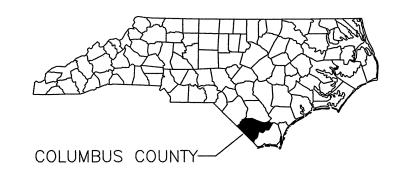
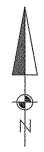
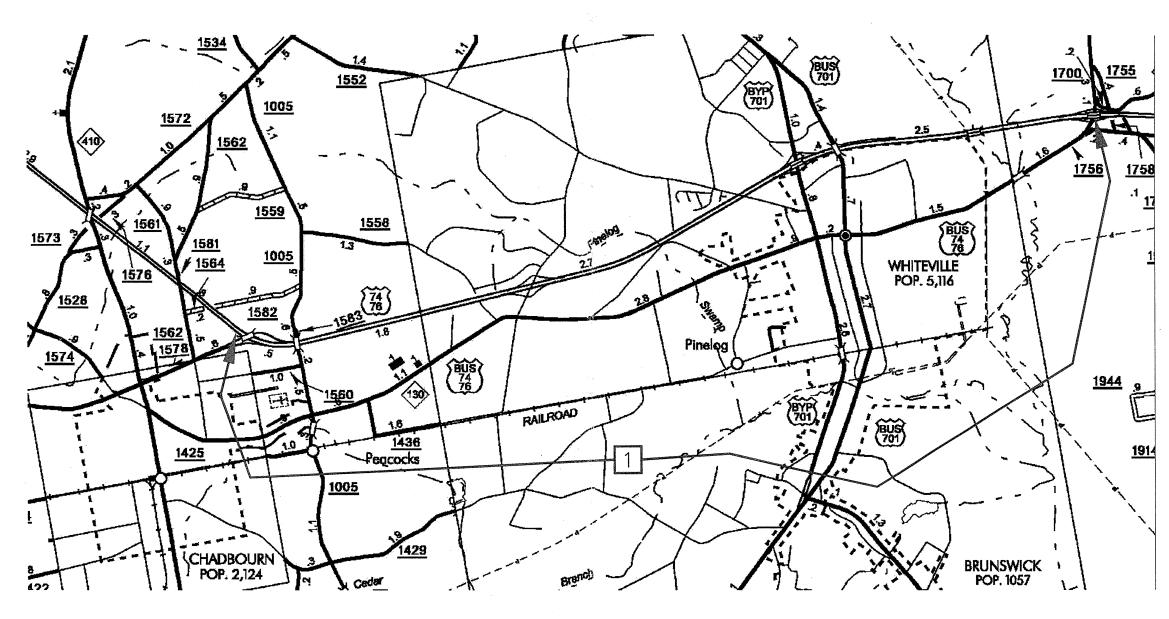
PROJECT	REFERENCE	NO.	SHEET	NO.
	R-5508		1	

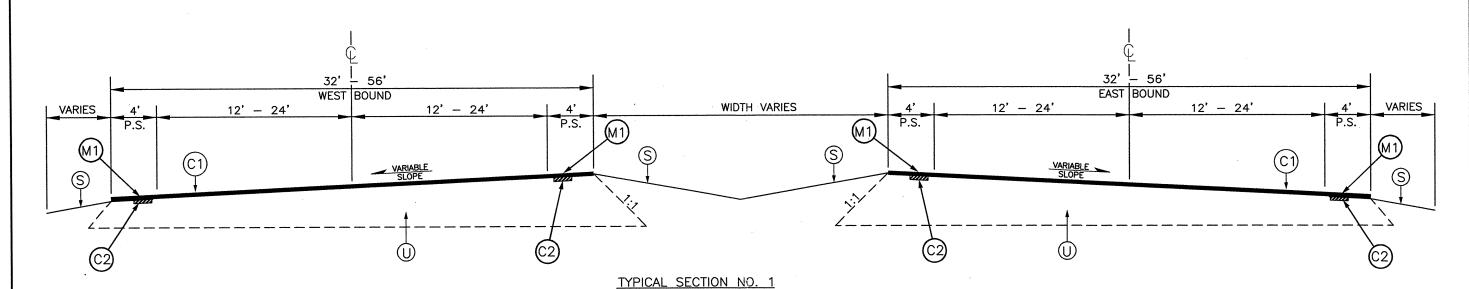
<u>RESURFACING MAP - COLUMBUS COUNTY</u>







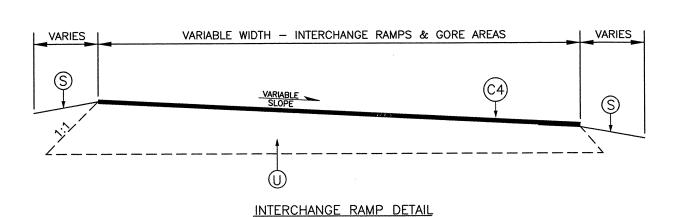
PROJECT	REFERENCE	NO.	SHEET	NO.
	2-5508		2	



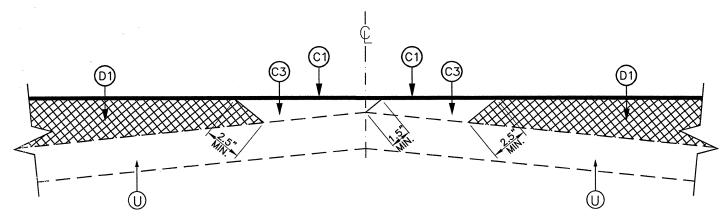
- NOTES:

 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.



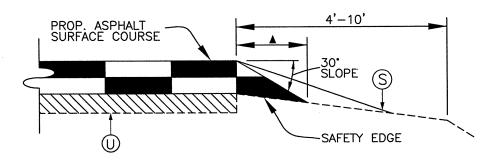
- NOTES:
 1. FOR USE WITH ALL INTERCHANGE RAMPS AND GORE AREAS.
 2. INCLUDES MILLING ON INTERCHANGE RAMPS WITH CURB & GUTTER, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 4.
 3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE—INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.



WEDGING DETAIL

- -L- STA. 255+00 TO -L- STA. 263+50
- -L- STA. 287+00 TO -L- STA. 297+00
- -L- STA. 402+00 TO -L- STA. 429+00

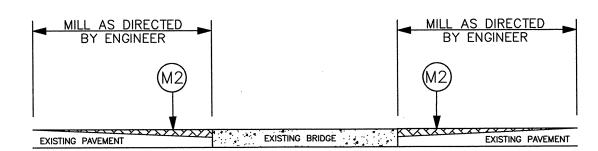
NOTE: STATIONING BASED ON PLANS FOR PROJECT NUMBERS 6.4310019 & 6.4310089, DATED MARCH, 1970.



<u>DETAIL 1</u> SHOULDER WEDGE / SAFETY EDGE

NOTE:

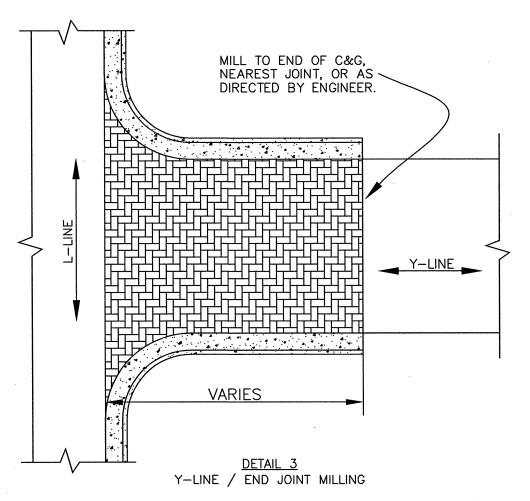
- 1. SAFETY EDGE SHALL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE SHALL BE ADDED TO THE SCREED OF THE PAVING MACHINE.
- 2. SAFETY EDGE SHALL BE INCLUDED ON ALL TYPICALS EXCEPT FOR CURB & GUTTER SECTIONS, OR AS DIRECTED OTHERWISE BY ENGINEER.
- 3. SAFETY EDGE SHALL BE USED ON THE SURFACE LAYER ONLY.
- 4. SAFETY EDGE MAY BE CONSTRUCTED BY HAND WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS.
- 5. 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.



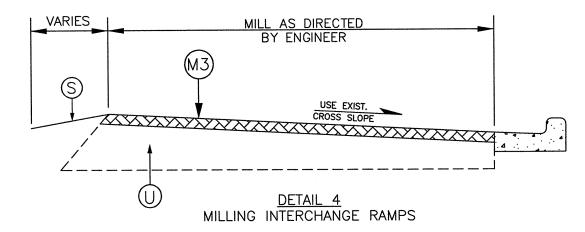
<u>DETAIL 2</u> MILLING APPROACHES

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

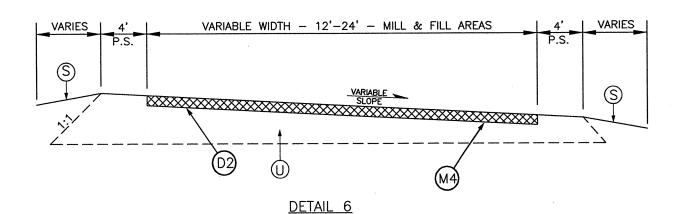
PROJECT	REFERENCE	NO.	SHEET	NO.			
	PROJECT REFERENCE NO.						



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 THIS DETAIL.



NOTE: MILLING SHALL BE PERFORMED AT INTERCHANGE RAMPS WITH CURB & GUTTER AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THIS DETAIL.

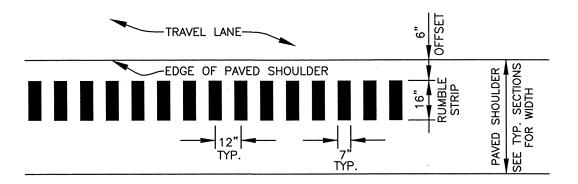


NOTE

1. DISTRESSED AREAS TO BE PATCHED SHALL BE DESIGNATED BY THE ENGINEER.

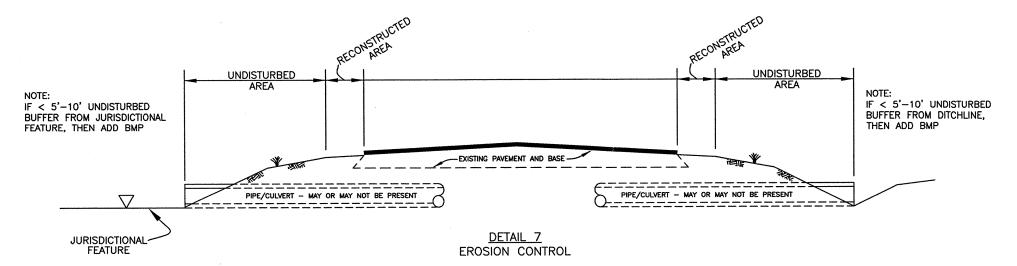
MILL & FILL PATCHING

- 2. MILL DISTRESSED AREAS TO A DEPTH AS INDICATED.
- 3. FILL MILLED AREAS WITH ASPHALT CONCRETE INTERMEDIATE COURSE BACK FLUSH WITH THE EXISTING ASPHALT LEFT IN PLACE.



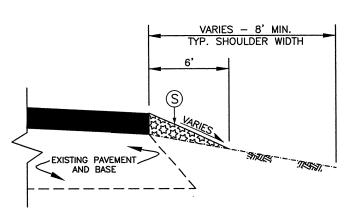
DETAIL 5
PAVED SHOULDER — PLAN VIEW

NOTE:
REFER TO STD. DWG. NO. 665.01 — "ASPHALT SHOULDERS MILLED RUMBLE STRIPS", IN THE NCDOT ROADWAY STANDARD DRAWINGS, LATEST EDITION, FOR ADDITIONAL INFORMATION.



NOTES:

- 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).



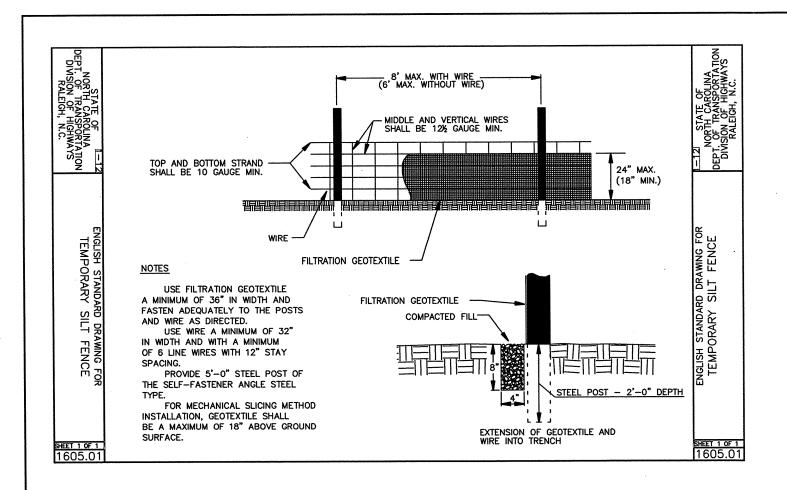
<u>DETAIL 8</u> SHOULDER RECONSTRUCTION

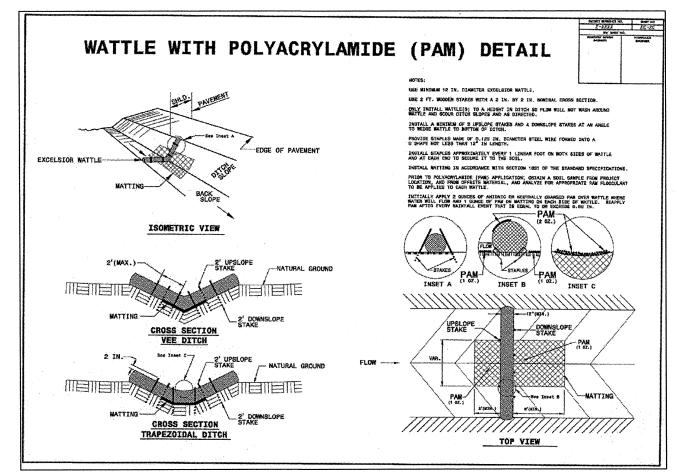
NOTES:

- 1. SHOULDER SHALL BE RECONSTRUCTED FROM THE EDGE OF PAVEMENT OUT
 TO A WIDTH OF 6', WITH A VARIABLE SLOPE, TYING BACK INTO THE EXISTING
 SHOULDER REFER TO ROADWAY STD. DWG. 560.01 FOR MORE DETAIL
- SHOULDER. REFER TO ROADWAY STD. DWG. 560.01 FOR MORE DETAIL.

 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 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.
- 5. REQUIRED BORROW MATERIAL MAY BE OBTAINED BY THE CONTRACTOR FROM WIDENING OPERATIONS WITHIN THE PROJECT LIMITS, FROM NCDOT APPROVED BORROW PITS OR FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

PAVEMENT SCHEDULE
Proposed approximately 2" of Asphalt Concrete Surface Course, Type S9.5C, at an average rate of 224 pounds per square yard.
Proposed approximately ½" of Asphalt Concrete Surface Course, Type S4.75A, at an average rate of 50 pounds per square yard, for filling existing Milled Rumble Strips prior to placement of C1.
Proposed variable depth Asphalt Concrete Surface Course, Type S9.5C at an average rate of 112 lbs. per sq. yd. per 1" depth. to be placed in layers not less than a depth of 1½", nor greater than 2" in depth, with a max. total depth of 3.0".
Proposed approximately 1½" of Asphalt Concrete Surface Course, Type S9.5B, at an average rate of 168 pounds per square yard.
Proposed variable depth Asphalt Concrete Intermediate Course, Type I19.0C, at an average rate of 114 lbs. per sq. yd. per 1" depth, to be placed in layers not less than a depth of 2½", nor greater than 4" in depth, with a max. total depth of 4.0".
Proposed approximately 2½" of Asphalt Concrete Intermediate Course, Type I—19.0—C, at an average rate of 285 pounds per square yard.
Proposed Milled Rumble Strips in accordance with Standard Drawing 665.01 of the <u>Roadway Standard Drawings</u> .
Milling Depth 0" — 2" at all Bridge and Railroad Approaches, for the entire width of the roadway, or as Directed by the Engineer.
Milling Depth 1½" at all Interchange Ramps with Curb & Gutter, for the entire width of the roadway, or as Directed by the Engineer.
Milling Depth 2½" at all designated Mill & Fill Patch Areas, with a variable width from 12' to 24', or as Directed by the Engineer.
Shoulder Reconstruction
Existing Pavement and Base
Variable Depth Asphalt Pavement (See Wedging Detail)
DRAWINGS NOT TO SCALE



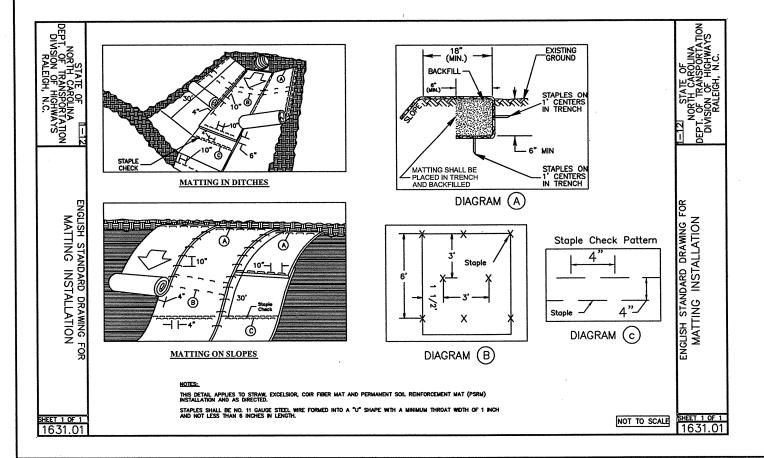


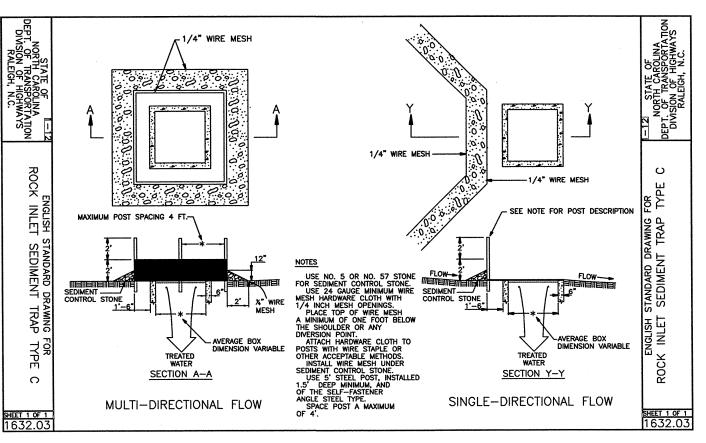
PROJECT REFERENCE NO.

R-5508

SHEET NO.

6





PROJECT NO.	SHEET NO.	TOTAL NO.
R-5508	7	

SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAD	POLITE	DESCRIPTION	TYP	FINAL	LENGTH	WIDTH	BORROW	SHOULDER	MILLING	MILLING	MILLING	INCIDENTAL	INTER-	WEDGING	SURFACE	SURFACE	WEDGING	SURFACE
PROJECT	COONTT	IVIAP	KOOIE	DESCRIPTION	111	1 1	LENGIA	WIDIN	1			l	1							
•			1			SURFACE			EXCAVATION	RECON-	ASPHALT	ASPHALT	ASPHALT	MILLING	MEDIATE	WITH	COURSE,	COURSE,	WITH	COURSE,
			İ			TESTING				STRUCTION	PAVEMENT,	PAVEMENT,	PAVEMENT,		COURSE,	119.0C	S9.5B	S9.5C	S9.5C	S4.75A
						REQUIRED					1.5"	2.5"	0" TO 2"		119.0C					ı
											DEPTH	DEPTH	DEPTH							ı
NO		NO			NO		MI	FT	CY	SMI	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS
R-5508	Columbus	1	US 74-A	FROM US 76 TO US 74 BUSINESS	1, 2	No	8.5	64	3,200	34.00	2,000	5,700	11,500	533	803	4,280	9,797	37,591	788	673
TC	OTAL FOR MA	AP NO	1				8.5		3,200	34.00	2,000	5,700	11,500	533	803	4,280	9,797	37,591	788	673
TOTA	TOTAL FOR PROJ NO. R-5508		5508				8.5		3,200	34.00	2,000	5,700	11,500	533	803	4,280	9,797	37,591	788	673
TOTAL FOR PROJ NO. R-5508		3308												5,0	5,083		38,379		1	

PROJECT	COUNTY	MAP RC	DUTE	DESCRIPTION	TYP	LENGTH	WIDTH	ASPHALT	PATCHING	MILLED	TEMPORARY	SEDIMENT	SILT	MATTING FOR	1/4"	WATTLE	POLY-	SEEDING &	REMOVAL AND
								BINDER FOR	EXISTING	RUMBLE STRIPS	SILT FENCE	CONTROL	EXCAVATION	EROSION	HARDWARE		ACRYLAMIDE	MULCHING	REPLACEMENT
								PLANT MIX	PAVEMENT			STONE		CONTROL	CLOTH		(PAM)		OF BRIDGE
																			JOINT SEALS
															İ				
NO		NO			NO	MI	FT	TONS	TONS	LF	LF	TON	CY	SY	LF	LF	LB	ACR	LS
R-5508	Columbus	1 US	74-A	FROM US 76 TO US 74 BUSINESS	1, 2	8.5	64	3,142	255	180,000	2,550	100	300	680	1,320	1,224	51	42	LS
TOTAL FOR MAP NO. 1					8.5		3,142	255	180,000	2,550	100	300	680	1,320	1,224	51	42	LS	
TOTAL FOR PROJ NO. R-5508)8			8.5		3,142	255	180,000	2,550	100	300	680	1,320	1,224	51	42	LS	

THERMOPLASTIC AND PAINT QUANTITIES

		T		ĺ				4399000000-N	4697000000-E	468800000-E		469000000-E		4700000000-E	4710000000-E 472		00000-E	4775000000-E	75000000-Е 4850000000-Е 4900000000-	
PROJE	ст сс	OUNTY	MAP	ROUTE	DESCRIPTION	LENGTH	WIDTH	TEMP. TRAFFIC	8" X 120 M	6" X 90 M	6" X 90 M	6" X 120 M	6" X 120 M	12" X 90 M	24" X 120 M	THERMO STR	THERMO	6" COLD	4" LINE	CRYSTAL & RED
İ								CONTROL	WHITE	WHITE	YELLOW	WHITE	YELLOW	WHITE	WHITE	ARROW	RAMP ARROW	APPLIED	REMOVAL	MARKERS
									THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	90 M	(90 MILS)	PLASTIC		
		1	i															PAVEMENT		
																		MARKING		
1																		LINES, TYPE III		
1		1		1																
NO.			NO					LS	LF	LF	LF	LF	LF	LF	LF	EA	EA	LF	LF	EA
R-55	08 Col	lumbus	1	US 74-A	FROM US 76 TO US 74 BUSINESS	8.5	64	1	700	128,250	106,700	25,120	4,400	8,500	40	9	4	3,800	3,800	1,850
	TOTAL FOR MAP NO. 1		1		8.5		1	700	128,250	106,700	25,120	4,400	8,500	40	9	4	3,800	3,800	1,850	
Т	TOTAL FOR PROJ NO. R-5508			5508		8.5		1	700	128,250	106,700	25,120	4,400	8,500	40	9	4	3,800	3,800	1,850
1 '	TOTAL FOR PROJ NO. R-5508							234	,950	29,520				13						