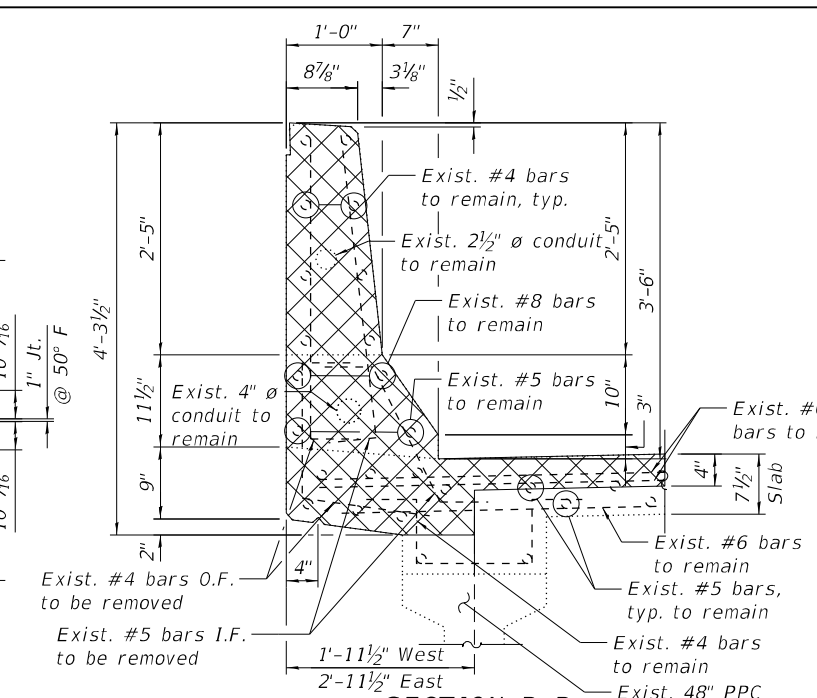
	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side



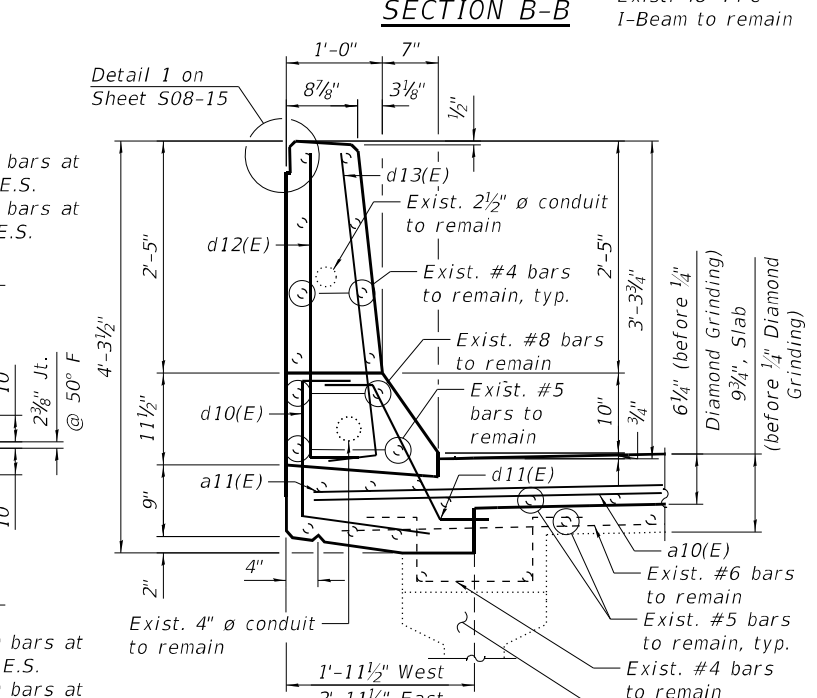
PIER 2 JOINT REMOVAL PLAN



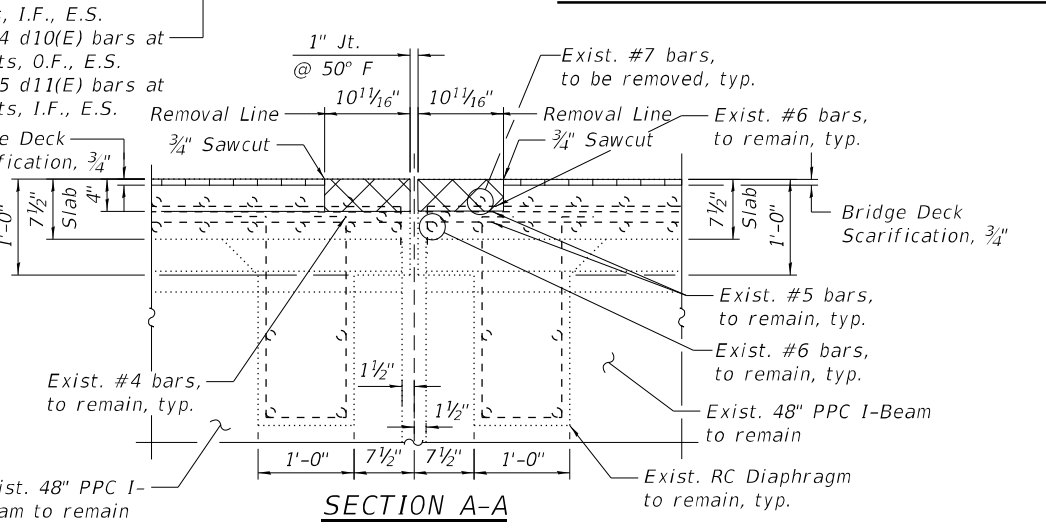
PIER 2 JOINT RECONSTRUCTION PLAN



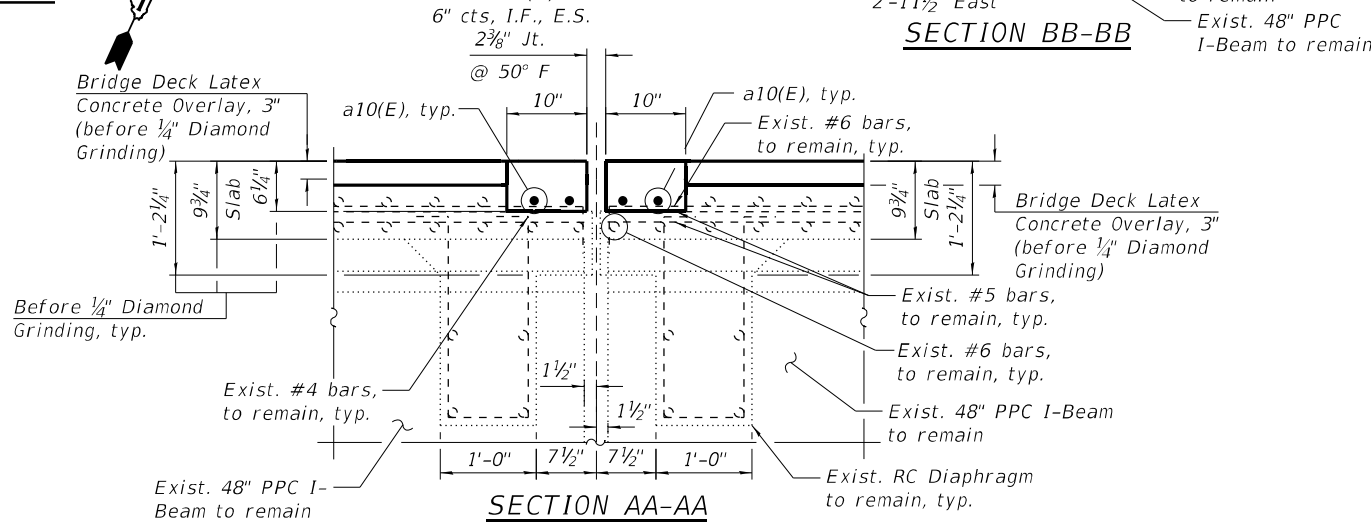
SECTION B-B



SECTION BB-BB



SECTION A-A



SECTION AA-AA

MODEL: Default
FILE NAME: P:\2004-824 PTB195-010-GRAEF\WO#4 I-90_SB & Rev Var Overlays - Ashland Rev\Sheet Files\0160133-62K74-519- Pier 2 Jt. Removal&Constr.dgn
9/13/2022 9:35:44 AM



USER NAME =	DESIGNED - SK	REVISED -
PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - SK	REVISED -
	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

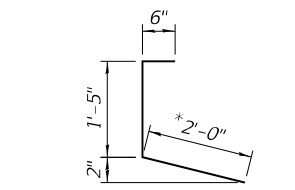
**PIER 2 JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 016-0133 (REV)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	636
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

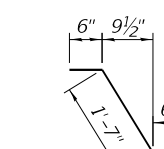
SHEET S08-19 OF S08-78 SHEETS

BILL OF MATERIAL

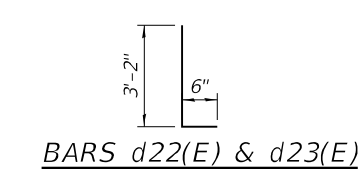
Item	No	Size	Length	Shape
a20(E)	4	#7	36'-7"	—
a21(E)	4	#6	6'-6"	—
d20(E)	8	#4	3'-11"	┌
d21(E)	8	#5	2'-7"	┌
d22(E)	8	#4	3'-8"	┌
d23(E)	8	#5	3'-8"	┌
Concrete Removal		Cu Yd	1.4	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	7.7	
Reinforcement Bars, Epoxy Coated		Pound	440	



BAR d20(E)
*Cut end bar in field to fit



BAR d21(E)



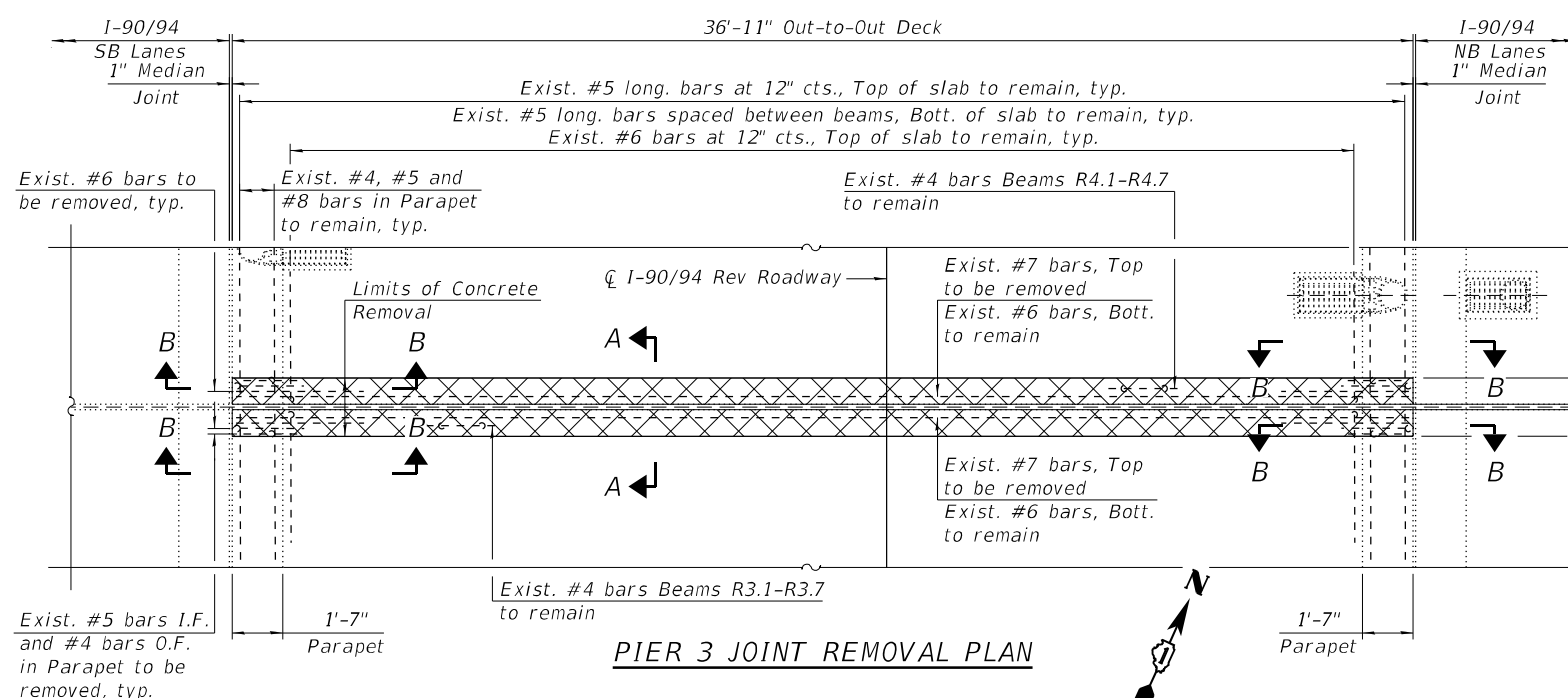
BARS d22(E) & d23(E)

NOTES:

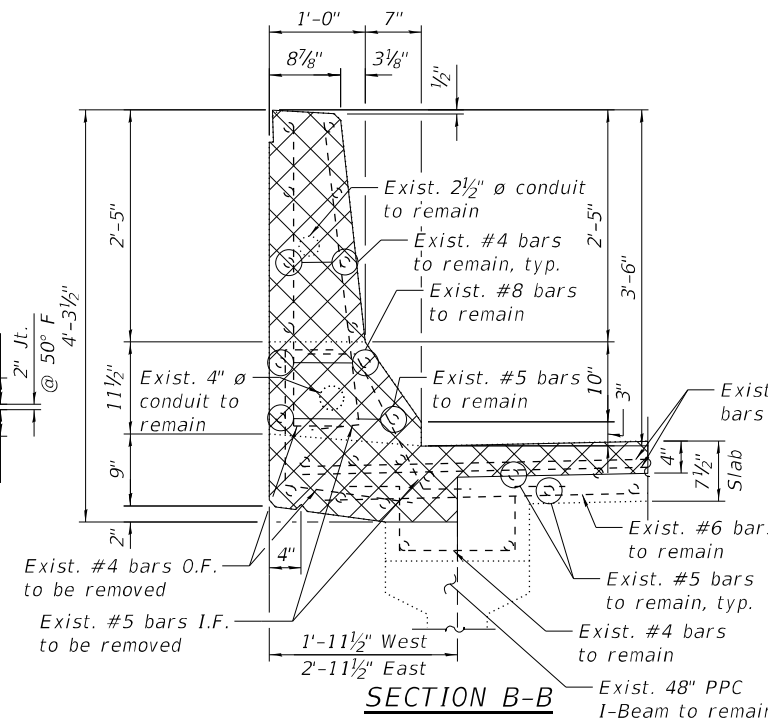
- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.

LEGEND

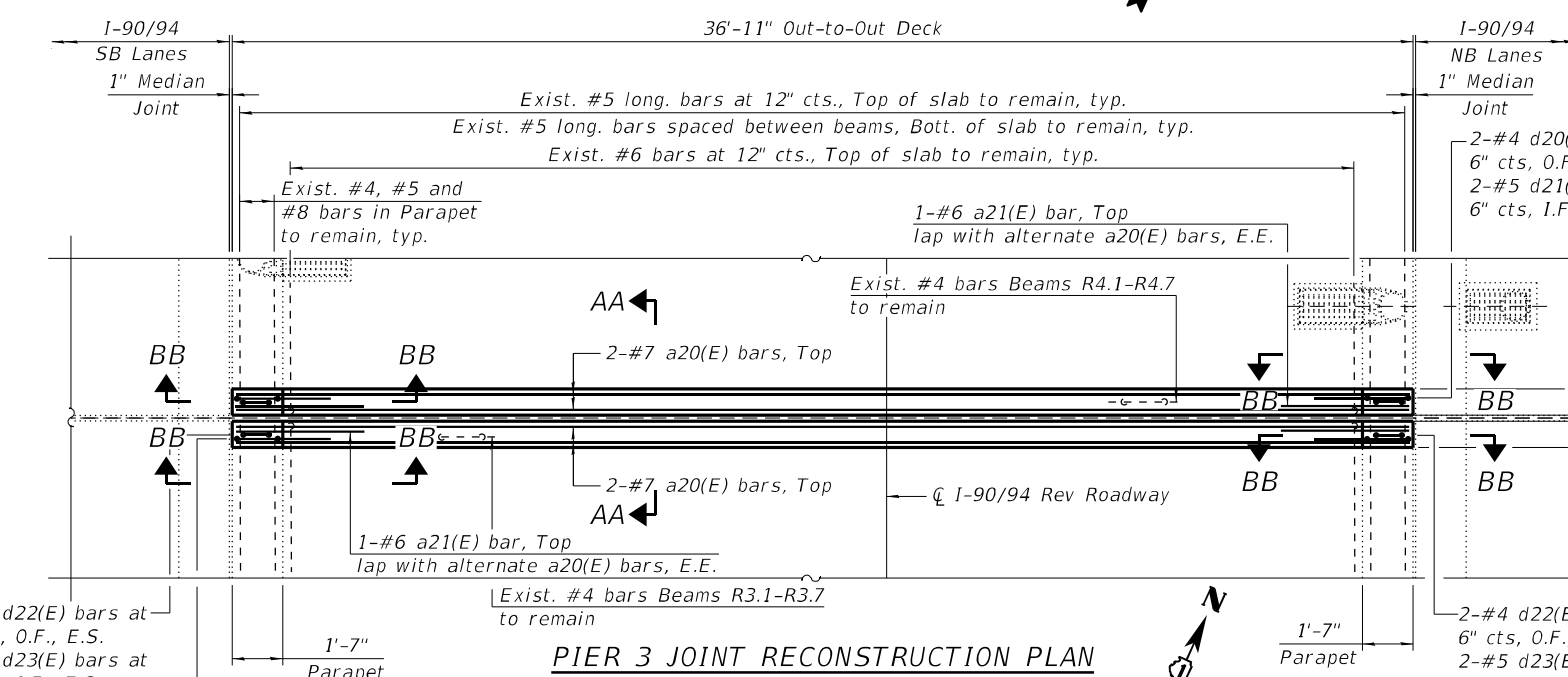
- Concrete Removal
- I.F. Inside Face
- O.F. Outside Face
- E.E. Each End
- E.S. Each Side



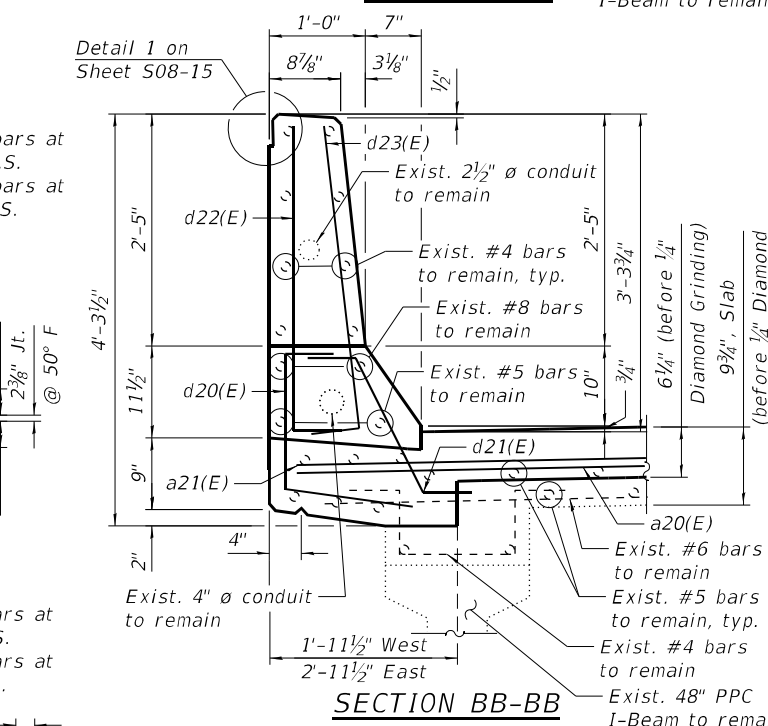
PIER 3 JOINT REMOVAL PLAN



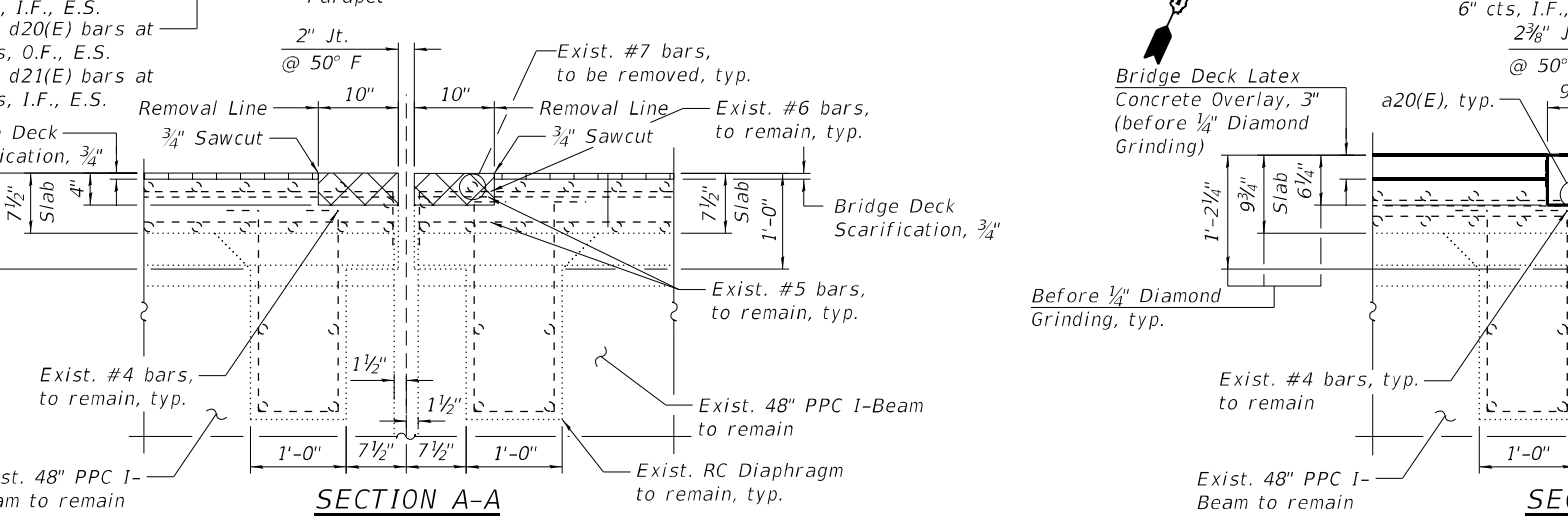
SECTION B-B



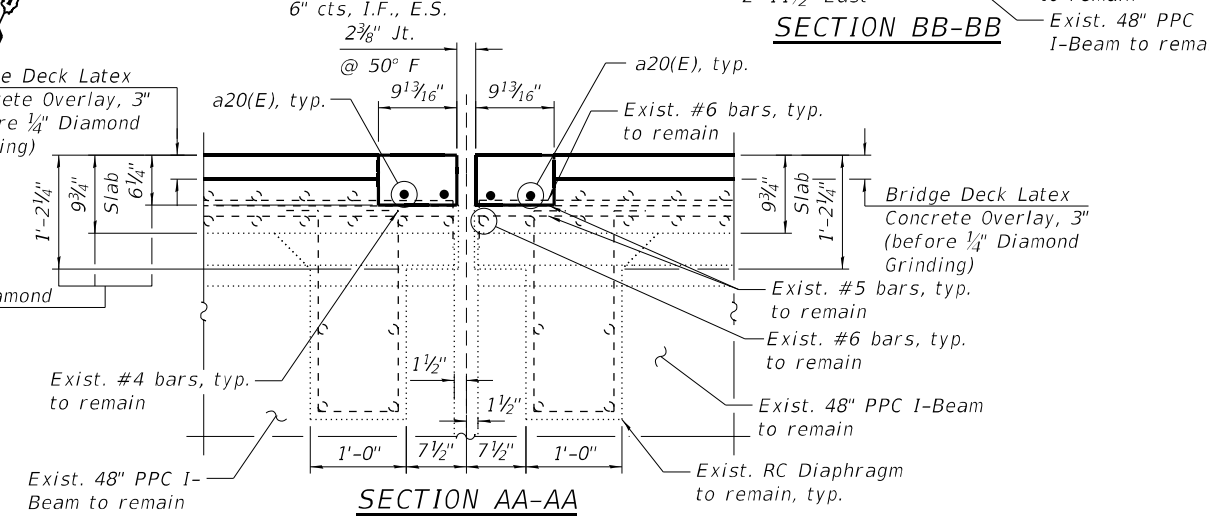
PIER 3 JOINT RECONSTRUCTION PLAN



SECTION BB-BB



SECTION A-A



SECTION AA-AA

MODEL: Default
FILE NAME: P:\2004-824 PTB195-010-GRAEF\WO#4 1-90_SB & Rev Var Overlays - Ashland Rev\Sheet Files\0160133-62K74-520-Pier_3_Exp_Jt_Removal&Constr.dgn
9/13/2022 9:35:47 AM



USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MAI	REVISIONS -	
PLOT SCALE =	DRAWN - SK	REVISED -
PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

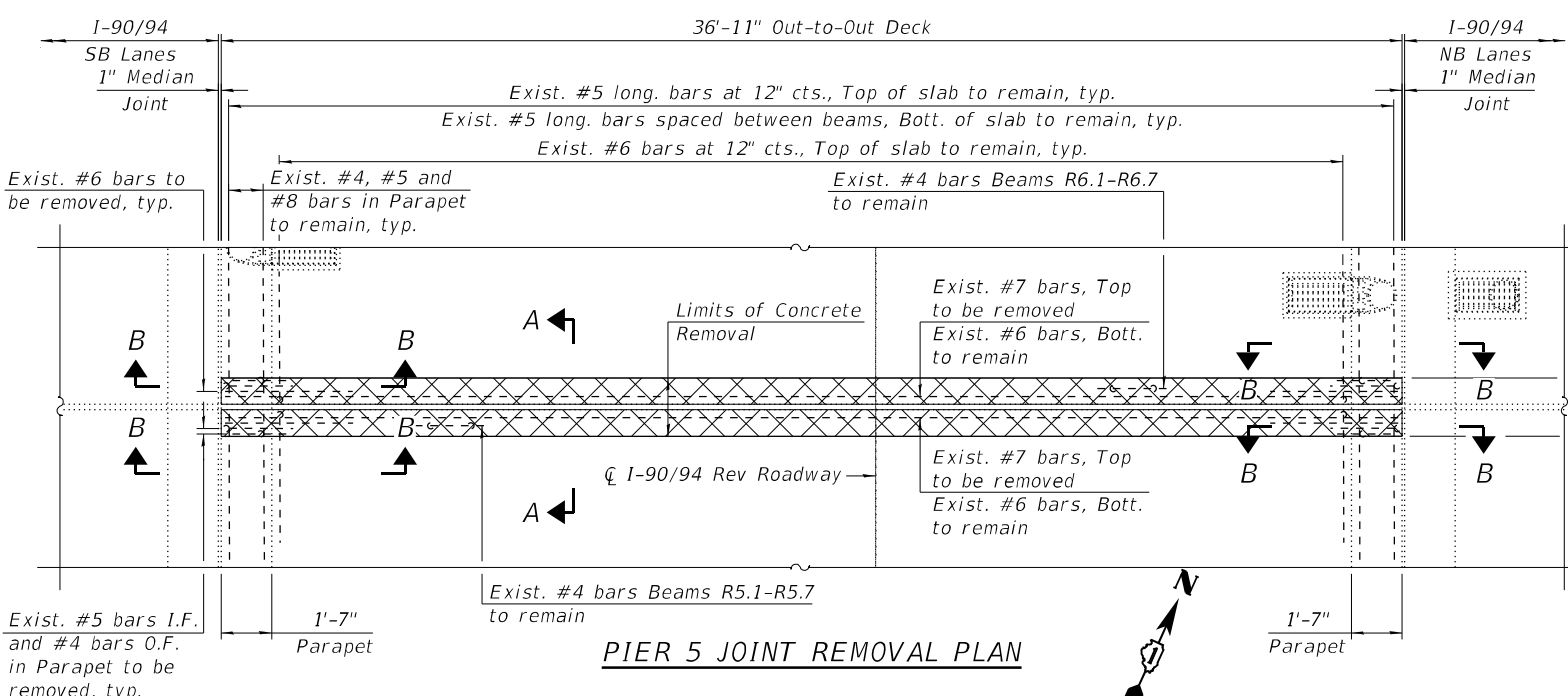
**PIER 3 JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-20 OF S08-78 SHEETS

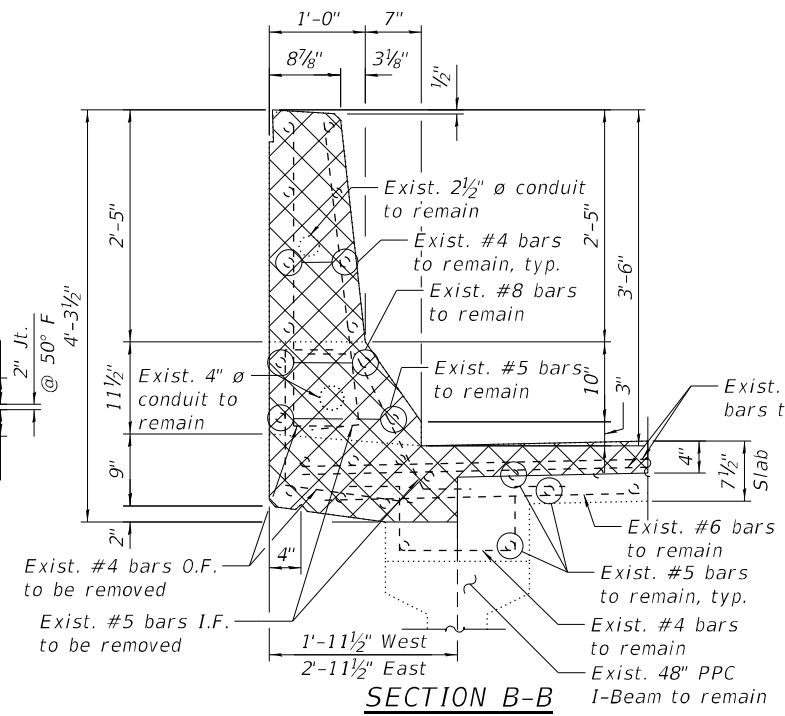
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	637
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

BILL OF MATERIAL

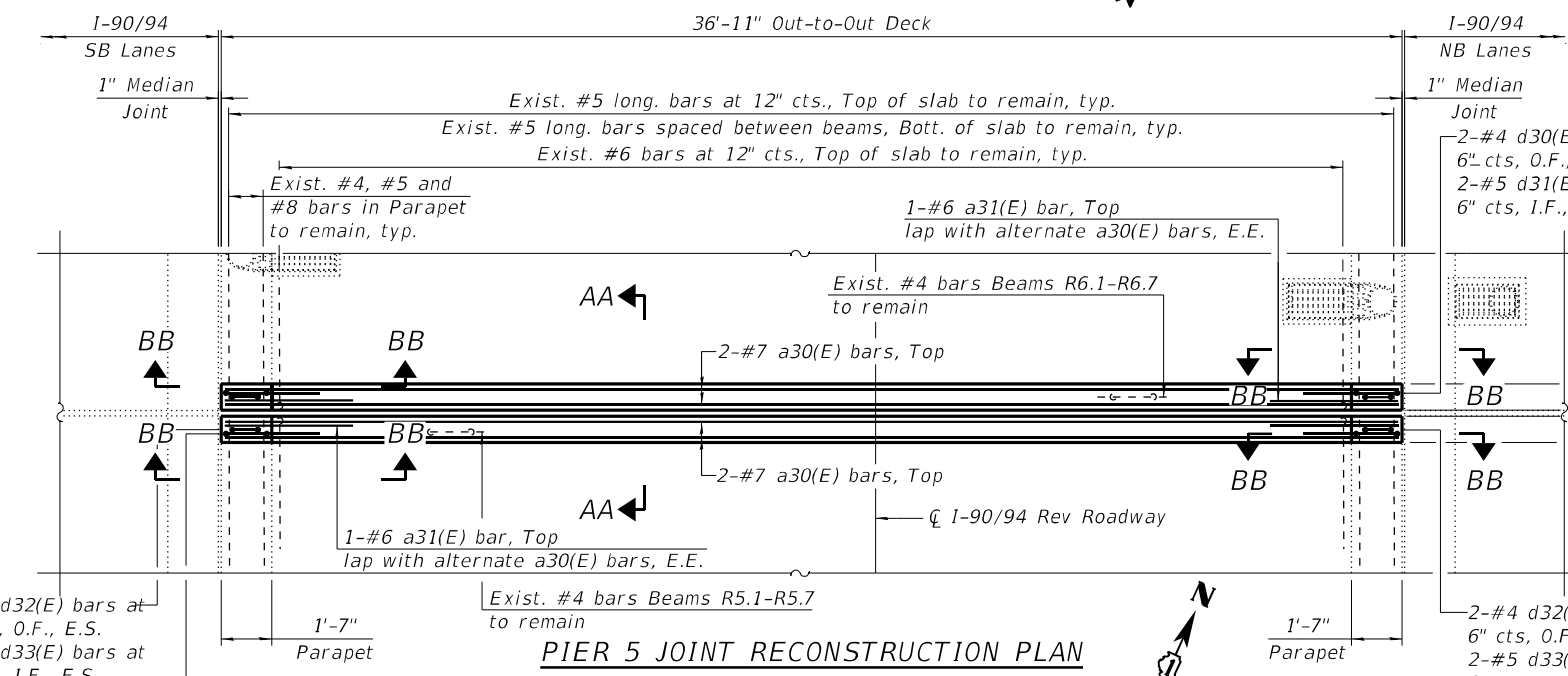
Item	No	Size	Length	Shape
a30(E)	4	#7	36'-7"	—
a31(E)	4	#6	6'-6"	—
d30(E)	8	#4	3'-11"	┌
d31(E)	8	#5	2'-7"	┌
d32(E)	8	#4	3'-8"	┌
d33(E)	8	#5	3'-8"	┌
Concrete Removal		Cu Yd	1.4	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	7.7	
Reinforcement Bars, Epoxy Coated		Pound	440	



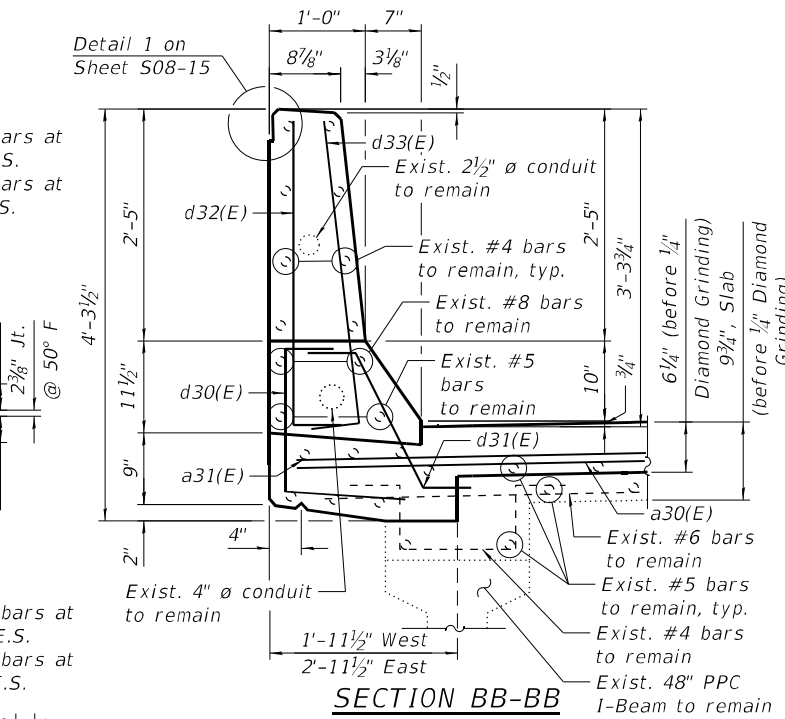
PIER 5 JOINT REMOVAL PLAN



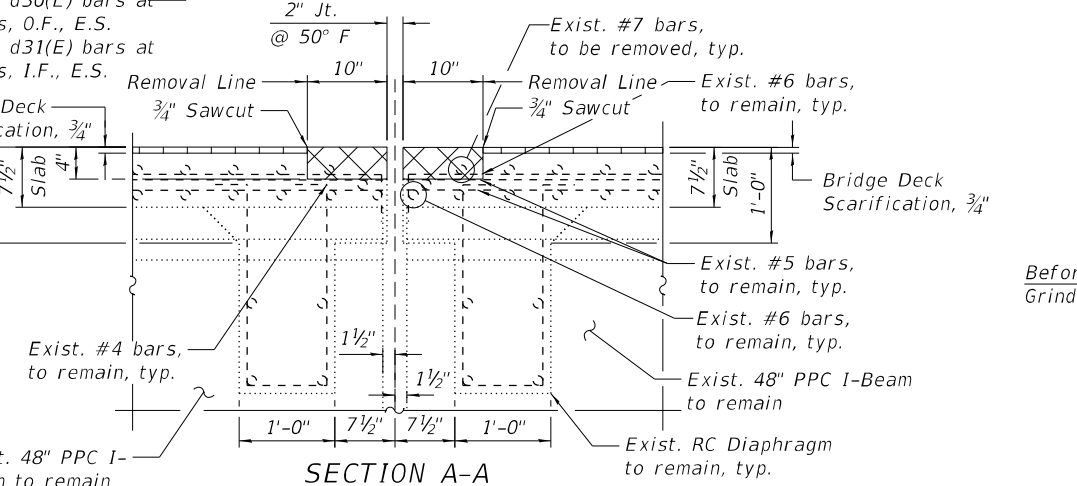
SECTION B-B



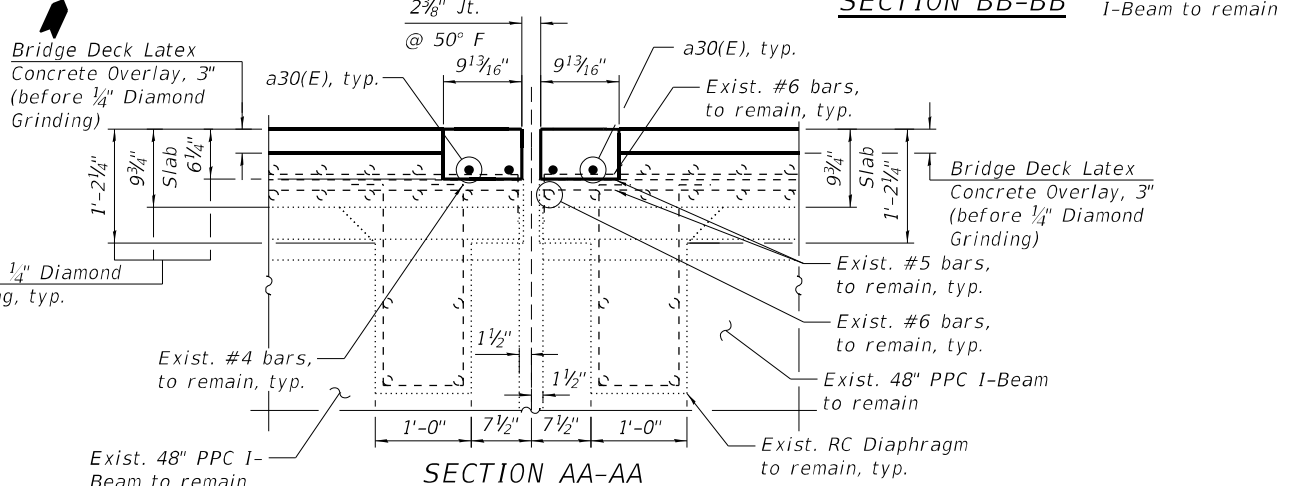
PIER 5 JOINT RECONSTRUCTION PLAN



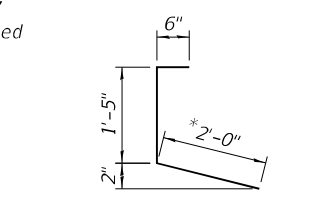
SECTION BB-BB



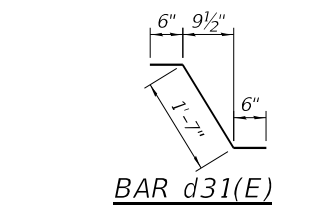
SECTION A-A



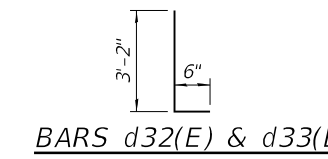
SECTION AA-AA



BAR d30(E)



BAR d31(E)



BARS d32(E) & d33(E)

NOTES:

1. For preformed joint strip seal details, see Sheet S08-45.
2. Removal and disposal of the existing expansion joints is included with Concrete Removal.

LEGEND

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

MODEL: Default
FILE NAME: P:\2004-824 PTB195-010-GRAEF\WO#4 1-90_SB & Rev Var Overlays - Ashland Rev\Sheet Files\0160133-62K74-521-Pier 5_Exp JT Removal&Constr.dgn
9/13/2022 9:35:49 AM



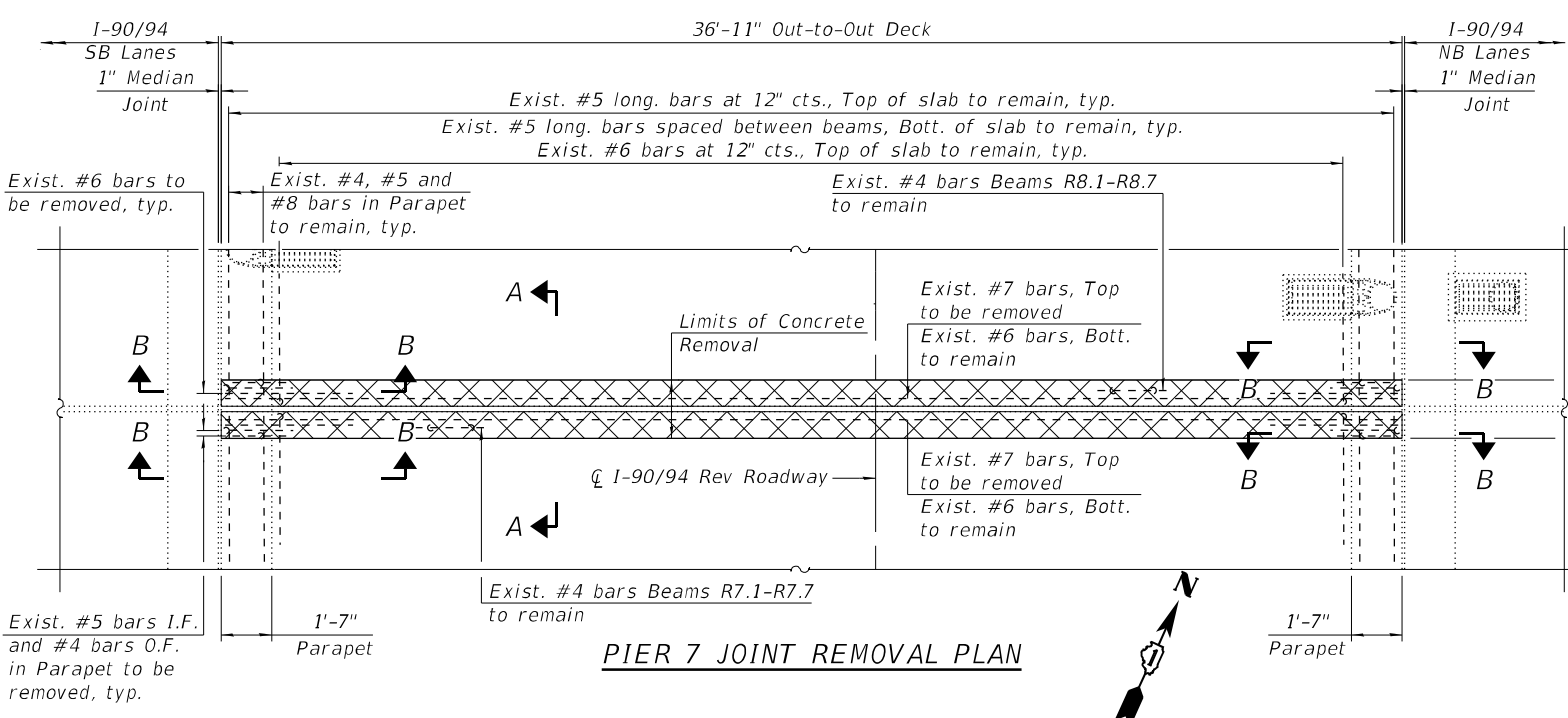
USER NAME =	DESIGNED - SK	REVISED -
PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - SK	REVISED -
	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

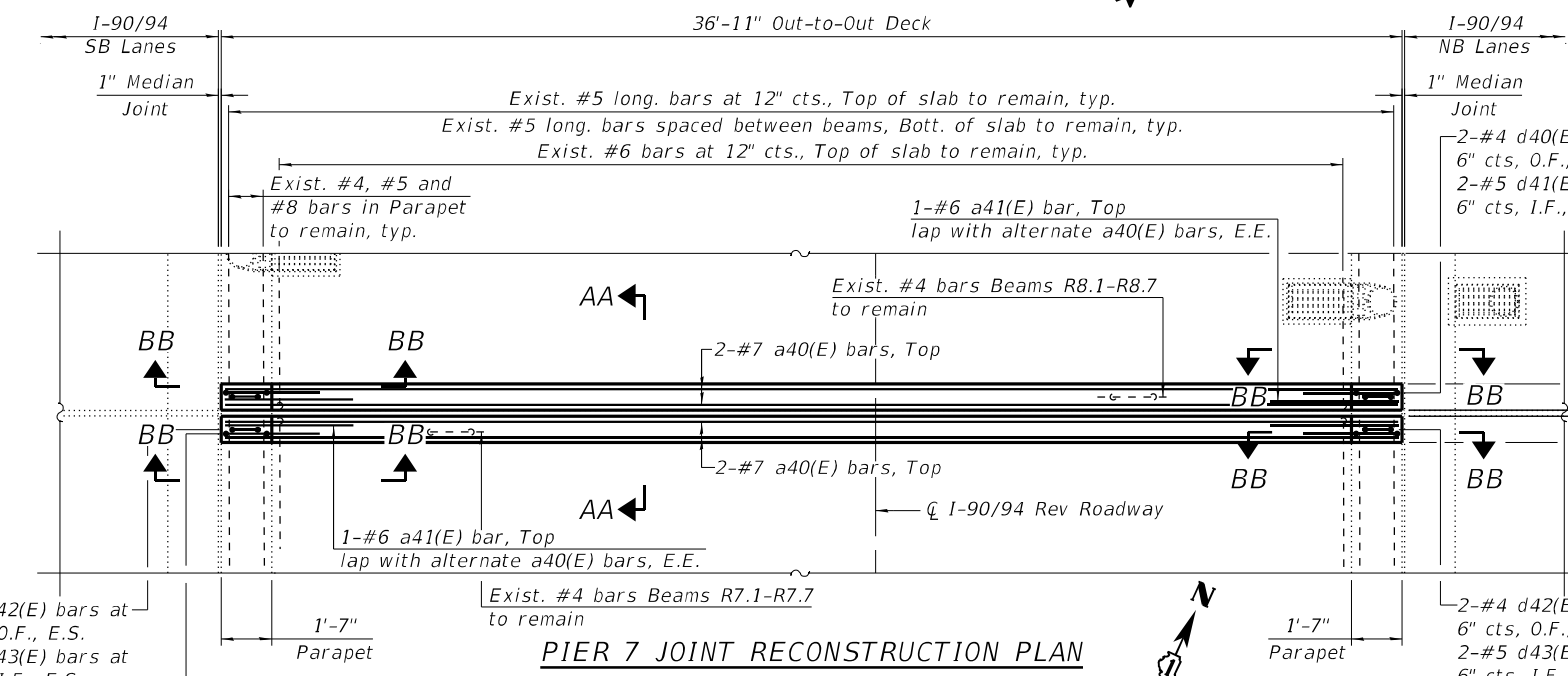
**PIER 5 JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-21 OF S08-78 SHEETS

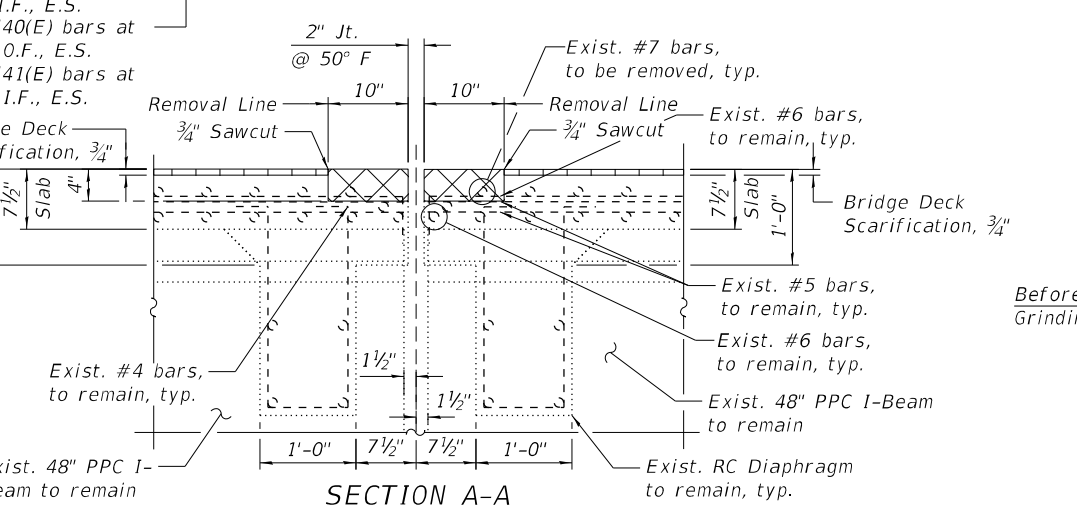
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	638
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		



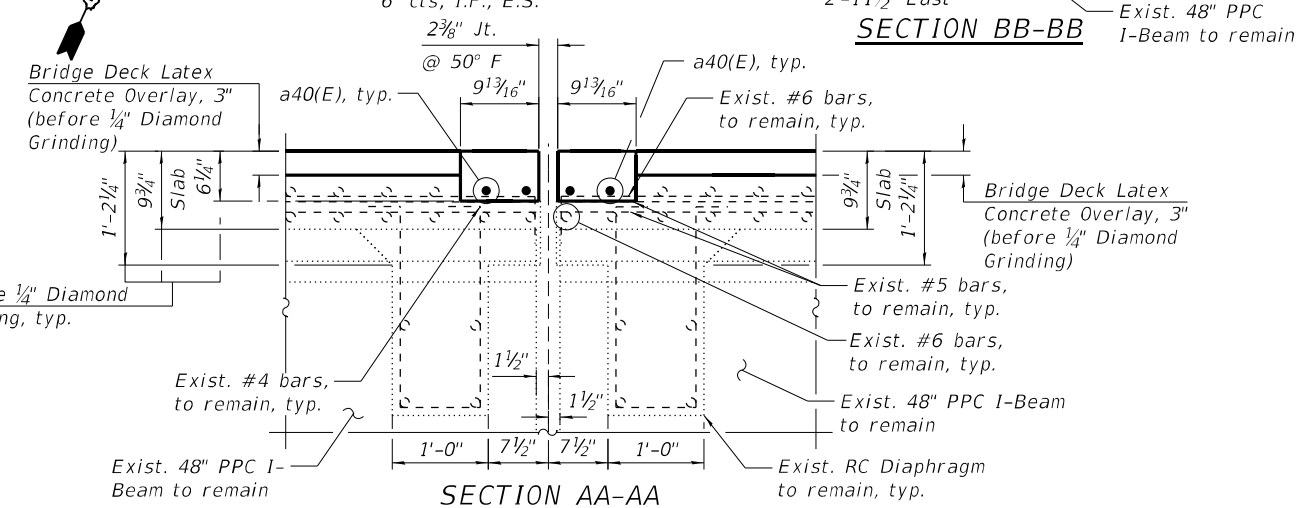
PIER 7 JOINT REMOVAL PLAN



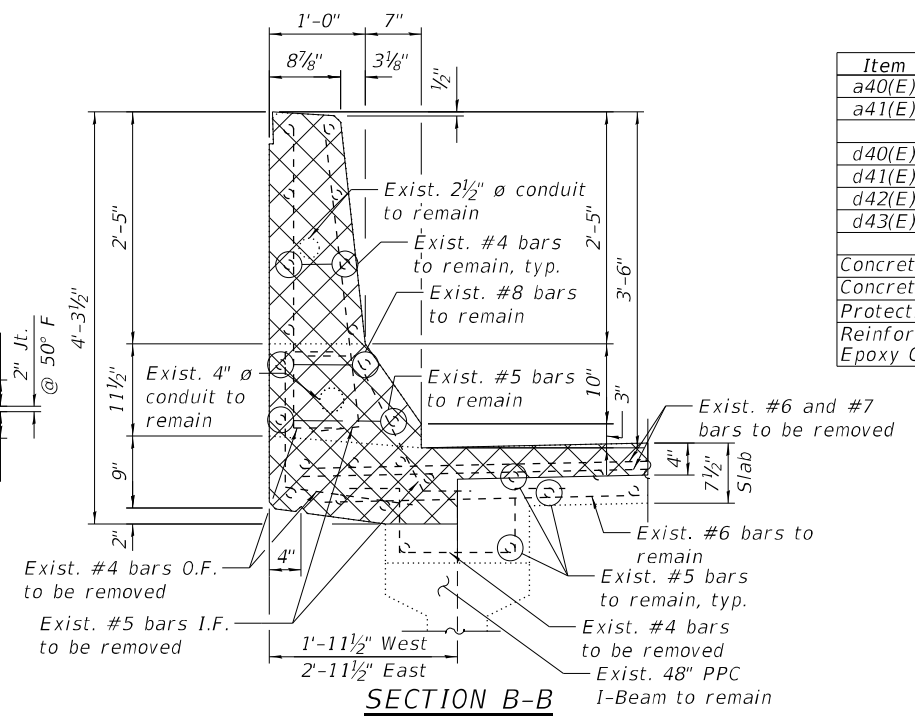
PIER 7 JOINT RECONSTRUCTION PLAN



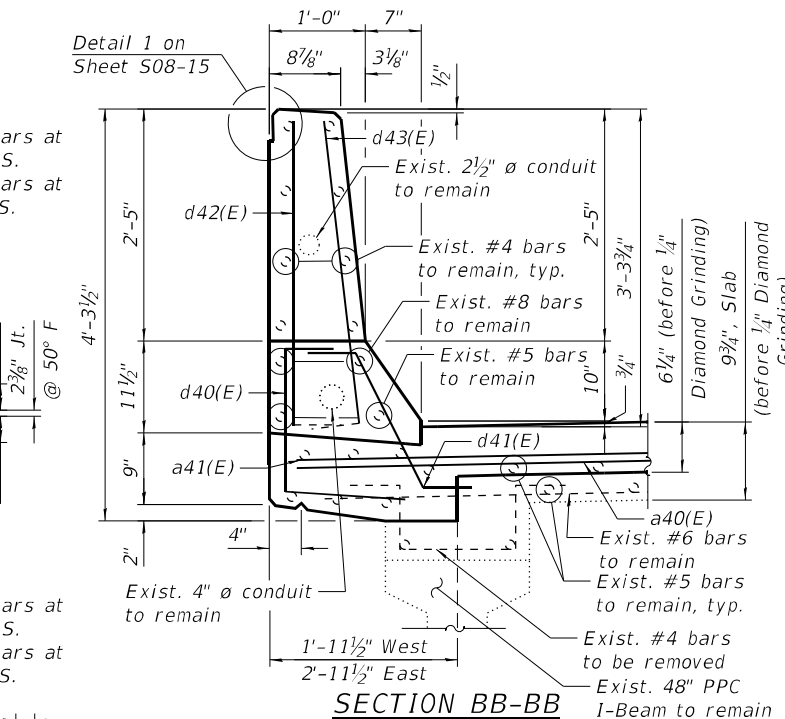
SECTION A-A



SECTION AA-AA



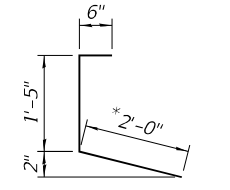
SECTION B-B



SECTION BB-BB

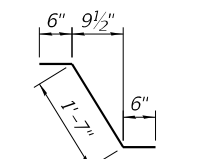
BILL OF MATERIAL

Item	No	Size	Length	Shape
a40(E)	4	#7	36'-7"	—
a41(E)	4	#6	6'-6"	—
d40(E)	8	#4	3'-11"	┌
d41(E)	8	#5	2'-7"	┌
d42(E)	8	#4	3'-8"	┌
d43(E)	8	#5	3'-8"	┌
Concrete Removal		Cu Yd	1.4	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	7.7	
Reinforcement Bars, Epoxy Coated		Pound	440	

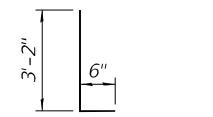


BAR d40(E)

*Cut end bar in field to fit



BAR d41(E)



BARS d42(E) & d43(E)

NOTES:

- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.

LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side

MODEL: Default
FILE NAME: P:\2004-824-PTB195-010-GRAEF\WO#4-1-90-SB & Rev. Var. Overlays - Ashland Rev\Sheet Files\0160133-62K74-522-Pier.7_Exp.JL-Removal&Constr.dgn
9/13/2022 9:35:52 AM



USER NAME =	DESIGNED - SK	REVISED -
PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - SK	REVISED -
	DATE - 9/13/2022	REVISED -

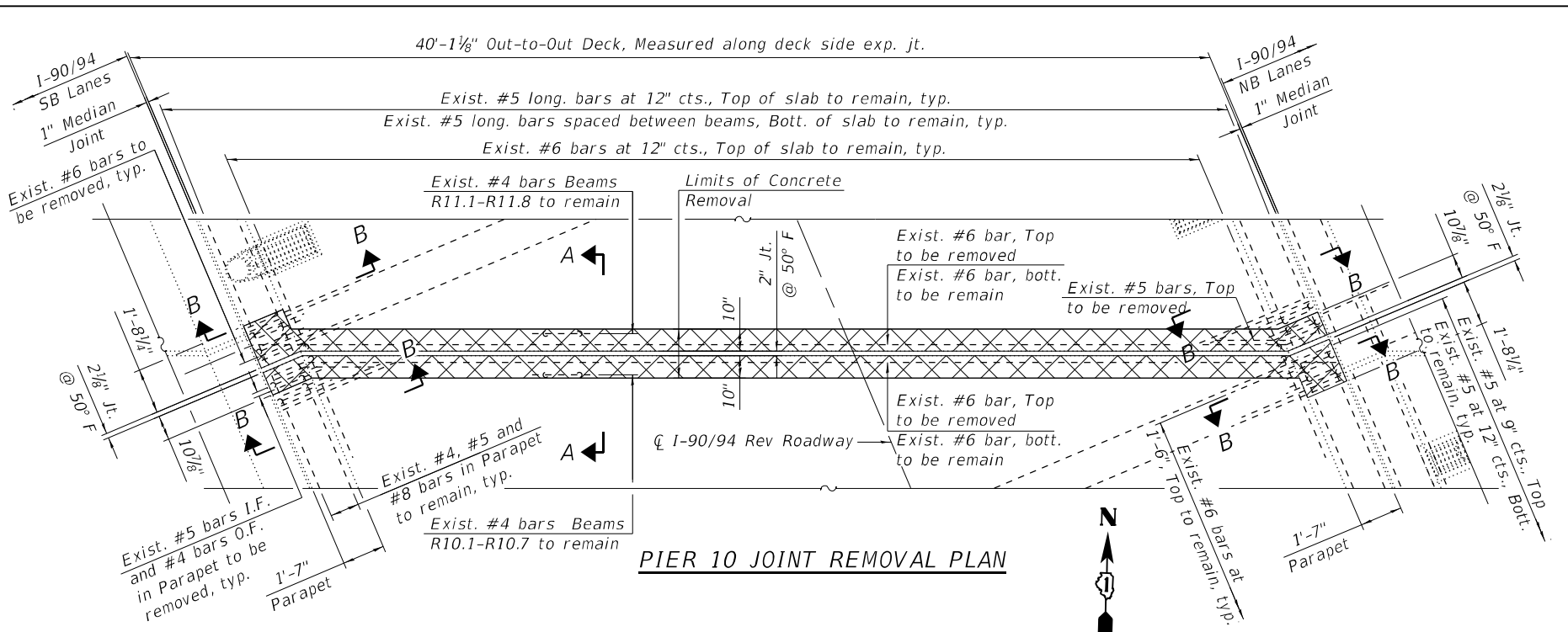
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 7 JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 016-0133 (REV)**

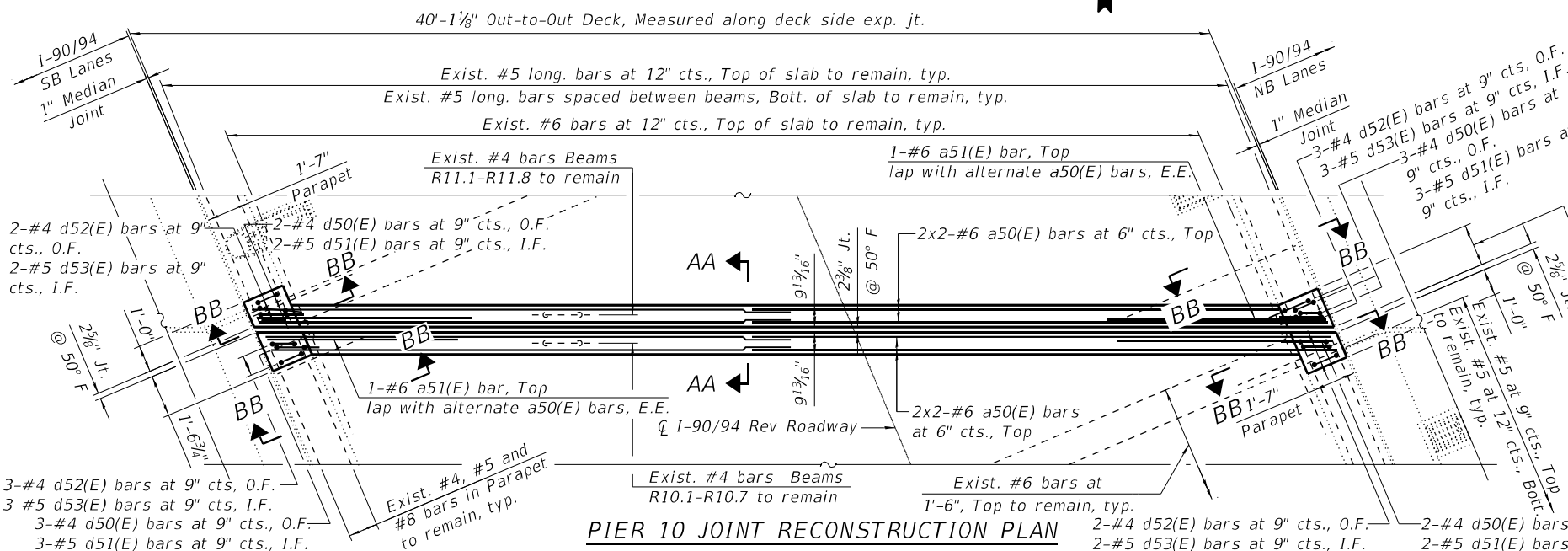
SHEET S08-22 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	639
CONTRACT NO. 62K74			ILLINOIS FED. AID PROJECT	

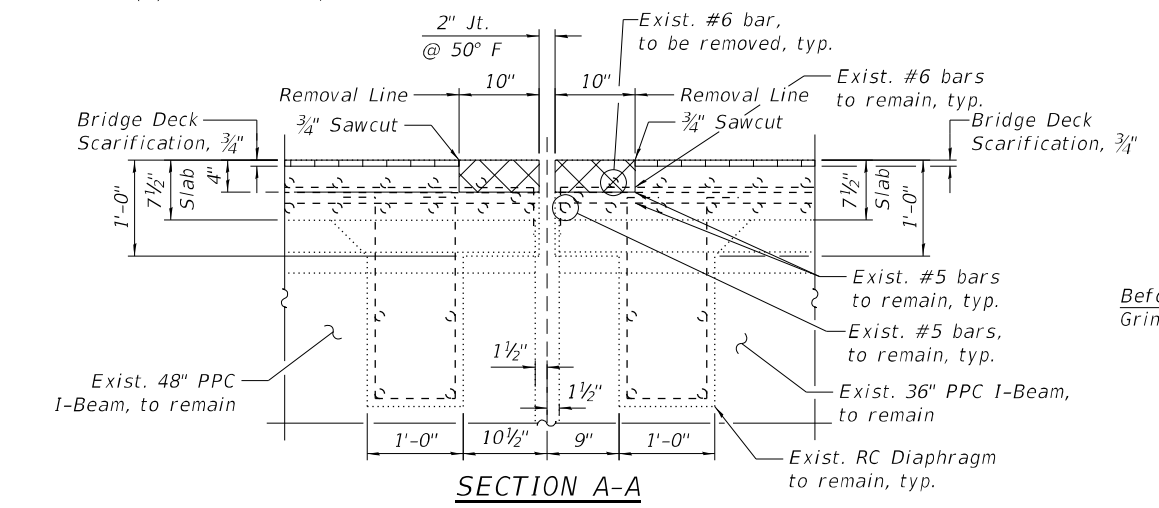
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 9/13/2022 9:35:56 AM



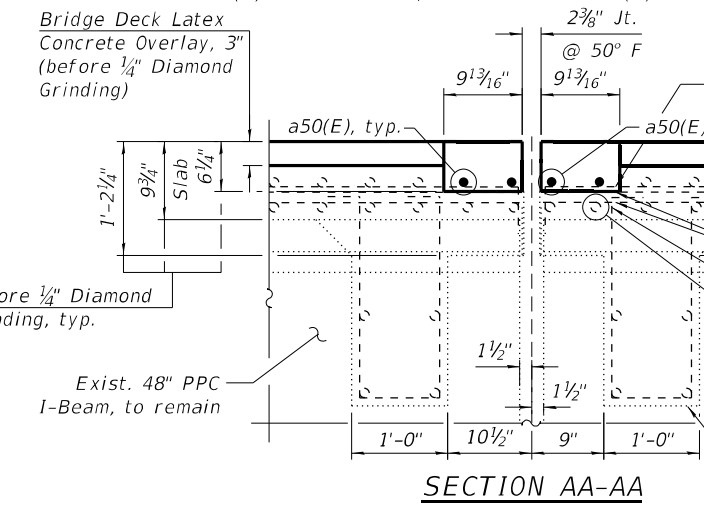
PIER 10 JOINT REMOVAL PLAN



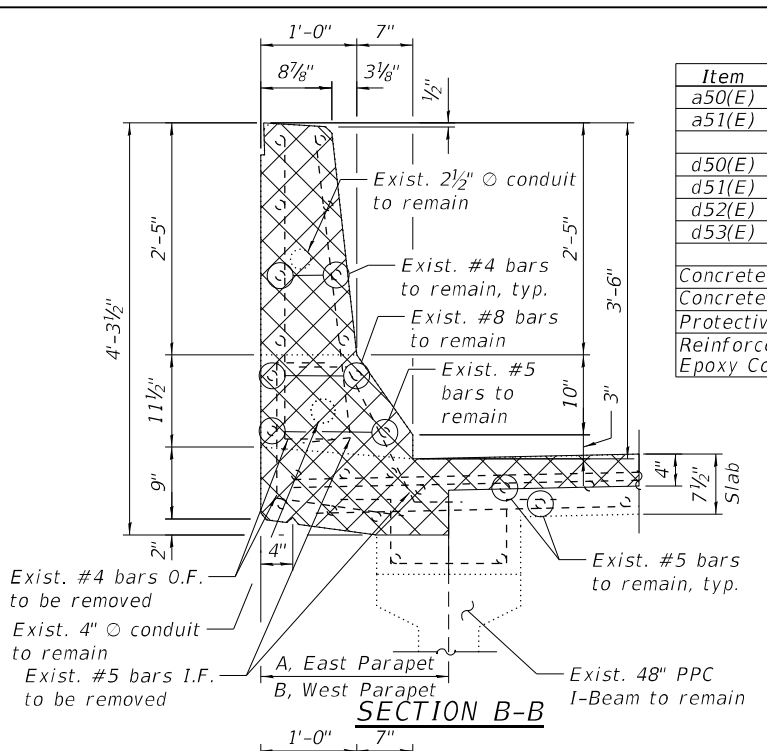
PIER 10 JOINT RECONSTRUCTION PLAN



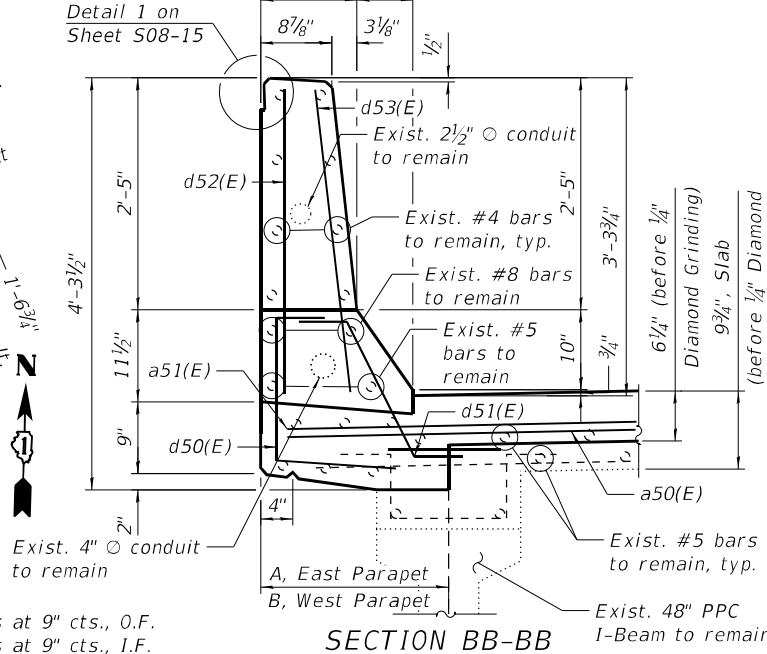
SECTION A-A



SECTION AA-AA



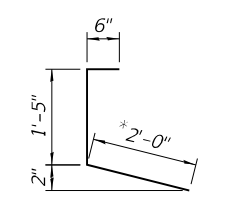
SECTION B-B



SECTION BB-BB

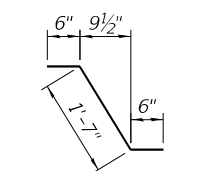
BILL OF MATERIAL

Item	No	Size	Length	Shape
a50(E)	8	#6	21'-11"	—
a51(E)	4	#6	6'-6"	—
d50(E)	10	#4	3'-11"	┌
d51(E)	10	#5	2'-7"	┌
d52(E)	10	#4	3'-8"	┌
d53(E)	10	#5	3'-8"	┌
Concrete Removal			Cu Yd	1.7
Concrete Superstructure			Cu Yd	2.1
Protective Coat			Sq Yd	8.3
Reinforcement Bars, Epoxy Coated			Pound	420

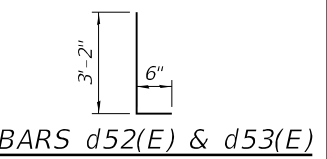


BAR d50(E)

*Cut end bar in field to fit



BAR d51(E)



BARS d52(E) & d53(E)

MIN. BAR LAPS

#6 4'-0"

NOTES:

1. For preformed joint strip seal details, see Sheet S08-45.
2. Removal and disposal of the existing expansion joint is included with Concrete Removal.

	A	B
south face	2'-11 1/2"	1'-11 1/2"
north face	3'-4 1/4"	1'-5 3/4"

LEGEND

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



USER NAME =	DESIGNED - SK	REVISED -
PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - SK	REVISED -
	DATE - 9/13/2022	REVISED -

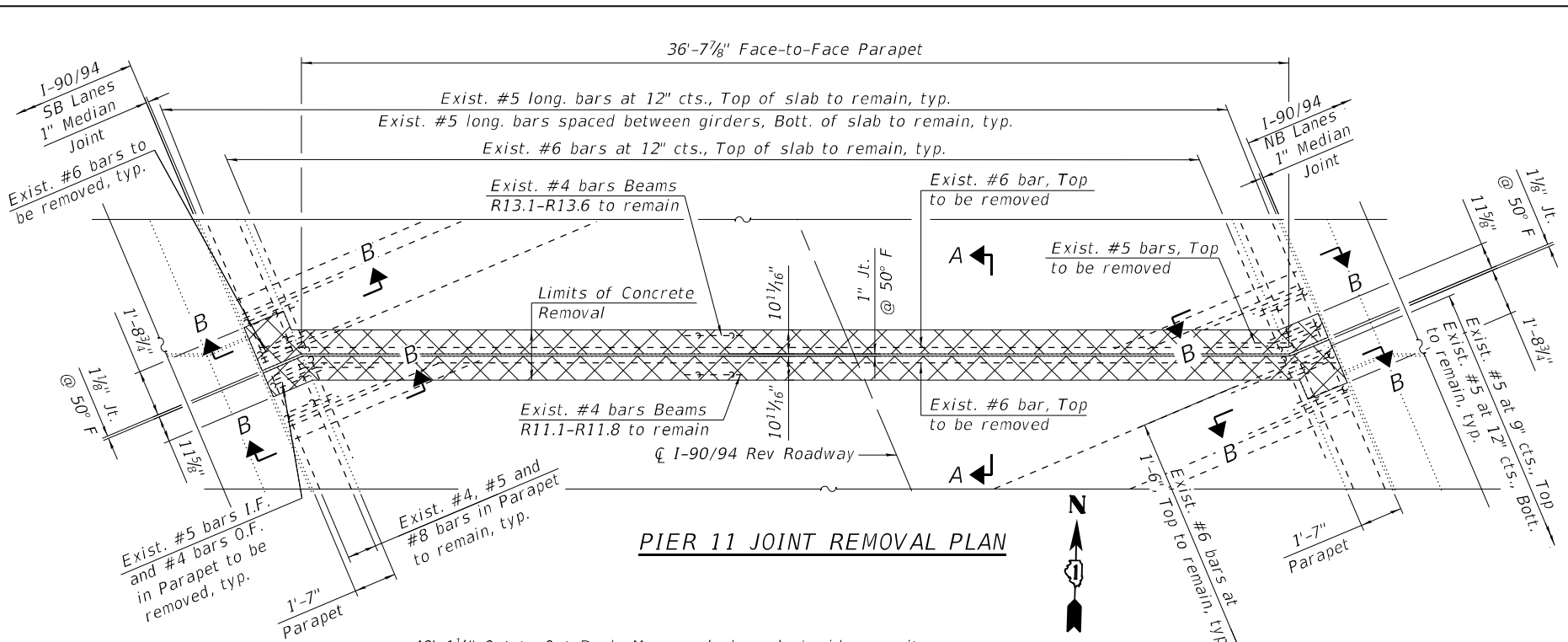
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 10 JOINT REMOVAL & REPLACEMENT
 STRUCTURE NO. 016-0133 (REV)**

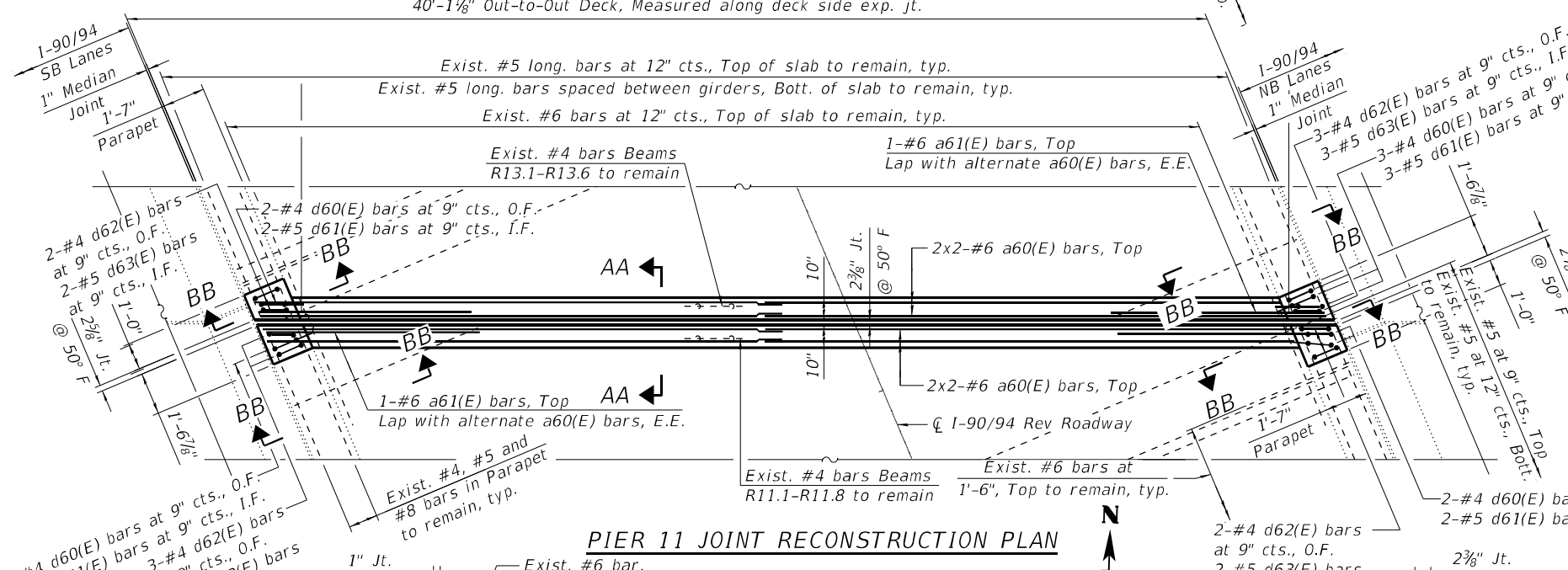
SHEET S08-23 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	640
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

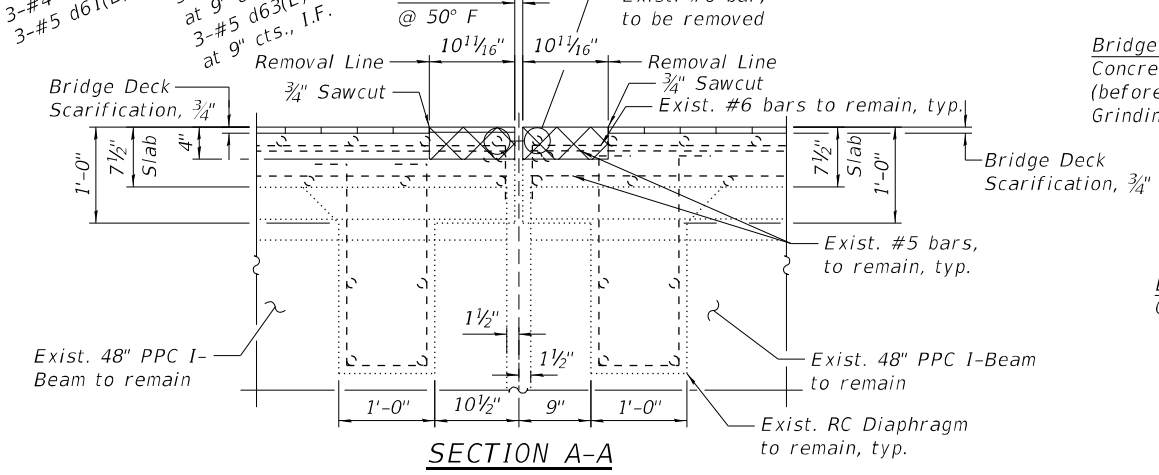
MODEL: Default
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 9/13/2022 9:35:59 AM



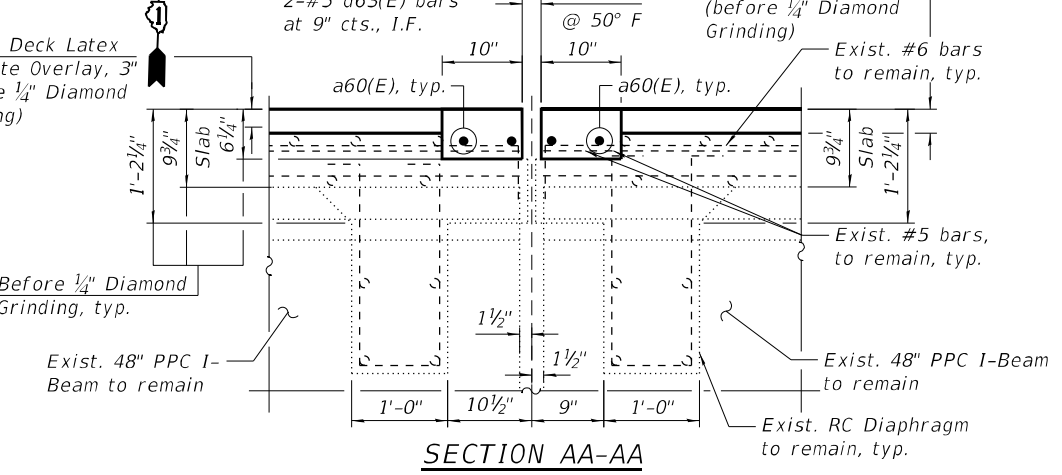
PIER 11 JOINT REMOVAL PLAN



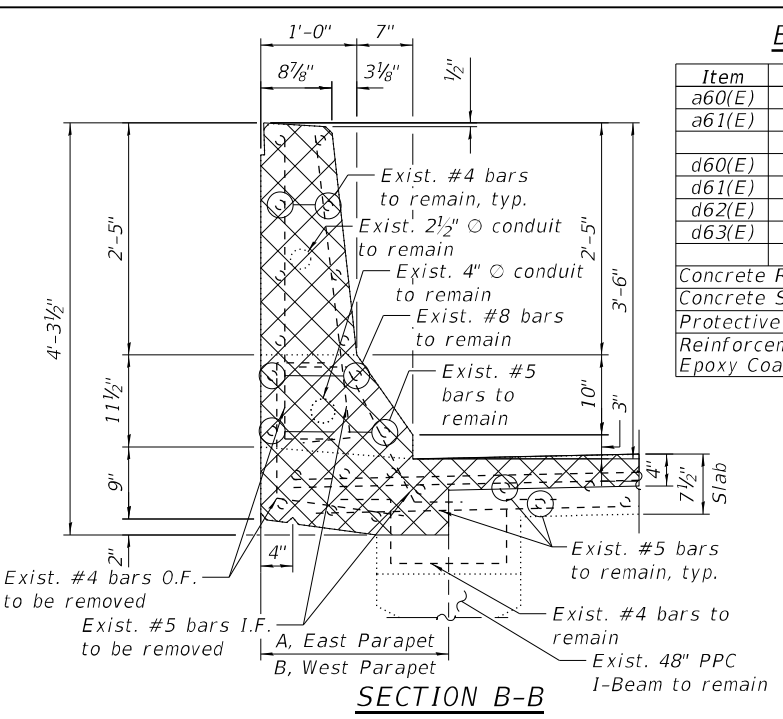
PIER 11 JOINT RECONSTRUCTION PLAN



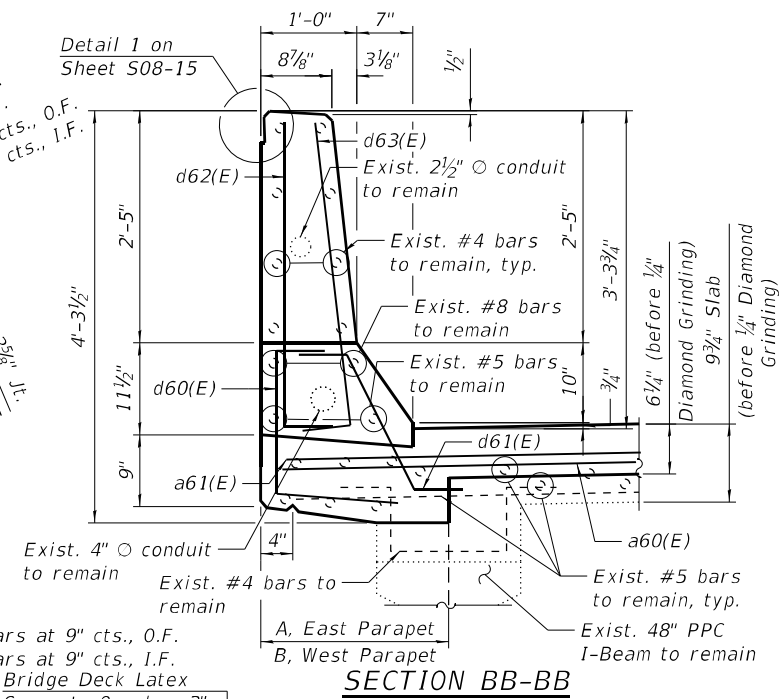
SECTION A-A



SECTION AA-AA



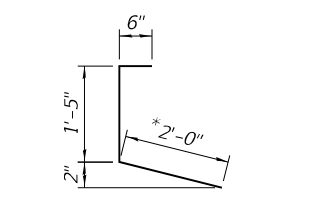
SECTION B-B



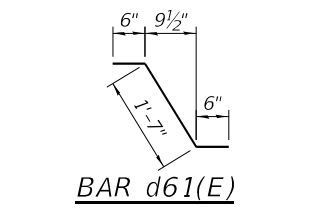
SECTION BB-BB

BILL OF MATERIAL

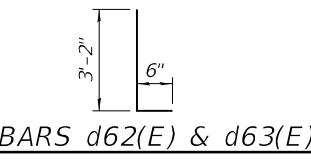
Item	No	Size	Length	Shape
a60(E)	8	#6	21'-11"	—
a61(E)	4	#6	6'-6"	—
d60(E)	10	#4	3'-11"	┌
d61(E)	10	#5	2'-7"	┌
d62(E)	10	#4	3'-8"	┌
d63(E)	10	#5	3'-8"	┌
Concrete Removal		Cu Yd	1.5	
Concrete Superstructure		Cu Yd	1.9	
Protective Coat		Sq Yd	8.5	
Reinforcement Bars, Epoxy Coated		Pound	420	



BAR d60(E)
*Cut end bar in field to fit



BAR d61(E)



BARS d62(E) & d63(E)

MIN. BAR LAPS
#6 4'-0"

- NOTES:**
- For preformed joint strip seal details, see Sheet S08-45.
 - Removal and disposal of the existing joint is included with Concrete Removal.

LEGEND

	A	B
Concrete Removal	3'-4 1/2"	1'-5 3/4"
south face	3'-4 1/2"	1'-5 3/4"
north face	2'-11 1/2"	1'-10 3/4"

- LEGEND**
- Concrete Removal
 - I.F. Inside Face
 - O.F. Outside Face
 - E.E. Each End
 - E.S. Each Side

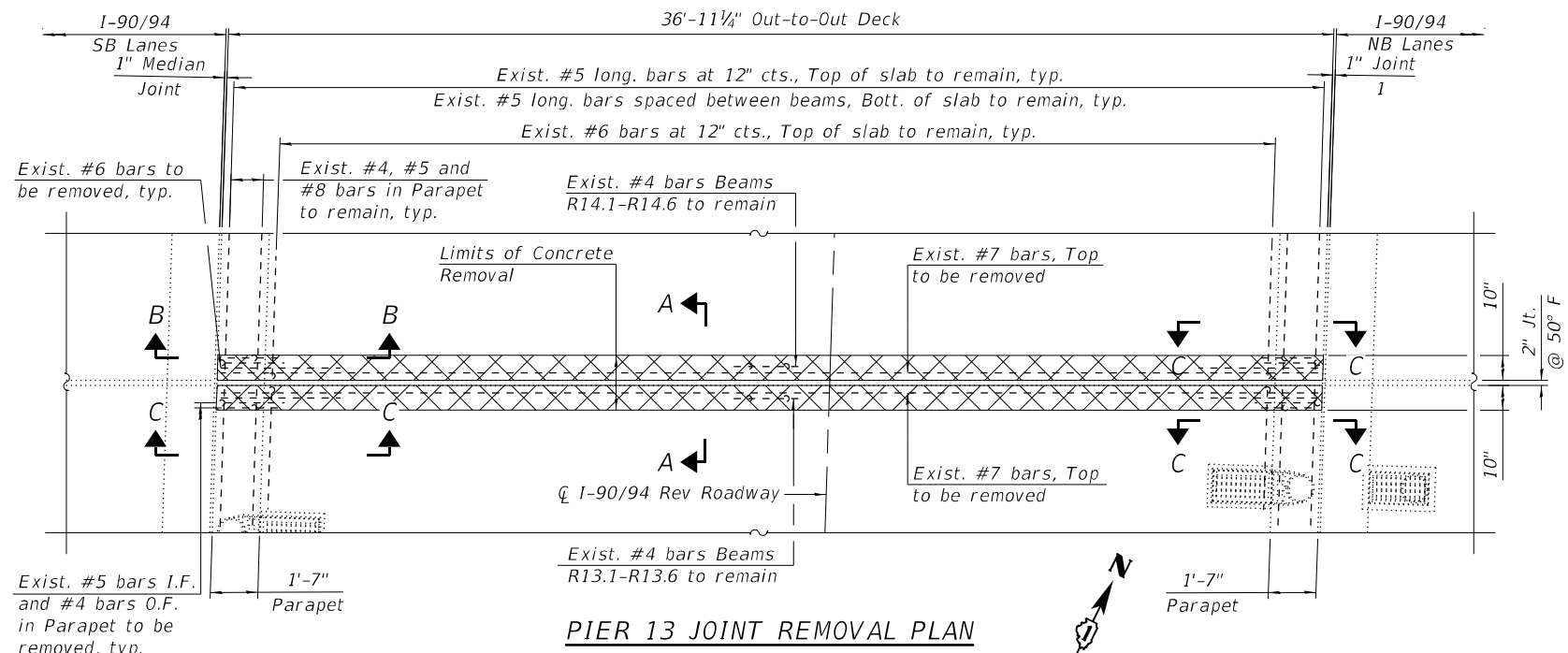


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PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - SK	REVISED -
	DATE - 9/13/2022	REVISED -

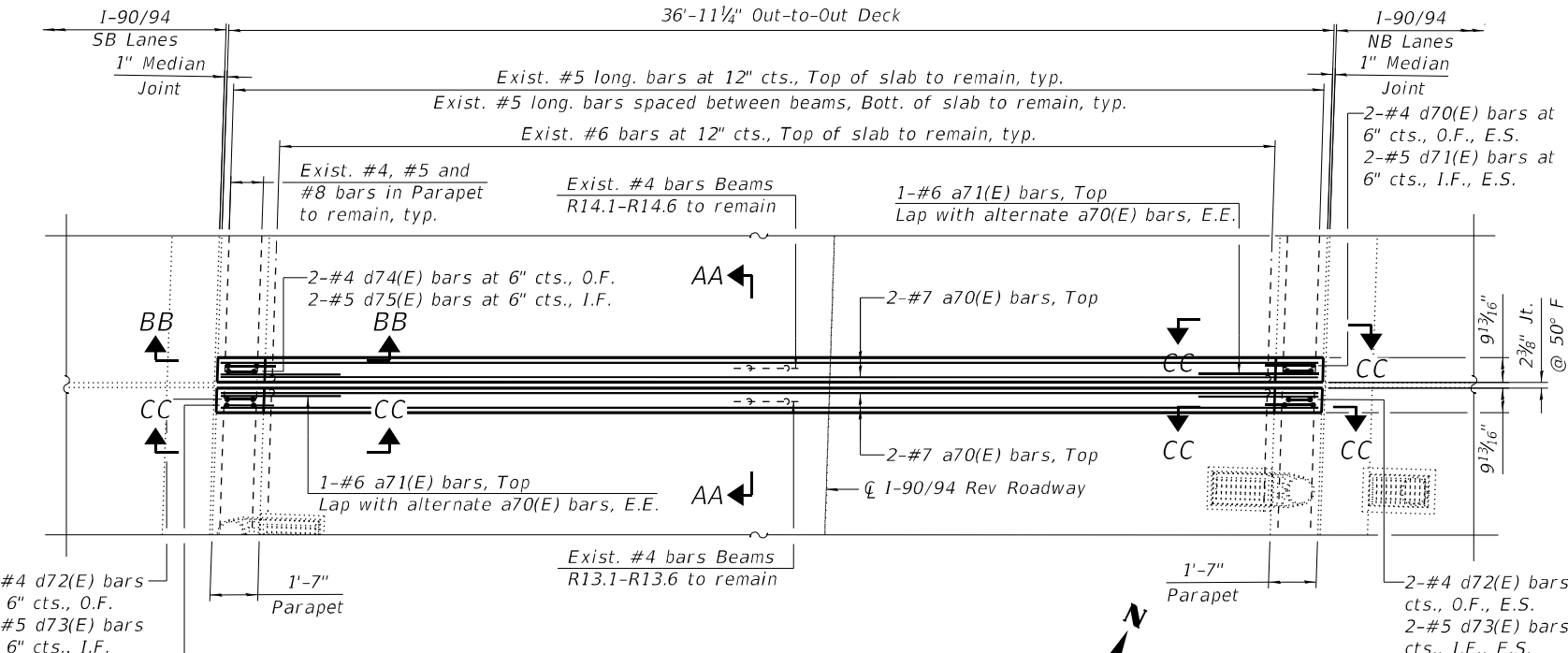
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 11 JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 016-0133 (REV)
 SHEET S08-24 OF S08-78 SHEETS

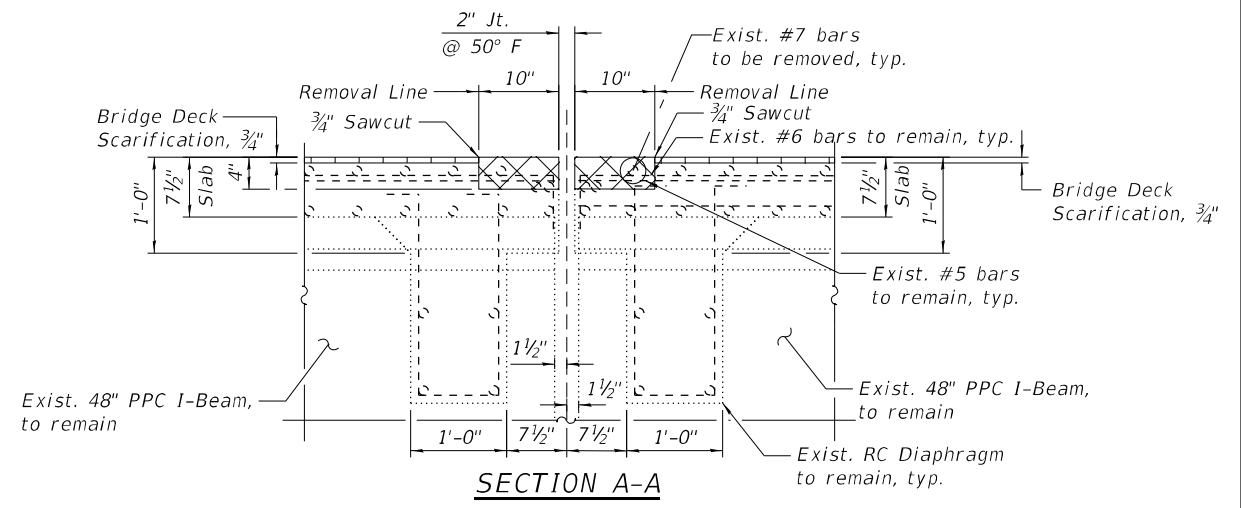
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	641
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



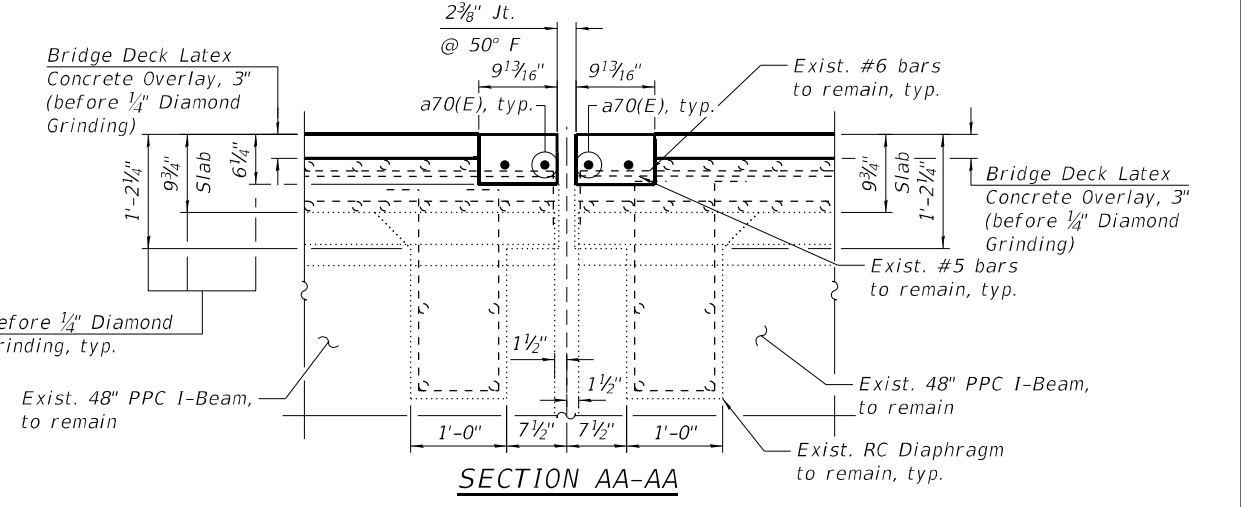
PIER 13 JOINT REMOVAL PLAN



PIER 13 JOINT RECONSTRUCTION PLAN



SECTION A-A



SECTION AA-AA

LEGEND

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

NOTE:

1. For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-26.

MODEL: Default
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USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MAI	REVISED -	
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PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

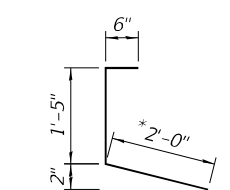
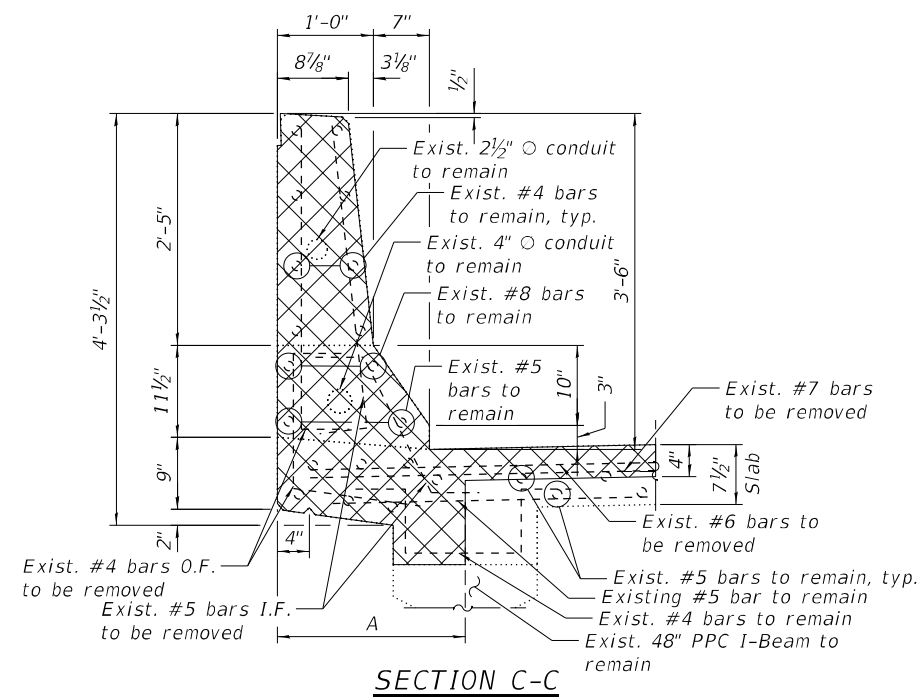
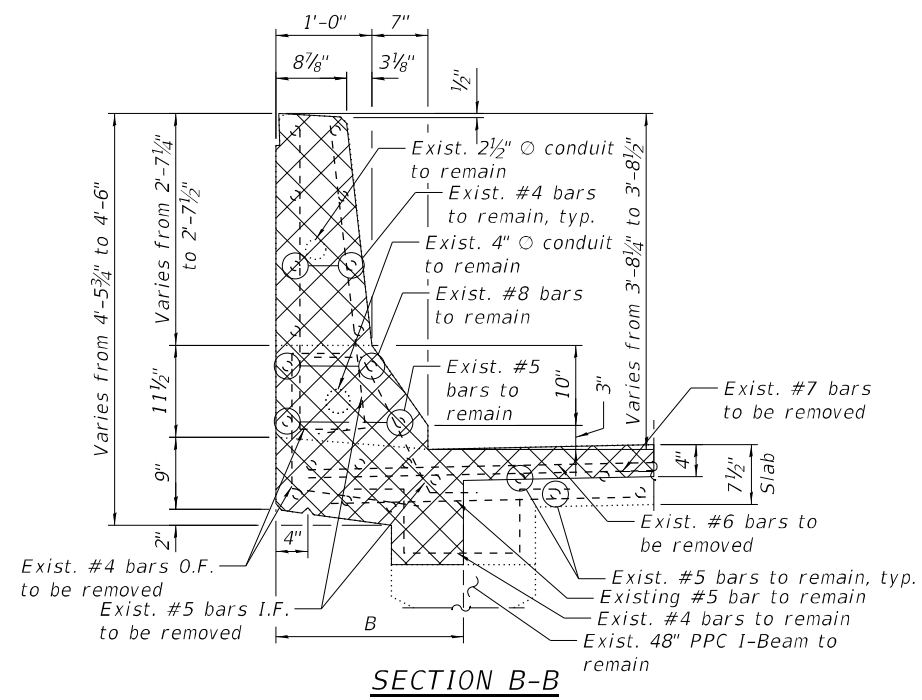
**PIER 13 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
STRUCTURE NO. 016-0133 (REV)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	642
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

SHEET S08-25 OF S08-78 SHEETS

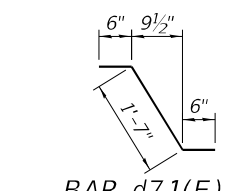
BILL OF MATERIAL

Item	No	Size	Length	Shape
a70(E)	4	#7	36'-7"	—
a71(E)	4	#6	6'-6"	—
d70(E)	8	#4	3'-11"	┌
d71(E)	8	#5	2'-7"	┌
d72(E)	6	#4	3'-8"	┌
d73(E)	6	#5	3'-8"	┌
d74(E)	2	#4	3'-11"	┌
d75(E)	2	#5	3'-11"	┌
Concrete Removal			Cu Yd	1.4
Concrete Superstructure			Cu Yd	1.7
Protective Coat			Sq Yd	7.7
Reinforcement Bars, Epoxy Coated			Pound	440

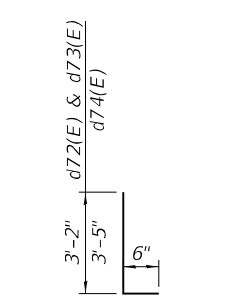


BAR d70(E)
*Cut end bar in field to fit

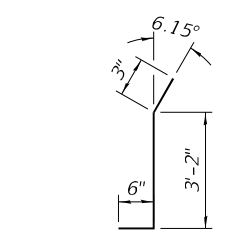
	A	B
south face	2'-11 1/2"	1'-10 3/4"
north face	2'-10 3/4"	1'-11 1/2"



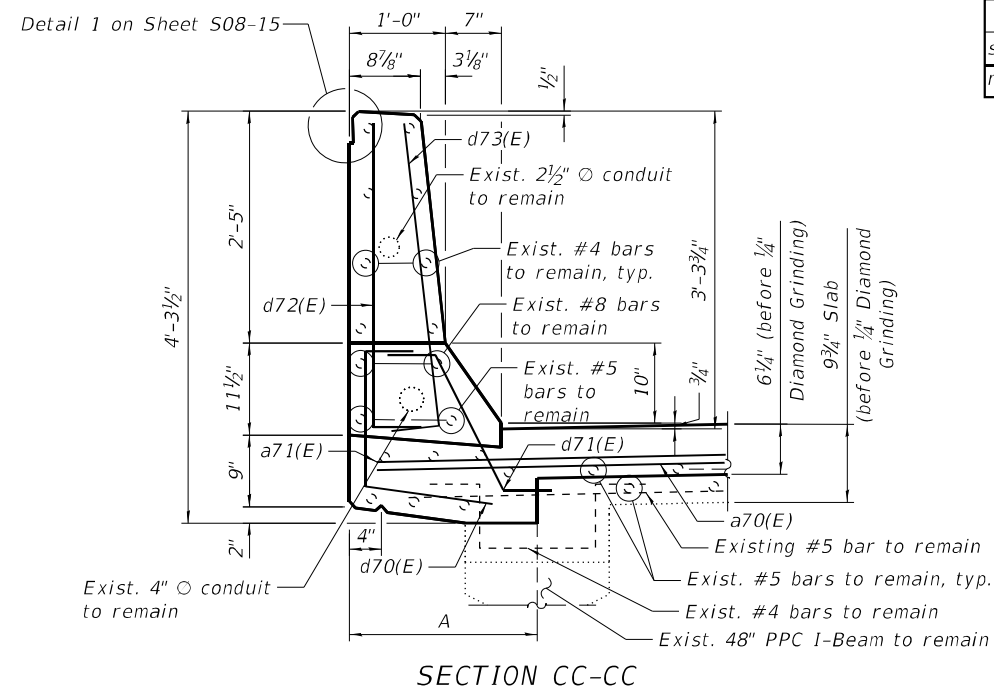
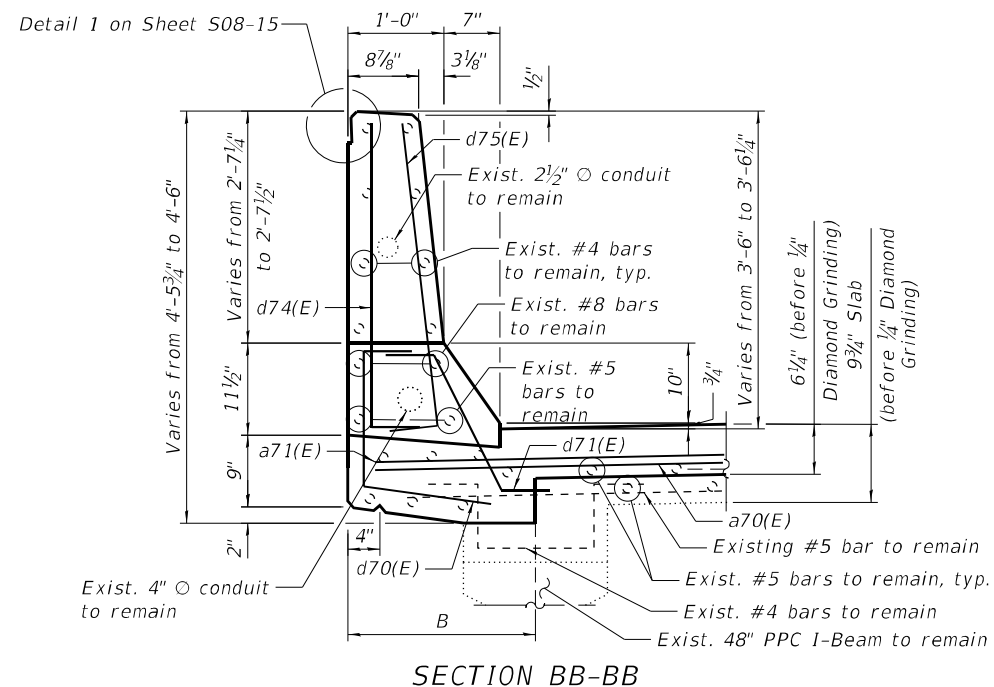
BAR d71(E)



BARS d72(E), d73(E) & d74(E)



BAR d75(E)



NOTES:

1. For legend, see Sheet S08-25.
2. For preformed joint strip seal details, see Sheet S08-45.
3. Removal and disposal of the existing expansion joints is included with Concrete Removal.

MODEL: Default
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9/13/2022 9:36:04 AM



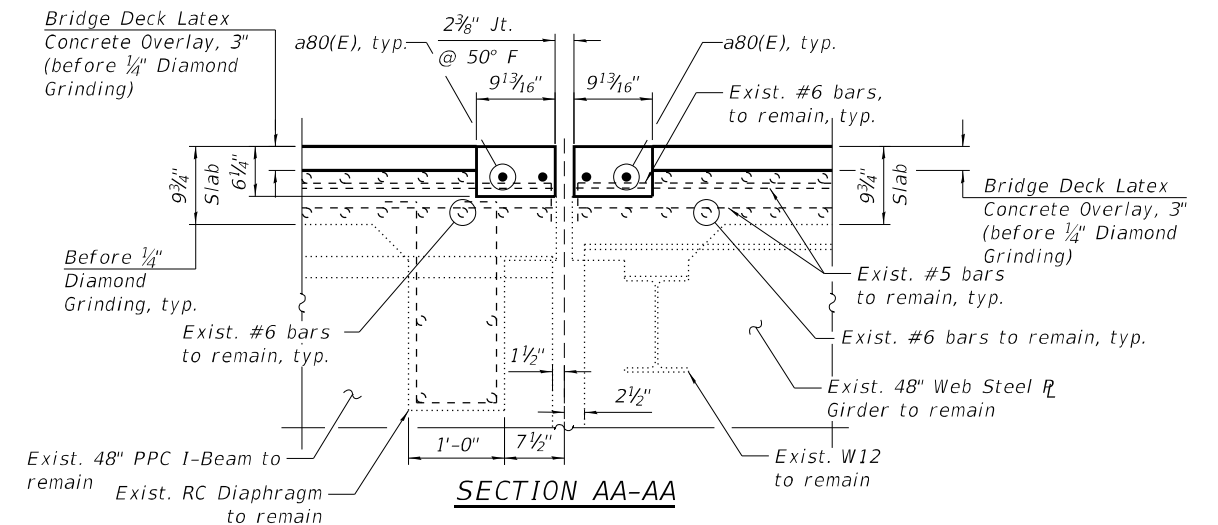
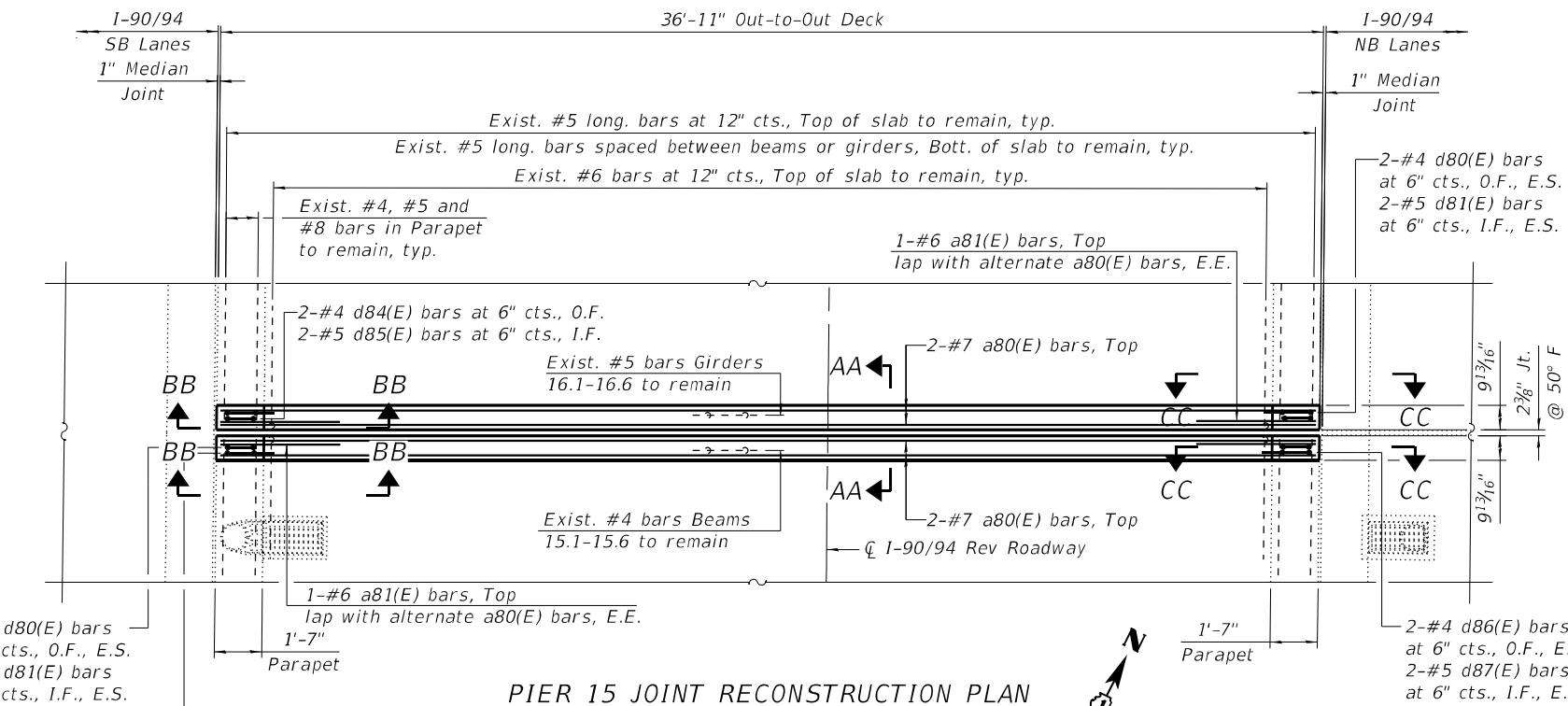
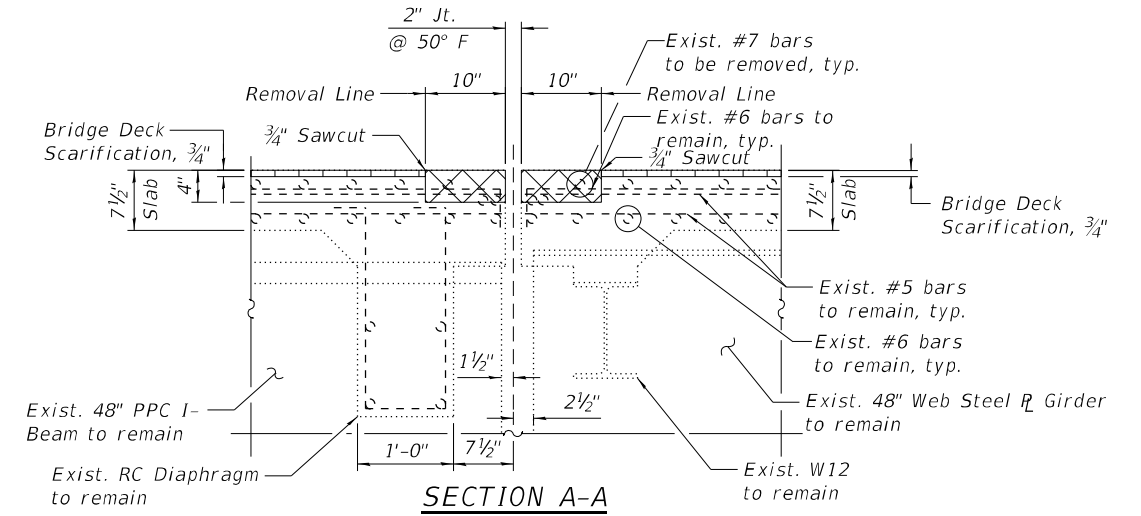
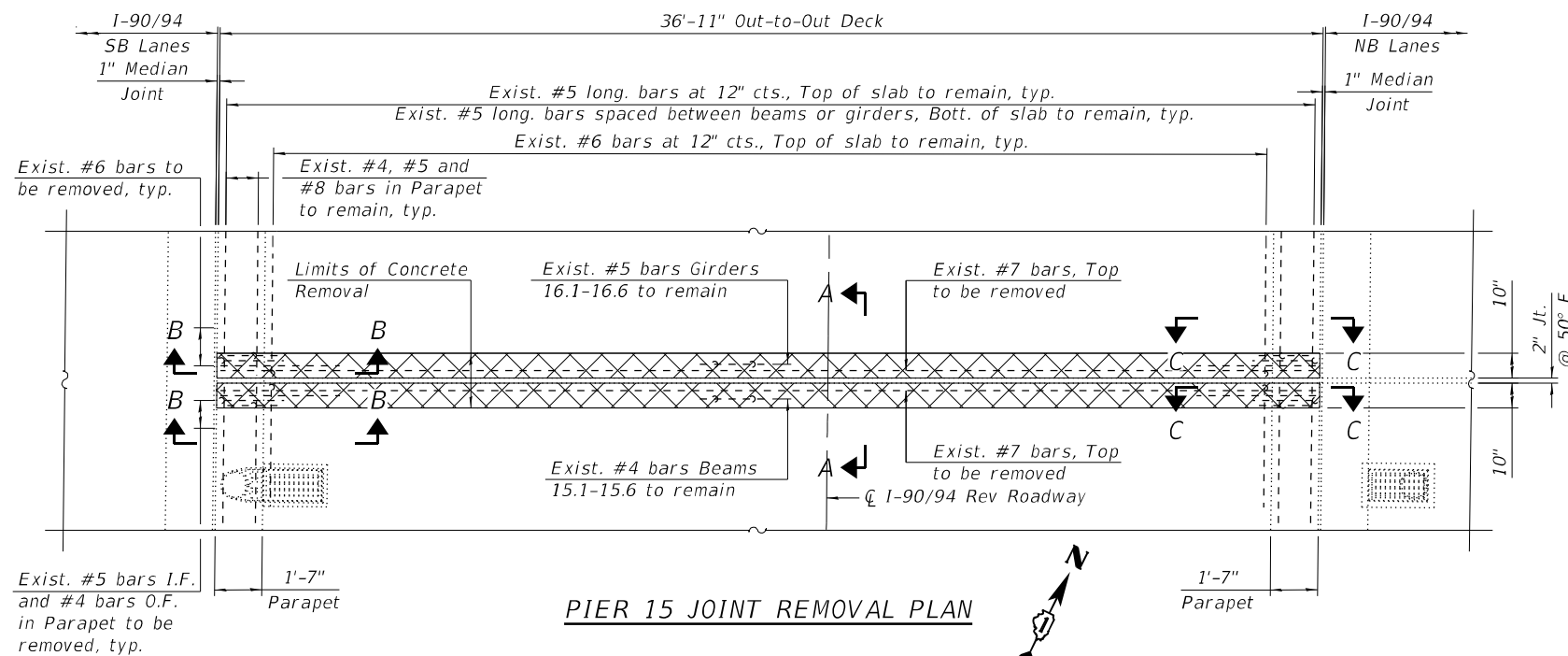
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PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - AMS	REVISED -
	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 13 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-26 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	643
			CONTRACT NO. 62K74	
		ILLINOIS FED. AID PROJECT		



LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side

NOTE:

1. For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-28.

MODEL: Default
FILE NAME: P:\2004-824-PTB195-010-GRAEF\WO#4 1-90-SB & Rev. Var. Overlays - Ashland Rev\Sheet_Files\0160133-62K74-526-Pier15_Exp. JI Removal\Constr.dgn
9/13/2022 9:36:06 AM



USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MAI	REVISIONS -	
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PLOT DATE =	DATE - 9/13/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

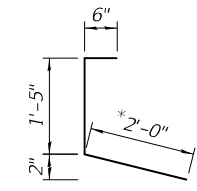
PIER 15 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
STRUCTURE NO. 016-0133 (REV)

SHEET S08-27 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	644
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

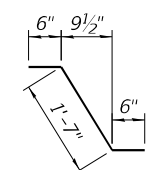
BILL OF MATERIAL

Item	No	Size	Length	Shape
a80(E)	4	#7	36'-7"	—
a81(E)	4	#6	6'-6"	—
d80(E)	8	#4	3'-11"	┌
d81(E)	8	#5	2'-7"	┌
d82(E)	2	#4	4'-3"	┌
d83(E)	2	#5	4'-3"	┌
d84(E)	2	#4	4'-8"	┌
d85(E)	2	#5	4'-8"	┌
d86(E)	4	#4	3'-8"	┌
d87(E)	4	#5	3'-8"	┌
Concrete Removal		Cu Yd	1.3	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	19.1	
Reinforcement Bars, Epoxy Coated		Pound	440	

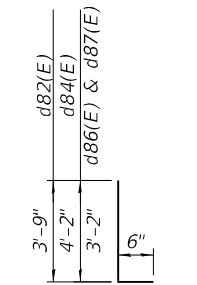


BAR d80(E)

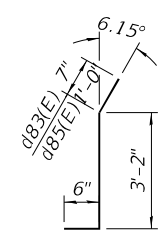
*Cut end bar in field to fit



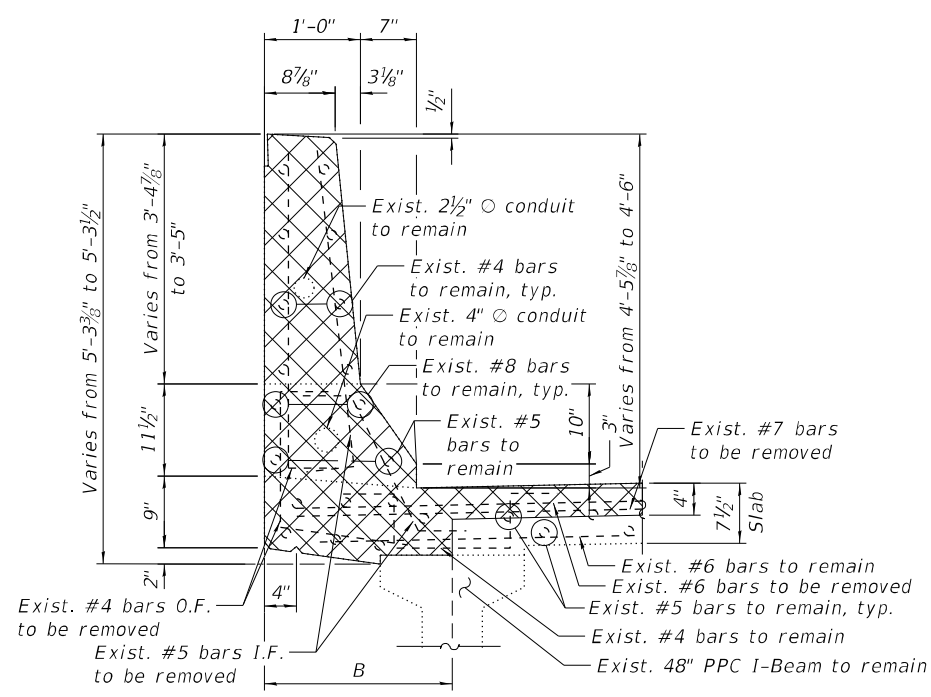
BAR d81(E)



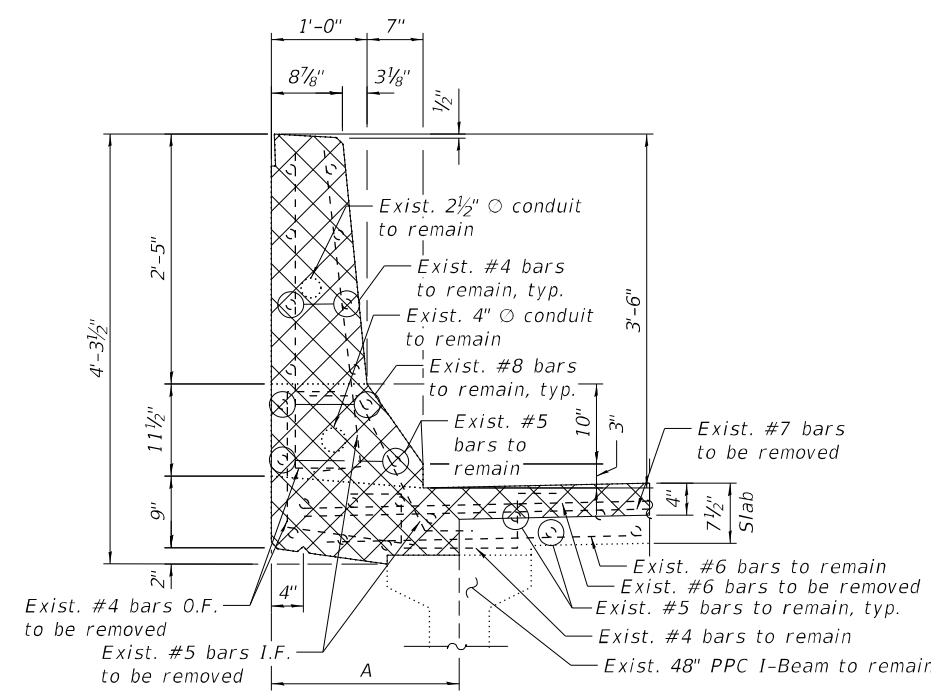
BARS d82(E), d84(E), d86(E) & d87(E)



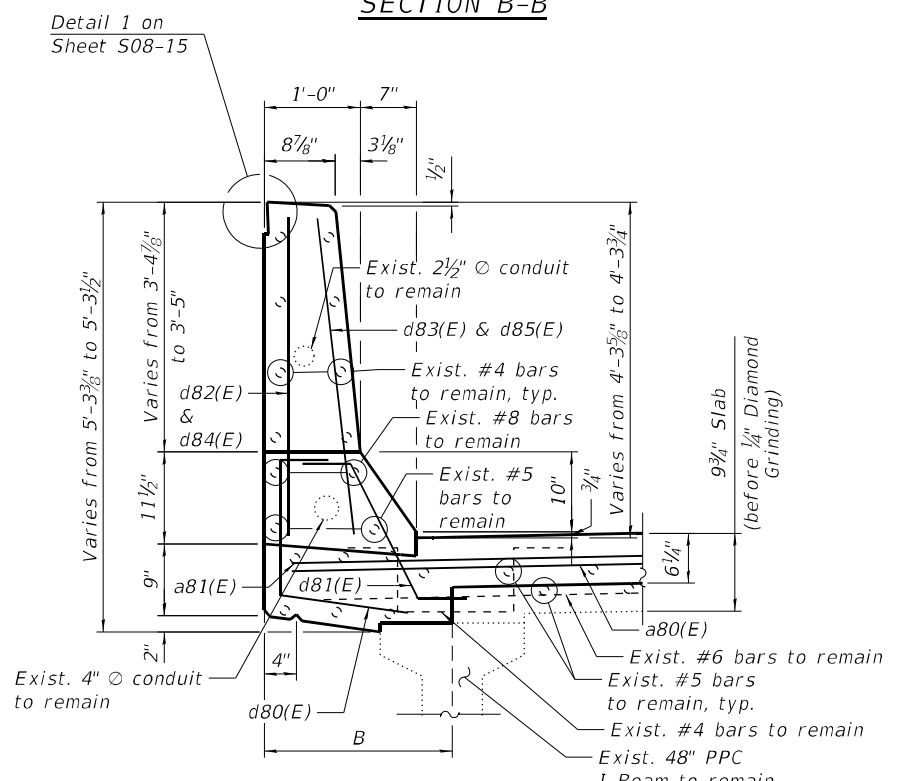
BAR d83(E) & d85(E)



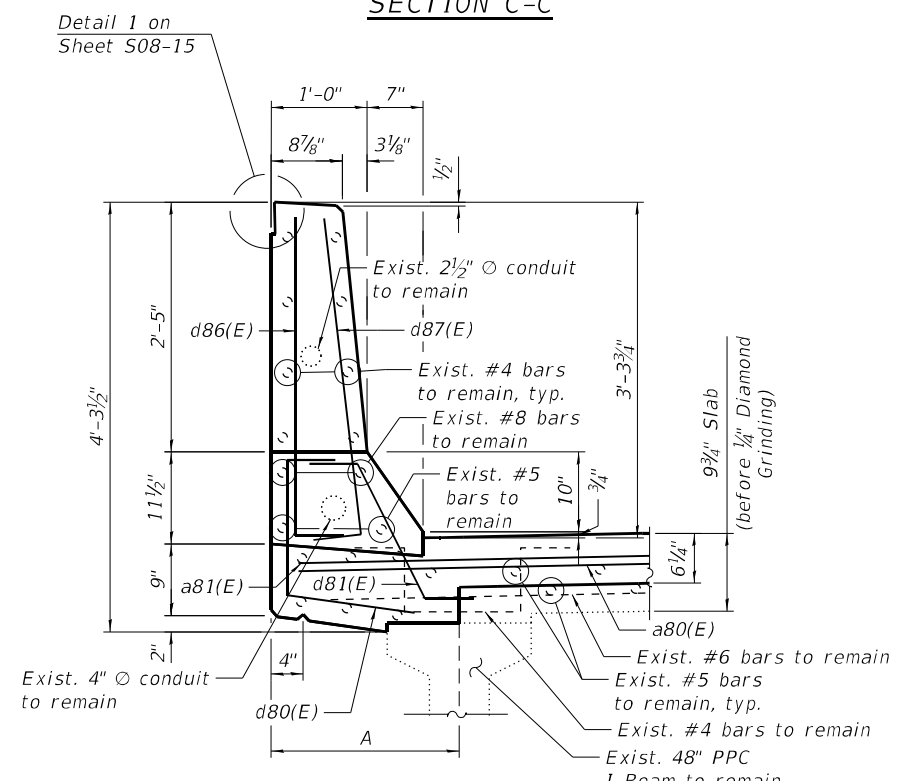
SECTION B-B



SECTION C-C



SECTION BB-BB



SECTION CC-CC

	A	B
south face	2'-9"	2'-1 1/8"
north face	2'-3 3/8"	10 1/2"

NOTES:

1. For legend, see Sheet S08-27.
2. For preformed joint strip seal details, see Sheet S08-45.
3. Removal and disposal of the existing expansion joints is included with Concrete Removal.

MODEL: Default
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9/13/2022 9:36:08 AM



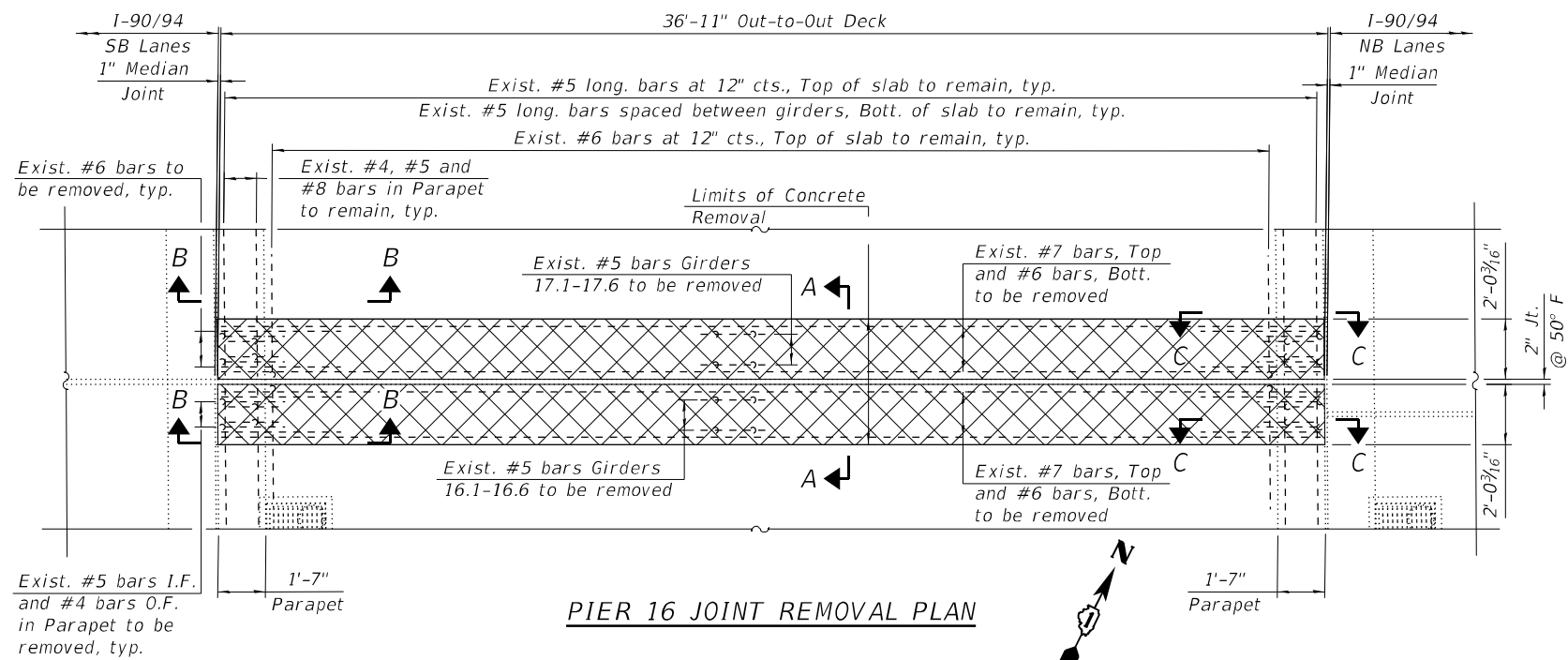
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CHECKED - MAI	REVISED -	
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PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

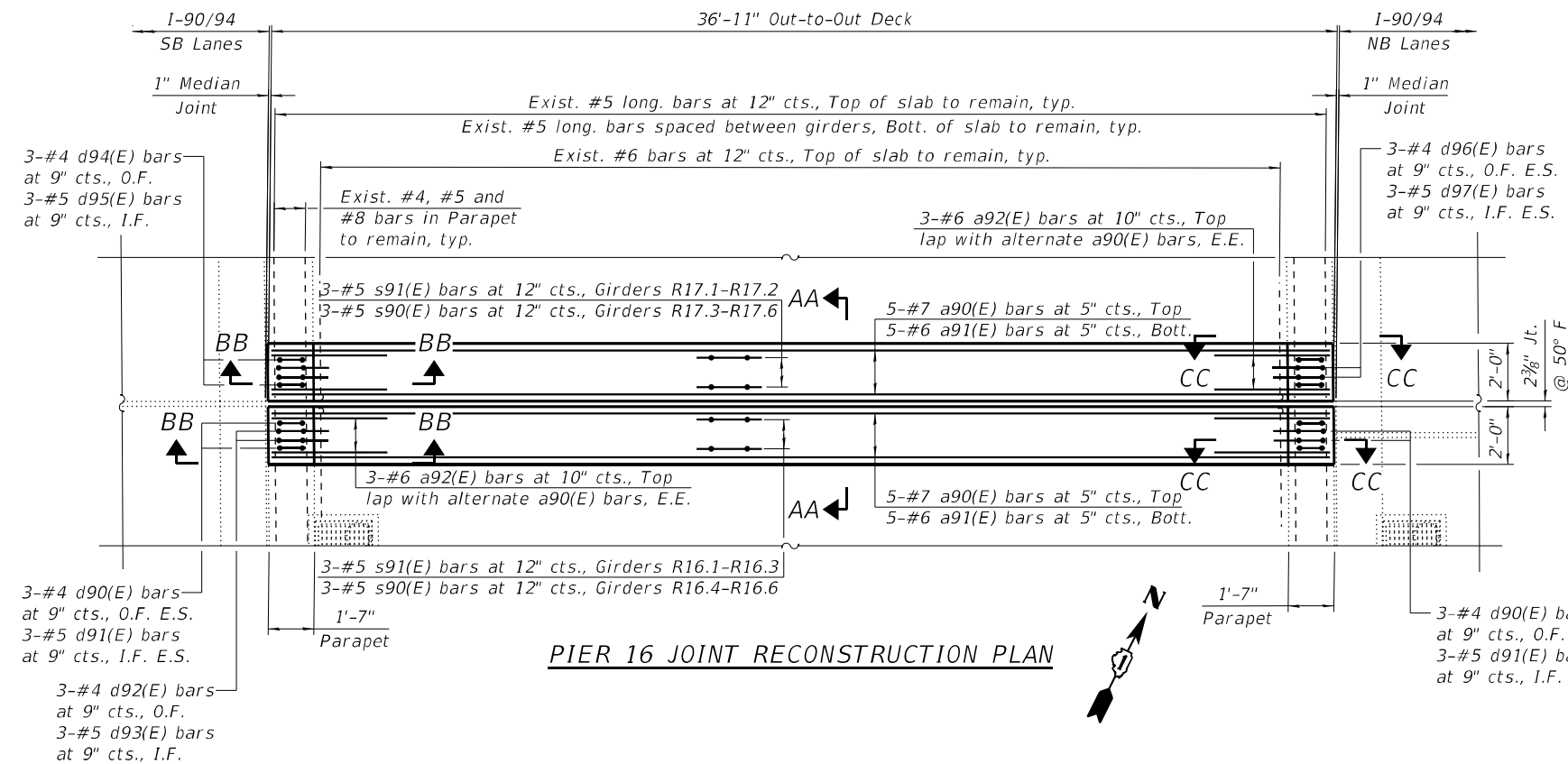
**PIER 15 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-28 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	645
CONTRACT NO. 62K74				
		ILLINOIS	FED. AID PROJECT	



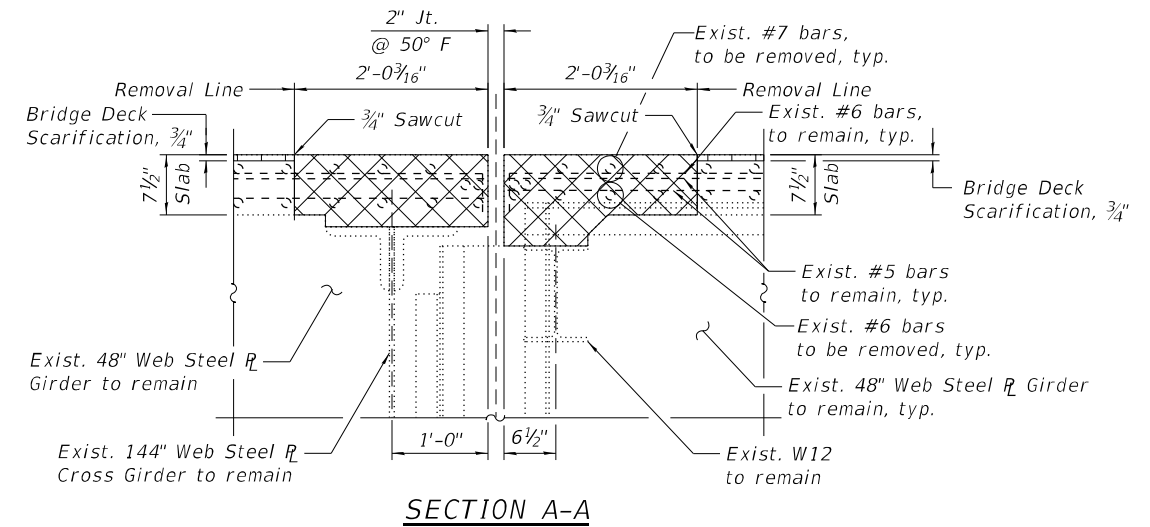
PIER 16 JOINT REMOVAL PLAN



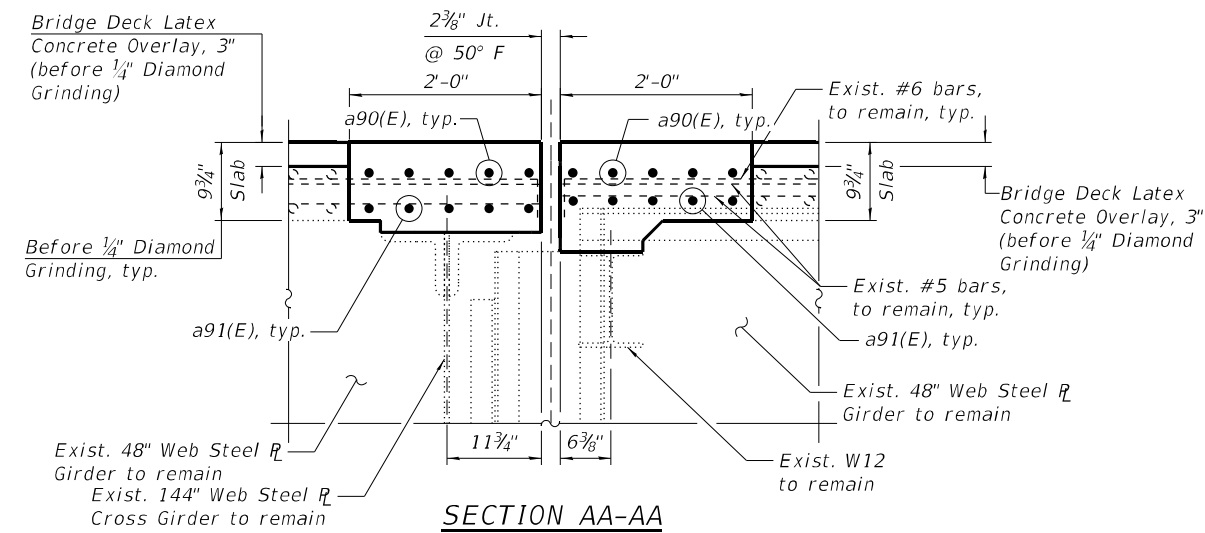
PIER 16 JOINT RECONSTRUCTION PLAN

NOTE:

- For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-30.



SECTION A-A



SECTION AA-AA

LEGEND

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

MODEL: Default
FILE NAME: P:\2004-824-PTB195-010-GRAEF\WO#4 1-90_SB & Rev. Var. Overlays - Ashland Rev\Sheet Files\0160133-62K74-527-Pier_16_Exp.It_Removal&Constr.rdg



USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MAI	REVISIONS -	
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PLOT DATE =	DATE - 9/13/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

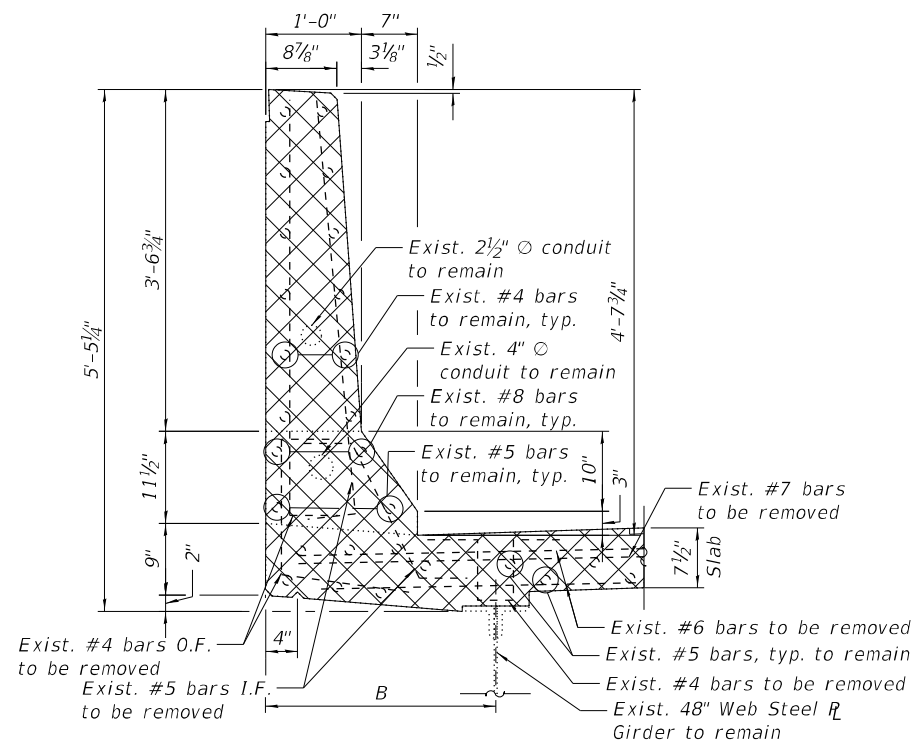
PIER 16 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
STRUCTURE NO. 016-0133 (REV)

SHEET S08-29 OF S08-78 SHEETS

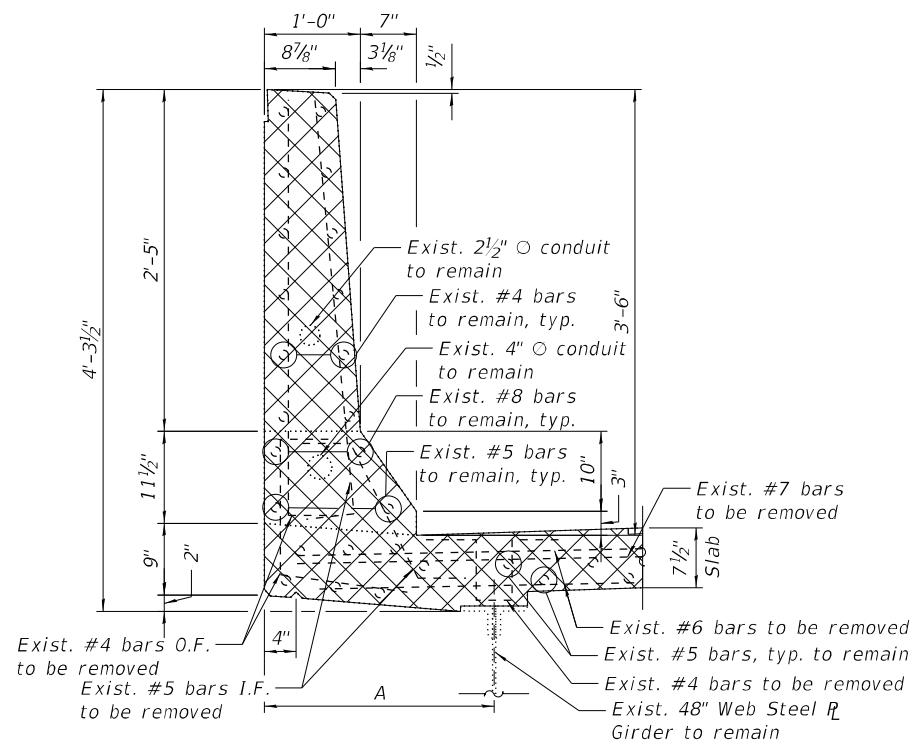
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9094	2020-004-BR	COOK	1492	646
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

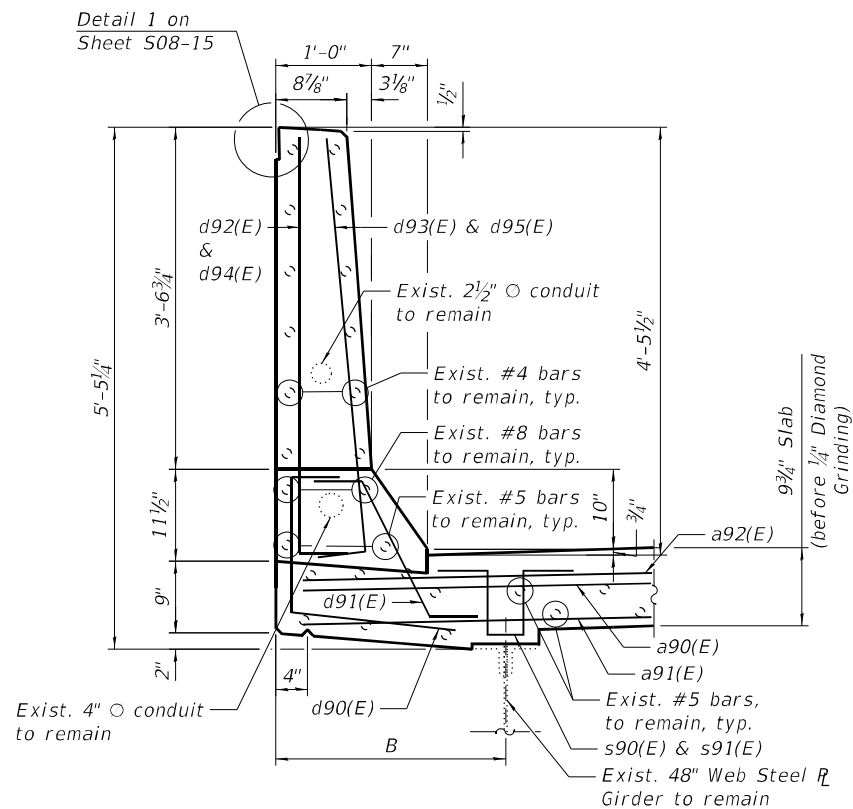
Item	No	Size	Length	Shape
a90(E)	10	#7	36'-7"	—
a91(E)	10	#6	36'-7"	—
a92(E)	12	#6	6'-6"	—
d90(E)	12	#4	3'-11"	┌
d91(E)	12	#5	2'-7"	┌
d92(E)	3	#4	4'-8"	┌
d93(E)	3	#5	4'-8"	┌
d94(E)	3	#4	4'-10"	┌
d95(E)	3	#5	4'-10"	┌
d96(E)	6	#4	3'-8"	┌
d97(E)	6	#5	3'-8"	┌
s90(E)	21	#5	2'-9"	┌
s91(E)	15	#5	3'-5"	┌
Concrete Removal		Cu Yd	5.4	
Concrete Superstructure		Cu Yd	6.4	
Protective Coat		Sq Yd	19.2	
Reinforcement Bars, Epoxy Coated		Pound	1,680	



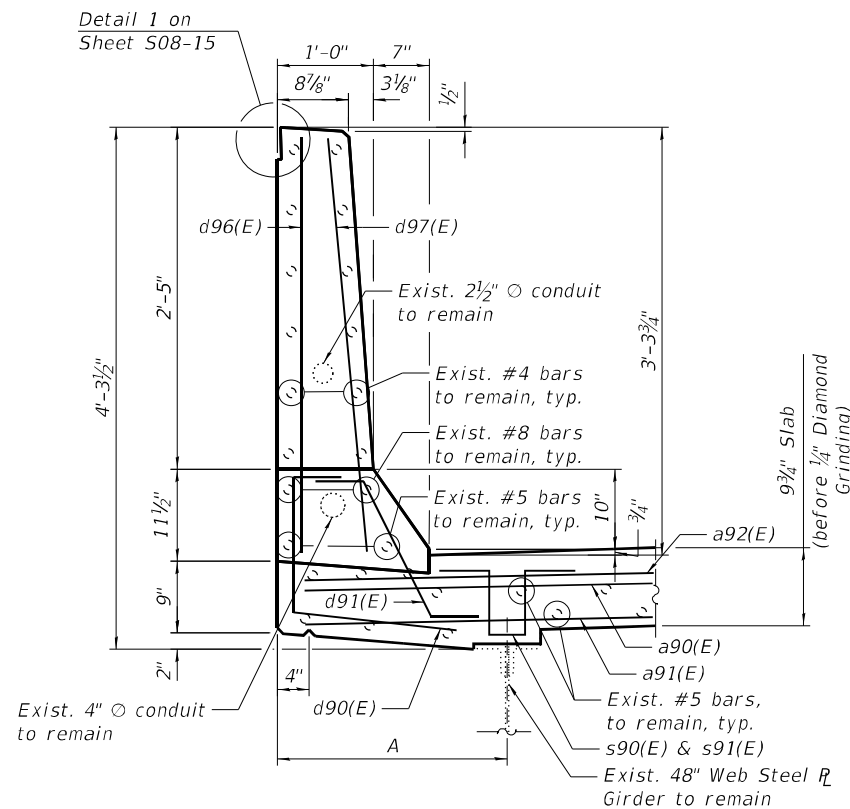
SECTION B-B



SECTION C-C

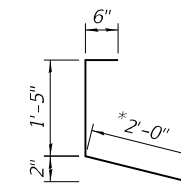


SECTION BB-BB



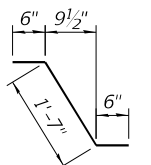
SECTION CC-CC

	A	B
south face	2'-4 1/4"	1'-9 1/8"
north face	2'-3 1/2"	1'-9 1/2"

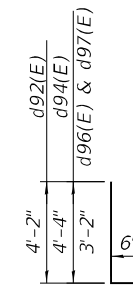


BAR d90(E)

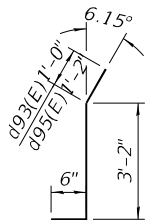
*Cut end bar in field to fit



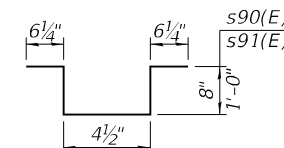
BAR d91(E)



BARS d92(E), d94(E), d96(E) & d97(E)



BAR d93(E) & d95(E)



BAR s90(E) & s91(E)

NOTES:

- For legend, see Sheet S08-29.
- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.

MODEL: Default
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9/13/2022 9:36:13 AM



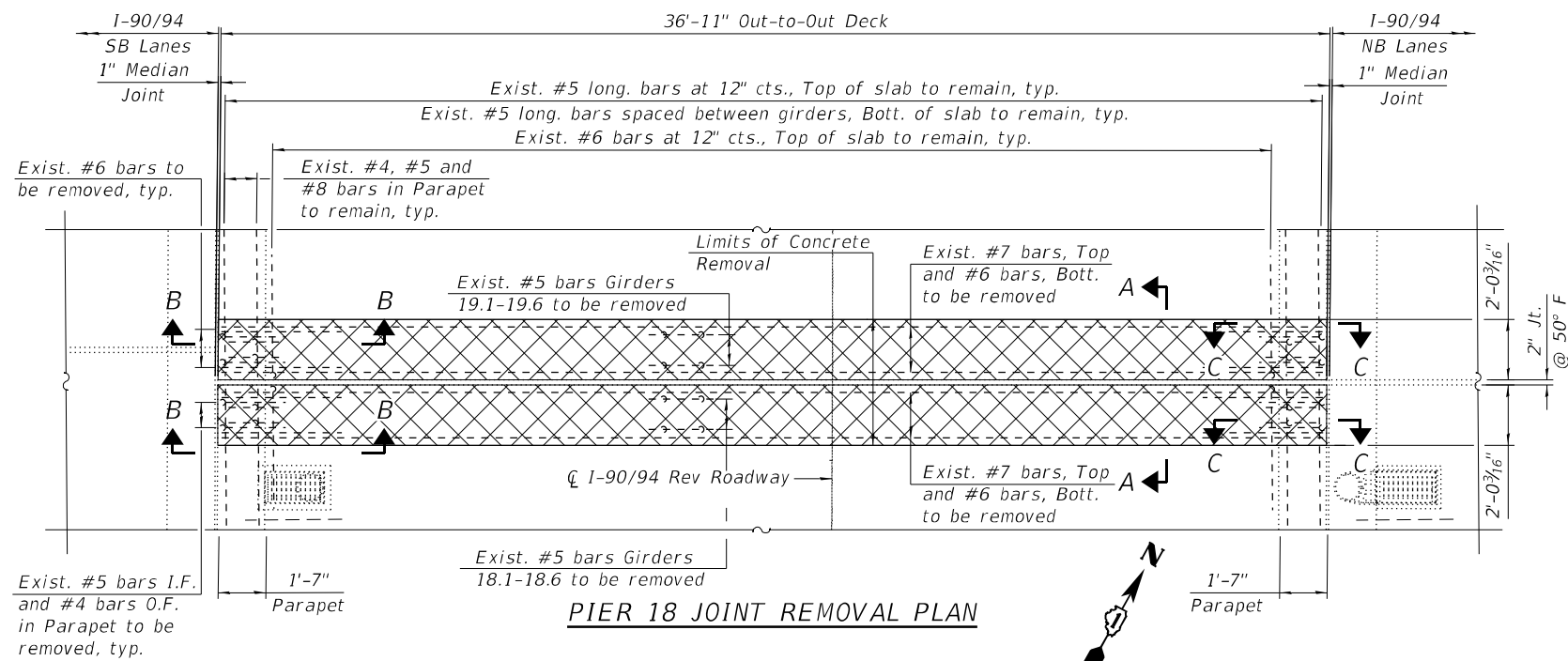
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	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

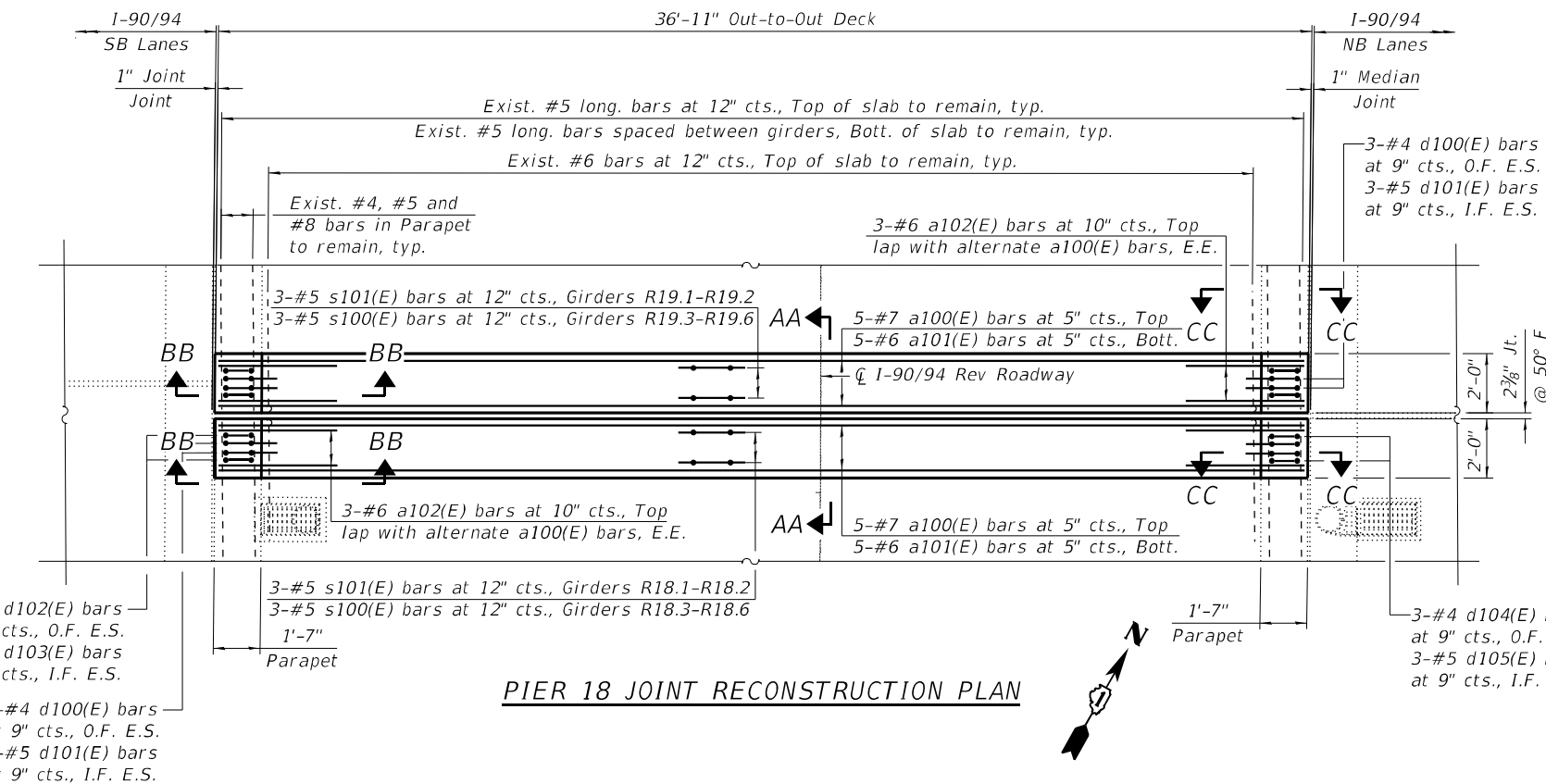
**PIER 16 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-30 OF S08-78 SHEETS

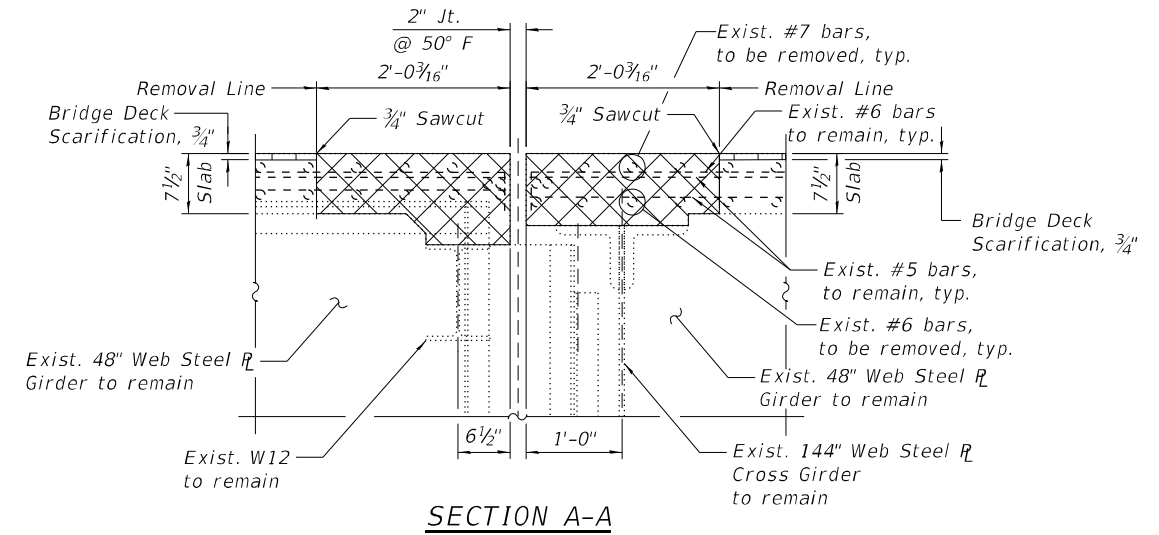
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	647
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		



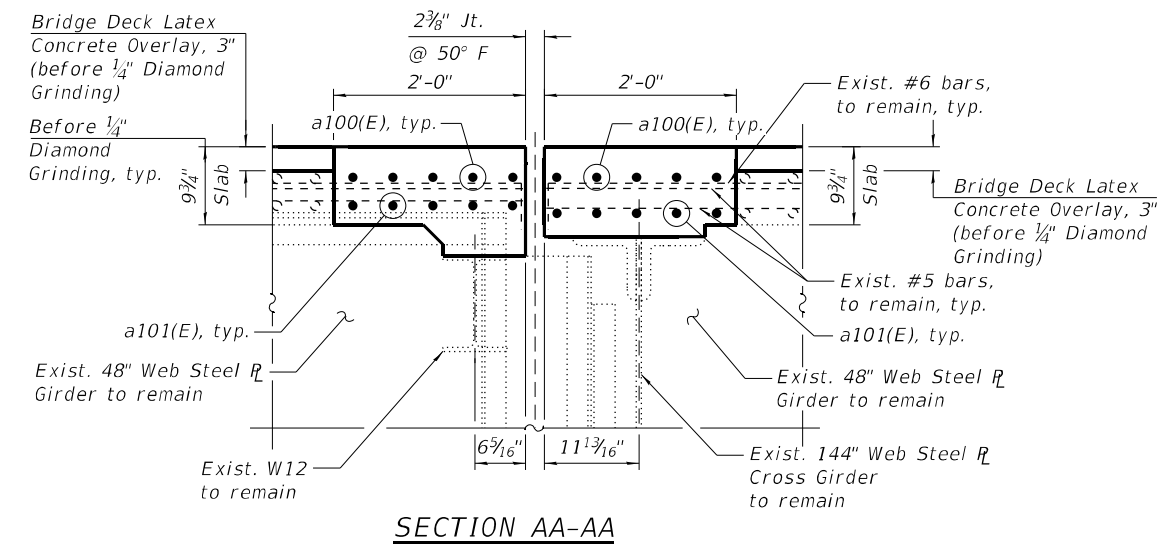
PIER 18 JOINT REMOVAL PLAN



PIER 18 JOINT RECONSTRUCTION PLAN



SECTION A-A



SECTION AA-AA

LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side

NOTE:

- For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-32.

MODEL: Default
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 9/13/2022 9:36:15 AM



USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MAI	REVISIONS -	
PLOT SCALE =	DRAWN - SK	REVISED -
PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 18 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
STRUCTURE NO. 016-0133 (REV)**

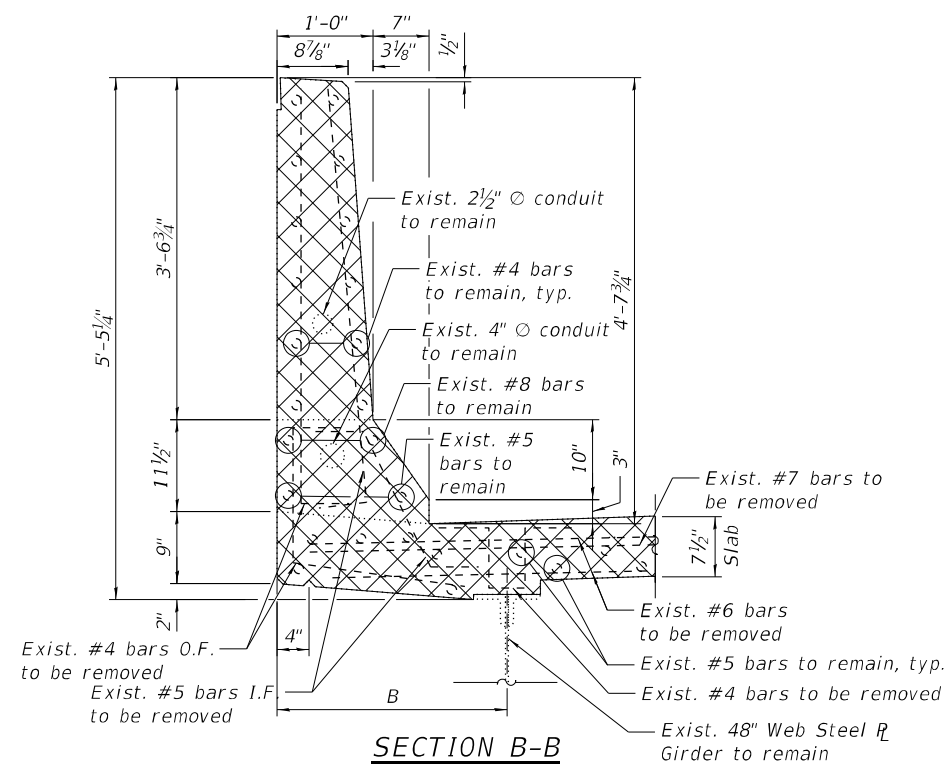
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	648
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

SHEET S08-31 OF S08-78 SHEETS

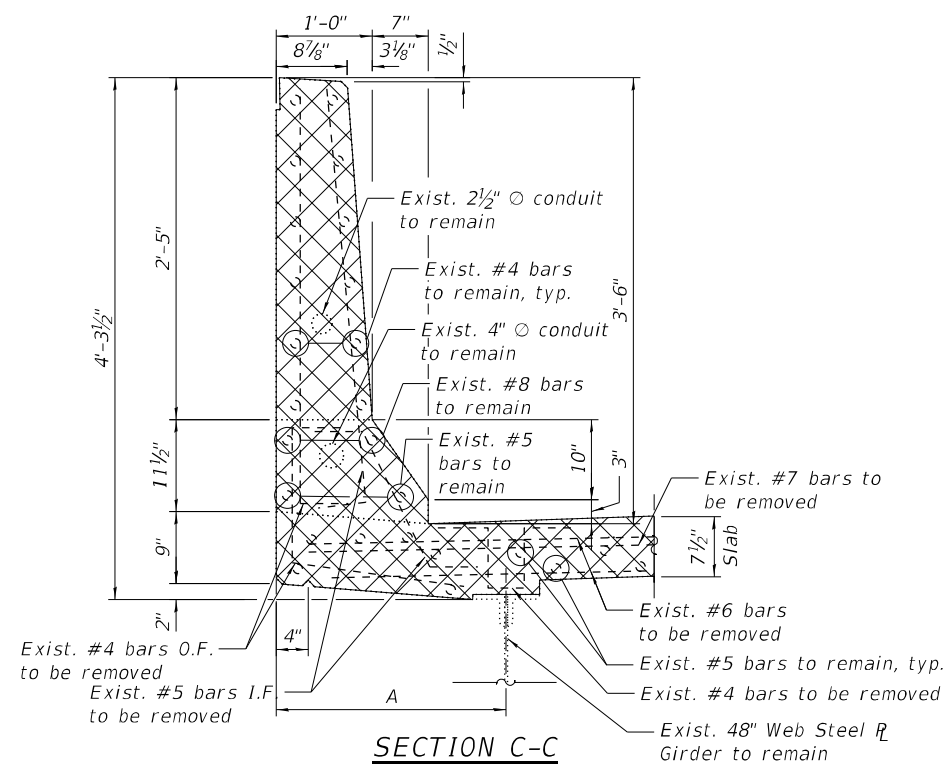
BILL OF MATERIAL

Item	No	Size	Length	Shape
a100(E)	10	#7	36'-7"	—
a101(E)	10	#6	36'-7"	—
a102(E)	12	#6	6'-6"	—
d100(E)	12	#4	3'-11"	└
d101(E)	12	#5	2'-7"	└
d102(E)	6	#4	4'-10"	└
d103(E)	6	#5	4'-10"	└
d104(E)	6	#4	3'-8"	└
d105(E)	6	#5	3'-8"	└
s100(E)	24	#5	2'-9"	└
s101(E)	12	#5	3'-5"	└
Concrete Removal		Cu Yd	5.4	
Concrete Superstructure		Cu Yd	6.4	
Protective Coat		Sq Yd	19.2	
Reinforcement Bars, Epoxy Coated		Pound	1,680	

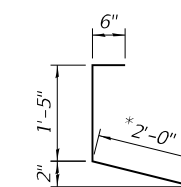
	A	B
south face	1'-2 1/4"	1'-11 1/4"
north face	1'-2 3/8"	1'-11"



SECTION B-B

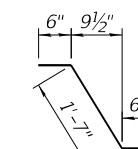


SECTION C-C

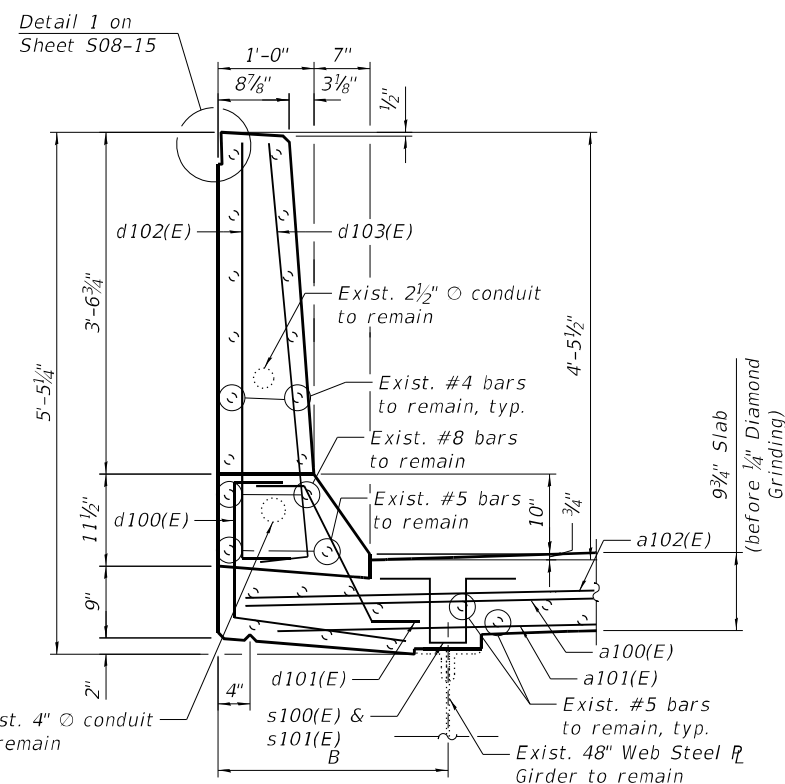


BAR d100(E)

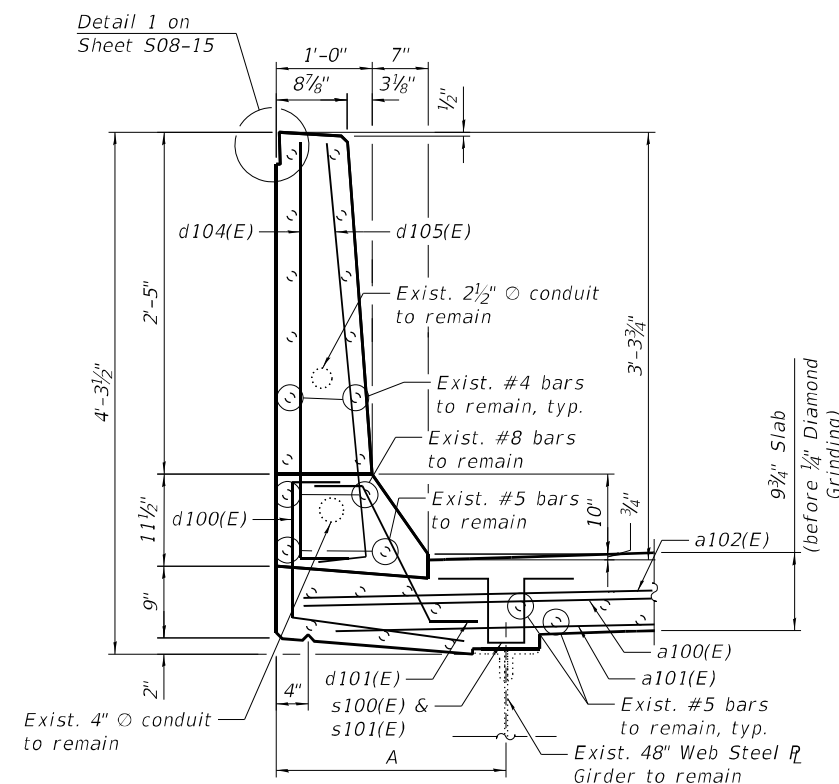
*Cut end bar in field to fit



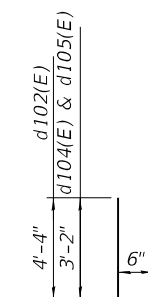
BAR d101(E)



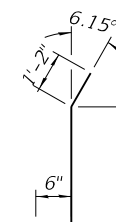
SECTION BB-BB



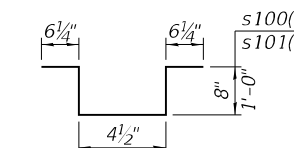
SECTION CC-CC



BARS d102(E), d104(E) & d105(E)



BAR d103(E)



BARS s100(E) & s101(E)

NOTES:

- For legend, see Sheet S08-31.
- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.

MODEL: Default
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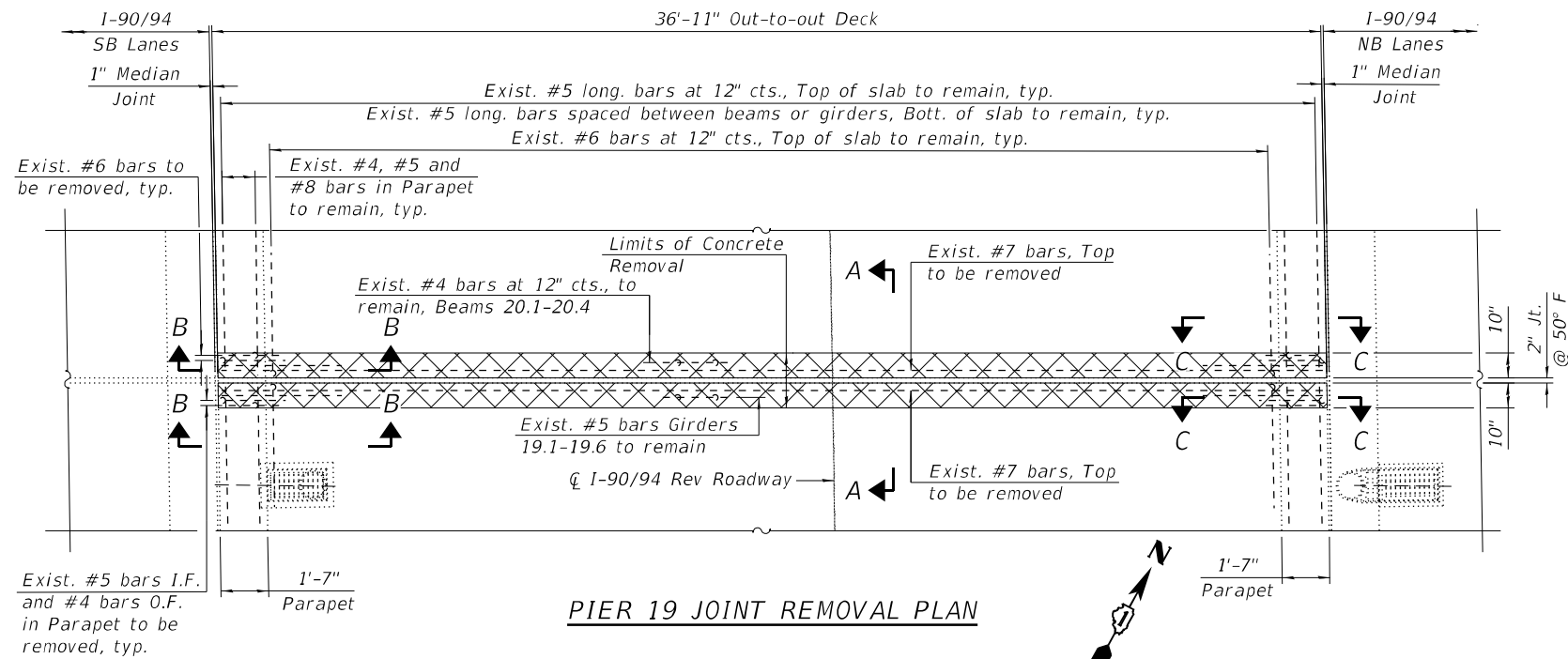
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PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - AMS	REVISED -
	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

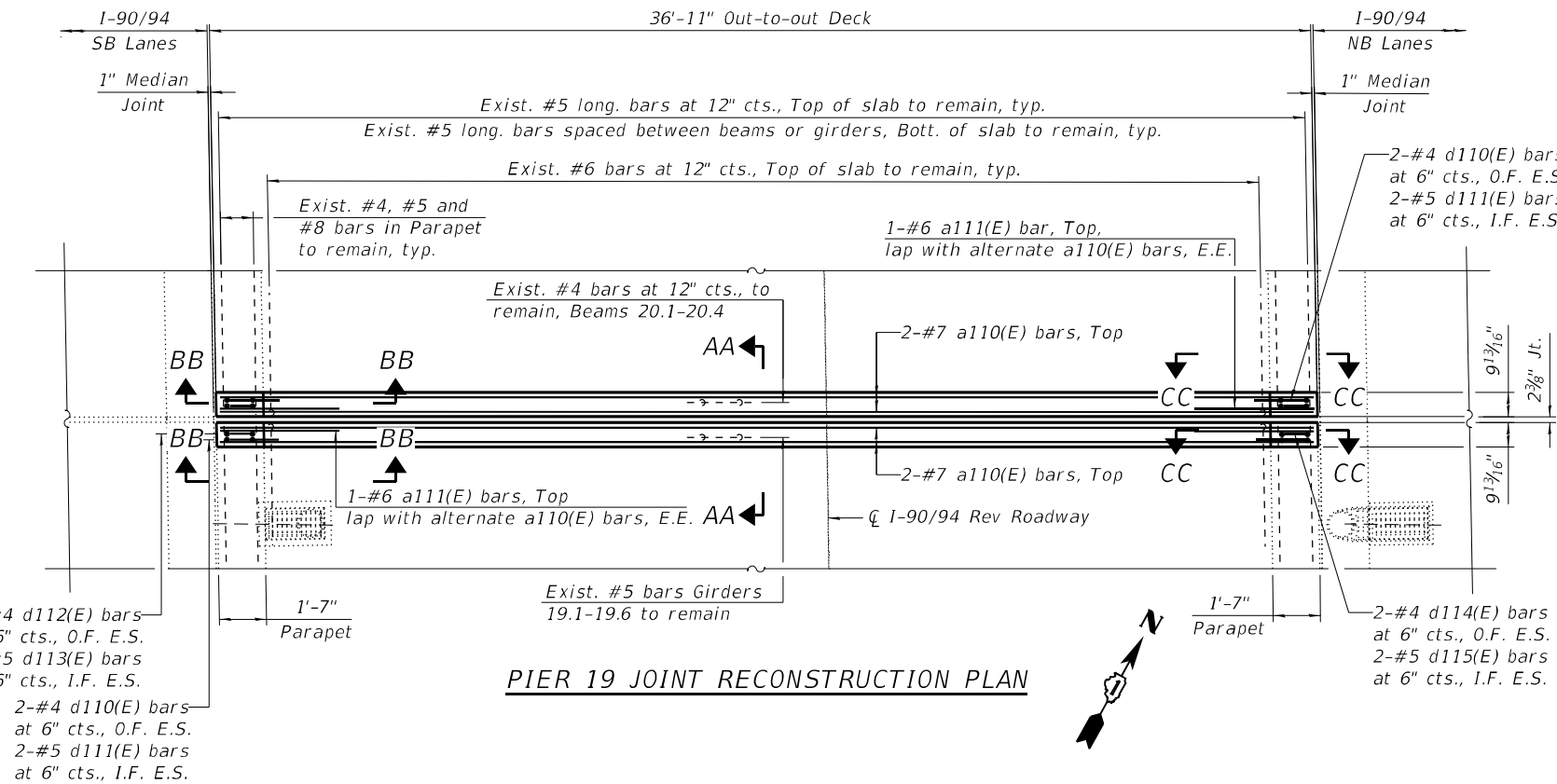
**PIER 18 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-32 OF S08-78 SHEETS

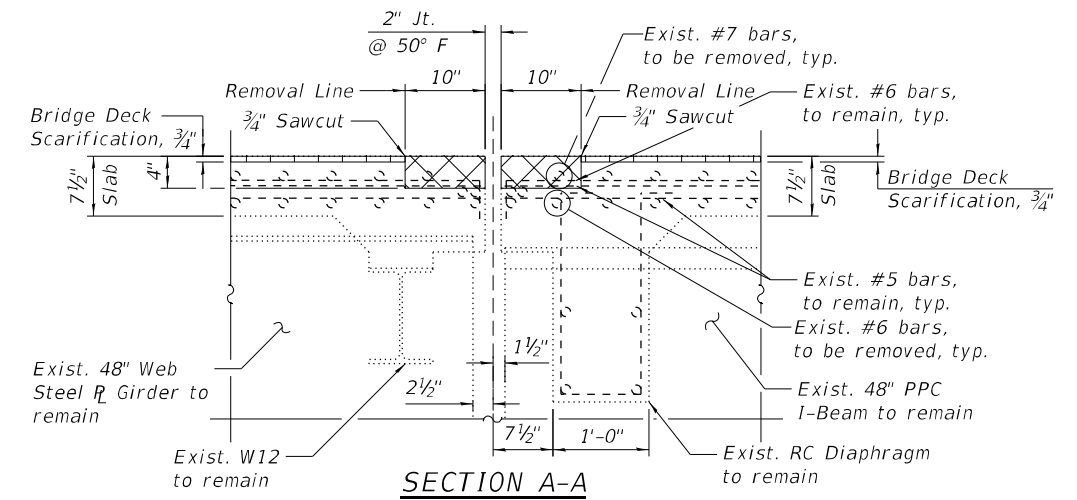
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	649
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



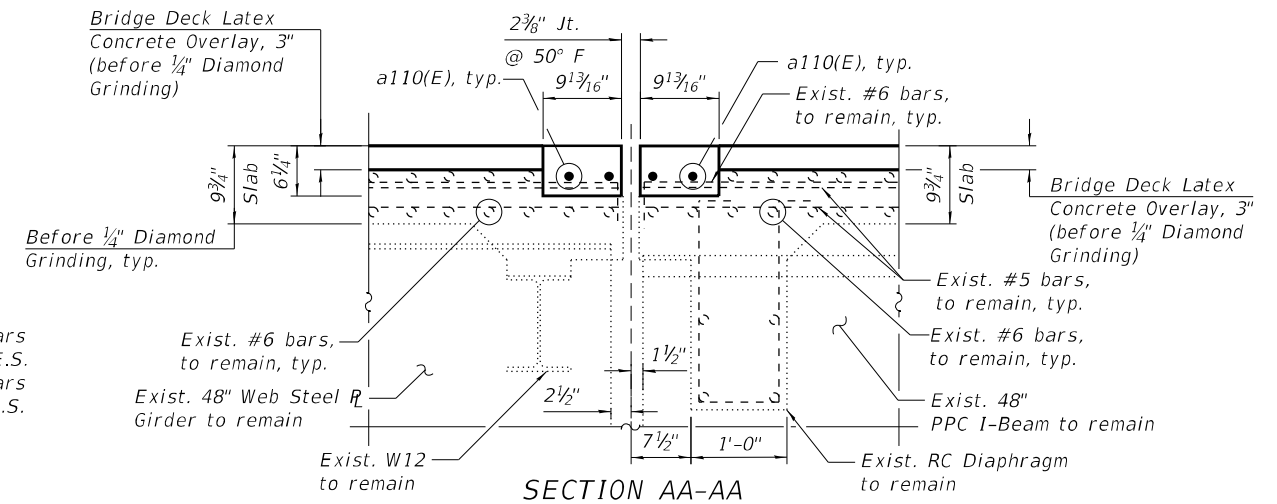
PIER 19 JOINT REMOVAL PLAN



PIER 19 JOINT RECONSTRUCTION PLAN



SECTION A-A



SECTION AA-AA

LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side

NOTE:

- For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-34.

MODEL: Default
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 9/13/2022 9:36:19 AM



USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MAI	REVISIONS -	
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PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

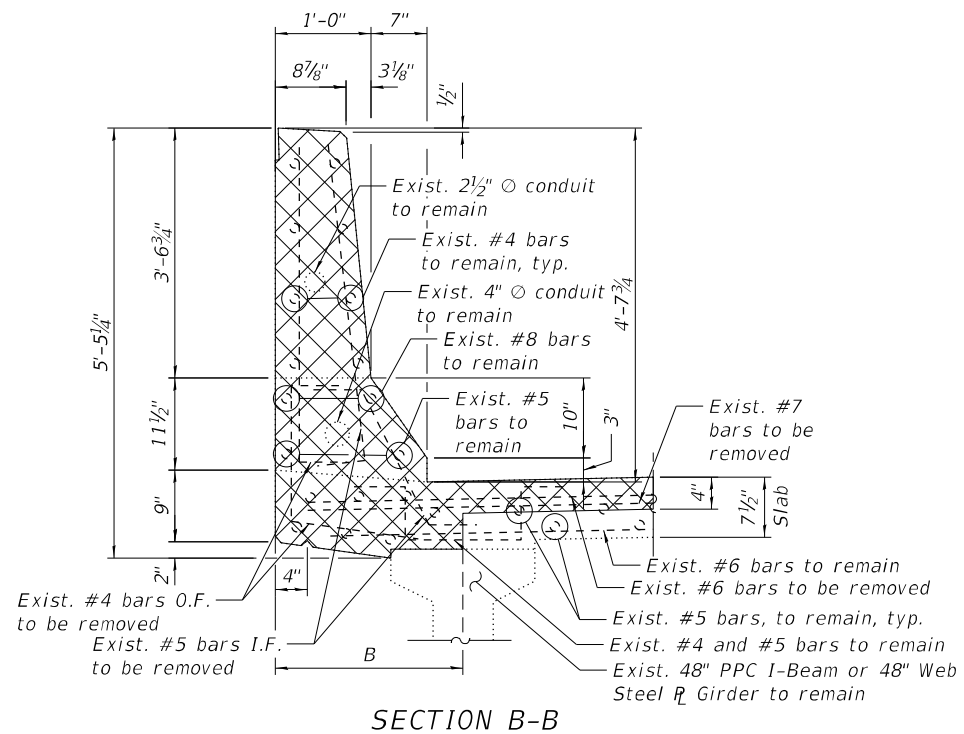
**PIER 19 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-33 OF S08-78 SHEETS

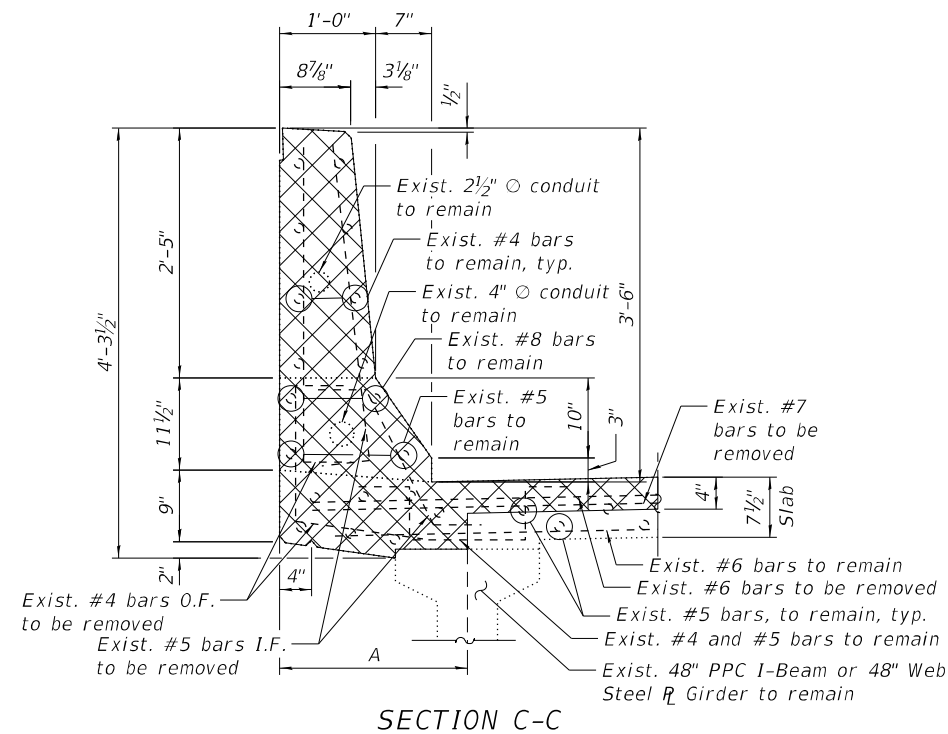
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	650
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

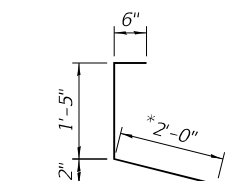
Item	No	Size	Length	Shape
a110(E)	4	#7	36'-7"	—
a111(E)	4	#6	6'-6"	—
(E)	0	#		
d110(E)	8	#4	3'-11"	⌋
d111(E)	8	#5	2'-7"	⌋
d112(E)	4	#4	4'-10"	⌋
d113(E)	4	#5	4'-10"	⌋
d114(E)	4	#4	3'-8"	⌋
d115(E)	4	#5	3'-8"	⌋
(E)	0	#		
(E)	0	#		
(E)	0	#		
Concrete Removal		Cu Yd	2	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	19.2	
Reinforcement Bars, Epoxy Coated		Pound	440	



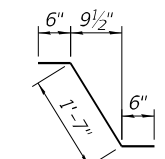
SECTION B-B



SECTION C-C



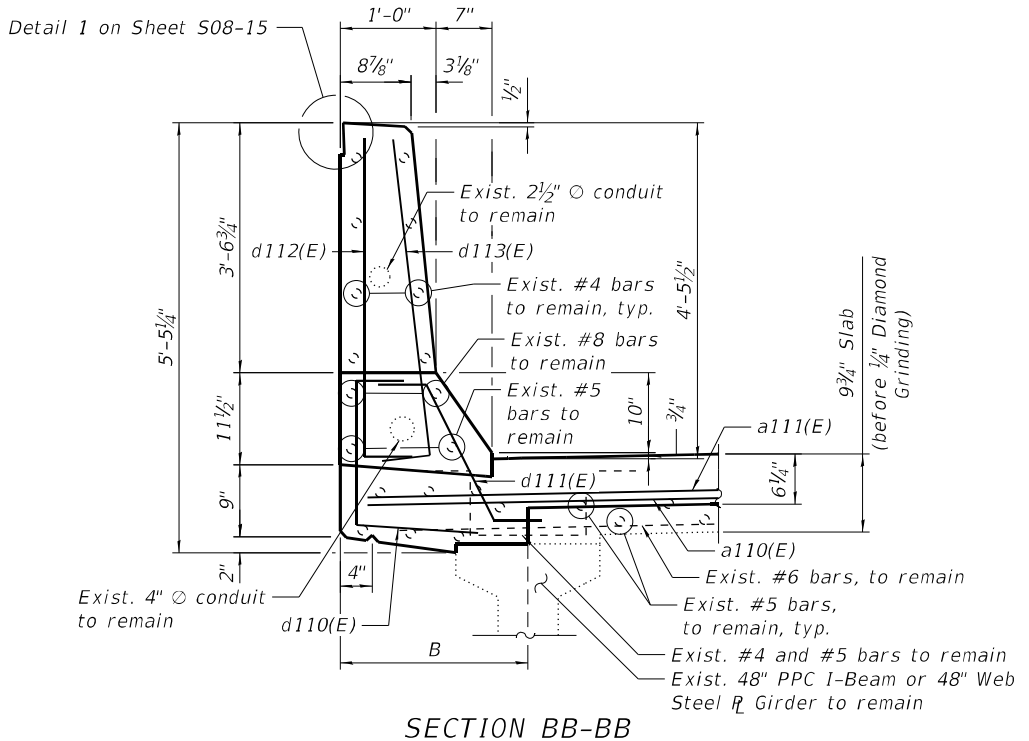
BAR d110(E)



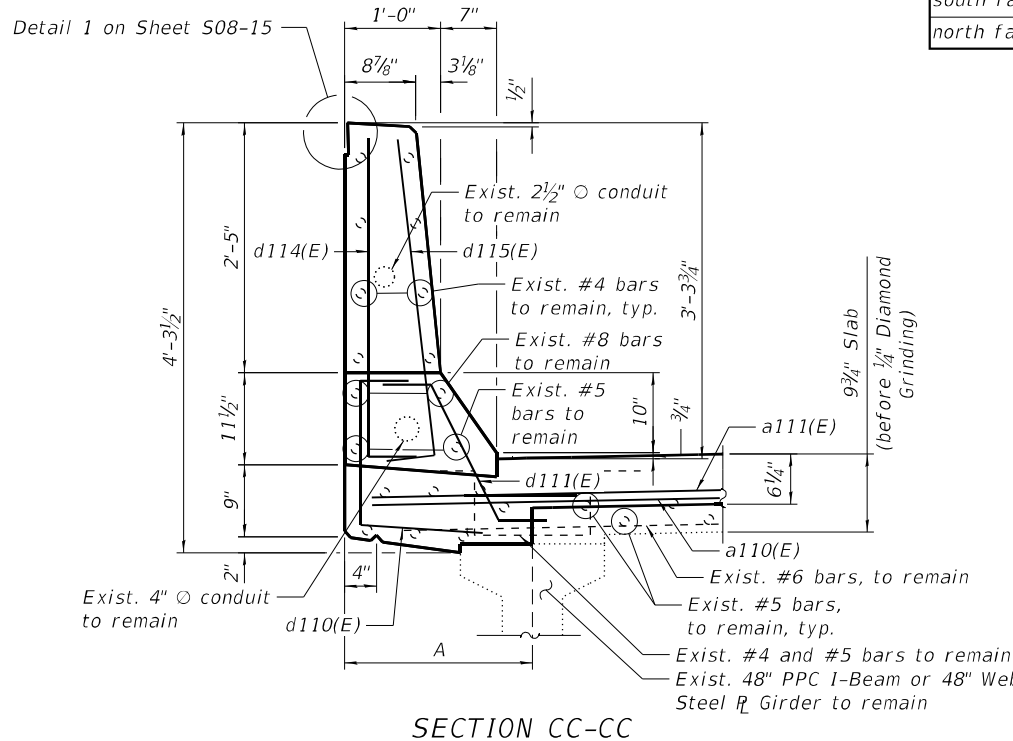
BAR d111(E)

*Cut end bar in field to fit

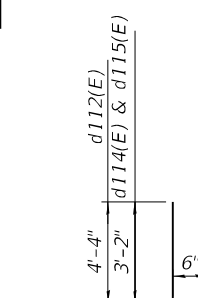
	A	B
south face	8 7/8"	1'-11 3/4"
north face	2'-1 7/8"	2'-7 1/4"



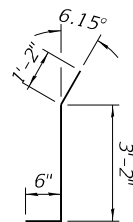
SECTION BB-BB



SECTION CC-CC



BARS d112(E), d114(E) & d115(E)



BAR d113(E)

NOTES:

1. For legend, see Sheet S08-33.
2. For preformed joint strip seal details, see Sheet S08-45.
3. Removal and disposal of the existing expansion joints is included with Concrete Removal.

MODEL: Default
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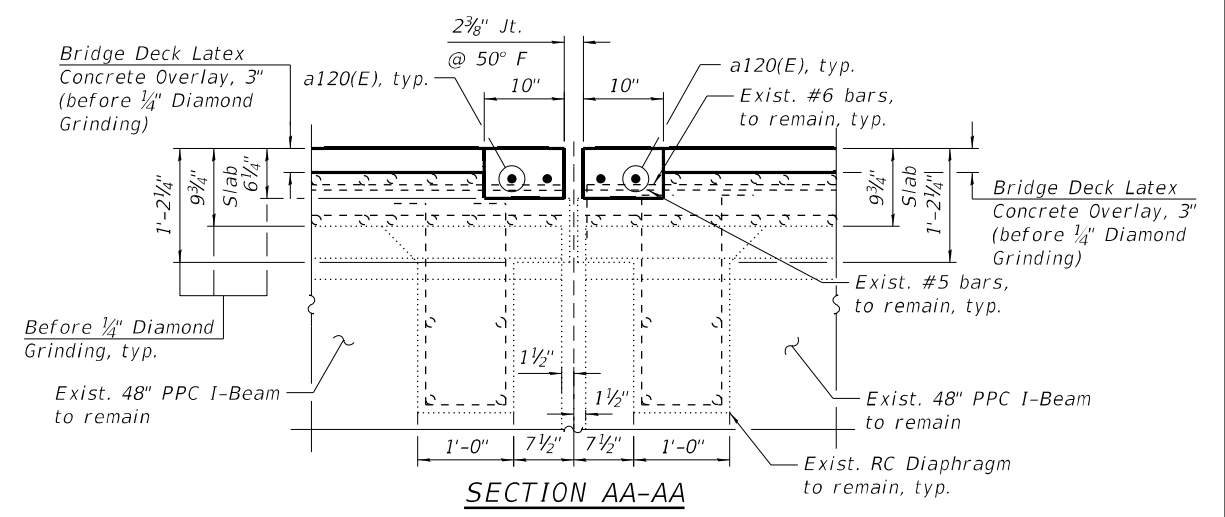
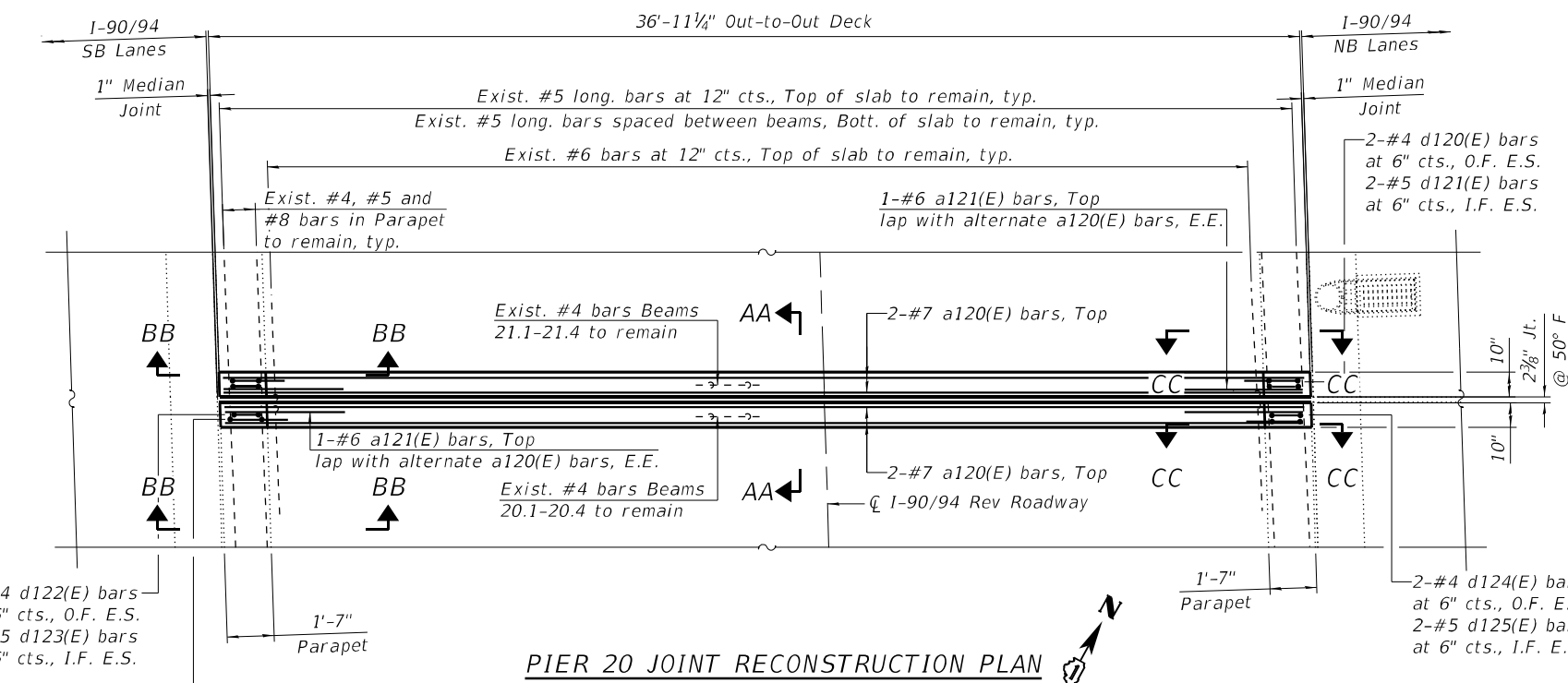
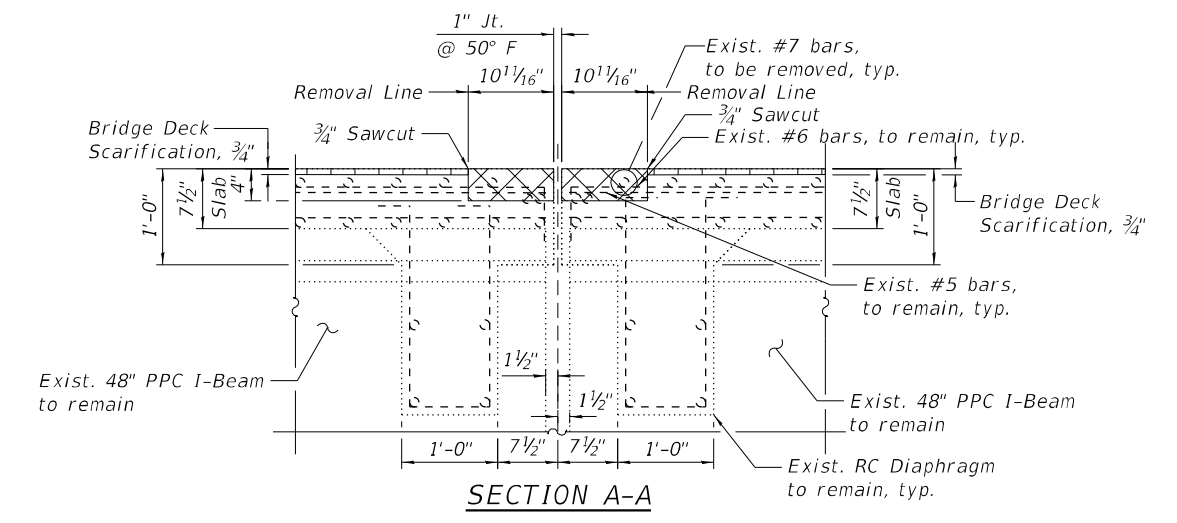
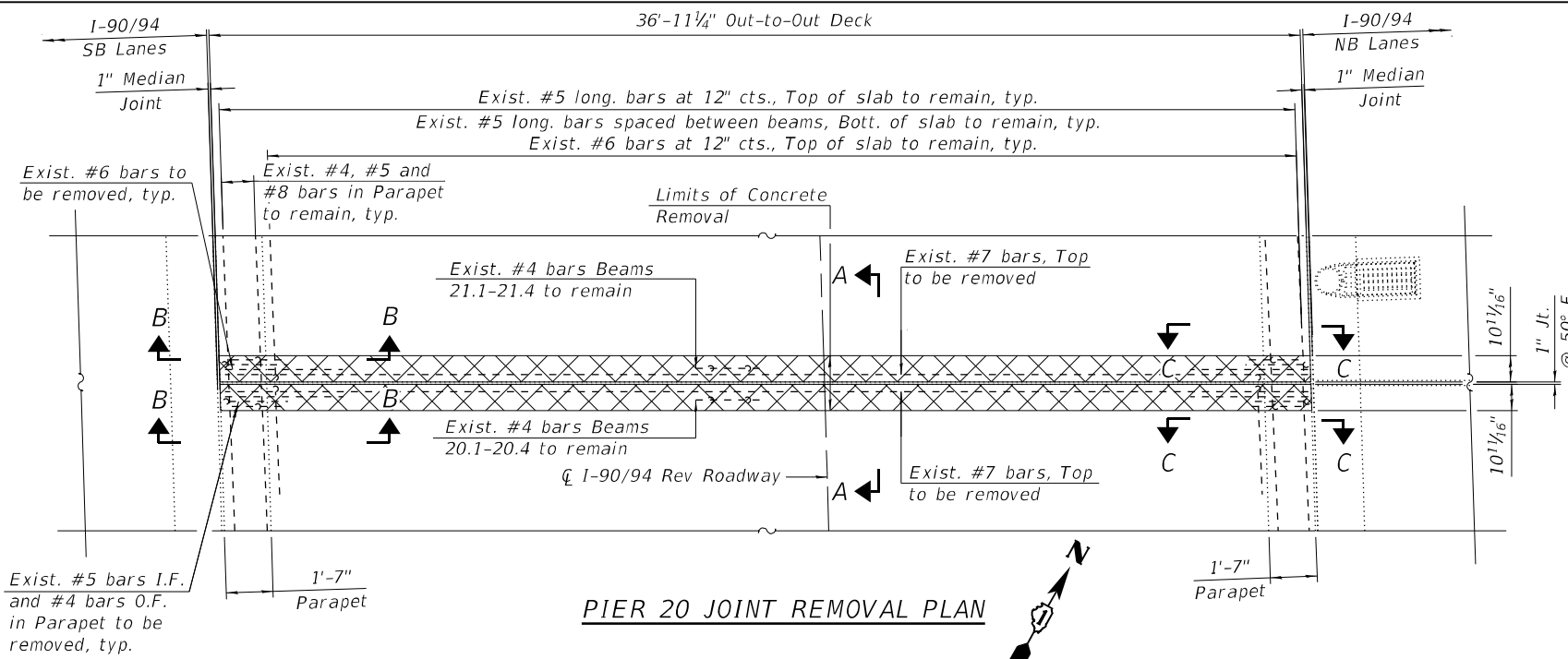
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CHECKED - MAI	REVISED -	
PLOT SCALE =	DRAWN - AMS	REVISED -
PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 19 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	651
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

SHEET S08-34 OF S08-78 SHEETS



LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side

NOTE:
 1. For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-36.

MODEL: Default
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USER NAME =	DESIGNED - JMI	REVISED -
PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - JMI	REVISED -
	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

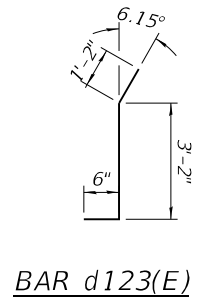
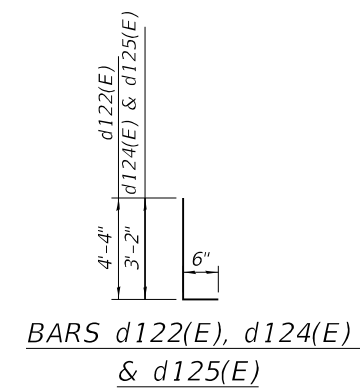
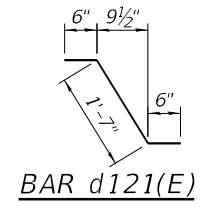
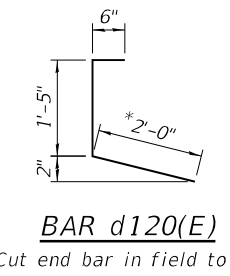
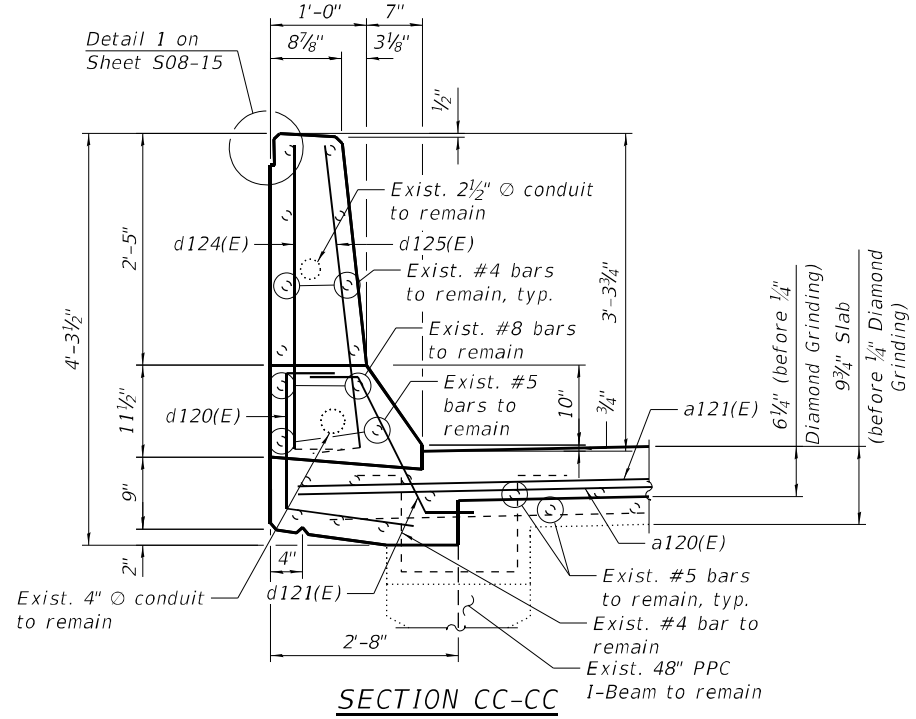
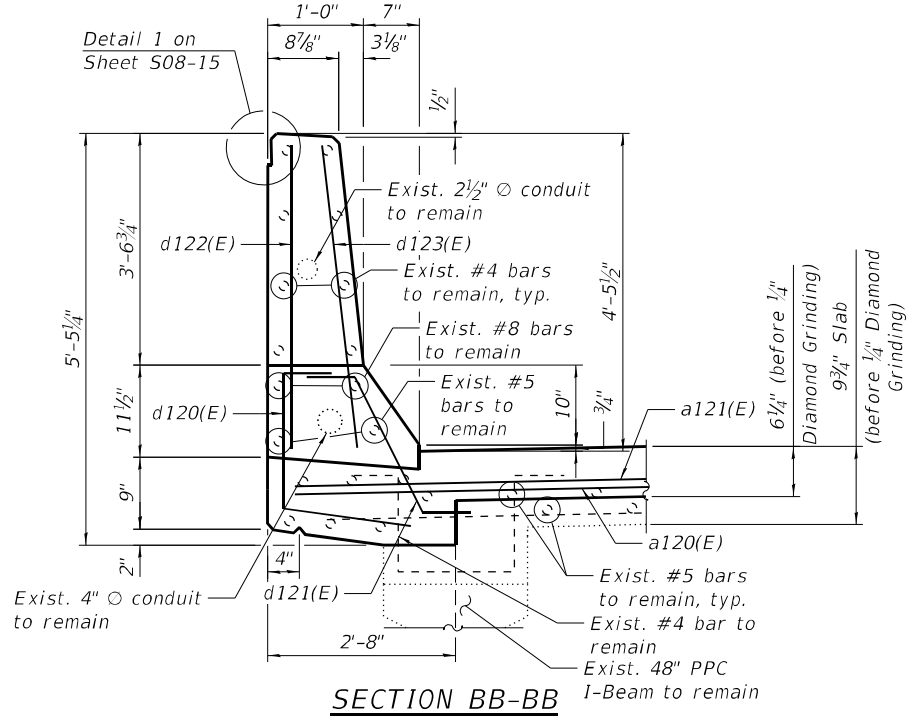
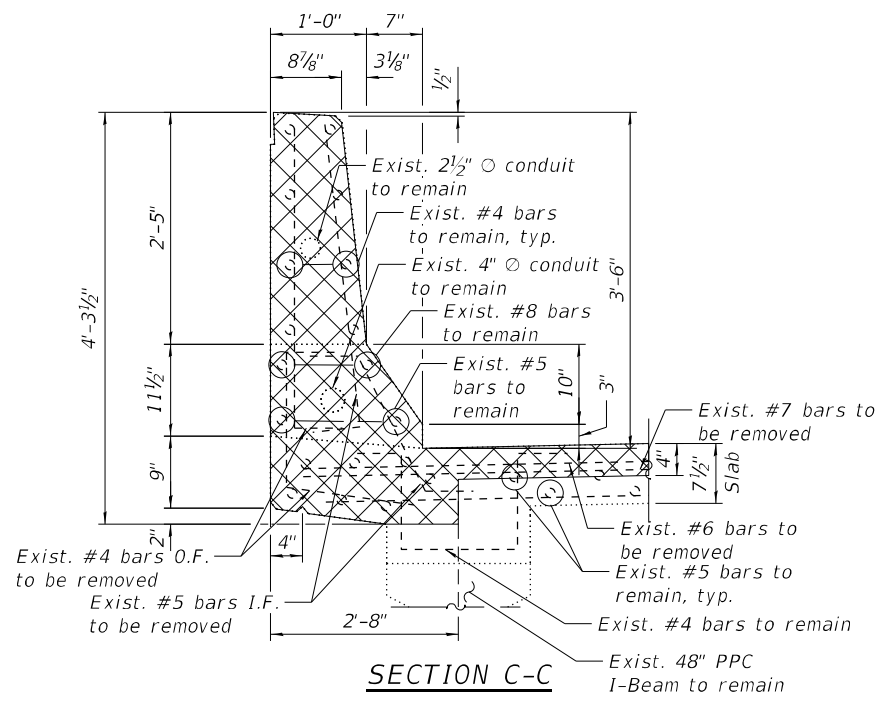
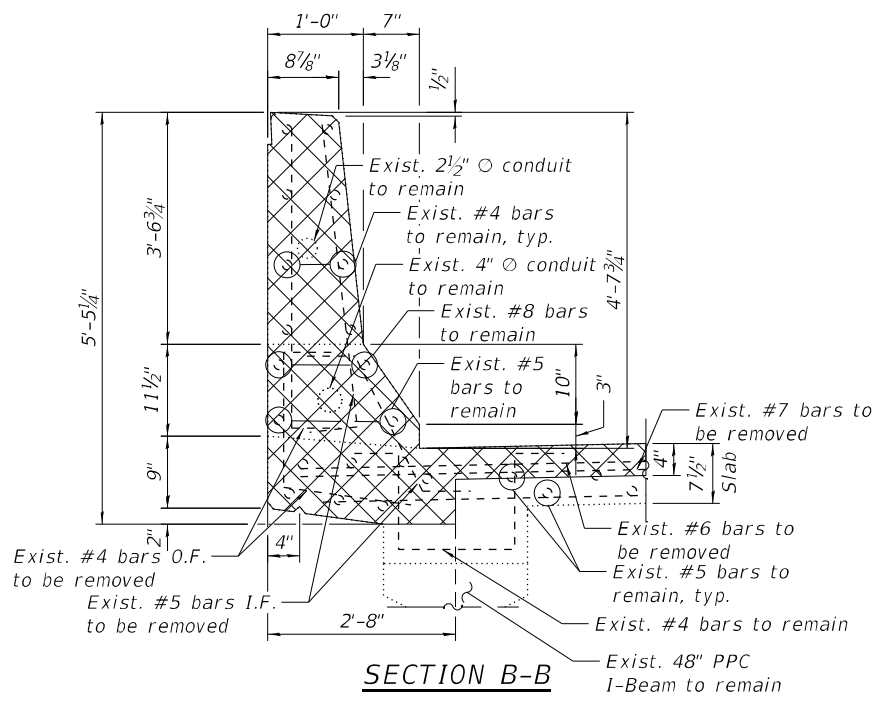
**PIER 20 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
 STRUCTURE NO. 016-0133 (REV)**

SHEET S08-35 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	652
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

Item	No	Size	Length	Shape
a120(E)	4	#7	36'-7"	—
a121(E)	4	#6	6'-6"	—
d120(E)	8	#4	3'-11"	L
d121(E)	8	#5	2'-7"	L
d122(E)	4	#4	4'-10"	L
d123(E)	4	#5	4'-10"	L
d124(E)	4	#4	3'-8"	L
d125(E)	4	#5	3'-8"	L
Concrete Removal		Cu Yd	1.5	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	8	
Reinforcement Bars, Epoxy Coated		Pound	440	



NOTES:

- For legend, see Sheet S08-35.
- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.

MODEL: Default
FILE NAME: P:\2004-824-PTB\195-010-GRAEF\WO#4 I-90_SB & Rev. Var. Overlays - Ashland Rev\Sheet_Files\0160133-62K74-530-Pier_20A_IJ_Removal&Constr.dgn
9/13/2022 9:36:25 AM



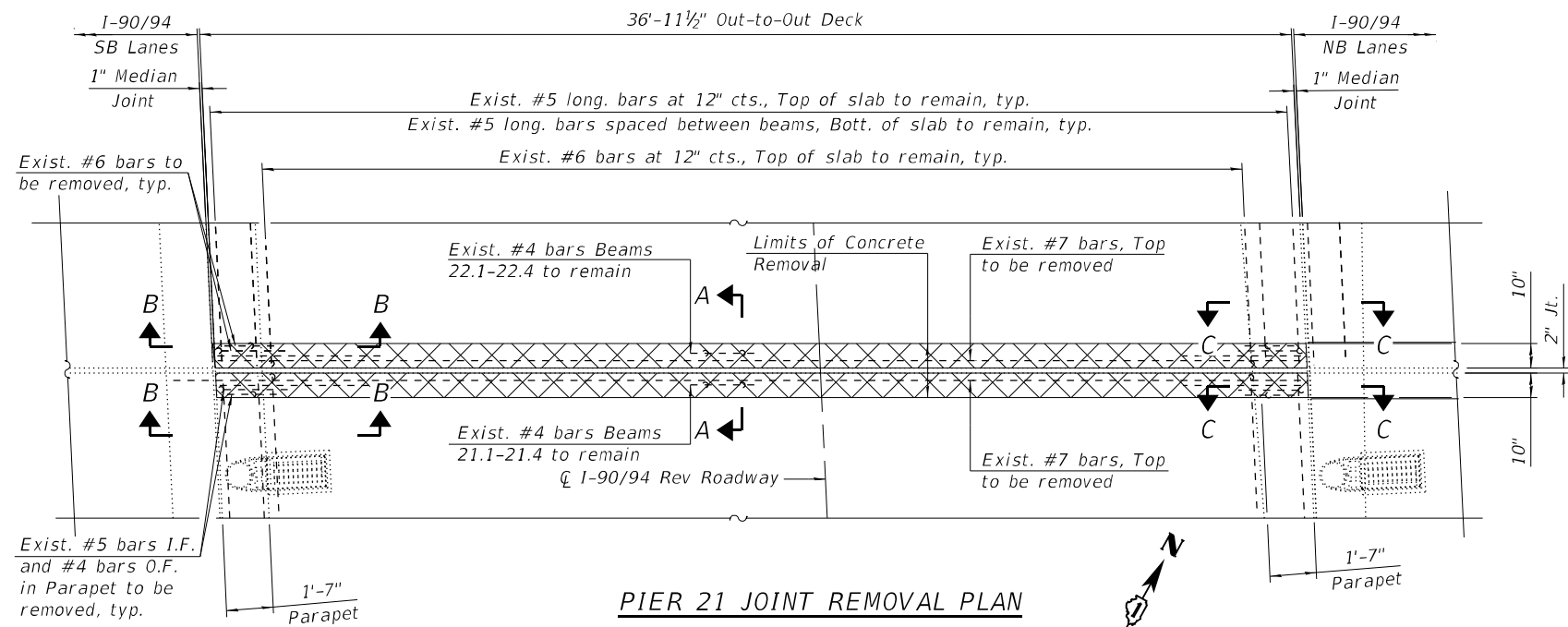
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PLOT SCALE =	CHECKED - MAI	REVISED -
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	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

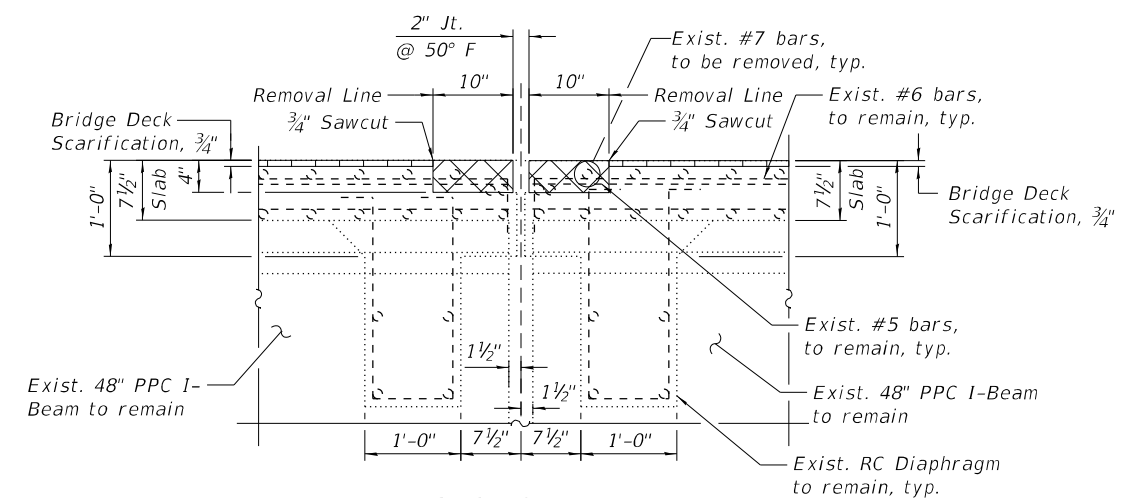
**PIER 20 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-36 OF S08-78 SHEETS

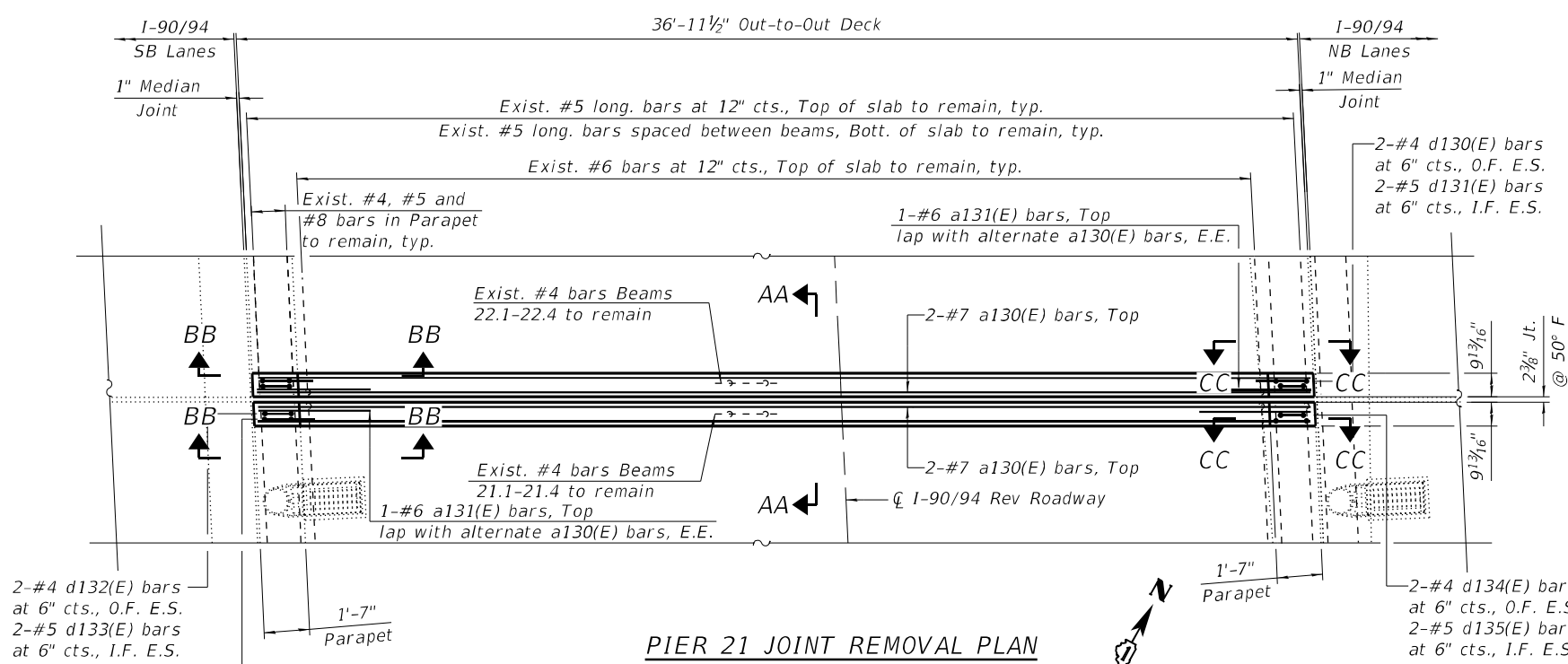
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	653
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



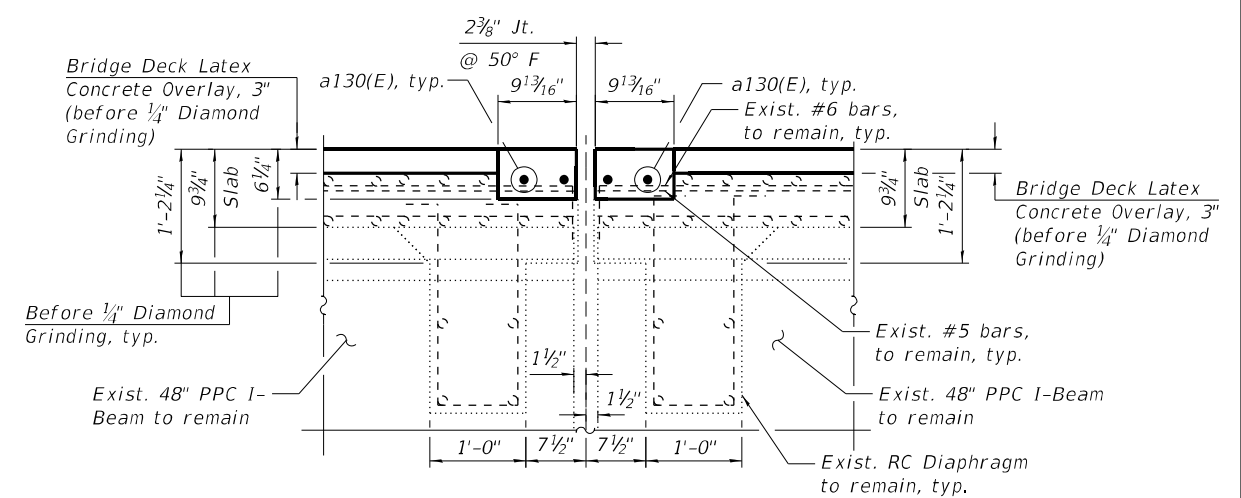
PIER 21 JOINT REMOVAL PLAN



SECTION A-A



PIER 21 JOINT REMOVAL PLAN



SECTION AA-AA

LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side

NOTE:

1. For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-38.

MODEL: Default
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9/13/2022 9:36:27 AM



USER NAME =	DESIGNED - JMI	REVISED -
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PLOT DATE =	DATE - 9/13/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

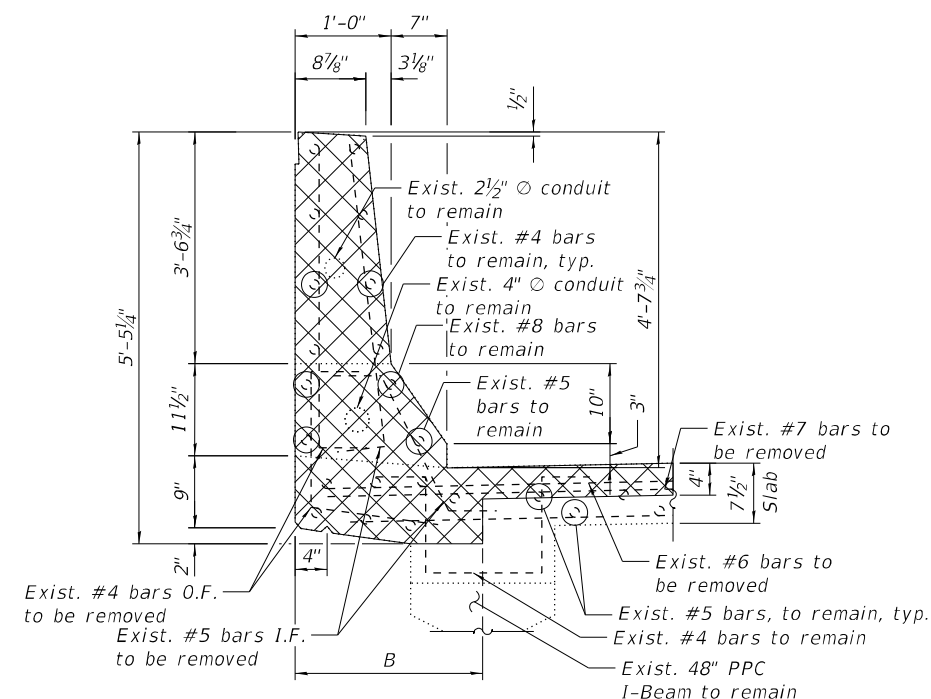
PIER 21 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
STRUCTURE NO. 016-0133 (REV)

SHEET S08-37 OF S08-78 SHEETS

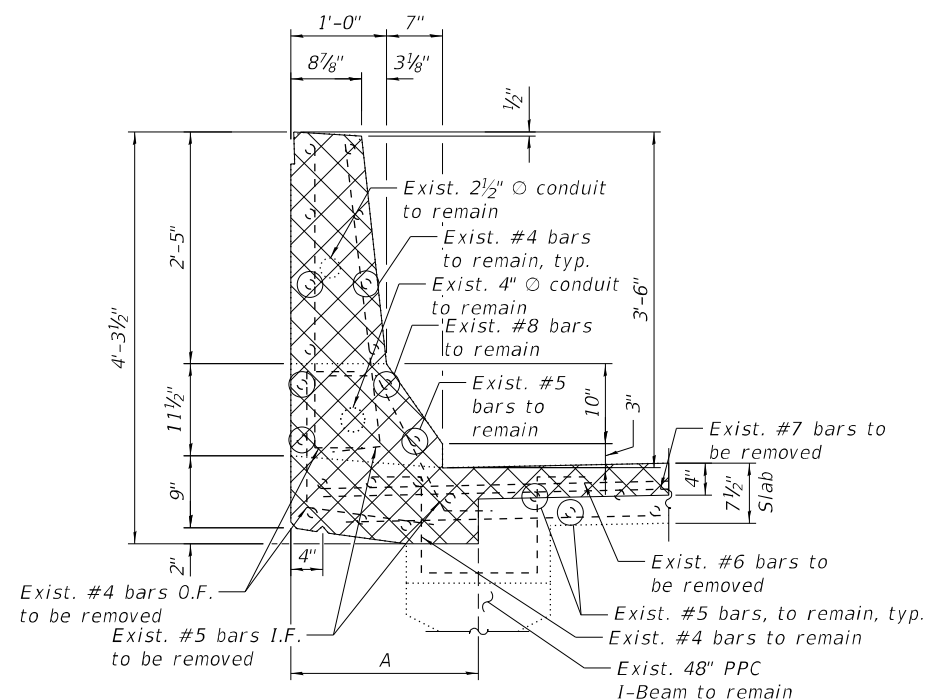
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	654
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

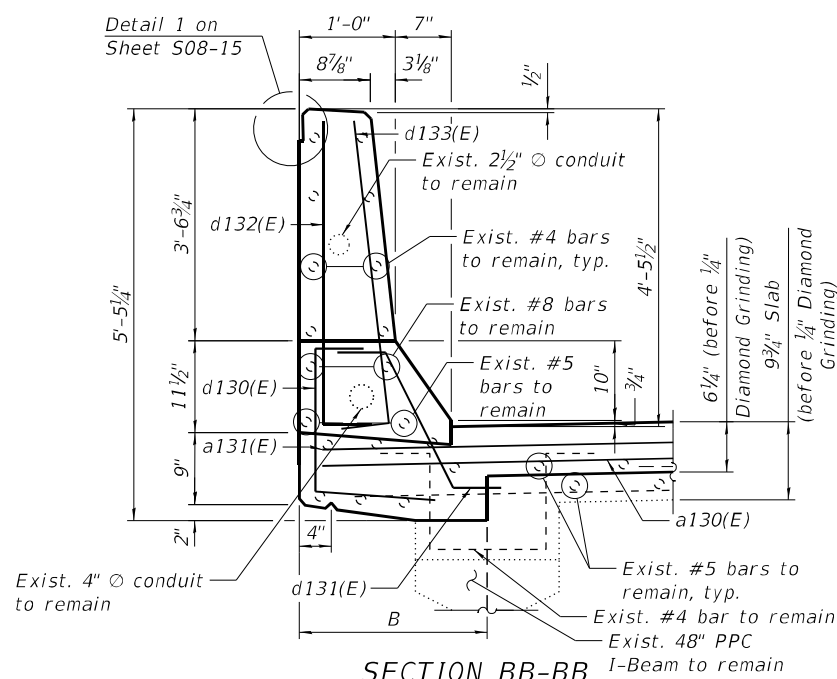
Item	No	Size	Length	Shape
a130(E)	4	#7	36'-8"	—
a131(E)	4	#6	6'-6"	—
d130(E)	8	#4	3'-11"	⌋
d131(E)	8	#5	2'-7"	⌋
d132(E)	4	#4	4'-10"	⌋
d133(E)	4	#5	4'-10"	⌋
d134(E)	4	#4	3'-8"	⌋
d135(E)	4	#5	3'-8"	⌋
Concrete Removal		Cu Yd	1.4	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	7.9	
Reinforcement Bars, Epoxy Coated		Pound	440	



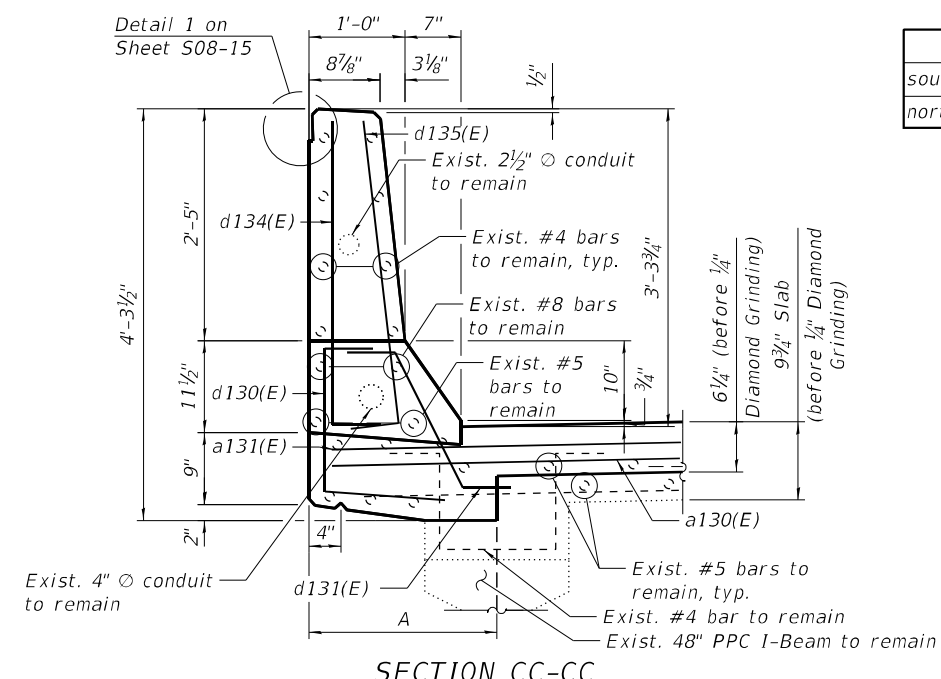
SECTION B-B



SECTION C-C

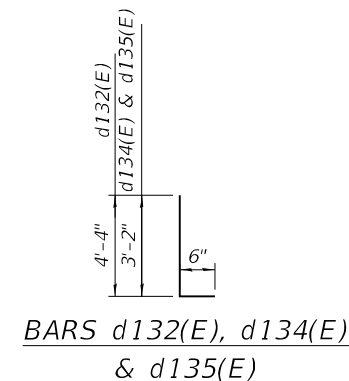


SECTION BB-BB

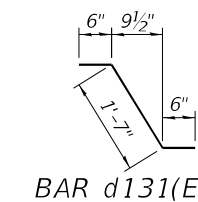


SECTION CC-CC

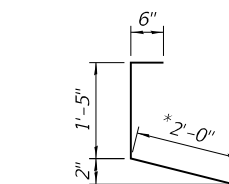
	A	B
south face	2'-0 ¹ / ₈ "	2'-8 ⁷ / ₈ "
north face	2'-0 ⁵ / ₈ "	2'-6 ⁵ / ₈ "



BARS d132(E), d134(E) & d135(E)

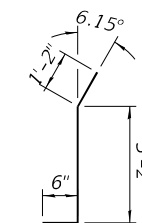


BAR d131(E)



BAR d130(E)

*Cut end bar in field to fit



BAR d133(E)

NOTES:

- For legend, see Sheet S08-37.
- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.

MODEL: Default
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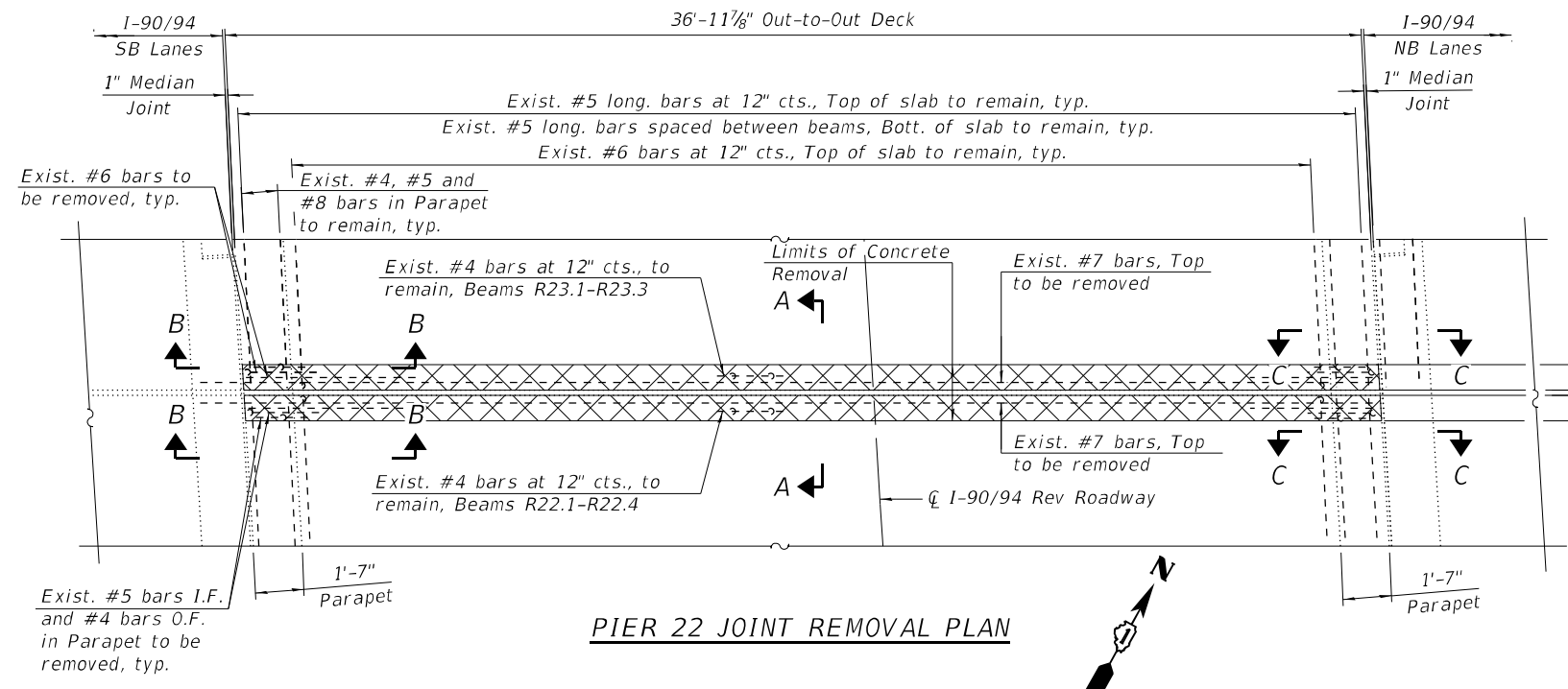
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	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

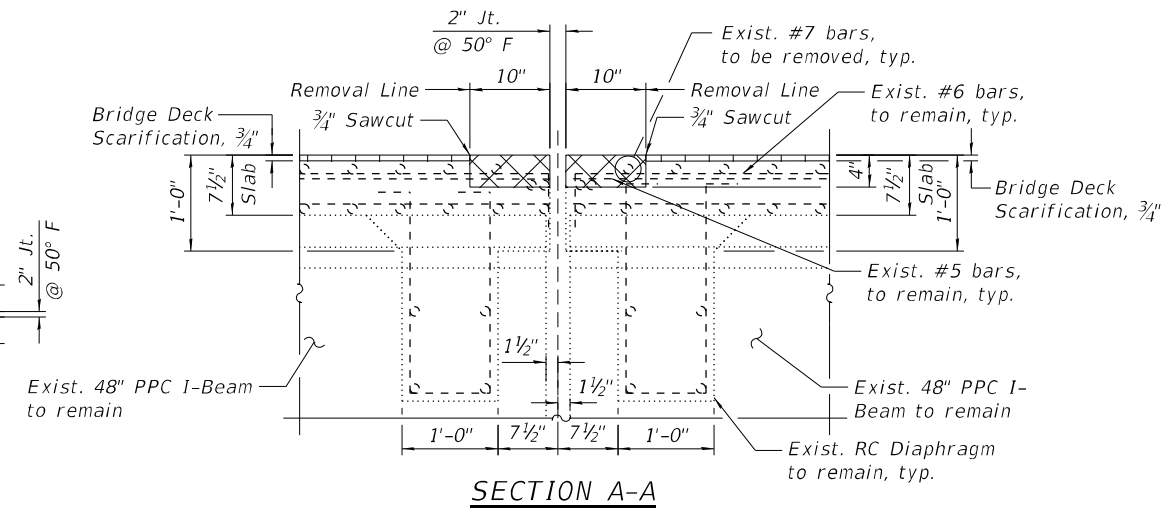
**PIER 21 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-38 OF S08-78 SHEETS

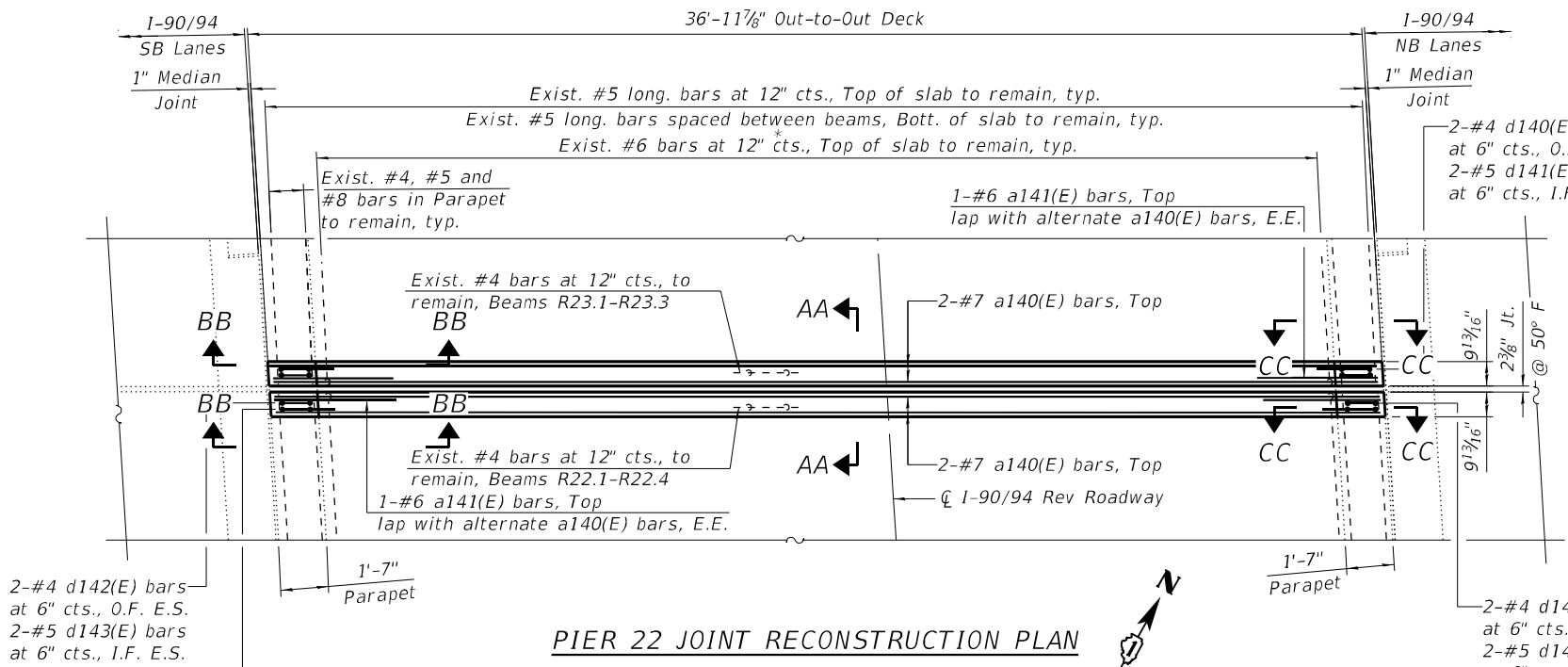
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	655
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



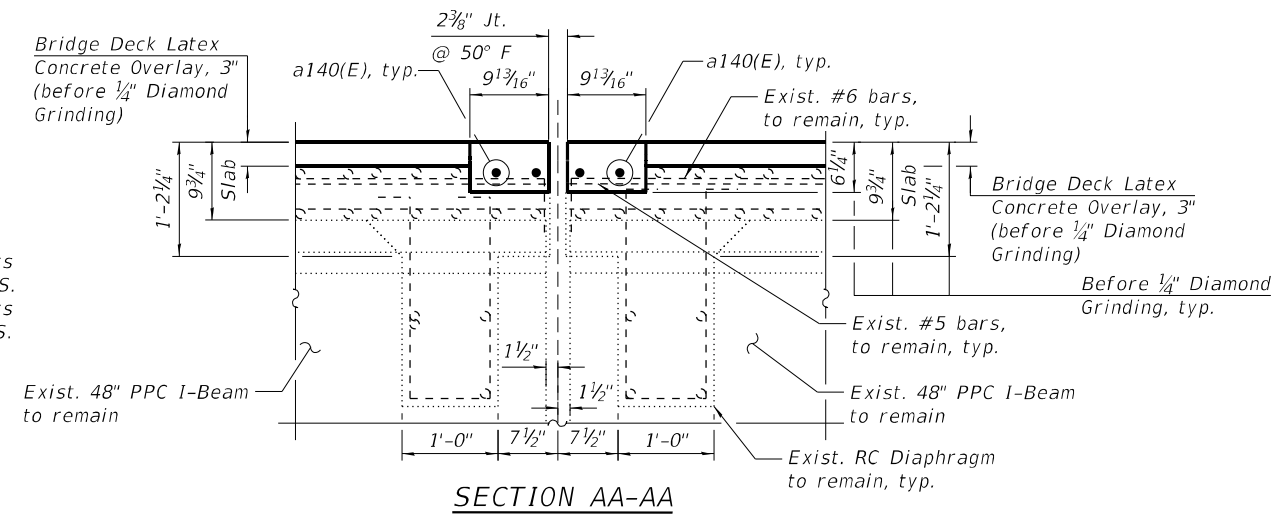
PIER 22 JOINT REMOVAL PLAN



SECTION A-A



PIER 22 JOINT RECONSTRUCTION PLAN



SECTION AA-AA

LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side

NOTE:
 1. For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-40.

MODEL: Default
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USER NAME =	DESIGNED - JMI	REVISED -
CHECKED - MAI	REVISED -	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

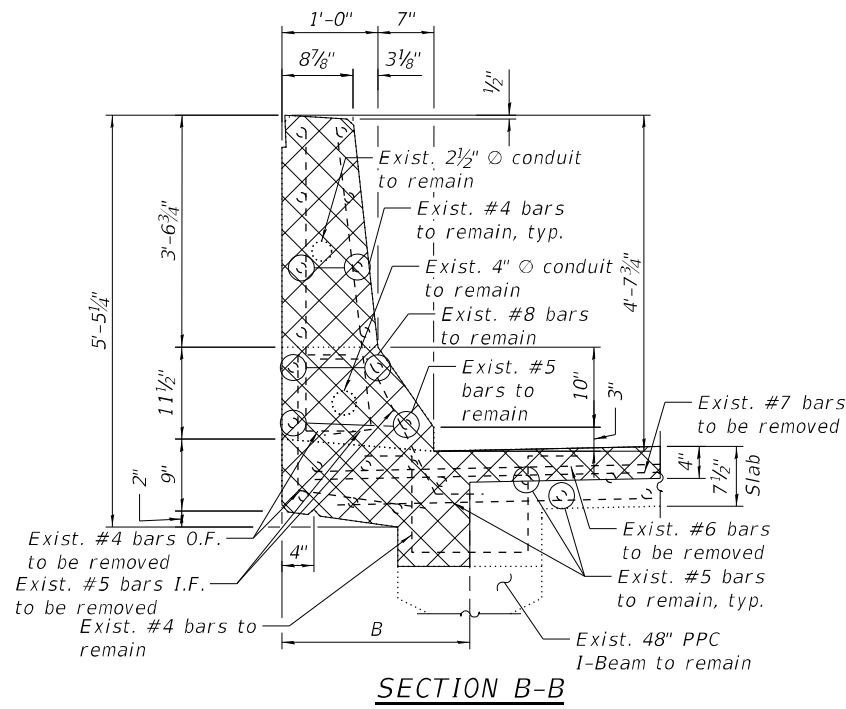
**PIER 22 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
 STRUCTURE NO. 016-0133 (REV)**

SHEET S08-39 OF S08-78 SHEETS

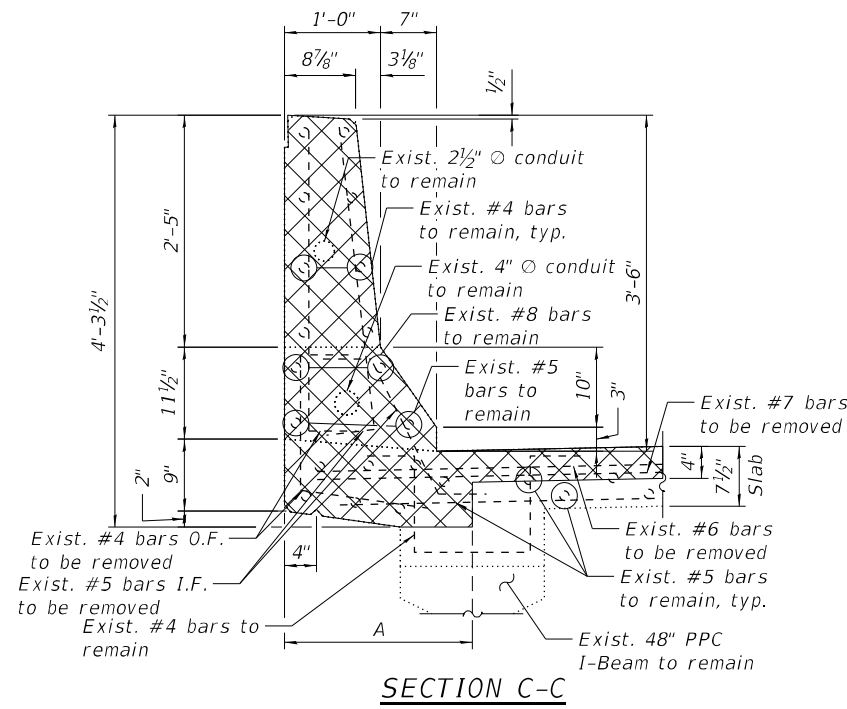
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90/94	2020-004-BR	COOK	1492	656
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

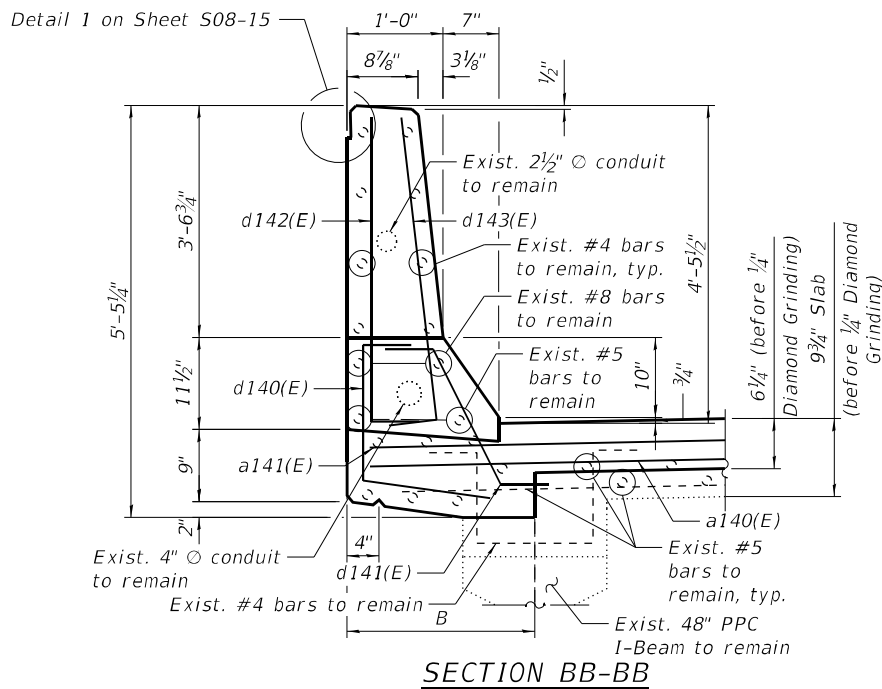
Item	No	Size	Length	Shape
a140(E)	4	#7	36'-8"	—
a141(E)	4	#6	6'-6"	—
d140(E)	8	#4	3'-11"	┌
d141(E)	8	#5	2'-7"	┌
d142(E)	4	#4	4'-10"	┌
d143(E)	4	#5	4'-10"	┌
d144(E)	4	#4	3'-8"	┌
d145(E)	4	#5	3'-8"	┌
Concrete Removal		Cu Yd	1.4	
Concrete Superstructure		Cu Yd	1.8	
Protective Coat		Sq Yd	7.9	
Reinforcement Bars, Epoxy Coated		Pound	440	



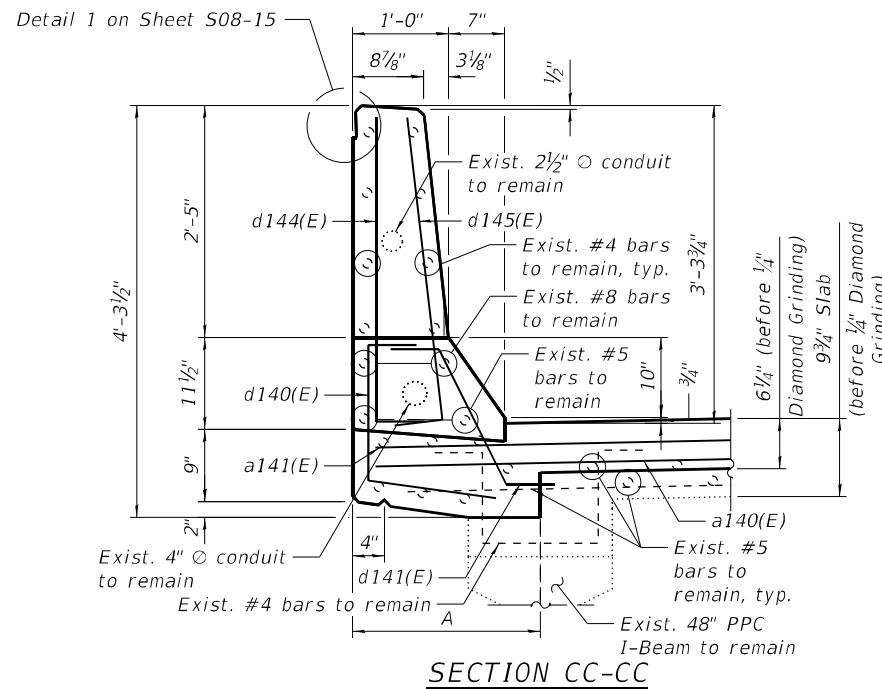
SECTION B-B



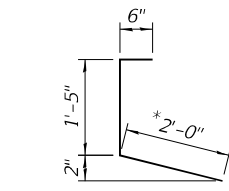
SECTION C-C



SECTION BB-BB

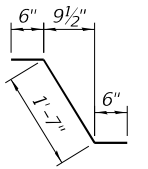


SECTION CC-CC



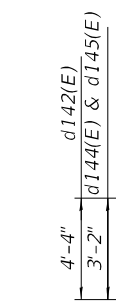
BAR d140(E)

*Cut end bar in field to fit

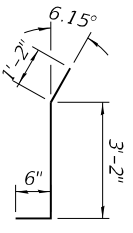


BAR d141(E)

	A	B
south face	2'-1 1/8"	2'-5 5/8"
north face	2'-0 3/4"	2'-5 7/8"



BARS d142(E), d144(E) & d145(E)



BAR d143(E)

NOTES:

- For legend, see Sheet S08-39.
- For preformed joint strip seal details, see Sheet S08-45.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.

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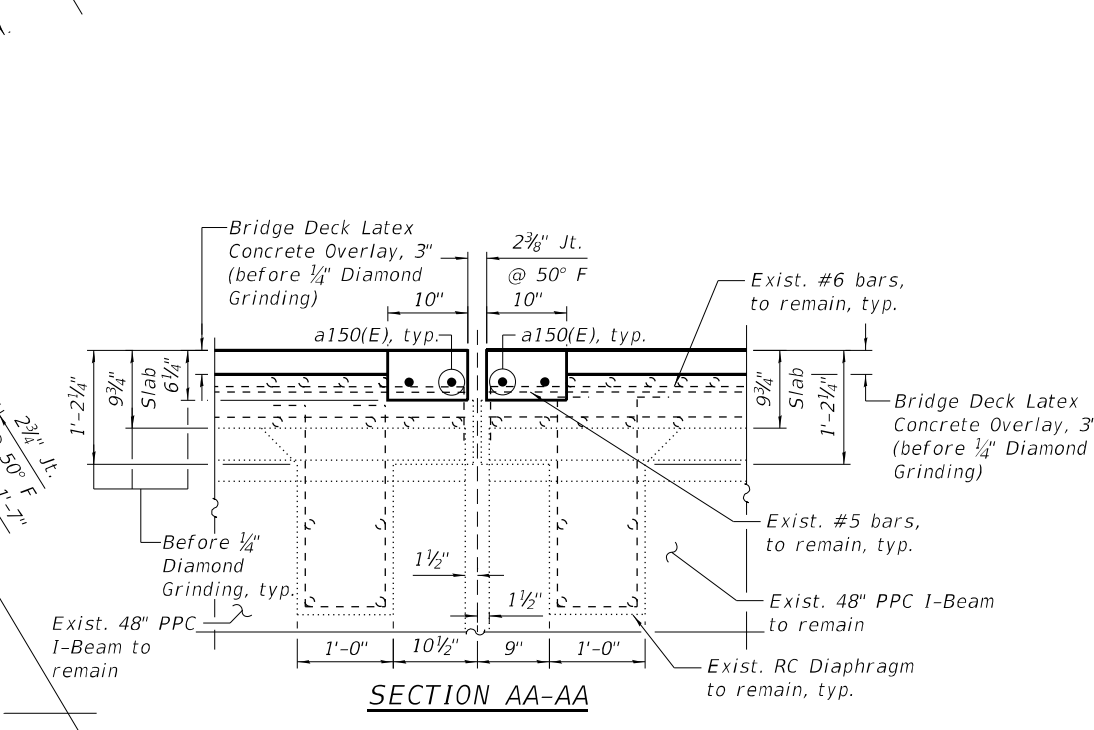
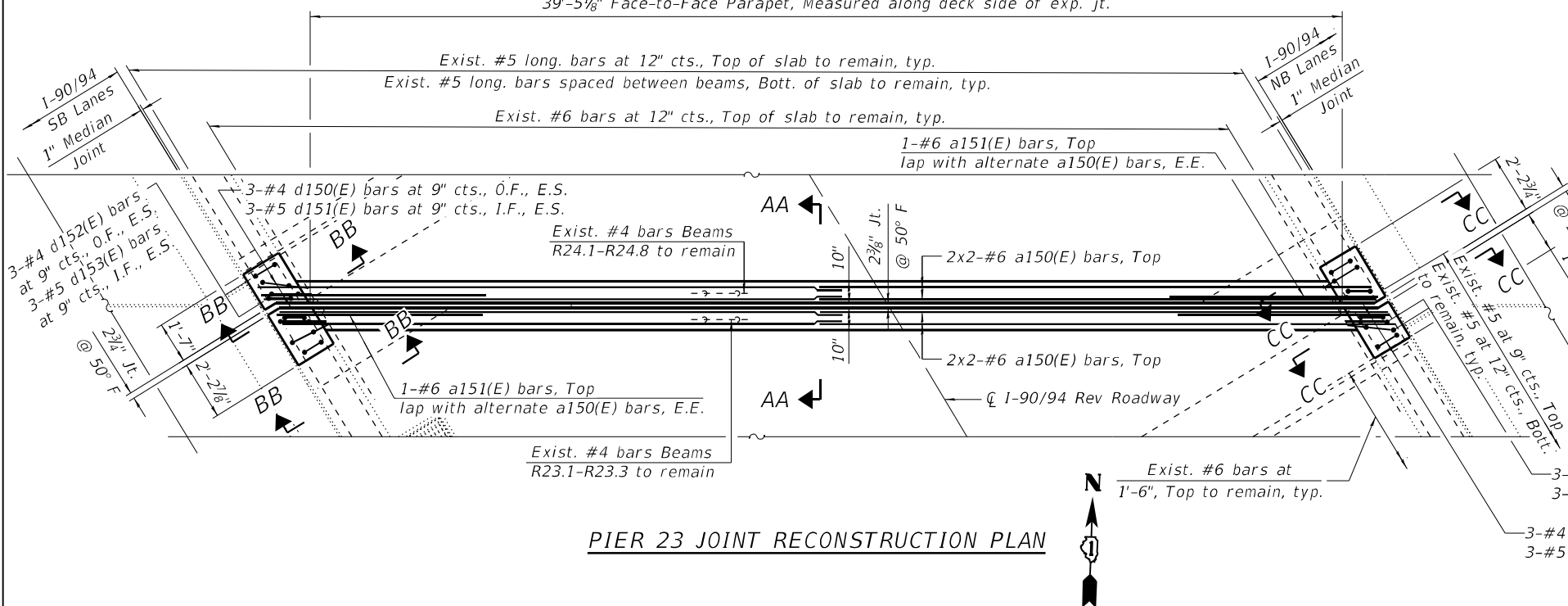
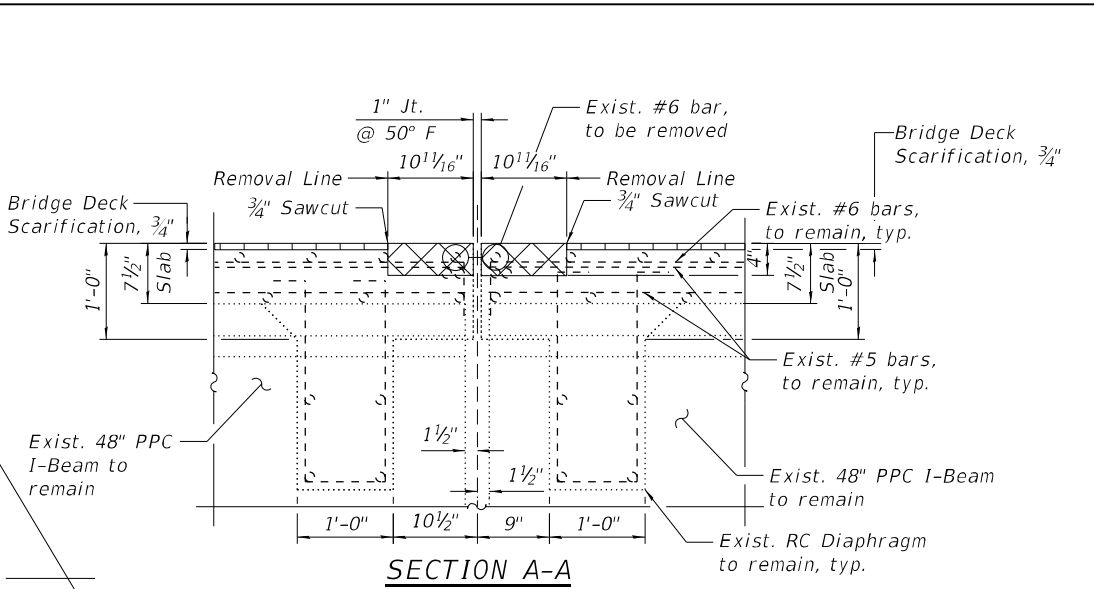
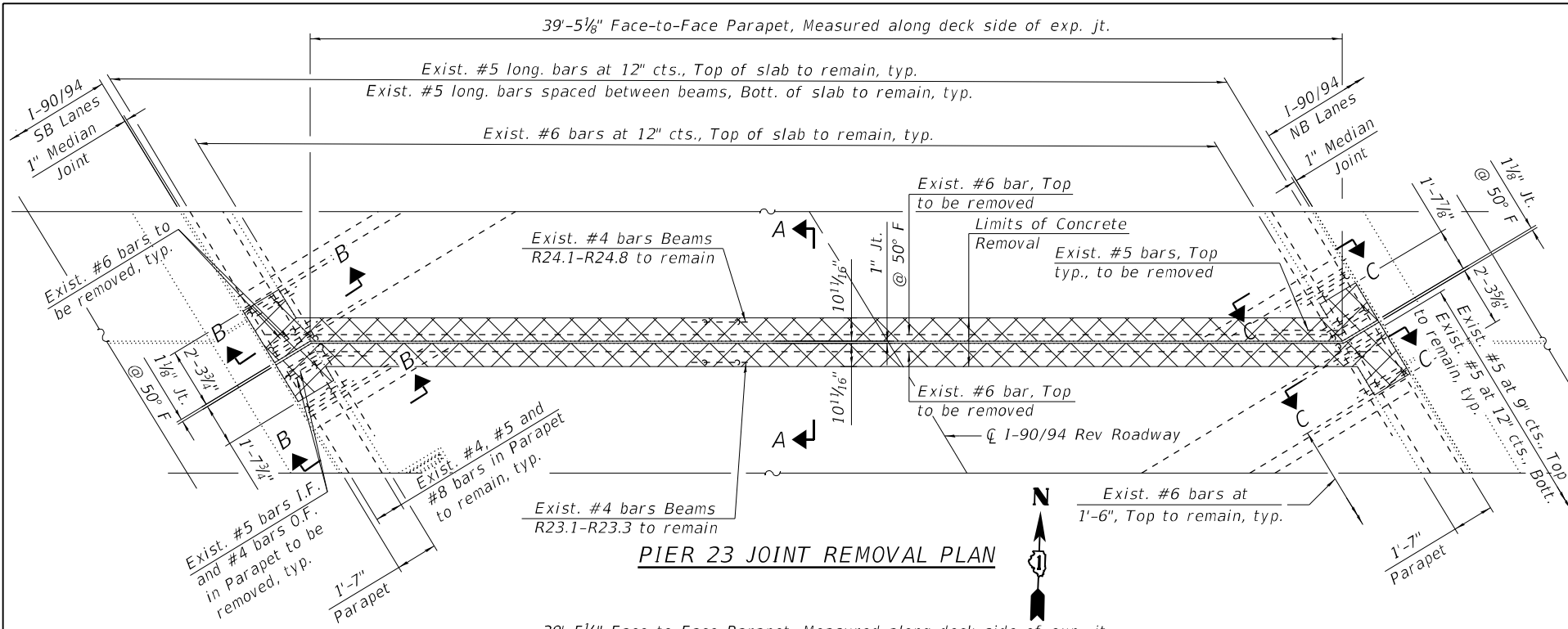
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


**PIER 22 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-40 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	657
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		



LEGEND:

 Concrete Removal

I.F. Inside Face

O.F. Outside Face

E.E. Each End

E.S. Each Side

NOTE:
 1. For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-42.

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HBM
 ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - JMI	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

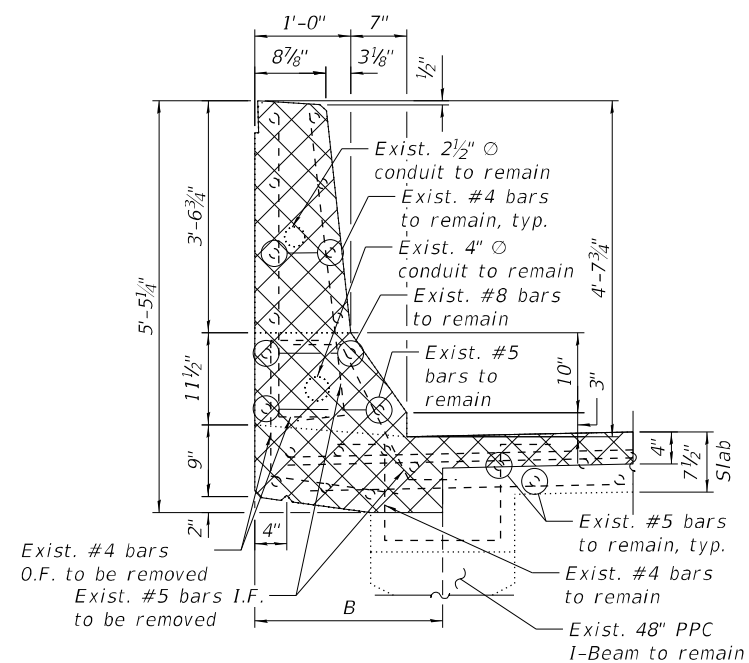
PIER 23 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
STRUCTURE NO. 016-0133 (REV)

SHEET S08-41 OF S08-78 SHEETS

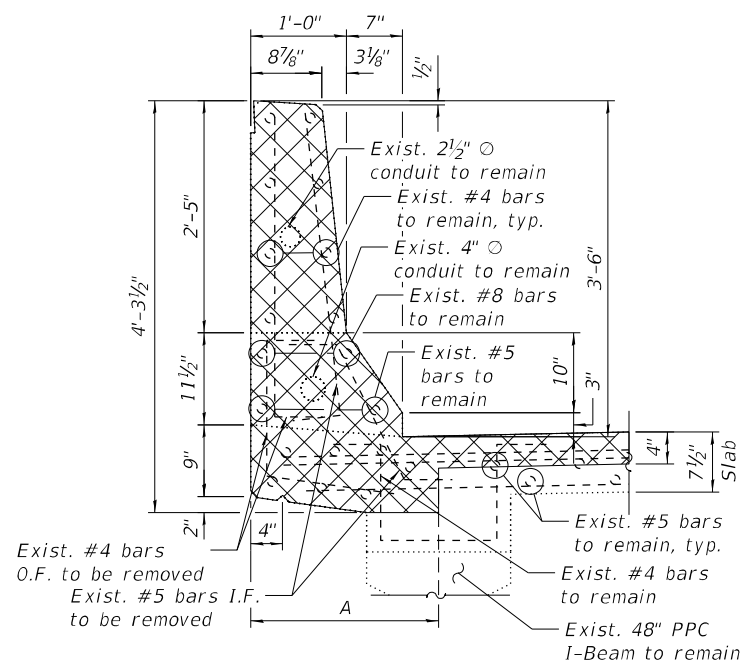
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	658
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

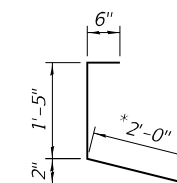
Item	No	Size	Length	Shape
a150(E)	8	#6	23'-5"	—
a151(E)	4	#6	6'-6"	—
d150(E)	12	#4	3'-11"	┌
d151(E)	12	#5	2'-7"	┌
d152(E)	6	#4	4'-10"	┌
d153(E)	6	#5	4'-10"	┌
d154(E)	6	#4	3'-8"	┌
d155(E)	6	#5	3'-8"	┌
Concrete Removal		Cu Yd	2.3	
Concrete Superstructure		Cu Yd	2.9	
Protective Coat		Sq Yd	9.3	
Reinforcement Bars, Epoxy Coated		Pound	480	



SECTION B-B

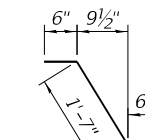


SECTION C-C

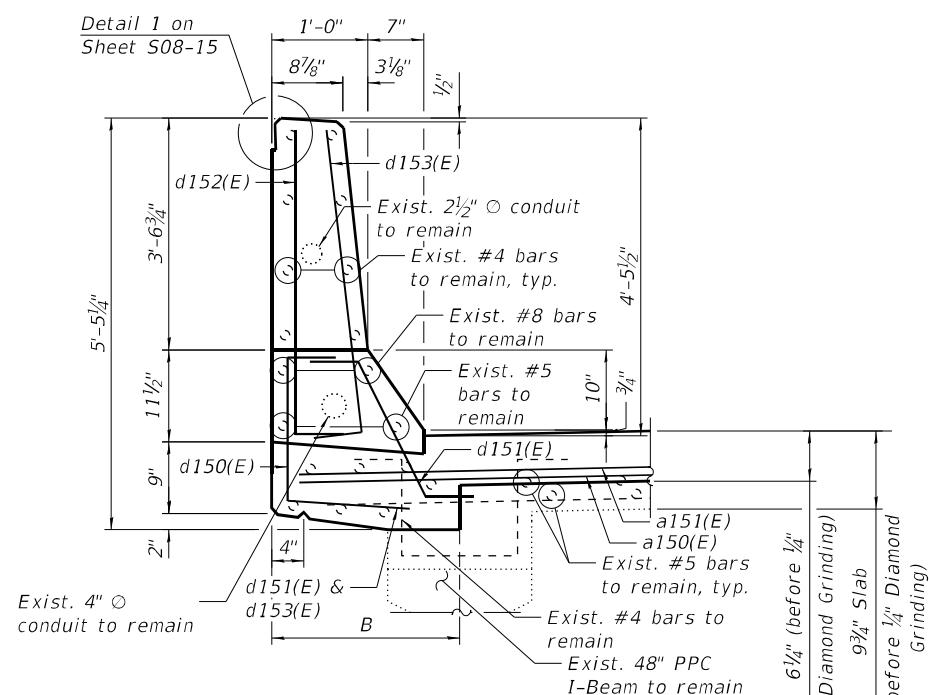


BAR d150(E)

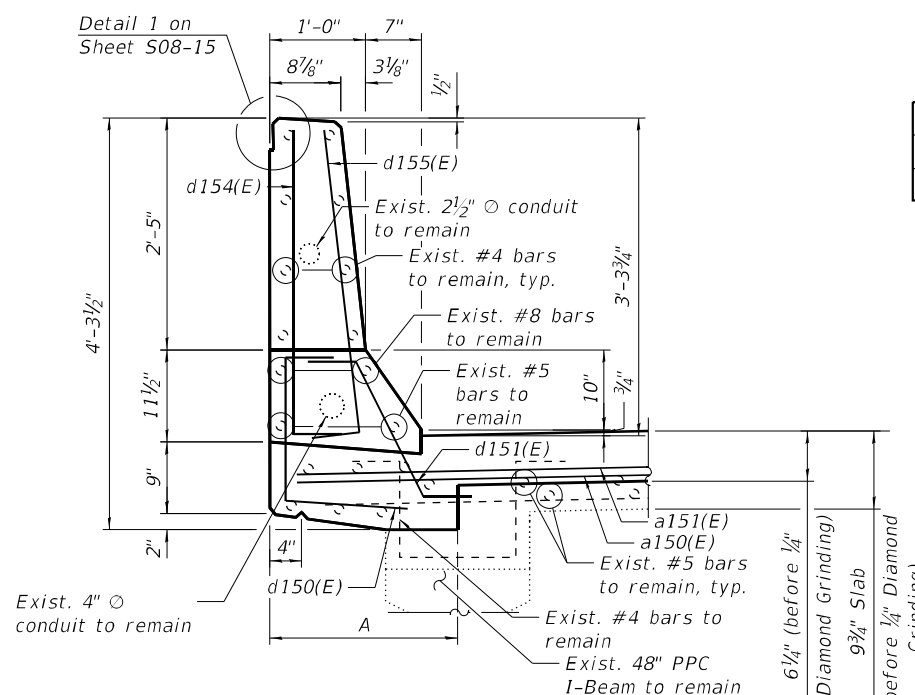
*Cut end bar in field to fit



BAR d151(E)

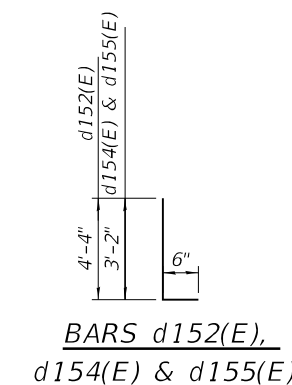


SECTION BB-BB

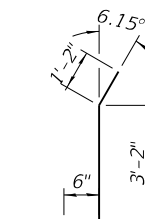


SECTION CC-CC

	A	B
south face	1'-11 1/2"	2'-9 1/4"
north face	2'-6 1/2"	2'-3 1/2"



BARS d152(E), d154(E) & d155(E)



BAR d153(E)

NOTES:

1. For legend, see Sheet S08-41.
2. For preformed joint strip seal details, see Sheet S08-45.
3. Removal and disposal of the existing expansion joints is included with Concrete Removal.

MIN. BAR LAPS

#6 4'-0"

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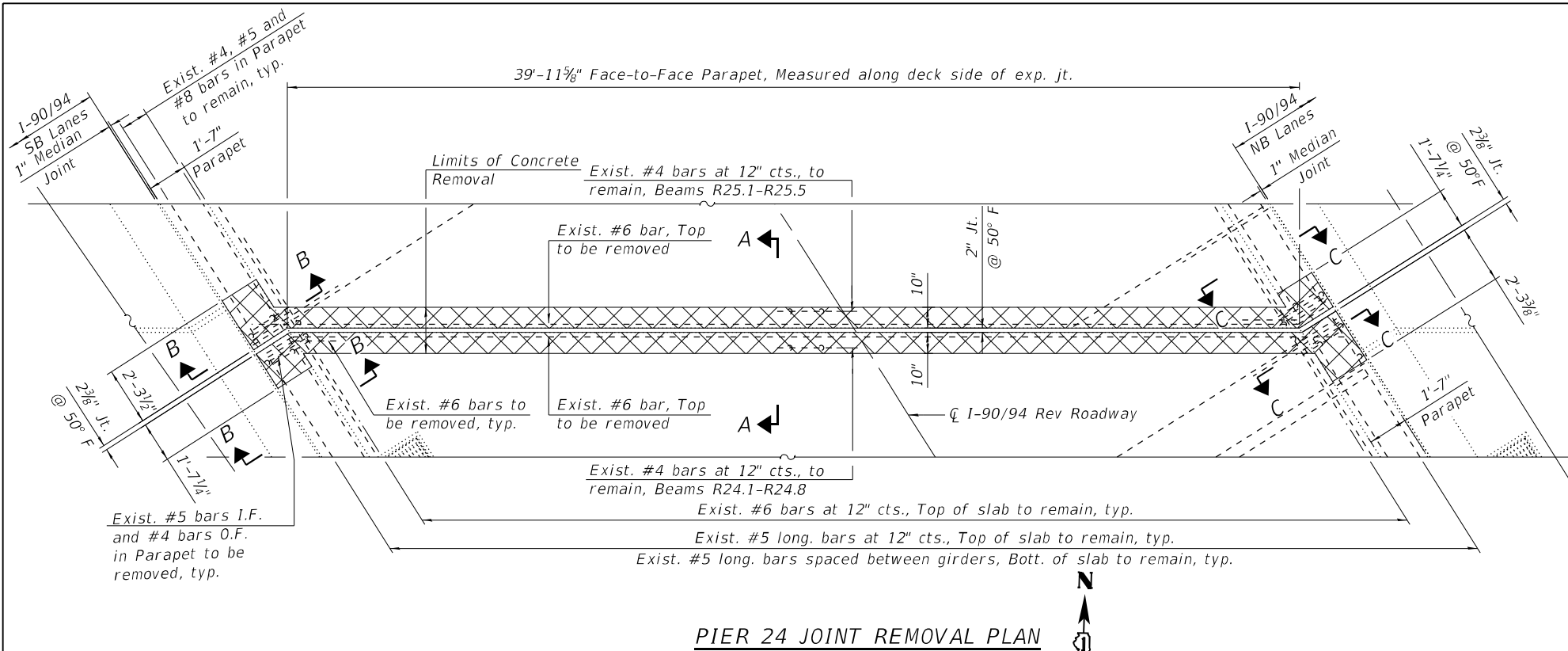
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

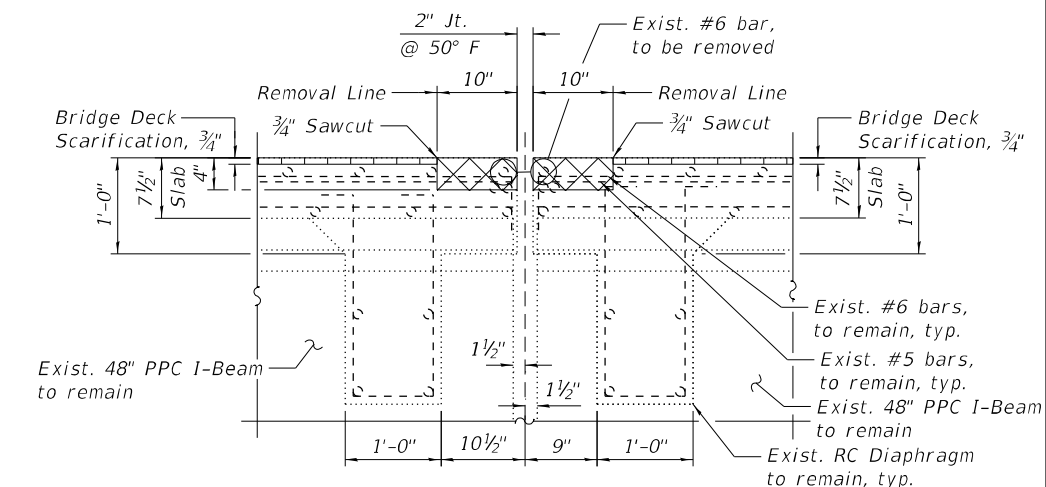
**PIER 23 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-42 OF S08-78 SHEETS

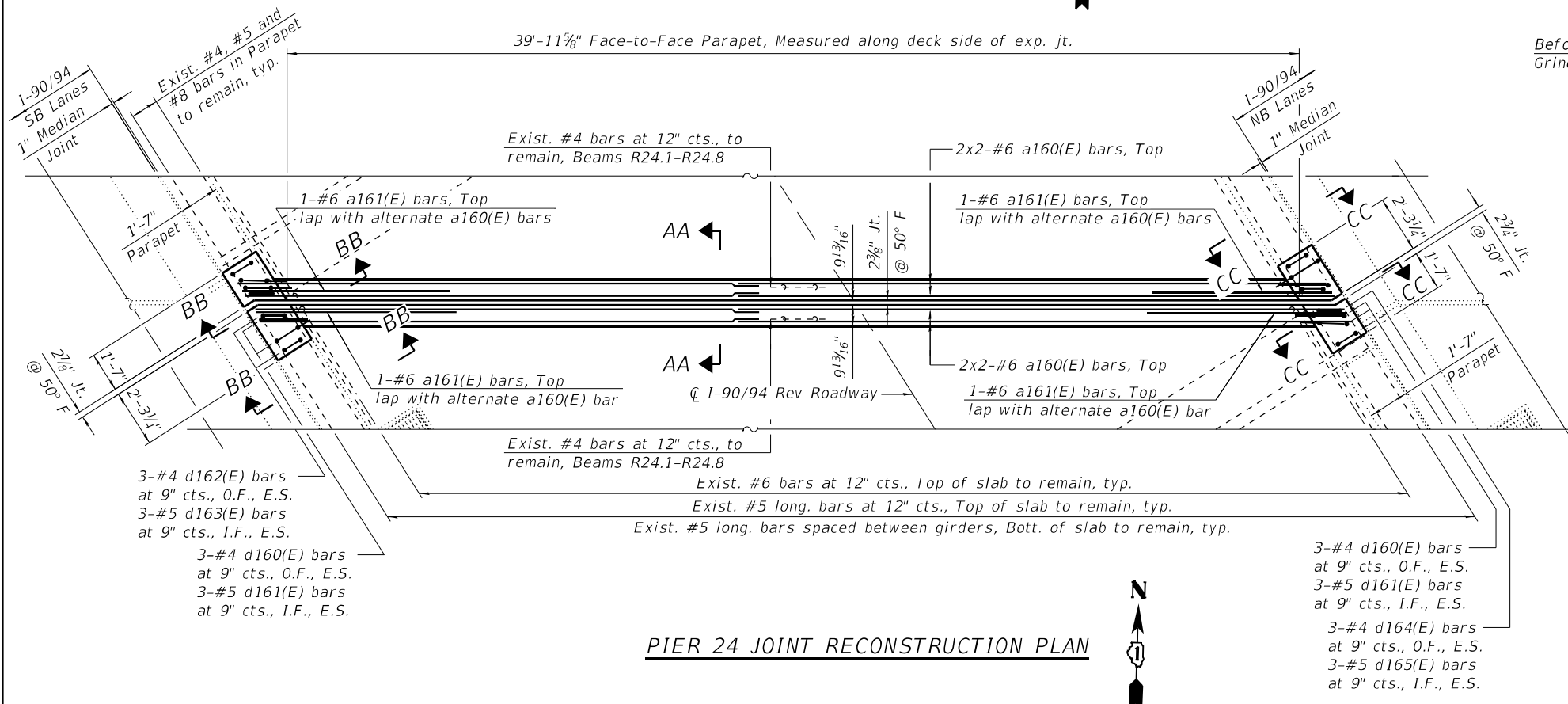
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	659
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



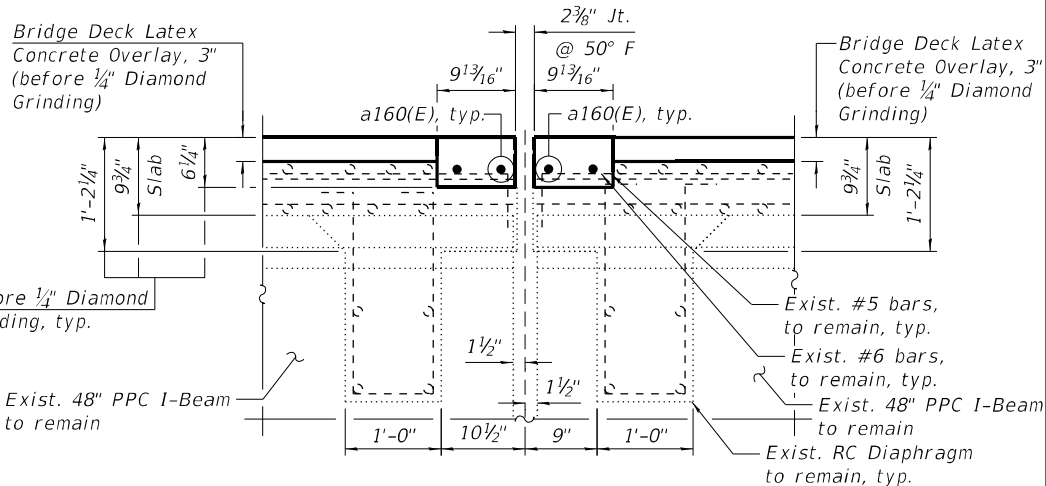
PIER 24 JOINT REMOVAL PLAN



SECTION A-A



PIER 24 JOINT RECONSTRUCTION PLAN



SECTION AA-AA

LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.S.	Each Side

NOTE:

- For Sections B-B, C-C, BB-BB and CC-CC, additional Notes, Bar Diagrams and Bill of Material, see Sheet S08-44.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 24 JOINT REMOVAL & REPLACEMENT (SHT. 1 OF 2)
STRUCTURE NO. 016-0133 (REV)

SHEET S08-43 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	660
CONTRACT NO. 62K74				

ILLINOIS FED. AID PROJECT

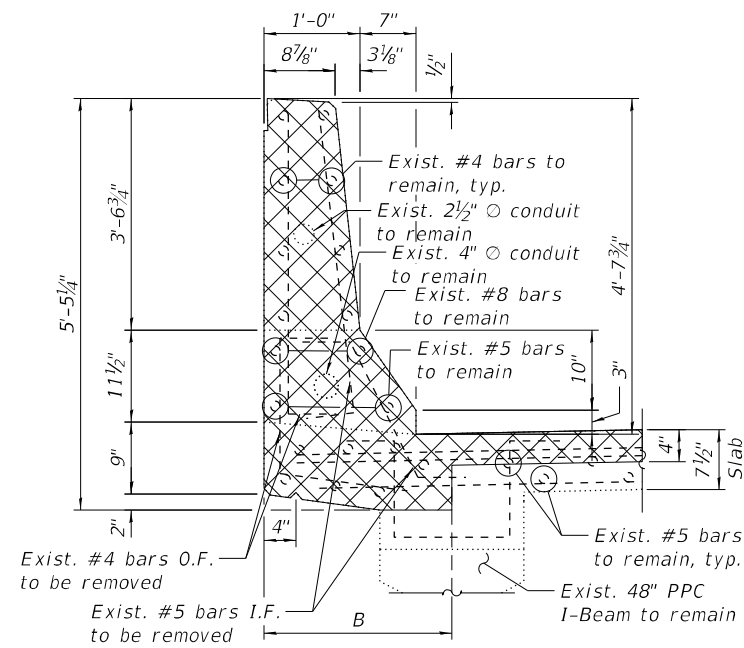
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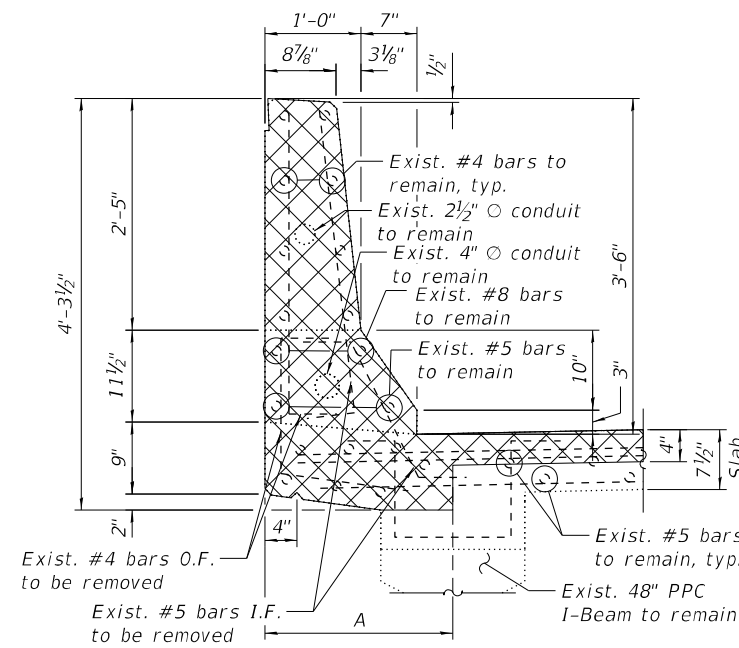
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BILL OF MATERIAL

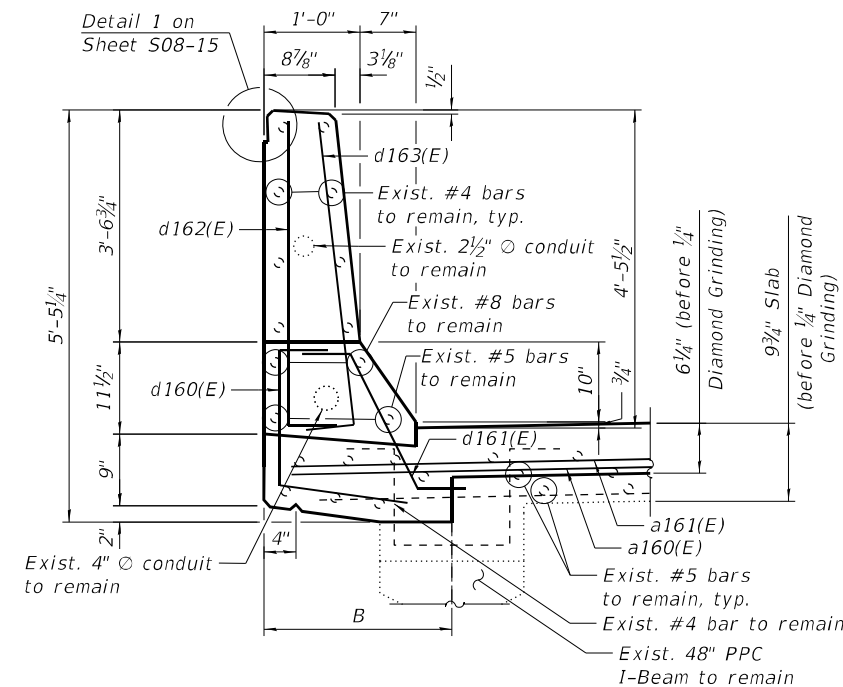
Item	No	Size	Length	Shape
a160(E)	8	#6	23'-8"	—
a161(E)	4	#6	6'-6"	—
d160(E)	12	#4	4'-3"	⌒
d161(E)	12	#5	2'-7"	⌒
d162(E)	6	#4	4'-10"	⌒
d163(E)	6	#5	4'-10"	⌒
d164(E)	6	#4	3'-8"	⌒
d165(E)	6	#5	3'-8"	⌒
Concrete Removal		Cu Yd	2.6	
Concrete Superstructure		Cu Yd	3	
Protective Coat		Sq Yd	9.3	
Reinforcement Bars, Epoxy Coated		Pound	480	



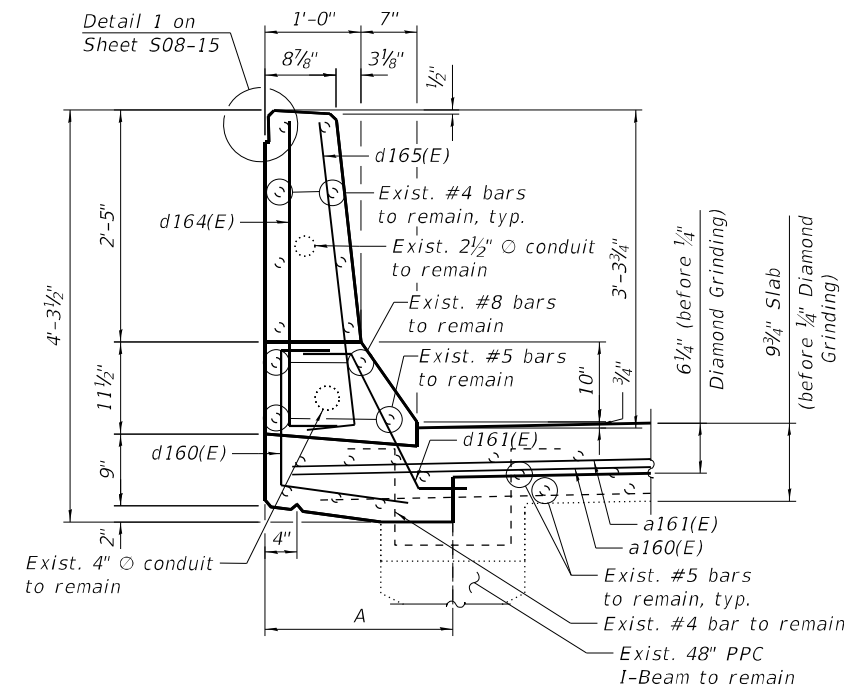
SECTION B-B



SECTION C-C

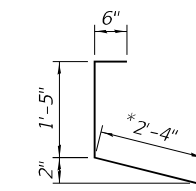


SECTION BB-BB



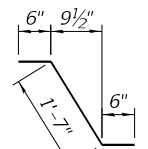
SECTION CC-CC

	A	B
south face	1'-4 3/4"	3'-5 1/4"
north face	-	2'-10 3/4"

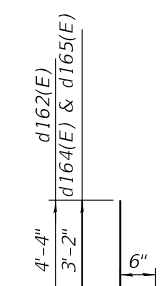


BAR d160(E)

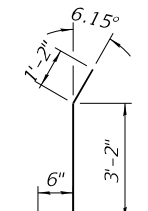
*Cut end bar in field to fit



BAR d161(E)



BARS d162(E), d164(E) & d165(E)



BAR d163(E)

NOTES:

1. For legend, see Sheet S08-43.
2. For preformed joint strip seal details, see Sheet S08-45.
3. Removal and disposal of the existing expansion joints is included with Concrete Removal.

MIN. BAR LAPS

#6 4'-0"

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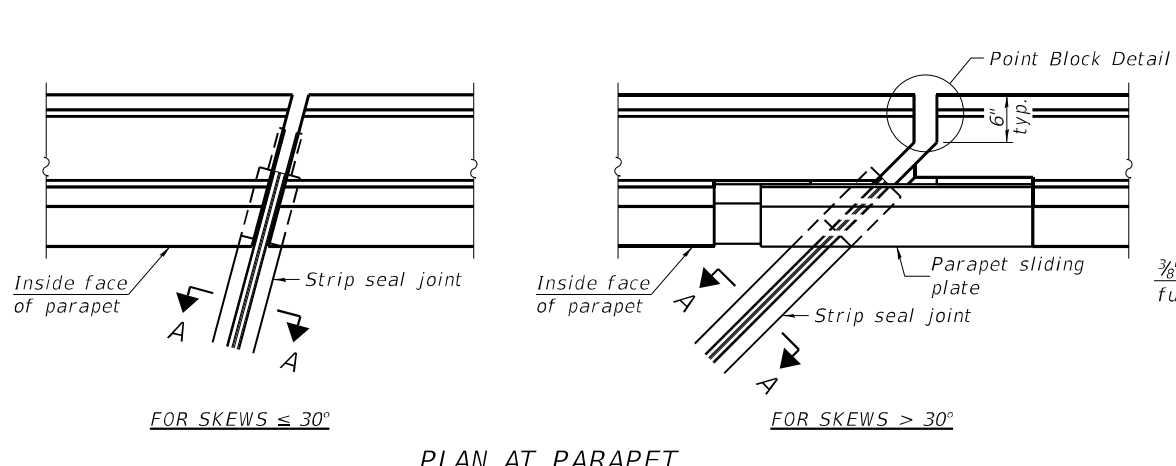
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 24 JOINT REMOVAL & REPLACEMENT (SHT. 2 OF 2)
STRUCTURE NO. 016-0133 (REV)**

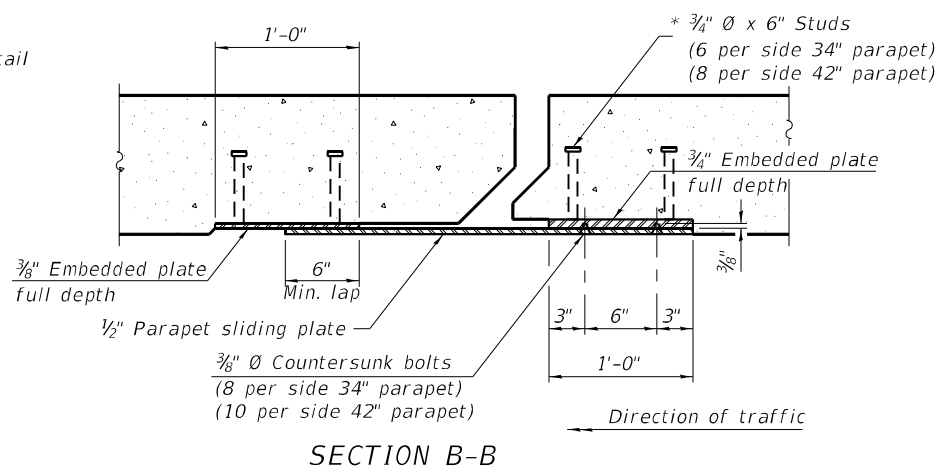
SHEET S08-44 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	661
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

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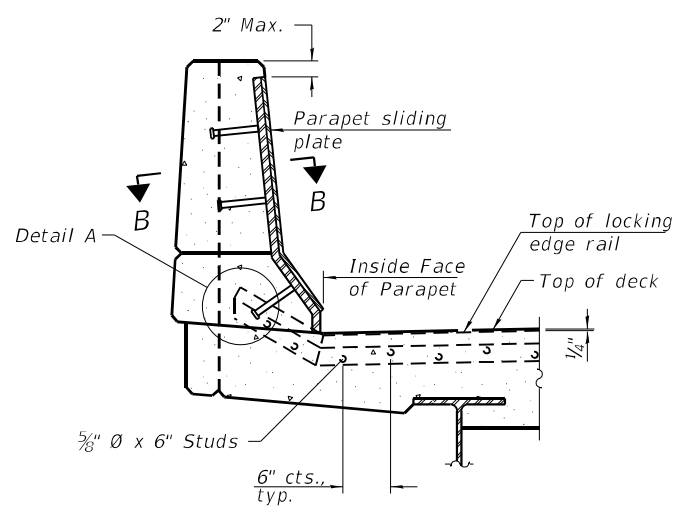


PLAN AT PARAPET



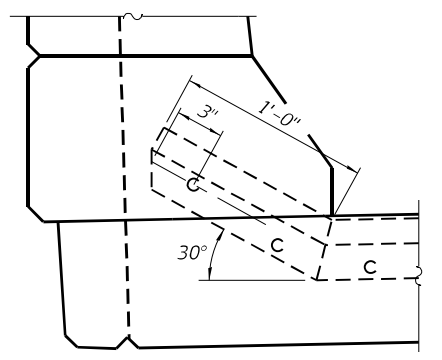
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.

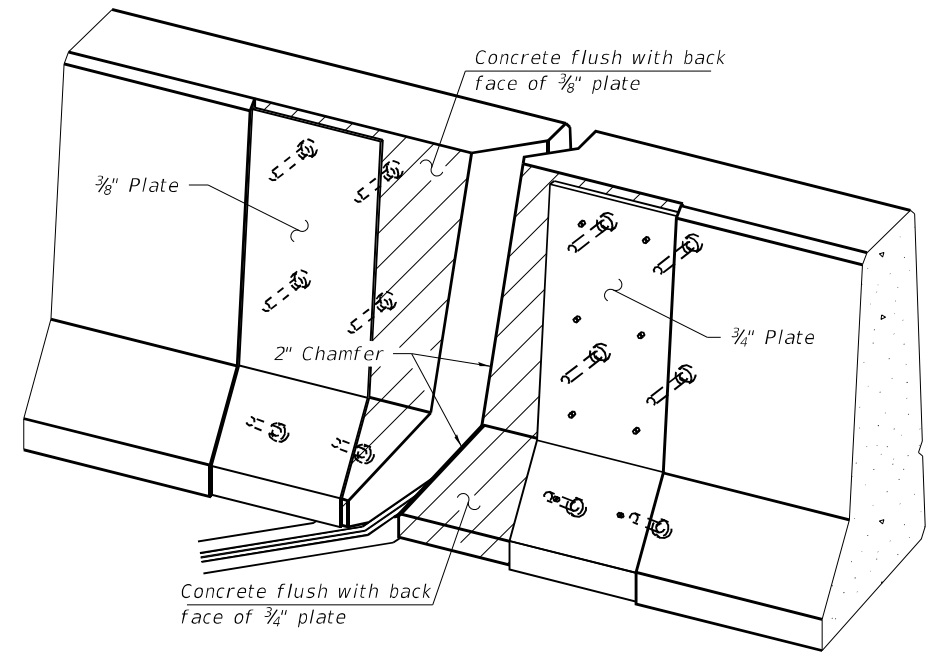


ELEVATION AT PARAPET

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

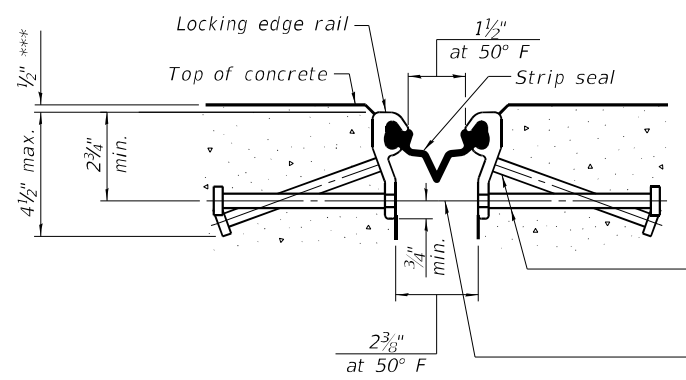


DETAIL A



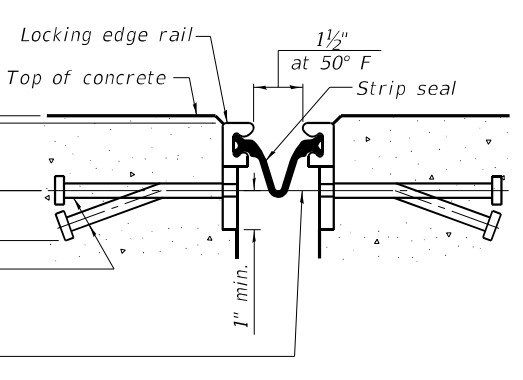
TRIMETRIC VIEW
 (Showing embedded plates only)

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

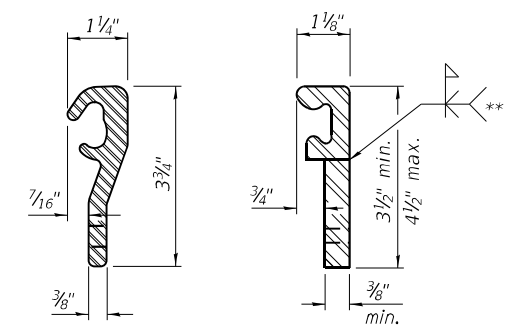


SHOWING ROLLED RAIL JOINT

* 3/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" Ø threaded rods in 1/16" 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.

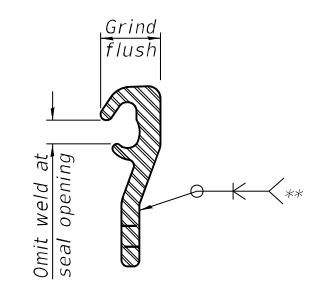


SHOWING WELDED RAIL JOINT



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	646



USER NAME =	DESIGNED - JMI	REVISED -
PLOT SCALE =	CHECKED - MAI	REVISED -
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	DATE - 9/13/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

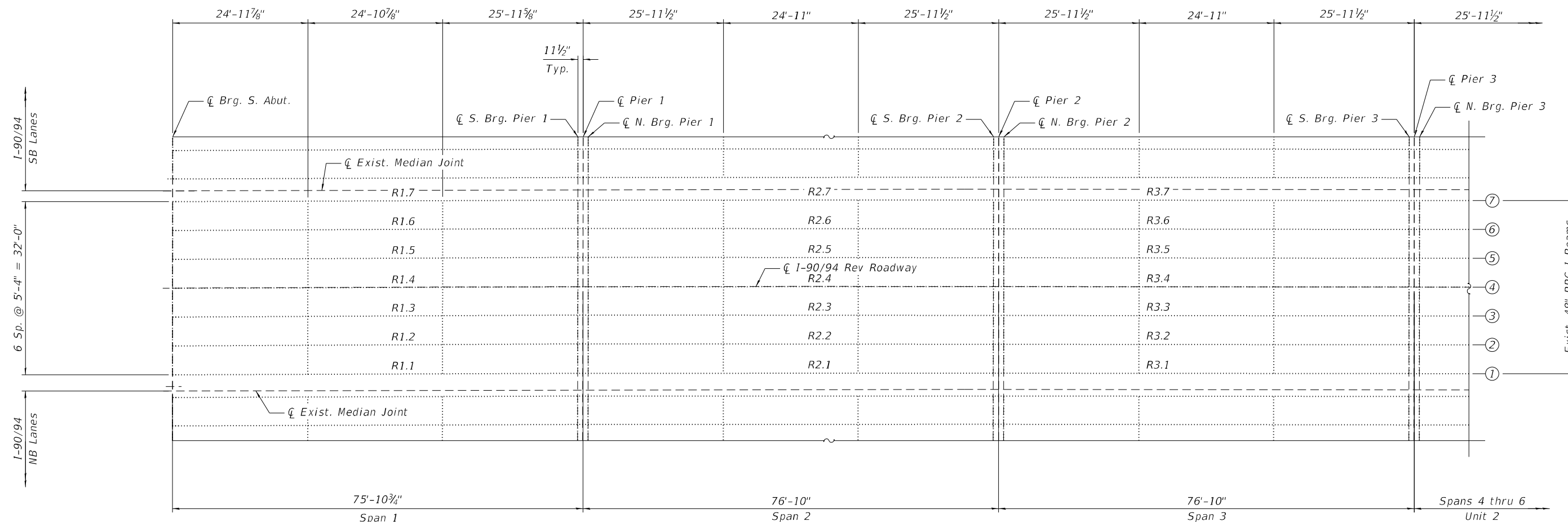
PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 016-0133 (REV)

SHEET S08-45 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	662
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete I-Beam Repair	Sq Ft	666
Acrylic Coating	Sq Yd	987
Fiber Wrap	Sq Ft	8,876
Cleaning And Painting Steel Bridge No. 1	L Sum	1



FIBER WRAP NOTES:

- Repairs shown are based on field inspection. Conditions in field may have changed. Verify all dimensions in the field prior to ordering any material or commencement of any work.
- It is the Contractor's responsibility to work around existing utilities in the Fiber Wrap Repair Area.
- It is the Contractor's responsibility to remove any protrusions in the concrete in the Fiber Wrap Repair Area.
- Repair method for delamination and/or spall shall require Polymer Modified Portland Cement Mortar Repair prior to Fiber Wrap Repair.
- Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign articles, disintegrated materials, and other bond inhibiting materials from the surface.
- Existing uneven surfaces must be filled with an appropriate polymer concrete.
- Cracks with width greater than 0.012 inch must be stabilized using epoxy injection methods. Use Manufacturer's data sheets for information on mixing epoxy resin.
- Prior to placing the fiber wrap material, the concrete surface is to be sandblasted and cleaned.
- Beam corners shall be rounded to at least 3/4" radius and smoothed to a surface finish prior to application of fibers.
- System is a vapor barrier. Don't encapsulate concrete if any surface moisture is present.

FRAMING PLAN - UNIT 1

FIBER WRAP NOTES (CONT.):

- Carbon Fabric is non-reactive. However, caution must be used when handling since a fine "Carbon Dust" may be present on the surface. Gloves and protective face masks must, therefore, be worn to protect against any respiratory problems and skin irritation. Wrap the identified girders with the specified number of wraps as indicated.
- For Beam Repair Details and Tables, see Sheets S08-53 thru S08-62.
- For General Notes and Total Bill of Material, see Sheet S08-06.
- The Contractor is responsible to remove and relocate existing utilities interfering with the work.

BEARING PAINT NOTES:

- For bearing locations and existing plans, see Sheets S08-57 thru S08-65.
- Only the existing bearings under the PPC I-beams shall be cleaned and painted. This cleaning and painting shall be performed before FRP repairs for the PPC I-beams.
- Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures".
- All bearings shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC-SP-15).
- All ends of beams and diaphragms shall be protected during the cleaning and painting. Any damage to the adjacent surfaces (including, but not limited to, adjacent steel beams and diaphragms) shall be repaired at no additional cost to the Department.
- The designated areas cleaned per Commercial Grade Power Tool Cleaning (SSPC-SP-15) shall be painted according to the requirements of Paint System 1 - Organic Zinc-Rich Primer / Epoxy Intermediate Coat / Urethane Top Coat (OZ/E/U). The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.
- A minimum of four (4) air monitors will be required at each location to monitor abrasive blasting operations at this site. See Special Provision for "Containment and Disposal of Lead Paint Cleaning Residues".
- SSPC QP1 and SSPC QP2 Certification is required for this Contract.

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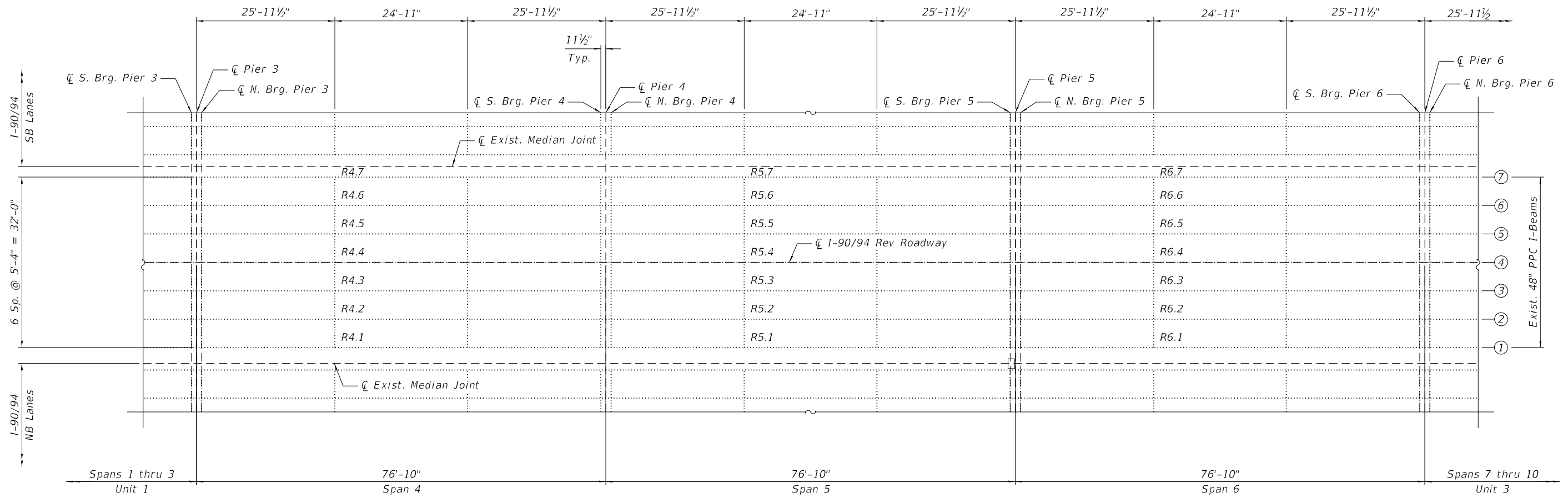
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN REPAIRS (SHEET 1 OF 7)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-46 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	663
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

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FRAMING PLAN - UNIT 2



NOTE:

1. For notes and details, see Sheet S08-46.



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PLOT DATE =	DATE - 9/13/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

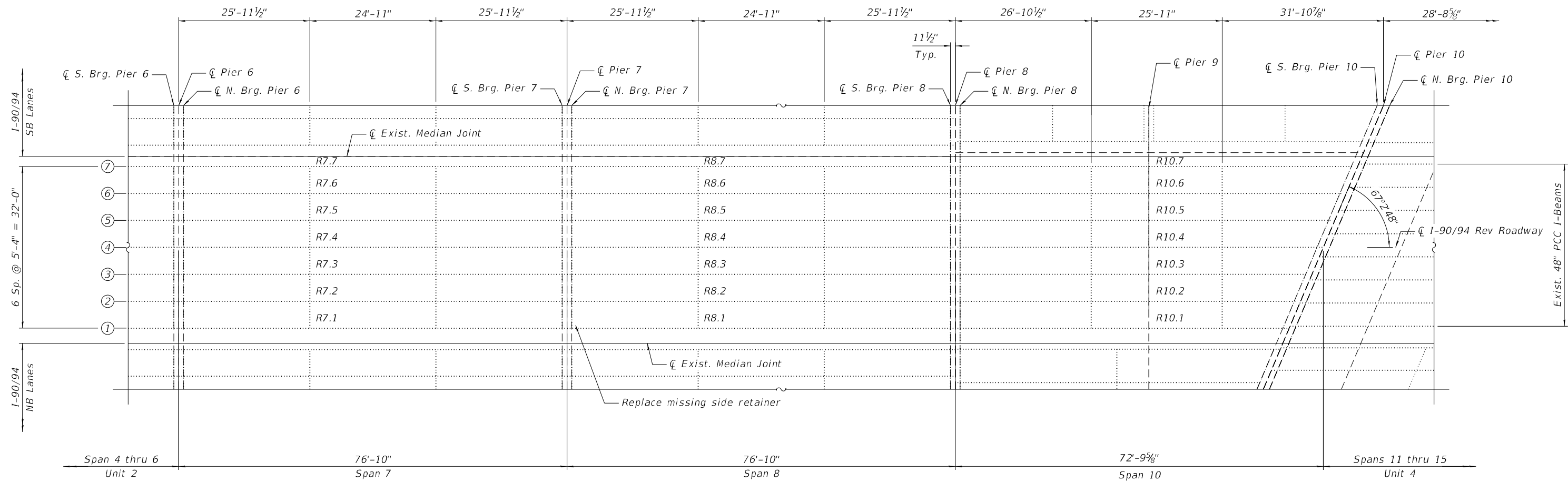
FRAMING PLAN REPAIRS (SHEET 2 OF 7)
 STRUCTURE NO. 016-0133 (REV)

SHEET S08-47 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	664
			CONTRACT NO. 62K74	
		ILLINOIS FED. AID PROJECT		

BILL OF MATERIAL

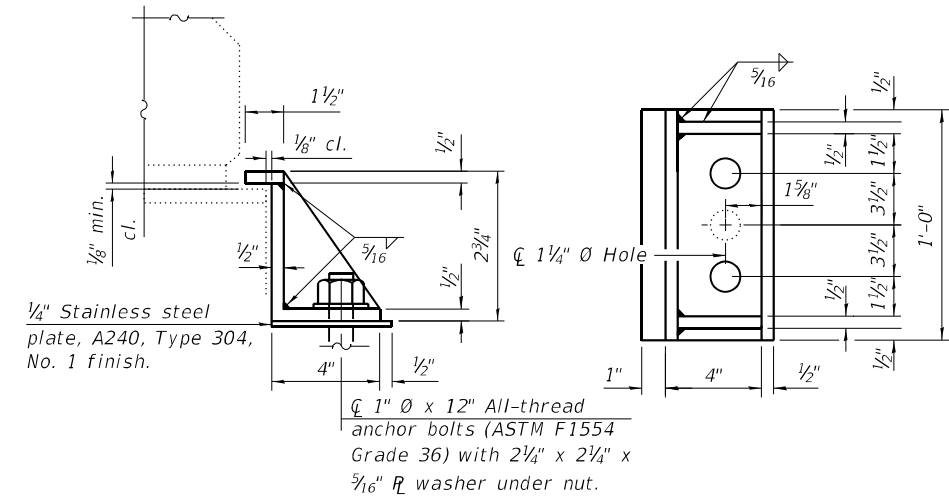
Item	Unit	Quantity
Structural Steel Repair	Pound	20
Anchor Bolts, 1"	Each	2



FRAMING PLAN - UNIT 3

NOTES:

- 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.
- All side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
- Drill anchor bolts to miss existing reinforcement.
- For additional notes and details, see Sheet S08-46.



SIDE RETAINER

(Beam R8.1, West Face at Pier 7)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

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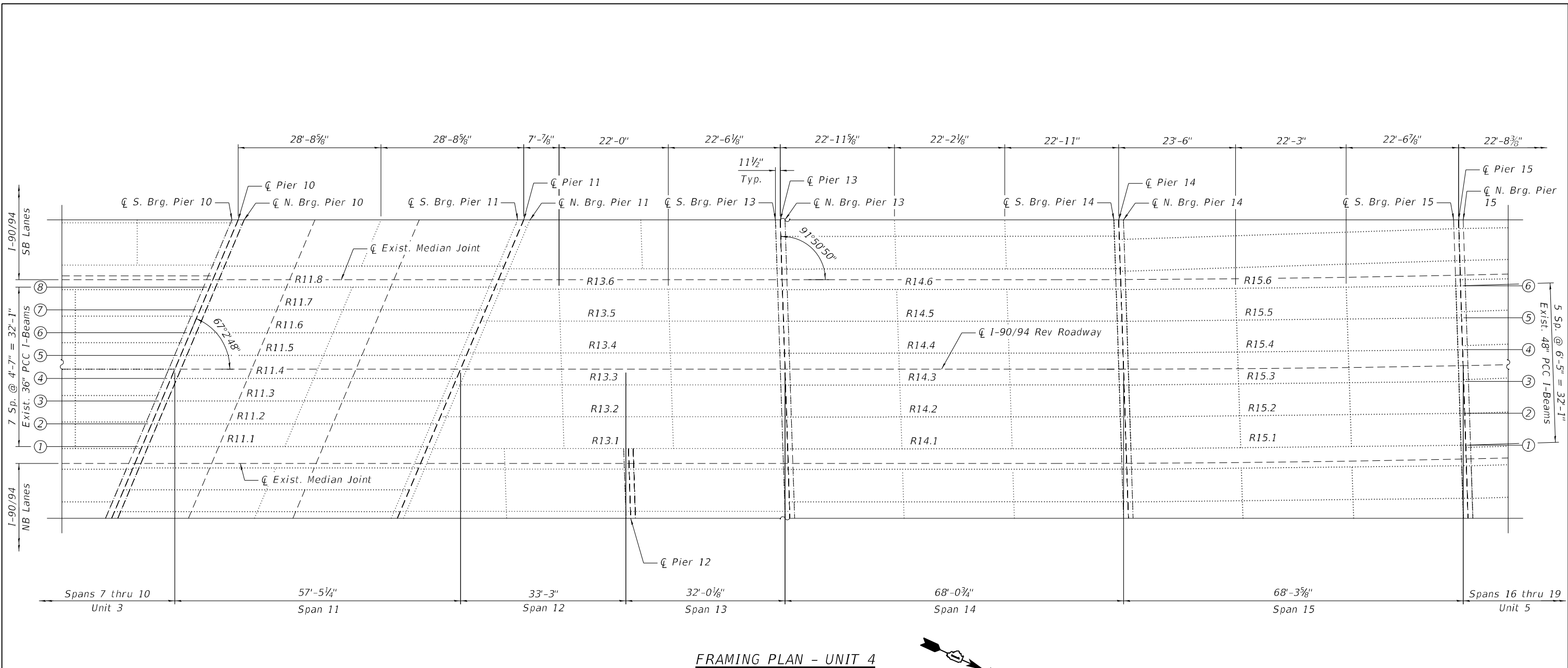
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN REPAIRS (SHEET 3 OF 7)
STRUCTURE NO. 016-0133 (REV)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	665
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

SHEET S08-48 OF S08-78 SHEETS

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FRAMING PLAN - UNIT 4

NOTE:
 1. For notes and details, see Sheet S08-46.



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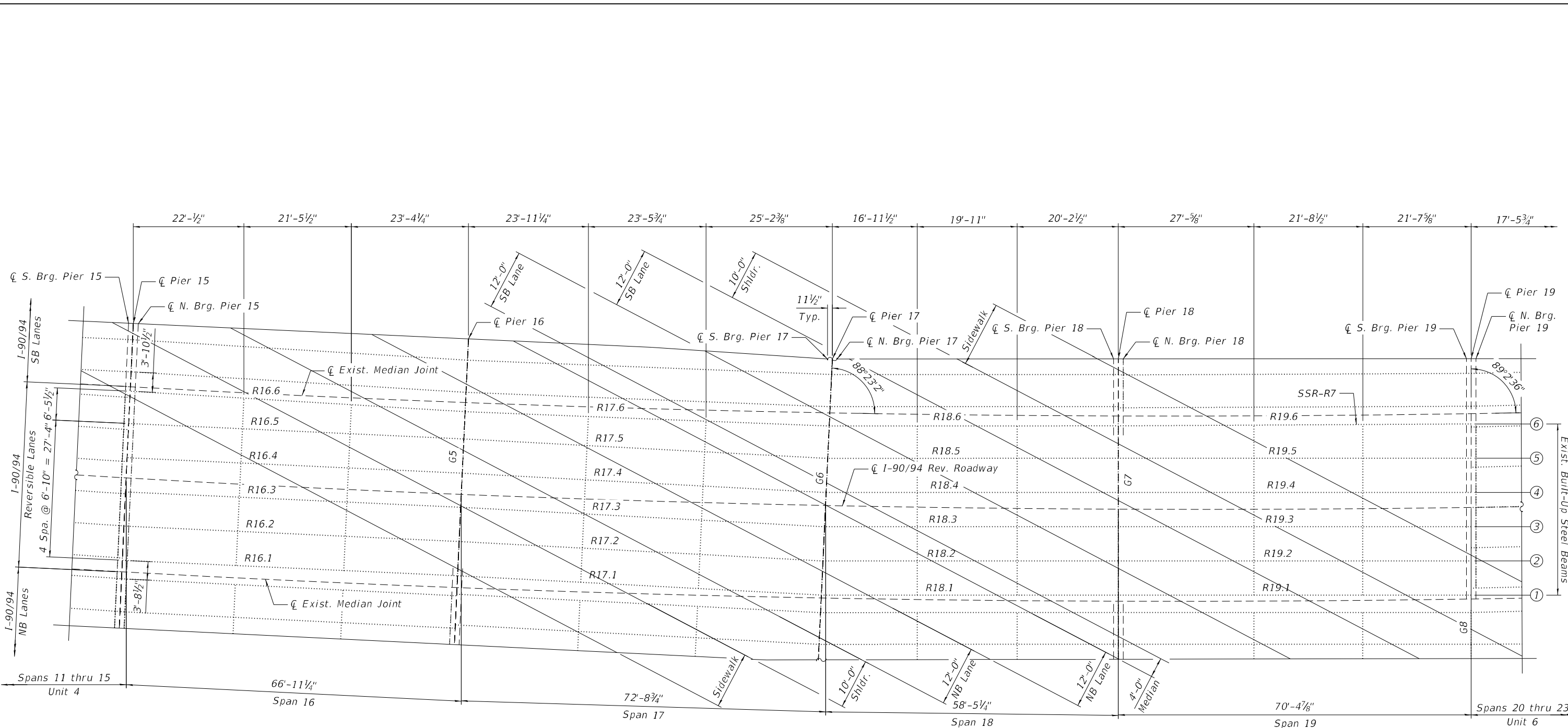
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN REPAIRS (SHEET 4 OF 7)
 STRUCTURE NO. 016-0133 (REV)**

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90/94	2020-004-BR	COOK	1492	666
CONTRACT NO. 62K74				
		ILLINOIS	FED. AID PROJECT	

SHEET S08-49 OF S08-78 SHEETS

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FRAMING PLAN - UNIT 5

NOTE:

- For notes and details, see Sheet S08-46.



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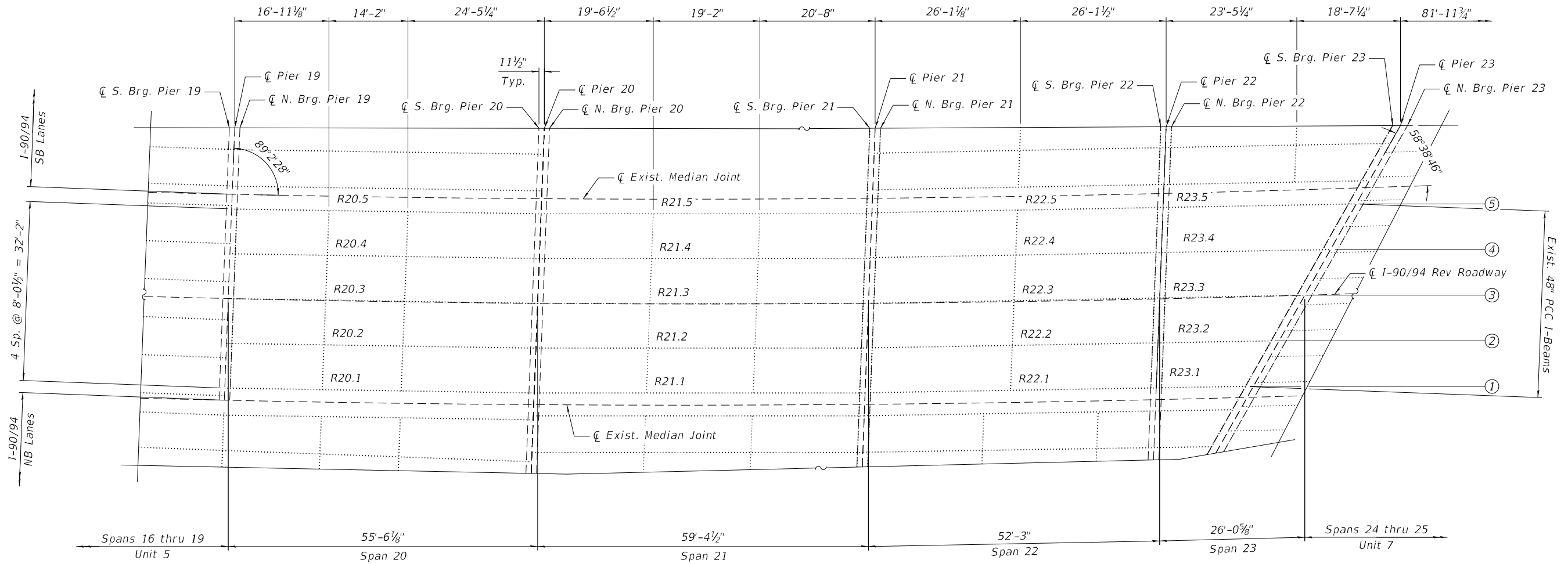
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN REPAIRS (SHEET 5 OF 7)
 STRUCTURE NO. 016-0133 (REV)

SHEET S08-50 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	667
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

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FRAMING PLAN - UNIT 6

NOTE:

1. For notes and details, see Sheet S08-46.



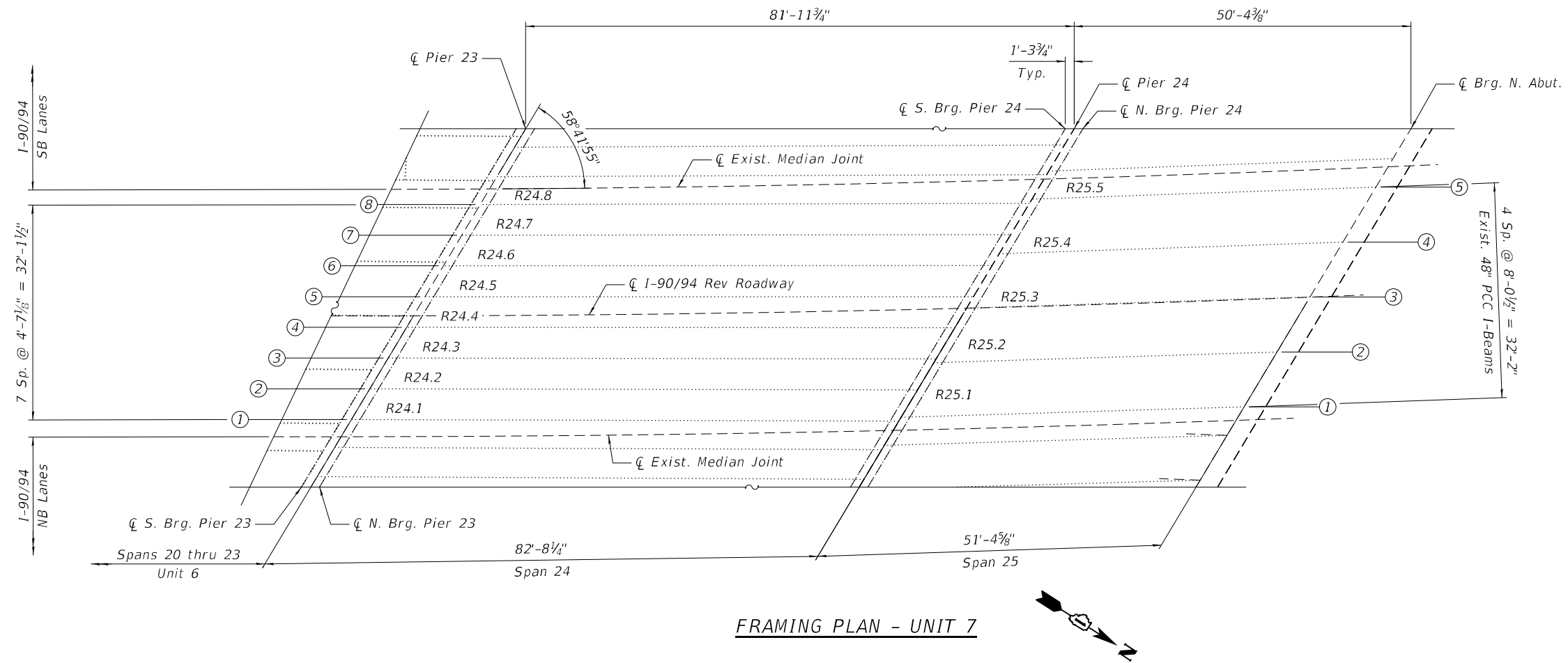
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**STATE OF ILLINOIS
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**FRAMING PLAN REPAIRS (SHEET 6 OF 7)
 STRUCTURE NO. 016-0133 (REV)**

SHEET S08-51 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	668
CONTRACT NO. 62K74			ILLINOIS FED. AID PROJECT	



FRAMING PLAN - UNIT 7

NOTE:
 1. For notes and details, see Sheet S08-46.

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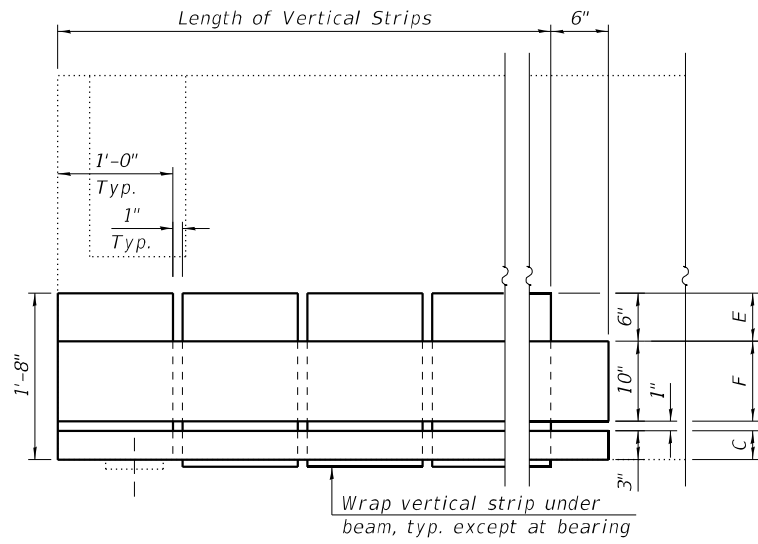
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

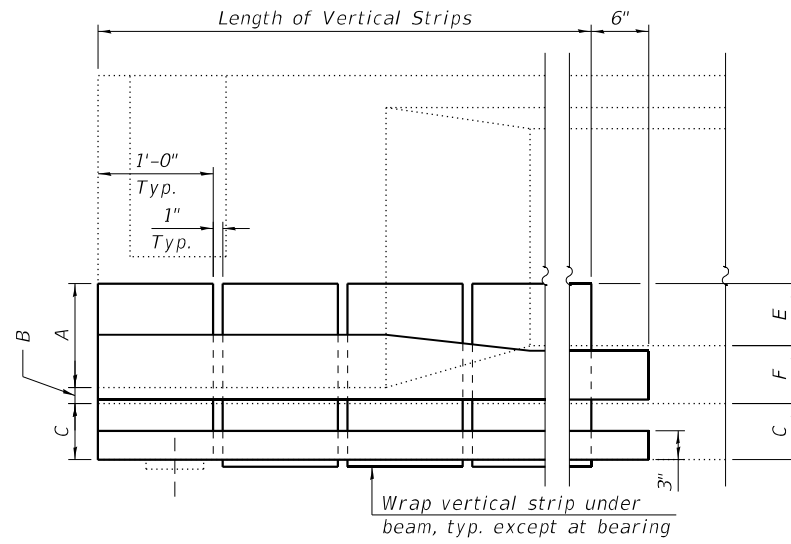
FRAMING PLAN REPAIRS (SHEET 7 OF 7)
 STRUCTURE NO. 016-0133 (REV)

SHEET S08-52 OF S08-78 SHEETS

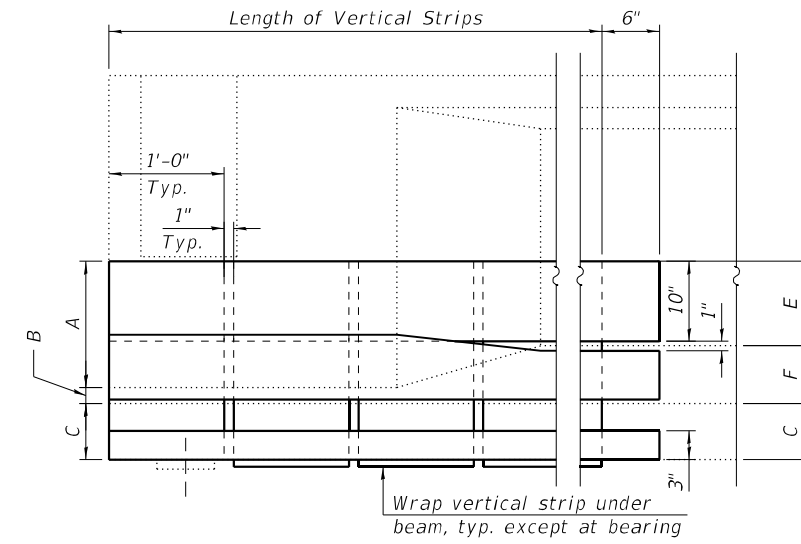
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90/94	2020-004-BR	COOK	1492	669
CONTRACT NO. 62K74				
		ILLINOIS	FED. AID PROJECT	



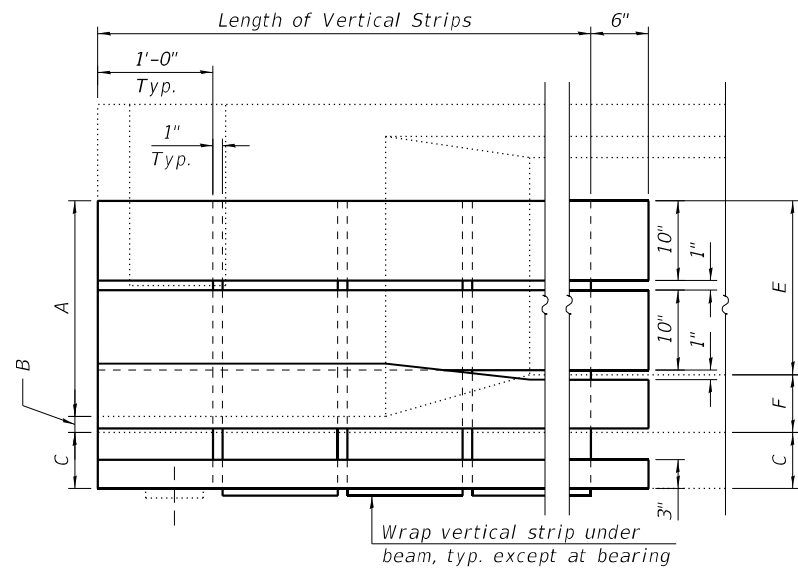
PPC BEAM REPAIR TYPE 1
1990s 2'-6" Beams



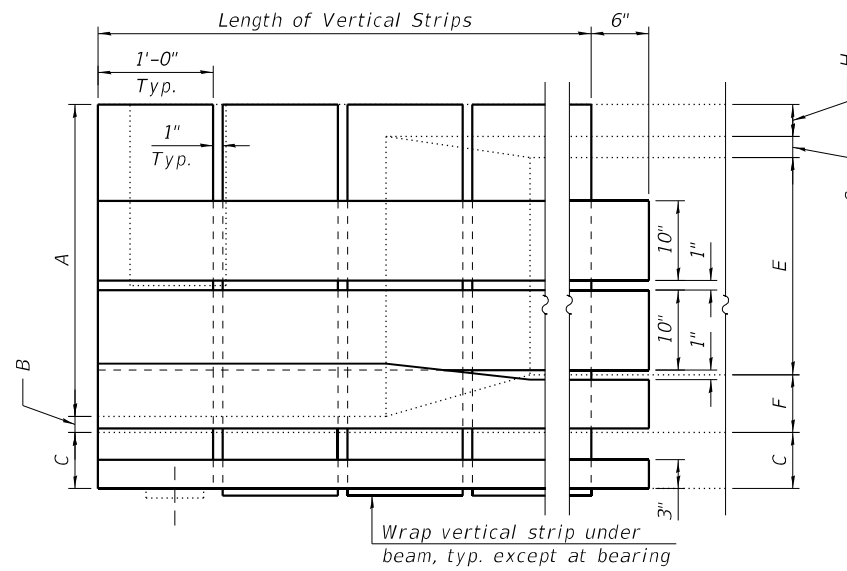
PPC BEAM REPAIR TYPE 1
All Original Beams
and 1990s 3'-0" and 4'-0" Beams



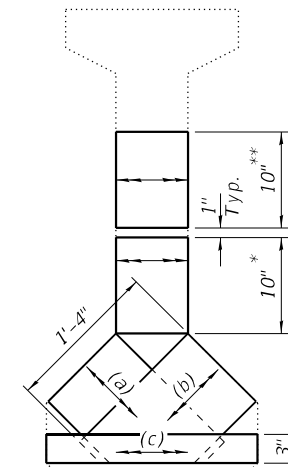
PPC BEAM REPAIR TYPE 2



PPC BEAM REPAIR TYPE 3

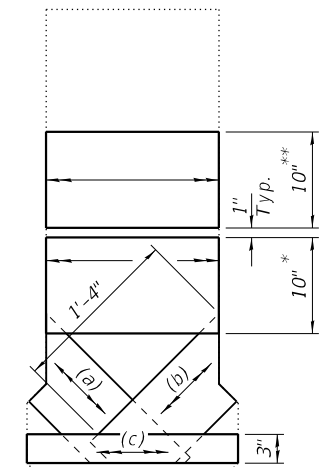


PPC BEAM REPAIR TYPE 4



FRP TREATMENT AT END OF BEAM
1993 PPC I-beams

direction
FRP
Note:
Place FRP in the following order (a), (b) and (c).



FRP TREATMENT AT END OF BEAM
Original PPC I-beams

direction
FRP
Note:
Place FRP in the following order (a), (b) and (c).

*Types 2, 3 & 4
**Types 3 & 4

NOTES:

1. Dimensions B, F and G are measured along the length of the flange as shown in cross sections.
2. For PPC I-beam Cross Sections, See Sheets S08-54 and S08-55.
3. For midspan repairs, see Sheet S08-56.
4. For dimensions and quantities, see Sheets S08-57 thru S08-62.

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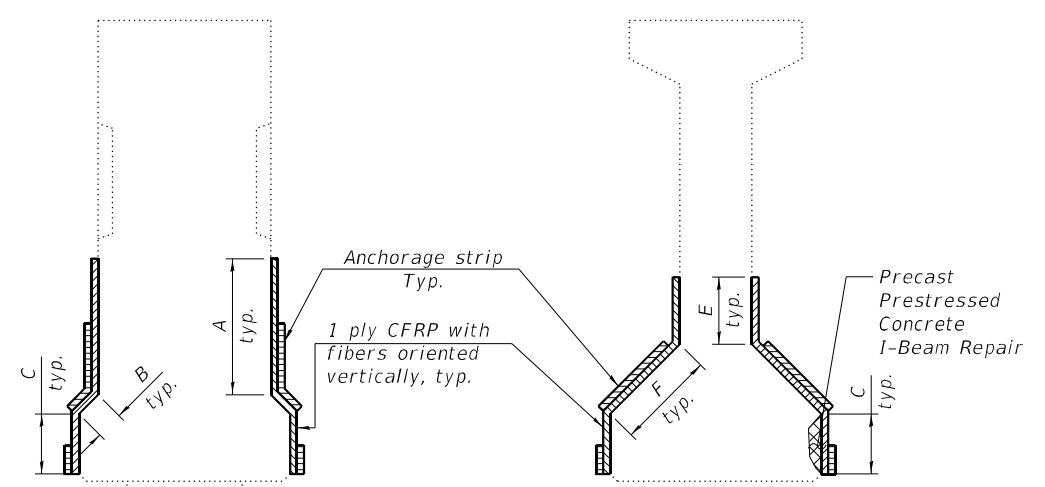
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC BEAM REPAIRS (SHEET 1 OF 4)
STRUCTURE NO. 016-0133 (REV)

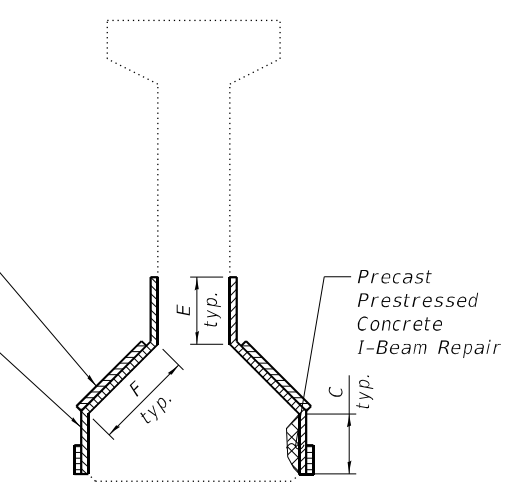
SHEET S08-53 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

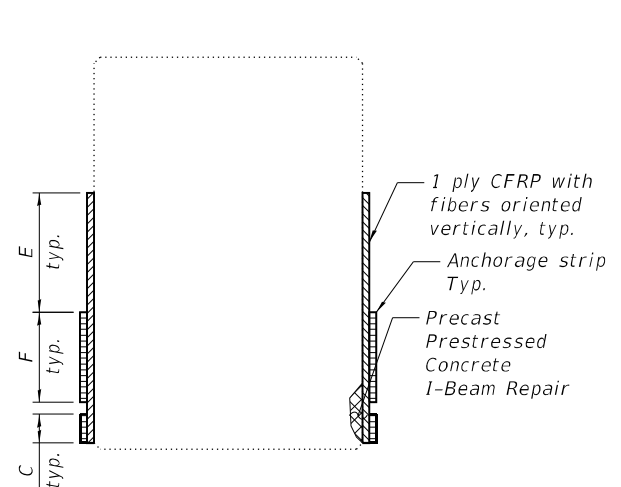
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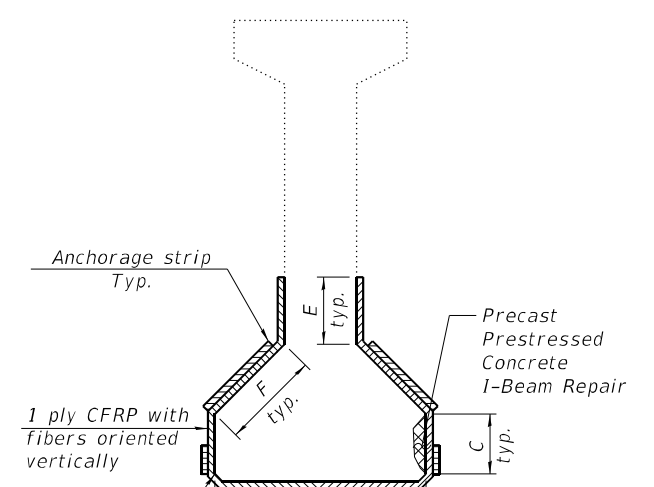
SECTION THRU BEARING
TYPE 1
 Original PPC I-Beams



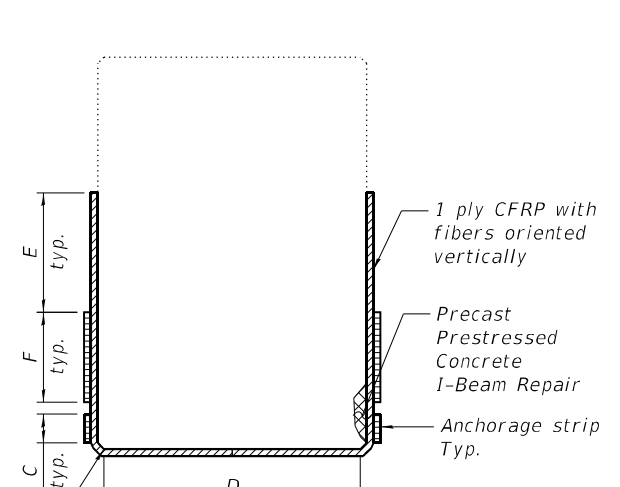
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TYPE 1
 1993 3'-0" & 4'-0" PPC I-Beams



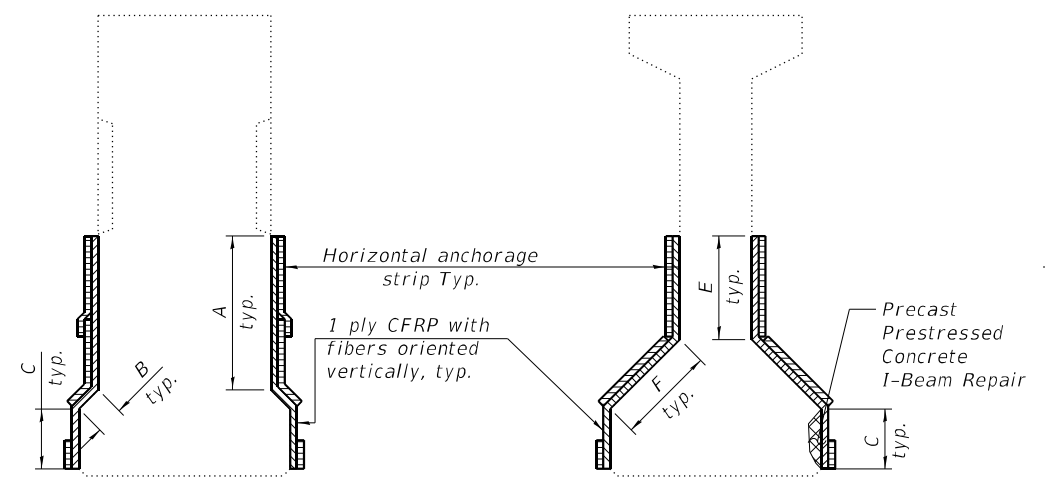
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TYPE 1
 1993 30" PPC I-Beams



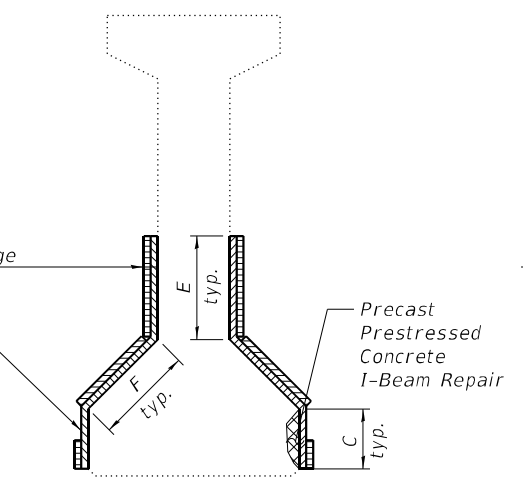
SECTION OUTSIDE BEARING
TYPE 1
 Original, and 1993 3'-0" & 4'-0" PPC I-Beams



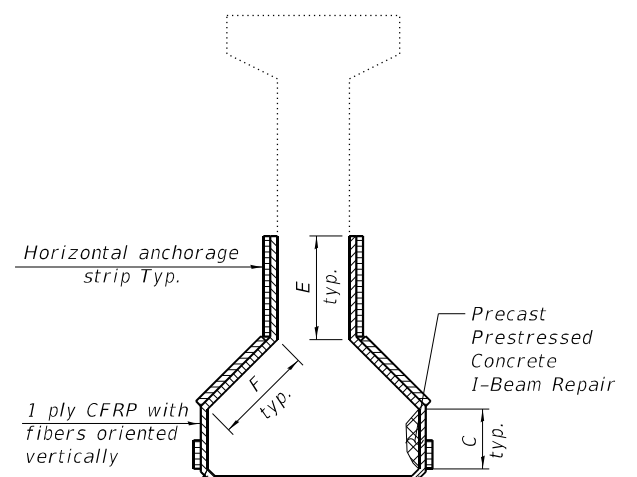
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TYPE 1
 1993 30" PPC I-Beams



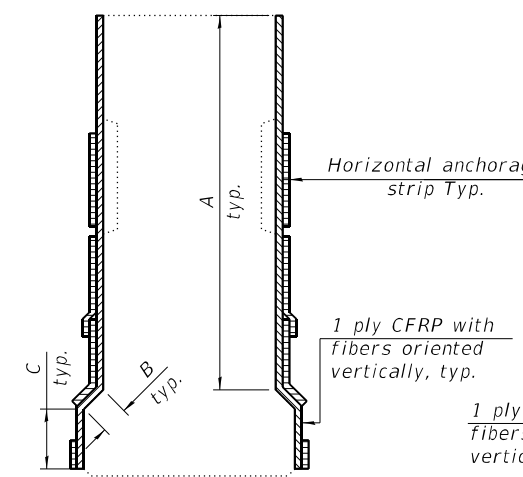
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TYPE 2
 Original PPC I-Beams



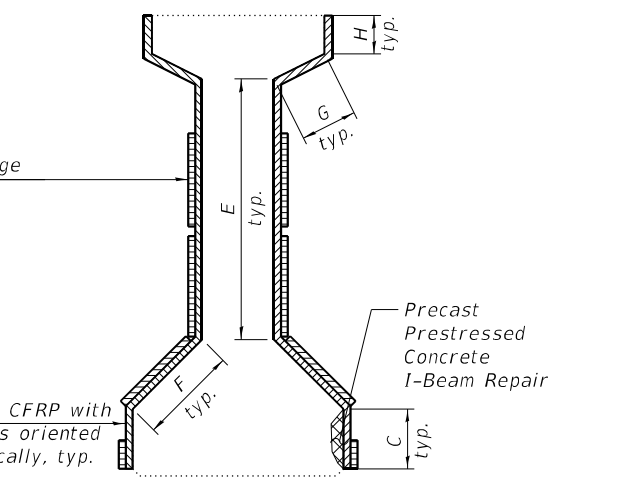
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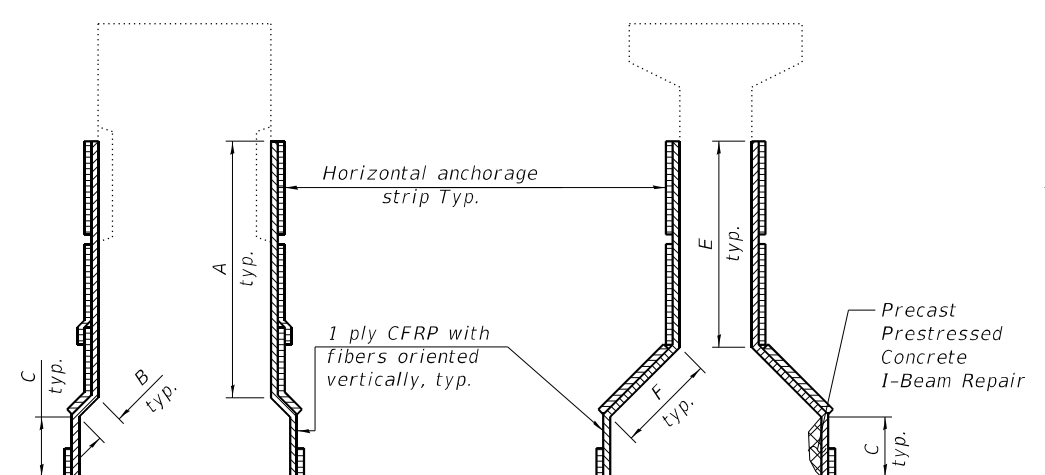
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TYPE 2



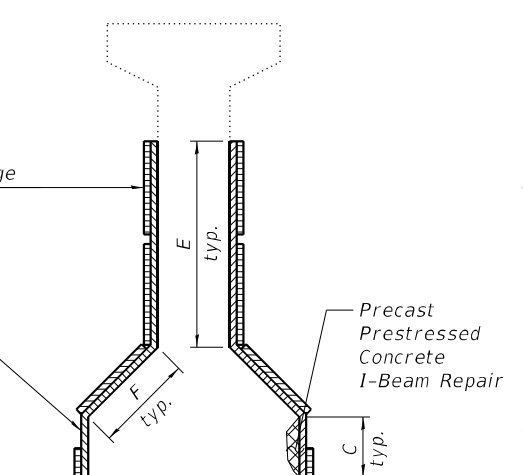
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TYPE 4
 Original PPC I-Beams



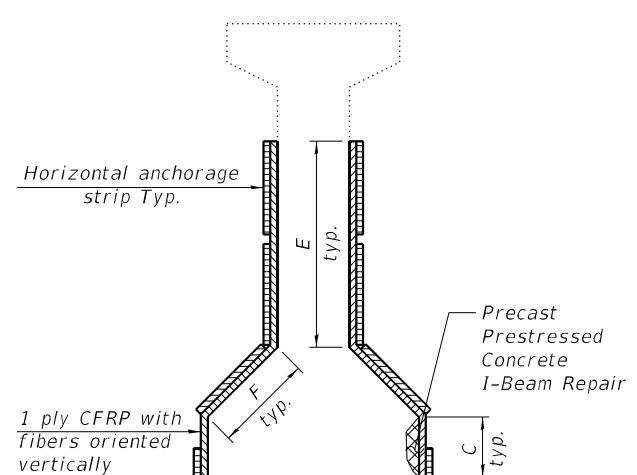
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TYPE 4
 1993 PPC I-Beams



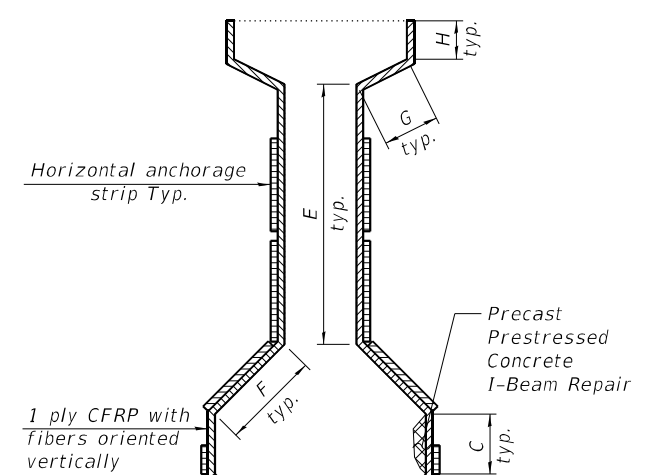
SECTION THRU BEARING
TYPE 3
 Original PPC I-Beams



SECTION THRU BEARING
TYPE 3
 1993 PPC I-Beams



SECTION OUTSIDE BEARING
TYPE 3



SECTION OUTSIDE BEARING
TYPE 4

* Round concrete edge to 1/2" R. Min. (typ.)

NOTE:
 1. For location of PPC I-Beam Repair (East Face, West Face, or Bottom Face), see Tables on Sheets S08-57 thru S08-62.

LEGEND

	Fiber Wrap Repair
	Precast Prestressed Concrete I-Beam Repair



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PLOT SCALE =	DRAWN - LAB	REVISED -
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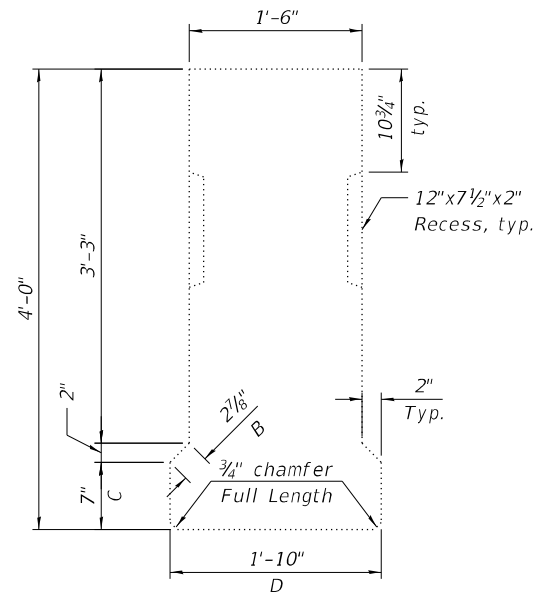
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC BEAMS REPAIRS (SHEET 2 OF 4)
STRUCTURE NO. 016-0133 (REV)

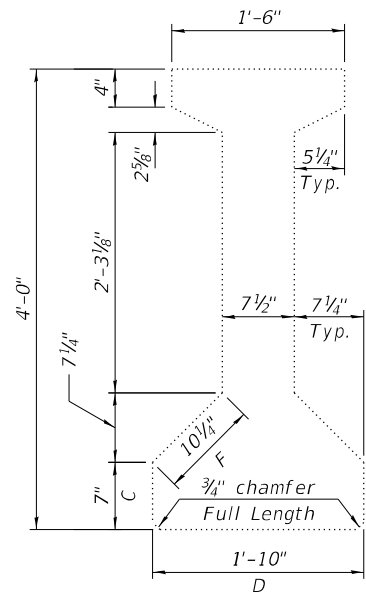
SHEET S08-54 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	671
CONTRACT NO. 62K74				
		ILLINOIS	FED. AID PROJECT	

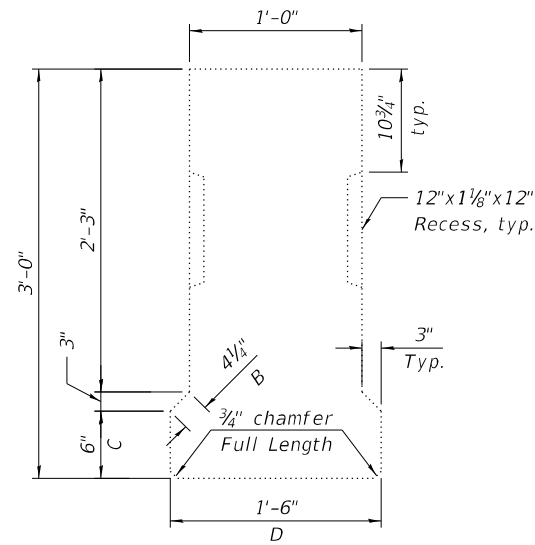
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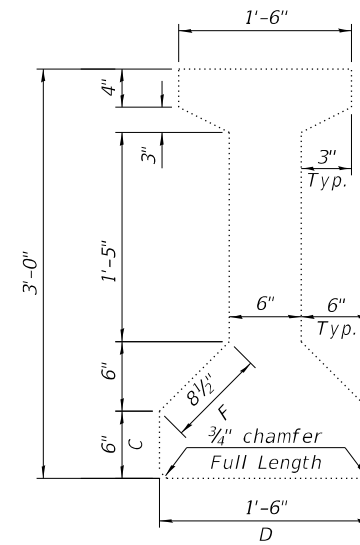
END CROSS SECTION
 Original 48" PPC I-Beams
 (Showing Dimensions)



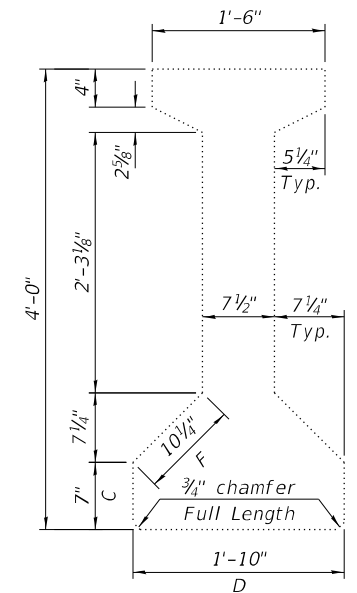
MIDSPAN CROSS SECTION
 Original 48" PPC I-Beams
 (Showing Dimensions)



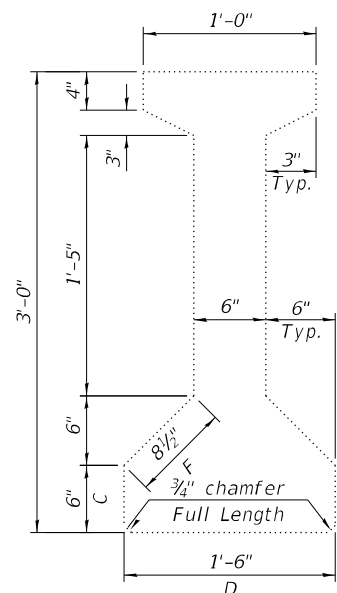
END CROSS SECTION
 Original 36" PPC I-Beams
 (Showing Dimensions)



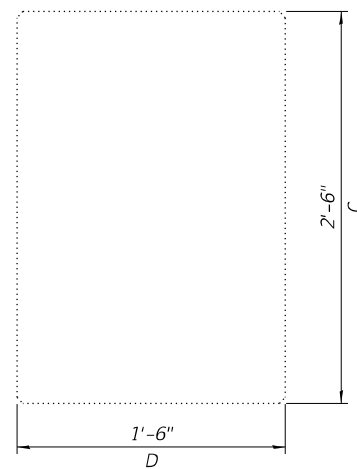
MIDSPAN CROSS SECTION
 Original 36" PPC I-Beams
 (Showing Dimensions)



CROSS SECTION
 1993 48" PPC I-Beams
 (Showing Dimensions)



CROSS SECTION
 1993 36" PPC I-Beams
 (Showing Dimensions)



CROSS SECTION
 1993 30" PPC I-Beams
 (Showing Dimensions)



USER NAME =	DESIGNED - LAB	REVISED -
PLOT SCALE =	CHECKED - MAI	REVISED -
PLOT DATE =	DRAWN - LAB	REVISED -
	DATE - 9/13/2022	REVISED -

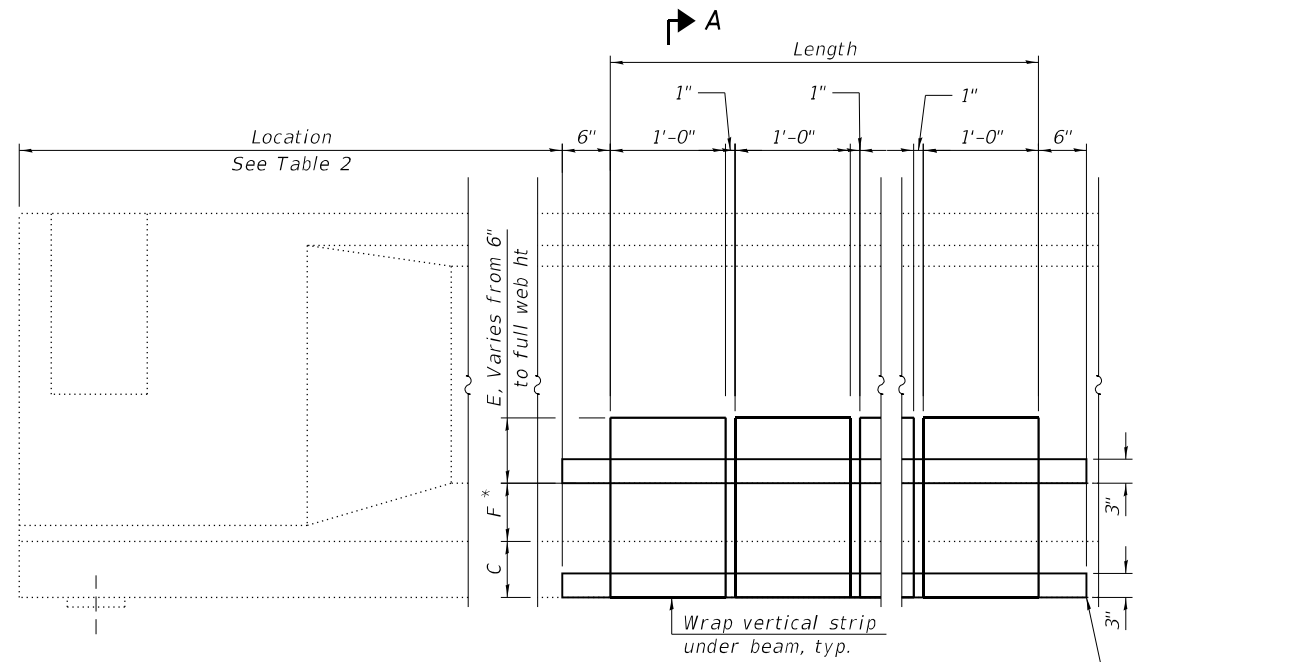
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PPC BEAMS REPAIRS (SHEET 3 OF 4)
 STRUCTURE NO. 016-0133 (REV)

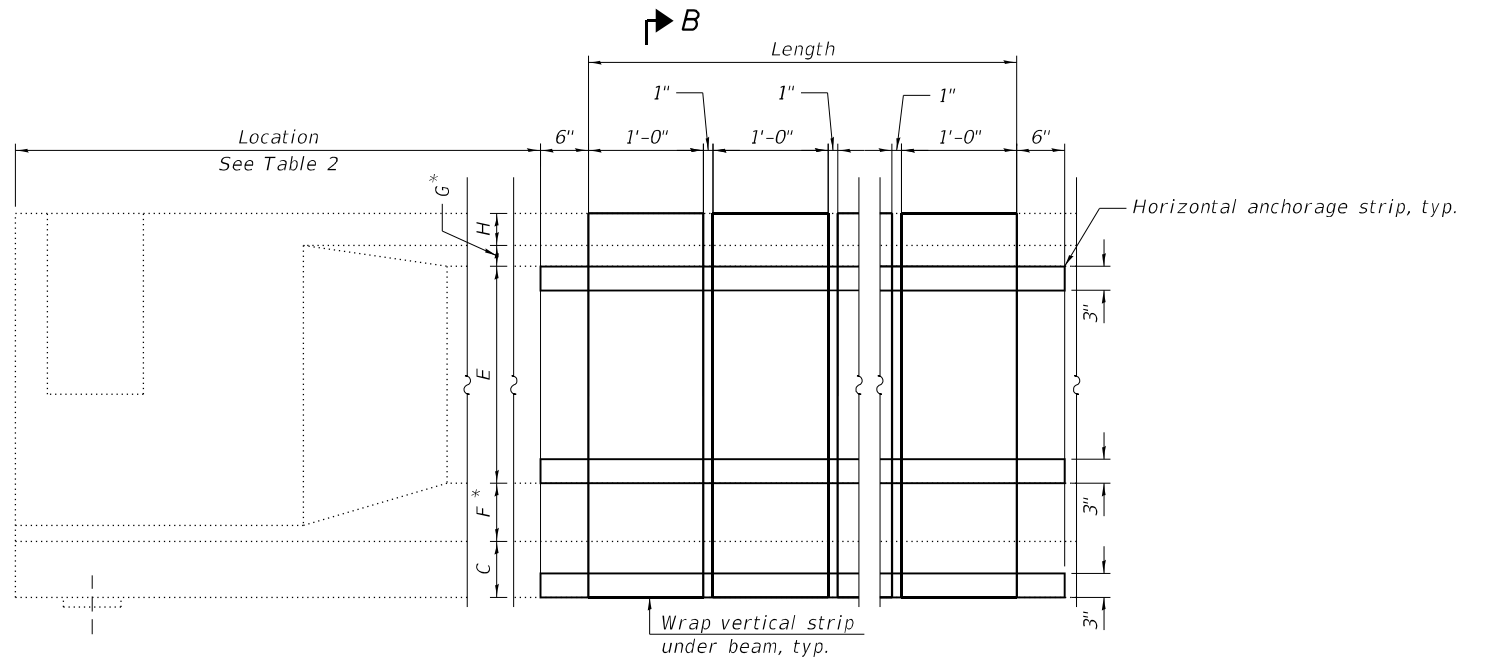
SHEET S08-55 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	672
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

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 9/13/2022 9:36:55 AM



MIDSPAN REPAIR
(See Table 2)



MIDSPAN REPAIR
(See Table 2)

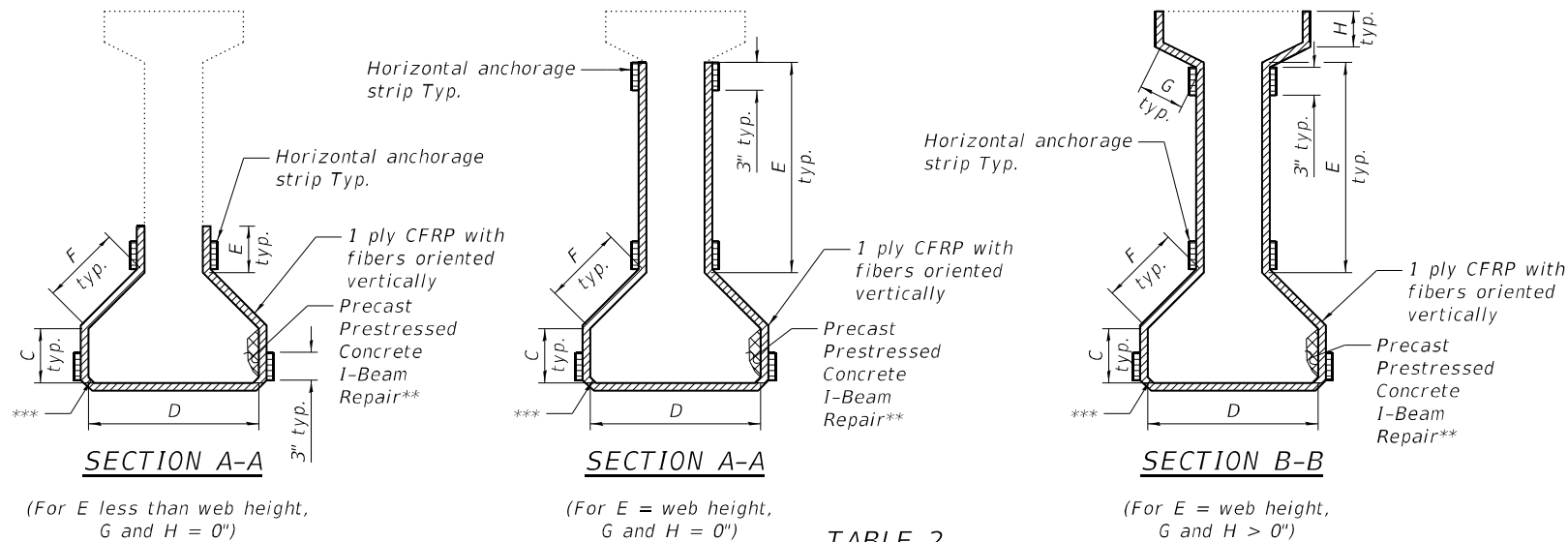


TABLE 2
Midspan Repairs

*Dimensions F and G are measured along the length of the flange as shown in Section A-A.
 **For location of PPC I-Beam Repair (East Face, West Face, or Bottom Face), see Table 2
 *** Round concrete edges to 1/2" R. Min (typ.)

LEGEND

Fiber Wrap Repair

Precast Prestressed Concrete I-Beam Repair

BEAM	LOCATION	LENGTH	C	D	E	F	G	H	FIBER WRAP (SQ FT)	ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR QUANTITIES				BEAM SECTION
											EAST FACE (SQ FT)	WEST FACE (SQ FT)	BOTTOM FACE (SQ FT)	TOTAL PPC I-BEAM REPAIR (SQ FT)	
R24.6	10'-0" from S. End	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7"	1'-10"	6"	10 1/4"	0"	0"	21.3	2.4	0.0	0.0	1.8	1.8	original 4'
R24.8	10'-0" from S. End	6 Strips x 1'-0" and 5 gaps at 1" = 6'-5"	7"	1'-10"	2'-3"	10 1/4"	0"	0"	66.4	7.4	0.0	5.0	0.0	5.0	original 4'

SPAN 1

Table for SPAN 1 containing repair dimensions for beams R5.1 through R5.7. Columns include BEAM, END, REPAIR TYPE, LENGTH, FIBER WRAP DIMENSIONS (A-H), FIBER WRAP (SQ FT), ACRYLIC COATING (SQ YD), PPC I-BEAM REPAIR DIMENSIONS (EAST FACE, WEST FACE, BOTTOM FACE, TOTAL), BEAM SECTION, and BEARING TYPE.

SPAN 2

Table for SPAN 2 containing repair dimensions for beams R2.1 through R2.7. Columns include BEAM, END, REPAIR TYPE, LENGTH, FIBER WRAP DIMENSIONS (A-H), FIBER WRAP (SQ FT), ACRYLIC COATING (SQ YD), PPC I-BEAM REPAIR DIMENSIONS (EAST FACE, WEST FACE, BOTTOM FACE, TOTAL), BEAM SECTION, and BEARING TYPE.

SPAN 3

Table for SPAN 3 containing repair dimensions for beams R3.1 through R3.7. Columns include BEAM, END, REPAIR TYPE, LENGTH, FIBER WRAP DIMENSIONS (A-H), FIBER WRAP (SQ FT), ACRYLIC COATING (SQ YD), PPC I-BEAM REPAIR DIMENSIONS (EAST FACE, WEST FACE, BOTTOM FACE, TOTAL), BEAM SECTION, and BEARING TYPE.

MODEL: Default
FILE NAME: P:\2004-824_PTB195-010-GRAEF\WO#4_I-90_SB & Rev. Var. Overlays - Ashland Rev\Sheet_Files\0160133-62K74-556-PPCBeamTables1.dgn



Table with 3 columns: USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE. Values include LAB, MA, MAI, LAB, 9/13/2022.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC BEAM REPAIR TABLES (SHEET 1 OF 6)
STRUCTURE NO. 016-0133 (REV)

Table with 5 columns: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values include 90/94, 2020-004-BR, COOK, 1492, 674.

SHEET S08-57 OF S08-78 SHEETS

ILLINOIS FED. AID PROJECT

SPAN 4

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R4.1	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.7	1.0	1.8	3.5	original 4'	See 1977 plans
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.3	1.2	3.7	5.1	original 4'	B2
R4.2	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.2	0.7	1.8	2.8	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
R4.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.7	0.2	1.2	2.2	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	1.8	1.8	original 4'	B2
R4.4	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.5	0.7	1.8	3.0	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
R4.5	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	1.0	0.2	1.8	3.0	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
R4.6	S. End	Type 2	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-5 7/8"	2 7/8"	7"	1'-10"	10 1/2"	10 1/4"	0"	0"	46.4	5.2	0.7	1.6	0.0	2.3	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
R4.7	S. End	Type 4	7 Strips x 1'-0" and 6 gaps at 1" = 7'-6"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	123.7	13.7	1.3	0.7	7.3	9.4	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.6	1.8	2.4	original 4'	B2

SPAN 5

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R5.1	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.6	0.0	0.9	1.5	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.9	0.9	0.5	2.2	original 4'	See 1977 plans
R5.2	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.3	0.6	0.9	1.8	original 4'	See 1977 plans
R5.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.3	0.6	1.5	2.4	original 4'	See 1977 plans
R5.4	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.3	0.3	0.0	0.6	original 4'	See 1977 plans
R5.5	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.6	0.0	0.6	original 4'	See 1977 plans
R5.6	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.3	0.3	0.9	1.5	original 4'	See 1977 plans
R5.7	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	2.8	2.8	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	See 1977 plans

SPAN 6

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R6.1	S. End	Type 2	6 Strips x 1'-0" and 5 gaps at 1" = 6'-5"	1'-5 7/8"	2 7/8"	7"	1'-10"	10 1/2"	10 1/4"	0"	0"	67.7	7.5	0.6	0.6	5.5	6.7	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.3	2.8	3.6	original 4'	B2
R6.2	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.3	1.8	2.7	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	1.4	1.4	original 4'	B2
R6.3	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.9	1.2	1.8	3.9	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	1.8	1.8	original 4'	B2
R6.4	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
R6.5	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	B2
R6.6	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	1.2	1.8	3.6	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	2.8	2.8	original 4'	B2
R6.7	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.3	0.6	1.8	2.7	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.6	0.6	0.0	1.2	original 4'	B2

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USER NAME =	DESIGNED - LAB, MAA	REVISED -
	CHECKED - MAI	REVISED -
PLOT SCALE =	DRAWN - LAB	REVISED -
PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PPC BEAM REPAIR TABLES (SHEET 2 OF 6)
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-58 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	675
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

SPAN 7

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R7.1	S. End	Type 4	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	90.0	10.0	0.0	0.0	3.7	3.7	original 4'	B2
	N. End	Type 4	6 Strips x 1'-0" and 5 gaps at 1" = 6'-5"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	106.9	11.9	0.6	0.9	5.5	7.0	original 4'	B2
R7.2	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
	N. End	Type 2	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-5 7/8"	2 7/8"	7"	1'-10"	10 1/2"	10 1/4"	0"	0"	57.0	6.3	1.8	1.2	3.7	6.6	original 4'	See 1977 plans
R7.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.6	0.6	0.9	2.1	original 4'	See 1977 plans
R7.4	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	1.8	1.8	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	1.8	1.8	4.2	original 4'	See 1977 plans
R7.5	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.6	0.6	0.9	2.1	original 4'	See 1977 plans
R7.6	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.6	0.3	0.9	1.8	original 4'	See 1977 plans
R7.7	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	1.9	1.8	3.7	original 4'	B2
	N. End	Type 3	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	2'-4 7/8"	2 7/8"	7"	1'-10"	1'-9 1/2"	10 1/4"	0"	0"	62.9	7.0	0.9	0.9	2.8	4.5	original 4'	See 1977 plans

SPAN 8

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R8.1	S. End	Type 4	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	56.3	6.3	0.6	0.3	0.9	1.8	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	1.8	1.8	original 4'	B2
R8.2	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	0.6	3.7	4.3	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	2.8	2.8	original 4'	B2
R8.3	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
R8.4	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.9	0.6	2.8	4.2	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
R8.5	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.9	1.8	3.3	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	1.8	1.8	original 4'	B2
R8.6	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.6	0.6	3.7	4.8	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
R8.7	S. End	Type 1	6 Strips x 1'-0" and 5 gaps at 1" = 6'-5"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	50.4	5.6	1.5	0.6	5.5	7.5	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.3	1.8	2.1	original 4'	B2

SPAN 10

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R10.1	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	1.2	0.0	0.0	1.2	original 4'	See 1977 plans
R10.2	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	0.3	3.7	4.0	original 4'	See 1977 plans
R10.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	0.9	3.7	4.5	original 4'	See 1977 plans
R10.4	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.2	0.7	1.8	2.8	original 4'	See 1977 plans
R10.5	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.2	0.2	1.8	2.3	original 4'	See 1977 plans
R10.6	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.4	1.8	2.2	original 4'	See 1977 plans
R10.7	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.9	1.8	2.8	5.4	original 4'	See 1977 plans

MODEL: Default
 FILE NAME: P:\2004-824-PTB\195-010-GRAEF\WO#4-1-90_SB & Rev. Var. Overlays - Ashland Rev\Sheet_Files\0160133-62K74-558-PPCBeamTables3.dgn
 9/13/2022 11:43:43 AM



USER NAME =	DESIGNED - LAB, MAA	REVISED -
CHECKED - MAI	REVISOR -	
PLOT SCALE =	DRAWN - LAB	REVISED -
PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PPC BEAM REPAIR TABLES (SHEET 3 OF 6)
 STRUCTURE NO. 016-0133 (REV)**

SHEET S08-59 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	676
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

SPAN 11

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R11.1	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.5	0.0	0.5	original 3'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.2	0.3	0.5	1.0	original 3'	B6
R11.2	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.5	0.0	0.5	original 3'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.2	0.0	0.0	0.2	original 3'	B6
R11.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.0	0.0	0.0	original 3'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.2	0.6	0.0	0.8	original 3'	B6
R11.4	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.0	0.0	0.0	original 3'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.3	0.2	0.0	0.4	original 3'	B6
R11.5	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.0	0.0	0.0	original 3'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.0	0.0	0.0	original 3'	B6
R11.6	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.6	0.0	0.6	original 3'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.0	0.0	0.0	original 3'	B6
R11.7	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.0	0.2	0.0	0.2	original 3'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	23.5	2.6	0.5	0.3	2.5	3.3	original 3'	B6
R11.8	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	17.7	2.0	0.2	0.2	0.8	1.2	original 3'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	7 3/8"	3 1/2"	6"	1'-6"	6"	4 7/8"	0"	0"	23.5	2.6	0.8	0.8	1.3	2.8	original 3'	B6

SPAN 13

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R13.1	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.3	1.5	1.8	3.6	original 4'	See 1977 plans
R13.2	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.3	0.6	0.0	0.9	original 4'	See 1977 plans
R13.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.9	0.6	2.8	4.2	original 4'	See 1977 plans
R13.4	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.3	0.6	0.0	0.9	original 4'	See 1977 plans
R13.5	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.9	1.8	3.3	original 4'	See 1977 plans
R13.6	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.6	2.8	3.3	original 4'	See 1977 plans

SPAN 14

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R14.1	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	1.2	1.8	3.6	original 4'	See 1977 plans
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.6	0.0	3.7	4.3	original 4'	B2
R14.2	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	1.2	1.2	2.4	4.8	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	2.8	2.8	original 4'	B2
R14.3	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.6	1.2	4.6	6.3	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	1.8	1.8	original 4'	B2
R14.4	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.6	0.6	4.6	5.8	original 4'	See 1977 plans
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	1.2	0.0	3.7	4.8	original 4'	B2
R14.5	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.0	1.8	2.4	original 4'	B2
R14.6	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.3	0.6	1.8	2.7	original 4'	See 1977 plans
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	1.2	0.9	3.7	5.7	original 4'	B2

SPAN 15

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R15.1	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.6	2.0	0.0	2.6	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.5	0.7	1.2	2.4	original 4'	See 1977 plans
R15.2	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	1.8	1.8	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	See 1977 plans
R15.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	1.2	1.2	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.7	0.8	1.8	3.3	original 4'	See 1977 plans
R15.4	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.9	0.9	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.7	0.7	1.8	3.2	original 4'	See 1977 plans
R15.5	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.6	0.6	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.6	0.7	0.9	2.2	original 4'	See 1977 plans
R15.6	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	1.8	1.8	3.6	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.7	0.6	0.9	2.2	original 4'	See 1977 plans

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SPAN 20

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R20.1	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	1.8	1.8	original 4'	B2
R20.2	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	2.8	2.8	original 4'	B2
R20.3	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	See 1977 plans
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	0.3	3.7	4.0	original 4'	B2
R20.4	S. End	Type 1	6 Strips x 1'-0" and 5 gaps at 1" = 6'-5"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	50.4	5.6	1.8	1.2	5.5	8.4	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.9	0.6	2.8	4.2	original 4'	B2
R20.5	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	0.6	3.7	4.3	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.6	0.0	0.0	0.6	original 4'	B2

SPAN 21

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R21.1	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.1	1.2	0.0	1.3	original 4'	See 1977 plans
R21.2	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.6	1.8	3.0	original 4'	See 1977 plans
R21.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.9	0.6	0.0	1.5	original 4'	See 1977 plans
R21.4	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	1.5	0.4	0.6	2.5	original 4'	See 1977 plans
R21.5	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.6	0.6	0.0	1.2	original 4'	See 1977 plans

SPAN 22

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R22.1	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	0.6	3.7	4.3	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.3	0.0	0.3	original 4'	B2
R22.2	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.4	0.3	3.7	4.3	original 4'	See 1977 plans
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	2.3	0.0	2.3	original 4'	B2
R22.3	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
R22.4	S. End	Type 1	11 Strips x 1'-0" and 10 gaps at 1" = 11'-10"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	90.9	10.1	2.3	2.9	15.6	20.8	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B2
R22.5	S. End	Type 1	11 Strips x 1'-0" and 10 gaps at 1" = 11'-10"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	90.9	10.1	4.7	0.3	14.7	19.6	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.0	2.8	2.8	original 4'	B2

SPAN 23

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R23.1	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	1.2	0.0	1.2	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	1.2	1.8	3.0	original 4'	B4
R23.2	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	1.2	0.0	1.2	original 4'	See 1977 plans
	N. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.0	0.3	3.7	4.0	original 4'	B4
R23.3	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.6	0.3	1.8	2.7	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.3	0.0	0.3	original 4'	B4
R23.4	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	1.2	0.0	3.7	4.8	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.0	0.6	2.8	3.3	original 4'	B4
R23.5	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.0	0.0	0.0	original 4'	B4

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PPC BEAM REPAIR TABLES (SHEET 5 OF 6)
STRUCTURE NO. 016-0133 (REV)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	678
CONTRACT NO. 62K74				
		ILLINOIS	FED. AID PROJECT	

SHEET S08-61 OF S08-78 SHEETS

SPAN 24

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R24.1	S. End	Type 4	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	56.3	6.3	0.5	0.5	1.4	2.3	original 4'	B2
	N. End	Type 4	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	56.3	6.3	0.2	0.2	1.4	1.9	original 4'	B2
R24.2	S. End	Type 1	6 Strips x 1'-0" and 5 gaps at 1" = 6'-5"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	50.4	5.6	0.5	0.3	5.5	6.3	original 4'	B2
	N. End	Type 2	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-5 7/8"	2 7/8"	7"	1'-10"	10 1/2"	10 1/4"	0"	0"	46.4	5.2	0.2	0.2	1.8	2.3	original 4'	See 1977 plans
R24.3	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	1.9	0.3	3.8	6.1	original 4'	B2
	N. End	Type 4	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	56.3	6.3	0.2	0.2	1.4	1.9	original 4'	B2
R24.4	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	1.8	1.8	1.8	3.8	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.2	0.2	1.4	1.9	original 4'	See 1977 plans
R24.5	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.7	0.7	1.8	3.3	original 4'	B2
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.2	0.2	0.9	1.4	original 4'	See 1977 plans
R24.6	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.3	0.6	1.8	2.7	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.2	0.7	1.8	2.8	original 4'	See 1977 plans
R24.7	S. End	Type 4	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	56.3	6.3	0.7	0.7	1.4	2.8	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.3	0.5	1.8	2.6	original 4'	See 1977 plans
R24.8	S. End	Type 4	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	2'-10 3/8"	2 7/8"	7"	1'-10"	2'-3"	10 1/4"	5 7/8"	4"	56.3	6.3	1.2	0.4	1.4	3.0	original 4'	B2
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.7	0.7	2.3	3.8	original 4'	See 1977 plans

SPAN 25

BEAM	END	REPAIR TYPE	LENGTH	FIBER WRAP DIMENSIONS								ACRYLIC COATING (SQ YD)	PPC I-BEAM REPAIR DIMENSIONS				BEAM SECTION	BEARING TYPE	
				A	B	C	D	E	F	G	H		FIBER WRAP (SQ FT)	EAST FACE PCM (SQ FT)	WEST FACE PCM (SQ FT)	BOTTOM FACE PCM (SQ FT)			TOTAL PPC I-BEAM REPAIR (SQ FT)
R25.1	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.2	0.2	1.2	1.7	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.0	0.3	0.0	0.3	original 4'	B2
R25.2	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.7	0.2	1.8	2.8	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.3	0.3	0.0	0.6	original 4'	B2
R25.3	S. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	0.2	0.2	1.8	2.3	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	1.8	0.3	0.0	2.0	original 4'	B2
R25.4	S. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.2	0.2	0.6	1.1	original 4'	See 1977 plans
	N. End	Type 1	4 Strips x 1'-0" and 3 gaps at 1" = 4'-3"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	34.2	3.8	1.5	0.3	0.0	1.8	original 4'	B2
R25.5	S. End	Type 1	5 Strips x 1'-0" and 4 gaps at 1" = 5'-4"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	42.3	4.7	0.2	0.2	3.7	4.2	original 4'	See 1977 plans
	N. End	Type 1	3 Strips x 1'-0" and 2 gaps at 1" = 3'-2"	1'-1 3/8"	2 7/8"	7"	1'-10"	6"	10 1/4"	0"	0"	26.1	2.9	0.3	0.5	0.0	0.8	original 4'	B2

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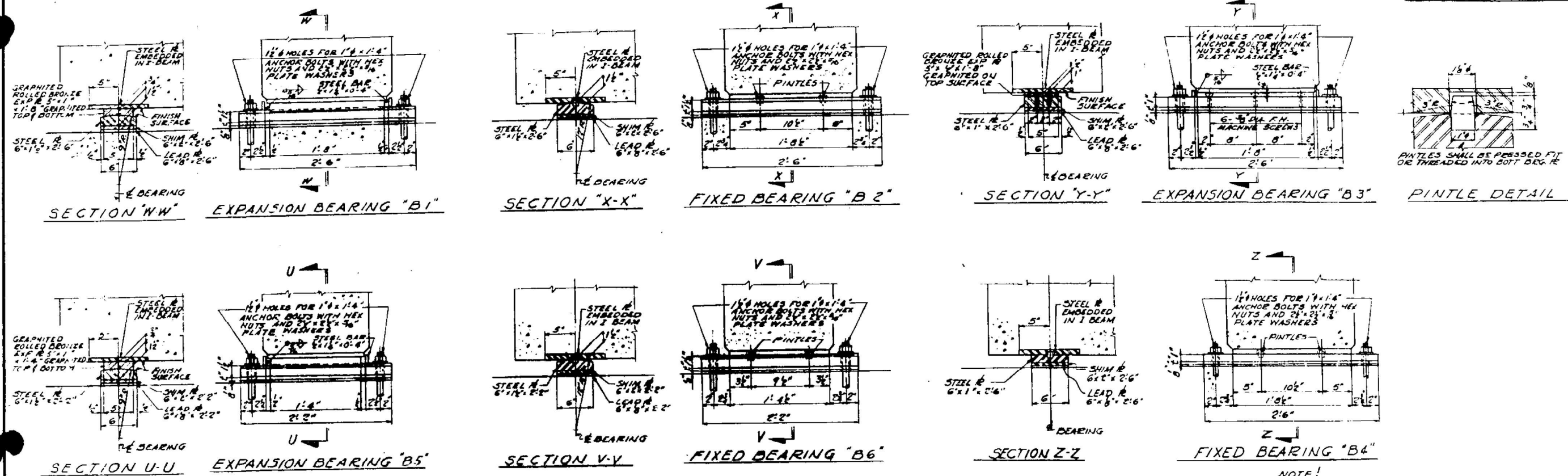
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PPC BEAM REPAIR TABLES (SHEET 6 OF 6)
 STRUCTURE NO. 016-0133 (REV)**

SHEET S08-62 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	679
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

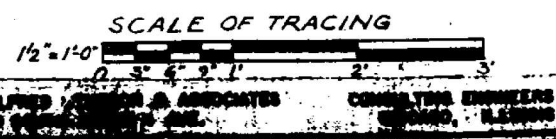


NOTE!
SHIMPLATES TO BE USED ONLY WHEN REQUIRED.
SEE FRAMING PLANS FOR LOCATION AND THICKNESS OF SHIMPLATES.

SUPPLEMENTARY I-BEAM DATA

MARK	BEG TYPE NO. 30	END OVERHANG		END BLOCK LGTH		LOCATION OF ADJ. BOLTS		REMARKS
		NORTH	SOUTH	NORTH	SOUTH	NORTH	SOUTH	
CB2A	B1 B2							
CB2B, CB2C	B2 B1							
CB3A	B1 B2							
CB3B	B2 B1							
CB5A, CB5B	B1 B2							
CB5C	B1 B2							
CB5D, CB5E	B2 B1							
CB5F	B2 B1							
CB7		13 1/2"	10"	3'-4 1/2"	3'-7"	3"	3"	
CB8						3"	3"	
CB9						3"	3"	
CB10						3"	3"	
CB11						3"	3"	
CB12						3"	3"	
CB13						3"	3"	
CB14						3"	3"	
CB15						3"	3"	
CB31		15"	10"	3'-4 1/2"	3'-0 1/2"			
CB32		15"	10"	3'-0 1/2"	3'-4 1/2"			
CB53		10"	13 1/2"	3'-2 1/2"	3'-4 1/2"			
CB54						3"	3"	
CB56F, CB56G						3"	3"	
CB56H						3"	3"	
CB60		10"	2'-2 1/2"	3'-4 1/2"	3'-4 1/2"			
CB61		2'-0 5/8"	10"	3'-4 1/2"	3'-4 1/2"			
CB70D, CB70E						3"	3"	
CB81		15"	10"	3'-4 1/2"	2'-7 1/2"			
CB82		5"	10"	3'-6"	3'-7"			
CB100		15"	13"	3'-8"	3'-4 1/2"			
CB127		15"	13"	3'-8"	3'-4 1/2"			
CB128		10"	15"	3'-4 1/2"	3'-8"			
CB125		10"	15"	3'-0 1/2"	3'-7"			

NOTE!
ALL DIMENSIONS OR DETAILS NOT SHOWN ARE SAME AS SHOWN IN CONCRETE I-BEAM SCHEDULE FOR BEAM OF SAME NUMBER



CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
GRADE SEPARATION
WABANSIA AVE. TO CORTLAND ST.
SECTION 0508.3-1H
BEARING DETAILS
SHEET NO. 36 OF 136 SHEETS DATE:

FOR INFORMATION ONLY

NOTE:
1. For notes, see Sheet S08-46.

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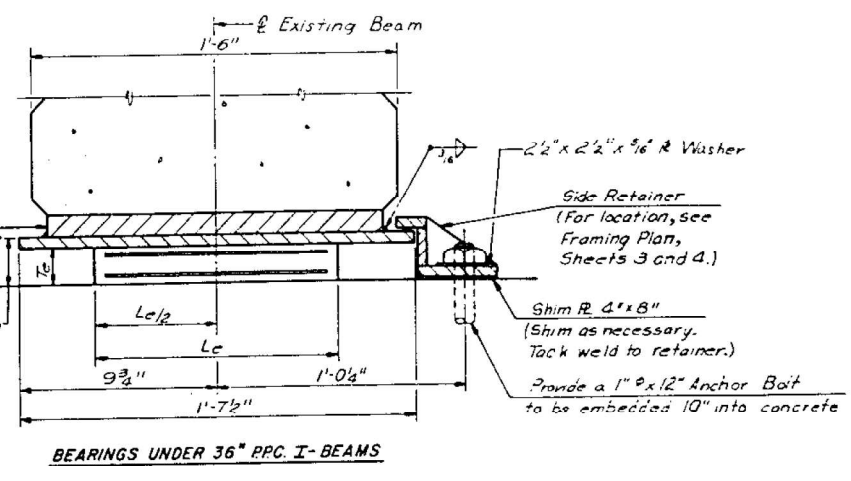
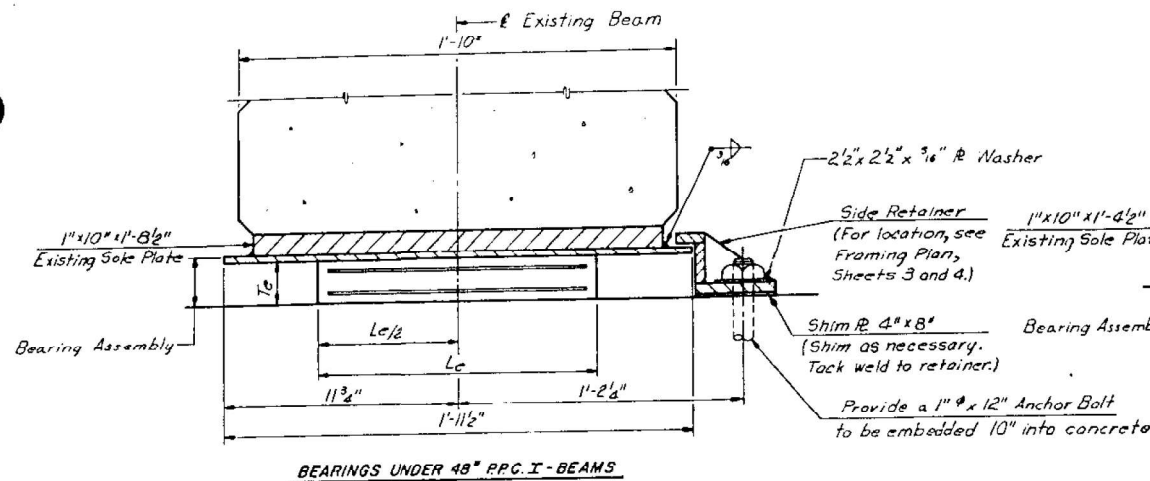
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLEANING AND PAINTING BEARINGS (SHEET 1 OF 3)
STRUCTURE NO. 016-0133 (REV)

SHEET S08-63 OF S08-78 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9094	2020-004-BR	COOK	1492	680
CONTRACT NO. 62K74			ILLINOIS FED. AID PROJECT	

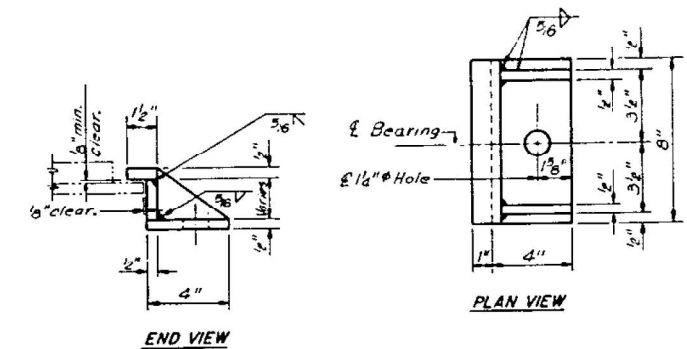
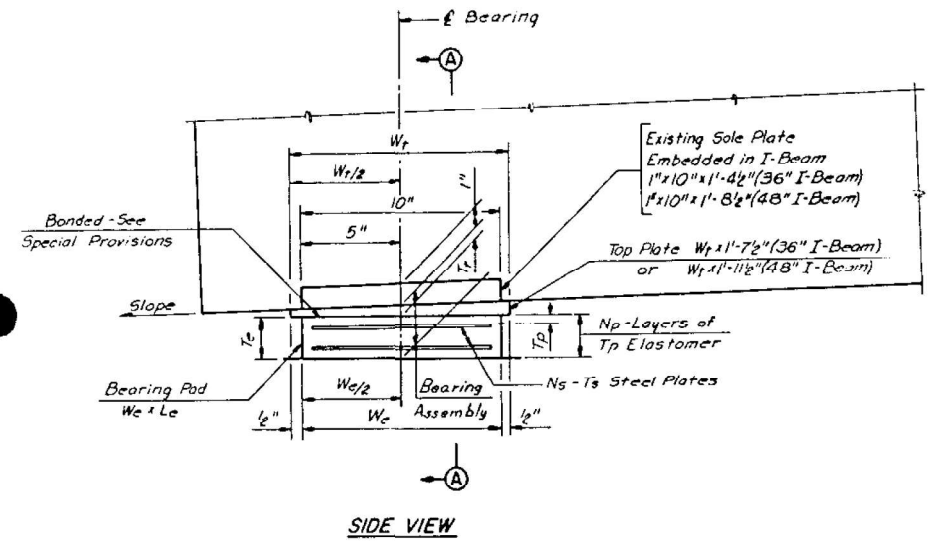


**TABLE OF DIMENSIONS-TYPE I
ELASTOMERIC EXPANSION BEARINGS**

We	Le	Series	Tp	Np	Ts	Ns	Te
7"	12"	a	1/2"	3	3/32"	2	1 1/2"
8"	15"	a	1/2"	4	1/8"	3	1 1/2"
9"	12"	a	1/2"	3	3/32"	2	1 1/2"
9"	12"	b	1/2"	4	3/32"	3	1 1/2"
10"	14"	a	1/2"	3	1/8"	2	1 1/2"
10"	14"	b	1/2"	4	1/8"	3	1 1/2"
10"	14"	c	1/2"	4	1/8"	3	2 1/2"
10"	14"	d	1/2"	5	1/8"	4	2 1/2"
10"	14"	e	1/2"	6	1/8"	5	2 1/2"

Tp denotes thickness of each elastomeric layer.
 Np denotes number of elastomeric layers.
 Ts denotes thickness of each steel plate.
 Ns denotes number of steel plates.

Notes:
 Work this sheet with sheet no. 6.
 All existing anchor bolts shall be cut at concrete surface.
 Top plate shall be placed such that the bottom of the plate is level.
 The replacement bearings shown on this sheet are Type I Elastomeric Bearings.



Note:
 Cost of side retainers, complete and in place, including anchor bolts, nuts and washers shall be incidental to furnishing and installing Elastomeric Bearings, Type I.

HOWARD, NEEDLES, TAMMEN, & BERGENDOFF
 CONSULTING ENGINEERS CHICAGO
 MADE P.O.A. DATE 1-14-77 CHECKED RAL DATE 3-15-77

HNTB

NO.	DATE	REVISION	BY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**ELASTOMERIC EXPANSION
 REPLACEMENT BEARINGS
 UNDER CONCRETE I-BEAMS**

JOHN F. KENNEDY EXPRESSWAY
 W. WATANSIA AVENUE TO
 W. CORTLAND STREET

FOR INFORMATION ONLY

NOTE:
 1. For notes, see Sheet S08-46.

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CLEANING AND PAINTING BEARINGS (SHEET 2 OF 3)
 STRUCTURE NO. 016-0133 (REV)

SHEET S08-64 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	681
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

PIER	BEAM	W ₀	L ₀	SERIES	TOP PLATE T ₁ W ₁ SLOPE	NO. REQ'D	REMARKS
R1.1-R1.7							
1(S)	1-32,34,36,37	10"	14"	b	1" 11" 2.5%	35	②
	33,35	10"	14"	d	1" 11" 2.5%	2	
R2.1-R2.7							
1(N)	1-35	10"	14"	c	1" 11" 3.6%	35	①
R3.1-R3.7							
3(S)	1-28,31-33	10"	14"	b	1" 11" 2.1%	31	②
	29	10"	14"	d	1" 11" 2.1%	1	
	30	10"	14"	d	1" 11" 2.1%	1	
R4.1-R4.7							
3(N)	1-28,30-32	10"	14"	c	1" 11" 2.5%	31	①
	29	10"	14"	d	1" 11" 2.5%	1	
R5.1-R5.7							
5(S)	1-3,6-32	10"	14"	b	1" 11" 1.5%	30	②
	4	10"	14"	c	1" 11" 1.5%	1	①
	5	10"	14"	d	1" 11" 1.5%	1	
R6.1-R6.3, R6.5-R6.7							
5(N)	1,5,8-15	10"	14"	b	1" 11" 2.5%	23	②
	17-24,27-31	10"	14"	c	1" 11" 2.5%	5	①
	3,6,7	10"	14"	c	1" 11" 2.5%	1	①
	2	10"	14"	c	1" 11" 2.5%	1	①
	4	10"	14"	d	1" 11" 2.5%	1	①
R6.4							
7(S)	1-31	10"	14"	b	1" 11" 0.0%	31	②
	R8.1-R8.3, R8.5-R8.7						
7(N)	1-5,8-15	10"	14"	b	1" 11" 1.3%	26	②
	17-24,27-31	10"	14"	c	1" 11" 1.3%	1	①
	16	10"	14"	c	1" 11" 1.3%	4	①
9(S)	17-21,23,24	9"	12"	a	1" 10" 0.0%	7	
	22	9"	12"	a	1" 10" 0.0%	1	
R10.1-R10.3							
10(S)	1	9"	12"	a	1" 10" 0.0%	1	①
	2	9"	12"	a	1" 10" 0.0%	1	
	3-12,19-25	10"	14"	c	1" 11" 0.0%	17	
	13-16	10"	14"	c	1" 11" 0.0%	4	①
R10.4-R10.7							
	*17,18	10"	14"	a	1" 11" 0.0%	2	①

PIER	BEAM	W ₀	L ₀	SERIES	TOP PLATE T ₁ W ₁ SLOPE	NO. REQ'D	REMARKS
R11.1-R11.8							
10(N)	1-36	9"	12"	b	1" 10" 0.0%	36	
R12.1-R12.5							
12(S)	1-7	10"	14"	c	1" 11" 0.0%	7	
	8,9	9"	12"	a	1" 10" 0.0%	2	①
R13.1							
13(S)	1,4,6,9	9"	12"	a	1" 10" 0.0%	4	
	2,8	9"	12"	a	1" 10" 0.0%	2	
	3,7,21-23	9"	12"	a	1" 10" 0.0%	5	
	19,20	9"	12"	a	1" 10" 0.0%	2	①
	10	10"	14"	c	1" 11" 0.0%	1	①
R13.2							
R13.3-R13.6							
13(N)	1-21	10"	14"	b	1" 11" 0.0%	21	②
	R14.1-R14.6						
R15.1-R15.6							
15(S)	1-4,6-16	10"	14"	b	1" 11" 1.6%	15	②
	5	10"	14"	c	1" 11" 1.6%	1	
15(N)	1-10	10"	14"	b	1" 11" 0.8%	10	②
	R16.1-R16.6						
16(N)	1,2,4-6	10"	14"	b	1" 11" 1.2%	6	②
	3	10"	14"	c	1" 11" 1.1%	1	①
R18.1-R18.7							
18(S)	1-6	10"	14"	b	1" 11" 2.8%	6	
	E.Fascia	8"	15"	a	1" 9" 2.5%	1	
R19.1-R19.7							
19(S)	4,5,8,9,13	10"	14"	b	1" 11" 3.2%	5	②
	10,11,14	10"	14"	c	1" 11" 3.2%	8	
	12	10"	14"	c	1" 11" 3.2%	1	
R20.1, R20.5							
19(N)	3,6-17	10"	14"	b	1" 11" 2.7%	13	
	1,5	10"	14"	b	1" 11" 2.7%	2	
	2,4	10"	14"	b	1" 11" 2.7%	2	
R20.2, R20.4							
R20.3							
R21.1-R21.5							
21(S)	2,3-20,22	10"	14"	b	1" 11" 3.5%	20	
	1	10"	14"	b	1" 11" 3.6%	1	
	21	10"	14"	b	1" 11" 3.6%	1	
R22.1-R22.5							
21(N)	1-3,6-8,11-28	10"	14"	b	1" 11" 2.7%	24	
	4,5	10"	14"	b	1" 11" 2.7%	2	
	9,10	10"	14"	b	1" 11" 2.7%	2	②
R23.1-R23.5							
22(N)	11-16	7"	12"	a	1" 8" 3.5%	6	
	17-20	9"	12"	b	1" 10" 2.9%	4	
	21-23	10"	14"	b	1" 11" 2.5%	3	
	24-28	10"	14"	b	1" 11" 2.6%	5	②
R24.1							
R24.2							
R24.3							
24(S)	1,5	10"	14"	c	1" 11" 3.7%	2	①
	2	10"	14"	c	1" 11" 3.0%	1	①
	3,9,13,17	10"	14"	c	1" 11" 1.8%	4	①
	4,10,16	10"	14"	d	1" 11" 1.8%	3	
	6	10"	14"	d	1" 11" 1.8%	1	
	7,8,11,12,14,15,18	10"	14"	b	1" 11" 1.5%	7	②
	19	10"	14"	c	1" 11" 3.5%	1	①
	20-23,26,27,29,30,33,35,38,39,41-43	10"	14"	c	1" 11" 3.4%	15	②③
	24,25	10"	14"	c	1" 11" 3.6%	2	②
	28	10"	14"	c	1" 11" 3.7%	1	②
	31	10"	14"	e	1" 11" 3.6%	1	
	32,34,36,44	10"	14"	c	1" 11" 3.7%	4	②
37	10"	14"	e	1" 11" 3.6%	1		
40	10"	14"	e	1" 11" 3.6%	1		
R24.4-R24.7							
24(N)	1,7	9"	12"	b	1" 11" 2.4%	7	
	8-11	10"	14"	b	1" 11" 2.3%	4	
	12-16	10"	14"	b	1" 11" 2.2%	5	
	17,22,24,28	10"	14"	b	1" 11" 2.0%	9	
	23	10"	14"	b	1" 11" 2.0%	1	
	27	10"	14"	b	1" 11" 1.6%	1	
	28	10"	14"	b	1" 11" 2.5%	1	
	29	10"	14"	b	1" 11" 2.6%	1	
	30	10"	14"	b	1" 11" 2.7%	1	
	31-32	10"	14"	b	1" 11" 3.0%	2	

PIER	BEAM	W ₀	L ₀	SERIES	TOP PLATE T ₁ W ₁ SLOPE	NO. REQ'D	REMARKS
R25.1-R25.3							
R25.4-R25.5							

Remarks:

- The air temperature at time of setting the elastomeric bearings shall be between 110°F and -10°F.
- The air temperature at time of setting the elastomeric bearings shall be between 90°F and 10°F.
- Grind the existing concrete bearing seat by 1".

Notes:

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to installation and ordering of materials.

Remove the existing bearing device including base plate, shim plates and lead plate from the beams shown in the charts at the locations shown in the charts prior to installation of new elastomeric bearings unless noted otherwise.

Work this sheet with sheet No. 5. All of the beams shown in the charts are 48" PPC I Beams except those which are supported by Pier 10(N). These are 36" PPC I-Beams.

All of the beams shown in the charts require a Type I Elastomeric Bearing.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE FOR REPLACEMENT BEARINGS UNDER CONCRETE I-BEAMS

JOHN F. KENNEDY EXPRESSWAY
W. WABANSIA AVENUE TO
W. CORTLAND STREET

NO.	DATE	REVISION	BY

FOR INFORMATION ONLY

NOTE:
1. For notes, see Sheet S08-46.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLEANING AND PAINTING BEARINGS (SHEET 3 OF 3)
STRUCTURE NO. 016-0133 (REV)

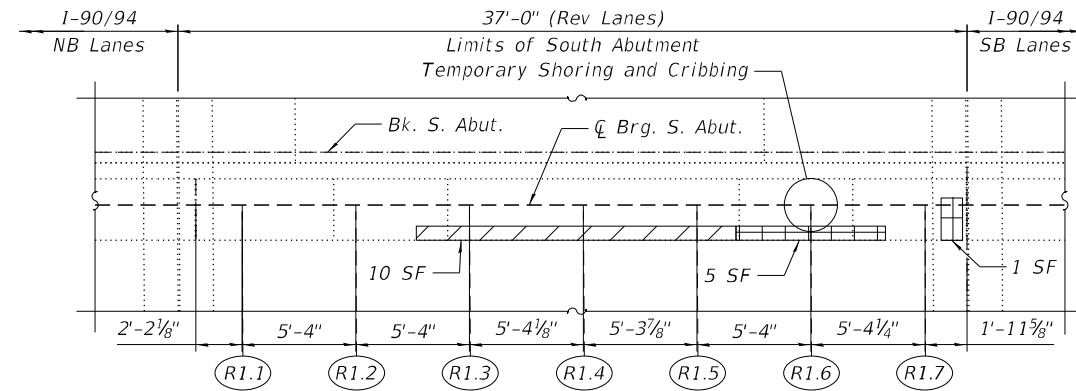
SHEET S08-65 OF S08-78 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	682
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

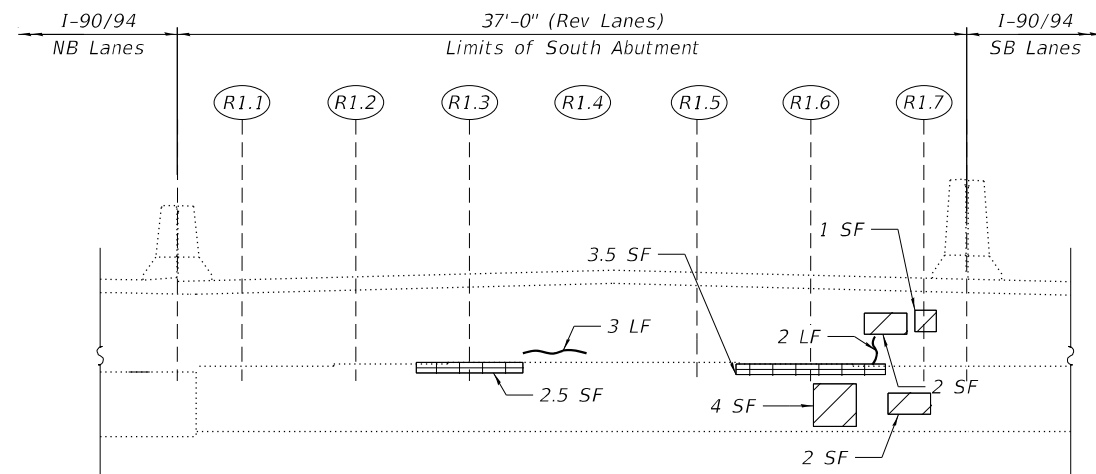
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	113
Epoxy Crack Injection	Foot	5
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	19
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	12
Temporary Shoring And Cribbing	Each	1

SUMMARY OF REACTIONS		
		South Abutment, Span 1
R DL	(k)	61.4
R LL	(k)	33.0
R IM	(k)	8.3
R Total	(k)	102.7



SOUTH ABUTMENT PLAN



SOUTH ABUTMENT ELEVATION

(Looking South)

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Temporary shoring and cribbing shall be installed prior to the start of the structural repair of concrete and shall be removed after completing the structural repair of concrete.
- Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item "Temporary Shoring and Cribbing".
- Concrete Sealer shall be applied to the abutment seat and the bottom 2 feet of the abutment backwall.

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Structural Repair of Concrete (Depth Greater than 5 inches)
- Epoxy Crack Injection (Width > 0.06")
- SF Square Foot
- LF Linear Foot

MODEL: Default
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

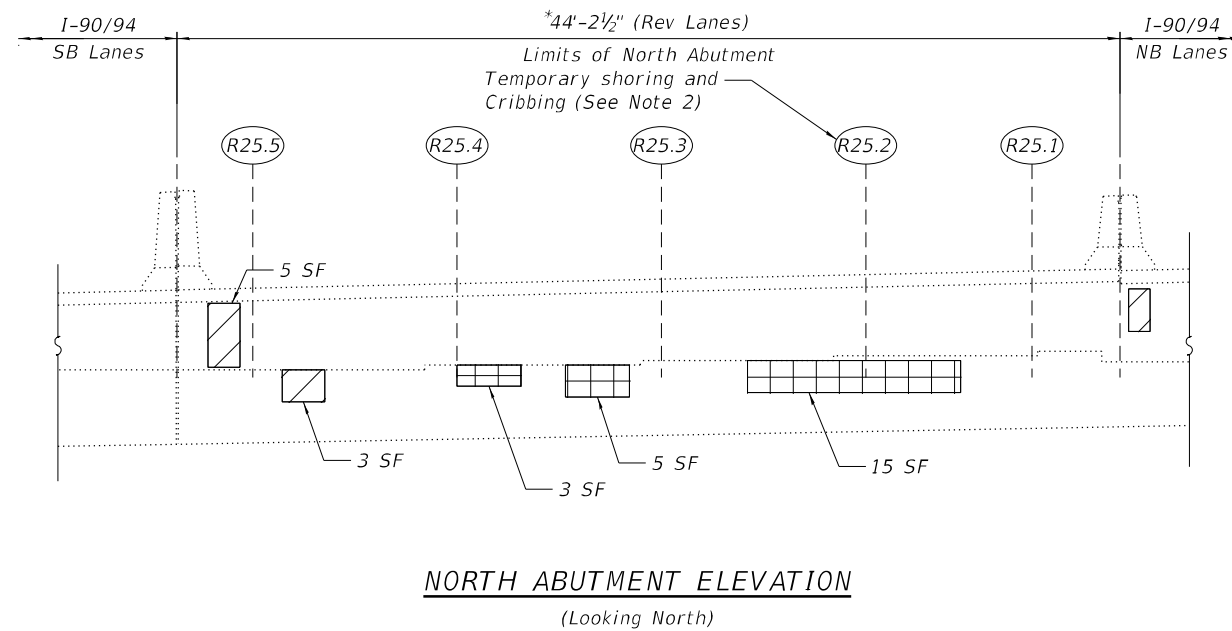
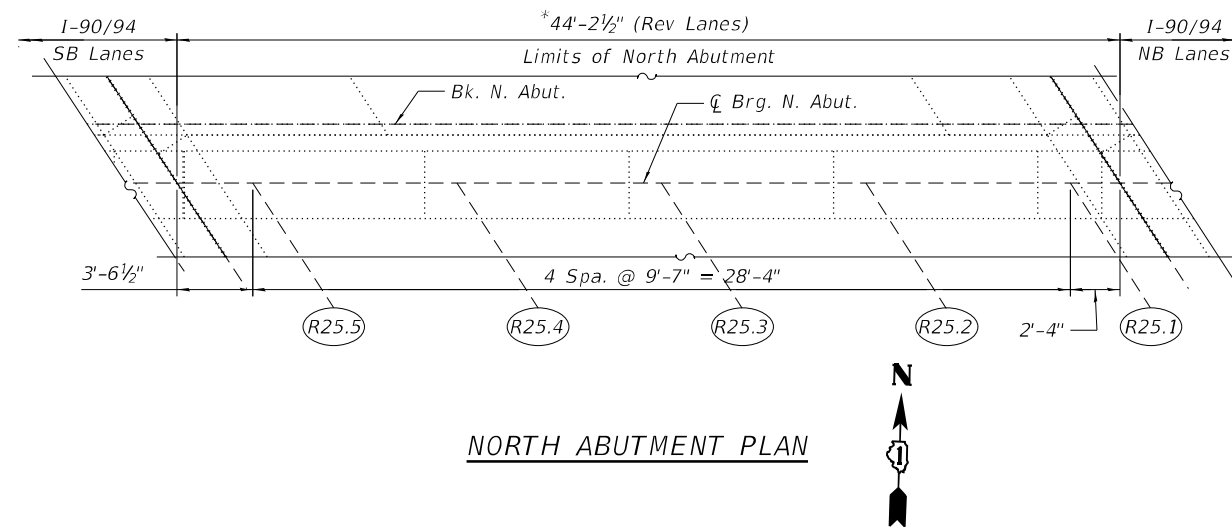
**SOUTH ABUTMENT REPAIRS
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-66 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	683
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	229
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	8
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	23
Temporary Shoring And Cribbing	Each	1




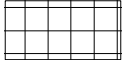

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Temporary shoring and cribbing shall be installed prior to the start of the structural repair of concrete and shall be removed after completing the structural repair of concrete.
- For Slope Wall repairs, see Sheet S08-78.
- Concrete Sealer shall be applied to the abutment seat and the bottom 2 feet of the abutment backwall.

SUMMARY OF REACTIONS		
North Abut.		
R DL	(k)	52.9
R LL	(k)	92.8
R IM	(k)	57.5
R Total	(k)	203.2

*Measured along C Brg. Abut.

LEGEND

-  Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
-  Structural Repair of Concrete (Depth Equal Greater than 5 inches)
-  Epoxy Crack Injection (Width > 0.06")
- SF Square Foot
- LF Linear Foot

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT REPAIRS
 STRUCTURE NO. 016-0133 (REV)**

SHEET S08-67 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	684
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

NOTES:

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
2. Concrete Sealer is to be applied to the top of the pier caps.

PIER 1 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	149
Epoxy Crack Injection	Foot	27
Bridge Drainage System Repair	Foot	15
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	50



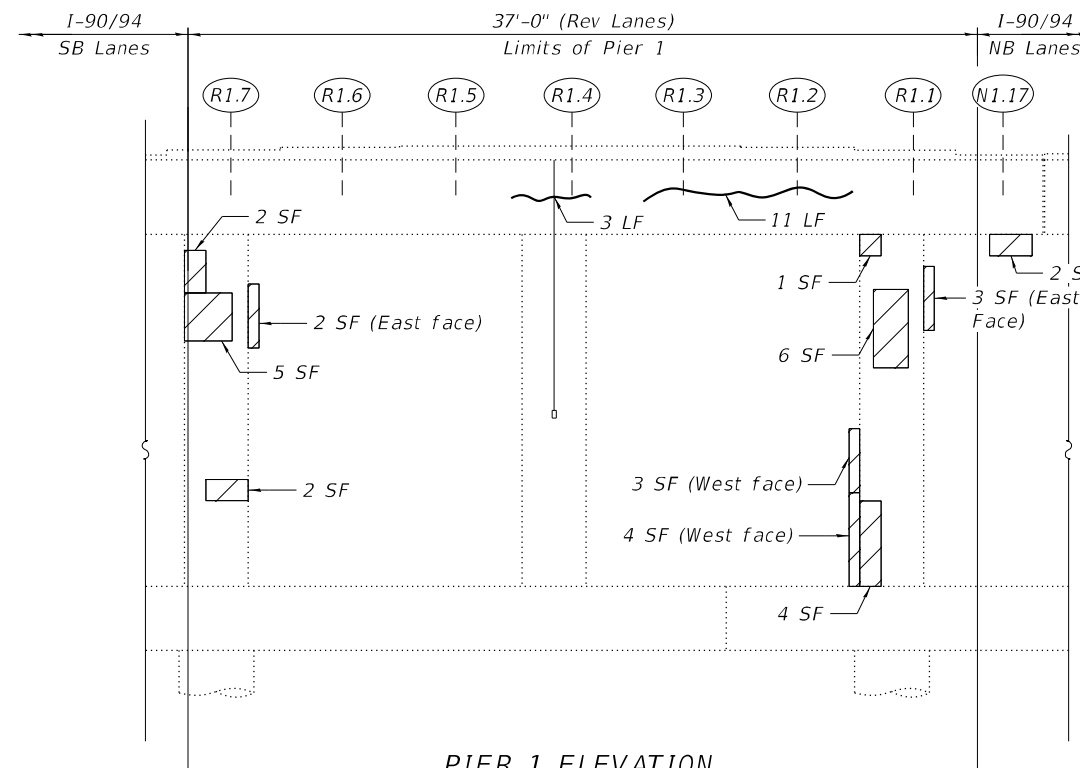
PIER 1
(Looking Northwest)

PIER 2 BILL OF MATERIAL

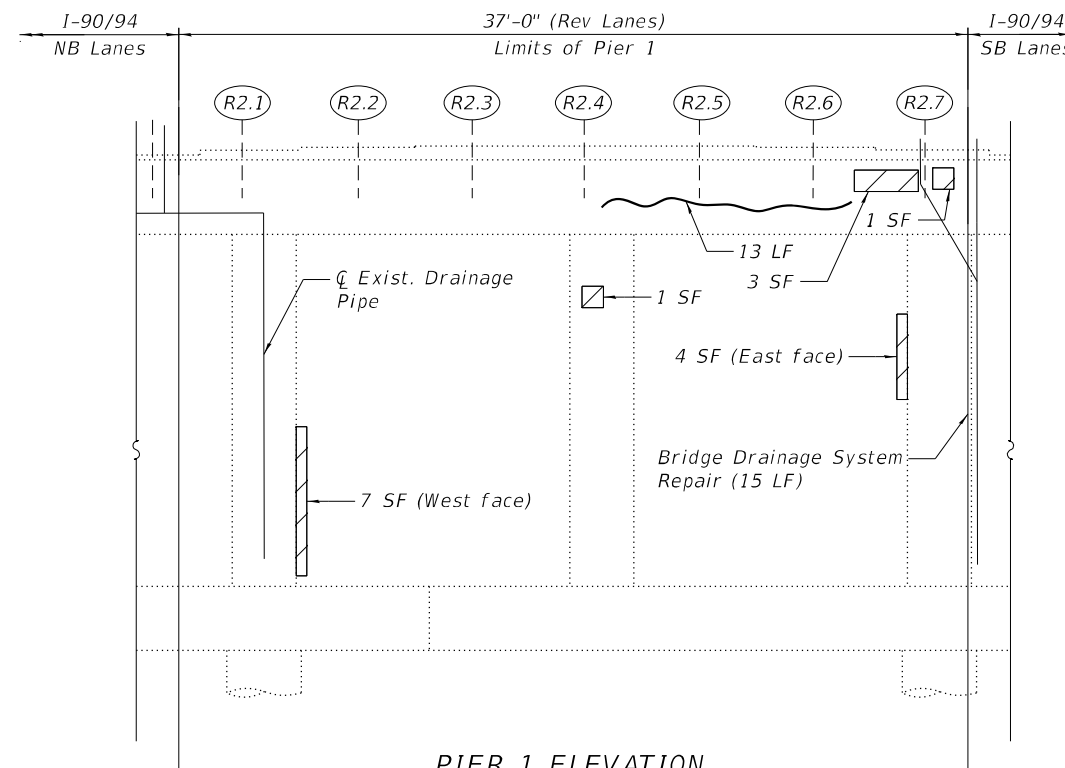
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Concrete Sealer	Sq Ft	112
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	3

LEGEND

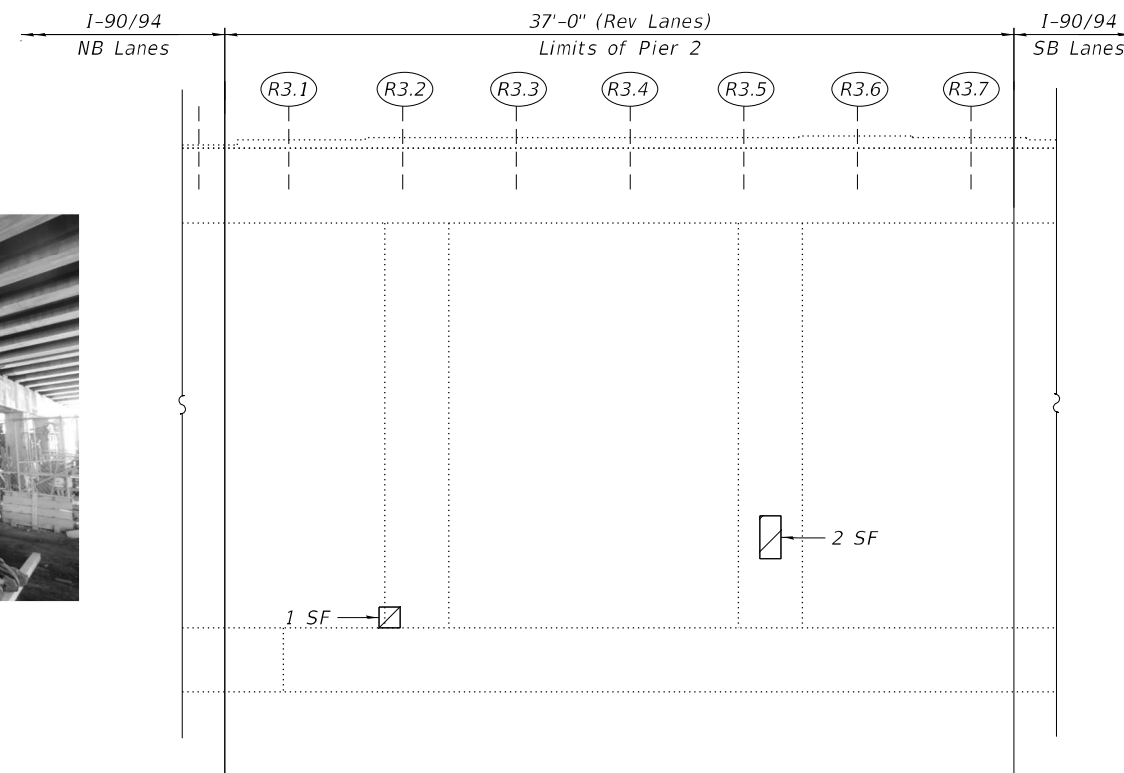
- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Epoxy Crack Injection (Width > 0.06")
- SF - Square Foot
- LF - Linear Foot



PIER 1 ELEVATION
(Looking North)



PIER 1 ELEVATION
(Looking South)



PIER 2 ELEVATION
(Looking South)



PIER 1 - EAST END
(Looking South)



PIER 1 - WEST END
(Looking Southwest)

MODEL: Default
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STATE OF ILLINOIS
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PIERS 1 AND 2 REPAIRS
STRUCTURE NO. 016-0133 (REV)

SHEET S08-68 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	685
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

NOTES:

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

2. Concrete Sealer is to be applied to the top of the pier caps.

PIER 3 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	112
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	21



PIER 4
(Looking Northeast)



PIER 4
(Looking South)

PIER 4 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Epoxy Crack Injection	Foot	1
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	32

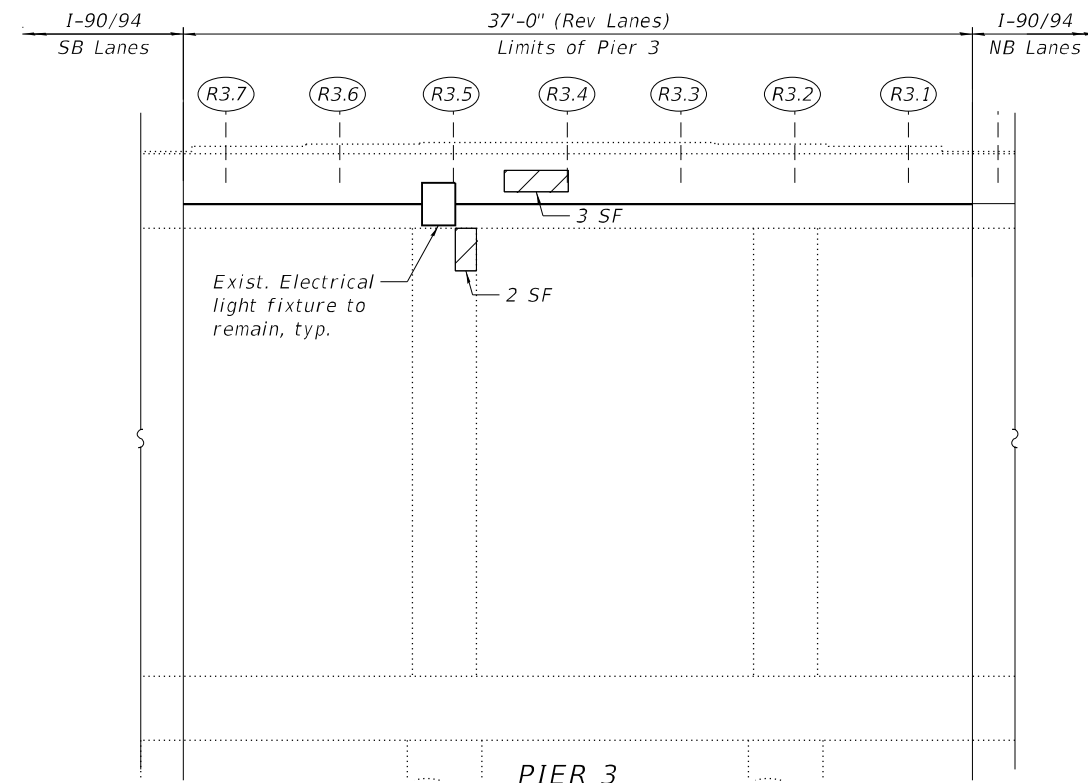
LEGEND

Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

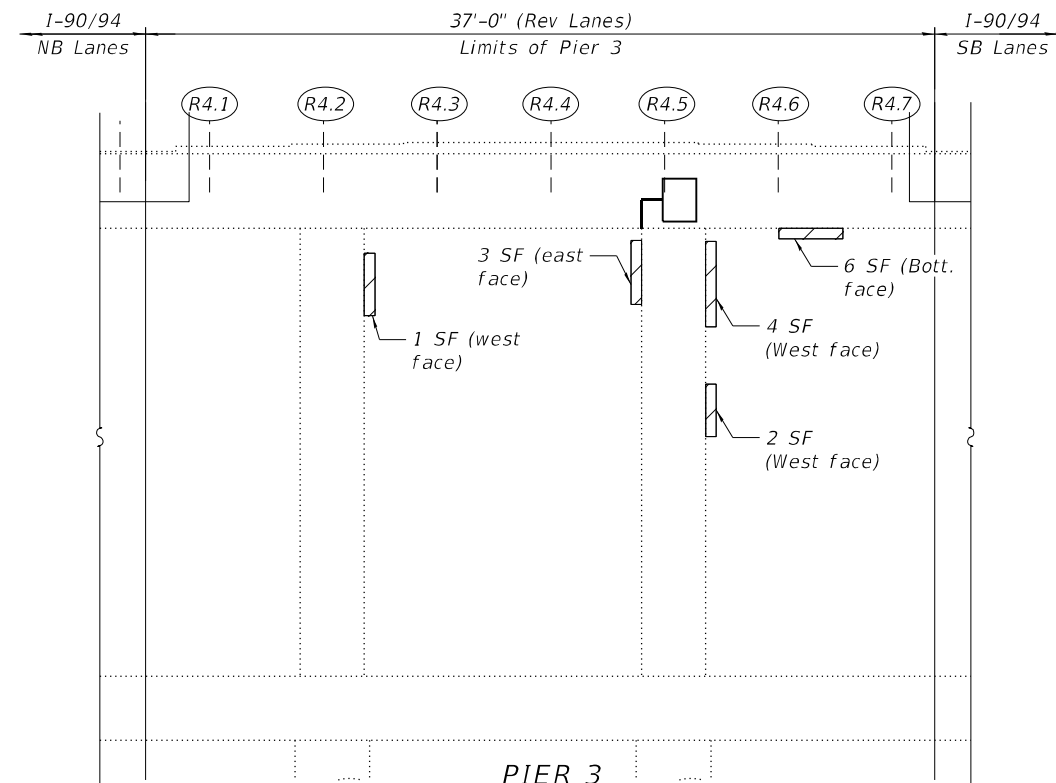
Epoxy Crack Injection (Width > 0.06")

SF - Square Foot

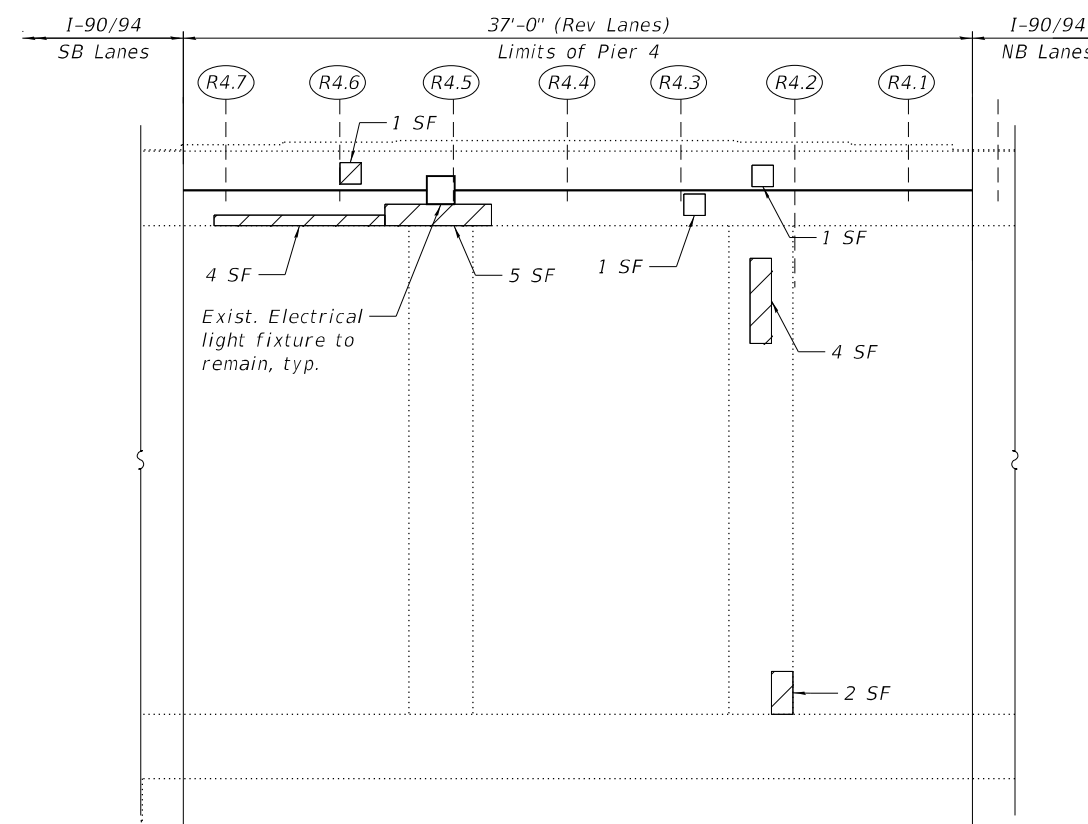
LF - Linear Foot



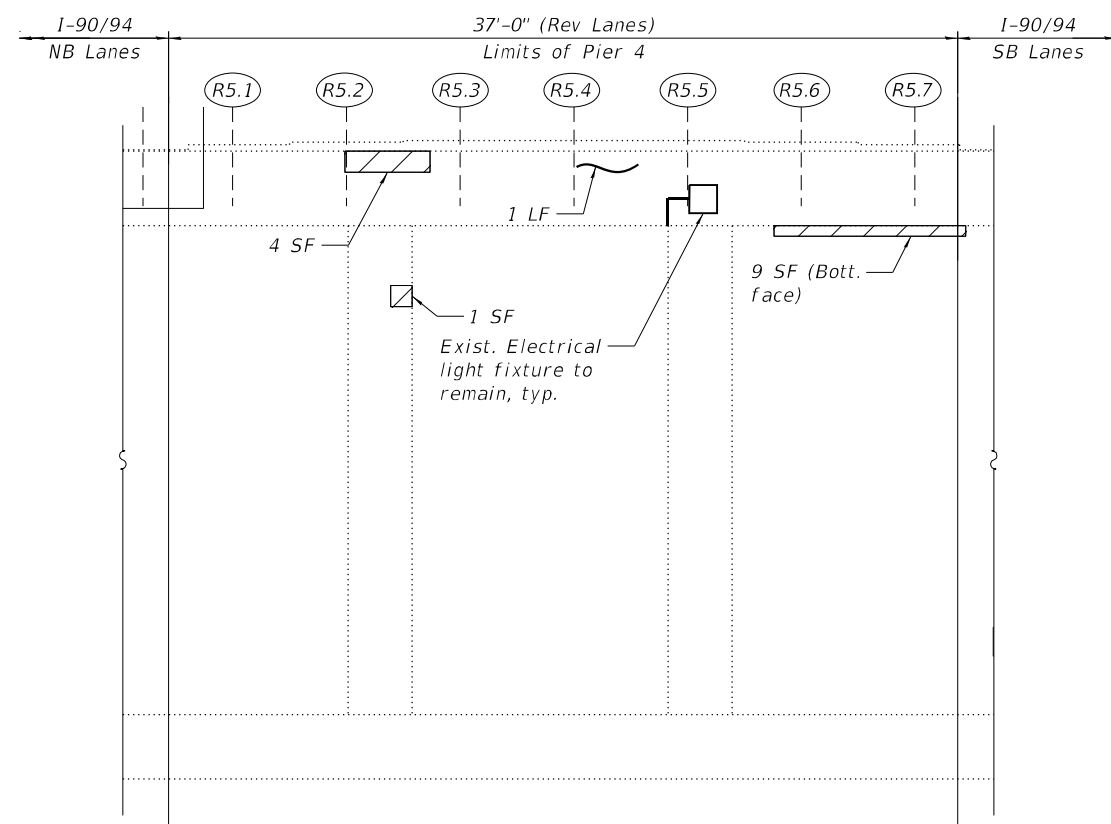
PIER 3
(Looking North)



PIER 3
(Looking South)



PIER 4
(Looking North)



PIER 4
(Looking South)

MODEL: Default
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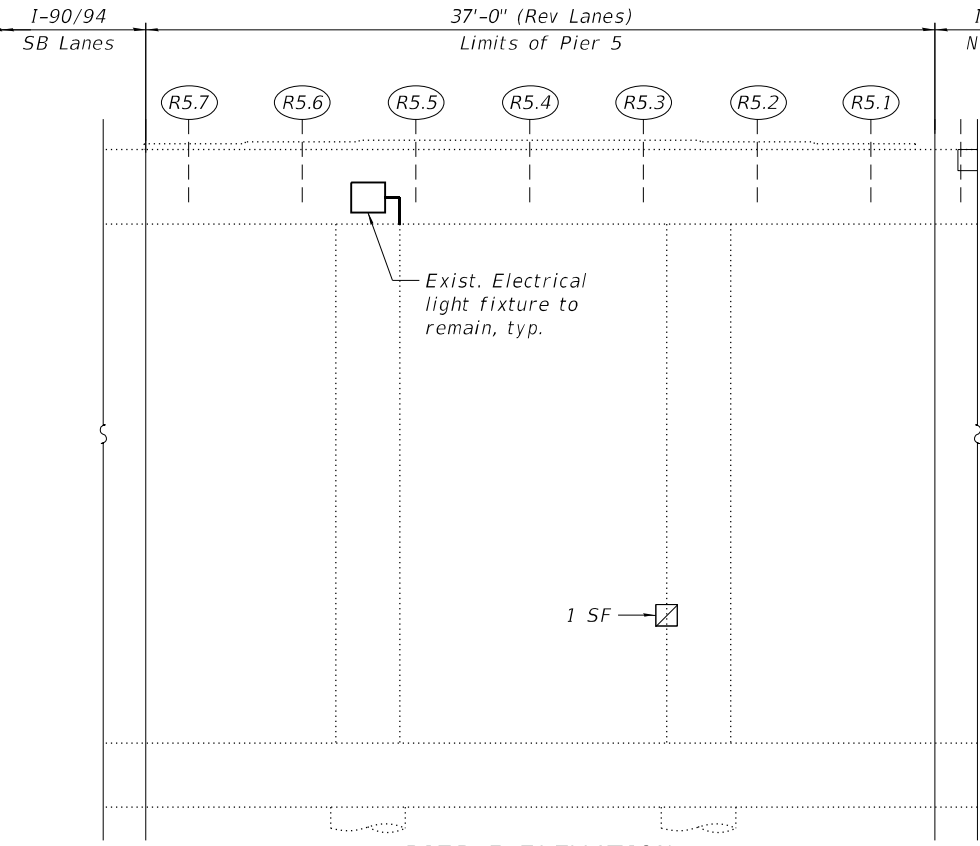
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STATE OF ILLINOIS
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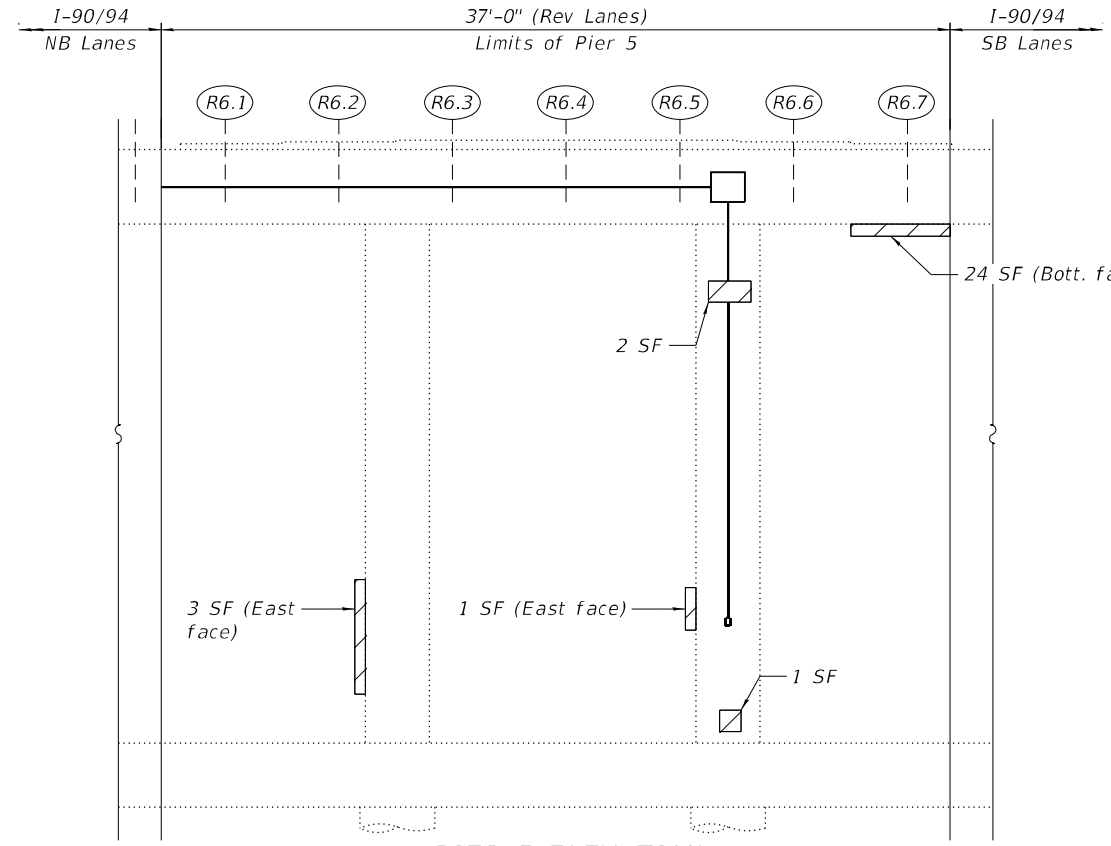
PIERS 3 AND 4 REPAIRS
STRUCTURE NO. 016-0133 (REV)

SHEET S08-69 OF S08-78 SHEETS

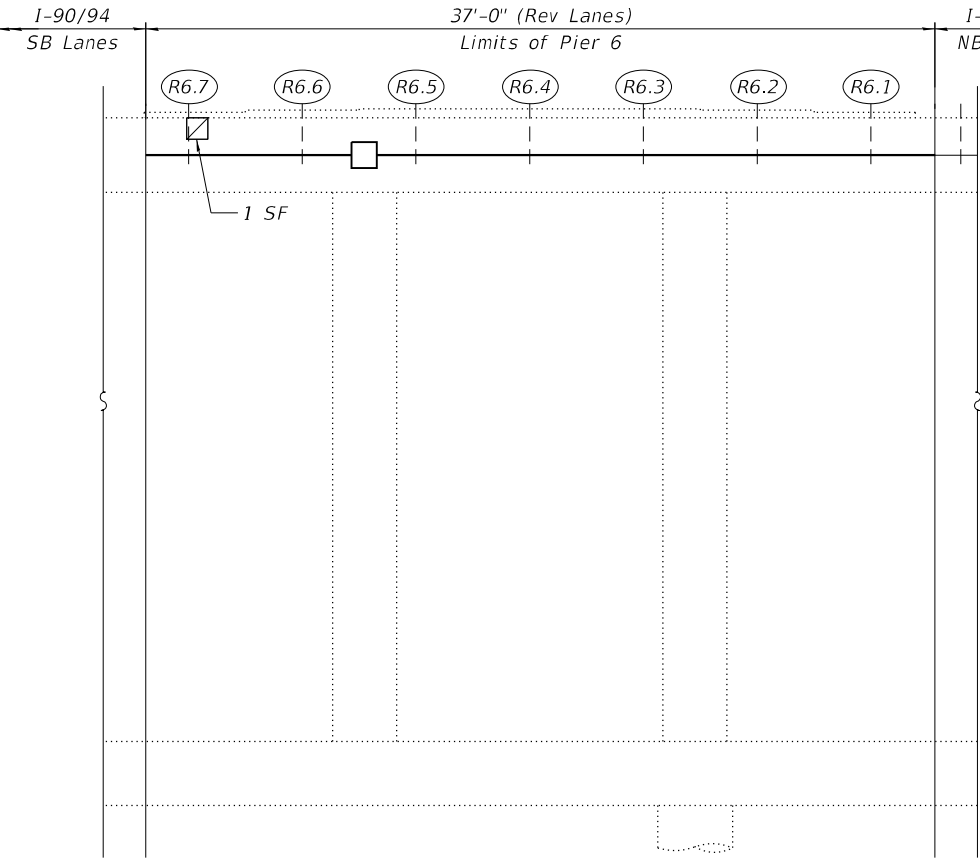
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90/94	2020-004-BR	COOK	1492	686
CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		



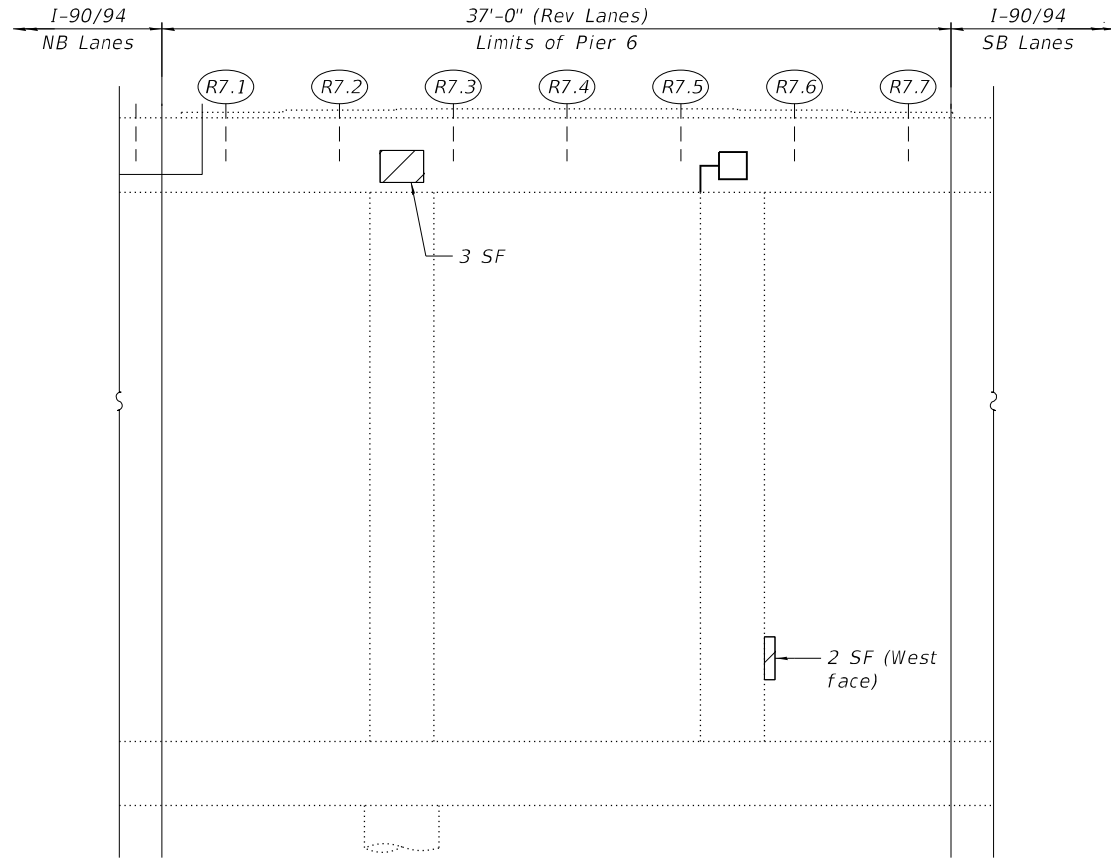
PIER 5 ELEVATION
(Looking North)



PIER 5 ELEVATION
(Looking South)



PIER 6 ELEVATION
(Looking North)



PIER 6 ELEVATION
(Looking South)

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Concrete Sealer is to be applied to the top of the pier caps.

PIER 5 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	112
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	32



PIER 5
(Looking South)



PIER 6
(Looking Northeast)

PIER 6 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	6

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- SF - Square Foot

MODEL: Default
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

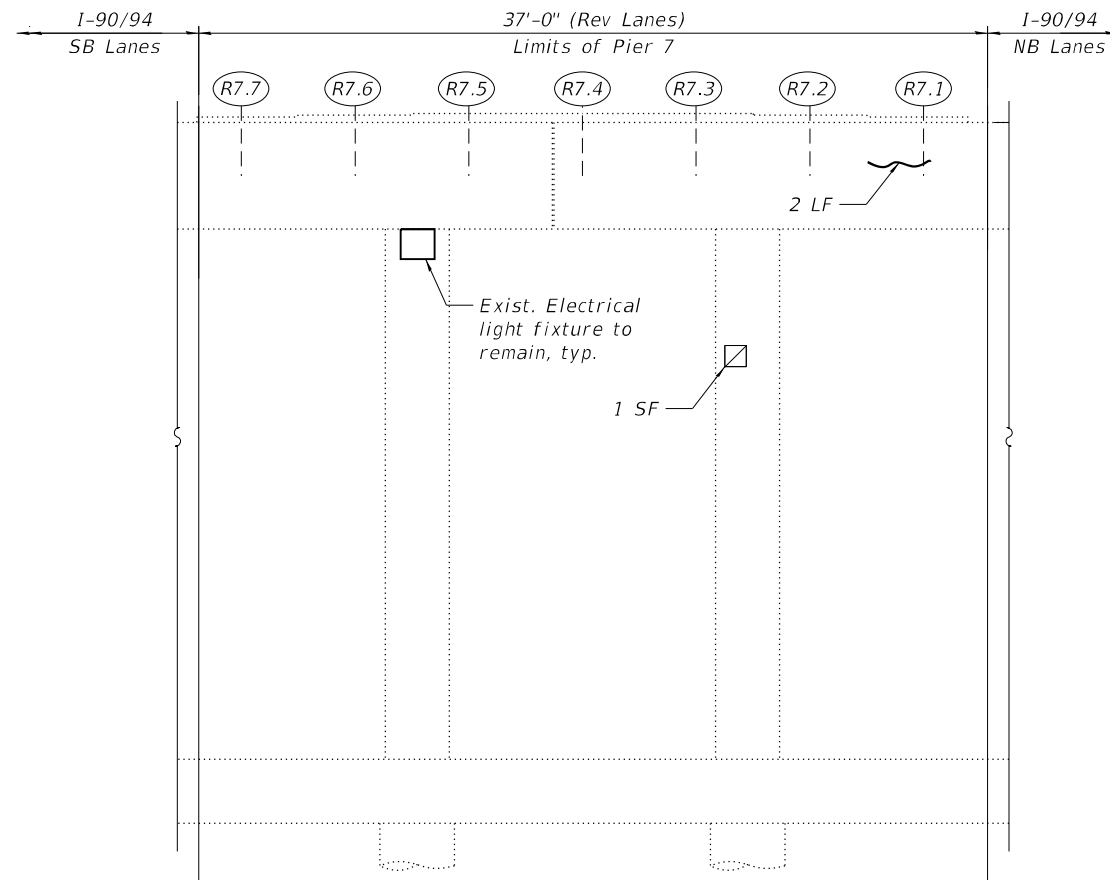
**PIERS 5 AND 6 REPAIRS
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-70 OF S08-78 SHEETS

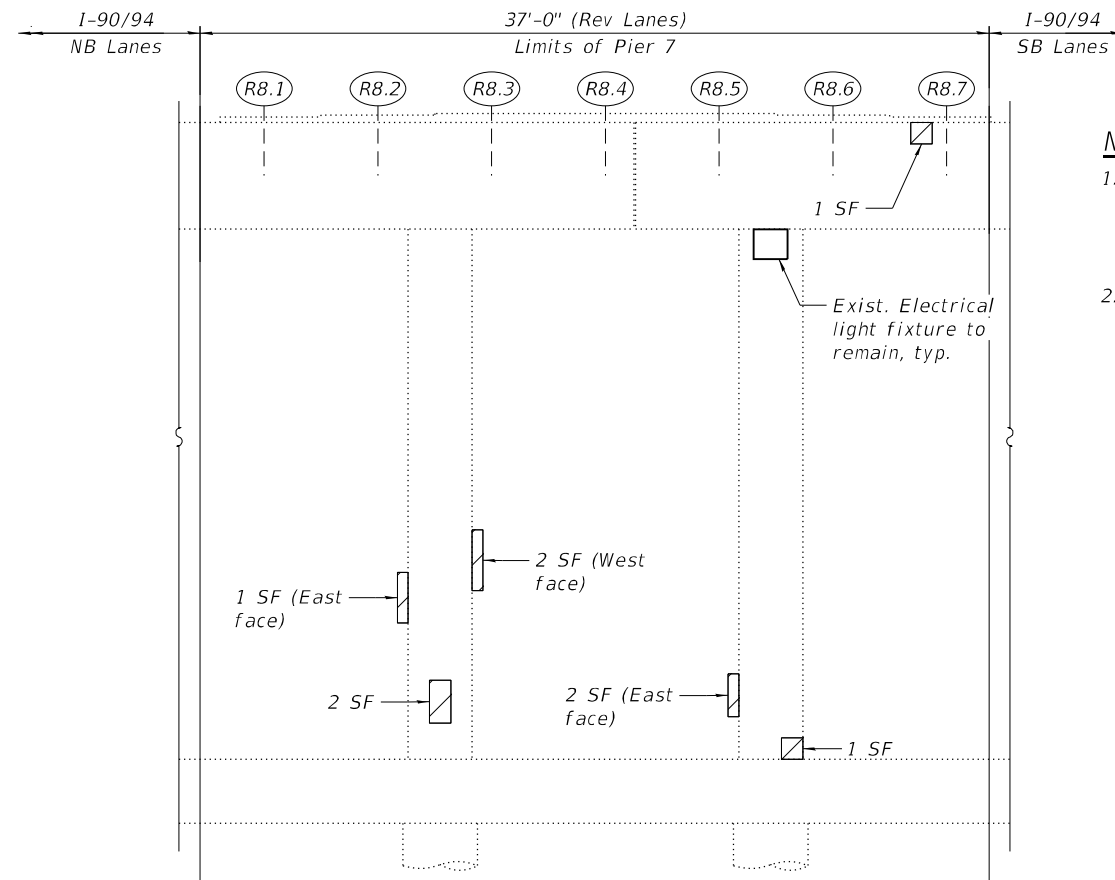
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90/94	2020-004-BR	COOK	1492	687
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	112
Epoxy Crack Injection	Foot	2
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	10



PIER 7 ELEVATION
(Looking North)



PIER 7 ELEVATION
(Looking South)

NOTES:



1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

2. Concrete Sealer is to be applied to the top of the pier cap.



PIER 7
(Looking North)

LEGEND

-  Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
-  Epoxy Crack Injection (Width > 0.06")
- SF - Square Foot

MODEL: Default
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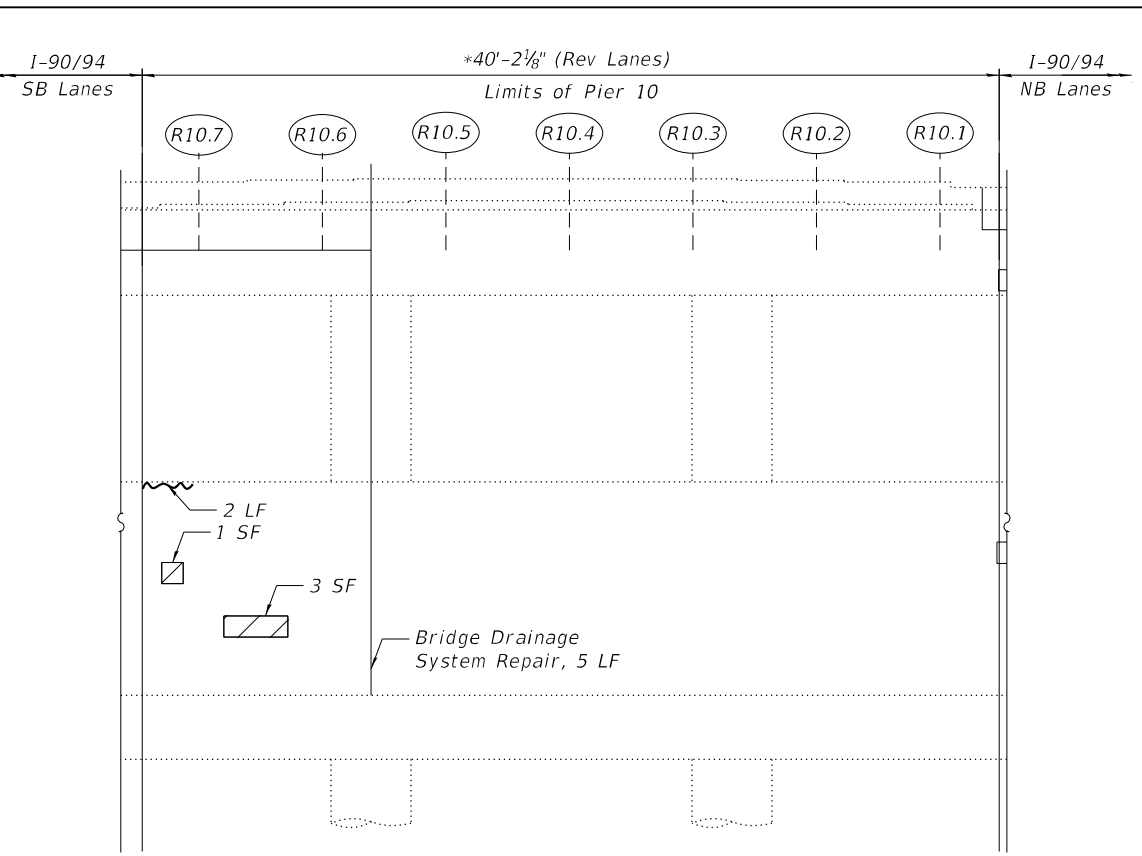
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 7 REPAIRS
STRUCTURE NO. 016-0133 (REV)**

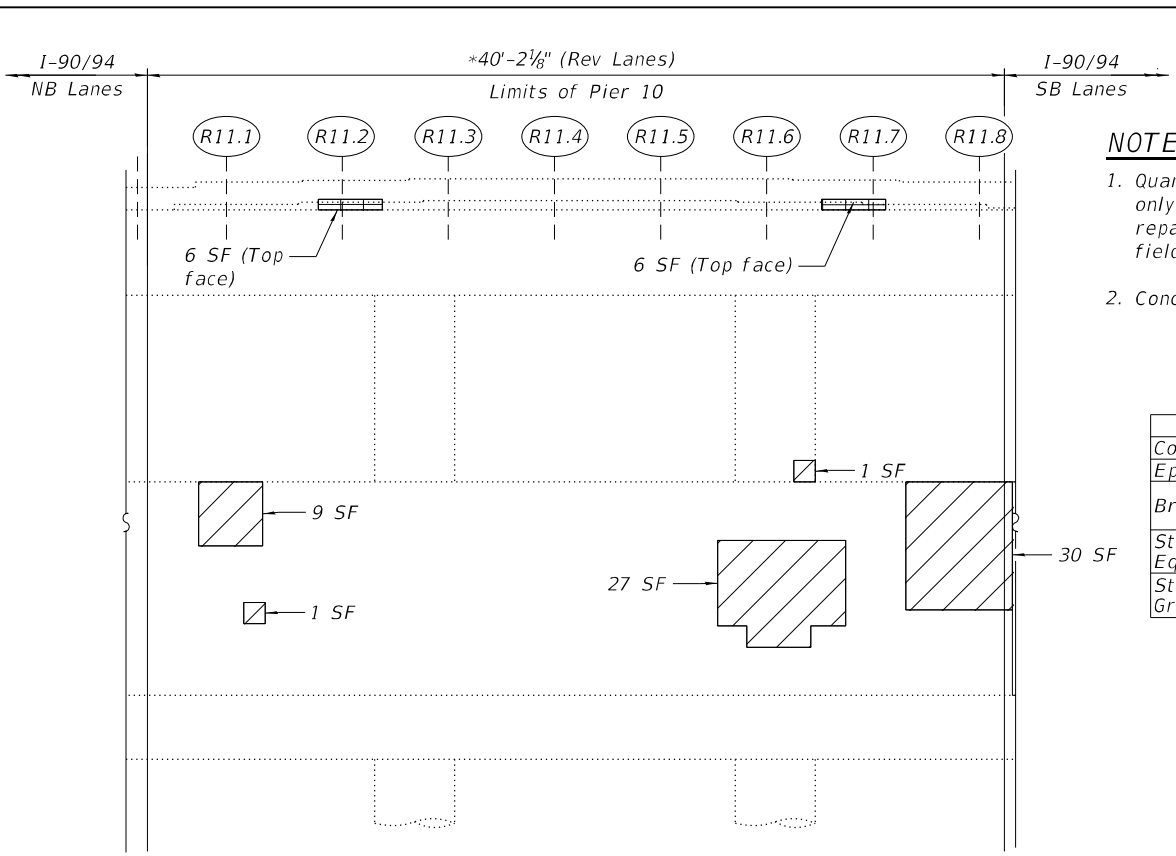
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CONTRACT NO. 62K74				
ILLINOIS		FED. AID PROJECT		

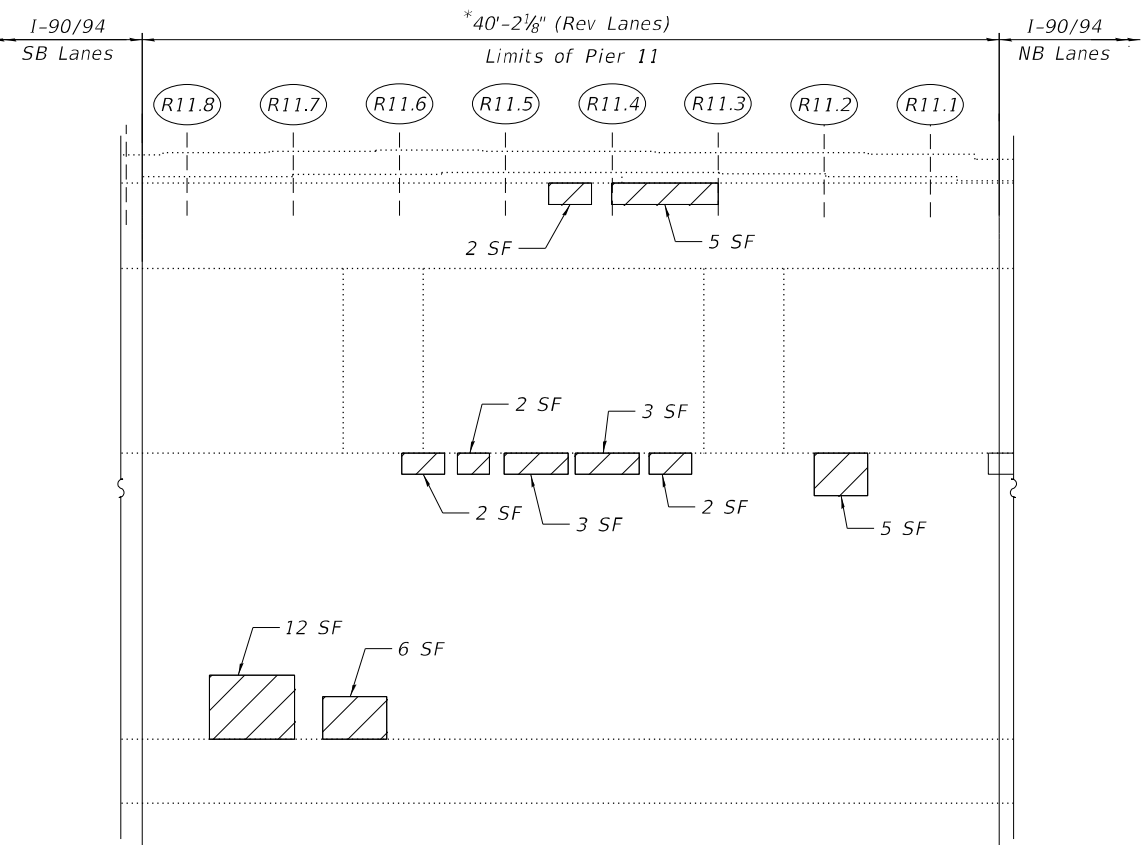
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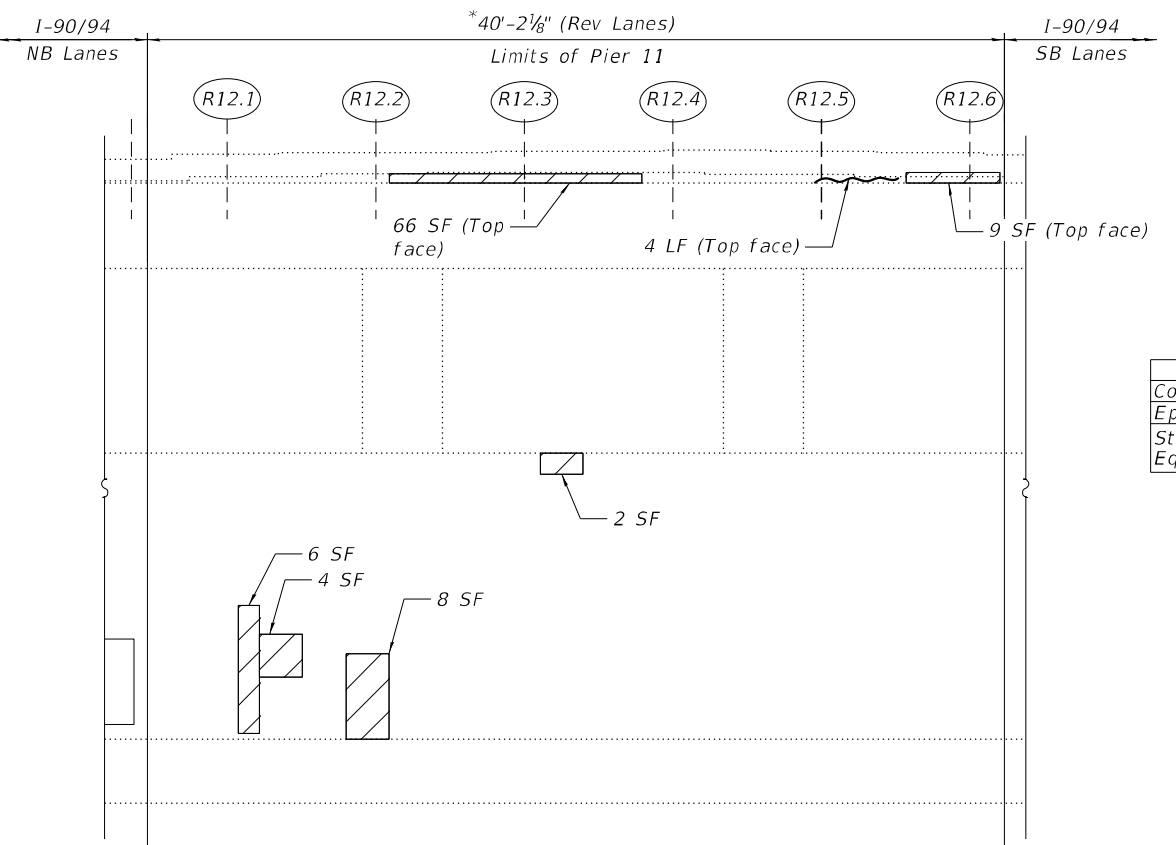
PIER 10 ELEVATION
(Looking North)



PIER 10 ELEVATION
(Looking South)



PIER 11 ELEVATION
(Looking North)



PIER 11 ELEVATION
(Looking South)

- NOTES:**
- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 - Concrete Sealer is to be applied to the top of the pier caps.

PIER 10 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	163
Epoxy Crack Injection	Foot	2
Bridge Drainage System Repair	Foot	5
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	72
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	12

*Length measured along the centerline of the pier.



PIER 10
(Looking Northwest)

PIER 11 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	163
Epoxy Crack Injection	Foot	4
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	135

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Structural Repair of Concrete (Depth Greater than 5 inches)
- Epoxy Crack Injection (Width > 0.06")
- SF - Square Foot
- LF - Linear Foot



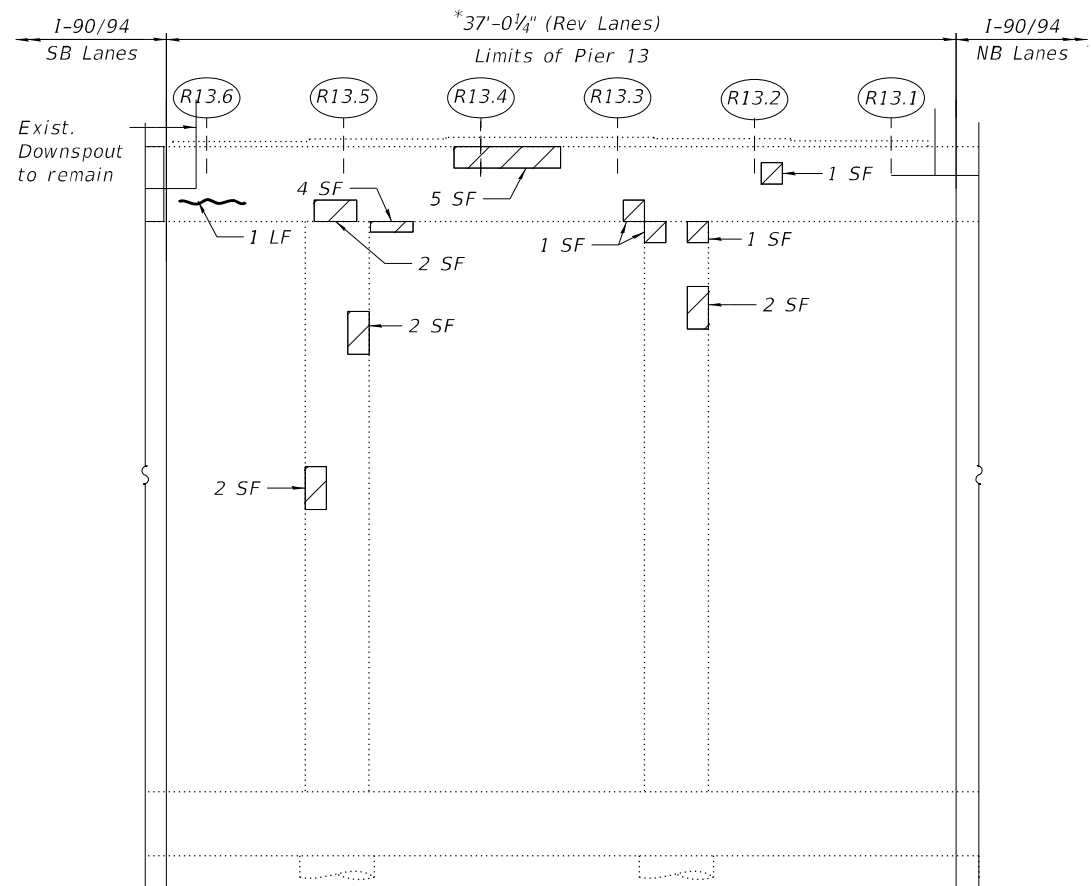
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STATE OF ILLINOIS
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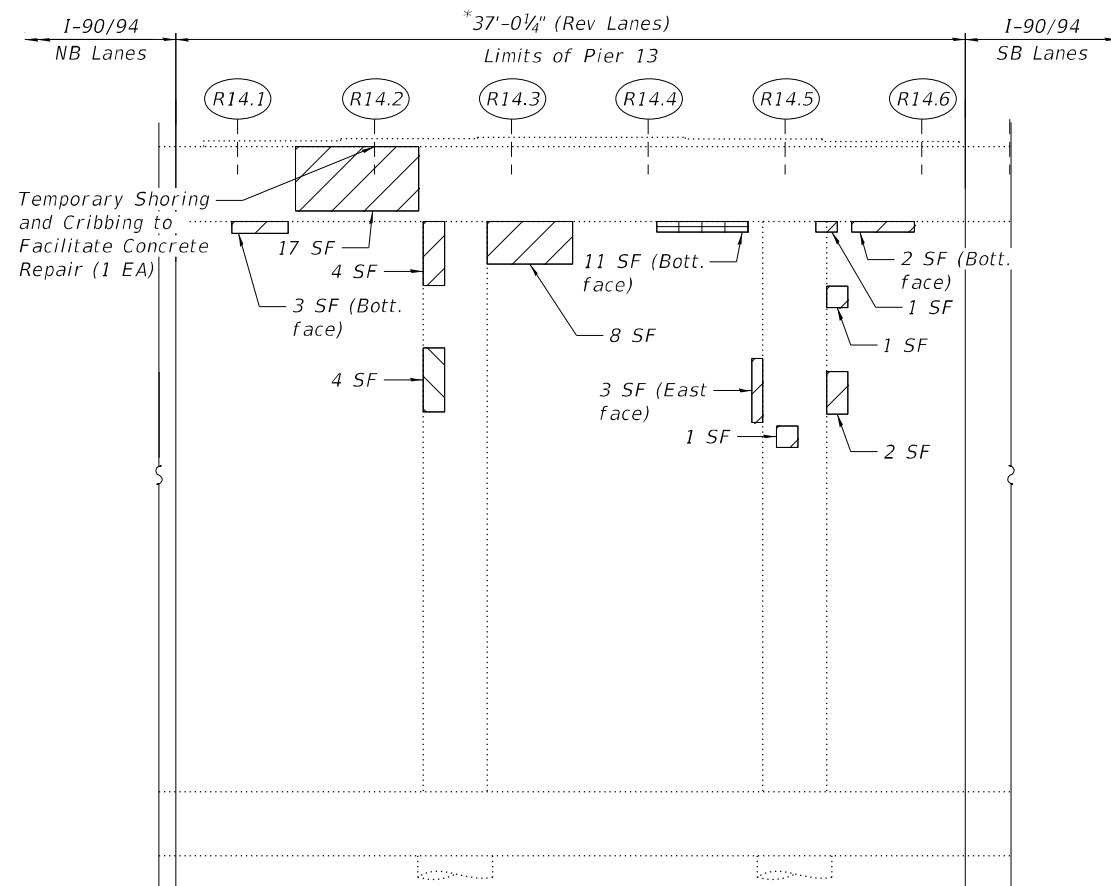
PIERS 10 AND 11 REPAIRS
STRUCTURE NO. 016-0133 (REV)

SHEET S08-72 OF S08-78 SHEETS

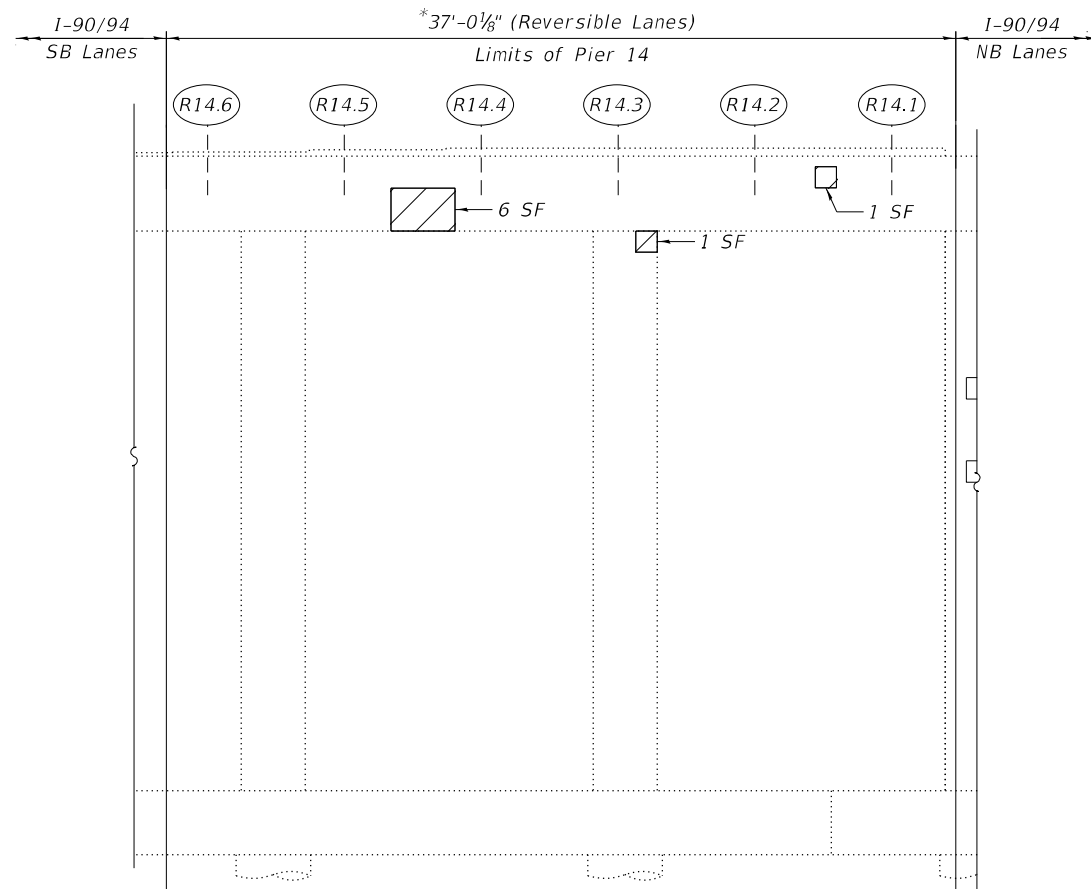
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90/94	2020-004-BR	COOK	1492	689
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



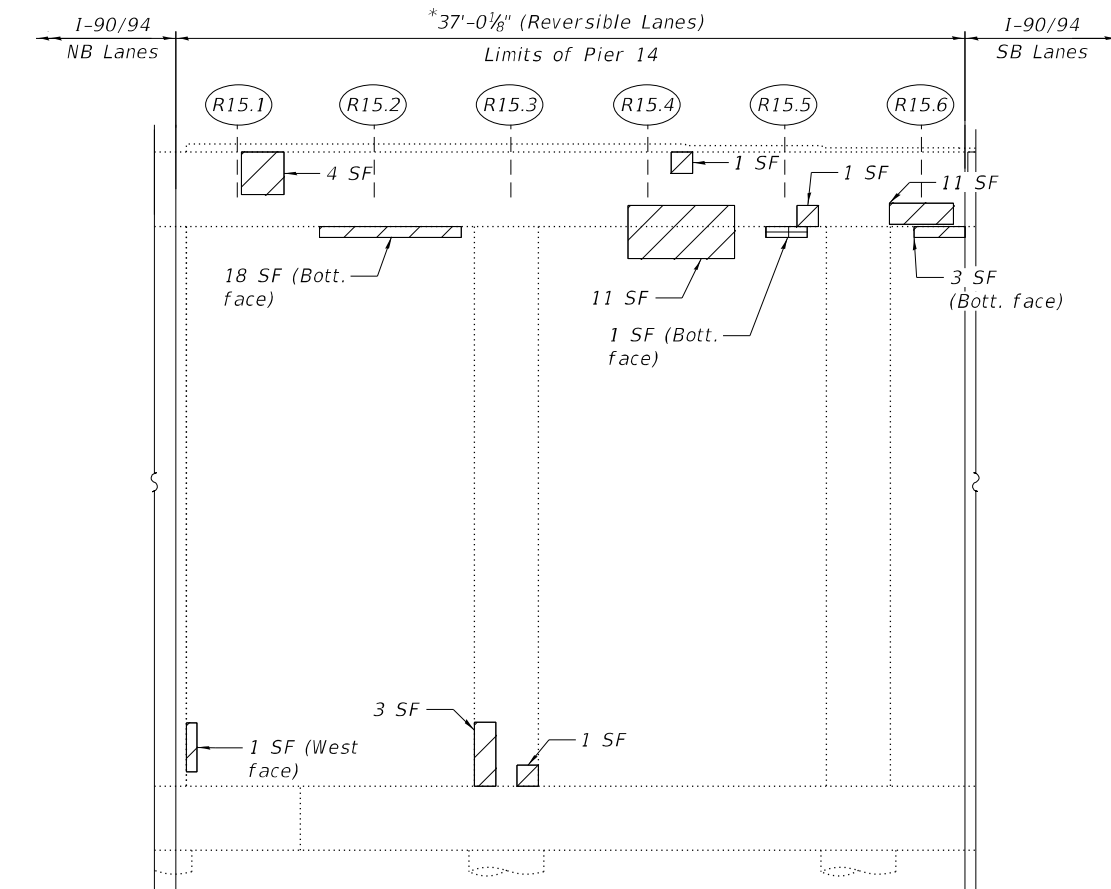
PIER 13 ELEVATION
(Looking North)



PIER 13 ELEVATION
(Looking South)



PIER 14 ELEVATION
(Looking North)



PIER 14 ELEVATION
(Looking South)

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Temporary shoring and cribbing shall be installed prior to the start of the structural repair of concrete and shall be removed after completing the structural repair of concrete.
- Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item "Temporary Shoring and Cribbing".
- Concrete Sealer is to be applied to the top of the pier caps.

PIER 13 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	115
Epoxy Crack Injection	Foot	1
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	49
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	11
Temporary Shoring And Cribbing	Each	1

SUMMARY OF REACTIONS

		Pier 13, Span 14
R DL	(k)	59.8
R LL	(k)	37.6
R IM	(k)	9.8
R Total	(k)	107.2

*Length measured along the centerline of the pier.

PIER 14 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	54
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	1

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Structural Repair of Concrete (Depth Greater than 5 inches)
- Epoxy Crack Injection (Width > 0.06")
- SF - Square Foot
- LF - Linear Foot

MODEL: Default
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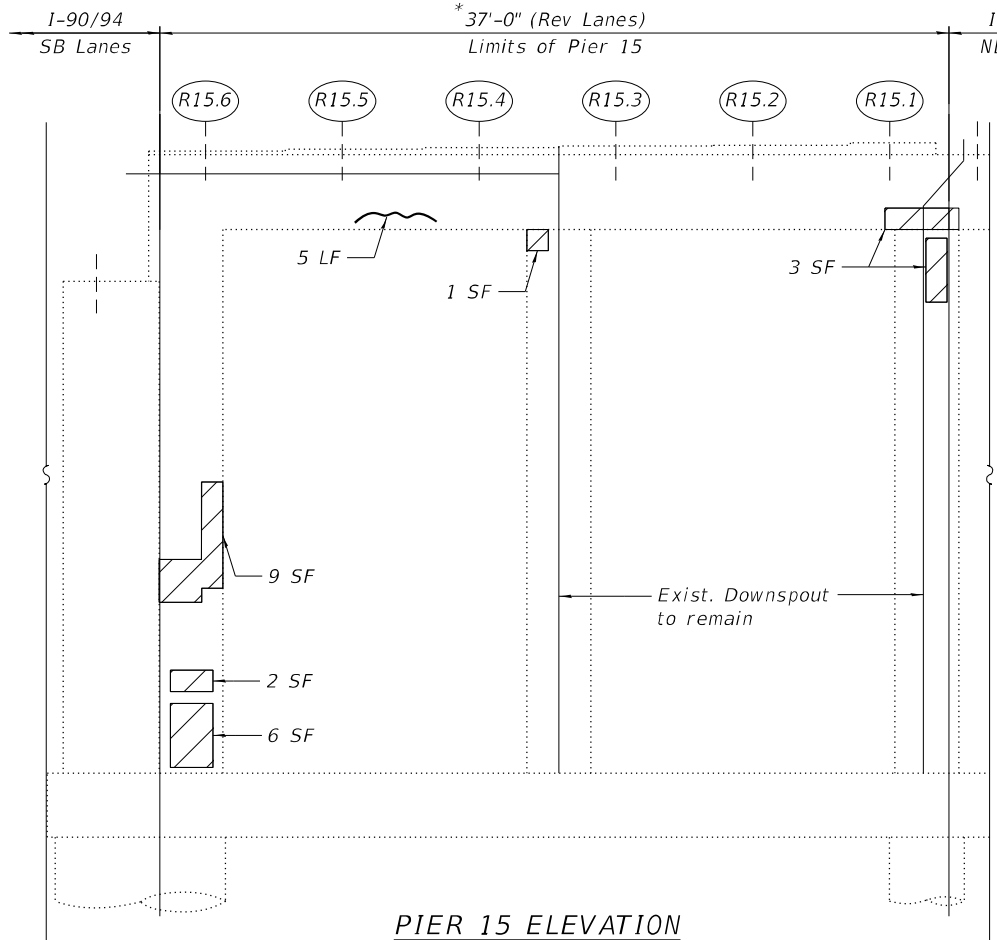
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PLOT DATE =	DATE - 9/13/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

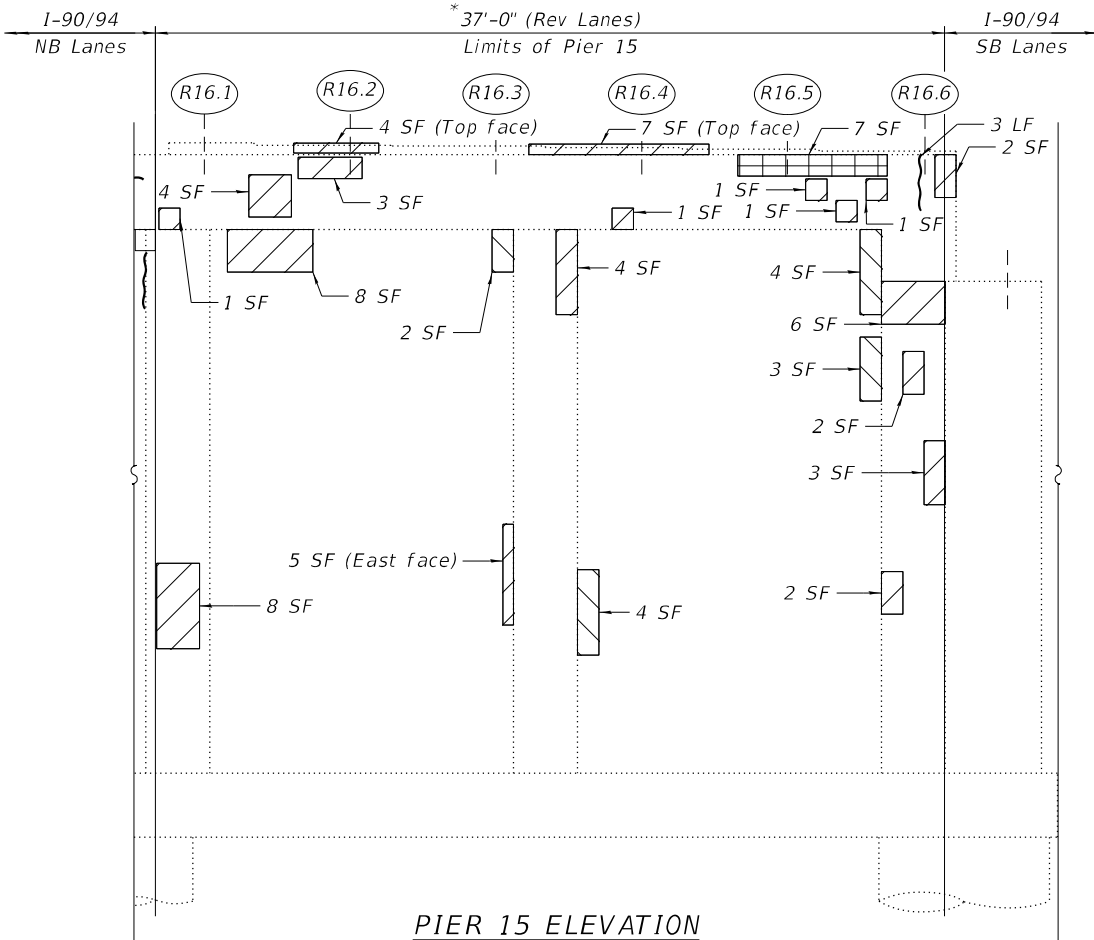
**PIERS 13 AND 14 REPAIRS
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-73 OF S08-78 SHEETS

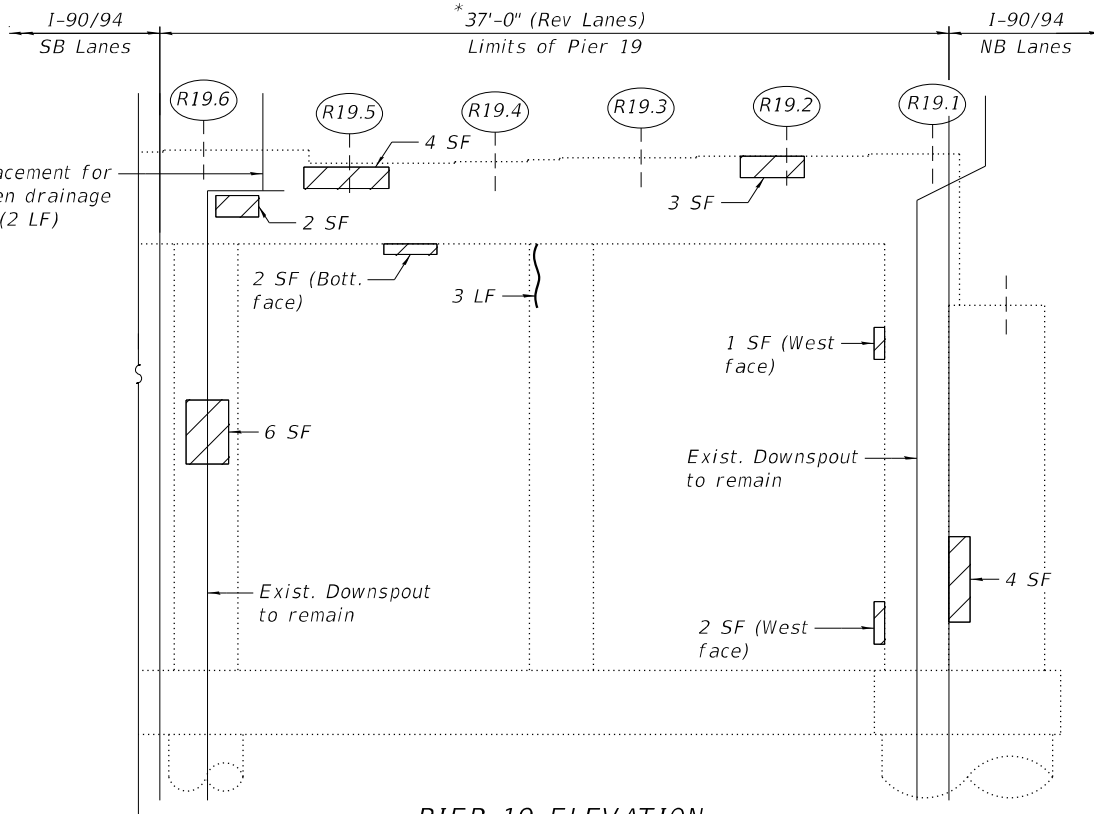
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	690
CONTRACT NO. 62K74				
		ILLINOIS	FED. AID PROJECT	



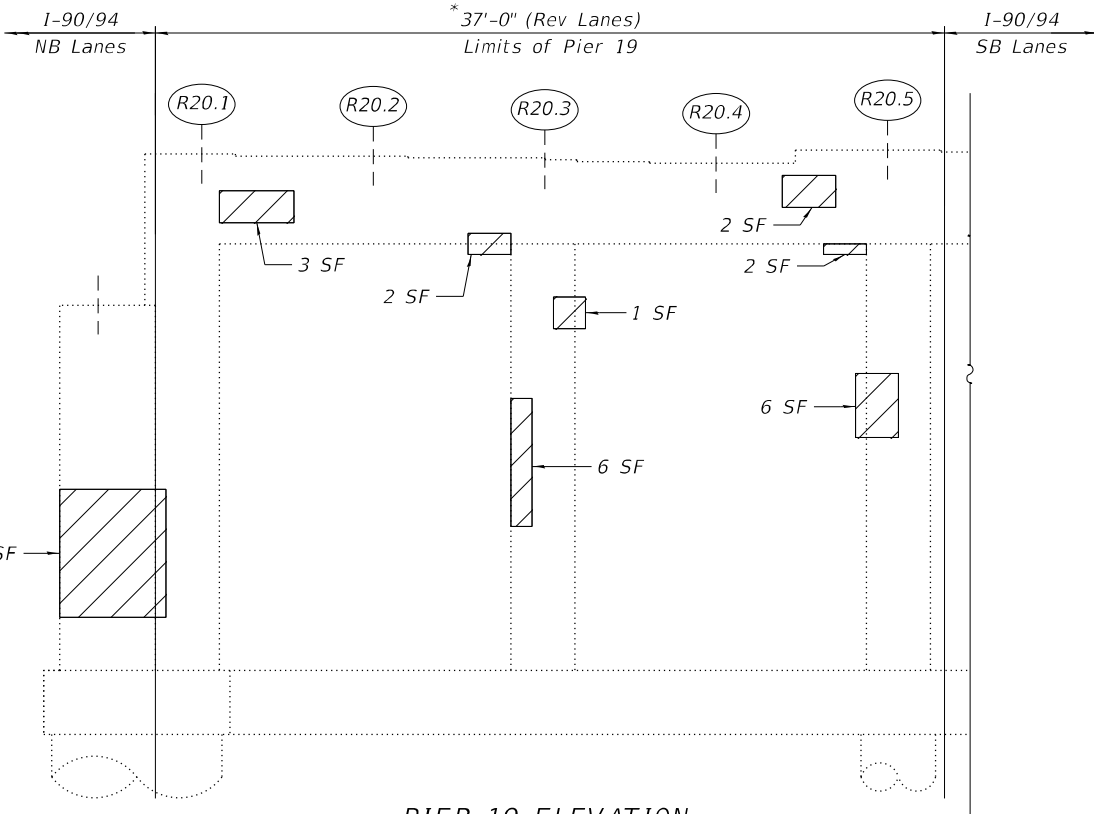
PIER 15 ELEVATION
(Looking North)



PIER 15 ELEVATION
(Looking South)



PIER 19 ELEVATION
(Looking North)



PIER 19 ELEVATION
(Looking South)

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Concrete Sealer is to be applied to the top of the pier caps.

PIER 15 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	110
Epoxy Crack Injection	Foot	8
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	104
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	7

* Length measured along the centerline of the pier.



PIER 15
(Looking North)



PIER 19 - EAST END
(Looking Northeast)

PIER 19 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	111
Epoxy Crack Injection	Foot	3
Bridge Drainage System Repair	Foot	2
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	76

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Structural Repair of Concrete (Depth Greater than 5 inches)
- Epoxy Crack Injection (Width > 0.06")
- SF - Square Foot
- LF - Linear Foot

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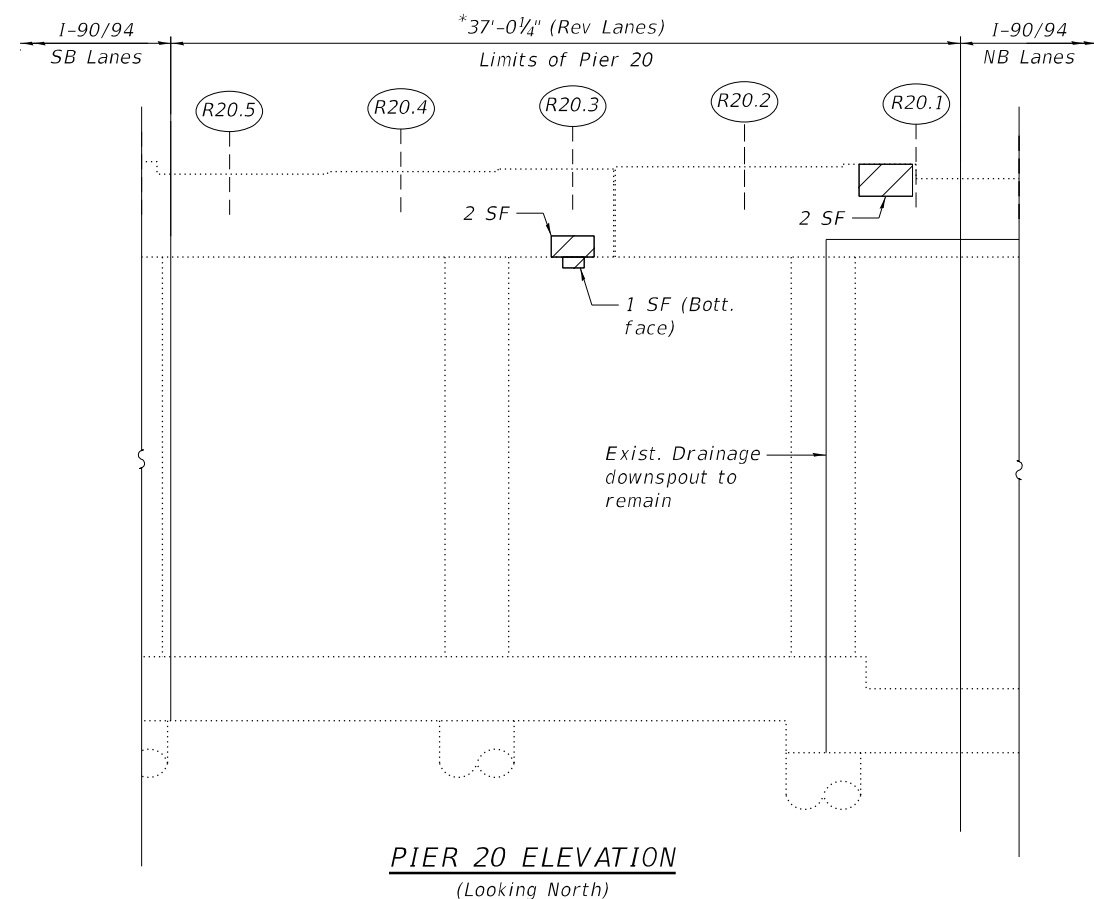
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

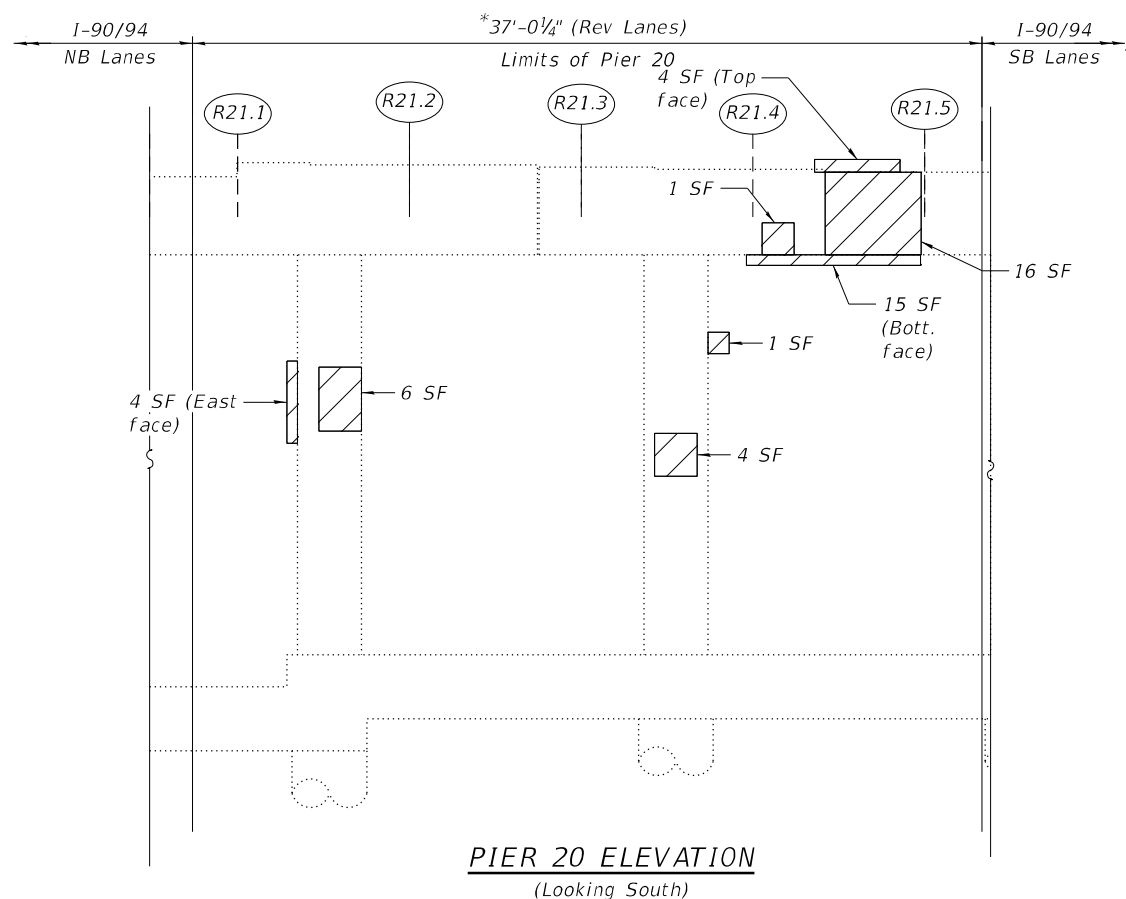
PIERS 15 AND 19 REPAIRS
STRUCTURE NO. 016-0133 (REV)

SHEET S08-74 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	691
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



PIER 20 ELEVATION
(Looking North)



PIER 20 ELEVATION
(Looking South)

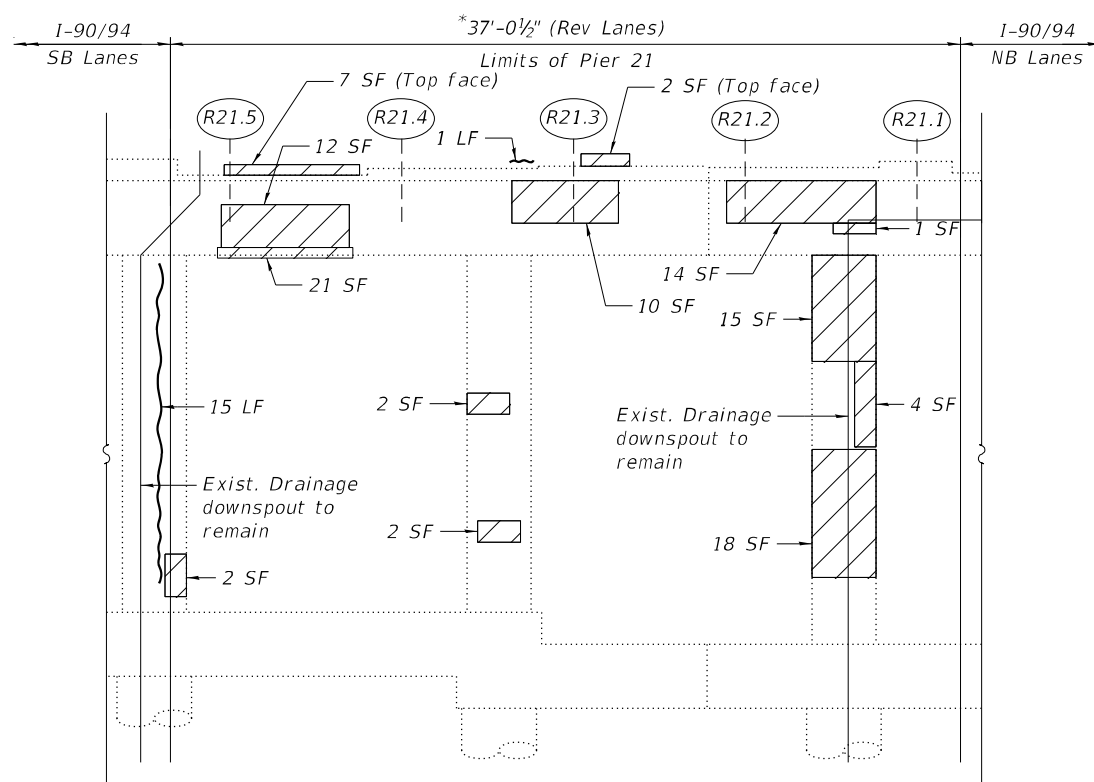
NOTES:

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
2. Temporary shoring and cribbing shall be installed prior to the start of the structural repair of concrete and shall be removed after completing the structural repair of concrete.
3. Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item "Temporary Shoring and Cribbing".
4. Concrete Sealer is to be applied to the top of the pier caps.

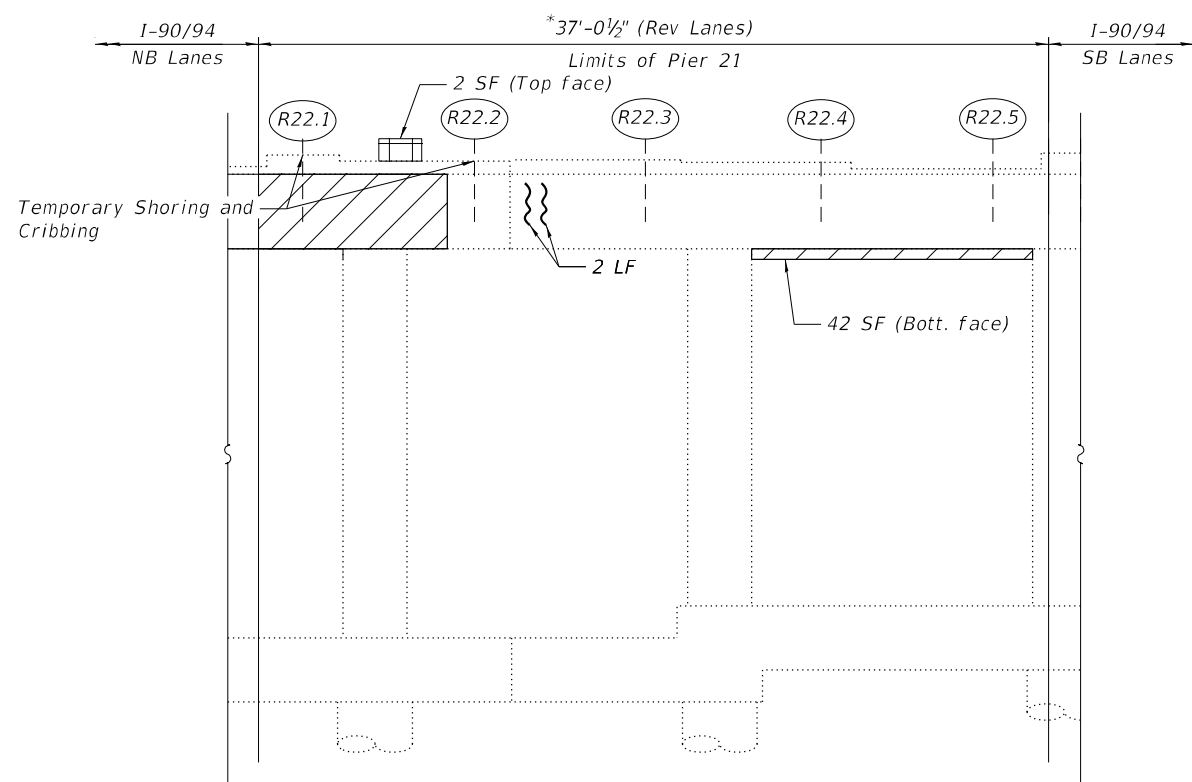
PIER 20 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	112
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	56

* Length measured along the centerline of the pier.



PIER 21 ELEVATION
(Looking North)



PIER 21 ELEVATION
(Looking South)

PIER 21 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	112
Epoxy Crack Injection	Foot	20
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	183
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	2
Temporary Shoring And Cribbing	Each	2

SUMMARY OF REACTIONS		
Pier 21, Span 22		
R DL	(k)	46.8
R LL	(k)	37.4
R IM	(k)	10.6
R Total	(k)	94.8

LEGEND

- Structural Repair of Concrete (Depth Greater than 5 inches)
- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Epoxy Crack Injection (Width > 0.06")
- SF - Square Foot
- LF - Linear Foot

MODEL: Default
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	DATE - 9/13/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS 20 AND 21 REPAIRS
STRUCTURE NO. 016-0133 (REV)

SHEET S08-75 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	692
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

NOTES:

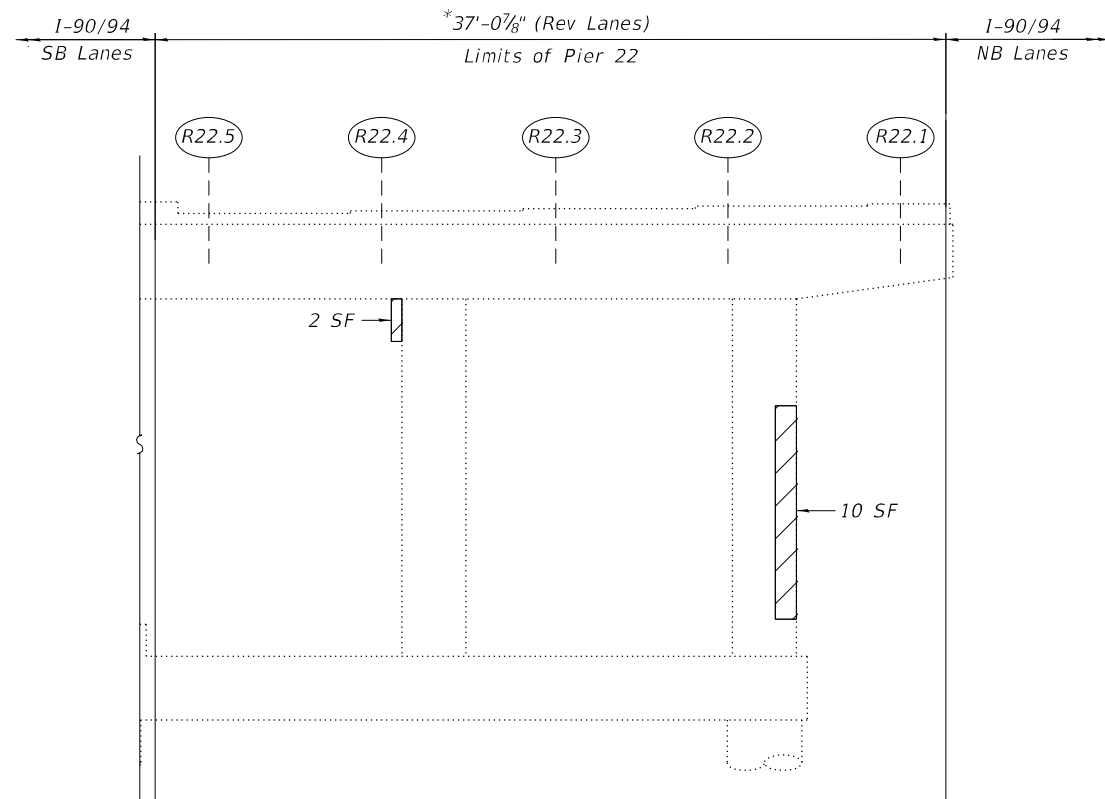
- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Temporary shoring and cribbing shall be installed prior to the start of the structural repair of concrete and shall be removed after completing the structural repair of concrete.
- Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'
- Concrete Sealer is to be applied to the top of the pier caps.

PIER 22 BILL OF MATERIAL

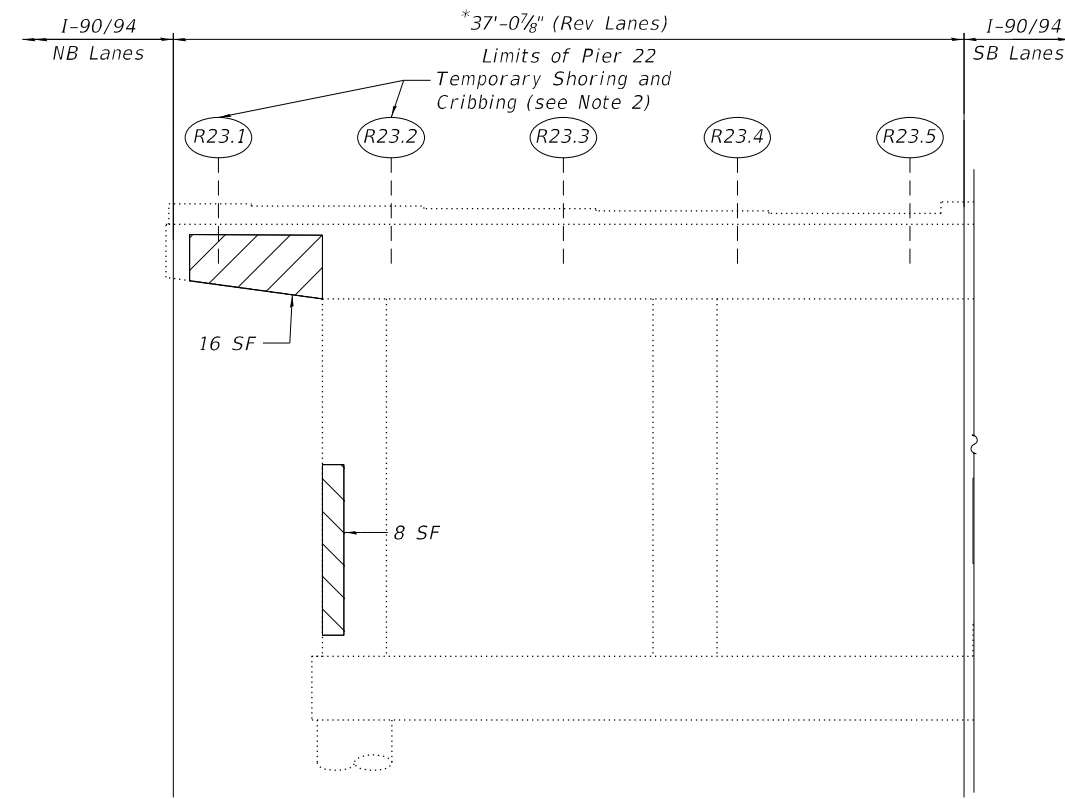
ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	112
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	36
Temporary Shoring And Cribbing	Each	2

SUMMARY OF REACTIONS	
Pier 22, Span 23	
R DL (k)	73.4
R LL (k)	40.4
R IM (k)	9.9
R Total (k)	123.7

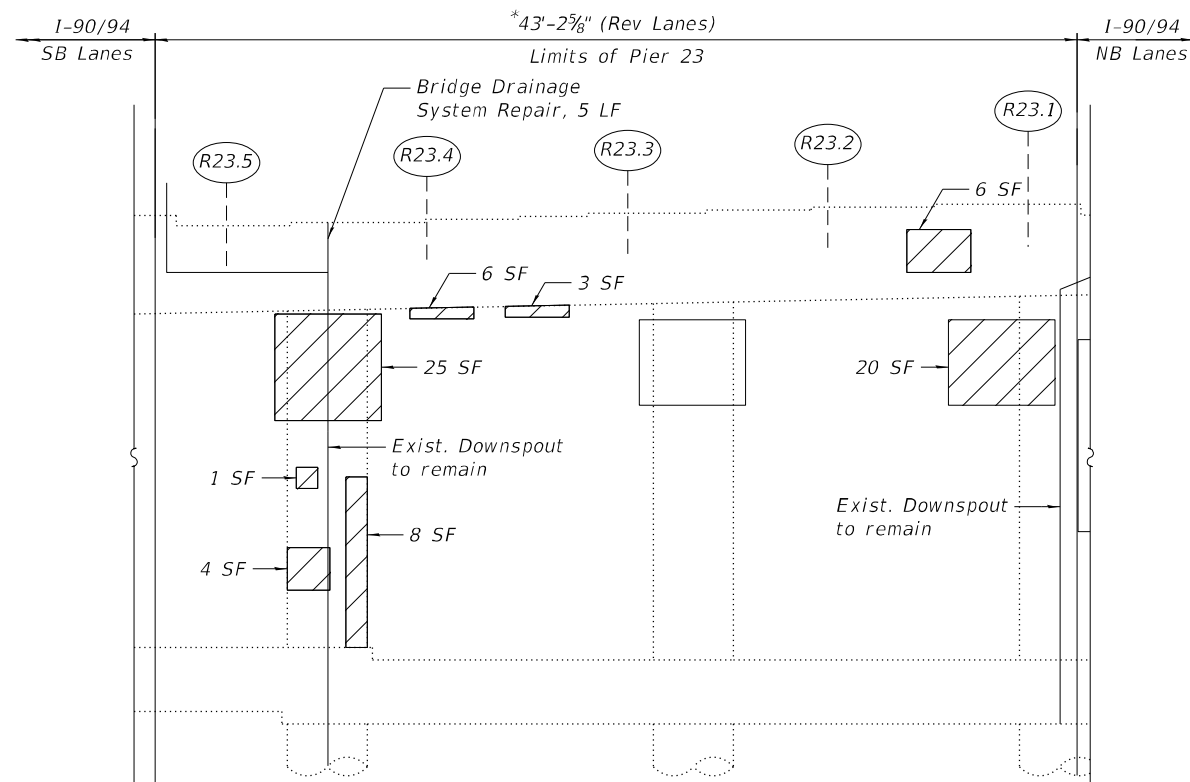
* Length measured along the centerline of the pier.



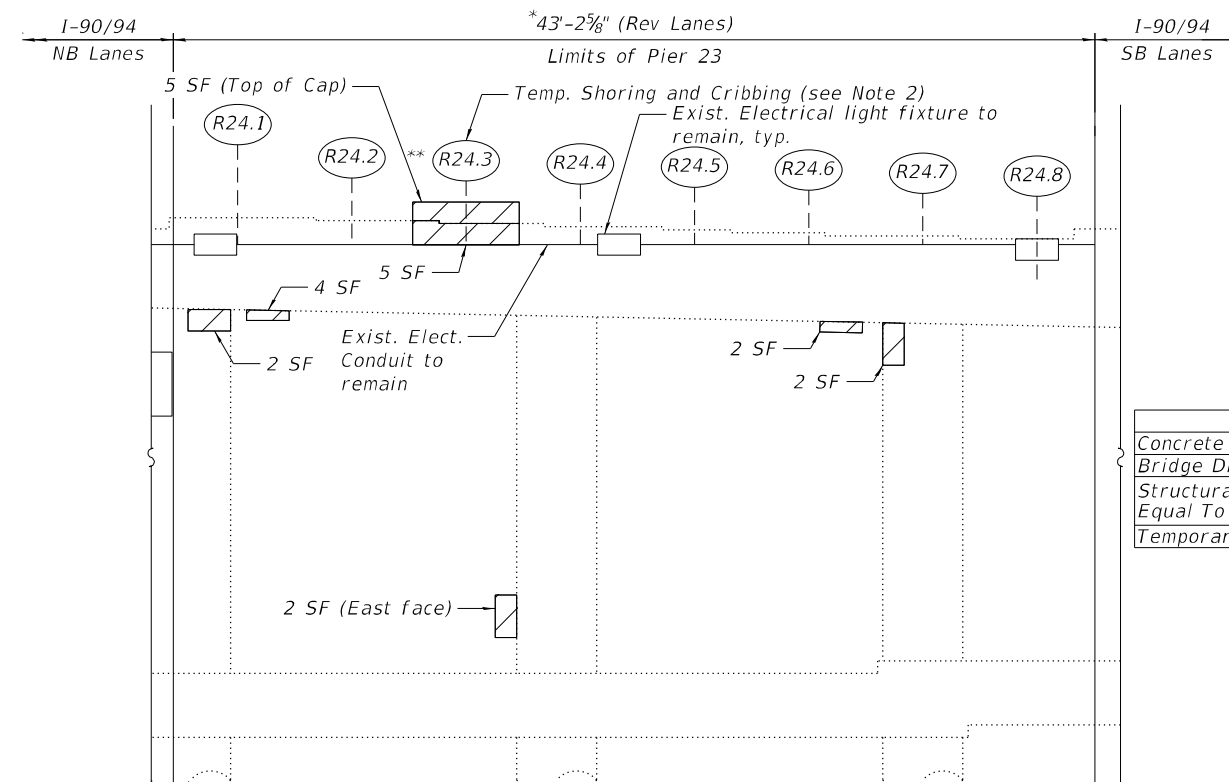
PIER 22 ELEVATION
(Looking North)



PIER 22 ELEVATION
(Looking South)



PIER 23 ELEVATION
(Looking North)



PIER 23 ELEVATION
(Looking South)



PIER 23 - EAST END
(Looking North)

PIER 23 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	191
Bridge Drainage System Repair	Foot	5
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	95
Temporary Shoring And Cribbing	Each	1

SUMMARY OF REACTIONS	
Pier 23, Span 24	
R DL (k)	70.4
R LL (k)	37.6
R IM (k)	9.1
R Total (k)	117.1

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- SF - Square Foot

MODEL: Default
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIERS 22 AND 23 REPAIRS
STRUCTURE NO. 016-0133 (REV)**

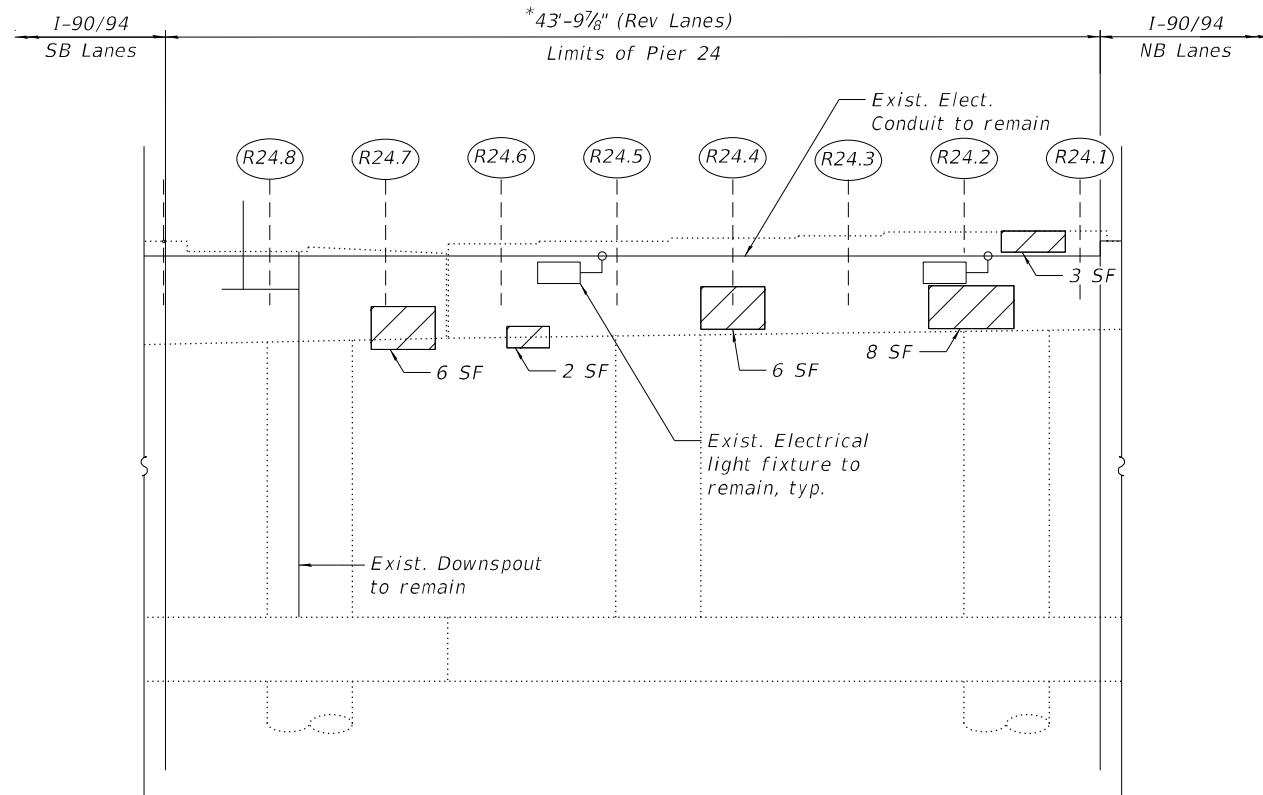
SHEET S08-76 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				

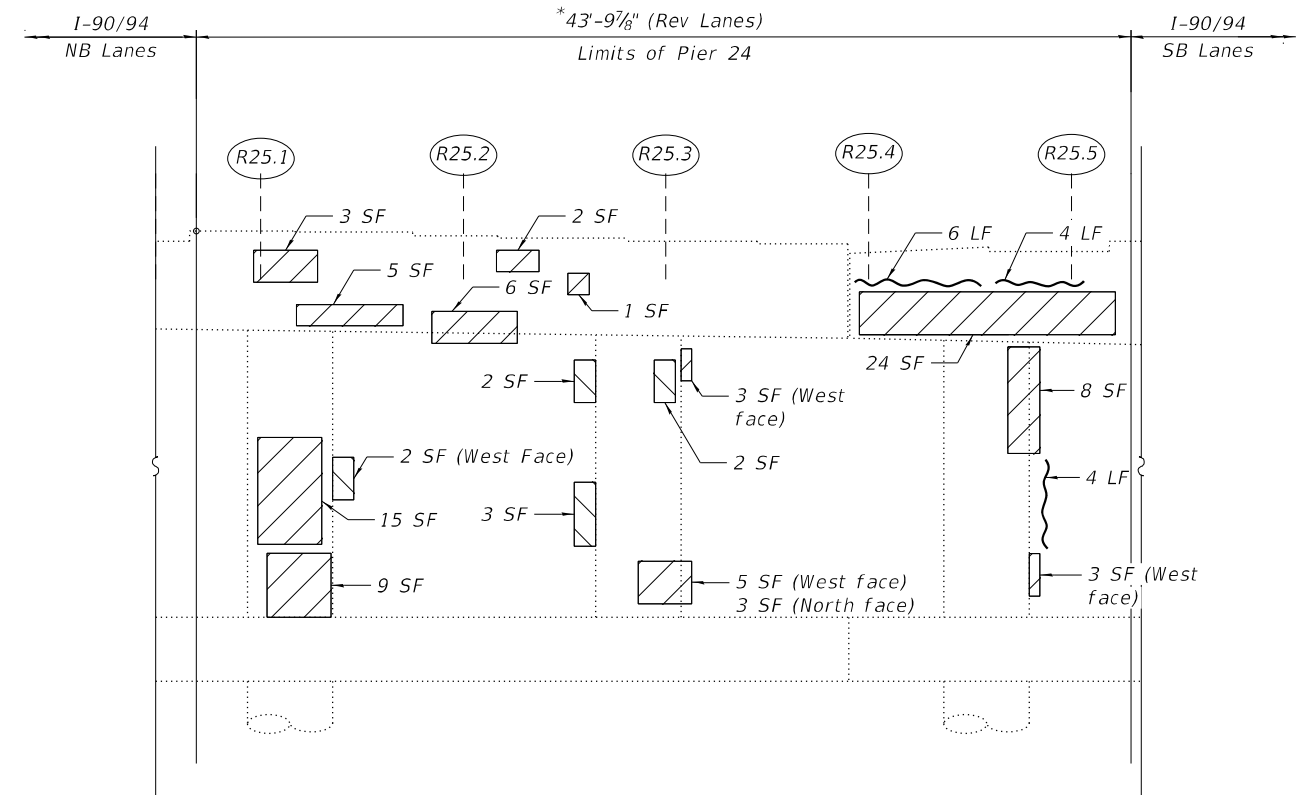
NOTES:

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
2. Concrete Sealer is to be applied to the top of the pier cap.

*Length measured along the centerline of the pier.



PIER 24 ELEVATION
(Looking North)



PIER 24 ELEVATION
(Looking South)



PIER 24
(Looking North)

PIER 24 BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	202
Epoxy Crack Injection	Foot	14
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	121

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Epoxy Crack Injection (Width > 0.06")

- SF - Square Foot
- LF - Linear Foot

MODEL: Default
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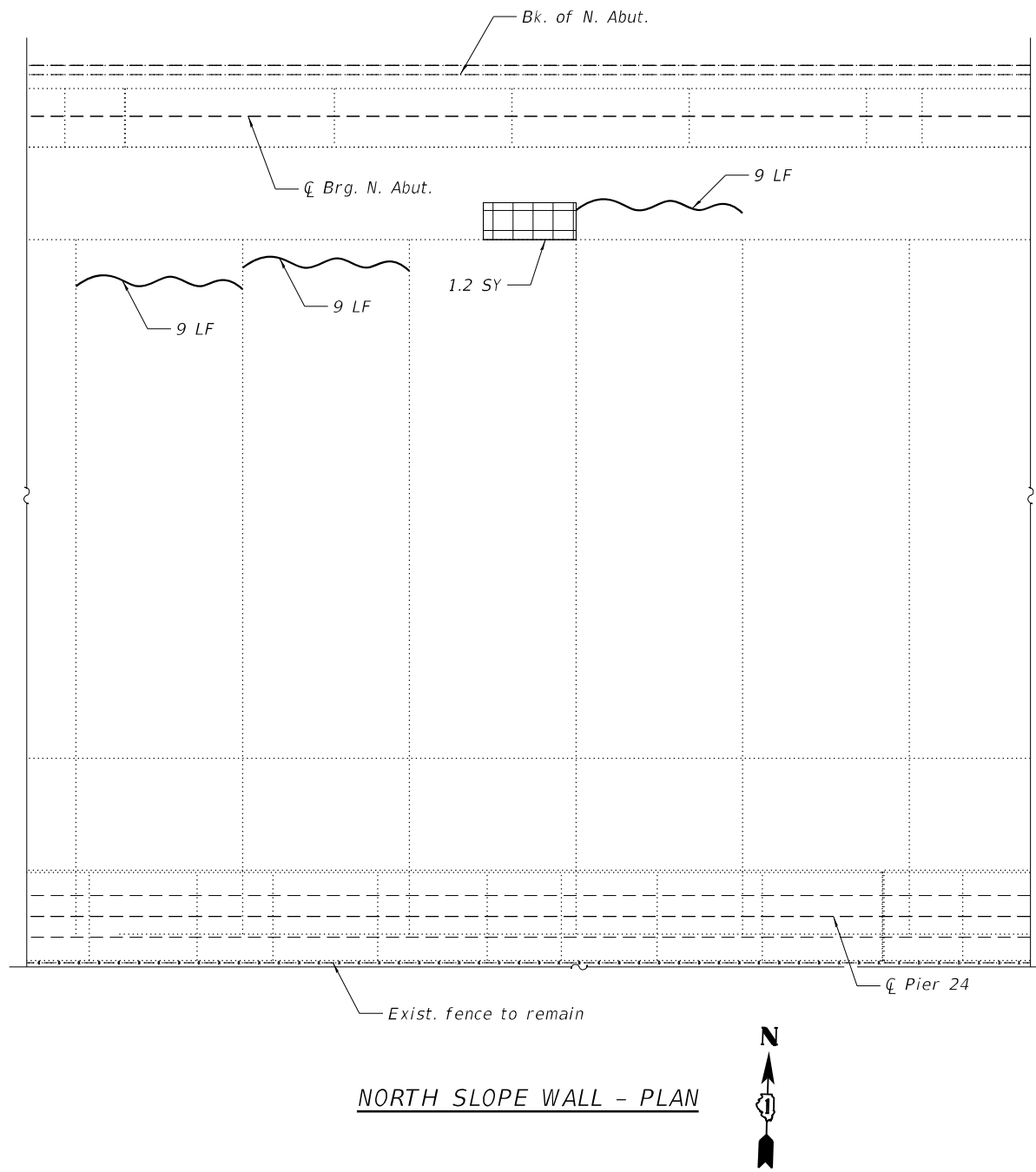
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 24 REPAIRS
STRUCTURE NO. 016-0133 (REV)**

SHEET S08-77 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	694
			CONTRACT NO. 62K74	
		ILLINOIS FED. AID PROJECT		

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NORTH SLOPE WALL - PLAN

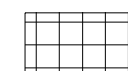
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Porous Granular Embankment	Cu Yd	0.4
Slope Wall Removal	Sq Yd	1.2
Slope Wall 4 Inch	Sq Yd	1.2
Slope Wall Crack Sealing	Foot	27

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

LEGEND



Slope Wall Removal and Replacement with 4 Inch Slope Wall

SY Square Yard



USER NAME =	DESIGNED - CP	REVISED -
	CHECKED - MAI	REVISED -
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PLOT DATE =	DATE - 9/13/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH SLOPEWALL REPAIRS
 STRUCTURE NO. 016-0133 (REV)

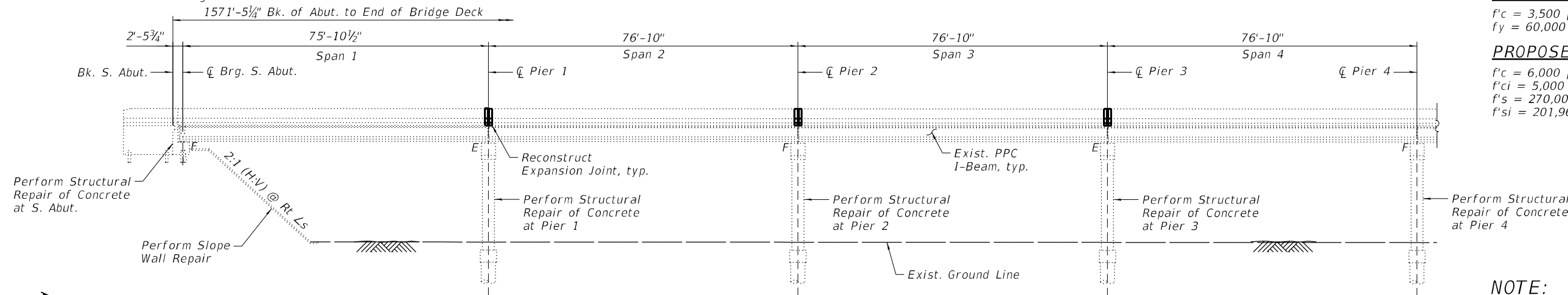
SHEET S08-78 OF S08-78 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2020-004-BR	COOK	1492	695
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K74	

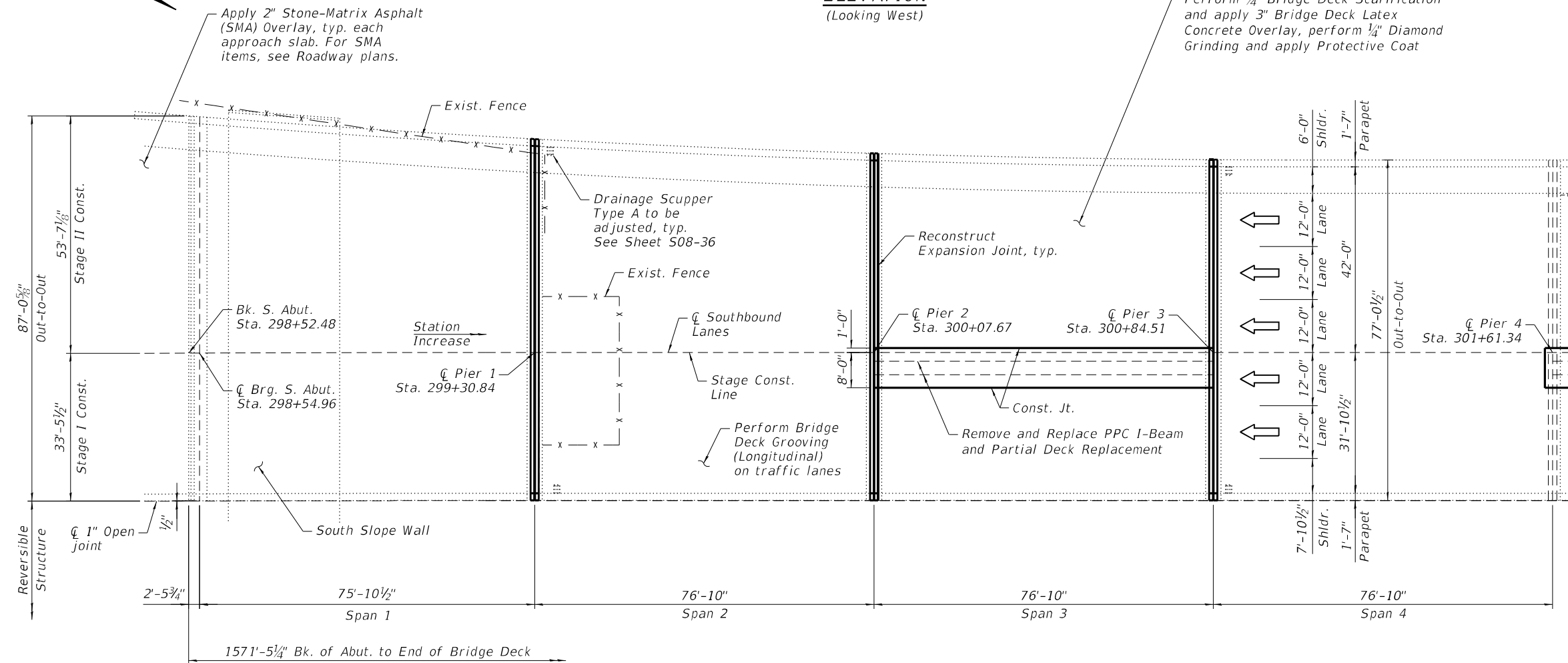
Existing Structure: S.N. 016-0133 was originally built in 1959 from BCR. In 1990, the existing substructures were repaired and widened. The superstructure and deck were widened in 1992, and in 2013 PPC I-Beam repairs, steel beam repairs, and expansion joint repairs were performed. The bridge consists of a total of 25 spans, typically comprised of a 7½" thick reinforced concrete deck supported on PPC I-beam simple spans, and steel girders with floorbeams and stringers in spans over Ashland Ave and Cortland St. The structure has a back-to-back abutment length of 1,571'-5¼" and an out-to-out deck width varying from 77'-0½" to 96'-7½". The superstructure is supported by reinforced concrete piers founded on caissons, and abutments founded on concrete piles.

Traffic will be maintained utilizing stage construction.

No salvage.



ELEVATION
(Looking West)



PLAN

LOADING
HS20-44 and alternate military loading

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specification for Highway Bridges, 17th Edition

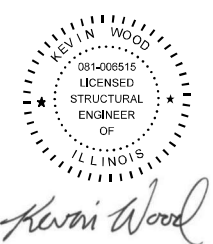
DESIGN STRESSES FIELD UNITS

$f'_c = 3,500$ psi (New)
 $f_y = 60,000$ psi (Reinforcement)

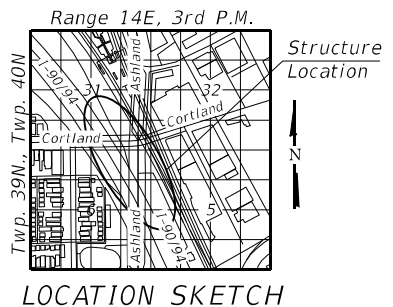
PROPOSED PRESTRESS UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f'_s = 270,000$ (½"Ø Lowlax strands)
 $f'_{si} = 201,960$ (½"Ø Lowlax strands)

NOTE:
1. All stations are to the C I-90/94 SB Roadway and taken from existing plans.



Engineer Full Name: Kevin Wood Date: 10-20-2022
Illinois Registered Engineer No. 081-006515
Registration Expires 11. 30, 2024



GENERAL PLAN AND ELEVATION
SB I-90 OVER ASHLAND AVE
F.A.I. SEC 2020-004-BR
COOK COUNTY
STATION: 308+28.51
STRUCTURE NO. 016-0133 (SB)

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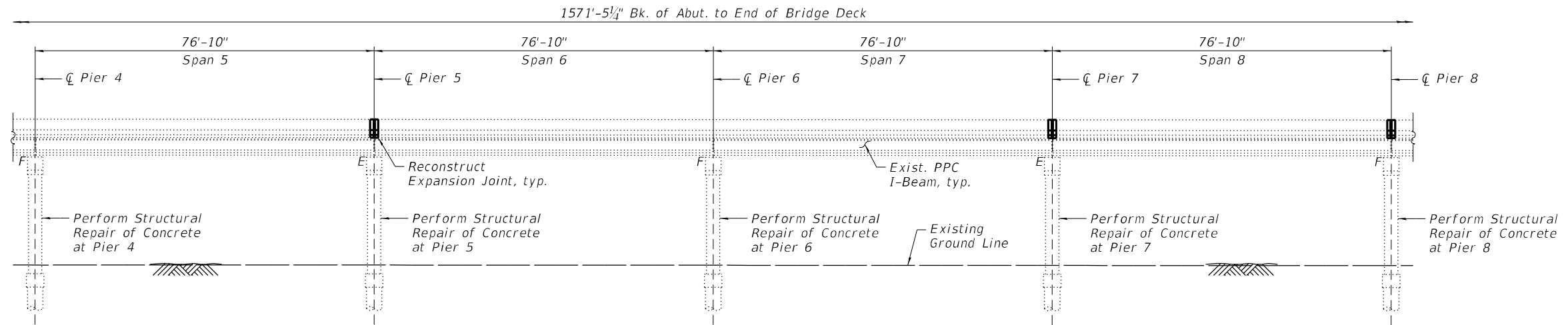


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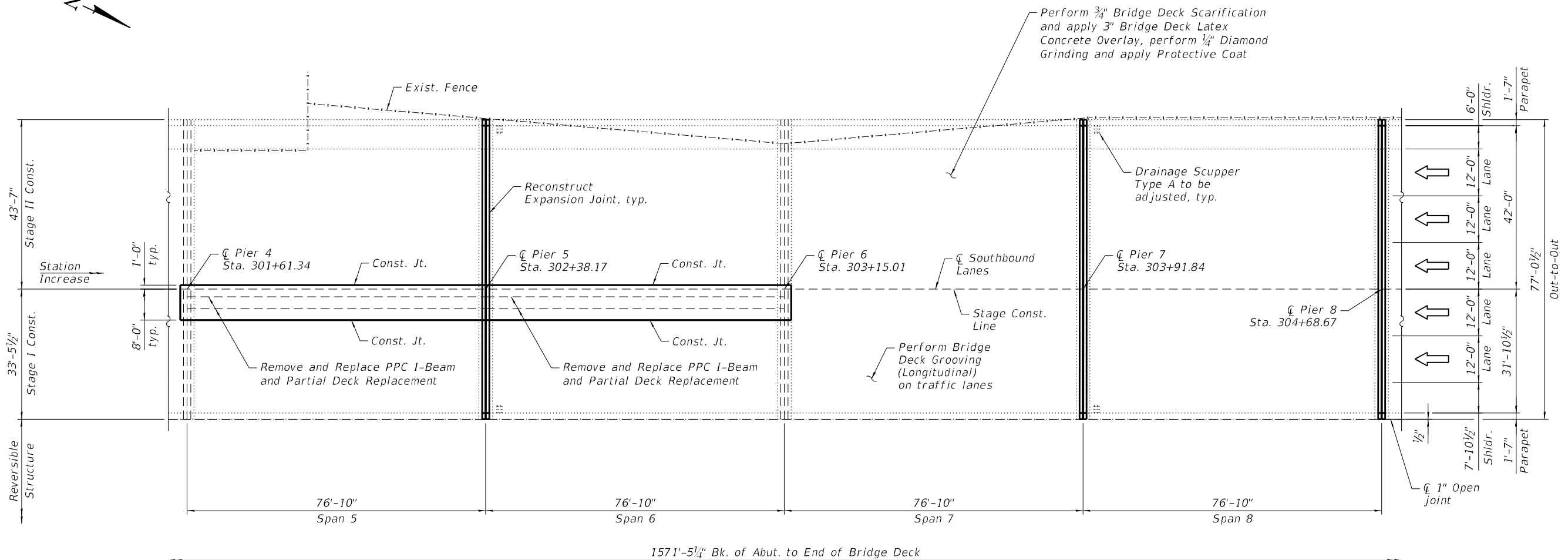
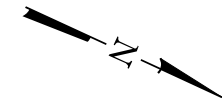
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S08-01 OF S08-138 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	696
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking West)



PLAN

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GR&EF
8501 N. Higgins Road, Suite 280
Chicago, Illinois 60631-3773 | 399-0112

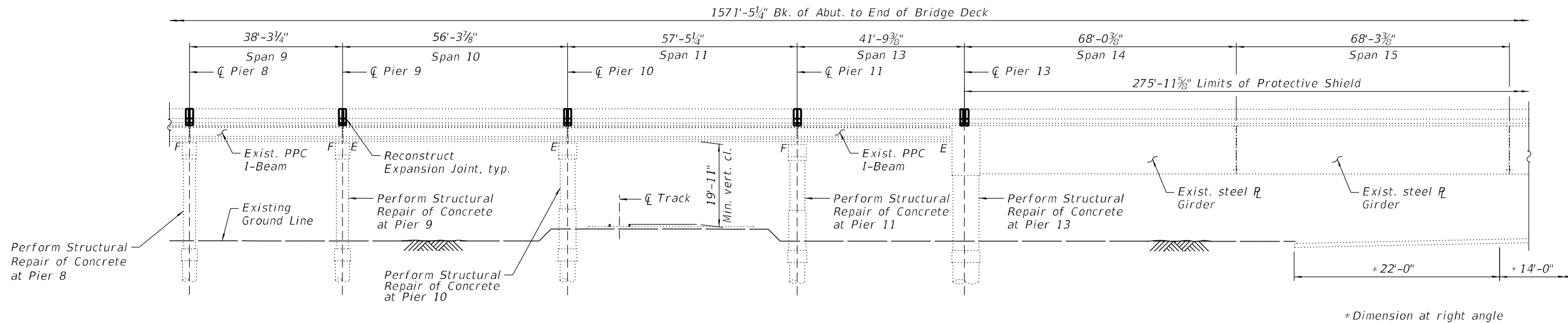
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

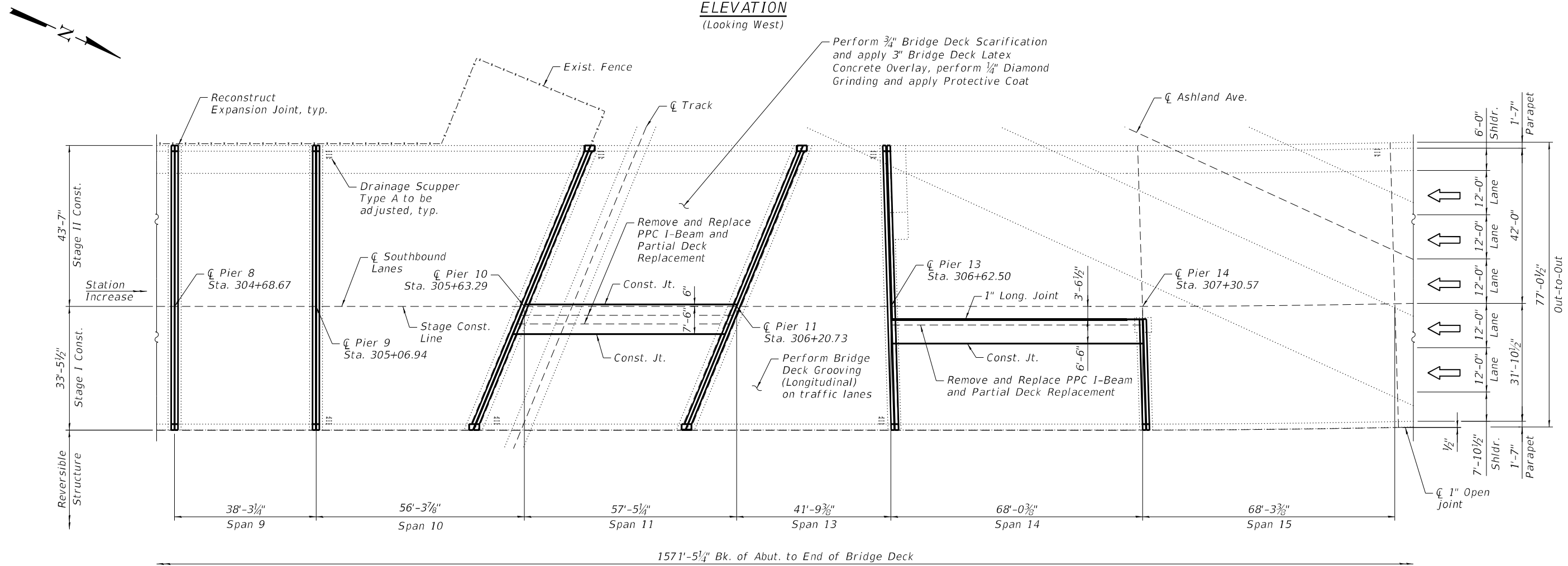
**GENERAL PLAN AND ELEVATION
SN 016-0133 (SB)**

SHEET S08-02 OF S08-138 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	697
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking West)



PLAN

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 Chicago, Illinois 60631-3773 399-0112

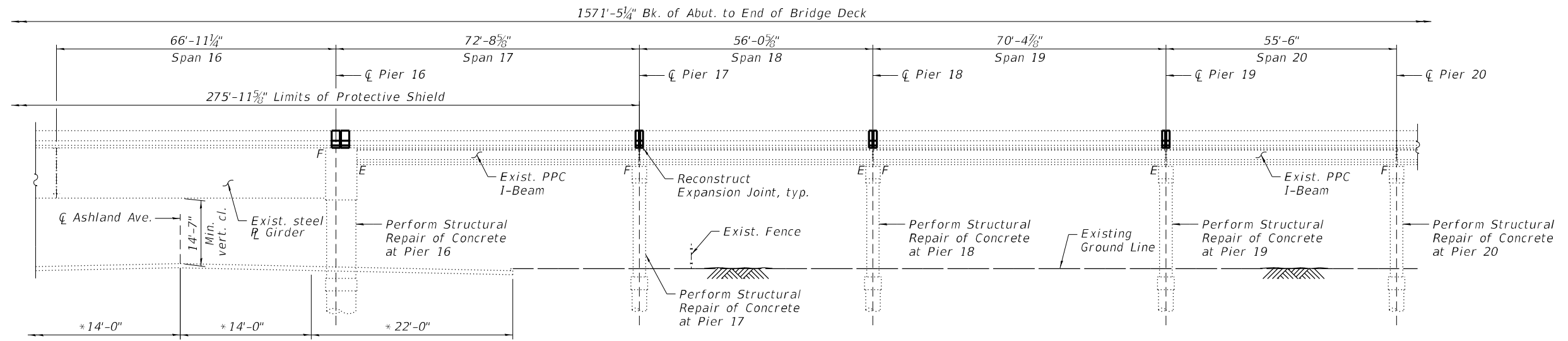
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

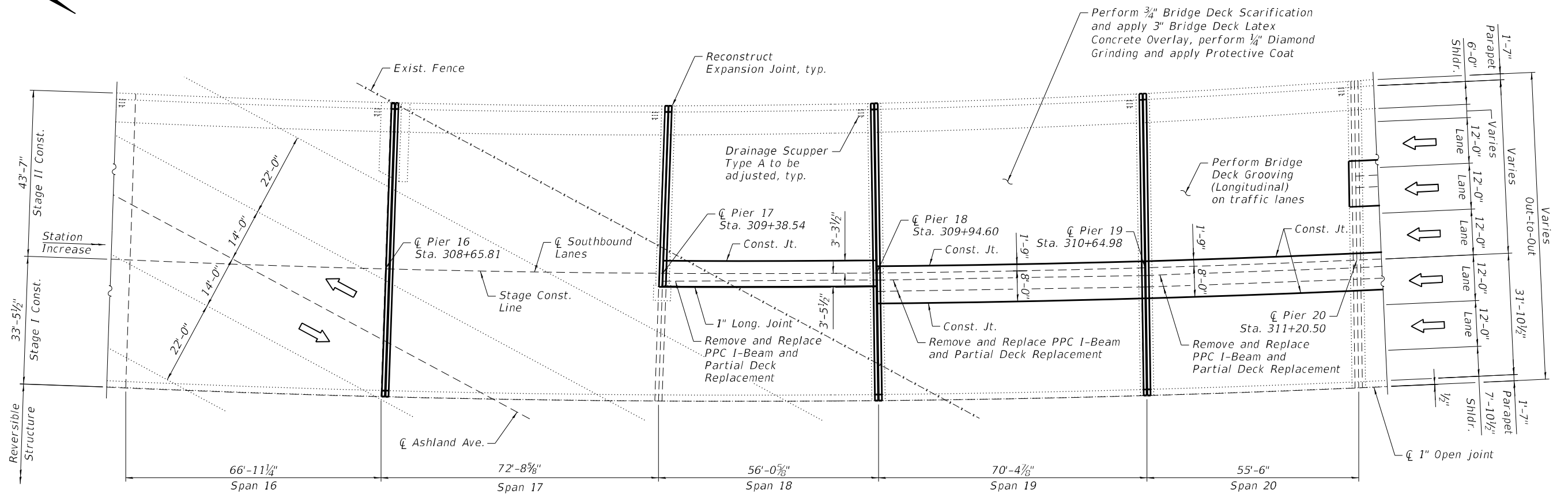
**GENERAL PLAN AND ELEVATION
SN 016-0133 (SB)**

SHEET S08-03 OF S08-138 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2020-004-BR	COOK	1492	698
CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking West)



PLAN

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GRAEF
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Chicago, Illinois 60631; (773) 399-0112

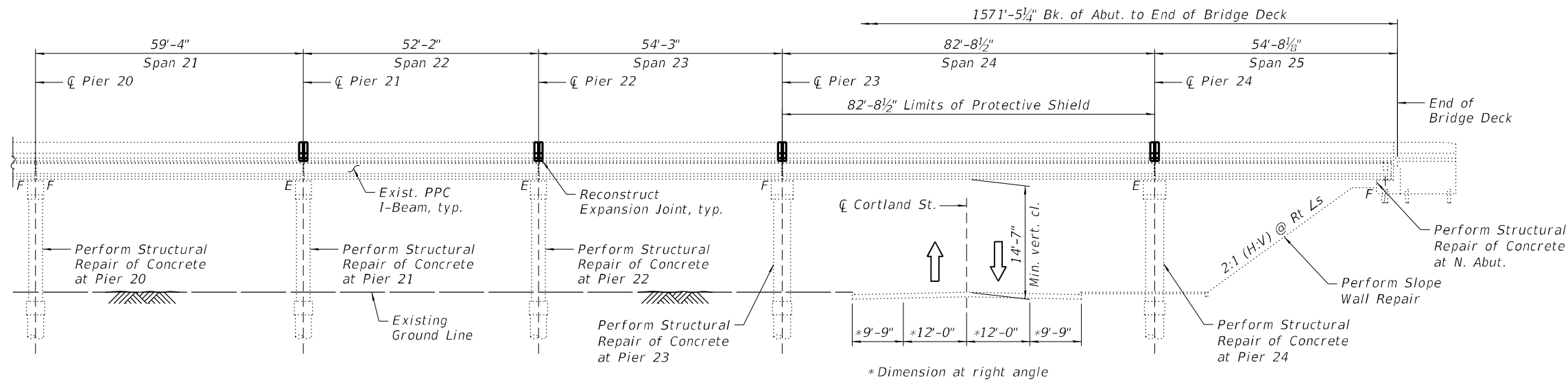
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

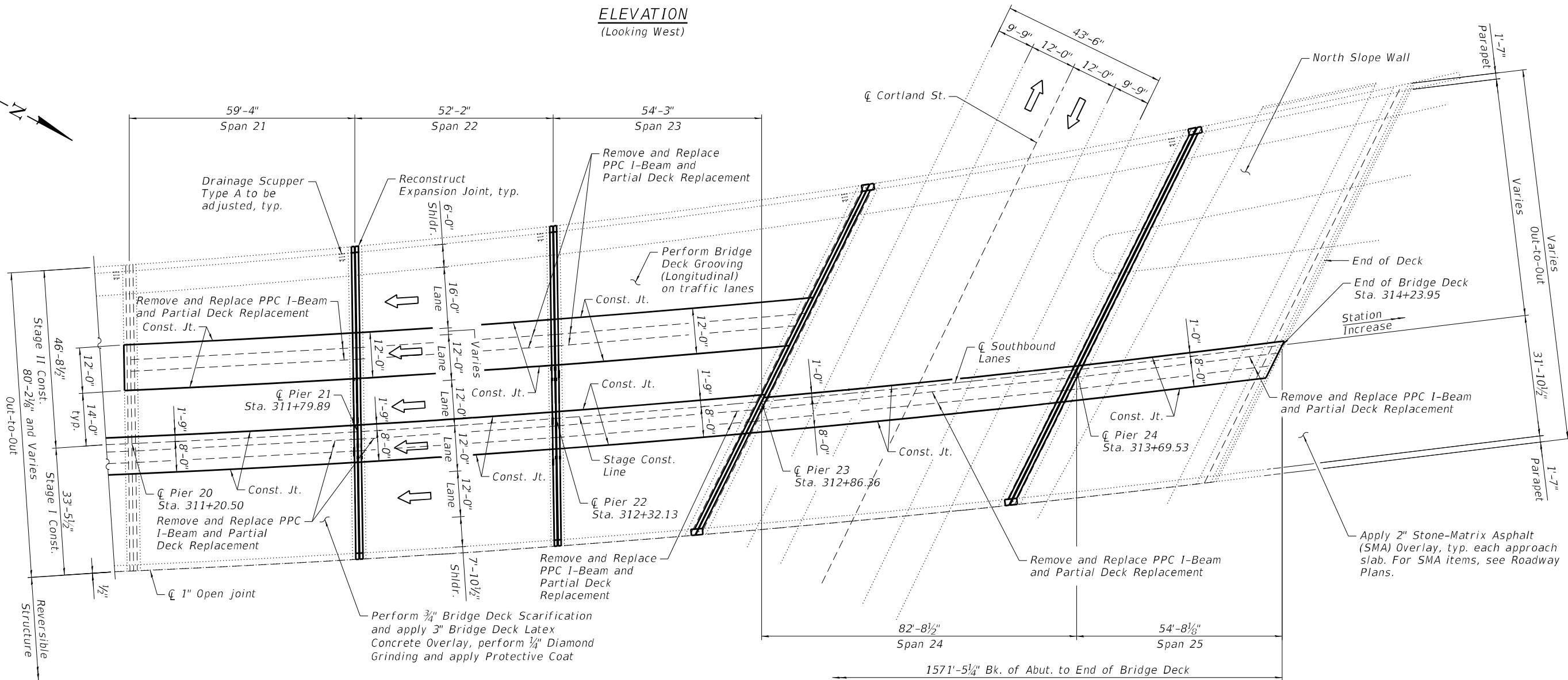
**GENERAL PLAN AND ELEVATION
SN 016-0133 (SB)**

SHEET S08-04 OF S08-138 SHEETS

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CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking West)



PLAN

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 Chicago, Illinois 60631; (773) 399-0112

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	CHECKED - K.G.W.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
SN 016-0133 (SB)
 SHEET S08-05 OF S08-138 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62K74				
ILLINOIS FED. AID PROJECT				