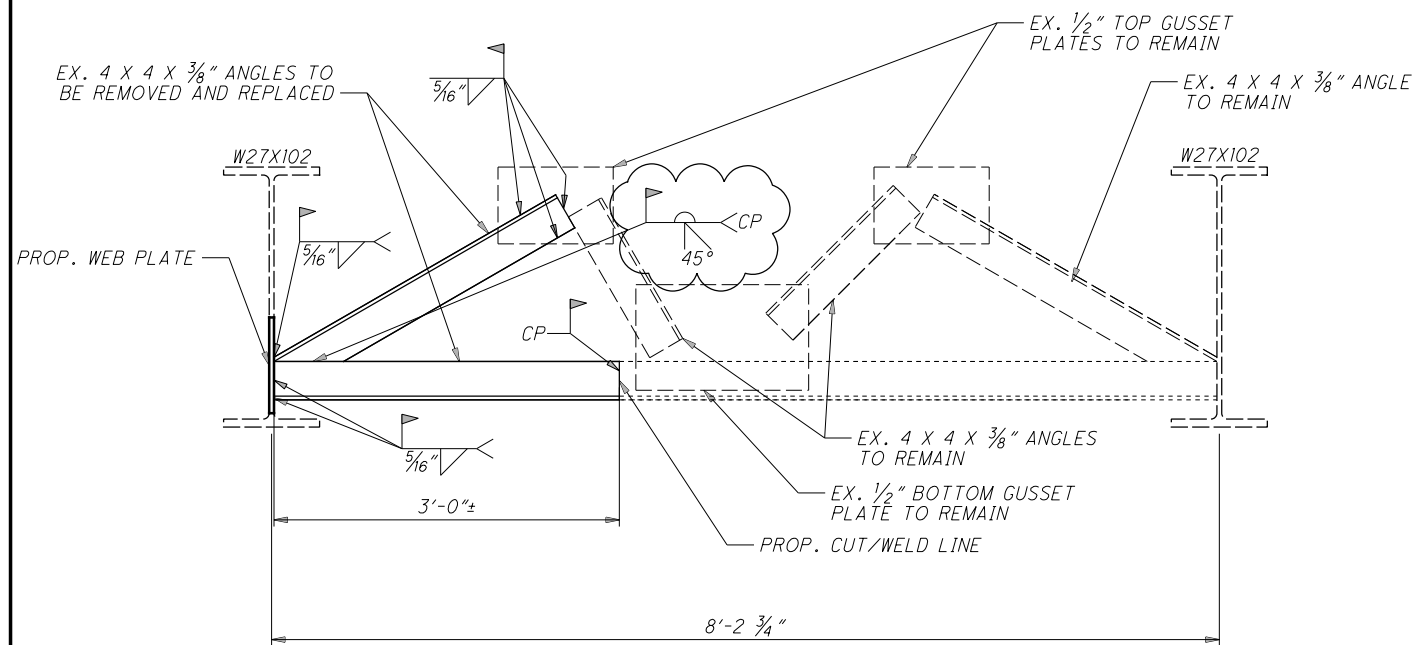
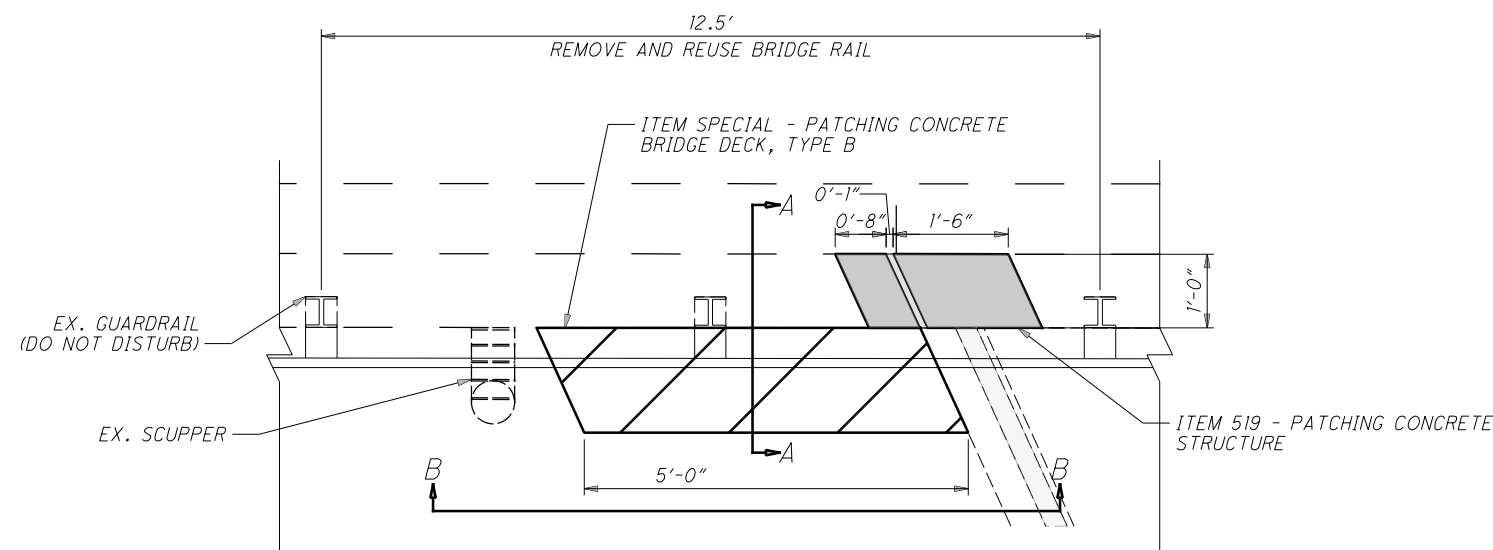


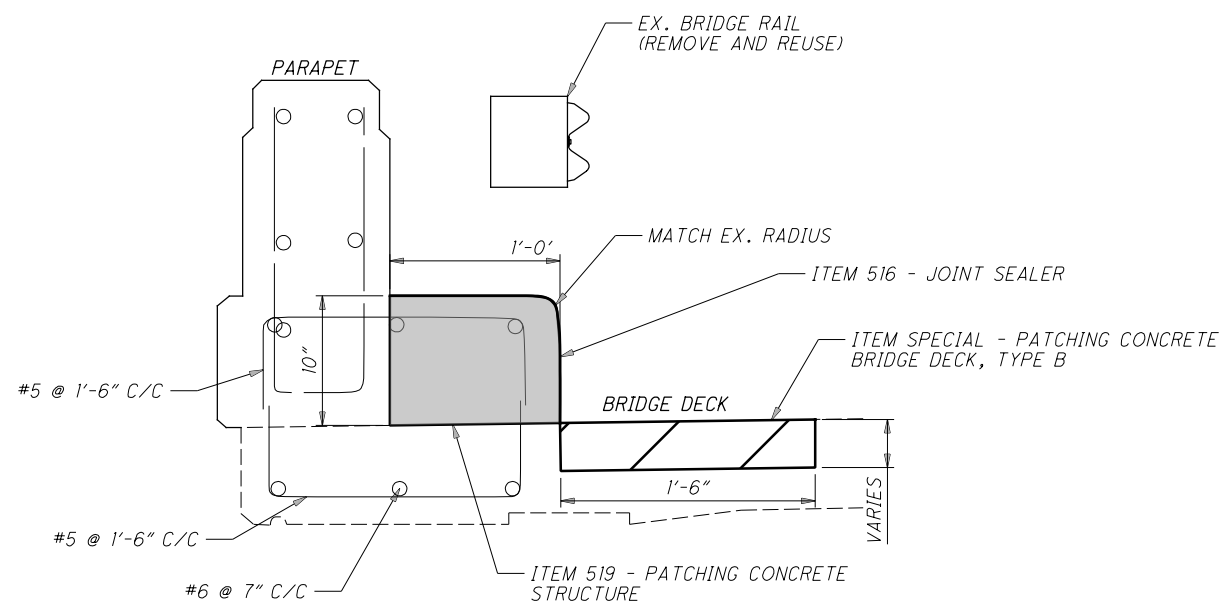
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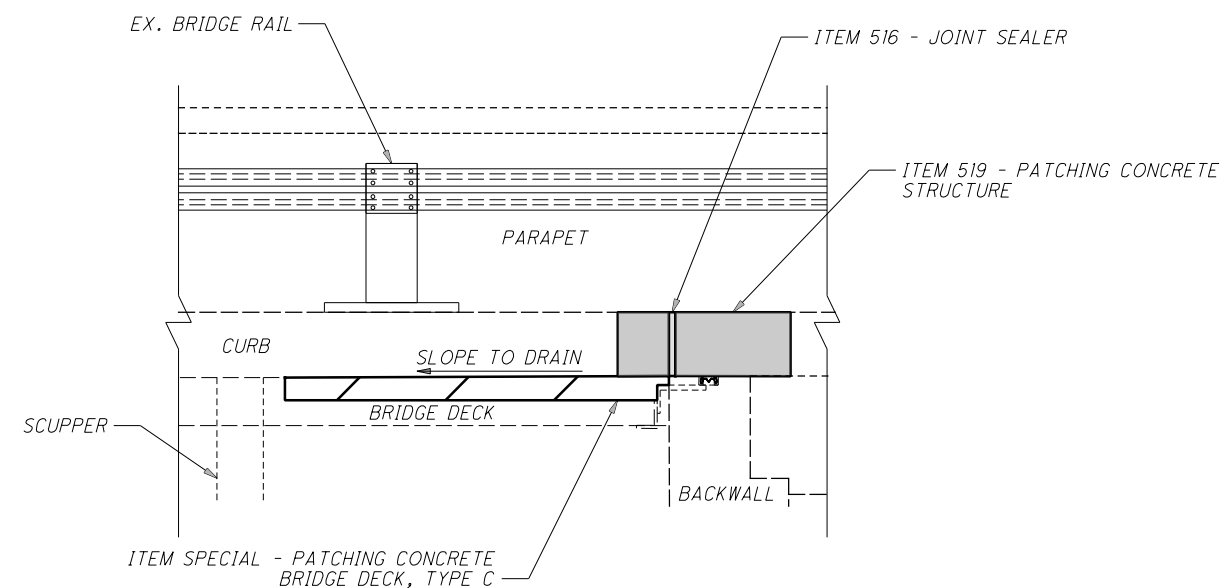
END CROSSFRAME DETAIL



CURB DETAIL



SECTION A-A

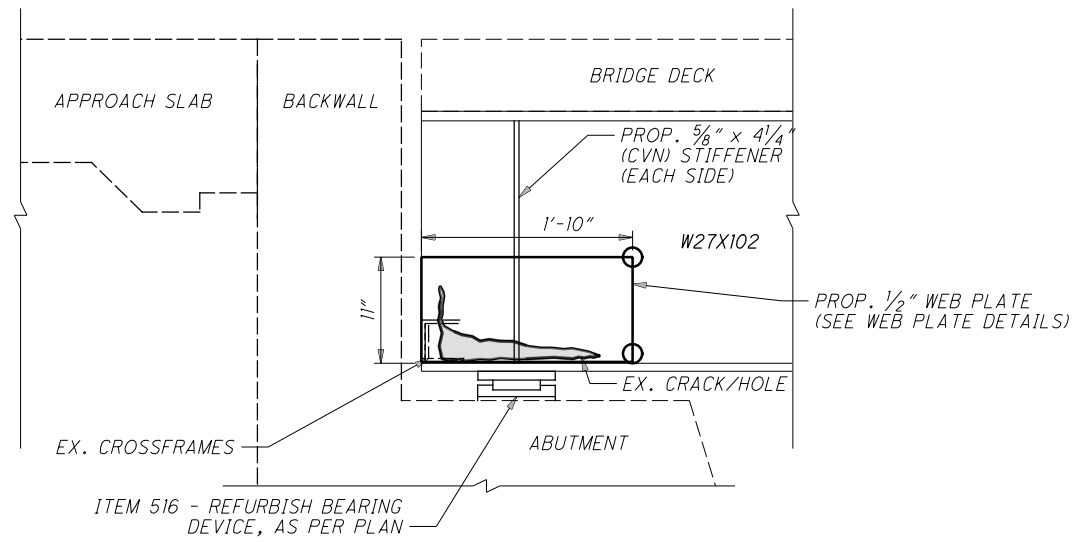


SECTION B-B

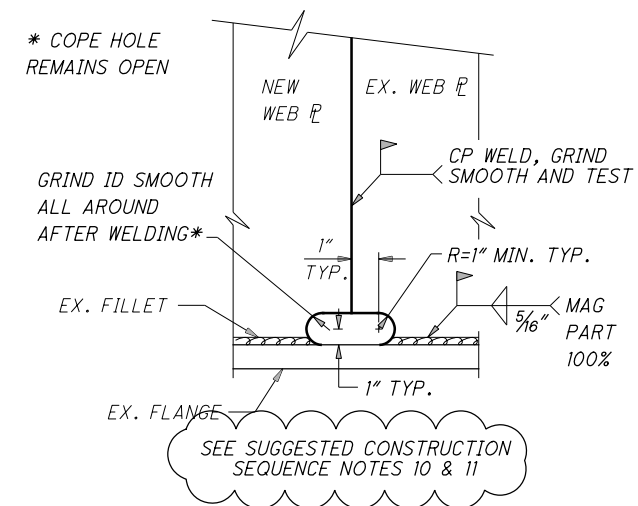
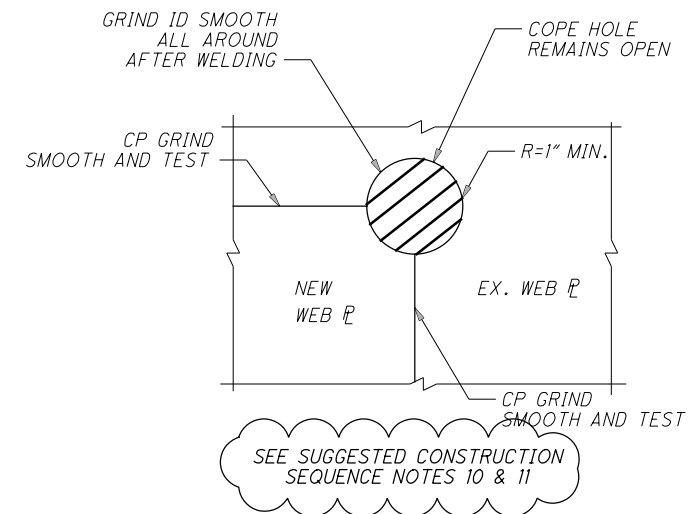
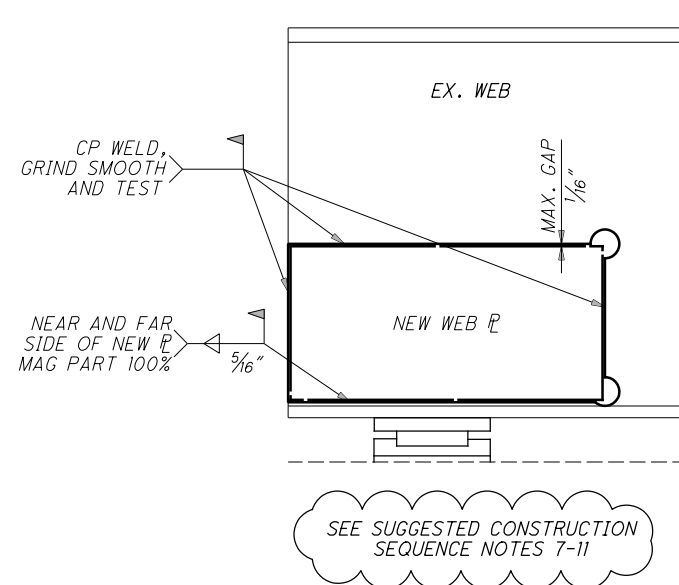
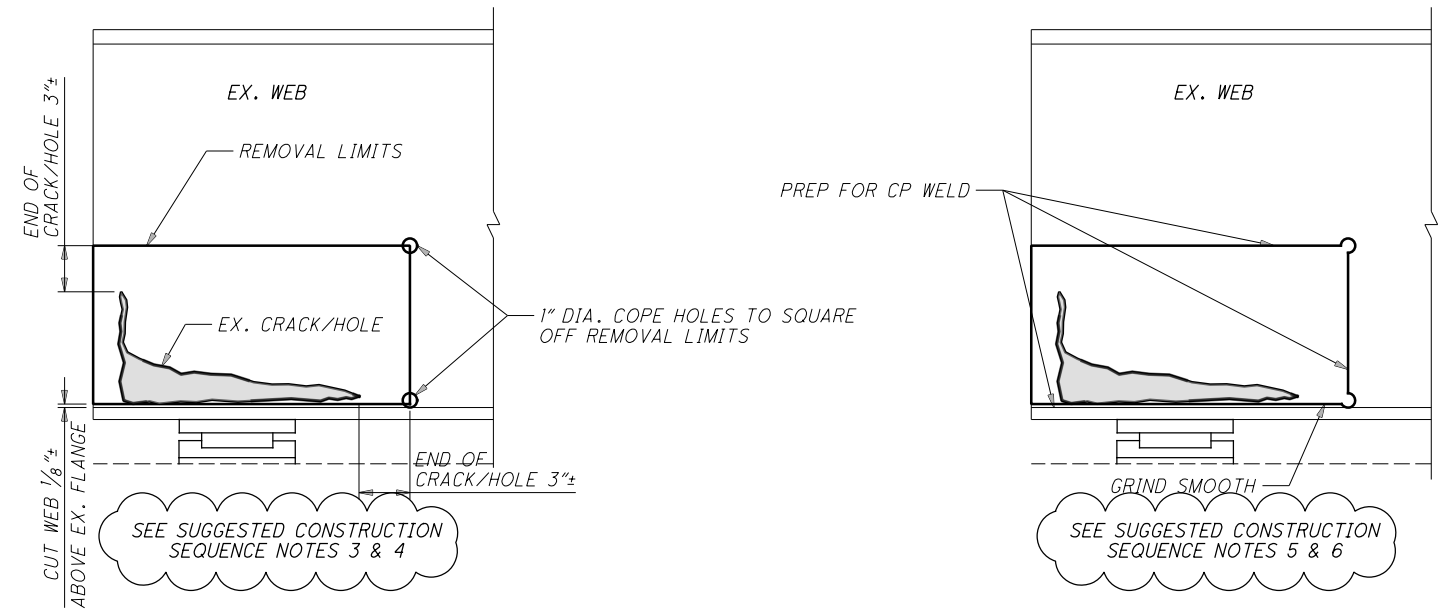
NOTES:

- 1.) EXISTING REINFORCING STEEL SHALL BE PRESERVED.
- 2.) FOR ADDITIONAL CROSSFRAME DETAILS, SEE STANDARD DRAWING GSD-I-96.

DESIGNED	JLL	CHECKED	KRB
DRAWN	JLL	REVISED	
REVIEWED	KAK	STRUCTURE FILE NUMBER	2202409
DATE	11/2020		
DESIGN AGENCY	ODOT DISTRICT THREE OFFICE OF ENGINEERING		
STRUCTURE DETAILS			
STRUCTURE ERI-13-3.67 OVER N&S RR			
D03-BH-FY2021(B)		PID No. 100081	
2 / 3		13 21	



FORWARD ABUTMENT DETAIL



WEB PLATE DETAILS
SEE SUGGESTED CONSTRUCTION SEQUENCE

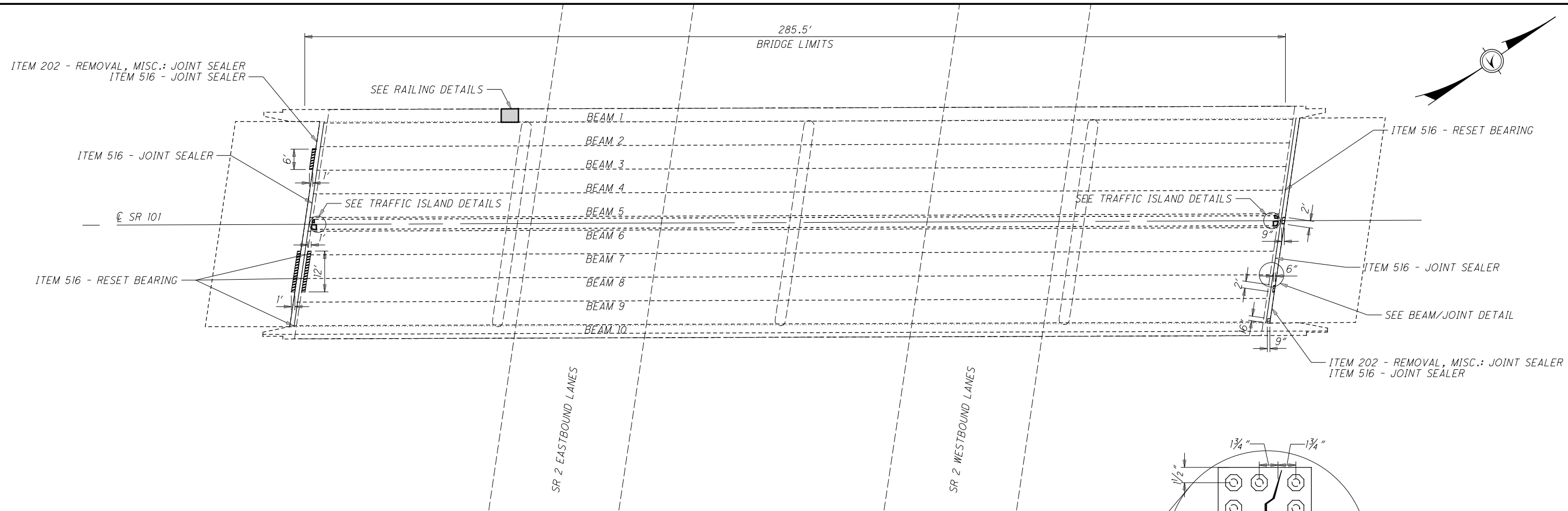
SUGGESTED CONSTRUCTION SEQUENCE

- 1.) SET UP TEMPORARY SUPPORT.
- 2.) REMOVE PORTIONS OF END CROSSFRAME FOR ACCESS.
- 3.) MARK REMOVAL AREA - DETERMINE LIMITS USING MAGNETIC PARTICLE TESTING.
- 4.) DRILL 2 CORNER HOLES 1" DIAMETER.
- 5.) SAW OR FLAME CUT TO REMOVED DAMAGED WEB PLATE USING A MECHANICAL GUIDE.
- 6.) PREP EXISTING MEMBER, BEVEL EDGES FOR COMPLETE PENETRATION AND FILLET WELDS.
- 7.) CUT AND BEVEL NEW PLATE, FOR COMPLETE PENETRATION AND FILLET WELDS.
- 8.) CHECK FIT OF NEW PLATE, NO GAPS EXCEEDING 1/16".
- 9.) PERFORM WELDING - COORDINATE WITH TEMPORARY SUPPORT OF BEAM AS NEEDED.
- 10.) GRIND WELDS SMOOTH AND PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL.
- 11.) GRIND THE INSIDE SURFACE OF ALL DRILLED CORNER HOLES TO A 1" RADIUS AND PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL.
- 12.) INSTALL NEW STIFFENER PLATES AND PROPERLY TEST FILLET WELDS.
- 13.) REMOVE TEMPORARY SUPPORT.

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DESIGN AGENCY ODOT DISTRICT THREE OFFICE OF ENGINEERING	
REVIEWED KAK	DATE 11/2020
DRAWN JLL	STRUCTURE FILE NUMBER 2202409
DESIGNED JLL	CHECKED KRB
STRUCTURE DETAILS STRUCTURE ERI-13-3.67 OVER N&S RR	
D03-BH-FY2021(B) PID No. 100081	
3 / 3	
14 21	

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- ITEM 517 - RAILING, MISC.: ALUMINUM RAILING AND POST (SEE SHEET 16)
- ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B

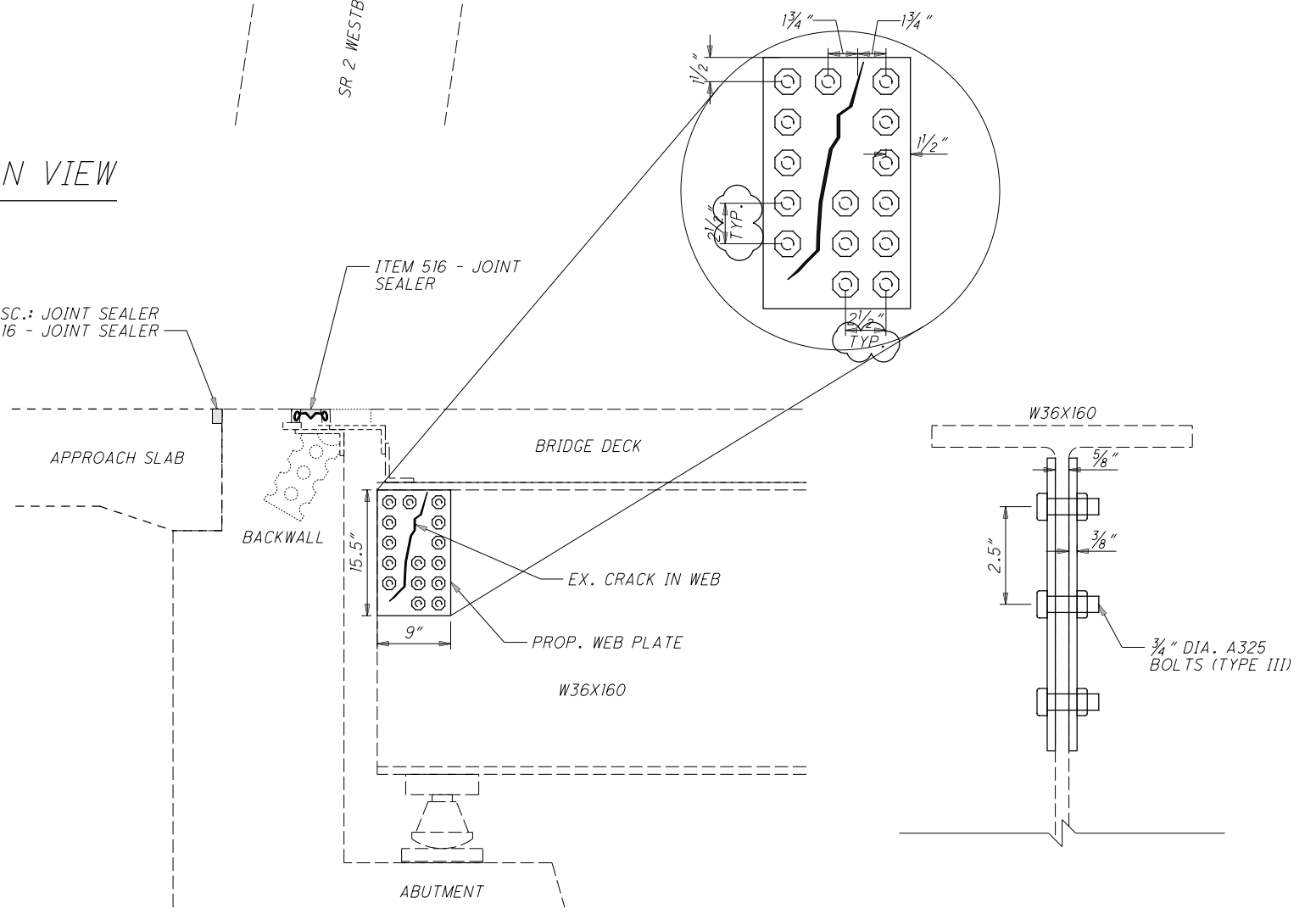
NOTES

- 1.) RESET BEARING #4 ON THE FORWARD ABUTMENT, AND BEARINGS #7, #8 AND #10 ON THE REAR ABUTMENT. SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.
- 2.) THE WORK AT THE ARMORED DECK JOINTS CONSISTS OF THE PLACEMENT OF HOT APPLIED JOINT SEALER OVER THE EXISTING ELASTOMERIC STRIP SEAL USING ITEM 516 - JOINT SEALER. EXISTING JOINT STEEL IS NOT TO BE REPLACED OR MODIFIED.
- 3.) CONCRETE REPAIR LOCATIONS ARE FOR REFERENCE USE ONLY. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- 4.) EXISTING REINFORCING STEEL SHALL BE PRESERVED.
- 5.) SEE SHEET 16 FOR TRAFFIC ISLAND AND RAIL DETAILS.

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
202	120	FT	REMOVAL, MISC.: JOINT SEALER
513	30	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN
516	240	FT	JOINT SEALER
516	4	EACH	RESET BEARING
516	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
517	1	EACH	RAILING, MISC.: ALUMINUM RAILING AND POST
519	5	SF	PATCHING CONCRETE STRUCTURE
SPECIAL	2	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B

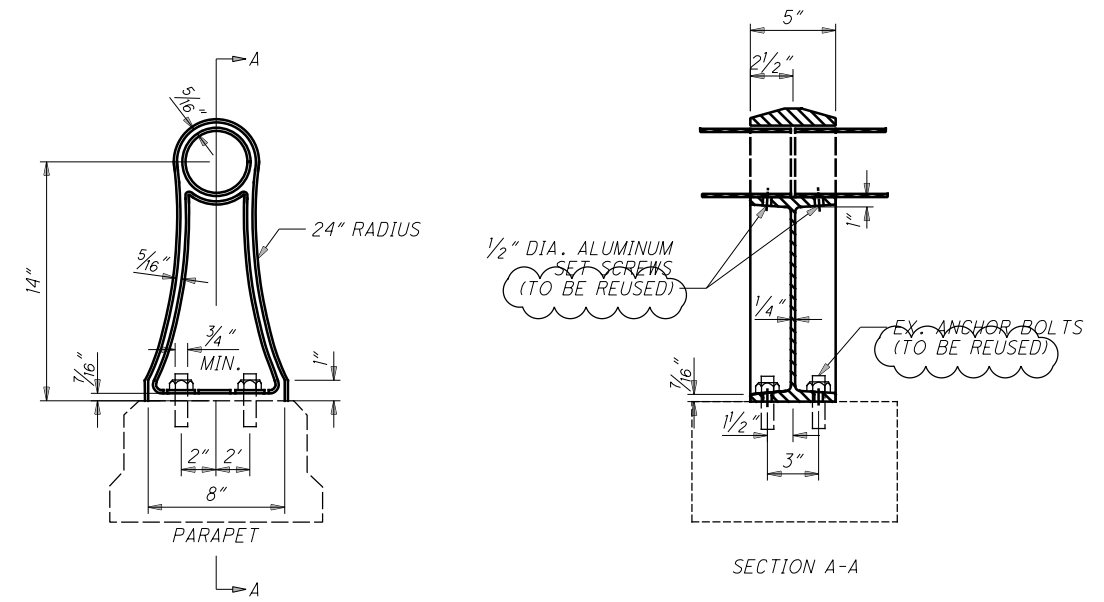
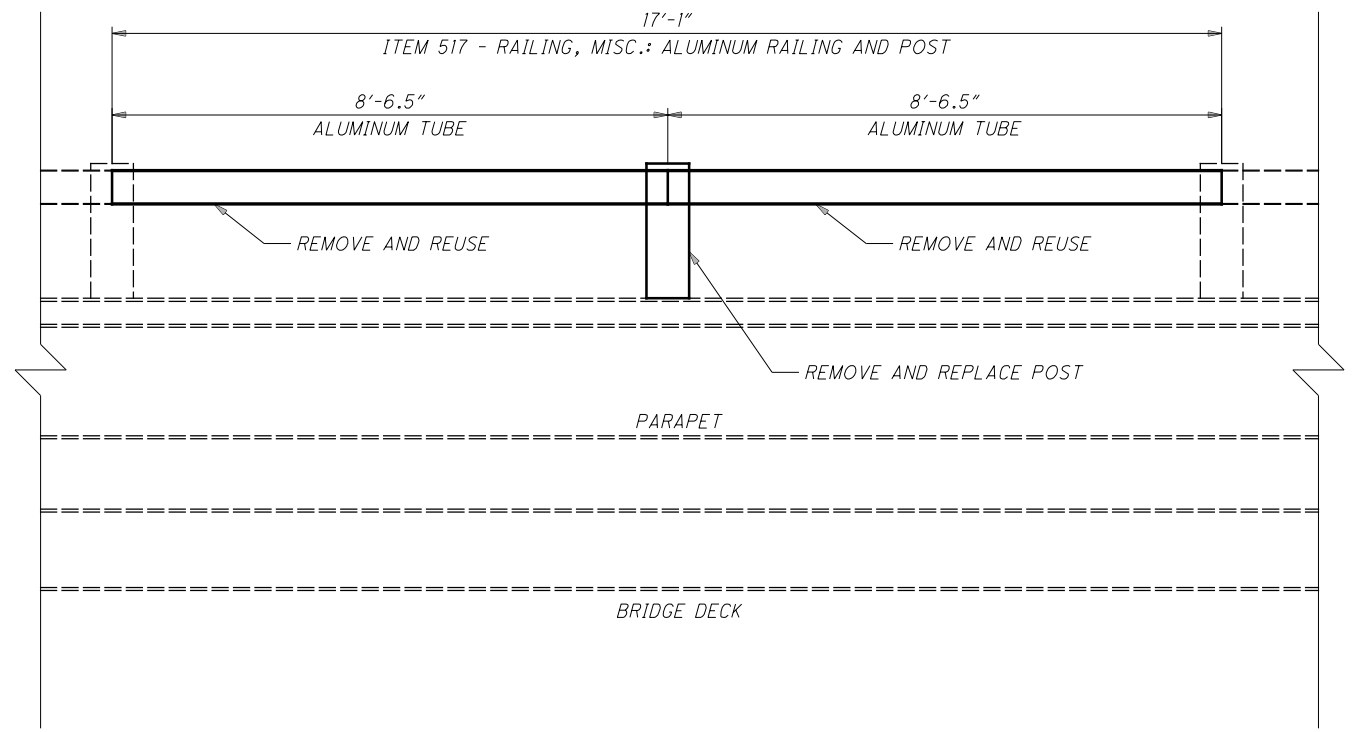
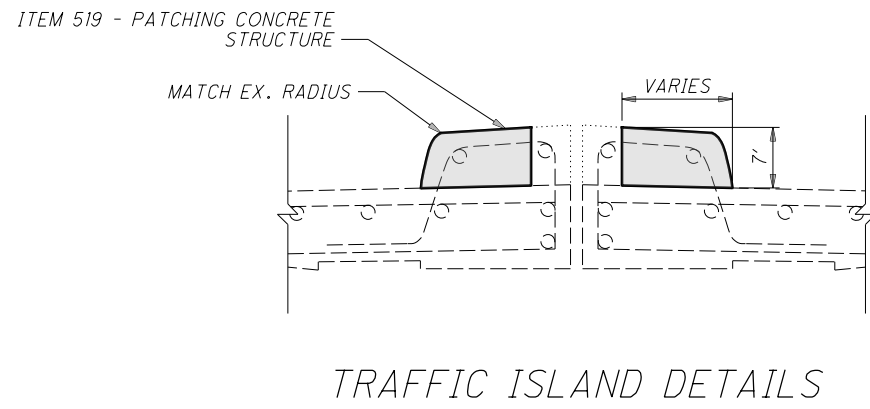
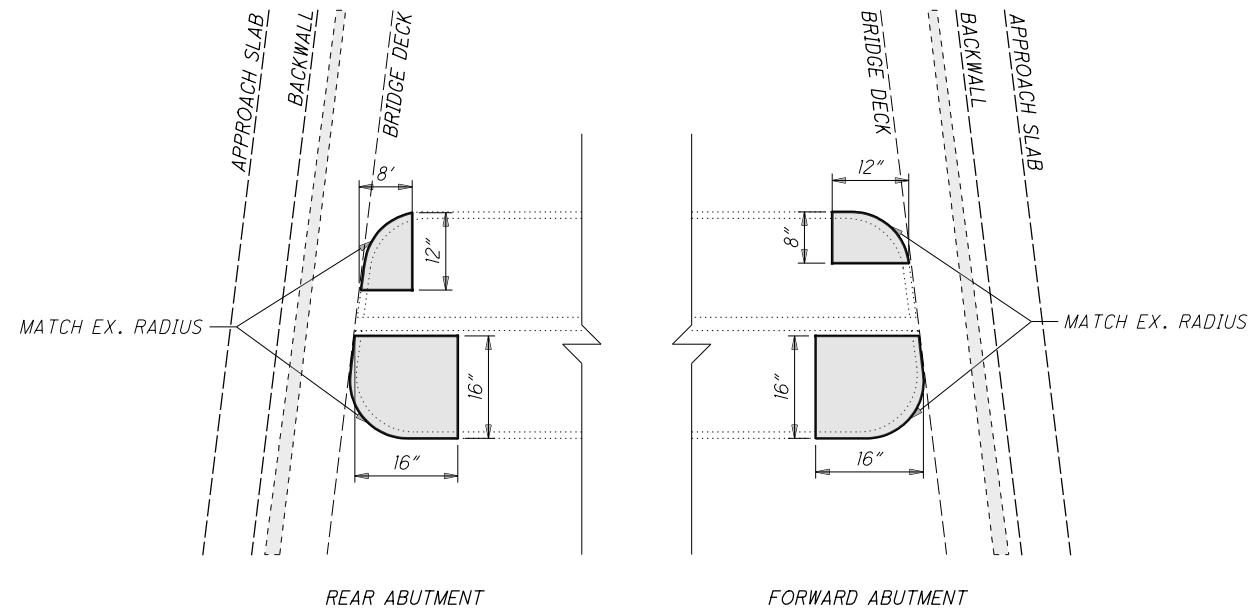
ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY

PLAN VIEW



BEAM/JOINT DETAIL

DESIGN AGENCY ODOT DISTRICT THREE OFFICE OF ENGINEERING
DATE 11/2020
REVIEWED KAK
DRAWN JLL
DESIGNED JLL
CHECKED KRB
STRUCTURE FILE NUMBER 2202824
STRUCTURE DETAILS STRUCTURE ERI-101-6.20 OVER ERI-2-6.24
D03-BH-FY2021(B) PID No. 100081
1 / 2
15 21



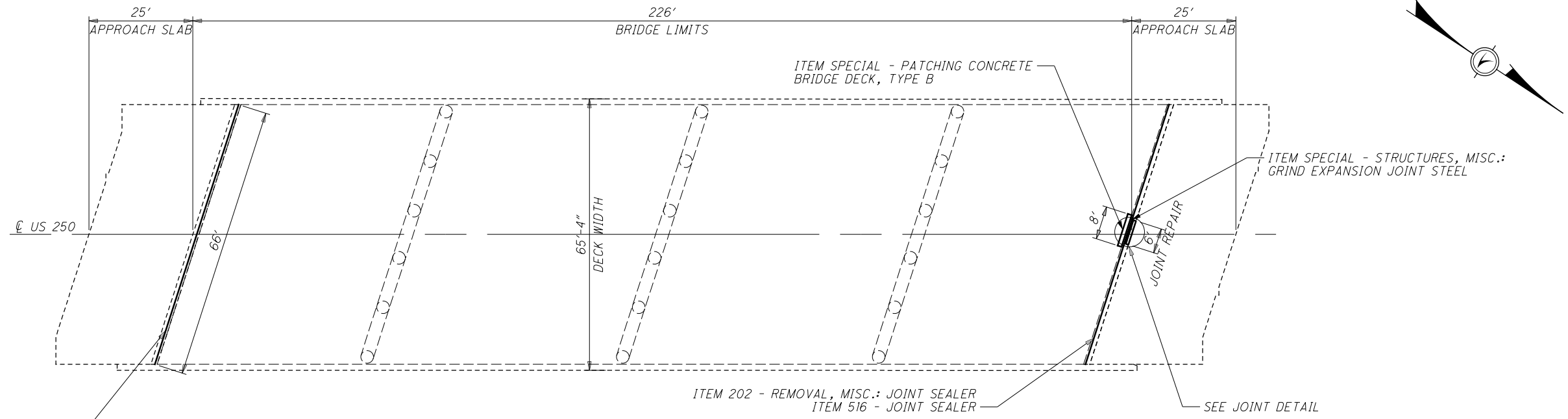
NOTES:

- 1.) CONCRETE REPAIR LOCATIONS ARE FOR REFERENCE USE ONLY. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- 2.) EXISTING REINFORCING STEEL SHALL BE PRESERVED.
- 3.) REMOVE AND REPLACE BROKEN RAILING POST USING ITEM 517 - RAILING, MISC.: ALUMINUM RAILING AND POST. IN ORDER TO REMOVE THE EXISTING RAILING POST, REMOVE AND REUSE TWO ADJACENT ALUMINUM TUBING PANELS. FABRICATE A REPLACEMENT ALUMINUM POST AS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH C&MS 517.

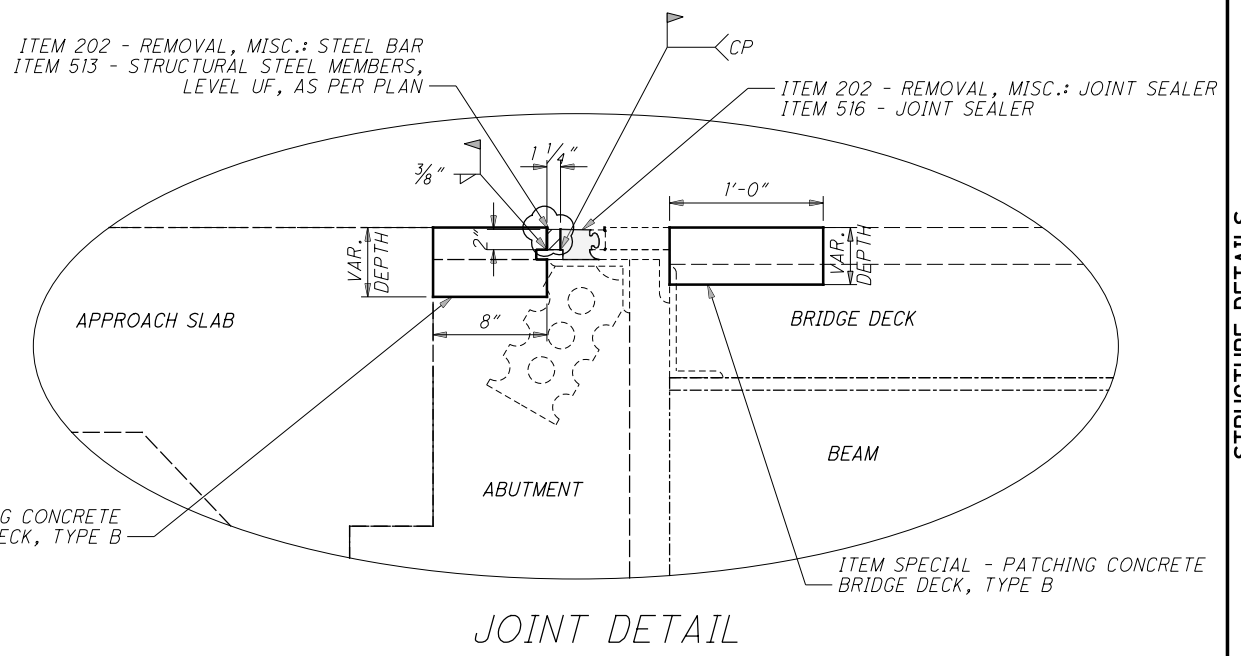
RAIL DETAIL

DESIGN AGENCY ODOT DISTRICT THREE OFFICE OF ENGINEERING	
REVIEWED KAK	DATE 11/2020
DRAWN JLL	STRUCTURE FILE NUMBER 2202824
DESIGNED JLL	CHECKED KRB
STRUCTURE DETAILS STRUCTURE ERI-101-6.20 OVER ERI-2-6.24	
D03-BH-FY2021(B) PID No. 100081	
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16 21	

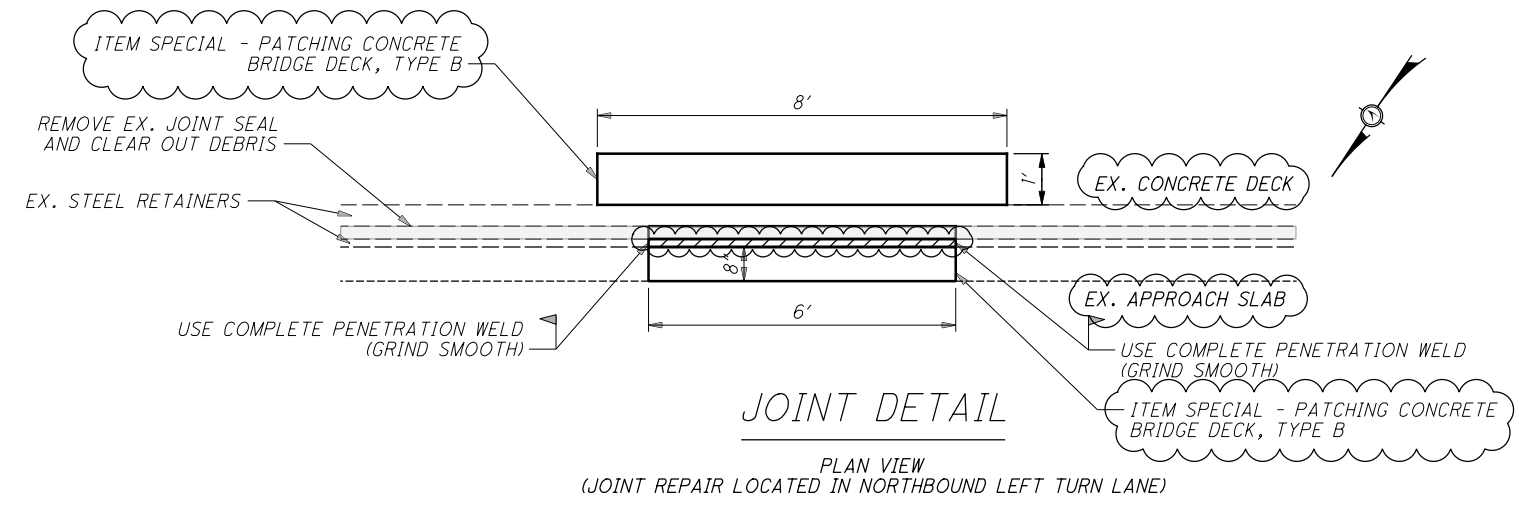
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PLAN VIEW



JOINT DETAIL



JOINT DETAIL
PLAN VIEW
(JOINT REPAIR LOCATED IN NORTHBOUND LEFT TURN LANE)

ITEM 202 - REMOVAL, MISC.: JOINT SEALER
ITEM 516 - JOINT SEALER

NOTES

- 1.) REMOVE AND REPLACE THE EXISTING EXPANSION JOINT STEEL BAR OF THE SAME SQUARE DIMENSIONS. APPROXIMATE DIMENSIONS ARE SHOWN ON THIS PLAN. VERIFY THESE DIMENSIONS IN THE FIELD AND ADJUST ACCORDINGLY IF NECESSARY. PERFORM ALL STEEL WORK ON THE APPROACH SLAB SIDE OF THE JOINT ONLY.
- 2.) EXISTING REINFORCING STEEL SHALL BE PRESERVED.
- 3.) USING ITEM 530 - SPECIAL - STRUCTURES, MISC.: GRIND EXPANSION JOINT STEEL, GRIND DOWN SHARP EDGES AT SECTIONS OF THE EXISTING EXPANSION JOINT STEEL TO SMOOTHEN SURFACE. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
202	132	FT	REMOVAL, MISC.: JOINT SEALER
202	6	FT	REMOVAL, MISC.: STEEL BAR
513	51	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN
516	132	FT	JOINT SEALER
SPECIAL	LS		STRUCTURES, MISC.: GRIND EXPANSION JOINT STEEL
SPECIAL	1	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B

ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY

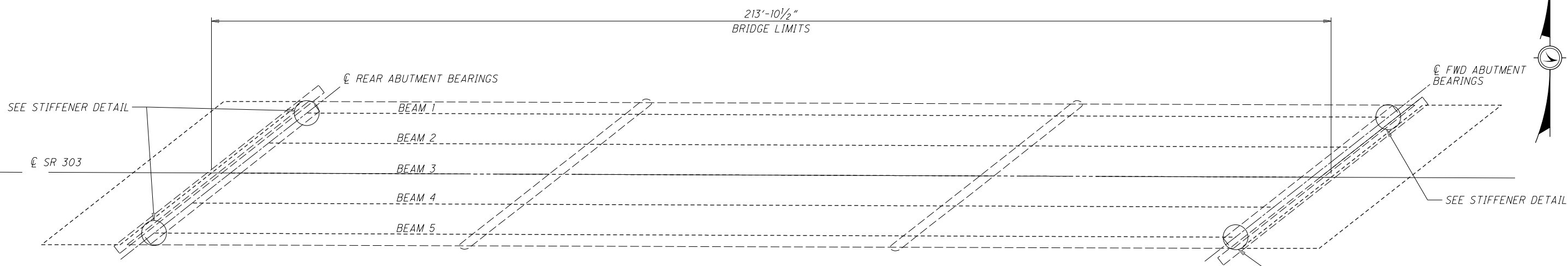
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DESIGN AGENCY
ODOT DISTRICT THREE
OFFICE OF ENGINEERING

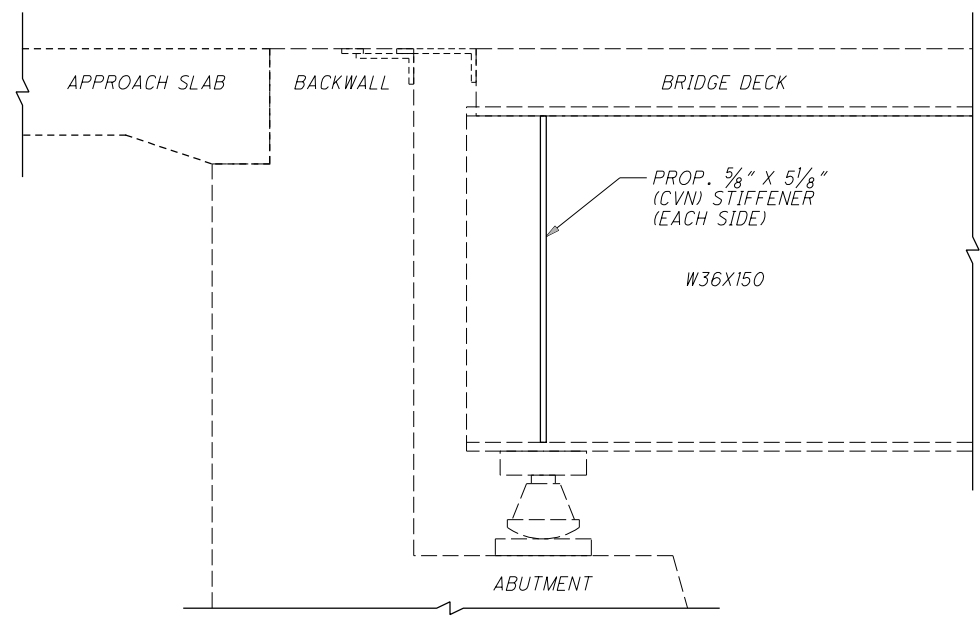
DATE
11/2020
REVIEWED
KAK
DRAWN
JLL
DESIGNED
JLL
CHECKED
KRB

STRUCTURE DETAILS
STRUCTURE HUR-250-4.92
OVER HUR-20-13.49

D03-BH-FY2021(B)
PID No. 100081



PLAN VIEW



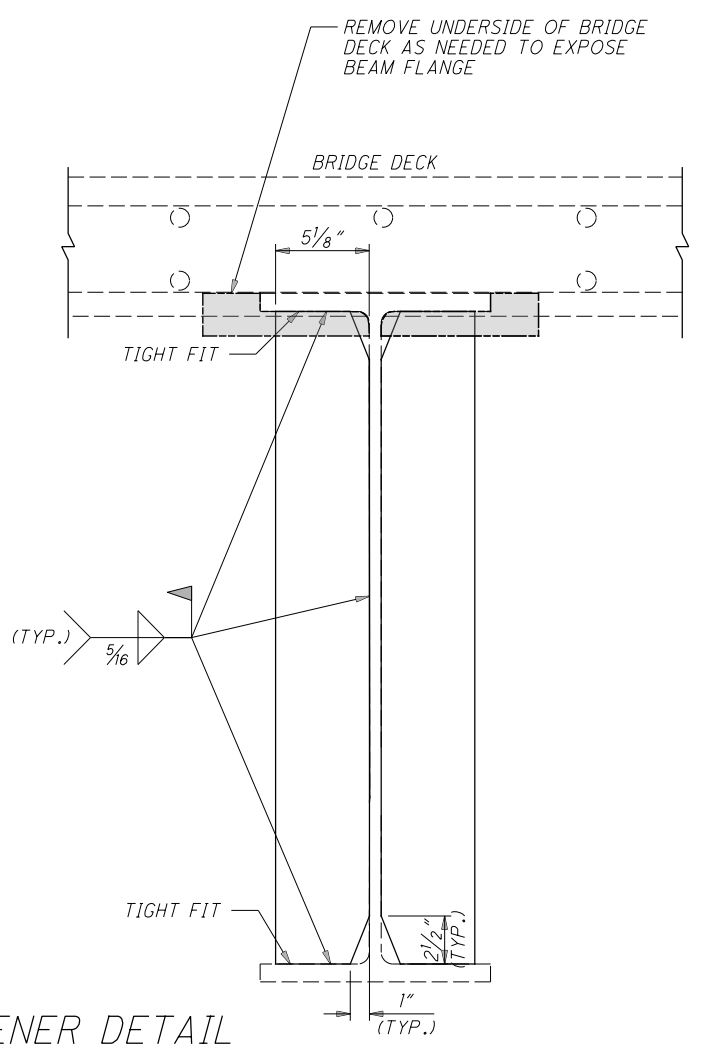
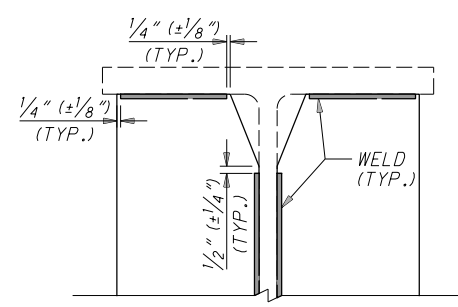
BEAM DETAIL
BOTH ABUTMENTS SIMILAR

NOTES

- 1.) USING ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN, REMOVE PORTIONS OF THE UNDERSIDE OF THE EXISTING BRIDGE DECK AS NEEDED TO EXPOSE THE TOP BEAM FLANGE.
- 2.) EXISTING REINFORCING STEEL SHALL BE PRESERVED.
- 3.) THE CONTRACTOR SHALL FIELD FABRICATE STIFFENER PLATES TO MATCH THE CONTOURS OF THE EXISTING BEAM WEB, WHERE APPLICABLE.
- 4.) CVN: WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN C&MS 711.01.
- 5.) SEE SHEET 19 FOR FORWARD BEAM 5 WEB AND STIFFENER DETAILS.
- 6.) TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES USING A SIGNALIZED CLOSURE. SEE SHEET 20 FOR MOT DETAILS.

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
202	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
513	265	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN
516	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY

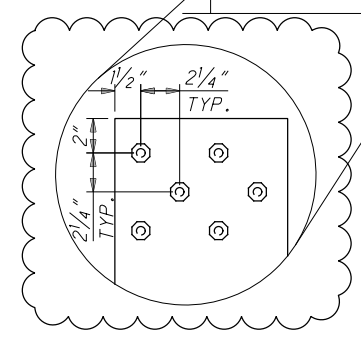
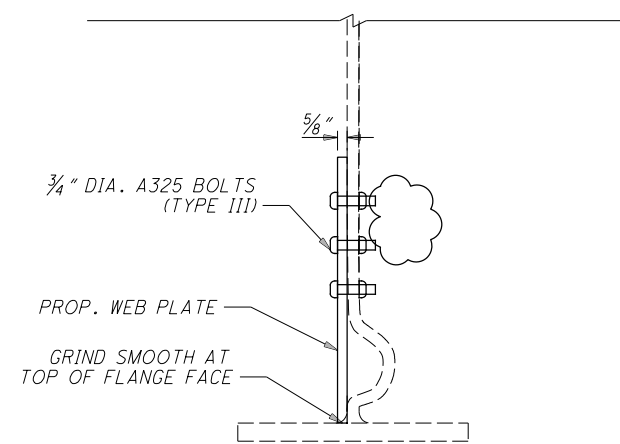
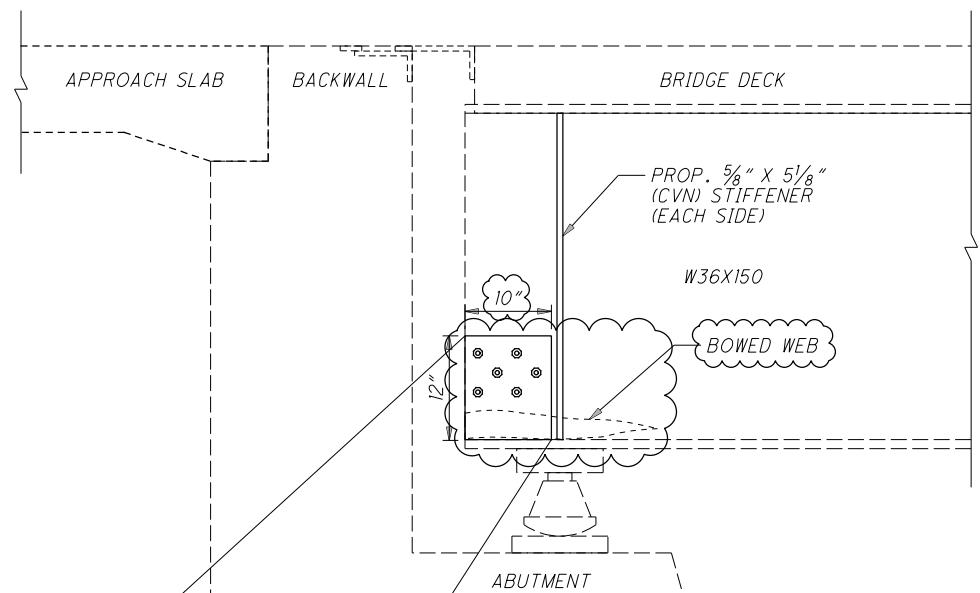


STIFFENER DETAIL

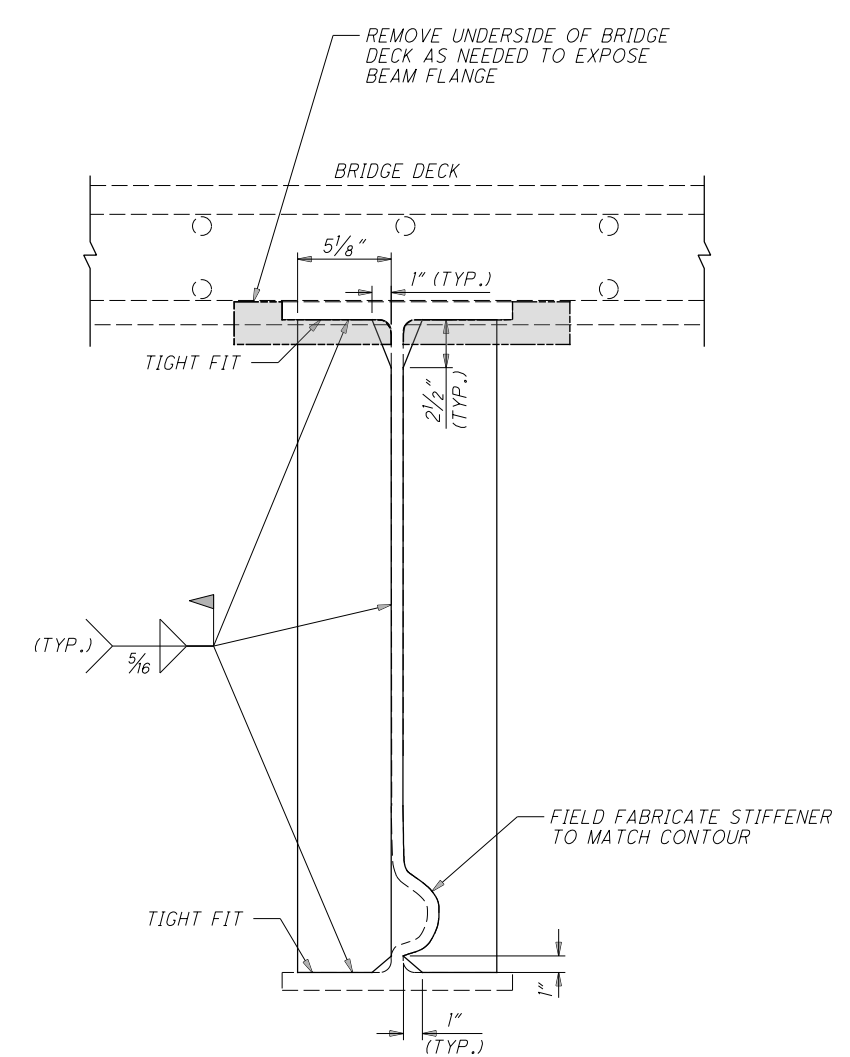
REAR BEAM 1 & 5, FWD BEAM 1

DESIGNED JLL CHECKED KRB	DRAWN JLL REVISED	REVIEWED KAK STRUCTURE FILE NUMBER 3904083	DATE 11/2020	DESIGN AGENCY ODOT DISTRICT THREE OFFICE OF ENGINEERING
STRUCTURE DETAILS STRUCTURE HUR-303-1-97 VERMILION RIVER				
D03-BH-FY2021(B) PID No. 100081				
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FWD BEAM 5 DETAIL



STIFFENER DETAIL

FORWARD BEAM 5

NOTES

1.) THE CONTRACTOR SHALL FIELD FABRICATE THE OUTSIDE STIFFENER PLATE TO MATCH THE CONTOURS OF THE EXISTING BEAM WEB AS SHOWN IN THE STIFFENER DETAIL. THE INSIDE STIFFENER PLATE AND THE PROPOSED WEB PLATE SHALL NOT MATCH THE BEAM CONTOUR.

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DESIGNED JLL KRB	DRAWN JLL REVISED	REVIEWED KAK	DATE 11/2020	DESIGN AGENCY ODOT DISTRICT THREE OFFICE OF ENGINEERING
		STRUCTURE FILE NUMBER 3904083		
STRUCTURE DETAILS				
STRUCTURE HUR-303-1-97 VERMILION RIVER				
D03-BH-FY2021(B)				
PID No. 100081				
2 / 3				
19 21				