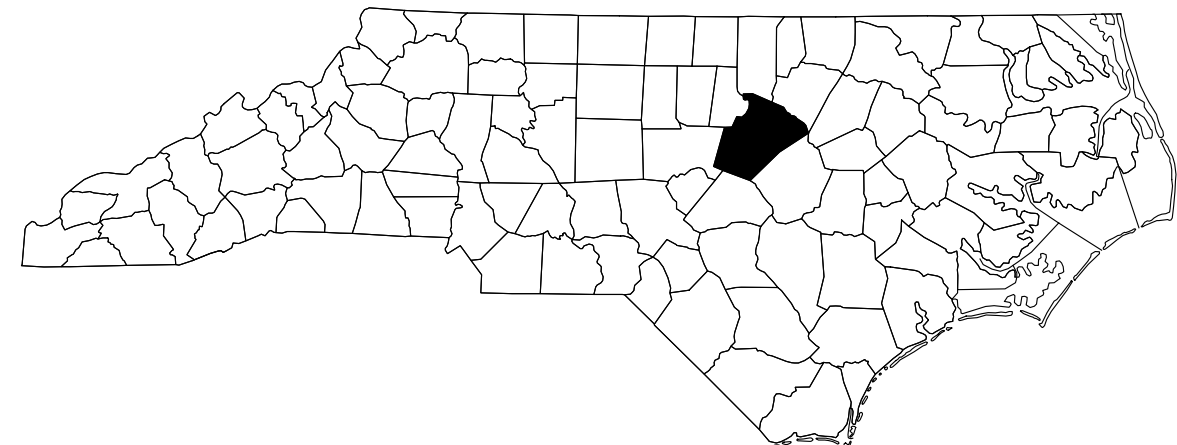


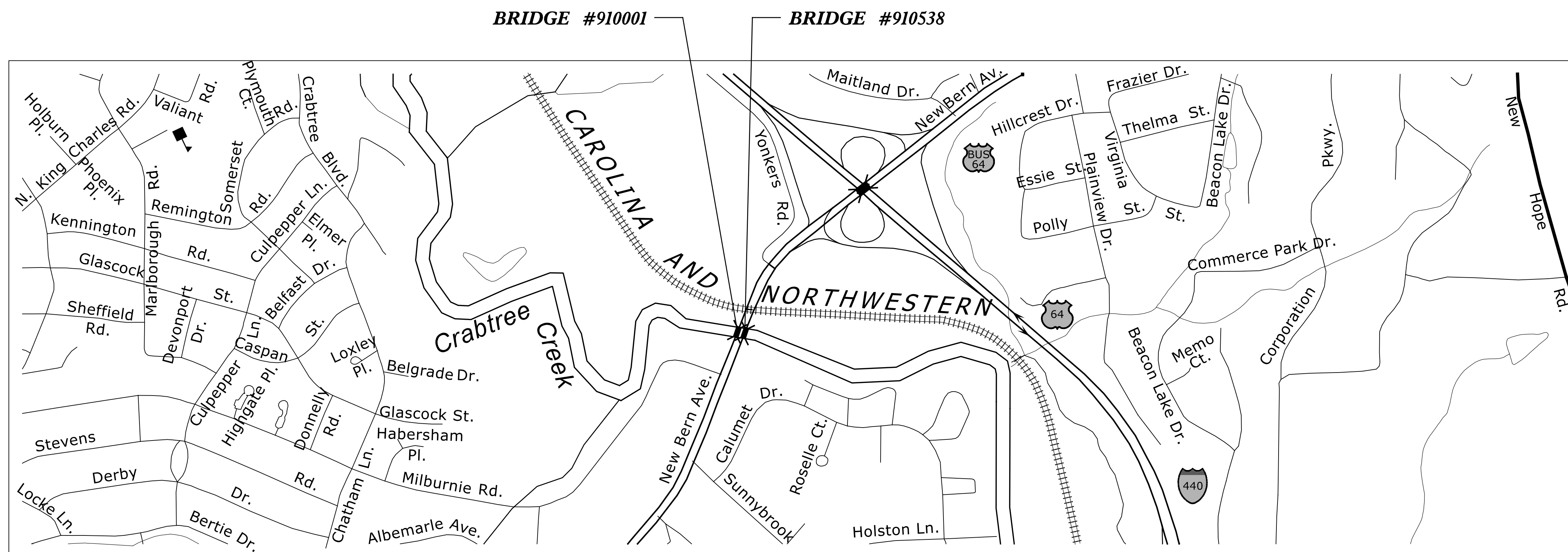


WAKE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	15BPR.144	1	30
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
15BPR.144.1	—	P.E.	
15BPR.144.3	—	CONST.	

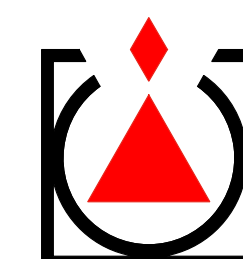
LOCATION: *BRIDGE #910001 ON SR 2911 (NEW BERN AVENUE) WBL OVER CRABTREE CREEK, CRABTREE CREEK GREENWAY, AND CAROLINA COASTAL RAILWAY*
BRIDGE #910538 ON SR 2911 (NEW BERN AVENUE) EBL OVER CRABTREE CREEK, CRABTREE CREEK GREENWAY, AND CAROLINA COASTAL RAILWAY

TYPE OF WORK: BRIDGE REHABILITATION – SCARIFICATION AND HYDRO-DEMOLITION OF DECK CONCRETE, LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH OVERLAY, BEARING REPLACEMENT, JOINT REPLACEMENT, STEEL BEAM REPAIR, SUBSTRUCTURE REPAIR, CLEANING AND PAINTING OF EXISTING STEEL BRIDGE STRUCTURE AND EXISTING WEATHERING STEEL BRIDGE STRUCTURE, MILLING AND PAVING OF APPROACH ROADWAY.

**VICINITY MAP – WAKE COUNTY**

#910001 ADT 2019 = 21,500
#910538 ADT 2017 = 20,500

#910001 = 0.10 MILE
#910538 = 0.10 MILE



GANNETT FLEMING

One Glenwood Avenue
Suite 900
Raleigh, NC 27603
919-420-7660
NC Lic. No. F-0270

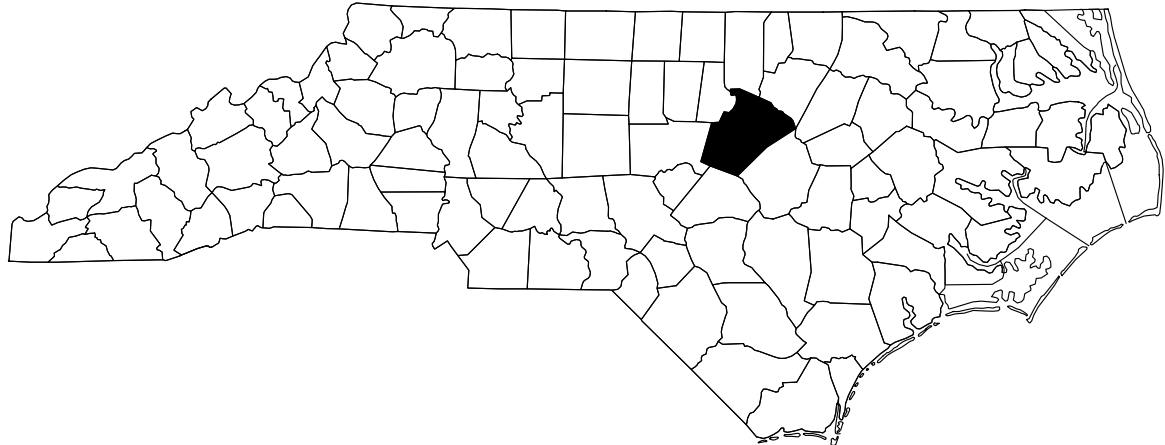
2024 STANDARD SPECIFICATIONS

LETTING DATE:
NOVEMBER 18, 2025



JOHN A. YANNACONE, P.E.
PROJECT DESIGN ENGINEER

CONTRACT NO: C204967 PROJECT: 15BPR.144



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	15BPR.144	1A	30
STATE PROJ.NO.		F.A.PROJ.NO.	DESCRIPTION
15BPR.144.1		—	P.E.
15BPR.144.3		—	CONST.

LOCATION: BRIDGE #910001 ON SR 2911 (NEW BERN AVENUE) WBL OVER CRABTREE CREEK, CRABTREE CREEK GREENWAY, AND CAROLINA COASTAL RAILWAY
BRIDGE #910538 ON SR 2911 (NEW BERN AVENUE) EBL OVER CRABTREE CREEK, CRABTREE CREEK GREENWAY, AND CAROLINA COASTAL RAILWAY

TYPE OF WORK: BRIDGE REHABILITATION – SCARIFICATION AND HYDRO-DEMOLITION OF DECK CONCRETE, LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH OVERLAY, BEARING REPLACEMENT, JOINT REPLACEMENT, STEEL BEAM REPAIR, SUBSTRUCTURE REPAIR, CLEANING AND PAINTING OF EXISTING STEEL BRIDGE STRUCTURE AND EXISTING WEATHERING STEEL BRIDGE STRUCTURE, MILLING AND PAVING OF APPROACH ROADWAY.

INDEX OF DRAWINGS

SHEET NO.

1
1A
S-1

S1-1 TO S1-2

S1-3

S1-4 TO S1-6

S1-7

S1-8

S1-9

S2-1 TO S2-2

S2-3

S2-4 TO S2-7

S2-8

S2-9 TO S2-10

S2-11

S2-12 TO S2-13

S2-14

S2-15

S2-16

SD-1

SD-2

SN

DESCRIPTION

TITLE SHEET
INDEX OF DRAWINGS
TOTAL BILL OF MATERIAL

BRIDGE NO. 910001

GENERAL DRAWINGS
TYPICAL SECTION SURFACE PREPARATION DETAILS
DECK REPAIRS
JOINT DETAILS
SUBSTRUCTURE REPAIRS
APPROACH MILLING AND TYPICAL ROADWAY SECTIONS

BRIDGE NO. 910538

GENERAL DRAWINGS
TYPICAL SECTION SURFACE PREPARATION DETAILS
DECK REPAIRS
JOINT DETAILS
BEAM REPAIR LOCATIONS
STEEL BEAM REPAIR DETAILS
BEARING REPLACEMENT
BRIDGE JACKING
SUBSTRUCTURE REPAIRS
APPROACH MILLING AND TYPICAL ROADWAY SECTIONS

STANDARD DETAILS

OVERHANG UNDERSIDE AND DIAPHRAGM REPAIR DETAILS
TYPICAL CAP AND COLUMN REPAIR DETAILS
STANDARD NOTES

8/26/24

TOTAL BILL OF MATERIAL											
BRIDGE NO.	INCIDENTAL MILLING	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX	GROOVING BRIDGE FLOORS	CLASS II SURFACE PREPARATION	SHOTCRETE REPAIRS	PEDESTRIAN PROTECTION	FIELD MEASURING	CLEANING AND PAINTING EXISTING WEATHERING STEEL FOR BRIDGE #_	CLEANING AND REPAINTING OF BRIDGE #_	POLLUTION CONTROL
	SQ. YDS.	TONS	TONS	SQ. FT.	SQ. YDS.	CU. FT.	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM
910001	450	51	4	16,754	0.5	1.2	LUMP SUM	-	LUMP SUM	-	LUMP SUM
910538	595	69	5	21,089	2.0	18.1	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM*
TOTAL	1,045	120	9	37,843	2.5	19.3	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM

TOTAL BILL OF MATERIAL												
BRIDGE NO.	PAINTING CONTAINMENT FOR BRIDGE #_	FOAM JOINT SEALS FOR PRESERVATION	LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	ELASTOMERIC CONCRETE FOR PRESERVATION	BRIDGE JOINT DEMOLITION	EPOXY COATING	BEAM REPAIR CUT-OUT	SCARIFYING BRIDGE DECK	HYDRO-DEMOLITION OF BRIDGE DECK	PLACING & FINISHING OF LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	TYPE II BRIDGE JACKING BRIDGE NO._	ELASTOMERIC BEARING, MODIFIED
	LUMP SUM	LIN. FT.	CU. YDS.	CU. FT.	SQ. FT.	SQ. FT.	LBS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	EA.	EA.
910001	LUMP SUM	91.0	98.0	21.8	88	320	-	2,015.8	2,015.8	2,015.8	-	-
910538	LUMP SUM*	504.5	121.8	121.4	486	434	515	2,506.6	2,506.6	2,506.6	14	56
TOTAL	LUMP SUM	595.5	219.8	143.2	574	754	515	4,522.4	4,522.4	4,522.4	14	56

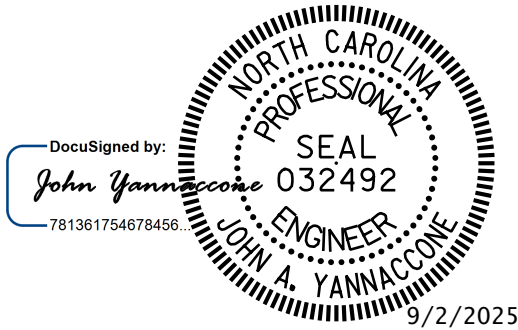
NOTE:

* BRIDGE 910358 CONSISTS OF PAINTED STEEL BEAMS AND WEATHERING STEEL BEAMS. REFER TO THE SPECIAL PROVISIONS “PAINTING EXISTING STRUCTURE” AND “PAINTING EXISTING WEATHERING STEEL STRUCTURE” TO DETERMINE THE REQUIREMENTS FOR EACH BEAM TYPE FOR THE BID ITEMS “POLLUTION CONTROL” AND “PAINTING CONTAINMENT FOR BRIDGE #_”.

AT THE TIME OF PREPARATION OF THESE PLANS, IT WAS NOT ANTICIPATED THAT THE ITEM(S) LISTED BELOW WOULD BE REQUIRED. HOWEVER, IT MAY BE DETERMINED IN THE FIELD THAT THE FOLLOWING ITEM(S) LISTED, OR OTHER WORK WILL BE NECESSARY TO PROPERLY COMPLETE THE INTENDED BRIDGE PRESERVATION/REHABILITATION WORK. THE CONTRACTOR SHALL BE PREPARED TO PERFORM SUCH WORK IN A TIMELY MANNER, AS DETERMINED IN THE FIELD. SUCH WORK SHALL BE CONSIDERED EXTRA WORK AND SHALL BE ADDRESSED AS PER ARTICLE 104-7 OF THE STANDARD SPECIFICATIONS. PROJECT SPECIAL PROVISIONS THAT OUTLINE REQUIREMENTS FOR THESE POTENTIAL ADDITIONAL WORK ITEMS HAVE BEEN PROVIDED IN THE PROJECT DOCUMENTS, BUT NO QUANTITIES HAVE BEEN LISTED. ACTUAL PAY ITEMS, QUANTITIES, AND COSTS WILL BE ESTABLISHED, AS REQUIRED, IF EXTRA WORK IS ENCOUNTERED.

UNANTICIPATED ITEMS:
CLASS III SURFACE PREPARATION
VOLUMETRIC MIXER
TYPE I BRIDGE JACKING BRIDGE NO. __

PROJECT NO. **15BPR.144**
WAKE COUNTY
BRIDGE: **910001**
910538



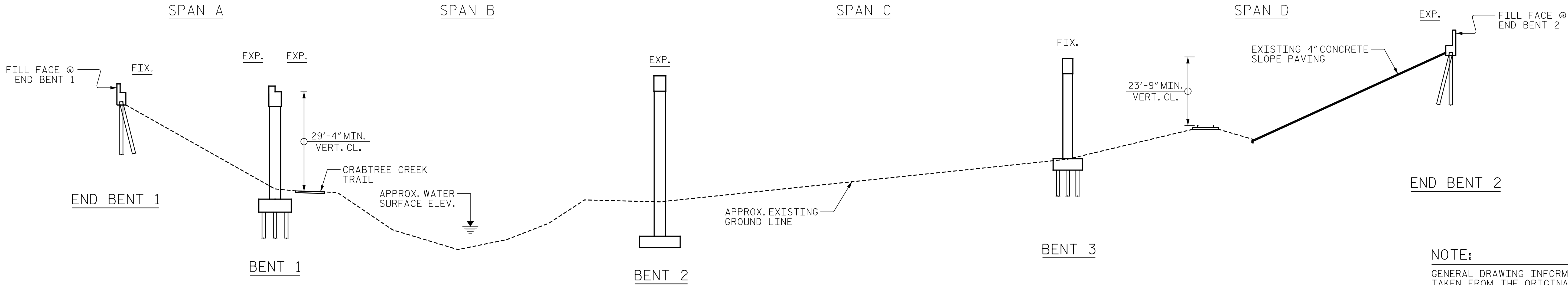
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TOTAL BILL
OF MATERIAL

DRAWN BY : J. MYA DATE : 9/2024
CHECKED BY : J. YANNACCONE DATE : 9/2024

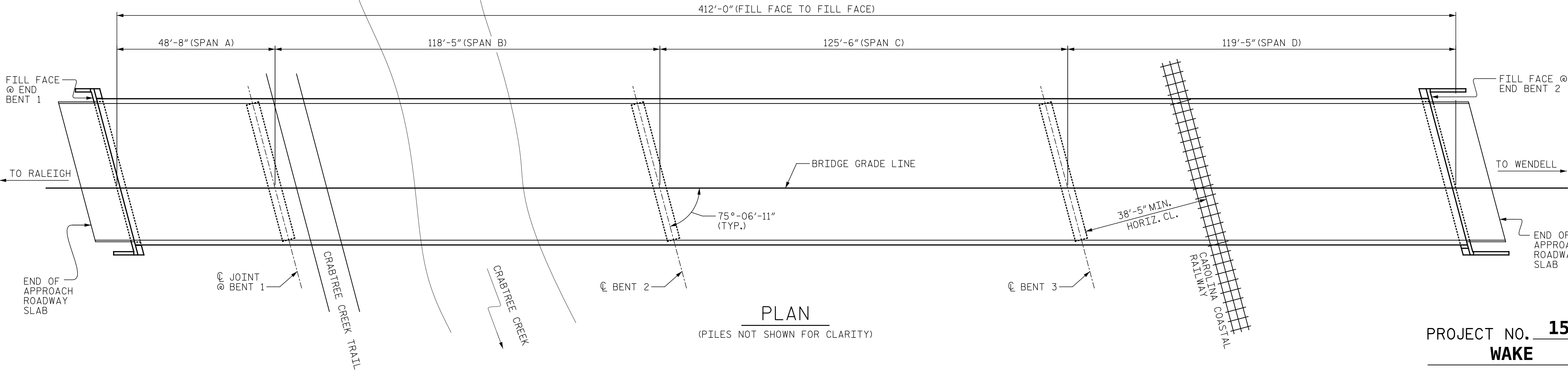
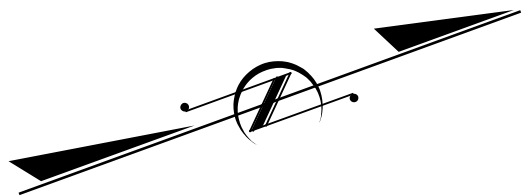


REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			5-1
2			4			TOTAL SHEETS 30



NOTE:
GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/21/2024.

BRIDGE ORIENTATION CONFORMS TO THE EXISTING BRIDGE PLANS AND ROUTINE INSPECTION REPORT.



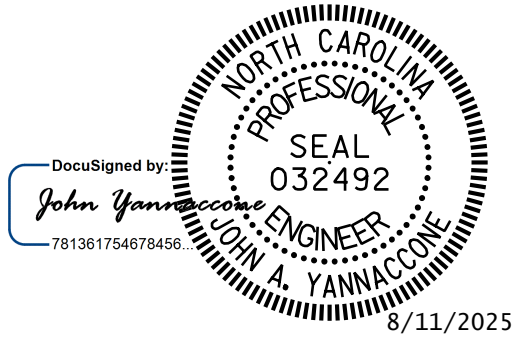
SCOPE OF WORK

- PARTIALLY REMOVE TOP OF BRIDGE DECK CONCRETE BY SCARIFICATION AND HYDRO-DEMOLITION..
- CLEAN AND ZONE PAINT EXISTING STRUCTURAL WEATHERING STEEL BEAMS.
- OVERLAY PREPARED TOP OF BRIDGE DECK WITH VERY EARLY STRENGTH LATEX MODIFIED CONCRETE (LMC-VES).
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING.
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS.
- REMOVE UNSOUND CONCRETE AND PROPERLY PREPARE EXISTING END BENT AND BENT AREAS FOR SHOTCRETE AND CONCRETE REPAIRS.
- GROOVE LMC-VES BRIDGE DECK.
- MILL AND REPAVE ASPHALT APPROACH ROADWAYS.

I HEREBY CERTIFY THAT THIS STRUCTURE WAS REHABILITATED ACCORDING TO THESE PLANS OR AS NOTED HEREIN.

RESIDENT ENGINEER

DATE



PROJECT NO. **15BPR.144**
WAKE COUNTY
BRIDGE: **910001**

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
GENERAL DRAWING
FOR BRIDGE ON SR 2911 WBL
(NEW BERN AVE) OVER
CRABTREE CREEK, CRABTREE
CREEK GREENWAY AND CAROLINA
COASTAL RAILWAY

DRAWN BY : **Z. BLINSON** DATE : **9/2024**
CHECKED BY : **J. YANNACONE** DATE : **9/2024**



One Glenwood Avenue
Suite 900
Raleigh, NC 27603
919-420-7660
NC Lic. No. F-0270

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
				TOTAL SHEETS	30



LOCATION SKETCH

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

GENERAL NOTES

SEE CONTRACT DOCUMENTS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF OVERLAY SURFACE PREPARATION AND LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH PLACEMENT.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT DUE TO THE NATURE OF PRESERVATION PROJECTS, THE EXTENT OF WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO COMMENCEMENT OF WORK. REPAIR LOCATIONS AND ESTIMATES OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS.

EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN WHAT IS SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS.

WORK ON THE BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW, EXCEPT WHERE THE CONTRACTOR'S PLAN USES PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES TO CATCH THE MATERIAL. THE CONTRACTOR SHALL SUBMIT PLANS FOR CONSTRUCTION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS.

ANY DAMAGE TO EXISTING REINFORCING STEEL DURING CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST TO THE DEPARTMENT.

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE CONTRACT DOCUMENTS.

PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASKS FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE RAILROAD TRACK TOP OF RAIL TO BOTTOM OF BEAM VERTICAL CLEARANCES ON THE PLANS ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE TOP OF RAIL TO BOTTOM OF BEAM CLEARANCES AND REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.

ALL PAVEMENT MARKING WILL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATIONS OF THE BRIDGE DECK. THE CONTRACTOR SHALL TAKE CARE THAT ANY CONSTRUCTION DEBRIS THAT COLLECTS IN THE DRAINS IS CONTAINED. DRAINS IN SHOULDERS OF ADJACENT TRAVEL LANES SHALL BE KEPT FREE AND CLEAR OF DEBRIS.

LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG THE CENTERLINE OR EDGE OF TRAVEL LANES.

INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR ITEMS ASSOCIATED WITH THE CLEANING AND REPAINTING OF BRIDGE.

FOR PAINTING EXISTING STRUCTURE, SEE SPECIAL PROVISIONS.

FOR PAINTING CONTAINMENT AND POLLUTION CONTROL, SEE PAINTING EXISTING WEATHERING STEEL STRUCTURES SPECIAL PROVISION.

FOR PAINTING EXISTING WEATHERING STEEL STRUCTURES, SEE SPECIAL PROVISIONS.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR OVERLAY OF BRIDGE WITH LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH, SEE SPECIAL PROVISION.

FOR LMC OVERLAY SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS, SEE LMC OVERLAY SURFACE PREPARATION SPECIAL PROVISION.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR EPOXY COATING AND DEBRIS REMOVAL, SEE SPECIAL PROVISIONS.

FOR PEDESTRIAN PROTECTION, SEE SPECIAL PROVISIONS.

FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.

FOR VOLUMETRIC MIXER, SEE SPECIAL PROVISIONS.

BRIDGE COORDINATES

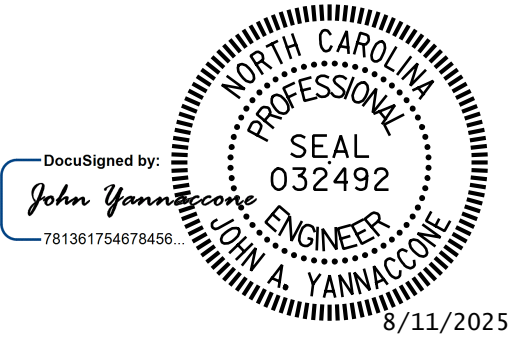
LATITUDE	LONGITUDE
35°-47'-28.29"	78°-35'-10.70"

PROJECT NO. **15BPR.144**

WAKE COUNTY

BRIDGE: **910001**

SHEET 2 OF 2



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE ON SR 2911 WBL
(NEW BERN AVE) OVER
CRABTREE CREEK, CRABTREE
CREEK GREENWAY AND CAROLINA
COASTAL RAILWAY

DRAWN BY : **Z. BLINSON** DATE : **9/2024**
CHECKED BY : **J. YANNACCONE** DATE : **9/2024**

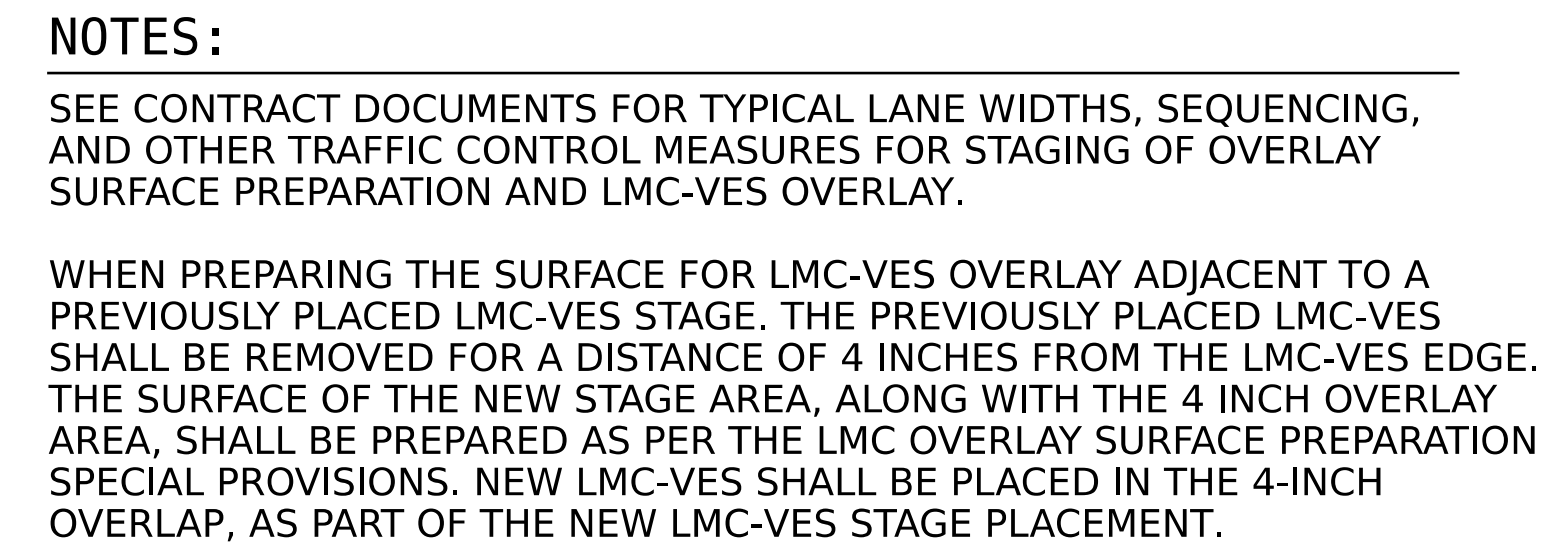


One Glenwood Avenue
Suite 900
Raleigh, NC 27603
919-420-7660
NC Lic. No. F-0270

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS				
NO.	BY:	DATE:	NO.	DATE:
1			3	
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SHEET NO.
S1-2
TOTAL SHEETS
30



(PROPOSED)

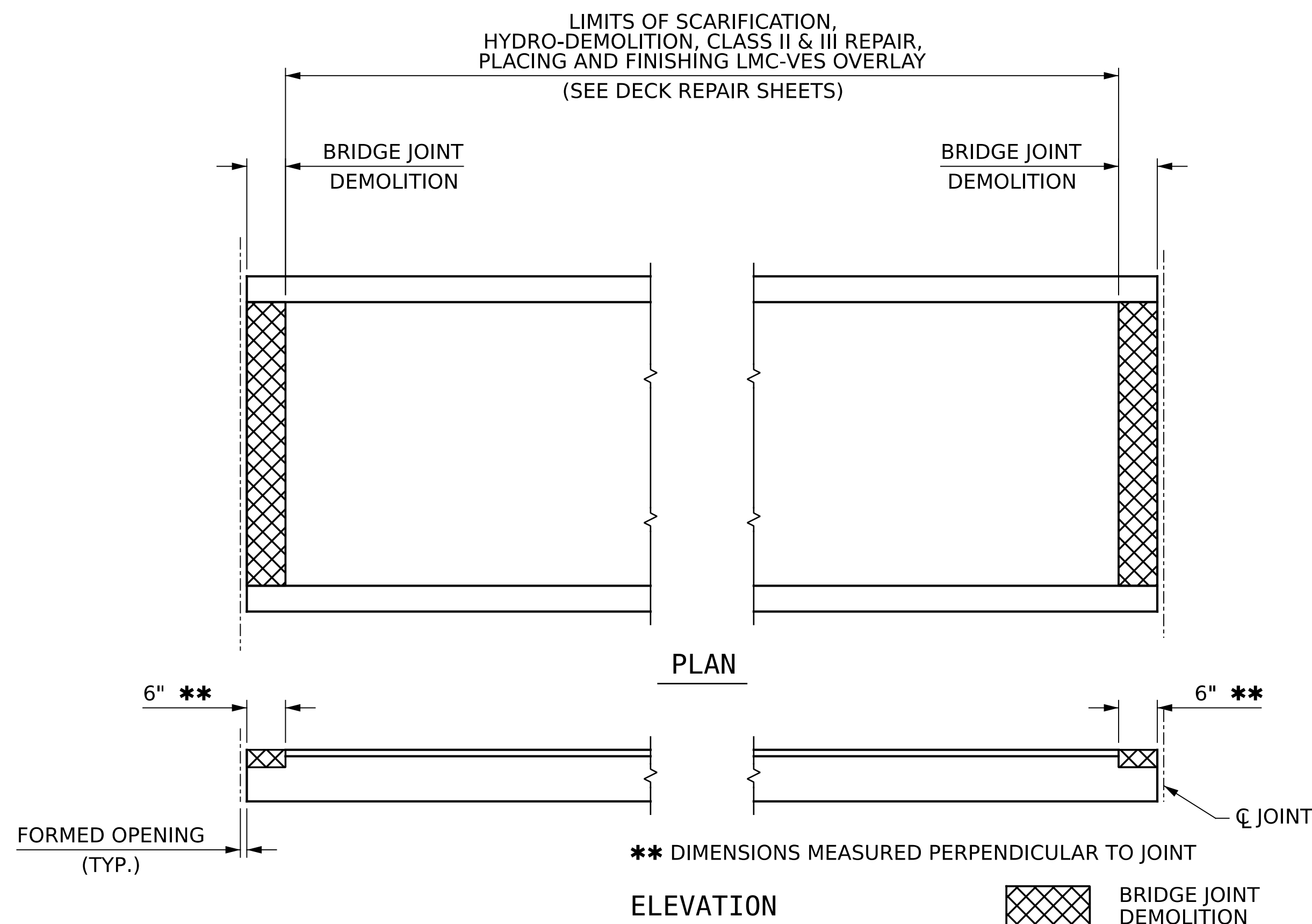
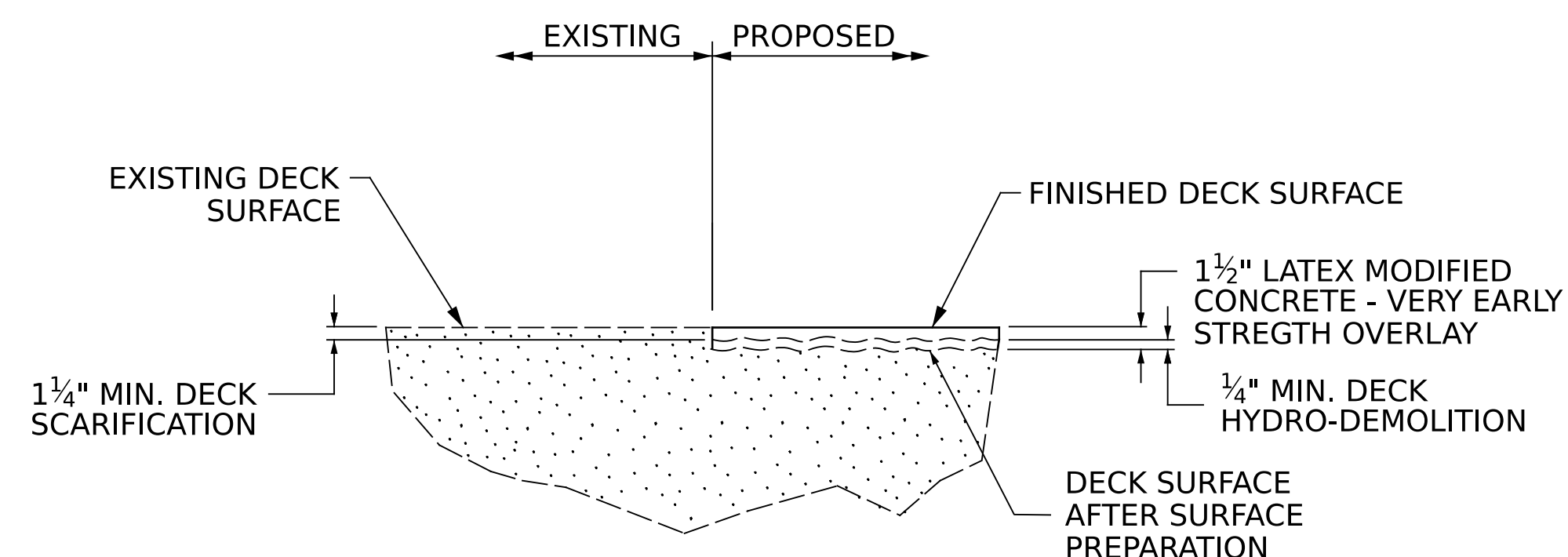


Diagram illustrating the SECTION THRU DECK showing the placement of a STAGED LMC-VES OVERLAY.

Labels and Dimensions:

- EXISTING BRIDGE DECK
- DECK SURFACE BEFORE OVERLAY PLACEMENT
- 1 1/2" OVERLAY THICKNESS ON BRIDGE DECK
- STAGED LMC-VES OVERLAY
- LOCATION OF LONGITUDINAL JOINT
- PREVIOUSLY PLACED LMC-VES
- * 4" OVERLAP BETWEEN OVERLAYS

(AS NEEDED)



PROJECT NO. **15BPR.144**
WAKE COUNTY
 BRIDGE: **910001**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION AND SURFACE PREPARATION DETAILS



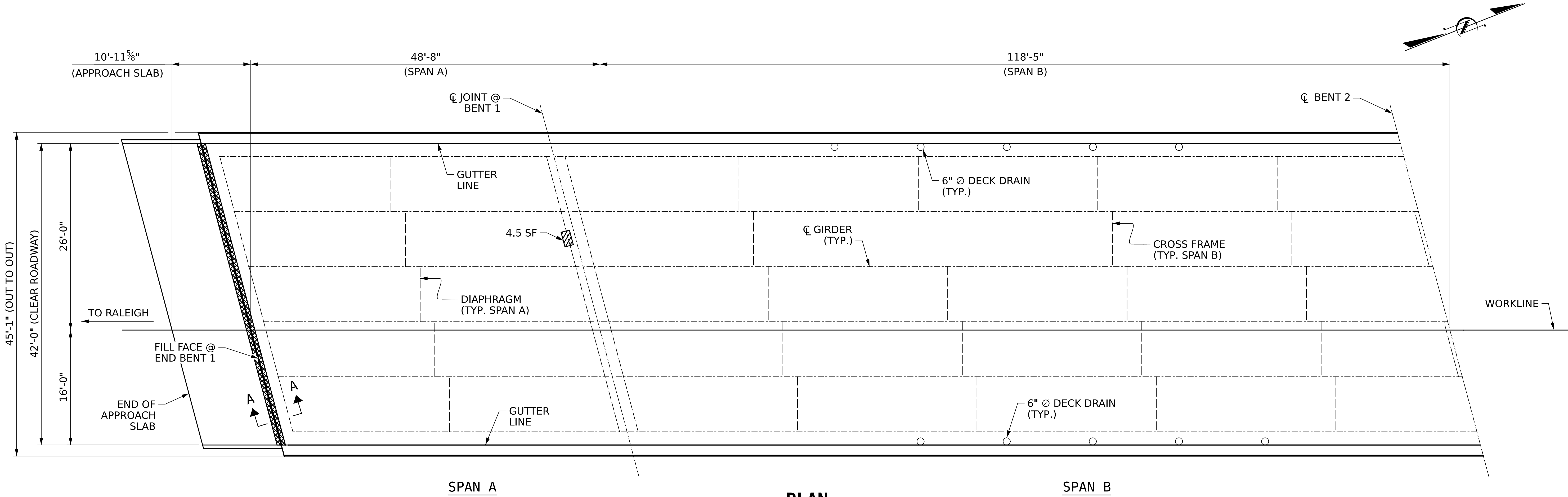
**GANNETT
FLEMING**

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D	REVISIONS						SHEET NO.
	NO.	BY:	DATE:	NO.	BY:	DATE:	S1-3
	1			3			TOTAL SHEETS 30
	2			4			

8/26/21



AS-BUILT QUANTITY REPAIR TABLE

DECK SURFACE REPAIR & APPROACH SLAB REPAIR				DECK UNDERSIDE REPAIR						
		ESTIMATE	ACTUAL	SHOTCRETE REPAIRS		ESTIMATE		ACTUAL		
SCARIFYING BRIDGE DECK	APPROACH SLAB @ END BENT 1	56.0 SQ. YDS.				AREA SF	VOLUME CF	AREA SF	VOLUME CF	
	SPAN A	217.8 SQ. YDS.		UNDERSIDE OF DECK	SPAN A	0.0	0.0			
	SPAN B	550.9 SQ. YDS.			SPAN B	0.0	0.0			
HYDRO- DEMOLITION OF BRIDGE DECK	APPROACH SLAB @ END BENT 1	56.0 SQ. YDS.		INTERIOR DIAPHRAGMS	SPAN A	0.0	0.0			
	SPAN A	217.8 SQ. YDS.			SPAN B	0.0	0.0			
	SPAN B	550.9 SQ. YDS.		OVERHANG DIAPHRAGMS	SPAN A	0.0	0.0			
BRIDGE JOINT DEMOLITION	APPROACH SLAB @ END BENT 1	22 SQ. FT.			SPAN B	0.0	0.0			
	SPAN A	22 SQ. FT.		UNDERSIDE OF OVERHANG	SPAN A	0.0	0.0			
	SPAN B	0.0 SQ. FT.			SPAN B	0.0	0.0			
CLASS II SURFACE PREPARATION	APPROACH SLAB @ END BENT 1	0.0 SQ. YDS.					ESTIMATE		ACTUAL	
	SPAN A	0.5 SQ. YDS.		UNDERSIDE EPOXY RESIN INJECTION	SPAN A		0.0 LIN.FT.			
	SPAN B	0.0 SQ. YDS.			SPAN B		0.0 LIN.FT.			
LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	APPROACH SLAB @ END BENT 1	2.7 CU. YDS.		VALUES IN CHART REPRESENT ESTIMATED UNDERSIDE OF DECK REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEAR TO SAW CUT. SEE REPAIR DETAILS.						
	SPAN A	10.6 CU. YDS.								
	SPAN B	26.8 CU. YDS.								
PLACING AND FINISHING LMC-VES	APPROACH SLAB @ END BENT 1	56.0 SQ. YDS.		PAYMENT FOR CLASS II AND CLASS III SURFACE PREPARATION IS BASED ON THE SQUARE YARDS OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE "LMC OVERLAY SURFACE PREPARATION" SPECIAL PROVISION.						
	SPAN A	217.8 SQ. YDS.								
	SPAN B	550.9 SQ. YDS.								
GROOVING BRIDGE FLOORS	APPROACH SLAB @ END BENT 1	455 SQ. FT.								
	SPAN A	1806 SQ. FT.								
	SPAN B	4597 SQ. FT.								

NOTES:

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

CONCRETE COVER FOR TOP BARS IN THE DECK SLAB IS 2½" PER THE EXISTING BRIDGE PLANS.

FOR SECTION A-A, SEE "JOINT DETAILS" SHEET.

FOR LMC OVERLAY SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

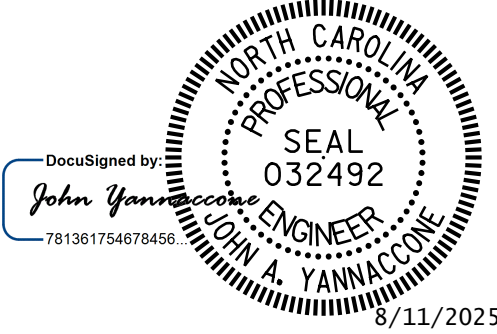
FOR LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

- SCARIFYING BRIDGE DECK
- BRIDGE JOINT DEMOLITION
- CLASS II SURFACE PREPARATION
- UNDERSIDE OF DECK REPAIR
- CONCRETE WORK FOR JOINT REPLACEMENT
- ERI EPOXY RESIN INJECTION

PROJECT NO. **15BPR.144**
WAKE COUNTY
BRIDGE: **910001**

SHEET 1 OF 3



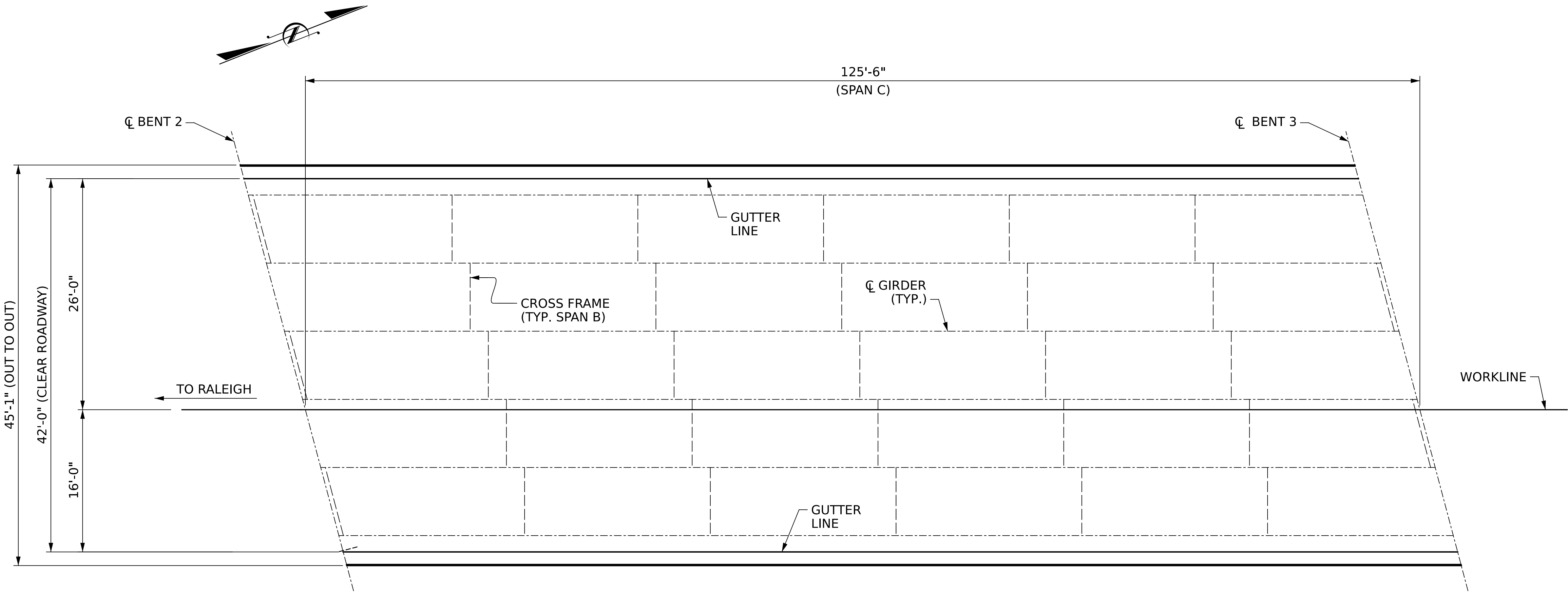
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
DECK REPAIRS
**PLAN OF SPANS A-B
WITH APPROACH SLAB**

DRAWN BY : J. MYA DATE : 9/2024
CHECKED BY : J. YANNACCON DATE : 9/2024



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REVISIONS						SHEET NO.
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1			3			S1-4 TOTAL SHEETS 30
2			4			



SPAN C
PLAN

AS-BUILT QUANTITY REPAIR TABLE

DECK SURFACE REPAIR & APPROACH SLAB REPAIR				DECK UNDERSIDE REPAIR					
		ESTIMATE	ACTUAL	SHOTCRETE REPAIRS		ESTIMATE		ACTUAL	
						AREA SF	VOLUME CF	AREA SF	VOLUME CF
SCARIFYING BRIDGE DECK	SPAN C	585.7 SQ. YDS.							
HYDRO-DEMOLITION OF BRIDGE DECK	SPAN C	585.7 SQ. YDS.		UNDERSIDE OF DECK	SPAN C	0.0	0.0		
BRIDGE JOINT DEMOLITION	SPAN C	0.0 SQ. FT.		INTERIOR DIAPHRAGMS	SPAN C	0.0	0.0		
CLASS II SURFACE PREPARATION	SPAN C	0.0 SQ. YDS.		OVERHANG DIAPHRAGMS	SPAN C	0.0	0.0		
LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	SPAN C	28.5 CU. YDS.		UNDERSIDE OF OVERHANG	SPAN C	0.0	0.0		
PLACING AND FINISHING LMC-VES	SPAN C	585.7 SQ. YDS.				ESTIMATE		ACTUAL	
GROOVING BRIDGE FLOORS	SPAN C	4895 SQ. FT.		UNDERSIDE EPOXY RESIN INJECTION	SPAN C	0.0 LIN.FT.			

VALUES IN CHART REPRESENT ESTIMATED UNDERSIDE OF DECK REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEAR TO SAW CUT. SEE REPAIR DETAILS.

PAYMENT FOR CLASS II AND CLASS III SURFACE PREPARATION IS BASED ON THE SQUARE YARDS OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE "LMC OVERLAY SURFACE PREPARATION" SPECIAL PROVISION.

NOTES:

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

CONCRETE COVER FOR TOP BARS IN THE DECK SLAB IS 2½" PER THE EXISTING BRIDGE PLANS.

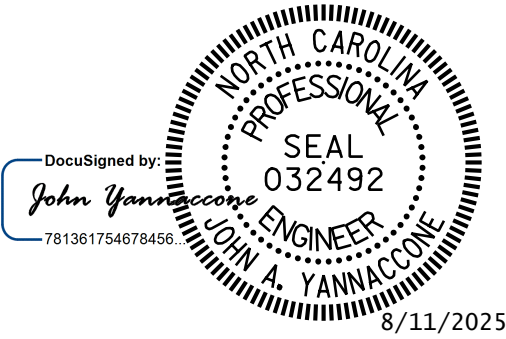
FOR LMC OVERLAY SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

FOR LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

- SCARIFYING BRIDGE DECK
- BRIDGE JOINT DEMOLITION
- CLASS II SURFACE PREPARATION
- UNDERSIDE OF DECK REPAIR
- CONCRETE WORK FOR JOINT REPLACEMENT
- ERI
- EPOXY RESIN INJECTION

PROJECT NO. **15BPR.144**
WAKE COUNTY
BRIDGE: **910001**

SHEET 2 OF 3



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
DECK REPAIRS
SPAN C

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
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2			4		

S1-5
TOTAL SHEETS
30

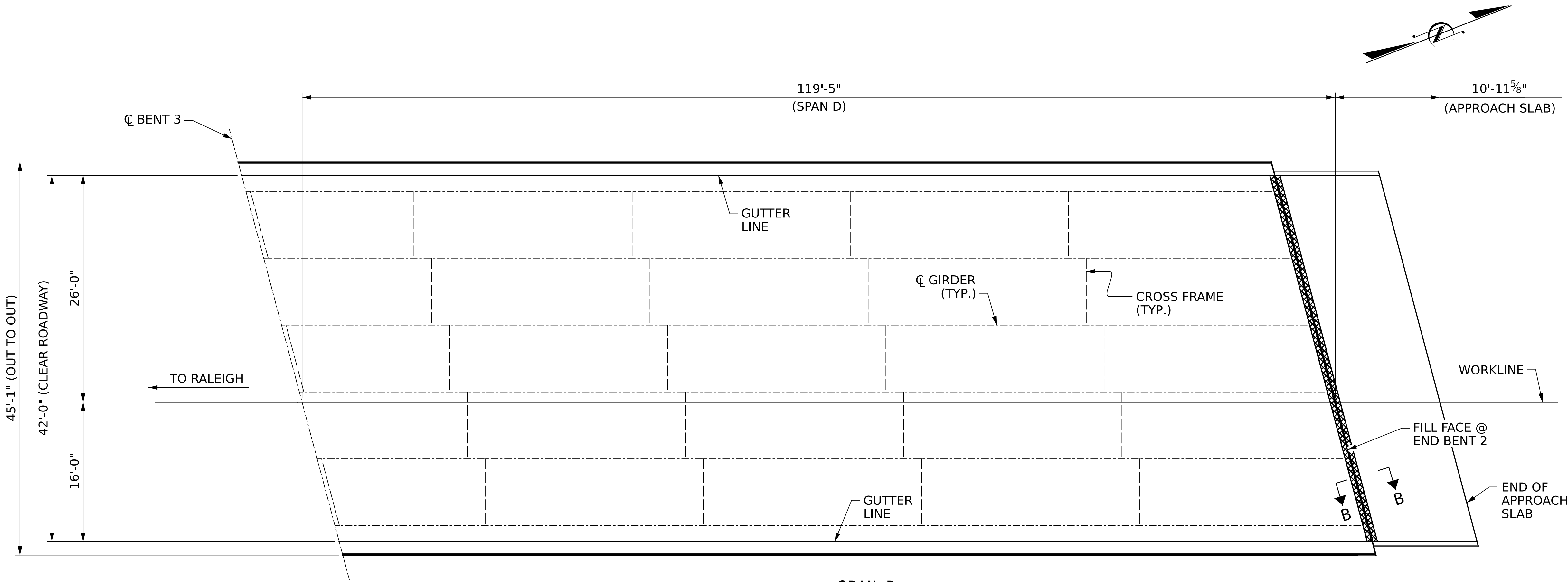
DRAWN BY : J. MYA DATE : 9/2024
CHECKED BY : J. YANNACCONE DATE : 9/2024

GANNETT FLEMING

One Glenwood Avenue
Suite 900
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919-420-7660
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8/26/21



SPAN D

PLAN

AS-BUILT QUANTITY REPAIR TABLE

AS-BUILT QUANTITY REPAIR TABLE										
DECK SURFACE REPAIR & APPROACH SLAB REPAIR				DECK UNDERSIDE REPAIR						
		ESTIMATE	ACTUAL	SHOTCRETE REPAIRS		ESTIMATE		ACTUAL		
SCARIFYING BRIDGE DECK	SPAN D	549.4 SQ. YDS.				AREA SF	VOLUME CF	AREA SF	VOLUME CF	
	APPROACH SLAB @ END BENT 2	56.0 SQ. YDS.								
HYDRO- DEMOLITION OF BRIDGE DECK	SPAN D	549.4SQ. YDS.		UNDERSIDE OF DECK	SPAN D	0.0	0.0			
	APPROACH SLAB @ END BENT 2	56.0 SQ. YDS.		INTERIOR DIAPHRAGMS	SPAN D	0.0	0.0			
BRIDGE JOINT DEMOLITION	SPAN D	22 SQ. FT.		OVERHANG DIAPHRAGMS	SPAN D	0.0	0.0			
	APPROACH SLAB @ END BENT 2	22 SQ. FT.		UNDERSIDE OF OVERHANG	SPAN D	0.0	0.0			
CLASS II SURFACE PREPARATION	SPAN D	0.0 SQ. YDS.					ESTIMATE		ACTUAL	
	APPROACH SLAB @ END BENT 2	0.0 SQ. YDS.		UNDERSIDE EPOXY RESIN INJECTION	SPAN D	0.0 LIN.FT.				
LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	SPAN D	26.7 CU. YDS.		VALUES IN CHART REPRESENT ESTIMATED UNDERSIDE OF DECK REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEAR TO SAW CUT. SEE REPAIR DETAILS.						
	APPROACH SLAB @ END BENT 2	2.7 CU. YDS.								
PLACING AND FINISHING LMC-VES	SPAN D	549.4 SQ. YDS.		PAYMENT FOR CLASS II AND CLASS III SURFACE PREPARATION IS BASED ON THE SQUARE YARDS OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE "LMC OVERLAY SURFACE PREPARATION" SPECIAL PROVISION.						
	APPROACH SLAB @ END BENT 2	56.0 SQ. YDS.								
GROOVING BRIDGE FLOORS	SPAN D	4546 SQ. FT.								
	APPROACH SLAB @ END BENT 2	455 SQ. FT.								

NOTES:

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

CONCRETE COVER FOR TOP BARS IN THE DECK SLAB IS 2½" PER THE EXISTING BRIDGE PLANS.

FOR SECTION B-B, SEE "JOINT DETAILS" SHEET.

FOR LMC OVERLAY SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

FOR LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

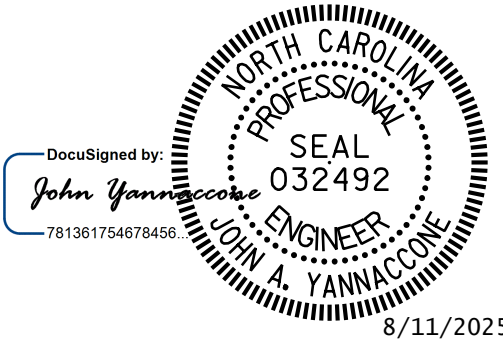
FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

- SCARIFYING BRIDGE DECK
- BRIDGE JOINT DEMOLITION
- CLASS II SURFACE PREPARATION
- UNDERSIDE OF DECK REPAIR
- CONCRETE WORK FOR JOINT REPLACEMENT
- ERI

EPOXY RESIN INJECTION

PROJECT NO. **15BPR.144**
WAKE COUNTY
BRIDGE: **910001**

SHEET 3 OF 3



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
DECK REPAIRS
SPAN D WITH
APPROACH SLAB

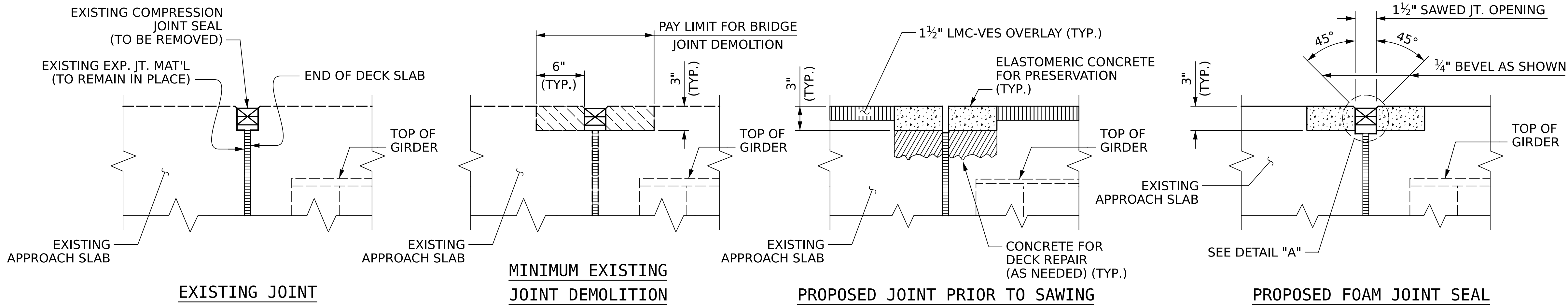
DRAWN BY : **J. MYA** DATE : **9/2024**
CHECKED BY : **J. YANNACCON** DATE : **9/2024**



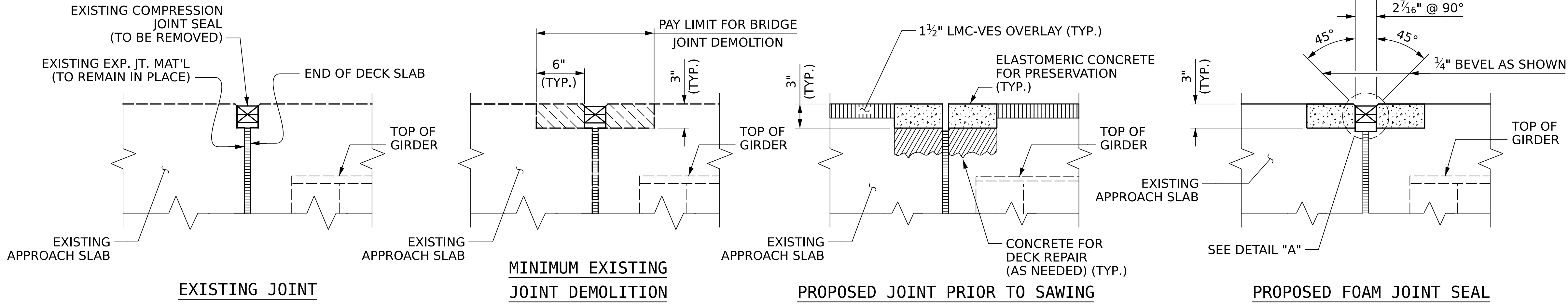
One Glenwood Avenue
Suite 900
Raleigh, NC 27603
919-420-7660
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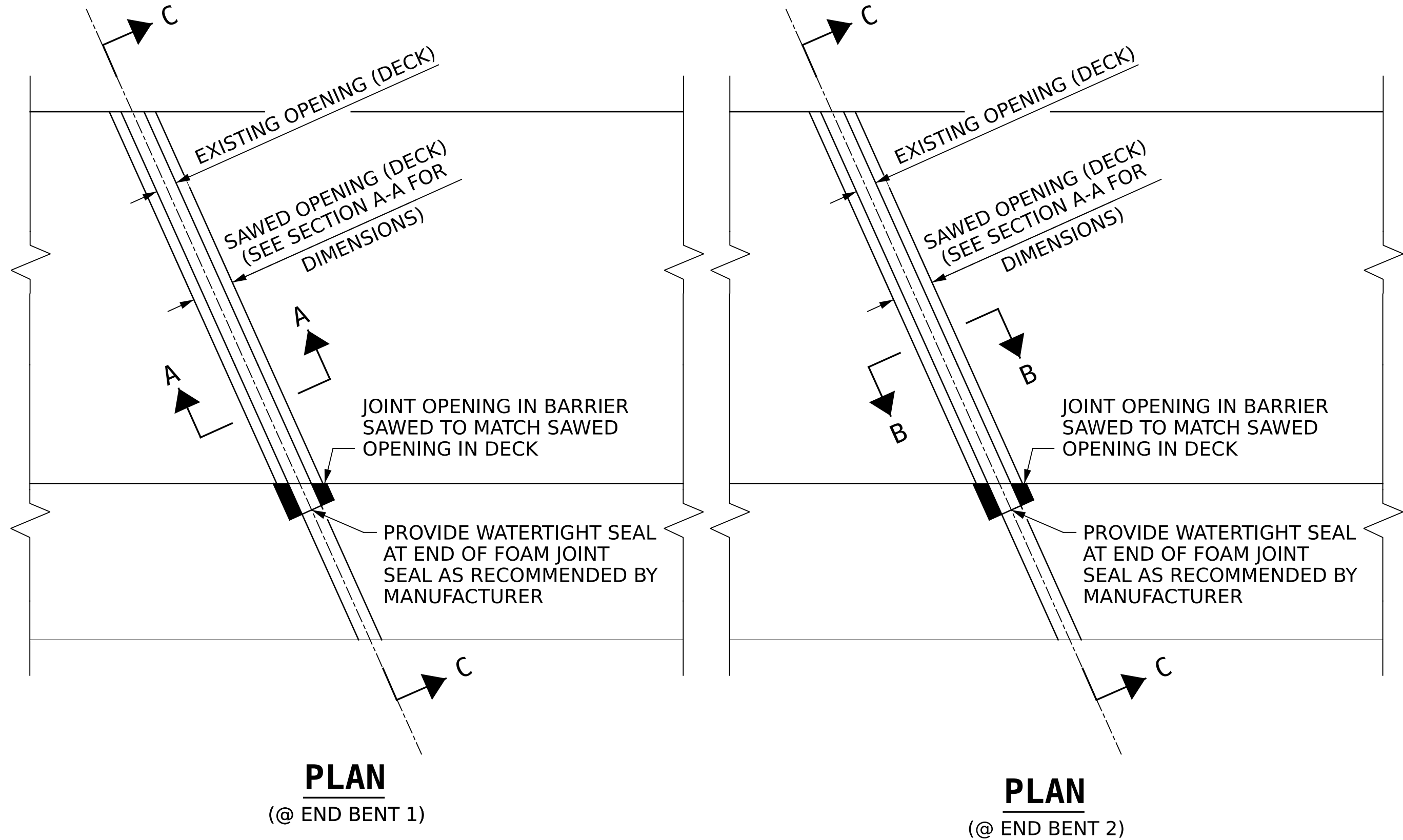
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S1-6
2			4			
TOTAL SHEETS						30



SECTION A-A

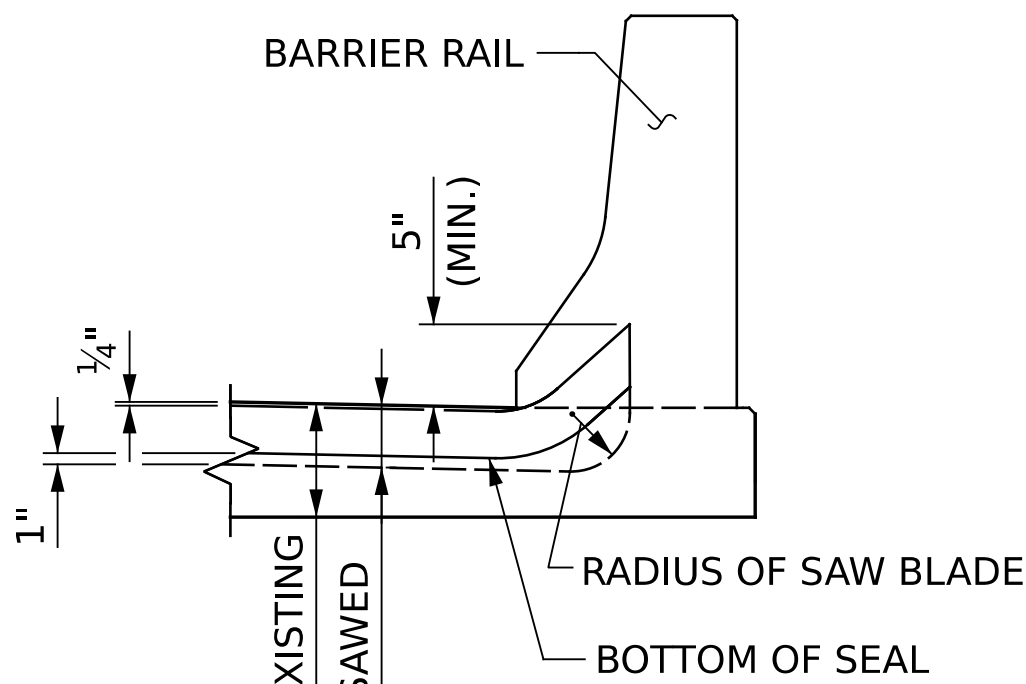


SECTION B-B

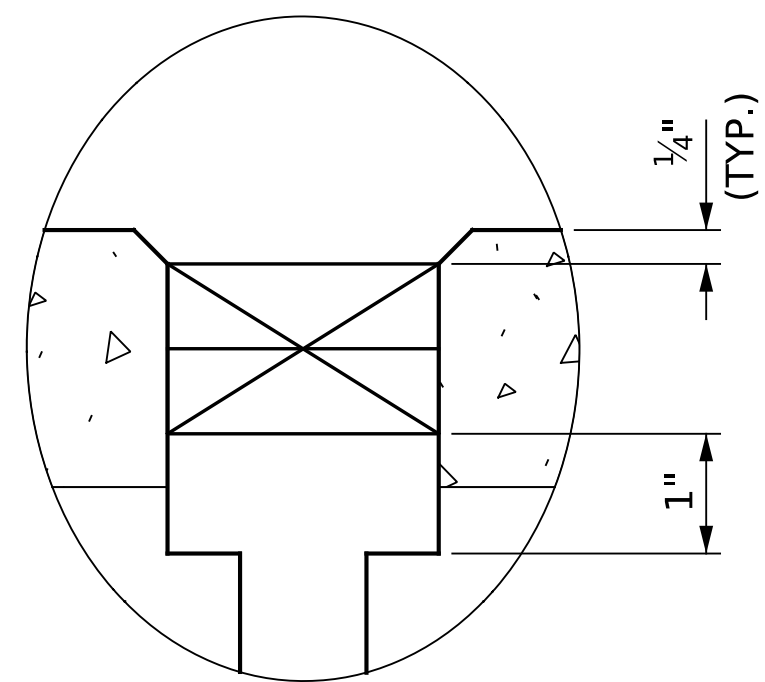


LOCATION	ELASTOMERIC CONCRETE FOR PRESERVATION	FOAM JOINT SEALS FOR PRESERVATION
	CU. FT.	LIN. FT.
END BENT 1	10.9	45.5
END BENT 2	10.9	45.5
TOTAL	21.8	91.0

* BASED ON MINIMUM BLOCKOUT SHOWN



FOAM JOINT SEAL SHALL BE FACTORY FORMED OR CUT, HEAT WELDED AND TURNED UP PARALLEL TO SLOPED FACE OF CURB.



NOTES:

FINAL JOINT SEALS SHALL NOT BE INSTALLED UNTIL THE OVERLAY OR SEALANT WORK IS COMPLETE.

THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING JOINT OPENING PRIOR TO ORDERING JOINT SEAL MATERIAL. IF THE ACTUAL JOINT OPENING VARIES FROM THE OPENING INDICATED IN THE DETAILS BY MORE THAN ¼", NOTIFY THE ENGINEER.

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 ACCOMMODATE 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 BELOW THE BRIDGE WITHOUT PROTECTIVE DEVICES BELOW TO CATCH THE MATERIAL. ANY MATERIAL THAT FALLS BELOW THE BRIDGE SHALL BE CONTAINED, REMOVED AND DISPOSED OF BY THE CONTRACTOR 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 JOINT IN LIEU OF SAWING THE JOINT.

THE INSTALLED FOAM JOINTS SHALL BE WATERTIGHT.

THE CONTRACTOR SHALL SAW CUT TO A NOMINAL DEPTH OF ½" BUT REINFORCING STEEL SHALL NOT BE DAMAGED. CONTRACTOR SHALL REMOVE SURFACE CONCRETE TO VERIFY THAT SAWCUT DEPTH WILL NOT DAMAGE EXISTING REINFORCING STEEL.

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

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

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

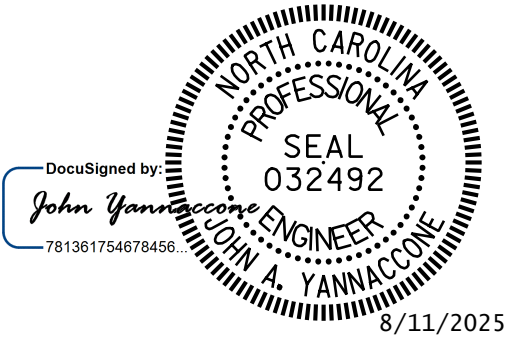
FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR VOLUMETRIC MIXER, SEE SPECIAL PROVISIONS.

PROJECT NO. **15BPR.144**
WAKE COUNTY
BRIDGE: **910001**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

JOINT DETAILS



DRAWN BY : J. MYA DATE : 9/2024
CHECKED BY : J. YANNACONE DATE : 9/2024



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919-420-7660
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2			4			
TOTAL SHEETS						30

GIRDER NUMBER
(TYP.)

SPAN B

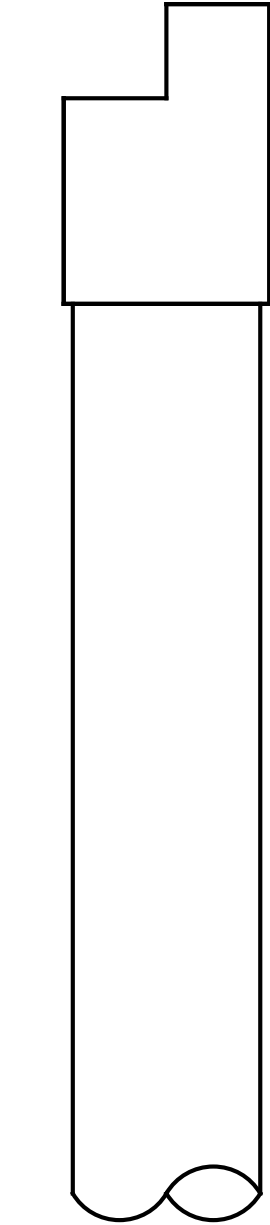
SPAN A

TOP OF CAP

SPAN B

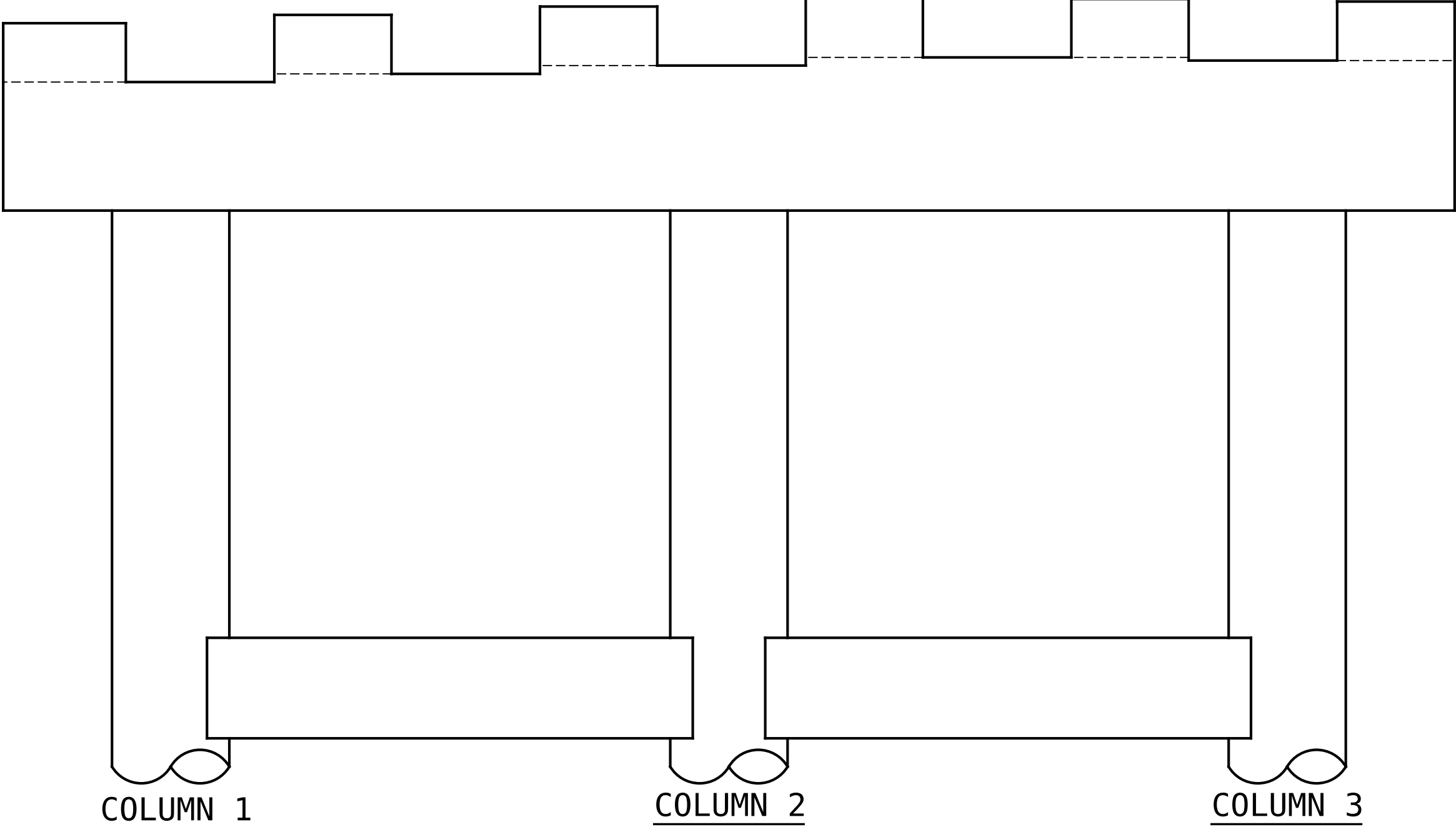
SPAN A

BOTTOM OF CAP



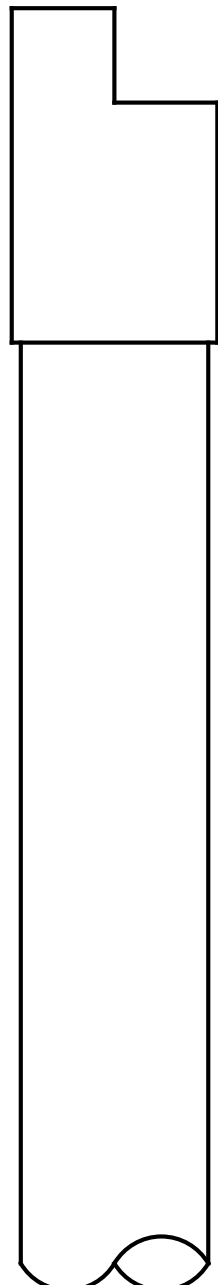
END VIEW

(WEST SIDE)



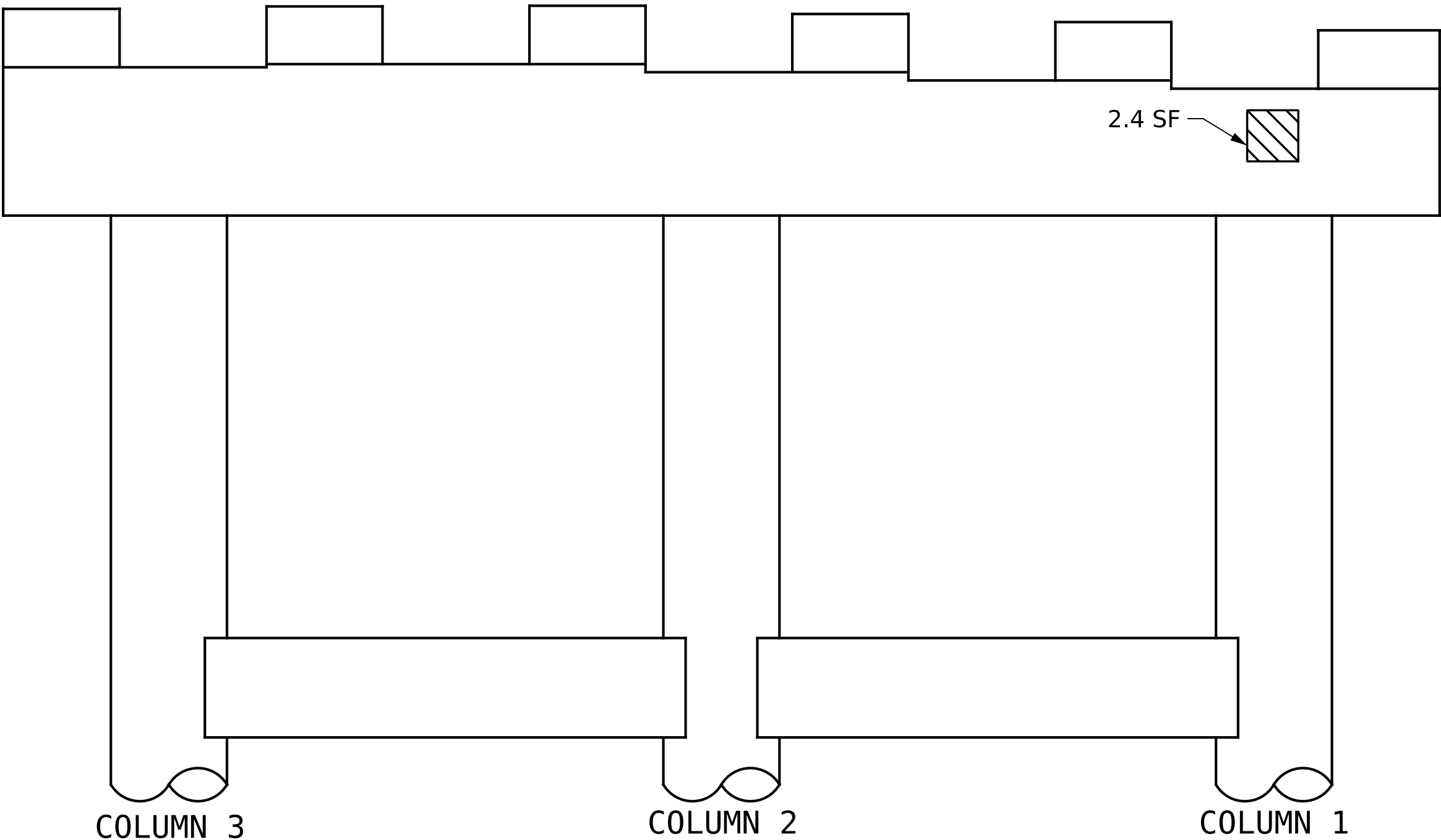
ELEVATION

(SPAN A SIDE)



END VIEW

(EAST SIDE)



ELEVATION

(SPAN B SIDE)

NOTES

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN BASED ON THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE REPAIR QUANTITY TABLE.

CLEAN AND REMOVE DEBRIS FROM THE TOP OF THE CAP AT BENT 1 AND THE END BENTS, AND APPLY EPOXY PROTECTIVE COATING. EPOXY COATING SHALL BE APPLIED TO THE TOP SURFACE OF THE CAPS. THE CONTRACTOR SHALL NOT COAT THE AREA OF THE CAPS BENEATH THE ELASTOMERIC BEARINGS. FOR EPOXY COATING, SEE SPECIAL PROVISIONS.

CONCRETE REPAIRS MAYBE SUBSTITUTED IN LIEU OF SHOTCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR REPAIRS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NO REPAIRS WERE NOTED FOR THE REMAINDER OF THE SUBSTRUCTURE DURING FIELD SCOPING. THE CONTRACTOR AND ENGINEER SHALL INSPECT THE SUBSTRUCTURE PRIOR TO BEGINNING WORK.

SUBSTRUCTURE REPAIR QUANTITY TABLE

REPAIRS - BENT 1

QUANTITIES

ESTIMATE

ACTUAL

SHOTCRETE REPAIRS

AREA
SF

VOLUME
CF

AREA
SF

VOLUME
CF

CAP

2.4

1.2

COLUMN

0

0

CONCRETE REPAIRS

AREA
SF

VOLUME
CF

AREA
SF

VOLUME
CF

CAP

0

0

COLUMN

0

0

EPOXY COATING

AREA
SF

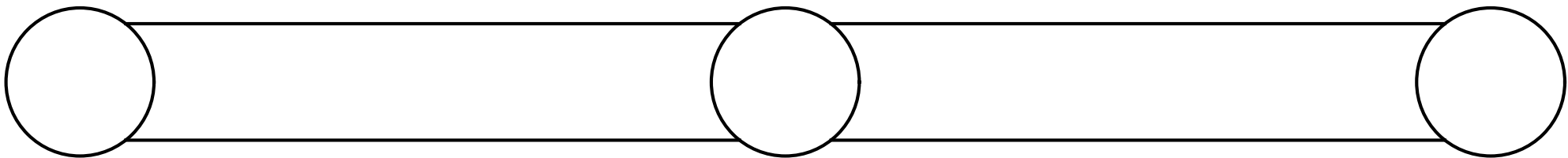
AREA
SF

CAP

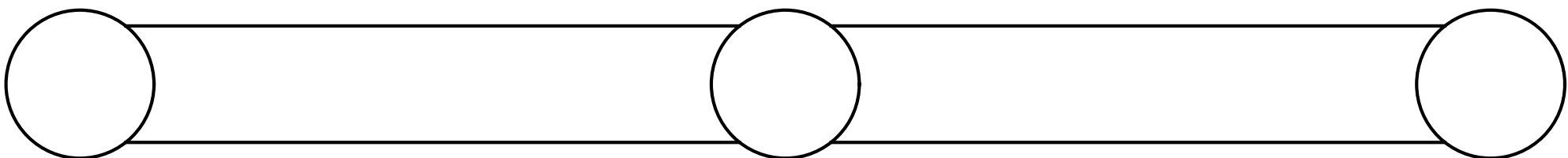
148

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 1" CLEAR TO SAWCUT. SEE REPAIR DETAILS.

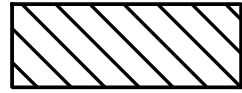
THE ESTIMATED AREA OF EPOXY COATING IS 86 SQ. FT. PER END BENT (END BENT 1 AND 2).



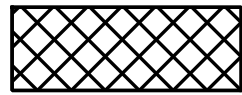
TOP OF STRUT



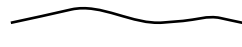
BOTTOM OF STRUT



SHOTCRETE REPAIRS



CONCRETE REPAIRS (FORM & POUR)



EPOXY RESIN INJECTION

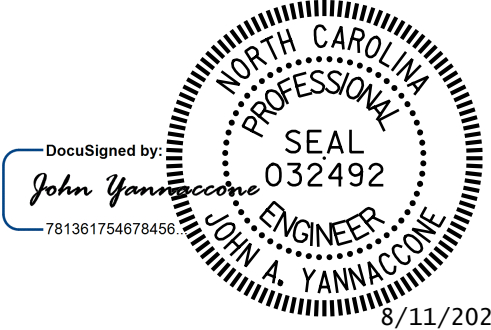
PROJECT NO. **15BPR.144**

WAKE COUNTY

BRIDGE: **910001**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE REPAIR
BENT 1



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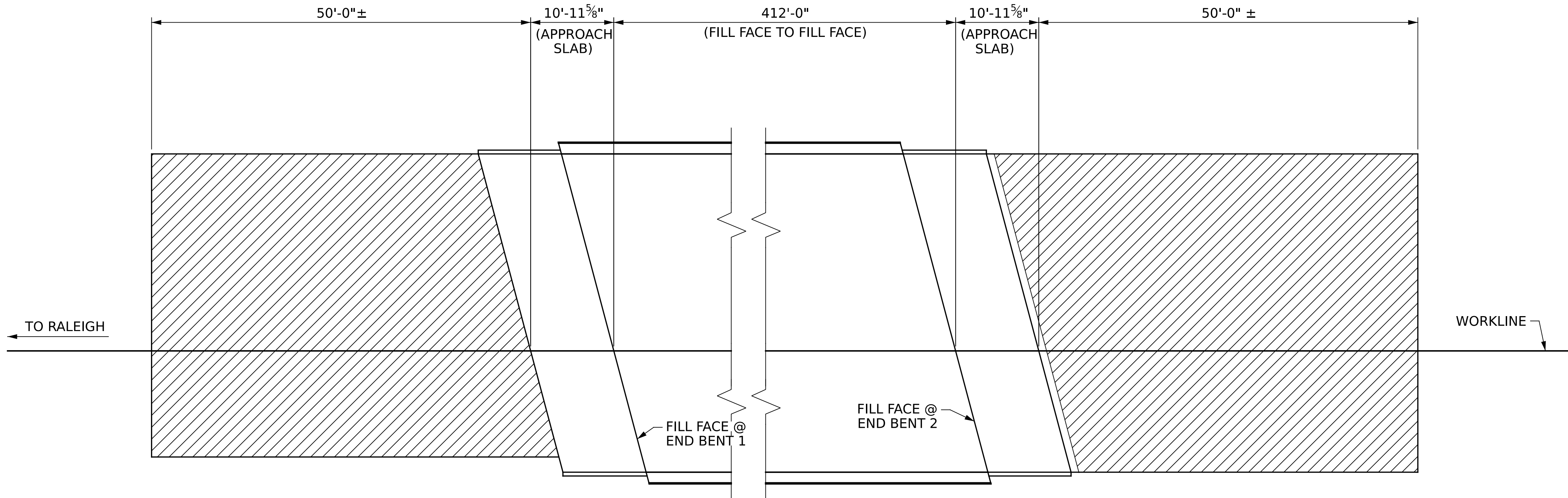
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NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S1-8
2			4			TOTAL SHEETS 30



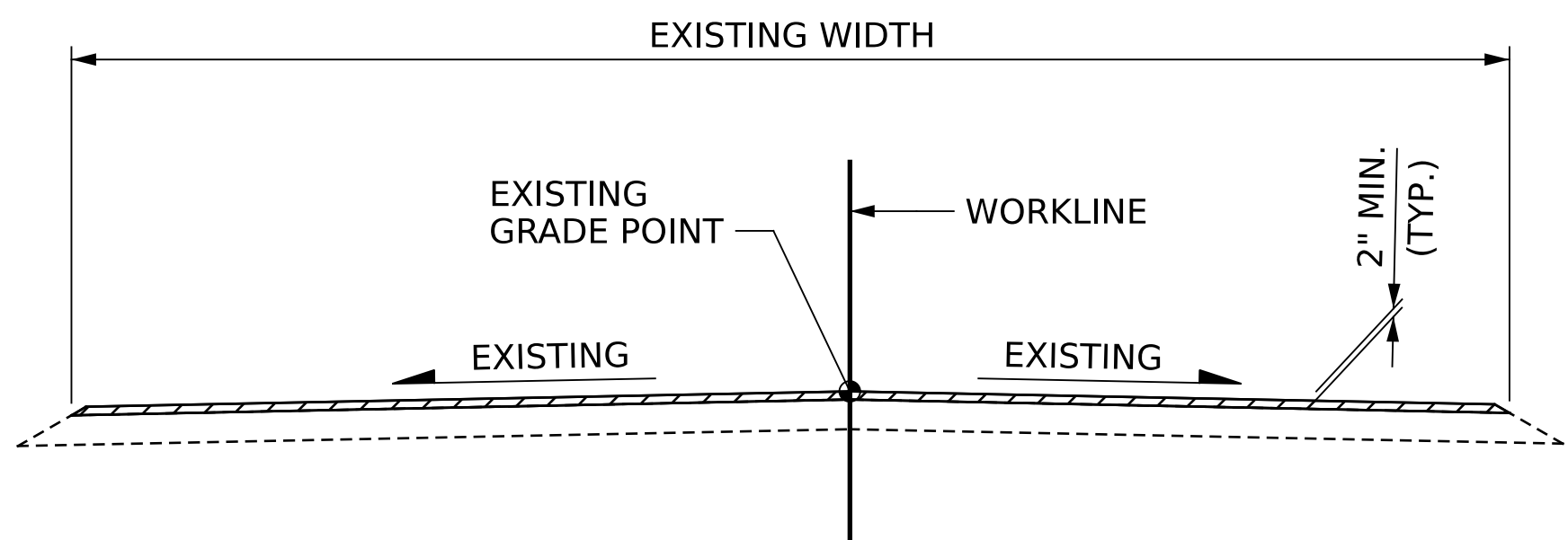
One Glenwood Avenue
Suite 900
Raleigh, NC 27603
919-420-7660
NC Lic. No. F-0270

DRAWN BY : **R.L.PUTEK** DATE : **9/2024**
CHECKED BY : **J. YANNACCON** DATE : **9/2024**

8/26/21

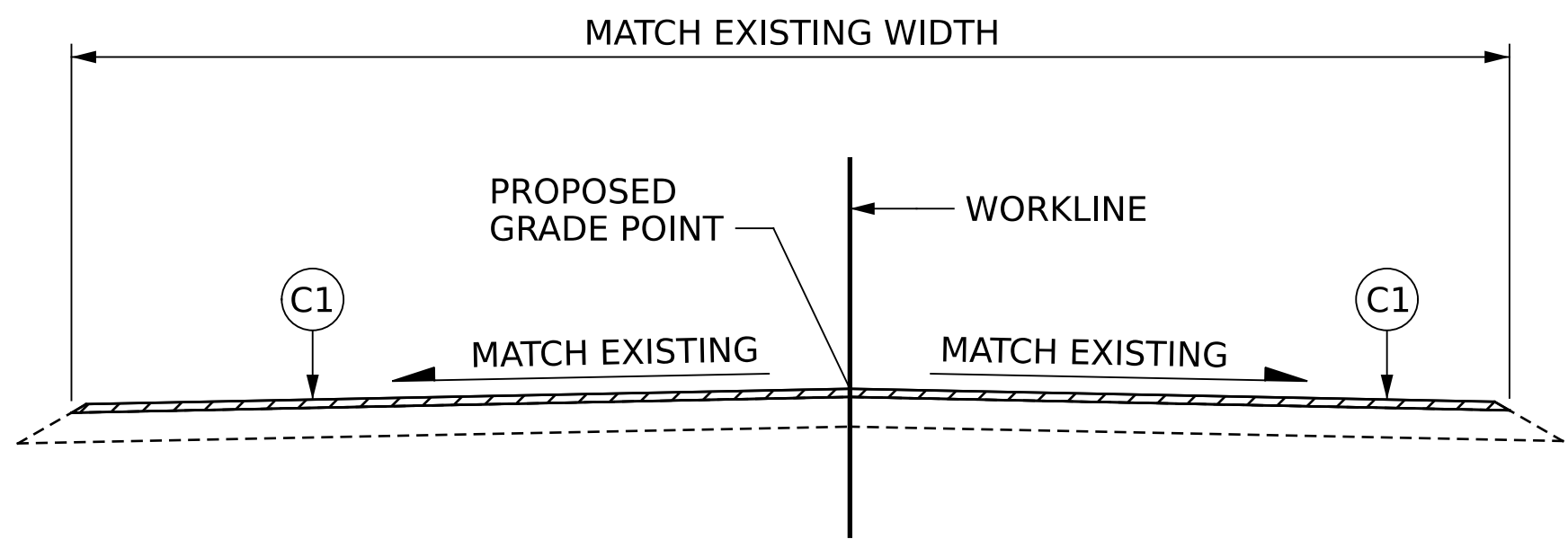


PLAN



TYPICAL ROADWAY MILLING SECTION

(MILLING DEPTH VARIES, SEE NOTES)



TYPICAL FINAL ROADWAY SECTION

NOTES:

INCIDENTAL MILLING - EXISTING APPROACH ASPHALT PAVEMENT TO BE MILLED AS NECESSARY TO ATTAIN MINIMUM 2" DEPTH OF NEW ASPHALT PAVEMENT. NEW ASPHALT PAVEMENT SHALL BE OF THICKNESS NECESSARY TO CREATE A SMOOTH TRANSITION BETWEEN THE ROADWAY AND THE BRIDGE DECK.

INCIDENTAL MILLING

C1	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE. TYPE S9.5C AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1½" IN DEPTH OR GREATER THAN 2" IN DEPTH.
----	---

AS-BUILT REPAIR QUANTITY TABLE

DESCRIPTION	ESTIMATE	ACTUAL
INCIDENTAL MILLING	450 SY	
ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C	51 TONS	
ASPHALT BINDER FOR PLANT MIX	4 TONS	

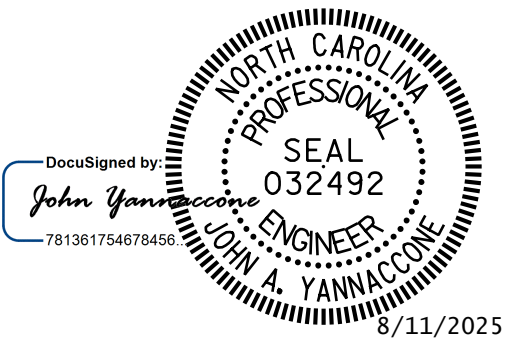
PROJECT NO. **15BPR.144**

WAKE COUNTY

BRIDGE: **910001**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

APPROACH MILLING
AND TYPICAL ROADWAY
SECTIONS



DRAWN BY : **J. MYA** DATE : **9/2024**
CHECKED BY : **J. YANNACCONE** DATE : **9/2024**



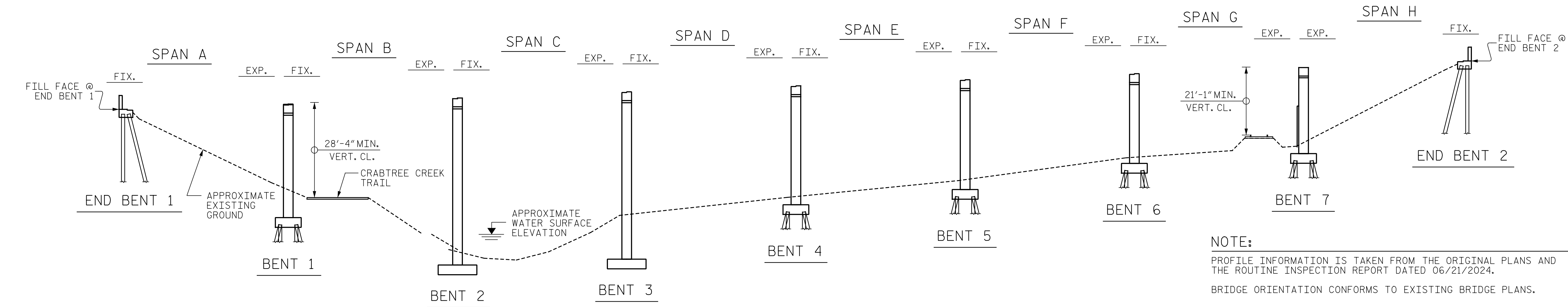
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1			3		
2			4		

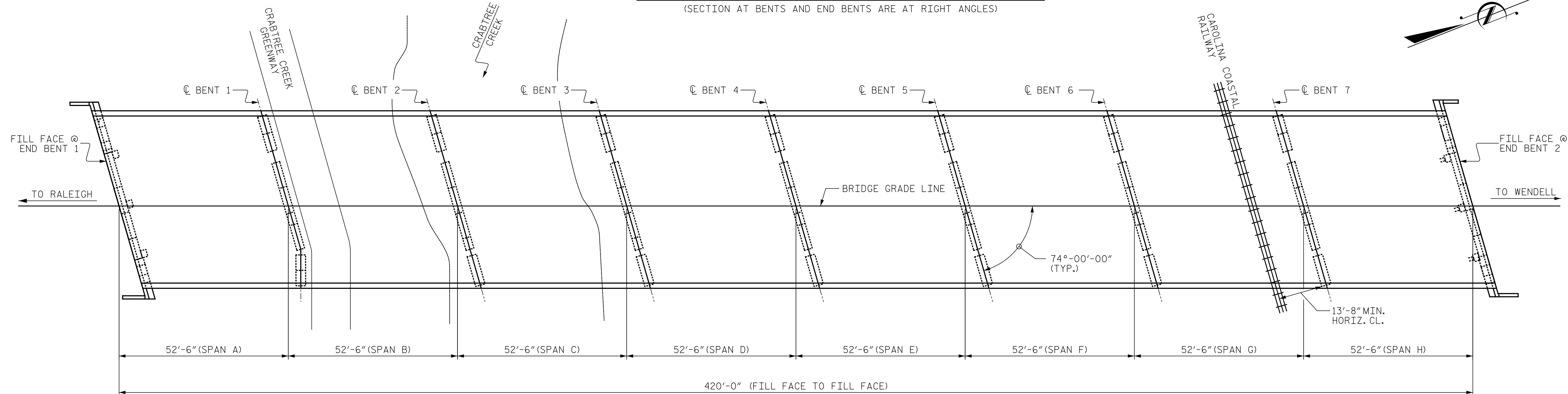
SHEET NO.
S1-9
TOTAL
SHEETS
30

8/26/21



SECTION ALONG BRIDGE GRADE LINE

(SECTION AT BENTS AND END BENTS ARE AT RIGHT ANGLES)



PLAN

(PILES NOT SHOWN FOR CLARITY)

SCOPE OF WORK

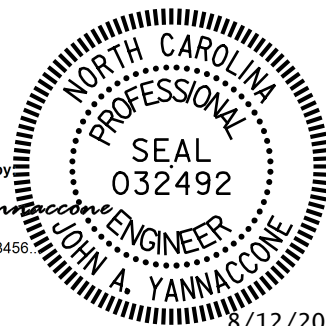
- PARTIALLY REMOVE TOP OF BRIDGE DECK CONCRETE BY SCARIFICATION AND HYDRO-DEMOLITION.
- OVERLAY PREPARED TOP OF BRIDGE DECK WITH VERY EARLY STRENGTH LATEX MODIFIED CONCRETE (LMC-VES).
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS.
- GROOVE LMC-VES BRIDGE DECK.
- MILL AND REPAVE ASPHALT APPROACH ROADWAYS.
- CLEAN AND ZONE PAINT EXISTING STRUCTURAL WEATHERING STEEL BEAMS.
- CLEAN, REPAIR AND PAINT EXISTING STRUCTURAL STEEL BEAMS.
- REPLACE EXISTING BEARINGS.
- REMOVE DEBRIS FROM TOP OF EXISTING END BENT AND BENT CAPS AND APPLY EPOXY COATING.
- REMOVE UNSOUND CONCRETE AND PROPERLY PREPARE EXISTING END BENT AND BENT AREAS FOR SHOTCRETE AND CONCRETE REPAIRS.

I HEREBY CERTIFY THAT THIS STRUCTURE WAS REHABILITATED ACCORDING TO THESE PLANS OR AS NOTED HEREIN.

RESIDENT ENGINEER

DATE

DocuSigned by
John Yannaccone



PROJECT NO. **15BPR.144**

WAKE COUNTY

BRIDGE: **910538**

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE ON SR 2911 EBL
(NEW BERN AVE) OVER
CRABTREE CREEK, CRABTREE
CREEK GREENWAY AND CAROLINA
COASTAL RAILWAY

DRAWN BY : **Z. BLINSON** DATE : **9/2024**
CHECKED BY : **J. YANNACCON** DATE : **9/2024**



One Glenwood Avenue
Suite 900
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919-420-7660
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SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S2-1
2			4			
TOTAL SHEETS						30