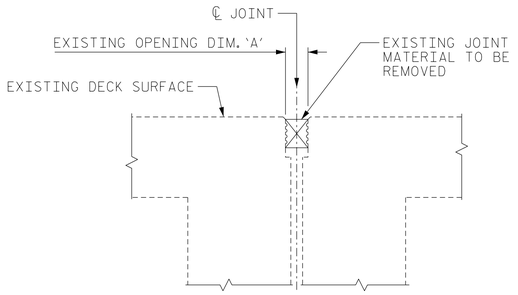
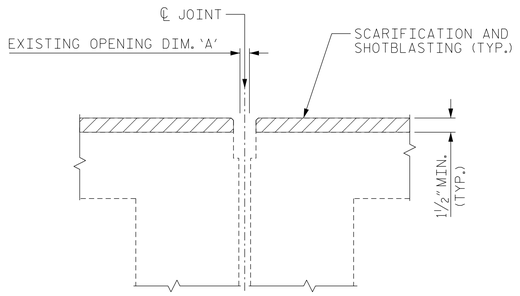
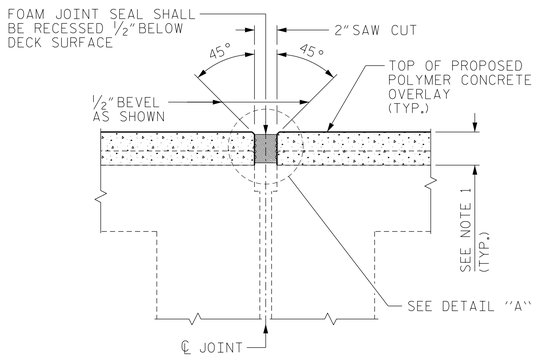


EXISTING
(PRIOR TO PC OVERLAY)



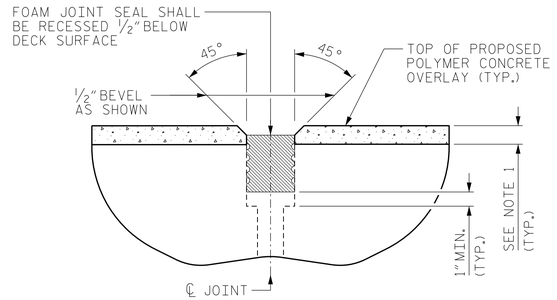
SURFACE PREPARATION
(SCARIFICATION AND SHOTBLASTING)



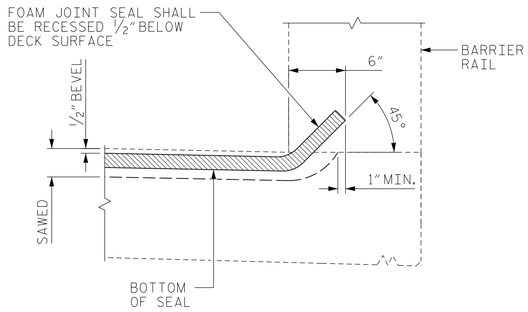
PROPOSED JOINT
(FOAM JOINT SEAL)

INTERMEDIATE BENTS
(BENTS: 15 THRU 18)

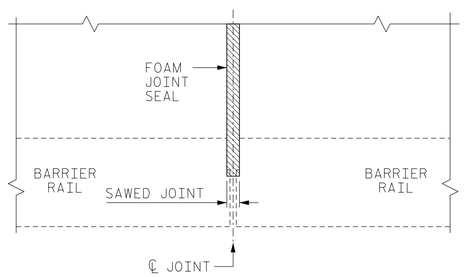
JOINT REPAIR QUANTITY		
	ESTIMATE	ACTUAL
FOAM JOINT SEALS FOR PRESERVATION	4545 LF	
BRIDGE JOINT REMOVAL	366 LF	



DETAIL "A"
(PROPOSED JOINT SEAL)



SECTION A-A
(PROPOSED JOINT SEAL)



PLAN
(PROPOSED JOINT SEAL)

DETAILS AT BARRIER

TYPICAL JOINT DETAILS

EXISTING DIM. 'A' JOINT OPENING			
RECORDED AT 77°	DIM. 'A'		DIM. 'A'
END BENT 1	1⅝"	BENT 40	1"
BENT 1	½"	BENT 41	⅞"
BENT 2	¾"	BENT 42	⅞"
BENT 3	1"	BENT 43	⅞"
BENT 4	¾"	BENT 44	¾"
BENT 5	¾"	BENT 45	⅝"
BENT 6	1⅜"	BENT 46	¾"
BENT 7	⅝"	BENT 47	¾"
BENT 8	¾"	BENT 48	¾"
BENT 9	½"	BENT 49	¾"
BENT 10	½"	BENT 50	1⅛"
BENT 11	¾"	BENT 51	⅞"
BENT 12	1½"	BENT 52	⅞"
BENT 13	⅝"	BENT 53	⅞"
BENT 14	⅞"	BENT 54	¾"
BENT 15	2⅛"	BENT 55	⅝"
BENT 16	1¾"	BENT 56	⅞"
BENT 17	1¾"	BENT 57	½"
BENT 18	2½"	BENT 58	⅝"
BENT 19	⅞"	BENT 59	½"
BENT 20	¾"	BENT 60	⅝"
BENT 21	¾"	BENT 61	⅞"
BENT 22	¾"	BENT 62	⅞"
BENT 23	⅞"	BENT 63	1"
BENT 24	½"	BENT 64	⅞"
BENT 25	⅝"	BENT 65	1"
BENT 26	1"	BENT 66	¾"
BENT 27	¾"	BENT 67	1"
BENT 28	⅝"	BENT 68	⅞"
BENT 29	⅞"	BENT 69	1⅛"
BENT 30	⅞"	BENT 70	1"
BENT 31	⅞"	BENT 71	1¼"
BENT 32	⅞"	BENT 72	⅞"
BENT 33	⅞"	END BENT 2	1⅞"
BENT 34	1⅛"		
BENT 35	1"		
BENT 36	⅞"		
BENT 37	1"		
BENT 38	1"		
BENT 39	1⅛"		

NOTES:

THE EXISTING PROFILE GRADE HAS BEEN MODIFIED FOR RIDEABILITY CORRECTION. AS, SUCH THE PC OVERLAY THICKNESS VARIES ALONG THE LENGTH OF THE BRIDGE. FOR PC OVERLAY THICKNESS, SEE "DECK SURFACE REPAIR" SHEETS.

IF ENCONUNTERED, RETAIN ALL EXISTING REINFORCING STEEL. CLEAN AND REPAIR IF NECESSARY.

THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING JOINT OPENING PRIOR TO ORDERING JOINT SEAL MATERIAL. IF THE ACTUAL OPENING VARIES FROM THE OPENING INDICATED IN THE DETAIL BY MORE THAN ¼", NOTIFY THE ENGINEER. REVISION OF THE JOINT SEAL SIZE MIGHT BE NECESSARY.

THE MANUFACTURER IS TO PROVIDE THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE FOAM JOINT SEAL FOR THE SIZE OF THE OPENING ON THE PLANS AND ACCOMODATE THE MINIMUM EXPANSION SHOWN ON THE PLANS.

FOAM JOINTS SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS.

THE CONTRACTOR SHALL TAKE CARE DURING JOINT REHAB OPERATIONS NOT TO DROP ANY MATERIAL THAT FALLS BELOW THE BRIDGE, WITHOUT PROTECTIVE DEVICES BELOW TO CATCH THE MATERIAL. ANY MATERIAL THAT FALLS BELOW THE BRDIGE SHALL BE CONTAINED, REMOVED AND DISPOSED OF BY THE CONTRATCTOR AT NO EXTRA COST TO THE DEPARTMENT. IF THE ENGINEER DETERMINES THAT THE PROTECTIVE DEVICES ARE NOT ADEQUATE OR NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINTS IN LIEU OF SAWING THE JOINT.

THE INSTALLED FOAM JOINT SHALL BE WATER TIGHT.

QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.

FOR EXCAVATION BELOW THE BOTTOM OF THE PLANNED JOINT DECK DEMOLITION, CONCRETE FOR DECK REPAIRS SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT BOTTOM OF THE PROPOSED ELASTOMERIC CONCRETE FOR PRESERVATION HEADERS SHOWN.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.

IF THE EMBEDDED PORTION OF THE EXISTING PLASTIC WATERSTOP IS EXPOSED DURING REMOVAL OF UNSOUND CONCRETE, OR IF UNSOUND CONCRETE IS REMOVED WITHIN 2" OF THE WATERSTOP, THE ENTIRE CONCRETE DEPTH TO THE WATERSTOPS SHALL BE REMOVED. IF SUCH EXCAVATION EXTENDS MORE THAN 2" BELOW THE BOTTOM OF THE PLANNED ELASTOMERIC CONCRETE HEADER, AS SHOWN, APPROVED REPAIR CONCRETE SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE ELASTOMETIC CONCRETE.

DEMOLISH BRIDGE JOINT AREA SUCH THAT THE BOTTOM OF THE EXCAVATION SHALL BE REASONABLY FLAT AND LEVEL AND TO THE NECESSARY DEPTH, SUCH THAT ELASTOMERIC CONCRETE SHALL BE FOUNDED ON CONCRETE OR REPAIR CONCRETE SUBSTRATE.

PROJECT NO. 15BPR.46
DARE COUNTY
BRIDGE NO. 270012
SHEET 2 OF 2

DocuSigned by: Jacob H. Duke
NORTH CAROLINA PROFESSIONAL SEAL 043777 ENGINEER JACOB H. DUKE
10/19/2021

KCA KISINGER CAMPO & ASSOCIATES
301 FAYETTEVILLE ST., SUITE 1500
RALEIGH, NC 27601 (919) 882-7839
NC FIRM LICENSE: C-1506

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

JOINT DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-21
1			3			TOTAL SHEETS
2			4			137

DRAWN BY : DIEGO A. AGUIRRE DATE : 9/30/2020
CHECKED BY : JACOB H. DUKE DATE : 10/1/2020
DESIGN ENGINEER OF RECORD: JACOB H. DUKE DATE : 10/1/2020

10/19/2021
15BPR.46_SMU_JT02_270012.dgn
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