

CONTRACT NO.: C203172 WBS ELEMENT: ICR.10211.8, ETC.

*****SYSTEMTIME*****
 *****\$\$\$\$DGN\$\$\$\$\$\$\$
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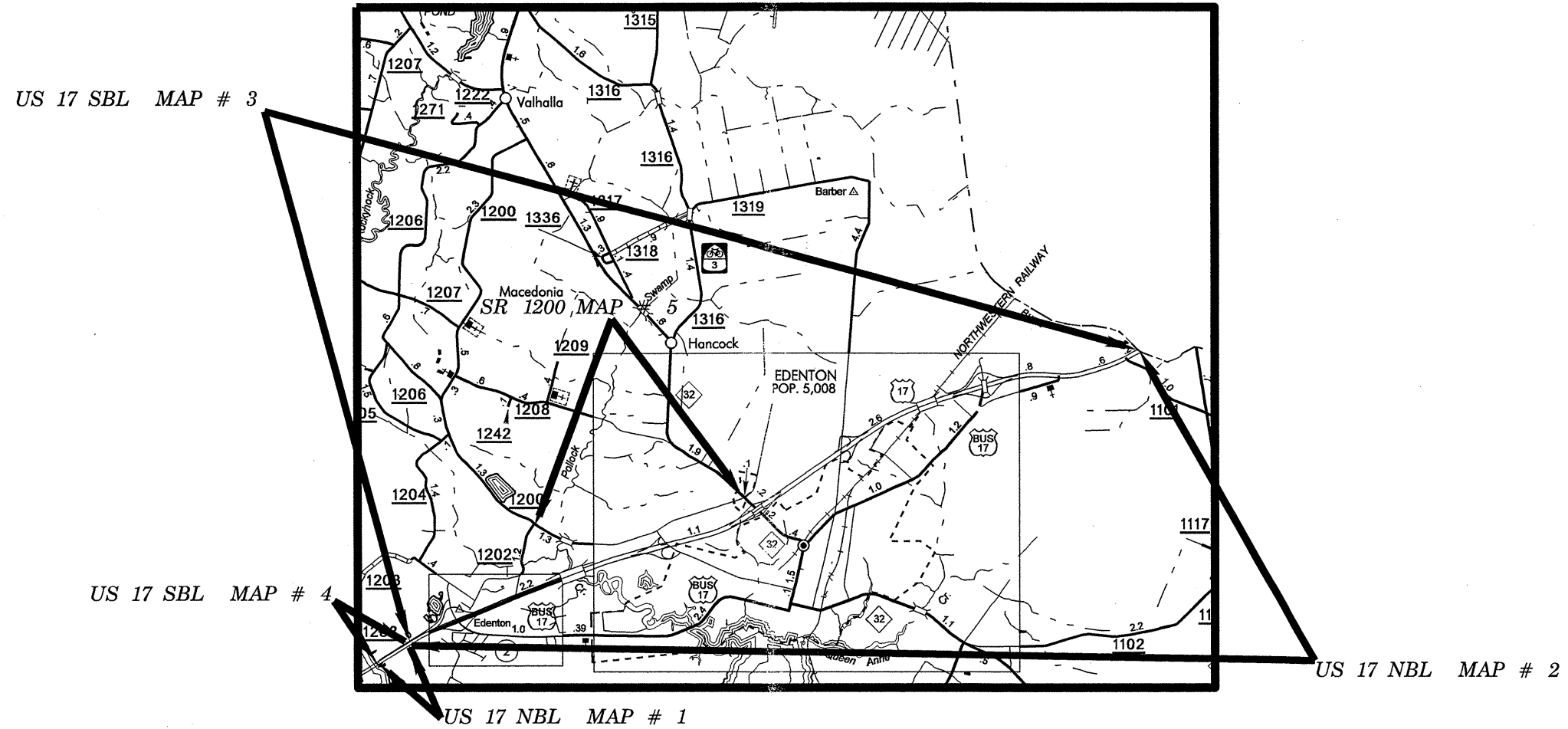


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

CHOWAN COUNTY

LOCATION: US 17 FROM CHOWAN RIVER BRIDGE TO PERQUIMANS COUNTY LINE
 SR 1200 FROM SR 1202 TO TO NC 32
 TYPE OF WORK: MILLING, RESURFACING & LONGLIFE PAVEMENT MARKINGS AND MARKERS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	ICR.10211.8, ETC.	1	1



NOT TO SCALE

PROJECT LENGTH	
MAP #1 WBS ICR.10211.8	= 0.55 MILES
MAP #2 WBS ICR.10211.8	= 7.61 MILES
MAP #3 WBS ICR.10211.9	= 7.61 MILES
MAP #4 WBS ICR.10211.9	= 0.49 MILES
MAP #5 WBS ICR.20211.21	= 1.70 MILES

Prepared in the Office of
DIVISION OF HIGHWAYS

2012 STANDARD SPECIFICATIONS
 LETTING DATE: _____

W.B. HOBBS, P.E.
 DIVISION PROJECT MANAGER

C.E. SLACHTA
 DIVISION PROPOSALS ENGINEER

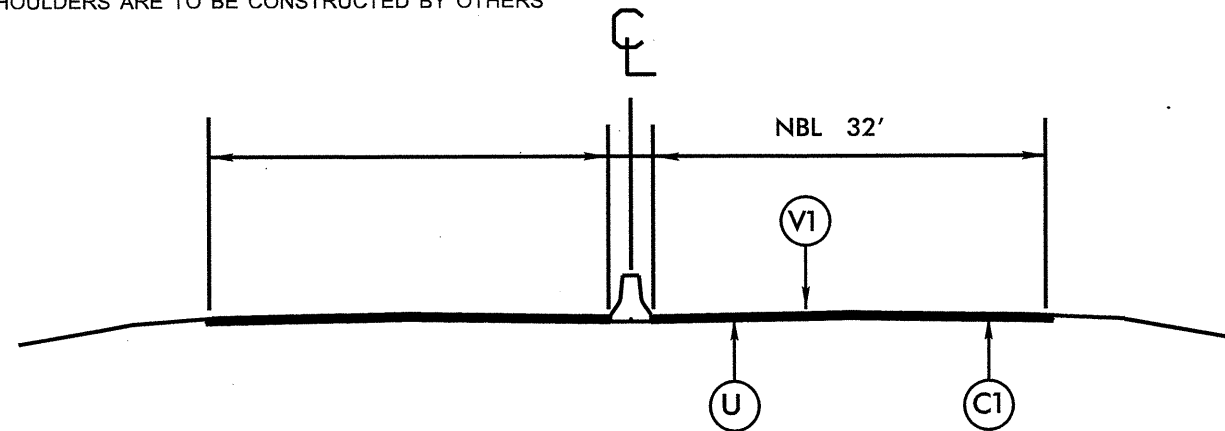
DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

NOTES:

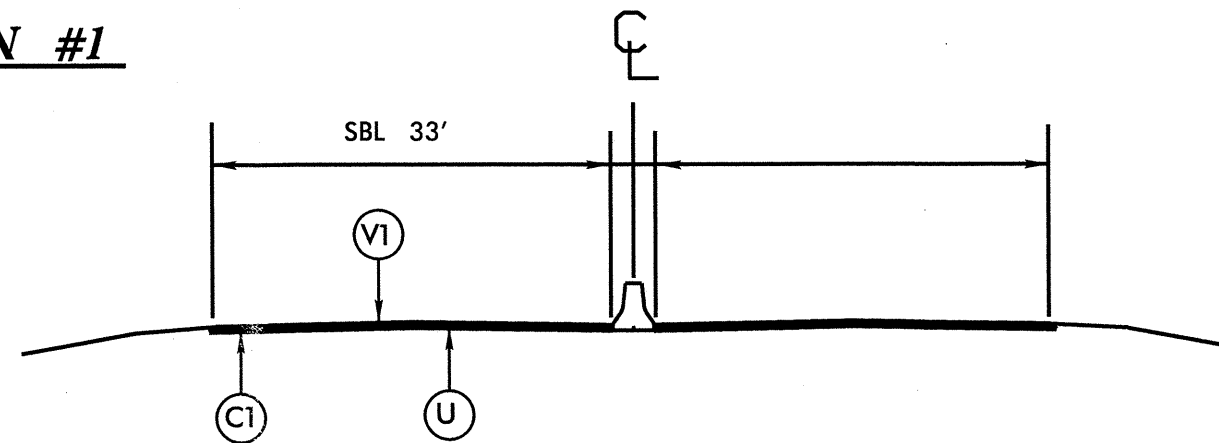
1. ALL PAVED INTERSECTIONS, CROSS OVERS, OFF RAMP AND TURN LANES TO BE MILLED AND RESURFACED TO THE ENDS OF THE RADIORS DIRECTED BY THE ENGINEER
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND TURN LANES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
4. SHOULDERS ARE TO BE CONSTRUCTED BY OTHERS

PROJECT REFERENCE NO.	SHEET NO.
1CR.10211.8, ETC.	3

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE TYPE S 9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ.YD.
V1	MILLING BITUMINOUS PAVEMENT 2.0" DEPTH
U	EXISTING PAVEMENT.



TYPICAL SECTION #1
USE WITH MAP 1



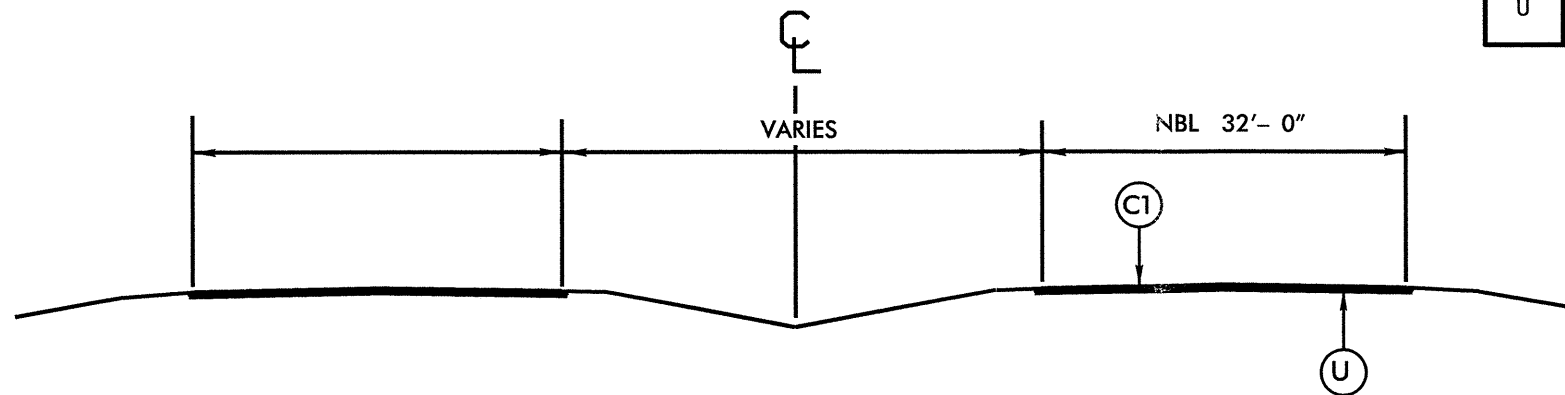
TYPICAL SECTION #2
USE WITH MAP 4

NOTES:

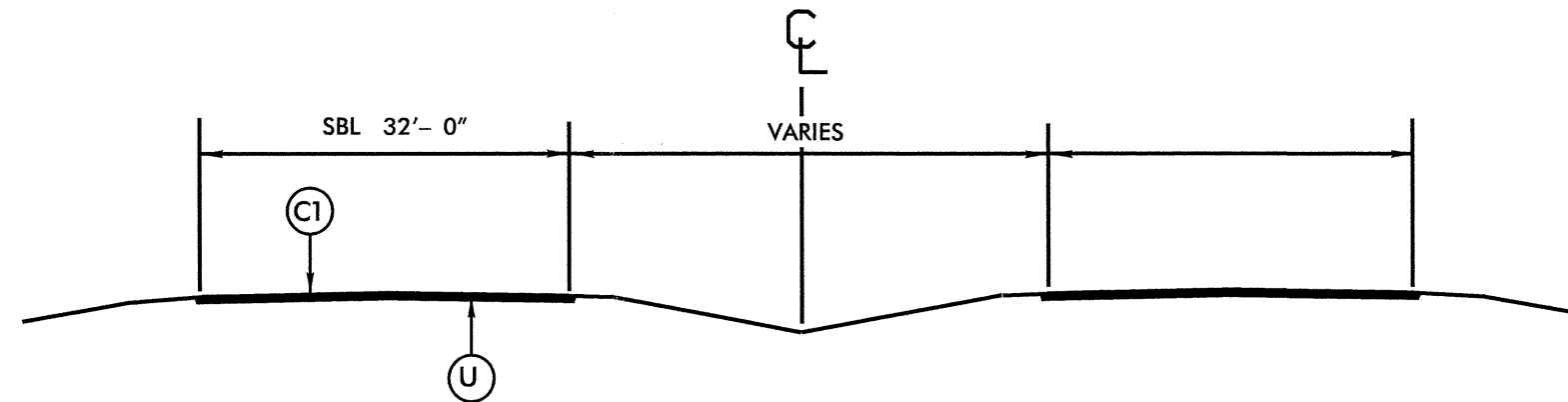
1. ALL PAVED INTERSECTIONS, CROSS OVERS, OFF RAMP AND TURN LANES TO BE RESURFACED TO THE ENDS OF THE RADIORAS DIRECTED BY THE ENGINEER
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND TURN LANES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
4. SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS

PROJECT REFERENCE NO.	SHEET NO.
1CR.10211.8, ETC.	4

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE TYPE S 9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ.YD.
U	EXISTING PAVEMENT.



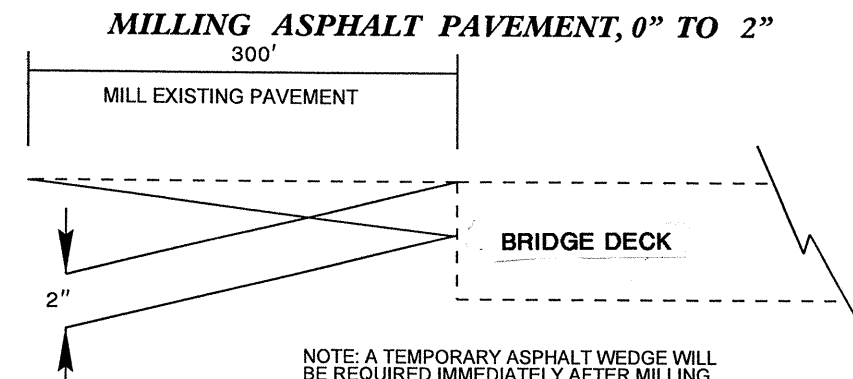
TYPICAL SECTION #4
USE WITH MAP 2



TYPICAL SECTION #5
USE WITH MAP 3

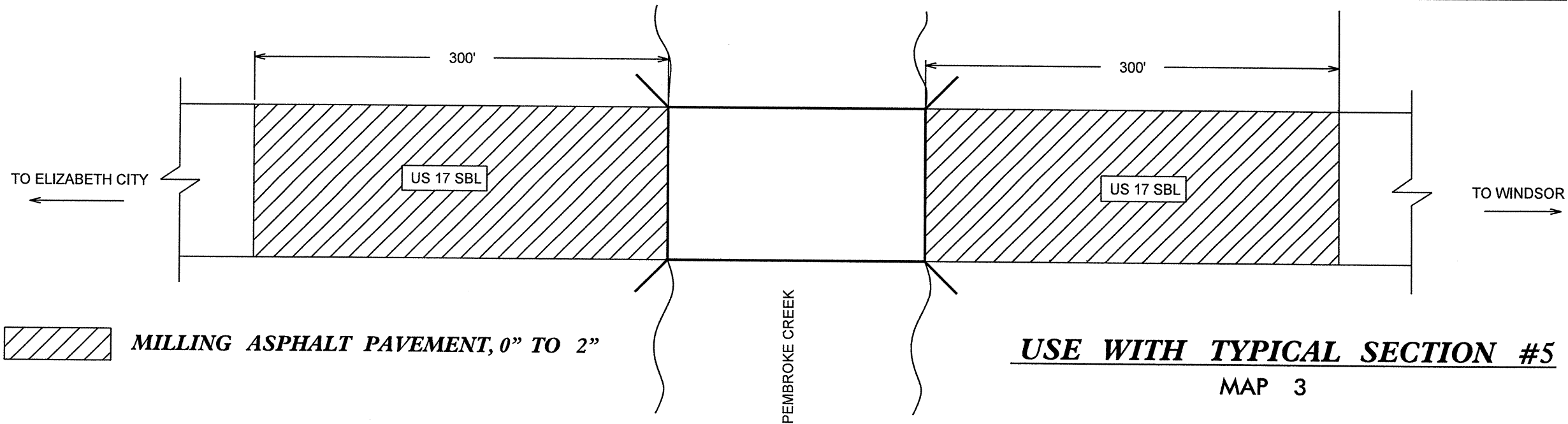
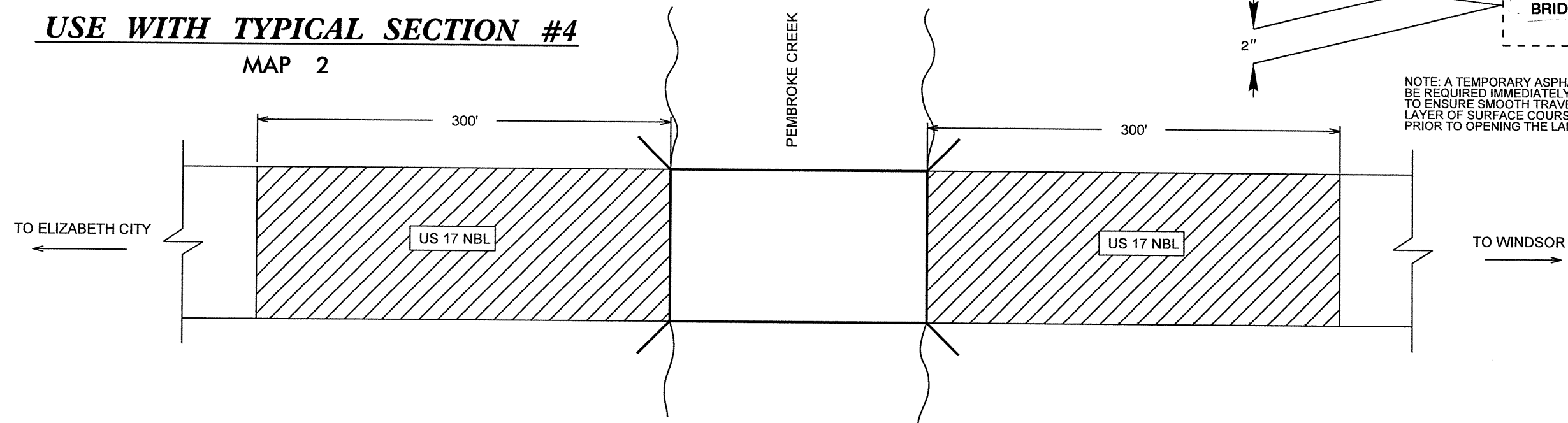
MILLING ASPHALT PAVEMENT, 0" TO 2" DETAIL FOR BRIDGES OVER PEMBROKE CREEK

PROJECT REFERENCE NO.	SHEET NO.
1CR.10211.8, ETC.	4A



USE WITH TYPICAL SECTION #4

MAP 2



 **MILLING ASPHALT PAVEMENT, 0" TO 2"**

USE WITH TYPICAL SECTION #5

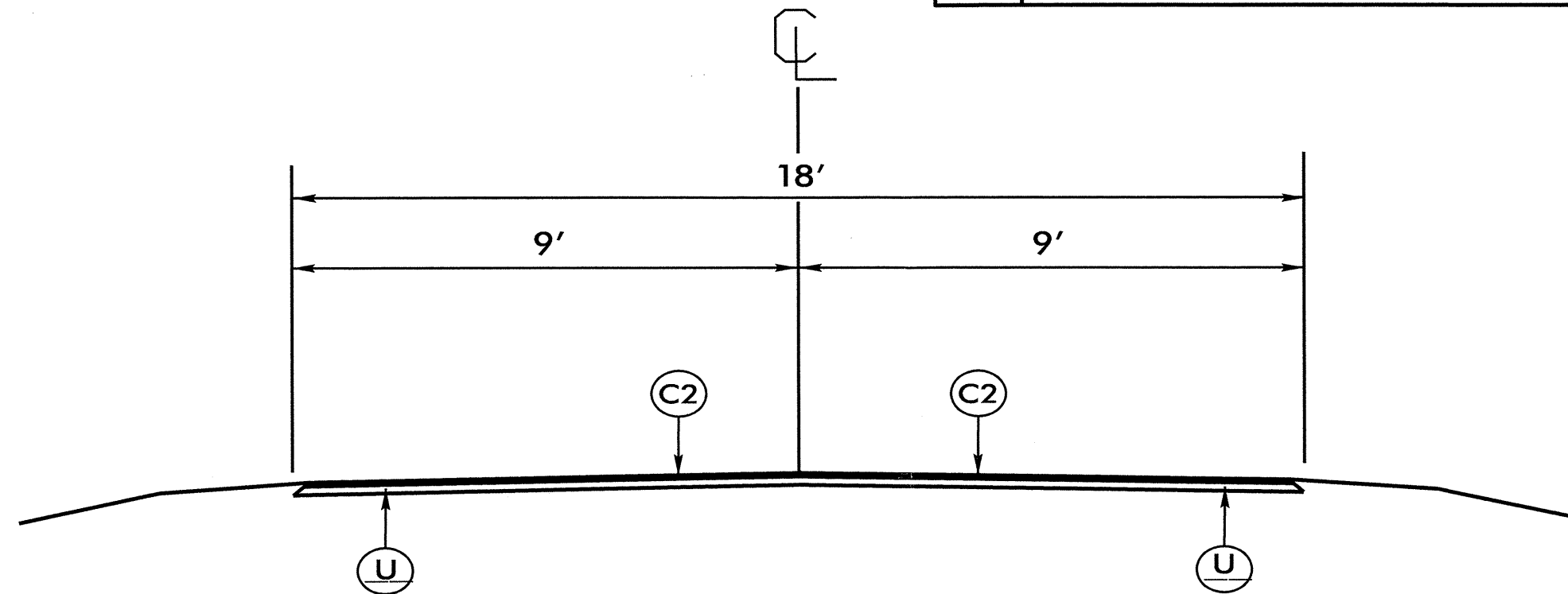
MAP 3

NOTES:

1. ALL PAVED S.R. ROADS TO BE , RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
4. SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS

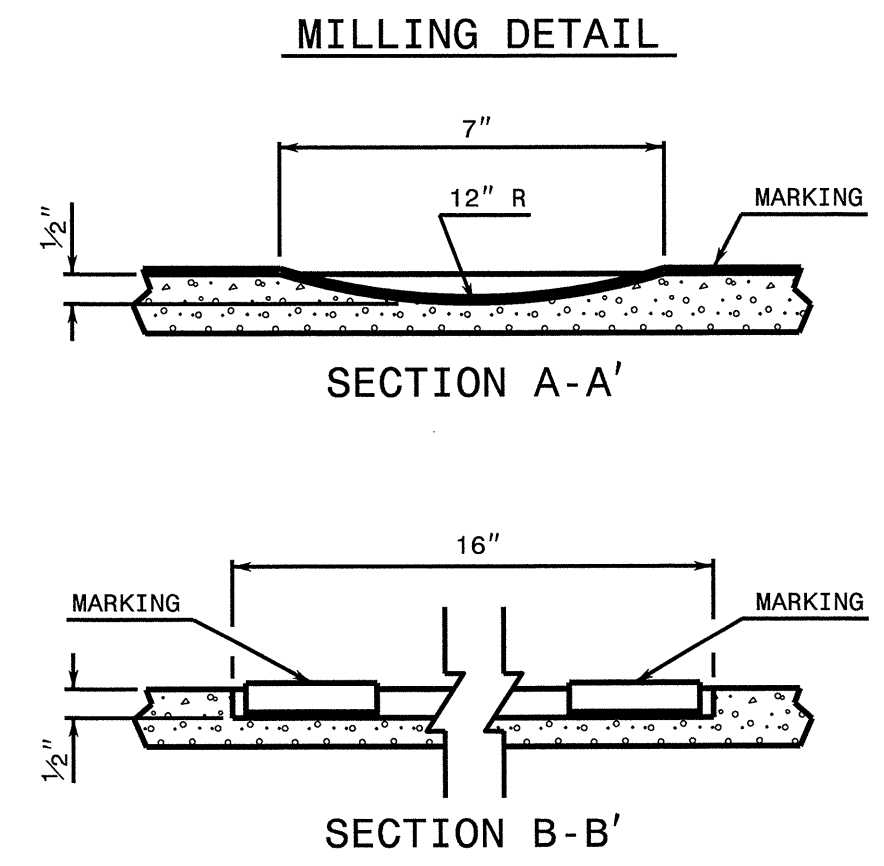
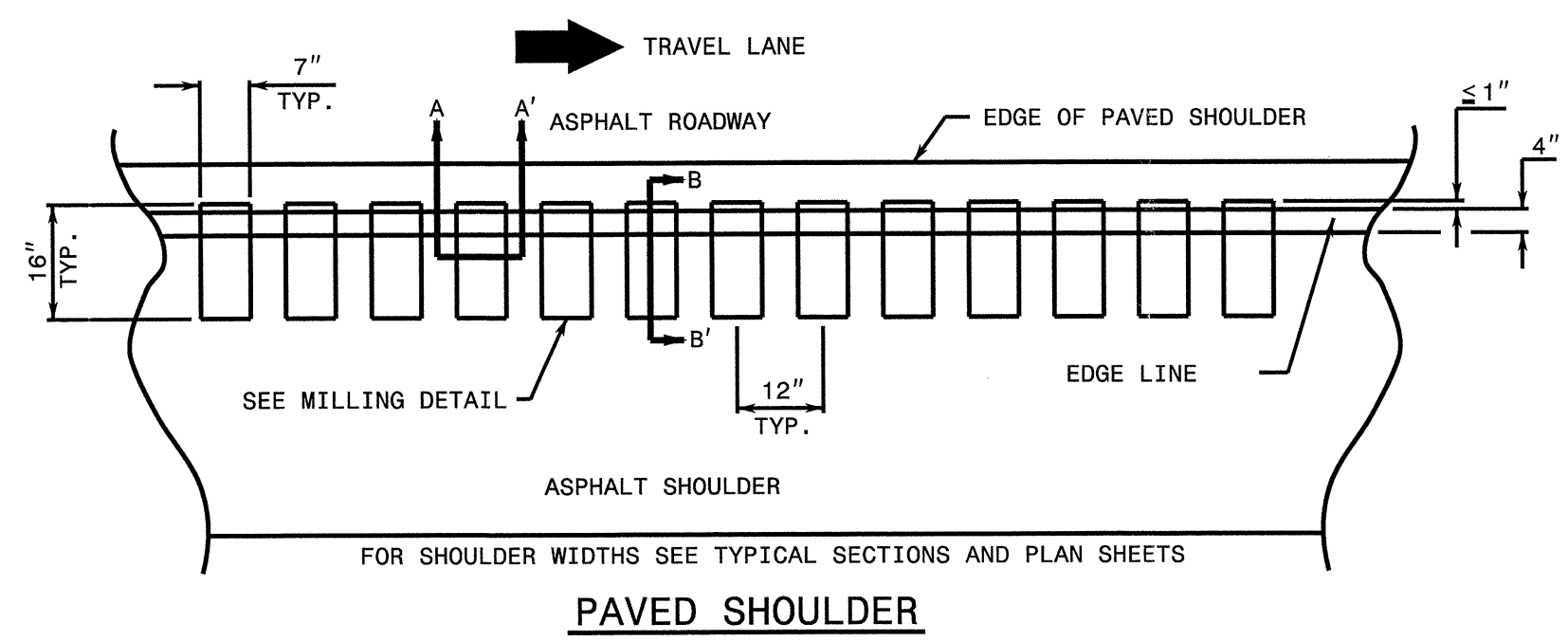
PROJECT REFERENCE NO.	SHEET NO.
1CR.102011.8, ETC.	5

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE COURSE, TYPE SF 9.5 A AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
U	EXISTING PAVEMENT



TYPICAL SECTION #3

USE WITH MAPS 5 & 6



NOTE:

- 1) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 3) PLACE MARKINGS AS SHOWN IN THIS DETAIL ON BOTH EDGELINES IN BOTH DIRECTIONS

PROJECT NO.	SHEET NO.	TOTAL NO.
1CR.10211.8, ETC.	7 0	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	2" MILLING SY	0" TO 2" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TON	MILLED RUMBLE STRIPS (ASPHALT CONCRETE) LF
1CR.10211.8	Chowan	1	US 17 NORTH BOUND LANE	FROM CHOWAN RIVER BRIDGE TO END BARRIER RAIL	1	NO	0.55	32	1	12,367			1,381		83	5,808
1CR.10211.8	Chowan	2	US 17 NORTH BOUND LANE	FROM END BARRIER RAIL TO PERQUIMANS COUNTY LINE	4	NO	7.61	32	*		2,066	1,376	18,760		1,126	71,130
1CR.10211.9	Chowan	3	US 17 SOUTH BOUND LANE	FROM PERQUIMANS COUNTY LINE TO BEG .BARRIER RAIL	5	NO	7.61	32	*		2,134	1,422	18,032		1,082	71,820
1CR.10211.9	Chowan	4	US 17 SOUTH BOUND LANE	FROM BEG BARRIER RAIL TO CHOWAN RIVER BRIDGE	2	NO	0.49	33	*	11,230			1,262		76	5,180
1CR.20211.21	Chowan	5	SR 1200	FROM SR 1202 TO NC 32	3	NO	1.7	18	*					1,640	110	
1CR.20211.22	Chowan	6	SR 1304	FROM NC 32 TO SR 1334	3	NO	1.4	18	*					1,351	91	
GRAND TOTAL							19.36		1	23,597	4,200	2,798	39,435	2,991	2,568	153,938

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	TEMPORARY TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	6" X 90 M WHITE THERMO LF	6" X 90 M YELLOW THERMO LF	6" X 120 M WHITE THERMO LF	12" X 90 M WHITE THERMO LF	12" X 120 M WHITE THERMO LF
1CR.10211.8	Chowan	1	US 17 NORTH BOUND LANE	FROM CHOWAN RIVER BRIDGE TO END BARRIER RAIL	0.55	32	1				2,904	2,904	726	700	
1CR.10211.8	Chowan	2	US 17 NORTH BOUND LANE	FROM END BARRIER RAIL TO PERQUIMANS COUNTY LINE	7.61	32	*	4,635	4,635	1,922	45,565	35,680	10,040		
1CR.10211.9	Chowan	3	US 17 SOUTH BOUND LANE	FROM PERQUIMANS COUNTY LINE TO BEG .BARRIER RAIL	7.61	32	*	4,595	4,595	1,922	35,910	36,060	10,442		
1CR.10211.9	Chowan	4	US 17 SOUTH BOUND LANE	FROM BEG BARRIER RAIL TO CHOWAN RIVER BRIDGE	0.49	33	*				2,590	2,590	775		482
1CR.20211.21	Chowan	5	SR 1200	FROM SR 1202 TO NC 32	1.7	18	*								
1CR.20211.22	Chowan	6	SR 1304	FROM NC 32 TO SR 1334	1.4	18	*								
GRAND TOTAL					19.36		1	9,230	9,230	3,844	86,969	77,234	21,983	700	482
								18,460			164,203				

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	24" X 120 M WHITE THERMO LF	THERMO LT ARROW 90 M EA	MERGE ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	12" WHITE PAINT LF	24" WHITE PAINT LF	CRYSTAL & RED MARKERS EA	YELLOW & YELLOW MARKERS EA
1CR.10211.8	Chowan	1	US 17 NORTH BOUND LANE	FROM CHOWAN RIVER BRIDGE TO END BARRIER RAIL	0.55	32					3,630	2,904	700		72	
1CR.10211.8	Chowan	2	US 17 NORTH BOUND LANE	FROM END BARRIER RAIL TO PERQUIMANS COUNTY LINE	7.61	32	40	7	27	1	60,240	40,315	4,780	40	481	24
1CR.10211.9	Chowan	3	US 17 SOUTH BOUND LANE	FROM PERQUIMANS COUNTY LINE TO BEG .BARRIER RAIL	7.61	32		5	24		52,869	40,655	4,506		481	
1CR.10211.9	Chowan	4	US 17 SOUTH BOUND LANE	FROM BEG BARRIER RAIL TO CHOWAN RIVER BRIDGE	0.49	33			3		3,365	2,590	482		63	
1CR.20211.21	Chowan	5	SR 1200	FROM SR 1202 TO NC 32	1.7	18					18,292	11,220				
1CR.20211.22	Chowan	6	SR 1304	FROM NC 32 TO SR 1334	1.4	18					15,064	9,240				
GRAND TOTAL					19.36		40	12	54	1	153,460	106,924	10,468	40	1,097	24
								67			260,384				1,121	