STATE PROJECT REFERENCE NO.	SHEET NO.
B-4194	TCP-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

McDOWELL COUNTY

TIP PROJECT: B-4194

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	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	TEMPORARY PAVEMENT MARKINGS PAINT (4")	PAY ITEM QUANITY BREAKDOWN	TOTAL QUANTITY
PA	WHITE EDGELINE (1X)		2,450 L.F.	
PI	YELLOW DOUBLE CENTER (1X)		2,450 L.F.	
			TOTAL	4,900 L.F.

NOTE: FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATIONS, AND 3X IMPLIES THREE APPLICATIONS.

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	FINAL PAVEMENT MARKINGS PAINT (4")	BREAKDOWN	TOTAL QUANTITY
PA	WHITE EDGELINE (2X)		5,880 L.F.	
PI	YELLOW DOUBLE CENTER (2X)		5,880 L.F.	
			TOTAL	11,760 L.F.

NOTE: FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATIONS, AND 3X IMPLIES THREE APPLICATIONS.

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT.
- EXIST. PVMT.
- WORK AREA
- REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

- TYPE I BARRICADE
- TYPE II BARRICADE
- TYPE III BARRICADE
- CONE
- DRUM
- SKINNY DRUM
- FLASHING ARROW PANEL (TYPE C)
- 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
- YELLOW/YELLOW PAVEMENT MARKER
- CRYSTAL/RED PAVEMENT MARKER
- PAVEMENT MARKING SYMBOLS

APPROVED: Chad L. Lanford
DATE: 3-17-08

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030528 CHAD L. LANFORD

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

J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
M. M. McDIARMID, P.E. TRAFFIC CONTROL PROJECT ENGINEER
C.L. LANFORD, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. B. COATS TRAFFIC CONTROL DESIGN ENGINEER

PROJECT NOTES

GENERAL NOTES

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.

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

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 WITHIN 40 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.

C) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

E) PROVIDE ALL PERMANENT SIGNING.

F) PROVIDE ALL DETOUR SIGNING.

G) COVER OR REMOVE ALL DETOUR SIGNS OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.

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

TRAFFIC CONTROL DEVICES

I) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER 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.

J) 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

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

ROAD NAME	MARKING	MARKER
-L- (SR 1129)	PAINT	N/A

L) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
-L- (SR 1129)	PAINT	N/A

M) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

N) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.

O) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

PHASING

PHASE I

STEP 1. INSTALL ALL OFFSITE DETOUR SIGNING. IF WORK IS NOT PURSUED WITHIN THREE DAYS OF SIGN INSTALLATION, THE SIGNS SHALL BE COVERED OR REMOVED IN A METHOD APPROVED BY THE ENGINEER ACCORDING TO STANDARD SPECS 1110, (SEE TCP-3).

STEP 2. USING SIGNS AS SHOWN ON TCP-3, CLOSE SR 1129 (LAVENDER ROAD) FROM STA. 10+30+/- -L- TO STA. 25+00+/- -L-. MAINTAIN ACCESS TO ALL DRIVEWAYS WITHIN THE PROJECT LIMITS.

STEP 3. PLACE DRUMS AND BARRICADES AS SHOWN ON TCP-4. REMOVE EXISTING BRIDGE. CONSTRUCT NEW BRIDGE, APPROACHES, AND DRAINAGE AS SHOWN ON TCP-4. CONSTRUCT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AS FOLLOWS:

STA. 12+75+/- -L- TO STA. 21+25+/- -L-

CONSTRUCT UP TO EXISTING EDGE OF SHOULDER ELEVATIONS AS FOLLOWS (SEE TCP-4):

STA. 10+30+/- -L- TO STA. 12+75+/- -L-
STA. 21+25+/- -L- TO STA. 25+00+/- -L-
STA. 10+11+/- -DR1- TO STA. 10+27+/- -DR1-

REMOVE PAVEMENT AS SHOWN ON TCP-4.

PHASE II

STEP 1. PLACE BARRICADES AND DRUMS AS SHOWN ON TCP-5. USING RSD 1101.02 (SHEET 1 OF 9), CONSTRUCT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE TCP-5):

STA. 21+25+/- -L- TO STA. 25+00+/- -L-
STA. 10+11+/- -DR1- TO STA. 10+76+/- -DR1-

REFER TO RSD 1205.01, 1205.02, AND 1205.12. PLACE TEMPORARY PAVEMENT MARKINGS AS FOLLOWS (SEE TCP-5).

STA. 12+75+/- -L- TO STA. 25+00+/- -L-

MAINTAIN ACCESS TO ALL DRIVEWAYS WITHIN THE PROJECT LIMITS.

STEP 2. AWAY FROM TRAFFIC, CONSTRUCT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, INCLUDING DRAINAGE AS FOLLOWS (SEE TCP-5):

STA. 10+30+/- -L- TO STA. 12+75+/- -L-

REMOVE PAVEMENT AS SHOWN ON TCP-5.

STEP 3. USING RSD 1101.02 (SHEET 1 OF 9), PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS, REFER TO RSD NOS. 1205.01, 1205.02, 1205.12 AS FOLLOWS (SEE PM-1):

STA. 10+30+/- -L- TO STA. 25+00+/- -L-
STA. 10+11+/- -DR1- TO STA. 10+76+/- -DR1-

STEP 4. USING FLAGGERS, REMOVE ALL TRAFFIC CONTROL DEVICES AND DETOUR SIGNAGE. REOPEN SR 1129 (LAVENDER RD.) TO A TWO-WAY, TWO-LANE TRAFFIC PATTERN.

APPROVED: Chad L. Lanford DATE: 3-17-08

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030528 CHAD L. LANFORD

PROJECT NOTES AND PHASING

SCALE: NONE
DATE: 03-10-08
DWG. BY: SBC
DESIGN BY: SBC
REVIEWED BY: CLL

REVISIONS

CADD FILE

17-MAR-2008 08:03
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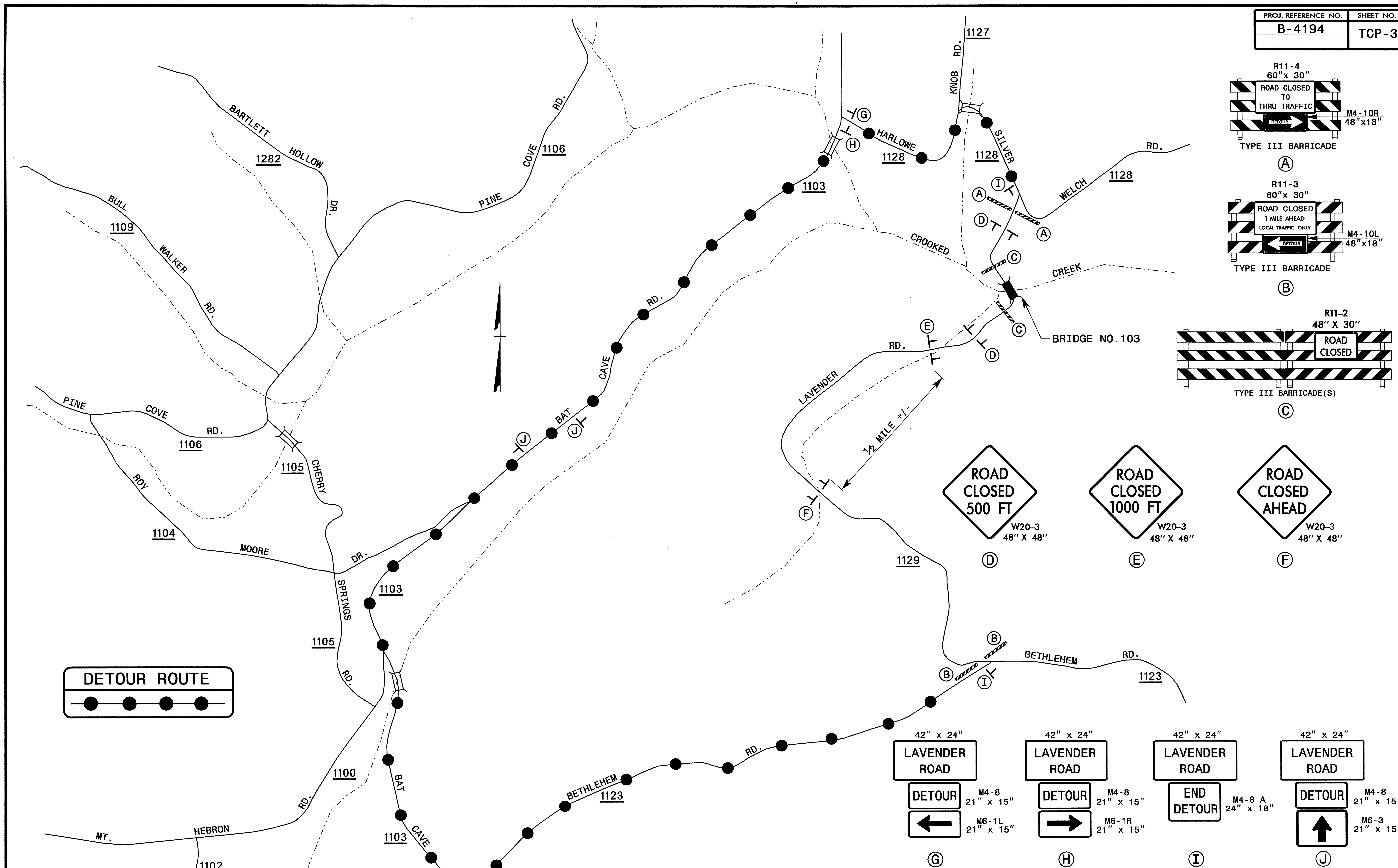
scoats AT WZTC237457

PROJ. REFERENCE NO.	SHEET NO.
B-4194	TCP-3



R11-4
60" x 30"
ROAD CLOSED TO THRU TRAFFIC
DETOUR
M4-10R
48"x18"
TYPE III BARRICADE
A
R11-3
60" x 30"
ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
DETOUR
M4-10L
48"x18"
TYPE III BARRICADE
B
R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE(S)
C
ROAD CLOSED 500 FT
W20-3
48" X 48"
D
ROAD CLOSED 1000 FT
W20-3
48" X 48"
E
ROAD CLOSED AHEAD
W20-3
48" X 48"
F
42" x 24"
LAVENDER ROAD
DETOUR
M4-8
21" x 15"
M6-1L
21" x 15"
G
42" x 24"
LAVENDER ROAD
DETOUR
M4-8
21" x 15"
M6-1R
21" x 15"
H
42" x 24"
LAVENDER ROAD
END DETOUR
M4-8 A
24" x 18"
I
42" x 24"
LAVENDER ROAD
DETOUR
M4-8
21" x 15"
M6-3
21" x 15"
J
DETOUR ROUTE
BRIDGE NO. 103
½ MILE +/-
BARTLETT HOLLOW DR.
1282
PINE COVE RD.
1106
BULL WALKER RD.
1109
1105
CHERRY SPRINGS RD.
ROY
1104
MOORE DR.
1103
BAT CAVE RD.
1100
MT. HEBRON RD.
1102
1131
BETHLEHEM RD.
1123
HARLOWE
1128
KNOB RD.
1127
SILVER
WELCH RD.
CROOKED CREEK
LAVENDER RD.
1129

APPROVED: Chad L. Lanford DATE: 3-17-08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 030528 ENGINEER CHAD L. LANFORD

OFFSITE DETOUR

SCALE:	1" = 500'
DATE:	03-10-08
DWG. BY:	SBC
DESIGN BY:	SBC
REVIEWED BY:	CLL

REVISIONS

CADD FILE

17-MAR-2008 08:03
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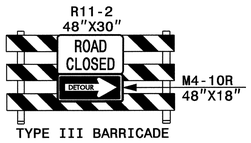
scoats AT WZTC237457

PROJ. REFERENCE NO.	SHEET NO.
B-4194	TCP-4

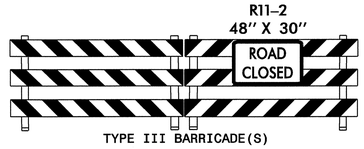


TYPE III BARRICADE

Ⓐ

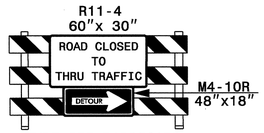
TYPE III BARRICADE

Ⓑ



TYPE III BARRICADE(S)

Ⓒ



TYPE III BARRICADE

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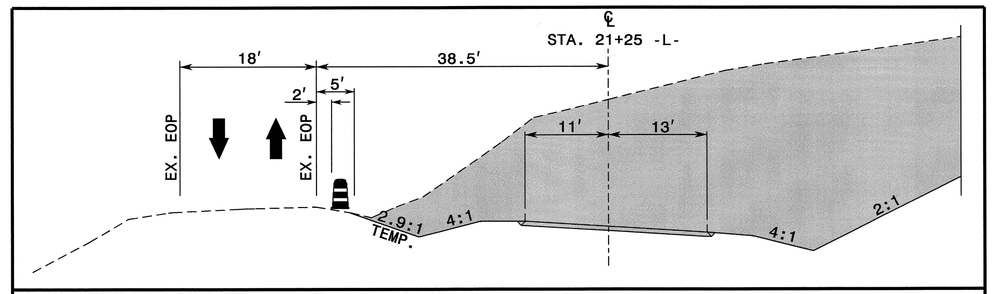

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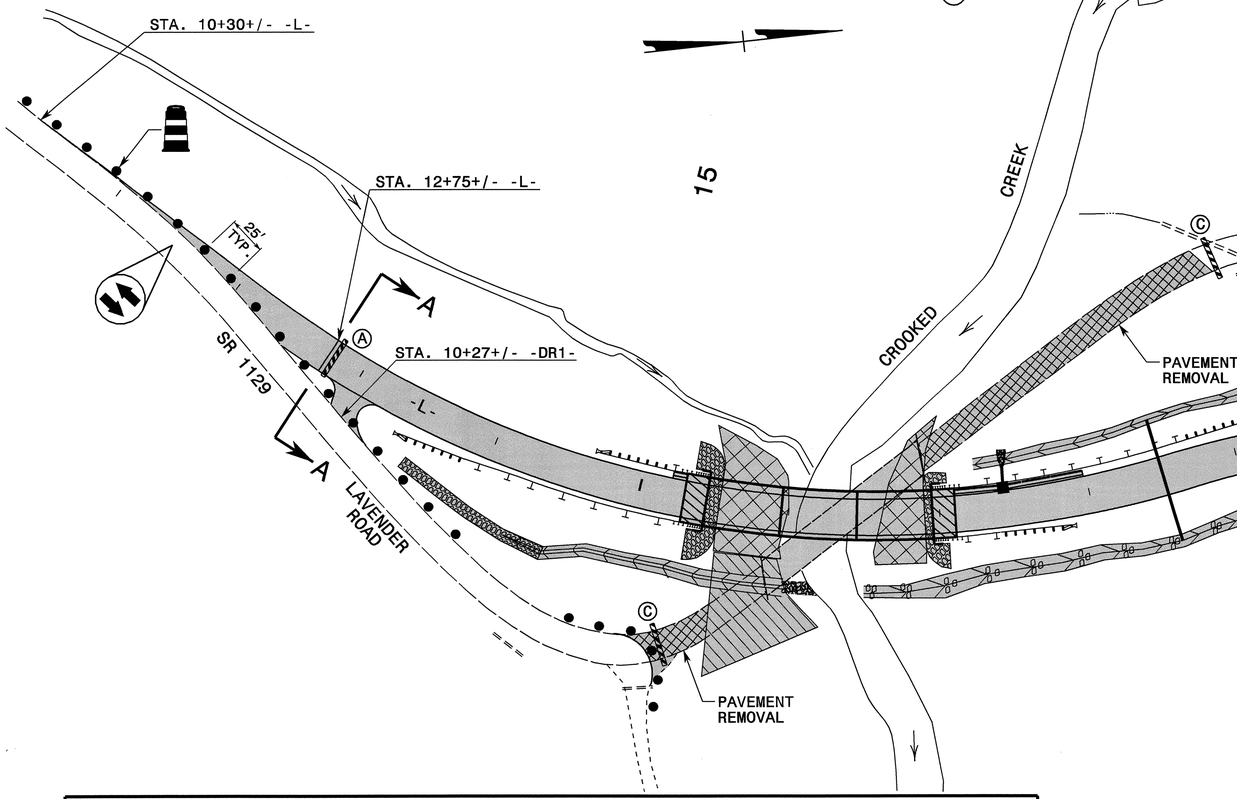

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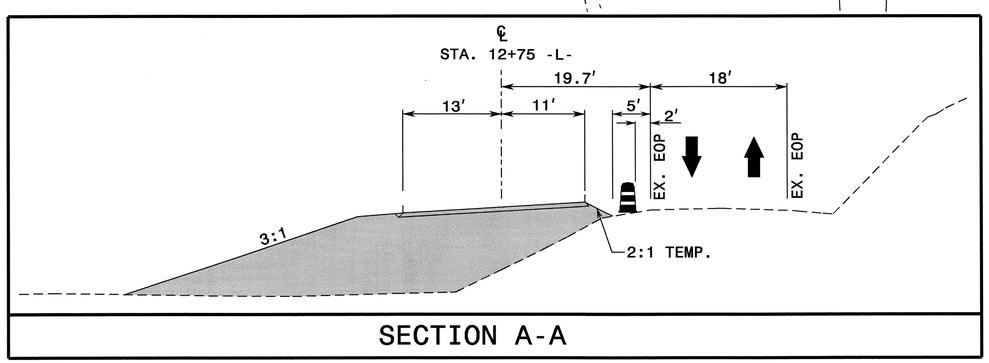

SECTION A-A

APPROVED: Chad L. Lanford DATE: 3-17-08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 030528 ENGINEER CHAD L. LANFORD

PHASE I DETAILS

SCALE:	1"=50'
DATE:	03-10-08
DWG. BY:	SBC
DESIGN BY:	SBC
REVIEWED BY:	CLL

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

REVISIONS

CADD FILE

17-MAR-2008 08:02
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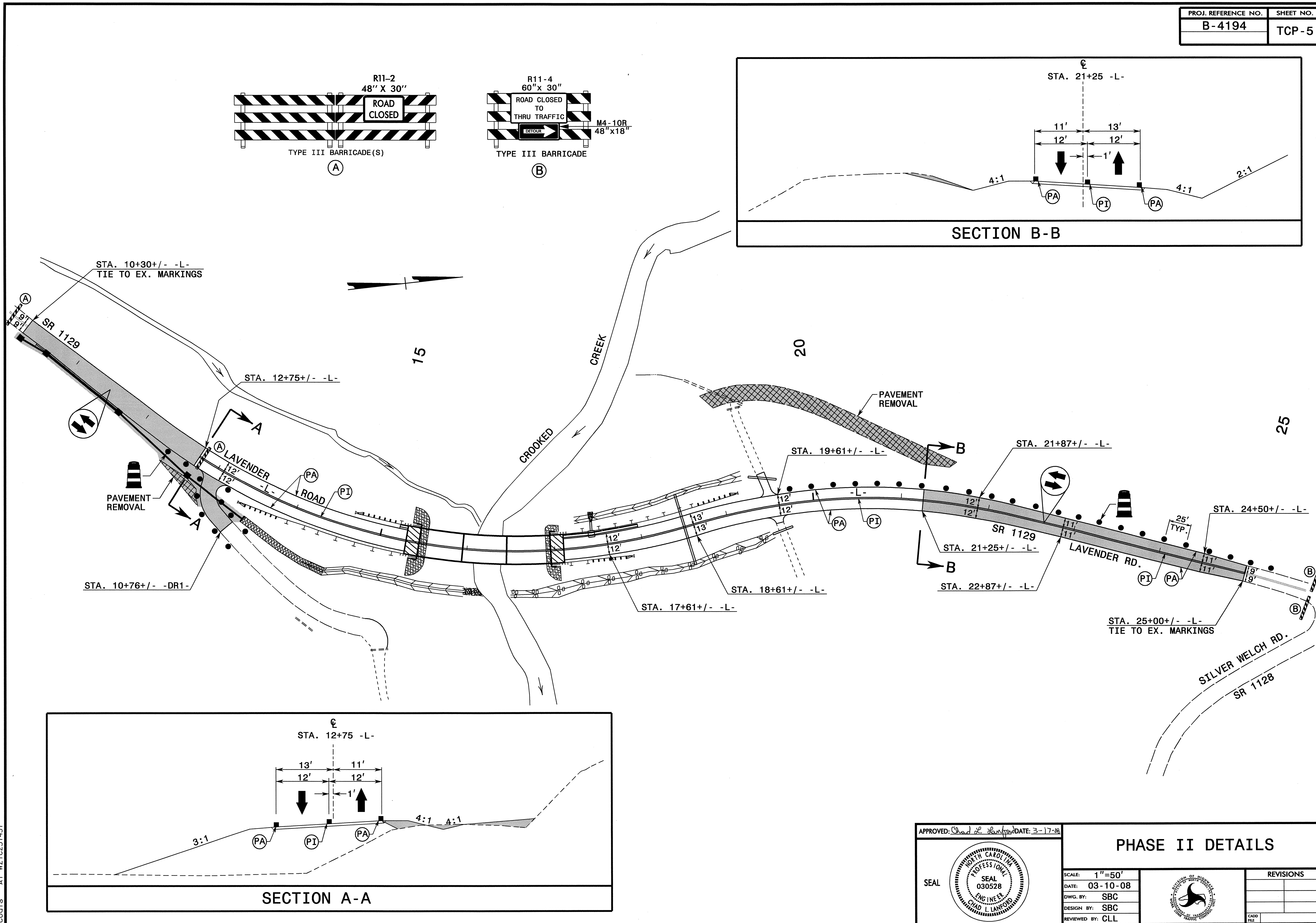
PROJ. REFERENCE NO.
B-4194
SHEET NO.
TCP-5
R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE(S)
A
R11-4
60"x 30"
ROAD CLOSED TO THRU TRAFFIC
DETOUR
M4-10R
48"x18"
TYPE III BARRICADE
B
STA. 21+25 -L-
11'
13'
12'
12'
1'
4:1
4:1
2:1
PA
PI
PA
SECTION B-B
STA. 10+30+/- -L-
TIE TO EX. MARKINGS
SR 1129
15
20
25
CROOKED
CREEK
STA. 12+75+/- -L-
A
LAVENDER
-L-
ROAD
PA
PI
PAVEMENT REMOVAL
STA. 10+76+/- -DR1-
PAVEMENT REMOVAL
STA. 19+61+/- -L-
STA. 21+87+/- -L-
STA. 18+61+/- -L-
STA. 17+61+/- -L-
STA. 21+25+/- -L-
STA. 22+87+/- -L-
B
SR 1129
LAVENDER RD.
25'
TYP.
STA. 24+50+/- -L-
STA. 25+00+/- -L-
TIE TO EX. MARKINGS
SILVER WELCH RD.
SR 1128
STA. 12+75 -L-
13'
11'
12'
12'
1'
3:1
4:1
4:1
PA
PI
PA
SECTION A-A
APPROVED: Chad L. Lanford DATE: 3-17-08
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030528 CHAD L. LANFORD
PHASE II DETAILS
SCALE: 1"=50'
DATE: 03-10-08
DWG. BY: SBC
DESIGN BY: SBC
REVIEWED BY: CLL
REVISIONS
CADD FILE

17-MAR-2008 08:02
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