

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.

BRIDGE COORDINATES

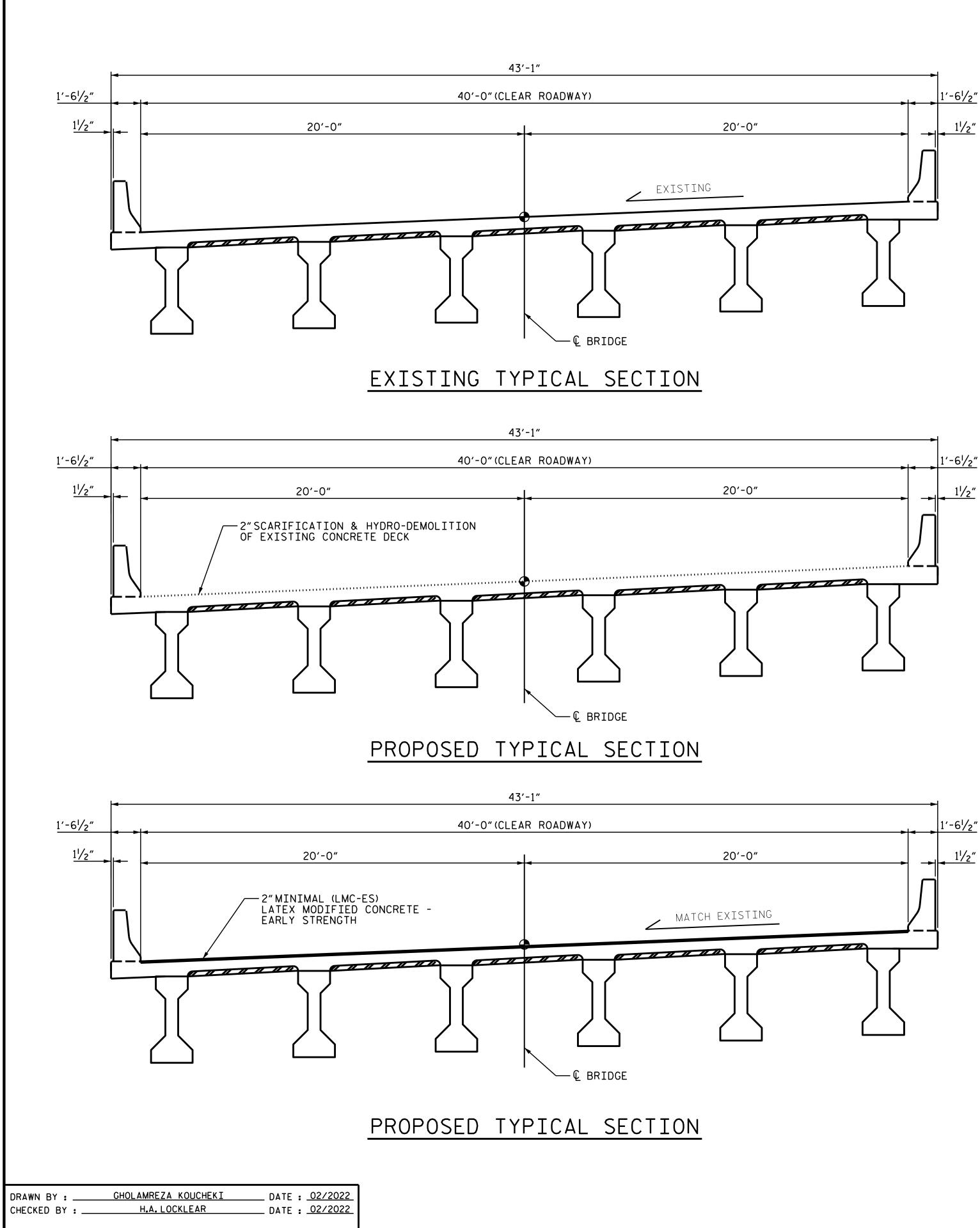
LAT: 35.84786° LONG: -82.52542°

DRAWN BY :	M.ALINAGHIAN	DATE : <u>6/2019</u>
CHECKED BY :	GHOLAMREZA KOUCHEKI	DATE : 2/2022

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NOTES 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 OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THAT 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 BRIDGES SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW. 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. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASK FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC. 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. FOR TRAFFIC CONTROL AND LIMITS OF PHASING OF CONSTRUCTION, SEE TRAFFIC CONTROL SPECIAL PROVISIONS. EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATION OF BRIDGE DECK. FOR SCARIFYING BRIDGE DECK, HYDRO-DEMOLITION OF BRIDGE DECK, AND CLASS II SURFACE PREPARATION, SEE OVERLAY SURFACE PREPARATION SPECIAL PROVISION. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF THE DECK DURING HYDRO-DEMOLITION. FOR PLACING AND FINISHING LATEX MODIFIED CONCRETE -EARLY STRENGTH (LMC-ES), SEE LATEX MODIFIED CONCRETE-EARLY STRENGTH SPECIAL PROVISIONS. LONGITUDINAL CONSTRUCTION JOINTS SHALL BE LOCATED ALONG THE CENTERLINE OR EDGE OF TRAVEL LANES. DURING CONSTRUCTION, BERMS OR APPROPRIATE MEASURES SHALL BE USED TO ENSURE HYDRO-DEMOLITION WATER DOES NOT MIGRATE INTO ACTIVE TRAVEL LANES. THE CONTRACTOR SHALL COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS, SEE OVERLAY SURFACE PREPARATION SPECIAL PROVISIONS. FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS. FOR FOAM JOINT SEAL FOR PRESERVATION. SEE SPECIAL PROVISIONS. FOR CONCRETE FOR DECK REPAIRS, SEE SPECIAL PROVISIONS. FOR VOLUMETRIC MIXER, SEE SPECIAL PROVISIONS. FOR ELASTOMERIC CONCRETE FOR PRESERVATION. SEE SPECIAL PROVISIONS.

	N	PROJ.NO. <u>I-5831A</u> <u>MADISON</u> CC BRIDGE NO 560550					
	SHEET 2 OF 2 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						
SEAL O31021 Docusigned by:	GENERAL DRAWING FOR BRIDGE ON INTERSTATE 26 EASTBOUND OVER SR 1352 (HIGGINS BRANCH RD.)						
Amhrid Male 05/02/2022	NO. BY:	REVIS		DATE:	SHEET NO. 56-02		
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EXISTING OVERLAY

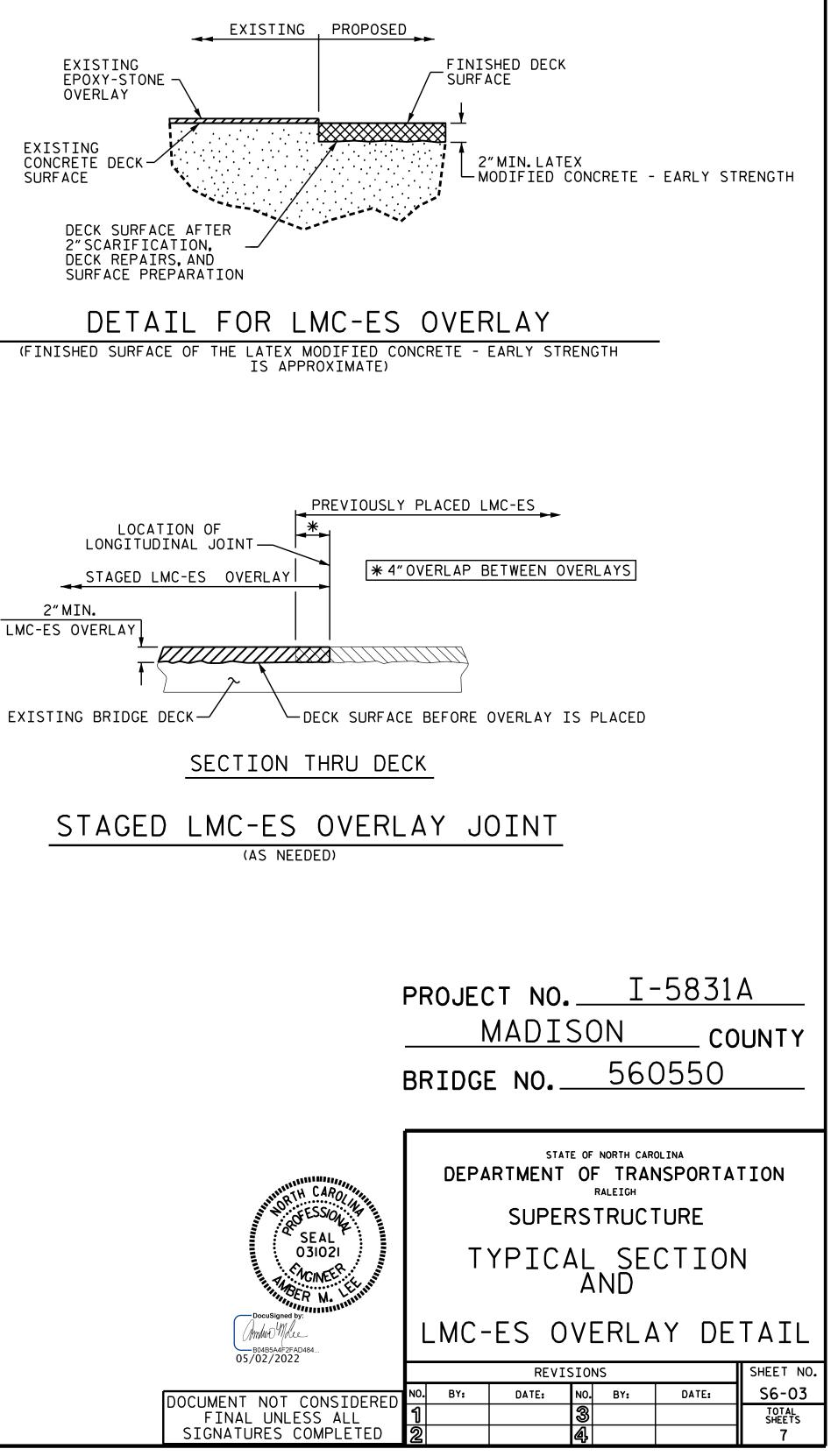
EXISTING CONCRETE DECK-SURFACE

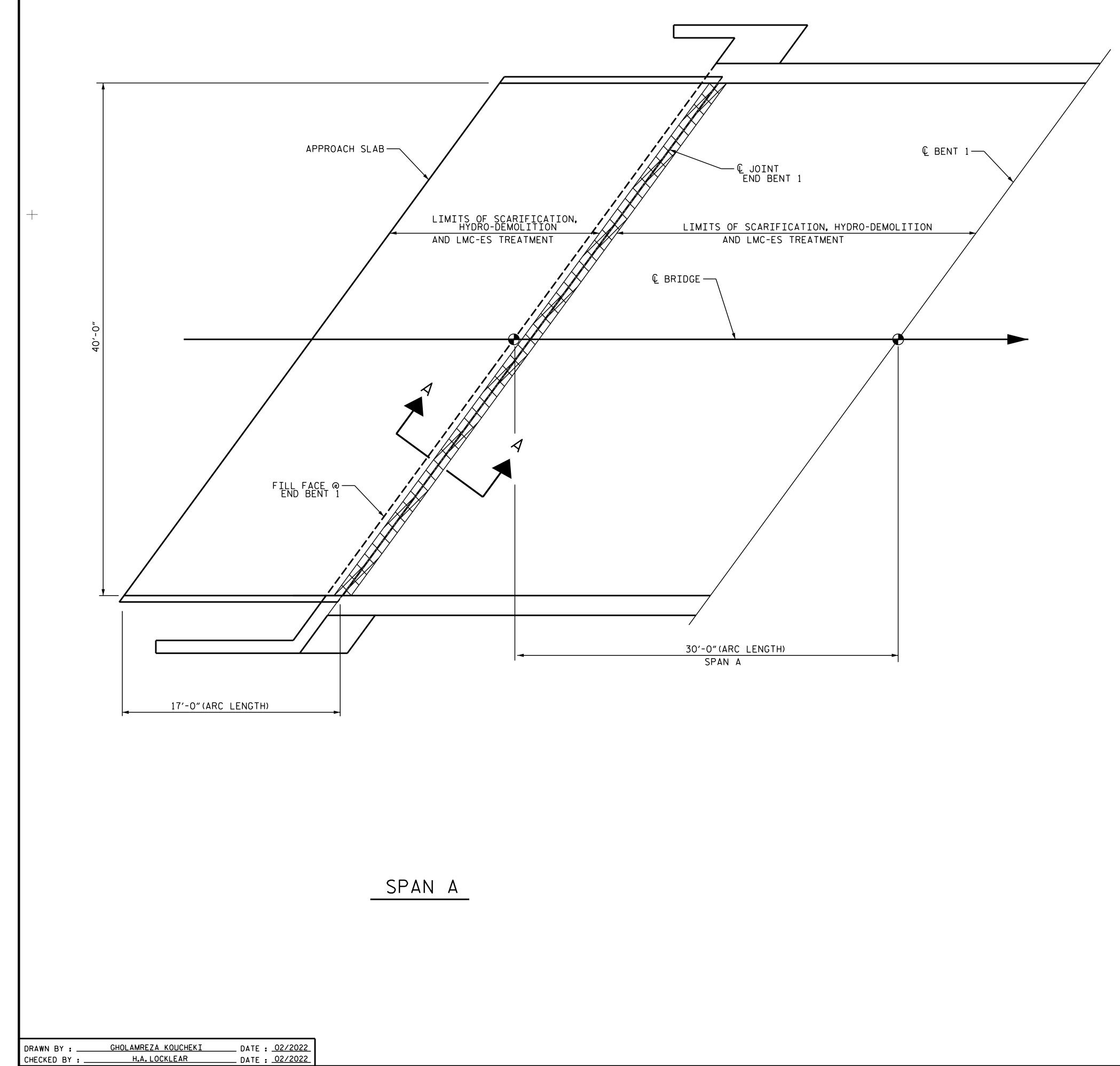
2" MIN. LMC-ES OVERLAY

NOTE

WHEN PREPARING THE SURFACE FOR LMC-ES OVERLAY ADJACENT TO THE PREVIOUSLY PLACED LMS-ES STAGE, THE PREVIOUSLY PLACED LMC-ES SHALL BE SAW-CUT TO THE FULL DEPTH OF THE LMC-ES AT THE CENTERLINE OF THE BRIDGE AND ALL LMC-ES IN THE 4"OVERLAY SHALL BE REMOVED WITH HAND TOOLS TO PLACEMENT OF LMC-ES IN THE SECOND STAGE.

SEE TRAFFIC CONTROL SPECIAL PROVISIONS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGGING OF OVERLAY SURFACE PREPARATION AND OVERLAY PLACEMENT.





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AS-BUILT REPAIR QU	JANITY 1	FABLE					
DECK SURFACE REPAIR - SPAN A							
	ESTIMATE	ACTUAL					
CLASS II SURFACE PREPARATION	0.0 SQ.YDS.						
LATEX MODIFIED CONCRETE-ES	8.2 CU.YDS.						
PLACING & FINISHING LMC-ES OVERLAY	131.0 SQ. YDS.						
SCARIFYING BRIDGE DECK	131.0 SQ. YDS.						
HYDRO-DEMOLITION OF BRIDGE DECK	131.0 SQ. YDS.						
GROOVING BRIDGE FLOORS	1087.0 SQ.FT.						
DECK SURFACE REPAIR -	APPROACH S	SLAB					
	ESTIMATE	ACTUAL					
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.						
LATEX MODIFIED CONCRETE-ES	4.6 CU.YDS.						
PLACING & FINISHING LMC-ES OVERLAY	73.0 SQ.YDS.						
SCARIFYING BRIDGE DECK	73.0 SQ.YDS.						
HYDRO-DEMOLITION OF BRIDGE DECK	73.0 SQ.YDS.						
GROOVING BRIDGE FLOORS	606.0 SQ.FT.						

NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE BASED ON 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 ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED ON THE SQUARE YARD OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK.SEE SPECIAL PROVISIONS.

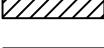
FOR SECTION A-A, SEE JOINT DETAILS, SHEET.

FOR LMC-ES OVERLAY, SEE SPECIAL PROVISION.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

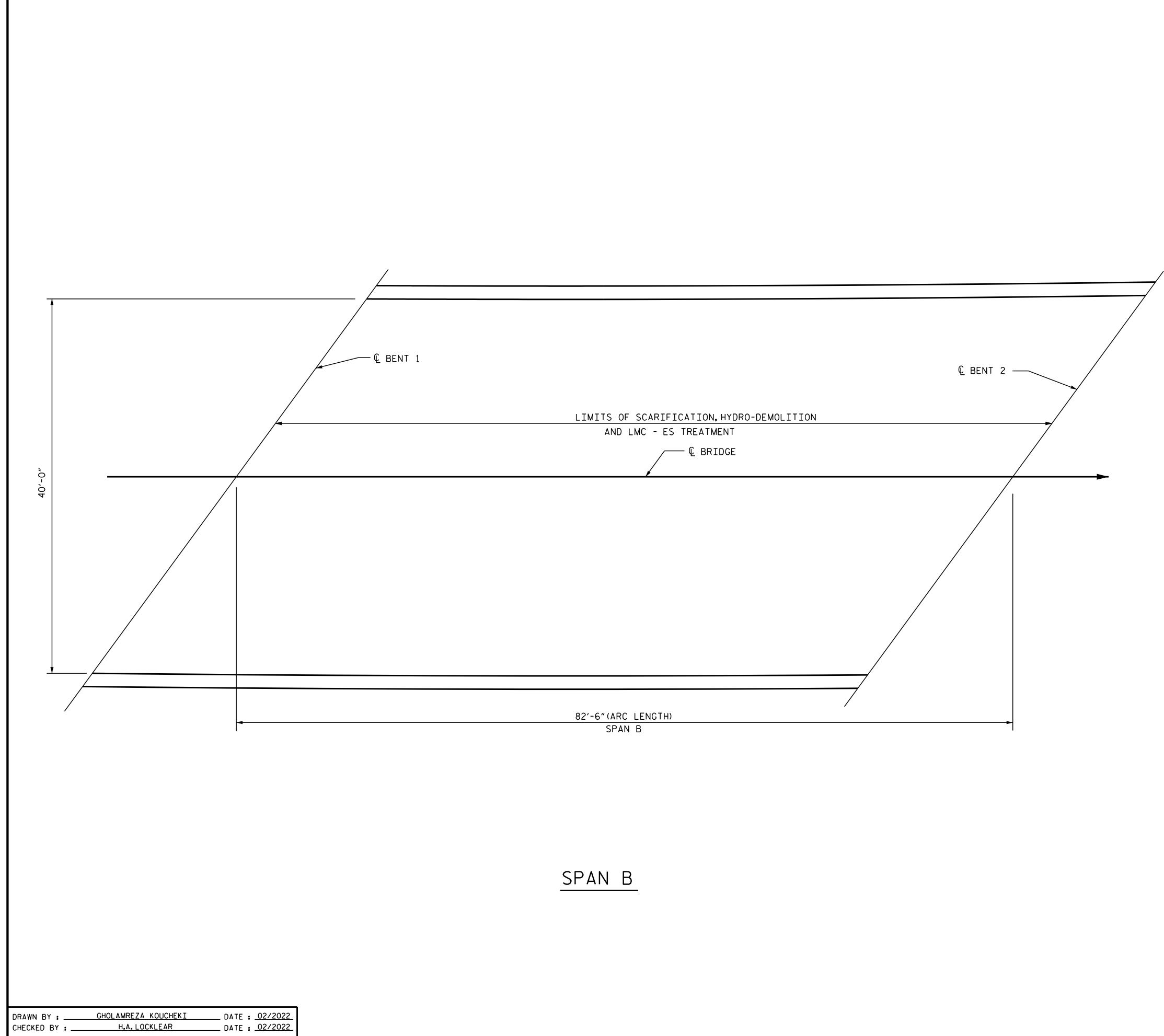
FOR BRIDGE JOINT DEMOLITION QUANTITIES,SEE FOAM JOINT DETAIL SHEET.

CLASS II SURFACE REPAIR



BRIDGE JOINT DEMOLITION

	PROJECT NO. <u>I-5831A</u> <u>MADISON</u> COUNTY BRIDGE NO. <u>560550</u> SHEET 1 OF 3						
	SHEET 1 OI	F 3					
NUMBER OF THE CAROLINE	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						
OR ESSION AFTER OBJORING SEAL 031021	DEC	k suf S	RFACE PAN	E REP A	AIR		
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AS-BUILT REPAIR QL	JANTITY	TABLE				
DECK SURFACE REPAIR - SPAN B						
ESTIMATE ACTUAL						
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.					
LATEX MODIFIED CONCRETE-ES	22.9 CU. YDS.					
PLACING & FINISHING LMC-ES OVERLAY	367.0 SQ. YDS.					
HYDRO-DEMOLITION OF BRIDGE DECK	367.0 SQ. YDS.					
SCARIFYING BRIDGE DECK	367.0 SQ.YDS.					
GROOVING BRIDGE FLOORS	3052.0 SQ.FT.					

NOTES

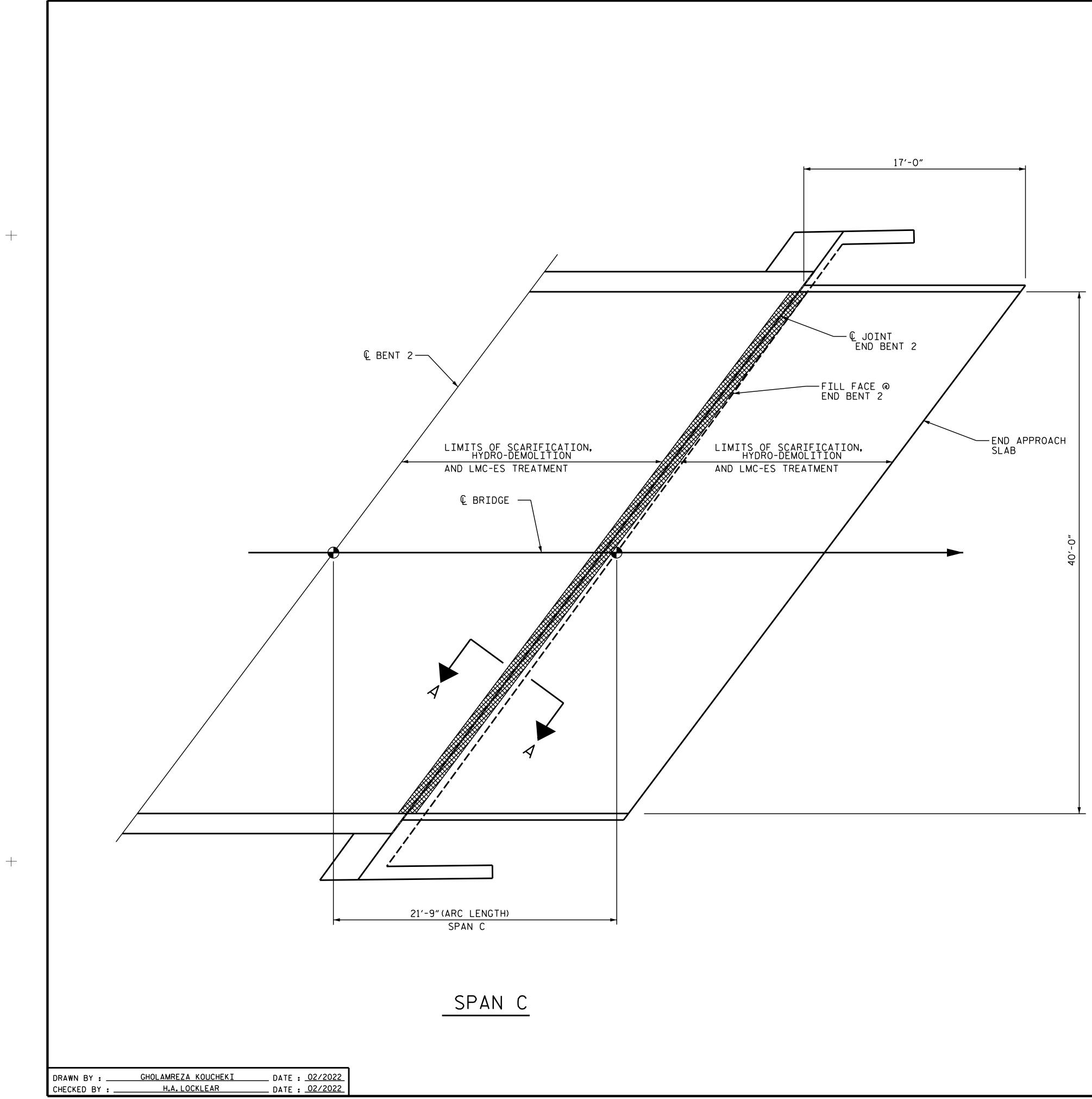
REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED ON THE SQUARE YARD OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE SPECIAL PROVISIONS.

FOR LMC-ES MATERIAL, SEE SPECIAL PROVISION.

CLASS II SURFACE PREPARATION

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NUMBER OF SSICE	DEPA		E OF NORTH CAR OF TRAI RALEIGH	OLINA NSPORTA	TION	
SEAL O31021	DEC	k SUI S	RFACE Pan	e rep B	AIR	
DocuSigned by: MMWD MALE B04B5A4F2FAD484						
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AS-BUILT REPAIR QU	JANITY 1	ABLE					
DECK SURFACE REPAIR - SPAN C							
	ESTIMATE	ACTUAL					
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.						
LATEX MODIFIED CONCRETE- ES	5.2 CU.YDS.						
PLACING & FINISHING LMC-ES OVERLAY	94.0 SQ.YDS.						
SCARIFYING BRIDGE DECK	94.0 SQ.YDS.						
HYDRO-DEMOLITION OF BRIDGE DECK	94.0 SQ.YDS.						
GROOVING BRIDGE FLOORS	782.0 SQ.FT.						
DECK SURFACE REPAIR -	APPROACH S	SLAB					
	ESTIMATE	ACTUAL					
CLASS II SURFACE PREPARATION	0.0 SQ.YDS.						
LATEX MODIFIED CONCRETE- ES	4.1 CU. YDS.						
PLACING & FINISHING LMC-ES OVERLAY	73.0 SQ.YDS.						
SCARIFYING BRIDGE DECK	73.0 SQ.YDS.						
HYDRO-DEMOLITION OF BRIDGE DECK	73.0 SQ. YDS.						
GROOVING BRIDGE FLOORS	606.0 SQ.FT.						

NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE BASED ON 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 ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED ON THE SQUARE YARD OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK.SEE SPECIAL PROVISIONS.

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

FOR LMC-ES OVERLAY, SEE SPECIAL PROVISION.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

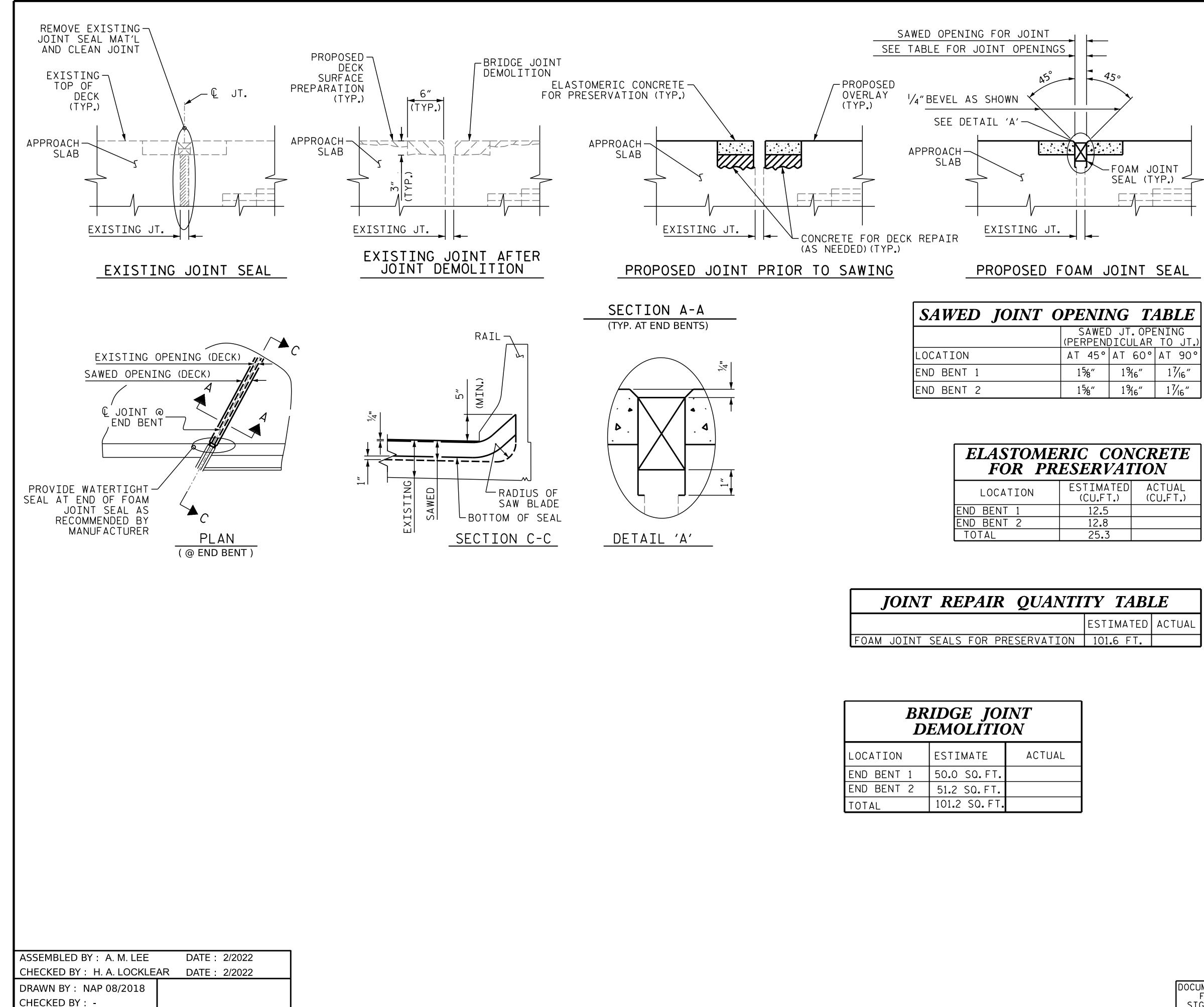
FOR BRIDGE JOINT DEMOLITION QUANTITIES, SEE FOAM JOINT DETAIL SHEET.

CLASS II SURFACE REPAIR



BRIDGE JOINT DEMOLITION

	PROJECT NO. <u>I-5831A</u> <u>MADISON</u> COUNTY BRIDGE NO. <u>560550</u> SHEET 3 OF 3							
	SHEET 3 0	F 3						
REAL O31021	DEPARTMENT OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH DECK SURFACE REPAIR SPAN C							
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ELASTOME FOR PR	RIC CON ESERVAT	-
LOCATION	ESTIMATED (CU.FT.)	(
END BENT 1	12.5	
END BENT 2	12.8	
TOTAL	25.3	

JO	DINT	RE.	PAI	R QU	ANTI	TY	TAB
						ESTI	MATED
FOAM J	OINT	SEALS	FOR	PRESERVA	ATION	101.6	βFT.

BRIDGE JOINT DEMOLITION						
LOCATION	ESTIMATE	ACTUAL				
END BENT 1	50.0 SQ.FT.					
END BENT 2	51.2 SQ.FT.					
TOTAL	101.2 SQ.FT.					

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 $\frac{1}{4}$, 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 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 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 JOINTS IN LIEU OF SAWING THE JOINT.

THE INSTALLED FOAM JOINTS SHALL BE WATER TIGHT.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL SAW CUT TO A NOMINAL DEPTH OF $\frac{1}{2}$ "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.

FINAL SURFACE OF THE JOINT DEMOLITION AREA PRIOR TO PLACEMENT OF CONCRETE REPAIR MATERIAL OR ELASTOMERIC CONCRETE SHOULD BE REASONABLY FLAT AND LEVEL. ENGINEER SHALL DETERMINE THE ACCEPTABLITIY OF THE SURFACE PRIOR TO PLACEMENT OF REPAIR CONCRETE OR ELASTOMERIC CONCRETE.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.

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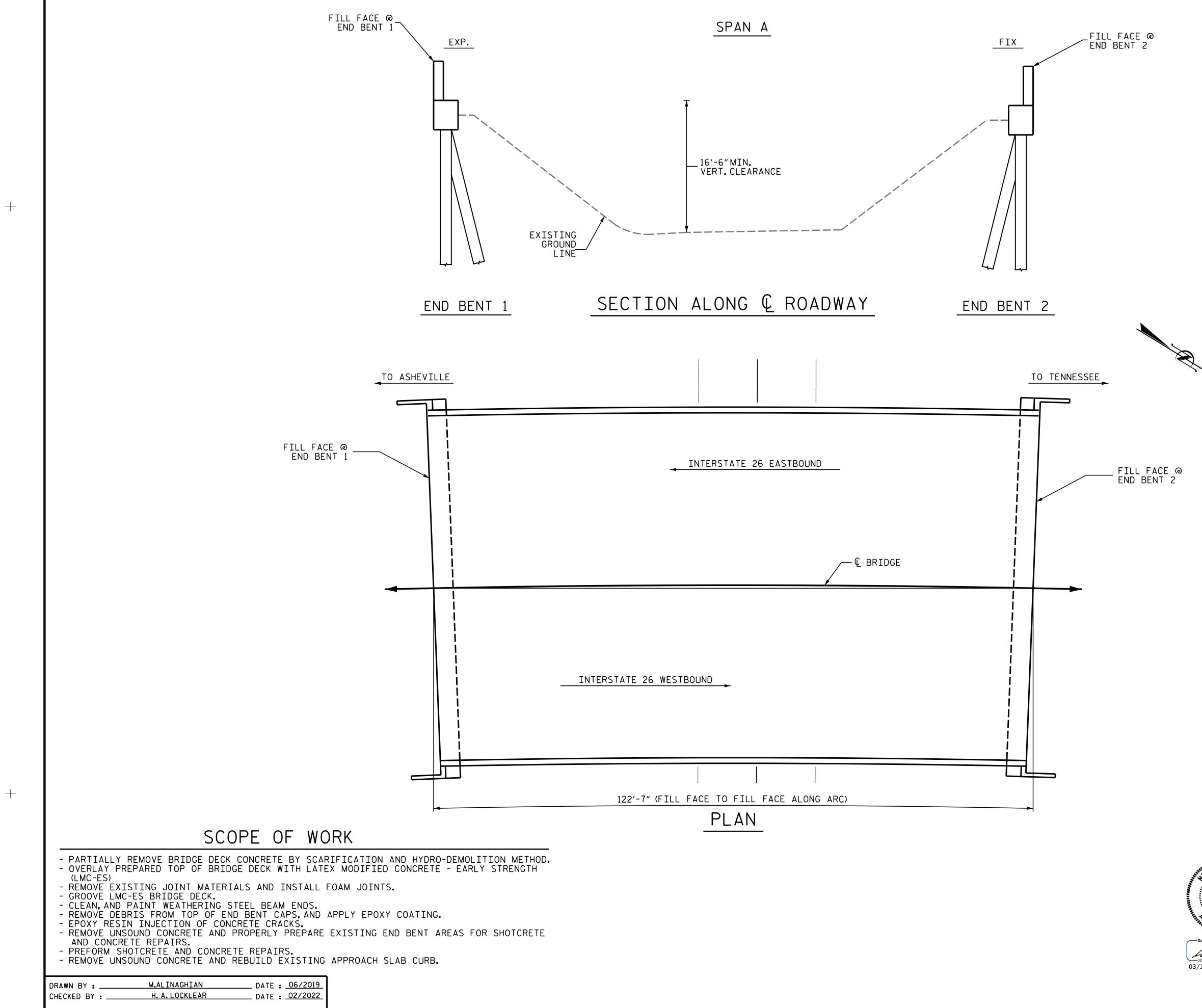
I-5831A PROJECT NO._ MADISON

COUNTY 560550 BRIDGE NO.__

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH STANDARDS

FOAM JOINT SEALS FOR PRESERVATION DETAILS

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NOTES

GENERAL DRAWING INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 08/05/2020. BRIDGE ORIENTATION CONFORMS TO THE ORIGINAL BRIDGE PLANS.

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

RESIDENT ENGINEER

DATE

	PF					-5831	Α	
		N	MADIS	<u>S(</u>)N	CO	UNTY	
	BF	BRIDGE NO. 560551						
	SH	EET 1 O	F 2					
RTH CAROLAND		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						
SEAL SEAL	GENERAL DRAWING							
SEAL 35647 CINEER AM A. CONTINUE MAN A. CONTINUE SER M. HUMAN		FOR BRIDGE ON INTERSTATE 26 OVER SR 1346 (BEAR BRANCH ROAD)						
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18/2022 03/18/2022484		REVISIONS					SHEET NO.	
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