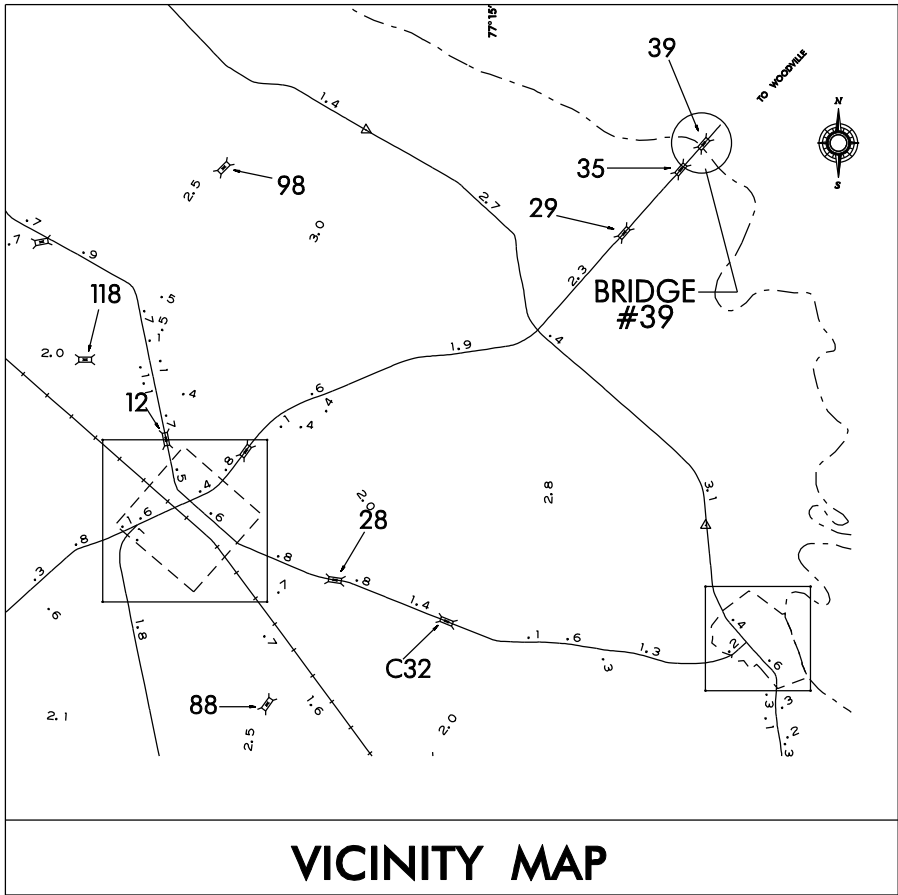


CONTRACT NO. D000074

BK-5101R

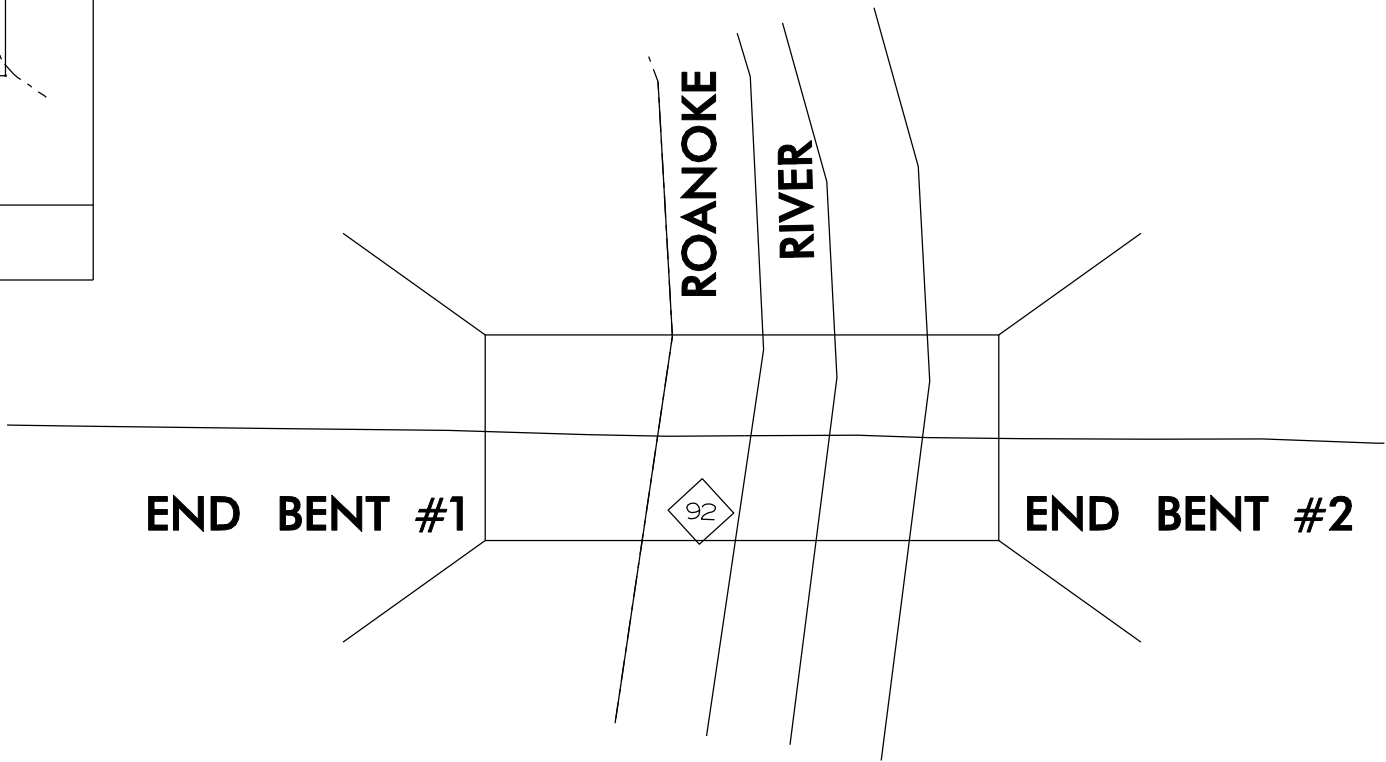


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

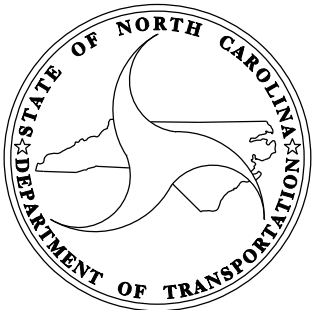
MARTIN COUNTY

LOCATION: BRIDGE #39, ON NC11, ACROSS ROANOKE RIVER

TYPE OF WORK: BRIDGE DECK PRESERVATION



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BK-5101R	1	6
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42579.1.1	BRSTP-0011(19)	P.E.	
42579.3.16	BRSTP-0011(19)	CONST	



DESIGN DATA

ADT 2005 = 4300  
ADT 2025 = 8600

PROJECT LENGTH

LENGTH STRUCTURE PROJECT = 0.097 MILE

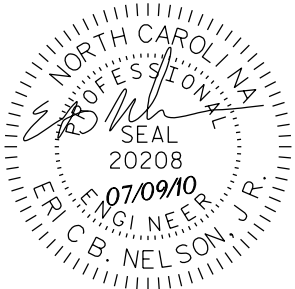
Prepared In the Office of:  
**BRIDGE MANAGEMENT UNIT**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2006 STANDARD SPECIFICATIONS

LETTING DATE:  
AUGUST 19, 2010

DAN HOLDERMAN, PE  
STATE BRIDGE  
MANAGEMENT ENGINEER

MIKE SUMMERS  
BRIDGE MANAGEMENT  
PROJECT MANAGER



DESIGN ENGINEER

NOTES

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

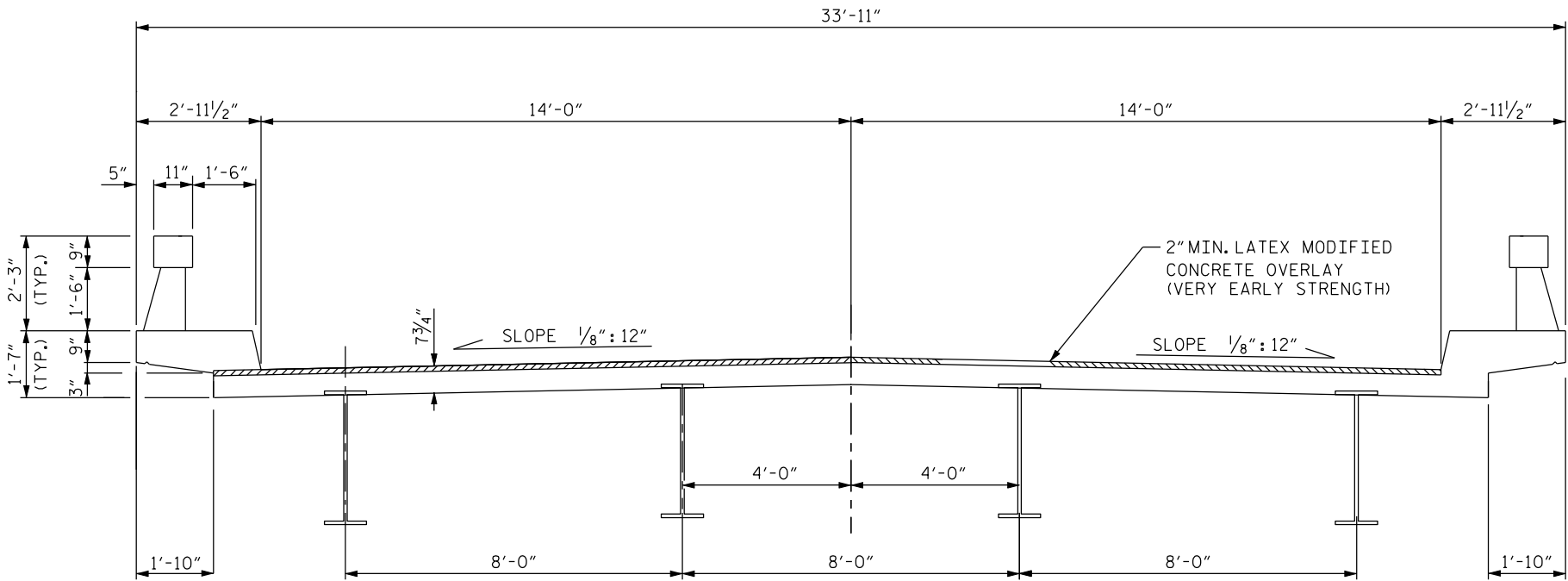
SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.

FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS .

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

THE BOUNDARIES OF AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF DECK. SEE DETAIL.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.



TYPICAL SECTION -(SPANS "A", "C" & "H" 36" I-BEAM)

TOTAL BILL OF MATERIAL										
* DECK SCARIFICATION	* CLASS I SURFACE PREPARATION	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	HYDRO-DEMOLITION	LATEX MODIFIED CONC.- VERY EARLY STR.	PLACING & FINISHING LATEX MODIFIED CONC.-VERY EARLY STR.	CLASS AA CONCRETE	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOOR	ASPHALT CONCRETE SURFACE COURSE TYPE SF 9.5A
SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	C.Y.	SQ.YDS.	C.Y.	LUMP SUM	SQ. FT.	TONS
1891	1549	31	0	1580	91	1580	0	LUMP SUM	14,220	34

\* QUANTITY SHOWN IS FOR INFORMATION ONLY.

\* INCLUDES APPROACH MILLING.

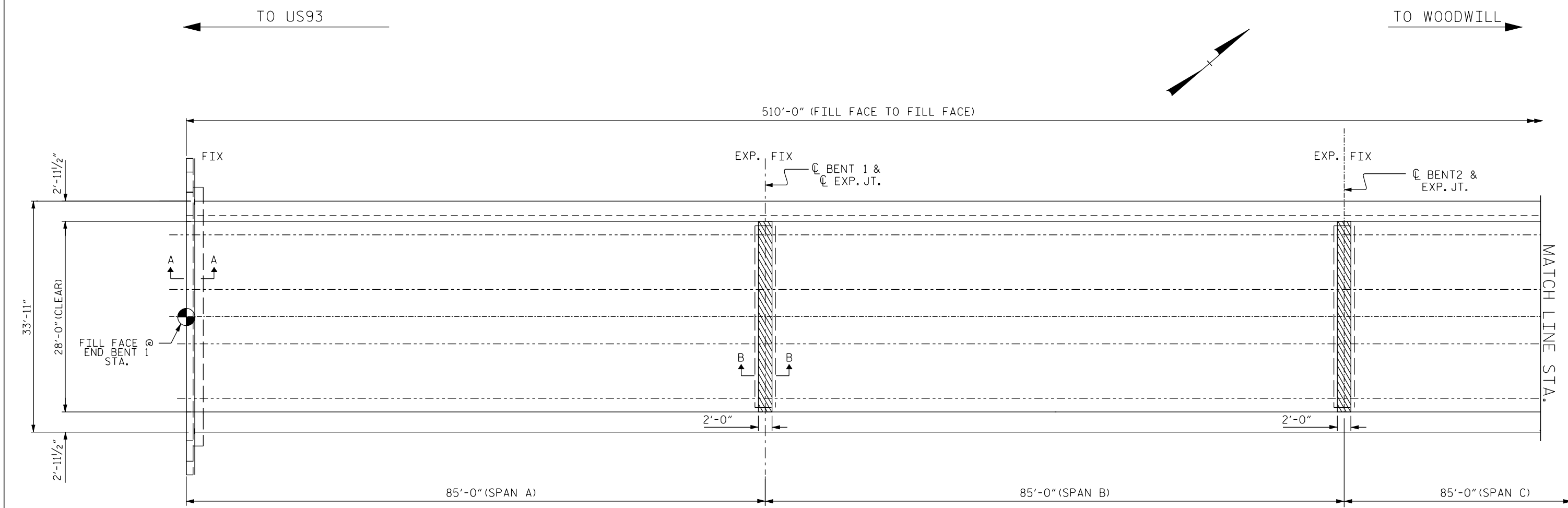
PROJECT NO. BK-5101R

COUNTY: MARTIN

STATION: N/A

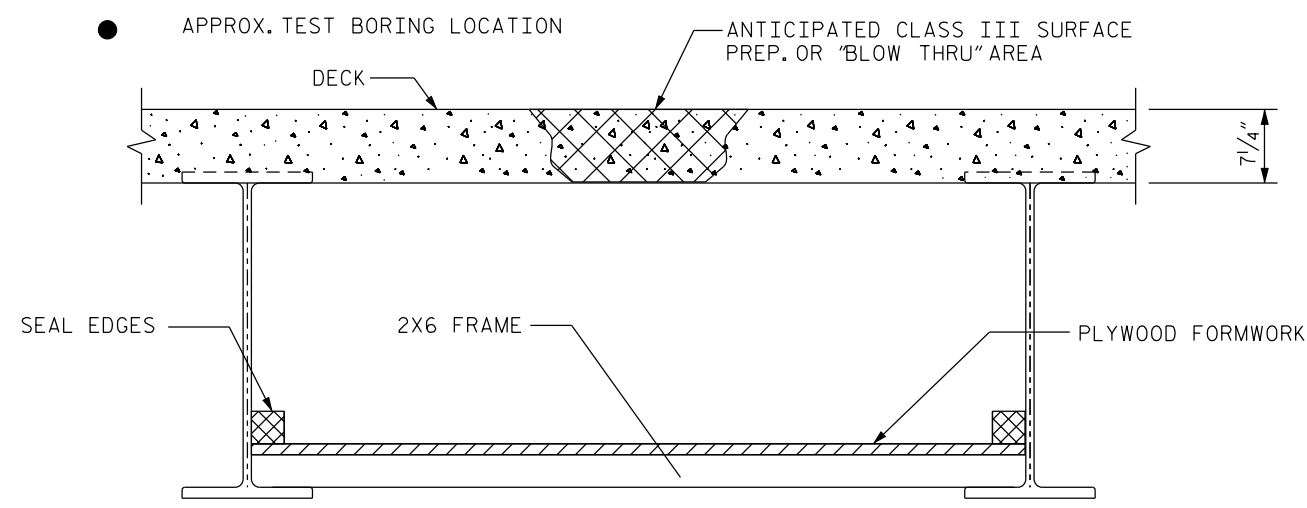
BRIDGE NO. 39

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH										
TYPICAL SECTIONS OF BRIDGE No. 39 ON NC 11 OVER ROANOKE RIVER										SHEET NO. 2
REVISIONS										TOTAL SHEETS 6
NO.	BY	DATE	NO.	BY	DATE					
1			3							
2			4							



- APPROX. AREA: CLASS II REPAIR
- SPALLS
- APPROX. TEST BORING LOCATION

PLAN VIEW OF BRIDGE

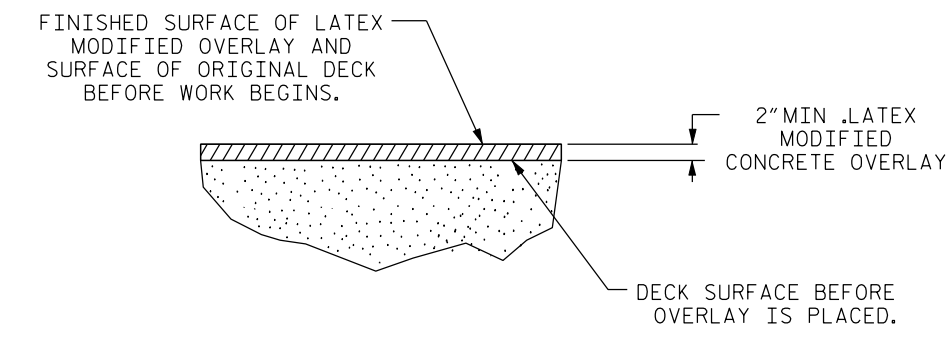


TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

SUBMIT DETAILS OF PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

COST FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.



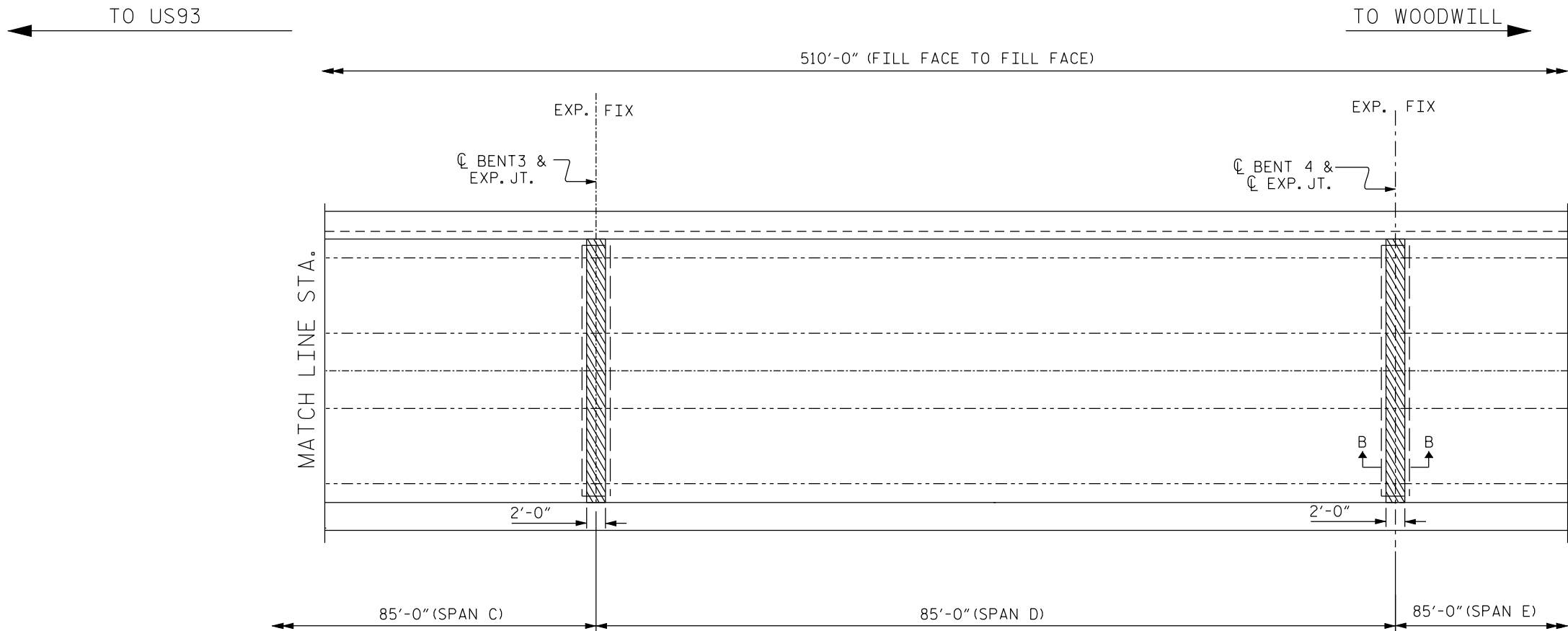
DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

PROJECT NO. BK-5101R  
 COUNTY: MARTIN  
 STATION: N/A  
 DECK REHAB BRIDGE NO. 39

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
PLAN VIEW OF BRIDGE #39 ON NC 11 ACROSS ROANOKE RIVER 28'-0" CLEAR ROADWAY (90°-00' SKEW)					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					SHEET NO. 3 TOTAL SHEETS 6

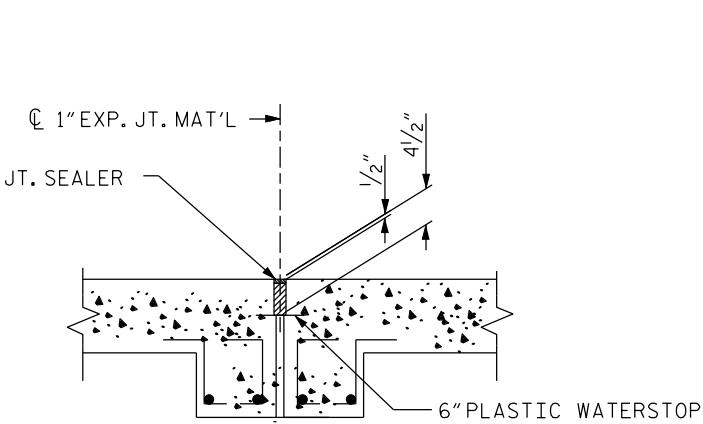
DRAWN BY : S. T. SANDOR  
 CHECKED BY : A. ABRAHA

DATE : APR./2010  
 DATE : APR./2010

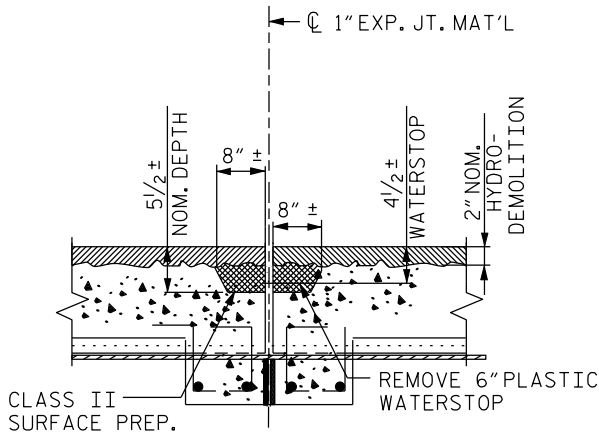


PLAN VIEW OF BRIDGE

- APPROX. AREA: CLASS II REPAIR
- SPALLS
- APPROX. TEST BORING LOCATION



SECTION B-B  
(EXISTING JOINT)

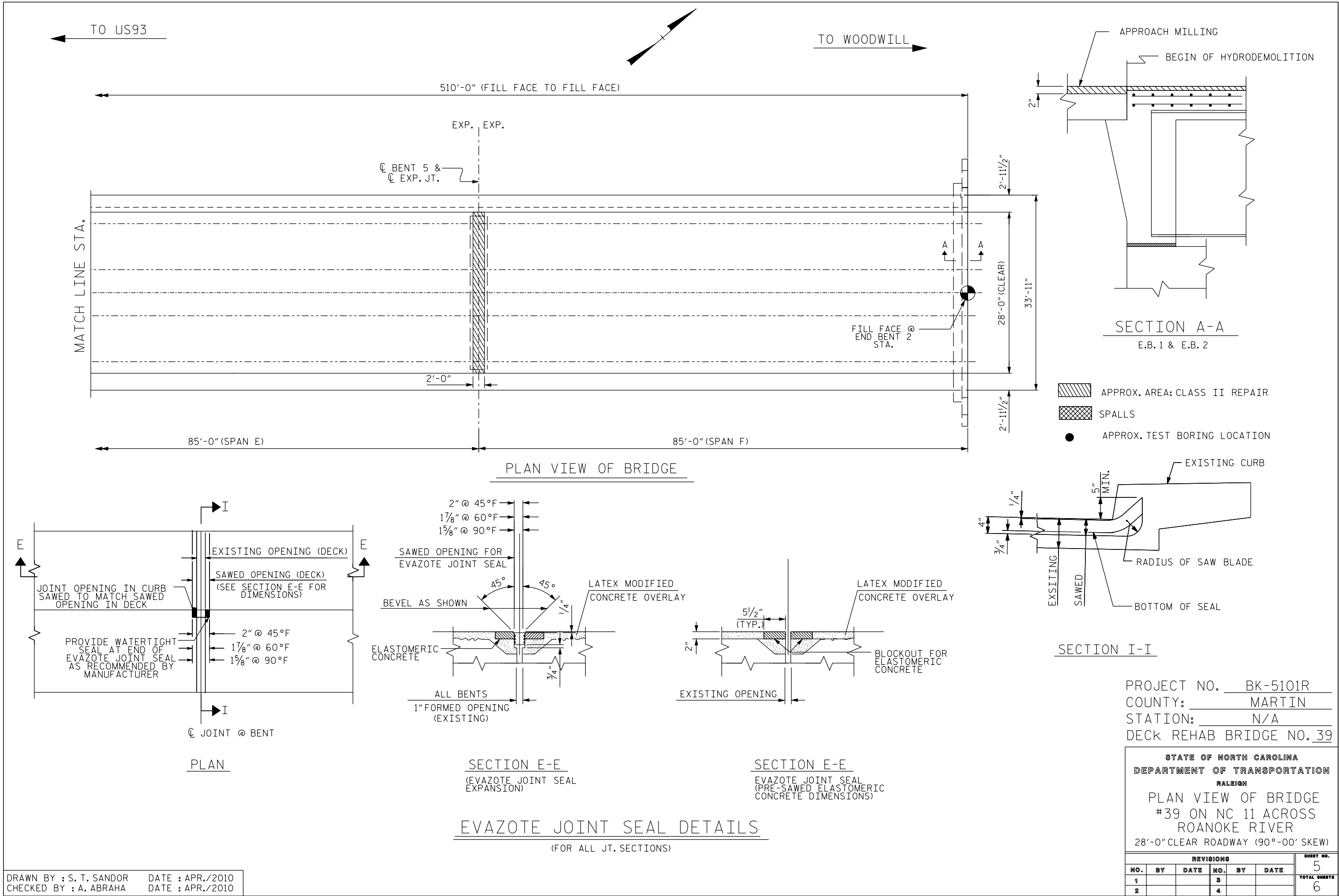


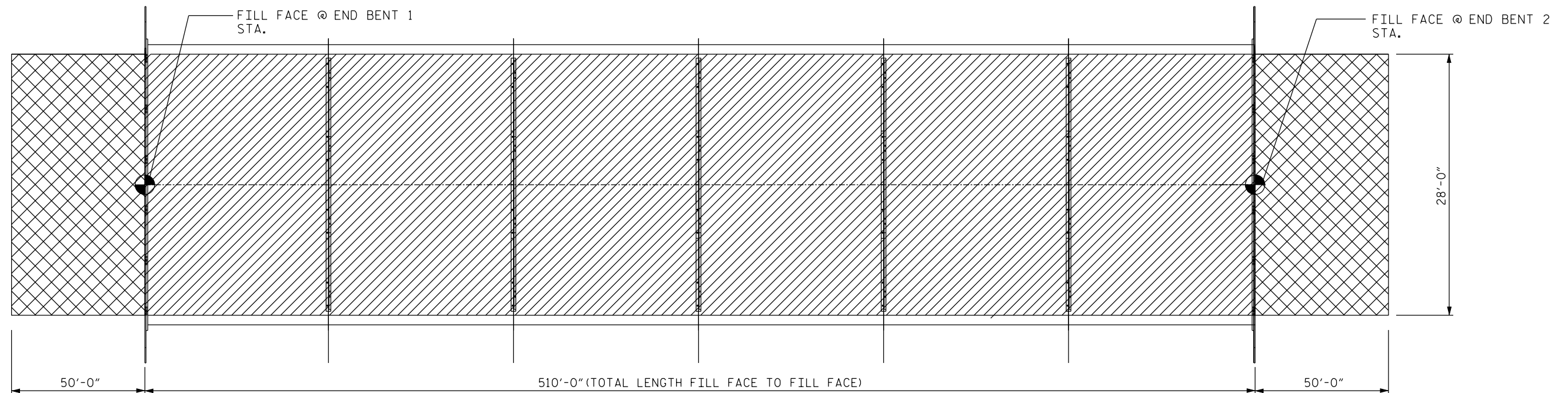
MINIMUM EXISTING JOINT DEMOLITION  
(FOR SECTION B-B)

NOTE: RETAIN ALL EXISTING REINF. STEEL. CLEAN AND REPAIR AS REQ'D.

PROJECT NO. BK-5101R  
COUNTY: MARTIN  
STATION: N/A  
DECK REHAB BRIDGE NO. 39

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
PLAN VIEW OF BRIDGE #39 ON NC 11 ACROSS ROANOKE RIVER 28'-0" CLEAR ROADWAY (90°-00' SKEW)					
REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					TOTAL SHEETS
					4
					6

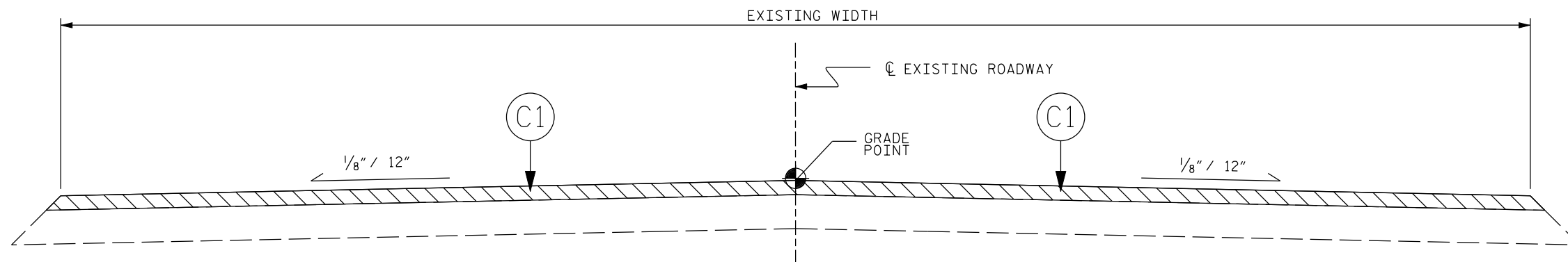




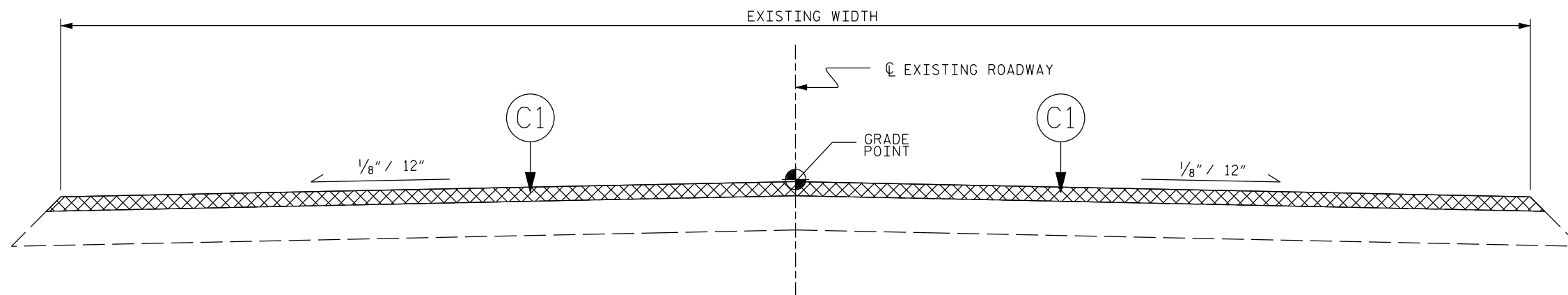
C1 PROPOSED APPROX. 2" MIN. ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1" IN DEPTH OR GREATER THAN 1 1/2" IN DEPTH

PLAN

DECK SCARIFICATION AND HYDRODEMOLITION  
APPROACH MILLING



TYPICAL ROADWAY SECTION



TYPICAL ROADWAY MILLING SECTION

(MILL TO 2" DEPTH)

PROJECT NO. BK-5101R  
COUNTY: MARTIN  
STATION: N/A  
DECK REHAB BRIDGE NO. 39

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

TYPICAL ROADWAY SECTION  
AND MILLING DETAILS  
28'-0" CLEAR ROADWAY-(90°-00' SKEW)

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	6
1			3			TOTAL SHEETS
2			4			6

DRAWN BY : S. T. SANDOR  
CHECKED BY : A. ABRAHA  
DATE : APR./2010  
DATE : APR./2010

\*\*\*\*\*SYSTEMTIME\*\*\*\*\*

\*\*\*\*\*USERNAME\*\*\*\*\*

\*\*\*\*\*DCN\*\*\*\*\*

WBS 42579.3.16

BK-5101R

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED  
TRAFFIC CONTROL

MARTIN COUNTY

LOCATION: BRIDGE NO.39, NC 11/NC 42 OVER  
ROANOKE RIVER

TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE DECK PRESERVATION

STATE PROJECT REFERENCE NO.

BK-5101R

SHEET NO.

TCP-1

LEGEND

GENERAL

- ← DIRECTION OF TRAFFIC FLOW  
→ NORTH ARROW  
— EXIST. PVMT.  
■ WORK AREA

TRAFFIC CONTROL DEVICES

- ▬ TYPE III BARRICADE  
▲ CONE  
● DRUM    ◎ SKINNY DRUM  
⚡ FLASHING ARROW PANEL (TYPE C)  
⌞ PORTABLE SIGN  
⌐ STATIONARY OR PORTABLE SIGN  
◻ CHANGEABLE MESSAGE SIGN  
🚚 TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)  
🚧 FLAGGER

ROADWAY STANDARD DRAWINGS

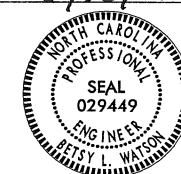
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1150.01	FLAGGING DEVICES
1180.01	SKINNY DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE, TWO-WAY ROADWAYS
1250.01	PAVEMENT MARKER SPACING
1251.01	PERMANENT RAISED PAVEMENT MARKERS

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND INDEX OF SHEETS
TCP-2	GENERAL NOTES
TCP-3	VICINITY MAP AND PHASING
TCP-4	DETAIL FOR TEMPORARY LANE CLOSURES USING FLAGGING OPERATIONS
TCP-5	DETAIL FOR ADVANCE WORK ZONE SIGNING

APPROVED: *Betsy L. Watson*  
DATE: 6/18/10



PLAN PREPARED BY:



Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-6866  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0672

BETSY L. WATSON, PE

TRAFFIC CONTROL ENGINEER

REGINA M. CULLEN

TRANSPORTATION DESIGNER

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

LANE CLOSURE TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME  
NC 11/NC 42

HOLIDAY

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 P.M. DECEMBER 31st TO 6:00 A.M. JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 A.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 7:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY TO 6:00 A.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 7:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY AND 6:00 A.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 P.M. TUESDAY TO 6:00 A.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- B) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

TRAFFIC PATTERN ALTERATIONS

F) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

G) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT. OF THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION

H) ENSURE ALL SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

I) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT. ON-CENTER IN RADII, AND 3 FT. OFF THE EDGE OF AN OPEN TRAVELWAY WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AS SHOWN IN THE PLANS.

PAVEMENT MARKINGS AND MARKERS


J) ON THE FINAL SURFACE OF NC 11/NC 42, INSTALL PAINT PAVEMENT MARKINGS ACCORDING TO RSD 1205.02 AND PERMANENT RAISED PAVEMENT MARKERS ACCORDING TO RSD 1250.01.

K) AT THE END OF EACH NIGHT'S OPERATIONS, REPLACE ANY DAMAGED PAVEMENT MARKINGS ON NC 11/NC 42 WITH TEMPORARY PAINT MARKINGS. PLACE ONE APPLICATION OF PAINT FOR TEMPORARY MARKINGS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

MISCELLANEOUS

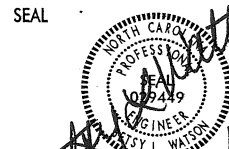
L) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

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Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-8866  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0672


SEAL



7/13/10

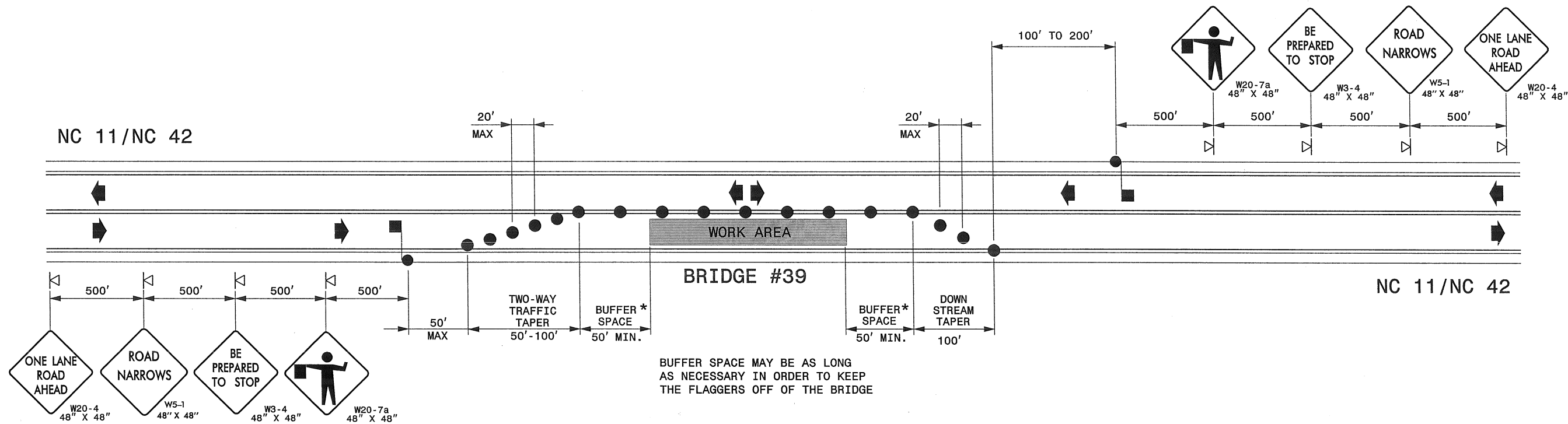
SIGNATURE DATE

GENERAL NOTES

SCALE: NONE		REVISIONS
DATE: JUNE 2010		
DWG. BY: RMC		
DESIGN BY: BLW		
REVIEWED BY: BLW		







#### GENERAL NOTES FOR FLAGGER OPERATIONS

- 1- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
- 2- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 3- PLACE DRUMS THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 4- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER. (REFER TO STD. 1101.11 SHEET 2)
- 5- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- 6- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7a) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER WHERE INTERSECTIONS ARE SIGNALIZED AND PLACE SIGNALS IN THE FLASH MODE.
- 7- FLAGGERS SHALL NOT STAND IN THE ROADWAY.

#### GENERAL NOTES FOR PILOT CAR OPERATIONS

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 2- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A VISIBLE LOCATION ON THE REAR OF THE PILOT VEHICLE.
- 3- ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

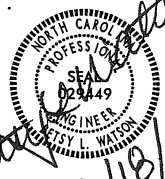
#### LEGEND

- DRUM
- ◁ PORTABLE SIGN
- FLAGGER
- ➔ DIRECTION OF TRAFFIC FLOW



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SEAL



SIGNATURE

DATE

#### TEMPORARY LANE CLOSURES FLAGGING OPERATIONS

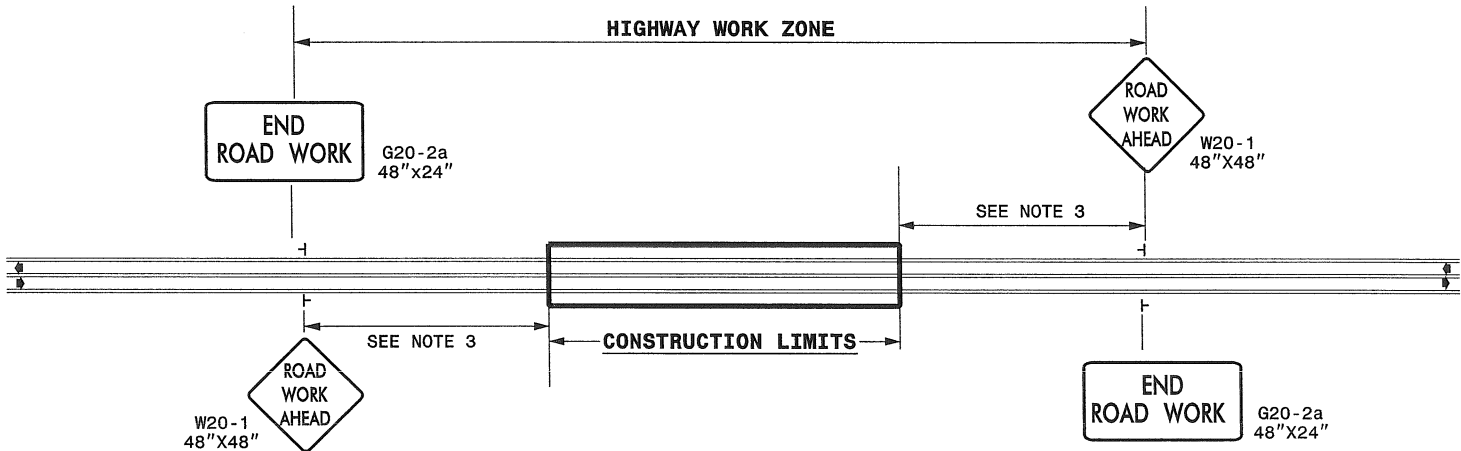
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DATE: JUNE 2010  
DWG. BY: RMC  
DESIGN BY: BLW  
REVIEWED BY: BLW



#### REVISIONS

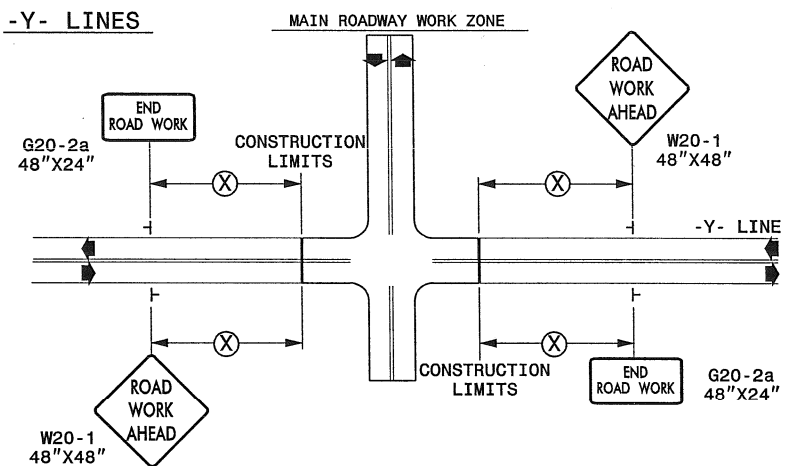
CADD  
FILE

TWO-WAY UNDIVIDED \*\* (L-LINES)



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

DETAIL DRAWING FOR  
TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

GENERAL NOTES

- 1- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- 2- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- 3- UNLESS OTHERWISE DIRECTED BY THE ENGINEER, MOUNT STATIONARY "ROAD WORK AHEAD" SIGNS W20-1 AT LEAST 500' IN ADVANCE OF "ONE LANE ROAD AHEAD" SIGNS W20-4.
- 4- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE; FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- 5- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- 6- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- 7- DO NOT BACK BRACE SIGN SUPPORTS.

LEGEND

└ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

6/17/2010  
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Foullien

Stantec

Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-8866  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0672

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

SEAL

DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS  
ADVANCED WORK ZONE WARNING SIGNS

SCALE: NONE

DATE: \_\_\_\_\_

DWG. BY: \_\_\_\_\_

DESIGN BY: \_\_\_\_\_

REVIEWED BY: \_\_\_\_\_

REVISIONS

CADD FILE