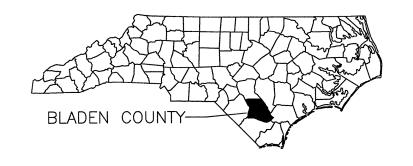
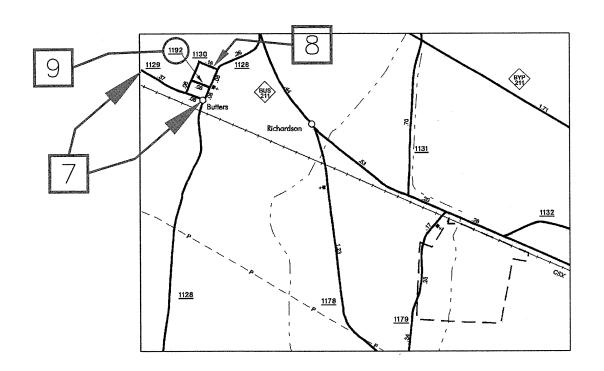
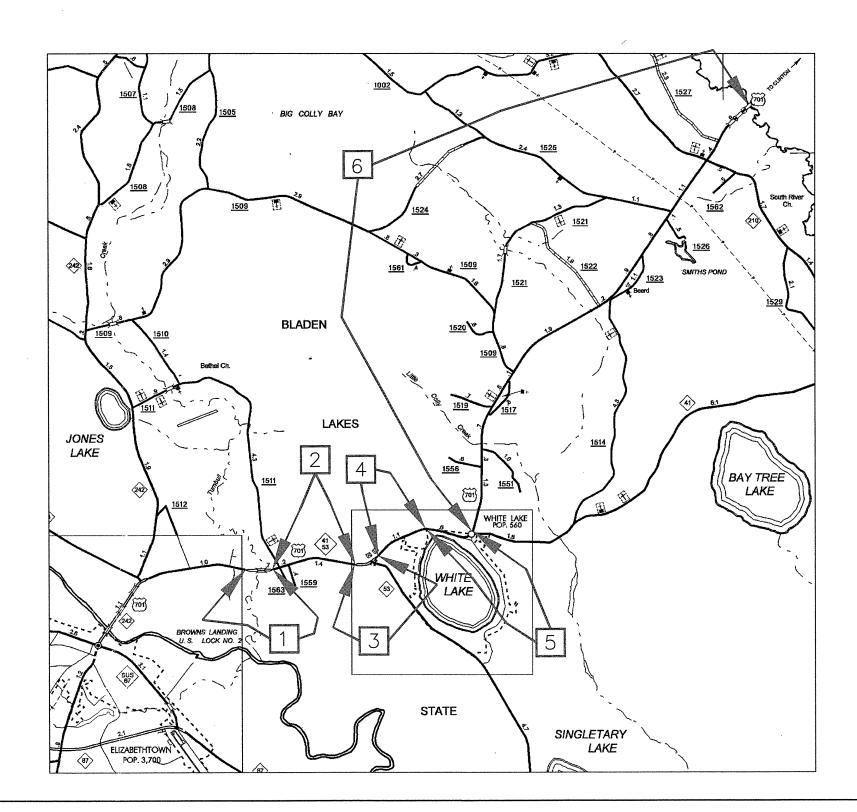
PROJECT REFERENCE NO. SHEET NO. 6CR.10091.71, ETC. 1

<u>RESURFACING MAPS - BLADEN COUNTY</u>



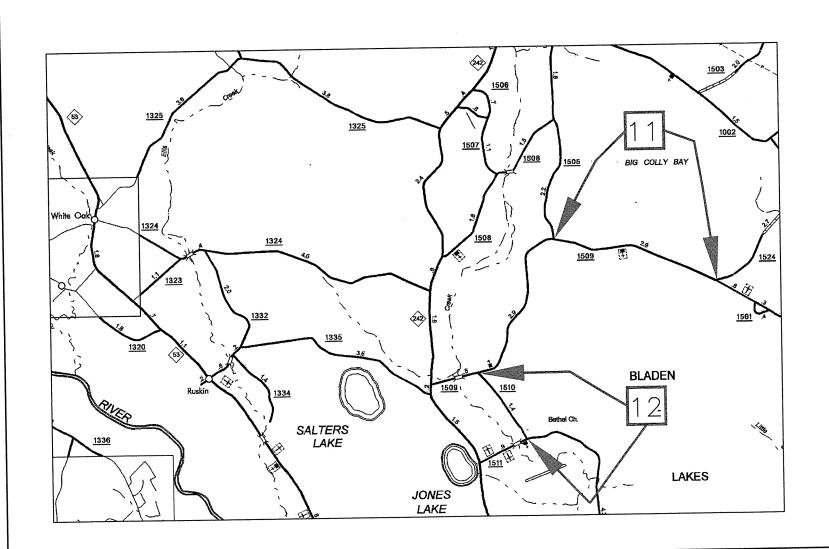


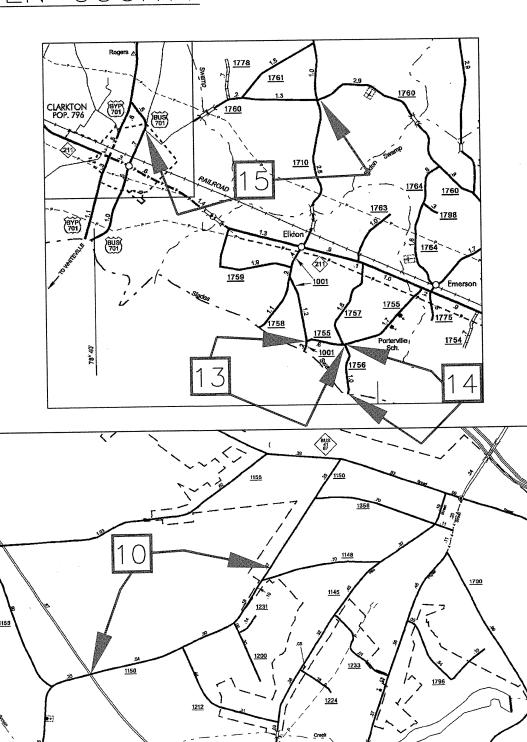




<u>resurfacing maps - bladen county</u>

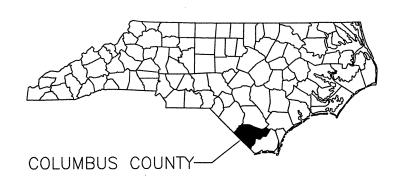




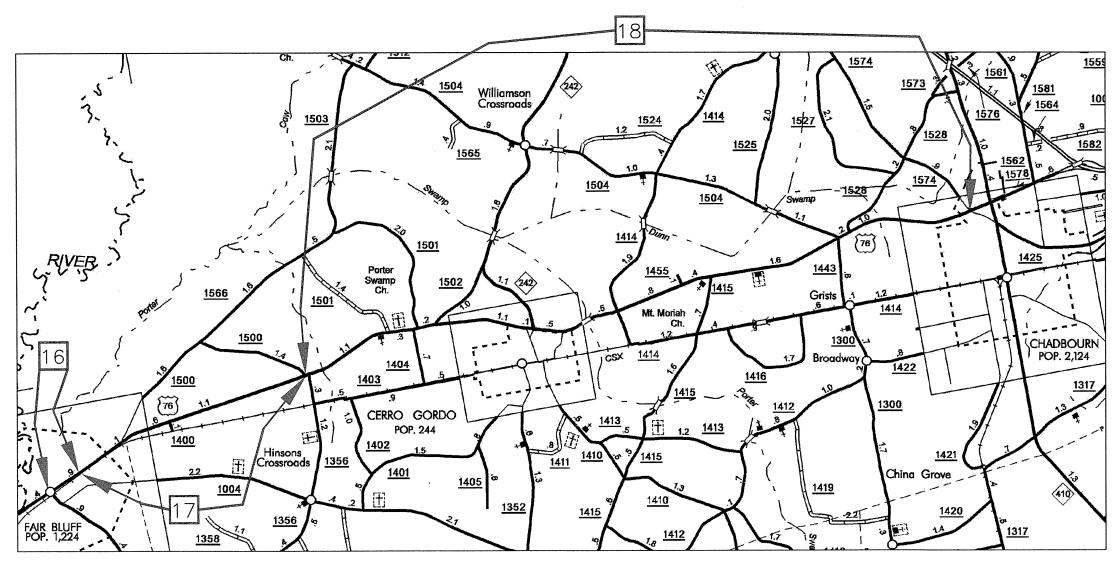


PROJECT REFERENCE NO. SHEET NO. 6CR.10091.71, ETC. 3

<u>RESURFACING MAPS - COLUMBUS COUNTY</u>



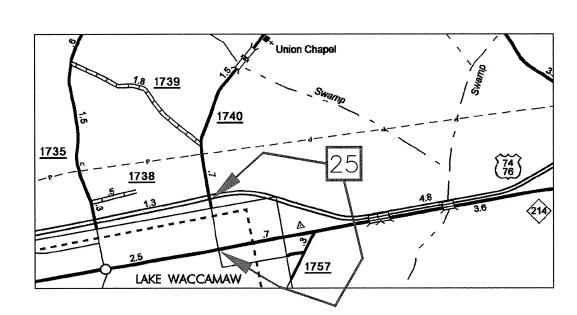


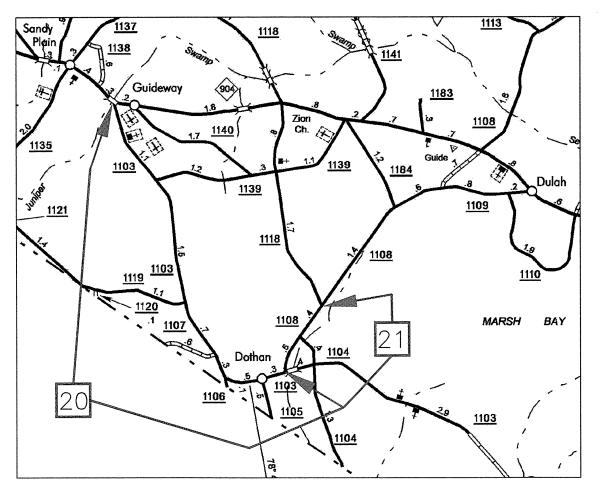


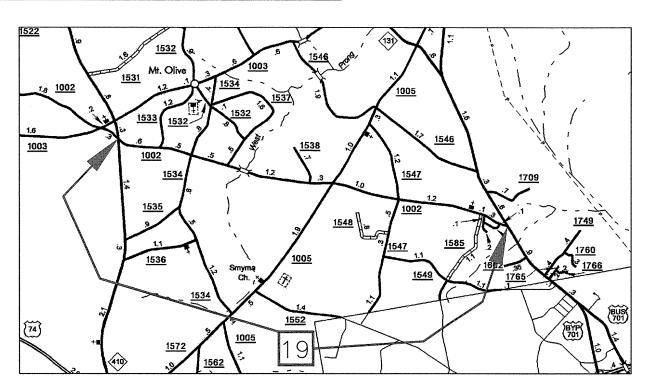
PROJECT REFERENCE NO. SHEET NO. 6CR.10091.71, ETC. 4

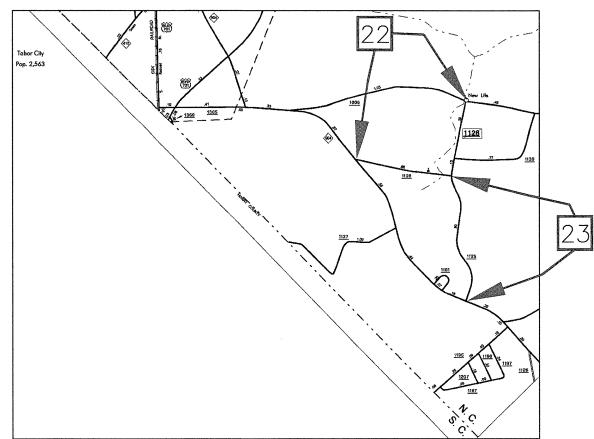
RESURFACING MAPS - COLUMBUS COUNTY

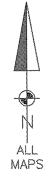




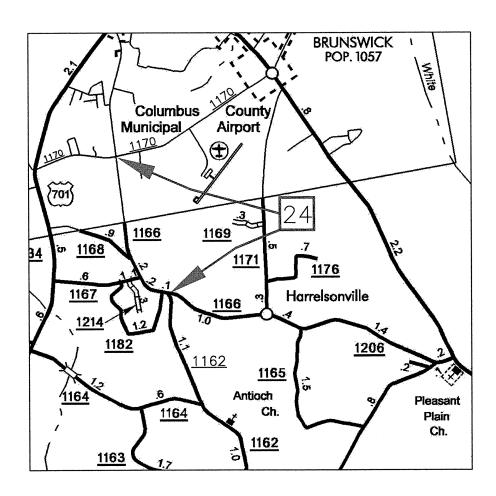


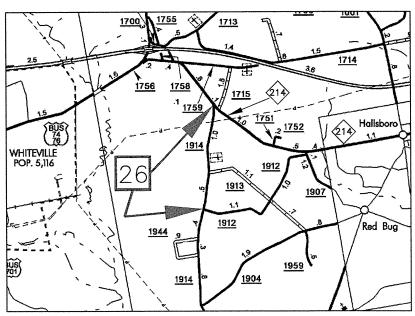


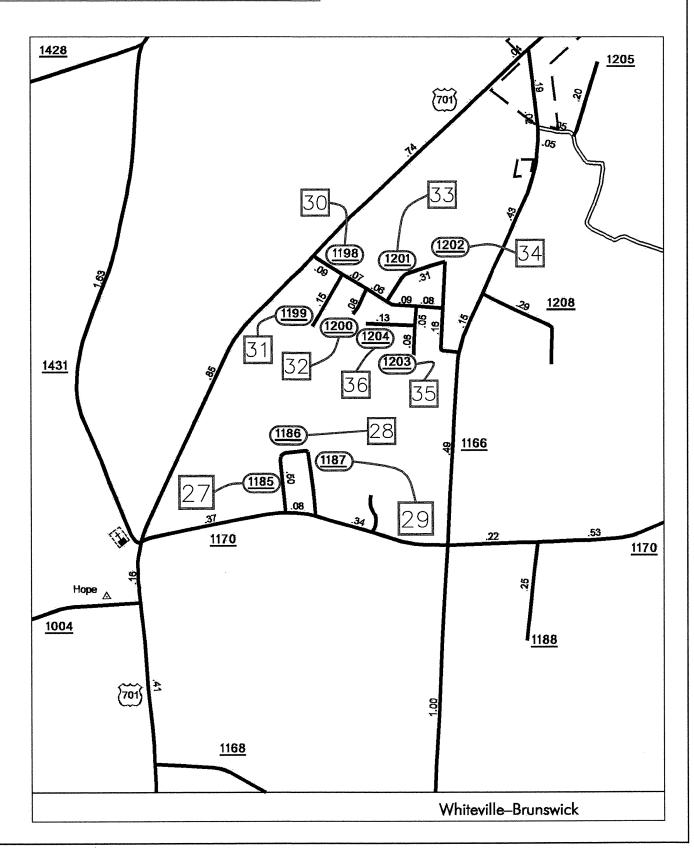




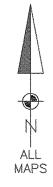
<u>RESURFACING MAPS - COLUMBUS COUNTY</u>

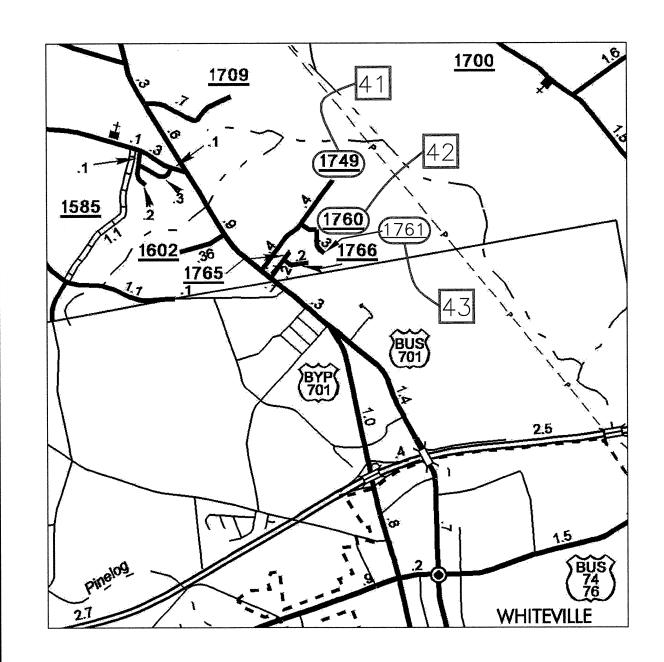


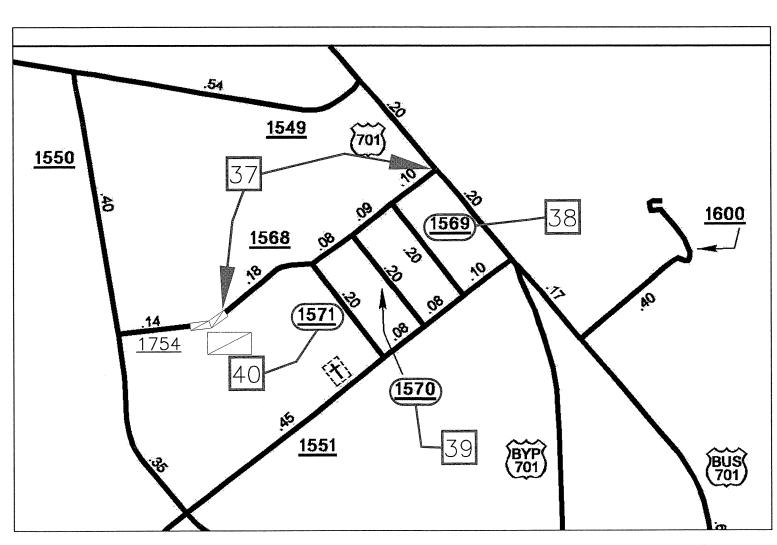


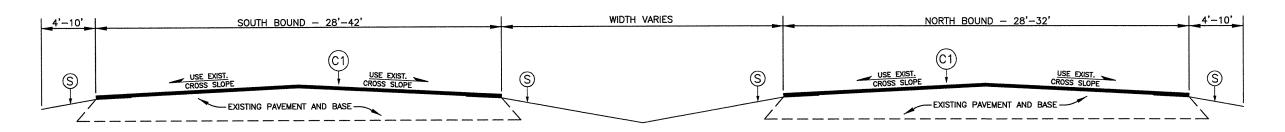


RESURFACING MAPS - COLUMBUS COUNTY





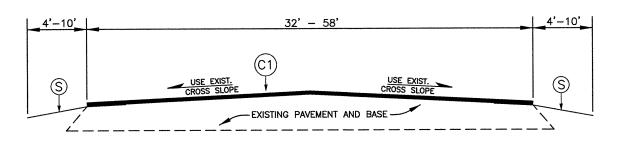




TYPICAL SECTION NO. 1

- 1. INCLUDES MILLING ON ASPHALT BRIDGE DECKS & BRIDGE APPROACHES,
- AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.

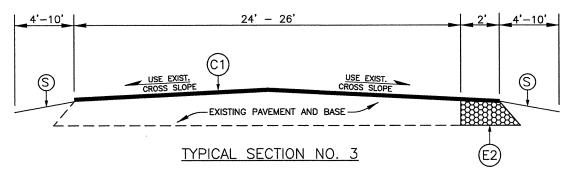
 2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE—INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.



TYPICAL SECTION NO. 2

NOTE:

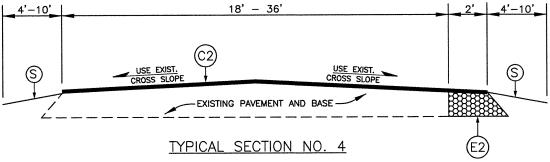
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE—INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.



NOTES:

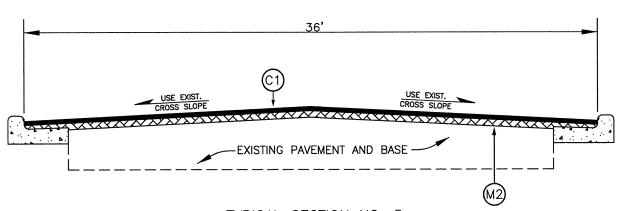
- INCLUDES 2' WIDENING ON THE INSIDE RADIUS OF ALL CURVES, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1.
 INCLUDES MILLING ON ASPHALT BRIDGE DECKS & BRIDGE APPROACHES,
- AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.

 3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.



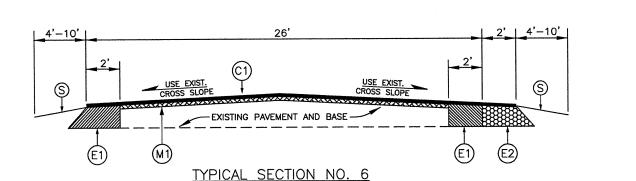
- INCLUDES 2' WIDENING ON THE INSIDE RADIUS OF ALL CURVES, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1.
 INCLUDES MILLING ON ASPHALT BRIDGE DECKS & BRIDGE APPROACHES,
- AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.

 3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE—INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.



TYPICAL SECTION NO. 5

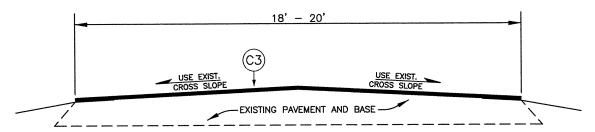
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE—INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.



NOTES:

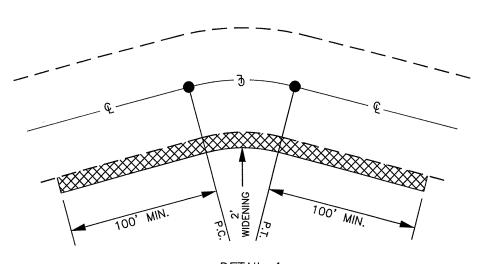
1. EXISTING DITCHES WILL NOT BE RELOCATED, UNLESS DIRECTED BY ENGINEER. INCLUDES ADDITIONAL 2' WIDENING ON THE INSIDE RADIUS OF ALL CURVES, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1.

2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.

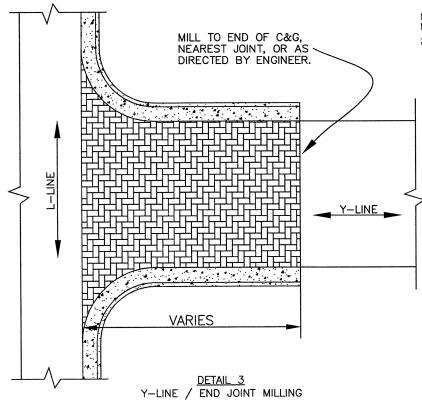


TYPICAL SECTION NO. 8

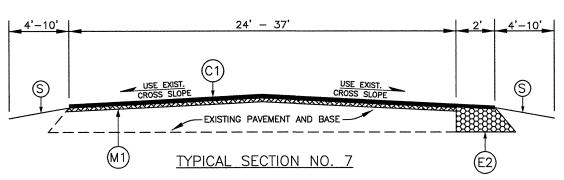
INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE—INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.



DETAIL 1 INSIDE CURVE WIDENING

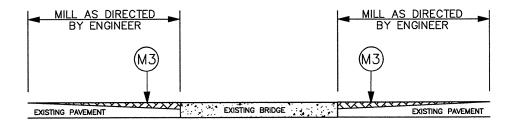


NOTE: INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH DETAIL 3.



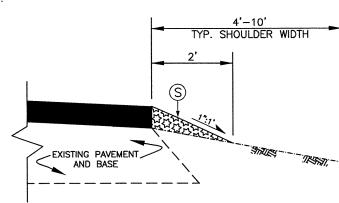
NOTES:

- INCLUDES 2' WIDENING ON THE INSIDE RADIUS OF ALL CURVES, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1.
 INCLUDES MILLING ON ASPHALT BRIDGE DECKS & BRIDGE APPROACHES, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.
 INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH
- TIE-INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.



DETAIL 2 MILLING APPROACHES

MILLING SHALL BE PERFORMED AT BRIDGES AND RAILROAD APPROACHES AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH DETAIL 2.

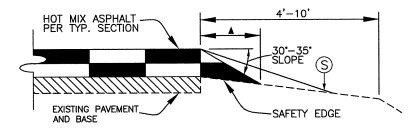


PROJECT REFERENCE NO. SHEET NO.

6CR.10091.71, ETC.

DETAIL 5 SHOULDER RECONSTRUCTION

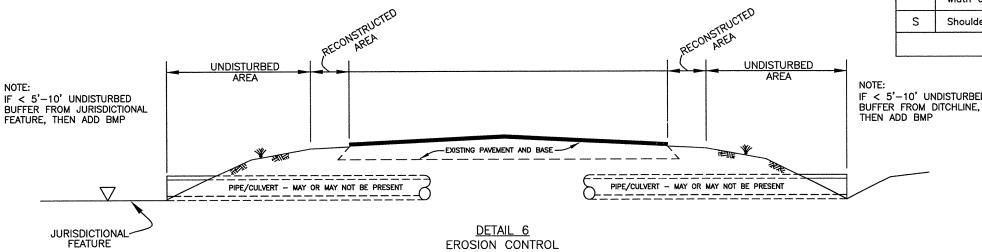
- 1. SHOULDER SHALL BE RECONSTRUCTED FROM THE EDGE OF PAVEMENT OUT TO A WIDTH OF 2', WITH A TYPICAL SLOPE OF 1" PER FOOT AWAY FROM THE ROADWAY.
- 2. THE EXISTING SHOULDER SHALL BE SCARIFIED PRIOR TO ADDING BORROW MATERIAL TO PROVIDE A GOOD BOND BETWEEN LAYERS. SHOULDER SHALL BE PROPERLY COMPACTED AFTER SOIL PLACMENT.
- 3. BORROW MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE.
- 4. A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTORDED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.
- REQUIRED BORROW MATERIAL MAY BE OBTAINED FROM WIDENING OPERATIONS WITHIN THE PROJECT LIMITS, OR FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.



DETAIL 4 SHOULDER WEDGE / SAFETY EDGE

NOTE:

- 1. SAFETY EDGE SHALL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE SHALL BE ADDED TO THE SCREED OF THE PAVING MACHINE.
- 2. SAFETY EDGE SHALL BE INCLUDED ON ALL TYPICALS EXCEPT FOR CURB & GUTTER SECTIONS, OR AS DIRECTED OTHERWISE BY ENGINEER.
- 3. SAFETY EDGE SHALL BE USED ON THE SURFACE LAYER ONLY.
- 4. SAFETY EDGE MAY BE CONSTRUCTED BY HAND WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS.
- SAFELI EDGE MAI BE CONSTRUCTED BY HAND WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS.
 THE CONSTRUCTION OF THE SAFETY EDGE, AS WELL AS ANY ADDITIONAL SITE PREPARATION OR EARTHWORK REQUIRED, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE ASPHALT CONCRETE SURFACE COURSE.



NOTES:

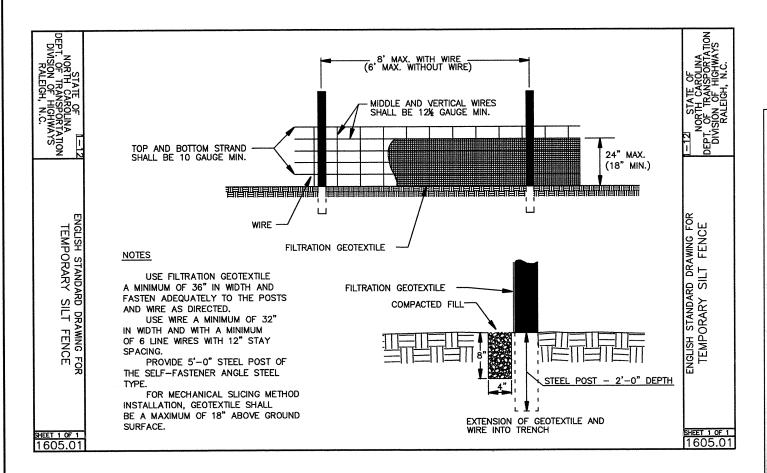
- 1. IF A 5'-10' VEGETATED, UNDISTURBED BUFFER FROM ROW, DITCHLINE, WATER FEATURE OR DRAINAGE INLET CAN BE MAINTAINED. THEN NO BMP'S NEEDED.
- 2. IF < 5'-10' UNDISTURBED BUFFER FROM ROW, DITCHLINE, WATER FEATURE OR DRAINAGE INLET, THEN ADD BMP'S.
- 3. BMP OPTIONS:
- a. MATTING MAY BE APPLIED AS SHOWN IN NCDOT STD. DWG. 1631.01 TO ESTABLISH BUFFER.
 b. IF MATTING IS NOT PRACTICAL, OR THERE IS NOT ENOUGH SHOULDER WIDTH, THEN INSTALL TEMPORARY SILT FENCE AS SHOWN IN NCDOT STD. DWG. 1605.01, AND WATTLES WITH
 - POLYACRYLAMIDE (PAM).

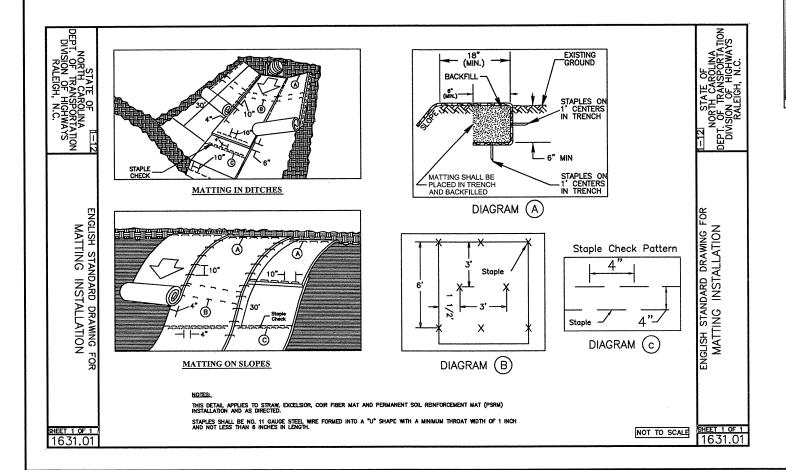
PROJECT REFERENCE NO.	SHEET NO.
6CR.10091.71, ETC.	9
—	——————————————————————————————————————

	PAVEMENT SCHEDULE
C1	Proposed approximately 1½" of Asphalt Concrete Surface Course, Type S-9.5-B, at an average rate of 168 pounds per square yard.
C2	Proposed approximately 1½" of Asphalt Concrete Surface Course, Type SF—9.5—A, at an average rate of 165 pounds per square yard.
C3	Proposed approximately 1" of Asphalt Concrete Surface Course, Type S-4.75-A, at an average rate of 100 pounds per square yard.
E1	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B—25.0—B, at an average rate of 627 pounds per square yard for standard 2' widening.
E2	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B—25.0—B, at an average rate of 627 pounds per square yard for 2' widening at inside curve radii, as Directed by the Engineer.
M1	Milling Depth 1" for the entire width of the roadway, or as Directed by the Engineer.
М2	Milling Depth 1½" for the entire width of the roadway including the Gutter Pan, or as Directed by the Engineer.
м3	Milling Depth 0" — 1½" at all Bridge and Railroad Approaches, for the entire width of the roadway, or as Directed by the Engineer.
S	Shoulder Reconstruction
	DRAWINGS NOT TO SCALE

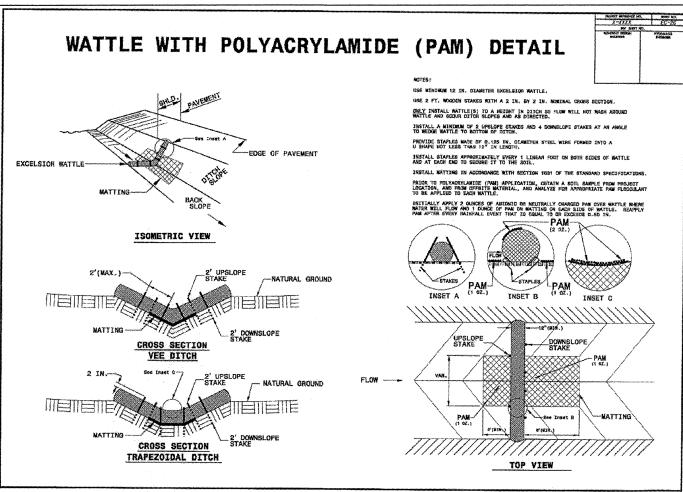
IF < 5'-10' UNDISTURBED

S		TYPICAL NO. 1	TYPICAL NO. 2	TYPICAL NO. 3	TYPICAL NO. 4	TYPICAL NO. 5	TYPICAL NO. 6	TYPICAL NO. 7	TYPICAL NO. 8
IMBC	PRIMARY					US 76-A	US 76-B	US 76-C	
COLL	SECONDARY				SR 1002, SR 1103, SR 1108, SR 1128, SR 1129, SR 1166, SR 1740 & SR 1914				SR 1185, SR 1186, SR 1187, SR 1198, SR 1199, SR 1200, SR 1201, SR 1202, SR 1203, SR 1204, SR 1568, SR 1569, SR 1570, SR 1571, SR 1749, SR 1760 & SR1761
XXX	XXXXXX	XXXXXXXXXX	XXXXXX	XXXXX	$\times \times $	XXXXX	XXXXX	XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
_		TYPICAL NO. 1	TYPICAL NO. 2	TYPICAL NO. 3	TYPICAL NO. 4	TYPICAL NO. 5	TYPICAL NO. 6	TYPICAL NO. 7	TYPICAL NO. 8
DEN	PRIMARY	US 701-A, US 701-C & US 701-E	US 701-B & US 701-D	US 701-F					
BLA	SECONDARY				SR 1150, SR 1509, SR 1510, SR 1755, SR 1756 & SR 1760				SR 1129, SR 1130 & SR 1192





	PROJECT	REFEREN	ICE	NO.	SHEET	NO.
1	6CR.10	0091.71,	ETC	:.	10	



NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.	EROSION	CONTROL	DETAIL	RW SHEET NO ROADWAY DESIGN ENGINEER	
BMP Options: Wattle or Silt Fence	/ < 5' - 10' Undisturi	bed buffer add BMP <			
	B EOP	EOP	Pipe/Culvert		
			< 5' - 10' Undis	sturbed buffer from	
< 5' - 10' Undisturbed buffer from jurisdictional featur	1		Undisturbed ditchline, add Bl		
Undisturbed Area Disturbed	Ared				
	EOP		EOP		
	LOI		Lor		
Jurisdictional Feature Disturbed A	ditchline and	f shoulders and/or front Vor backslopes are distul			
	EOP		EOP	-	,
	< 5' – 10' Undisturb	ped buffer from inle	et, add wattle		
EOP	Wattle	Drainage	EOP	NOT TO S	CALE

PROJECT REFERENCE NO. SHEET NO.

PROJECT NO.	SHEET NO.	TOTAL NO.
6CR.10091.71, 6CR.20091.71	12	
6CR.10241.71, ETC.		

SUMMARY OF QUANTITIES

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\$\frac{1}{2} \(\frac{1}{2} \) \(\frac{1}	R.10091.71 B	Bladen	1	US 701 - A		1	NO NO	0.49	60	12	0.98			3,755	44		1,401			1 00	10					1
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S			4	1		2	NO	0.96	58	15	1.92				44		2,536			152	13		38			2.00
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Column C			5			 1	NO	0.92	12	1/	1.84			 	99		2,001			170			- 0,	<u> </u>	+	1
Total Color Process Color			6	ì		3	NO	9	24	216	18.00			2,112	622	662	10,998									22.00
Control Cont	TOTAL FOR P	ROJ NO						13.25		277	26.50			5,867	1,021	662	21,698	L	<u> </u>	1,331	231	<u> </u>	530			28.65
Control Cont					EDOM OD 4400 TO DEAD END	1 0	l NO	0.5	20	1 12	Т		Τ	T	89	I	T	T	323	22	20	T	Γ		T	T
\$ 1 ST 11/22 PRODUCT ST 12/20 TO ST 11/20 ST 11/	CR.20091.71 E	Bladen																								
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13 SR 1738 FORDER TRANSFORCE COLUMBUS 1 No. Co. Co. Co. Co. Co. Co. Co. Co. Co. C			12	SR 1510	FROM SR 1511 TO SR 1509								<u> </u>	ļ												2.00
14 SR 1756 COLUMB 4 NO 0.98 20 21 178 178 189 300 55 30 30 175 176			13	SR 1755		4	NO	0.68	18	16	1.36			 	44	51		049	 	46	21	 	21		+	2.00
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Control Cont	TOTAL FOR R	OPO LNO			FROW 03 701 B03 10 3R 1710	+	INO											10,564	535	778	424		409			24.00
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17 US 76 PROM HAMPER ST, TO SR 1500 6 NO 3,07 28 74 6,14 30,823 1207 777 7	CR.10241.71 Co	olumbus	16	US 76 -A	FROM NC 904 TO HAMER ST.	5	NO	0.31	36				6,547									<u> </u>	100			7.00
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SCR 200/11 (Journal D. S. 1173) FROM SR 11767 TO NC 904 4 NO 4.2 18 101 8.40	TOTAL FOR P	PROJ NO). 6CR	.10241.71			<u> </u>	12.63		296	24.64	175,964	6,547	1,267	/55	3,163	16,394	I	1	1,122		L	493			1 23.00
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21 SR 1109 FROM SR 1107 OR 1103 4 NO 0 9 20 22 1,80 89 66 958 67 36 441 212 9 22 SR 1129 FROM NO 904 TO SR 1005 4 NO 1,18 20 28 2,36 133 88 1,249 67 47 177 47 85 4 23 SR 1129 FROM SR 1105 TO NO 904 TO SR 1100 14 NO 1,49 18 36 2,98 133 110 1,437 101 60 224 60 100 5 24 SR 1160 FROM SR 1162 TO SR 1170 4 NO 1,49 18 36 2,98 133 110 1,437 101 60 224 60 100 5 25 SR 11740 FROM U SR 1107 TO 1,40 11 10 10 60 224 60 100 5 26 SR 11740 FROM U SR 1107 TO 1,40 11 10 10 60 224 60 100 5 27 SR 1105 FROM SR 1107 TO NO 2,14 10 NO 1,50 10 10 10 10 10 10 10 10 10 10 10 10 10	CR.20241.71 Co	olumbus											 	1			1	4,002		282	168	135	36	65	3	10.00
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28 SK 1914 FROM SR 1170 TO SR 1186 8 NO			25	SR 1740	FROM U S74 TO NC 214			<u> </u>					ļ				ļ									4.00
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32 SR 1200 FROM SR 1198 TO END MAIN 8 NO 0.07 20 2 44 125 9 8												 	 	1		1		1	100	7	6					
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34 SR 1202 FROM SR 1166 TO SR 1201 8 NO 0.27 20 6											1				44				125	9	8			Ĺ		
35 SR 1203 FROM SR 1198 TO END MAINT 8 NO 0.12 20 3 44 81 6 5 5 6 6 5 6 6 6 6						8		0.27	20	6					44									<u> </u>		
37 SR 1568 FROM US 701 TO END MAINT 8 NO 0.12 20 5 20 12 316 21 20 20 20 20 20 20 20			_			8	NO	0.12	20	3							ļ					ļ				
37 SR 1568 FROM US 701 TO END MAIN 8 NO 0.5 20 12 12 131 9 8 131 9 8 131 9 8 131 9 8 131 9 8 131 9 8 131 9 8 131 9 8 131 9 8 131 9			36	SR 1204	FROM SR 1203 TO END MAINT	8	NO	0.12								ļ	_					<u> </u>				
38 SR 1569 FROM SR 1551 TO SR 1568 8 NO 0.2 20 5			37	SR 1568	FROM US 701 TO END MAINT	8								 		ļ		 				 	+	 		+
39 SK 15/0 SK 1551 O SK 1566 8 NO 0.21 20 5 44 137 9 8 8 141 SK 1749 FROM US 701 TO DEAD END 8 NO 0.83 20 20 20 44 141 SK 1749 FROM US 701 TO DEAD END 8 NO 0.83 20 20 20 20 20 20 20 2			38	SR 1569		_						<u> </u>	<u> </u>				 	 				-	-		-	+
40 SR 15/1 FROM SR 1531 TO SR 1566 8 NO 0.81 20 20 20 44 519 35 33 3 4 42 SR 1769 FROM SR 1749 TO PVMT CHANGE 8 NO 0.22 20 5 272 18 17 272 272 273 274 274 275													+	+		-	+	+				†	+	†	+	+
41 SR 1/49 FROM US 701 TO DEAD END 8 NO 0.63 20 20 44 143 10 9 4 42 SR 1760 FROM SR 1749 TO PVMT CHANGE 8 NO 0.22 20 5 44 2 143 10 9 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											+		 	+		 	 	+				†			1	
42 SR 1/60 FROM SR 1/49 TO PVMT CHANGE NO 0.22 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			41	SR 1749	FROM US 701 TO DEAD END	18	NO	0.83	20	- 20	 	 	 	+	+	 	 		 	1	1	1	1		1	
42 SK 1/60 FROM SK 1/49 TO PVMT CHANGE 6 NO 0.22 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1		40	CD 4700	EDOM SD 1749 TO DVAT CHANCE	E 0	NO	0.22	20	5					44				143	10	9			L		
43 SR 1/61 FROW SR 1/60 O CHO F VW 6 NO 0.45 20 10 10 CHO F VW 6 NO 0.45 20 10 10 CHO F VW 6 NO 0.45 20 10 10 CHO F VW 6 NO 0.45 20 10 10 CHO F VW											+	<u> </u>	 	1			T	<u> </u>			17					
TOTAL FOR FROS NO. 6CR.20241.71	TOTAL FOR	DRO I NO			I NOW SK 1760 TO END POWIT	+-	+ NO				32.98	1	1	516		1,216		17,350	2,753	1,404	831	2,286	261	1,097	48	40.00
GRAND TOTAL 57.67 1,326 104.58 175,964 6,547 8,917 5,100 5,798 38,092 27,914 3,288 4,635 1,744 2,286 1,693 1,097 48	TOTAL FOR I	I KOJ N	J. 30F						1																	
	GF	RAND TO	OTAL	T T		T	T	57.67	T	1,326	104.58	175,964	6,547	8,917	5,100	5,798	38,092	27,914	3,288	4,635	1,744	2,286	1,693	1,097	48	121.65

PROJECT NO.	SHEET NO.	TOTAL NO.
6CR.10091.71, 6CR.20091.71	13	
6CR.10241.71, ETC.		

THERMOPLASTIC AND PAINT QUANTITIES

	TERMOPLASTIC AND PAINT QUANTITIES 458900000-N 468500000-E 469500000-E 469500000-E 469700000-E 4721000000-E 472100000-E 472500000-E 472500000-E 481000000-E 490000000-N																										
							4589000000-N											TUEDNO	TUEDNO		4725000000-E THERMO	THERMO	TUEDNO DE	481000 4" YELLOW	4" WHITE	CRYSTAL &	YELLOW &
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	LENGTH	H WIDTH		4" X 90 M	4" X 90 M	4" X 120 M	4" X 120 M	8" X 90 M	8" X 120 M	24" X 120 M		THERMO MSG STOP	THERMO MSG AHEAD	THERMO	THERMO STR ARROW	THERMO LT ARROW	STR & LT	STR & RT	ARROW 90		PAINT	RED	YELLOW
							CONTROL	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	MSG ONLY	120 M	120 M	SCHOOL 120		90 M	ARROW 90		M ARROW	PAINI	PAINI	MARKERS	MARKERS
								THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	120 M	120 W	120 W	SCHOOL 120	90 W	90 W	ARROVV 90	ARROW 90	i v			WARRERS	WARRERS
110		NO				1	LS	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	ËA	EA	EA	EA	EA	EA	LF	LF	EA	EA
NO	 	- NO		FROM BEG. DIVIDED HWY TO			L3	L. L.		<u> </u>		<u> </u>						T				1					
6CR.10091.71	Diadon	1 4	US 701 - A		0.49	60	1	4.000	4.000	1,000	1,000		250						10							50	16
6CR. 10091.71	Diaueii		03 101-7	FROM END DIVIDED HWY TO	0.40	+		1,000	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1							1									
		2	US 701 - E	BEGIN DIVIDED HWY	1.42	44	*	16,000		375	19,000		300							15						20	110
	 	+-		FROM BEGIN DIVIDED HWY TO		1																				1	
		3	US 701 - C	END DIVIDED HWY	0.46	60		5,400	5,000	700	1,500	700			8			1	16		2	11	9			75	25
				FROM END OF DIVIDED HWY TO																_			7				440
		4	US 701 - E		0.96	58	*	10,300		1,350	11,100		700					-	6	5			 			60	110
				FROM THE WCL OF WHITE LAKE							0.050	200	400		8				7	23						200	60
		5	US 701 - E		0.92	72	<u> </u>	10,400	3,400	575	6,250	200	400		- °		 	 	 '	23			 			200	
	1	1 .		FROM NCL WHITE LAKE TO THE SAMPSON CO. LINE		24		97,500	1,500	475	42,000		400						1 6							25	625
		16	US 701 - F	SAMPSON CO. LINE	13.25		+ 1	143,600		4,475	80,850	900	2,050		16				45	43	2	1	21			430	946
TOTAL FOR	R PROJ NO). 6CR.	10091.71		13.25	-	- 		7,500		325	300	2,000			l	16			·············	112	J	J		I		376
					1		_l	1 101	,500		,020	L	J	L			· · · · · · · · · · · · · · · · · · ·							<u> </u>		<u> </u>	
6CP 20001 74	Blades	1 7	SR 1120	FROM SR 1128 TO DEAD END	0.5	20	T	T	T	i i	T		T		T		I	T									
UUN.2009 1.7 I	Diauen		SR 1129		0.23					1	1						I										
	+		SR 1192		0.09																						
	 	10	SR 1150	FROM END OF 3-LANE TO NC 87				12,000			10,200					4	5										75
	1			FROM SR 1524 TO SR 1505																				52,000	61,500	ļ	
		12	SR 1510	FROM SR 1511 TO SR 1509	1.39	20													ļ			ļ		28,000	23,800		
		13	SR 1755	FROM SR 1756 TO SR 1001	0.68	18												ļ						14,040	12,000		
				FROM SR 1755 TO COLUMBUS						1				i										00.000	47.000		
			SR 1756		0.88	20				ļ				<u> </u>	ļ			-				ļ	ļ	20,000	17,000		225
		15	SR 1760	FROM US 701 BUS TO SR 1710						ļ		ļ	ļ	15			 		_			<u> </u>		57,800 171.840	68,000 182,300	ļ	300
TOTAL FOR	PRO.I NO	6cCR	20091.71		11.05			12,000	<u> </u>		10,200	ļ	ļ	15	 	4	9	J	 	l		L			,140	2	00
TOTALTO				<u></u>				12,	,000	10	,200	J	L	l	l		9					· · · · · · · · · · · · · · · · · · ·		354	, 140		00
				T FROM WO COLUMN TO LUME TO ST	1 004	7 00			Т	r	4,000	1	т	T	T	Ι	T	T	T	Γ	Γ	T	T	4,000	I	1	25
6CR.10241.71	Columbu	ıs 16	US 76 -A	FROM NC 904 TO HAMER ST.	0.31	36		22,000	ļ	-	27,200	 	 	 			 					 		27,200	32,000		
				FROM HAMER ST. TO SR 1500 FROM SR 1500 TO SR 1574	3.07	26 24		32,000 89,950		375	59,050	 	530	100	 		 	24	 	30		 		59,050	90,325	651	20
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TOTAL FO	R PROJ NO	O. 6CR.	10241.71		12.03		+'		1,950),625						24		<u> </u>	<u> </u>	30	<u> </u>		212	,575	6	96
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6CR.20241.7	Columbu	ıs 19	SR 1002	FROM US 701 TO NC 410	5.78	22	T	60,500	T T	1	51,500																400
CORRECTION	- COMMINIST	20	SR 1103			18																		92,000	78,200		
		21	SR 1108		0.9	20																		20,000	17,000		
			SR 1128			20													ļ					25,500	30,000	1	
			SR1129			20							ļ					ļ					 	10,900	14,000	 	100
			SR 1166			18			ļ						ļ		ļ		_					16,000	19,000		100 33
		25	SR 1740	FROM U S74 TO NC 214	0.55			6,000	ļ	2,250		-	<u> </u>		ļ		 					 		27,200	32,000		
			SR 1914		1.5			 	-			 	 		 	 	 	-		 		 	+	21,200	32,000	 	
			SR 1185		0.14			 	 	 		 	+	 	 		-	 	 	 		 	1	 	 	1	l
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			SR 1200		0.19			 	 	1	1	-			†				1			T					
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	1	36	SR 1204	FROM SR 1203 TO END MAINT	0.12	20																		 		}	
		37	SR 1568	FROM US 701 TO END MAINT	0.5	20												-		ļ				 		ļ	ļ
			SR 1569	FROM SR 1551 TO SR 1568	0.2										1		ļ						 	 			
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			SR 1571		0.21					1						ļ				ļ		J	 			ļ	
		41	SR 1749	FROM US 701 TO DEAD END	0.83							1		ļ			ļ				-	-	 	 	 	 	
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				FROM SR 1749 TO PVMT CHANGI				1		ļ	 			-	-	-	 		 	 		 		 			
		43	SR 1761	FROM SR 1760 TO END PVMT								ļ		ļ	-	 	<u> </u>		 	 	ļ	 	 	191 600	190,200	 	533
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				_1				1 66	5,500	5	3,750			L										301	,,,,,,,		
					57.67	,		344.050	13.900	7 100	232,800	900	2,580	115	16	4	5	24	45	73	2	1 1	21	453.690	494,825	1,081	1,824
	GRAND TO	OTAL			57.67		 		7.950		9.900	1 300	2,000	110	+		49		† <u>-</u>		142	.1			3,515		905
				1	1			, 35	1.000	, 23	0,300	1		1					_1					3.40	/ · · ·		

PROJ. REFERENCE NO. SHEET NO. WBS ELEMENTS: 6CR.10091.71, 6CR.10241.71, SEE TO THE LEFT TCP-1 6CR.20091.7 & 6CR.20241.71 CAROLINA TRANSPORTATION HIGHWAYS RECOMMENDED MINIMUM SIGN SPACING POSTED SPEED LIMIT \otimes Z (M.P.H.) NORTH ≤ 50 RALEIGH, 500' 0F ≥ 55 1000' DIVISION P PF STATE DEPT GNS IDED \vdash S VIONU DRAWING 9 WARNIN -WAY DETAIL TWO ZONI WORK FOR **LEGEND** PORTABLE SIGN d DIRECTION OF TRAFFIC FLOW SHEET 1 OF 1 APPROVED: DATE: DETAIL DRAWING FOR TWO-WAY UNDIVIDED

ADVANCED WORK ZONE WARNING SIGNS

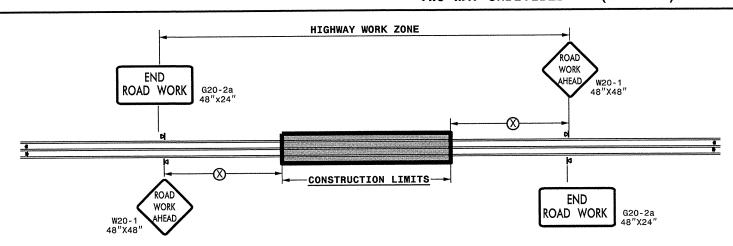
NONE

12/10

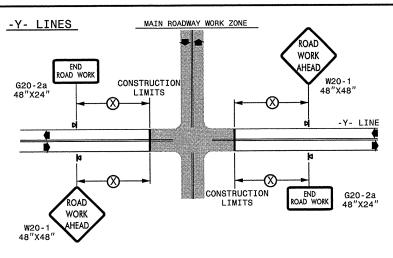
SEAL

REVISIONS

TWO-WAY UNDIVIDED ** (L-LINES)



ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
 - A. TRUCK MOUNTED SIGNS
 - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 - C. GROUND MOUNTED ADVANCE WARNING SIGNS (MUST CIRCLE TO PICK UP SIGNS)
 - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND TO BOTTOM OF SIGN.
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.
- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED. BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.
- (13) INFORMATIONAL SIGNS SHOULD BE ACTIVITY SPECIFIC, i.e.
 "PAINT CREW IN ROAD". SIGNS MAY BE RECTANGULAR OR DIAMOND SHAPE.
 SIGN SIZE SHOULD BE BASED ON THE MOTORIST ABILITY TO RECOGNIZE
 SIGN WHEN TRAVELING FIVE (5) MILES ABOVE POSTED SPEED LIMIT.
- (14) IF A LEAD VEHICLE IS ADDED TO OPERATION, IT SHOULD HAVE THE SAME ADVANCE WARNING SIGNS AS THE APPLICATION VEHICLE SHOWN BELOW.

LEGEND

PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.

NCHRP-350 AND NCDOT APPROVED
DIRECTION OF TRAFFIC FLOW



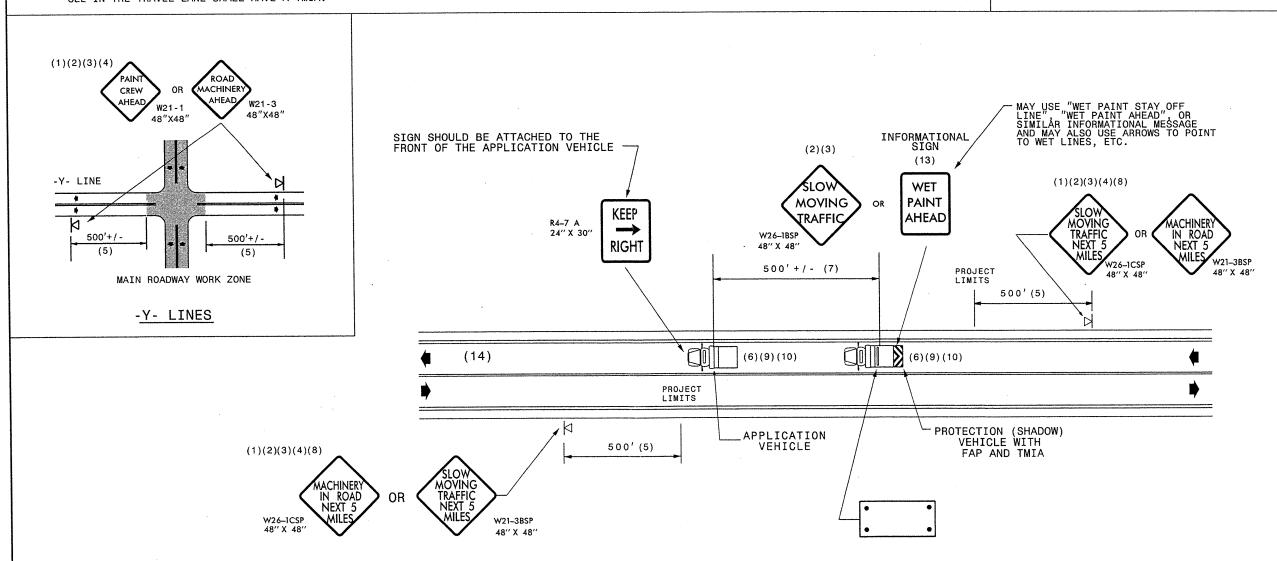
APPLICATION VEHICLE WITH LIGHT BAR



PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND LIGHT BAR (SEE ROADWAY STANDARD NO. 1165.01). TMIA MUST BE NCHRP-350 TEST LEVEL 3 (60+MPH) APPROVED.



FLASHING ARROW PANEL,
TYPE "B" (60"X30" MIN.),
"CAUTION MODE"



MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON TWO-LANE TWO-WAY ROADWAYS

DRAWING NUMBER 6
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04

GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
 - A. TRUCK MOUNTED SIGNS
 - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 - C. GROUND MOUNTED ADVANCE WARNING SIGNS (MUST CIRCLE TO PICK UP SIGNS)
 - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS) (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF FIVE (5) FEET FROM THE GROUND TO BOTTOM OF SIGN.
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.

- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.
- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.

LEGEND

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PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.



DIRECTION OF TRAFFIC FLOW



APPLICATION VEHICLE WITH LIGHT BAR



PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND LIGHT BAR (SEE ROADWAY STANDARD NO. 1165.01). TMIA MUST BE NCHRP-350 TEST LEVEL 3 (60+MPH)



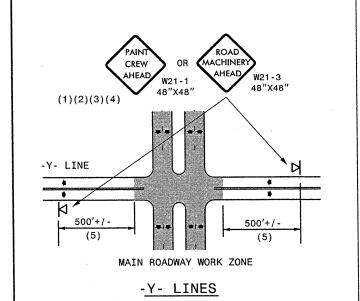
ADVANCE WARNING VEHICLE WITH TRUCK MOUNTED CHANGEBLE MESSAGE SIGN (CMS) AND LIGHT BAR. MESSAGE SIGN LETTER HEIGHT SHOULD BE A MINIMUM OF 10 INCHES.

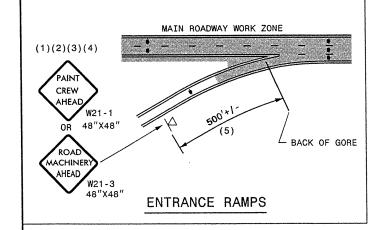


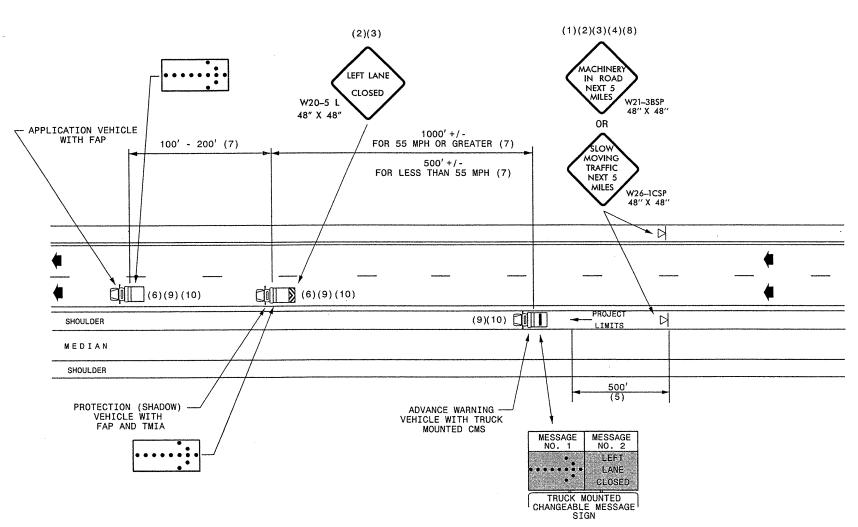
FLASHING ARROW PANEL, TYPE "B" (60"X30" MIN.), APPROPRIATE DIRECTION INDICATED



CHANGEABLE MESSAGE SIGN







MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON NON-INTERSTATE MULTILANE DIVIDED ROADWAYS

DRAWING NUMBER 7
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04