



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

November 9, 2023

Addendum No. 1

RE: Contract # C204902
WBS # 15BPR.102.3
STATE FUNDED
New Hanover County
CAPE FEAR MEMORIAL BRIDGE.

November 21, 2023 Letting

To Whom It May Concern:

Reference is made to the proposal and plans furnished to you on this project.

The following revisions have been made to the Traffic Management Plans.

Sheet No.	Revision
TMP-1, TMP-3, TMP-6 thru TMP-10	TMP plans revised to close the Eastbound side of the bridge first.

Please void the above listed Sheets in your Plans and staple the revised Sheets thereto.

The following revisions have been made to the Structures Plans.

Sheet No.	Revision
S-5, S-6, S-15, S-17	Revised to indicate that the eastbound side of the bridge grid deck and structural steel is to be done first and to indicate that temporary bracing must be installed to facilitate opening the bridge while Stringers S2, S13, S7, and S8 are removed.

Please void the above listed Sheets in your Plans and staple the revised Sheets thereto.

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads “Includes Addendum No. 1 Dated 11-09-2023”.
Table of Contents	Updated to reflect changes below.
G-3 thru G-5	The Project Special Provision entitled CONTRACT TIME AND LIQUIDATED DAMAGES has been replaced with new Project Special Provision entitled CONTRACT TIME, LIQUIDATED DAMAGES AND BONUS CLAUSE.
BP-37 (New)	The Unit Project Special Provision entitled NOTES TO CONTRACTOR has been added to the Structures Unit Project Special Provisions.

Please void the above listed existing Pages in your proposal and staple the revised Pages thereto.

Staple New Page BP-37 after existing Page BP-27 in your proposal.

On the item sheets the following pay item revisions have been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0009-4465000000-N 1160	TEMPORARY CRASH CUSHIONS	1 EA	2 EA
0012-4485000000-E 1170	PORTABLE CONCRETE BARRIER	60 LF	120 LF

The Contractor’s bid must include these pay item revisions.

The electronic bidding file has been updated to reflect these revisions. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:

 F81B6038A47A442...

Ronald E. Davenport, Jr., PE
 State Contract Officer

RED/cms

Attachments

cc: Mr. Boyd Tharrington, PE
Mr. D. Chad Kimes, PE
Mr. Ken Kennedy, PE
Mr. Malcolm Bell
Project File (2)

Mr. Forrest Dungan, PE
Ms. Jaci Kincaid
Mr. Jon Weathersbee, PE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 11-09-2023

DATE AND TIME OF BID OPENING: **Nov 21, 2023 AT 02:00 PM**

CONTRACT ID C204902
WBS 15BPR.102.3

FEDERAL-AID NO. STATE FUNDED
COUNTY NEW HANOVER
T.I.P NO.
MILES 0.575
ROUTE NO.
LOCATION CAPE FEAR MEMORIAL BRIDGE.

TYPE OF WORK BRIDGE PRESERVATION

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

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ROADWAY R-1

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Page 1-14, Article 102-8 PREPARATION AND SUBMISSION OF BIDS, lines 30-31, delete and replace the first paragraph with the following:

Prior to submitting a bid on a project, the bidder shall sign up on the *Interested Parties List* in conformance with Article 102-3. The bidder shall submit a unit or lump sum price for every item in the proposal other than items that are authorized alternates to those items for which a bid price has been submitted.

LIABILITY INSURANCE:

(5-16-23)

107

SP1 G05

Revise the *2018 Standard Specifications* as follows:

Page 1-64, Article 107-15 LIABILITY INSURANCE, replace the first sentence with the following:

The Contractor shall at its sole cost and expense obtain and furnish to the Department an original standard Association for Cooperative Operations Research and Development (ACORD) certificate of liability insurance evidencing commercial general liability with a limit for bodily injury and property damage in the amount of \$5,000,000 per occurrence and \$5,000,000 general aggregate, covering the Contractor from claims or damages for bodily injury, personal injury, or for property damages that may arise from operating under the contract by the employees and agents of the Contractor.

CONTRACT TIME, LIQUIDATED DAMAGES AND BONUS CLAUSE:

(7-20-99) (Rev. 11-07-23)

108

SP1 G06

The date of availability for this contract is **January 3, 2024**, except that work in jurisdictional waters and wetlands shall not begin until a meeting between the DOT, Regulatory Agencies, and the Contractor is held as stipulated in the permits contained elsewhere in this proposal. This delay in availability has been considered in determining the contract time for this project.

The completion date for this contract is **June 28, 2024**.

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **Six Thousand Dollars (\$ 6,000.00)** per calendar day.

The Department desires that this contract be completed by the completion date of **June 28, 2024** and that the Contractor pursue the work with such labor, equipment and materials as necessary to ensure that this completion date will be met without regard to time extensions and time reliefs provided for in the Specifications. Therefore, as full compensation for all extra costs involved, the Department agrees to pay as a bonus, the sum of **Two Hundred Thousand Dollars (\$ 200,000.00)** to the Contractor for satisfactorily completing this contract on or prior to **June 28, 2024**. Should

the Contractor fail to complete this contract by the completion date, then normal time extension and time reliefs provided in the Specifications will apply and no bonus will be allowed.

In addition to the bonus listed above, the Department desires that this contract be completed by the earlier date of **May 23, 2024** and that the Contractor pursue the work with such labor, equipment and materials as necessary to ensure that this earlier completion date will be met without regard to time extensions and time reliefs provided for in the Specifications. Therefore, as full compensation for all extra costs involved, the Department agrees to pay as an additional bonus, the sum of **Three Hundred Thousand Dollars (\$ 300,000.00)** to the Contractor for satisfactorily completing this contract on or prior to **May 23, 2024**. Bonus payment shall be limited to **Five Hundred Thousand (\$ 500,000.00)** maximum for this project.

INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SP1 G14 A

The Contractor shall complete the required work of installing, maintaining, and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow a lane of traffic on **-L- (US 76, US 421, BUS 17)** during the following time restrictions:

DAY AND TIME RESTRICTIONS

Monday thru Sunday, 5:00 AM to 7:00 PM

In addition, the Contractor shall not close or narrow a lane of traffic on **-L- (US 76, US 421, BUS 17)**, detain and/or alter the traffic flow on or during holidays, holiday weekends, special events, or any other time when traffic is unusually heavy, including the following schedules:

HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS

1. For **unexpected occurrence** that creates unusually high traffic volumes, as directed by the Engineer.
2. For **New Year's Day**, between the hours of **5:00 AM** December 31st and **7:00 PM** January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until **7:00 PM** the following Tuesday.
3. For **Memorial Day**, between the hours of **5:00 AM** Friday and **7:00 PM** Tuesday.
4. For **Independence Day**, between the hours of **5:00 AM** the day before Independence Day and **7:00 PM** the day after Independence Day.

If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **5:00 AM** the Thursday before Independence Day and **7:00 PM** the Tuesday after Independence Day.

5. For **Labor Day**, between the hours of **5:00 AM** Friday and **7:00 PM** Tuesday.
6. For **Thanksgiving**, between the hours of **5:00 AM** Tuesday and **7:00 PM** Monday.
7. For **Christmas**, between the hours of **5:00 AM** the Friday before the week of Christmas Day and **7:00 PM** the following Tuesday after the week of Christmas Day.

8. For **North Carolina Azalea Festival Event**, between the hours of **5:00 AM** the **Tuesday** before the **Azalea Festival** and **7:00 PM** the **Monday** after the **Azalea Festival**.
9. For **Wilmington NC Riverfest**, between the hours of **5:00 AM** the **Friday** before the weekend of the **Wilmington NC Riverfest** and **7:00 PM** the **Monday** after the weekend of the **Wilmington NC Riverfest**.

Holidays and holiday weekends shall include New Year's, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. The Contractor shall schedule his work so that lane closures will not be required during these periods, unless otherwise directed by the Engineer.

The time of availability for this intermediate contract work shall be the time the Contractor begins to install all traffic control devices for lane closures according to the time restrictions listed herein.

The completion time for this intermediate contract work shall be the time the Contractor is required to complete the removal of all traffic control devices for lane closures according to the time restrictions stated above and place traffic in the existing traffic pattern.

The liquidated damages are **Two Thousand Five Hundred Dollars (\$ 2,500.00)** per fifteen (15) minute time period. **The liquidated damages associated with Day and Time Restrictions will not apply to -L- (US 76, US 421, BUS 17) when lane closures are required by Steps #4 thru #10 of the Phasing, as shown on Sheet TMP-3. The liquidated damages associated with Holiday and Holiday Weekend Lane Closure Restrictions shall apply throughout the entire duration of the project.**

INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:

(6-18-13)

108

SP1 G14 L

The Contractor shall complete the work required of **Steps #4 thru #7** as shown on Sheet **TMP-3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is **the date the Contractor elects to begin work.**

The completion date for this intermediate contract time is **April 1, 2024.**

The liquidated damages are **Five Thousand Dollars (\$ 5,000.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SP1 G14 F

The Contractor shall complete the work required of **Step #5A** as shown on Sheet **TMP-3** and shall place and maintain traffic on same.

The time of availability for this intermediate contract time is the **Friday at 7:00 PM** that the Contractor elects to begin the work.

The completion time for this intermediate contract time is the following **Monday at 5:00 AM** after the time of availability.

The liquidated damages are **Five Thousand Dollars (\$ 5,000.00)** per fifteen (15) minute time period.

BP-37

Project 15BPR.102.3

New Hanover County

NOTES TO CONTRACTOR**(SPECIAL)**

Not all structural steel and grid deck materials will be completed and delivered at the same time. Deliveries will be made as fabrication of portions of the materials is completed. Delivery of structural steel is currently scheduled to begin approximately January 22, 2024, with the final delivery approximately 10 weeks later. Deliveries for steel grid deck are on a similar schedule. It is anticipated that the first deliveries of the structural steel and grid deck will occur no later than January 29, 2024, and the final deliveries will be made no later than April 15, 2024.

In general, structural steel and grid deck are expected to be delivered to the bridge site. Some temporary storage of material can be allowed on the fixed bridge approach spans when those locations are subject to lane and directional closures. Depending on the planned schedule of work and analysis of the approach spans, limits on the amount of storage will be required. The Contractor must submit for review and approval his anticipated work schedule and anticipated staging of materials on the fixed bridge approach spans prior to storing any materials on the bridge deck. If additional off-bridge storage or lay down area is required, some capacity is available beneath the bridge on the east side and at the NCDOT Bridge Maintenance yard in Leland, NC. Depending on the schedule of work, available storage capacity, and storage weight limits on the approach spans at the time of a particular delivery, the Contractor shall coordinate with the structural steel or grid deck fabricators to determine the exact delivery location. For materials delivered to the lay down and storage area beneath the east end of the bridge and the NCDOT Bridge Maintenance yard in Leland, NC, the Contractor is required to transport materials from those locations to the bridge site as needed.

Working Drawings are required for any Structural Steel provided by the Contractor, which includes the finger plate shims and may include the floorbeam stiffeners, if the Contractor chooses to remove a different height of the stiffeners than is shown in the suggested details. Working Drawings are required for span balancing plates to be used by the Contractor.

County: NEW HANOVER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	1,291 SF		
0003	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	124 SF		
0004	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	102 SF		
0005	4415000000-N	1115	FLASHING ARROW BOARD	4 EA		
0006	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	13 EA		
0007	4430000000-N	1130	DRUMS	150 EA		
0008	4445000000-E	1145	BARRICADES (TYPE III)	80 LF		
0009	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	2 EA		
0010	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	1 EA		
0011	4480000000-N	1165	TMA	4 EA		
0012	4485000000-E	1170	PORTABLE CONCRETE BARRIER	120 LF		
0013	4500000000-E	1170	REMOVE AND RESET PORTABLE CONCRETE BARRIER	60 LF		
0014	4510000000-N	1190	LAW ENFORCEMENT	240 HR		
0015	4516000000-N	1180	SKINNY DRUM	7 EA		
0016	4589000000-N	SP	GENERIC TRAFFIC CONTROL ITEM STEEL TEMPORARY BARRIER RAIL	Lump Sum	L.S.	
0017	4775000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (6") (IV)	800 LF		

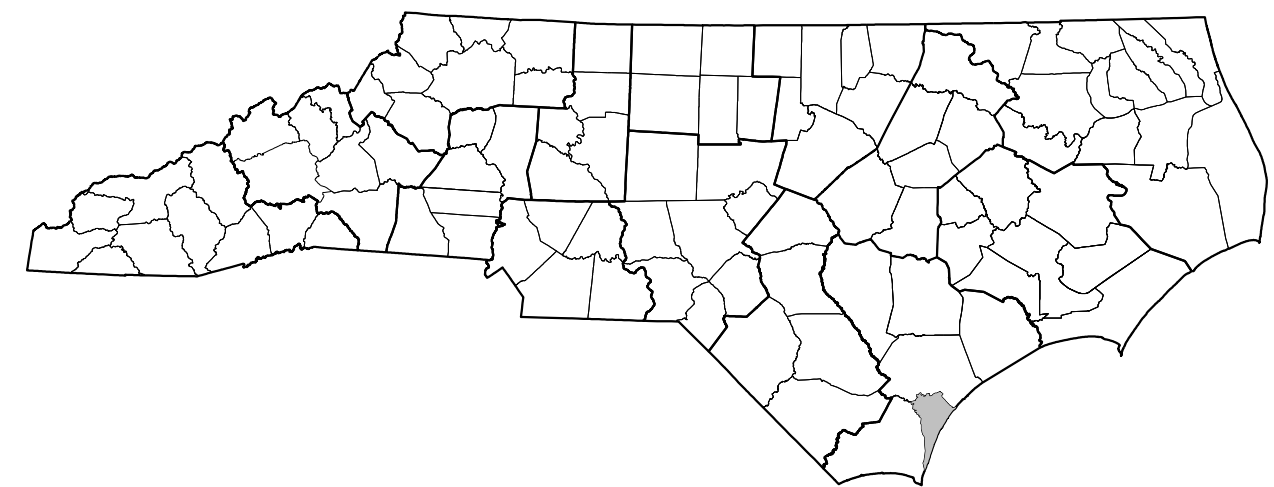
County: NEW HANOVER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	2,000 LF		
0019	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	800 LF		
0020	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	200 LF		
0021	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	10 EA		
0022	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
STRUCTURE ITEMS						
0023	8860000000-N	SP	GENERIC STRUCTURE ITEM REPLACEMENT OF STEEL GRID DECK	Lump Sum	L.S.	
0024	8860000000-N	SP	GENERIC STRUCTURE ITEM REPLACEMENT OF STRUCTURAL STEEL	Lump Sum	L.S.	
0025	8860000000-N	SP	GENERIC STRUCTURE ITEM UNDER STRUCTURE WORK PLATFORM	Lump Sum	L.S.	
0026	8860000000-N	SP	GENERIC STRUCTURE ITEM WIRE ROPE CLEANING AND RELUBRICATION	Lump Sum	L.S.	
1354/Nov08/Q6015/D131785100000/E26			Total Amount Of Bid For Entire Project :			

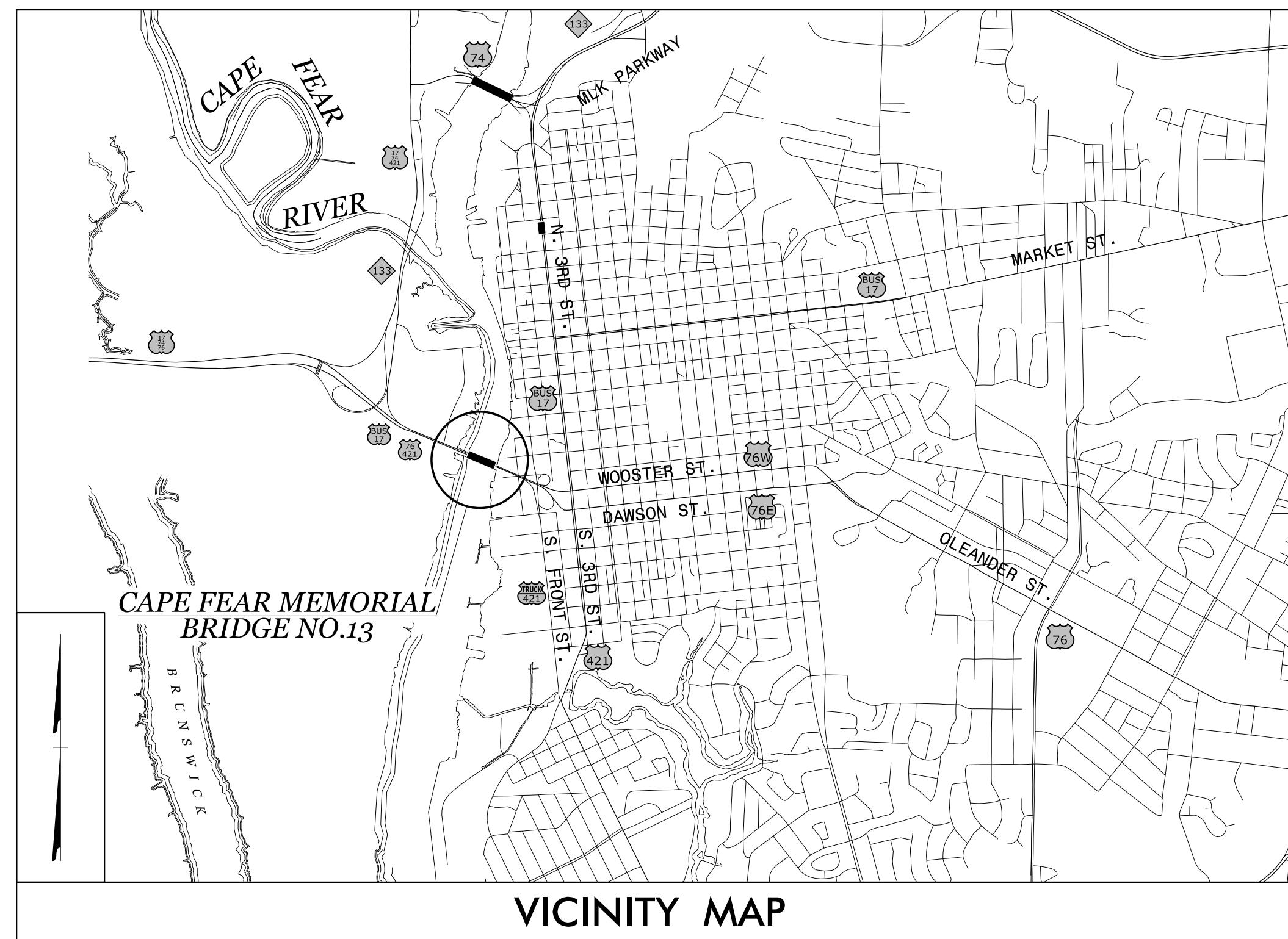
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

NEW HANOVER COUNTY
DIVISION 3



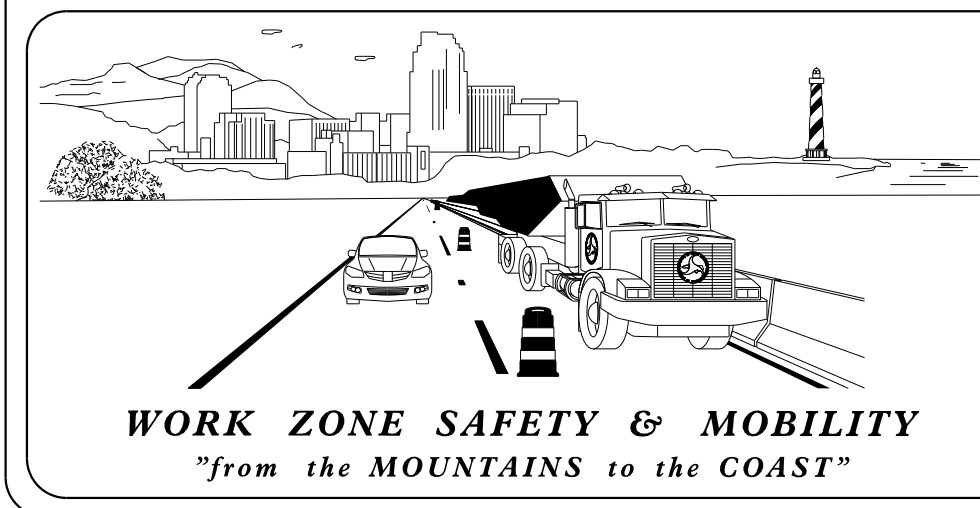
CAPE FEAR MEMORIAL BRIDGE NO. 13 (US 17/74/76/421)
OVER CAPE FEAR RIVER IN WILMINGTON



VICINITY MAP

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2	GENERAL NOTES
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	WORK ZONE ADVANCE WARNING SIGNS
TMP-4A	TRAFFIC SHIFT DETAILS
TMP-5	DETOUR SIGNS AND CMS MESSAGES
TMP-6	EASTBOUND BRIDGE CLOSURE DETOUR ROUTE
TMP-7	EASTBOUND ROAD CLOSURE DETAIL
TMP-8	WESTBOUND LANE CLOSURES
TMP-9	WESTBOUND BRIDGE CLOSURE DETOUR ROUTE
TMP-10	WESTBOUND ROAD CLOSURE DETAIL

11/3/2023
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PLANS PREPARED BY:

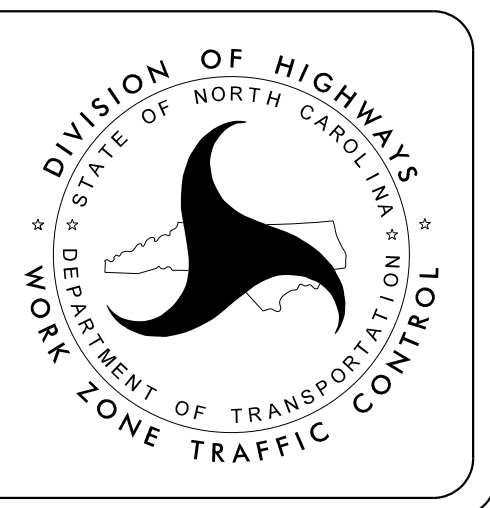
JAY W. WOOLARD, PE
SENIOR TRANSPORTATION ENGINEER

ANDREW N. GOOD
TRANSPORTATION DESIGNER

NCDOT CONTACTS:

TIM SHERRILL, PE
PROJECT ENGINEER

PROJECT DESIGN ENGINEER



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J.W. Woolard, Jr.
11/3/2023

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PROJECT: 15BR.102.3

TRAFFIC CONTROL PHASING

PERFORM ALL BRIDGE REPAIR OPERATIONS IN THE PHASING USING LANE CLOSURES OR ROAD CLOSURES AS OUTLINED BELOW:

REFER TO GENERAL NOTES FOR TIME AND HOLIDAY RESTRICTIONS.

LANE CLOSURES

-EASTBOUND TO DOWNTOWN WILMINGTON USE ROADWAY STD. DRAWING 1101.02, SHEET 3 FOR LANE CLOSURES.

-WESTBOUND FROM DOWNTOWN WILMINGTON USE SHEET TCP-8 FOR LEFT OR RIGHT LANE CLOSURES.

-WHEN WORKING IN AN INTERIOR LANE ON THE BRIDGE, CLOSE BOTH INBOUND AND OUTBOUND INTERIOR LANES.

ROAD CLOSURES

-EASTBOUND TO DOWNTOWN WILMINGTON CLOSE BRIDGE NO.13 IN ACCORDANCE WITH SHEET TCP-6 AND TCP-7 IN CONJUNCTION WITH ROADWAY STD. DRAWING 1101.03, SHEET 7.

-WESTBOUND FROM DOWNTOWN WILMINGTON CLOSE BRIDGE NO.13 IN ACCORDANCE WITH SHEET TCP-9 AND TCP-10.

PHASING

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS (SEE TCP-4) ON PROJECT NO MORE THAN THREE (3) CALENDAR DAYS BEFORE BEGINNING WORK.

STEP 2: INSTALL AND COVER OFF-SITE DETOUR SIGNS FOR EASTBOUND US 76, 421, BUS 17 AS SHOWN ON TMP-6, 7.

STEP 3: USING LANE CLOSURES AND RSD 1101.02, SHEET 3, INSTALL PCB AND TEMPORARY ATTENUATOR, TRAFFIC SHIFT MARKINGS AND DEVICES, AND TEMPORARY STEEL BARRIER ON WESTBOUND US 76, 421, BUS 17.(SEE TMP-4A)

COMPLETE THE WORK OF STEPS 4 - 6 BY APRIL 1, 2024. (SEE SPECIAL PROVISIONS)

STEP 4: UNCOVER EASTBOUND US 76, 421, BUS 17 DETOUR SIGNS AND SHIFT TRAFFIC ONTO THE DETOUR.

REMOVE THE PERMANENT MEDIAN BARRIER RAIL AND BEGIN GRID DECK REPLACEMENT ON EASTBOUND US 76, 421, BUS 17 AS SHOWN IN THE STRUCTURE PLANS.

COMPLETE THE WORK OF STEP 4A BETWEEN 7:00 PM FRIDAY AND 5:00 AM THE FOLLOWING MONDAY (58 CONSECUTIVE HOURS). (SEE SPECIAL PROVISIONS)

STEP 4A: INSTALL OFF-SITE DETOUR SIGNS FOR WESTBOUND US 76, 421, BUS 17 AS SHOWN ON TMP-9,10 AND SHIFT TRAFFIC ONTO THE DETOUR.

WELD STIFFENERS BACK ONTO THE FLOOR BEAMS ON THE EASTBOUND SIDE OF THE BRIDGE.

COVER OFF-SITE DETOUR SIGNS FOR WESTBOUND US 76, 421, AND BUS 17 AND OPEN WESTBOUND TRAFFIC ON THE CAPE FEAR MEMORIAL BRIDGE TO TRAFFIC.

STEP 5: COMPLETE THE GRID DECK REPLACEMENT ON EASTBOUND US 76, 421, BUS 17 AS SHOWN IN THE STRUCTURE PLANS.

STEP 6: INSTALL TEMPORARY STEEL BARRIER ON THE EASTBOUND SIDE OF THE BRIDGE AS SHOWN IN THE STRUCTURE PLANS.

INSTALL TRAFFIC SHIFT MARKINGS AND DEVICES, INCLUDING PCB AND TEMPORARY ATTENUATOR ON EASTBOUND US 76, 421, BUS 17 AS SHOWN ON TMP-4A. OPEN EASTBOUND US 76, 421, BUS 17 TO TRAFFIC IN THE SHIFTED PATTERN.

COMPLETE THE WORK OF STEPS 8 - 10 BETWEEN 7:00PM APRIL 8, 2024 AND MAY 23, 2024. (SEE SPECIAL PROVISIONS)

STEP 7: UNCOVER DETOUR SIGNS INSTALLED IN STEP 4A, CLOSE WESTBOUND US 76, 421, BUS 17 AND PLACE TRAFFIC ON THE OFF-SITE DETOUR. (SEE TMP-9,10)

STEP 8: REMOVE TEMPORARAY STEEL BARRIER FROM WESTBOUND SIDE OF THE BRIDGE. BEGIN GRID DECK REPLACEMENT ON WESTBOUND US 76, 421, BUS 17 AS SHOWN IN THE STRUCTURE PLANS.

COMPLETE THE WORK OF STEP 8A BETWEEN 7:00 PM FRIDAY AND 5:00 AM THE FOLLOWING MONDAY (58 CONSECUTIVE HOURS). (SEE SPECIAL PROVISIONS)

STEP 8A: INSTALL OFF-SITE DETOUR SIGNS FOR EASTBOUND US 76, 421, BUS 17 AS SHOWN ON TMP-6,7 AND SHIFT TRAFFIC ONTO THE DETOUR.

WELD STIFFENERS BACK ONTO THE FLOOR BEAMS ON THE WESTBOUND SIDE OF THE BRIDGE.

COVER OFF-SITE DETOUR SIGNS FOR EASTBOUND US 76, 421, AND BUS 17 AND OPEN EASTBOUND TRAFFIC ON THE CAPE FEAR MEMORIAL BRIDGE TO TRAFFIC.

STEP 9: COMPLETE THE GRID DECK REPLACEMENT ON WESTBOUND US 76, 421, BUS 17 AS SHOWN IN THE STRUCTURE PLANS. INSTALL THE PERMANENT MEDAIN BARRIER RAIL.

PLACE FINAL MARKINGS ON WESTBOUND US 76, 421, BUS 17 AS SHOWN IN THE FINAL PAVEMENT MARKING PLANS.

STEP 10: REMOVE ALL TRAFFIC CONTROL DEVICES AND REOPEN WESTBOUND US 76, 421, BUS 17 TO TRAFFIC IN THE FINAL PATTERN.

STEP 11: USING LANE CLOSURES PER ROADWAY STD. DRAWING 1101.02, SHEET 3, REMOVE TEMPORARY STEEL BARRIER AND ALL TRAFFIC CONTROL DEVICES, PLACE FINAL MARKINGS ON EASTBOUND US 76, 421, BUS 17 AS SHOWN IN THE FINAL PAVEMENT MARKING PLANS, AND OPEN EASTBOUND TO FINAL PATTERN.

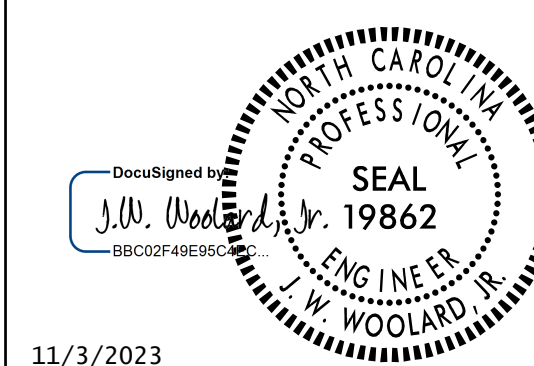
STEP 12: USING LANE CLOSURES, RSD 1101.01, SHEET 3, AND TMP-8, COMPLETE REMAINING STRUCTURE REPAIRS AS SHOWN IN THE STRUCTURE PLANS

STEP 13: REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TRAFFIC TO FINAL PATTERN.

11/3/2023
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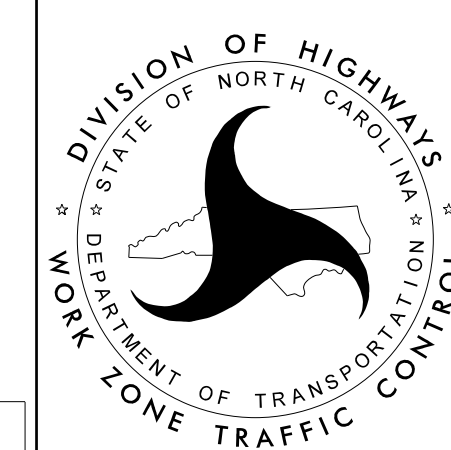


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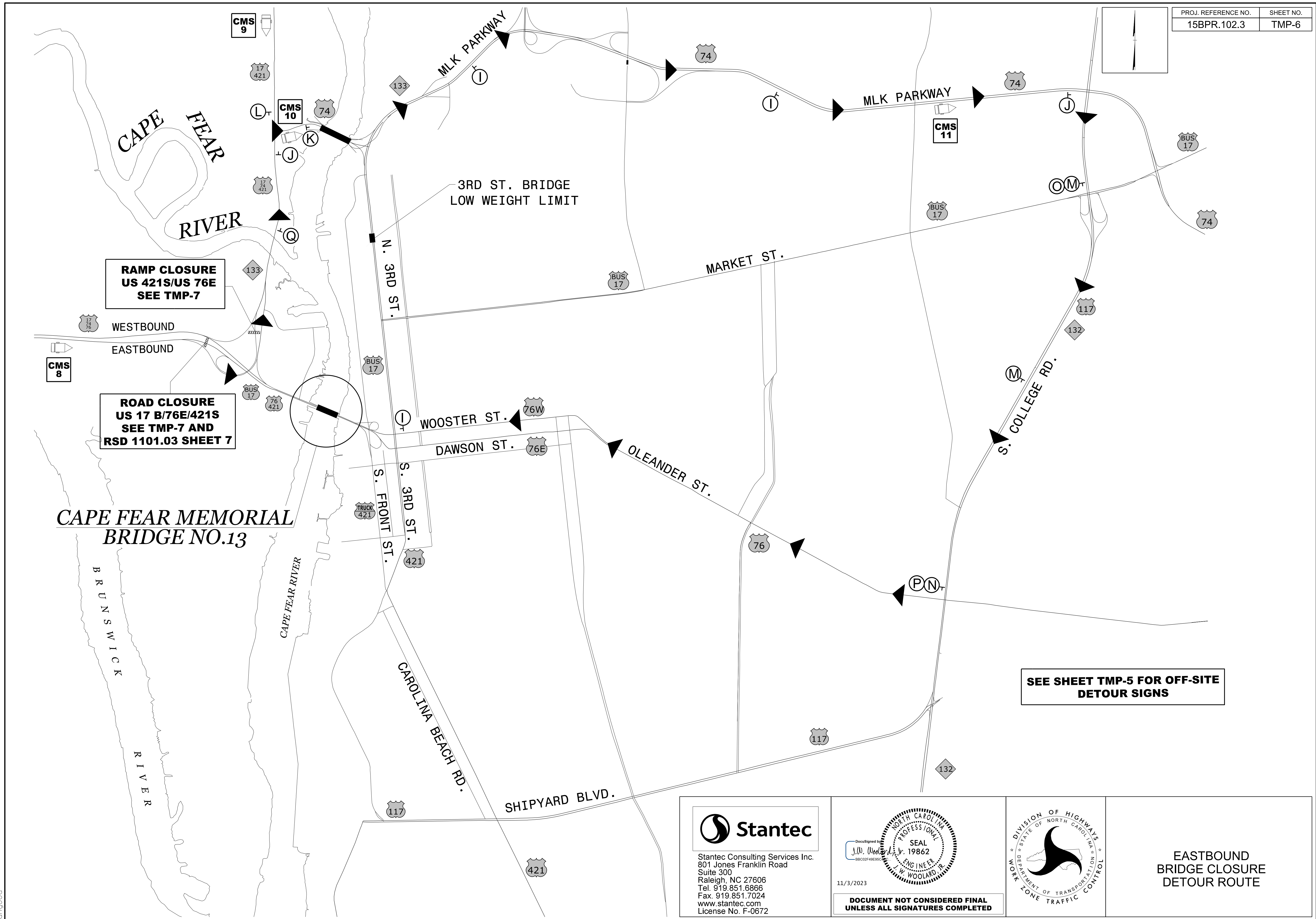


11/3/2023

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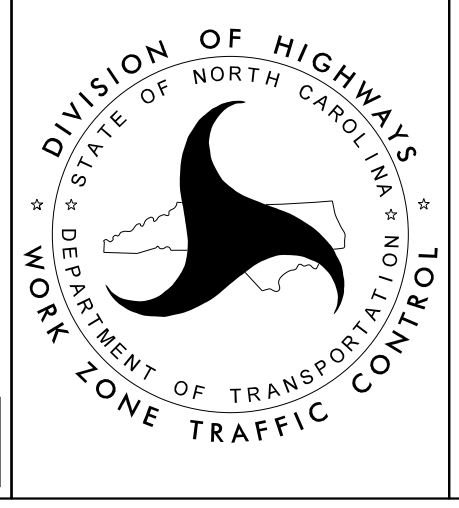
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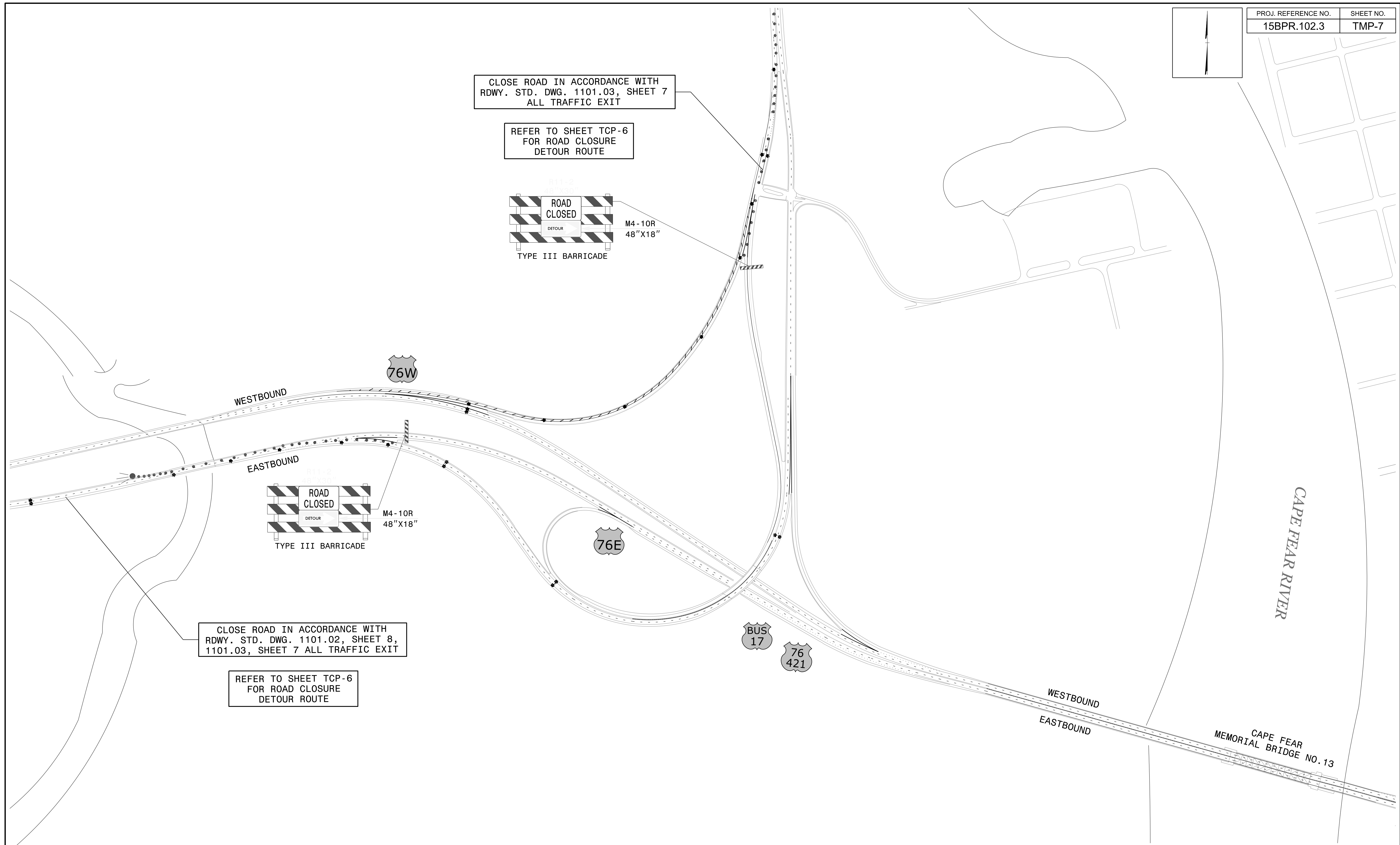
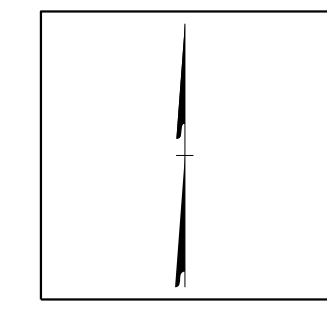
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 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 J.W. WOOLARD, JR.
 19862

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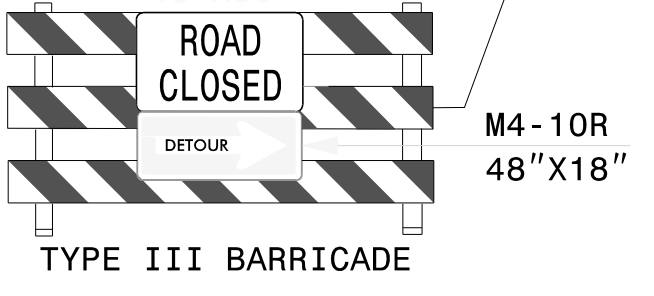
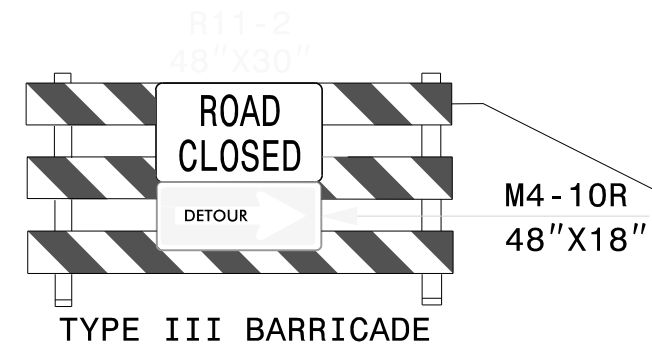
**EASTBOUND
 BRIDGE CLOSURE
 DETOUR ROUTE**

PROJ. REFERENCE NO.	SHEET NO.
15BPR.102.3	TMP-7



CLOSE ROAD IN ACCORDANCE WITH RDWY. STD. DWG. 1101.03, SHEET 7 ALL TRAFFIC EXIT

REFER TO SHEET TCP-6 FOR ROAD CLOSURE DETOUR ROUTE



CLOSE ROAD IN ACCORDANCE WITH RDWY. STD. DWG. 1101.02, SHEET 8, 1101.03, SHEET 7 ALL TRAFFIC EXIT

REFER TO SHEET TCP-6 FOR ROAD CLOSURE DETOUR ROUTE

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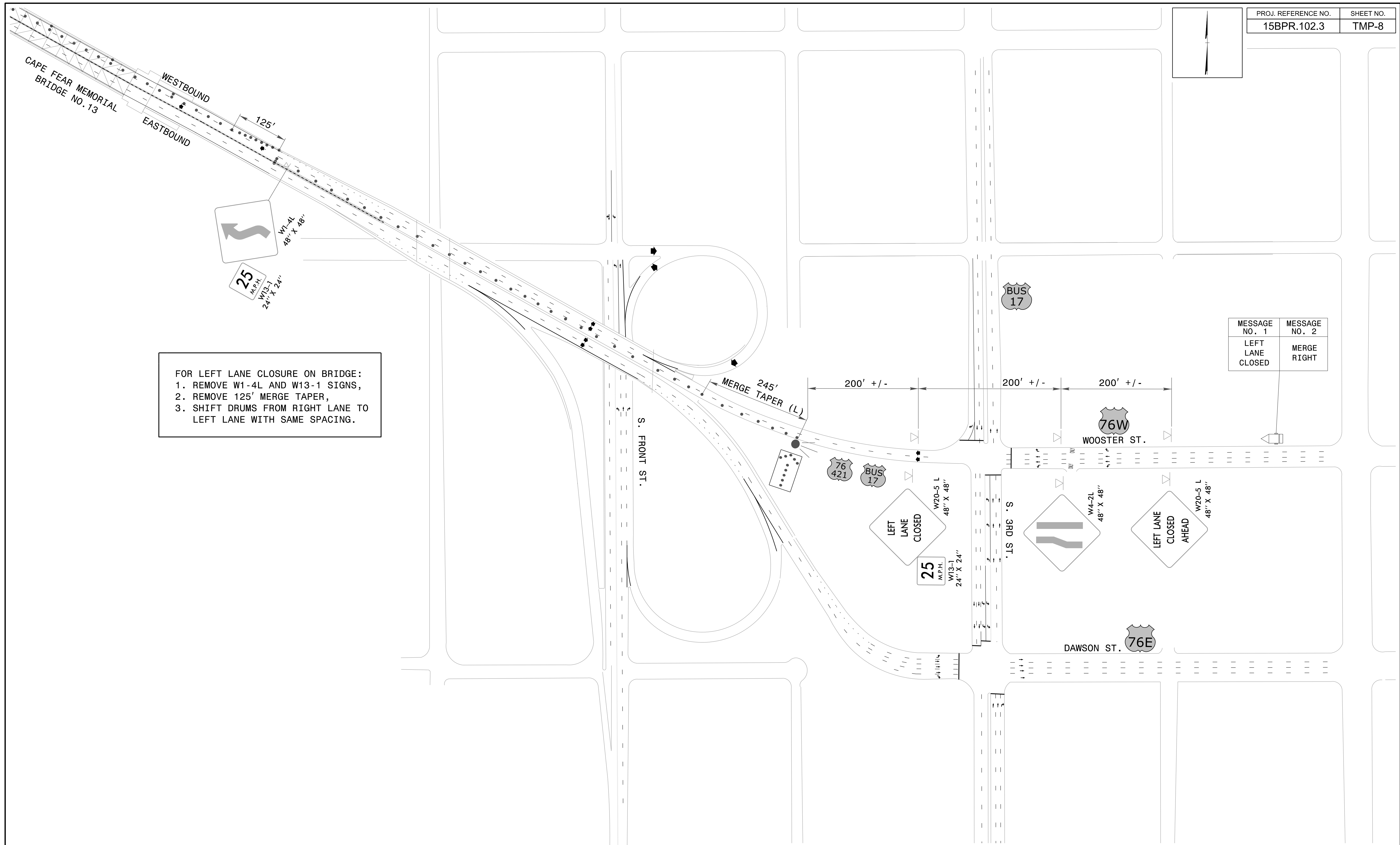
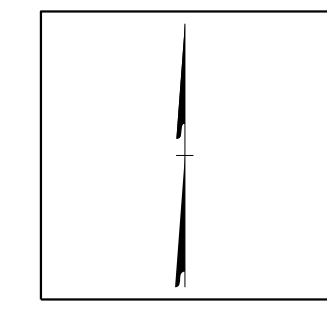
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19862
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ENGINEER
NORTH CAROLINA

DIVISION OF HIGHWAYS
DEPARTMENT OF TRANSPORTATION
STATE OF NORTH CAROLINA
WORK ZONE TRAFFIC CONTROL

**EASTBOUND
US 17 BUS/76 EAST/421 SOUTH
ROAD CLOSURE DETAIL**



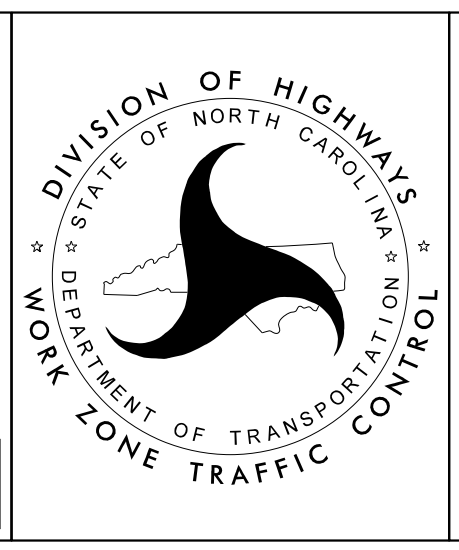
FOR LEFT LANE CLOSURE ON BRIDGE:
 1. REMOVE W1-4L AND W13-1 SIGNS,
 2. REMOVE 125' MERGE TAPER,
 3. SHIFT DRUMS FROM RIGHT LANE TO LEFT LANE WITH SAME SPACING.

MESSAGE NO. 1	MESSAGE NO. 2
LEFT LANE CLOSED	MERGE RIGHT

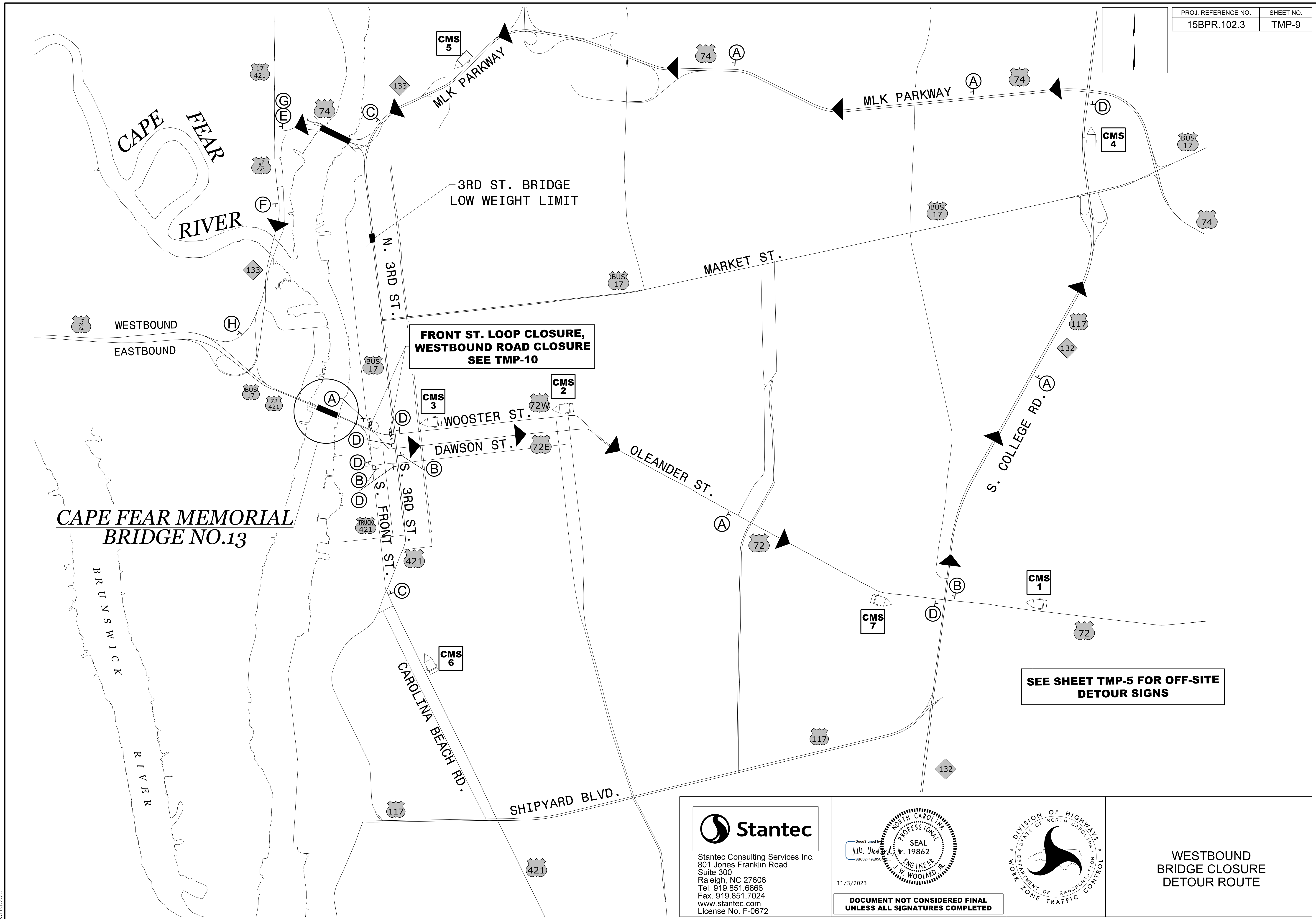
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 ENGINEER
 W. WOOLARD, JR.
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**WESTBOUND
 LANE CLOSURE DETAIL**



11/3/2023
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**CAPE FEAR MEMORIAL
BRIDGE NO.13**

**FRONT ST. LOOP CLOSURE,
WESTBOUND ROAD CLOSURE
SEE TMP-10**

**SEE SHEET TMP-5 FOR OFF-SITE
DETOUR SIGNS**

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DIVISION OF HIGHWAYS
 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

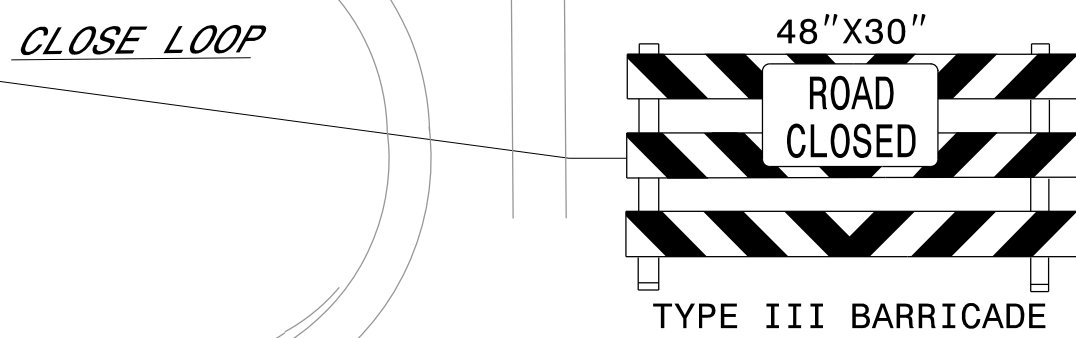
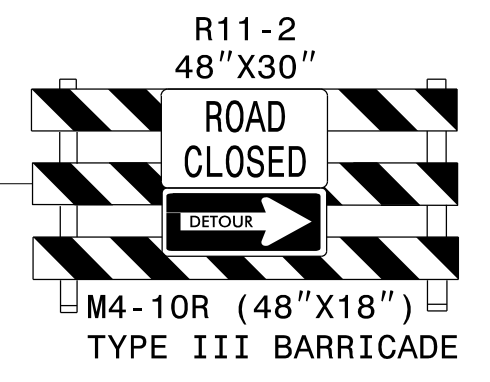
**WESTBOUND
BRIDGE CLOSURE
DETOUR ROUTE**

OPTIONAL SIGN
PLACE AS DIRECTED
BY ENGINEER

MESSAGE NO. 1	MESSAGE NO. 2
US 17 76 WEST 421NORTH	DETOUR LEFT ON WRIGHT

CLOSE
LEFT TURN LANE
USING DRUMS

CLOSE
EXIT AREA
USING DRUMS

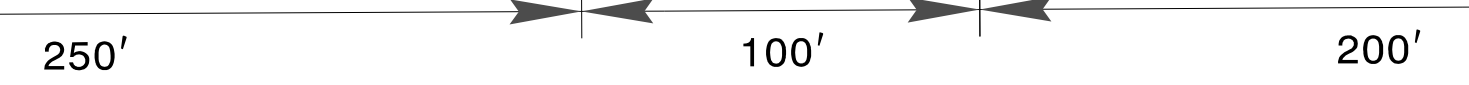


CLOSE
RIGHT TURN LANE
USING DRUMS

PROVIDE
LAW ENFORCEMENT
AT INTERSECTION

CLOSE
LEFT TURN LANE
USING DRUMS

FLASHING ARROW PANEL



REFER TO SHEET TMP-9
FOR ROAD CLOSURE
DETOUR ROUTE

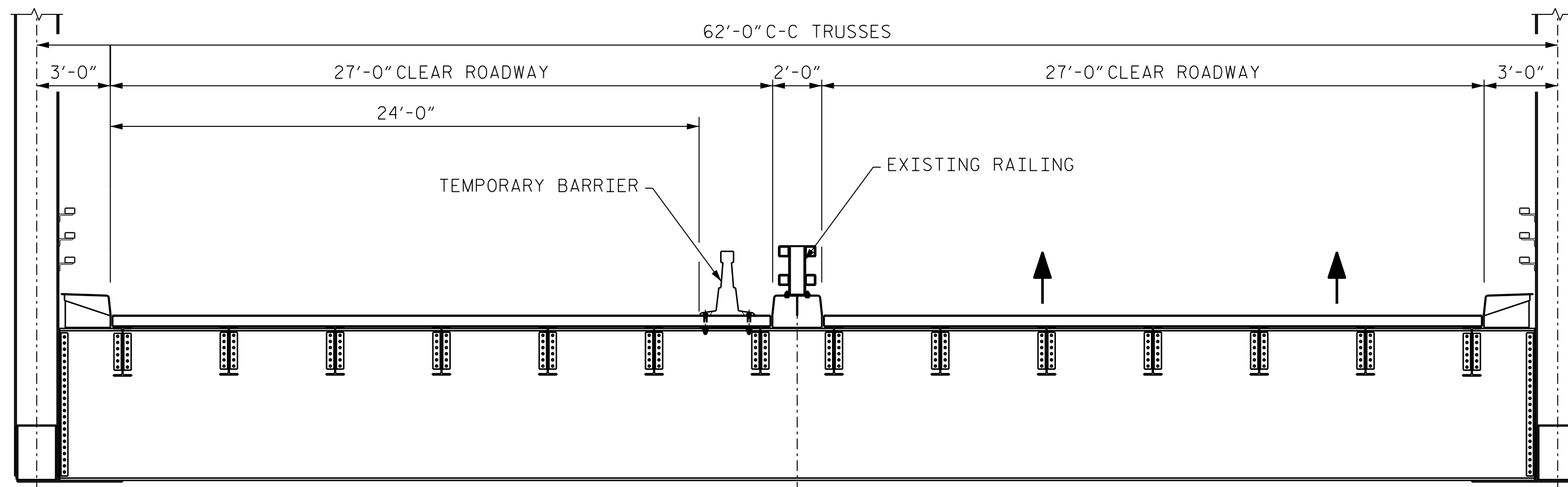
SEE SHEET TMP-5 FOR OFF-SITE
DETOUR SIGNS

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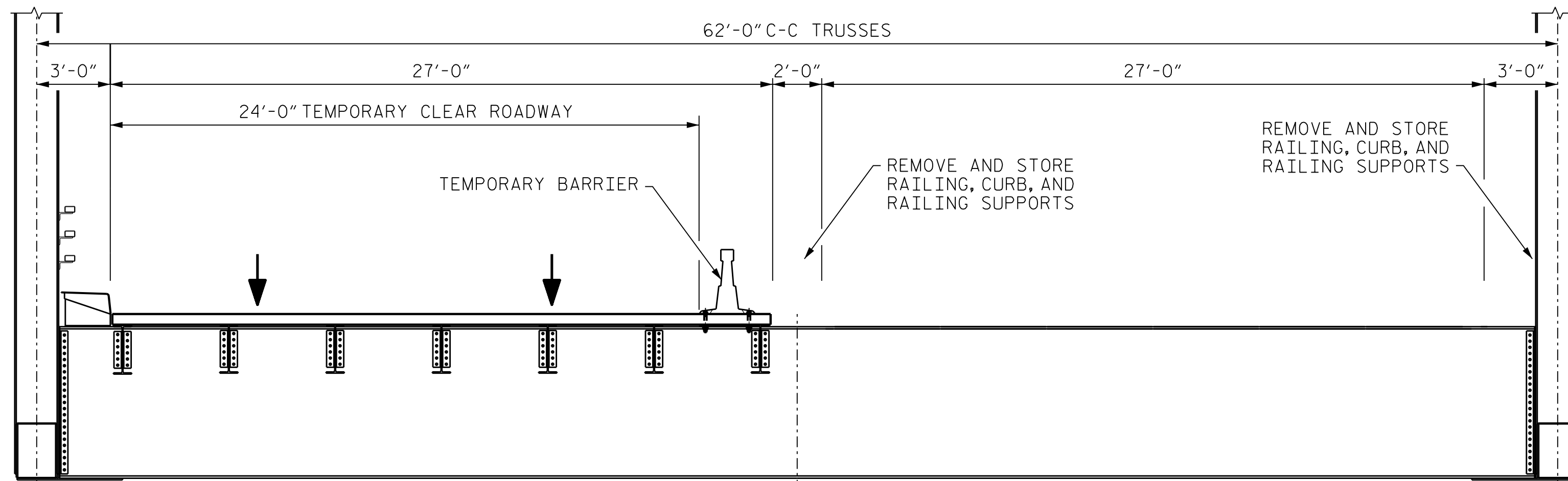
DocuSigned by
J.W. Woolard, Jr. 19862
11/3/2023

WESTBOUND
US 17/76 WEST/421 NORTH
ROAD CLOSURE DETAIL



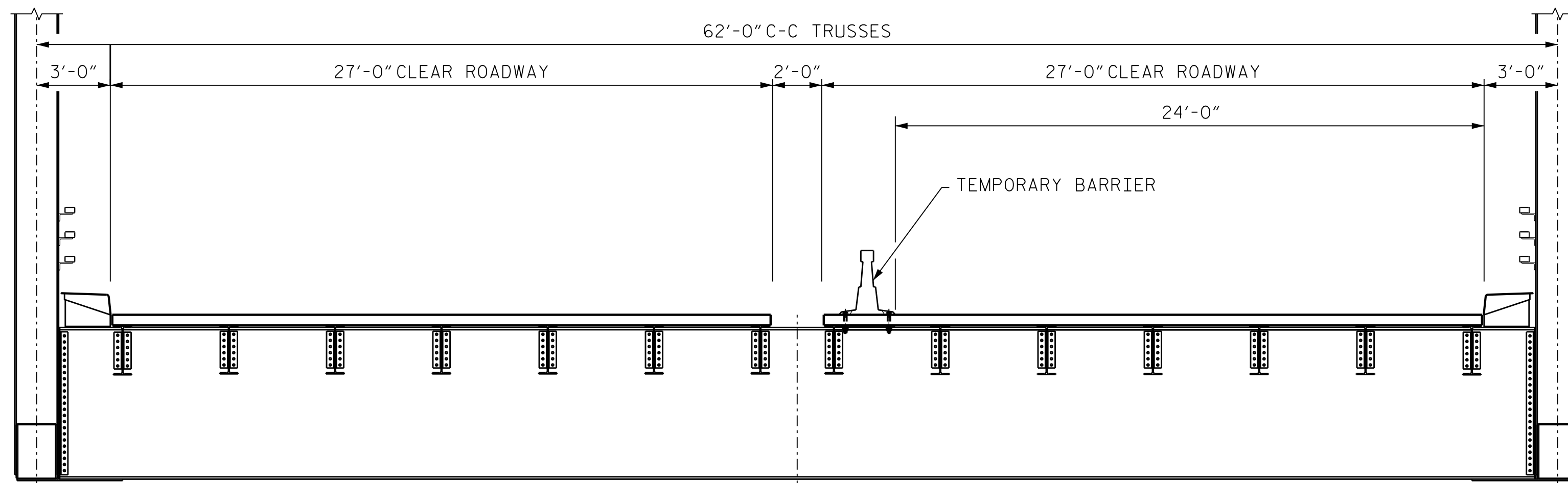
STAGE I CONSTRUCTION

(INSTALL TEMPORARY BARRIER ON WESTBOUND DIRECTION.)



STAGE II CONSTRUCTION

(PERFORM EASTBOUND WORK. REMOVE AND STORE MEDIAN AND EASTBOUND EXTERIOR RAILINGS, CURBS, AND RAILING SUPPORTS. REPLACE STRINGERS AND GRID DECK. REINSTALL EXTERIOR EASTBOUND RAILING, CURB, AND RAILING SUPPORTS.)



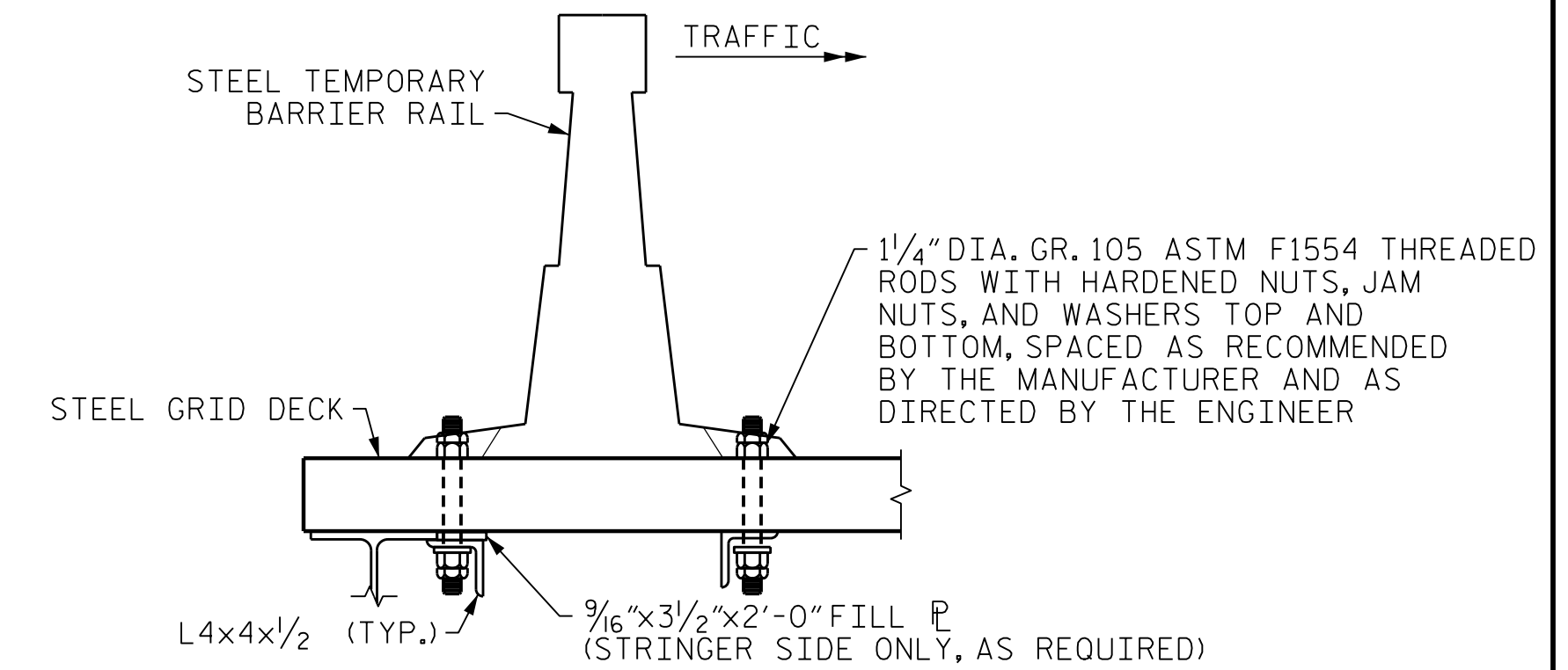
STAGE III CONSTRUCTION

(REMOVE TEMPORARY BARRIER FROM WESTBOUND SIDE AND INSTALL ON EASTBOUND SIDE.)

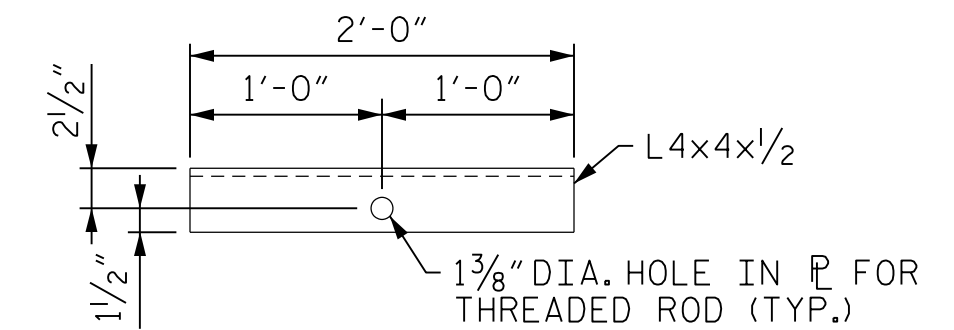
NOTES:

REFER TO TRAFFIC MANAGEMENT PLANS FOR TRAFFIC PHASING AND WORK ZONE INFORMATION.

CONTRACTOR SHALL HAVE NO MORE THAN TWO ADJACENT BAYS OF STRINGERS AND GRID DECK REMOVED AT ONE TIME.



SECTION VIEW



PLAN VIEW OF ANGLE

STEEL TEMPORARY BARRIER CONNECTION TO DECK

EASTBOUND SIDE SHOWN, WESTBOUND SIDE OPPOSITE HAND

STEEL TEMPORARY BARRIER ANCHOR NOTES:

- FOR STEEL TEMPORARY BARRIER, SEE TRAFFIC MANAGEMENT PLANS AND SPECIAL PROVISIONS.
- ALL STEEL \bar{P} SHALL BE AASHTO M270 GRADE 50 OR 50W.
- ANCHORS SHALL BE TIGHTENED AS RECOMMENDED BY THE BARRIER MANUFACTURER AND THEN JAM NUTS SHALL BE INSTALLED TO PREVENT THE NUTS FROM LOOSENING.
- NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291-DH OR AASHTO M292-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293.
- CONTRACTOR SHALL PERIODICALLY INSPECT ANCHORS TO CONFIRM CONNECTIONS ARE TIGHT.

PROJECT NO. 15BPR.102.3
 NEW HANOVER COUNTY
 BRIDGE NO. 640013

SHEET 1 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

LIFT SPAN CONSTRUCTION STAGING

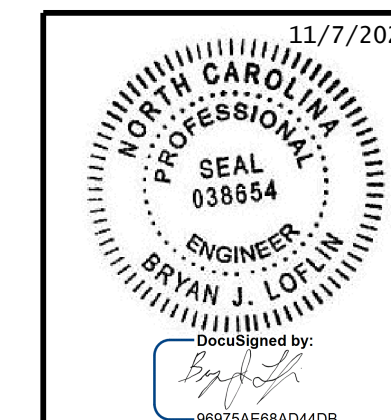
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NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-5
2			4			TOTAL SHEETS 21



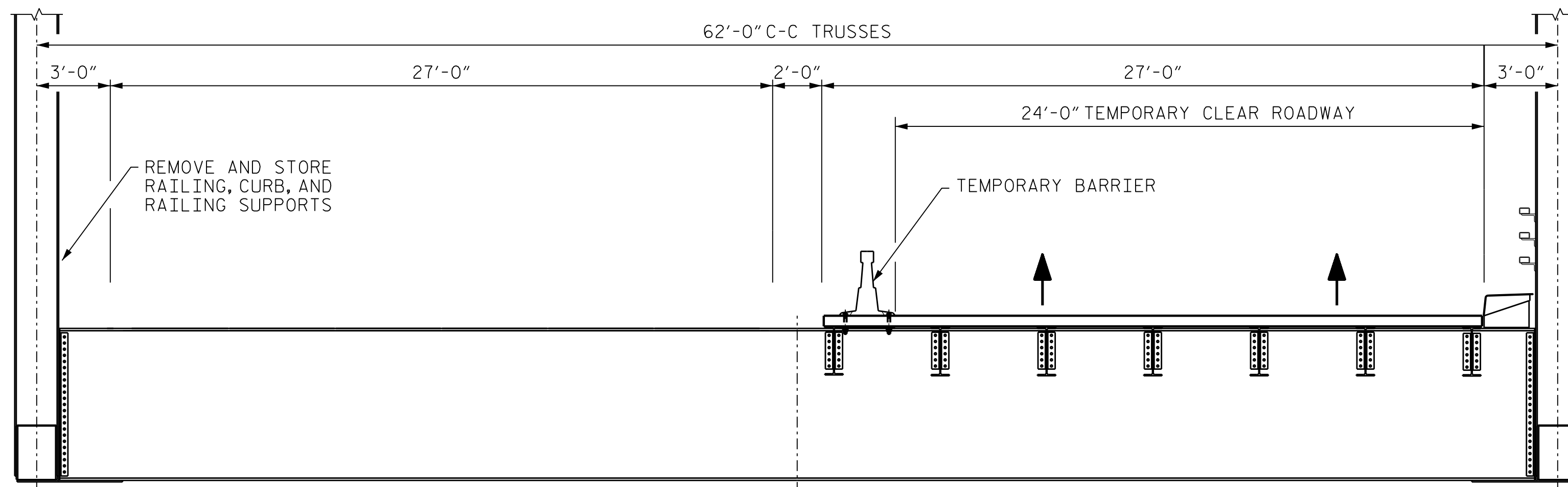
333 FAYETTEVILLE STREET, SUITE 500
 RALEIGH, NC 27601
 NC LICENSE NO. C-2979

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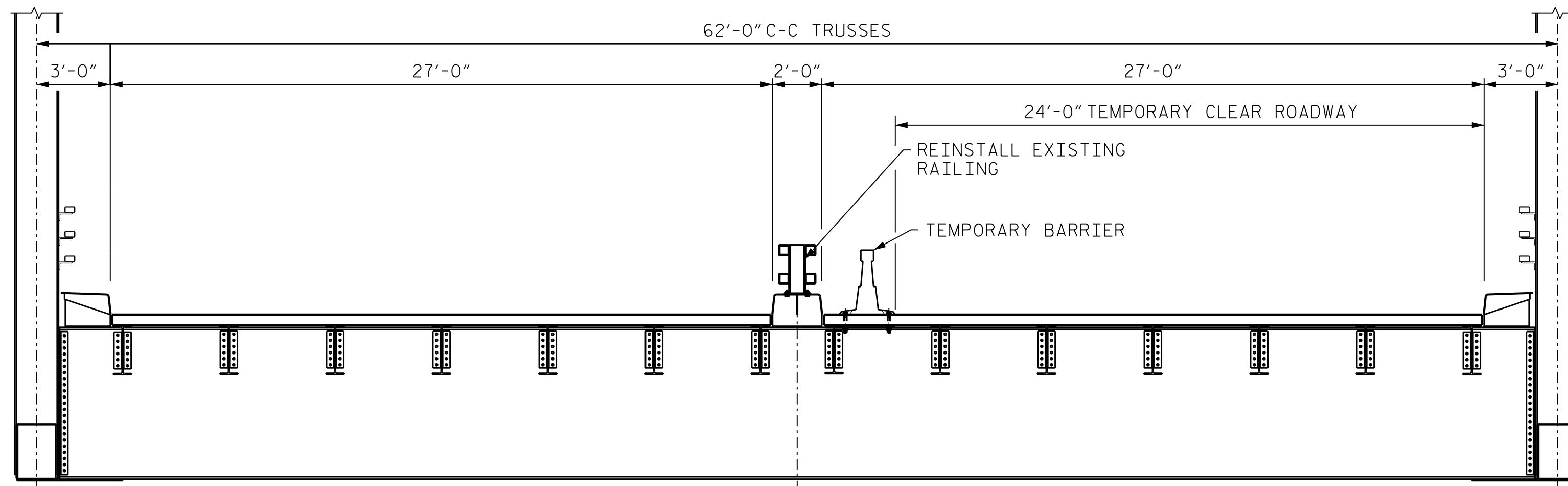
11/6/2023 401_009_15BPR.102_SMU_CSI_5.dgn

DESIGNED BY: M. NIFONG DATE: JUL 2023
 DRAWN BY: R. JOHNSON DATE: JUL 2023
 CHECKED BY: B. LOFLIN DATE: AUG 2023
 DESIGN ENGINEER OF RECORD: B. LOFLIN DATE: SEP 2023



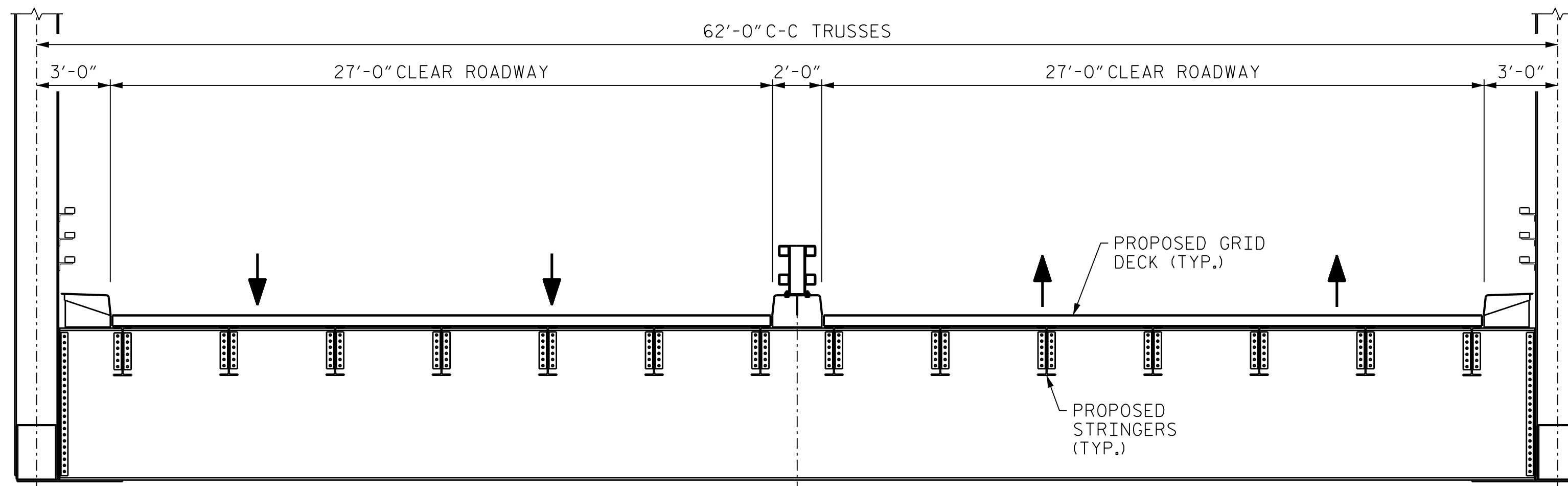
STAGE IV CONSTRUCTION

(PERFORM WESTBOUND WORK. REMOVE AND STORE WESTBOUND EXTERIOR RAILING, CURBS, AND RAILING SUPPORTS. REPLACE STRINGERS AND GRID DECK. REINSTALL EXTERIOR WESTBOUND RAILING, CURB, AND RAILING SUPPORTS)



STAGE V CONSTRUCTION

(REINSTALL EXISTING MEDIAN RAILING, CURBS, AND RAILING SUPPORT.)



STAGE VI CONSTRUCTION

(REMOVE TEMPORARY BARRIER.)

NOTES:

FOR TEMPORARY BARRIER ANCHOR DETAILS, SEE SHEET NO. S-5.
REFER TO TRAFFIC MANAGEMENT PLANS FOR TRAFFIC PHASING AND WORK ZONE INFORMATION.

PROJECT NO. 15BPR.102.3
NEW HANOVER COUNTY
BRIDGE NO. 640013

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

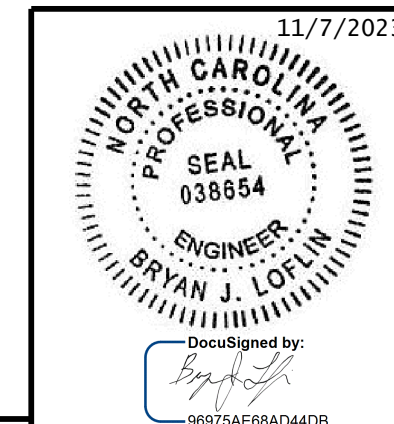
LIFT SPAN CONSTRUCTION SEQUENCE

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



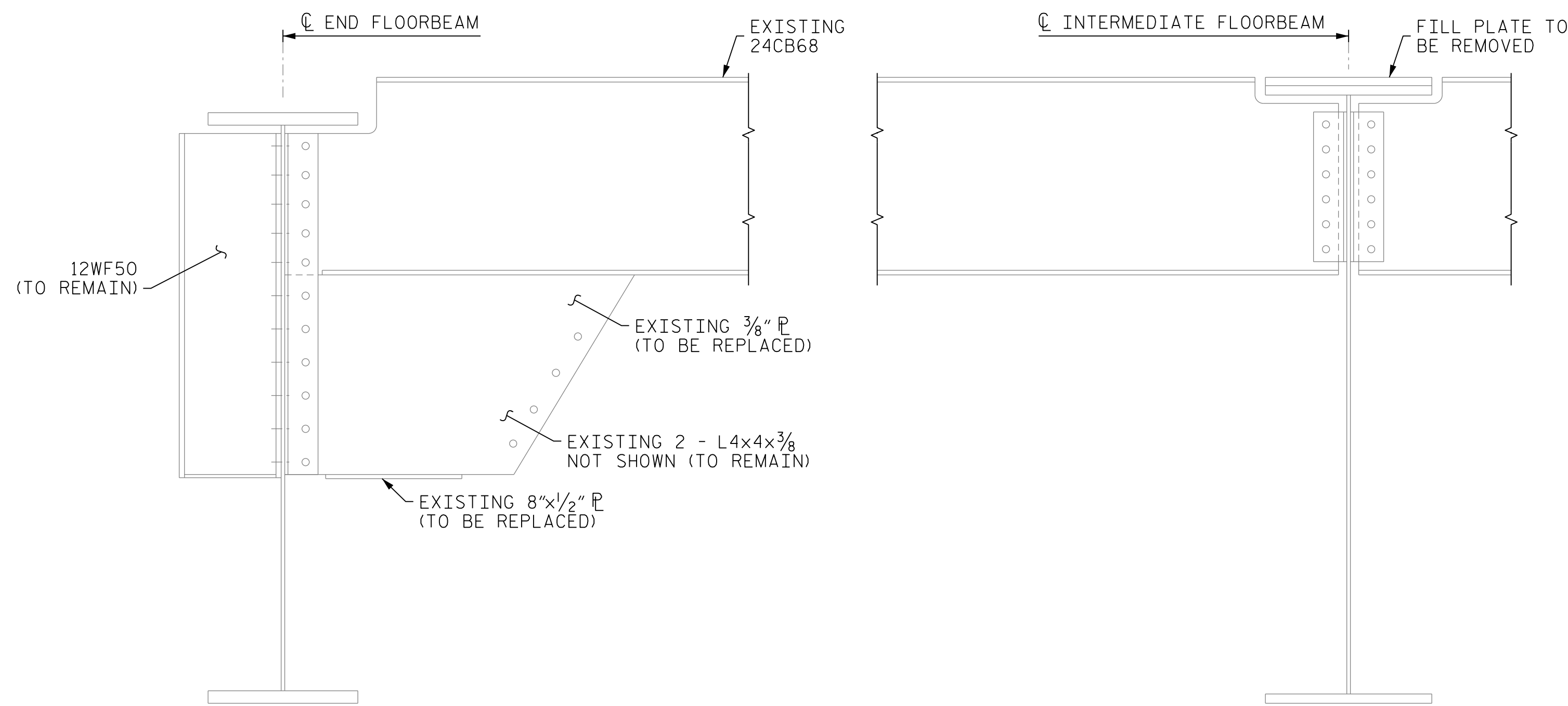
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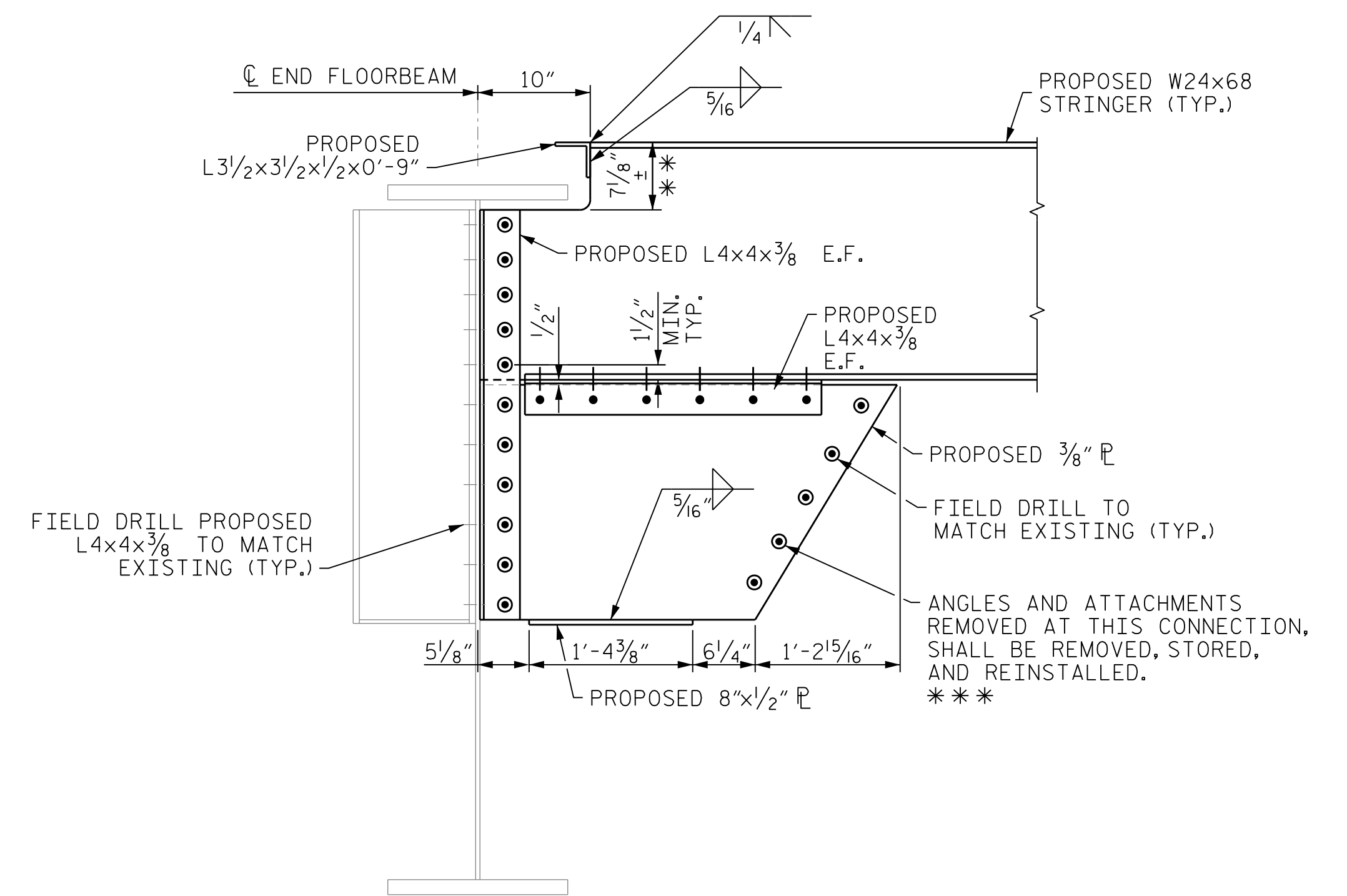
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DESIGNED BY:	M. NIFONG	DATE :	JUL 2023
DRAWN BY:	R. JOHNSON	DATE :	JUL 2023
CHECKED BY:	B. LOFLIN	DATE :	AUG 2023
DESIGN ENGINEER OF RECORD:	B. LOFLIN	DATE :	SEP 2023



EXISTING STRINGER S2 AND S13 END DETAILS

*** TO FACILITATE OPERATION OF THE LIFT SPAN, TEMPORARY BRACING SHALL BE INSTALLED IMMEDIATELY AFTER THE REMOVAL OF THE EXISTING LOCK BAR BRACING. CONTRACTOR SHALL SUBMIT TEMPORARY BRACING FOR APPROVAL. COST OF TEMPORARY BRACING SHALL BE INCLUDED IN THE COST OF THE STRUCTURAL STEEL.



PROPOSED STRINGER S13 AT FBO

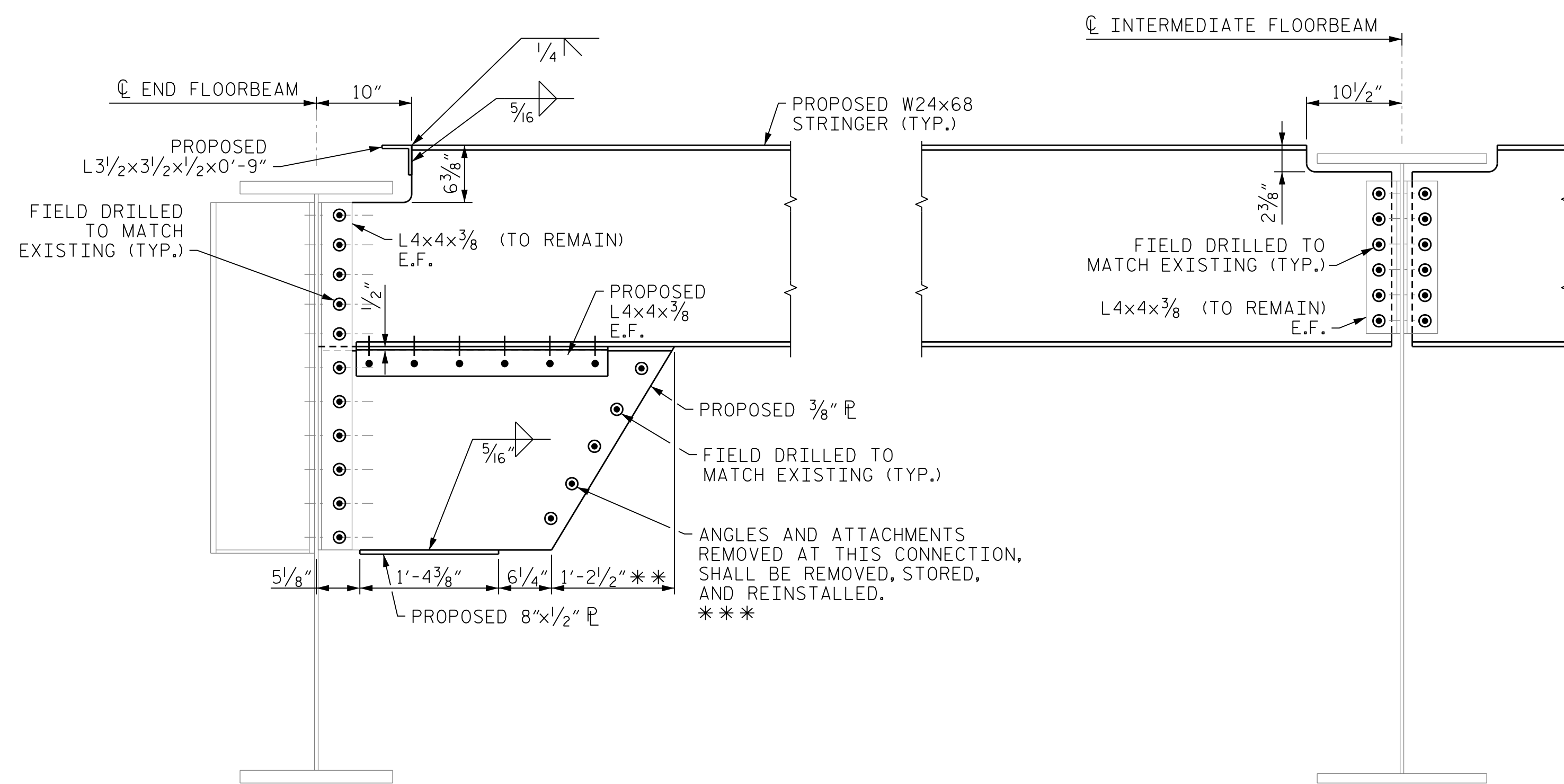
** FIELD VERIFY THIS DIMENSION AS THIS DIMENSION IS APPROXIMATED ASSUMING THAT THE LIFT SPAN FINGER JOINT WILL NEED TO BE RAISED 3/4" ± AT EACH SOUTHWEST END STRINGER LOCATION (S8-S14). (FIELD DRILLED BOLTS THROUGH STRINGER TOP FLANGE NOT SHOWN IN THIS VIEW.)

BOLT LEGEND:

- EXISTING BOLT
- ⊙ NEW BOLT IN EXISTING HOLE OR IN HOLE FIELD DRILLED TO MATCH EXISTING HOLE
- NEW BOLT IN NEW HOLE

NOTES:

- ALL BOLTS ARE 7/8" DIAMETER ASTM F3125 GRADE A325 GALVANIZED HIGH STRENGTH BOLTS UNLESS OTHERWISE SHOWN.
- * FIELD VERIFY LOCATION OF EXISTING STRINGERS BEFORE SUBMITTING SHOP DRAWINGS.
- ANY BOLTS LOOSENED FROM ANY CONNECTION DURING CONSTRUCTION SHALL BE REPLACED WITH NEW BOLTS TIGHTENED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT A FEW OF THE EXISTING STRINGER CONNECTIONS AT THE END FLOORBEAMS CONTAIN RIVETS.
- SEE OPEN GRID DECK DRAWINGS FOR STRINGER TO DECK CONNECTION DETAILS.



PROPOSED STRINGER S2 AND S13 END DETAILS

(TYPICAL UNLESS NOTED OTHERWISE.) (FIELD DRILLED BOLTS THROUGH STRINGER TOP FLANGE NOT SHOWN IN THIS VIEW.)

PROJECT NO. 15BPR.102.3
 NEW HANOVER COUNTY
 BRIDGE NO. 640013

SHEET 2 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**STRUCTURAL STEEL
 END STRINGERS**



333 FAYETTEVILLE STREET, SUITE 500
 RALEIGH, NC 27601
 NC LICENSE NO. C-2979



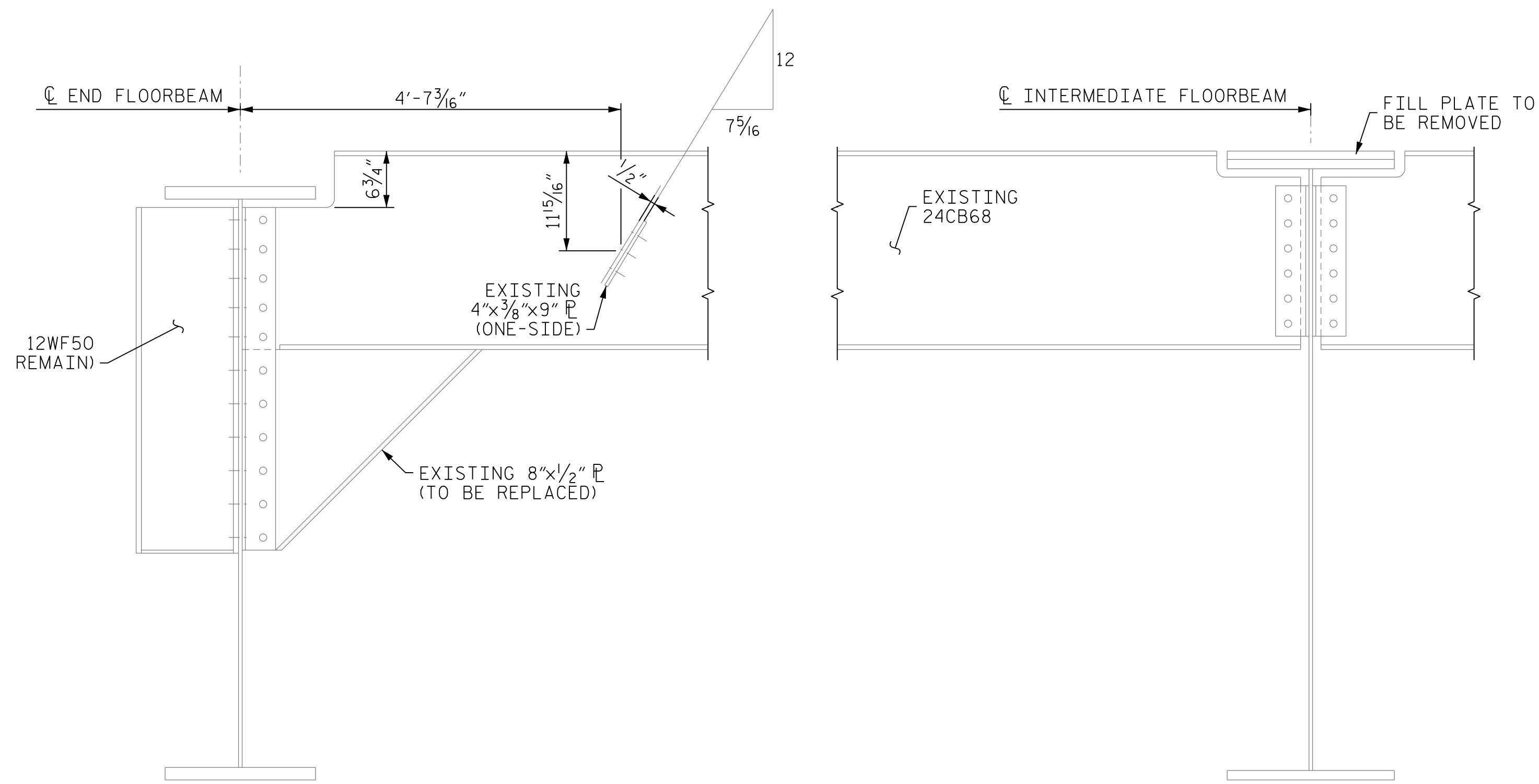
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2			4		

SHEET NO.
 S-15
 TOTAL SHEETS
 21

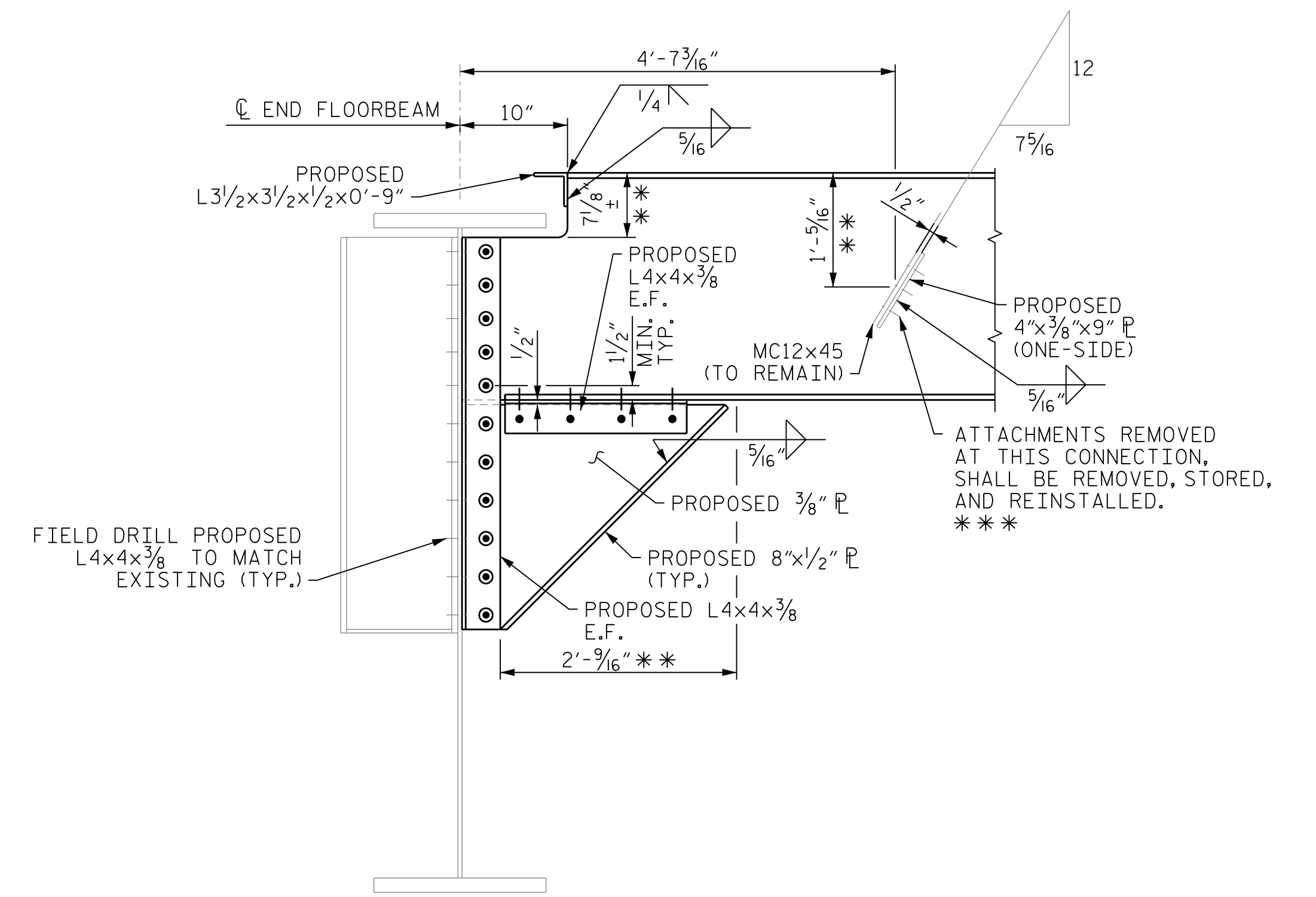
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DESIGNED BY: C. CORMAN DATE: AUG 2023
 DRAWN BY: R. JOHNSON DATE: AUG 2023
 CHECKED BY: M. NIFONG DATE: AUG 2023
 DESIGN ENGINEER OF RECORD: B. LOFLIN DATE: SEP 2023



EXISTING STRINGER S7 AND S8 END DETAILS

*** TO FACILITATE OPERATION OF THE LIFT SPAN, TEMPORARY BRACING SHALL BE INSTALLED IMMEDIATELY AFTER THE REMOVAL OF THE EXISTING CENTERING DEVICE BRACING. CONTRACTOR SHALL SUBMIT TEMPORARY BRACING FOR APPROVAL. COST OF TEMPORARY BRACING SHALL BE INCLUDED IN THE COST OF THE STRUCTURAL STEEL.



PROPOSED STRINGER S8 AT FBO

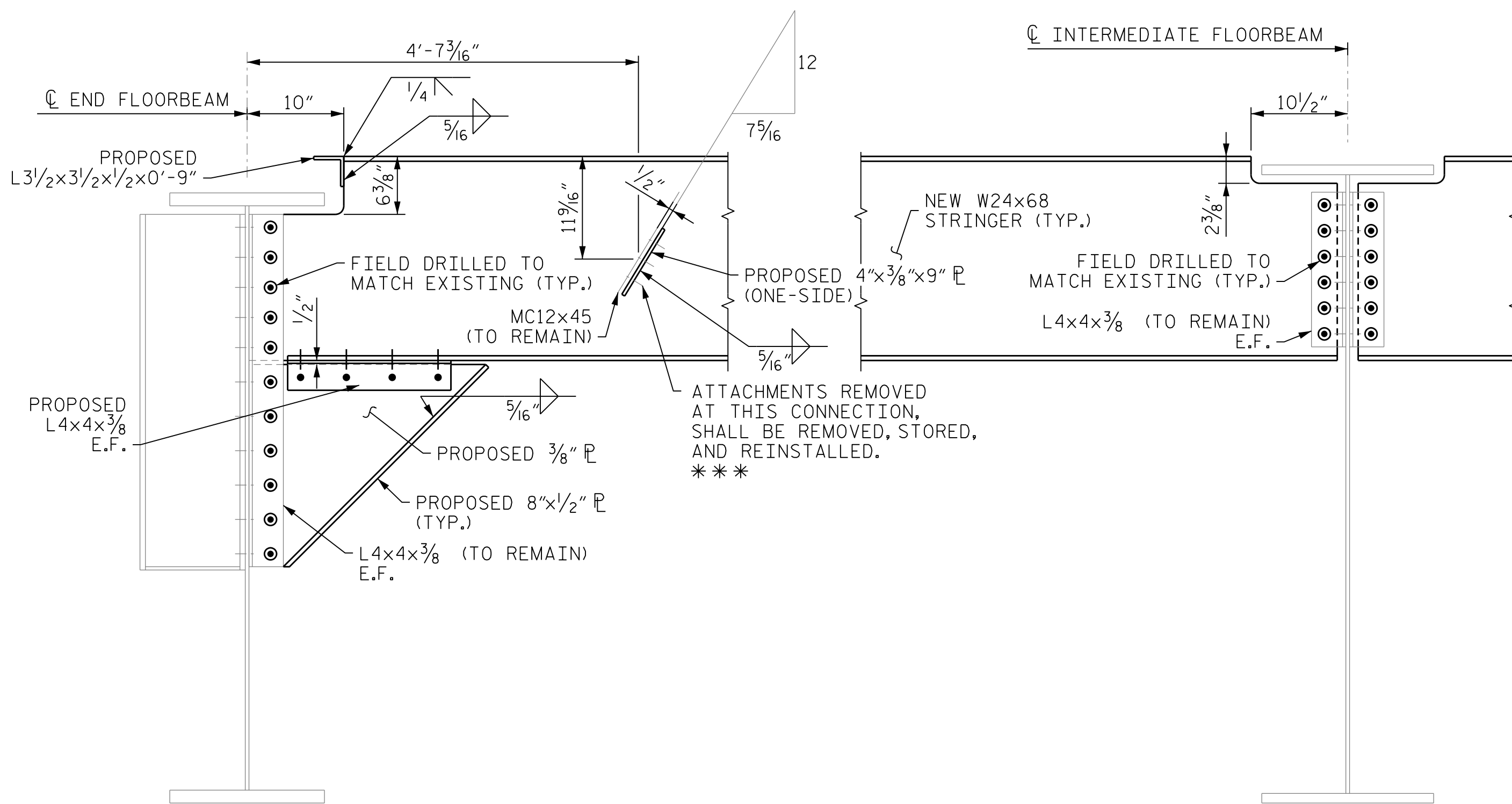
** FIELD VERIFY THIS DIMENSION AS THIS DIMENSION IS APPROXIMATED ASSUMING THAT THE LIFT SPAN FINGER JOINT WILL NEED TO BE RAISED 3/4" ± AT EACH SOUTHWEST END STRINGER LOCATION (S8-S14). (FIELD DRILLED BOLTS THROUGH STRINGER TOP FLANGE NOT SHOWN IN THIS VIEW.)

BOLT LEGEND:

- EXISTING BOLT
- NEW BOLT IN EXISTING HOLE OR IN HOLE FIELD DRILLED TO MATCH EXISTING HOLE
- NEW BOLT IN NEW HOLE

NOTES:

- ALL BOLTS ARE 7/8" DIAMETER ASTM F3125 GRADE A325 GALVANIZED HIGH STRENGTH BOLTS UNLESS OTHERWISE SHOWN.
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- ANY BOLTS LOOSENED FROM ANY CONNECTION DURING CONSTRUCTION SHALL BE REPLACED WITH NEW BOLTS TIGHTENED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT A FEW OF THE EXISTING STRINGER CONNECTIONS AT THE END FLOORBEAMS CONTAIN RIVETS.
- SEE OPEN GRID DECK DRAWINGS FOR STRINGER TO DECK CONNECTION DETAILS.



PROPOSED STRINGER S7 AND S8 END DETAILS

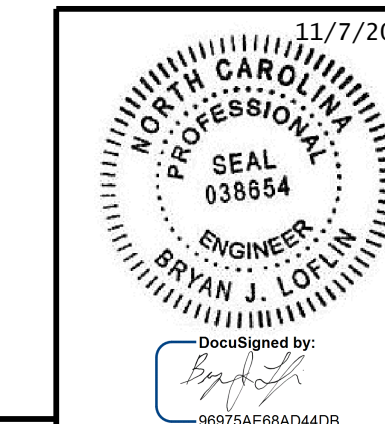
(TYPICAL UNLESS NOTED OTHERWISE.) (FIELD DRILLED BOLTS THROUGH STRINGER TOP FLANGE NOT SHOWN IN THIS VIEW.)

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 NEW HANOVER COUNTY
 BRIDGE NO. 640013

SHEET 4 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**STRUCTURAL STEEL
 END STRINGERS**



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NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-17
2			4			TOTAL SHEETS 21

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