

WBS NO: 2027CPT.01.19.10081

CONTRACT: DA00709

STATE OF NORTH CAROLINA

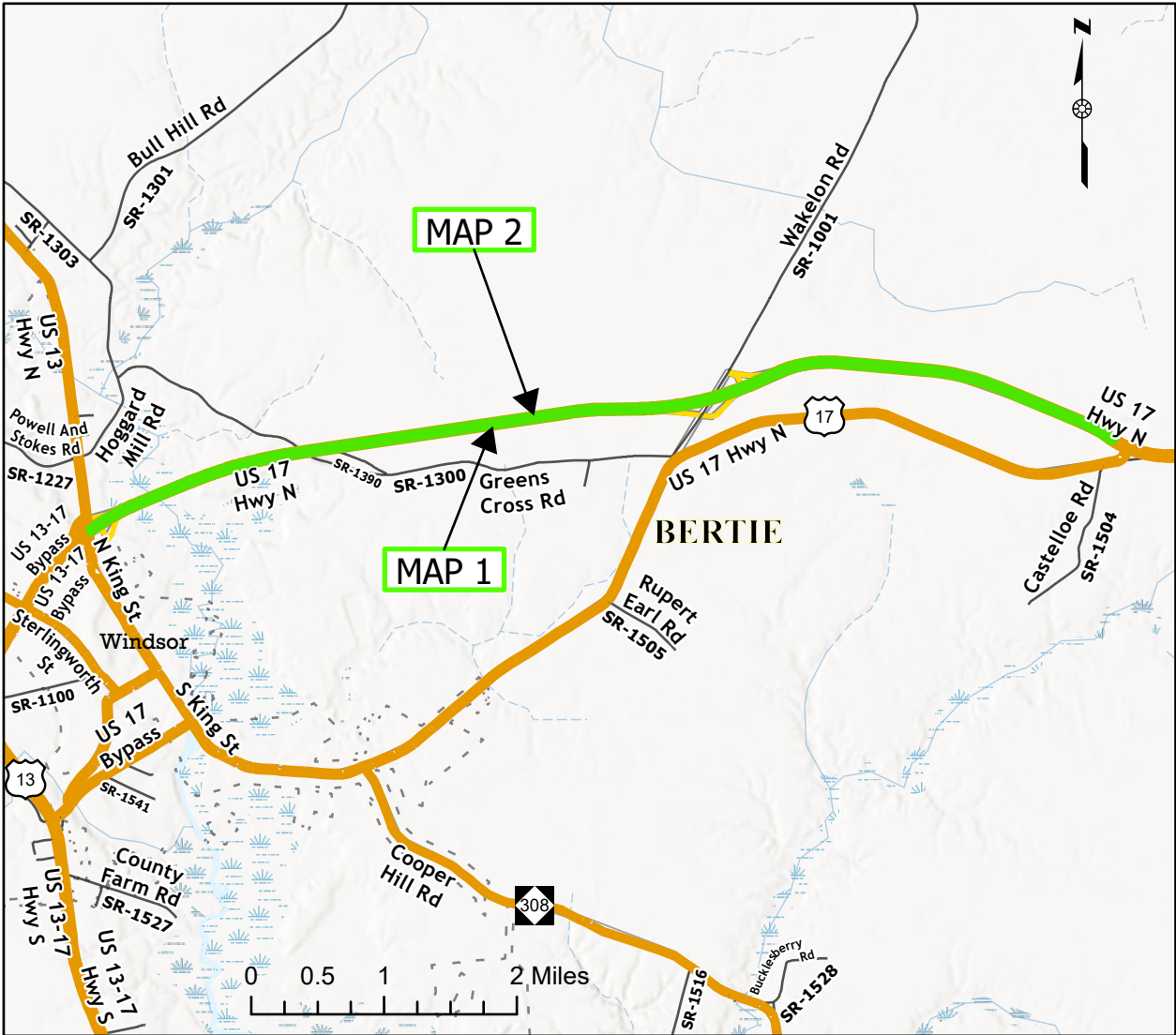
DIVISION OF HIGHWAYS

BERTIE

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.01.19.10081	1
STATE PROJECT NUMBER		DESCRIPTION
2027CPT.01.19.10081		P.E., CONST.

TYPE OF WORK: FINE MILLING & MICROSURFACING SINGLE COURSE, TYPE III

MAP	ROUTE	FROM	TO
01	US 17 BYP N	Bridge #167	End of Divided Highway
02	US 17 BYP S	Begin Divided Highway	Bridge #168



PROJECT LENGTH

MAP	MILES
01	6.47
02	6.49

Prepared in the Office of:
DIVISION OF HIGHWAYS
113 AIRPORT DR., EDENTON, NC 27932

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DIVISION PROJECT TEAM LEAD

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DIVISION DESIGN ENGINEER



PAVEMENT SCHEDULE

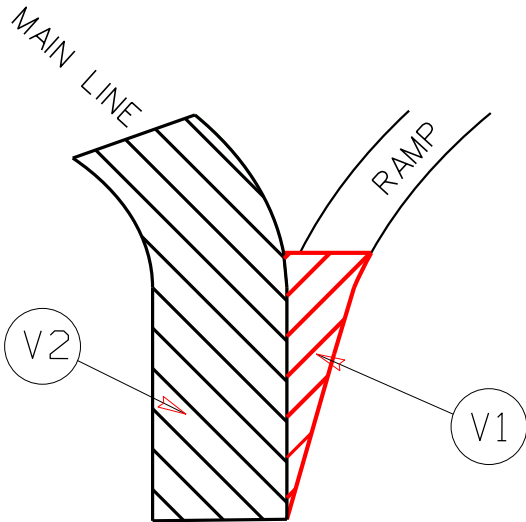
C1	PROP. APPROX. 0.375" MICROSURFACING, TYPE III AT AT AN AVERAGE RATE OF 20-24 LBS. PER SQ. YD.
V1	INCIDENTAL MILLING, 3/4" IN DEPTH
V2	FINE MILLING OF ASPHALT PAVEMENT, 3/4" IN DEPTH
U	EXISTING PAVEMENT

NOTES:

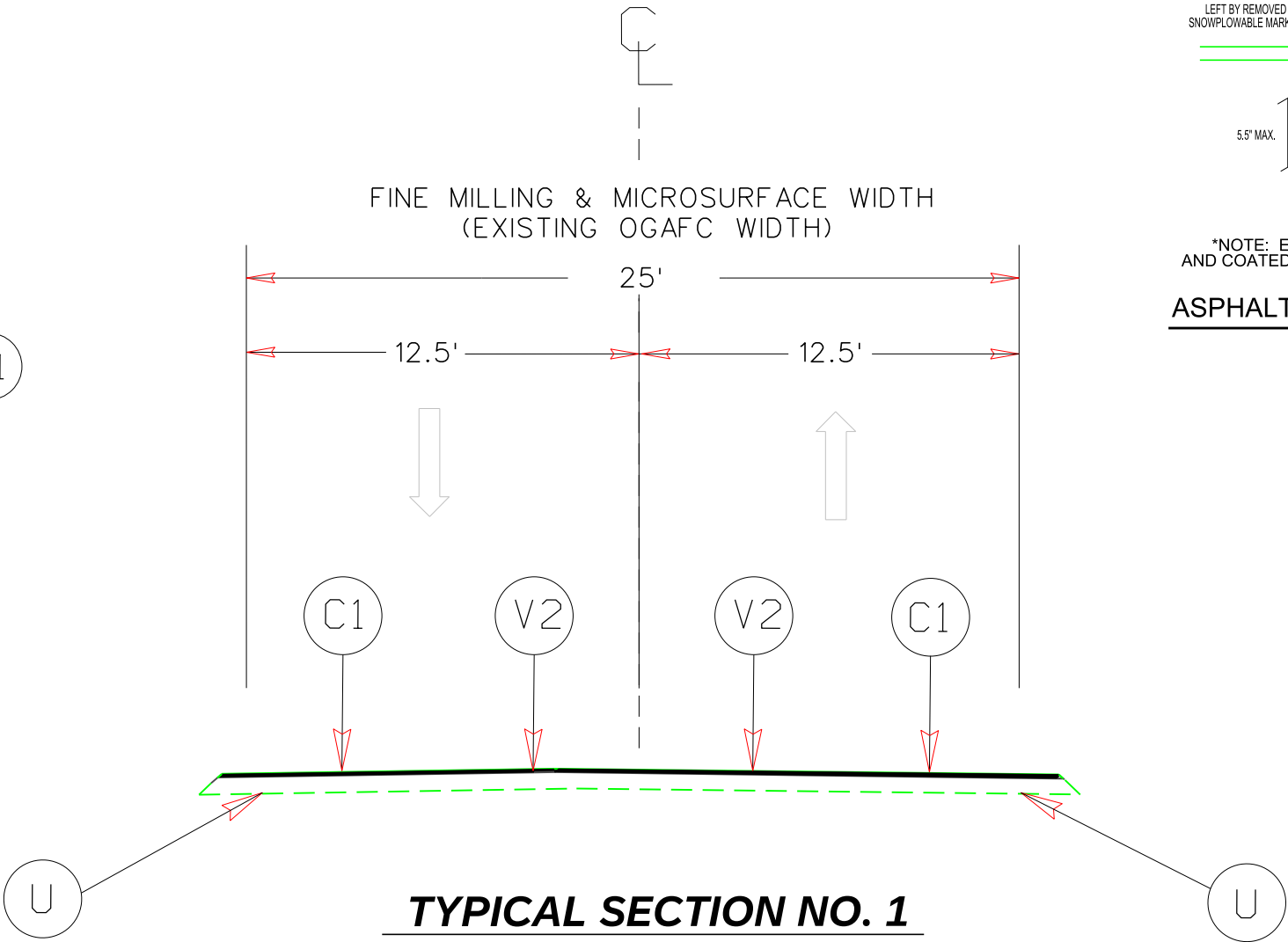
PROJECT REFERENCE NO.	SHEET NO.
2027CPT.01.19.10081	2

- * ALL INTERSECTING ROADS ARE TO BE MICROSURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- * FINE MILLING & 0.375" OF MICROSURFACING SINGLE COURSE, TYPE III IS TO BE APPLIED THE FULL WIDTH OF EXISTING OPEN GRADED FRICTION COURSE (TRAVEL LANES).
- * EXISTING SNOWPLOWABLE PAVEMENT MARKERS ARE TO BE REMOVED BEFORE FINE MILLING. COST OF THIS OPERATION SHALL BE INCLUDED IN THE UNIT PRICE FOR 'REMOVAL OF EXISTING SNOWPLOWABLE DELINEATION'
- * DEPRESSIONS IN PAVEMENT THAT MAY REMAIN AFTER REMOVAL OF SNOWPLOWABLE MARKERS AND FINE MILLING SHALL BE THOROUGHLY CLEANED OF ALL DEBRIS, COATED WITH AN APPROVED TACK MATERIAL, AND PATCHED USING AN APPROVED PLANT MIX ASPHALT. COST OF THIS OPERATION SHALL BE INCLUDED IN THE UNIT PRICE FOR 'ASPHALT PLANT MIX, PAVEMENT REPAIR.'
- * IRREGULAR AREAS ARE TO BE FINE MILLED TO MATCH SURFACE TEXTURE OF MAIN LINE FINE MILLING, PRIOR TO OVERLAY WITH MICROSURFACING. COST OF THIS OPERATION SHALL BE INCLUDED IN THE UNIT PRICE FOR 'INCIDENTAL MILLING.' (SEE DETAIL 1 FOR 'INCIDENTAL MILLING' DETERMINATION)

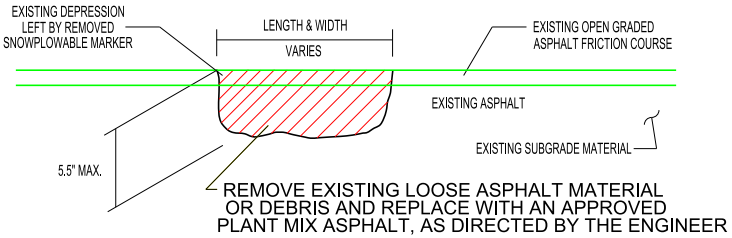
INCIDENTAL MILLING OF RAMPS



DETAIL 1



TYPICAL SECTION NO. 1
USE WITH MAPS 1 - 2



*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

ASPHALT PLANT MIX, PAVEMENT REPAIR DETAIL

DETAIL 2

PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.01.19.10081	3	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE					0000100000-N	1330000000-E	1575000000-E	1693000000-E	1891000000-E	1891000000-E
								LENGTH	WIDTH	BEGIN MP	END MP	MOBILIZATION	INCIDENTAL MILLING	ASP FOR PLANT MIX	ASPH PLT MIX PVMT REPAIR	GENERIC PAVING ITEM MICROSURFACING SINGLE COURSE, TYPE III	GENERIC PAVING ITEM FINE MILLING (3/4")
								MI	FT			LS	SY	TONS	TONS	SY	SY
2027CPT.01.19.10081	Bertie	1	US-17 BYP N	FROM BRIDGE #167 TO END DIVIDED HIGHWAY	1	2	2WD	6.470	25	2.080	8.550	1	4,217	1	15	99,110	94,891
2027CPT.01.19.10081	Bertie	2	US-17 BYP S	FROM BEGIN DIVIDED HIGHWAY TO BRIDGE # 168	1	2	2WD	6.490	25	0.100	6.590	*	4,889	1	15	100,076	95,187
TOTAL FOR PROJ NO. 2027CPT.01.19.10081								12.960				*	9,106	2	30	199,186	190,078
GRAND TOTAL								12.960				1	9,106	2	30	199,186	190,078

PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.01.19.10081	4	

THERMOPLASTIC AND PAINT QUANTITIES

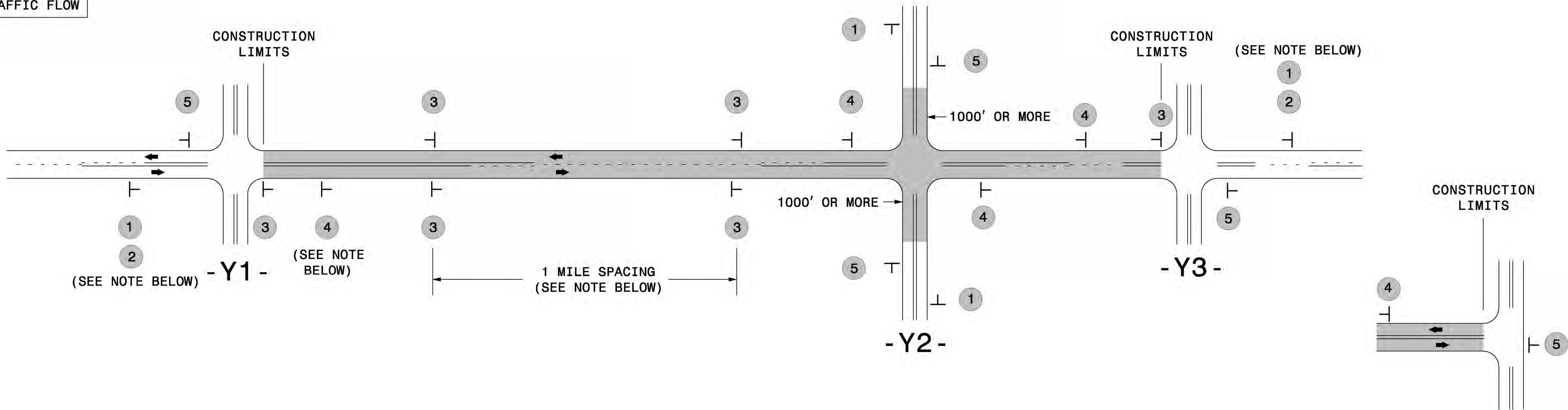
												4413000000-E	4457000000-N	4700000000-E	4725000000-E	4810000000-E		4825000000-E	4845000000-N	4890000000-E		4895000000-N	4900000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	WORK ZONE ADVANCE / GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL (SP)	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), MERGE ARROW	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING LINES (12")	PAINT PAVEMENT MARKING SYMBOL (MERGE ARROW)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (6", 65 MILS) WHITE	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (6", 65 MILS) YELLOW	GENERIC PAVEMENT MARKING ITEM REMOVAL OF SNOWPLOWABLE DELINEATION	PERMANENT RAISED PAVEMENT MARKERS
								MI	FT			SF	LS	LF	EA	LF	LF	LF	EA	LF	LF	EA	EA
2027CPT.01.19.10081	Bertie	1	US-17 BYP N	FROM BRIDGE #167 TO END DIVIDED HIGHWAY	1	2	2WD	6.47	25	2.08	8.55	310	1	1,559	3	85,404	68,323	1,559	3	42,702	34,162	427	427
2027CPT.01.19.10081	Bertie	2	US-17 BYP S	FROM BEGIN DIVIDED HIGHWAY TO BRIDGE # 168	1	2	2WD	6.49	25	0.1	6.59	310	*	1,371	3	85,668	68,534	1,371	3	42,834	34,267	428	428
TOTAL FOR PROJ NO. 2027CPT.01.19.10081								12.96				620	*	2,930	6	171,072	136,857	2,930	6	85,536	68,429	855	855
																307,929				153,965			
GRAND TOTAL								12.96				620	1	2,930	6	171,072	136,857	2,930	6	85,536	68,429	855	855
																	307,929				153,965		

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 2 ROAD WORK AHEAD W20-1 48" X 48" NEXT XX MILES W7-3aP 24" X 18" PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. #2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)	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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.
	3 LOW/SOFT SHOULDER SP 13107 48" X 48" - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4 ROAD UNDER CONST SP 13106 48" X 48" - 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	5 END ROAD WORK G20-2 A 48" X 24" PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	
	THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.	
LESS 2 MILES	FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY
RESURFACING

ROAD
WORK
AHEAD

W20-1
48" X 48"

PLACED 500' IN ADVANCE
OF FLAGGER.

W20-7 A
48" X 48"

PLACED 250' IN ADVANCE
OF FLAGGER.

AD