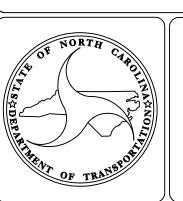
4700ALŔ PROJECT:





DESIGN DATA

1369

1218

PROJECT LENGTH

BRIDGE MANA	GEMENT UNIT		
2006 STANDARD SPECIFICATIONS			
LETTING DATE: JANUARY 21, 2010	DAN HOLDERMAN, PE STATE BRIDGE MANAGEMENT ENGINEER		
MIKE SUMMERS			

	MANAGEMENT ENGINEER				
AIKE SUMMERS					
	ANAGEMENT MANAGER				

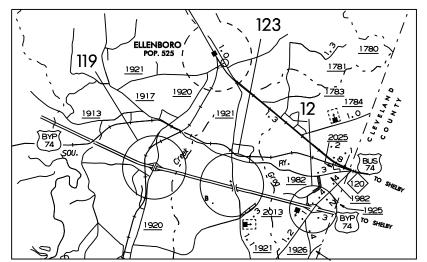
STATE	STATI	E PROJECT REPERENCE NO.	_	SHEET NO.	SHEE
N.C.	B	3-4700AL		1	1
STATE PRO	I. NO.	F. A. PROJ. NO.		DESCRIP	TION
36727	.1.1	BRNHS-000S(504)		P.E.	
36727.3	3.36	BRNHS-000S(370)		CON	ST

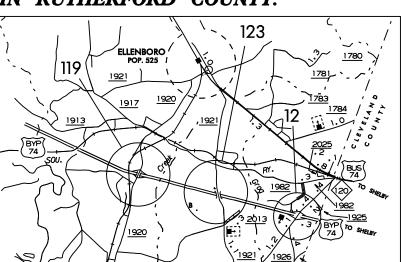
RUTHERFORD COUNTY

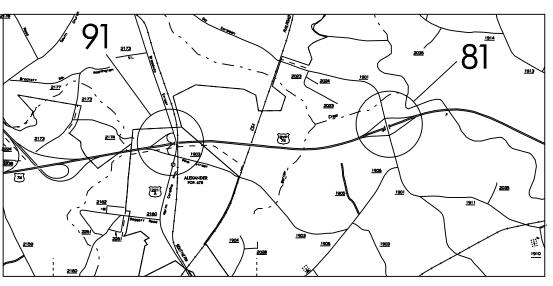
LOCATION: US 64/74A, SR 2169, SR 1920, SR 1921, NC 120, US 221A, SR 1901, ACROSS US 74B, US 74A, US 74BYP, TYPE OF WORK: BRIDGE PRESERVATION:CLÉANING & PAINTING OF EXISTING BRIDGES #12, #14, #81, #91, #117, #119, AND #123 IN RUTHERFORD COUNTY.

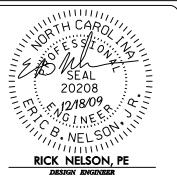
STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS









STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PLAN FOR PROPOSED TRAFFIC CONTROL

RUTHERFORD COUNTY

LOCATION: BRIDGE NO.S 12, 14, 81, 91, 117, 119, AND 123.

TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE PAINTING

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
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY-DRUM

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 PROJECT PHASING
TCP-4	DETAIL FOR RIGHT AND LEFT LANE CLOSURES FOR US 74 AND US 74A
TCP-5	DETAIL FOR TREATMENT OF RIGHT LANE CLOSURES IN THE VICINITY OF EXIT RAMPS
TCP-6	DETAIL FOR TREATMENT OF RIGHT LANE CLOSURES IN THE VICINITY OF EXIT RAMPS
TCP-7	DETAIL FOR TREATMENT OF RIGHT LANE CLOSURES IN THE VICINITY OF ENTRANCE RAMPS

LEGEND

STATE PROJECT REFERENCE NO

B-4700AL

SHEET NO.

TCP-1

GENERAL

◆ DIRECTION OF TRAFFIC FLOW

NORTH ARROW

WORK AREA

TRAFFIC CONTROL DEVICES

TYPE III BARRICADE

▲ CONE

SKINNY DRUM

FLASHING ARROW PANEL (TYPE C)

- STATIONARY SIGN

PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

- - PORTABLE CONCRETE BARRIER

---- TEMPORARY CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

POLICE

___ FLAGGER



PLAN PREPARED BY:



Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com

BETSY L. WATSON, PE

KELLIE L. WIESKAMP, EI

TRAFFIC CONTROL ENGINEER 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

LANE CLOSURE TIME RESTRICTIONS

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

ROAD NAME

US 74 ALT

DAY AND TIME RESTRICTIONS

US 221 N. MAIN ST.

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

ΔND

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

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

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

IIS 74 FROM IIS 74 ALT TO 1 MILE EAST OF SR 1901

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

(BRIDGES 91 AND 81)

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

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

ROAD NAME ALL ROADS

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 6:00 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 6:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 P.M. FRIDAY TO 6:00
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 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 6:00 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 6:00 P.M. FRIDAY AND 6:00 A.M.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 P.M. TUESDAY TO 6:00 A.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 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

- C) 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.
- D) 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.
- E) 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 USING ROADWAY STANDARD DRAWING 1101.01, SHEET 1 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

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 USING SHEET TCP-4 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- F) 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.
- G) 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.
- H) DO NOT INSTALL MORE THAN 4 MILES OF LANE CLOSURE ON US 74 OR US 74 ALT. MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- I) DO NOT INSTALL MORE THAN 2 SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON US 74 OR US 74 ALT.
- J) PROVIDE A MINIMUM OF 1 MILE BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

TRAFFIC PATTERN ALTERATIONS

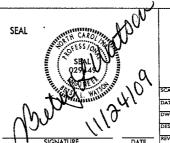
K) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

L) ENSURE ALL SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC

MISCELLANEOUS

- M) DO NOT PERFORM WORK FROM THE ROADWAY ON TOP OF THE STRUCTURE.
- N) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.





PROJECT NOTES **GENERAL NOTES**

NONE NOV. 2009 KLW REVIEWED BY:



REVISIONS

.ggd., inctrafficcontrol/B-4700AL Rutherford/ICP/Plan Sheets\ amo

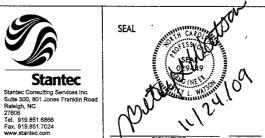
STEP 2:

CLOSE THE SHOULDER.

UPON COMPLETION OF THE PROJECT, REMOVE ALL TRAFFIC CONTROL DEVICES.

LANE CLOSURES. WHEN NOT BEING USED TO CLOSE A LANE, DRUMS MAY EITHER BE

TOTALLY REMOVED OR BE MOVED TO OUTSIDE OF SHOULDER SUCH THAT THEY DO NOT



RUTHERFORD COUNTY BRIDGE PAINTING VICINITY MAP TRAFFIC CONTROL PHASING

PROJECT REFERENCE NO.

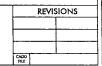
SHEET NO.

TCP-3

ALE:	NONE	
	NOV. 2009	
VG. BY:	KLW	
SIGN E	BLM	
VIEWED	BY: BLW	

DATE

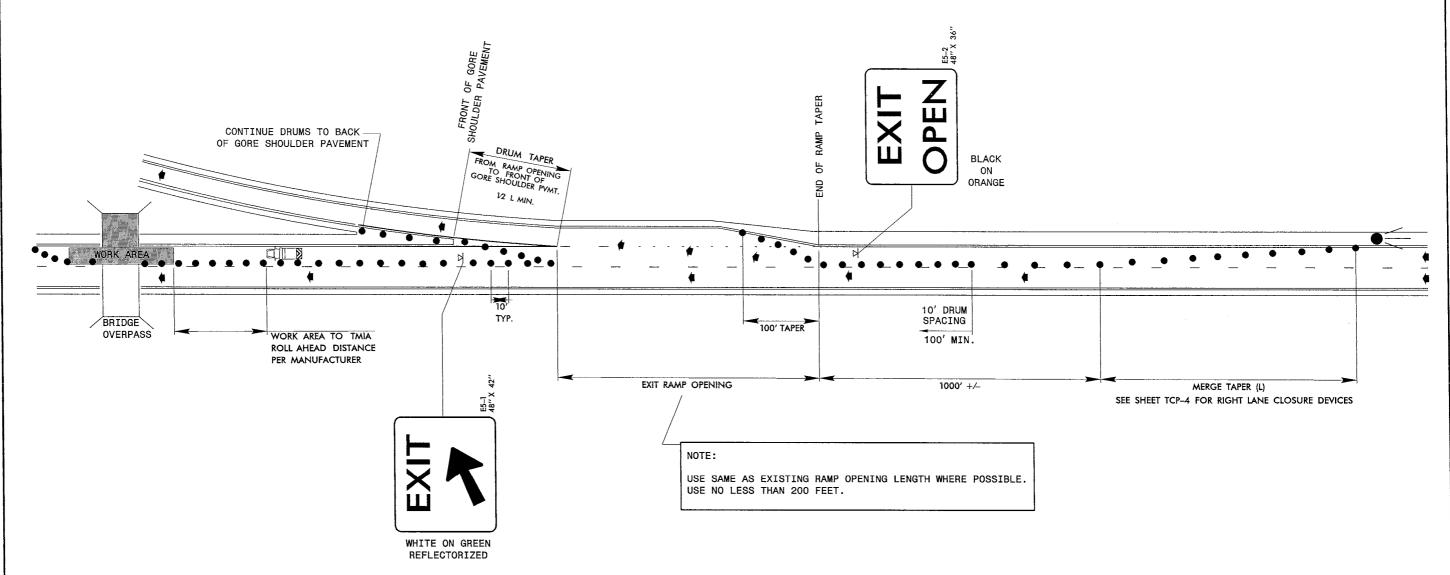




PROJECT REFERENCE NO.

SHEET NO.

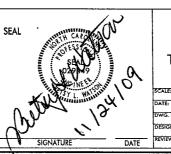
TYPICAL RIGHT LANE CLOSURE THROUGH VICINITY OF EXIT RAMP



NOTES

- 1. USE THE ABOVE DETAIL IN CONJUNCTION WITH A RIGHT LANE CLOSURE AS SHOWN ON SHEET TCP-4 FOR EXIT RAMPS IN ADVANCE OF BRIDGES #14 (US 74A EB/WB RAMPS TO OAKLAND RD.), #91 (US 74 EB RAMP TO US 221A S. BROADWAY ST.), #81 (US 74 EB/WB RAMPS TO OLD CAROLEEN RD.), #119 (US 74 EB/WB RAMPS TO ELLENBORO-HENRIETTA RD.) AND #12 (US 74 EB/WB RAMPS TO NC 120).
- MOUNT EXIT SIGN(E5-1) AND EXIT OPEN SIGN(E5-2) A MINIMUM OF 7 FEET FROM THE PAVEMENT SURFACE TO THE BOTTOM OF THE SIGN.
- REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEETS 1, 2 & 4 FOR TRAFFIC CONTROL DESIGN TABLES.





TYPICAL RIGHT LANE CLOSURE THROUGH VICINITY OF EXIT RAMP



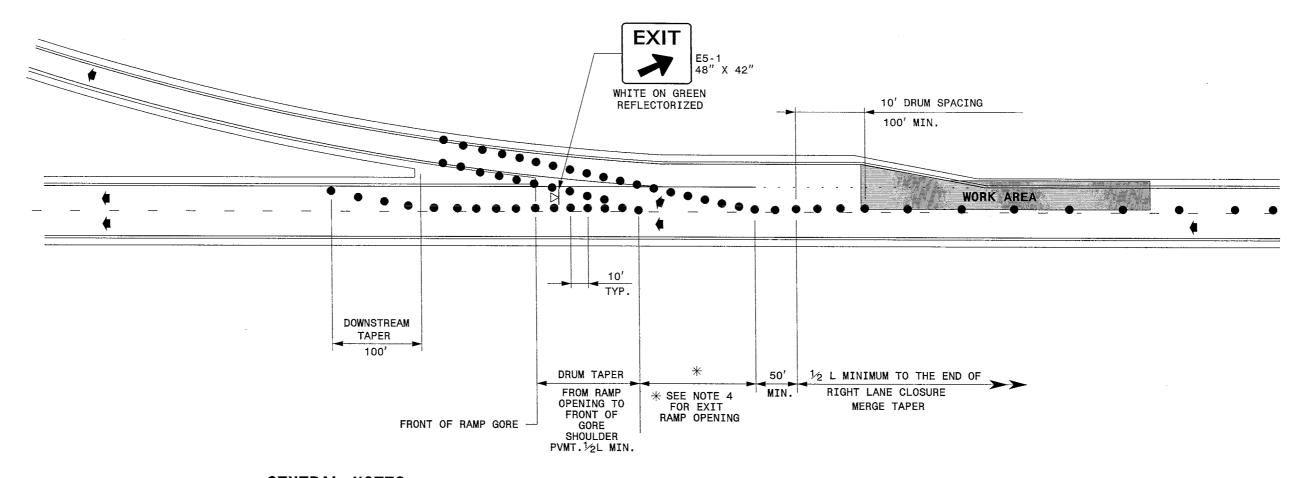
REVISIONS

CADO | FIRE |

UNITERFICATION Sheets\B-4700AL Rutherford\ICP\Plan Sheets\B-4700K

PROJECT REFERENCE NO. SHEET NO.

B-4700AL TCP-6



GENERAL NOTES

- 1-USE THE ABOVE DETAILS IN CONJUNCTION WITH A RIGHT LANE CLOSURE AS SHOWN ON SHEET TCP-4.
- 2-MOUNT EXIT SIGNS A MINIMUM OF 7 FEET ABOVE THE PAVEMENT ELEVATION.
- 3-USE THE ABOVE DETAIL FOR LANE CLOSURES ALONG I-40 FOR THE FOLLOWING SITUATION:

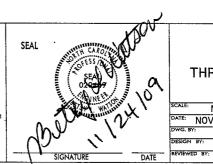
BRIDGE NO. 91: US 74 WB LOOP TO US 221 ALT. (S. BROADWAY ST.)

 \pm 4- USE EXISTING RAMP OPENING LENGTH WHERE POSSIBLE. USE NO LESS THAN $\frac{1}{2}$ ORIGINAL LENGTH. IF $\frac{1}{2}$ ORIGINAL LENGTH CANNOT BE OBTAINED, CONTACT THE WORK ZONE TRAFFIC CONTROL UNIT FOR FURTHER GUIDANCE.

LEGEND

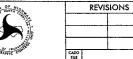
- TRUCK MOUNTED IMPACT ATTENUATOR
 - DRUM
 - PORTABLE SIGN
 - DIRECTION OF TRAFFIC FLOW





TYPICAL
RIGHT LANE CLOSURE
THROUGH VICINITY OF EXIT RAMP

NONE	ON OF HIC
V. 2009	
KLW	
BLW	
BLW	TRAINC CO



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