

09/08/95

DRAWN BY: UCC  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

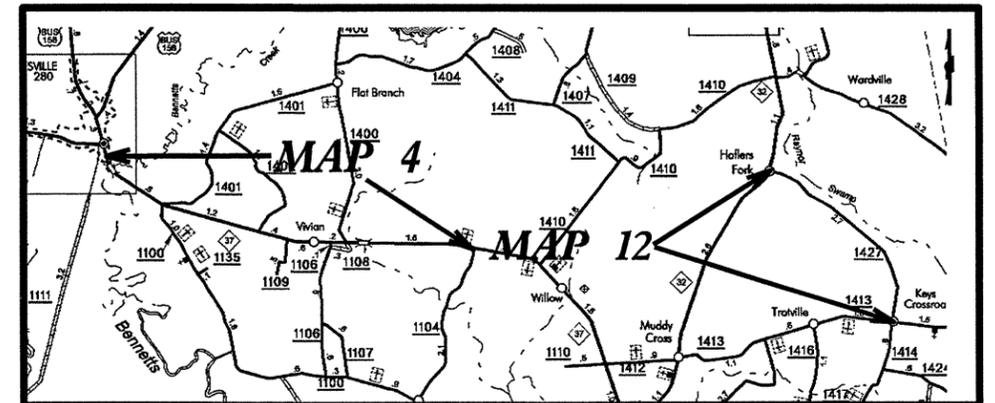
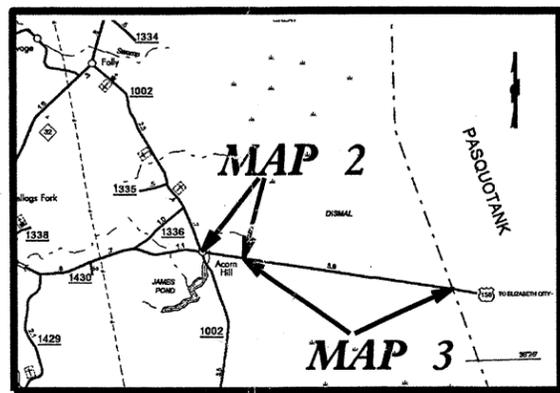
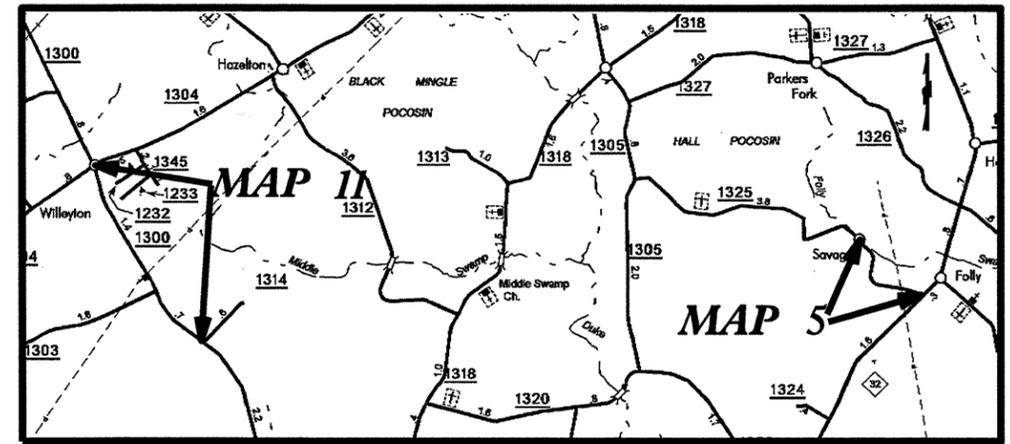
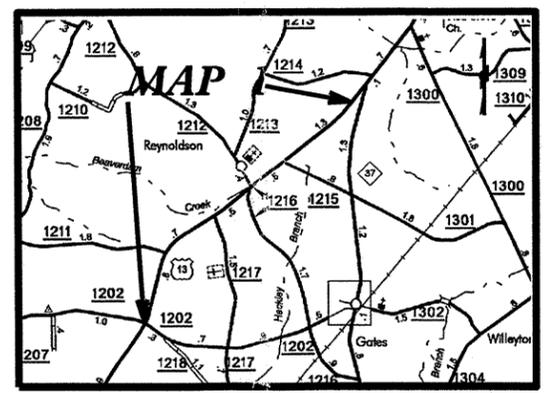
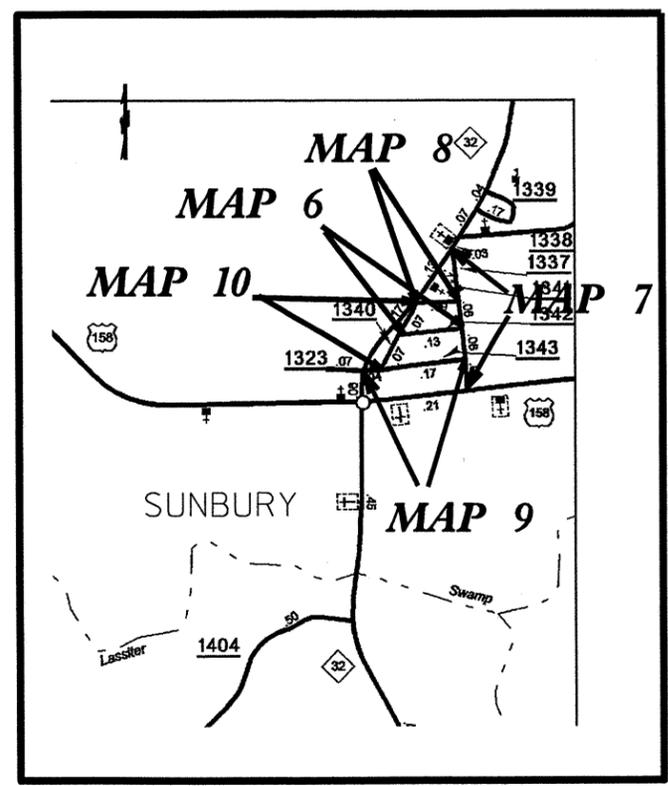
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**GATES COUNTY**

**LOCATION:** MAP 1 US 13 FROM SR 1202 TO WIDTH CHANGE  
 MAP 2 US 158 FROM SR 1002 TO PAVEMENT CHANGE  
 MAP 3 US 158 FROM PAVEMENT CHANGE TO PASQUOTANK COUNTY LINE  
 MAP 4 NC 37 FROM SR 1104 TO CURB & GUTTER IN GATESVILLE  
 MAP 5 SR 1325 FROM NC 32 TO END OF PAVMT  
 MAP 6 SR 1342 FROM SR 1337 TO SR 1340  
 MAP 7 SR 1337 FROM US 158 TO NC 32  
 MAP 8 SR 1341 FROM SR 1337 TO SR 1340  
 MAP 9 SR 1343 FROM NC 32 TO SR 1337  
 MAP 10 SR 1340 FROM SR 1343 TO SR 1341  
 MAP 11 SR 1300 FROM SR 1314 TO SR 1304  
 MAP 12 SR 1427 FROM NC 32 TO SR 1413

**TYPE OF WORK: RESURFACING AND PAVEMENT MARKINGS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	ICR.10371.11 ETC	1	11
STATE PROJ. NO.	P.A./P.O. NO.	DESCRIPTION	
ICR.10371.11		MAP 1	
ICR.10371.12		MAP 2	
ICR.10371.13		MAP 3	
ICR.10371.14		MAP 4	
ICR.20371.20		MAP 5	
ICR.20371.21		MAP 6	
ICR.20371.22		MAP 7	
ICR.20371.23		MAP 8	
ICR.20371.24		MAP 9	
ICR.20371.25		MAP 10	
ICR.20371.26		MAP 11	
ICR.20371.27		MAP 12	

**WBS ELEMENT: ICR.10371.11, ETC.**



**NTS**

PROJECT LENGTH	
LENGTH OF ROADWAY PROJECT MAP 1	= 3.52 MI.
LENGTH OF ROADWAY PROJECT MAP 2	= 0.6 MI.
LENGTH OF ROADWAY PROJECT MAP 3	= 3.2 MI.
LENGTH OF ROADWAY PROJECT MAP 4	= 4.64 MI.
LENGTH OF ROADWAY PROJECT MAP 5	= 1.1 MI.
LENGTH OF ROADWAY PROJECT MAP 6	= 0.13 MI.
LENGTH OF ROADWAY PROJECT MAP 7	= 0.28 MI.
LENGTH OF ROADWAY PROJECT MAP 8	= 0.08 MI.
LENGTH OF ROADWAY PROJECT MAP 9	= 0.2 MI.
LENGTH OF ROADWAY PROJECT MAP 10	= 0.16 MI.
LENGTH OF ROADWAY PROJECT MAP 11	= 2.17 MI.
LENGTH OF ROADWAY PROJECT MAP 12	= 2.6 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



03/08/99  
 DRAWN BY: JSC  
 CHECKED BY:  
 DATE: 09/22/00  
 DATE:

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

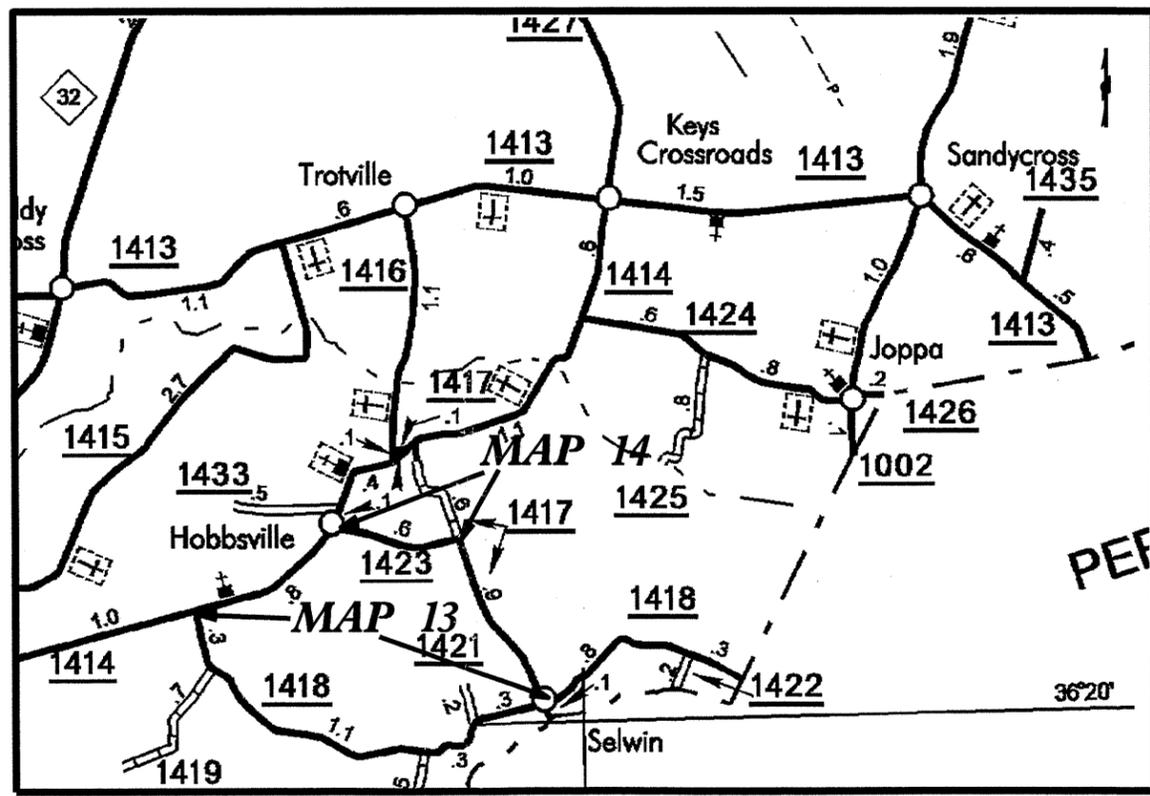
**GATES COUNTY**

LOCATION: MAP 13 SR 1418 FROM SR 1414 TO SR 1417  
 MAP 14 SR 1423 FROM SR 1414 TO SR 1417

TYPE OF WORK: RESURFACING AND PAVEMENT MARKINGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	ICR.10371.11 ETC	2	11
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
1C.037030		MAP 13	
1C.037031		MAP 14	

WBS ELEMENT: ICR.10371.11, ETC.



**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 13 = 2.1 MI.  
 LENGTH OF ROADWAY PROJECT MAP 14 = 0.6 MI.

Prepared in the Office of  
**DIVISION OF HIGHWAYS**  
 113 Airport Dr., Eden 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_	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U_	EXISTING PAVEMENT.

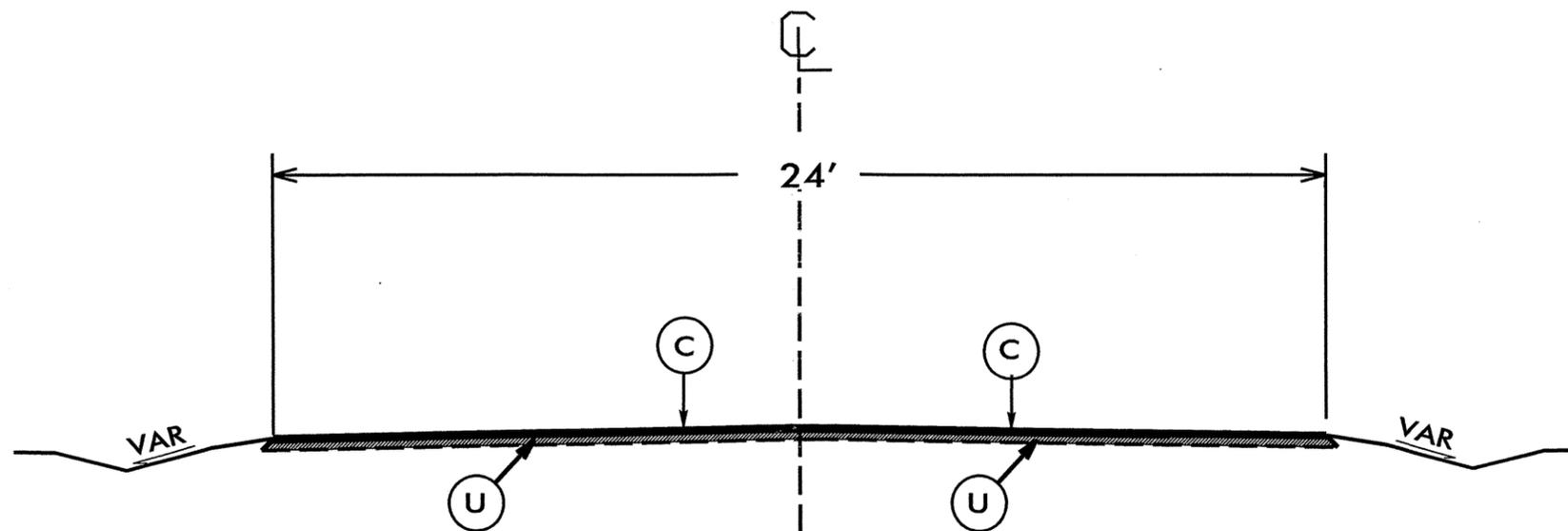
NOTES:

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

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

\* SHOULDERS TO BE RECONSTRUCTED BY OTHERS

\*PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



**TYPICAL SECTION NO.1**

**USE WITH MAP #4**

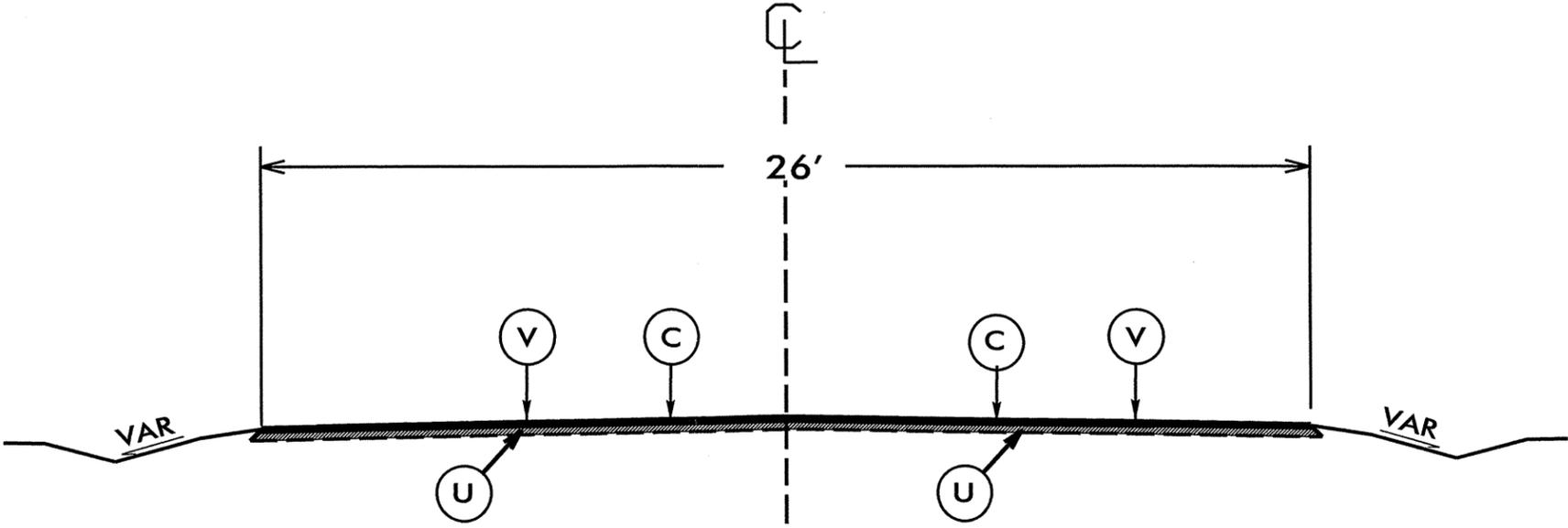
NTS

\*\*\*\*\*  
SYSTEMS  
\*\*\*\*\*

C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
V	MILLING ASPHALT PAVEMENT 1½" DEPTH

NOTES:

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



**TYPICAL SECTION NO.2**

USE WITH MAPS #1 & #2

NTS

\*\*\*\*\*  
 SYSTEM \*\*\*\*\*  
 \*\*\*\*\*



C_	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U_	EXISTING PAVEMENT.

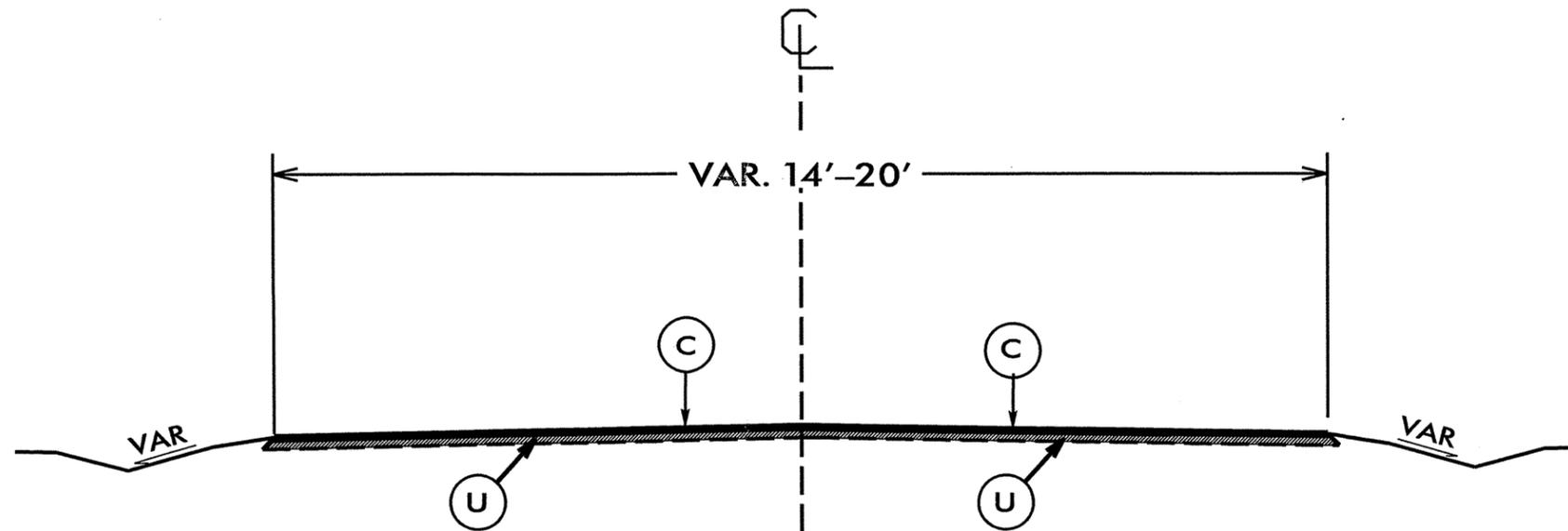
NOTES:

\*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII,  
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

\* SHOULDERS TO BE RECONSTRUCTED BY OTHERS



### TYPICAL SECTION NO.4

USE WITH MAPS #5 - #12

NTS

\*\*\*\*\*SYTIME\*\*\*\*\*  
\*\*\*\*\*DRAWING\*\*\*\*\*

PROJECT REFERENCE NO.	SHEET NO.
1CR.10371.11, ETC.	7

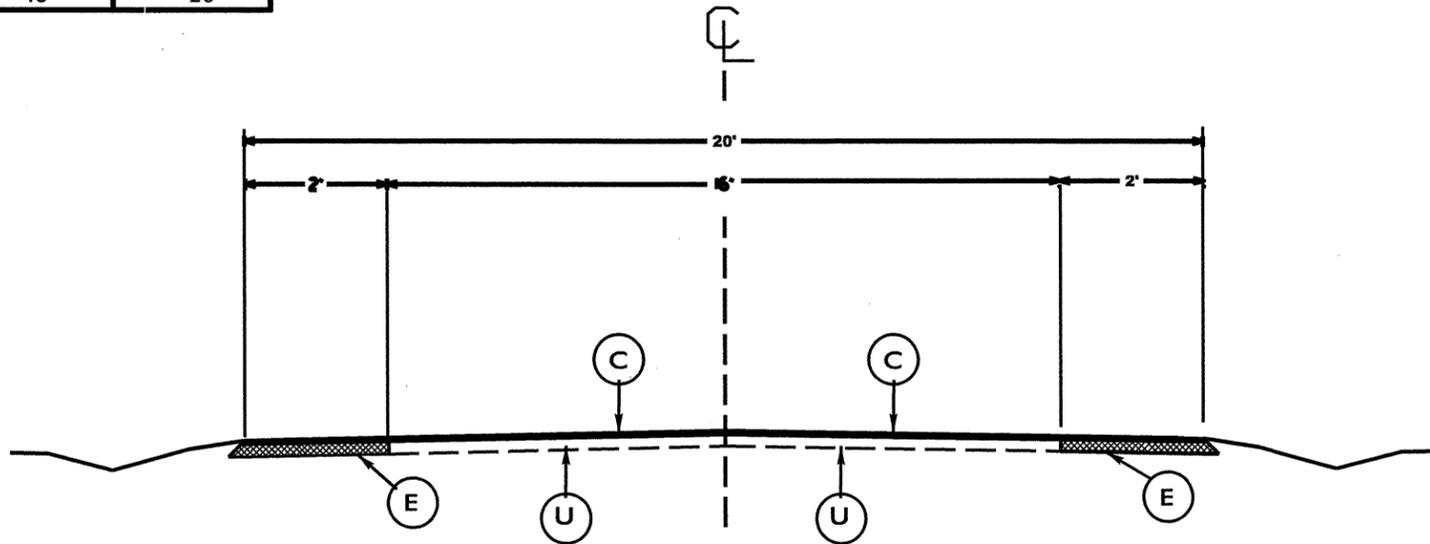
C_	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U_	EXISTING PAVEMENT.
E_	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.

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
- \* SHOULDERS TO BE RECONSTRUCTED BY OTHERS

MAPS	PAVEMENT WIDTH	
	EXISTING	PROPOSED
13 & 14	16'	20'

# TYPICAL SECTIONS



## TYPICAL SECTION NO.5

USE WITH MAPS #13 & #14

NTS

\*\*\*\*\*SYSTEM\*\*\*\*\*  
\*\*\*\*\*DATE\*\*\*\*\*  
\*\*\*\*\*DRAWN\*\*\*\*\*

Sht. no. 8

PROJECT NO.	TOTAL NO.
1CR.10371.11, ETC.	9

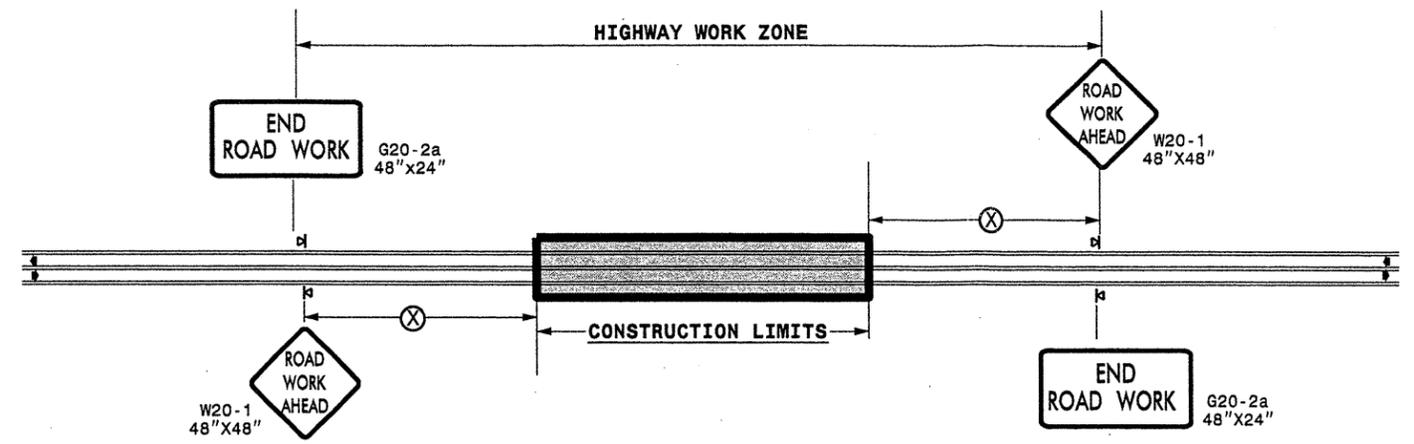
### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	000010000-N MOBILIZATION LS	0156000000-E REMOVAL OF EXISTING ASPHALT PAVEMENT SY	0163000000-E REMOVAL OF EXISTING CONCRETE PAVEMENT SY	1220000000-E INCIDENTAL STONE BASE TONS	1330000000-E INCIDENTAL MILLING SY	1297000000-E 1½" MILLING SY	1308000000-E 3" Milling SY	1489000000-E BASE COURSE, B25.0B TONS	1519000000-E SURFACE COURSE, S9.5B TONS	1525000000-E SURFACE COURSE, SF9.5A TONS	1560000000-E PG 64-22 PLANT MIX TONS	2845000000-N ADJ. OF METER OR VALVE BOX EA
1CR.10371.11	Gates	1	US 13	FROM SR 1202 TO WIDTH CHANGE	1	NO	3.52	26	1				145				5,532		332	1
1CR.10371.12	Gates	2	US 158	FROM SR 1002 TO PAVEMENT CHANGE	1	NO	0.6	24	*					8,448			838		50	1
1CR.10371.13	Gates	3	US 158	FROM PAVEMENT CHANGE TO PASQUOTANK CO. LINE	1	NO	3.2	24	*						45,056		3,854		231	
1CR.10371.14	Gates	4	NC 37	FROM END OF CURB AND GUTTER TO SR 1104	1	NO	4.64	24	*			5					5,916		355	
1CR.20371.20	Gates	5	SR 1325	FROM NC 32 TO END OF PAVEMENT	2	NO	1.1	20	*			5						1,181	77	
1CR.20371.21	Gates	6	SR 1342	FROM SR 1343 TO SR 1340	2	NO	0.13	14	*			1						119	8	
1CR.20371.22	Gates	7	SR 1337	FROM US 158 TO NC 32	2	NO	0.28	16	*									269	17	
1CR.20371.23	Gates	8	SR 1341	FROM SR 1343 TO SR 1340	2	NO	0.08	15	*			1						89	6	
1CR.2037.24	Gates	9	SR 1343	NC 32 TO SR 1337	2	NO	0.2	16	*			1						206	13	
1CR.20371.25	Gates	10	SR 1340	FROM SR 1343 TO SR 1341	2	NO	0.16	16	*			1						135	9	
1CR.20371.26	Gates	11	SR 1300	FROM SR 1314 TO SR 1304	2	NO	2.17	20	*			1						2,174	141	
1CR.20371.27	Gates	12	SR 1427	FROM NC 32 TO SR 1413	2	NO	2.6	18	*			3						2,331	152	
1C.037030	Gates	13	SR 1418	FROM SR 1414 TO SR 1417	3	NO	2.1	20	*			30						2,256	237	
1C.037031	Gates	14	SR 1423	FROM SR 1414 TO SR 1417	3	NO	0.6	20	*	15	25	10					2,108	642	58	
<b>GRAND TOTAL</b>							<b>21</b>		<b>1</b>	<b>15</b>	<b>25</b>	<b>58</b>	<b>145</b>	<b>8,448</b>	<b>45,056</b>	<b>2,490</b>	<b>16,140</b>	<b>9,402</b>	<b>1,686</b>	<b>2</b>

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4589000000-N	4810000000-E		4835000000-E	4900000000-N
					GENERIC TRAFFIC CONTROL ITEM LS	4" WHITE PAINT LF	4" YELLOW PAINT LF	24" WHITE PAINT LF	YELLOW & YELLOW MARKERS EA
1CR.10371.11	Gates	1	US 13	FROM SR 1202 TO WIDTH CHANGE	1	113,625	46,464		246
1CR.10371.12	Gates	2	US 158	FROM SR 1002 TO PAVEMENT CHANGE	*	19,368	7,920		42
1CR.10371.13	Gates	3	US 158	FROM PAVEMENT CHANGE TO PASQUOTANK CO. LINE	*	68,864	42,240		224
1CR.10371.14	Gates	4	NC 37	FROM END OF CURB AND GUTTER TO SR 1104	*	99,852	61,248		306
1CR.20371.20	Gates	5	SR 1325	FROM NC 32 TO END OF PAVEMENT	*	23,672	14,520	7,620	
1CR.20371.21	Gates	6	SR 1342	FROM SR 1343 TO SR 1340	*				
1CR.20371.22	Gates	7	SR 1337	FROM US 158 TO NC 32	*		3,696		
1CR.20371.23	Gates	8	SR 1341	FROM SR 1343 TO SR 1340	*		1,056		
1CR.2037.24	Gates	9	SR 1343	NC 32 TO SR 1337	*		2,640		
1CR.20371.25	Gates	10	SR 1340	FROM SR 1343 TO SR 1341	*				
1CR.20371.26	Gates	11	SR 1300	FROM SR 1314 TO SR 1304	*	46,698	28,644		
1CR.20371.27	Gates	12	SR 1427	FROM NC 32 TO SR 1413	*	55,952	34,320		
1C.037030	Gates	13	SR 1418	FROM SR 1414 TO SR 1417	*	45,192	27,720		
1C.037031	Gates	14	SR 1423	FROM SR 1414 TO SR 1417	*	12,912	7,920		
<b>GRAND TOTAL</b>					<b>1</b>	<b>486,135</b>	<b>278,388</b>	<b>7,620</b>	<b>818</b>
						<b>764,523</b>			

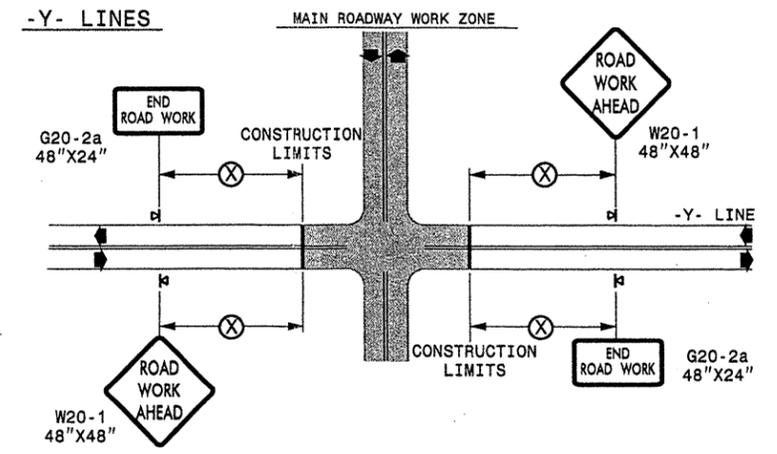
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

**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.

**LEGEND**

◀ PORTABLE SIGN

◀ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING  
FOR TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED: _____ DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS	
SEAL	SCALE: NONE	
	DATE: 11/10	
	DESIGN BY: _____	
	REVIEWED BY: _____	
		REVISIONS

19-NOV-2010 09:39  
 \\DOT\DFSROOT\GROUPS-WZTCCC\M&S Division\Share\Resur\facings\2011\Div\01\202679A-N\CR\0371\lletc...Gates\_US13\_158\_NC37\_mSRs\_AKP\C202xxxxA-F\CR\0371\lletc...m6\_2wayundivurbf.rws\July2006.p  
 okspotel AT WZTCC244748

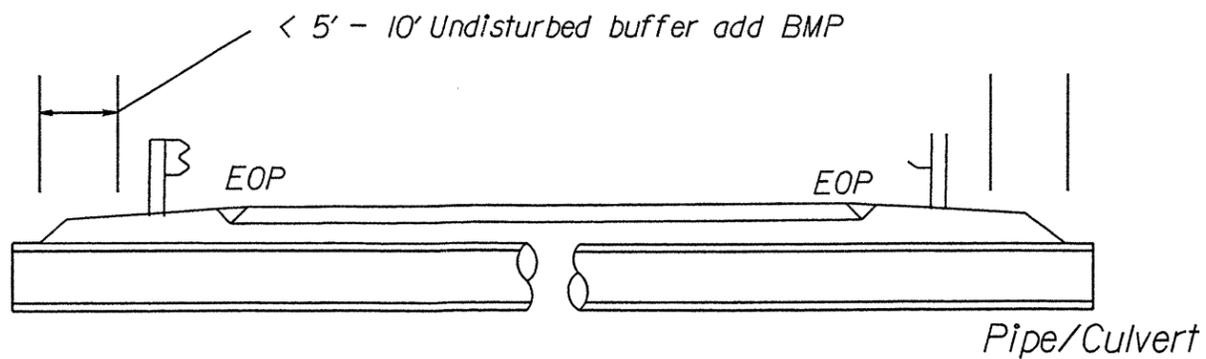
8/17/99

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

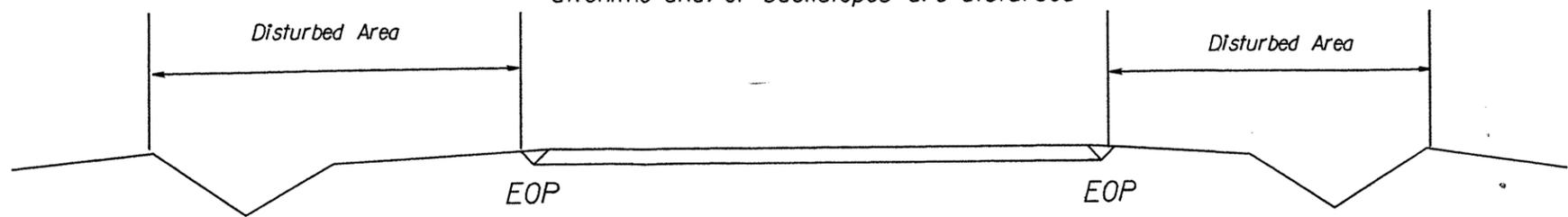
BMP Options: Wattle or Silt Fence

# EROSION CONTROL DETAIL

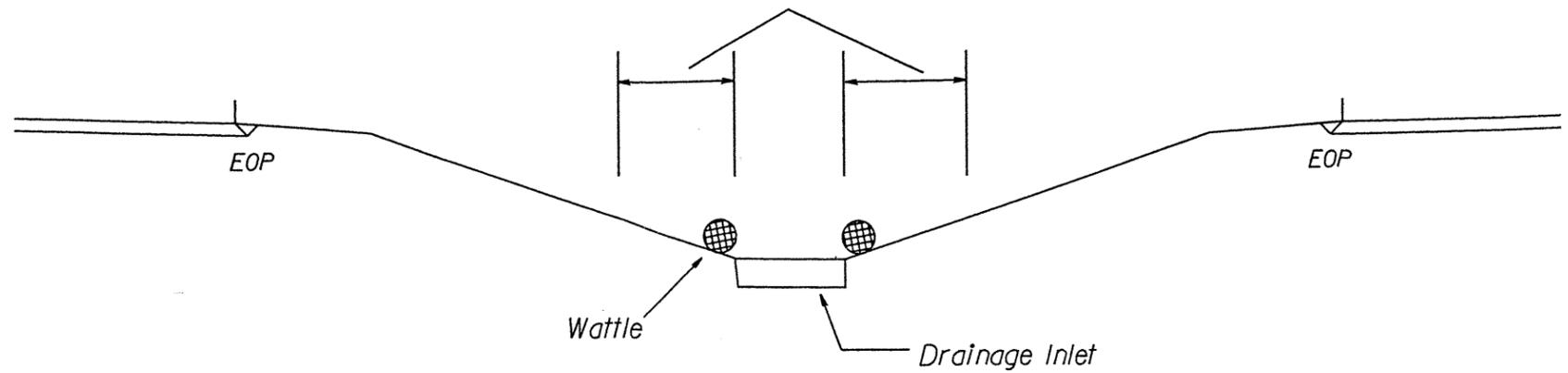
PROJECT REFERENCE NO. 1CR.103711, etc.	SHEET NO. 60
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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



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



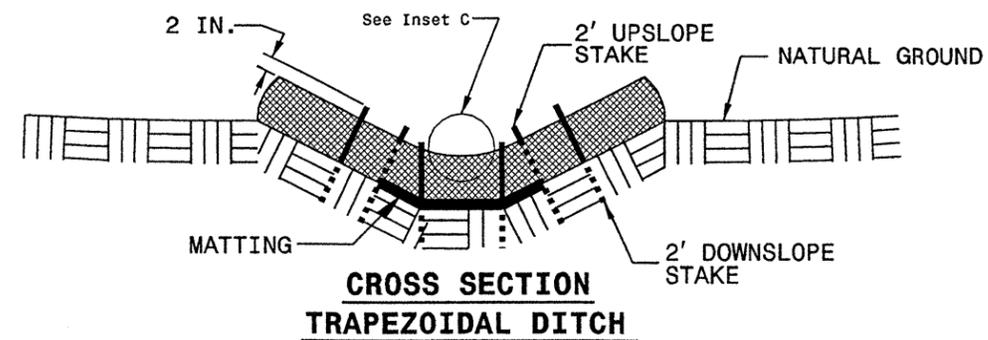
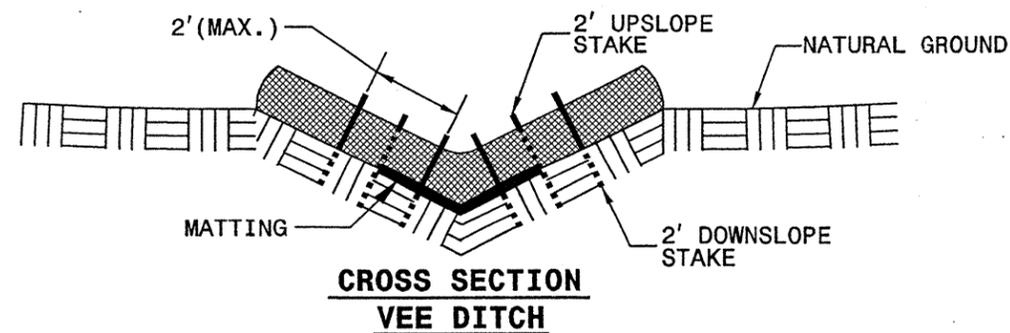
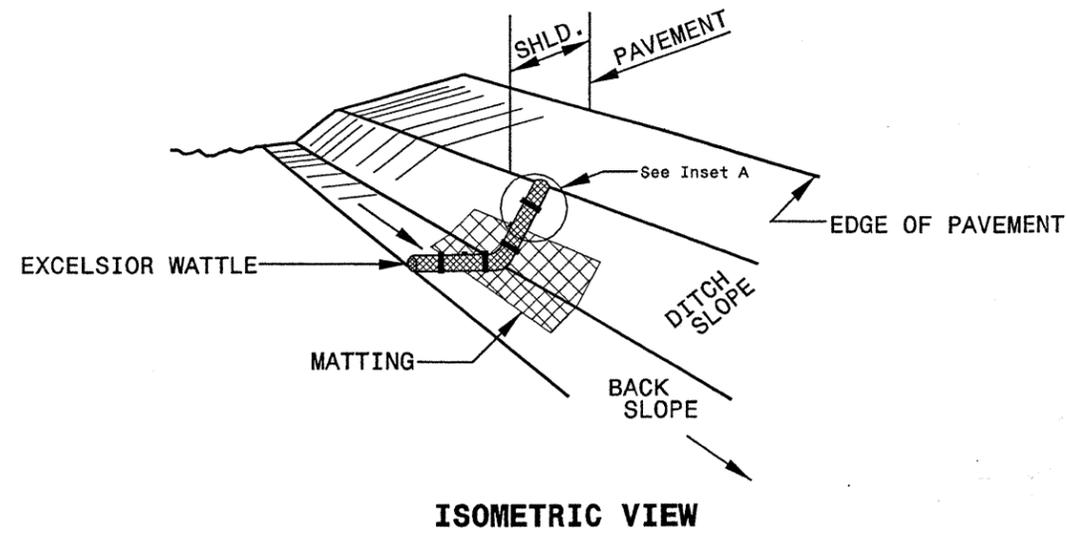
NOT TO SCALE

REVISIONS

SYSTEMS

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

PROJECT REFERENCE NO. X-XXXX	SHEET NO. EC-26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**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.

