
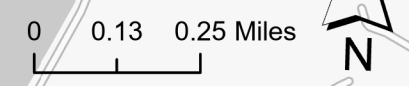


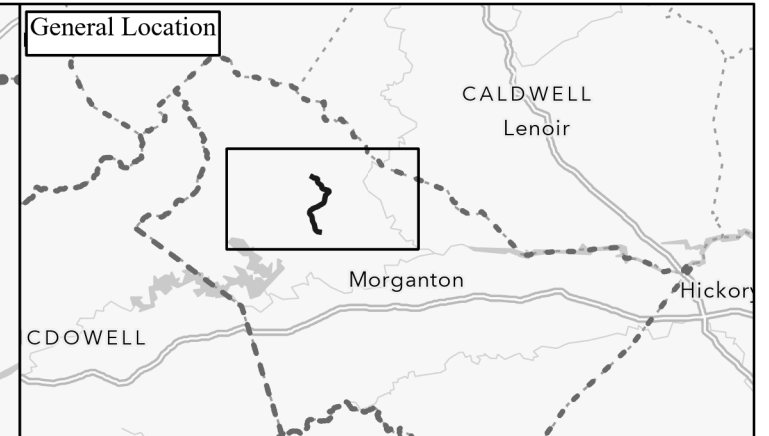
**Burke Primary and Secondary
Resurfacing**
 2023CPT.13.02.10121,
 2023CPT.13.02.20121
 Sheet 1



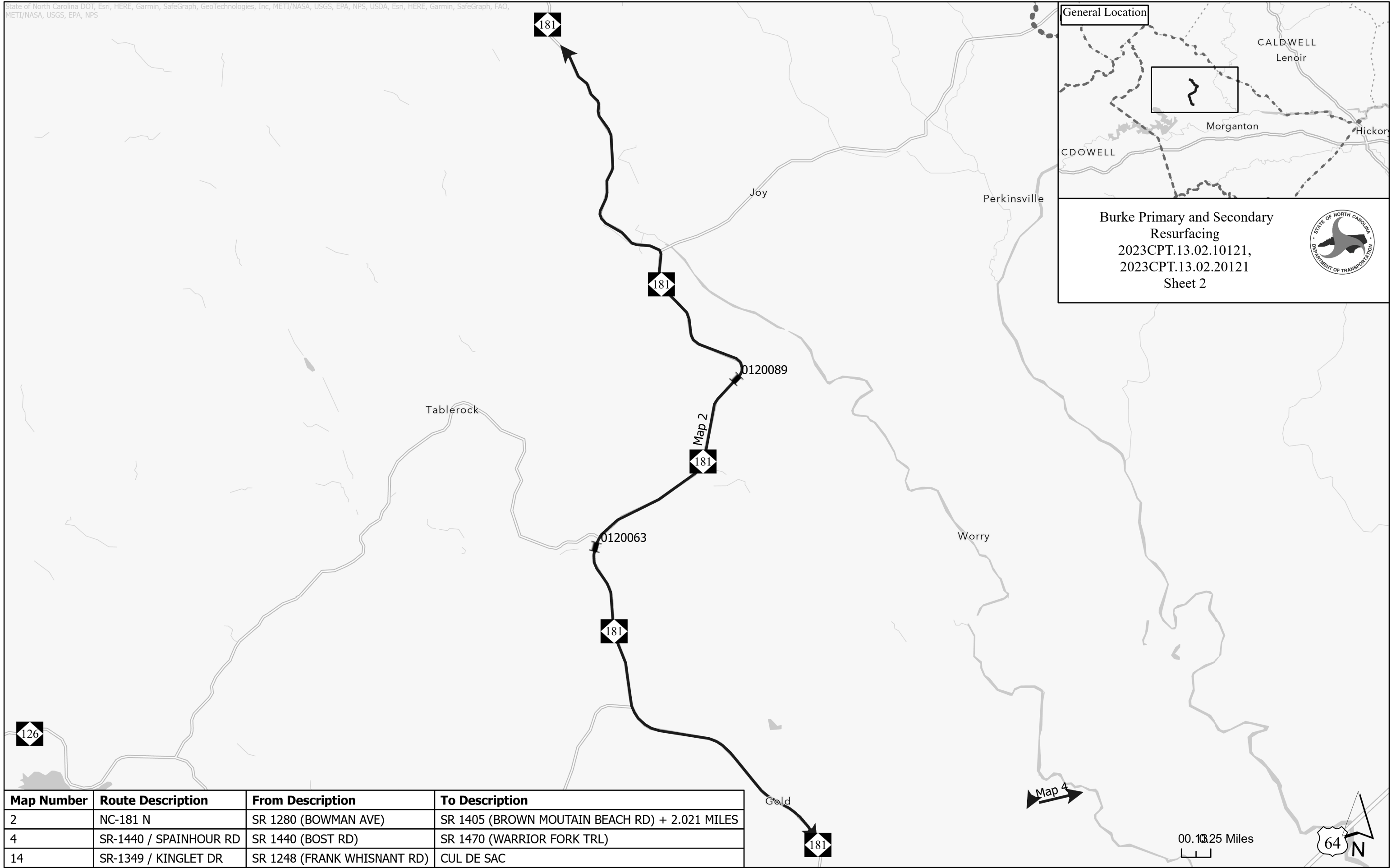
MAP_NUMBER	Route Description	From Description	To Description
1			
15	SR-1356 / BRAXTON	CUL DE SAC	CUL DE SAC



Map 15



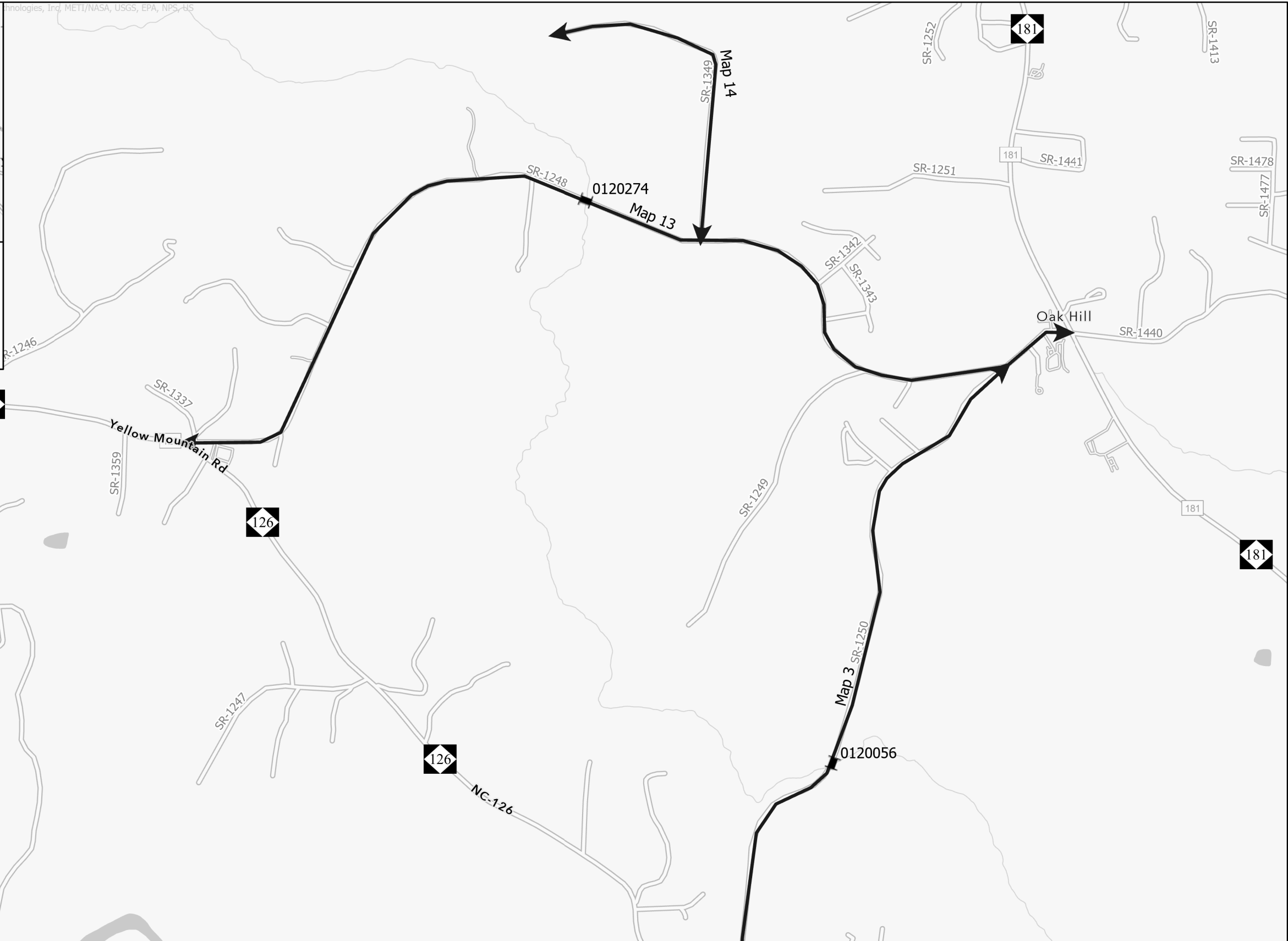
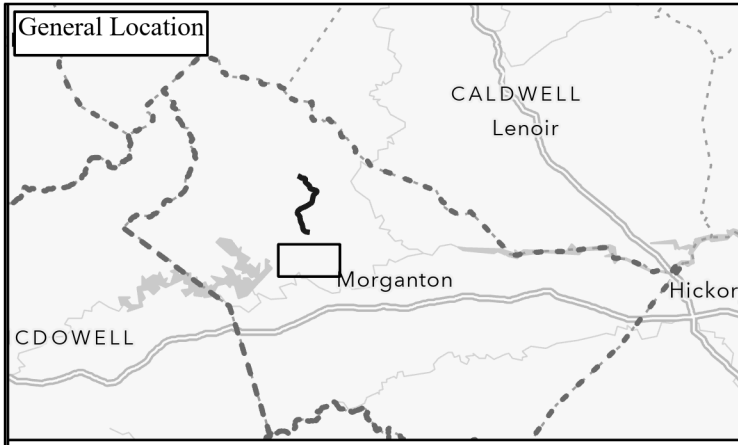
Burke Primary and Secondary
Resurfacing
2023CPT.13.02.10121,
2023CPT.13.02.20121
Sheet 2



Map Number	Route Description	From Description	To Description
2	NC-181 N	SR 1280 (BOWMAN AVE)	SR 1405 (BROWN MOUNTAIN BEACH RD) + 2.021 MILES
4	SR-1440 / SPAINHOUR RD	SR 1440 (BOST RD)	SR 1470 (WARRIOR FORK TRL)
14	SR-1349 / KINGLET DR	SR 1248 (FRANK WHISNANT RD)	CUL DE SAC

00.125 Miles





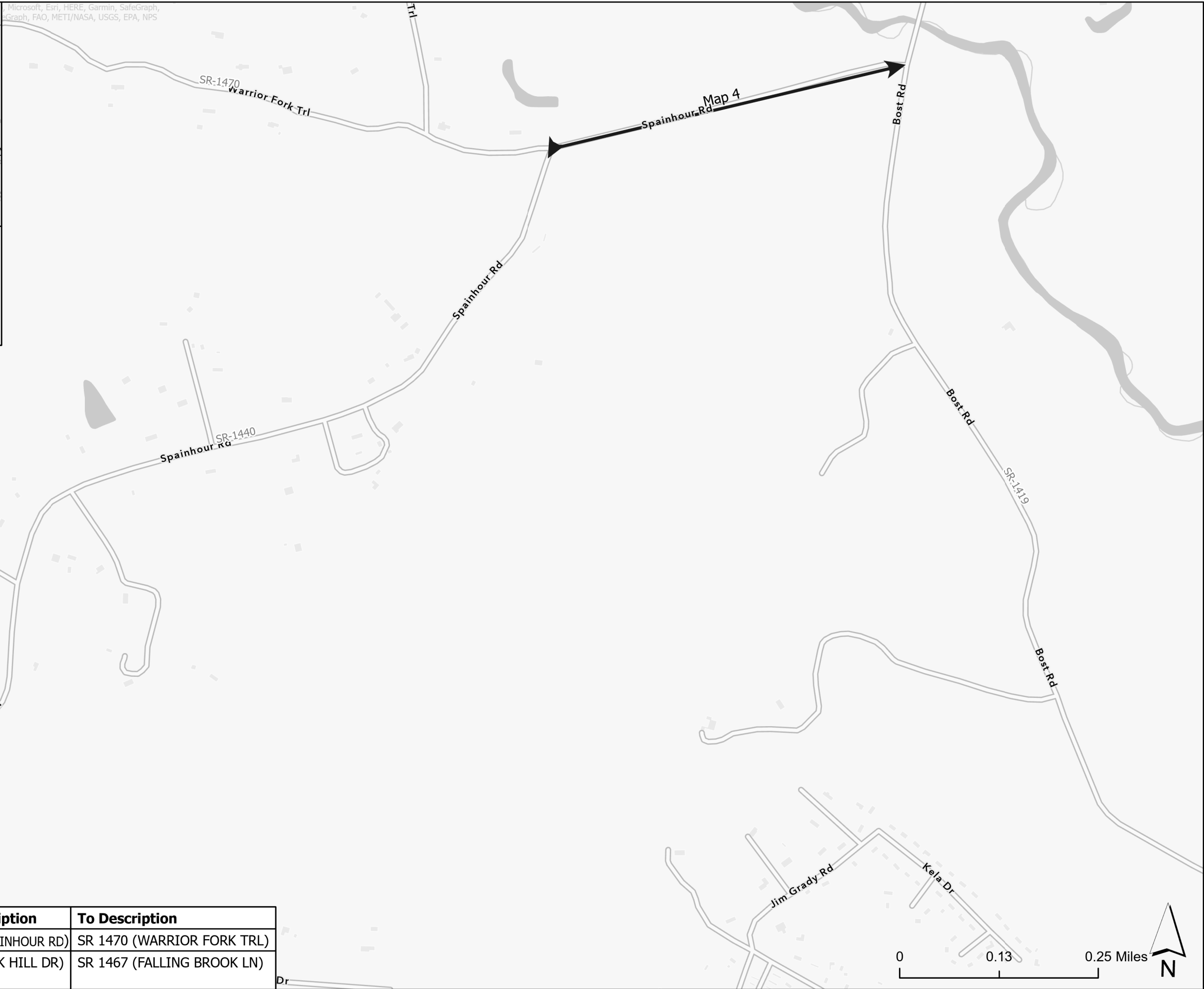
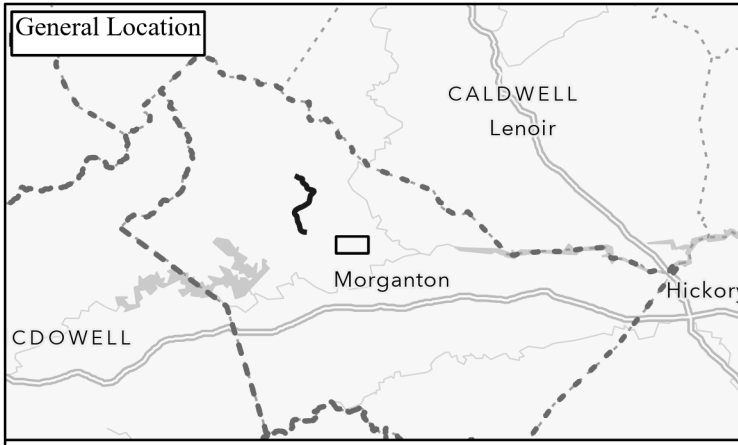
Burke Primary and Secondary
Resurfacing
2023CPT.13.02.10121,
2023CPT.13.02.20121
Sheet 3



Map Number	Route Description	From Description	To Description
3	SR-1250 / WATERMILL RD	NC 126	SR 1248 (FRANK WHISNANT RD)
13	SR-1248 / FRANK WHISNANT RD	NC 126	NC 181
14	SR-1349 / KINGLET DR	SR 1248 (FRANK WHISNANT RD)	CUL DE SAC

0 0.13 0.25 Miles





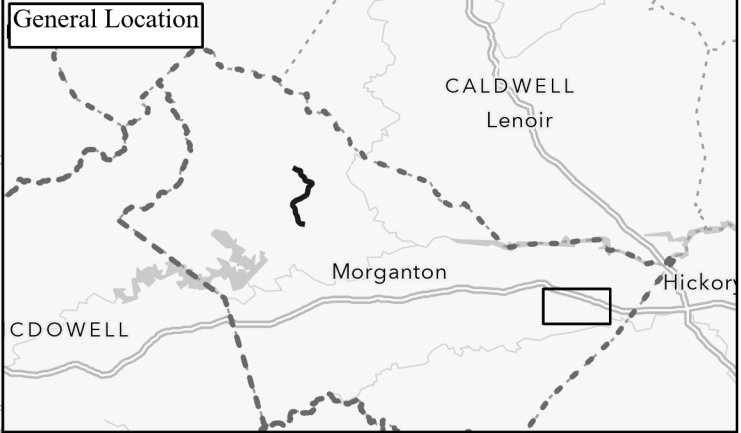
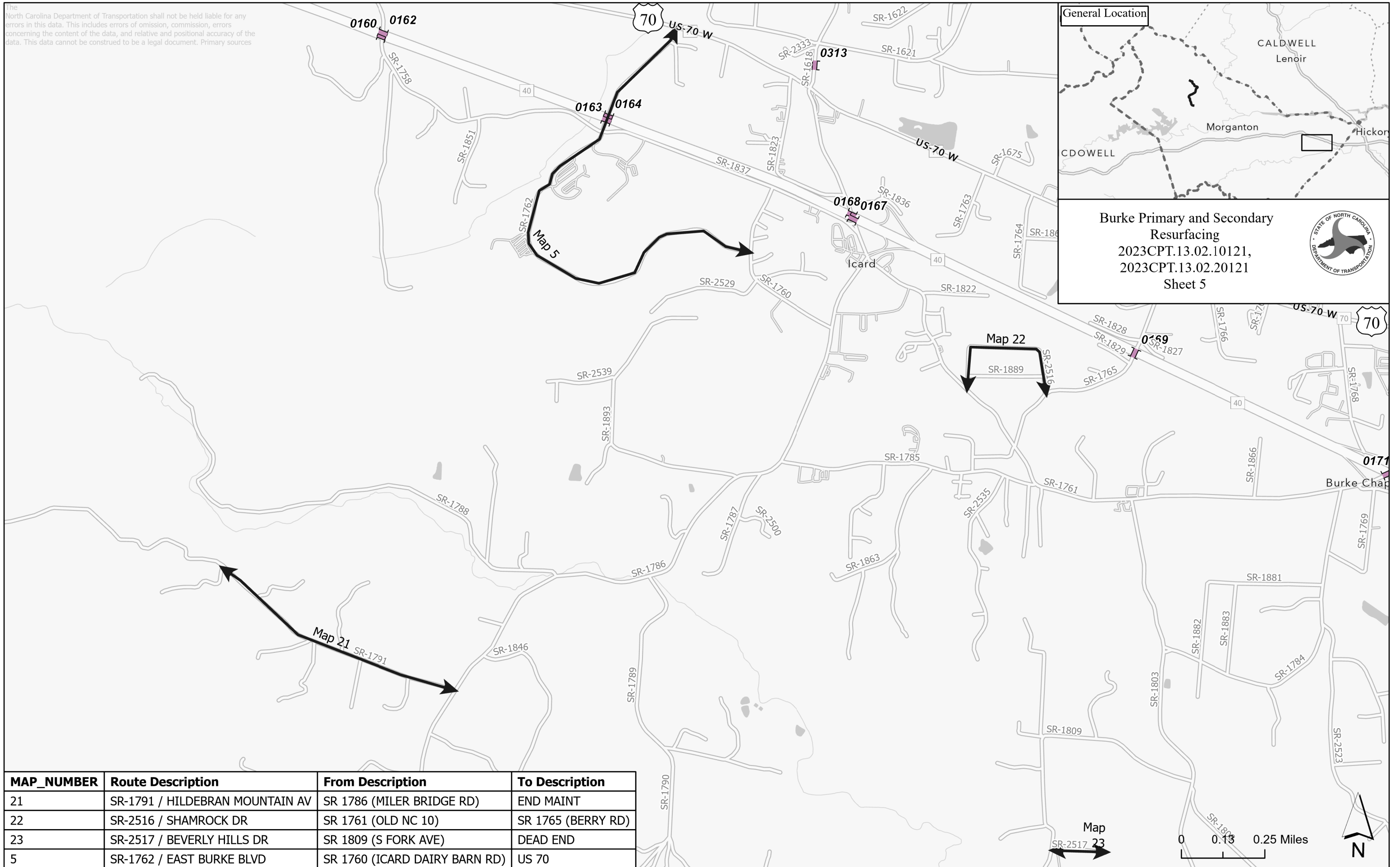
Burke Primary and Secondary
Resurfacing
2023CPT.13.02.10121,
2023CPT.13.02.20121
Sheet 4



MAP_NUMBER	Route Description	From Description	To Description
4	SR-1440 / BOST RD	SR 1419 (SPAINHOUR RD)	SR 1470 (WARRIOR FORK TRL)
18	SR-1463 / PINE DR	SR 1461 (OAK HILL DR)	SR 1467 (FALLING BROOK LN)



The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources

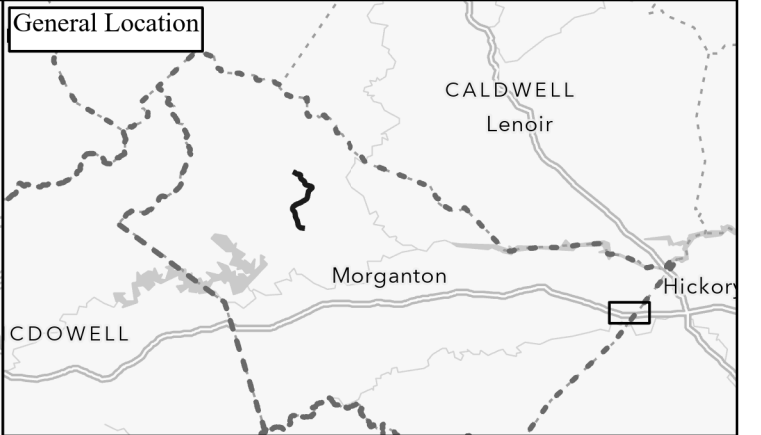
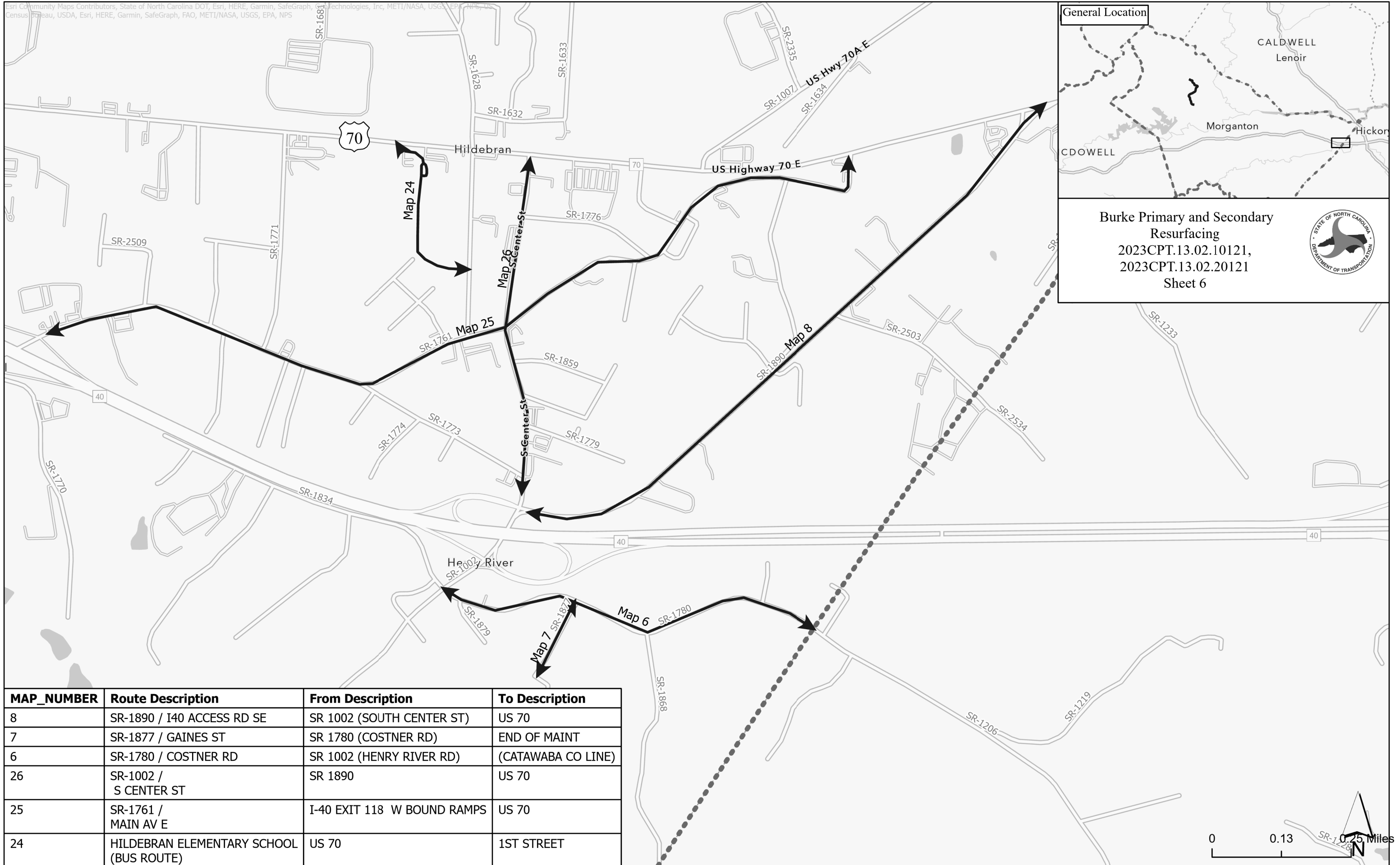


Burke Primary and Secondary Resurfacing
 2023CPT.13.02.10121,
 2023CPT.13.02.20121
 Sheet 5



MAP_NUMBER	Route Description	From Description	To Description
21	SR-1791 / HILDEBRAN MOUNTAIN AV	SR 1786 (MILER BRIDGE RD)	END MAINT
22	SR-2516 / SHAMROCK DR	SR 1761 (OLD NC 10)	SR 1765 (BERRY RD)
23	SR-2517 / BEVERLY HILLS DR	SR 1809 (S FORK AVE)	DEAD END
5	SR-1762 / EAST BURKE BLVD	SR 1760 (ICARD DAIRY BARN RD)	US 70

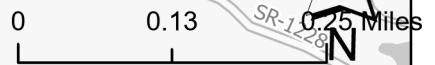


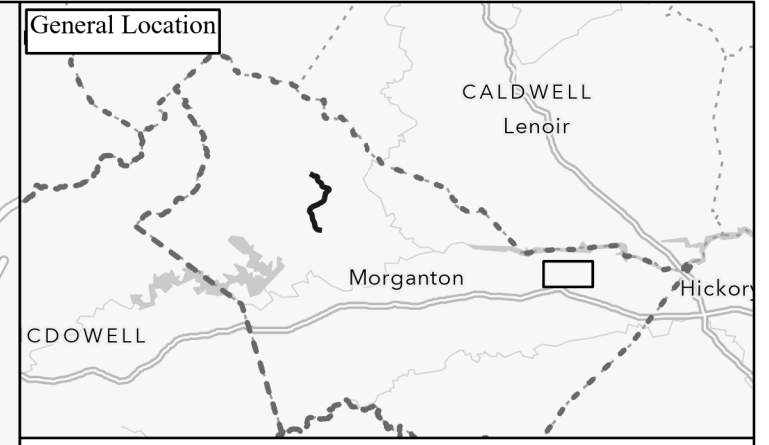


Burke Primary and Secondary
Resurfacing
2023CPT.13.02.10121,
2023CPT.13.02.20121
Sheet 6

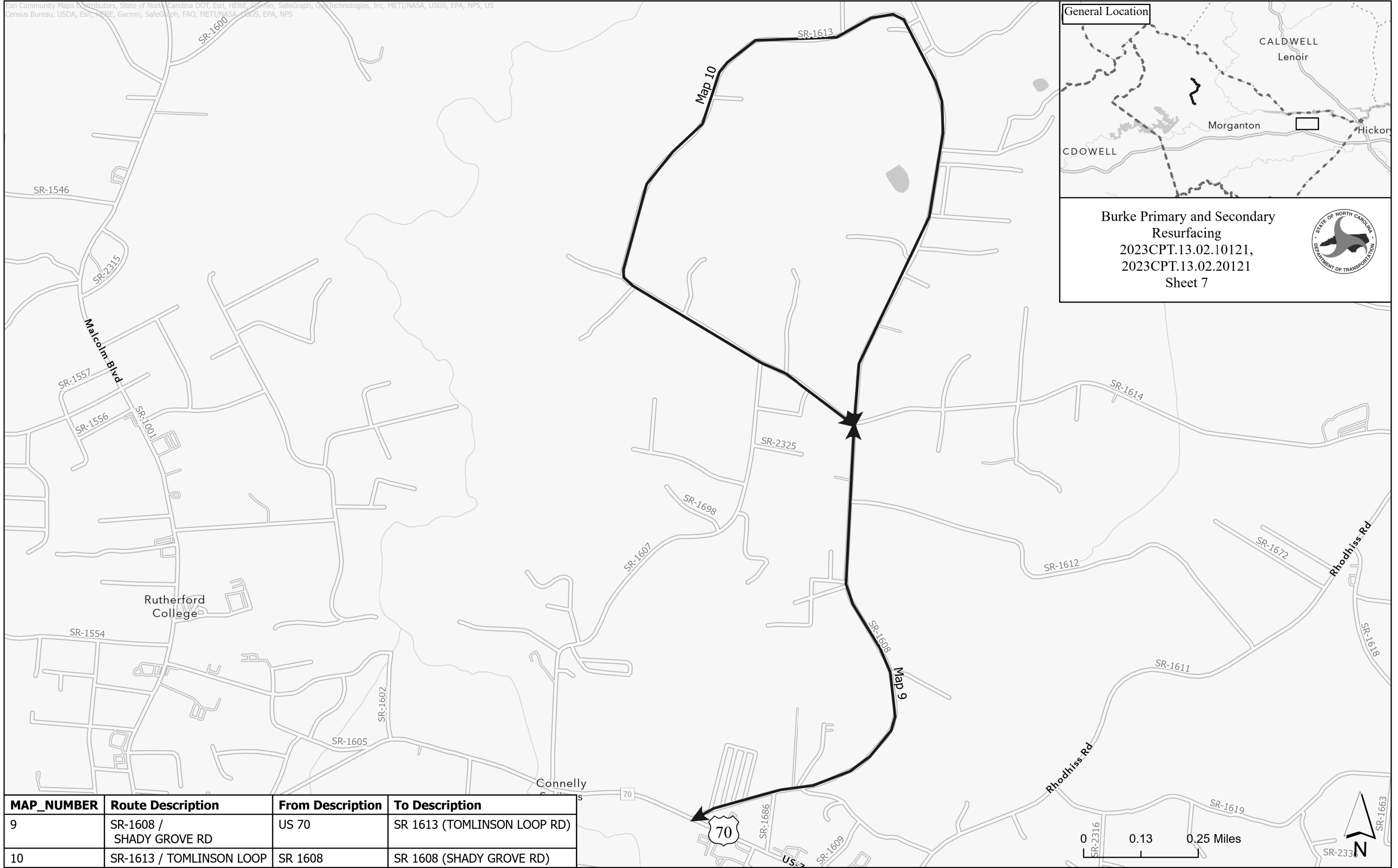


MAP_NUMBER	Route Description	From Description	To Description
8	SR-1890 / I40 ACCESS RD SE	SR 1002 (SOUTH CENTER ST)	US 70
7	SR-1877 / GAINES ST	SR 1780 (COSTNER RD)	END OF MAINT
6	SR-1780 / COSTNER RD	SR 1002 (HENRY RIVER RD)	(CATAWABA CO LINE)
26	SR-1002 / S CENTER ST	SR 1890	US 70
25	SR-1761 / MAIN AV E	I-40 EXIT 118 W BOUND RAMPS	US 70
24	HILDEBRAN ELEMENTARY SCHOOL (BUS ROUTE)	US 70	1ST STREET

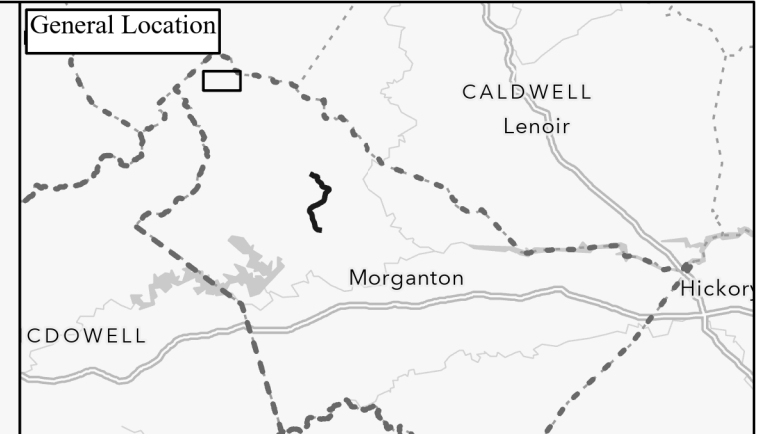
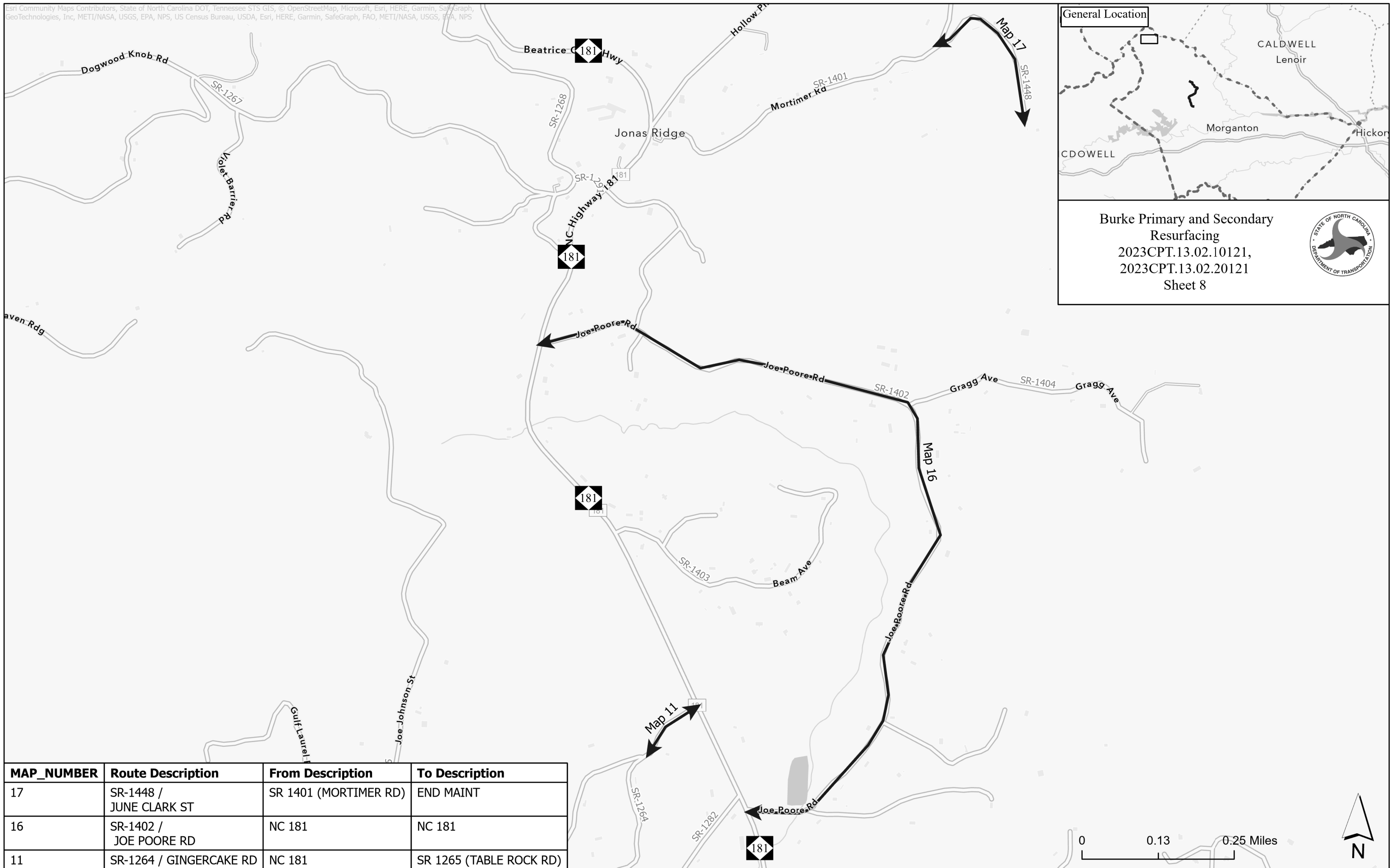




Burke Primary and Secondary
Resurfacing
2023CPT.13.02.10121,
2023CPT.13.02.20121
Sheet 7



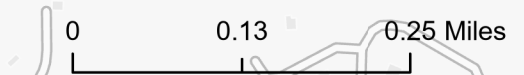
MAP_NUMBER	Route Description	From Description	To Description
9	SR-1608 / SHADY GROVE RD	US 70	SR 1613 (TOMLINSON LOOP RD)
10	SR-1613 / TOMLINSON LOOP	SR 1608	SR 1608 (SHADY GROVE RD)



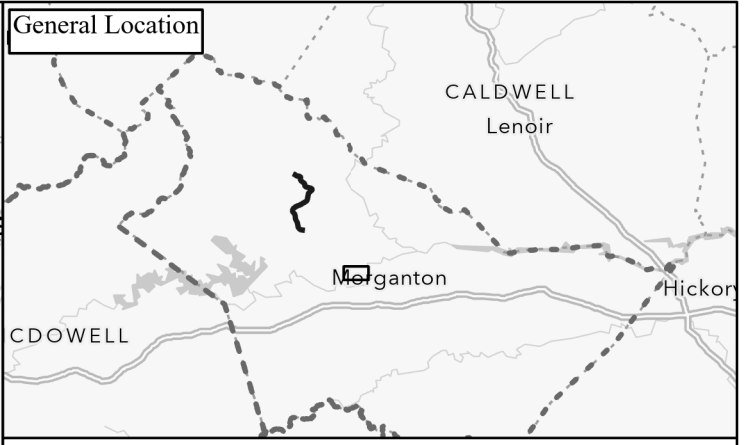
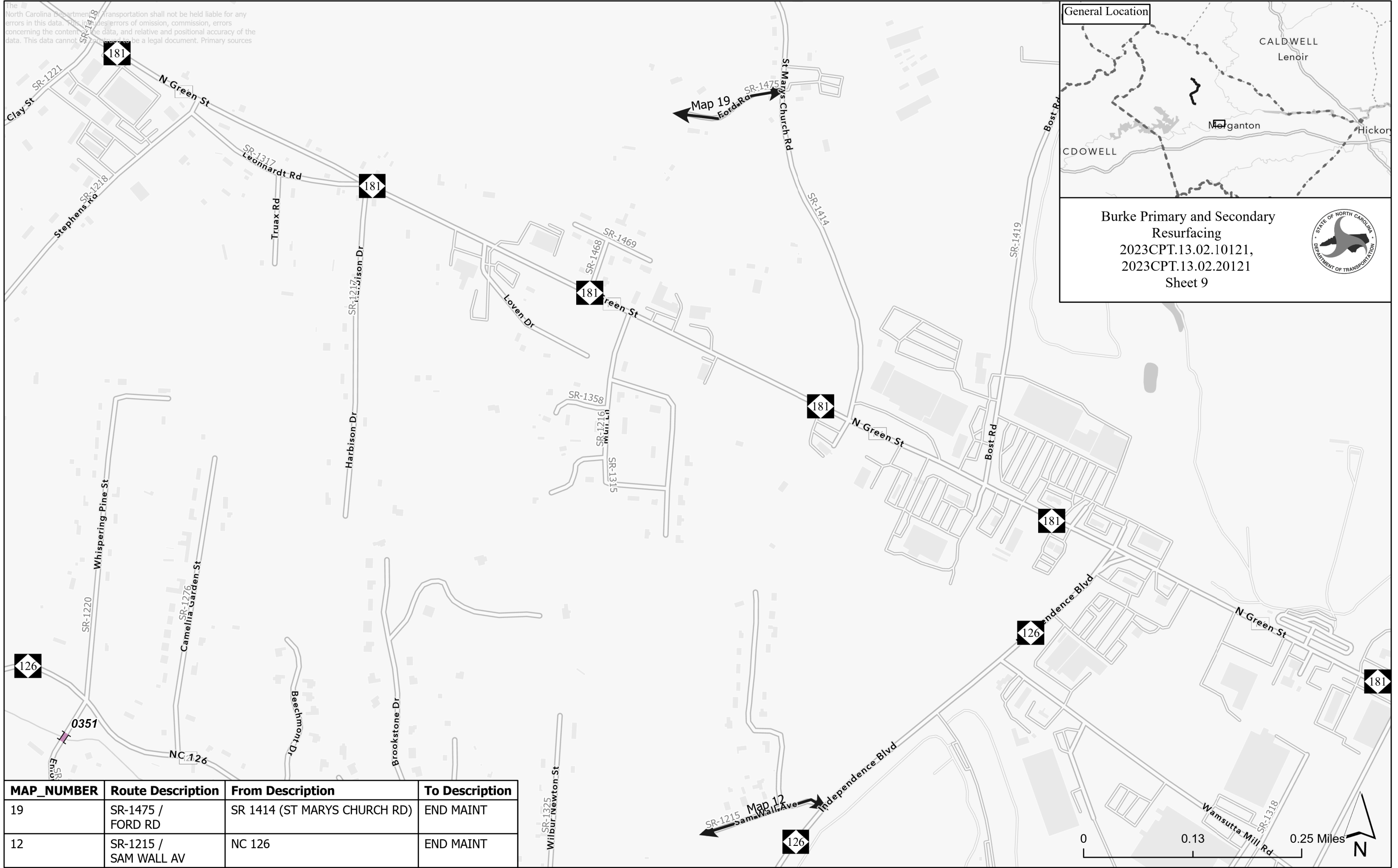
Burke Primary and Secondary
Resurfacing
2023CPT.13.02.10121,
2023CPT.13.02.20121
Sheet 8



MAP_NUMBER	Route Description	From Description	To Description
17	SR-1448 / JUNE CLARK ST	SR 1401 (MORTIMER RD)	END MAINT
16	SR-1402 / JOE POORE RD	NC 181	NC 181
11	SR-1264 / GINGERCake RD	NC 181	SR 1265 (TABLE ROCK RD)



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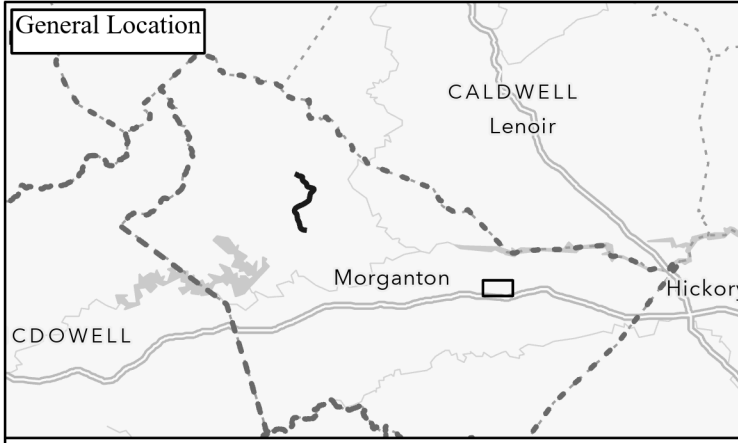


Burke Primary and Secondary Resurfacing
 2023CPT.13.02.10121,
 2023CPT.13.02.20121
 Sheet 9

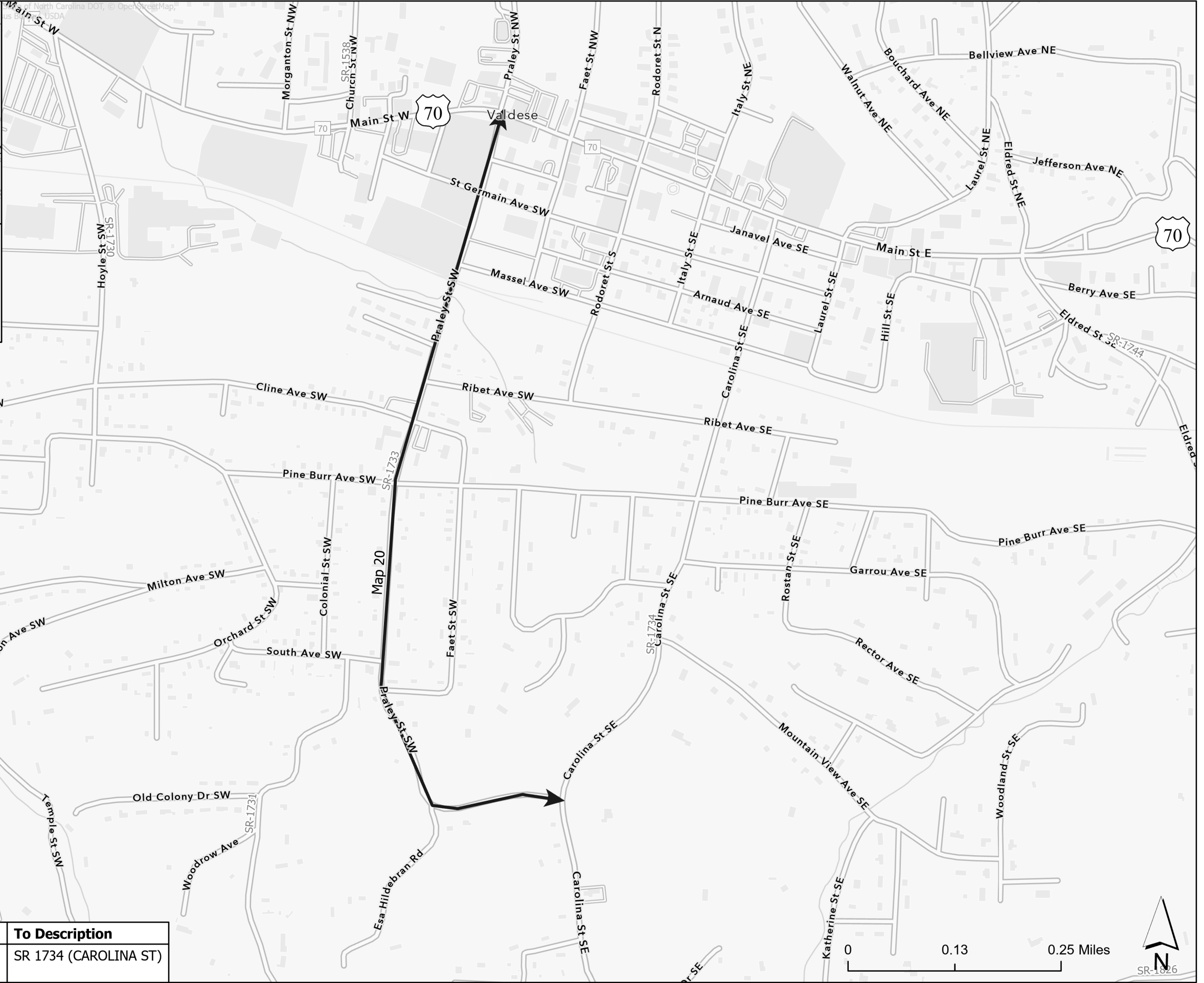


MAP_NUMBER	Route Description	From Description	To Description
19	SR-1475 / FORD RD	SR 1414 (ST MARYS CHURCH RD)	END MAINT
12	SR-1215 / SAM WALL AV	NC 126	END MAINT

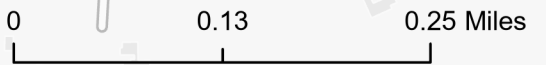




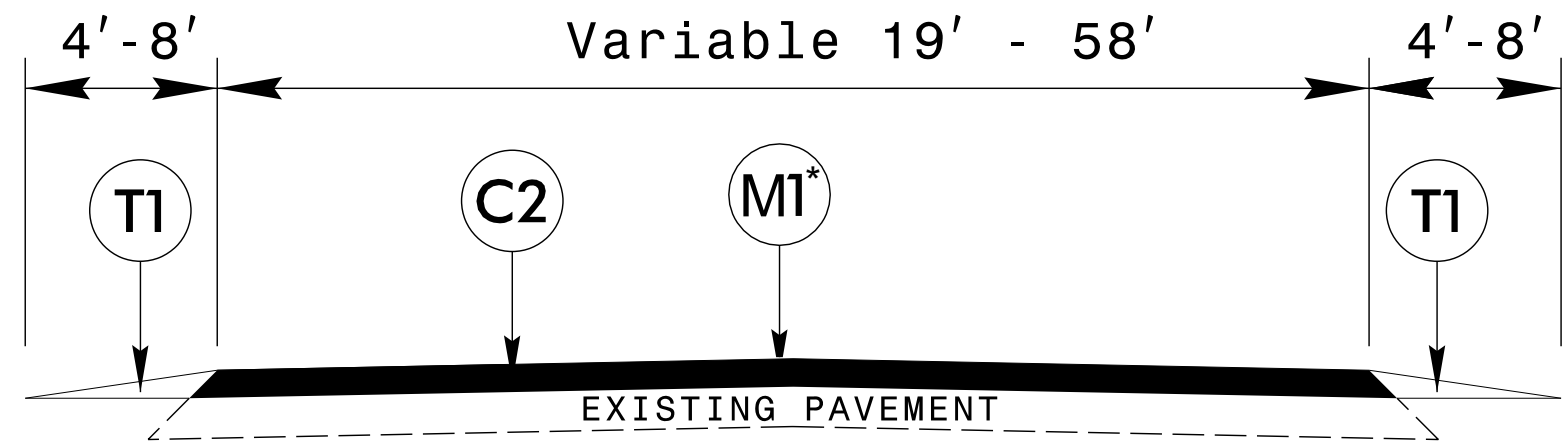
Burke Primary and Secondary Resurfacing
 2023CPT.13.02.10121,
 2023CPT.13.02.20121
 Sheet 10



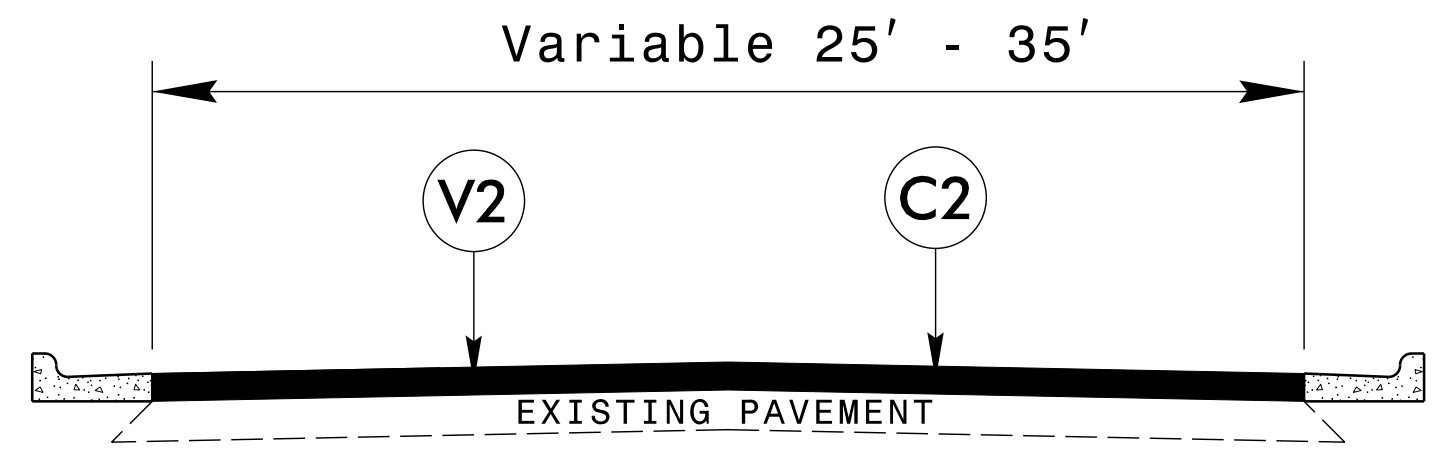
MAP_NUMBER	Route Description	From Description	To Description
20	SR-1733 / PRALEY ST SW	US 70	SR 1734 (CAROLINA ST)



SR-1826



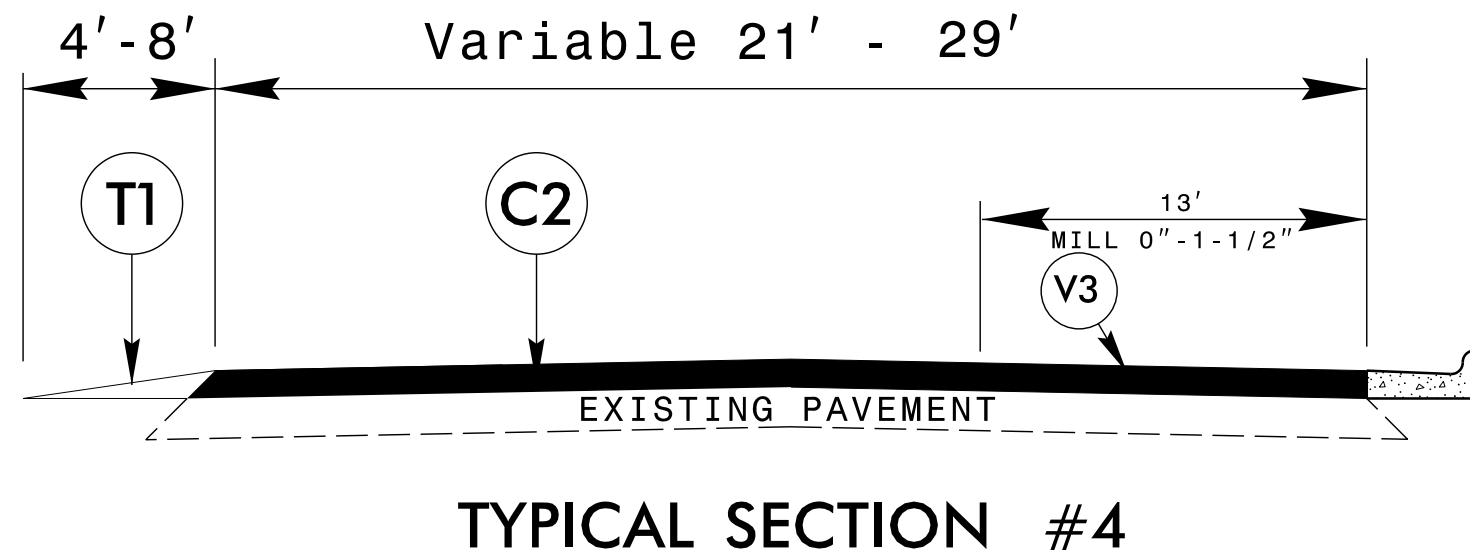
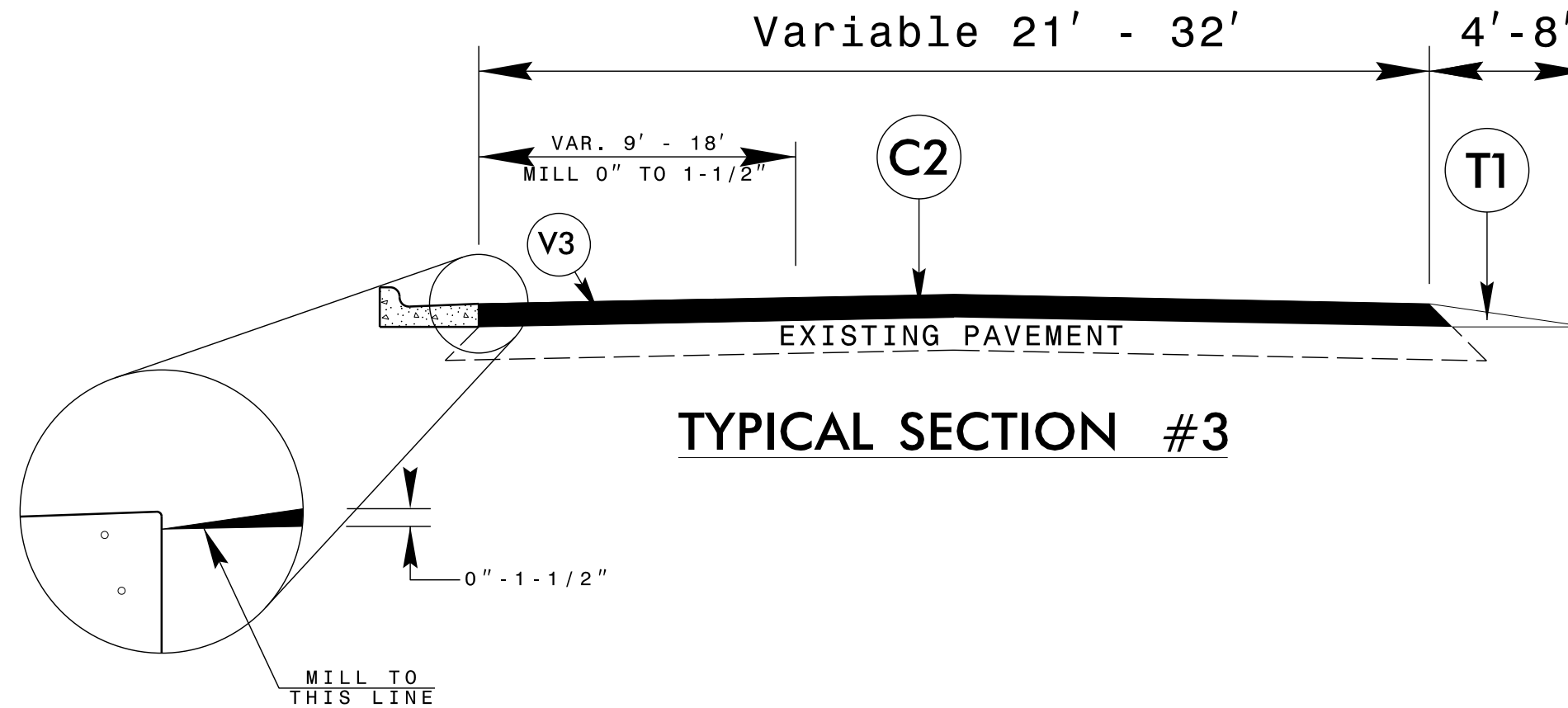
TYPICAL SECTION #1
 * USE M1 ONLY ON MAP #2



TYPICAL SECTION #2

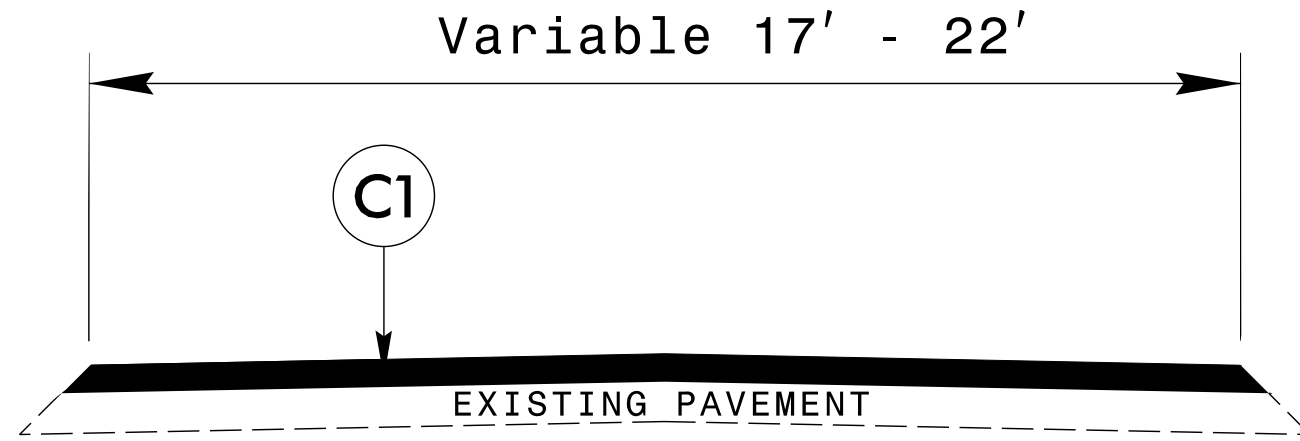
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT, 1" DEPTH
V2	MILLING ASPHALT PAVEMENT 1-1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT, 0 TO 1-1/2" DEPTH
V4	INCIDENTAL MILLING
M1	CENTERLINE RUMBLE STRIP

20-OCT-2022 10:25
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 6/2/99

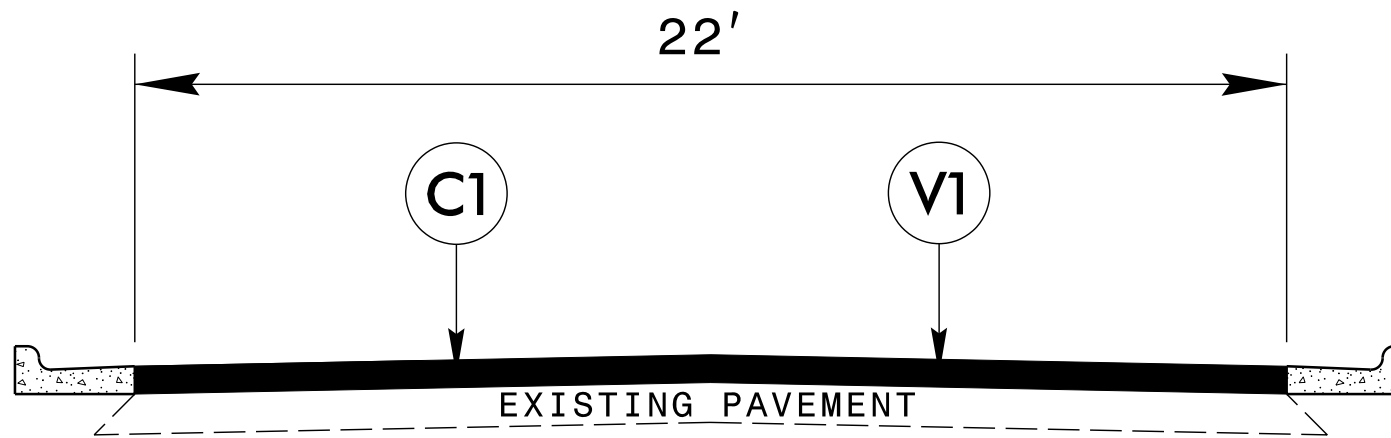


PAVEMENT SCHEDULE

C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD
C2	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT, 1" DEPTH
V2	MILLING ASPHALT PAVEMENT 1-1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT, 0 TO 1-1/2" DEPTH
V4	INCIDENTAL MILLING
M1	CENTERLINE RUMBLE STRIP



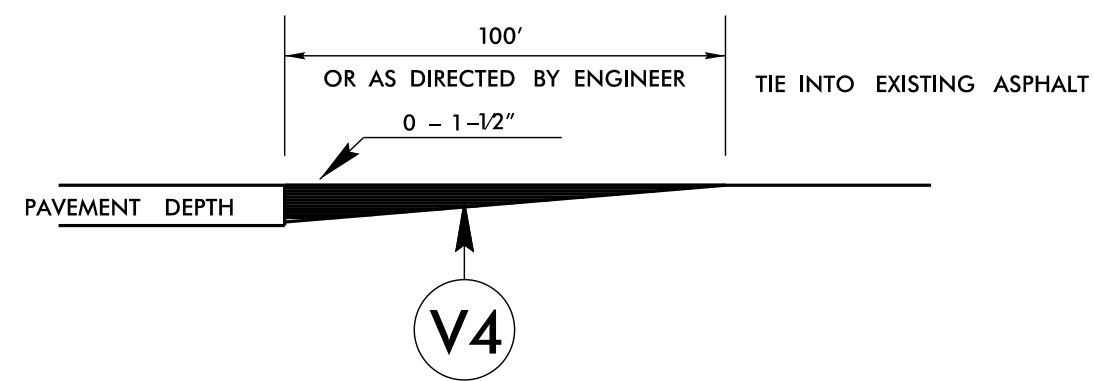
TYPICAL SECTION #5



TYPICAL SECTION #6

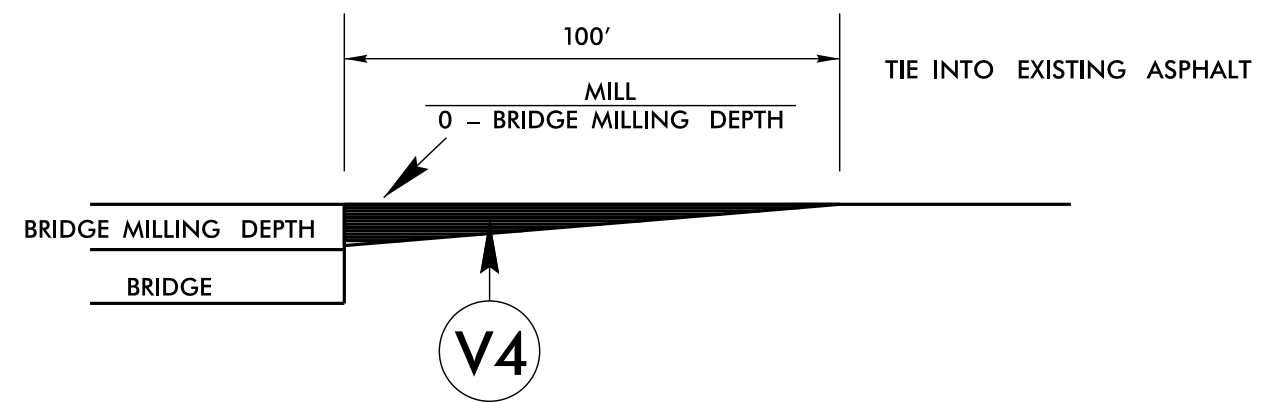
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD
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T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT, 1" DEPTH
V2	MILLING ASPHALT PAVEMENT 1-1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT, 0 TO 1-1/2" DEPTH
V4	INCIDENTAL MILLING
M1	CENTERLINE RUMBLE STRIP



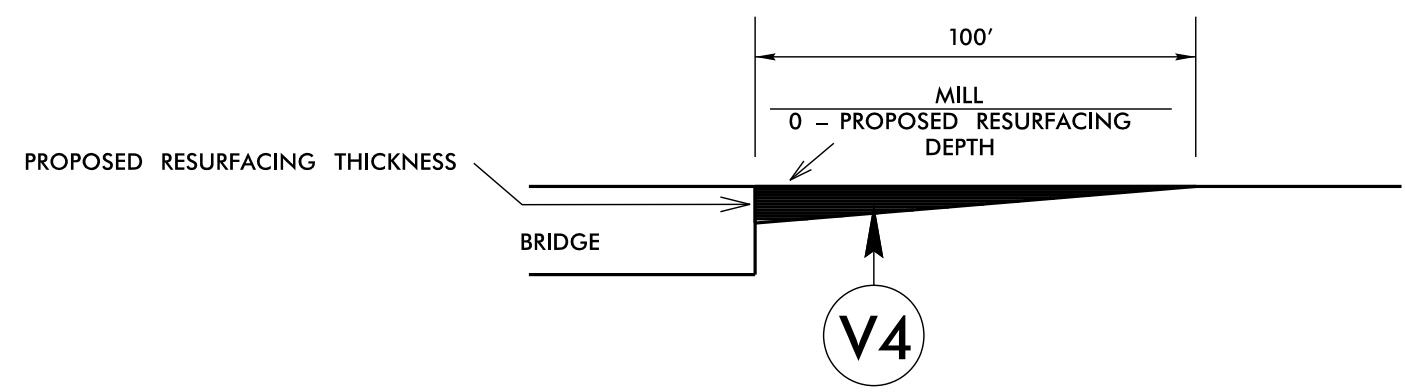
DETAIL TO TIE INTO EXIST PAVEMENT

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



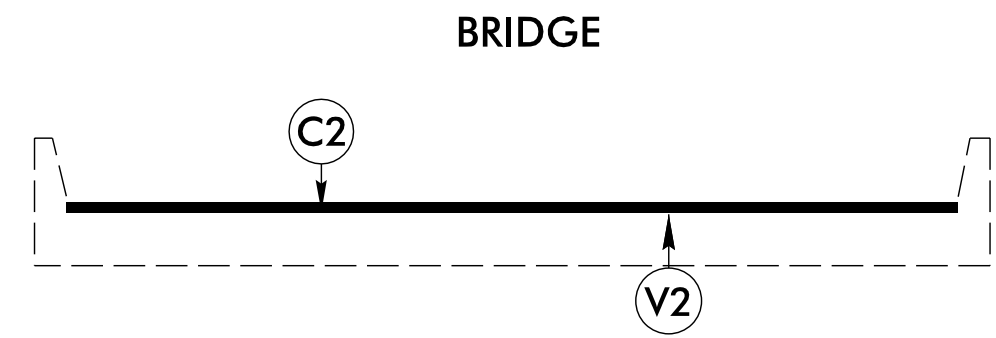
MILLING DETAIL AT BRIDGE APPROACHES

WHERE BRIDGES WILL BE MILLED THEN RESURFACED. THIS WILL BE PAID FOR AS INCIDENTAL MILLING. USE AT BRIDGE NUMBER: 63 AND 89 MAP 2, AND 274 MAP 13.



MILLING DETAIL AT BRIDGE APPROACHES

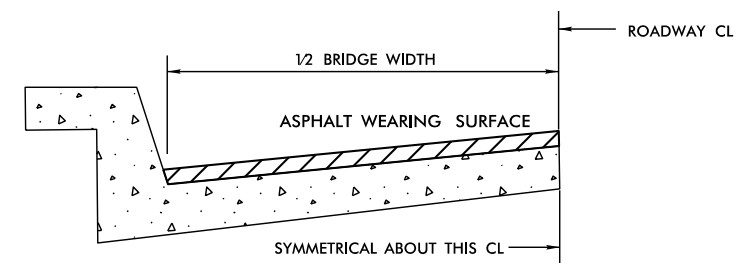
WHERE BRIDGES WILL NOT BE RESURFACED. THIS WILL BE PAID FOR AS INCIDENTAL MILLING. USE AT BRIDGE NUMBER: 56 MAP 3.



BRIDGE DETAIL

BRIDGE NUMBER 63 AND 89 MAP 2, AND 274 MAP 13. MILL 1-1/2" OFF EXISTING PAVEMENT SEE MAP FOR BRIDGE LOCATION.

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 10-FEB-2023 14:39
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 \$\$\$\$STANDARD\$\$\$\$



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 - TYPE C 1/2".

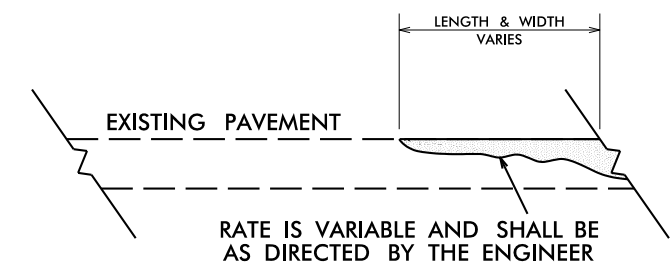
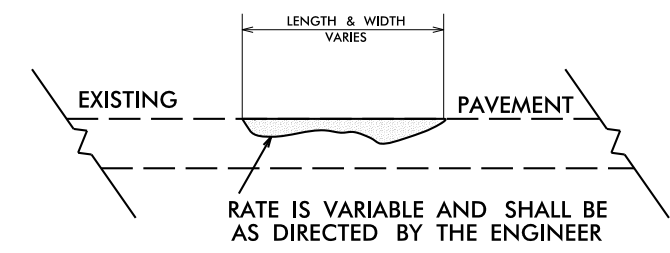
NOTES

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.

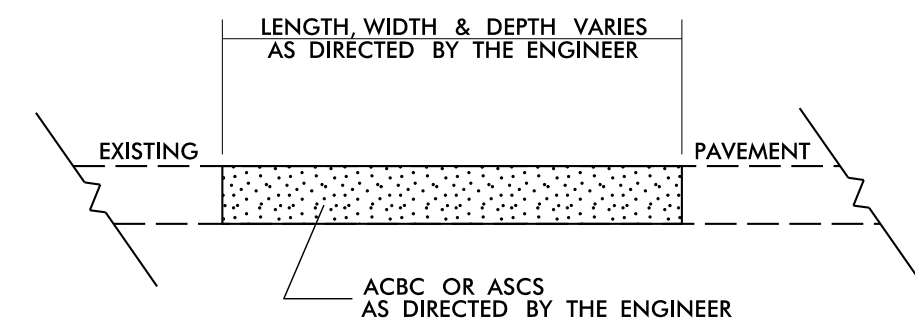
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.

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



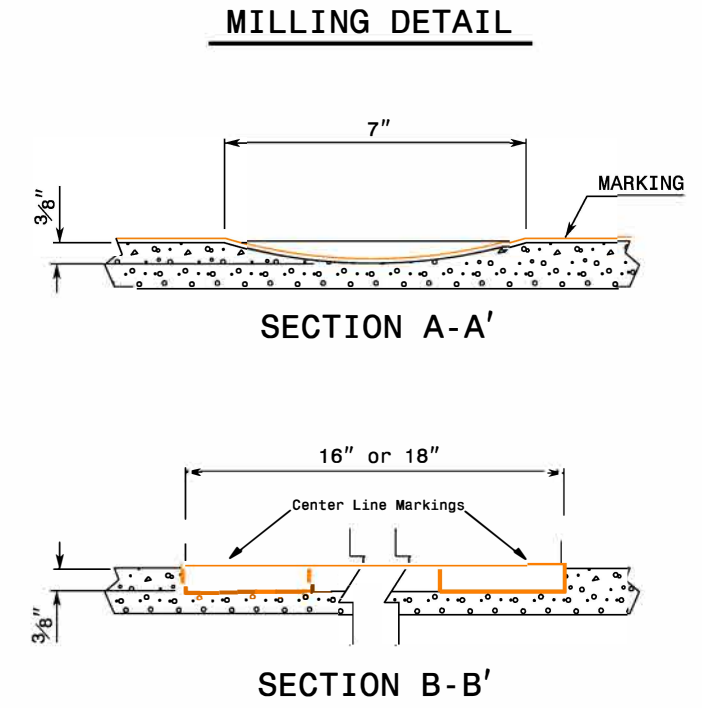
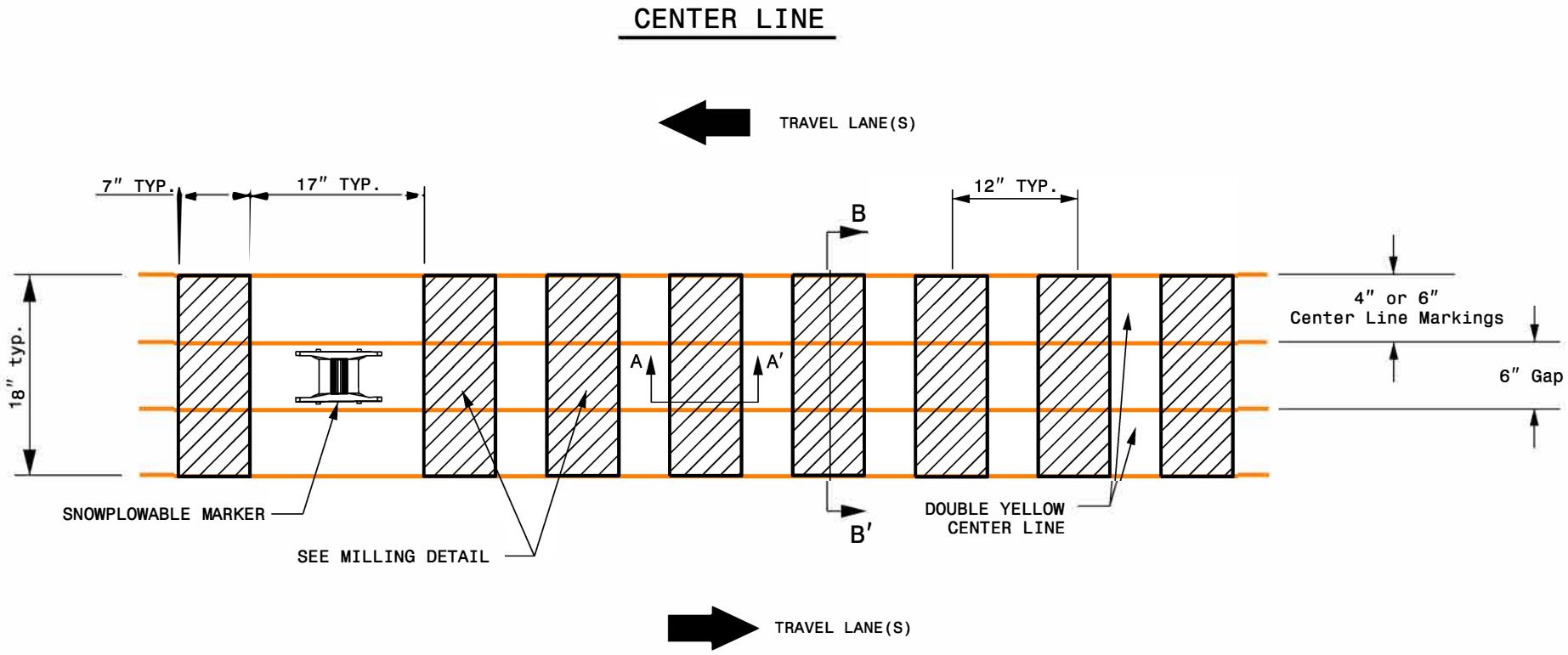
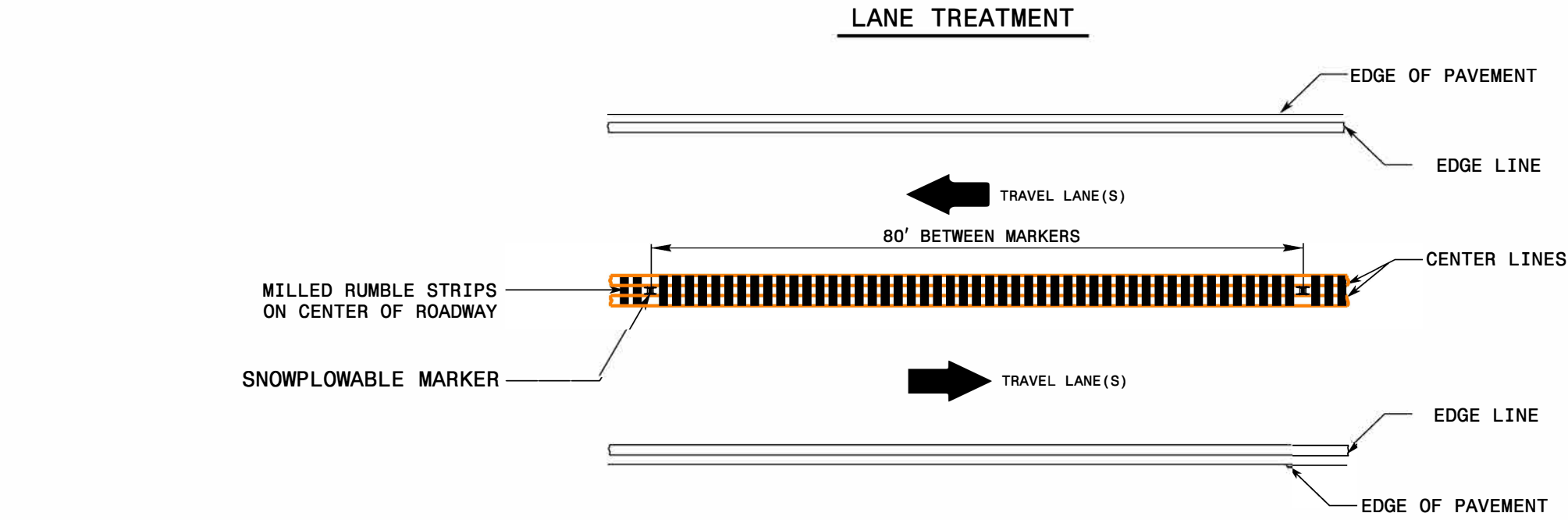
PATCHING EXISTING PAVEMENT

6/2/99
 02-FEB-2023 11:00
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 \$\$\$\$RENDER\$\$\$\$

PROJECT NO.	SHEET NO.	TOTAL SHEETS
2023CPT.13.02.10121, 2023CPT.13.02.20121	16	

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

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



ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
TRADITIONAL CENTERLINE RUMBLE STRIP WITH SNOWPLOWABLE MARKERS

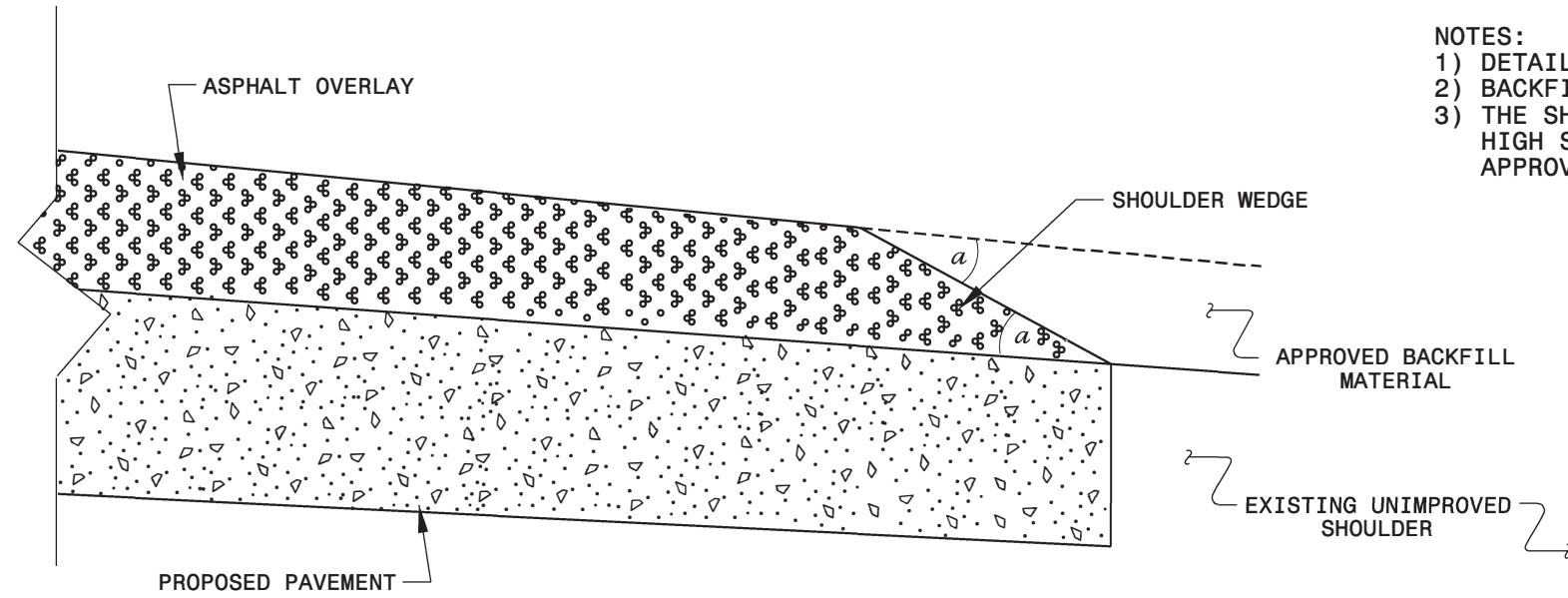
ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
TRADITIONAL CENTERLINE RUMBLE STRIP WITH SNOWPLOWABLE MARKERS

NOTES:

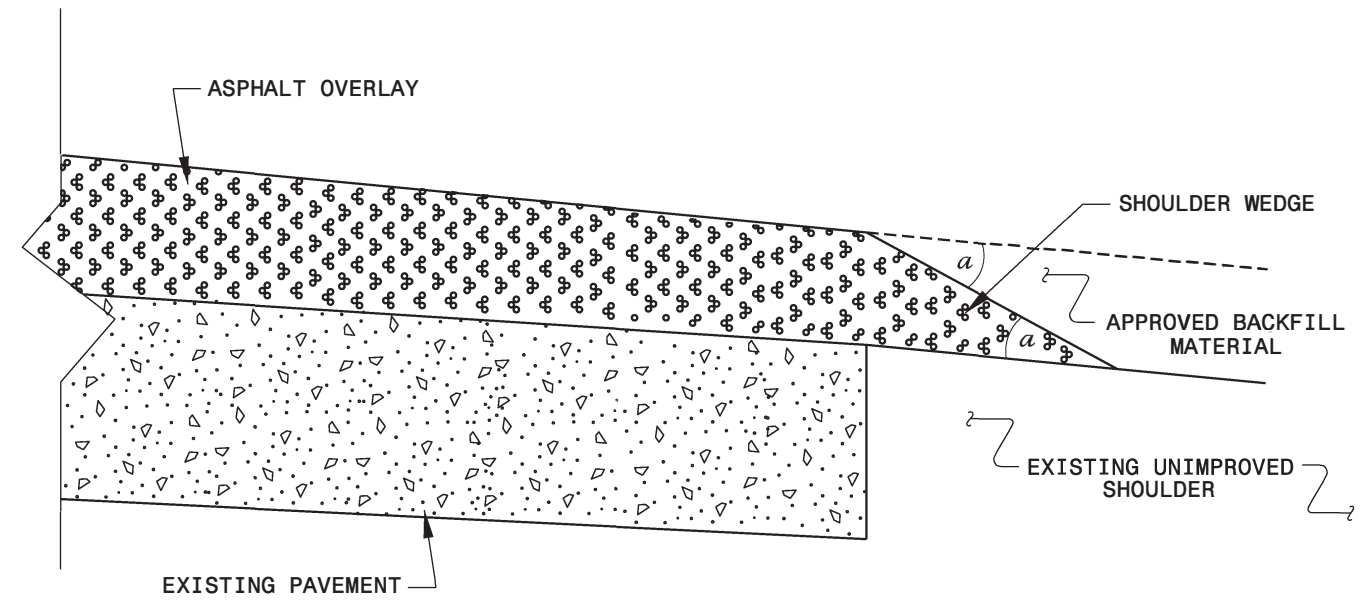
- 1) REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 3) INSTALL SNOWPLOWABLE MARKERS AT APPROXIMATELY 80' INCREMENTS. DO NOT MILL RUMBLE STRIPS IN SECTION WHERE SNOWPLOWABLE MARKERS ARE INSTALLED.

NOTES:

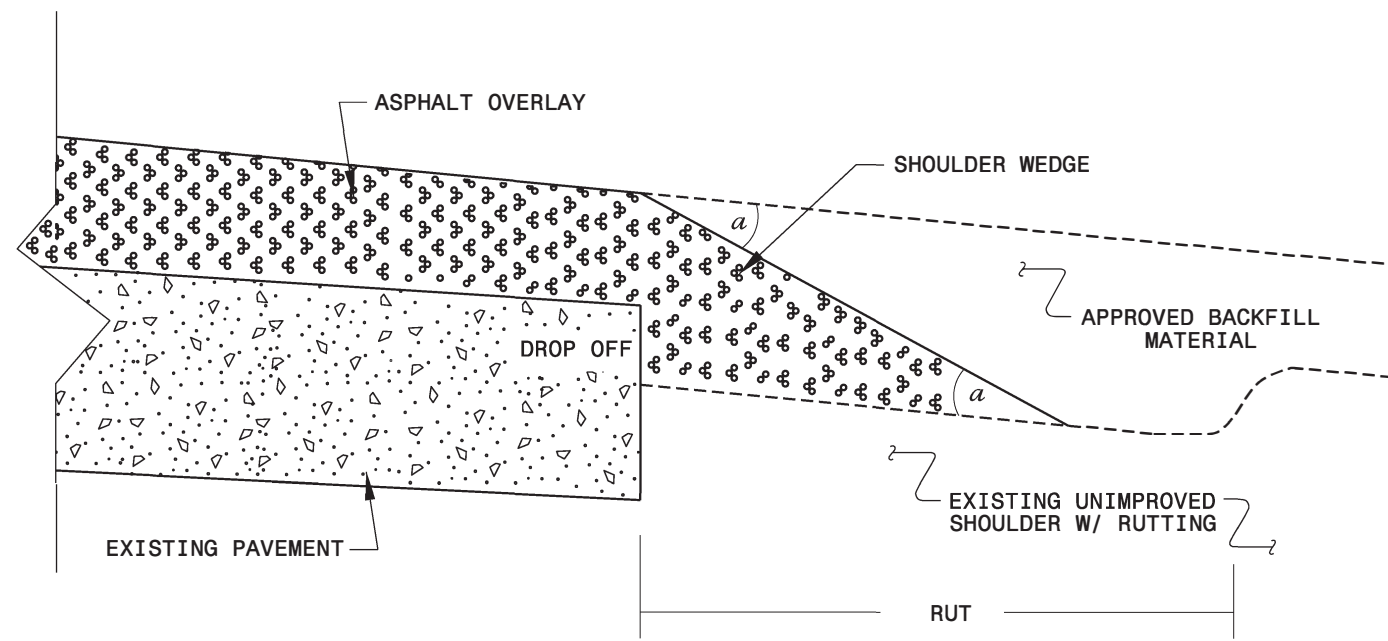
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)

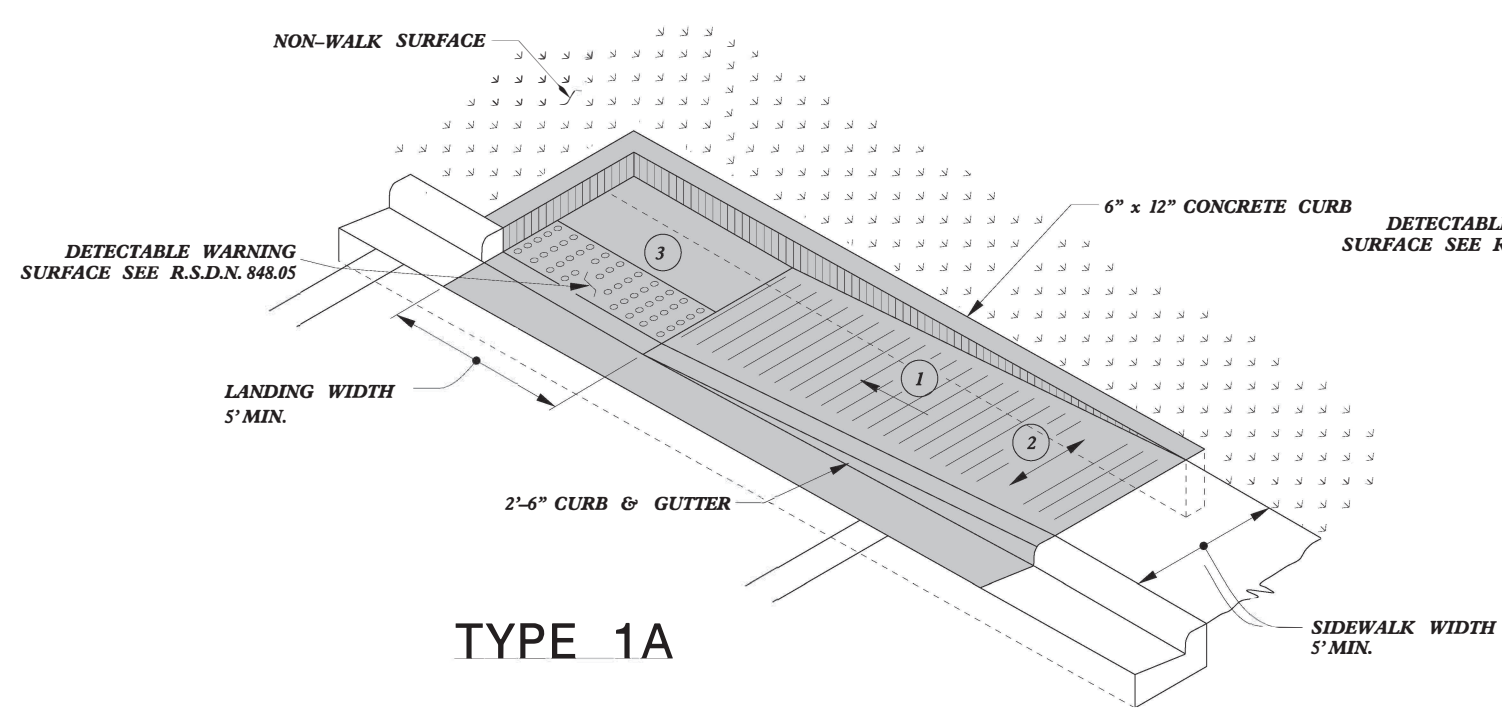


SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

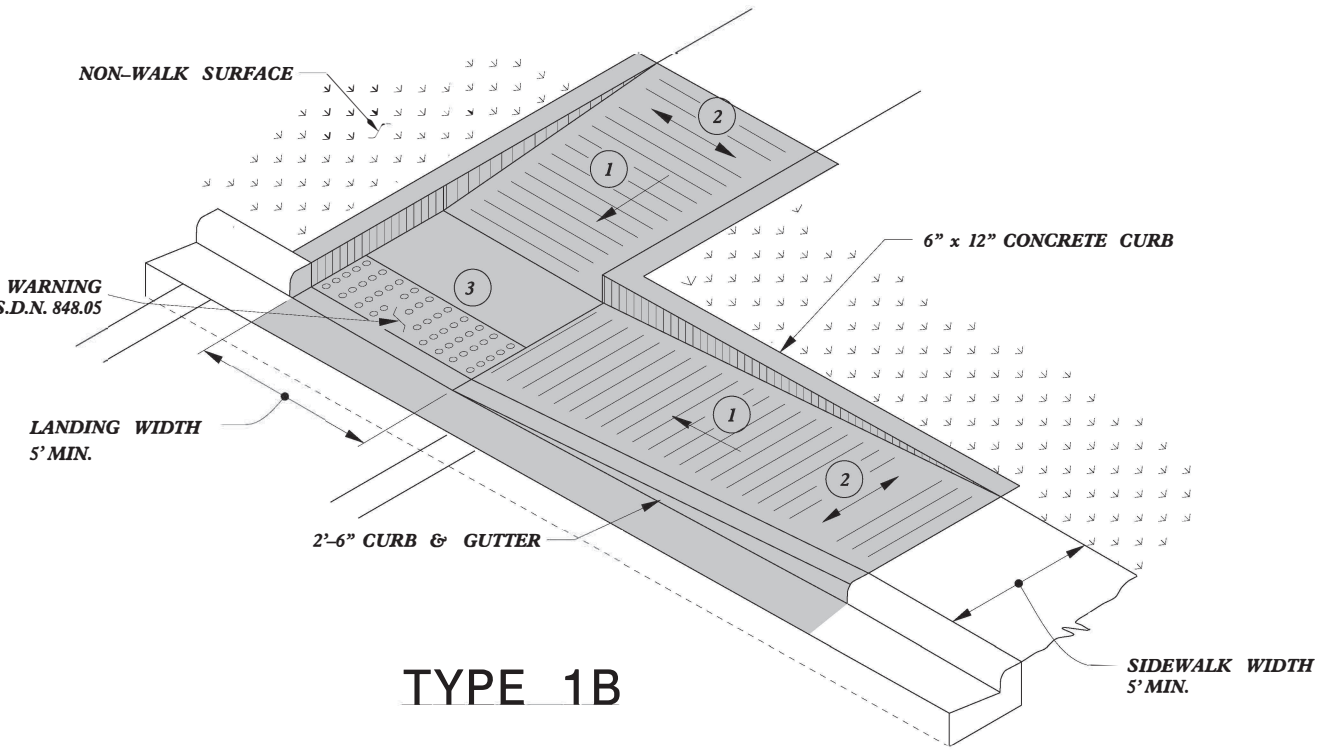
- SHOULDER WEDGE ANGLE = 30°

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

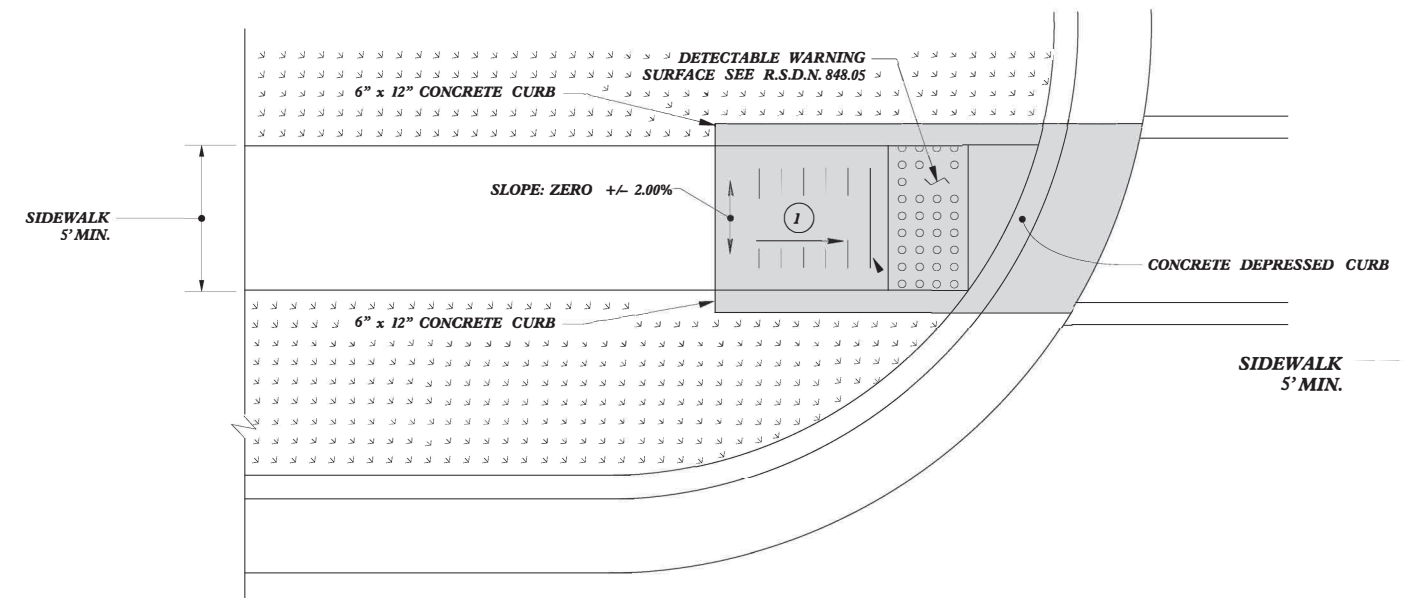
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



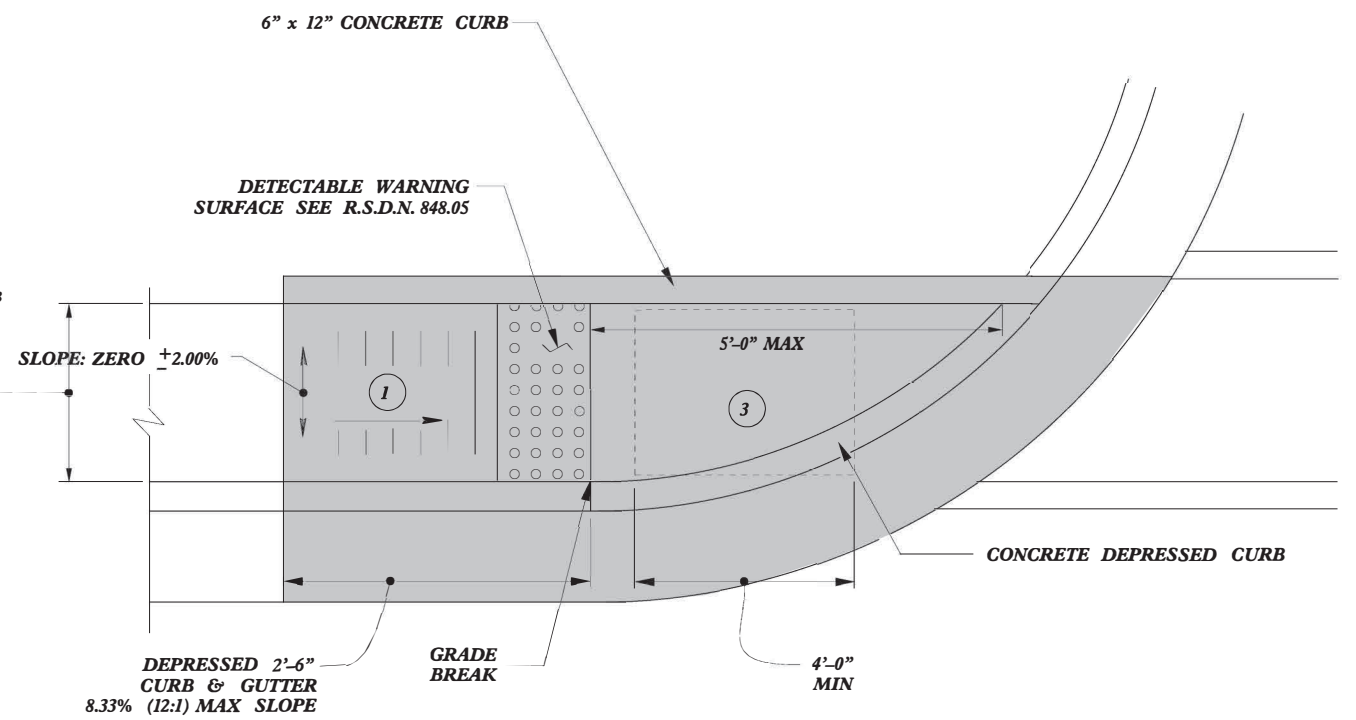
TYPE 1A



TYPE 1B



TYPE 1 Modified



TYPE 1

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

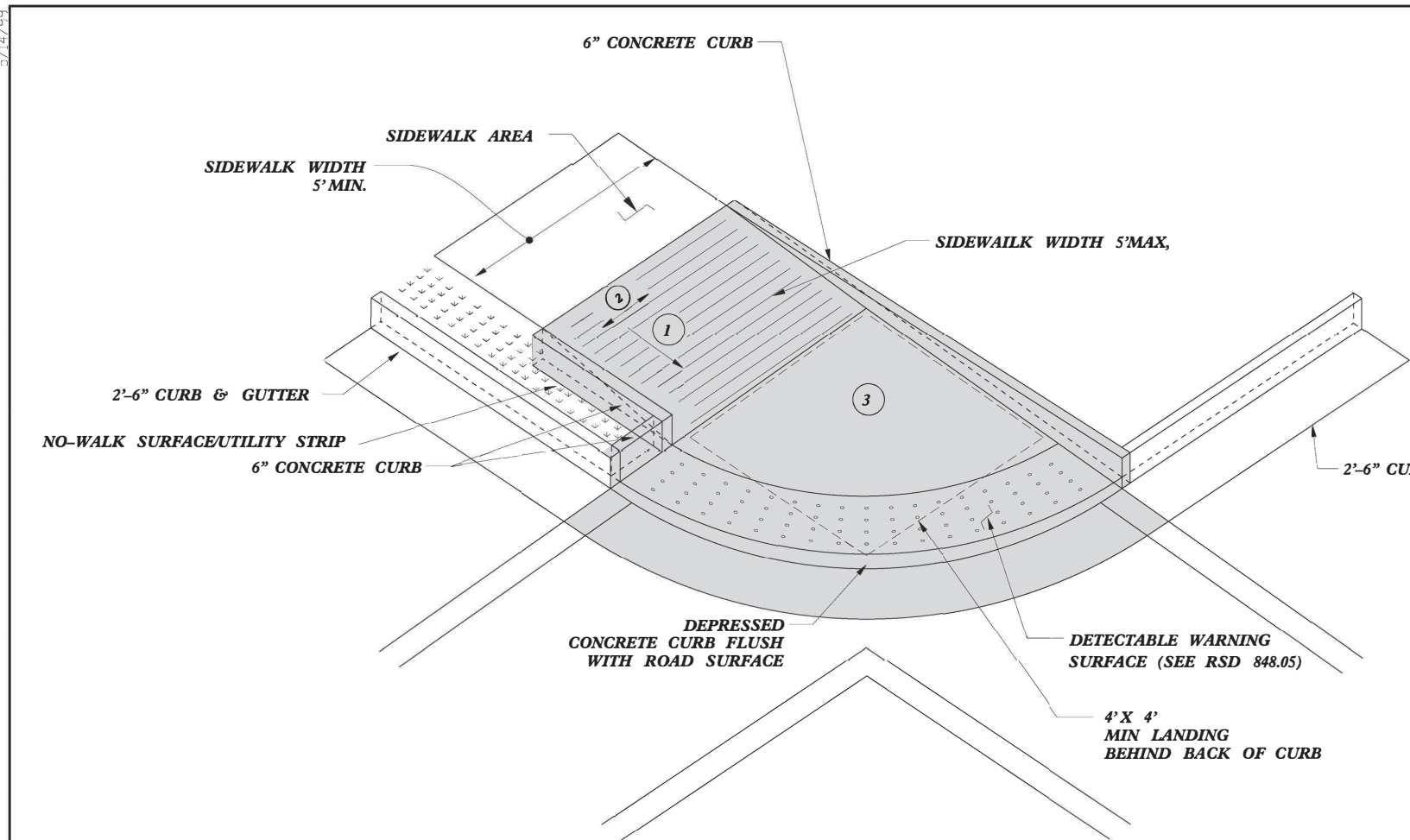
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES



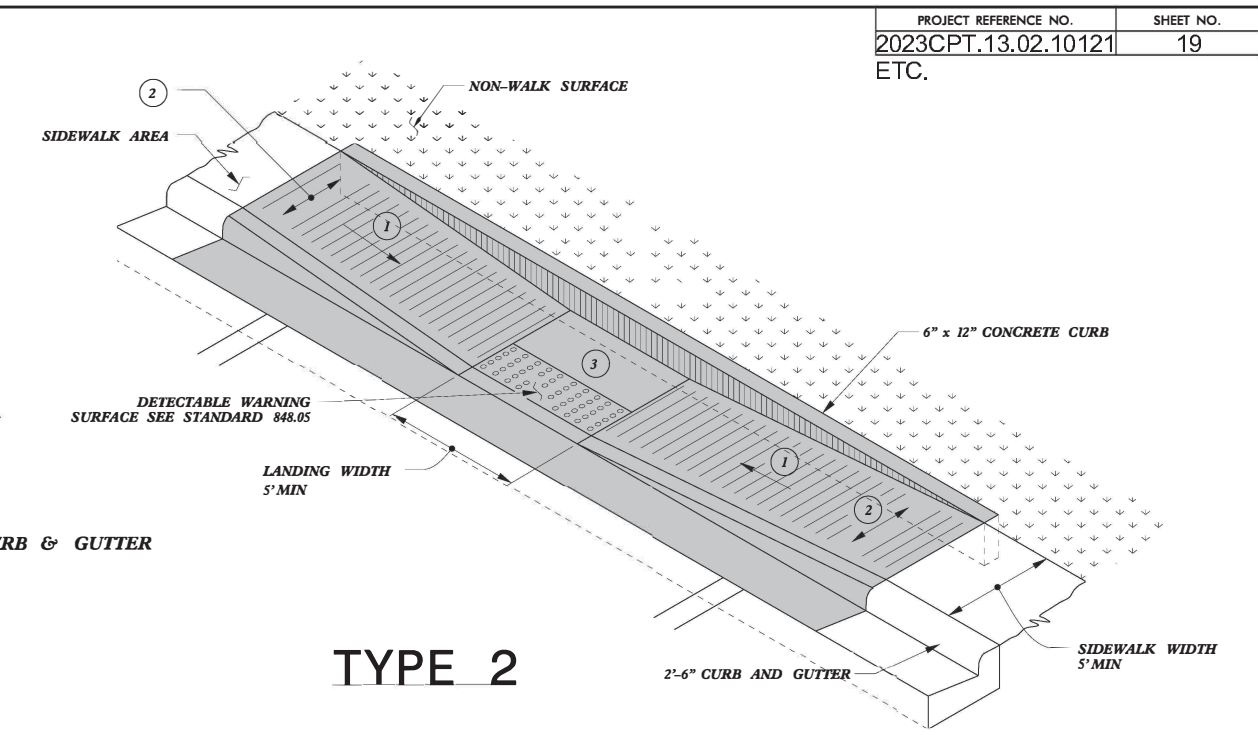
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. sids/2012CurbRamp/CurbRampDetails.dgn	

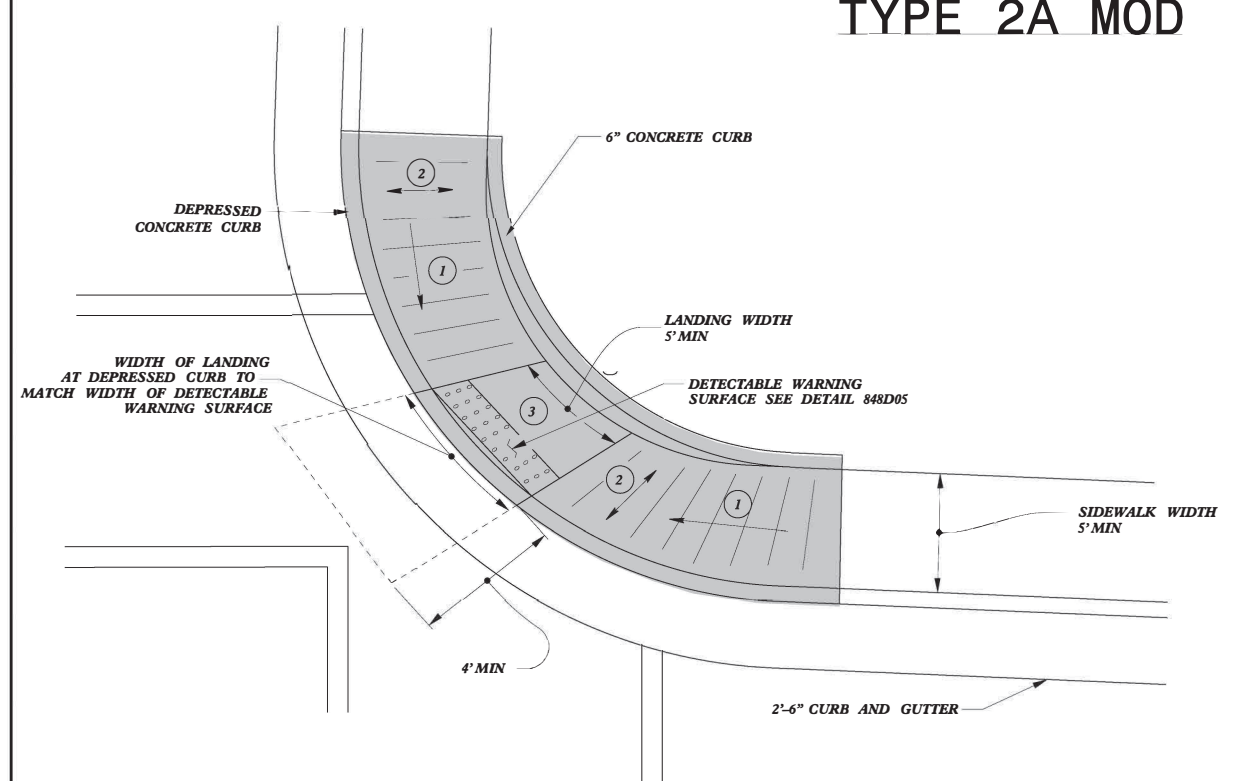
5/14/99
SYTIME
PUSERNAM



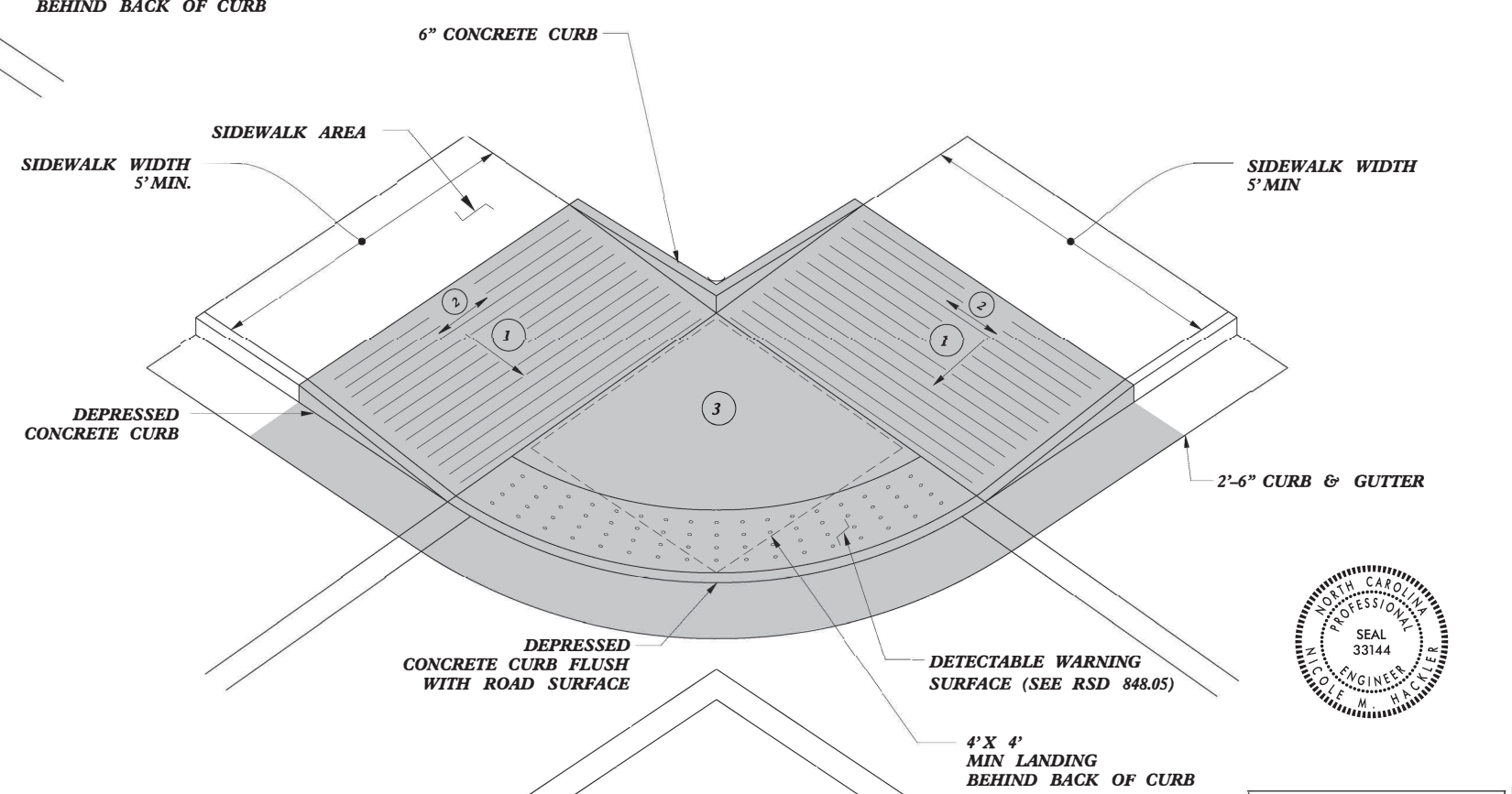
TYPE 2A MOD



TYPE 2



TYPE 2B



TYPE 2A

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

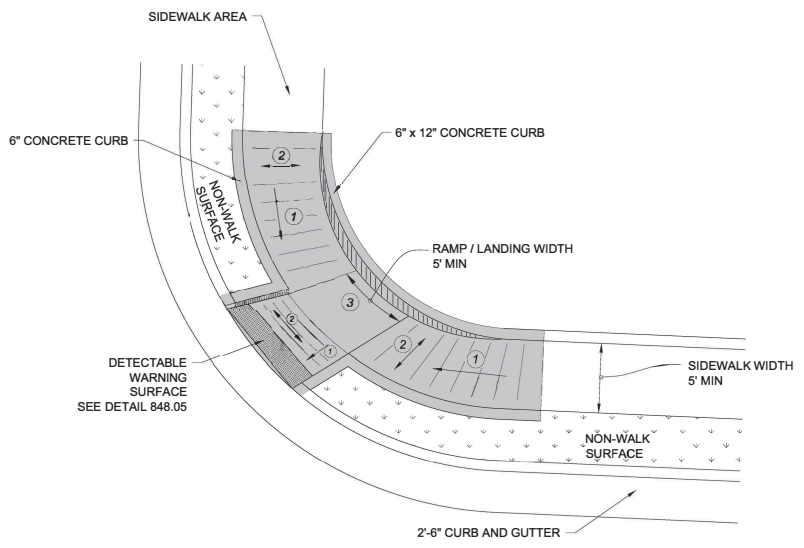


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

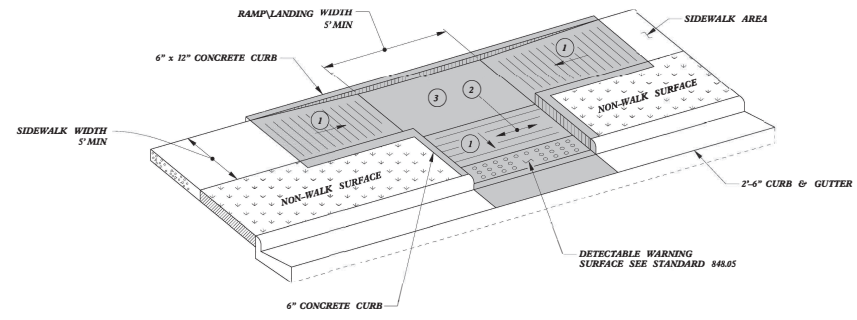
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. sids/2012CurbRamp/CurbRampDetails.dgn	

5/14/99
SYTIME
USERNAME

PAY LIMITS FOR 1 CURB RAMP



**TYPE 3 MODIFIED
INSTALLATION IN A RADIUS**



TYPE 3

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

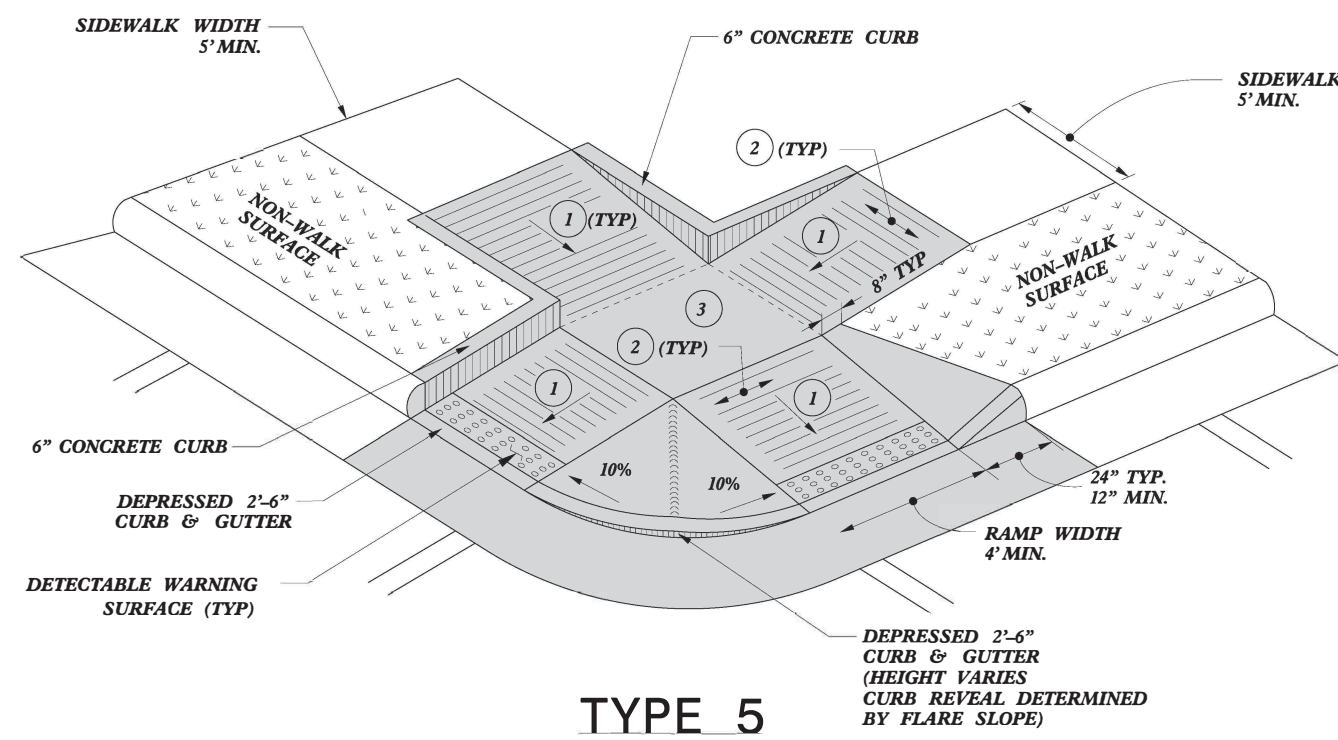
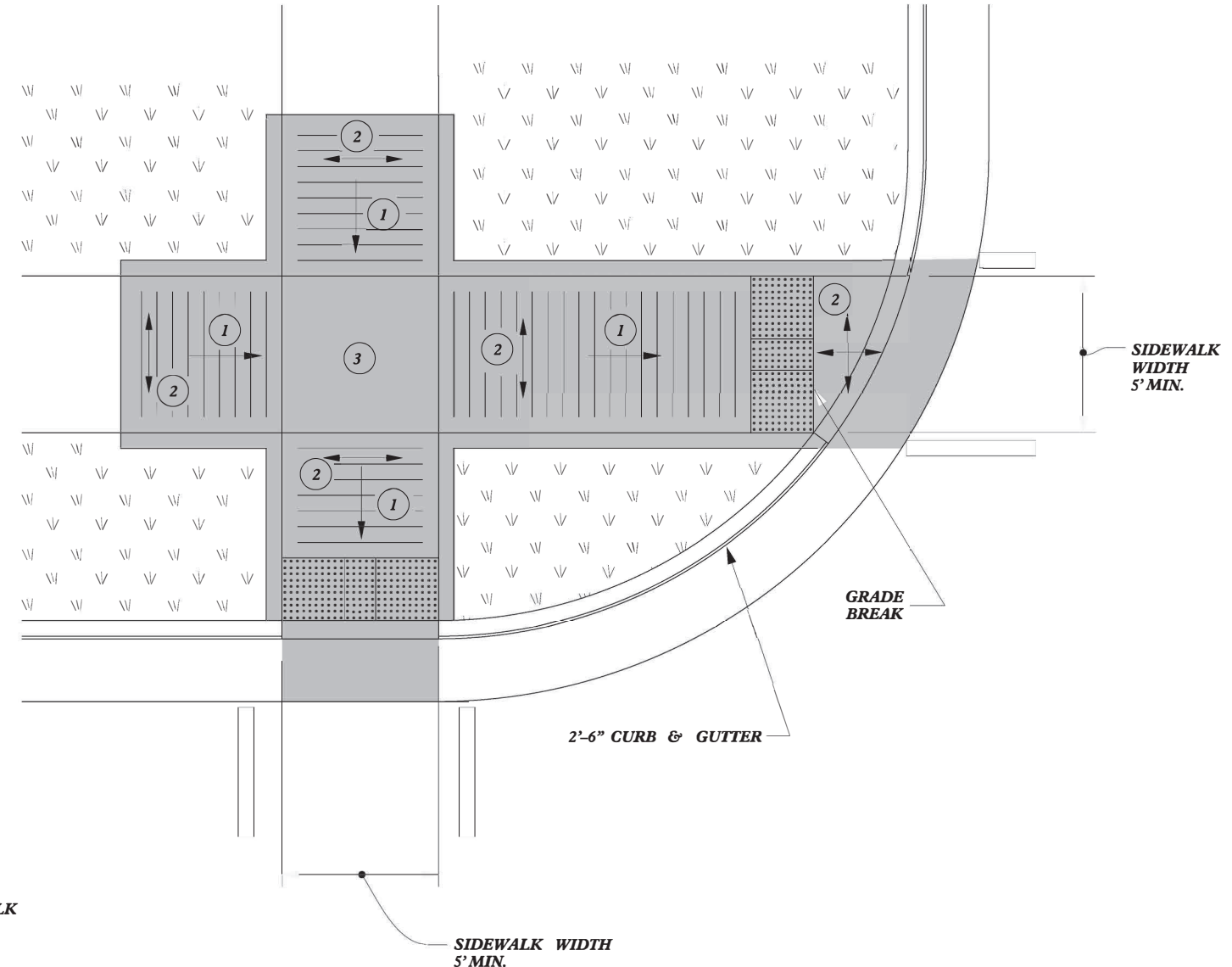


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: s:\stds\2012CurbRamp\CurbRampDetails.dgn	

5/14/09

**PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF TRUNCATED DOMES)**



- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



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

CURB RAMPS

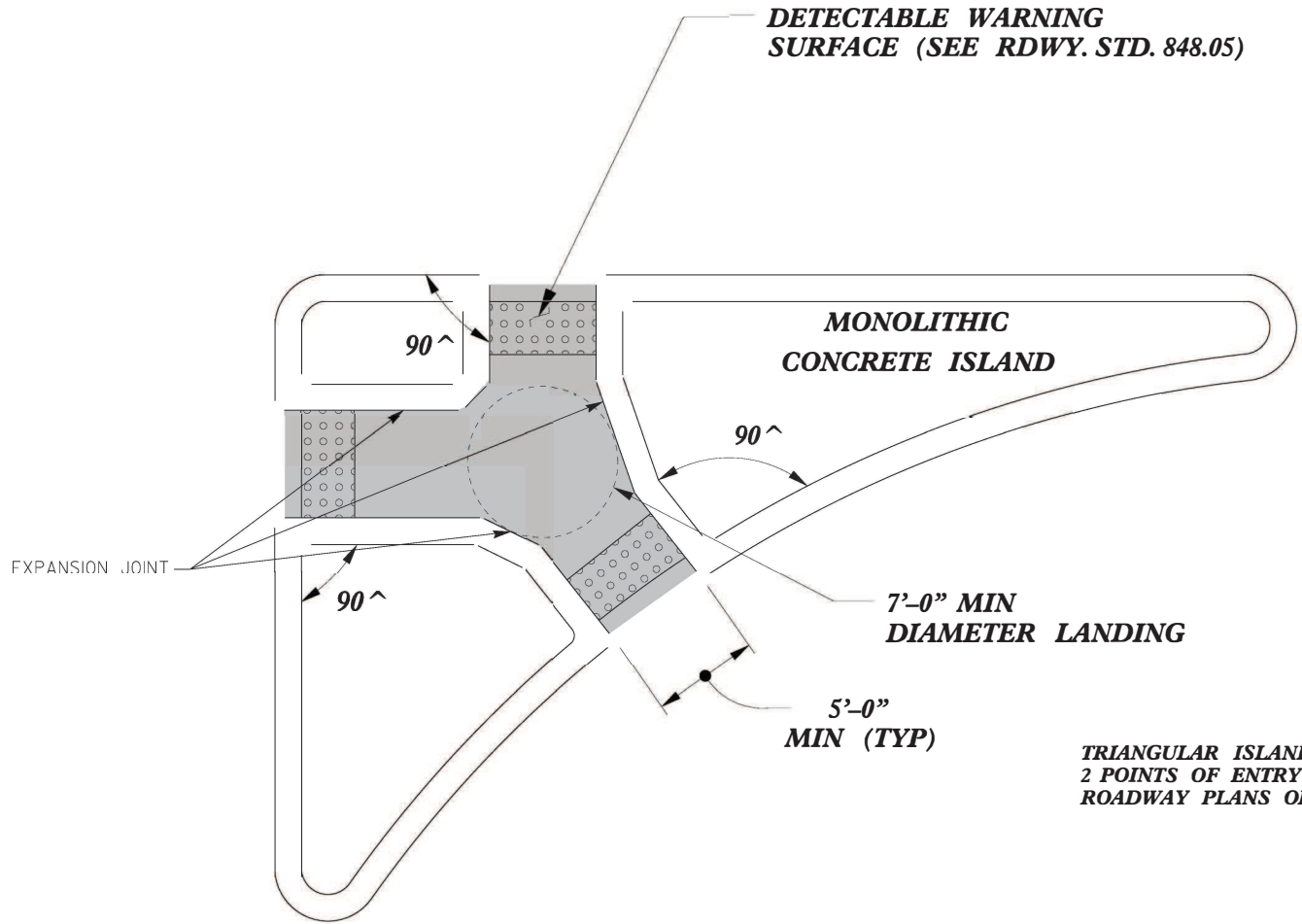
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99
 SYSTEM PERFORMANCE

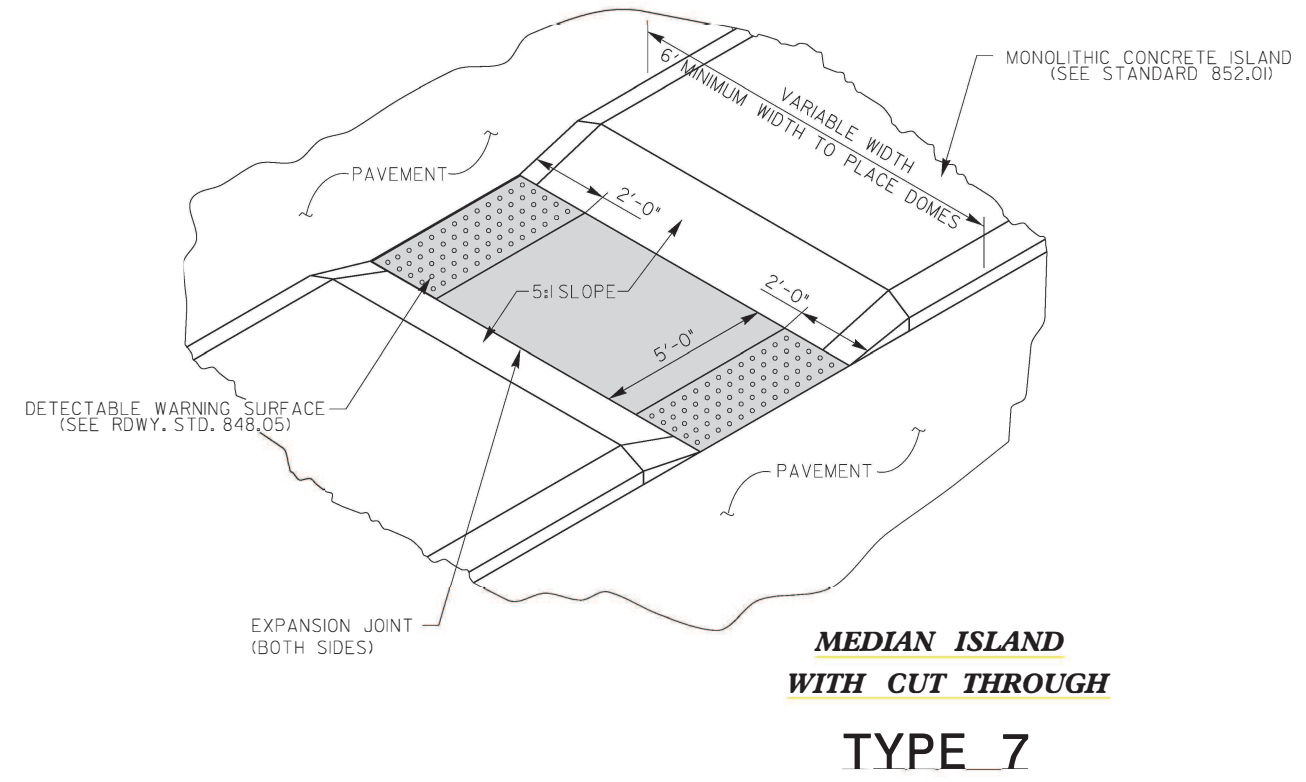
ETC.

PAY LIMITS FOR 2 OR 3 CURB RAMPS
(CALCULATE BASED ON NUMBER OF
SETS OF TRUNCATED DOMES)

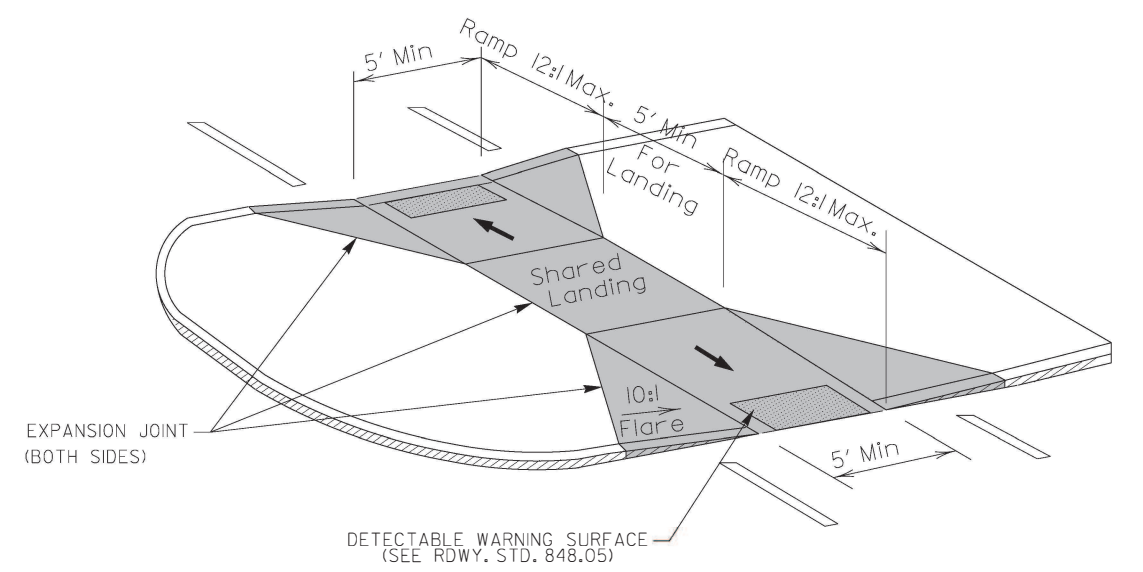


TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY
2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE
ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

**TRIANGULAR ISLAND
WITH CUT THROUGH
TYPE 6**



**MEDIAN ISLAND
WITH CUT THROUGH
TYPE 7**



**MEDIAN ISLAND
CURB RAMPS
TYPE 8**

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

CURB RAMPS
Median or Turn Lane Islands

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn



5/14/99
SYSTEM PERFORMANCE

PROJECT NO. 2023CPT.13.02.10121, 2023CPT.13.02.20121	SHEET NO. 24	TOTAL NO.
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SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP NO.	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	122000000-E	124500000-E	126000000-E	129700000-E	130800000-E	133000000-E	151900000-E	152300000-E	157500000-E	170400000-E	184000000-E	259100000-E	260500000-N	261300000-N	273800000-E	275200000-E	281500000-N	283000000-N	284500000-N	744400000-E	745600000-E				
												INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH	MILLING ASPHALT PAVEMENT, 1" DEPTH	MILLING ASPHALT PAVEMENT, 0" TO 1 1/2" DEPTH	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	MILLED RUMBLE STRIPS	4" CONCRETE SIDEWALK	CONCRETE CURB RAMP	REMOVE AND REPLACE CURB RAMPS	GENERIC PAVING ITEM REMOVE CONCRETE SIDEWALK	GENERIC PAVING ITEM REMOVE EXISTING CURB AND GUTTER	ADJUSTMENT OF DROP INLET	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)			
MI	FT	TON	SMI	TON	SY	SY	SY	SY	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA			
2023CPT.13.02.10121	Burke	1	NC-126	FROM SR 1236 (SOUTH MTN INSTITUTE RD) + 0.90 MILES TO SR 1238 (OLD HWY. 105) (MP 2.05 - MP 3.74)	1	2	2WU	NO	NO	1.69	21	85	3.49	440			1,354		1,951	120	110															
		2	NC-181 N	FROM SR 1280 (BOWMAN AVE) TO SR 1405 (BROWN MOUNTAIN BEACH RD) + 2.021 MILES (MP 5.50 - MP 14.67)	1	2	2WU	NO	NO	9.17	33	459	18.34	2,384	1,265		5,914		14,664	871	130	19,536									1					
TOTAL FOR PROJ NO. 2023CPT.13.02.10121										10.86		544	21.83	2,824	1,265		7,268		16,615	991	240	19,536								1						
2023CPT.13.02.20121	Burke	3	SR-1250 / WATERMILL RD	FROM NC 126 TO SR 1248 (FRANK WHISNANT RD) (MP 0.00 - MP 1.74)	1, 3	2	2WU	NO	YES	1.74	22	86	3.27	445		731	970		1,893	118	131															
		4	SR-1440 / SPAINHOUR RD	FROM SR 1419 (BOST RD) TO SR 1470 (WARRIOR FORK TRL) (MP 0.91 - MP 1.37)	1	2	2WU	NO	NO	0.46	19	23		0.92	120			764		480	32	84														
		5	SR-1762 / EAST BURKE BLVD	FROM SR 1760 (ICARD DAIRY BARN RD) TO US 70 (MP 0.00 - MP 1.61)	1, 4	2	2WU	NO	NO	1.61	20	81		3.22	419		256	1,019		1,947	121	137														
		6	SR-1780 / COSTNER RD	FROM SR 1002 (HENRY RIVER RD) TO (CATAWABA CO LINE) (MP 0.00 - MP 0.71)	1	2	2WU	NO	YES	0.71	21	36		1.42	185			817		814	53	99														
		7	SR-1877 / GAINES ST	FROM SR 1780 (COSTNER RD) TO END OF MAINT (MP 0.00 - MP 0.15)	5	2	2WU	NO	NO	0.15	18	8		0.30	39			105			8	30														
		8	SR-1890 / I40 ACCESS RD SE	FROM SR 1002 (SOUTH CENTER ST) TO US 70 (MP 0.00 - MP 1.24)	1	2	2WU	NO	NO	1.24	30	62		2.48	322			1,638		1,956	124	175														
		9	SR-1608 / SHADY GROVE RD	FROM US 70 TO SR 1613 (TOMLINSON LOOP RD) (MP 0.00 - MP 1.19)	1	2	2WU	NO	YES	1.19	19	60		2.38	309			935		1,229	84	236														
		10	SR-1613 / TOMLINSON LOOP	FROM SR 1608 TO SR 1608 (SHADY GROVE RD) (MP 0.00 - MP 2.51)	1	2	2WU	NO	NO	2.51	20	126		5.02	653			454		2,447	157	266														
		11	SR-1264 / GINGERCAKE RD	FROM NC 181 TO SR 1265 (TABLE ROCK RD) (MP 0.00 - MP 0.13)	1	2	2WU	NO	NO	0.13	20				0.26	34					144	10	30													
		12	SR-1215 / SAM WALL AV	FROM NC 126 TO END MAINT (MP 0.00 - MP 0.15)	5	2	2WU	NO	NO	0.15	18	8						213	125			9	10													
		13	SR-1248 / FRANK WHISNANT RD	FROM NC 126 TO NC 181 (MP 0.00 - MP 2.54)	1	2	2WU	NO	YES	2.54	22	127		5.08	660	268		1,618		2,846	178	217										1				
		14	SR-1349 / KINGLET DR	FROM SR 1248 (FRANK WHISNANT RD) TO CUL DE SAC (MP 0.00 - MP 0.80)	5	2	2WU	NO	NO	0.8	22	80							730		57	200														
		15	SR-1356 / BRAXTON GATE DR	FROM CUL DE SAC TO CUL DE SAC (MP 0.00 - MP 0.28)	6	2	2WU	NO	NO	0.28	22							3,614		199	18	113														
		16	SR-1402 / JOE POORE RD	FROM NC 181 TO NC 181 (MP 0.00 - MP 1.50)	1	2	2WU	NO	NO	1.5	19	75		3.00	390	80		875		1,539	99	162														
		17	SR-1448 / JUNE CLARK ST	FROM SR 1401 (MORTIMER RD) TO END MAINT (MP 0.00 - MP 0.29)	5	2	2WU	NO	NO	0.29	19	14							223		17	44														
		18	SR-1463 / PINE DR	FROM SR 1461 (OAK HILL DR) TO SR 1467 (FALLING BROOK LN) (MP 0.00 - MP 0.11)	5	2	2WU	NO	NO	0.11	20	6							89		6															
		19	SR-1475 / FORD RD	FROM SR 1414 (ST MARYS CHURCH RD) TO END MAINT (MP 0.00 - MP 0.13)	5	2	2WU	NO	NO	0.13	17	7							87		6	15														
		20	SR-1733 / PRALEY ST SW	FROM US 70 TO SR 1734 (CAROLINA ST) (MP 0.00 - MP 1.00)	1, 2, 3	2	2WU	NO	YES	1	32	50		2.00	260	5,915		3,110	120		1,685	103	75						3	32	32					
		21	SR-1791 / HILDEBRAN MOUNTAIN AV	FROM SR 1786 (MILER BRIDGE RD) TO END MAINT (MP 0.00 - MP 0.81)	5	2	2WU	NO	NO	0.81	18	86							606		43	84														
		22	SR-2516 / SHAMROCK DR	FROM SR 1761 (OLD NC 10) TO SR 1765 (BERRY RD) (MP 0.00 - MP 0.47)	5	2	2WU	NO	NO	0.47	19	24							380		29	84														
		23	SR-2517 / BEVERLY HILLS DR	FROM SR 1809 (S FORK AVE) TO DEAD END (MP 0.00 - MP 0.17)	5	2	2WU	NO	NO	0.17	18.5	9							130		9	15														
		24	HILDEBRAN ELEMENTARY SCHOOL (BUS ROUTE)	FROM US 70 TO 1ST STREET (MP 0.00 - MP 0.33)	1, 2	2	2WD	NO	NO	0.33	25			0.44	104	2,050		110		348	22	31					2									
		25	SR-1761 / MAIN AV E	FROM I-40 EXIT 118 W BOUND RAMP TO US 70 (MP 2.57 - MP 4.22)	4	2	2WU	NO	NO	1.66	24			3.06	86			2,167	1,132		2,020	122	60			4	4			33			364	10		
		26	SR-1002 / S CENTER ST	FROM SR 1890 TO US 70 (MP 1.75 - MP 2.35)	4	2	2WU	NO	NO	0.63	29			0.63	32			1,294	1,288		925	59	100			3	2			20		2				
		TOTAL FOR PROJ NO. 2023CPT.13.02.20121										20.61		968	33.48	4,058	8,313	3,614	7,558		2,674	20,273	1,484	2,398					33	20	3	34	33	364	10	
		GRAND TOTAL										31.47		1,512	55.31	6,882	9,578	3,614	7,558		2,674	36,888	2,475	2,638	19,536	7	6	2	33	20	3	34	34	364	10	

THERMOPLASTIC AND PAINT QUANTITIES

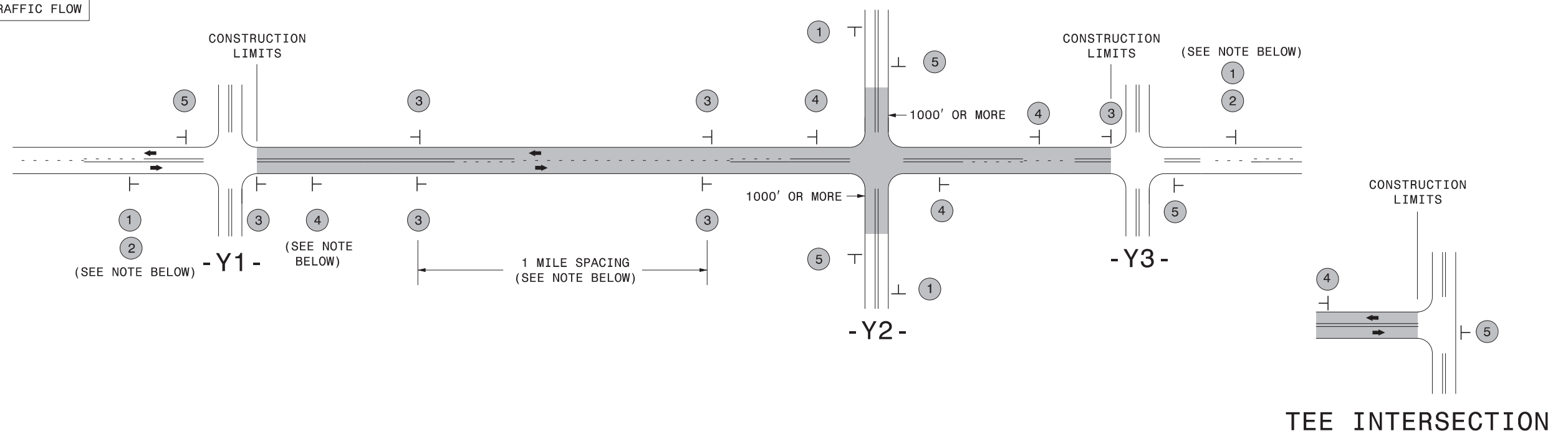
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E WORK ZONE ADVANCE /GENERAL WARNING SIGNING	4447000000-E PEDESTRIAN CHANNELIZIN G DEVICES	4457000000-N TEMPORARY TRAFFIC CONTROL	4685000000-E		4695000000-E	4704000000-E	4709000000-E		4720000000-E		4725000000-E						4810000000-E		4820000000-E	4830000000-E	4835000000-E	4840000000-N	4890000000-E		4905100000-E						
													THERMOPLAS TIC PAVEMENT MARKING LINES (4", 90 MILS) WHITE	THERMOPLAS TIC PAVEMENT MARKING LINES (4", 90 MILS) YELLOW	THERMOPLAS TIC PAVEMENT MARKING LINES (8", 90 MILS) WHITE	THERMOPLAS TIC PAVEMENT MARKING LINES (16", 90 MILS)	THERMOPLAS TIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE STOP BAR	THERMOPLAS TIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE HI- VISIBILITY CROSSWALK	THERMOPLAS TIC PAVEMENT MARKING CHARACTER (90 MILS) RXR	THERMOPLAS TIC PAVEMENT MARKINGCHA RACTER (90 MILS) (SCHOOL)	THERMOPLAS TIC PAVEMENT MARKING SYMBOL (90 MILS) LT ARROW	THERMOPLAS TIC PAVEMENT MARKING SYMBOL (90 MILS) STR ARROW	THERMOPLAS TIC PAVEMENT MARKING SYMBOL (90 MILS) RT ARROW	THERMOPLAS TIC PAVEMENT MARKING SYMBOL (90 MILS) STR & LT ARROW	THERMOPLAS TIC PAVEMENT MARKING SYMBOL (90 MILS) MERGE ARROW	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING LINES (8") WHITE	PAINT PAVEMENT MARKING LINES (16")	PAINT PAVEMENT MARKING LINES (24") WHITE	PAINT PAVEMENT MARKING CHARACTER (RXR)	HOT SPRAY THERMOPLAS TIC PAVEMENT MARKING LINES (WHITE) (4", 55 MILS)	HOT SPRAY THERMOPLAS TIC PAVEMENT MARKING LINES (YELLOW) (4", 55 MILS)	NON-CAST IRON SNOWPLOWA BLE PAVEMENT MARKERS							
2023CPT.13.02.10121	Burke	1	NC-126	FROM SR 1236 (SOUTH MTN INSTITUTE RD) + 0.90 MILES TO SR 1238 (OLD HWY. 105) (MP 2.05 - MP 3.74)	1	2	2WU	1.69	21	190			*																					18,805	19,761	120					
		2	NC-181 N	FROM SR 1280 (BOWMAN AVE) TO SR 1405 (BROWN MOUNTAIN BEACH RD) + 2.021 MILES (MP 5.50 - MP 14.67)	1	2	2WU	9.17	33	1,028						94,955	94,195																					615			
TOTAL FOR PROJ NO. 2023CPT.13.02.10121								10.86		1,218			*		94,955	94,195					2	1	1												18,805	19,761	735				
													189,150		4						38,566																				
2023CPT.13.02.20121	Burke	3	SR-1250 / WATERMILL RD	FROM NC 126 TO SR 1248 (FRANK WHISNANT RD) (MP 0.00 - MP 1.74)	1, 3	2	2WU	1.74	22	196																									18,140	18,140					
		4	SR-1440 / SPAINHOUR RD	FROM SR 1440 (BOST RD) TO SR 1470 (WARRIOR FORK TRL) (MP 0.91 - MP 1.37)	1	2	2WU	0.46	19	54																										4,913	3,003				
		5	SR-1762 / EAST BURKE BLVD	FROM SR 1760 ((CARD DAIRY BARN RD) TO US 70 (MP 0.00 - MP 1.61)	1, 4	2	2WU	1.61	20	180								80			12																17,001	17,001			
		6	SR-1780 / COSTNER RD	FROM SR 1002 (HENRY RIVER RD) TO (CATAWABA CO LINE) (MP 0.00 - MP 0.71)	1	2	2WU	0.71	21	80																											7,498	7,495			
		7	SR-1877 / GAINES ST	FROM SR 1780 (COSTNER RD) TO END OF MAINT (MP 0.00 - MP 0.15)	5	2	2WU	0.15	18	16																															
		8	SR-1890 / I40 ACCESS RD SE	FROM SR 1002 (SOUTH CENTER ST) TO US 70 (MP 0.00 - MP 1.24)	1	2	2WU	1.24	30	140							13,860	13,095							3	3	3														
		9	SR-1608 / SHADY GROVE RD	FROM US 70 TO SR 1613 (TOMLINSON LOOP RD) (MP 0.00 - MP 1.19)	1	2	2WU	1.19	19	134																												12,994	12,494		
		10	SR-1613 / TOMLINSON LOOP	FROM SR 1608 TO SR 1608 (SHADY GROVE RD) (MP 0.00 - MP 2.51)	1	2	2WU	2.51	20	284																													27,468	26,361	
		11	SR-1264 / GINGERCAKE RD	FROM NC 181 TO SR 1265 (TABLE ROCK RD) (MP 0.00 - MP 0.13)	1	2	2WU	0.13	20	40																													1,482	1,372	
		12	SR-1215 / SAM WALL AV	FROM NC 126 TO END MAINT (MP 0.00 - MP 0.15)	5	2	2WU	0.15	18	16																															
		13	SR-1248 / FRANK WHISNANT RD	FROM NC 126 TO NC 181 (MP 0.00 - MP 2.54)	1	2	2WU	2.54	22	284																														26,822	26,722
		14	SR-1349 / KINGLET DR	FROM SR 1248 (FRANK WHISNANT RD) TO CUL DE SAC (MP 0.00 - MP 0.80)	5	2	2WU	0.8	22	90																															
		15	SR-1356 / BRAXTON GATE DR	FROM CUL DE SAC TO CUL DE SAC (MP 0.00 - MP 0.28)	6	2	2WU	0.28	22	32																															
		16	SR-1402 / JOE POORE RD	FROM NC 181 TO NC 181 (MP 0.00 - MP 1.50)	1	2	2WU	1.5	19	168																														15,734	15,634
		17	SR-1448 / JUNE CLARK ST	FROM SR 1401 (MORTIMER RD) TO END MAINT (MP 0.00 - MP 0.29)	5	2	2WU	0.29	19	32																															
		18	SR-1463 / PINE DR	FROM SR 1461 (OAK HILL DR) TO SR 1467 (FALLING BROOK LN) (MP 0.00 - MP 0.11)	5	2	2WU	0.11	20	32																															
		19	SR-1475 / FORD RD	FROM SR 1414 (ST MARYS CHURCH RD) TO END MAINT (MP 0.00 - MP 0.13)	5	2	2WU	0.13	17	16																															
		20	SR-1733 / PRALEY ST SW	FROM US 70 TO SR 1734 (CAROLINA ST) (MP 0.00 - MP 1.00)	1, 2, 3	2	2WU	1	32	116							9,505	9,400	360	80	72		4				9,505	9,400	360	80	72	4									
		21	SR-1791 / HILDEBRAN MOUNTAIN AV	FROM SR 1786 (MILER BRIDGE RD) TO END MAINT (MP 0.00 - MP 0.81)	5	2	2WU	0.81	18	92																															
		22	SR-2516 / SHAMROCK DR	FROM SR 1761 (OLD NC 10) TO SR 1765 (BERRY RD) (MP 0.00 - MP 0.47)	5	2	2WU	0.47	19	54																															
		23	SR-2517 / BEVERLY HILLS DR	FROM SR 1809 (S FORK AVE) TO DEAD END (MP 0.00 - MP 0.17)	5	2	2WU	0.17	18.5	24																															
		24	HILDEBRAN ELEMENTARY SCHOOL (BUS ROUTE)	FROM US 70 TO 1ST STREET (MP 0.00 - MP 0.33)	1, 2	2	2WD	0.33	25	48																															
		25	SR-1761 / MAIN AV E	FROM I-40 EXIT 118 W BOUND RAMP TO US 70 (MP 2.57 - MP 4.22)	4	2	2WU	1.66	24	192							18,026	17,564	215																						
		26	SR-1002 / S CENTER ST	FROM SR 1890 TO US 70 (MP 1.75 - MP 2.35)	4	2	2WU	0.63	29	72							6,476	6,030																							
		TOTAL FOR PROJ NO. 2023CPT.13.02.20121								20.61		2,392	32	*		47,867	46,569	678	80	300	452	4	18	2		4	3	3	9,505	9,400	360	80	72	4			132,052	128,222	80		
															94,436		752						22		12		18,905		260,274												
GRAND TOTAL									31.47		3,610	32	1	142,822	140,764	678	80	300	452	4	18	4	1	5	3	3	9,505	9,400	360	80	72	4			150,857	147,983	815				
													283,586		752						22		16		18,905		298,840														

SIGNING FOR RESURFACING PROJECTS

LEGEND

┆ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

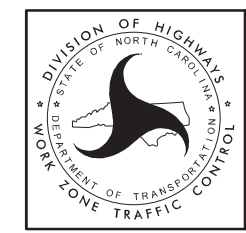
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	2		#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		- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4		- 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		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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

MAPS LESS THAN 2 MILES

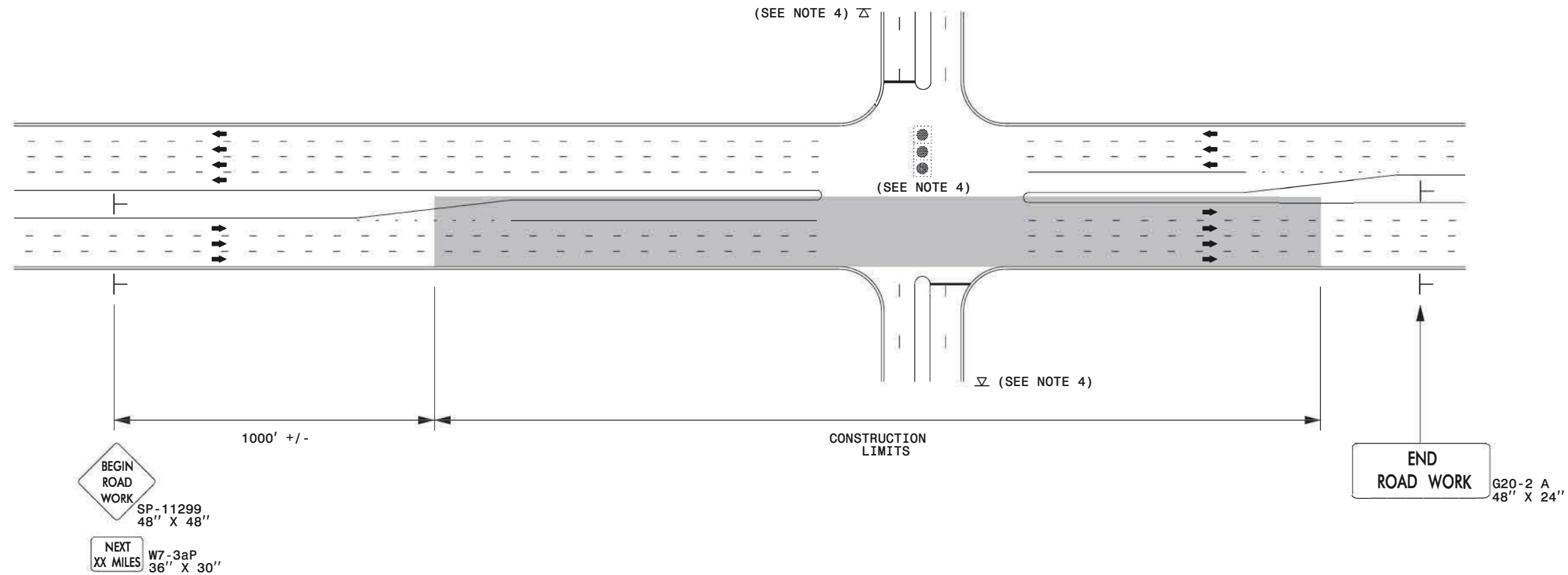
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



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

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

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



**RESURFACING ADVANCE
WARNING SIGNS FOR
URBAN / SUBURBAN
FACILITIES**

SIGN NUMBER: 11299

BACKG COLOR: Fluorescent Orange

DESIGN BY: WJ

CHECKED BY:

DATE: Jun 22, 2011

TYPE: B

COPY COLOR: Black

PROJECT ID: ALL

DIV: ALL

QUANTITY: SEE PLANS

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 5'-6"

HEIGHT: 5'-6"

TOTAL AREA: 30.5 Sq.Ft.

BORDER TYPE: INSET

RECESS: 0.59"

WIDTH: 0.75"

RADII: 1.38"

NO. Z BARS: N/A

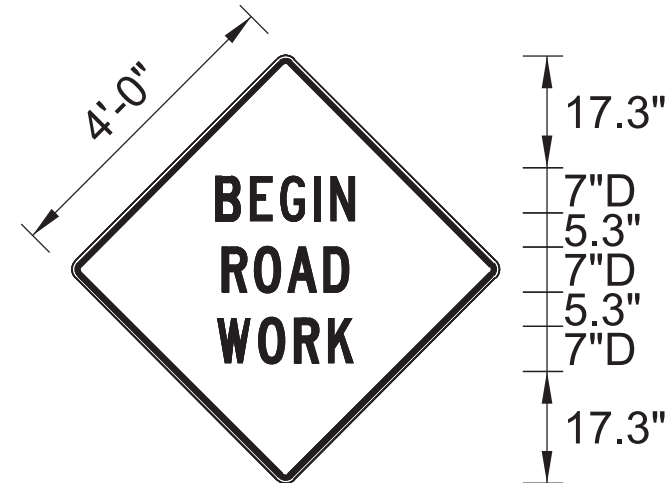
LENGTH: N/A

MAT'L: 0.125" (3.2 mm) ALUMINUM

SP 11299

2023CPT.13.02.10121,
2023CPT.13.02.20121

TMP-3



BORDER
R=1.38"
TH=0.75"
IN=0.59"

Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size
Text Length

Letter spacings are to start of next letter																Series/Size Text Length	
	B	E	G	I	N												D 2000
20.5	6	5.4	6.3	2.8	4.8	20.5											25.2
	R	O	A	D													D 2000
21.4	5.8	5.9	7	4.8	21.4												23.5
	W	O	R	K													D 2000
20.9	7.1	6.5	5.9	4.9	20.9												24.5

SIGN NUMBER: SP13106

BACKG COLOR: Fluorescent Orange

DESIGN BY: B. RASHID

CHECKED BY: AIA

DATE: Apr 26, 2013

TYPE: STATIONARY

COPY COLOR: Black

PROJECT ID:

DIV:

QUANTITY: SEE PLANS

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 4'-0"

HEIGHT: 4'-0"

TOTAL AREA: 16.00 Sq.Ft.

BORDER TYPE: INSET

RECESS: 0.75"

WIDTH: 1.25"

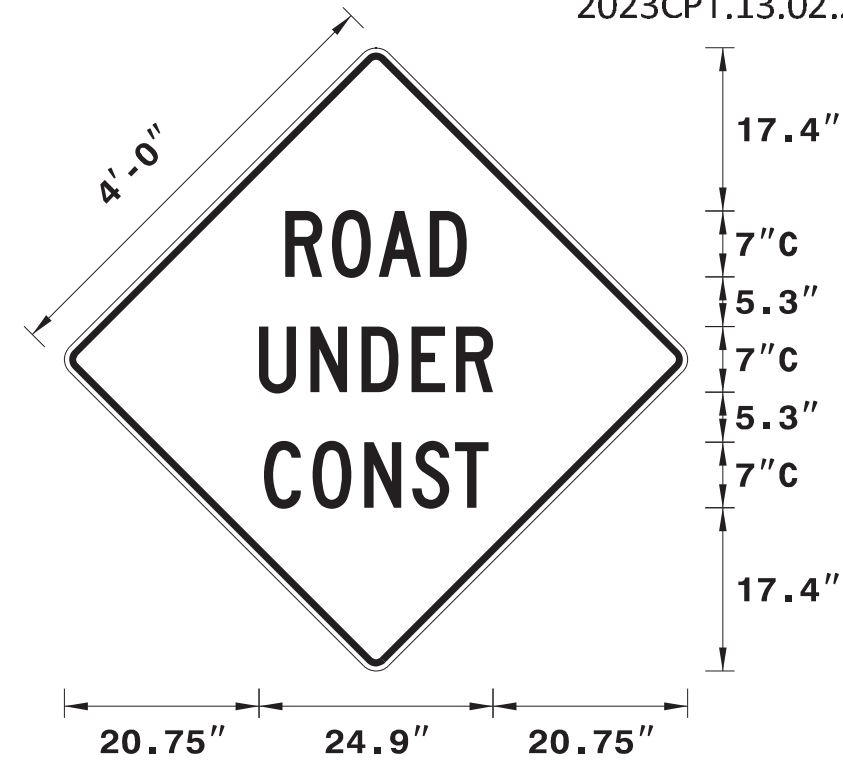
RADII: 3"

NO. Z BARS:

LENGTH:

MAT'L: 0.080" (2.0 mm) ALUMINUM

2023CPT.13.02.10121, [?]TMP-4
2023CPT.13.02.20121



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

- 1. Legend and border shall be direct applied black non-reflective sheeting.
- 2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter																				Series/Size Text Length
		R	O	A	D															C 2000
	23.5	5	5	5.5	3.9	23.5														19.3
		U	N	D	E	R														C 2000
	20.7	5.5	5.5	5.3	4.8	3.9	20.7													24.9
		C	O	N	S	T														C 2000
	21.2	5.2	5.5	5.1	4.6	3.6	21.2													23.9

SIGN NUMBER: SP13107
TYPE: STATIONARY
QUANTITY: SEE PLANS

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

DESIGN BY: B. RASHID
PROJECT ID:

CHECKED BY: AIA
DIV:

DATE: Apr 26, 2013

SIGN WIDTH: 4'-0"
HEIGHT: 4'-0"
TOTAL AREA: 16.00 Sq.Ft.

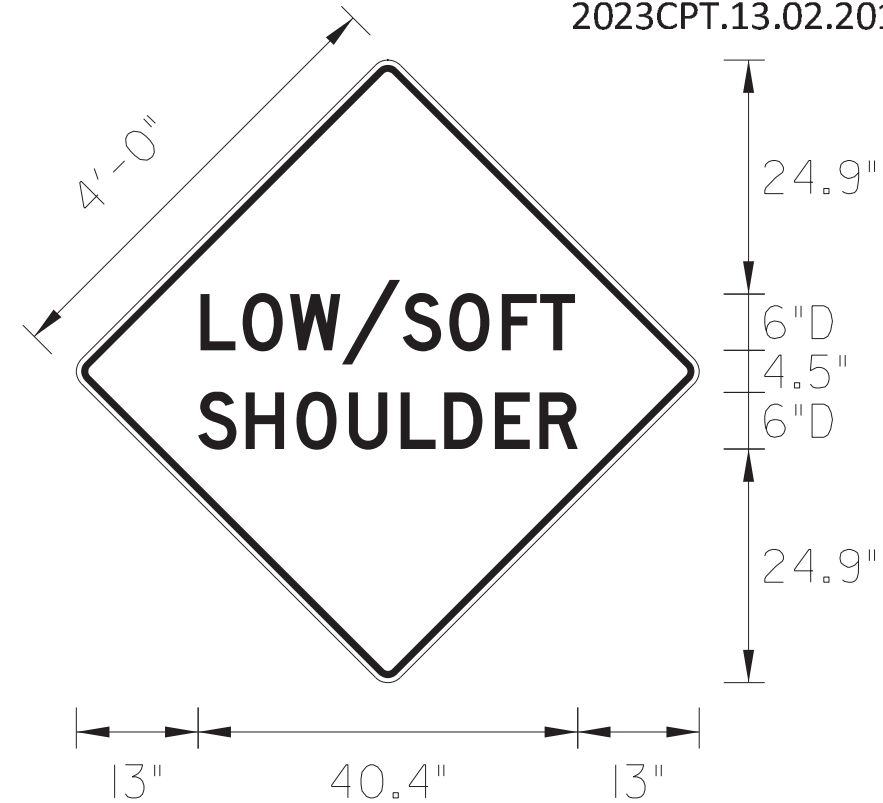
SYMBOL	X	Y	WID	HT

BORDER TYPE: INSET
RECESS: 0.75"
WIDTH: 1.25"
RADII: 3"

NO. Z BARS:
LENGTH:

MAT'L: 0.080" (2.0 mm) ALUMINUM

2023CPT.13.02.10121, TMP-5
 2023CPT.13.02.20121



Spacing Factor is 1 unless specified otherwise

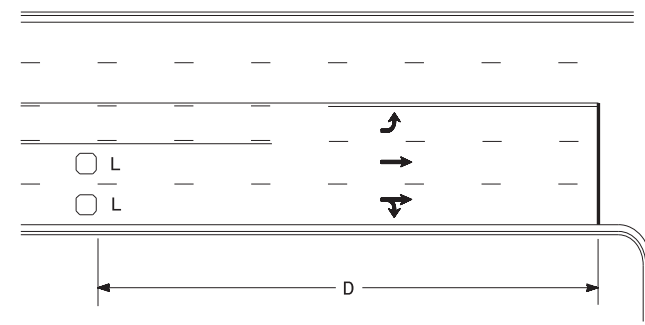
USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluoesent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size
	L	O	W	/	S	O	F	T			Text Length
	13.2	4.5	5	5.5	6.5	5	5.6	4.1	3.7	13.2	D 2000
											39.9
		S	H	O	U	L	D	E	R		D 2000
	13	5.1	5.4	5.6	5.5	4.6	5.4	4.7	4.1	13	40.4

High Speed Detection (≥40 mph)

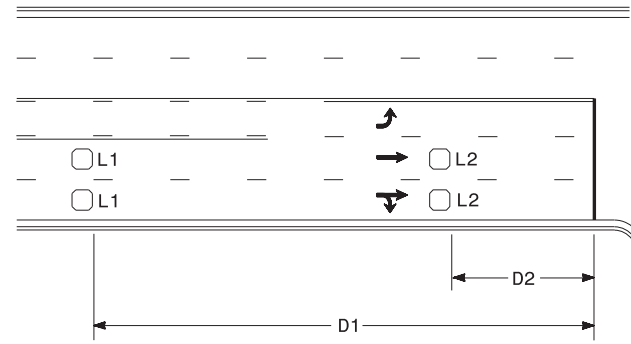


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR



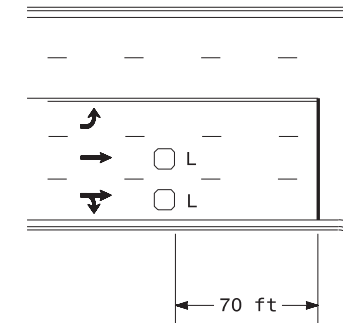
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

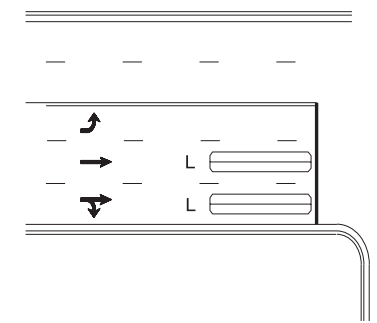
"Stretch" Operation

Low Speed Detection (≤35 mph)



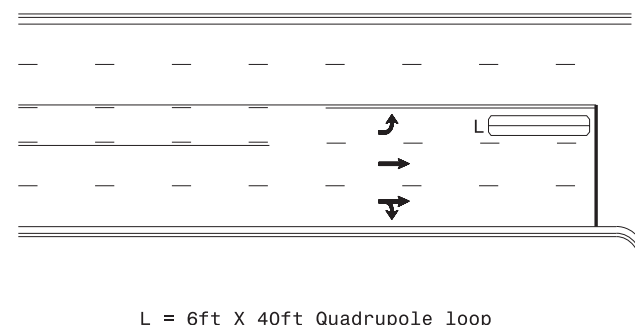
L = 6ft X 6ft
Wired in series

OR



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

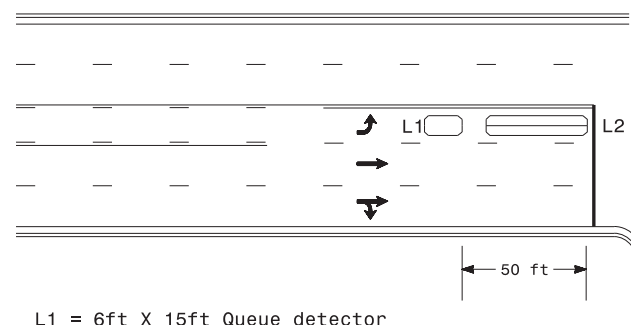
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

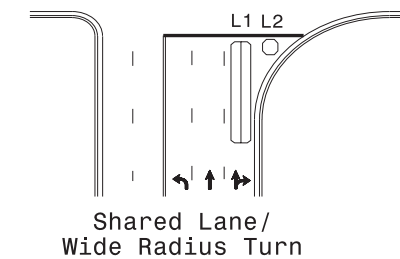
OR



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

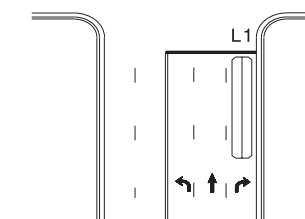
Queue Loop Detection

Right Turn Lane Detection

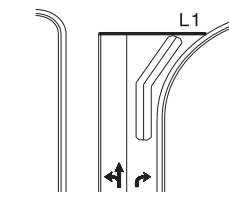


Shared Lane/
Wide Radius Turn

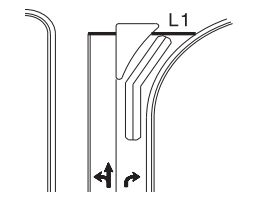
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

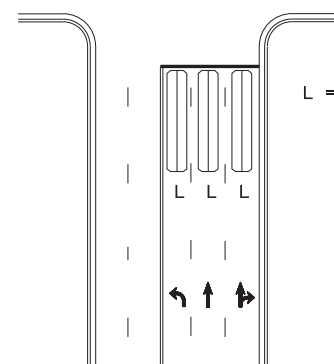


Wide Radius Turn



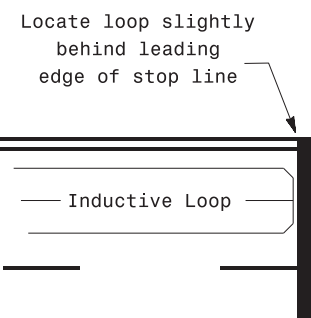
Channelized Turn

Side Street Detection



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

Presence Loop Placement at Stop Lines



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

	Typical Signal Loop Locations		
	PLAN DATE: September 2020 PREPARED BY: PLA	REVIEWED BY: JPG REVIEWED BY:	
REVISIONS		INIT. DATE	DATE
750 N. Greenfield Pkwy, Garner, NC 27529		Jason P. Gallaway ENGINEER 9/8/2020	