

03/28/09

WBS ELEMENT: ICR.10281.12, ETC.

DRAWN BY: JGC DATE: 09/14/2010
CHECKED BY: DATE:

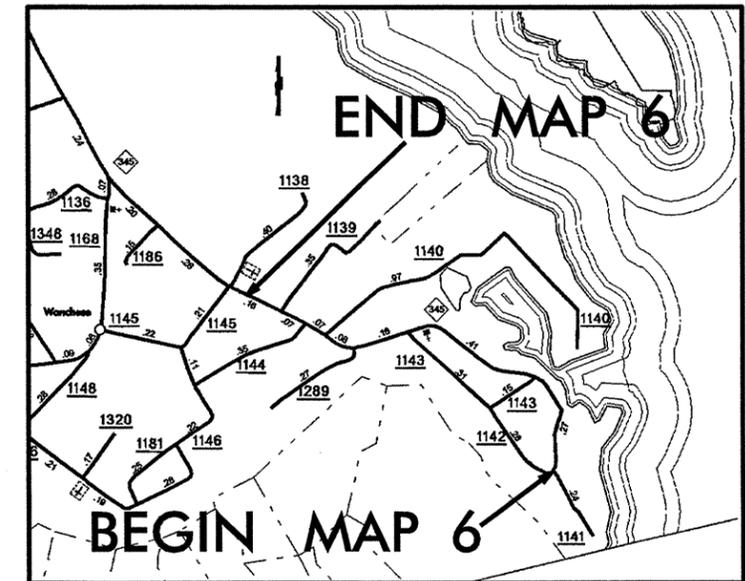
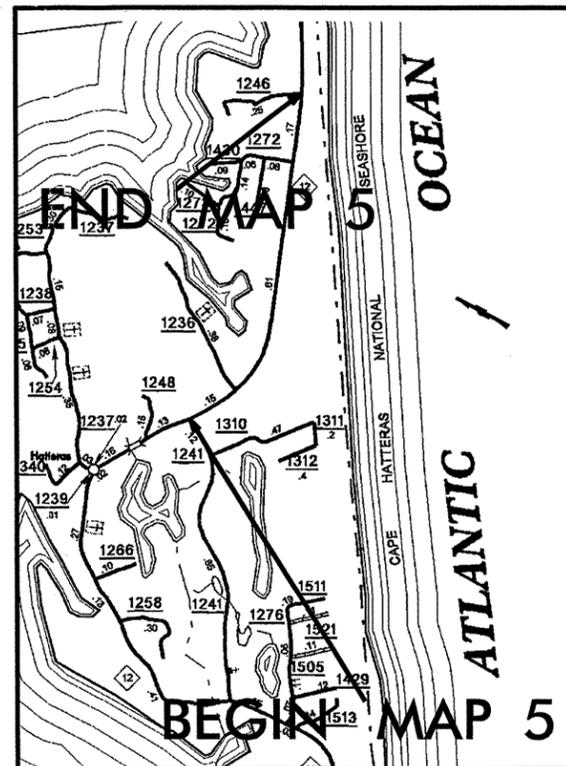
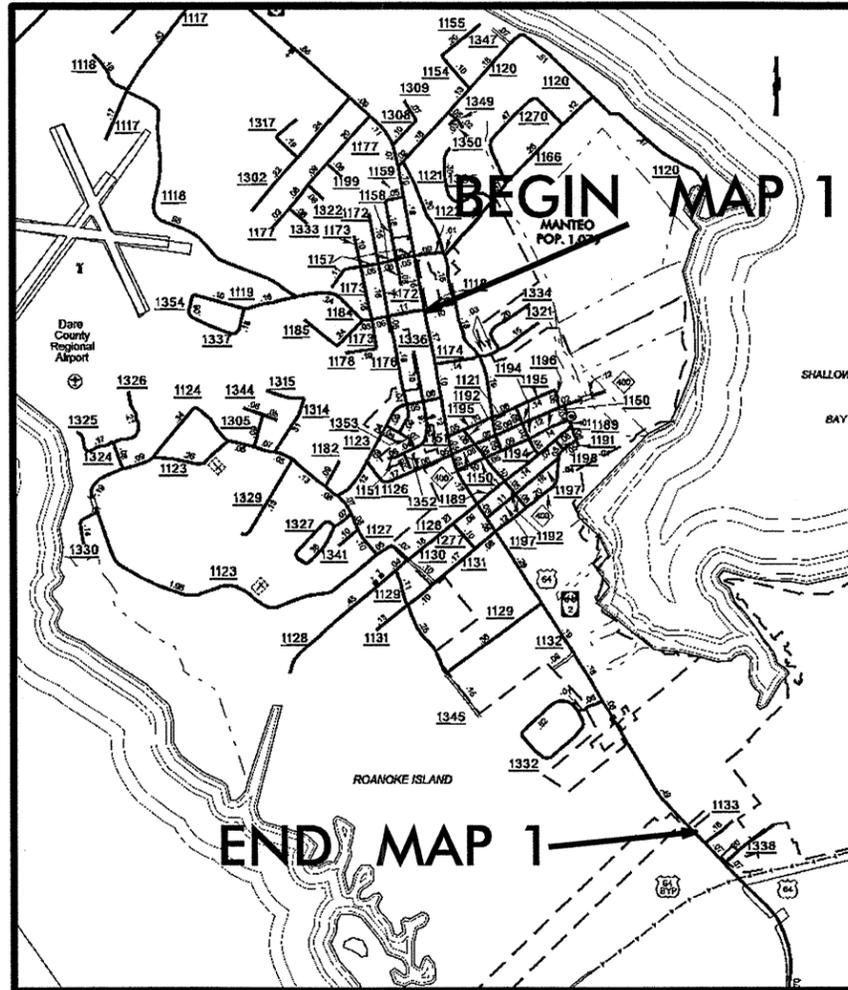
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DARE COUNTY

LOCATION: MAP 1 US 64 FROM M. COLLINS DR. TO SR 1118
MAP 5 NC 12 FROM SR 1241 TO SR 1246
MAP 6 NC 345 FROM SR 1141 TO SR 1168

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	ICR.10281.12, ETC	2	9
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
ICR.10281.12		MAP 1	
ICR.10281.13		MAP 2	
ICR.10281.14		MAP 3	
ICR.10281.15		MAP 4	
ICR.10281.16		MAP 5	
ICR.10281.17		MAP 6	

TYPE OF WORK: MILLING, RESURFACING & PAVEMENT MARKINGS



NTS

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP 1 = 1.79 MI.
LENGTH OF ROADWAY PROJECT MAP 5 = 0.87 MI.
LENGTH OF ROADWAY PROJECT MAP 6 = 1.56 MI.

Prepared in the Office of:
DIVISION OF HIGHWAYS

113 Airport Dr., Edenton NC, 27932

2006 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



C	1.5" S9.5B @168 LBS SQ.YARD
U	EXISTING PAVEMENT
T	EARTH MATERIAL

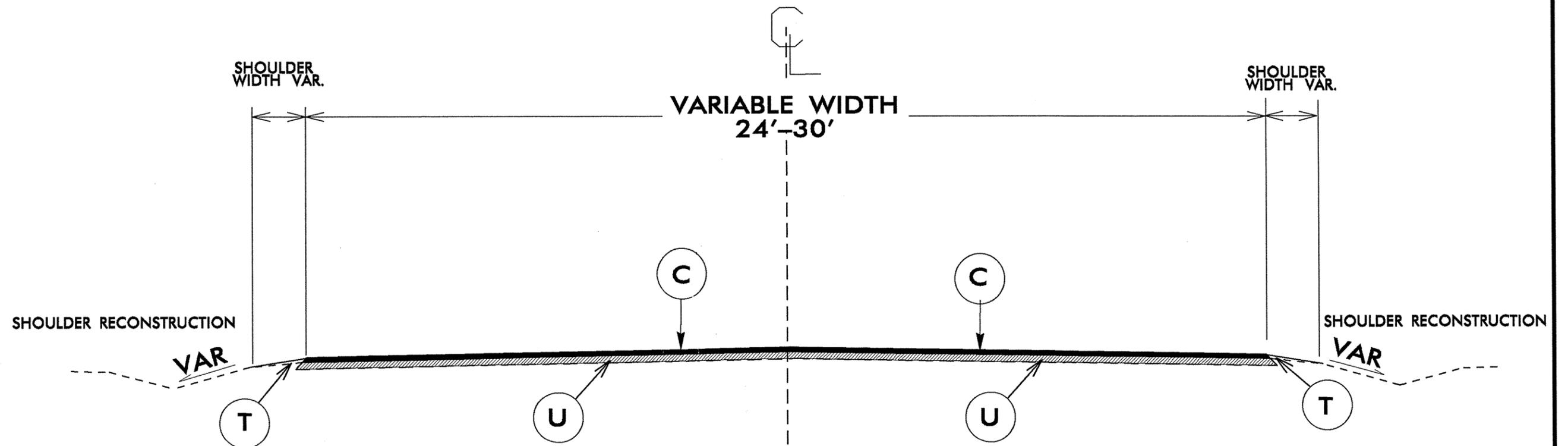
MAPS	PAVEMENT WIDTHS
3,4,6	24'
5	30'

NOTES:

*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI., OR AS DIRECTED BY THE ENGINEER

*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES

*PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



TYPICAL SECTION NO.1

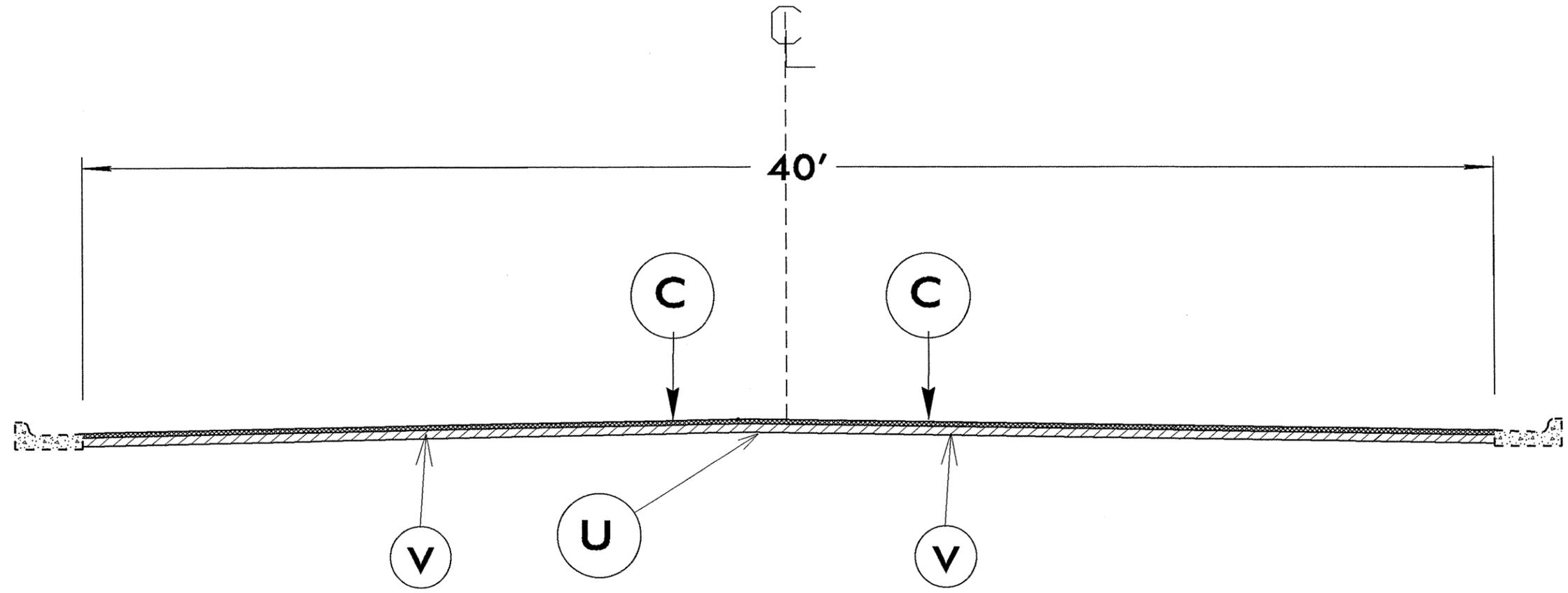
NTS

SYSTEMS DESIGN

C	1.5" S9.5B @168 LBS SQ.YARD
U	EXISTING PAVEMENT
V	MILLING ASPHALT PAVEMENT: 1.5"

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI., OR AS DIRECTED BY THE ENGINEER
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
- *PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
- *DO NOT MILL SIDE ROADS



TYPICAL SECTION #2

NTS

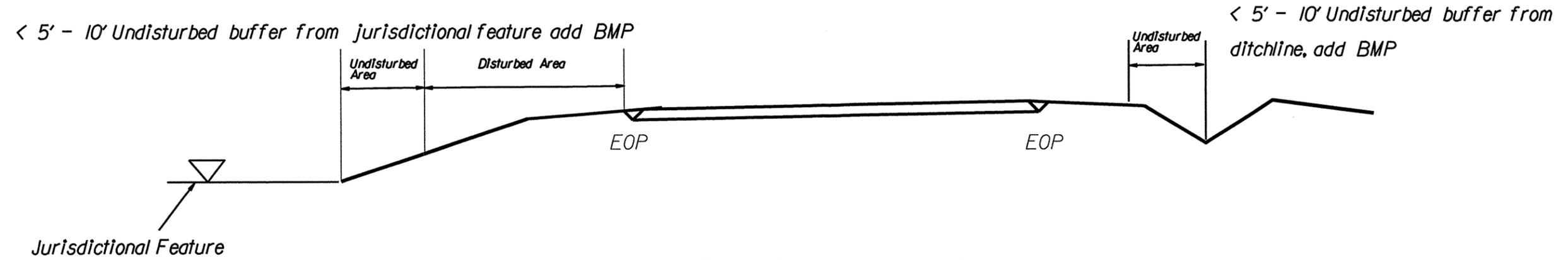
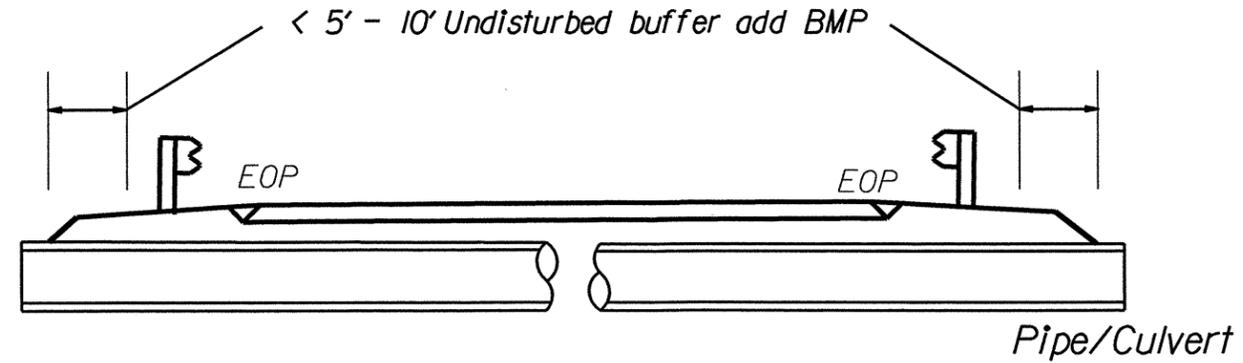
SYSTEMS DESIGN
 CONSULTANTS
 INC.

PROJECT REFERENCE NO.	SHEET NO.
1CR.10281.12, etc.	6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

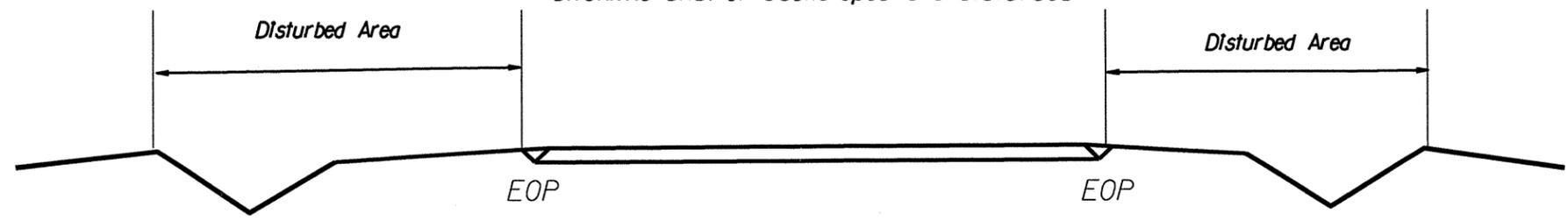
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

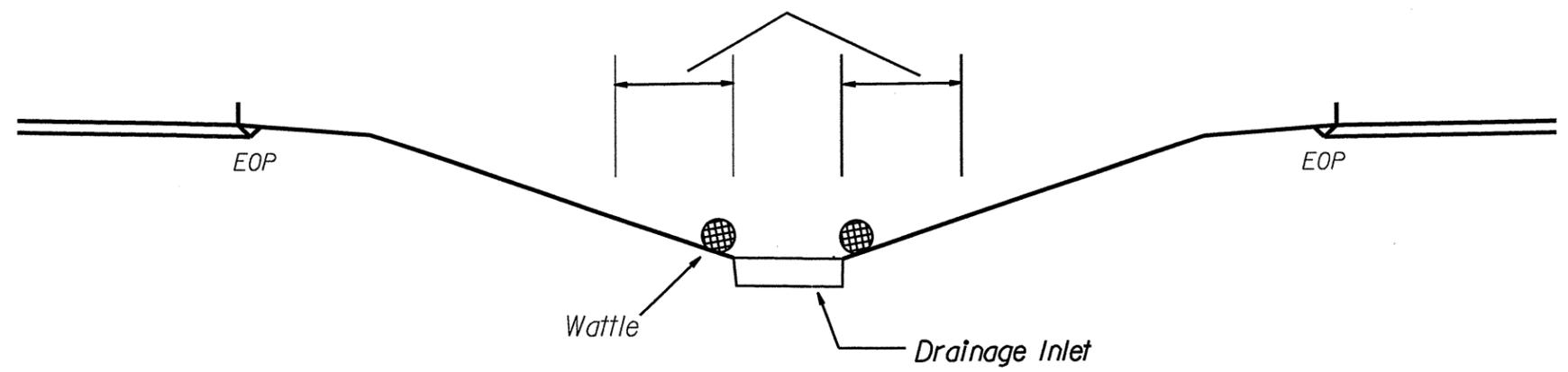
EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



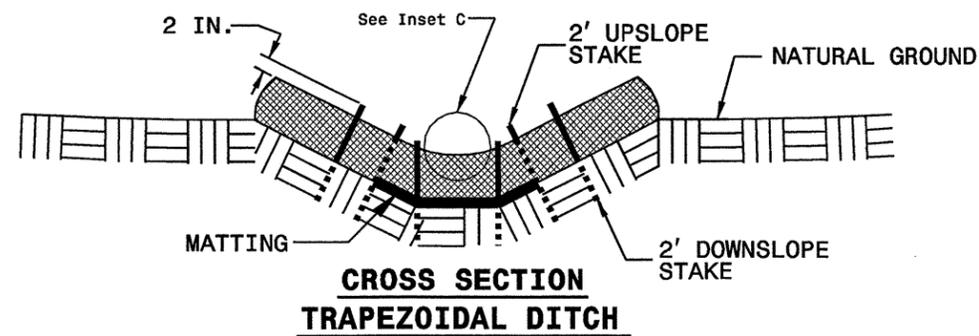
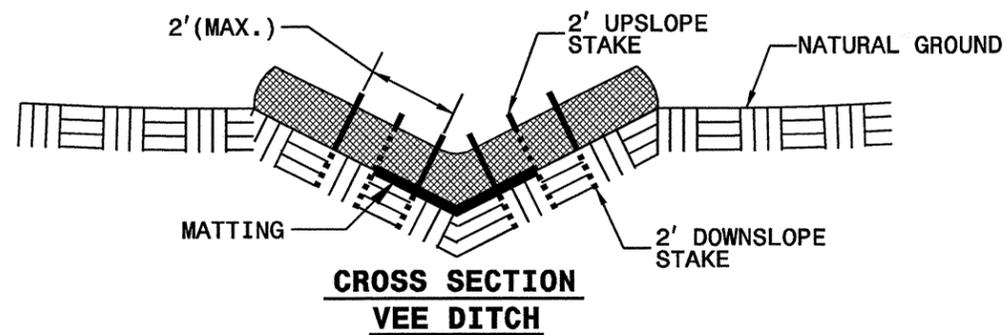
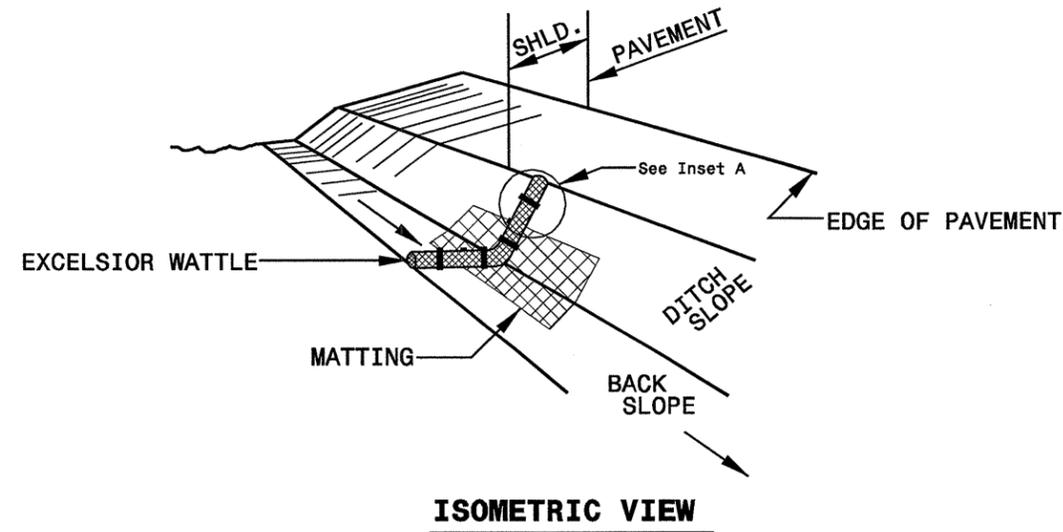
< 5' - 10' Undisturbed buffer from inlet, add wattle



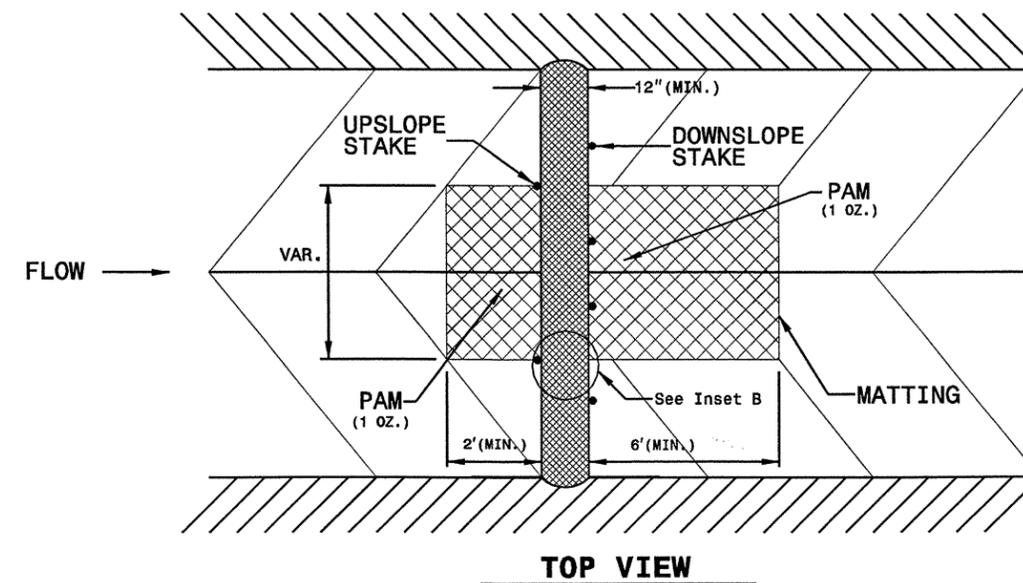
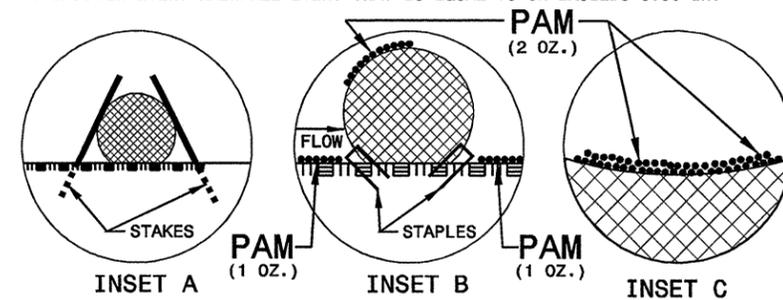
NOT TO SCALE

PROJECT REFERENCE NO. -1CR.1028).12	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

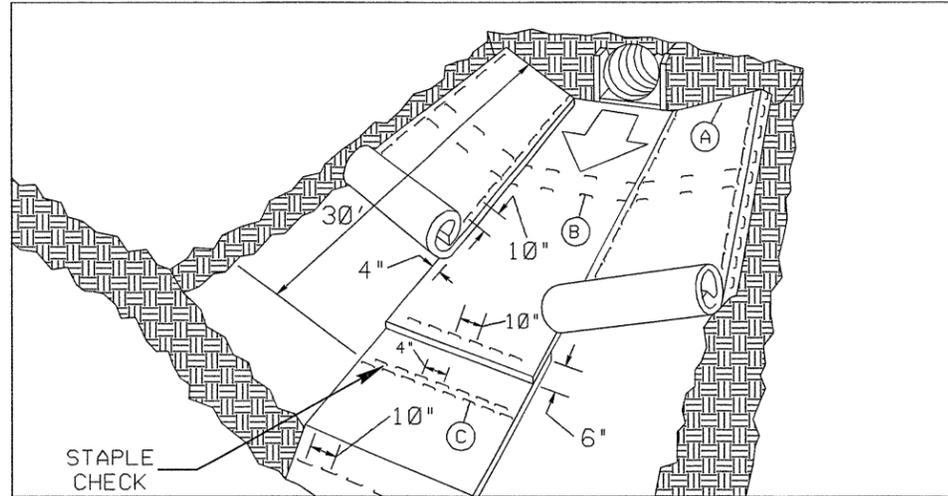


- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO. 1CR.10281.12	SHEET NO. 3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

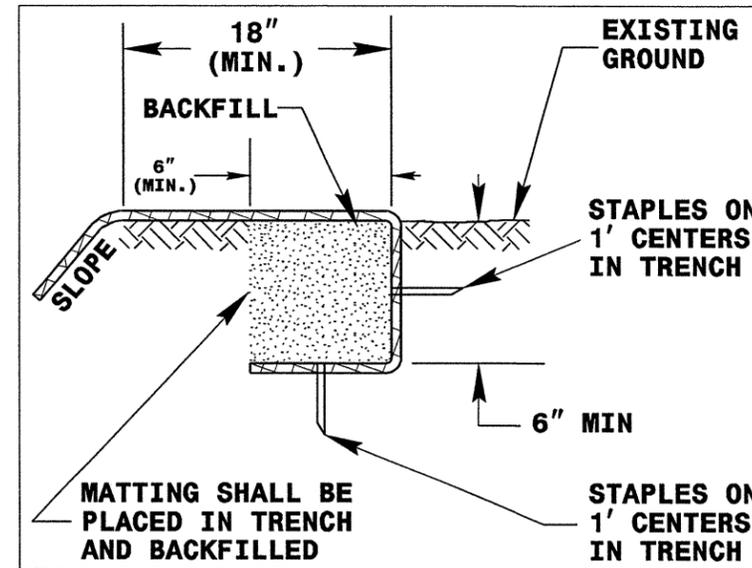
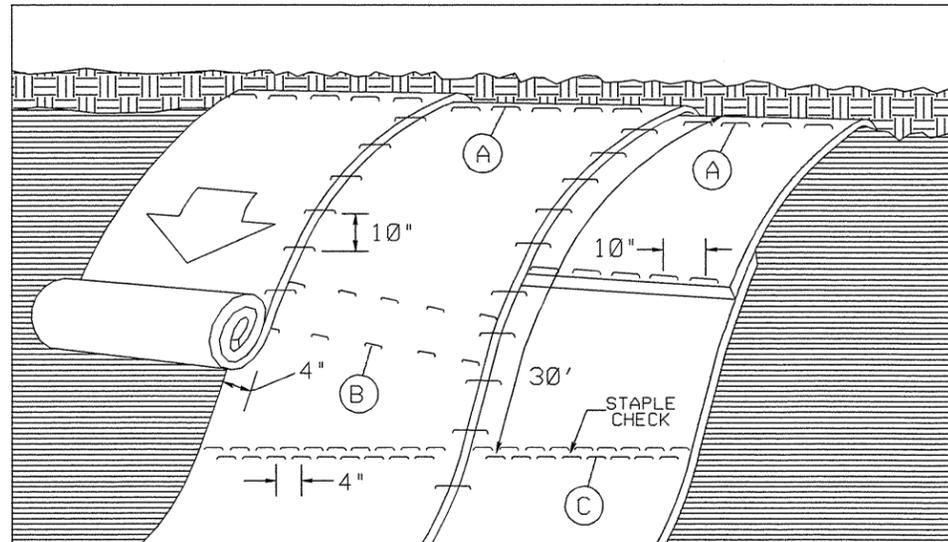


DIAGRAM (A)



MATTING ON SLOPES

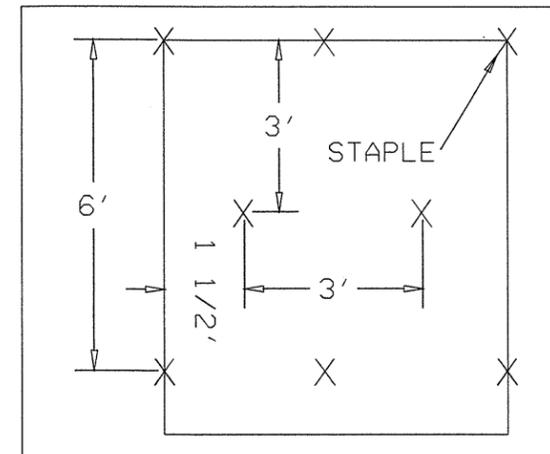


DIAGRAM (B)

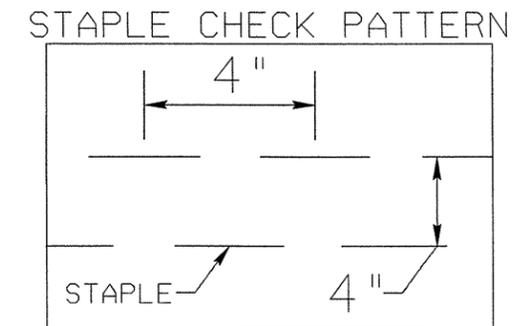


DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

PROJECT NO.	SHEET NO.	TOTAL NO.
1CR.10281.12, ETC.	9	9

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	0000100000-N	0106000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1519000000-E	1560000000-E	2815000000-N	2830000000-N	2845000000-N	6000000000-E	6037000000-E	6070010000-E	6070020000-E	6084000000-E		
									MOBILIZATION LS	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TON	PG 64-22 PLANT MIX TON	ADJ. OF DROP INLET EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	TEMP SILT FENCE LF	COIR FIBER MAT SY	WATTLE LF	POLY-ACRYLAMIDE (PAM) LBS	SEED & MULCHING ACR		
1CR.10281.12	Dare	1	US 64/264	FROM M. COLLINS DR. TO SR 1118	2	NO	1.79	40	0.10					42,005		3,589	215			4	18					
TOTAL FOR MAP NO. 1							1.79	40	0.10					42,005		3,589	215			4	18					
TOTAL FOR PROJ NO. 1CR.10281.12							1.79	40	0.10					42,005		3,589	215			4	18					
1CR.10281.13	Dare	2	NC 12	FROM CHANGE OF PAVEMENT TO SR 1417	3	NO	1.44	44	0.08	58				2.88		3,331	200		2		25	300	32	80	7	1.05
TOTAL FOR MAP NO. 2							1.44	44	0.08	58				2.88	0	3,331	200		2		25	300	32	80	7	1.05
TOTAL FOR PROJ NO. 1CR.10281.13							1.44	44	0.08	58				2.88	0	3,331	200		2		25	300	32	80	7	1.05
1CR.10281.14	Dare	3	US 64	FROM ALLIGATOR RIVER BRIDGE TO SR 1169	1	NO	5.85	24	0.34	234				11.8		7,755	465					300	32	80	7	0.5
TOTAL FOR MAP NO. 3							5.85	24	0.34	234				11.8	0	7,755	465					300	32	80	7	0.5
TOTAL FOR PROJ NO. 1CR.10281.14							5.85	24	0.34	234				11.8	0	7,755	465					300	32	80	7	0.5
1CR.10281.15	Dare	4	US64	FROM US 264 TO SR 1169	1	NO	5.58	24	0.33	223	5			11.16		6,669	400					300	32	80	7	8.12
TOTAL FOR MAP NO. 4							5.58	24	0.33	223	5			11.16	0	6,669	400					300	32	80	7	8.12
TOTAL FOR PROJ NO. 1CR.10281.15							5.58	24	0.33	223	5			11.16	0	6,669	400					300	32	80	7	8.12
1CR.10281.16	Dare	5	NC 12	FROM SR 1241 TO SR 1246	1	NO	0.87	30	0.05	35	25			1.74		1,392	84					300	32	80	7	1.27
TOTAL FOR MAP NO. 5							0.87	30	0.05	35	25			1.74	0	1,392	84					300	32	80	7	1.27
TOTAL FOR PROJ NO. 1CR.10281.16							0.87	30	0.05	35	25			1.74	0	1,392	84					300	32	80	7	1.27
1CR.10281.17	Dare	6	NC 345	FROM SR 1141 TO SR 1168	1	NO	1.56	24	0.09	62	25			3.12		2,190	131					300	32	80	7	2.27
TOTAL FOR MAP NO. 6							1.56	24	0.09	62	25			3.12	0	2,190	131					300	32	80	7	2.27
TOTAL FOR PROJ NO. 1CR.10281.17							1.56	24	0.09	62	25			3.12	0	2,190	131					300	32	80	7	2.27
GRAND TOTAL							17.09		1	612	55		30.7	42,005	420	24,926	1,495	2	4	43	1,500	160	400	35	13.21	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4589000000-N	4721000000-E	4725000000-E			4810000000-E	4825000000-E	4835000000-E	4900000000-N	
					GENERIC TRAFFIC CONTROL ITEM LS	THERMO MSG SCHOOL 120 M EA	THERMO LT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	4" YELLOW PAINT LF	4" WHITE PAINT LF	12" WHITE PAINT LF	24" WHITE PAINT LF	YELLOW & YELLOW MARKERS EA
1CR.10281.12	Dare	1	US 64/264	FROM M. COLLINS DR. TO SR 1118	0.167	24	56	2	16	70,884		3,900	125	
TOTAL FOR MAP NO. 1					0.167	24	56	2	16	70,884		3,900	125	
TOTAL FOR PROJ NO. 1CR.10281.12					0.167	24	56	2	16	70,884		3,900	125	
							74			70,884				
1CR.10281.13	Dare	2	NC 12	FROM CHANGE OF PAVEMENT TO SR 1417	0.167					38,016	30,988	12,300	1,112	
TOTAL FOR MAP NO. 2					0.167					38,016	30,988	12,300	1,112	
TOTAL FOR PROJ NO. 1CR.10281.13					0.167					38,016	30,988	12,300	1,112	
										69,004				
1CR.10281.14	Dare	3	US 64	FROM ALLIGATOR RIVER BRIDGE TO SR 1169	0.167					77,220	124,000		410	
TOTAL FOR MAP NO. 3					0.167					77,220	124,000		410	
TOTAL FOR PROJ NO. 1CR.10281.14					0.167					77,220	124,000		410	
										201,220				
1CR.10281.15	Dare	4	US64	FROM US 264 TO SR 1169	0.167					73,656	120,082		368	
TOTAL FOR MAP NO. 4					0.167					73,656	120,082		368	
TOTAL FOR PROJ NO. 1CR.10281.15					0.167					73,656	120,082		368	
										193,738				
1CR.10281.16	Dare	5	NC 12	FROM SR 1241 TO SR 1246	0.167					17,226	18,722		57	
TOTAL FOR MAP NO. 5					0.167					17,226	18,722		57	
TOTAL FOR PROJ NO. 1CR.10281.16					0.167					17,226	18,722		57	
										35,948				
1CR.10281.17	Dare	6	NC 345	FROM SR 1141 TO SR 1168	0.167	12				20,592	33,572	376	206	
TOTAL FOR MAP NO. 6					0.167	12				20,592	33,572	376	206	
TOTAL FOR PROJ NO. 1CR.10281.17					0.167	12				20,592	33,572	376	206	
										54,164				
GRAND TOTAL					1	36	56	2	16	297,594	327,364	12,300	5,388	1,166
							74			624,958				

