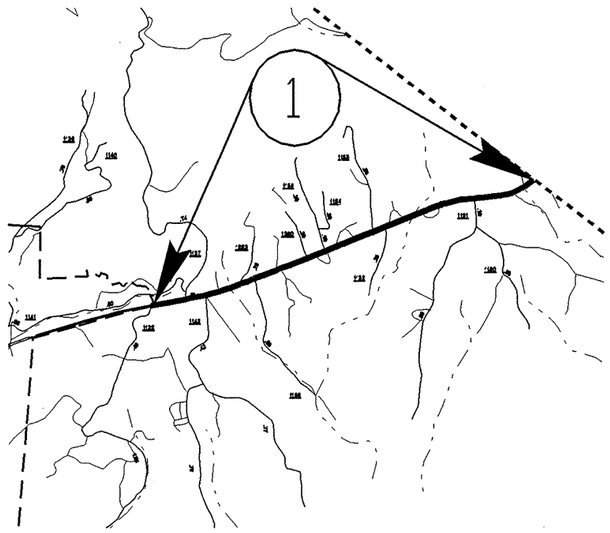
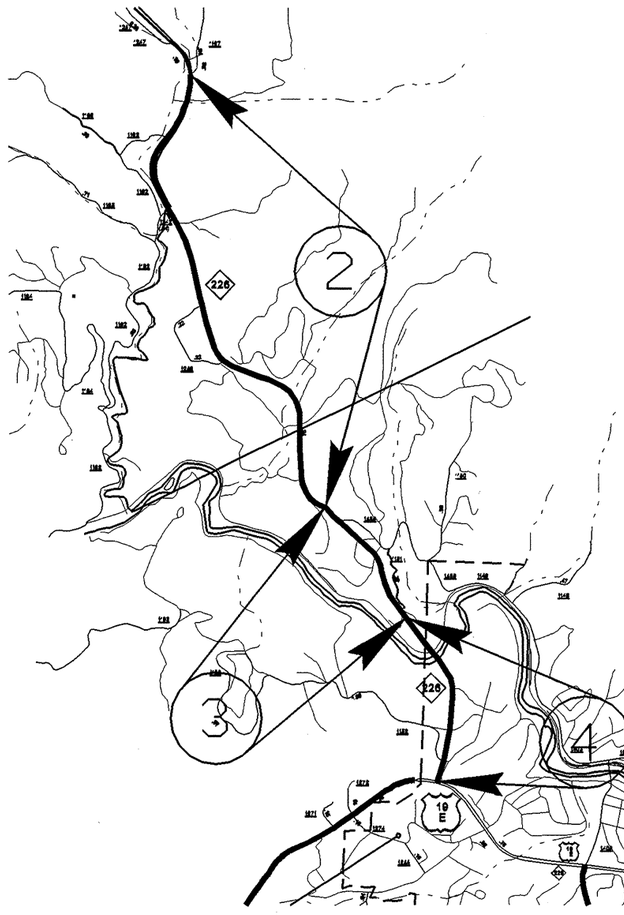
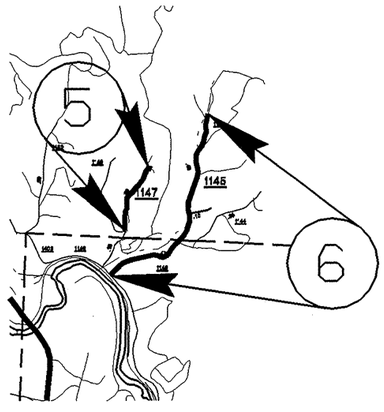
PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10611.5 etc	1	8

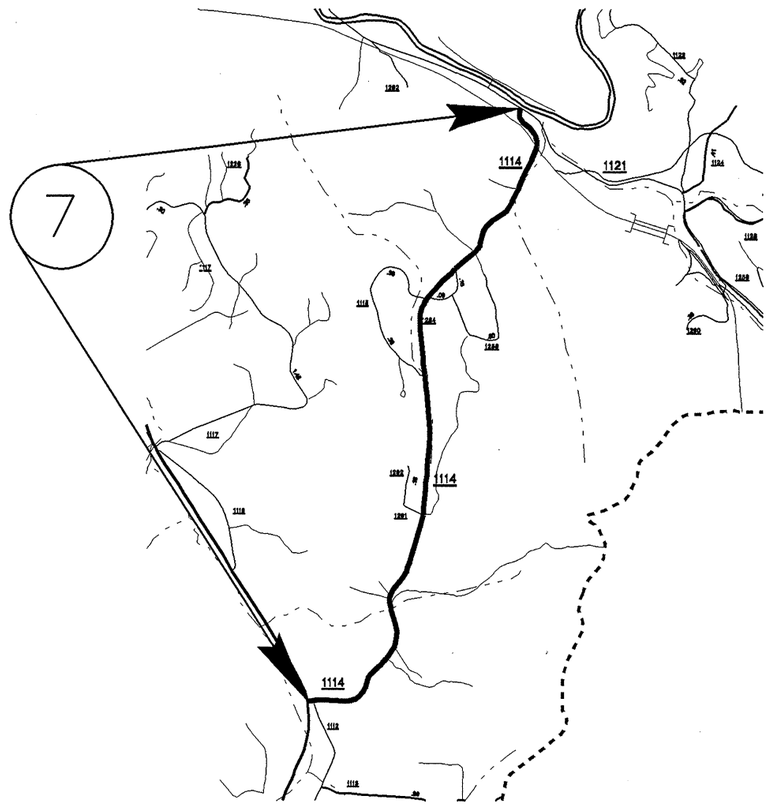


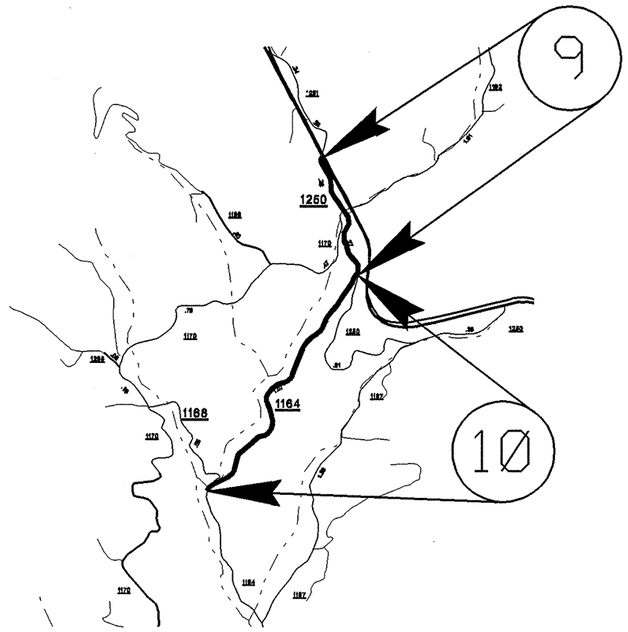


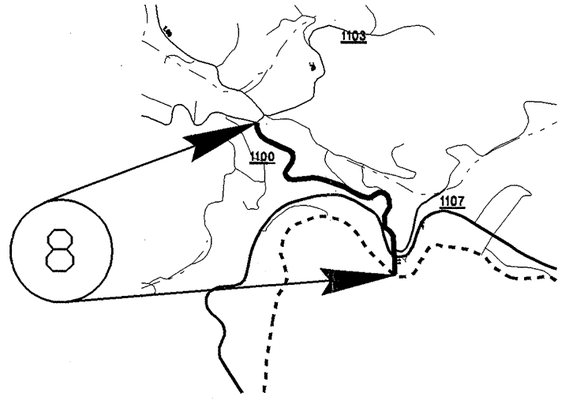


MITCHELL COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10611.5, etc	2	8

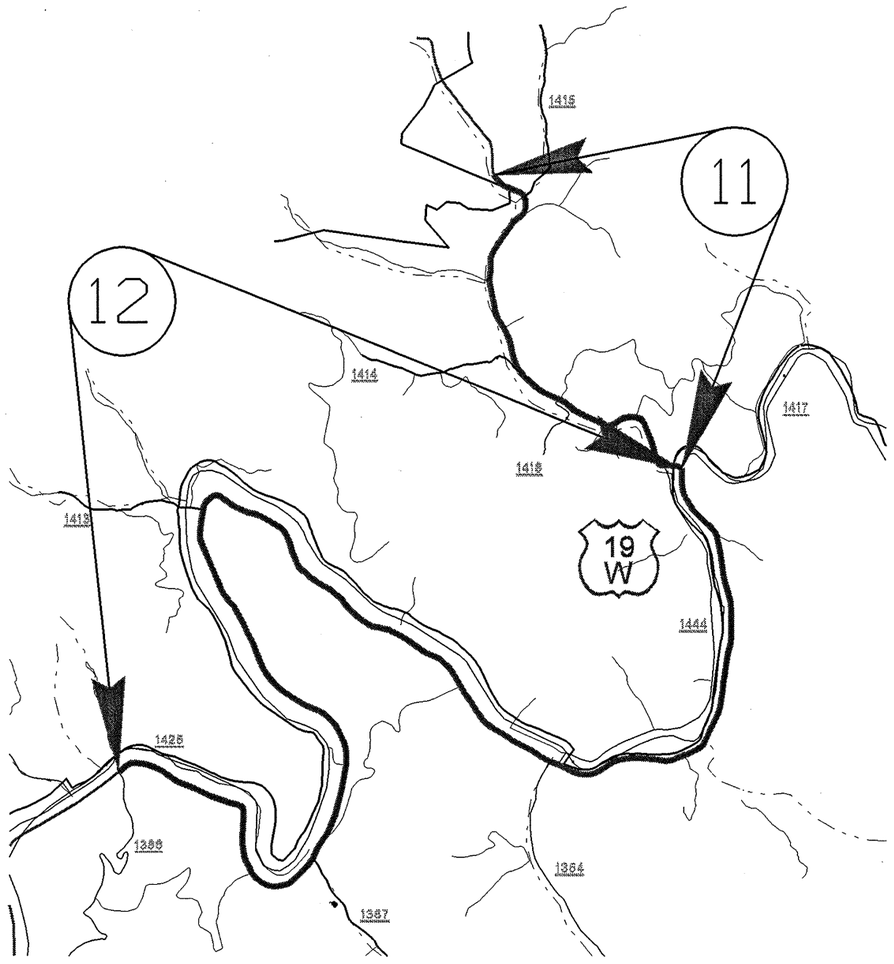


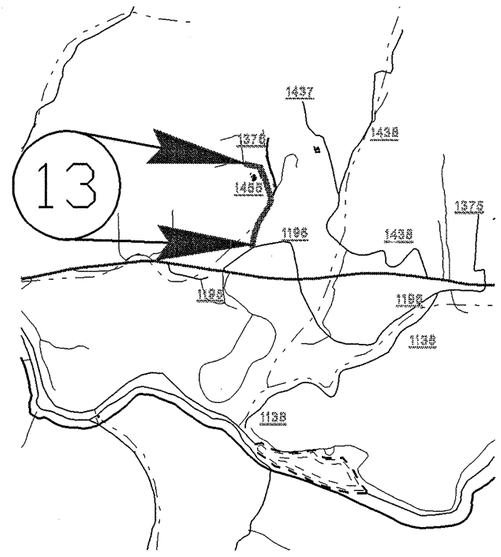


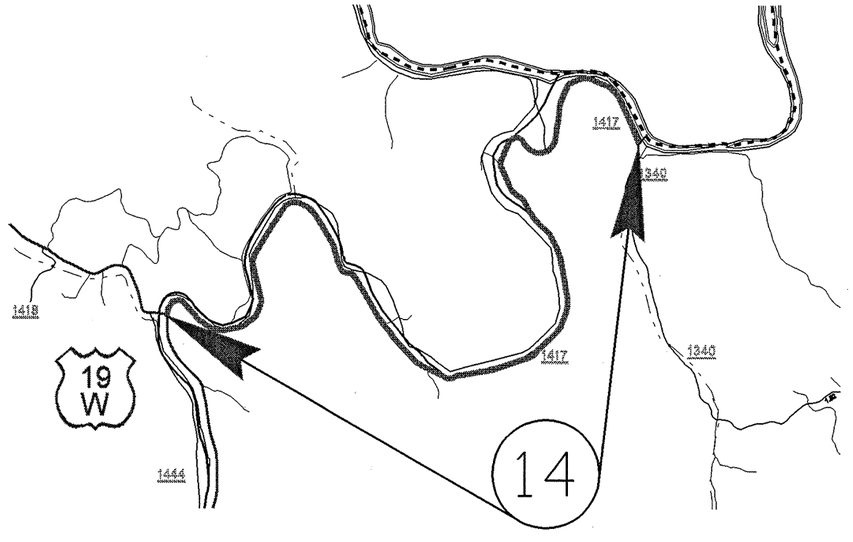


MITCHELL COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10611.5, 13CR.20611.4 13CR.11001.5, 13CR.21001.4	3	8

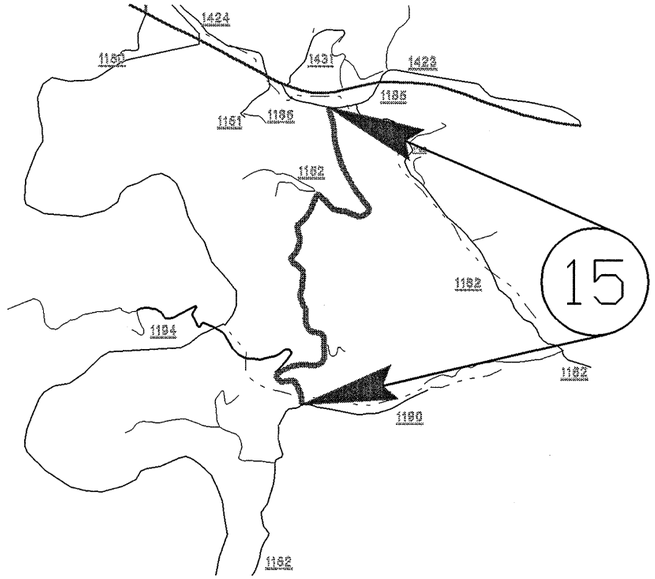


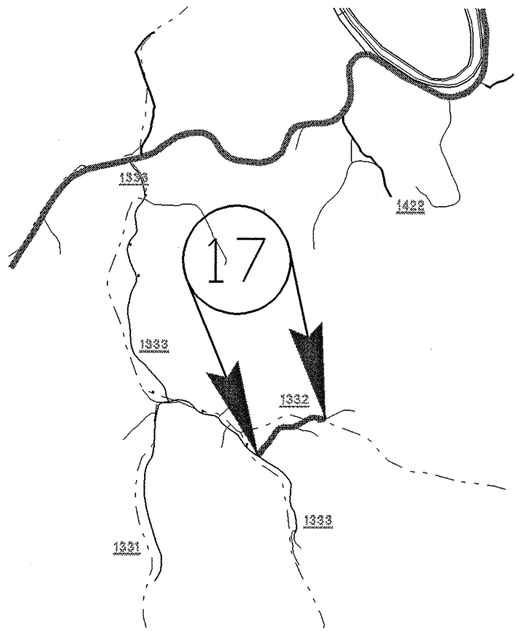


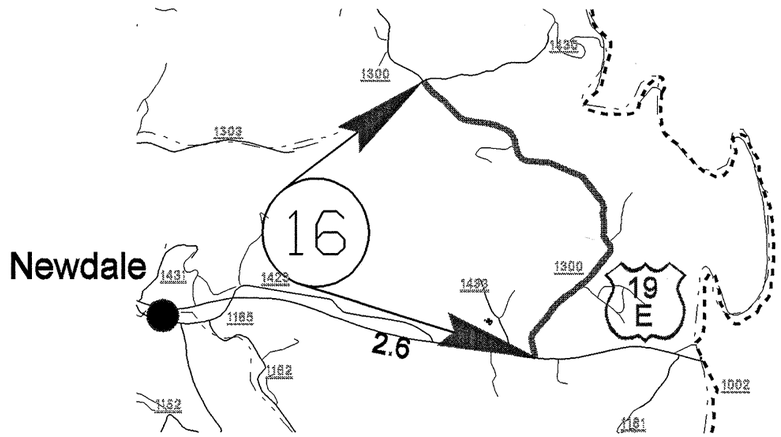


YANCEY COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10611.5, 13CR.20611.4 13CR.11001.5, 13CR.21001.4	4	8







YANCEY COUNTY

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10611.5, 13CR.20611.4 13CR.11001.5, ETC.	5	8

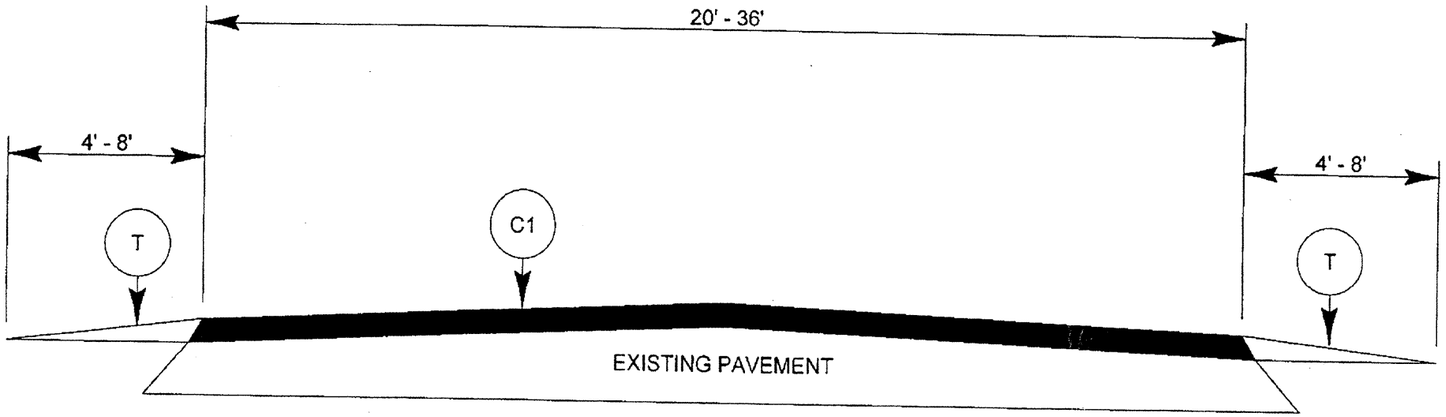
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TON	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	MANHOLES EA
13CR.10611.5	Mitchell	1	US 19E	SPRUCE PINE CL TO AVERY CO LINE	1	1.70	28	85	3.40		2,592		156	100	
		2	NC 226	END 3 LANE TO SR 1197	1	1.68	28	84	3.36		2,561		154	100	
		3	NC 226	END NEW PAV. TO 3 LANE SECT.	1	0.32	24	16	0.64		418		25	50	
		4	NC 226	START 3 LANE TO US 19E	1	0.65	36	33	1.30		1,273		76	50	5
TOTAL FOR PROJ NO. 13CR.10611.5						**4.35**		**218**	**8.70**		**6,844**		**411**	**300**	**5**
13CR.20611.4	Mitchell	5	SR 1147	SR 1149 TO EOM	2	0.31	20	16				332	22	20	
		6	SR 1146	SR 1403 TO EOM	2	0.90	20	45				964	63	100	
		7	SR 1114	SR 1121 TO NC 226	2	3.21	20	161				3,439	224	200	
		8	SR 1100	MCDOWELL CO LINE TO SR 1104	2	1.01	18	51				975	63	100	
		9	SR 1250	NC 226 TO SR 1164	2	0.48	18	24				463	30	25	
		10	SR 1164	SR 1250 TO SR 1168	2	1.00	18	50				965	63	40	
TOTAL FOR PROJ NO. 13CR.20611.4						**6.91**		**347**				**7,138**	**465**	**485**	
13CR.11001.5	Yancey	11	US 19 W	FROM 2006 RESURFACING TO SR 1417	1	1.51	22	76	3.02		1,811		109	85	
		12	US 19W	FROM SR 1417 TO SR 1386	1	5.75	20	288	11.50		6,273		376	48	
TOTAL FOR PROJ NO. 13CR.11001.5						**7.26**		**364**	**14.52**		**8,084**		**485**	**133**	
13CR.21001.4	Yancey	13	SR 1455	FROM SR 1196 TO EOM	2	0.45	19	23				458	30	130	
		14	SR 1417	FROM 19W TO SR 1340	2	3.70	18	185				3,570	232	90	
		15	SR 1152	FROM SR 1185 TO SR 1190	2	1.80	18	90				1,737	113	70	
		16	SR 1300	FROM US 19E TO SR 1430	3	1.50	19	75		752	1,555		126	50	
		17	SR 1332	FROM SR 1333 TO EOM	4	0.25	18	13		226		241	25	10	
TOTAL FOR PROJ NO. 13CR.21001.4						**7.70**		**386**		**978**	**1,555**	**6,006**	**526**	**350**	
GRAND TOTAL						**26.22**		**1,315**	**23.22**	**978**	**16,483**	**13,144**	**1,887**	**1,268**	**5**

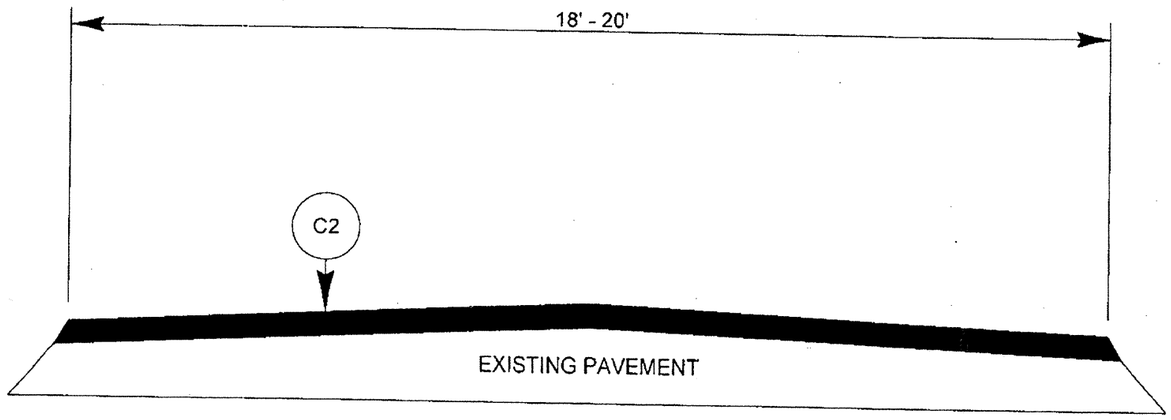
PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10611.5, 13CR.20611.4 13CR.11001.5, ETC.	6	8

THERMOPLASTIC AND PAINT QUANTITIES

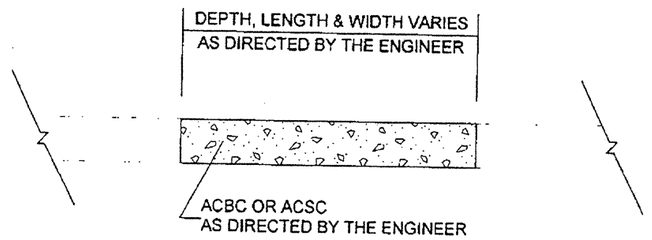
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E 4" X 90 M WHITE THERMO LF	4686000000-E 4" X 120 M YELLOW THERMO LF	4725000000-E THERMO LT ARROW 90 M EA	4810000000-E 4" WHITE PAINT LF	4810000000-E 4" YELLOW PAINT LF
13CR.10611.5	Mitchell	1	US 19E	SPRUCE PINE CL TO AVERY CO LINE	17,952	17,952	6		
		2	NC 226	END 3 LANE TO SR 1197	17,741	17,741			
		3	NC 226	END NEW PAV. TO 3 LANE SECT.	3,379	3,379			
		4	NC 226	START 3 LANE TO US 19E	6,864	7,722	13		
TOTAL FOR PROJ NO. 13CR.10611.5					**45,936**	**46,794**	**19**		
13CR.20611.4	Mitchell	5	SR 1147	SR 1149 TO EOM				6,547	6,547
		6	SR 1146	SR 1403 TO EOM				19,008	19,008
		7	SR 1114	SR 1121 TO NC 226				67,795	67,795
		8	SR 1100	MCDOWELL CO LINE TO SR 1104				21,331	21,331
		9	SR 1250	NC 226 TO SR 1164				10,138	10,138
		10	SR 1164	SR 1250 TO SR 1168				21,120	21,120
TOTAL FOR PROJ NO. 13CR.20611.4								**145,939**	**145,939**
								291,878	
13CR.11001.5	Yancey	11	US 19 W	FROM 2006 RESURFACING TO SR 1417	15,946	15,946			
		12	US 19W	FROM SR 1417 TO SR 1386	60,720	60,720			
TOTAL FOR PROJ NO. 13CR.11001.5					**76,666**	**76,666**			
13CR.21001.4	Yancey	13	SR 1455	FROM SR 1196 TO EOM				9,504	9,504
		14	SR 1417	FROM 19W TO SR 1340				78,144	78,144
		15	SR 1152	FROM SR 1185 TO SR 1190				38,016	38,016
		16	SR 1300	FROM US 19E TO SR 1430				31,680	31,680
		17	SR 1332	FROM SR 1333 TO EOM				5,280	5,280
TOTAL FOR PROJ NO. 13CR.21001.4								**162,624**	**162,624**
								325,248	
GRAND TOTAL					**122,602**	**123,460**	**19**	**617,126**	



TYPICAL SECTION NO. 1

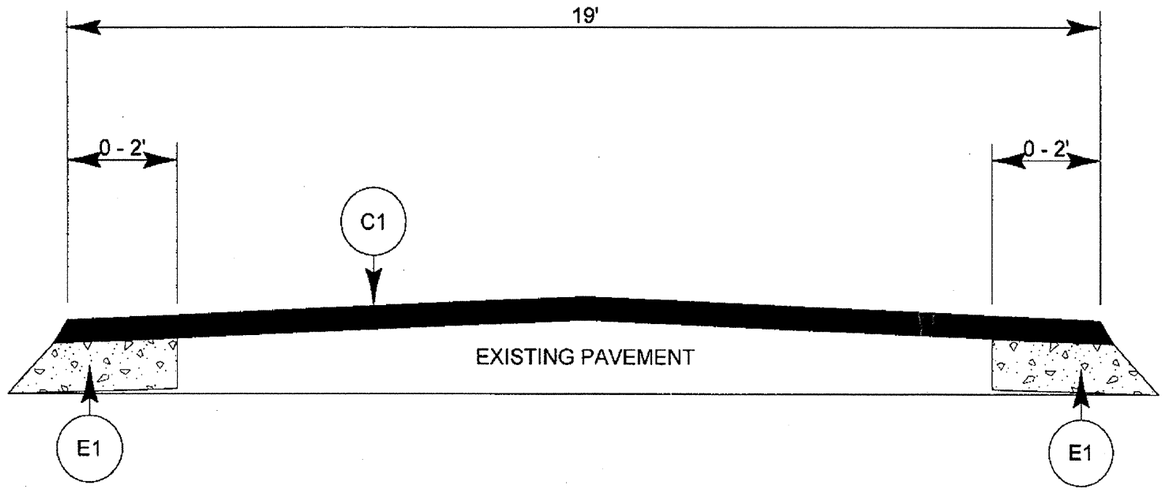


TYPICAL SECTION NO. 2

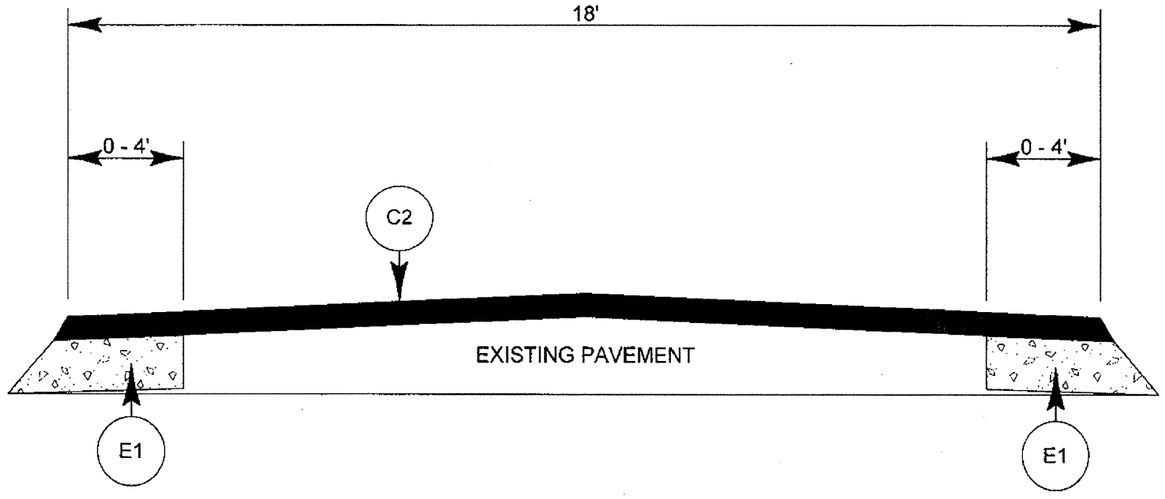


PATCHING EXISTING PAVEMENT

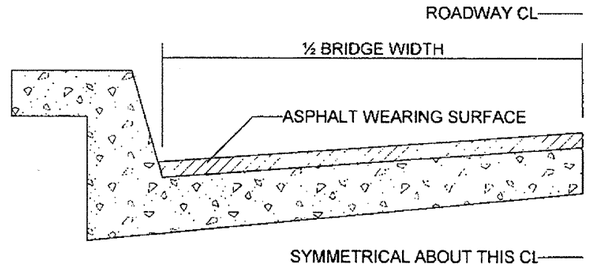
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YARD IN EACH OF TWO LAYERS
T	EARTH MATERIAL



TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 4



BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1½" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

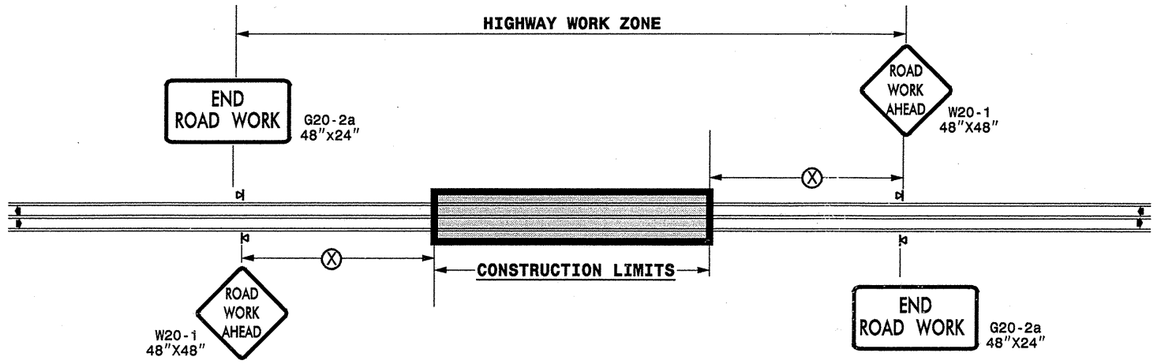
NOTES

ALL UNPAVED ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THI ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABL OF QUANTITIES.
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED.
BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

WBS: 13CR.10611.5, 13CR.20611.4,
13CR.11001.05 & 13CR.21001.4

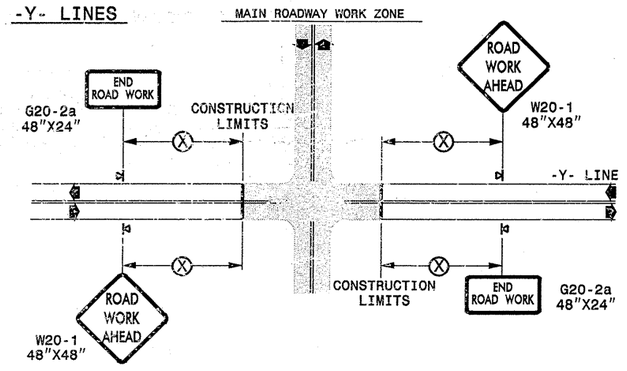
PROJ. REFERENCE NO.	SHEET NO.
See to the Left	TCP-1

TWO-WAY UNDIVIDED ** (L-LINES)



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

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



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.
- 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 URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

PORTABLE SIGN

DIRECTION OF TRAFFIC FLOW

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

DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED:_____ DATE:_____

SEAL

DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
ADVANCED WORK ZONE WARNING SIGNS

SCALE:	NONE
DATE:	
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

REVISIONS	
7-98	10/01
10-98	03/04
01/01	11/04

CADD FILE

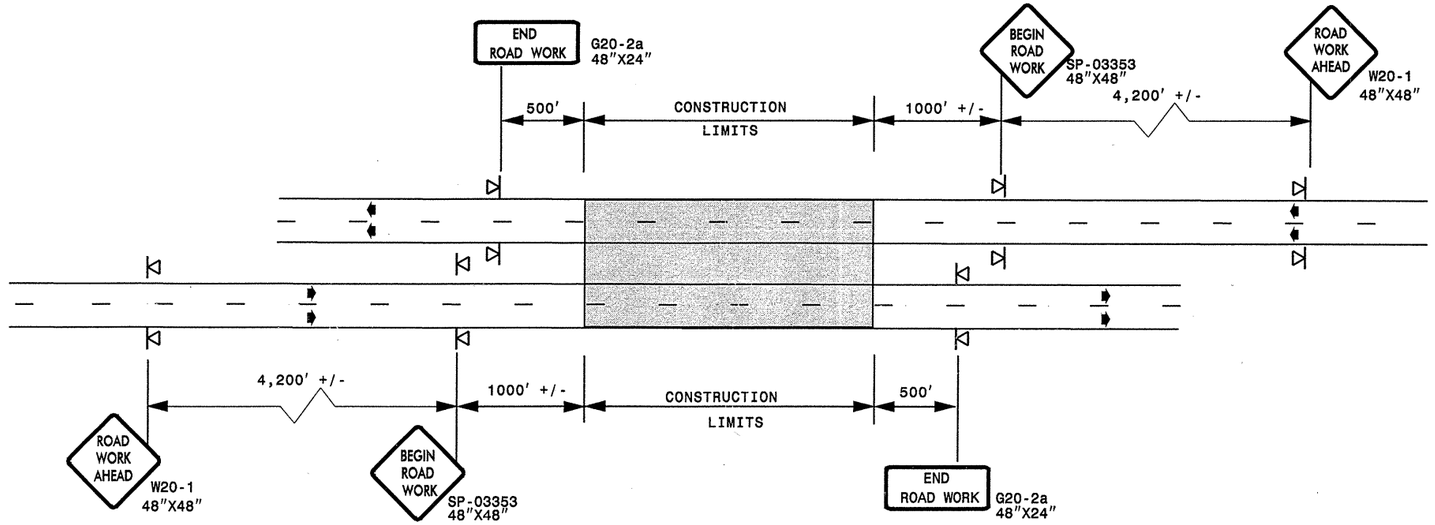
02-OCT-2006 14:23
\\DOT\DFSROOT01\GROUPS-WZTCC\designgroup4\common4\resurfacing\resurfacing2006\dlvl3\l3cr10611l5_2wayundivurbfrwysJuly2006.dgn
dseymore AT WZTC206427

WBS: 13CR.10611.5, 13CR.20611.4, 13CR.11001.05 & 13CR.21001.4

PROJ. REFERENCE NO.	SHEET NO.
See to the Left	TCP-2

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

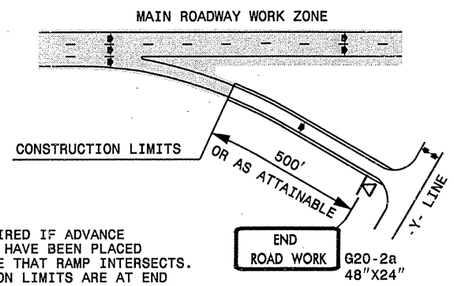
DETAIL A



ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)

DETAIL B

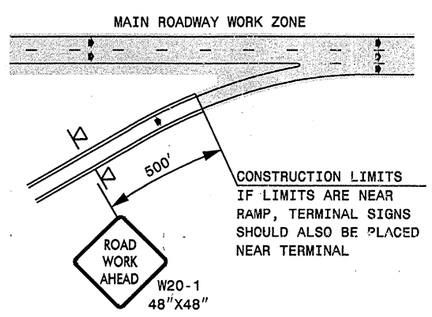
EXIT RAMPS



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.

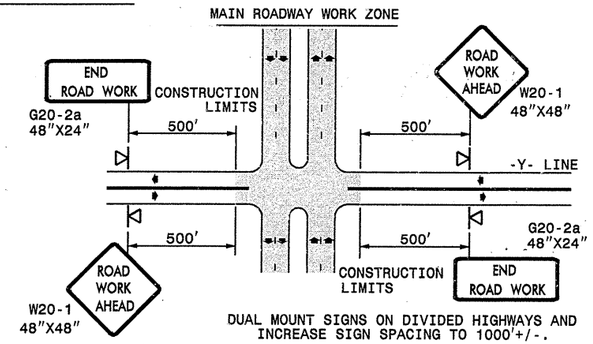
DETAIL C

ENTRANCE RAMPS



DETAIL D

-Y- LINES



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

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.
- 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

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

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

SHEET 1 OF 1

APPROVED:_____ DATE:_____

SEAL

DETAIL DRAWING
FOR FREEWAYS
WORK ZONE WARNING SIGNS

SCALE:	NONE
DATE:	
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

REVISIONS	
7-98	10/01
10-98	03/04
01/01	11/04
CADD FILE	

WBS: 13CR.10611.5, 13CR.20611.4,
13CR.11001.05 & 13CR.21001.4

PROJ. REFERENCE NO.	SHEET NO.
See to the Left	TCP-3

SP 03353

SIGN NUMBER: SP-03353
TYPE: A
QUANTITY: 1
SIGN WIDTH: 4'-0"
HEIGHT: 4'-0"
TOTAL AREA: 16.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0.59"
WIDTH: 0.75"
RADII: 1.38"
NO. Z BARS: N/A
LENGTH: N/A

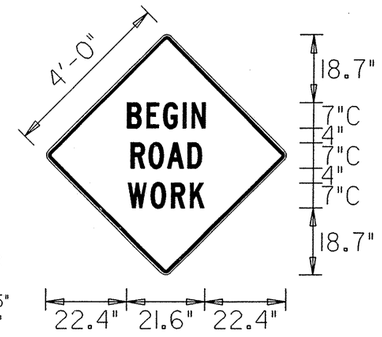
BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L:

DESIGN BY: CL DOWNEY
PROJECT ID: ALL PROJECTS
CHECKED BY: CHECKED
DIV: DIV
STD #: W20-1
DATE: Aug 20,2003

USE NOTES: 2, 4
1. Legend and border shall be direct applied Type VII reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
4. Background shall be Type VII reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.
7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size Text Length
	22.4	B 5.3	E 4.6	G 5.4	I 2.5	N 3.8	22.4	C7 21.6
	23.4	R 5	O 5.2	A 5.6	D 3.8	23.4		C7 19.6
	22.6	W 6.4	O 5.6	R 5.2	K 4	22.6		C7 21.2

Spacing Factor is 1 unless specified otherwise

FILENAME: SPECIMAX

NORTH CAROLINA D.O.T. SIGN DETAIL

GENERAL NOTES FOR SIGN SP-03353 "BEGIN ROAD WORK"

-SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
-WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL FOR FREEWAY WORK ZONE SIGNS

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

DETAIL DRAWING FOR
WORK ZONE SIGNS
BEGIN ROAD WORK

SHEET 1 OF 1

APPROVED: _____ DATE: _____

SEAL

DETAIL DRAWING FOR
ADVANCED WORK ZONE WARNING
SIGN DESIGNS

SCALE:	NONE
DATE:	08/03
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

REVISIONS	
04/04	
11/04	
CADD FILE	

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Designer: A. WELCOME
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