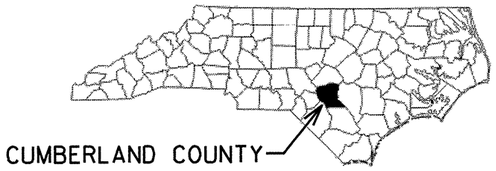
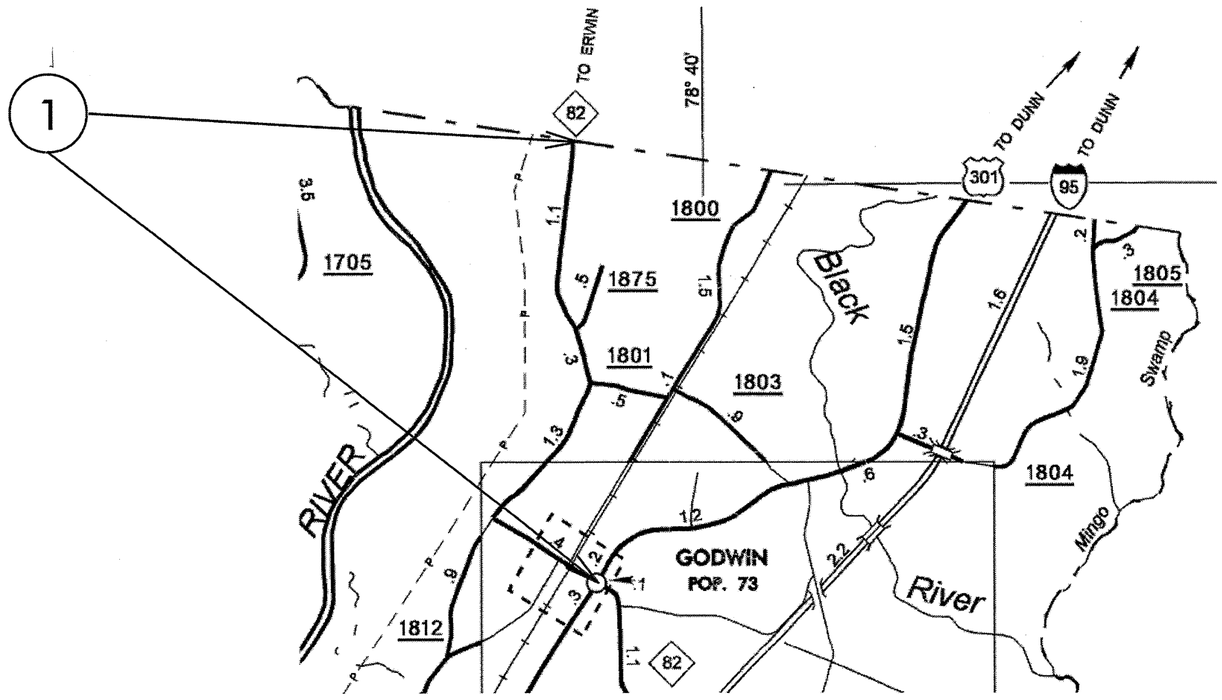
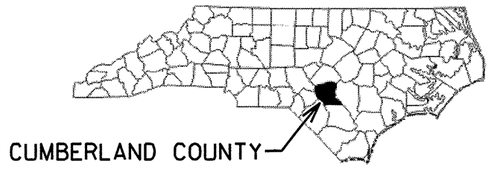
6CR.10261.73

RESURFACING MAPS - CUMBERLAND COUNTY

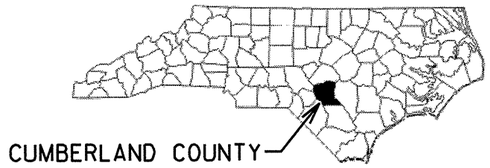




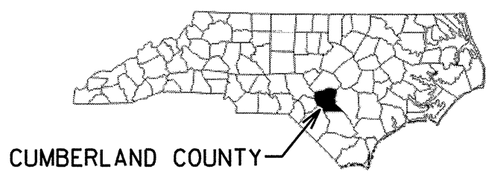
RESURFACING MAPS - CUMBERLAND COUNTY



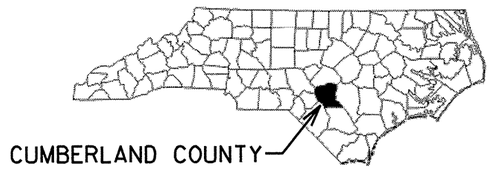
RESURFACING MAPS - CUMBERLAND COUNTY



RESURFACING MAPS - CUMBERLAND COUNTY

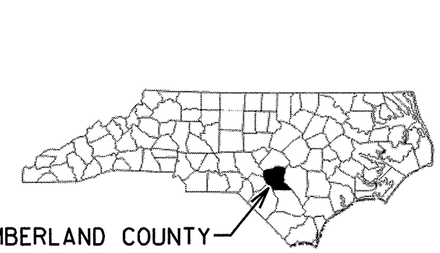


RESURFACING MAPS - CUMBERLAND COUNTY

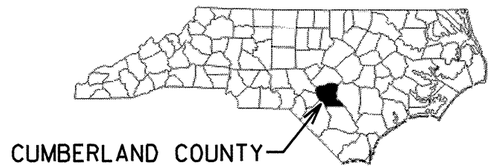


PROJECT REFERENCE NO.	SHEET NO.
6CR.20261.73	6

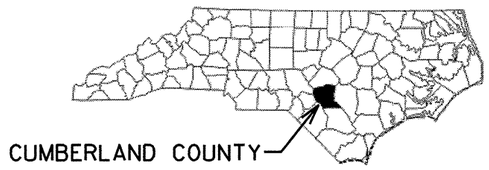
RESURFACING MAPS - CUMBERLAND COUNTY

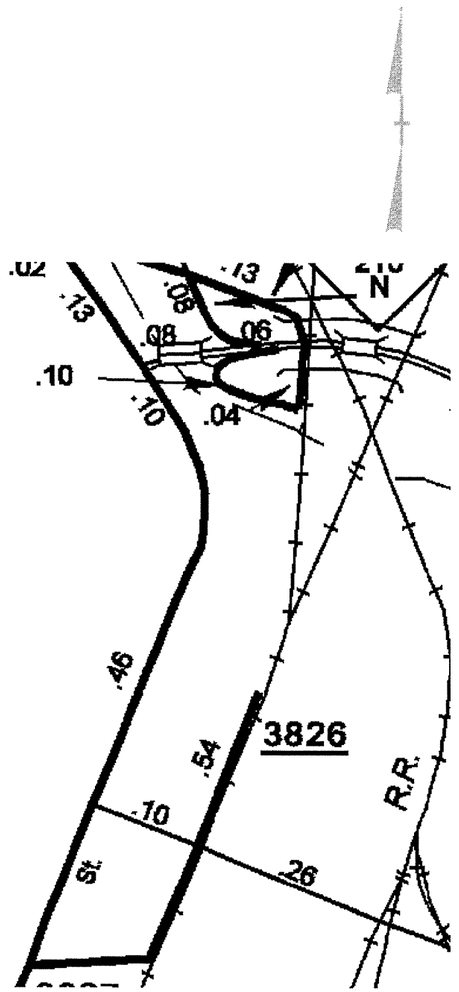


RESURFACING MAPS - CUMBERLAND COUNTY



RESURFACING MAPS - CUMBERLAND COUNTY





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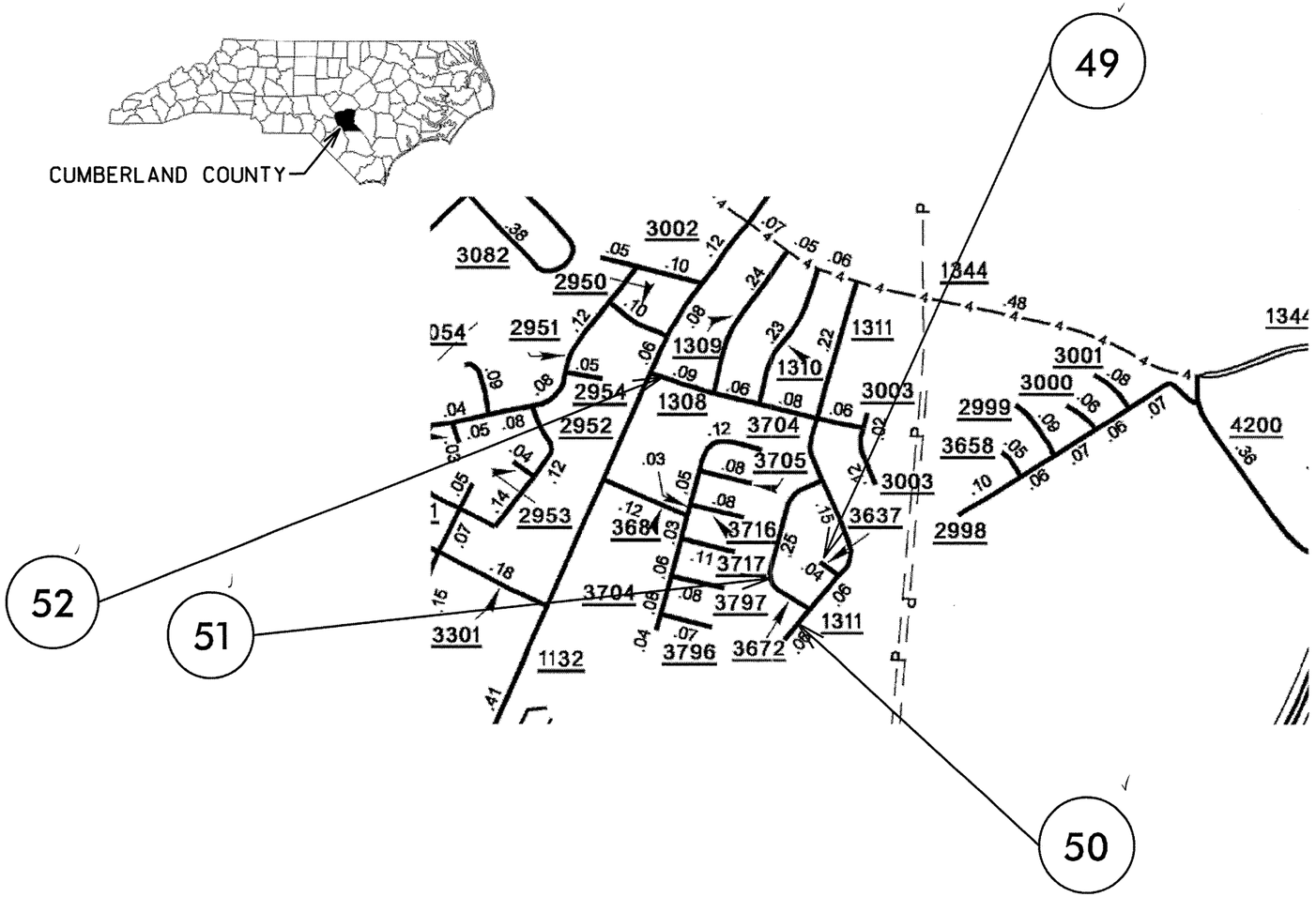

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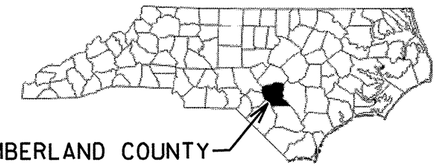
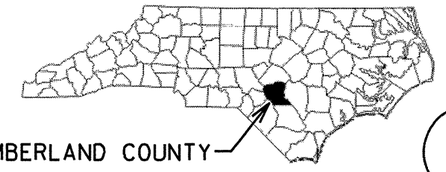
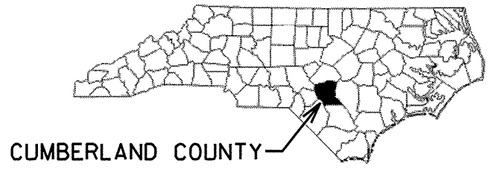


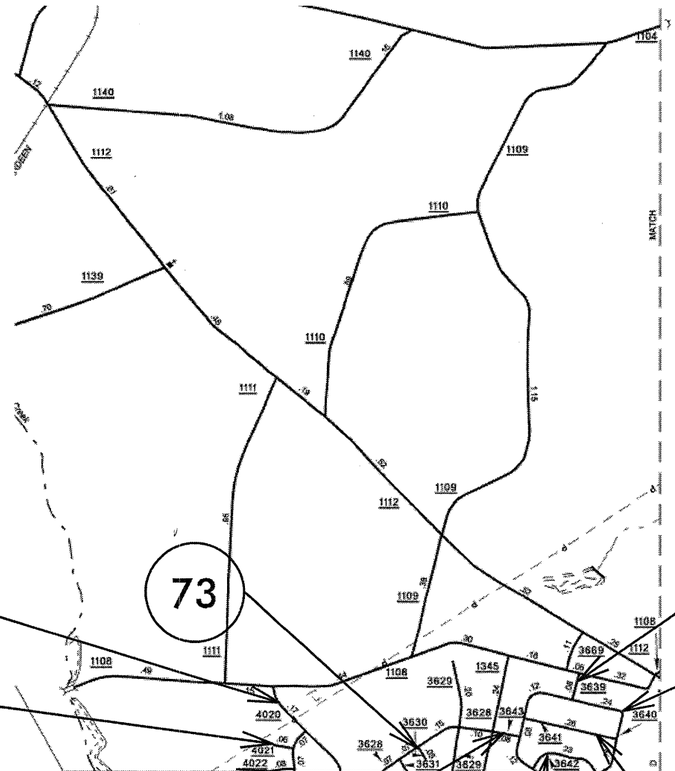
RESURFACING MAPS - CUMBERLAND COUNTY



SHEET NUMBER	NO. SHEETS
6CR.20261.73	12

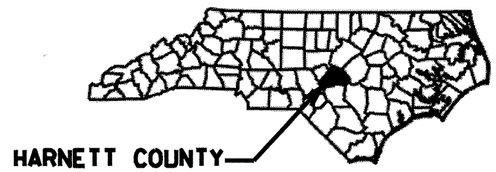
RESURFACING MAPS - CUMBERLAND COUNTY

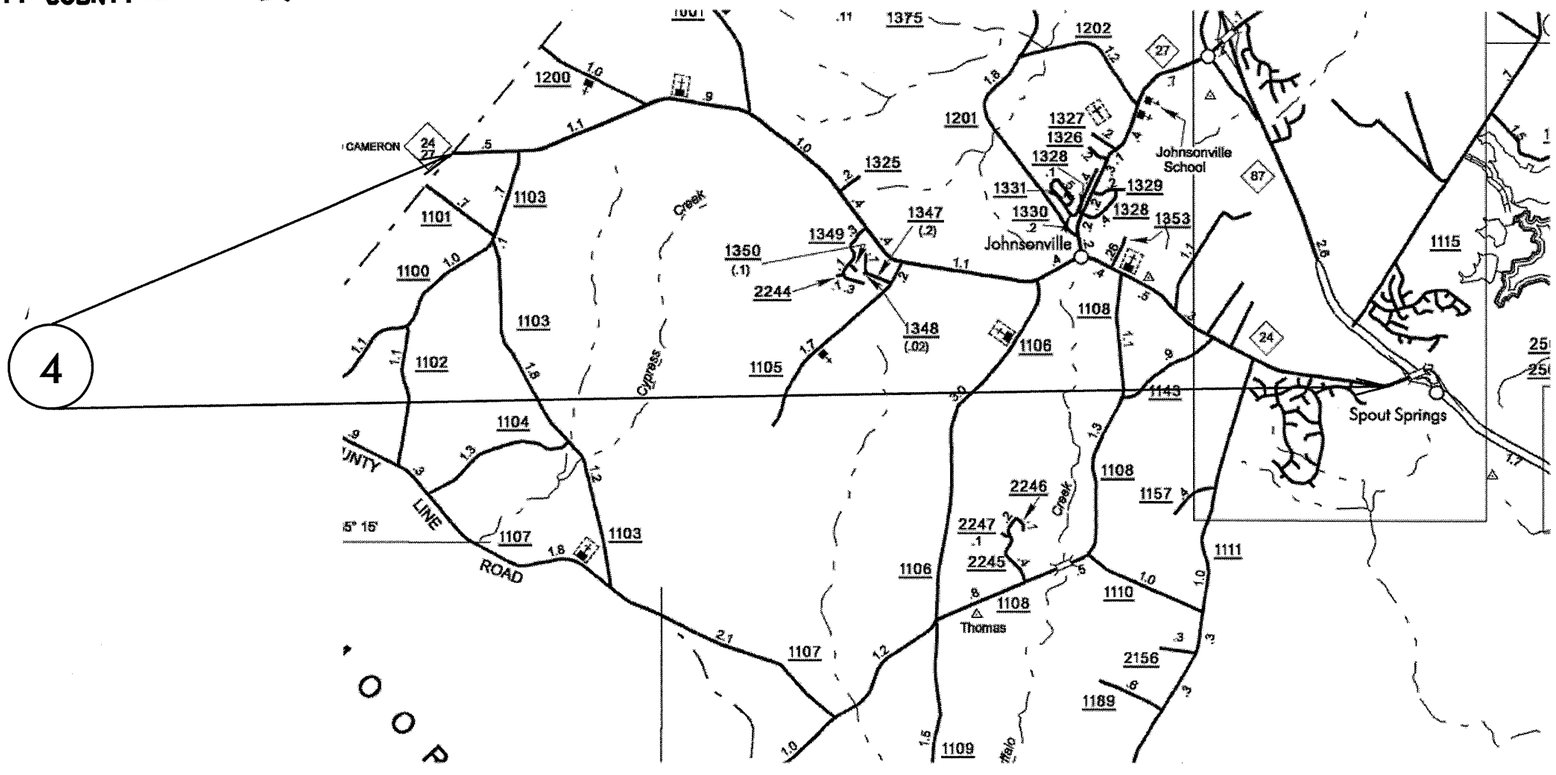




PROJECT REFERENCE NO.	SHEET NO.
6CR.10431.73	13

RESURFACING MAPS - HARNETT COUNTY





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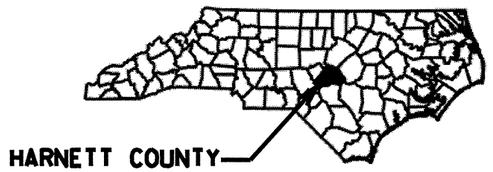
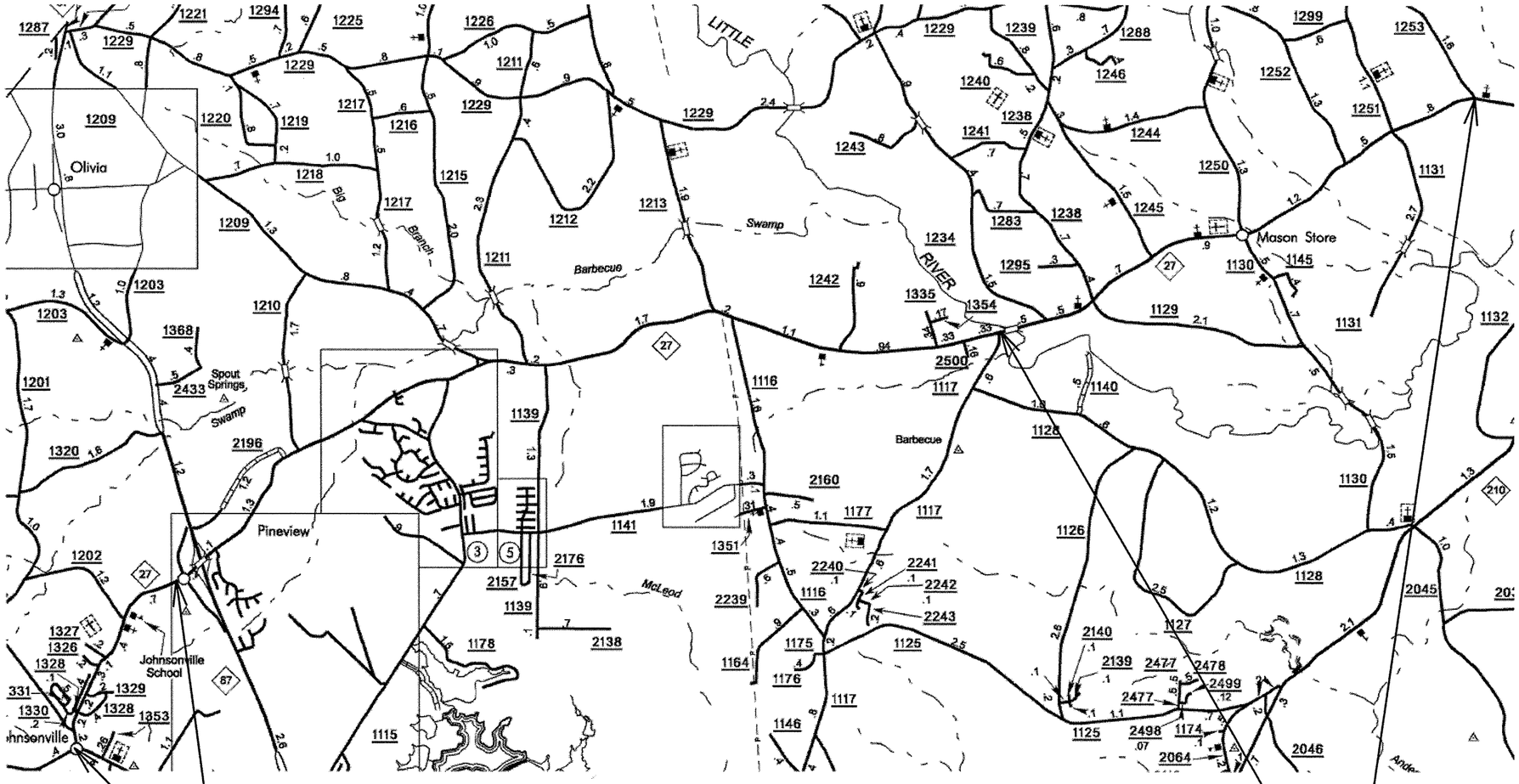


RESURFACING MAPS - HARNETT COUNTY



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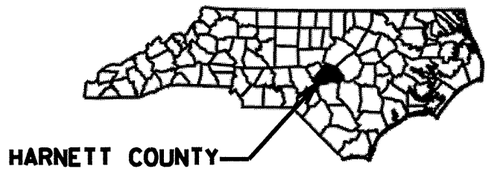
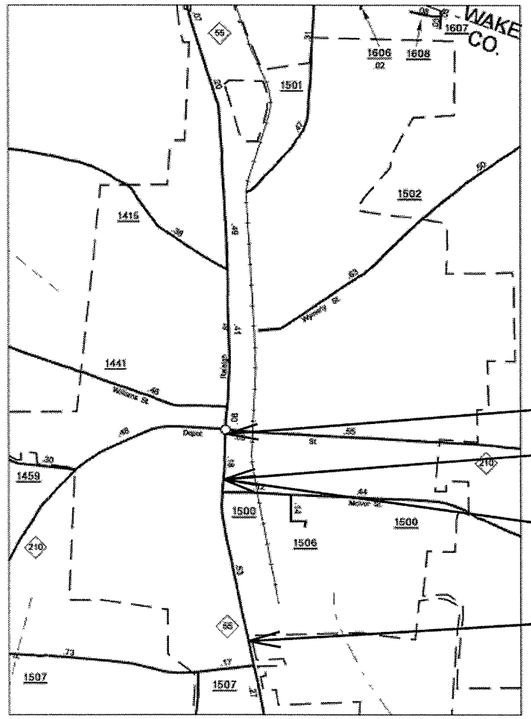
6CR.10431.73	15

RESURFACING MAPS - HARNETT COUNTY





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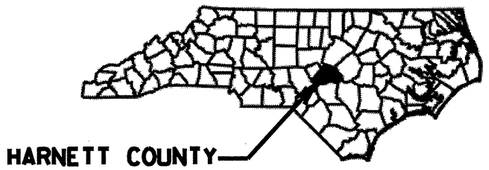
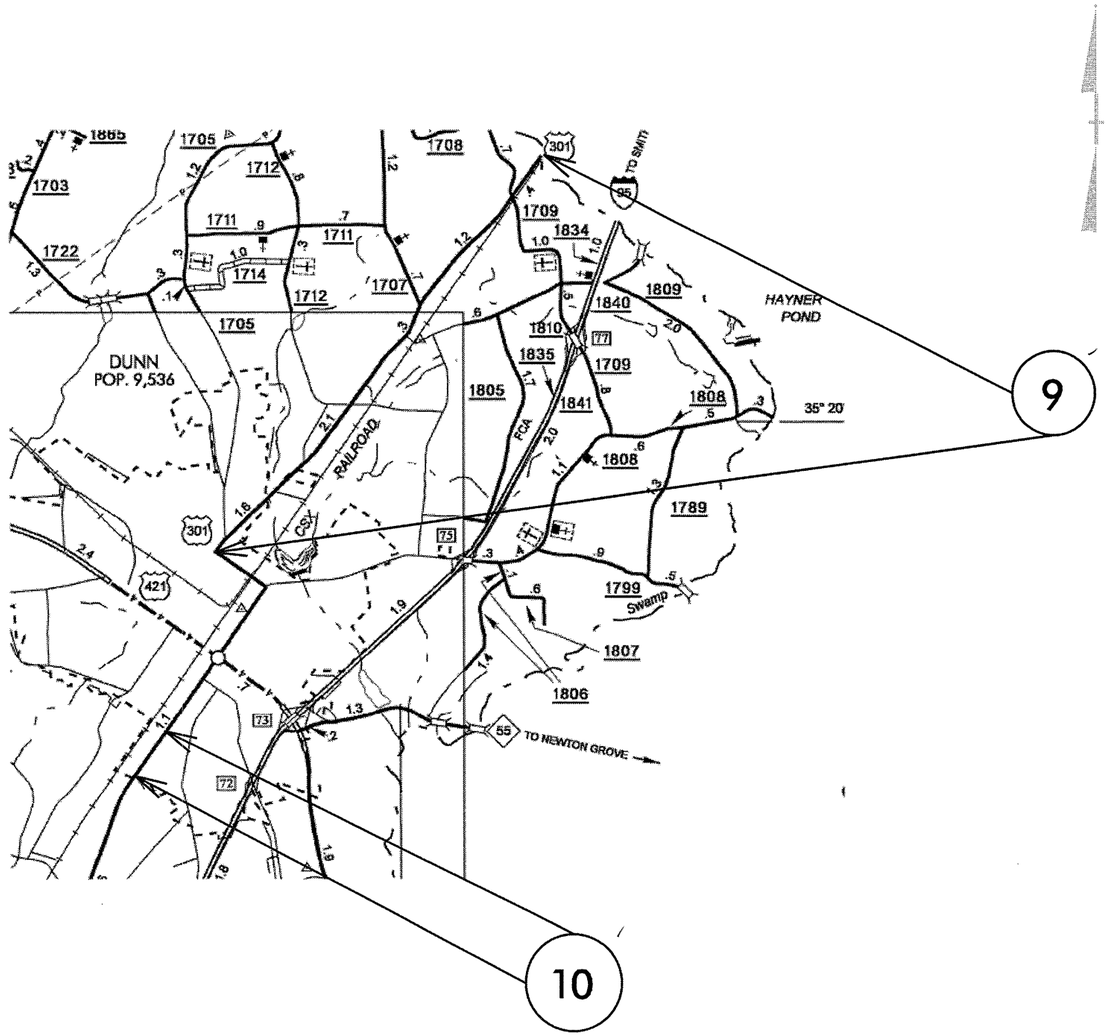
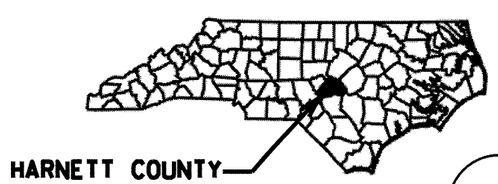
Pop. 3,652

RESURFACING MAPS - HARNETT COUNTY



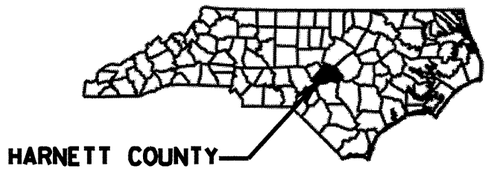


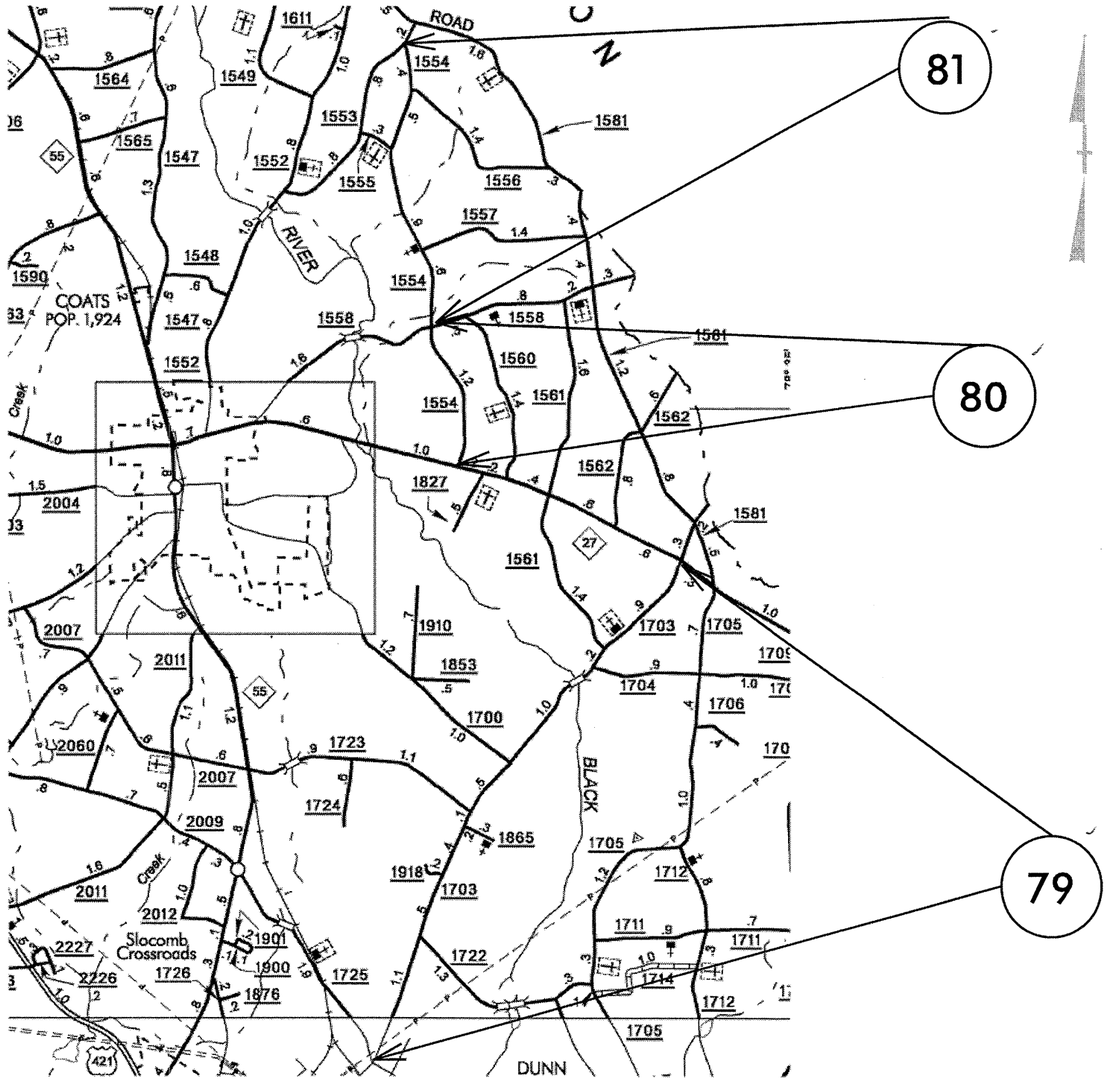
RESURFACING MAPS - HARNETT COUNTY



PROJECT REFERENCE NO.	SHEET NO.
6CR.20431.73	18

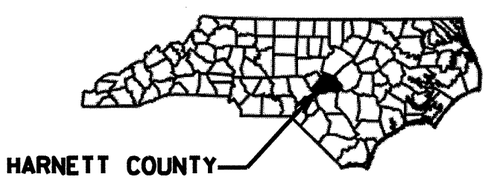
RESURFACING MAPS - HARNETT COUNTY





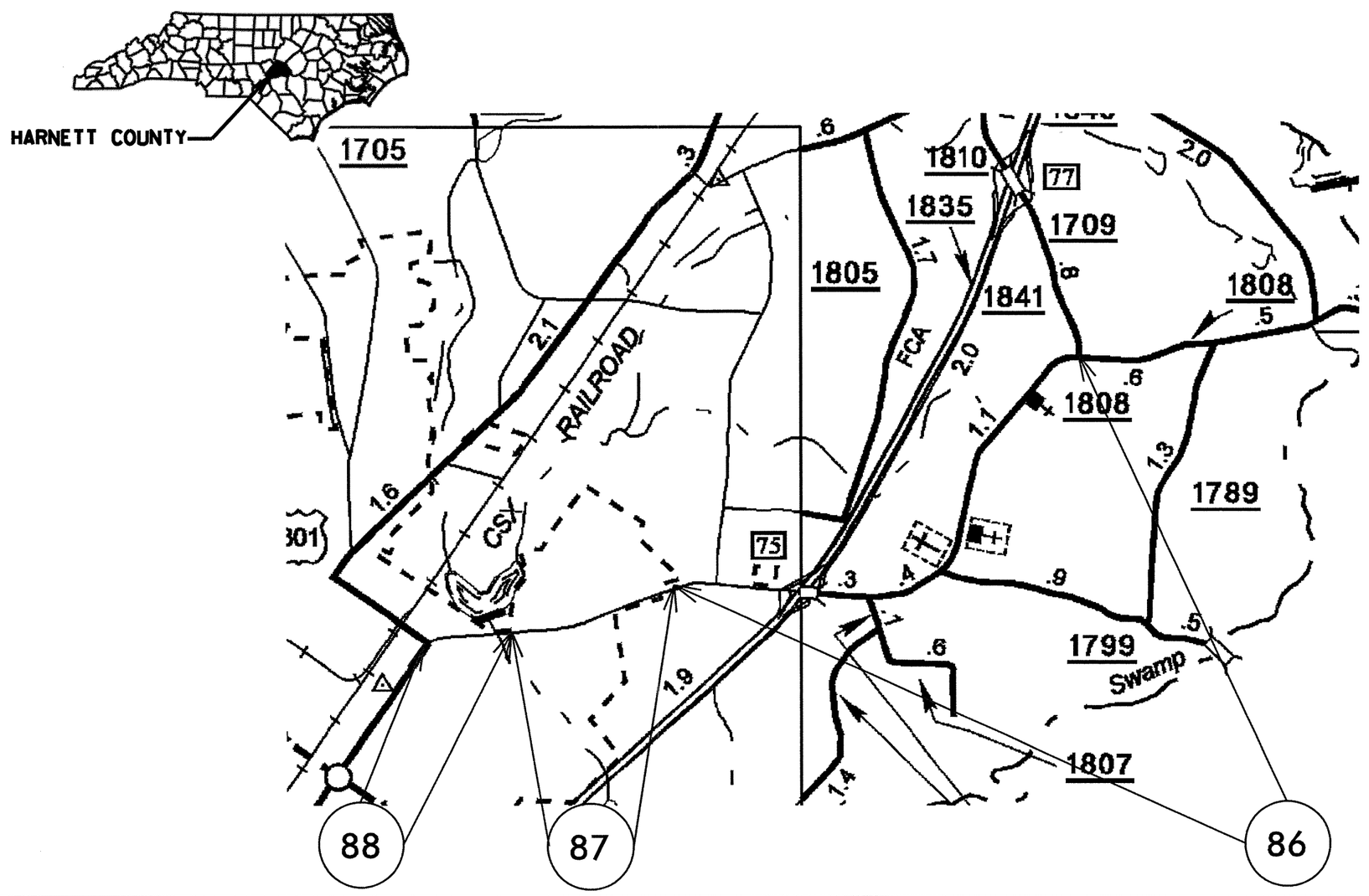
PROJECT REFERENCE NO.	SHEET NO.
6CR.20431.73	19

RESURFACING MAPS - HARNETT COUNTY

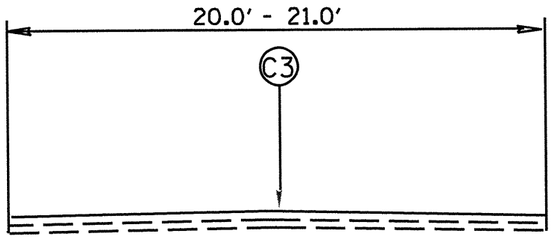


PROJECT REFERENCE NO.	SHEET NO.
6CR.20431.73	20

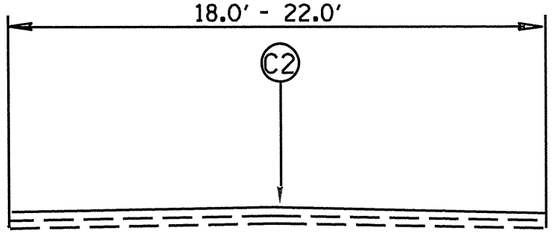
RESURFACING MAPS - HARNETT COUNTY



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 0.75" ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 75 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.00" ASPHALT CONCRETE BASE COURSE, TYPE B25.0.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
F1	MATCOAT, #6 STONE
F2	MATCOAT, #78M STONE
V1	MILLING AT A DEPTH OF 0" TO 1.50" TO BE MILLED TO A DEPTH OF 1.50" BELOW THE GUTTER AT EP AS DIRECTED BY THE ENGINEER.
V2	MILLING AT A DEPTH OF 1.50" AS DIRECTED BY THE ENGINEER.
T	SHOULDER RECONSTRUCTION.



TYPICAL SECTION NO. 1



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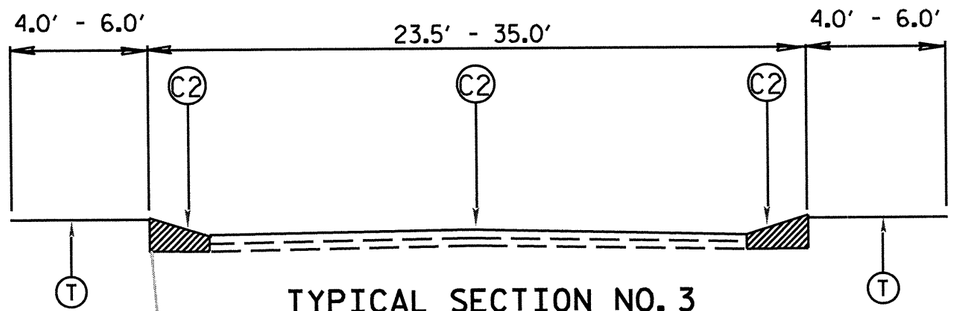
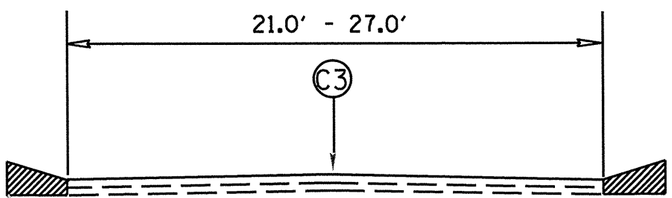


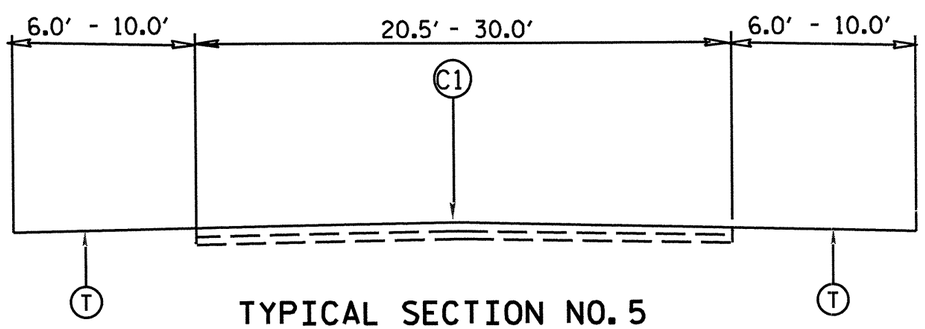
TYPICAL SECTION NO. 3

WEDGED ASPHALT CURB
TO BE OVERLAYED



TYPICAL SECTION NO. 4

WEDGED ASPHALT CURB
(NO OVERLAY)



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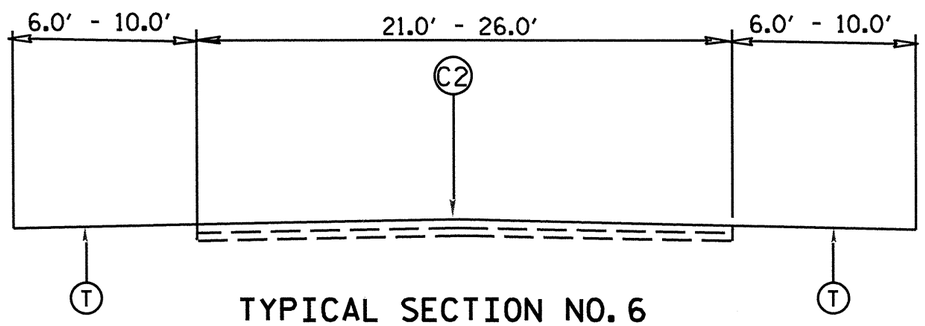

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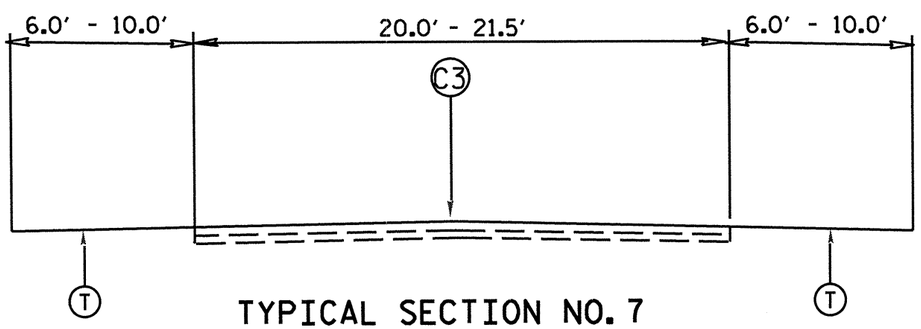

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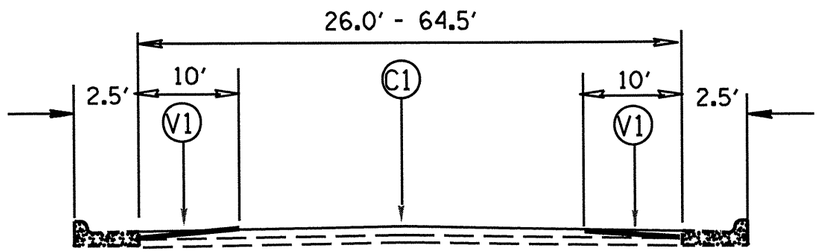

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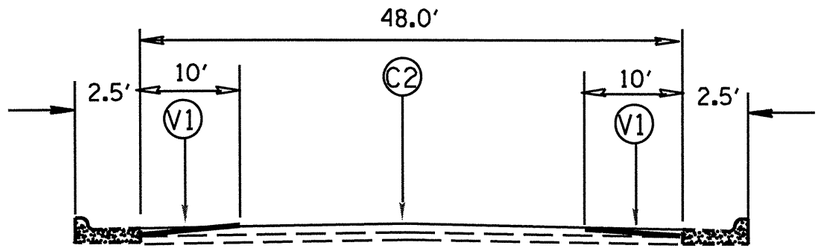

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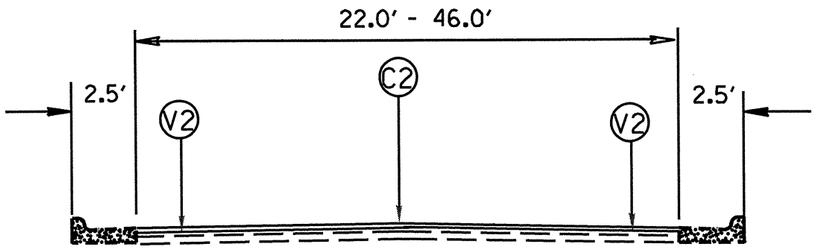
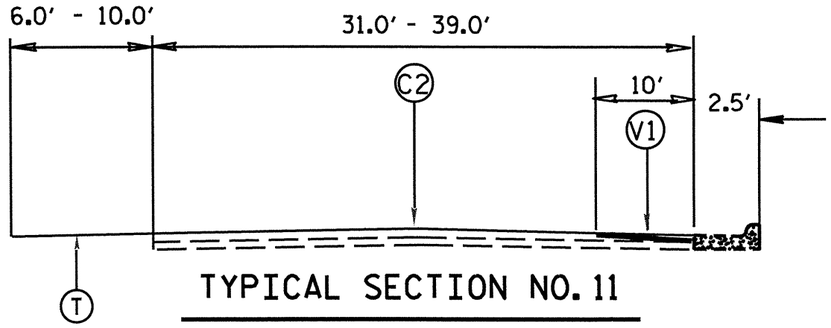


TYPICAL SECTION NO. 10

FULL-WIDTH MILLING



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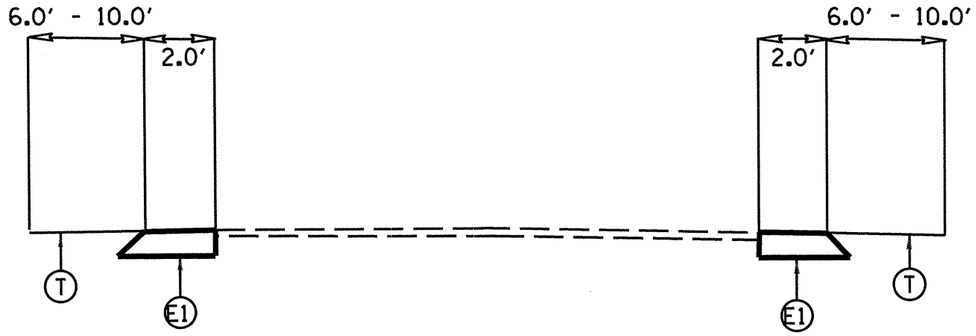
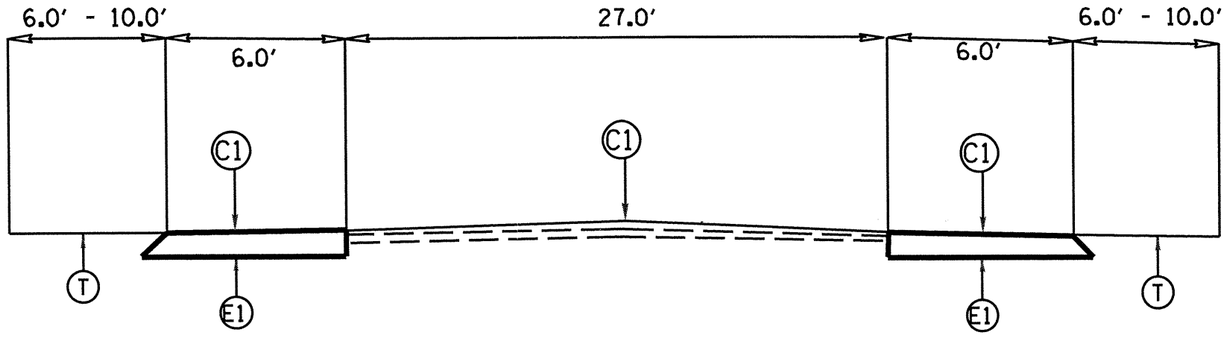


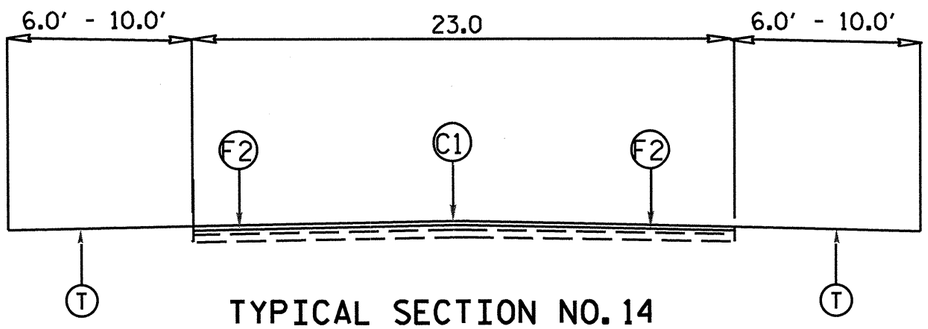
TYPICAL SECTION NO. 12

* PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



TYPICAL SECTION NO. 13

* PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



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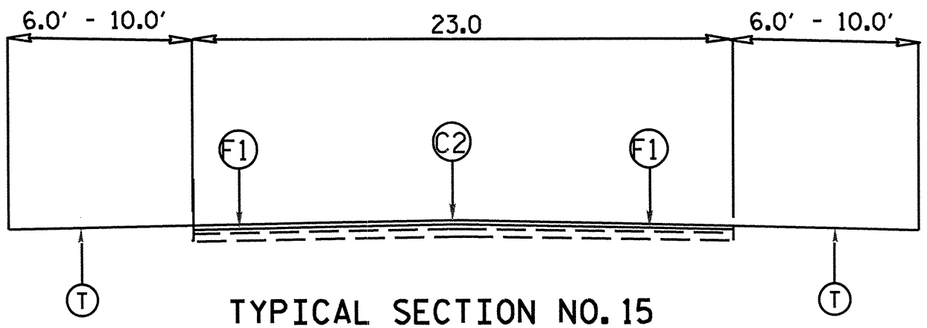

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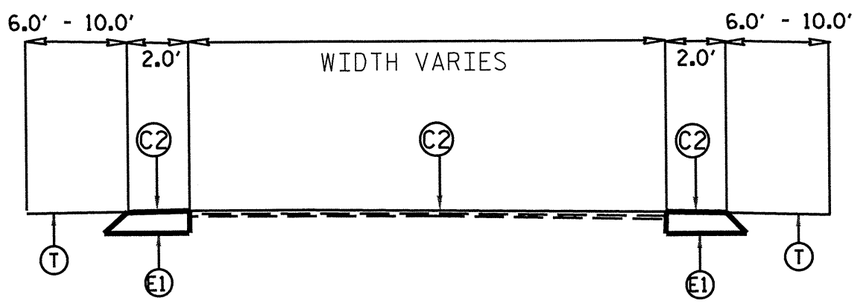

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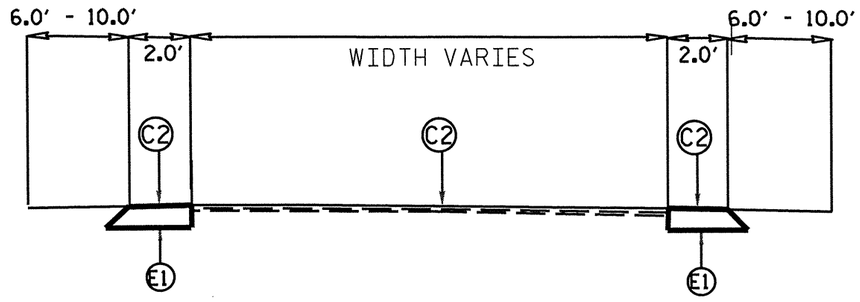
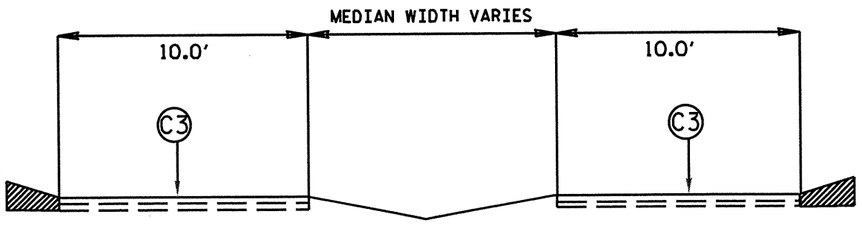


TYPICAL SECTION NO. 18

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



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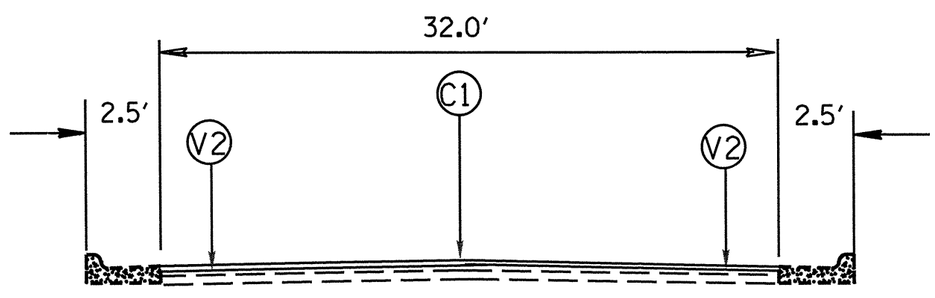
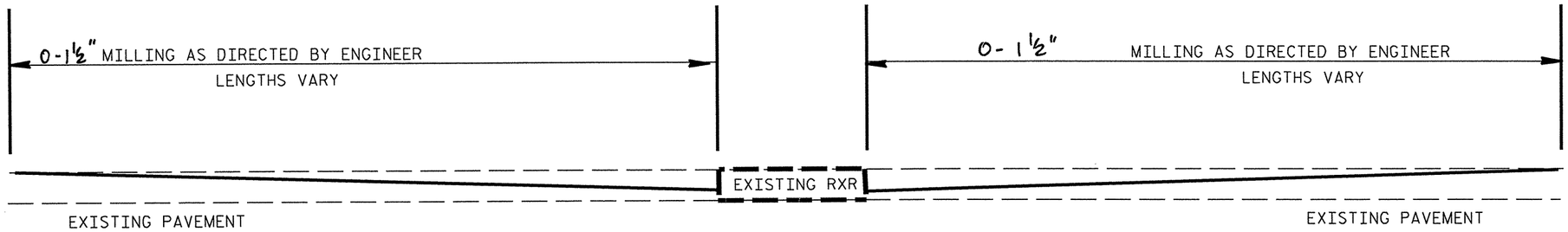


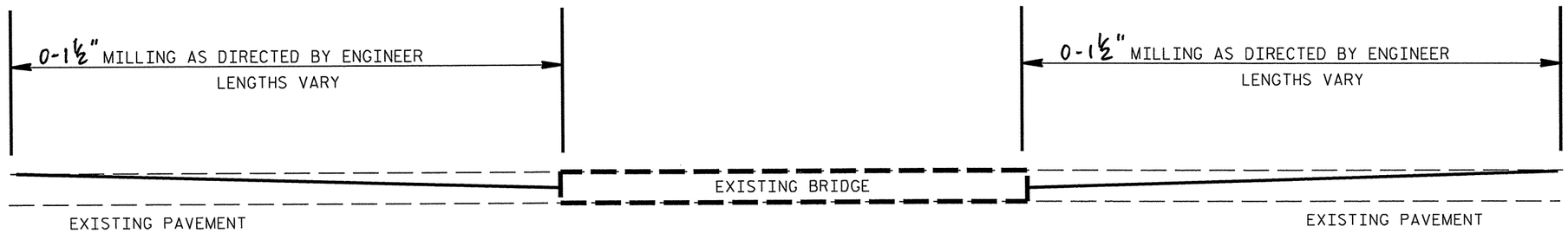
TYPICAL SECTION NO. 19

FULL-WIDTH MILLING

BRIDGE AND RXR MILLING TYPICAL

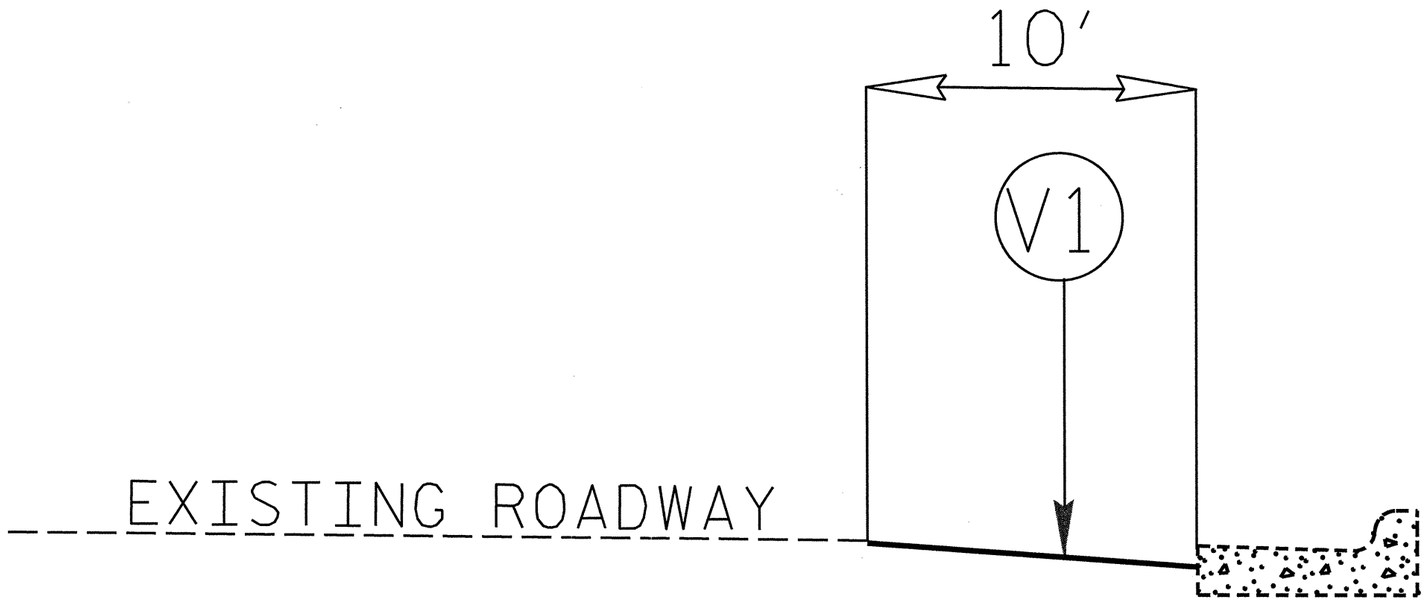


*RXR TYPICAL IS FOR MAP 1

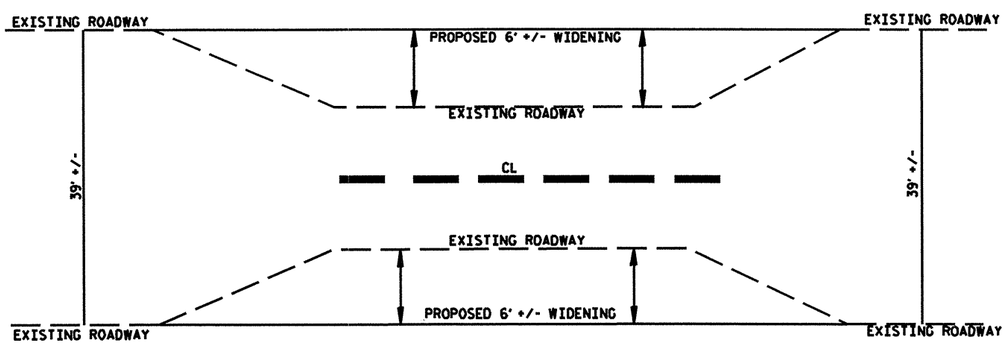


BRIDGE TYPICAL IS FOR MAPS 6, 45, 77, 79, 83 & 86

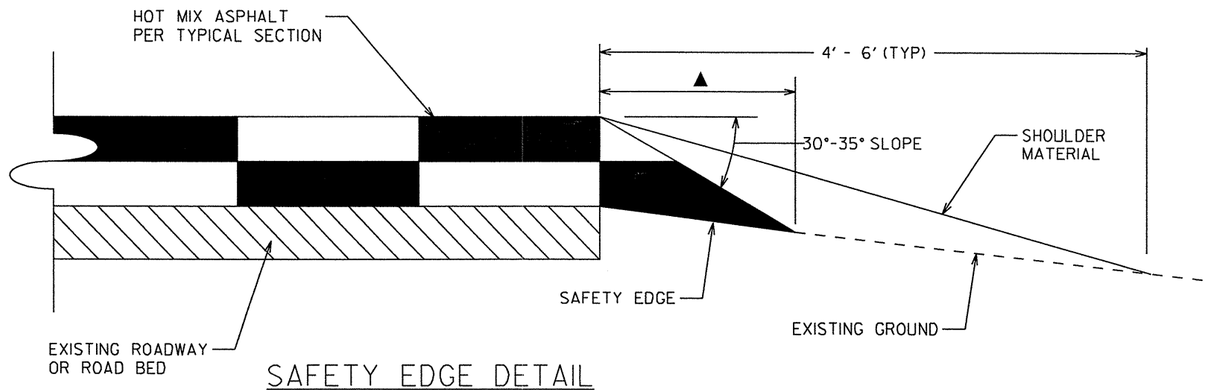
CURB MILLING DETAIL



CURB MILLING DETAIL IS FOR MAPS 43, 44, 45, 84, 85 & 87



NC HWY 55 DETAIL FOR TYPICAL #13



SAFETY EDGE DETAIL

GENERAL NOTES

1. THE SAFETY EDGE WILL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE WILL BE ADDED TO THE SCREED OF THE PAVING MACHINE.

2. SAFETY EDGE IS TO BE USED ON THE SURFACE LAYER ONLY.

3. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS.

4. SITE PREPARATION AND ADDITIONAL EARTHWORK REQUIRED TO CONSTRUCT THE SAFETY EDGE WILL NOT PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	BORROW CY	1½" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	SURFACE COURSE, S4.75A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, MATCOAT, #6 STONE SY	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE SY	RETROFIT EXISTING CURB RAMPS EA	CONCRETE CURB RAMPS EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA
6cr.10261.73	Cumberland	1	NC 82	FROM US 301 TO HARNETT CO.	5	NO	0.71	20.5	17	1.42	28.00		1,323	208		755			45	50						
		"	"	FROM US 301 TO HARNETT COUNTY	14	NO	2.45	23	59	4.90	98.00					2,815			169			33,058				
TOTAL FOR MAP NO. 1							**3.16**		**76**	**6.32**	**126.00**		**1,323**	**208**		**3,570**			**214**	**50**		**33,058**				
6cr.10261.73	Cumberland	2	US 401-A	FROM PVMT JT @ FARMERS RD TO END C&G	8	NO	2.39	64.5					30,741	486		8,294			498	300			8		7	15
TOTAL FOR MAP NO. 2							**2.39**						**30,741**	**486**		**8,294**			**498**	**300**			**8**		**7**	**15**
6cr.10261.73	Cumberland	3	US 401-B	END OF C&G TO PVMT JT AT DUSTY LANE	5	NO	3.07	30	74	6.14	123.00			417		5,176			311	200					1	1
TOTAL FOR MAP NO. 3							**3.07**		**74**	**6.14**	**123.00**			**417**		**5,176**			**311**	**200**					**1**	**1**
TOTAL FOR PROJ NO. 6cr.10261.73							**8.62**		**150**	**12.46**	**249.00**		**32,064**	**1,111**		**17,040**			**1,023**	**550**		**33,058**	**8**		**8**	**16**
6cr.10431.73	Harnett	4	NC 24	FROM MOORE CO TO PVMT JT AT NC 87	5	NO	8.39	25	201	16.78	336.00			1,181		11,497			690	30					1	7
TOTAL FOR MAP NO. 4							**8.39**		**201**	**16.78**	**336.00**			**1,181**		**11,497**			**690**	**30**					**1**	**7**
6cr.10431.73	Harnett	5	NC 27-A	FROM NC 24 TO PVMT JT @ NC 87	5	NO	1.98	28	48	3.96	80.00			556		3,146			189	70					1	4
TOTAL FOR MAP NO. 5							**1.98**		**48**	**3.96**	**80.00**			**556**		**3,146**			**189**	**70**					**1**	**4**
6cr.10431.73	Harnett	6	NC 27-B	FROM SR 1117 TO PVMT JT @ SR 1253	5	NO	5.12	25	123	10.24	205.00		1,613	764		6,446			387	150					1	2
TOTAL FOR MAP NO. 6							**5.12**		**123**	**10.24**	**205.00**		**1,613**	**764**		**6,446**			**387**	**150**					**1**	**2**
6cr.10431.73	Harnett	7	NC 55-A	FROM PVMT JT @ NC 210 TO END C&G	8	NO	0.11	44					1,291			250			15	10					4	4
TOTAL FOR MAP NO. 7							**0.11**						**1,291**			**250**			**15**	**10**					**4**	**4**
6cr.10431.73	Harnett	8	NC 55-B	FROM END C&G TO PVMT JT	13	NO	0.42	39	10	0.84					522	837			73	20					5	4
TOTAL FOR MAP NO. 8							**0.42**		**10**	**0.84**					**522**	**837**			**73**	**20**					**5**	**4**
6cr.10431.73	Harnett	9	US 301-A	FROM PVMT JT @ JOHNSTON CO TO W. GRANVILLE ST	5	NO	4.13	25	99	8.26	166.00			694		5,563			334	20					6	3
TOTAL FOR MAP NO. 9							**4.13**		**99**	**8.26**	**166.00**			**694**		**5,563**			**334**	**20**					**6**	**3**
6cr.10431.73	Harnett	10	US 301-B	FROM BEGIN 2-LANE SECT TO SR 1896	5	NO	0.32	25	8	0.64	13.00			69		407			24							
TOTAL FOR MAP NO. 10							**0.32**		**8**	**0.64**	**13.00**			**69**		**407**			**24**							
TOTAL FOR PROJ NO. 6cr.10431.73							**20.47**		**489**	**40.72**	**800.00**		**2,904**	**3,264**	**522**	**28,146**			**1,712**	**300**					**18**	**24**
6cr.20261.73	Cumberland	11	SR 2563	FROM SR 2562 TO DEAD END	7	NO	0.35	21.5	8	0.70	14.00			69				171	12	20						
TOTAL FOR MAP NO. 11							**0.35**		**8**	**0.70**	**14.00**			**69**				**171**	**12**	**20**						
6cr.20261.73	Cumberland	12	SR 2562	FROM US 401 RO DEAD END	7	NO	0.5	20.5	12	1.00	20.00			69				231	16							
TOTAL FOR MAP NO. 12							**0.5**		**12**	**1.00**	**20.00**			**69**				**231**	**16**							
6cr.20261.73	Cumberland	13	SR 2586	FROM DEAD END TO DEAD END	4	NO	0.58	21										290	20	20						2
TOTAL FOR MAP NO. 13							**0.58**											**290**	**20**	**20**						**2**
6cr.20261.73	Cumberland	14	SR 4102	FROM SR 2586 TO CUL DE SAC	4	NO	0.07	26										40	3	5						2
TOTAL FOR MAP NO. 14							**0.07**											**40**	**3**	**5**						**2**
6cr.20261.73	Cumberland	15	SR 2584	FROM SR 2586 TO SR 2586	4	NO	0.39	26										214	15	20						1
TOTAL FOR MAP NO. 15							**0.39**											**214**	**15**	**20**						**1**
6cr.20261.73	Cumberland	16	SR 2585	FROM US 401 TO SR 2584	1	NO	0.28	21										156	11	10						6
TOTAL FOR MAP NO. 16							**0.28**											**156**	**11**	**10**						**6**
6cr.20261.73	Cumberland	17	SR 2555	FROM SR 2553 TO CUL DE SAC	1	NO	0.07	21										32	2	3						
TOTAL FOR MAP NO. 17							**0.07**											**32**	**2**	**3**						
6cr.20261.73	Cumberland	18	SR 2556	FROM SR 2553 TO CUL DE SAC	1	NO	0.05	20										22	1	3						
TOTAL FOR MAP NO. 18							**0.05**											**22**	**1**	**3**						
6cr.20261.73	Cumberland	19	SR 2577	FROM SR 2553 TO PVMT JT @ WEDGED ASPHALT	1	NO	0.05	20										22	1							
TOTAL FOR MAP NO. 19							**0.05**											**22**	**1**							
6cr.20261.73	Cumberland	20	SR 2553	FROM PVMT JT @ SR 2577 TO PVMT JT @ WEDGED ASPHALT	1	NO	0.12	20										53	4	5						
TOTAL FOR MAP NO. 20							**0.12**											**53**	**4**	**5**						
6cr.20261.73	Cumberland	21	SR 2554	FROM SR 2553 TO WEDGED ASPHALT	1	NO	0.49	20										216	15	5						
TOTAL FOR MAP NO. 21							**0.49**											**216**	**15**	**5**						
6cr.20261.73	Cumberland	22	SR 2548	FROM SR 1606 TO SR 2549	4	NO	0.24	27										143	10	3						2
TOTAL FOR MAP NO. 22							**0.24**											**143**	**10**	**3**						**2**
6cr.20261.73	Cumberland	23	SR 4100	FROM SR 2599 TO CUL DE SAC	4	NO	0.14	27										83	6	1						
TOTAL FOR MAP NO. 23							**0.14**											**83**	**6**	**1**						
6cr.20261.73	Cumberland	24	SR 4101	FROM SR 4100 TO CUL DE SAC	4	NO	0.13	27										77	5	1						
TOTAL FOR MAP NO. 24							**0.13**											**77**	**5**	**1**						
6cr.20261.73	Cumberland	25	SR 2523	FROM US 401 TO CUL DE SAC	3	NO	0.59	23.5		1.18	24.00						671		45	20						
TOTAL FOR MAP NO. 25							**0.59**			**1.18**	**24.00**						**671**		**45**	**20**						
6cr.20261.73	Cumberland	26	SR 2524	FROM SR 2523 TO DEAD END	3	NO	0.27	24		0.54	11.00						314		21	5						
TOTAL FOR MAP NO. 26							**0.27**			**0.54**	**11.00**						**314**		**21**	**5**						
6cr.20261.73	Cumberland	27	SR 2550	FROM SR 2523 TO DEAD END	3	NO	0.12	24		0.24	5.00						139		9	5						
TOTAL FOR MAP NO. 27							**0.12**			**0.24**	**5.00**						**139**		**9**	**5**						
6cr.20261.73	Cumberland	28	SR 2551	FROM SR 2523 TO DEAD END	3	NO	0.07	24		0.14	3.00						81		5	2						
TOTAL FOR MAP NO. 28							**0.07**			**0.14**	**3.00**						**81**		**5**	**2**						
6cr.20261.73	Cumberland	29	SR 2552	FROM SR 2523 TO CUL DE SAC	3	NO	0.06	35		0.12	3.00						102		7	20						
TOTAL FOR MAP NO. 29							**0.06**			**0.12**	**3.00**						**102**		**7**	**20**						
6cr.20261.73	Cumberland	30	SR 2536	FROM SR 1606 TO DEAD END	4	NO	0.93	27										552	38	30						1
TOTAL FOR MAP NO. 30							**0.93**											**552**	**38**	**30**						**1**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	BORROW CY	1½" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	SURFACE COURSE, S4.75A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, MATCOAT, #6 STONE SY	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE SY	RETROFIT EXISTING CURB RAMPS EA	CONCRETE CURB RAMPS EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA
6cr.20261.73	Cumberland	31	SR 2566	FROM SR 1606 TO DEAD END	4	NO	0.32	26										183	12	30						1
TOTAL FOR MAP NO. 31							**0.32**											**183**	**12**	**30**						**1**
6cr.20261.73	Cumberland	32	SR 2572	FROM SR 2566 TO DEAD END	4	NO	0.24	26										137	9	15						
TOTAL FOR MAP NO. 32							**0.24**											**137**	**9**	**15**						
6cr.20261.73	Cumberland	33	SR 2573	FROM SR 2572 TO CUL DE SAC	4	NO	0.51	26										292	20	10						
TOTAL FOR MAP NO. 33							**0.51**											**292**	**20**	**10**						
6cr.20261.73	Cumberland	34	SR 2590	FROM CUL DE SAC TO CUL DE SAC	4	NO	0.25	26										143	10	20						
TOTAL FOR MAP NO. 34							**0.25**											**143**	**10**	**20**						
6cr.20261.73	Cumberland	35	SR 2591	FROM SR 2573 TO CUL DE SAC	4	NO	0.11	26										63	4	20						
TOTAL FOR MAP NO. 35							**0.11**											**63**	**4**	**20**						
6cr.20261.73	Cumberland	36	SR 1606	FROM SR 1607 TO SR 1605	12	NO	1.75	4	42	3.50					1,170				51							
TOTAL FOR MAP NO. 36							**1.75**		**42**	**3.50**					**1,170**				**51**							
6cr.20261.73	Cumberland	37	SR 2599	FROM SR 1606 TO SR 2549	4	NO	0.29	27										172	12	10						2
TOTAL FOR MAP NO. 37							**0.29**											**172**	**12**	**10**						**2**
6cr.20261.73	Cumberland	38	SR 2549	FROM SR 2599 TO SR 2536	4	NO	0.22	27										131	9	3						3
TOTAL FOR MAP NO. 38							**0.22**											**131**	**9**	**3**						**3**
6cr.20261.73	Cumberland	39	SR 1770	FROM US 401 TO SR 1763	7	NO	0.48	20	12	1.00	20.00							211	14	8						
TOTAL FOR MAP NO. 39							**0.48**		**12**	**1.00**	**20.00**							**211**	**14**	**8**						
6cr.20261.73	Cumberland	40	SR 1785	FROM SR 1786 TO SR 1770	7	NO	0.07	20	2	0.14	3.00							31	2	2						
TOTAL FOR MAP NO. 40							**0.07**		**2**	**0.14**	**3.00**							**31**	**2**	**2**						
6cr.20261.73	Cumberland	41	SR 1786	FROM SR 1763 TOSR 1785	7	NO	0.13	20	3	0.26	6.00							57	4	5						
TOTAL FOR MAP NO. 41							**0.13**		**3**	**0.26**	**6.00**							**57**	**4**	**5**						
6cr.20261.73	Cumberland	42	SR 1763	FROM SR 1770 TO DEAD END	7	NO	0.13	20	3	0.26	6.00							57	4	20						
TOTAL FOR MAP NO. 42							**0.13**		**3**	**0.26**	**6.00**							**57**	**4**	**20**						
6cr.20261.73	Cumberland	43	SR 1611	FROM US 401 TO SR 1600	6	NO	2.48	24	60	5.00	100.00		3,579	694			4,491		301	50			7		1	9
TOTAL FOR MAP NO. 43							**2.48**		**60**	**5.00**	**100.00**		**3,579**	**694**			**4,491**		**301**	**50**			**7**		**1**	**9**
6cr.20261.73	Cumberland	44	SR 1600	FROM US 401 TO FAYETTEVILE CL	6	NO	3.67	26	88	7.34	147.00		3,168	764			6,218		417	50					15	16
TOTAL FOR MAP NO. 44							**3.67**		**88**	**7.34**	**147.00**		**3,168**	**764**			**6,218**		**417**	**50**					**15**	**16**
6cr.20261.73	Cumberland	45	SR 1451	FROM NC 87 TO NC 210	6	NO	2.43	25	58	4.86	98.00		2,258	556			3,213		215	20						5
TOTAL FOR MAP NO. 45							**2.43**		**58**	**4.86**	**98.00**		**2,258**	**556**			**3,213**		**215**	**20**						**5**
6cr.20261.73	Cumberland	46	SR 4202	FROM NC 87 TO END STATE MAINT.	11	NO	0.25	39		0.25	5.00		2,112	69			798		53	100			12		1	3
TOTAL FOR MAP NO. 46							**0.25**			**0.25**	**5.00**		**2,112**	**69**			**798**		**53**	**100**			**12**		**1**	**3**
6cr.20261.73	Cumberland	47	SR 3578	FROM SR 1404 TO SR 1404	18	NO	0.46	32				8,636		139		751			45	80			7	2		
TOTAL FOR MAP NO. 47							**0.46**					**8,636**		**139**		**751**			**45**	**80**			**7**	**2**		
6cr.20261.73	Cumberland	48	SR 1404	FROM PVMT JT @ SR 3578 TO NC 87	8	NO	0.32	44					5,726			765			46	60			42		15	8
"	"			FROM PVMT JT @ SR 3578 TO NC 87	8	NO	0.31	26				4,729				397			24							
TOTAL FOR MAP NO. 48							**0.63**					**4,729**	**5,726**			**1,162**			**70**	**60**			**42**		**15**	**8**
6cr.20261.73	Cumberland	49	SR 3637	FROM SR 1311 TO CUL DE SAC	10	NO	0.04	22				516		69			55		4							
TOTAL FOR MAP NO. 49							**0.04**					**516**		**69**			**55**		**4**							
6cr.20261.73	Cumberland	50	SR 1311	FROM SR 1308 TO DEAD END	10	NO	0.35	22				4,517		208			410		27	20						
TOTAL FOR MAP NO. 50							**0.35**					**4,517**		**208**			**410**		**27**	**20**						
6cr.20261.73	Cumberland	51	SR 3672	FROM SR 1311 TO SR 1311	10	NO	0.24	22				3,098					256		17	20						
TOTAL FOR MAP NO. 51							**0.24**					**3,098**					**256**		**17**	**20**						
6cr.20261.73	Cumberland	52	SR 1308	FROM SR 1132 TO SR 3003	10	NO	0.1	46				2,699					272		18							
"	"			FROM SR 1132 TO SR 3003	10	NO	0.23	23				3,103		278			256		17	20						
TOTAL FOR MAP NO. 52							**0.33**					**5,802**		**278**			**528**		**35**	**20**						
6cr.20261.73	Cumberland	53	SR 2234	FROM SR 2235 TO NC 87	12	NO	0.71	4	17	1.42					475				21							
TOTAL FOR MAP NO. 53							**0.71**		**17**	**1.42**					**475**				**21**							
6cr.20261.73	Cumberland	54	SR 3926	FROM SR 3925 TO SR 3923	2	NO	0.28	18									244		16	10						
TOTAL FOR MAP NO. 54							**0.28**										**244**		**16**	**10**						
6cr.20261.73	Cumberland	55	SR 3923	FROM SR 2252 TO END STATE MAINT	2	NO	0.45	21.5						69			481		32	50						
TOTAL FOR MAP NO. 55							**0.45**							**69**			**481**		**32**	**50**						
6cr.20261.73	Cumberland	56	SR 3924	FROM SR 3925 TO SR 3923	19	NO	0.09	22							60		96		9	5						
TOTAL FOR MAP NO. 56							**0.09**								**60**		**96**		**9**	**5**						
6cr.20261.73	Cumberland	57	SR 3925	FROM SR 2252 TO END STATE MAINT	2	NO	0.15	22						69			172		12	10						
TOTAL FOR MAP NO. 57							**0.15**							**69**			**172**		**12**	**10**						
6cr.20261.73	Cumberland	58	SR 2313	FROM SR 2239 TO END STATE MAINT	2	NO	0.29	20.5						69			300		20	10						
TOTAL FOR MAP NO. 58							**0.29**							**69**			**300**		**20**	**10**						
6cr.20261.73	Cumberland	59	SR 3629	FROM CUL DE SAC TO CUL DE SAC	1	NO	0.44	20										194	13	15						
TOTAL FOR MAP NO. 59							**0.44**											**194**	**13**	**15**						
6cr.20261.73	Cumberland	60	SR 3631	FROM SR 3628 TO SR 3629	1	NO	0.2	21										92	6	3						
TOTAL FOR MAP NO. 60							**0.2**											**92**	**6**	**3**						
6cr.20261.73	Cumberland	61	SR 3714	FROM SR 3628 TO DEAD END	4	NO	0.09	24										48	3	3					1	
TOTAL FOR MAP NO. 61							**0.09**											**48**	**3**	**3**					**1**	
6cr.20261.73	Cumberland	62	SR 3628	FROM SR 1345 TO CUL DE SAC	4	NO	0.38	21										176	12	40						
"	"			FROM SR 1345 TO CUL DE SAC	4	NO	0.36	27										214	15								
TOTAL FOR MAP NO. 62							**0.74**											**390**	**27**	**40**						
6cr.20261.73	Cumberland	63	SR 4023	FROM SR 4020 TO CUL DE SAC	4	NO	0.04	26										23	2	3						
TOTAL FOR MAP NO. 63							**0.04**											**23**	**2**	**3**						
6cr.20261.73	Cumberland	64	SR 4024	FROM SR 4020 TO CUL DE SAC	4	NO	0.46	26										263	18	5						
TOTAL FOR MAP NO. 64							**0.46**											**263**	**18**	**5**						
6cr.20261.73	Cumberland	65	SR 4025	FROM SR 4020 TO CUL DE SAC	4	NO	0.1	26										57	4	3					1	
TOTAL FOR MAP NO. 65							**0.1**											**57**	**4**	**3**					**1**	
6cr.20261.73	Cumberland	66	SR 3367	FROM SR 1108 TO DEAD END	1	NO	0.78	20										343	23	5						
TOTAL FOR MAP NO. 66							**0.78**											**343**	**23**	**5**						

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	BORROW CY	1½" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	SURFACE COURSE, S4.75A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, MATCOAT, #6 STONE SY	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE SY	RETROFIT EXISTING CURB RAMPS EA	CONCRETE CURB RAMPS EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA
6cr.20261.73	Cumberland	67	SR 3678	FROM SR 3628 TO CUL DE SAC	4	NO	0.06	26										34	2	2						
TOTAL FOR MAP NO. 67							**0.06**											**34**	**2**	**2**						
6cr.20261.73	Cumberland	68	SR 3639	FROM SR 1108 TO SR 3640	17	NO	0.08	20										35	2							1
TOTAL FOR MAP NO. 68							**0.08**											**35**	**2**							**1**
6cr.20261.73	Cumberland	69	SR 3640	FROM SR 3639 TO SR 3639	4	NO	0.97	27										576	39	10					3	6
TOTAL FOR MAP NO. 69							**0.97**											**576**	**39**	**10**					**3**	**6**
6cr.20261.73	Cumberland	70	SR 3641	FROM SR 3640 TO SR 3640	4	NO	0.28	27										166	11	1						
TOTAL FOR MAP NO. 70							**0.28**											**166**	**11**	**1**						
6cr.20261.73	Cumberland	71	SR 3642	FROM SR 3640 TO SR 3640	4	NO	0.23	27										137	9	1						
TOTAL FOR MAP NO. 71							**0.23**											**137**	**9**	**1**						
6cr.20261.73	Cumberland	72	SR 3643	FROM SR 3640 TO SR 1345	4	NO	0.08	27										48	3	1						3
TOTAL FOR MAP NO. 72							**0.08**											**48**	**3**	**1**						**3**
6cr.20261.73	Cumberland	73	SR 3630	FROM SR 3628 TO CUL DE SAC	1	NO	0.05	21										23	2	3						
TOTAL FOR MAP NO. 73							**0.05**											**23**	**2**	**3**						
6cr.20261.73	Cumberland	74	SR 4022	FROM SR 4020 TO DEAD END	4	NO	0.08	26										46	3							
TOTAL FOR MAP NO. 74							**0.08**											**46**	**3**							
6cr.20261.73	Cumberland	75	SR 4021	FROM SR 4020 TO CUL DE SAC	4	NO	0.07	26										40	3	1						
TOTAL FOR MAP NO. 75							**0.07**											**40**	**3**	**1**						
6cr.20261.73	Cumberland	76	SR 4020	FROM SR 3367 TO SR 4024	4	NO	0.54	26										309	21	5						
TOTAL FOR MAP NO. 76							**0.54**											**309**	**21**	**5**						
TOTAL FOR PROJ NO. 6cr.20261.73							**28.14**		**305**	**27.95**	**465.00**	**27,298**	**16,843**	**3,122**	**1,705**	**1,913**	**18,569**	**6,603**	**1,882**	**927**			**68**	**2**	**37**	**71**
6cr.20431.73	Harnett	77	SR 1120	FROM NC 87 TO SR 1121	6	NO	3.68	25.5	88	7.36	148.00		1,613	278			4,649		311	20					1	1
TOTAL FOR MAP NO. 77							**3.68**		**88**	**7.36**	**148.00**		**1,613**	**278**			**4,649**		**311**	**20**					**1**	**1**
6cr.20431.73	Harnett	78	SR 1116	FROM SR 1117 TO NC 27	6	NO	3.15	23	76	6.30	126.00			556			3,606		242	10						3
TOTAL FOR MAP NO. 78							**3.15**		**76**	**6.30**	**126.00**			**556**			**3,606**		**242**	**10**						**3**
6cr.20431.73	Harnett	79	SR 1703	FROM SR 1725 TO NC 27	6	NO	4.8	23	115	9.60	192.00		1,484	764			5,479		367	175					1	2
TOTAL FOR MAP NO. 79							**4.8**		**115**	**9.60**	**192.00**		**1,484**	**764**			**5,479**		**367**	**175**					**1**	**2**
6cr.20431.73	Harnett	80	SR 1554-A	FROM NC 27 TO SR 1558	6	NO	1.19	22	29	2.38	48.00			139			1,292		87	100						
TOTAL FOR MAP NO. 80							**1.19**		**29**	**2.38**	**48.00**			**139**			**1,292**		**87**	**100**						
6cr.20431.73	Harnett	81	SR 1554-B	FROM SR 1558 TO SR 1553	16	NO	2.36	22	57	4.72				347	1,578		2,575		242	30						
TOTAL FOR MAP NO. 81							**2.36**		**57**	**4.72**				**347**	**1,578**		**2,575**		**242**	**30**						
6cr.20431.73	Harnett	82	SR 1720	FROM SR 1725 TO SR 1703	6	NO	0.97	22.5	23	2.00	40.00			139			1,081		72							1
TOTAL FOR MAP NO. 82							**0.97**		**23**	**2.00**	**40.00**			**139**			**1,081**		**72**							**1**
6cr.20431.73	Harnett	83	SR 1725-A	FROM SR 1703 TO SR 1719	6	NO	1.48	23.5	36	3.00	60.00		3,033	417			1,758		118	8					1	3
TOTAL FOR MAP NO. 83							**1.48**		**36**	**3.00**	**60.00**		**3,033**	**417**			**1,758**		**118**	**8**					**1**	**3**
6cr.20431.73	Harnett	84	SR 1725-B	FROM SR 1719 TO W. BROAD ST	6	NO	0.87	24	21	1.74	35.00		352	139			1,105		74						5	5
TOTAL FOR MAP NO. 84							**0.87**		**21**	**1.74**	**35.00**		**352**	**139**			**1,105**		**74**						**5**	**5**
6cr.20431.73	Harnett	85	SR 1790	FROM SR 1780 TO US 421	15	NO	2.32	23	56	4.64	93.00		1,643	139			2,669		179	200	31,305		1		11	9
TOTAL FOR MAP NO. 85							**2.32**		**56**	**4.64**	**93.00**		**1,643**	**139**			**2,669**		**179**	**200**	**31,305**		**1**		**11**	**9**
6cr.20431.73	Harnett	86	SR 1808-A	FROM SR 1709 TO COOPER ST	6	NO	1.73	21	42	5.10	102.00		1,484	347			1,820		122	20						
		"	"	FROM SR 1709 TO COOPER ST	6	NO	0.82	23									913		61							
TOTAL FOR MAP NO. 86							**2.55**		**42**	**5.10**	**102.00**		**1,484**	**347**			**2,733**		**183**	**20**						
6cr.20431.73	Harnett	87	SR 1808-B	COOPER ST TO BEGIN TAPER	11	NO	0.43	31	10	0.73	15.00		2,523	139			670		45	5						2
		"	"	FROM COOPER ST TO BEGING TAPER	6	NO	0.15	23									167		11							
TOTAL FOR MAP NO. 87							**0.58**		**10**	**0.73**	**15.00**		**2,523**	**139**			**837**		**56**	**5**						**2**
6cr.20431.73	Harnett	88	SR 1808-C	BEGIN TAPER TO US 301	9	NO	0.23	48					2,112				534		36	25					5	7
TOTAL FOR MAP NO. 88							**0.23**						**2,112**				**534**		**36**	**25**					**5**	**7**
TOTAL FOR PROJ NO. 6cr.20431.73							**24.18**		**553**	**47.57**	**859.00**		**14,244**	**3,404**	**1,578**		**28,318**		**1,967**	**593**	**31,305**		**1**		**24**	**33**
GRAND TOTAL							**81.41**		**1,497**	**128.70**	**2,373.00**	**27,298**	**66,055**	**10,901**	**3,805**	**47,099**	**46,887**	**6,603**	**6,584**	**2,370**	**31,305**	**33,058**	**77**	**2**	**87**	**144**

PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.10261.73, 6cr.10431.73 6cr.20261.73, ETC.	35	

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	TEMPORARY SILT FENCE LF	MATTING FOR EROSION CONTROL SY	WATTLE LF	POLYACRYLAMIDE (PAM) LB	SEEDING & MULCHING ACR	PAVED TRENCHING (1 CONDUIT, 2") LF	UNPAVED TRENCHING (1 CONDUIT, 1") LF	UNPAVED TRENCHING (1 CONDUIT, 2") LF	JUNCTION BOX (STANDARD) EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE (14-2) LF	WORK ZONE TRAFFIC CONTROL LS
6cr.10261.73	Cumberland	1	NC 82	FROM US 301 TO HARNETT CO.	5	NO	0.71	20.5	316	20	50	2	2									
		"	"	FROM US 301 TO HARNETT COUNTY	14	NO	2.45	23					6									
TOTAL FOR MAP NO. 1							**3.16**		**316**	**20**	**50**	**2**	**8**									
6cr.10261.73	Cumberland	2	US 401-A	FROM PVMT JT @ FARMERS RD TO END C&G	8	NO	2.39	64.5						30.00	90.00	300.00	3.00	3.00	3.00	3,500.00	300.00	1.00
TOTAL FOR MAP NO. 2							**2.39**							**30.00**	**90.00**	**300.00**	**3.00**	**3.00**	**3.00**	**3,500.00**	**300.00**	**1.00**
6cr.10261.73	Cumberland	3	US 401-B	END OF C&G TO PVMT JT AT DUSTY LANE	5	NO	3.07	30	307	20	50	2	7									
TOTAL FOR MAP NO. 3							**3.07**		**307**	**20**	**50**	**2**	**7**									
TOTAL FOR PROJ NO. 6cr.10261.73							**8.62**		**623**	**40**	**100**	**4**	**15**	**30.00**	**90.00**	**300.00**	**3.00**	**3.00**	**3.00**	**3,500.00**	**300.00**	**1.00**
6cr.10431.73	Harnett	4	NC 24	FROM MOORE CO TO PVMT JT AT NC 87	5	NO	8.39	25	839	60	130	5	20									
TOTAL FOR MAP NO. 4							**8.39**		**839**	**60**	**130**	**5**	**20**									
6cr.10431.73	Harnett	5	NC 27-A	FROM NC 24 TO PVMT JT @ NC 87	5	NO	1.98	28	198	20	30	1	5									
TOTAL FOR MAP NO. 5							**1.98**		**198**	**20**	**30**	**1**	**5**									
6cr.10431.73	Harnett	6	NC 27-B	FROM SR 1117 TO PVMT JT @ SR 1253	5	NO	5.12	25	512	40	80	3	12									
TOTAL FOR MAP NO. 6							**5.12**		**512**	**40**	**80**	**3**	**12**									
6cr.10431.73	Harnett	7	NC 55-A	FROM PVMT JT @ NC 210 TO END C&G	8	NO	0.11	44														
TOTAL FOR MAP NO. 7							**0.11**															
6cr.10431.73	Harnett	8	NC 55-B	FROM END C&G TO PVMT JT	13	NO	0.42	39	42	10	10	0	1									
TOTAL FOR MAP NO. 8							**0.42**		**42**	**10**	**10**	**0**	**1**									
6cr.10431.73	Harnett	9	US 301-A	FROM PVMT JT @ JOHNSTON CO TO W. GRANVILLE ST	5	NO	4.13	25	413	30	70	3	10	10.00	30.00	100.00	1.00	1.00	1.00	775.00	100.00	
TOTAL FOR MAP NO. 9							**4.13**		**413**	**30**	**70**	**3**	**10**	**10.00**	**30.00**	**100.00**	**1.00**	**1.00**	**1.00**	**775.00**	**100.00**	
6cr.10431.73	Harnett	10	US 301-B	FROM BEGIN 2-LANE SECT TO SR 1896	5	NO	0.32	25	32	10	10	0	1									
TOTAL FOR MAP NO. 10							**0.32**		**32**	**10**	**10**	**0**	**1**									
TOTAL FOR PROJ NO. 6cr.10431.73							**20.47**		**2,036**	**170**	**330**	**13**	**49**	**10.00**	**30.00**	**100.00**	**1.00**	**1.00**	**1.00**	**775.00**	**100.00**	
6cr.20261.73	Cumberland	11	SR 2563	FROM SR 2562 TO DEAD END	7	NO	0.35	21.5	35	10	10	0	1									
TOTAL FOR MAP NO. 11							**0.35**		**35**	**10**	**10**	**0**	**1**									
6cr.20261.73	Cumberland	12	SR 2562	FROM US 401 RO DEAD END	7	NO	0.5	20.5	50	10	10	0	1									
TOTAL FOR MAP NO. 12							**0.5**		**50**	**10**	**10**	**0**	**1**									
6cr.20261.73	Cumberland	13	SR 2586	FROM DEAD END TO DEAD END	4	NO	0.58	21														
TOTAL FOR MAP NO. 13							**0.58**															
6cr.20261.73	Cumberland	14	SR 4102	FROM SR 2586 TO CUL DE SAC	4	NO	0.07	26														
TOTAL FOR MAP NO. 14							**0.07**															
6cr.20261.73	Cumberland	15	SR 2584	FROM SR 2586 TO SR 2586	4	NO	0.39	26														
TOTAL FOR MAP NO. 15							**0.39**															
6cr.20261.73	Cumberland	16	SR 2585	FROM US 401 TO SR 2584	1	NO	0.28	21														
TOTAL FOR MAP NO. 16							**0.28**															
6cr.20261.73	Cumberland	17	SR 2555	FROM SR 2553 TO CUL DE SAC	1	NO	0.07	21														
TOTAL FOR MAP NO. 17							**0.07**															
6cr.20261.73	Cumberland	18	SR 2556	FROM SR 2553 TO CUL DE SAC	1	NO	0.05	20														
TOTAL FOR MAP NO. 18							**0.05**															
6cr.20261.73	Cumberland	19	SR 2577	FROM SR 2553 TO PVMT JT @ WEDGED ASPHALT	1	NO	0.05	20														
TOTAL FOR MAP NO. 19							**0.05**															
6cr.20261.73	Cumberland	20	SR 2553	FROM PVMT JT @ SR 2577 TO PVMT JT @ WEDGED ASPHALT	1	NO	0.12	20														
TOTAL FOR MAP NO. 20							**0.12**															
6cr.20261.73	Cumberland	21	SR 2554	FROM SR 2553 TO WEDGED ASPHALT	1	NO	0.49	20														
TOTAL FOR MAP NO. 21							**0.49**															
6cr.20261.73	Cumberland	22	SR 2548	FROM SR 1606 TO SR 2549	4	NO	0.24	27														
TOTAL FOR MAP NO. 22							**0.24**															
6cr.20261.73	Cumberland	23	SR 4100	FROM SR 2599 TO CUL DE SAC	4	NO	0.14	27														
TOTAL FOR MAP NO. 23							**0.14**															
6cr.20261.73	Cumberland	24	SR 4101	FROM SR 4100 TO CUL DE SAC	4	NO	0.13	27														
TOTAL FOR MAP NO. 24							**0.13**															
6cr.20261.73	Cumberland	25	SR 2523	FROM US 401 TO CUL DE SAC	3	NO	0.59	23.5	59	10	10	0	1									
TOTAL FOR MAP NO. 25							**0.59**		**59**	**10**	**10**	**0**	**1**									
6cr.20261.73	Cumberland	26	SR 2524	FROM SR 2523 TO DEAD END	3	NO	0.27	24	27	10	10	0	1									
TOTAL FOR MAP NO. 26							**0.27**		**27**	**10**	**10**	**0**	**1**									
6cr.20261.73	Cumberland	27	SR 2550	FROM SR 2523 TO DEAD END	3	NO	0.12	24	12	10	10	0	0									
TOTAL FOR MAP NO. 27							**0.12**		**12**	**10**	**10**	**0**	**0**									
6cr.20261.73	Cumberland	28	SR 2551	FROM SR 2523 TO DEAD END	3	NO	0.07	24	7	10	10	0	0									
TOTAL FOR MAP NO. 28							**0.07**		**7**	**10**	**10**	**0**	**0**									
6cr.20261.73	Cumberland	29	SR 2552	FROM SR 2523 TO CUL DE SAC	3	NO	0.06	35	6	10	10	0	0									
TOTAL FOR MAP NO. 29							**0.06**		**6**	**10**	**10**	**0**	**0**									
6cr.20261.73	Cumberland	30	SR 2536	FROM SR 1606 TO DEAD END	4	NO	0.93	27														
TOTAL FOR MAP NO. 30							**0.93**															

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	TEMPORARY SILT FENCE LF	MATTING FOR EROSION CONTROL SY	WATTLE LF	POLYACRYLAMIDE (PAM) LB	SEEDING & MULCHING ACR	PAVED TRENCHING (1 CONDUIT, 2") LF	UNPAVED TRENCHING (1 CONDUIT, 1") LF	UNPAVED TRENCHING (1 CONDUIT, 2") LF	JUNCTION BOX (STANDARD) EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE (14-2) LF	WORK ZONE TRAFFIC CONTROL LS
6cr.20261.73	Cumberland	31	SR 2566	FROM SR 1606 TO DEAD END	4	NO	0.32	26														
TOTAL FOR MAP NO. 31							**0.32**															
6cr.20261.73	Cumberland	32	SR 2572	FROM SR 2566 TO DEAD END	4	NO	0.24	26														
TOTAL FOR MAP NO. 32							**0.24**															
6cr.20261.73	Cumberland	33	SR 2573	FROM SR 2572 TO CUL DE SAC	4	NO	0.51	26														
TOTAL FOR MAP NO. 33							**0.51**															
6cr.20261.73	Cumberland	34	SR 2590	FROM CUL DE SAC TO CUL DE SAC	4	NO	0.25	26														
TOTAL FOR MAP NO. 34							**0.25**															
6cr.20261.73	Cumberland	35	SR 2591	FROM SR 2573 TO CUL DE SAC	4	NO	0.11	26														
TOTAL FOR MAP NO. 35							**0.11**															
6cr.20261.73	Cumberland	36	SR 1606	FROM SR 1607 TO SR 1605	12	NO	1.75	4	175	20	30	1	4									
TOTAL FOR MAP NO. 36							**1.75**		**175**	**20**	**30**	**1**	**4**									
6cr.20261.73	Cumberland	37	SR 2599	FROM SR 1606 TO SR 2549	4	NO	0.29	27														
TOTAL FOR MAP NO. 37							**0.29**															
6cr.20261.73	Cumberland	38	SR 2549	FROM SR 2599 TO SR 2536	4	NO	0.22	27														
TOTAL FOR MAP NO. 38							**0.22**															
6cr.20261.73	Cumberland	39	SR 1770	FROM US 401 TO SR 1763	7	NO	0.48	20	48	10	10	0	1									
TOTAL FOR MAP NO. 39							**0.48**		**48**	**10**	**10**	**0**	**1**									
6cr.20261.73	Cumberland	40	SR 1785	FROM SR 1786 TO SR 1770	7	NO	0.07	20	7	10	10	0	0									
TOTAL FOR MAP NO. 40							**0.07**		**7**	**10**	**10**	**0**	**0**									
6cr.20261.73	Cumberland	41	SR 1786	FROM SR 1763 TOSR 1785	7	NO	0.13	20	13	10	10	0	0									
TOTAL FOR MAP NO. 41							**0.13**		**13**	**10**	**10**	**0**	**0**									
6cr.20261.73	Cumberland	42	SR 1763	FROM SR 1770 TO DEAD END	7	NO	0.13	20	13	10	10	0	0									
TOTAL FOR MAP NO. 42							**0.13**		**13**	**10**	**10**	**0**	**0**									
6cr.20261.73	Cumberland	43	SR 1611	FROM US 401 TO SR 1600	6	NO	2.48	24	248	20	40	2	6	10.00	30.00	100.00	1.00	1.00	1.00	525.00	100.00	
TOTAL FOR MAP NO. 43							**2.48**		**248**	**20**	**40**	**2**	**6**	**10.00**	**30.00**	**100.00**	**1.00**	**1.00**	**1.00**	**525.00**	**100.00**	
6cr.20261.73	Cumberland	44	SR 1600	FROM US 401 TO FAYETTEVILE CL	6	NO	3.67	26	367	30	60	2	9	40.00	120.00	400.00	4.00		4.00	5,575.00	400.00	
TOTAL FOR MAP NO. 44							**3.67**		**367**	**30**	**60**	**2**	**9**	**40.00**	**120.00**	**400.00**	**4.00**		**4.00**	**5,575.00**	**400.00**	
6cr.20261.73	Cumberland	45	SR 1451	FROM NC 87 TO NC 210	6	NO	2.43	25	243	20	40	2	6	20.00	60.00	200.00	2.00	2.00	2.00	885.00	200.00	
TOTAL FOR MAP NO. 45							**2.43**		**243**	**20**	**40**	**2**	**6**	**20.00**	**60.00**	**200.00**	**2.00**	**2.00**	**2.00**	**885.00**	**200.00**	
6cr.20261.73	Cumberland	46	SR 4202	FROM NC 87 TO END STATE MAINT.	11	NO	0.25	39	25	10	10	0	1	10.00	30.00	100.00	1.00	1.00	1.00	900.00	100.00	
TOTAL FOR MAP NO. 46							**0.25**		**25**	**10**	**10**	**0**	**1**	**10.00**	**30.00**	**100.00**	**1.00**	**1.00**	**1.00**	**900.00**	**100.00**	
6cr.20261.73	Cumberland	47	SR 3578	FROM SR 1404 TO SR 1404	18	NO	0.46	32						10.00	30.00	100.00	1.00	1.00	1.00	855.00	100.00	
TOTAL FOR MAP NO. 47							**0.46**							**10.00**	**30.00**	**100.00**	**1.00**	**1.00**	**1.00**	**855.00**	**100.00**	
6cr.20261.73	Cumberland	48	SR 1404	FROM PVMT JT @ SR 3578 TO NC 87	8	NO	0.32	44						20.00	60.00	200.00	2.00	2.00	2.00	2,140.00	200.00	
		"	"	FROM PVMT JT @ SR 3578 TO NC 87	8	NO	0.31	26														
TOTAL FOR MAP NO. 48							**0.63**							**20.00**	**60.00**	**200.00**	**2.00**	**2.00**	**2.00**	**2,140.00**	**200.00**	
6cr.20261.73	Cumberland	49	SR 3637	FROM SR 1311 TO CUL DE SAC	10	NO	0.04	22														
TOTAL FOR MAP NO. 49							**0.04**															
6cr.20261.73	Cumberland	50	SR 1311	FROM SR 1308 TO DEAD END	10	NO	0.35	22														
TOTAL FOR MAP NO. 50							**0.35**															
6cr.20261.73	Cumberland	51	SR 3672	FROM SR 1311 TO SR 1311	10	NO	0.24	22														
TOTAL FOR MAP NO. 51							**0.24**															
6cr.20261.73	Cumberland	52	SR 1308	FROM SR 1132 TO SR 3003	10	NO	0.1	46														
		"	"	FROM SR 1132 TO SR 3003	10	NO	0.23	23														
TOTAL FOR MAP NO. 52							**0.33**															
6cr.20261.73	Cumberland	53	SR 2234	FROM SR 2235 TO NC 87	12	NO	0.71	4	71	10	20	1	2									
TOTAL FOR MAP NO. 53							**0.71**		**71**	**10**	**20**	**1**	**2**									
6cr.20261.73	Cumberland	54	SR 3926	FROM SR 3925 TO SR 3923	2	NO	0.28	18														
TOTAL FOR MAP NO. 54							**0.28**															
6cr.20261.73	Cumberland	55	SR 3923	FROM SR 2252 TO END STATE MAINT	2	NO	0.45	21.5														
TOTAL FOR MAP NO. 55							**0.45**															
6cr.20261.73	Cumberland	56	SR 3924	FROM SR 3925 TO SR 3923	19	NO	0.09	22														
TOTAL FOR MAP NO. 56							**0.09**															
6cr.20261.73	Cumberland	57	SR 3925	FROM SR 2252 TO END STATE MAINT	2	NO	0.15	22														
TOTAL FOR MAP NO. 57							**0.15**															
6cr.20261.73	Cumberland	58	SR 2313	FROM SR 2239 TO END STATE MAINT	2	NO	0.29	20.5														
TOTAL FOR MAP NO. 58							**0.29**															
6cr.20261.73	Cumberland	59	SR 3629	FROM CUL DE SAC TO CUL DE SAC	1	NO	0.44	20														
TOTAL FOR MAP NO. 59							**0.44**															
6cr.20261.73	Cumberland	60	SR 3631	FROM SR 3628 TO SR 3629	1	NO	0.2	21														
TOTAL FOR MAP NO. 60							**0.2**															
6cr.20261.73	Cumberland	61	SR 3714	FROM SR 3628 TO DEAD END	4	NO	0.09	24														
TOTAL FOR MAP NO. 61							**0.09**															
6cr.20261.73	Cumberland	62	SR 3628	FROM SR 1345 TO CUL DE SAC	4	NO	0.38	21														
		"	"	FROM SR 1345 TO CUL DE SAC	4	NO	0.36	27														
TOTAL FOR MAP NO. 62							**0.74**															
6cr.20261.73	Cumberland	63	SR 4023	FROM SR 4020 TO CUL DE SAC	4	NO	0.04	26														
TOTAL FOR MAP NO. 63							**0.04**															
6cr.20261.73	Cumberland	64	SR 4024	FROM SR 4020 TO CUL DE SAC	4	NO	0.46	26														
TOTAL FOR MAP NO. 64							**0.46**															
6cr.20261.73	Cumberland	65	SR 4025	FROM SR 4020 TO CUL DE SAC	4	NO	0.1	26														
TOTAL FOR MAP NO. 65							**0.1**															
6cr.20261.73	Cumberland	66	SR 3367	FROM SR 1108 TO DEAD END	1	NO	0.78	20														
TOTAL FOR MAP NO. 66							**0.78**															

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	TEMPORARY SILT FENCE LF	MATTING FOR EROSION CONTROL SY	WATTLE LF	POLYACRYLAMIDE (PAM) LB	SEEDING & MULCHING ACR	PAVED TRENCHING (1 CONDUIT, 2") LF	UNPAVED TRENCHING (1 CONDUIT, 1") LF	UNPAVED TRENCHING (1 CONDUIT, 2") LF	JUNCTION BOX (STANDARD) EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE (14-2) LF	WORK ZONE TRAFFIC CONTROL LS
6cr.20261.73	Cumberland	67	SR 3678	FROM SR 3628 TO CUL DE SAC	4	NO	0.06	26														
TOTAL FOR MAP NO. 67							**0.06**															
6cr.20261.73	Cumberland	68	SR 3639	FROM SR 1108 TO SR 3640	17	NO	0.08	20														
TOTAL FOR MAP NO. 68							**0.08**															
6cr.20261.73	Cumberland	69	SR 3640	FROM SR 3639 TO SR 3639	4	NO	0.97	27														
TOTAL FOR MAP NO. 69							**0.97**															
6cr.20261.73	Cumberland	70	SR 3641	FROM SR 3640 TO SR 3640	4	NO	0.28	27														
TOTAL FOR MAP NO. 70							**0.28**															
6cr.20261.73	Cumberland	71	SR 3642	FROM SR 3640 TO SR 3640	4	NO	0.23	27														
TOTAL FOR MAP NO. 71							**0.23**															
6cr.20261.73	Cumberland	72	SR 3643	FROM SR 3640 TO SR 1345	4	NO	0.08	27														
TOTAL FOR MAP NO. 72							**0.08**															
6cr.20261.73	Cumberland	73	SR 3630	FROM SR 3628 TO CUL DE SAC	1	NO	0.05	21														
TOTAL FOR MAP NO. 73							**0.05**															
6cr.20261.73	Cumberland	74	SR 4022	FROM SR 4020 TO DEAD END	4	NO	0.08	26														
TOTAL FOR MAP NO. 74							**0.08**															
6cr.20261.73	Cumberland	75	SR 4021	FROM SR 4020 TO CUL DE SAC	4	NO	0.07	26														
TOTAL FOR MAP NO. 75							**0.07**															
6cr.20261.73	Cumberland	76	SR 4020	FROM SR 3367 TO SR 4024	4	NO	0.54	26														
TOTAL FOR MAP NO. 76							**0.54**															
TOTAL FOR PROJ NO. 6cr.20261.73							**28.14**		**1,406**	**220**	**310**	**13**	**34**	**110**	**330**	**1,100**	**11**	**7**	**11**	**10,880**	**1,100**	
6cr.20431.73	Harnett	77	SR 1120	FROM NC 87 TO SR 1121	6	NO	3.68	25.5	368	30	60	2	9	20.00	60.00	200.00	2.00	2.00	2.00	1,340.00	200.00	
TOTAL FOR MAP NO. 77							**3.68**		**368**	**30**	**60**	**2**	**9**	**20.00**	**60.00**	**200.00**	**2.00**	**2.00**	**2.00**	**1,340.00**	**200.00**	
6cr.20431.73	Harnett	78	SR 1116	FROM SR 1117 TO NC 27	6	NO	3.15	23	315	20	50	2	8									
TOTAL FOR MAP NO. 78							**3.15**		**315**	**20**	**50**	**2**	**8**									
6cr.20431.73	Harnett	79	SR 1703	FROM SR 1725 TO NC 27	6	NO	4.8	23	480	40	80	3	12									
TOTAL FOR MAP NO. 79							**4.8**		**480**	**40**	**80**	**3**	**12**									
6cr.20431.73	Harnett	80	SR 1554-A	FROM NC 27 TO SR 1558	6	NO	1.19	22	119	10	20	1	3									
TOTAL FOR MAP NO. 80							**1.19**		**119**	**10**	**20**	**1**	**3**									
6cr.20431.73	Harnett	81	SR 1554-B	FROM SR 1558 TO SR 1553	16	NO	2.36	22	236	20	40	2	6									
TOTAL FOR MAP NO. 81							**2.36**		**236**	**20**	**40**	**2**	**6**									
6cr.20431.73	Harnett	82	SR 1720	FROM SR 1725 TO SR 1703	6	NO	0.97	22.5	97	10	20	1	2									
TOTAL FOR MAP NO. 82							**0.97**		**97**	**10**	**20**	**1**	**2**									
6cr.20431.73	Harnett	83	SR 1725-A	FROM SR 1703 TO SR 1719	6	NO	1.48	23.5	148	20	30	1	4									
TOTAL FOR MAP NO. 83							**1.48**		**148**	**20**	**30**	**1**	**4**									
6cr.20431.73	Harnett	84	SR 1725-B	FROM SR 1719 TO W. BROAD ST	6	NO	0.87	24	87	10	20	1	2									
TOTAL FOR MAP NO. 84							**0.87**		**87**	**10**	**20**	**1**	**2**									
6cr.20431.73	Harnett	85	SR 1790	FROM SR 1780 TO US 421	15	NO	2.32	23	232	20	40	2	6									
TOTAL FOR MAP NO. 85							**2.32**		**232**	**20**	**40**	**2**	**6**									
6cr.20431.73	Harnett	86	SR 1808-A	FROM SR 1709 TO COOPER ST	6	NO	1.73	21	255	20	40	2	4	10.00	30.00	100.00	1.00	1.00	1.00	500.00	100.00	
		"	"	FROM SR 1709 TO COOPER ST	6	NO	0.82	23														
TOTAL FOR MAP NO. 86							**2.55**		**255**	**20**	**40**	**2**	**4**	**10.00**	**30.00**	**100.00**	**1.00**	**1.00**	**1.00**	**500.00**	**100.00**	
6cr.20431.73	Harnett	87	SR 1808-B	COOPER ST TO BEGIN TAPER	11	NO	0.43	31	58	10	10	0	1									
		"	"	FROM COOPER ST TO BEGING TAPER	6	NO	0.15	23														
TOTAL FOR MAP NO. 87							**0.58**		**58**	**10**	**10**	**0**	**1**									
6cr.20431.73	Harnett	88	SR 1808-C	BEGIN TAPER TO US 301	9	NO	0.23	48						10.00	30.00	100.00	1.00	1.00	1.00	150.00	100.00	
TOTAL FOR MAP NO. 88							**0.23**							**10.00**	**30.00**	**100.00**	**1.00**	**1.00**	**1.00**	**150.00**	**100.00**	
TOTAL FOR PROJ NO. 6cr.20431.73							**24.18**		**2,395**	**210**	**410**	**17**	**57**	**40.00**	**120.00**	**400.00**	**4.00**	**4.00**	**4.00**	**1,990.00**	**400.00**	
GRAND TOTAL							**81.41**		**6,460**	**640**	**1,150**	**46**	**154**	**190.00**	**570.00**	**1,900.00**	**19.00**	**15.00**	**19.00**	**17,145.00**	**1,900.00**	**1.00**

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4685000000-E 4" X 90 M WHITE THERMO LF	4685000000-E 4" X 90 M YELLOW THERMO LF	4686000000-E 4" X 120 M YELLOW THERMO LF	4686000000-E 4" X 120 M WHITE THERMO LF	4695000000-E 8" X 90 M WHITE THERMO LF	4697000000-E 8" X 120 M WHITE THERMO LF	4697000000-E 8" X 120 M YELLOW THERMO LF	4705000000-E 16" X 120 M WHITE THERMO LF	4710000000-E 24" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO HIGH VISIBILIY X-WALKS LF	4721000000-E THERMO RXR 120 M EA	THERMO MSG SCHOOL 120 M EA	THERMO MSG ONLY 120 M EA	THERMO MSG STOP 120 M EA	THERMO MSG AHEAD 120 M EA
6cr.10261.73	Cumberland	1	NC 82	FROM US 301 TO HARNETT CO.	0.71	20.5															
		"	"	FROM US 301 TO HARNETT COUNTY	2.45	23	34,000		28,900					100	60		4				
TOTAL FOR MAP NO. 1					**3.16**		**34,000**		**28,900**					**100**	**60**		**4**				
6cr.10261.73	Cumberland	2	US 401-A	FROM PVMT JT @ FARMERS RD TO END C&G	2.39	64.5	900	600	26,900	11,110	1,150	300	420		1,400			48	12		
TOTAL FOR MAP NO. 2					**2.39**		**900**	**600**	**26,900**	**11,110**	**1,150**	**300**	**420**		**1,400**			**48**	**12**		
6cr.10261.73	Cumberland	3	US 401-B	END OF C&G TO PVMT JT AT DUSTY LANE	3.07	30	34,000		34,350	525			1,800		240			12			
TOTAL FOR MAP NO. 3					**3.07**		**34,000**		**34,350**	**525**			**1,800**		**240**			**12**			
TOTAL FOR PROJ NO. 6cr.10261.73					**8.62**		**68,900**	**600**	**90,150**	**11,635**	**1,150**	**300**	**2,220**	**100**	**1,700**		**4**	**60**	**12**		
							69,500		**102,935**			**2,620**							**76**		
6cr.10431.73	Harnett	4	NC 24	FROM MOORE CO TO PVMT JT AT NC 87	8.39	25	90,000		87,725	1,360			2,800								
TOTAL FOR MAP NO. 4					**8.39**		**90,000**		**87,725**	**1,360**			**2,800**								
6cr.10431.73	Harnett	5	NC 27-A	FROM NC 24 TO PVMT JT @ NC 87	1.98	28	22,000		22,150	300			350		220			12			
TOTAL FOR MAP NO. 5					**1.98**		**22,000**		**22,150**	**300**			**350**		**220**			**12**			
6cr.10431.73	Harnett	6	NC 27-B	FROM SR 1117 TO PVMT JT @ SR 1253	5.12	25	55,000		46,750												
TOTAL FOR MAP NO. 6					**5.12**		**55,000**		**46,750**												
6cr.10431.73	Harnett	7	NC 55-A	FROM PVMT JT @ NC 210 TO END C&G	0.11	44			1,750												
TOTAL FOR MAP NO. 7					**0.11**				**1,750**												
6cr.10431.73	Harnett	8	NC 55-B	FROM END C&G TO PVMT JT	0.42	39	4,600		5,950	675			645								
TOTAL FOR MAP NO. 8					**0.42**		**4,600**		**5,950**	**675**			**645**								
6cr.10431.73	Harnett	9	US 301-A	FROM PVMT JT @ JOHNSTON CO TO W. GRANVILLE ST	4.13	25	46,000		42,400	745		1,155			20						
TOTAL FOR MAP NO. 9					**4.13**		**46,000**		**42,400**	**745**		**1,155**			**20**						
6cr.10431.73	Harnett	10	US 301-B	FROM BEGIN 2-LANE SECT TO SR 1896	0.32	25	3,400		3,400												
TOTAL FOR MAP NO. 10					**0.32**		**3,400**		**3,400**												
TOTAL FOR PROJ NO. 6cr.10431.73					**20.47**		**221,000**		**210,125**	**3,080**		**1,155**	**3,795**		**240**			**12**			
							221,000		**213,205**			**4,950**							**12**		
6cr.20261.73	Cumberland	11	SR 2563	FROM SR 2562 TO DEAD END	0.35	21.5															
TOTAL FOR MAP NO. 11					**0.35**																
6cr.20261.73	Cumberland	12	SR 2562	FROM US 401 RO DEAD END	0.5	20.5															
TOTAL FOR MAP NO. 12					**0.5**																
6cr.20261.73	Cumberland	13	SR 2586	FROM DEAD END TO DEAD END	0.58	21															
TOTAL FOR MAP NO. 13					**0.58**																
6cr.20261.73	Cumberland	14	SR 4102	FROM SR 2586 TO CUL DE SAC	0.07	26															
TOTAL FOR MAP NO. 14					**0.07**																
6cr.20261.73	Cumberland	15	SR 2584	FROM SR 2586 TO SR 2586	0.39	26															
TOTAL FOR MAP NO. 15					**0.39**																
6cr.20261.73	Cumberland	16	SR 2585	FROM US 401 TO SR 2584	0.28	21															
TOTAL FOR MAP NO. 16					**0.28**																
6cr.20261.73	Cumberland	17	SR 2555	FROM SR 2553 TO CUL DE SAC	0.07	21															
TOTAL FOR MAP NO. 17					**0.07**																
6cr.20261.73	Cumberland	18	SR 2556	FROM SR 2553 TO CUL DE SAC	0.05	20															
TOTAL FOR MAP NO. 18					**0.05**																
6cr.20261.73	Cumberland	19	SR 2577	FROM SR 2553 TO PVMT JT @ WEDGED ASPHALT	0.05	20															
TOTAL FOR MAP NO. 19					**0.05**																
6cr.20261.73	Cumberland	20	SR 2553	FROM PVMT JT @ SR 2577 TO PVMT JT @ WEDGED ASPHALT	0.12	20															
TOTAL FOR MAP NO. 20					**0.12**																
6cr.20261.73	Cumberland	21	SR 2554	FROM SR 2553 TO WEDGED ASPHALT	0.49	20															
TOTAL FOR MAP NO. 21					**0.49**																
6cr.20261.73	Cumberland	22	SR 2548	FROM SR 1606 TO SR 2549	0.24	27															
TOTAL FOR MAP NO. 22					**0.24**																
6cr.20261.73	Cumberland	23	SR 4100	FROM SR 2599 TO CUL DE SAC	0.14	27															
TOTAL FOR MAP NO. 23					**0.14**																
6cr.20261.73	Cumberland	24	SR 4101	FROM SR 4100 TO CUL DE SAC	0.13	27															
TOTAL FOR MAP NO. 24					**0.13**																
6cr.20261.73	Cumberland	25	SR 2523	FROM US 401 TO CUL DE SAC	0.59	23.5															
TOTAL FOR MAP NO. 25					**0.59**																
6cr.20261.73	Cumberland	26	SR 2524	FROM SR 2523 TO DEAD END	0.27	24															
TOTAL FOR MAP NO. 26					**0.27**																
6cr.20261.73	Cumberland	27	SR 2550	FROM SR 2523 TO DEAD END	0.12	24															
TOTAL FOR MAP NO. 27					**0.12**																
6cr.20261.73	Cumberland	28	SR 2551	FROM SR 2523 TO DEAD END	0.07	24															
TOTAL FOR MAP NO. 28					**0.07**																
6cr.20261.73	Cumberland	29	SR 2552	FROM SR 2523 TO CUL DE SAC	0.06	35															
TOTAL FOR MAP NO. 29					**0.06**																
6cr.20261.73	Cumberland	30	SR 2536	FROM SR 1606 TO DEAD END	0.93	27															
TOTAL FOR MAP NO. 30					**0.93**																
6cr.20261.73	Cumberland	31	SR 2566	FROM SR 1606 TO DEAD END	0.32	26															

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M WHITE THERMO LF	8" X 120 M WHITE THERMO LF	8" X 120 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO HIGH VISIBILIY X-WALKS LF	THERMO RXR 120 M EA	THERMO MSG SCHOOL 120 M EA	THERMO MSG ONLY 120 M EA	THERMO MSG STOP 120 M EA	THERMO MSG AHEAD 120 M EA
TOTAL FOR MAP NO. 31					**0.32**																
6cr.20261.73	Cumberland	32	SR 2572	FROM SR 2566 TO DEAD END	0.24	26															
TOTAL FOR MAP NO. 32					**0.24**																
6cr.20261.73	Cumberland	33	SR 2573	FROM SR 2572 TO CUL DE SAC	0.51	26															
TOTAL FOR MAP NO. 33					**0.51**																
6cr.20261.73	Cumberland	34	SR 2590	FROM CUL DE SAC TO CUL DE SAC	0.25	26															
TOTAL FOR MAP NO. 34					**0.25**																
6cr.20261.73	Cumberland	35	SR 2591	FROM SR 2573 TO CUL DE SAC	0.11	26															
TOTAL FOR MAP NO. 35					**0.11**																
6cr.20261.73	Cumberland	36	SR 1606	FROM SR 1607 TO SR 1605	1.75	4															
TOTAL FOR MAP NO. 36					**1.75**																
6cr.20261.73	Cumberland	37	SR 2599	FROM SR 1606 TO SR 2549	0.29	27															
TOTAL FOR MAP NO. 37					**0.29**																
6cr.20261.73	Cumberland	38	SR 2549	FROM SR 2599 TO SR 2536	0.22	27															
TOTAL FOR MAP NO. 38					**0.22**																
6cr.20261.73	Cumberland	39	SR 1770	FROM US 401 TO SR 1763	0.48	20															
TOTAL FOR MAP NO. 39					**0.48**																
6cr.20261.73	Cumberland	40	SR 1785	FROM SR 1786 TO SR 1770	0.07	20															
TOTAL FOR MAP NO. 40					**0.07**																
6cr.20261.73	Cumberland	41	SR 1786	FROM SR 1763 TOSR 1785	0.13	20															
TOTAL FOR MAP NO. 41					**0.13**																
6cr.20261.73	Cumberland	42	SR 1763	FROM SR 1770 TO DEAD END	0.13	20															
TOTAL FOR MAP NO. 42					**0.13**																
6cr.20261.73	Cumberland	43	SR 1611	FROM US 401 TO SR 1600	2.48	24	18,500		25,000	2,075		125	750		245			12	16		
TOTAL FOR MAP NO. 43					**2.48**		**18,500**		**25,000**	**2,075**		**125**	**750**		**245**			**12**	**16**		
6cr.20261.73	Cumberland	44	SR 1600	FROM US 401 TO FAYETTEVILE CL	3.67	26	36,800		39,690	3,500		150	1,050		450				16		
TOTAL FOR MAP NO. 44					**3.67**		**36,800**		**39,690**	**3,500**		**150**	**1,050**		**450**				**16**		
6cr.20261.73	Cumberland	45	SR 1451	FROM NC 87 TO NC 210	2.43	25	26,000		23,600	525	100		525		75						
TOTAL FOR MAP NO. 45					**2.43**		**26,000**		**23,600**	**525**	**100**		**525**		**75**						
6cr.20261.73	Cumberland	46	SR 4202	FROM NC 87 TO END STATE MAINT.	0.25	39			6,700	1,700			210		60						
TOTAL FOR MAP NO. 46					**0.25**				**6,700**	**1,700**			**210**		**60**						
6cr.20261.73	Cumberland	47	SR 3578	FROM SR 1404 TO SR 1404	0.46	32	1,350			600	250				80	150			4		
TOTAL FOR MAP NO. 47					**0.46**		**1,350**			**600**	**250**				**80**	**150**			**4**		
6cr.20261.73	Cumberland	48	SR 1404	FROM PVMT JT @ SR 3578 TO NC 87	0.32	44			3,950	1,700		25	200		260						
		"	"	FROM PVMT JT @ SR 3578 TO NC 87	0.31	26															
TOTAL FOR MAP NO. 48					**0.63**				**3,950**	**1,700**		**25**	**200**		**260**						
6cr.20261.73	Cumberland	49	SR 3637	FROM SR 1311 TO CUL DE SAC	0.04	22															
TOTAL FOR MAP NO. 49					**0.04**																
6cr.20261.73	Cumberland	50	SR 1311	FROM SR 1308 TO DEAD END	0.35	22															
TOTAL FOR MAP NO. 50					**0.35**																
6cr.20261.73	Cumberland	51	SR 3672	FROM SR 1311 TO SR 1311	0.24	22															
TOTAL FOR MAP NO. 51					**0.24**																
6cr.20261.73	Cumberland	52	SR 1308	FROM SR 1132 TO SR 3003	0.1	46															
		"	"	FROM SR 1132 TO SR 3003	0.23	23															
TOTAL FOR MAP NO. 52					**0.33**																
6cr.20261.73	Cumberland	53	SR 2234	FROM SR 2235 TO NC 87	0.71	4															
TOTAL FOR MAP NO. 53					**0.71**																
6cr.20261.73	Cumberland	54	SR 3926	FROM SR 3925 TO SR 3923	0.28	18															
TOTAL FOR MAP NO. 54					**0.28**																
6cr.20261.73	Cumberland	55	SR 3923	FROM SR 2252 TO END STATE MAINT	0.45	21.5															
TOTAL FOR MAP NO. 55					**0.45**																
6cr.20261.73	Cumberland	56	SR 3924	FROM SR 3925 TO SR 3923	0.09	22															
TOTAL FOR MAP NO. 56					**0.09**																
6cr.20261.73	Cumberland	57	SR 3925	FROM SR 2252 TO END STATE MAINT	0.15	22															
TOTAL FOR MAP NO. 57					**0.15**																
6cr.20261.73	Cumberland	58	SR 2313	FROM SR 2239 TO END STATE MAINT	0.29	20.5															
TOTAL FOR MAP NO. 58					**0.29**																
6cr.20261.73	Cumberland	59	SR 3629	FROM CUL DE SAC TO CUL DE SAC	0.44	20															
TOTAL FOR MAP NO. 59					**0.44**																
6cr.20261.73	Cumberland	60	SR 3631	FROM SR 3628 TO SR 3629	0.2	21															
TOTAL FOR MAP NO. 60					**0.2**																
6cr.20261.73	Cumberland	61	SR 3714	FROM SR 3628 TO DEAD END	0.09	24															
TOTAL FOR MAP NO. 61					**0.09**																
6cr.20261.73	Cumberland	62	SR 3628	FROM SR 1345 TO CUL DE SAC	0.38	21															
		"	"	FROM SR 1345 TO CUL DE SAC	0.36	27															
TOTAL FOR MAP NO. 62					**0.74**																
6cr.20261.73	Cumberland	63	SR 4023	FROM SR 4020 TO CUL DE SAC	0.04	26															
TOTAL FOR MAP NO. 63					**0.04**																
6cr.20261.73	Cumberland	64	SR 4024	FROM SR 4020 TO CUL DE SAC	0.46	26															
TOTAL FOR MAP NO. 64					**0.46**																
6cr.20261.73	Cumberland	65	SR 4025	FROM SR 4020 TO CUL DE SAC	0.1	26															
TOTAL FOR MAP NO. 65					**0.1**																
6cr.20261.73	Cumberland	66	SR 3367	FROM SR 1108 TO DEAD END	0.78	20															
TOTAL FOR MAP NO. 66					**0.78**																
6cr.20261.73	Cumberland	67	SR 3678	FROM SR 3628 TO CUL DE SAC	0.06	26															
TOTAL FOR MAP NO. 67					**0.06**																
6cr.20261.73	Cumberland	68	SR 3639	FROM SR 1108 TO SR 3640	0.08	20															

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M WHITE THERMO LF	8" X 120 M WHITE THERMO LF	8" X 120 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO HIGH VISIBILIY X-WALKS LF	THERMO RXR 120 M EA	THERMO MSG SCHOOL 120 M EA	THERMO MSG ONLY 120 M EA	THERMO MSG STOP 120 M EA	THERMO MSG AHEAD 120 M EA
TOTAL FOR MAP NO. 68					**0.08**																
6cr.20261.73	Cumberland	69	SR 3640	FROM SR 3639 TO SR 3639	0.97	27															
TOTAL FOR MAP NO. 69					**0.97**																
6cr.20261.73	Cumberland	70	SR 3641	FROM SR 3640 TO SR 3640	0.28	27															
TOTAL FOR MAP NO. 70					**0.28**																
6cr.20261.73	Cumberland	71	SR 3642	FROM SR 3640 TO SR 3640	0.23	27															
TOTAL FOR MAP NO. 71					**0.23**																
6cr.20261.73	Cumberland	72	SR 3643	FROM SR 3640 TO SR 1345	0.08	27															
TOTAL FOR MAP NO. 72					**0.08**																
6cr.20261.73	Cumberland	73	SR 3630	FROM SR 3628 TO CUL DE SAC	0.05	21															
TOTAL FOR MAP NO. 73					**0.05**																
6cr.20261.73	Cumberland	74	SR 4022	FROM SR 4020 TO DEAD END	0.08	26															
TOTAL FOR MAP NO. 74					**0.08**																
6cr.20261.73	Cumberland	75	SR 4021	FROM SR 4020 TO CUL DE SAC	0.07	26															
TOTAL FOR MAP NO. 75					**0.07**																
6cr.20261.73	Cumberland	76	SR 4020	FROM SR 3367 TO SR 4024	0.54	26															
TOTAL FOR MAP NO. 76					**0.54**																
TOTAL FOR PROJ NO. 6cr.20261.73					**28.14**		**82,650**		**98,940**	**10,100**	**350**	**300**	**2,735**		**1,170**	**150**		**12**	**36**		
							82,650		**109,390**			**3,035**			**1,320**			**48**			
6cr.20431.73	Harnett	77	SR 1120	FROM NC 87 TO SR 1121	3.68	25.5	40,000		34,000	75					60						
TOTAL FOR MAP NO. 77					**3.68**		**40,000**		**34,000**	**75**					**60**						
6cr.20431.73	Harnett	78	SR 1116	FROM SR 1117 TO NC 27	3.15	23															
TOTAL FOR MAP NO. 78					**3.15**																
6cr.20431.73	Harnett	79	SR 1703	FROM SR 1725 TO NC 27	4.8	23														4	5
TOTAL FOR MAP NO. 79					**4.8**															**4**	**5**
6cr.20431.73	Harnett	80	SR 1554-A	FROM NC 27 TO SR 1558	1.19	22															
TOTAL FOR MAP NO. 80					**1.19**																
6cr.20431.73	Harnett	81	SR 1554-B	FROM SR 1558 TO SR 1553	2.36	22															
TOTAL FOR MAP NO. 81					**2.36**																
6cr.20431.73	Harnett	82	SR 1720	FROM SR 1725 TO SR 1703	0.97	22.5															
TOTAL FOR MAP NO. 82					**0.97**																
6cr.20431.73	Harnett	83	SR 1725-A	FROM SR 1703 TO SR 1719	1.48	23.5															
TOTAL FOR MAP NO. 83					**1.48**																
6cr.20431.73	Harnett	84	SR 1725-B	FROM SR 1719 TO W. BROAD ST	0.87	24															
TOTAL FOR MAP NO. 84					**0.87**																
6cr.20431.73	Harnett	85	SR 1790	FROM SR 1780 TO US 421	2.32	23															
TOTAL FOR MAP NO. 85					**2.32**																
6cr.20431.73	Harnett	86	SR 1808-A	FROM SR 1709 TO COOPER ST	1.73	21	6,000		5,100												
		"	"	FROM SR 1709 TO COOPER ST	0.82	23															
TOTAL FOR MAP NO. 86					**2.55**		**6,000**		**5,100**												
6cr.20431.73	Harnett	87	SR 1808-B	COOPER ST TO BEGIN TAPER	0.43	31	6,000		6,000												
		"	"	FROM COOPER ST TO BEGING TAPER	0.15	23															
TOTAL FOR MAP NO. 87					**0.58**		**6,000**		**6,000**												
6cr.20431.73	Harnett	88	SR 1808-C	BEGIN TAPER TO US 301	0.23	48	400		2,500	150		100			25						
TOTAL FOR MAP NO. 88					**0.23**		**400**		**2,500**	**150**		**100**			**25**						
TOTAL FOR PROJ NO. 6cr.20431.73					**24.18**		**52,400**		**47,600**	**225**		**100**			**85**					**4**	**5**
							52,400		**47,825**			**100**						**9**			
GRAND TOTAL					**81.41**		**424,950**	**600**	**446,815**	**25,040**	**1,500**	**1,855**	**8,750**	**100**	**3,195**	**150**	**4**	**84**	**48**	**4**	**5**
							425,550		**473,355**			**10,705**			**3,345**			**145**			

PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.10261.73, 6cr.10431.73 6cr.20261.73, ETC.	41	

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4725000000-E THERMO LT ARROW 90 M EA	4725000000-E THERMO RT ARROW 90 M EA	4725000000-E THERMO STR ARROW 90 M EA	4725000000-E THERMO STR & LT ARROW 90 M EA	4725000000-E THERMO STR & RT ARROW 90 M EA	4810000000-E 4" WHITE PAINT LF	4810000000-E 4" YELLOW PAINT LF	4820000000-E 8" WHITE PAINT LF	4900000000-N YELLOW & YELLOW MARKERS EA	4900000000-N CRYSTAL & RED MARKERS EA
6cr.10261.73	Cumberland	1	NC 82	FROM US 301 TO HARNETT CO.	0.71	20.5										
		"	"	FROM US 301 TO HARNETT COUNTY	2.45	23									225	
TOTAL FOR MAP NO. 1					**3.16**										**225**	
6cr.10261.73	Cumberland	2	US 401-A	FROM PVMT JT @ FARMERS RD TO END C&G	2.39	64.5	80	15	25						425	265
TOTAL FOR MAP NO. 2					**2.39**		**80**	**15**	**25**						**425**	**265**
6cr.10261.73	Cumberland	3	US 401-B	END OF C&G TO PVMT JT AT DUSTY LANE	3.07	30	8	5							290	35
TOTAL FOR MAP NO. 3					**3.07**		**8**	**5**							**290**	**35**
TOTAL FOR PROJ NO. 6cr.10261.73					**8.62**		**88**	**20**	**25**						**940**	**300**
							133								**1,240**	
6cr.10431.73	Harnett	4	NC 24	FROM MOORE CO TO PVMT JT AT NC 87	8.39	25	14	5							725	75
TOTAL FOR MAP NO. 4					**8.39**		**14**	**5**							**725**	**75**
6cr.10431.73	Harnett	5	NC 27-A	FROM NC 24 TO PVMT JT @ NC 87	1.98	28	10	2							190	22
TOTAL FOR MAP NO. 5					**1.98**		**10**	**2**							**190**	**22**
6cr.10431.73	Harnett	6	NC 27-B	FROM SR 1117 TO PVMT JT @ SR 1253	5.12	25									350	
TOTAL FOR MAP NO. 6					**5.12**										**350**	
6cr.10431.73	Harnett	7	NC 55-A	FROM PVMT JT @ NC 210 TO END C&G	0.11	44	6								40	
TOTAL FOR MAP NO. 7					**0.11**		**6**								**40**	
6cr.10431.73	Harnett	8	NC 55-B	FROM END C&G TO PVMT JT	0.42	39	4	4							75	26
TOTAL FOR MAP NO. 8					**0.42**		**4**	**4**							**75**	**26**
6cr.10431.73	Harnett	9	US 301-A	FROM PVMT JT @ JOHNSTON CO TO W. GRANVILLE ST	4.13	25	4	3							335	47
TOTAL FOR MAP NO. 9					**4.13**		**4**	**3**							**335**	**47**
6cr.10431.73	Harnett	10	US 301-B	FROM BEGIN 2-LANE SECT TO SR 1896	0.32	25									25	
TOTAL FOR MAP NO. 10					**0.32**										**25**	
TOTAL FOR PROJ NO. 6cr.10431.73					**20.47**		**38**	**14**							**1,740**	**170**
							52								**1,910**	
6cr.20261.73	Cumberland	11	SR 2563	FROM SR 2562 TO DEAD END	0.35	21.5										
TOTAL FOR MAP NO. 11					**0.35**											
6cr.20261.73	Cumberland	12	SR 2562	FROM US 401 RO DEAD END	0.5	20.5										
TOTAL FOR MAP NO. 12					**0.5**											
6cr.20261.73	Cumberland	13	SR 2586	FROM DEAD END TO DEAD END	0.58	21										
TOTAL FOR MAP NO. 13					**0.58**											
6cr.20261.73	Cumberland	14	SR 4102	FROM SR 2586 TO CUL DE SAC	0.07	26										
TOTAL FOR MAP NO. 14					**0.07**											
6cr.20261.73	Cumberland	15	SR 2584	FROM SR 2586 TO SR 2586	0.39	26										
TOTAL FOR MAP NO. 15					**0.39**											
6cr.20261.73	Cumberland	16	SR 2585	FROM US 401 TO SR 2584	0.28	21										
TOTAL FOR MAP NO. 16					**0.28**											
6cr.20261.73	Cumberland	17	SR 2555	FROM SR 2553 TO CUL DE SAC	0.07	21										
TOTAL FOR MAP NO. 17					**0.07**											
6cr.20261.73	Cumberland	18	SR 2556	FROM SR 2553 TO CUL DE SAC	0.05	20										
TOTAL FOR MAP NO. 18					**0.05**											
6cr.20261.73	Cumberland	19	SR 2577	FROM SR 2553 TO PVMT JT @ WEDGED ASPHALT	0.05	20										
TOTAL FOR MAP NO. 19					**0.05**											
6cr.20261.73	Cumberland	20	SR 2553	FROM PVMT JT @ SR 2577 TO PVMT JT @ WEDGED ASPHALT	0.12	20										
TOTAL FOR MAP NO. 20					**0.12**											
6cr.20261.73	Cumberland	21	SR 2554	FROM SR 2553 TO WEDGED ASPHALT	0.49	20										
TOTAL FOR MAP NO. 21					**0.49**											
6cr.20261.73	Cumberland	22	SR 2548	FROM SR 1606 TO SR 2549	0.24	27										
TOTAL FOR MAP NO. 22					**0.24**											
6cr.20261.73	Cumberland	23	SR 4100	FROM SR 2599 TO CUL DE SAC	0.14	27										
TOTAL FOR MAP NO. 23					**0.14**											
6cr.20261.73	Cumberland	24	SR 4101	FROM SR 4100 TO CUL DE SAC	0.13	27										
TOTAL FOR MAP NO. 24					**0.13**											
6cr.20261.73	Cumberland	25	SR 2523	FROM US 401 TO CUL DE SAC	0.59	23.5										
TOTAL FOR MAP NO. 25					**0.59**											
6cr.20261.73	Cumberland	26	SR 2524	FROM SR 2523 TO DEAD END	0.27	24										
TOTAL FOR MAP NO. 26					**0.27**											
6cr.20261.73	Cumberland	27	SR 2550	FROM SR 2523 TO DEAD END	0.12	24										
TOTAL FOR MAP NO. 27					**0.12**											
6cr.20261.73	Cumberland	28	SR 2551	FROM SR 2523 TO DEAD END	0.07	24										
TOTAL FOR MAP NO. 28					**0.07**											
6cr.20261.73	Cumberland	29	SR 2552	FROM SR 2523 TO CUL DE SAC	0.06	35										
TOTAL FOR MAP NO. 29					**0.06**											
6cr.20261.73	Cumberland	30	SR 2536	FROM SR 1606 TO DEAD END	0.93	27										
TOTAL FOR MAP NO. 30					**0.93**											
6cr.20261.73	Cumberland	31	SR 2566	FROM SR 1606 TO DEAD END	0.32	26										

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" WHITE PAINT LF	YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA
TOTAL FOR MAP NO. 31					**0.32**											
6cr.20261.73	Cumberland	32	SR 2572	FROM SR 2566 TO DEAD END	0.24	26										
TOTAL FOR MAP NO. 32					**0.24**											
6cr.20261.73	Cumberland	33	SR 2573	FROM SR 2572 TO CUL DE SAC	0.51	26										
TOTAL FOR MAP NO. 33					**0.51**											
6cr.20261.73	Cumberland	34	SR 2590	FROM CUL DE SAC TO CUL DE SAC	0.25	26										
TOTAL FOR MAP NO. 34					**0.25**											
6cr.20261.73	Cumberland	35	SR 2591	FROM SR 2573 TO CUL DE SAC	0.11	26										
TOTAL FOR MAP NO. 35					**0.11**											
6cr.20261.73	Cumberland	36	SR 1606	FROM SR 1607 TO SR 1605	1.75	4						37,000	47,600		200	
TOTAL FOR MAP NO. 36					**1.75**							**37,000**	**47,600**		**200**	
6cr.20261.73	Cumberland	37	SR 2599	FROM SR 1606 TO SR 2549	0.29	27										
TOTAL FOR MAP NO. 37					**0.29**											
6cr.20261.73	Cumberland	38	SR 2549	FROM SR 2599 TO SR 2536	0.22	27										
TOTAL FOR MAP NO. 38					**0.22**											
6cr.20261.73	Cumberland	39	SR 1770	FROM US 401 TO SR 1763	0.48	20										
TOTAL FOR MAP NO. 39					**0.48**											
6cr.20261.73	Cumberland	40	SR 1785	FROM SR 1786 TO SR 1770	0.07	20										
TOTAL FOR MAP NO. 40					**0.07**											
6cr.20261.73	Cumberland	41	SR 1786	FROM SR 1763 TOSR 1785	0.13	20										
TOTAL FOR MAP NO. 41					**0.13**											
6cr.20261.73	Cumberland	42	SR 1763	FROM SR 1770 TO DEAD END	0.13	20										
TOTAL FOR MAP NO. 42					**0.13**											
6cr.20261.73	Cumberland	43	SR 1611	FROM US 401 TO SR 1600	2.48	24	45	15	6						240	125
TOTAL FOR MAP NO. 43					**2.48**		**45**	**15**	**6**						**240**	**125**
6cr.20261.73	Cumberland	44	SR 1600	FROM US 401 TO FAYETTEVILE CL	3.67	26	35	30	10	2	3				220	185
TOTAL FOR MAP NO. 44					**3.67**		**35**	**30**	**10**	**2**	**3**				**220**	**185**
6cr.20261.73	Cumberland	45	SR 1451	FROM NC 87 TO NC 210	2.43	25	4	4			1				195	30
TOTAL FOR MAP NO. 45					**2.43**		**4**	**4**			**1**				**195**	**30**
6cr.20261.73	Cumberland	46	SR 4202	FROM NC 87 TO END STATE MAINT.	0.25	39	11	5							90	70
TOTAL FOR MAP NO. 46					**0.25**		**11**	**5**							**90**	**70**
6cr.20261.73	Cumberland	47	SR 3578	FROM SR 1404 TO SR 1404	0.46	32	5		5	6		600		250		50
TOTAL FOR MAP NO. 47					**0.46**		**5**		**5**	**6**		**600**		**250**		**50**
6cr.20261.73	Cumberland	48	SR 1404	FROM PVMT JT @ SR 3578 TO NC 87	0.32	44	15		15		6	400			60	90
		"	"	FROM PVMT JT @ SR 3578 TO NC 87	0.31	26										
TOTAL FOR MAP NO. 48					**0.63**		**15**		**15**		**6**	**400**			**60**	**90**
6cr.20261.73	Cumberland	49	SR 3637	FROM SR 1311 TO CUL DE SAC	0.04	22										
TOTAL FOR MAP NO. 49					**0.04**											
6cr.20261.73	Cumberland	50	SR 1311	FROM SR 1308 TO DEAD END	0.35	22										
TOTAL FOR MAP NO. 50					**0.35**											
6cr.20261.73	Cumberland	51	SR 3672	FROM SR 1311 TO SR 1311	0.24	22										
TOTAL FOR MAP NO. 51					**0.24**											
6cr.20261.73	Cumberland	52	SR 1308	FROM SR 1132 TO SR 3003	0.1	46										
		"	"	FROM SR 1132 TO SR 3003	0.23	23										
TOTAL FOR MAP NO. 52					**0.33**											
6cr.20261.73	Cumberland	53	SR 2234	FROM SR 2235 TO NC 87	0.71	4						16,400	13,940		55	
TOTAL FOR MAP NO. 53					**0.71**							**16,400**	**13,940**		**55**	
6cr.20261.73	Cumberland	54	SR 3926	FROM SR 3925 TO SR 3923	0.28	18										
TOTAL FOR MAP NO. 54					**0.28**											
6cr.20261.73	Cumberland	55	SR 3923	FROM SR 2252 TO END STATE MAINT	0.45	21.5										
TOTAL FOR MAP NO. 55					**0.45**											
6cr.20261.73	Cumberland	56	SR 3924	FROM SR 3925 TO SR 3923	0.09	22										
TOTAL FOR MAP NO. 56					**0.09**											
6cr.20261.73	Cumberland	57	SR 3925	FROM SR 2252 TO END STATE MAINT	0.15	22										
TOTAL FOR MAP NO. 57					**0.15**											
6cr.20261.73	Cumberland	58	SR 2313	FROM SR 2239 TO END STATE MAINT	0.29	20.5										
TOTAL FOR MAP NO. 58					**0.29**											
6cr.20261.73	Cumberland	59	SR 3629	FROM CUL DE SAC TO CUL DE SAC	0.44	20										
TOTAL FOR MAP NO. 59					**0.44**											
6cr.20261.73	Cumberland	60	SR 3631	FROM SR 3628 TO SR 3629	0.2	21										
TOTAL FOR MAP NO. 60					**0.2**											
6cr.20261.73	Cumberland	61	SR 3714	FROM SR 3628 TO DEAD END	0.09	24										
TOTAL FOR MAP NO. 61					**0.09**											
6cr.20261.73	Cumberland	62	SR 3628	FROM SR 1345 TO CUL DE SAC	0.38	21										
		"	"	FROM SR 1345 TO CUL DE SAC	0.36	27										
TOTAL FOR MAP NO. 62					**0.74**											
6cr.20261.73	Cumberland	63	SR 4023	FROM SR 4020 TO CUL DE SAC	0.04	26										
TOTAL FOR MAP NO. 63					**0.04**											
6cr.20261.73	Cumberland	64	SR 4024	FROM SR 4020 TO CUL DE SAC	0.46	26										
TOTAL FOR MAP NO. 64					**0.46**											
6cr.20261.73	Cumberland	65	SR 4025	FROM SR 4020 TO CUL DE SAC	0.1	26										
TOTAL FOR MAP NO. 65					**0.1**											
6cr.20261.73	Cumberland	66	SR 3367	FROM SR 1108 TO DEAD END	0.78	20										
TOTAL FOR MAP NO. 66					**0.78**											
6cr.20261.73	Cumberland	67	SR 3678	FROM SR 3628 TO CUL DE SAC	0.06	26										
TOTAL FOR MAP NO. 67					**0.06**											
6cr.20261.73	Cumberland	68	SR 3639	FROM SR 1108 TO SR 3640	0.08	20										

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" WHITE PAINT LF	YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA
TOTAL FOR MAP NO. 68					**0.08**											
6cr.20261.73	Cumberland	69	SR 3640	FROM SR 3639 TO SR 3639	0.97	27										
TOTAL FOR MAP NO. 69					**0.97**											
6cr.20261.73	Cumberland	70	SR 3641	FROM SR 3640 TO SR 3640	0.28	27										
TOTAL FOR MAP NO. 70					**0.28**											
6cr.20261.73	Cumberland	71	SR 3642	FROM SR 3640 TO SR 3640	0.23	27										
TOTAL FOR MAP NO. 71					**0.23**											
6cr.20261.73	Cumberland	72	SR 3643	FROM SR 3640 TO SR 1345	0.08	27										
TOTAL FOR MAP NO. 72					**0.08**											
6cr.20261.73	Cumberland	73	SR 3630	FROM SR 3628 TO CUL DE SAC	0.05	21										
TOTAL FOR MAP NO. 73					**0.05**											
6cr.20261.73	Cumberland	74	SR 4022	FROM SR 4020 TO DEAD END	0.08	26										
TOTAL FOR MAP NO. 74					**0.08**											
6cr.20261.73	Cumberland	75	SR 4021	FROM SR 4020 TO CUL DE SAC	0.07	26										
TOTAL FOR MAP NO. 75					**0.07**											
6cr.20261.73	Cumberland	76	SR 4020	FROM SR 3367 TO SR 4024	0.54	26										
TOTAL FOR MAP NO. 76					**0.54**											
TOTAL FOR PROJ NO. 6cr.20261.73					**28.14**		**115**	**54**	**36**	**8**	**10**	**54,400**	**61,540**	**250**	**1,060**	**550**
									223				**115,940**			**1,610**
6cr.20431.73	Harnett	77	SR 1120	FROM NC 87 TO SR 1121	3.68	25.5	2		1	1					250	15
TOTAL FOR MAP NO. 77					**3.68**		**2**		**1**	**1**					**250**	**15**
6cr.20431.73	Harnett	78	SR 1116	FROM SR 1117 TO NC 27	3.15	23						68,000	57,800		225	
TOTAL FOR MAP NO. 78					**3.15**							**68,000**	**57,800**		**225**	
6cr.20431.73	Harnett	79	SR 1703	FROM SR 1725 TO NC 27	4.8	23						104,000	88,400		370	
TOTAL FOR MAP NO. 79					**4.8**							**104,000**	**88,400**		**370**	
6cr.20431.73	Harnett	80	SR 1554-A	FROM NC 27 TO SR 1558	1.19	22						26,000	22,100			
TOTAL FOR MAP NO. 80					**1.19**							**26,000**	**22,100**			
6cr.20431.73	Harnett	81	SR 1554-B	FROM SR 1558 TO SR 1553	2.36	22						50,000	42,500			
TOTAL FOR MAP NO. 81					**2.36**							**50,000**	**42,500**			
6cr.20431.73	Harnett	82	SR 1720	FROM SR 1725 TO SR 1703	0.97	22.5						22,000	18,700			
TOTAL FOR MAP NO. 82					**0.97**							**22,000**	**18,700**			
6cr.20431.73	Harnett	83	SR 1725-A	FROM SR 1703 TO SR 1719	1.48	23.5						32,000	27,200			
TOTAL FOR MAP NO. 83					**1.48**							**32,000**	**27,200**			
6cr.20431.73	Harnett	84	SR 1725-B	FROM SR 1719 TO W. BROAD ST	0.87	24						18,250	15,300		60	8
TOTAL FOR MAP NO. 84					**0.87**							**18,250**	**15,300**		**60**	**8**
6cr.20431.73	Harnett	85	SR 1790	FROM SR 1780 TO US 421	2.32	23						48,000	43,200			
TOTAL FOR MAP NO. 85					**2.32**							**48,000**	**43,200**			
6cr.20431.73	Harnett	86	SR 1808-A	FROM SR 1709 TO COOPER ST	1.73	21						44,000	37,400		40	
		"	"	FROM SR 1709 TO COOPER ST	0.82	23										
TOTAL FOR MAP NO. 86					**2.55**							**44,000**	**37,400**		**40**	
6cr.20431.73	Harnett	87	SR 1808-B	COOPER ST TO BEGIN TAPER	0.43	31									45	
		"	"	FROM COOPER ST TO BEGING TAPER	0.15	23										
TOTAL FOR MAP NO. 87					**0.58**										**45**	
6cr.20431.73	Harnett	88	SR 1808-C	BEGIN TAPER TO US 301	0.23	48		2		2					20	8
TOTAL FOR MAP NO. 88					**0.23**			**2**		**2**					**20**	**8**
TOTAL FOR PROJ NO. 6cr.20431.73					**24.18**		**2**	**2**	**1**	**3**		**412,250**	**352,600**		**1,010**	**31**
									8				**764,850**			**1,041**
GRAND TOTAL					**81.41**		**243**	**90**	**62**	**11**	**10**	**466,650**	**414,140**	**250**	**4,750**	**1,051**
									416				**880,790**			**5,801**

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

ENGLISH DETAIL DRAWING FOR

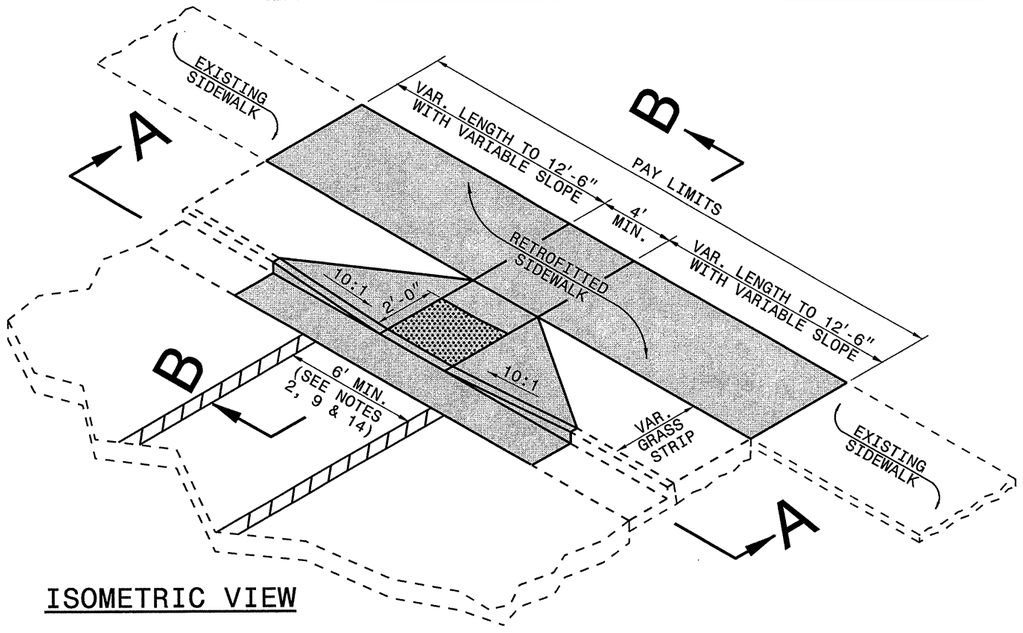
CURB RAMP

EXISTING CURB AND GUTTER

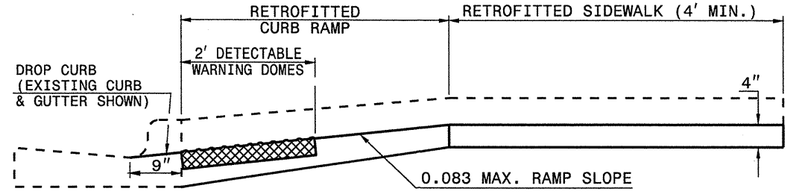
SHEET 1 OF 5

848D06

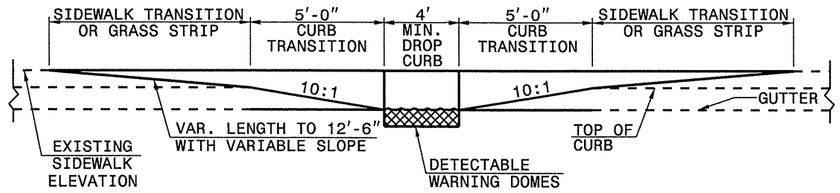
CURB RAMP AND EXISTING SIDEWALK WITH GRASS STRIP



ISOMETRIC VIEW

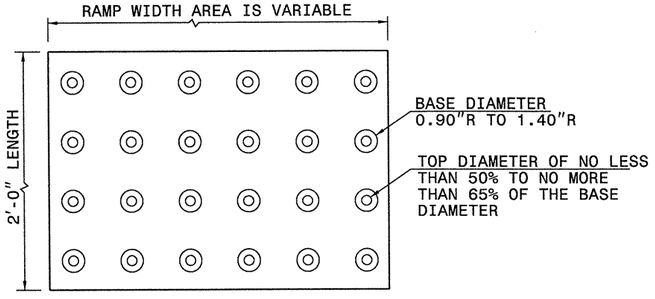


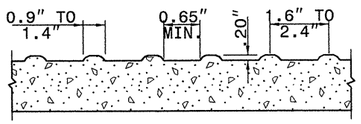
SECTION B-B



SECTION A-A

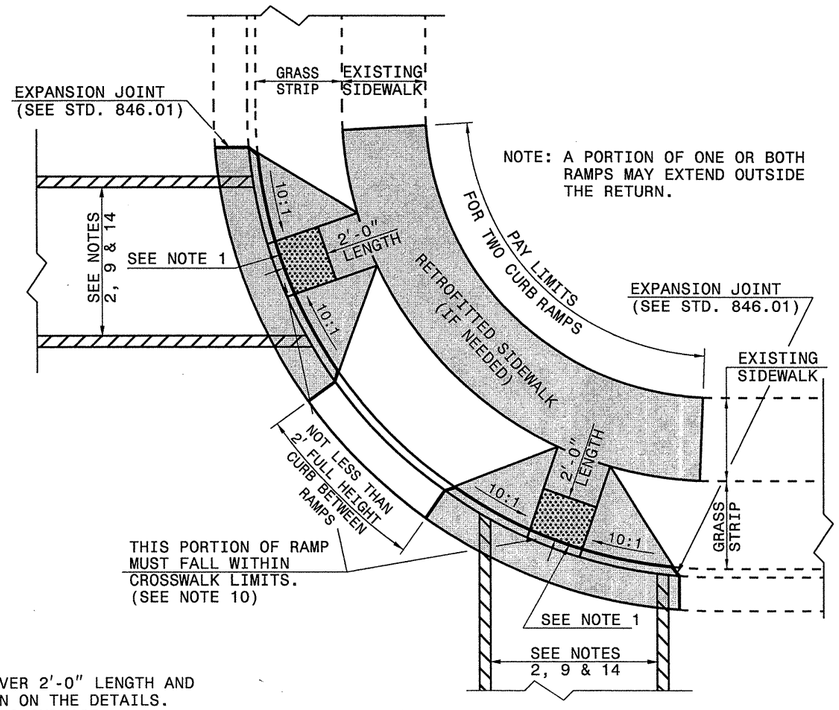
PAY LIMITS OF RETROFIT CURB RAMP





DETECTABLE WARNING DOMES

NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

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

ENGLISH DETAIL DRAWING FOR

CURB RAMP

EXISTING CURB AND GUTTER

SHEET 1 OF 5

848D06

6CR.10261.73 SHEET 45

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

ENGLISH DETAIL DRAWING FOR

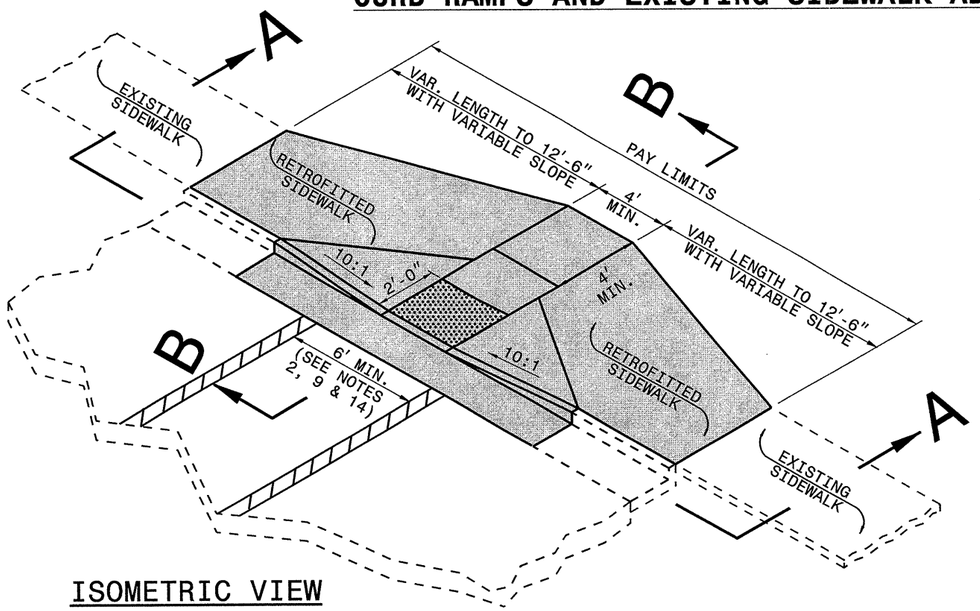
CURB RAMP

EXISTING CURB AND GUTTER

SHEET 2 OF 5

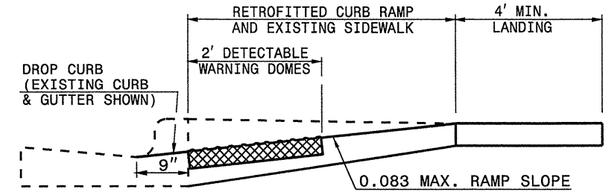
848D06

CURB RAMPS AND EXISTING SIDEWALK ADJACENT TO CURB

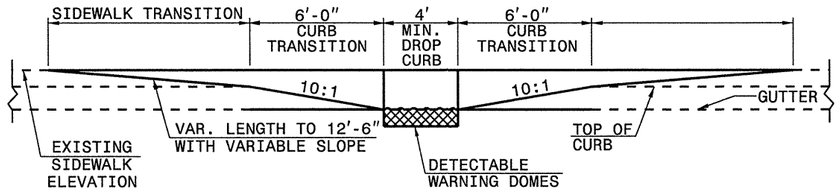


ISOMETRIC VIEW

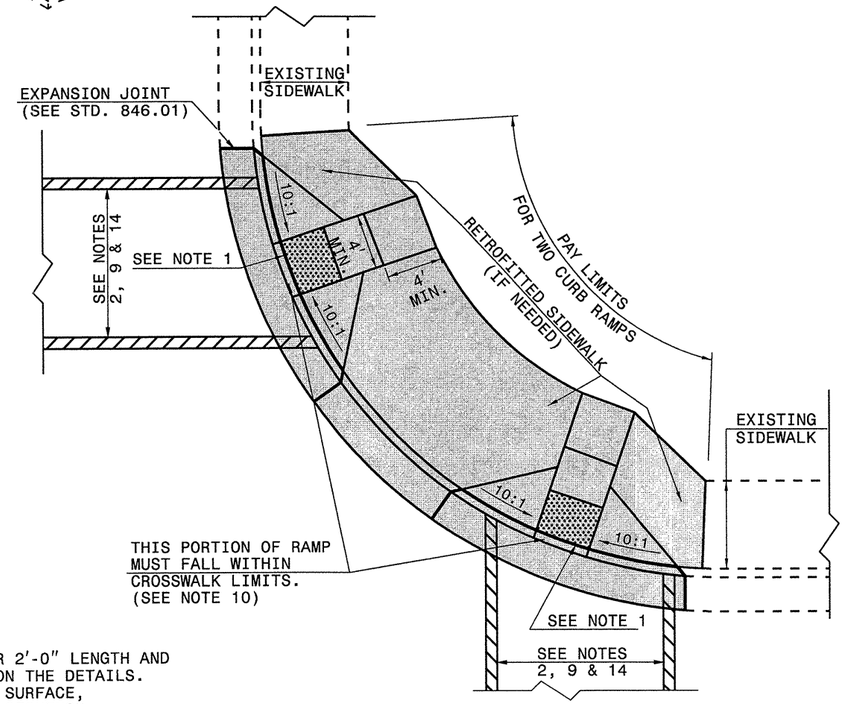
PAY LIMITS OF CURB RAMP



SECTION B-B

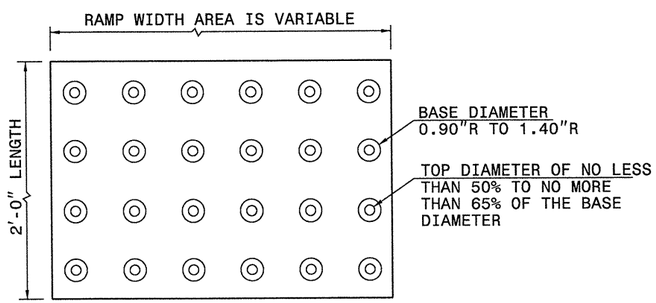


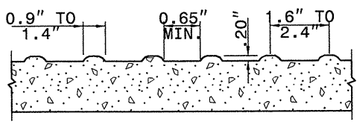
SECTION A-A



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)





NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

DETECTABLE WARNING DOMES

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

ENGLISH DETAIL DRAWING FOR

CURB RAMP

EXISTING CURB AND GUTTER

SHEET 2 OF 5

848D06

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

ENGLISH DETAIL DRAWING FOR

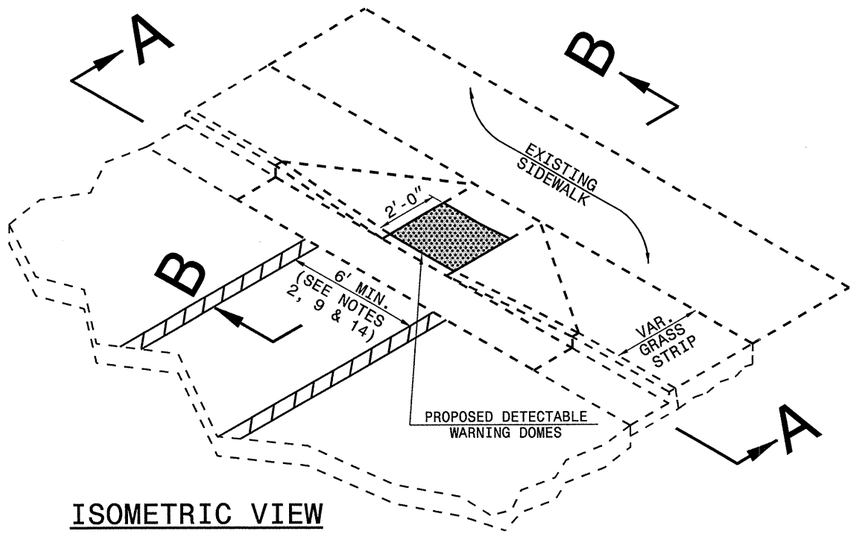
CURB RAMP

EXISTING CURB AND GUTTER

SHEET 3 OF 5

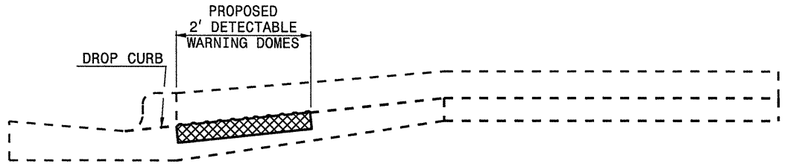
848D06

RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP

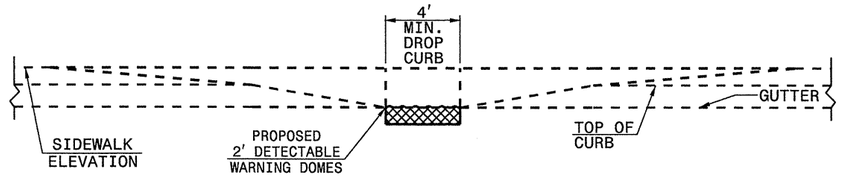


ISOMETRIC VIEW

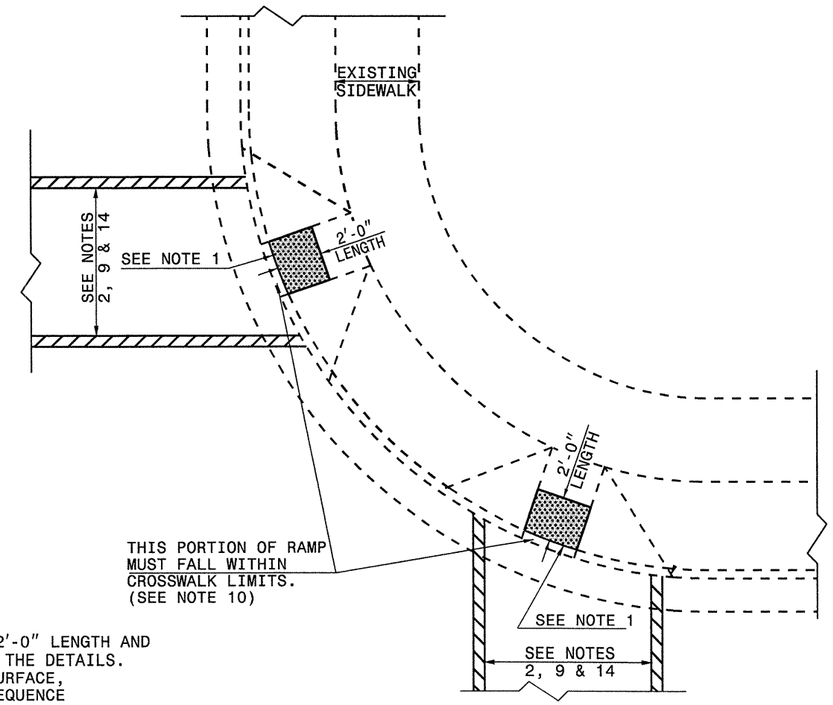
PAY LIMITS OF RETROFIT CURB RAMP



SECTION B-B

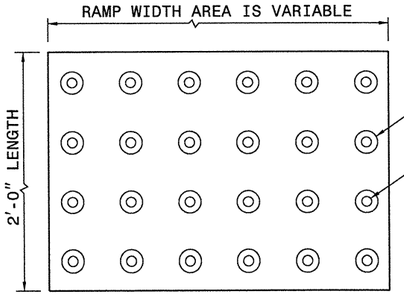


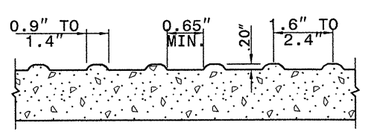
SECTION A-A



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)





NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

DETECTABLE WARNING DOMES

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

ENGLISH DETAIL DRAWING FOR

CURB RAMP

EXISTING CURB AND GUTTER

SHEET 3 OF 5

848D06

GCR.10261.73 SHEET 47

STATE OF
NORTH CAROLINA
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RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR

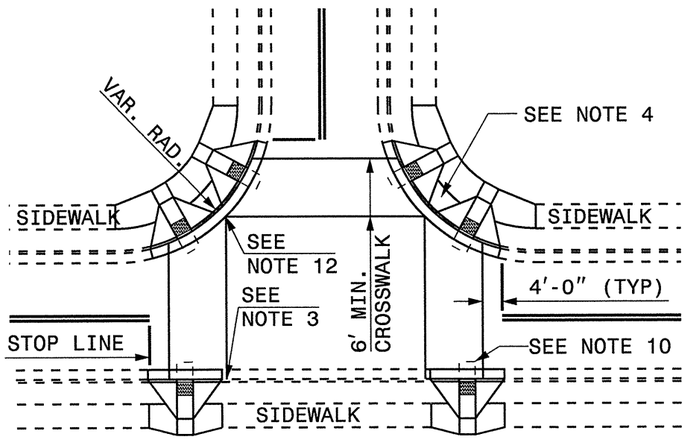
CURB RAMP

EXISTING CURB AND GUTTER

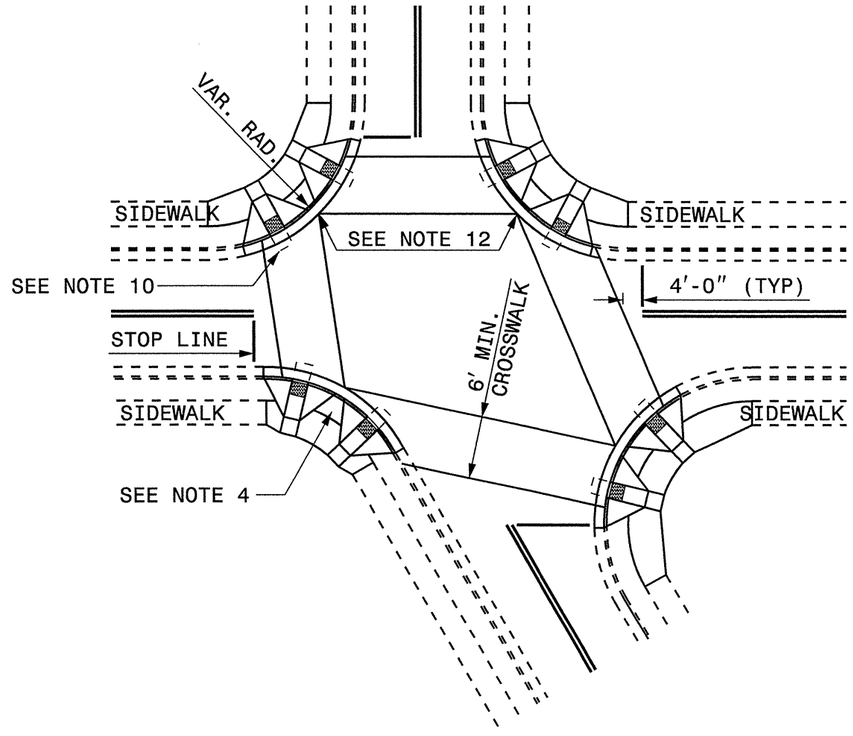
SHEET 4 OF 5

848D06

CURB RAMPS AND EXISTING SIDEWALK



DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS



DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

RESURFACING PROJECTS

PROPOSED CURB RAMP W/ LANDING FOR RESURFACING PROJECTS

EXISTING SIDEWALK

ALLOWABLE LOCATIONS

DUAL RAMP RADII.....ANY

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

ENGLISH DETAIL DRAWING FOR

CURB RAMP

EXISTING CURB AND GUTTER

SHEET 4 OF 5

848D06

GCR.10261.73 SHEET 48

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

ENGLISH DETAIL DRAWING FOR

CURB RAMP

EXISTING CURB AND GUTTER

SHEET 5 OF 5

848D06

CURB RAMP AND EXISTING SIDEWALK

NOTES:

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4′x4′ CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4′ MINIMUM.
5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
6. TERMINATE PARKING A MINIMUM OF 20′ BACK OF A PEDESTRIAN CROSSWALK.
7. CONSTRUCT CURB RAMPS A MINIMUM OF 4′ WIDE.
8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
12. CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4′x4′ WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5′x5′ WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6′ WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGHT THE ISLAND.
14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5′X5′ LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
16. PLACE A ½″ EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
18. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

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RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR

CURB RAMP

EXISTING CURB AND GUTTER

SHEET 5 OF 5

848D06

Sheet 49

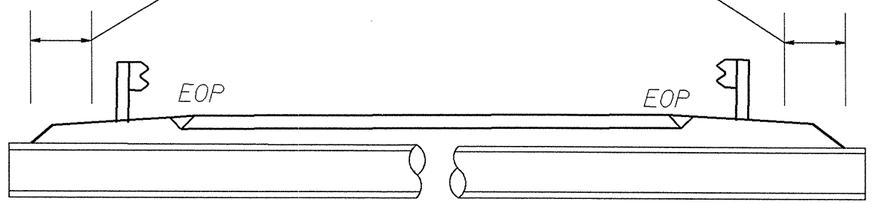
PROJECT REFERENCE NO.	SHEET NO.
6CRJ026173, etc.	EC-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

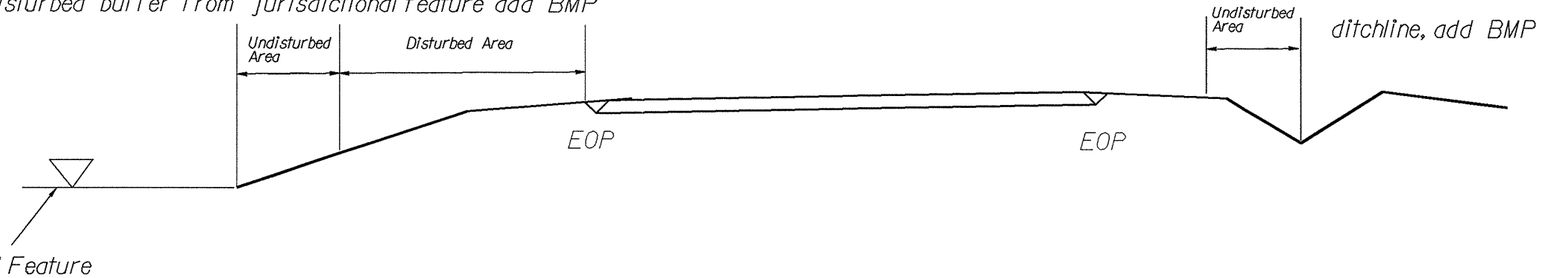
< 5' – 10' Undisturbed buffer add BMP



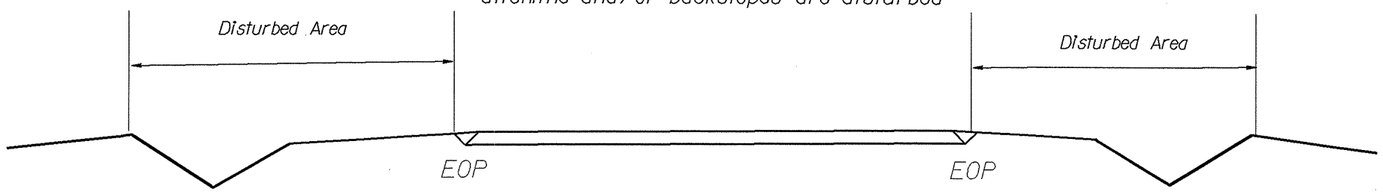
Pipe/Culvert

< 5' – 10' Undisturbed buffer from jurisdictional feature add BMP

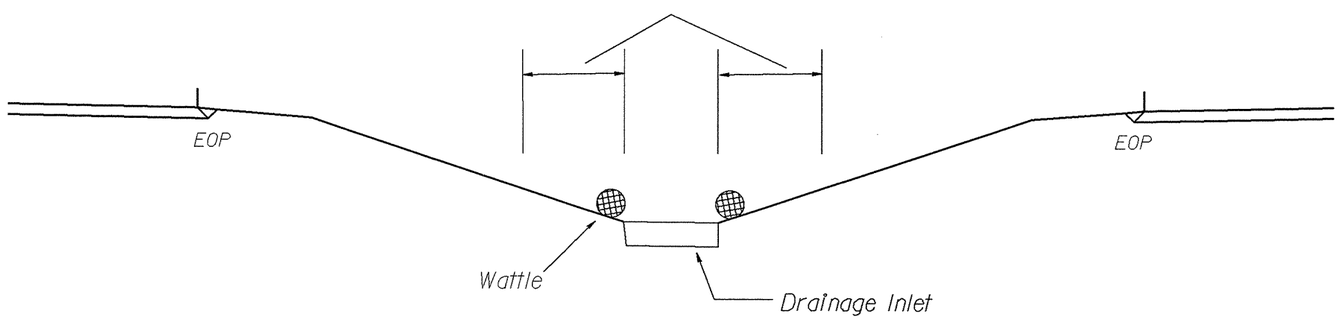
< 5' – 10' Undisturbed buffer from ditchline, add BMP



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



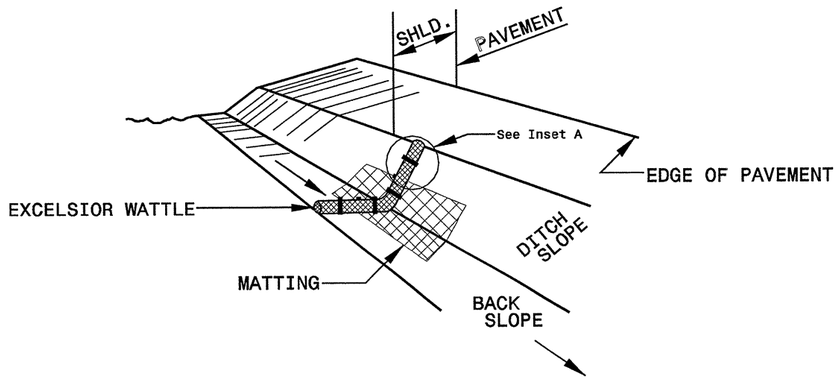
< 5' – 10' Undisturbed buffer from inlet, add wattle



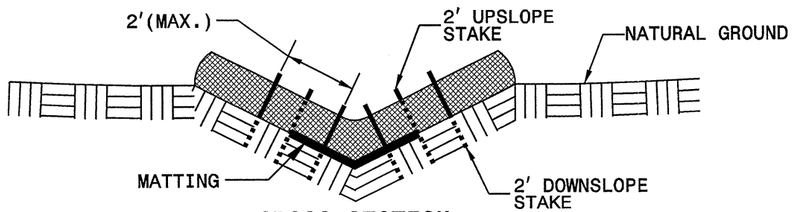
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

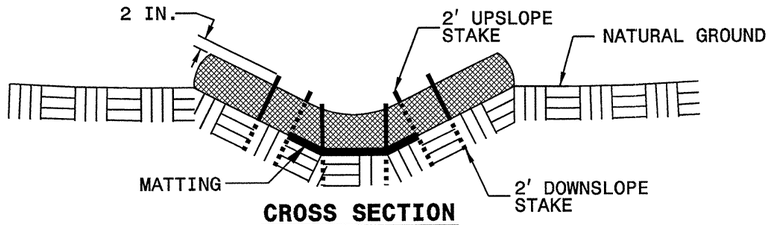
WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

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.

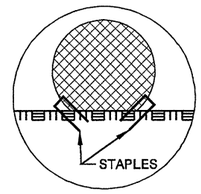
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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

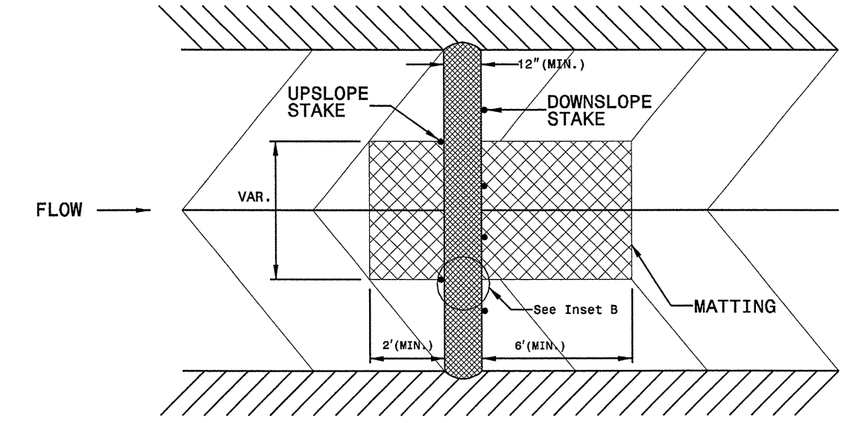
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

INSET A



INSET B

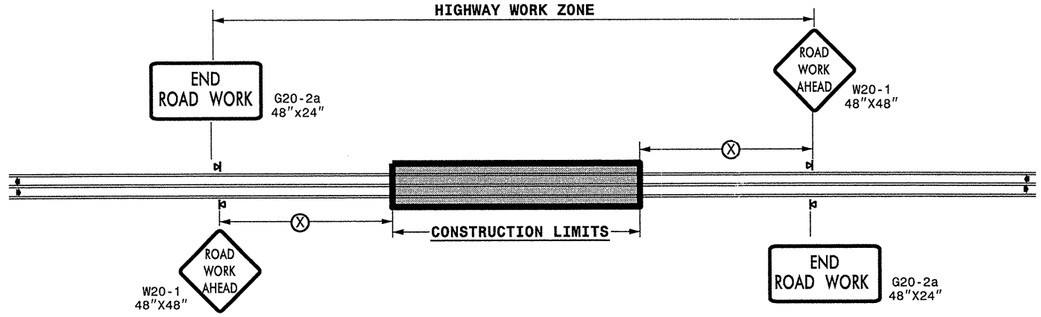


TOP VIEW

WBS ELEMENTS: 6CR.10261.73, 6CR.10431.73,
6CR.20261.73 & 6CR.20431.73

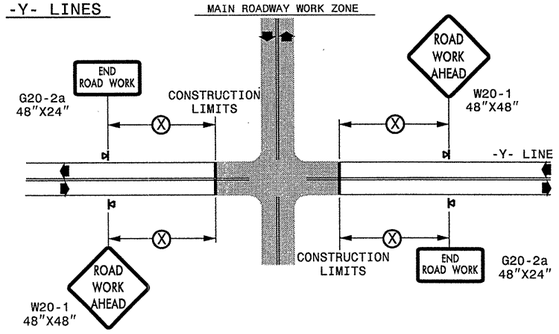
PROJ. REFERENCE NO.	SHEET NO.
SEE TO THE LEFT	TCP-1

TWO-WAY UNDIVIDED ** (L-LINES)



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

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

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

DETAIL DRAWING FOR TWO-WAY UNDIVIDED WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED:_____ DATE:_____

SEAL

DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
ADVANCED WORK ZONE WARNING SIGNS

SCALE:	NONE
DATE:	09/11
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

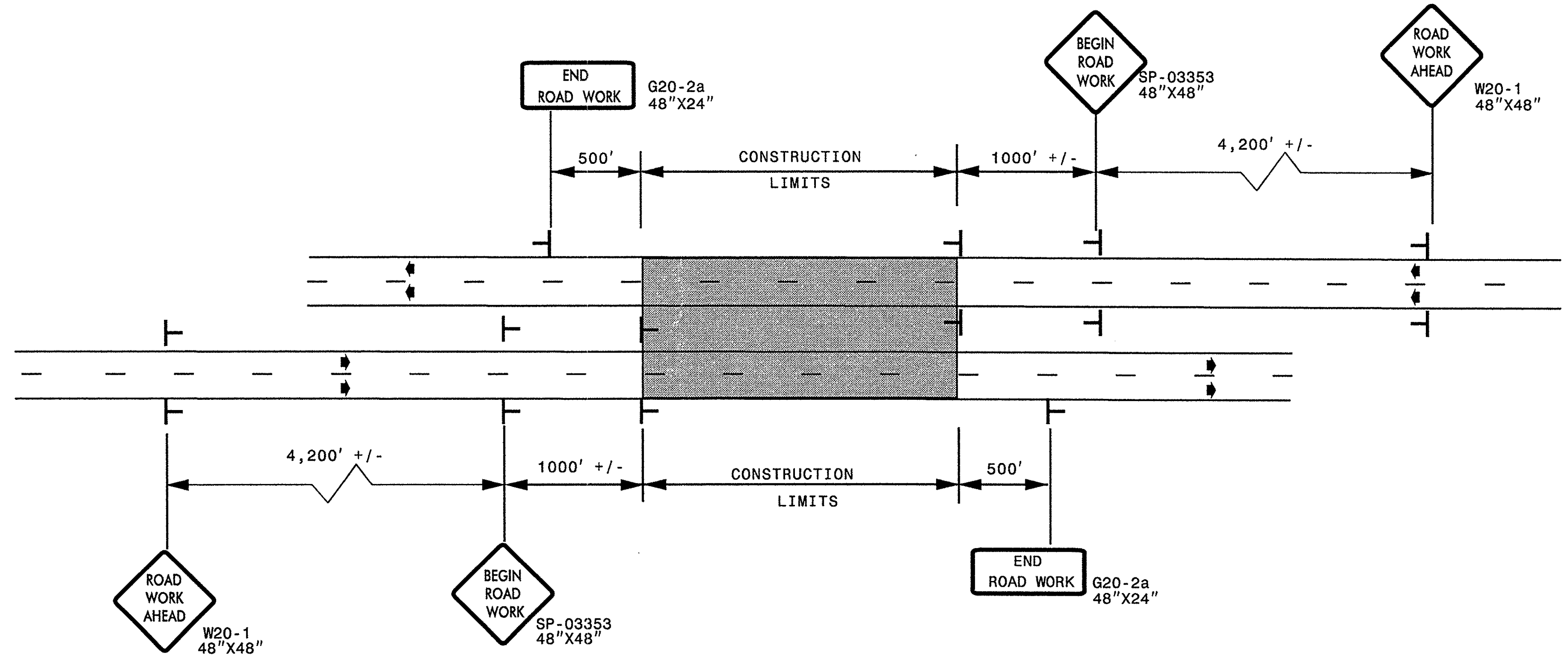
REVISIONS	
CADD FILE	

ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

WBS ELEMENTS: 6CR.10261.73, 6CR.10431.73, 6CR.20261.73 & 6CR.20431.73

PROJ. REFERENCE NO.	SHEET NO.
SEE TO THE LEFT	TCP-2

DETAIL A



LEGEND

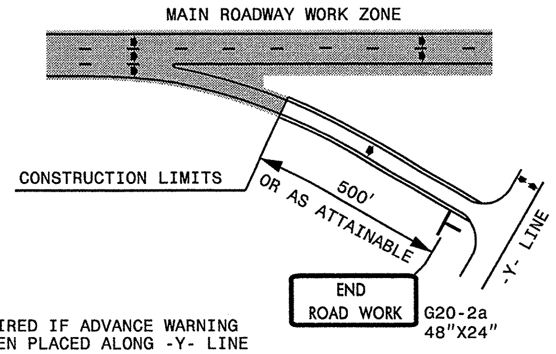
├ STATIONARY SIGN

➧ DIRECTION OF TRAFFIC FLOW

* USE THE "$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B

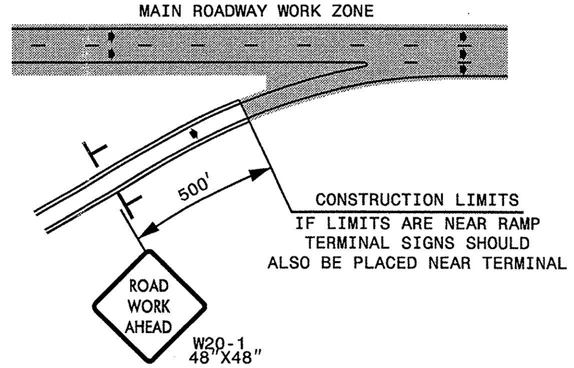
EXIT RAMPS



NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

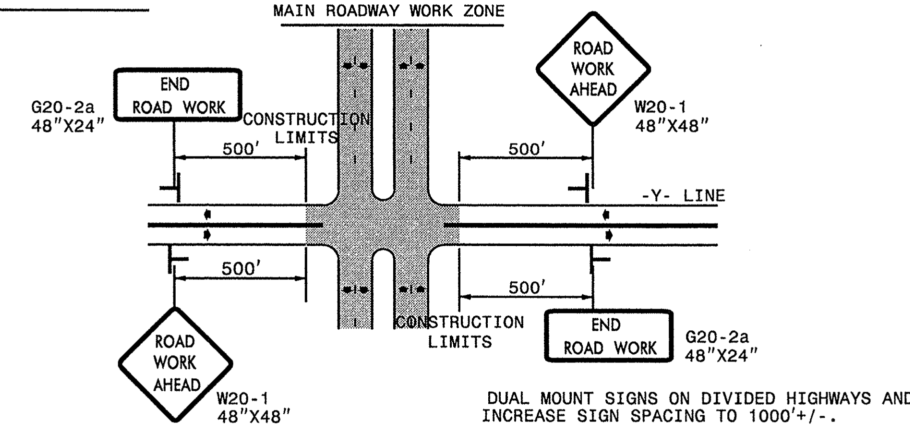
DETAIL C

ENTRANCE RAMPS



DETAIL D

-Y- LINES



DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 1000'+/-.

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

APPROVED:____________ DATE:______

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 022104 ENGINEER JOHN S. KITE JR.

ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)

SCALE:	NONE
DATE:	8/03
DWG. BY:	JI
DESIGN BY:	JI
REVIEWED BY:	

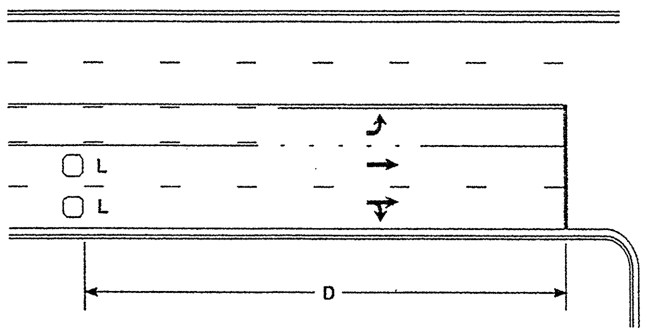
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH TRAFFIC CONTROL UNIT

REVISIONS: 03/04

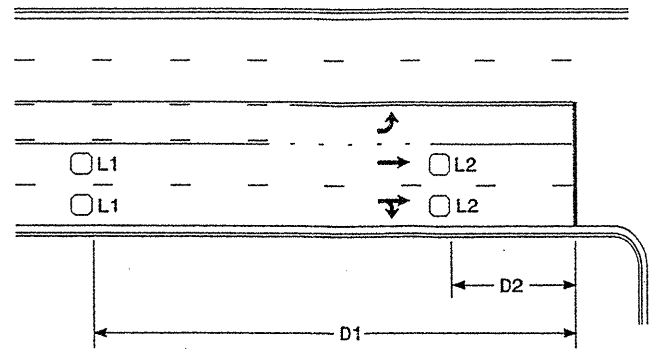
CADD FILE

27-SEP-2011 15:43
\\DOT\DFSROOT01\GROUPS-WZTCCC\TMU\WZTC\Resurfacing\2011Resurfacing\2011Eastern\2011_Div06\C202861A-D_6CR.10261.73x4_Cumb Harn_NC82m88_akp\Files Out\11x17-C202xxx_wbsNNN_freeways_4lanes_or_greater_stationary.dgn
akpatel AT TE244748

High Speed Detection
[≥40 mph (64 km/hr)]



OR



Speed Limit mph (km/hr)	D ft (m)
40 (64)	250 (75)
45 (72)	300 (90)
50 (80)	355 (110)
55 (88)	420 (130)

L = 6ft X 6ft (1.8m X 1.8m)
Wired in series for TS1 Controllers
Wired separately for TS2, 170, and 2070L Controllers

Volume Density Operation

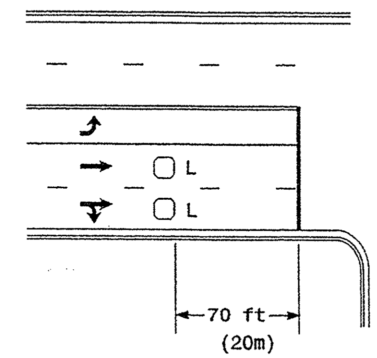
Speed Limit mph (km/hr)	D1 ft (m)	D2 ft (m)
40 (64)	250 (75)	80 (25)
45 (72)	300 (90)	90 (27)
50 (80)	355 (110)	100 (30)
55 (88)	420 (130)	110 (35)

L1 = 6ft X 6ft (1.8m X 1.8m) Wired in series

L2 = 6ft X 6ft (1.8m X 1.8m) Wired in series

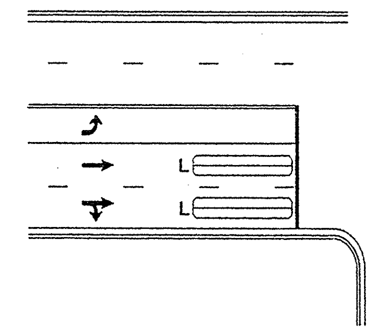
"Stretch" Operation

Low Speed Detection
[≤35 mph (56 km/hr)]



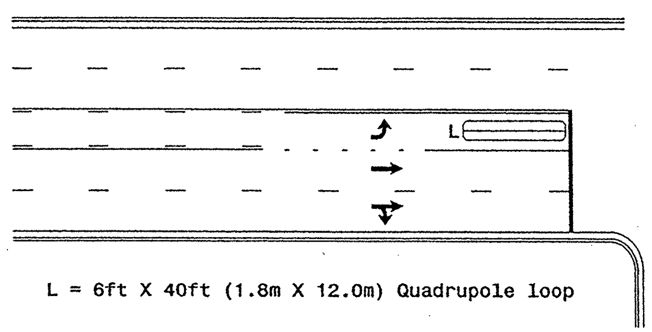
L = 6ft X 6ft (1.8m X 1.8m)
Wired in series

OR



L = 6ft X 40ft (1.8m X 12.0m)
Quadrupole loop, wired separately

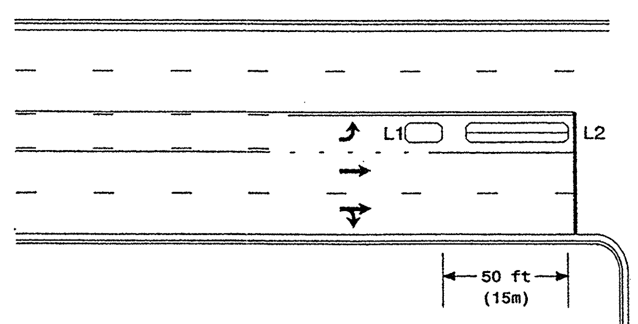
Left Turn Lane Detection



L = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

Presence Loop Detection

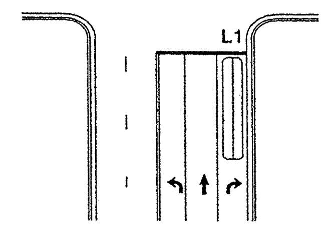
OR



L1 = 6ft X 15ft (1.8m X 4.6m) Queue detector
L2 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

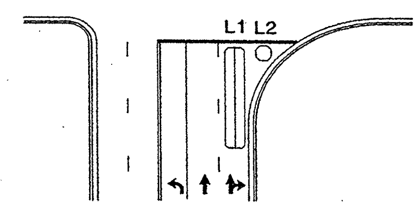
Queue Loop Detection

Right Turn Lane Detection

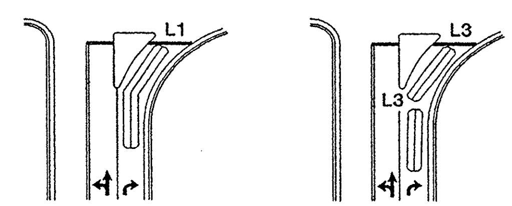


Standard Turn

L1 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop
L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop
Wired separately
L3 = 6ft X 20ft (1.8m X 6.0m) Quadrupole loop
Wired in series

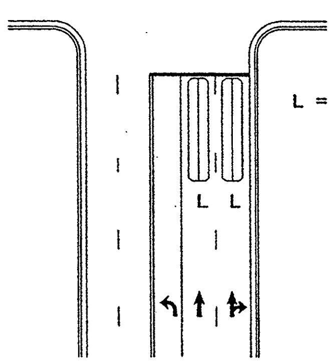


Wide Radius Turn



Channelized Turn

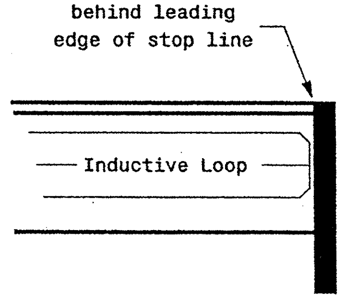
Side Street Detection



L = 6ft X 40ft (1.8m X 12.0m)
Quadrupole loop
Wired to separate detectors/channels

Presence Loop Placement at Stop Lines

Locate loop slightly behind leading edge of stop line



Note:
Loop may be located in advance of stop line when stop line is greater than 15′ (4.5m) from edge of intersecting roadway; or, when loop detects a permissive or protected/permissive left turn.

Recommended Number of Turns

Single 6′ X 6′ (1.8m X 1.8m) loop (wired separately):

Length of Lead-in ft (m)	Number of Turns
< 250 (75)	3
250-375 (75-115)	4
375-525 (115-160)	5
> 525 (160)	6

Quadrupole loops: Use 2-4-2 turns

6′ X 15′ (1.8m X 4.6m) Loops:
Lead-in < 150′ (45 m), use 2 turns
Lead-in > 150′ (45 m), use 3 turns

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
State of North Carolina Department of Transportation
Signals and Geometrics Section
122 N. McDowell St., Raleigh, NC 27603

Typical Loop Locations

PLAN DATE:	June 2006	REVIEWED BY:
PREPARED BY:	P L Alexander	REVIEWED BY:

REVISIONS	INIT.	DATE
∇ Revise pavement markings	aa	12/11/06

SCALE
N/A

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 23486 PAMELA A. ALEXANDER

SIGNATURE | DATE 6/6/06

SIG. INVENTORY NO.

19-DEC-2006 14:29
s:*its signals*lb turn in*misc*looptypical2006.dgn
palexander

PROJECT REFERENCE NO.	SHEET NO.
6CR.10261.73,etc.	Sig. 2

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

11-08

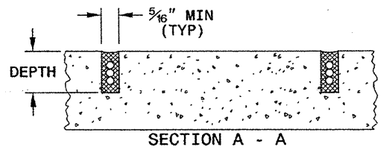
ENGLISH DETAIL DRAWING FOR

INDUCTIVE DETECTION LOOPS

CONVENTIONAL 4-SIDED LOOP

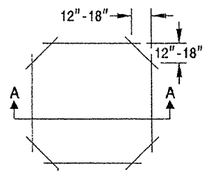
SAW SLOT DEPTH CHART

DEPTH (IN)	NO. OF WIRE TURNS				
	2	3	4	5	6
CONCRETE	2.0	2.0	2.5	2.5	3.0
ASPHALT	2.0	2.5	3.0	3.0	3.0

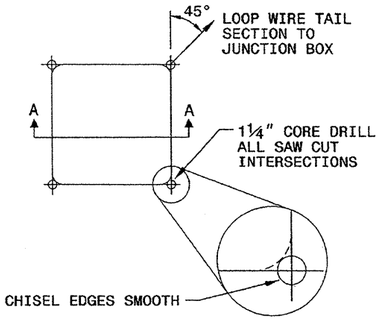


SAW CUT OPTIONS

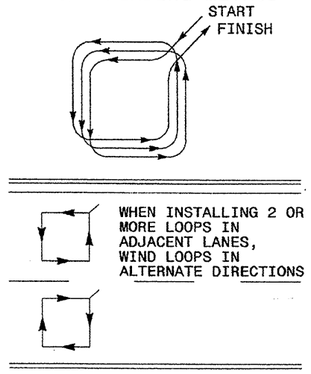
OPTION 1



OPTION 2 (POOR PAVEMENT)



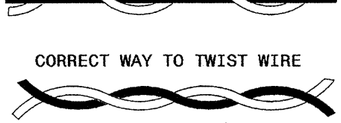
LOOP WINDING METHOD



LOOP WIRE TWISTING METHOD

INCORRECT WAY TO TWIST WIRE

CORRECT WAY TO TWIST WIRE



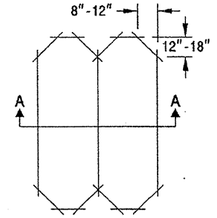
NOTES

1. OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
2. MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
3. WIRE LOOPS CONNECTED TO THE SAME DETECTOR CHANNEL IN SERIES.
4. LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS OR APPROVED BY ENGINEER.

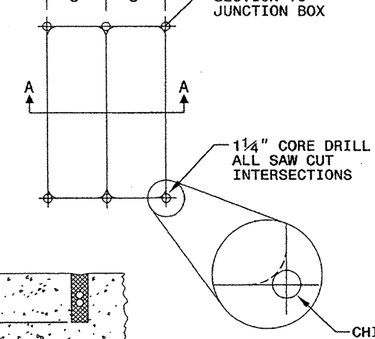
QUADRUPOLE LOOP

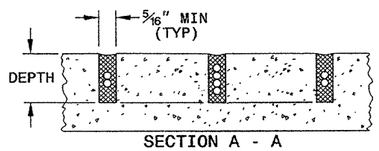
SAW CUT OPTIONS

OPTION 1



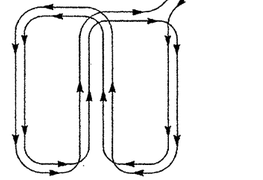
OPTION 2 (POOR PAVEMENT)





DEPTH IS 2.5" FOR CONCRETE AND 3.0" FOR ASPHALT

LOOP WINDING METHOD



SHEET 1 OF 3

1725D01

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

11-08

ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS

SHEET 1 OF 3

1725D01

See Plate for Title

Prepared in the Offices of:

Intelligent Transportation Systems & Signals Unit
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

750 N. Greenfield Parkway
Garner, NC 27529

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 16286 ENGINEER MILTON I DEAN

SIGNATURE

11/24/08
DATE

24-NOV-2008 09:28
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zmillie

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

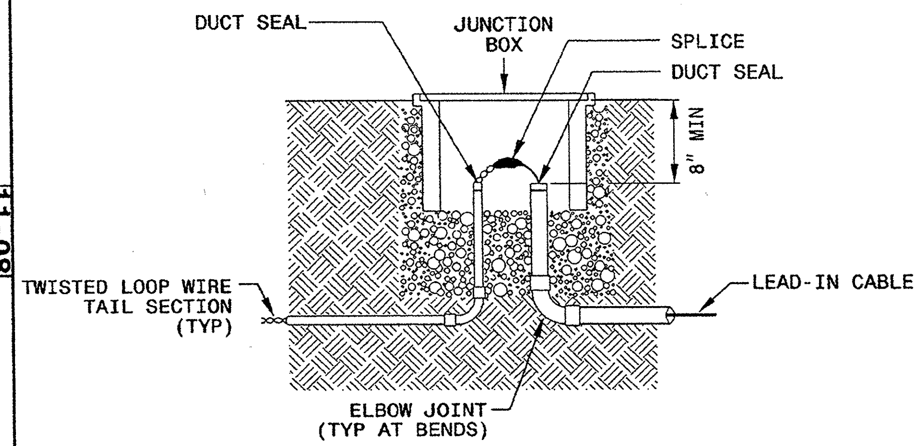
11-08

ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
LOOP WIRE DETAILS

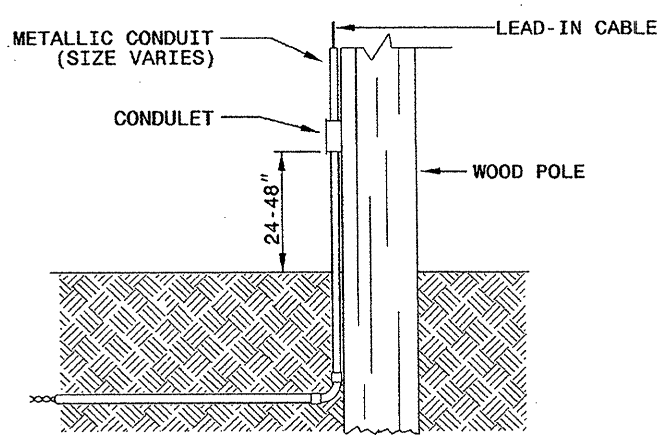
SHEET 2 OF 3
1725D01

LOOP WIRE SPLICE POINT DETAILS

LOOP WIRE AT JUNCTION BOX



LOOP WIRE AT POLE

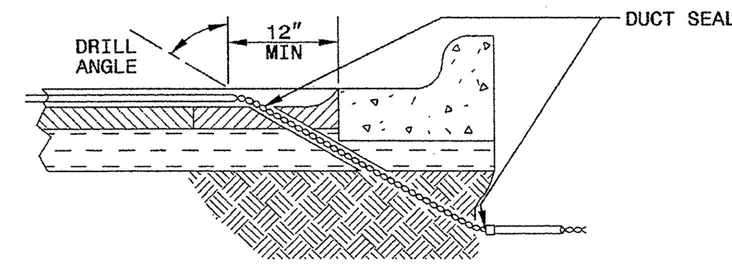


NOTE

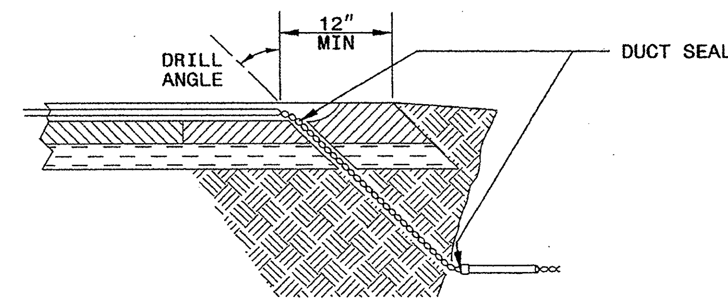
SPLICE ALL LOOP WIRE TAIL SECTIONS/LEAD-IN CABLE IN JUNCTION BOXES OR APPROVED CONDULETS.

LOOP WIRE PAVEMENT EDGE DETAILS

LOOP WIRE AT CURB & GUTTER SECTION



LOOP WIRE AT PAVEMENT SECTION



NOTES

1. DO NOT EXCAVATE UNDER CURB AND GUTTER SECTIONS FOR CONDUIT INSTALLATION.
2. TWIST LOOP WIRE TAIL SECTIONS FROM WHERE LOOP WIRE TAIL LEAVES SAW CUT TO JUNCTION BOX, INCLUDING THROUGH CONDUIT.
3. BEFORE SEALING LOOPS, INSTALL DUCT SEAL WHERE LOOP WIRE TAIL SECTION LEAVES SAW CUT IN PAVEMENT AND AT ENTRANCE OF CONDUIT TO JUNCTION BOX.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
11-08
ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
LOOP WIRE DETAILS
SHEET 2 OF 3
1725D01

See Plate for Title

Prepared in the Offices of:
Intelligent Transportation Systems & Signals Unit
750 N. Greenfield Parkway
Garner, NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 16286 ENGINEER MILTON I. DEAN

SIGNATURE 11/24/08 DATE

PROJECT REFERENCE NO.	SHEET NO.
6CR.10261.73,etc.	Sig. 4

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

11-08

ENGLISH DETAIL DRAWING FOR

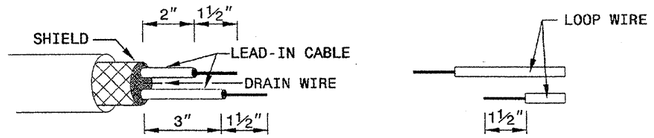
INDUCTIVE DETECTION LOOPS

SPLICING FOR LEAD-IN CABLE AND LOOP WIRE

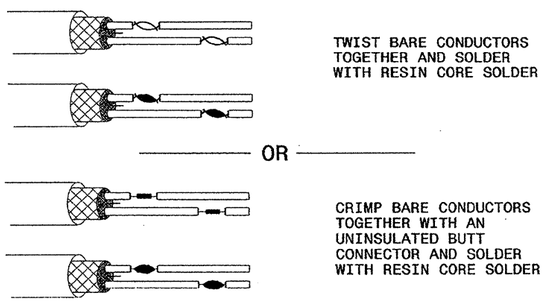
SHEET 3 OF 3

1725D01

STEP 1. STRIP LOOP WIRE AND LEAD-IN CABLE



STEP 2. CONNECT AND SOLDER



TWIST BARE CONDUCTORS TOGETHER AND SOLDER WITH RESIN CORE SOLDER

OR

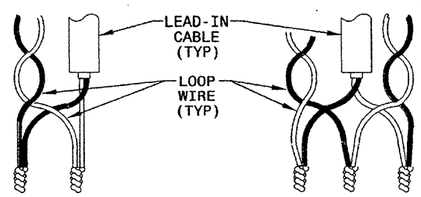
CRIMP BARE CONDUCTORS TOGETHER WITH AN UNINSULATED BUTT CONNECTOR AND SOLDER WITH RESIN CORE SOLDER

BOND SHIELD DRAIN WIRE AT SPLICE SECTIONS (DO NOT GROUND)

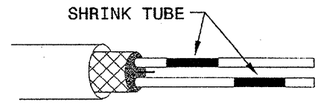
LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS

SINGLE CONNECTION

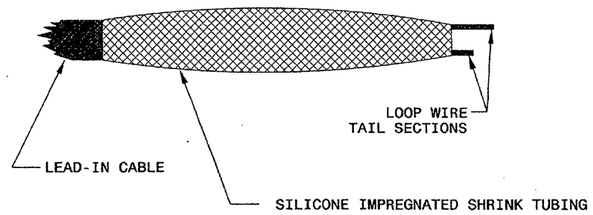
SERIES CONNECTION



STEP 3. INSULATE EACH SOLDER JOINT SEPARATELY



STEP 4. ENVIRONMENTALLY PROTECT SPLICE



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

11-08

ENGLISH DETAIL DRAWING FOR

INDUCTIVE DETECTION LOOPS

SPLICING FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3

1725D01

See Plate for Title

Prepared in the Offices of:

Intelligent Transportation Systems & Signals Unit
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

750 N. Greenfield Parkway
Garner, NC 27529

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 16286 ENGINEER MILTON I DEAN

Milton I Dean 11/24/08
SIGNATURE DATE

24-NOV-2008 09:35
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zmittle

GENERAL NOTES

(1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
- A. TRUCK MOUNTED SIGNS
- B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
- C. GROUND MOUNTED ADVANCE WARNING SIGNS (MUST CIRCLE TO PICK UP SIGNS)
- D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS) (MUST USE CIRCLE TO PICK UP SIGNS)

(2) ALL ADVANCE WARNING SIGNS MUST BE 48″ X 48″ WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48″ X 48″ SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.

(3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.

(4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND TO BOTTOM OF SIGN.

(5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.

(6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

(7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.

(8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.

(9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.

(10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.

(11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.

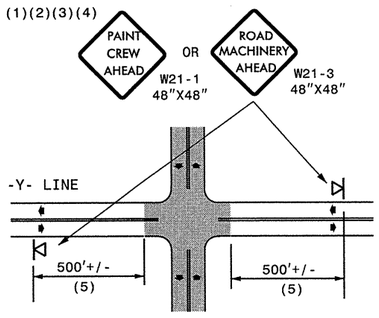
(12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.

(13) INFORMATIONAL SIGNS SHOULD BE ACTIVITY SPECIFIC, i.e. "PAINT CREW IN ROAD". SIGNS MAY BE RECTANGULAR OR DIAMOND SHAPE. SIGN SIZE SHOULD BE BASED ON THE MOTORIST ABILITY TO RECOGNIZE SIGN WHEN TRAVELING FIVE (5) MILES ABOVE POSTED SPEED LIMIT.

(14) IF A LEAD VEHICLE IS ADDED TO OPERATION, IT SHOULD HAVE THE SAME ADVANCE WARNING SIGNS AS THE APPLICATION VEHICLE SHOWN BELOW.

LEGEND

- PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.
- DIRECTION OF TRAFFIC FLOW
- APPLICATION VEHICLE WITH LIGHT BAR
- PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND LIGHT BAR (SEE ROADWAY STANDARD NO. 1165.01). TMIA MUST BE NCHRP-350 TEST LEVEL 3 (60+MPH) APPROVED.
- FLASHING ARROW PANEL, TYPE "B" (60″X30″ MIN.), "CAUTION MODE"



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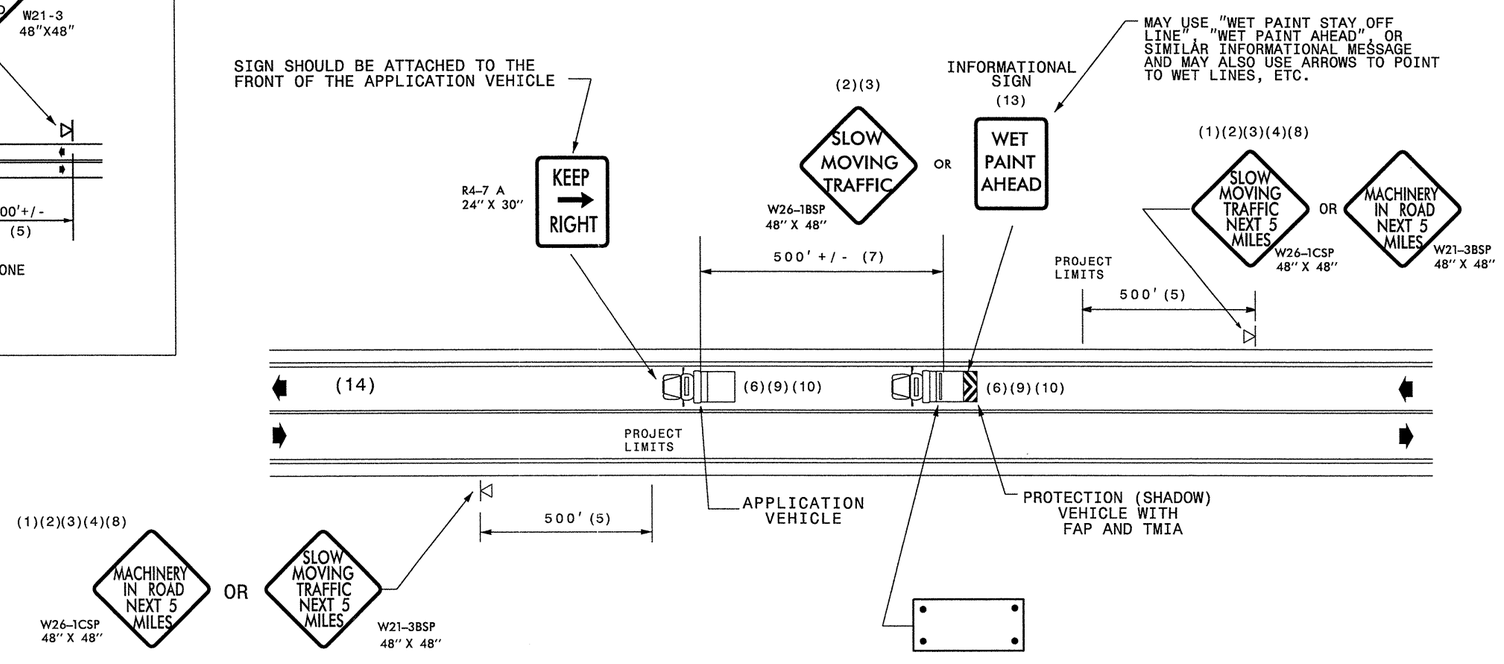


MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON TWO-LANE TWO-WAY ROADWAYS

DRAWING NUMBER 6
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04

GENERAL NOTES

(1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
- A. TRUCK MOUNTED SIGNS
- B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
- C. GROUND MOUNTED ADVANCE WARNING SIGNS (MUST CIRCLE TO PICK UP SIGNS)
- D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS) (MUST USE CIRCLE TO PICK UP SIGNS)

(2) ALL ADVANCE WARNING SIGNS MUST BE 48″ X 48″ WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48″ X 48″ SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.

(3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.

(4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF FIVE (5) FEET FROM THE GROUND TO BOTTOM OF SIGN.

(5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.

(6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

(7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.

(8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.

(9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.

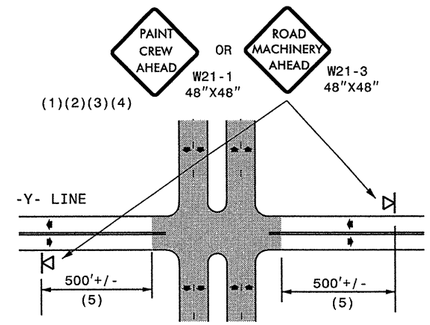
(10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.

(11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.

(12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.

LEGEND

- PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.
- DIRECTION OF TRAFFIC FLOW
- APPLICATION VEHICLE WITH LIGHT BAR
- PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND LIGHT BAR (SEE ROADWAY STANDARD NO. 1165.01). TMIA MUST BE NCHRP-350 TEST LEVEL 3 (60+MPH) APPROVED.
- ADVANCE WARNING VEHICLE WITH TRUCK MOUNTED CHANGEBLE MESSAGE SIGN (CMS) AND LIGHT BAR. MESSAGE SIGN LETTER HEIGHT SHOULD BE A MINIMUM OF 10 INCHES.
- FLASHING ARROW PANEL, TYPE "B" (60″X30″ MIN.), APPROPRIATE DIRECTION INDICATED
- CHANGEABLE MESSAGE SIGN



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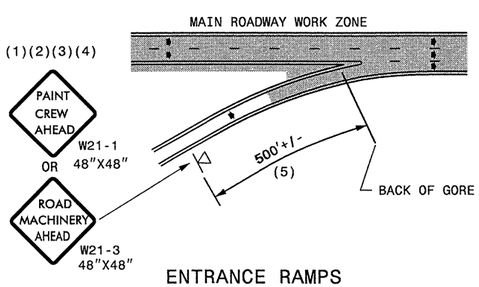
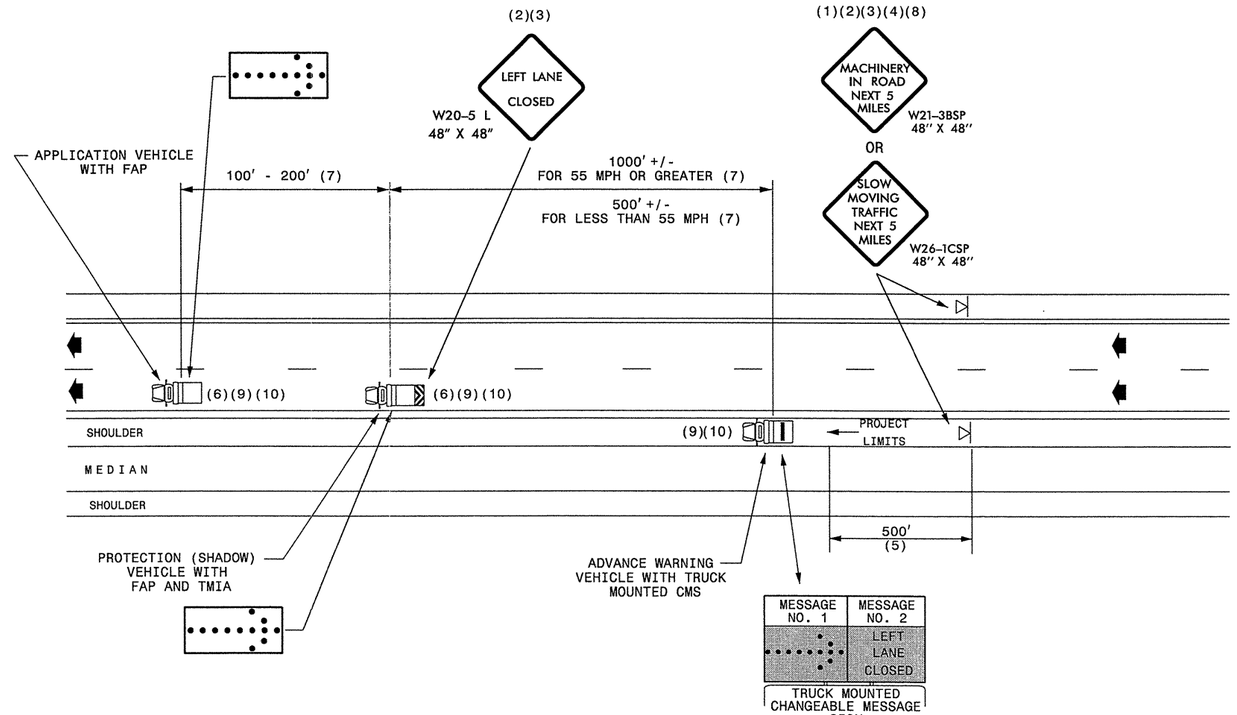


ENTRANCE RAMPS



MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON NON-INTERSTATE MULTILANE DIVIDED ROADWAYS

DRAWING NUMBER 7
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04