B-4820

STATE PROJECT REFERENCE NO.

82

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

SURRY COUNTY

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 |
| 1101.03 | TEMPORARY ROAD 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 | DRUMS |
| 1135.01 | CONES |
| 1145.01 | BARRICADES |
| 1150.01 | FLAGGING DEVICES |
| 1180.01 | SKINNY-DRUM |
| | |

INDEX OF SHEETS

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LEGEND

GENERAL



REMOVAL OF EXISTING BRIDGE STRUCTURE

TRAFFIC CONTROL DEVICES

TYPE III BARRICADE

- STATIONARY SIGN

APPROVED: DATE:

PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT

J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER

G. L. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER

J. W. WOOLARD, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER

D. A. HAYES, E.I. TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

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 AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) 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.
- C) 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.
- D) DO NOT INSTALL MORE THAN 450 FT OF LANE CLOSURE ON NC 268 BUS (MARKET ST) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- E) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON NC 268 BUS (MARKET ST).

PAVEMENT EDGE DROP OFF REQUIREMENTS

F) 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:

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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- H) 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.
- PROVIDE PERMANENT SIGNING.
- J) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS AND PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- K) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION AND COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
-) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- 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 ANDSTRUCTURES OR AS SHOWN IN THE PLANS.
- N) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

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

PROJ. REFERENCE NO. SHEET NO.

B-4820
TCP-2

<u>PHASING</u>

- STEP 1) INSTALL ALL ADVANCE WARNING SIGNING ON NC 268 (MARKET ST) AND GWNN AVE. IF WORK DOES NOT BEGIN WITHIN THREE (3) DAYS OF SIGN INSTALLATION, COVER OR REMOVE ADVANCE WARNING SIGNING (SEE SHEET TCP-6).
- STEP 2) INSTALL TYPE III BARRICADES WITH "ROAD CLOSED" SIGN R11-2
 ATTACHED AT THE END OF COMMERCE ST AND MONROE ST. BEHIND
 BARRICADES, INSTALL THE TEMPORARY ABC AS SHOWN ON TCP-3 AND
 AS DIRECTED BY THE ENGINEER.

INSTALL AND COVER BOAT RAMP LAUNCH OFFSITE DETOUR SIGNING AS SHOWN ON SHEET TCP-3 NO MORE THAN THREE (3) DAYS PRIOR TO CONSTRUCTION.

INSTALL AND COVER BOAT TRAFFIC DETOUR SIGNING AS SHOWN ON SHEET TCP-3 NO MORE THAN THREE (3) DAYS PRIOR TO CONSTRUCTION.

STEP 3) REMOVE TYPE III BARRICADES INSTALLED IN STEP 2, UNCOVER DETOUR SIGNING AND BOAT TRAFFIC DETOUR SIGNING INSTALLED IN STEP 2, AND USING SHEET TCP-3 DETOUR BOAT RAMP LAUNCH TRAFFIC, BOAT TRAFFIC, CLOSE MONROE ST UNDER THE GWNN AVE BRIDGE, AND REMOVE GWNN AVE BRIDGE FROM END PROJECT LIMITS PAST MONROE ST.

INSTALL GUARDRAIL BARRIER AT END PROJECT LIMITS (SEE ROADWAY PLANS).

STEP 4) REMOVE DETOUR SIGNING, BOAT TRAFFIC SIGNING, AND BARRICADES SHOWN ON TCP-3 AND RE-OPEN MONROE ST.

AWAY FROM TRAFFIC, CONTINUE GWNN AVE BRIDGE REMOVAL UP TO BUT NOT ACROSS STANDARD ST.

INSTALL AND COVER STANDARD ST OFFSITE DETOUR SIGNING AS SHOWN ON SHEET TCP-4 NO MORE THAN THREE (3) DAYS PRIOR TO CONSTRUCTION.

NOTE: STEPS 5 THRU 9 MAY BE DONE CONCURRENTLY.

- STEP 5) UNCOVER DETOUR SIGNING INSTALLED IN STEP 4, AND USING SHEET TCP-4 DETOUR STANDARD ST TRAFFIC, CLOSE STANDARD ST UNDER THE GWNN AVE BRIDGE, AND REMOVE GWNN AVE BRIDGE ACROSS STANDARD ST.
- STEP 6) REMOVE DETOUR SIGNING AND BARRICADES SHOWN ON TCP-4 AND RE-OPEN STANDARD ST.

AWAY FROM TRAFFIC, CONTINUE GWNN AVE BRIDGE REMOVAL UP TO BUT NOT ACROSS MAIN ST.

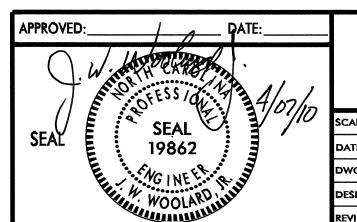
INSTALL AND COVER MAIN ST OFFSITE DETOUR SIGNING AS SHOWN ON SHEET TCP-5 NO MORE THAN THREE (3) DAYS PRIOR TO CONSTRUCTION.

RE-INSTALL TYPE III BARRICADES ORIGINALLY INSTALLED IN STEP 2 AT SAME LOCATIONS AND REMOVE THE TEMPORARY ABC PLACED IN STEP 2. REMOVE BARRICADES UPON COMPLETION OF STEP 6.

- STEP 7) UNCOVER DETOUR SIGNING INSTALLED IN STEP 6, AND USING SHEET TCP-5 DETOUR MAIN ST TRAFFIC, CLOSE MAIN ST UNDER THE GWNN AVE BRIDGE, AND REMOVE GWNN AVE BRIDGE ACROSS MAIN ST.
- STEP 8) REMOVE DETOUR SIGNING AND BARRICADES SHOWN ON TCP-5 AND RE-OPEN MAIN ST.

AWAY FROM TRAFFIC, CONTINUE GWNN AVE BRIDGE REMOVAL UP TO NC 268 BUS (MARKET ST).

- STEP 9) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9 AS NEEDED, CONSTRUCT SIDEWALK, CURB AND GUTTER, LANDSCAPING, ETC. AT THE BEGIN PROJECT LIMITS ON MARKET ST (SEE ROADWAY PLANS). RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORK DAY.
- STEP 10) REMOVE ALL SIGNING AND TRAFFIC CONTROL DEVICES AND RETURN MARKET ST TO THE EXISTING TRAFFIC PATTERN.



GENERAL NOTES AND PHASING

SCALE: NONE

DATE: 01/09

DWG. BY: DAH

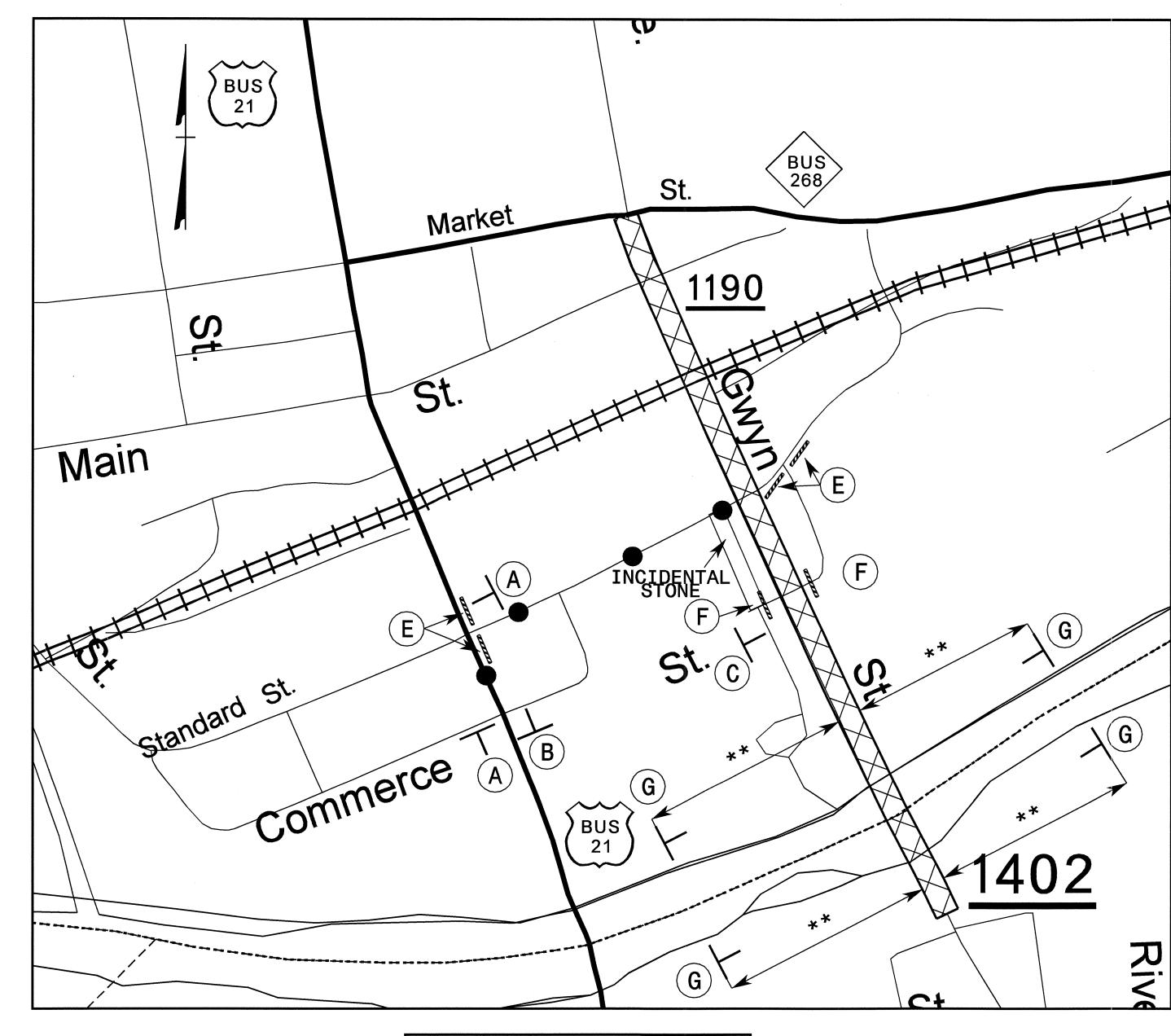
DESIGN BY: DAH

REVIEWED BY: JWW

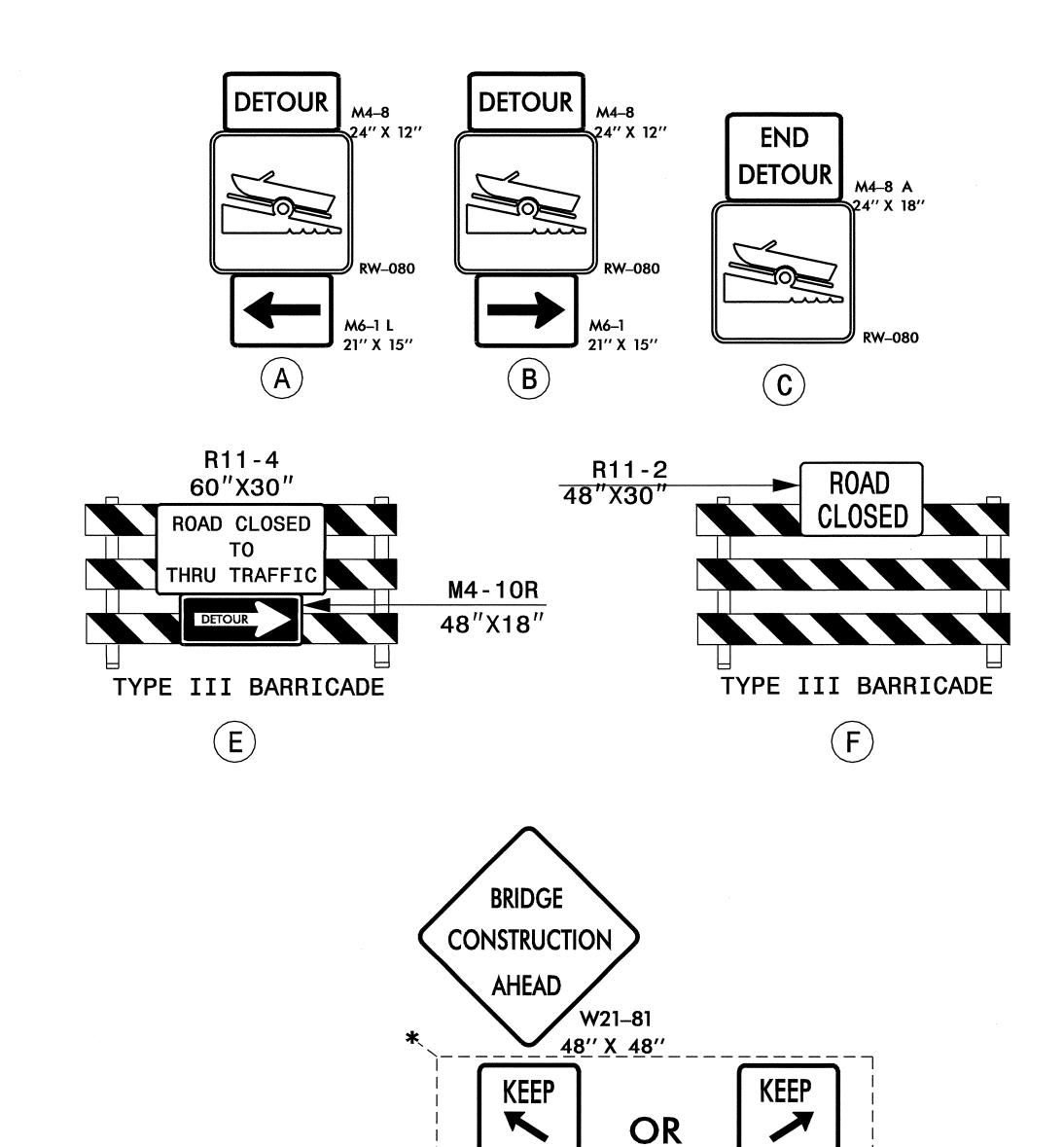
otOINProjNTIPProjects-BNB4820NTrafficNTrafficControINTCPNB-4820_TC_TCP_02_GenNotes.dg WZTC244738

PROJ. REFERENCE NO. SHEET NO.

B-4820
TCP-3



REFER TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9 FOR APPLICABLE NOTES.



LEFT

R4-8 B

24" X 30"

(G)

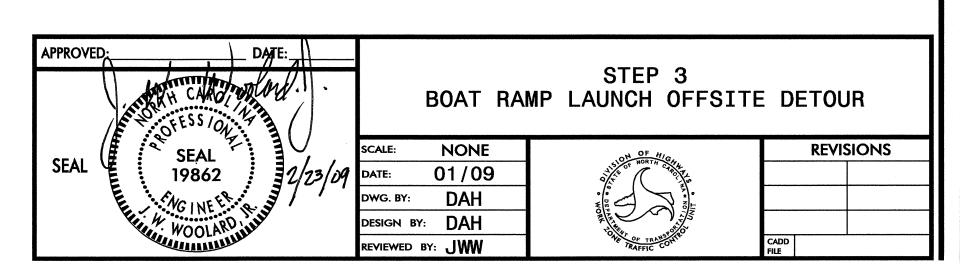
* USE SIGN TO DIRECT BOAT TRAFFIC OPPOSITE THE SIDE OF BRIDGE REMOVAL.

RIGHT

R4-7 A

24" X 30"

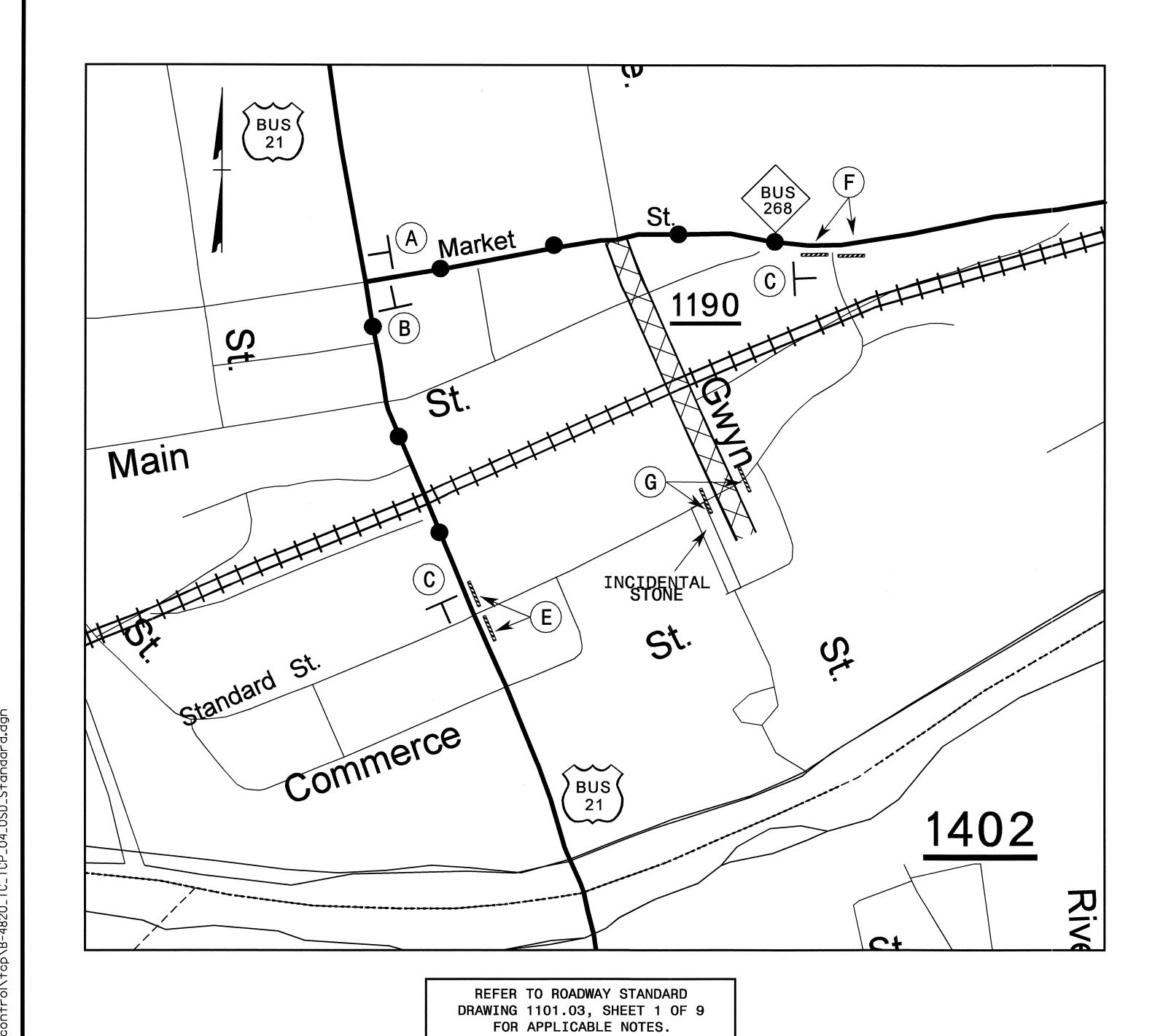
**NOTE: SIGN ASSEMBLY "G" LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.

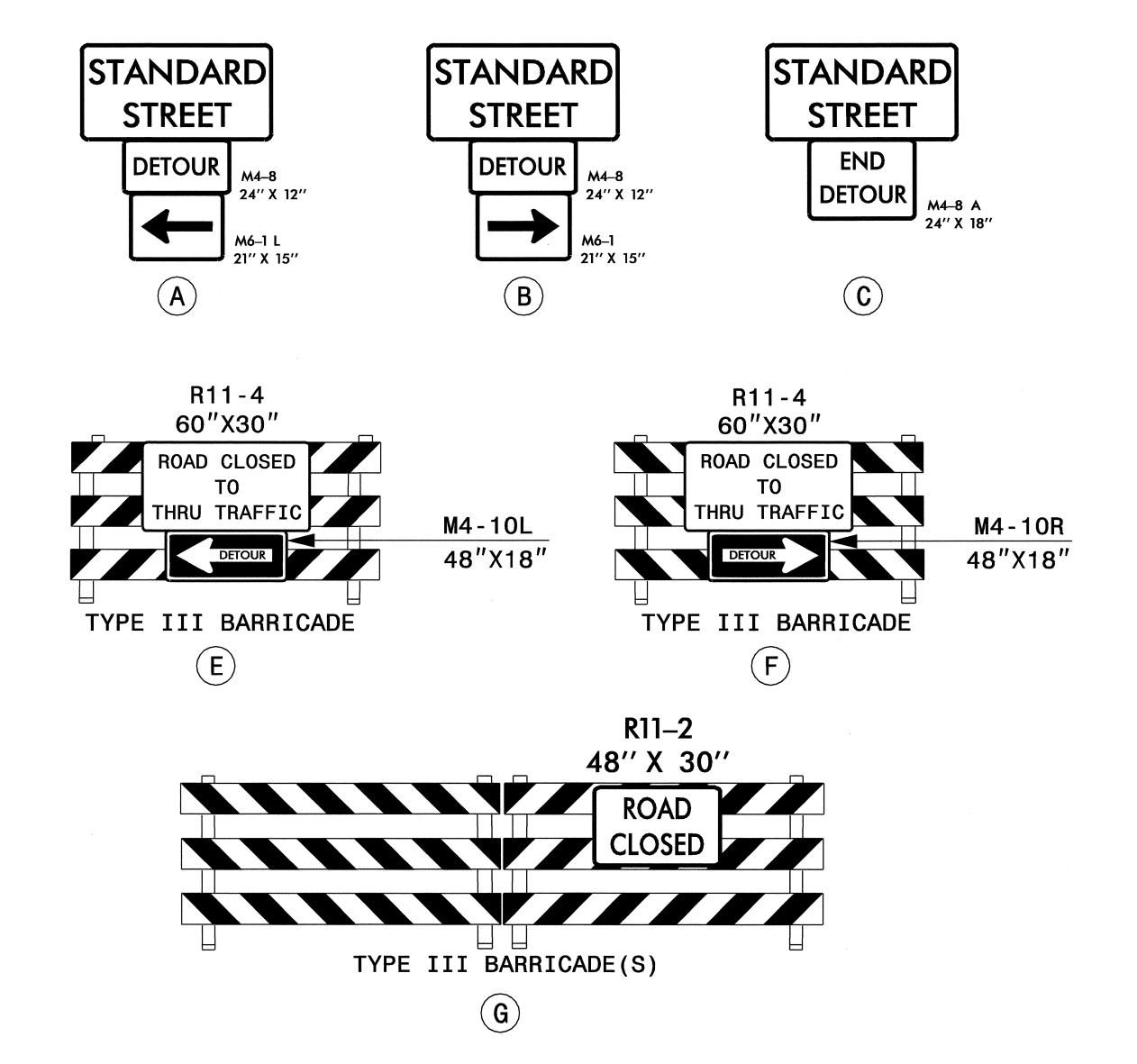


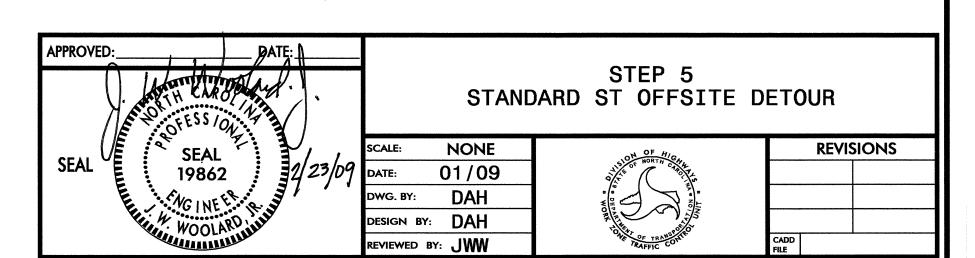
PROJ. REFERENCE NO. SHEET NO.

B-4820

TCP-4

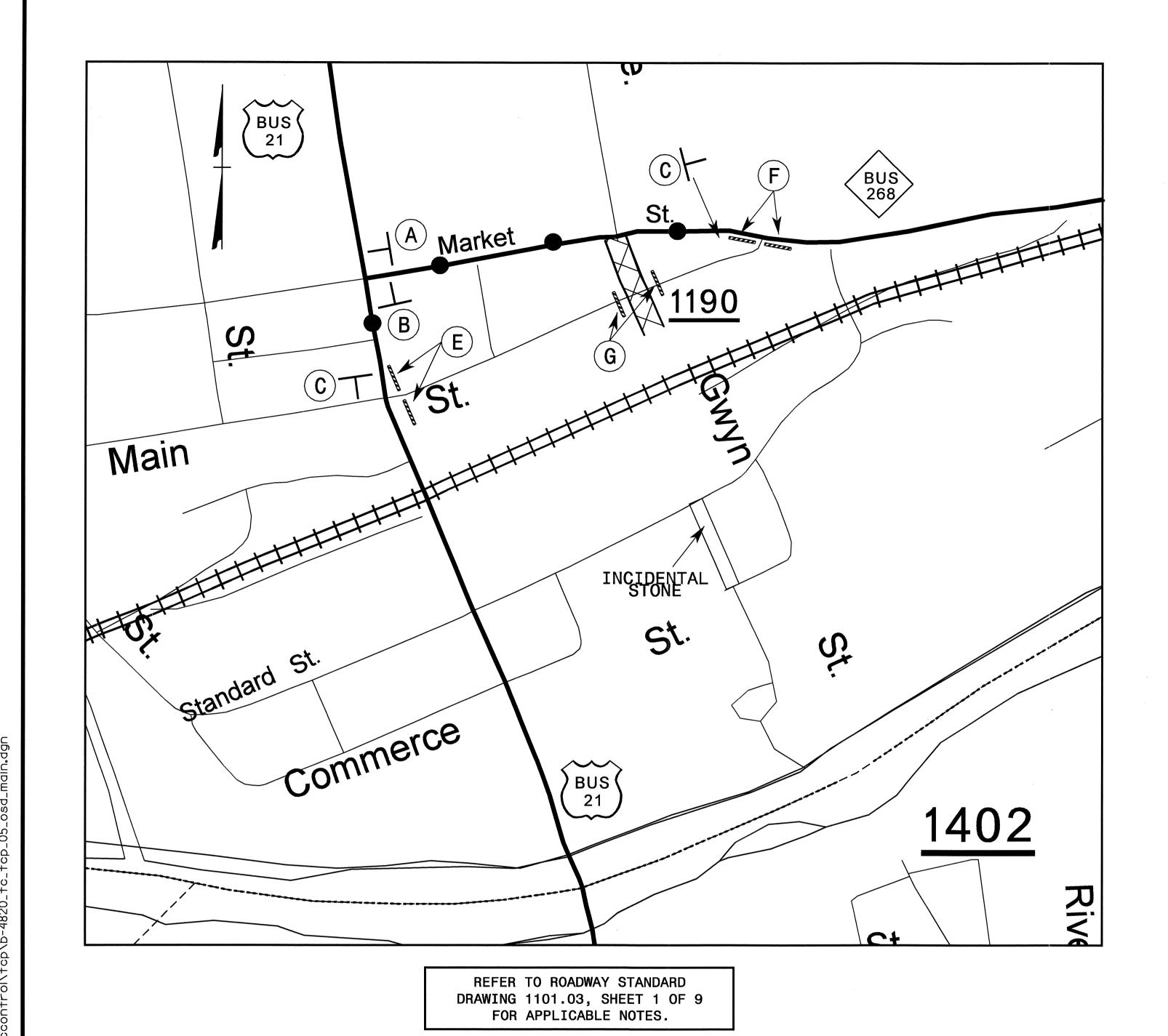


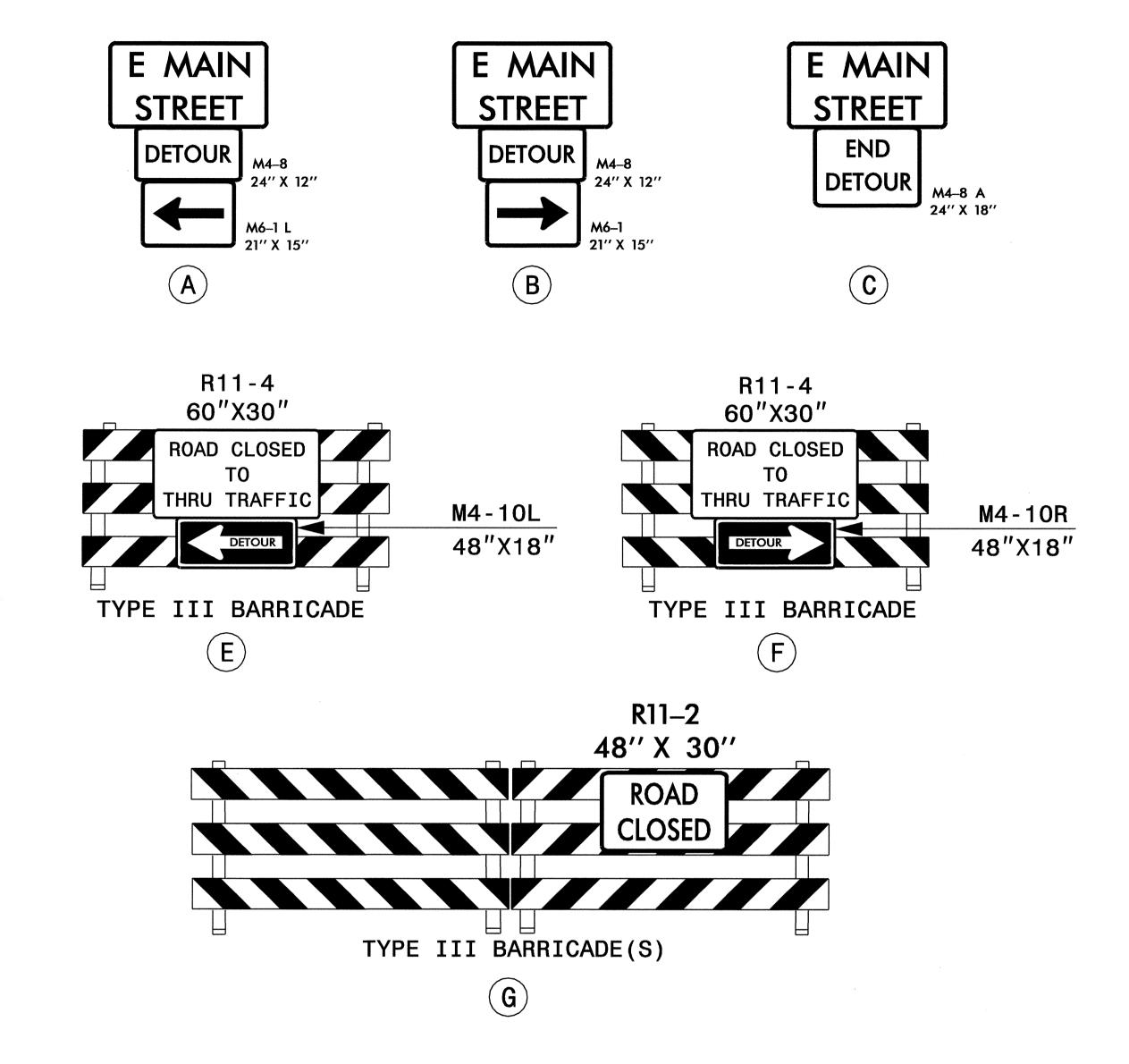


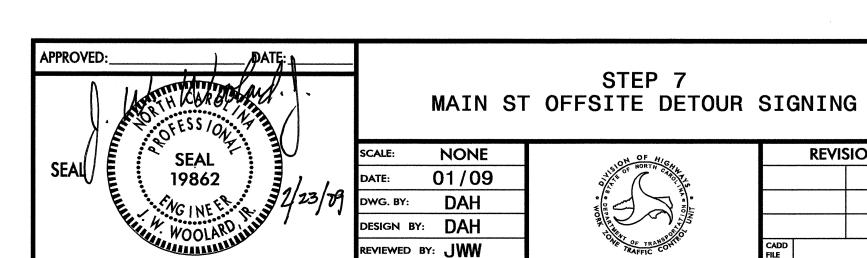


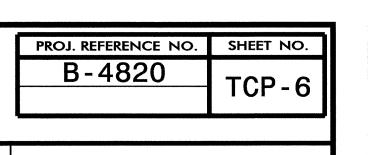
PROJ. REFERENCE NO. SHEET NO. B-4820 TCP-5

REVISIONS







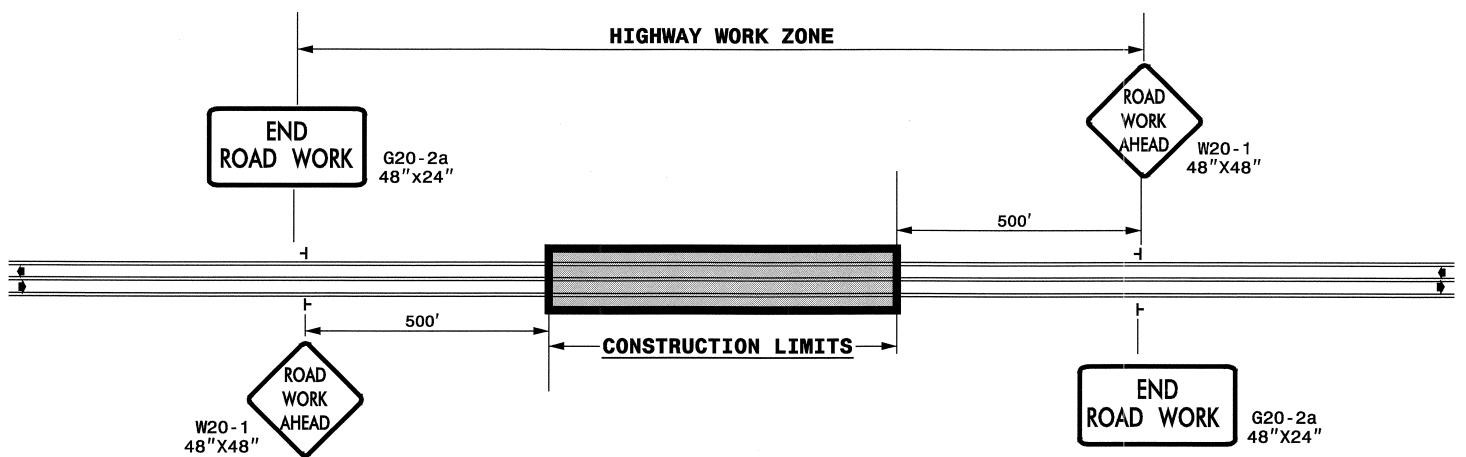


<u>်</u>

Z

IGH

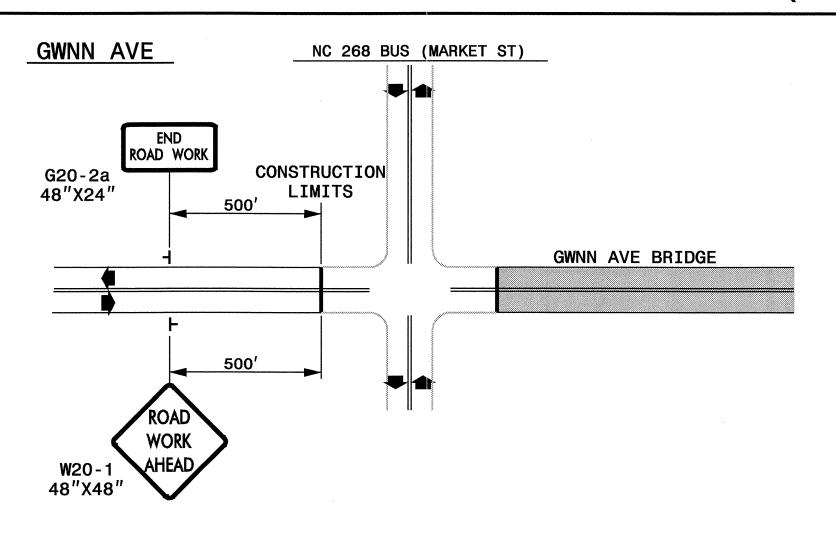
TWO-WAY UNDIVIDED ** (NC 268 BUS (MARKET ST))



TRANSPORTATION CAROLINA HIGHWAYS NORTH OF DIVISION **OF** 0F STATE DEPT

JG FOR VIDED NG SIGNS

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (GWNN AVE)



GENERAL NOTES

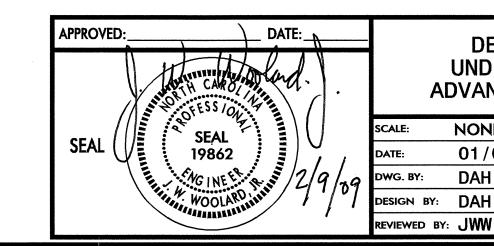
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- 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.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

├ STATIONARY SIGN

■ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1



| DETAIL | _ DRAV | VING | FOR | TWO-V | VAY |
|----------|--------|-------|------|-------|-------|
| UNDIVID | ED A | ND UF | RBAN | FREE | WAYS |
| ADVANCED | WORK | ZONE | WAR | NING | SIGNS |
| | | | | | |

NONE 01/09



REVISIONS 7_98 | 10/01 10–98 03/04 01/01 | 11/04