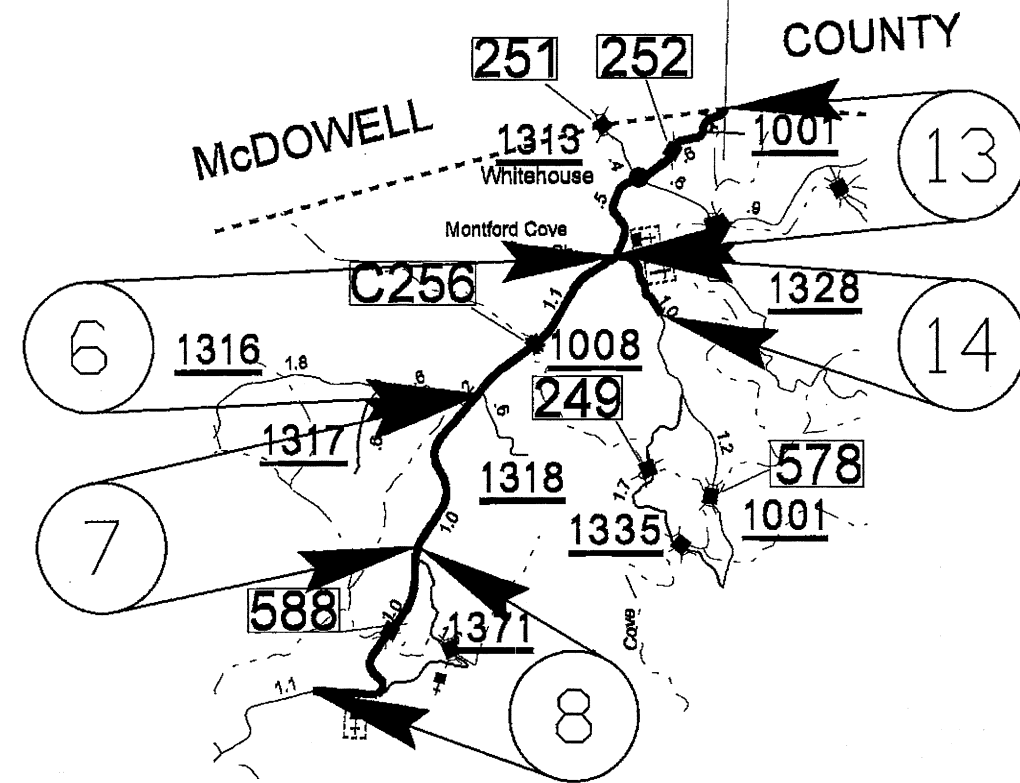
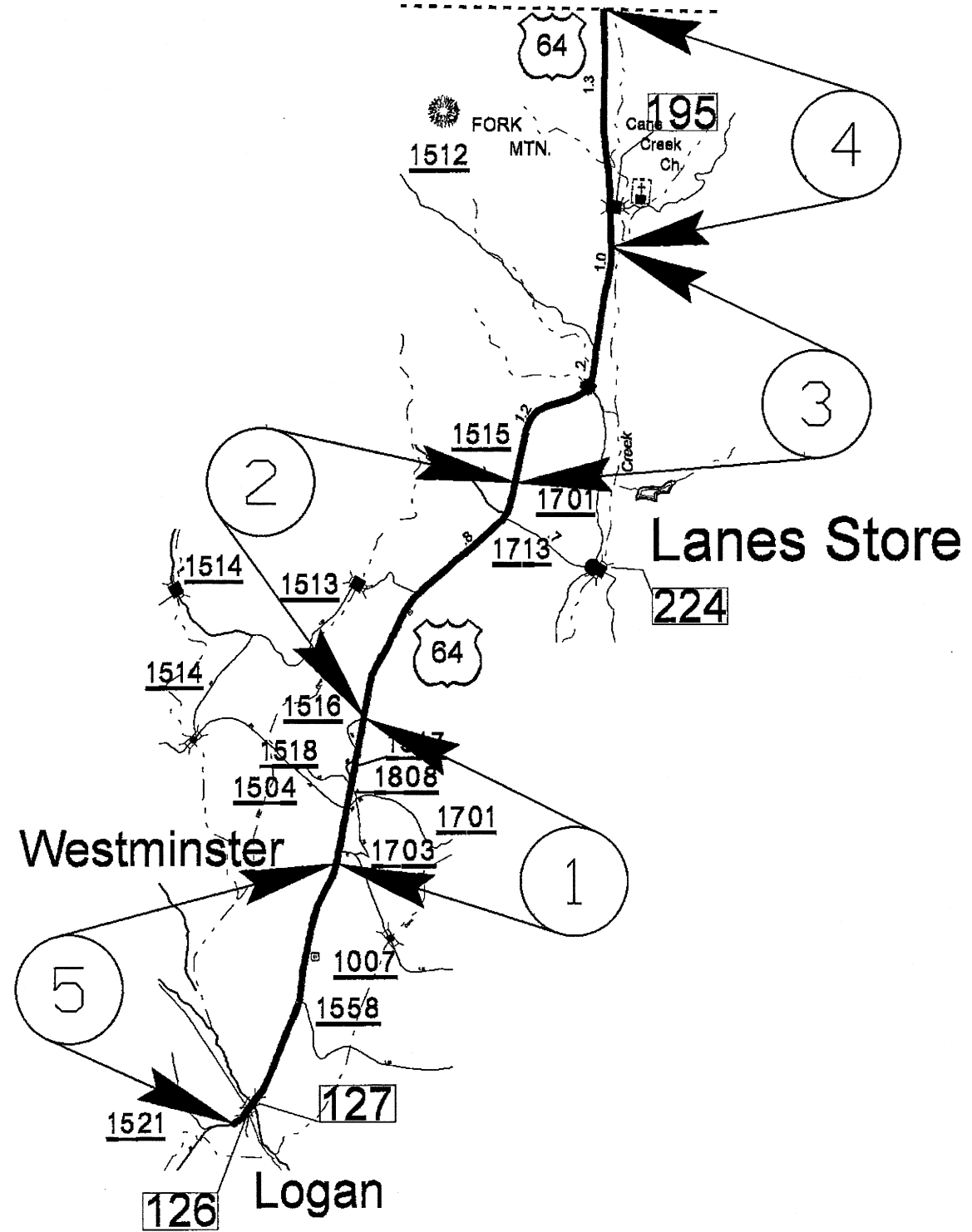


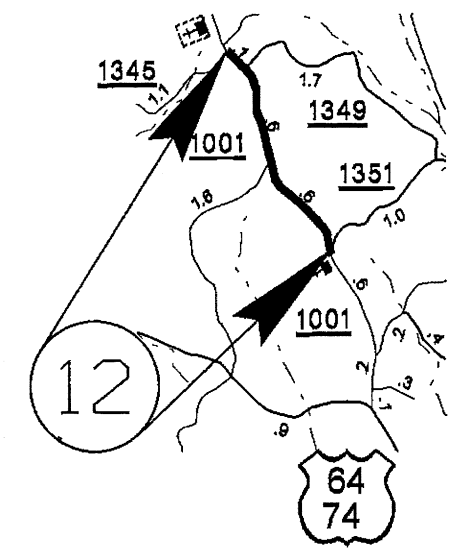
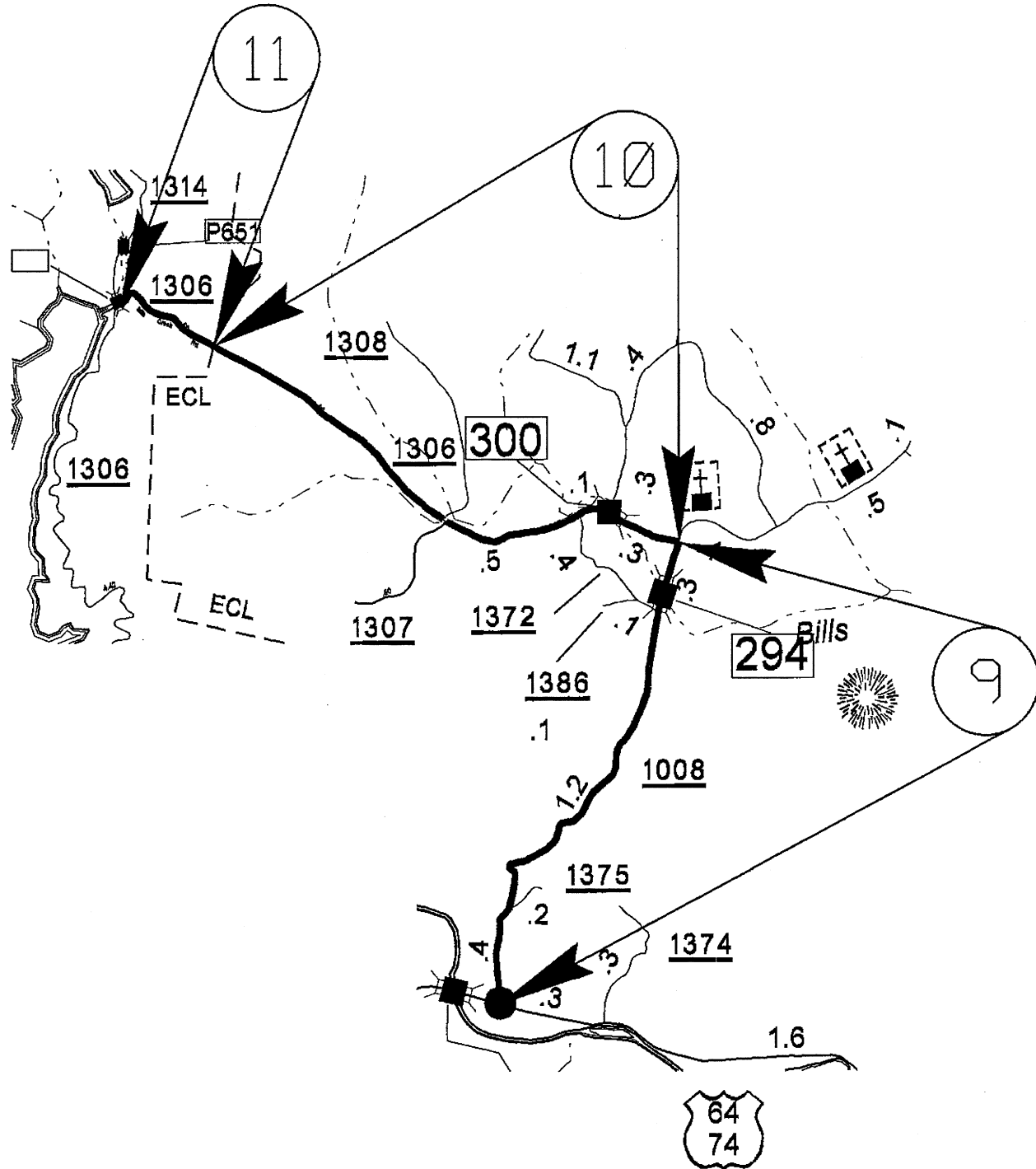
PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10811.13, 13CR.20811.15	1	

McDOWELL COUNTY



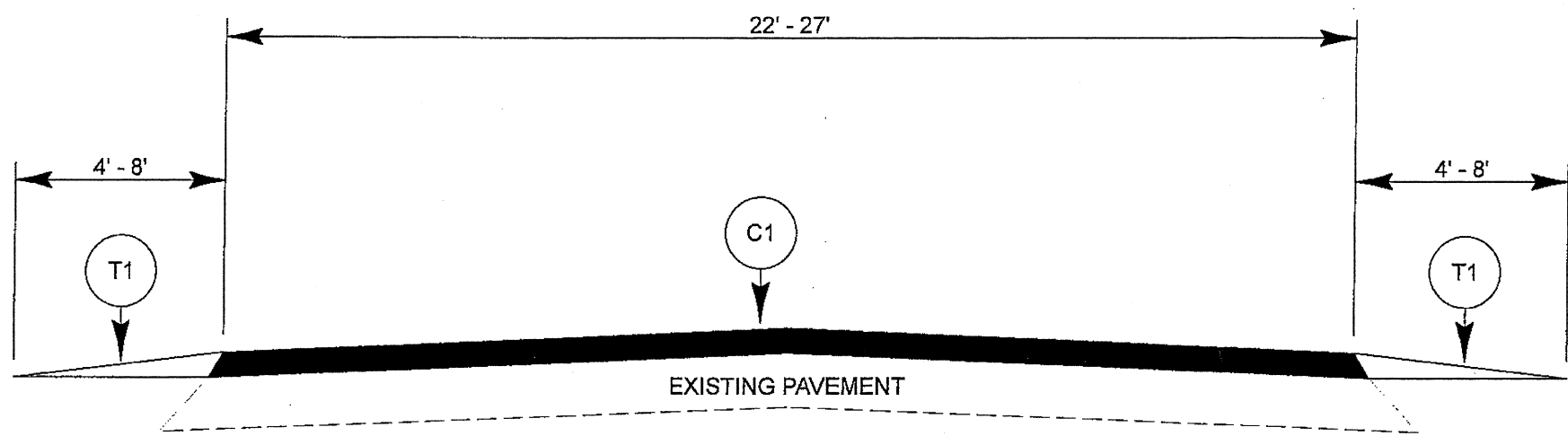
RUTHERFORD COUNTY

PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10811.13, 13CR.20811.15	2	

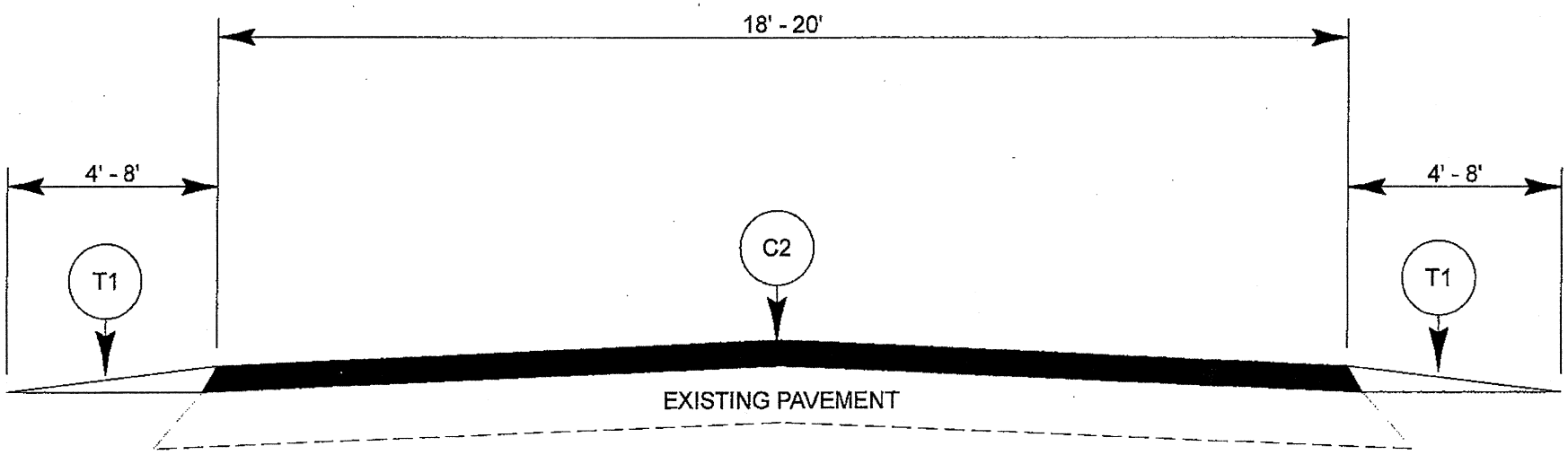


RUTHERFORD COUNTY

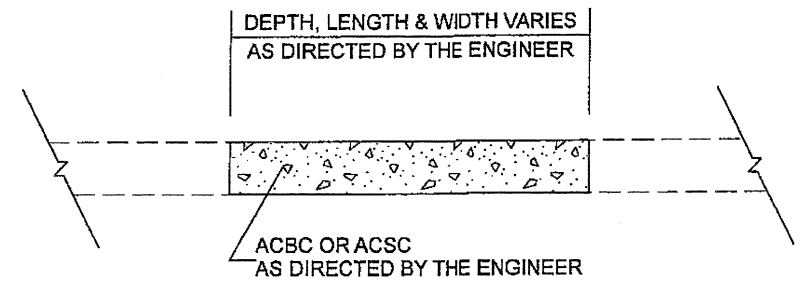
PROJECT NO. 13CR.10811.13, 13CR.20811.15	SHEET NO. 3	TOTAL SHEETS
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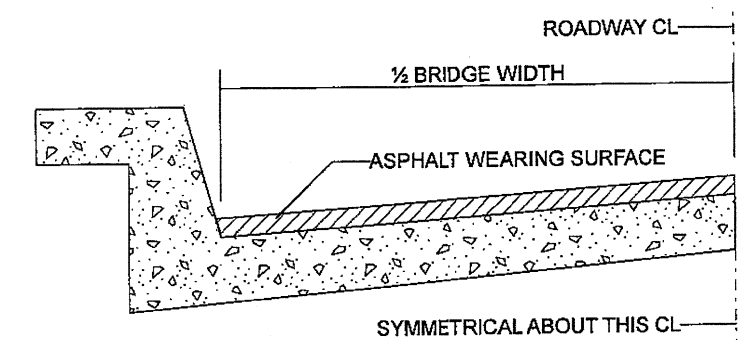
TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2



PATCHING EXISTING PAVEMENT



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

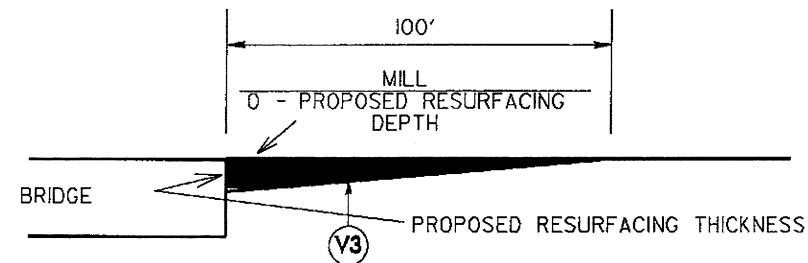
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1/2", SF9.5A 1.0", S9.5X 1.5", S12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A 3/4", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX ASPHALT-TYPE C 1/2". THE MAXIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1.0", SF9.5A 1.5", S9.5X 2.0", S12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A 3/4", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX ASPHALT-TYPE C 1/2".

NOTES

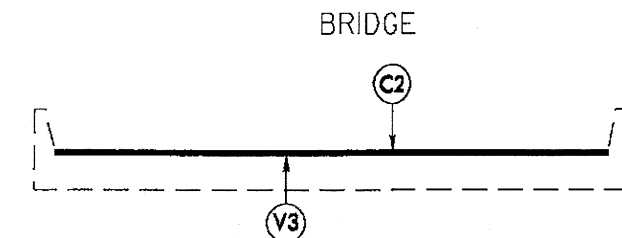
ALL UNPAVED ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
 ALL PAVED S. R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
 EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
 SHOULDERS AND DITCHES ARE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

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1-1/2" ACSC, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1-1/2" ACSC, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
V3	INCIDENTAL MILLING

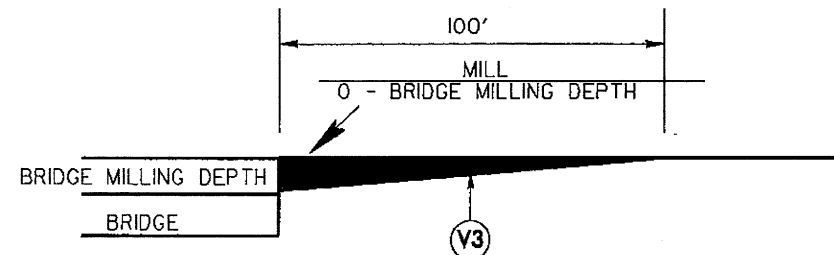
PROJECT NO.	SHEET NO.	TOTAL SHEETS
13CR.10811.13, 13CR.20811.15	4	



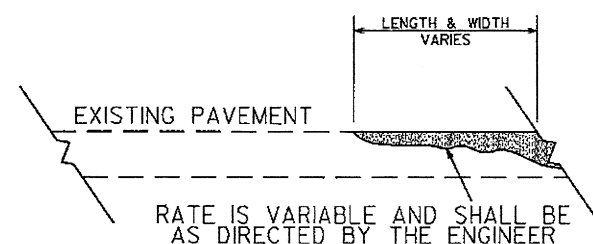
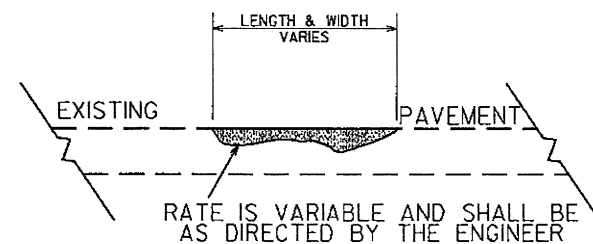
INCIDENTAL MILLING DETAIL AT BRIDGE APPROACHES
WHERE BRIDGES WILL NOT BE RESURFACED.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.



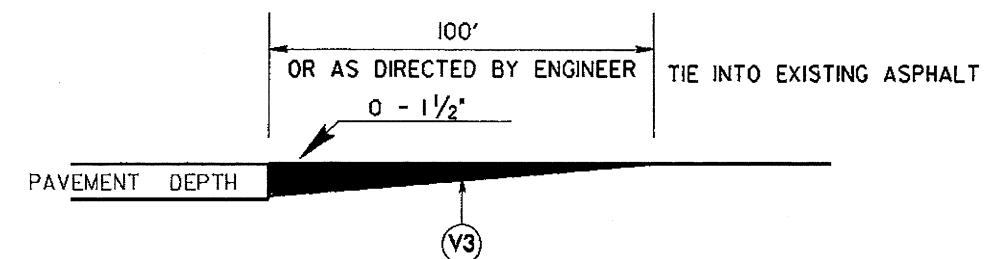
BRIDGE DETAIL
BRIDGE 252 MAP 13
MILL 1/2" OFF EXISTING PAVEMENT
SEE MAPS FOR BRIDGE LOCATION
THIS WILL BE PAID FOR
AS INCIDENTAL MILLING



INCIDENTAL MILLING DETAIL AT BRIDGE APPROACHES
WHERE BRIDGES WILL BE MILLED THEN RESURFACED.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.



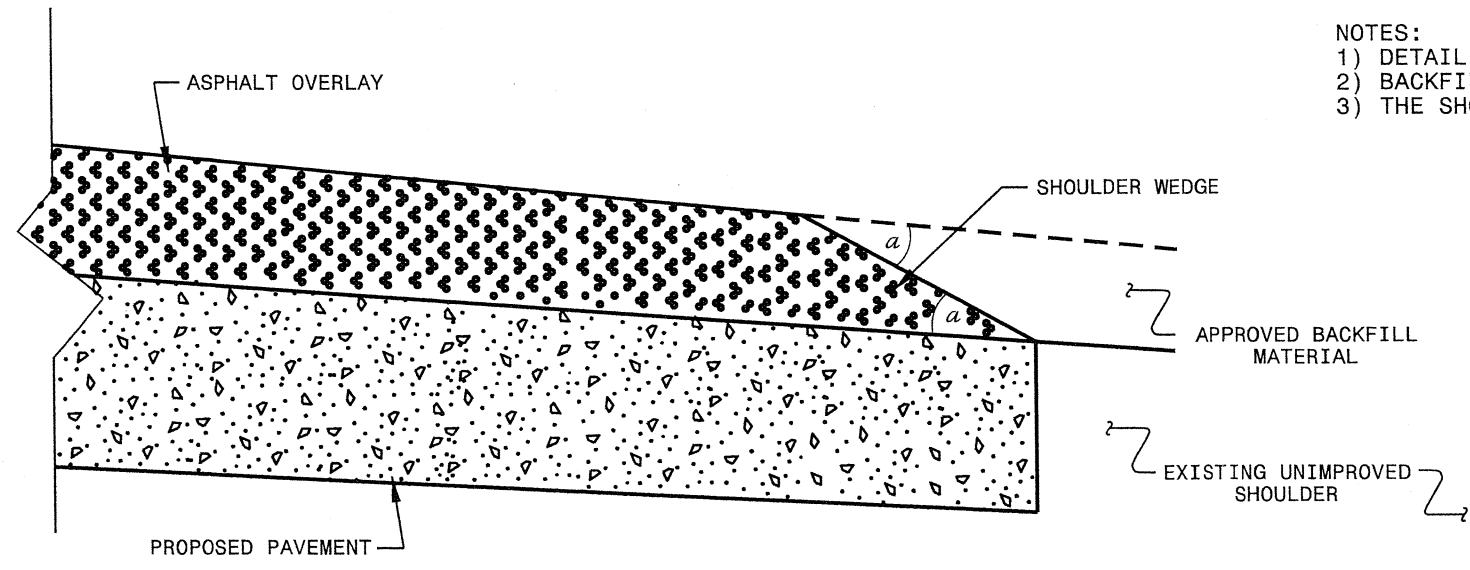
DETAIL SHOWING
METHOD OF WEDGING



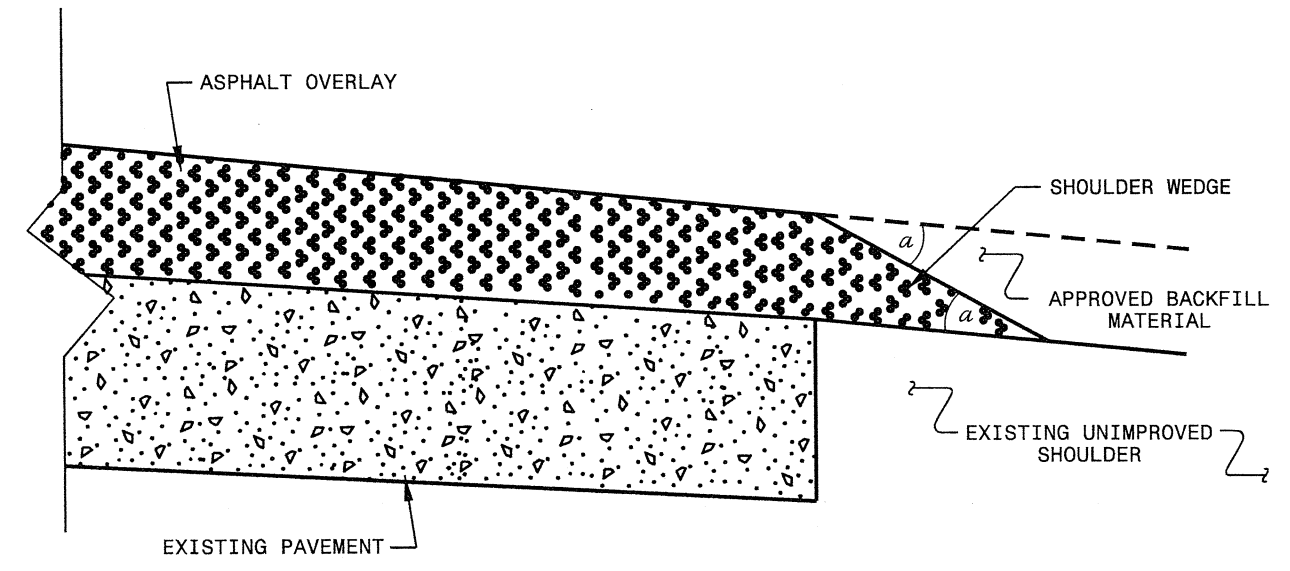
DETAIL TO TIE INTO EXIST PAVEMENT

THE CONTRACTOR'S ATTENTION IS DIRECTED TO
THE FACT THAT HE WILL BE REQUIRED TO MILL
THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER
TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END
AND Y LINES OF EACH MAP TO BE RESURFACED WITH
ASPHALT CONC SURFACE COURSE, TYPE S9.5B.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.

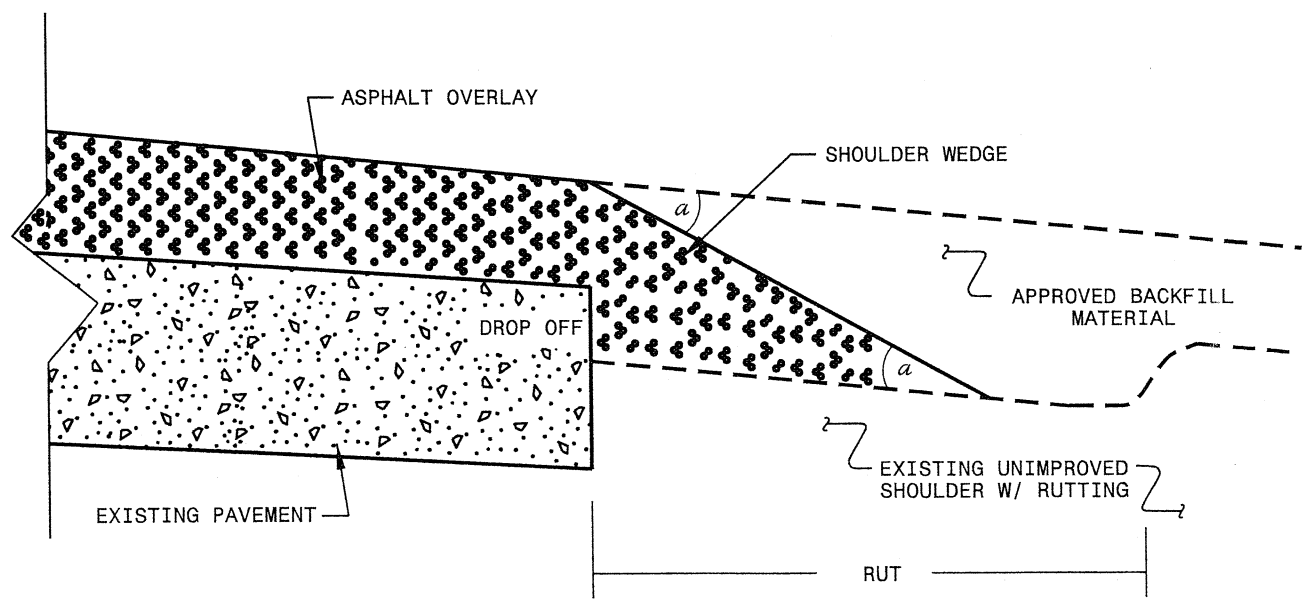
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
SHOULDER WEDGE DETAILS	
ORIGINAL BY: T.SPELL	DATE: 7-18-11
MODIFIED BY:	DATE: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\detail\stand\shoulderwedgedetail.dgn	

 SYSTEM TIME *****

 USER NAME *****

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10811.13, 13CR.20811.15	6	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TON	SHOULDER RECONSTRUCTION SMI	INCIDENTAL MILLING SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5B TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT TON	ADJUSTMENT OF MANHOLES EA
13CR.10811.13	Rutherford	1	US 64	FROM 200' SOUTH OF SR 1007 TO SR 1516 (MP 29.53 - MP 30.52)	1	2	2WU	NO	NO	0.99	27	50	1.98	2,700	1,456		87	50	
13CR.10811.13	Rutherford	2	US 64	FROM SR 1516 TO SR 1515 + 0.22 MI. (MP 30.52 - MP 32.52)	1	2	2WU	NO	NO	2	22	100	4.00	1,223	2,399		144	50	
13CR.10811.13	Rutherford	3	US 64	FROM SR 1515 + 0.22 MI. TO SR 1512 + 0.76 MI. (MP 32.52 - MP 34.52)	1	2	2WU	NO	NO	2	22	100	4.00	978	2,399		144	100	
13CR.10811.13	Rutherford	4	US 64	FROM SR 1512 + 0.76 MI. TO MCDOWELL COUNTY (MP 34.52 - MP 36.17)	1	2	2WU	NO	NO	1.65	22	83	3.30	733	1,979		119	100	
13CR.10811.13	Rutherford	5	US 64	FROM SR 1521 + 0.19 MI. TO 200' SOUTH OF SR 1007 (MP 27.53 - MP 29.53)	1	2	2WU	NO	NO	2	27	100	4.00	2,100	2,941		176	100	
TOTAL FOR PROJ NO. 13CR.10811.13										8.64		433	17.28	7,734	11,174		670	400	
13CR.20811.15	Rutherford	6	SR 1008	FROM SR 1318 TO SR 1001 (MP 7.83 - MP 8.98)	2	2	2WU	NO	NO	1.15	18	57	2.30			1,110	74	1,050	
13CR.20811.15	Rutherford	7	SR 1008	FROM SR 1371 TO SR 1318 (MP 6.77 - MP 7.83)	2	2	2WU	NO	NO	1.06	18	53	2.12			1,023	69	800	
13CR.20811.15	Rutherford	8	SR 1008	FROM THE PAVEMENT CHANGE TO SR 1371 (MP 5.40 - MP 6.77)	2	2	2WU	NO	NO	1.37	18	69	2.74	400		1,322	89	550	
13CR.20811.15	Rutherford	9	SR 1008	FROM US 64 TO SR 1306 (MP 0.00 - MP 1.90)	2	2	2WU	NO	NO	1.9	18	95	3.80			1,833	123	900	
13CR.20811.15	Rutherford	10	SR 1306	FROM ECL LAKE LURE TO SR 1008 (MP 4.92 - MP 6.76)	2	2	2WU	NO	NO	1.84	18	92	3.68			1,776	119	1,400	
13CR.20811.15	Rutherford	11	SR 1306	FROM SR 1314 TO ECL LAKE LURE (MP 4.39 - MP 4.92)	2	2	2WU	NO	NO	0.53	18	27	1.06			511	34	200	1
13CR.20811.15	Rutherford	12	SR 1001	FROM SR 1345 TO SR 1351 (MP 7.65 - MP 9.04)	2	2	2WU	NO	NO	1.39	20	70	2.78			1,489	100	800	
13CR.20811.15	Rutherford	13	SR 1001	FROM MCDOWELL COUNTY TO SR 1008 (MP 0.00 - MP 1.25)	2	2	2WU	NO	NO	1.25	18	63	2.50	539		1,206	81	600	
13CR.20811.15	Rutherford	14	SR 1001	FROM SR 1008 TO THE PAVEMENT CHANGE (MP 1.25 - MP 1.71)	2	2	2WU	NO	NO	0.46	18	23	0.92			444	30	350	
TOTAL FOR PROJ NO. 13CR.20811.15										10.95		549	21.90	939		10,714	719	6,650	1
GRAND TOTAL										19.59		982	39.18	8,673	11,174	10,714	1,389	7,050	1

PROJECT NO.	SHEET NO.	TOTAL NO.
13CR.10811.13, 13CR.20811.15	7	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E		4847000000-E		4905000000-N		
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	POLYUREA PAVEMENT MARKING LINES (4") WHITE (HIGHLY REFLECTIVE ELEMENTS)	POLYUREA PAVEMENT MARKING LINES (4") YELLOW (HIGHLY REFLECTIVE ELEMENTS)	SNOWPLOWABLE PAVEMENT MARKERS		
										SF	LS	LF	LF	LF	LF	EA		
13CR.10811.13	Rutherford	1	US 64	FROM 200' SOUTH OF SR 1007 TO SR 1516 (MP 29.53 - MP 30.52)	1	2	2WU	0.99	27	967	*			10,454	10,454	65		
13CR.10811.13	Rutherford	2	US 64	FROM SR 1516 TO SR 1515 + 0.22 MI. (MP 30.52 - MP 32.52)	1	2	2WU	2	22							21,120	21,120	132
13CR.10811.13	Rutherford	3	US 64	FROM SR 1515 + 0.22 MI. TO SR 1512 + 0.76 MI. (MP 32.52 - MP 34.52)	1	2	2WU	2	22							21,120	21,120	132
13CR.10811.13	Rutherford	4	US 64	FROM SR 1512 + 0.76 MI. TO MCDOWELL COUNTY (MP 34.52 - MP 36.17)	1	2	2WU	1.65	22							17,424	17,424	109
13CR.10811.13	Rutherford	5	US 64	FROM SR 1521 + 0.19 MI. TO 200' SOUTH OF SR 1007 (MP 27.53 - MP 29.53)	1	2	2WU	2	27							21,120	21,120	132
TOTAL FOR PROJ NO. 13CR.10811.13								8.64		967	1			91,238	91,238	570		
182,476																		
13CR.20811.15	Rutherford	6	SR 1008	FROM SR 1318 TO SR 1001 (MP 7.83 - MP 8.98)	2	2	2WU	1.15	18	1,226	*	24,288	24,288			76		
13CR.20811.15	Rutherford	7	SR 1008	FROM SR 1371 TO SR 1318 (MP 6.77 - MP 7.83)	2	2	2WU	1.06	18					22,387	22,387			70
13CR.20811.15	Rutherford	8	SR 1008	FROM THE PAVEMENT CHANGE TO SR 1371 (MP 5.40 - MP 6.77)	2	2	2WU	1.37	18					28,934	28,934			90
13CR.20811.15	Rutherford	9	SR 1008	FROM US 64 TO SR 1306 (MP 0.00 - MP 1.90)	2	2	2WU	1.9	18					40,128	40,128			125
13CR.20811.15	Rutherford	10	SR 1306	FROM ECL LAKE LURE TO SR 1008 (MP 4.92 - MP 6.76)	2	2	2WU	1.84	18					38,861	38,861			
13CR.20811.15	Rutherford	11	SR 1306	FROM SR 1314 TO ECL LAKE LURE (MP 4.39 - MP 4.92)	2	2	2WU	0.53	18					11,194	11,194			
13CR.20811.15	Rutherford	12	SR 1001	FROM SR 1345 TO SR 1351 (MP 7.65 - MP 9.04)	2	2	2WU	1.39	20					29,357	29,357			
13CR.20811.15	Rutherford	13	SR 1001	FROM MCDOWELL COUNTY TO SR 1008 (MP 0.00 - MP 1.25)	2	2	2WU	1.25	18					26,400	26,400			83
13CR.20811.15	Rutherford	14	SR 1001	FROM SR 1008 TO THE PAVEMENT CHANGE (MP 1.25 - MP 1.71)	2	2	2WU	0.46	18					9,715	9,715			
TOTAL FOR PROJ NO. 13CR.20811.15								10.95		1,226	1	231,264	231,264			444		
462,528																		
GRAND TOTAL								19.59		2,193	1	231,264	231,264	91,238	91,238	1,014		
462,528																		
182,476																		