STATE	STATE	NO.	SHEETS	
N.C.	1CR.	10721.9, ETC.	1	5
STATE	PROJ. NO.	P. A. PROJ. NO.	DESCRIPT	ION
1CR.	10721.9		MAP	1
1CR.	10721.9		MAP	2
1CR.1	0721.10		MAP	3
1CR.	10721.11		MAP	4

PERQUIMANS COUNTY

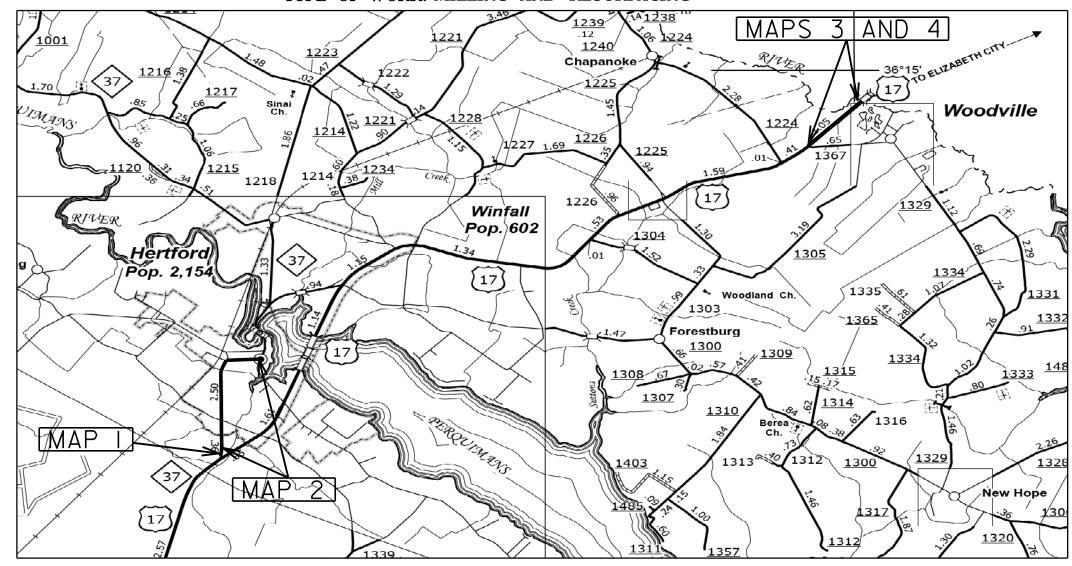
LOCATION: MAP 1 US 17 BUS. FROM US 17 TO STA. 20 + 75

MAP 2 US 17 BUS. FROM STA. 20 + 75 TO HARVEY POINT RD. (SR 1336)

MAP 3 US 17 N FROM OLD US 17 RD. (SR 1367) TO PASQUOTANK CO. LINE

MAP 4 US 17 S FROM PASQUOTANK CO. LINE TO OLD US 17 RD. (SR 1367)

TYPE OF WORK: MILLING AND RESURFACING



RACT: D

E

NOT TO SCALE

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 1CR.10721.9 MAP 1 = 0.39 MI. LENGTH OF ROADWAY PROJECT 1CR.10721.9 MAP 2 = 1.47 MI.

LENGTH OF ROADWAY PROJECT 1CR.10721.11 MAP 3 = 1.08 MI.

LENGTH OF ROADWAY PROJECT 1CR.10721.11 MAP 4 = 1.08 MI.

DIVISION OF HIGHWAYS 113 Airport Dr., Edenton NC, 27932 2012 STANDARD SPECIFICATIONS LETTING DATE: W.B. HOBBS, P.E. DIVISION PROJECT MANAGER C.E. SLACHTA

DIVISION PROPOSALS ENGINEER

Prepared in the Office of:

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA



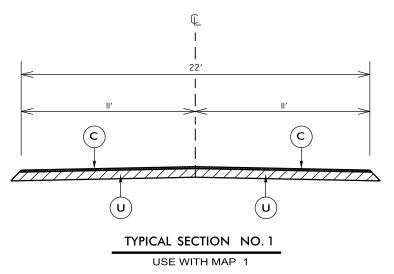
PAVEMENT SCHEDULE	Р	Α	٧	Ε	М	Ε	N	Т		s	С	Н	Ε	D	U	L	Е	
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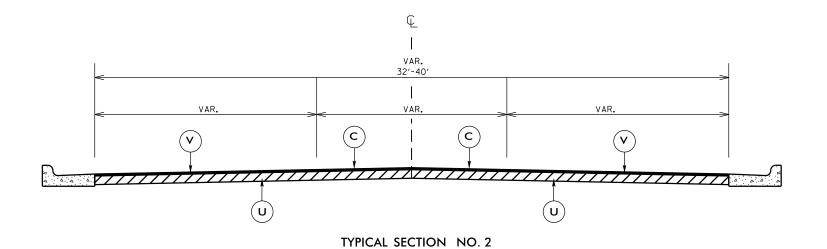
С	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C1	PROP. APPROX. $1\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
V	MILLING BITUMINOUS PAVEMENT. 1½"DEPTH.

PROJECT REFERENCE NO.	SHEET NO.
1CR.10721.9, ETC.	2

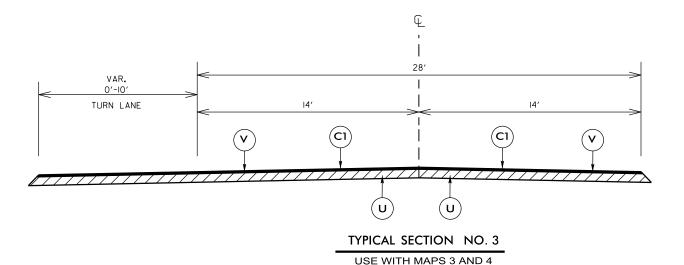
NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
- *PERMANENT PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS.
- *CONTRACTOR SHALL PERFORM TEMPORARY PAVEMENT MARKINGS AT MULTILANE FACILITIES.
- *SHOULDERS TO BE CONSTRUCTED BY OTHERS.





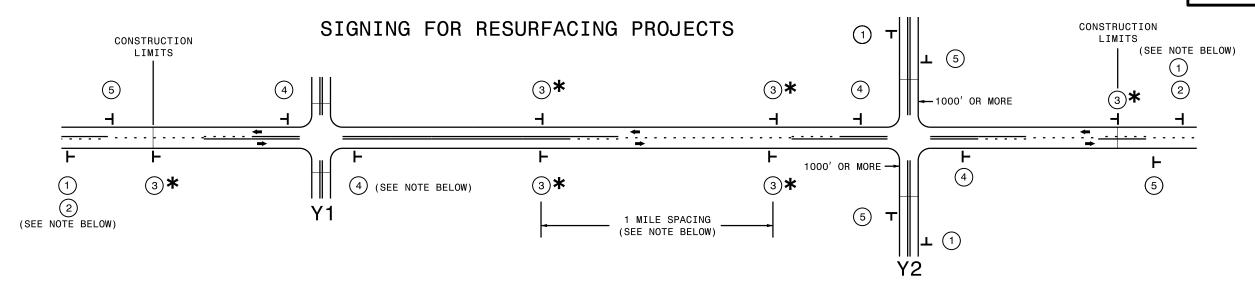
USE WITH MAP 2



PROJECT NO.	SHEET
1CD 10731 0 FTC	2

SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES LAN	FINAL	WARM MIX	LENGTH	WIDTH	MOBILIZATION	1½"	INCIDENTAL	SURFACE	SURFACE	ASPHALT	ADJ. OF	ADJ. OF	TEMPORARY	4" WHITE	4" YELLOW	24" WHITE	PAINT MSG	PAINT LT	PAINT STR ARROW	INDUCTIVE
						TYPI	SURFACE	ASPHALT				MILLING	MILLING	COURSE,	COURSE,	BINDER FOR	MANHOLES	METER OR	TRAFFIC	PAINT	PAINT	PAINT	SCHOOL	ARROW		LOOP
							TESTING	REQUIRED						S9.5B	S9.5C	PLANT MIX		VALVE BOX	CONTROL							SAWCUT
							REQUIRED																			
NO		NO			NO				MI	FT	LS	SY	SY	TONS	TONS	TONS	EA	EA	LS	LF	LF	LF	EA	EA	EA	LF
1CR.10721	9 Perquimans	ıs 1	US 17 BUS. PERQ.	FROM US 17 TO STA. 20+75.00	1	2 2Wl	J NO	NO	0.39	22	1		200	472		28			1	4,150	4,150					
1CR.10721	9 Perquimans	ıs 2	US 17 BUS. PERQ.	FROM STA. 20+75.00 TO SR 1336	2	3 2WI	NO	NO	1.47	32-40	*	32,500		2,828		170	14	4	*	15,500	15,500	700	12	25		400
1CR.10721.	0 Perquimans	ıs 3	US 17 NBL	FROM SR 1367 TO PASQ. CO. LINE	3	2 MD	NO	NO	1.08	28	*	17,741			1,950	115			*	7,126	5,700			2	4	
1CR.10721.	1 Perquimans	ıs 4	US 17 SBL	FROM PASQ. CO. LINE TO SR 1367	3	2 MD	NO	NO	1.08	28	*	17,741			1,950	115			*	7,126	5,700			3	7	
	GRAND	D TOTAL							4.02		1	67,982	200	3,300	3,900	428	14	4	1	33,902	31,050	700	12	30	11	400



LEGEND

→ STATIONARY SIGN

→ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ROAD ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. FES AND DIRECTION WORK AHEAD , 48" X 48" #2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS) PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART (3)***** LOW/SOFT THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE NOT SHOULDER CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER. PER IGNING THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND PLACEMENT SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM ROAD EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT 4 UNDER ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL CONST 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. PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS. ROAD WORK G20-2 A

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

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.





PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

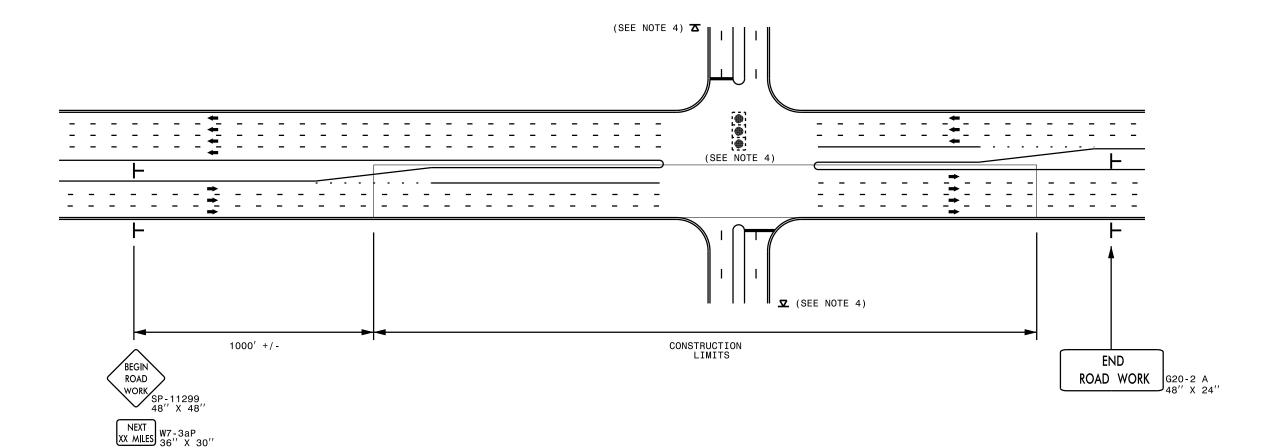
* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

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

URBAN / SUBURBAN WORKZONES



NOTES:

- 1) $48" \times 48"$ SIZED SIGNS (SP- 11299) MAY BE REDUCED TO $36" \times 36"$ ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 W/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

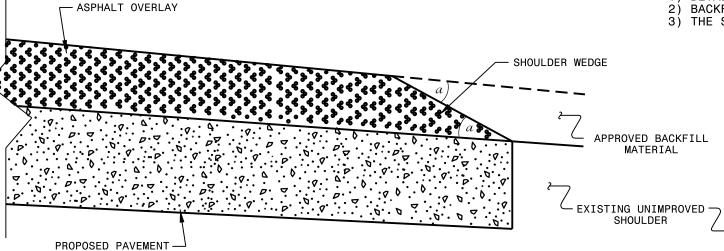
LEGEND ► STATIONARY SIGN → DIRECTION OF TRAFFIC FLOW



RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

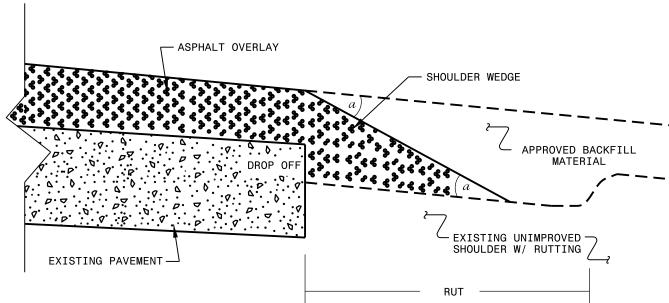
NOTES:

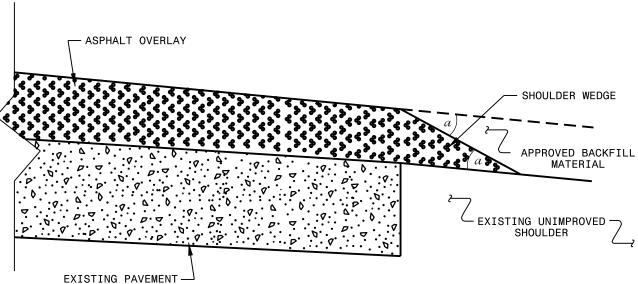
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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 ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT e 919-707-6950 FAX 919-250-41

SHOULDER WEDGE **DETAILS**

ORIGINAL BY:_	T.SPELL DATE:	7-19-11
MODIFIED BY:	DATE:	10/16/12
CHECKED BY:	DATE:	
FILE SPEC : s	usr/details/stand/shoulderwedg	edetail dgn

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)