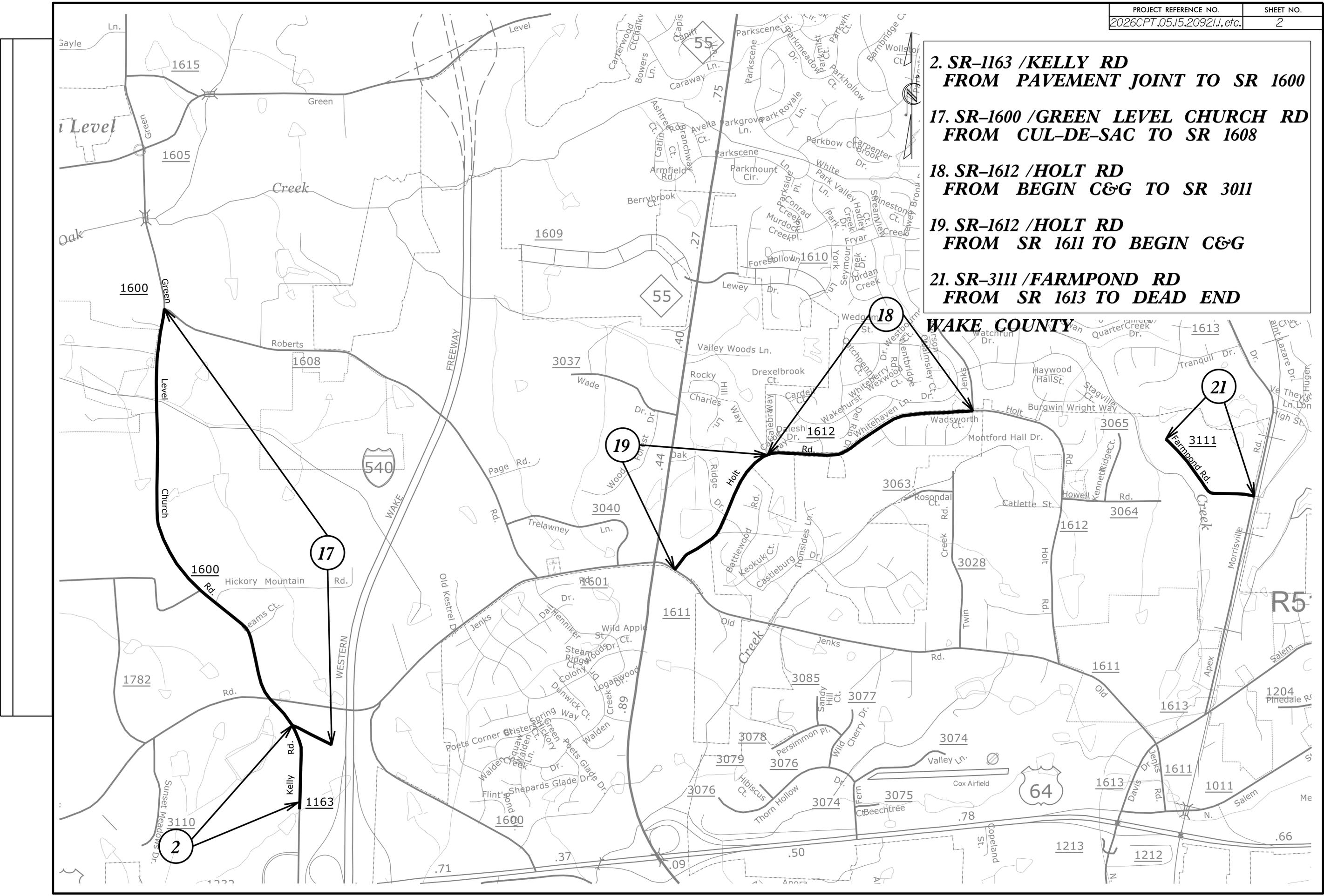


- 1. SR-1152 / HOLLY SPRINGS RD
FROM PAVEMENT JOINT TO SR 1379**
- 8. SR-1498 / DUTCHMAN DR
FROM SR 1379 TO SR 1539**
- 9. SR-1499 / HOLLANDER PL
FROM CUL-DE-SAC TO CUL-DE-SAC**
- 10. SR-1536 / BELGIUM DR
FROM END MAINT TO DEAD END**
- 11. SR-1537 / THE DYKE
FROM SR1536 TO SR 1541**
- 12. SR-1538 / THE HAGUE
FROM SR 1537 TO SR 1541**
- 13. SR-1539 / NETHERLANDS DR
FROM SR 1152 TO CUL-DE-SAC**
- 14. SR-1541 / AMSTERDAM PL
FROM SR 1537 TO DEAD END**
- 16. SR-1594 / DUTCH CREEK DR
FROM SR 1539 TO SR 1010**
- 24. SR-3965 / DUTCH HARBOR CT
FROM SR 1594 TO SR 3966**
- 25. SR-3966 / DUTCH HARBOR CT
FROM CUL-DE-SAC TO CUL-DE-SAC**
- 27. SR-4711 / DENBERG LN
FROM SR 1536 TO CUL-DE-SAC**
- 28. SR-4712 / MENDI CT
FROM SR 4711 TO CUL-DE-SAC**
- 29. SR-4720 / LOCH HIGHLANDS DR
FROM SR 1379 TO CUL-DE-SAC**
- 30. SR-4776 / BREDA CT
FROM SR 1594 TO CUL-DE-SAC**

WAKE COUNTY

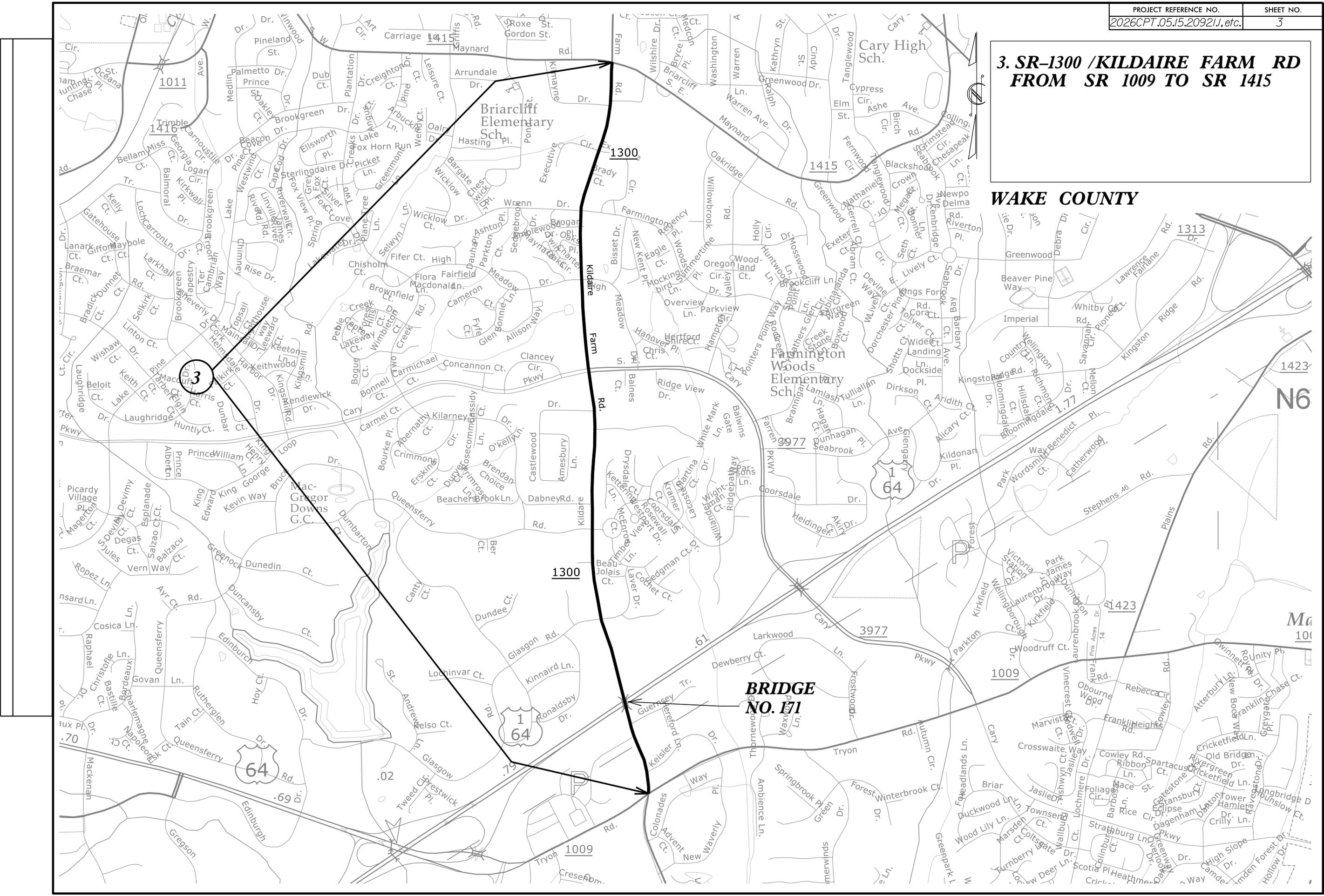
- 2. SR-1163 /KELLY RD
FROM PAVEMENT JOINT TO SR 1600**
- 17. SR-1600 /GREEN LEVEL CHURCH RD
FROM CUL-DE-SAC TO SR 1608**
- 18. SR-1612 /HOLT RD
FROM BEGIN C&G TO SR 3011**
- 19. SR-1612 /HOLT RD
FROM SR 1611 TO BEGIN C&G**
- 21. SR-3111 /FARMPOND RD
FROM SR 1613 TO DEAD END**

WAKE COUNTY



**3. SR-1300 / KILDAIRE FARM RD
FROM SR 1009 TO SR 1415**

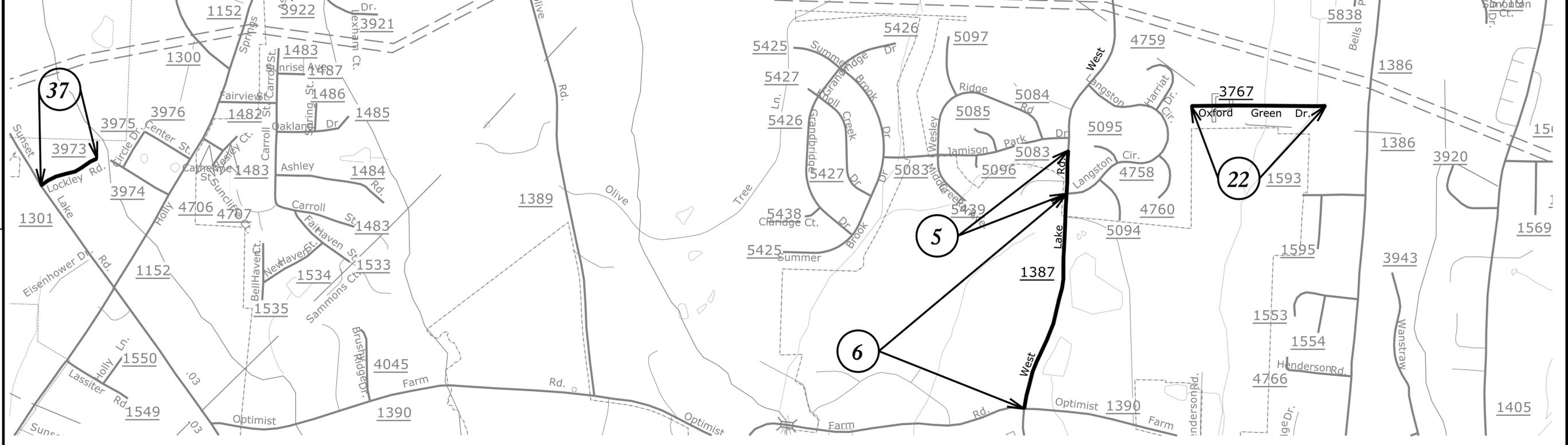
WAKE COUNTY



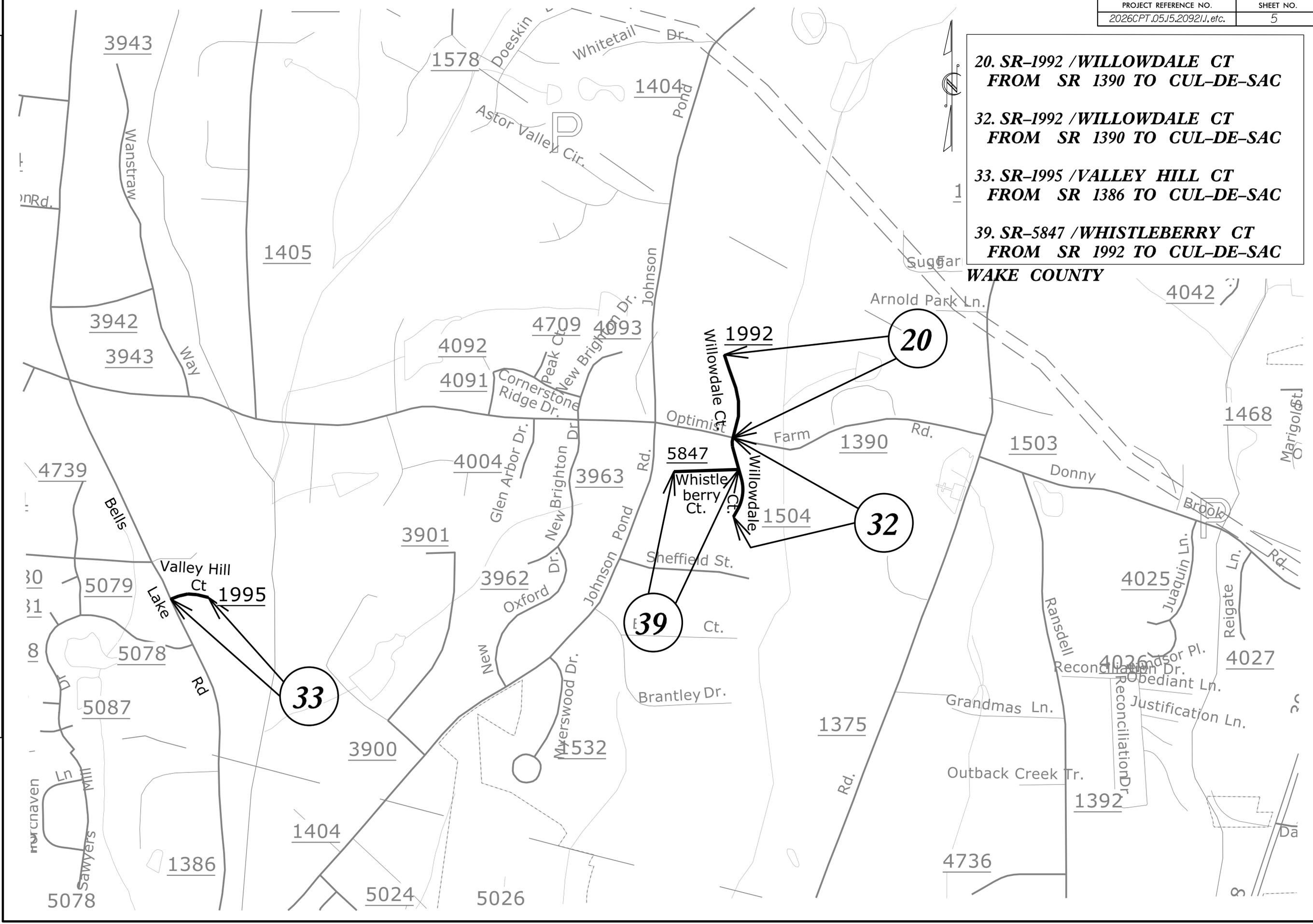
- 22. SR-3767 / OXFORD GREEN DR FROM DEAD END TO DEAD END**
- 26. SR-4040 / SOUTH POINTE DR FROM SR 1388 TO SR 5037**
- 31. SR-5037 / SUMMER OAKS DR FROM SR 1387 TO CUL-DE-SAC**
- 34. SR-3960 / VANDAM DR FROM SR 1388 TO CUL-DE-SAC**
- 35. SR-3961 / CHARLBERT CT FROM SR 3960 TO CUL-DE-SAC**
- 36. SR-3964 / SEDONA PL FROM SR 1388 TO CUL-DE-SAC**
- 37. SR-3973 / LOCKLEY RD FROM SR 1301 TO END MAINT**
- 38. SR-5833 / RUSTIC MILL DR FROM SR 1388 TO DEAD END**
- 40. SR-5849 / LAYTON RIDGE DR FROM SR 5037 TO SR 1387**

- 4. SR-1387 / WEST LAKE RD / PIERCE OLIVE RD FROM SR 1010 TO PVMNT JOINT**
- 5. SR-1387 / WEST LAKE RD FROM PAVEMENT JOINT TO BEGIN CURB & GUTTER**
- 6. SR-1387 / WEST LAKE RD FROM BEGIN C&G TO SR 1390**
- 7. SR-1388 / LAWDRAKER RD FROM SR 1010 TO DEAD END**
- 15. SR-1544 / BRENTLY DR FROM SR 1388 TO SR 1010**

WAKE COUNTY

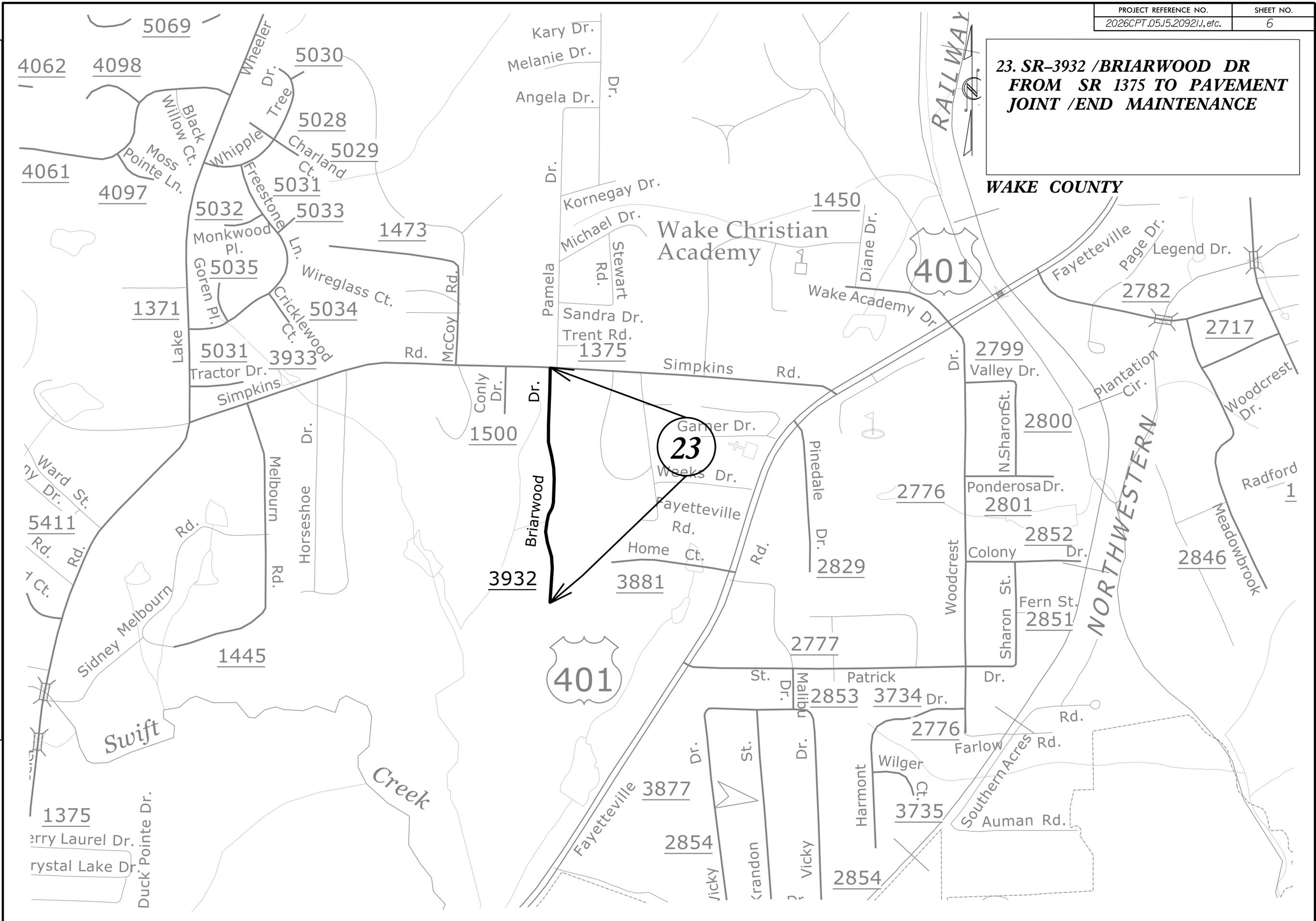


- 20. SR-1992 / WILLOWDALE CT
FROM SR 1390 TO CUL-DE-SAC**
 - 32. SR-1992 / WILLOWDALE CT
FROM SR 1390 TO CUL-DE-SAC**
 - 33. SR-1995 / VALLEY HILL CT
FROM SR 1386 TO CUL-DE-SAC**
 - 39. SR-5847 / WHISTLEBERRY CT
FROM SR 1992 TO CUL-DE-SAC**
- WAKE COUNTY**

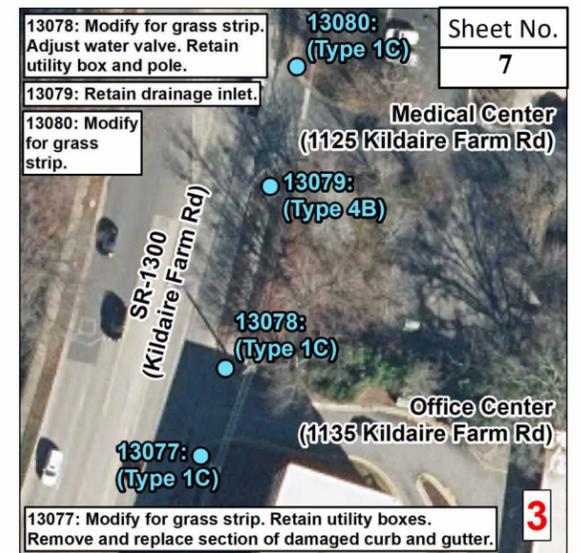
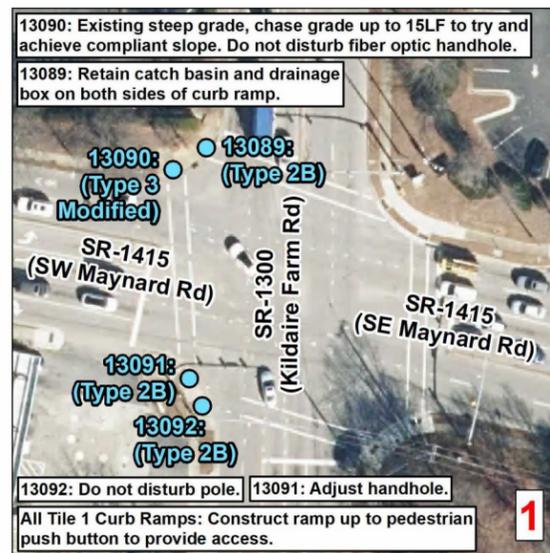
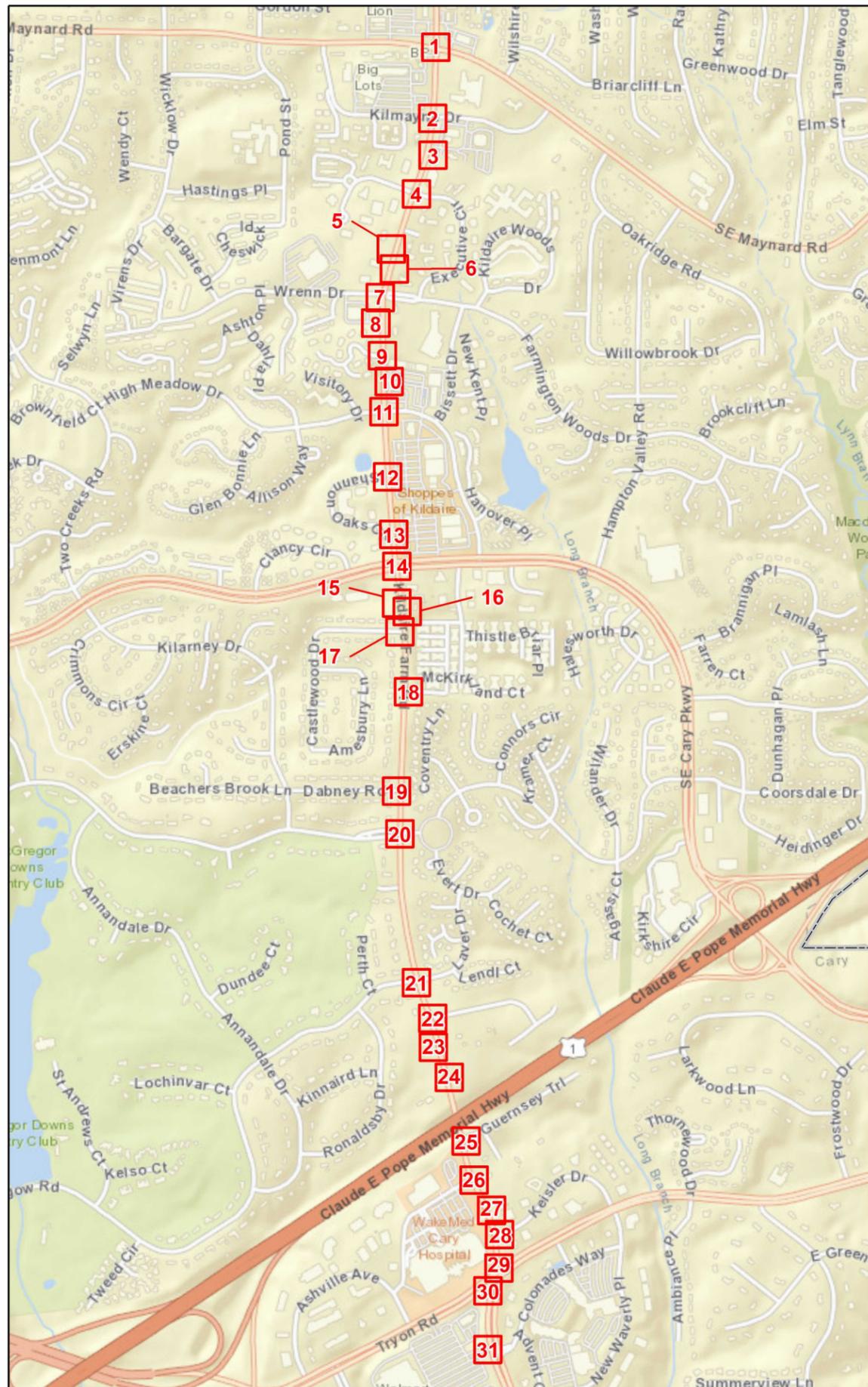


**23. SR-3932 /BRIARWOOD DR
FROM SR 1375 TO PAVEMENT
JOINT /END MAINTENANCE**

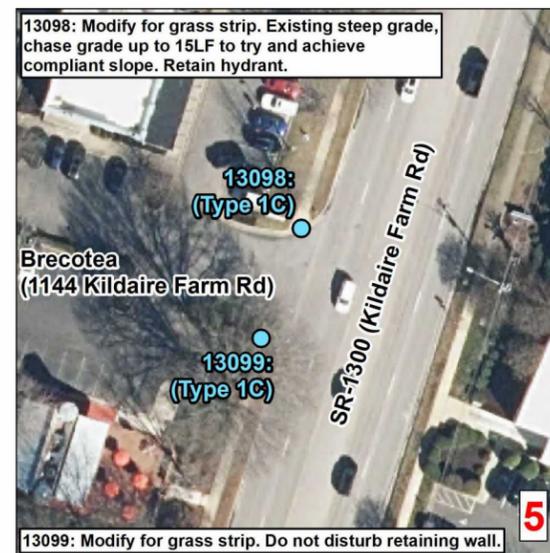
WAKE COUNTY



NORTHWESTERN



Sheet No. 7



Curb Ramps To Be Repaired

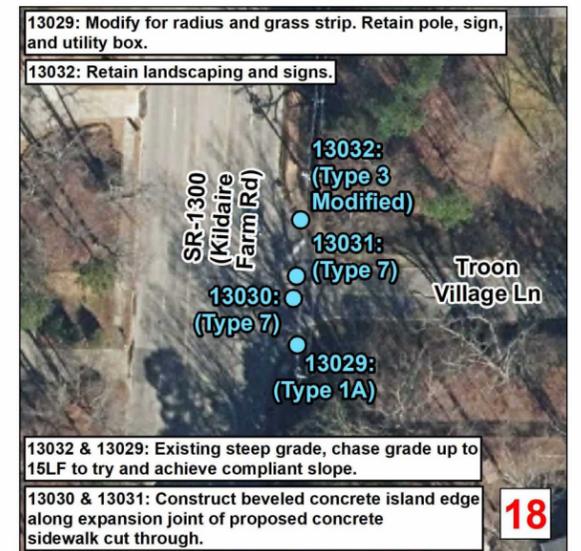
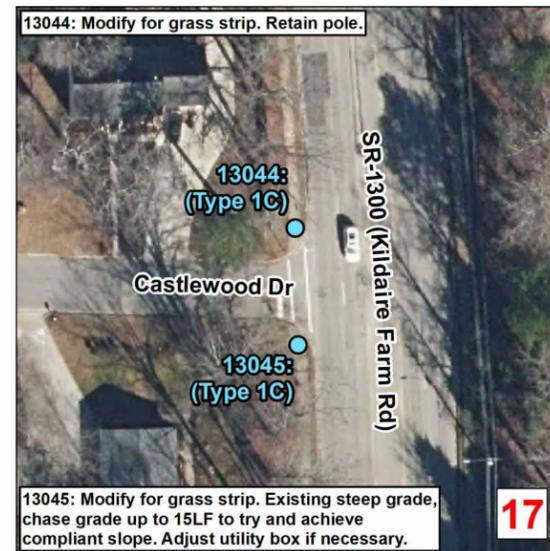
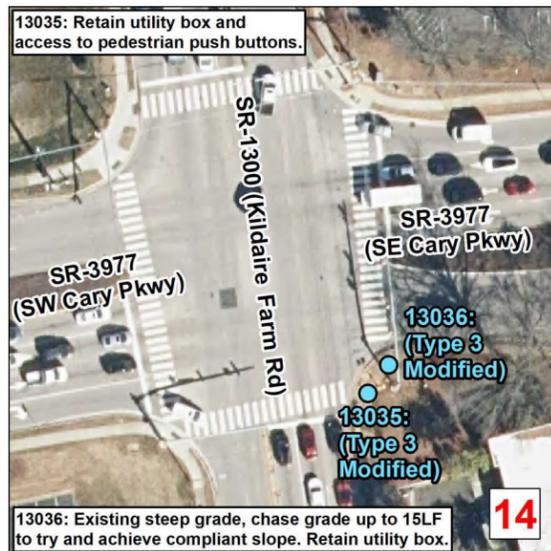
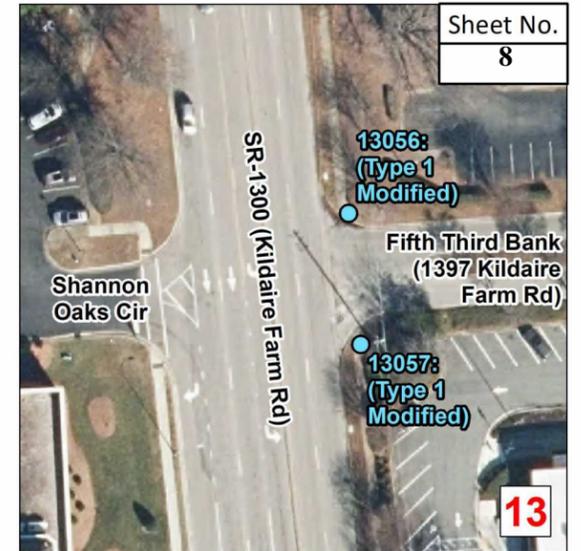
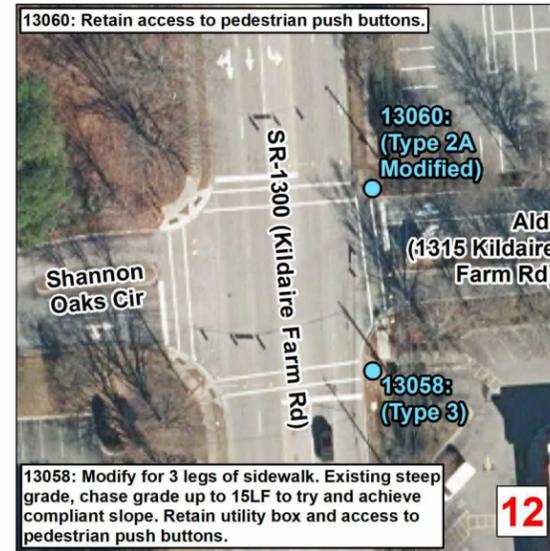
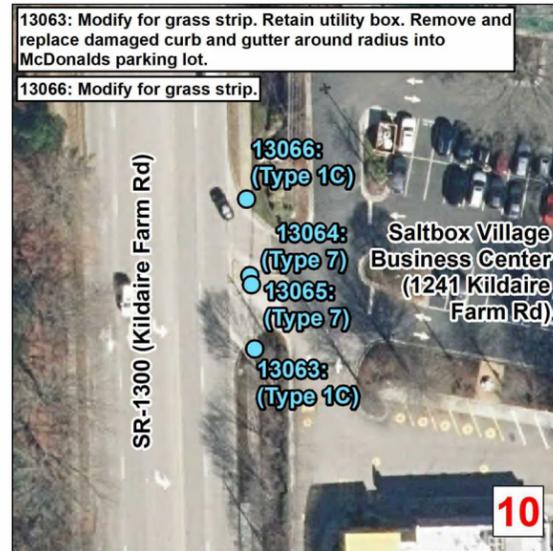
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

□ Municipal Boundary
 □ NCHPO Historic Boundary (NR and LHD)

Wake W
WBS Number: 2026CPT.05.15.20921.1
Kildaire Farm Rd
From SR 1009 To SR 1415

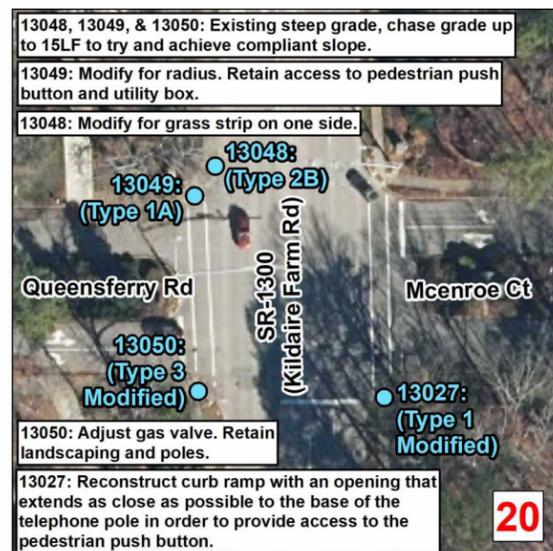
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



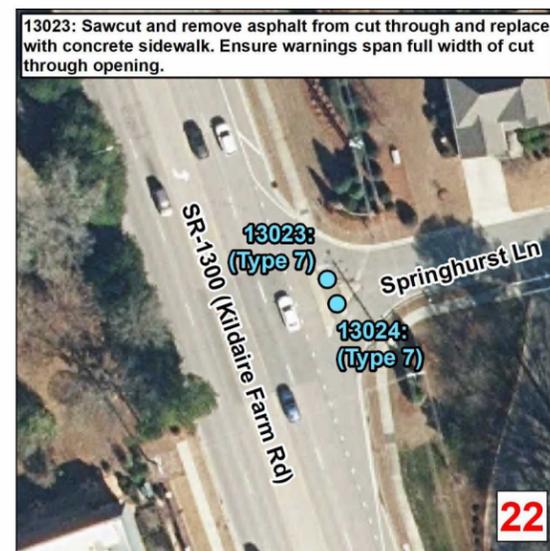
13032 & 13029: Existing steep grade, chase grade up to 15LF to try and achieve compliant slope.

13030 & 13031: Construct beveled concrete island edge along expansion joint of proposed concrete sidewalk cut through.



13050: Adjust gas valve. Retain landscaping and poles.

13027: Reconstruct curb ramp with an opening that extends as close as possible to the base of the telephone pole in order to provide access to the pedestrian push button.



Curb Ramps To Be Repaired

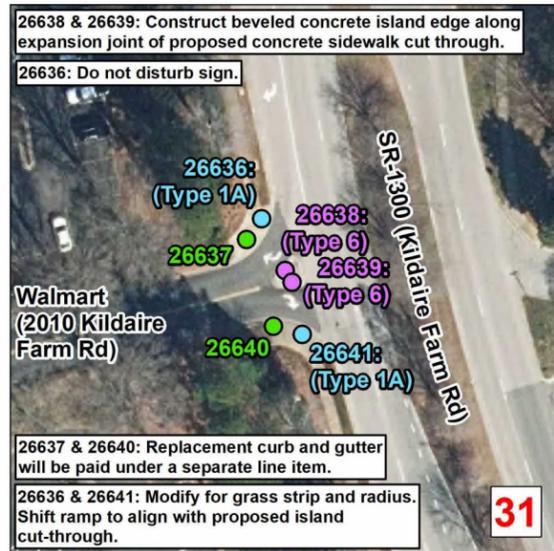
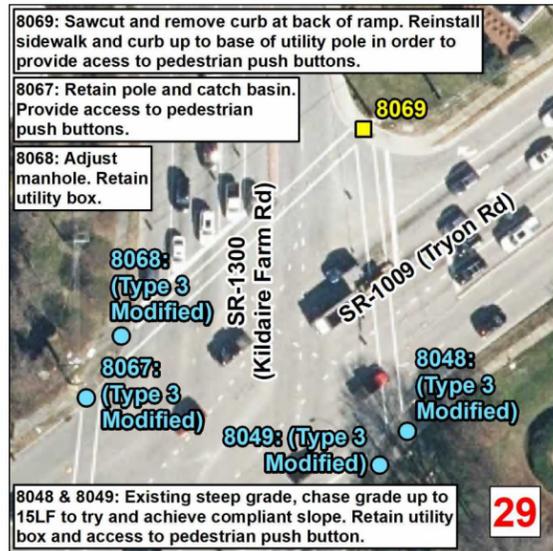
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

Wake W
WBS Number: 2026CPT.05.15.20921.1
Kildaire Farm Rd
From SR 1009 To SR 1415

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



Curb Ramps To Be Repaired

- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary

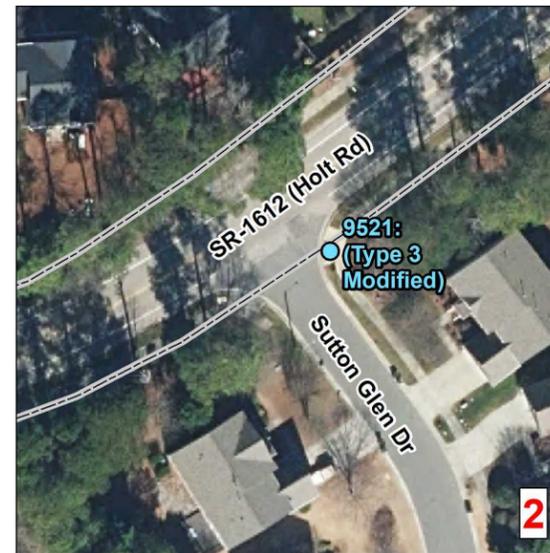
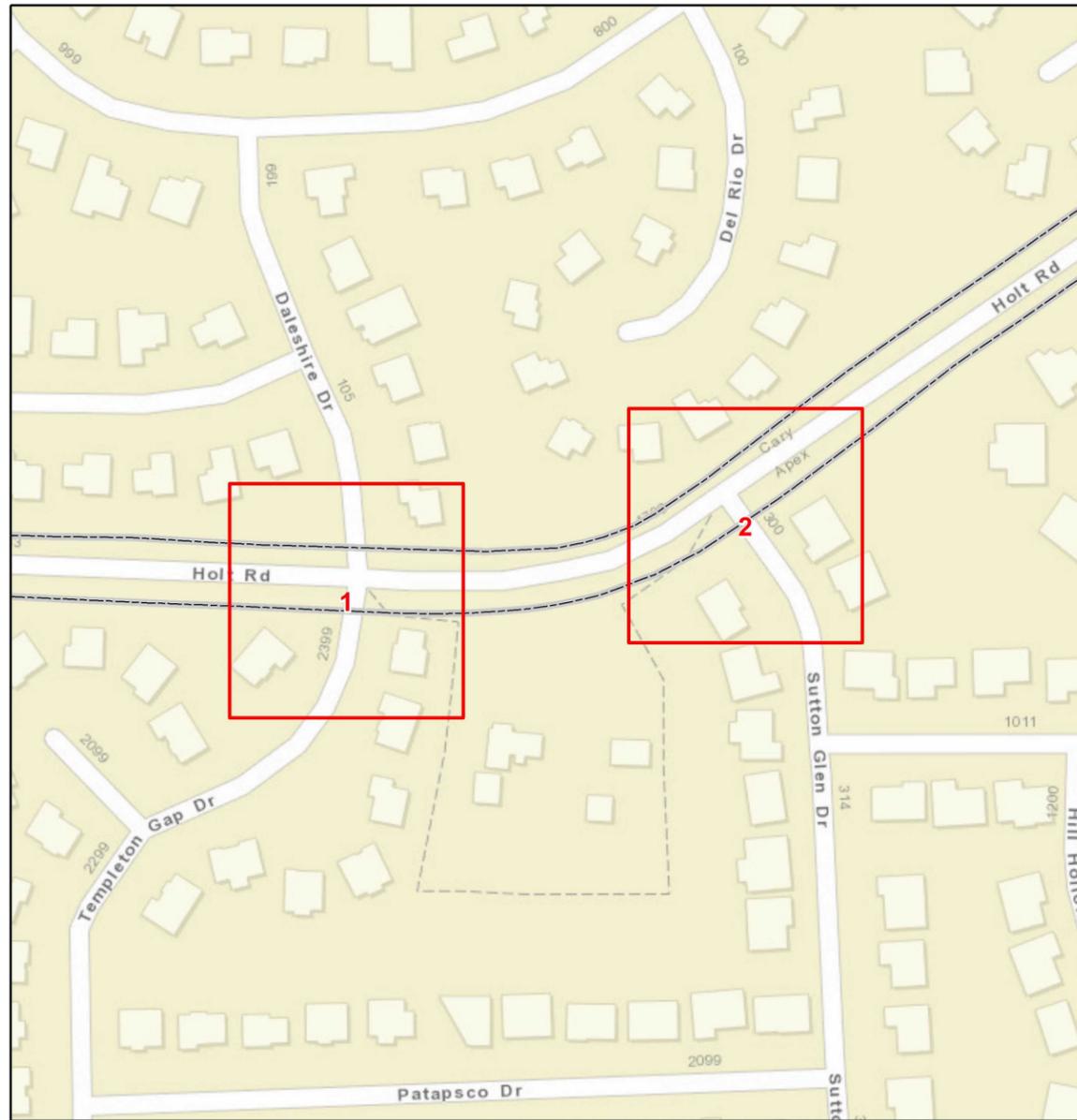
NCHPO Historic Boundary (NR and LHD)

Wake W
WBS Number: 2026CPT.05.15.20921.1

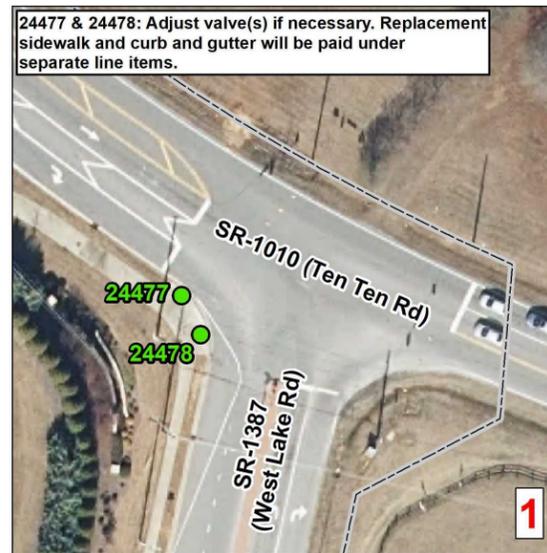
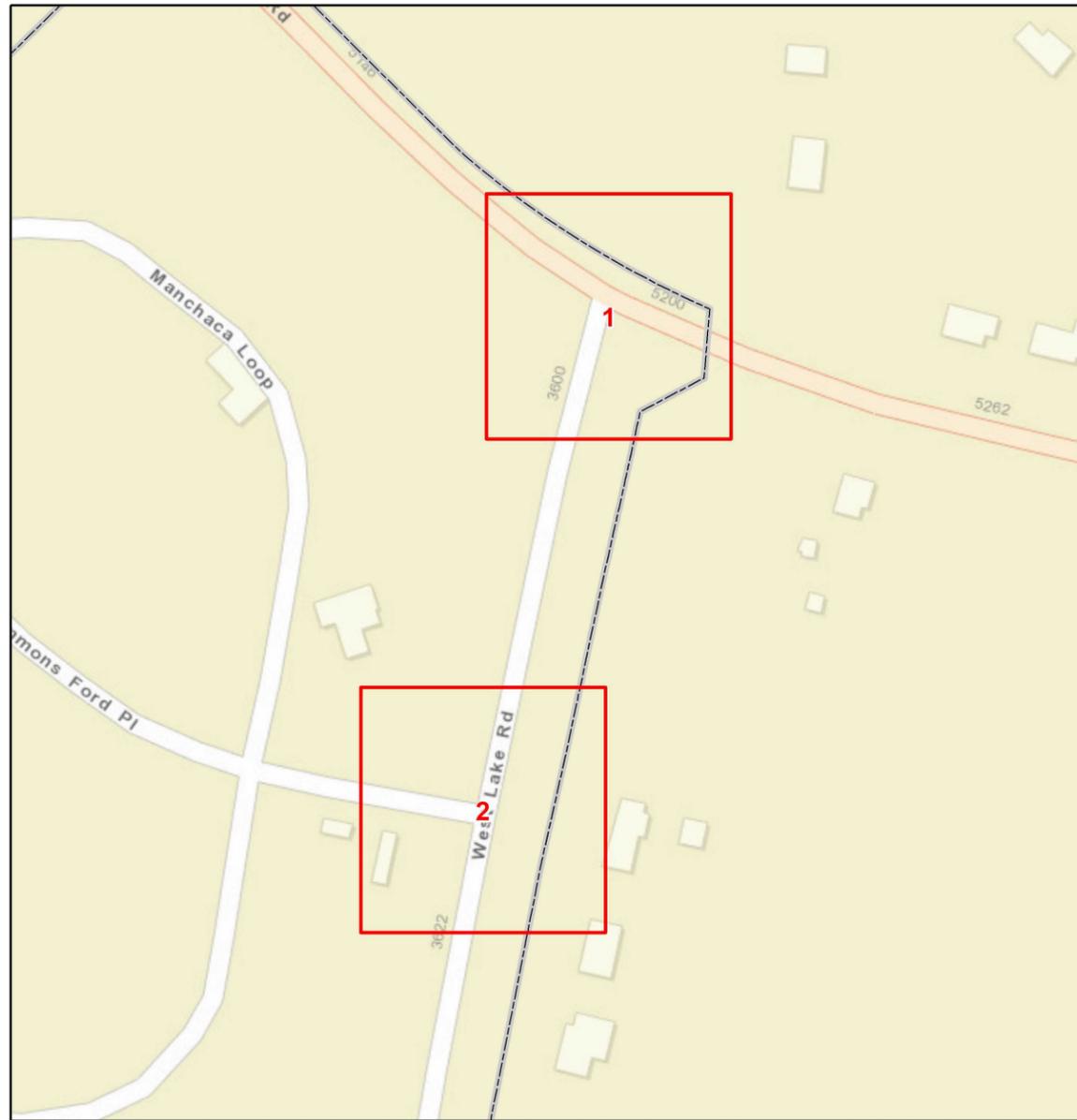
Kildaire Farm Rd
From SR 1009 To SR 1415

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

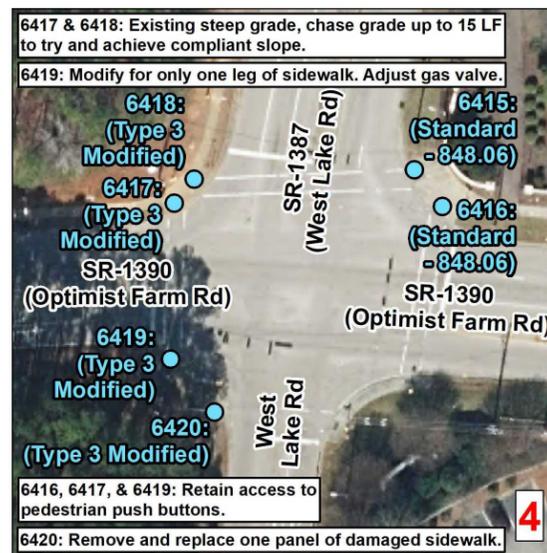
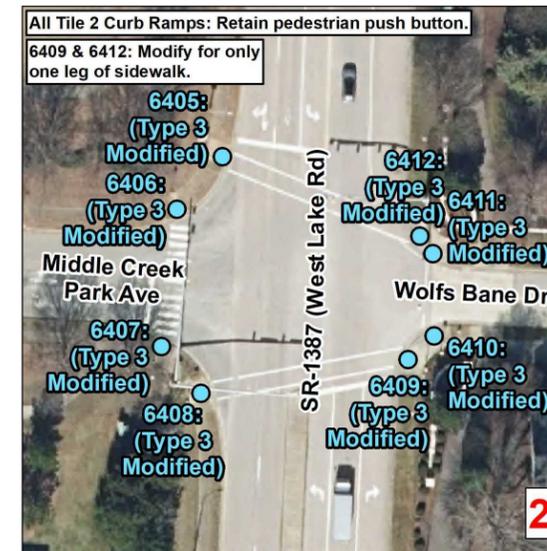
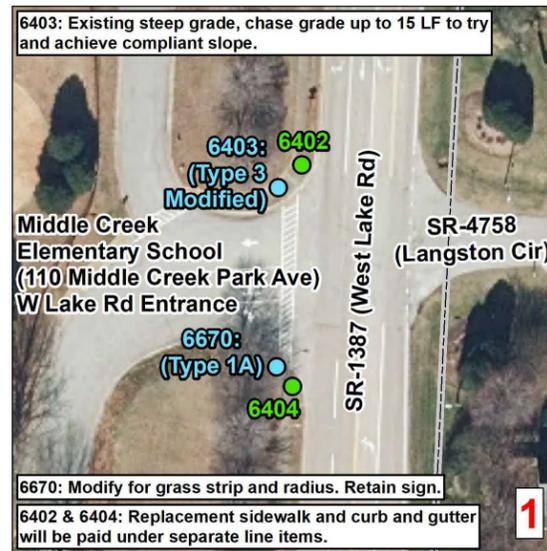
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



Curb Ramps To Be Repaired		
<ul style="list-style-type: none"> ● Retrofit ● Remove and Replace ● New Curb Ramp ● Remove Ramp ■ Other 	<ul style="list-style-type: none">  Municipal Boundary  NCHPO Historic Boundary (NR and LHD) 	
<p>Wake W WBS Number: 2026CPT.05.15.20921.1 Holt Rd From Begin C&G To SR 3011</p>		
		<p>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5</p>
<p>Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO</p>		



<p>Curb Ramps To Be Repaired</p> <ul style="list-style-type: none"> ● Retrofit ● Remove and Replace ● New Curb Ramp ● Remove Ramp ■ Other 		
<ul style="list-style-type: none"> Municipal Boundary NCHPO Historic Boundary (NR and LHD) 		
<p>Wake W WBS Number: 2026CPT.05.15.20921.1 West Lake Rd From SR 1010 To Pavement Joint</p>		
		<p>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5</p>
<p>Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO</p>		



Curb Ramps To Be Repaired

- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

Wake W
WBS Number: 2026CPT.05.15.20921.1
West Lake Rd
From Begin C&G To SR 1390

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO

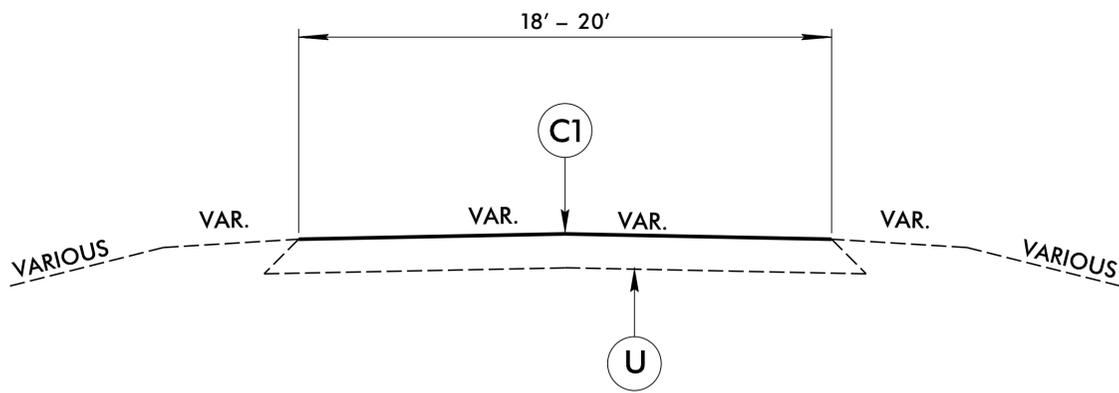


Curb Ramps To Be Repaired	
Retrofit	
Remove and Replace	
New Curb Ramp	
Remove Ramp	
Other	
Municipal Boundary	
NCHPO Historic Boundary (NR and LHD)	
Wake W	
WBS Number: 2026CPT.05.15.20921.1	
Green Level Church Rd	
From Cul-de-sac To SR 1608	
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO	

8/17/99

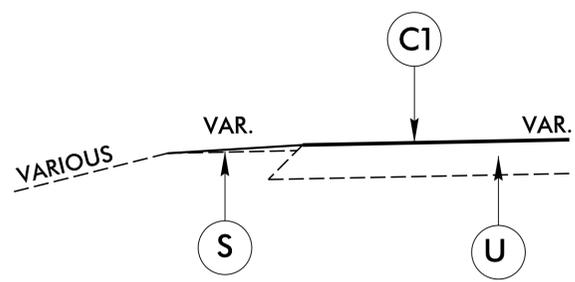
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1 1/2"
V2	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1"
V3	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1 1/4"
V4	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1 1/2"
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.15.2092(I), etc.	14



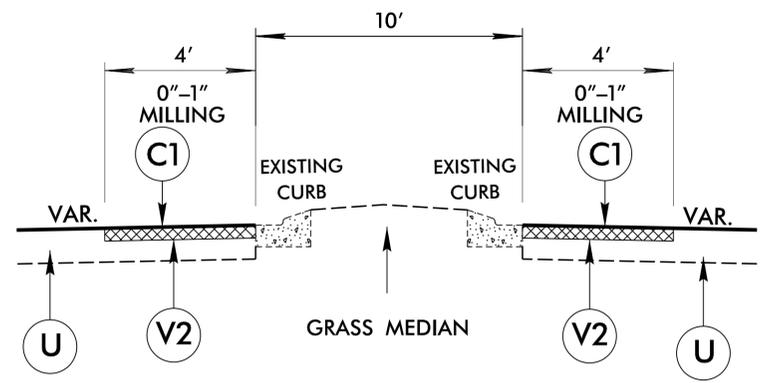
TYPICAL SECTION NO. 1

- MAP 31 - SR-5037 /SUMMER OAKS DR
- MAP 32 - SR-1992 /WILLOWDALE CT
- MAP 34 - SR-3960 /VANDAM DR
- MAP 35 - SR-3961 /CHARLBERT CT
- MAP 36 - SR-3964 /SEDONA PL
- MAP 37 - SR-3973 /LOCKLEY RD
- MAP 38 - SR-5833 /RUSTIC MILL DR
- MAP 39 - SR-5847 /WHISTLEBERRY CT
- MAP 40 - SR-5849 /LAYTON RIDGE DR



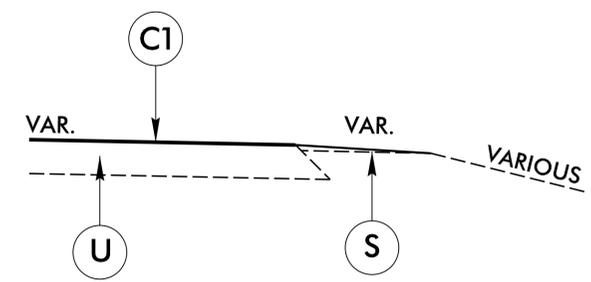
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1

MAP 37 - SR-3973 /LOCKLEY RD



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1

MAP 34 - SR-3960 /VANDAM DR
CURB AND GUTTER SECTION - 52' +/-



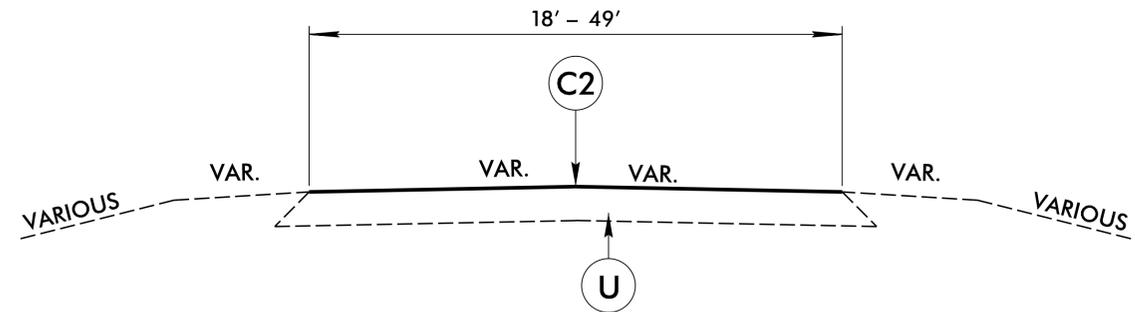
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1

MAP 37 - SR-3973 /LOCKLEY RD

8/17/99

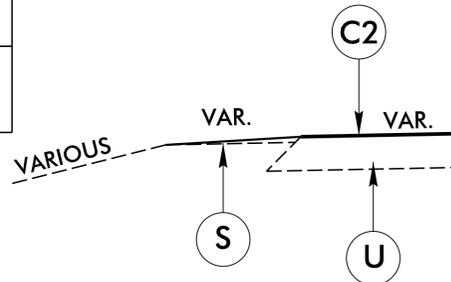
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1 1/2"
V2	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1"
V3	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1 1/4"
V4	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1 1/2"
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.15.2092JJ, etc.	15



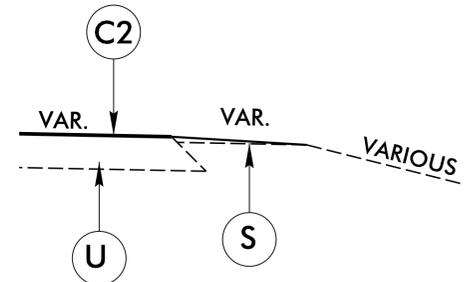
TYPICAL SECTION NO. 2

- MAP 8 - SR-1498 /DUTCHMAN DR
- MAP 9 - SR-1499 /HOLLANDER PL
- MAP 10 - SR-1536 /BELGIUM DR
- MAP 11 - SR-1537 /THE DYKE
- MAP 12 - SR-1538 /THE HAGUE
- MAP 14 - SR-1541 /AMSTERDAM PL
- MAP 16 - SR-1594 /DUTCH CREEK DR
- MAP 20 - SR-1992 /WILLOWDALE CT/
- MAP 24 - SR-3965 /DUTCH HARBOR CT
- MAP 25 - SR-3966 /DUTCH HARBOR CT
- MAP 26 - SR-4040 /SOUTH POINTE DR
- MAP 27 - SR-4711 /DENBERG LN
- MAP 28 - SR-4712 /MENDI CT
- MAP 29 - SR-4720 /LOCH HIGHLANDS DR
- MAP 30 - SR-4776 /BREDA CT
- MAP 33 - SR-1995 /VALLEY HILL CT



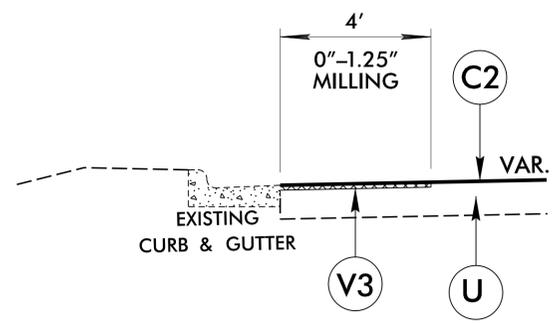
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2

- MAP 7 - SR-1388 /LAWDRAKER RD
- MAP 13 - SR-1539 /NETHERLANDS DR
- MAP 15 - SR-1544 /BRENTLY DR



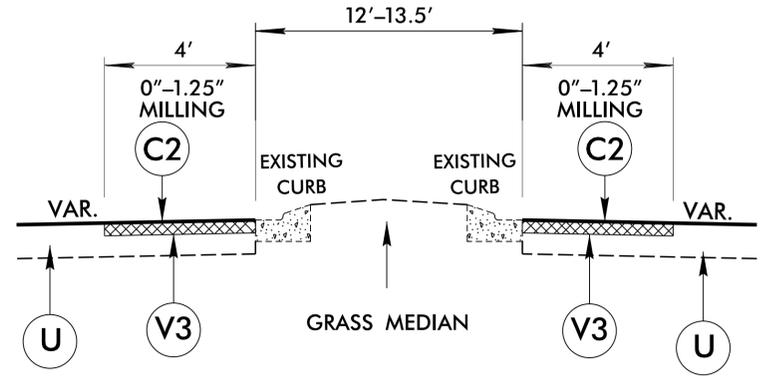
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2

- MAP 7 - SR-1388 /LAWDRAKER RD
- MAP 13 - SR-1539 /NETHERLANDS DR
- MAP 15 - SR-1544 /BRENTLY DR



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2

- MAP 7 - SR-1388 /LAWDRAKER RD
- CURB AND GUTTER SECTION - 625' +/-

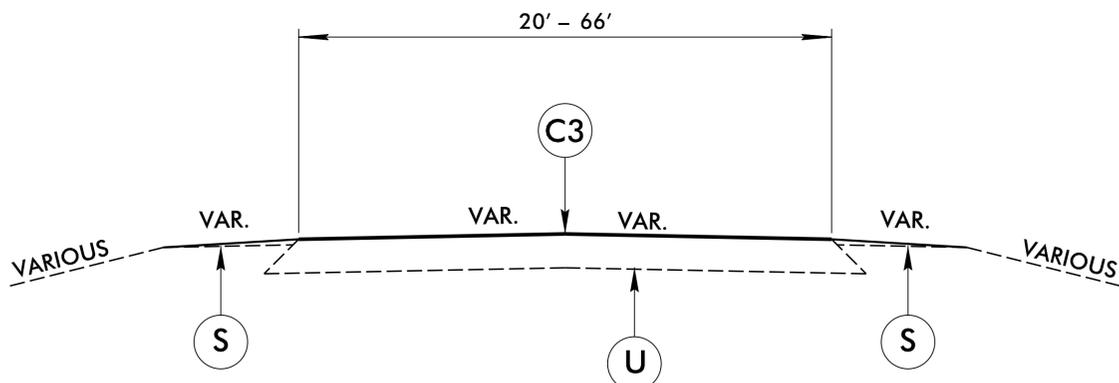


USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2

- MAP 29 - SR-4720 /LOCH HIGHLANDS DR
- CURB AND GUTTER SECTION - 60' +/-

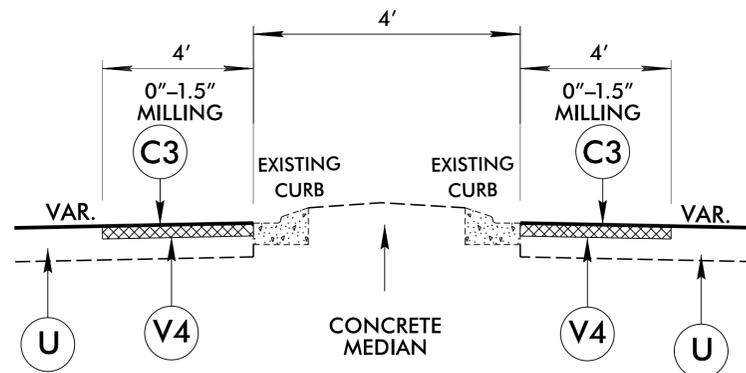
8/17/99

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C4	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1"
V3	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1¼"
V4	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1½"
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT



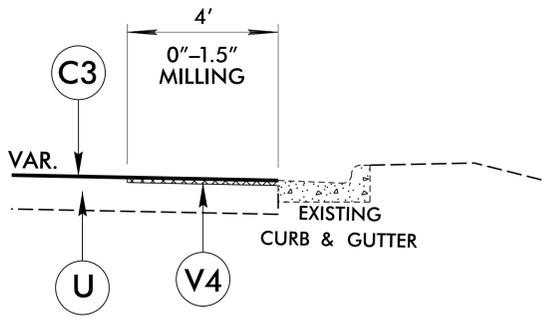
TYPICAL SECTION NO. 3

- MAP 1 – SR-1152 /HOLLY SPRINGS RD
- MAP 2 – SR-1163 /KELLY RD
- MAP 4 – SR-1387 /WEST LAKE RD/PIERCE OLIVE RD
- MAP 5 – SR-1387 /WEST LAKE RD
- MAP 17 – SR-1600 /GREEN LEVEL CHURCH RD
- MAP 19 – SR-1612 /HOLT RD
- MAP 21 – SR-3111 /FARMPOND RD
- MAP 22 – SR-3767 /OXFORD GREEN DR



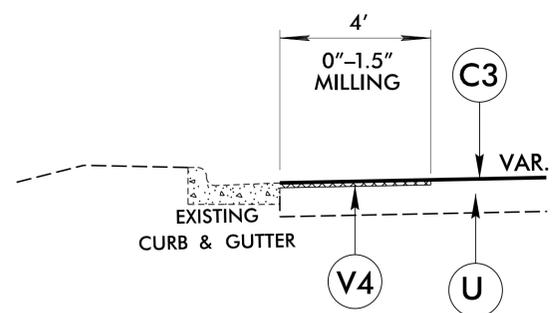
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 3

- MAP 4 – SR-1387 /WEST LAKE RD/PIERCE OLIVE RD
CURB AND GUTTER SECTION – 886' +/-
- MAP 17 – SR-1600 /GREEN LEVEL CHURCH RD
CURB AND GUTTER SECTION – 720' +/-



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 3

- MAP 17 – SR-1600 /GREEN LEVEL CHURCH RD
CURB AND GUTTER SECTION – 1017' +/-
- MAP 19 – SR-1612 /HOLT RD
CURB AND GUTTER SECTION – 915' +/-
- MAP 21 – SR-3111 /FARMPOND RD
CURB AND GUTTER SECTION – 320' +/-



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 3

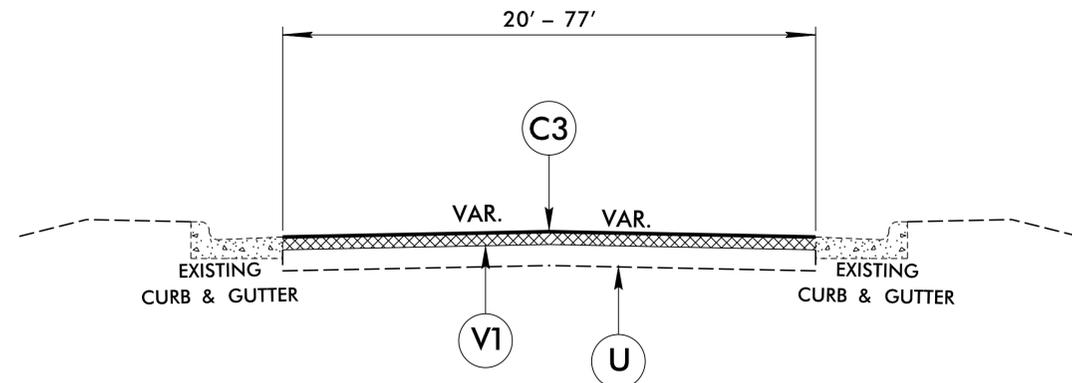
- MAP 1 – SR-1152 /HOLLY SPRINGS RD
CURB AND GUTTER SECTION – 1,147' +/-
- MAP 4 – SR-1387 /WEST LAKE RD/PIERCE OLIVE RD
CURB AND GUTTER SECTION – 1,005' +/-
- MAP 17 – SR-1600 /GREEN LEVEL CHURCH RD
CURB AND GUTTER SECTION – 519' +/-

NOTE:
MILL 1½" ON MAP 1, BRIDGE NO. 289 AS DIRECTED BY THE ENGINEER TO RESURFACE AND NOT ADD ANY ADDITIONAL WEIGHT ON THE BRIDGE. TO BE PAID FOR AS INCIDENTAL MILLING.

8/17/99

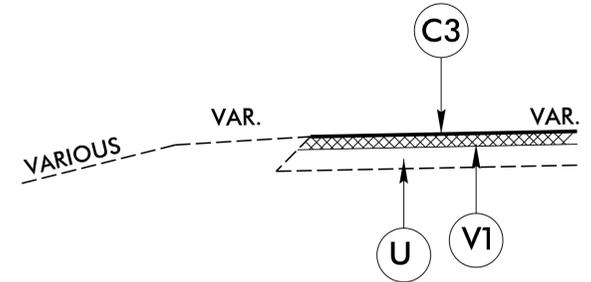
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C4	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1"
V3	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1¼"
V4	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1½"
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.15.2092(I), etc.	17



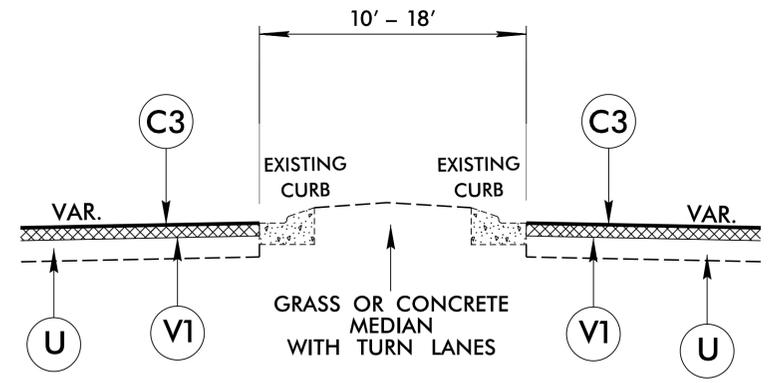
TYPICAL SECTION NO. 4

MAP 6 - SR-1387 /WEST LAKE RD
 MAP 18 - SR-1612 /HOLT RD
 MAP 23 - SR-3932 /BRIARWOOD DR



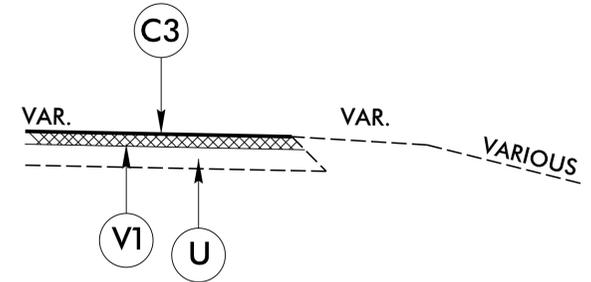
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 4

MAP 6 - SR-1387 /WEST LAKE RD - 473' +/-
 MAP 23 - SR-3932 /BRIARWOOD DR - 48' +/-



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 4

MAP 6 - SR-1387 /WEST LAKE RD
 CURB AND GUTTER SECTION - 2,134' +/-

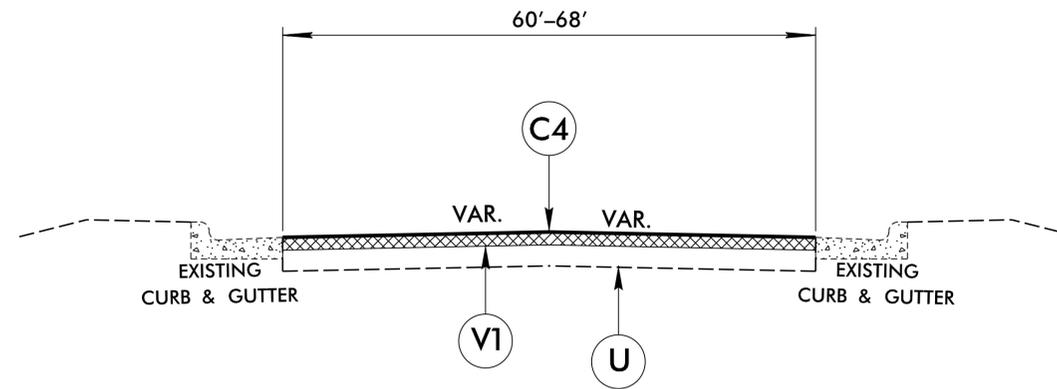


USE IN CONJUNCTION WITH TYPICAL SECTION NO. 4

MAP 18 - SR-1612 /HOLT RD - 146' +/-
 MAP 23 - SR-3932 /BRIARWOOD DR - 52' +/-

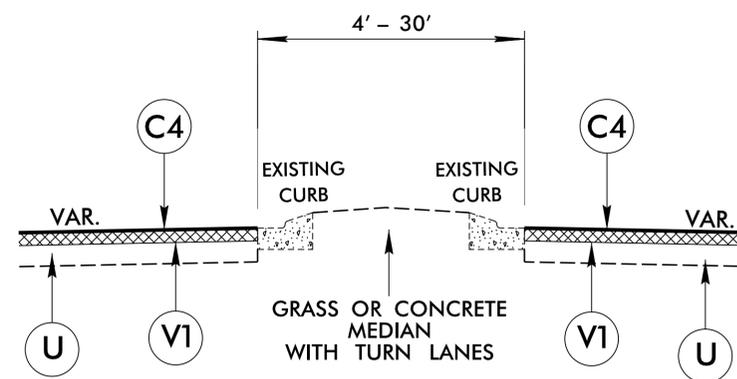
8/17/99

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C4	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1"
V3	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1¼"
V4	MILLING OF EXISTING ASPHALT PAVEMENT, 0" TO 1½"
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT



TYPICAL SECTION NO. 5

MAP 3 - SR-1300 /KILDAIRE FARM RD

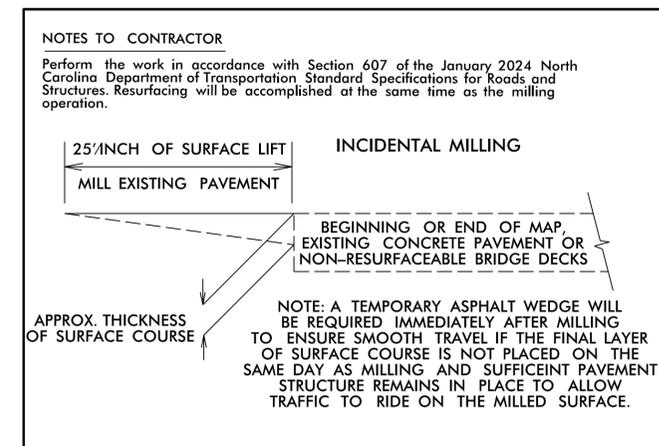
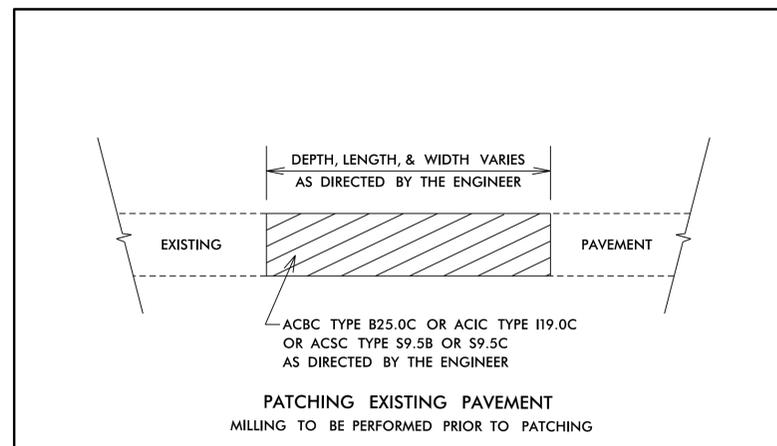


USE IN CONJUNCTION WITH TYPICAL SECTION NO. 5

MAP 3 - SR-1300 /KILDAIRE FARM RD
CURB AND GUTTER SECTION - 1573' +/-

NOTES

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

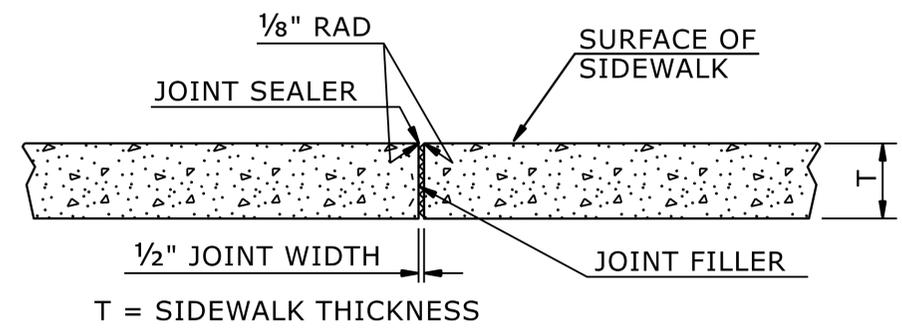


NOTES:

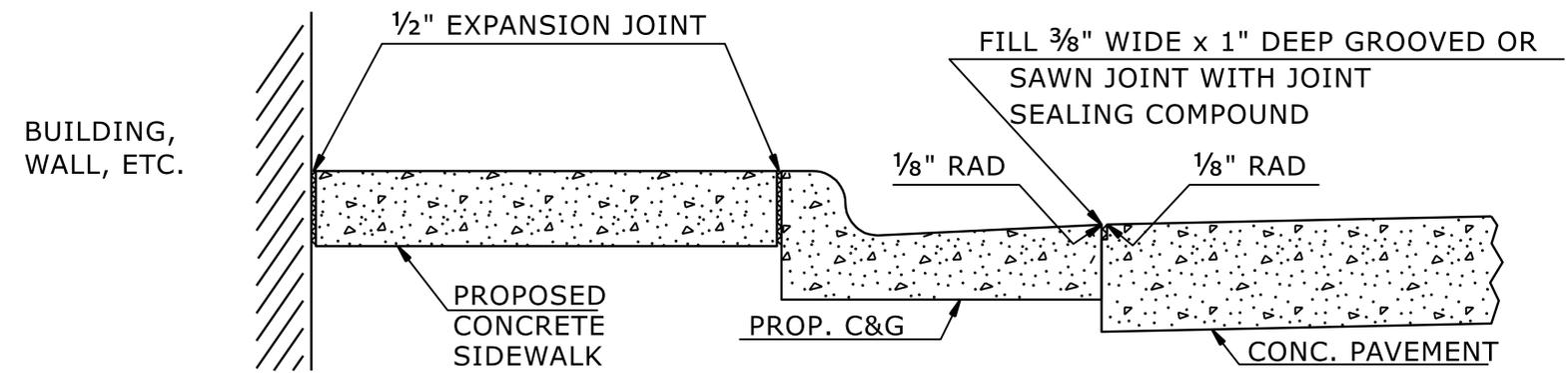
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

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

ROADWAY DETAIL DRAWING FOR
CONCRETE SIDEWALK



SHEET 1 OF 1
848D01

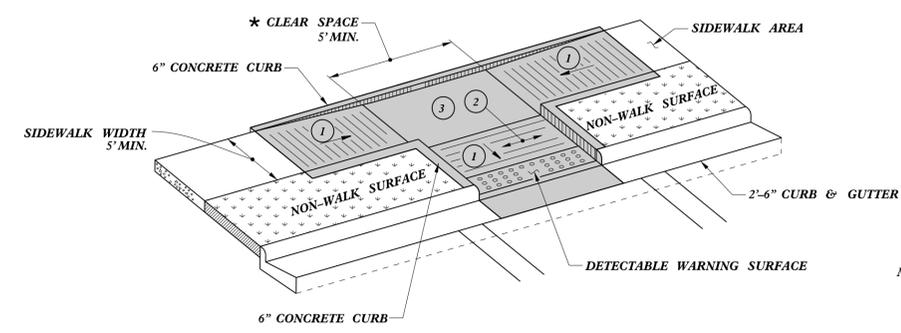
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

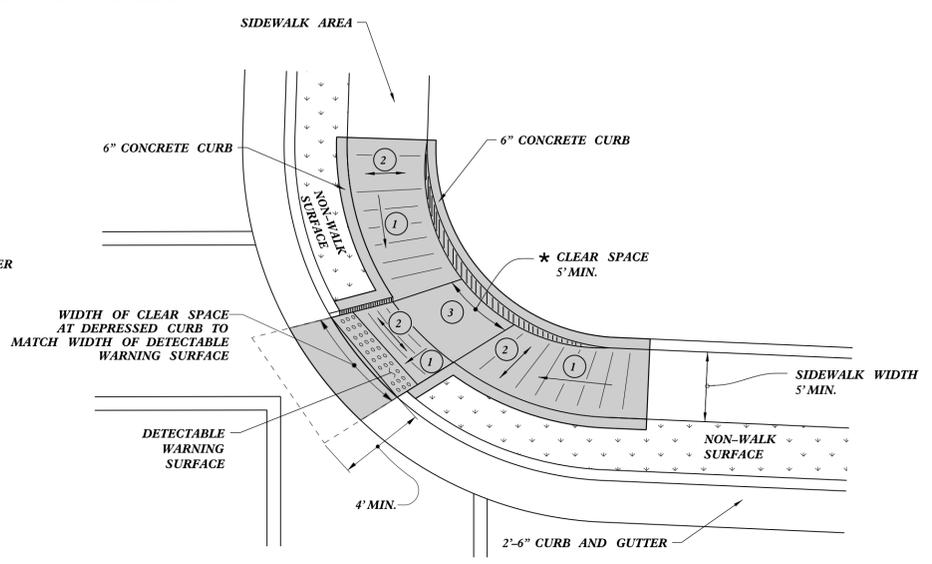
SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN	DATE: 7-25-2024
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	

* - 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.

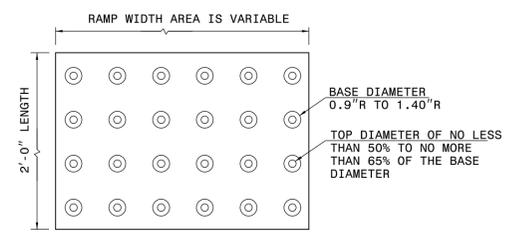


TYPE 3

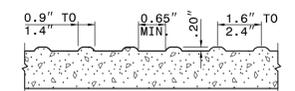


**TYPE 3 MODIFIED
INSTALLATION IN A RADIUS**

NOTES:
 1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. 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 STANDARD DRAWING FOR
CURB RAMP
 PARALLEL RAMP
 SHEET 9 OF 13
848D06

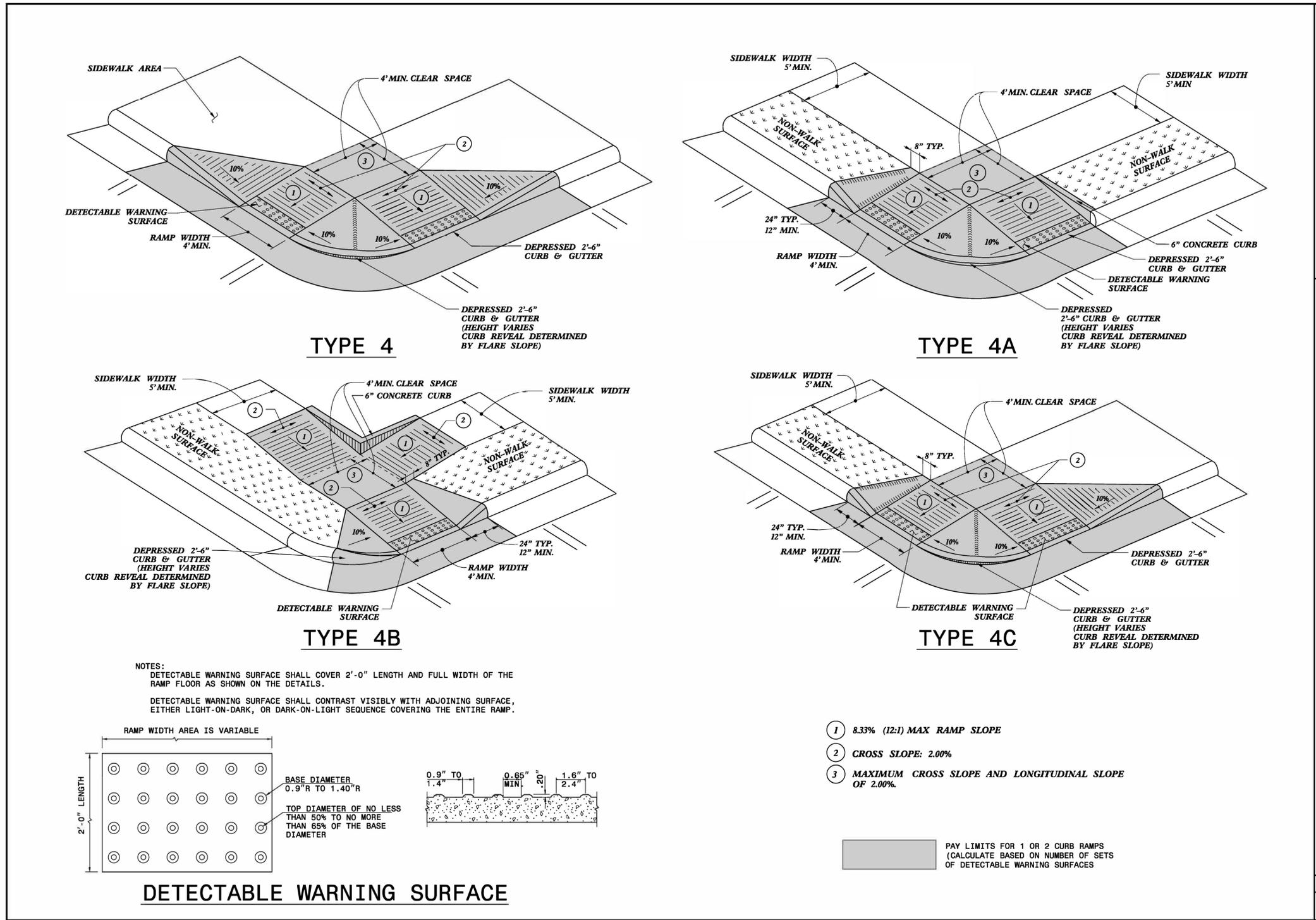


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**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\0609.dgn



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

ROADWAY STANDARD DRAWING FOR
CURB RAMP
SHARED LANDING

SHEET 10 OF 13
848D06



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

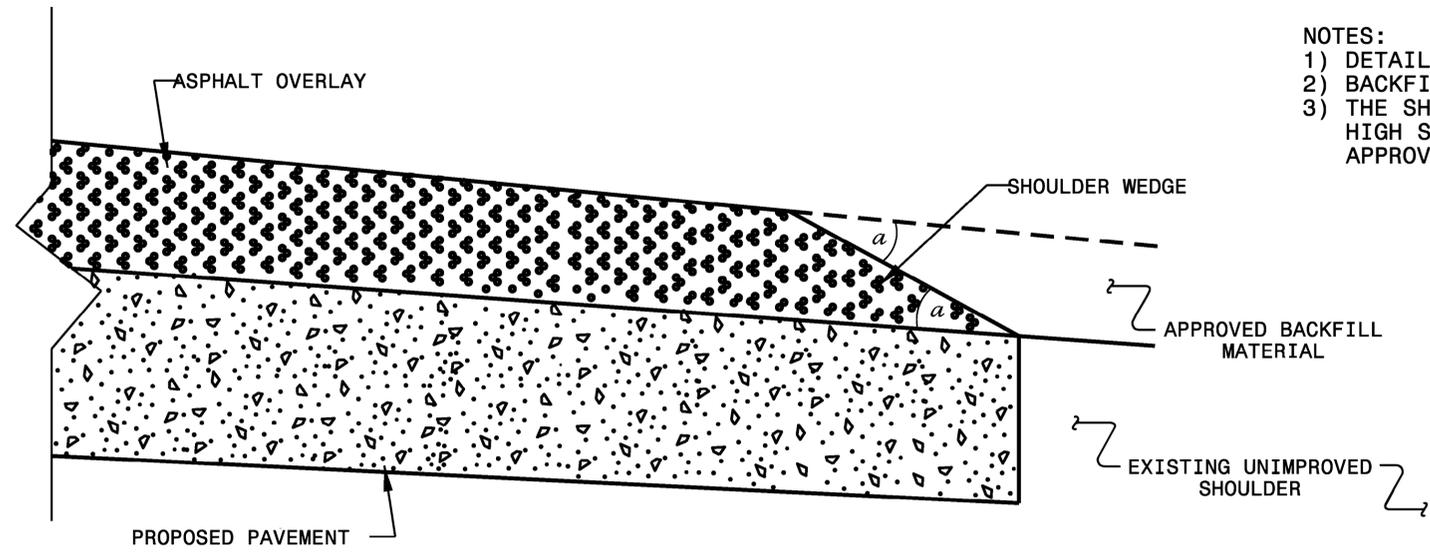
CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

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

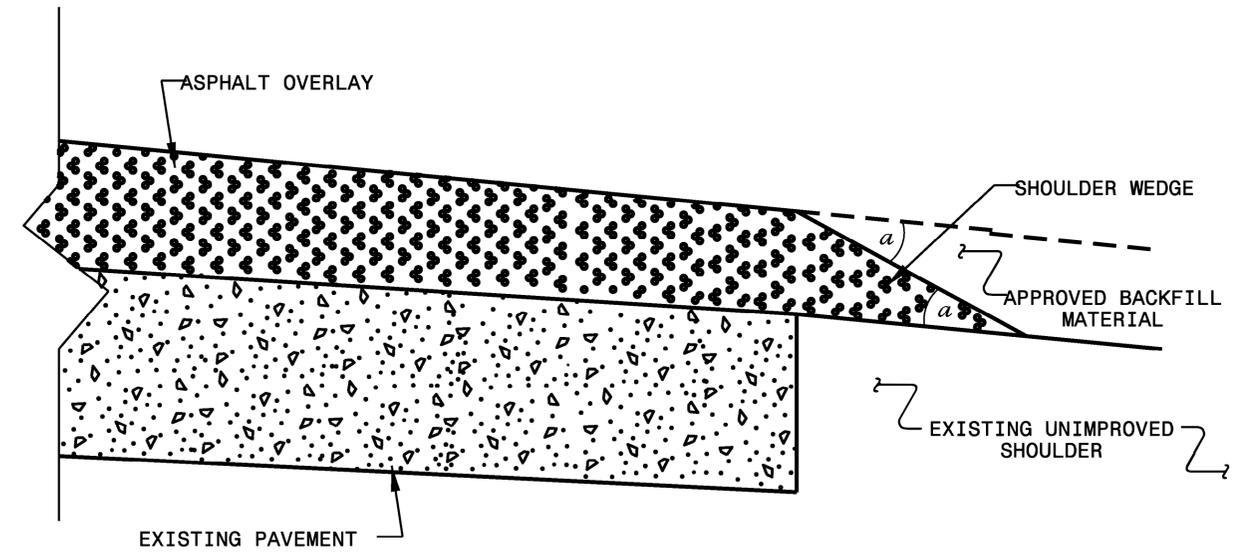
NOTES:

- 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.



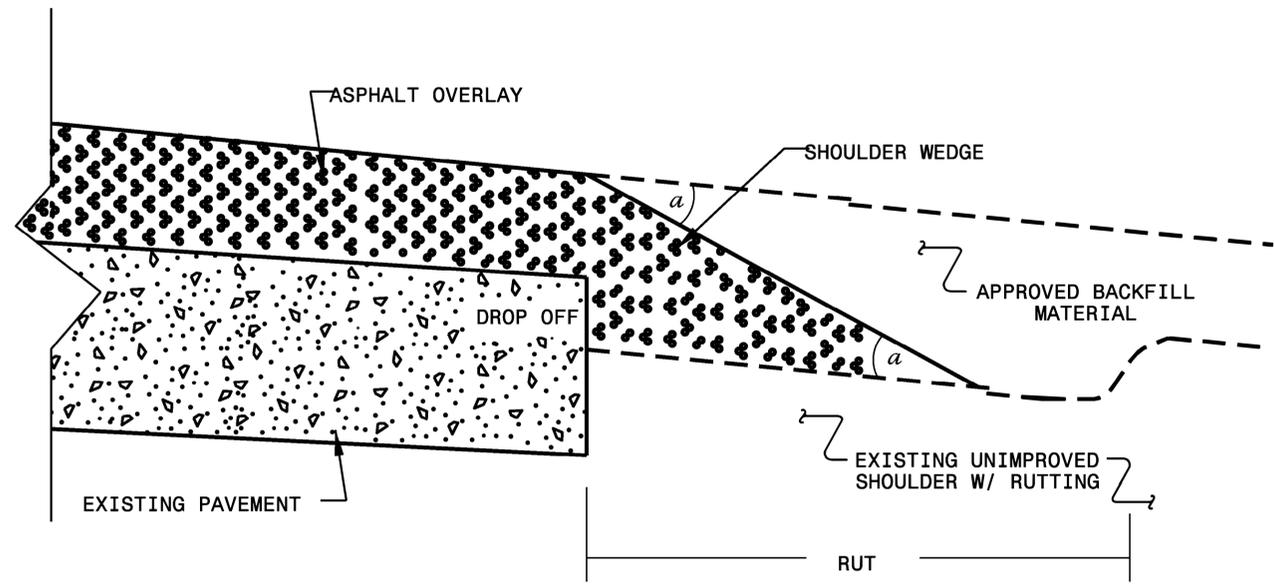
SHOULDER WEDGE DETAIL

(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: 2-19-11
MODIFIED BY:	DATE: 2/2/16
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn	

22-JAN-2018 09:41
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 Paper: 21 000 212512

ADA SUMMARY OF QUANTITIES - TOTALS

WBS Number:	2026CPT.05.15.20921.1
County:	Wake

Sheet No.	25
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WBS Number	County	Municipality	Resurfacing Route	4447000000-E (LF) Pedestrian Channelizing Devices	4600000000-N (EA) Generic Traffic Control Item - Pedestrian Transport Service (Per Trip)	4600000000-N (EA) Generic Traffic Control Item - Audible Warning Devices	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"x6" Concrete Curb	2752000000-E (LF) Remove And Replace 1'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2655000000-E (SY) 5" Monolithic Concrete Island (Keyed In)	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps			
2026CPT.05.15.20921.1	Wake	Cary	Kildaire Farm Rd From SR 1009 To SR 1415	120	20	8	63	84	12	2	262	10	56	93	25	1	3	26	37	77	2	5			
2026CPT.05.15.20921.1	Wake	Apex	Holt Rd From Begin C&G To SR 3011				0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	3	0	0
2026CPT.05.15.20921.1	Wake	Cary	West Lake Rd From SR 1010 To Pavement Joint				0	40	0	0	0	12	0	0	0	30	0	0	0	4	0	0	2	0	2
2026CPT.05.15.20921.1	Wake	Cary	West Lake Rd From Begin C&G To SR 1390				0	38	0	0	0	54	0	0	0	18	30	0	0	1	0	0	18	0	2
2026CPT.05.15.20921.1	Wake	Apex	Green Level Church Rd From Cul-de-sac To SR 1608				0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
GRAND TOTAL				120	20	8	63	167	12	2	337	10	104	123	25	1	8	26	37	101	2	9			

ADA SUMMARY OF QUANTITIES - KILDAIRE FARM RD FROM SR 1009 TO SR 1415

Municipality:	Cary
WBS Number:	2026CPT.05.15.20921.1
County:	Wake

Sheet No.	26
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb	2752000000-E (LF) Remove And Replace 1'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2655000000-E (SY) 5" Monolithic Concrete Island (Keyed In)	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
13089	1	SR-1300 (Kildaire Farm Rd)	SR-1415 (SE Maynard Rd)														1			Type 2B - 848.06
13090	1	SR-1300 (Kildaire Farm Rd)	SR-1415 (SE Maynard Rd)														1			Type 3 Modified - 848D0609
13091	1	SR-1300 (Kildaire Farm Rd)	SR-1415 (SE Maynard Rd)														1			Type 2B - 848.06
13092	1	SR-1300 (Kildaire Farm Rd)	SR-1415 (SE Maynard Rd)														1			Type 2B - 848.06
13081	2	SR-1300 (Kildaire Farm Rd)	Kilmayne Dr		18					8								1		Remove Ramp
13082	2	SR-1300 (Kildaire Farm Rd)	Kilmayne Dr														1			Type 3 Modified - 848D0609
13083	2	SR-1300 (Kildaire Farm Rd)	Kilmayne Dr														1			Type 3 Modified - 848D0609
13084	2	SR-1300 (Kildaire Farm Rd)	Kilmayne Dr		18					8								1		Remove Ramp
13094	2	SR-1300 (Kildaire Farm Rd)	Kilmayne Dr														1			Type 2B - 848.06
13095	2	SR-1300 (Kildaire Farm Rd)	Kilmayne Dr		16					6								1		Remove Ramp
13077	3	SR-1300 (Kildaire Farm Rd)	Office Center (1135 Kildaire Farm Rd)					5									1			Type 1C - 848.06
13078	3	SR-1300 (Kildaire Farm Rd)	Office Center (1135 Kildaire Farm Rd)											1			1			Type 1C - 848.06
13079	3	SR-1300 (Kildaire Farm Rd)	Medical Center (1125 Kildaire Farm Rd)														1			Type 4B - 848D0610
13080	3	SR-1300 (Kildaire Farm Rd)	Medical Center (1125 Kildaire Farm Rd)														1			Type 1C - 848.06
13076	4	SR-1300 (Kildaire Farm Rd)	Executive Cir														1			Standard - 848.06
13098	5	SR-1300 (Kildaire Farm Rd)	Brecotea (1144 Kildaire Farm Rd)														1			Type 1C - 848.06
13099	5	SR-1300 (Kildaire Farm Rd)	Brecotea (1144 Kildaire Farm Rd)														1			Type 1C - 848.06
13071	6	SR-1300 (Kildaire Farm Rd)	First National Bank (1155 Kildaire Farm Rd)														1			Type 1C - 848.06
13072	6	SR-1300 (Kildaire Farm Rd)	First National Bank (1155 Kildaire Farm Rd)														1			Type 1 Modified - 848.06
13102	7	SR-1300 (Kildaire Farm Rd)	Wrenn Dr														1			Type 3 Modified - 848D0609
13103	7	SR-1300 (Kildaire Farm Rd)	Wrenn Dr														1			Type 3 Modified - 848D0609
13104	8	SR-1300 (Kildaire Farm Rd)	Walgreens (1210 Kildaire Farm Rd)														1			Type 3 Modified - 848D0609
13105	8	SR-1300 (Kildaire Farm Rd)	Walgreens (1210 Kildaire Farm Rd)														1			Type 1C - 848.06
13067	9	SR-1300 (Kildaire Farm Rd)	Kildaire Plaza (1207 Kildaire Farm Rd)														1			Type 1C - 848.06
13068	9	SR-1300 (Kildaire Farm Rd)	Kildaire Plaza (1207 Kildaire Farm Rd)														1			Type 1C - 848.06
13106	9	SR-1300 (Kildaire Farm Rd)	Twin Oaks Pl														1			Type 1A - 848.06
13107	9	SR-1300 (Kildaire Farm Rd)	Twin Oaks Pl														1			Type 1A - 848.06
13063	10	SR-1300 (Kildaire Farm Rd)	Saltbox Village Business Center (1241 Kildaire Farm Rd)					17									1			Type 1C - 848.06
13064	10	SR-1300 (Kildaire Farm Rd)	Saltbox Village Business Center (1241 Kildaire Farm Rd)												1		1			Type 7 - 848.06
13065	10	SR-1300 (Kildaire Farm Rd)	Saltbox Village Business Center (1241 Kildaire Farm Rd)												1		1			Type 7 - 848.06
13066	10	SR-1300 (Kildaire Farm Rd)	Saltbox Village Business Center (1241 Kildaire Farm Rd)														1			Type 1C - 848.06
13062	11	SR-1300 (Kildaire Farm Rd)	High Meadow Dr														1			Type 2A - 848.06
13110	11	SR-1300 (Kildaire Farm Rd)	High Meadow Dr														1			Type 1A - 848.06
13058	12	SR-1300 (Kildaire Farm Rd)	Aldi (1315 Kildaire Farm Rd)								3						1			Type 3 - 848D0609
13060	12	SR-1300 (Kildaire Farm Rd)	Aldi (1315 Kildaire Farm Rd)														1		3	Type 2A Modified - 848.06
Sub-Total				0	52	0	0	22	0	22	3	0	0	1	2	0	32	0	3	

*Contingency line item amount provided for adjustments outside of curb ramp pay limits.

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - KILDAIRE FARM RD FROM SR 1009 TO SR 1415

Municipality:	Cary
WBS Number:	2026CPT.05.15.20921.1
County:	Wake

Sheet No.	27
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb	2752000000-E (LF) Remove And Replace 1'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2655000000-E (SY) 5" Monolithic Concrete Island (Keyed In)	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
13056	13	SR-1300 (Kildaire Farm Rd)	Fifth Third Bank (1397 Kildaire Farm Rd)														1			Type 1 Modified - 848.06
13057	13	SR-1300 (Kildaire Farm Rd)	Fifth Third Bank (1397 Kildaire Farm Rd)														1			Type 1 Modified - 848.06
13035	14	SR-1300 (Kildaire Farm Rd)	SR-3977 (SE Cary Pkwy)														1			Type 3 Modified - 848D0609
13036	14	SR-1300 (Kildaire Farm Rd)	SR-3977 (SE Cary Pkwy)														1			Type 3 Modified - 848D0609
13042	15	SR-1300 (Kildaire Farm Rd)	Cary Dermatology Center (101 SW Cary Pkwy) Kildaire Farm Rd Entrance														1			Type 1 Modified - 848.06
13043	15	SR-1300 (Kildaire Farm Rd)	Cary Dermatology Center (101 SW Cary Pkwy) Kildaire Farm Rd Entrance														1			Type 1 Modified - 848.06
13033	16	SR-1300 (Kildaire Farm Rd)	Quality Inspection Center (1413 Kildaire Farm Rd)														1			Type 1 Modified - 848.06
13034	16	SR-1300 (Kildaire Farm Rd)	Quality Inspection Center (1413 Kildaire Farm Rd)														1			Type 1C - 848.06
13044	17	SR-1300 (Kildaire Farm Rd)	Castlewood Dr														1			Type 1C - 848.06
13045	17	SR-1300 (Kildaire Farm Rd)	Castlewood Dr											1			1			Type 1C - 848.06
13029	18	SR-1300 (Kildaire Farm Rd)	Troon Village Ln														1			Type 1A - 848.06
13030	18	SR-1300 (Kildaire Farm Rd)	Troon Village Ln												2		1			Type 7 - 848.06
13031	18	SR-1300 (Kildaire Farm Rd)	Troon Village Ln												2		1			Type 7 - 848.06
13032	18	SR-1300 (Kildaire Farm Rd)	Troon Village Ln														1			Type 3 Modified - 848D0609
13046	19	SR-1300 (Kildaire Farm Rd)	Dabney Rd														1			Type 1C - 848.06
13047	19	SR-1300 (Kildaire Farm Rd)	Dabney Rd														1			Type 1A - 848.06
13027**	20	SR-1300 (Kildaire Farm Rd)	Mcenroe Ct														1			Type 1 Modified - 848.06
13048	20	SR-1300 (Kildaire Farm Rd)	Queensferry Rd														1			Type 2B - 848.06
13049	20	SR-1300 (Kildaire Farm Rd)	Queensferry Rd														1			Type 1A - 848.06
13050	20	SR-1300 (Kildaire Farm Rd)	Queensferry Rd											1			1			Type 3 Modified - 848D0609
13025	21	SR-1300 (Kildaire Farm Rd)	Laver Dr														1			Type 1C - 848.06
13053**	21	SR-1300 (Kildaire Farm Rd)	Glasgow Rd														1			Type 2B - 848.06
13023	22	SR-1300 (Kildaire Farm Rd)	Springhurst lane	8													1			Type 7 - 848.06
13024	22	SR-1300 (Kildaire Farm Rd)	Springhurst lane	8													1			Type 7 - 848.06
26485	23	SR-1300 (Kildaire Farm Rd)	Cary Eye Associates (1608 Kildaire Farm Rd)														1			Type 2B - 848.06
26486	23	SR-1300 (Kildaire Farm Rd)	Cary Eye Associates (1608 Kildaire Farm Rd)														1			Standard - 848.06
13019	24	SR-1300 (Kildaire Farm Rd)	Spring Arbor Senior Living (1705 Kildaire Farm Rd)														1			Type 2B - 848.06
26379	25	SR-1300 (Kildaire Farm Rd)	Office Building (115 Kildaire Park Dr) Side Entrance	5													1			Type 7 - 848.06
26380	25	SR-1300 (Kildaire Farm Rd)	Office Building (115 Kildaire Park Dr) Side Entrance	5													1			Type 7 - 848.06
26483	25	SR-1300 (Kildaire Farm Rd)	Office Building (115 Kildaire Park Dr) Side Entrance														1			Type 1A - 848.06
13055	26	SR-1300 (Kildaire Farm Rd)	Wake Medical Dr							2							1			Type 1C - 848.06
26480**	26	SR-1300 (Kildaire Farm Rd)	Kildaire Park Dr							2							1			Type 1D - 848.06
13013	27	SR-1300 (Kildaire Farm Rd)	Cary Fire Department Station 3 (1807 Kildaire Farm Rd)														1			Type 1A - 848.06
13011	28	SR-1300 (Kildaire Farm Rd)	Keisler Dr														1			Type 1C - 848.06
Sub-Total				26	0	0	0	0	0	4	0	0	0	2	4	0	34	0	0	

*Contingency line item amount provided for adjustments outside of curb ramp pay limits.

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - KILDAIRE FARM RD FROM SR 1009 TO SR 1415

Municipality:	Cary
WBS Number:	2026CPT.05.15.20921.1
County:	Wake

Sheet No.	28
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb	2752000000-E (LF) Remove And Replace 1'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2655000000-E (SY) 5" Monolithic Concrete Island (Keyed In)	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
13012	28	SR-1300 (Kildaire Farm Rd)	Keisler Dr														1			Type 1C - 848.06
8048	29	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)														1			Type 3 Modified - 848D0609
8049	29	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)														1			Type 3 Modified - 848D0609
8067**	29	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)							3							1			Type 3 Modified - 848D0609
8068	29	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)										1				1			Type 3 Modified - 848D0609
8069**	29	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)			12			10		3									Other
8050**	30	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)	9						9					8	9	1			Type 6 - 848.06
8051	30	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)	9						9					5	9	1			Type 6 - 848.06
8052	30	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)	9						9					5	9	1			Type 6 - 848.06
8053	30	SR-1009 (Tryon Rd)	SR-1300 (Kildaire Farm Rd)														1			Type 1A - 848.06
26636	31	SR-1300 (Kildaire Farm Rd)	Walmart (2010 Kildaire Farm Rd)														1			Type 1A - 848.06
26637	31	SR-1300 (Kildaire Farm Rd)	Walmart (2010 Kildaire Farm Rd)		16														1	Remove Ramp
26638	31	SR-1300 (Kildaire Farm Rd)	Walmart (2010 Kildaire Farm Rd)	5			1								1	5		1		Type 6 - 848.06
26639	31	SR-1300 (Kildaire Farm Rd)	Walmart (2010 Kildaire Farm Rd)	5			1								1	5		1		Type 6 - 848.06
26640	31	SR-1300 (Kildaire Farm Rd)	Walmart (2010 Kildaire Farm Rd)		16														1	Remove Ramp
26641	31	SR-1300 (Kildaire Farm Rd)	Walmart (2010 Kildaire Farm Rd)														1			Type 1A - 848.06
-	-	-	-	-	-	-	-	240*	-	-	87*	25*	-	-	-	-	-	-	-	
Sub-Total				37	32	12	2	240	10	30	90	25	1	0	20	37	11	2	2	
Sub-Total for Kildaire Farm Rd From SR 1009 To SR 1415				63	84	12	2	262	10	56	93	25	1	3	26	37	77	2	5	

*Contingency line item amount provided for adjustments outside of curb ramp pay limits.

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - HOLT RD FROM BEGIN C&G TO SR 3011

Municipality:	Apex
WBS Number:	2026CPT.05.15.20921.1
County:	Wake

Sheet No.
29

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb	2752000000-E (LF) Remove And Replace 1'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2655000000-E (SY) 5" Monolithic Concrete Island (Keyed In)	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
26492	1	SR-1612 (Holt Rd)	Templeton Gap Dr														1			Type 1A - 848.06
26493	1	SR-1612 (Holt Rd)	Templeton Gap Dr														1			Type 1A - 848.06
9521	2	SR-1612 (Holt Rd)	Sutton Glen Dr					9*									1			Type 3 Modified - 848D0609
Sub-Total for Holt Rd From Begin C&G To SR 3011				0	0	0	0	9	0	0	0	0	0	0	0	0	3	0	0	

*Contingency line item amount provided for adjustments outside of curb ramp pay limits.

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - WEST LAKE RD FROM SR 1010 TO PAVEMENT JOINT

Municipality:	Cary
WBS Number:	2026CPT.05.15.20921.1
County:	Wake

Sheet No.
30

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb	2752000000-E (LF) Remove And Replace 1'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2655000000-E (SY) 5" Monolithic Concrete Island (Keyed In)	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
24477	1	SR-1010 (Ten Ten Rd)	SR-1387 (West Lake Rd)		20					15				3					1	Remove Ramp
24478	1	SR-1010 (Ten Ten Rd)	SR-1387 (West Lake Rd)		20					15				1					1	Remove Ramp
26586	2	SR-1387 (West Lake Rd)	Commons Ford Pl														1			Type 4B - 848D0610
26587	2	SR-1387 (West Lake Rd)	Commons Ford Pl														1			Type 4B - 848D0610
-	-	-	-	-	-	-	-	12*	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for West Lake Rd From SR 1010 To Pavement Joint				0	40	0	0	12	0	30	0	0	0	4	0	0	2	0	2	

*Contingency line item amount provided for adjustments outside of curb ramp pay limits.

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - WEST LAKE RD FROM BEGIN C&G TO SR 1390

Municipality:	Cary
WBS Number:	2026CPT.05.15.20921.1
County:	Wake

Sheet No.	31
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb	2752000000-E (LF) Remove And Replace 1'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2655000000-E (SY) 5" Monolithic Concrete Island (Keyed In)	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
6402	1	SR-1387 (West Lake Rd)	Middle Creek Elementary School (110 Middle Creek Park Ave) W Lake Rd Entrance		20					9									1	Remove Ramp
6403	1	SR-1387 (West Lake Rd)	Middle Creek Elementary School (110 Middle Creek Park Ave) W Lake Rd Entrance														1			Type 3 Modified - 848D0609
6404	1	SR-1387 (West Lake Rd)	Middle Creek Elementary School (110 Middle Creek Park Ave) W Lake Rd Entrance		18					9									1	Remove Ramp
6670	1	SR-1387 (West Lake Rd)	Middle Creek Elementary School (110 Middle Creek Park Ave) W Lake Rd Entrance														1			Type 1A - 848.06
6405	2	SR-1387 (West Lake Rd)	Middle Creek Park Ave														1			Type 3 Modified - 848D0609
6406	2	SR-1387 (West Lake Rd)	Middle Creek Park Ave														1			Type 3 Modified - 848D0609
6407	2	SR-1387 (West Lake Rd)	Middle Creek Park Ave														1			Type 3 Modified - 848D0609
6408	2	SR-1387 (West Lake Rd)	Middle Creek Park Ave														1			Type 3 Modified - 848D0609
6409	2	SR-1387 (West Lake Rd)	Wolfs Bane Dr														1			Type 3 Modified - 848D0609
6410	2	SR-1387 (West Lake Rd)	Wolfs Bane Dr														1			Type 3 Modified - 848D0609
6411	2	SR-1387 (West Lake Rd)	Wolfs Bane Dr														1			Type 3 Modified - 848D0609
6412	2	SR-1387 (West Lake Rd)	Wolfs Bane Dr														1			Type 3 Modified - 848D0609
6413	3	SR-1387 (West Lake Rd)	Middle Creek Tennis Courts (151 Middle Creek Park Ave) W Lake Rd Entrance														1			Type 2B - 848.06
6414	3	SR-1387 (West Lake Rd)	Middle Creek Tennis Courts (151 Middle Creek Park Ave) W Lake Rd Entrance														1			Type 1C - 848.06
6415	4	SR-1390 (Optimist Farm Rd)	SR-1387 (West Lake Rd)														1			Standard - 848.06
6416	4	SR-1390 (Optimist Farm Rd)	SR-1387 (West Lake Rd)														1			Standard - 848.06
6417	4	SR-1390 (Optimist Farm Rd)	SR-1387 (West Lake Rd)														1			Type 3 Modified - 848D0609
6418	4	SR-1390 (Optimist Farm Rd)	SR-1387 (West Lake Rd)														1			Type 3 Modified - 848D0609
6419	4	SR-1390 (Optimist Farm Rd)	West Lake Rd											1			1			Type 3 Modified - 848D0609
6420	4	SR-1390 (Optimist Farm Rd)	West Lake Rd								6						1			Type 3 Modified - 848D0609
Sub-Total for West Lake Rd From Begin C&G To SR 1390				0	38	0	0	54*	0	18	30	0	0	1	0	0	18	0	2	

*Contingency line item amount provided for adjustments outside of curb ramp pay limits.

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - GREEN LEVEL CHURCH RD FROM CUL-DE-SAC TO SR 1608

Municipality:	Apex
WBS Number:	2026CPT.05.15.20921.1
County:	Wake

Sheet No.
32

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb	2752000000-E (LF) Remove And Replace 1'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2655000000-E (SY) 5" Monolithic Concrete Island (Keyed In)	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
26504	1	SR-1600 (Green Level Church Rd)	Roberts Rd		5												1			Type 1A - 848.06
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sub-Total for Green Level Church Rd From Cul-de-sac To SR 1608				0	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	

*Contingency line item amount provided for adjustments outside of curb ramp pay limits.

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.05.15.20921.1, 2026CPT.05.15.20922.1	33	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH		0156000000-E		1220000000-E		1245000000-E		1260000000-E		1297000000-E		1308000000-E			1330000000-E		1519000000-E		1523000000-E		1575000000-E		1704000000-E		2535000000-E		2549000000-E							
								MI	FT	SY	TONS	SMI	TON	SY	SY	SY	SY	SY	SY	SY	TONS	TONS	TON	TONS	TON	TONS	LF	LF														
2026CPT.05.15.20921.1	Wake	1	SR-1152 / HOLLY SPRINGS RD	FROM PAVEMENT JOINT TO SR 1379	3	2	2WU	1.128	24-66		57	2.26	209			510					1,911	1,964		137	197																	
TOTAL FOR MAP NO. 1									1.128		57	2.26	209		510			1,911	1,964		137	197																				
2026CPT.05.15.20921.1	Wake	2	SR-1163 / KELLY RD	FROM PAVEMENT JOINT TO SR 1600	3	2	2WU	0.238	20		12	0.50	44								84	215		14	2																	
TOTAL FOR MAP NO. 2									0.238		12	0.50	44					84	215		14	2																				
2026CPT.05.15.20921.1	Wake	3	SR-1300 / KILDAIRE FARM RD	FROM SR 1009 TO SR 1415	5	2	MU	2.200	60-68	63					75,771						4,345			7,067	424	140	12.00	84														
TOTAL FOR MAP NO. 3									2.200		63			75,771				4,345		7,067	424	140	12.00	84																		
2026CPT.05.15.20921.1	Wake	4	SR-1387 / WEST LAKE RD/PIERCE OLIVE RD	FROM SR 1010 TO PAVEMENT JOINT	3	2	2WU	0.420	23-60		21	0.90	78			841					347	753		49																		
TOTAL FOR MAP NO. 4									0.420		21	0.90	78		841			347	753		49																					
2026CPT.05.15.20921.1	Wake	5	SR-1387 / WEST LAKE RD	FROM PAVEMENT JOINT TO BEGIN CURB & GUTTER	3	2	2WU	0.070	31-44		4	0.20	13								319	221		16	24																	
TOTAL FOR MAP NO. 5									0.070		4	0.20	13					319	221		16	24																				
2026CPT.05.15.20921.1	Wake	6	SR-1387 / WEST LAKE RD	FROM BEGIN C&G TO SR 1390	4	2	MD	0.560	32-77						16,230						703	1,467		95																		
TOTAL FOR MAP NO. 6									0.560					16,230				703	1,467		95																					
2026CPT.05.15.20921.1	Wake	7	SR-1388 / LAWDRAKER RD	FROM SR 1010 TO DEAD END	2	2	2WU	0.979	20-49		20	0.80	73								161	841		60	101																	
TOTAL FOR MAP NO. 7									0.979		20	0.80	73					161	841		60	101																				
2026CPT.05.15.20921.1	Wake	8	SR-1498 / DUTCHMAN DR	FROM SR 1379 TO SR 1539	2	2	2WU	0.890	20												135	766		50																		
TOTAL FOR MAP NO. 8									0.890									135	766		50																					
2026CPT.05.15.20921.1	Wake	9	SR-1499 / HOLLANDER PL	FROM CUL-DE-SAC TO CUL-DE-SAC	2	2	2WU	0.250	20													254		18	31																	
TOTAL FOR MAP NO. 9									0.250											254		18	31																			
2026CPT.05.15.20921.1	Wake	10	SR-1536 / BELGIUM DR	FROM END MAINT TO DEAD END	2	2	2WU	0.600	20												71	520		37	63																	
TOTAL FOR MAP NO. 10									0.600									71	520		37	63																				
2026CPT.05.15.20921.1	Wake	11	SR-1537 / THE DYKE	FROM SR1536 TO SR 1541	2	2	2WU	0.260	20													231		15																		
TOTAL FOR MAP NO. 11									0.260										231		15																					
2026CPT.05.15.20921.1	Wake	12	SR-1538 / THE HAGUE	FROM SR 1537 TO SR 1541	2	2	2WU	0.160	20													138		9																		
TOTAL FOR MAP NO. 12									0.160										138		9																					
2026CPT.05.15.20921.1	Wake	13	SR-1539 / NETHERLANDS DR	FROM SR 1152 TO CUL-DE-SAC	2	2	2WU	0.960	20		10	0.40	36								114	869		61	84																	
TOTAL FOR MAP NO. 13									0.960		10	0.40	36					114	869		61	84																				
2026CPT.05.15.20921.1	Wake	14	SR-1541 / AMSTERDAM PL	FROM SR 1537 TO DEAD END	2	2	2WU	0.550	20													472		33	57																	
TOTAL FOR MAP NO. 14									0.550										472		33	57																				
2026CPT.05.15.20921.1	Wake	15	SR-1544 / BRENTLY DR	FROM SR 1388 TO SR 1010	2	2	2WU	0.200	20		1	0.02	2								109	178		13	22																	
TOTAL FOR MAP NO. 15									0.200		1	0.02	2					109	178		13	22																				
2026CPT.05.15.20921.1	Wake	16	SR-1594 / DUTCH CREEK DR	FROM SR 1539 TO SR 1010	2	2	2WU	0.460	20-28												168	409		29	49																	
TOTAL FOR MAP NO. 16									0.460									168	409		29	49																				
2026CPT.05.15.20921.1	Wake	17	SR-1600 / GREEN LEVEL CHURCH RD	FROM CUL-DE-SAC TO SR 1608	3	2	2WU	1.518	22-46		58	2.50	214			1,003					655	2,619		181	222																	
TOTAL FOR MAP NO. 17									1.518		58	2.50	214		1,003			655	2,619		181	222																				
2026CPT.05.15.20921.1	Wake	18	SR-1612 / HOLT RD	FROM BEGIN C&G TO SR 3011	4	2	2WU	0.643	30-36						12,265						465	1,142		75	10																	
TOTAL FOR MAP NO. 18									0.643					12,265				465	1,142		75	10																				
2026CPT.05.15.20921.1	Wake	19	SR-1612 / HOLT RD	FROM SR 1611 TO BEGIN C&G	3	2	2WU	0.456	20-36		23	1.00	85			407					269	531		35																		
TOTAL FOR MAP NO. 19									0.456		23	1.00	85		407			269	531		35																					
2026CPT.05.15.20921.1	Wake	20	SR-1992 / WILLOWDALE CT	FROM SR 1390 TO CUL-DE-SAC	2	2	2WU	0.145	18-25												131	145		9																		
TOTAL FOR MAP NO. 20									0.145									131	145		9																					
2026CPT.05.15.20921.1	Wake	21	SR-3111 / FARMPOUND RD	FROM SR 1613 TO DEAD END	3	2	2WU	0.349	20-30		18	0.70	65			143					125	398		26	2																	
TOTAL FOR MAP NO. 21									0.349		18	0.70	65		143			125	398		26	2																				
2026CPT.05.15.20921.1	Wake	22	SR-3767 / OXFORD GREEN DR	FROM DEAD END TO DEAD END	3	2	2WU	0.320	20		16	0.64	60									323		21	1																	
TOTAL FOR MAP NO. 22									0.320		16	0.64	60						323		21	1																				

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.05.15.20921.1, 2026CPT.05.15.20922.1	36	

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	2591000000-E	2605000000-N	2612500000-N	2655000000-E	2738000000-E	2738000000-E	2752000000-E			2759000000-N	2830000000-N	2845000000-N	4600000000-N	7440000000-E							
										4" CONCRETE SIDEWALK	CONCRETE CURB RAMPS	REMOVE AND REPLACE CONCRETE CURB RAMPS	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	REMOVE AND REPLACE 4" CONCRETE SIDEWALK	REMOVE 5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	REMOVE 4" CONCRETE SIDEWALK	REMOVE AND REPLACE 1'-6" CONCRETE CURB & GUTTER	REMOVE AND REPLACE 2'-6" CONCRETE CURB & GUTTER	REMOVE 2'-6" CONCRETE CURB AND GUTTER	REMOVE CONCRETE CURB RAMPS	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	PEDESTRIAN TRANSPORT SERVICE	AUDIBLE WARNING DEVICES	INDUCTIVE LOOP SAWCUT					
								MI	FT	SY	EA	EA	SY	SY	SY	LF	LF	LF	EA	EA	EA	EA	EA	LF						
2026CPT.05.15.20921.1	Wake	23	SR-3932 / BRIARWOOD DR	FROM SR 1375 TO PAVEMENT JOINT/END MAINTENANCE	4	2	2WU	0.410	20																					
TOTAL FOR MAP NO. 23																														
2026CPT.05.15.20921.1	Wake	24	SR-3965 / DUTCH HARBOR CT	FROM SR 1594 TO SR 3966	2	2	2WU	0.110	18																					
TOTAL FOR MAP NO. 24																														
2026CPT.05.15.20921.1	Wake	25	SR-3966 / DUTCH HARBOR CT	FROM CUL-DE-SAC TO CUL-DE-SAC	2	2	2WU	0.070	18																					
TOTAL FOR MAP NO. 25																														
2026CPT.05.15.20921.1	Wake	26	SR-4040 / SOUTH POINTE DR	FROM SR 1388 TO SR 5037	2	2	2WU	0.321	18												4									
TOTAL FOR MAP NO. 26																					4									
2026CPT.05.15.20921.1	Wake	27	SR-4711 / DENBERG LN	FROM SR 1536 TO CUL-DE-SAC	2	2	2WU	0.193	18																					
TOTAL FOR MAP NO. 27																														
2026CPT.05.15.20921.1	Wake	28	SR-4712 / MENDI CT	FROM SR 4711 TO CUL-DE-SAC	2	2	2WU	0.030	18																					
TOTAL FOR MAP NO. 28																														
2026CPT.05.15.20921.1	Wake	29	SR-4720 / LOCH HIGHLANDS DR	FROM SR 1379 TO CUL-DE-SAC	2	2	2WU	0.192	18																					
TOTAL FOR MAP NO. 29																														
2026CPT.05.15.20921.1	Wake	30	SR-4776 / BREDA CT	FROM SR 1594 TO CUL-DE-SAC	2	2	2WU	0.040	20																					
TOTAL FOR MAP NO. 30																														
2026CPT.05.15.20921.1	Wake	31	SR-5037 / SUMMER OAKS DR	FROM SR 1387 TO CUL-DE-SAC	1	2	2WU	0.364	18-20																					
TOTAL FOR MAP NO. 31																														
TOTAL FOR PROJ NO. 2026CPT.05.15.20921.1									15.086						104	2	101	26	123	37	25	2	337	10	9	10	13	20	8	22,200
2026CPT.05.15.20922.1	Wake	32	SR-1992 / WILLOWDALE CT	FROM SR 1390 TO CUL-DE-SAC	1	2	2WU	0.140	18-20																					
TOTAL FOR MAP NO. 32																														
2026CPT.05.15.20922.1	Wake	33	SR-1995 / VALLEY HILL CT	FROM SR 1386 TO CUL-DE-SAC	2	2	2WU	0.070	18																					
TOTAL FOR MAP NO. 33																														
2026CPT.05.15.20922.1	Wake	34	SR-3960 / VANDAM DR	FROM SR 1388 TO CUL-DE-SAC	1	2	2WU	0.160	20																					
TOTAL FOR MAP NO. 34																														
2026CPT.05.15.20922.1	Wake	35	SR-3961 / CHARLBERT CT	FROM SR 3960 TO CUL-DE-SAC	1	2	2WU	0.130	18-20																					
TOTAL FOR MAP NO. 35																														
2026CPT.05.15.20922.1	Wake	36	SR-3964 / SEDONA PL	FROM SR 1388 TO CUL-DE-SAC	1	2	2WU	0.170	20																					
TOTAL FOR MAP NO. 36																														
2026CPT.05.15.20922.1	Wake	37	SR-3973 / LOCKLEY RD	FROM SR 1301 TO END MAINT	1	2	2WU	0.150	18-20																					
TOTAL FOR MAP NO. 37																														
2026CPT.05.15.20922.1	Wake	38	SR-5833 / RUSTIC MILL DR	FROM SR 1388 TO DEAD END	1	2	2WU	0.196	20																					
TOTAL FOR MAP NO. 38																														
2026CPT.05.15.20922.1	Wake	39	SR-5847 / WHISTLEBERRY CT	FROM SR 1992 TO CUL-DE-SAC	1	2	2WU	0.111	20																					
TOTAL FOR MAP NO. 39																														
2026CPT.05.15.20922.1	Wake	40	SR-5849 / LAYTON RIDGE DR	FROM SR 5037 TO SR 1387	1	2	2WU	0.310	20																					
TOTAL FOR MAP NO. 40																														
TOTAL FOR PROJ NO. 2026CPT.05.15.20922.1									1.437																					
GRAND TOTAL									16.523						104	2	101	26	123	37	25	2	337	10	9	10	13	20	8	22,200

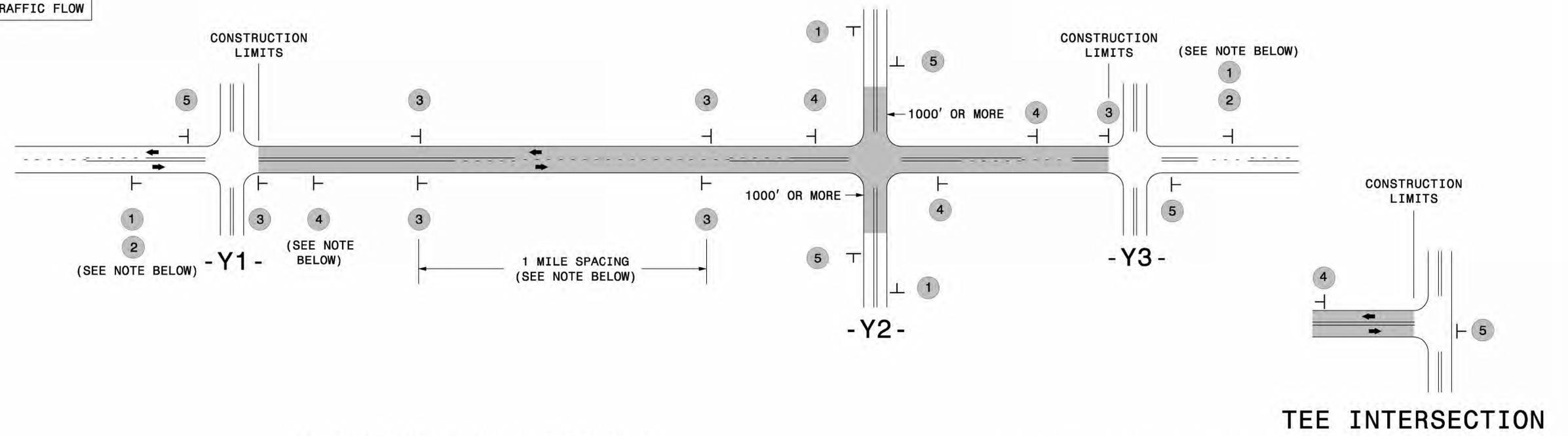
PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.05.15.20921.1	40	
2026CPT.05.15.20922.1		

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	477000000-E		481000000-E		482000000-E		482500000-E		483500000-E	484500000-N					
										4" WHITE COLD APPLIED PLASTIC, TYPE II	4" YELLOW COLD APPLIED PLASTIC, TYPE II	4" WHITE PAINT	4" YELLOW PAINT	8" WHITE PAINT	8" YELLOW PAINT	12" WHITE PAINT	12" YELLOW PAINT	24" WHITE PAINT	PAINT LT ARROW	PAINT RT ARROW	PAINT STR ARROW	PAINT STR & RT ARROW		
										LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA		
2026CPT.05.15.20921.1	Wake	23	SR-3932 / BRIARWOOD DR	FROM SR 1375 TO PAVEMENT JOINT/END MAINTENANCE	4	2	2WU	0.41	20															
TOTAL FOR MAP NO. 23																								
2026CPT.05.15.20921.1	Wake	24	SR-3965 / DUTCH HARBOR CT	FROM SR 1594 TO SR 3966	2	2	2WU	0.11	18															
TOTAL FOR MAP NO. 24																								
2026CPT.05.15.20921.1	Wake	25	SR-3966 / DUTCH HARBOR CT	FROM CUL-DE-SAC TO CUL-DE-SAC	2	2	2WU	0.07	18															
TOTAL FOR MAP NO. 25																								
2026CPT.05.15.20921.1	Wake	26	SR-4040 / SOUTH POINTE DR	FROM SR 1388 TO SR 5037	2	2	2WU	0.321	18															
TOTAL FOR MAP NO. 26																								
2026CPT.05.15.20921.1	Wake	27	SR-4711 / DENBERG LN	FROM SR 1536 TO CUL-DE-SAC	2	2	2WU	0.193	18															
TOTAL FOR MAP NO. 27																								
2026CPT.05.15.20921.1	Wake	28	SR-4712 / MENDI CT	FROM SR 4711 TO CUL-DE-SAC	2	2	2WU	0.03	18															
TOTAL FOR MAP NO. 28																								
2026CPT.05.15.20921.1	Wake	29	SR-4720 / LOCH HIGHLANDS DR	FROM SR 1379 TO CUL-DE-SAC	2	2	2WU	0.192	18															
TOTAL FOR MAP NO. 29																								
2026CPT.05.15.20921.1	Wake	30	SR-4776 / BREDA CT	FROM SR 1594 TO CUL-DE-SAC	2	2	2WU	0.04	20															
TOTAL FOR MAP NO. 30																								
2026CPT.05.15.20921.1	Wake	31	SR-5037 / SUMMER OAKS DR	FROM SR 1387 TO CUL-DE-SAC	1	2	2WU	0.364	18-20															
TOTAL FOR MAP NO. 31																								
TOTAL FOR PROJ NO. 2026CPT.05.15.20921.1																								
									15.086			140	1,120	21,400	36,340	920	300	240	120	2,310	84	33	46	26
												1,260		57,740		1,220		360				189		
2026CPT.05.15.20922.1	Wake	32	SR-1992 / WILLOWDALE CT	FROM SR 1390 TO CUL-DE-SAC	1	2	2WU	0.14	18-20															
TOTAL FOR MAP NO. 32																								
2026CPT.05.15.20922.1	Wake	33	SR-1995 / VALLEY HILL CT	FROM SR 1386 TO CUL-DE-SAC	2	2	2WU	0.07	18															
TOTAL FOR MAP NO. 33																								
2026CPT.05.15.20922.1	Wake	34	SR-3960 / VANDAM DR	FROM SR 1388 TO CUL-DE-SAC	1	2	2WU	0.16	20															
TOTAL FOR MAP NO. 34																								
2026CPT.05.15.20922.1	Wake	35	SR-3961 / CHARLBERT CT	FROM SR 3960 TO CUL-DE-SAC	1	2	2WU	0.13	18-20															
TOTAL FOR MAP NO. 35																								
2026CPT.05.15.20922.1	Wake	36	SR-3964 / SEDONA PL	FROM SR 1388 TO CUL-DE-SAC	1	2	2WU	0.17	20															
TOTAL FOR MAP NO. 36																								
2026CPT.05.15.20922.1	Wake	37	SR-3973 / LOCKLEY RD	FROM SR 1301 TO END MAINT	1	2	2WU	0.15	18-20															
TOTAL FOR MAP NO. 37																								
2026CPT.05.15.20922.1	Wake	38	SR-5833 / RUSTIC MILL DR	FROM SR 1388 TO DEAD END	1	2	2WU	0.196	20															
TOTAL FOR MAP NO. 38																								
2026CPT.05.15.20922.1	Wake	39	SR-5847 / WHISTLEBERRY CT	FROM SR 1992 TO CUL-DE-SAC	1	2	2WU	0.111	20															
TOTAL FOR MAP NO. 39																								
2026CPT.05.15.20922.1	Wake	40	SR-5849 / LAYTON RIDGE DR	FROM SR 5037 TO SR 1387	1	2	2WU	0.31	20															
TOTAL FOR MAP NO. 40																								
TOTAL FOR PROJ NO. 2026CPT.05.15.20922.1																								
									1.437															
GRAND TOTAL																								
									16.523			140	1,120	21,400	36,340	920	300	240	120	2,310	84	33	46	26
												1,260		57,740		1,220		360				189		

SIGNING FOR RESURFACING PROJECTS

LEGEND
 ┃ STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

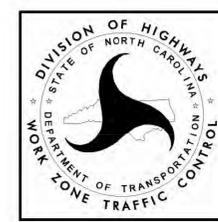
-Y- LINE SIGNING

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

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

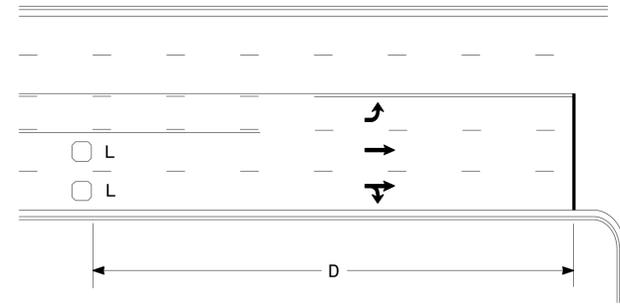
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



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

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High Speed Detection (≥35 mph)

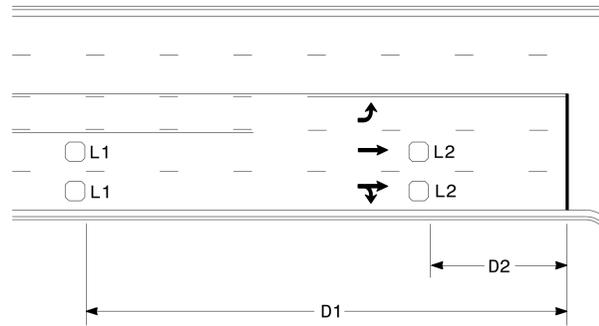


Speed Limit mph	D ft
35	200
40	250
45	300
50	355
55	420
60	475
65	550

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR



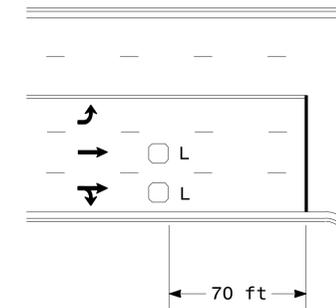
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110
60	475	120
65	550	130

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

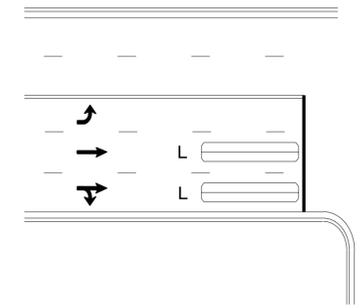
"Stretch" Operation

Low Speed Detection (≤35 mph)



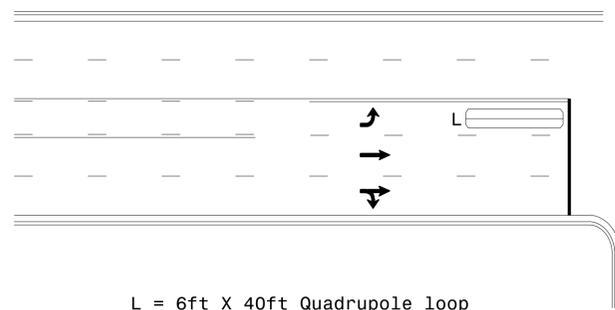
L = 6ft X 6ft
Wired in series

OR



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

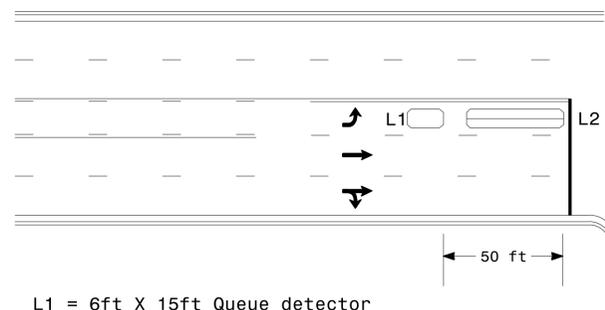
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

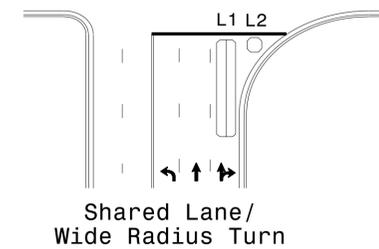
OR



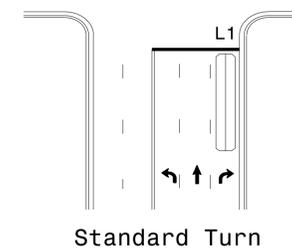
L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection

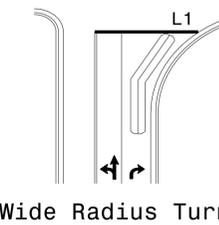
Right Turn Lane Detection



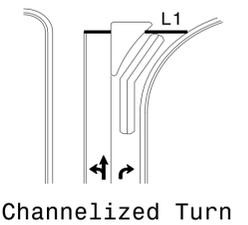
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

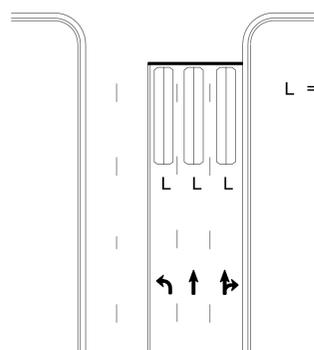


Wide Radius Turn



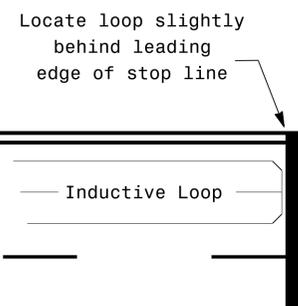
Channelized Turn

Side Street Detection



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

Presence Loop Placement at Stop Lines



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

Recommended Number of Turns

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

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

Quadrupole loops: Use 2-4-2 turns

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

Typical Signal Loop Locations

PLAN DATE: September 2025 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

SCALE: N/A

DATE: 11/25/2025

SIG. INVENTORY NO.