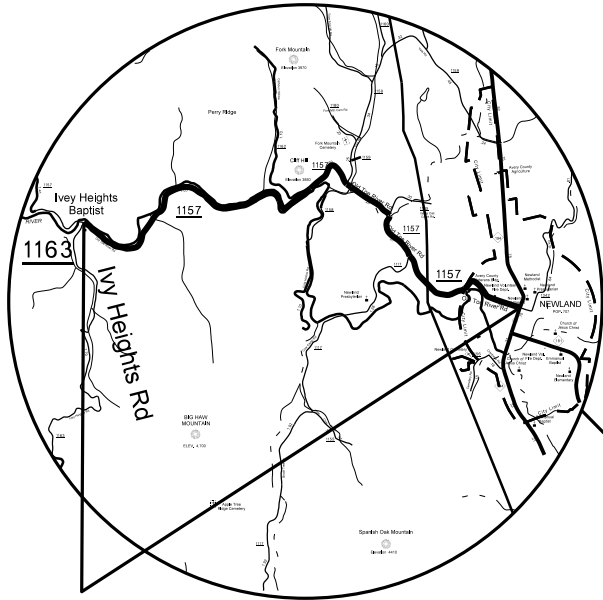


STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

AVERY COUNTY

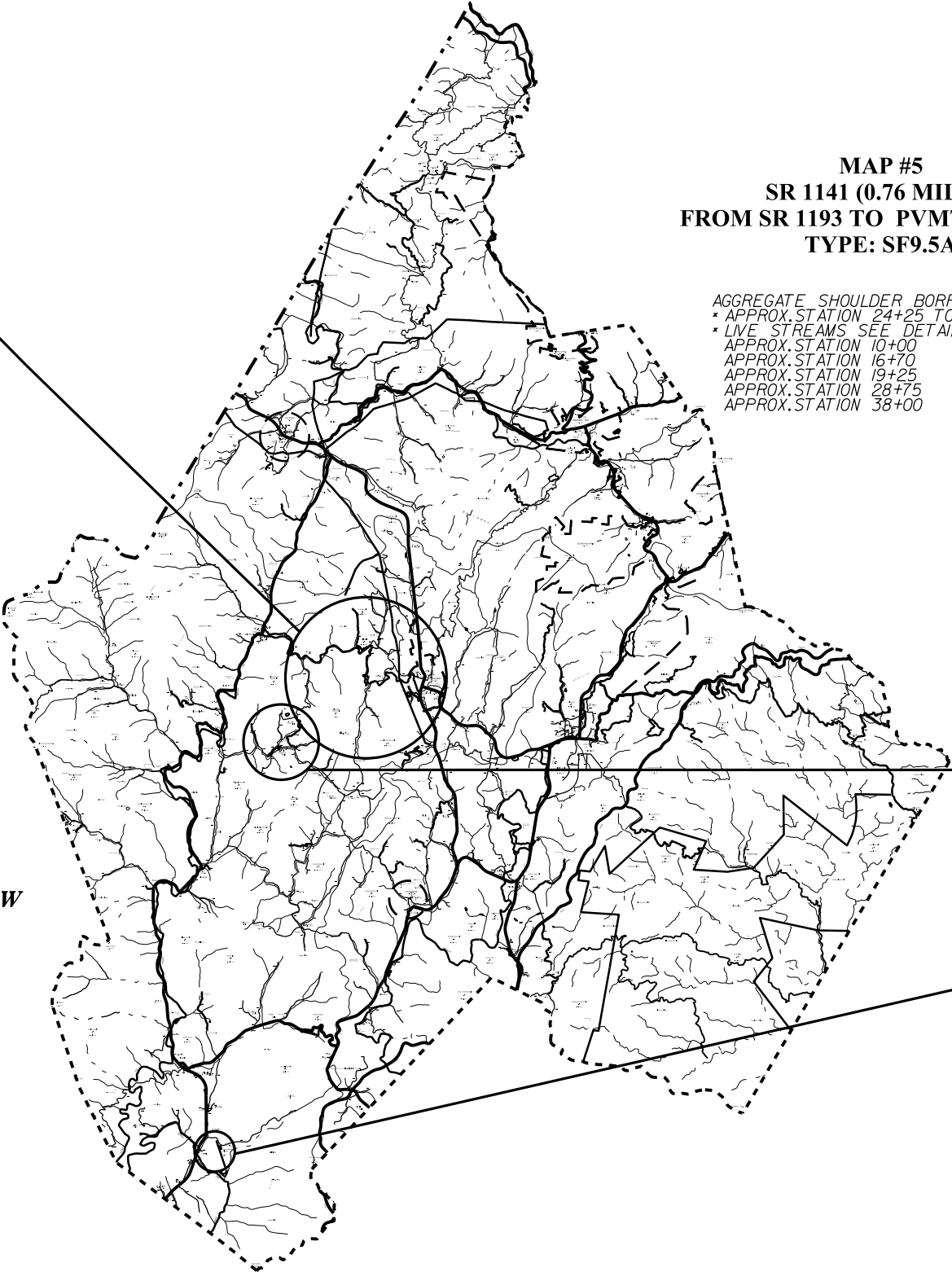
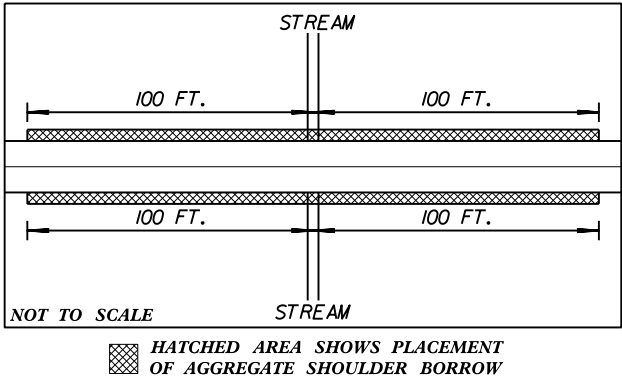
SECONDARY ASPHALT RESURFACING



MAP #1  
SR 1157 (3.00 MILES)  
FROM SR 1163 TO NEWLAND WCL  
TYPE: SF 9.5A

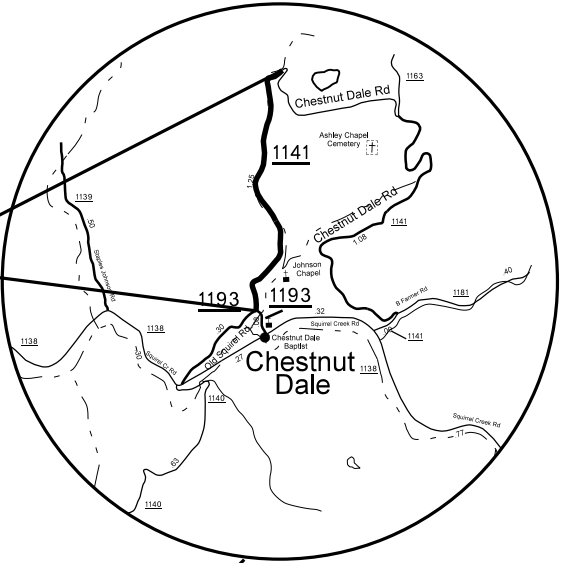
AGGREGATE SHOULDER TO BE PLACED:  
\* APPROX. STATION 94+50 TO 95+50 RIGHT AND LEFT  
\* APPROX. STATION 102+50 TO 103+50 RIGHT AND LEFT  
\* APPROX. STATION 133+50 TO 134+50 RIGHT AND LEFT  
\* APPROX. STATION 139+50 TO 140+50 RIGHT AND LEFT  
\* LIVE STREAMS SEE DETAIL  
APPROX. STATION 36+50  
APPROX. STATION 80+50  
APPROX. STATION 105+00  
APPROX. STATION 118+00

\*DETAIL FOR AGGREGATE SHOULDER BORROW  
AT STREAM CROSSING



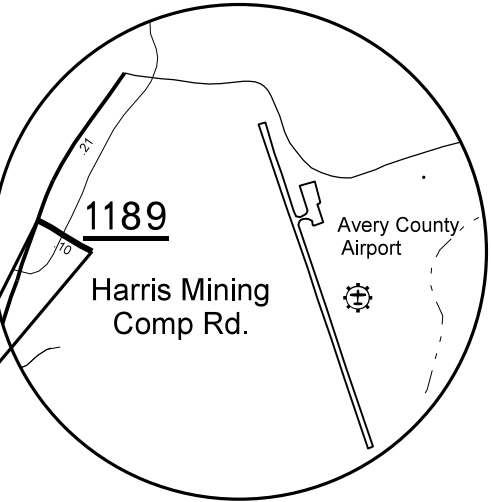
MAP #5  
SR 1141 (0.76 MILES)  
FROM SR 1193 TO PVMT. CHANGE  
TYPE: SF9.5A

AGGREGATE SHOULDER BORROW TO BE PLACED:  
\* APPROX. STATION 24+25 TO 25+25 RIGHT AND LEFT  
\* LIVE STREAMS SEE DETAIL  
APPROX. STATION 10+00  
APPROX. STATION 16+70  
APPROX. STATION 19+25  
APPROX. STATION 28+75  
APPROX. STATION 38+00



MAP #2  
SR 1189 (0.085 MILES)  
FROM US 19E TO EOM  
TYPE: S9.5B

ASB TO BE PLACED:  
\* APPROX. STATION 1+00 TO 2+00 RIGHT AND LEFT

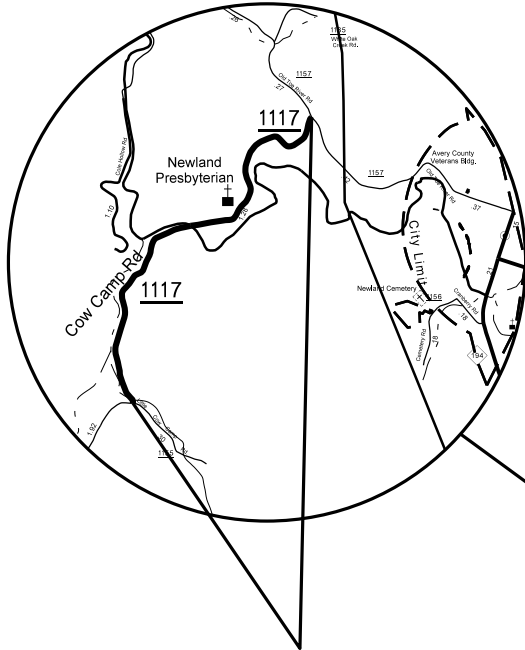


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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**AVERY COUNTY**

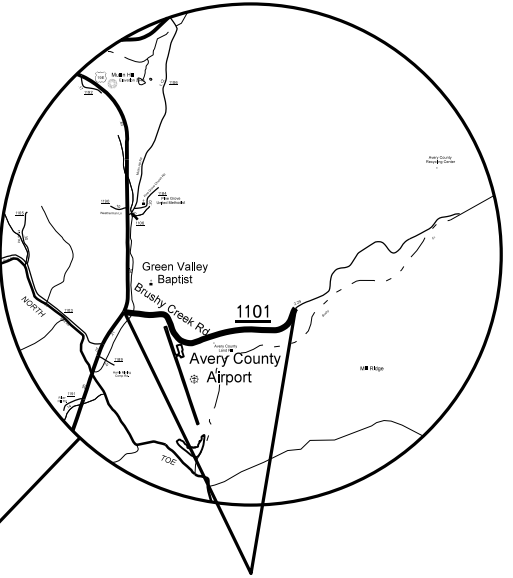
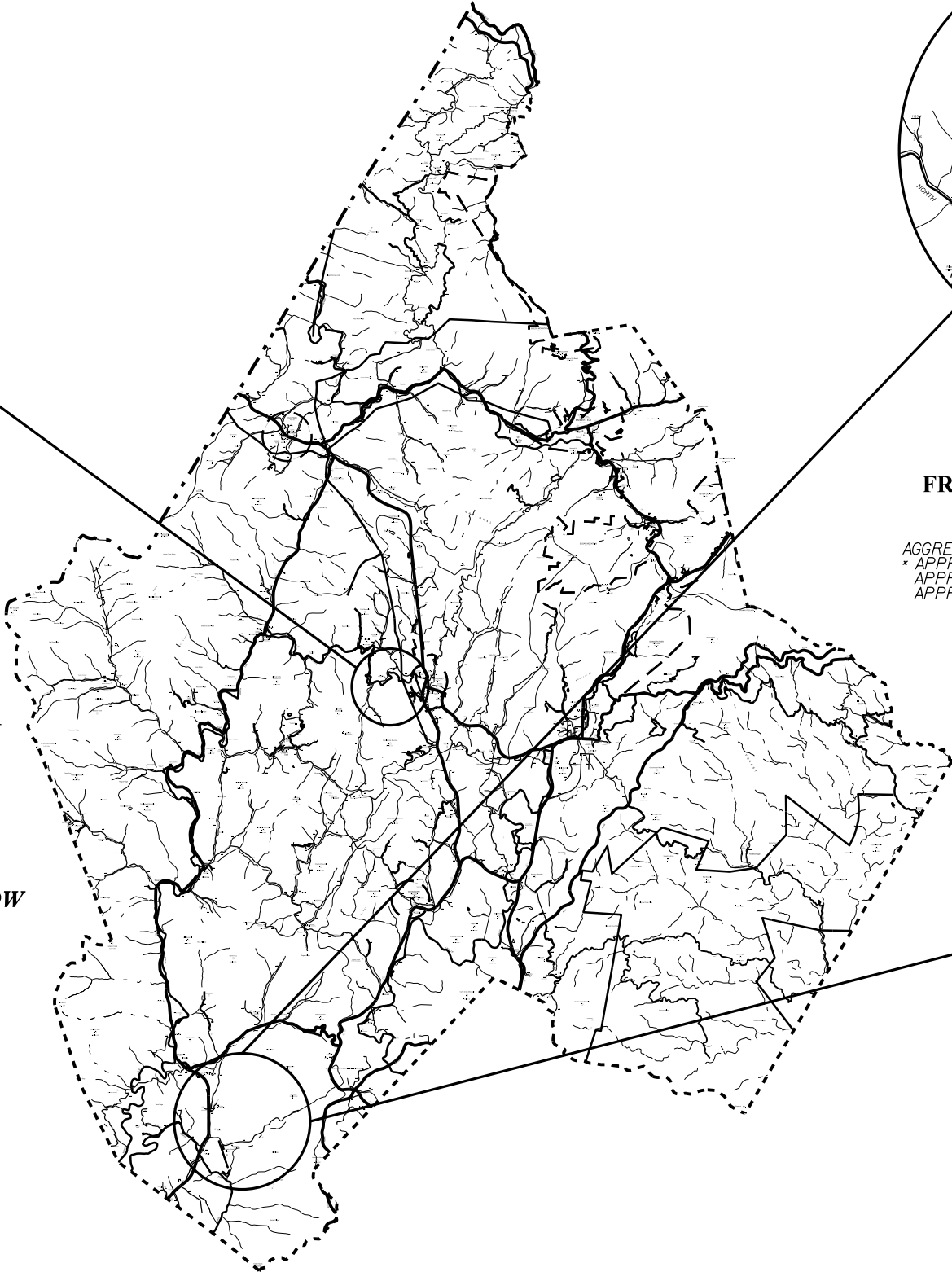
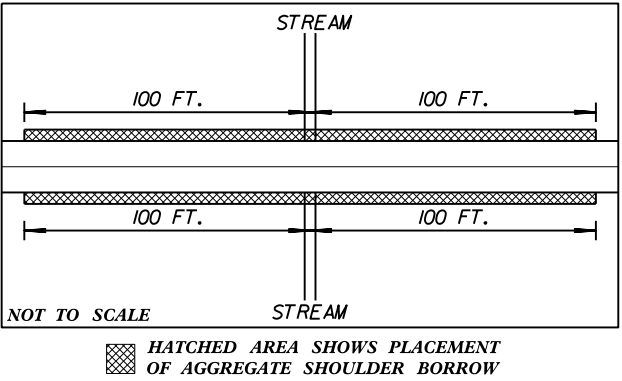
SECONDARY ASPHALT RESURFACING



**MAP #6**  
**SR 1117 (1.29 MILES)**  
**FROM SR 1157 TO SR 1155**  
**TYPE: SF9.5A**  
(MILL TO MATCH EXISTING GUTTER LINE  
STATION 33+00 BRIDGE)

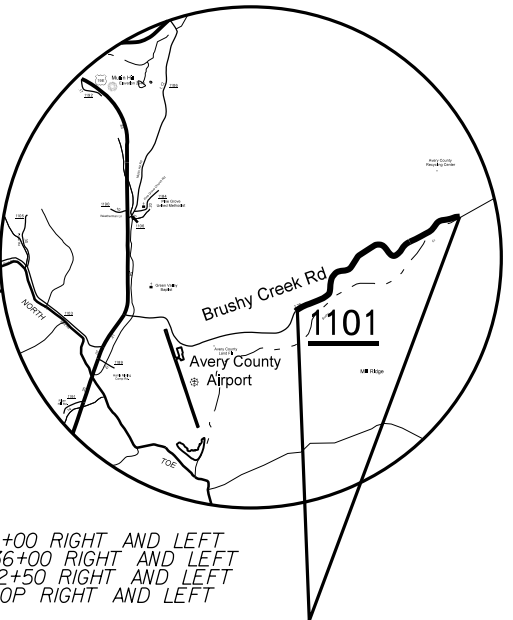
ASB TO BE PLACED:  
\* APPROX. STATION 8+50 TO 9+50 RIGHT AND LEFT  
\* LIVE STREAMS SEE DETAIL  
APPROX. STATION 63+00

**\*DETAIL FOR AGGREGATE SHOULDER BORROW  
AT STREAM CROSSING**



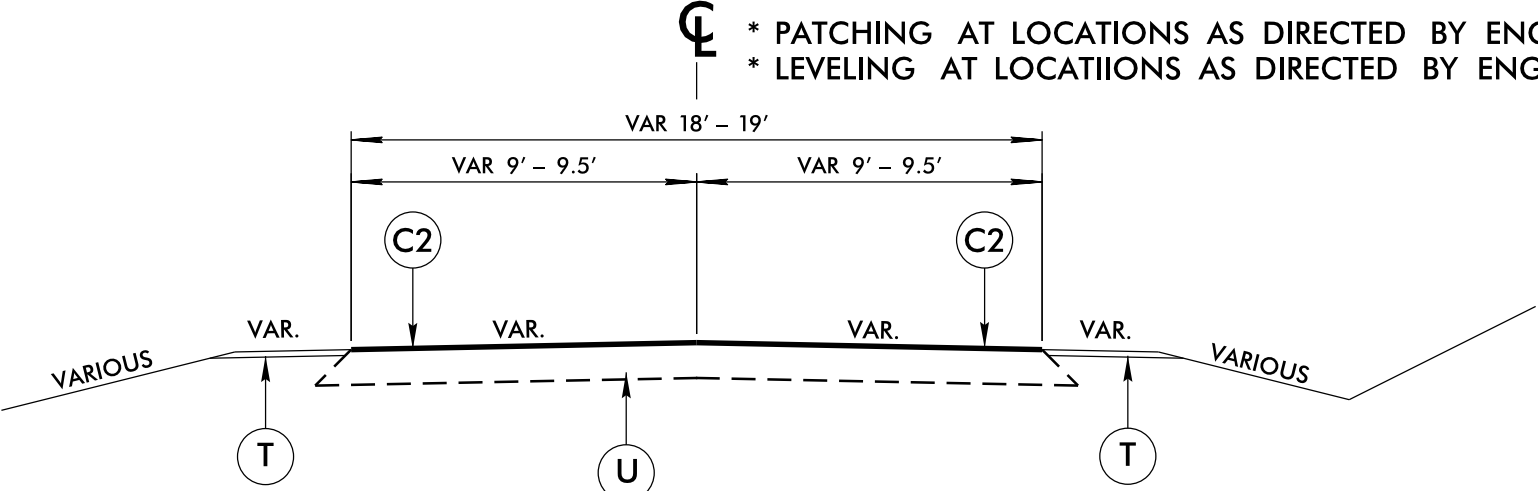
**MAP #3**  
**SR 1101 (0.76 MILES)**  
**FROM NC 19E TO BEG 19' PVMT.**  
**TYPE: S9.5B**

AGGREGATE SHOULDER BORROW TO BE PLACED:  
\* APPROX. STATION 0+00 TO 2+50 RIGHT AND LEFT  
\* APPROX. STATION 21+65 TO 22+65 RIGHT AND LEFT  
\* APPROX. STATION 34+75 TO 35+75 RIGHT AND LEFT



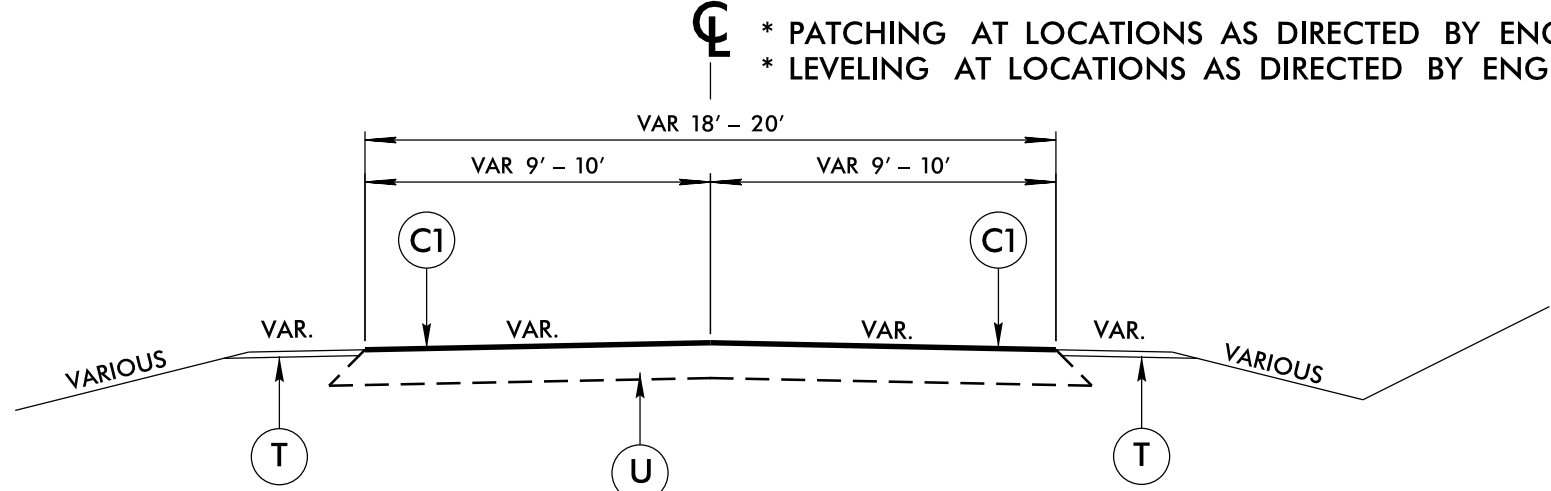
**MAP #4**  
**SR 1101 (1.5 MILES)**  
**FROM BEG 19' PVMT. TO EOM**  
**TYPE: S9.5B**

ASB TO BE PLACED:  
\* APPROX. STATION 18+00 TO 19+00 RIGHT AND LEFT  
\* APPROX. STATION 35+00 TO 36+00 RIGHT AND LEFT  
\* APPROX. STATION 51+50 TO 52+50 RIGHT AND LEFT  
\* APPROX. STATION 77+00 TO EOP RIGHT AND LEFT



TYPICAL SECTION NO. 1

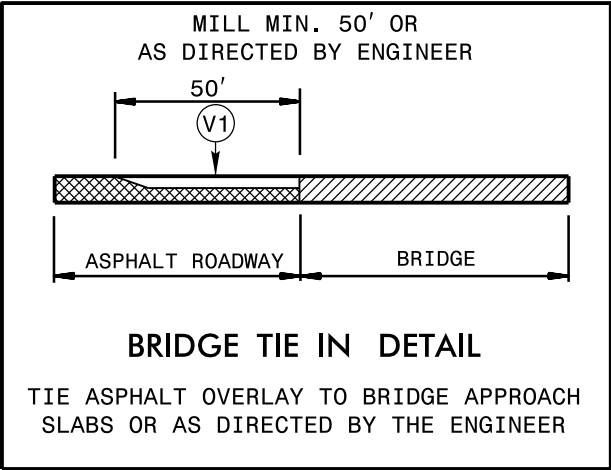
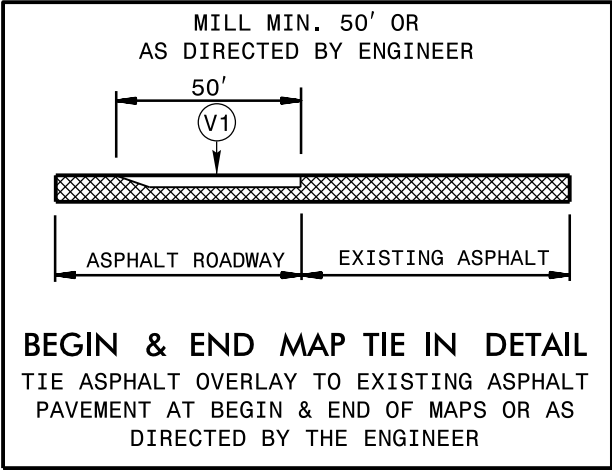
- \* MAP 1 – SR 1157 FROM SR 1163 TO NEWLAND WCL
- \* MAP 5 – SR 1141 FROM SR 1193 TO PAVEMENT CHANGE
- \* MAP 6 – SR 1117 FROM SR 1157 TO SR 1155



TYPICAL SECTION NO. 2

- \* MAP 2 – SR 1189 FROM US 19E TO EOM
- \* MAP 3 – SR 1101 FROM US 19E TO BEGIN 19' PAVEMENT
- \* MAP 4 – SR 1101 FROM BEGIN 19' PAVEMENT TO EOM

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING



AVERY COUNTY  
SECONDARY RESURFACING

DIVISION II

REVISIONS	INIT.	DATE

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

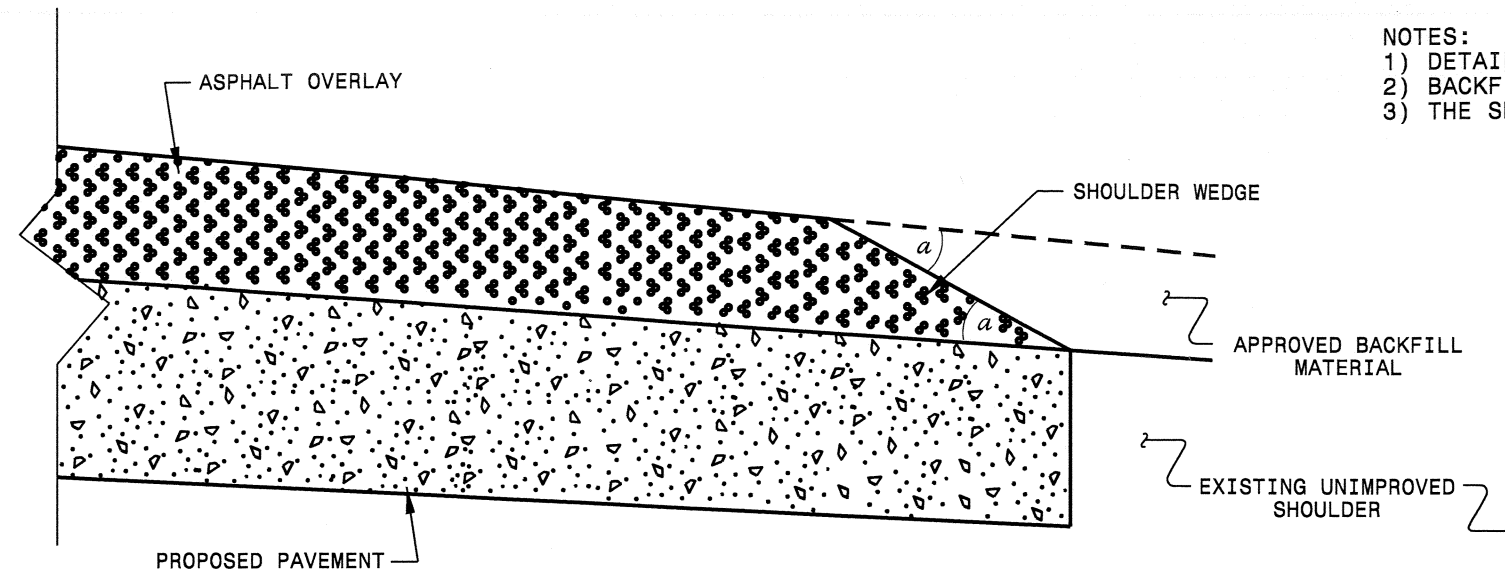
SCALE: N/A    DATE: 07/2014

PREPARED BY: CHAD SHEETS

REVIEWED BY:

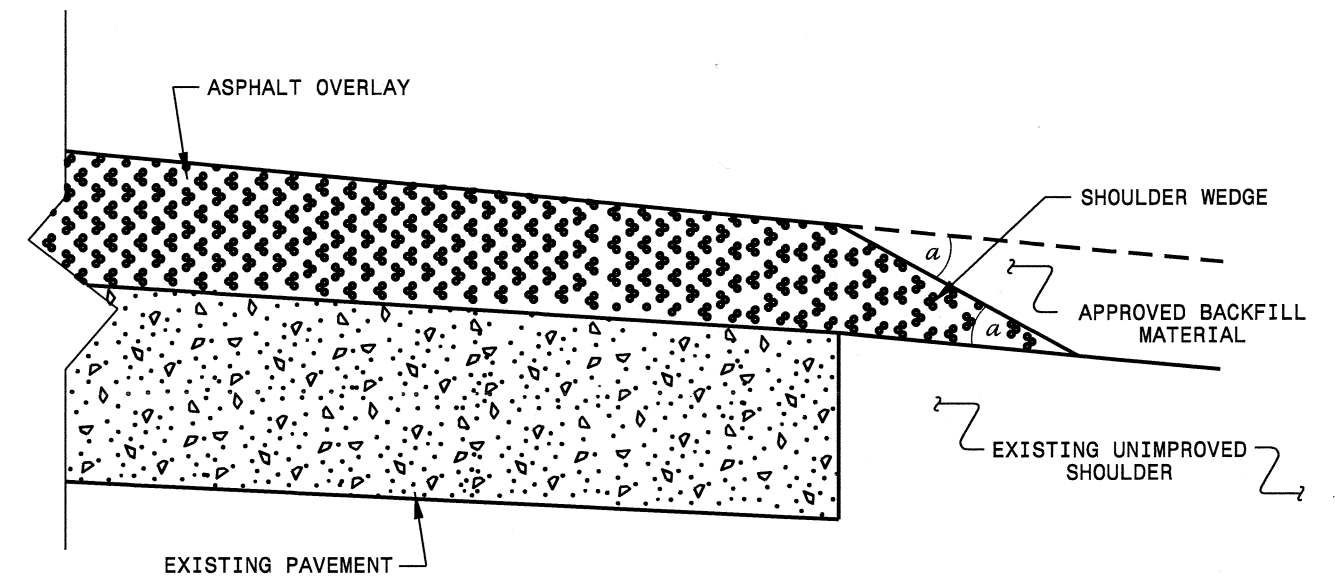
REVIEWED BY:

N.C. DEPARTMENT of TRANSPORTATION  
DIVISION of HIGHWAYS  
DIVISION ELEVEN

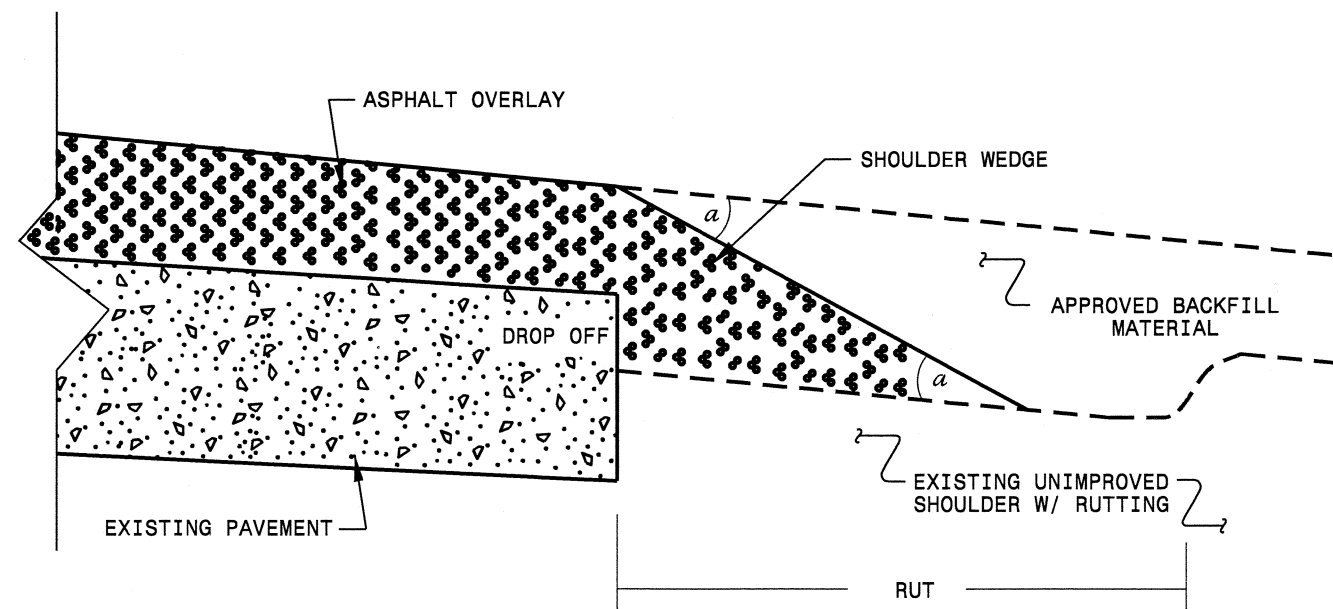


- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

**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°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY:	T.SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	10/16/12
CHECKED BY:		DATE:	
FILE SPEC.:	s:\user\details\stand\shoulderwedgedetail.dgn		

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.20061.22		

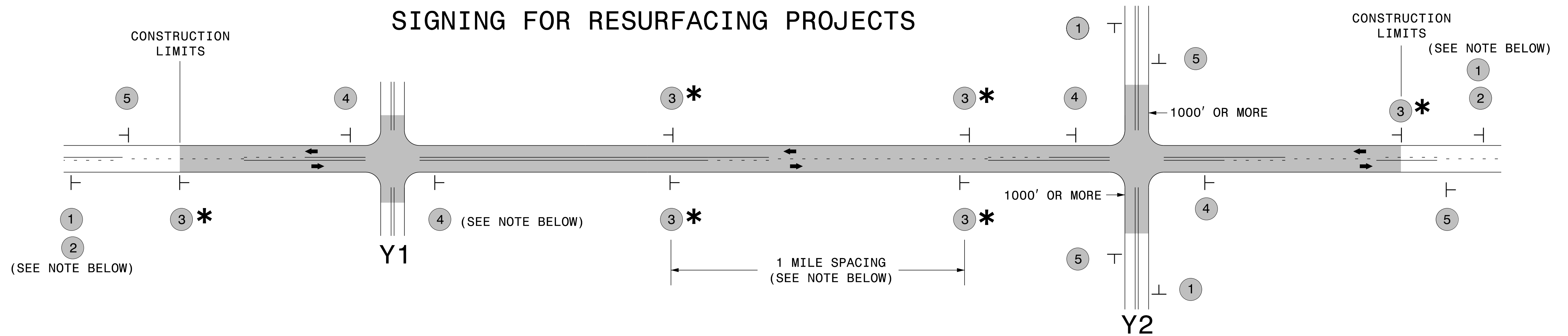
SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, SF9.5A	LEVELING COURSE, SF9.5A	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	SEED & MULCHING
NO		NO			NO					M	FT	CY	TONS	SM	SY	TONS	TONS	TONS	TONS	TONS	TONS	AC
11CR.20061.22	Avery	1	SR 1157	FROM SR 1163 TO NEWLAND WCL	1	2	2WU	NO	NO	3	19	600	100	6.00	215			2,830		190	270	2.10
11CR.20061.22	Avery	2	SR 1189	FROM US 19E TO EOM	2	2	2WU	NO	NO	0.085	20	17	10	0.17	112	95				6	20	0.05
11CR.20061.22	Avery	3	SR 1101	FROM US 19E TO BEGIN 19' PAVEMENT	2	2	2WU	NO	NO	0.76	21	152	25	1.52	120	800				48	35	0.50
11CR.20061.22	Avery	4	SR 1101	FROM BEGIN 19' PAVEMENT TO EOM	2	2	2WU	NO	NO	1.5	19	300	50	3.00		1,440	300			106	175	1.00
11CR.20061.22	Avery	5	SR 1141	FROM SR 1193 TO PAVEMENT CHANGE	1	2	2WU	NO	NO	0.76	18	152	25	1.52	200			690		46	500	0.50
11CR.20061.22	Avery	6	SR 1117	FROM SR 1157 TO SR 1155	1	2	2WU	NO	NO	1.29	19	258	75	2.58	212			1,240	300	101	300	0.90
TOTAL FOR PROJ NO. 11CR.20061.22										7.395		1,479	285	14.79	859	2,335	300	4,760	300	497	1,300	5.05
GRAND TOTAL										7.395		1,479	285	14.79	859	2,335	300	4,760	300	497	1,300	5.05

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.20061.22		

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT  NO	COUNTY	MAP  NO	ROUTE	DESCRIPTION	TYP  NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E	4810000000-E
										WORK ZONE ADVANCE/GENERAL WARNING SIGNS	TEMPORARY TRAFFIC CONTROL	4" WHITE PAINT	4" YELLOW PAINT
										SF	LS	LF	LF
11CR.20061.22	Avery	1	SR 1157	FROM SR 1163 TO NEWLAND WCL	1	2	2WU	3	19	214	1	63,360	63,360
11CR.20061.22	Avery	2	SR 1189	FROM US 19E TO EOM	2	2	2WU	0.085	20	32	*		
11CR.20061.22	Avery	3	SR 1101	FROM US 19E TO BEGIN 19' PAVEMENT	2	2	2WU	0.76	21	182	*	16,050	16,050
11CR.20061.22	Avery	4	SR 1101	FROM BEGIN 19' PAVEMENT TO EOM	2	2	2WU	1.5	19	150	*	31,680	31,680
11CR.20061.22	Avery	5	SR 1141	FROM SR 1193 TO PAVEMENT CHANGE	1	2	2WU	0.76	18	150	*	16,050	16,050
11CR.20061.22	Avery	6	SR 1117	FROM SR 1157 TO SR 1155	1	2	2WU	1.29	19	144	*	27,244	27,244
TOTAL FOR PROJ NO. 11CR.20061.22								7.395		872	1	154,384	154,384
GRAND TOTAL								7.395		872	1	154,384	154,384


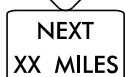


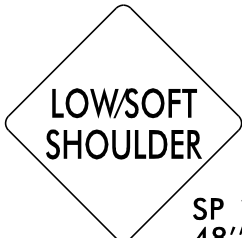

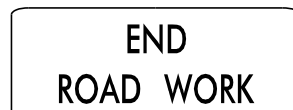


## LEGEND

└ STATIONARY SIGN  
← DIRECTION OF TRAFFIC FLOW

## MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<div><div>1</div><div><div>W20-1 48" X 48"</div></div></div> <div><div>2</div><div><div>W7-3aP 24" X 18"</div></div></div> <div>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</div>	<div>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</div> <div>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS</div> <div>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</div> <div><div><div>W20-1 48" X 48"</div></div><div><div>W20-7 A 48" X 48"</div></div></div> <div>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</div>
	<div><div>3</div><div><div>SP 13107 48" X 48"</div></div></div> <div>*</div> <div>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</div>	
	<div><div>4</div><div><div>SP 13106 48" X 48"</div></div></div> <div>THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</div>	
	<div><div>5</div><div><div>G20-2 A 48" X 24"</div></div></div> <div>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</div>	

**\* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)**

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:  
STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



# RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2 LANE ROADWAYS