

TYPICAL SECTION

-	TOTAL BILL OF MATERIAL						
	PLACEMENT OF EPOXY/STONE OVERLAY	EVAZOTE JOINT SEALS	* CLASS II CONCRETE DECK REPAIRS FOR EPOXY OVERLAY	ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C	DECK EXPANSION JOINT		
	SQ.FT.	LUMP SUM	SO.FT.	TONS	LUMP SUM		
	42076	LUMP SUM	88	20	LUMP SUM		
	N. ECTIMATED OU	NITTLY CEE CDEC	TAL DROUTSTONS	•			

\* ESTIMATED QUANTITY. SEE SPECIAL PROVISIONS.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH PLAN VIEW & TYPICAL

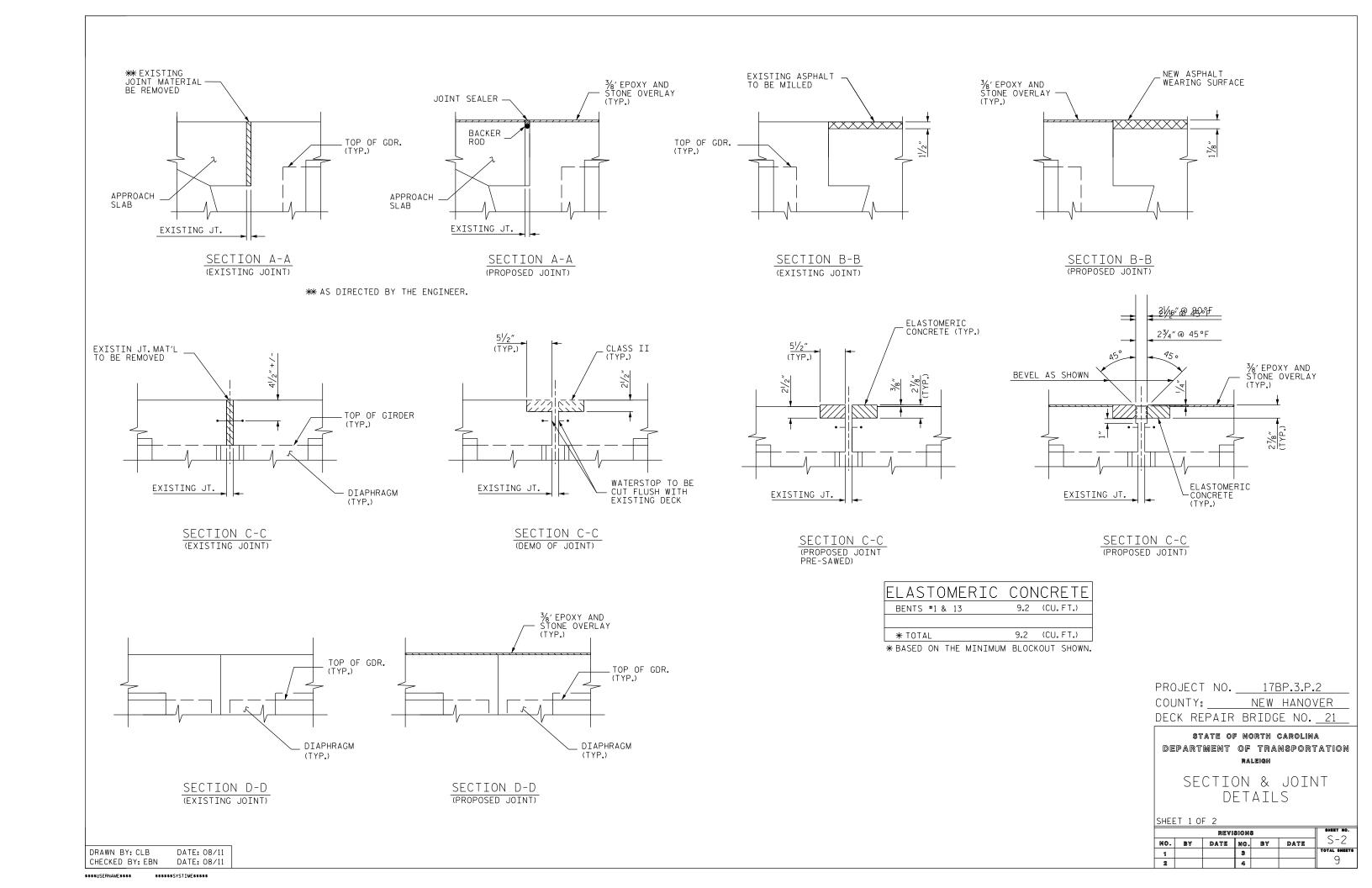
SECTION OF BRIDGE #21, ON US 76 OVER BANKS CHANNEL

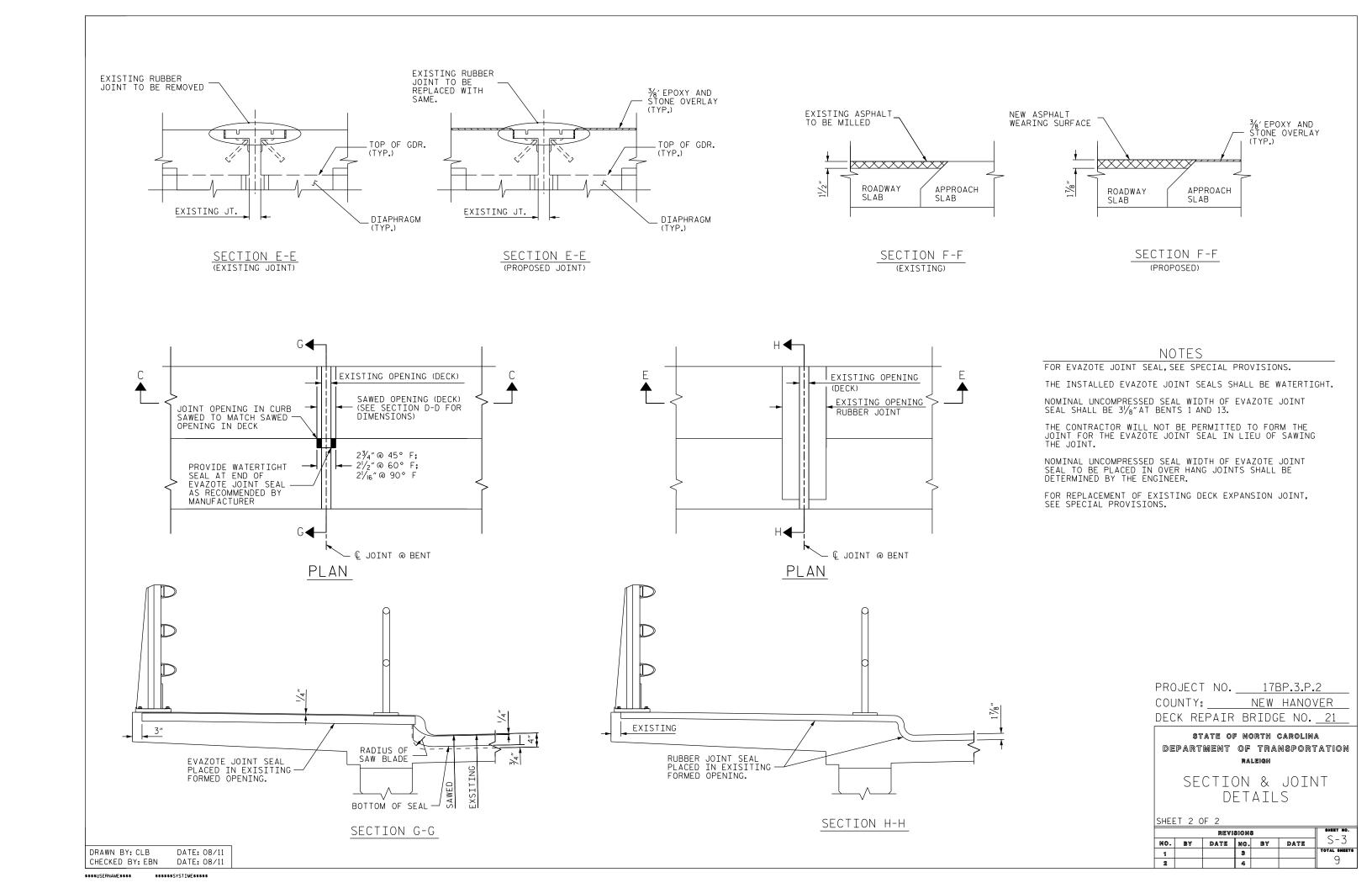
48'-0"CL.RDWY 90° SKEW REVISIONS

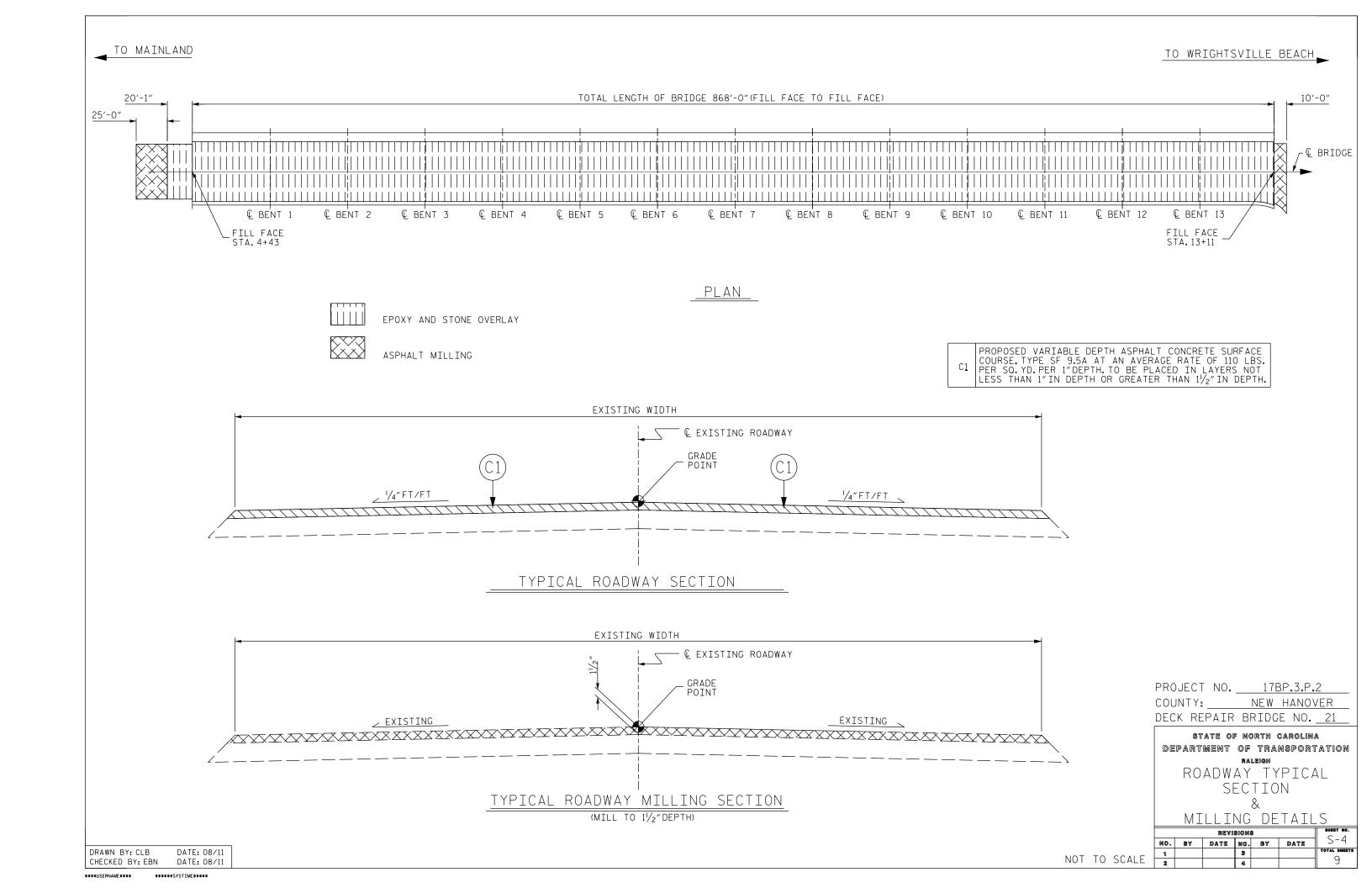
S-1 NO. BY DATE NO. BY DATE 9

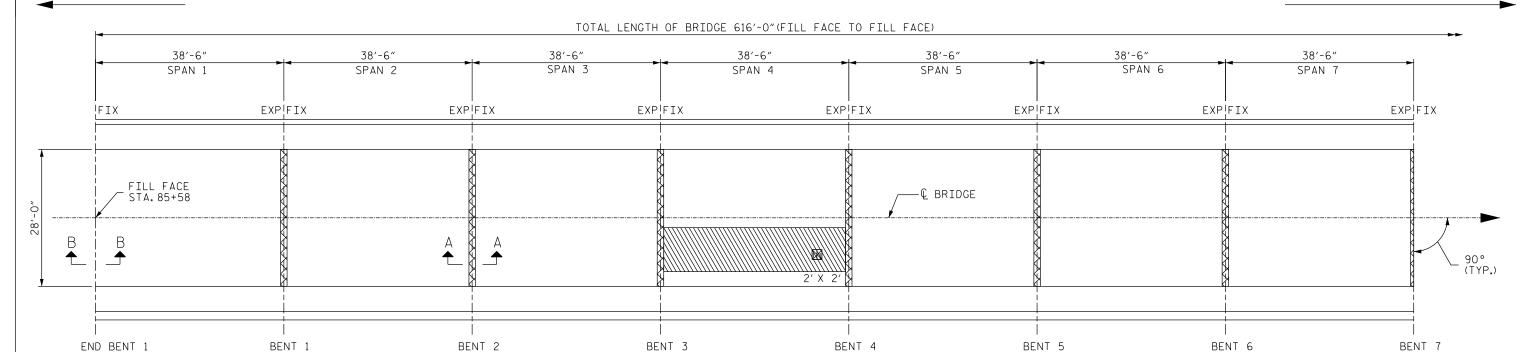
DRAWN BY: CLB DATE: 08/11 CHECKED BY: EBN DATE: 08/11

\$\$\$\$USERNAME\$\$\$\$ \$\$\$\$\$\$\$SYSTIME\$\$\$\$\$









APPROX. AREA: POSSIBLE CLASS I REPAIR DUE TO LOW REBAR COVERAGE

APPROX. AREA: CLASS II REPAIR

## NOTES

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

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.

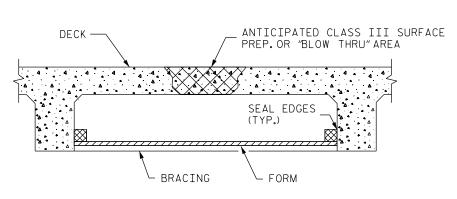
FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS .

FOR UNDER DECK CONTAINMENT SEE SPECIAL PROVISIONS. THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF

RUN -OFF WATER FROM THE HYDRO- DEMOLITION PROCESS, SEE SPECIAL PROVISIONS.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

# PLAN



## TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

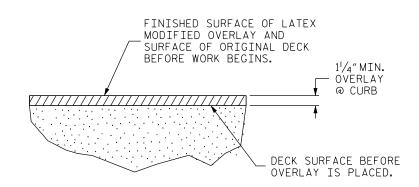
A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

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

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

	TOTAL BILL OF MATERIAL								
** SCARIFYING BRIDGE DECK	* CLASS I SURFACE PREPARATION	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	HYDRO- DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE OVERLAY	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS	ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C
SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	C.Y.	SQ.YDS.	LUMP SUM	SQ.FT.	TONS
2539	186	43	0	1916	93	1874	LUMP SUM	17248	86

\* QUANTITY SHOWN IS FOR INFORMATION ONLY. \*\* INCLUDES APPROACH MILLING.



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

PROJECT NO. \_\_\_\_17BP.3.P.2 COUNTY: NEW HANOVER DECK REPAIR BRIDGE NO. 24

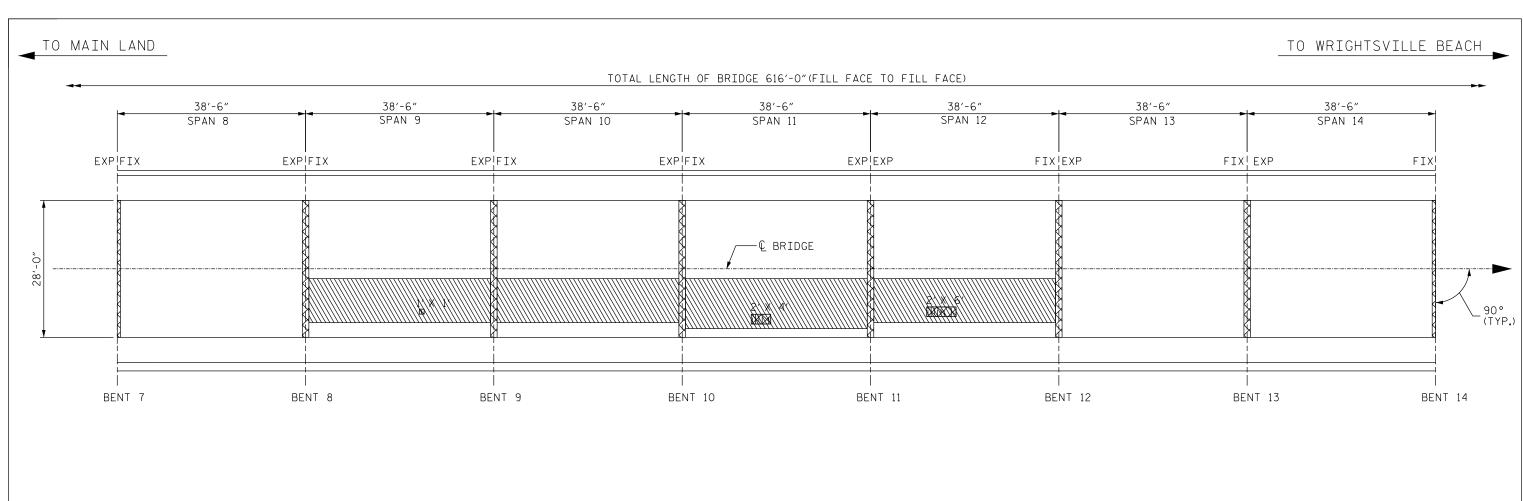
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

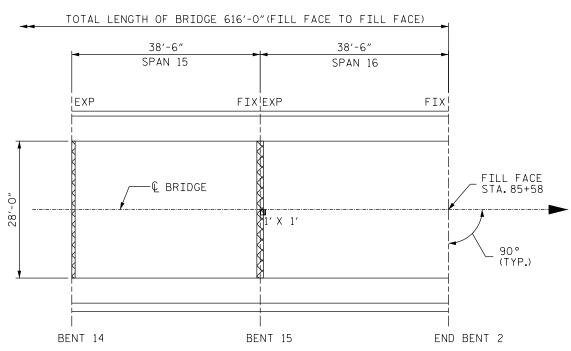
PLAN VIEW OF BRIDGE #24. ON US 74 OVER BANKS CHANNEL 28'-0"CL.RDWY 90° SKEW

REVISIONS					C	
NO.	BY	DATE	NO.	BY	DATE	5-5
1			3			TOTAL SMEETS
2			43			9

DRAWN BY: CLB

DATE: 08/11





PROJECT NO. 17BP.3.P.2

COUNTY: NEW HANOVER

DECK REPAIR BRIDGE NO. 24

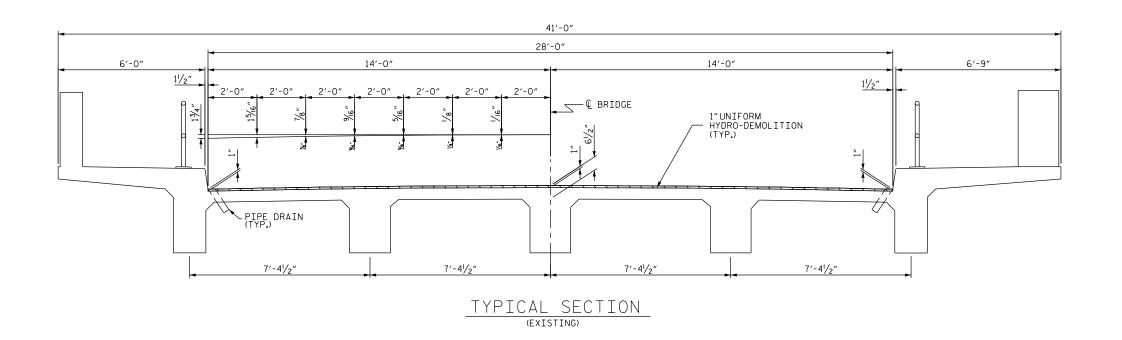
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

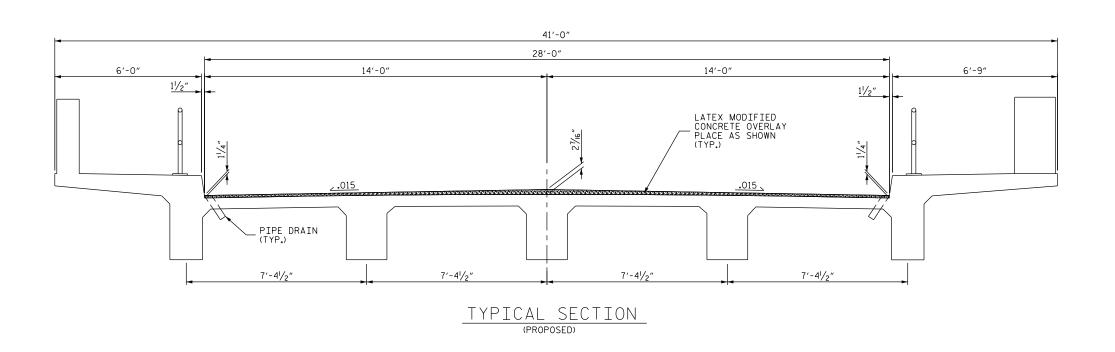
PLAN VIEW OF BRIDGE #24, ON US 74 OVER BANKS CHANNEL

28'-0"CL.RDWY 90° SKEW

DRAWN BY: CLB DATE: 08/11 CHECKED BY: EBN DATE: 08/11

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PROJECT NO. <u>17BP.3.P.2</u>
COUNTY: <u>NEW HANOVER</u>
DECK REPAIR BRIDGE NO. <u>24</u>

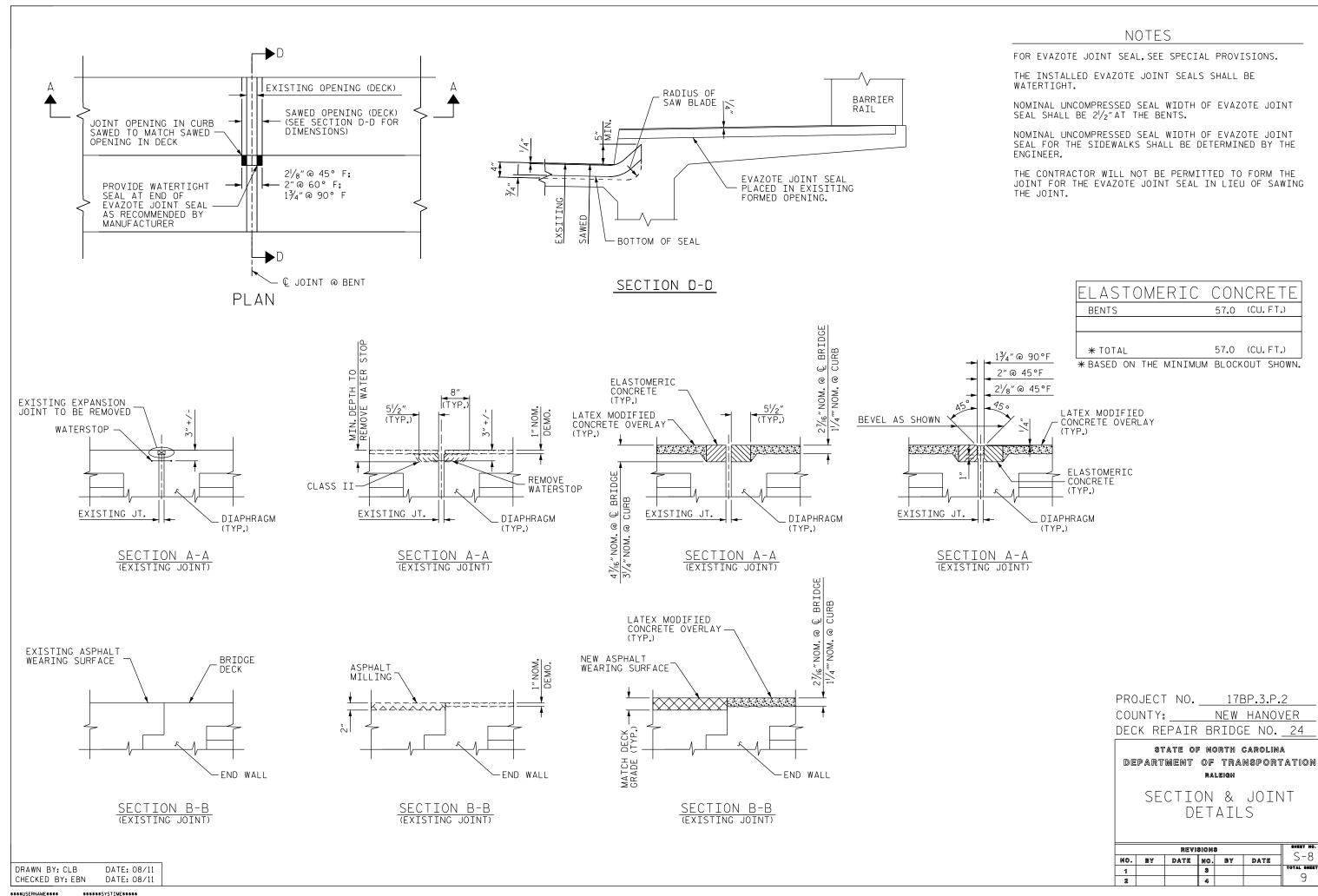
STATE OF NORTH CAROLINA
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RALEIGH

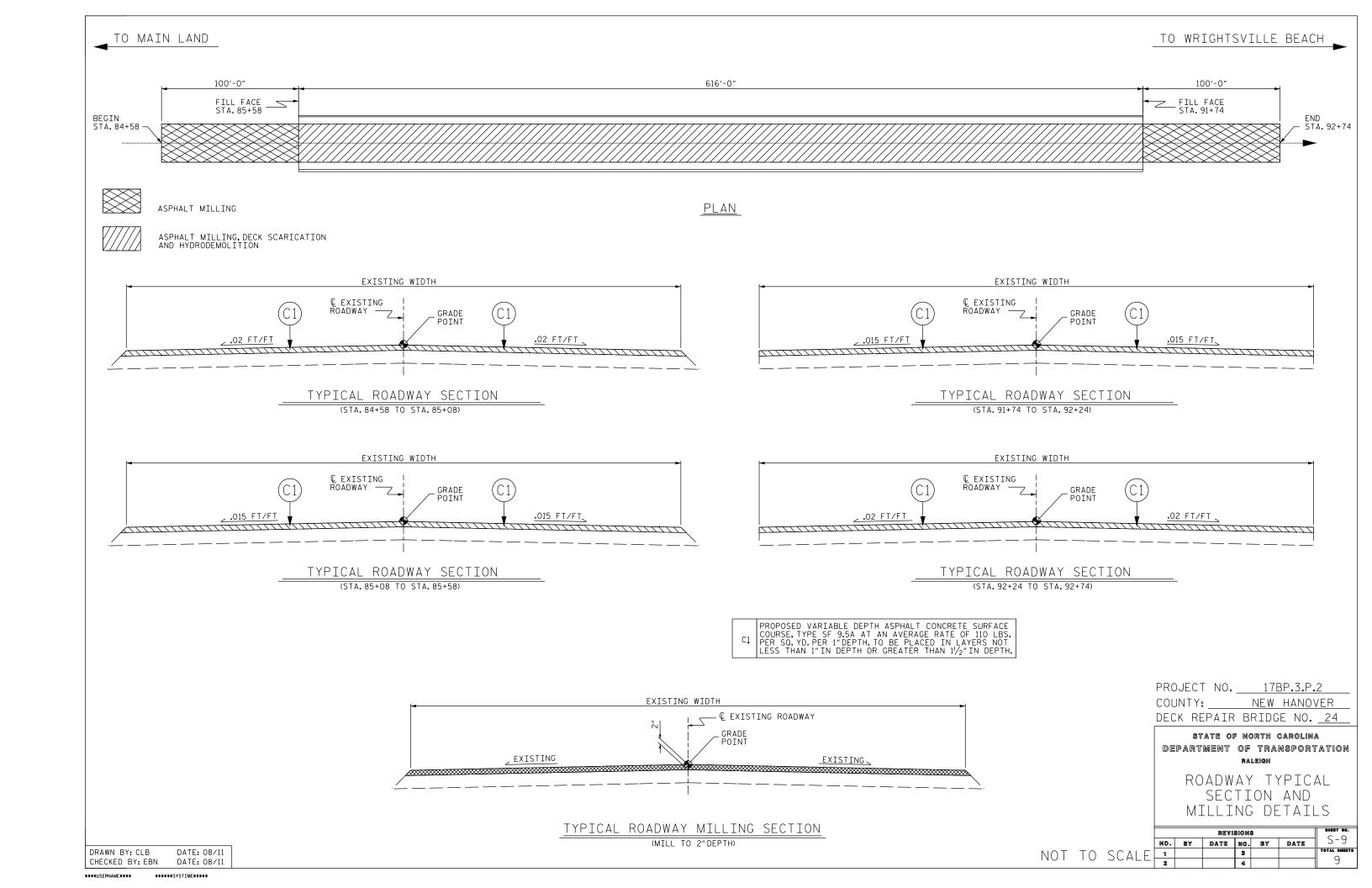
TYPICAL SECTION

28'-0"CL.RDWY 90° SKEW

revisions					C 7	
NO.	BY	5-1				
1			3			TOTAL SHEETS
2			4			9

DRAWN BY: CLB DATE: 08/11 CHECKED BY: EBN DATE: 08/11





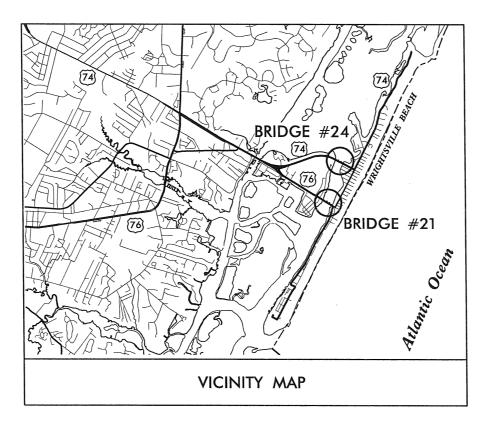
# TRANSPORTATION MANAGEMENT PLAN

# NEW HANOVER COUNTY

**DIVISION** 3



BRIDGE #21 - US 76 OVER BANKS CHANNEL BRIDGE #24 - US 74 OVER BANKS CHANNEL





PLAN PREPARED FOR NCDOT BRIDGE MANAGEMENT UNIT RALEIGH, NC



# INDEX OF SHEETS

TITLE TITLE SHEET, INDEX, TRAFFIC MANAGEMENT STRATEGY TMP-1

3

M

TMP-1A LIST OF ROADWAY STANDARD DRAWINGS AND LEGEND TMP-2 GENERAL NOTES TRAFFIC CONTROL PHASING

TMP-4,4A BRIDGE #24 US 74 ROAD CLOSURE BRIDGE #24 US 74 DETOUR ROUTE SIGNING

SHEET NO.

TMP-1

TMP-6 BRIDGE #21 US 76 EAST RIGHT LANE CLOSURE TMP-7 BRIDGE #21 US 76 WEST RIGHT LANE CLOSURE

TMP-8 BRIDGE #21 US 76 EAST/US 76 WEST LEFT LANE CLOSURES TMP-9 BRIDGE #21 US 76 WEST WAYNICK BLVD. LEFT LANE CLOSURE

TMP-10 BRIDGE #21 CLOSURE OF US 76 WEST LANES WITH 1-LANE, 2-WAY TRAFFIC ON US 76 EAST.

BRIDGE #21 CLOSURE OF US 76 EAST LANES WITH 1-LANE, TMP-11

2-WAY TRAFFIC ON US 76 WEST.

# TRAFFIC MANAGEMENT STRATEGY

US 76 BRIDGE #21 DECK PRESERVATION TO BE PERFORMED UNDER TIME RESTRICTED LANE CLOSURES.

US 74 BRIDGE #24 DECK PRESERVATION TO BE PERFORMED UNDER ROAD CLOSURE WITH AN INTERMEDIATE CONTRACT TIME.



BETSY L. WATSON, P.E.

GEORGE KARAGEORGE



# **LEGEND**

## **GENERAL**

DIRECTION OF TRAFFIC FLOW

DIRECTION OF PEDESTRIAN TRAFFIC FLOW

PAVEMENT REMOVAL WORK AREA

NORTH ARROW

## TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III)

DRUM SKINNY DRUM STUBULAR MARKER

FLASHING ARROW PANEL (TYPE C)

FLAGGER

LAW ENFORCEMENT

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

CHANGEABLE MESSAGE SIGN (CMS)

PORTABLE CONCRETE BARRIER (PCB)

TEMPORARY CRASH CUSHION

#### TEMPORARY SIGNING

PORTABLE SIGN

STATIONARY SIGN

STATIONARY OR PORTABLE SIGN

### SIGNALS







## PAVEMENT MARKINGS

EXISTING PAVEMENT MARKING (GRAY)

— — SKIP LINES

- - - - - MINI-SKIP LINES ----- SOLID LINES

## PAVEMENT MARKING SYMBOLS

↑ ↑ ↑ PAVEMENT MARKING SYMBOLS

EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)

NY PAVEMENT MARKING ALPHANUMERIC CHARACTERS

### PAVEMENT MARKERS

CRYSTAL/CRYSTAL

CRYSTAL/RED

♦ YELLOW/YELLOW

PROJ. REFERENCE NO. SHEET NO. 17BP.3.P.2 TMP-1A

# ROADWAY STANDARD DRAWINGS

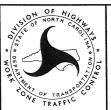
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02 1101.04	TEMPORARY LANE CLOSURES TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01 1110.02	STATIONARY WORK ZONE SIGNS PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS DRUMS
1130.01 1135.01	CONES
1145.01 1150.01	BARRICADES FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01 1205.01	SKINNY DRUMS PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02 1205.04	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06 1205.07	PAVEMENT MARKINGS - THRU-LANE DROPS PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1250.01 1251.01	PAVEMENT MARKER SPACING RAISED PAVEMENT MARKERS



Stantec Consulting Servic 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024





LEGEND

ROADWAY STANDARD DRAWINGS

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.

#### LANE CLOSURE TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

US 74 AND US 76 DAY AND TIME RESTRICTIONS FOR SINGLE LANE CLOSURES

6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M.-6:00 P.M. MONDAY THRU FRIDAY

US 76 DAY AND TIME RESTRICTIONS FOR MULTIPLE LANE CLOSURES AS SHOWN ON SHEETS TMP 10-11

5:00 A.M.-11:30 P.M. MONDAY THRU SUNDAY (EVERYDAY)

HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND HOLIDAY WEEKENDS AS FOLLOWS:

#### ROAD NAME ALL ROADS

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

#### SPECIAL EVENT LANE CLOSURE TIME RESTRICTIONS

- C) DO NOT CLOSE OR NARROW TRAVEL LANES DURING THE FOLLOWING SPECIAL EVENTS, FROM 4 HOURS BEFORE TO 4 HOURS AFTER THE EVENT AS DIRECTED BY THE ENGINEER:
- 1) SATURDAY OCTOBER 1, 2011 LOOP WALK FOR NEUROFIBROMATUSIS
- 2) SATURDAY OCTOBER 29, 2011 BEACH 2 BATTLESHIP
- 3) SATURDAY NOVEMBER 5, 2011 EASTER SEALS/UCP LOOP WALK
- 4) SATURDAY NOVEMBER 12 HOLIDAY FLOTILLA 5K FUN RUN
- 5) THURSDAY NOVEMBER 24, 2011 TURKEY TROT
- 6) SATURDAY DECEMBER 17, 2011 JINGLE BELL 5K RUN

#### LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- F) 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.
- G) INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- H) 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.
- I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- J) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER
  ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL
  LANE, CLOSE THE NEAREST OPEN TRAVEL LANE UNLESS THE WORK AREA IS
  PROTECTED BY BARRIER OR GUARDRAIL.
- K) UNLESS OTHERWISE SHOWN IN THE PLANS, PLACE ARROW PANELS ON THE ROADWAY SHOULDER. IF SHOULDERS DO NOT EXIST, PLACE ARROW PANELS WITHIN THE MERGE TAPER BEHIND THE CHANNELIZING DEVICES OF THE LANE CLOSURE. IF NEEDED, EXTEND LANE CLOSURES TO PROVIDE STOPPING SIGHT DISTANCE TO THE ARROW PANEL (REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEET 2).
- L) PLACE LANE CLOSURE DRUMS IN TAPERS AT A MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT (MPH). ALONG BUFFER SPACES AND WORK AREAS SPACE DRUMS AT A MAXIMUM SPACING EQUAL IN FEET TO TWICE THE POSTED SPEED LIMIT (MPH). IN ALL CASES, CHANNELIZING DEVICES ARE TO BE SPACED IN SUCH A MANNER AS TO POSITIVELY ACHIEVE THE INTENDED VISUAL CHANNELIZATION. CHANNELIZING DEVICES SHOULD BE LATERALLY OFFSET 3 FT INSIDE THE CLOSED LANE AS ROOM PERMITS.

#### ROAD CLOSURES

- M) PROVIDE SIGNING AND DEVICES FOR ROAD CLOSURES ACCORDING TO THE TRAFFIC MANAGEMENT PLAN. COVER OR REMOVE ALL SIGNS AND DEVICES FOR ROAD CLOSURES WHEN NOT IN EFFECT.
- N) PROVIDE OFFSITE DETOUR ROUTE SIGNING AS SHOWN IN THE TRAFFIC MANAGEMENT PLAN. COVER OR REMOVE OFFSITE DETOUR SIGNING WHEN THE DETOUR IS NOT IN OPERATION. ALL OFFSITE DETOUR ROUTES MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTING.
- O) WHEN CLOSING A ROADWAY OR DRIVEWAY PLACE TYPE III BARRICADES
  COMPLETELY ACROSS THE ROADWAY OR FROM CURB TO CURB. ATTACH BARRICADE
  MOUNTED "ROAD CLOSED" SIGN R11-2 AT ALL CLOSURE LOCATIONS. IF LOCAL
  TRAFFIC IS TO BE MAINTAINED STAGGER THE BARRICADES TO ALLOW ACCESS.
- P) INSTALL SIGNS BEFORE BARRICADES WHEN CLOSING A ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING A ROADWAY TO TRAFFIC. INSTALL/REMOVE ROAD CLOSURE SIGNS AND BARRICADES IN A CONTINUOUS OPERATION AND WITHIN THE SAME CALENDAR DAY.

#### PAVEMENT MARKINGS AND MARKERS

- Q) RECORD ALL LOCATIONS AND TYPES OF EXISTING PAVEMENT MARKINGS AS THEY WILL BE REPLACED IN THE SAME LOCATION ON THE NEW SURFACE. IN ADDITION, ON US 76 EASTBOUND AT BRIDGE #21 ADD 2 SETS OF "ONLY" CHARACTERS TO THE RIGHT TURN LANE DROP.
- R) UPON COMPLETION OF ALL OTHER CONSTRUCTION OPERATIONS INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME US 74, US 76 MARKING POLYUREA/COLD APPL PAVEMENT MARKER PERMANENT RAISED

S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING

#### MISCELLANEOUS

I TNES.

- T) USE LAW ENFORCEMENT TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER. LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE AND MAY BE REVISED AS THE OFFICER OR THE ENGINEER DEEM NECESSARY.
- U) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- V) MAINTAIN DRIVEWAY ACCESS AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- W) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

Stantec

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GENERAL NOTES

PROJ. REFERENCE NO. SHEET NO. 17BP.3.P.2 TMP-3

# TRAFFIC CONTROL PHASING

US 74 BRIDGE #24

INTERMEDIATE CONTRACT TIME

PERFORM THE WORK FOR BRIDGE #24 BETWEEN OCTOBER 2, 2011 AND OCTOBER 27, 2011.

IMPLEMENT A DETOUR AND ROAD CLOSURE FOR US 74 AT BRIDGE #24 AS SHOWN ON SHEETS TMP-4, 4A, 5.

STEP 2:

WITH US 74 CLOSED TO TRAFFIC PERFORM ALL BRIDGE DECK OPERATIONS. PRIOR TO OPENING THE ROADWAY TO TRAFFIC, PLACE FINAL PAVEMENT MARKINGS OR PAINT UNTIL FINAL MARKINGS ARE PLACED.

STEP 3:

UPON COMPLETION OF BRIDGE WORK REMOVE THE ROAD CLOSURE AND DETOUR SIGNS AND OPEN US 74 TO TRAFFIC.

US 76 BRIDGE #21

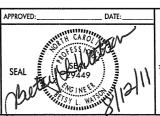
PERFORM BRIDGE #21 DECK OPERATIONS USING LANE CLOSURES AS

FOR SINGLE RIGHT OR LEFT LANE CLOSURES REFER TO SHEETS TMP 6-9.

FOR RIGHT LANE CLOSURES IN COMBINATION WITH FLAGGERS WHERE TRAFFIC IS PLACED IN A ONE-LANE, TWO-WAY PATTERN ON EACH SIDE OF US 76 REFER TO SHEETS TMP 10-11. USE THIS METHOD ONLY IF APPROVED BY THE ENGINEER.

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TRAFFIC CONTROL PHASING

