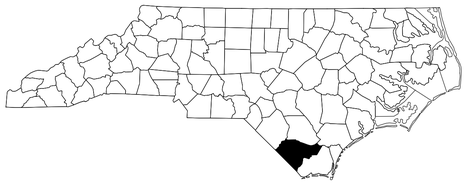
PROJECT: HI-0018

CONTRACT NO: C204994



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

COLUMBUS COUNTY

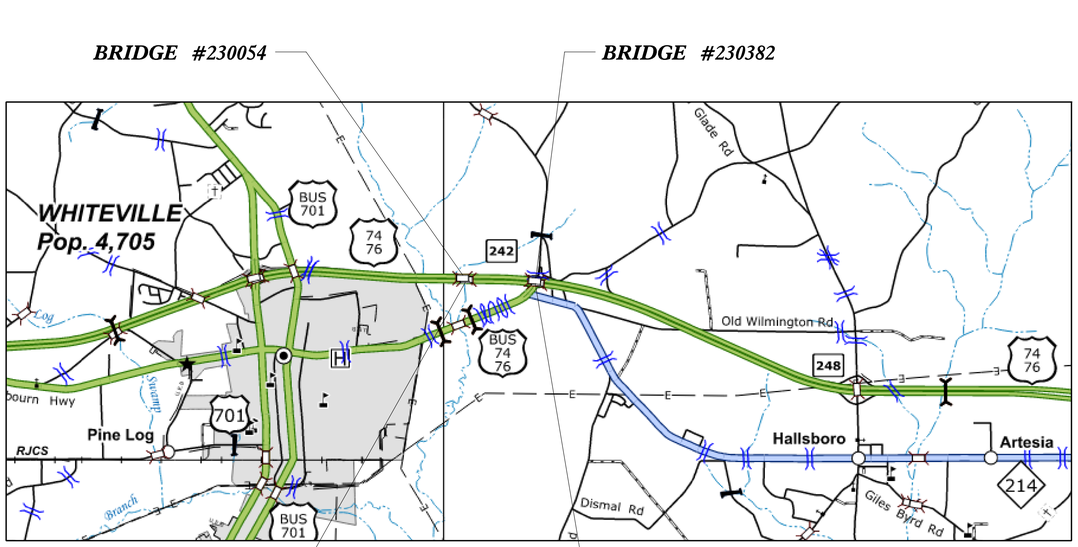
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HI-0018	1	79

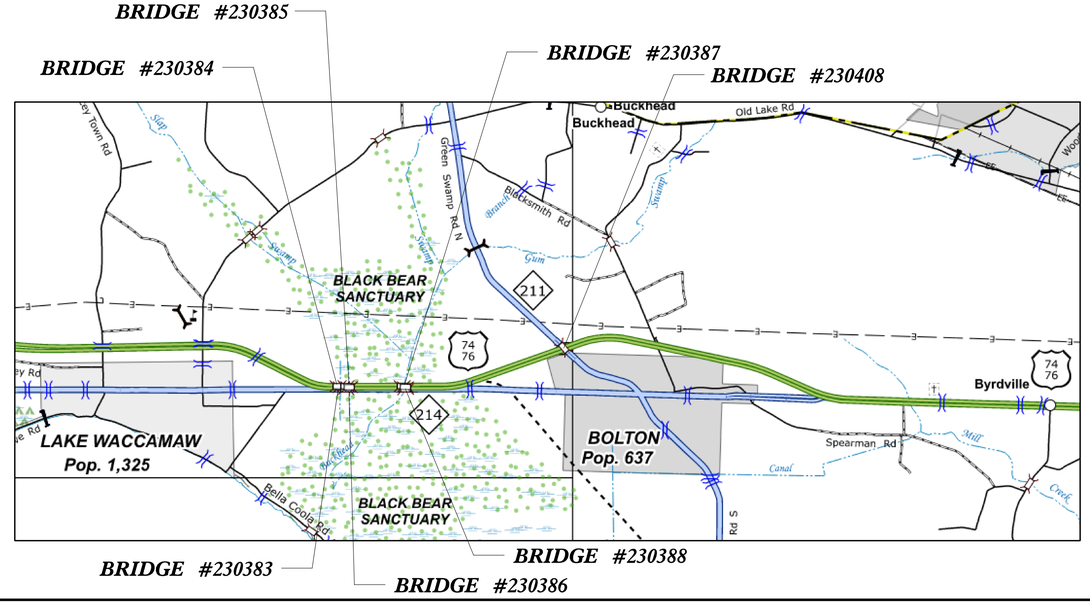
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49989.1.1	0074(247)	P.E.
49989.3.1	0074(247)	CONST.

LOCATION:

BRIDGE #230053 ON US 74 / US 76 EBL OVER WHITE MARSH SWAMP
BRIDGE #230054 ON US 74 / US 76 WBL OVER WHITE MARSH SWAMP
BRIDGE #230381 ON US 74 / US 76 EBL OVER SR 1700 (RED HILL ROAD)
BRIDGE #230382 ON US 74 / US 76 WBL OVER SR 1700 (RED HILL ROAD)
BRIDGE #230383 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230384 ON US 74 / US 76 WBL OVER FRIAR SWAMP
BRIDGE #230385 ON US 74 / US 76 WBL OVER FRIAR SWAMP
BRIDGE #230386 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230387 ON US 74 / US 76 WBL OVER FRIAR SWAMP
BRIDGE #230388 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230408 ON NC 211 (GREEN SWAMP ROAD) OVER US 74 /US 76

TYPE OF WORK: ***BRIDGE REHABILITATION – DECK SURFACE PREPARATION AND POLYMER CONCRETE OVERLAY, SCARIFICATION OF ASPHALT WEARING SURFACE, DECK REPAIRS, POLYMER CONCRETE OVERLAY, SILANE DECK TREATMENT, JOINT REPAIRS, PAINTING EXISTING STRUCTURE, PAINTING EXISTING WEATHERING STEEL STRUCTURE, SUBSTRUCTURE REPAIR, CONCRETE PILE ENCAPSULATION, EPOXY COATING BENT CAPS***





DESIGN DATA
COLUMBUS COUNTY

#230053	ADT 2021 =	16,500	#230385	ADT 2019 =	7,750
#230054	ADT 2021 =	16,500	#230386	ADT 2021 =	15,000
#230381	ADT 2021 =	16,500	#230387	ADT 2018 =	6,750
#230382	ADT 2021 =	16,500	#230388	ADT 2021 =	15,000
#230383	ADT 2021 =	16,500	#230408	ADT 2022 =	1,900
#230384	ADT 2019 =	7,750			

PROJECT LENGTH
COLUMBUS COUNTY

#230053	= 0.04	MILE	#230385	= 0.04	MILE
#230054	= 0.04	MILE	#230386	= 0.04	MILE
#230381	= 0.04	MILE	#230387	= 0.03	MILE
#230382	= 0.04	MILE	#230388	= 0.03	MILE
#230383	= 0.02	MILE	#230408	= 0.04	MILE
#230384	= 0.02	MILE			

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

TIMOTHY M. SHERRILL, P.E.
NCDOT PROJECT ENGINEER

2024 STANDARD SPECIFICATIONS

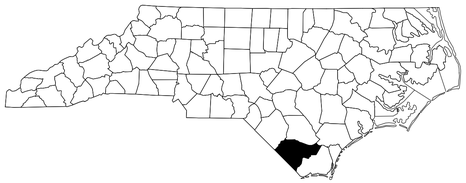
LETTING DATE:
FEBRUARY 18, 2025

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE
DocuSigned by: John Yannaccone 7813617546784456...
12/8/2024

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

PROJECT: HI-0018

CONTRACT NO: C204994



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

COLUMBUS COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HI-0018	1A	79

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49989.1.1	0074(247)	P.E.
49989.3.1	0074(247)	CONST.

LOCATION:

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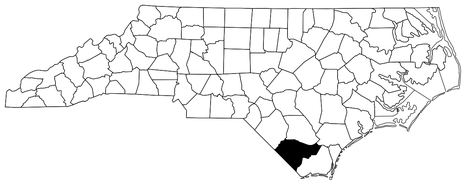
BRIDGE #230388 ON US 74 / US 76 EBL OVER FRIAR SWAMP
BRIDGE #230408 ON NC 211 (GREEN SWAMP ROAD) OVER US 74 /US 76

TYPE OF WORK: BRIDGE REHABILITATION – DECK SURFACE PREPARATION AND POLYMER CONCRETE OVERLAY, SCARIFICATION OF ASPHALT WEARING SURFACE, DECK REPAIRS, POLYMER CONCRETE OVERLAY, SILANE DECK TREATMENT, JOINT REPAIRS, PAINTING EXISTING STRUCTURE, PAINTING EXISTING WEATHERING STEEL STRUCTURE, SUBSTRUCTURE REPAIR, CONCRETE PILE ENCAPSULATION, EPOXY COATING BENT CAPS

INDEX OF DRAWINGS

CONTRACT NO: C204994 PROJECT: HI-0018



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

COLUMBUS COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HI-0018	1B	79

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
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49989.3.1	0074(247)	CONST.

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BRIDGE #230408 ON NC 211 (GREEN SWAMP ROAD) OVER US 74 /US 76

TYPE OF WORK: ***BRIDGE REHABILITATION – DECK SURFACE PREPARATION AND POLYMER CONCRETE OVERLAY, SCARIFICATION OF ASPHALT WEARING SURFACE, DECK REPAIRS, POLYMER CONCRETE OVERLAY, SILANE DECK TREATMENT, JOINT REPAIRS, PAINTING EXISTING STRUCTURE, PAINTING EXISTING WEATHERING STEEL STRUCTURE, SUBSTRUCTURE REPAIR, CONCRETE PILE ENCAPSULATION, EPOXY COATING BENT CAPS***

INDEX OF DRAWINGS

8/26/21

TOTAL BILL OF MATERIAL

BRIDGE NO.	FLOATING TURBIDITY CURTAIN	GROOVING BRIDGE FLOORS	CLASS IB SURFACE PREPARATION	CLASS II SURFACE PREPARATION	SHOTCRETE REPAIRS	EPOXY RESIN INJECTION	CLEANING AND REPAINTING OF BRIDGE #_	CLEANING AND PAINTING EXISTING WEATHERING STEEL FOR BRIDGE #_	PAINTING CONTAINMENT FOR BRIDGE #_	POLLUTION CONTROL	APPROACH SLAB WIDENING	FOAM JOINT SEALS FOR PRESERVATION	EXPANSION JOINT SEALS FOR PRESERVATION	ASPHALT PLUG JOINTS FOR PRESERVATION	PILE ENCAPSULATION
	SQ. YDS.	SQ. FT.	SQ. YDS.	SQ. YDS.	CU. FT.	LIN. FT.	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
230053	———	8,783	———	28.4	———	———	LUMP SUM	———	LUMP SUM	LUMP SUM	LUMP SUM	82.0	———	———	———
230054	———	8,626	———	28.5	———	10.0	LUMP SUM	———	LUMP SUM	LUMP SUM	———	82.0	———	———	———
230381	———	8,050	———	13.6	———	———	———	LUMP SUM	LUMP SUM	LUMP SUM	———	128.0	43.5	———	———
230382	———	7,902	———	9.2	———	———	———	LUMP SUM	LUMP SUM	LUMP SUM	———	85.0	87.0	———	———
230383	65.0	———	508.6	———	———	———	———	———	———	———	———	———	———	231.0	191.2
230384	95.0	———	508.6	———	———	———	———	———	———	———	———	———	———	231.0	239.8
230385	50.0	———	928.6	———	———	———	———	———	———	———	———	———	———	346.5	393.4
230386	45.0	———	928.6	———	2.3	———	———	———	———	———	———	———	———	346.5	253.6
230387	45.0	———	648.6	———	———	———	———	———	———	———	———	———	———	269.5	200.4
230388	20.0	———	648.6	———	———	———	———	———	———	———	———	———	———	269.5	125.0
230408	———	———	———	———	———	———	———	———	———	———	———	———	———	———	———
TOTAL	320.0	33,361	4,171.6	79.7	2.3	10.0	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	377.0	130.5	1,694.0	1,403.4

TOTAL BILL OF MATERIAL

BRIDGE NO.	POLYESTER POLYMER CONCRETE MATERIALS	EPOXY POLYMER CONCRETE MATERIALS (ALTERNATE)	EPOXY COATING	SCARIFYING BRIDGE DECK	SHOTBLASTING BRIDGE DECK	CONCRETE DECK REPAIR FOR PC OVERLAY	PLACING AND FINISHING PC OVERLAY	BRIDGE DECK WATERPROOFING MEMBRANE-SPRAY APPLIED	SILANE DECK TREATMENT
	CU. YDS.	CU. YDS.	SQ. FT.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.
230053	34.4	34.4	———	993.8	993.8	35.6	993.8	———	———
230054	36.3	36.3	———	1,044.9	1,044.9	28.6	1,044.9	———	———
230381	34.4	34.4	294	985.4	985.4	14.1	985.4	———	———
230382	33.7	33.7	294	964.4	964.4	9.4	964.4	———	———
230383	———	———	———	———	———	———	———	440.6	———
230384	———	———	———	———	———	———	———	440.6	———
230385	———	———	———	———	———	———	———	860.6	———
230386	———	———	———	———	———	———	———	860.6	———
230387	———	———	———	———	———	———	———	580.6	———
230388	———	———	———	———	———	———	———	580.6	———
230408	———	———	———	———	1,447.6	———	———	———	1,447.6
TOTAL	138.8	138.8	588	3,988.5	5,436.1	87.7	3,988.5	3,763.6	1,447.6

NOTE:

AT THE TIME 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 IN ENCOUNTERED.

UNANTICIPATED ITEMS:

CLASS III SURFACE PREPARATION
VOLUMETRIC MIXER

DRAWN BY : R.L.PUTEK DATE : 08/2024
CHECKED BY : J.A.YANNACCONE DATE : 08/2024

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE

DocuSigned by: John Yannaccone 781361754678456...

12/8/2024

GANNETT FLEMING

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. HI-0018

COLUMBUS COUNTY

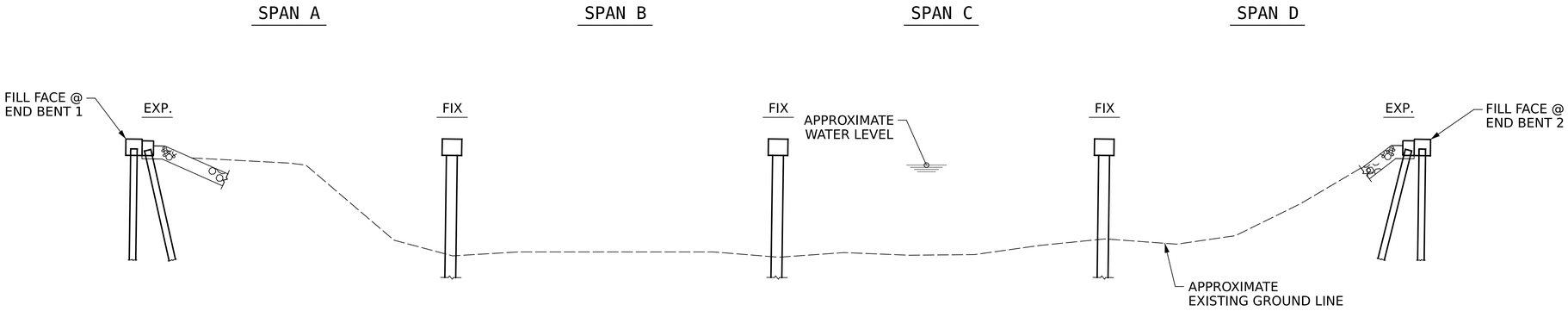
BRIDGE NO. 230053, 230054, 230381, 230382, 230383, 230384, 230385, 230386, 230387, 230388, 230408

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

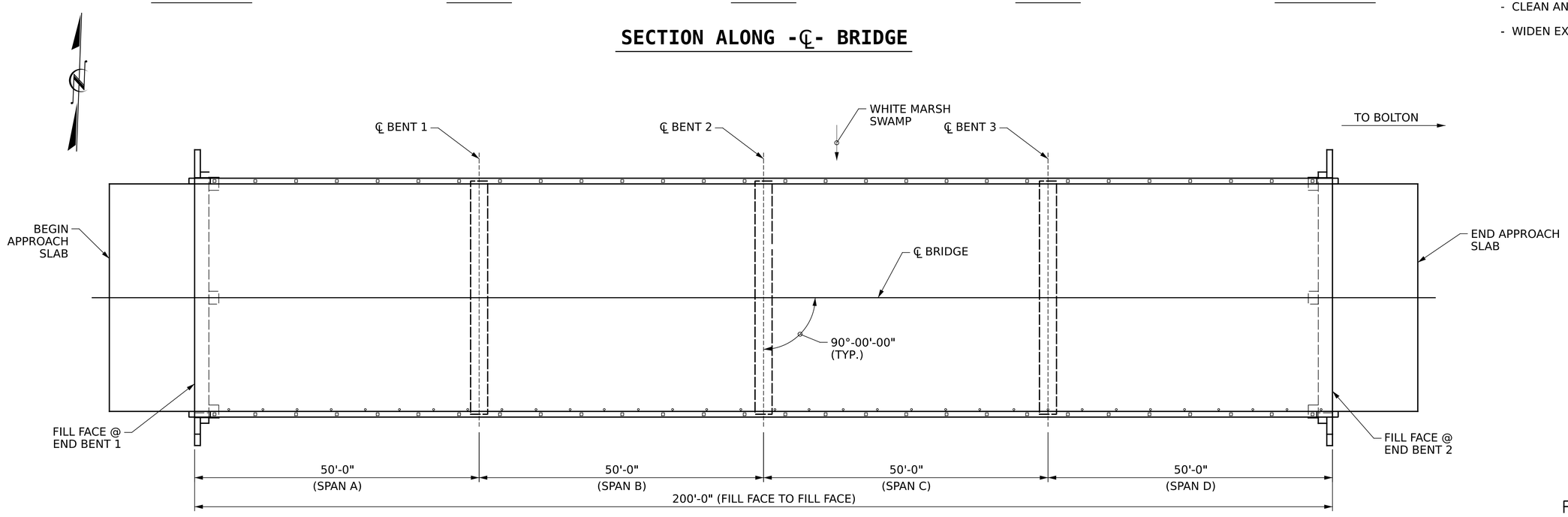
TOTAL BILL OF MATERIAL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
1			3			TOTAL SHEETS
2			4			79

8/26/21



SECTION ALONG -℄- BRIDGE



PLAN

(FOOTINGS AND PILES NOT SHOWN FOR CLARITY)

NOTES:

GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/01/2023.

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 SHOTBLASTING METHODS.
- OVERLAY PREPARED TOP OF BRIDGE DECK WITH POLYMER CONCRETE (PC).
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS.
- GROOVE PC BRIDGE DECK.
- CLEAN AND PAINT EXISTING STRUCTURAL STEEL BEAMS.
- WIDEN EXISTING APPROACH SLABS.

PROJECT NO. HI-0018

COLUMBUS COUNTY

BRIDGE NO. 230053

SHEET 1 OF 2

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

RESIDENT ENGINEER DATE

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE

DocuSigned by: John Yannaccone 781361754678456...

12/8/2024

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

DRAWN BY : R.L.PUTEK DATE : 08/2024

CHECKED BY : J.A.YANNACCONE DATE : 08/2024

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON
US 74 - US 76 BYP EBL
OVER WHITE MARSH SWAMP

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-01
1			3			TOTAL SHEETS
2			4			79

8/26/21

LOCATION SKETCH

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

BRIDGE COORDINATES	
LATITUDE	LONGITUDE
34°-20'-58.63''	78°-40'-16.51''

SAMPLE BAR REPLACEMENT	
SIZE	LENGTH
#3	6'-2"
#4	7'-4"
#5	8'-6"
#6	9'-8"
#7	10'-10"
#8	12'-0"
#9	13'-2"
#10	14'-6"
#11	15'-10"

NOTE:
SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND f_y = 60ksi.

GENERAL NOTES

SEE CONTRACT DOCUMENTS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF OVERLAY SURFACE PREPARATION AND POLYMER CONCRETE (PC) 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 REPAIR.

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 USED PLATFORMS, NETS, SCREEN 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 OF PHASING OF CONSTRUCTION, SEE CONTRACT DOCUMENTS.

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.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE SAMPLE BARS SHOULD COME FROM STEEL ACTUALLY USED IN THE PROJECT, AND THE SAMPLE BARS SHOULD BE REPLACED BY SPLICED BARS AS SPECIFIED IN THE SAMPLE BAR REPLACEMENT CHART. PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

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 FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

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.

FOR SCARIFYING BRIDGE DECK, SHOTBLASTING BRIDGE DECK AND CLASS II SURFACE PREPARATION, SEE OVERLAY SURFACE PREPARATION FOR POLYMER CONCRETE SPECIAL PROVISION.

FOR CONCRETE DECK REPAIR FOR PC OVERLAY, PC MATERIALS, AND PLACING AND FINISHING PC OVERLAY, SEE POLYMER CONCRETE BRIDGE DECK OVERLAY SPECIAL PROVISION.

FOR POLLUTION CONTROL AND PAINTING CONTAINMENT, SEE PAINTING EXISTING STRUCTURE SPECIAL PROVISION.

FOR PAINTING EXISTING STRUCTURE, SEE SPECIAL PROVISIONS.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR APPROACH SLAB WIDENING, SEE SPECIAL PROVISIONS.

PROJECT NO. **HI-0018**
COLUMBUS COUNTY
BRIDGE NO. **230053**

SHEET 2 OF 2

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE

DocuSigned by: John Yannaccone 7813617546784568...
12/8/2024

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE ON
US 74 - US 76 BYP EBL
OVER WHITE MARSH SWAMP

DRAWN BY : R.L.PUTEK DATE : 08/2024
CHECKED BY : J.A.YANNACCONE DATE : 08/2024

GANNETT FLEMING
One Glenwood Avenue
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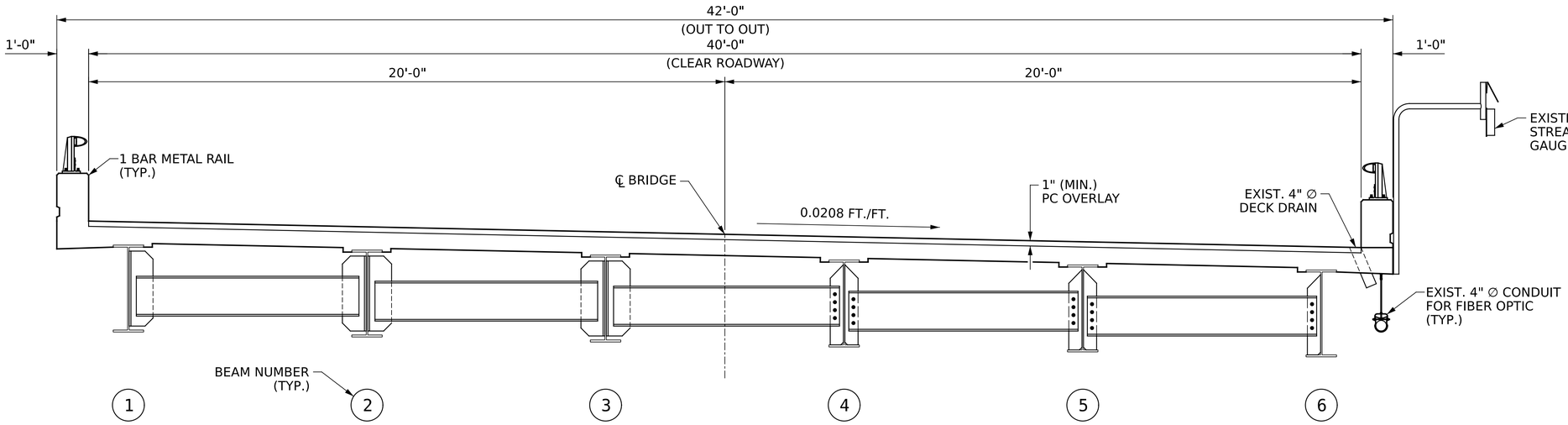
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-02
1			3			TOTAL SHEETS
2			4			79

8/26/21

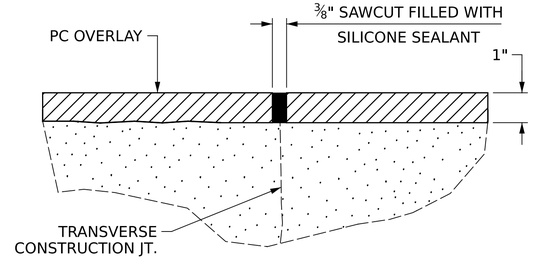


HALF SECTION AT INTERMEDIATE DIAPHRAGMS

HALF SECTION AT BENT DIAPHRAGMS

NOTES:

SEE CONTRACT DOCUMENTS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF OVERLAY SURFACE PREPARATION AND PC PLACEMENT.



DETAIL FOR SAWED CONTRACTION JOINT

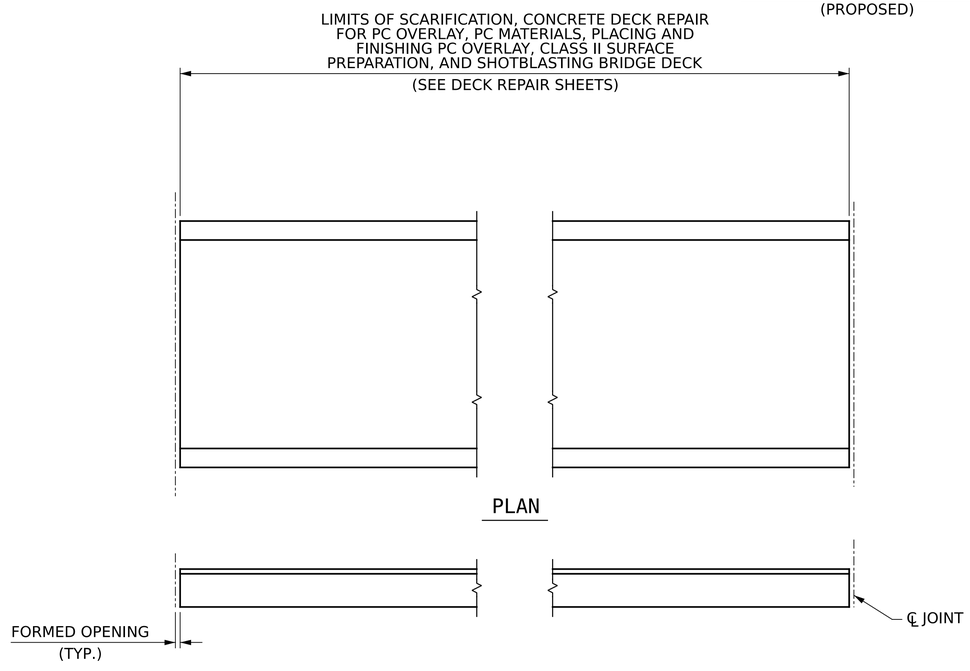
PROVIDE AND INSTALL A LOW MODULUS SILICONE SEALANT (NON-SAG OR SELF-LEVELING) WHICH CONFORMS TO ARTICLE 1028-3 OF THE STANDARD SPECIFICATIONS.

WITHIN 24 HOURS OF PLACEMENT OF THE PC OVERLAY, SAW THE CONTRACTION JOINT AFTER THE PC OVERLAY CAN SUPPORT THE WEIGHT OF THE EQUIPMENT AND OPERATOR WITHOUT DISTURBING THE FINAL FINISH OF THE OVERLAY.

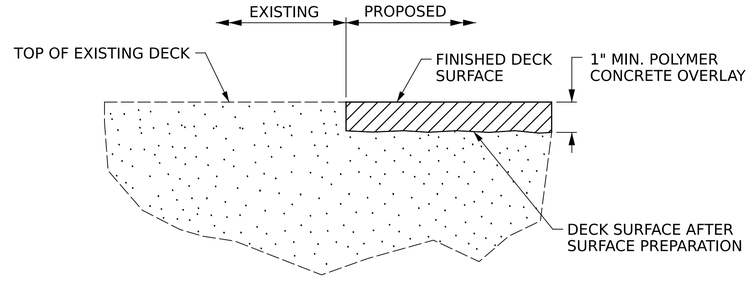
NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING SILICONE SEALANT. PAYMENT AT THE CONTRACT UNIT PRICES FOR THE VARIOUS PAY ITEMS WILL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, TOOLS, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

TYPICAL SECTION

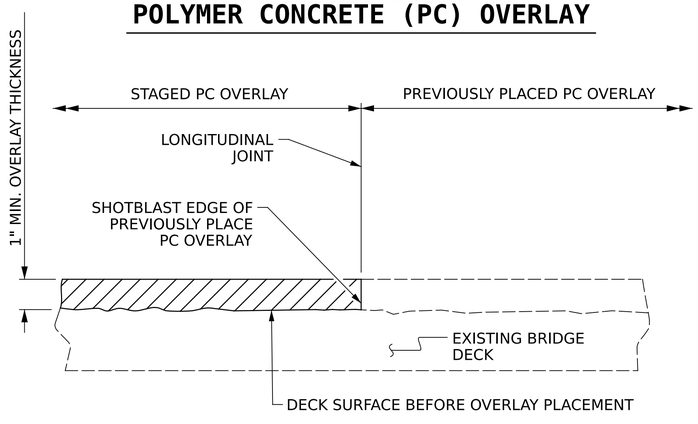
(PROPOSED)



PAY LIMITS FOR OVERLAY BID ITEMS



DETAIL FOR POLYMER CONCRETE (PC) OVERLAY



STAGED PC OVERLAY CONSTRUCTION JOINT

PROJECT NO. HI-0018

COLUMBUS COUNTY

BRIDGE NO. 230053

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE

DocuSigned by: John Yannaccone 781361754678456...

12/8/2024

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION AND SURFACE PREPARATION DETAILS

DRAWN BY : R.L.PUTEK DATE : 08/2024
CHECKED BY : J.A.YANNACCONE DATE : 08/2024

GANNETT FLEMING

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

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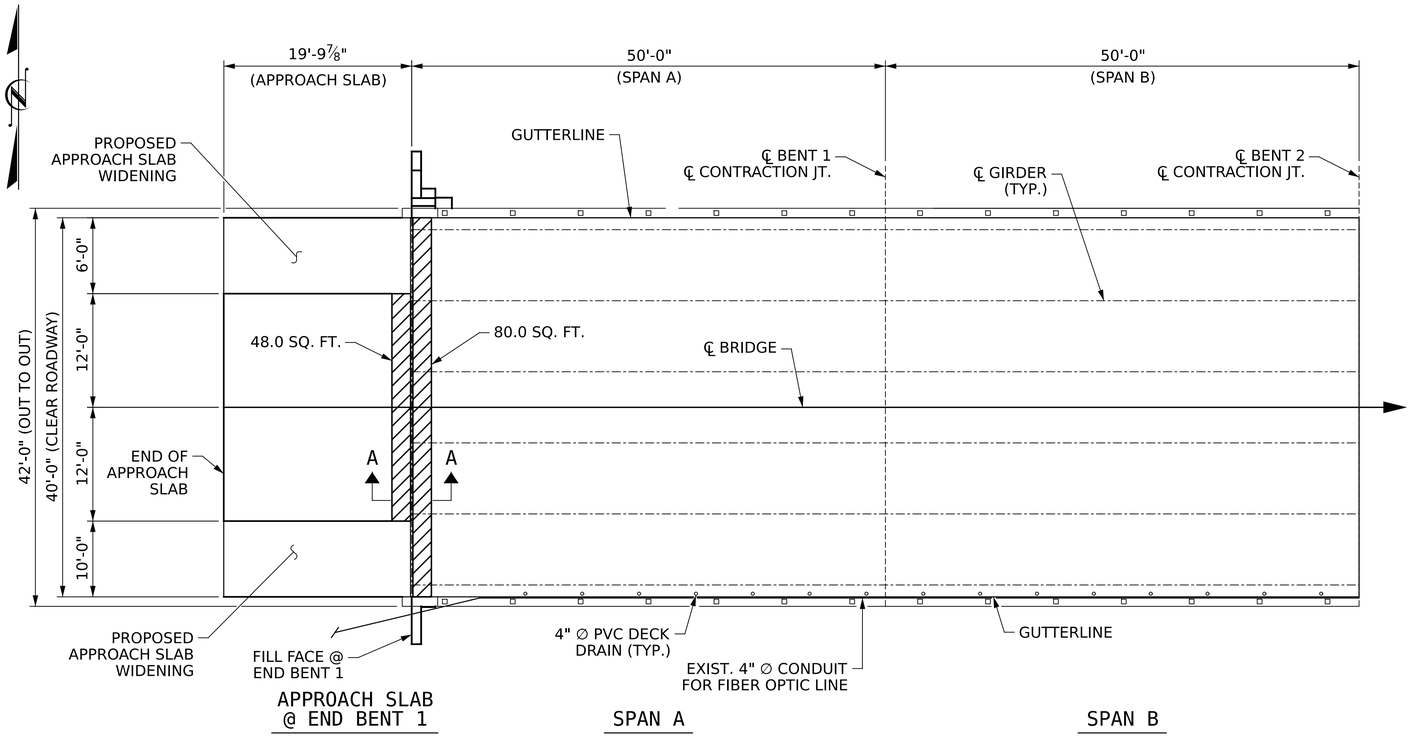

PLAN

AS-BUILT QUANTITY REPAIR TABLE

DECK SURFACE REPAIR & APPROACH SLAB REPAIR

		ESTIMATE	ACTUAL
SCARIFYING BRIDGE DECK	APPROACH SLAB @ END BENT 1	52.6 SQ. YDS.	
	SPAN A	222.2 SQ. YDS.	
	SPAN B	222.2 SQ. YDS.	
SHOTBLASTING BRIDGE DECK	APPROACH SLAB @ END BENT 1	52.6 SQ. YDS.	
	SPAN A	222.2 SQ. YDS.	
	SPAN B	222.2 SQ. YDS.	
CLASS II SURFACE PREPARATION	APPROACH SLAB @ END BENT 1	5.3 SQ. YDS.	
	SPAN A	8.9 SQ. YDS.	
	SPAN B	0.0 SQ. YDS.	
PC MATERIALS	APPROACH SLAB @ END BENT 1	1.8 CU. YDS.	
	SPAN A	7.7 CU. YDS.	
	SPAN B	7.7 CU. YDS.	
PLACING AND FINISHING PC OVERLAY	APPROACH SLAB @ END BENT 1	52.6 SQ. YDS.	
	SPAN A	222.2 SQ. YDS.	
	SPAN B	222.2 SQ. YDS.	
GROOVING BRIDGE FLOORS	APPROACH SLAB @ END BENT 1	717 SQ. FT.	
	SPAN A	1838 SQ. FT.	
	SPAN B	1838 SQ. FT.	

AS-BUILT QUANTITY REPAIR TABLE

DECK UNDERSIDE REPAIR

SHOTCRETE REPAIRS		ESTIMATE AREA SF	ESTIMATE VOLUME CF	ACTUAL AREA SF	ACTUAL VOLUME CF
UNDERSIDE OF DECK	SPAN A	0.0	0.0		
	SPAN B	0.0	0.0		
INTERIOR DIAPHRAGMS	SPAN A	0.0	0.0		
	SPAN B	0.0	0.0		
OVERHANG DIAPHRAGMS	SPAN A	0.0	0.0		
	SPAN B	0.0	0.0		
UNDERSIDE OF OVERHANG	SPAN A	0.0	0.0		
	SPAN B	0.0	0.0		

		ESTIMATE	ACTUAL
UNDERSIDE EPOXY RESIN INJECTION	SPAN A	0.0 LIN.FT.	
	SPAN B	0.0 LIN.FT.	

SCARIFICATION AND SHOTBLASTING OF BRIDGE DECK

CLASS II SURFACE PREPARATION

UNDERSIDE OF DECK SHOTCRETE REPAIRS

NOTES

REPAIR LOCATIONS AND ESTIMATED QUAINTITIES 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 QUAINTITIES ENTERED INTO THE REPAIR QUAINTITY TABLE.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED UPON SQUARE YARDS OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING SCARIFICATION OF BRIDGE DECK, SEE OVERLAY SURFACE PREPARATION FOR POLYMER CONCRETE SPECIAL PROVISION.

CONCRETE COVER FOR TOP BARS IN DECK SLAB IS 1½" PER EXISTING BRIDGE PLANS.

FOR SECTION A-A. SEE "FOAM JOINT SEAL DETAILS" SHEET.

FOR CONTRACTION JOINTS, SEE "TYPICAL SECTION AND SURFACE PREPARATION" SHEET.

FOR PROPOSED APPROACH SLAB WIDENING, SEE "APPROACH SLAB WIDENING DETAILS" SHEET.

PROJECT NO. **HI-0018**

COLUMBUS COUNTY

BRIDGE NO. **230053**

SHEET 1 OF 2

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE

DocuSigned by: John Yannaccone 781361754678456...

12/8/2024

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK REPAIRS
SPAN A W/ APPROACH SLAB AND SPAN B

DRAWN BY : R.L.PUTEK DATE : 08/2024
CHECKED BY : J.A.YANNACCONE DATE : 08/2024

GANNETT FLEMING

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

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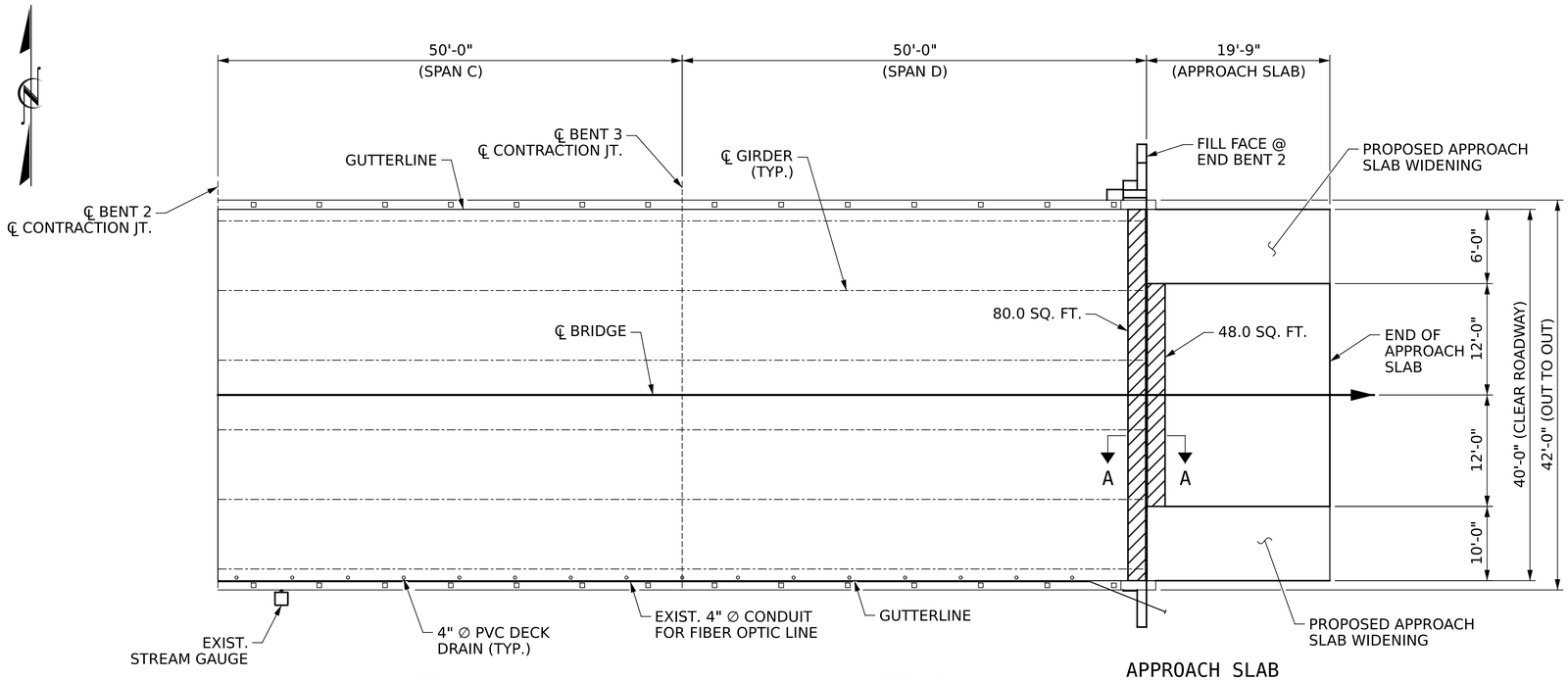

PLAN

AS-BUILT QUANTITY REPAIR TABLE

DECK SURFACE REPAIR & APPROACH SLAB REPAIR

		ESTIMATE	ACTUAL
SCARIFYING BRIDGE DECK			
	SPAN C	222.2 SQ. YDS.	
	SPAN D	222.2 SQ. YDS.	
	APPROACH SLAB @ END BENT 2	52.4 SQ. YDS.	
SHOTBLASTING BRIDGE DECK			
	SPAN C	222.2 SQ. YDS.	
	SPAN D	222.2 SQ. YDS.	
	APPROACH SLAB @ END BENT 2	52.4 SQ. YDS.	
CLASS II SURFACE PREPARATION			
	SPAN C	0.0 SQ. YDS.	
	SPAN D	8.9 SQ. YDS.	
	APPROACH SLAB @ END BENT 2	5.3 SQ. YDS.	
PC MATERIALS			
	SPAN C	7.7 CU. YDS.	
	SPAN D	7.7 CU. YDS.	
	APPROACH SLAB @ END BENT 2	1.8 CU. YDS.	
PLACING AND FINISHING PC OVERLAY			
	SPAN C	222.2 SQ. YDS.	
	SPAN D	222.2 SQ. YDS.	
	APPROACH SLAB @ END BENT 2	52.4 SQ. YDS.	
GROOVING BRIDGE FLOORS			
	SPAN C	1838 SQ. FT.	
	SPAN D	1838 SQ. FT.	
	APPROACH SLAB @ END BENT 2	714 SQ. FT.	

AS-BUILT QUANTITY REPAIR TABLE

DECK UNDERSIDE REPAIR

SHOTCRETE REPAIRS		ESTIMATE AREA SF	ESTIMATE VOLUME CF	ACTUAL AREA SF	ACTUAL VOLUME CF
UNDERSIDE OF DECK	SPAN C	0.0	0.0		
	SPAN D	0.0	0.0		
INTERIOR DIAPHRAGMS	SPAN C	0.0	0.0		
	SPAN D	0.0	0.0		
OVERHANG DIAPHRAGMS	SPAN C	0.0	0.0		
	SPAN D	0.0	0.0		
UNDERSIDE OF OVERHANG	SPAN C	0.0	0.0		
	SPAN D	0.0	0.0		

		ESTIMATE	ACTUAL
UNDERSIDE EPOXY RESIN INJECTION	SPAN C	0.0 LIN.FT.	
	SPAN D	0.0 LIN.FT.	

SCARIFICATION AND SHOTBLASTING OF BRIDGE DECK

CLASS II SURFACE PREPARATION

UNDERSIDE OF DECK SHOTCRETE REPAIRS

NOTES

REPAIR LOCATIONS AND ESTIMATED QUAINTITIES 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 QUAINTITIES ENTERED INTO THE REPAIR QUAINTITY TABLE.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED UPON SQUARE YARDS OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING SCARIFICATION OF BRIDGE DECK, SEE OVERLAY SURFACE PREPARATION FOR POLYMER CONCRETE SPECIAL PROVISION.

CONCRETE COVER FOR TOP BARS IN DECK SLAB IS 1½" PER EXISTING BRIDGE PLANS.

FOR SECTION A-A. SEE "FOAM JOINT SEAL DETAILS" SHEET.

FOR CONTRACTION JOINTS, SEE "TYPICAL SECTION AND SURFACE PREPARATION" SHEET.

FOR PROPOSED APPROACH SLAB WIDENING, SEE "APPROACH SLAB WIDENING DETAILS" SHEET.

PROJECT NO. **HI-0018**

COLUMBUS COUNTY

BRIDGE NO. **230053**

SHEET 2 OF 2

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE

DocuSigned by: John Yannaccone 781361754678456...

12/8/2024

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK REPAIRS
SPAN C AND SPAN D
W/ APPROACH SLAB

DRAWN BY : R.L.PUTEK DATE : 08/2024
CHECKED BY : J.A.YANNACCONE DATE : 08/2024

GANNETT FLEMING

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

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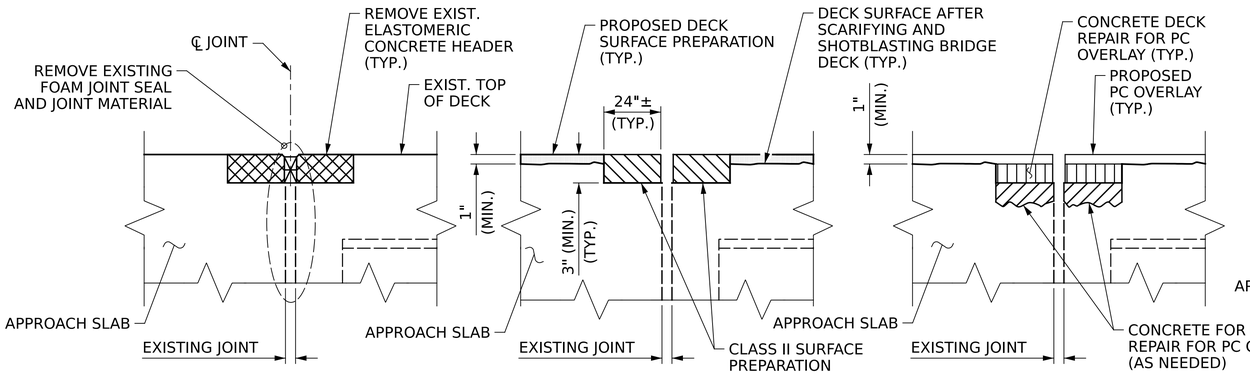
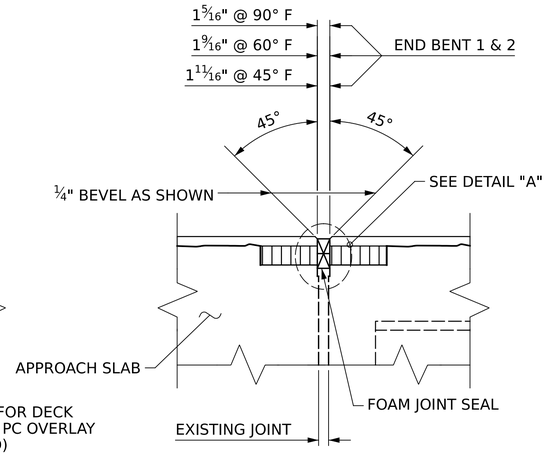


EXISTING JOINT | EXISTING JOINT AFTER JOINT DEMOLITION | PROPOSED JOINT PRIOR TO SAWING



PROPOSED FOAM JOINT SEAL

SECTION A-A

(NOT TO SCALE)

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.

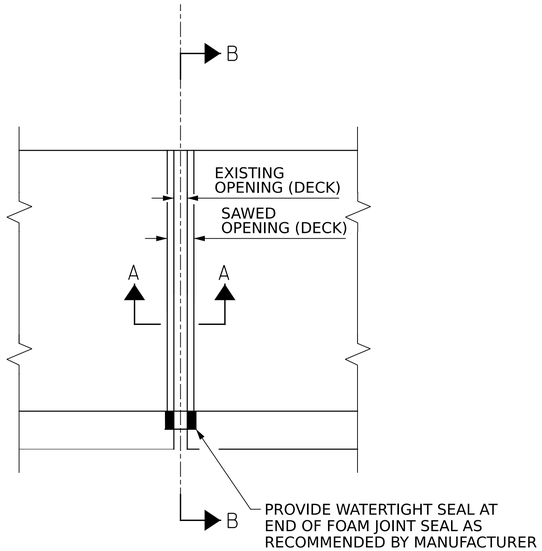
FOR EXCAVATION BELOW THE BOTTOM OF PLANNED CLASS II SURFACE PREPARATION, CONCRETE FOR DECK REPAIR FOR PC OVERLAY SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED PC OVERLAY.

FOR CLASS II SURFACE PREPARATION, SEE OVERLAY SURFACE PREPARATION FOR POLYMER CONCRETE SPECIAL PROVISION.

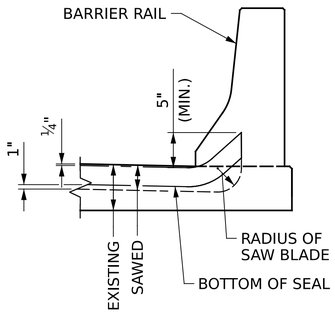
FOR CONCRETE DECK REPAIR FOR PC OVERLAY, SEE POLYMER CONCRETE BRIDGE DECK OVERLAY SPECIAL PROVISION.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

ALL EXISTING ELASTOMERIC CONCRETE SHALL BE REMOVED. THE DEPTH SHOWN IN THE DETAILS FOR CLASS II SURFACE PREPARATION AT THE EXISTING JOINT IS THE MINIMUM DEPTH REQUIRED.

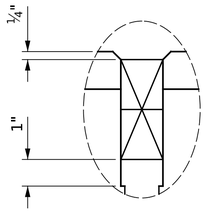


PLAN



SECTION B-B

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



DETAIL "A"

AS-BUILT SUMMARY OF QUANTITIES

ITEM	LOCATION	ESTIMATED	ACTUAL
FOAM JOINT SEALS FOR PRESERVATION			
	END BENT 1	41.0 LIN.FT.	
	END BENT 2	41.0 LIN.FT.	
CONCRETE DECK REPAIR FOR PC OVERLAY			
	END BENT 1	17.8 SQ.YDS.	
	END BENT 2	17.8 SQ.YDS.	

PROJECT NO. HI-0018

COLUMBUS COUNTY

BRIDGE NO. 230053

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE

DocuSigned by: John Yannaccone 781361754678456...

12/8/2024

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

FOAM JOINT SEAL DETAILS

DRAWN BY : R.L.PUTEK DATE : 08/2024
CHECKED BY : J.A.YANNACCONE DATE : 08/2024

GANNETT FLEMING

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

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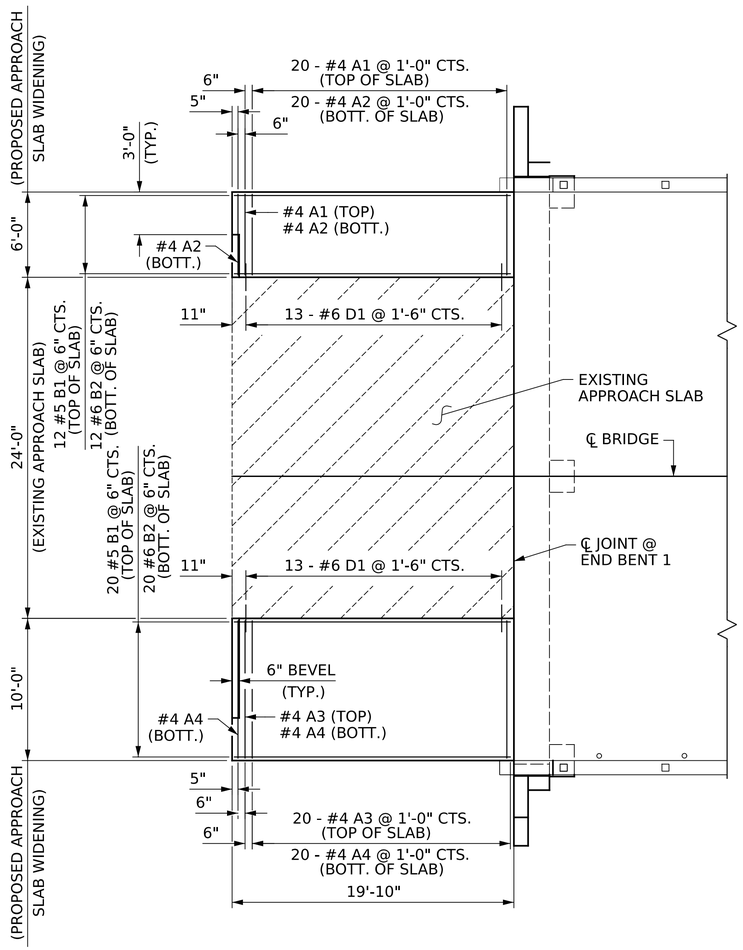
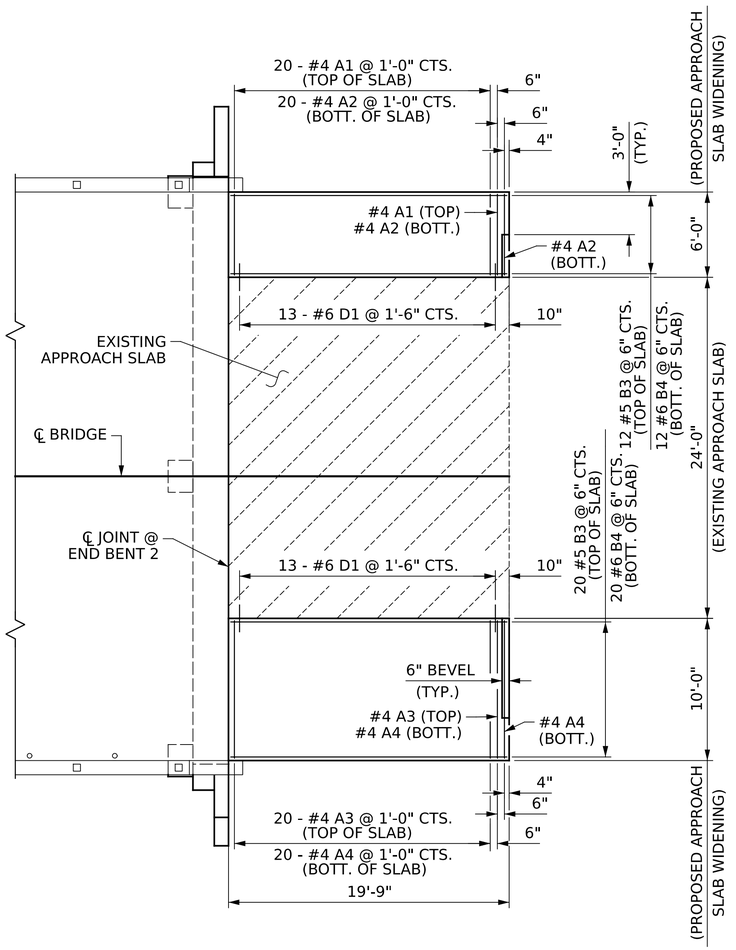


PLAN @ END BENT 1



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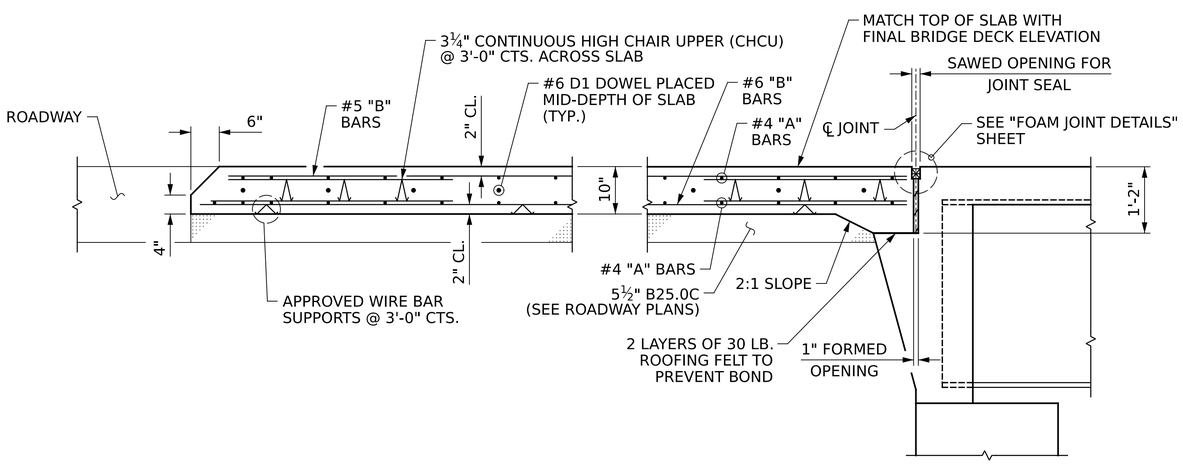

SECTION THRU SLAB

BILL OF MATERIAL

APPROACH SLAB AT END BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*A1	21	#4	STR	5'-8"	79
A2	22	#4	STR	5'-8"	83
*A3	21	#4	STR	9'-8"	136
A4	22	#4	STR	9'-8"	142
*B1	32	#5	STR	18'-11"	631
B2	32	#6	STR	19'-5"	933
D1	26	#6	STR	1'-6"	59

REINFORCING STEEL 1217 LBS.

* EPOXY COATED
REINFORCING STEEL 846 LBS.

CLASS AA CONCRETE 10.0 CU. YDS.

APPROACH SLAB AT END BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*A1	21	#4	STR	5'-8"	79
A2	22	#4	STR	5'-8"	83
*A3	21	#4	STR	9'-8"	136
A4	22	#4	STR	9'-8"	142
*B3	32	#5	STR	18'-10"	629
B4	32	#6	STR	19'-4"	929
D1	26	#6	STR	1'-6"	59

REINFORCING STEEL 1213 LBS.

* EPOXY COATED
REINFORCING STEEL 844 LBS.

CLASS AA CONCRETE 9.9 CU. YDS.

NOTES

1. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE APPROACH SLABS PRIOR TO ORDERING REINFORCING BARS.
2. FOR ADHESIVELY ANCHORED DOWELS, NO FIELD TESTING IS REQUIRED.
3. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE ARTICLE 420-13 OF THE STANDARD SPECIFICATIONS.
4. FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.
5. FOR APPROACH SLAB WIDENING, SEE SPECIAL PROVISIONS.

PROJECT NO. HI-0018
COLUMBUS COUNTY
BRIDGE NO. 230053

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE
DocuSigned by: John Yannaccone 781361754678456...
12/8/2024

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

APPROACH SLAB WIDENING DETAILS

DRAWN BY : R.L.PUTEK DATE : 08/2024
CHECKED BY : J.A.YANNACCONE DATE : 08/2024

GANNETT FLEMING
One Glenwood Avenue
Suite 900
Raleigh,NC 27603
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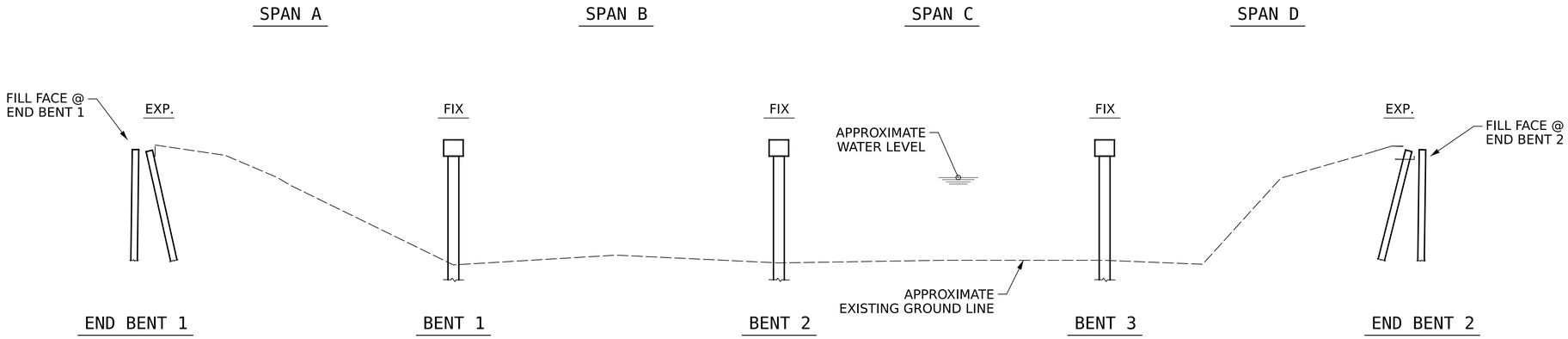
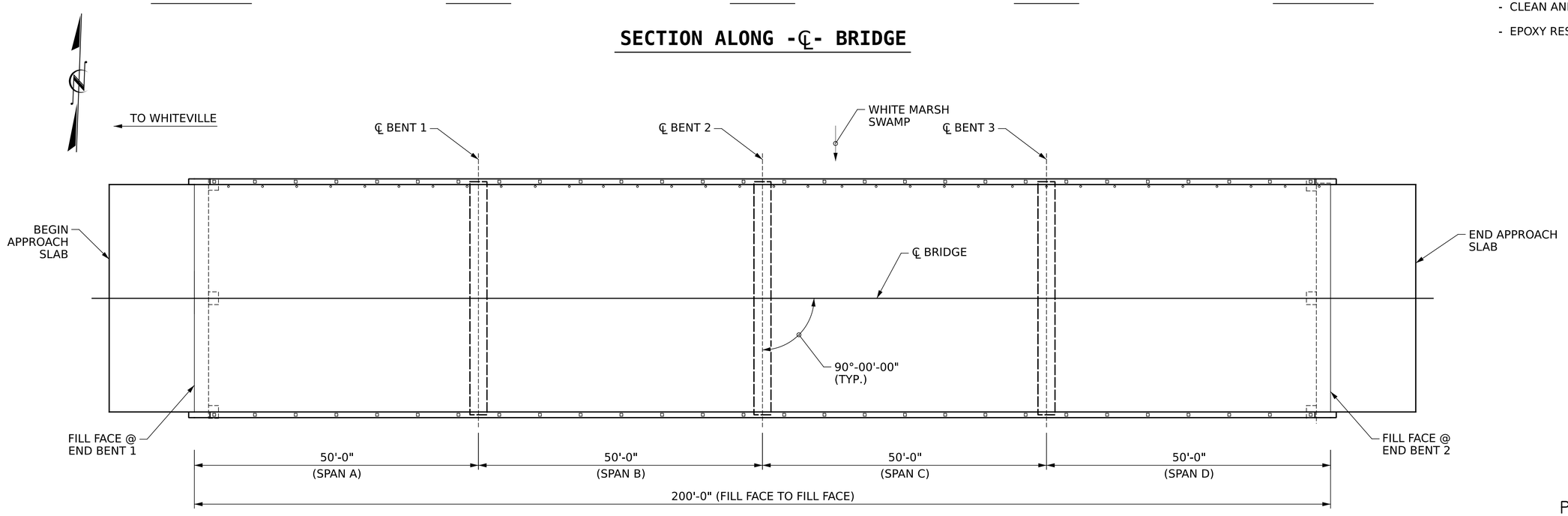


SECTION ALONG -℄- BRIDGE



PLAN

(FOOTINGS AND PILES NOT SHOWN FOR CLARITY)

NOTES:

GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/12/2023.

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 SHOTBLASTING METHODS.
- OVERLAY PREPARED TOP OF BRIDGE DECK WITH POLYMER CONCRETE (PC).
- REMOVE EXISTING JOINT MATERIAL AND INSTALL FOAM JOINTS.
- GROOVE PC BRIDGE DECK.
- CLEAN AND PAINT EXISTING STRUCTURAL STEEL BEAMS.
- EPOXY RESIN INJECTION OF CONCRETE CRACKS.

PROJECT NO. **HI-0018**

COLUMBUS COUNTY

BRIDGE NO. **230054**

SHEET 1 OF 2

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

RESIDENT ENGINEER DATE

NORTH CAROLINA PROFESSIONAL SEAL 032492 ENGINEER JOHN A. YANNACCONE

DocuSigned by: John Yannaccone 781361754678456...

12/8/2024

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON
US 74 - US 76 BYP WBL
OVER WHITE MARSH SWAMP

DRAWN BY : R.L.PUTEK DATE : 08/2024
CHECKED BY : J.A.YANNACCONE DATE : 08/2024

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

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