


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

BRIDGE CO	ORDINATES
LATITUDE	LONGITUDE
34°-19'-21.09''	78°-27'-17.98''

SEE CONTRACT DOCUMENTS FOR LANE WIDTHS, PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SEQUENCING AND OTHER TRAFFIC CONTROL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE MEASURES FOR STAGING OF OVERLAY SURFACE SEQUENCE OF TASKS FOR EACH OPERATION AFFECTING PREPARATION AND POLYMER CONCRETE (PC) PLACEMENT. THE BRIDGE SURFACE AND/OR TRAFFIC.

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.

EXISTING JOINTS AND DECK DRAINS SHALL BE THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER SEALED PRIOR TO BEGINNING SURFACE PREPARATIONS AGAINST THE DEPARTMENT FOR ANY DELAYS OR OF THE BRIDGE DECK. THE CONTRACTOR SHALL TAKE ADDITIONAL COST INCURRED BASED ON DIFFERENCES 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. 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.



GENERAL NOTES

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.

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

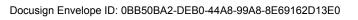
FOR CLASS IB SURFACE PREPARATION, SEE BRIDGE DECK ASPHALT OVERLAY SPECIAL PROVISION.

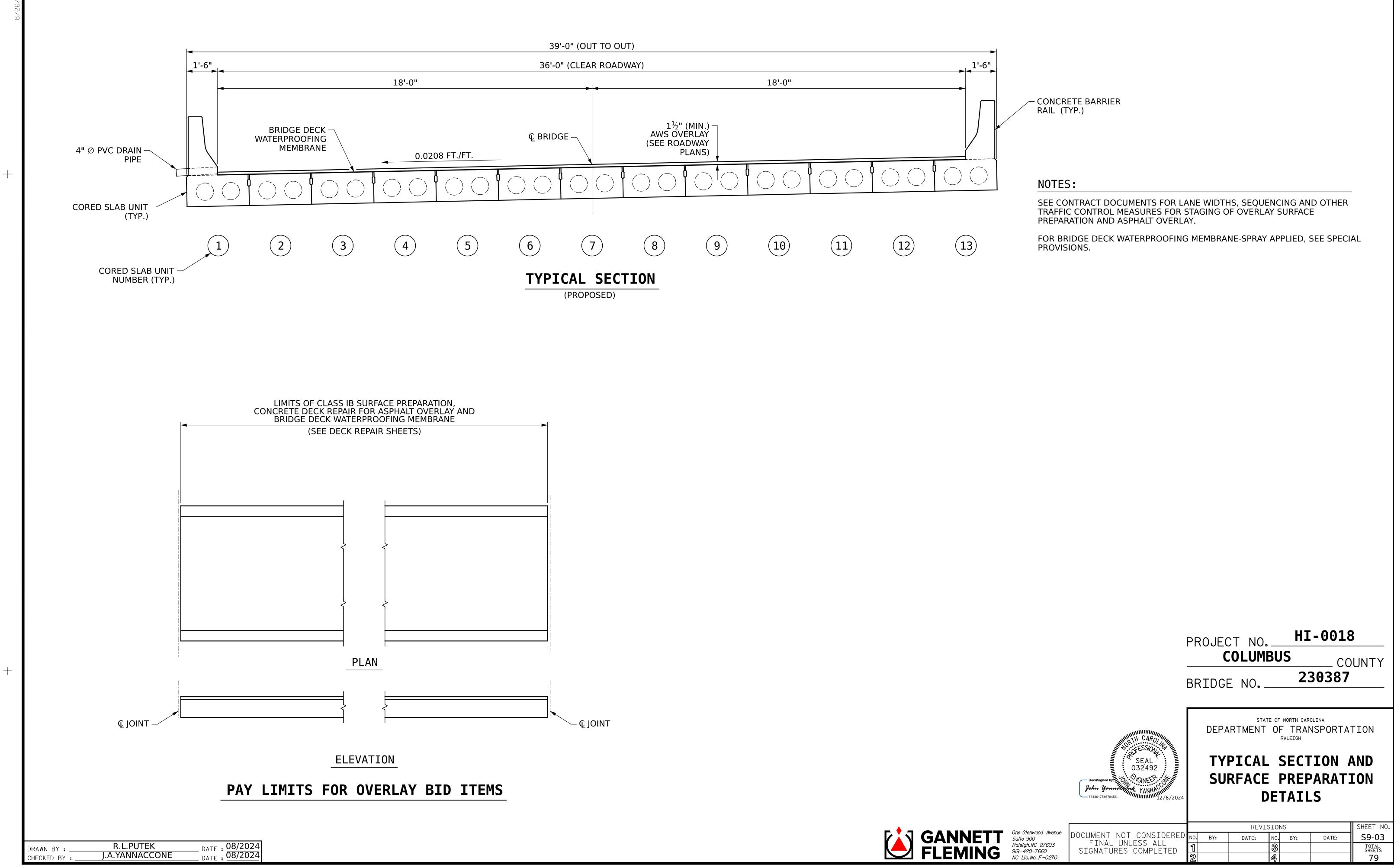
FOR ASPHALT PLUG JOINTS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR PILE ENCAPSULATION, SEE SPECIAL PROVISIONS.

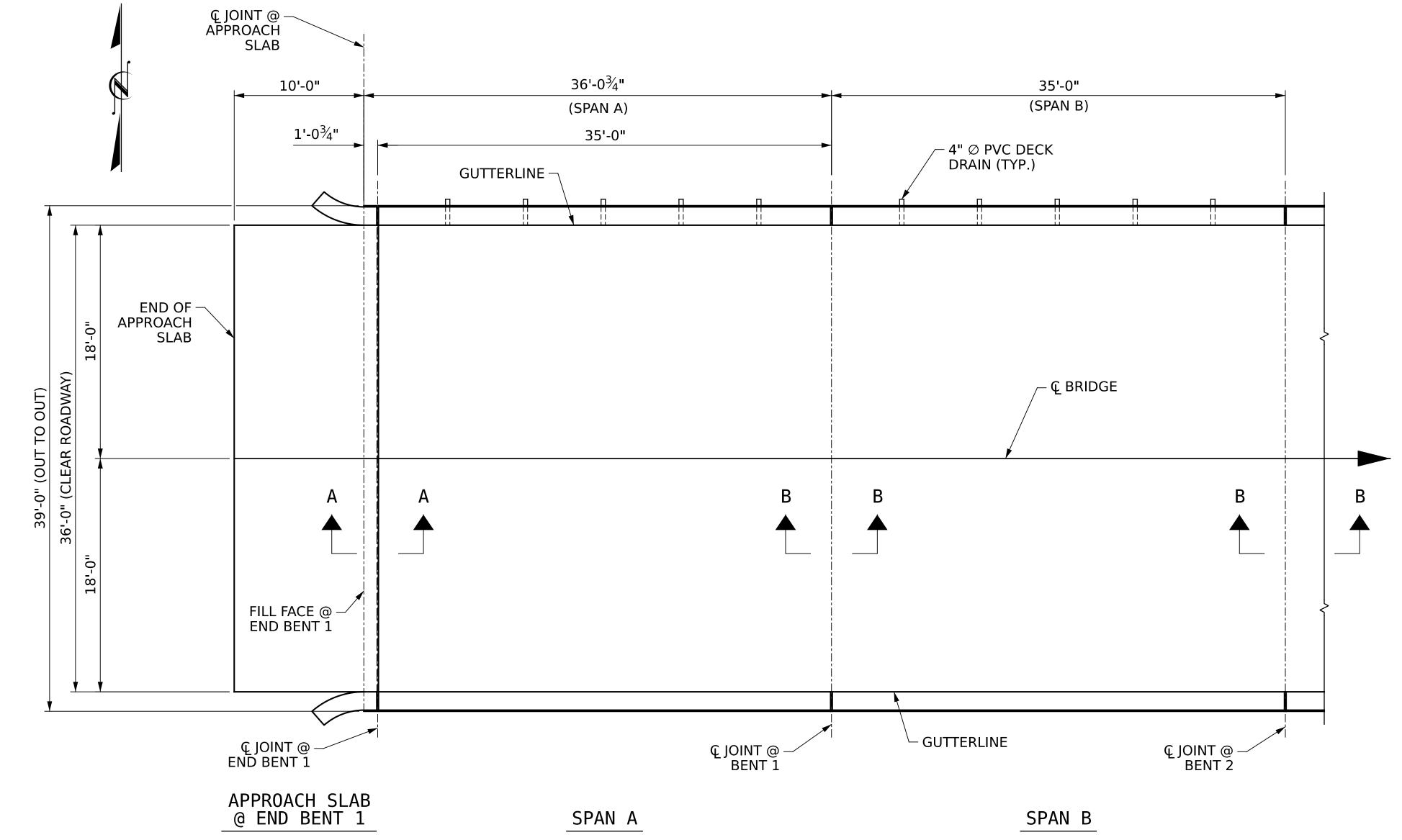
FOR BRIDGE DECK WATERPROOFING MEMBRANE-SPRAY APPLIED, SEE SPECIAL PROVISIONS.

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	DocuSigned by	SEAL 32492 GINEER YANNACUMU		F0R S 74 -	BRIDO	BYP WE	-
27603		CONSIDERED ESS ALL COMPLETED	NO. ВҮ: 1 2	REVIS DATE:	SIONS NO. BY: 3 4	DATE:	SHEET NO. S9-02 TOTAL SHEETS 79





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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.

FOR SECTION A-A AND B-B. SEE "ASPHALT PLUG JOINT DETAILS" SHEET.

FOR CLASS IB SURFACE PREPARATION, SEE BRIDGE DECK ASPHALT OVERLAY SPECIAL PROVISION.

FOR BRIDGE DECK WATERPROOFING MEMBRANE-SPRAY APPLIED, SEE SPECIAL PROVISIONS.

FOR ASPHALT OVERLAY, SEE ROADWAY PLANS.

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



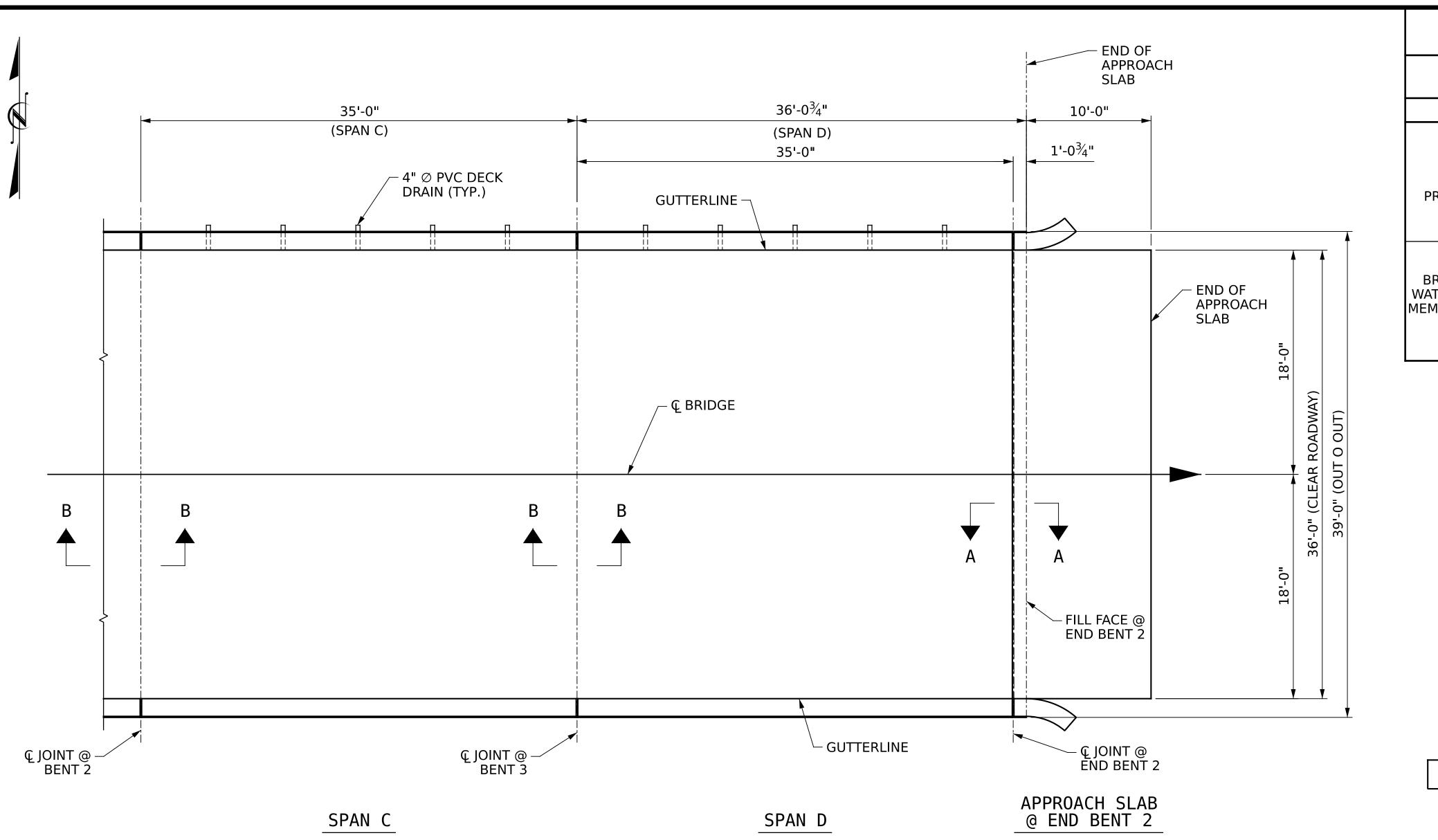
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AS	-BUILT QUANTITY REP	AIR TABL	E					
DECK SURFACE REPAIR & APPROACH SLAB REPAIR								
		ESTIMATE	ACTUAL					
	APPROACH SLAB @ END BENT 1	40.0 SQ. YDS.						
ASS IB	SPAN A	144.3 SQ. YDS.						
RFACE	SPAN B	140.0 SQ. YDS.						
ARATION								
	APPROACH SLAB @ END BENT 1	6.0 SQ. YDS.						
GE DECK PROOFING ANE-SPRAY	SPAN A	144.3 SQ. YDS.						
	SPAN B	140.0 SQ. YDS.						
PLIED								

CLASS IB SURFACE PREPARATION

	PROJECT NO. HI-0018 Columbus County
	BRIDGE NO. 230387 SHEET 1 OF 2
NUMBER CAROLINA	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH
DocuSigned by: 6 FESSION John Yannational YANNAC	DECK REPAIRS SPAN A W/APPROACH SLAB & SPAN B
OCUMENT NOT CONSIDERED	REVISIONS SHEET NO. NO. BY: DATE: NO. BY: DATE: S9-04
27603 FINAL UNLESS ALL 660 SIGNATURES COMPLETED F-0270	1 3 TOTAL 2 4 79

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NOTES

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FOR CLASS IB SURFACE PREPARATION, SEE BRIDGE DECK ASPHALT OVERLAY SPECIAL PROVISION.

FOR BRIDGE DECK WATERPROOFING MEMBRANE-SPRAY APPLIED, SEE SPECIAL PROVISIONS.

FOR ASPHALT OVERLAY, SEE ROADWAY PLANS.

DRAWN BY : _	R.L.PUTEK	DATE : 0	8/2024
CHECKED BY :	J.A.YANNACCONE	DATE : 0	8/2024



AS-BUILT QUANTITY REPAIR TABLE

DECK SURFACE REPAIR & APPROACH SLAB REPAIR

		ESTIMATE	ACTUAL
CLASS IB			
SURFACE PREPARATION	SPAN C	140.0 SQ. YDS.	
	SPAN D	144.3 SQ. YDS.	
	APPROACH SLAB @ END BENT 2	40.0 SQ. YDS.	
BRIDGE DECK			
ATERPROOFING MBRANE-SPRAY	SPAN C	140.0 SQ. YDS.	
APPLIED	SPAN D	144.3 SQ. YDS.	
	APPROACH SLAB @ END BENT 2	6.0 SQ. YDS.	

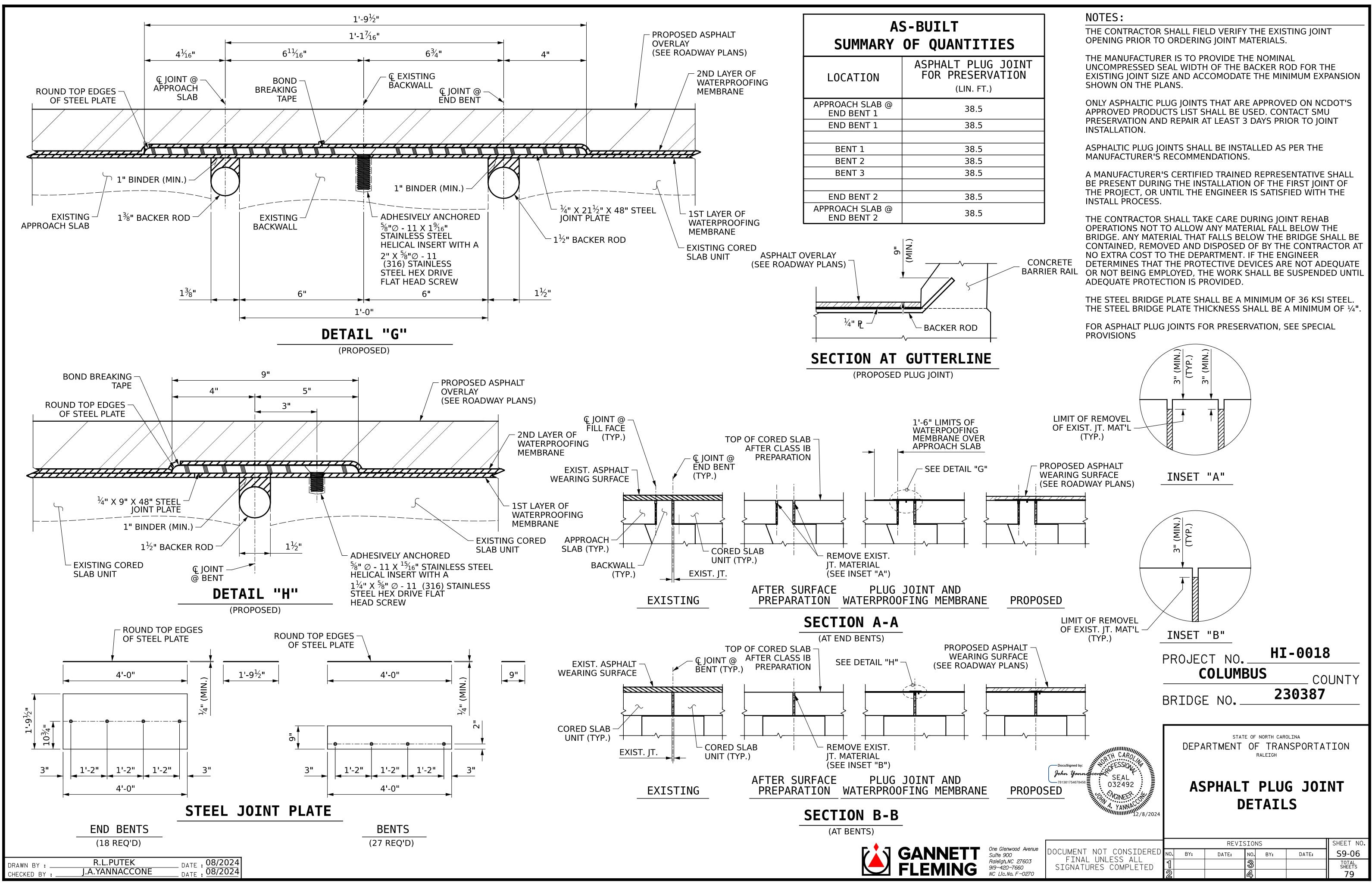
CLASS IB SURFACE PREPARATION

		PROJECT NO. HI-0018 Columbus County
		BRIDGE NO. 230387
	NUMBER CAROL	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH
	DocuSigned by: John Yannalson A, YANNA 781361754678456	DECK REPAIRS SPAN C & SPAN D W/APPROACH SLAB
ood Avenue	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL	
27603 7660 F-0270	SIGNATURES COMPLETED	1 3 TOTAL SHEETS 2 4 79

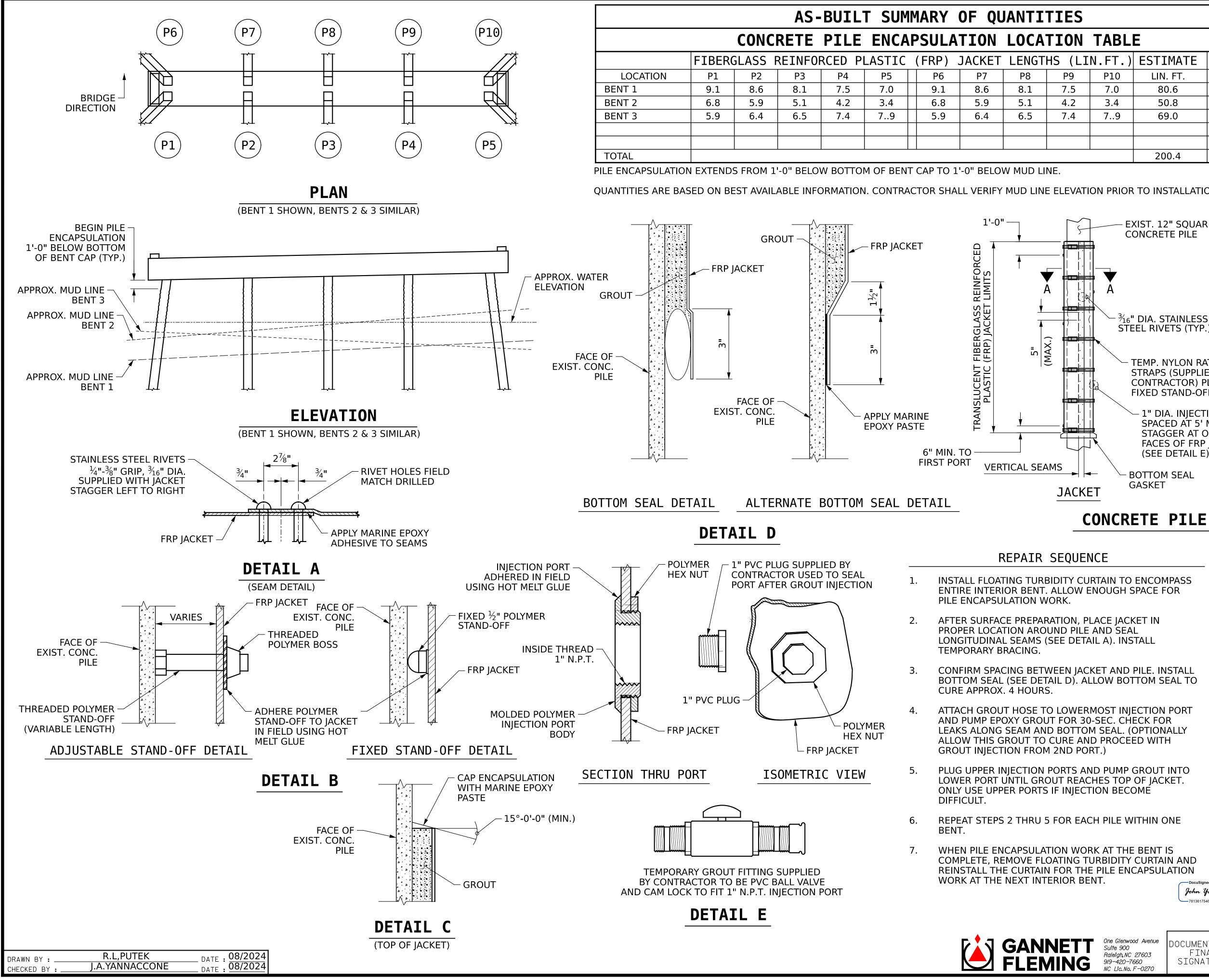
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	AS-BUILT SUMMARY OF QUANTITIES												
		CONC	CRETE	PILE	E ENCA	PSULA	TION	LOCA	TION	TABL	E		NOTE:
	FIBER	GLASS	REINFO	RCED	PLASTIC	(FRP)	JACKET	LENGT	HS (LI	N.FT.)	ESTIMATE	ACTUAL	THE FLOATING TURBIDITY CURTAIN QUANTITY SHOWN ON THE TOTAL BILL OF MATERIAL IS
LOCATION	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	LIN. FT.	LIN. FT.	BASED ON A 3.5' WATER DEPTH AND THE
BENT 1	9.1	8.6	8.1	7.5	7.0	9.1	8.6	8.1	7.5	7.0	80.6		LENGTH NECESSARY TO FULLY ENCOMPASS
BENT 2	6.8	5.9	5.1	4.2	3.4	6.8	5.9	5.1	4.2	3.4	50.8		ONE INTERIOR BENT.
BENT 3	5.9	6.4	6.5	7.4	79	5.9	6.4	6.5	7.4	79	69.0		FOR FLOATING TURBIDITY CURTAIN, SEE
													SPECIAL PROVISIONS.
													CONTRACTOR SHALL MAKE ALL REASONABLE
TOTAL 200.4								200.4		EFFORTS TO LIMIT CONTAMINATION OF THE			
ILE ENCAPSULATI	ON EXTEND	S FROM	1'-0" BELO	W BOTT	OM OF BENT	Γ CAP TO 3	1'-0" BELO\	W MUD LI	NE.				WATER DURING EXCAVATION FOR THE PILE

QUANTITIES ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY MUD LINE ELEVATION PRIOR TO INSTALLATION OF JACKETS

- EXIST. 12" SQUARE CONCRETE PILE

ENCAPSULATION, PUMPING OF EPOXY GROUT, AND ALL OTHER WORK TO INSTALL THE PILE ENCAPSULATION.

- STEEL RIVETS (TYP.) TEMP. NYLON RATCHET
- STRAPS (SUPPLIED BY THE CONTRACTOR) PLACED AT FIXED STAND-OFF LOCATIONS
- 1" DIA. INJECTION PORT SPACED AT 5' MAXIMUM, STAGGER AT OPPOSITE FACES OF FRP JACKET (SEE DETAIL E)(TYP.)
- BOTTOM SEAL GASKET

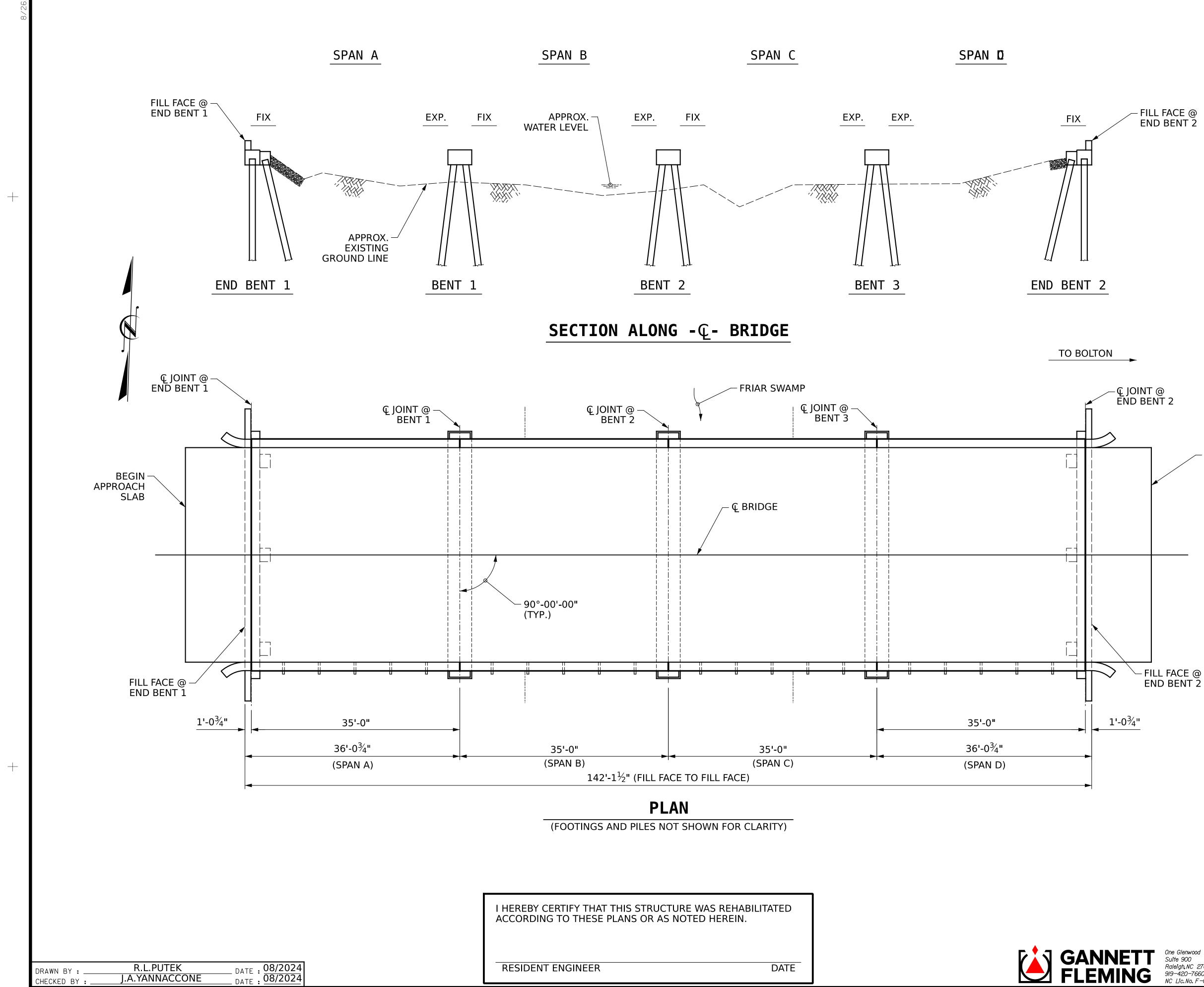
-*POLYMER STAND-OFF ³/₈" MIN. (TYP.) - VERTICAL SEAM (TYP.) EXIST. 12" SQUARE CONCRETE PILE – FRP JACKET SECTION A-A

* MAXIMUM SPACING BETWEEN FIXED STAND-OFFS SHALL BE 18" THE LONGITUDINAL DIRECTION AND 12" THE TRAVERSE DIRECTION (SEE DETAIL B)

CONCRETE PILE ENCAPSULATION

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NOTES:

GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 07/16/2024.

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

SCOPE OF WORK:

- REMOVE ASPHALT WEARING SURFACE BY SCARIFICATION.
- INSTALL WATERPROOFING MEMBRANE.
- OVERLAY PREPARED TOP OF CORED SLABS WITH ASPHALT OVERLAY.
- REMOVE EXISTING JOINT AND INSTALL ASPHALT PLUG JOINTS.
- ENCAPSULATE CONCRETE PILES WITH FRP JACKETS.



	PROJECT NO. HI-0018 COLUMBUS COUNTY 230388
	DRIDGE NU.
	SHEET 1 OF 2
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DocuSigned by: GINER	FOR BRIDGE ON US 74 - US 76 BYP EBL
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D-7660 SIGNATURES COMPLETED	1 3 TOTAL 3 4 79