

PROJECT REFERENCE NO. SHEET NO.

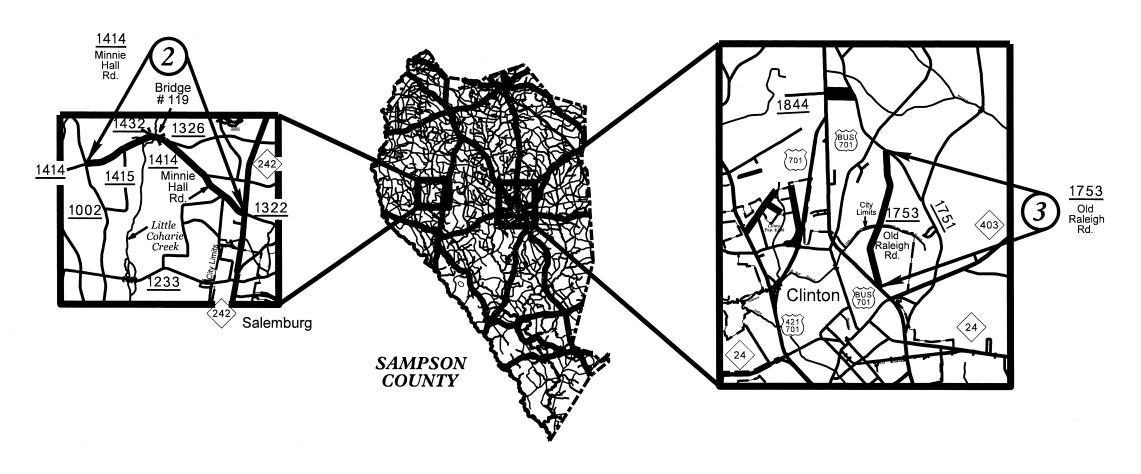


SAMPSON COUNTY

LOCATION:

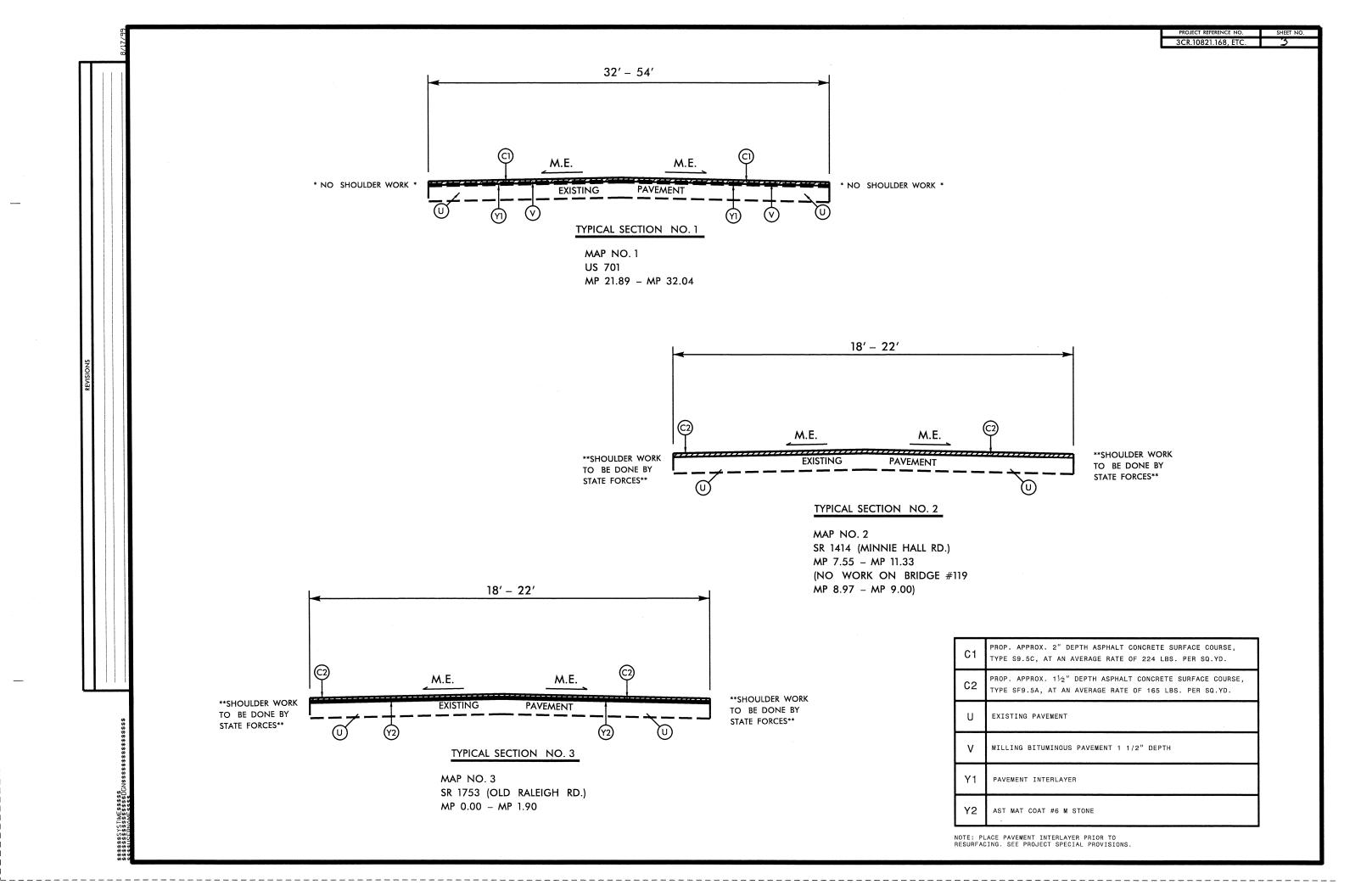
2 SECTIONS OF SECONDARY ROADS

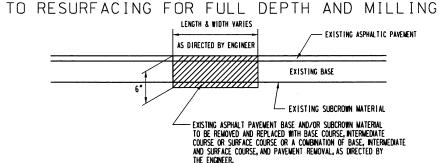
TYPE OF WORK: RESURFACING



PROJ	ECT LENGTH
PRIMARY	SECONDARY
3CR.10821.168	3CR.20821.168
$MAP \ NO. 1 = 10.15 \ MI.$	$MAP \ NO. 2 = 3.78 \ MI.$ $MAP \ NO. 3 = 1.90 \ MI.$
PRIMARY SUB-TOTAL = 10.15 MI.	SECONDARY SUB-TOTAL = 5.68 MI.
TOTAL PROJEC	T LENGTH = 15.83 MI.

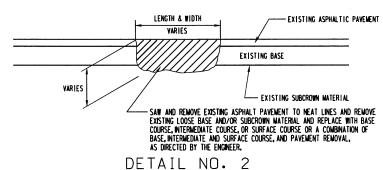
MAPS N.T.S.

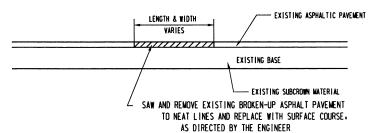




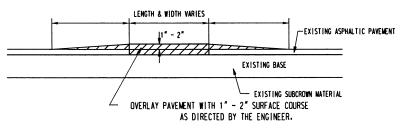
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR

DETAIL NO. 1

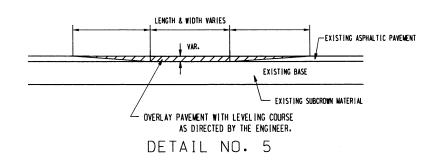


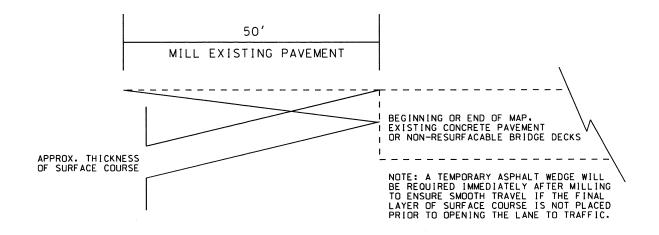


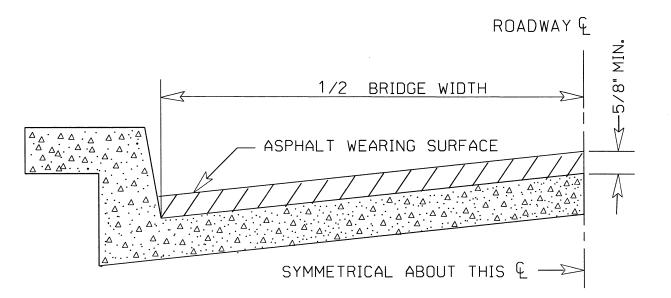
DETAIL NO. 3



DETAIL NO. 4





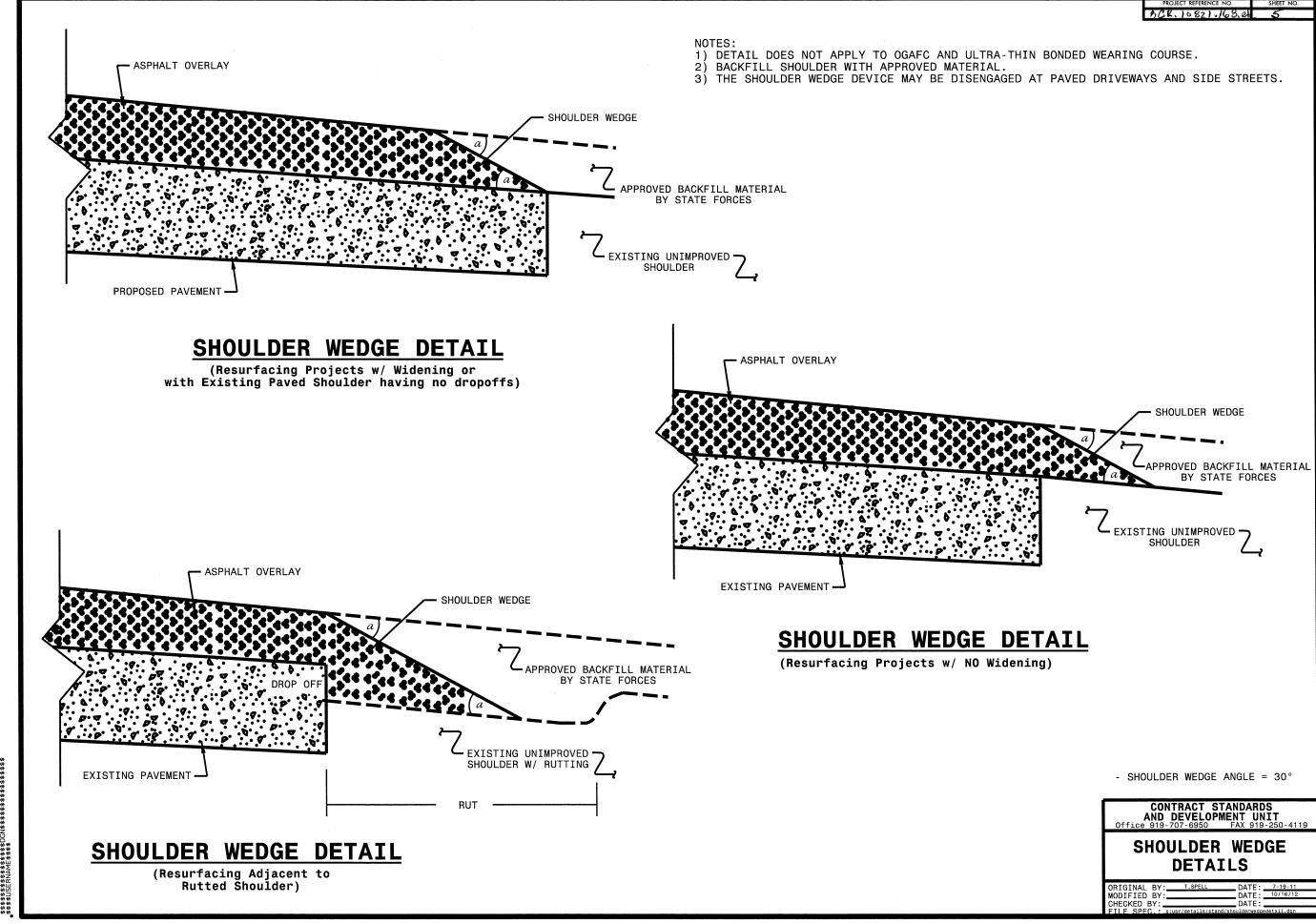


BRIDGE HALF TYPICAL SECTION

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 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

pson County/DETAILS/3CR.10821.168, ETC._DETAIL



\$\$\$\$\$\$\$XYXTIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DGN\$\$\$ \$\$\$\$USERNAME\$\$\$

PROJECT REFERENCE NO. 3CR.10821.168, ETC

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

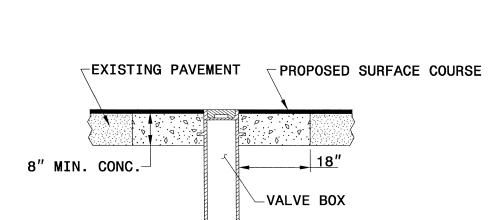
MANHOLE

ENGLISH AND VALVE DETAIL **BOX** DRAWING **ADJUSTMENTS**

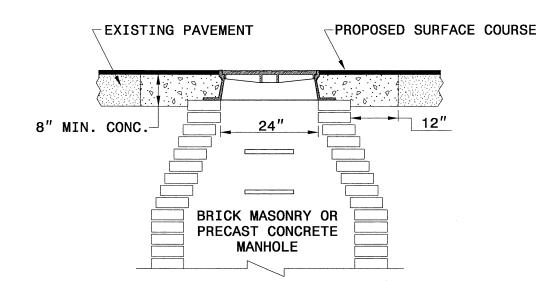
SHEET 1 OF 1 840D55

GENERAL NOTES:

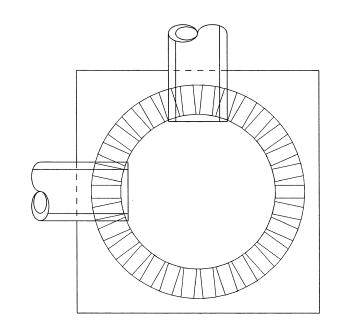
- 1. USE RAPID SET GROUT, MORTAR, OR CONCRETE WITH A MINIMUM COMPRESSIVE STRENGHT OF 4000 PSI.
- 2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
- 3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
- 4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
- 5. MIX MORTAR TO NCDOT SPECIFICATIONS. 6. MORTAR JOINTS $\frac{1}{2}$ " +/- $\frac{1}{8}$ "



VALVE BOX CONCRETE ENCASEMENT



MANHOLE CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

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

ADJUSTMENTS BOX VALVE DETAIL ENGLISH AND MANHOLE

SHEET 1 OF 1 840D55

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

SEE PLATE FOR TITLE

SHEET NO.	TOTAL NO.
7	
	SHEET NO.

SUMMARY OF QUANTITIES

PROJECT	ROJECT COUNTY MAP ROUTE		ROUTE	DESCRIPTION	ТҮР	LANES	LANE TYPE	SURFACE TESTING	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	INC. STONE BASE	1 1/2" MILLING	l	I	SURFACE COURSE, SF9.5A	LEVELING COURSE, SF9.5A	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT (FULL DEPTH)	AST, MATCOAT, #6M STONE	PATCH EXISTING PAVEMENT (MILL)	PAVEMENT INTERLAYER	1	ADJ. OF METER OR VALVE BOX
NO		NO			NO			REQUIRED		MI	FT	TONS	SY	SY	TONS	TONS	TONS	TON	TON	SY	TON	SY	EA	EA
3CR.108211.168				FROM US 701 BUS TO SR 1724 (KENAN WEEKS RD)	1	2	2WU	NO	NO	10.15	32-54	50	199,756		24,250			1,431	75		150	195,838.50		
TOTAL FOR PR	OJ NO. 3CI	R.1082	211.168	FROM SR 1002 (DUN N RD.) TO NC						10.15		50	199,756		24,250			1,431	75		150	195,838.50		
3CR.208211.168	Sampson	n 2	SR 1414	242 (SALEMBURG HWY) FROM US 701 BUS TO SR 1751 (H. B.	2	2	2WU	NO	NO	3.78	18-22	100		244		4,250	100	291	20					-
3CR.208211.168			SR 1753	LEWIS RD.)	3	2	2WU	NO	NO	1.90	18-22	100				1,750	20	118	20	20,064			4	3
TOTAL FOR PR	TOTAL FOR PROJ NO. 3CR.208211.168				Ш		<u> </u>			5.68		200		244	<u> </u>	6,000	120	409	40	20,064		<u> </u>	4	3
GRAND TOTAL										15.83		250	199,756	244	24,250	6,000	120	1,840	115	20,064	150	195,838.50	4	3

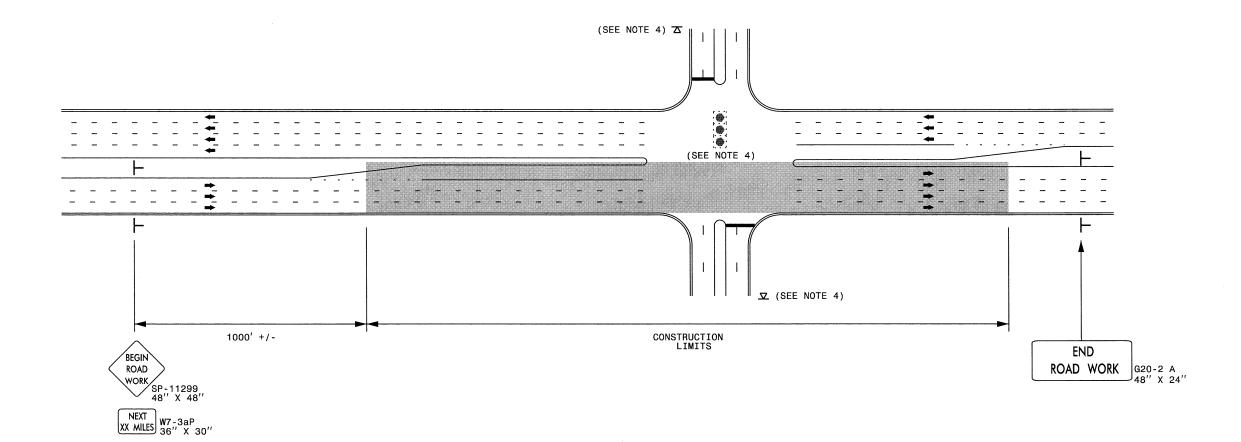
THERMOPLASTIC AND PAINT QUANTITIES

	I	l			Т	Ι	ПП			4413000000-E	4457000000-N	4685000000-E	4686000000-E	****	4700000000-E	4710000000-E	4721000000-E	4725000000-E					
PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	TYP	LANES	LANE	LENGTH	WIDTH	WORK ZONE	TEMPORARY	4" X 90 M	4" X 120 M	4" X 120 M	12" X 90 M	24" X 120 M	THERMO MSG	THERMO LT	THERMO STR	THERMO RT	THERMO STR &		
	İ						TYPE			ADVANCE/GEN.	TRAFFIC	WHITE	WHITE	YELLOW	YELLOW	WHITE	SCHOOL 120 M	ARROW 90	ARROW 90 M	ARROW 90	RT ARROW 90		
										WARNING	CONTROL	THERMO	THERMO	THERMO	THERMO	THERMO		М		М	м		
										SIGNING													
NO		NO			NO					SF	LS	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA		
				FROM US 701 BUS TO SR 1724																			
3CR.108211.168	Sampson	1	US 701	(KENAN WEEKS RD)	1	2	2WU	10.15	32-54	1,152	0.64	107,163	721	59,907	496	197	12	22	15	1	3		
TOTAL COR DI	TOTAL FOR PROJ NO. 3CR.108211.168							10.15		1,152	0.64	107,163	721	59,907	496	197	12	22	15	1	3		
TOTALTORF	103 110. 301	10021	1.100										60,	628				41					
				FROM SR 1002 (DUN N RD.) TO NC																			
3CR.208211.168	Sampson	2	SR 1414	242 (SALEMBURG HWY)	2	2	2WU	3.78	22	432	0.24	40,020		24,948									
				FROM US 701 BUS TO SR 1751 (H. B.																			
3CR.208211.168	Sampson	3	SR 1753	LEWIS RD.)	3	2	2WU	1.90	18	224	0.12	39,600		40,130									
TOTAL FOR P	OLNO 3CE	20821	1 168					5.68		656	0	79,620		65,078					<u> </u>				
IOIALFORF	103 140. 3CF		1.100										65,	078									
	DAND TOTA							15.83		1,808	1	186,783	721	124,985	496	197	12	22	15	1	3		
	GRAND TOTAL												125	,706					4	41			

									WIDTH	481000	00000-E	4825000000-E	4835000000-E	4840000000-N PAINT MSG		484500	00000-N		4900000000-N	490500	00000-N
PROJECT CO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	TYPE	LENGTH		4" WHITE	4" YELLOW	12" YELLOW	24" WHITE		PAINT LT	PAINT STR	PAINT RT	PAINT STR & RT	T YELLOW &	SNOW	SNOW
										PAINT	PAINT	PAINT	PAINT	SCHOOL	ARROW	ARROW	ARROW	ARROW	YELLOW MARKERS	PLOWABLE MARKERS (Y/Y)	PLOWABLE MARKERS (C/R)
NO		NO			NO					LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA
				FROM US 701 BUS TO SR 1724																	
3CR.108211.168	Sampson	1	US 701	(KENAN WEEKS RD)	1	2	2WU	10.15	32	107,981	60,403	496	197	12	22	15	1	3		716	50
TOTAL FOR D	TOTAL FOR PROJ NO. 3CR.108211.168		11 160					10.15		107,981	60,403	496	197	12	22	15	1	3		716	50
IOTAL FOR P	KOJ NO. SCI	1.1U0Z	11.100							168	,384				41					766	
				FROM SR 1002 (DUN N RD.) TO NC																	
3CR.208211.168	Sampson	2	SR 1414	242 (SALEMBURG HWY)	2	2	2WU	3.78	18-22										250		
		T		FROM US 701 BUS TO SR 1751 (H. B.																-	
3CR.208211.168	Sampson	3	SR 1753	LEWIS RD.)	3	2	2WU	1.90	18-22										126		
TOTAL FOR P	DOLNO 201	2002	11 160					5.68											376		
TOTAL FOR P	NO3 140. 3C	1.2002	11.100																		
						•	•														
	DAND TOTA			-				15.83		107,981	60,403	496	197	12	22	15	1	3	376	716	50
GRAND TOTAL				T					168	3,384					41				766		

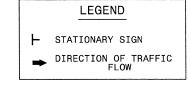
PROJ. REFERENCE NO. SHEET NO. 3CR.10821.168, ETC.

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.





RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

\TMU\WZTC\Resurfacing\2013Resurfacing\2013Documents\New_Procedures_05_09_2013\Resurfacing_Ad

PROJECT REFERENCE NO. SHEET NO. 3CR.10821.168, ETC.

STATE OF

NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. MULTI-LANE WIDTH "SCHOOL 24" WHITE TRANSVERSE BAND MIN. 10, 12 7'-6" 14'-2" MIN. TO 22'-6" MAX. CENTER TEXT IN LANES 24" WHITE TRANSVERSE BAND LETTER HEIGHT = 10' MIN. LETTER WIDTH = 20" ENGI SYMBOLS PAVEMENT SPACING = 10" MIN./30" MAX. (USE EQUAL SPACING BETWEEN LETTERS) NOTE: THE TWO-LANE PAVEMENT MARKING DIMENSIONS OF "SCHOOL" SHOWN IN PART 7 OF THE MUTCD MAY ALSO BE USED. RAILROAD RXR SYMBOL AND

24" WHITE TRANSVERSE BAND - O.C TO 11'-4" MAX CENTER TEXT IN LANE 24" WHITE TRANSVERSE BAND LETTER HEIGHT = 8'-4" LETTER WIDTH = 16" SPACING = 4" MIN./8" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

"SCHOOL

16"

7'-0"

1-12 STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

MESSAGES

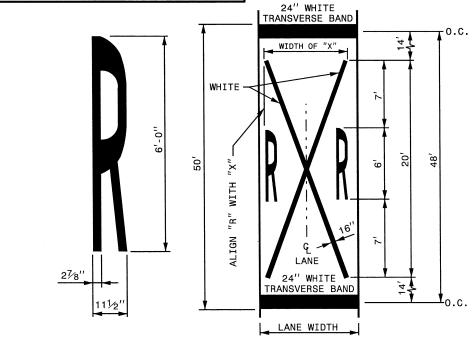
ENGLISH DETAIL DRAWING FOR MARKINGS WORD PAVEMENT SYMBOLS AND W

"X" WIDTH (FEET) (FEET) 8'≤W≤9' 7′ 9'<W≤12' 8' W>12' 10'

WIDTH OF

LANE

SINGLE LANE WIDTH



GENERAL NOTES:

- 1- THE SCHOOL PAVEMENT MARKING CONSISTS OF SIX (6) CHARACTERS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.10 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- 2- PAVEMENT MARKING ADVANCE OF A HIGHWAY-RAIL CROSSING SHALL CONSIST OF TWO (2) CHARACTERS AND TWO (2) 16" LINES (FORMING AN X) WHICH ARE PAID FOR UNDER TWO SEPARATE PAY ITEMS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.11 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

REVISED 9/14/11 SHEET 3 OF 8

1205D08

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: J. HOWERTON MODIFIED BY: __ DATE: ____10/5/11 __ DATE: ___

26-001-20||14:4| S:\Contracts\Contracts\S \$\$\$\$USERNAME\$\$\$\$

REVISED 9/14/11 SHEET 3 OF 8 1205D08

TAIL

MARKINGS

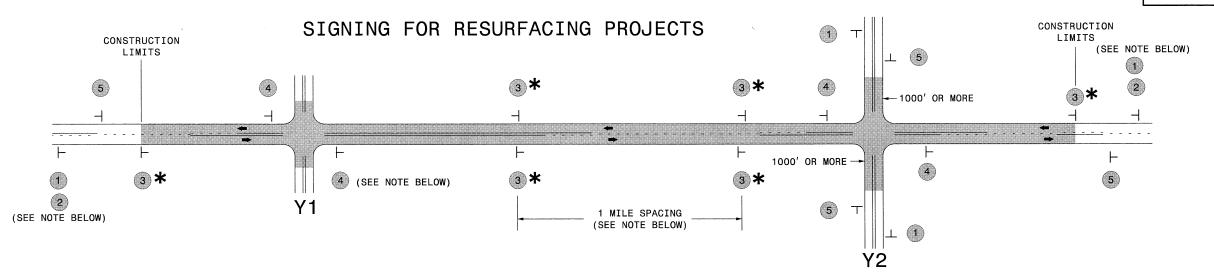
FOR

WORD

MESSAGES

PROJ. REFERENCE NO. SHEET NO.

3CR.10821.168, ETC.



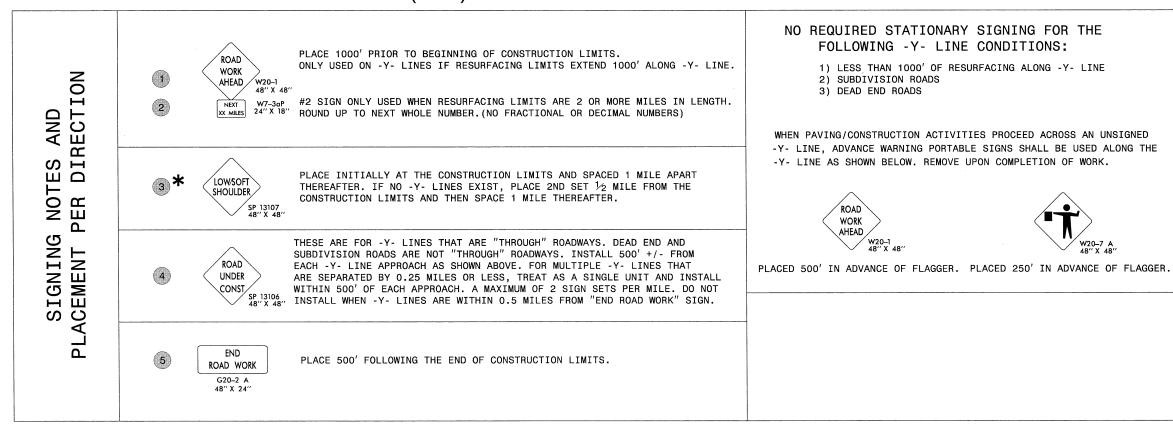
LEGEND

├ STATIONARY SIGN

◆ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING



* 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