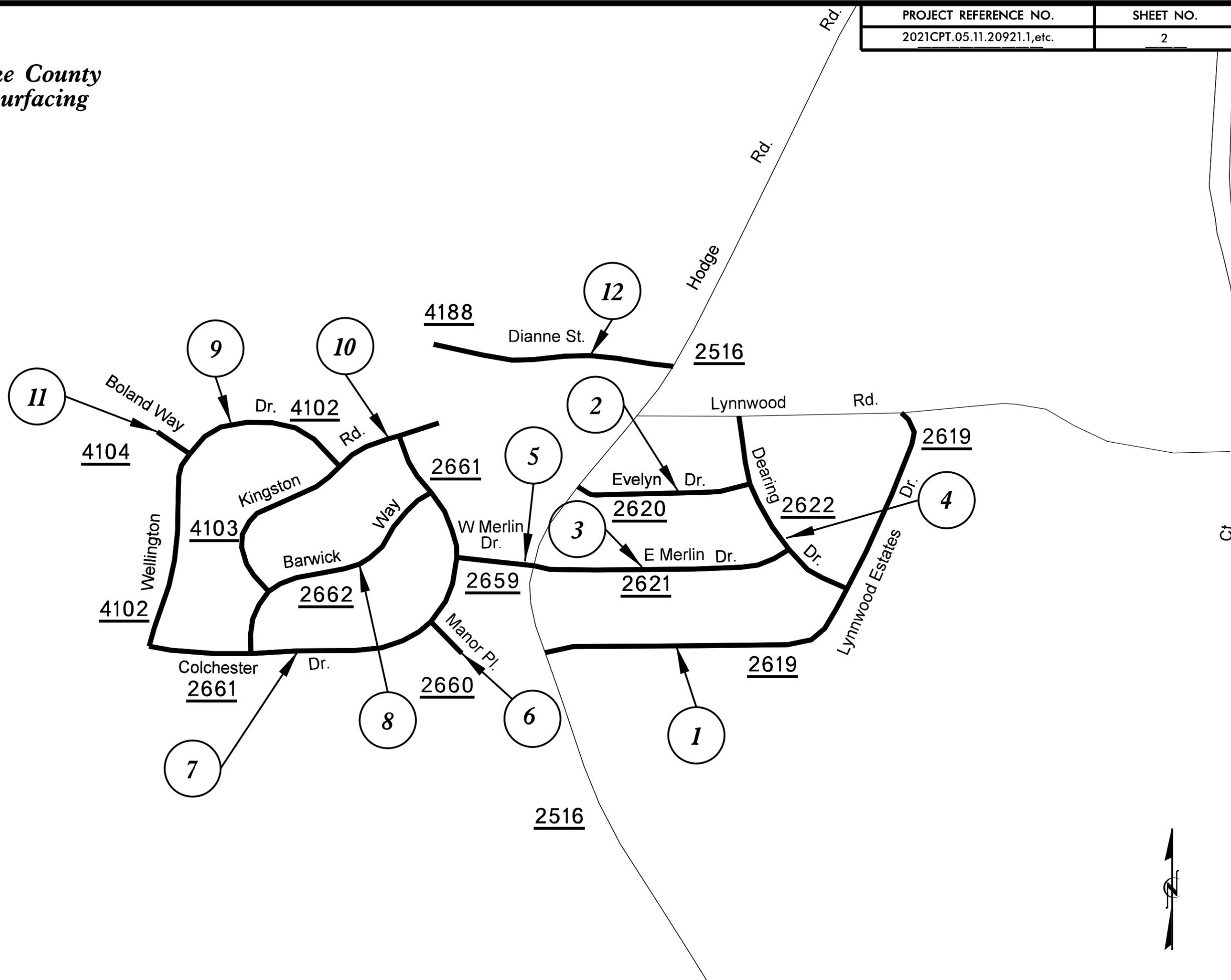


**2021 Wake County
East Resurfacing**

PROJECT REFERENCE NO. 2021CPT.05.11.20921.1,etc.	SHEET NO. 2
---	----------------



5/14/99
C:\TIVE\ASSETS\DRAWING\2021\2021CPT.05.11.20921.1.DWG

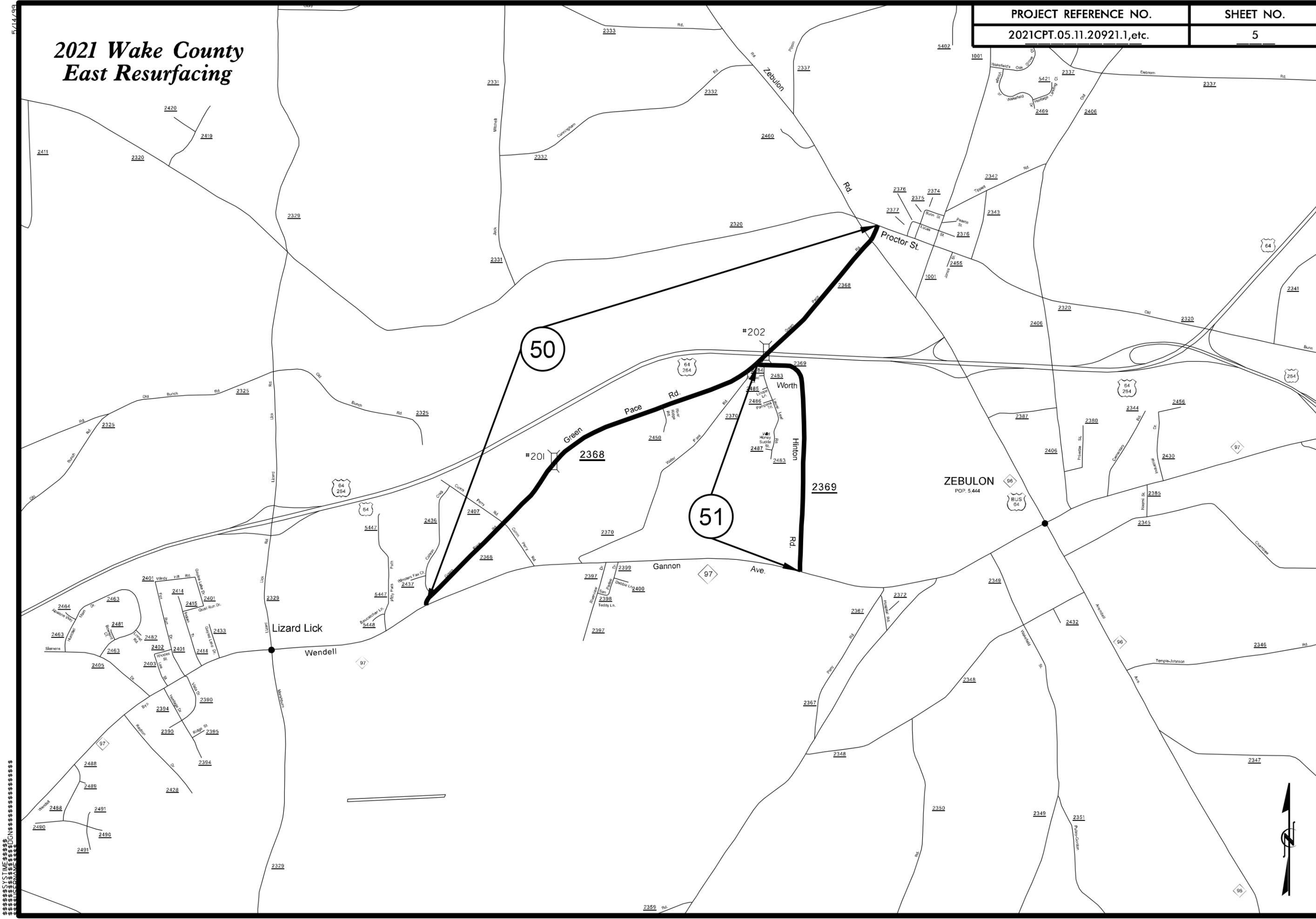
2021 Wake County East Resurfacing

PROJECT REFERENCE NO.

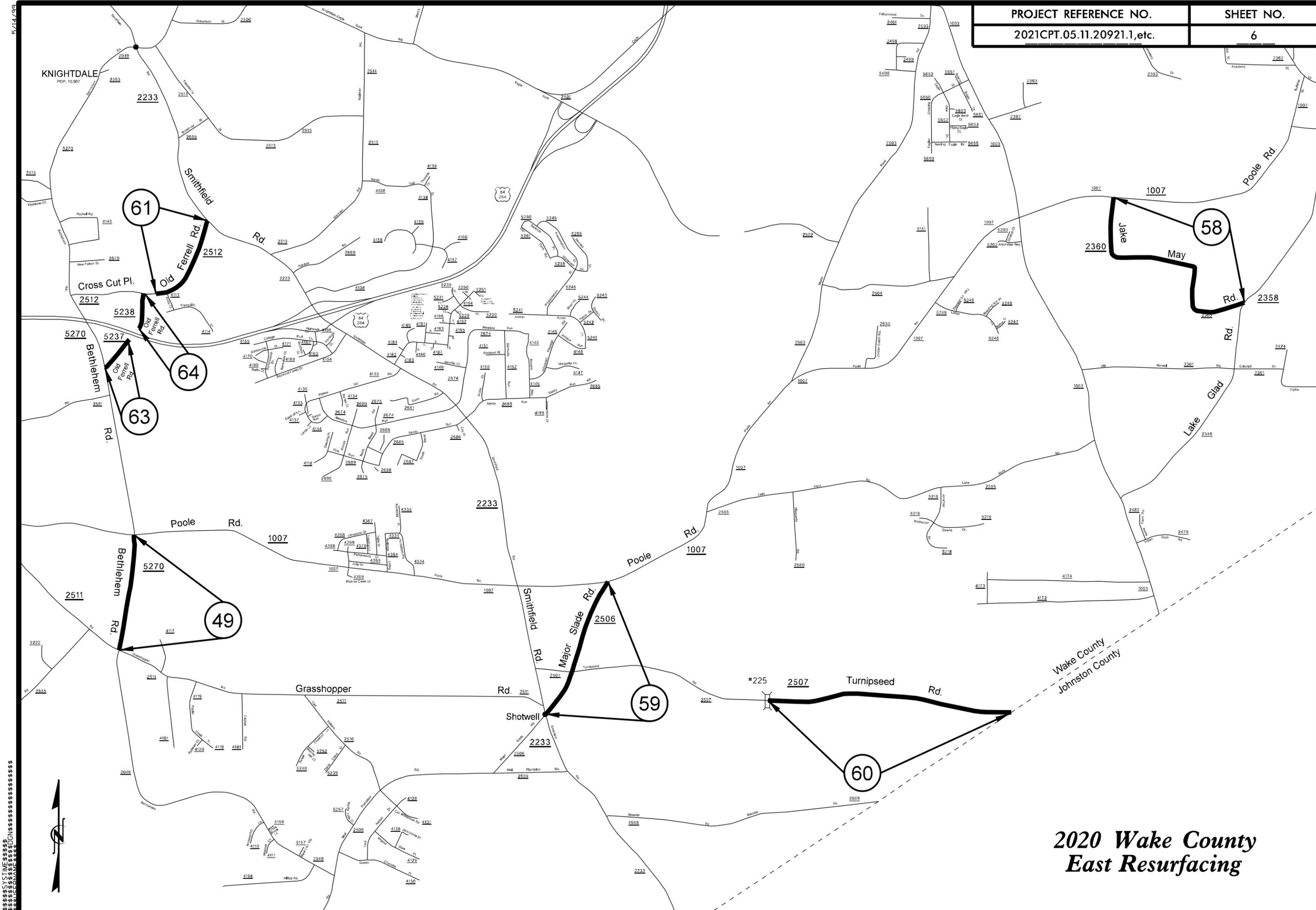
2021CPT.05.11.20921.1,etc.

SHEET NO.

5



C:\PROJECTS\2021CPT\2021CPT.05.11.20921.1\2021CPT.05.11.20921.1_SHEET 5.dwg



5/14/20



**2020 Wake County
East Resurfacing**

PAVEMENT SCHEDULE

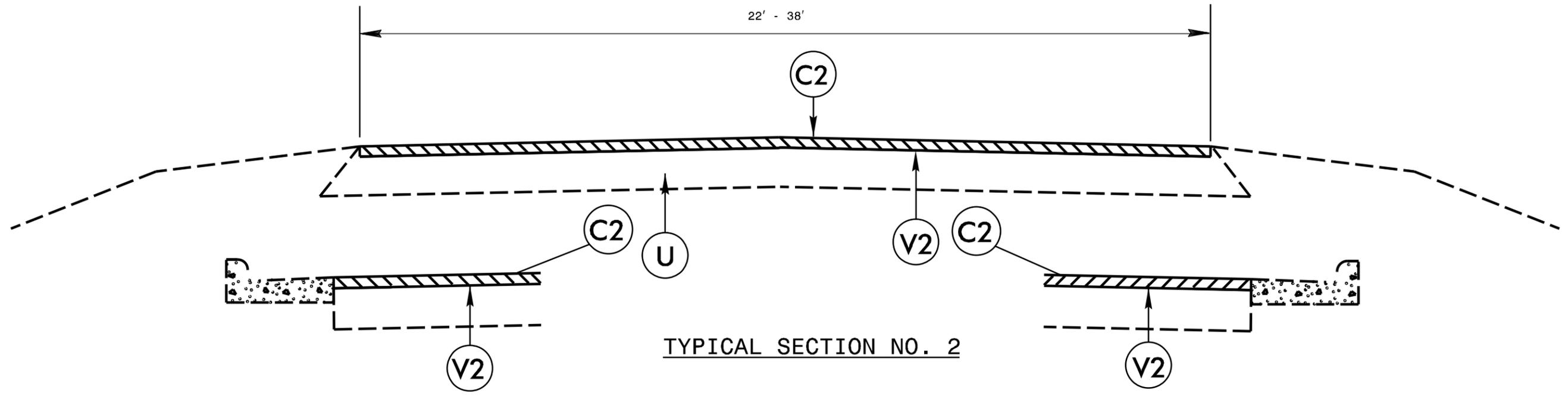
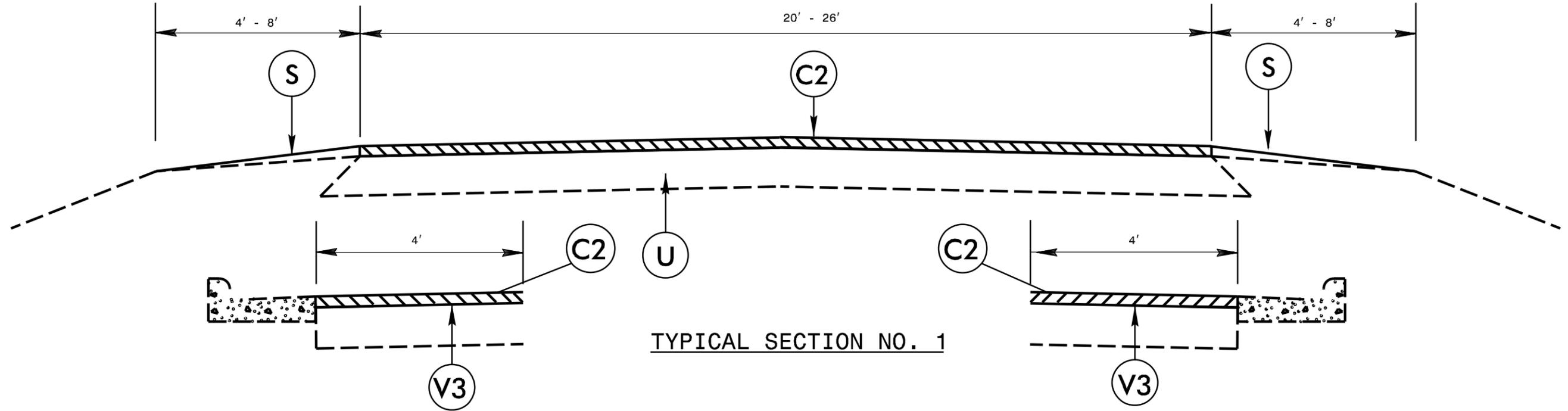
PROJECT REFERENCE NO.

SHEET NO.

2021CPT.05.11.20921.1, etc.

7

C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	V1	0" - 1" MILLING
S	SHOULDER GRADING ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)	V2	1½" MILLING
		V3	0" - 1½" MILLING



PAVEMENT SCHEDULE

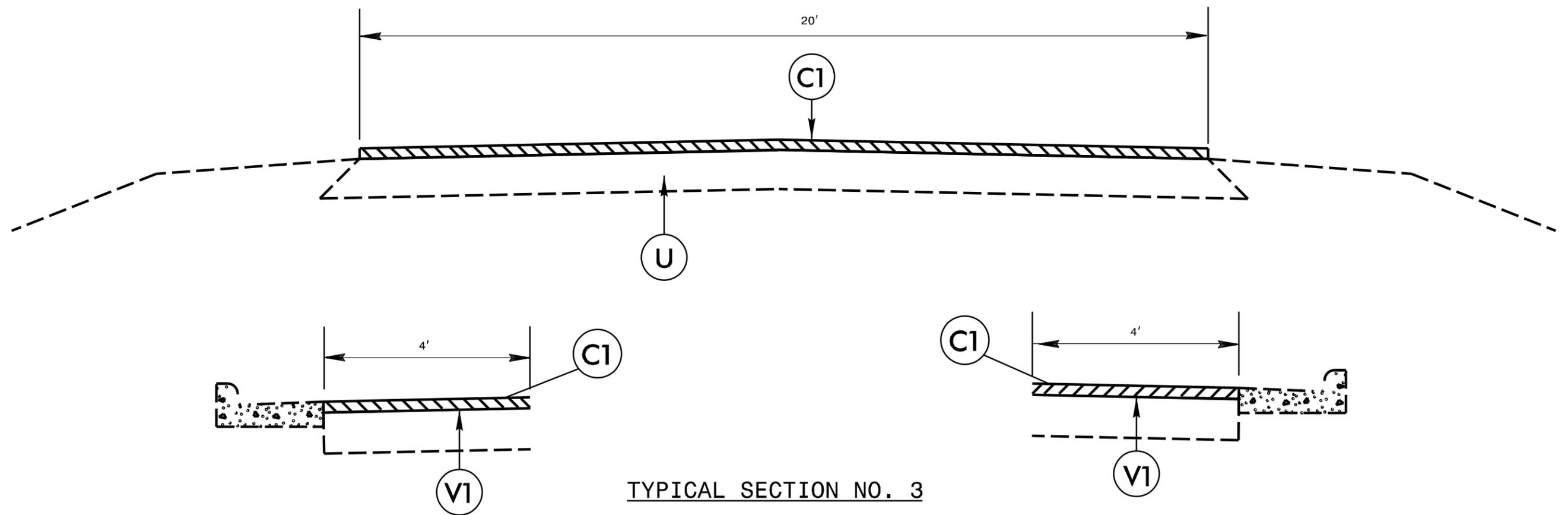
PROJECT REFERENCE NO.

SHEET NO.

2021CPT.05.11.20921.1, etc.

8

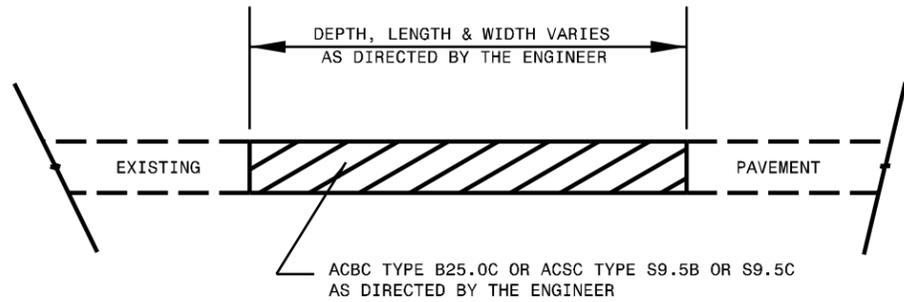
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	V1	0" - 1" MILLING
S	SHOULDER GRADING ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)	V2	1½" MILLING
		V3	0" - 1½" MILLING



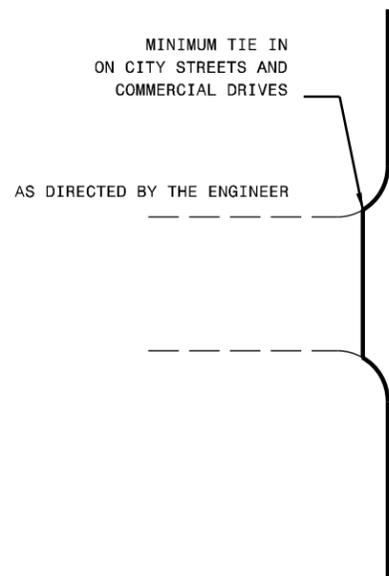
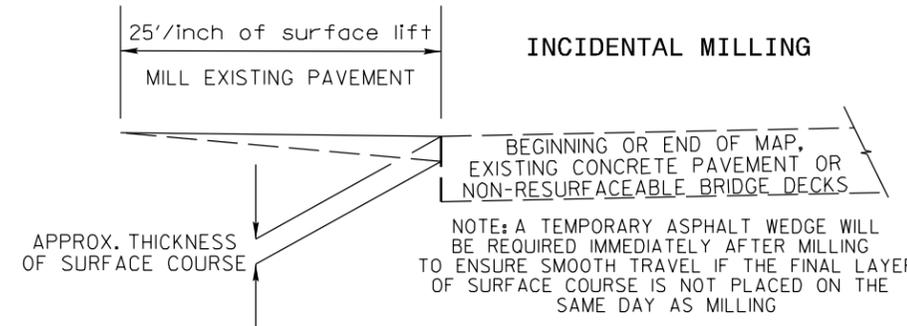
TYPICAL SECTION NO. 3

NOTES

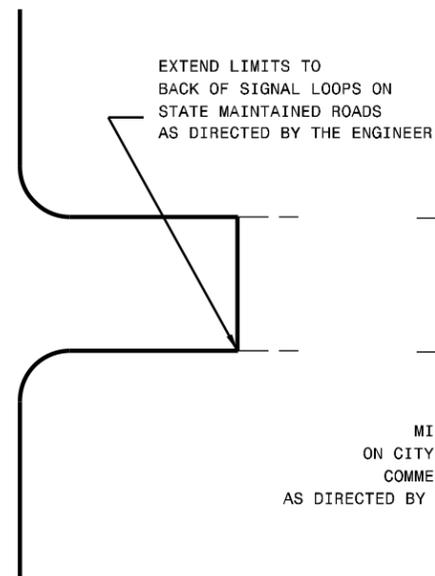
ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADIUS OR AS DIRECTED BY THE ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



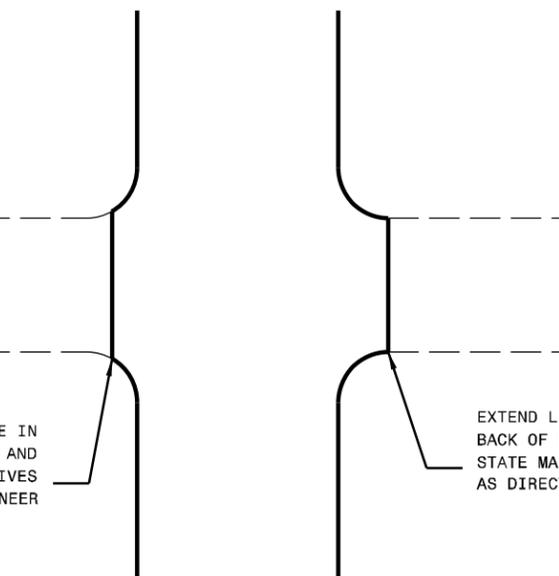
PATCHING EXISTING PAVEMENT
MILLING TO BE PERFORMED PRIOR TO PATCHING



DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

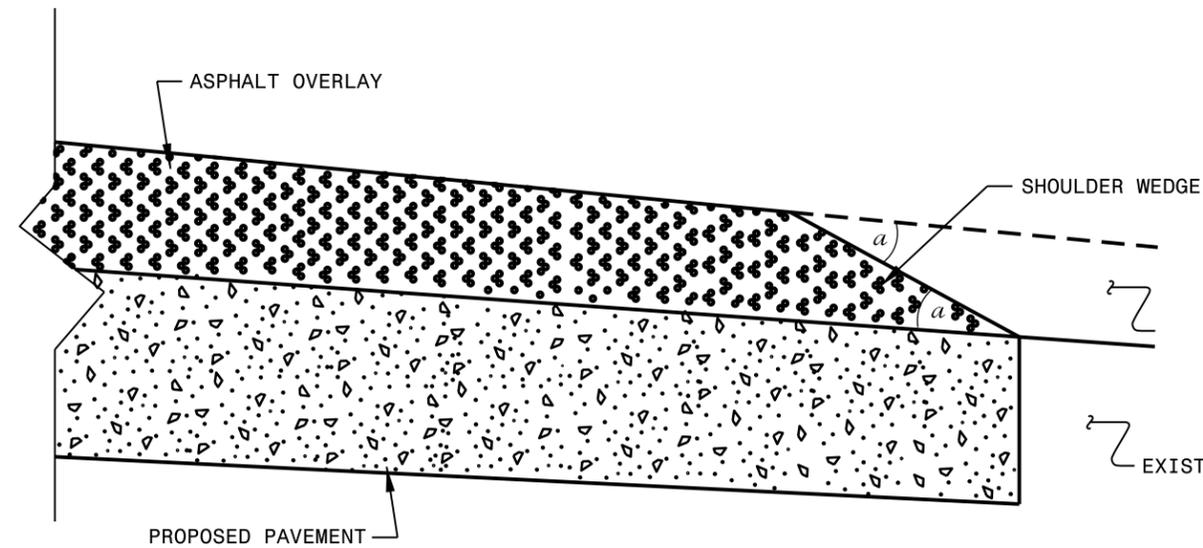


MINIMUM TIE IN
ON CITY STREETS AND
COMMERCIAL DRIVES
AS DIRECTED BY THE ENGINEER

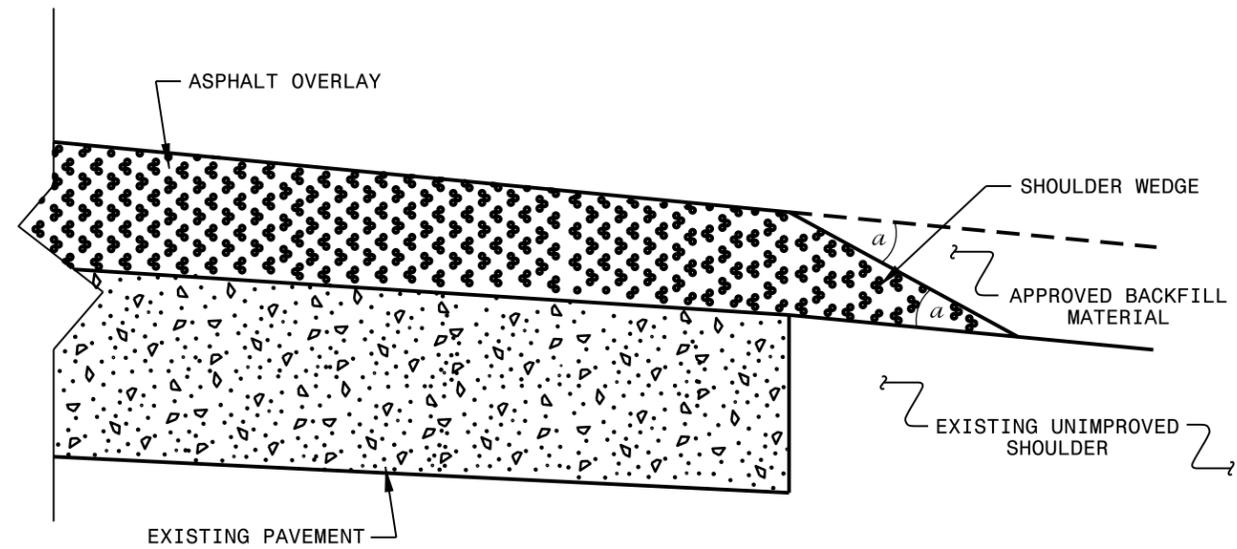


DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

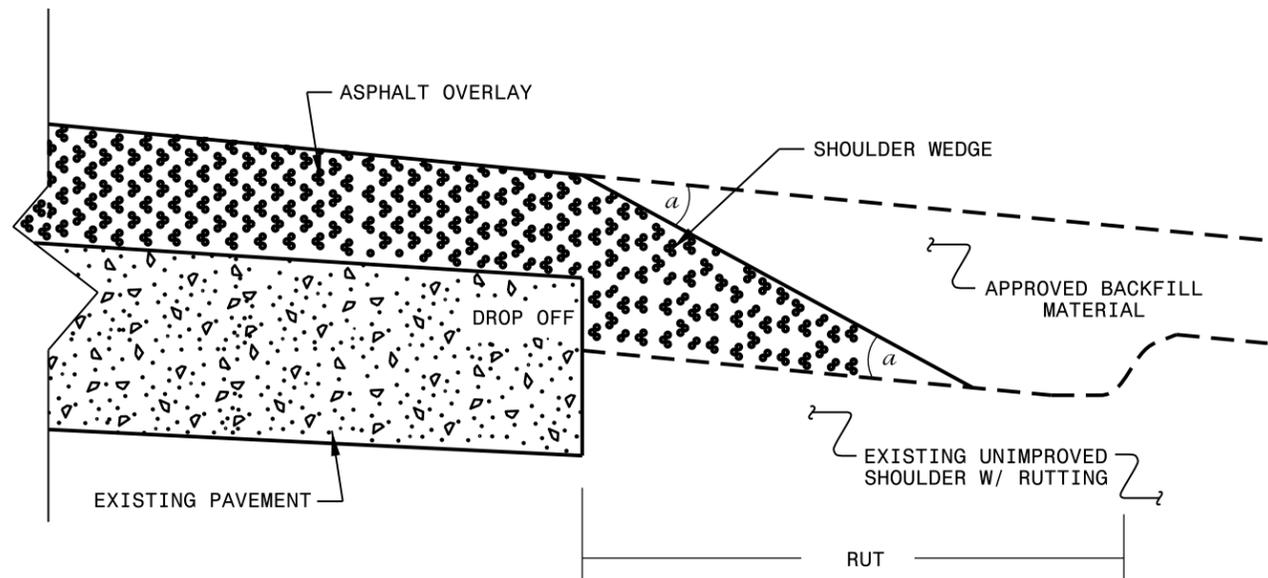
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dwg			

SYSTEM: 2011
 USER: T.SPELL
 DATE: 2/2/16

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	0264000000-E	1220000000-E	1260000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	2752000000-E	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	6117000000-N	7444000000-E	
											BORROW	SHOULDER GRADING	INCIDENTAL STONE BASE	AGGREGATE SHOULDER BORROW	1 1/2" MILLING	0" TO 1.5" MILLING	0" TO 1" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	GENERIC PAVING ITEM, RMV AND REPLACE 2' 6" C&G	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	INDUCTIVE LOOP SAWCUT
											MI	FT	CY	SMI	TONS	TON	SY	SY	SY	SY	TONS	TON	TONS	LF	EA	EA	LF	LF	AC
		1	SR 2619 - LYNNWOOD ESTATES DR	LYNNWOOD RD TO SR 2516 - HODGE RD	1	2	NO	NO	0.531	20	53	1.06	26				167	543	36	185				77	200	0.77			
		2	SR 2620 - EVELYN DR	SR 2516 HODGE RD TO SR 2622 - DEARING DR	1	2	NO	NO	0.177	20	17	0.35	9				84	181	12	25				26	70	0.26			
		3	SR 2621 - E MERLIN DR	SR 2516 - HODGE RD TO SR 2622 - DEARING DR	1	2	NO	NO	0.267	20	26	0.53	13				84	273	18	203				38	100	0.39			
		4	SR 2622 - DEARING DR	LYNNWOOD RD TO SR 2619 - LYNNWOOD ESTATES DR	1	2	NO	NO	0.222	20	22	0.44	11				84	227	15	40				32	90	0.32			
		5	SR 2659 - W MERLIN DR	SR 2516 - HODGE RD TO SR 2661 - COLCHESTER DR	1	2	NO	NO	0.076	20	8	0.15	4				84	78	5	12				11	30	0.11			
		6	SR 2660 - MANOR PL	SR 2661 - COLCHESTER DR TO CUL-DE-SAC	1	2	NO	NO	0.049	20	5	0.10	2					80	5	10				7	20	0.07			
		7	SR 2661 - COLCHESTER DR	SR 4103 - KINGSTON RD TO SR 4102 - WELLINGTON DR	1	2	NO	NO	0.504	20	50	1.01	25					515	35	210		2		73	190	0.73			
		8	SR 2662 - BARWICK WAY	SR 2661 - COLCHESTER DR TO SR 2661 - COLCHESTER DR	1	2	NO	NO	0.269	20	26	0.54	14					275	18	22		5		39	100	0.39			
		9	SR 4102 - WELLINGTON DR	SR 4103 - KINGSTON RD TO SR 2661 - COLCHESTER DR	1	2	NO	NO	0.382	20	38	0.76	19					391	26	42		4		55	140	0.55			
		10	SR 4103 - KINGSTON RD	SR 2662 - BARWICK WAY TO CUL-DE-SAC	1	2	NO	NO	0.296	20	29	0.59	15					329	22	65		3		43	110	0.43			
		11	SR 4104 - BOLAND WAY	SR 4102 - WELLINGTON DR TO END MAINT	1	2	NO	NO	0.041	20	4	0.08	2					42	3	13		1		5	20	0.05			
		12	SR 4188 - DIANNE ST	SR 2516 - HODGE RD TO END MAINT	1	2	NO	NO	0.246	20	24	0.49	12				84	252	17	25				35	90	0.35			
		13	SR 4253 - NEUSE CROSSING DR	SR 2224 - MITCHELL MILL RD TO END MAINT	2	2	NO	NO	0.663	30					11,669			1,015	68	25									
		14	SR 4254 - SINGLELEAF LN	SR 2224 - MITCHELL MILL RD TO SR 4253 - NEUSE CROSSING DR	2	2	NO	NO	0.428	30					7,533			655	44	10	10								
		15	SR 4254 - SINGLELEAF LN	SR 4253 - NEUSE CROSSING DR TO CUL-DE-SAC	1	2	NO	NO	0.26	18	26	0.52	13					267	18	17		5	5	38	100	0.38			
		16	SR 4255 - RED BAY DR	SR 4253 - NEUSE CROSSING DR TO SR 4257 - SCOTCH DR	1	2	NO	NO	0.158	18	15	0.32	7				75	146	10	10		5		23	60	0.23			
		17	SR 4256 - TUNAS ST	SR 4254 - SINGLELEAF LN TO SR 4253 - NEUSE CROSSING DR	2	2	NO	NO	0.252	22					3,253			283	19	10	20		4						
		18	SR 4256 - TUNAS ST	SR 4253 - NEUSE CROSSING DR TO SR 4257 - SCOTCH DR	1	2	NO	NO	0.119	18	12	0.24	6				75	110	7	10		3		17	50	0.17			
		19	SR 4257 - SCOTCH DR	SR 4253 - NEUSE CROSSING DR TO SR 4254 - SINGLELEAF LN	1	2	NO	NO	0.222	18	22	0.44	11				75	204	14	12		6	8	32	90	0.32			
		20	SR 4258 - NORWAY CT	SR 4256 - TUNAS ST TO CUL-DE-SAC	2	2	NO	NO	0.028	22					664			58	4										
		21	SR 4259 - CADLER CT	SR 4256 - TUNAS ST TO CUL-DE-SAC	2	2	NO	NO	0.026	22					627			54	4										
		22	SR 4260 - CULATER CT	SR 4256 - TUNAS ST TO CUL-DE-SAC	2	2	NO	NO	0.051	22					945			82	6	15		1							
		23	SR 4261 - LIMBER LN	SR 4254 - SINGLELEAF LN TO SR 4288 - DECHART LN	2	2	NO	NO	0.19	22					2,452			214	14	10									
		24	SR 4262 - RUBRA CIR	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	NO	NO	0.02	38					609			53	4										
		25	SR 4285 - GLACKENS CT	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	NO	NO	0.061	22					1,088			95	6				1						
		26	SR 4286 - HOPPER ST	SR 4254 - SINGLELEAF LN TO END MAINT	2	2	NO	NO	0.061	22					787			69	5										
		27	SR 4287 - EPPERLY CT	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	NO	NO	0.165	22					2,716			236	16	10				1					
		28	SR 4288 - DECHART LN	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	NO	NO	0.212	22					3,034			264	18	10									
		29	SR 4289 - TURNBULL CT	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	NO	NO	0.023	22					568			49	3										
		30	SR 4290 - KROLL CT	SR 4288 - DECHART LN TO CUL-DE-SAC	2	2	NO	NO	0.032	22					708			61	4										
		31	SR 4291 - TARBELL CT	SR 4288 - DECHART LN TO CUL-DE-SAC	2	2	NO	NO	0.03	22					569			49	3	10									
		32	SR 4621 - SPEIGHT CIR	SR 4622 - DAINGERFIELD DR TO SR 4622 - DAINGERFIELD DR	2	2	NO	NO	0.386	22					4,982			434	29					2					
		33	SR 4622 - DAINGERFIELD DR	SR 4914 - DEWING DR TO CUL-DE-SAC	2	2	NO	NO	0.661	23					8,919			777	52	10				1					
		34	SR 4623 - COPPEDGE LN	SR 4621 - SPEIGHT CIR TO CUL-DE-SAC	2	2	NO	NO	0.04	22					843			73	5										
		35	SR 4624 - NUNAMAKER CT	SR 4621 - SPEIGHT CIR TO CUL-DE-SAC	2	2	NO	NO	0.026	22					662			58	4										
		36	SR 4625 - FOLINSBEE CT	SR 4621 - SPEIGHT CIR TO CUL-DE-SAC	2	2	NO	NO	0.024	32					669			58	4										
		37	SR 4657 - TWATCHMAN DR	CUL-DE-SAC TO CUL-DE-SAC	2	2	NO	NO	0.267	22					4,113			358	24					5					
		38	SR 4658 - DUVENECK DR	CUL-DE-SAC TO END MAINT	2	2	NO	NO	0.114	23					1,832			159	11	10									

2021CPT.05.11.20921.1 Wake

SUMMARY OF QUANTITIES

PROJECT NO COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	0264000000-E	1220000000-E	1260000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	2752000000-E	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	6117000000-N	7444000000-E	
										BORROW	SHOULDER GRADING	INCIDENTAL STONE BASE	AGGREGATE SHOULDER BORROW	1 1/2" MILLING	0" TO 1.5" MILLING	0" TO 1" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	GENERIC PAVING ITEM, RMV AND REPLACE 2' 6" C&G	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	INDUCTIVE LOOP SAWCUT
										MI	FT	CY	SMI	TONS	TON	SY	SY	SY	SY	TONS	TON	TONS	LF	EA	EA	LF	LF	AC
2021CPT.05.11.20921.1 Wake	39	SR 4659 - BEAUX CT	SR 4657 - TWATCHMAN DR TO CUL-DE-SAC	2	2	NO	NO	0.14	22					2,065			180	12				2						
	40	SR 4660 - CRANE CT	SR 4659 - BEAUX CT TO CUL-DE-SAC	2	2	NO	NO	0.031	23					716			62	4				2						
	41	SR 4661 - RIBCOWSKI CT	SR 4622 - DAINGERFIELD DR TO CUL-DE-SAC	2	2	NO	NO	0.278	22					3,886			338	23	10		1	3						
	42	SR 4662 - SITZMAN CT	SR 4661 - RIBCOWSKI CT TO CUL-DE-SAC	2	2	NO	NO	0.039	22					503			44	3	10									
	43	SR 4663 - POTTHAST CT	SR 4622 - DAINGERFIELD DR TO END MAINT	2	2	NO	NO	0.105	22					1,355			118	8					1					
	44	SR 4914 - DEWING DR	CUL-DE-SAC TO CUL-DE-SAC	2	2	NO	NO	0.556	22					9,148			796	53	20				4					
	45	SR 4915 - KENSSETT WAY	CUL-DE-SAC TO CUL-DE-SAC	2	2	NO	NO	0.142	22					2,471			251	17	10									
	46	SR 4916 - BOREN CT	SR 4914 - DEWING DR TO CUL-DE-SAC	2	2	NO	NO	0.12	27					2,214			193	13										
	47	SR 4917 - PRITCHARD CT	SR 4914 - DEWING DR TO END MAINT	2	2	NO	NO	0.1	30					1,760			153	10			2	1						
	48	SR 4918 - BURCHFIELD CT	SR 4917 - PRITCHARD CT TO END MAINT	2	2	NO	NO	0.029	27					737			64	4	10									
	49	SR 5270 - BETHLEHEM RD	SR 1007 - POOLE RD TO SR 2511 - GRASSHOPPER RD	1	2	NO	NO	0.6	20		60	1.20	30				700	676	45	48			87	220	0.87		198	
	50	SR 2368 - GREEN PACE RD	SR 2320 - PROCTOR ST TO NC 97 - W GANNON AVE	1	2	NO	NO	2.644	20		212	5.29	133	98	96		1,795	2,965	199	103			308	770	3.08	1		
	51	SR 2369 - WORTH HINTON RD	SR 2368 - GREEN PACE RD TO NC 97	1	2	NO	NO	1.066	20		64	2.13	54	79			123	1,145	77	250			93	240	0.93	1		
	52	SR 4920 - FOREST MILL CIR	SR 4253 - NEUSE CROSSING DR TO SR 4920 - FOREST MILL CIR	2	2	NO	NO	0.37	24					5,334			464	31	20									
53	SR 4921 - OLD MILL RIDGE CT	SR 4920 - FOREST MILL CIR TO CUL-DE-SAC	2	2	NO	NO	0.03	24					733			64	4	10										
54	SR 4922 - MILL BLUFF CT	SR 4920 - FOREST MILL CIR TO CUL-DE-SAC	2	2	NO	NO	0.03	24					733			64	4	10										
TOTAL FOR PROJ NO. 2021CPT.05.11.20921.1													90,897	96	2,710	3,430	16,644	1,115	1,522	30	38	40	1,039	2,690	10.40	2	198	
2021CPT.05.11.20922.1 Wake	55	SR 2228 - OLD CREWS RD	SR 2049 - FORRESTVILLE RD TO SR 2215 - BUFFALO RD	3	2	NO	NO	1.893	20			82			2,710	112	1,633	109	220									
	56	SR 2230 - FIXIT SHOP RD	SR 1003 - ROLESVILLE RD TO SR 2224 - MITCHELL MILL RD	3	2	NO	NO	0.889	20			45				112	605	41	25									
	57	SR 2307 - LASSITER RD	SR 2224 - MITCHELL MILL RD TO SR 2305 - QUARRY RD	3	2	NO	NO	0.997	20			50				290	689	46	63									
	58	SR 2360 - JAKE MAY DR	SR 2358 - LAKE GLAD RD TO SR 1007 - POOLE RD	3	2	NO	NO	1.245	20			63				112	847	57	55									
	59	SR 2506 - MAJOR SLADE RD	SR 1007 - POOLE RD TO SR 2233 - SMITHFIELD RD	3	2	NO	NO	0.777	20			39				223	529	35	10								198	
	60	SR 2507 - TURNIPSEED RD	BRIDGE TO JOHNSTON CO	3	2	NO	NO	1.288	20			65				112	876	59	10									
	61	SR 2512 - OLD FERRELL RD	PVMT CHG TO SR 2233 - SMITHFIELD RD	3	2	NO	NO	0.502	20			29				112	342	23	64									
	62	SR 4380 - STRICKLAND FARM RD	SR 2049 - FORESTVILLE RD TO END MAINT	3	2	NO	NO	0.311	20			16				56	212	14	39									
63	SR 5237 - OLD FERRELL RD	SR 5270 - BETHLEHEM RD TO DEAD END	3	2	NO	NO	0.199	20			10				50	122	8	38										
64	SR 5238 - OLD FERRELL RD	SR 2512 - CROSS CUT PLACE TO DEAD END	3	2	NO	NO	0.187	20			10				56	127	9	10										
TOTAL FOR PROJ NO. 2021CPT.05.11.20922.1												409		2,710	1,235	5,982	401	534								198		
GRAND TOTAL												815	177	90,897	96	2,710	4,665	22,626	1,516	2,056	30	38	40	1,039	2,690	10.40	2	396

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.11.20921.1, etc.	13	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		4413000000-E WORK ZONE ADVANCE/GE NERAL WARNING SIGNING	4457000000-N TEMPORARY TRAFFIC CONTROL	4685000000-E		4695000000-E	4700000000-E	4720000000-E	4725000000-E		4770000000-E		4850000000-E	4890000000-E					
							MI	FT			SF	LS	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	12" X 90 M YELLOW THERMO	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
		1	SR 2619 - LYNNWOOD ESTATES DR	LYNNWOOD RD TO SR 2516 - HODGE RD	1	2	0.531	20	60	0.02																
		2	SR 2620 - EVELYN DR	SR 2516 HODGE RD TO SR 2622 - DEARING DR	1	2	0.177	20	20	0.01																
		3	SR 2621 - E MERLIN DR	SR 2516 - HODGE RD TO SR 2622 - DEARING DR	1	2	0.267	20	30	0.01																
		4	SR 2622 - DEARING DR	LYNNWOOD RD TO SR 2619 - LYNNWOOD ESTATES DR	1	2	0.222	20	25	0.01																
		5	SR 2659 - W MERLIN DR	SR 2516 - HODGE RD TO SR 2661 - COLCHESTER DR	1	2	0.076	20	9	0.01																
		6	SR 2660 - MANOR PL	SR 2661 - COLCHESTER DR TO CUL-DE-SAC	1	2	0.049	20	6	0.01																
		7	SR 2661 - COLCHESTER DR	SR 4103 - KINGSTON RD TO SR 4102 - WELLINGTON DR	1	2	0.504	20	57	0.02																
		8	SR 2662 - BARWICK WAY	SR 2661 - COLCHESTER DR TO SR 2661 - COLCHESTER DR	1	2	0.269	20	31	0.01																
		9	SR 4102 - WELLINGTON DR	SR 4103 - KINGSTON RD TO SR 2661 - COLCHESTER DR	1	2	0.382	20	43	0.01																
		10	SR 4103 - KINGSTON RD	SR 2662 - BARWICK WAY TO CUL-DE-SAC	1	2	0.296	20	34	0.01																
		11	SR 4104 - BOLAND WAY	SR 4102 - WELLINGTON DR TO END MAINT	1	2	0.041	20	5	0.01																
		12	SR 4188 - DIANNE ST	SR 2516 - HODGE RD TO END MAINT	1	2	0.246	20	28	0.01																
		13	SR 4253 - NEUSE CROSSING DR	SR 2224 - MITCHELL MILL RD TO END MAINT	2	2	0.663	30	75	0.02																
		14	SR 4254 - SINGLELEAF LN	SR 2224 - MITCHELL MILL RD TO SR 4253 - NEUSE CROSSING DR	2	2	0.428	30	48	0.02																
		15	SR 4254 - SINGLELEAF LN	SR 4253 - NEUSE CROSSING DR TO CUL-DE-SAC	1	2	0.26	18	30	0.01																
		16	SR 4255 - RED BAY DR	SR 4253 - NEUSE CROSSING DR TO SR 4257 - SCOTCH DR	1	2	0.158	18	18	0.01																
		17	SR 4256 - TUNAS ST	SR 4254 - SINGLELEAF LN TO SR 4253 - NEUSE CROSSING DR	2	2	0.252	22	29	0.01																
		18	SR 4256 - TUNAS ST	SR 4253 - NEUSE CROSSING DR TO SR 4257 - SCOTCH DR	1	2	0.119	18	14	0.01																
		19	SR 4257 - SCOTCH DR	SR 4253 - NEUSE CROSSING DR TO SR 4254 - SINGLELEAF LN	1	2	0.222	18	25	0.01																
		20	SR 4258 - NORWAY CT	SR 4256 - TUNAS ST TO CUL-DE-SAC	2	2	0.028	22	4	0.01																
		21	SR 4259 - CADLER CT	SR 4256 - TUNAS ST TO CUL-DE-SAC	2	2	0.026	22	3	0.01																
		22	SR 4260 - CULATER CT	SR 4256 - TUNAS ST TO CUL-DE-SAC	2	2	0.051	22	6	0.01																
		23	SR 4261 - LIMBER LN	SR 4254 - SINGLELEAF LN TO SR 4288 - DECHART LN	2	2	0.19	22	22	0.01																
		24	SR 4262 - RUBRA CIR	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	0.02	38	3	0.01																
		25	SR 4285 - GLACKENS CT	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	0.061	22	7	0.01																
		26	SR 4286 - HOPPER ST	SR 4254 - SINGLELEAF LN TO END MAINT	2	2	0.061	22	7	0.01																
		27	SR 4287 - EPPERLY CT	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	0.165	22	19	0.01																
		28	SR 4288 - DECHART LN	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	0.212	22	24	0.01																
		29	SR 4289 - TURNBULL CT	SR 4254 - SINGLELEAF LN TO CUL-DE-SAC	2	2	0.023	22	3	0.01																
		30	SR 4290 - KROLL CT	SR 4288 - DECHART LN TO CUL-DE-SAC	2	2	0.032	22	4	0.01																
		31	SR 4291 - TARBELL CT	SR 4288 - DECHART LN TO CUL-DE-SAC	2	2	0.03	22	4	0.01																
		32	SR 4621 - SPEIGHT CIR	SR 4622 - DAINGERFIELD DR TO SR 4622 - DAINGERFIELD DR	2	2	0.386	22	44	0.01																
		33	SR 4622 - DAINGERFIELD DR	SR 4914 - DEWING DR TO CUL-DE-SAC	2	2	0.661	23	75	0.02																
		34	SR 4623 - COPPEDGE LN	SR 4621 - SPEIGHT CIR TO CUL-DE-SAC	2	2	0.04	22	5	0.01																
		35	SR 4624 - NUNAMAKER CT	SR 4621 - SPEIGHT CIR TO CUL-DE-SAC	2	2	0.026	22	3	0.01																
		36	SR 4625 - FOLINSBEE CT	SR 4621 - SPEIGHT CIR TO CUL-DE-SAC	2	2	0.024	32	3	0.01																

2021CPT.05.11.20921.1

Wake

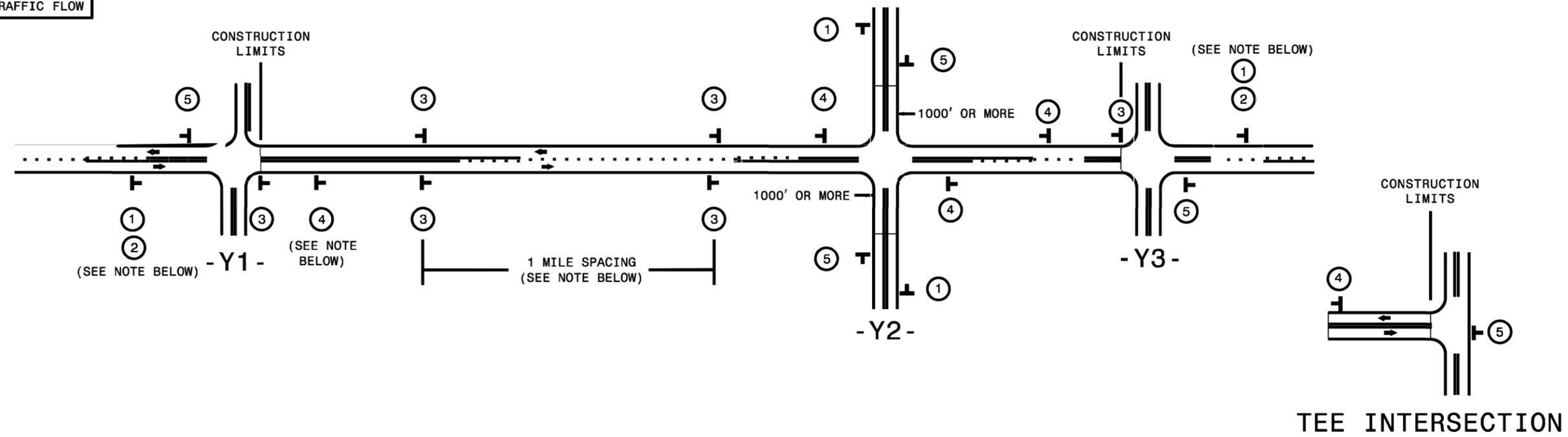
PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.11.20921.1, etc.	14	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		4413000000-E		4457000000-N		4685000000-E		4695000000-E		4700000000-E		4720000000-E			4725000000-E		4770000000-E		4850000000-E		4890000000-E					
							MI	FT	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	12" X 90 M YELLOW THERMO	THERMO MSG ONLY 90 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	4" YELLOW COLD APPLIED PLASTIC, TYPE II	4" WHITE COLD APPLIED PLASTIC, TYPE II	4" LINE REMOVAL	24" X 90 M WHITE THERMO												
									SF	LS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	LF												
2021CPT.05.11.20921.1	Wake	37	SR 4657 - TWATCHMAN DR	CUL-DE-SAC TO CUL-DE-SAC	2	2	0.267	22	30	0.01																							
		38	SR 4658 - DUVENECK DR	CUL-DE-SAC TO END MAINT	2	2	0.114	23	13	0.01																							
		39	SR 4659 - BEAUX CT	SR 4657 - TWATCHMAN DR TO CUL-DE-SAC	2	2	0.14	22	16	0.01																							
		40	SR 4660 - CRANE CT	SR 4659 - BEAUX CT TO CUL-DE-SAC	2	2	0.031	23	4	0.01																							
		41	SR 4661 - RIBCOWSKI CT	SR 4622 - DAINGERFIELD DR TO CUL-DE-SAC	2	2	0.278	22	32	0.01																							
		42	SR 4662 - SITZMAN CT	SR 4661 - RIBCOWSKI CT TO CUL-DE-SAC	2	2	0.039	22	5	0.01																							
		43	SR 4663 - POTTHAST CT	SR 4622 - DAINGERFIELD DR TO END MAINT	2	2	0.105	22	12	0.01																							
		44	SR 4914 - DEWING DR	CUL-DE-SAC TO CUL-DE-SAC	2	2	0.556	22	63	0.02																							
		45	SR 4915 - KENSSETT WAY	CUL-DE-SAC TO CUL-DE-SAC	2	2	0.142	22	16	0.01																							
		46	SR 4916 - BOREN CT	SR 4914 - DEWING DR TO CUL-DE-SAC	2	2	0.12	27	14	0.01																							
		47	SR 4917 - PRITCHARD CT	SR 4914 - DEWING DR TO END MAINT	2	2	0.1	30	12	0.01																							
		48	SR 4918 - BURCHFIELD CT	SR 4917 - PRITCHARD CT TO END MAINT	2	2	0.029	27	4	0.01																							
		49	SR 5270 - BETHLEHEM RD	SR 1007 - POOLE RD TO SR 2511 - GRASSHOPPER RD	1	2	0.6	20	68	0.03		6,336	4,889																			56	
		50	SR 2368 - GREEN PACE RD	SR 2320 - PROCTOR ST TO NC 97 - W GANNON AVE	1	2	2.644	20	297	0.14		26,236	21,575											770	770	1,540							
		51	SR 2369 - WORTH HINTON RD	SR 2368 - GREEN PACE RD TO NC 97	1	2	1.066	20	120	0.05		11,256	8,916																				
		52	SR 4920 - FOREST MILL CIR	SR 4253 - NEUSE CROSSING DR TO SR 4920 - FOREST MILL CIR	2	2	0.37	24	42	0.01																							
		53	SR 4921 - OLD MILL RIDGE CT	SR 4920 - FOREST MILL CIR TO CUL-DE-SAC	2	2	0.03	24	4	0.01																							
		54	SR 4922 - MILL BLUFF CT	SR 4920 - FOREST MILL CIR TO CUL-DE-SAC	2	2	0.03	24	4	0.01																							
		TOTAL FOR PROJ NO. 2021CPT.05.11.20921.1				13.859		1,579	0.79	43,828	35,380											770	770	1,540				56					
										79,208												1,540											
2021CPT.05.11.20922.1	Wake	55	SR 2228 - OLD CREWS RD	SR 2049 - FORRESTVILLE RD TO SR 2215 - BUFFALO RD	3	2	1.893	20	212	0.03	19,022	19,766			475	8	2	4															
		56	SR 2230 - FIXIT SHOP RD	SR 1003 - ROLESVILLE RD TO SR 2224 - MITCHELL MILL RD	3	2	0.889	20	100	0.02	9,566	9,018																					
		57	SR 2307 - LASSITER RD	SR 2224 - MITCHELL MILL RD TO SR 2305 - QUARRY RD	3	2	0.997	20	112	0.01	10,728	9,983																					
		58	SR 2360 - JAKE MAY DR	SR 2358 - LAKE GLAD RD TO SR 1007 - POOLE RD	3	2	1.245	20	140	0.04	13,396	1,290	80																				
		59	SR 2506 - MAJOR SLADE RD	SR 1007 - POOLE RD TO SR 2233 - SMITHFIELD RD	3	2	0.777	20	88	0.02	8,361	8,206																					
		60	SR 2507 - TURNIPSEED RD	BRIDGE TO JOHNSTON CO	3	2	1.288	20	145	0.04	13,859	13,602																					
		61	SR 2512 - OLD FERRELL RD	PVMT CHG TO SR 2233 - SMITHFIELD RD	3	2	0.502	20	65	0.02	5,402	5,302																					
		62	SR 4380 - STRICKLAND FARM RD	SR 2049 - FORRESTVILLE RD TO END MAINT	3	2	0.311	20	35	0.01	3,284	3,284																					
		63	SR 5237 - OLD FERRELL RD	SR 5270 - BETHLEHEM RD TO DEAD END	3	2	0.199	20	23	0.01	2,141	1,314																					
		64	SR 5238 - OLD FERRELL RD	SR 2512 - CROSS CUT PLACE TO DEAD END	3	2	0.187	20	21	0.01	2,012	1,974																					20
		TOTAL FOR PROJ NO. 2021CPT.05.11.20922.1				8.288		941	0.21	87,771	73,739	80	475	8	2	4														20			
										161,510												6											
GRAND TOTAL								22.147	2,520	1.00	131,599	109,119	80	475	8	2	4	770	770	1,540	76												
										240,718												1,540											

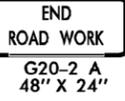
SIGNING FOR RESURFACING PROJECTS

LEGEND
 STATIONARY SIGN
 DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> LESS THAN 1000' OF RESURFACING ALONG -Y- LINE SUBDIVISION ROADS DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;">  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	②	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	③	 SP 13107 48" X 48"	<ul style="list-style-type: none"> PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
	④	 SP 13106 48" X 48"	<ul style="list-style-type: none"> THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE. 	
⑤	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.		

THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

MAPS LESS THAN 2 MILES

FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

\$\$\$\$SYTIME\$\$\$\$
 \$\$\$DCN\$\$\$\$
 \$\$\$USERNAME\$\$\$\$

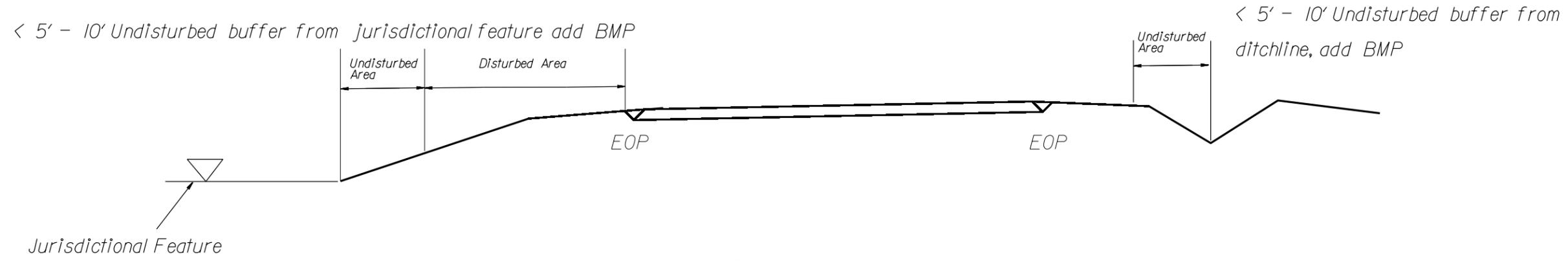
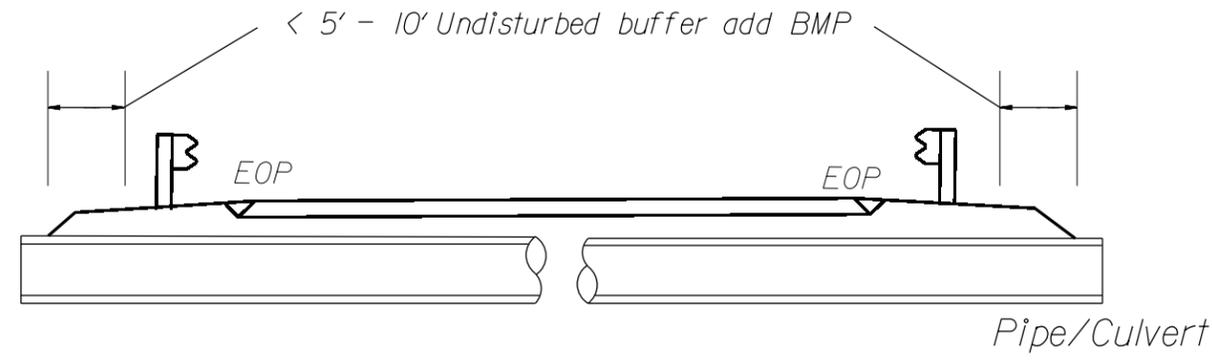
**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

SOIL STABILIZATION TIMEFRAMES

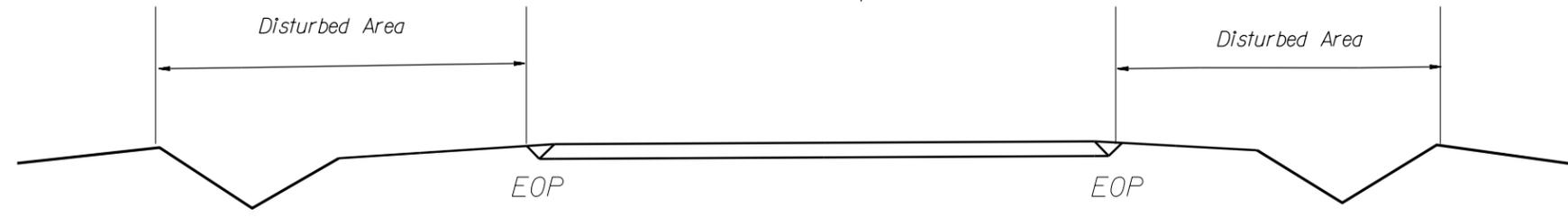
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.
 BMP Options: Wattle, Silt Fence or Hardened Aggregate.

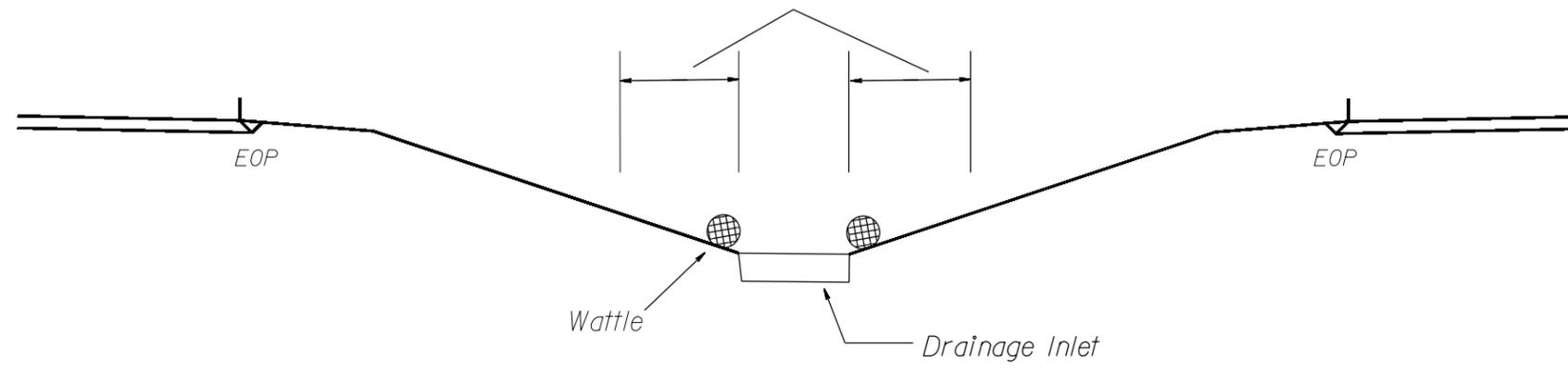
EROSION CONTROL DETAIL



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

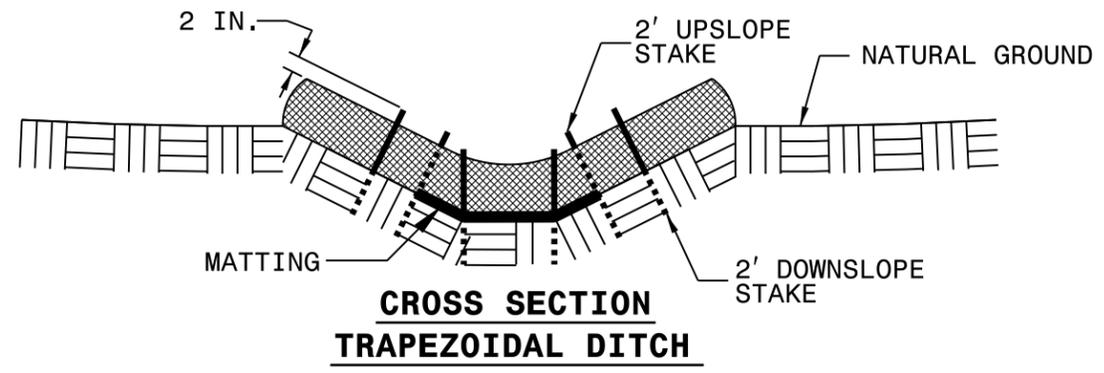
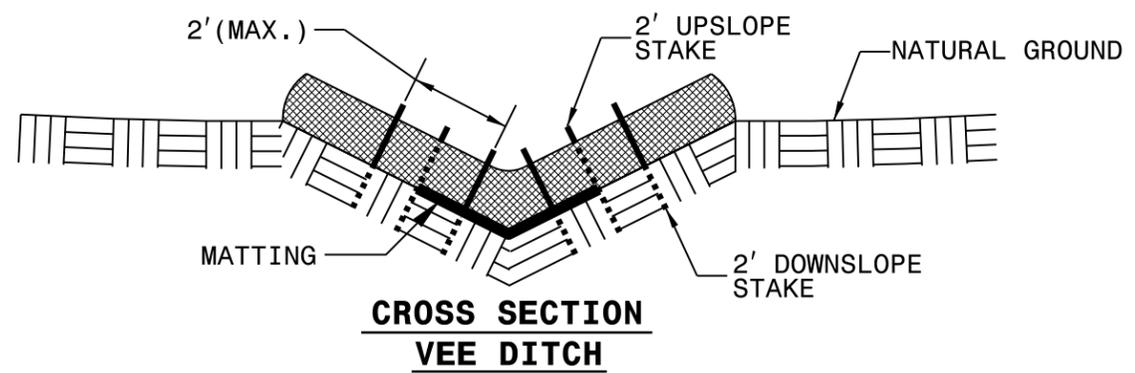
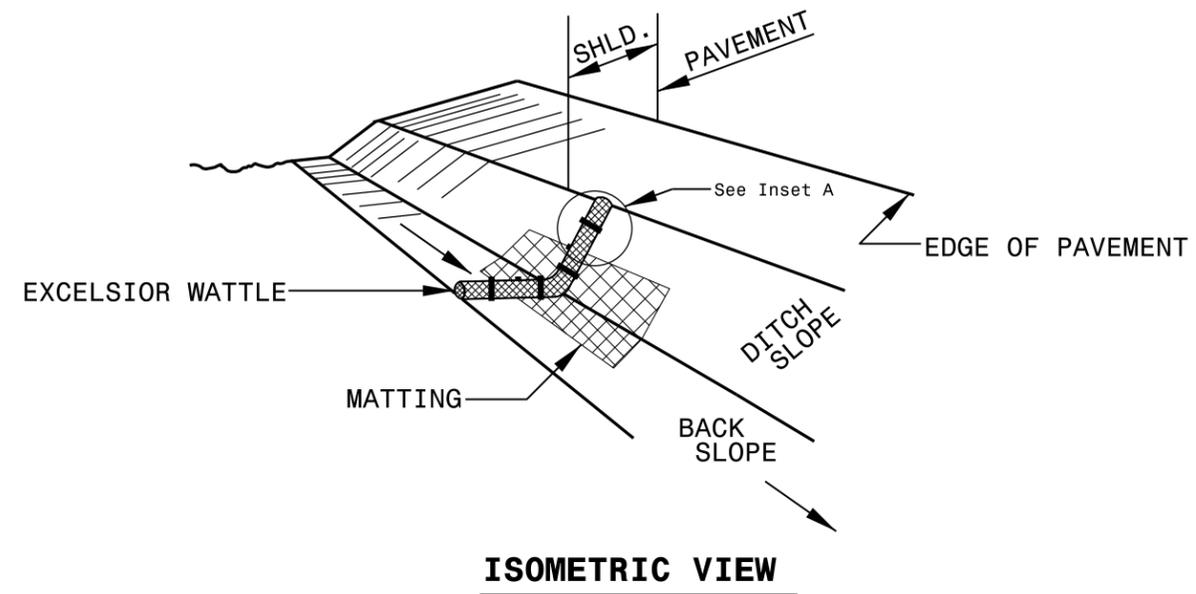


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

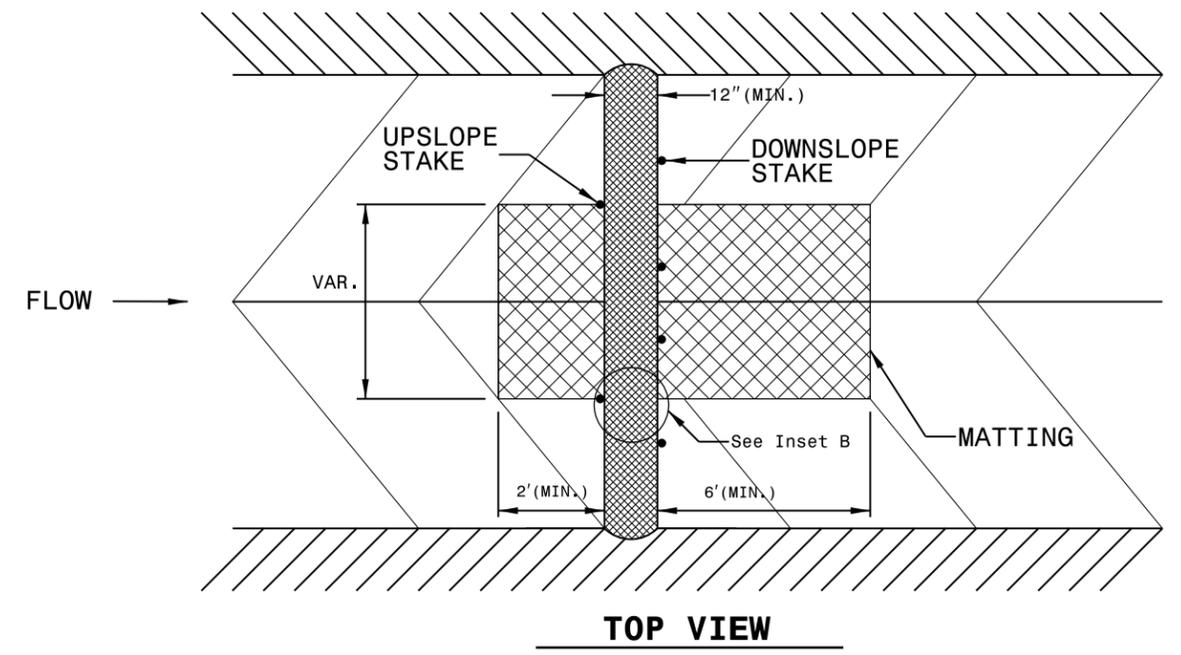
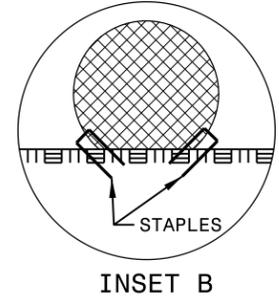
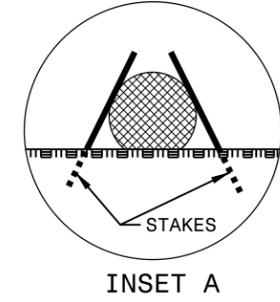
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

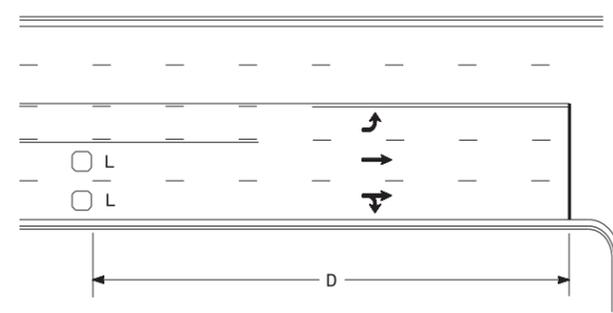
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

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



High Speed Detection (≥40 mph)

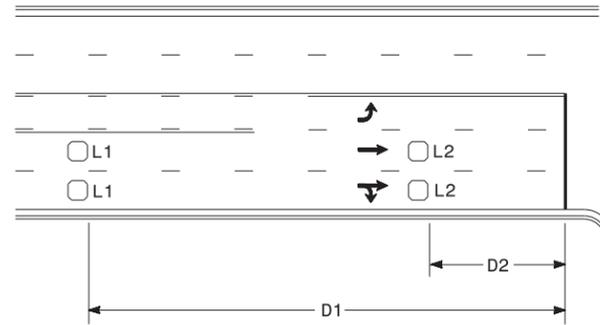


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR

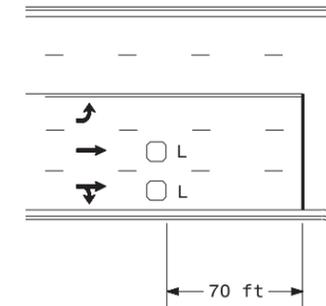


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series
L2 = 6ft X 6ft
Wired in series

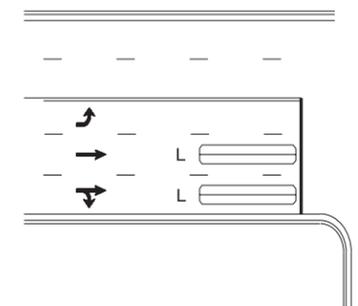
"Stretch" Operation

Low Speed Detection (≤35 mph)



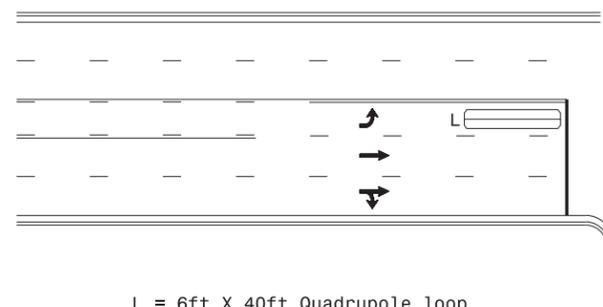
L = 6ft X 6ft
Wired in series

OR



L = 6ft X 40ft
Quadrupole loop, wired separately

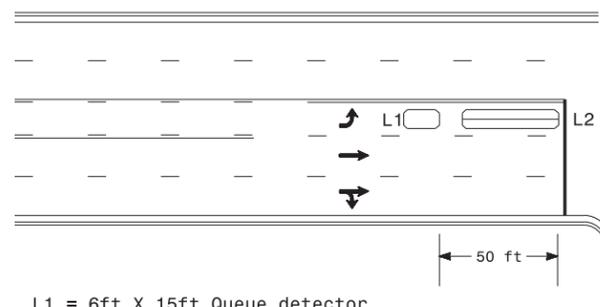
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

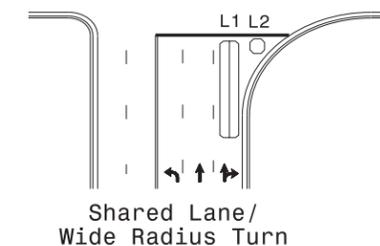
OR



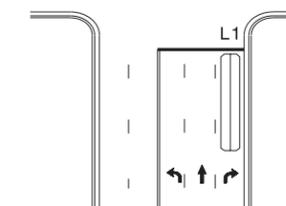
L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection

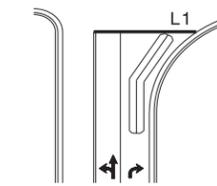
Right Turn Lane Detection



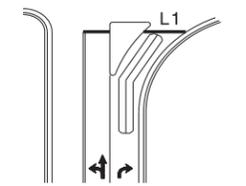
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

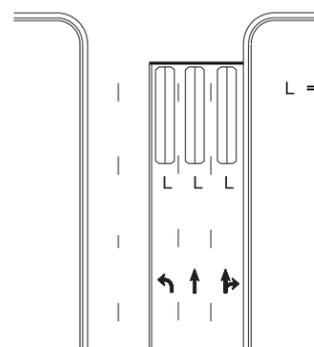


Wide Radius Turn



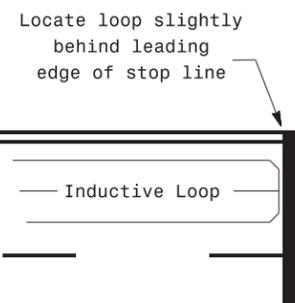
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Note:
Loop may be located in advance of stop line under any of the following conditions:
1) stop line is greater than 15' from edge of intersecting roadway
2) loop detects a permissive or protected/permissive left turn
3) for an exclusive right turn lane

Recommended Number of Turns

Single 6' X 6' loop
(when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' Loops:
Lead-in < 150', use 2 turns
Lead-in > 150', use 3 turns

750 N. Greenfield Pkwy, Garner, NC 27529

Prepared In the Offices of:

Typical Signal Loop Locations	
PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:
SCALE: N/A	REVISIONS: INIT. DATE

9/8/2020
DATE

SIG. INVENTORY NO.