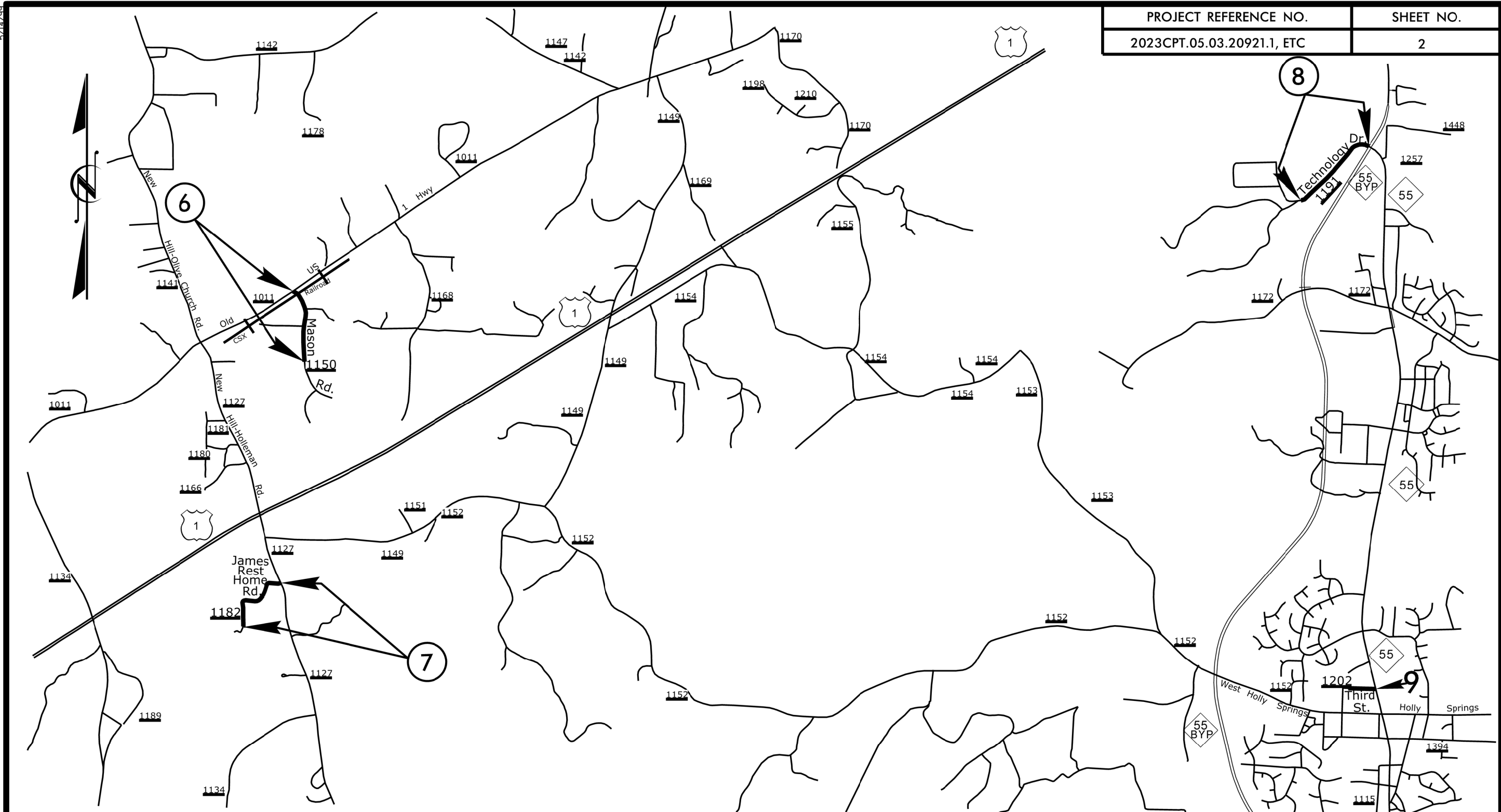


- 1. SR 1101 Piney Grove Wilbon Rd.
- 2. SR 1101 Piney Grove Wilbon Rd.
- 3. SR 1398 Dickens Rd.
- 4. SR 3969 Technology Park Ln.
- 5. SR 2770 Angier Rd. / E. Vance St.

2024 South Wake County Resurfacing

5/14/23
CUSTOMER: 20230503209211
PROJECT: 20230503209211
SHEET: 1



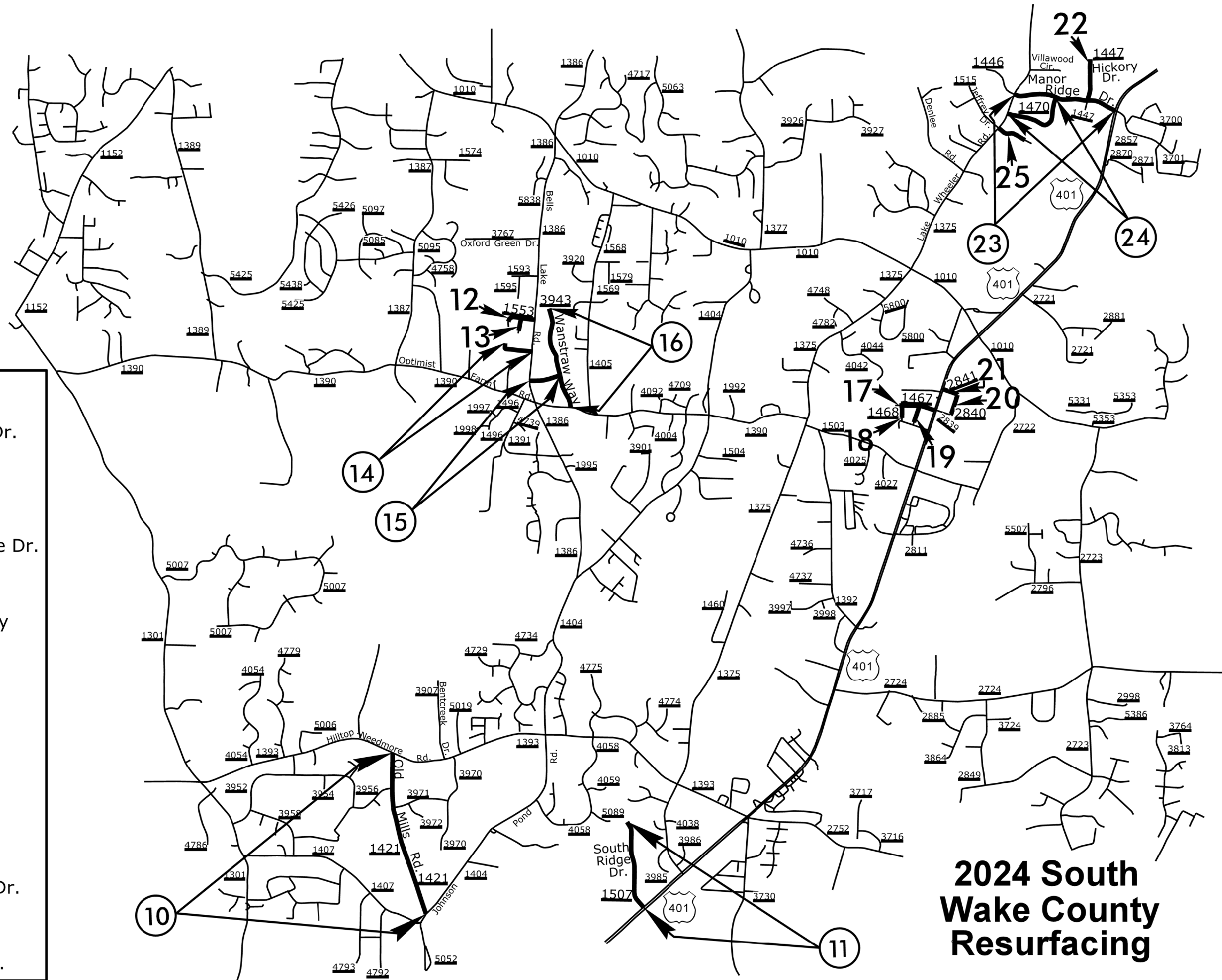
- 6. SR 1150 Mason Rd.
- 7. SR 1182 James Rest Home Rd.
- 8. SR 1191 Technology Dr.
- 9. SR 1202 Third St.

2024 South Wake County Resurfacing

5/14/23
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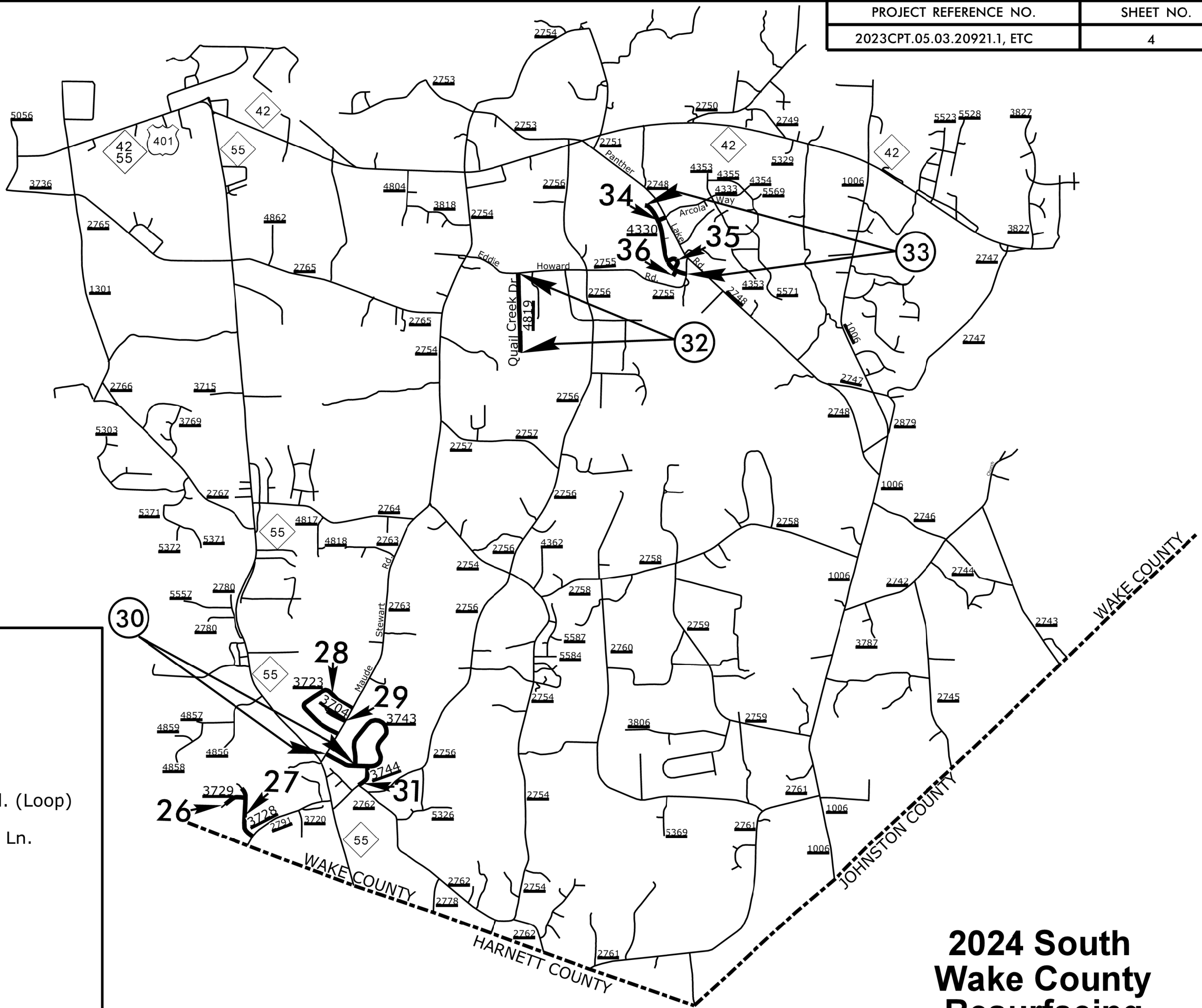


- 10. SR 1421 Old Mills Rd.
- 11. SR 1507 South Ridge Dr.
- 12. SR 1553 Westwood Ln.
- 13. SR 1554 Salem Dr.
- 14. SR 4766 Old Sturbridge Dr.
- 15. SR 3942 Durnford Dr.
- 16. SR 3943 Wanstraw Way
- 17. SR 1467 W. Allen St.
- 18. SR 1468 Marigold St.
- 19. SR 1469 Lobella St.
- 20. SR 2840 Camellia St.
- 21. SR 2841 Red Bud St.
- 22. SR 1447 Hickory Dr.
- 23. SR 1446 Manor Ridge Dr.
- 24. SR 1470 Purland Dr.
- 25. SR 1522 Stoneyford Ct.



2024 South Wake County Resurfacing

5/14/23
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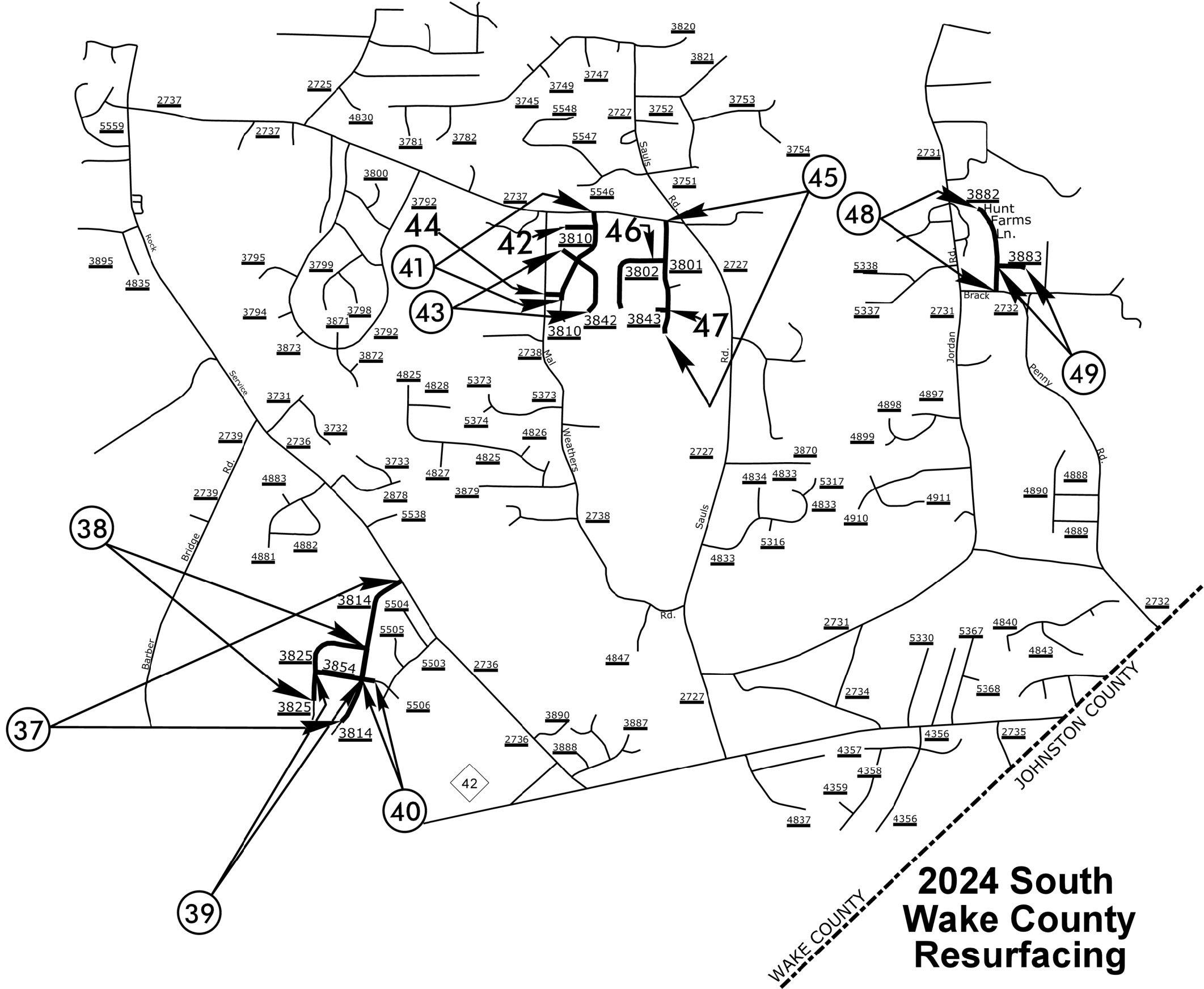
- 26. SR 3729 Regal Dr.
- 27. SR 3728 Oakcliff Ln.
- 28. SR 3723 Tram Rd.
- 29. SR 3704 Trestle Ct.
- 30. SR 3743 Mary Marvin Trl. (Loop)
- 31. SR 3744 Amanda Cassie Ln.
- 32. SR 4819 Quail Creek Dr.
- 33. SR 4330 Westworth Dr.
- 34. SR 4333 Arcola Way
- 35. SR 4331 Whitset Pl.
- 36. SR 4332 Valhalla Ct.

2024 South Wake County Resurfacing

5/14/23
CUSTOMER: WAKE COUNTY
PROJECT: 2023CPT.05.03.20921.1, ETC
SHEET: 4



- 37. SR 3814 Walnut Cove Dr.
- 38. SR 3825 Starburst Ln.
- 39. SR 3854 Willow Winds Dr.
- 40. SR 5506 Willow Winds Dr.
- 41. SR 3810 South Downs Dr.
- 42. SR 3811 New Castle Ct.
- 43. SR 3842 Walking Stick Trl.
- 44. SR 3812 Kerrigan Ln.
- 45. SR 3801 Swales Way
- 46. SR 3802 Wildorlyn Cir.
- 47. SR 3843 Catsby Cir.
- 48. SR 3882 Hunt Farm Ln.
- 49. SR 3883 Shadow Moss Cir.

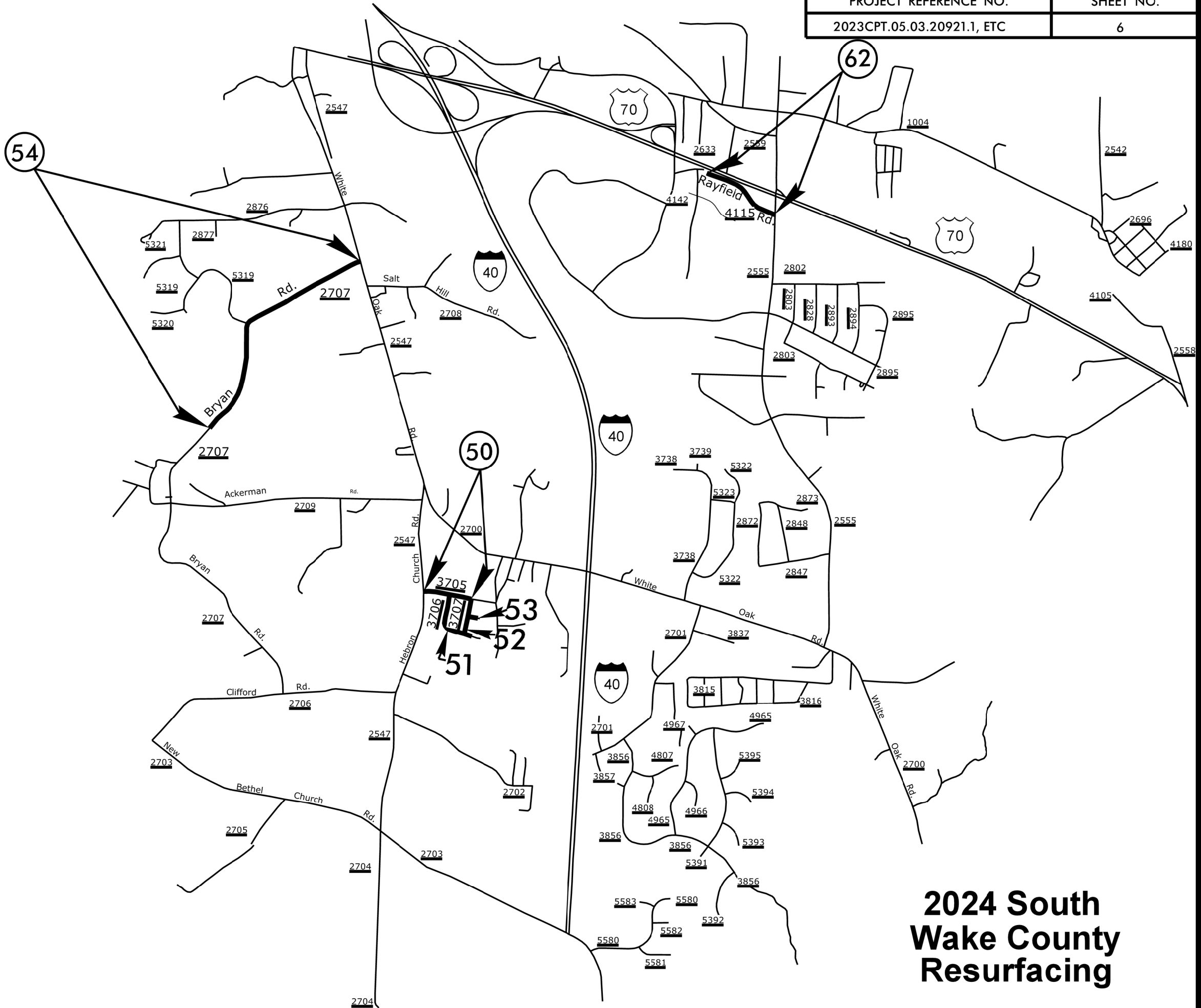


WAKE COUNTY

JOHNSTON COUNTY

2024 South Wake County Resurfacing

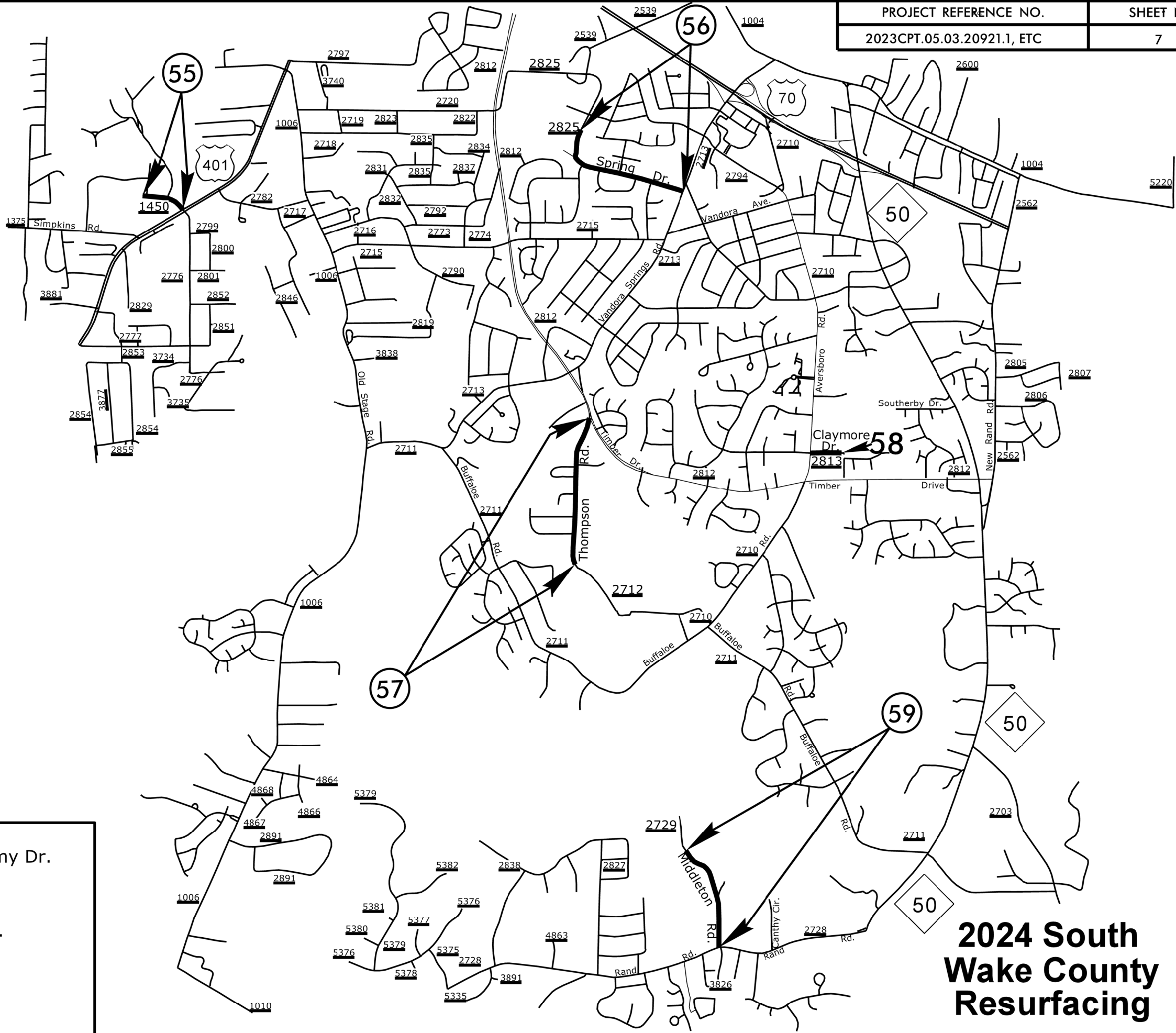
5/14/23
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- 50. SR 3705 Skyline Dr.
- 51. SR 3706 Fashion Ln.
- 52. SR 3707 Sundown Dr.
- 53. SR 3708 Amy Ct.
- 54. SR 2707 Bryan Rd.
- 62. SR 4115 Rayfield Rd.

2024 South Wake County Resurfacing

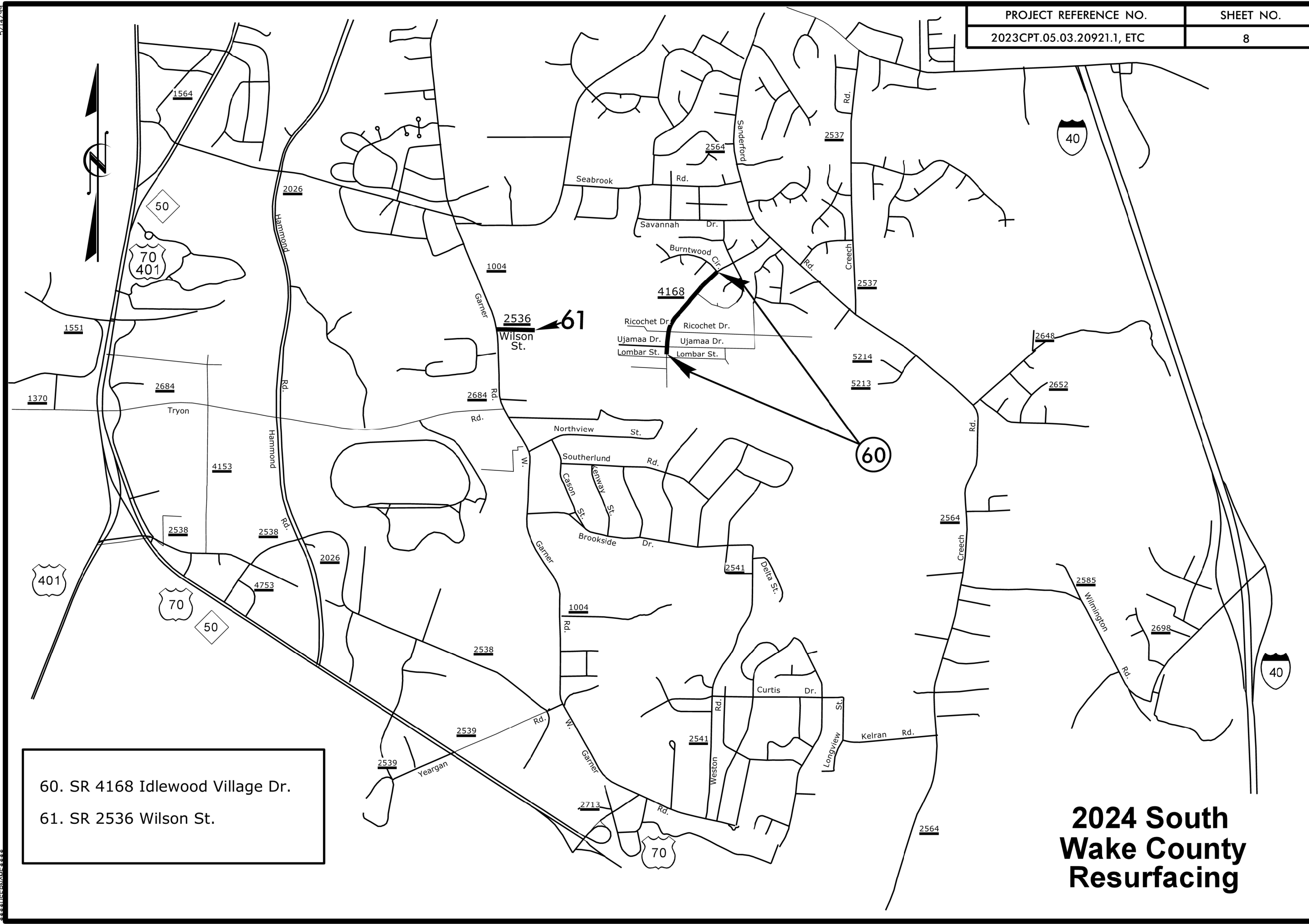
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CUSTOMER: WAKE COUNTY
PROJECT: 2023CPT.05.03.20921.1, ETC
SHEET: 6



- 55. SR. 1450 Wake Academy Dr.
- 56. SR 2825 Spring Dr.
- 57. SR 2712 Thompson Rd.
- 58. SR 2813 Claymore Dr.
- 59. SR 2729 Middleton Rd.

**2024 South
Wake County
Resurfacing**

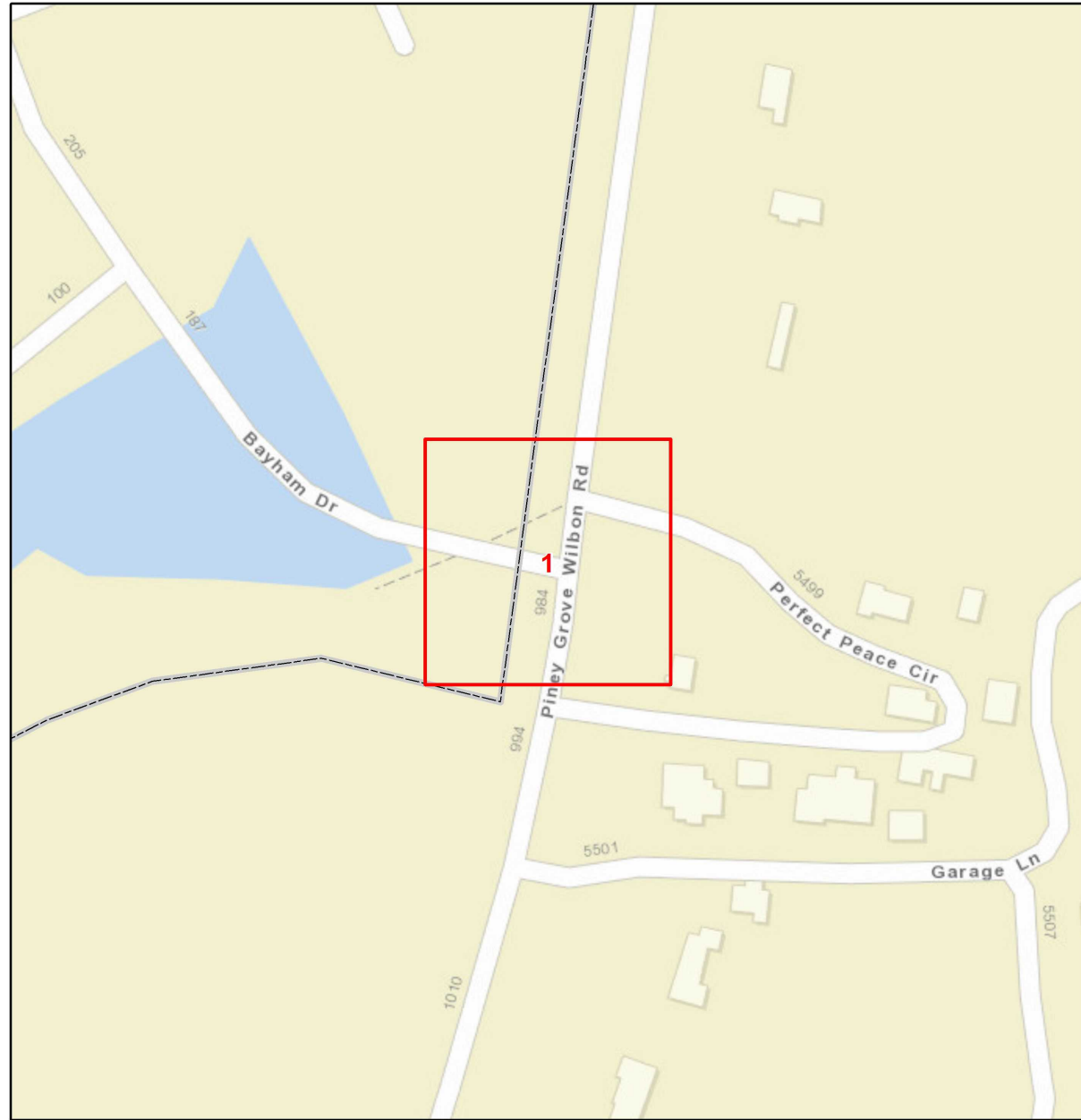
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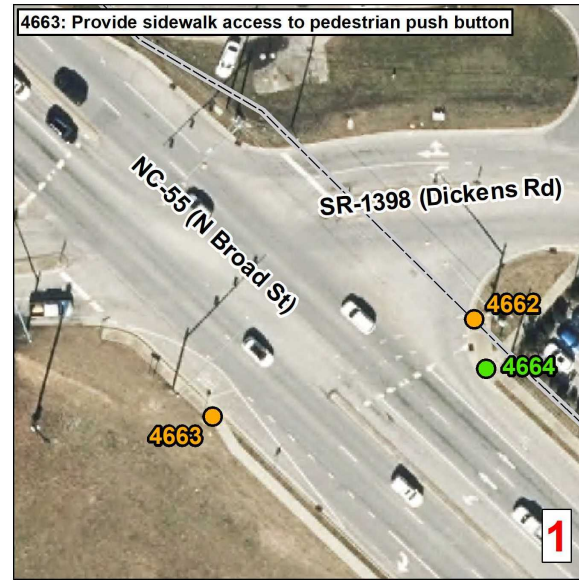
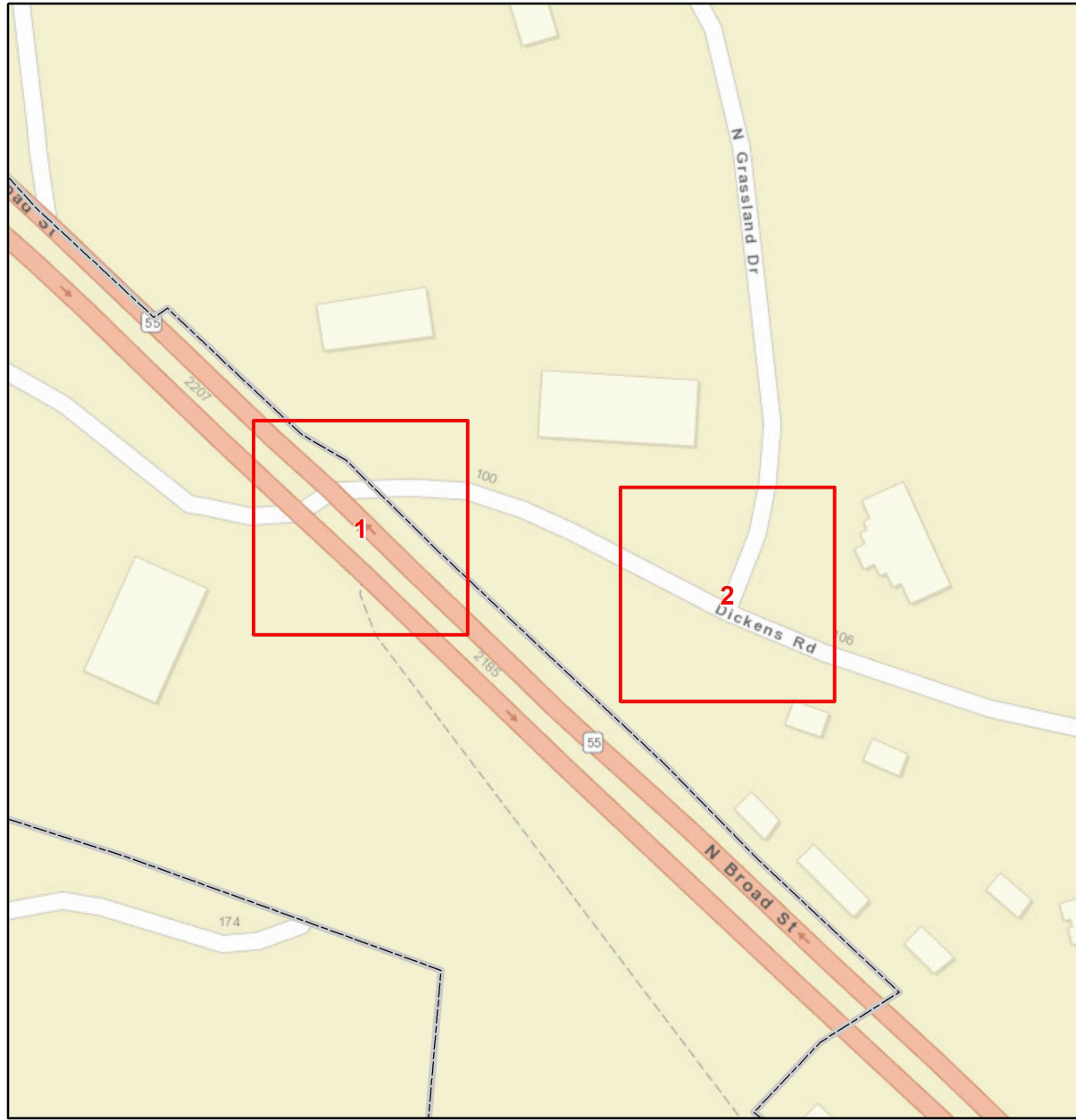
60. SR 4168 Idlewood Village Dr.
61. SR 2536 Wilson St.

2024 South Wake County Resurfacing

5/14/23
C:\TIME\2023\05\03\20921\1\2023CPT.05.03.20921.1\8



Curb Ramps To Be Repaired	
Retrofit	
Remove and Replace	
New Curb Ramp	
Remove Ramp	
Municipal Boundary	
NCHPO Historic Boundary (NR and LHD)	
2024 South WBS: 2023CPT.05.03.20921.1	
Piney Grove Wilbon From PVMT JT To NC 42	
	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


Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

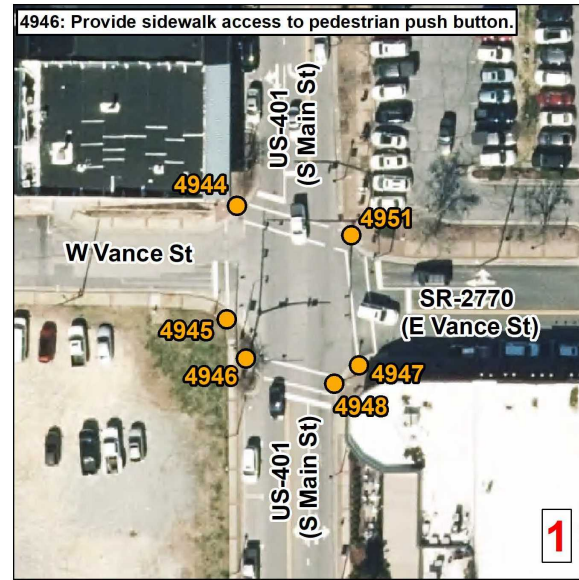
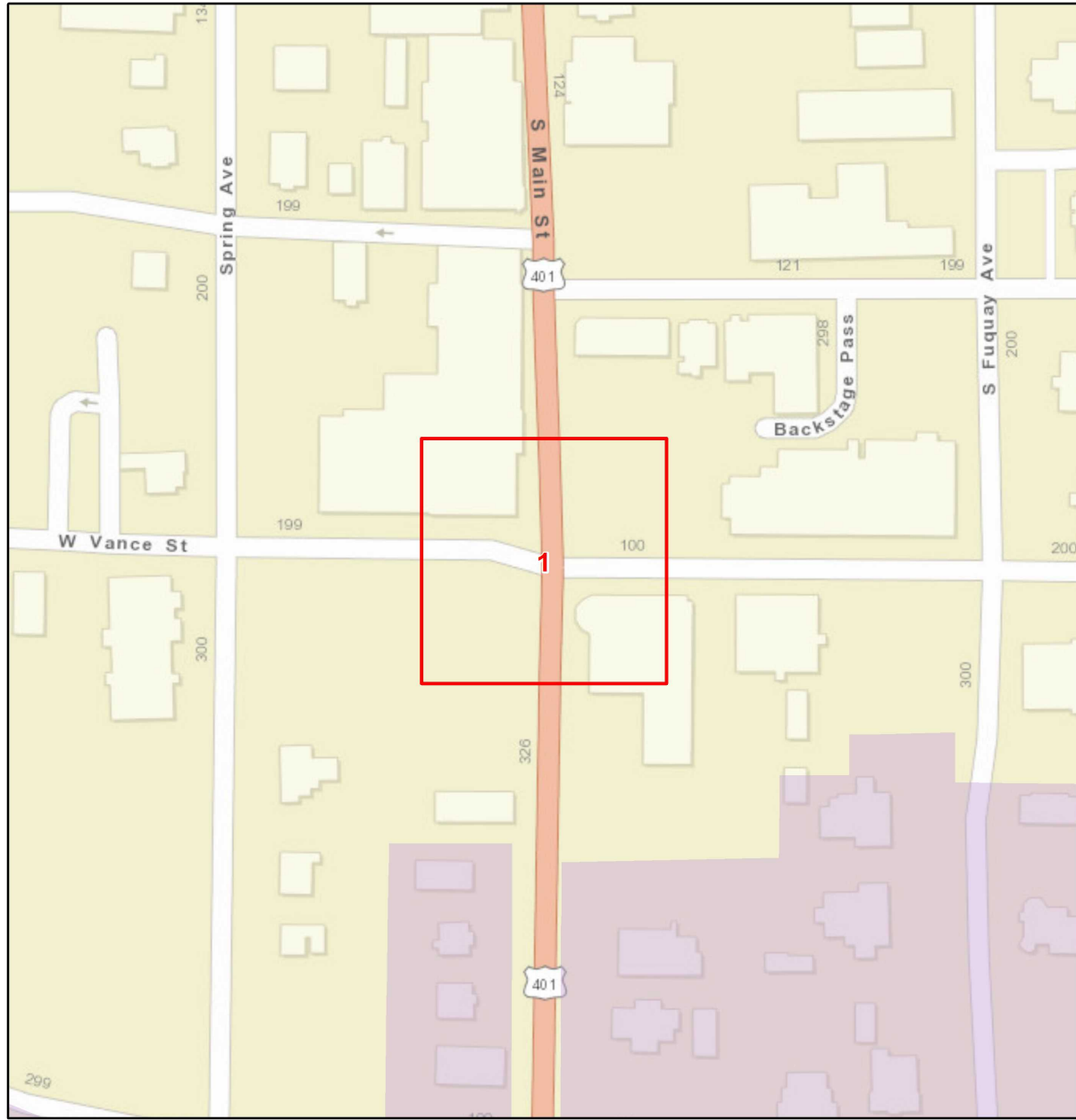


2024 South
WBS: 2023CPT.05.03.20921.1

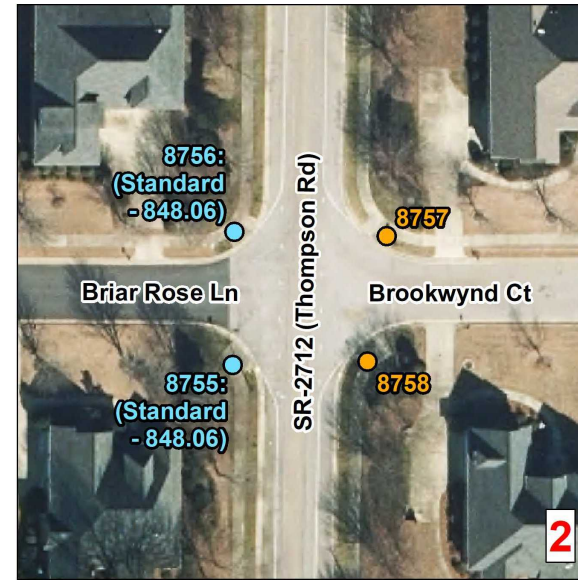
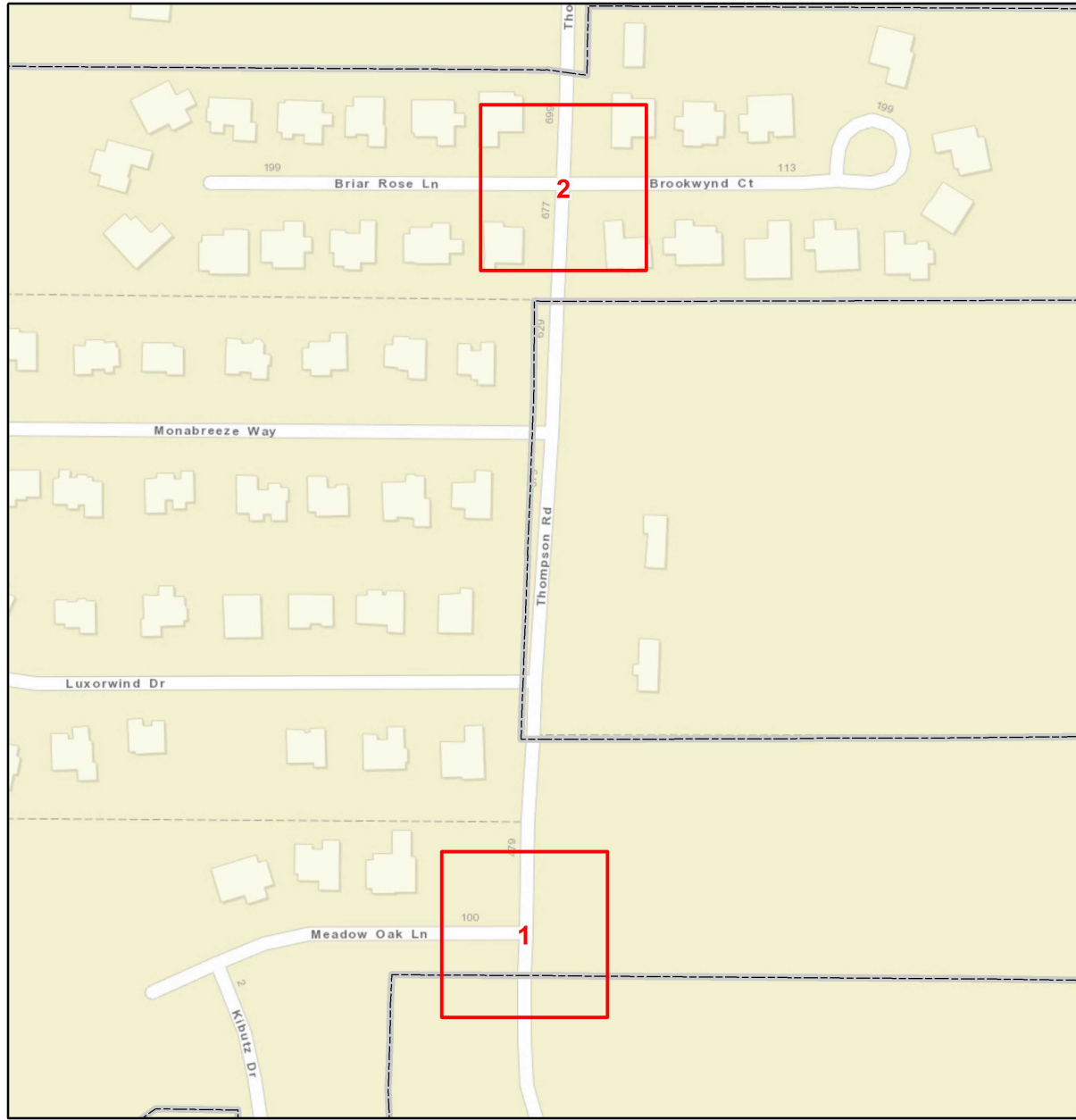
Dickens Rd
From SR 1399 To NC 55

 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	
	Municipal Boundary	
	NCHPO Historic Boundary (NR and LHD)	
2024 South WBS: 2023CPT.05.03.20921.1		
E Vance St From US 401 To Spring St		
		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


Municipal Boundary

NCHPO Historic Boundary (NR and LHD)



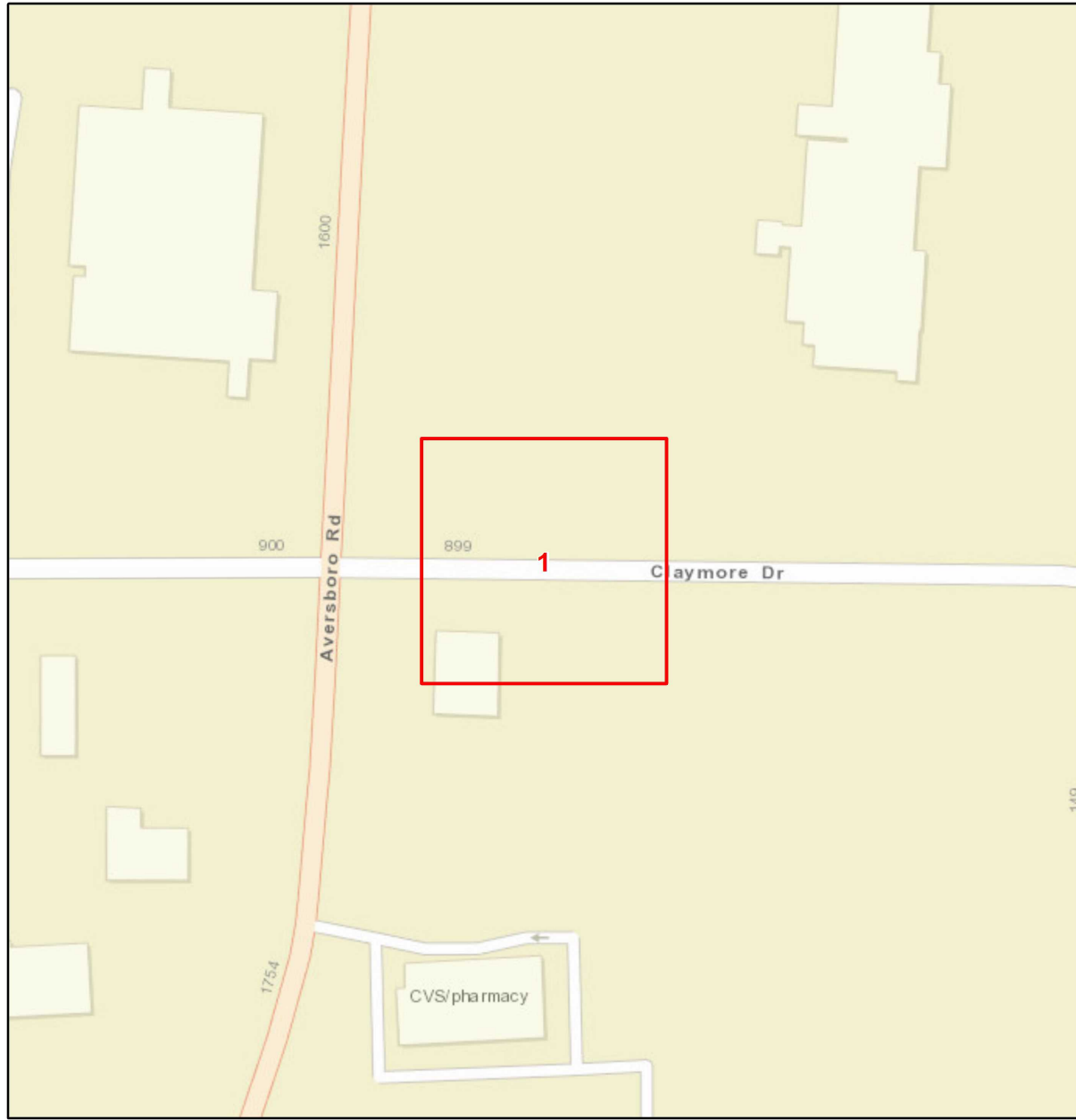
2024 South
WBS: 2023CPT.05.03.20921.1

Thompson Rd
From SR 2812 To End Maintenance



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

Municipal Boundary

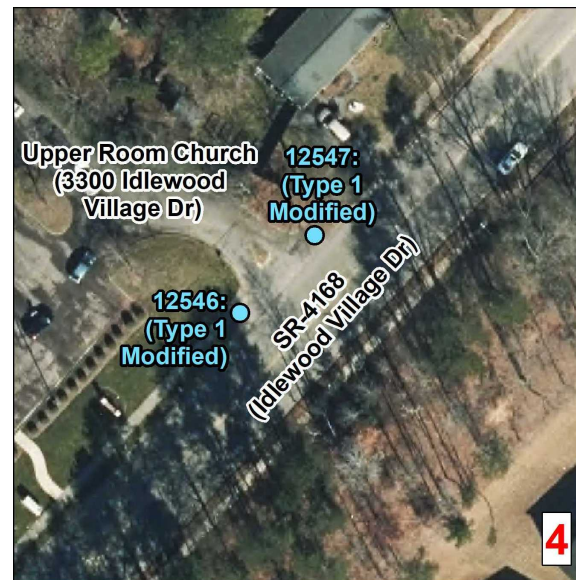
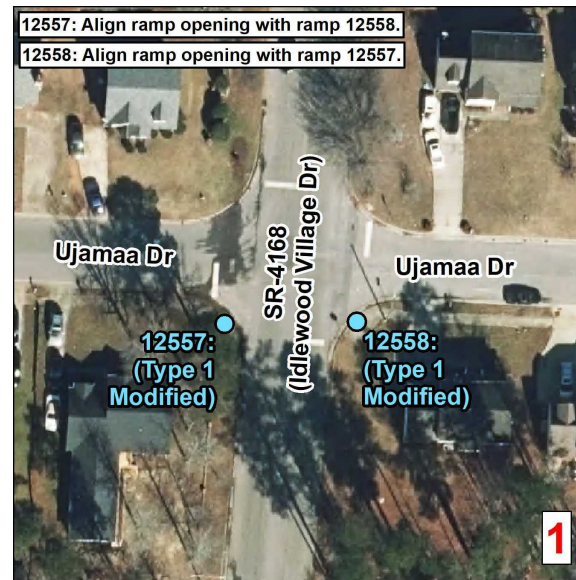
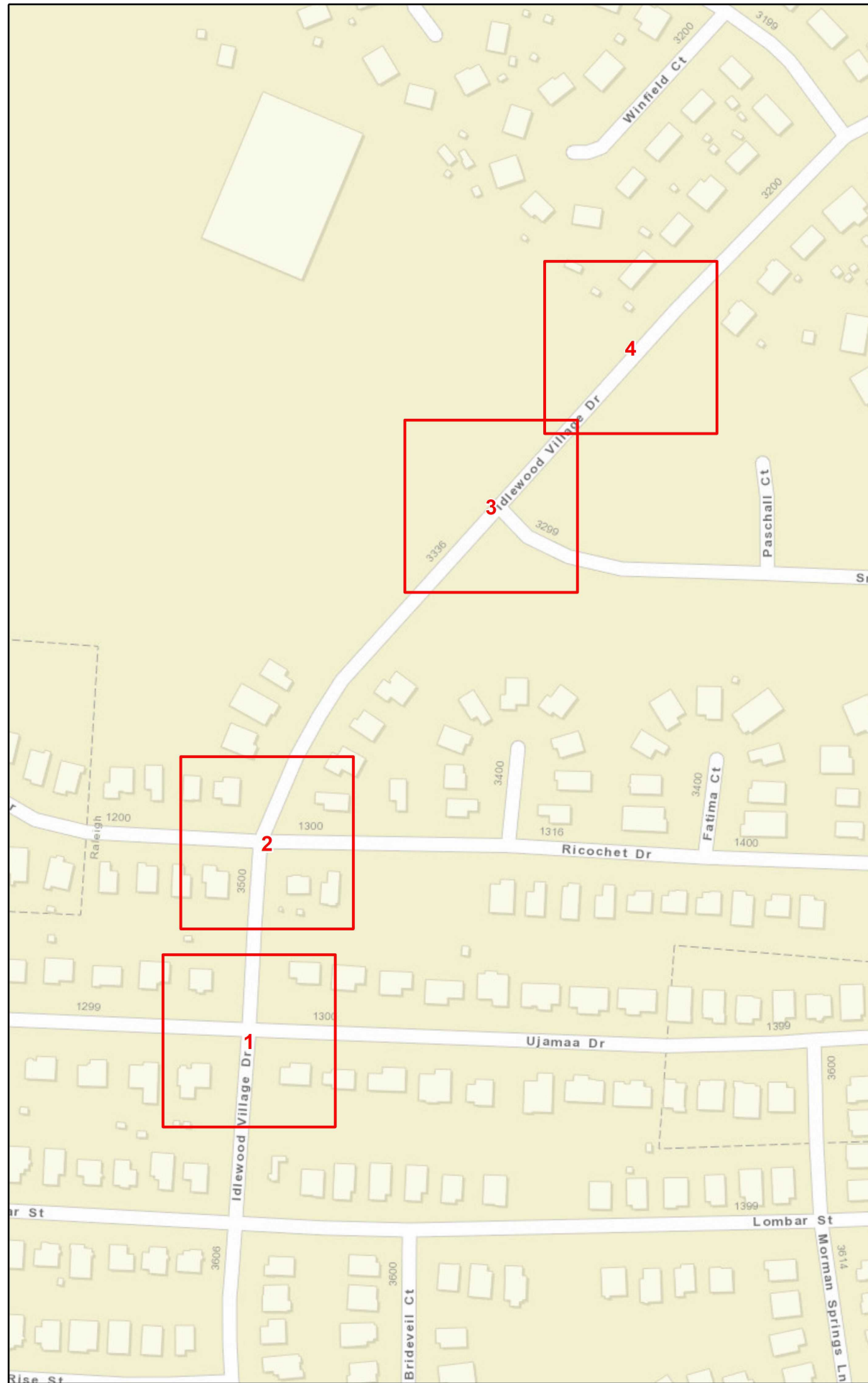
NCHPO Historic Boundary (NR and LHD)

2024 South
WBS: 2023CPT.05.03.20921.1

Claymore Dr
From SR 2710 To End Maintenance

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5

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



Curb Ramps To Be Repaired

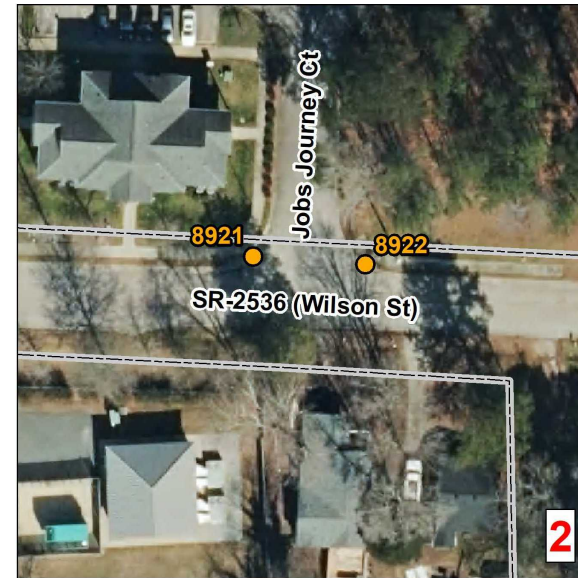
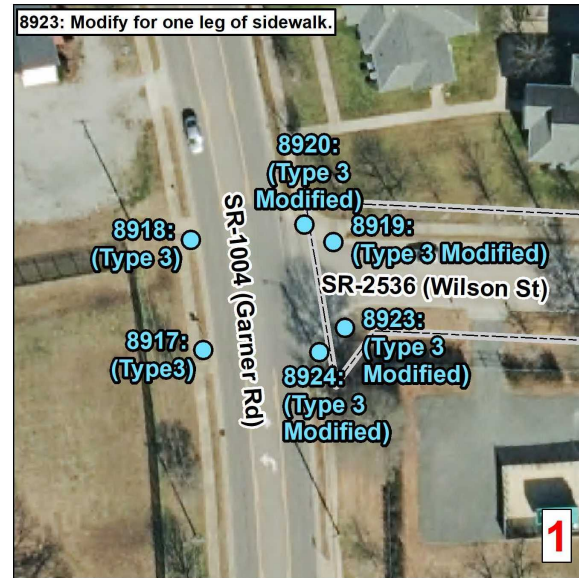
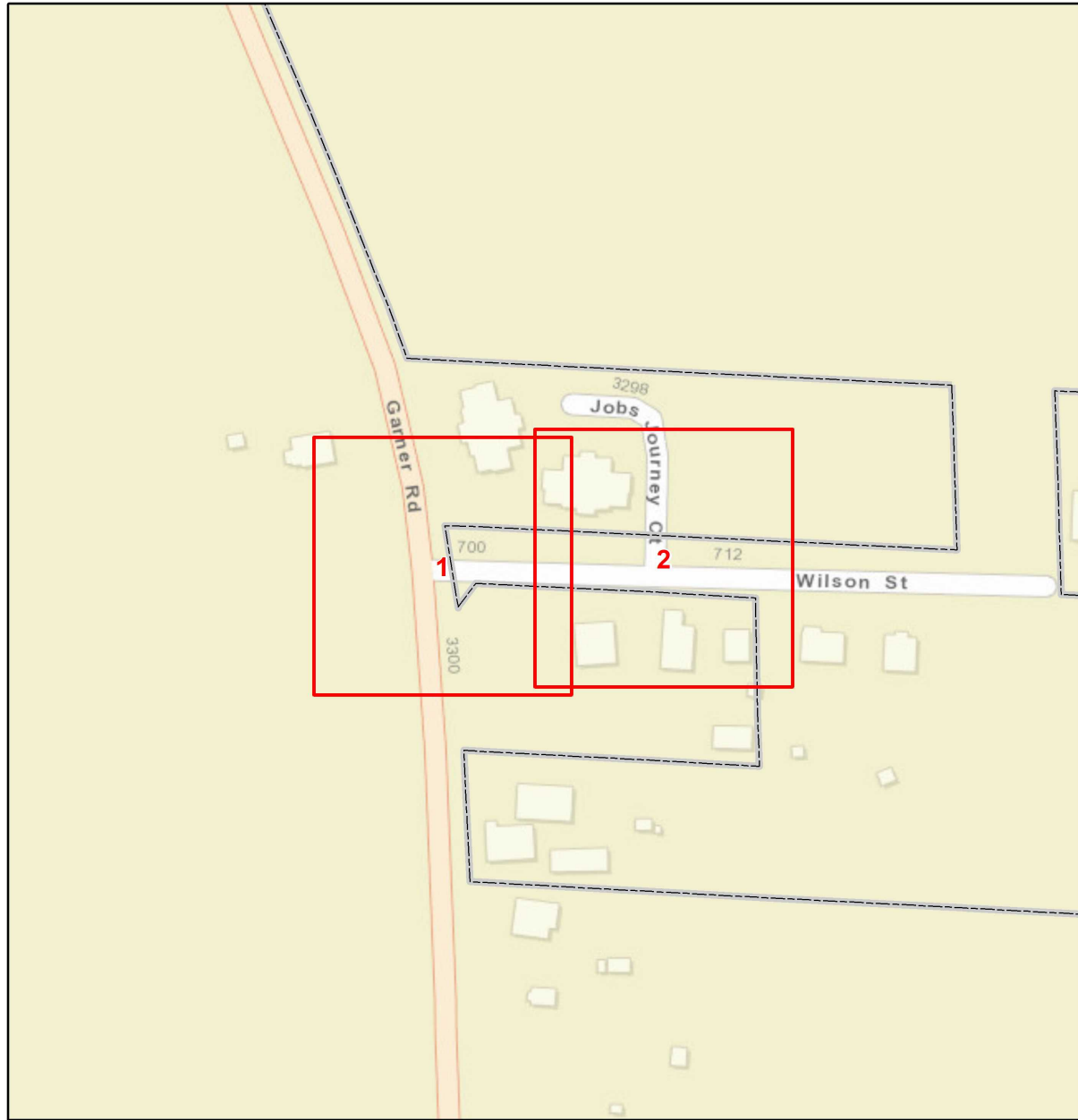
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

2024 South
WBS: 2023CPT.05.03.20921.1
Idlewood Village Dr
From Begin Maintenance
To End Maintenance

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

Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

2024 South
WBS: 2023CPT.05.03.20922.1

Wilson St
From SR 1004 To Dead End

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5

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

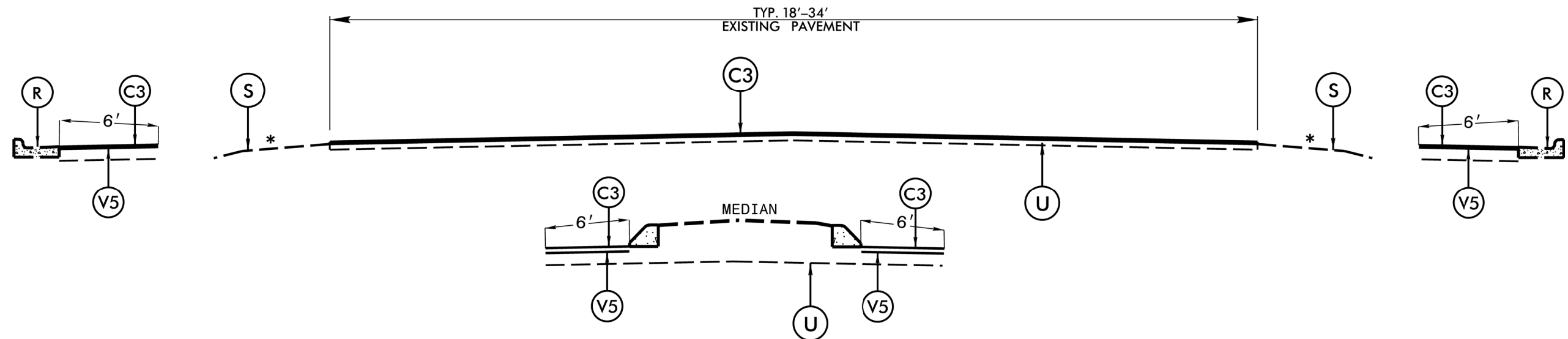
PAVEMENT SCHEDULE

WAKE COUNTY RESURFACING

PROJECT REFERENCE NO. 2023CPT 05.03.2022L ETC	SHEET NO. 16
Prepared in the Office of: 	

* VARIABLE OUTSIDE SHOULDER – PARTIAL C&G, PARTIAL EARTH SHOULDER

C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	V1	MILL ASPHALT PAVEMENT, 1½" DEPTH
C3	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	V2	MILL ASPHALT PAVEMENT, 2½" DEPTH
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	V3	MILL ASPHALT PAVEMENT, 0'-1" DEPTH
R	EXISTING CURB AND GUTTER	V4	MILL ASPHALT PAVEMENT, 0'-1¼" DEPTH
S	SHOULDER GRADING, ASB REQUIRED	V5	MILL ASPHALT PAVEMENT, 0'-1½" DEPTH



TYPICAL SECTION NO. 1

FULL DEPTH PATCHING AND RESURFACE S9.5B
 MAP NOS. 1, 3-4, 8-11, 16, 23-24, 28, 30-31, 41-47, 50-55

**** SHOULDER GRADING ON MAPS 1-3, 8, 10, 54-55 ONLY ****

MAP 8 SR 1191 (TECHNOLOGY DR.)
 0-1½" MILLING AT CONCRETE ISLAND IN MEDIAN
 AT APPROXIMATELY STA 0+00 TO STA 0+81.

MAP 30 SR 3743 (MARY MARVIN TRL.)
 0-1½" MILLING AT CONCRETE ISLAND IN MEDIAN
 AT APPROXIMATELY STA 0+11 TO STA 0+70.

0-1½" MILLING AT CURB & GUTTER
 AT APPROXIMATELY STA 0+11 TO STA 0+70.

MAP 41 SR 3810 (S. DOWNS DR.)
 0-1½" MILLING AT CONCRETE ISLAND IN MEDIAN
 AT APPROXIMATELY STA 0+25 TO STA 1+17.

0-1½" MILLING AT CURB & GUTTER
 AT APPROXIMATELY STA 0+00 TO STA 1+17.

MAP 1 SR 1101 (PINEY GROVE WILBON RD.)
 0-1½" MILLING AT CURB & GUTTER
 AT APPROXIMATELY STA 4+25 TO STA 12+75.

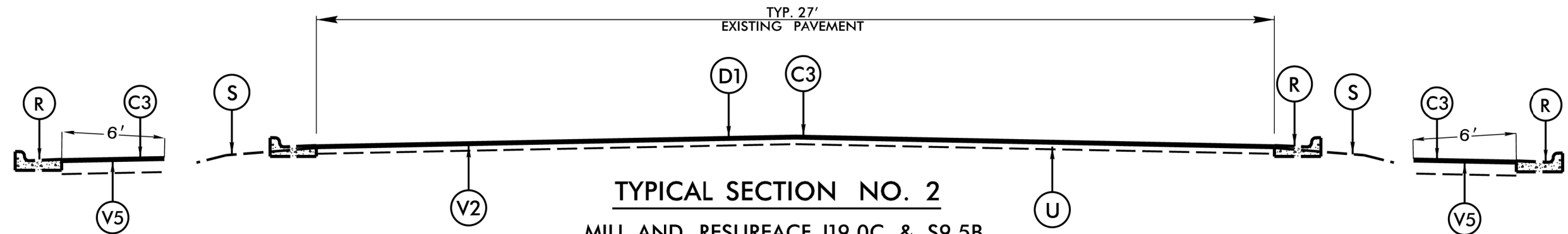
MAP 3 SR 1398 (DICKENS RD.)
 0-1½" MILLING AT CURB & GUTTER
 AT APPROXIMATELY STA 37+90 TO STA 38+82.

MAP 9 SR 1202 (THIRD ST.)
 0-1½" MILLING AT CURB & GUTTER
 AT APPROXIMATELY STA 3+69 TO STA 6+12 LT
 AND STA 6+12 TO STA 7+54 RT.

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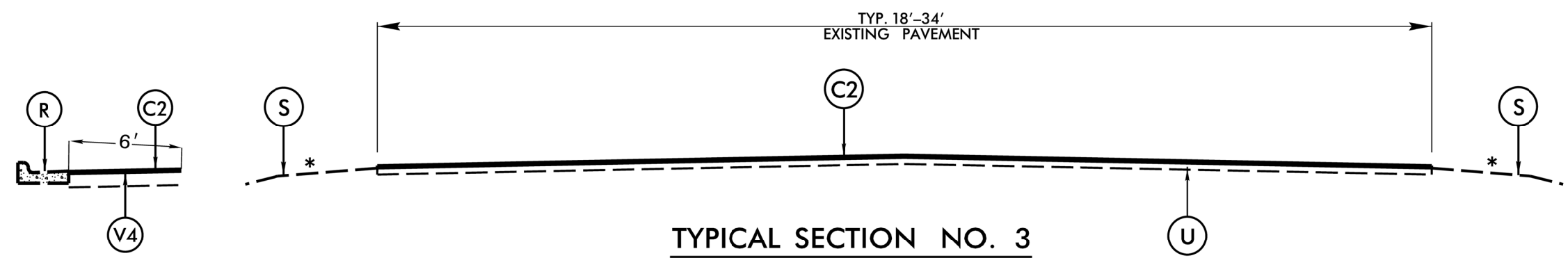
PAVEMENT SCHEDULE	
C1	1" S9.5B
C2	1 1/4" S9.5B
C3	1 1/2" S9.5B
D1	2 1/2" I19.0C
R	EXIST. C&G
S	SHLD GRADING
U	EXIST. PAVEMENT
V1	1 1/2" MILLING
V2	2 1/2" MILLING
V3	0-1" MILLING
V4	0-1 1/4" MILLING
V5	0-1 1/2" MILLING

* VARIABLE OUTSIDE SHOULDER - PARTIAL C&G, PARTIAL EARTH SHOULDER



TYPICAL SECTION NO. 2
 MILL AND RESURFACE I19.0C & S9.5B
 MAP NO. 2
 MAP 2 SR 1101 (PINEY GROVE WILBORN RD.)
 MILL MAP AT 2 1/2" OF DEPTH
 PLACE 2 1/2" OF I19.0C.
 THEN PLACE 1 1/2" S9.5B.

*** ONLY VARIABLE DEPTH MILLING AT CURB AND GUTTER AND 1 1/2" S9.5B OVERLAY AT APPROXIMATELY STA 12+00 TO STA 13+95. NO I19.0C IS TO BE PLACED IN THE 195' SECTION AND NO ROADWAY MILLING ***



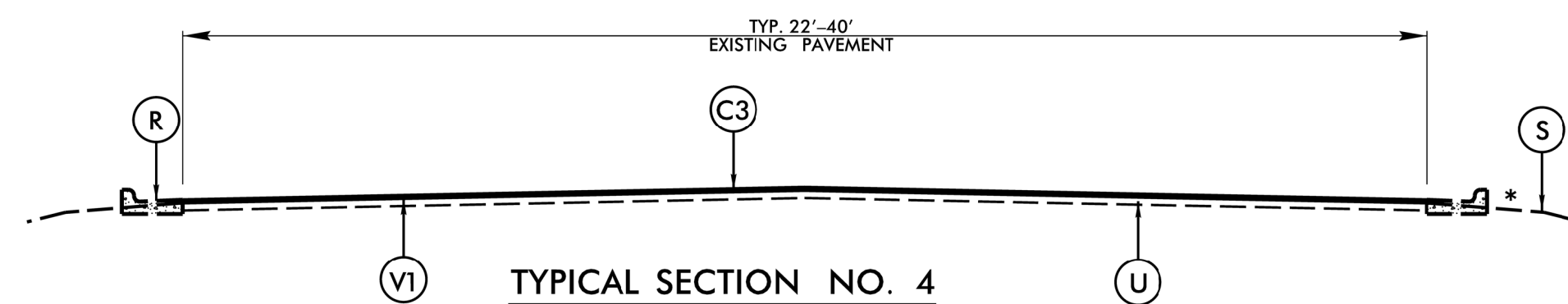
TYPICAL SECTION NO. 3
 FULL DEPTH PATCHING AND RESURFACE S9.5B
 MAP NOS. 6-7, 12-15, 17-22, 25-27, 29, 32-40, 48-49, 57, 59

**** SHOULDER GRADING ON MAPS 6 & 57 ONLY ****

MAP 57 SR 2712 (THOMPSON RD.)
 0-1 1/4" MILLING AT CURB & GUTTER
 AT APPROXIMATELY STA 0+00 TO STA 28+55 RT,
 STA 0+00 TO STA 0+40 LT, STA 14+25 TO STA 18+60 LT.

PAVEMENT SCHEDULE	
C1	1" S9.5B
C2	1¼" S9.5B
C3	1½" S9.5B
D1	2½" I19.0C
R	EXIST. C&G
S	SHLD GRADING
U	EXIST. PAVEMENT
V1	1½" MILLING
V2	4" MILLING
V3	0-1" MILLING
V4	0-1¼" MILLING
V5	0-1½" MILLING

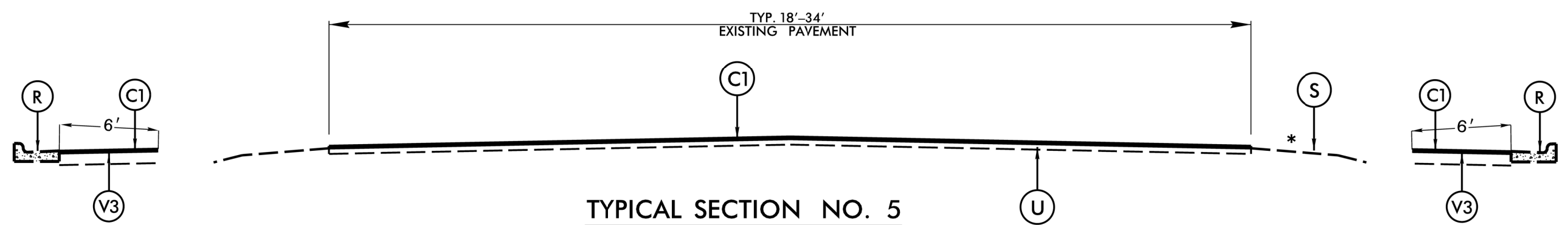
* VARIABLE OUTSIDE SHOULDER – PARTIAL C&G, PARTIAL EARTH SHOULDER



TYPICAL SECTION NO. 4

MILL AND RESURFACE S9.5B
MAP NOS. 5, 56, 58, 60

**** SHOULDER GRADING ON MAP 5 ONLY ****



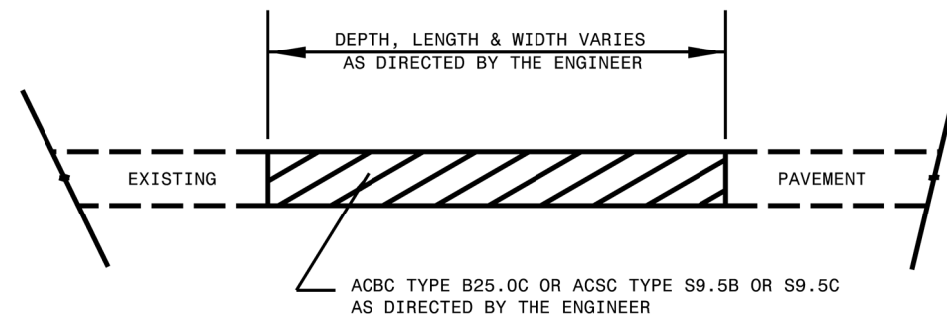
TYPICAL SECTION NO. 5

RESURFACE S9.5B
MAP NOS. 61-62

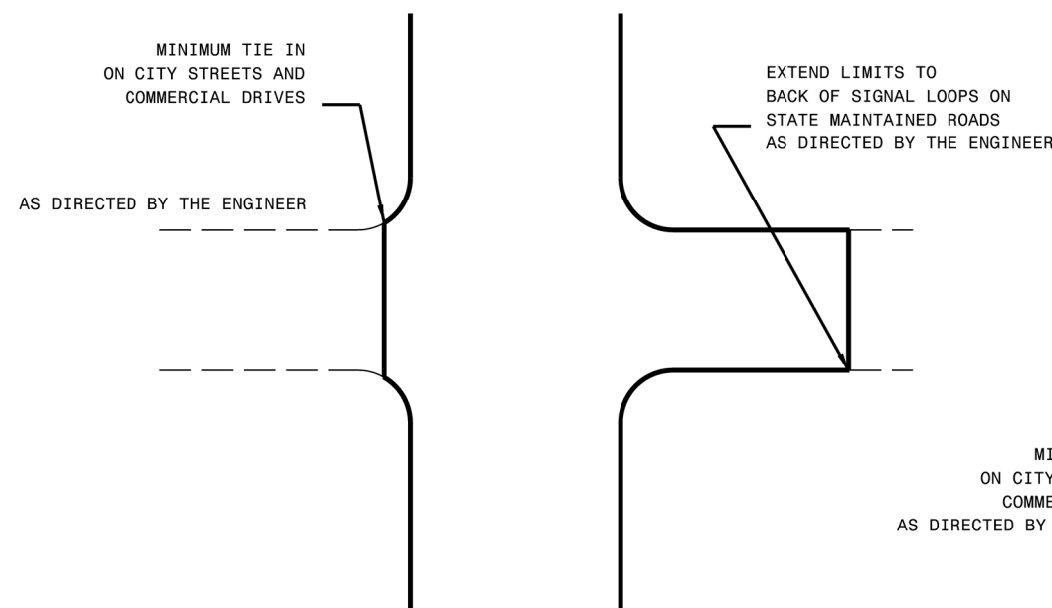
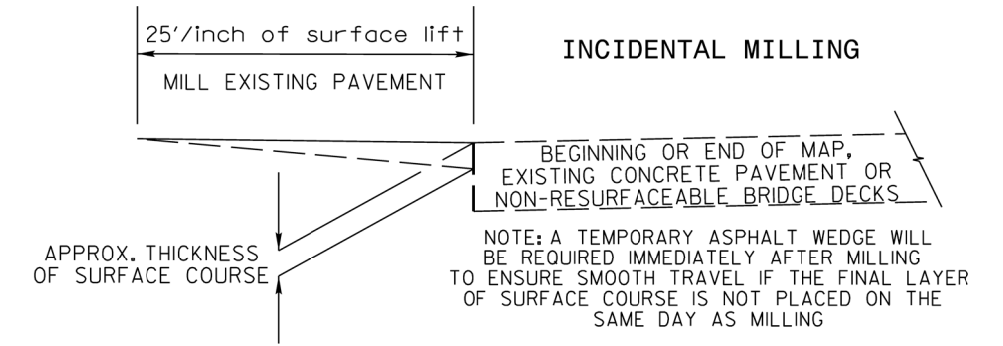
**** SHOULDER GRADING ON MAP 62 ONLY ****

MAP 60 SR 4168 (IDLEWOOD VILLAGE DR.)
0-1" MILLING AT CURB & GUTTER
AT APPROXIMATELY STA 0+00 TO STA 20+40.

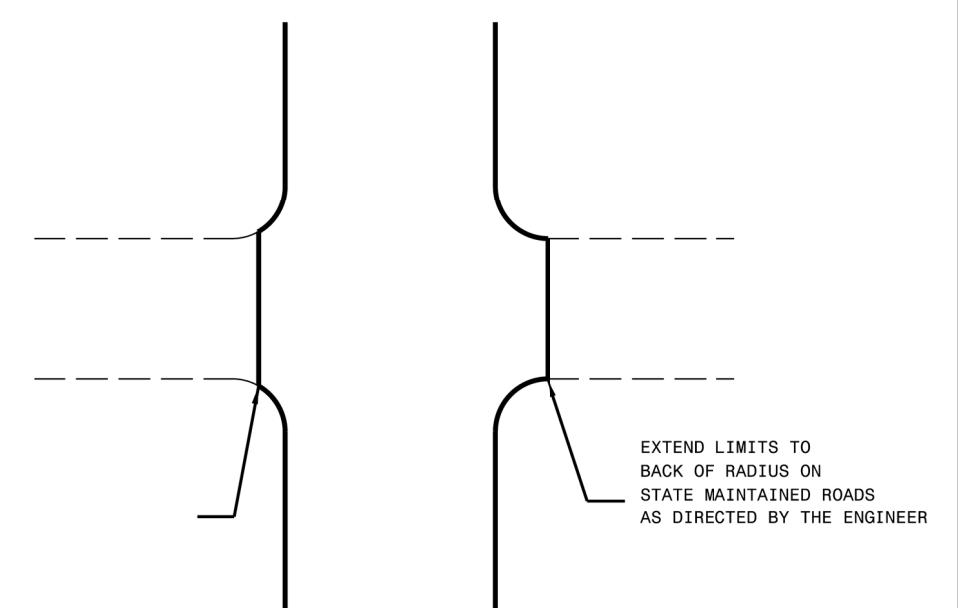
MAP 61 SR 2536 (WILSON ST.)
0-1" MILLING AT CURB & GUTTER
AT APPROXIMATELY STA 0+00 TO STA 3+70 LT
AND STA 0+00 TO STA 1+10 RT.



PATCHING EXISTING PAVEMENT
MILLING TO BE PERFORMED PRIOR TO PATCHING

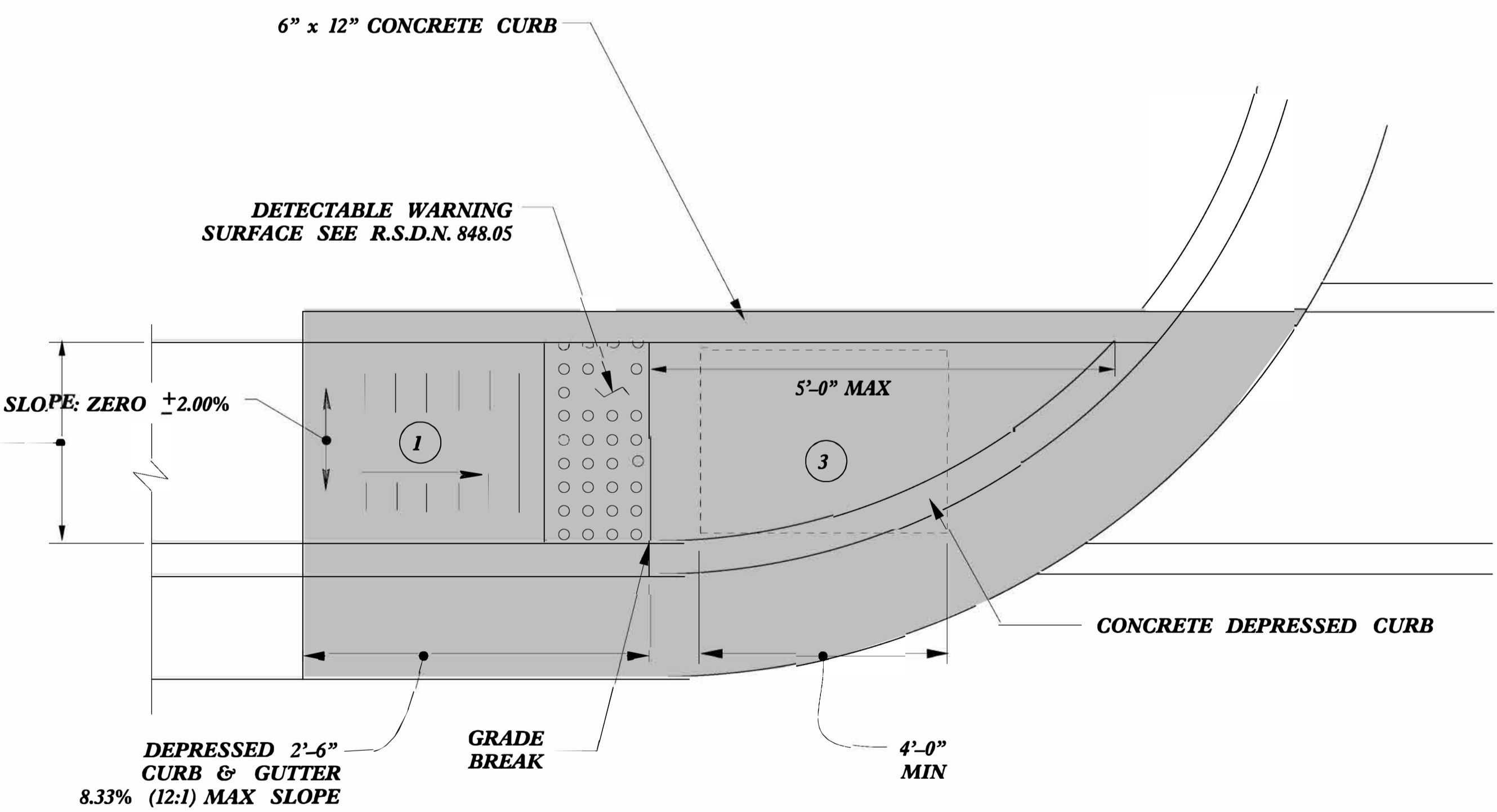
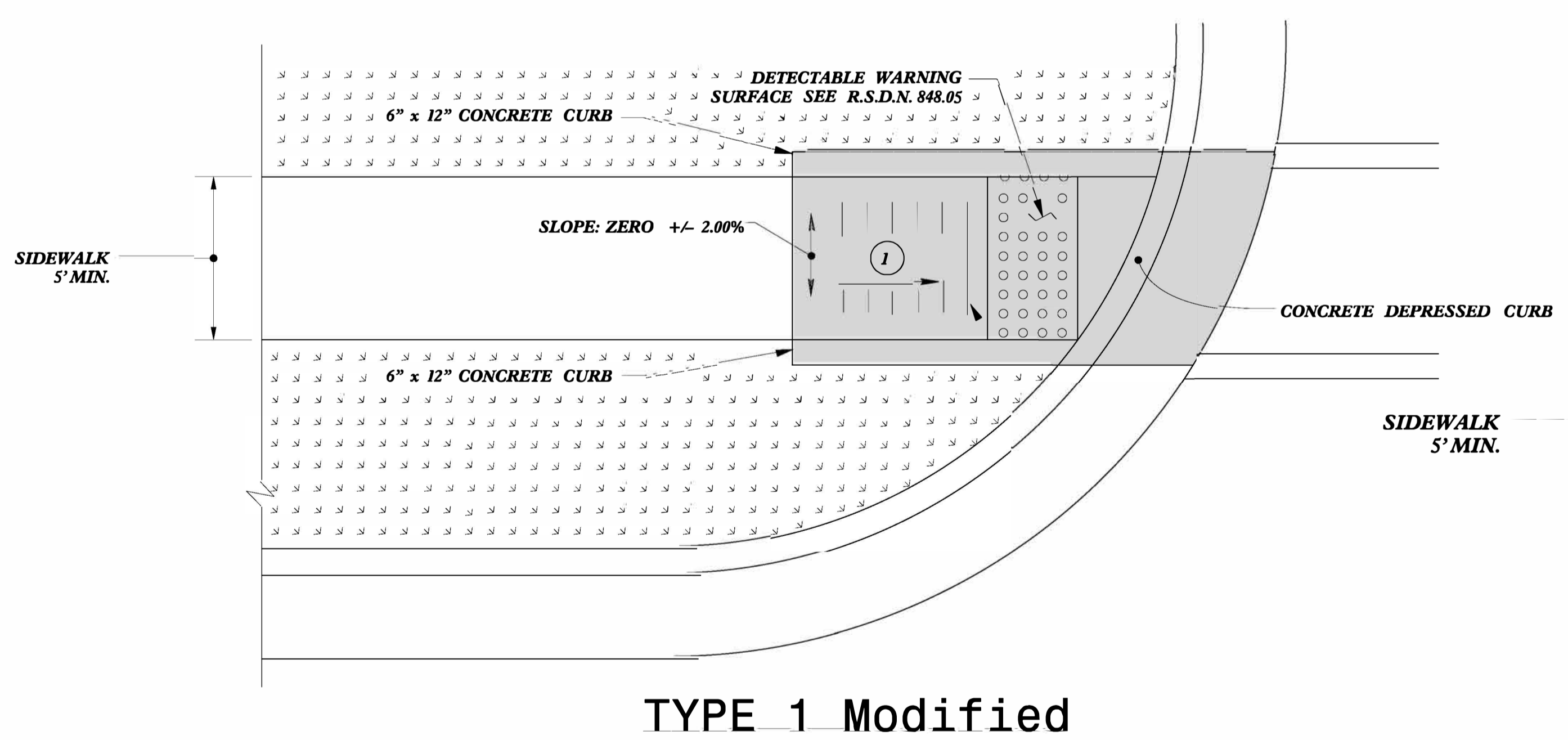
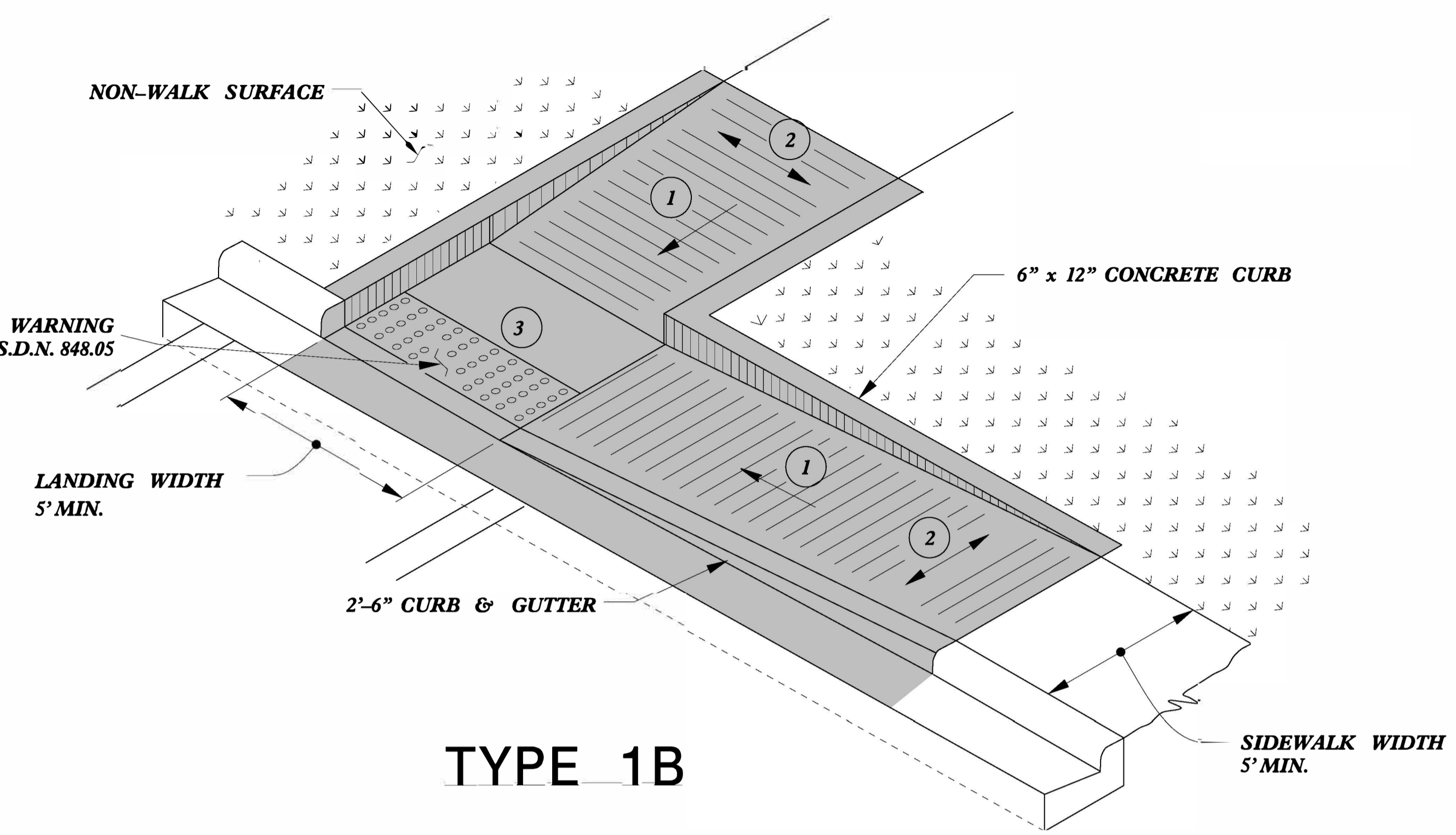
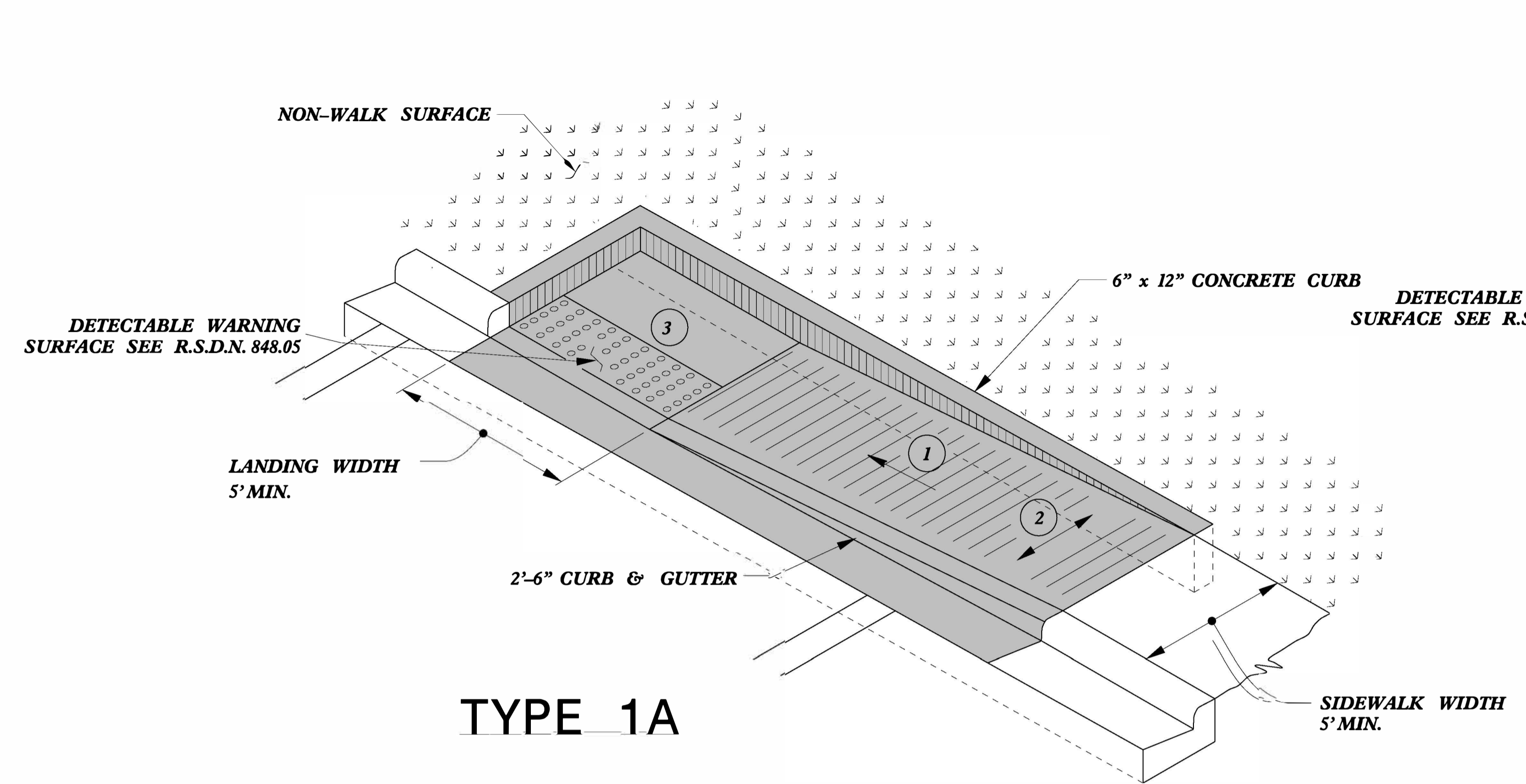


DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES



DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

5/14/99



- 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

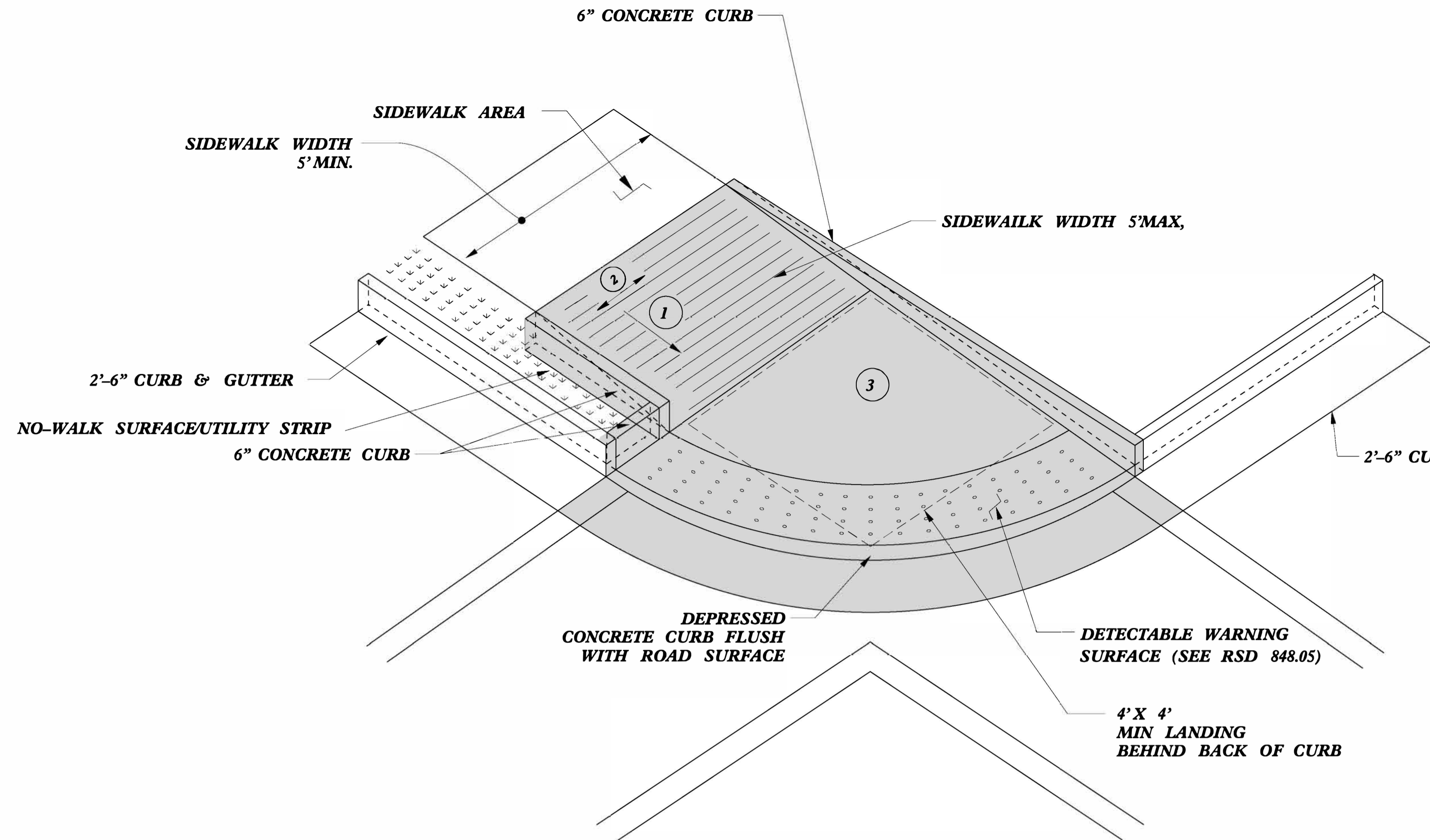
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

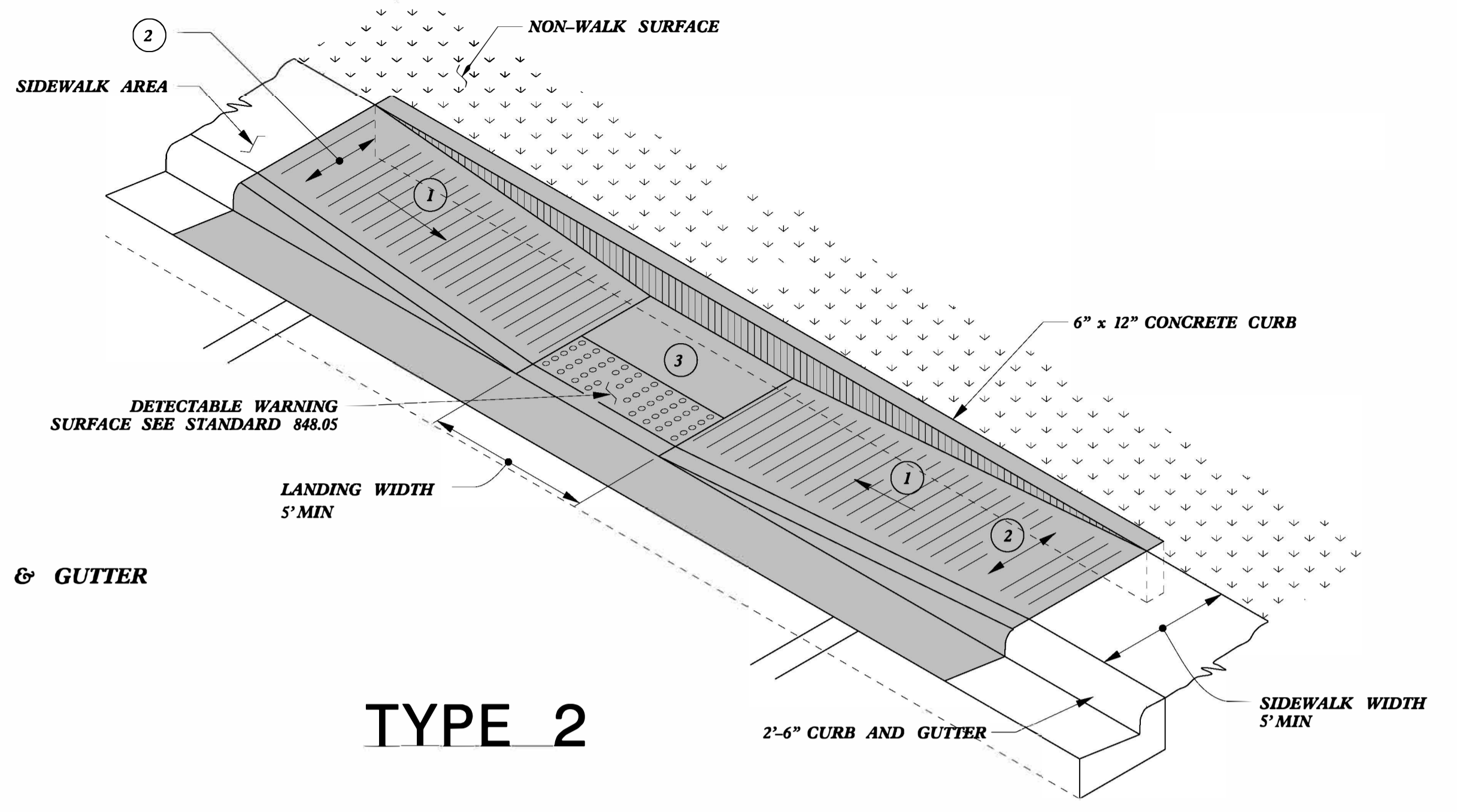
**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS
Directional Ramps

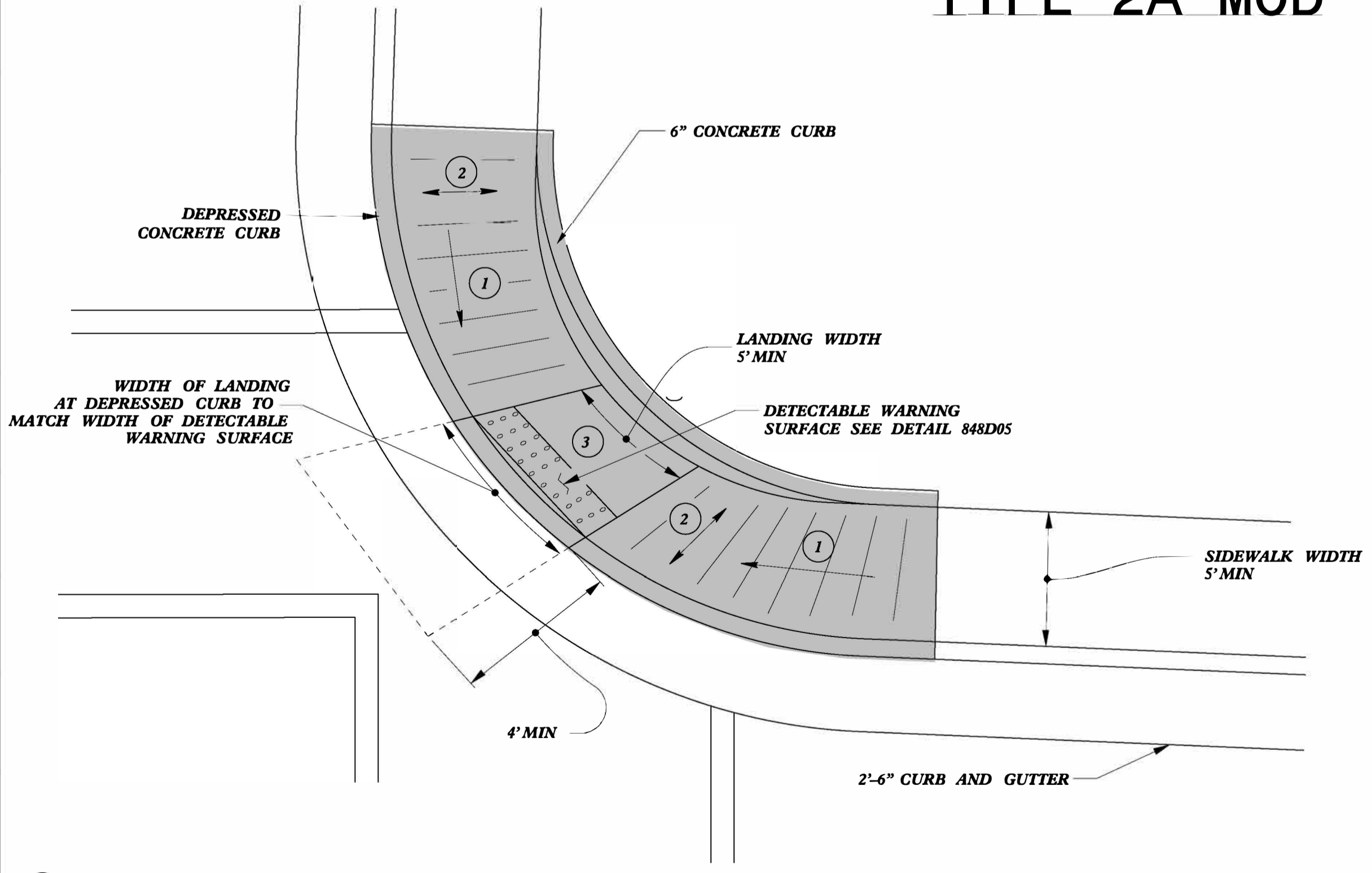
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 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
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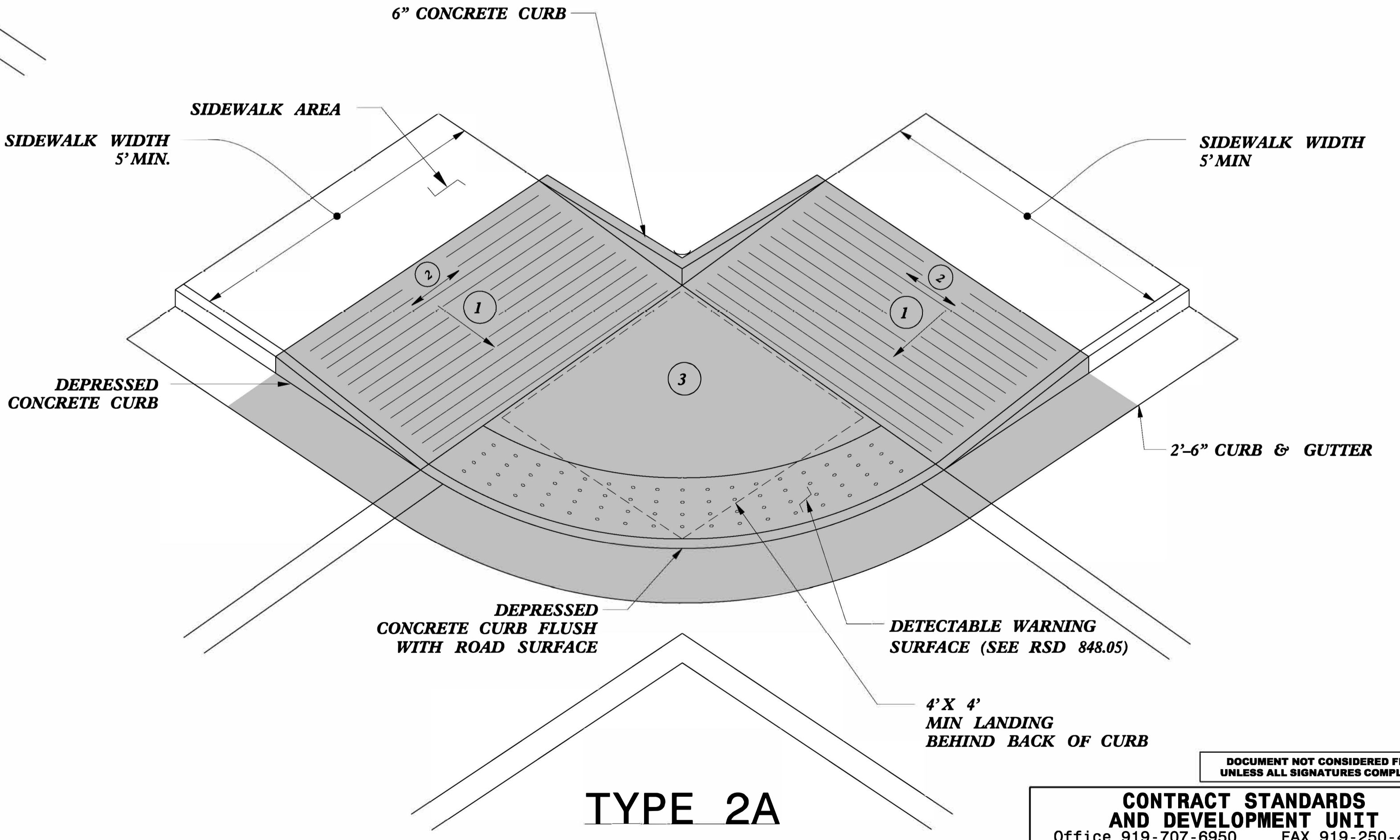
TYPE 2A MOD



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

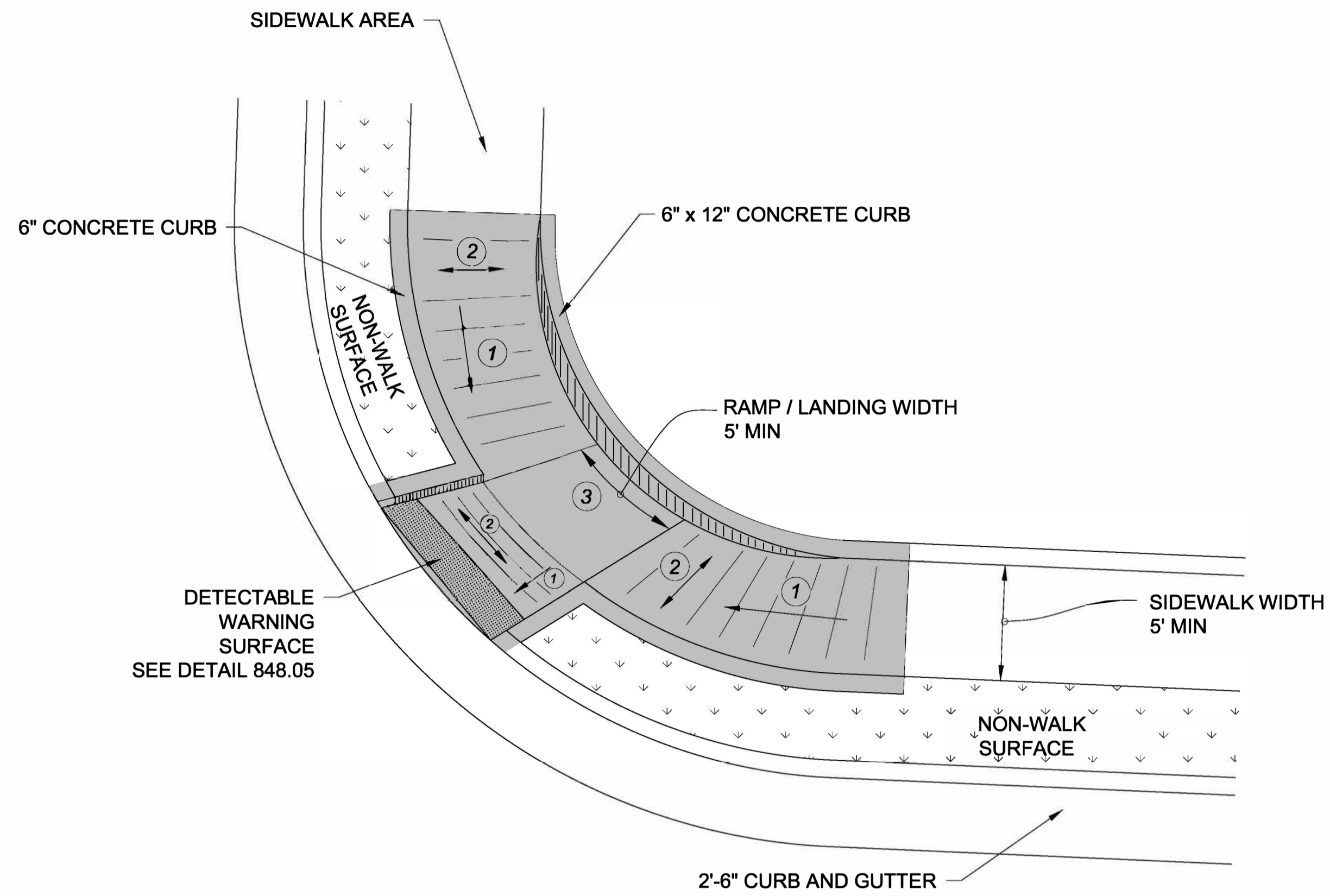
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

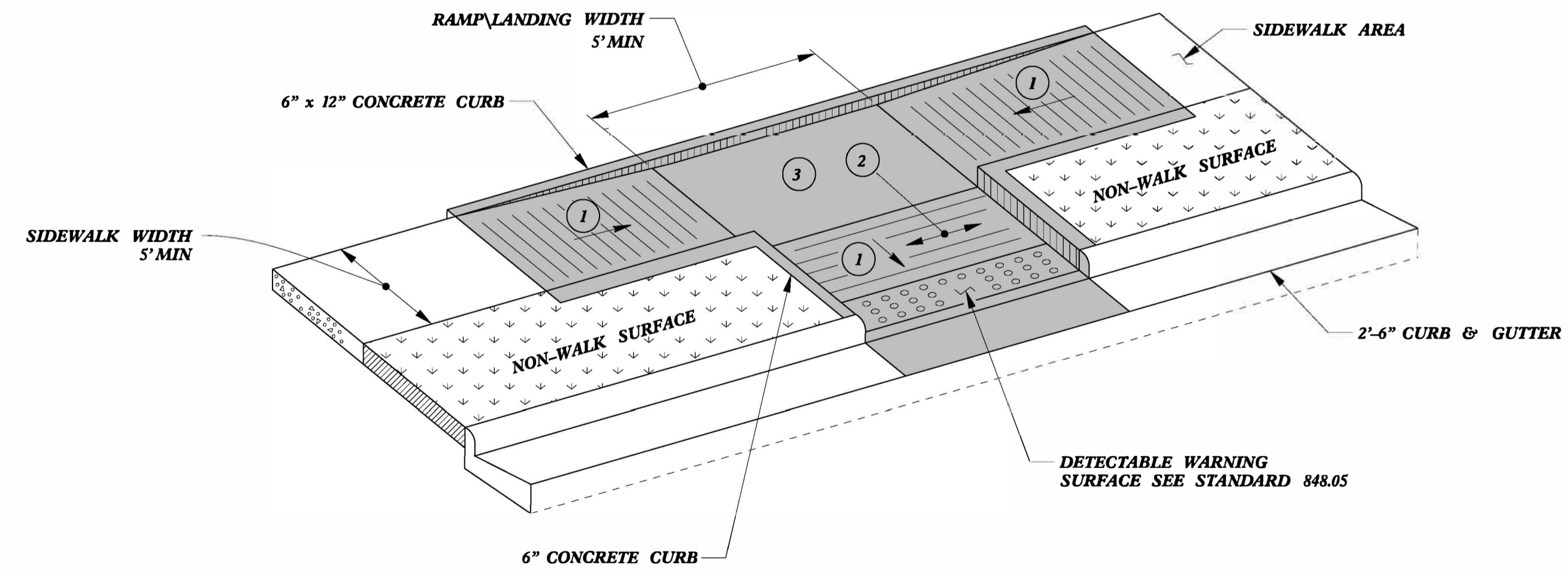
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5/14/99
 CURB RAMPS
 C:\T\M\05\03\20921\1\STD\2012CurbRamp\CurbRampDetails.dgn

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.

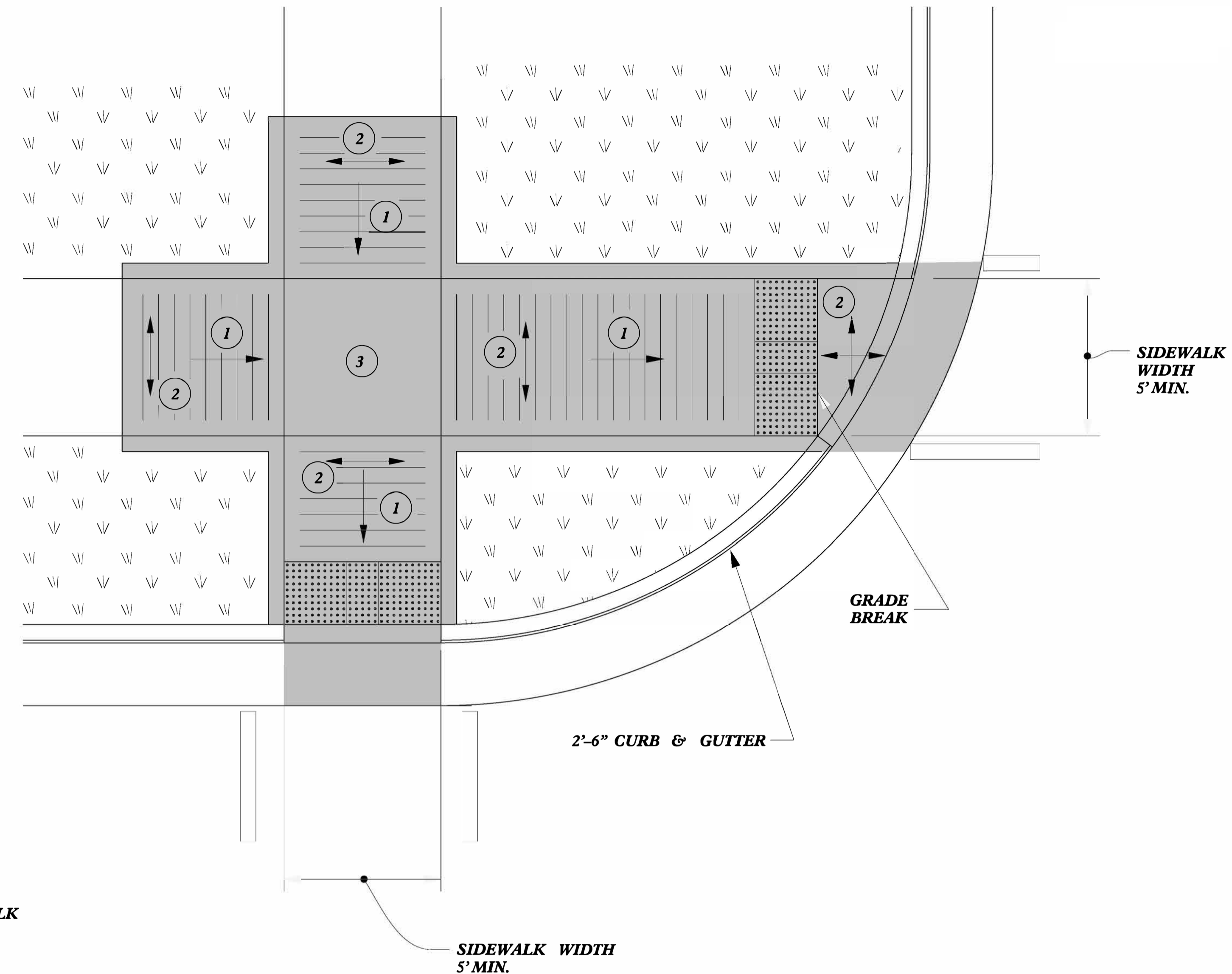
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

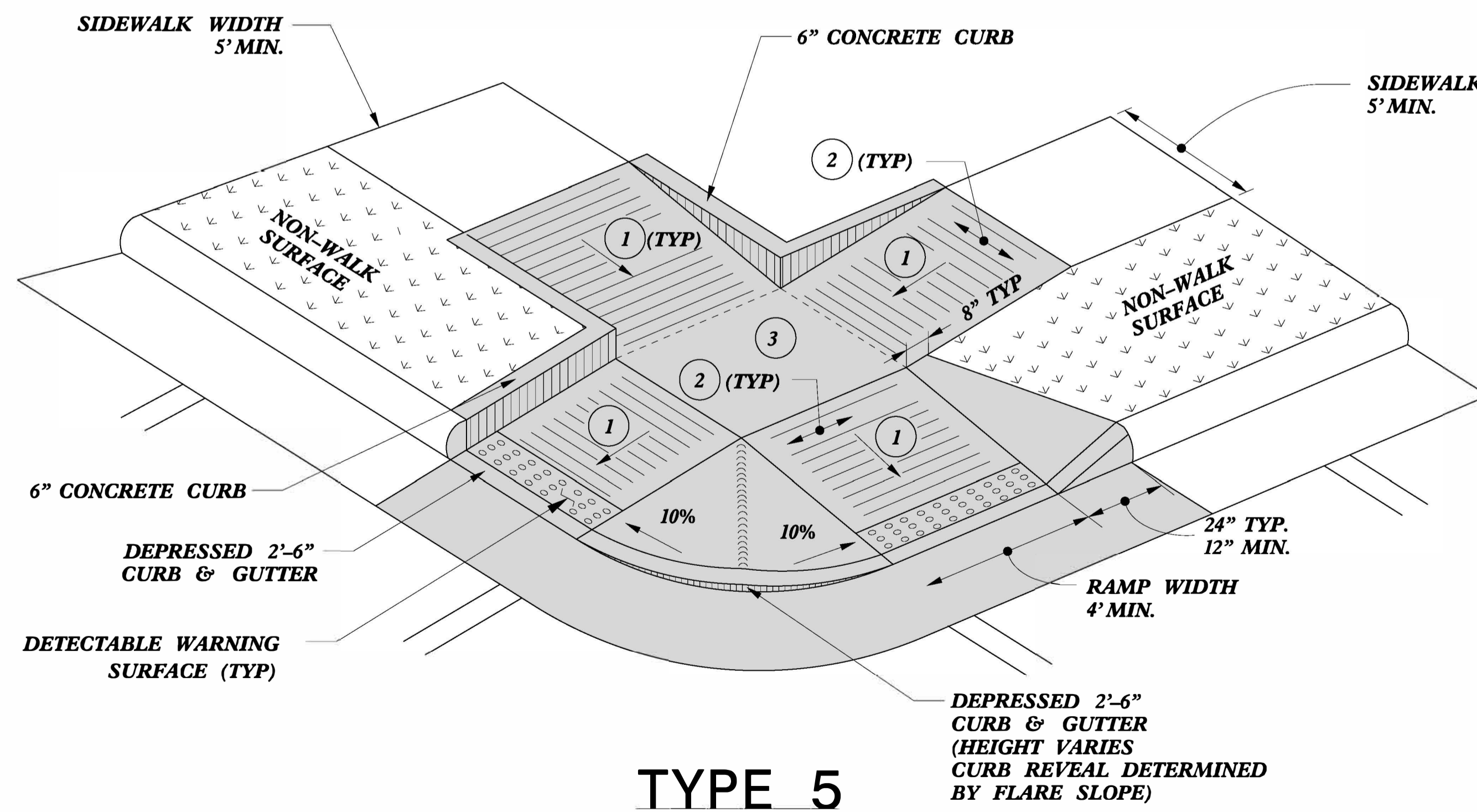
CURB RAMPS

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

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



TYPE 5A



TYPE 5

- 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.

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

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

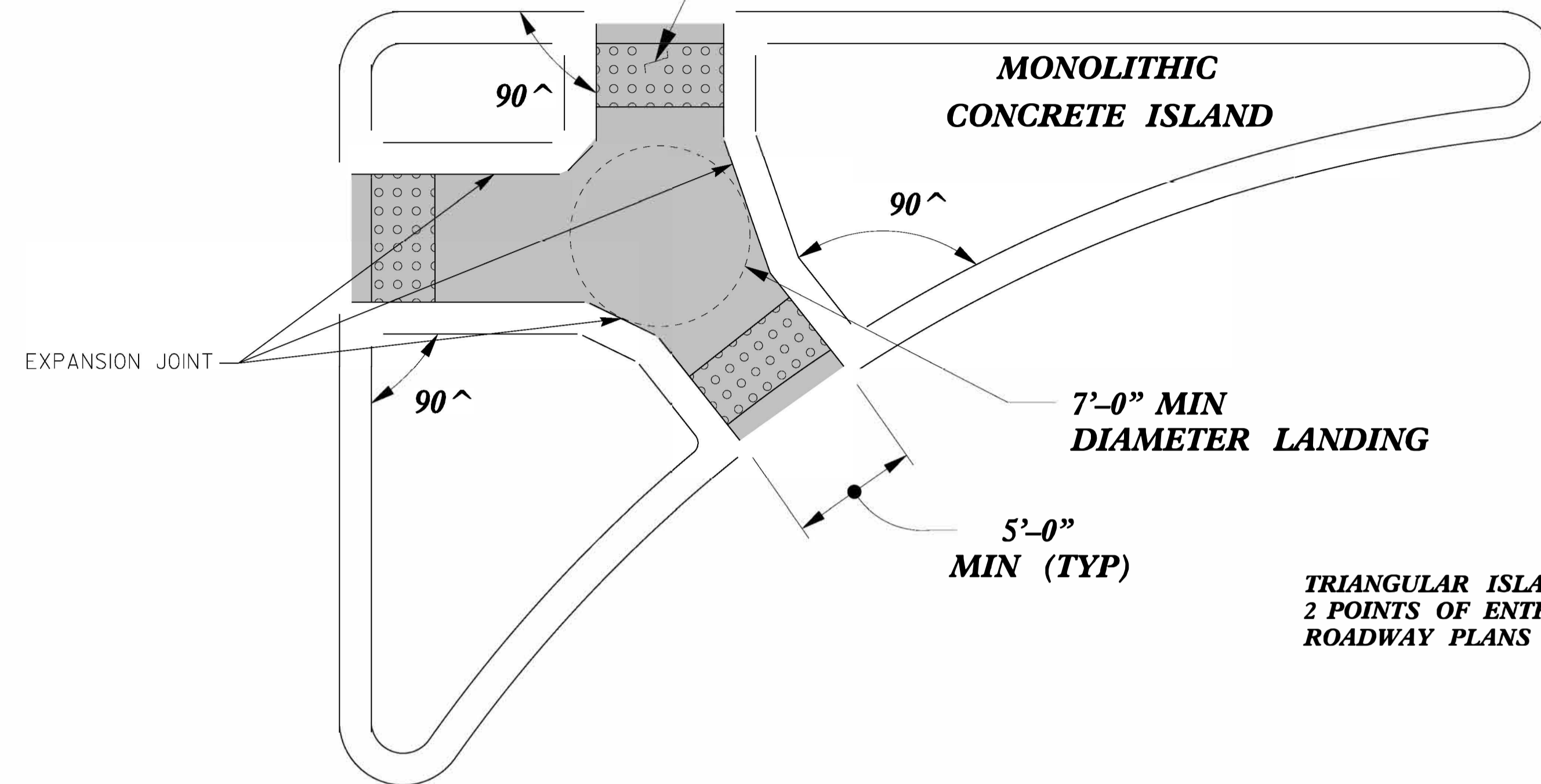
CURB RAMPS

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

5/14/99
SYTIME
CONS
SUGERNAVE

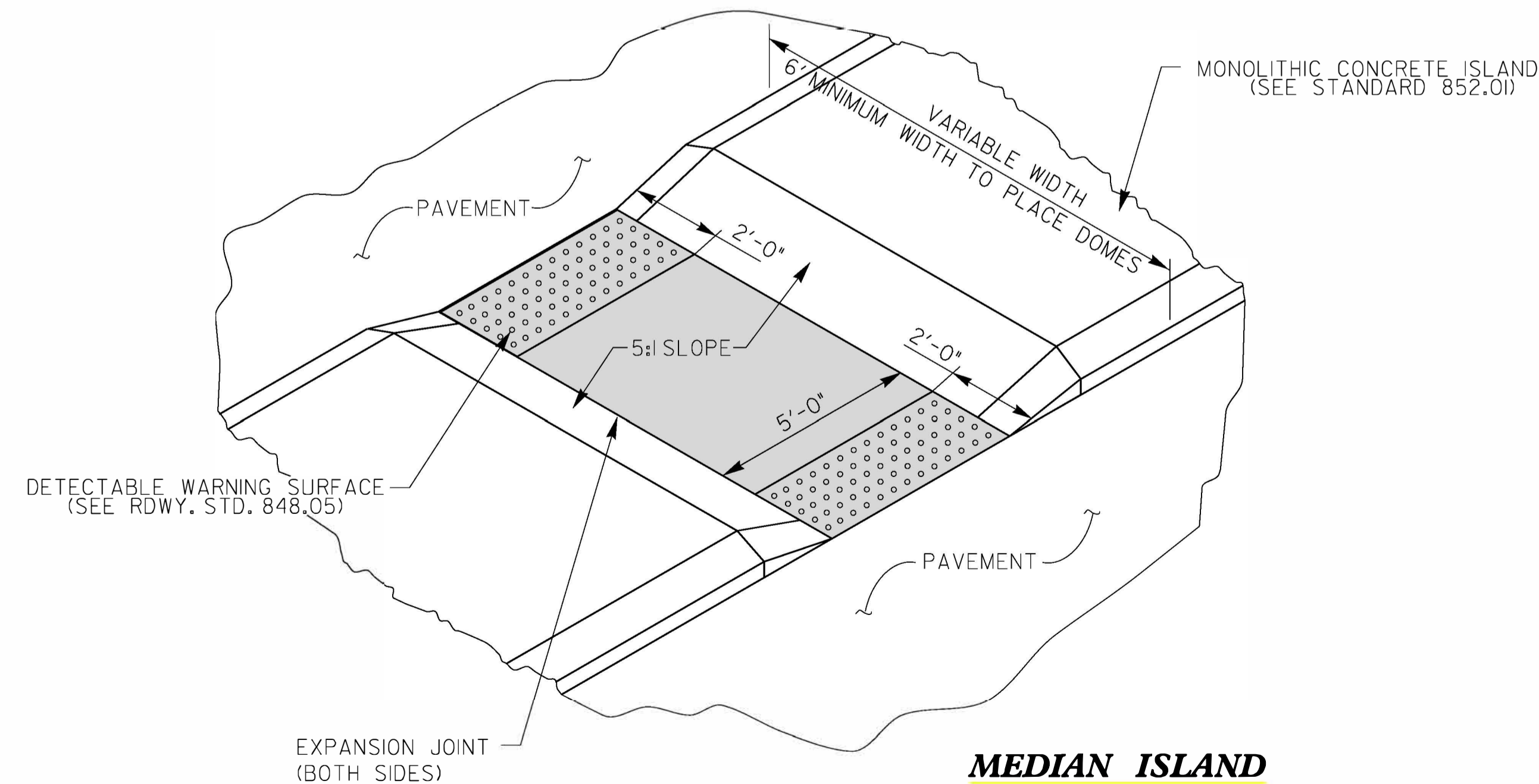
DETECTABLE WARNING SURFACE (SEE RDWY. STD. 848.05)

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

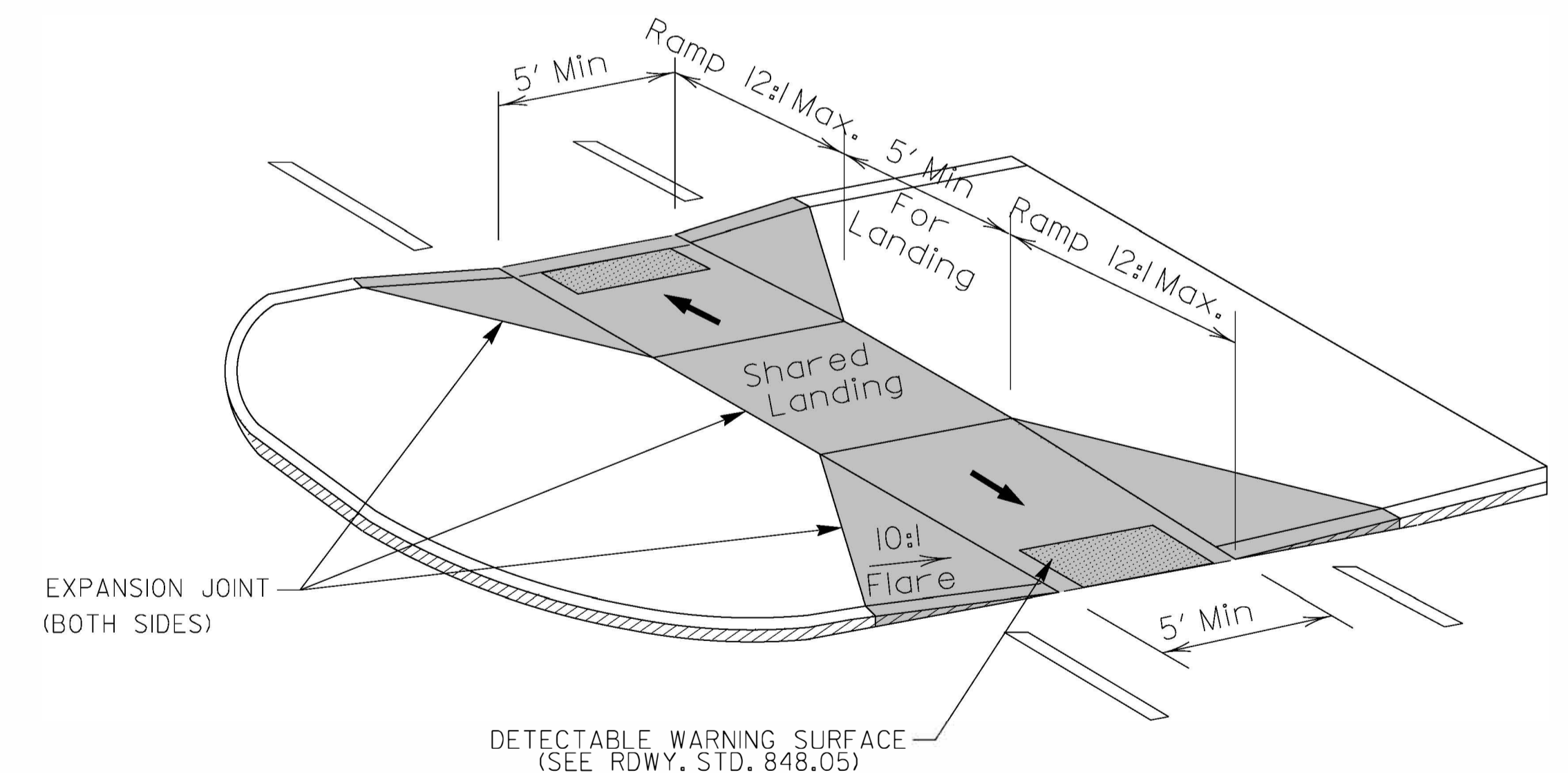


TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

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

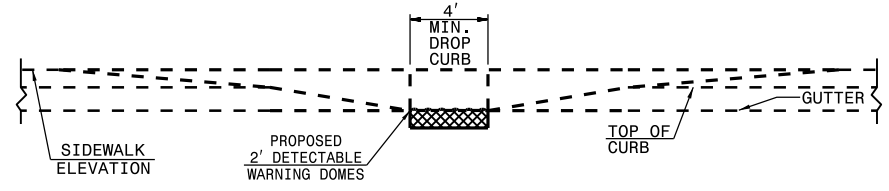
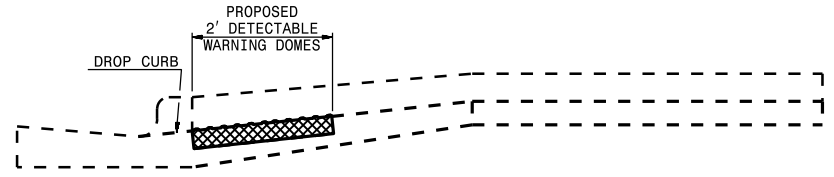
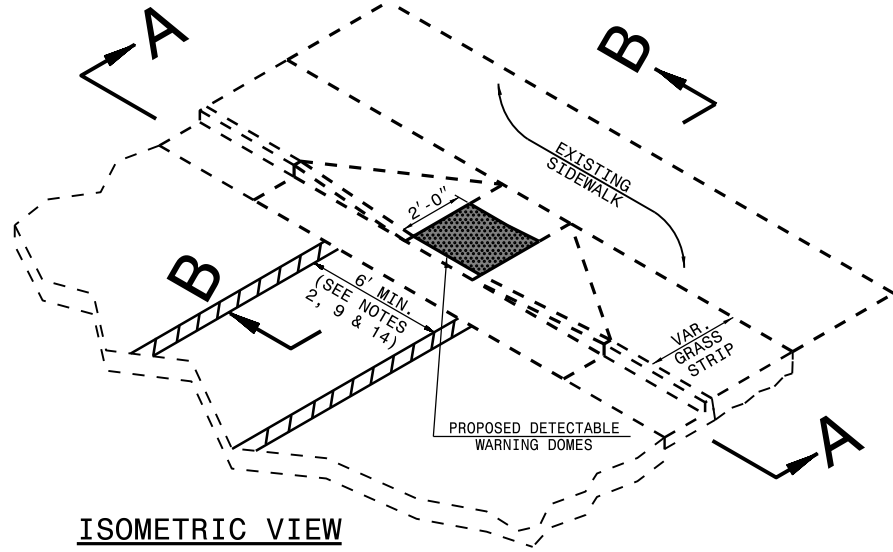
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS
Median or Turn Lane Islands

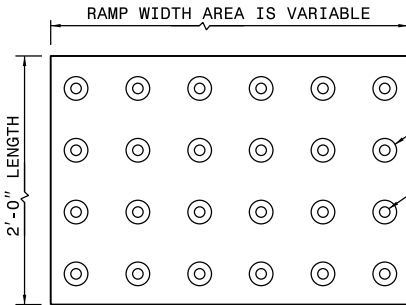
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn

5/14/99
SYTIME
SUGGESTION

RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP

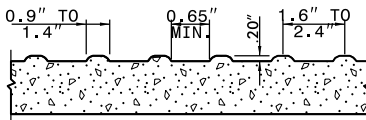


PAY LIMITS OF RETROFIT CURB RAMP

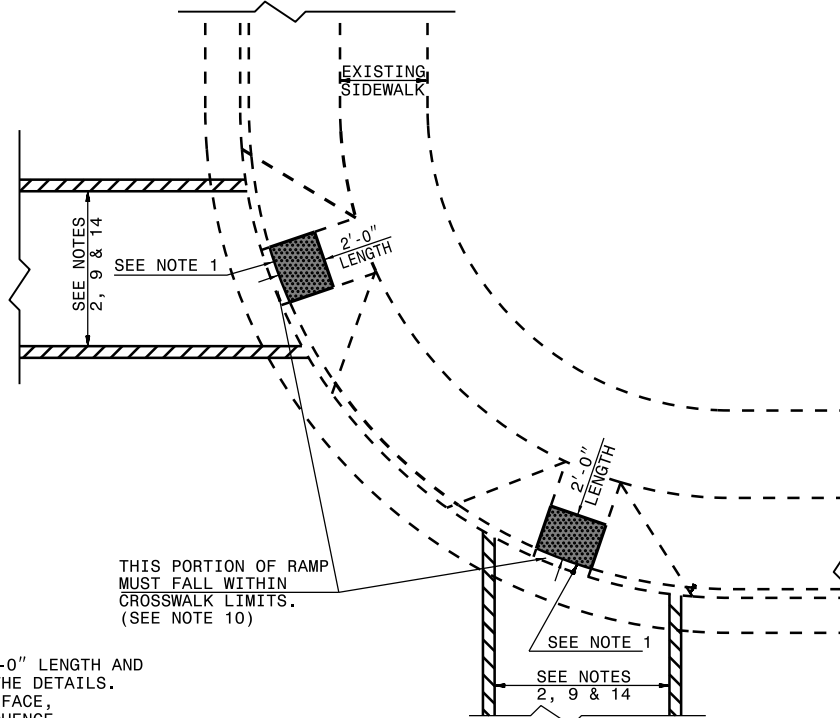


BASE DIAMETER
0.90" R TO 1.40" R

TOP DIAMETER OF NO LESS THAN 50% TO NO MORE THAN 65% OF THE BASE DIAMETER



- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

DETECTABLE WARNING DOMES

ADA SUMMARY OF QUANTITIES - PINEY GROVE WILBON FROM PVMT JT TO NC 42

Municipality:	Holly Springs
Project Number:	2024 South
WBS Number:	2023CPT.05.03.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2738000000-E	2759000000-N	2613000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Remove Sidewalk SY	Retrofit Curb Ramp Detectable Warnings EA	Remove and Replace Curb Ramps EA	Remove Curb Ramps EA	
11096	1	Piney Grove Wilbon Rd	Bayham Dr				1			RetrofitWarnings
11097	1	Piney Grove Wilbon Rd	Bayham Dr				1			RetrofitWarnings
Sub-Total for Piney Grove Wilbon From PVMT JT To NC 42				0	0	0	2	0	0	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - DICKENS RD FROM SR 1399 TO NC 55

Municipality:	Fuquay-Varina
Project Number:	2024 South
WBS Number:	2023CPT.05.03.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2738000000-E	2759000000-N	2613000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Remove Sidewalk SY	Retrofit Curb Ramp Detectable Warnings EA	Remove and Replace Curb Ramps EA	Remove Curb Ramps EA	
4662	1	NC-55 (N Broad St)	SR-1398 (Dickens Rd)				1			RetrofitWarnings
4663	1	NC-55 (N Broad St)	SR-1398 (Dickens Rd)		2		1			RetrofitWarnings
4664	1	NC-55 (N Broad St)	SR-1398 (Dickens Rd)	15	9	7			1	Remove Ramp
11002	2	SR-1398 (Dickens Rd)	N Grassland Dr				1			RetrofitWarnings
11003	2	SR-1398 (Dickens Rd)	N Grassland Dr	18	9	6			1	Remove Ramp
11004	2	SR-1398 (Dickens Rd)	N Grassland Dr				1			RetrofitWarnings
Sub-Total for Dickens Rd From SR 1399 To NC 55				33	20	13	4	0	2	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - E VANCE ST FROM US 401 TO SPRING ST

Municipality:	Fuquay-Varina
Project Number:	2024 South
WBS Number:	2023CPT.05.03.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2738000000-E	2759000000-N	2613000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Remove Sidewalk SY	Retrofit Curb Ramp Detectable Warnings EA	Remove and Replace Curb Ramps EA	Remove Curb Ramps EA	
4944	1	US-401 (S Main St)	W Vance St				1			RetrofitWarnings
4945	1	US-401 (S Main St)	W Vance St				1			RetrofitWarnings
4946	1	US-401 (S Main St)	W Vance St		2		1			RetrofitWarnings
4947	1	US-401 (S Main St)	SR-2770 (E Vance St)				1			RetrofitWarnings
4948	1	US-401 (S Main St)	SR-2770 (E Vance St)				1			RetrofitWarnings
4951	1	US-401 (S Main St)	SR-2770 (E Vance St)				1			RetrofitWarnings
Sub-Total for E Vance St From US 401 To Spring St				0	2	0	6	0	0	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - THOMPSON RD FROM SR 2812 TO END MAINTENANCE

Municipality:	Garner
Project Number:	2024 South
WBS Number:	2023CPT.05.03.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2738000000-E	2759000000-N	2613000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Remove Sidewalk SY	Retrofit Curb Ramp Detectable Warnings EA	Remove and Replace Curb Ramps EA	Remove Curb Ramps EA	
8763	1	SR-2712 (Thompson Rd)	Meadow Oak Ln		6	6		1		Type1Modified
8764	1	SR-2712 (Thompson Rd)	Meadow Oak Ln				1			RetrofitWarnings
8755	2	SR-2712 (Thompson Rd)	Briar Rose Ln					1		Standard - 848.06
8756	2	SR-2712 (Thompson Rd)	Briar Rose Ln					1		Standard - 848.06
8757	2	SR-2712 (Thompson Rd)	Brookwynd Ct				1			RetrofitWarnings
8758	2	SR-2712 (Thompson Rd)	Brookwynd Ct				1			RetrofitWarnings
Sub-Total for Thompson Rd From SR 2812 To End Maintenance				0	6	6	3	3	0	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - CLAYMORE DR FROM SR 2710 TO END MAINTENANCE

Municipality:	Garner
Project Number:	2024 South
WBS Number:	2023CPT.05.03.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2738000000-E	2759000000-N	2613000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Remove Sidewalk SY	Retrofit Curb Ramp Detectable Warnings EA	Remove and Replace Curb Ramps EA	Remove Curb Ramps EA	
8728	1	SR-2813 (Claymore Dr)	Aversboro Elementary School (1605 Aversboro Rd) Claymore Rd Entrance				1			RetrofitWarnings
8729	1	SR-2813 (Claymore Dr)	Aversboro Elementary School (1605 Aversboro Rd) Claymore Rd Entrance				1			RetrofitWarnings
Sub-Total for Claymore Dr From SR 2710 To End Maintenance				0	0	0	2	0	0	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - IDLEWOOD VILLAGE DR FROM BEGIN MAINTENANCE TO END MAINTENANCE

Municipality:	Raleigh
Project Number:	2024 South
WBS Number:	2023CPT.05.03.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2738000000-E	2759000000-N	2613000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Remove Sidewalk SY	Retrofit Curb Ramp Detectable Warnings EA	Remove and Replace Curb Ramps EA	Remove Curb Ramps EA	
12557	1	SR-4168 (Idlewood Village Dr)	Ujamaa Dr		3	3		1		Type1Modified
12558	1	SR-4168 (Idlewood Village Dr)	Ujamaa Dr		3	3		1		Type1Modified
12553	2	SR-4168 (Idlewood Village Dr)	Ricochet Dr				1			RetrofitWarnings
12554	2	SR-4168 (Idlewood Village Dr)	Ricochet Dr				1			RetrofitWarnings
12555	2	SR-4168 (Idlewood Village Dr)	Ricochet Dr					1		Type3Modified
12556	2	SR-4168 (Idlewood Village Dr)	Ricochet Dr					1		Type3Modified
12548	3	SR-4168 (Idlewood Village Dr)	RISE SE Raleigh Charter School (3420 Idlewood Village Dr)				1			RetrofitWarnings
12549	3	SR-4168 (Idlewood Village Dr)	RISE SE Raleigh Charter School (3420 Idlewood Village Dr)				1			RetrofitWarnings
12550	3	SR-4168 (Idlewood Village Dr)	RISE SE Raleigh Charter School (3420 Idlewood Village Dr)					1		Type1Modified
12552	3	SR-4168 (Idlewood Village Dr)	Snowberry Dr		6	6		1		Type2AModified
12546	4	SR-4168 (Idlewood Village Dr)	Upper Room Church (3300 Idlewood Village Dr)					1		Type1Modified
12547	4	SR-4168 (Idlewood Village Dr)	Upper Room Church (3300 Idlewood Village Dr)		6	6		1		Type1Modified
Sub-Total for Idlewood Village Dr From Begin Maintenance To End Maintenance				0	18	18	4	8	0	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - WILSON ST FROM SR 1004 TO DEAD END

Municipality:	Raleigh
Project Number:	2024 South
WBS Number:	2023CPT.05.03.20922.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2738000000-E	2759000000-N	2613000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Remove Sidewalk SY	Retrofit Curb Ramp Detectable Warnings EA	Remove and Replace Curb Ramps EA	Remove Curb Ramps EA	
8917	1	SR-1004 (Garner Rd)	SR-2536 (Wilson St)					1		Type3
8918	1	SR-1004 (Garner Rd)	SR-2536 (Wilson St)					1		Type3
8919	1	SR-1004 (Garner Rd)	SR-2536 (Wilson St)					1		Type3Modified
8920	1	SR-1004 (Garner Rd)	SR-2536 (Wilson St)					1		Type3Modified
8923	1	SR-1004 (Garner Rd)	SR-2536 (Wilson St)					1		Type3Modified
8924	1	SR-1004 (Garner Rd)	SR-2536 (Wilson St)					1		Type3Modified
8921	2	SR-2536 (Wilson St)	Jobs Journey Ct				1			RetrofitWarnings
8922	2	SR-2536 (Wilson St)	Jobs Journey Ct				1			RetrofitWarnings
Sub-Total for Wilson St From SR 1004 To Dead End				0	0	0	2	6	0	

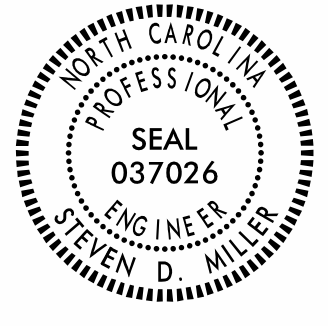
Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - TOTALS

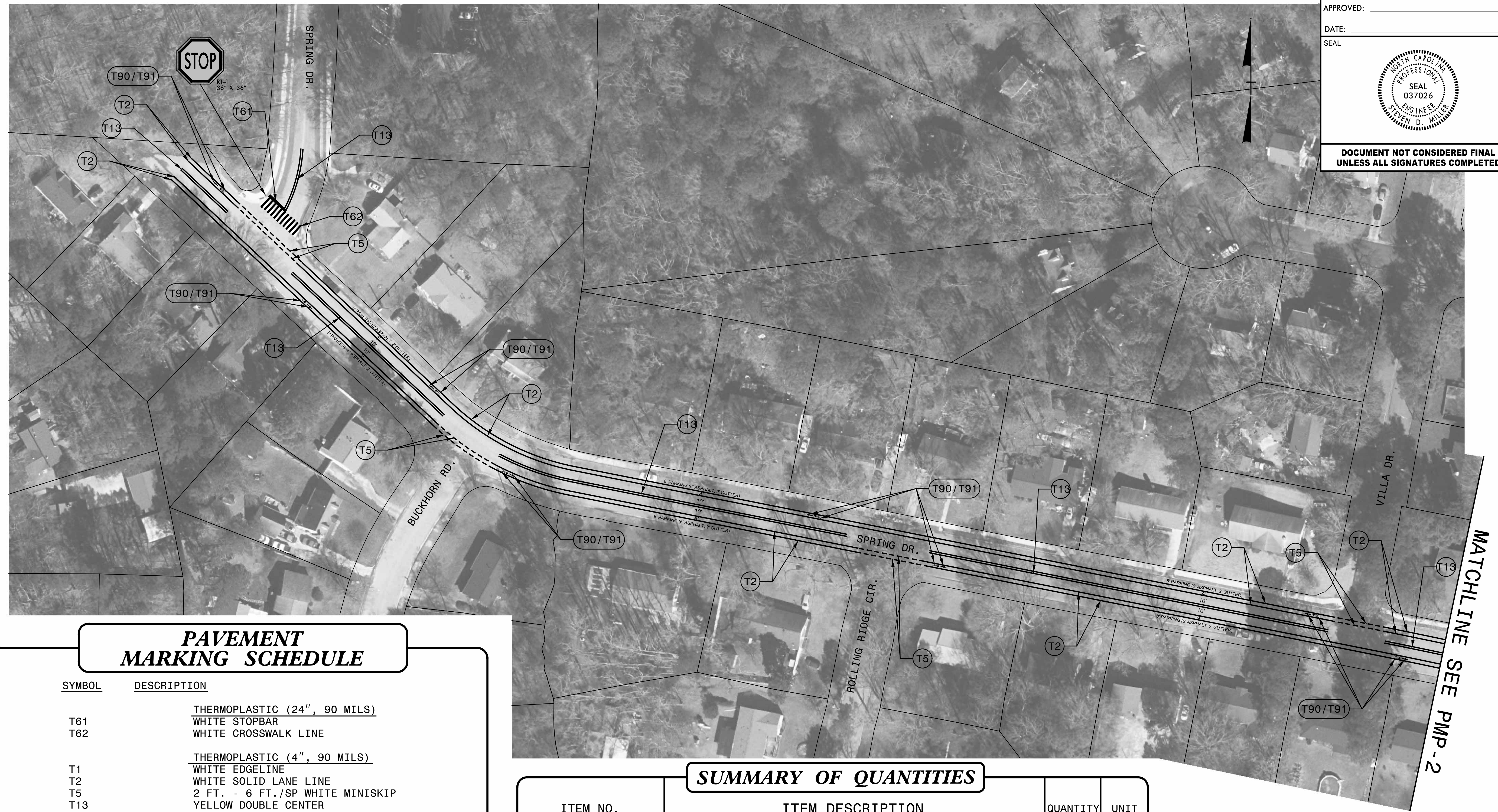
Project Number:	2024 South
WBS Number:	2023CPT.05.03.20921.1
County:	Wake

Project Number	County	Municipality	Resurfacing Route	444700000-E	460000000-N	460000000-N	254900000-E	259100000-E	273800000-E	275900000-N	261300000-N	275900000-N
				Pedestrian Channelizing Devices LF	Generic Traffic Control Item - Pedestrian Transport Service EA	Generic Traffic Control Item - Audible Warning Device EA	2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Remove Sidewalk SY	Retrofit Curb Ramp Detectable Warnings EA	Remove and Replace Curb Ramps EA	Remove Curb Ramps EA
2024 West	Wake	Garner	Thompson Rd From SR 2812 To End Maintenance				0	6	6	3	3	0
2024 West	Wake	Fuquay-Varina	Dickens Rd From SR 1399 To NC 55				33	20	13	4	0	2
2024 West	Wake	Fuquay-Varina	E Vance St From US 401 To Spring St				0	2	0	6	0	0
2024 West	Wake	Raleigh	Idlewood Village Dr From Begin Maintenance To End Maintenance				0	18	18	4	8	0
2024 West	Wake	Raleigh	Wilson St From SR 1004 To Dead End				0	0	0	2	6	0
2024 West	Wake	Holly Springs	Piney Grove Wilbon From PVMT JT To NC 42				0	0	0	2	0	0
2024 West	Wake	Garner	Claymore Dr From SR 2710 To End Maintenance				0	0	0	2	0	0
-	-	-	-	60	10	2	-	-	-	-	-	-
GRAND TOTAL				60	10	2	33	46	37	23	17	2

APPROVED: _____
 DATE: _____
 SEAL



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 UNLESS ALL SIGNATURES COMPLETED**



PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
T61	THERMOPLASTIC (24", 90 MILS) WHITE STOPBAR
T62	WHITE CROSSWALK LINE
T1	THERMOPLASTIC (4", 90 MILS) WHITE EDGELINE
T2	WHITE SOLID LANE LINE
T5	2 FT. - 6 FT./SP WHITE MINISKIP
T13	YELLOW DOUBLE CENTER
T70	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS) LEFT TURN ARROW
T71	RIGHT TURN ARROW
T74	COMBO. STRAIGHT/RIGHT TURN ARROW
T90	BICYCLE SYMBOL, HEATED IN PLACE
T91	BICYCLE STRAIGHT ARROW, HEATED IN PALCE
T94	SHARROW, HEATED IN PLACE
T100	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) ALPHANUMERIC CHARACTER

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000-E	903	SUPPORTS, 3 LB STEEL U-CHANNEL	15	LF
4102000000-N	904	SIGN ERECTION, TYPE E	1	EA
4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	14,763	LF
4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	34	EA
4709000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	167	LF

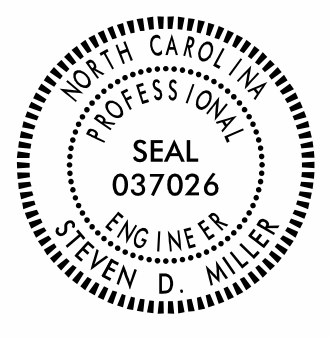
INDEX

SHEET NO.	DESCRIPTION
PMP-1-2	SPRING DRIVE
PMP-3-4	THOMPSON ROAD

8/14/2023 SE22.031.02_Pavement_Markings_Spring&Thompson\TP\Traffic\PMMP\PMMP-1.dgn
 11:40:00 AM
 11/11/2023

SEPI
 1 Glenwood Avenue
 Raleigh, NC 27603
 Tel: 919.789.9977
 Fax: 919.789.9591
 License: C-2197

PAVEMENT MARKING DETAIL

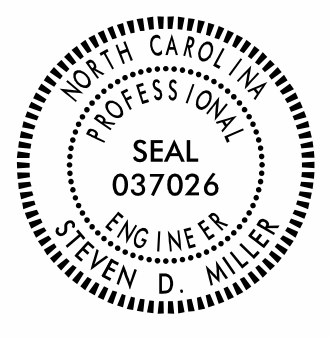
PROJECT NO.	SHEET NO.
SPRING & THOMPSON	PMP-2
APPROVED: _____	
DATE: _____	
SEAL	
	
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5/2/2022
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 10:40 AM

SEPI
 1 Glenwood Avenue
 Raleigh, NC 27603
 Tel: 919.789.9977
 Fax: 919.789.9591
 License: C-2197

PAVEMENT MARKING DETAIL

PROJECT NO.	SHEET NO.
SPRING & THOMPSON	PMP-2
APPROVED: _____	
DATE: _____	
SEAL	
	
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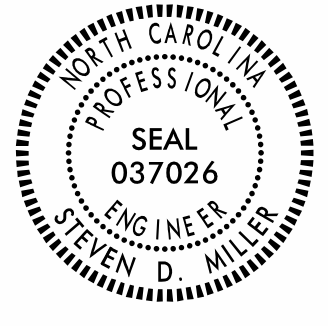


5/2/2022
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 10:41 AM

SEPI
 1 Glenwood Avenue
 Raleigh, NC 27603
 Tel: 919.789.9977
 Fax: 919.789.9591
 License: C-2197

PAVEMENT MARKING DETAIL

APPROVED: _____
 DATE: _____
 SEAL



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MATCHLINE SEE PMP-4

SUMMARY OF QUANTITIES

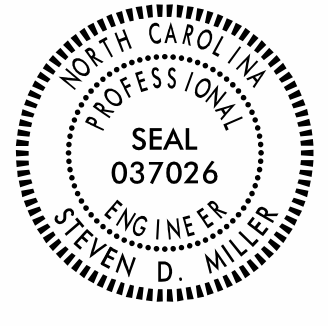
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DESC. NO.	SECT. NO.			
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4720000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	6	EA
4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	24	EA
4709000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	426	LF

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SEPI
 1 Glenwood Avenue
 Raleigh, NC 27603
 Tel: 919.789.9977
 Fax: 919.789.9591
 License: C-2197

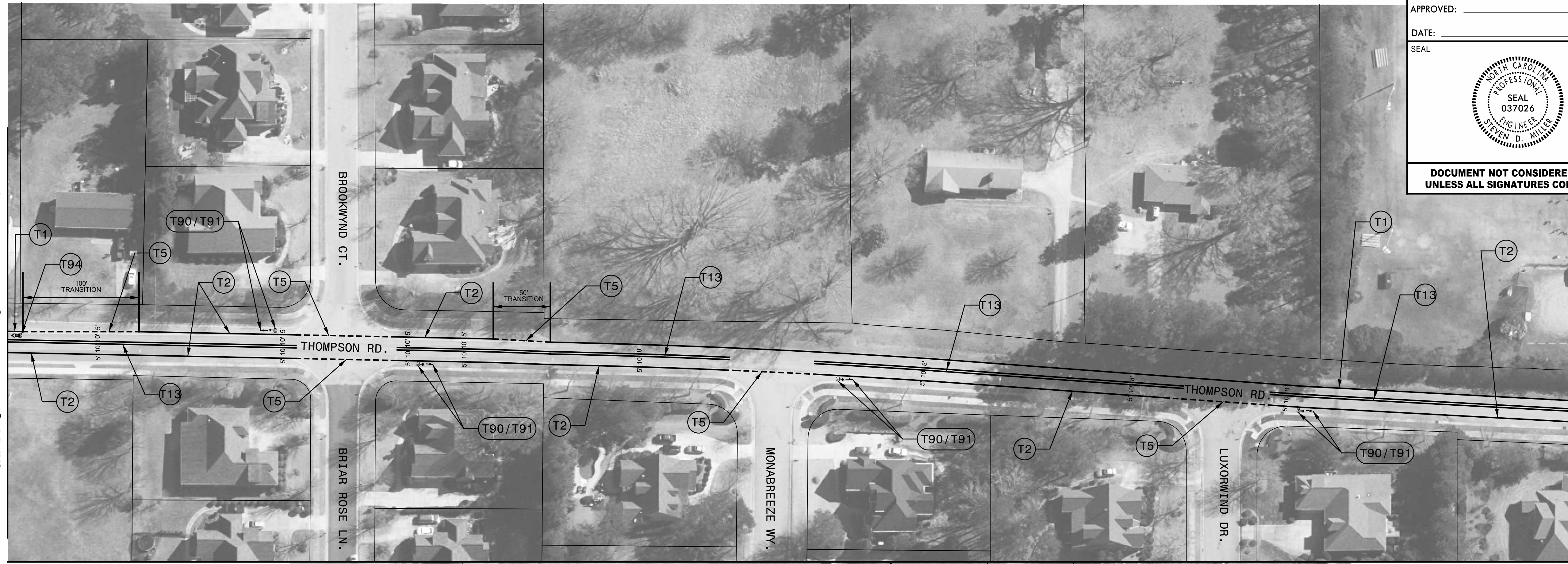
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APPROVED: _____
 DATE: _____
 SEAL

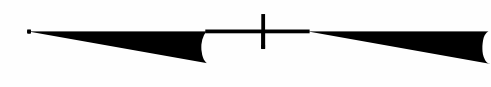


**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

MATCHLINE SEE PMP-3



MATCHLINE SEE BELOW



MATCHLINE SEE ABOVE

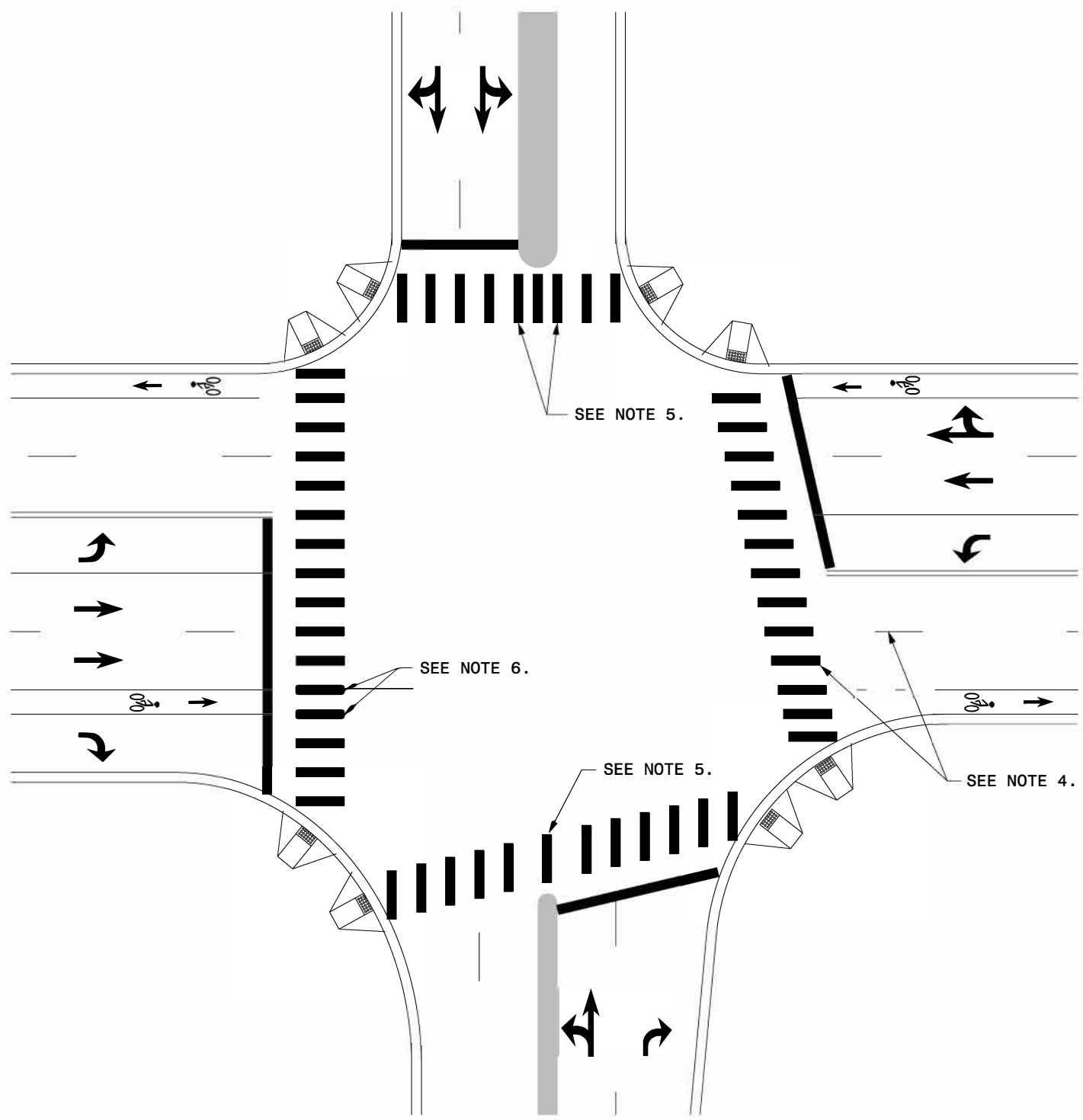


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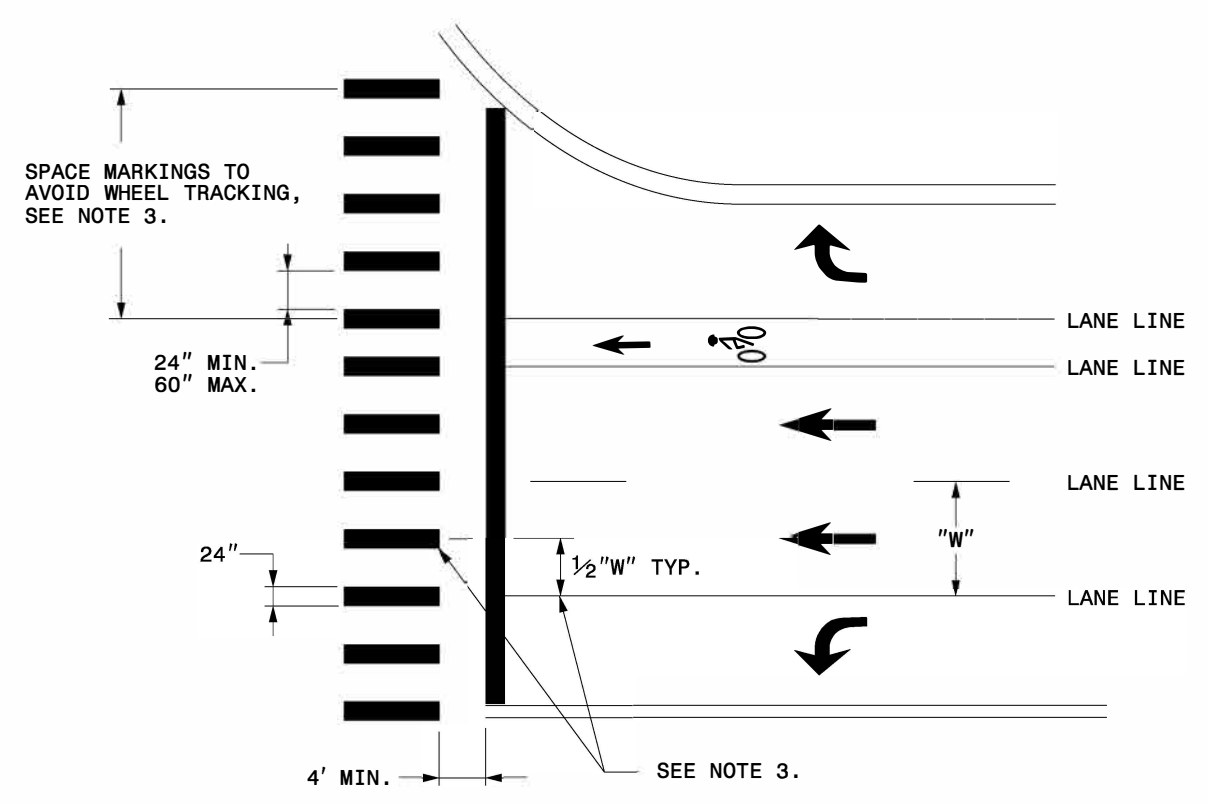
SEPI
 1 Glenwood Avenue
 Raleigh, NC 27603
 Tel: 919.789.9977
 Fax: 919.789.9591
 License: C-2197

PAVEMENT MARKING DETAIL

5-18



CROSSWALK INTERSECTION DETAIL



CROSSWALK MARKING DETAIL

GENERAL NOTES:

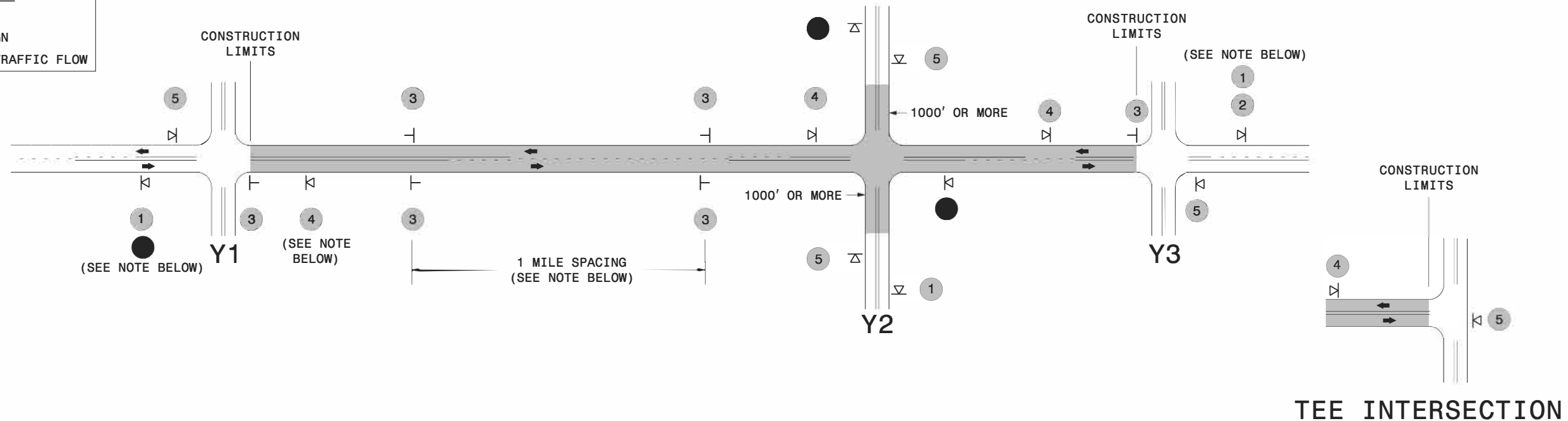
- 1- THE GUIDANCE IN THIS DETAIL IS TO BE USED WHEN NO-TRACK SPACING OF HI-VISIBILITY MARKINGS IS REQUESTED.
- 2- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH PAVEMENT MARKING GUIDANCE SHOWN ON ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.07.
- 3- PLACE MARKINGS TO AVOID WHEELPATH OF VEHICLES. MARKINGS TYPICALLY WILL BE LOCATED CENTERED AT THE LANE LINES AND EDGE LINES WITH ONE ADDITIONAL MARKING CENTERED IN THE MIDDLE OF THE LANE. AT WIDE LANE WIDTHS DUE TO TAPERS AND LARGE RADII, LOCATE MARKINGS AT BEST SPACING TO AVOID WHEEL TRACKING. THE SPACE BETWEEN MARKINGS SHALL NOT BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.
- 4- WHERE THE CROSSWALK IS SKEWED TO THE LANE LINES, THE MARKINGS SHOULD BE PARALLEL TO THE LANE LINES.
- 5- PLACE MARKINGS ON BOTH EDGES OF THE NOSE OF A MEDIAN. FOR NARROW MEDIANS LESS THAN 4 FEET, A SINGLE MARKING MAY BE USED. FOR WIDE MEDIANS, INSTALL ADDITIONAL MARKINGS IN THE MEDIAN AREA. THE SPACE BETWEEN THE MARKINGS SHALL NOT TO BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.
- 6- LOCATE MARKINGS CENTERED ON BICYCLE LANE LINES. MARKINGS SHALL NOT BE LOCATED IN THE CENTER OF THE BICYCLE PATH.

5-18

SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND

- ◻ PORTABLE SIGN
- ┆ STATIONARY SIGN
- ← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	● 2		<ul style="list-style-type: none"> - PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. - SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS. 	<p>STATIONARY SIGNING NOT REQUIRED 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; align-items: center;"> <div style="text-align: center;"> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p> </div> <div style="text-align: center;"> <p>PLACED 250' IN ADVANCE OF FLAGGER.</p> </div> </div>
	● 3		<ul style="list-style-type: none"> - ALTERNATE THE FOLLOWING TWO SIGNS: - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
	● 4		<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. 	
	● 5		<ul style="list-style-type: none"> - 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.</p>			

MAPS LESS THAN 2 MILES

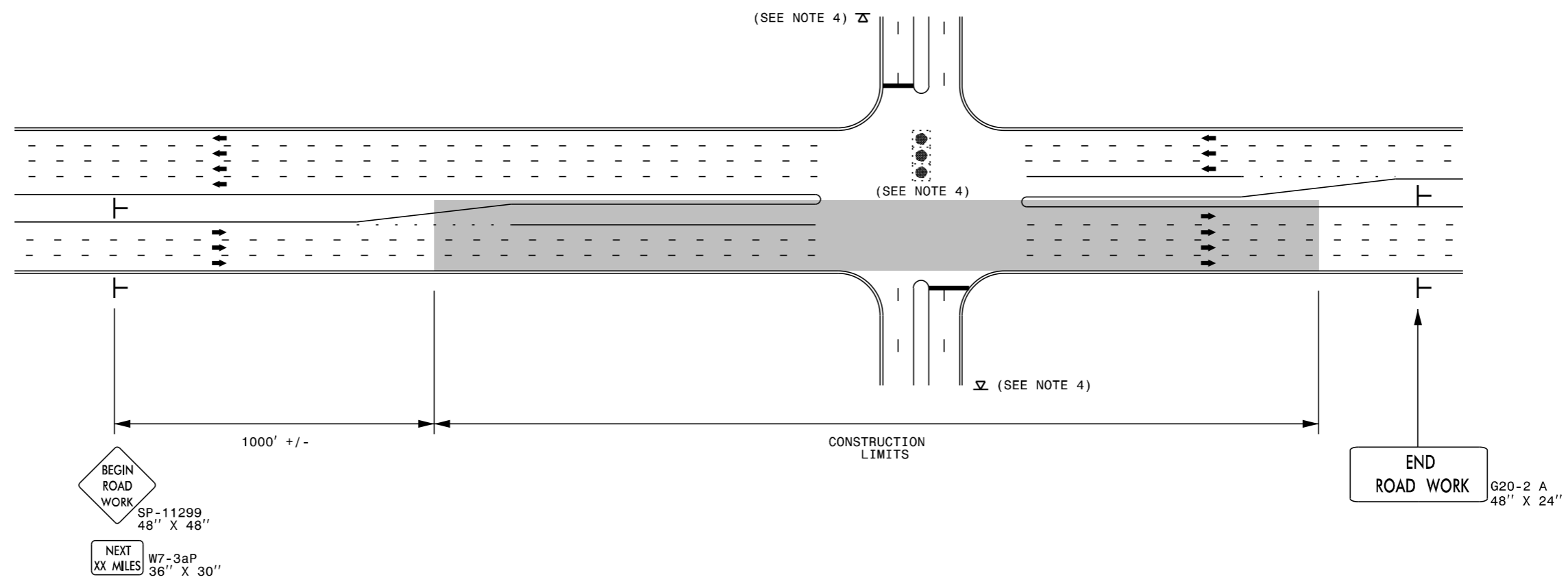
FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.



**ADVANCE WARNING SIGNS
FOR
2-LANE ROADWAY
ASPHALT SURFACE TREATMENT**

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

URBAN / SUBURBAN WORKZONES



NOTES:

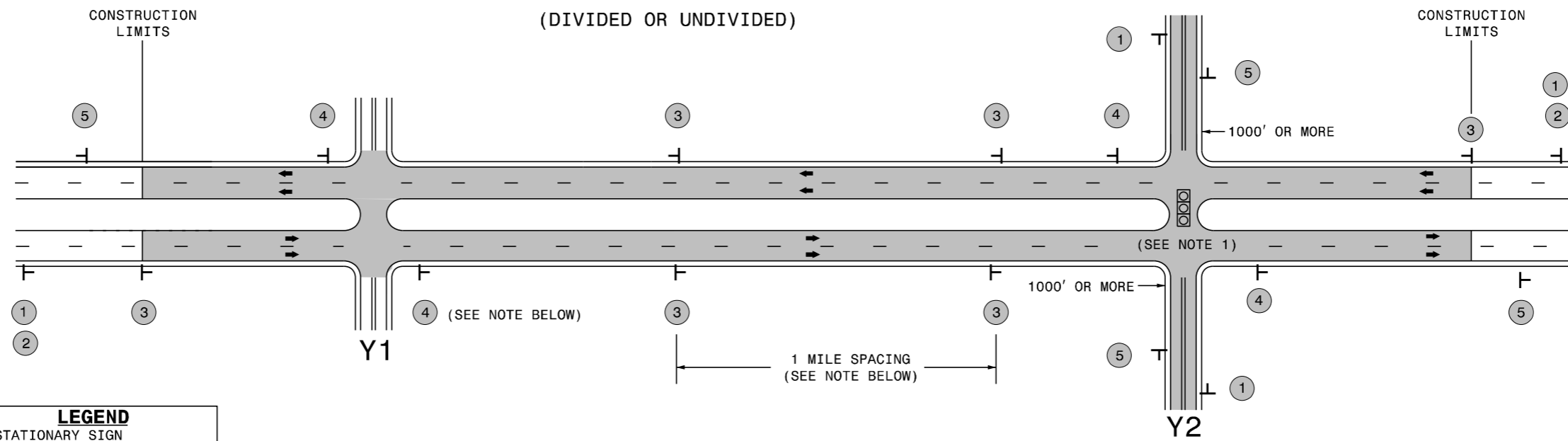
- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. 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

	<p>RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES</p>
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SIGNING FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS WITH SHOULDER SECTIONS (DIVIDED OR UNDIVIDED)



LEGEND
 T STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

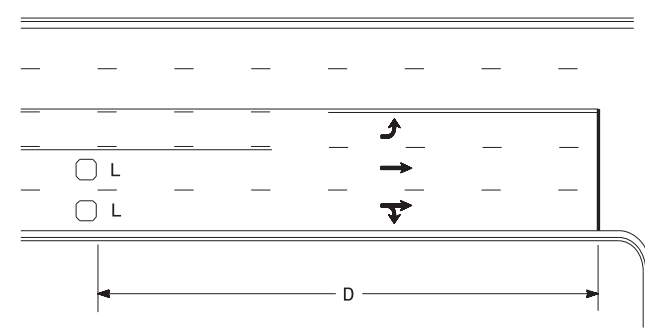
-Y- LINE SIGNING

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"> LESS THAN 1000' OF RESURFACING ALONG -Y- LINE SUBDIVISION ROADS DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 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.
	2		#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3		PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE 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.	
5		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

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

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High Speed Detection (≥40 mph)

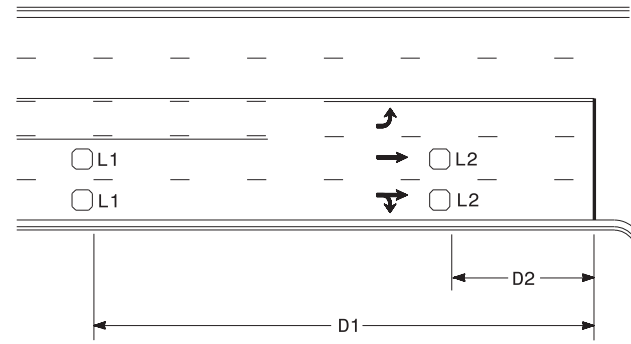


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR

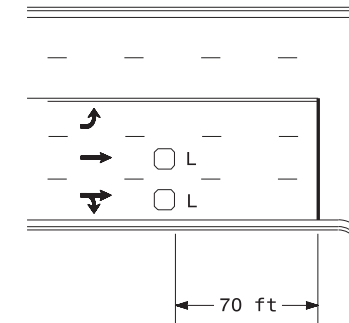


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

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

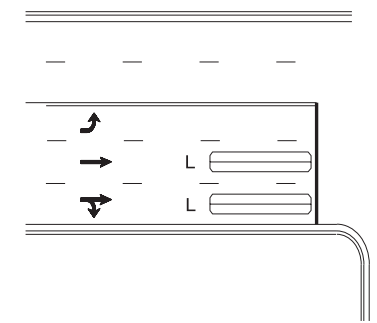
"Stretch" Operation

Low Speed Detection (≤35 mph)



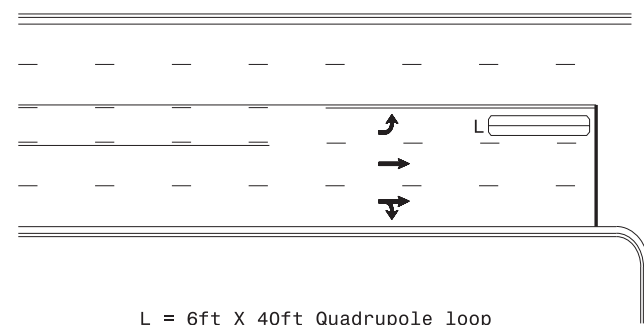
L = 6ft X 6ft
Wired in series

OR



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

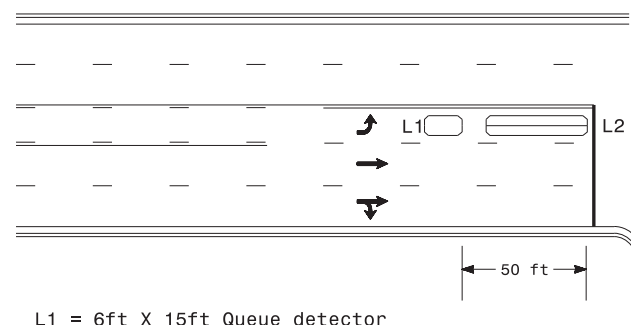
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

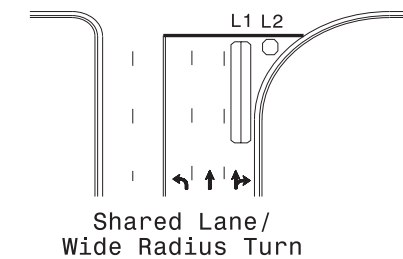
OR



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

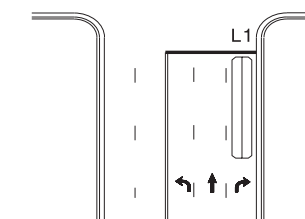
Queue Loop Detection

Right Turn Lane Detection

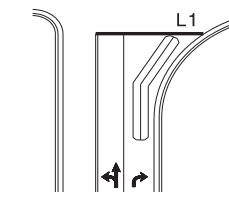


L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately

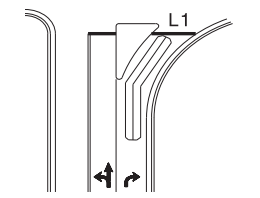
Shared Lane/
Wide Radius Turn



Standard Turn

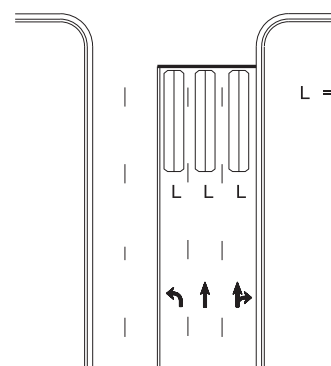


Wide Radius Turn



Channelized Turn

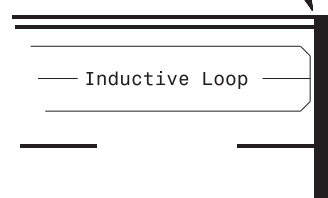
Side Street Detection



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

Presence Loop Placement at Stop Lines

Locate loop slightly
behind leading
edge of stop line



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

Recommended Number of Turns

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

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

Quadrupole loops: Use 2-4-2 turns

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

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE
N/A

Typical Signal Loop Locations

PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:
REVISIONS	INIT. DATE

9/8/2020

SIG. INVENTORY NO.