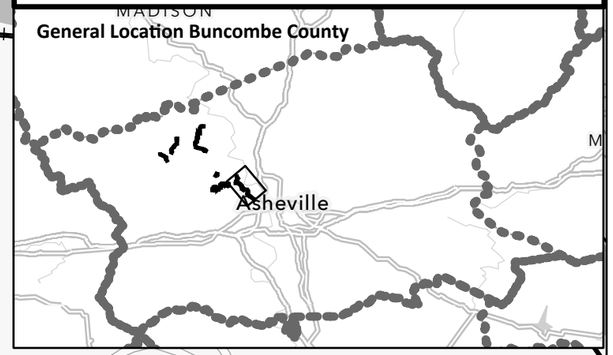
DM00521 WBS - 2027CPT.13.05.20112 Sheet 1



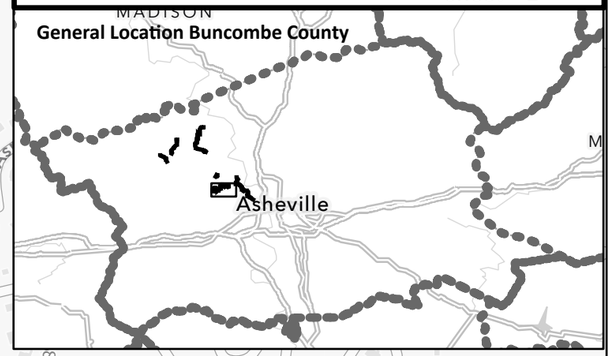
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
1	SR 1349 (ADAMS HILL ROAD)	SR 1353 (RIVERVIEW CHURCH ROAD)	SR 1332 (NORTH LOUISIANA AVENUE)	0.89
2	SR 1353 (RIVERVIEW CHURCH ROAD)	SR 1357 (GORMAN BRIDGE ROAD)	SR 1349 (ADAMS HILL ROAD)	0.53
3	SR 1357 (GORMAN BRIDGE ROAD)	SR 1353 (RIVERVIEW CHURCH ROAD)	SR 1002 (OLD LEICESTER HIGHWAY)	0.75
4	SR 1367 (OLIVETTE ROAD)	SR 1002 (OLD LEICESTER HIGHWAY)	SR 1645 (MACEDONIA ROAD)	0.67
13	SR 1655 (OWENBY ROAD)	SR 1367 (OLIVETTE ROAD)	SR 1659 (CHURCH ROAD)	0.02
14	SR 1659 (OWENBY ROAD/ CHURCH ROAD)	SR 1002 (OLD LEICESTER HIGHWAY)	SR 1655 (OWENBY ROAD)	0.36

0 0.25 0.5 Miles

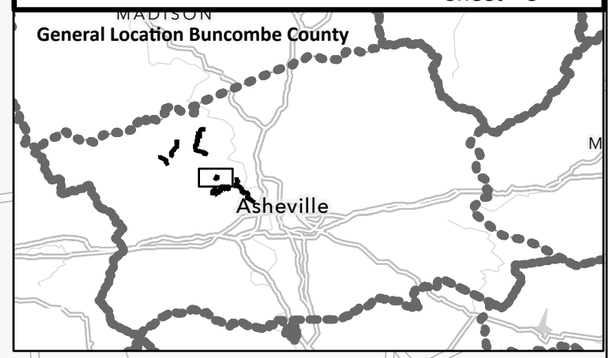
N

DM00521 WBS - 2027CPT.13.05.20112 Sheet 2



MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
5	SR 1456 (KEYSTONE,CARDINAL,HOLLY HILL DRIVE)	SR 1369 MOUNT CARMEL ROAD)	SR 1374 (ODONALD ROAD)	1.09
6	SR 1457 (HOLLY HILL COURT)	SR 1456 (HOLLY HILL DRIVE)	CUL DE SAC	0.1
15	SR 1803 (TIPPERARY DRIVE)	SR 1368 (LEES CREEK ROAD)	CUL DE SAC	0.53
16	SR 1806 (WATERFORD COURT)	SR 1805 (KILKENNY DRIVE)	CUL DE SAC	0.16
17	SR 1808 (FIELDCREST CIRCLE)	SR 1456 (HOLLY HILL DRIVE)	SR 1808 (FIELDCREST PLACE/CIRCLE	0.49
18	SR 1813 (KEYSTONE DRIVE EXTENSION)	SR 1456 (KEYSTONE DRIVE)	END OF MAINTENANCE	0.19
19	SR 1814 (WONDU VIEW COURT)	SR 1813 (KEYSTONE DRIVE EXTENSION)	END OF MAINTENANCE	0.08
20	SR 1825 (CARDINAL DRIVE)	SR 1456 (KEYSTONE DRIVE)	SR 1456 (HOLLY HILL DRIVE)	0.35
21	SR 1853 (DAVLYN DRIVE)	SR 1369 (MOUNT CARMEL ROAD)	SR 1803 (TIPPERARY DRIVE)	0.07
22	SR 1854 (SCOTTLYNN DRIVE)	SR 1113 (BYRD ROAD)	SR 1803 (TIPPERARY DRIVE)	0.18
23	SR 1862 (SCOTTLYNN COURT)	SR 1854 (SCOTTLYNN DRIVE)	CUL DE SAC	0.04
24	SR 1877 (TIPPERARY/MOUNT CARMEL DRIVE)	SR 1854 (SCOTTLYNN DRIVE)	END OF STATE MAINTENANCE	0.24
25	SR 1880 (FRIENDLY WAY)	SR 1865 (LYNWOOD CIRCLE)	CUL DE SAC	0.18
26	SR 1884 (WESTMONT DRIVE)	SR 1877 (MOUNT CARMEL DRIVE)	CUL DE SAC	0.13
27	SR 1891 (FRIENDLY LANE)	SR 1880 (FRIENDLY WAY)	CUL DE SAC	0.18
28	SR 1892 (FRIENDLY CIRCLE)	CUL DE SAC	SR 1891 (FRIENDLY LANE)	0.05

DM00521 WBS - 2027CPT.13.05.20112 Sheet 3



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

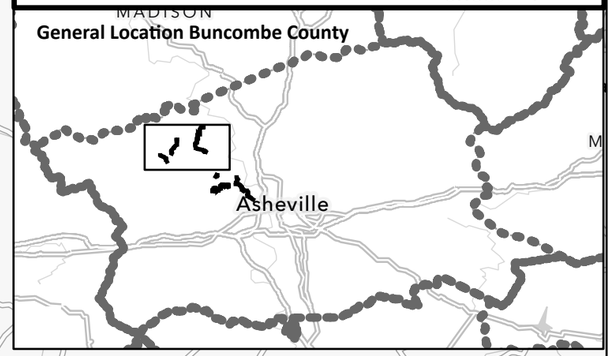
SR-1617
SR-1848
SR-1873
SR-1821
SR-1622
SR-1641
SR-1607
SR-1852
SR-1881
SR-1651
Juno
SR-1376
SR-2179
SR-1506
SR-1505
8
7
SR-1504
SR-1501
SR-1503
SR-1302
SR-1652
SR-1002
SR-1516
SR-1790
SR-1363
SR-1372
SR-1792
SR-1369
SR-1368
SR-1878
SR-1375
SR-1429
SR-1370

0 0.25 0.5 Miles

N

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
7	SR 1505 (LAKEVIEW ACRES DRIVE)	SR 1002 (OLD LEICESTER HIGHWAY)	END OF MAINTENANCE	0.17
8	SR 1506 (SPRINGSIDE DRIVE)	SR 1505 (LAKEVIEW ACRES DRIVE)	CUL DE SAC	0.14

DM00521 WBS - 2027CPT.13.05.20112 Sheet 4



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Bridge 342

Bridge 022

9

10

11

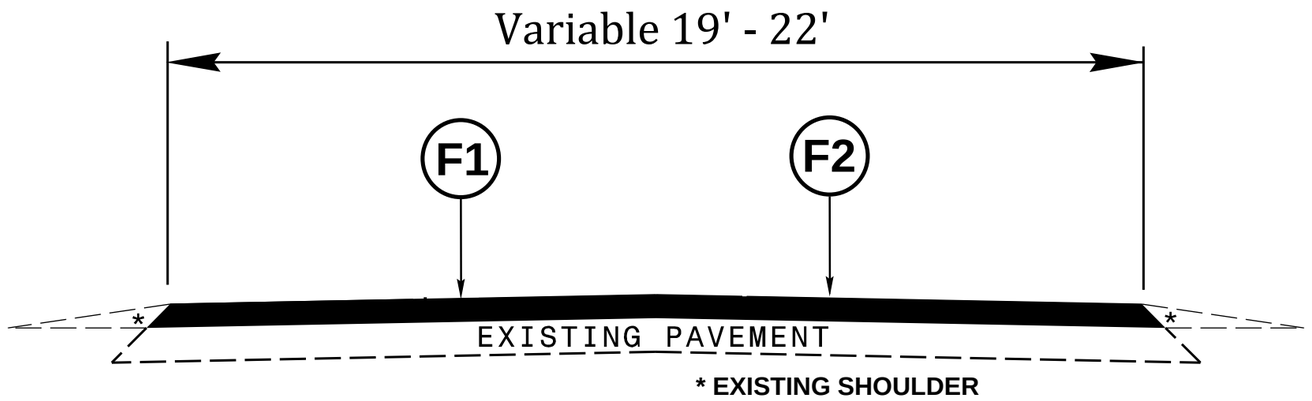
12

MAP_NUMBER	ENGLISH_RO	FROM_DESC	TO_DESC	LENGTH
9	SR 1610 (MARTIN BRANCH ROAD)	SR 1607 (BEAR CREEK ROAD)	SR 1612 (GIBBS ROAD)	1.54
10	SR 1615 (GILBERT ROAD)	NC 63	SR 1608 (TURKEY CREEK ROAD)	0.85
11	SR 1621 (RIDGEVIEW ROAD)	SR 1620 (ALEXANDER ROAD)	SR 1622 (OLD NC 20 HIGHWAY)	1.36
12	SR 1627 TIPTON HILL ROAD	SR 1620 (ALEXANDER ROAD)	SR 1629 (OLD HIGHWAY 20)	1.99

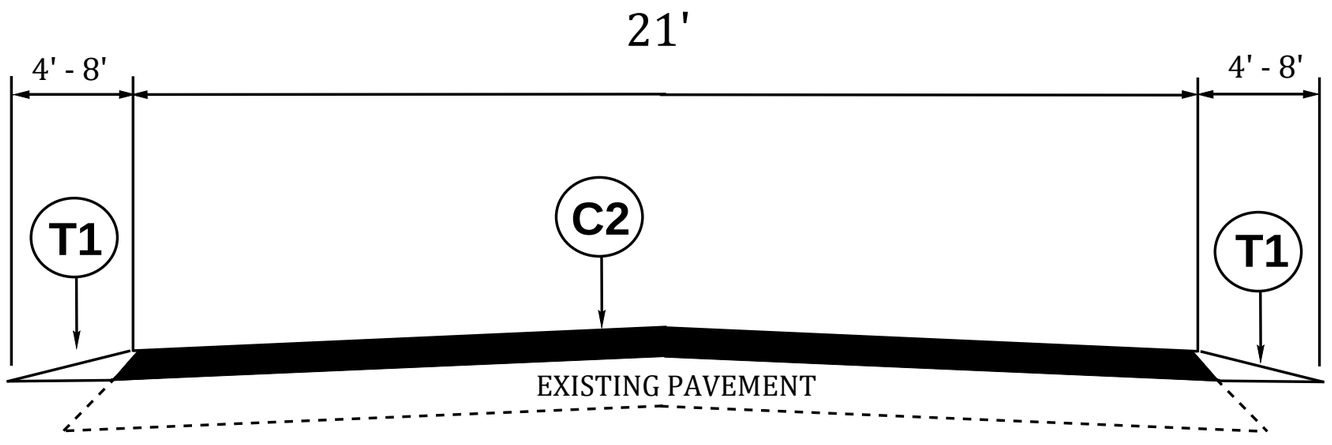
0 0.25 0.5 Miles

N

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	5



TYPICAL SECTION #1

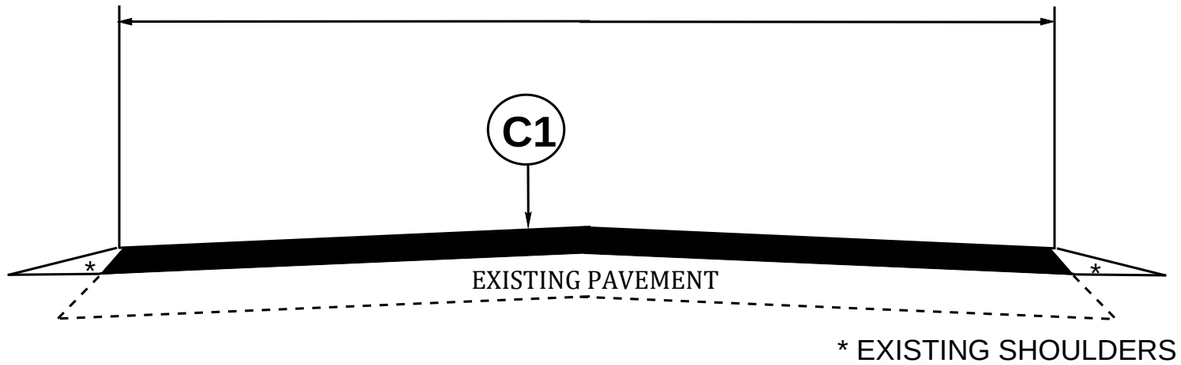


TYPICAL SECTION #2

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD
C2	PROP. APPROX. 1.25" ASPHALTIC CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YARD
F1	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
F2	ASPHALT SURFACE TREATMENT, FOG SEAL
T1	SHOULDER RECONSTRUCTION
V1	INCIDENTIAL MILLING

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	6

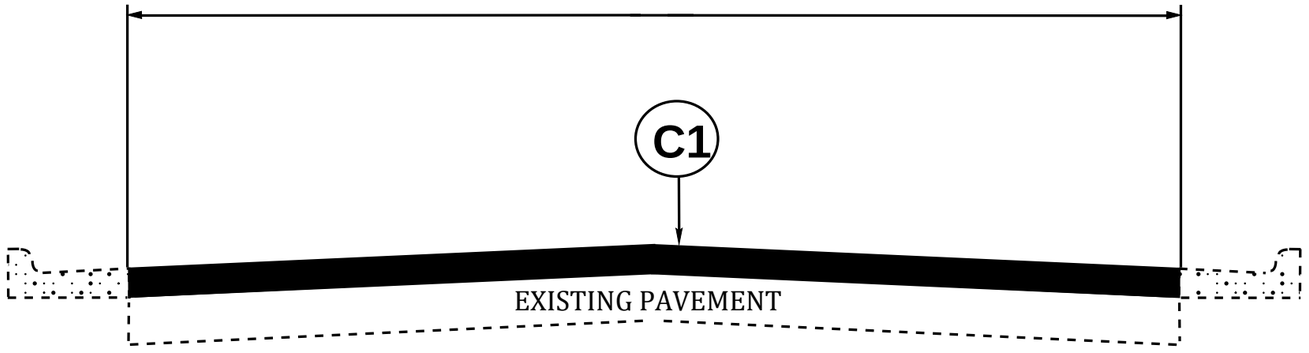
Variable 18' - 21'



* EXISTING SHOULDERS

TYPICAL SECTION #3

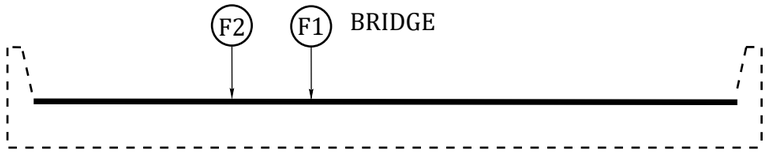
Variable 20' - 22'-6"



TYPICAL SECTION #4

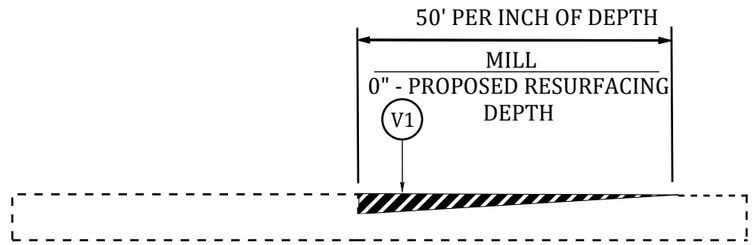
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD
C2	PROP. APPROX. 1.25" ASPHALTIC CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YARD
F1	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
F2	ASPHALT SURFACE TREATMENT, FOG SEAL
T1	SHOULDER RECONSTRUCTION
V1	INCIDENTIAL MILLING

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	7



BRIDGE DETAIL

BRIDGE NUMBER 342 MAP 9 AND 022 MAP 10
SEE MAP FOR BRIDGE LOCATION.

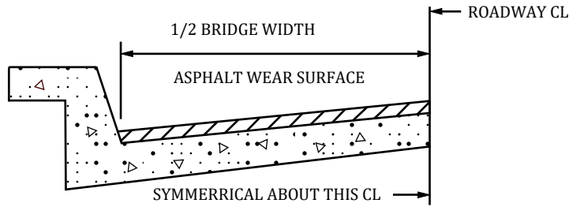


MILLING DETAIL TO TIE INTO EXIST PAVEMENT

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT HE WILL BE REQUIRED TO MILL THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END AND Y LINES OF EACH MAP TO BE RESURFACED WITH ASPHALT CONC SURFACE COURSE, TYPE S9.5B THIS WILL BE PAID FOR AS INCIDENTAL MILLING.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD
C2	PROP. APPROX. 1.25" ASPHALTIC CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YARD
F1	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
F2	ASPHALT SURFACE TREATMENT, FOG SEAL
T1	SHOULDER RECONSTRUCTION
V1	INCIDENTIAL MILLING

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	8



BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

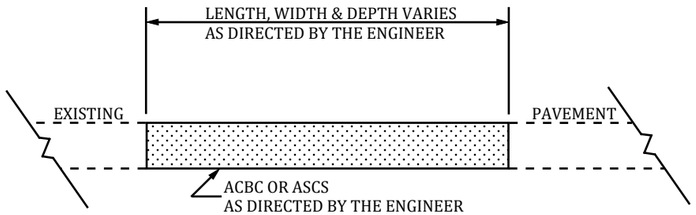
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1/2", S9.5B 1", S9.5C,D 1.5" - 2". ULTRA-THIN HOT MIX ASPHALT ".

NOTES

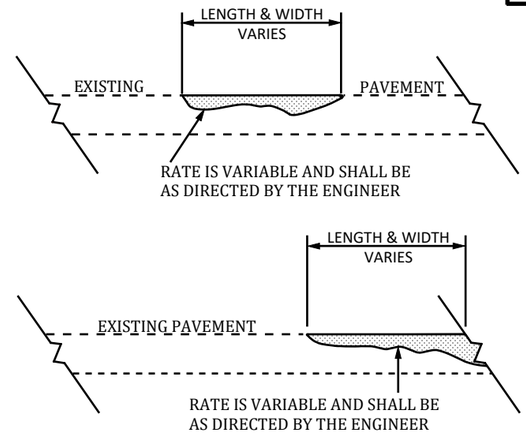
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.

SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED.

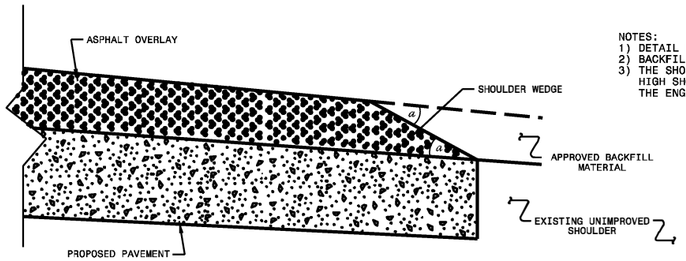
BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



PATCHING EXISTING PAVEMENT

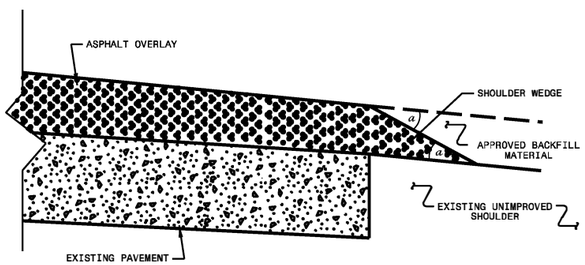


DETAIL SHOWING METHOD OF WEDGING

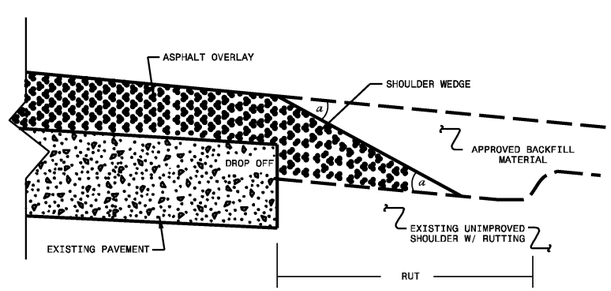


NOTES:
1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS DIRECTED BY THE ENGINEER.

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



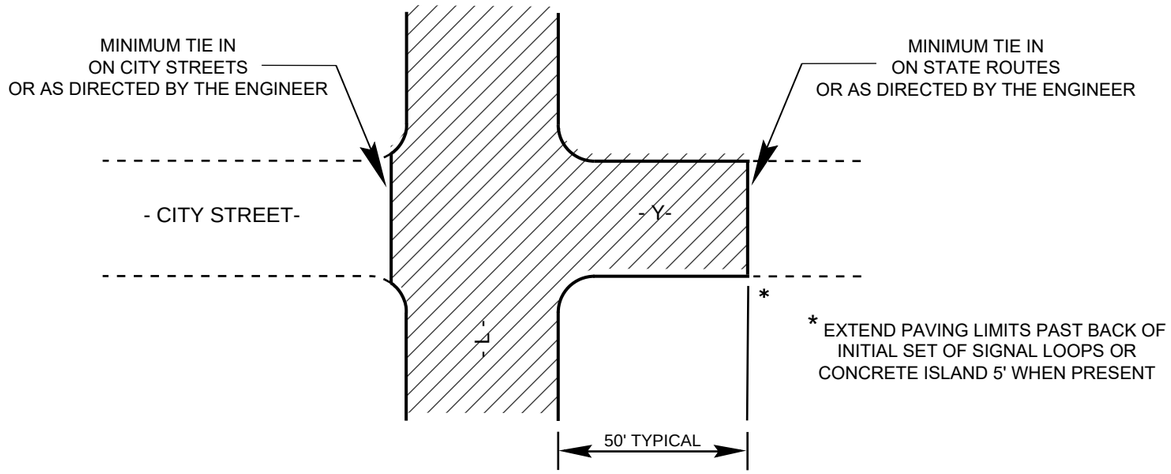
SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



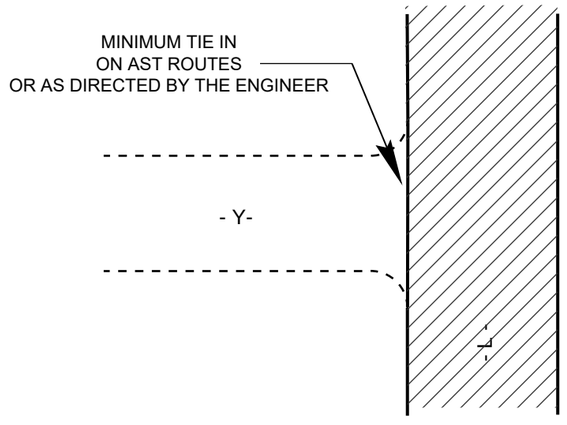
SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to Rutted Shoulder)

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	9

DETAIL 1



DETAIL 2



TYPICAL DETAILS OF PAVING LIMITS AT -Y- LINES

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	10

SUMMARY OF QUANTITIES

											1220000000-E	1245000000-E	1260000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	1803500000-E	1820000000-E	1838000000-E
MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT, FOG SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT
						MI	FT				TON	SMI	TON	SY	TON	TON	TON	SY	SY	GAL
1	SR 1349 (ADAMS HILL ROAD)	FROM SR 1353 (RIVERVIEW CHURCH ROAD) TO SR 1332 (NORTH LOUISIANA AVENUE)	1	2	2WU	0.89	20.00	0.01	0.90							10	216	10,443	10,443	6,266
2	SR 1353 (RIVERVIEW CHURCH ROAD)	FROM SR 1357 (GORMAN BRIDGE ROAD) TO SR 1349 (ADAMS HILL ROAD)	1	2	2WU	0.53	21.00	0.00	0.53							8	170	6,530	6,530	3,918
3	SR 1357 (GORMAN BRIDGE ROAD)	FROM SR 1353 (RIVERVIEW CHURCH ROAD) TO SR 1002 (OLD LEICESTER HIGHWAY)	1	2	2WU	0.75	20.00	1.08	1.83							6	135	8,800	8,800	5,280
4	SR 1367 (OLIVETTE ROAD)	FROM SR 1002 (OLD LEICESTER HIGHWAY) TO SR 1645 (MACEDONIA ROAD)	2	2	2WU	0.67	21.00	0.82	1.49		34	1.34	174	910	635	47	128			
5	SR 1456 (KEYSTONE,CARDINAL,HOLLY HILL DRIVE)	FROM SR 1369 MOUNT CARMEL ROAD) TO SR 1374 (ODONALD ROAD)	3	2	2WD	1.09	20.00	0.01	1.10					222	762	57	155			
6	SR 1457 (HOLLY HILL COURT)	FROM SR 1456 (HOLLY HILL DRIVE) TO CUL DE SAC	3	2	2WU	0.10	19.00	0.01	0.11						75	5	11			
7	SR 1505 (LAKEVIEW ACRES DRIVE)	FROM SR 1002 (OLD LEICESTER HIGHWAY) TO END OF MAINTENANCE	3	2	2WU	0.17	20.00	0.00	0.17					223	136	11	35			
8	SR 1506 (SPRINGSIDE DRIVE)	FROM SR 1505 (LAKEVIEW ACRES DRIVE) TO CUL DE SAC	3	2	2WU	0.14	20.00	0.00	0.14						116	8	15			
9	SR 1610 (MARTIN BRANCH ROAD)	FROM SR 1607 (BEAR CREEK ROAD) TO SR 1612 (GIBBS ROAD)	1	2	2WU	1.54	22.00	0.01	1.55							5	112	19,876	19,876	9,757
10	SR 1615 (GILBERT ROAD)	FROM NC 63 TO SR 1608 (TURKEY CREEK ROAD)	1	2	2WU	0.85	20.00	0.01	0.86							3	65	9,973	9,973	5,984
11	SR 1621 (RIDGEVIEW ROAD)	FROM SR 1620 (ALEXANDER ROAD) TO SR 1622 (OLD NC 20 HIGHWAY)	1	2	2WU	1.36	20.00	0.00	1.36							11	236	15,957	15,957	9,574
12	SR 1627 (TIPTON HILL ROAD)	FROM SR 1620 (ALEXANDER ROAD) TO SR 1629 (OLD HIGHWAY 20)	1	2	2WU	1.99	20.00	0.00	1.99							8	165	23,349	23,349	14,009
13	SR 1655 (OWENBY ROAD)	FROM SR 1002 (OLD LEICESTER HIGHWAY) TO SR 1655 (OWENBY ROAD)	1	2	2WU	0.02	19.00	0.00	0.02							1	11	223	223	134
14	SR 1659 (OWENBY ROAD/ CHURCH ROAD)	FROM SR 1002 (OLD LEICESTER HIGHWAY) TO SR 1002 (CHURCH ROAD)	1	2	2WU	0.36	19.00	0.00	0.36							2	51	4,013	4,013	2,408
15	SR 1803 (TIPPERARY DRIVE)	FROM SR 1368 (LEES CREEK ROAD) TO CUL DE SAC	3, 4	2	2WU	0.53	20.00	0.00	0.53					223	367	25	27			
16	SR 1806 (WATERFORD COURT)	FROM SR 1805 (KILKENNY DRIVE) TO CUL DE SAC	4	2	2WU	0.16	22.50	0.00	0.16					125	130	9	12			
17	SR 1808 (FIELDCRESTPLACE/ CIRCLE)	FROM SR 1456 (HOLLY HILL DRIVE) TO SR 1808 (FIELDCREST /CIRCLE	3	2	2WU	0.49	20.00	0.00	0.49						340	25	54			
18	SR 1813 (KEYSTONE DRIVE EXTENSION)	FROM SR 1456 (KEYSTONE DRIVE) TO END OF MAINTENANCE	3	2	2WU	0.19	19.50	0.00	0.19					108	130	9	11			
19	SR 1814 (WONDU VIEW COURT)	FROM SR 1813 (KEYSTONE DRIVE EXTENSION) TO END OF MAINTENANCE	3	2	2WU	0.08	20.00	0.00	0.08					223	77	6	14			
20	SR 1825 (CARDINAL DRIVE)	FROM SR 1456 (KEYSTONE DRIVE) TO SR 1456 (HOLLY HILL DRIVE)	3	2	2WU	0.35	20.00	0.00	0.35					223	243	17	25			
21	SR 1853 (DAVLYN DRIVE)	FROM SR 1369 (MOUNT CARMEL ROAD) TO SR 1803 (TIPPERARY DRIVE)	3	2	2WU	0.07	18.00	0.00	0.07					300	45	4	12			
22	SR 1854 (SCOTTLYNN DRIVE)	FROM SR 1113 (BYRD ROAD) TO SR 1803 (TIPPERARY DRIVE)	4	2	2WU	0.18	22.00	0.00	0.18					245	140	10	16			
23	SR 1862 (SCOTTLYNN COURT)	FROM SR 1854 (SCOTTLYNN DRIVE) TO CUL DE SAC	4	2	2WU	0.04	22.00	0.00	0.04						50	4	11			
24	SR 1877 (TIPPERARY/MOUNT CARMEL DRIVE)	FROM SR 1854 (SCOTTLYNN DRIVE) TO END OF STATE MAINTENANCE	4	2	2WU	0.24	22.50	0.00	0.24					250	187	14	37			
25	SR 1880 (FRIENDLY WAY)	FROM SR 1865 (LYNWOOD CIRCLE) TO CUL DE SAC	3	2	2WU	0.18	18.00	0.00	0.18					200	130	9	17			
26	SR 1884 (WESTMONT DRIVE)	FROM SR 1877 (MOUNT CARMEL DRIVE) TO CUL DE SAC	4	2	2WU	0.13	22.50	0.00	0.13						121	8	12			
27	SR 1891 (FRIENDLY LANE)	FROM SR 1880 (FRIENDLY WAY) TO CUL DE SAC	3	2	2WU	0.18	18.00	0.00	0.18						125	9	11			
28	SR 1892 (FRIENDLY CIRCLE)	FROM CUL DE SAC TO SR 1891 (FRIENDLY LANE)	3	2	2WU	0.05	18.00	0.00	0.05						60	4	11			
TOTAL FOR PROJ NO. 2027CPT.13.05.20112						**13.33**					**34**	**1.34**	**174**	**3,252**	**3,869**	**335**	**1,775**	**99,164**	**99,164**	**57,330**
GRAND TOTAL						**13.33**					**34**	**1.34**	**174**	**3,252**	**3,869**	**335**	**1,775**	**99,164**	**99,164**	**57,330**

Note: All maps project number =2027CPT.13.05.20112, County = Buncombe.

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	11

THERMOPLASTIC AND PAINT QUANTITIES

											4413000000-E	4457000000-N	4709000000-E	4720000000-E	4890000000-E	4890000000-E
MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		WORK ZONE ADVANCE /GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE STOP BAR	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) SCHOOL	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 60 MILS) (YELLOW)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 60 MILS) (WHITE)
						MI	FT				SF	LS	LF	EA	LF	LF
1	SR 1349 (ADAMS HILL ROAD)	FROM SR 1353 (RIVERVIEW CHURCH ROAD) TO SR 1332 (NORTH LOUISIANA AVENUE)	1	2	2WU	0.89	20.00	0.01	0.90		100				9,398	9,398
2	SR 1353 (RIVERVIEW CHURCH ROAD)	FROM SR 1357 (GORMAN BRIDGE ROAD) TO SR 1349 (ADAMS HILL ROAD)	1	2	2WU	0.53	21.00	0.00	0.53		60				5,600	5,600
3	SR 1357 (GORMAN BRIDGE ROAD)	FROM SR 1353 (RIVERVIEW CHURCH ROAD) TO SR 1002 (OLD LEICESTER HIGHWAY)	1	2	2WU	0.75	20.00	1.08	1.83		84				7,920	7,920
4	SR 1367 (OLIVETTE ROAD)	FROM SR 1002 (OLD LEICESTER HIGHWAY) TO SR 1645 (MACEDONIA ROAD)	2	2	2WU	0.67	21.00	0.82	1.49		75				7,075	7,075
5	SR 1456 (KEYSTONE,CARDINAL,HOLLY HILL DRIVE)	FROM SR 1369 MOUNT CARMEL ROAD) TO SR 1374 (ODONALD ROAD)	3	2	2WD	1.09	20.00	0.01	1.10		122					
6	SR 1457 (HOLLY HILL COURT)	FROM SR 1456 (HOLLY HILL DRIVE) TO CUL DE SAC	3	2	2WU	0.10	19.00	0.01	0.11		12					
7	SR 1505 (LAKEVIEW ACRES DRIVE)	FROM SR 1002 (OLD LEICESTER HIGHWAY) TO END OF MAINTENANCE	3	2	2WU	0.17	20.00	0.00	0.17		19					
8	SR 1506 (SPRINGSIDE DRIVE)	FROM SR 1505 (LAKEVIEW ACRES DRIVE) TO CUL DE SAC	3	2	2WU	0.14	20.00	0.00	0.14		16					
9	SR 1610 (MARTIN BRANCH ROAD)	FROM SR 1607 (BEAR CREEK ROAD) TO SR 1612 (GIBBS ROAD)	1	2	2WU	1.54	22.00	0.01	1.55		173				16,262	16,262
10	SR 1615 (GILBERT ROAD)	FROM NC 63 TO SR 1608 (TURKEY CREEK ROAD)	1	2	2WU	0.85	20.00	0.01	0.86		95		58	12	8,976	8,976
11	SR 1621 (RIDGEVIEW ROAD)	FROM SR 1620 (ALEXANDER ROAD) TO SR 1622 (OLD NC 20 HIGHWAY)	1	2	2WU	1.36	20.00	0.00	1.36		152				14,362	14,362
12**	SR 1627 (TIPTON HILL ROAD)	FROM SR 1620 (ALEXANDER ROAD) TO SR 1629 (OLD HIGHWAY 20)	1	2	2WU	1.99	20.00	0.00	1.99		223				21,014	21,014
13	SR 1655 (OWENBY ROAD)	FROM SR 1002 (OLD LEICESTER HIGHWAY) TO SR 1655 (OWENBY ROAD)	1	2	2WU	0.02	19.00	0.00	0.02		3				212	212
14	SR 1659 (OWENBY ROAD/ CHURCH ROAD)	FROM SR 1002 (OLD LEICESTER HIGHWAY) TO SR 1002 (CHURCH ROAD)	1	2	2WU	0.36	19.00	0.00	0.36		40	*			3,802	3,802
15	SR 1803 (TIPPERARY DRIVE)	FROM SR 1368 (LEES CREEK ROAD) TO CUL DE SAC	3, 4	2	2WU	0.53	20.00	0.00	0.53		60					
16	SR 1806 (WATERFORD COURT)	FROM SR 1805 (KILKENNY DRIVE) TO CUL DE SAC	4	2	2WU	0.16	22.50	0.00	0.16		18					
17	SR 1808 (FIELDCRESTPLACE/ CIRCLE)	FROM SR 1456 (HOLLY HILL DRIVE) TO SR 1808 (FIELDCREST /CIRCLE	3	2	2WU	0.49	20.00	0.00	0.49		55					
18	SR 1813 (KEYSTONE DRIVE EXTENSION)	FROM SR 1456 (KEYSTONE DRIVE) TO END OF MAINTENANCE	3	2	2WU	0.19	19.50	0.00	0.19		21					
19	SR 1814 (WONDU VIEW COURT)	FROM SR 1813 (KEYSTONE DRIVE EXTENSION) TO END OF MAINTENANCE	3	2	2WU	0.08	20.00	0.00	0.08		9					
20	SR 1825 (CARDINAL DRIVE)	FROM SR 1456 (KEYSTONE DRIVE) TO SR 1456 (HOLLY HILL DRIVE)	3	2	2WU	0.35	20.00	0.00	0.35		39					
21	SR 1853 (DAVLYN DRIVE)	FROM SR 1369 (MOUNT CARMEL ROAD) TO SR 1803 (TIPPERARY DRIVE)	3	2	2WU	0.07	18.00	0.00	0.07		8					
22	SR 1854 (SCOTTLYNN DRIVE)	FROM SR 1113 (BYRD ROAD) TO SR 1803 (TIPPERARY DRIVE)	4	2	2WU	0.18	22.00	0.00	0.18		20					
23	SR 1862 (SCOTTLYNN COURT)	FROM SR 1854 (SCOTTLYNN DRIVE) TO CUL DE SAC	4	2	2WU	0.04	22.00	0.00	0.04		5					
24	SR 1877 (TIPPERARY/MOUNT CARMEL DRIVE)	FROM SR 1854 (SCOTTLYNN DRIVE) TO END OF STATE MAINTENANCE	4	2	2WU	0.24	22.50	0.00	0.24		27					
25	SR 1880 (FRIENDLY WAY)	FROM SR 1865 (LYNWOOD CIRCLE) TO CUL DE SAC	3	2	2WU	0.18	18.00	0.00	0.18		20					
26	SR 1884 (WESTMONT DRIVE)	FROM SR 1877 (MOUNT CARMEL DRIVE) TO CUL DE SAC	4	2	2WU	0.13	22.50	0.00	0.13		15					
27	SR 1891 (FRIENDLY LANE)	FROM SR 1880 (FRIENDLY WAY) TO CUL DE SAC	3	2	2WU	0.18	18.00	0.00	0.18		20					
28	SR 1892 (FRIENDLY CIRCLE)	FROM CUL DE SAC TO SR 1891 (FRIENDLY LANE)	3	2	2WU	0.05	18.00	0.00	0.05		6					
TOTAL FOR PROJ NO. 2027CPT.13.05.20112						**13.33**					**1,497**	**1**	**58**	**12**	**94,621**	**94,621**
GRAND TOTAL						**13.33**					**1,497**	**1**	**58**	**12**	**189,242**	

Note: All maps project number =2027CPT.13.05.20112, County = Buncombe.

*** * NOTE: PASSING ZONE ON MAP 12 IS TO BE REMOVED AND REPLACE WITH DOUBLE YELLOW PAVEMENT MARKINGS**

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	12

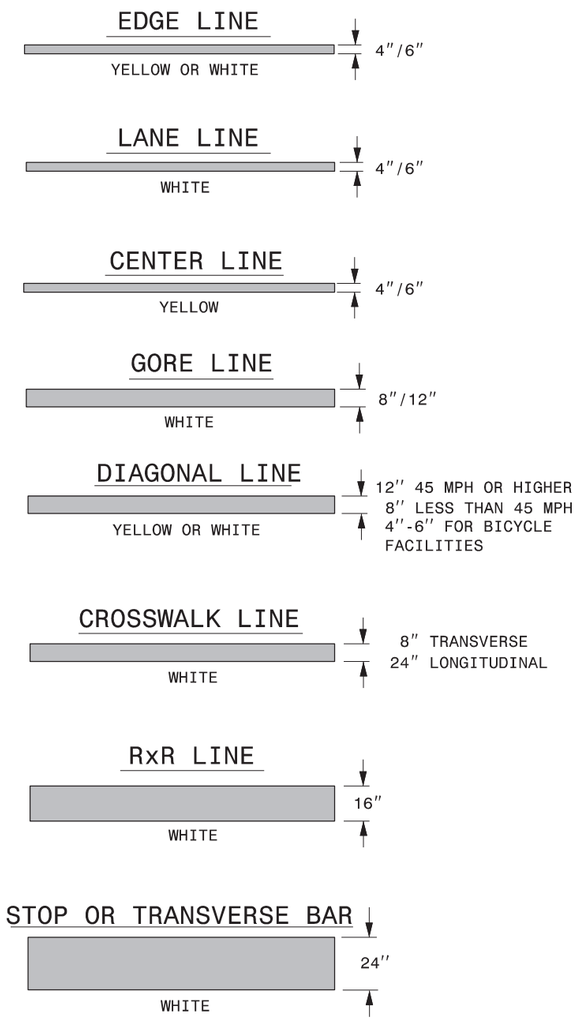
BRIDGE DATA

Map No.	Route No.	Route Name	Bridge No.	Recommended Treatment, From Bridge Maintenance
9	1610	MARTIN BRANCH ROAD	100342	DOUBLE SEAL AND FOG
10	1615	GILBERT ROAD	100022	DOUBLE SEAL AND FOG

Docusign Envelope ID: F98B42D3-7C23-87B0-83CC-CF9E04B8F577

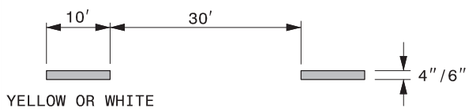
PROJECT REFERENCE NO.	SHEET NO.
2027CPT.13.05.20112	13

CONTINUOUS LINES



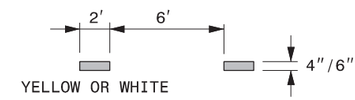
10'-30'/SP SKIP LINE

UNLESS OTHERWISED SHOWN, USE 10'-30'/SP SKIPS FOR SKIP LANE LINES AND SKIP CENTER LINES.



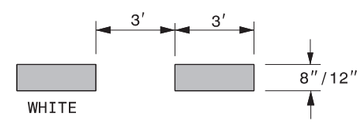
2'-6'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 2'-6'/SP MINI-SKIPS FOR LANE LINE EXTENSIONS THROUGH INTERSECTIONS, EDGE LINE EXTENSIONS THROUGH INTERSECTIONS AND BICYCLE LANE EXTENSIONS.



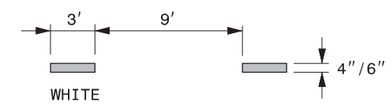
3'-3'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 3'-3'/SP MINI-SKIPS FOR THE WHITE EDGE LINE ENTENSIONS AT ROUNDABOUTS.



3'-9'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 3'-9'/SP MINI-SKIPS FOR MINI-SKIP LANE LINES, LINE EXTENSIONS THROUGH TAPERS, AND MINI-SKIPS USED FOR BICYCLE LANE LINES.



GENERAL NOTES:

1- USE 6" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.

2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

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

ROADWAY DETAIL DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

SHEET 1 OF 2
1205D01

NORTH CAROLINA PROFESSIONAL SEAL 042546 ENGINEER MATTHEW V. SPRINGER

Signed by:
Matthew V. Springer, PE
BC60F6E8B584493
5/5/2026

CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

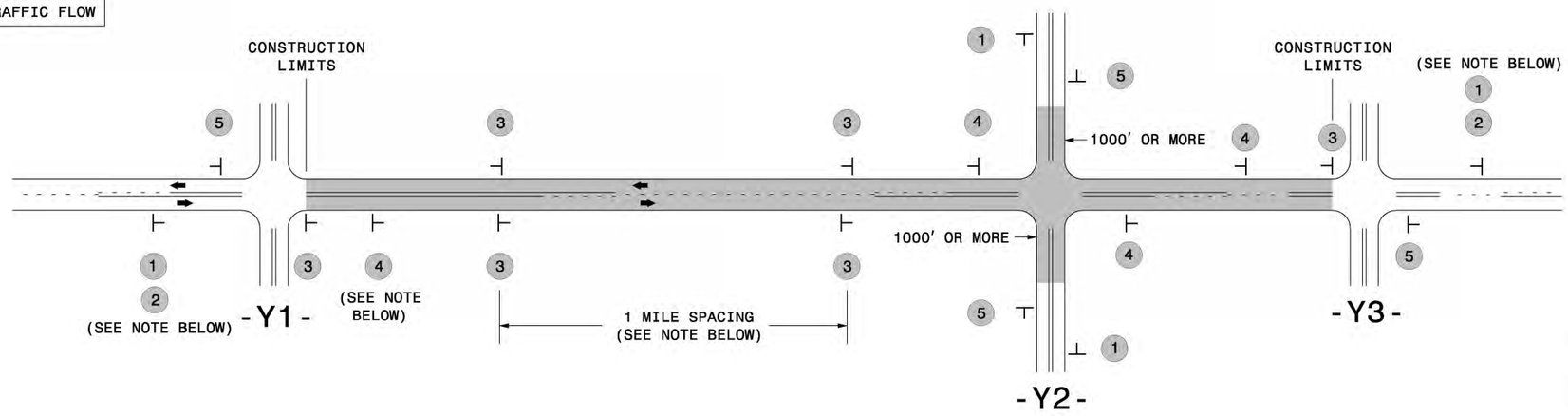
SEE TITLE BLOCK

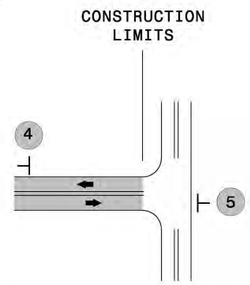
ORIGINAL BY: M.V. SPRINGER DATE: 2-15-24
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	14

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1. ROAD WORK AHEAD W20-1 48″ X 48″
2. NEXT XX MILES W7-3aP 24″ X 18″

PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.

#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. LOW SOFT SHOULDER SP 13107 48″ X 48″

- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.

4. ROAD UNDER CONST SP 13106 48″ X 48″

- 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. END ROAD WORK 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.

-Y- LINE SIGNING

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

1) LESS THAN 1000′ OF RESURFACING ALONG -Y- LINE
2) SUBDIVISION ROADS
3) DEAD END ROADS

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.

ROAD WORK AHEAD W20-1 48″ X 48″
PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A 48″ X 48″
PLACED 250′ IN ADVANCE OF FLAGGER.

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

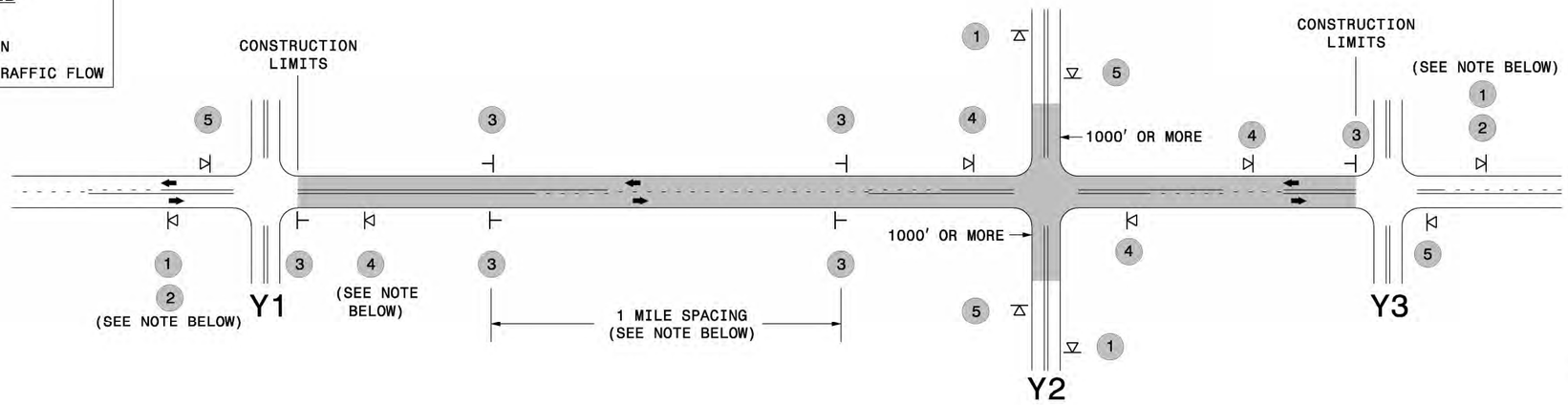
ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

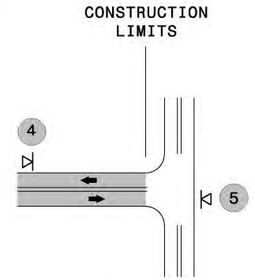
5/15/2017
SATMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kaddis

PROJECT NO.	SHEET NO.
2027CPT.13.05.20112	15

SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND
- PORTABLE SIGN
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1. ROAD WORK AHEAD 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.
2. NEXT XX MILES W7-3aP 24″ X 18″ — SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.
3. LOOSE GRAVEL W8-7 48″ X 48″ / UNMARKED PAVEMENT SP 48″ X 48″
   - ALTERNATE THE FOLLOWING TWO SIGNS:
   - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".
   - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.
   - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
4. ROAD UNDER CONST SP 13106 48″ X 48″
   - 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.
5. END ROAD WORK 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 AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.

-Y- LINE SIGNING

STATIONARY SIGNING NOT REQUIRED FOR THE FOLLOWING -Y- LINE CONDITIONS:

1) LESS THAN 1000′ OF RESURFACING ALONG -Y- LINE
2) SUBDIVISION ROADS
3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALLE BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

ROAD WORK AHEAD W20-1 48″ X 48″ — PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A 48″ X 48″ — PLACED 250′ IN ADVANCE OF FLAGGER.

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

5/12/2017
S:\TMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln - AST.dgn
User:kedgils