B-4317

TIP PROJECT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4317	TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

WATAUGA 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 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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES

INDEX OF SHEETS

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

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM	QUANTITY BREAKDOWN	TOTAL QUANTITY
		PAVEMENT MARKINGS		
PA	WHITE EDGELINE (2X)	PAINT (4")	605 LF	2,420 LF
PI	YELLOW DOUBLE CENTER (2X)	PAINT (4")	605 LF	2,420 LF
			TOTAL	4,840 LF

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

APPROVED: _____
DATE: _____

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027856 JENNIFER L. PORTANOVA
9/25/07

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

J.S. BOURNE, P.E. — TRAFFIC CONTROL ENGINEER
J. ISHAK, P.E. — TRAFFIC CONTROL PROJECT ENGINEER
J.L. PORTANOVA, P.E. — TRAFFIC CONTROL PROJECT DESIGN ENGINEER
E.K. GROUNDWATER — TRAFFIC CONTROL DESIGN ENGINEER

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PROJ. REFERENCE NO.	SHEET NO.
B-4317	TCP-2

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 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 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.

C) 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.

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

TRAFFIC PATTERN ALTERATIONS

F) NOTIFY THE ENGINEER THIRTY ONE (31) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

G) PROVIDE PERMANENT SIGNING.

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

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

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

TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
PAYNE BRANCH RD. (SR 1541)	PAINT	NONE

M) PLACE TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE. PLACE THE SECOND APPLICATION OF PAINT UPON SUFFICIENT DRYING TIME OF THE FIRST.

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

PHASING NOTES

NOTE: MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

STEP 1: USING RSD 1101.03 SHEET 1 OF 9 AND SHEET TCP-3 , INSTALL DETOUR SIGNS AND PLACE TYPE III BARRICADES TO CLOSE PAYNE BRANCH RD. (SR 1541)TO THRU TRAFFIC AND DETOUR TRAFFIC ONTO PROPOSED DETOUR.

STEP 2: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:

- REMOVE EXISTING STRUCTURE NO. 16 AND CONSTRUCT PROPOSED STRUCTURE. SEE ROADWAY PLANS.
- CONSTRUCT PROPOSED -L- AND THE REALIGNMENTS OF -DRV1-, -DRV2-, -DRV-3 AND -DRV4- UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- PLACE PERMANENT PAVEMENT MARKINGS (PAINT) ON PROPOSED -L- PAYNE BRANCH RD. (SR 1541) AND TIE INTO EXISTING MARKINGS.

STEP 3: REMOVE ALL TRAFFIC CONTROL DEVICES AND REMOVE ALL DETOUR SIGNING.

- OPEN PAYNE BRANCH RD. (SR 1541) TO TWO-LANE, TWO-WAY TRAFFIC.

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 027856 ENGINEER JENNIFER L. PONTANOVA 9/25/07

GENERAL NOTES AND PHASING

SCALE:	NONE
DATE:	09/07
DWG. BY:	EKG
DESIGN BY:	EKG
REVIEWED BY:	JLP

REVISIONS

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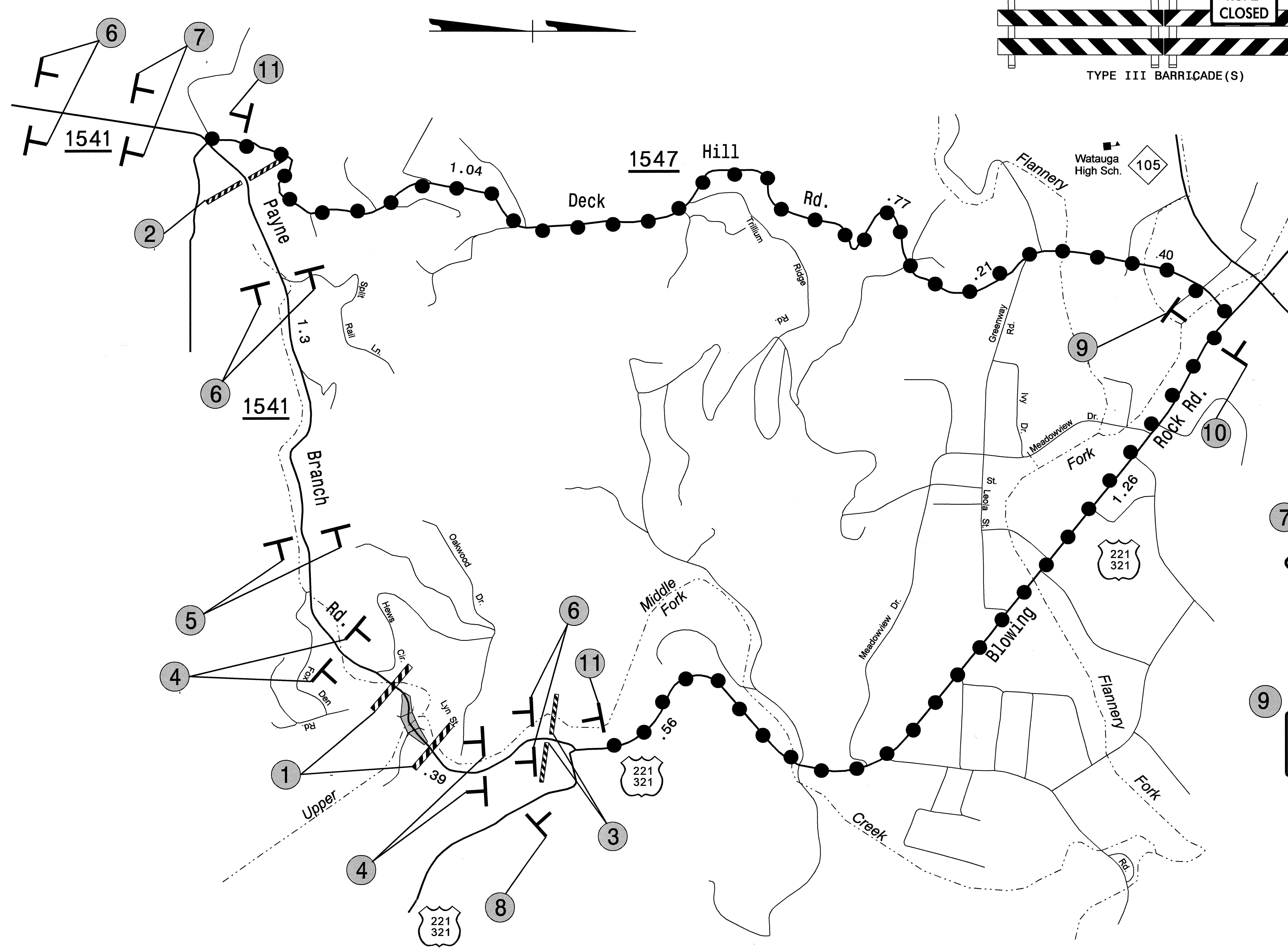
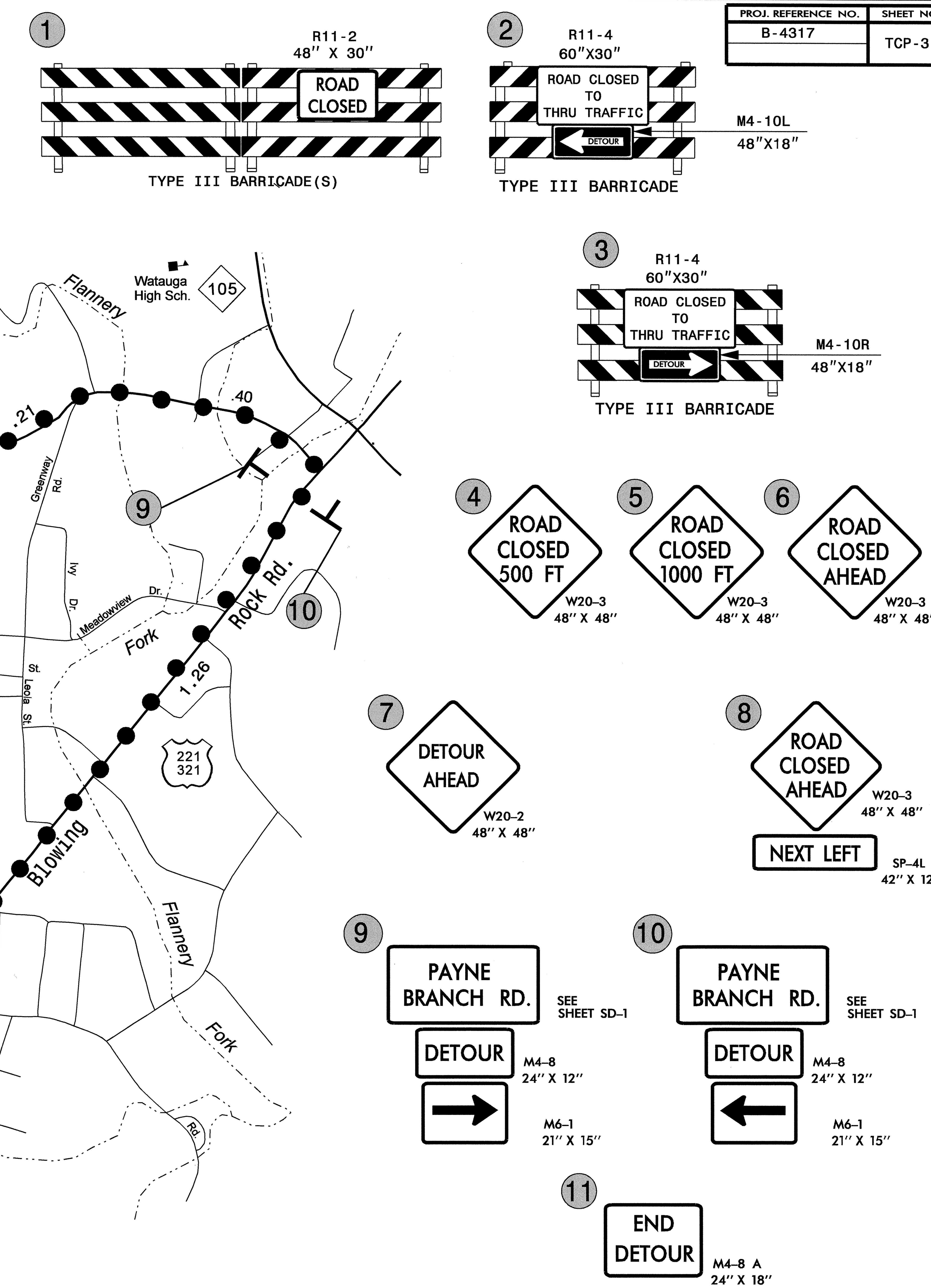
WATAUGA COUNTY

PROJ. REFERENCE NO.	SHEET NO.
B-4317	TCP-3



1541
1547
Deck Hill Rd.
Payne Branch Rd.
Upper Middle Fork Creek
Blowing Rock Rd.
Flannery Fork
221 321
105
Watauga High Sch.
1.04
.77
.21
.40
1.3
1.26
.56
.39
Split Rail Ln
Trillium Ridge Rd.
Greenway Rd.
Ivy Dr.
Meadowview Dr.
Lecia St.
Oakwood Dr.
Hews Cir.
Fox Den Rd.
Lyn St.



R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE(S)
R11-4
60"X30"
ROAD CLOSED TO THRU TRAFFIC
DETOUR
M4-10L
48"X18"
TYPE III BARRICADE
R11-4
60"X30"
ROAD CLOSED TO THRU TRAFFIC
DETOUR
M4-10R
48"X18"
TYPE III BARRICADE
ROAD CLOSED 500 FT
W20-3
48" X 48"
ROAD CLOSED 1000 FT
W20-3
48" X 48"
ROAD CLOSED AHEAD
W20-3
48" X 48"
DETOUR AHEAD
W20-2
48" X 48"
ROAD CLOSED AHEAD
W20-3
48" X 48"
NEXT LEFT
SP-4L
42" X 12"
PAYNE BRANCH RD.
SEE SHEET SD-1
DETOUR
M4-8
24" X 12"
M6-1
21" X 15"
PAYNE BRANCH RD.
SEE SHEET SD-1
DETOUR
M4-8
24" X 12"
M6-1
21" X 15"
END DETOUR
M4-8 A
24" X 18"

OFF-SITE DETOUR ROUTE ●——●——●

SEE SHEET SD-1 FOR DETOUR SIGN DESIGN.

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APPROVED:________________ DATE:________

9/25/07

DETOUR ROUTE AND BARRICADE PLACEMENT

SCALE:	NONE
DATE:	09/07
DWG. BY:	EKG
DESIGN BY:	EKG
REVIEWED BY:	JLP

REVISIONS

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