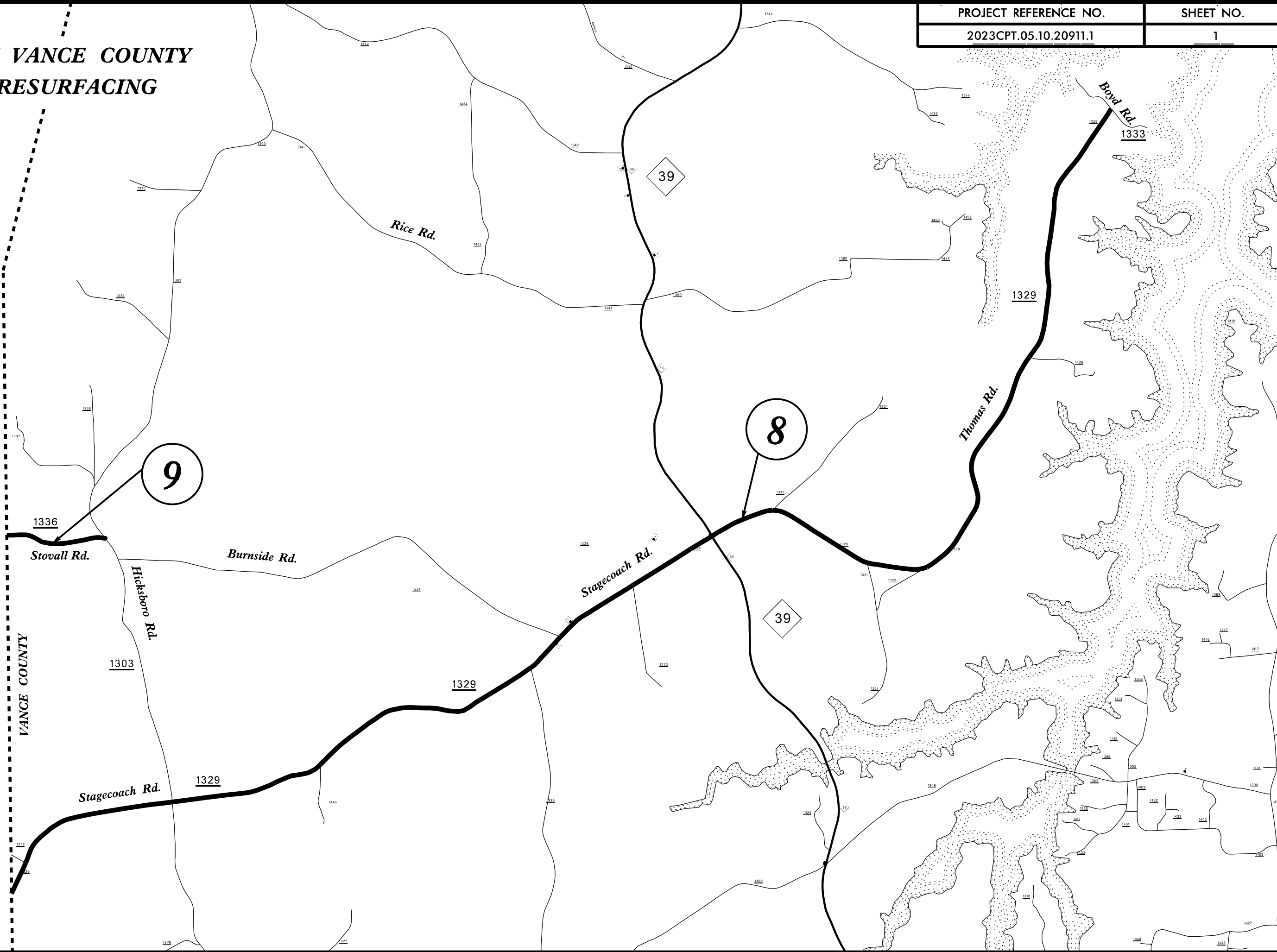


# 2024 VANCE COUNTY RESURFACING

GRANVILLE COUNTY  
VANCE COUNTY



9

8

39

39

1336

1303

1329

1329

1329

1333

5/14/25  
C:\PROJECTS\2023\2023CPT.05.10.20911.1\DRAWINGS\2023CPT.05.10.20911.1\_SHEET 1.dwg



# 2024 VANCE COUNTY RESURFACING

PROJECT REFERENCE NO.

2023CPT.05.10.20911.1

SHEET NO.

3



10

7

11

6

1

Industry Dr.

Ross Mill Rd.

Haywood  
Wright Rd.

Tall  
Pines Dr.

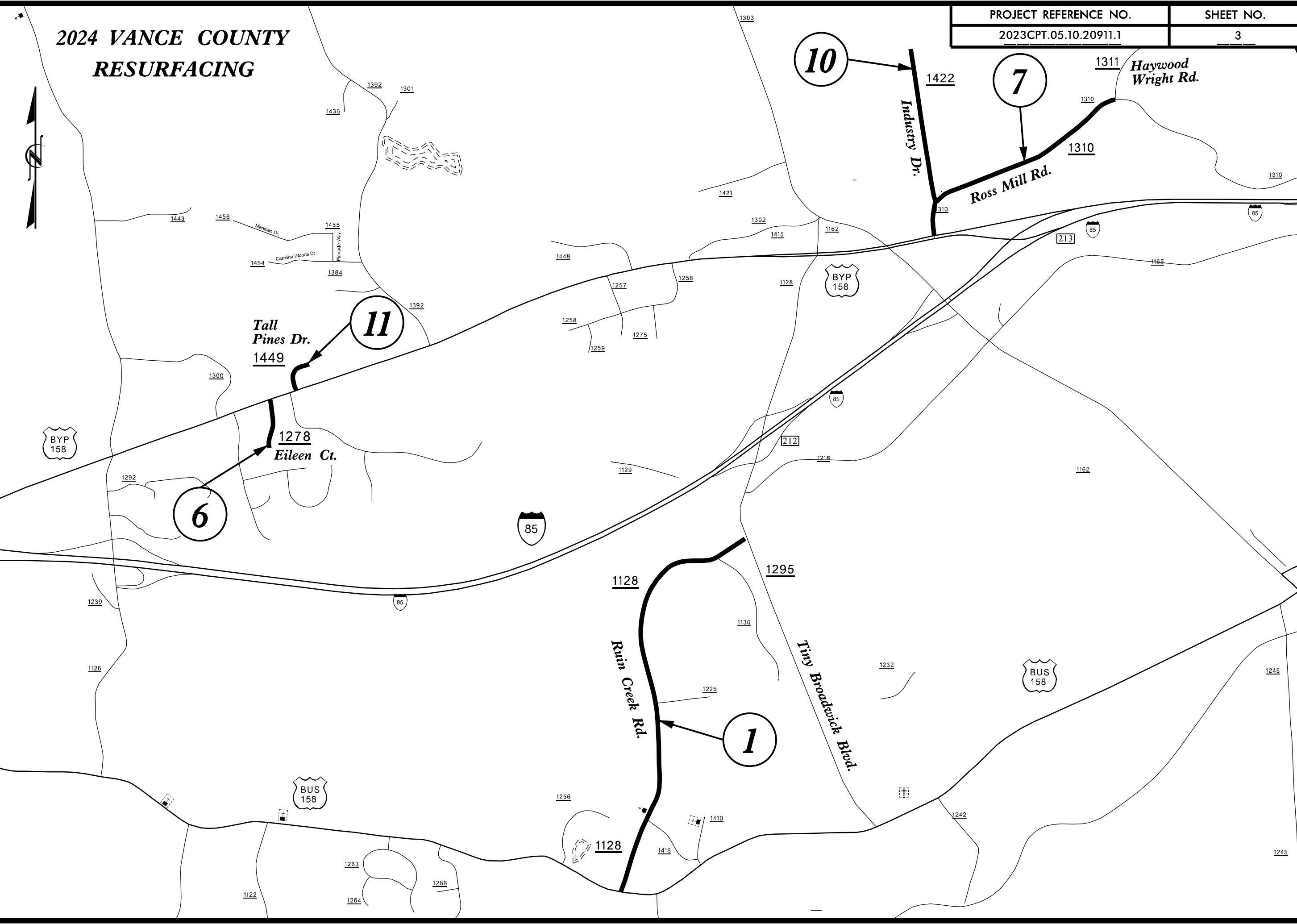
Eileen Ct.

Ruin Creek Rd.

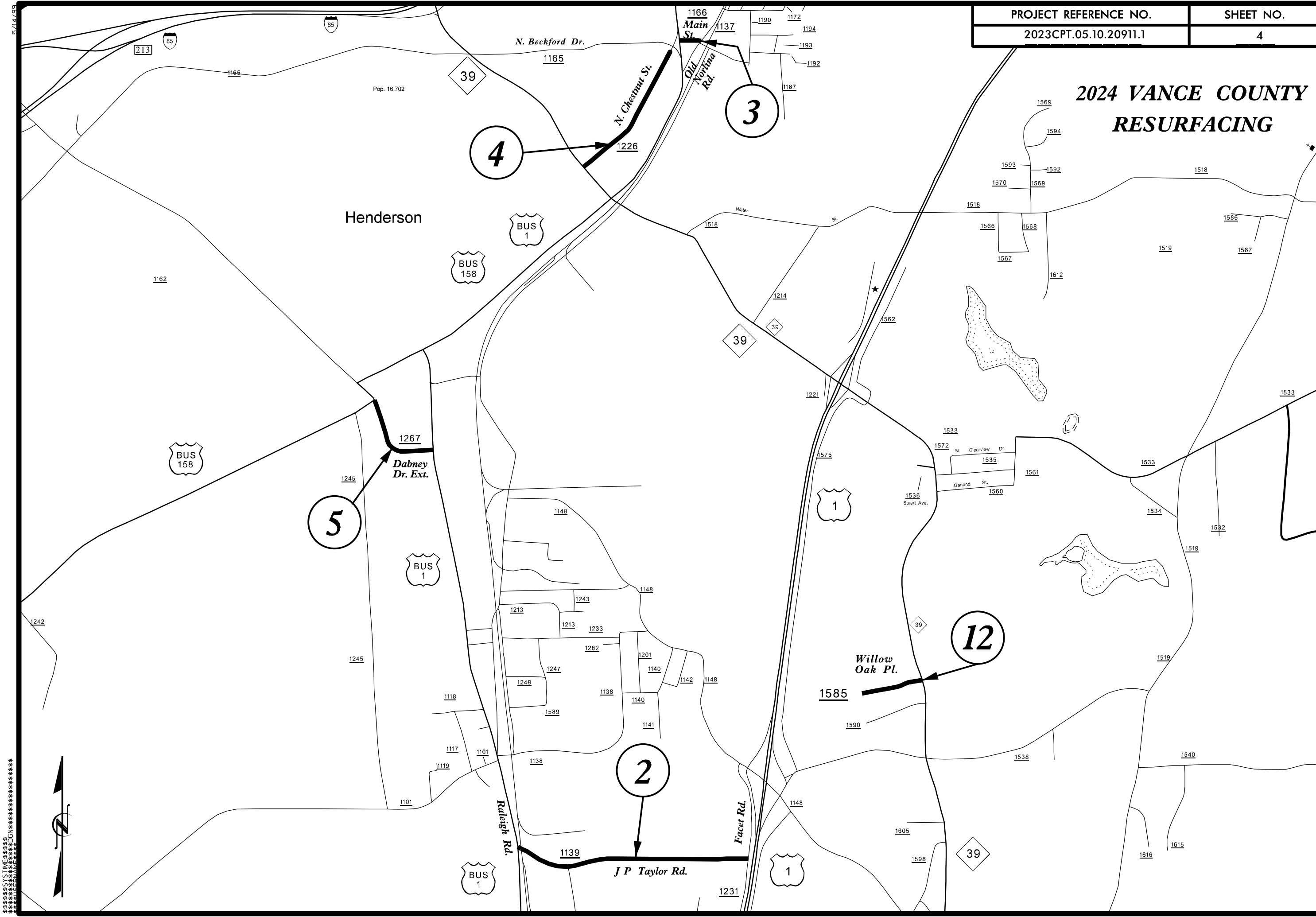
Timothy  
Broadwick Blvd.



9571715



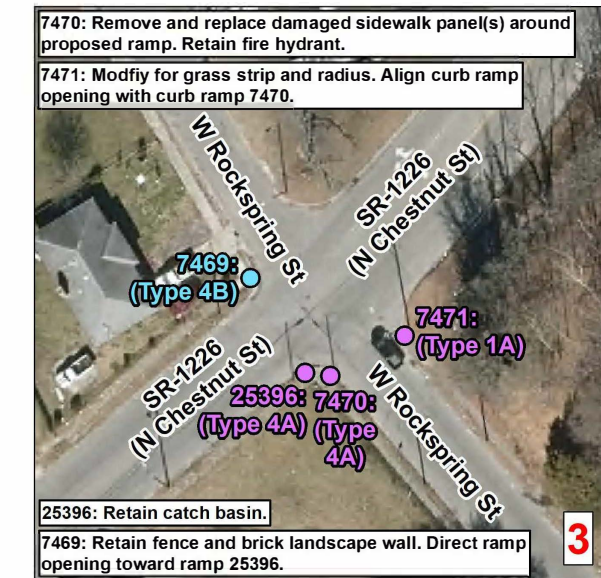
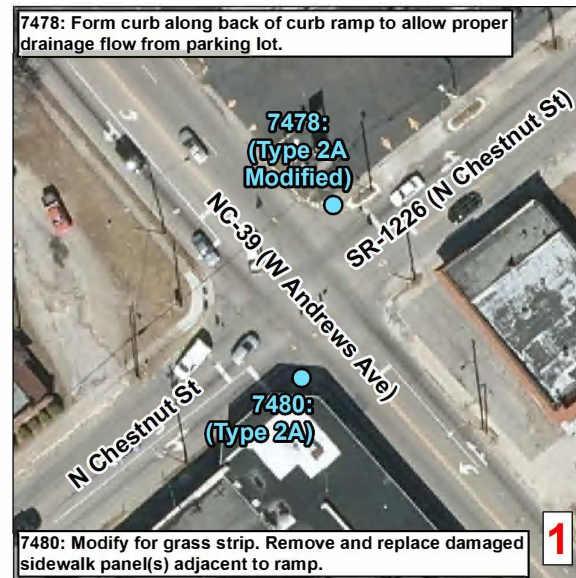
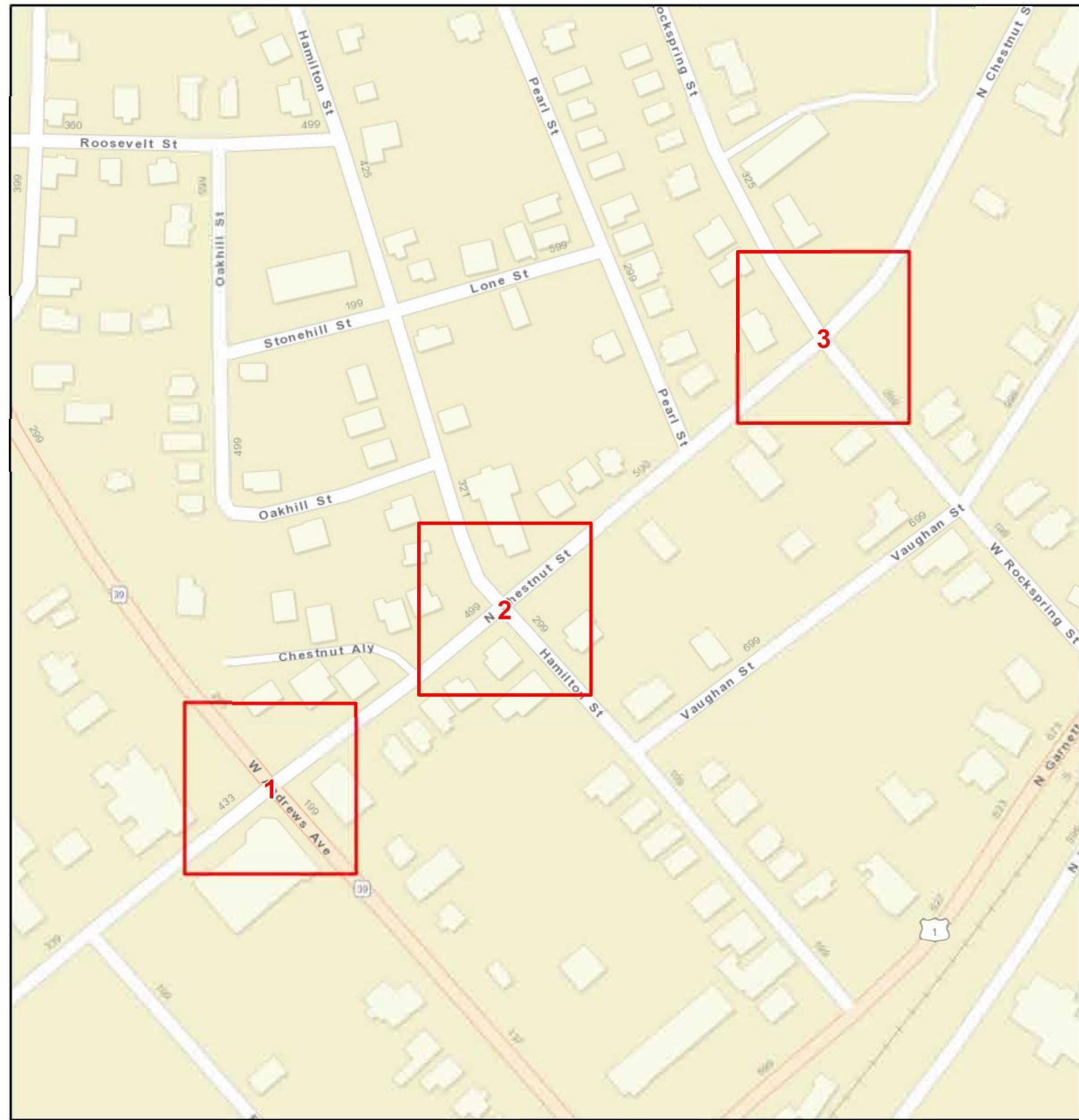
# 2024 VANCE COUNTY RESURFACING



5/14/23

SECTION 1  
SECTION 2  
SECTION 3  
SECTION 4  
SECTION 5  
SECTION 6  
SECTION 7  
SECTION 8  
SECTION 9  
SECTION 10  
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SECTION 12  
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SECTION 44  
SECTION 45  
SECTION 46  
SECTION 47  
SECTION 48  
SECTION 49  
SECTION 50





**Curb Ramps To Be Repaired**

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

Municipal Boundary  
 NCHPO Historic Boundary (NR and LHD)

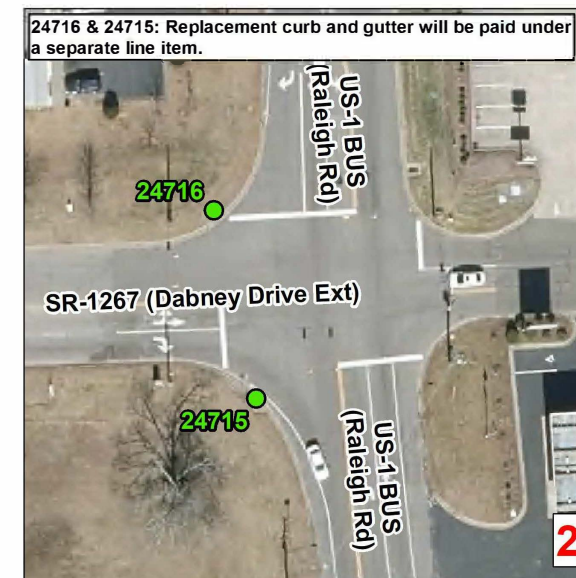
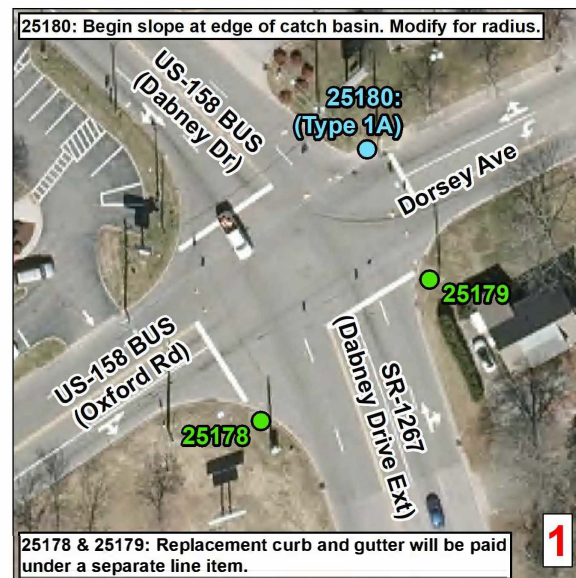
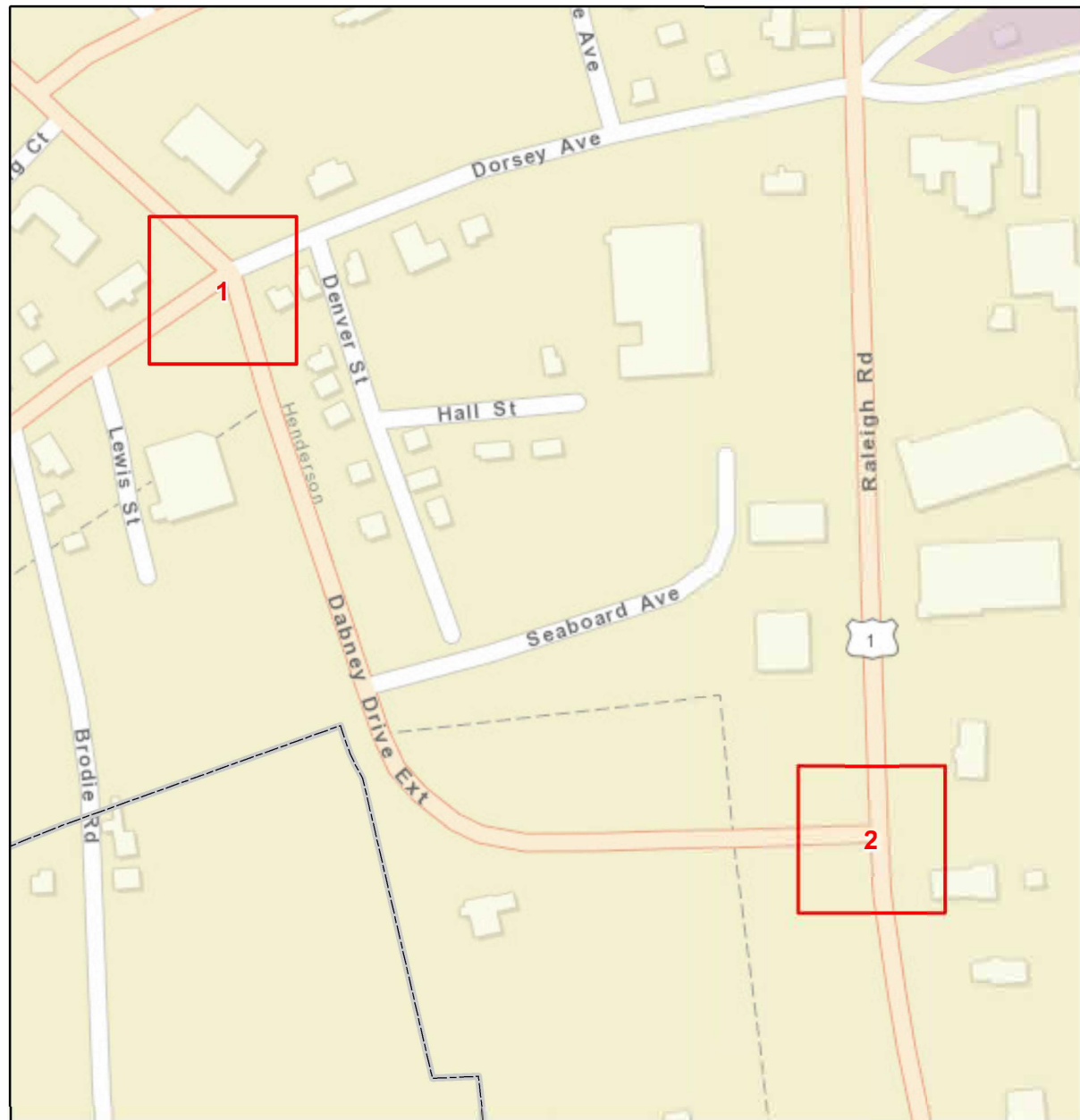
**2024 Vance**  
**WBS: 2023CPT.05.10.20911.1**  
**N. Chestnut St**  
**From NC 39 To Pvmt Jt at SR 1165**

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION 5

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

\*Prior to construction, contact City of Henderson to confirm plan for ramp # 7477 located off NCDOT right of way. Lee Owen, Public Works Director, office 252-431-0419 or email LeeOwen@henderson.nc.gov





**Curb Ramps To Be Repaired**

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

Municipal Boundary  
 NCHPO Historic Boundary (NR and LHD)

**2024 Vance**  
**WBS: 2023CPT.05.10.20911.1**  
**Dabney Dr Ext**  
**From US 158 BUS To US 1 BUS**

NORTH CAROLINA DEPARTMENT  
 OF TRANSPORTATION  
 DIVISION 5

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

# PAVEMENT SCHEDULE

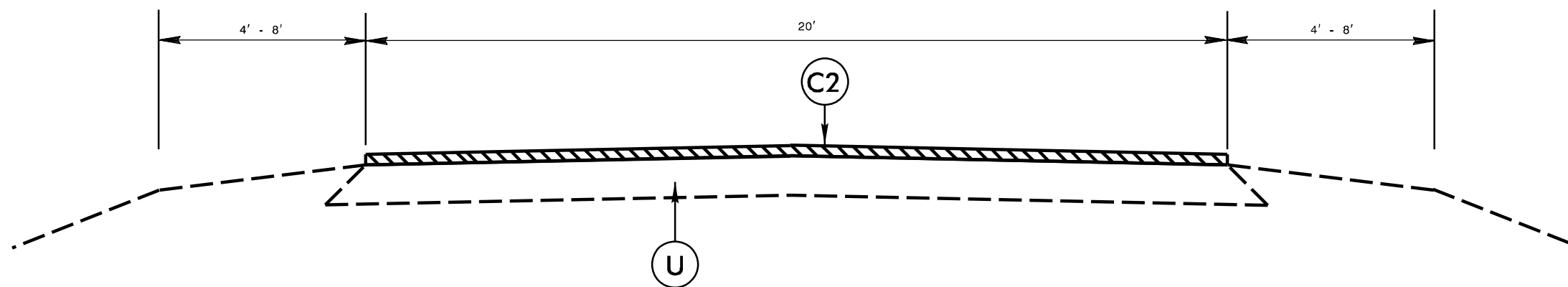
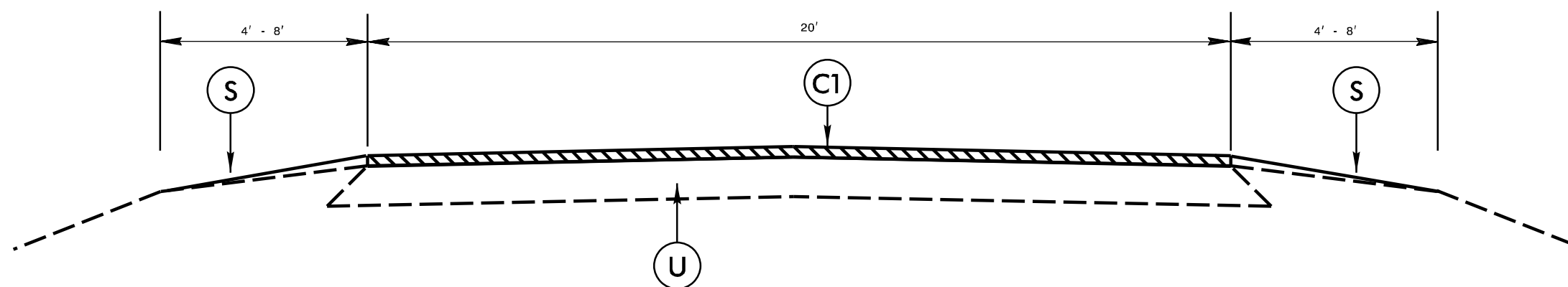
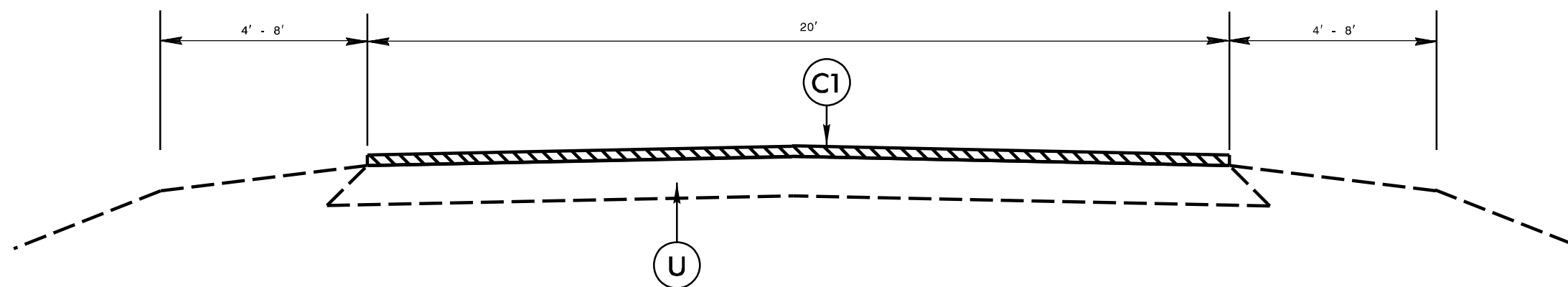
PROJECT REFERENCE NO.

SHEET NO.

2023CPT.05.10.20911.1

7

C1	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT
V1	MILL ASPHALT PAVEMENT, 1 1/2" DEPTH
V2	MILL ASPHALT PAVEMENT, 0-1 1/2" DEPTH



# PAVEMENT SCHEDULE

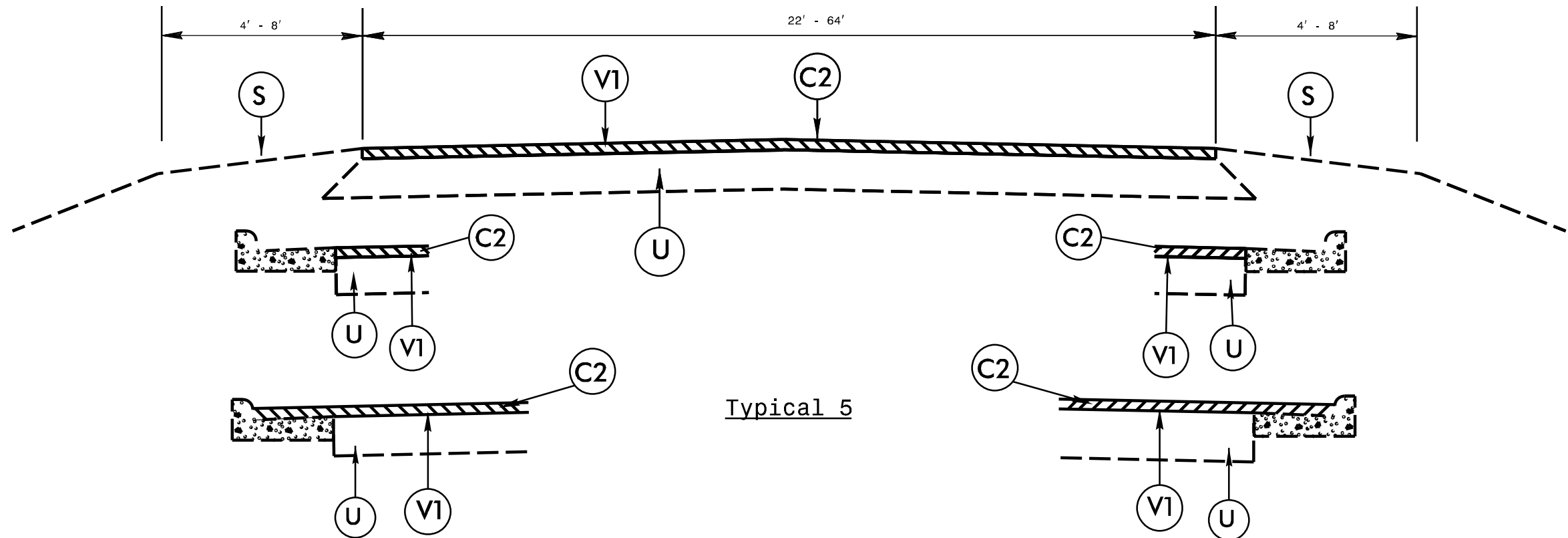
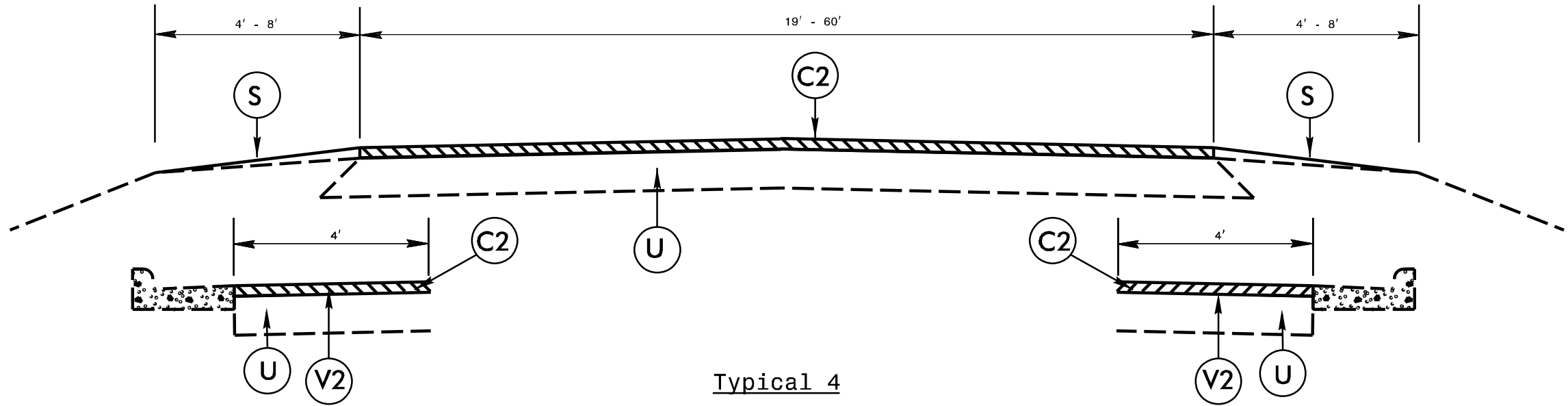
PROJECT REFERENCE NO.

SHEET NO.

2023CPT.05.10.20911.1

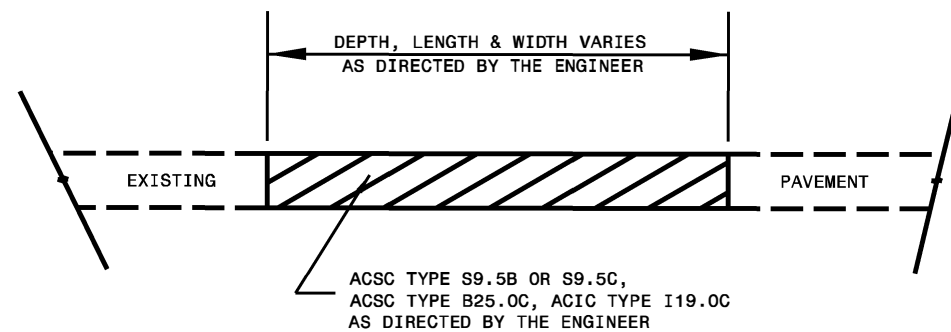
8

C1	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT
V1	MILL ASPHALT PAVEMENT, 1 1/2" DEPTH
V2	MILL ASPHALT PAVEMENT, 0-1 1/2" DEPTH



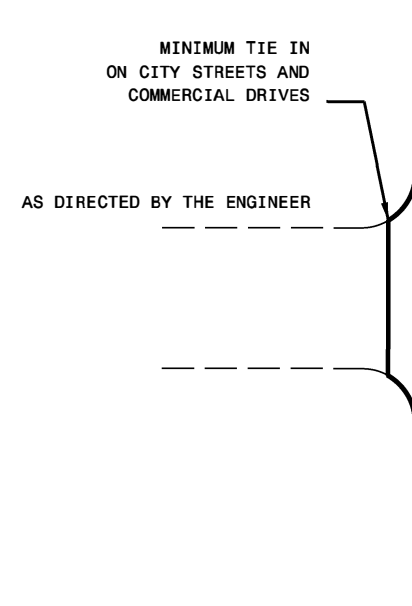
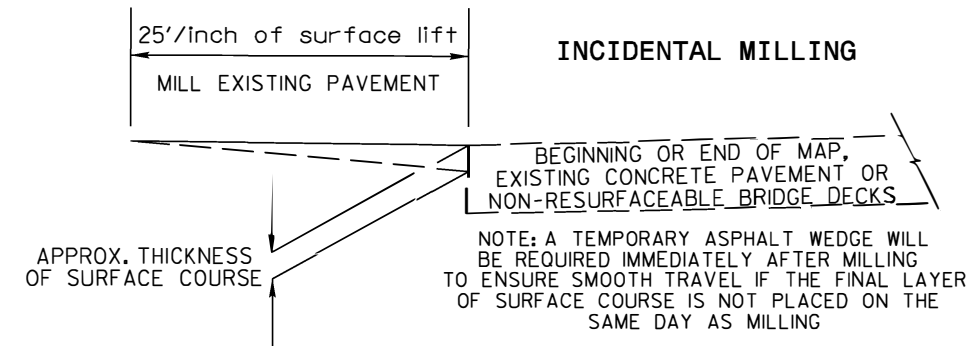
NOTES

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.

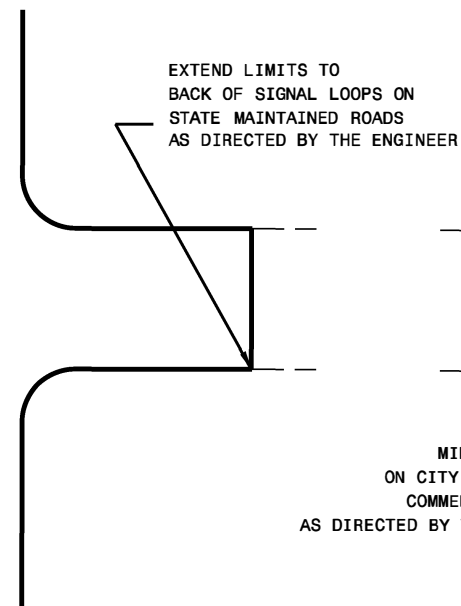


PATCHING EXISTING PAVEMENT

MILLING TO BE PERFORMED PRIOR TO PATCHING

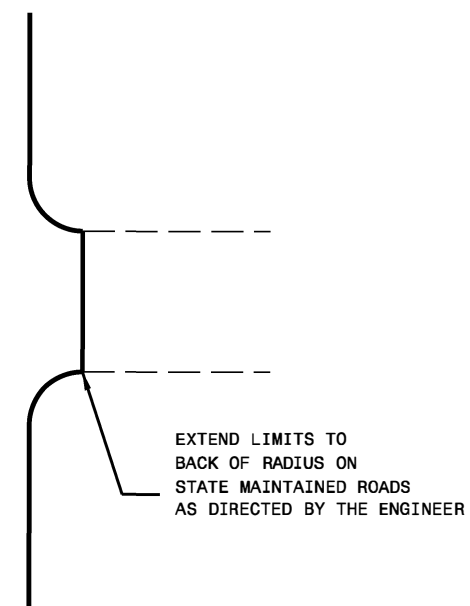


DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES



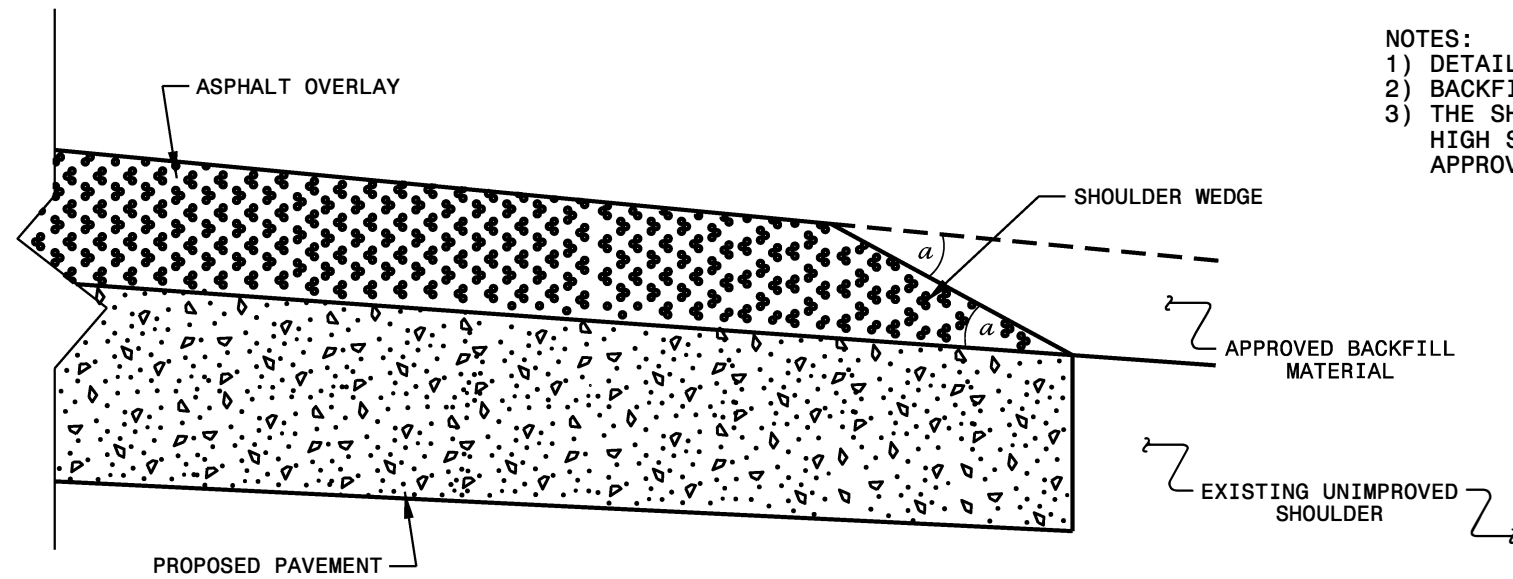
MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES AS DIRECTED BY THE ENGINEER

DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES



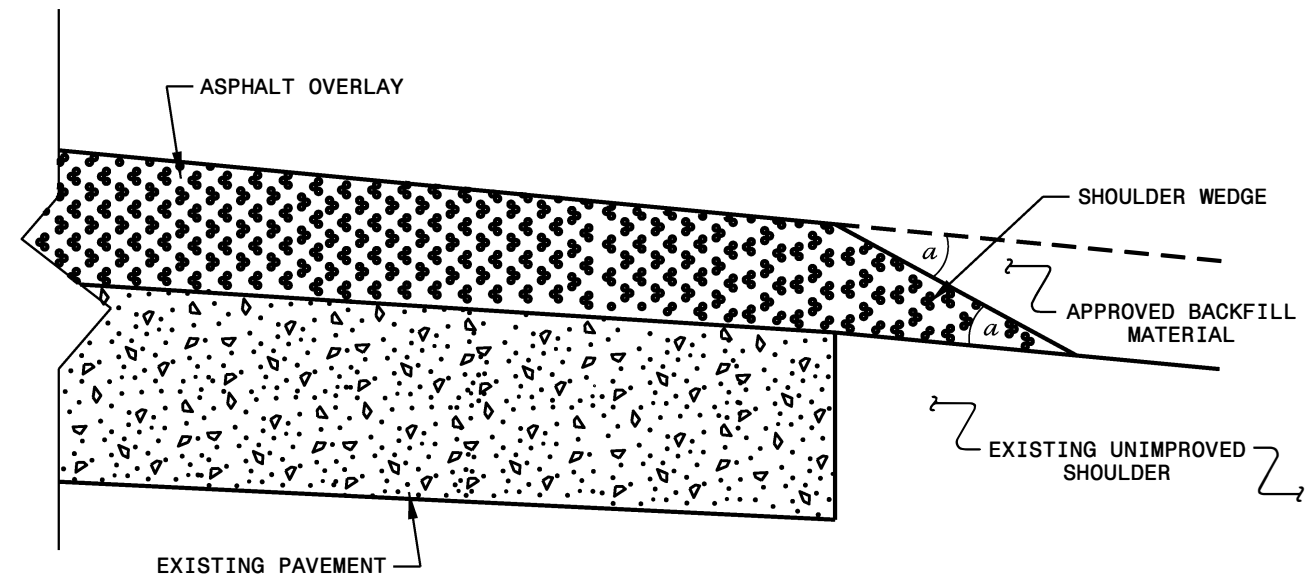
**NOTES:**

- 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.



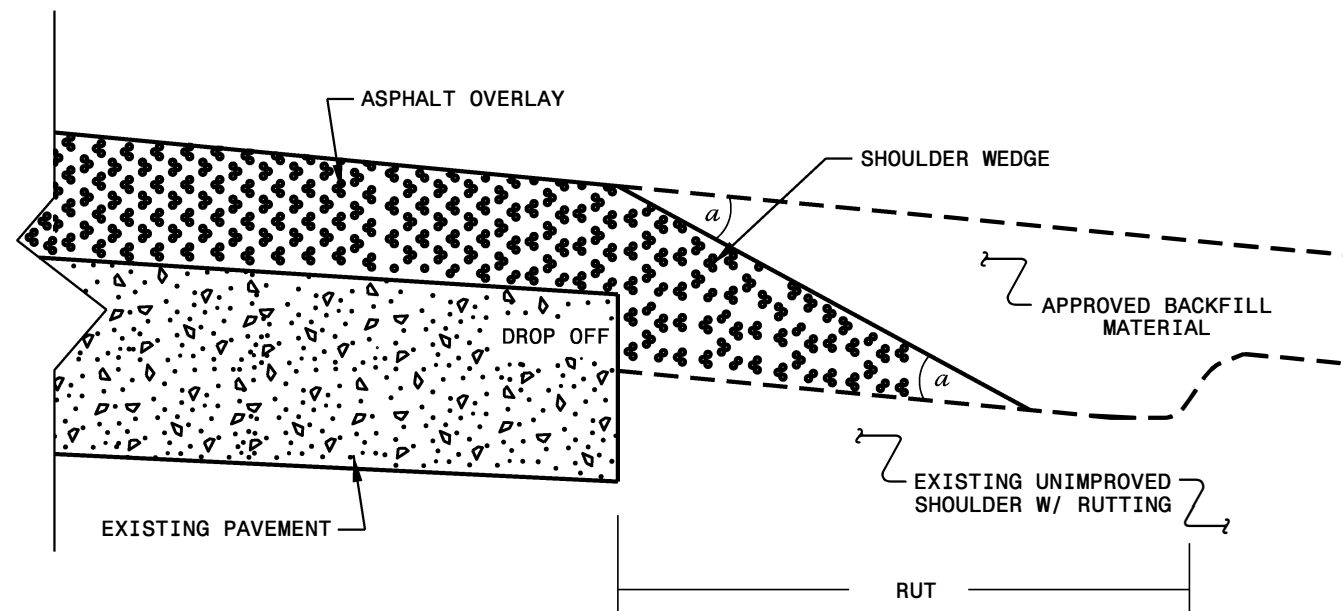
**SHOULDER WEDGE DETAIL**

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



**SHOULDER WEDGE DETAIL**

(Resurfacing Projects w/ NO Widening)



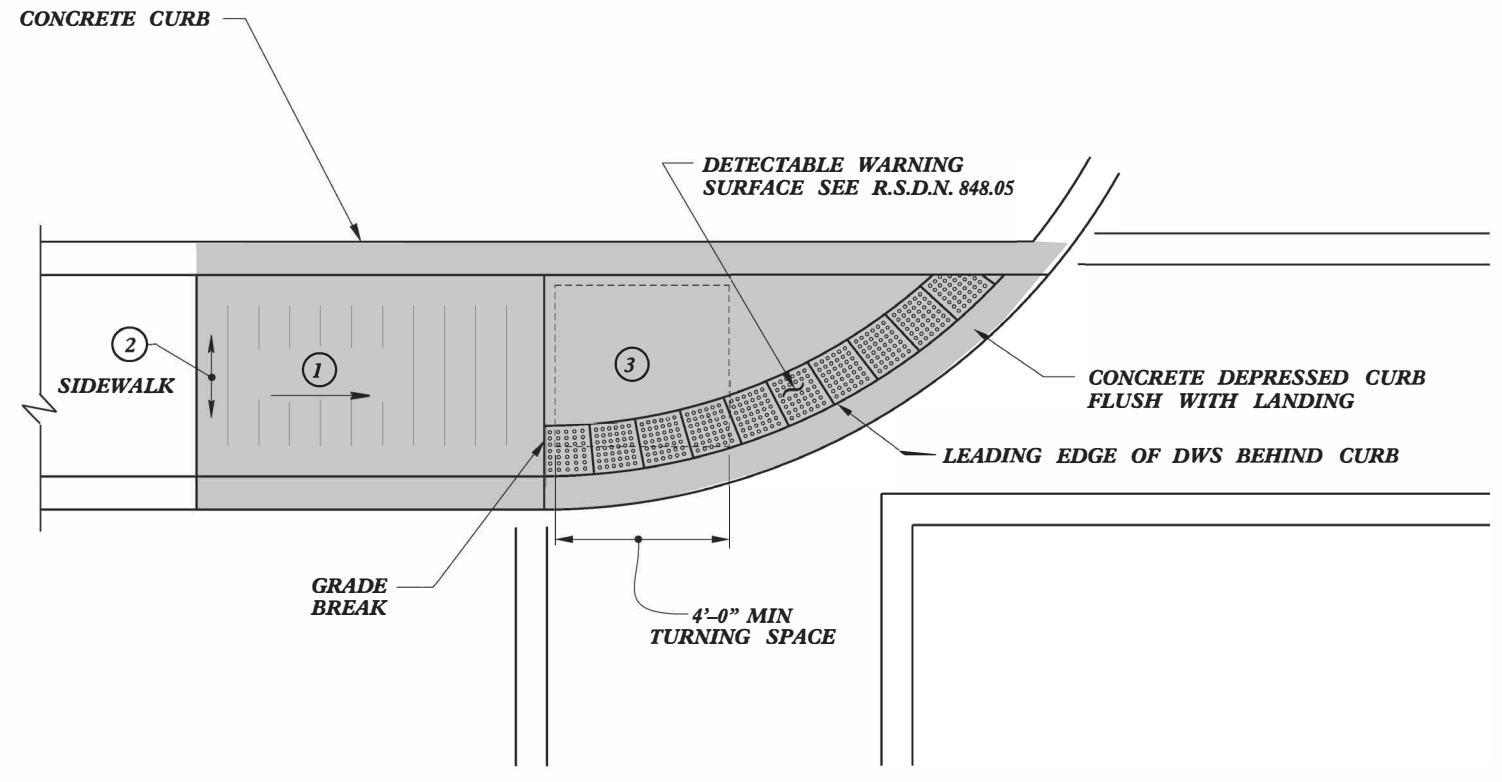
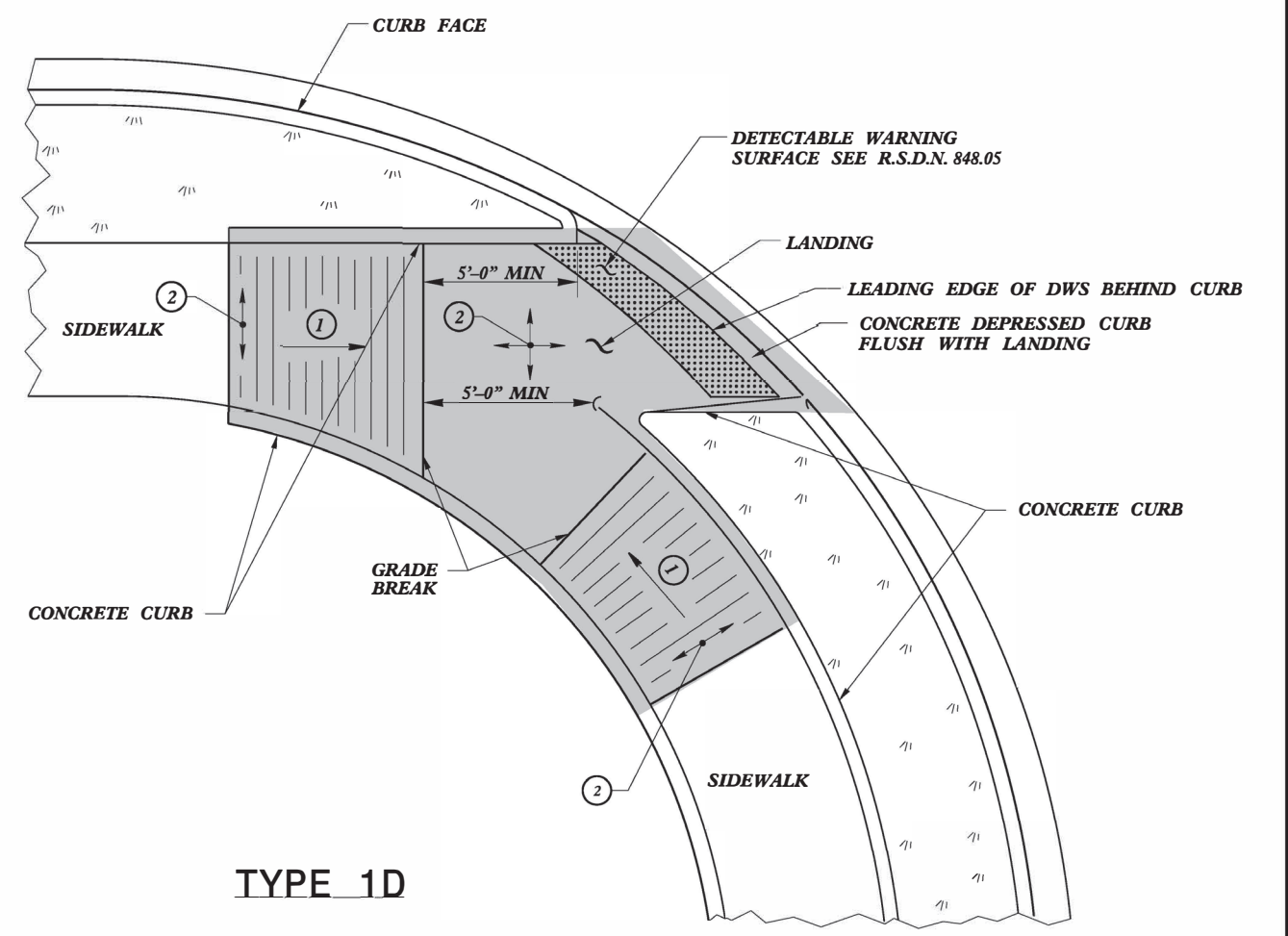
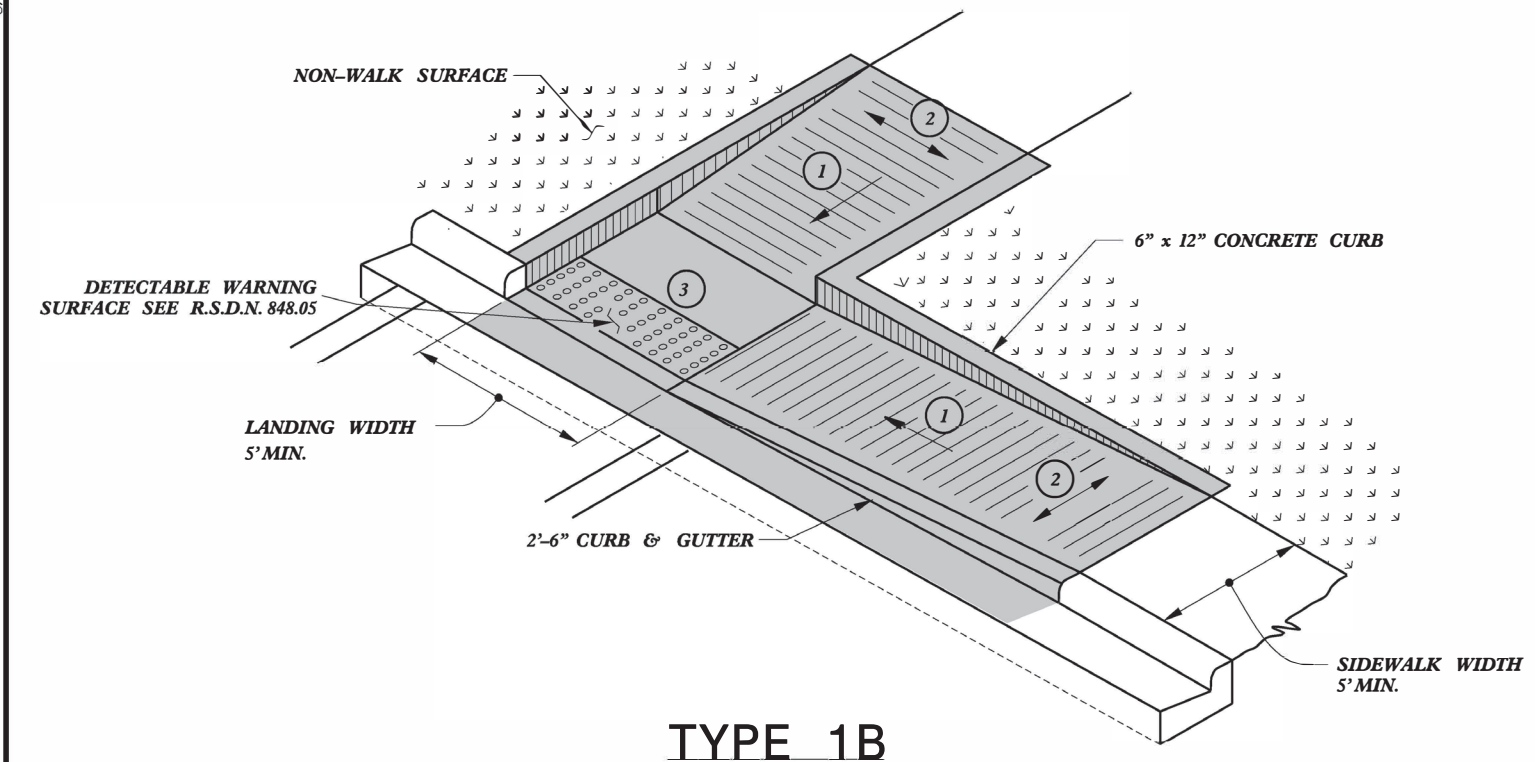
**SHOULDER WEDGE DETAIL**

(Resurfacing Adjacent to Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

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

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

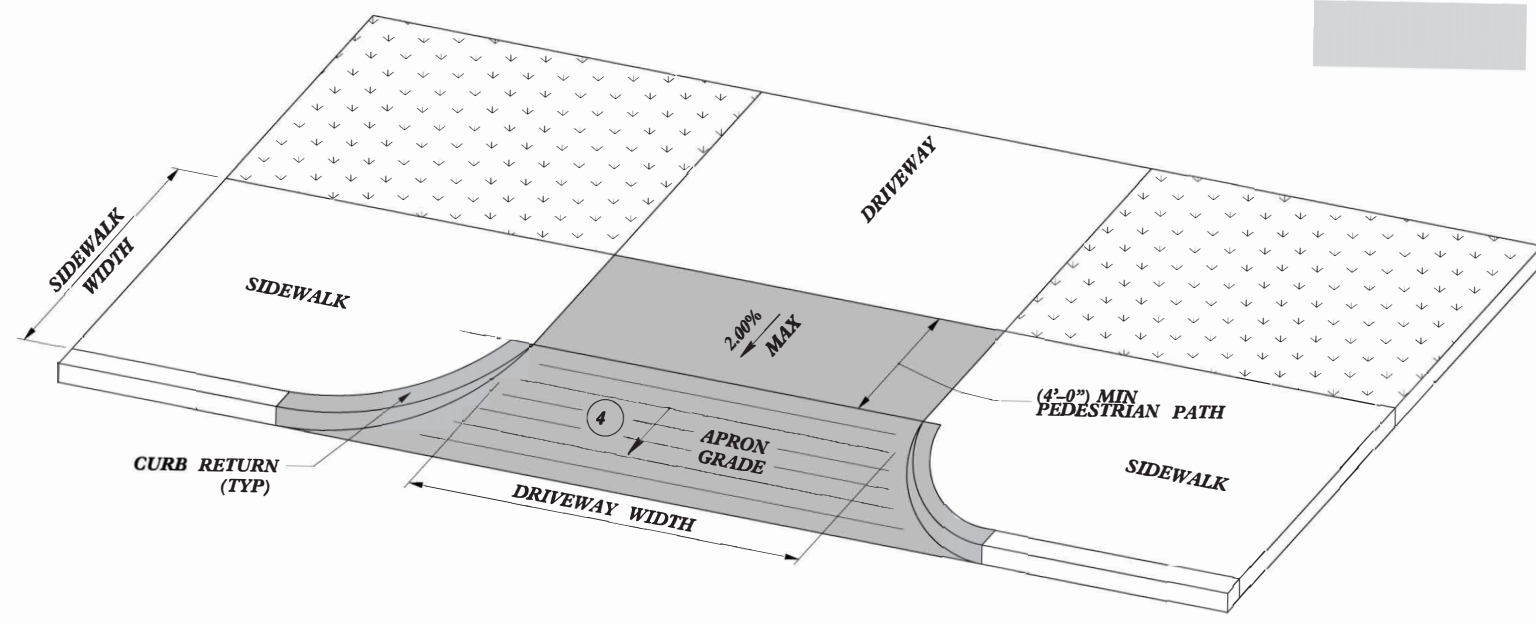
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950    FAX 919-250-4119	
<b>CURB RAMPS</b>	
Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dwg	

SYSTEMS  
 DESIGN  
 GROUP  
 1000  
 EAST  
 7TH  
 STREET  
 SUITE  
 200  
 RALEIGH  
 NC 27601  
 919-977-0800  
 WWW.SYSDG.COM

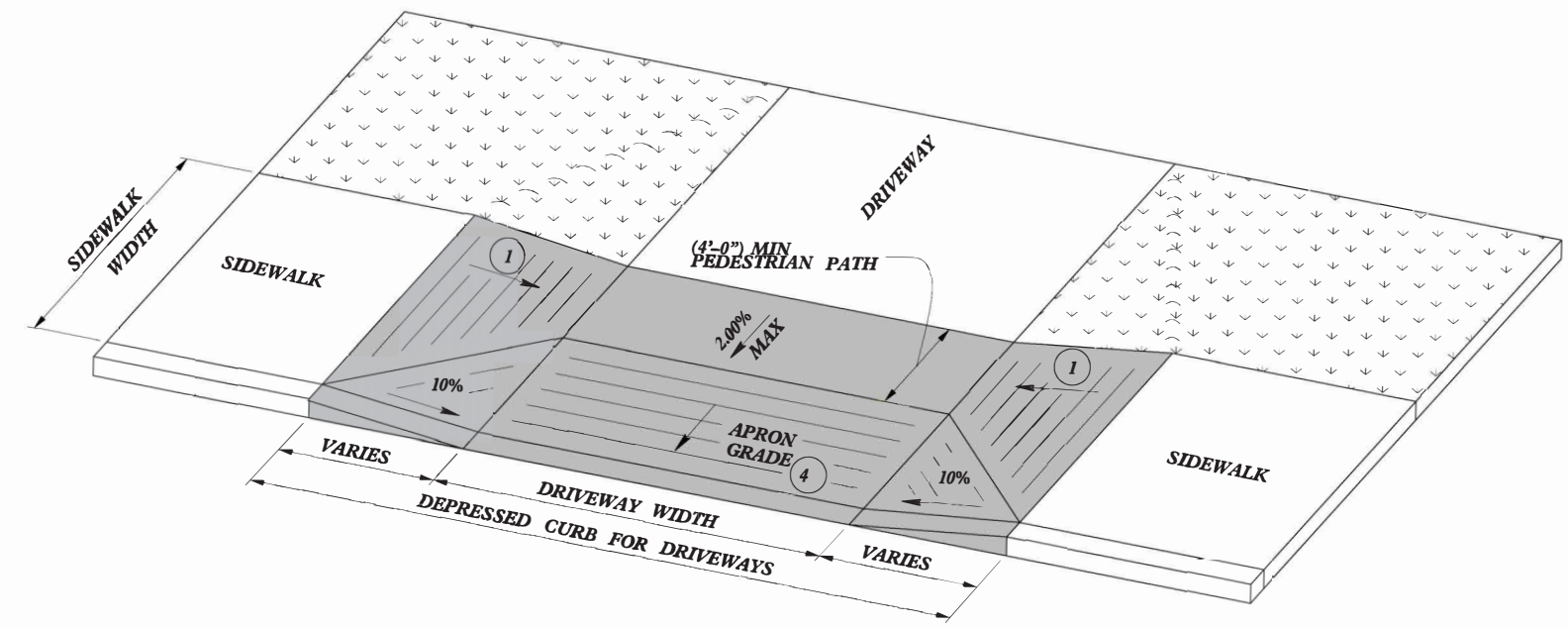


5/14/99

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 4 8.00% MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY



**DRIVEWAY APRON**  
**OPTION 1**



**DRIVEWAY APRON**  
**OPTION 2**

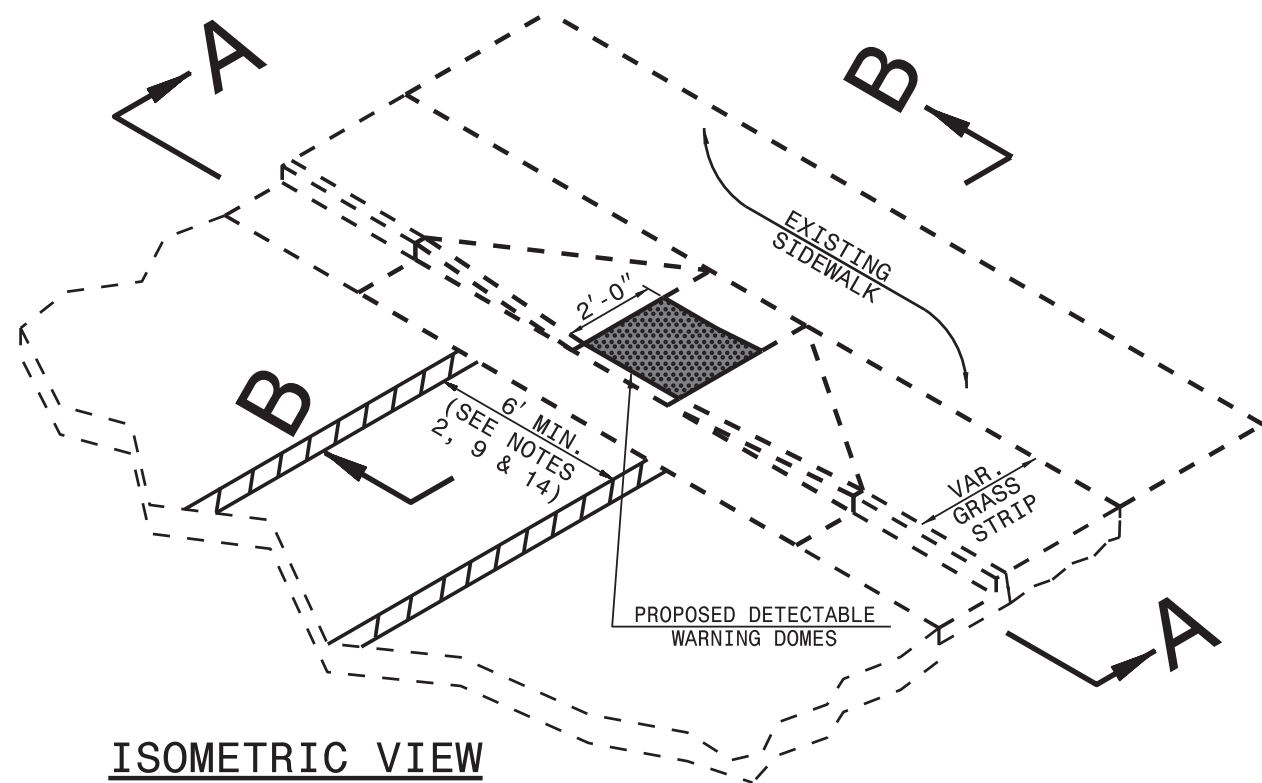
-SEE ROADWAY DETAIL DRAWING 848.05 FOR DETECTABLE WARNING SURFACE AND FOR RAMP NOTES.  
-SEE ROADWAY STANDARD DRAWING 848.02 FOR CONCRETE DRIVEWAYS.



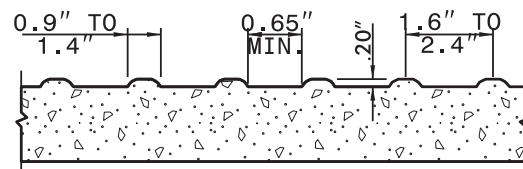
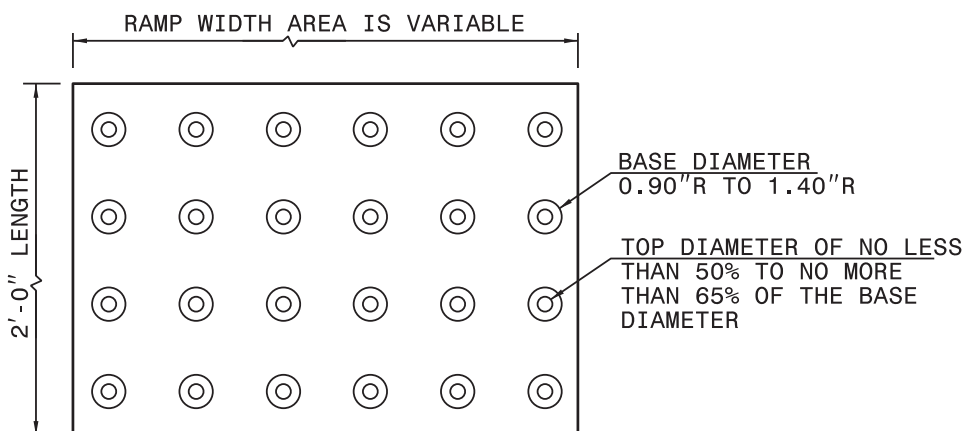
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
@ DRIVEWAY OPENINGS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

SYSTEMS  
 CONSULTANTS  
 ENGINEERS  
 ARCHITECTS  
 PLANNERS  
 INC.



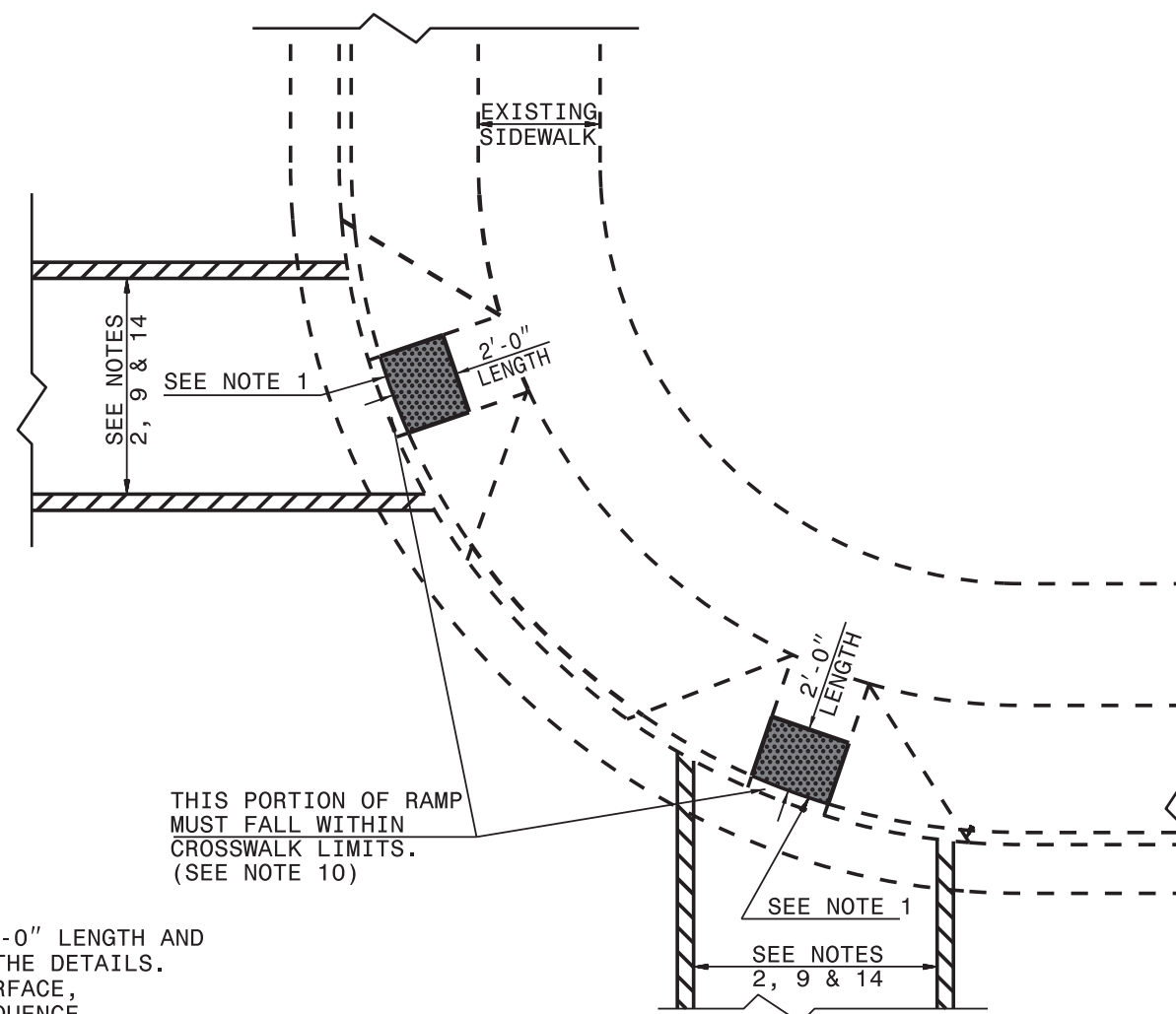
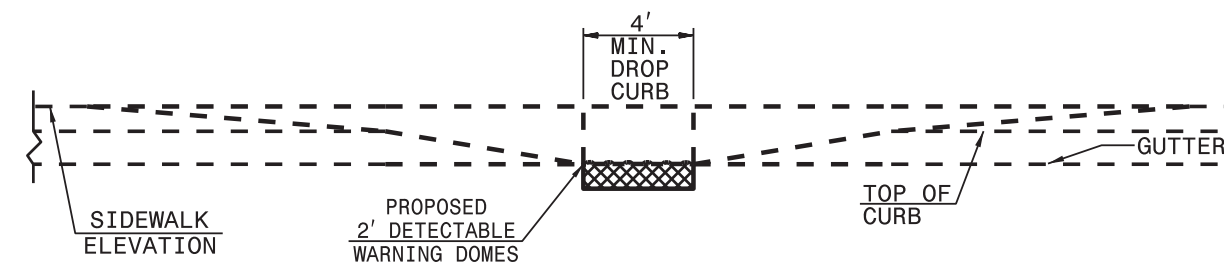
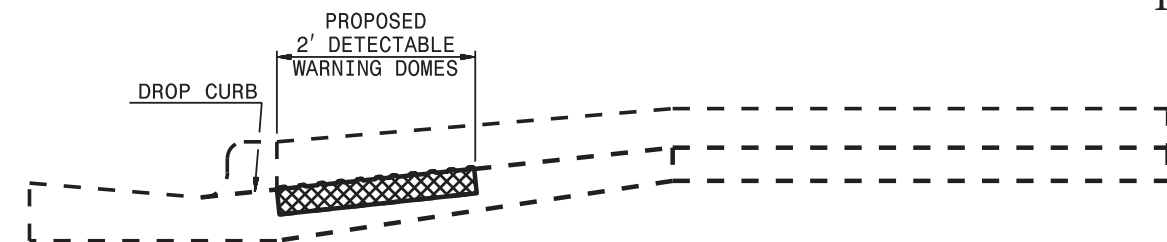


■ PAY LIMITS OF RETROFIT CURB RAMP



- 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.

**DETECTABLE WARNING DOMES**



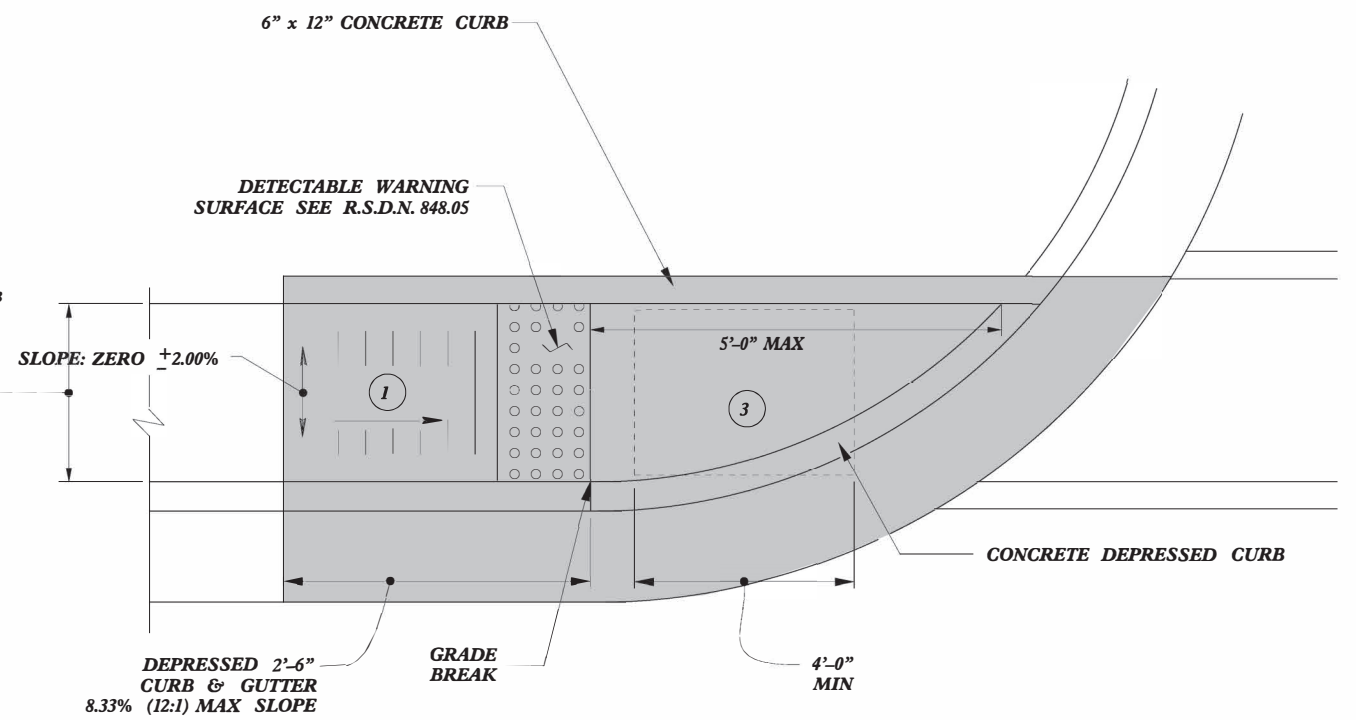
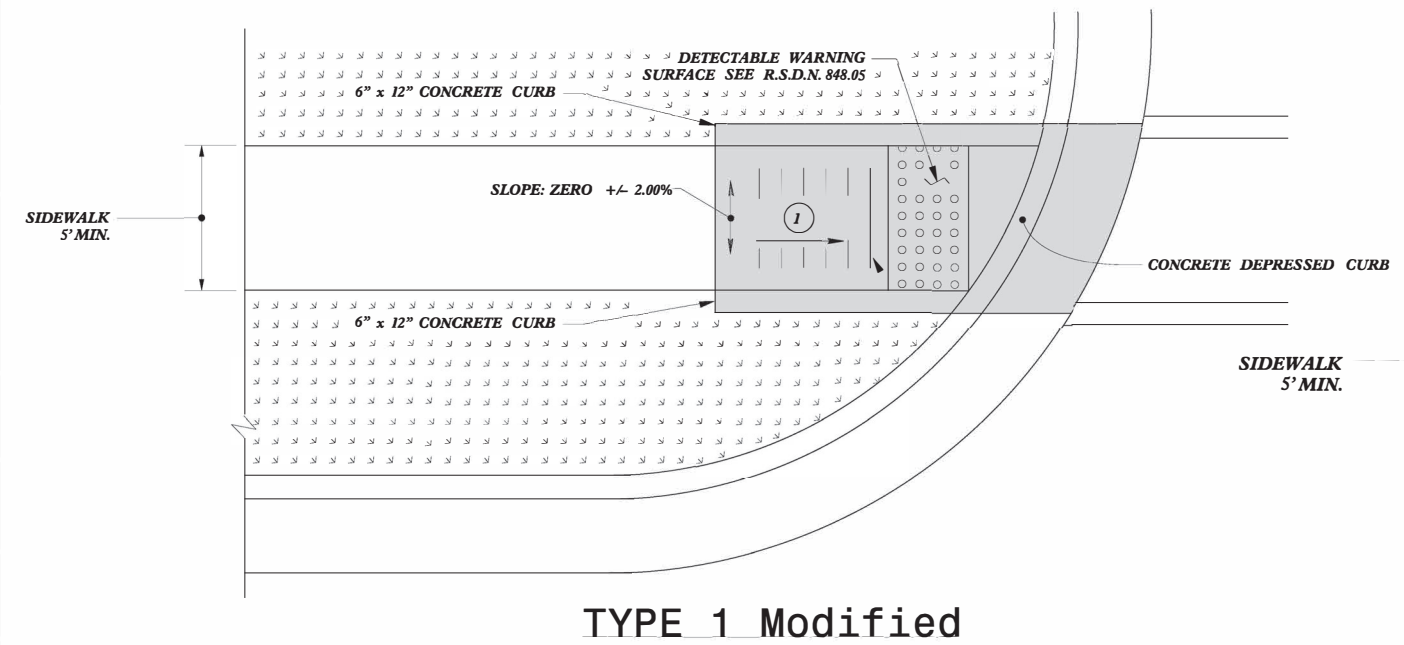
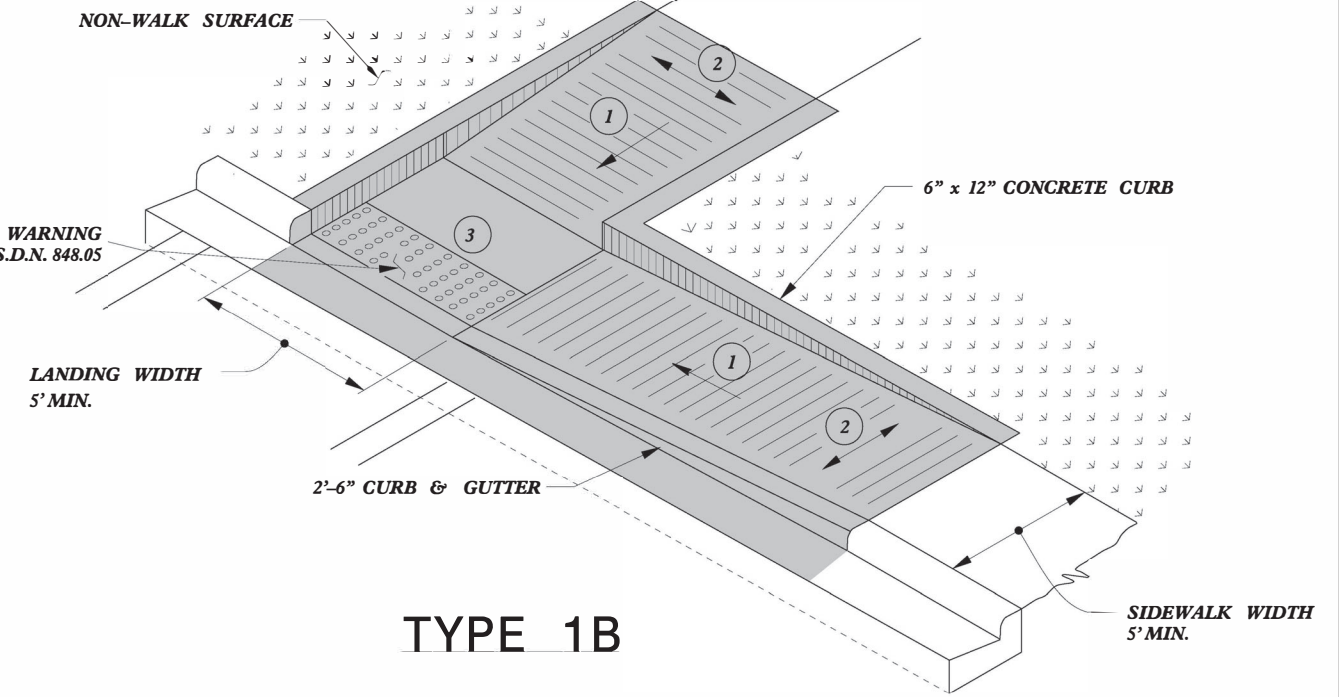
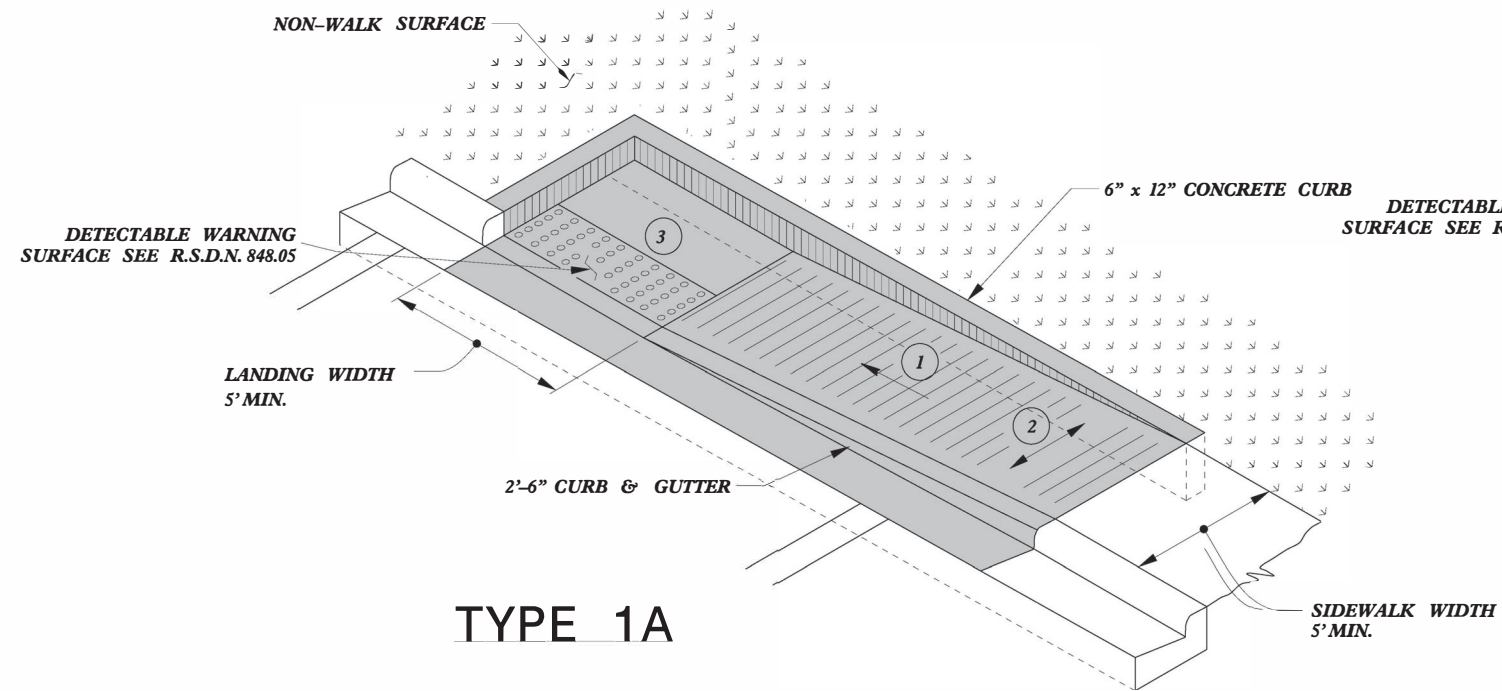
DUAL RAMPS  
ANY RADII  
(40" MIN. FLOOR WIDTH)

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

1-18

ROADWAY STANDARD DRAWING FOR

**CURB RAMP**  
EXISTING CURB AND GUTTER



- 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

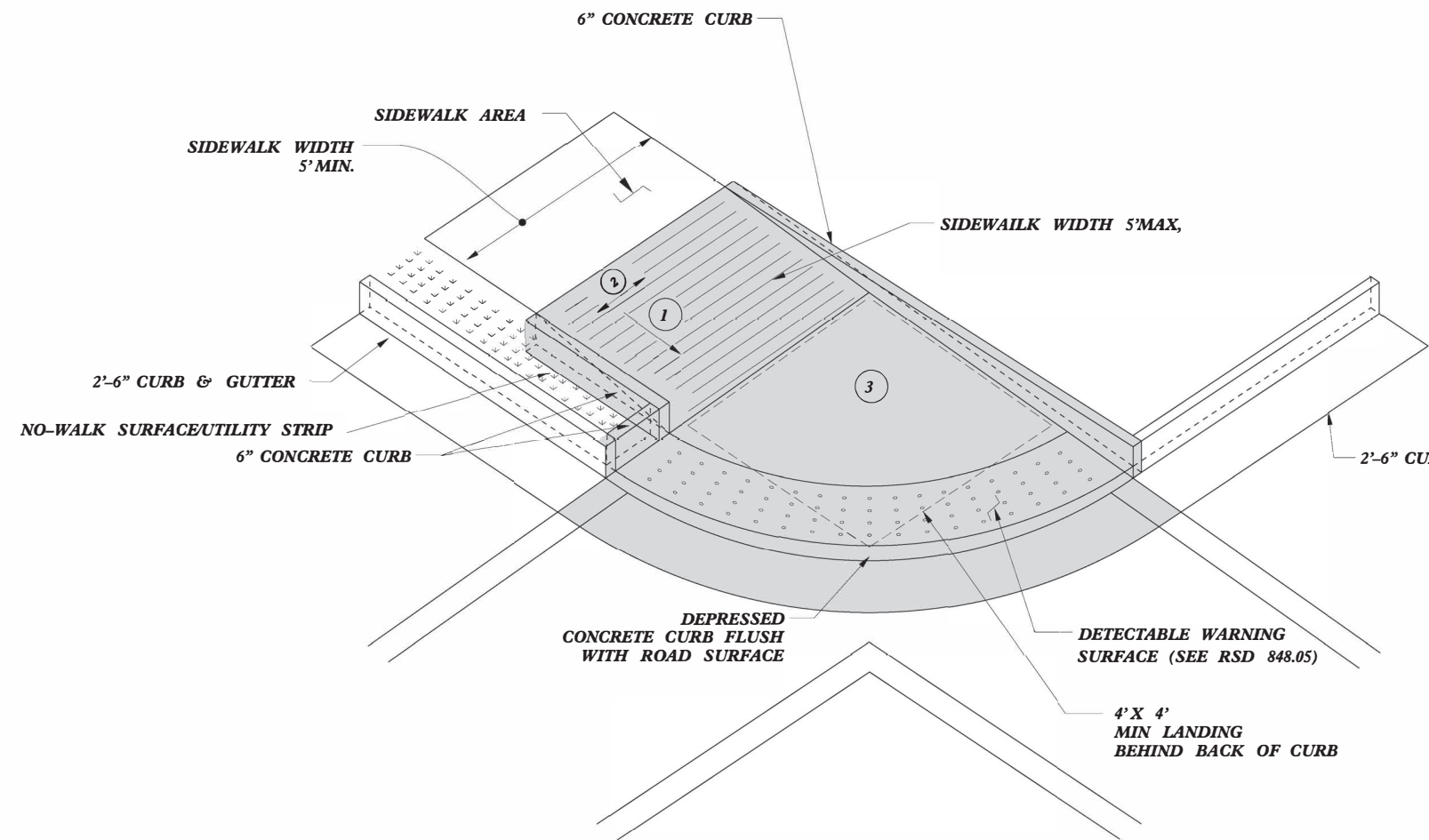
**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**CURB RAMPS**  
Directional Ramps

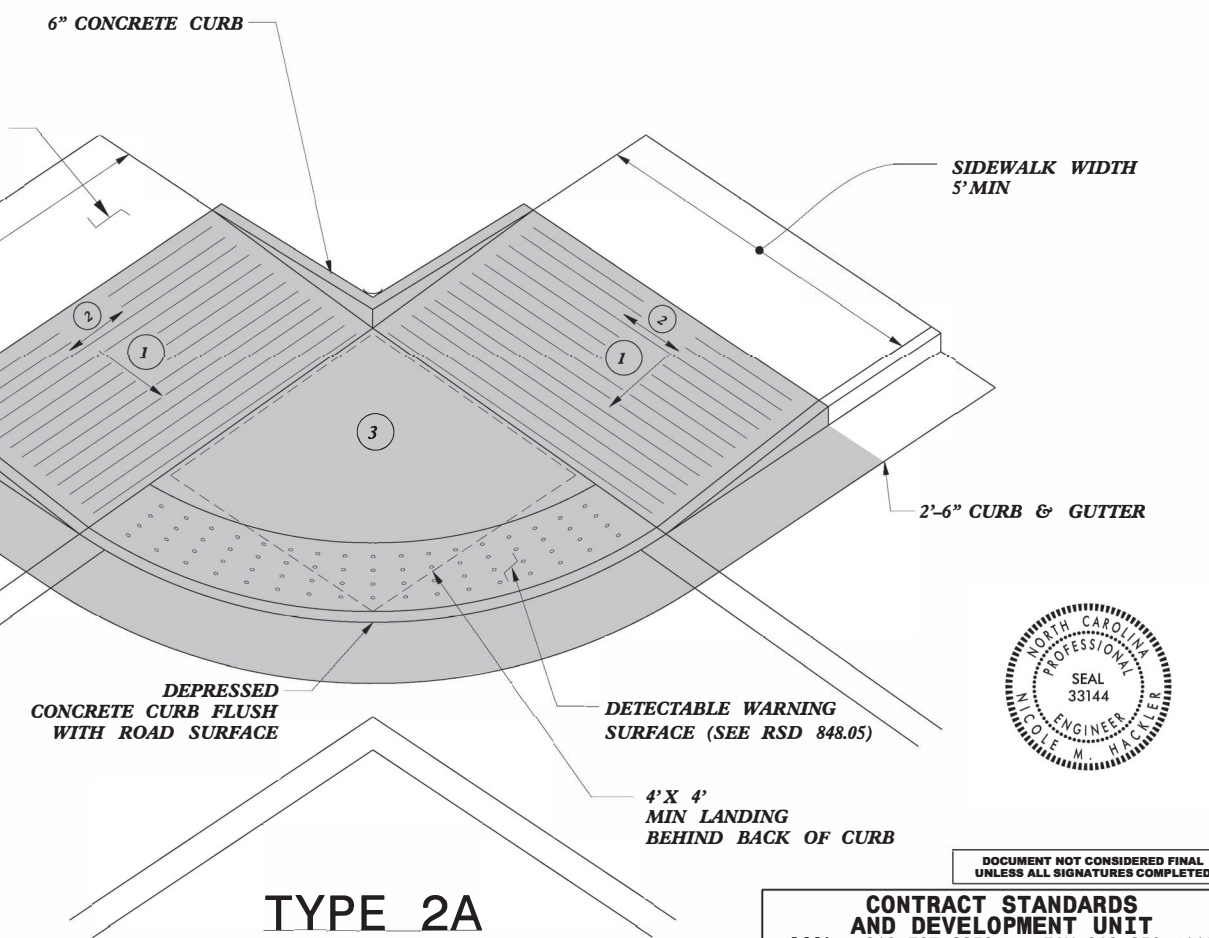
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 MODIFIED BY: DATE: \_\_\_\_\_  
 CHECKED BY: DATE: \_\_\_\_\_  
 FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn

5/14/99  
 \$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$\$\$PUSERNAME\$\$\$\$\$

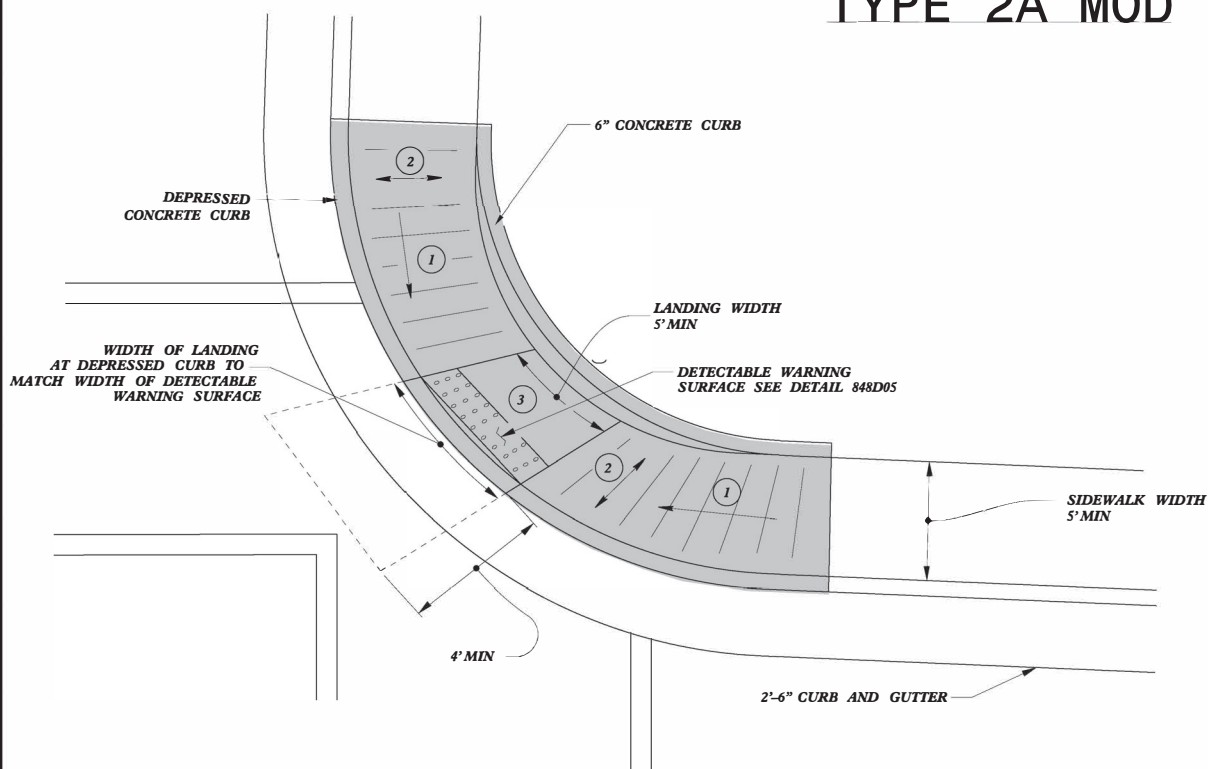




**TYPE 2A MOD**



**TYPE 2A**



**TYPE 2B**

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

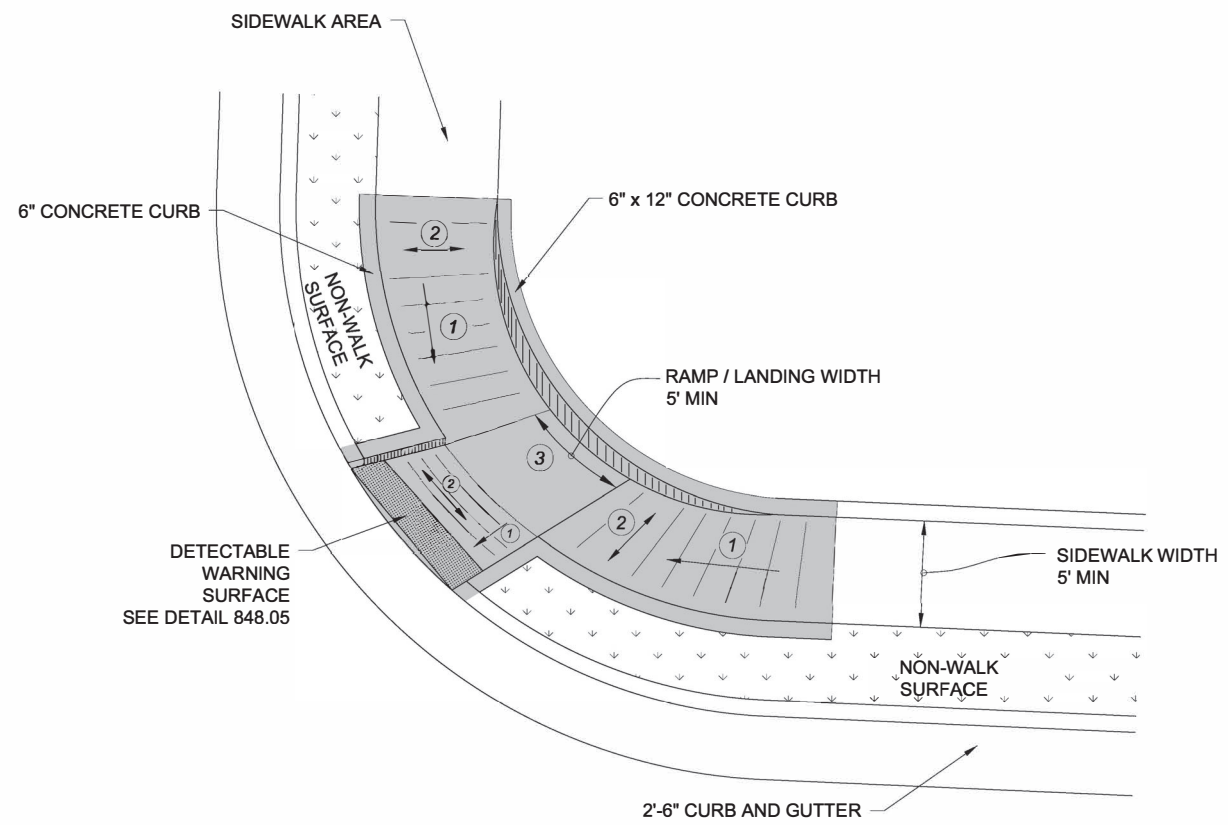


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

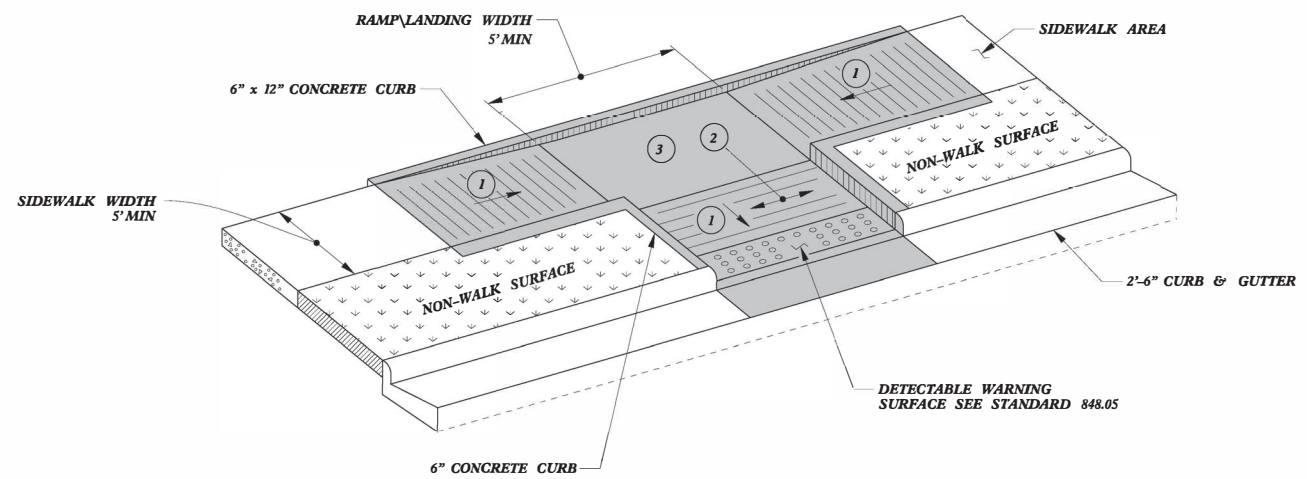
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. sids/2012CurbRamp/CurbRampDetails.dgn	

5/14/99  
SYTIME  
PUSNAME

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

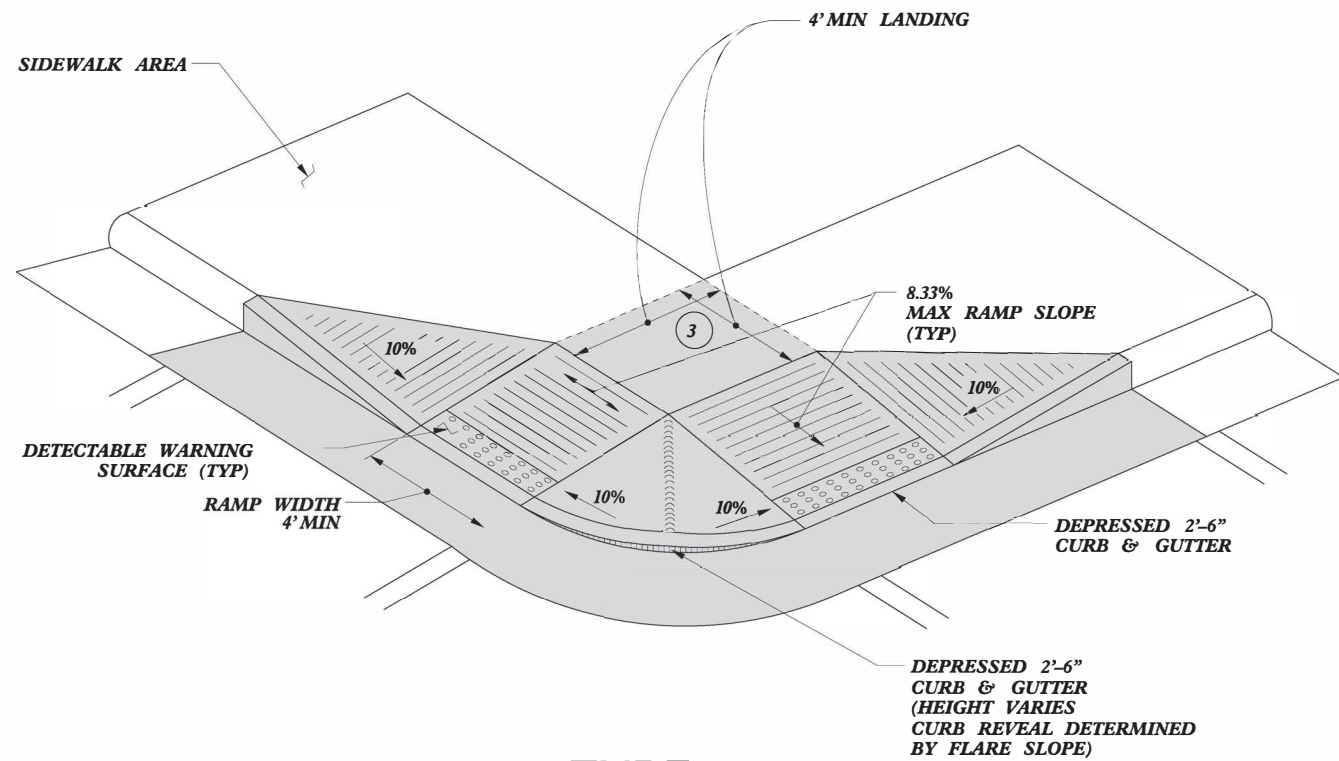
**CURB RAMPS**

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

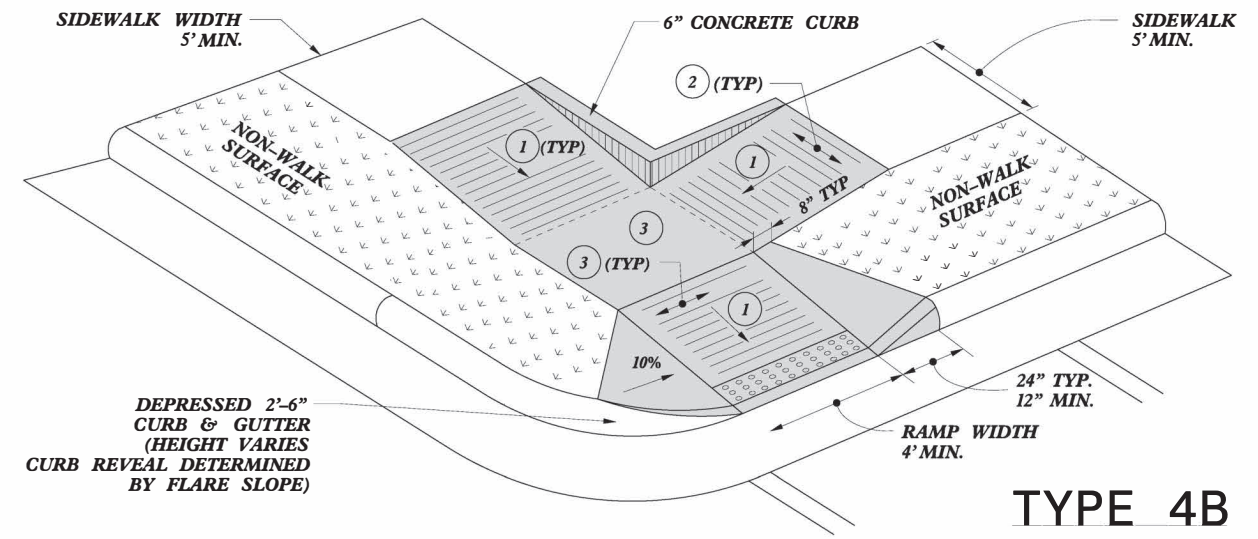
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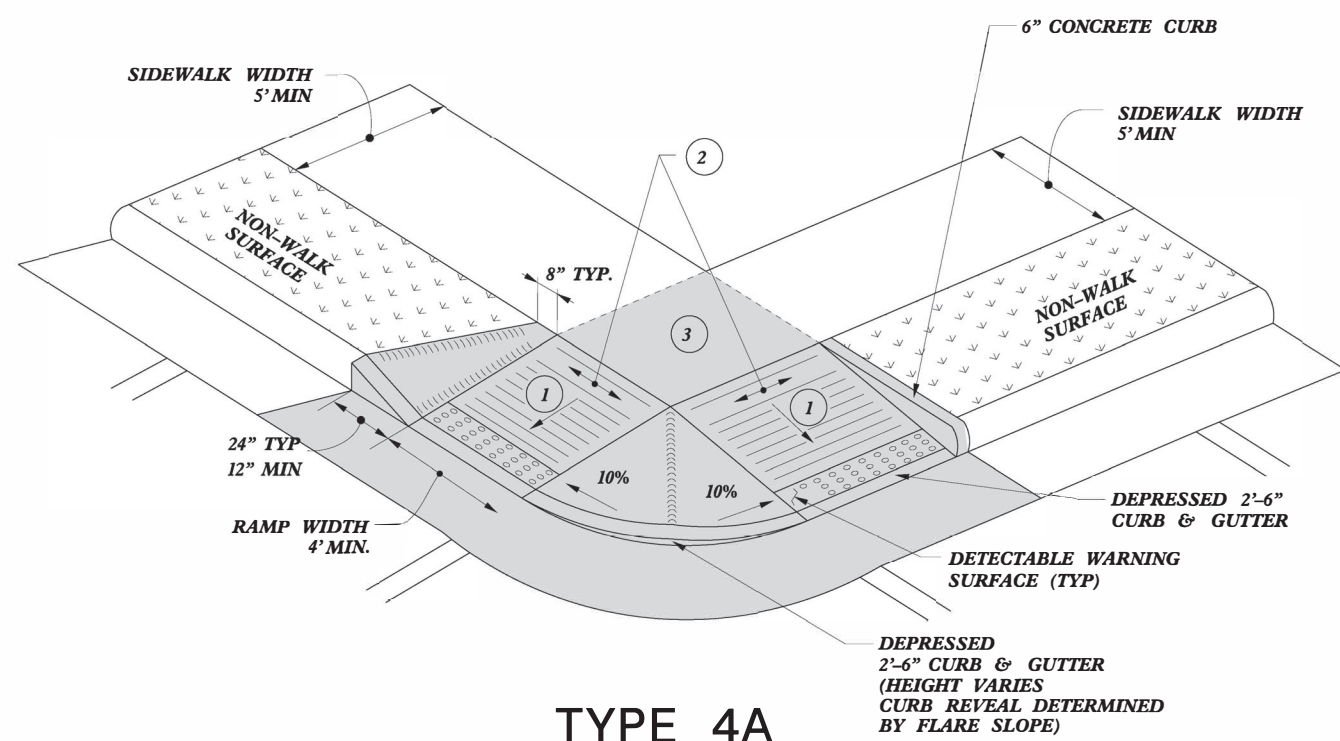
PAY LIMITS FOR 1 OR 2 CURB RAMPS  
(CALCULATE BASED ON NUMBER OF SETS  
OF TRUNCATED DOMES)



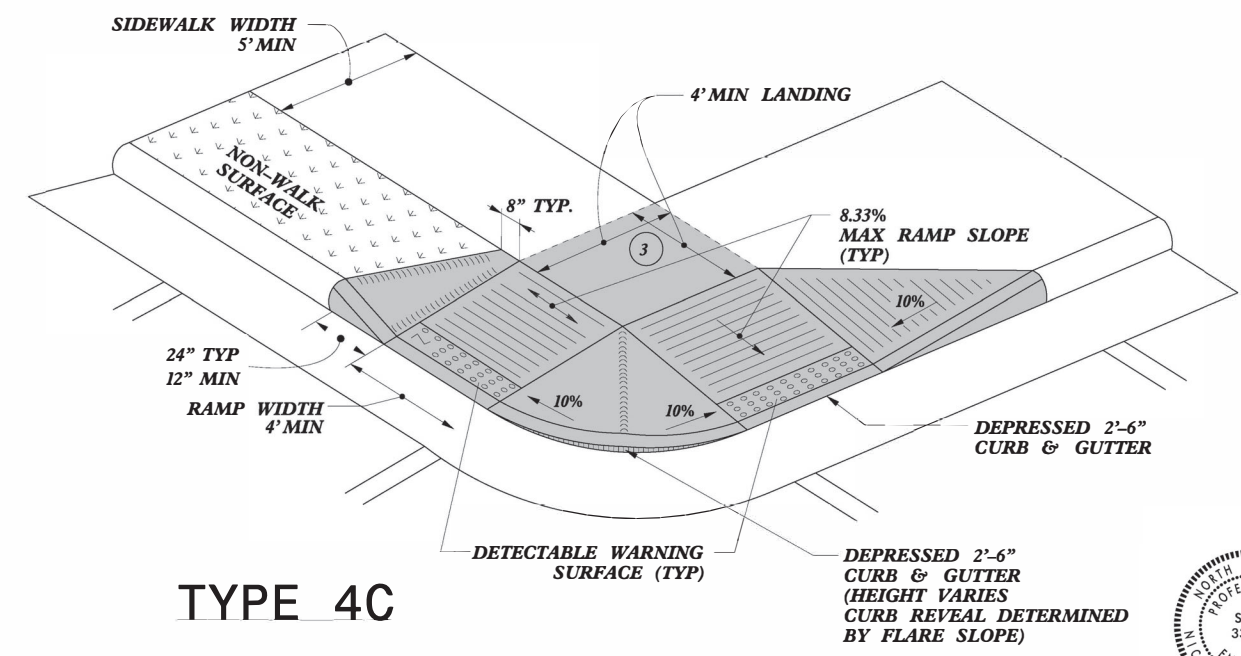
**TYPE 4**



**TYPE 4B**



**TYPE 4A**



**TYPE 4C**

- 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.



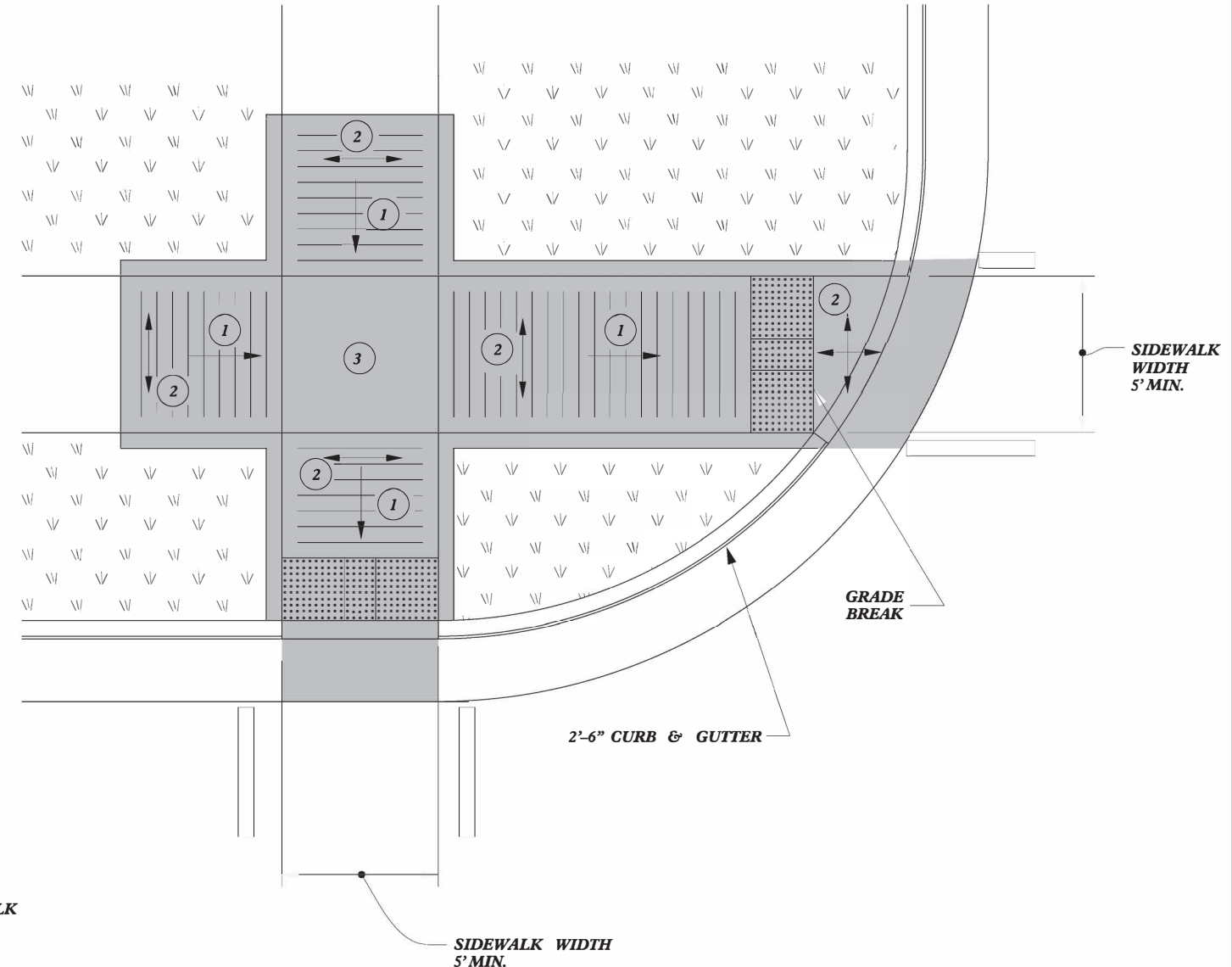
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

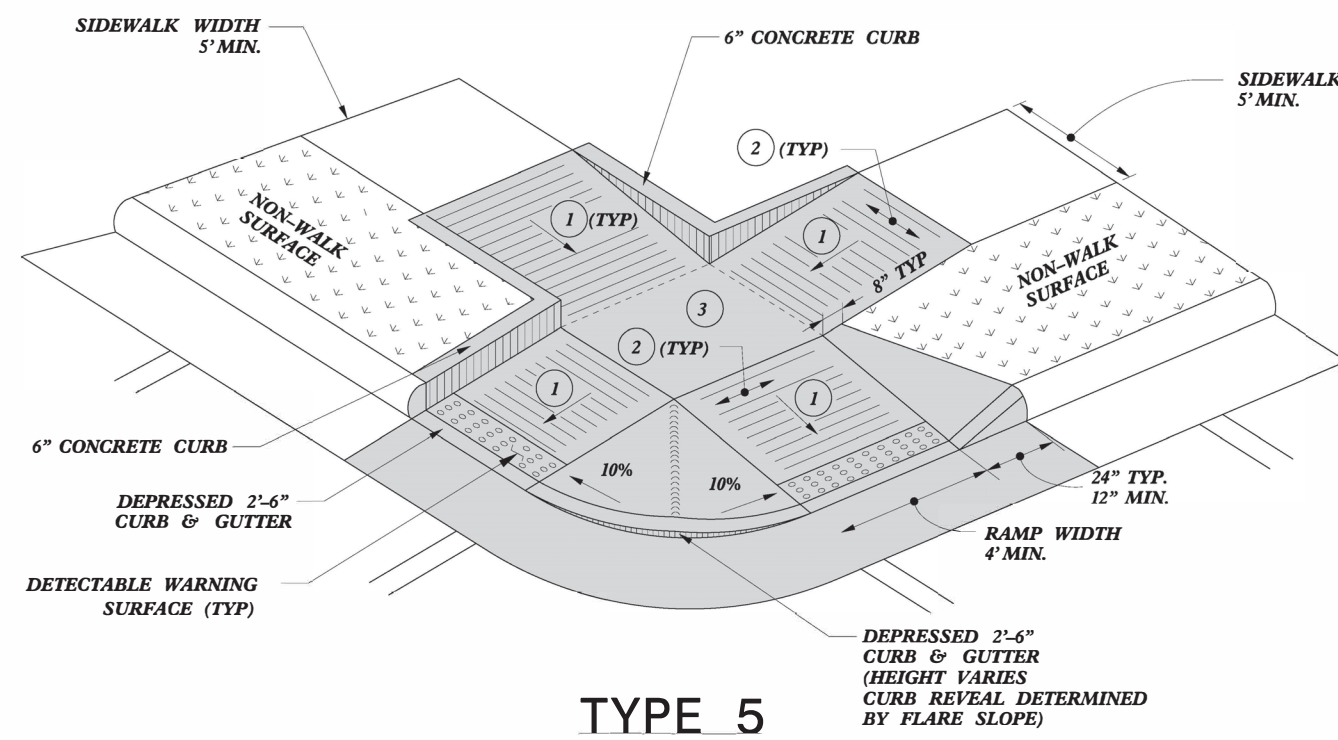
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99  
\$\$\$\$SYTIME\$\$\$\$  
\$\$\$\$USERNAME\$\$\$\$

**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.



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

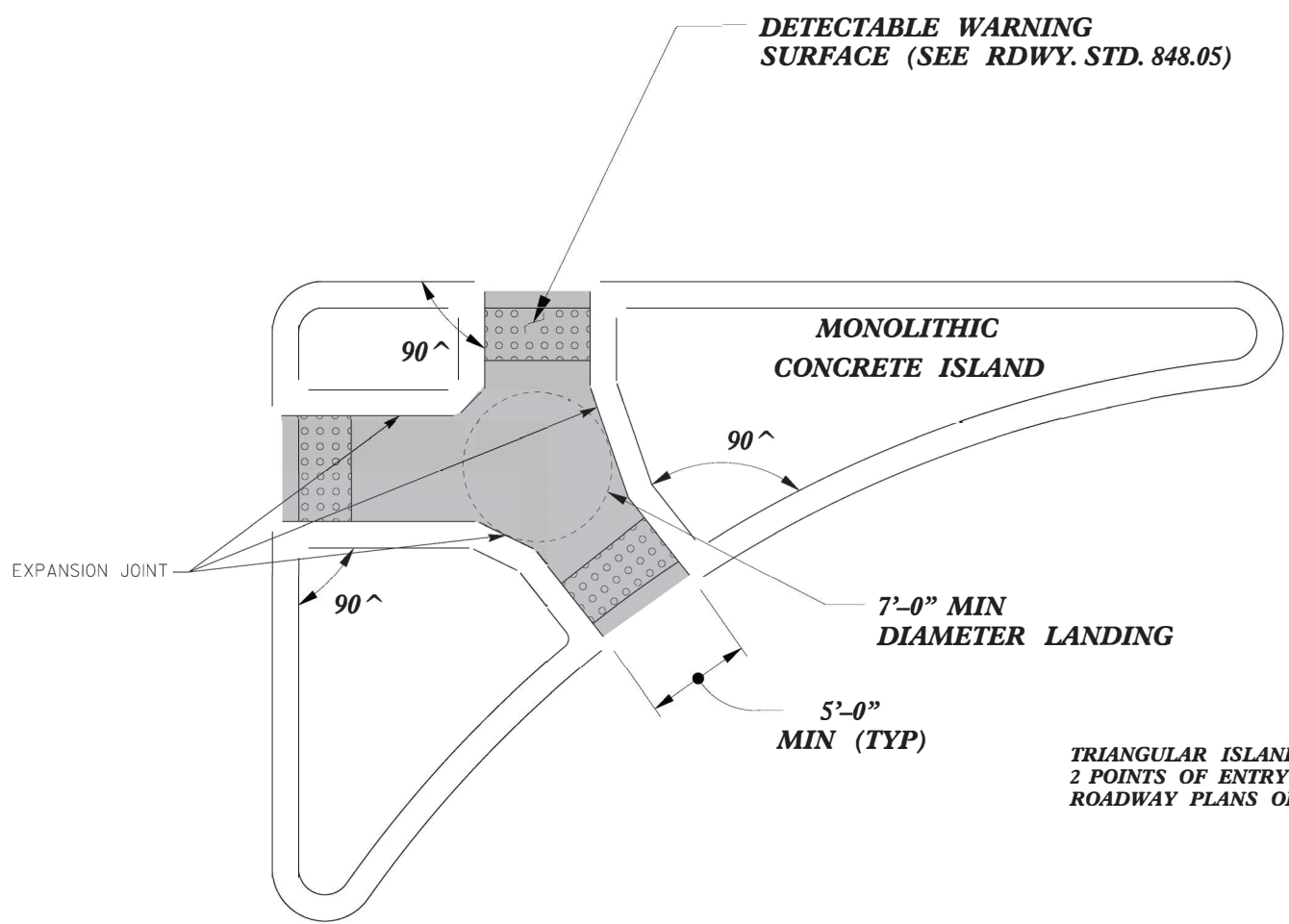
**CURB RAMPS**

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

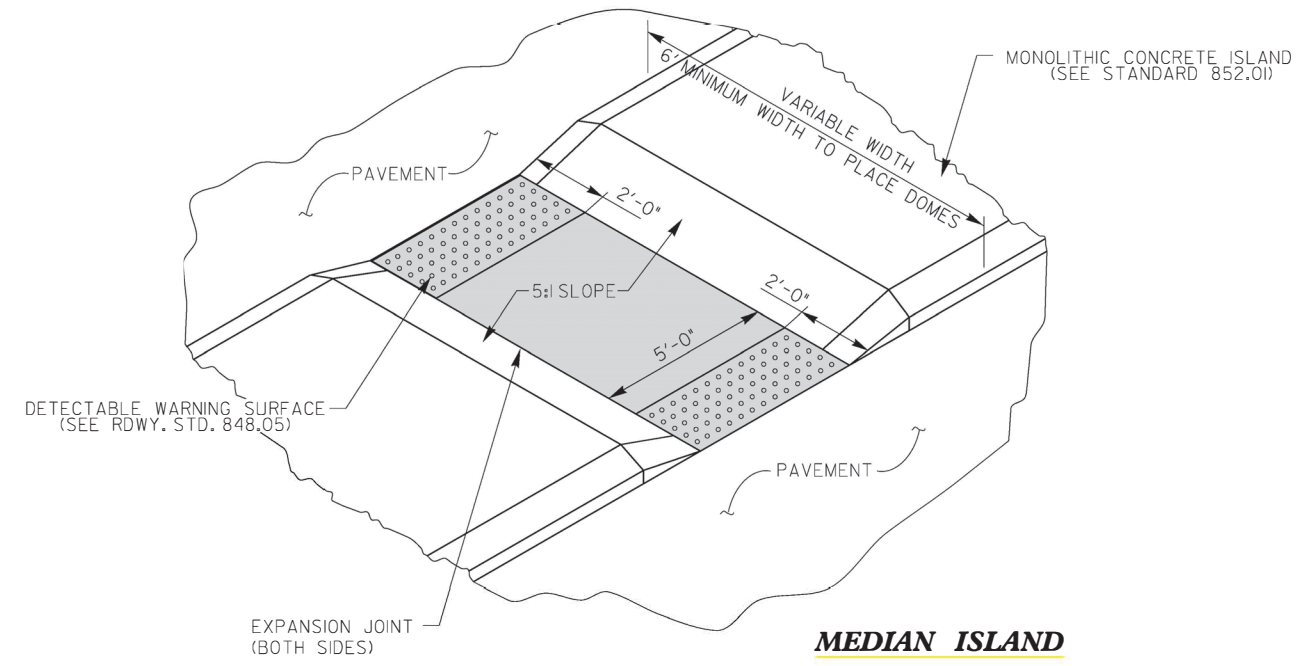
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99  
 SYSTEMS  
 CONSULTING  
 ENGINEERS

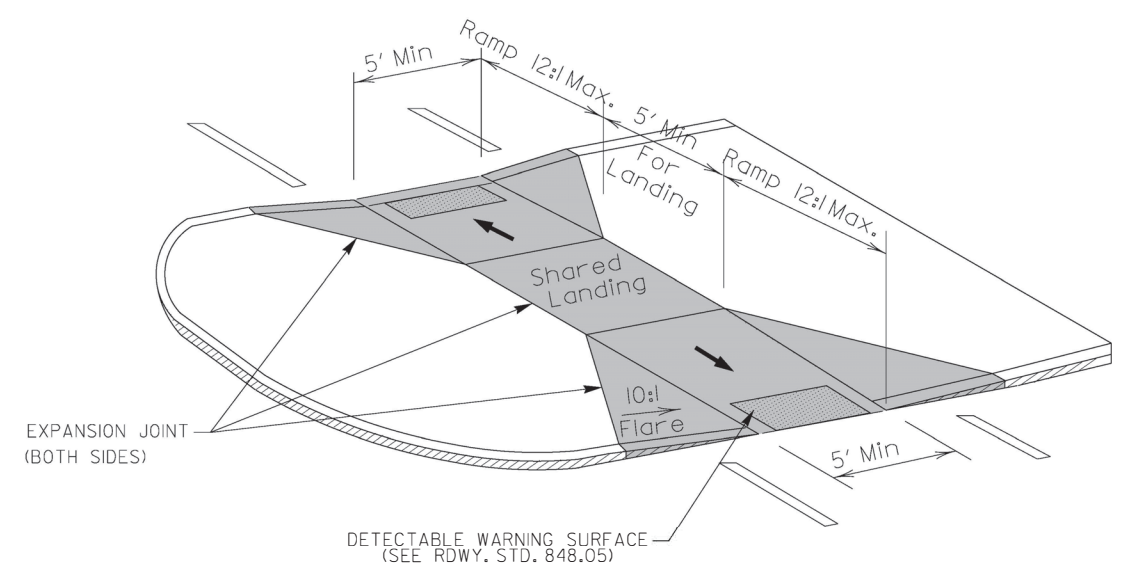
**PAY LIMITS FOR 2 OR 3 CURB RAMPS  
(CALCULATE BASED ON NUMBER OF  
SETS OF TRUNCATED DOMES)**



**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

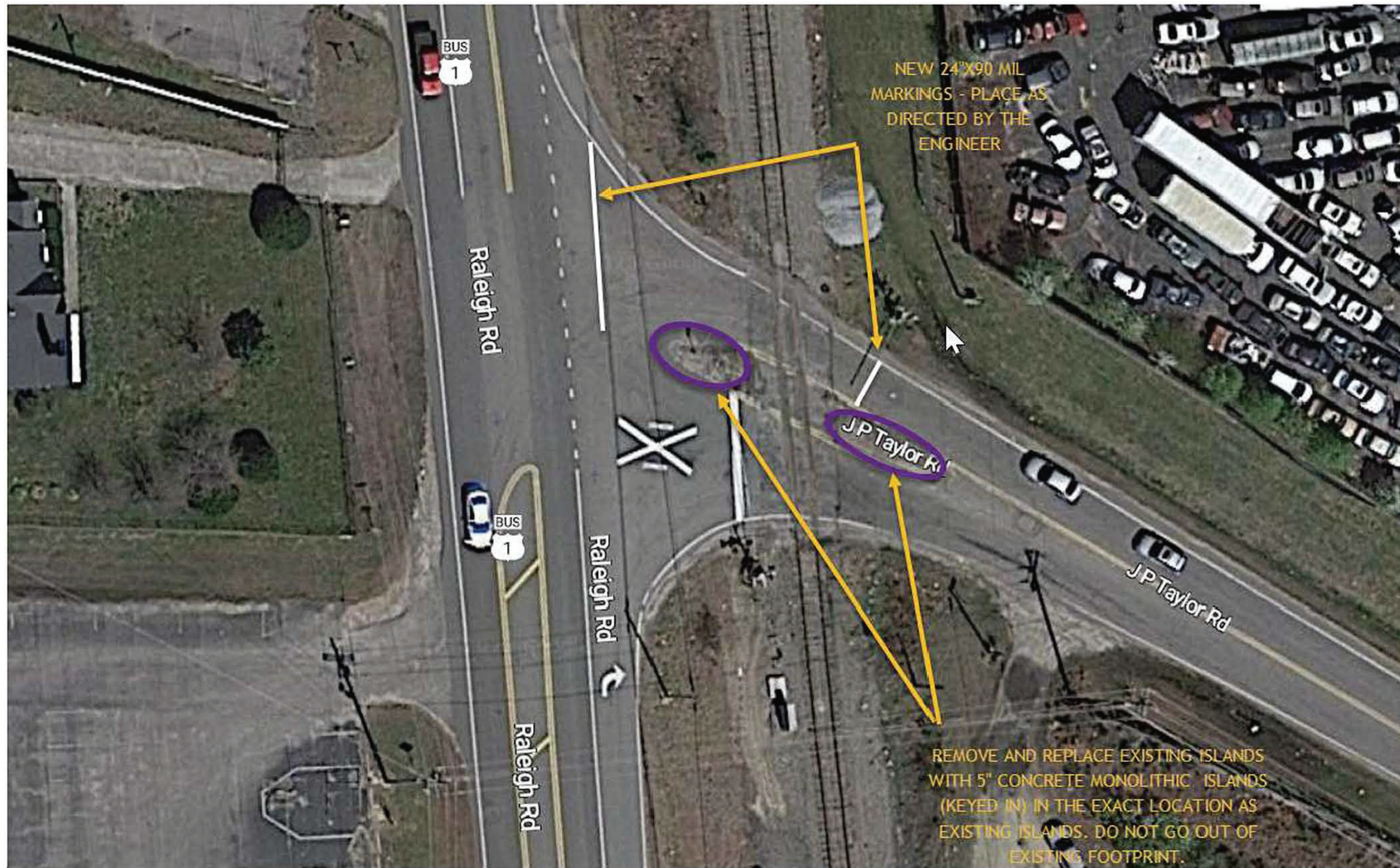
**CURB RAMPS**  
Median or Turn Lane Islands

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



5/14/99  
SYSTEMS  
SERVICES







ADA SUMMARY OF QUANTITIES - TOTALS

Project Number:	2024 Vance
WBS Number:	2023CPT.05.10.20911.1
County:	Vance

Project Number	County	Municipality	Resurfacing Route	4447000000-E	4600000000-N	4600000000-N	2549000000-E	2738000000-E	2613000000-N	2605000000-N	2759000000-N
				Pedestrian Channelizing Devices LF	Pedestrian Transport Service EA	Audible Warning Device EA	2'-6" Concrete Curb & Gutter LF	Remove and Replace Sidewalk SY	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA
2024 Vance	Vance	Henderson	Dabney Dr Ext From US 158 BUS To US 1 BUS	60	10	2	60	0	1	0	4
2024 Vance	Vance	Henderson	N. Chestnut St From NC 39 To Pvmt Jt at SR 1165				0	24	3	4	0
<b>GRAND TOTAL</b>				<b>60</b>	<b>10</b>	<b>2</b>	<b>60</b>	<b>24</b>	<b>4</b>	<b>4</b>	<b>4</b>

ADA SUMMARY OF QUANTITIES - DABNEY DR EXT FROM US 158 BUS TO US 1 BUS

Municipality:	Henderson
Project Number:	2024 Vance
WBS Number:	2023CPT.05.10.20911.1
County:	Vance

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2738000000-E	2613000000-N	2605000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	Remove and Replace Sidewalk SY	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
25178	1	US-158 BUS (Dabney Dr)	Dorsey Ave	15				1	Remove Ramp
25179	1	US-158 BUS (Dabney Dr)	Dorsey Ave	15				1	Remove Ramp
25180	1	US-158 BUS (Dabney Dr)	Dorsey Ave			1			Type1A
24716	2	US-1 BUS (Raleigh Rd)	SR-1267 (Dabney Drive Ext)	15				1	Remove Ramp
24715	2	US-1 BUS (Raleigh Rd)	SR-1267 (Dabney Drive Ext)	15				1	Remove Ramp
<b>Sub-Total for Dabney Dr Ext From US 158 BUS To US 1 BUS</b>				<b>60</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>4</b>	

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

ADA SUMMARY OF QUANTITIES - N. CHESTNUT ST FROM NC 39 TO PVMT JT AT SR 1165

Municipality:	Henderson
Project Number:	2024 Vance
WBS Number:	2023CPT.05.10.20911.1
County:	Vance

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2738000000-E	2613000000-N	2605000000-N	2759000000-N	Improvement Type
				2'-6" Concrete Curb & Gutter LF	Remove and Replace Sidewalk SY	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
7480	1	SR-1226 (N Chestnut St)	NC-39 (W Andrews Ave)		12	1			Type2A
7478	1	SR-1226 (N Chestnut St)	NC-39 (W Andrews Ave)			1			Type2AModified
7477	2	SR-1226 (N Chestnut St)	Hamilton St		3		1		Type1Modified
7470	3	SR-1226 (N Chestnut St)	W Rockspring St		9		1		Type4A
7471	3	SR-1226 (N Chestnut St)	W Rockspring St				1		Type1A
25396	3	SR-1226 (N Chestnut St)	W Rockspring St				1		Type4A
7469	3	SR-1226 (N Chestnut St)	W Rockspring St			1			Type4B
<b>Sub-Total for N. Chestnut St From NC 39 To Pvmt Jt at SR 1165</b>				<b>0</b>	<b>24</b>	<b>3</b>	<b>4</b>	<b>0</b>	

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

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.10.20911.1	24	

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1220000000-E	1245000000-E	1260000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	2549000000-E	2605000000-N	2613000000-N	2738000000-E	2759000000-N	4116100000-N	4600000000-N	7444000000-E					
											INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	1½" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	2'-6" CONCRETE CURB & GUTTER	CONCRETE CURB RAMPS	REMOVE AND REPLACE CURB RAMPS	GENERIC PAVING ITEM, REMOVE AND REPLACE ISLAND	GENERIC PAVING ITEM, REMOVE AND REPLACE SIDEWALK	GENERIC PAVING ITEM, REMOVE CURB RAMPS	SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED)	GENERIC TRAFFIC CONTROL ITEM, PEDESTRIAN TRANSPORT SERVICE	GENERIC TRAFFIC CONTROL ITEM, AUDIBLE WARNING DEVICE	INDUCTIVE LOOP SAWCUT			
											MI	FT	TONS	SMI	TON	SY	SY	SY	TONS	TON	TONS	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
2023CPT.05.10.20911.1	Vance	1	SR-1128 / RUIN CREEK RD	US 158 BUS TO SR 1295 - TINY BROADWICK BLVD	5	2	NO	NO	1.530	22-36	77	3.02	279	20,914		545	1,869	126	20											408		
		2	SR-1139 / J P TAYLOR RD	US 1 BUS TO SR 1231 - FACET RD	5	2	NO	NO	0.850	26	43	1.70	158	13,211		370	1,182	80	20				50			1						
		3	SR-1166 / MAIN ST	SR 1137 - OLD NORLINA RD TO US1 BUS	4	2	NO	NO	0.076	22	4	0.15	15			184	85	7	24													
		4	SR-1226 / N CHESTNUT ST	PVMT JT AT SR 1165 - N BECKFORD DR TO NC 39	5	2	NO	NO	0.525	36-64					14,137		556	1,239	84	15			4	3		24		5	1			
		5	SR-1267 / DABNEY DRIVE EXT	US 158 BUS TO US 1 BUS	5	4	NO	NO	0.332	50-62					9,680		501	888	60	10	60			1			4	5	1	408		
		6	SR-1278 / EILEEN CT	US 158 BYP TO CUL-DE-SAC	1	2	NO	NO	0.182	20	9						95	180	16	83												
		7	SR-1310 / ROSS MILL RD	US 158 BYP TO SR 1311 - HEYWOOD WRIGHT RD	4	2	NO	NO	0.879	24-60	44	1.73	160		67		605	1,339	91	24												
		8	SR-1329 / STAGECOACH RD/THOMAS RD	SR 1333 - BOYD RD TO GRANVILLE CO	2	2	NO	NO	9.880	20	494	19.76	1,522				835	8,584	576	25												
		9	SR-1336 / STOVALL RD	SR 1303 - HICKSBORO RD TO GRANVILLE COUNTY	4	2	NO	NO	0.632	19	32	1.26	117				159	614	43	31												
		10	SR-1422 / INDUSTRY DR	SR 1310 - ROSS MILL RD TO DEAD END	4	2	NO	NO	0.574	24	29	1.15	107				261	744	50	10												
		11	SR-1449 / TALL PINES DR	US 158 BYP TO DEAD END	3	2	NO	NO	0.129	20	6						104	165	12	10												
		12	SR-1585 / WILLOW OAK PL	NC 39 TO CUL-DE-SAC	1	2	NO	NO	0.225	20	11						70	203	15	33												
		13	SR-1110 / OLD WATKINS RD	BUS 158 TO SR 1125 - HORSESHOE BEND RD	4	2	NO	NO	2.670	22	134	5.34	494				184	3,002	204	51												
<b>TOTAL FOR PROJ NO. 2023CPT.05.10.20911.1</b>								<b>18.484</b>		<b>883</b>	<b>34.11</b>	<b>2,852</b>	<b>57,942</b>	<b>67</b>	<b>4,469</b>	<b>20,094</b>	<b>1,364</b>	<b>356</b>	<b>60</b>	<b>4</b>	<b>4</b>	<b>50</b>	<b>24</b>	<b>4</b>	<b>1</b>	<b>10</b>	<b>2</b>	<b>816</b>				
<b>GRAND TOTAL</b>								<b>18.484</b>		<b>883</b>	<b>34.11</b>	<b>2,852</b>	<b>57,942</b>	<b>67</b>	<b>4,469</b>	<b>20,094</b>	<b>1,364</b>	<b>356</b>	<b>60</b>	<b>4</b>	<b>4</b>	<b>50</b>	<b>24</b>	<b>4</b>	<b>1</b>	<b>10</b>	<b>2</b>	<b>816</b>				

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.10.20911.1	25	

**THERMOPLASTIC AND PAINT QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		4413000000-E		4447000000-E	4457000000-N	4685000000-E		4695000000-E	4700000000-E	4704000000-E	4709000000-E	4720000000-E							
							MI	FT	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	PEDESTRIAN CHANNELIZING DEVICES	TEMPORARY TRAFFIC CONTROL	4" X 90 M YELLOW THERMO	4" X 90 M WHITE THERMO	8" X 90 M YELLOW THERMO	12" X 90 M YELLOW THERMO	16" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	THERMO MSG RXR 90 M	THERMO MSG SCHOOL 90 M	THERMO MSG AHEAD 90 M	THERMO MSG STOP 90 M					
									SF	LF	LS	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA					
2023CPT.05.10.20911.1	Vance	1	SR-1128 / RUIN CREEK RD	US 158 BUS TO SR 1295 - TINY BROADWICK BLVD	5	2	1.530	22-36	172				16,156	16,586					73							
		2	SR-1139 / J P TAYLOR RD	US 1 BUS TO SR 1231 - FACET RD	5	2	0.850	26	126				8,976	8,976				100	215	4	12					
		3	SR-1166 / MAIN ST	SR 1137 - OLD NORLINA RD TO US1 BUS	4	2	0.076	22	9																	
		4	SR-1226 / N CHESTNUT ST	PVMT JT AT SR 1165 - N BECKFORD DR TO NC 39	5	2	0.525	36-64	59	30				5,460	1,175											
		5	SR-1267 / DABNEY DRIVE EXT	US 158 BUS TO US 1 BUS	5	4	0.332	50-62	38	30				4,020	815	130										
		6	SR-1278 / EILEEN CT	US 158 BYP TO CUL-DE-SAC	1	2	0.182	20	21																	
		7	SR-1310 / ROSS MILL RD	US 158 BYP TO SR 1311 - HEYWOOD WRIGHT RD	4	2	0.879	24-60	99		*			10,524	9,700			165		100		12				
		8	SR-1329 / STAGECOACH RD/THOMAS RD	SR 1333 - BOYD RD TO GRANVILLE CO	2	2	9.880	20	1,107					87,678	106,309					36			10	8		
		9	SR-1336 / STOVALL RD	SR 1303 - HICKSBORO RD TO GRANVILLE COUNTY	4	2	0.632	19	71					6,674	6,674											
		10	SR-1422 / INDUSTRY DR	SR 1310 - ROSS MILL RD TO DEAD END	4	2	0.574	24	65					150	190											
		11	SR-1449 / TALL PINES DR	US 158 BYP TO DEAD END	3	2	0.129	20	15																	
		12	SR-1585 / WILLOW OAK PL	NC 39 TO CUL-DE-SAC	1	2	0.225	20	26																	
		13	SR-1110 / OLD WATKINS RD	BUS 158 TO SR 1125 - HORSESHOE BEND RD	4	2	2.670	22	300					27,530	28,729											
<b>TOTAL FOR PROJ NO. 2023CPT.05.10.20911.1</b>							<b>18.484</b>		<b>2,108</b>	<b>60</b>	<b>1.000</b>	<b>167,168</b>	<b>179,154</b>	<b>130</b>	<b>165</b>	<b>100</b>	<b>424</b>	<b>4</b>	<b>24</b>	<b>10</b>	<b>8</b>					
<b>GRAND TOTAL</b>							<b>18.484</b>		<b>2,108</b>	<b>60</b>	<b>1.000</b>	<b>167,168</b>	<b>179,154</b>	<b>130</b>	<b>165</b>	<b>100</b>	<b>424</b>	<b>4</b>	<b>24</b>	<b>10</b>	<b>8</b>					
												<b>346,322</b>										<b>46</b>				

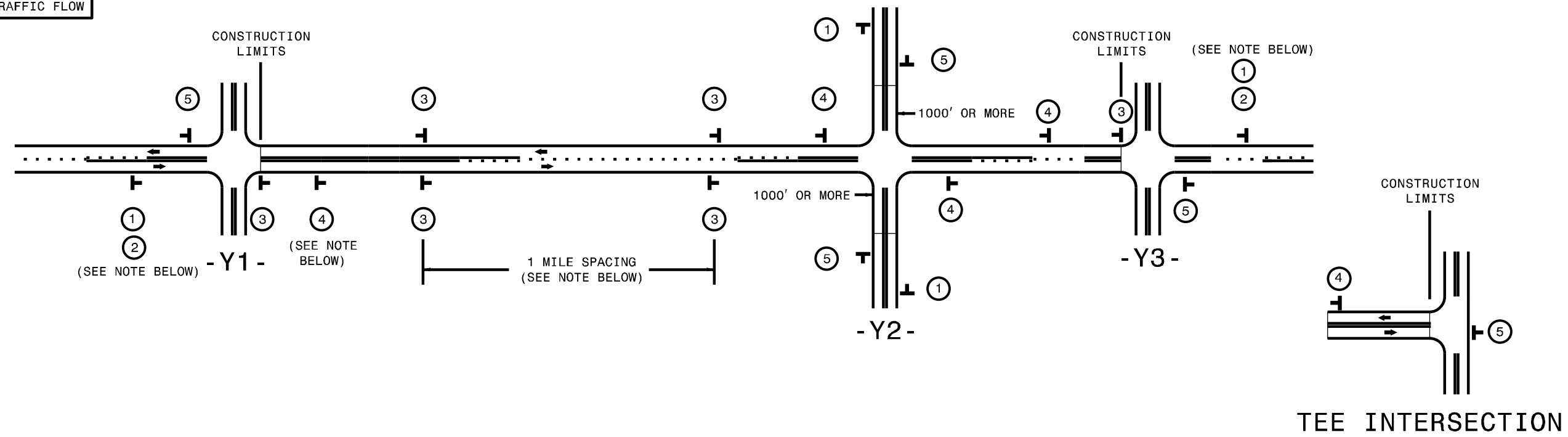
PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.10.20911.1	26	

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4725000000-E						4810000000-E		4820000000-E	4830000000-E	4835000000-E	4840000000-N		4845000000-N							
									THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO LT & RT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO STR & LT ARROW 90 M	4" YELLOW PAINT	4" WHITE PAINT	8" YELLOW PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG RXR	PAINT MSG SCHOOL	PAINT LT ARROW	PAINT RT ARROW	PAINT LT & RT ARROW	PAINT STR & RT ARROW	PAINT STR ARROW	PAINT STR & LT ARROW		
									EA	EA	EA	EA	EA	EA	LF	LF	LF			EA	EA	EA	EA	EA	EA	EA	EA	EA	
2023CPT.05.10.20911.1	Vance	1	SR-1128 / RUIN CREEK RD	US 158 BUS TO SR 1295 - TINY BROADWICK BLVD	5	2	1.530	22-36	3	1	2			16,156	16,586				73			3	1	2					
		2	SR-1139 / J P TAYLOR RD	US 1 BUS TO SR 1231 - FACET RD	5	2	0.850	26						8,976	8,976			100	215	4	12								
		3	SR-1166 / MAIN ST	SR 1137 - OLD NORLINA RD TO US1 BUS	4	2	0.076	22																					
		4	SR-1226 / N CHESTNUT ST	PVMT JT AT SR 1165 - N BECKFORD DR TO NC 39	5	2	0.525	36-64	7			6	2		5,460	1,175							7				6	2	
		5	SR-1267 / DABNEY DRIVE EXT	US 158 BUS TO US 1 BUS	5	4	0.332	50-62	1	1		1	1	1	4,020	815	130						1	1			1	1	1
		6	SR-1278 / EILEEN CT	US 158 BYP TO CUL-DE-SAC	1	2	0.182	20																					
		7	SR-1310 / ROSS MILL RD	US 158 BYP TO SR 1311 - HEYWOOD WRIGHT RD	4	2	0.879	24-60	10	1			1																
		8	SR-1329 / STAGECOACH RD/THOMAS RD	SR 1333 - BOYD RD TO GRANVILLE CO	2	2	9.880	20																					
		9	SR-1336 / STOVALL RD	SR 1303 - HICKSBORO RD TO GRANVILLE COUNTY	4	2	0.632	19																					
		10	SR-1422 / INDUSTRY DR	SR 1310 - ROSS MILL RD TO DEAD END	4	2	0.574	24																					
		11	SR-1449 / TALL PINES DR	US 158 BYP TO DEAD END	3	2	0.129	20																					
		12	SR-1585 / WILLOW OAK PL	NC 39 TO CUL-DE-SAC	1	2	0.225	20																					
		13	SR-1110 / OLD WATKINS RD	BUS 158 TO SR 1125 - HORSESHOE BEND RD	4	2	2.670	22																					
<b>TOTAL FOR PROJ NO. 2023CPT.05.10.20911.1</b>							<b>18.484</b>		<b>21</b>	<b>3</b>	<b>2</b>	<b>7</b>	<b>4</b>	<b>1</b>	<b>34,612</b>	<b>27,552</b>	<b>130</b>	<b>100</b>	<b>288</b>	<b>4</b>	<b>12</b>	<b>11</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>3</b>	<b>1</b>		
									<b>38</b>						<b>62,164</b>				<b>16</b>		<b>26</b>								
<b>GRAND TOTAL</b>							<b>18.484</b>		<b>21</b>	<b>3</b>	<b>2</b>	<b>7</b>	<b>4</b>	<b>1</b>	<b>34,612</b>	<b>27,552</b>	<b>130</b>	<b>100</b>	<b>288</b>	<b>4</b>	<b>12</b>	<b>11</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>3</b>	<b>1</b>		
									<b>38</b>						<b>62,164</b>				<b>16</b>		<b>26</b>								







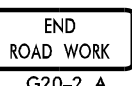
# SIGNING FOR RESURFACING PROJECTS

**LEGEND**  
 STATIONARY SIGN  
 DIRECTION OF TRAFFIC FLOW



## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER.                 </div> <div style="text-align: center;">  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER.                 </div> </div>
	②	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	③	 SP 13107 48" X 48"	<ul style="list-style-type: none"> <li>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</li> <li>- AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li> </ul>	
	④	 SP 13106 48" X 48"	<ul style="list-style-type: none"> <li>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</li> <li>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li> <li>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li> <li>- 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.</li> <li>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li> <li>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</li> </ul>	
	⑤	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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

**MAPS LESS THAN 2 MILES**

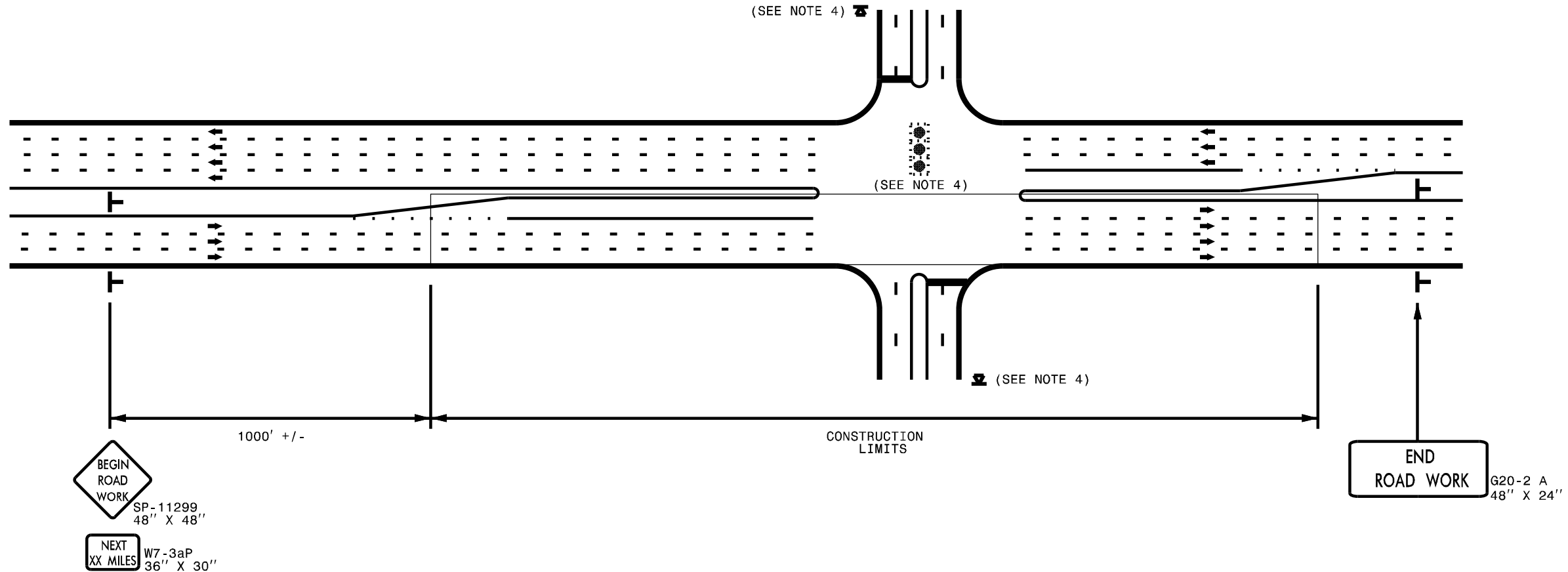
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



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

\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$DCON\$\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$\$

# 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	
T	STATIONARY SIGN
➔	DIRECTION OF TRAFFIC FLOW



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

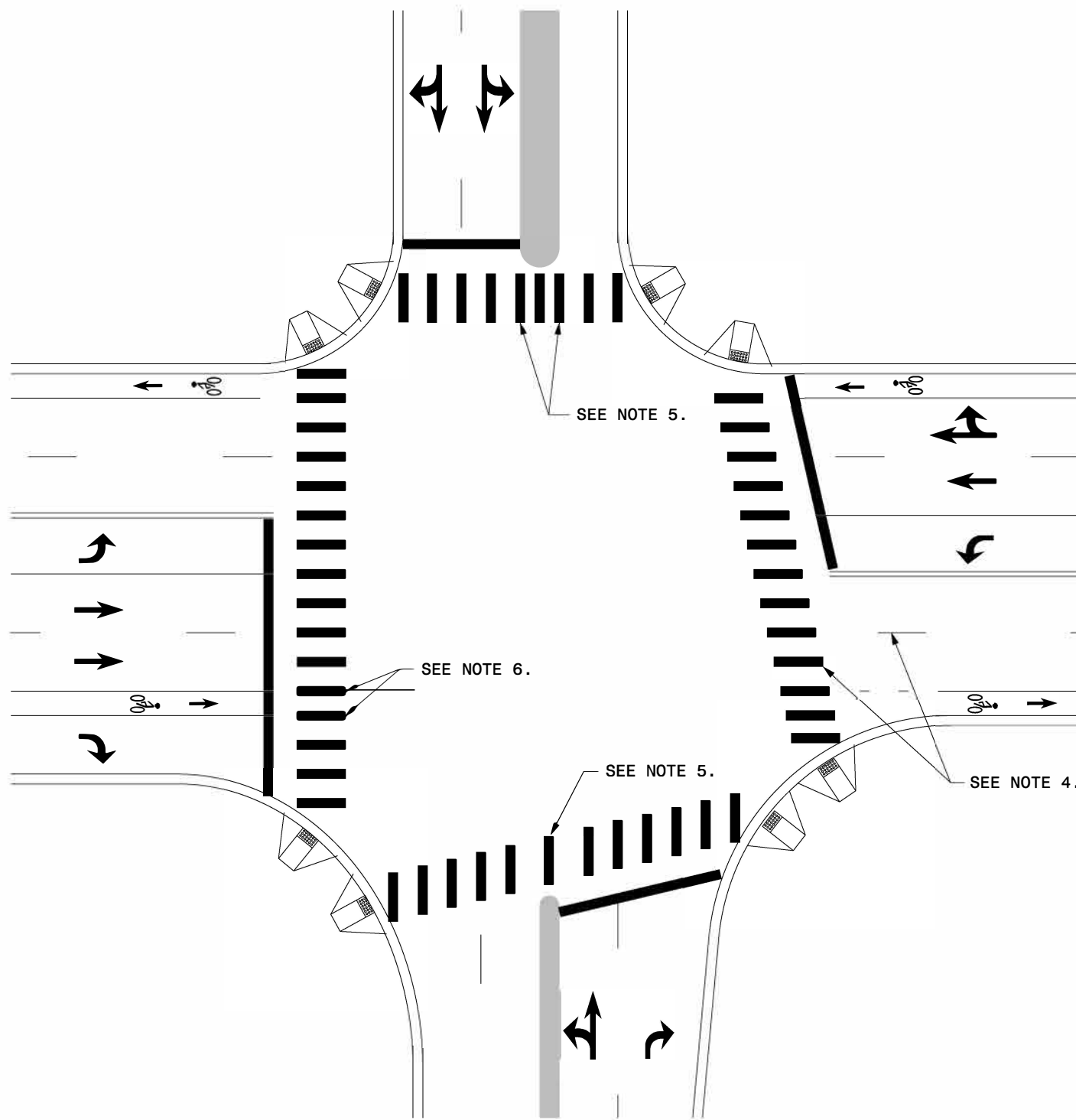
\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$DCON\$\$\$\$\$  
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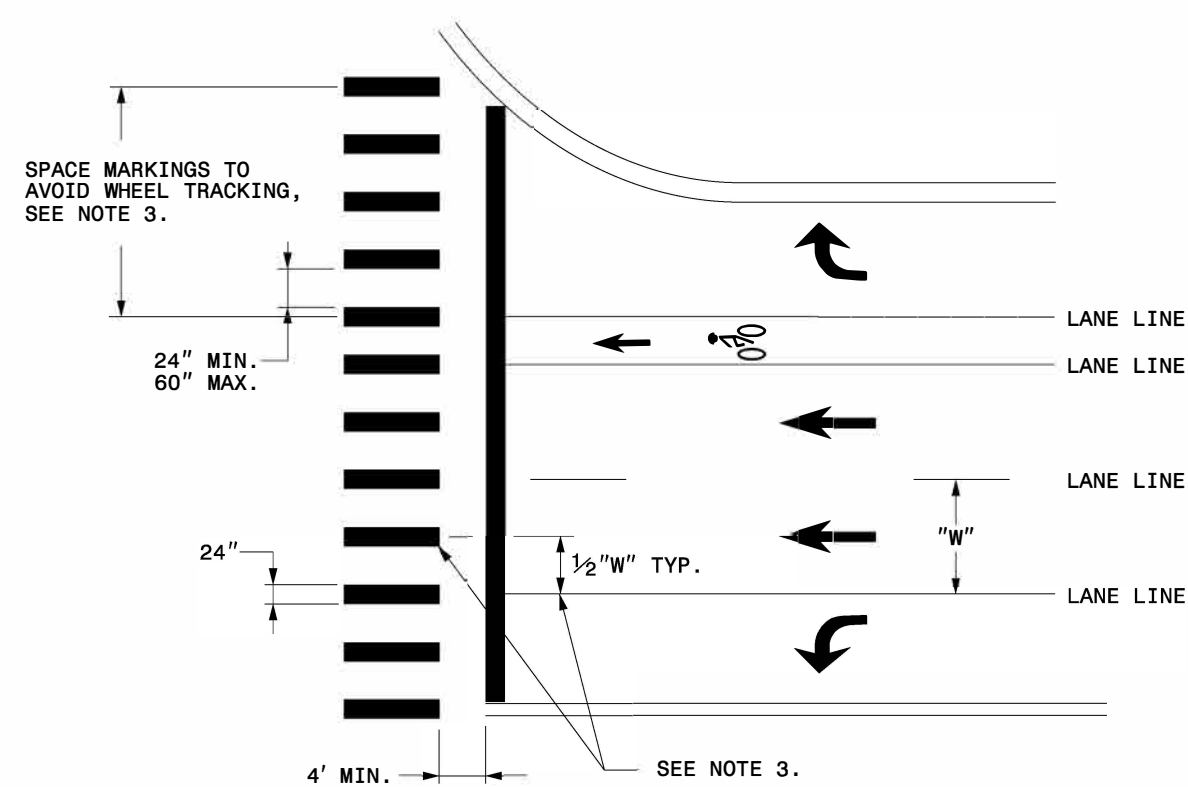
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

5-18

ENGLISH DETAIL DRAWING FOR  
**PAVEMENT MARKINGS**  
HI-VISIBILITY CROSSWALKS  
NO-TRACK MARKING GUIDANCE



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.

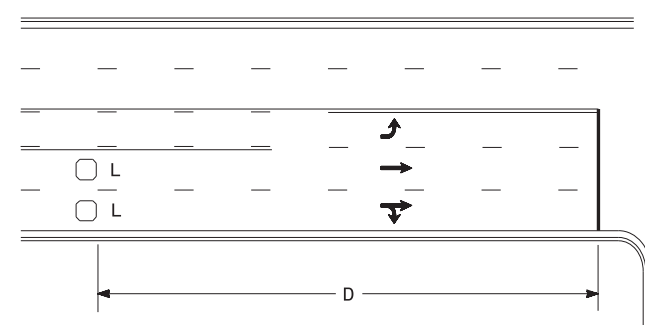
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

5-18

ENGLISH DETAIL DRAWING FOR  
**PAVEMENT MARKINGS**  
HI-VISIBILITY CROSSWALKS  
NO-TRACK MARKING GUIDANCE

SHEET 1 OF 1

### High Speed Detection (≥40 mph)

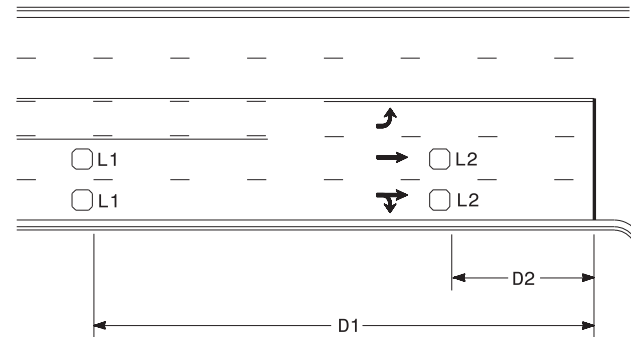


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft  
Wired separately

Volume Density Operation

OR

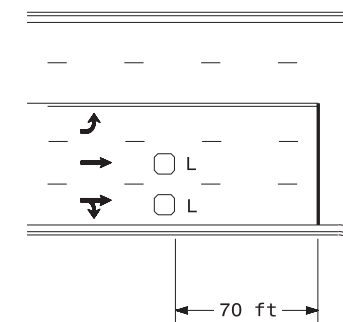


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

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

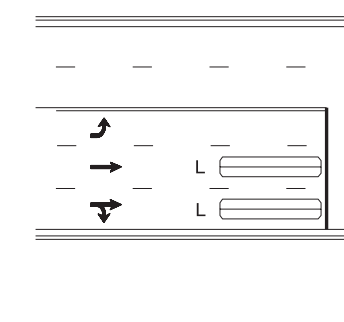
"Stretch" Operation

### Low Speed Detection (≤35 mph)



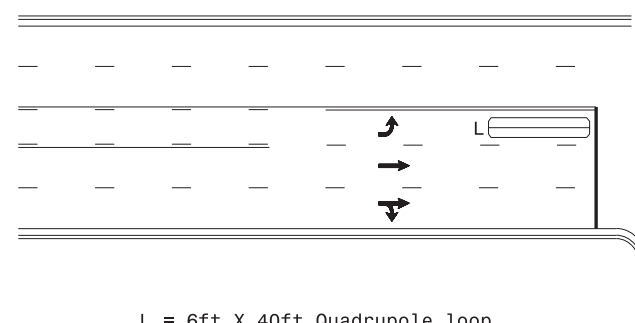
L = 6ft X 6ft  
Wired in series

OR



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

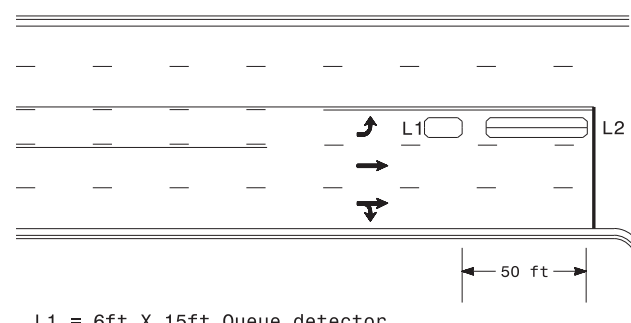
### Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

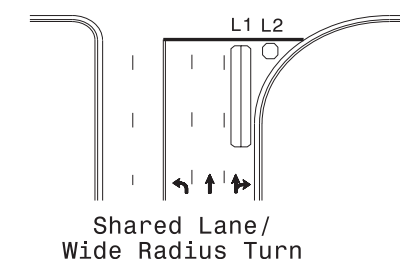
OR



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

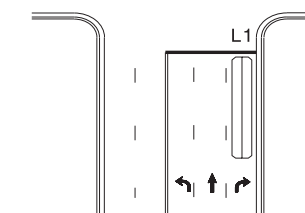
Queue Loop Detection

### Right Turn Lane Detection

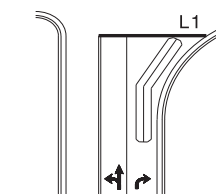


Shared Lane/  
Wide Radius Turn

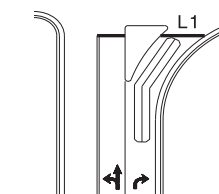
L1 = 6ft X 40ft Quadrupole loop  
L2 = 6ft X 6ft [Minimum] Presence loop  
Wired separately



Standard Turn

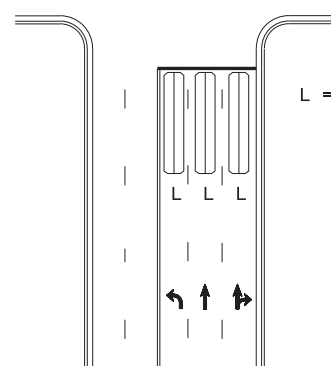


Wide Radius Turn



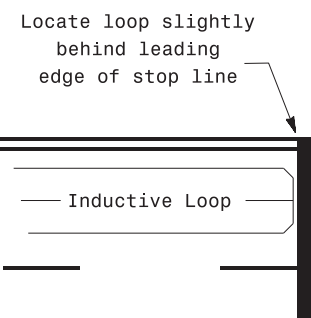
Channelized Turn

### Side Street Detection



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

### Presence Loop Placement at Stop Lines



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

### Recommended Number of Turns

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

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

Quadrupole loops: Use 2-4-2 turns

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

750 N. Greenfield Pkwy, Garner, NC 27529

Prepared in the Offices of:

Typical Signal Loop Locations	
PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:
SCALE: N/A	REVISIONS: INIT. DATE
DATE: 9/8/2020	
SIG. INVENTORY NO.	