STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO. SHEET NO. **B-4240** TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

— NORTH ARROW

DIRECTION OF TRAFFIC FLOW

GENERAL

POLK COUNTY

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JANUARY 2002 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	<u>TITLE</u>
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
1135.01	CONES
1150.01	FLAGGERS
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1250.01	PAVEMENT MARKER SPACING
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

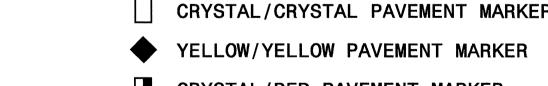
INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, INDEX OF SHEETS, AND FINAL PAVEMENT MARKING SCHEDULE
TCP-2	GENERAL NOTES AND PHASING
TCP-3	DETOUR ROUTE WITH SIGNING AND BARRICADE PLACEMENT
TCP-4	DETOUR SIGN DESIGN
TCP-5	DETAIL DRAWING FOR TEMPORARY SHORING
TCP-6	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS
TCP-7	REPLACEMENT DETAIL FOR RSD 1101.04
TCP-8	REPLACEMENT DETAIL FOR RSD 1130.01
TCP-9	REPLACEMENT DETAIL FOR RSD 1145.01

NORTH ARROW
PROPOSED PVMT EXIST. PVMT.
WORK AREA
REMOVAL OF EXISTING PAVEMENT
TRAFFIC CONTROL DEVICES
T TYPE I BARRICADE
TYPE III BARRICADE
CONE
DRUM
FLASHING ARROW PANEL (TYPE C)
TYPE 'B' WARNING LIGHT
— STATIONARY SIGN
PORTABLE SIGN
STATIONARY OR PORTABLE SIGN
WARNING FLAGS
CRASH CUSHION
CHANGEABLE MESSAGE SIGN
TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
POLICE
FLAGGER
PAVEMENT MARKINGS
CRYSTAL/CRYSTAL PAVEMENT MARKER

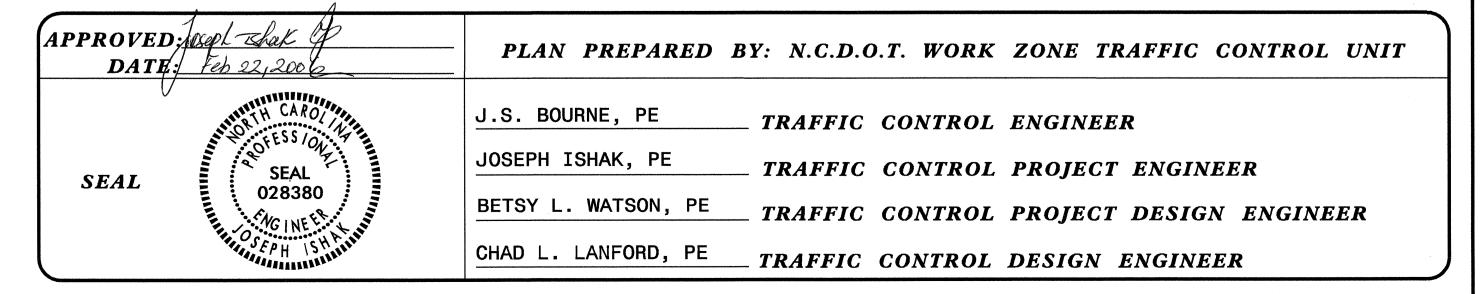
FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY BREAKDOWN		TOTAL QUANTITY
		PAVEMENT MARKING		
		PAINT (4")		
PA	WHITE EDGELINE (2X)	1900 LF		
PD	2 FT. WHITE MINISKIP (2X)	20 LF		
ΡI	YELLOW DOUBLE CENTER LINE (2X)	1900 LF		
			TOTAL	3820 LF
		PAINT (24")		
P4	STOPBAR (2X)	30 LF		
			TOTAL	30 LF
		PAVEMENT MARKERS		
		SNOWPLOWABLE RAISED	·	
ME	TYPE 2, YELLOW & YELLOW	14 EA		
			TOTAL	14 EA



CRYSTAL/RED PAVEMENT MARKER

PAVEMENT MARKING SYMBOLS



GENERAL NOTES

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO K) STATE FORCES WILL PROVIDE PERMANENT SIGNING WITHIN THE PROJECT LIMITS.

> M) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.

L) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.

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

TRAFFIC CONTROL DEVICES

- Q) SPACE CHANNELIZING DEVICES IN WORK AREAS IN FEET NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT (3m) ON-CENTER IN RADII, AND 3 FT (1m) OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- R) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

PAVEMENT MARKINGS AND MARKERS

S) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAI	ME	MARKING	MARKER
1. SR 1506 (SCI 2. SR 1508 (MAI	•		SNOWPLOWABLE SNOWPLOWABLE

- T) PLACE AT LEAST TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE ON NEW ASPHALT PAVEMENT. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.
- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- V) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.

PHASING

PROJ. REFERENCE NO.

B-4240

SHEET NO.

TCP-2

LOCAL NOTES:

MAINTAIN VEHICULAR ACCESS TO DRIVEWAYS WITHIN PROJECT LIMITS THROUGHOUT THE DURATION OF THE PROJECT.

STEP 1: USING RSD 1101.03 AND SHEETS TCP-3 AND TCP-4, INSTALL DETOUR SIGNS, PLACE BARRICADES TO CLOSE SR 1508 (MARKHAM ROAD) TO THROUGH TRAFFIC, AND SHIFT TRAFFIC ONTO OFF-SITE DETOUR.

- USING SHEET TCP-6, INSTALL ADVANCED WORKZONE WARNING SIGNS ON -Y-(SCREVEN ROAD).

STEP 2: USING RSD 1101.02 SHEET 1 OF 7, PERFORM THE FOLLOWINGS: - INSTALL TEMPORARY GUARDRAIL ALONG RIGHT SIDE OF -Y-FROM STAS. 12+25+/- TO 13+75+/- OR AS DIRECTED BY THE ENGINEER. SEE SHEET TCP-5.

- INSTALL TEMPORARY SHORING FROM -Y- STA.12+25+/- (OFFSET 20' RIGHT) TO -Y- STA.12+45+/- (OFFSET 20' RIGHT) AND FROM -Y- STA.13+00+/- (OFFSET 25' RIGHT) TO -Y- STA.13+30+/-(OFFSET 25' RIGHT). SEE SHEET TCP-5.

STEP 3: AWAY FROM TRAFFIC, REMOVE EXISTING STRUCTURE NO. 193 AND CONSTRUCT THE PROPOSED STRUCTURE. SEE ROADWAY PLANS.

STEP 4: USING RSD 1101.02 SHEET 1 OF 7, COMPLETE THE FOLLOWING:

- REMOVE TEMPORARY GUARDRAIL AND TEMPORARY SHORING, INSTALLED IN THE STEP 2, AND PLACE PROPOSED GUARDRAIL ALONG -Y- AND -L-.

- CONSTRUCT PROPOSED ROADWAY FROM -L- STAS. 10+00.00 TO 12+50.00 UP TO AND INCLUDING THE FINAL SURFACE COURSE.

STEP 5: USING RSD 1101.02 SHEET 1 OF 7, RESURFACE -Y- FROM STAS. 11+50.00 TO 13+75.00.

- PLACE PERMANENT PAVEMENT MARKINGS (PAINT) AND MARKERS (SNOWPLOWABLE) ON -L- STAS. 10+00+/- TO 12+50+/- AND -Y- STAS. 11+50+/- TO 13+75+/-. AND TIE INTO EXISTING MARKINGS AND MARKERS.

STEP 6: REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN SR 1508 (MARKHAM ROAD) TO TRAFFIC.

LANE AND SHOULDER CLOSURE REQUIREMENTS

OR REMOVAL OF DEVICES.

OR DIRECTED BY THE ENGINEER.

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.

MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC

DETAIL DRAWINGS. STANDARD DETAILS AND ROADWAY DETAILS ARE NOT

ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF

MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE

DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF

THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN,

- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT (12m) OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING THE REPLACEMENT DETAIL FOR ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT (1.5m) 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.
- D) 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.
- E) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- F) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT (5m) OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY

PAVEMENT EDGE DROP OFF REQUIREMENTS

G) 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 A DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES (50mm) ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES (75mm) 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.

H) DO NOT EXCEED A DIFFERENCE OF 1.5 inches (40mm) IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT (150m) IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

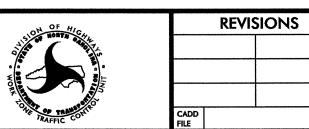
J) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT (31m) FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

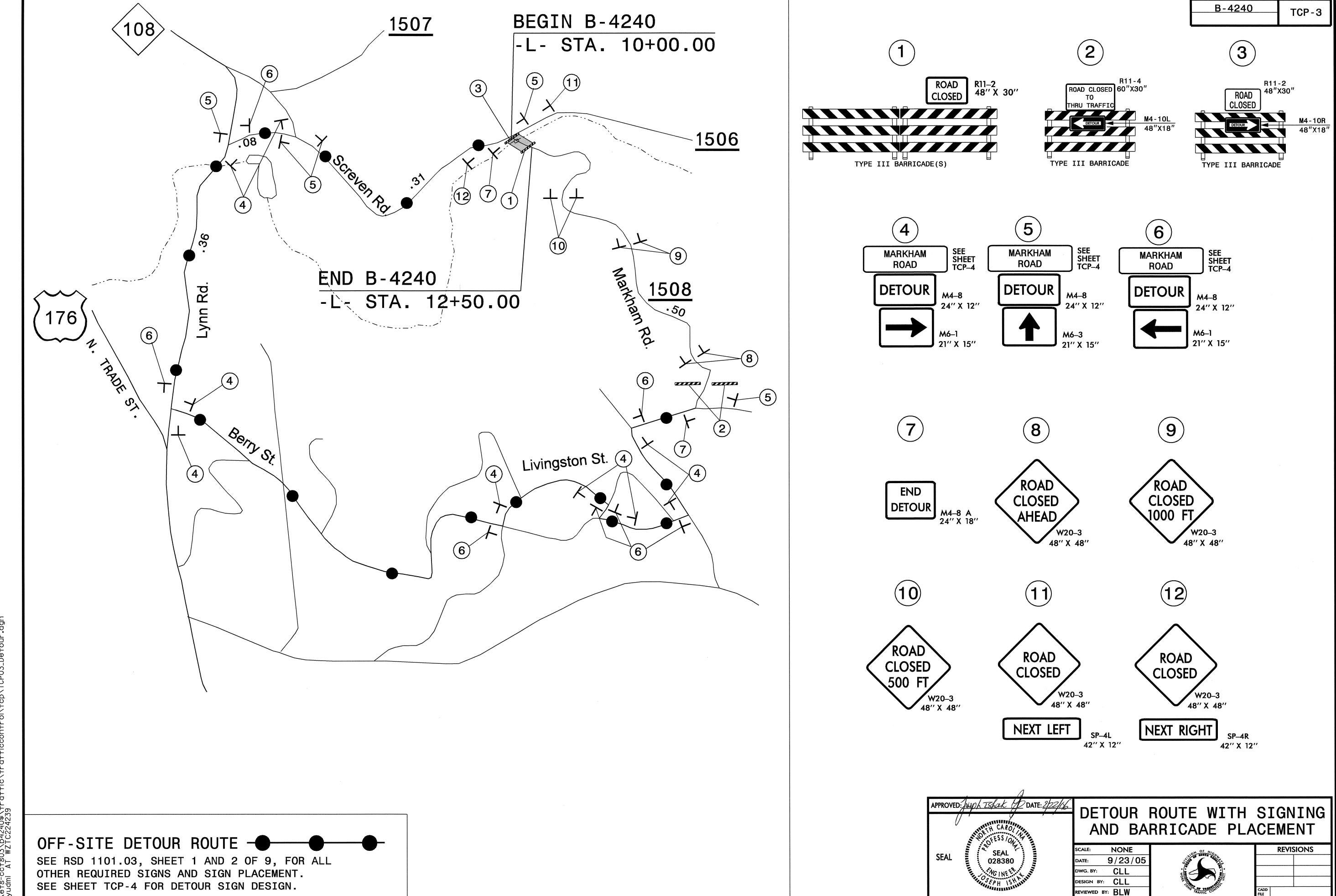
APPROVED: Stark J DATE: 2/22/06 SEAL 028380 DWG. BY: DESIGN BY: CLL

GENERAL NOTES AND PHASING

NONE 9/23/05 CLL REVIEWED BY: BLW



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PROJ. REFERENCE NO.

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PROJ. REFERENCE NO. SHEET NO.

B-4240

TCP-4

Sign Number:

Design By: DME Project ID: B-4240 Check By: DIV: 14

STD #: N/A
Date: Apr 22,2005

N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH SIGNING DEPARTMENT THE THE PARTY OF T

Sign Width: 4'-0"

Quantity: 1

Background Color: Fluorescent Orange

Height: 2'-0"

Legend & Border Color: Black

Total Area: 8.0 Sq.Ft.

Type: D Ground

Border Type: Recessed

Backing Material: 0.125 in. Aluminum

0.079 in. Composite

Width: 0.63" Radii: 1.5"

Recess: 0.38"

NOTES:

- 1. Legend and border shall be direct applied non-reflective sheeting.
- 2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.



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Spacing Factor is 1 unless specified otherwise

FILENAME: GS40_ENGL

SEAL O28380

DETOUR SIGN DESIGN

SCALE: NONE

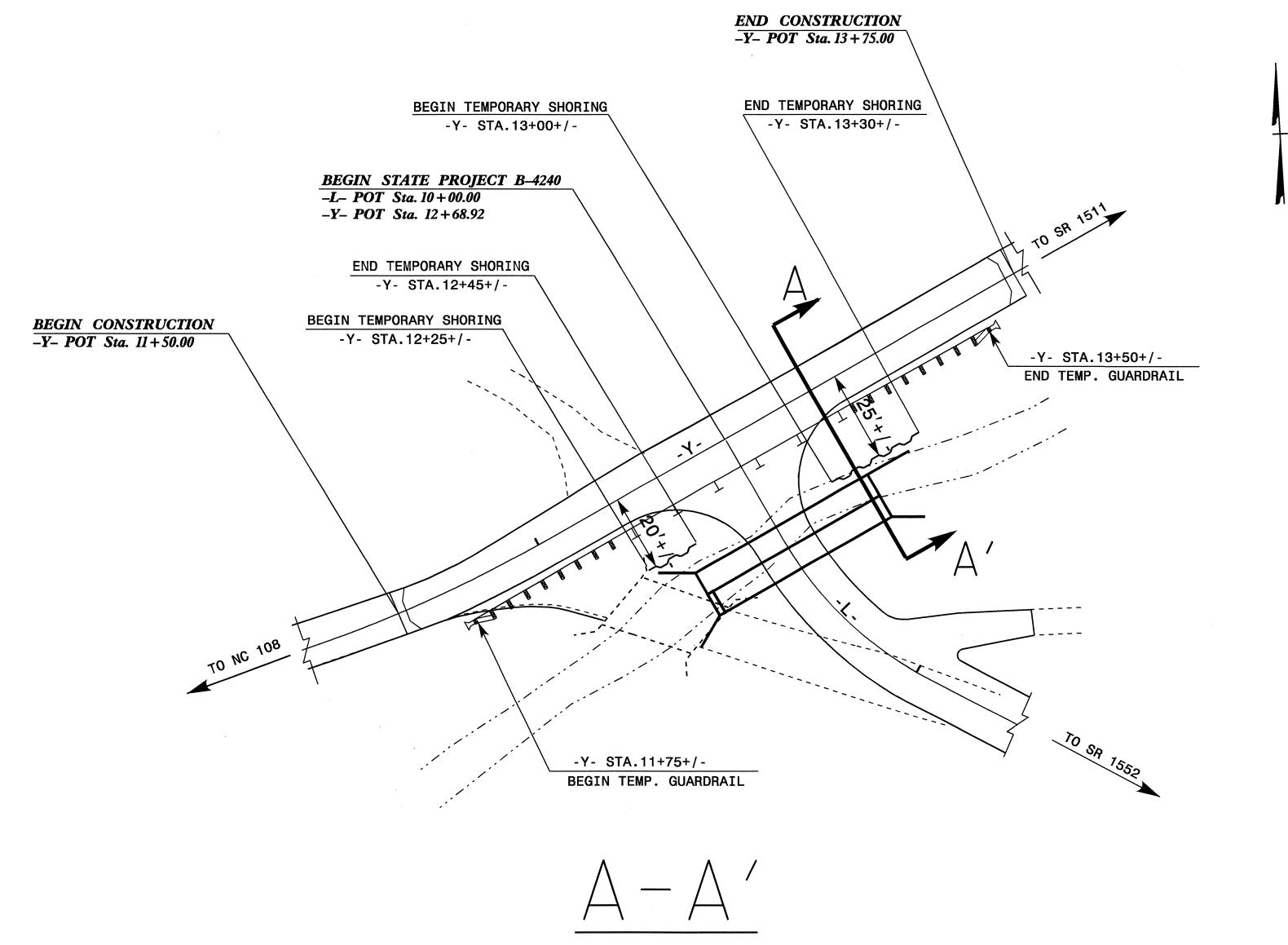
DATE: 9/23/05

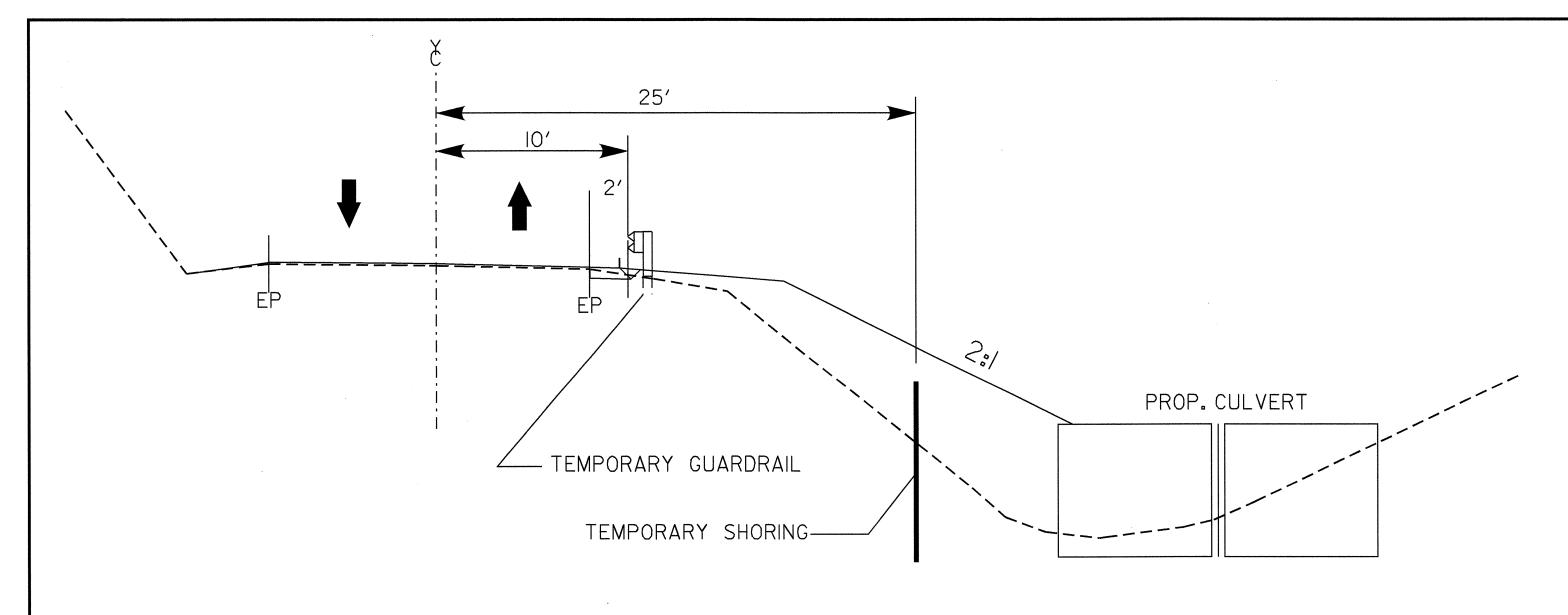
DWG. BY: CLL

DESIGN BY: CLL

REVISIONS

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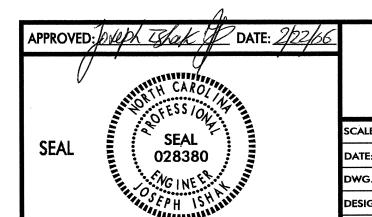




NOTES:

- 1. THE LOCATION OF THE TEMPORARY SHORING, LABELED "TEMPORARY SHORING, NOT BARRIER SUPPORTED".
- 2. FOR DESIGN OF TEMPORARY SHORING, USE THE FOLLOWING SOIL PARAMETERS:

UNIT WT. OF SOIL ABOVE WATER TABLE, $\mathcal{T}=120~\mathrm{psf}$, UNIT WT. OF SOIL BELOW WATER TABLE, $\mathcal{T}'=60~\mathrm{psf}$, FRICTION ANGLE, $\Phi=30$ °, COHESION, C = 0 pcf.



DETAIL DRAWING FOR TEMPORARY SHORING

SCALE: NONE

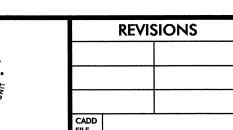
DATE: 02/20/06

DWG. BY: AYL

DESIGN BY: AYL

REVIEWED BY: JI

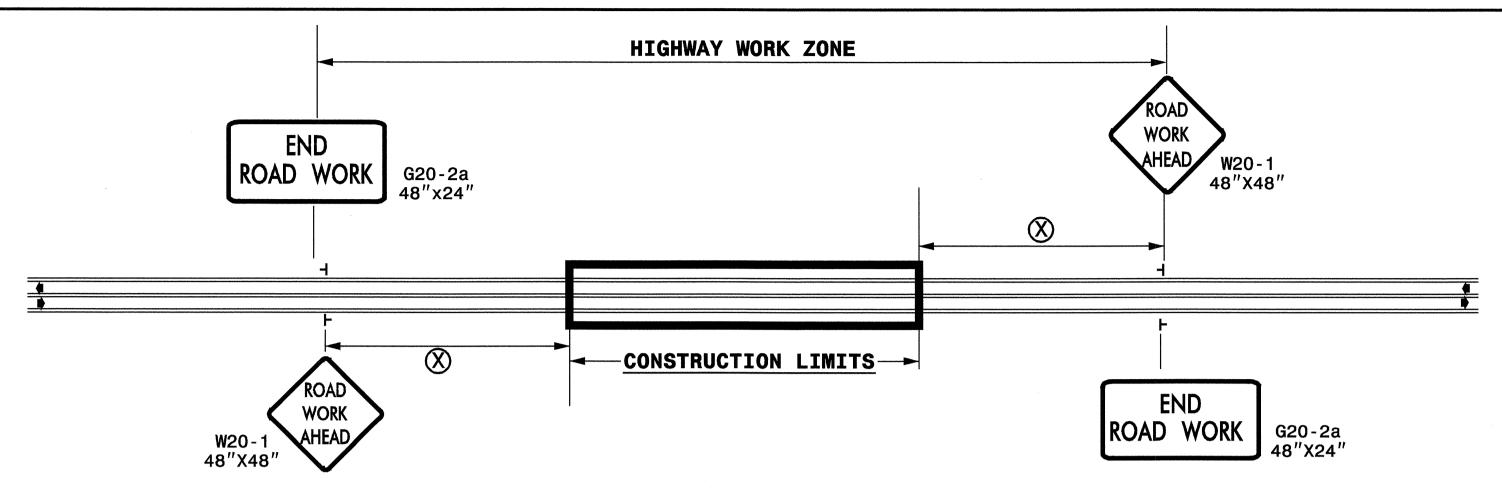




AT WZTC224239

PROJ. REFERENCE NO. SHEET NO. B-4240 TCP-6

TWO-WAY UNDIVIDED & URBAN FREEWAYS (L-LINES)

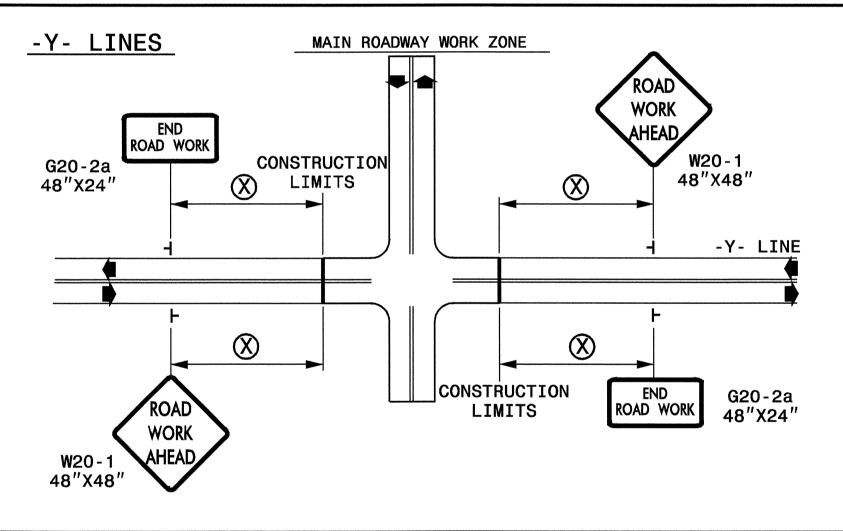


	RECOMMENDED MINIMUM SIGN SPACING
POSTED SPEED LIMIT (M.P.H.)	⊗
≤ 50	500′
≥ 55	1000′

TRANSPORTATION HIGHWAYS NORTH 0F DIVISION **0**F 0F

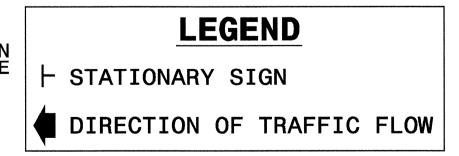
RALEIGH,

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)

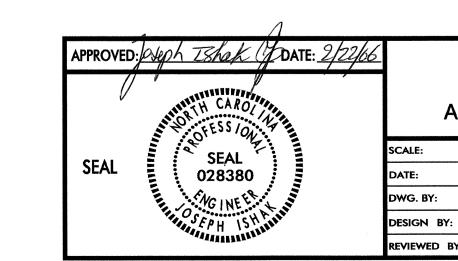


GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR IX) 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.



SHEET 1 OF 1



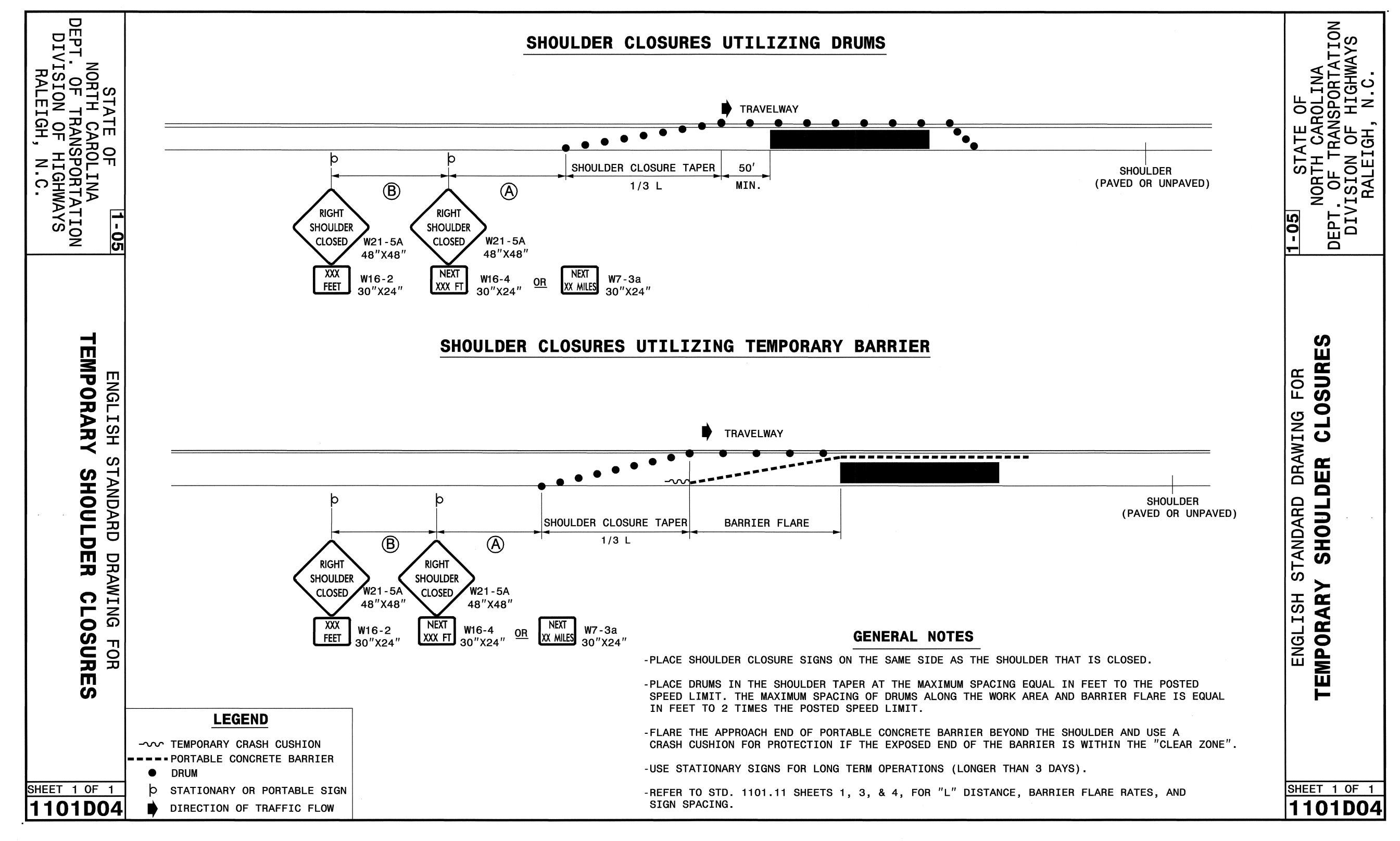
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ADV	ANCED	WORK	ZOI	NE V	NARN	IING	SIGN

′ :	MMM	TRAFFIC
	MMM	77
	MMM	8
	12/02/04	
	NONE	SION OF

	REVIS	SIONS
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PROJ. REFERENCE NO. SHEET NO.

B-4240
TCP-7



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REPLACEMENT DETAIL FOR RSD 1101.04

SCALE: NONE

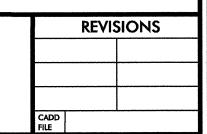
DATE: 11/04

DWG. BY: MMM

DESIGN BY: MMM

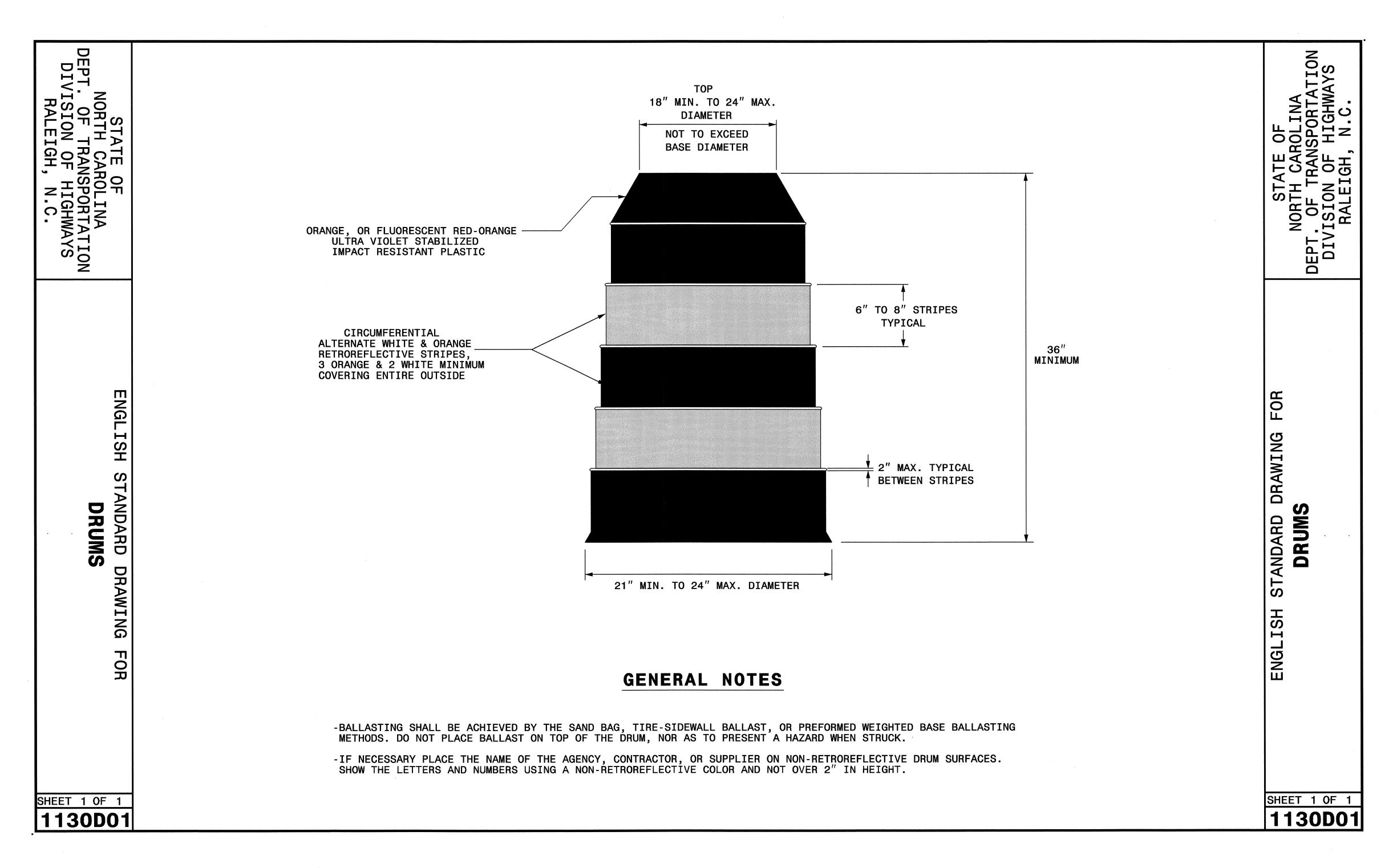
REVIEWED BY: MMM

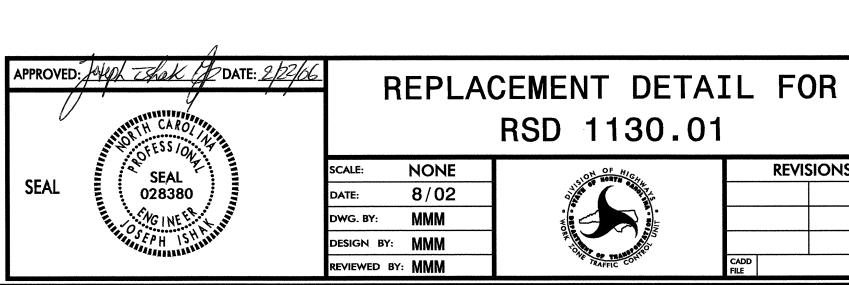




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REVISIONS



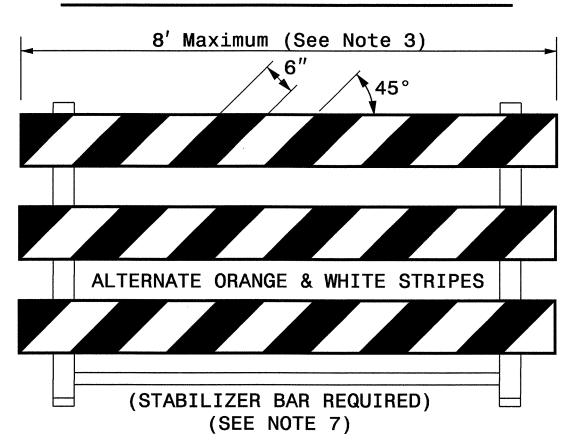


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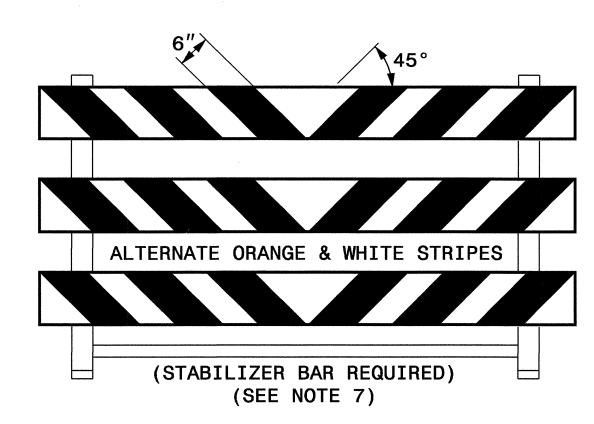
D DRAWING ADES

TYPE III BARRICADE



TYPE III BARRICADE

END-OF-ROADWAY APPLICATIONS



GENERAL NOTES

- 1) HORIZONTAL RAILS FOR TYPE-III BARRICADES MAY BE HOLLOW/CORRUGATED EXTRUDED RIGID POLYOLEFIN, HIGH DENSITY POLYETHYLENE, OR OTHER NCDOT APPROVED RAILS. BARRICADE RAILS OF FRANGIBLE PLASTICS SUCH AS PVC MAY NOT BE USED. IF APPROVED PLASTIC TYPE RAILS ARE USED, THEY MUST BE FLAME TREATED BY THE MANUFACTURER SO THAT REFLECTIVE SHEETING MAY ADHERE PROPERLY.
- 2) BARRICADES AND BARRICADE RAILS ARE APPROVED AS A SINGLE UNIT.
- 3) BARRICADE SHALL BE LIMITED TO A MAXIMUM LENGTH OF 8 FT UNLESS NCHRP 350 CRASH TESTED AND NCDOT APPROVED.
- 4) ONLY NCDOT APPROVED COMPOSITE AND ROLL-UP SIGNS MAY BE MOUNTED ON THE BARRICADE.
- 5) SIGNS MOUNTED ON BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.
- 6) USE TYPE VII, VIII OR IX SHEETING ON BOTH SIDES OF THE RAILS.
- 7) BARRICADE MUST BE NCHRP 350 AND NCDOT APPROVED WITH STABILIZER BAR OR ADEQUATE LATERAL BRACING.
- 8) ASSEMBLY OF THE GENERIC BARRICADES MUST BE SELF CERTIFIED BY THE ASSEMBLER.
- 9) BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED PATTERN.
- 10) STRIPES ON WORK ZONE BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE RETROREFLECTIVE STRIPES, SLOPED DOWNWARD TOWARDS THE SIDE WHICH TRAFFIC IS TO PASS OR TURN IN DETOURING. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES. USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES.
- 11) SEE APPROVED PRODUCTS LIST FOR MANUFACTURERS OF APPROVED BARRICADES.
- 12) PLACE MANUFACTURER'S NAME AND FEDERAL HIGHWAY ADMINISTRATION'S NCHRP 350 APPROVAL LETTER NUMBER ON BARRICADE.
- 13) USE SANDBAGS PLACED ON THE LOWER PART OF THE FRAME FOR BALLASTING. DO NOT PLACE SANDBAGS ON TOP OF A STRIPED RAIL. DO NOT BALLAST BARRICADES BY HEAVY OBJECTS SUCH AS ROCKS, CHUNKS OF CONCRETE OR OTHER ITEMS THAT WOULD CAUSE DAMAGE IF THE BARRICADE IS STRUCK BY A VEHICLE.

ADES ARR TYP

SHEET 1 OF 1 1145D01

SHEET 1 OF 1 1145D01

> APPROVED: Juleph Islak GDATE: 2/22/06 SEAL

REPLACEMENT DETAIL FOR RSD 1145.01

NONE 11/04 MMM DWG. BY: REVIEWED BY: MMM



REVISIONS