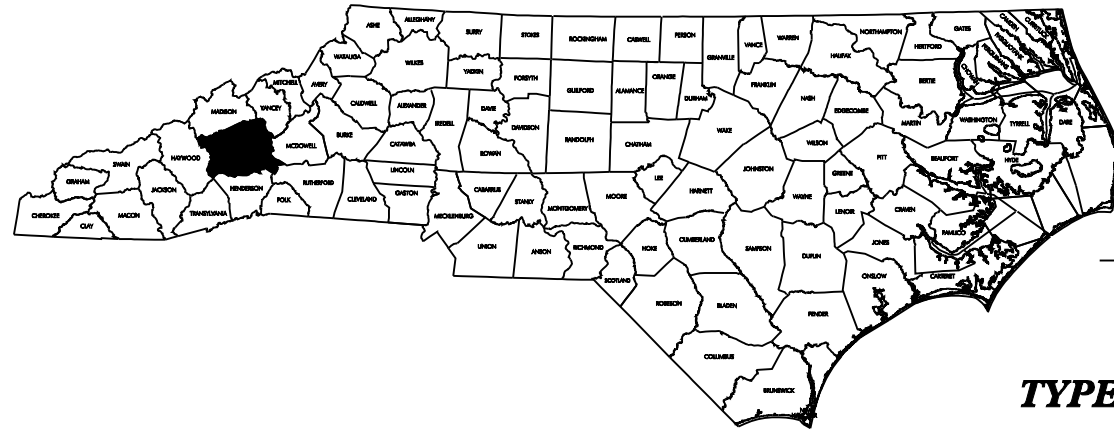


**CONTRACT NO. D000026 TIP PROJECT: B-4700AP**

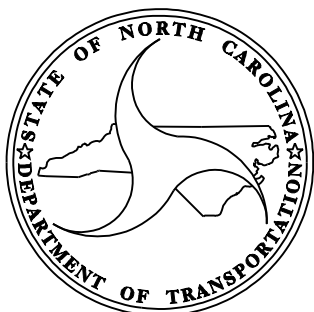
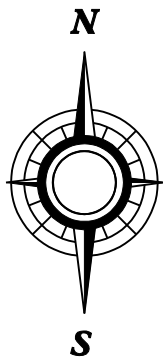
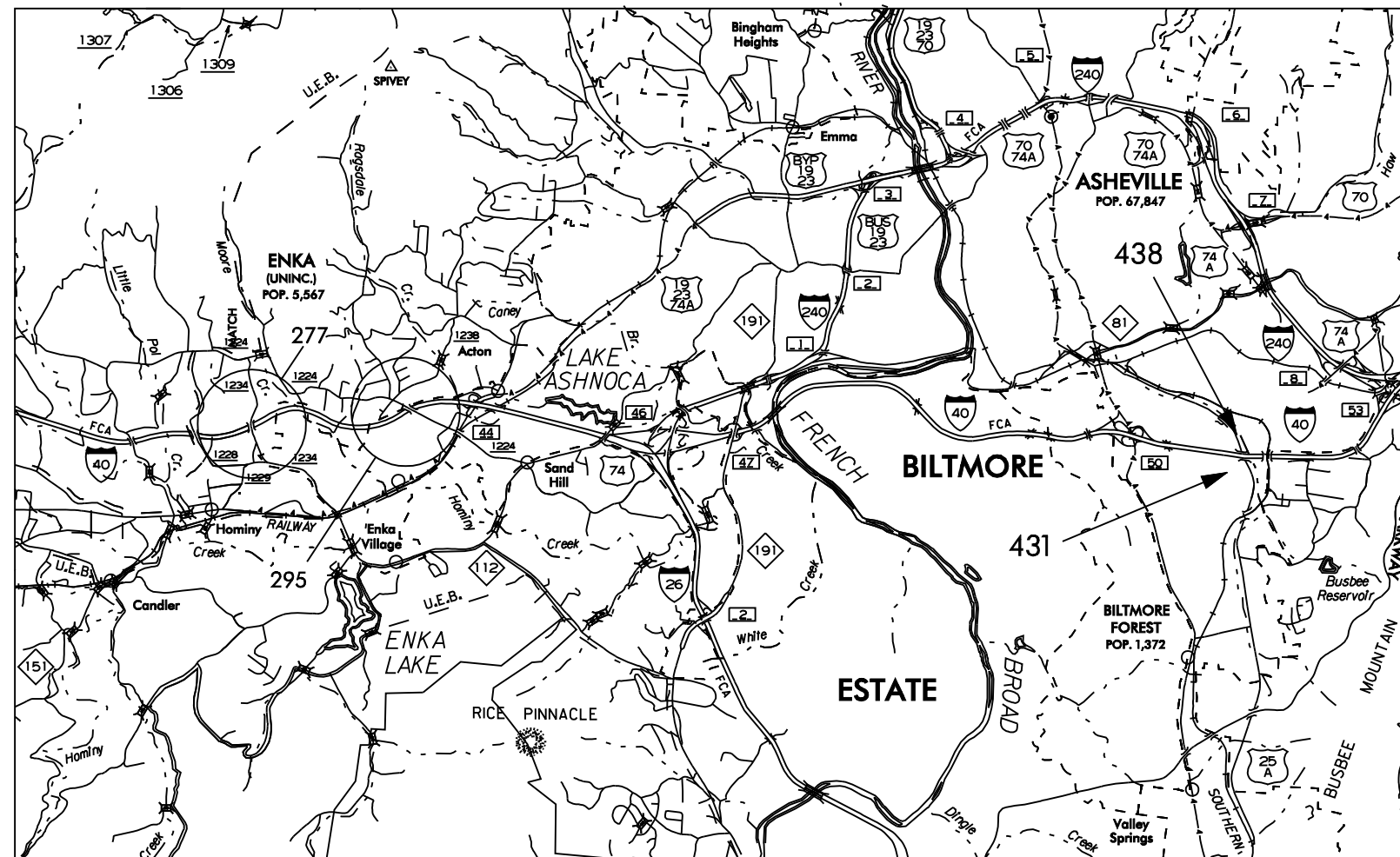


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**BUNCOMBE COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4700AP	1	1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
36727.1.1	BRNHS-000S(504)	P.E.	
36727.3.40	BRNHS-000S(370)	CONST	

**LOCATION: SR 1234, SR 1224, I 40, ACROSS I 40, US 25A**  
**TYPE OF WORK: BRIDGE PRESERVATION: CLEANING & PAINTING OF BRIDGES #277, #295, #431, & #438 IN BUNCOMBE COUNTY.**



**DESIGN DATA**

**PROJECT LENGTH**

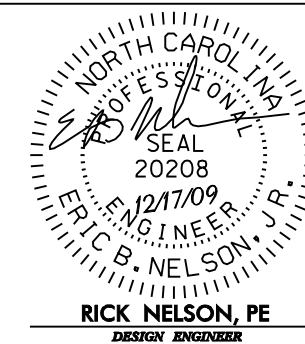
LENGTH STRUCTURE PROJECT = 9.00 MILES

Prepared In the Office of:  
**BRIDGE MANAGEMENT UNIT**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
2006 STANDARD SPECIFICATIONS

**LETTING DATE:**  
FEBRUARY 25, 2010

**DAN HOLDERMAN, PE**  
STATE BRIDGE  
MANAGEMENT ENGINEER

**MIKE SUMMERS**  
BRIDGE MANAGEMENT  
PROJECT MANAGER



**RICK NELSON, PE**  
DESIGN ENGINEER

12/22/2009 U:\TrafficControl\B-4700AP Buncombe\TCP\Plan Sheets\B-4700AP\_tcp\_psh\_01.dgn kwieskomp

**TIP PROJECT: B-4700AP**

**WBS 36727.3.40**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PLAN FOR PROPOSED  
TRAFFIC CONTROL**

**BUNCOMBE COUNTY**

LOCATION: BRIDGE NO.S 431, 438, 277, AND 295.

TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE PAINTING

STATE PROJECT REFERENCE NO. <b>B-4700AP</b>	SHEET NO. TCP-1
--	--------------------

**LEGEND**

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
  - WORK AREA

**TRAFFIC CONTROL DEVICES**

- TYPE III BARRICADE
- CONE
- DRUM     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

**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 ON I-40
TCP-5	DETAIL FOR CLOSURE OF TWO LANES ON I-40.
TCP-6	DETAIL FOR TREATMENT OF RIGHT LANE CLOSURES IN THE VICINITY OF AN ENTRANCE RAMP
TCP-7	DETAIL FOR RIGHT LANE CLOSURES ON US 25 ALT. SWEETEN CREEK RD.
TCP-8	DETAIL FOR LEFT LANE CLOSURES ON US 25 ALT. SWEETEN CREEK RD.

APPROVED: *Betsy L. Watson*  
DATE: *12/30/09*

PLAN PREPARED BY:

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Raleigh, NC 27605  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com

---

BETSY L. WATSON, PE                      **TRAFFIC CONTROL ENGINEER**

KELLIE L. WIESKAMP, EI                 **TRAFFIC CONTROL 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 UNDESIRABLE 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 AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	6:00 A.M. - 7:00 P.M. MONDAY-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 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.
- 9) FOR THE BELE CHERE FESTIVAL, BETWEEN THE HOURS OF 7:00 P.M. THE WEDNESDAY BEFORE THE FESTIVAL AND 6:00 A.M. THE WEDNESDAY AFTER THE FESTIVAL.

### 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 1101.02, SHEET 1 OF 9 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 2 MILES OF LANE CLOSURES ON I-40 OR US 25 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 I-40 OR US 25 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.


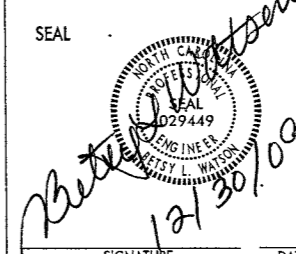

### SIGNING

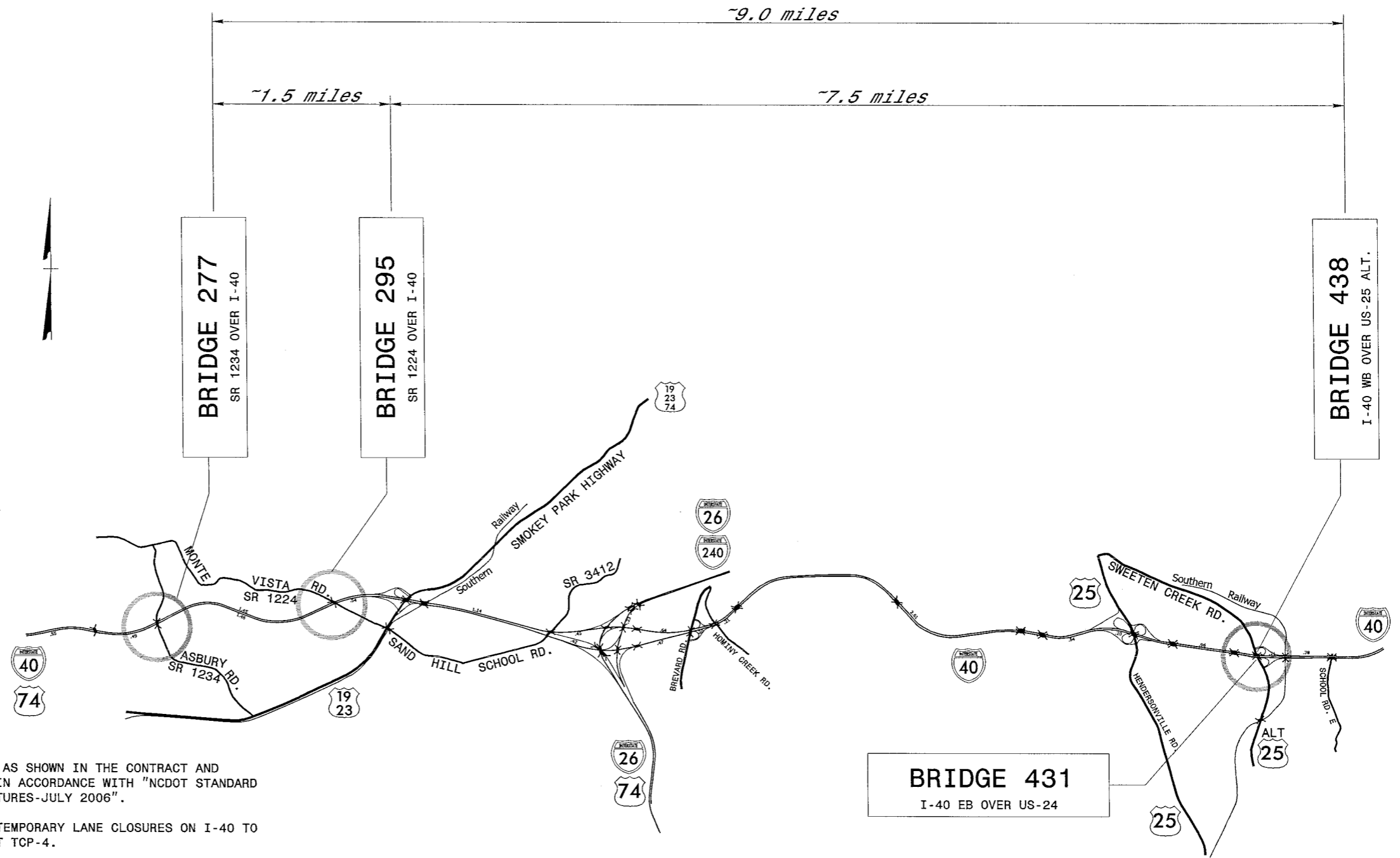
- L) ENSURE ALL SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### MISCELLANEOUS

- M) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- N) DO NOT PERFORM WORK FROM THE ROADWAY ON TOP OF THE STRUCTURE.
- O) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

Control\B-4700AP\Buncombe\TCP\Plan Sheets\B-4700AP\_tcp\_psh.02.dgn

 <b>Stantec</b> <small>Stantec Consulting Services Inc.  Suite 300, 801 Jones Franklin Road  Raleigh, NC 27606  Tel. 919.851.6886  Fax. 919.851.7024  www.stantec.com</small>	SEAL	 <i>Wesley L. Watson</i> 12/30/09	<b>PROJECT NOTES GENERAL NOTES</b>															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>NONE</td> </tr> <tr> <td>DATE:</td> <td>DEC. 2009</td> </tr> <tr> <td>DWG. BY:</td> <td>KLW</td> </tr> <tr> <td>DESIGN BY:</td> <td>BLW</td> </tr> <tr> <td>REVIEWED BY:</td> <td>BLW</td> </tr> </table>		SCALE:	NONE	DATE:	DEC. 2009	DWG. BY:	KLW	DESIGN BY:	BLW	REVIEWED BY:	BLW		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS			
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DESIGN BY:	BLW																	
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**TRAFFIC CONTROL PHASING**

**STEP 1:**

PERFORM BRIDGE PAINTING OPERATIONS AS SHOWN IN THE CONTRACT AND CONSTRUCTION PLANS. PERFORM WORK IN ACCORDANCE WITH "NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES-JULY 2006".

WHEN WORKING ON BRIDGE #277, USE TEMPORARY LANE CLOSURES ON I-40 TO PERFORM THE WORK ACCORDING TO SHEET TCP-4.

WHEN WORKING ON BRIDGE #295, USE TEMPORARY CLOSURE OF TWO LANES ON I-40 TO PERFORM THE WORK ACCORDING TO SHEET TCP-5.

WHEN RIGHT LANE CLOSURES ENCROACH THROUGH THE VICINITY OF AN ENTRANCE RAMP AT BRIDGE #295, USE SHEET TCP-6 IN CONJUNCTION WITH A RIGHT LANE CLOSURE SHEET TCP-4.

WHEN WORKING ON BRIDGES #431 AND #438, USE SHEETS TCP-7 AND TCP-8 FOR RIGHT AND LEFT LANE CLOSURES, RESPECTIVELY, ON US 25 ALT. SWEETEN CREEK RD.

AT THE END OF EACH DAY'S OPERATIONS MOVE EQUIPMENT TO STAGING AREA AT LEAST 40 FEET AWAY FROM ANY TRAVEL LANES AS APPROVED BY THE ENGINEER AND REMOVE 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 CLOSE THE SHOULDER.

**STEP 2:**

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

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SEAL

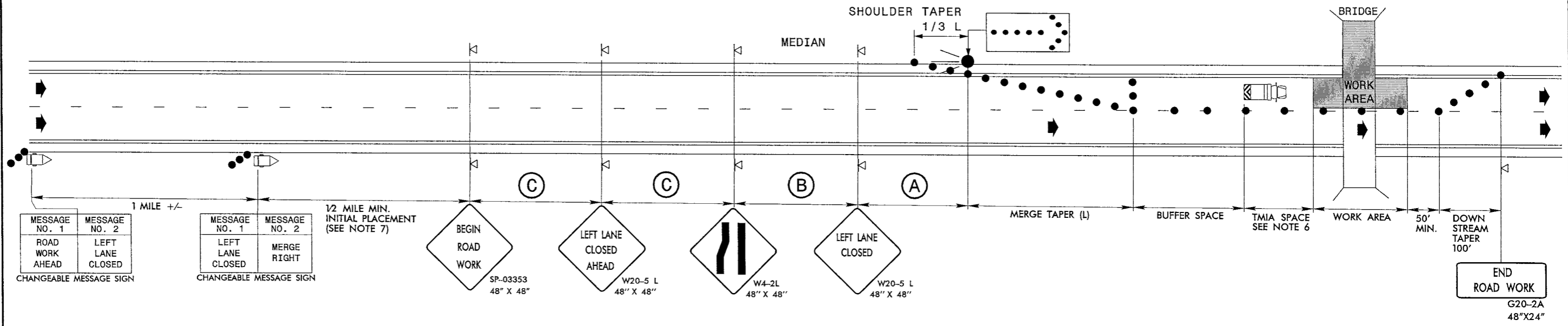
*Kelly L. Wilton*  
 12/30/09

SIGNATURE DATE

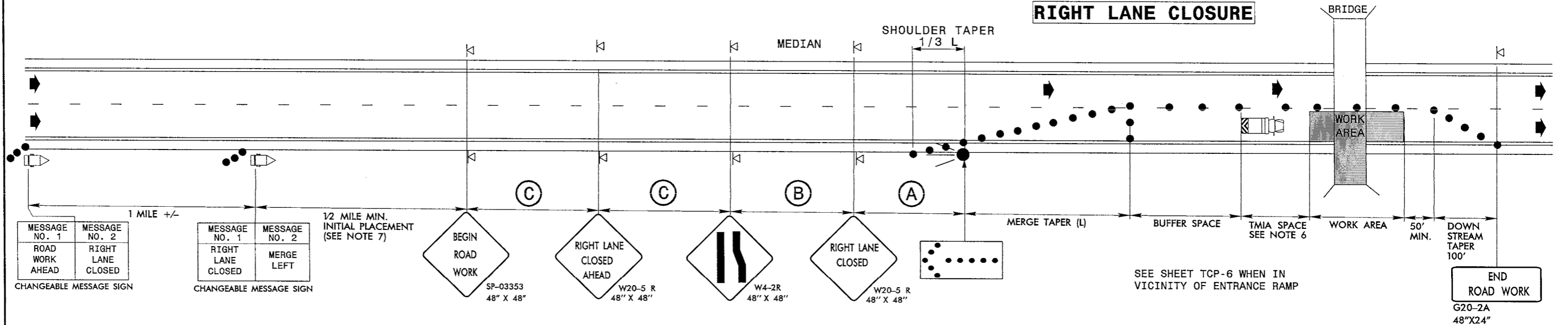
**BUNCOMBE COUNTY BRIDGE PAINTING VICINITY MAP TRAFFIC CONTROL PHASING**

SCALE: NONE		REVISIONS
DATE: DEC. 2009		
DWG. BY: KLW		
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# LEFT LANE CLOSURE



# RIGHT LANE CLOSURE

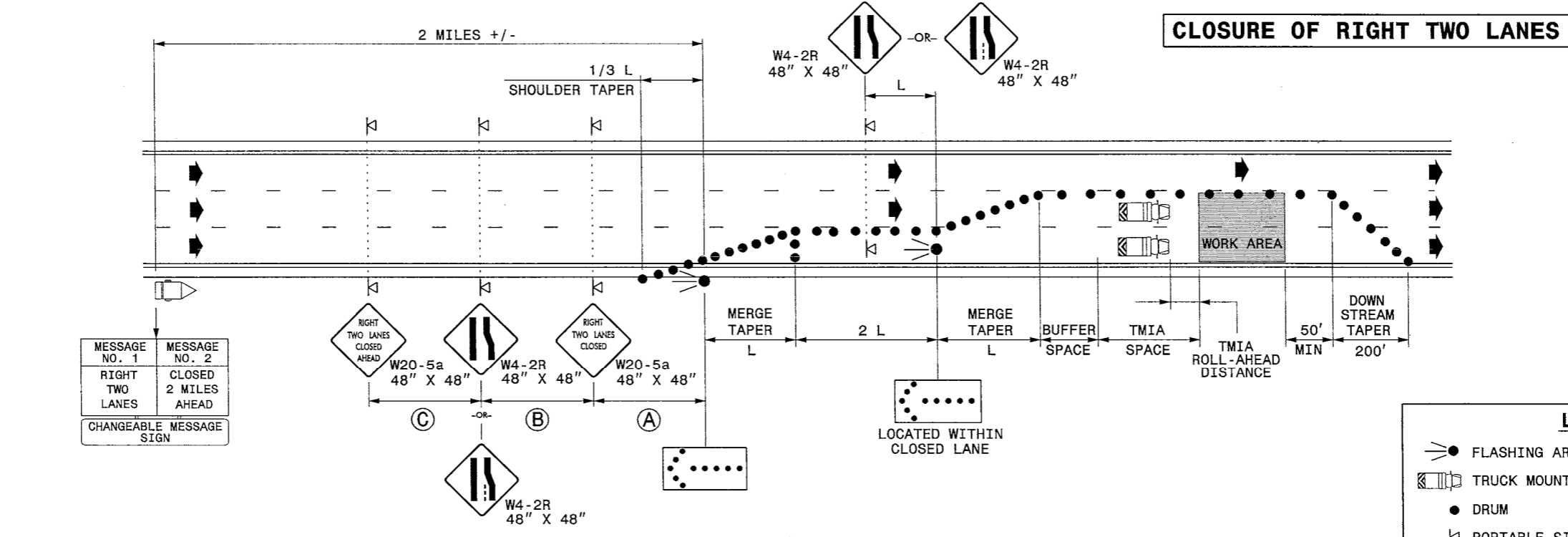
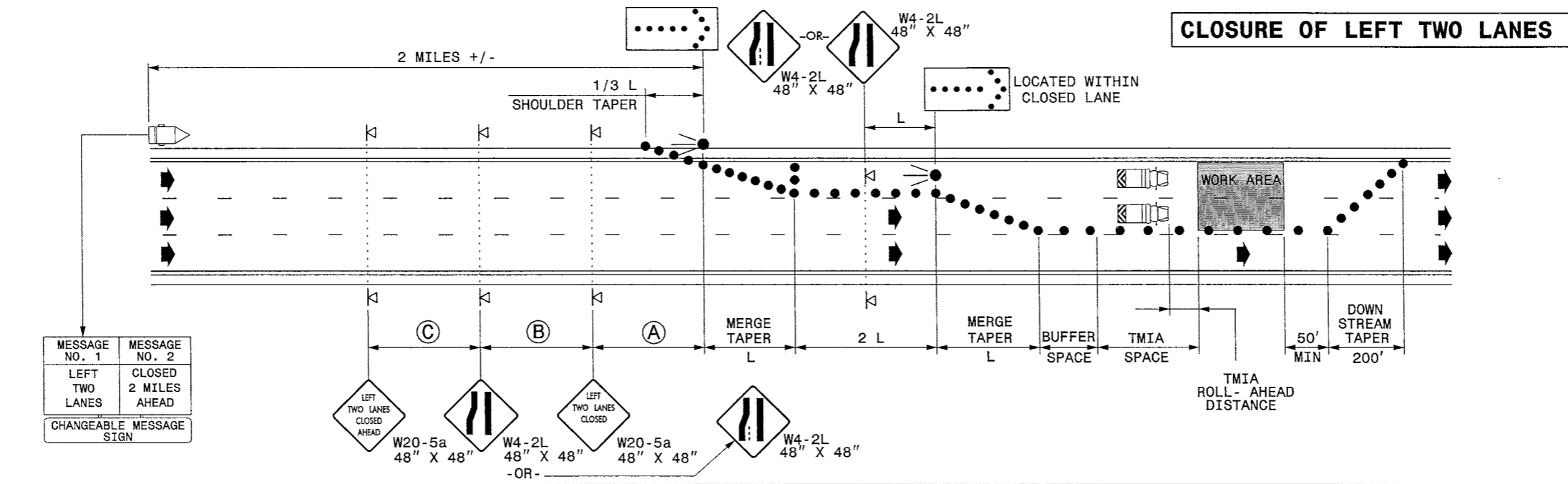


### NOTES

- USE THIS DRAWING FOR LANE CLOSURES ALONG I-40 ASSOCIATED WITH BRIDGE NO. 277.
- PLACE ARROW PANELS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW PANELS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW PANEL LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW PANEL IS MET. (SEE STD. 1101.11 SHEET 2).
- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE BUFFER SPACE AND WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- REFER TO STD. 1101.11 SHEETS 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.
- 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.
- TMIA'S ARE REQUIRED ONLY WHEN A BUFFER SPACE CANNOT BE ATTAINED, OR WHEN DIRECTED BY THE ENGINEER OR THE PLANS. WHEN USED, POSITION THE TMIA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER.
- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE FROM ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC AND MOVE CMS APPROXIMATELY 1/2 MILE IN CONJUNCTION WITH ANTICIPATED BACKUP.

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 K:\desk\mp

<p>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6868 Fax: 919.851.7024 www.stantec.com</p>	<p>SEAL</p> <p><i>Kelly L. Watson</i> 12/30/09</p>	<h2>TEMPORARY LANE CLOSURES ON I-40</h2>	<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS									
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#### GENERAL NOTES

- USE THIS DRAWING FOR LANE CLOSURES ALONG I-40 ASSOCIATED WITH BRIDGE NO. 295.
- REFER TO NOTES ON SHEET TCP-4.
- REFER TO SHEET TCP-6 FOR TREATMENT OF LANE CLOSURES THROUGH INTERCHANGES.

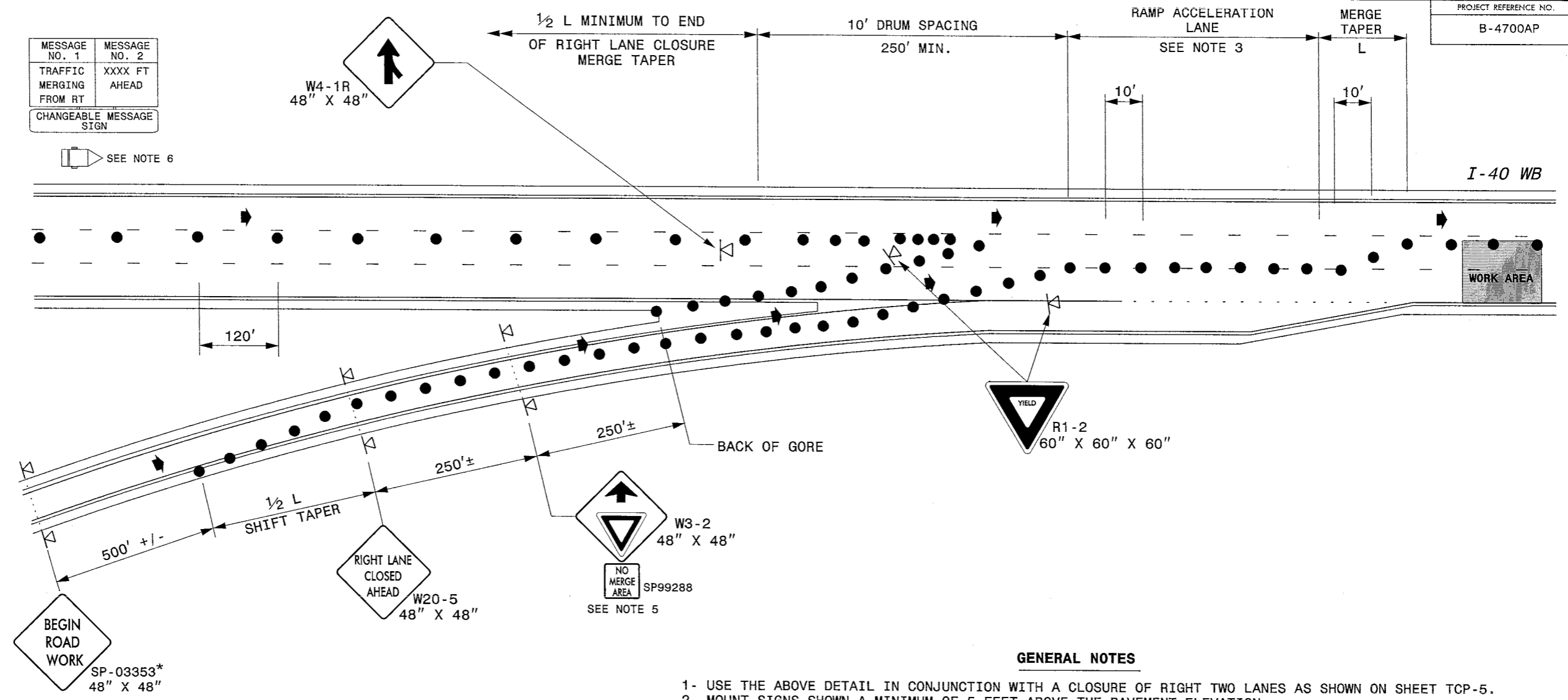
LEGEND	
	FLASHING ARROW PANEL (TYPE C)
	TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
	DRUM
	PORTABLE SIGN
	CHANGEABLE MESSAGE SIGN (CMS)
	DIRECTION OF TRAFFIC FLOW

control\B-4700AP\109\incombe\TCP\Plan Sheets\B-4700AP\_tcp\_psh\_05.dgn

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MESSAGE NO. 1 TRAFFIC MERGING FROM RT	MESSAGE NO. 2 XXXX FT AHEAD
CHANGEABLE MESSAGE SIGN	

SEE NOTE 6



**GENERAL NOTES**

- 1- USE THE ABOVE DETAIL IN CONJUNCTION WITH A CLOSURE OF RIGHT TWO LANES AS SHOWN ON SHEET TCP-5.
- 2- MOUNT SIGNS SHOWN A MINIMUM OF 5 FEET ABOVE THE PAVEMENT ELEVATION.
- 3- IF EXISTING ACCELERATION DISTANCE OR A MINIMUM OF 400' ACCELERATION DISTANCE CANNOT BE PROVIDED, CONTACT THE WORK ZONE TRAFFIC CONTROL UNIT FOR FURTHER GUIDANCE.
- 4- CLOSE THE RIGHT TWO LANES SUFFICIENTLY IN ADVANCE TO STABILIZE MOTOR VEHICLE TRAFFIC FLOW BEFORE THE MERGE AS SHOWN ON SHEET TCP-5.
- 5- INSTALL SP99288 BELOW THE YIELD AHEAD SIGN (AS SHOWN) TO ALERT MOTORISTS THAT THE ACCELERATION DISTANCE HAS BEEN REDUCED.
- 6- COORDINATE WITH THE ENGINEER FOR LOCATION OF CMS.
- 7- USE THE ABOVE DETAIL ALONG I-40 WB IN THE EVENT THAT THE ENTRANCE RAMP FROM US 19/23/74 SMOKEY PARK HIGHWAY ENCROACHES THROUGH THE VICINITY OF RIGHT LANE CLOSURES AT BRIDGE #295.

**LEGEND**

- CHANGEABLE MESSAGE SIGN (CMS)
- DRUM
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

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SEAL  
  
 SIGNATURE DATE

**TYPICAL RIGHT LANE CLOSURE THROUGH VICINITY OF ENTRANCE RAMP**

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DATE: DEC. 2009		
DESIGN BY: K LW		
REVIEWED BY: BLW		

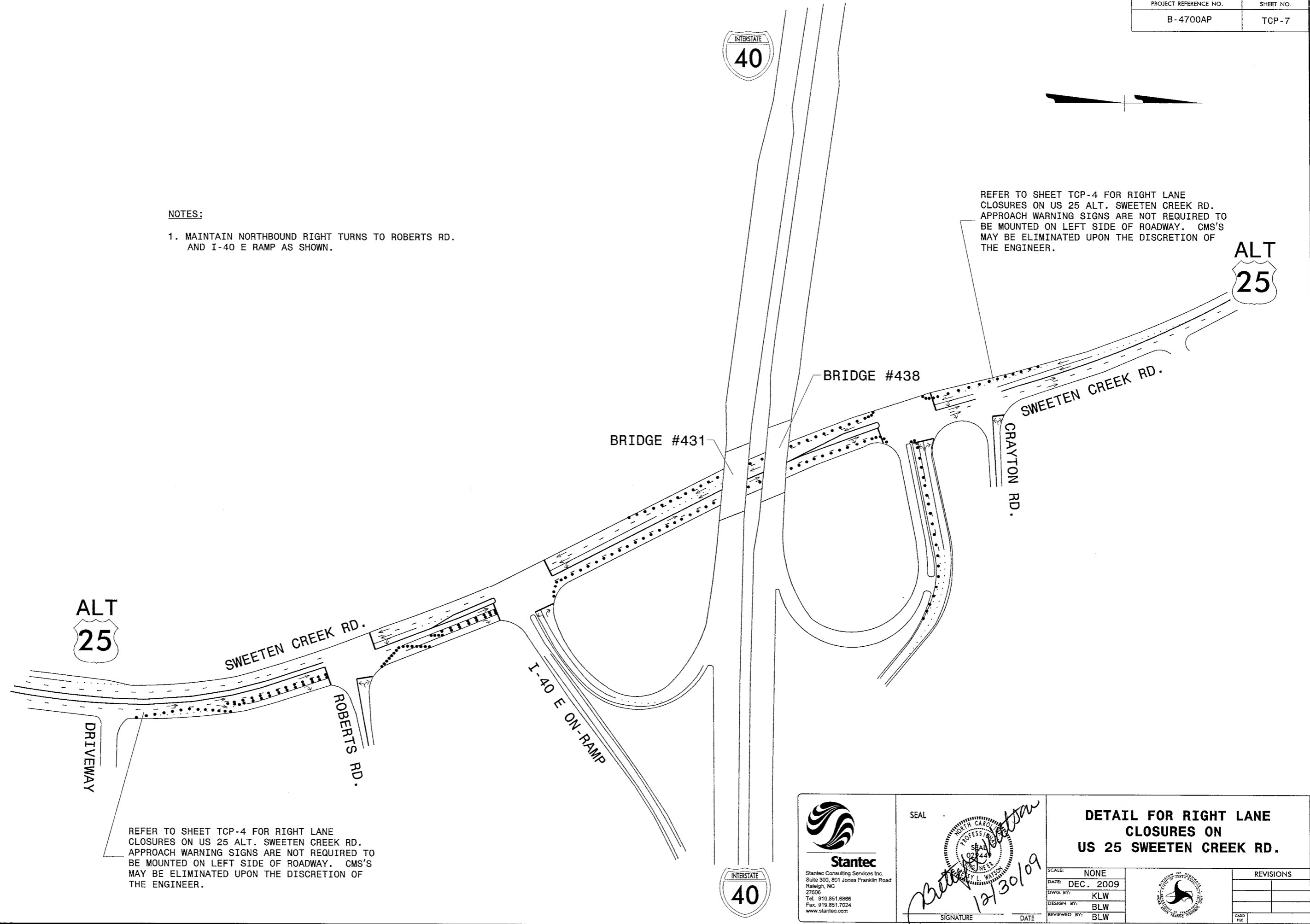
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 K LW



**NOTES:**

1. MAINTAIN NORTHBOUND RIGHT TURNS TO ROBERTS RD. AND I-40 E RAMP AS SHOWN.

REFER TO SHEET TCP-4 FOR RIGHT LANE CLOSURES ON US 25 ALT. SWEETEN CREEK RD. APPROACH WARNING SIGNS ARE NOT REQUIRED TO BE MOUNTED ON LEFT SIDE OF ROADWAY. CMS'S MAY BE ELIMINATED UPON THE DISCRETION OF THE ENGINEER.



REFER TO SHEET TCP-4 FOR RIGHT LANE CLOSURES ON US 25 ALT. SWEETEN CREEK RD. APPROACH WARNING SIGNS ARE NOT REQUIRED TO BE MOUNTED ON LEFT SIDE OF ROADWAY. CMS'S MAY BE ELIMINATED UPON THE DISCRETION OF THE ENGINEER.

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SIGNATURE: *Betty L. Watson*  
 DATE: 12/30/09

**DETAIL FOR RIGHT LANE CLOSURES ON US 25 SWEETEN CREEK RD.**

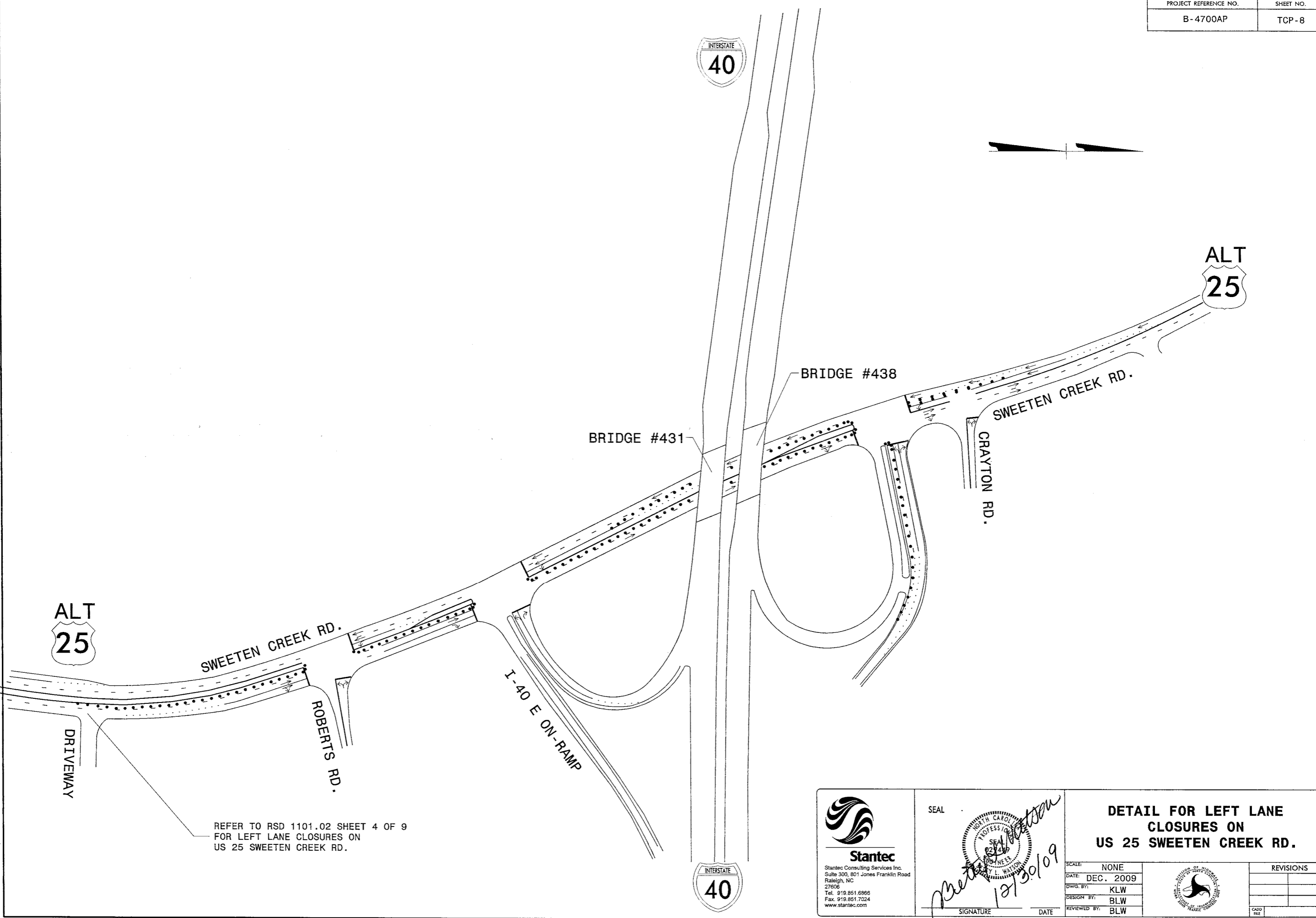
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DATE:	DEC. 2009
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REVIEWED BY:	BLW



REVISIONS	

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REFER TO RSD 1101.02 SHEET 4 OF 9  
FOR LEFT LANE CLOSURES ON  
US 25 SWEETEN CREEK RD.

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 FreshCamp

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 Fax. 919.851.7024  
 www.stantec.com

SEAL

Peter L. Watson  
 12/30/09  
 SIGNATURE DATE

**DETAIL FOR LEFT LANE CLOSURES ON US 25 SWEETEN CREEK RD.**

SCALE:	NONE
DATE:	DEC. 2009
DWG. BY:	KLW
DESIGN BY:	BLW
REVIEWED BY:	BLW



REVISIONS	