

STATE OF NORTH CAROLINA

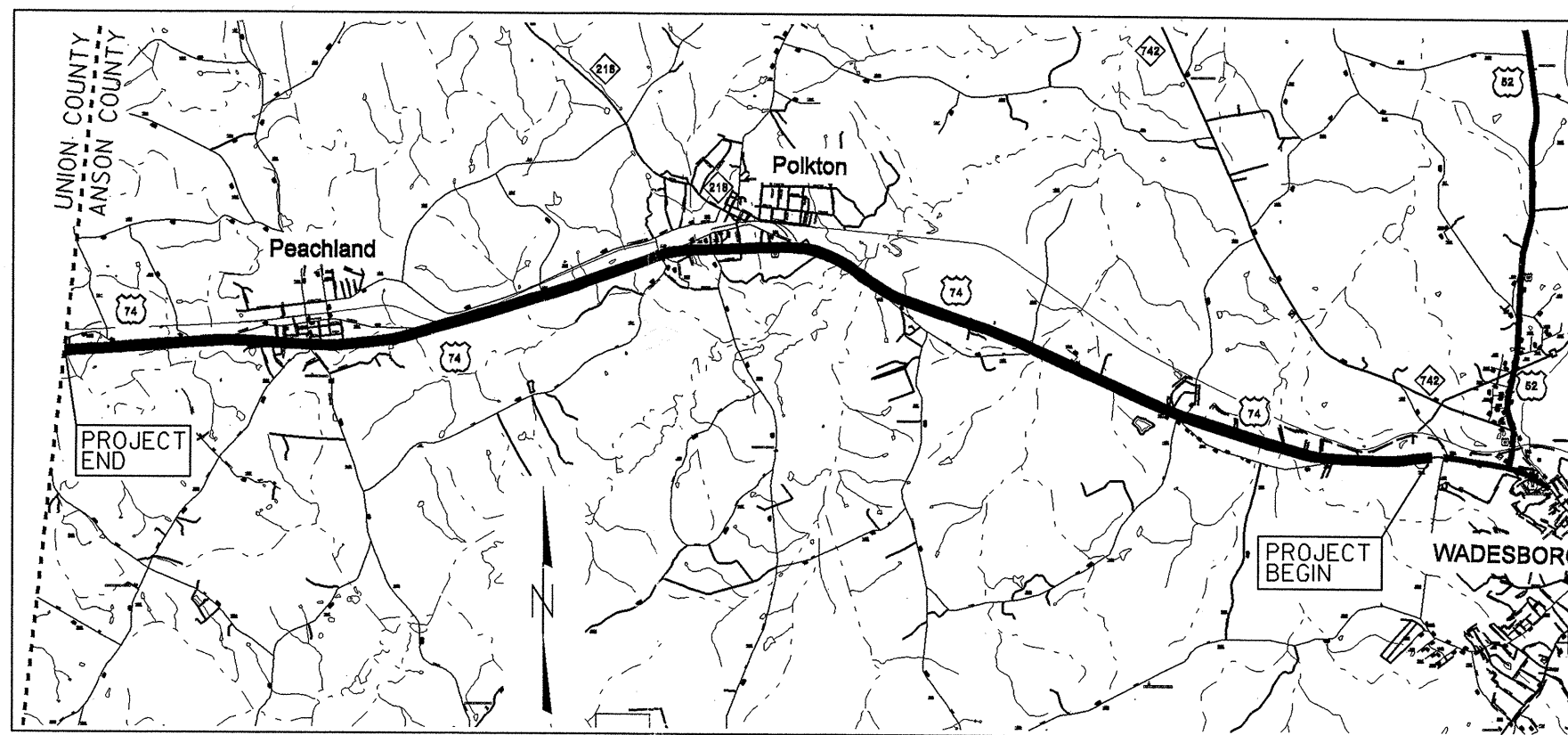
DIVISION OF HIGHWAYS

**ANSON COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5192	1	
STATE PROGRAM	F.A. PROGRAM	DESCRIPTION	
45272.3.STI	STM-0074(108)	CONST	

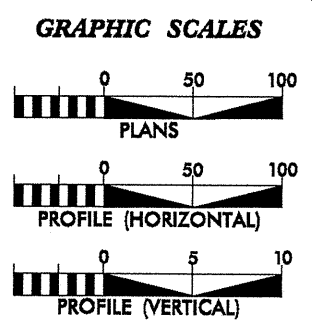
**LOCATION:** WBL US74 FROM 1500' WEST OF SR-1423 (KITTY BENNETT RD) TO THE UNION COUNTY LINE

**TYPE OF WORK:** WIDENING, RESURFACING, MILLING, & SHOULDER RECONSTRUCTION



VICINITY MAP NOT TO SCALE

**PROJECT: R-5192**



**DESIGN DATA**

ADT	=	
ADT	=	
DHV	=	%
D	=	%
T	=	%
V	=	MPH

**PROJECT LENGTH**

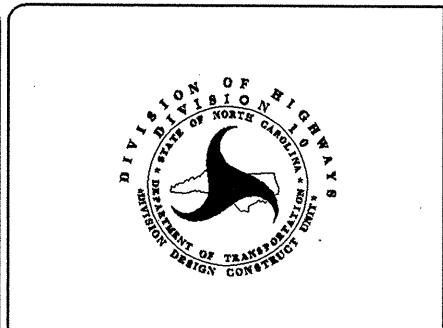
LENGTH OF ROADWAY PROJECT R-5192 = 10.8 MILES

Prepared in the Office of,  
**DIVISION OF HIGHWAYS**  
 DIVISION TEN  
 DIVISION DESIGN / CONSTRUCT UNIT

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2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: -NA-	RANDY BOWERS PROJECT ENGINEER
LETTING DATE: October 20, 2009	TERRY BURLESON PROJECT DESIGN ENGINEER



**DIVISION OF HIGHWAYS**  
 STATE OF NORTH CAROLINA

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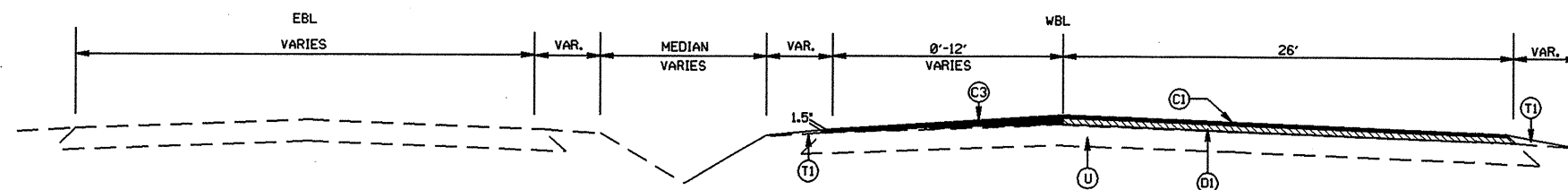
F.E.  
 STATE HIGHWAY ENGINEER - DESIGN  
 DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

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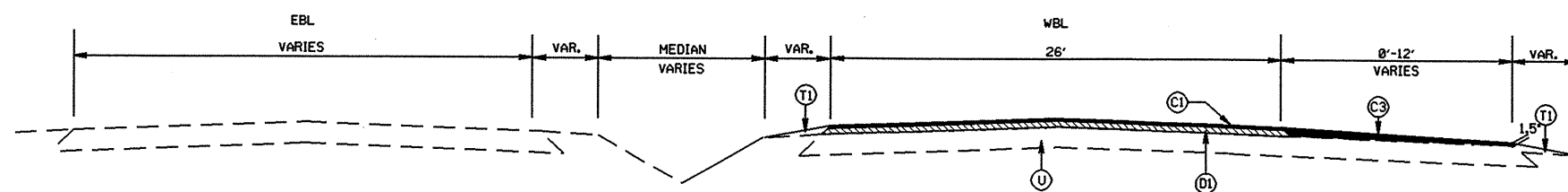
APPROVED FOR  
 DIVISION ADMINISTRATOR

DATE

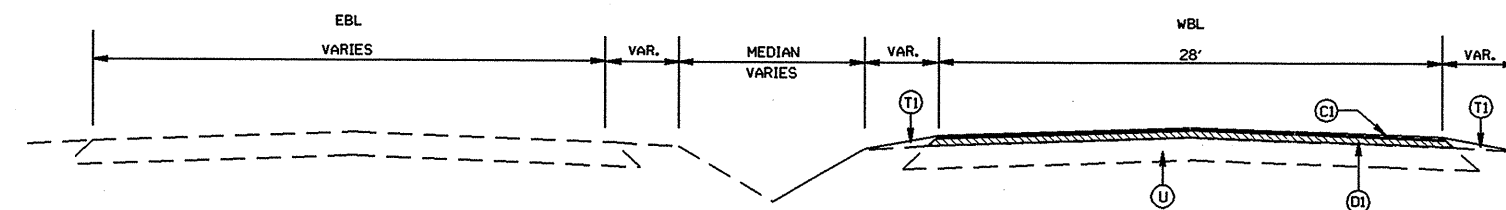
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5192	2	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 3  
FOR LEFT TURNLANES



TYPICAL SECTION NO. 2  
FOR RIGHT TURNLANES



TYPICAL SECTION NO. 1  
STA. 0+00 TO 31+00 -L-  
STA. 55+50 TO 100+40 -L-

PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 265 LBS. PER SQ. YD.
E1	* PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 912 LBS. PER SQ. YD. IN ONE LAYER.
T1	SHOULDER RECONSTRUCTION
T2	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT.
V1	PROFILE MILLING BITUMINOUS PAVEMENT, 0" TO 2" IN DEPTH.

\* DESIGN EXCEPTION GRANTED BY PAVEMENT MANAGEMENT UNIT

NOTES: NO CONSTRUCTION IS NECESSARY AT BROWN CREEK FROM THE PAVEMENT JOINT AT STA 236+20 TO THE PAVEMENT JOINT AT STA 278+70.

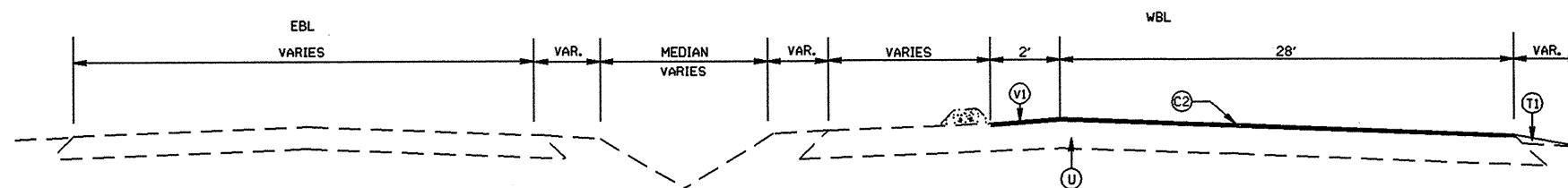
MILL 0" TO 4" OF THE EXISTING PAVEMENT APPROXIMATELY 200' BEFORE & AFTER THE CONCRETE BRIDGE FOR LANES CREEK, AT THE OVERPASS FOR SR 1240, AT THE PAVEMENT JOINT BEFORE AND AFTER BROWNS CREEK AND AT THE BEGINNING AND ENDING OF THE PROJECT TO PROVIDE A SMOOTH TIE IN.

NO ADDITIONAL ASPHALT SHALL BE PLACED ACROSS THE EXISTING BRIDGE FOR GOULDS CREEK (STA 54+50-55+50). THE CONTRACTOR SHALL MILL 2" OF THE EXISTING ASPHALT ACROSS THE BRIDGE AND MILL 0" TO 2" APPROX. 200' ON THE EAST SIDE TO TRANSITION FROM TYPICAL \*7 TO TYPICAL \*8 AND 0" TO 4" ON THE WEST SIDE TO TRANSITION FROM TYPICAL \*7 TO TYPICAL \*1.

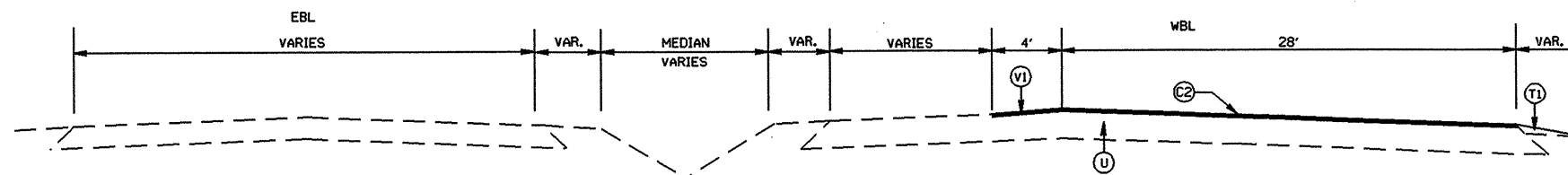
WBL OF US 74 FROM THE PAVEMENT JOINT  
1500' WEST OF SR 1423 (KITTY BENNETT RD)  
TO THE UNION COUNTY LINE

SCALE	-NA-		REVISIONS
DATE	7-09		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

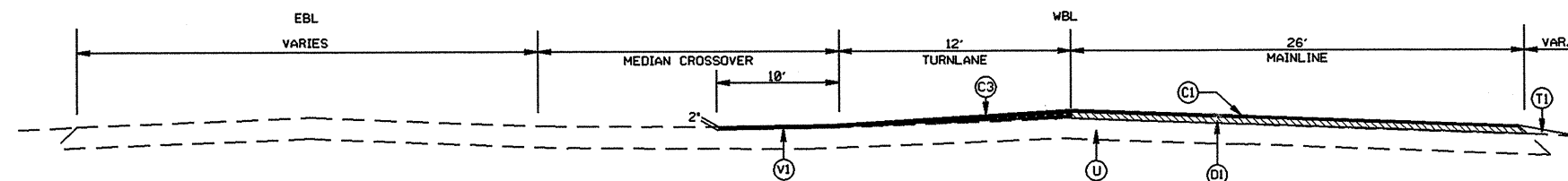
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5192	2A	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 6  
STA. 34+00 TO 35+36 -L-



TYPICAL SECTION NO. 5  
STA. 31+00 TO 34+00 -L-  
STA. 37+20 TO 41+20 -L-



TYPICAL SECTION NO. 4  
FOR MEDIAN CROSSOVERS

PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5C, AT AN AVERAGE RATE OF 188 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	* PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 912 LBS. PER SQ. YD. IN ONE LAYER.
T1	SHOULDER RECONSTRUCTION
T2	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT.
V1	PROFILE MILLING BITUMINOUS PAVEMENT, 0" TO 2" IN DEPTH.

\* DESIGN EXCEPTION GRANTED BY PAVEMENT MANAGEMENT UNIT

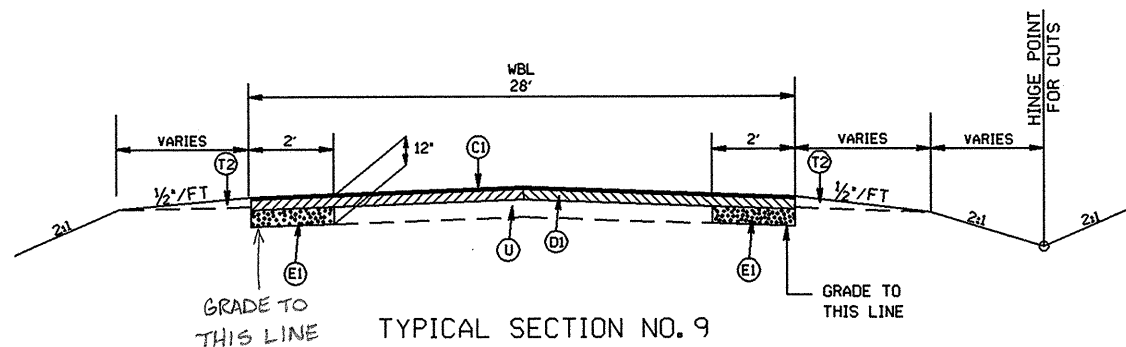
WBL OF US 74 FROM THE PAVEMENT JOINT  
1500 WEST OF SR 1423 (KITTY BENNETT RD)  
TO THE UNION COUNTY LINE

SCALE	-NA-
DATE	7-09
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB



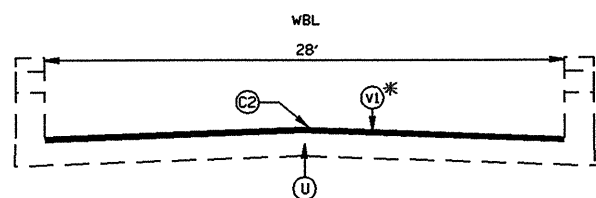
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5192	2B	
F.A. PROJECT NO.			



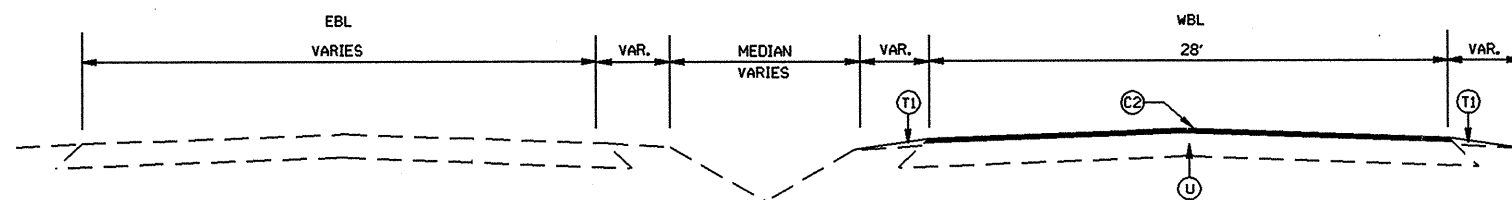
TYPICAL SECTION NO. 9

-L-  
 STA. 100+40 TO 175+10  
 STA. 278+70 TO 389+55  
 STA. 401+70 TO 610+15



TYPICAL SECTION NO. 8

STA. 52+50 TO 55+50 -L-  
 \* 2" MILLING ON THE BRIDGE PAID FOR AS INCIDENTAL MILLING 54+50 to 55+50  
 0"-2" MILLING AT EAST APPROACH 52+50 to 54+50



TYPICAL SECTION NO. 7

STA. 35+36 TO 37+20 -L-  
 STA. 41+20 TO 52+50 -L-

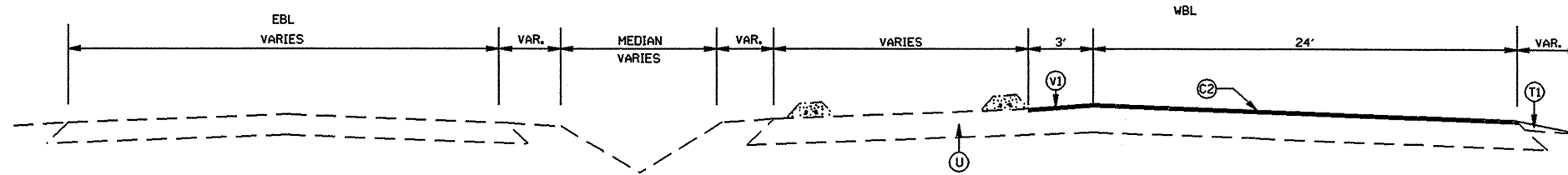
PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 288 LBS. PER SQ. YD.
E1	* PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE 825.0C, AT AN AVERAGE RATE OF 812 LBS. PER SQ. YD. IN ONE LAYER.
T1	SHOULDER RECONSTRUCTION
T2	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT.
V1	PROFILE MILLING BITUMINOUS PAVEMENT, 0" TO 2" IN DEPTH.

\* DESIGN EXCEPTION GRANTED BY PAVEMENT MANAGEMENT UNIT

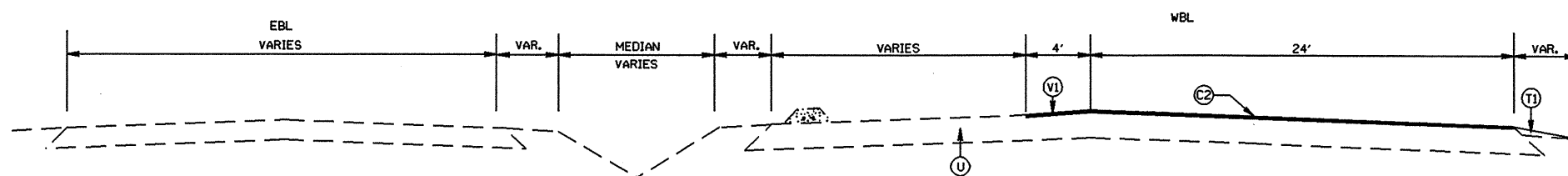
WBL OF US 74 FROM THE PAVEMENT JOINT  
 1500' WEST OF SR 1423 (KITTY BENNETT RD)  
 TO THE UNION COUNTY LINE

SCALE	-NA-		REVISIONS
DATE	7-09		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

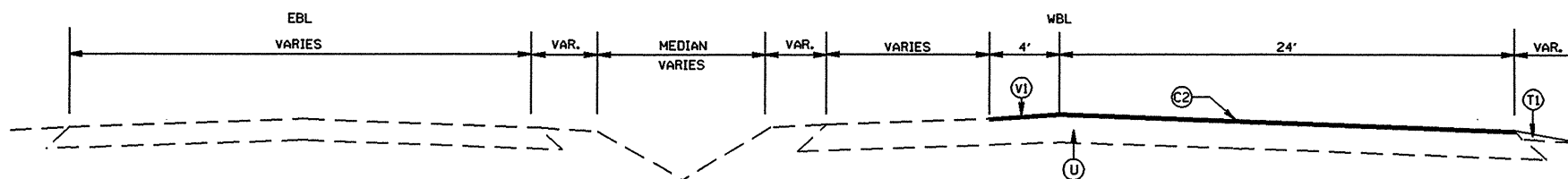
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5192	2C	
F.A. PROJECT NO.			



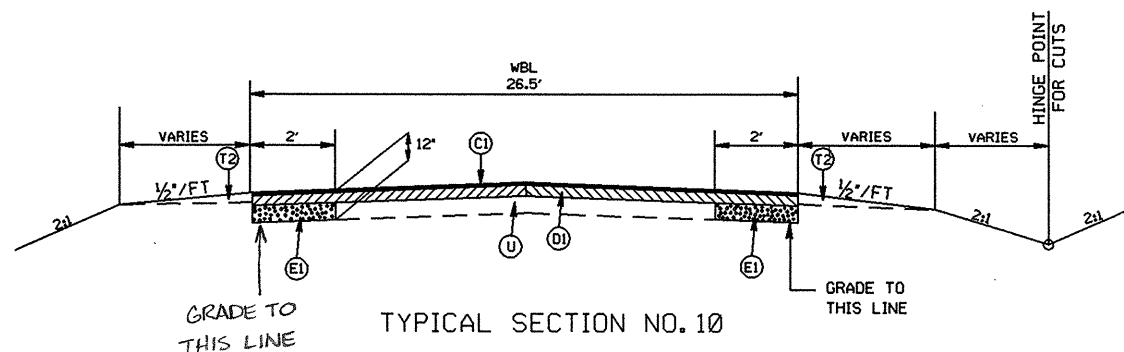
TYPICAL SECTION NO. 13  
 STA. 393+75 TO 395+20 -L-  
 STA. 400+20 TO 401+70 -L-



TYPICAL SECTION NO. 12  
 STA. 392+85 TO 393+75 -L-  
 STA. 398+50 TO 400+20 -L-



TYPICAL SECTION NO. 11  
 STA. 389+55 TO 392+85 -L-  
 STA. 395+20 TO 398+50 -L-



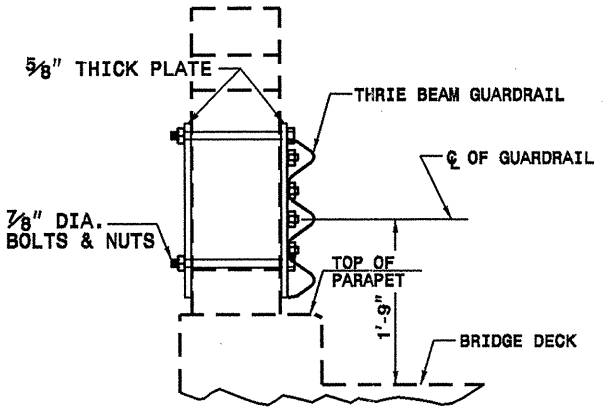
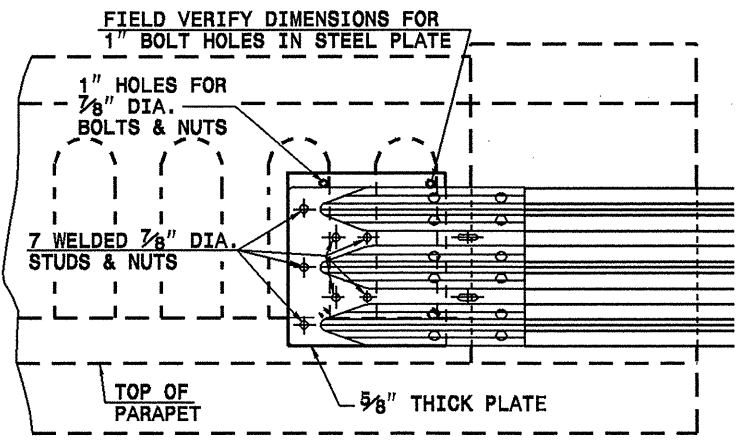
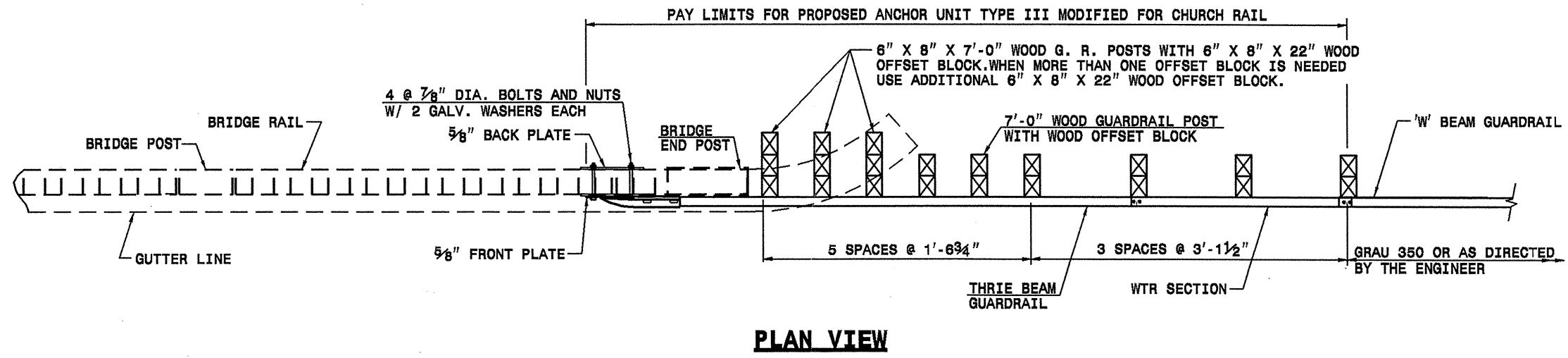
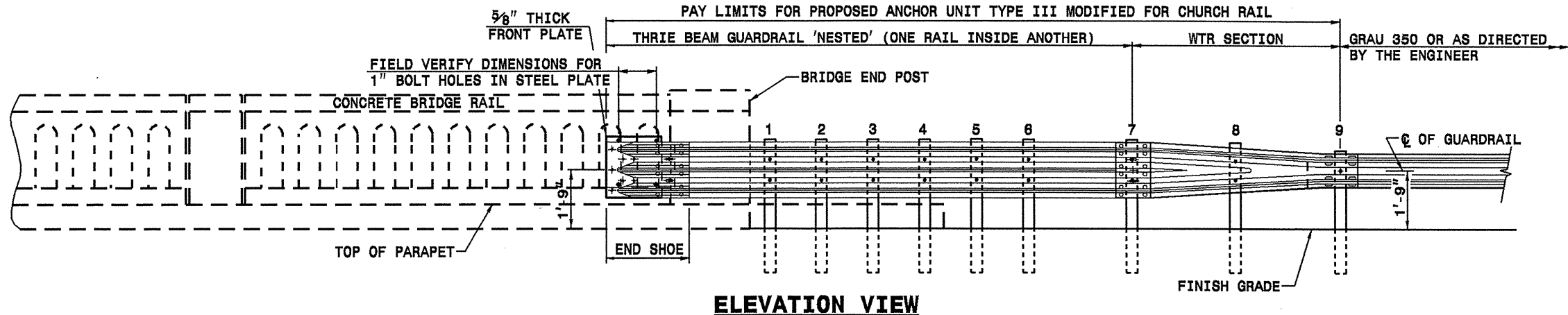
TYPICAL SECTION NO. 10  
 -L-  
 STA. 175+10 TO 236+20

PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	* PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 912 LBS. PER SQ. YD. IN ONE LAYER.
T1	SHOULDER RECONSTRUCTION
T2	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT.
V1	PROFILE MILLING BITUMINOUS PAVEMENT, 0" TO 2" IN DEPTH.

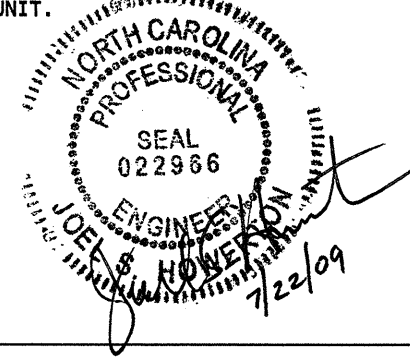
\* DESIGN EXCEPTION GRANTED BY PAVEMENT MANAGEMENT UNIT

WBL OF US 74 FROM THE PAVEMENT JOINT  
 1500' WEST OF SR 1423 (KITTY BENNETT RD)  
 TO THE UNION COUNTY LINE

SCALE	-NA-		REVISIONS
DATE	7-09		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		



- GENERAL NOTES:**
1. USE NUTS, BOLTS, AND WASHERS CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-307 AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.
  2. TAP NUTS FOR THE 7/8" DIA. STUDS AND BOLTS AFTER GALVANIZING SEE A.S.T.M. A-563.
  3. USE PLATES AND TUBES CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-36 AND GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 1078 OF STAND. SPECS.
  4. ADDITIONAL FIELD HOLES MAY BE DRILLED IN STEEL RAIL AS DIRECTED BY THE ENGINEER.
  5. INSTALL FACE OF GUARDRAIL AS NEAR AS POSSIBLE TO PLUMB WITH THE PARAPET FACE AT BRIDGE END POST SPACER TUBE LOCATION BY USING STANDARD OR ALTERED SPACER TUBES OR A COMBINATION THEREOF OR AS DIRECTED BY THE ENGINEER. FOR VERY SMALL PARAPET WIDTHS, GUARDRAIL MAY BE INSTALLED AGAINST BRIDGE RAIL WITHOUT SPACER TUBES.
  6. DO NOT DRILL BRIDGE RAIL IN ORDER TO INSTALL GUARDRAIL ANCHOR UNIT.
  7. ATTACH THREADED STUDS TO PLATE WITH 1/4" WELDS ALL AROUND.
  8. PROVIDE SHOP DRAWINGS OF THE PLATES TO THE ENGINEER FOR APPROVAL BEFORE FABRICATING THE PLATES.
  9. LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
  10. SEE ROADWAY STANDARD DRAWING 882 03 SHEET 4 FOR ADDITIONAL INFORMATION ON THE TYPE III ANCHOR UNIT.



**PROJECT SERVICES UNIT  
STANDARDS AND SPECIAL DESIGN**  
Office 919-250-4128 FAX 919-250-4119

**GUARDRAIL ANCHOR UNIT  
TYPE III MODIFIED  
FOR CHURCH RAIL**

ORIGINAL BY: E.E. WARD DATE: 10-02  
 MODIFIED BY: E.E. WARD DATE: 02-04  
 CHECKED BY: DATE:  
 FILE SPEC.: user\details\stand\bp111.dgn

**GUARDRAIL ATTACHMENT  
TO BRIDGE POST**

22-JUL-2009 10:07:33 AM special\_details\ward\user\details\stand\bp 111 churchrail.dgn  
 5/14/99  
 5/14/99

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5192	3	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER CONSTRUCTION SMI	SHOULDER RECONSTRUCTION SMI	DITCHING LF	4" TO 0" MILLING SY	2" TO 0" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0C TONS	INTERMEDIATE COURSE, I19.0C TONS	SURFACE COURSE, S9.5C TONS	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS
R-5192	Anson	1	WBL US 74	FROM PAVEMENT JOINT 1500' WEST OF SR1423 (KITTY BENNETT RD) TO UNION COUNTY LINE		NO	10.8	28	345	17.24	4.28	800	5,885	15,325	600	9,875	25,200	17,250	1,609	1,035	600
TOTAL FOR MAP NO. 1							10.8		345	17.24	4.28	800	5,885	15,325	600	9,875	25,200	17,250	1,609	1,035	600
TOTAL FOR PROJ NO. R-5192							10.8		345	17.24	4.28	800	5,885	15,325	600	9,875	25,200	17,250	1,609	1,035	600
GRAND TOTAL							10.8		345	17.24	4.28	800	5,885	15,325	600	9,875	25,200	17,250	1,609	1,035	600

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	6" DRIVEWAYS SY	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	STEEL BEAM GUARDRAIL LF	ANCHORAGE FOR GUARDRAIL POST ON BOX CULVERT EA	GUARDRAIL ANCHOR UNITS, TYPE III MODIFIED EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1 EA	GUARDRAIL ANCHOR UNITS, TYPE 350 EA	REMOVE EXISTING GUARDRAIL LF	STEEL BEAM GUARDRAIL W/ 8' POST LF	REMOVE & RESET EXISTING ANCHOR UNITS, TYPE 350 EA	TEMPORARY SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	MATTING (EROSION CONTROL) SY	SEED & MULCHING AC
R-5192	Anson	1	WBL US 74	FROM PAVEMENT JOINT 1500' WEST OF SR1423 (KITTY BENNETT RD) TO UNION COUNTY LINE	96	1	1	1,230	8	4	12	6	6,914	6,250	7	1,000	150	70	1,800	10.5
TOTAL FOR MAP NO. 1					96	1	1	1,230	8	4	12	6	6,914	6,250	7	1,000	150	70	1,800	10.5
TOTAL FOR PROJ NO. R-5192					96	1	1	1,230	8	4	12	6	6,914	6,250	7	1,000	150	70	1,800	10.5
GRAND TOTAL					96	1	1	1,230	8	4	12	6	6,914	6,250	7	1,000	150	70	1,800	10.5

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4400000000-E	4415000000-N	4420000000-N	4430000000-N	4685000000-E				4686000000-E	4710000000-E	4721000000-E	4725000000-E		4810000000-E	4900000000-N
					STATIONARY WORK ZONE SIGN SF	FLASHING ARROW PANELS, TYPE C EA	CHANGEABLE MESSAGE SIGNS EA	DRUMS EA	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG SCHOOL 120M (CHARACTERS) EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" WHITE PAINT LF	CRYSTAL & RED MARKERS EA		
R-5192	Anson	1	WBL US 74	FROM PAVEMENT JOINT 1500' WEST OF SR1423 (KITTY BENNETT RD) TO UNION COUNTY LINE	720	1	1	150	59,875	59,875	19,589	575	6	27	12	20,000	950		
TOTAL FOR MAP NO. 1					720	1	1	150	59,875	59,875	19,589	575	6	27	12	20,000	950		
TOTAL FOR PROJ NO. R-5192					720	1	1	150	59,875	59,875	19,589	575	6	27	12	20,000	950		
GRAND TOTAL					720	1	1	150	59,375	59,875	19,589	575	6	27	12	20,000	950		

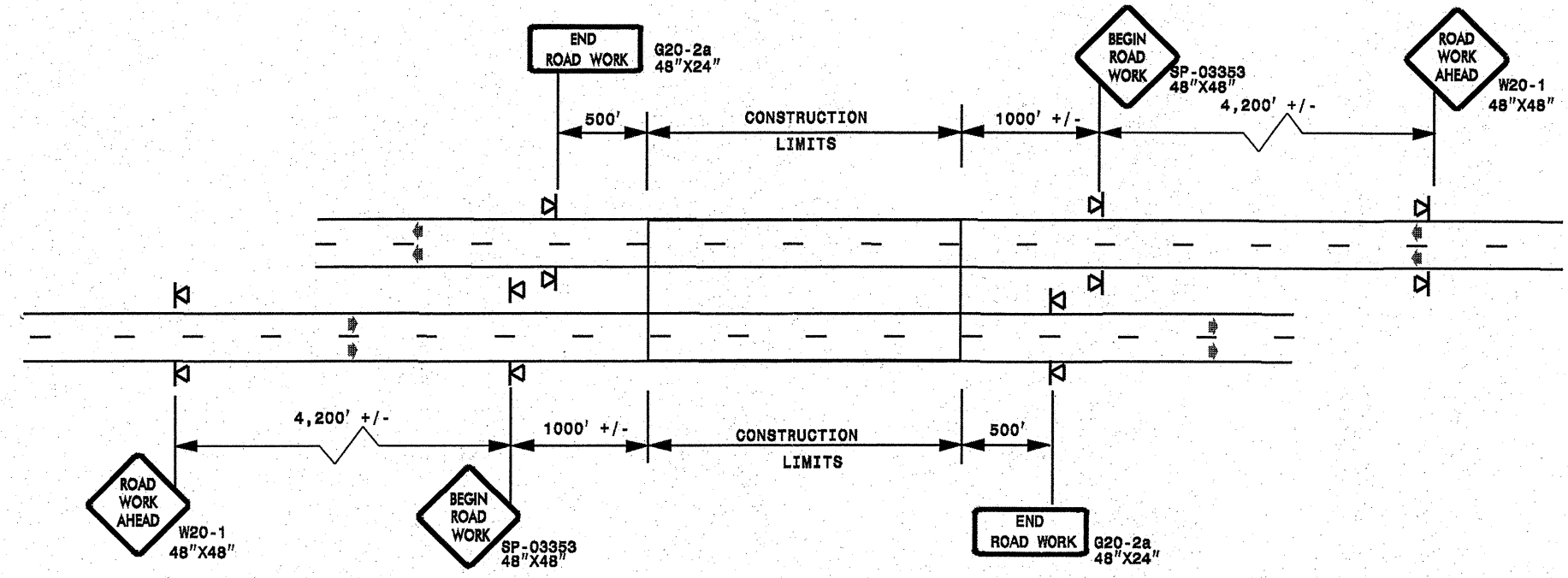
### 2006 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
<b>DIVISION 8 - INCIDENTALS</b>	
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units

ADVANCE WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

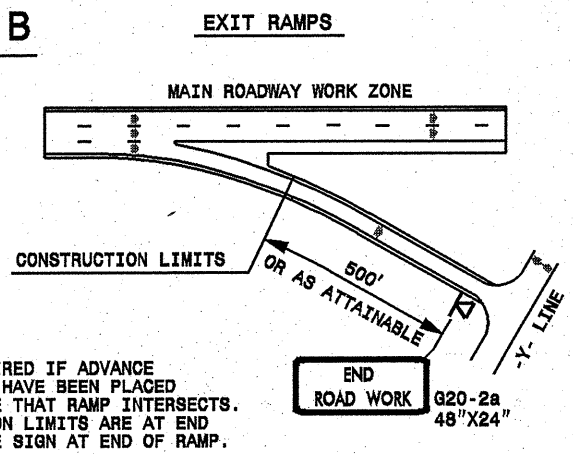
DETAIL A



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

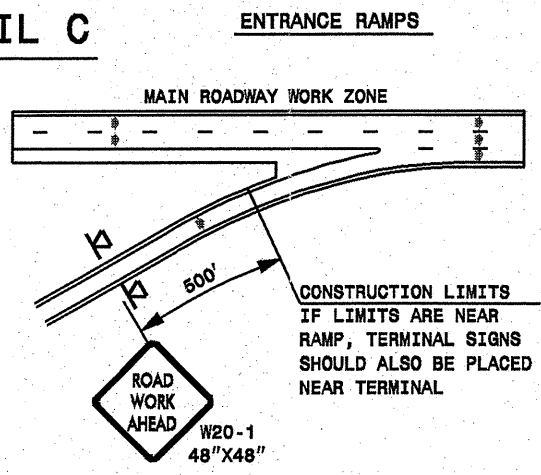
ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)

DETAIL B



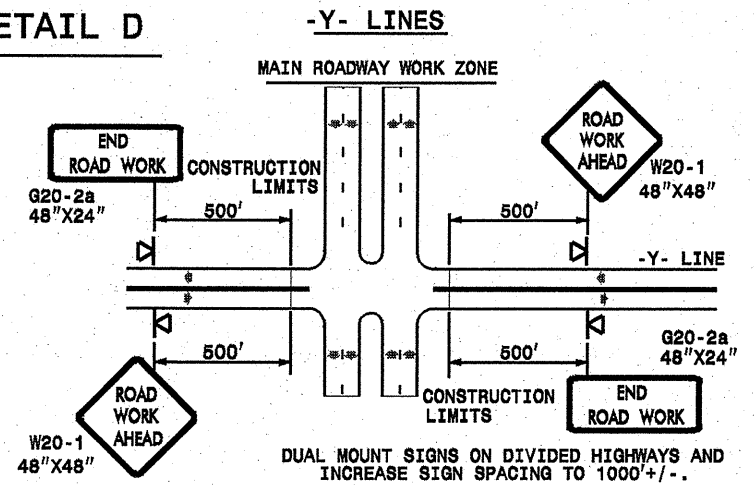
NOTE:  
SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



CONSTRUCTION LIMITS IF LIMITS ARE NEAR RAMP, TERMINAL SIGNS SHOULD ALSO BE PLACED NEAR TERMINAL

DETAIL D



DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 1000' +/-.

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

◀ PORTABLE SIGN

➔ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING  
FOR FREEWAYS  
WORK ZONE WARNING SIGNS  
(SHORT-DURATION LANE CLOSURES)

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR FREEWAYS WORK ZONE WARNING SIGNS	
SEAL			
SCALE: NONE		REVISIONS	
DATE: 7-98		10/01	
DWG. BY:		10-98 03/04	
DESIGN BY:		01/01 11/04	
REVIEWED BY:			

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