0 0.25 0.5 Miles

Bridge 511

Bridge 182

Bridge 238

Bridge 050

Bridge 365

Bridge 364

Smokey Park Hwy

US Highway 74

MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
1	SR 1224 (WEST OAKVIEW ROAD)	BEGIN MAINTENANCE	SR 3426 (MCINTOSH ROAD)	0.4
2	SR 1224 (WEST OAKVIEW ROAD)	SR 3426 (MCINTOSH ROAD)	SR 3412 (SAND HILL ROAD)	1
8	SR 3412 (SAND HILL ROAD)	US 19	BEAR CREEK ROAD (CITY STREET)	1.32
9	SR 3413 (SOUTH BEAR CREEK ROAD)	NC 191	SR 3412 (SAND HILLS ROAD)	1.06
10	SR 3416 (GREEN VALLEY ROAD)	SR 3412 (SAND HILL ROAD)	SR 3554 (GREEN VALLEY COURT)	0.18
11	SR 3431 (POND ROAD)	NC 112	NC 191	1. 92
12	SR 3434 (REEVES CHAPEL ROAD)	NC 112	END OF MAINTENANCE	0.04
28	SR 3554 (GREEN VALLEY COURT/GREEN VALLEY ROAD)	BEGINS AT CULVERT(BOTTOM OF HILL)	MILE POST .15	0.15

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General Location

BUNCOMBE
Asheville

251 0.25 0.5 Miles

5

4

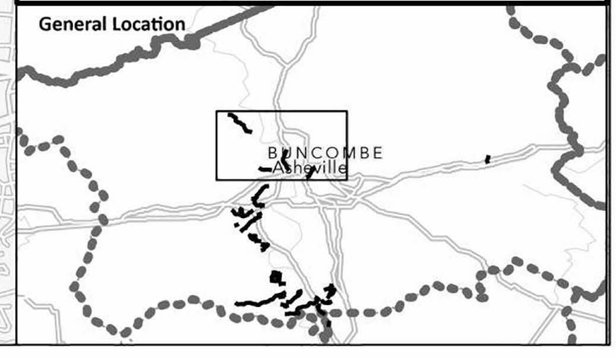
3

7

MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
3	SR 1338 (EMMA ROAD)	SR 1332 (NORTH LOUISIANA AVENUE)	SR 1333 (HAZEL MILL ROAD) PAVEMENT JOINT	0.5
4	SR 1477 (RIVERSIDE DRIVE)	SR 1517 (HILL STREET) PAVEMENT JOINT	NC 251 (BROADWAY STREET)	1.35
5	SR 1645 (MACEDONIA ROAD)	SR 1641 (JENKINS VALLEY ROAD)	SR 1367 (OLIVETTE ROAD)	1.96
7	SR 3284 (SOUTH CHARLOTTE STREET)	US 25	US 70	0.7

WBS - 2025CPT.13.06.20111 Sheet 2

General Location



0 0.25 0.5 Miles

WESTERN CAROLINA STATE VETERANS CEMETERY

6

US 70 Hwy

US 70

US-70

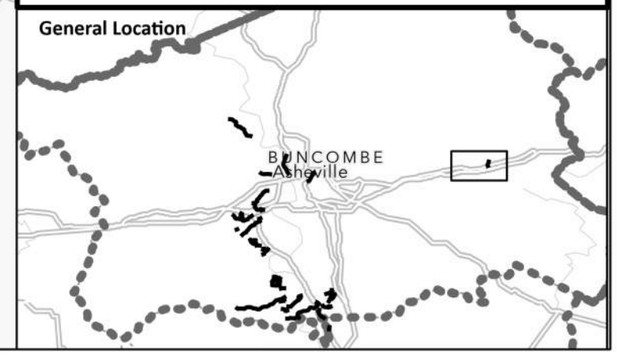
I-40

Swannanoa

MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
6	SR 2472 (GROVESTONE ROAD)	SR 2435 (OLD US 70 WEST)	US 70	0.32

WBS - 2025CPT.13.06.20111 Sheet 3

General Location



0 0.25 0.5 Miles

BILTMORE SQUARE MALL

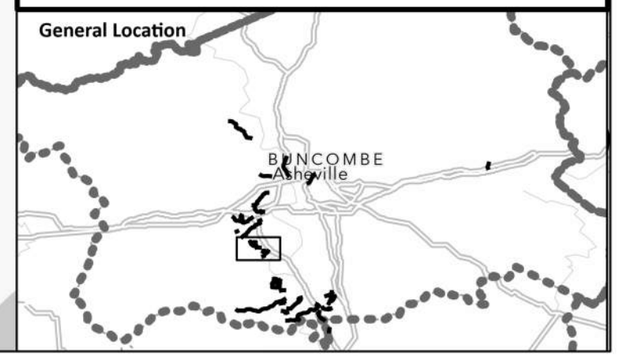
32
13
14
31
37
16
15

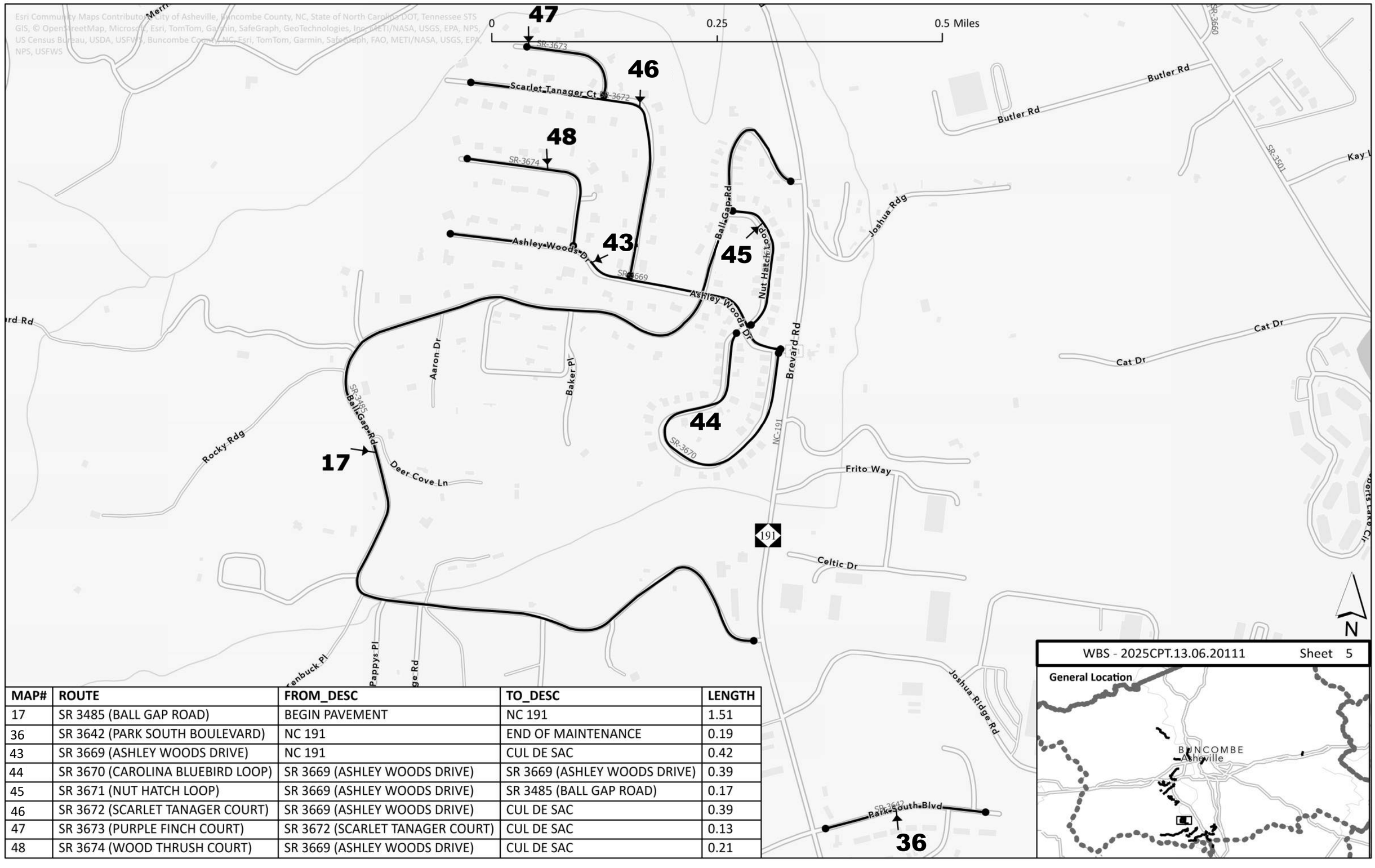
MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
13	SR 3473 (OAK TERRACE ROAD)	NC 112	SR 3474 (STRADLEY MOUNTAIN ROAD)	0.18
14	SR 3474 (STRADLEY MOUNTAIN ROAD)	NC 191	NC 191	0.94
15	SR 3482 (FERRY ROAD)	SR 3481 (DRY FERRY ROAD)	END OF PAVEMENT	0.47
16	SR 3483 (KNOB HILL ROAD)	SR 3482 (FERRY ROAD)	END OF MAINTENANCE	0.35
31	SR 3585 (OLD BREVARD ROAD/OVERLAND INDUSTRIAL BOULEVARD)	NC 191	NC 191	0.19
32	SR 3615 (HOLLY STREET)	NC 191	SR 3473 (OAK TERRACE ROAD)	0.04
37	SR 3654 (OVERLAND INDUSTRIAL BOULEVARD)	SR 3585 (OLD BREVARD ROAD)	END OF MAINTENANCE	0.16

N

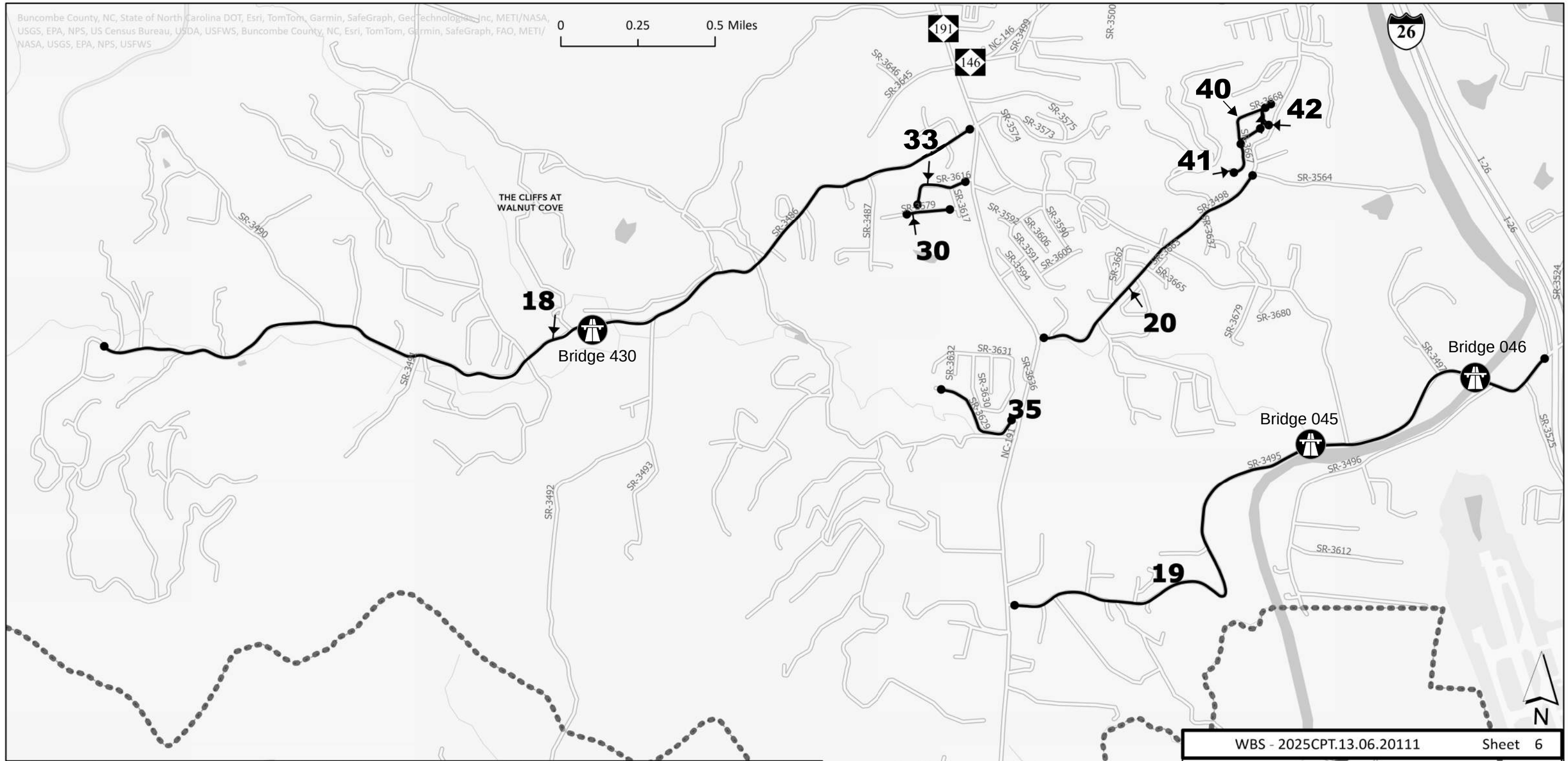
WBS - 2025CPT.13.06.20111 Sheet 4

General Location

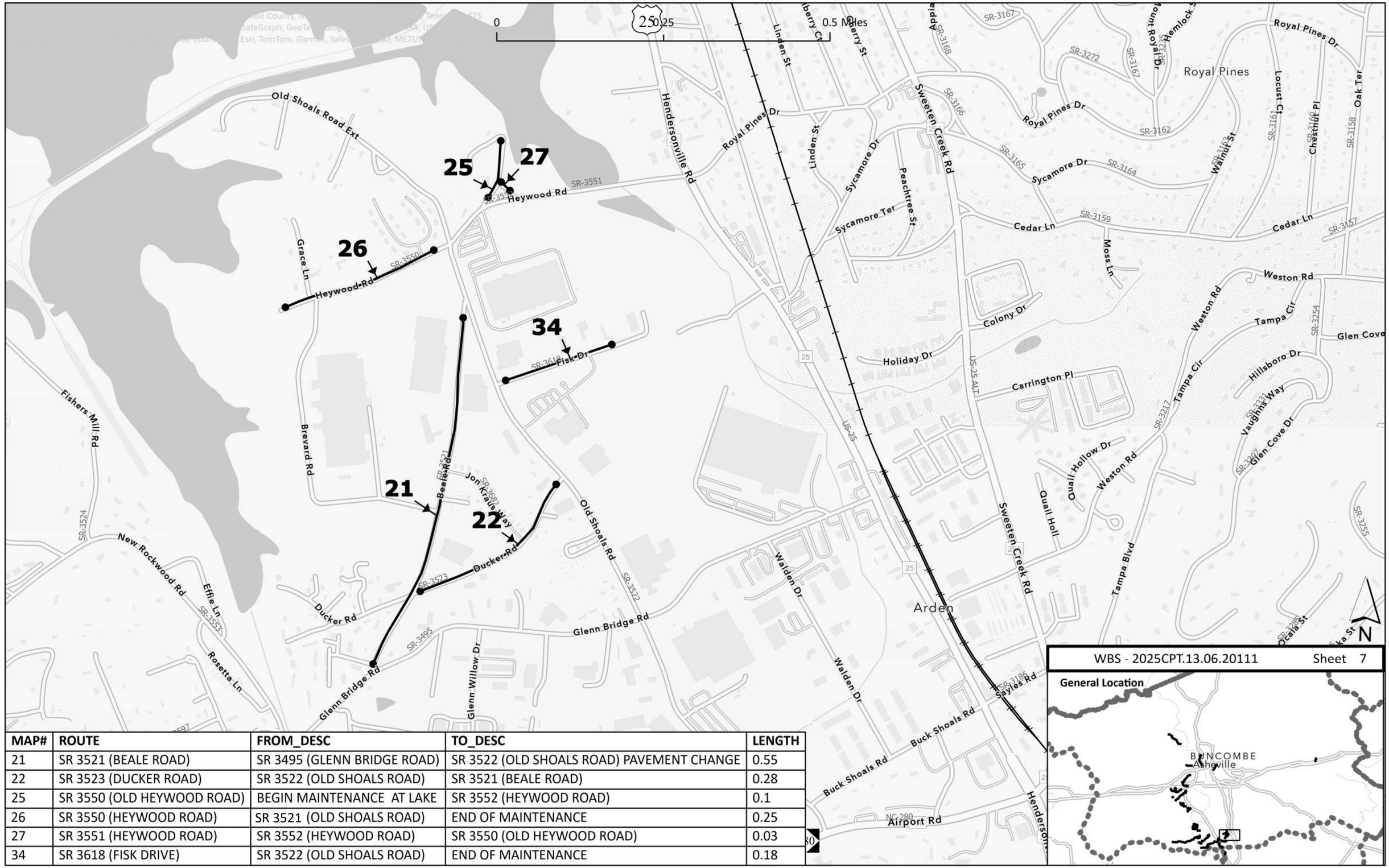




MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
17	SR 3485 (BALL GAP ROAD)	BEGIN PAVEMENT	NC 191	1.51
36	SR 3642 (PARK SOUTH BOULEVARD)	NC 191	END OF MAINTENANCE	0.19
43	SR 3669 (ASHLEY WOODS DRIVE)	NC 191	CUL DE SAC	0.42
44	SR 3670 (CAROLINA BLUEBIRD LOOP)	SR 3669 (ASHLEY WOODS DRIVE)	SR 3669 (ASHLEY WOODS DRIVE)	0.39
45	SR 3671 (NUT HATCH LOOP)	SR 3669 (ASHLEY WOODS DRIVE)	SR 3485 (BALL GAP ROAD)	0.17
46	SR 3672 (SCARLET TANAGER COURT)	SR 3669 (ASHLEY WOODS DRIVE)	CUL DE SAC	0.39
47	SR 3673 (PURPLE FINCH COURT)	SR 3672 (SCARLET TANAGER COURT)	CUL DE SAC	0.13
48	SR 3674 (WOOD THRUSH COURT)	SR 3669 (ASHLEY WOODS DRIVE)	CUL DE SAC	0.21



MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
18	SR 3486 (AVERY CREEK ROAD)	NC 191	END OF MAINTENANCE	3.23
19	SR 3495 (GLENN BRIDGE ROAD)	NC 191	PAVEMENT CHANGE AT I 26 OVERPASS	2.4
20	SR 3498 (LEDBETTER ROAD)	PAVEMENT CHANGE	NC 191	0.94
30	SR 3579 (HOLLY HILL DRIVE)	SR 3617 (PARKWOOD DRIVE)	END OF MAINTENANCE	0.17
33	SR 3616 (LAUREL PARK DRIVE)	NC 191	SR 3579 (HOLLY HILL DRIVE)	0.24
35	SR 3629 (AVERYS CREEK LANE)	NC 191	CUL DE SAC	0.35
40	SR 3666 (YORKTOWN CIRCLE)	SR 3498 (LEDBETTER ROAD)	SR 3666 (YORKTOWN CIRCLE)	0.31
41	SR 3667 (GROTON WAY)	SR 3666 (YORKTOWN CIRCLE)	CUL DE SAC	0.14
42	SR 3668 (SELINA LANE)	SR 3666 (YORKTOWN CIRCLE)	CUL DE SAC	0.05



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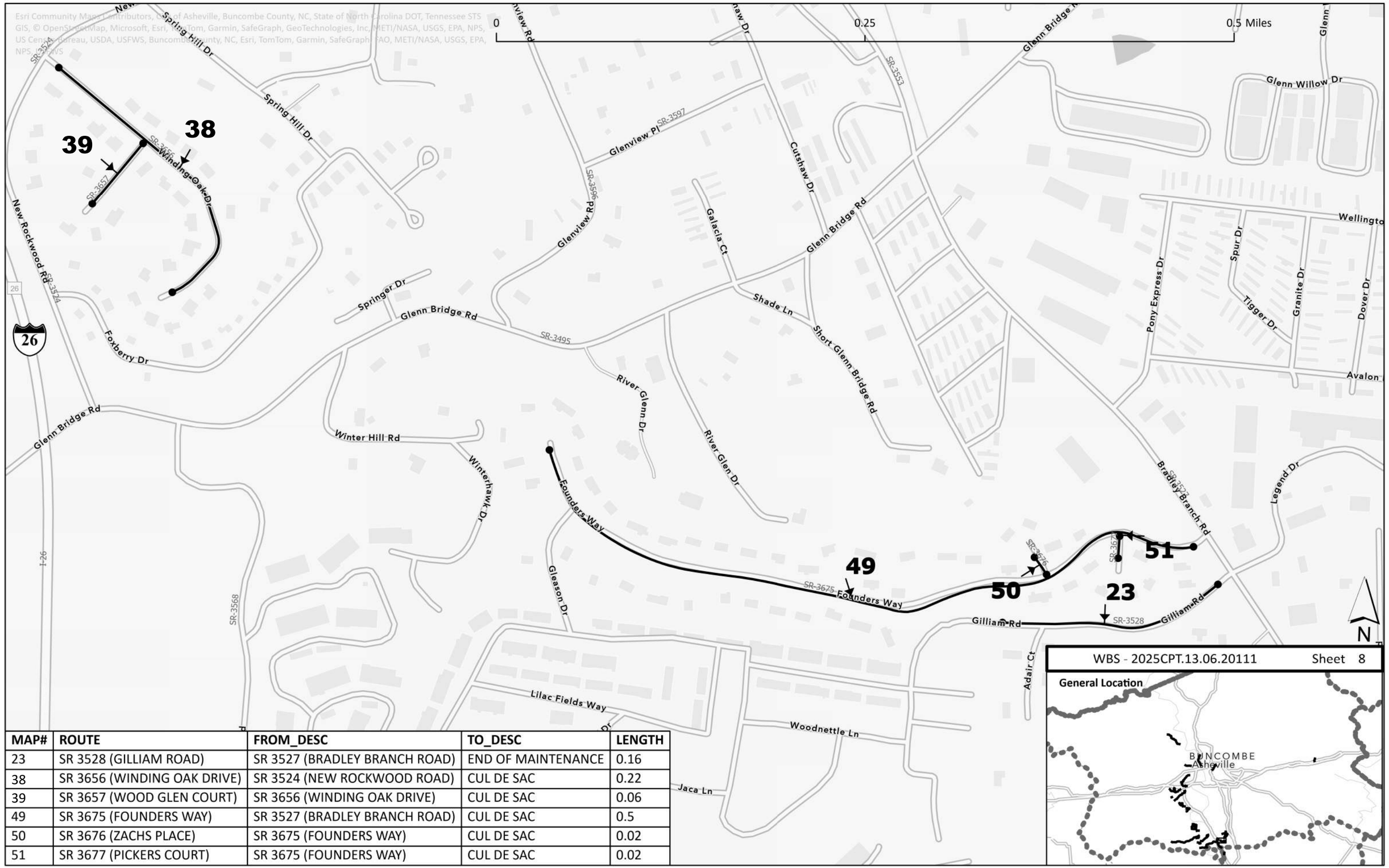
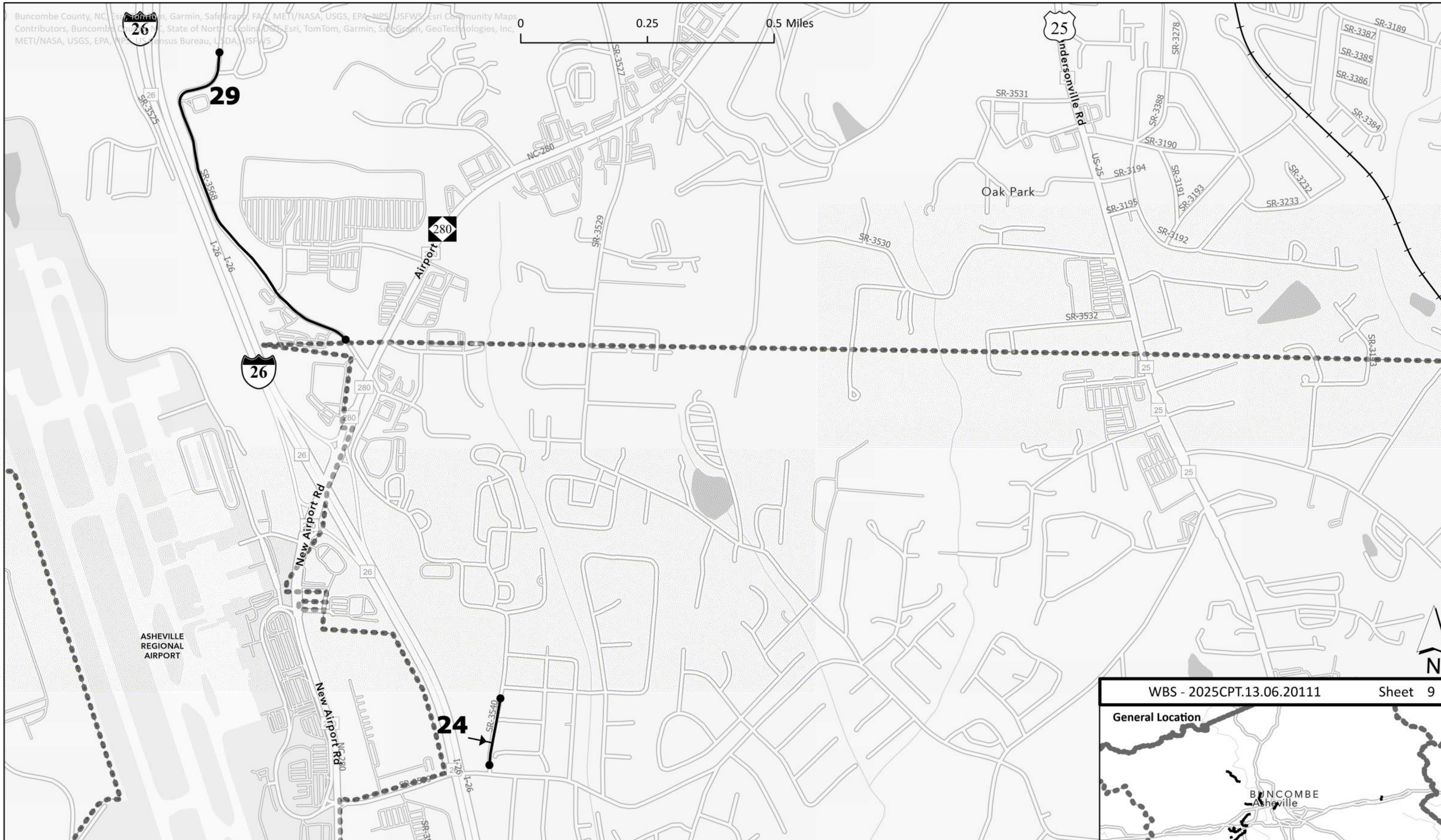
General Location

MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
21	SR 3521 (BEALE ROAD)	SR 3495 (GLENN BRIDGE ROAD)	SR 3522 (OLD SHOALS ROAD) PAVEMENT CHANGE	0.55
22	SR 3523 (DUCKER ROAD)	SR 3522 (OLD SHOALS ROAD)	SR 3521 (BEALE ROAD)	0.28
25	SR 3550 (OLD HEYWOOD ROAD)	BEGIN MAINTENANCE AT LAKE	SR 3552 (HEYWOOD ROAD)	0.1
26	SR 3550 (HEYWOOD ROAD)	SR 3521 (OLD SHOALS ROAD)	END OF MAINTENANCE	0.25
27	SR 3551 (HEYWOOD ROAD)	SR 3552 (HEYWOOD ROAD)	SR 3550 (OLD HEYWOOD ROAD)	0.03
34	SR 3618 (FISK DRIVE)	SR 3522 (OLD SHOALS ROAD)	END OF MAINTENANCE	0.18



MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
23	SR 3528 (GILLIAM ROAD)	SR 3527 (BRADLEY BRANCH ROAD)	END OF MAINTENANCE	0.16
38	SR 3656 (WINDING OAK DRIVE)	SR 3524 (NEW ROCKWOOD ROAD)	CUL DE SAC	0.22
39	SR 3657 (WOOD GLEN COURT)	SR 3656 (WINDING OAK DRIVE)	CUL DE SAC	0.06
49	SR 3675 (FOUNDERS WAY)	SR 3527 (BRADLEY BRANCH ROAD)	CUL DE SAC	0.5
50	SR 3676 (ZACHS PLACE)	SR 3675 (FOUNDERS WAY)	CUL DE SAC	0.02
51	SR 3677 (PICKERS COURT)	SR 3675 (FOUNDERS WAY)	CUL DE SAC	0.02



WBS - 2025CPT.13.06.20111	Sheet 9

General Location

MAP#	ROUTE	FROM_DESC	TO_DESC	LENGTH
24	SR 3540 (UNDERWOOD ROAD)	PINEY DRIVE(PRIVATE) - 05 MILE	SR 3539 (FANNING BRIDGE ROAD)	0.15
29	SR 3568 (ROCKWOOD ROAD)	HENDERSON COUNTY LINE	+.05 MI. FROM FLYCATCHER WAY INTERSECTION	0.76

PROJECT NO.	SHEET NO.
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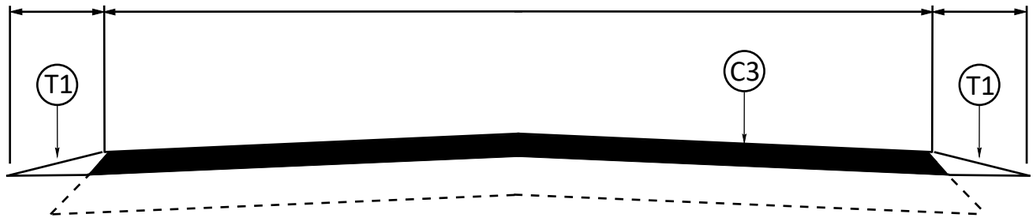
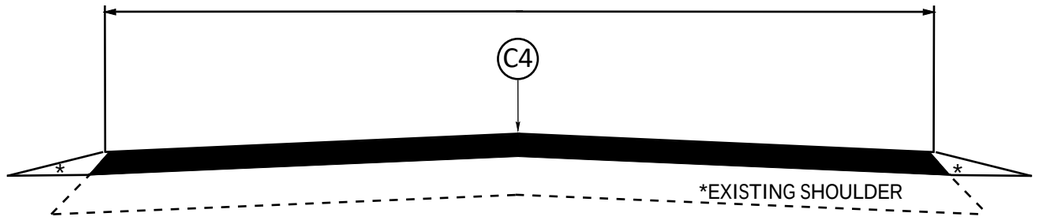
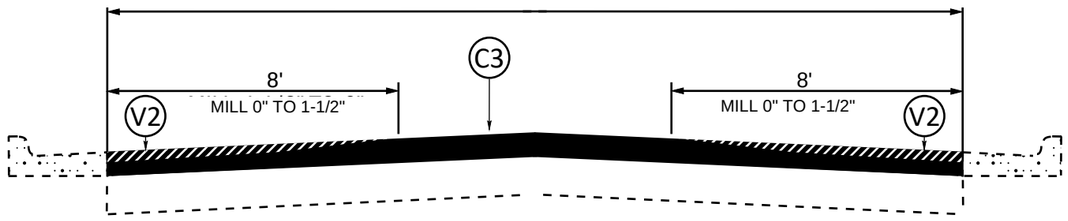


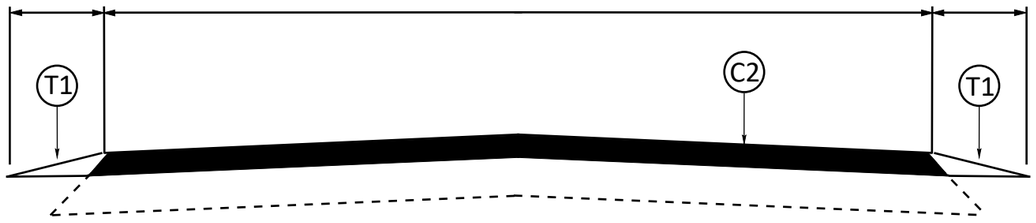
TYPICAL SECTION #1



TYPICAL SECTION #2



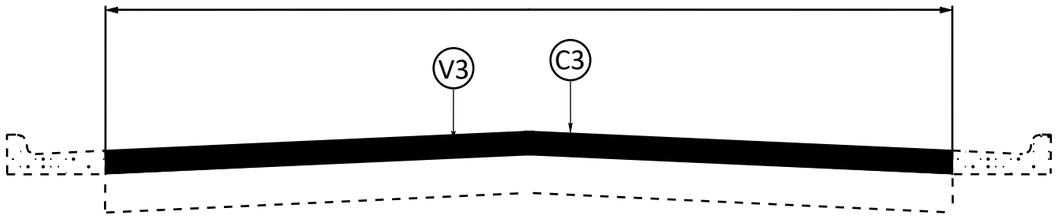
TYPICAL SECTION #3



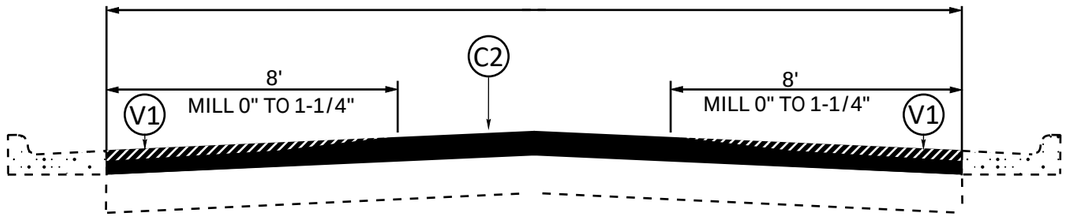
TYPICAL SECTION #4

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 100 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.50 LBS. PER SQ. YARD
C3	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C4	PATCHING ONLY
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT, 0 TO 1-1/4" DEPTH
V2	MILLING ASPHALT PAVEMENT, 0 TO 1-1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH
V4	INCIDENTAL MILLING

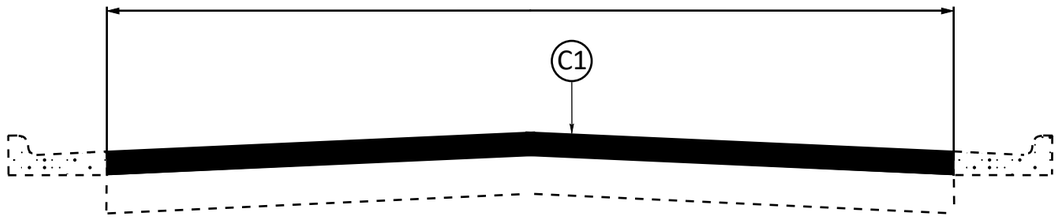
PROJECT NO.	SHEET NO.
2025CPT.13.06.20111	11



TYPICAL SECTION #5



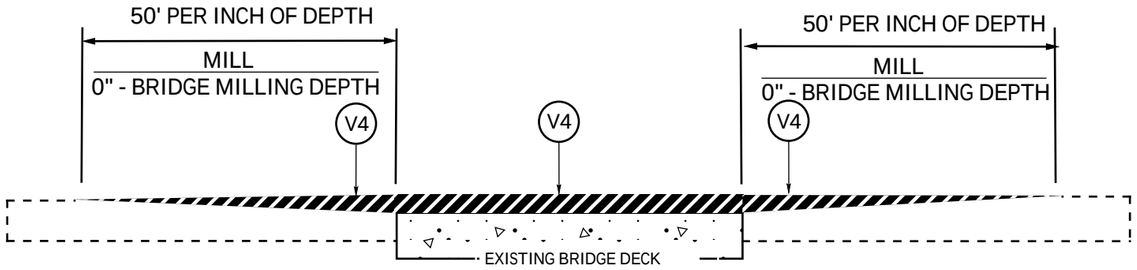
TYPICAL SECTION #6



TYPICAL SECTION #7

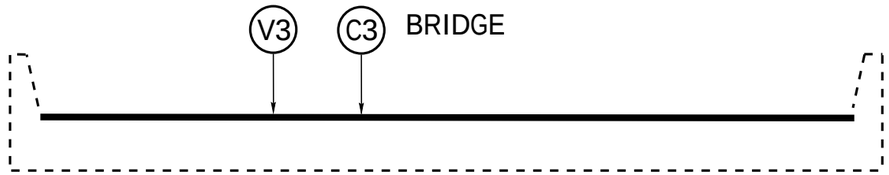
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 100 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.50 LBS. PER SQ. YARD
C3	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C4	PATCHING ONLY
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT, 0 TO 1-1/4" DEPTH
V2	MILLING ASPHALT PAVEMENT, 0 TO 1-1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH
V4	INCIDENTAL MILLING

PROJECT NO.	SHEET NO.
2025CPT.13.06.20111	12



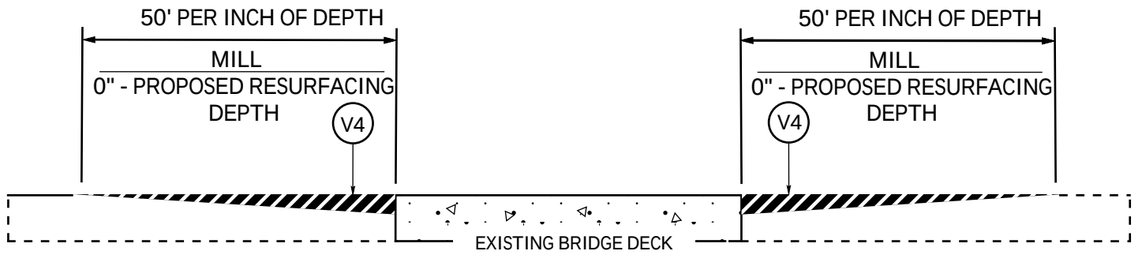
MILLING DETAIL AT BRIDGE APPROACHES

WHERE BRIDGES WILL BE MILLED THEN RESURFACED.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.
USE AT BRIDGE NUMBER: 511 MAP 9, 182 MAP 9,
364 MAP 11, 365 MAP 11, 050 MAP 11
051 MAP 11, AND 430 MAP 18.



BRIDGE DETAIL

MINIMUM LIFT THICKNESS FOR S9.5C MIX IS 1.5".
MAXIMUM LIFT THICKNESS FOR S9.5C IS 2.0", ANY LIFT
THICKNESS OVER THE MAXIMUM LIFT THICKNESS SHALL BE
PLACED IN MULTIPLE LAYERS.BRIDGE NUMBER511 MAP 9,
182 MAP 9, 364 MAP 11, 365 MAP 11, 050 MAP 11
051 MAP 11, AND 430 MAP 18
SEE MAP FOR BRIDGE LOCATION.

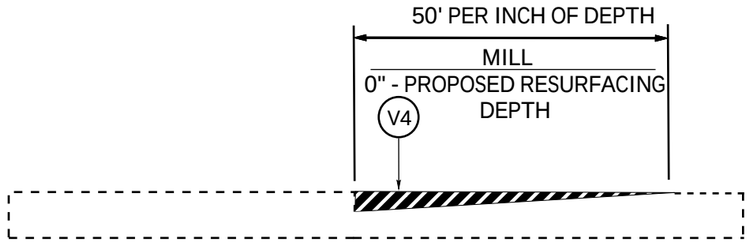


MILLING DETAIL AT BRIDGE APPROACHES

WHERE BRIDGES WILL NOT BE RESURFACED.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.
USE AT BRIDGE NUMBER: 364 MAP 19.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 100 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.50 LBS. PER SQ. YARD
C3	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C4	PATCHING ONLY
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT, 0 TO 1-1/4" DEPTH
V2	MILLING ASPHALT PAVEMENT, 0 TO 1-1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH
V4	INCIDENTAL MILLING

PROJECT NO.	SHEET NO.
2025CPT.13.06.20111	13

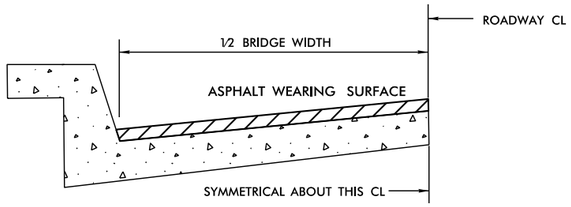


MILLING DETAIL TO TIE INTO EXIST PAVEMENT

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 9.5B OR S9.5C. THIS WILL BE PAID FOR AS INCIDENTAL MILLING.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 100 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.50 LBS. PER SQ. YARD
C3	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C4	PATCHING ONLY
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT, 0 TO 1-1/4" DEPTH
V2	MILLING ASPHALT PAVEMENT, 0 TO 1-1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH
V4	INCIDENTAL MILLING

PROJECT NO.	SHEET NO.
2025CPT.13.06.20111	14



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 – TYPE A 3/4". ULTRA–THIN HOT MIX ASPHALT – TYPE B 5/8". ULTRA–THIN HOT MIX ASPHALT – TYPE C 1/2". THE MAXIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1", S9.5B 1.5", S9.5C,D 2". ULTRA–THIN HOT MIX ASPHALT – TYPE A 3/4", ULTRA–THIN HOT MIX ASPHALT – TYPE B 5/8", ULTRA–THIN HOT MIX ASPHALT HOT MIX ASPHALT – TYPE C 1/2".

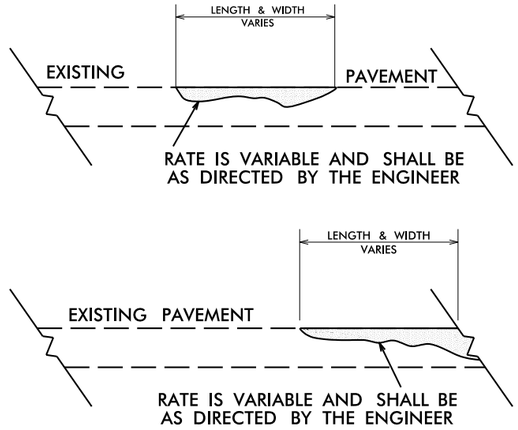
NOTES

ALL UNPAVED 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 RADII, OR AS DIRECTED BY THE ENGINEER.

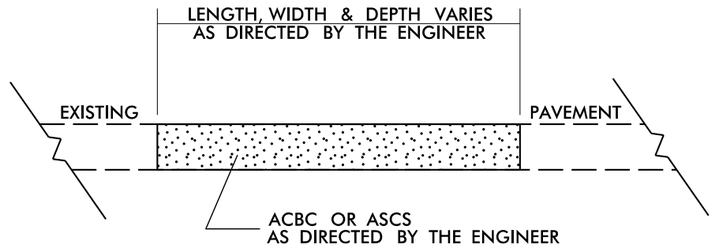
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.

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.

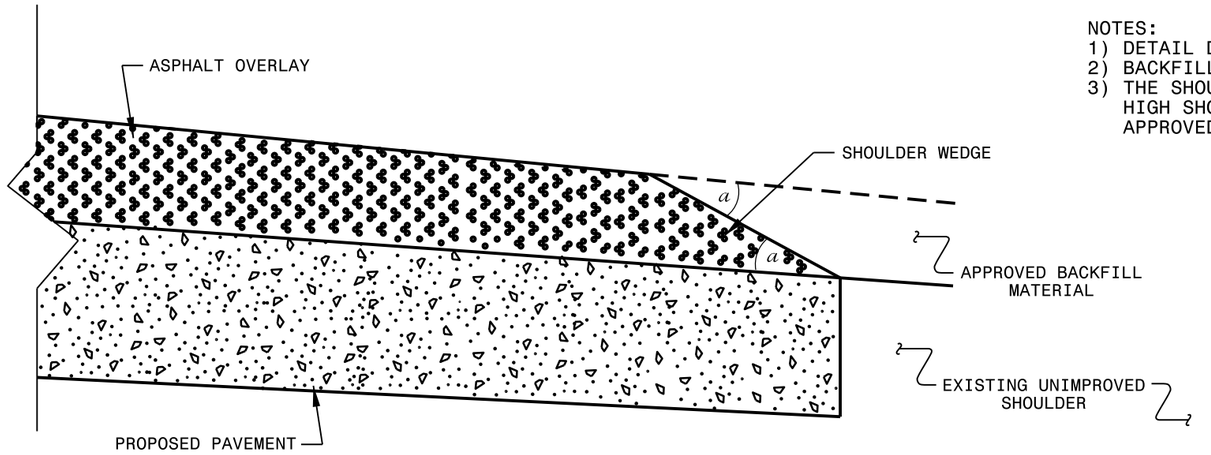


DETAIL SHOWING METHOD OF WEDGING



PATCHING EXISTING PAVEMENT

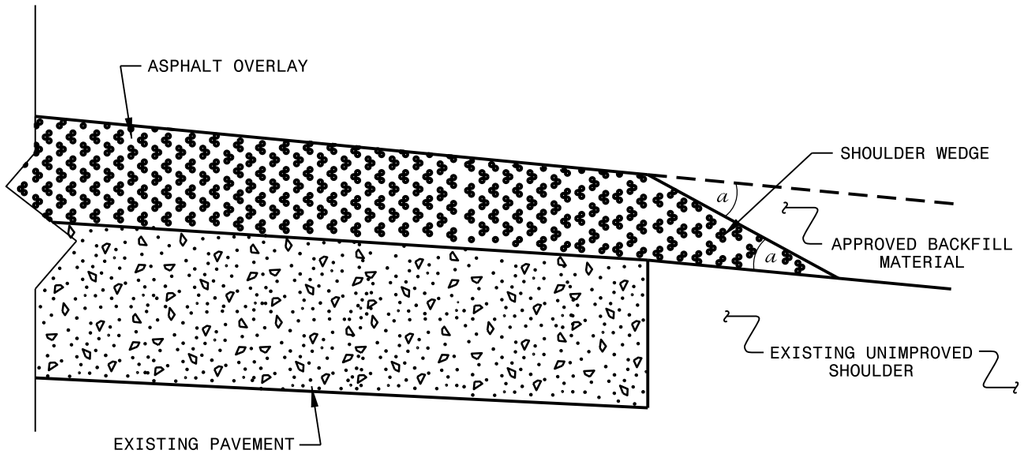
PROJECT REFERENCE NO.	SHEET NO.
2025CPT.13.06.20111	15



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, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.

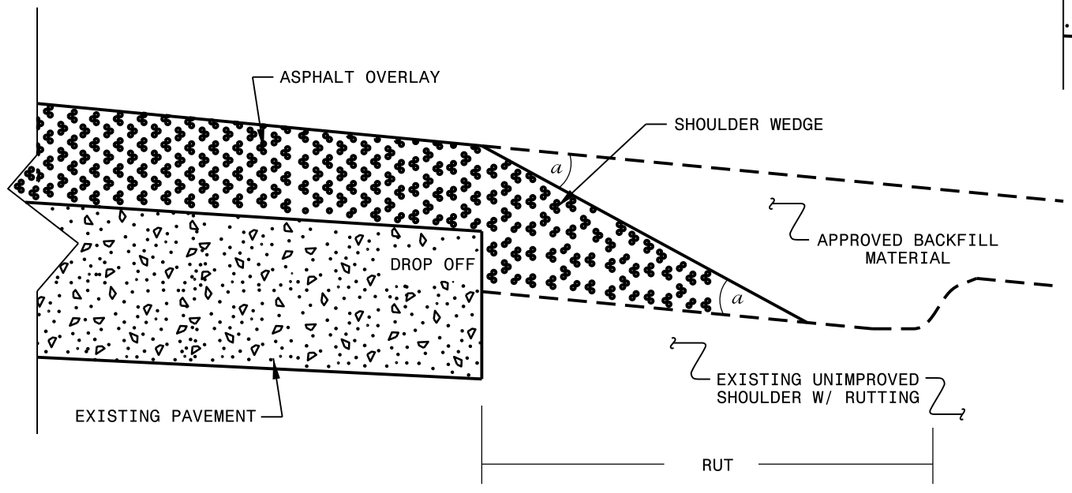
SHOULDER WEDGE DETAIL

(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°

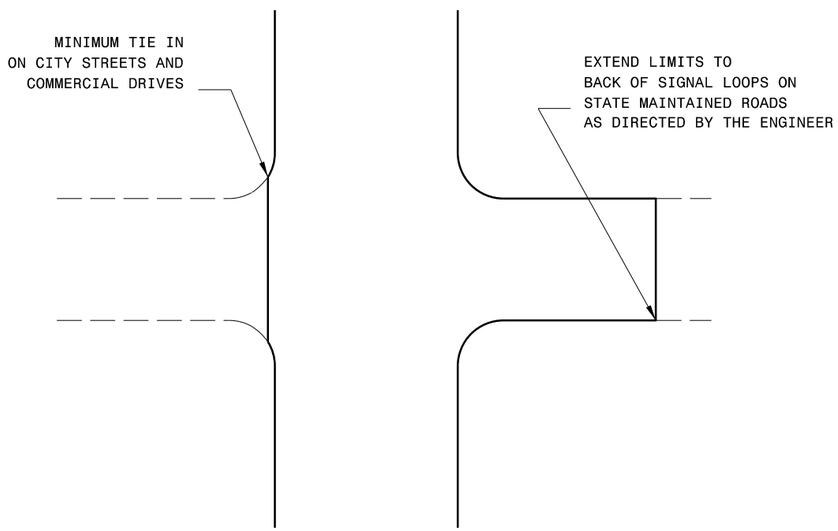
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SHOULDER WEDGE DETAILS

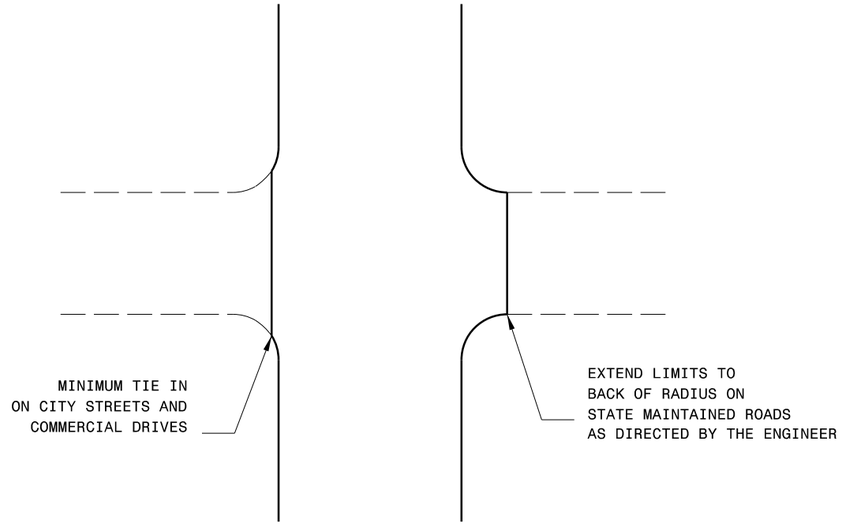
ORIGINAL BY: T.SPELL DATE: 7-19-11
MODIFIED BY: DATE: 2/2/16
CHECKED BY: DATE:
FILE SPEC.: s:usr/details/stand/shoulderwedgedetail.dgn

22-JAN-2018 09:41
S:\Contracts\Contracts\Resurfacing Projects\Division 4\I-5937 Wilson March 2018\Revised Shoulder Wedge Detail.dgn
pporter AI CSD 2925/2

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.13.06.20111	16



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)		
Extend paving limits to back of radius or loop on the following intersections:		
MAP#	STREET NAME	COMMENTS
ALL MAPS	ALL STREETS	50' TYPICAL
		EXTEND PAVING LIMITS PAST BACK OF INITIAL
		SET OF SIGNAL LOOPS OR CONCRETE ISLAND
		5' WHEN PRESENT ON SR ROADS AS DIRECTED
		BY ENGINEER
		FOLLOW DETAILS ABOVE FOR TIE - INS ON ALL
		CITY STREETS AND COMMERCIAL DRIVES

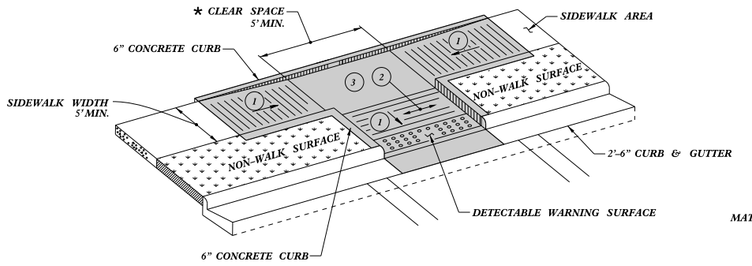
PROJECT NO.	SHEET NO.
2025CPT.13.06.20111	17

BRIDGE DATA

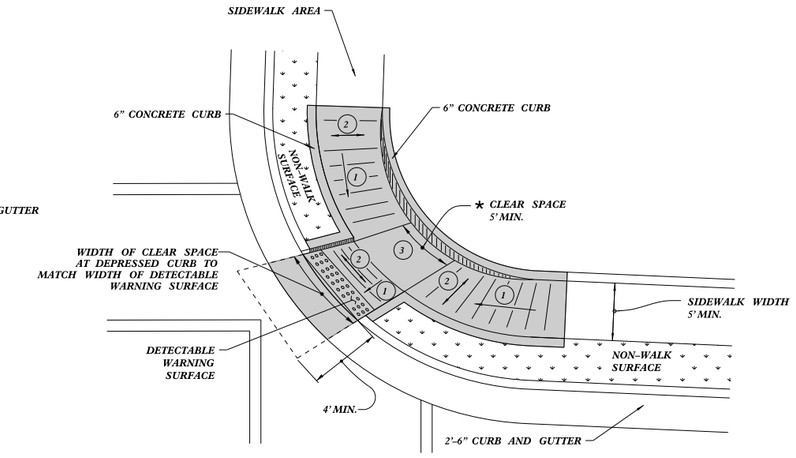
Map No.	Route No.	Route Name	Bridge No.	Posted SV	Posted TSS	Recommended Treatment, From Bridge Maintenance
9	SR 3413	SOUTH BEAR CREEK ROAD	511			MILL AND FILL
9	SR 3413	SOUTH BEAR CREEK ROAD	182			MILL AND FILL
11	SR 3431	POND ROAD	364			MILL AND FILL
11	SR 3431	POND ROAD	365			MILL AND FILL
11	SR 3431	POND ROAD	050			MILL AND FILL
11	SR 3431	POND ROAD	051			MILL AND FILL
18	SR 3486	AVERYS CREEK ROAD	430			MILL AND FILL
19	SR 3495	GLENN BRIDGE ROAD	364			DO NOT PAVE

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.13.06.20111	18

* – *WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4'MINIMUM X 5'MINIMUM, WITH 5'PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.*



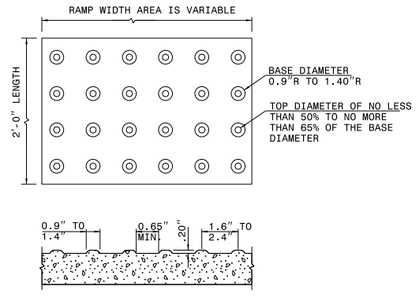
TYPE 3



TYPE 3 MODIFIED
INSTALLATION IN A RADIUS

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

(1) *8.33% (12:1) MAX RAMP SLOPE*

(2) *CROSS SLOPE: 2.00%*

(3) *MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%.*

PAY LIMITS FOR 1 CURB RAMP

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

ROADWAY DETAIL DRAWING FOR

CURB RAMP

PARALLEL RAMP

SHEET 9 OF13

848D06

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033144 NICOLE M HACKLER

Signed by:
Nicole M Hackler
5884323D34164C5...
04/01/2025

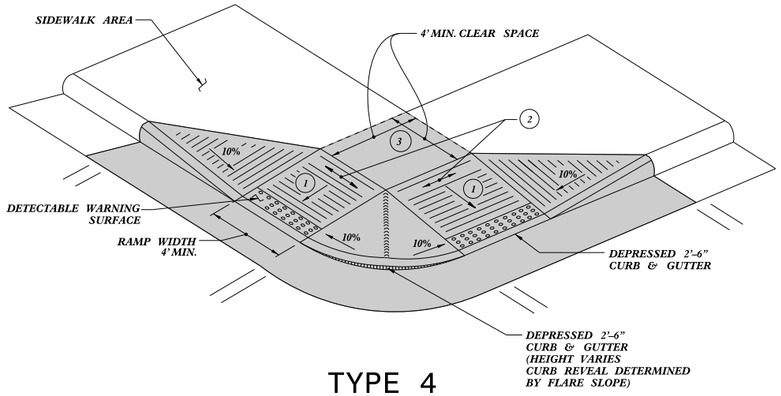
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

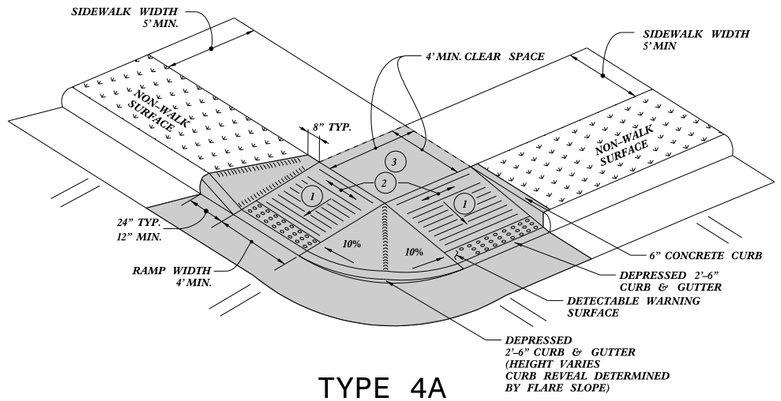
SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: special details\nmhackler\D0609.dgn

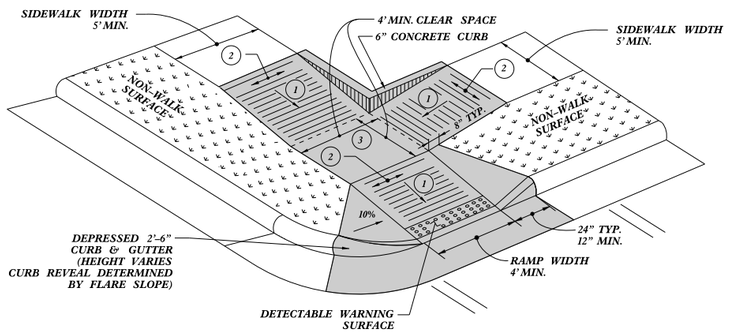
PROJECT REFERENCE NO.	SHEET NO.
2025CPT.13.06.20111	19



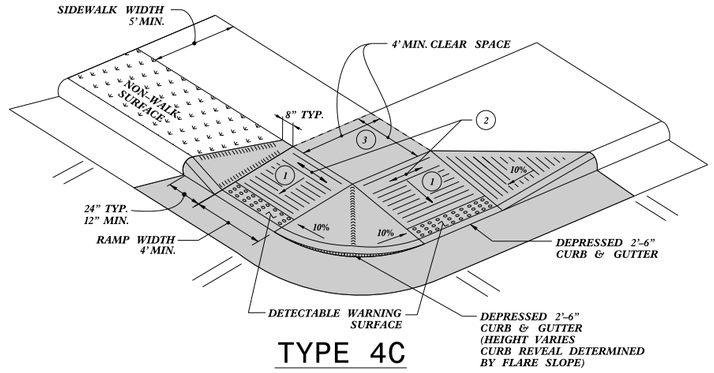
TYPE 4



TYPE 4A



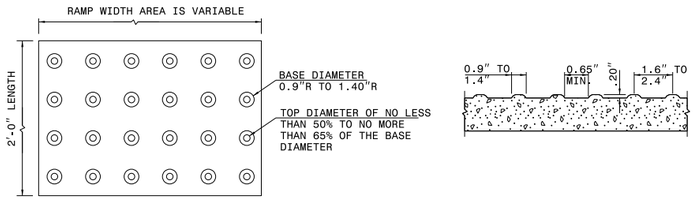
TYPE 4B



TYPE 4C

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

1. 8.33% (12:1) *MAX RAMP SLOPE*
2. *CROSS SLOPE: 2.00%*
3. *MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%.*

PAY LIMITS FOR 1 OR 2 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF DETECTABLE WARNING SURFACES

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

ROADWAY DETAIL DRAWING FOR

CURB RAMP

SHARED LANDING

SEAL 033144
NICOLE MARIE HACKLER
NORTH CAROLINA PROFESSIONAL ENGINEER
Signed by:
Nicole Marie Hackler
5884323D34164C5...
04/01/2025

SHEET 10 OF 13

848D06

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: special details\nmhackler\848D0610.dgn

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.13.06.20111	20	

SUMMARY OF QUANTITIES

													1220000000-E	1245000000-E	1260000000-E	1297000000-E	1308000000-E		1330000000-E	1519000000-E	1520000000-E	1523000000-E	1524000000-E	1526000000-E	1575000000-E	1704000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH	MILLING ASPHALT PAVEMENT, 0" TO 1-1/2"	MILLING ASPHALT PAVEMENT, 0" TO 11/4" DEPTH	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	LEVELING COURSE, TYPE S9.5B	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	LEVELING COURSE, TYPE S9.5C	ASPHALT CONC SURFACE COURSE, TYPE S4.75A	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT
								MI	FT				TON	SMI	TON	SY	SY	SY	SY	TON	TONS	TON	TONS	TON	TON	TON
2025CPT.13.06.20111	Buncombe	1	SR 1224 (WEST OAKVIEW ROAD)	FROM BEGIN MAINTENANCE TO SR 3426 (MCINTOSH ROAD)	1	2	2WD	0.4	17	0	0.4		5	0.80	104				364			372			24	40
	Buncombe	2	SR 1224 (WEST OAKVIEW ROAD)	FROM SR 3426 (MCINTOSH ROAD) TO SR 3412 (SAND HILL ROAD)	2	2	2WU	1	18	0.4	1.4		5												19	400
	Buncombe	3	SR 1338 (EMMA ROAD)	FROM SR 1332 (NORTH LOUISIANA AVENUE) TO SR 1333 (HAZEL MILL ROAD) PAVEMENT JOINT	1	2	2WD	0.5	20	1	1.5		5	2.90	377							610			43	140
	Buncombe	4	SR 1477 (RIVERSIDE DRIVE)	FROM SR 1517 (HILL STREET) PAVEMENT JOINT TO NC 251 (BROADWAY STREET)	1, 3	2	2WD	1.35	36	0.07	1.42		5	2.56	332		1,039		642			2,598			156	58
	Buncombe	5	SR 1645 (MACEDONIA ROAD)	FROM SR 1641 (JENKINS VALLEY ROAD) TO SR 1367 (OLIVETTE ROAD)	1	2	2WU	1.96	20.5	0.01	1.97		15	3.92	510				692			2,147			137	216
	Buncombe	6	SR 2472 (GROVESTONE ROAD)	FROM SR 2435 (OLD US 70 WEST) TO US 70	1	2	2WU	0.32	26	0.02	0.34		5	0.64	84				694			440			30	85
	Buncombe	7	SR 3284 (SOUTH CHARLOTTE STREET)	FROM US 25 TO US 70	3	2	MU	0.7	60	0.02	0.72		5				6,572		1,525			2,400			145	75
	Buncombe	8	SR 3412 (SAND HILL ROAD)	FROM US 19 TO BEAR CREEK ROAD (CITY STREET)	3	2	2WU	1.32	24	0.02	1.34		6				19,025		500			1,672			103	100
	Buncombe	9	SR 3413 (SOUTH BEAR CREEK ROAD)	FROM NC 191 TO SR 3412 (SAND HILLS ROAD)	1, 3	2	2WU	1.06	20.5	0.02	1.08		5	2.12	275	1,260	630		1,182			1,148			73	115
	Buncombe	10	SR 3416 (GREEN VALLEY ROAD)	FROM SR 3412 (SAND HILL ROAD) TO SR 3554 (GREEN VALLEY COURT)	4	2	2WU	0.18	19	0.01	0.19		5	0.36	47				175	160	10				12	30
	Buncombe	11	SR 3431 (POND ROAD)	FROM NC 112 TO NC 191	1, 3	2	2WU	1.92	21	0.01	1.93		17	3.15	410	1,354	1,578		1,250			2,056	100		146	400
	Buncombe	12	SR 3434 (REEVES CHAPEL ROAD)	FROM NC 112 TO END OF MAINTENANCE	4	2	2WU	0.04	17	0.01	0.05		5	0.08	12					40						4	20
	Buncombe	13	SR 3473 (OAK TERRACE ROAD)	FROM NC 112 TO SR 3474 (STRADLEY MOUNTAIN ROAD)	4	2	2WU	0.18	20	0.01	0.19		5	0.30	40				334	165					12	30
	Buncombe	14	SR 3474 (STRADLEY MOUNTAIN ROAD)	FROM NC 191 TO NC 191	4	2	2WU	0.94	18	0.02	0.96		15	1.88	245					740						53	100
	Buncombe	15	SR 3482 (FERRY ROAD)	FROM SR 3481 (DRY FERRY ROAD) TO END OF PAVEMENT	4	2	2WU	0.47	18	0.01	0.48		5	0.95	124				170	380					27	50
	Buncombe	16	SR 3483 (KNOB HILL ROAD)	FROM SR 3482 (FERRY ROAD) TO END OF MAINTENANCE	4	2	2WU	0.35	19	0	0.35		15	0.72	94					300						21	30
	Buncombe	17	SR 3485 (BALL GAP ROAD)	FROM BEGIN PAVEMENT TO NC 191	1	2	2WU	1.51	20	0.01	1.52		5	3.02	393				350			1,595	30		105	185
	Buncombe	18	SR-3486 (AVERY CREEK ROAD)	FROM NC 191 TO END OF MAINTENANCE	1	2	2WU	3.23	20	1.82	5.05		12	6.46	840				946			3,435			214	240
	Buncombe	19	SR 3495 (GLENN BRIDGE ROAD)	FROM NC 191 TO PAVEMENT CHANGE AT I 26 OVERPASS	1	2	2WU	2.4	22	0.01	2.41		40	4.80	624				1,570			2,521			175	540
	Buncombe	20	SR 3498 (LEDBETTER ROAD)	FROM PAVEMENT CHANGE TO NC 191	1	2	2WU	0.94	20	1.28	2.22		5	1.88	245				1,046			1,057	25		71	150
	Buncombe	21	SR 3521 (BEALE ROAD)	FROM SR 3495 (GLENN BRIDGE ROAD) TO SR 3522 (OLD SHOALS ROAD) PAVEMENT CHANGE	1	2	2WU	0.55	24	0.01	0.56		5	1.10	143				333			713			47	100
	Buncombe	22	SR 3523 (DUCKER ROAD)	FROM SR 3522 (OLD SHOALS ROAD) TO SR 3521 (BEALE ROAD)	4	2	2WU	0.28	19	0.01	0.29		5	0.56	73				222	245					18	50
	Buncombe	23	SR 3528 (GILLIAM ROAD)	FROM SR 3527 (BRADLEY BRANCH ROAD) TO END OF MAINTENANCE	1	2	2WU	0.16	18	0.01	0.17		5	0.32	42				100			161			11	40
	Buncombe	24	SR 3540 (UNDERWOOD ROAD)	FROM PINEY DRIVE(PRIVATE) - 05 MILE TO SR 3539 (FANNING BRIDGE ROAD)	1	2	2WU	0.15	1	0	0.15		5	0.30	39				604			197	10		17	100
	Buncombe	25	SR 3550 (OLD HEYWOOD ROAD)	FROM BEGIN MAINTENANCE AT LAKE TO SR 3552 (HEYWOOD ROAD)	4	2	2WU	0.1	16	0	0.1		5	0.20	26				134	75					6	20

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.13.06.20111	21	

SUMMARY OF QUANTITIES

													2549000000-E	2591000000-E	2612500000-N	2759000000-N	2800000000-N	2815000000-N	2830000000-N	2845000000-N	2846000000-N	7444000000-E	7456100000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		2'-6" CONCRETE CURB & GUTTER	4" CONCRETE SIDEWALK	REMOVE AND REPLACE CONCRETE CURB RAMPS	REMOVE CURB RAMP	ADJUSTMENT OF CATCH BASINS	ADJUSTMENT OF DROP INLET	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	ADJUSTMENT OF OVERSIZED MANHOLES	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
								MI	FT				LF	SY	EA	EA	EA	EA	EA	EA	EA	LF	LF
2025CPT.13.06.20111	Buncombe	1	SR 1224 (WEST OAKVIEW ROAD)	FROM BEGIN MAINTENANCE TO SR 3426 (MCINTOSH ROAD)	1	2	2WD	0.4	17	0	0.4												
	Buncombe	2	SR 1224 (WEST OAKVIEW ROAD)	FROM SR 3426 (MCINTOSH ROAD) TO SR 3412 (SAND HILL ROAD)	2	2	2WU	1	18	0.4	1.4											168	20
	Buncombe	3	SR 1338 (EMMA ROAD)	FROM SR 1332 (NORTH LOUISIANA AVENUE) TO SR 1333 (HAZEL MILL ROAD) PAVEMENT JOINT	1	2	2WD	0.5	20	1	1.5											168	20
	Buncombe	4	SR 1477 (RIVERSIDE DRIVE)	FROM SR 1517 (HILL STREET) PAVEMENT JOINT TO NC 251 (BROADWAY STREET)	1, 3	2	2WD	1.35	36	0.07	1.42							9	1	6		384	250
	Buncombe	5	SR 1645 (MACEDONIA ROAD)	FROM SR 1641 (JENKINS VALLEY ROAD) TO SR 1367 (OLIVETTE ROAD)	1	2	2WU	1.96	20.5	0.01	1.97									1			
	Buncombe	6	SR 2472 (GROVESTONE ROAD)	FROM SR 2435 (OLD US 70 WEST) TO US 70	1	2	2WU	0.32	26	0.02	0.34											288	20
	Buncombe	7	SR 3284 (SOUTH CHARLOTTE STREET)	FROM US 25 TO US 70	3	2	MU	0.7	60	0.02	0.72	105	78	17	7		1	4	9	1	1,180	250
	Buncombe	8	SR 3412 (SAND HILL ROAD)	FROM US 19 TO BEAR CREEK ROAD (CITY STREET)	3	2	2WU	1.32	24	0.02	1.34			7		8		18	8		187	250
	Buncombe	9	SR 3413 (SOUTH BEAR CREEK ROAD)	FROM NC 191 TO SR 3412 (SAND HILLS ROAD)	1, 3	2	2WU	1.06	20.5	0.02	1.08							10	4	8	270	
	Buncombe	10	SR 3416 (GREEN VALLEY ROAD)	FROM SR 3412 (SAND HILL ROAD) TO SR 3554 (GREEN VALLEY COURT)	4	2	2WU	0.18	19	0.01	0.19												
	Buncombe	11	SR 3431 (POND ROAD)	FROM NC 112 TO NC 191	1, 3	2	2WU	1.92	21	0.01	1.93								3		310	20
	Buncombe	12	SR 3434 (REEVES CHAPEL ROAD)	FROM NC 112 TO END OF MAINTENANCE	4	2	2WU	0.04	17	0.01	0.05												
	Buncombe	13	SR 3473 (OAK TERRACE ROAD)	FROM NC 112 TO SR 3474 (STRADLEY MOUNTAIN ROAD)	4	2	2WU	0.18	20	0.01	0.19								2				
	Buncombe	14	SR 3474 (STRADLEY MOUNTAIN ROAD)	FROM NC 191 TO NC 191	4	2	2WU	0.94	18	0.02	0.96												
	Buncombe	15	SR 3482 (FERRY ROAD)	FROM SR 3481 (DRY FERRY ROAD) TO END OF PAVEMENT	4	2	2WU	0.47	18	0.01	0.48							1	1				
	Buncombe	16	SR 3483 (KNOB HILL ROAD)	FROM SR 3482 (FERRY ROAD) TO END OF MAINTENANCE	4	2	2WU	0.35	19	0	0.35												
	Buncombe	17	SR 3485 (BALL GAP ROAD)	FROM BEGIN PAVEMENT TO NC 191	1	2	2WU	1.51	20	0.01	1.52							1					
	Buncombe	18	SR-3486 (AVERY CREEK ROAD)	FROM NC 191 TO END OF MAINTENANCE	1	2	2WU	3.23	20	1.82	5.05							22	11				
	Buncombe	19	SR 3495 (GLENN BRIDGE ROAD)	FROM NC 191 TO PAVEMENT CHANGE AT I 26 OVERPASS	1	2	2WU	2.4	22	0.01	2.41												
	Buncombe	20	SR 3498 (LEDBETTER ROAD)	FROM PAVEMENT CHANGE TO NC 191	1	2	2WU	0.94	20	1.28	2.22												
	Buncombe	21	SR 3521 (BEALE ROAD)	FROM SR 3495 (GLENN BRIDGE ROAD) TO SR 3522 (OLD SHOALS ROAD) PAVEMENT CHANGE	1	2	2WU	0.55	24	0.01	0.56							1	3				
	Buncombe	22	SR 3523 (DUCKER ROAD)	FROM SR 3522 (OLD SHOALS ROAD) TO SR 3521 (BEALE ROAD)	4	2	2WU	0.28	19	0.01	0.29							1					
	Buncombe	23	SR 3528 (GILLIAM ROAD)	FROM SR 3527 (BRADLEY BRANCH ROAD) TO END OF MAINTENANCE	1	2	2WU	0.16	18	0.01	0.17												
	Buncombe	24	SR 3540 (UNDERWOOD ROAD)	FROM PINEY DRIVE(PRIVATE) - 05 MILE TO SR 3539 (FANNING BRIDGE ROAD)	1	2	2WU	0.15	1	0	0.15								1				
	Buncombe	25	SR 3550 (OLD HEYWOOD ROAD)	FROM BEGIN MAINTENANCE AT LAKE TO SR 3552 (HEYWOOD ROAD)	4	2	2WU	0.1	16	0	0.1												

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.13.06.20111	22	

SUMMARY OF QUANTITIES

												1220000000-E	1245000000-E	1260000000-E	1297000000-E	1308000000-E		1330000000-E	1519000000-E	1520000000-E	1523000000-E	1524000000-E	1526000000-E	1575000000-E	1704000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH	MILLING ASPHALT PAVEMENT, 0" TO 1-1/2"	MILLING ASPHALT PAVEMENT, 0" TO 11/4" DEPTH	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	LEVELING COURSE, TYPE S9.5B	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	LEVELING COURSE, TYPE S9.5C	ASPHALT CONC SURFACE COURSE, TYPE S4.75A	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT
								MI	FT			TON	SMI	TON	SY	SY	SY	SY	TON	TONS	TON	TONS	TON	TON	TON
2025CPT.13.06.20111	Buncombe	26	SR 3550 (HEYWOOD ROAD)	FROM SR 3521 (OLD SHOALS ROAD) TO END OF MAINTENANCE	1	2	2WU	0.25	24	0.2	0.45	5	0.50	65				133			331			23	75
	Buncombe	27	SR 3551 (HEYWOOD ROAD)	FROM SR 3552 (HEYWOOD ROAD) TO SR 3550 (OLD HEYWOOD ROAD)	4	2	2WU	0.03	16	0.27	0.3	5	0.60	8				133	25					3	20
	Buncombe	28	SR 3554 (GREEN VALLEY ROAD/GREEN VALLEY COURT)	FROM BEGINS AT CULVERT(BOTTOM OF HILL) TO MILE POST .15	4	2	2WU	0.15	18.5	0	0.15	5	0.30	39				300	128	10				11	40
	Buncombe	29	SR 3568 (ROCKWOOD ROAD)	FROM HENDERSON COUNTY LINE TO +.05 MI. FROM FLYCATCHER WAY INTERSECTION	1, 3	2	2WU	0.76	22	0	0.76	5	0.76	100		3,220		368			883	50		65	200
	Buncombe	30	SR 3579 (HOLLY HILL DRIVE)	FROM SR 3617 (PARKWOOD DRIVE) TO END OF MAINTENANCE	4	2	2WU	0.17	1	0.01	0.18	5	0.48	63				170	213					14	11
	Buncombe	31	SR 3585 (OLD BREVARD ROAD/OVERLAND INDUSTRIAL BOULEVARD)	FROM NC 191 TO NC 191	3, 5	2	2WU	0.19	15	0.01	0.2	5	0.11	15	1,528	420					224			14	11
	Buncombe	32	SR 3615 (HOLLY STREET)	FROM NC 191 TO SR 3473 (OAK TERRACE ROAD)	4	2	2WU	0.04	18	0.02	0.06	5	0.08	11				150	35					3	11
	Buncombe	33	SR 3616 (LAUREL PARK DRIVE)	FROM NC 191 TO SR 3579 (HOLLY HILL DRIVE)	4	2	2WU	0.24	21	0.01	0.25	5	0.50	65				175	230					16	15
	Buncombe	34	SR 3618 (FISK DRIVE)	FROM SR 3522 (OLD SHOALS ROAD) TO END OF MAINTENANCE	4	2	2WU	0.18	24	0.01	0.19	5	0.38	50				175	190					13	11
	Buncombe	35	SR 3629 (AVERYS CREEK LANE)	FROM NC 191 TO CUL DE SAC	4, 6	2	2WU	0.35	20.5	0.01	0.36	5	0.30	39			1,440	340	331					24	50
	Buncombe	36	SR 3642 (PARK SOUTH BOULEVARD)	FROM NC 191 TO END OF MAINTENANCE	1	2	2WU	0.19	25	0.01	0.2	10	0.42	55				210			275			19	50
	Buncombe	37	SR 3654 (OVERLAND INDUSTRIAL BOULEVARD)	FROM SR 3585 (OLD BREVARD ROAD) TO END OF MAINTENANCE	1, 3	2	2WU	0.16	28	0	0.16	5	0.30	39		75		207			232			16	40
	Buncombe	38	SR 3656 (WINDING OAK DRIVE)	FROM SR 3524 (NEW ROCKWOOD ROAD) TO CUL DE SAC	7	2	2WU	0.22	18	0.01	0.23	5											165	12	11
	Buncombe	39	SR 3657 (WOOD GLEN COURT)	FROM SR 3656 (WINDING OAK DRIVE) TO CUL DE SAC	7	2	2WU	0.06	18	0	0.06	5											60	5	11
	Buncombe	40	SR 3666 (YORKTOWN CIRCLE)	FROM SR 3498 (LEDBETTER ROAD) TO SR 3666 (YORKTOWN CIRCLE)	7	2	2WU	0.31	22	0.01	0.32	5											243	18	25
	Buncombe	41	SR 3667 (GROTON WAY)	FROM SR 3666 (YORKTOWN CIRCLE) TO CUL DE SAC	7	2	2WU	0.14	22	0	0.14	5											134	11	30
	Buncombe	42	SR 3668 (SELINA LANE)	FROM SR 3666 (YORKTOWN CIRCLE) TO CUL DE SAC	7	2	2WU	0.05	22	0	0.05	5											63	5	11
	Buncombe	43	SR 3669 (ASHLEY WOODS DRIVE)	FROM NC 191 TO CUL DE SAC	4, 6	2	2WU	0.42	23	0.01	0.43	5	0.55	72			988	192	436					33	100
	Buncombe	44	SR 3670 (CAROLINA BLUE BIRD LOOP)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO SR 3669 (ASHLEY WOODS DRIVE)	6	2	2WU	0.39	1	0	0.39	5					3,754		450					30	11
	Buncombe	45	SR 3671 (NUT HATCH LOOP)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO SR 3485 (BALL GAP ROAD)	6	2	2WU	0.17	1	0	0.17	5					1,596		180					12	11
	Buncombe	46	SR 3672 (SCARLET TANAGER COURT)	FROM (SR 3669 (ASHLEY WOODS DRIVE) TO CUL DE SAC	4	2	2WU	0.39	23	0	0.39	5	0.78	102					350					25	40
	Buncombe	47	SR 3673 (PURPLE FINCH COURT)	FROM SR 3672 (SCARLET TANAGER COURT) TO CUL DE SAC	4	2	2WU	0.13	1	0	0.13	5	0.26	35					130					9	11
	Buncombe	48	SR 3674 (WOOD THRUSH COURT)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO CUL DE SAC	4	2	2WU	0.21	18	0	0.21	5	0.42	55					199					13	11
	Buncombe	49	SR 3675 (FOUNDERS WAY)	FROM SR 3527 (BRADLEY BRANCH ROAD) TO CUL DE SAC	4	2	2WU	0.5	18	0.01	0.51	10	1.00	130				275	420					31	75
	Buncombe	50	SR 3676 (ZACHS PLACE)	FROM SR 3675 (FOUNDERS WAY) TO CUL DE SAC	4	2	2WU	0.02	21	0	0.02	5	0.04	6					50					4	15
	Buncombe	51	SR 3677 (PICKERS COURT)	FROM SR 3675 (FOUNDERS WAY) TO CUL DE SAC	4	2	2WU	0.02	20	0	0.02	5	0.06	8					50	5				4	15
TOTAL FOR PROJ NO. 2025CPT.13.06.20111								**27.75**				**350**	**46.86**	**6,036**	**4,142**	**32,559**	**7,778**	**15,661**	**5,522**	**25**	**25,067**	**215**	**665**	**2,102**	**4,225**
																40,337									
GRAND TOTAL								**27.75**				**350**	**46.86**	**6,036**	**4,142**	**32,559**	**7,778**	**15,661**	**5,522**	**25**	**25,067**	**215**	**665**	**2,102**	**4,225**
																40,337									

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.13.06.20111	23	

SUMMARY OF QUANTITIES

												2549000000-E	2591000000-E	2612500000-N	2759000000-N	2800000000-N	2815000000-N	2830000000-N	2845000000-N	2846000000-N	7444000000-E	7456100000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	2'-6" CONCRETE CURB & GUTTER	4" CONCRETE SIDEWALK	REMOVE AND REPLACE CONCRETE CURB RAMPS	REMOVE CURB RAMP	ADJUSTMENT OF CATCH BASINS	ADJUSTMENT OF DROP INLET	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	ADJUSTMENT OF OVERSIZED MANHOLES	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
								MI	FT			LF	SY	EA	EA	EA	EA	EA	EA	EA	LF	LF
2025CPT.13.06.20111	Buncombe	26	SR 3550 (HEYWOOD ROAD)	FROM SR 3521 (OLD SHOALS ROAD) TO END OF MAINTENANCE	1	2	2WU	0.25	24	0.2	0.45											
	Buncombe	27	SR 3551 (HEYWOOD ROAD)	FROM SR 3552 (HEYWOOD ROAD) TO SR 3550 (OLD HEYWOOD ROAD)	4	2	2WU	0.03	16	0.27	0.3											
	Buncombe	28	SR 3554 (GREEN VALLEY ROAD/GREEN VALLEY COURT)	FROM BEGINS AT CULVERT(BOTTOM OF HILL) TO MILE POST .15	4	2	2WU	0.15	18.5	0	0.15											
	Buncombe	29	SR 3568 (ROCKWOOD ROAD)	FROM HENDERSON COUNTY LINE TO +.05 MI. FROM FLYCATCHER WAY INTERSECTION	1, 3	2	2WU	0.76	22	0	0.76							7				
	Buncombe	30	SR 3579 (HOLLY HILL DRIVE)	FROM SR 3617 (PARKWOOD DRIVE) TO END OF MAINTENANCE	4	2	2WU	0.17	1	0.01	0.18											
	Buncombe	31	SR 3585 (OLD BREVARD ROAD/OVERLAND INDUSTRIAL BOULEVARD)	FROM NC 191 TO NC 191	3, 5	2	2WU	0.19	15	0.01	0.2											
	Buncombe	32	SR 3615 (HOLLY STREET)	FROM NC 191 TO SR 3473 (OAK TERRACE ROAD)	4	2	2WU	0.04	18	0.02	0.06											
	Buncombe	33	SR 3616 (LAUREL PARK DRIVE)	FROM NC 191 TO SR 3579 (HOLLY HILL DRIVE)	4	2	2WU	0.24	21	0.01	0.25											
	Buncombe	34	SR 3618 (FISK DRIVE)	FROM SR 3522 (OLD SHOALS ROAD) TO END OF MAINTENANCE	4	2	2WU	0.18	24	0.01	0.19											
	Buncombe	35	SR 3629 (AVERYS CREEK LANE)	FROM NC 191 TO CUL DE SAC	4, 6	2	2WU	0.35	20.5	0.01	0.36											
	Buncombe	36	SR 3642 (PARK SOUTH BOULEVARD)	FROM NC 191 TO END OF MAINTENANCE	1	2	2WU	0.19	25	0.01	0.2								1		105	20
	Buncombe	37	SR 3654 (OVERLAND INDUSTRIAL BOULEVARD)	FROM SR 3585 (OLD BREVARD ROAD) TO END OF MAINTENANCE	1, 3	2	2WU	0.16	28	0	0.16							5				
	Buncombe	38	SR 3656 (WINDING OAK DRIVE)	FROM SR 3524 (NEW ROCKWOOD ROAD) TO CUL DE SAC	7	2	2WU	0.22	18	0.01	0.23											
	Buncombe	39	SR 3657 (WOOD GLEN COURT)	FROM SR 3656 (WINDING OAK DRIVE) TO CUL DE SAC	7	2	2WU	0.06	18	0	0.06											
	Buncombe	40	SR 3666 (YORKTOWN CIRCLE)	FROM SR 3498 (LEDBETTER ROAD) TO SR 3666 (YORKTOWN CIRCLE)	7	2	2WU	0.31	22	0.01	0.32											
	Buncombe	41	SR 3667 (GROTON WAY)	FROM SR 3666 (YORKTOWN CIRCLE) TO CUL DE SAC	7	2	2WU	0.14	22	0	0.14											
	Buncombe	42	SR 3668 (SELINA LANE)	FROM SR 3666 (YORKTOWN CIRCLE) TO CUL DE SAC	7	2	2WU	0.05	22	0	0.05											
	Buncombe	43	SR 3669 (ASHLEY WOODS DRIVE)	FROM NC 191 TO CUL DE SAC	4, 6	2	2WU	0.42	23	0.01	0.43							13				
	Buncombe	44	SR 3670 (CAROLINA BLUE BIRD LOOP)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO SR 3669 (ASHLEY WOODS DRIVE)	6	2	2WU	0.39	1	0	0.39											
	Buncombe	45	SR 3671 (NUT HATCH LOOP)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO SR 3485 (BALL GAP ROAD)	6	2	2WU	0.17	1	0	0.17							5				
	Buncombe	46	SR 3672 (SCARLET TANAGER COURT)	FROM (SR 3669 (ASHLEY WOODS DRIVE) TO CUL DE SAC	4	2	2WU	0.39	23	0	0.39							13				
	Buncombe	47	SR 3673 (PURPLE FINCH COURT)	FROM SR 3672 (SCARLET TANAGER COURT) TO CUL DE SAC	4	2	2WU	0.13	1	0	0.13							3				
	Buncombe	48	SR 3674 (WOOD THRUSH COURT)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO CUL DE SAC	4	2	2WU	0.21	18	0	0.21							6				
	Buncombe	49	SR 3675 (FOUNDERS WAY)	FROM SR 3527 (BRADLEY BRANCH ROAD) TO CUL DE SAC	4	2	2WU	0.5	18	0.01	0.51							6				
	Buncombe	50	SR 3676 (ZACHS PLACE)	FROM SR 3675 (FOUNDERS WAY) TO CUL DE SAC	4	2	2WU	0.02	21	0	0.02							1	2			
	Buncombe	51	SR 3677 (PICKERS COURT)	FROM SR 3675 (FOUNDERS WAY) TO CUL DE SAC	4	2	2WU	0.02	20	0	0.02											
TOTAL FOR PROJ NO. 2025CPT.13.06.20111								**27.75**				**105**	**78**	**24**	**7**	**8**	**10**	**118**	**52**	**9**	**3,060**	**850**
GRAND TOTAL								**27.75**				**105**	**78**	**24**	**7**	**8**	**10**	**118**	**52**	**9**	**3,060**	**850**

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.13.06.20111	24	

THERMOPLASTIC AND PAINT QUANTITIES

													4413000000-E	4447000000-E	4457000000-N	4695000000-E		4700000000-E	4709000000-E		4720000000-E	4725000000-E					4726110000-E	4890000000-E	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		WORK ZONE ADVANCE /GENERAL WARNING SIGNING	PEDESTRIAN CHANNELIZING DEVICES	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE STOP BAR	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE HI-VISIBILTY CROSSWA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) SCHOOL	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) RT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR & LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR & RT ARROW	HEATED-IN-PLACE THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) BIKE SYMBOL STR ARROW	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 55 MILS)(WHITE)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 55 MILS)(YELLOW)
								MI	FT				SF	LF	LS	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	LF	LF
	Buncombe	1	SR 1224 (WEST OAKVIEW ROAD)	FROM BEGIN MAINTENANCE TO SR 3426 (MCINTOSH ROAD)	1	2	2WD	0.4	17	0	0.4		45		1													4,224	4,224
	Buncombe	2	SR 1224 (WEST OAKVIEW ROAD)	FROM SR 3426 (MCINTOSH ROAD) TO SR 3412 (SAND HILL ROAD)	2	2	2WU	1	18	0.4	1.4		112															10,560	10,560
	Buncombe	3	SR 1338 (EMMA ROAD)	FROM SR 1332 (NORTH LOUISIANA AVENUE) TO SR 1333 (HAZEL MILL ROAD) PAVEMENT JOINT	1	2	2WD	0.5	20	1	1.5		163						10									5,914	5,914
	Buncombe	4	SR 1477 (RIVERSIDE DRIVE)	FROM SR 1517 (HILL STREET) PAVEMENT JOINT TO NC 251 (BROADWAY STREET)	1, 3	2	2WD	1.35	36	0.07	1.42		152						55	84		16					15	15,374	15,722
	Buncombe	5	SR 1645 (MACEDONIA ROAD)	FROM SR 1641 (JENKINS VALLEY ROAD) TO SR 1367 (OLIVETTE ROAD)	1	2	2WU	1.96	20.5	0.01	1.97		220															20,698	20,698
	Buncombe	6	SR 2472 (GROVESTONE ROAD)	FROM SR 2435 (OLD US 70 WEST) TO US 70	1	2	2WU	0.32	26	0.02	0.34		36										1	1				3,380	3,380
	Buncombe	7	SR 3284 (SOUTH CHARLOTTE STREET)	FROM US 25 TO US 70	3	2	MU	0.7	60	0.02	0.72		126	32		66			80	364		21	3		8	4		2,765	8,992
	Buncombe	8	SR 3412 (SAND HILL ROAD)	FROM US 19 TO BEAR CREEK ROAD (CITY STREET)	3	2	2WU	1.32	24	0.02	1.34		148	24				48	118		12							13,938
	Buncombe	9	SR 3413 (SOUTH BEAR CREEK ROAD)	FROM NC 191 TO SR 3412 (SAND HILLS ROAD)	1, 3	2	2WU	1.06	20.5	0.02	1.08		119									1	1		1			11,194	11,194
	Buncombe	10	SR 3416 (GREEN VALLEY ROAD)	FROM SR 3412 (SAND HILL ROAD) TO SR 3554 (GREEN VALLEY COURT)	4	2	2WU	0.18	19	0.01	0.19		22																
	Buncombe	11	SR 3431 (POND ROAD)	FROM NC 112 TO NC 191	1, 3	2	2WU	1.92	21	0.01	1.93		216						26			1	1					19,075	19,075
	Buncombe	12	SR 3434 (REEVES CHAPEL ROAD)	FROM NC 112 TO END OF MAINTENANCE	4	2	2WU	0.04	17	0.01	0.05		5																
	Buncombe	13	SR 3473 (OAK TERRACE ROAD)	FROM NC 112 TO SR 3474 (STRADLEY MOUNTAIN ROAD)	4	2	2WU	0.18	20	0.01	0.19		21																
	Buncombe	14	SR 3474 (STRADLEY MOUNTAIN ROAD)	FROM NC 191 TO NC 191	4	2	2WU	0.94	18	0.02	0.96		106															9,820	9,820
	Buncombe	15	SR 3482 (FERRY ROAD)	FROM SR 3481 (DRY FERRY ROAD) TO END OF PAVEMENT	4	2	2WU	0.47	18	0.01	0.48		53																
	Buncombe	16	SR 3483 (KNOB HILL ROAD)	FROM SR 3482 (FERRY ROAD) TO END OF MAINTENANCE	4	2	2WU	0.35	19	0	0.35		40																
	Buncombe	17	SR 3485 (BALL GAP ROAD)	FROM BEGIN PAVEMENT TO NC 191	1	2	2WU	1.51	20	0.01	1.52		171															12,989	12,989
	Buncombe	18	SR-3486 (AVERY CREEK ROAD)	FROM NC 191 TO END OF MAINTENANCE	1	2	2WU	3.23	20	1.82	5.05		362															34,108	34,108
	Buncombe	19	SR 3495 (GLENN BRIDGE ROAD)	FROM NC 191 TO PAVEMENT CHANGE AT I 26 OVERPASS	1	2	2WU	2.4	22	0.01	2.41		3															22,915	22,915
	Buncombe	20	SR 3498 (LEDBETTER ROAD)	FROM PAVEMENT CHANGE TO NC 191	1	2	2WU	0.94	20	1.28	2.22		106															9,926	9,926
	Buncombe	21	SR 3521 (BEALE ROAD)	FROM SR 3495 (GLENN BRIDGE ROAD) TO SR 3522 (OLD SHOALS ROAD) PAVEMENT CHANGE	1	2	2WU	0.55	24	0.01	0.56		62															5,808	5,808
	Buncombe	22	SR 3523 (DUCKER ROAD)	FROM SR 3522 (OLD SHOALS ROAD) TO SR 3521 (BEALE ROAD)	4	2	2WU	0.28	19	0.01	0.29		32															2,956	2,956
	Buncombe	23	SR 3528 (GILLIAM ROAD)	FROM SR 3527 (BRADLEY BRANCH ROAD) TO END OF MAINTENANCE	1	2	2WU	0.16	18	0.01	0.17		18																
	Buncombe	24	SR 3540 (UNDERWOOD ROAD)	FROM PINEY DRIVE(PRIVATE) - 05 MILE TO SR 3539 (FANNING BRIDGE ROAD)	1	2	2WU	0.15	1	0	0.15		17				40											1,670	1,670
	Buncombe	25	SR 3550 (OLD HEYWOOD ROAD)	FROM BEGIN MAINTENANCE AT LAKE TO SR 3552 (HEYWOOD ROAD)	4	2	2WU	0.1	16	0	0.1		12																

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.13.06.20111	25	

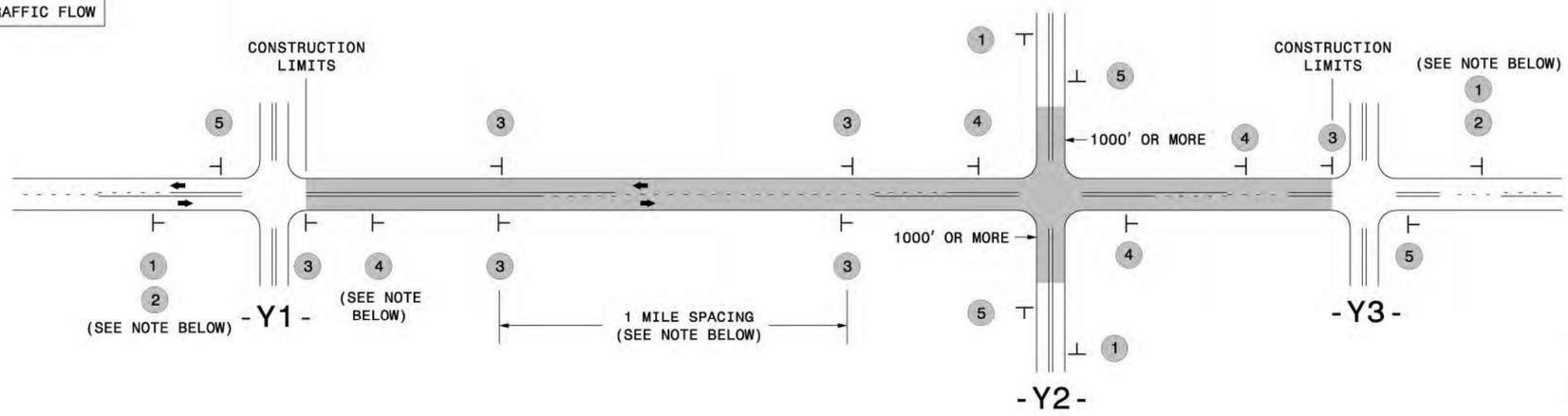
THERMOPLASTIC AND PAINT QUANTITIES

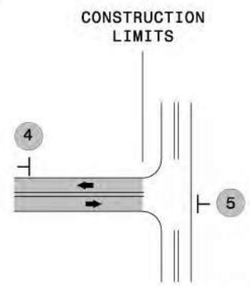
													4413000000-E	4447000000-E	4457000000-N	4695000000-E		4700000000-E	4709000000-E		4720000000-E	4725000000-E					4726110000-E	4890000000-E	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		WORK ZONE ADVANCE /GENERAL WARNING SIGNING	PEDESTRIAN CHANNELIZING DEVICES	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE STOP BAR	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE HI-VISIBILTY CROSSWA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) SCHOOL	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) RT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR & LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR & RT ARROW	HEATED-IN-PLACE THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) BIKE SYMBOL STR ARROW	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 55 MILS)(WHITE)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES (4", 55 MILS)(YELLOW)
								MI	FT				SF	LF	LS	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	LF	LF
2025CPT.13.06.20111	Buncombe	26	SR 3550 (HEYWOOD ROAD)	FROM SR 3521 (OLD SHOALS ROAD) TO END OF MAINTENANCE	1	2	2WU	0.25	24	0.2	0.45		51															2,745	2,745
	Buncombe	27	SR 3551 (HEYWOOD ROAD)	FROM SR 3552 (HEYWOOD ROAD) TO SR 3550 (OLD HEYWOOD ROAD)	4	2	2WU	0.03	16	0.27	0.3		4																
	Buncombe	28	SR 3554 (GREEN VALLEY ROAD/GREEN VALLEY COURT)	FROM BEGINS AT CULVERT(BOTTOM OF HILL) TO MILE POST .15	4	2	2WU	0.15	18.5	0	0.15		17																
	Buncombe	29	SR 3568 (ROCKWOOD ROAD)	FROM HENDERSON COUNTY LINE TO +.05 MI. FROM FLYCATCHER WAY INTERSECTION	1, 3	2	2WU	0.76	22	0	0.76		86															4,074	8,026
	Buncombe	30	SR 3579 (HOLLY HILL DRIVE)	FROM SR 3617 (PARKWOOD DRIVE) TO END OF MAINTENANCE	4	2	2WU	0.17	1	0.01	0.18		20																
	Buncombe	31	SR 3585 (OLD BREVARD ROAD/OVERLAND INDUSTRIAL BOULEVARD)	FROM NC 191 TO NC 191	3, 5	2	2WU	0.19	15	0.01	0.2		22						12			2						671	800
	Buncombe	32	SR 3615 (HOLLY STREET)	FROM NC 191 TO SR 3473 (OAK TERRACE ROAD)	4	2	2WU	0.04	18	0.02	0.06		7																
	Buncombe	33	SR 3616 (LAUREL PARK DRIVE)	FROM NC 191 TO SR 3579 (HOLLY HILL DRIVE)	4	2	2WU	0.24	21	0.01	0.25		27																
	Buncombe	34	SR 3618 (FISK DRIVE)	FROM SR 3522 (OLD SHOALS ROAD) TO END OF MAINTENANCE	4	2	2WU	0.18	24	0.01	0.19		21																
	Buncombe	35	SR 3629 (AVERYS CREEK LANE)	FROM NC 191 TO CUL DE SAC	4, 6	2	2WU	0.35	20.5	0.01	0.36		40																
	Buncombe	36	SR 3642 (PARK SOUTH BOULEVARD)	FROM NC 191 TO END OF MAINTENANCE	1	2	2WU	0.19	25	0.01	0.2		22						15									2,112	2,112
	Buncombe	37	SR 3654 (OVERLAND INDUSTRIAL BOULEVARD)	FROM SR 3585 (OLD BREVARD ROAD) TO END OF MAINTENANCE	1, 3	2	2WU	0.16	28	0	0.16		18															1,689	1,689
	Buncombe	38	SR 3656 (WINDING OAK DRIVE)	FROM SR 3524 (NEW ROCKWOOD ROAD) TO CUL DE SAC	7	2	2WU	0.22	18	0.01	0.23		25																
	Buncombe	39	SR 3657 (WOOD GLEN COURT)	FROM SR 3656 (WINDING OAK DRIVE) TO CUL DE SAC	7	2	2WU	0.06	18	0	0.06		7																
	Buncombe	40	SR 3666 (YORKTOWN CIRCLE)	FROM SR 3498 (LEDBETTER ROAD) TO SR 3666 (YORKTOWN CIRCLE)	7	2	2WU	0.31	22	0.01	0.32		35																
	Buncombe	41	SR 3667 (GROTON WAY)	FROM SR 3666 (YORKTOWN CIRCLE) TO CUL DE SAC	7	2	2WU	0.14	22	0	0.14		16																
	Buncombe	42	SR 3668 (SELINA LANE)	FROM SR 3666 (YORKTOWN CIRCLE) TO CUL DE SAC	7	2	2WU	0.05	22	0	0.05		6																
	Buncombe	43	SR 3669 (ASHLEY WOODS DRIVE)	FROM NC 191 TO CUL DE SAC	4, 6	2	2WU	0.42	23	0.01	0.43		48																
	Buncombe	44	SR 3670 (CAROLINA BLUE BIRD LOOP)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO SR 3669 (ASHLEY WOODS DRIVE)	6	2	2WU	0.39	1	0	0.39		44																
	Buncombe	45	SR 3671 (NUT HATCH LOOP)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO SR 3485 (BALL GAP ROAD)	6	2	2WU	0.17	1	0	0.17		20																
	Buncombe	46	SR 3672 (SCARLET TANAGER COURT)	FROM (SR 3669 (ASHLEY WOODS DRIVE) TO CUL DE SAC	4	2	2WU	0.39	23	0	0.39		44																
	Buncombe	47	SR 3673 (PURPLE FINCH COURT)	FROM SR 3672 (SCARLET TANAGER COURT) TO CUL DE SAC	4	2	2WU	0.13	1	0	0.13		15																
	Buncombe	48	SR 3674 (WOOD THRUSH COURT)	FROM SR 3669 (ASHLEY WOODS DRIVE) TO CUL DE SAC	4	2	2WU	0.21	18	0	0.21		24																
	Buncombe	49	SR 3675 (FOUNDERS WAY)	FROM SR 3527 (BRADLEY BRANCH ROAD) TO CUL DE SAC	4	2	2WU	0.5	18	0.01	0.51		56																
	Buncombe	50	SR 3676 (ZACHS PLACE)	FROM SR 3675 (FOUNDERS WAY) TO CUL DE SAC	4	2	2WU	0.02	21	0	0.02		3																
	Buncombe	51	SR 3677 (PICKERS COURT)	FROM SR 3675 (FOUNDERS WAY) TO CUL DE SAC	4	2	2WU	0.02	20	0	0.02		4																
TOTAL FOR PROJ NO. 2025CPT.13.06.20111								**27.75**					**3,049**	**56**	**1**	**66**	**40**	**48**	**316**	**448**	**12**	**41**	**6**	**1**	**9**	**4**	**15**	**204,667**	**229,261**
																106			**764**					**61**				**433,928**	
GRAND TOTAL								**27.75**					**3,049**	**56**	**1**	**66**	**40**	**48**	**316**	**448**	**12**	**41**	**6**	**1**	**9**	**4**	**15**	**204,667**	**229,261**
																106			**764**					**61**				**433,928**	

PROJECT NO.	SHEET NO.
2025CPT.13.06.20111	TMP-1

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.

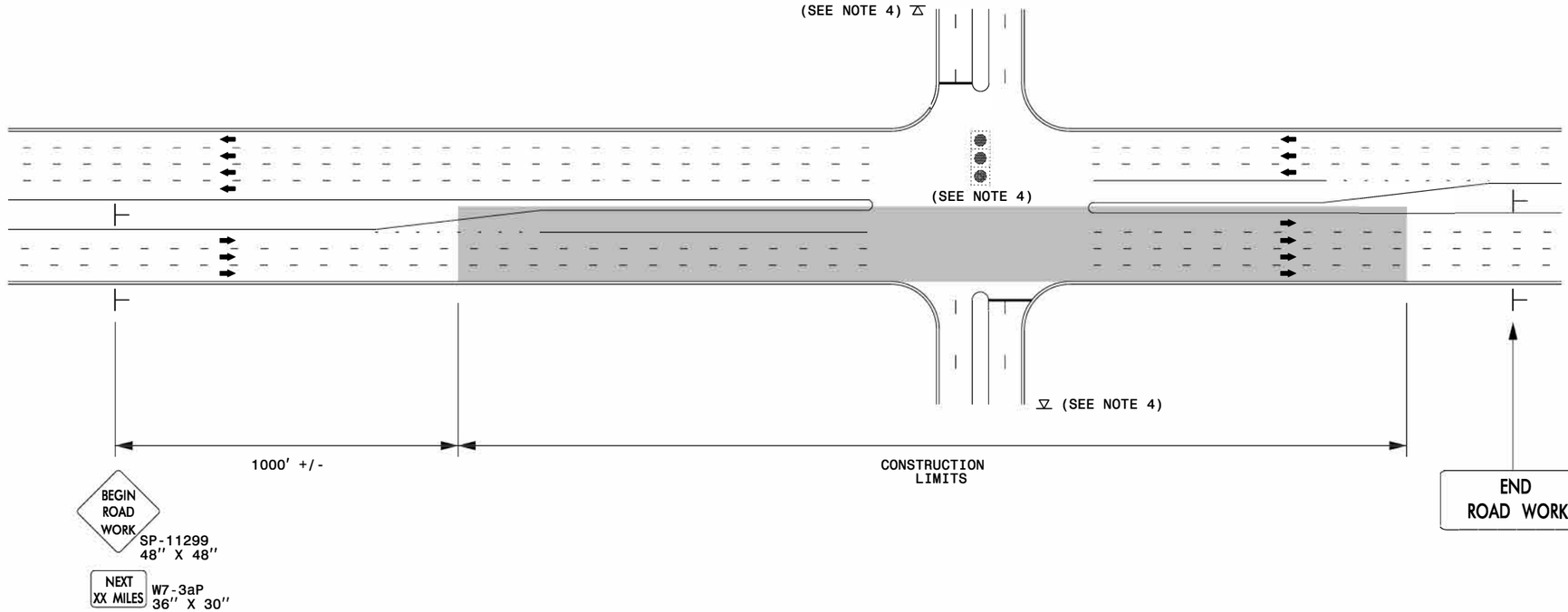
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

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

5/15/2017
S:\TMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kedds

PROJECT NO.	SHEET NO.
2025CPT.13.06.20111	TMP-2

URBAN / SUBURBAN WORKZONES



NOTES:

1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

- ⊢ STATIONARY SIGN
- ➡ DIRECTION OF TRAFFIC FLOW

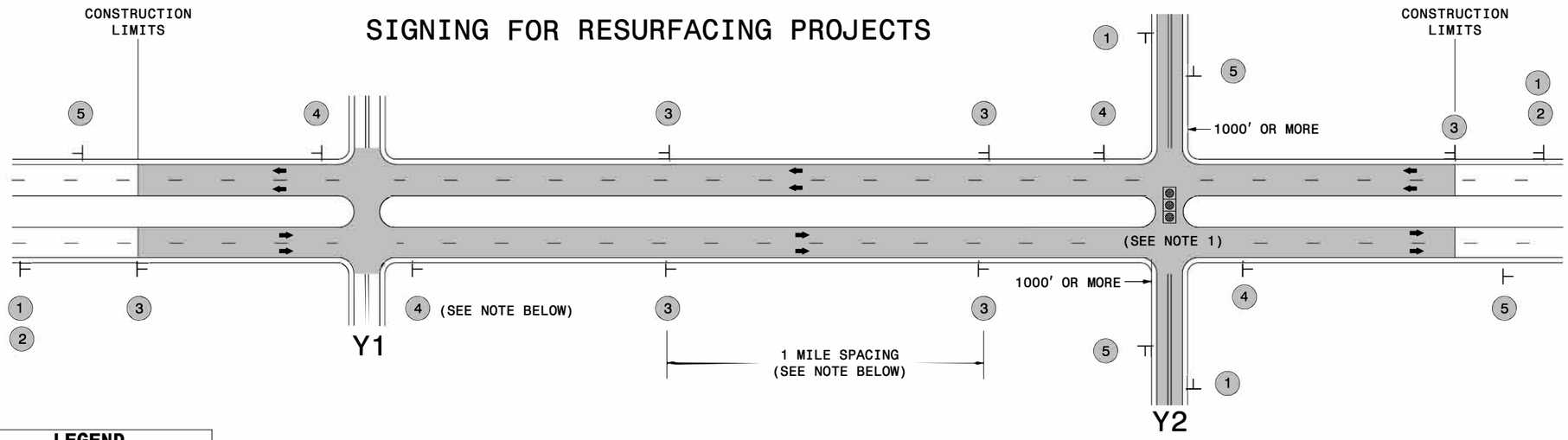
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

4/8/2016
C:\Users\rmgarrett\Downloads\Resurfacing_AdvWarn_UrSu (2).dgn
User:rmgarrett

PROJECT NO.	SHEET NO.
2025CPT.13.06.20111	TMP-3

SIGNING FOR RESURFACING PROJECTS



LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW

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″

#2 SIGN ONLY USED WHEN RESURFACING 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 SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE 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.

-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, ADVANCE WARNING PORTABLE 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.

NOTES:

1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500′ IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.

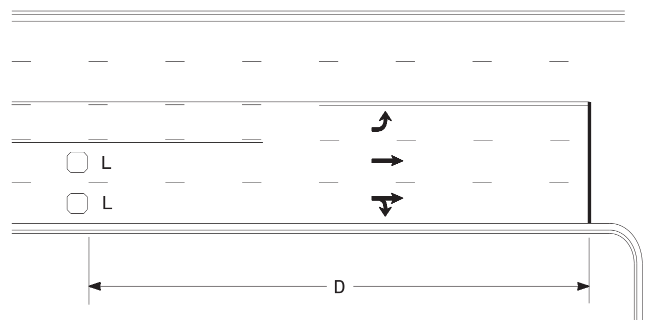
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS W/ SHOULDER SECTIONS

3/23/2015
C:\Users\rmgarrett\Downloads\Resurfacing_AdvWarn_UrSu_Shldr.dgn
User:rmgarrett

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.13.06.20111	SIG-1

High Speed Detection
(≥40 mph)



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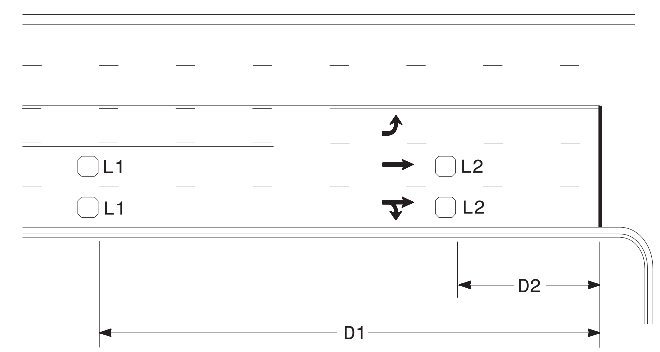


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

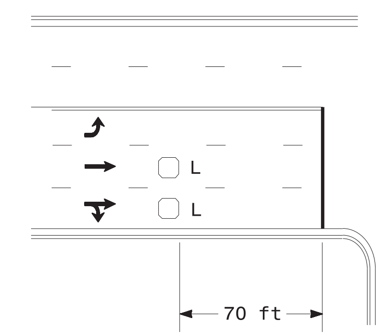
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

"Stretch" Operation

Low Speed Detection
(≤35 mph)



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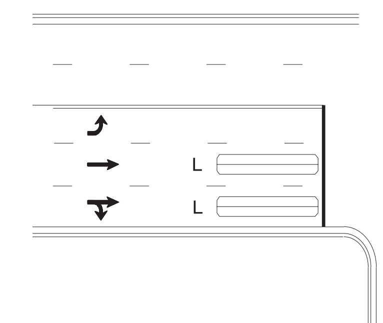
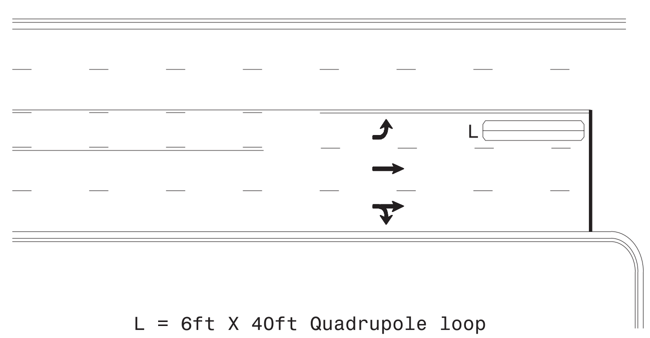


L = 6ft X 6ft
Wired in series

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

Left Turn Lane Detection



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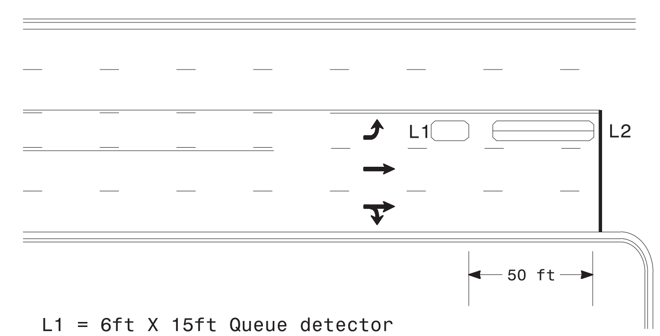


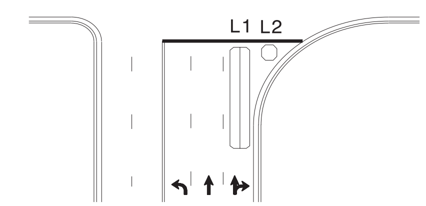
L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

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

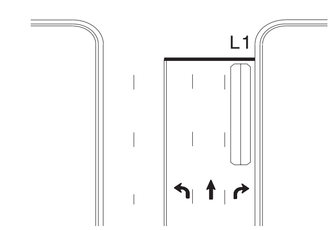
Queue Loop Detection

Right Turn Lane Detection

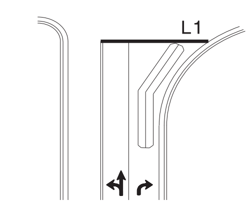


Shared Lane/
Wide Radius Turn

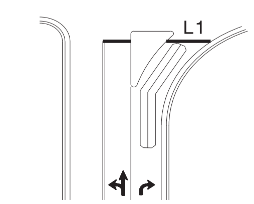
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

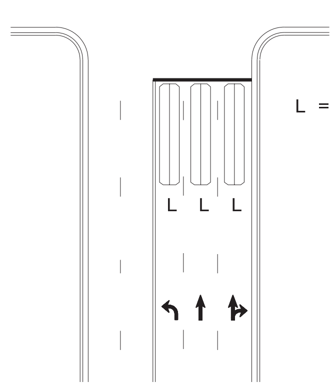


Wide Radius Turn



Channelized Turn

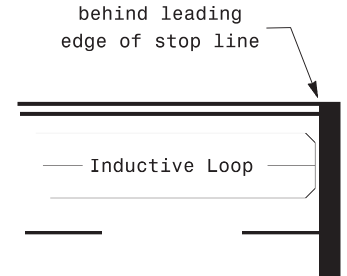
Side Street Detection



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

Presence Loop Placement at Stop Lines

Locate loop slightly
behind leading
edge of stop line



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

Prepared in the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

Typical Signal Loop Locations

PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:

SCALE
N/A

REVISIONS | INIT. | DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 029904
JASON P. GALLOWAY
9/8/2020
DATE

SIG. INVENTORY NO.

08-SEP-2020 11:54
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jgalloway