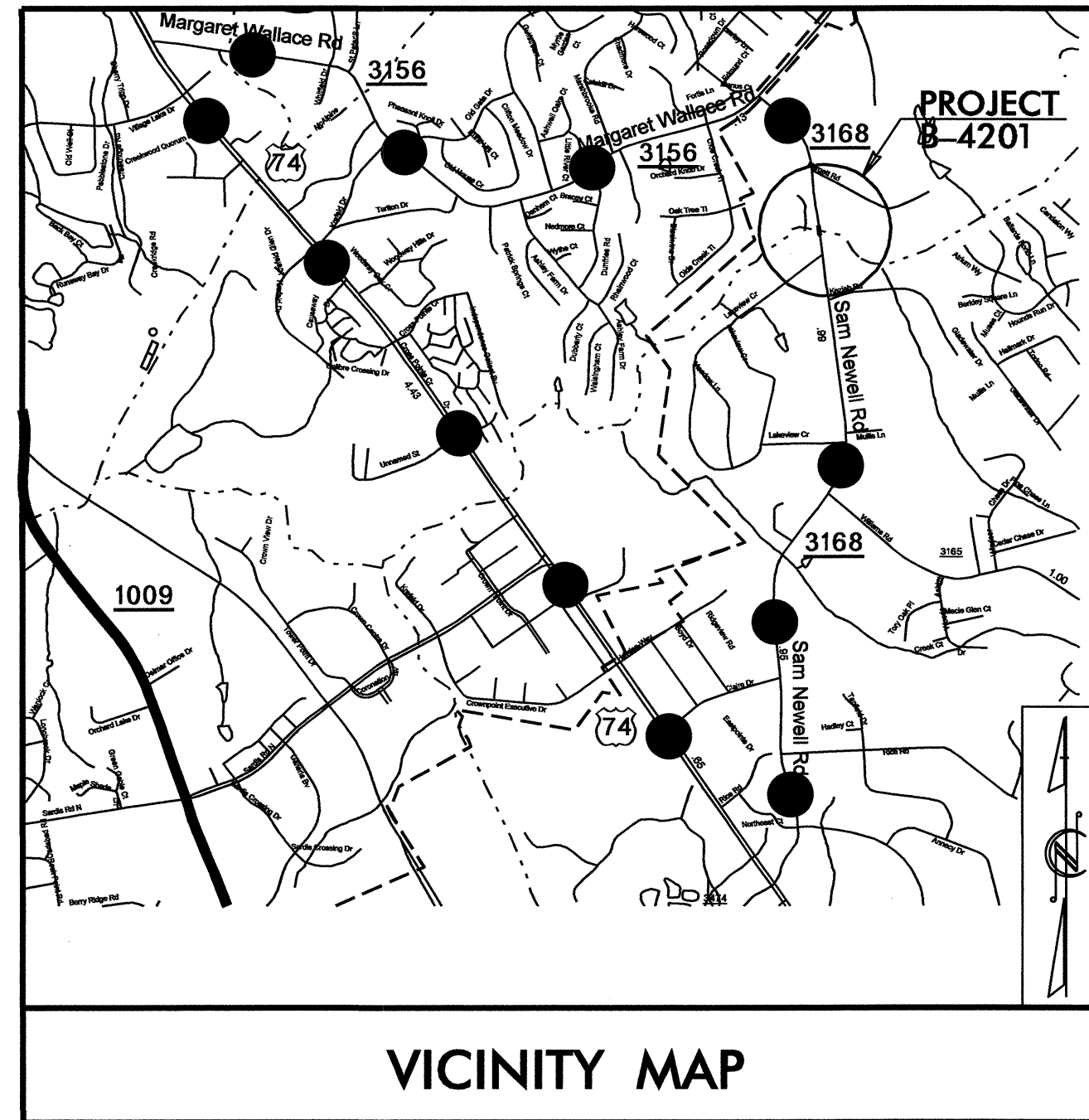
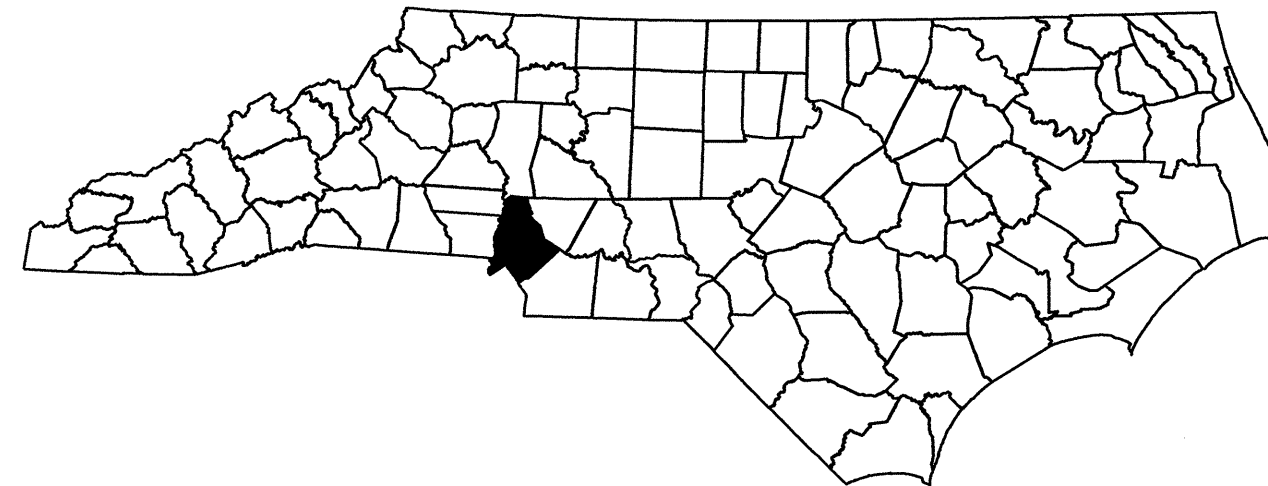


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

MECKLENBURG COUNTY



VICINITY MAP
OFF-SITE DETOUR ROUTE ●●●●

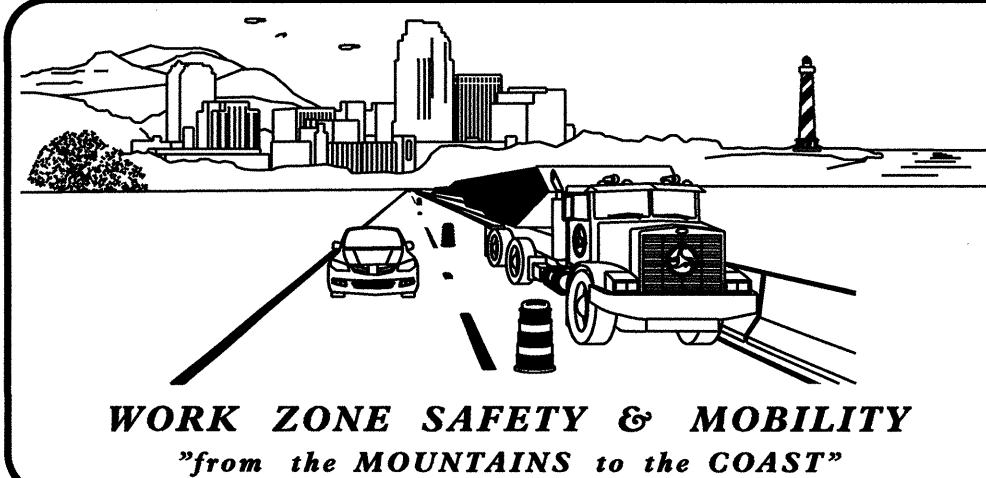
**LOCATION: BRIDGE No. 38 OVER IRVINS CREEK ON SR 3168
(SAM NEWELL RD.)**

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B	TRANSPORTATION OPERATIONS AND PROJECT NOTES: GENERAL NOTES AND LOCAL NOTES
TMP-2A	N/A
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	TEMPORARY TRAFFIC CONTROL DETAIL
TMP-5	TEMPORARY DETOUR SIDEWALK CLOSED

SHEET NO.
TMP-1
TIP PROJECT: B-4201

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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580
1020 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 (DELIVERY)
PHONE: (919) 250-4094 FAX: (919) 250-4098

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
G. L. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER
J. W. GILSTRAP TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. GREEN TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: _____
DATE: _____

SEAL

TIP PROJECT:

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- FLAGGER

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN

TEMPORARY PAVEMENT MARKING

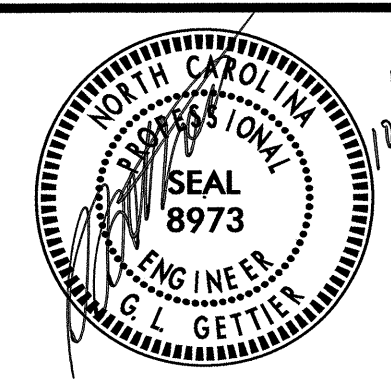

- ### 4" PAINT
- PA WHITE EDGELINE
 - PC WHITE SKIP
 - PD WHITE MINI SKIP
 - PI YELLOW DOUBLE CENTER
 - PH YELLOW SINGLE CENTER
 - PF YELLOW SKIP

- ### 24" PAINT
- P4 WHITE STOP BAR

- ### SYMBOLS
- QA LEFT ARROW
 - QB RIGHT ARROW

- ### TEMPORARY MARKERS
- MH YELLOW & YELLOW

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APPROVED: _____	DATE: _____			ROADWAY STANDARD DRAWINGS, LEGEND & TEMPORARY PAVEMENT MARKING
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MANAGEMENT STRATEGIES

CONSTRUCTION

REMOVE AND REPLACE EXISTING STRUCTURE AND APPROACH ROADWAYS ALONG THE EXISTING ROADWAY ALIGNMENT AS SHOWN IN THE CONSTRUCTION PLANS.

TMP DESIGN PARAMETERS

LANE CLOSURES WILL BE UTILIZED ON SR 3168 (SAM NEWELL RD.) TO CONSTRUCT AS MUCH AS POSSIBLE, PROPOSED WIDENING (INCLUDING CURB & GUTTER, SIDEWALK AND DRAINAGE).

A ROAD CLOSURE WILL BE UTILIZED FOR SR 3168 (SAM NEWELL RD.) WITH A 120 DAY ICT TO CONSTRUCT PROPOSED STURCTURE AND APPROACH ROADWAY.

THE OFFSITE DETOUR WILL INCLUDE US-74 AND SR 3156 (MARGARET WALLACE RD.). (SEE SHEET TMP-4).

TRAFFIC WILL NEED TO BE MAINTAINED TO ALL EXISTING DRIVEWAYS LOCATED WITHIN THE PROJECT LIMITS AS WELL AS LAKEVIEW CIRCLE. (SEE SHEET TMP-4).

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.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
1. SAM NEWELL RD.	MONDAY-FRIDAY 7:30AM-9:00AM 2:30PM-4:00PM

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

ROAD NAME
1. SAM NEWELL RD.

GENERAL NOTES / LOCAL NOTES

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATE UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR EASTER, BETWEEN THE HOURS OF 7:30AM THURSDAY AND 4:00PM MONDAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:30AM FRIDAY AND 4:00PM TUESDAY.

- C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
1. SAM NEWELL RD.	MONDAY-FRIDAY 7:30AM-9:00AM 2:30PM-4:00PM	15 MINS./ TRAFFIC OPERATIONS

- D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) 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.

- F) 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.

- G) 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 NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- H) 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.

- I) 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.

- J) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

- K) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

PAVEMENT EDGE DROP OFF REQUIREMENTS

- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

- L) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

- M) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

TRAFFIC PATTERN ALTERATIONS

- N) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

SIGNING

- O) STATE FORCES WILL BE RESPONSIBLE FOR PROVIDING PERMANENT SIGNING.

- P) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

- STATE FORCES WILL BE RESPONSIBLE FOR PROVIDING SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- Q) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

- STATE FORCES WILL COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

TRAFFIC CONTROL DEVICES

- S) 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 OR AS SHOWN IN THE PLANS.

- T) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- U) STATE FORCES WILL BE RESPONSIBLE FOR INSTALLING PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE.

- V) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
SAME NEWELL RD.	PAINT	RAISED

- W) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

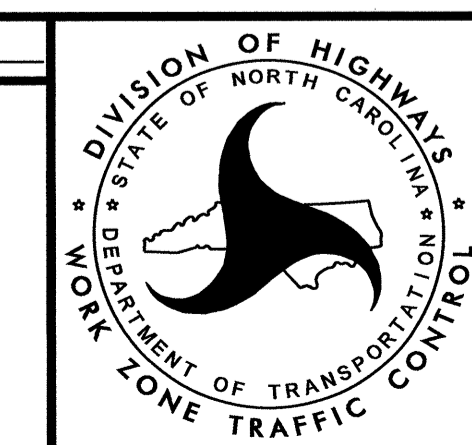
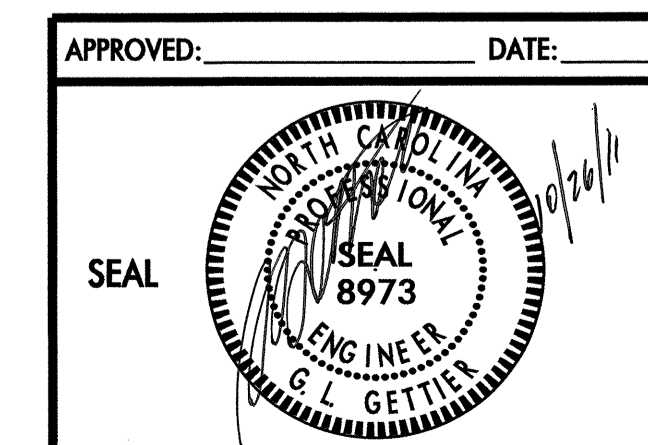
- X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- Y) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- Z) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

- AA) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIME AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).



TRANSPORTATION OPERATIONS & PROJECT NOTES

PHASE I

NOTE: RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE STATED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANES.

STEP 1: - CONTRACTOR SHALL INSTALL ALL ADVANCE WORK ZONE WARNING SIGNS. (SEE ROADWAY STANDARD DRAWING NO. 1101.01 SHEET 3 OF 3).

STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15:

- CONSTRUCT, AS MUCH AS POSSIBLE, PROPOSED WIDENING (INCLUDING CURB & GUTTER, SIDEWALK AND DRAINAGE) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM STATION 17+00 +/- -L- TO STATION 26+50 +/- -L-. (SEE CONSTRUCTION PLANS.).

CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING WORK IN PHASE I STEPS 2 THRU 4. (SEE INTERMEDIATE CONTRACT TIME AND SPECIAL PROVISIONS.)

STEP 2: - USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9, CLOSE SR 3168 (SAM NEWELL RD., -L-) FROM STATION 20+00 +/- -L- TO STATION 25+00 +/- -L-. (SEE SHEET TMP-4).

NOTE: INSTALL ADDITIONAL TYPE III BARRICADES AT STATION 23+75 +/- -L- AND UTILIZE DRUMS TO MAINTAIN ACCESS TO DRIVEWAY DURING CONSTRUCTION.

NOTE: STATE FORCES WILL INSTALL OFF-SITE DETOUR ROUTE SIGNS & ASSEMBLIES FOR THE CLOSING OF SR 3168 (SAM NEWELL RD., -L-).

NOTE: COVER ALL ADVANCE WORK ZONE WARNING SIGNS WHEN CLOSING SR 3168 (SAM NEWELL RD.) TO THRU TRAFFIC.

STEP 3: - REMOVE THE EXISTING STRUCTURE AND CONSTRUCT THE PROPOSED STRUCTURE AND ROADWAY UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE CONSTRUCTION PLANS.).

- CONTRACTOR MAY CONSTRUCT ALL OTHER PROPOSED WORK AS DIRECTED BY THE ENGINEER. (SEE CONSTRUCTION PLANS.).

- PLACE TEMPORARY PAVEMENT MARKINGS AND TEMPORARY RAISED MARKERS FOR EITHER THE FINAL TRAFFIC PATTERN OR THE EXISTING TRAFFIC PATTERN AS DIRECTED BY THE ENGINEER.

STEP 4: - OPEN SR 3168 (SAM NEWELL RD., -L-) TO THE FINAL TRAFFIC PATTERN OR EXISTING TRAFFIC PATTERN AS DIRECTED BY THE ENGINEER.

NOTE: IF PROPOSED SIDEWALKS ARE CONSTRUCTED, INSTALL TYPE III BARRICADES AND SIGNS AS SHOWN ON TMP-5.

NOTE: STATE FORCES WILL REMOVE ALL OFF-SITE SIGNING AND DETOUR ROUTE SIGNING.

NOTE: CONTRACTOR SHALL UNCOVER ALL ADVANCE WORK ZONE WARNING SIGNS.

STEP 5: - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15:

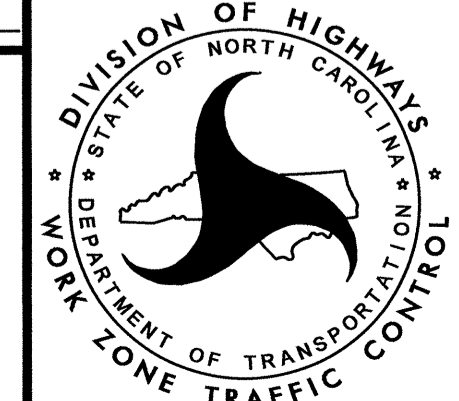

- CONSTRUCT THE REMAINDER OF THE PROJECT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON SR 3168 (SAM NEWELL RD., -L-) FROM STATION 17+00 +/- -L- TO STATION 26+50 +/- -L- AND SIDEWALKS. (SEE CONSTRUCTION PLANS).

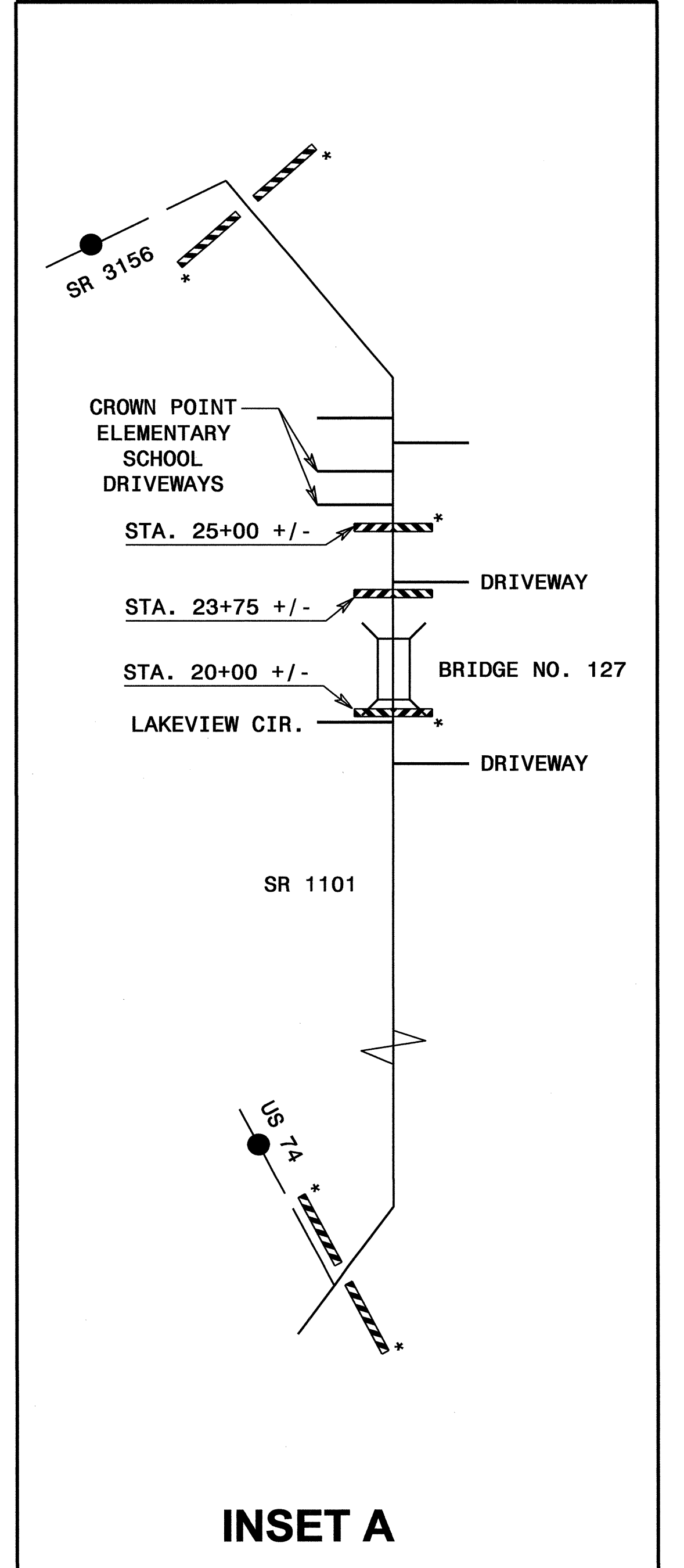
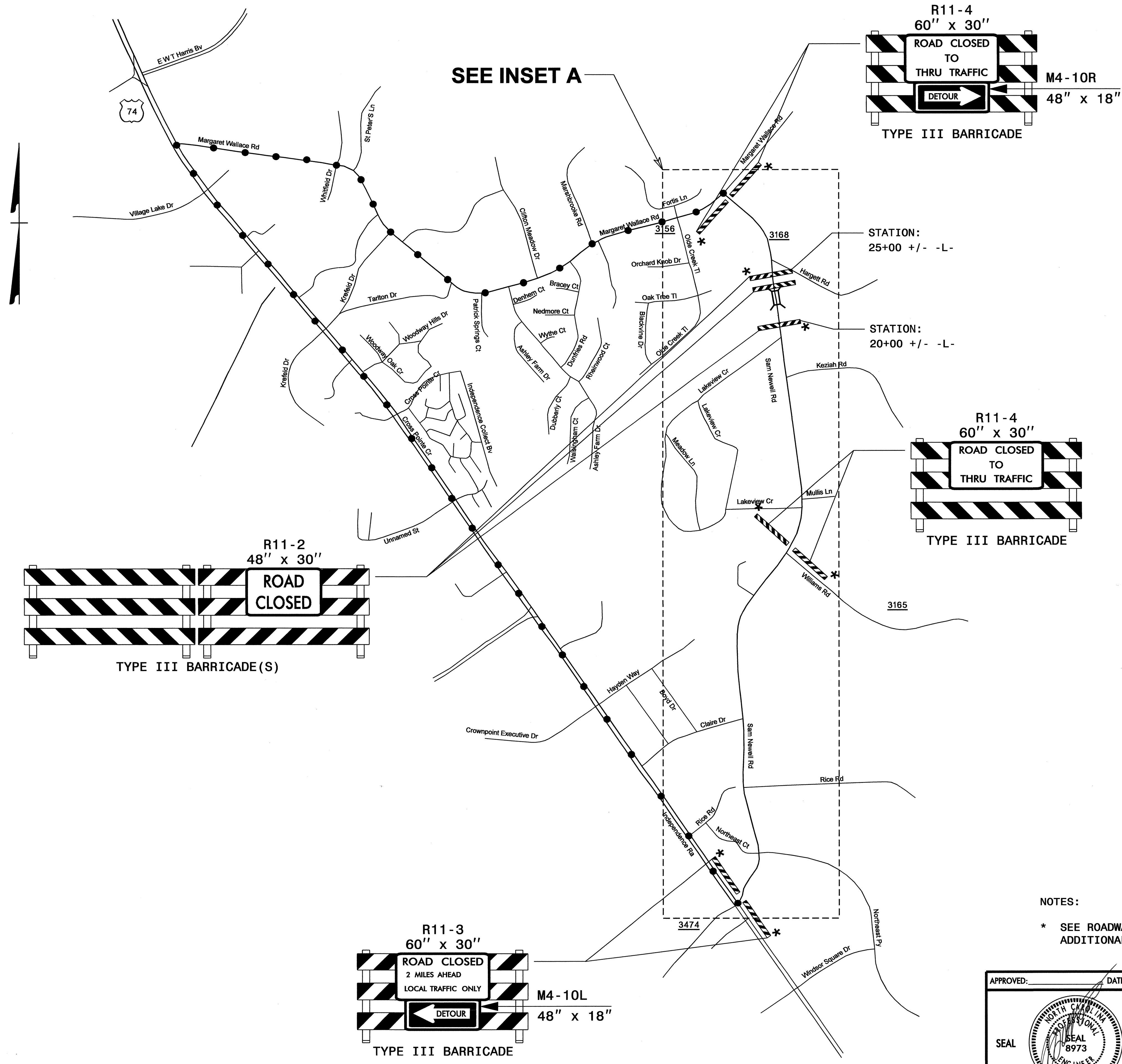
NOTE: STATE FORCES WILL PLACE FINAL PAVEMENT MARKINGS AND MARKERS ON SR 3168 (SAM NEWELL RD., -L-).

STEP 6: - REMOVE ALL TRAFFIC CONTROL DEVICES.

- OPEN TO FINAL TRAFFIC PATTERN.

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NOTES:

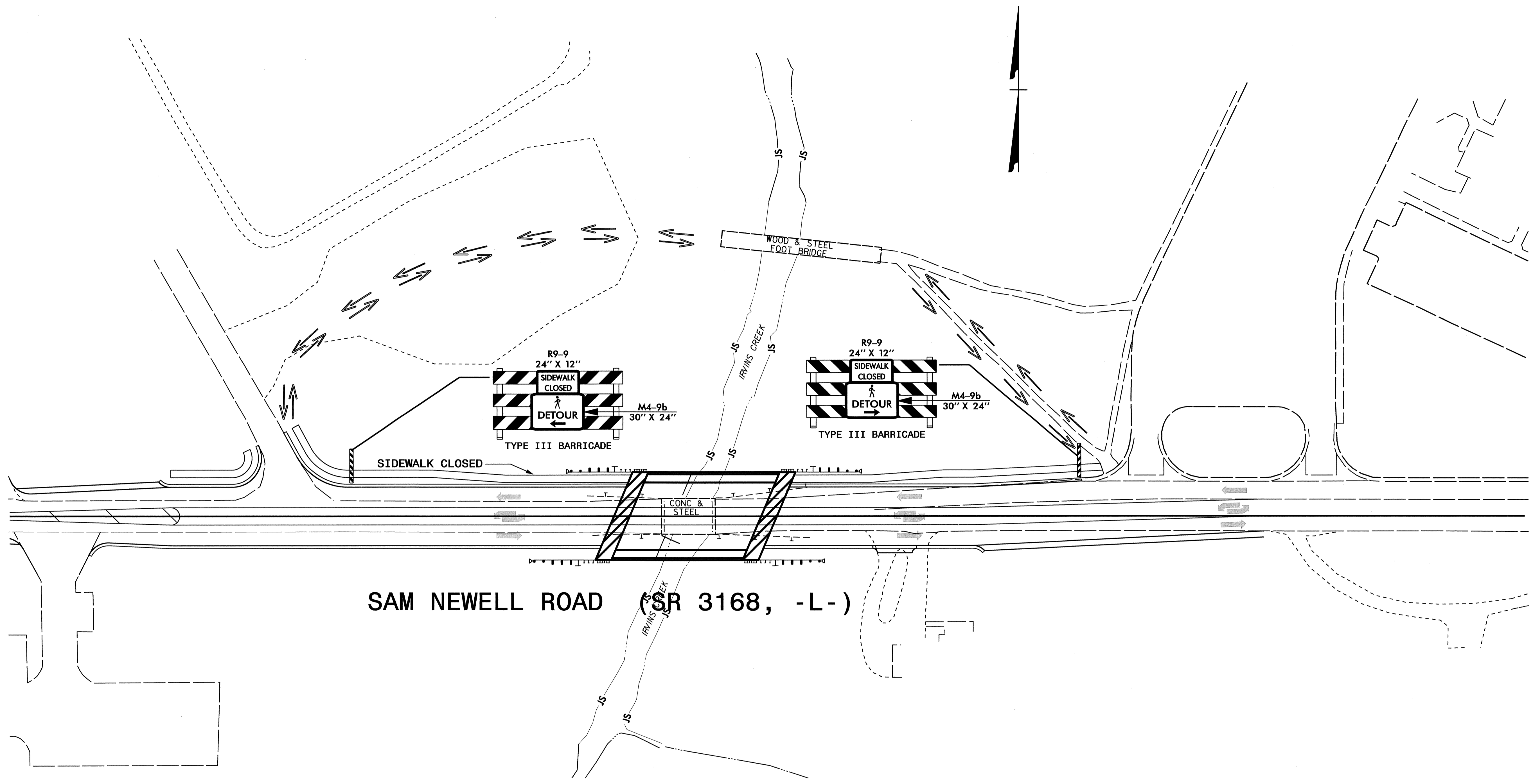
* SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9, FOR ADDITIONAL WORK ZONE SIGNS AND LOCATIONS.

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SEAL







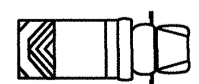
TEMPORARY TRAFFIC CONTROL DETAIL

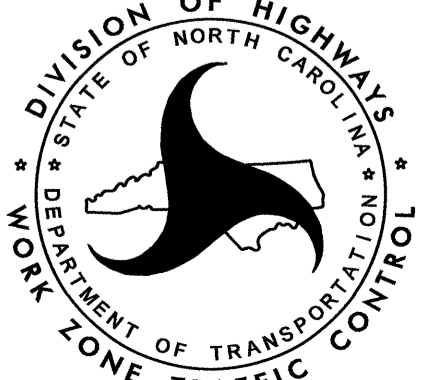
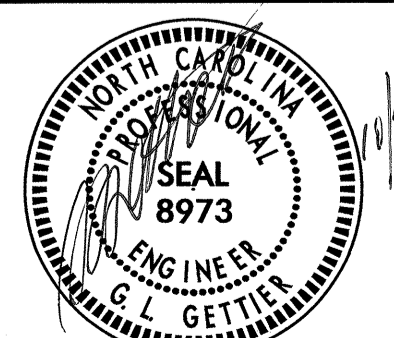
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SAM NEWELL ROAD (SR 3168, -L-)

LEGEND

-  TYPE III BARRICADE
-  DRUM
-  FLASHING ARROW PANEL (TYPE C)
-  STATIONARY SIGN
-  PORTABLE SIGN
-  CHANGEABLE MESSAGE SIGN (CMS)
-  TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

APPROVED: _____ DATE: _____		<p>TEMPORARY DETOUR SIDEWALK CLOSED</p>
		

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