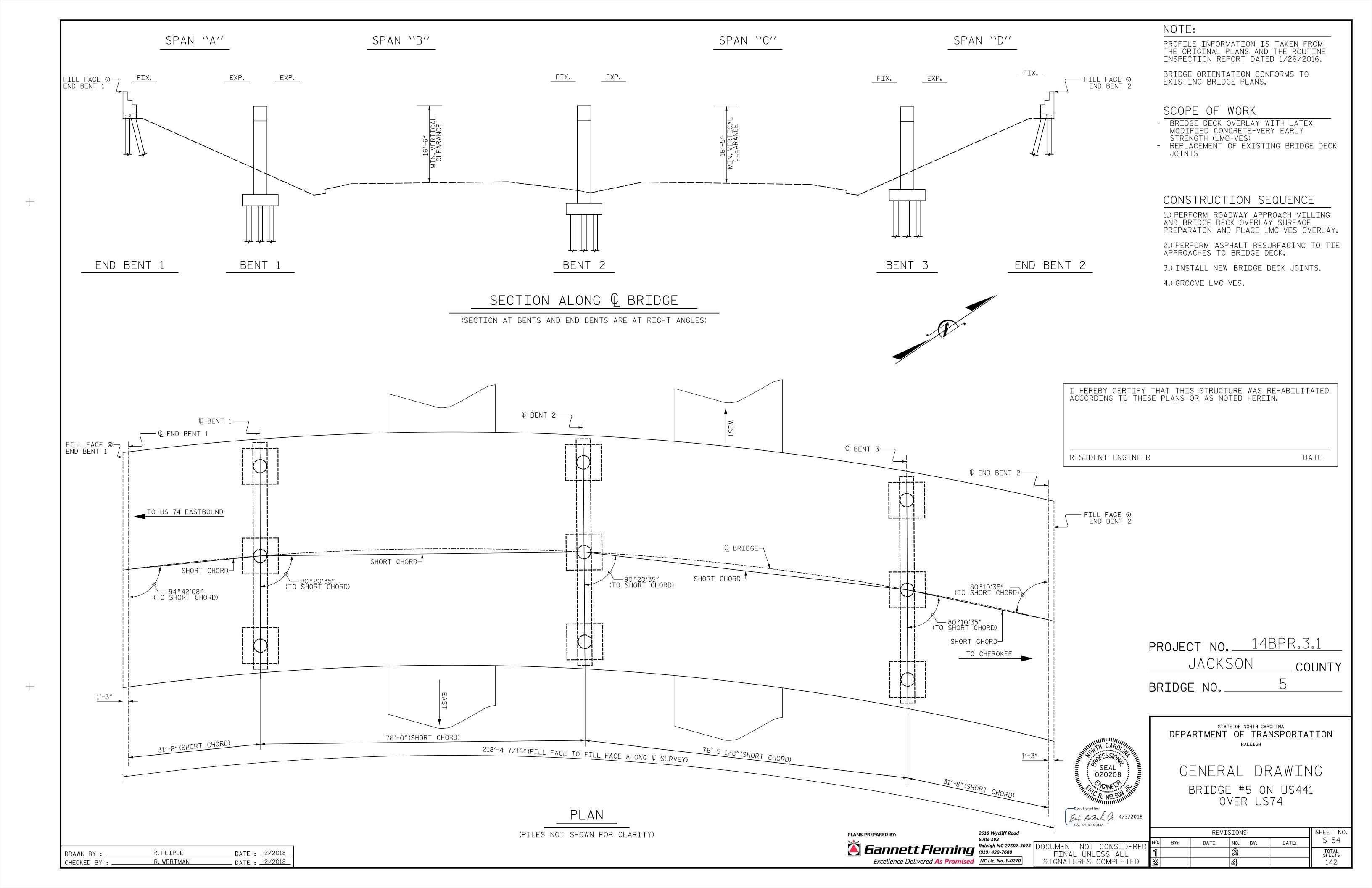
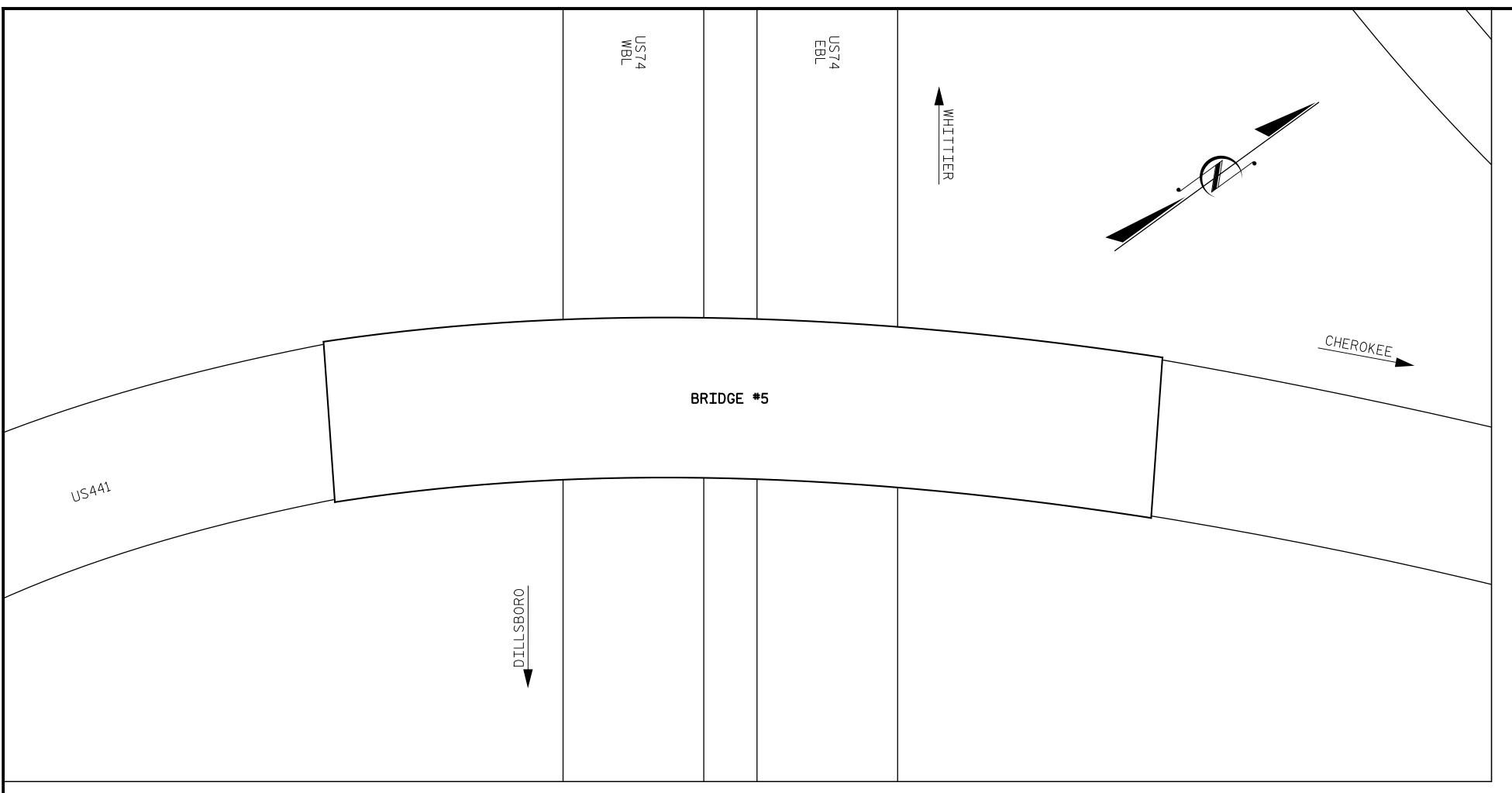
This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

This file or an individual page shall not be considered a certified document.





LOCATION SKETCH

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

GENERAL 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.

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

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

ROADWAY MILLING IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN FOR MILLING AND RESURFACING ARE APPROXIMATE. MILL AND RESURFACE AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG LANE LINES OR EDGE LINES UNLESS OTHERWISE NOTED ON THE PLANS.

THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THRU OF THE DECK DURING HYDRO-DEMOLITION.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO AND DURING REPAIR OF BRIDGE DECKS. WHEN RAIN IS PREDICTED BETWEEN WORK PERIODS THE CONTRACTOR SHALL REMOVE DECK DRAIN SEAL DEVICES. REINSTALL DECK DRAIN DEVICES PRIOR TO RESUMING DECK REPAIR ACTIVITIES.

DURING CONSTRUCTION, BERMS OR APPROPRIATE MEASURES SHALL BE USED TO CONTROL RUN-OFF OF HYDRO DEMOLITION WATER FROM FLOWING ACROSS TRAVEL LANES.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR SCARIFYING BRIDGE DECK, HYDRO-DEMOLITION OF BRIDGE DECK, AND CLASS II SURFACE PREPARATION. SEE SPECIAL PROVISIONS.

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

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR SILICONE JOINT SEALANT. SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR REMOVE AND REPLACE BRIDGE DECK ISLAND, SEE SPECIAL PROVISIONS.

PROJECT NO. 14BPR.3.1 JACKSON COUNTY BRIDGE NO.__



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING

BRIDGE #5 ON US441 OVER US74

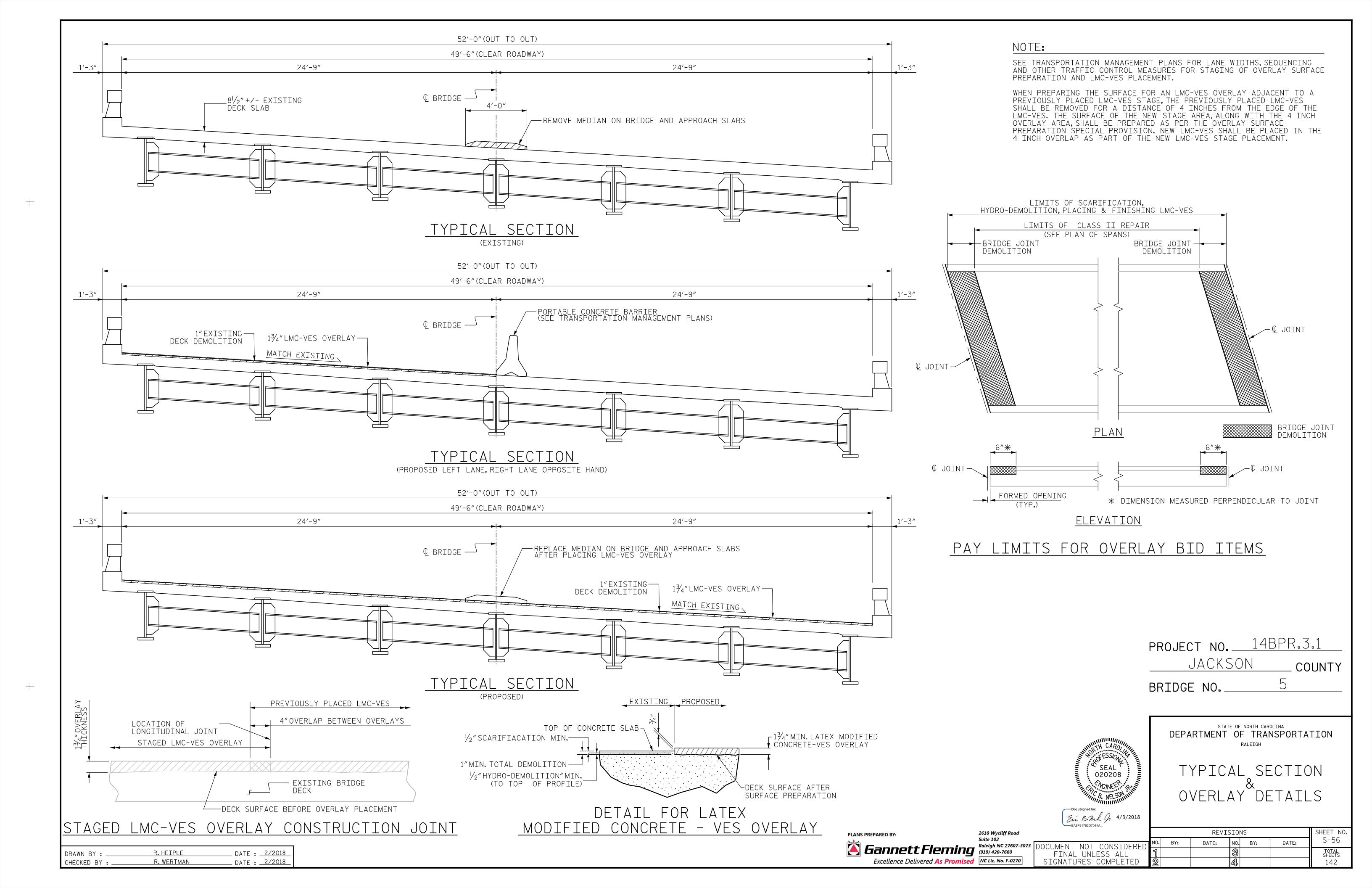
SHEET NO. REVISIONS S-55 NO. BY: DATE: BY: TOTAL SHEETS

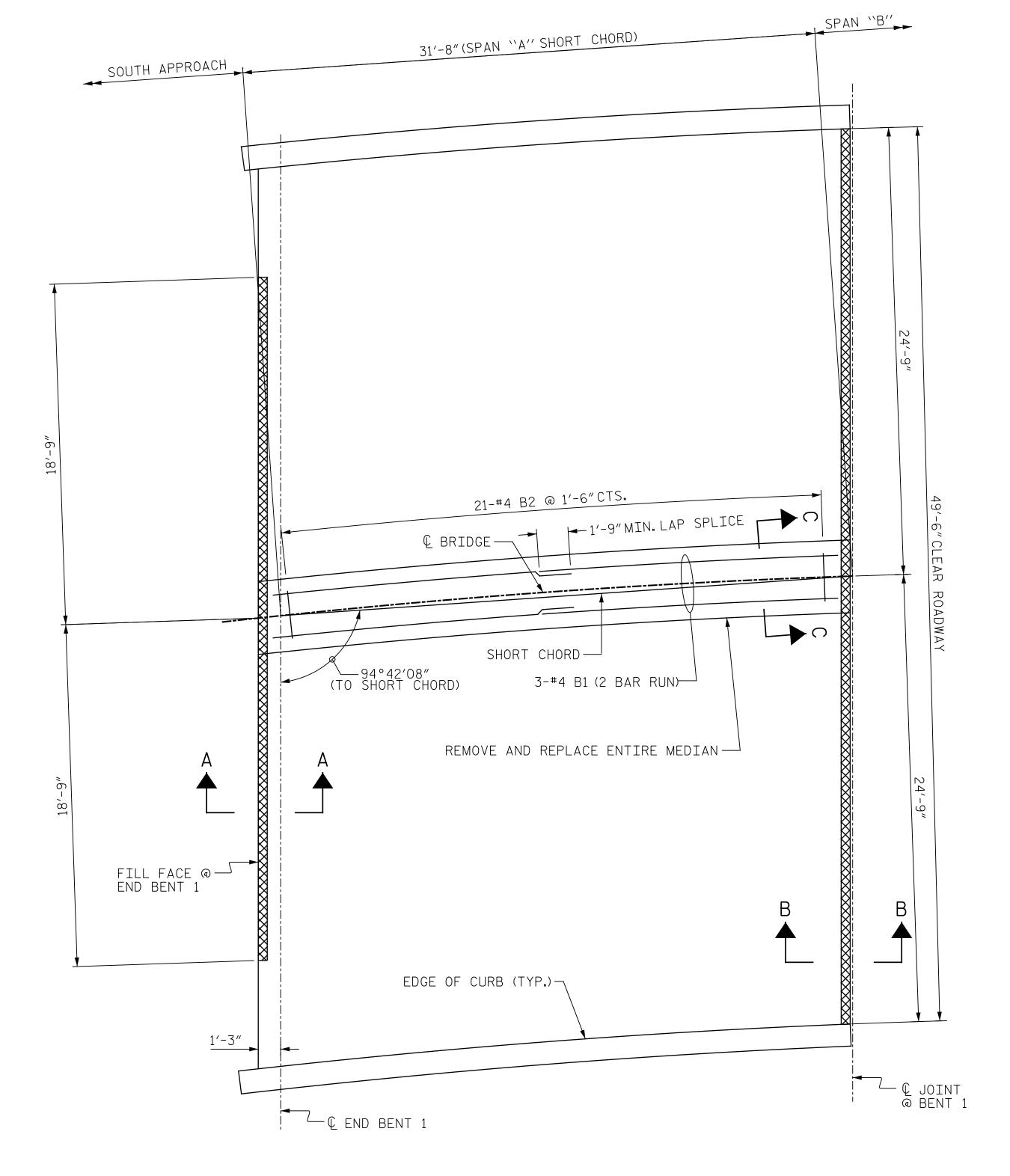
Gannett Fleming

Raleigh NC 27607-3073
(919) 420-7660

OCUMENT NOT CONSIDERE FINAL UNLESS ALL SIGNATURES COMPLETED

M. SPENCER _ DATE : <u>1/2018</u> DRAWN BY : __ _ DATE : <u>2/2018</u> R. WERTMAN CHECKED BY:





PLAN OF SPAN "A"

(SEE SHEET NO. S-61 FOR SECTIONS A-A, B-B, AND C-C)

SUMMARY OF QUANTITIES FOR SPAN "A"

ESTIMATE ACTUAL

SCARIFYING BRIDGE DECK

HYDRO-DEMOLITION OF BRIDGE DECK

CLASS II SURFACE PREPARATION

BRIDGE JOINT DEMOLITION

43.5 SF

GROOVING BRIDGE DECK

1248 SF

BII	BILL OF MATERIAL FOR CONCRETE MEDIAN							
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT			
B1	6	#4	STR.	16′-7″	66			
B2	21	#4	STR.	2′-7″	36			
REIN	REINFORCING STEEL 102 LBS.							
CLAS	CLASS AA CONCRETE 1.8 C.Y.							

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE MEDIAN STRIP IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINTS SHALL BE LOCATED AT A SPACING OF 8 FT. TO 10 FT. BETWEEN EXPANSION JOINTS. NO CONTRACTION JOINTS WILL BE REQUIRED FOR SEGMENTS LESS THAN 10 FEET IN LENGTH.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

- APPROX. AREA CLASS II SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

NO DEFICIENCIES NOTED DURING FIELD SCOPING INSPECTION.
THE CONTRACTOR AND ENGINEER SHALL INSPECT THE DECK
SURFACE AFTER SCARFICATION FOR POTENTIAL CLASS II
REPAIRS.



DEPARTMENT OF TRANSPORTATION

RALEIGH

SURFACE PREPARATION SPAN "A"

PLANS PREPARED BY:

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

Excellence Delivered As Promised

NC Lic. No. F-0270

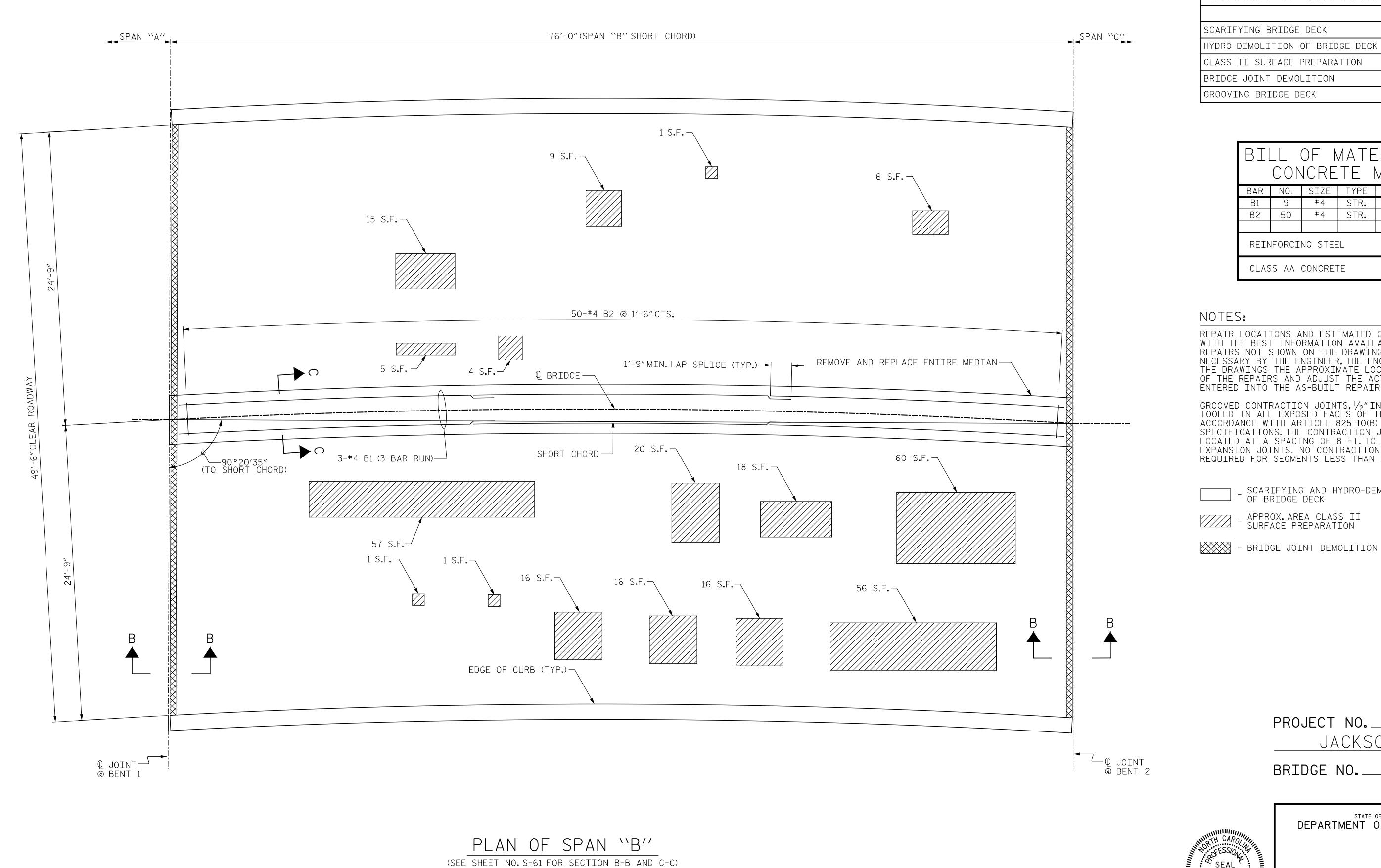
BA9F9176

DOCUMENT N
(919) 420-7660

FINAL L
SIGNATURE

B/10/ 01/ 02B/ 01//							
			REVI	SIO	NS		SHEET NO
NT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-57
IAL UNLESS ALL	1			8			TOTAL SHEETS
TURES COMPLETED	2			4			142

DRAWN BY: _____ R. HEIPLE ____ DATE: ____ 2/2018
CHECKED BY: _____ R. WERTMAN ____ DATE: ____ 2/2018



DATE: 2/2018
DATE: 2/2018

R. HEIPLE

R. WERTMAN

DRAWN BY : __

SUMMARY OF QUANTITIES FOR SPAN "B" ESTIMATE ACTUAL SCARIFYING BRIDGE DECK 419 SY HYDRO-DEMOLITION OF BRIDGE DECK 419 SY 33.4 SY CLASS II SURFACE PREPARATION 49**.**5 SF BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK 2951 SF

BILL OF MATERIAL FOR CONCRETE MEDIAN								
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT			
B1	9	#4	STR.	26'-0"	156			
B2	50	#4	STR.	2′-7″	86			
REINFORCING STEEL 242 LBS.								
CLAS	CLASS AA CONCRETE 4.2 C.Y.							

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ " IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE MEDIAN STRIP IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINTS SHALL BE LOCATED AT A SPACING OF 8 FT. TO 10 FT. BETWEEN EXPANSION JOINTS, NO CONTRACTION JOINTS WILL BE REQUIRED FOR SEGMENTS LESS THAN 10 FEET IN LENGTH.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX. AREA CLASS II SURFACE PREPARATION

> PROJECT NO. 14BPR.3.1 JACKSON COUNTY BRIDGE NO.__



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION SPAN "B"

PLANS PREPARED BY:

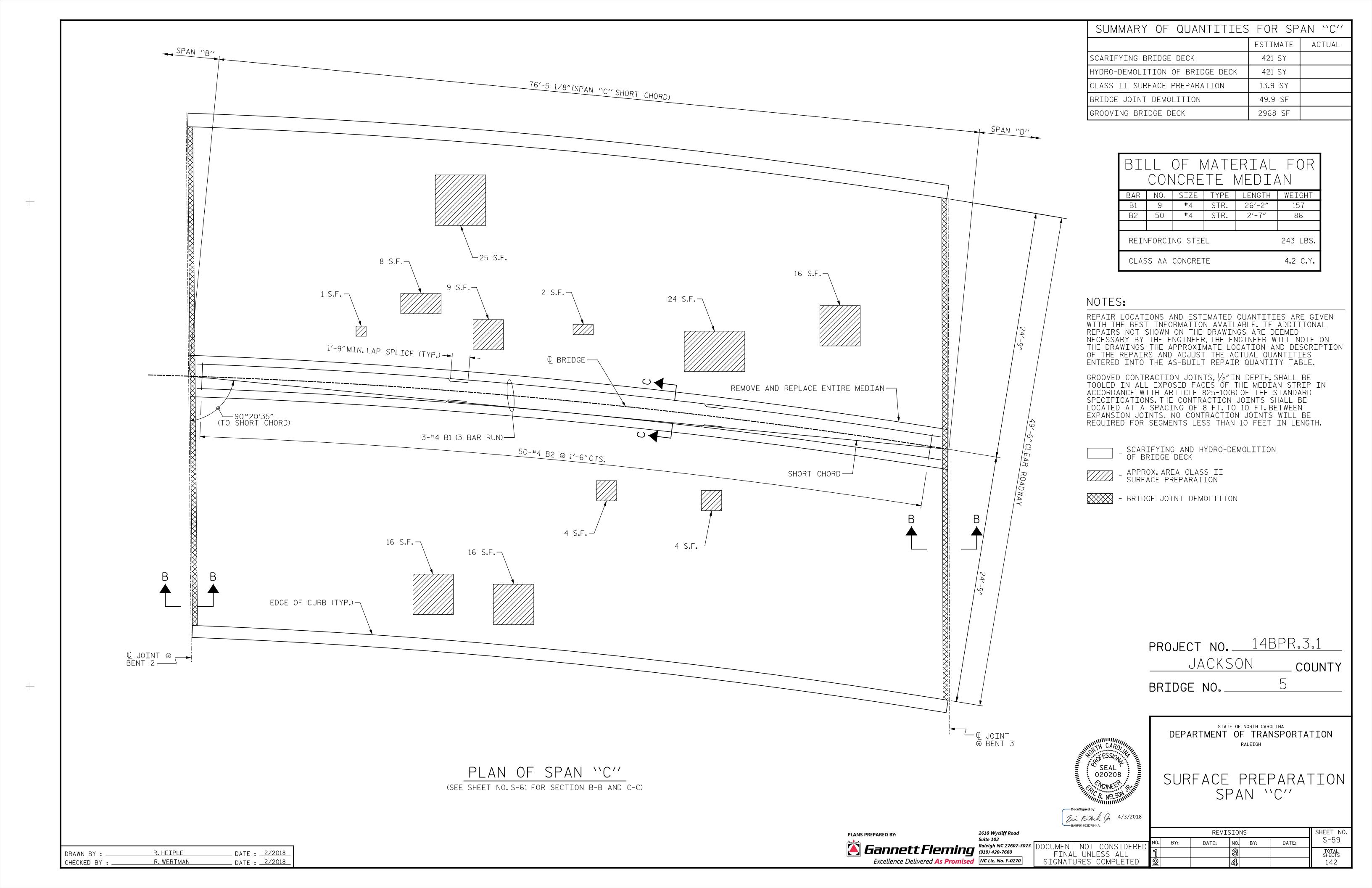
Cannett Fleming

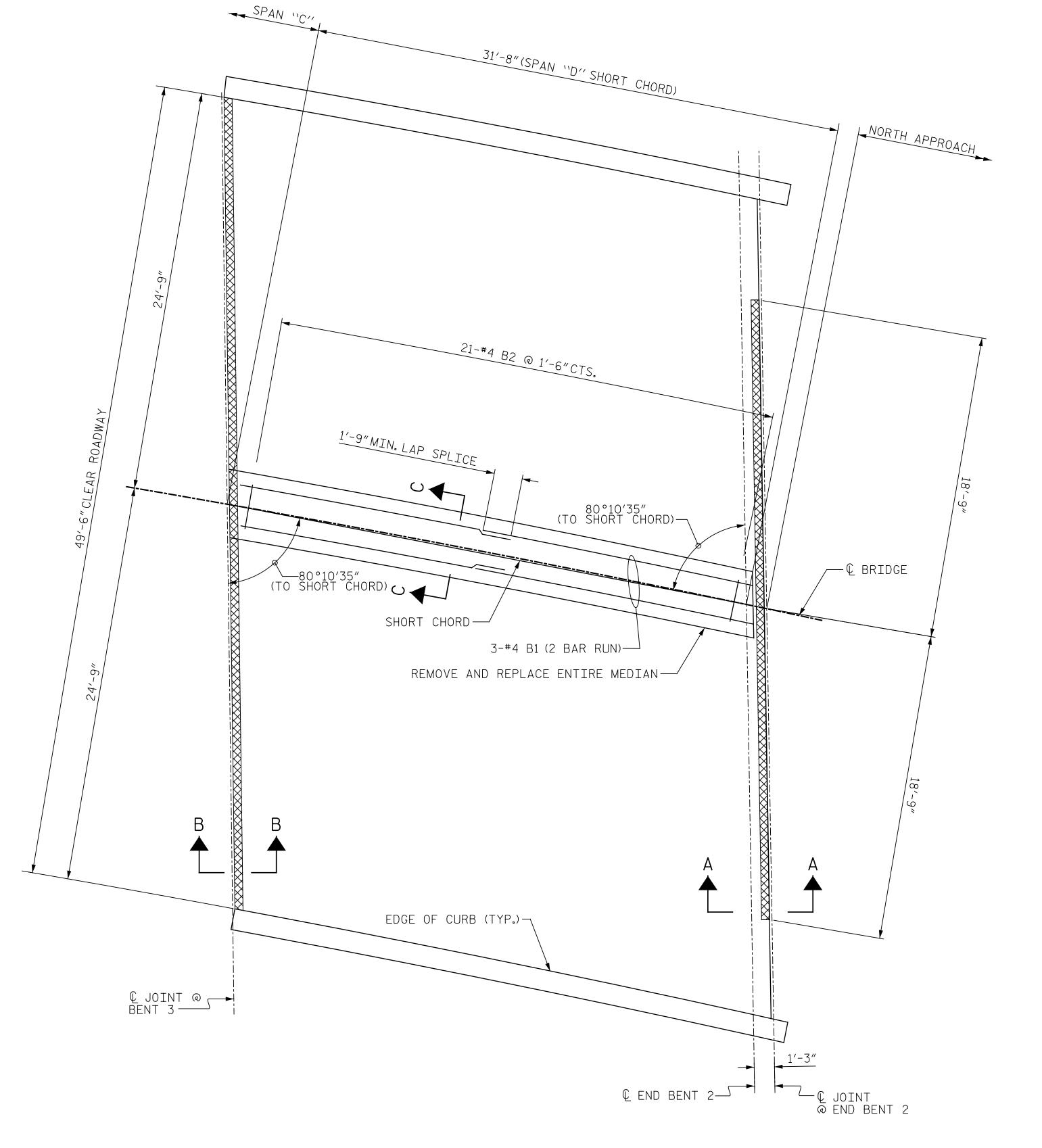
Excellence Delivered As Promised

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

NC Lic. No. F-0270 DOCUMENT NOT FINAL UNL SIGNATURES

044A							
REVISIONS					SHEET NO		
T CONSTDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-58
ILESS ALL	1			3			TOTAL SHEETS
COMPLETED	9			A			142





PLAN OF SPAN "D" (SEE SHEET NO.S-61 FOR SECTIONS A-A, B-B, AND C-C)

> Gannett Fleming
> Raleigh NC 27607-3073
> (919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

2610 Wycliff Road Suite 102

OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

Docusigned by:

Ein Brul J 4/3/2018

BA9F91762D7044A...

SEAL * 020208

SUMMARY OF QUANTITIES	FOR SP	AN ''D''
	ESTIMATE	ACTUAL
SCARIFYING BRIDGE DECK	182 SY	
HYDRO-DEMOLITION OF BRIDGE DECK	182 SY	
CLASS II SURFACE PREPARATION	-	
BRIDGE JOINT DEMOLITION	44.2 SF	
GROOVING BRIDGE DECK	1248 SF	

BILL OF MATERIAL FOR CONCRETE MEDIAN							
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT		
B1	6	#4	STR.	16′-7″	66		
B2	21	#4	STR.	2′-7″	36		
REINFORCING STEEL 102 LB							
CLASS AA CONCRETE 1.8 C.Y.							

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ " IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE MEDIAN STRIP IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINTS SHALL BE LOCATED AT A SPACING OF 8 FT. TO 10 FT. BETWEEN EXPANSION JOINTS. NO CONTRACTION JOINTS WILL BE REQUIRED FOR SEGMENTS LESS THAN 10 FEET IN LENGTH.

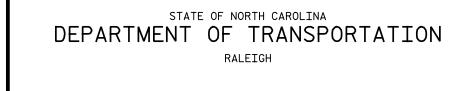
SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX. AREA CLASS II SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

NO DEFICIENCIES NOTED DURING FIELD SCOPING INSPECTION.
THE CONTRACTOR AND ENGINEER SHALL INSPECT THE DECK
SURFACE AFTER SCARFICATION FOR POTENTIAL CLASS II
REPAIRS.

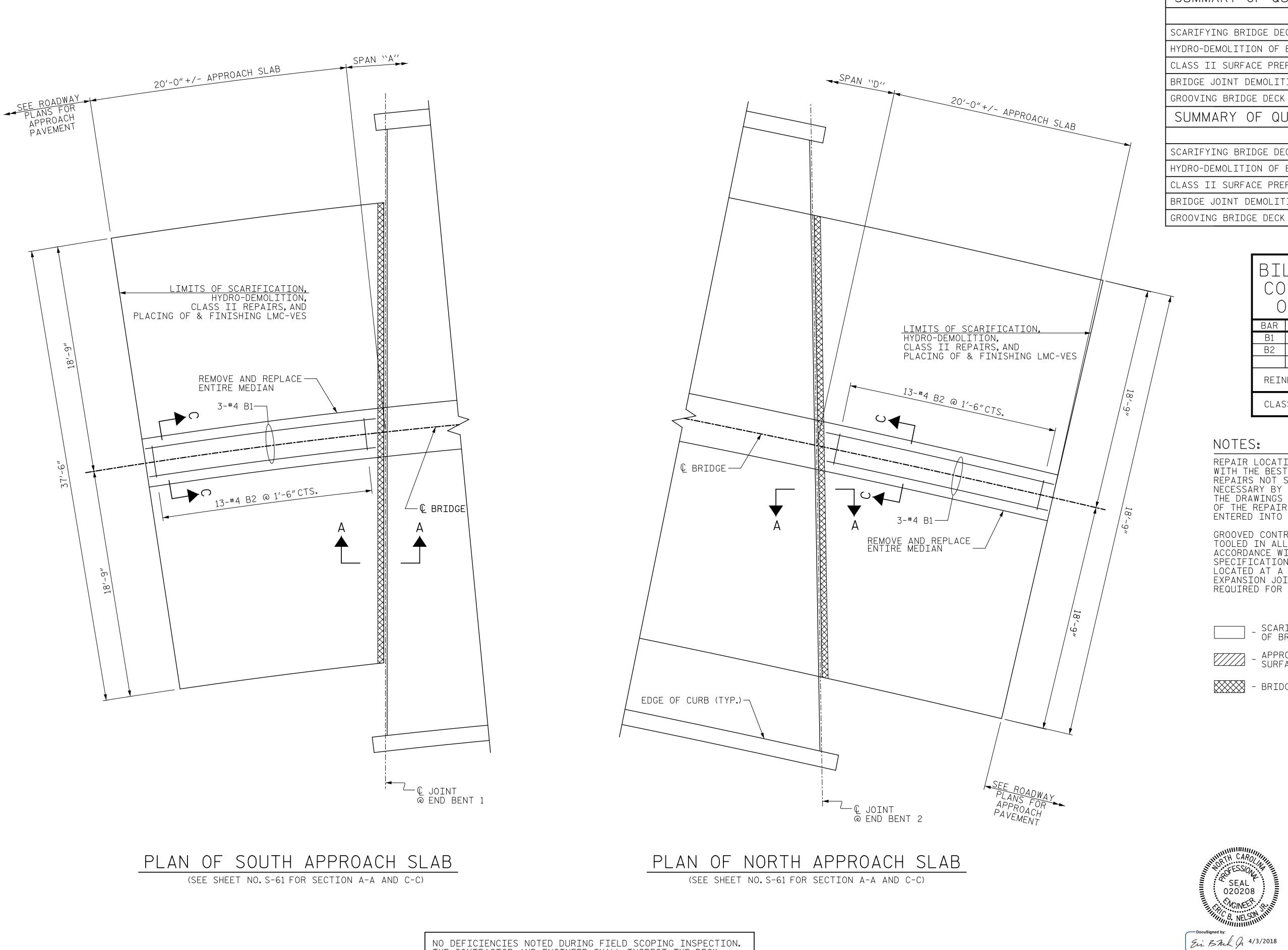
PROJECT NO. 14BPR.3.1 JACKSON COUNTY BRIDGE NO._



SURFACE PREPARATION SPAN "D"

					_
	SHEET NO.				
BY:	DATE:	NO.	BY:	DATE:	S-60
		3			TOTAL SHEETS
		A			142

__ DATE : <u>2/2018</u> __ DATE : <u>2/2018</u> R. HEIPLE DRAWN BY : ___ R. WERTMAN CHECKED BY : .



SUMMARY OF QUANTITIES FOR SOUTH APPROACH ESTIMATE ACTUAL SCARIFYING BRIDGE DECK 84 SY HYDRO-DEMOLITION OF BRIDGE DECK 84 SY CLASS II SURFACE PREPARATION 18.8 SF BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK 590 SF SUMMARY OF QUANTITIES FOR NORTH APPROACH ESTIMATE ACTUAL SCARIFYING BRIDGE DECK 84 SY HYDRO-DEMOLITION OF BRIDGE DECK 84 SY CLASS II SURFACE PREPARATION 19.0 SF BRIDGE JOINT DEMOLITION 590 SF

BILL OF MATERIAL FOR CONCRETE MEDIAN FOR ONE APPROACH SLAB BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT

B1	3	#4	STR.	18′-10″	38
B2	13	#4	STR.	2′-7″	22
REIN		60 LBS			
CLAS		1.1 C.Y.			

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ " IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE MEDIAN STRIP IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINTS SHALL BE LOCATED AT A SPACING OF 8 FT. TO 10 FT. BETWEEN EXPANSION JOINTS. NO CONTRACTION JOINTS WILL BE REQUIRED FOR SEGMENTS LESS THAN 10 FEET IN LENGTH.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

- BRIDGE JOINT DEMOLITION

APPROX.AREA CLASS II SURFACE PREPARATION

PROJECT NO. 14BPR.3.1 JACKSON COUNTY BRIDGE NO._



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION APPROACH SLABS

FINAL SIGNATU

2610 Wycliff Road

Gannett Fleming
Raleigh NC 27607-3073
[919] 420-7660

Excellence Delivered As Promised NC Lic. No. F-0270

- DA9F91/02D/044A						_	_
			SHEET NO.				
T NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-61
AL UNLESS ALL	1			3			TOTAL SHEETS
TURES COMPLETED	2			4			142

NO DEFICIENCIES NOTED DURING FIELD SCOPING INSPECTION.
THE CONTRACTOR AND ENGINEER SHALL INSPECT THE DECK
SURFACE AFTER SCARFICATION FOR POTENTIAL CLASS II

REPAIRS.

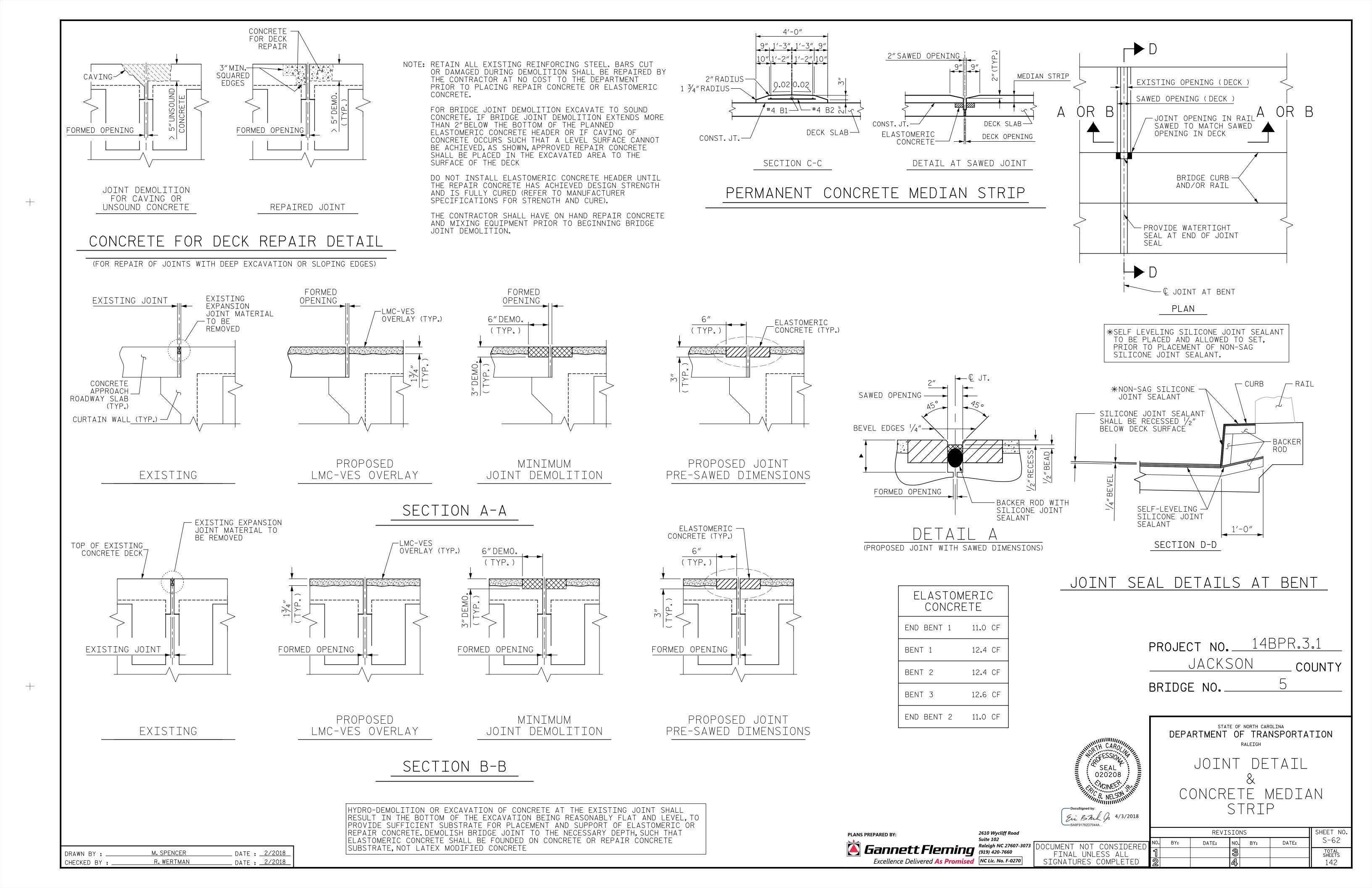
R.FISHER

R. WERTMAN

DRAWN BY : ___

_ DATE : <u>2/2018</u>

_ DATE : <u>2/2018</u>



	PAVEMENT SCHEDULE
C1	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 11/2" IN DEPTH.
R1	5" MONOLITHIC CONCRETE ISLAND
U	EXISTING PAVEMENT
Z	ASPHALT MILLING TO 1½" DEPTH.

A.B.PRIDGEN

E. NELSON

CHECKED BY : __

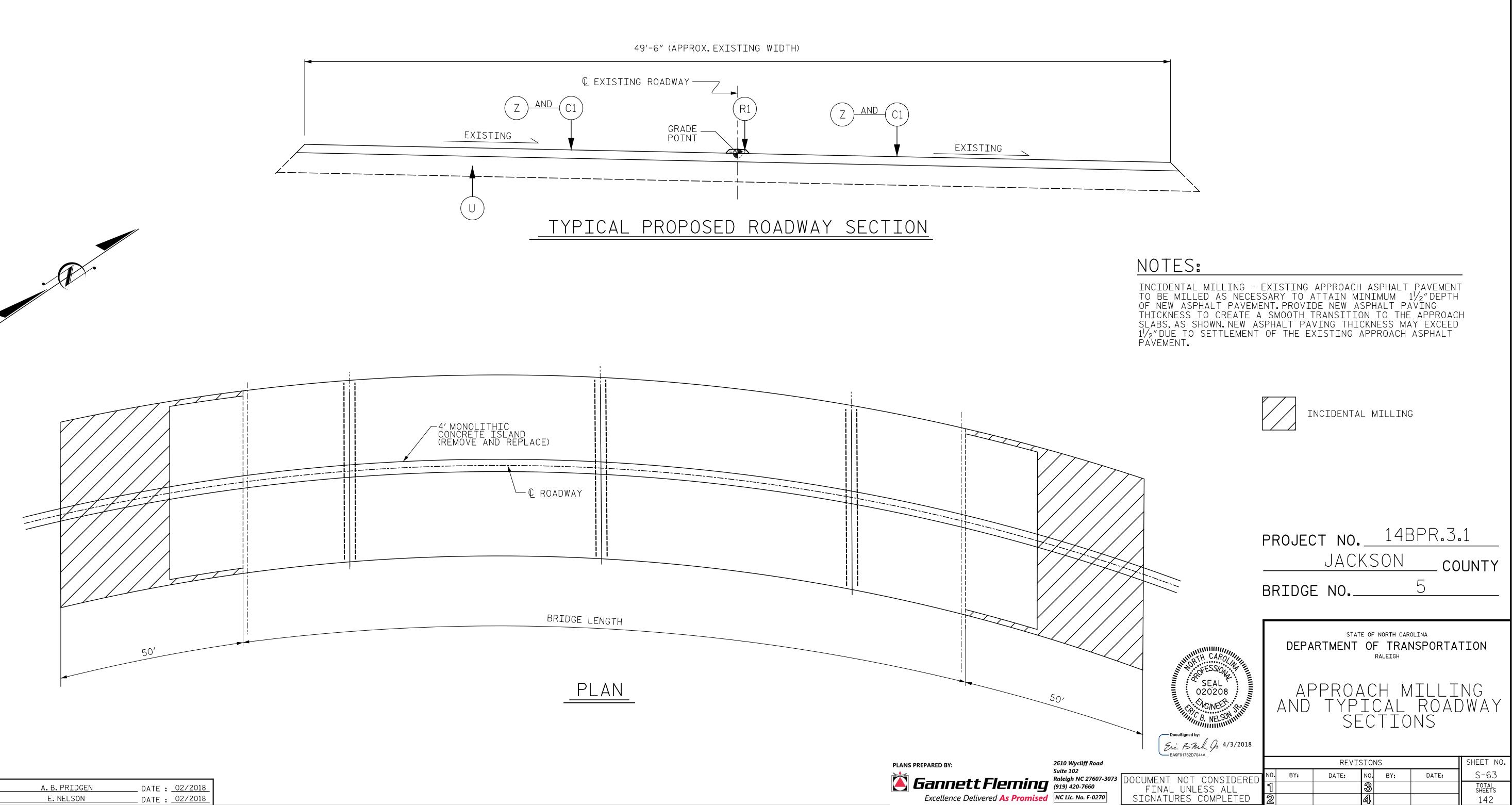
_ DATE : <u>02/2018</u>

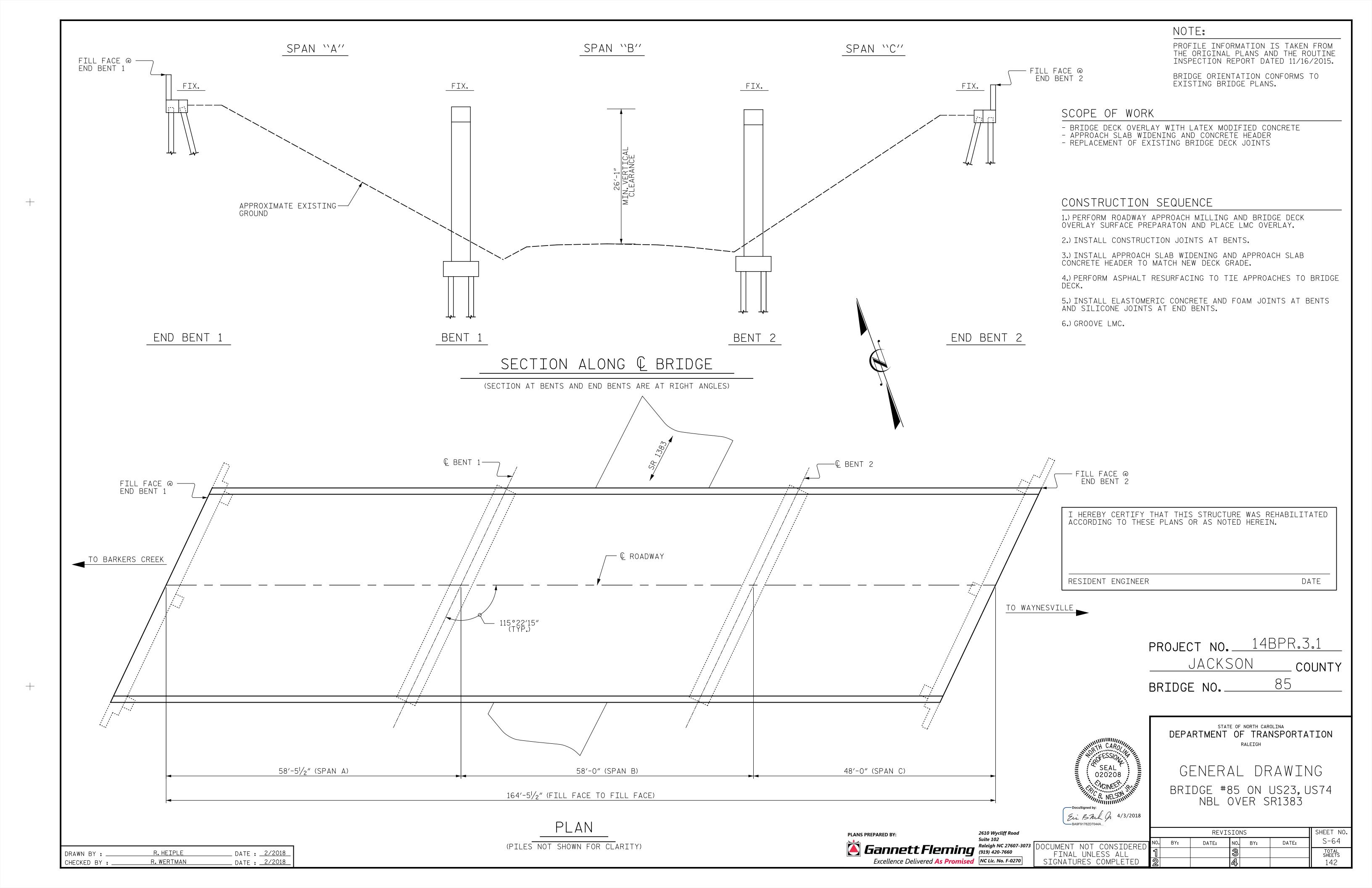
_ DATE : <u>02/2018</u>

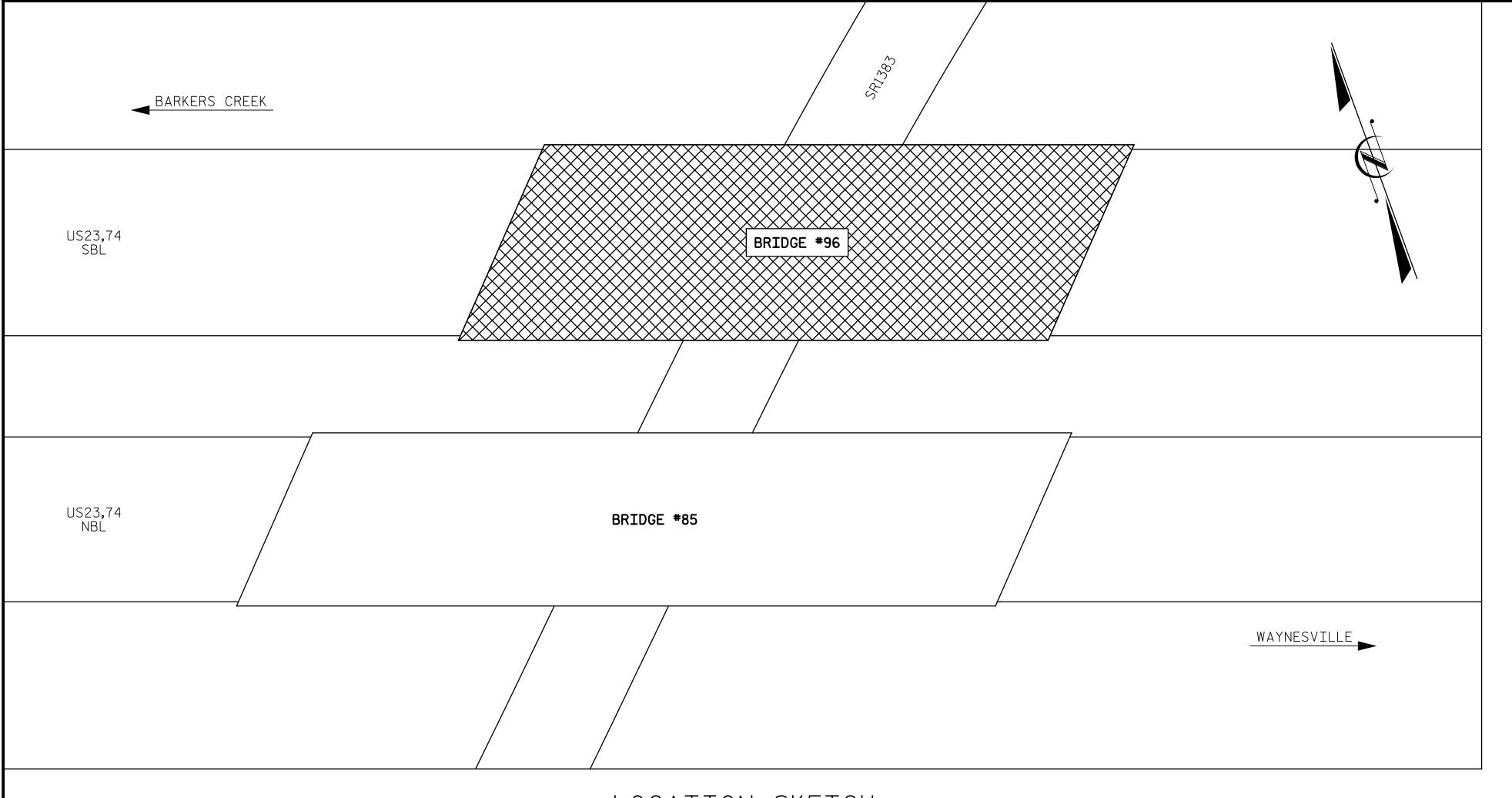
SUMMARY OF QUANTITIES					
	ESTIMATE	ACTUAL			
INCIDENTAL MILLING	384 SQ. YDS.	ACTUAL			
ASPHALT CONCRETE SURFACE	33 TONS				
COURSE, TYPE S9.5B ASPHALT BINDER FOR PLANT MIX	2 TONS				

DATE:

OOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED







LOCATION SKETCH

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

M. SPENCER

R. WERTMAN

DRAWN BY : ___

CHECKED BY : .

_ DATE : <u>2/2018</u>

_ DATE : <u>2/2018</u>

GENERAL 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.

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

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

ROADWAY MILLING IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN FOR MILLING AND RESURFACING ARE APPROXIMATE. MILL AND RESURFACE AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG LANE LINES OR EDGE LINES UNLESS OTHERWISE NOTED ON THE PLANS.

THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THRU OF THE DECK DURING HYDRO-DEMOLITION.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO AND DURING REPAIR OF BRIDGE DECKS. WHEN RAIN IS PREDICTED BETWEEN WORK PERIODS THE CONTRACTOR SHALL REMOVE DECK DRAIN SEAL DEVICES. REINSTALL DECK DRAIN DEVICES PRIOR TO RESUMING DECK REPAIR ACTIVITIES.

DURING CONSTRUCTION, BERMS OR APPROPRIATE MEASURES SHALL BE USED TO CONTROL RUN-OFF OF HYDRO DEMOLITION WATER FROM FLOWING ACROSS TRAVEL LANES.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR SCARIFYING BRIDGE DECK, HYDRO-DEMOLITION OF BRIDGE DECK, AND CLASS II SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

FOR OVERLAY OF BRIDGE DECK WITH LATEX MODIFIED CONCRETE, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR SILICONE JOINT SEALANT, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

> PROJECT NO. 14BPR.3.1 JACKSON COUNTY 85 BRIDGE NO.__



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING BRIDGE #85 ON US23, US74 NBL OVER SR1383

SHEET NO

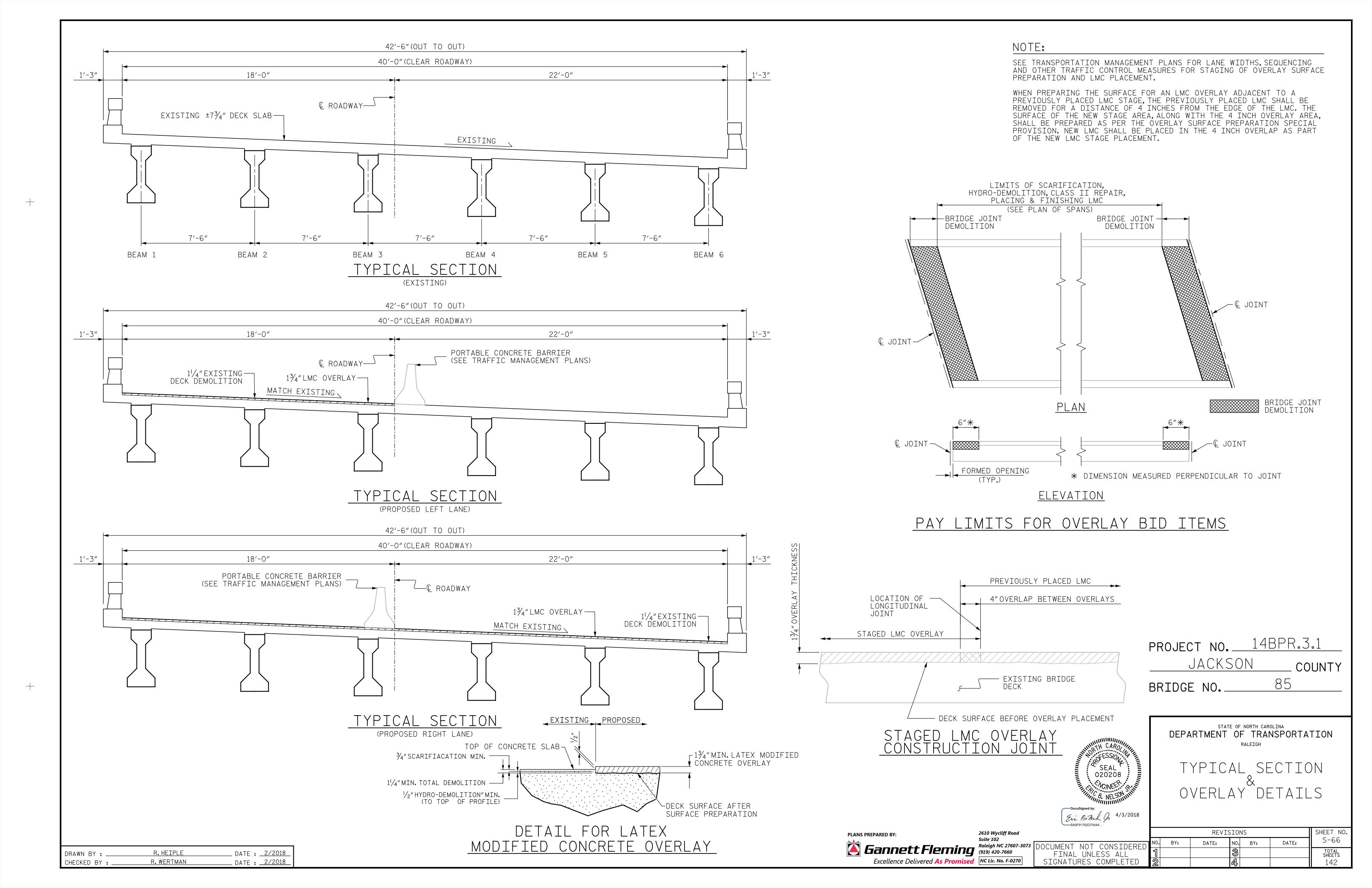
S-65

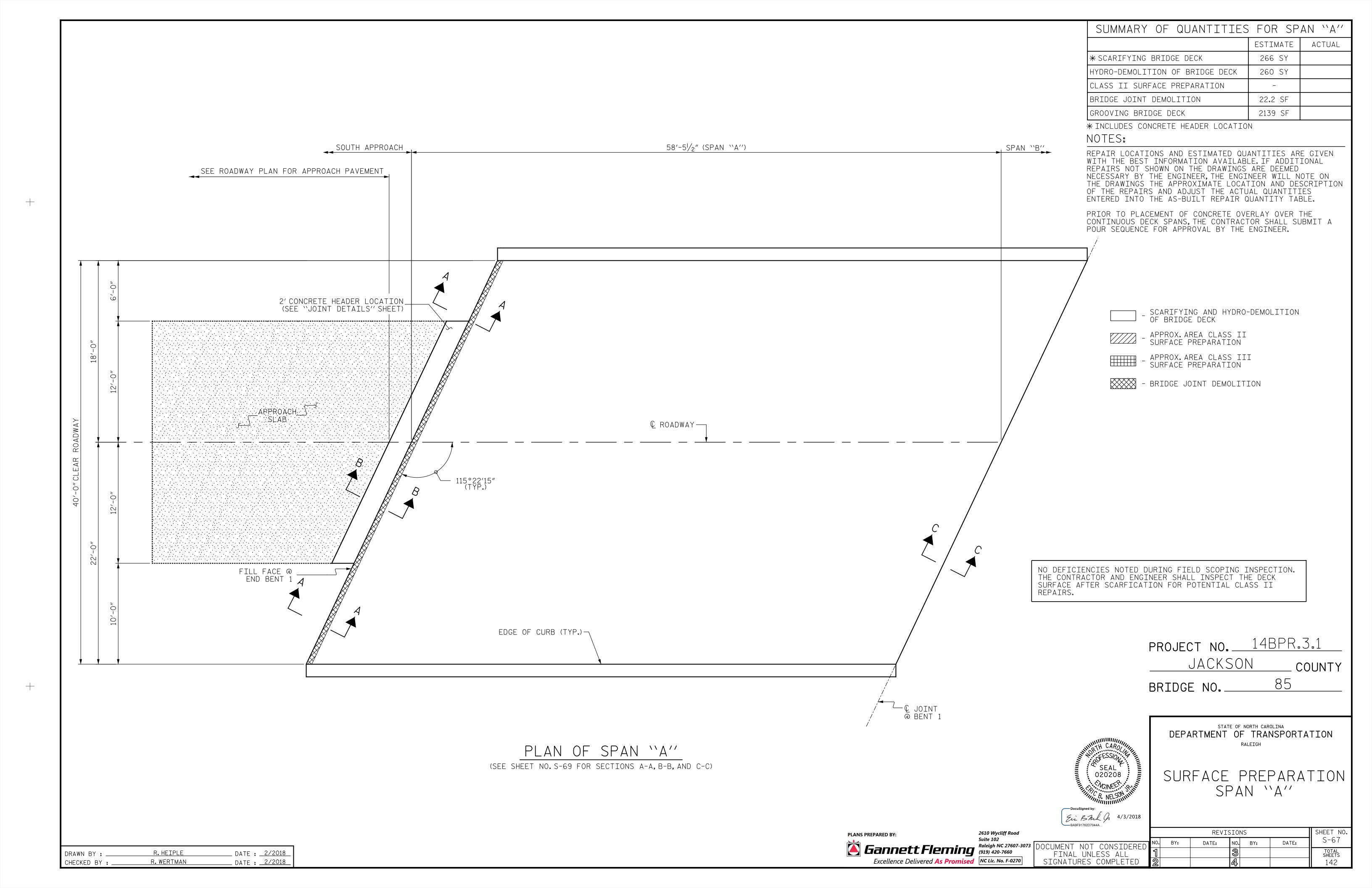
TOTAL SHEETS

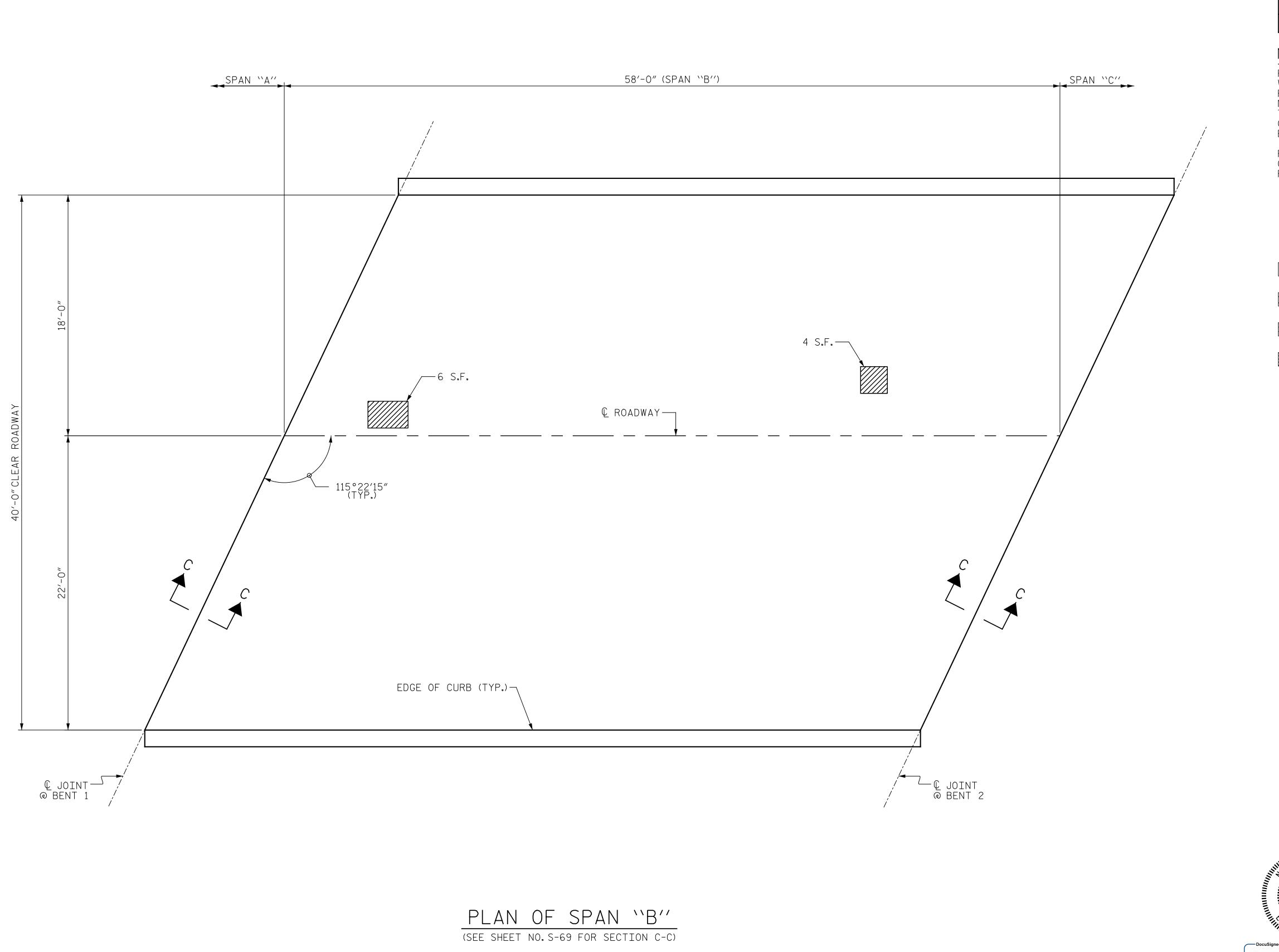
REVISIONS NO. BY: DATE: OCUMENT NOT CONSIDERE FINAL UNLESS ALL SIGNATURES COMPLETED BY:

Gannett Fleming

Raleigh NC 27607-3073
(919) 420-7660







R.HEIPLE R.WERTMAN

DRAWN BY : ___

DATE: 2/2018
DATE: 2/2018

SUMMARY OF QUANTITIES	FOR SP	AN ''B''
	ESTIMATE	ACTUAL
SCARIFYING BRIDGE DECK	258 SY	
HYDRO-DEMOLITION OF BRIDGE DECK	258 SY	
CLASS II SURFACE PREPARATION	1.2 SY	
BRIDGE JOINT DEMOLITION	-	
GROOVING BRIDGE DECK	2134 SF	

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PRIOR TO PLACEMENT OF CONCRETE OVERLAY OVER THE CONTINUOUS DECK SPANS, THE CONTRACTOR SHALL SUBMIT A POUR SEQUENCE FOR APPROVAL BY THE ENGINEER.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX.AREA CLASS II SURFACE PREPARATION

APPROX.AREA CLASS III

SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY 85 BRIDGE NO.___



PLANS PREPARED BY:

Cannett Fleming

Excellence Delivered As Promised

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

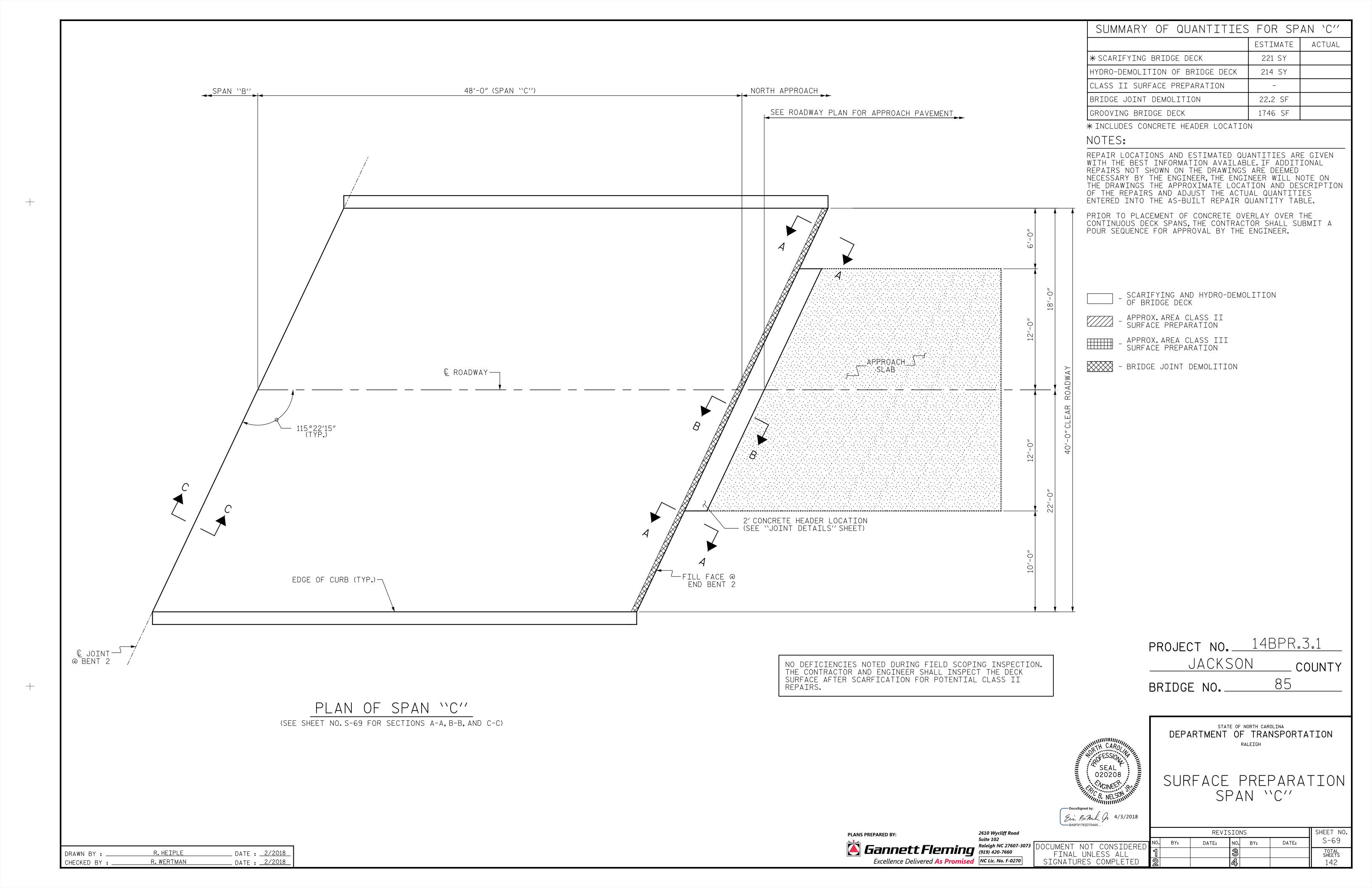
NC Lic. No. F-0270

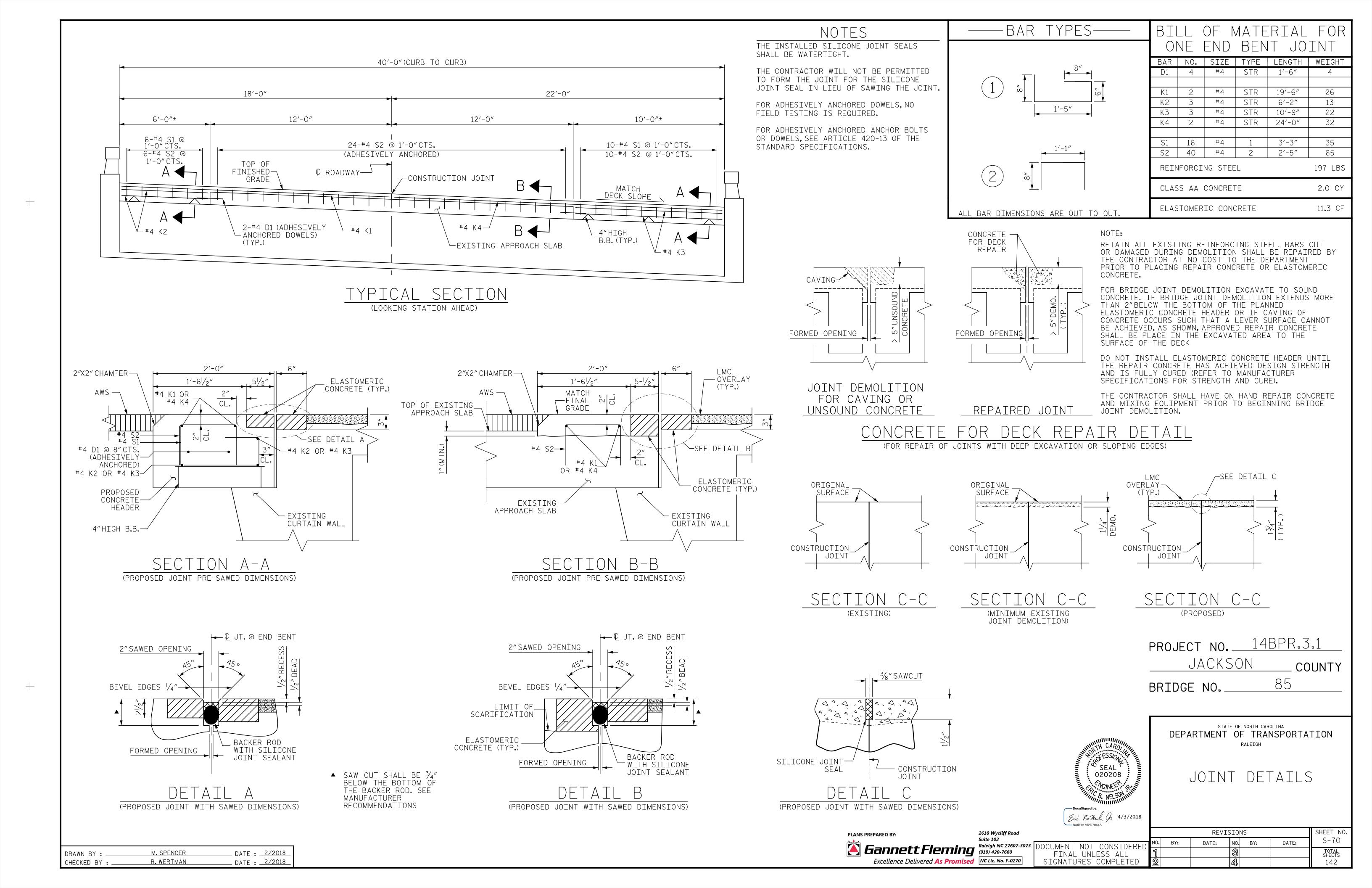
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION SPAN 'B''

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

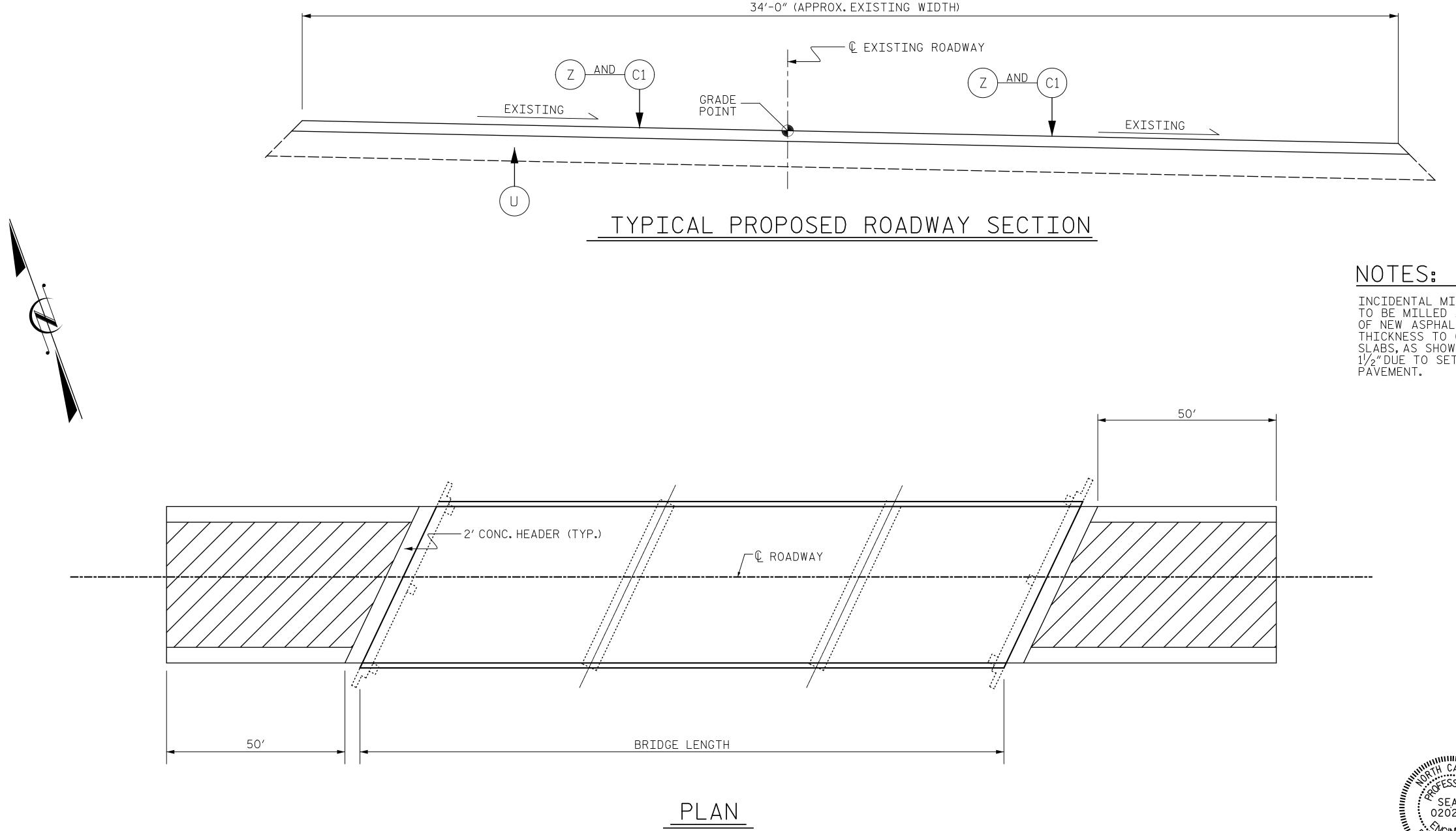
-							
			SHEET NO.				
ONSTDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-68
SS ALL	1			3			TOTAL SHEETS
OMPLETED	9			И			1/12





	PAVEMENT SCHEDULE							
C1	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ, YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.							
U	EXISTING PAVEMENT							
Z	ASPHALT MILLING TO 1½" DEPTH.							

SUMMARY OF QUANTITIES					
	ESTIMATE	ACTUAL			
INCIDENTAL MILLING	439 SQ. YDS.				
ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C	37 TONS				
ASPHALT BINDER FOR PLANT MIX	2.5 TONS				



INCIDENTAL MILLING - EXISTING APPROACH ASPHALT PAVEMENT TO BE MILLED AS NECESSARY TO ATTAIN MINIMUM 11/2" DEPTH OF NEW ASPHALT PAVEMENT. PROVIDE NEW ASPHALT PAVING THICKNESS TO CREATE A SMOOTH TRANSITION TO THE APPROACH SLABS, AS SHOWN. NEW ASPHALT PAVING THICKNESS MAY EXCEED 11/2" DUE TO SETTLEMENT OF THE EXISTING APPROACH ASPHALT

INCIDENTAL MILLING

PROJECT NO. 14BPR.3.1 JACKSON COUNTY

BRIDGE NO. 85

Docusigned by:

Ein BML 9 4/3/2018

BA9F91762D7044A...

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

APPROACH MILLING AND TYPICAL ROADWAY SECTIONS

PLANS PREPARED BY:

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

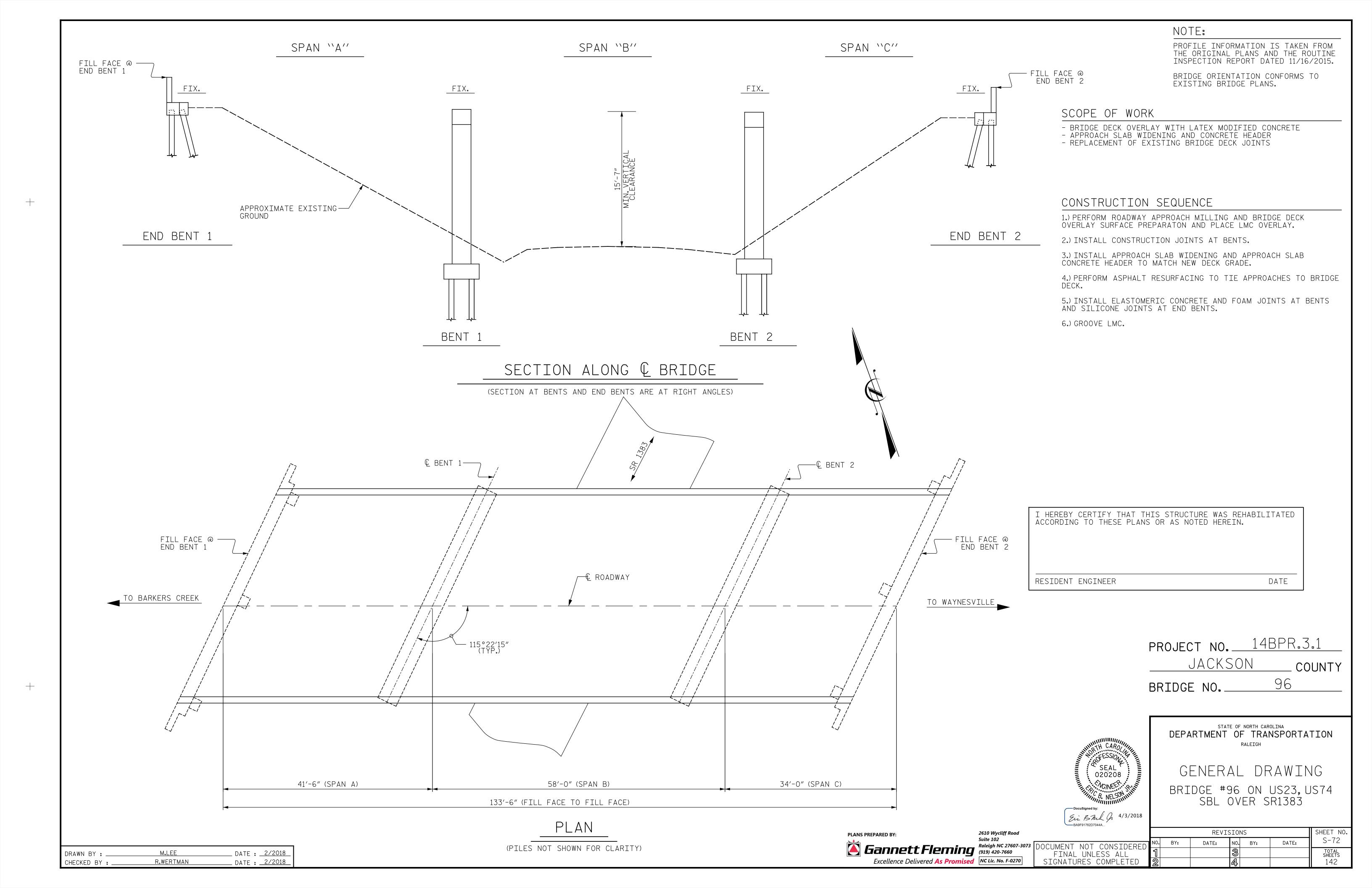
Excellence Delivered As Promised

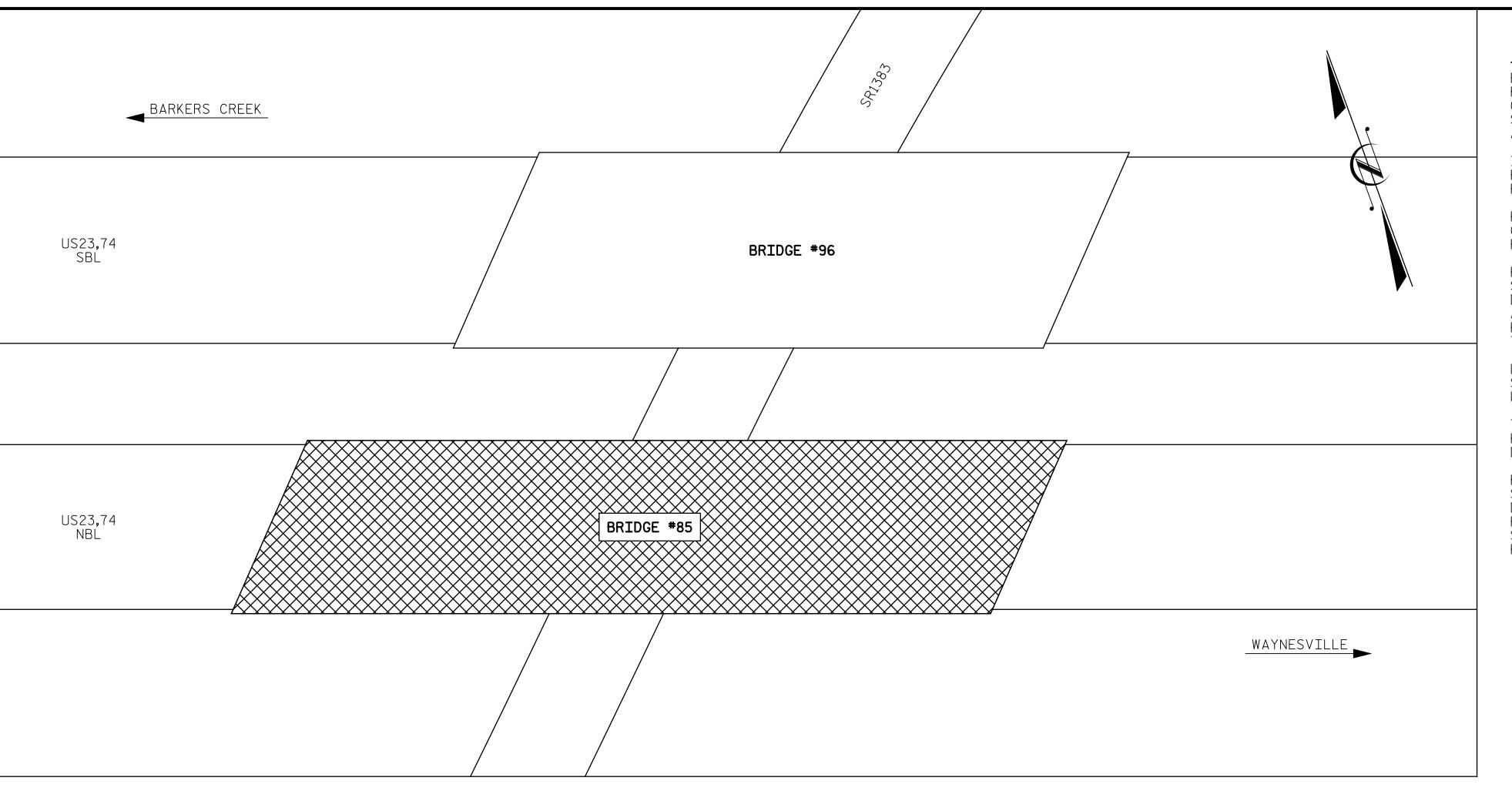
NC Lic. No. F-0270

OOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS DATE: S-71 DATE:

A.B.PRIDGEN _ DATE : <u>02/2018</u> E. NELSON _ DATE : <u>02/2018</u> CHECKED BY : ___





LOCATION SKETCH

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

GENERAL 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.

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

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

ROADWAY MILLING IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN FOR MILLING AND RESURFACING ARE APPROXIMATE. MILL AND RESURFACE AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG LANE LINES OR EDGE LINES UNLESS OTHERWISE NOTED ON THE PLANS.

THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THRU OF THE DECK DURING HYDRO-DEMOLITION.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO AND DURING REPAIR OF BRIDGE DECKS. WHEN RAIN IS PREDICTED BETWEEN WORK PERIODS THE CONTRACTOR SHALL REMOVE DECK DRAIN SEAL DEVICES. REINSTALL DECK DRAIN DEVICES PRIOR TO RESUMING DECK REPAIR ACTIVITIES.

DURING CONSTRUCTION, BERMS OR APPROPRIATE MEASURES SHALL BE USED TO CONTROL RUN-OFF OF HYDRO DEMOLITION WATER FROM FLOWING ACROSS TRAVEL LANES.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR SCARIFYING BRIDGE DECK, HYDRO-DEMOLITION OF BRIDGE DECK, AND CLASS II SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

FOR OVERLAY OF BRIDGE DECK WITH LATEX MODIFIED CONCRETE, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

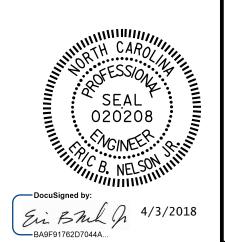
FOR SILICONE JOINT SEALANT, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

> PROJECT NO. 14BPR.3.1 JACKSON COUNTY 96 BRIDGE NO._



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING BRIDGE #96 ON US23, US74 SBL OVER SR1383

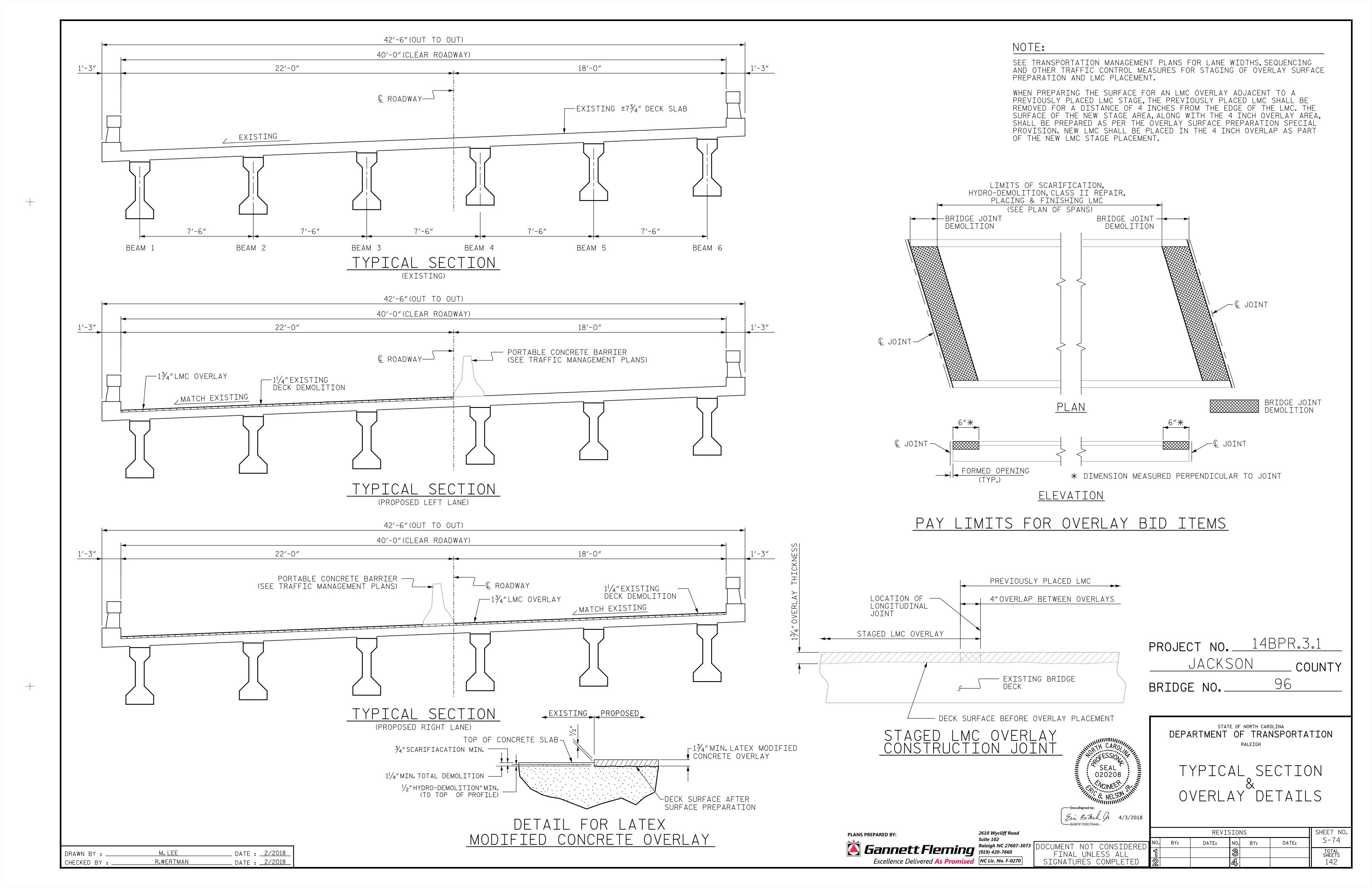
Gannett Fleming

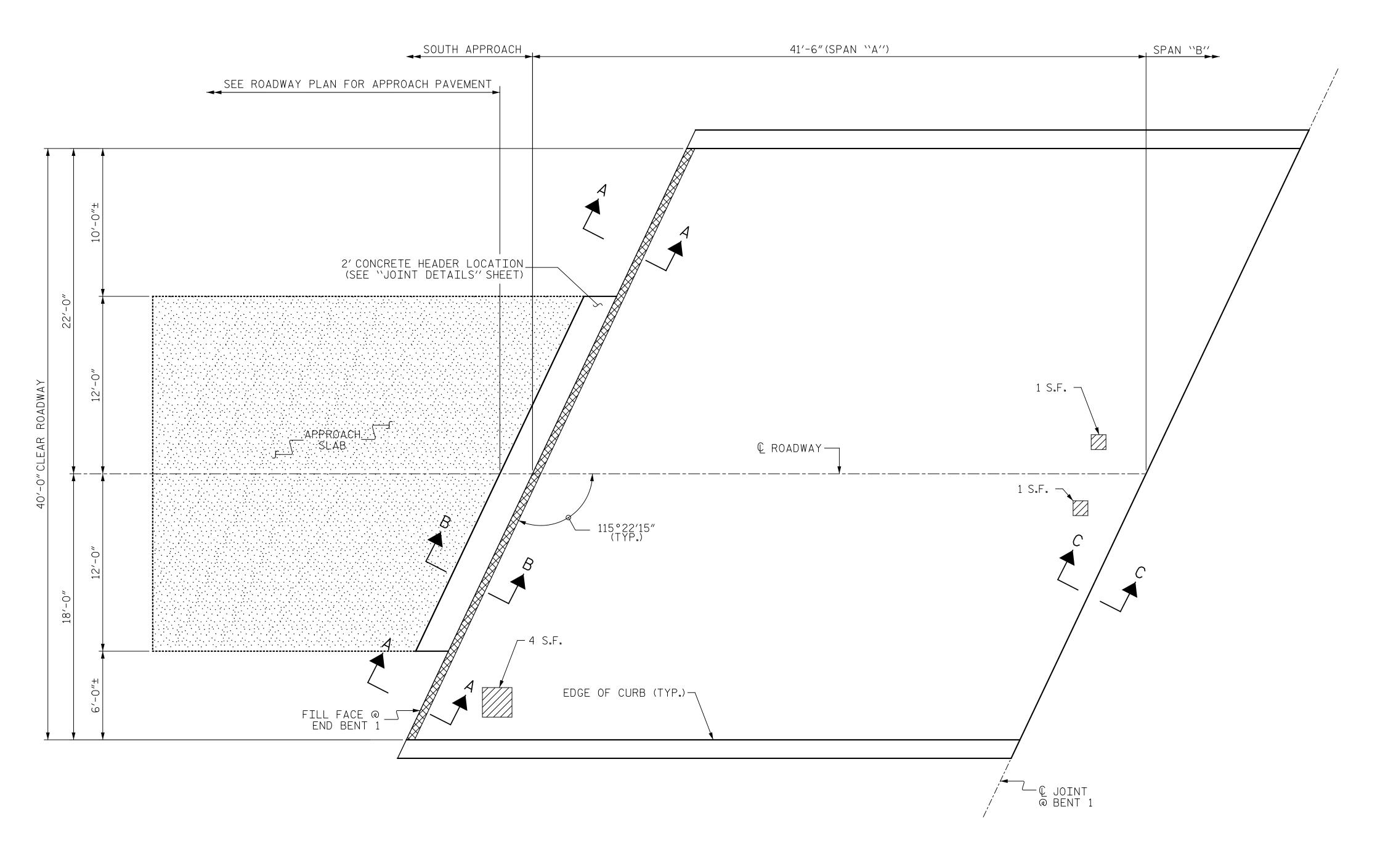
Raleigh NC 27607-307
(919) 420-7660

OCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

					_	
	SHEET NO.					
NO.	BY:	DATE:	NO.	BY:	DATE:	S-73
1			3			TOTAL SHEETS
2			4			142

M. SPENCER _ DATE : <u>1/2018</u> DRAWN BY : ___ _ DATE : <u>2/2018</u> R.WERTMAN CHECKED BY:





ESTIMATE ACTUAL * SCARIFYING BRIDGE DECK 192 SY 186 SY HYDRO-DEMOLITION OF BRIDGE DECK 0.7 SY CLASS II SURFACE PREPARATION 22**.**2 SF BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK 1505 SF * INCLUDES CONCRETE HEADER LOCATION

SUMMARY OF QUANTITIES FOR SPAN "A"

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PRIOR TO PLACEMENT OF CONCRETE OVERLAY OVER THE CONTINUOUS DECK SPANS, THE CONTRACTOR SHALL SUBMIT A POUR SEQUENCE FOR APPROVAL BY THE ENGINEER.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX.AREA CLASS II SURFACE PREPARATION

APPROX.AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY 96 BRIDGE NO._

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION SPAN "A"

> SHEET NO. S-75

PLANS PREPARED BY:

Cannett Fleming

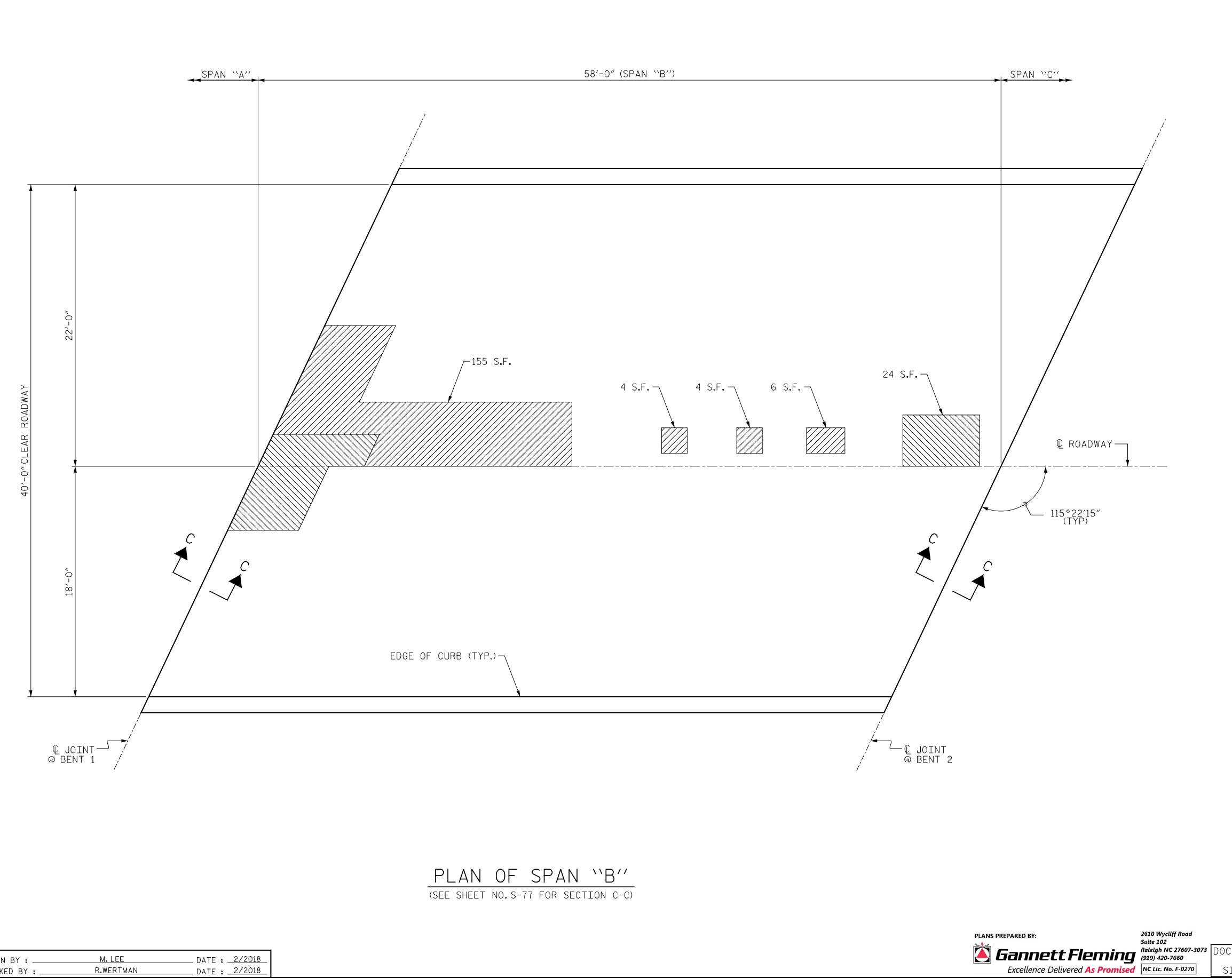
Excellence Delivered As Promised

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660
FINAL
SIGNATUL

			REVI:	SIO	NS	
T NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:
AL UNLESS ALL	1			3		
URES COMPLETED	2			4		

PLAN OF SPAN "A" (SEE SHEET NO.S-77 FOR SECTIONS A-A, B-B, AND C-C)

DATE : 2/2018
DATE : 2/2018 M. LEE DRAWN BY : ___ R.WERTMAN



DATE : 2/2018
DATE : 2/2018

M. LEE

R.WERTMAN

DRAWN BY : ___

SUMMARY OF QUANTITIES FOR SPAN "B" ESTIMATE ACTUAL SCARIFYING BRIDGE DECK 258 SY 258 SY HYDRO-DEMOLITION OF BRIDGE DECK CLASS II SURFACE PREPARATION 21**.**5 SY BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK 2134 SF

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PRIOR TO PLACEMENT OF CONCRETE OVERLAY OVER THE CONTINUOUS DECK SPANS, THE CONTRACTOR SHALL SUBMIT A POUR SEQUENCE FOR APPROVAL BY THE ENGINEER.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX. AREA CLASS II SURFACE PREPARATION

APPROX. AREA CLASS II WITH POTENTIAL BLOW THROUGH

_ APPROX.AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY 96 BRIDGE NO.___

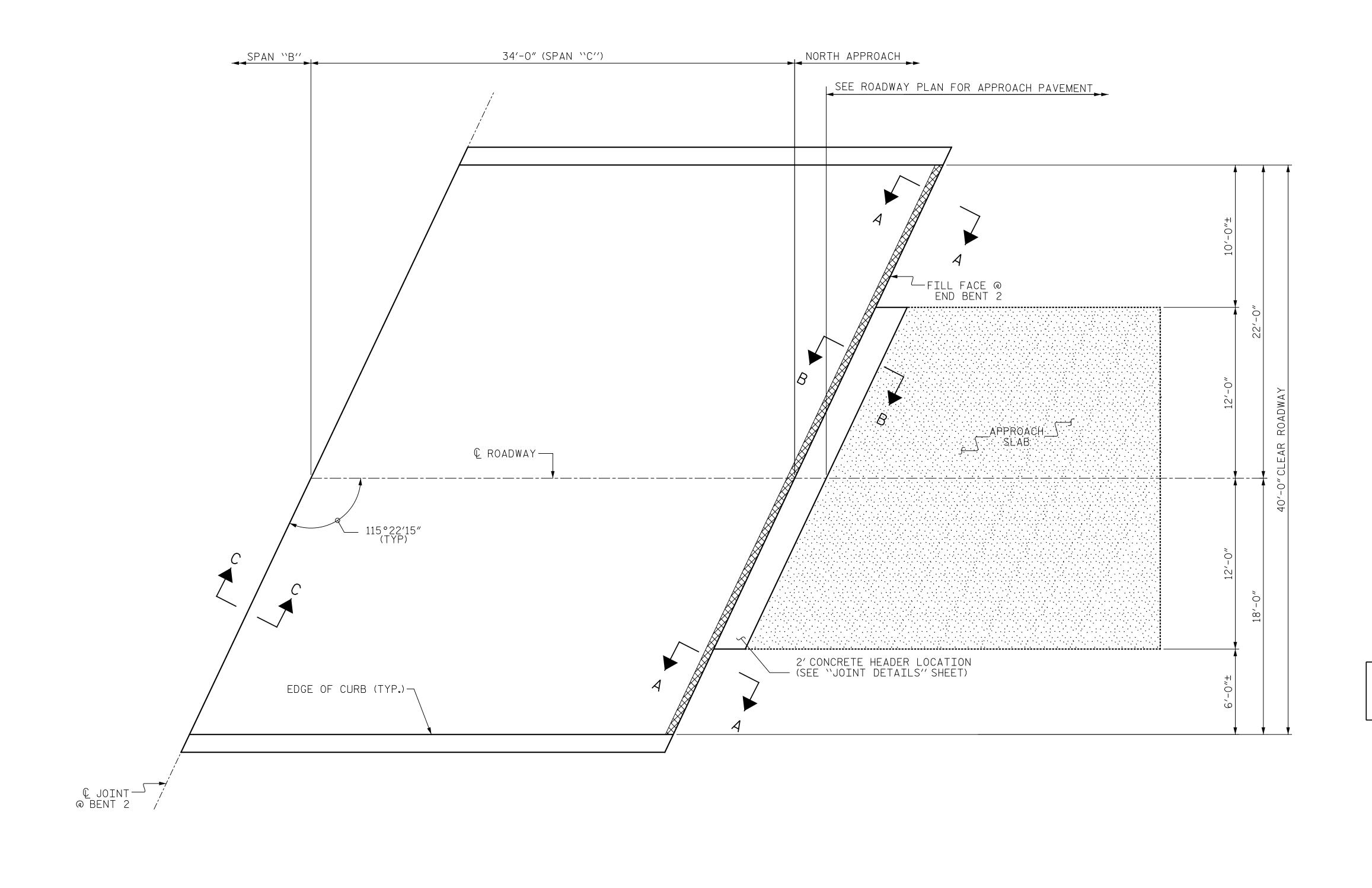


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION SPAN 'B''

OCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

		SHEET NO					
\Box	NO.	BY:	DATE:	NO.	BY:	DATE:	S-76
	1			3			TOTAL SHEETS
	2			4			142



PLAN OF SPAN "C" (SEE SHEET NO.S-77 FOR SECTION A-A, B-B, AND C-C)

M. LEE

R.WERTMAN

DRAWN BY : ___

CHECKED BY : .

__ DATE : <u>2/2018</u>

_ DATE : _ 2/2018

Gannett Fleming

Raleigh NC 27607-3073
(919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

2610 Wycliff Road Suite 102

OCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Ein BML / 4/3/2018
BA9F91762D7044A... SHEET NO. REVISIONS S-77 NO. BY: DATE: DATE: TOTAL SHEETS

* SCARIFYING BRIDGE DECK 158 SY HYDRO-DEMOLITION OF BRIDGE DECK 152 SY CLASS II SURFACE PREPARATION 22**.**2 SF BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK

SUMMARY OF QUANTITIES FOR SPAN 'C'

ESTIMATE

1228 SF

ACTUAL

* INCLUDES CONCRETE HEADER LOCATION

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PRIOR TO PLACEMENT OF CONCRETE OVERLAY OVER THE CONTINUOUS DECK SPANS, THE CONTRACTOR SHALL SUBMIT A POUR SEQUENCE FOR APPROVAL BY THE ENGINEER.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX. AREA CLASS II SURFACE PREPARATION

APPROX. AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

NO DEFICIENCIES NOTED DURING FIELD SCOPING INSPECTION. THE CONTRACTOR AND ENGINEER SHALL INSPECT THE DECK SURFACE AFTER SCARFICATION FOR POTENTIAL CLASS II REPAIRS.

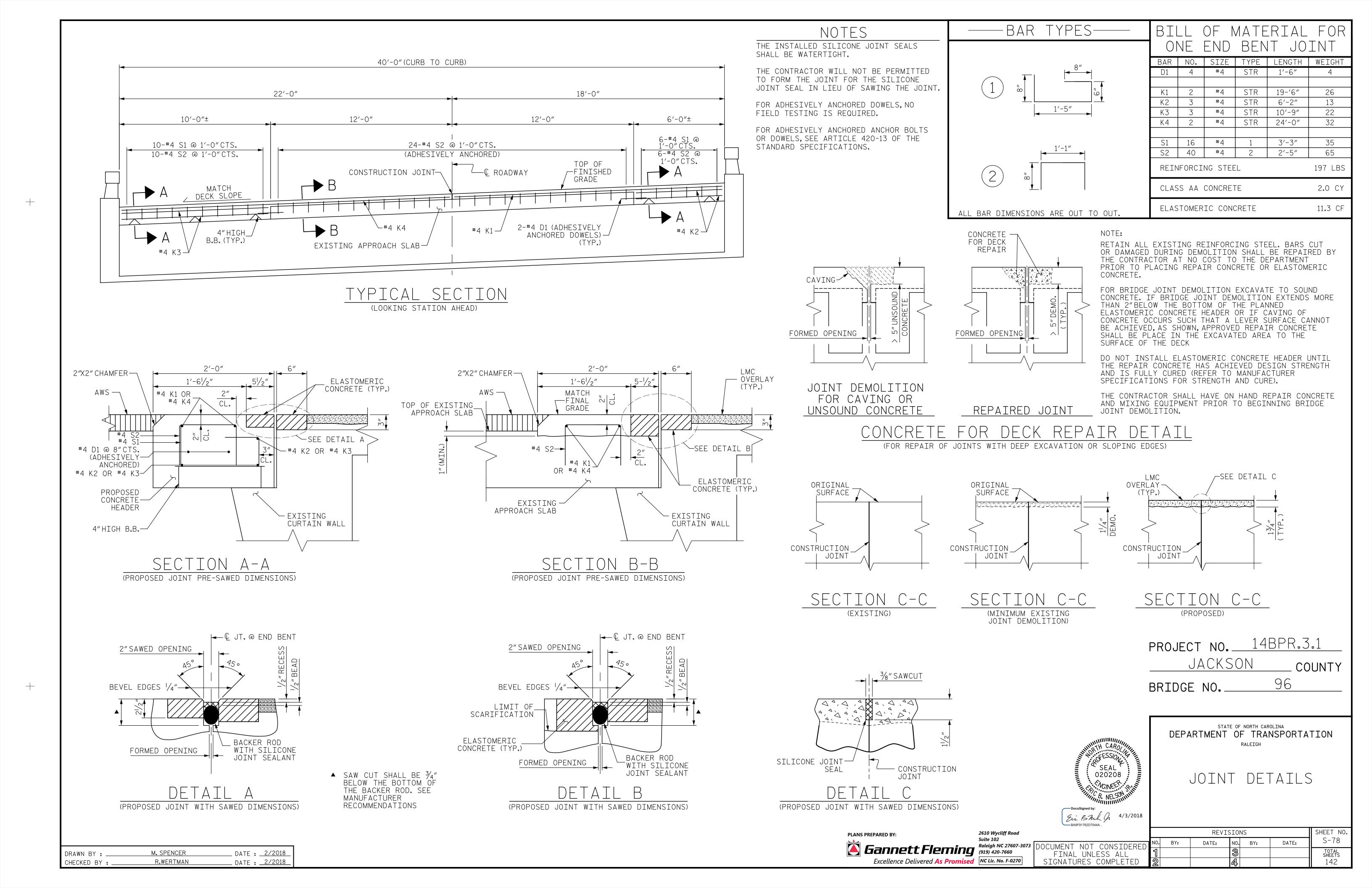
PROJECT NO. 14BPR.3.1 JACKSON COUNTY 96 BRIDGE NO._

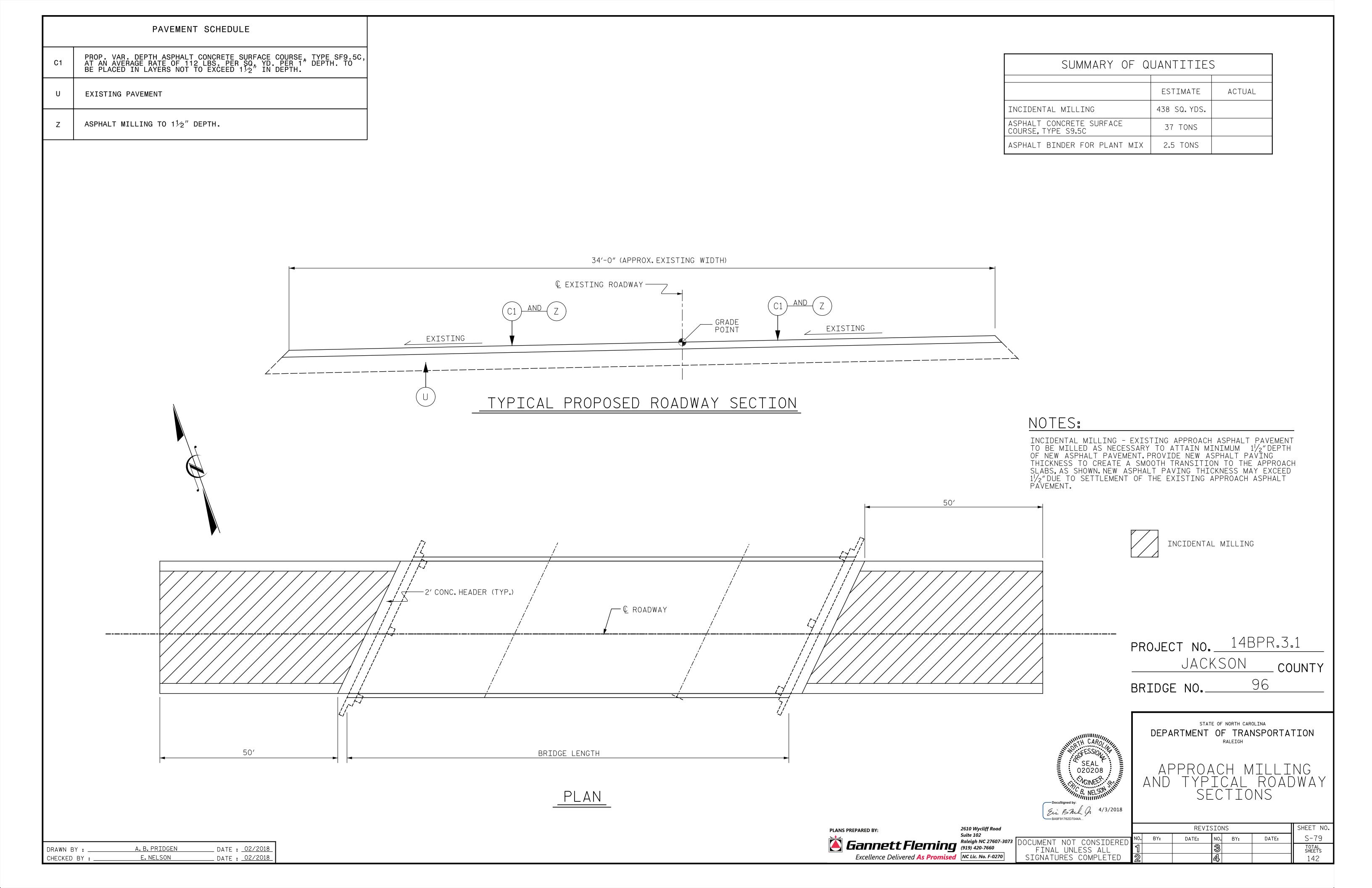
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

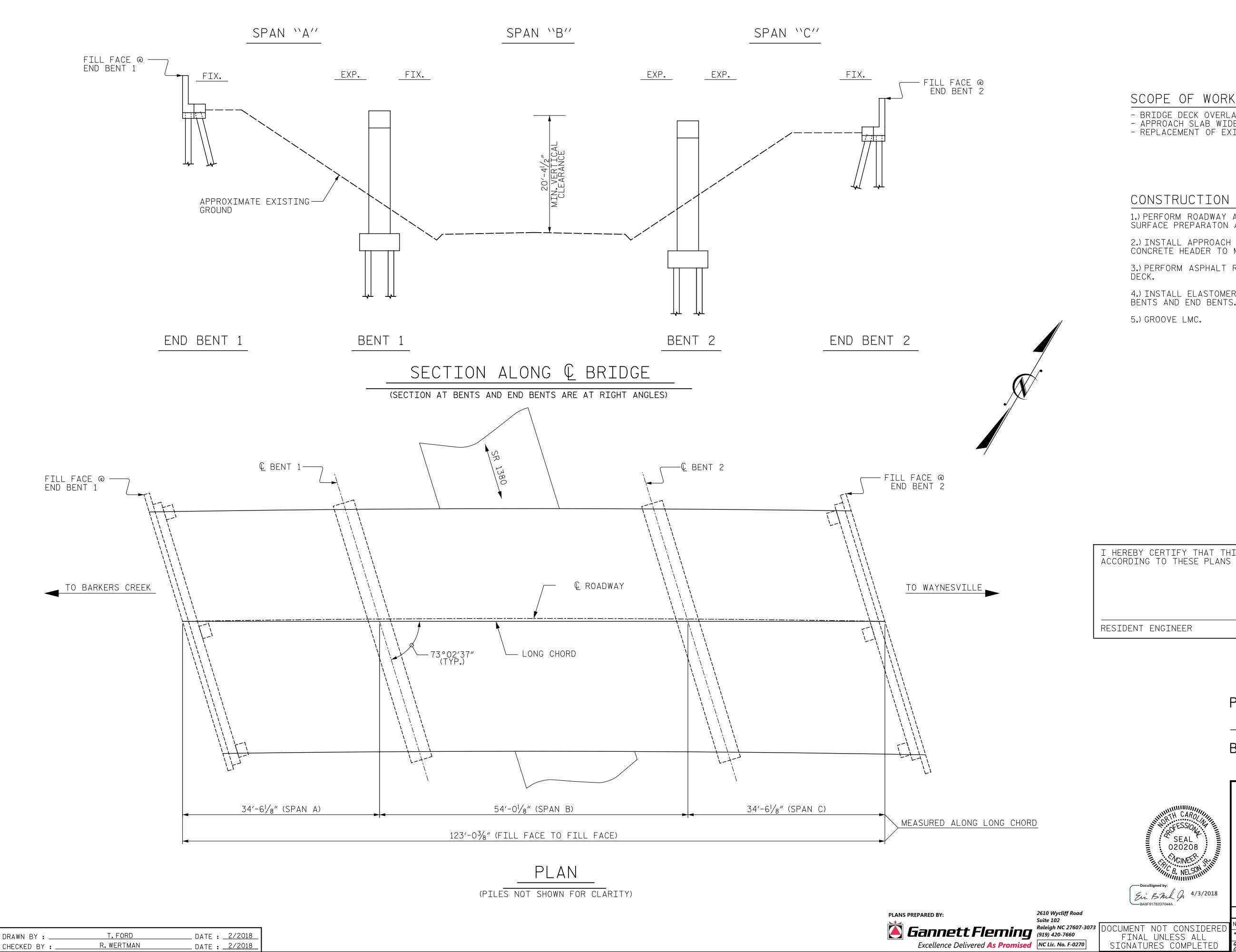
SURFACE PREPARATION

SPAN "C"

SEAL * 020208







R. WERTMAN

NOTE:

PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 1/26/2016.

BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS.

- BRIDGE DECK OVERLAY WITH LATEX MODIFIED CONCRETE (LMC)
 APPROACH SLAB WIDENING AND CONCRETE HEADER
- REPLACEMENT OF EXISITING BRIDGE DECK JOINTS

CONSTRUCTION SEQUENCE

1.) PERFORM ROADWAY APPROACH MILLING AND BRIDGE DECK SURFACE PREPARATON AND PLACE LMC OVERLAY

2.) INSTALL APPROACH SLAB WIDENING AND APPROACH SLAB CONCRETE HEADER TO MATCH NEW DECK GRADE

3.) PERFORM ASPHALT RESURFACING TO TIE APPROACHES TO BRIDGE

4.) INSTALL ELASTOMERIC CONCRETE AND SILICONE JOINTS AT BENTS AND END BENTS.

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

DATE

PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY

100 BRIDGE NO.__



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING BRIDGE #100 ON US23, US74 NBL OVER SR1380

> SHEET NO. S-80

> > TOTAL SHEETS

REVISIONS NO. BY: DATE:



LOCATION SKETCH

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

GENERAL 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.

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

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

ROADWAY MILLING IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN FOR MILLING AND RESURFACING ARE APPROXIMATE. MILL AND RESURFACE AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG LANE LINES OR EDGE LINES UNLESS OTHERWISE NOTED ON THE PLANS.

THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THRU OF THE DECK DURING HYDRO-DEMOLITION.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO AND DURING REPAIR OF BRIDGE DECKS. WHEN RAIN IS PREDICTED BETWEEN WORK PERIODS THE CONTRACTOR SHALL REMOVE DECK DRAIN SEAL DEVICES. REINSTALL DECK DRAIN DEVICES PRIOR TO RESUMING DECK REPAIR ACTIVITIES.

DURING CONSTRUCTION, BERMS OR APPROPRIATE MEASURES SHALL BE USED TO CONTROL RUN-OFF OF HYDRO-DEMOLITION WATER FROM FLOWING ACROSS TRAVEL LANES.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR SCARIFYING BRIDGE DECK, HYDRO-DEMOLITION OF BRIDGE DECK, AND CLASS II SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

FOR OVERLAY OF BRIDGE DECK WITH LATEX MODIFIED CONCRETE, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR SILICONE JOINT SEALANT. SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY. SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

> PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY 100 BRIDGE NO.____



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING BRIDGE #100 ON US23, US74 NBL OVER SR1380

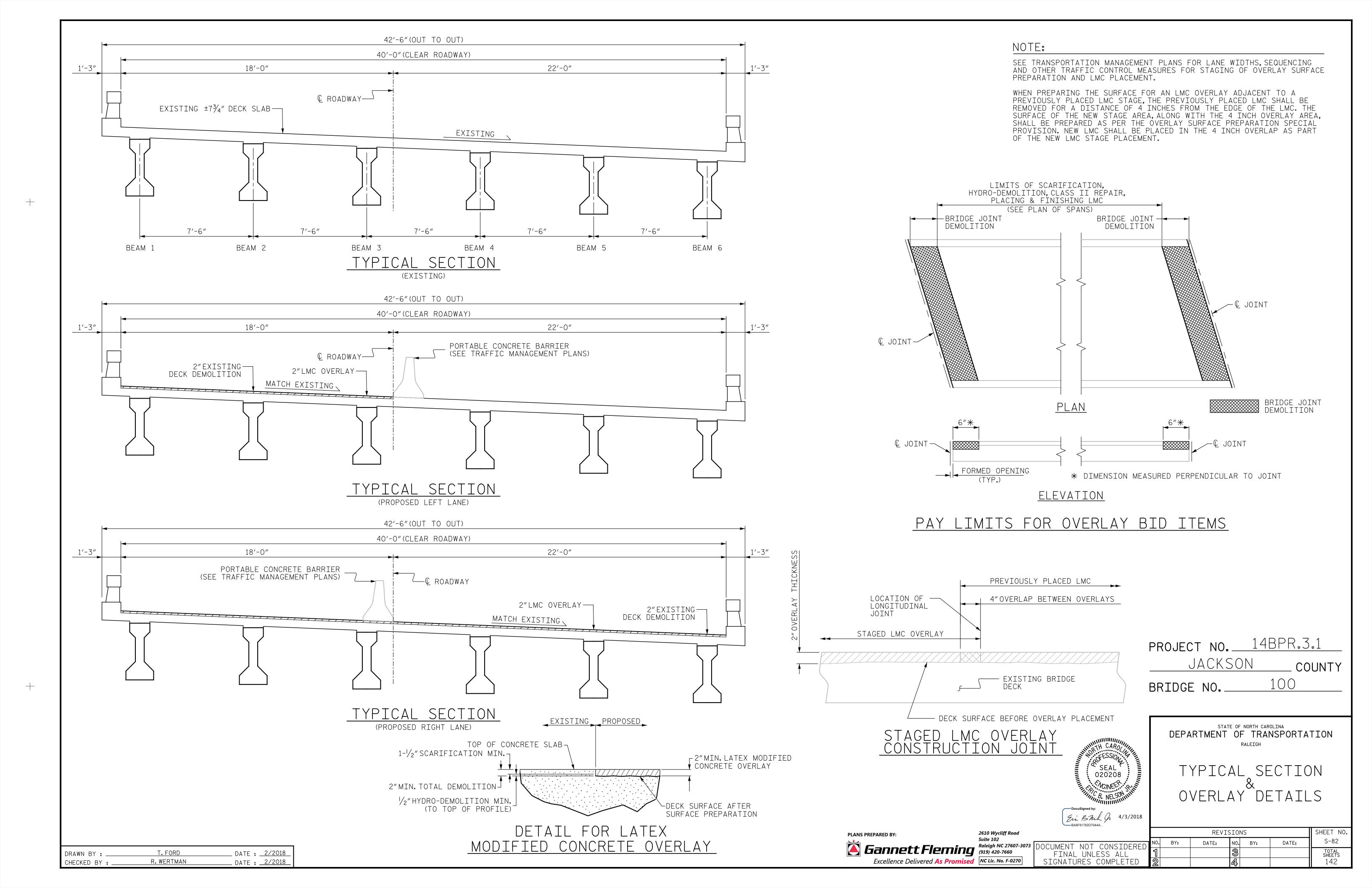
OCUMENT NOT CONSIDE FINAL UNLESS ALL SIGNATURES COMPLETE

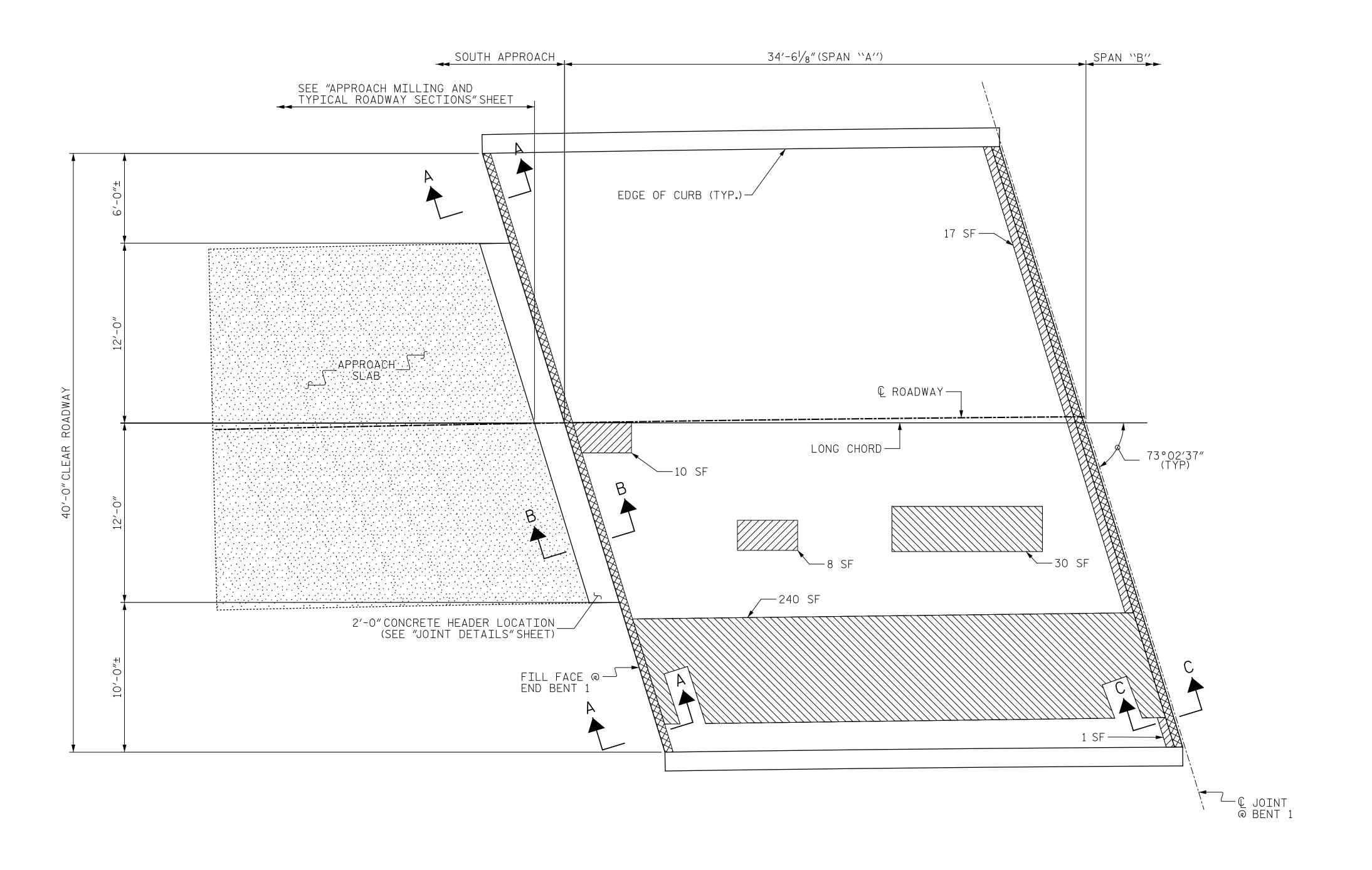
Gannett Fleming

Raleigh NC 27607-3073
(919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

			SHEET NO.				
RED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-81
	1			3			TOTAL SHEETS
ED	2			4			142

_ DATE : ____1/2018 __ DATE : ____2/2018 M. SPENCER DRAWN BY : ___ R. WERTMAN CHECKED BY:





PLAN OF SPAN "A"

DATE : 2/2018
DATE : 2/2018

T. FORD

R. WERTMAN

DRAWN BY : ___

(SEE SHEET NO.S-85 AND S-86 FOR SECTIONS A-A, B-B & C-C)

PLANS PREPARED BY:

2610 Wycliff Road
Suite 102
Raleigh NC 27607-307
(919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

Docusigned by: Ein Bhil Jr 4/3/2018 BA9F91762D7044A... REVISIONS SHEET NO. S-83 NO. BY: DATE: DATE: TOTAL SHEETS

BRIDGE JOINT DEMOLITION 41.9 SF GROOVING BRIDGE DECK 1228 SF

* INCLUDES CONCRETE HEADER LOCATION

* SCARIFYING BRIDGE DECK

HYDRO-DEMOLITION OF BRIDGE DECK

CLASS II SURFACE PREPARATION

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

SUMMARY OF QUANTITIES FOR SPAN "A"

ESTIMATE

160 SY

155 SY

34.0 SY

ACTUAL

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX.AREA CLASS II SURFACE PREPARATION

_ APPROX.AREA CLASS II WITH POTENTIAL BLOW THROUGH

APPROX. AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

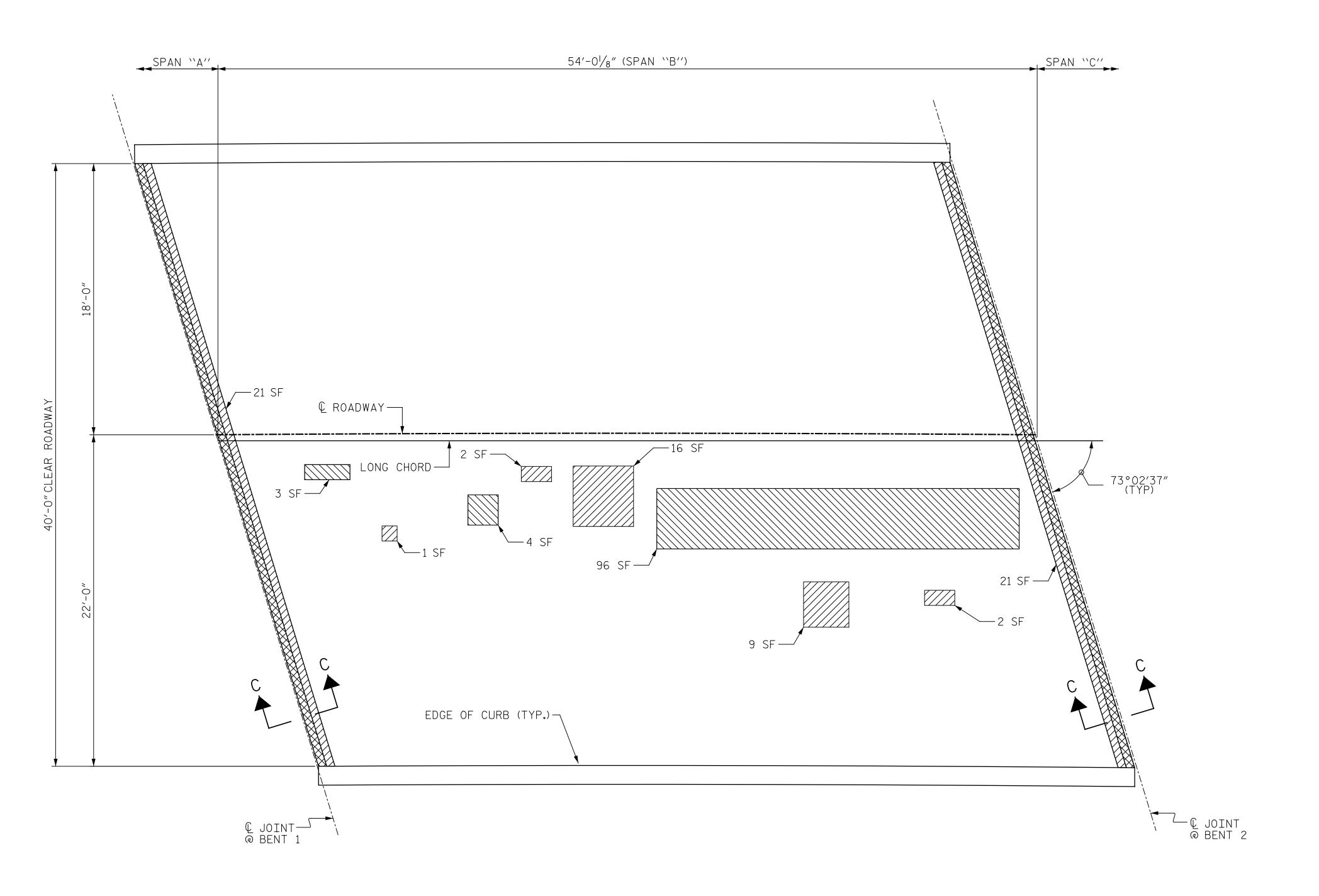
PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY

100 BRIDGE NO._

SEAL 7 020208

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION SPAN "A"



PLAN OF SPAN "B" (SEE SHEET NO.S-86 FOR SECTION C-C)

SUMMARY OF QUANTITIES FOR SPAN "B" ESTIMATE ACTUAL SCARIFYING BRIDGE DECK 241 SY 241 SY HYDRO-DEMOLITION OF BRIDGE DECK CLASS II SURFACE PREPARATION 19.5 SY 41.9 SF BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK 1950 SF

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

> SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX.AREA CLASS II SURFACE PREPARATION

_ APPROX.AREA CLASS II WITH POTENTIAL BLOW THROUGH

APPROX.AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY 100 BRIDGE NO._



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION SPAN "B"

REVISIONS DATE:

PLANS PREPARED BY:

Cannett Fleming

Excellence Delivered As Promised

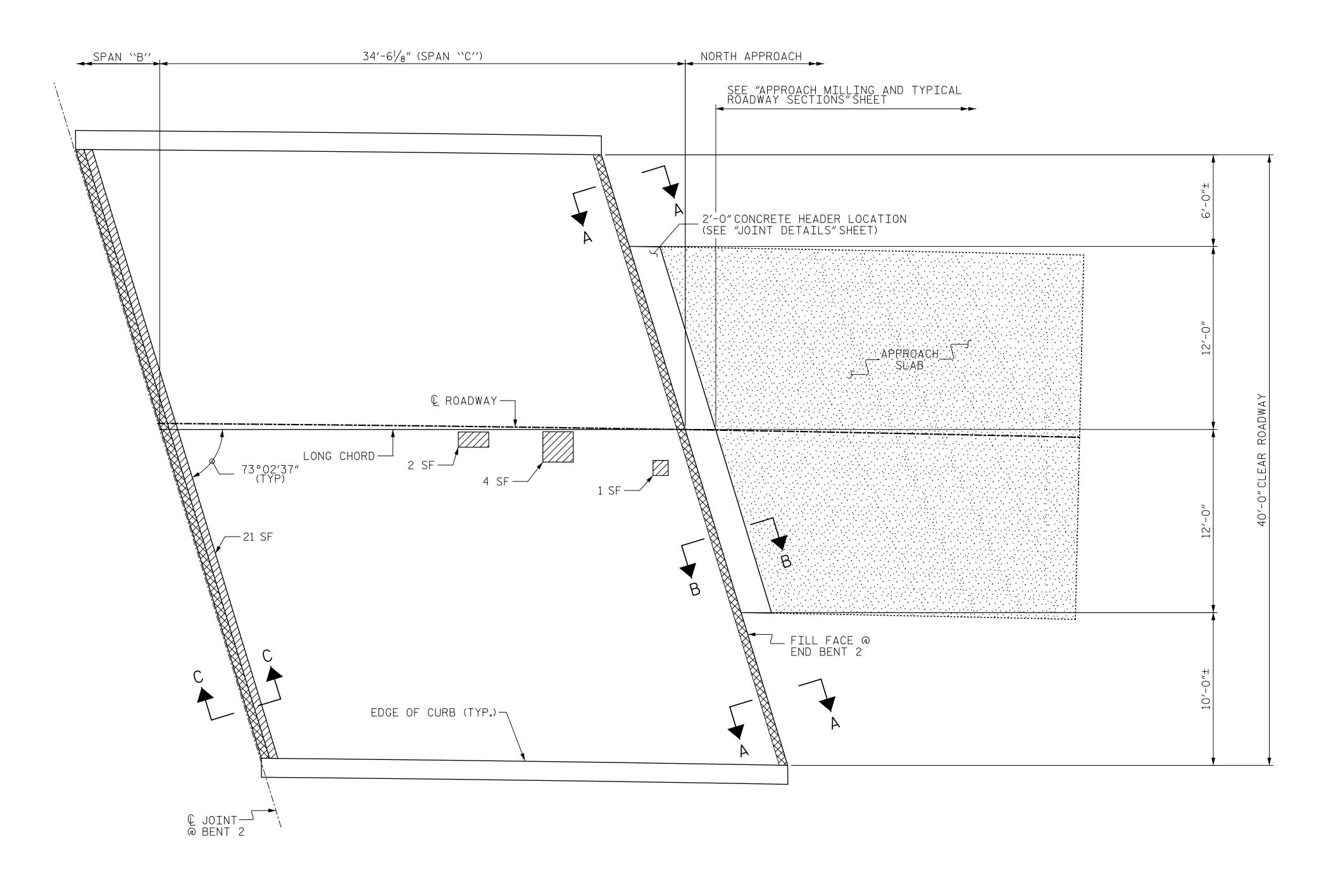
2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

NC Lic. No. F-0270

OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NO. NO. BY: S-84 TOTAL SHEETS 142

DATE : 2/2018
DATE : 2/2018 T. FORD R. WERTMAN DRAWN BY : ___



PLAN OF SPAN "C"

(SEE SHEET NO.S-85 AND S-86 FOR SECTIONS A-A, B-B & C-C)

ESTIMATE ACTUAL * SCARIFYING BRIDGE DECK 160 SY HYDRO-DEMOLITION OF BRIDGE DECK 155 SY CLASS II SURFACE PREPARATION 3.1 SY BRIDGE JOINT DEMOLITION 41.9 SF GROOVING BRIDGE DECK 1228 SF * INCLUDES CONCRETE HEADER LOCATION

SUMMARY OF QUANTITIES FOR SPAN 'C'

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

> SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

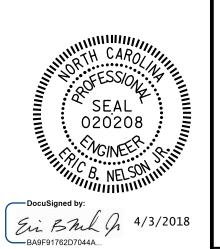
APPROX. AREA CLASS II SURFACE PREPARATION

APPROX.AREA CLASS II WITH POTENTIAL BLOW THROUGH

APPROX. AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY 100 BRIDGE NO._



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION SPAN "C"

> SHEET NO S-85

REVISIONS DATE: OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:

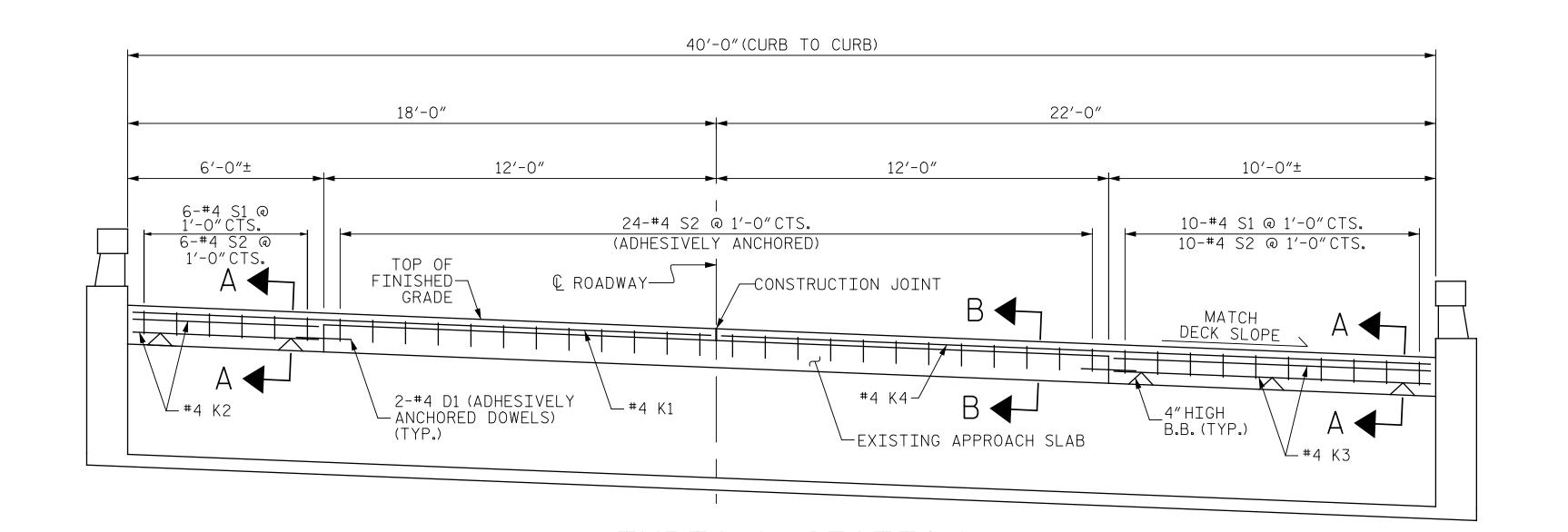
Cannett Fleming

Excellence Delivered As Promised

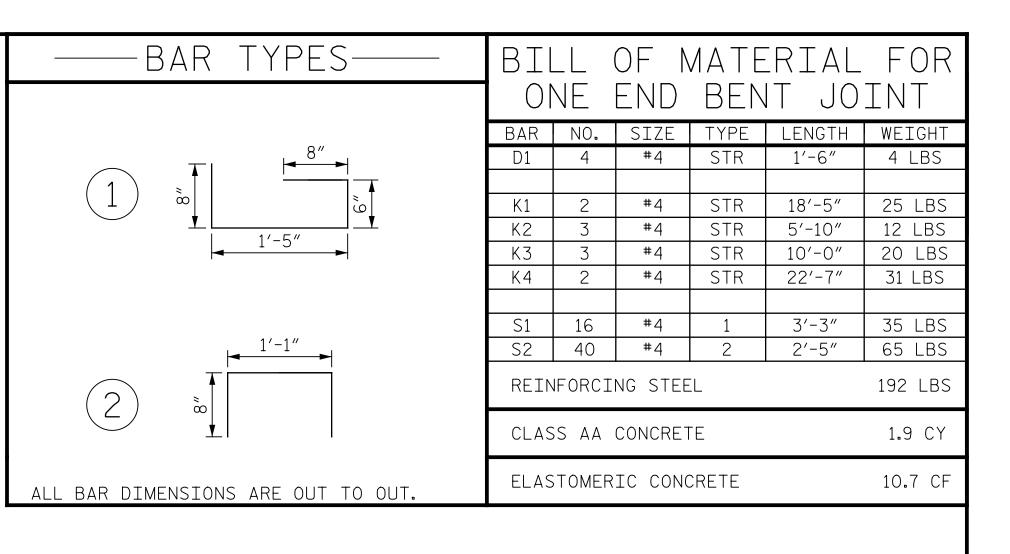
2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

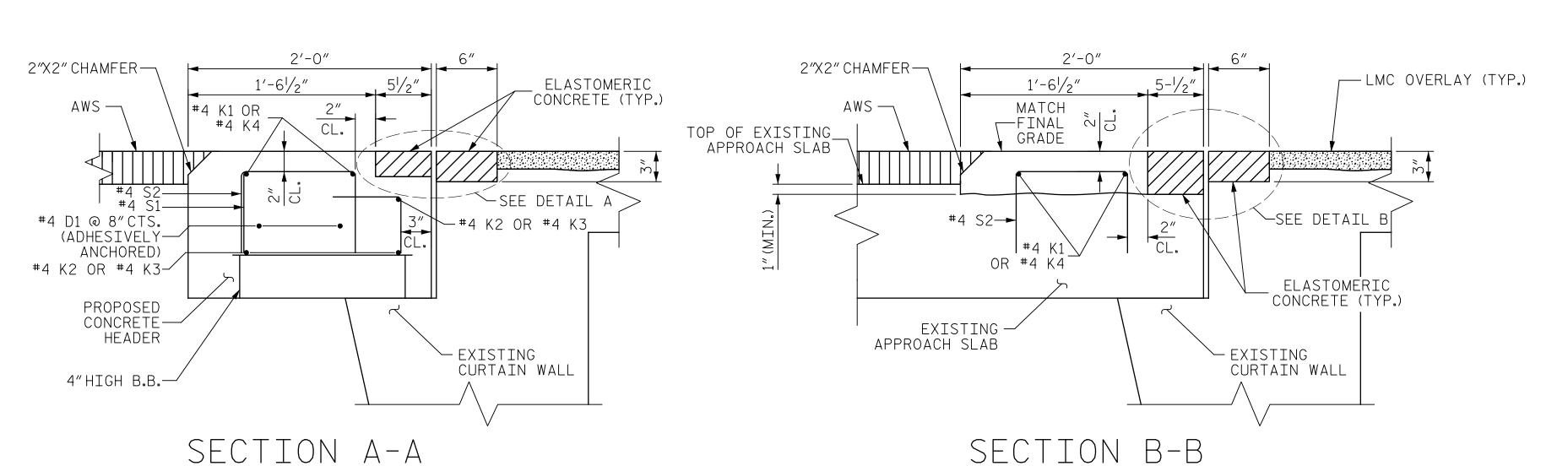
NC Lic. No. F-0270

__ DATE : <u>2/2018</u> __ DATE : <u>2/2018</u> T. FORD DRAWN BY : ___ R. WERTMAN



(LOOKING STATION AHEAD)





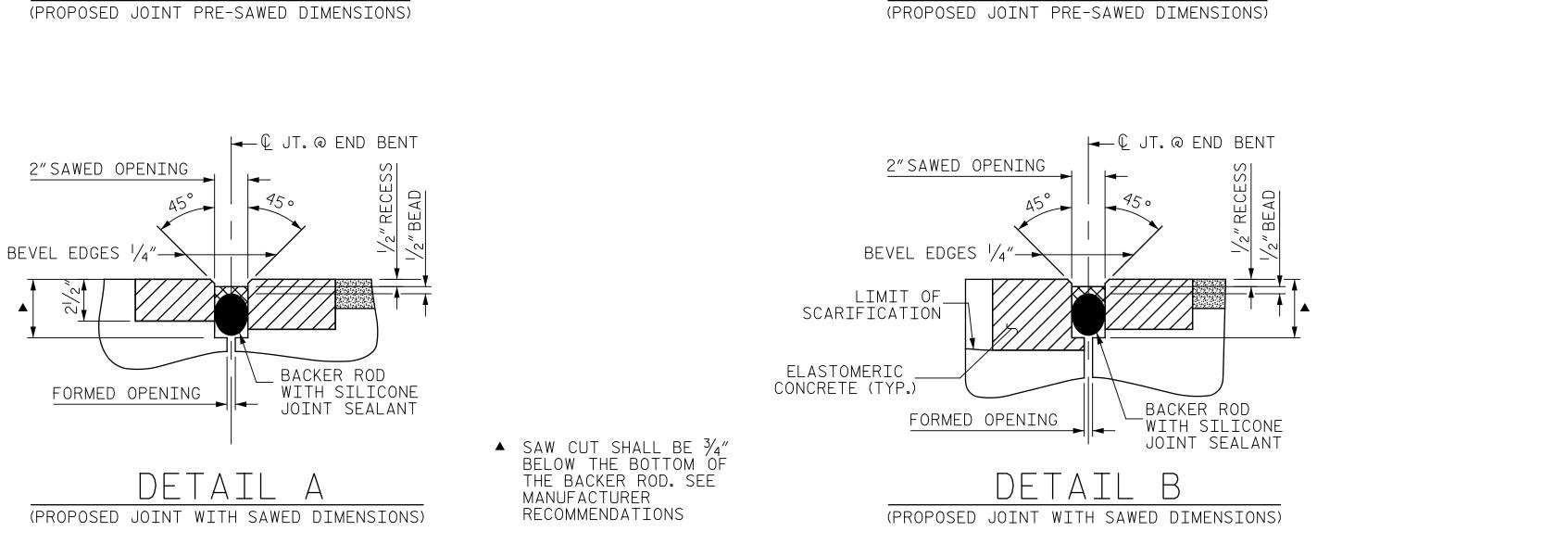
NOTES

THE INSTALLED SILICONE JOINT SEALS SHALL BE WATERTIGHT.

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE SILICONE JOINT SEAL IN LIEU OF SAWING THE JOINT.

FOR ADHESIVELY ANCHORED DOWELS, NO FIELD TESTING IS REQUIRED.

FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE ARTICLE 420-13 OF THE STANDARD SPECIFICATIONS.



SHEET 1 OF 2

DEPARTMENT OF TRANSPORTATION

RALEIGH

JOINT DETAILS

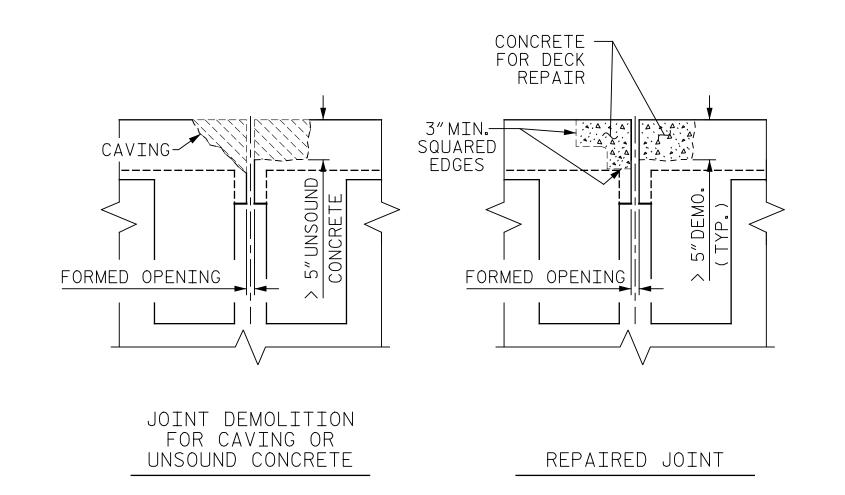


NO		
) NO.	NOT CONSIDERED - UNLESS ALL	DOCLIMENT
[′]	NOT CONSTDERED	DOCOMENT
	UNLESS ALL	FINAL
■ 45	,	0 ± 01177110

SEAL * 020208

Ein Bal Ja 4/3/2018
BA9F91762D7044A...

		SHEET NO.				
).	BY:	DATE:	NO.	BY:	DATE:	S-86
			8			TOTAL SHEETS
)						142



CONCRETE FOR DECK REPAIR DETAIL

(FOR REPAIR OF JOINTS WITH DEEP EXCAVATION OR SLOPING EDGES)

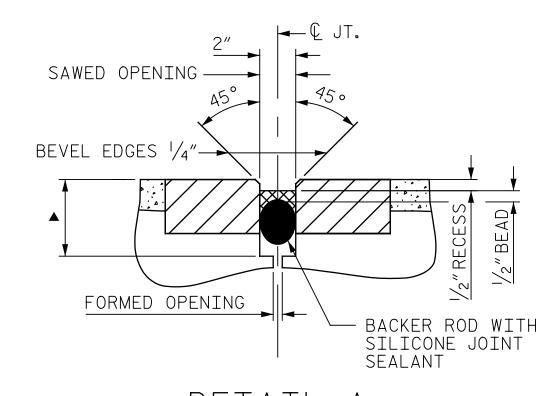
NOTE: RETAIN ALL EXISTING REINFORCING STEEL. BARS CUT OR DAMAGED DURING DEMOLITION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT PRIOR TO PLACING REPAIR CONCRETE OR ELASTOMERIC CONCRETE.

> FOR BRIDGE JOINT DEMOLITION EXCAVATE TO SOUND CONCRETE. IF BRIDGE JOINT DEMOLITION EXTENDS MORE THAN 2"BELOW THE BOTTOM OF THE PLANNED ELASTOMERIC CONCRETE HEADER OR IF CAVING OF CONCRETE OCCURS SUCH THAT A LEVEL SURFACE CANNOT BE ACHIEVED, AS SHOWN, APPROVED REPAIR CONCRETE SHALL BE PLACED IN THE EXCAVATED AREA TO THE SURFACE OF THE DECK

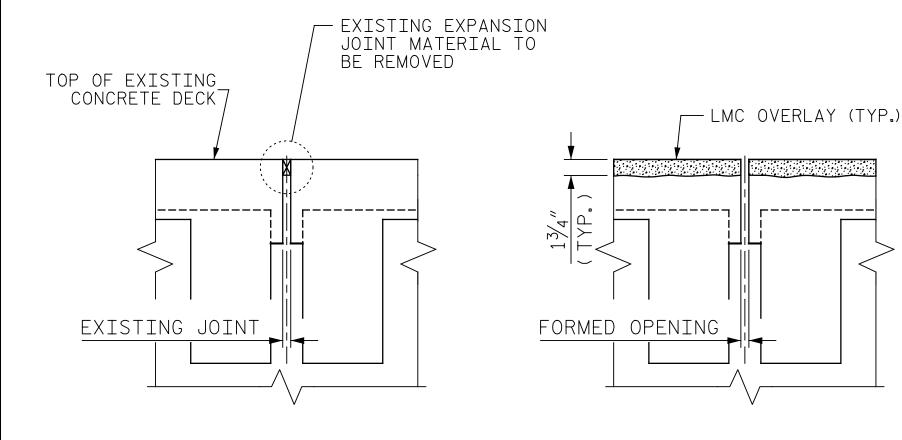
> DO NOT INSTALL ELASTOMERIC CONCRETE HEADER UNTIL THE REPAIR CONCRETE HAS ACHIEVED DESIGN STRENGTH AND IS FULLY CURED (REFER TO MANUFACTURER SPECIFICATIONS FOR STRENGTH AND CURE).

> THE CONTRACTOR SHALL HAVE ON HAND REPAIR CONCRETE AND MIXING EQUIPMENT PRIOR TO BEGINNING BRIDGE JOINT DEMOLITION.

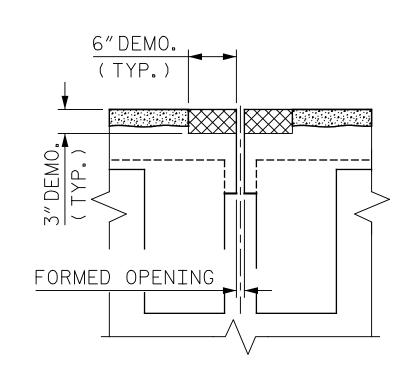
> > ▲ SAW CUT SHALL BE 3/4" BELOW THE BOTTOM OF THE BACKER ROD. SEE MANUFACTURER RECOMMENDATIONS



(PROPOSED JOINT WITH SAWED DIMENSIONS)

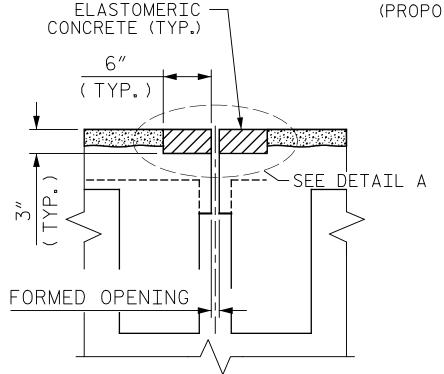


PROPOSED LMC OVERLAY EXISTING



MINIMUM JOINT DEMOLITION

SECTION C-C



PROPOSED JOINT PRE-SAWED DIMENSIONS



JOINT SEAL DETAILS AT BENT

SECTION D-D

SELF-LEVELING V

SILICONE JOINT

SEALANT

| EXISTING OPENING (DECK

OPENING IN DECK

- PROVIDE WATERTIGHT

SEAL AT END OF JOINT

Q JOINT AT BENT

*NON-SAG SILICONE JOINT SEALANT TO BE

PLACED AND ALLOWED TO SET, PRIOR TO PLACEMENT OF SELF-LEVELING SILICONE

RAIL —

1'-0"

-BACKER

ROD

SEAL AS RECOMMENED

BY MANUFACTURER

PLAN

JOINT SEALANT.

*NON-SAG SILICONE —

JOINT SEALANT

— SILICONE JOINT SEALANT SHALL BE RECESSED 1/2"

BELOW DECK SURFACÉ

- JOINT OPENING IN RAIL

SAWED TO MATCH SAWED

| SAWED OPENING (DECK)

PROJECT NO. 14BPR.3.1 JACKSON COUNTY 100 BRIDGE NO.

SHEET 2 OF 2



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOINT DETAILS

Eir Bhl / 4/3/2018
BA9F91762D7044A...

HYDRO-DEMOLITION OR EXCAVATION OF CONCRETE AT THE EXISTING JOINT SHALL RESULT IN THE BOTTOM OF THE EXCAVATION BEING REASONABLY FLAT AND LEVEL, TO PROVIDE SUFFICIENT SUBSTRATE FOR PLACEMENT AND SUPPORT OF ELASTOMERIC OR REPAIR CONCRETE. DEMOLISH BRIDGE JOINT TO THE NECESSARY DEPTH, SUCH THAT ELASTOMERIC CONCRETE SHALL BE FOUNDED ON CONCRETE OR REPAIR CONCRETE SUBSTRATE, NOT LATEX MODIFIED CONCRETE

ELASTOMERIC CONCRETE BENT 1 10.5 CF 10.5 CF BENT 2

_ DATE : <u>2/2018</u> M. LEE DRAWN BY : _ DATE : <u>2/2018</u> R. WERTMAN CHECKED BY : .

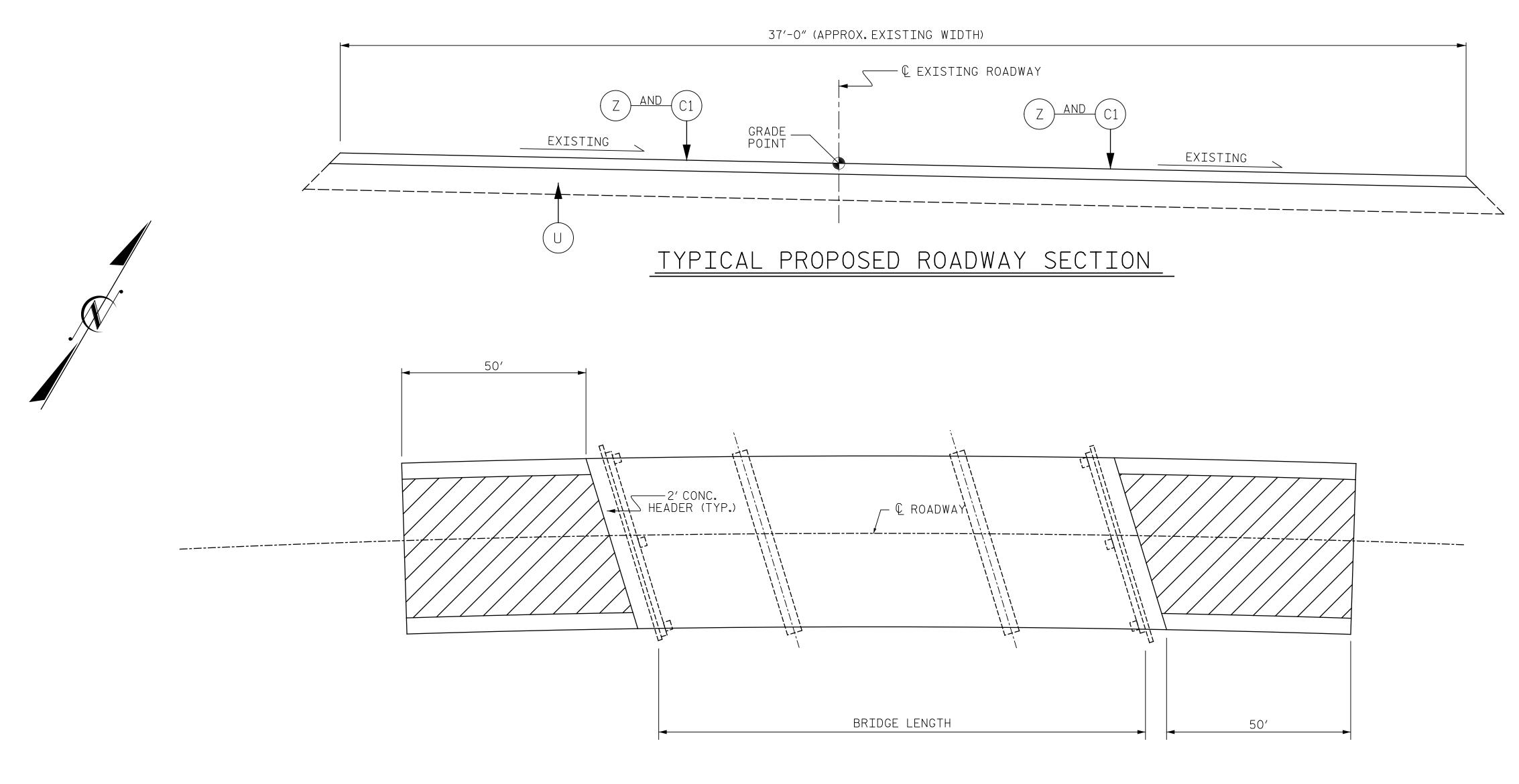
2610 Wycliff Road **PLANS PREPARED BY:** Gannett Fleming
Raleigh NC 27607-3073
(919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NO REVISIONS S-87 NO. BY: DATE: DATE: BY: TOTAL SHEETS

	PAVEMENT SCHEDULE
C1	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ, YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
U	EXISTING PAVEMENT
Z	ASPHALT MILLING TO 1½" DEPTH.

SUMMARY OF QUANTITIES					
	ESTIMATE	ACTUAL			
INCIDENTAL MILLING	459 SQ. YDS.				
ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C	39 TONS				
ASPHALT BINDER FOR PLANT MIX	2.5 TONS				

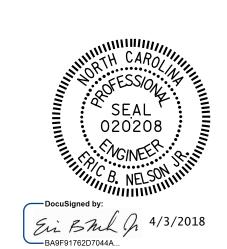


NOTES:

INCIDENTAL MILLING - EXISTING APPROACH ASPHALT PAVEMENT TO BE MILLED AS NECESSARY TO ATTAIN MINIMUM 11/2" DEPTH OF NEW ASPHALT PAVEMENT. PROVIDE NEW ASPHALT PAVING THICKNESS TO CREATE A SMOOTH TRANSITION TO THE APPROACH SLABS, AS SHOWN. NEW ASPHALT PAVING THICKNESS MAY EXCEED 11/2" DUE TO SETTLEMENT OF THE EXISTING APPROACH ASPHALT PAVEMENT.

INCIDENTAL MILLING

PROJECT NO. 14BPR.3.1 JACKSON __ COUNTY BRIDGE NO. 100



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

APPROACH MILLING AND TYPICAL ROADWAY SECTIONS

<u>PLAN</u>

PLANS PREPARED BY:

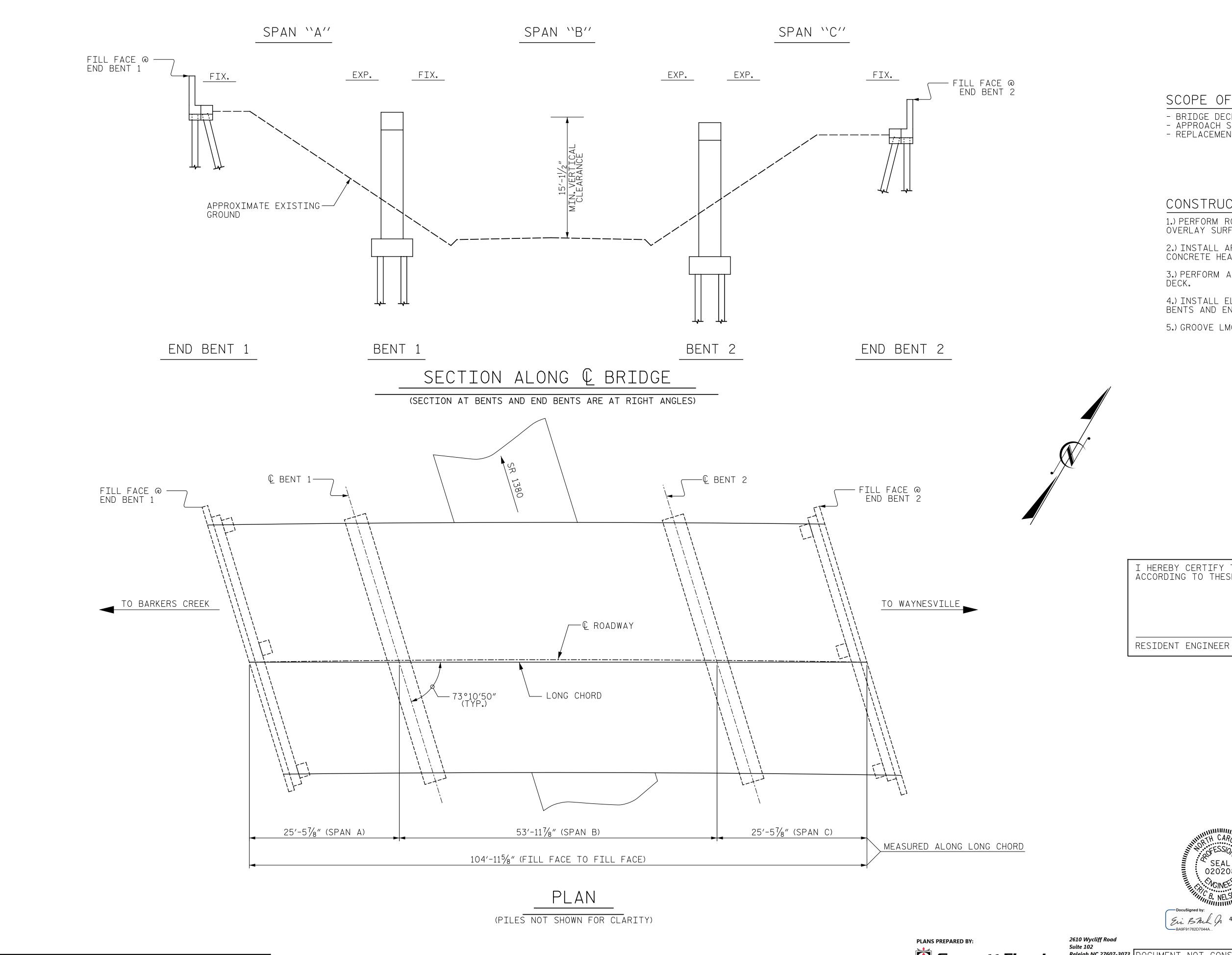
2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

Excellence Delivered As Promised NC Lic. No. F-0270

OOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NO REVISIONS DATE: S-88 DATE:

DRAWN BY :	A.B.PRIDGEN	DATE	. 02/2018
CHECKED BY :	E. NELSON	DATE	02/2018



M. SPENCER

R. WERTMAN

DRAWN BY : ___

CHECKED BY : .

__ DATE : <u>2/2018</u>

_ DATE : <u>2/2018</u>

NOTE:

PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 1/26/2016.

BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS.

SCOPE OF WORK

- BRIDGE DECK OVERLAY WITH LATEX MODIFIED CONCRETE (LMC)
 APPROACH SLAB WIDENING AND CONCRETE HEADER
- REPLACEMENT OF EXISTING BRIDGE DECK JOINTS

CONSTRUCTION SEQUENCE

1.) PERFORM ROADWAY APPROACH MILLING AND BRIDGE DECK OVERLAY SURFACE PREPARATON AND PLACE LMC OVERLAY.

2,) INSTALL APPROACH SLAB WIDENING AND APPROACH SLAB CONCRETE HEADER TO MATCH NEW DECK GRADE.

3.) PERFORM ASPHALT RESURFACING TO TIE APPROACHES TO BRIDGE DECK.

4.) INSTALL ELASTOMERIC CONCRETE AND SILICONE JOINTS AT BENTS AND END BENTS.

5.) GROOVE LMC.

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

PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY 104 BRIDGE NO.___

DATE



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING BRIDGE #104 ON US23, US74 SBL OVER SR1380

> SHEET NO. S-89

> > TOTAL SHEETS

REVISIONS NO. BY: DATE: OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

Gannett FlemingRaleigh NC 27607-3073
(919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270



LOCATION SKETCH

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

M. SPENCER

R. WERTMAN

DRAWN BY : ___

_ DATE : <u>2/2018</u>

_ DATE : <u>2/2018</u>

GENERAL 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.

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

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

ROADWAY MILLING IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN FOR MILLING AND RESURFACING ARE APPROXIMATE. MILL AND RESURFACE AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG LANE LINES OR EDGE LINES UNLESS OTHERWISE NOTED ON THE PLANS.

THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THRU OF THE DECK DURING HYDRO-DEMOLITION.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO AND DURING REPAIR OF BRIDGE DECKS. WHEN RAIN IS PREDICTED BETWEEN WORK PERIODS THE CONTRACTOR SHALL REMOVE DECK DRAIN SEAL DEVICES. REINSTALL DECK DRAIN DEVICES PRIOR TO RESUMING DECK REPAIR ACTIVITIES.

DURING CONSTRUCTION, BERMS OR APPROPRIATE MEASURES SHALL BE USED TO CONTROL RUN-OFF OF HYDRO-DEMOLITION WATER FROM FLOWING ACROSS TRAVEL LANES.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR SCARIFYING BRIDGE DECK, HYDRO-DEMOLITION OF BRIDGE DECK, AND CLASS II SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

FOR OVERLAY OF BRIDGE DECK WITH LATEX MODIFIED CONCRETE, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

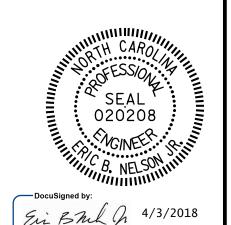
FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR SILICONE JOINT SEALANT, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.



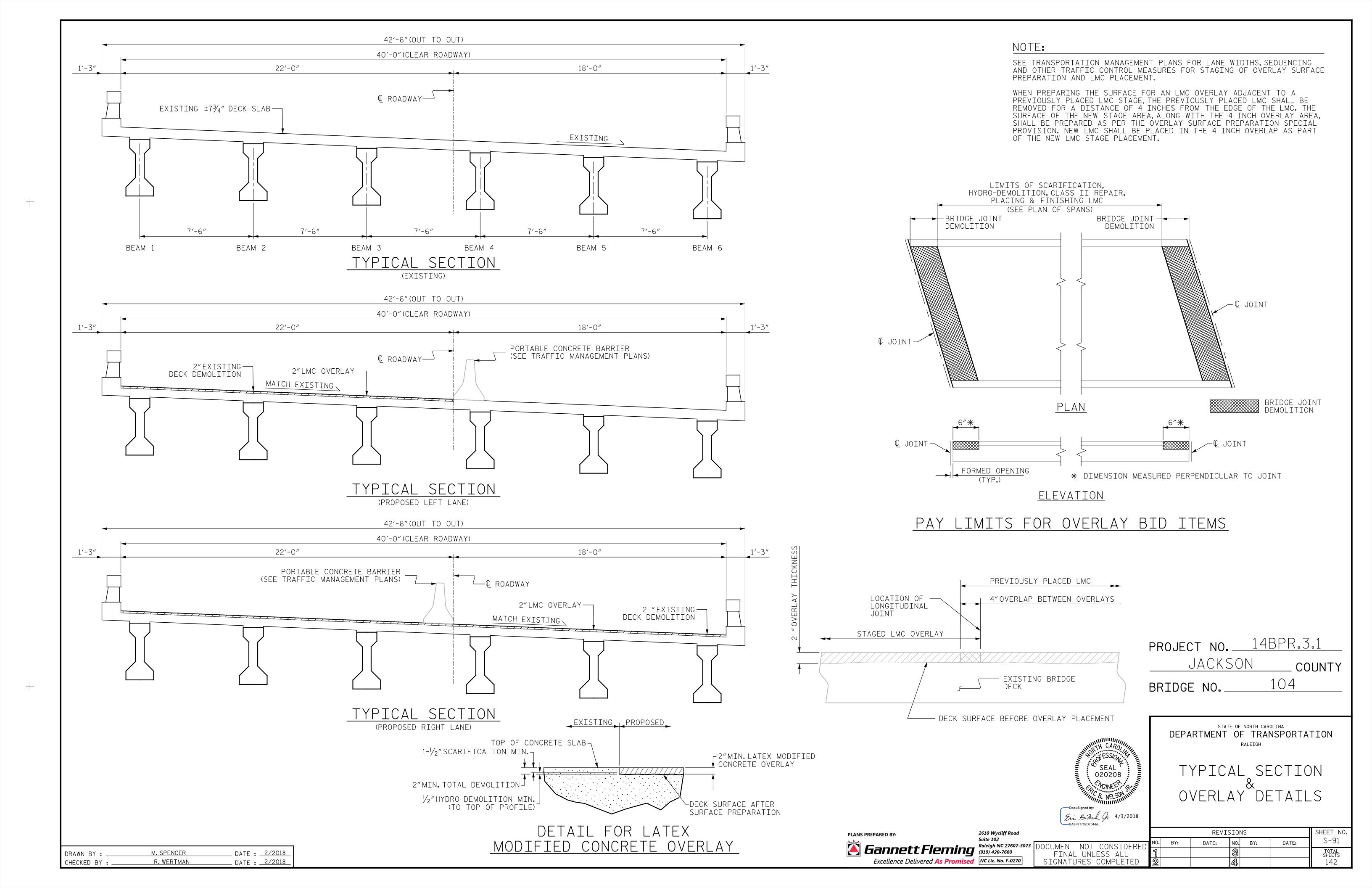
DEPARTMENT OF TRANSPORTATION

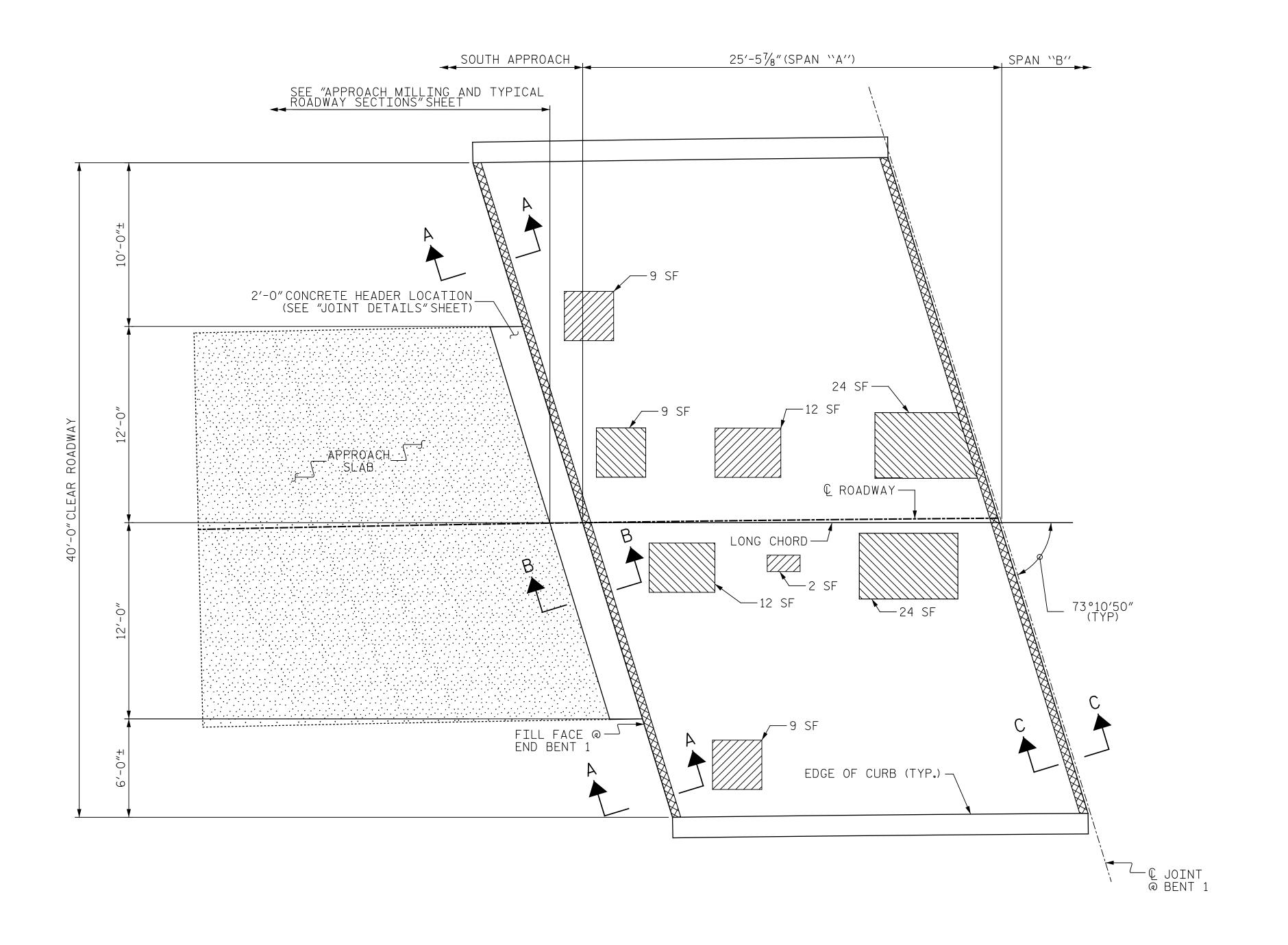
RALEIGH

GENERAL DRAWING BRIDGE #104 ON US23, US74 SBL OVER SR1380

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 2

		BA9F91762D
PREPARED BY:	2610 Wycliff Road	
	Suite 102	
Cappett Floring	Raleigh NC 27607-3073	DOCUMENT NO
Gannett Fleming	(919) 420-7660	FINAL UN
Excellence Delivered As Promised	NC Lic. No. F-0270	STGNATURES





PLAN OF SPAN "A"

__ DATE : <u>2/2018</u> __ DATE : <u>2/2018</u>

M. SPENCER

R. WERTMAN

DRAWN BY : ___

(SEE SHEET NO.S-94 AND S-95 FOR SECTIONS A-A, B-B AND C-C)

PLANS PREPARED BY:

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

Ein Brul J 4/3/2018

BA9F91762D7044A... REVISIONS SHEET NO. DATE: TOTAL SHEETS

SUMMARY OF QUANTITIES FOR SPAN "A" ESTIMATE ACTUAL * SCARIFYING BRIDGE DECK 120 SY 115 SY HYDRO-DEMOLITION OF BRIDGE DECK CLASS II SURFACE PREPARATION 11.3 SY 41.9 SF BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK 894 SF

* INCLUDES CONCRETE HEADER LOCATION

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX.AREA CLASS II SURFACE PREPARATION

_ APPROX.AREA CLASS II WITH POTENTIAL BLOW THROUGH

APPROX. AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY

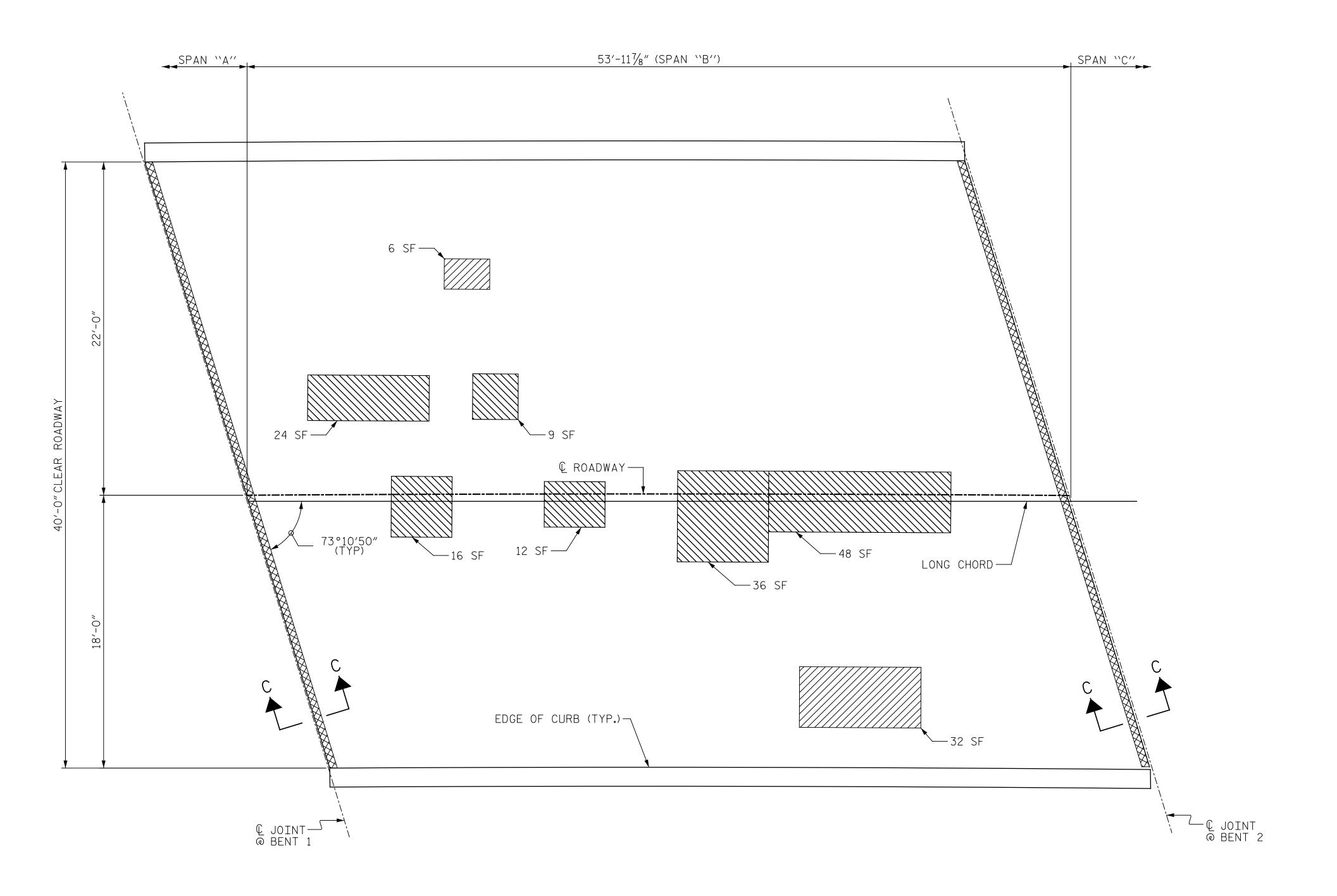
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION

SPAN "A"

104 BRIDGE NO.___





SUMMARY OF QUANTITIES FOR SPAN "B"

ESTIMATE ACTUAL

SCARIFYING BRIDGE DECK

HYDRO-DEMOLITION OF BRIDGE DECK

CLASS II SURFACE PREPARATION

BRIDGE JOINT DEMOLITION

41.9 SF

GROOVING BRIDGE DECK

1949 SF

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

_ SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX AREA CL

APPROX.AREA CLASS II SURFACE PREPARATION

- APPROX. AREA CLASS II WITH POTENTIAL BLOW THROUGH

- APPROX. AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION



DEPARTMENT OF TRANSPORTATION

RALEIGH

SURFACE PREPARATION SPAN "B"

> SHEET NO. S-93

> > TOTAL SHEETS

REVISIONS

OCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 2

PLAN OF SPAN "B"

(SEE SHEET NO.S-95 FOR SECTION C-C)

PLANS PREPARED BY:

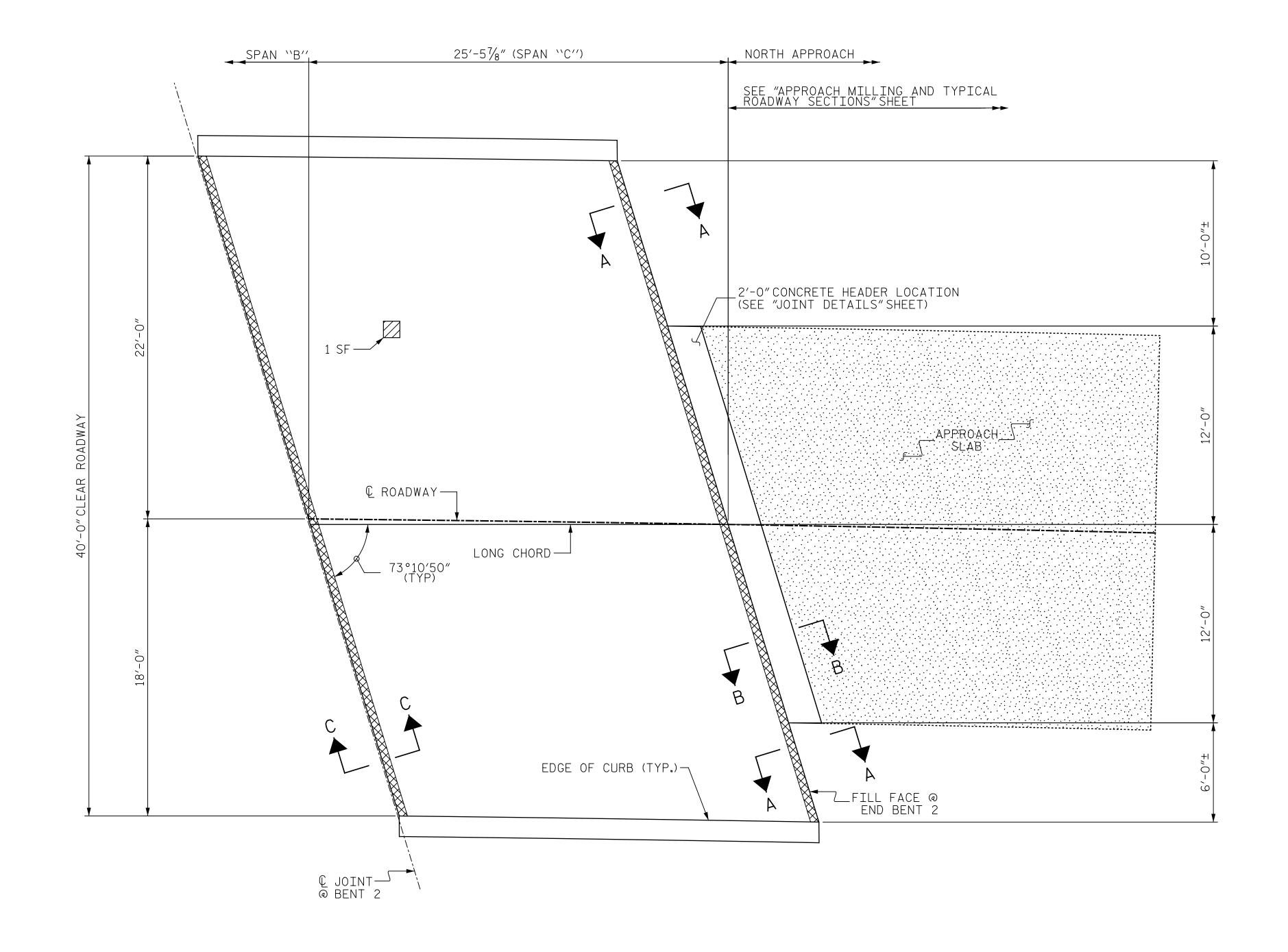
Cannett Fleming

Excellence Delivered As Promised

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

NC Lic. No. F-0270

DRAWN BY: M. SPENCER DATE: 2/2018
CHECKED BY: R. WERTMAN DATE: 2/2018



PLAN OF SPAN "C"

__ DATE : <u>2/2018</u> __ DATE : <u>2/2018</u>

M. SPENCER

R. WERTMAN

DRAWN BY : ___

(SEE SHEET NO.S-94 SMF S-95 FOR SECTIONS A-A, B-B AND C-C)

PLANS PREPARED BY:

Cannett Fleming

Excellence Delivered As Promised

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

NC Lic. No. F-0270

OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS SHEET NO. S-94 NO. BY: DATE: TOTAL SHEETS

SUMMARY OF QUANTITIES FOR SPAN "C" ESTIMATE ACTUAL * SCARIFYING BRIDGE DECK 120 SY HYDRO-DEMOLITION OF BRIDGE DECK 115 SY CLASS II SURFACE PREPARATION 0.1 SY 41.9 SF BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK 894 SF

* INCLUDES CONCRETE HEADER LOCATION

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

- APPROX. AREA CLASS II SURFACE PREPARATION APPROX. AREA CLASS II

_ APPROX.AREA CLASS II WITH POTENTIAL BLOW THROUGH

APPROX. AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

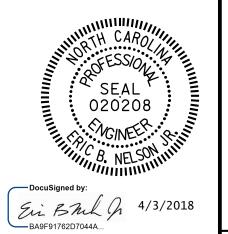
PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY

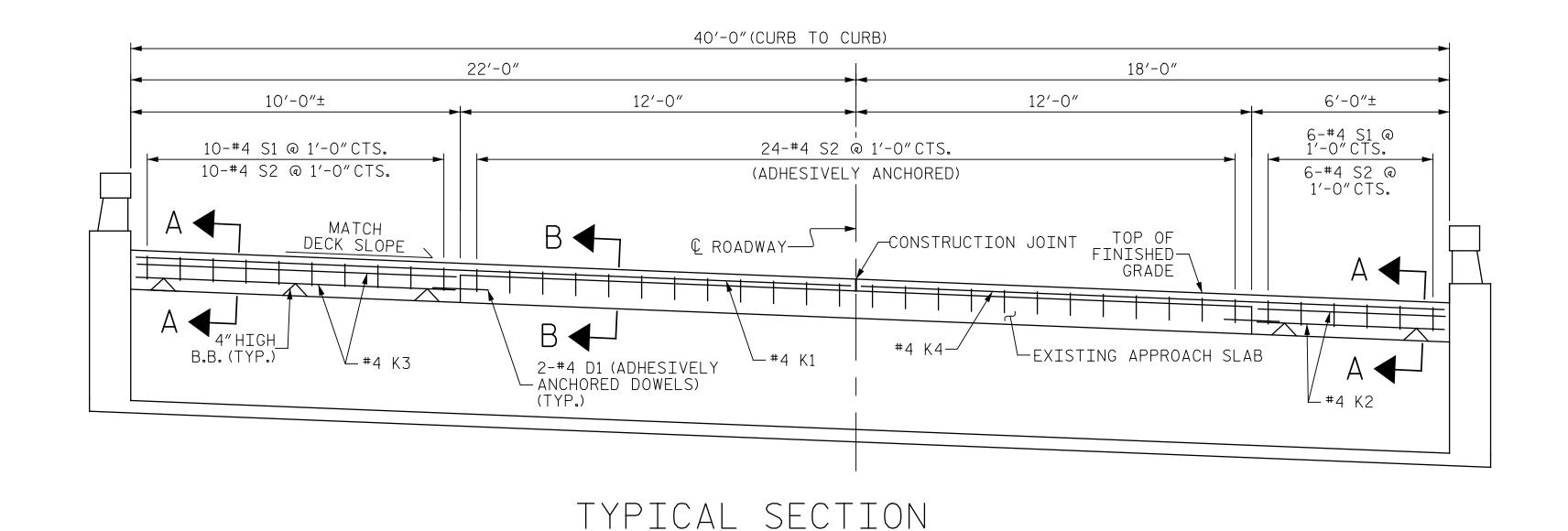
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SURFACE PREPARATION

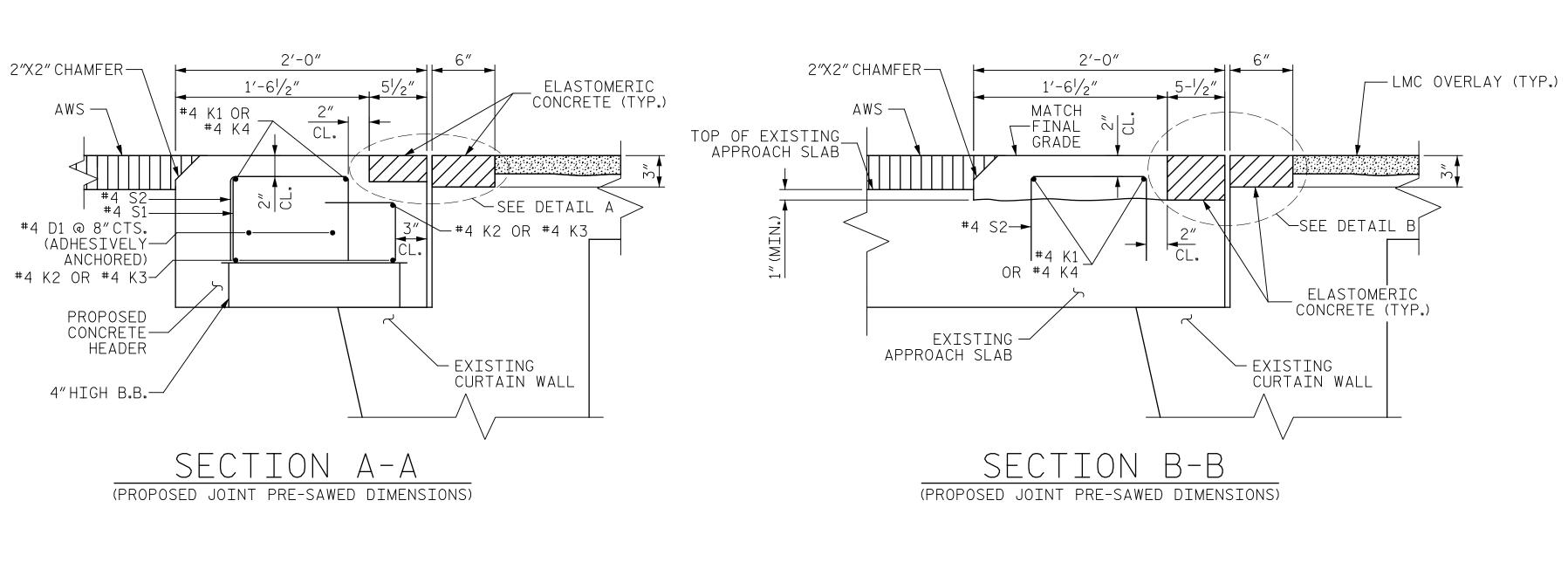
SPAN "C"

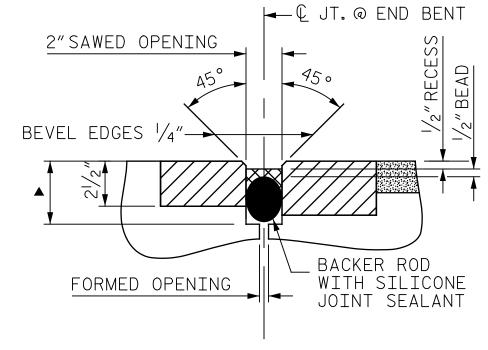
104 BRIDGE NO.____





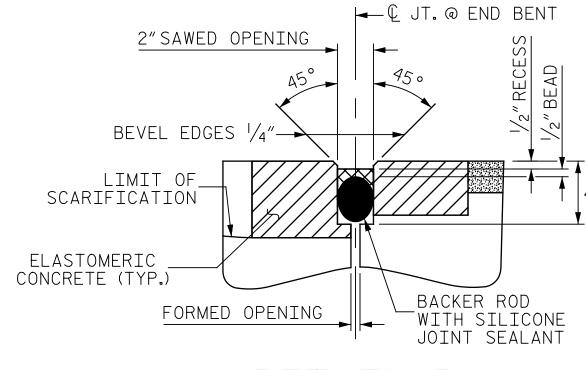
(LOOKING STATION AHEAD)





DETAIL A
(PROPOSED JOINT WITH SAWED DIMENSIONS)

▲ SAW CUT SHALL BE ¾"
BELOW THE BOTTOM OF
THE BACKER ROD. SEE
MANUFACTURER
RECOMMENDATIONS



DETAIL B

(PROPOSED JOINT WITH SAWED DIMENSIONS)

--BAR TYPES-

2 &

ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL FOR ONE END BENT JOINT

	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
	D1	4	#4	STR	1′-6″	4	
I	K1	2	#4	STR	22′-7″	31	
I	K2	3	#4	STR	5′-10″	12	
I	K3	3	#4	STR	10'-0"	20	
I	K4	2	#4	STR	18′-5″	25	
	S1	16	#4	1	3′-3″	35	
	S2	40	#4	2	2′-5″	65	

REINFORCING STEEL 192 LBS

CLASS AA CONCRETE 1.9 CY
ELASTOMERIC CONCRETE 10.7 CF

NOTES

THE INSTALLED SILICONE JOINT SEALS SHALL BE WATERTIGHT.

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE SILICONE JOINT SEAL IN LIEU OF SAWING THE JOINT.

FOR ADHESIVELY ANCHORED DOWELS, NO FIELD TESTING IS REQUIRED.

FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE ARTICLE 420-13 OF THE STANDARD SPECIFICATIONS.

SHEET 1 OF 2

DEPARTMENT OF TRANSPORTATION

RALEIGH

JOINT DETAIL

PLANS PREPARED BY:

Cannett Fleming

Excellence Delivered As Promised

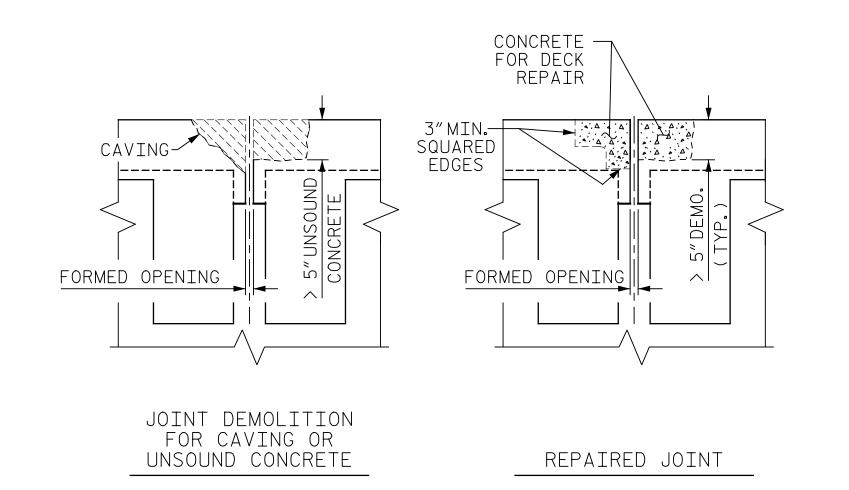
2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

NC Lic. No. F-0270

OCUMENT NOT CONSIDERED TINAL UNLESS ALL SIGNATURES COMPLETED 2

Eir BML 9 4/3/2018
BA9F91762D7044A...

					_	_
	SHEET NO					
NO.	BY:	DATE:	NO.	BY:	DATE:	S-95
1			₩			TOTAL SHEETS
2			₩			142



CONCRETE FOR DECK REPAIR DETAIL

(FOR REPAIR OF JOINTS WITH DEEP EXCAVATION OR SLOPING EDGES)

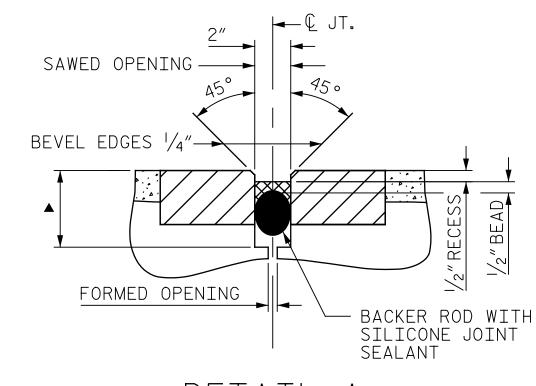
NOTE: RETAIN ALL EXISTING REINFORCING STEEL. BARS CUT OR DAMAGED DURING DEMOLITION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT PRIOR TO PLACING REPAIR CONCRETE OR ELASTOMERIC CONCRETE.

> FOR BRIDGE JOINT DEMOLITION EXCAVATE TO SOUND CONCRETE. IF BRIDGE JOINT DEMOLITION EXTENDS MORE THAN 2"BELOW THE BOTTOM OF THE PLANNED ELASTOMERIC CONCRETE HEADER OR IF CAVING OF CONCRETE OCCURS SUCH THAT A LEVEL SURFACE CANNOT BE ACHIEVED, AS SHOWN, APPROVED REPAIR CONCRETE SHALL BE PLACED IN THE EXCAVATED AREA TO THE SURFACE OF THE DECK

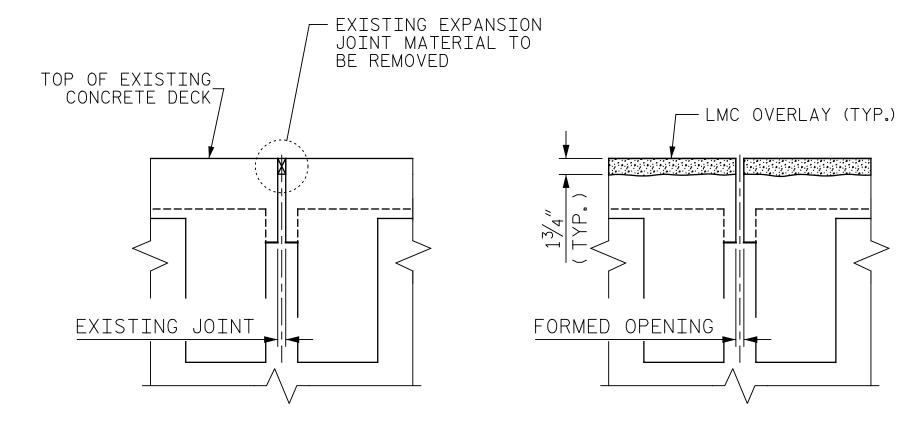
DO NOT INSTALL ELASTOMERIC CONCRETE HEADER UNTIL THE REPAIR CONCRETE HAS ACHIEVED DESIGN STRENGTH AND IS FULLY CURED (REFER TO MANUFACTURER SPECIFICATIONS FOR STRENGTH AND CURE).

THE CONTRACTOR SHALL HAVE ON HAND REPAIR CONCRETE AND MIXING EQUIPMENT PRIOR TO BEGINNING BRIDGE JOINT DEMOLITION.

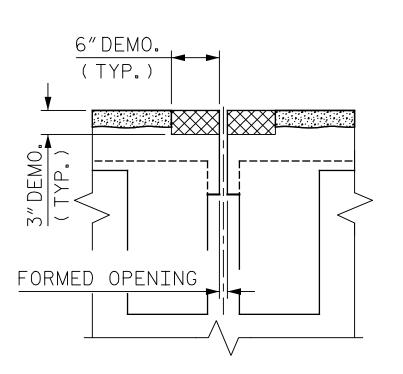
> ▲ SAW CUT SHALL BE 3/4" BELOW THE BOTTOM OF THE BACKER ROD. SEE MANUFACTURER RECOMMENDATIONS



(PROPOSED JOINT WITH SAWED DIMENSIONS)

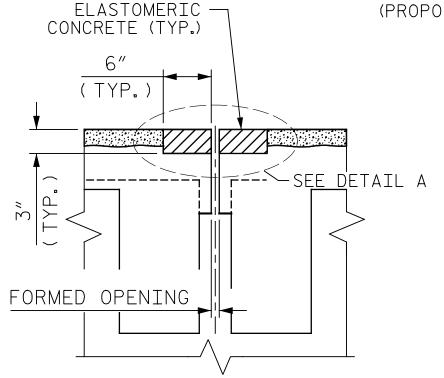




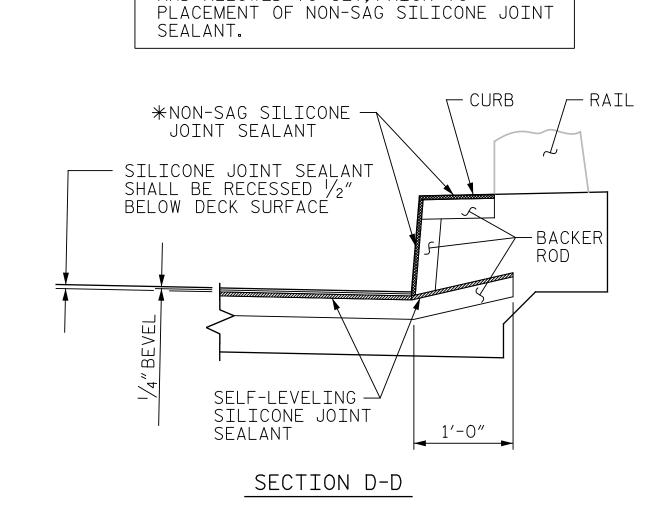


MINIMUM JOINT DEMOLITION

SECTION C-C



PROPOSED JOINT PRE-SAWED DIMENSIONS



EXISTING OPENING (DECK)

OPENING IN DECK

- PROVIDE WATERTIGHT

PLAN

AND ALLOWED TO SET, PRIOR TO

SEAL

SEAL AT END OF JOINT

· C JOINT AT BENT

*SILICONE JOINT SEALANT TO BE PLACED

/--JOINT OPENING IN RAIL

SAWED TO MATCH SAWED

BRIDGE CURB -AND/OR RAIL

SAWED OPENING (DECK)

JOINT SEAL DETAILS AT BENT

PROJECT NO. 14BPR.3.1 JACKSON COUNTY 104 BRIDGE NO.

SHEET 2 OF 2



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SHEET NO

S-96

TOTAL SHEETS

DATE:

Ein Bhil h 4/3/2018

JOINT DETAIL

OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

ELASTOMERIC CONCRETE BENT 1 10.5 CF 10**.**5 CF BENT 2

HYDRO-DEMOLITION OR EXCAVATION OF CONCRETE AT THE EXISTING JOINT SHALL RESULT IN THE BOTTOM OF THE EXCAVATION BEING REASONABLY FLAT AND LEVEL, TO PROVIDE SUFFICIENT SUBSTRATE FOR PLACEMENT AND SUPPORT OF ELASTOMERIC OR REPAIR CONCRETE.DEMOLISH BRIDGE JOINT TO THE NECESSARY DEPTH, SUCH THAT ELASTOMERIC CONCRETE SHALL BE FOUNDED ON CONCRETE OR REPAIR CONCRETE SUBSTRATE, NOT LATEX MODIFIED CONCRETE

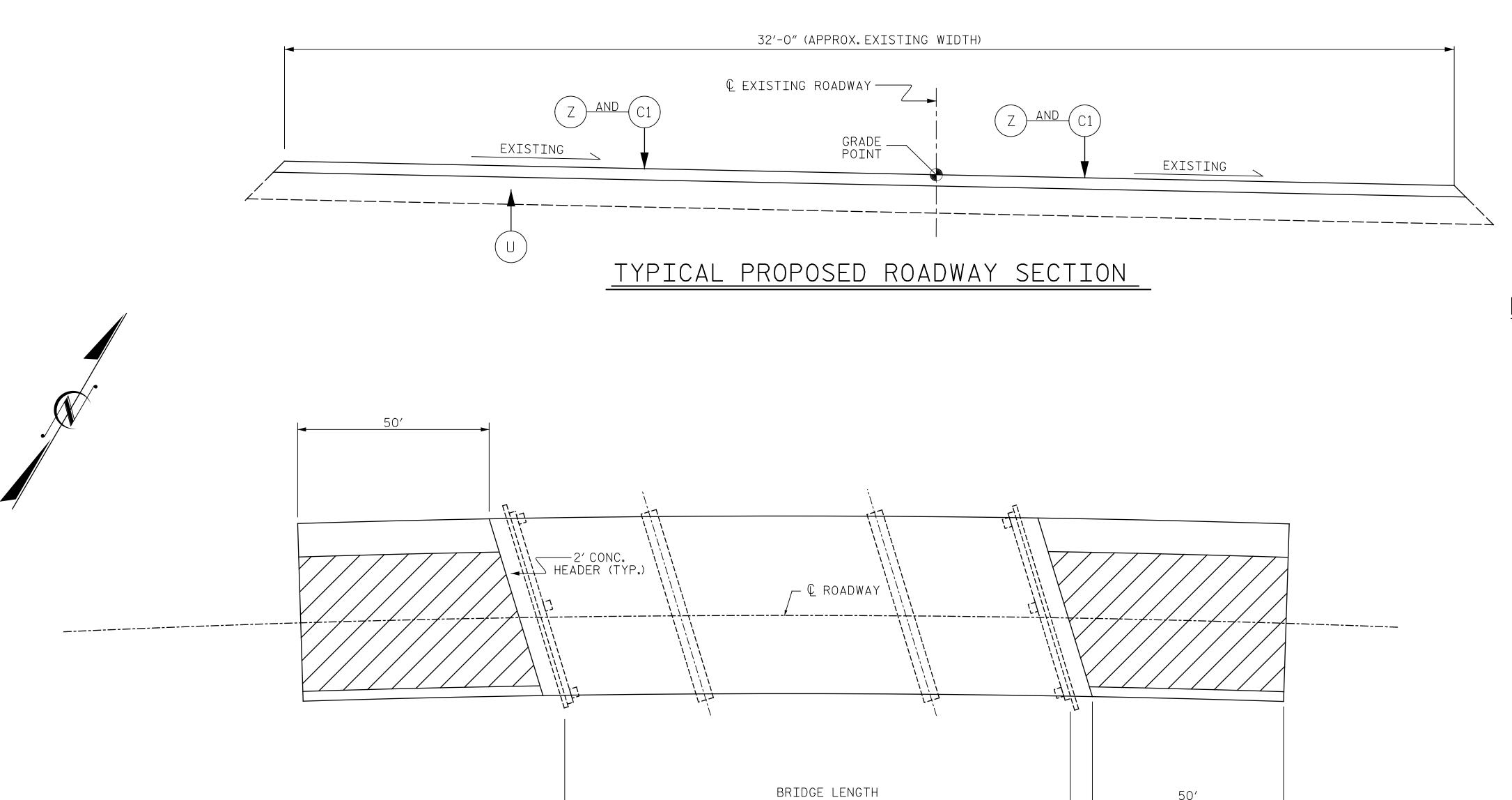
M. SPENCER DATE : 2/2018 DRAWN BY : _ R. WERTMAN DATE : 2/2018 CHECKED BY : .

2610 Wycliff Road **PLANS PREPARED BY:** Gannett Fleming
Raleigh NC 27607-3073
(919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

REVISIONS NO. BY: DATE: BY:

	PAVEMENT SCHEDULE
C1	PROP. VAR. 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 TO EXCEED 1½" IN DEPTH.
U	EXISTING PAVEMENT
Z	ASPHALT MILLING TO 1½" DEPTH.

SUMMARY OF QUANTITIES						
	ESTIMATE	ACTUAL				
INCIDENTAL MILLING	391 SQ. YDS.					
ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C	33 TONS					
ASPHALT BINDER FOR PLANT MIX	2 TONS					



<u>PLAN</u>

NOTES:

INCIDENTAL MILLING - EXISTING APPROACH ASPHALT PAVEMENT TO BE MILLED AS NECESSARY TO ATTAIN MINIMUM 11/2" DEPTH OF NEW ASPHALT PAVEMENT. PROVIDE NEW ASPHALT PAVING THICKNESS TO CREATE A SMOOTH TRANSITION TO THE APPROACH SLABS, AS SHOWN. NEW ASPHALT PAVING THICKNESS MAY EXCEED 11/2" DUE TO SETTLEMENT OF THE EXISTING APPROACH ASPHALT PAVEMENT.

INCIDENTAL MILLING

PROJECT NO. 14BPR.3.1 JACKSON BRIDGE NO. 104



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

APPROACH MILLING AND TYPICAL ROADWAY SECTIONS

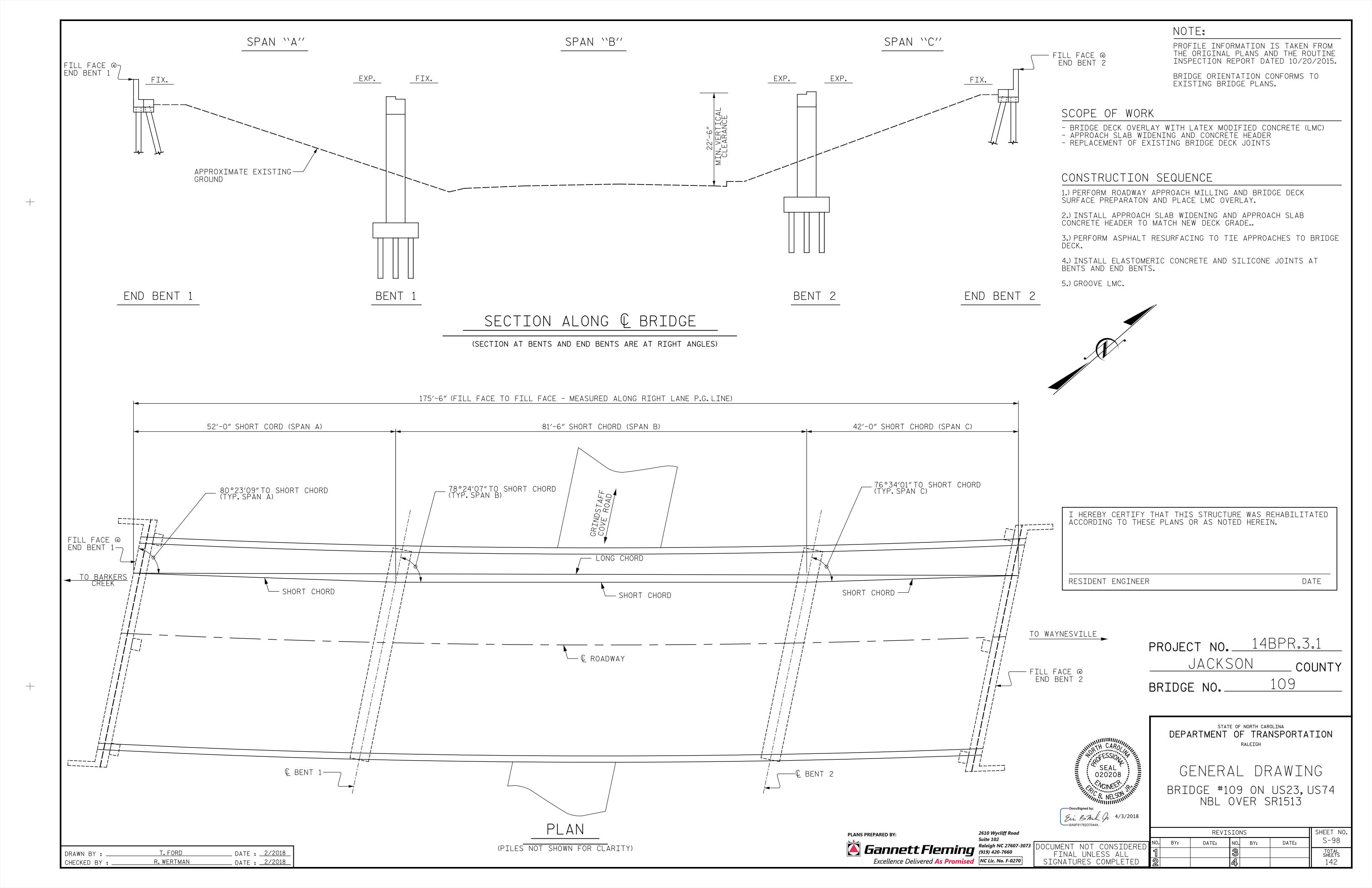
PLANS PREPARED BY:

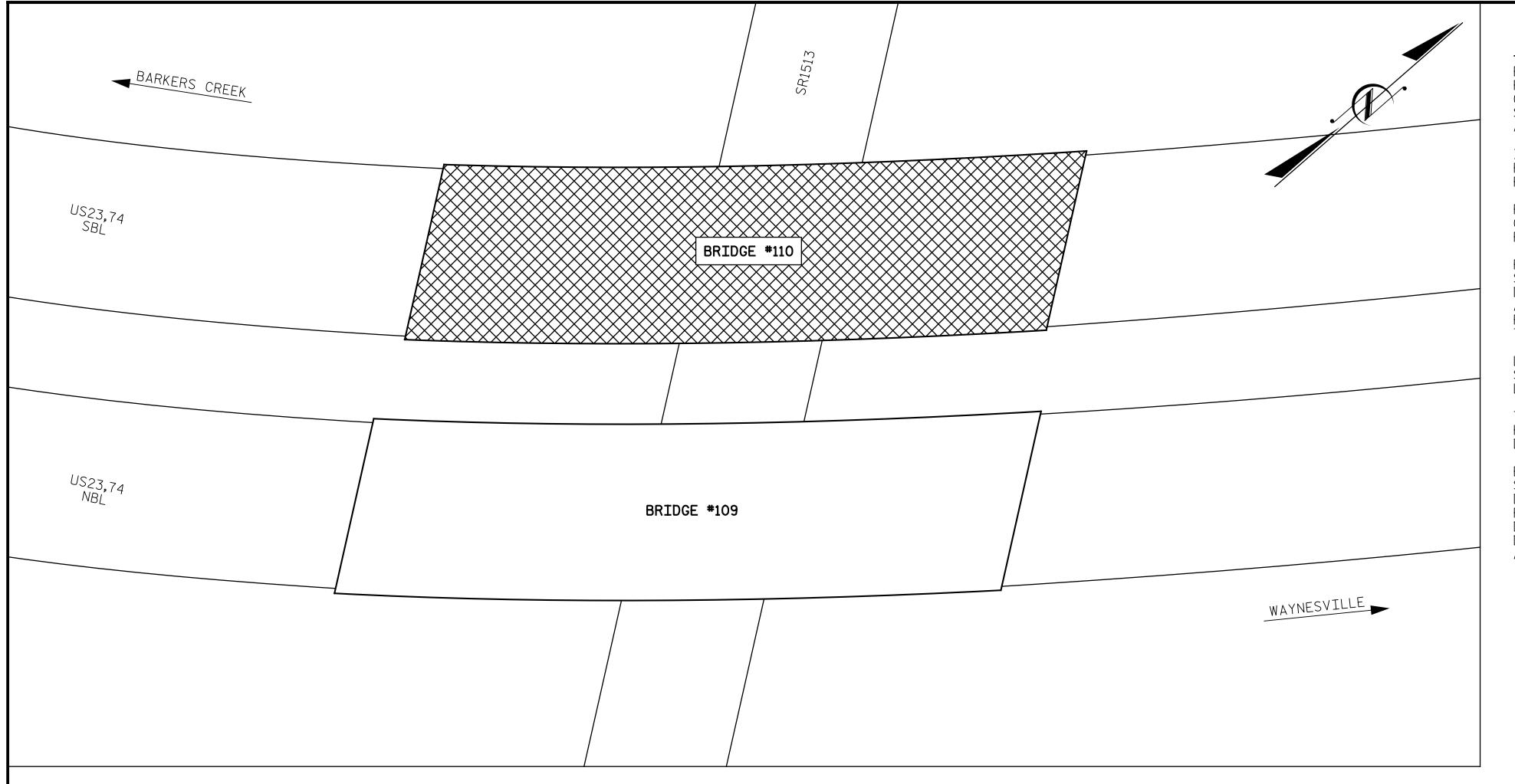
2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

OOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NO REVISIONS S-97 DATE: DATE:

A.B.PRIDGEN _ DATE : <u>02/2018</u> E. NELSON _ DATE : <u>02/2018</u> CHECKED BY : ___





LOCATION SKETCH

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

GENERAL 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.

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

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

ROADWAY MILLING IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN FOR MILLING AND RESURFACING ARE APPROXIMATE. MILL AND RESURFACE AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

LONGITUDINAL CONSTRUCTION JOINTS OF OVERLAYS SHALL BE LOCATED ALONG LANE LINES OR EDGE LINES UNLESS OTHERWISE NOTED ON THE PLANS.

THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THRU OF THE DECK DURING HYDRO-DEMOLITION.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO AND DURING REPAIR OF BRIDGE DECKS. WHEN RAIN IS PREDICTED BETWEEN WORK PERIODS THE CONTRACTOR SHALL REMOVE DECK DRAIN SEAL DEVICES. REINSTALL DECK DRAIN DEVICES PRIOR TO RESUMING DECK REPAIR ACTIVITIES.

DURING CONSTRUCTION, BERMS OR APPROPRIATE MEASURES SHALL BE USED TO CONTROL RUN-OFF OF HYDRO-DEMOLITION WATER FROM FLOWING ACROSS TRAVEL LANES.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR SCARIFYING BRIDGE DECK, HYDRO-DEMOLITION OF BRIDGE DECK, CLASS II SURFACE PREPARATION, AND CLASS III SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

FOR OVERLAY OF BRIDGE DECK WITH LATEX MODIFIED CONCRETE, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR SILICONE JOINT SEALANT, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

GENERAL DRAWING

BRIDGE #109 ON US23, US74

NBL OVER SR1513

PLANS PREPARED BY:

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

Excellence Delivered As Promised

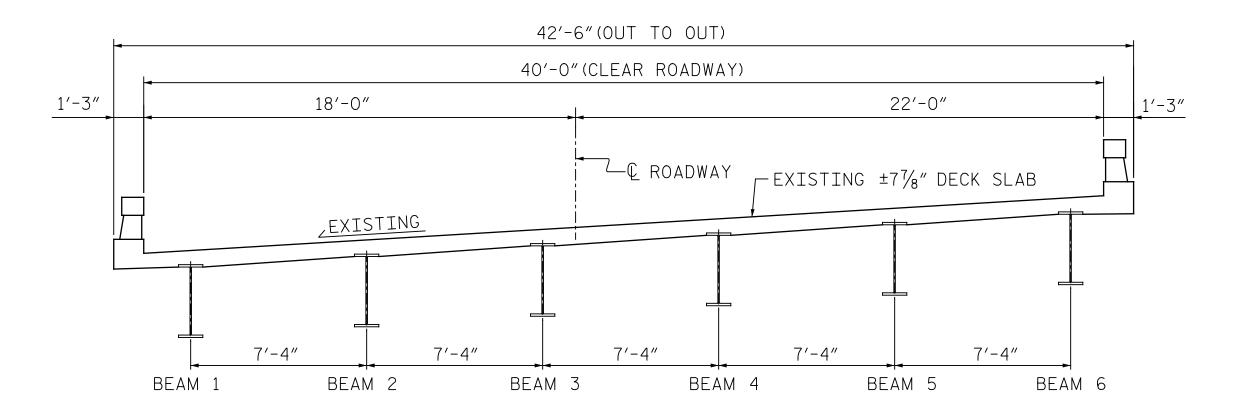
NC Lic. No. F-0270

PA9F91762D7044A...

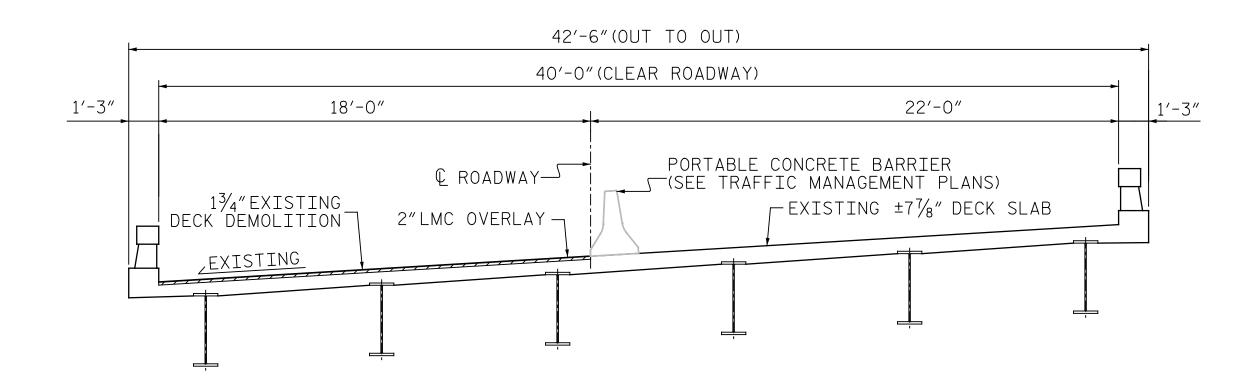
DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

9F91762D7044A						_	-
			REVI:	10I	NS		SHEET NO.
NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-99
UNLESS ALL	1			3			TOTAL SHEETS
JRES COMPLETED	2			<u>a</u> ,			142

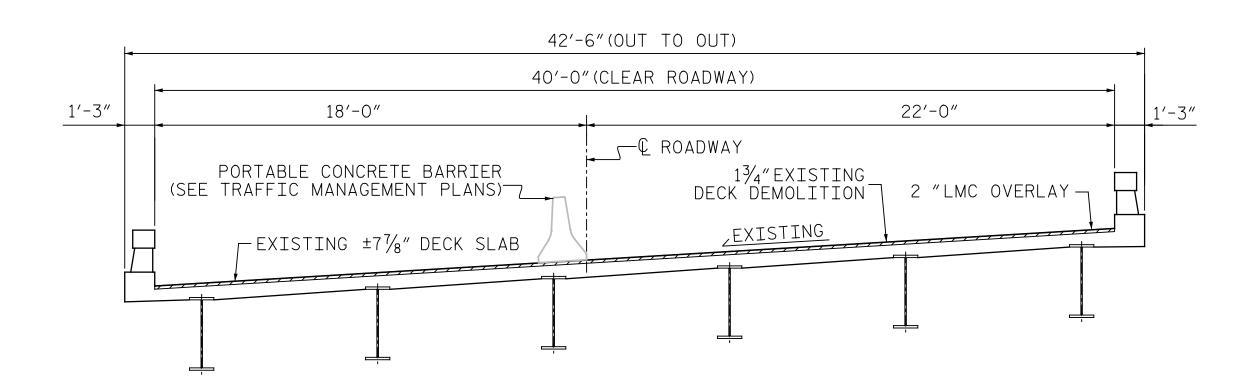
DRAWN BY: ______ M. SPENCER DATE: 2/2018
CHECKED BY: _____ R. WERTMAN DATE: 2/2018



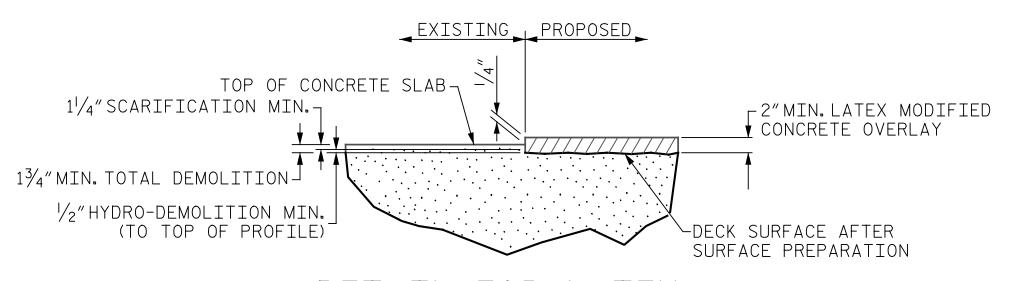
TYPICAL SECTION



TYPICAL SECTION (PROPOSED LEFT LANE)



TYPICAL SECTION (PROPOSED RIGHT LANE)

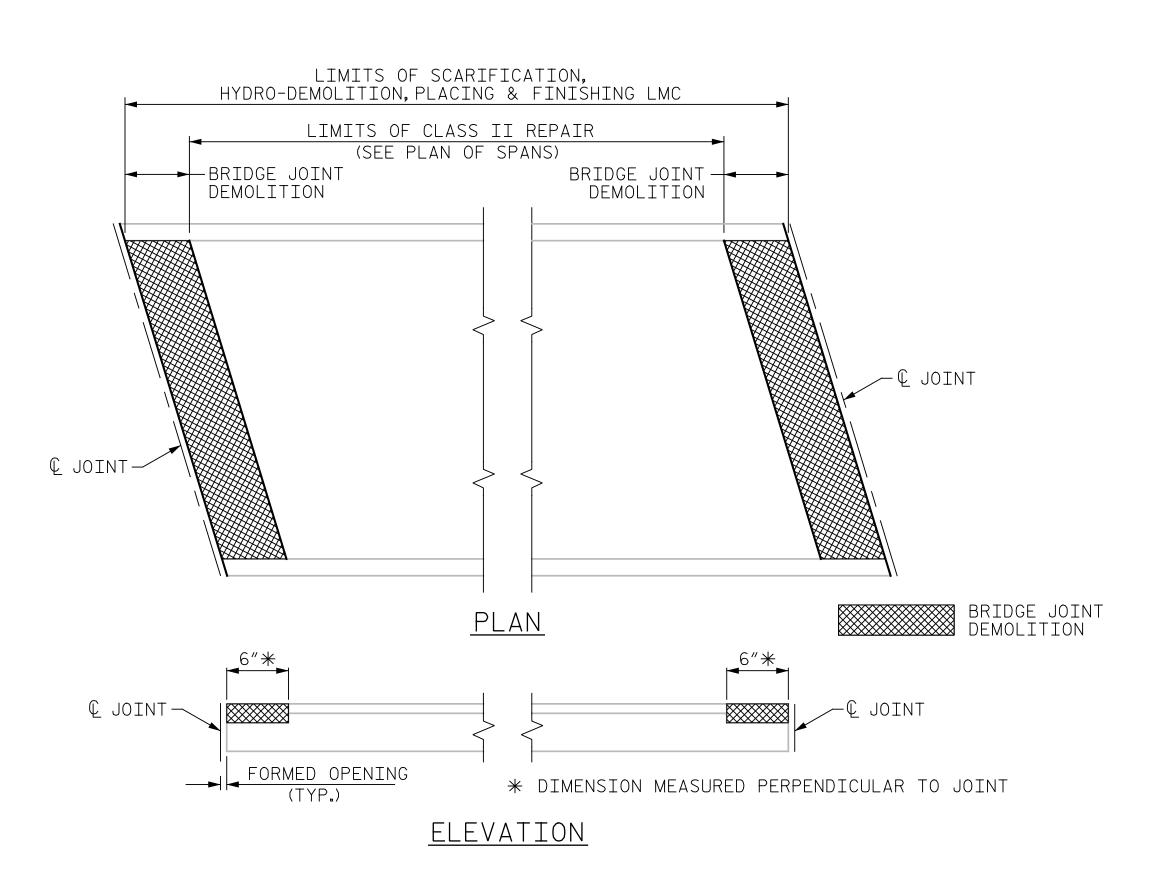


DETAIL FOR LATEX
MODIFIED CONCRETE OVERLAY

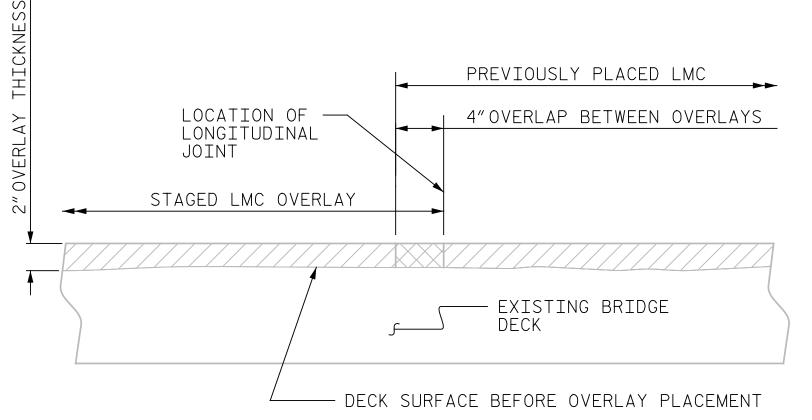
NOTE:

SEE TRANSPORTATION MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGING OF OVERLAY SURFACE PREPARATION AND LMC PLACEMENT.

WHEN PREPARING THE SURFACE FOR AN LMC OVERLAY ADJACENT TO A PREVIOUSLY PLACED LMC STAGE, THE PREVIOUSLY PLACED LMC SHALL BE REMOVED FOR A DISTANCE OF 4 INCHES FROM THE EDGE OF THE LMC. THE SURFACE OF THE NEW STAGE AREA, ALONG WITH THE 4 INCH OVERLAY AREA, SHALL BE PREPARED AS PER THE OVERLAY SURFACE PREPARATION SPECIAL PROVISION. NEW LMC SHALL BE PLACED IN THE 4 INCH OVERLAP AS PART OF THE NEW LMC STAGE PLACEMENT.



PAY LIMITS FOR OVERLAY BID ITEMS



STAGED LMC OVERLAY CONSTRUCTION JOINT

SEAL 020208

NGINEER NELSON MILLIAM

Docusigned by:

En BML A 4/3/2018

DEPARTMENT OF TRANSPORTATION

RALEIGH

TYPICAL SECTION &
OVERLAY DETAILS

PLANS PREPARED BY:

Cannett Fleming

Excellence Delivered As Promised

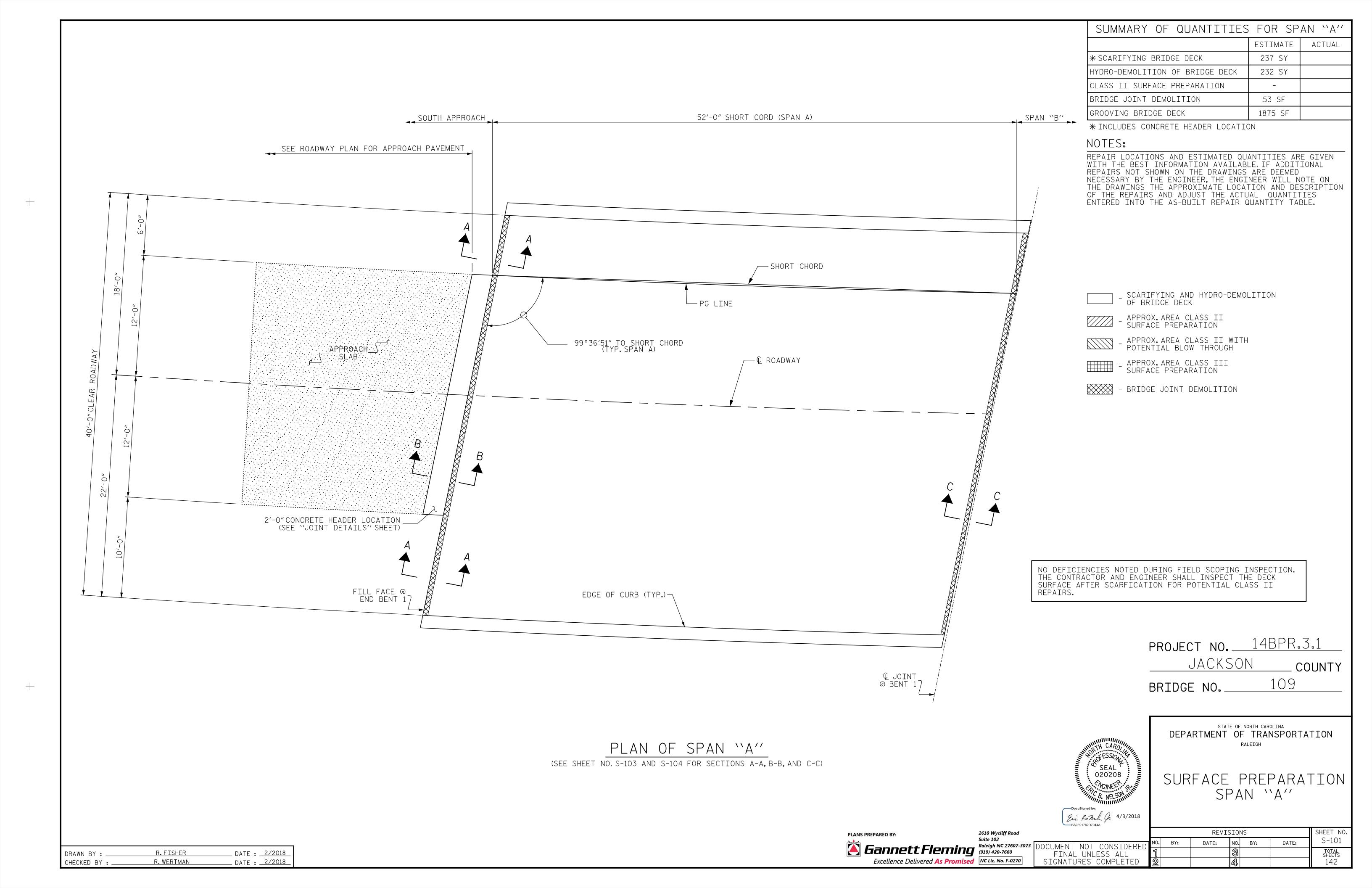
2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

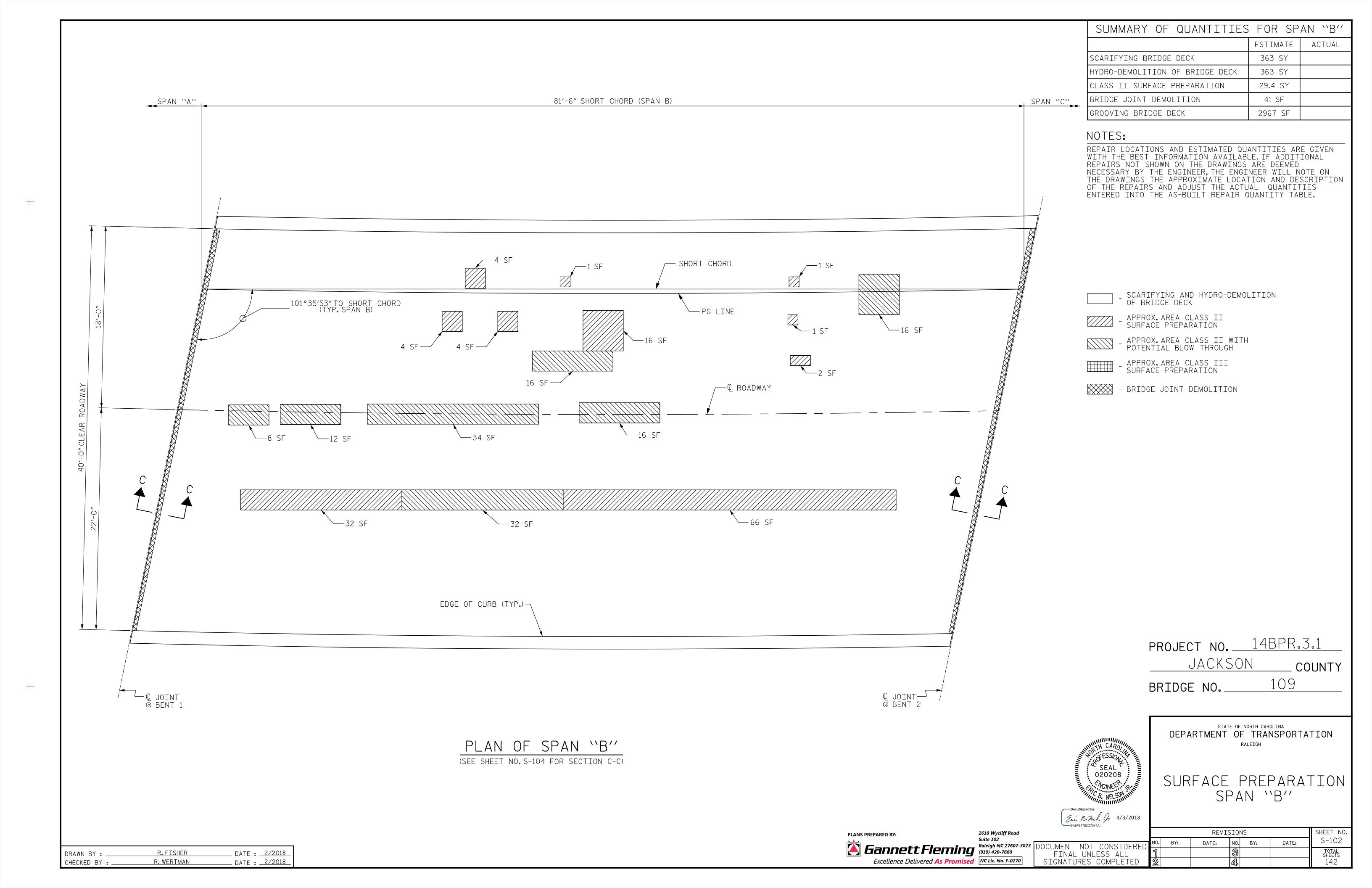
NC Lic. No. F-0270

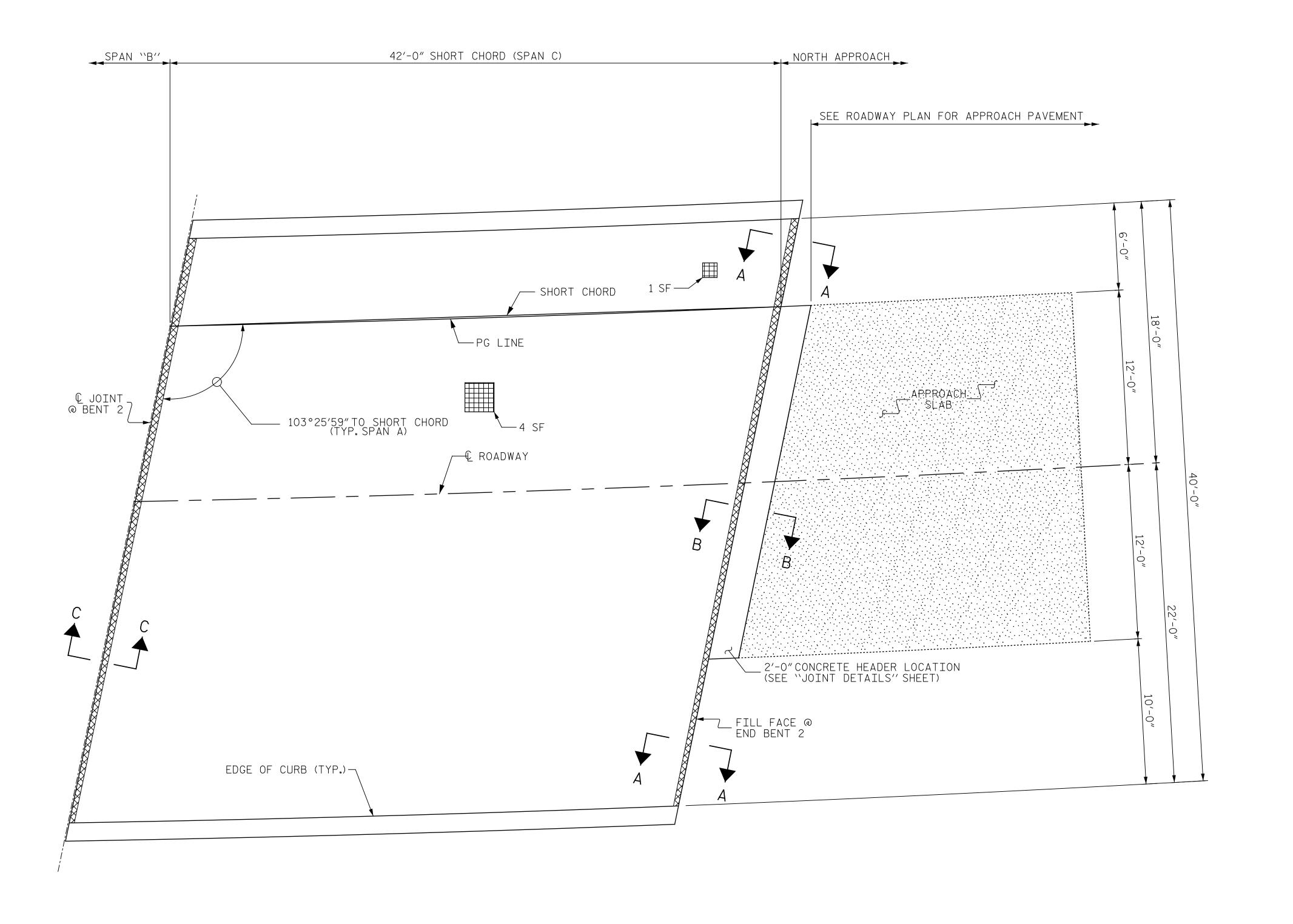
NO	
) NO.	OCUMENT NOT CONSIDERED
′	
Ш	FINAL UNLESS ALL
9	SIGNATURES COMPLETED
اک∎	STOLL OOM LETED

	REVISIONS							
NO.	BY:	DATE:	NO.	BY:	DATE:	S-100		
1			3			TOTAL SHEETS		
2			4			142		

+







PLAN OF SPAN "C"

(SEE SHEET NO.S-103 AND S-104 FOR SECTIONS A-A, B-B, AND C-C)

PLANS PREPARED BY:

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

OCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Ein Bhl Jr 4/3/2018
BA9F91762D7044A... REVISIONS SHEET NO. S-103 NO. BY: DATE: DATE: BY: TOTAL SHEETS

SUMMARY OF QUANTITIES FOR SPAN "C" ESTIMATE ACTUAL * SCARIFYING BRIDGE DECK 192 SY 187 SY HYDRO-DEMOLITION OF BRIDGE DECK CLASS III SURFACE PREPARATION 0.6 SY 54 SF BRIDGE JOINT DEMOLITION GROOVING BRIDGE DECK 1505 SF

* INCLUDES CONCRETE HEADER LOCATION

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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

SCARIFYING AND HYDRO-DEMOLITION OF BRIDGE DECK

APPROX.AREA CLASS II SURFACE PREPARATION

APPROX. AREA CLASS II WITH POTENTIAL BLOW THROUGH

APPROX.AREA CLASS III SURFACE PREPARATION

- BRIDGE JOINT DEMOLITION

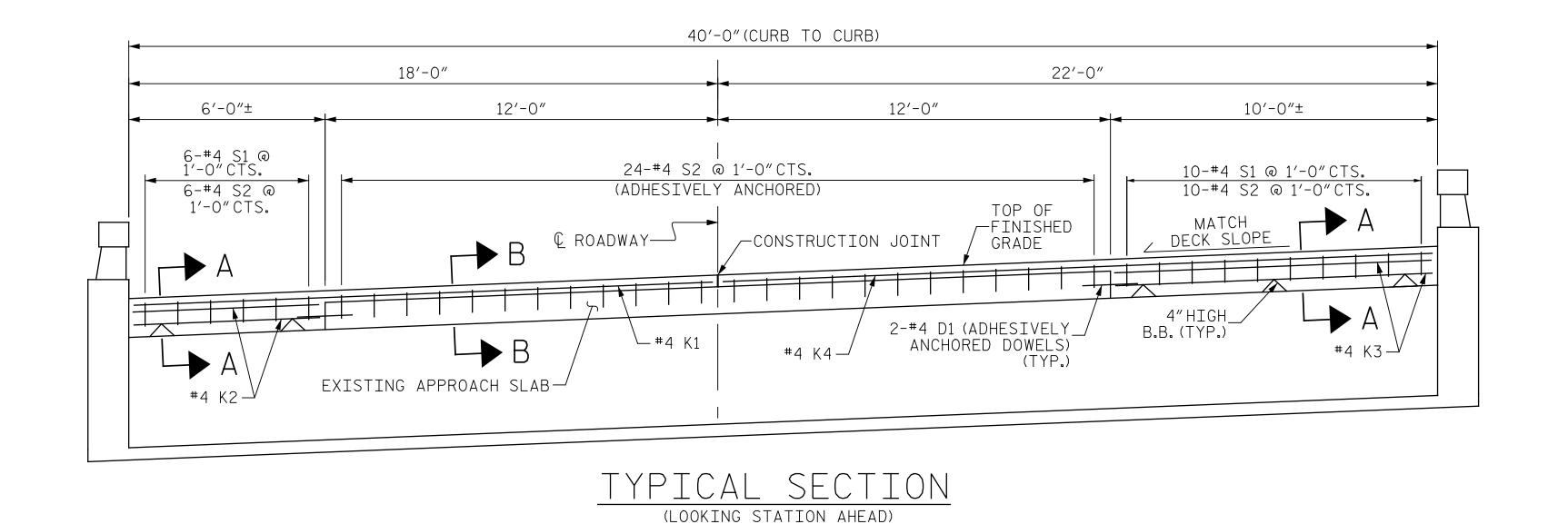
PROJECT NO. 14BPR.3.1 JACKSON _ COUNTY

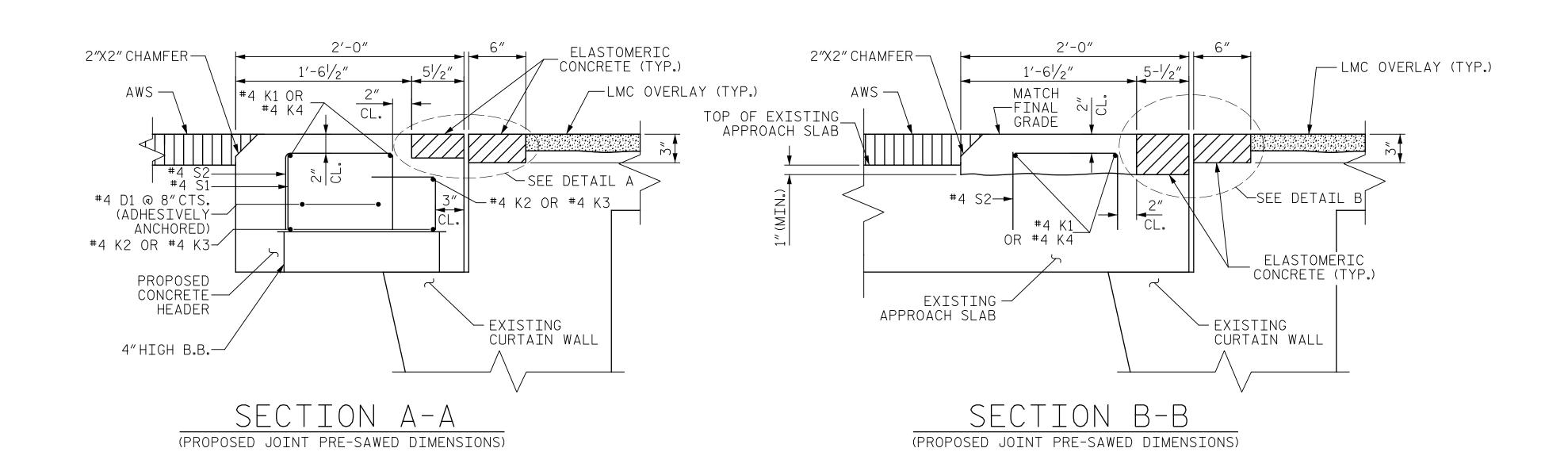
109 BRIDGE NO.____

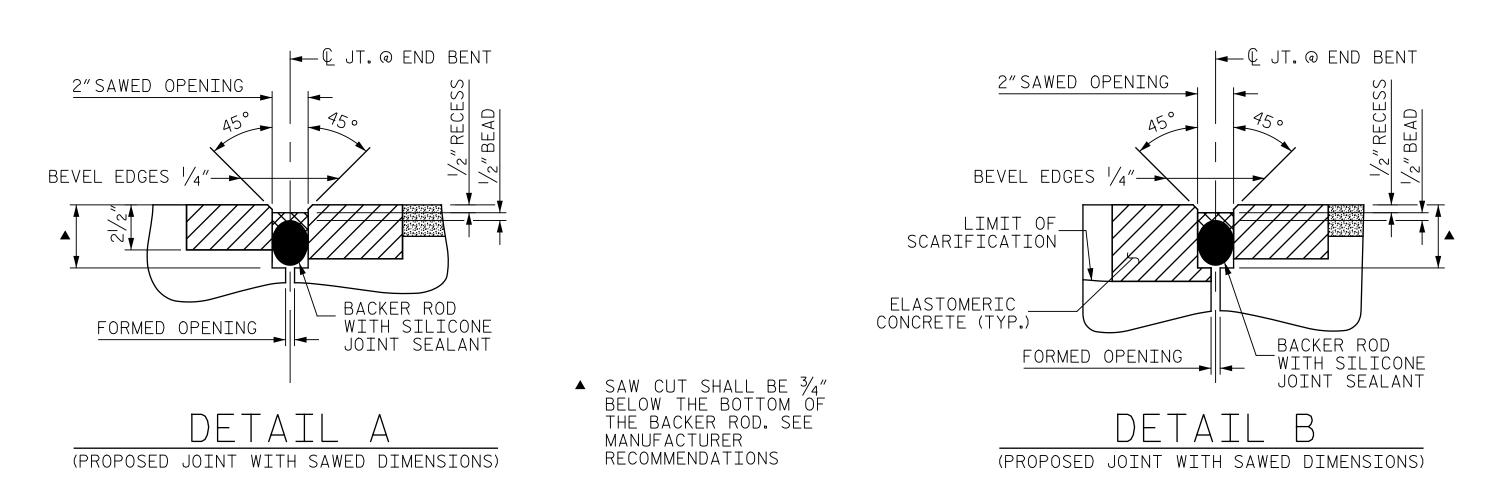
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION SEAL P 020208

SURFACE PREPARATION SPAN "C"

__ DATE : <u>2/2018</u> __ DATE : <u>2/2018</u> R.FISHER DRAWN BY : ___ R. WERTMAN CHECKED BY : .







BAR TYPES

1′-5″

ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL FOR ONE END BENT JOINT

BAR NO. TYPE LENGTH #4 STR 1′-6″ 4 #4 STR 17′-10″ K1 | 2 24 #4 STR K2 | 5′-9″ 12 K3 | #4 STR 9'-9" 20 #4 STR K4 | 22'-0" 30 #4 3′-3″ 35 S1 | 16 1 S2 | 40 | #4 | 2′-5″ 2 65

190 LBS REINFORCING STEEL

CLASS AA CONCRETE 1.9 CY 10.4 CF ELASTOMERIC CONCRETE

NOTES

THE INSTALLED SILICONE JOINT SEALS SHALL BE WATERTIGHT.

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE SILICONE JOINT SEAL IN LIEU OF SAWING THE JOINT.

FOR ADHESIVELY ANCHORED DOWELS, NO FIELD TESTING IS REQUIRED.

FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE ARTICLE 420-13 OF THE STANDARD SPECIFICATIONS.

> PROJECT NO. 14BPR.3.1 JACKSON COUNTY 109 BRIDGE NO.

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOINT DETAILS

SHEET NO

S-104

TOTAL SHEETS

Eir Bhil Jr 4/3/2018
BA9F91762D7044A... REVISIONS NO. BY: DATE: DATE: OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED BY:

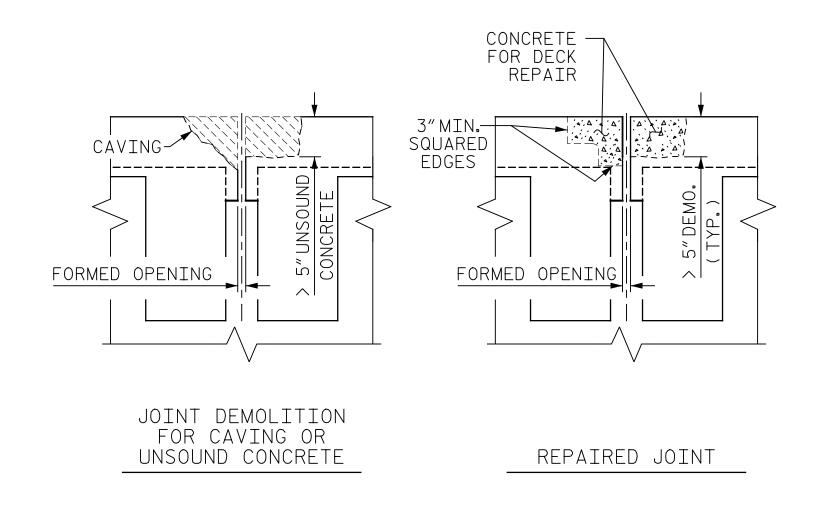
SEAL 020208

PLANS PREPARED BY: Excellence Delivered As Promised NC Lic. No. F-0270

2610 Wycliff Road Suite 102

Gannett Fleming
Raleigh NC 27607-3073
(919) 420-7660

M. SPENCER __ DATE : <u>2/2018</u> DRAWN BY : ___ _ DATE : _ 2/2018 R. WERTMAN CHECKED BY:



CONCRETE FOR DECK REPAIR DETAIL

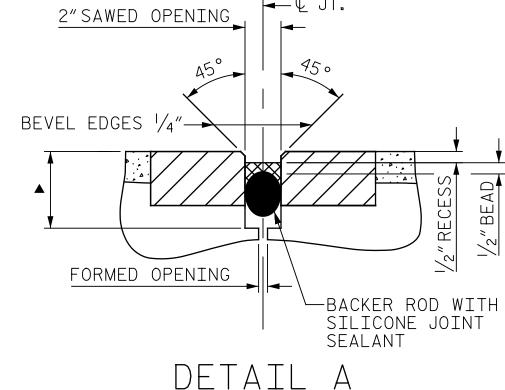
(FOR REPAIR OF JOINTS WITH DEEP EXCAVATION OR SLOPING EDGES)

NOTE: RETAIN ALL EXISTING REINFORCING STEEL. BARS CUT OR DAMAGED DURING DEMOLITION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT PRIOR TO PLACING REPAIR CONCRETE OR ELASTOMERIC

> FOR BRIDGE JOINT DEMOLITION EXCAVATE TO SOUND CONCRETE. IF BRIDGE JOINT DEMOLITION EXTENDS MORE THAN 2"BELOW THE BOTTOM OF THE PLANNED ELASTOMERIC CONCRETE HEADER OR IF CAVING OF CONCRETE OCCURS SUCH THAT A LEVEL SURFACE CANNOT BE ACHIEVED, AS SHOWN, APPROVED REPAIR CONCRETE SHALL BE PLACED IN THE EXCAVATED AREA TO THE SURFACE OF THE DECK

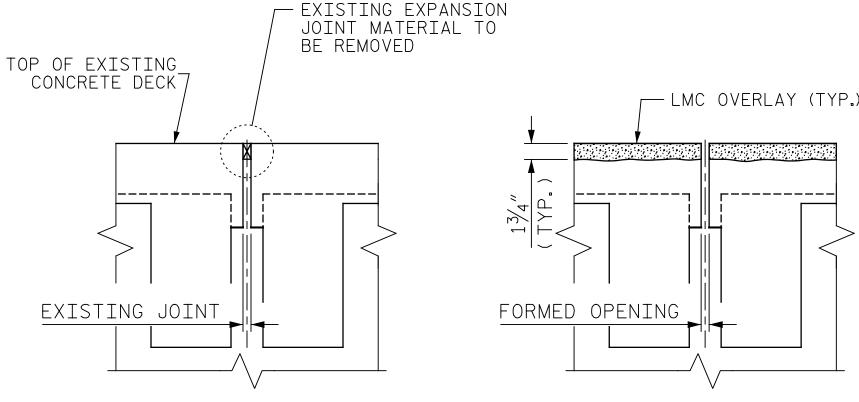
DO NOT INSTALL ELASTOMERIC CONCRETE HEADER UNTIL THE REPAIR CONCRETE HAS ACHIEVED DESIGN STRENGTH AND IS FULLY CURED (REFER TO MANUFACTURER SPECIFICATIONS FOR STRENGTH AND CURE).

THE CONTRACTOR SHALL HAVE ON HAND REPAIR CONCRETE AND MIXING EQUIPMENT PRIOR TO BEGINNING BRIDGE JOINT DEMOLITION.

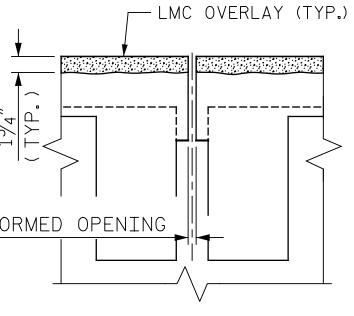


(PROPOSED JOINT WITH SAWED DIMENSIONS)

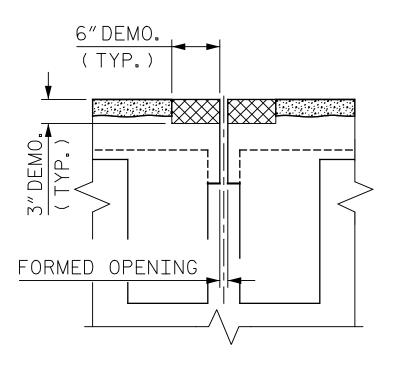
▲ SAW CUT SHALL BE 3/4" BELOW THE BOTTOM OF THE BACKER ROD. SEE MANUFACTURER RECOMMENDATIONS



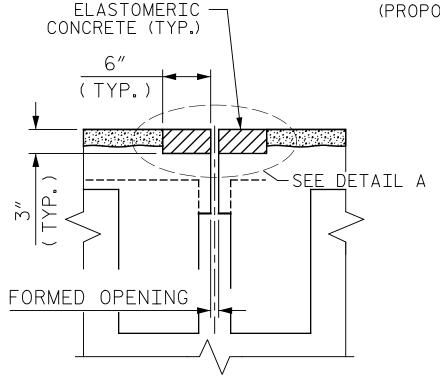
EXISTING



PROPOSED LMC OVERLAY



MINIMUM JOINT DEMOLITION



PROPOSED JOINT PRE-SAWED DIMENSIONS

SELF-LEVELING Y SILICONE JOINT 1'-0" SEALANT SECTION D-D

EXISTING OPENING (DECK

OPENING IN DECK

- PROVIDE WATERTIGHT

SEAL

*NON-SAG SILICONE -

JOINT SEALANT

SILICONE JOINT SEALANT SHALL BE RECESSED 1/2"

BELOW DECK SURFACE

SEALANT.

SEAL AT END OF JOINT

 $-\mathbb{Q}$ joint at bent

*SILICONE JOINT SEALANT TO BE PLACED

PLACEMENT OF NON-SAG SILICONE JOINT

CURB

/ RAIL

-BACKER

ROD

PLAN

AND ALLOWED TO SET, PRIOR TO

/-- JOINT OPENING IN RAIL SAWED TO MATCH SAWED

BRIDGE CURB -

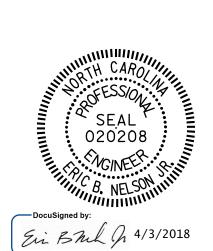
AND/OR RAIL

SAWED OPENING (DECK)

JOINT SEAL DETAILS AT BENT

PROJECT NO. 14BPR.3.1 JACKSON COUNTY 109 BRIDGE NO.

SHEET 2 OF 2



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOINT DETAIL

SHEET NO REVISIONS S-105 NO. BY: DATE: DATE: BY: TOTAL SHEETS

SECTION C-C

ELASTOMERIC	CONCRETE
BENT 1	10.3 CF
BENT 2	10.3 CF

HYDRO-DEMOLITION OR EXCAVATION OF CONCRETE AT THE EXISTING JOINT SHALL RESULT IN THE BOTTOM OF THE EXCAVATION BEING REASONABLY FLAT AND LEVEL, TO PROVIDE SUFFICIENT SUBSTRATE FOR PLACEMENT AND SUPPORT OF ELASTOMERIC OR REPAIR CONCRETE. DEMOLISH BRIDGE JOINT TO THE NECESSARY DEPTH, SUCH THAT ELASTOMERIC CONCRETE SHALL BE FOUNDED ON CONCRETE OR REPAIR CONCRETE SUBSTRATE, NOT LATEX MODIFIED CONCRETE

> **PLANS PREPARED BY:** Excellence Delivered As Promised NC Lic. No. F-0270

Gannett Fleming
Raleigh NC 27607-3073
(919) 420-7660

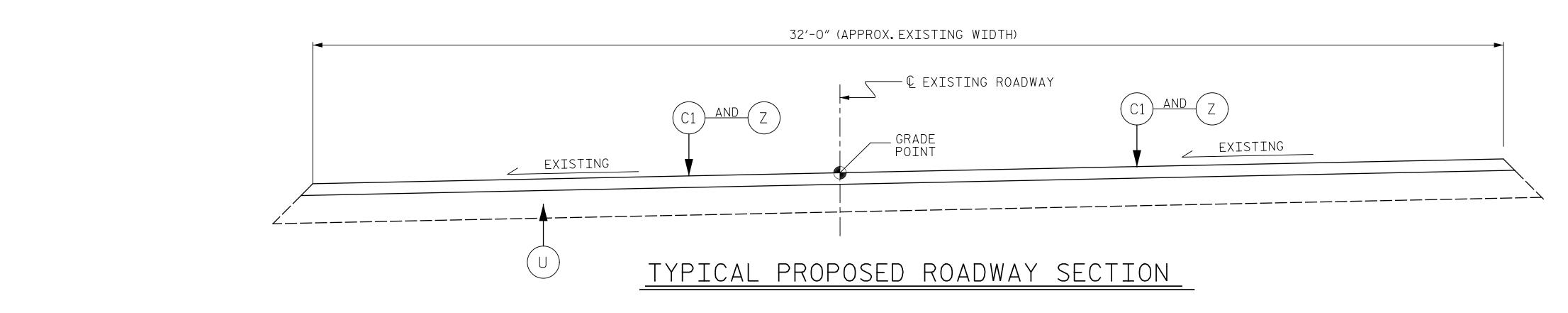
2610 Wycliff Road

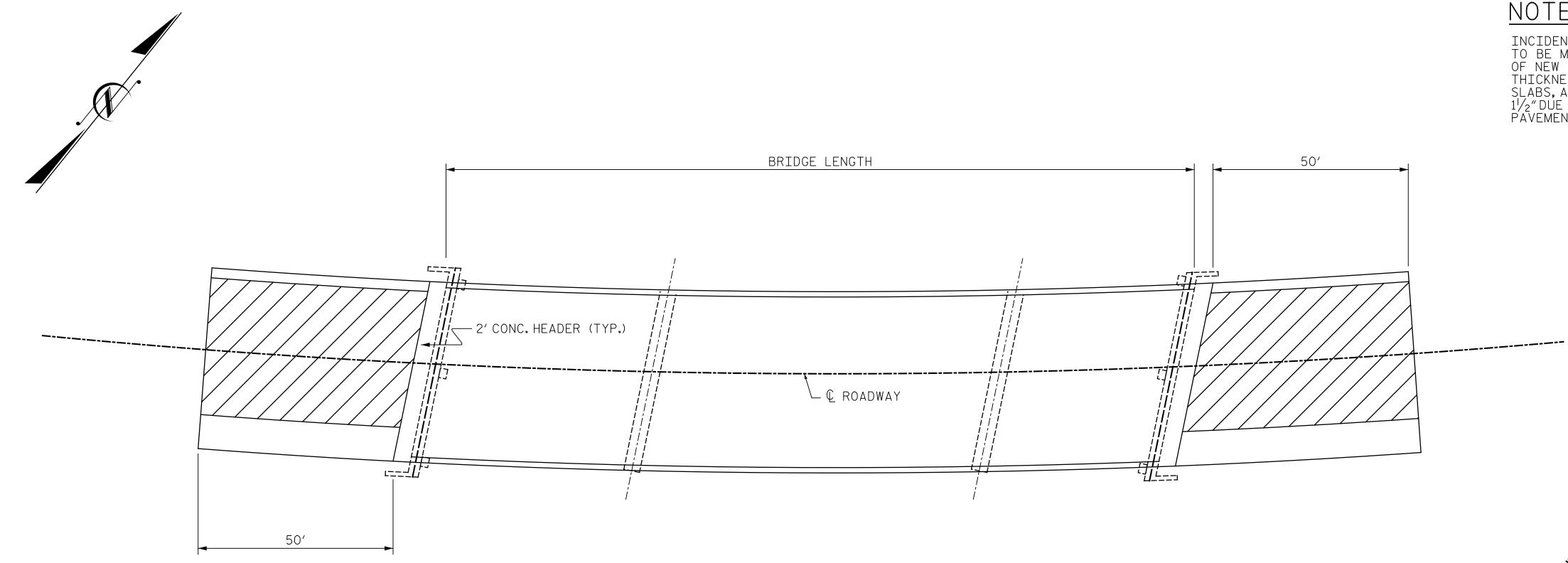
OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

M. SPENCER DATE : 2/2018 DRAWN BY : _ R. WERTMAN DATE : 2/2018 CHECKED BY:

	PAVEMENT SCHEDULE
C1	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ, YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
U	EXISTING PAVEMENT
Z	ASPHALT MILLING TO 1½" DEPTH.

SUMMARY OF QUANTITIES						
	ESTIMATE	ACTUAL				
INCIDENTAL MILLING	379 SQ. YDS.					
ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C	32 TONS					
ASPHALT BINDER FOR PLANT MIX	2 TONS					





<u>PLAN</u>

NOTES:

INCIDENTAL MILLING - EXISTING APPROACH ASPHALT PAVEMENT TO BE MILLED AS NECESSARY TO ATTAIN MINIMUM $1\frac{1}{2}$ " DEPTH OF NEW ASPHALT PAVEMENT. PROVIDE NEW ASPHALT PAVING THICKNESS TO CREATE A SMOOTH TRANSITION TO THE APPROACH SLABS, AS SHOWN. NEW ASPHALT PAVING THICKNESS MAY EXCEED $1\frac{1}{2}$ " DUE TO SETTLEMENT OF THE EXISTING APPROACH ASPHALT PAVEMENT.

INCIDENTAL MILLING

PROJECT NO. 14BPR.3.1 JACKSON COUNTY

BRIDGE NO. 109

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

APPROACH MILLING AND TYPICAL ROADWAY SECTIONS

PLANS PREPARED BY:

Cannett Fleming

Excellence Delivered As Promised

2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660

NC Lic. No. F-0270

OCUMENT NOT CONSIDE FINAL UNLESS ALL SIGNATURES COMPLETE

DocuSigned by: Ein Bhl h 4/3/2018 BA9F91762D7044A							
			REVI:	OIS	NS		SHEET NO
MENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-106
FINAL UNLESS ALL	1			3			TOTAL SHEETS
SNATURES COMPLETED	2			4			142

A.B.PRIDGEN _ DATE : <u>02/2018</u> E. NELSON _ DATE : <u>02/2018</u> CHECKED BY : ___