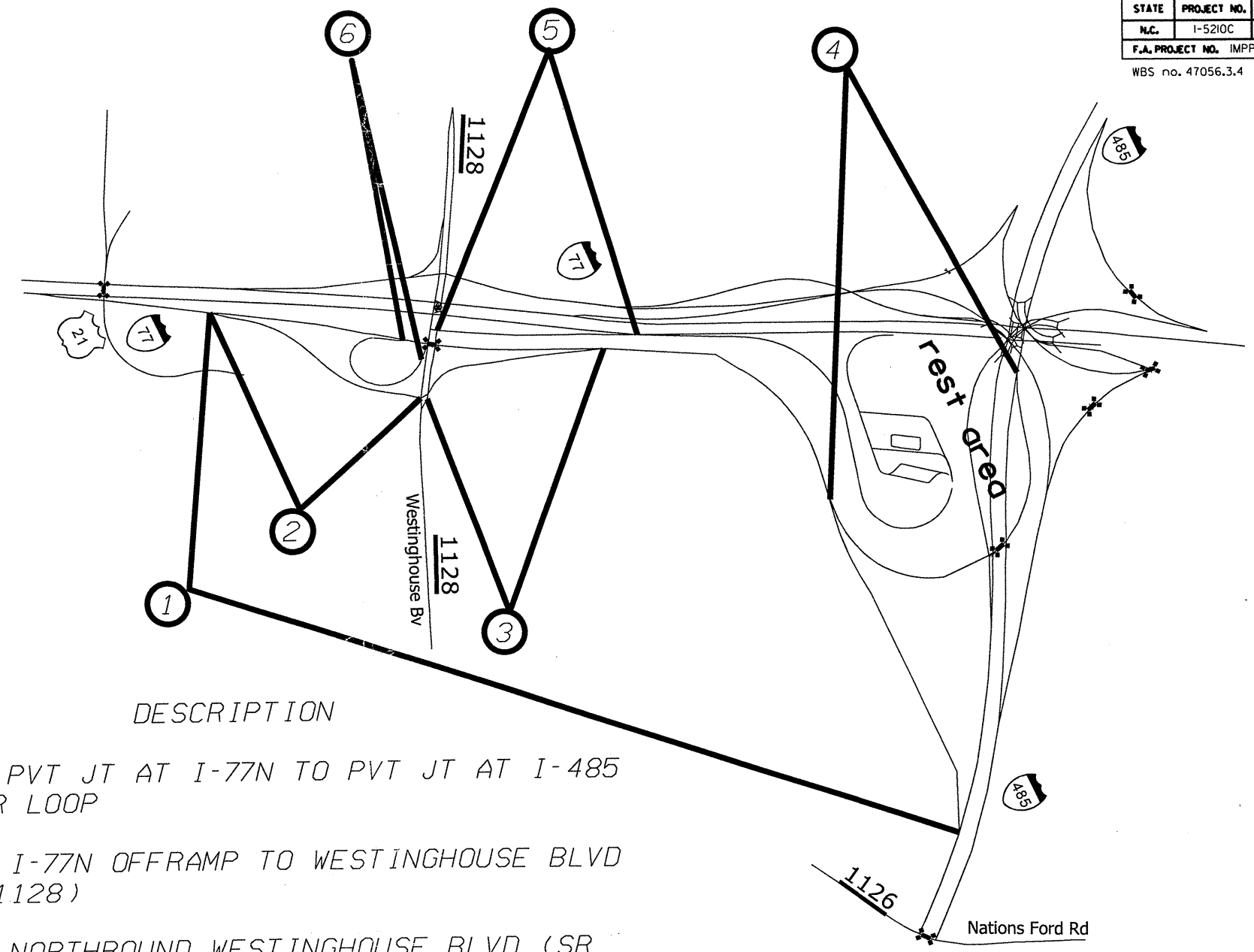
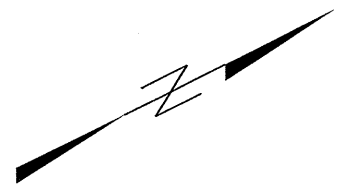


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5210C	1	
F.A. PROJECT NO. IMPP-077-(K211)4			

WBS no. 47056.3.4



MAP

DESCRIPTION

- | | | |
|---|--|---|
| 1 | I-77N OFFRAMP | FROM PVT JT AT I-77N TO PVT JT AT I-485 OUTER LOOP |
| 2 | I-77N OFFRAMP/WESTINGHOUSE BLVD ONRAMP | FROM I-77N OFFRAMP TO WESTINGHOUSE BLVD (SR 1128) |
| 3 | WESTINGHOUSE BLVD OFFRAMP | FROM NORTHBOUND WESTINGHOUSE BLVD (SR 1128) TO I-485 INNER AND OUTER ONRAMP |
| 4 | I-485 INNER ONRAMP | FROM MAP 1 TO I-485 INNER LOOP |
| 5 | I-77N ONRAMP/WESTINGHOUSE BLVD OFFRAMP | FROM WESTINGHOUSE BLVD (SR 1128) TO I-77N |
| 6 | WESTINGHOUSE BLVD ONRAMP | FROM SOUTHBOUND WESTINGHOUSE BLVD TO I-485 INNER AND OUTER ONRAMP |

2012 MECKLENBURG COUNTY

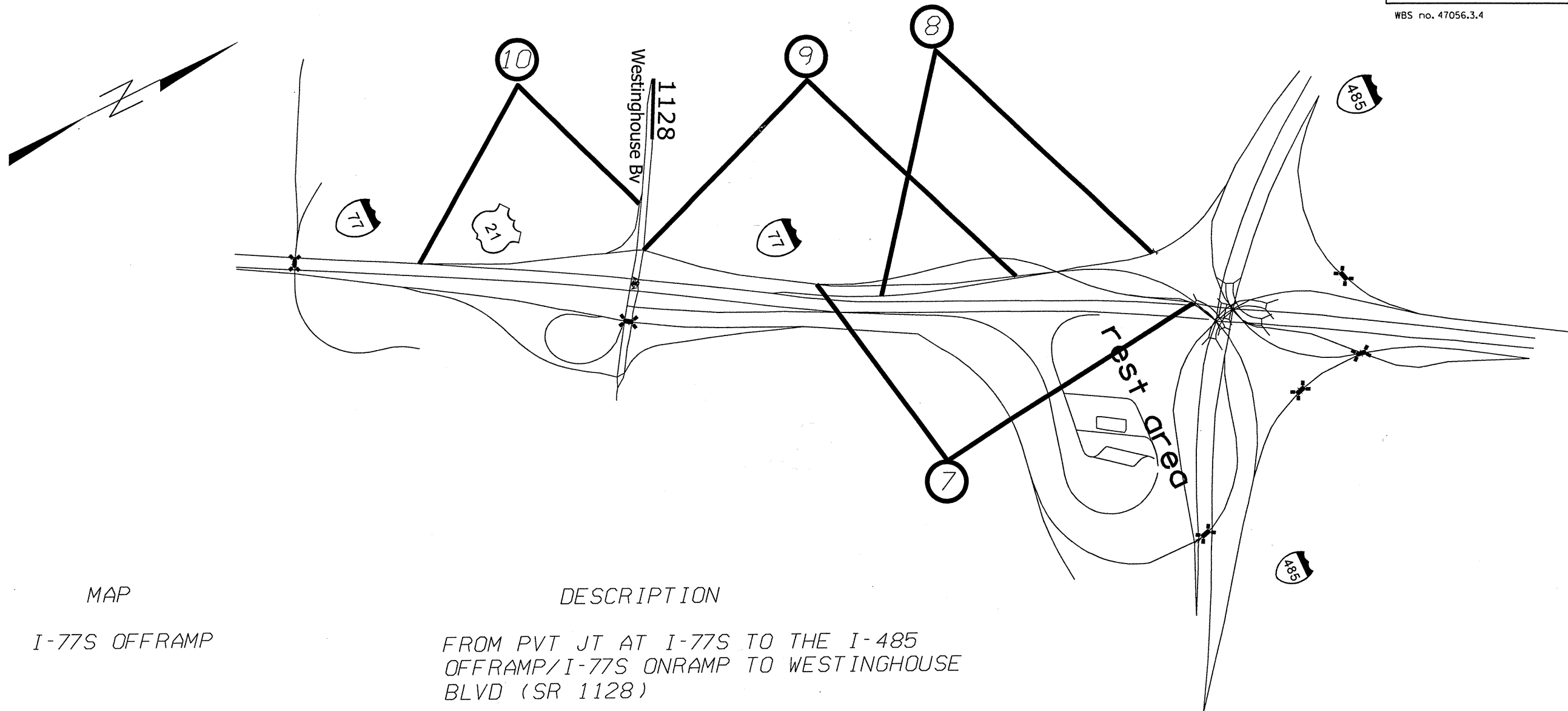
SCALE	-NA-
DATE	07/12
DWG. BY	JSL
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5210C	2	
F.A. PROJECT NO. IMPP-077-(K211)B			


WBS no. 47056.3.4



MAP

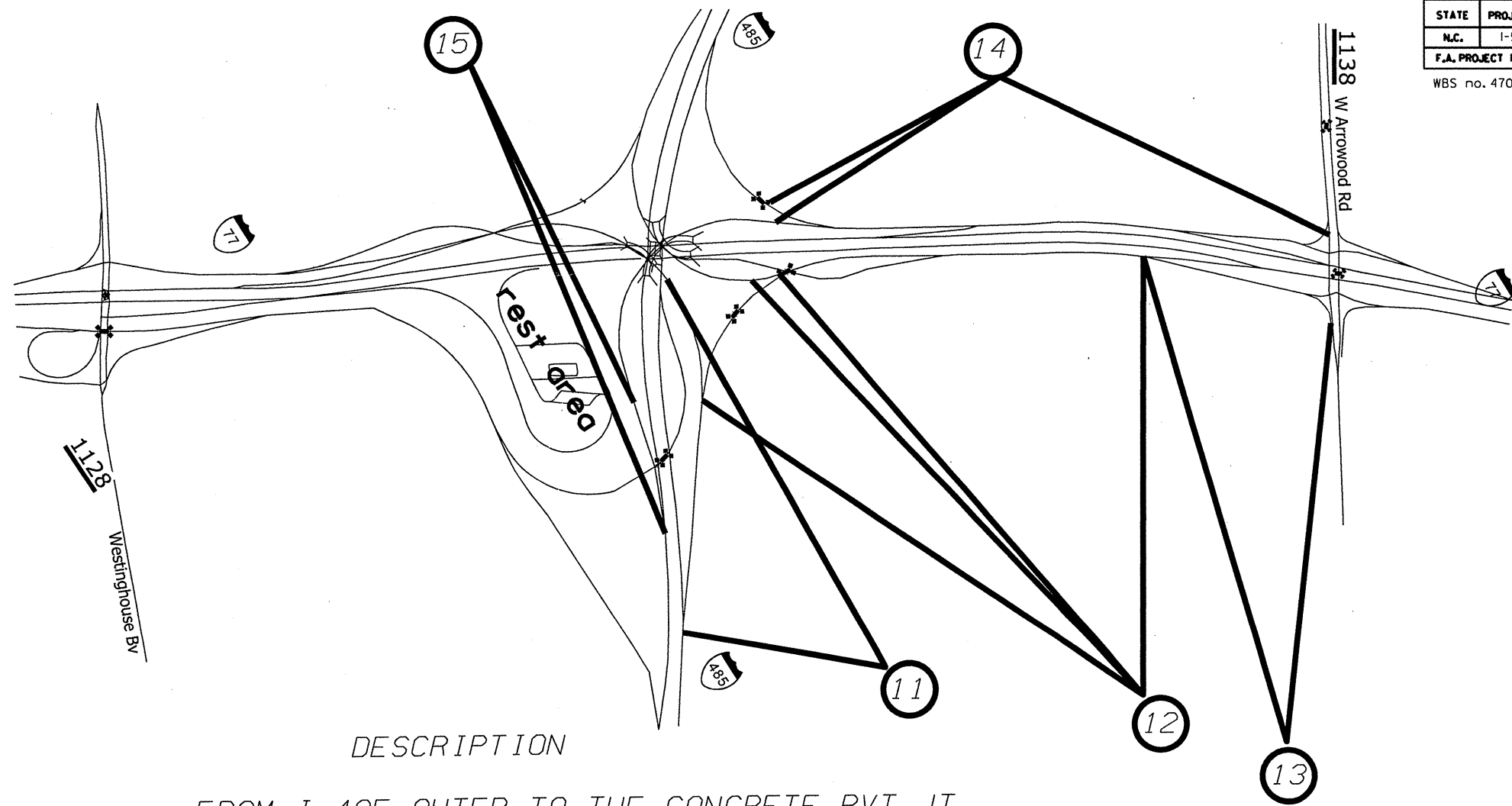
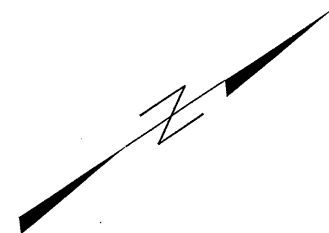
DESCRIPTION

- | | | |
|----|-------------------------------|---|
| 7 | I-77S OFFRAMP | FROM PVT JT AT I-77S TO THE I-485 OFFRAMP/I-77S ONRAMP TO WESTINGHOUSE BLVD (SR 1128) |
| 8 | I-485 INNER AND OUTER OFFRAMP | FROM CONCRETE PVT JTS ON I-485 INNER AND OUTER TO PVT JT AT THE I-77S ONRAMP |
| 9 | I-485 OUTER OFFRAMP | FROM I-485 INNER AND OUTER OFFRAMP TO WESTINGHOUSE BLVD (SR 1128) |
| 10 | I-77S ONRAMP | FROM WESTINGHOUSE BLVD (SR 1128) TO PVT JT AT I-77 S |

2012 MECKLENBURG COUNTY		
SCALE	-NA-	
DATE	07/12	
DWG. BY	JSL	
DESIGN BY	JSL	
APPROVED		
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5210C	3	
F.A. PROJECT NO. IMPP-077-1(2)114			

WBS no. 47056.3.4



MAP

DESCRIPTION

- 11 I-485 OUTER OFFRAMP
FROM I-485 OUTER TO THE CONCRETE PVT JT AT THE I-485 OUTER OFFRAMP/I-77S ONRAMP
- 12 I-485 OUTER OFFRAMP
FROM I-485 OFFRAMP/I-77N ONRAMP TO THE PVT JT AT I-77N ONRAMP/RAMP TO ARROWOOD RD (SR 1138)
- 13 ARROWOOD RD (SR 1138) ONRAMP
FROM I-485 OUTER OFFRAMP TO PVT JT AT ARROWOOD RD (SR 1138)
- 14 I-77S ONRAMP
FROM ARROWOOD RD (SR 1138) TO CONCRETE PVT JTS FOR I-485 INNER AND OUTER RAMPS
- 15 I-485 OUTER ONRAMP
FROM THE CONCRETE PVT JT AT THE FLY OVER TO THE I-485 OUTER LOOP

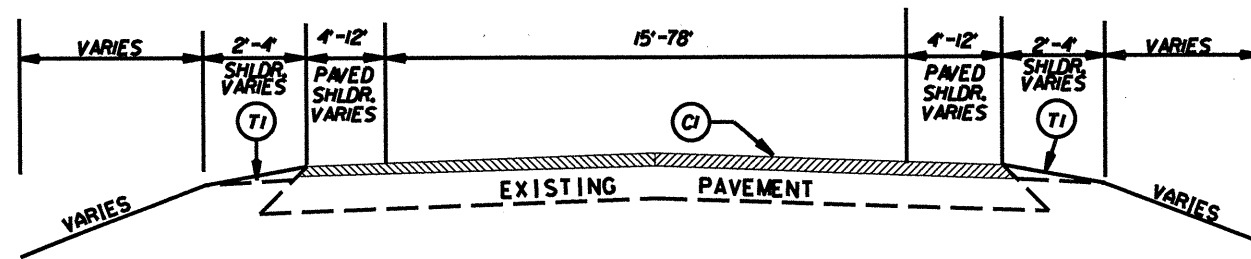
2012 MECKLENBURG COUNTY

SCALE	-NA-
DATE	07/12
DWG. BY	JSL
DESIGN BY	JSL
APPROVED	

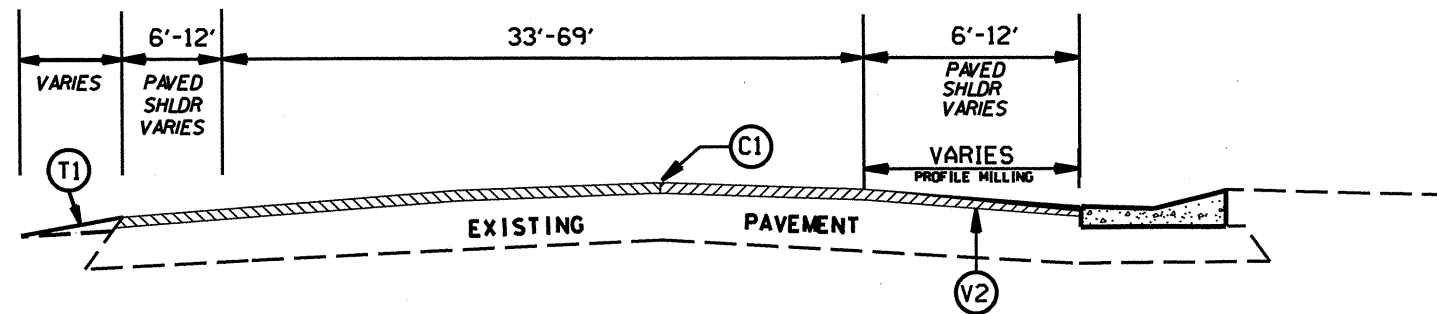


REVISIONS	

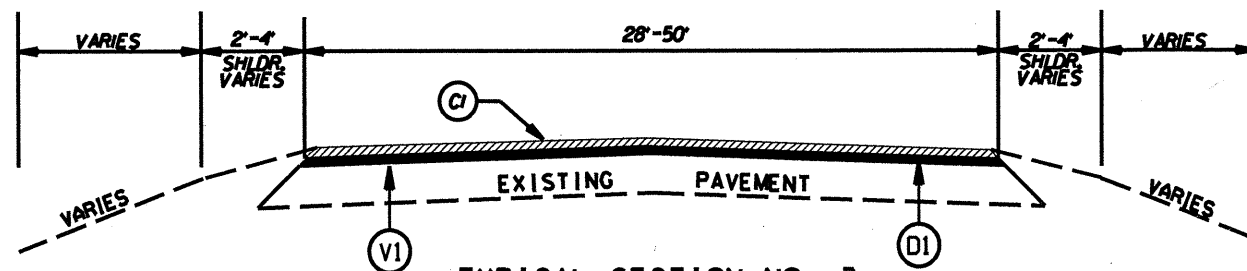
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5210C	4	
F.A. PROJECT NO. IMPP-077-1(2)114			



TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2



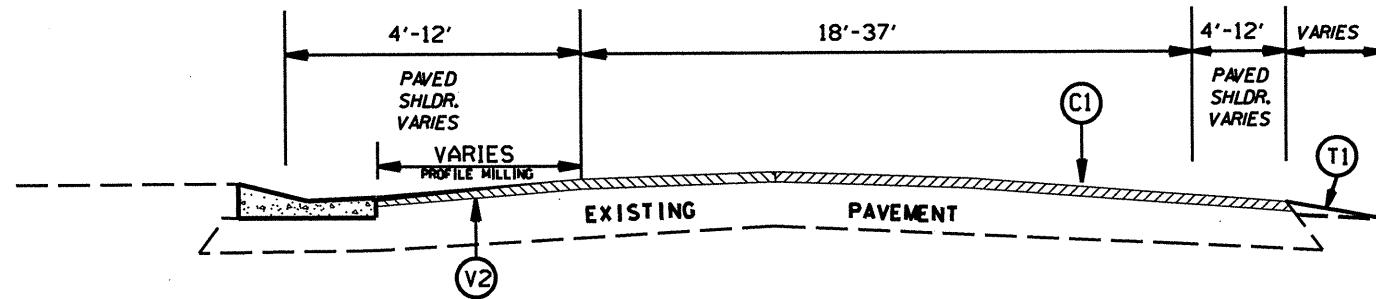
TYPICAL SECTION NO. 3

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0D, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 5.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"

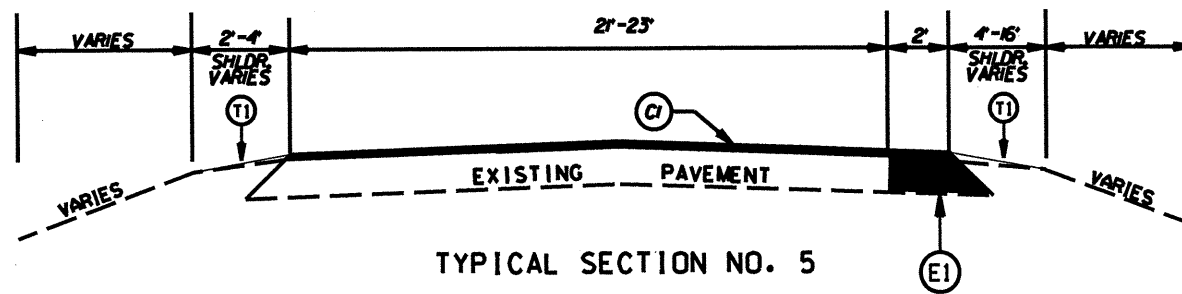
2012 MECKLENBURG COUNTY

SCALE	-NA-		REVISIONS
DATE	07/12		
DWG. BY	JSL		
DESIGN BY	JSL		
APPROVED	LM		

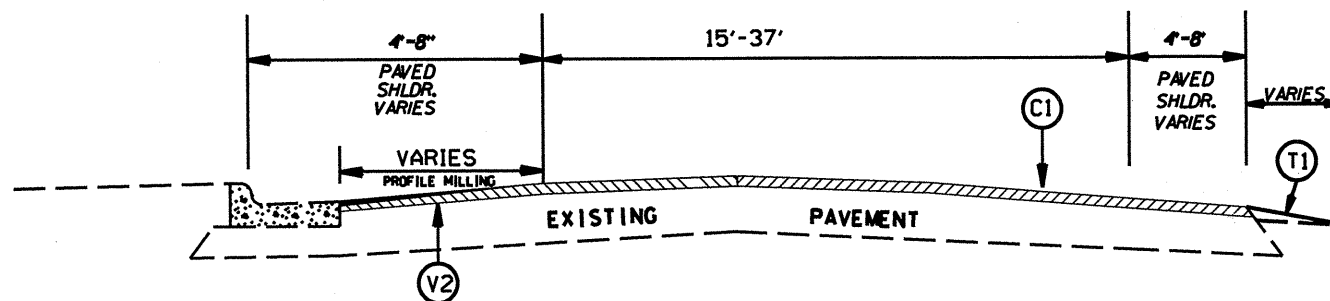
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5210C	5	
F.A. PROJECT NO. IMPP-077-112114			



TYPICAL SECTION NO. 4



TYPICAL SECTION NO. 5



TYPICAL SECTION NO. 6

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0D, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 5.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"

2012 MECKLENBURG COUNTY

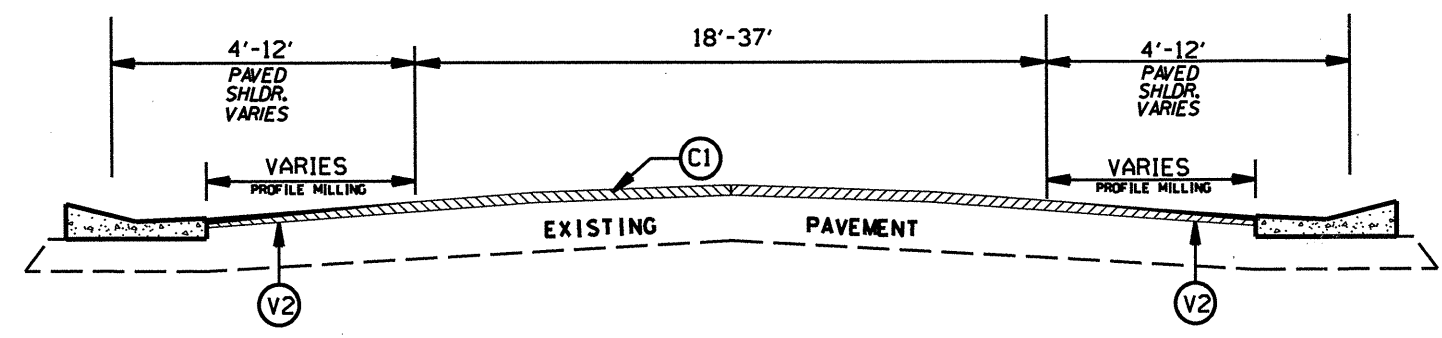
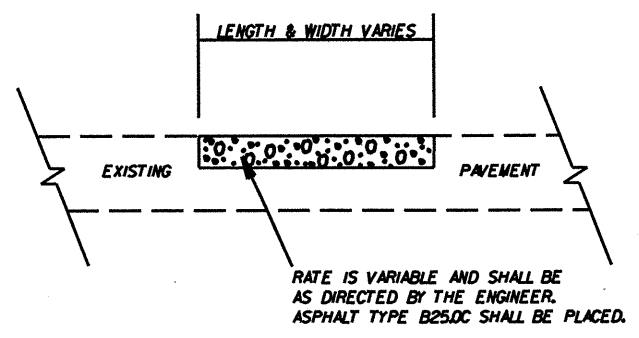
SCALE	-NA-		REVISIONS
DATE	07/12		
DWG. BY	JSL		
DESIGN BY	JSL		
APPROVED	LW		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5210C	6	
F.A. PROJECT NO.			IMPP-077-(K211)14

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0D, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 5.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"

PATCHING DETAIL



TYPICAL SECTION NO. 7

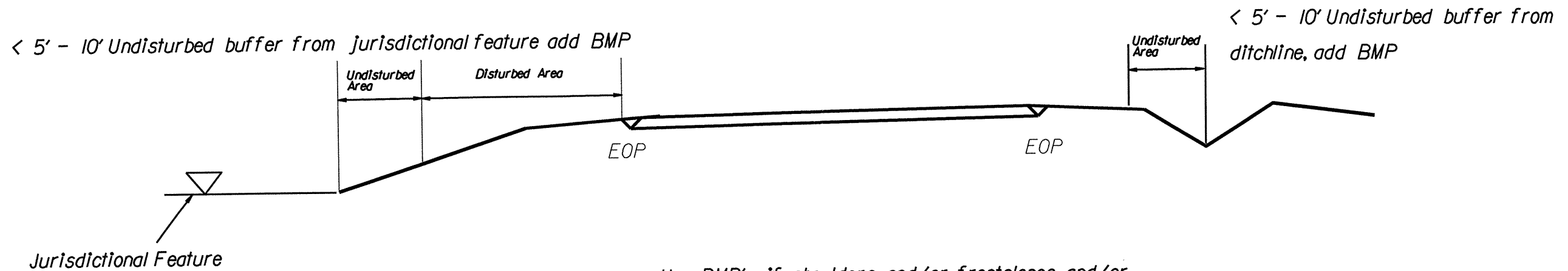
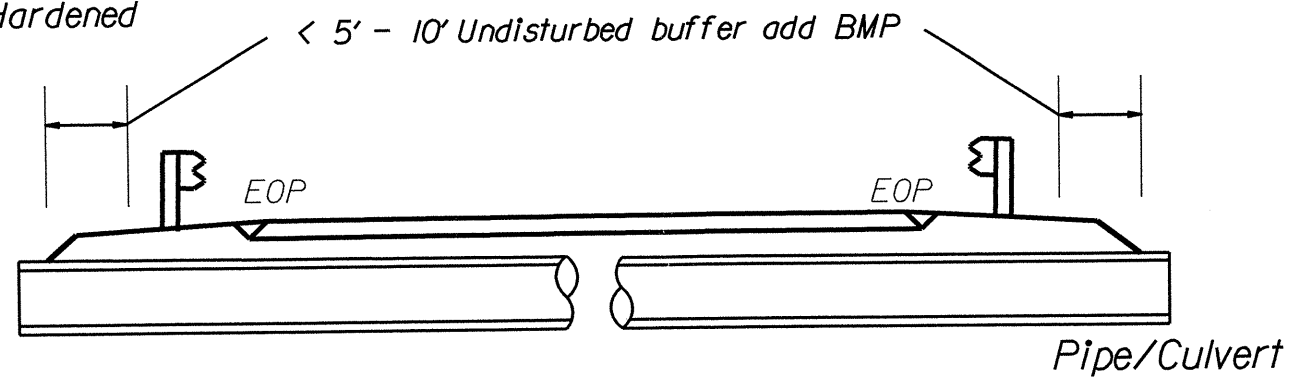
2012 MECKLENBURG COUNTY

SCALE	-NA-		REVISIONS
DATE	07/12		
ENG. BY	JSL		
DESIGN BY	JSL		
APPROVED	LM		

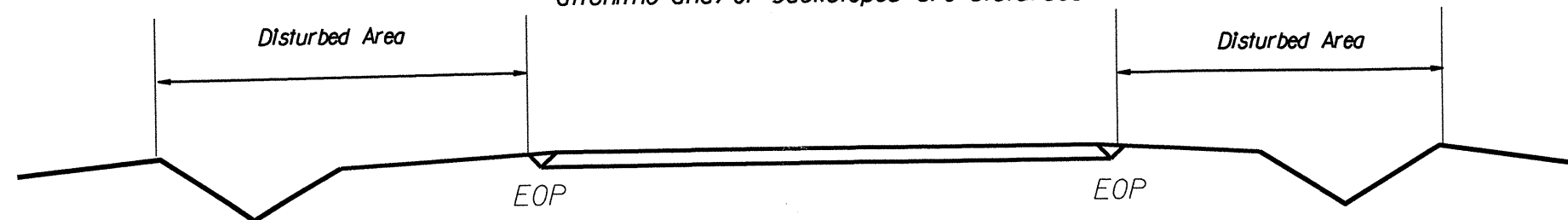
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

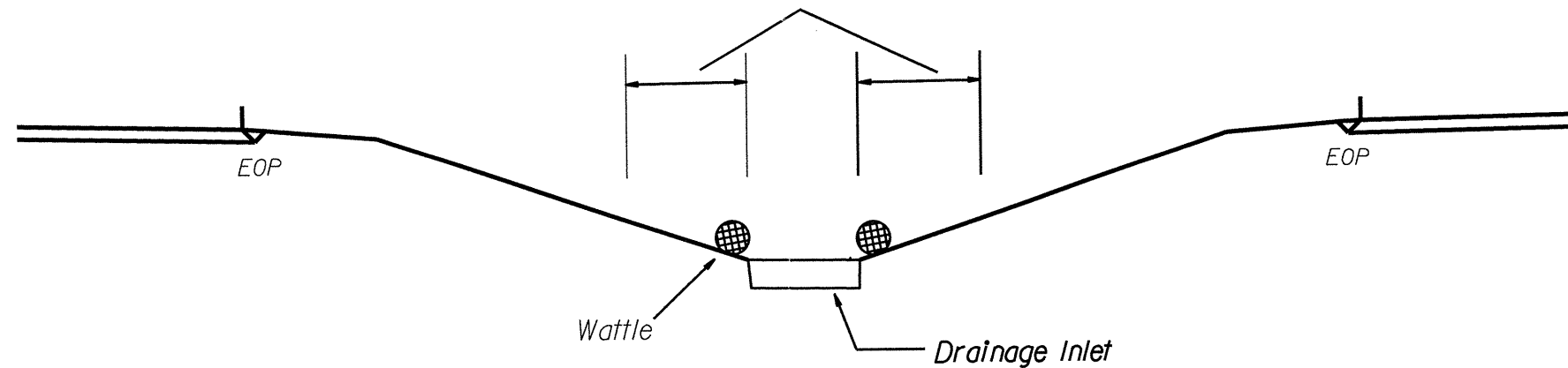
EROSION CONTROL DETAIL



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

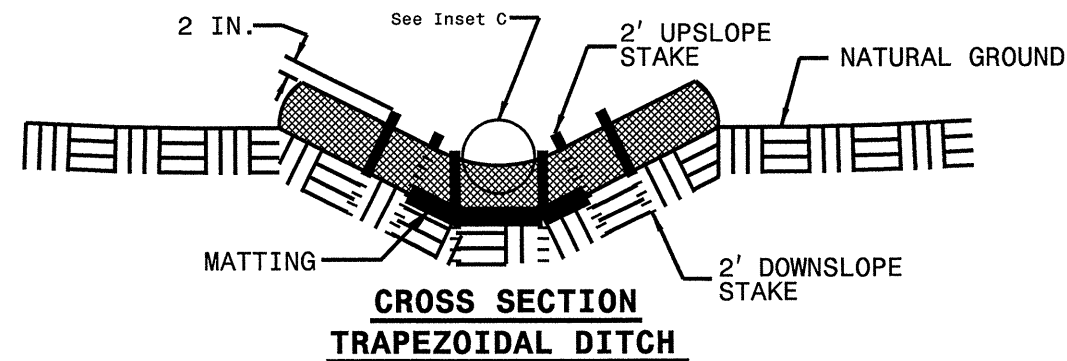
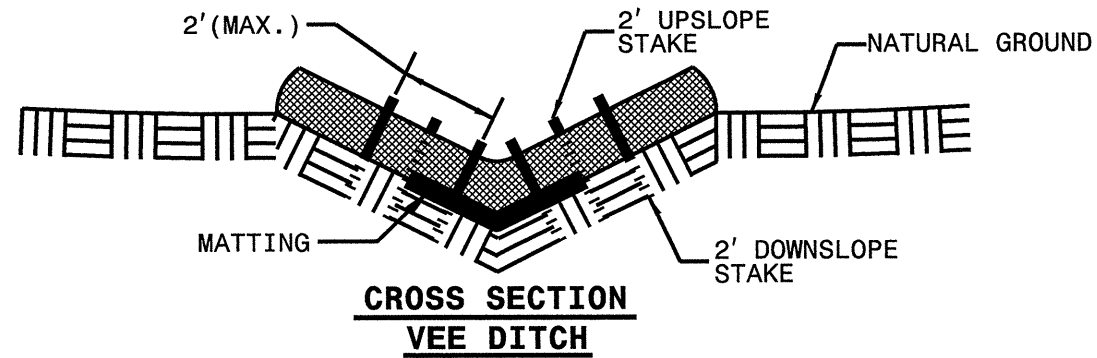
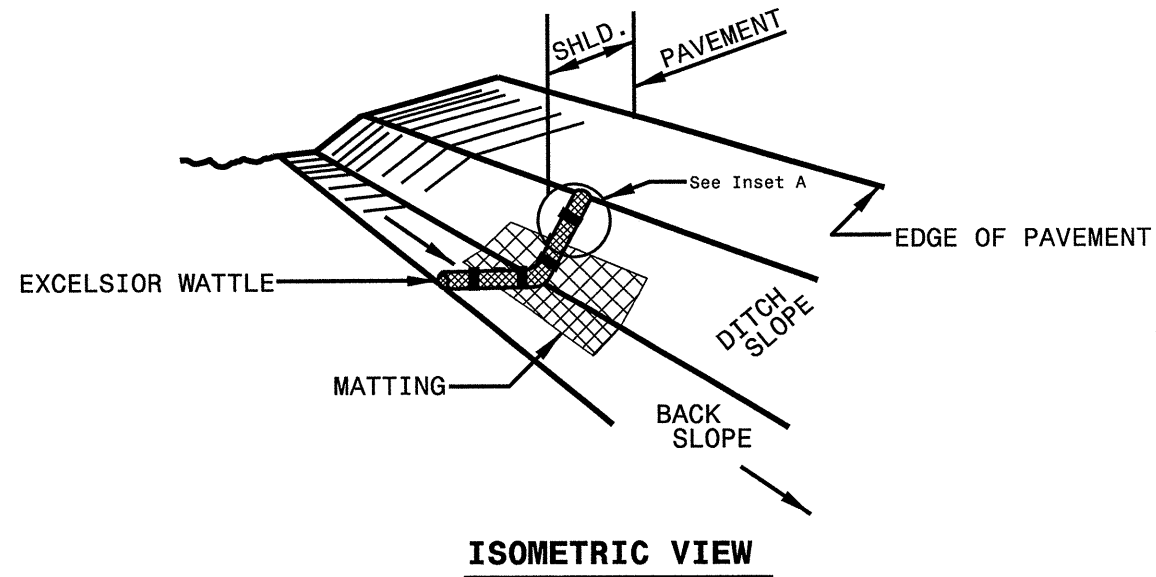


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

WATTLE WITH POLYACRYLAMIDE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

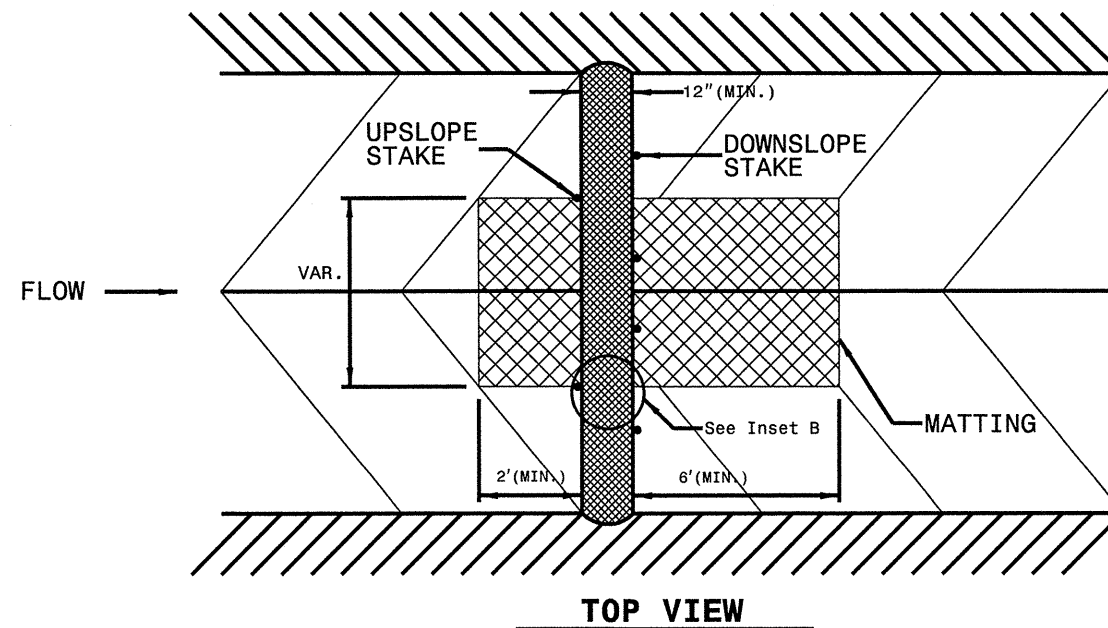
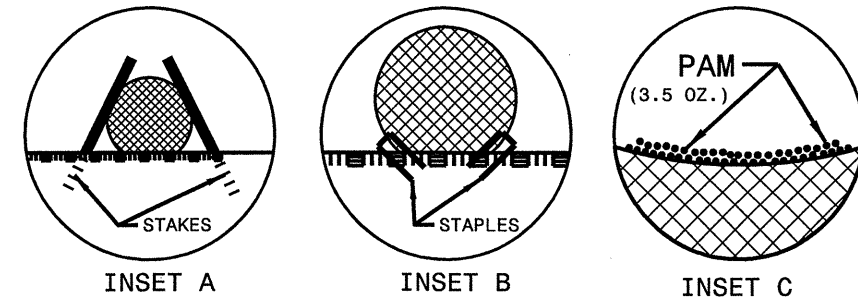
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT NO.	SHEET NO.	TOTAL NO.
I-5210C	10	

SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP NO.	FINAL SURFACE TESTING REQUIRED	LENGTH MI.	WIDTH FT.	BORROW CY.	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI.	5.5" MILLING SY.	0" TO 1.5" MILLING SY.	INCIDENTAL MILLING SY.	BASE COURSE, B25.0C TONS	INTERMEDIATE COURSE, I19.0D TONS	SURFACE COURSE, S9.5D TONS	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	PORTABLE LIGHTING LS.	TEMPORARY SILT FENCE LF.	STONE FOR EROSION CONTROL, CLASS B TN.	SEDIMENT CONTROL STONE TN.	WATTLE LF.	POLYACRYLAMIDE (PAM) LB.		
I-5210C	Mecklenburg	1	I-77 OFFRAMP	FROM PVT JT AT I-77N TO PVT JT AT I-485 OUTER LOOP	1,2	NO	1.65	39.5	100		3.20		410	960			3,383		193	800	1	165	41	41	30	1.00		
		2	I-77N OFFRAMP/WESTINGHOUSE BLVD ONRAMP	FROM I-77N OFFRAMP TO WESTINGHOUSE BLVD (SR 1128)	1,3	NO	0.3	31	20		0.50	790				200	483	9	28		*	30	7	7	10	0.25		
		3	WESTINGHOUSE BLVD OFFRAMP	FROM NORTHBOUND WESTINGHOUSE BLVD (SR 1128) TO I-485 ONRAMP	1	NO	0.19	27	100	100		0.38			365		267		15	145		*	30	7	7	10		
		4	I-485 INNER ONRAMP	FROM MAP 1 TO I-485 INNER LOOP	1,4	NO	0.4	32	50	50		0.48		290	535			665		38	1		*	30	7	7	10	0.25
		5	I-77N ONRAMP/WESTINGHOUSE BLVD OFFRAMP	FROM WESTINGHOUSE BLVD (SR 1128) TO I-77N	5	NO	0.24	25	25	100		0.48			670	116		312	5	18	100		*	30	7	7	10	0.25
		6	WESTINGHOUSE BLVD ONRAMP	FROM SOUTHBOUND WESTINGHOUSE BLVD (SR 1128) I-485 ONRAMP	6	NO	0.25	21	20			0.25		800	155			273		16	125		*	30	7	7	10	0.25
		7	I-77S OFFRAMP	FROM PVT JT AT I-77S TO THE I-485 OFFRAMP TO WESTINGHOUSE BLVD (SR 1128)	1	NO	0.42	23	50	100		0.84			140			503		29	210		*	50	10	10	20	0.50
		8	I-485 INNER AND OUTER OFFRAMP	FROM CONCRETE PVT JTS ON I-485 INNER AND OUTER LOOP TO PVT JT AT THE I-77S ONRAMP	1,2	NO	0.3	51.5	50			0.48		500	1,750			801		46	150		*	30	7	7	10	0.25
		9	I-485 OUTER OFFRAMP	FROM I-485 INNER AND OUTER OFFRAMP/I-77N ONRAMP TO WESTINGHOUSE BLVD (SR 1128)	1,3	NO	0.49	35	50	50		0.90	900				341	891	15	51	100		*	30	10	10	20	0.50
		10	I-77S ONRAMP	FROM WESTINGHOUSE BLVD (SR 1128) TO I-77S	1	NO	0.16	36	20	20		0.32			655			299		17	100		*	20	5	5	10	0.25
		11	I-485 OUTER OFFRAMP	FROM I-485 OUTER TO THE I-485 OUTER OFFRAMP/I-77S ONRAMP	1,2,4	NO	0.42	54	50			0.65		780	790			1,176		67	210		*	60	7	7	10	0.25
		12	I-485 OUTER OFFRAMP	FROM I-485 OFFRAMP/I-77 ONRAMP TO PVT JT AT I-77N AND RAMP TO ARROWOOD RD (SR 1138)	1,2	NO	0.66	62	75			0.98		1,575	710			2,122		121	300		*	50	10	10	30	0.50
		13	ARROWOOD RD (SR 1138) ONRAMP	FROM I-485 OUTER OFFRAMP/I-77N ONRAMP TO ARROWOOD RD (SR 1138)	1,2	NO	0.3	45	20			0.40		925	620			700		40	150		*	30	5	5	20	0.25
		14	I-77S ONRAMP	FROM ARROWOOD RD (SR 1138) TO CONCRETE PVT JT FOR I-485 INNER AND OUTER RAMPS	1,2,5,7	NO	0.86	54.5	100			1.20		2,490	760			2,431		139	430		*	50	10	10	30	0.50
		15	I-485 OUTER ONRAMP	FROM CONCRETE PVT JT AT FLY OVER TO I-485 OUTER LOOP	1,6	NO	0.18	37.5	10			0.32		190	435			350		20	90		*	20	5	5	10	0.25
GRAND TOTAL							6.82		740	420	11.38	1690	7960	8545	116	541	14656	29	838	2911	1	655	145	145	240	5.25		

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5210C	11	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4399000000-N	4705000000-E	4710000000-E	4721000000-E		4725000000-E			4815000000-E	4830000000-E	4835000000-E	4840000000-N	4845000000-N			4847100000-E		4847120000-E	4905000000-N		
							TEMP. TRAFFIC CONTROL	16" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO RXR 120 M	THERMO MSG ONLY 120 M	MERGE ARROW	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	6" WHITE PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG RXR	PAINT LT ARROW	PAINT RT ARROW	6" WHITE POLYUREA PVMT MARKING LINES LF	6" YELLOW POLYUREA PVMT MARKING LINES LF	12" WHITE POLYUREA PVMT MARKING LINES LF	SNOW PLOWABLE MARKERS			
I-5210C	Mecklenburg	1	I-77 OFFRAMP	FROM PVT JT AT I-77N TO PVT JT AT I-485 OUTER LOOP	1.65	39.5	1																				
		2	I-77N OFFRAMP/WESTINGHOUSE BLVD ONRAMP	FROM I-77N OFFRAMP TO WESTINGHOUSE BLVD (SR 1128)	0.3	31	*	50	80	2				6	3	1,000	50	80	2	6	3	2,300	1,850				18
		3	WESTINGHOUSE BLVD OFFRAMP	FROM NORTHBOUND WESTINGHOUSE BLVD (SR 1128) TO I-485 ONRAMP	0.19	27	*															2,640	2,640	730			35
		4	I-485 INNER ONRAMP	FROM MAP 1 TO I-485 IN NER LOOP	0.4	32	*															2,550	2,550	180			
		5	I-77N ONRAMP/WESTINGHOUSE BLVD OFFRAMP	FROM WESTINGHOUSE BLVD (SR 1128) TO I-77N	0.24	25	*															1,265	1,265				
		6	WESTINGHOUSE BLVD ONRAMP	FROM SOUTHBOUND WESTINGHOUSE BLVD (SR 1128) I-485 ONRAMP	0.25	21	*																	1,320	170		
		7	I-77S OFFRAMP	FROM PVT JT AT I-77S TO THE I-485 OFFRAMP TO WESTINGHOUSE BLVD (SR 1128)	0.42	23	*															2,220	2,220	440			22
		8	I-485 INNER AND OUTER OFFRAMP	FROM CONCRETE PVT JTS ON I-485 INNER AND OUTER LOOP TO PVT JT AT THE I-77S ON RAMP	0.3	51.5	*															1,840	1,840	1,440			90
		9	I-485 OUTER OFFRAMP	FROM I-485 INNER AND OUTER OFFRAMP/I-77N ONRAMP TO WESTINGHOUSE BLVD (SR 1128)	0.49	35	*		55					3	6	1,000				3	6	2,460	1,800	440			63
		10	I-77S ONRAMP	FROM WESTINGHOUSE BLVD (SR 1128) TO I-77S	0.16	36	*															915	930	145			8
		11	I-485 OUTER OFFRAMP	FROM I-485 OUTER TO THE I-485 OUTER OFFRAMP/I-77S ON RAMP	0.42	54	*															5,000	3,605	530			82
		12	I-485 OUTER OFFRAMP	FROM I-485 OFFRAMP/I-77 ONRAMP TO PVT JT AT I-77N AND RAMP TO ARROWOOD RD (SR 1138)	0.66	62	*															5,015	2,770	800			82
		13	ARROWOOD RD (SR 1138) ONRAMP	FROM I-485 OUTER OFFRAMP/I-77N ONRAMP TO ARROWOOD RD (SR 1138)	0.3	45	*		35					6								1,950	1,060	875			60
		14	I-77S ONRAMP	FROM ARROWOOD RD (SR 1138) TO CONCRETE PVT JT FOR I-485 INNER AND OUTER RAMPS	0.86	54.5	*				12											9,500	5,640	1,740			175
		15	I-485 OUTER ON RAMP	FROM CONCRETE PVT JT AT FLY OVER TO I-485 OUTER LOOP	0.18	37.5	*															1,070	850				12
GRAND TOTAL					6.82		1	50	170	2	12	13	15	12	2000	50	135	2	9	9	47235	38440	9725			867	
										14			40							18		85,675					