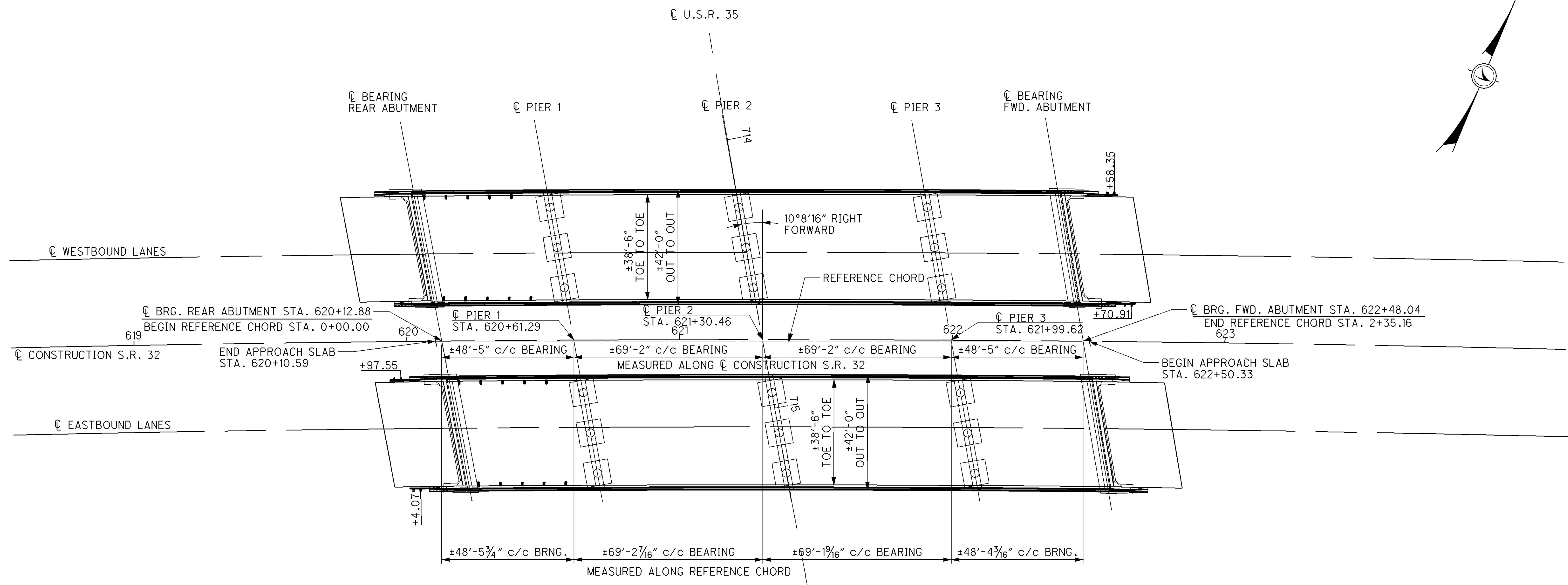


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BENCHMARK DATA	
TBM #5	STA. 586+55.08, ELEV. 699.96, OFFSET 65.15, LEFT
TBM #6	STA. 592+00.00, ELEV. 685.69,
TBM #7	STA. 595+50.83, ELEV. 676.50, OFFSET 56.98', RIGHT
TBM #8	STA. 597+50.51, ELEV. 668.83, OFFSET 55.93', LEFT
TBM #9	STA. 615+63.44, ELEV. 673.57,
TBM #10	STA. 626+72.41, ELEV. 697.26, OFFSET 53.17', LEFT

FOR ADDITIONAL BENCHMARK INFORMATION. SEE BRIDGE PLAN SHEET 13/13

PROPOSED WORK	EXISTING STRUCTURE
<ul style="list-style-type: none"> <li>REMOVE EXISTING OVERLAYS FROM SUPERSTRUCTURE AND APPROACH SLABS</li> <li>REMOVE EXISTING APPROACH SLABS AND PORTIONS OF THE EXISTING ABUTMENTS</li> <li>HYDRODEMOLITION DECK TO INDICATED DEPTH</li> <li>CONSTRUCT 1'-0" CAP OF EXISTING PARAPETS AND END SECTIONS</li> <li>PLACE 3/4" THICK MICRO-SILICA CONCRETE OVERLAY ON DECK AND CONSTRUCTION PROPOSED APPROACH SLABS</li> <li>INSTALL PROPOSED ELASTOMERIC STRIP SEAL</li> <li>SEAL PARAPETS AND END SECTIONS WITH EPOXY-URETHANE SEALER</li> </ul>	<p>TYPE: 4 SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK</p> <p>SPAN: ±48'-5" , ±69'-2" , ±69'-2" , ±48'-5" c/c BEARING MEASURED ALONG <math>\bar{C}</math> CONSTRUCTION S.R. 32</p> <p>ROADWAY: ±40'-0" F/F PARAPETS</p> <p>LOAD: HS 20-44</p> <p>SKEW: 10°8'16" RIGHT FORWARD WITH TANGENT</p> <p>WEARING SURFACE: ±2 1/4" SUPERPLASTICIZED DENSE CONCRETE OVERLAY</p> <p>APPROACH SLABS: 25'-0" (PARTIAL WIDTH)</p> <p>ALIGNMENT: 0°28' CURVE TO RIGHT</p> <p>SFN: 4002040 L &amp; 4002075 R</p> <p>LATITUDE: 39°2'43" N</p> <p>LONGITUDE: 82°36'48" W</p> <p>DATE BUILT: 1972</p>

DESIGNED	JAB	CHECKED	MRH
DRAWN	JAB	REVISED	
REVIEWED	LAW	STRUCTURE FILE NUMBER	4002040 L 4002075 R
DATE	4/23/09	DESIGN AGENCY	STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 9 PRODUCTION
<b>SITE PLAN</b>			
BRIDGE NO. JAC-32-1175 L&R OVER U.S.R. 35			
JACKSON COUNTY STA. 620+10.59 STA. 622+50.33			
<b>JAC-32-2.78</b>		<b>PID No. 75461</b>	
1 / 13			
148 189			

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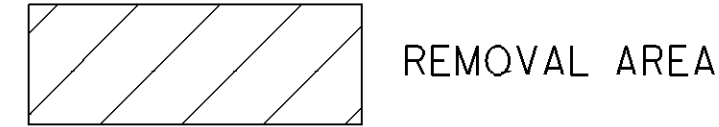
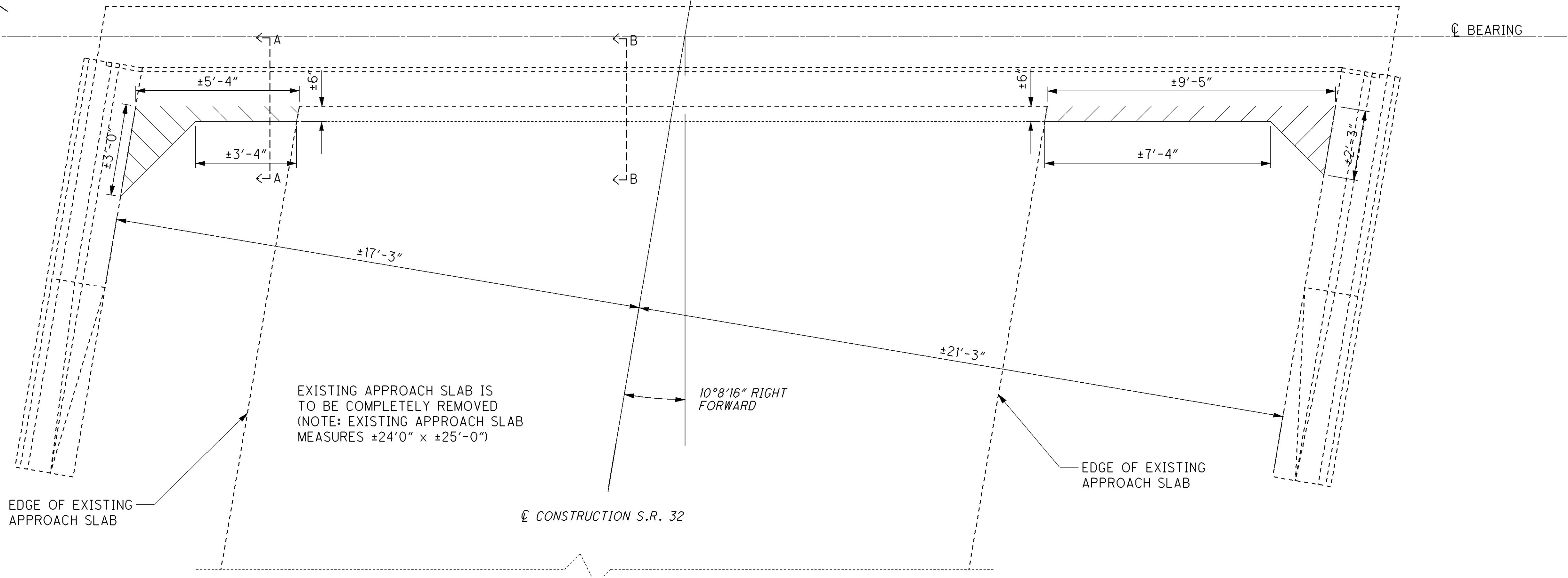
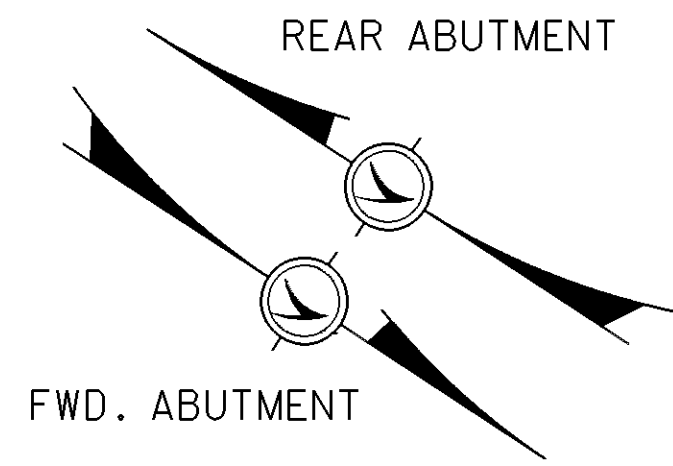
ESTIMATED QUANTITIES FOR JAC-32-1175 (LEFT BRIDGE) S.F.N. 4002040

					GENERAL	SUBSTRUCTURE	SUPERSTRUCTURE	PARAPETS	SEE SHEET NO.
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION					
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN			LUMP		2/13
202	22900	133	SQ. YD.	APPROACH SLAB REMOVED	133				
202	23500	133	SQ. YD.	WEARING COURSE REMOVED	133				
509	10000	290	POUND	EPOXY COATED REINFORCING STEEL		290			
510	10000	52	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		52			
512	10100	618	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)*	63			555	
516	14600	82	FOOT	STRUCTURAL JOINT OR JOINT SEALER, MISC.; ELASTOMERIC STRIP SEAL			82		2/13
517	75401	528	FOOT	RAILING (UPGRADING EXISTING), AS PER PLAN	54			474	2/13
518	12801	10	EACH	SCUPPER MODIFICATION, AS PER PLAN			10		2/13
848	10000	1026	SQ. YD.	MICRO SILICA CONCRETE OVERLAY USING HYDRODEMOLITION (3/4" THICK)			1026		
848	20000	1026	SQ. YD.	SURFACE PREPARATION USING HYDRODEMOLITION			1026		
848	30000	42	CU. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			42		
848	50000	20	SQ. YD.	HAND CHIPPING			20		
848	50100	LUMP		TEST SLAB	LUMP				
848	50200	5	CU. YD.	FULL DEPTH REPAIR			5		
848	50320	1026	SQ. YD.	EXISTING CONCRETE OVERLAY REMOVED (±2 1/4" THICK SUPERPLASTICIZED DENSE CONCRETE)			1026		
898	10705	214	SQ. YD.	QC/OA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (APPROACH SLAB), T=15", AS PER PLAN	214				2/13
*LIGHT NEUTRAL (FEDERAL COLOR NO. 17778)									

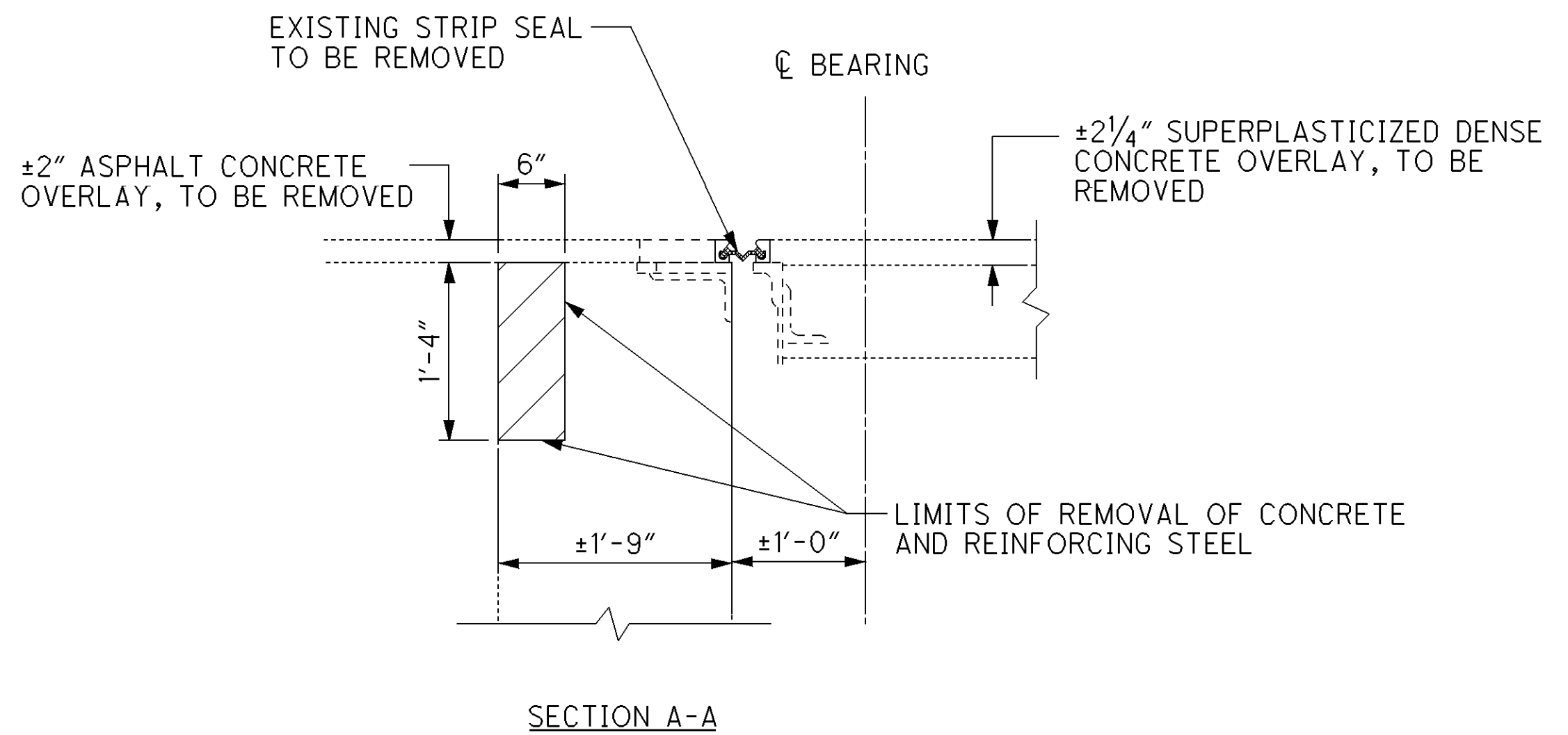
ESTIMATED QUANTITIES FOR JAC-32-1175 (RIGHT BRIDGE) S.F.N. 4002075

					GENERAL	SUBSTRUCTURE	SUPERSTRUCTURE	PARAPETS	SEE SHEET NO.
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION					
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN			LUMP		2/13
202	22900	133	SQ. YD.	APPROACH SLAB REMOVED	133				
202	23500	133	SQ. YD.	WEARING COURSE REMOVED	133				
509	10000	290	POUND	EPOXY COATED REINFORCING STEEL		290			
510	10000	52	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		52			
512	10100	618	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)*	63			555	
516	14600	82	FOOT	STRUCTURAL JOINT OR JOINT SEALER, MISC.; ELASTOMERIC STRIP SEAL			82		2/13
517	75401	528	FOOT	RAILING (UPGRADING EXISTING), AS PER PLAN	54			474	2/13
518	12801	10	EACH	SCUPPER MODIFICATION, AS PER PLAN			10		2/13
848	10000	1026	SQ. YD.	MICRO SILICA CONCRETE OVERLAY USING HYDRODEMOLITION (3/4" THICK)			1026		
848	20000	1026	SQ. YD.	SURFACE PREPARATION USING HYDRODEMOLITION			1026		
848	30000	42	CU. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			42		
848	50000	20	SQ. YD.	HAND CHIPPING			20		
848	50100	LUMP		TEST SLAB	LUMP				
848	50200	5	CU. YD.	FULL DEPTH REPAIR			5		
848	50320	1026	SQ. YD.	EXISTING CONCRETE OVERLAY REMOVED (±2 1/4" THICK SUPERPLASTICIZED DENSE CONCRETE)			1026		
898	10705	214	SQ. YD.	QC/OA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (APPROACH SLAB), T=15", AS PER PLAN	214				2/13
*LIGHT NEUTRAL (FEDERAL COLOR NO. 17778)									

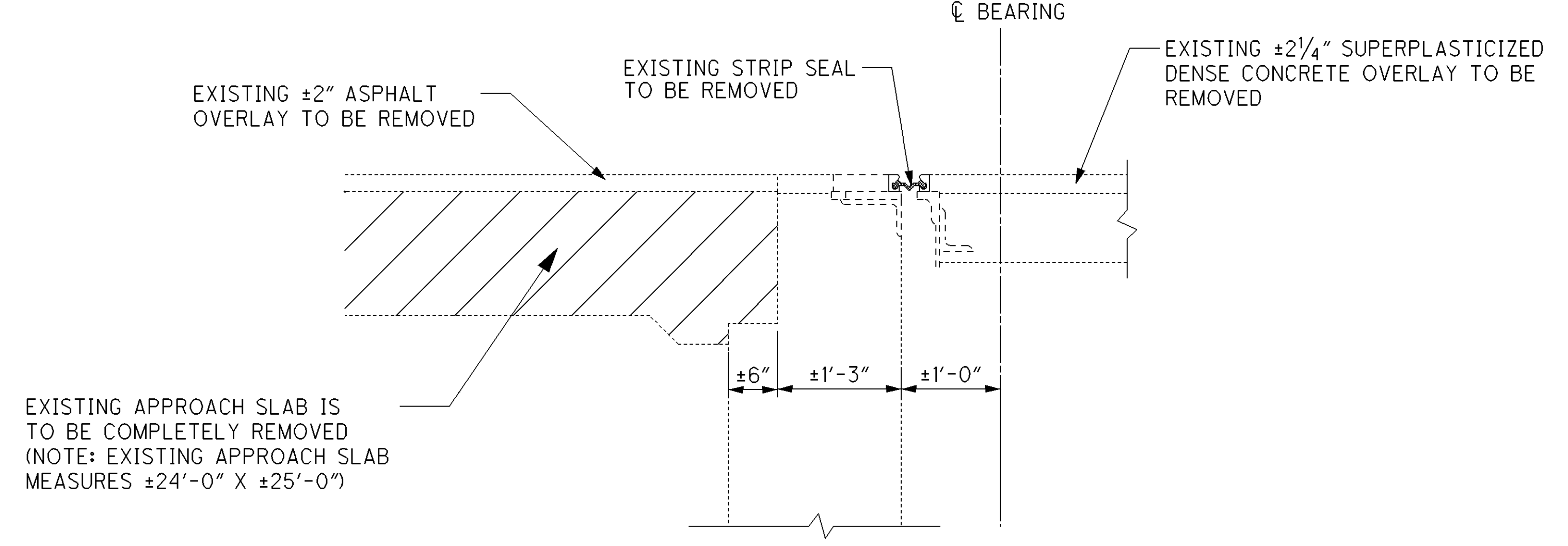
DESIGN AGENCY STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 9 PRODUCTION	DATE 4/23/09	REVIEWED LAW	DRAWN JAB	DESIGNED JAB	STRUCTURE FILE NUMBER 4002040 L 4002075 R
<b>ESTIMATED QUANTITIES</b>					
BRIDGE NO. JAC-32-1175 L & R OVER U.S.R. 35					
<b>JAC-32-2.78</b>					
<b>PID No. 75461</b>					
3 / 13					
150 189					



PLAN VIEW  
 APPLIES TO: REAR AND FORWARD ABUTMENTS OF BOTH THE EASTBOUND AND WESTBOUND LANES



SECTION A-A



SECTION B-B

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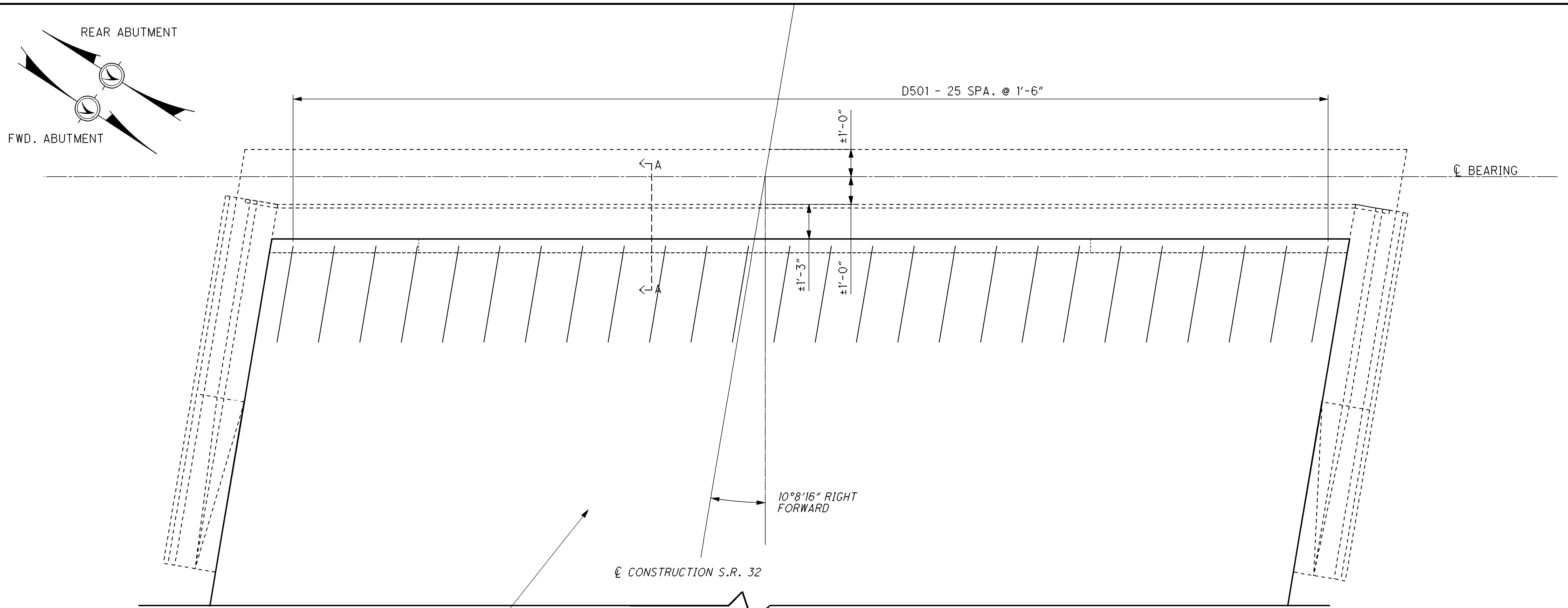
DESIGN AGENCY  
 STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION  
 DISTRICT 9 PRODUCTION

DESIGNED	DRAWN	REVIEWED	DATE
JAB	JAB	LAW	4/23/09
CHECKED	REVISED	STRUCTURE FILE NUMBER	
MRH		4002040 L	
		4002075 R	

REMOVAL DETAILS  
 BRIDGE NO. JAC-32-1175 L&R  
 OVER U.S.R. 35

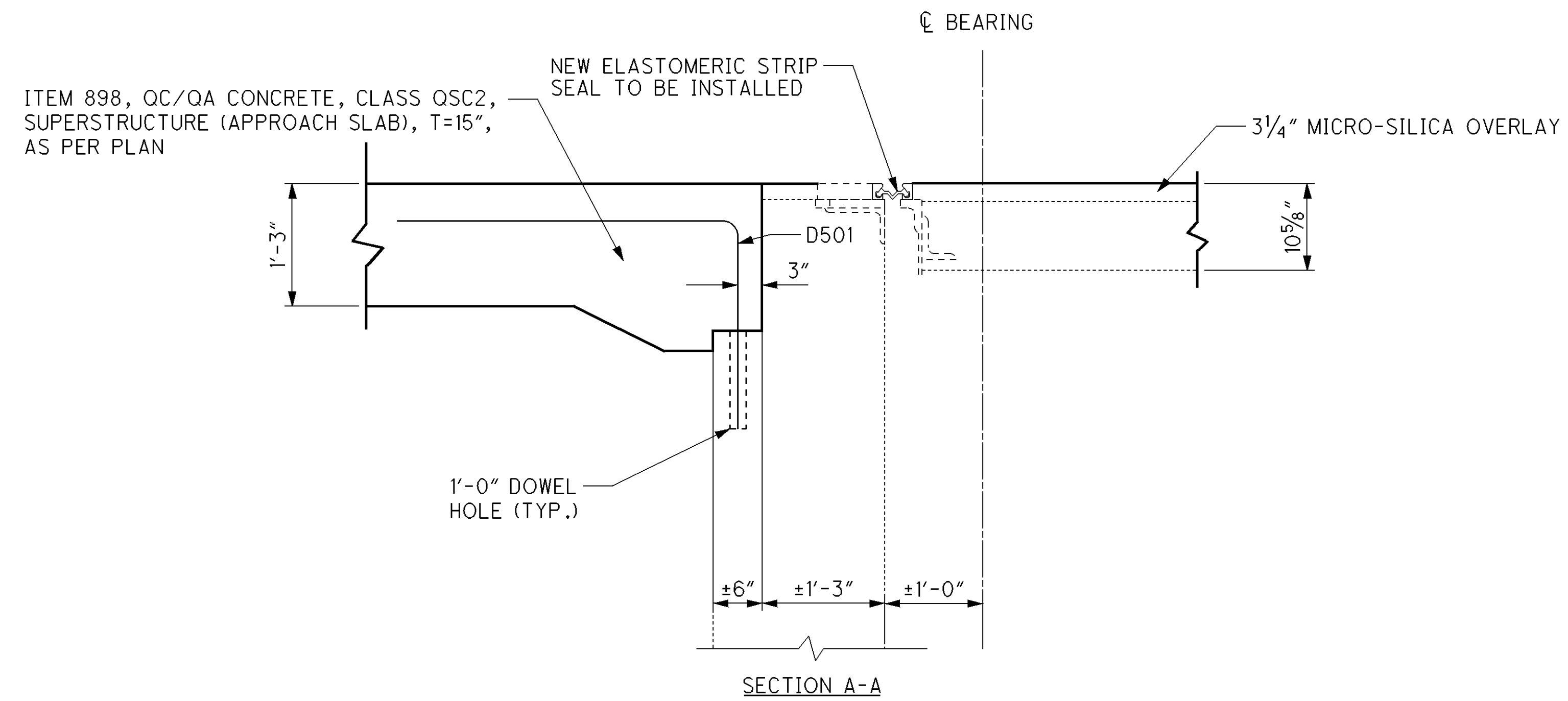
JAC-32-2.78  
 PID No. 75461

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ITEM 898, QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (APPROACH SLAB), T=15", AS PER PLAN

APPLIES TO: REAR AND FORWARD ABUTMENTS OF BOTH THE EASTBOUND AND WESTBOUND LANES

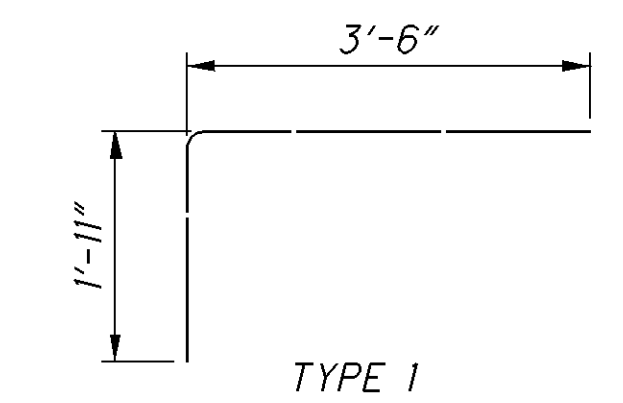


WESTBOUND LANES REINFORCING STEEL LIST

MARK	NO.	LENGTH	WT.	TYPE
REAR ABUTMENT				
D501	26	5'-4"	145	TYPE 1
FORWARD ABUTMENT				
D501	26	5'-4"	145	TYPE 1
ABUTMENT TOTAL = 290				

EASTBOUND LANES REINFORCING STEEL LIST

MARK	NO.	LENGTH	WT.	TYPE
REAR ABUTMENT				
D501	26	5'-4"	145	TYPE 1
FORWARD ABUTMENT				
D501	26	5'-4"	145	TYPE 1
ABUTMENT TOTAL = 290				



TOTALS ARE CARRIED TO THE ESTIMATED QUANTITIES ON SHEET 3/13

NOTE  
DOWEL HOLE LENGTH INDICATES THE MINIMUM DEPTH OF EMBEDMENT OF THE PROPOSED REINFORCING STEEL

DESIGN AGENCY: STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION  
 DISTRICT 9 PRODUCTION

DATE: 4/23/09  
 STRUCTURE FILE NUMBER: 4002040 L  
 4002075 R

DESIGNED: JAB  
 CHECKED: MRH

DRAWN: JAB  
 REVISED:

REVIEWED: LAW  
 LAW

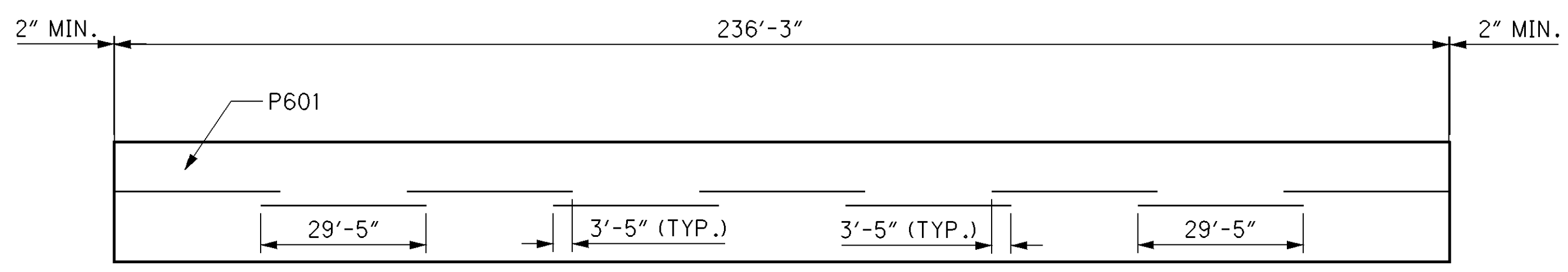
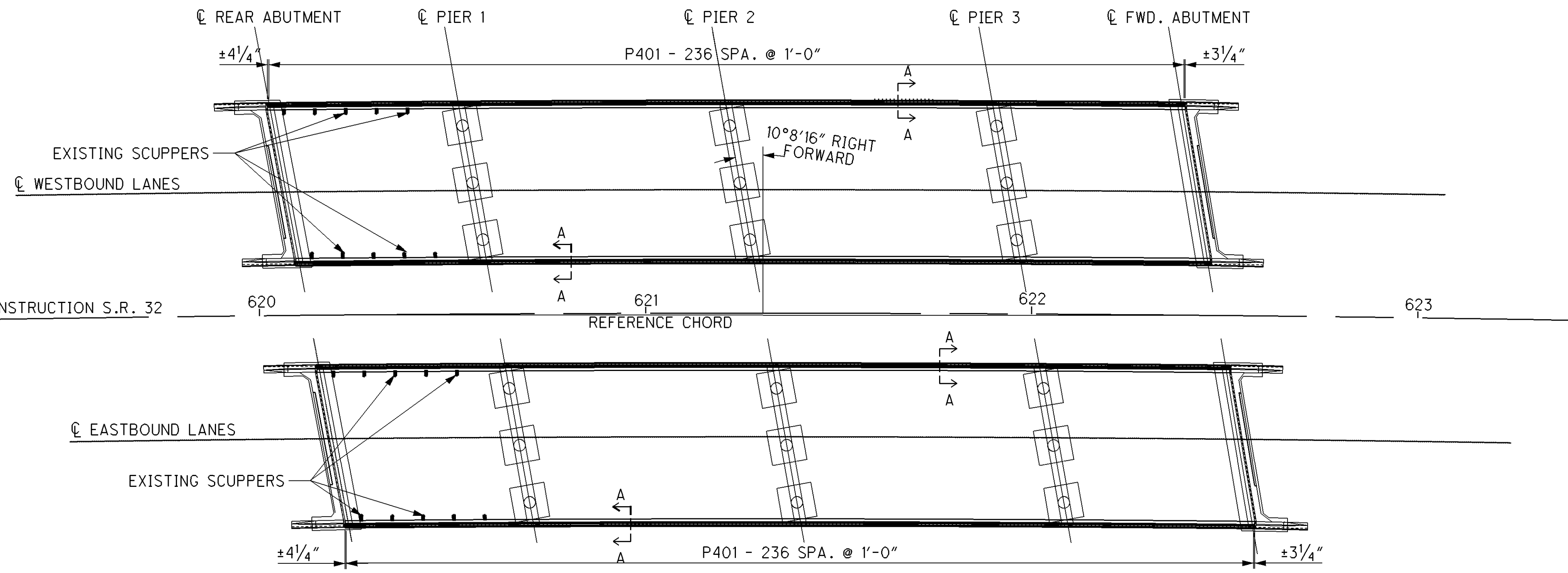
ABUTMENT DETAILS  
 BRIDGE NO. JAC-32-1175 L&R  
 OVER U.S.R. 35

JAC-32-2.78  
 PID No. 75461

6 / 13

153  
 189

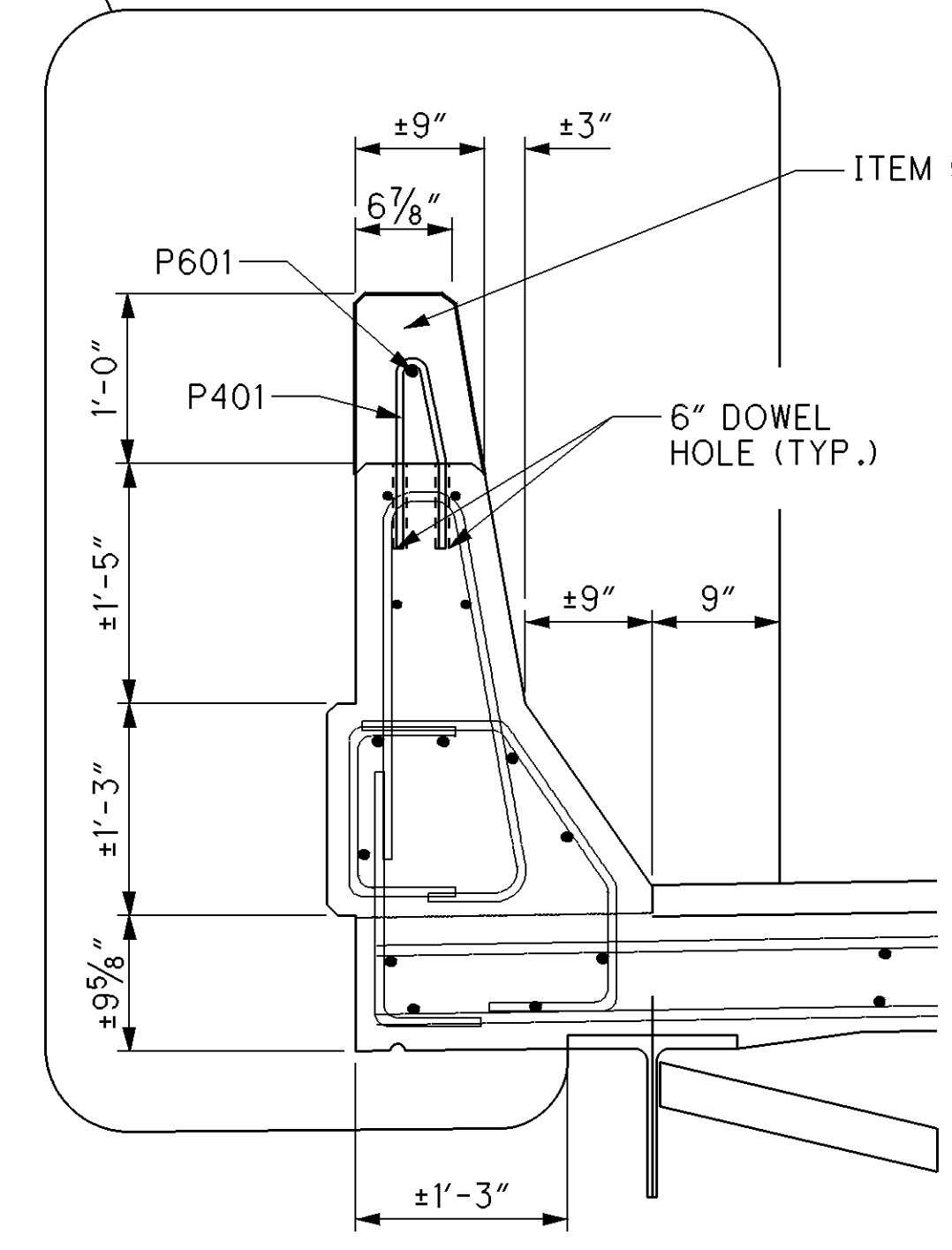
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SECTION B-B  
LAP DIAGRAM FOR P601 BARS

NOTE:  
CONTROL JOINTS SHALL BE SAWED INTO THE UPGRADED PARAPET  
AT THE SAME LOCATION OF THE EXISTING CONTROL JOINTS

SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

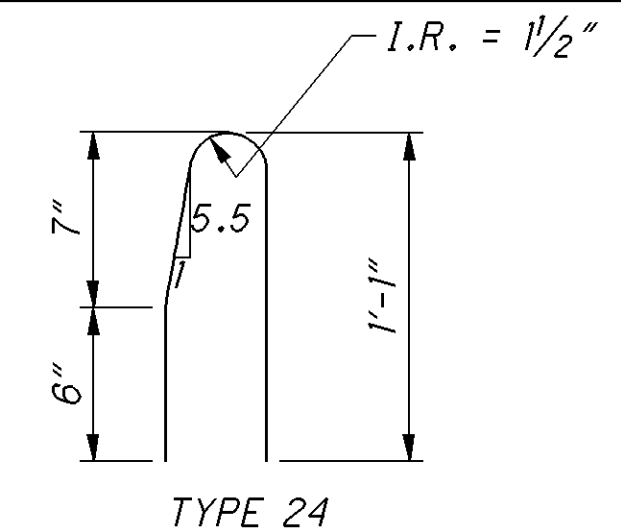


SECTION A-A

NOTE  
DOWEL HOLE LENGTH INDICATES THE  
MINIMUM DEPTH OF EMBEDMENT OF  
THE PROPOSED REINFORCING STEEL

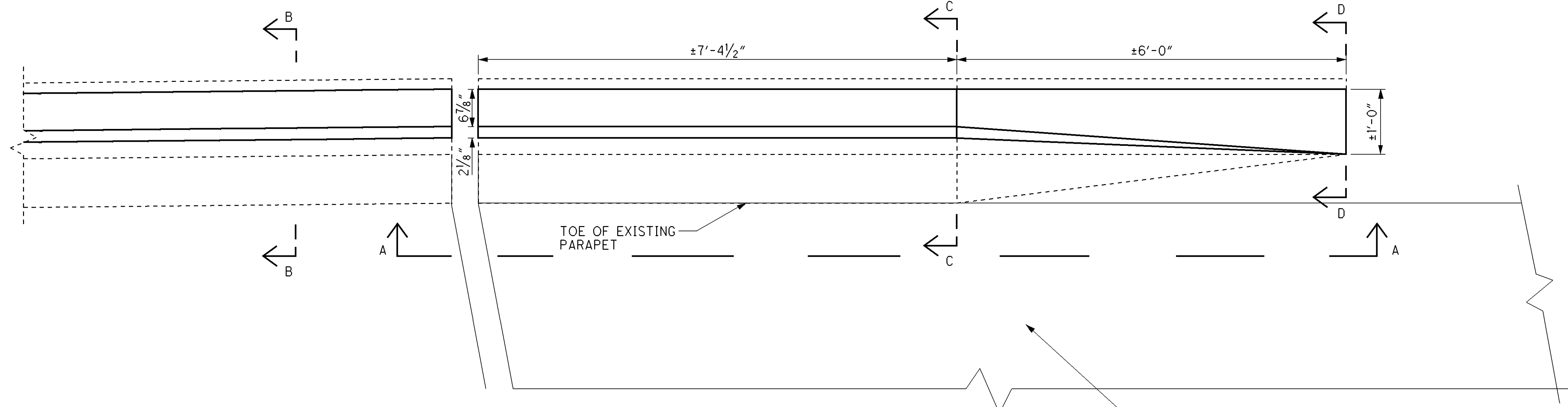
JAC-32-1175 L					JAC-32-1175 R				
MARK	NUMBER	LENGTH	SHAPE	LAP	MARK	NUMBER	LENGTH	SHAPE	LAP
PARAPET REINFORCING STEEL									
P401	474	2'-5"	TYPE 1		P401	474	2'-5"	TYPE 1	
P601	18	29'-5"	STRAIGHT	3'-5"	P601	18	29'-5"	STRAIGHT	3'-5"

NOTES:  
1. ALL REINFORCING STEEL IS TO BE EPOXY COATED.



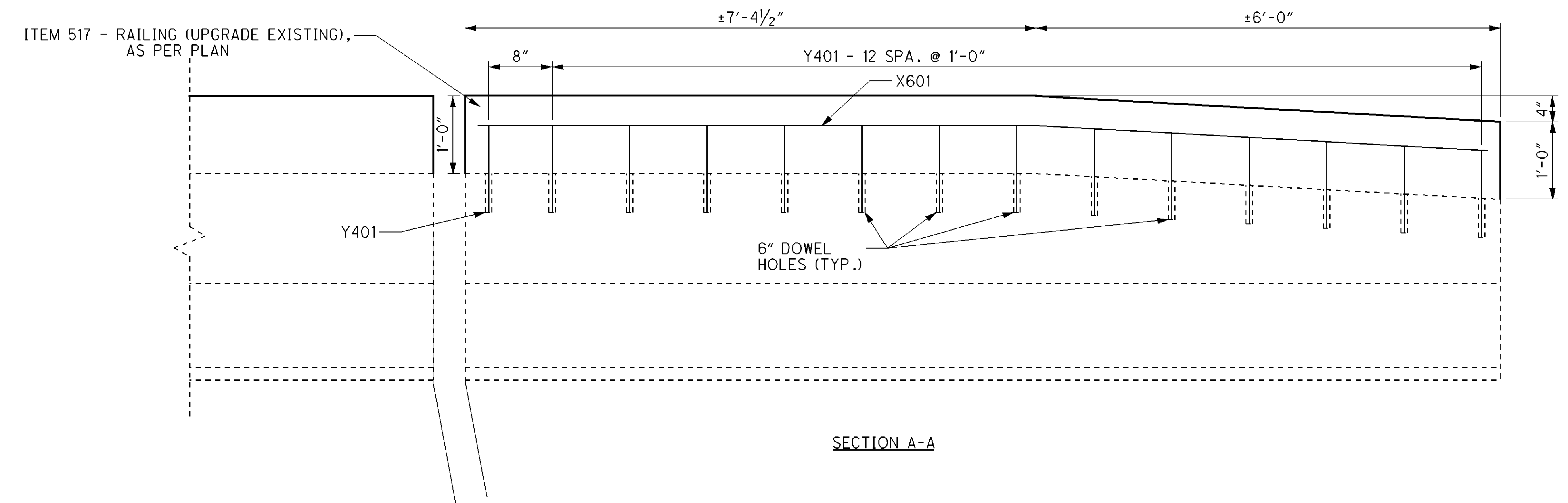
TYPE 24

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PLAN VIEW  
 APPLIES TO: ALL 8 PARAPET TRANSITIONS OF BOTH THE EASTBOUND AND WESTBOUND LANES  
 ITEM 898, QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (APPROACH SLAB), T=15", AS PER PLAN

TYPICAL PARAPET END SECTION  
 FOR SECTIONS B-B, C-C, D-D SEE SHEET 10/13

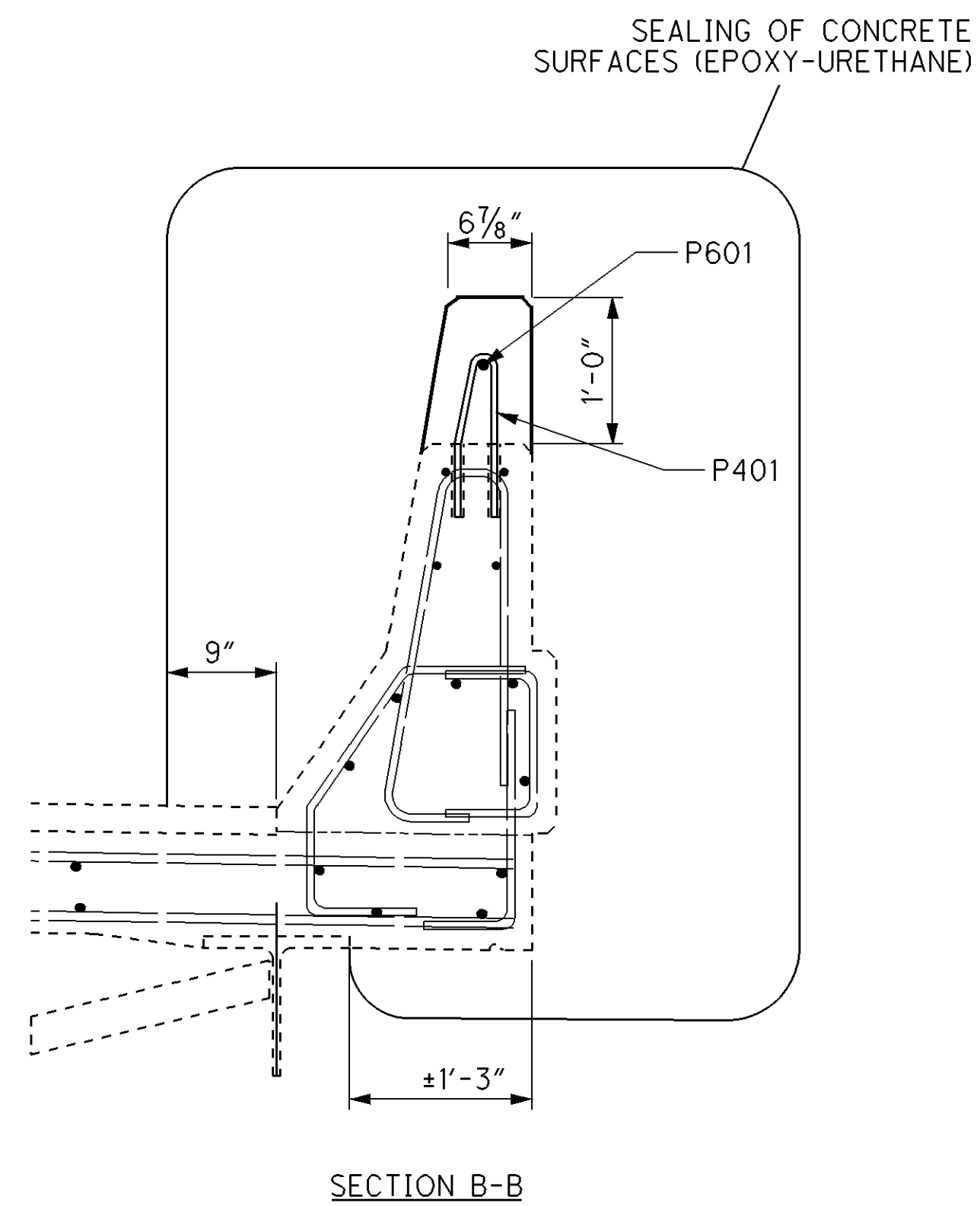


SECTION A-A

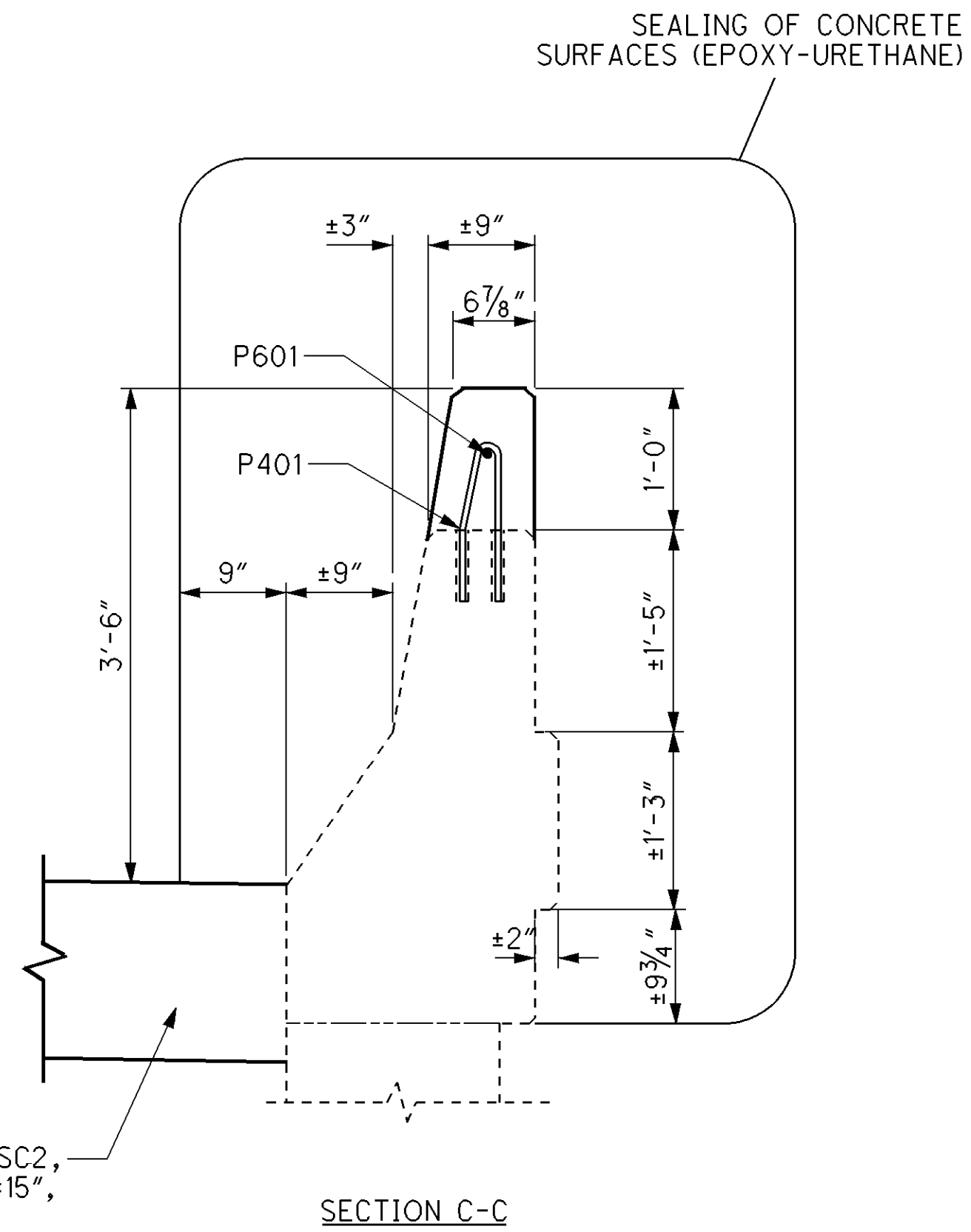
NOTE  
 DOWEL HOLE LENGTH INDICATES THE MIN. DEPTH OF EMBEDMENT OF PROPOSED REINFORCING STEEL.

DESIGNED		DRAWN		REVIEWED		DATE		DESIGN AGENCY	
JAB	JAB	JAB	JAB	LAW	LAW	4/23/09	4/23/09	STATE OF OHIO	STATE OF OHIO
CHECKED	CHECKED	REVISIONS	REVISIONS	STRUCTURE FILE NUMBER	STRUCTURE FILE NUMBER	4002040	4002040	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION
MRH	MRH							DISTRICT 9 PRODUCTION	DISTRICT 9 PRODUCTION
<b>PROPOSED PARAPET TRANSITION</b> BRIDGE NO. JAC-32-1175 L&R OVER U.S.R. 35									
<b>JAC-32-2.78</b> <b>PID No. 75461</b>					9 / 13				
156 189									

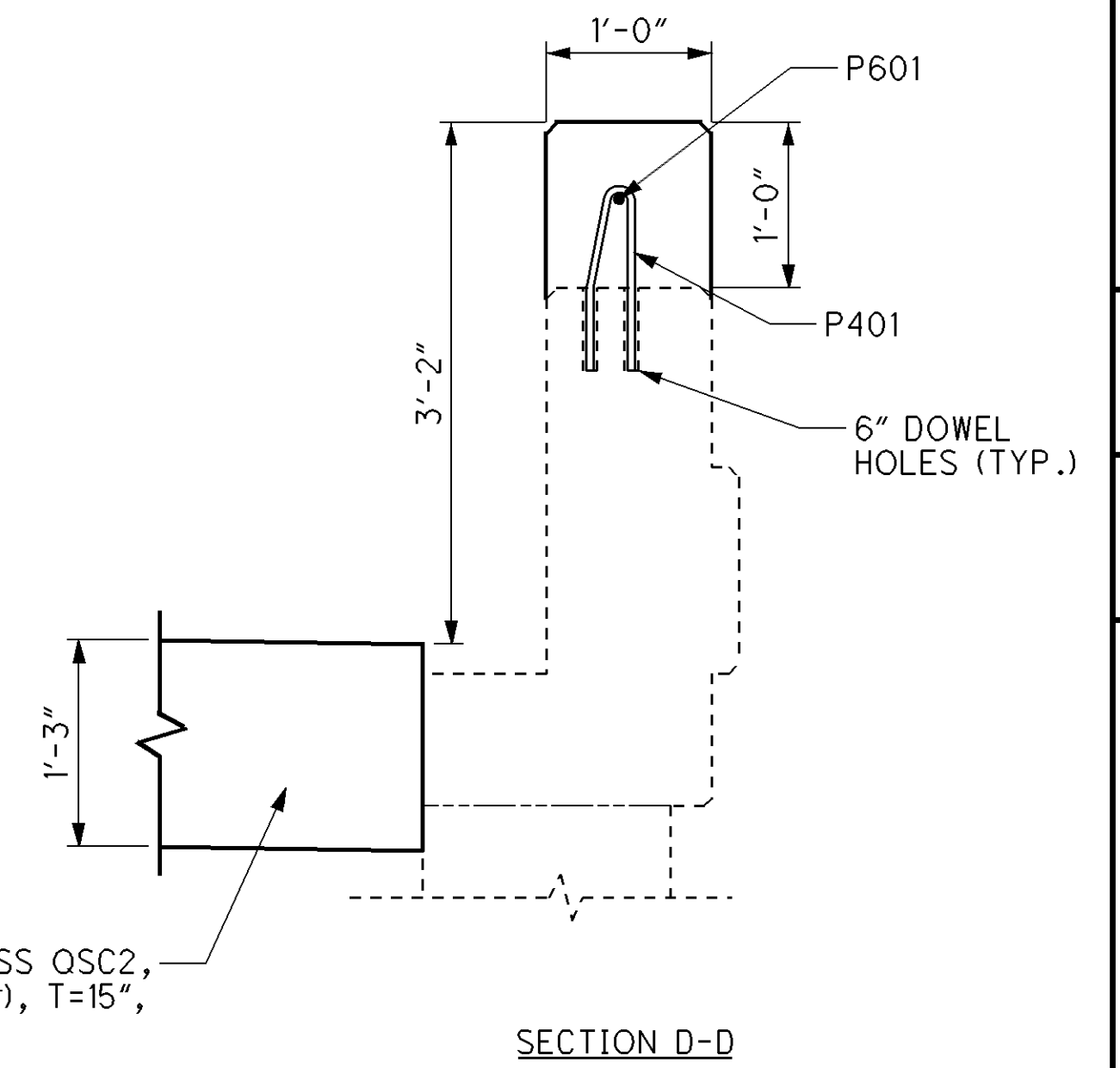
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ITEM 898, OC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (APPROACH SLAB), T=15", AS PER PLAN

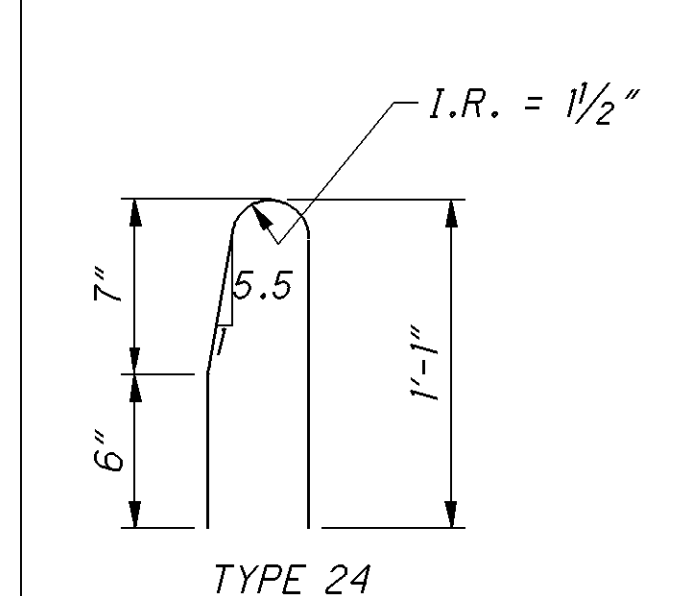


ITEM 898, OC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (APPROACH SLAB), T=15", AS PER PLAN



REINFORCING STEEL LIST

MARK	NO.	LENGTH	TYPE
Y401	14	2'-5"	TYPE 24
X601	1	12'-4"	STR.

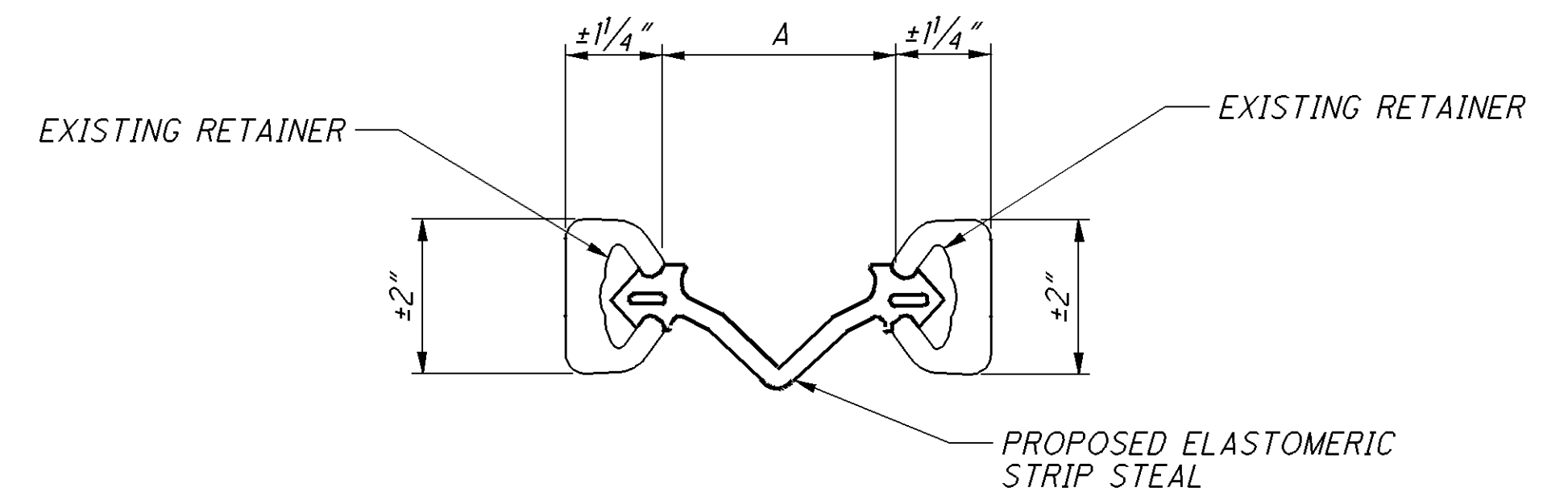


NOTE  
REINFORCING STEEL LIST APPLIES TO ONLY ONE PARAPET TRANSITION

NOTE  
DOWEL HOLE LENGTH INDICATES THE MIN. DEPTH OF EMBEDMENT OF PROPOSED REINFORCING STEEL.

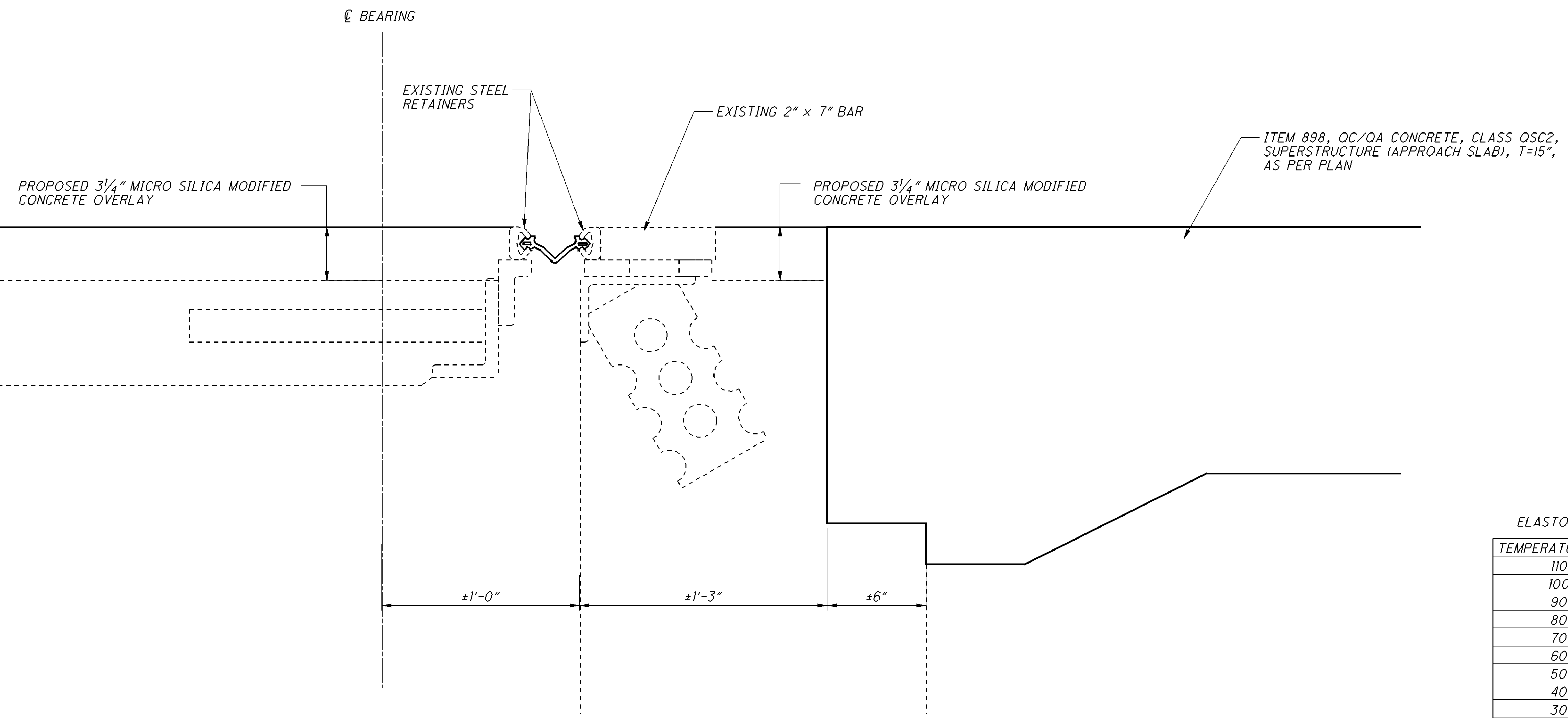
<p><b>JAC-32-2.78</b> <b>PID No. 75461</b></p>	<p><b>PROPOSED PARAPET TRANSITION</b> BRIDGE NO. JAC-32-1175 L&amp;R OVER U.S.R. 35</p>	<p>DESIGNED JAB CHECKED MRH</p>	<p>DRAWN JAB REVISED</p>	<p>REVIEWED LAW</p>	<p>DATE 4/23/09</p>	<p>STRUCTURE FILE NUMBER 4002040 L 4002075 R</p>	<p>DESIGN AGENCY STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 9 PRODUCTION</p>
<p>10 / 13</p>		<p>157 189</p>					

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STEEL RETAINER DETAILS

NOTE  
 CONTRACTOR SHALL VERIFY THE EXISTING TYPE OF RETAINERS TO ENSURE PROPER FIT OF THE PROPOSED ELASTOMERIC STRIP SEAL.



SECTION VIEW OF EXPANSION JOINT  
 APPLIES TO: BOTH THE REAR AND FORWARD ABUTMENTS OF BOTH THE WESTBOUND AND EASTBOUND LANES

ELASTOMERIC STRIP SEAL DETAILS

TEMPERATURE (°F)	DIMENSION A (INCHES)
110	7/8
100	1 3/8
90	1 3/4
80	2 1/8
70	2 5/8
60	3
50	3 3/8
40	3 7/8
30	4 1/4
20	4 5/8
10	5 1/8

DESIGN AGENCY  
 STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION  
 DISTRICT 9 PRODUCTION

DATE  
 4/23/09  
 REVISIONS  
 LAW  
 STRUCTURE FILE NUMBER  
 4002040  
 4002075 R

DRAWN  
 JAB  
 REVISED

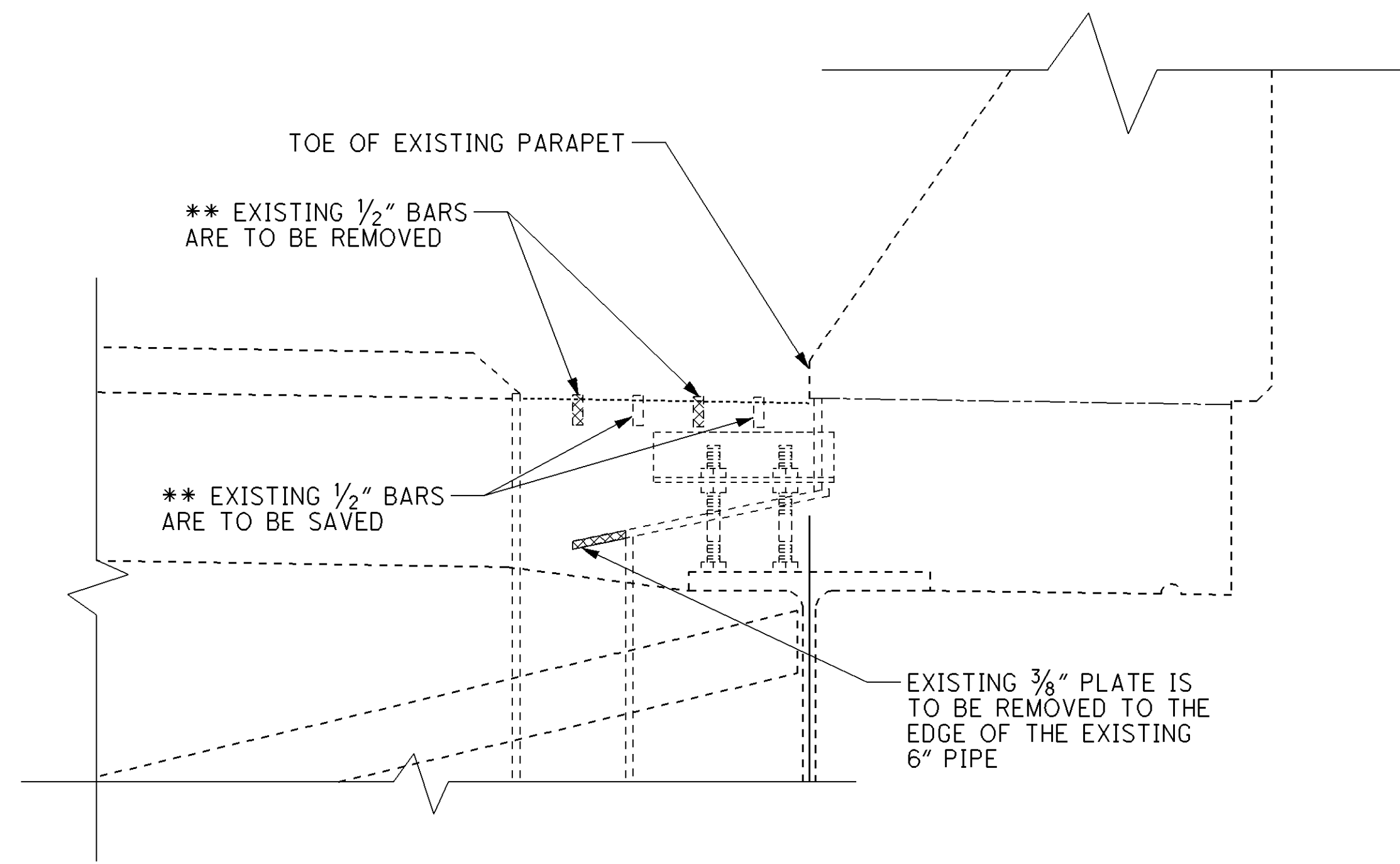
DESIGNED  
 JAB  
 CHECKED  
 MRH

PROPOSED ELASTOMERIC STRIP SEAL  
 BRIDGE NO.: JAC-32-1175 L & R  
 OVER U.S.R. 35

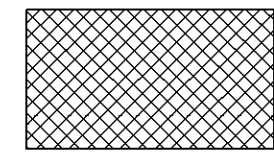
JAC-32-2.78  
 PID No. 75461



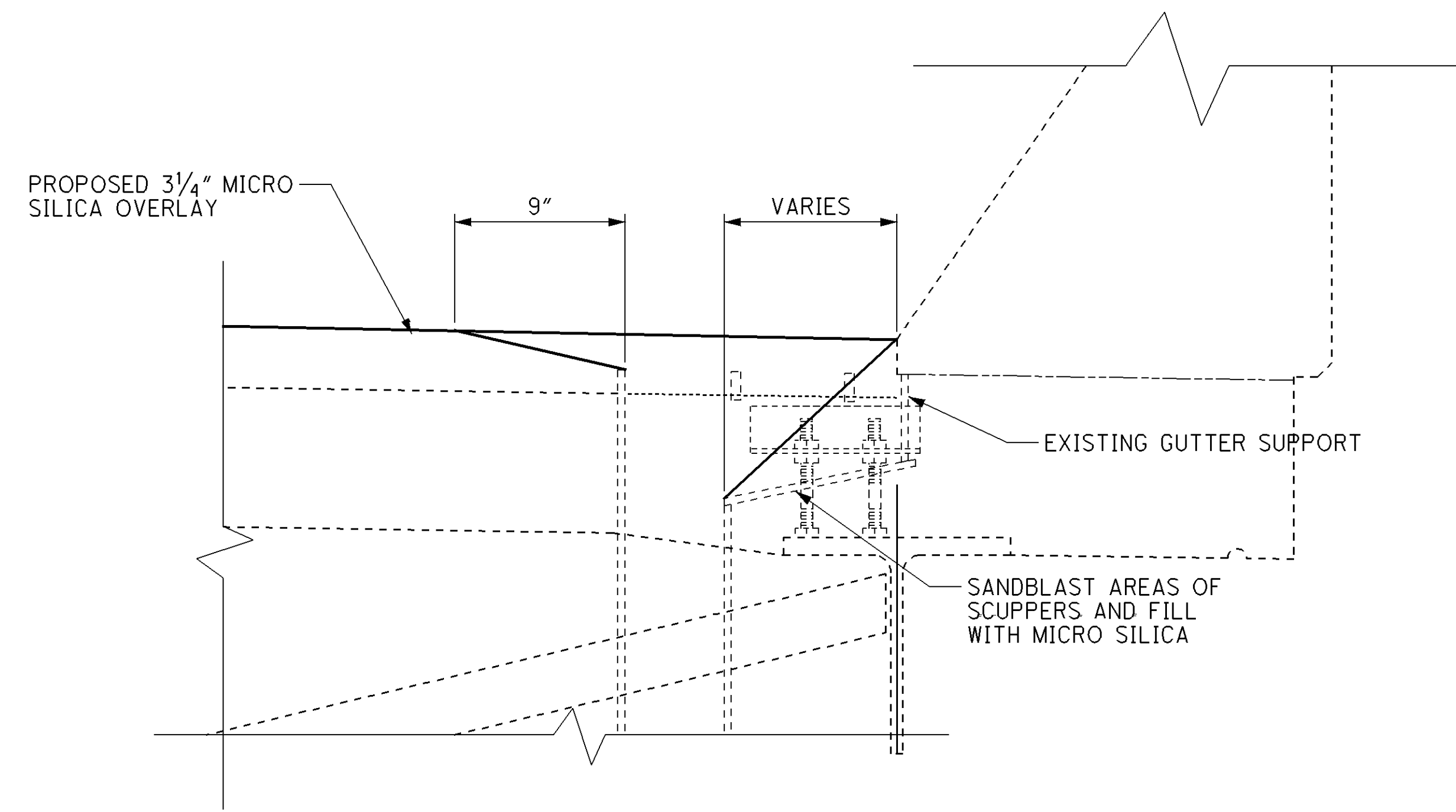
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**SECTION VIEW OF EXISTING SCUPPER**  
 APPLIES TO: RIGHT AND LEFT EDGES OF DECKS  
 OF BOTH THE EASTBOUND AND  
 WESTBOUND LANES

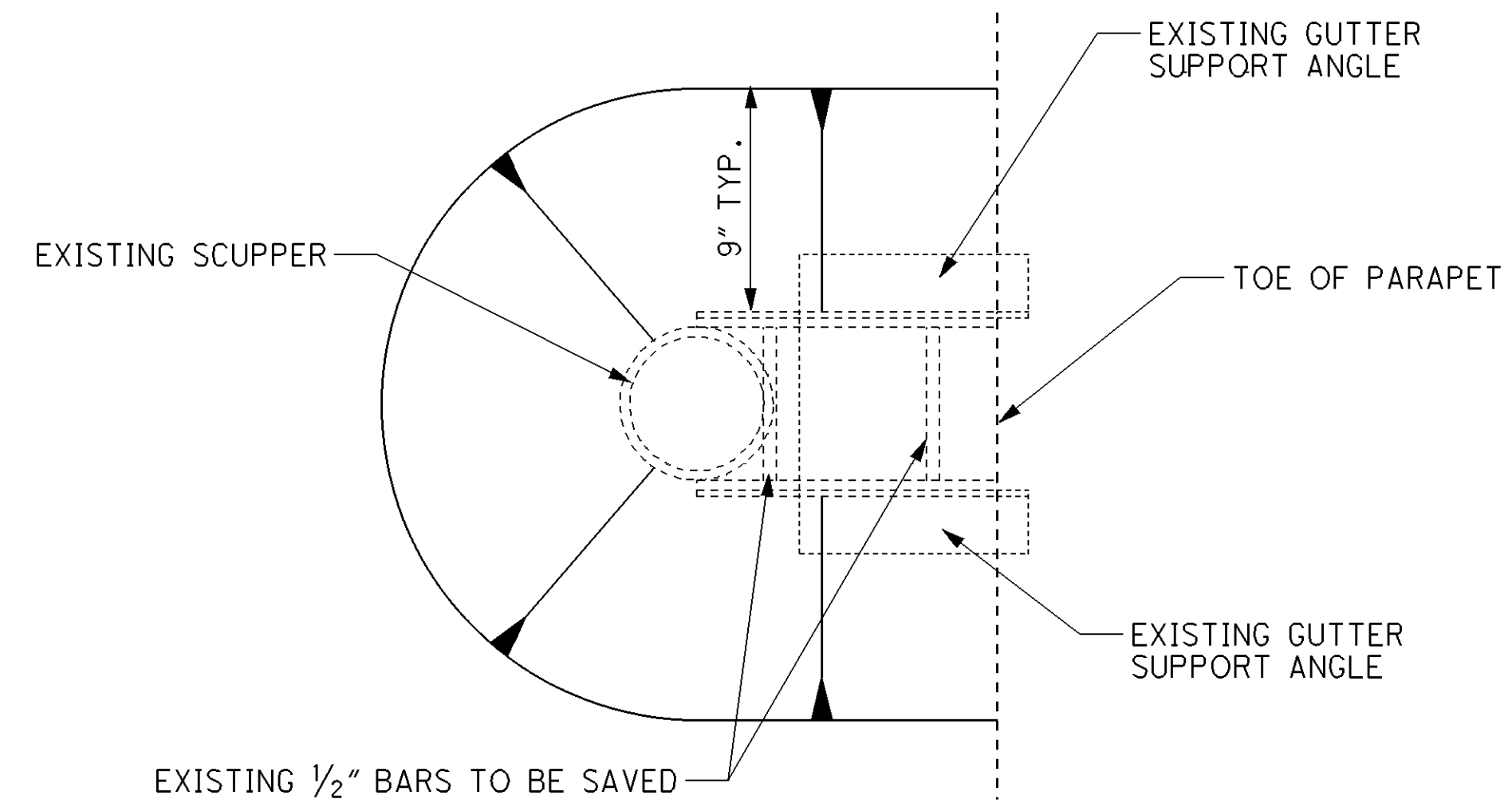


REMOVAL AREA



**SECTION VIEW OF PROPOSED SCUPPER**  
 APPLIES TO: RIGHT AND LEFT EDGES OF DECKS  
 OF BOTH THE EASTBOUND AND  
 WESTBOUND LANES

- \*\* EACH BRIDGE CONTAINS TWO DIFFERENT TYPES OF SCUPPERS
- \*\* RIGHT BRIDGE  
 THERE ARE NINE SCUPPERS, AS SHOWN ABOVE.  
 THERE IS ONE SCUPPER, NOT SHOWN, THAT HAS FIVE  
 BARS INSTEAD OF FOUR BARS, AS SHOWN ABOVE. FOLLOW A  
 SIMILAR REMOVAL SEQUENCE FOR THE BARS, FIRST REMOVING  
 THE BAR OVER THE 6" PIPE
- \*\* LEFT BRIDGE  
 THERE ARE EIGHT SCUPPERS, AS SHOWN ABOVE.  
 THERE ARE TWO SCUPPERS, NOT SHOWN, THAT HAVE FIVE  
 BARS INSTEAD OF FOUR BARS, AS SHOWN ABOVE. FOLLOW A  
 SIMILAR REMOVAL SEQUENCE FOR THE BARS, FIRST REMOVING  
 THE BAR OVER THE 6" PIPE



**PLAN VIEW OF PROPOSED SCUPPER**  
 FOR SCUPPER LOCATIONS SEE SHEET 8/13.

DESIGN AGENCY  
 STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION  
 DISTRICT 9 PRODUCTION

DESIGNED	JAB	CHECKED	MRH
DRAWN	JAB	REVISED	
REVIEWED	LAW	STRUCTURE FILE NUMBER	4002040 L
DATE	4/23/09		4002075 R

**SCUPPER DETAILS**  
 BRIDGE NO. JAC-32-1175 L&R  
 OVER U.S.R. 35

**JAC-32-2.78**  
**PID No. 75461**