

- 7. SR 1462 - SINGLETON ST/IRELAN DR
- 16. SR 1724 - OLD TRINITY CIR
- 17. SR 1725 - DEERWOOD PL
- 18. SR 1732 - BLANCHE DR
- 19. SR 1737 - AZALEA DR
- 20. SR 1761 - MULLENS DR

5/14/23

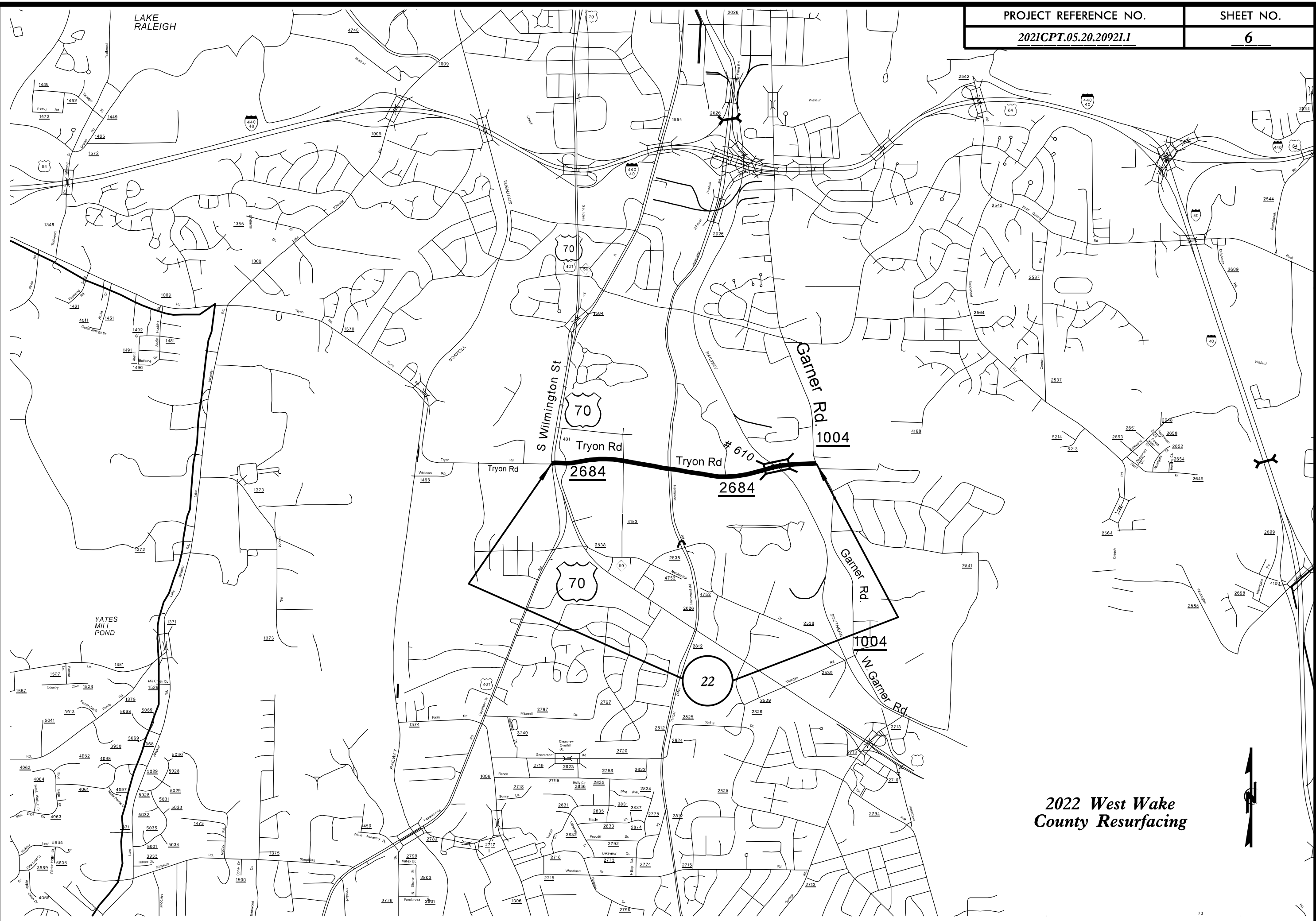
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5/14/19

LAKE RALEIGH

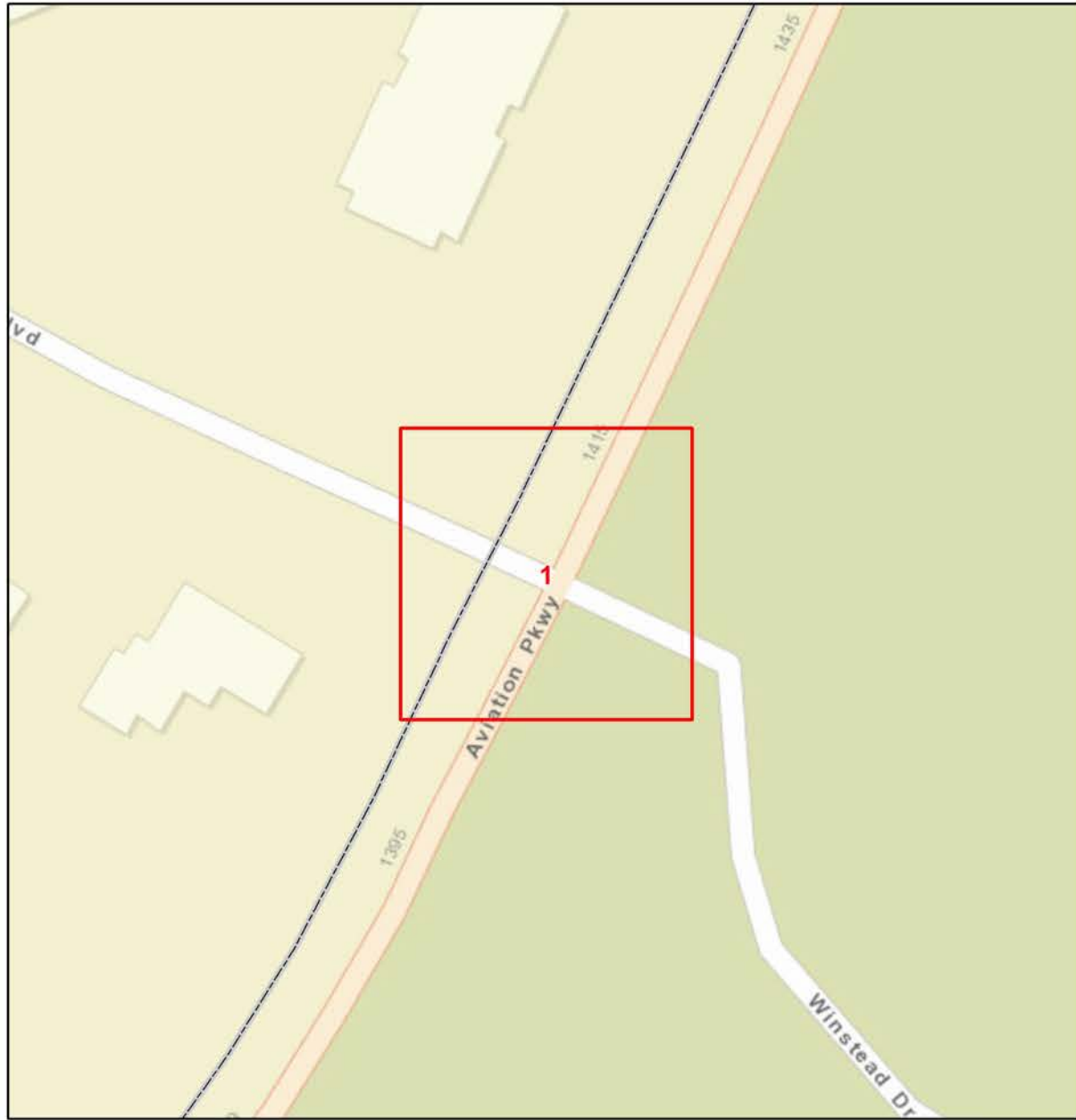
YATES MILL POND

DATE PLOTTED: 5/14/19 10:00 AM
DRAWN BY: J. HARRIS
CHECKED BY: J. HARRIS
SCALE: AS SHOWN
PROJECT: 2022 WEST WAKE COUNTY RESURFACING

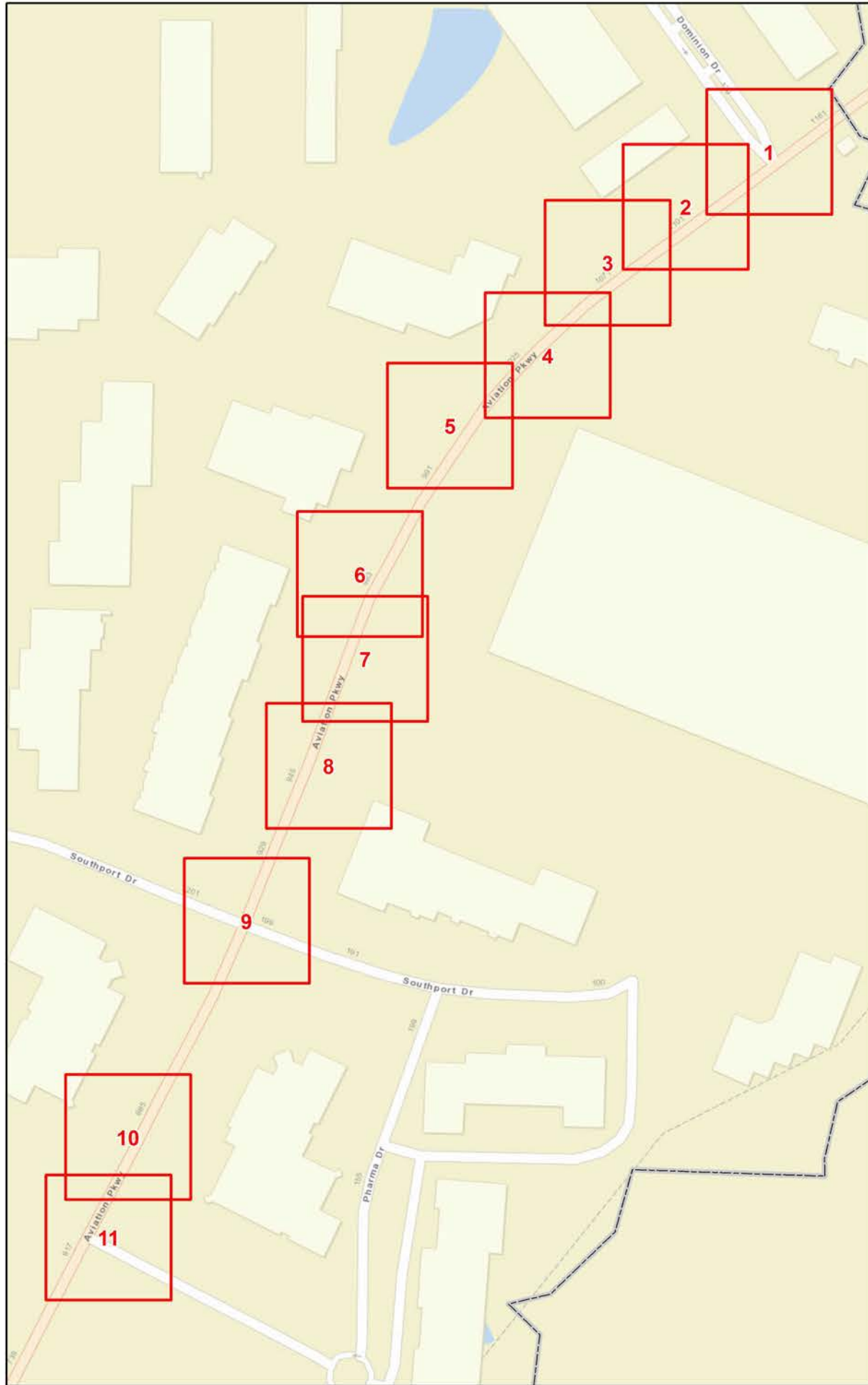


2022 West Wake
County Resurfacing





Curb Ramps To Be Repaired		
	Retrofit	
	Remove and Replace	
	New Curb Ramp	
	Remove Ramp	
	Municipal Boundary	
	NCHPO Historic Boundary (NR and LHD)	
2022 West WBS:2021CPT.05.20.20921.1 Aviation Pkwy from Gateway Centre Blvd to Dominion Dr / Beg C&G		
		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5
Source: CALYX Engineers and Consultants, 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)

2022 West
WBS: 2021CPT.05.20.20921.1
Aviation Pkwy
from Dominion Dr / Beg C&G
to International Dr / End C&G

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION 5


Source: CALYX Engineers and Consultants, 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)

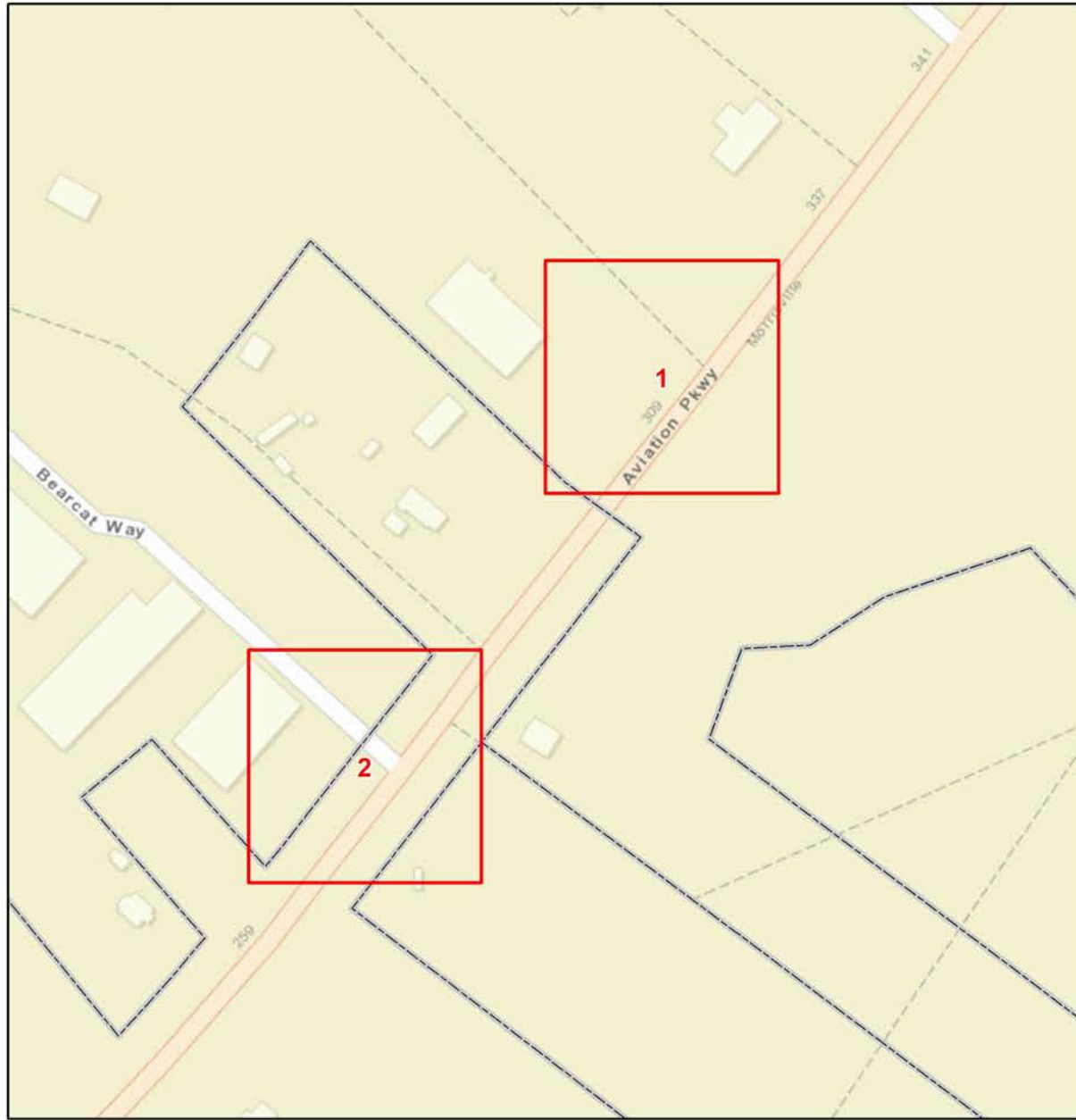


2022 West
WBS: 2021CPT.05.20.20921.1
Aviation Pkwy
from Dominion Dr / Beg C&G
to International Dr / End C&G

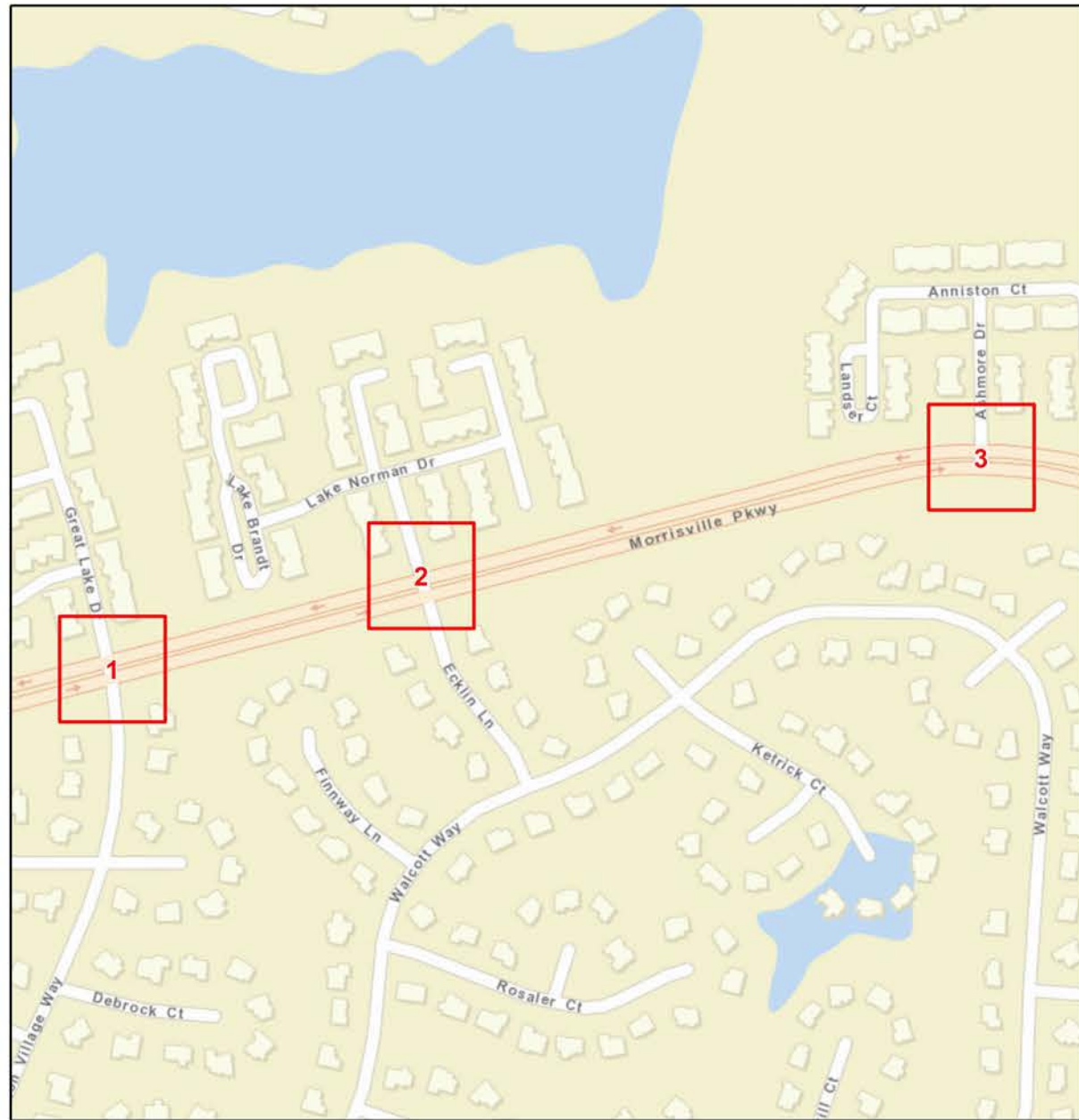


NORTH CAROLINA DEPARTMENT
 OF TRANSPORTATION
 DIVISION 5

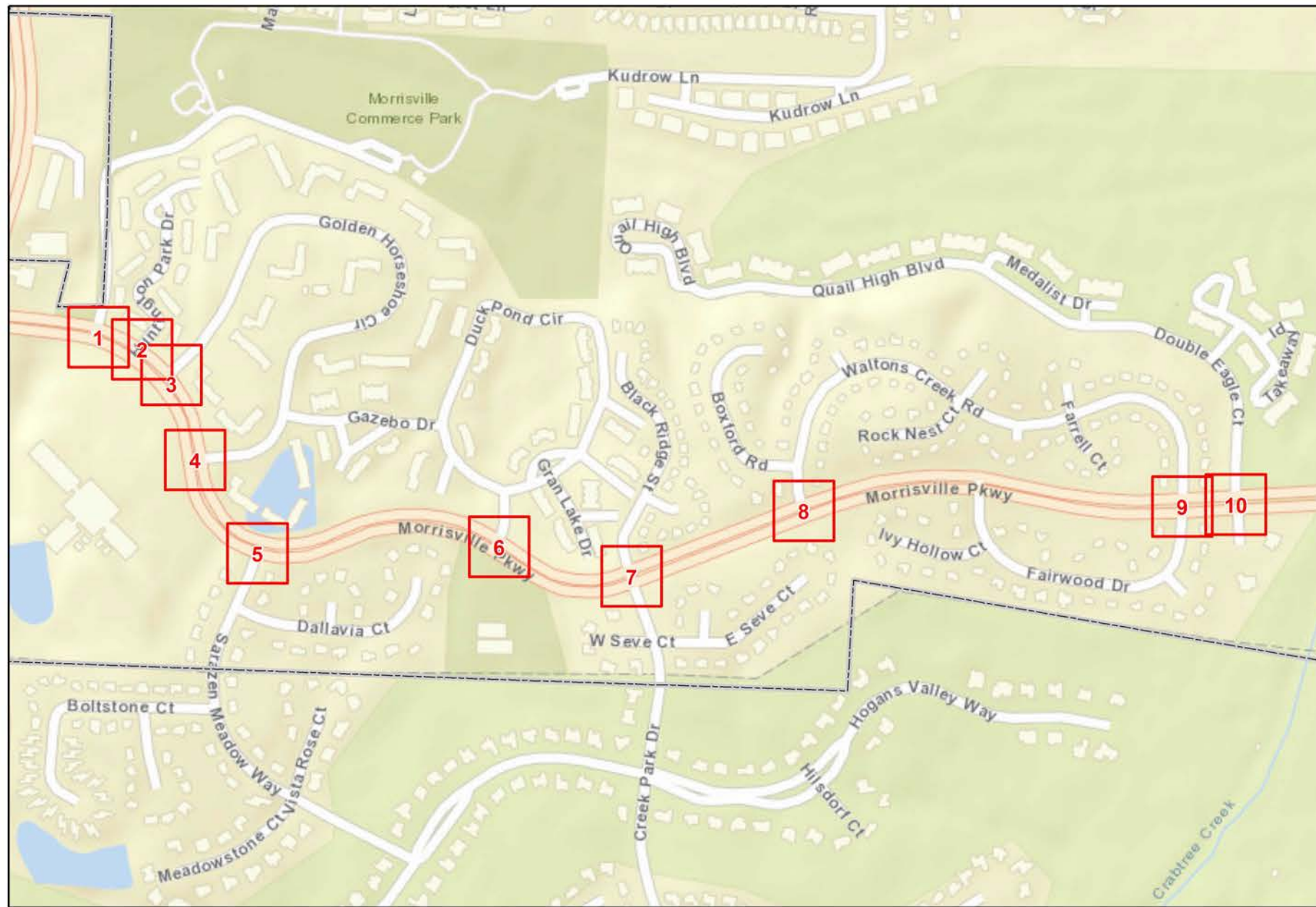
Source: CALYX Engineers and Consultants, ESRI, NC OneMap, NCDOT, NCHPO



Curb Ramps To Be Repaired		
	Retrofit	
	Remove and Replace	
	New Curb Ramp	
	Remove Ramp	
	Municipal Boundary	
	NCHPO Historic Boundary (NR and LHD)	
2022 West		
WBS: 2021CPT.05.20.20921.1		
Aviation Pkwy		
from International Dr / End C&G		
to End 2 Lane / Beg C&G		
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5	
<small>Source: CALYX Engineers and Consultants, ESRI, NC OneMap, NCDOT, NCHPO</small>		



Curb Ramps To Be Repaired		
	Retrofit	
	Remove and Replace	
	New Curb Ramp	
	Remove Ramp	
	Municipal Boundary	
	NCHPO Historic Boundary (NR and LHD)	
2022 West WBS: 2021CPT.05.20.20921.1 Morrisville Pkwy from / to SR 1613 to / from Pvmnt Jt At SR 1617		
		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5
Source: CALYX Engineers and Consultants, 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)

2022 West
WBS: 2021CPT.05.20.20921.1
Morrisville Pkwy from / to Pmnt Jt
West of Crabtree Crossing Pkwy
to / from SR 1613

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5


Source: CALYX Engineers and Consultants, 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)

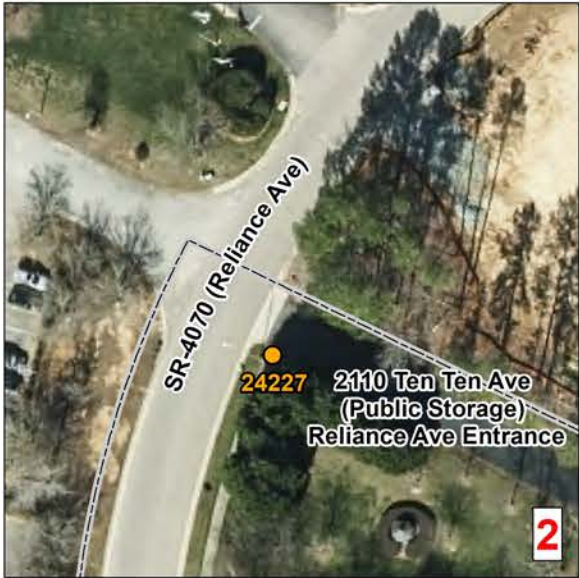
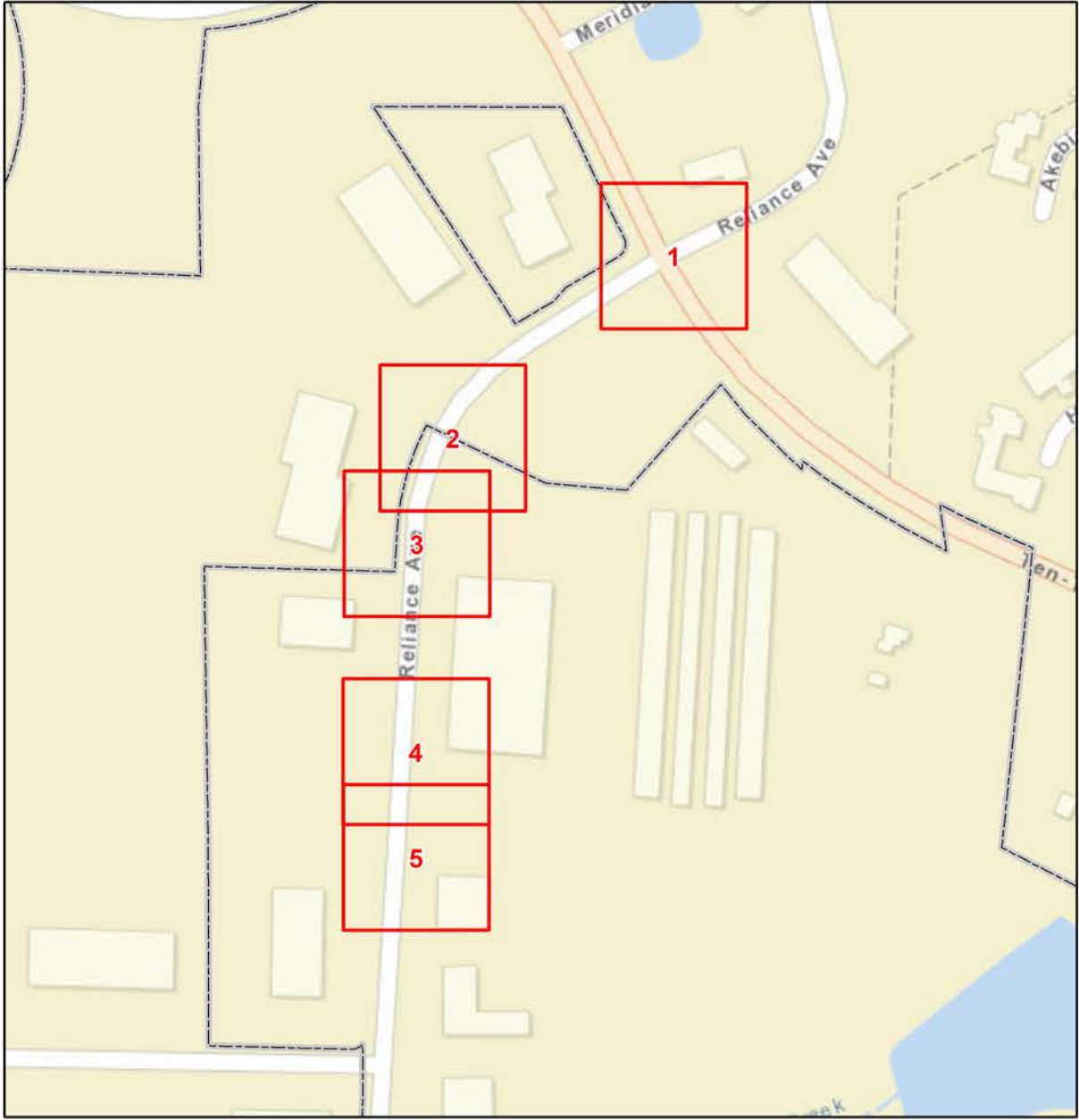


2022 West
WBS: 2021CPT.05.20.20921.1
Morrisville Pkwy from / to Pvmt Jt
West of Crabtree Crossing Pkwy
to / from SR 1613



NORTH CAROLINA DEPARTMENT
 OF TRANSPORTATION
 DIVISION 5


Source: CALYX Engineers and Consultants, 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)

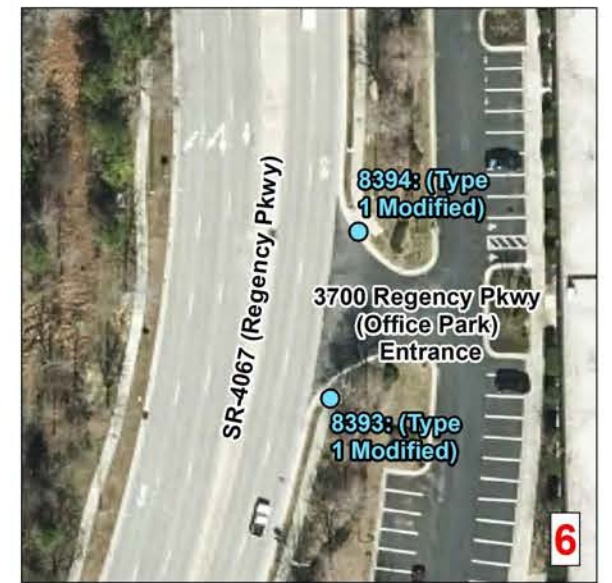
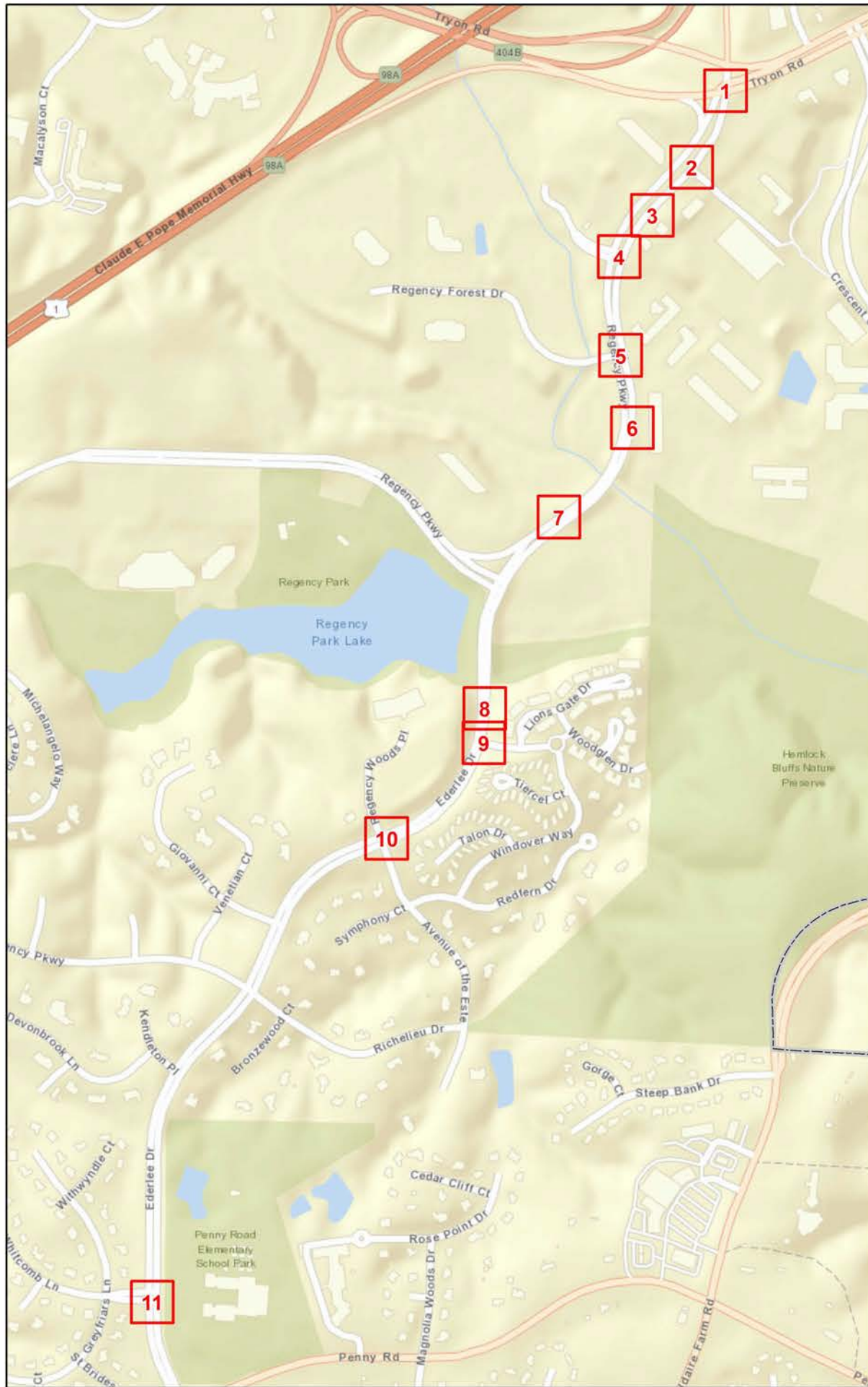


2022 West
WBS: 2021CPT.05.20.20921.1

Reliance Ave
from SR 1010 to End Maint

 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

Source: CALYX Engineers and Consultants, 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)

2022 West
WBS: 2021CPT.05.20.20921.1

Ederlee Dr / Regency Pkwy
from SR 1379 to SR 1009

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5


Source: CALYX Engineers and Consultants, 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)



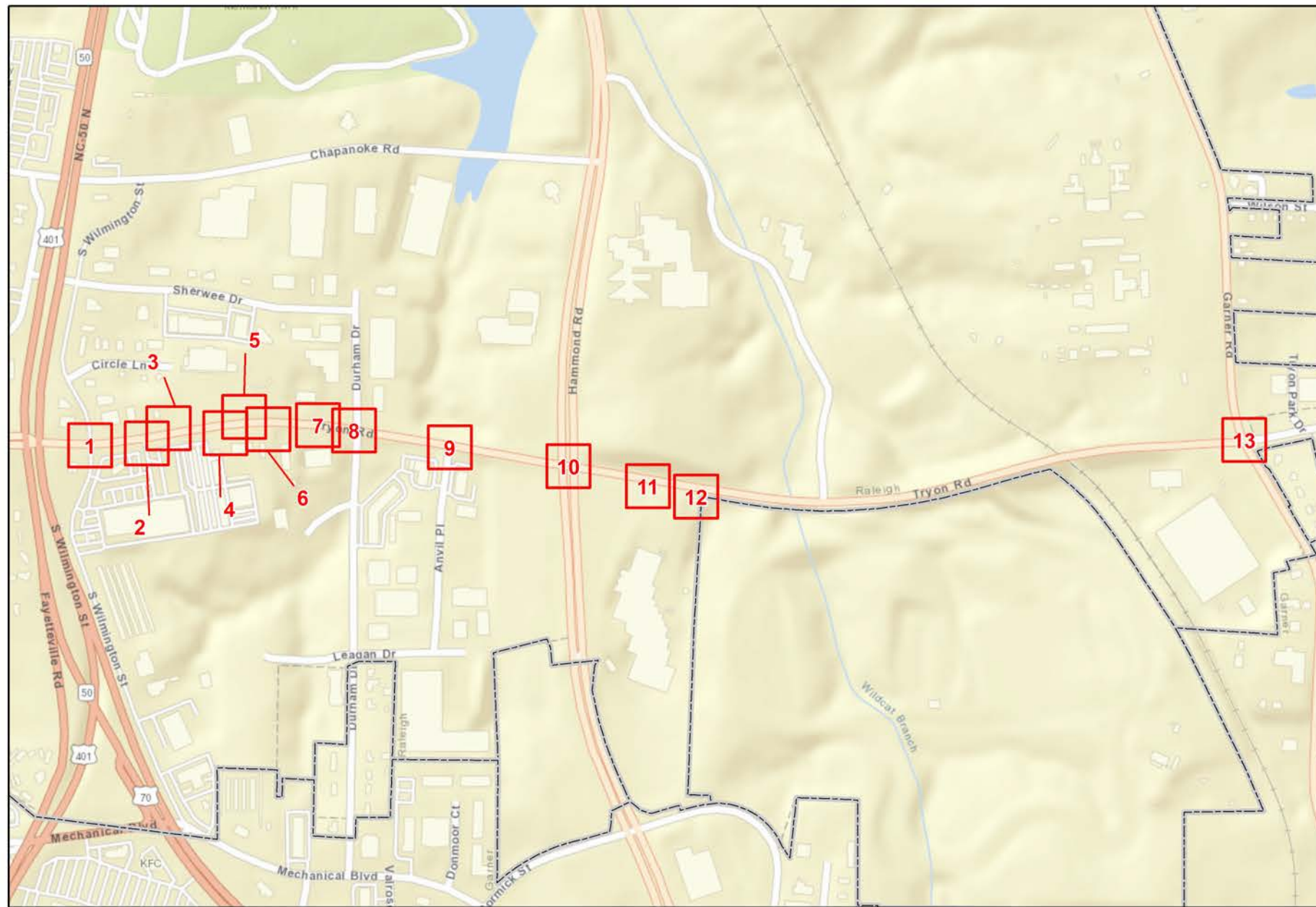
2022 West
WBS: 2021CPT.05.20.20921.1

Ederlee Dr / Regency Pkwy
from SR 1379 to SR 1009



NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5

Source: CALYX Engineers and Consultants, 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)

2022 West
WBS: 2021CPT.05.20.20921.1

Tryon Rd
from SR 1004 to US 70

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5

Source: CALYX Engineers and Consultants, 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)	
2022 West		
WBS: 2021CPT.05.20.20921.1		
Tryon Rd		
from SR 1004 to US 70		
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5	
<small>Source: CALYX Engineers and Consultants, ESRI, NC OneMap, NCDOT, NCHPO</small>		

PAVEMENT SCHEDULE

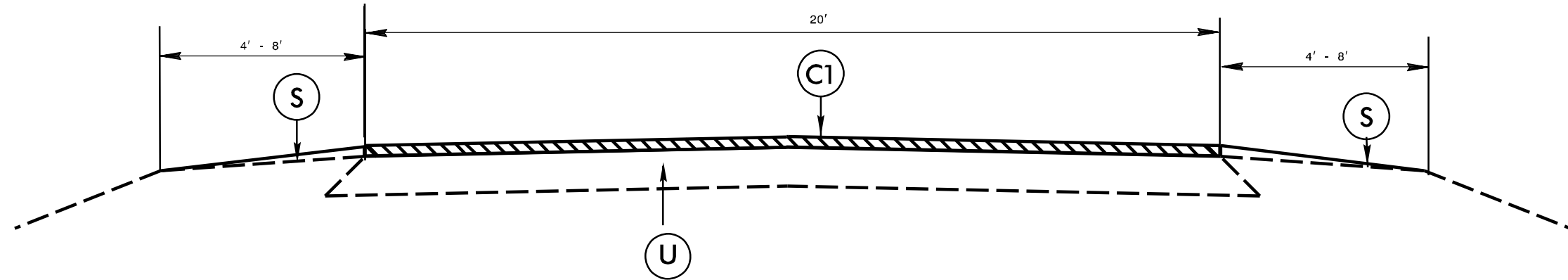
PROJECT REFERENCE NO.

SHEET NO.

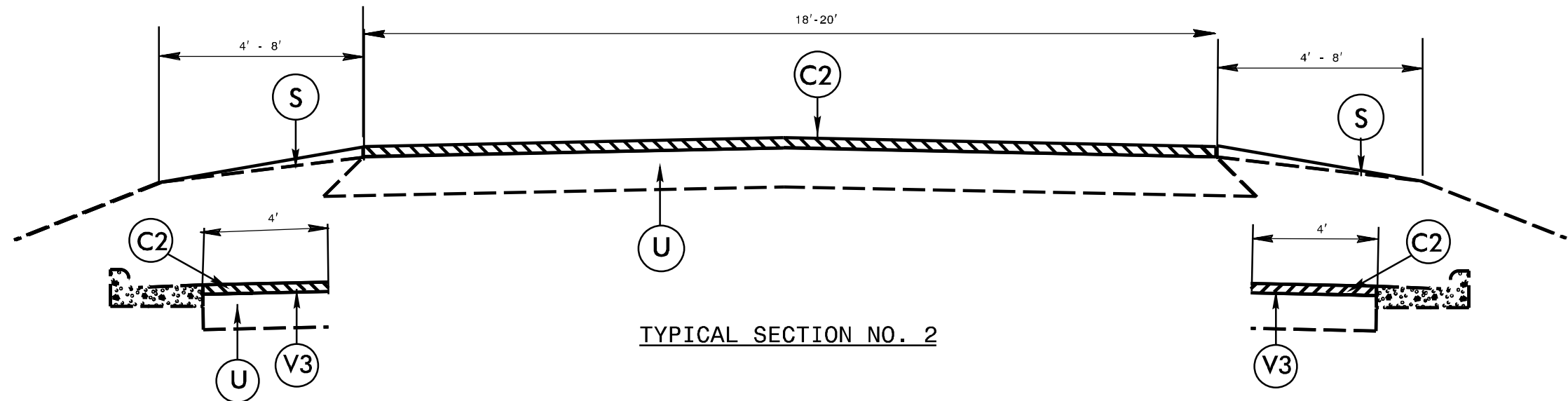
2021CPT.05.20.20921.1

20

		S	SHOULDER GRADING ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	V1	1 1/2" MILLING
C3	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	V2	0"-1 1/2" MILLING
C4	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	V3	0 - 1 1/4" Milling
C5	3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF 2 LAYERS	V4	3" MILLING



TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2

PAVEMENT SCHEDULE

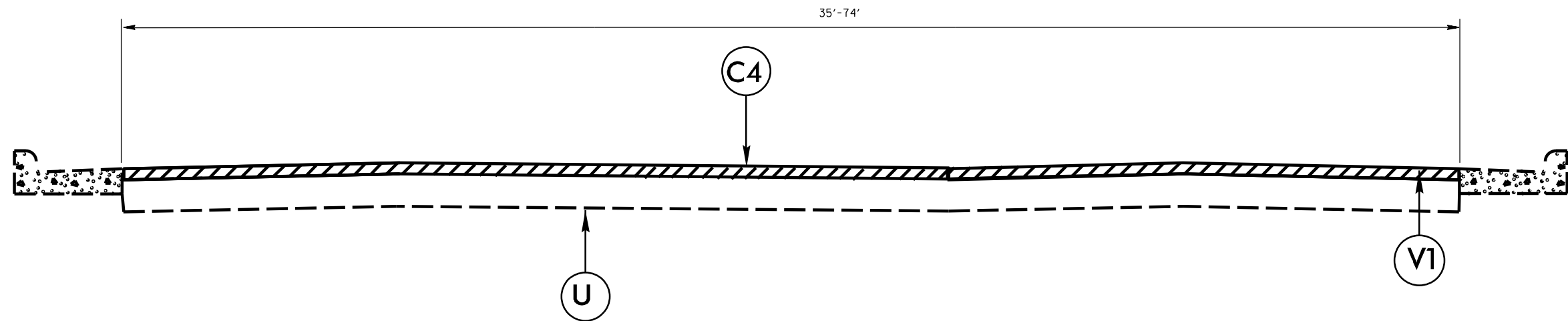
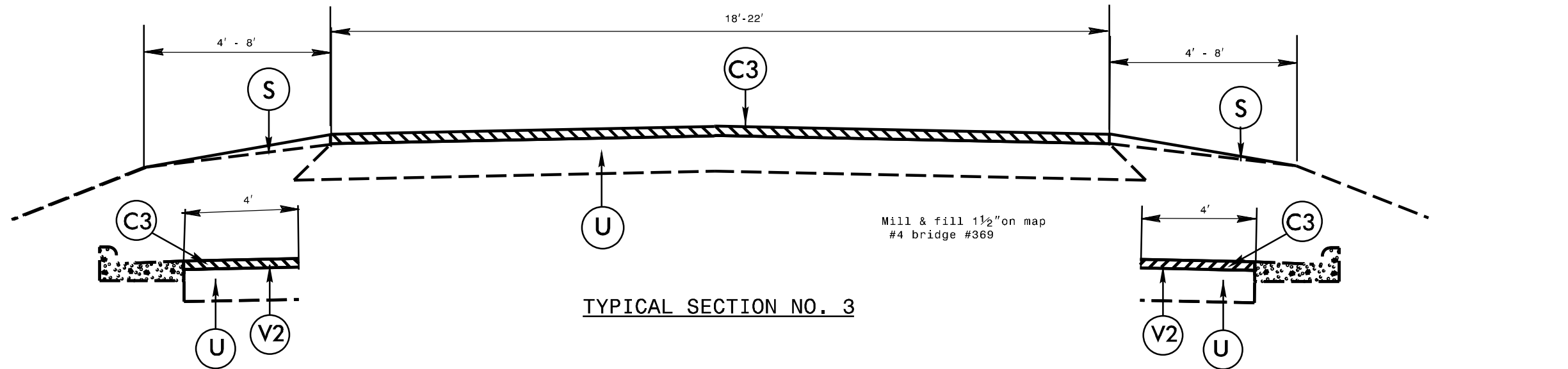
PROJECT REFERENCE NO.

SHEET NO.

2021CPT.05.20.20921.1

21

		S	SHOULDER GRADING ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	V1	1½" MILLING
C3	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	V2	0"-1½" MILLING
C4	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	V3	0 - 1¼" Milling
C5	3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF 2 LAYERS	V4	3" MILLING



PAVEMENT SCHEDULE

S SHOULDER GRADING
ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)

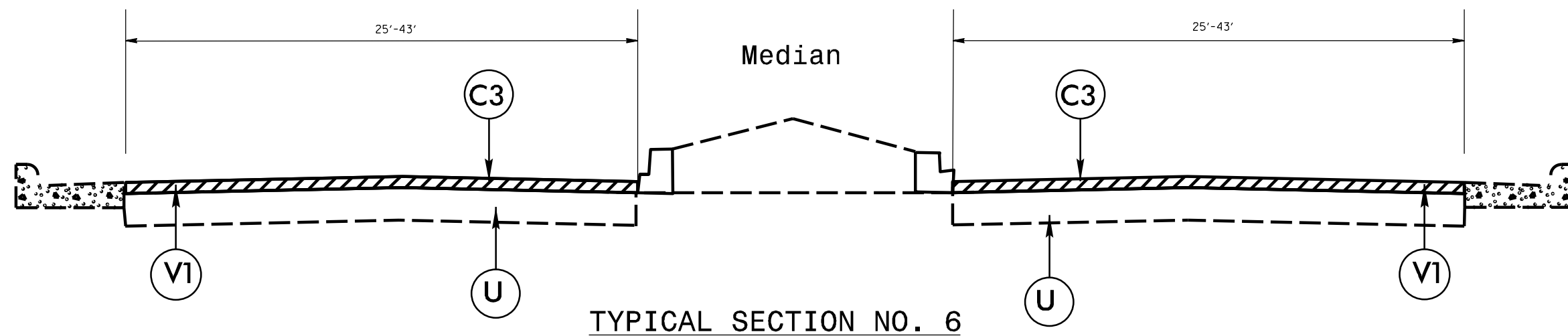
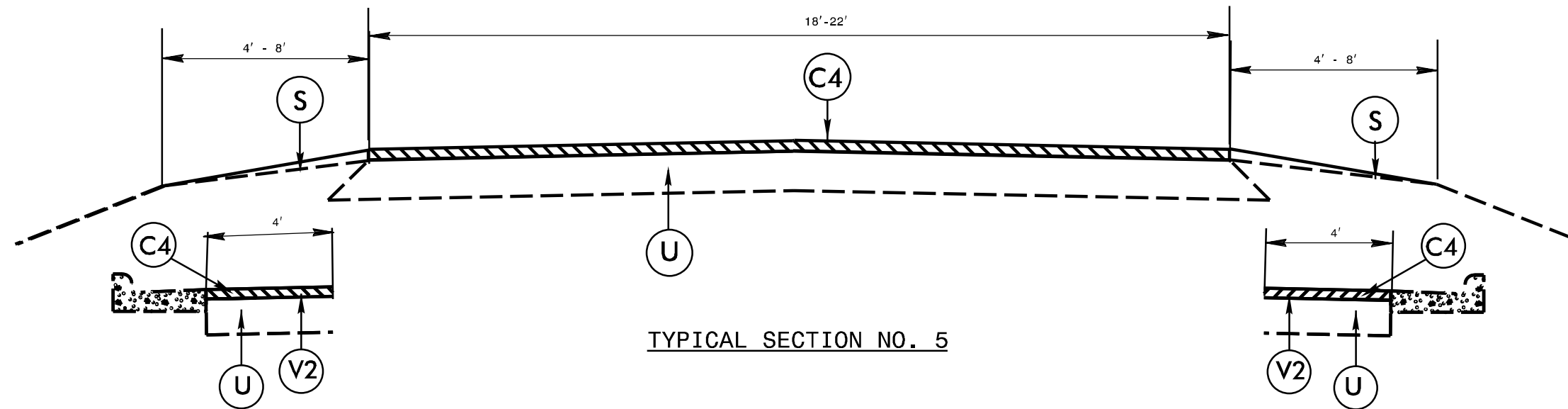
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SHEET NO.

2021CPT.05.20.20921.1

22

C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	V1	1½" MILLING
C3	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	V2	0"-1½" MILLING
C4	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	V3	0 - 1¼" Milling
C5	3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF 2 LAYERS	V4	3" MILLING



PAVEMENT SCHEDULE

S SHOULDER GRADING
ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)

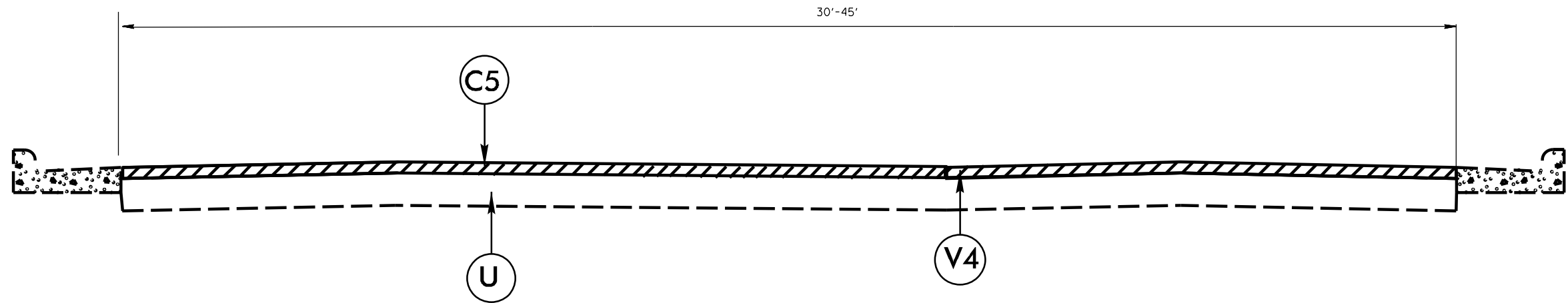
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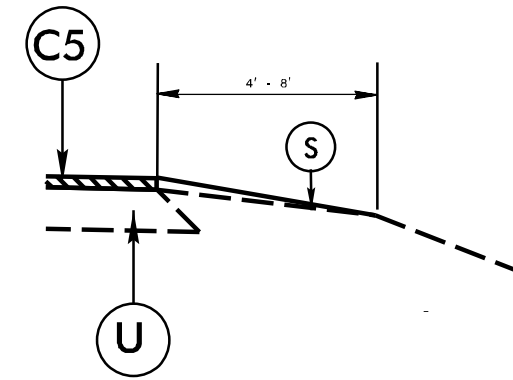
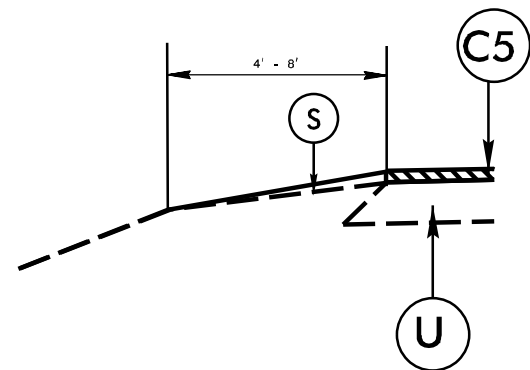
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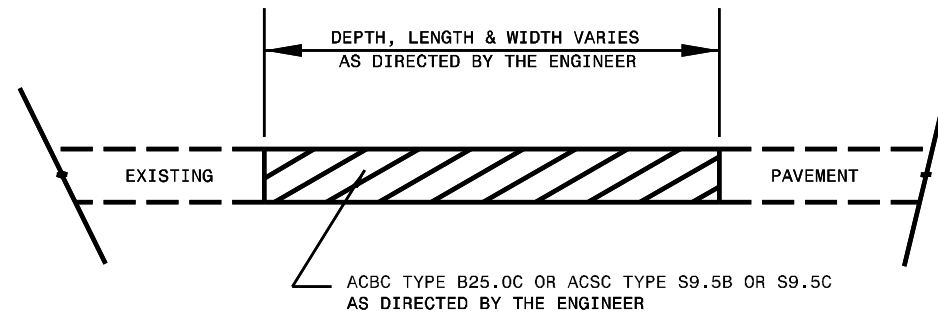
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C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	V1	1½" MILLING
C3	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	V2	0"-1½" MILLING
C4	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	V3	0 - 1¼" Milling
C5	3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF 2 LAYERS	V4	3" MILLING



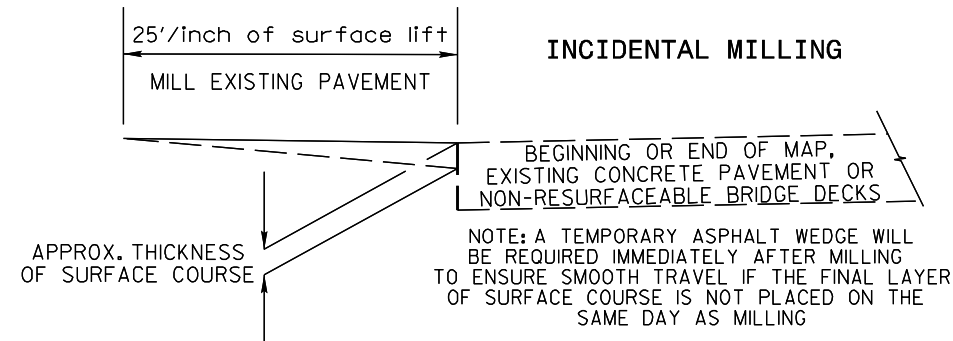
TYPICAL SECTION NO. 7





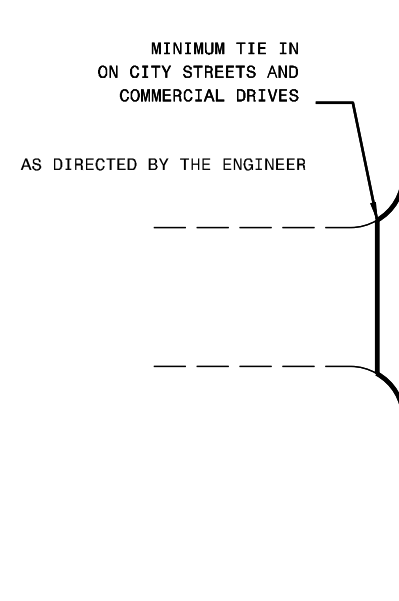
PATCHING EXISTING PAVEMENT

MILLING TO BE PERFORMED PRIOR TO PATCHING

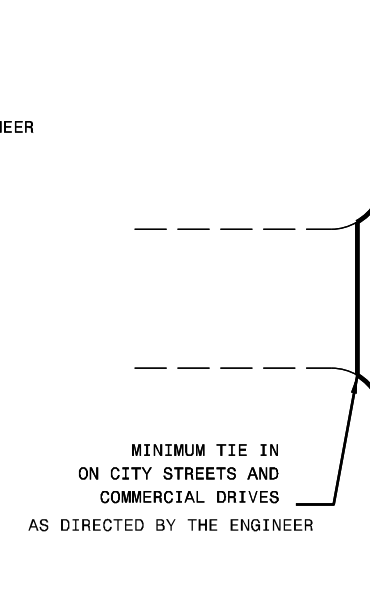
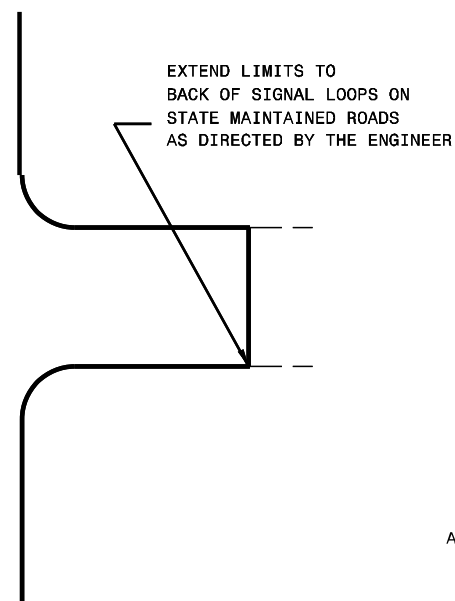


NOTES

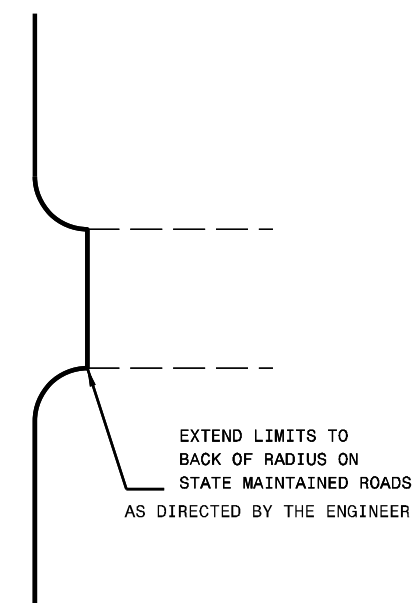
ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT
 ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI, OR AS DIRECTED BY THE ENGINEER.
 EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
 BRIDGES TO BE RESURFACED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



DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

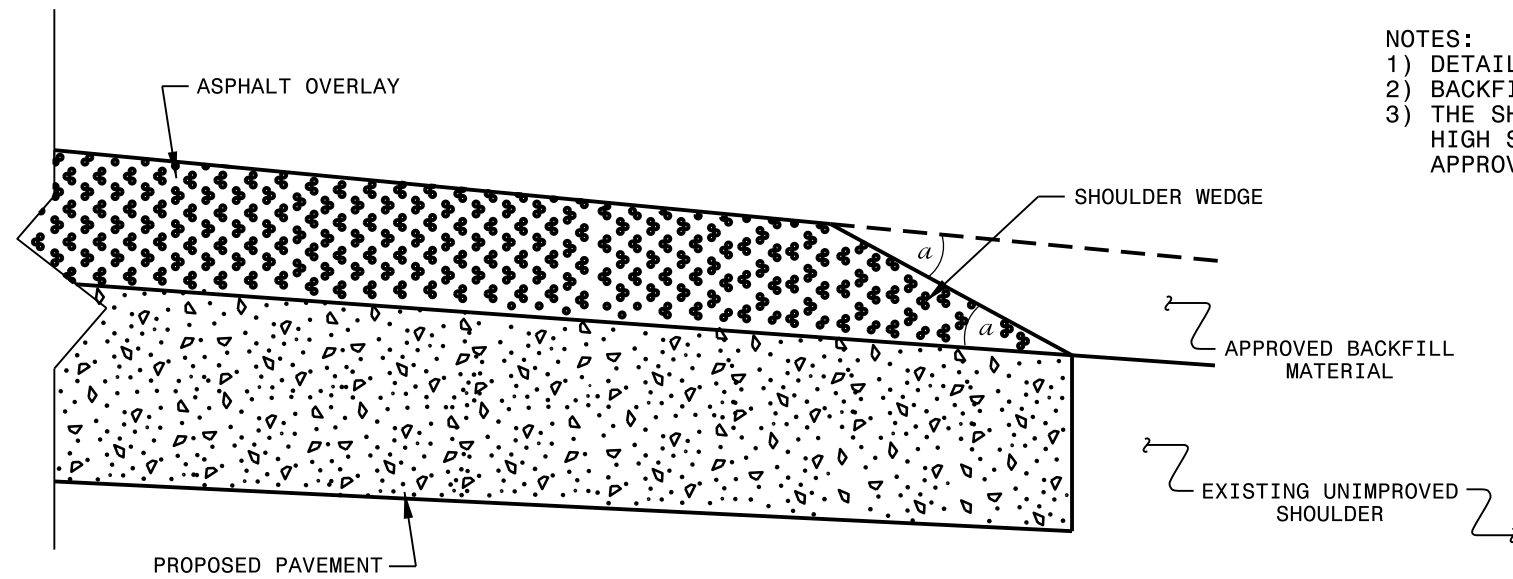


DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES



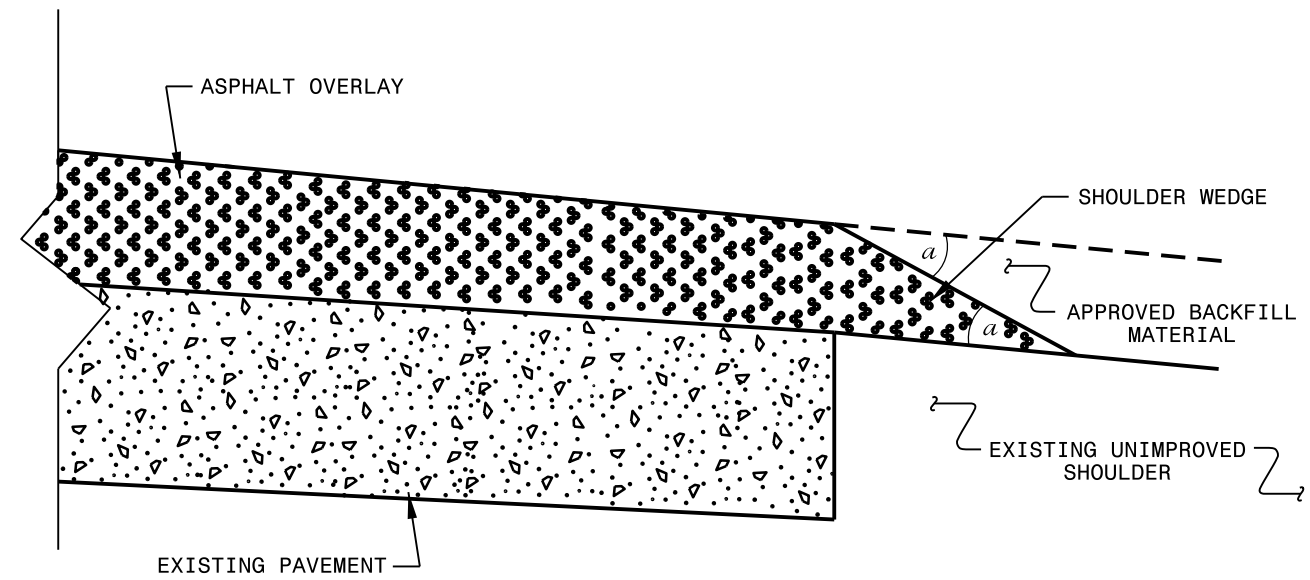
NOTES:

- 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.



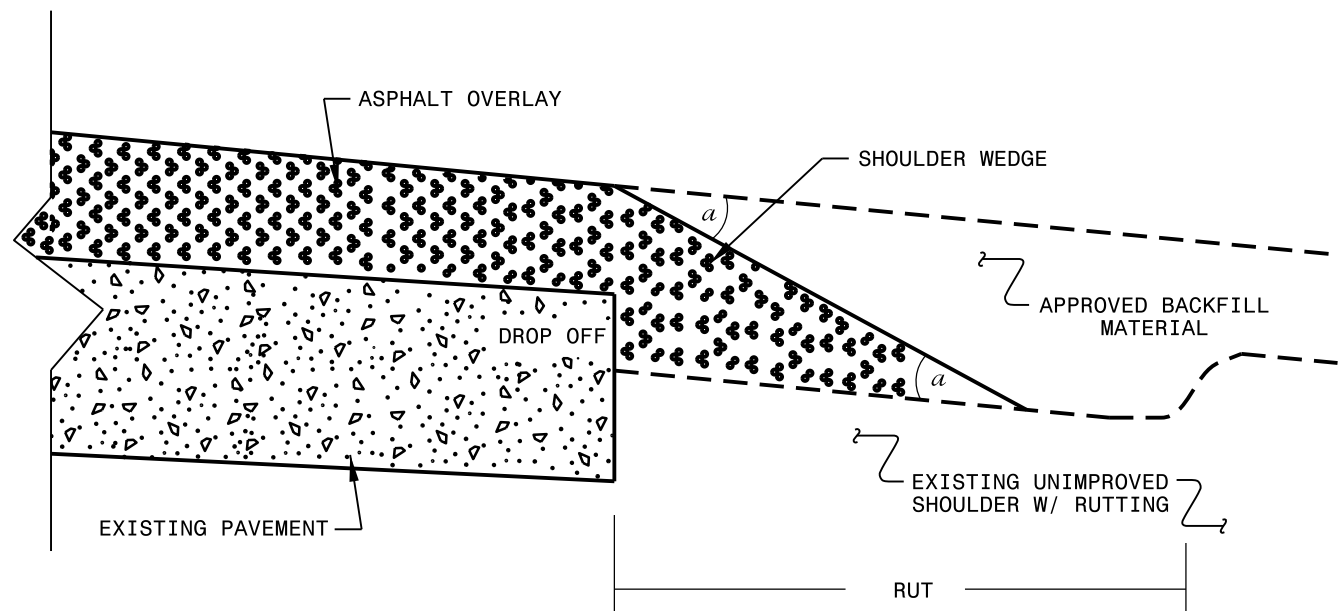
SHOULDER WEDGE DETAIL

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



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)



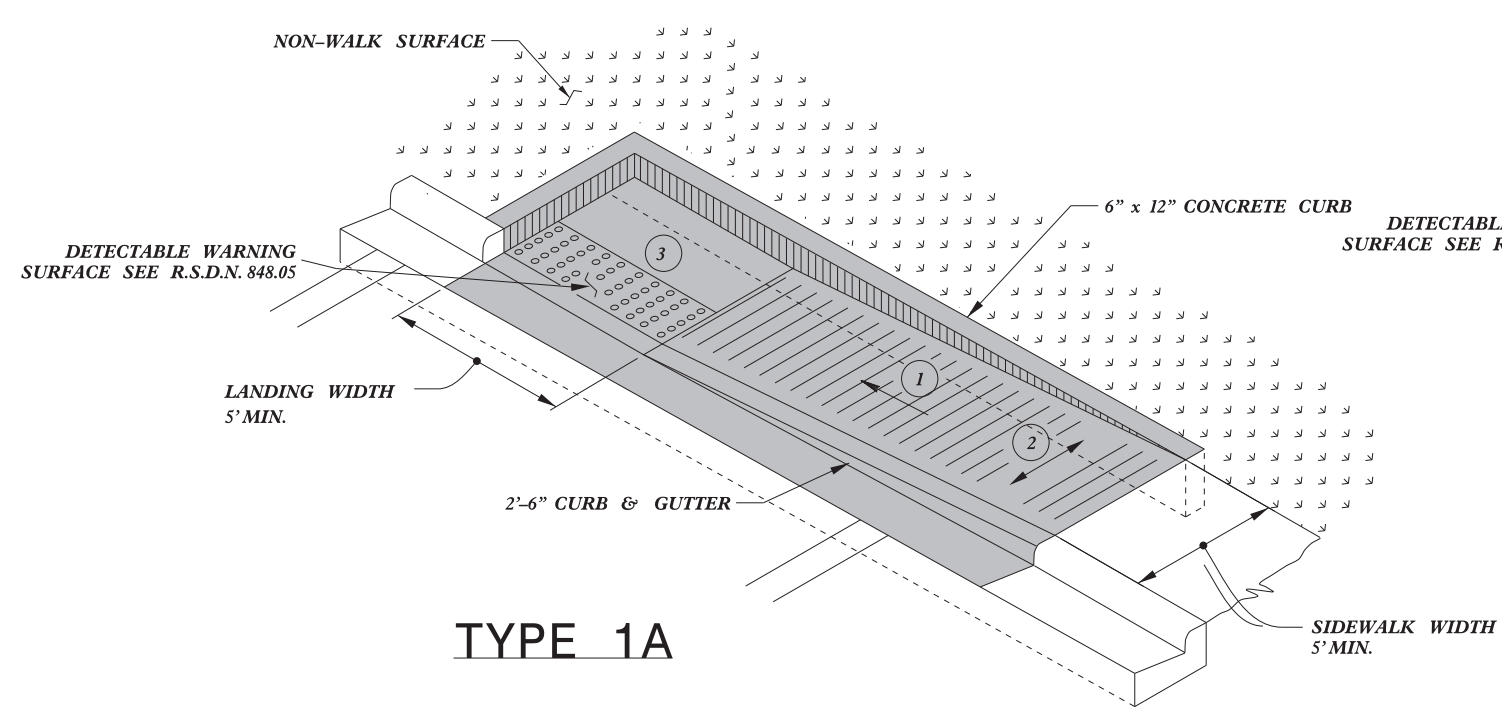
SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

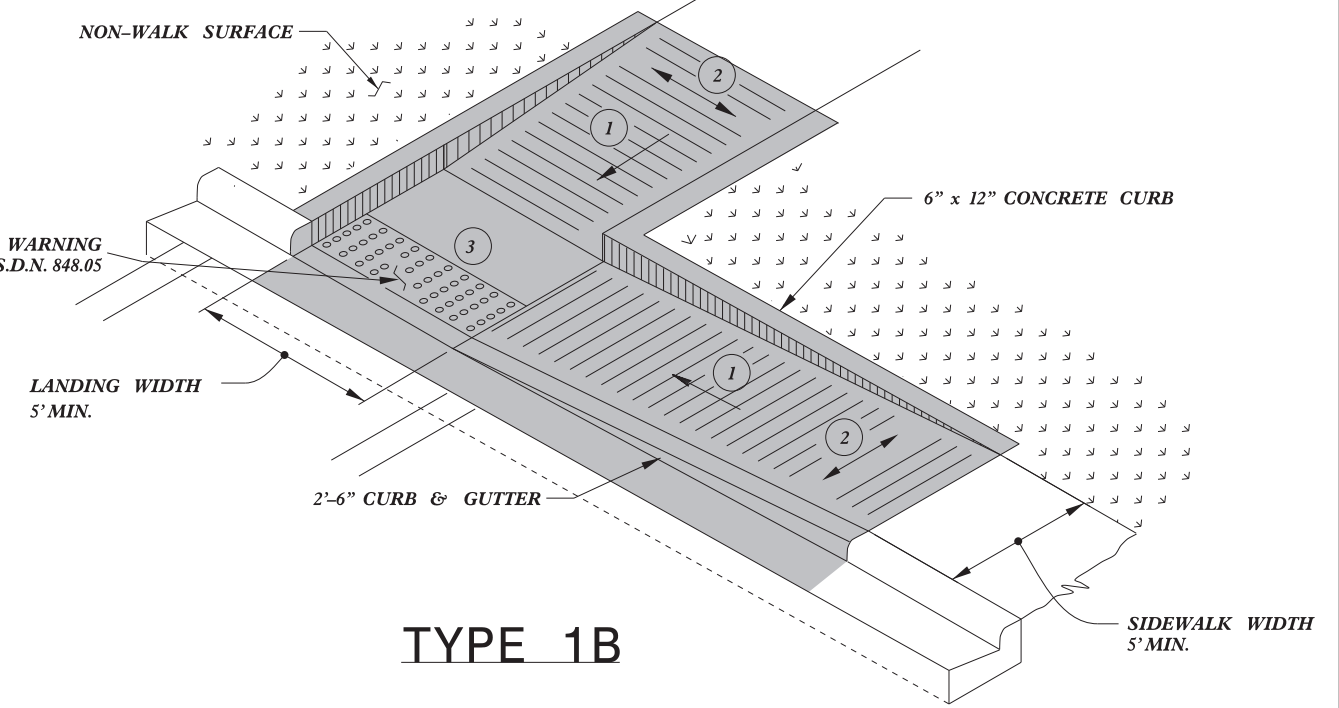
- SHOULDER WEDGE ANGLE = 30°

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

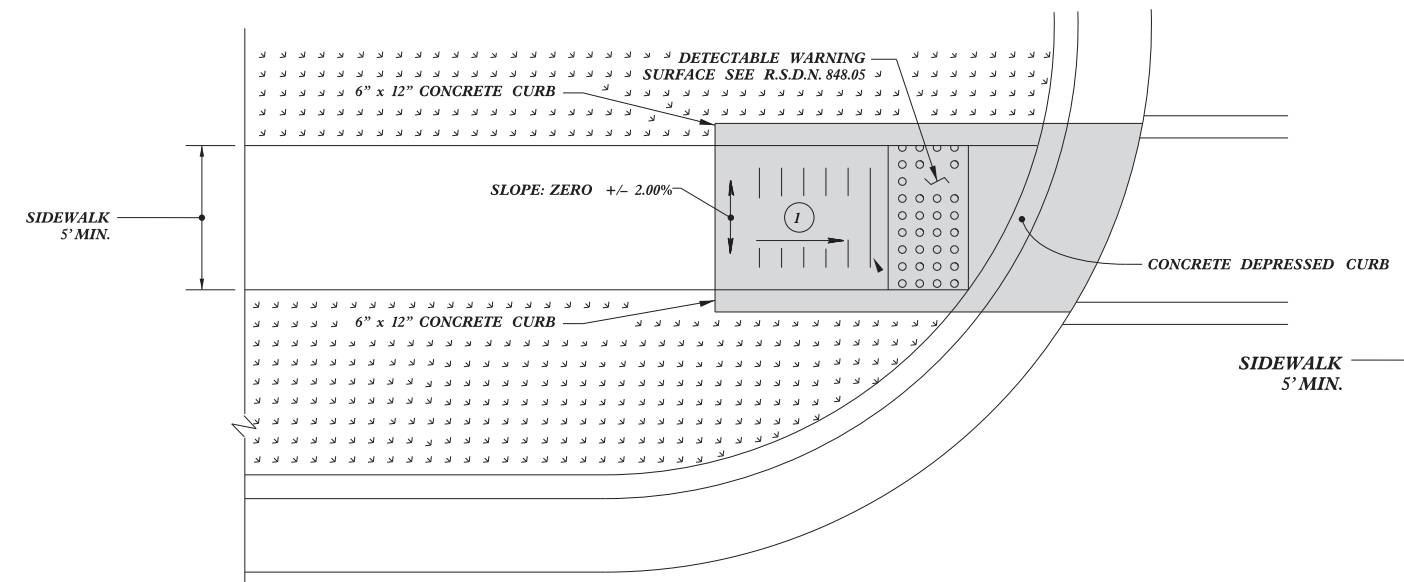
5/14/99



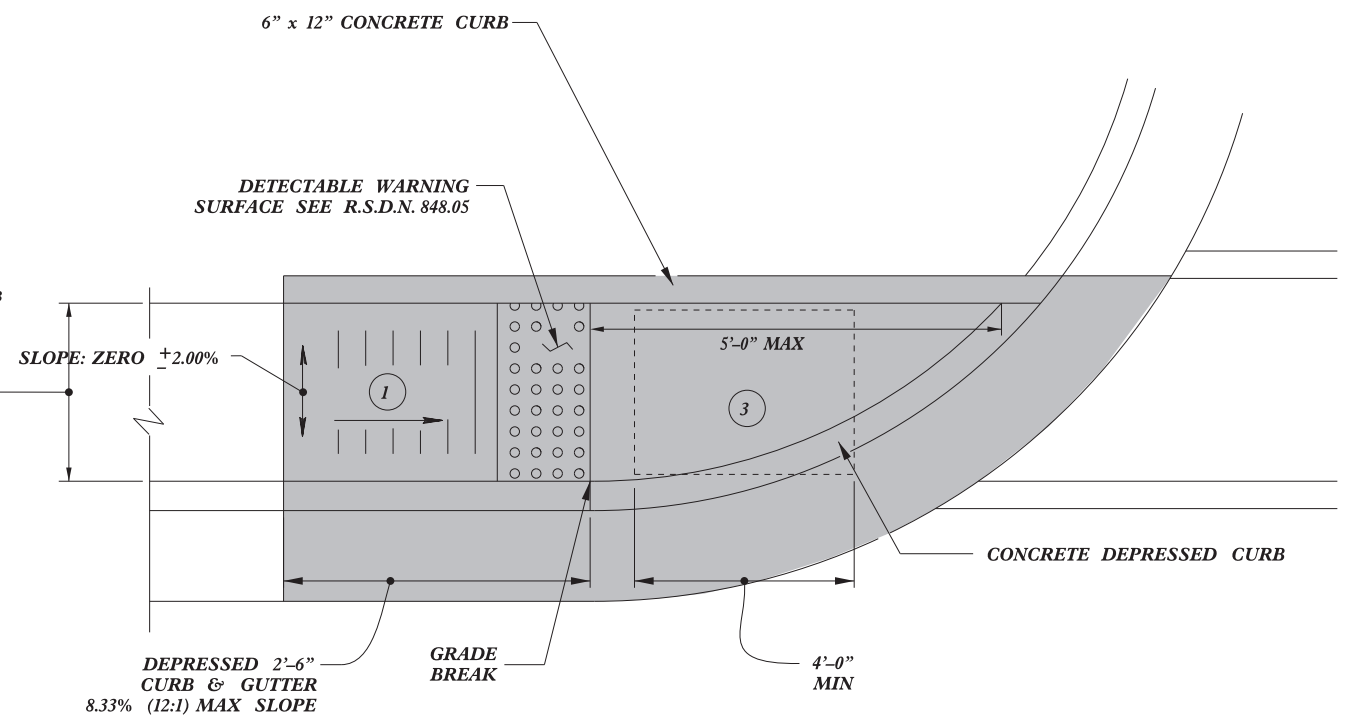
TYPE 1A



TYPE 1B



TYPE 1 Modified



TYPE 1

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

PAY LIMITS FOR 1 CURB RAMP

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

1/8/2020



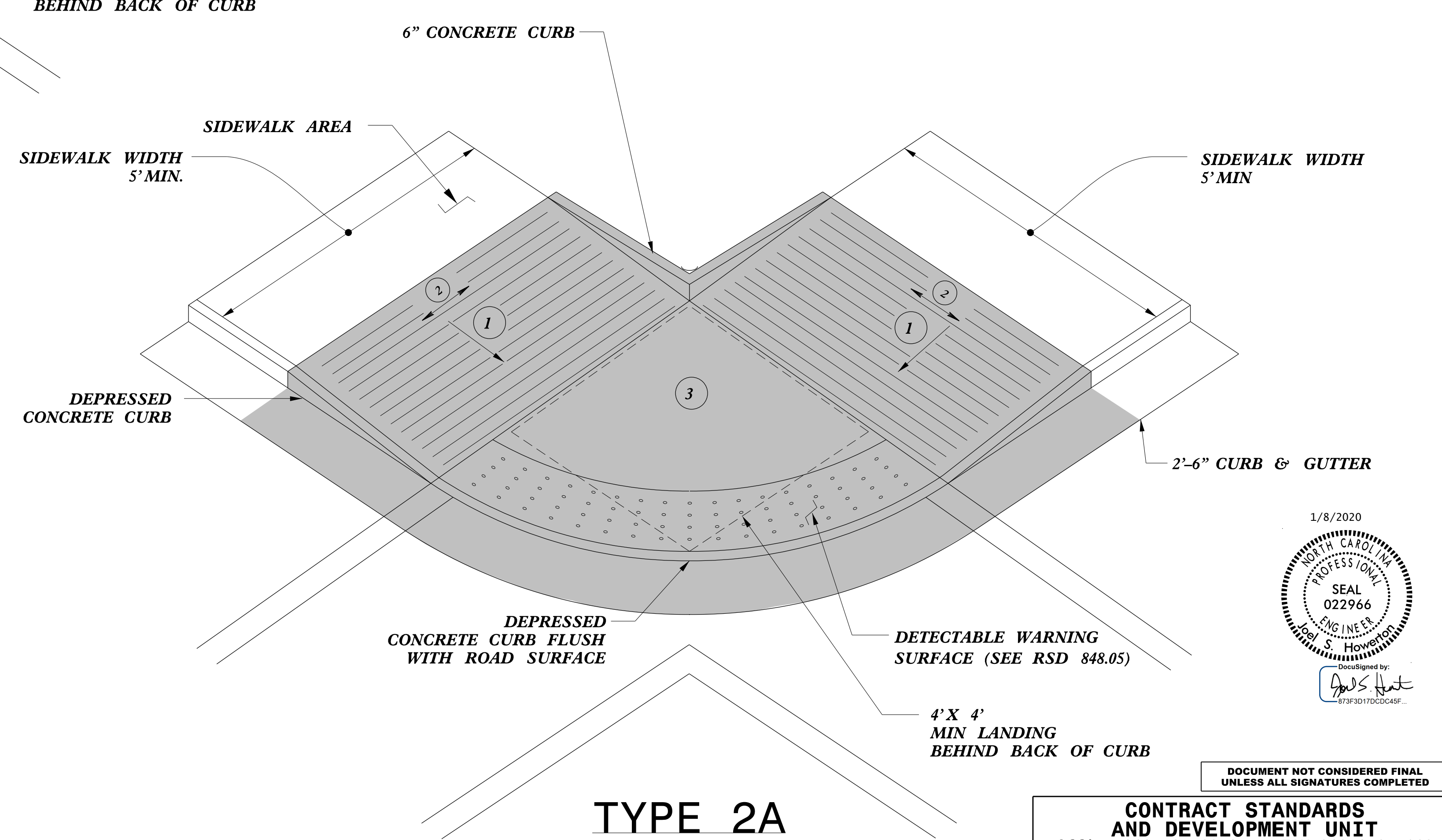
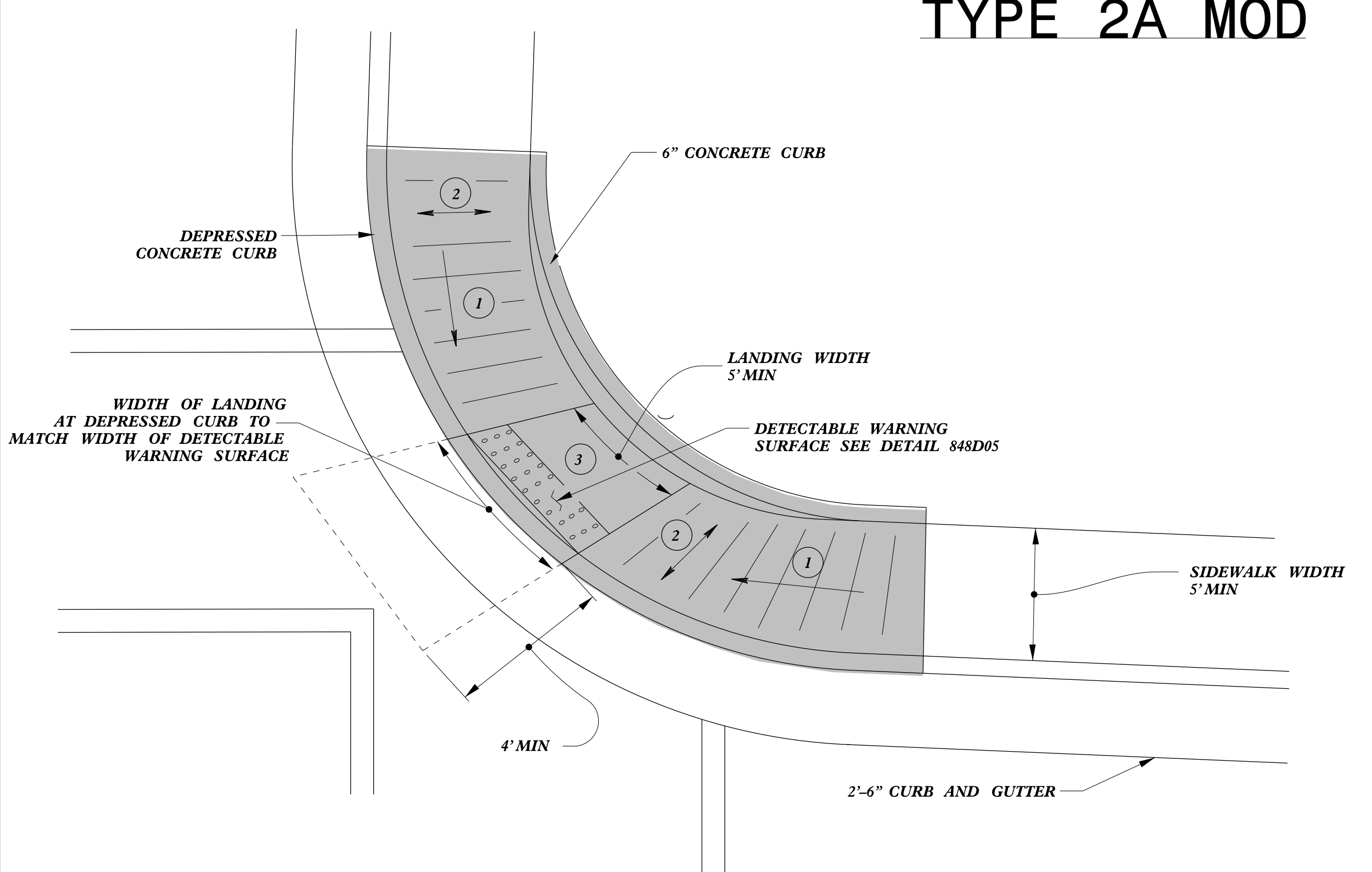
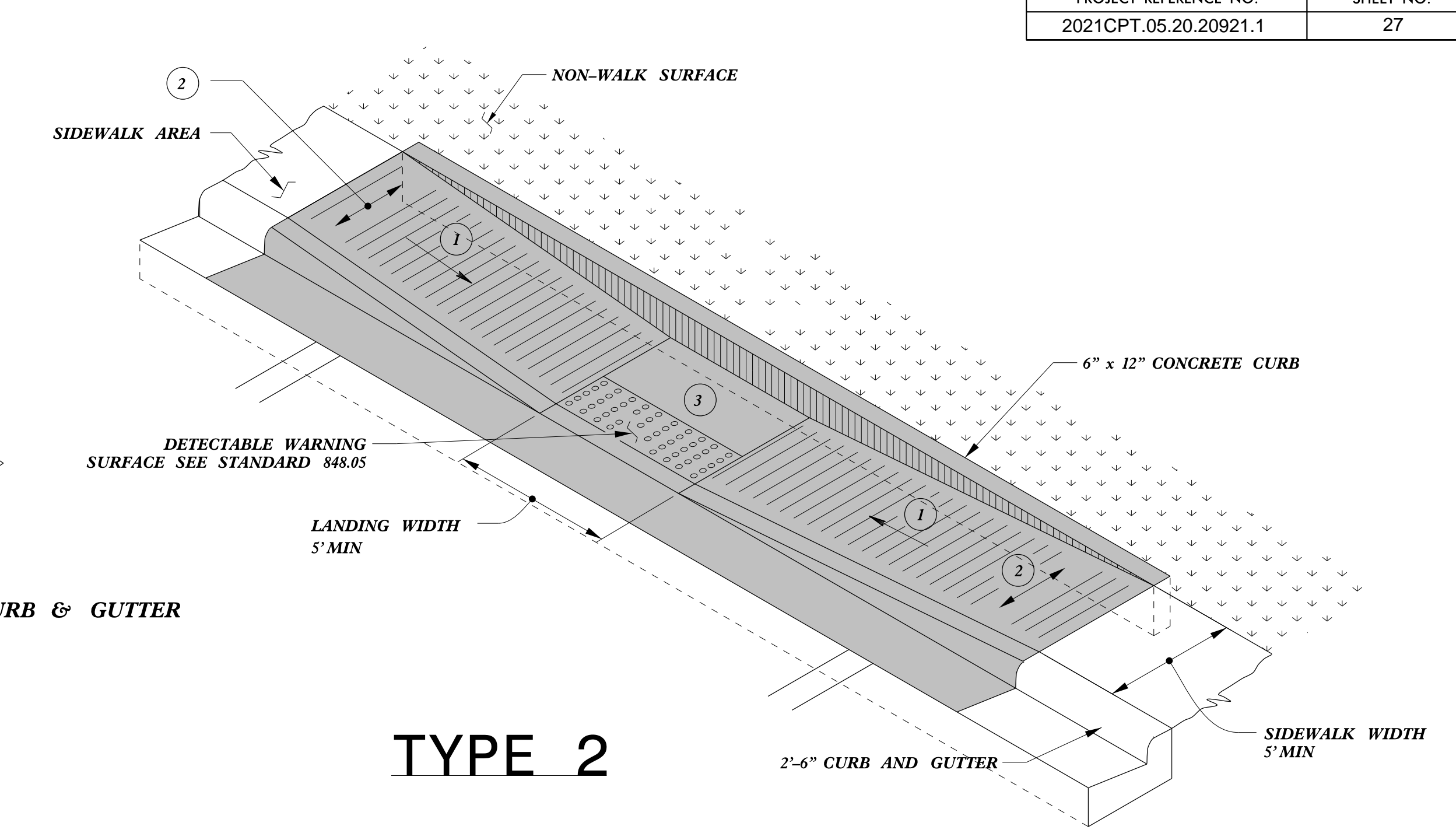
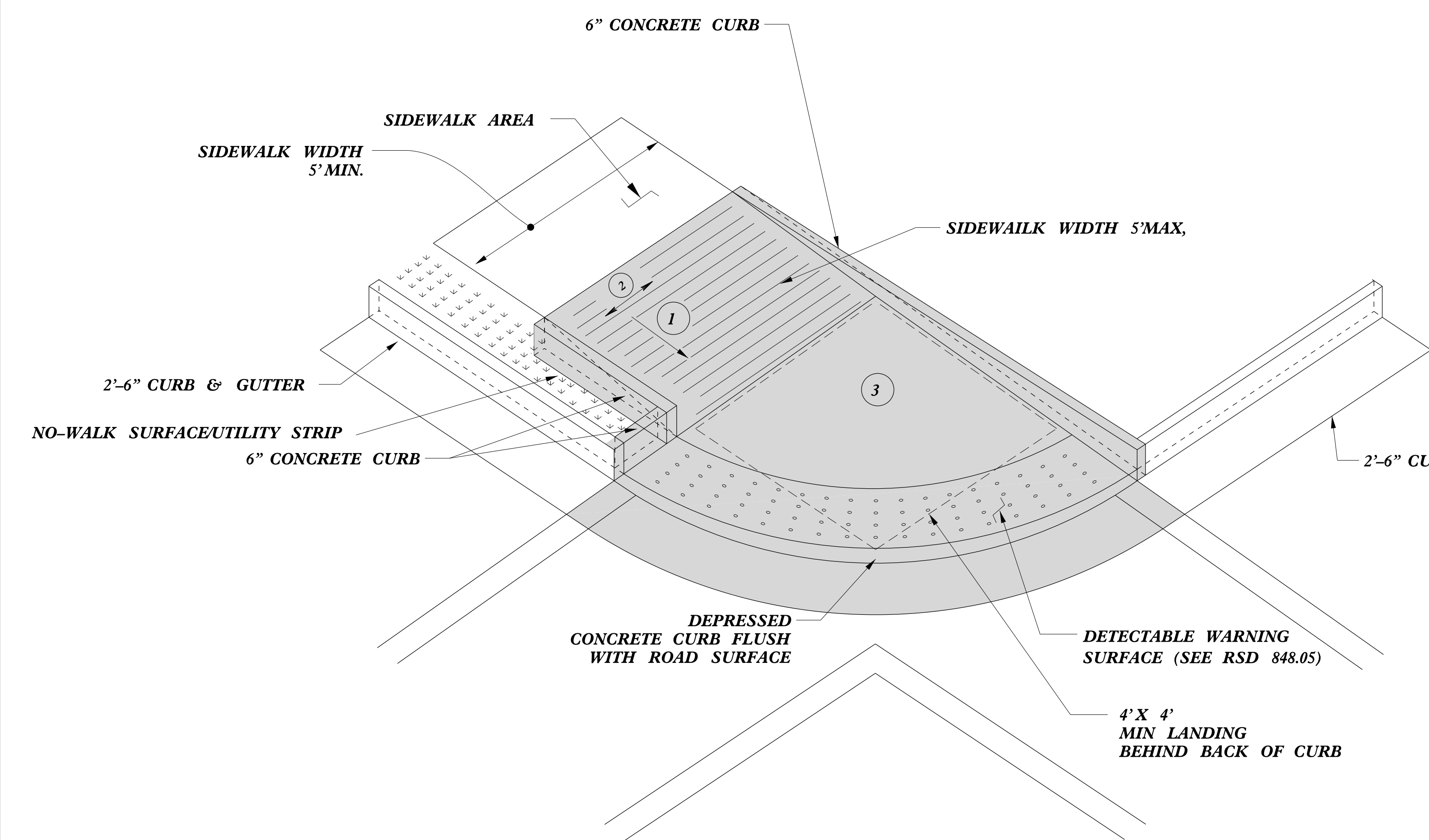
Designed by:
J.S. Howerton

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

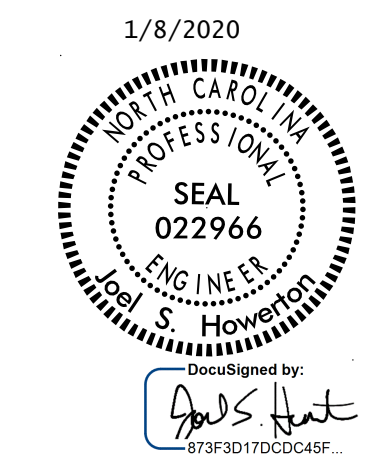
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5/14/99



- 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

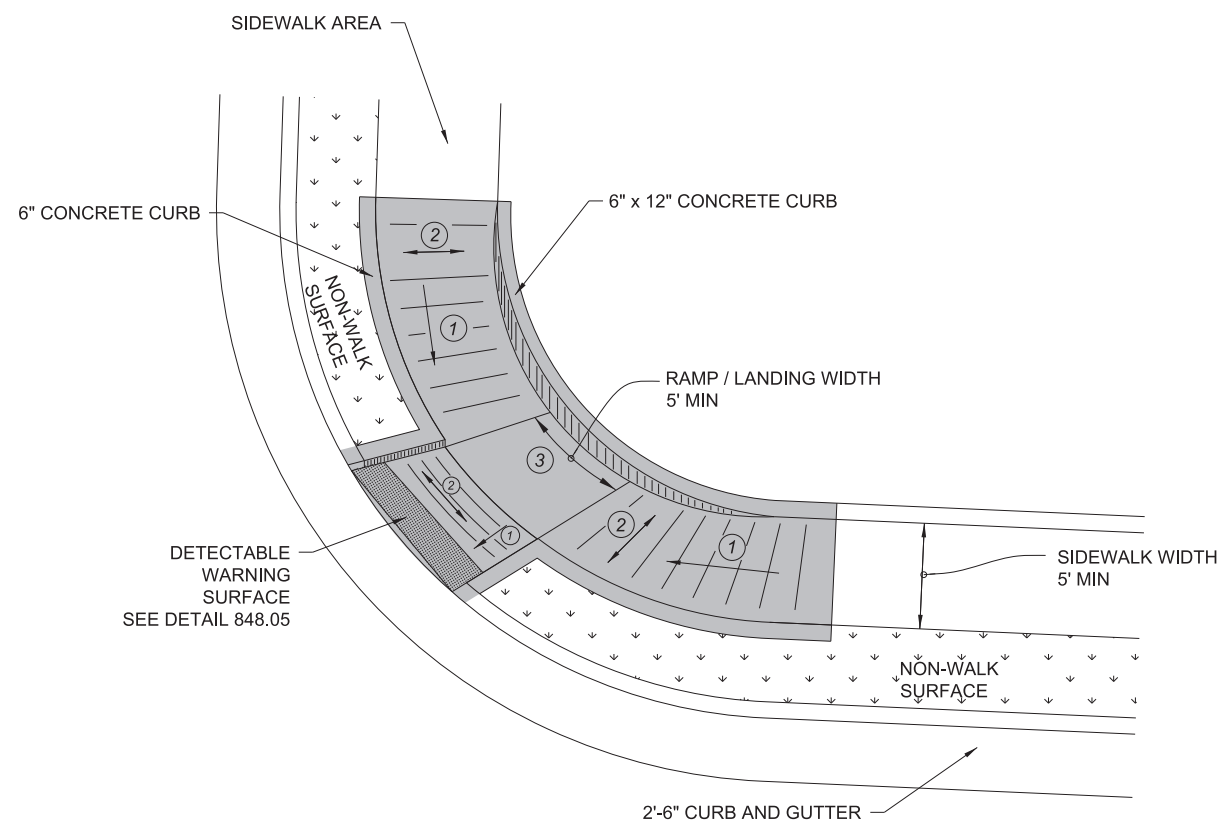


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

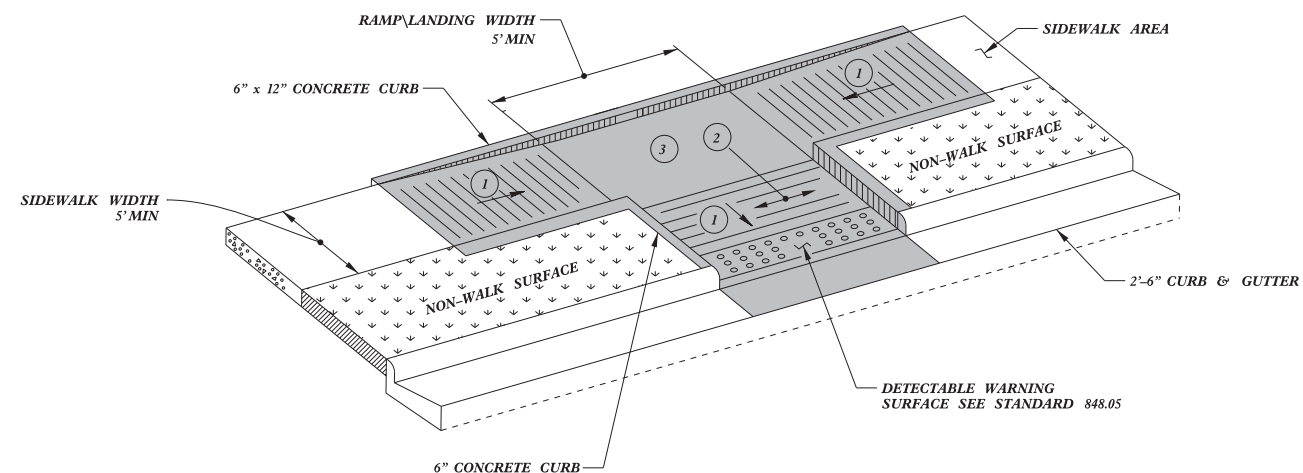
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. :stds\2012CurbRamp\CurbRampDetails.dgn	

DATE PLOTTED: 11/14/2019 10:58:58 AM USERNAME: JUSURNAME

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.

1/8/2020



Designed by:

J.S. Howerton
873F3D17DCDC45F..

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

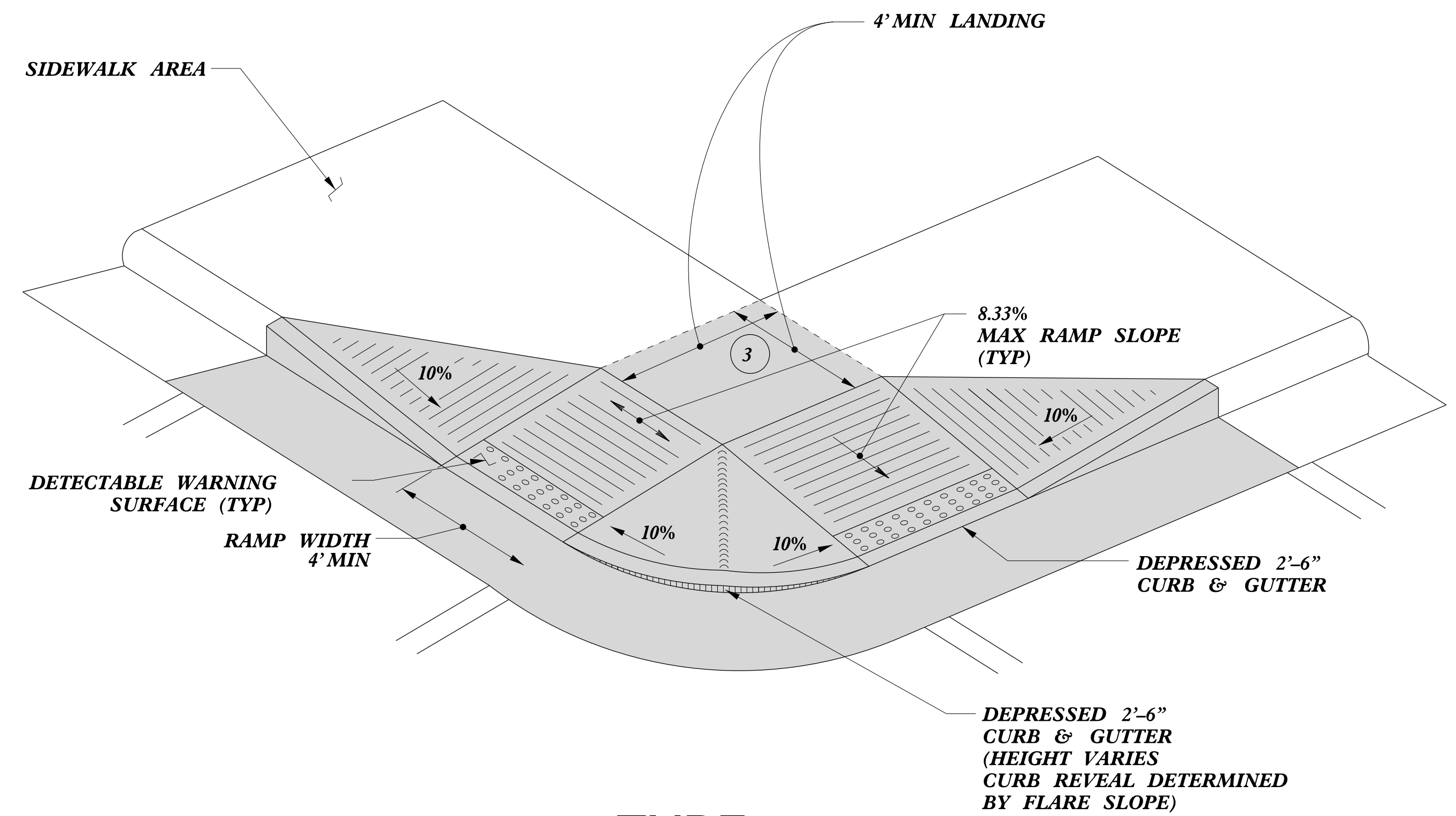
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

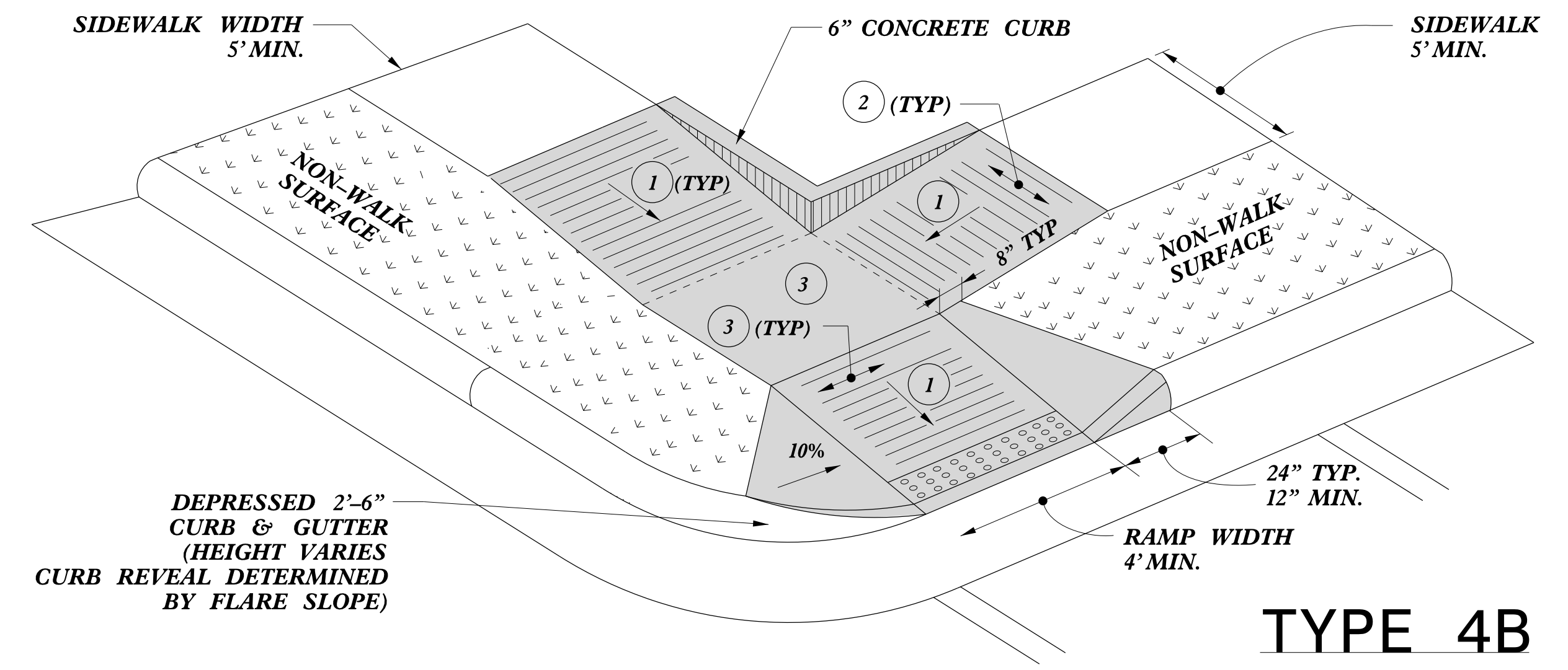
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: sids/2012CurbRamp/CurbRampDetails.dgn

5/14/99
SY-CURB-RAMP-DETAILS.dwg
J.S. HOWERTON
1/8/2020

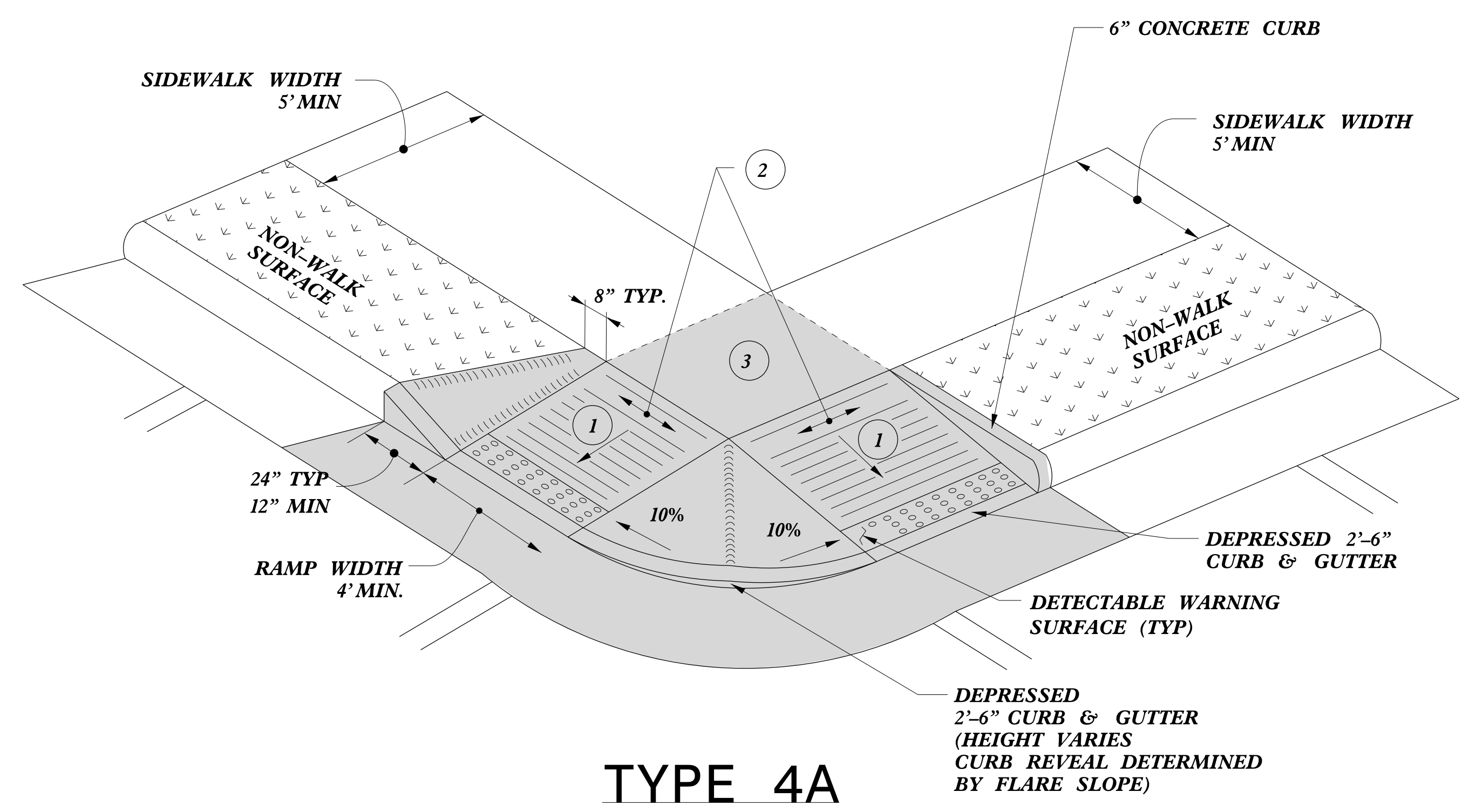
PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF TRUNCATED DOMES)



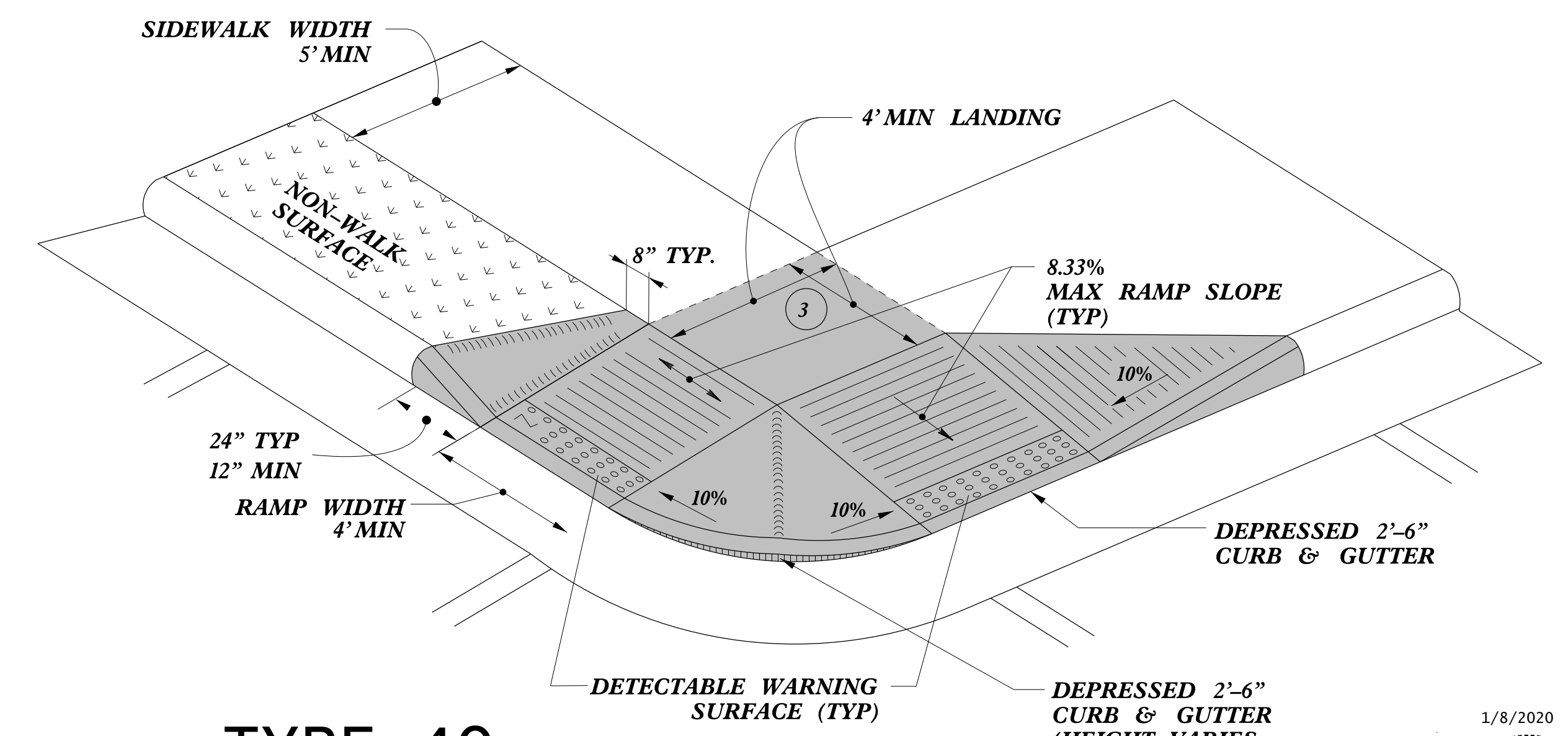
TYPE 4



TYPE 4B

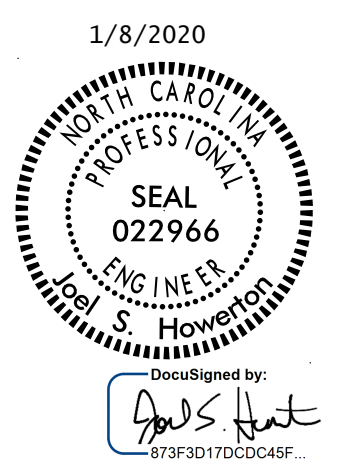


TYPE 4A



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.



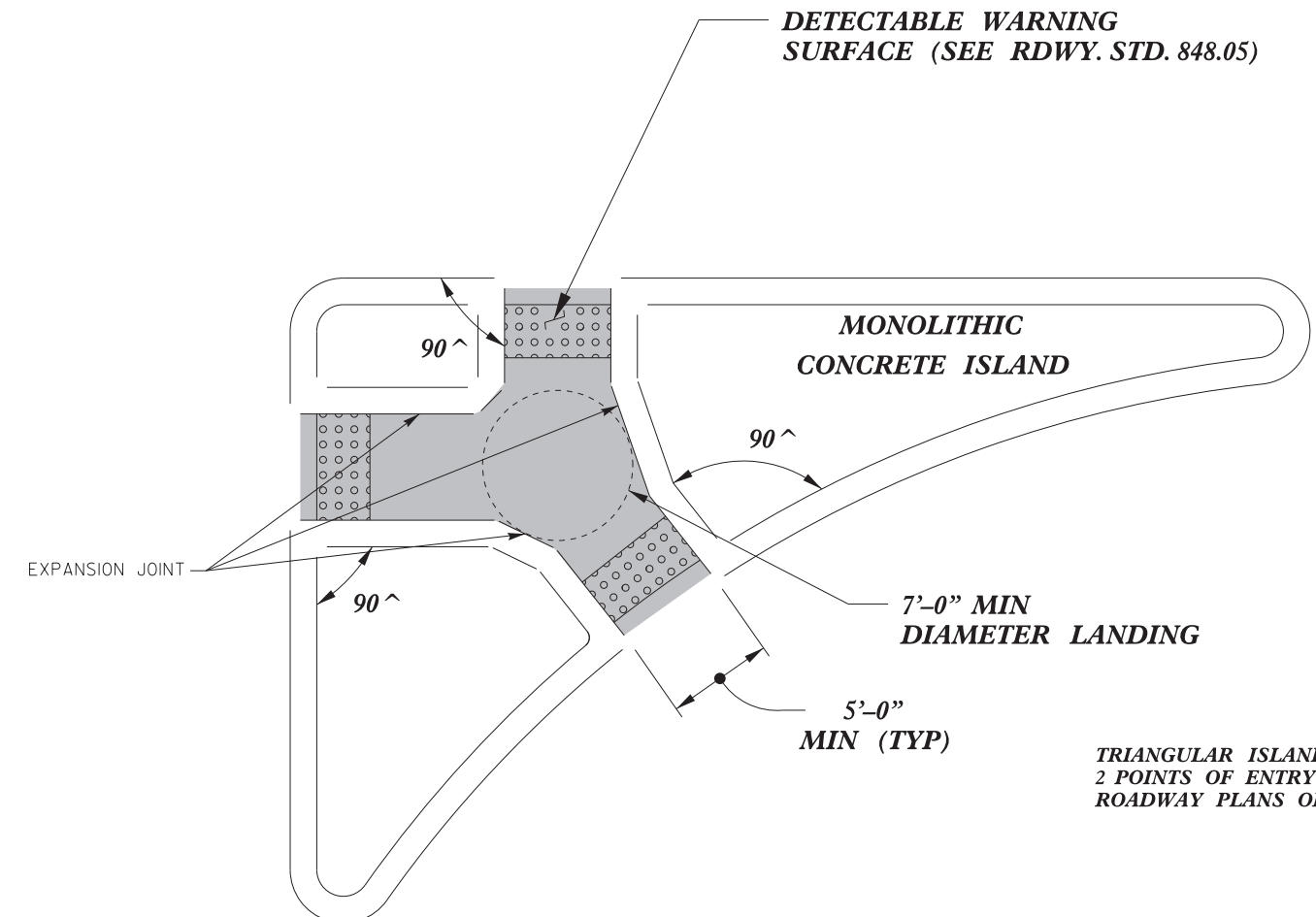
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

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

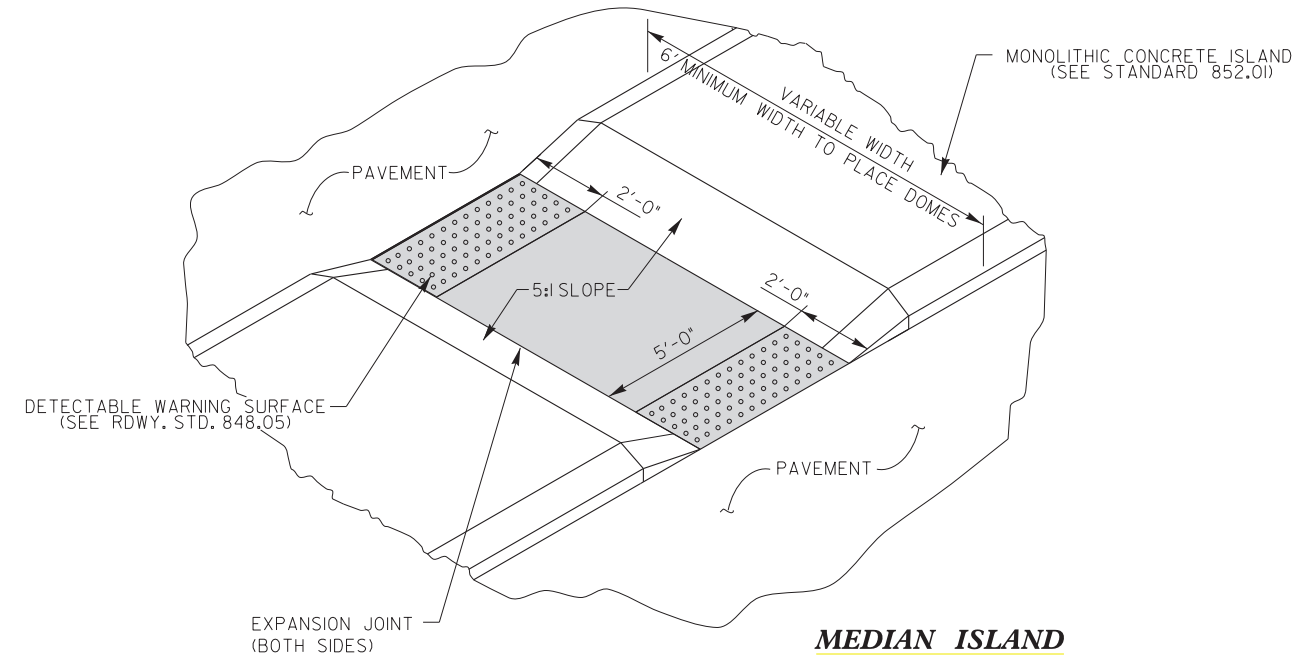
5/14/99
 TIME
 USER
 CURB RAMPS



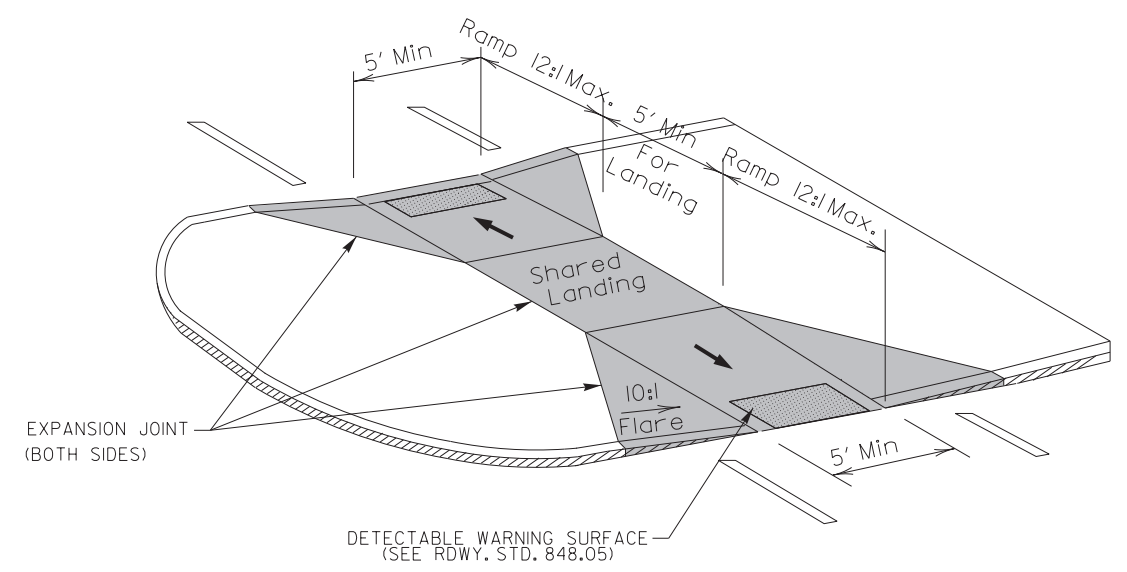
PAY LIMITS FOR 2 OR 3 CURB RAMPS
(CALCULATE BASED ON NUMBER OF
SETS OF TRUNCATED DOMES)

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
1/8/2020**

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. sids/2012CurbRamp/CurbRampDetails.dgn	

Seal of a Professional Engineer, State of North Carolina, License No. 022966. The seal is circular with the text 'NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022966'. Below the seal is a signature and the text '873F3D17DCDC45F...'.

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

SUMMARY OF QUANTITIES - AVIATION PKWY FROM GATEWAY CENTRE BLVD TO DOMINION DR / BEG C&G

Municipality:	Outside Municipality
Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Adjustment of Meter Boxes or Valve Boxes EA	Retrofit Existing Curb Ramps EA	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
13707	1	SR-1002 (Aviation Pkwy)	Gateway Centre Blvd					1			Type1Modified
13708	1	SR-1002 (Aviation Pkwy)	Gateway Centre Blvd						1		Type7
13710	1	SR-1002 (Aviation Pkwy)	Gateway Centre Blvd						1		Type7
13711	1	SR-1002 (Aviation Pkwy)	Gateway Centre Blvd	14	8					1	Remove Ramp
13709	1	SR-1002 (Aviation Pkwy)	Gateway Centre Blvd				1				RetrofitWarnings
13712	1	SR-1002 (Aviation Pkwy)	Lake Crabtree Park				1				RetrofitWarnings
Sub-Total for Aviation Pkwy From Gateway Centre Blvd To Dominion Dr / Beg C&G				14	8	0	2	1	2	1	

SUMMARY OF QUANTITIES – AVIATION PKWY FROM DOMINION DR / BEG C&G TO INTERNATIONAL DR / END C&G

Municipality:	Morrisville
Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1	Improvement Type
				2'-6" Concrete Curb & Gutter	4" Concrete Sidewalk	Adjustment of Meter Boxes or Valve Boxes	Retrofit Existing Curb Ramps	Remove and Replace Curb Ramps	Concrete Curb Ramps	Remove Curb Ramps	
				LF	SY	EA	EA	EA	EA	EA	
13689	1	SR-1002 (Aviation Pkwy)	Dominion Dr	15	9					1	Remove Ramp
13690	1	SR-1002 (Aviation Pkwy)	Dominion Dr					1			Type3Modified
13691	1	SR-1002 (Aviation Pkwy)	Dominion Dr					1			Type1Modified
13692	1	SR-1002 (Aviation Pkwy)	Dominion Dr	12	7					1	Remove Ramp
13686	2	SR-1002 (Aviation Pkwy)	Office Park (1101 Aviation Pkwy) Entrance						1		Type7
13687	2	SR-1002 (Aviation Pkwy)	Office Park (1101 Aviation Pkwy) Entrance						1		Type7
13683	3	SR-1002 (Aviation Pkwy)	Office Park (1015 Aviation parkway) Entrance					1			Type1Modified
13684	3	SR-1002 (Aviation Pkwy)	Office Park (1015 Aviation parkway) Entrance					1			Type1Modified
13699	4	SR-1002 (Aviation Pkwy)	Warehouse (900 Aviation parkway) North Entrance					1			Type1Modified
13700	4	SR-1002 (Aviation Pkwy)	Warehouse (900 Aviation parkway) North Entrance					1			Type1Modified
13681	5	SR-1002 (Aviation Pkwy)	Office Park (991 Aviation parkway) Entrance					1			Type1Modified
13682	5	SR-1002 (Aviation Pkwy)	Office Park (991 Aviation parkway) Entrance					1			Type1Modified
13680	6	SR-1002 (Aviation Pkwy)	Office Park (951 Aviation parkway) Entrance					1			Type1Modified
13701	7	SR-1002 (Aviation Pkwy)	Warehouse (900 Aviation parkway) South Entrance					1			Type1Modified
13702	7	SR-1002 (Aviation Pkwy)	Warehouse (900 Aviation parkway) South Entrance					1			Type1Modified
13703	8	SR-1002 (Aviation Pkwy)	Office Center (860 Aviation Pkwy) Entrance					1			Type1Modified
13704	8	SR-1002 (Aviation Pkwy)	Office Center (860 Aviation Pkwy) Entrance					1			Type1Modified
13705	9	SR-1002 (Aviation Pkwy)	Southport Dr					1			Standard - 848.06
13677	9	SR-1002 (Aviation Pkwy)	Southport Dr				1				RetrofitWarnings
13706	9	SR-1002 (Aviation Pkwy)	Southport Dr				1				RetrofitWarnings
13676	10	SR-1002 (Aviation Pkwy)	Village Deli and Grill (909 Aviation Pkwy)					1			Type1Modified
13675	10	SR-1002 (Aviation Pkwy)	Village Deli and Grill (909 Aviation Pkwy)				1				RetrofitWarnings
13674	11	SR-1002 (Aviation Pkwy)	Pharma Drive					1			Type1Modified
Sub-Total for Aviation Pkwy From Dominion Dr / Beg C&G To International Dr / End C&G				27	16	0	3	16	2	2	

SUMMARY OF QUANTITIES – AVIATION PKWY FROM INTERNATIONAL DR / END C&G TO END 2 LANE / BEG C&G

Municipality:	Morrisville
Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Adjustment of Meter Boxes or Valve Boxes EA	Retrofit Existing Curb Ramps EA	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
24223	1	SR-1002 (Aviation Pkwy)	309 Aviation Pkwy (Hindu Society of NC) Entrance				1				RetrofitWarnings
24222	2	SR-1002 (Aviation Pkwy)	Bearcat Way					1			Type1,Modified
Sub-Total for Aviation Pkwy From International Dr / End C&G To End 2 Lane / Beg C&G				0	0	0	1	1	0	0	

SUMMARY OF QUANTITIES – MORRISVILLE PKWY FROM / TO SR 1613 TO / FROM PVMT JT AT SR 1617

Municipality:	Cary
Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Adjustment of Meter Boxes or Valve Boxes EA	Retrofit Existing Curb Ramps EA	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
14730	1	SR-3060 (Morrisville Pkwy)	Great Lake Dr					1			Type1Modified
14731	1	SR-3060 (Morrisville Pkwy)	Great Lake Dr					1			Type1Modified
14732	1	SR-3060 (Morrisville Pkwy)	Preston Village Way					1			Type3Modified
14733	1	SR-3060 (Morrisville Pkwy)	Preston Village Way	17	10					1	Remove Ramp
14734	1	SR-3060 (Morrisville Pkwy)	Preston Village Way					1			Type1Modified
14725	2	SR-3060 (Morrisville Pkwy)	Lake Tillery Dr					1			Type1Modified
14726	2	SR-3060 (Morrisville Pkwy)	Lake Tillery Dr					1			Type1Modified
14723	3	SR-3060 (Morrisville Pkwy)	Ashmore Dr					1			Type1Modified
14724	3	SR-3060 (Morrisville Pkwy)	Ashmore Dr					1			Type1Modified
Sub-Total for Morrisville Pkwy From / To SR 1613 To / From PvmT Jt At SR 1617				17	10	0	0	8	0	1	

SUMMARY OF QUANTITIES – MORRISVILLE PKWY FROM / TO PVMT JT WEST OF CRABTREE CROSSING PKWY TO / FROM SR 1613

Municipality:	Morrisville
Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Adjustment of Meter Boxes or Valve Boxes EA	Retrofit Existing Curb Ramps EA	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
9681	1	SR-3060 (Morrisville Pkwy)	1519 Morrisville Pkwy (Morrisville Elementary School) West Entrance					1			Type1Modified
9696	2	SR-3060 (Morrisville Pkwy)	Huntington Park Dr					1			Type1Modified
9697	2	SR-3060 (Morrisville Pkwy)	Huntington Park Dr					1			Type1Modified
9698	3	SR-3060 (Morrisville Pkwy)	Golden Horseshoe Cir					1			Type3Modified
9699	3	SR-3060 (Morrisville Pkwy)	Golden Horseshoe Cir					1			Type1Modified
9677	4	SR-3060 (Morrisville Pkwy)	1519 Morrisville Pkwy (Morrisville Elementary School) East Entrance					1			Type1Modified
9678	4	SR-3060 (Morrisville Pkwy)	1519 Morrisville Pkwy (Morrisville Elementary School) East Entrance					1			Type8
9679	4	SR-3060 (Morrisville Pkwy)	1519 Morrisville Pkwy (Morrisville Elementary School) East Entrance					1			Type8
9680	4	SR-3060 (Morrisville Pkwy)	1519 Morrisville Pkwy (Morrisville Elementary School) East Entrance					1			Type2A
9701	4	SR-3060 (Morrisville Pkwy)	Golden Horseshoe Cir					1			Type1Modified
9702	4	SR-3060 (Morrisville Pkwy)	Golden Horseshoe Cir					1			Type3Modified
24224	4	SR-3060 (Morrisville Pkwy)	Golden Horseshoe Cir	18	10					1	Remove Ramp
24225	4	SR-3060 (Morrisville Pkwy)	Golden Horseshoe Cir	16	10					1	Remove Ramp
9676	5	SR-3060 (Morrisville Pkwy)	Sarazen Meadow Way					1			Type3Modified
9675	5	SR-3060 (Morrisville Pkwy)	Sarazen Meadow Way				1				RetrofitWarnings
9703	6	SR-3060 (Morrisville Pkwy)	Duck Pond Cir					1			Type2AModified
9705	6	SR-3060 (Morrisville Pkwy)	Duck Pond Cir					1			Type2AModified
9706	6	SR-3060 (Morrisville Pkwy)	Duck Pond Cir					1			Type8
9707	6	SR-3060 (Morrisville Pkwy)	Duck Pond Cir					1			Type8
9708	6	SR-3060 (Morrisville Pkwy)	Duck Pond Cir					1			Type1Modified
9669	7	SR-3060 (Morrisville Pkwy)	Creek Park Dr					1			Type1Modified
9709	7	SR-3060 (Morrisville Pkwy)	Black Ridge St					1			Type1Modified
9710	7	SR-3060 (Morrisville Pkwy)	Black Ridge St				1				RetrofitWarnings
9711	8	SR-3060 (Morrisville Pkwy)	Waltons Creek Rd					1			Type1Modified
9712	8	SR-3060 (Morrisville Pkwy)	Waltons Creek Rd					1			Type2B
9713	9	SR-3060 (Morrisville Pkwy)	Waltons Creek Rd	17	10					1	Remove Ramp
9714	9	SR-3060 (Morrisville Pkwy)	Waltons Creek Rd					1			Type3Modified
9715	9	SR-3060 (Morrisville Pkwy)	Waltons Creek Rd					1			Type1Modified
9716	9	SR-3060 (Morrisville Pkwy)	Waltons Creek Rd	19	11					1	Remove Ramp
9663	10	SR-3060 (Morrisville Pkwy)	Four meadows In					1			Type1Modified
9664	10	SR-3060 (Morrisville Pkwy)	Four meadows In					1			Type1Modified
Sub-Total for Morrisville Pkwy From / To Pvmt Jt West of Crabtree Crossing Pkwy To / From SR 1613				70	41	0	2	25	0	4	

SUMMARY OF QUANTITIES – RELIANCE AVE FROM SR 1010 TO END MAINT

Municipality:	Apex, Outside Municipality
Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Adjustment of Meter Boxes or Valve Boxes EA	Retrofit Existing Curb Ramps EA	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
8520	1	SR-1010 (Ten Ten Rd)	2125 Ten Ten Rd (Pinnacle Plaza) Entrance					1			Standard - 848.06
8521	1	SR-1010 (Ten Ten Rd)	2125 Ten Ten Rd (Pinnacle Plaza) Entrance					1			Standard - 848.06
24227	2	SR-4070 (Reliance Ave)	2110 Ten Ten Ave (Public Storage) Reliance Ave Entrance				1				RetrofitWarnings
5496	3	SR-4070 (Reliance Ave)	2425 Reliance Ave (Movin on Movers) North Entrance				1				RetrofitWarnings
5497	3	SR-4070 (Reliance Ave)	2425 Reliance Ave (Movin on Movers) North Entrance				1				RetrofitWarnings
5494	4	SR-4070 (Reliance Ave)	2425 Reliance Ave (Movin on Movers) South Entrance				1				RetrofitWarnings
5495	4	SR-4070 (Reliance Ave)	2425 Reliance Ave (Movin on Movers) South Entrance				1				RetrofitWarnings
5492	5	SR-4070 (Reliance Ave)	2435 Reliance Ave (Southeastern Sign Supply) Entrance				1				RetrofitWarnings
5493	5	SR-4070 (Reliance Ave)	2435 Reliance Ave (Southeastern Sign Supply) Entrance				1				RetrofitWarnings
Sub-Total for Reliance Ave From SR 1010 To End Maint				0	0	0	7	2	0	0	

SUMMARY OF QUANTITIES – EDERLEE DR / REGENCY PKWY FROM SR 1379 TO SR 1009

Municipality:	Cary
Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Adjustment of Meter Boxes or Valve Boxes EA	Retrofit Existing Curb Ramps EA	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
8062	1	SR-1009 (Tryon Rd)	SR-4067 (Regency Pkwy)	13						1	Remove Ramp
8401	2	SR-4067 (Regency Pkwy)	2500 Regency Pkwy (Regus) Entrance					1			Type1Modified
8400	3	SR-4067 (Regency Pkwy)	2700 Regency Pkwy (Exxon gas station) Entrance					1			Type1Modified
8399	3	SR-4067 (Regency Pkwy)	2700 Regency Pkwy (Exxon gas station) Entrance					1			Type1Modified
8376	4	SR-4067 (Regency Pkwy)	2000 Regency Pkwy (Office Park) South Entrance	18	5					1	Remove Ramp
8378	4	SR-4067 (Regency Pkwy)	2000 Regency Pkwy (Office Park) South Entrance					1			Type1Modified
8397	4	SR-4067 (Regency Pkwy)	2900 Regency Pkwy (Residence Inn) North Entrance					1			Type3Modified
8398	4	SR-4067 (Regency Pkwy)	2900 Regency Pkwy (Residence Inn) North Entrance					1			Type3Modified
8379	5	SR-4067 (Regency Pkwy)	Regency Forest Dr					1			Type1Modified
8380	5	SR-4067 (Regency Pkwy)	Regency Forest Dr					1			Type2AModified
8395	5	SR-4067 (Regency Pkwy)	2900 Regency Pkwy (Residence Inn) South Entrance					1			Standard - 848.06
8396	5	SR-4067 (Regency Pkwy)	2900 Regency Pkwy (Residence Inn) South Entrance					1			Type1Modified
8393	6	SR-4067 (Regency Pkwy)	3700 Regency Pkwy (Office Park) Entrance					1			Type1Modified
8394	6	SR-4067 (Regency Pkwy)	3700 Regency Pkwy (Office Park) Entrance					1			Type1Modified
8381	7	SR-4067 (Regency Pkwy)	8000 Regency Pkwy (Office Park) Entrance					1			Type1Modified
8382	7	SR-4067 (Regency Pkwy)	8000 Regency Pkwy (Office Park) Entrance					1			Type1Modified
8402	8	SR-4067 (Ederlee Dr)	Symphony Lake Greenway					1			DrivewayApron
24202	8	SR-4067 (Ederlee Dr)	Symphony Lake Greenway					1			Type3
8403	9	SR-4067 (Ederlee Dr)	Peregrine Pl					1			Type1Modified
8404	9	SR-4067 (Ederlee Dr)	Peregrine Pl					1			Type1Modified
8407	10	SR-4067 (Ederlee Dr)	Avenue Of The Estates	23	13					1	Remove Ramp
8405	10	SR-4067 (Ederlee Dr)	Regency Woods Pl					1			Type2B
8421	11	SR-4067 (Ederlee Dr)	Whitcomb Ln	20	16					1	Remove Ramp
Sub-Total for Ederlee Dr / Regency Pkwy From SR 1379 To SR 1009				74	34	0	0	19	0	4	

SUMMARY OF QUANTITIES – TRYON RD FROM SR 1004 TO US 70

Municipality:	Raleigh
Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1	Improvement Type
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Adjustment of Meter Boxes or Valve Boxes EA	Retrofit Existing Curb Ramps EA	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA	
6541	1	SR-2684 (Tryon Rd)	S Wilmington Service Rd						1		Type1Modified
6542	1	SR-2684 (Tryon Rd)	S Wilmington Service Rd					1			Type3Modified
6543	1	SR-2684 (Tryon Rd)	S Wilmington Service Rd	18	10					1	Remove Ramp
6544	1	SR-2684 (Tryon Rd)	S Wilmington Service Rd					1			Type1Modified
6540	2	SR-2684 (Tryon Rd)	331 Tryon Rd (AA Self Storage) West Entrance						1		Type1Modified
6539	2	SR-2684 (Tryon Rd)	331 Tryon Rd (AA Self Storage) West Entrance						1		Type1Modified
6533	3	SR-2684 (Tryon Rd)	326 Tryon Rd (Tower Engineering Professionals) West Entrance	25						1	Type1Modified
6534	3	SR-2684 (Tryon Rd)	326 Tryon Rd (Tower Engineering Professionals) West Entrance						1		Type1Modified
6532	4	SR-2684 (Tryon Rd)	331 Tryon Rd (AA Self Storage) East Entrance					1			Type1Modified
6531	4	SR-2684 (Tryon Rd)	331 Tryon Rd (AA Self Storage) East Entrance					1			Type1Modified
6530	5	SR-2684 (Tryon Rd)	326 Tryon Rd (Tower Engineering Professionals) East Entrance					1			Type1Modified
6524	5	SR-2684 (Tryon Rd)	326 Tryon Rd (Tower Engineering Professionals) East Entrance					1			Type3Modified
6526	5	SR-2684 (Tryon Rd)	326 Tryon Rd (Tower Engineering Professionals) East Entrance	14	9					1	Remove Ramp
6515	6	SR-2684 (Tryon Rd)	225 Tryon Road Entrance		9				1		Type1Modified
6521	6	SR-2684 (Tryon Rd)	225 Tryon Road Entrance	9						1	Remove Ramp
6519	6	SR-2684 (Tryon Rd)	225 Tryon Road Entrance					1			Type1Modified
6508	7	SR-2684 (Tryon Rd)	312 Tryon Rd (Calvacorp Ltd) Entrance				1				RetrofitWarnings
6505	7	SR-2684 (Tryon Rd)	205 Tryon Rd (Salvation Army) Entrance				1				RetrofitWarnings
6500	7	SR-2684 (Tryon Rd)	205 Tryon Rd (Salvation Army) Entrance				1				RetrofitWarnings
6510	7	SR-2684 (Tryon Rd)	312 Tryon Rd (Calvacorp Ltd) Entrance				1				RetrofitWarnings
6490	8	SR-2684 (Tryon Rd)	Durham Dr	15	9					1	Remove Ramp
6489	8	SR-2684 (Tryon Rd)	Durham Dr					1			Type3Modified
6494	8	SR-2684 (Tryon Rd)	Durham Dr				1				RetrofitWarnings
6491	8	SR-2684 (Tryon Rd)	Durham Dr	15	9					1	Remove Ramp
6497	8	SR-2684 (Tryon Rd)	Durham Dr				1				RetrofitWarnings
6488	9	SR-2684 (Tryon Rd)	Anvil Pl	15	7					1	Remove Ramp
6477	10	SR-2026 (Hammond Rd)	SR-2684 (E Tryon Rd)				1				RetrofitWarnings
6480	10	SR-2026 (Hammond Rd)	SR-2684 (Tryon Rd)	16	9					1	Remove Ramp
6483	10	SR-2026 (Hammond Rd)	SR-2684 (Tryon Rd)				1				RetrofitWarnings
6474	10	SR-2026 (Hammond Rd)	SR-2684 (E Tryon Rd)	16	9					1	Remove Ramp
24208	10	SR-2026 (Hammond Rd)	SR-2684 (Tryon Rd)	14						1	Remove Ramp
24209	10	SR-2026 (Hammond Rd)	SR-2684 (Tryon Rd)	16						1	Remove Ramp
24211	10	SR-2026 (Hammond Rd)	SR-2684 (Tryon Rd)	16						1	Remove Ramp
24210	10	SR-2026 (Hammond Rd)	SR-2684 (Tryon Rd)	16						1	Remove Ramp
6618	11	SR-2684 (E Tryon Rd)	100 E. Tryon Rd (First Citizens Bank) Entrance					1			Type1Modified
6619	11	SR-2684 (E Tryon Rd)	100 E. Tryon Rd (First Citizens Bank) Entrance			1		1			Type1Modified
24206	12	SR-2684 (E Tryon Rd)	100 E. Tryon Rd (First Citizens Bank) Back Entrance					1			Type1Modified
24207	12	SR-2684 (E Tryon Rd)	100 E. Tryon Rd (First Citizens Bank) Back Entrance	11						1	Remove Ramp
24212	13	SR-1004 (Garner Rd)	SR-2684 (E Tryon Rd)	15						1	Remove Ramp
24213	13	SR-1004 (Garner Rd)	SR-2684 (E Tryon Rd)	16						1	Remove Ramp
8910	13	SR-1004 (Garner Rd)	SR-2684 (E Tryon Rd)				1				RetrofitWarnings
8909	13	SR-1004 (Garner Rd)	SR-2684 (E Tryon Rd)	18	9					1	Remove Ramp
Sub-Total for Tryon Rd From SR 1004 To US 70				265	80	1	9	11	6	16	

SUMMARY OF QUANTITIES

Project Number:	2022 West
WBS Number:	2021CPT.05.20.20921.1
County:	Wake

Project Number	County	Municipality	Resurfacing Route	2549000000-E	2591000000-E	2845000000-N	2600000000-N	2613000000-N	2605000000-N	SP1
				2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk SY	Adjustment of Meter Boxes or Valve Boxes EA	Retrofit Existing Curb Ramps EA	Remove and Replace Curb Ramps EA	Concrete Curb Ramps EA	Remove Curb Ramps EA
2022 West	Wake	Outside Municipality	Aviation Pkwy From Gateway Centre Blvd To Dominion Dr / Beg C&G	14	8	0	2	1	2	1
2022 West	Wake	Morrisville	Aviation Pkwy From Dominion Dr / Beg C&G To International Dr / End C&G	27	16	0	3	16	2	2
2022 West	Wake	Morrisville	Aviation Pkwy From International Dr / End C&G To End 2 Lane / Beg C&G	0	0	0	1	1	0	0
2022 West	Wake	Cary	Morrisville Pkwy From / To SR 1613 To / From Pvmt Jt At SR 1617	17	10	0	0	8	0	1
2022 West	Wake	Morrisville	Morrisville Pkwy From / To Pvmt Jt West Of Crabtree Crossing Pkwy To / From SR 1613	70	41	0	2	25	0	4
2022 West	Wake	Apex, Outside Municipality	Reliance Ave From SR 1010 To End Maint	0	0	0	7	2	0	0
2022 West	Wake	Cary	Ederlee Dr / Regency Pkwy From SR 1379 To SR 1009	74	34	0	0	19	0	4
2022 West	Wake	Raleigh	Tryon Rd From SR 1004 To US 70	265	80	1	9	11	6	16
GRAND TOTAL				467	189	1	24	83	10	28

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.20.20921.1	41	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	0264000000-E	1220000000-E	1297000000-E		1308000000-E		1330000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E			
										BORROW	SHOULDER GRADING	INCIDENTAL STONE BASE	1½" MILLING	3" MILLING	0" TO 1.25" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT			
										MI	FT	CY	SMI	TONS	SY	SY	SY	SY	SY	TONS	TONS	TON	TONS	
2021CPT.05.20.20921.1	Wake	1	SR 1002 - AVIATION PKWY	GATEWAY CENTRE BLVD TO DOMINION DR/BEG C&G	5	2	NO	NO	0.58	24-70	59	1.18	30					915		916	55			
		2	SR 1002 - AVIATION PKWY	DOMINION DR/ BEG C&G TO INTERNATIONAL DR/END C&G	4	2	NO	NO	0.79	35-74					28,173				889		2,561	154	10	
		3	SR 1002 - AVIATION PKWY	INTERNATIONAL DR/END C&G TO END 2LANE/BEG C&G	5	2	NO	NO	0.44	35-45	43	0.85	21					67	575		867	52	15	
		4	SR 1145 - RICHARDSON RD	SR 1160 - OLIVE CHAPEL RD TO SR 1142 - HUMIE OLIVE RD	3	2	NO	NO	1.76	20-37	173	3.47	87					129	1,147	2,220		149		
		5	SR 1382 - YATES MILL POND RD	SR 1381 - YATES MILL POND RD TO PVMT JOINT	3	2	NO	NO	1.7	24	193	3.87	97						1,634	2,407		161	20	
		6	SR 1442 - EDWARDS LN	SR 1382 - YATES MILL POND RD TO END MAINTENANCE	2	2	NO	NO	0.18	18	18	0.36	9						60	138		9		
		7	SR 1462 - SINGLETON ST/IRELAN DR	SR 5808 - HILLSBOROUGH ST TO SR 1314 - BASHFORD RD	3	2	NO	NO	0.55	20	50	1.01	23					213	523	628		42	132	
		8	SR 1501 - DONNYBROOK RD	SR 1379 - PENNY RD TO DEAD END	2	2	NO	NO	0.66	20	66	1.32	33						236	583		39	100	
		9	SR 1502 - ALLWOOD DR	SR 1501 - DONNYBROOK RD TO SR 1501 - DONNYBROOK RD	2	2	NO	NO	0.31	18	56	0.62	29						57	242		16	3	
		10	SR 1506 - HESTER DR	SR 1502 - ALLWOOD DR TO DEAD END	2	2	NO	NO	0.25	18	25	0.50	13						63	197		13		
		11	SR 1547 - SWIFT RIDGE RD	SR 1152 - HOLLY SPRINGS RD TO SR 1548 - DEER GARDEN CT	3	2	NO	NO	0.3	20	30	0.60	15						129	324		22	60	
		12	SR 1548 - DEER GARDEN CT	CUL-DE-SAC TO CUL-DE-SAC	3	2	NO	NO	0.1	20	10	0.20	5							150		10	2	
		13	SR 1575 - COUNTRY FOREST RD	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	NO	NO	0.25	20	25	0.50	13						141	323		22	40	
		14	SR 1576 - TIMBERWOOD CT	CUL-DE-SAC TO CUL-DE-SAC	3	2	NO	NO	0.22	20	22	0.44	11							282		19	26	
		15	SR 1599 - BAKERSFIELD DR	SR 1152 - HOLLY SPRINGS RD TO CUL-DE-SAC	3	2	NO	NO	0.21	20	21	0.42	11						130	254		17	13	
		16	SR 1724 - OLD TRINITY CIR	SR 1725 - DEERWOOD PL TO SR 1723 - VERA RD	3	2	NO	NO	0.29	18	29	0.58	15						55	272		18	83	
		17	SR 1725 - DEERWOOD PL	SR 1655 - TRINITY RD TO END MAINT	3	2	NO	NO	0.19	18	19	0.38	10						130	186		12	69	
		18	SR 1732 - BLANCHE DR	SR 1724 - OLD TRINITY CIR TO DEAD END	3	2	NO	NO	0.19	20	19	0.38	10						83	202		14		
		19	SR 1737 - AZALEA DR	SR 1732 - BLANCH DR TO SR 1761 - MULLENS ST	1	2	NO	NO	0.09	20	9	0.18	5						121	66		4		
		20	SR 1761 - MULLENS DR	SR 1737 - AZALEA DR TO END MAINT	1	2	NO	NO	0.09	20	9	0.18	5						65	66		4		
		21	SR 1996 - CAMPBELL WOODS DR	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	NO	NO	0.13	18	13	0.26	7						70	149		10	9	
		22	SR 2684 - TRYON RD	SR 1004 - E GARNER RD TO US 70 - S WILMINGTON ST	4	2	NO	NO	1.36	60-64						50,647				292		4,502	277	540
		23	SR 3060 - MORRISVILLE PKWY	SR 1617 - CARPENTER-UPCHURCH RD TO - PVMT JT WEST OF CRABTREE CROSSING PKWY	6	2	NO	NO	2.73	50-86						95,964				4,175	8,671		581	40

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.20.20921.1	42	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	0264000000-E	1220000000-E	1297000000-E		1308000000-E		1330000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E			
										BORROW	SHOULDER GRADING	INCIDENTAL STONE BASE	1½" MILLING	3" MILLING	0" TO 1.25" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT			
										MI	FT	CY	SMI	TONS	SY	SY	SY	SY	SY	TONS	TONS	TON	TONS	
		24	SR 3909 - EARLE RD	SR 1382 - OLDE SOUTH RD TO SR 1501 - DONNYBROOK RD	2	2	NO	NO	0.7	20	70	1.40	35				308	625		42	111			
		25	SR 3910 - GLEN OAK CT	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	NO	NO	0.09	18	9	0.18	5					95		6				
		26	SR 3911 - BENT FORK CIR	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	NO	NO	0.05	18	5	0.10	3					64		4	5			
		27	SR 3912 - WINDY RIDGE CT	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	NO	NO	0.08	18	8	0.16	4					82		5				
		28	SR 3983 - MILLRACE TRL	SR 1382 - OLDE SOUTH RD TO CUL-DE-SAC	2	2	NO	NO	0.52	18	52	1.04	26			67		220	411		28	12		
		29	SR 3984 - RHETT DR	SR 3983 - MILLRACE TRL TO SR 3983 - MILLRACE TRL	2	2	NO	NO	0.15	18	15	0.30	8					122		8				
		30	SR 4020 - FORDLAND DR	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	NO	NO	0.82	20	82	1.64	41				108	883		59	145			
		31	SR 4033 - KOOMEN LN	SR 1383 - CAMPBELL RD TO DEAD END	3	2	NO	NO	0.17	20	17	0.34	9				83	174		12	6			
		32	SR 4034 - ALLOWAY CT	SR 4033 - KOOMEN LN TO CUL-DE-SAC	3	2	NO	NO	0.1	18	10	0.20	5					144		10	45			
		33	SR 4035 - TOBERMORY LN	SR 4033 - KOOMEN LN TO SR 4036 - SKIPTON CT	3	2	NO	NO	0.23	18	23	0.46	12					219		15	5			
		34	SR 4036 - SKIPTON CT	SR 4035 - TOBERMORY LN TO CUL-DE-SAC	3	2	NO	NO	0.04	18	4	0.08	2					65		4				
		35	SR 4061 - ENCHANTED OAKS DR	SR 4063 - BLUE SAGE DR TO SR 1371 - LAKE WHEELER RD	3	2	NO	NO	0.54	20	53	1.07	27				32	118	574		38	101		
		36	SR 4062 - PAPER BIRCH CT	SR 4063 - BLUE SAGE DR TO CUL-DE-SAC	3	2	NO	NO	0.14	20	14	0.28	7					178		12	28			
		37	SR 4063 - BLUE SAGE DR	SR 3988 - BIRCHLEAF DR TO CUL-DE-SAC	3	2	NO	NO	0.56	20	56	1.12	28				177	618		41	4			
		38	SR 4064 - BLACK WALNUT CT	SR 4063 - BLUE SAGE DR TO CUL-DE-SAC	3	2	NO	NO	0.12	20	12	0.24	6					158		11				
		39	SR 4067 - EDERLEE DR/REGENCY PKWY	SR 1379 - PENNY RD TO SR 1009 - TRYON RD	6	2	NO	NO	1.75	50-66				60,883			1,686	5,462		366	19			
		40	SR 4070 - RELIANCE AVE	SR 1010 - TEN TEN RD TO END MAINT	7	2	NO	NO	0.25	30-45	25	0.50	13				1,400	1,073		72				
		41	SR 4094 - BLANEY BLUFFS LN	SR 1379 - PENNY RD TO SR 1377 - BLNY FRANKS R	3	2	NO	NO	0.61	20	61	1.22	31				364	655		44	25			
		42	SR 4095 - DARCY LN	SR 4094 - BLNY BLUFFS TO SR 4094 - BLNY BLUFFS	2	2	NO	NO	0.25	18	25	0.50	13				205	199		13	18			
		43	SR 4097 - MOSS POINTE LN	SR 4061 - ENCHANTED OAKS DR TO CUL-DE-SAC	3	2	NO	NO	0.08	18	8	0.16	4					105		7				
		44	SR 4098 - HONEY LOCUST CT	SR 4061 - ENCHANTED OAKS TO CUL-DE-SAC	3	2	NO	NO	0.11	18	11	0.22	6					132		9	25			
		45	SR 4783 - OAK STAND CIR	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	NO	NO	0.1	20	10	0.20	5					114		8				
		46	SR 5040 - ROLLING OAKS LN	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	NO	NO	0.11	20	11	0.22	0				225	159		11	2			
		TOTAL FOR PROJ NO. 2021CPT.05.20.20921.1									20.9		1,470	28.93	739	235,667	4,793	67	441	16,384	29,671	8,846	2,525	1,713
		GRAND TOTAL									20.9		1,470	28.93	739	235,667	4,793	67	441	16,384	29,671	8,846	2,525	1,713

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.20.20921.1	43	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	2549000000-E	2591000000-E	2600000000-N	2605000000-N	2613000000-N	2759000000-N	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	6117000000-N	7444000000-E		
										2'-6" CURB & GUTTER	4" CONCRETE SIDEWALK	RETROFIT EXISTING CURB RAMP	CONCRETE CURB RAMP	REMOVE AND REPLACE CURB RAMPS	REMOVE CURB RAMPS	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	INDUCTIVE LOOP SAWCUT		
										MI	FT	LF	SY	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
2021CPT.05.20.20921.1	Wake	1	SR 1002 - AVIATION PKWY	GATEWAY CENTRE BLVD TO DOMINION DR/BEG C&G	5	2	NO	NO	0.58	24-70	14	8	2	2	1	1			86	220	0.86		620	
		2	SR 1002 - AVIATION PKWY	DOMINION DR/ BEG C&G TO INTERNATIONAL DR/END C&G	4	2	NO	NO	0.79	35-74	27	16	3	2	16	2	2							876
		3	SR 1002 - AVIATION PKWY	INTERNATIONAL DR/END C&G TO END 2LANE/BEG C&G	5	2	NO	NO	0.44	35-45			1		1		3			62	160	0.62		320
		4	SR 1145 - RICHARDSON RD	SR 1160 - OLIVE CHAPEL RD TO SR 1142 - HUMIE OLIVE RD	3	2	NO	NO	1.76	20-37										252	640	3.00	1	
		5	SR 1382 - YATES MILL POND RD	SR 1381 - YATES MILL POND RD TO PVMT JOINT	3	2	NO	NO	1.7	24										281	710	2.81	1	
		6	SR 1442 - EDWARDS LN	SR 1382 - YATES MILL POND RD TO END MAINTENANCE	2	2	NO	NO	0.18	18										26	70	0.26		
		7	SR 1462 - SINGLETON ST/IRELAN DR	SR 5808 - HILLSBOROUGH ST TO SR 1314 - BASHFORD RD	3	2	NO	NO	0.55	20										73	190	0.73		
		8	SR 1501 - DONNYBROOK RD	SR 1379 - PENNY RD TO DEAD END	2	2	NO	NO	0.66	20										96	240	0.96		
		9	SR 1502 - ALLWOOD DR	SR 1501 - DONNYBROOK RD TO SR 1501 - DONNYBROOK RD	2	2	NO	NO	0.31	18										81	120	0.81		
		10	SR 1506 - HESTER DR	SR 1502 - ALLWOOD DR TO DEAD END	2	2	NO	NO	0.25	18										36	100	0.36		
		11	SR 1547 - SWIFT RIDGE RD	SR 1152 - HOLLY SPRINGS RD TO SR 1548 - DEER GARDEN CT	3	2	NO	NO	0.3	20										44	110	0.44		
		12	SR 1548 - DEER GARDEN CT	CUL-DE-SAC TO CUL-DE-SAC	3	2	NO	NO	0.1	20										15	40	0.15		
		13	SR 1575 - COUNTRY FOREST RD	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	NO	NO	0.25	20										36	100	0.36		
		14	SR 1576 - TIMBERWOOD CT	CUL-DE-SAC TO CUL-DE-SAC	3	2	NO	NO	0.22	20										32	80	0.32		
		15	SR 1599 - BAKERSFIELD DR	SR 1152 - HOLLY SPRINGS RD TO CUL-DE-SAC	3	2	NO	NO	0.21	20										31	80	0.31		
		16	SR 1724 - OLD TRINITY CIR	SR 1725 - DEERWOOD PL TO SR 1723 - VERA RD	3	2	NO	NO	0.29	18										42	110	0.42		
		17	SR 1725 - DEERWOOD PL	SR 1655 - TRINITY RD TO END MAINT	3	2	NO	NO	0.19	18										28	70	0.28		
		18	SR 1732 - BLANCHE DR	SR 1724 - OLD TRINITY CIR TO DEAD END	3	2	NO	NO	0.19	20									1	28	70	0.28		
		19	SR 1737 - AZALEA DR	SR 1732 - BLANCH DR TO SR 1761 - MULLENS ST	1	2	NO	NO	0.09	20										13	40	0.13		
		20	SR 1761 - MULLENS DR	SR 1737 - AZALEA DR TO END MAINT	1	2	NO	NO	0.09	20										13	40	0.13		
		21	SR 1996 - CAMPBELL WOODS DR	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	NO	NO	0.13	18										19	50	0.19		
		22	SR 2684 - TRYON RD	SR 1004 - E GARNER RD TO US 70 - S WILMINGTON ST	4	2	NO	NO	1.36	60-64	265	80	9	6	11	16		1					1	676
		23	SR 3060 - MORRISVILLE PKWY	SR 1617 - CARPENTER-UPCHURCH RD TO - PVMT JT WEST OF CRABTREE CROSSING PKWY	6	2	NO	NO	2.73	50-86	87	51	2			33	5						1	1,702

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.20.20921.1	44	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	2549000000-E	2591000000-E	2600000000-N	2605000000-N	2613000000-N	2759000000-N	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	6117000000-N	7444000000-E
										2'-6" CURB & GUTTER	4" CONCRETE SIDEWALK	RETROFIT EXISTING CURB RAMP	CONCRETE CURB RAMP	REMOVE AND REPLACE CURB RAMPS	REMOVE CURB RAMPS	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	INDUCTIVE LOOP SAWCUT
										LF	SY	EA	EA	EA	EA	EA	EA	LF	LF	AC	EA	LF
		SR 3909 - EARLE RD	SR 1382 - OLDE SOUTH RD TO SR 1501 - DONNYBROOK RD	2	2	NO	NO	0.7	20									102	260	1.02		
		SR 3910 - GLEN OAK CT	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	NO	NO	0.09	18									13	40	0.13		
		SR 3911 - BENT FORK CIR	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	NO	NO	0.05	18									7	20	0.07		
		SR 3912 - WINDY RIDGE CT	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	NO	NO	0.08	18									12	30	0.12		
		SR 3983 - MILLRACE TRL	SR 1382 - OLDE SOUTH RD TO CUL-DE-SAC	2	2	NO	NO	0.52	18							2	1	76	190	0.76		
		SR 3984 - RHETT DR	SR 3983 - MILLRACE TRL TO SR 3983 - MILLRACE TRL	2	2	NO	NO	0.15	18									22	60	0.22		
		SR 4020 - FORDLAND DR	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	NO	NO	0.82	20									119	300	1.19		
		SR 4033 - KOOMEN LN	SR 1383 - CAMPBELL RD TO DEAD END	3	2	NO	NO	0.17	20									25	70	0.25		
		SR 4034 - ALLOWAY CT	SR 4033 - KOOMEN LN TO CUL-DE-SAC	3	2	NO	NO	0.1	18									15	40	0.15		
		SR 4035 - TOBERMORY LN	SR 4033 - KOOMEN LN TO SR 4036 - SKIPTON CT	3	2	NO	NO	0.23	18									33	90	0.33		
		SR 4036 - SKIPTON CT	SR 4035 - TOBERMORY LN TO CUL-DE-SAC	3	2	NO	NO	0.04	18									6	20	0.06		
		SR 4061 - ENCHANTED OAKS DR	SR 4063 - BLUE SAGE DR TO SR 1371 - LAKE WHEELER RD	3	2	NO	NO	0.54	20									78	200	0.78		
		SR 4062 - PAPER BIRCH CT	SR 4063 - BLUE SAGE DR TO CUL-DE-SAC	3	2	NO	NO	0.14	20									20	20	0.20		
		SR 4063 - BLUE SAGE DR	SR 3988 - BIRCHLEAF DR TO CUL-DE-SAC	3	2	NO	NO	0.56	20									81	210	56.81		
		SR 4064 - BLACK WALNUT CT	SR 4063 - BLUE SAGE DR TO CUL-DE-SAC	3	2	NO	NO	0.12	20									17	17	0.17		
		SR 4067 - EDERLEE DR/REGENCY PKWY	SR 1379 - PENNY RD TO SR 1009 - TRYON RD	6	2	NO	NO	1.75	50-66	74	34			19	4						1	1,642
		SR 4070 - RELIANCE AVE	SR 1010 - TEN TEN RD TO END MAINT	7	2	NO	NO	0.25	30-45			7		2			2	36	100	0.36		
		SR 4094 - BLANEY BLUFFS LN	SR 1379 - PENNY RD TO SR 1377 - BLNY FRANKS R	3	2	NO	NO	0.61	20									89	230	0.89		
		SR 4095 - DARCY LN	SR 4094 - BLNY BLUFFS TO SR 4094 - BLNY BLUFFS	2	2	NO	NO	0.25	18									36	100	0.36		
		SR 4097 - MOSS POINTE LN	SR 4061 - ENCHANTED OAKS DR TO CUL-DE-SAC	3	2	NO	NO	0.08	18									12	30	0.12		
		SR 4098 - HONEY LOCUST CT	SR 4061 - ENCHANTED OAKS TO CUL-DE-SAC	3	2	NO	NO	0.11	18									16	40	0.16		
		SR 4783 - OAK STAND CIR	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	NO	NO	0.1	20									15	40	0.15		
		SR 5040 - ROLLING OAKS LN	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	NO	NO	0.11	20									16	40	0.16		
		TOTAL FOR PROJ NO. 2021CPT.05.20.20921.1						20.9		467	189	24	10	83	28	7	5	2,140	5,387	77.88	5	5,836
		GRAND TOTAL						20.9		467	189	24	10	83	28	7	5	2,140	5,387	77.88	5	5,836

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Wake

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.20.20921.1	45	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	441300000-E	445700000-N	444700000-E	451000000-N	460000000-N	460000000-N	468500000-E		469500000-E		470000000-E	472000000-E			472500000-E									
									WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	PEDESTRIAN CHANNELIZING DEVICES	LAW ENFORCEMENT	PEDESTRIAN TRANSPORT SERVICE	AUDIBLE WARNING DEVICE	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	8" X 90 M YELLOW THERMO	12" X 90 M YELLOW THERMO	THERMO MSG ONLY 90 M	THERMO MSG SCHOOL 90 M	THERMO Msg RxR 90 M	THERMO STR ARROW 90 M	THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO MERGE ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & LT ARROW 90 M	THERMO SYMBOL (SHARROW)			
									SF	LS	LF	HR	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		
		1	SR 1002 - AVIATION PKWY	GATEWAY CENTRE BLVD TO DOMINION DR/BEG C&G	5	2	0.6	24-70	66							6,491	7,674	230		190				4	2	2						
		2	SR 1002 - AVIATION PKWY	DOMINION DR/ BEG C&G TO INTERNATIONAL DR/END C&G	4	2	0.8	35-74	88							5,760	12,220	1,260		265	12			12	18	2	3	11				
		3	SR 1002 - AVIATION PKWY	INTERNATIONAL DR/END C&G TO END 2LANE/BEG C&G	5	2	0.4	35-45	49							1,500	7,274	200		450			4	7								
		4	SR 1145 - RICHARDSON RD	SR 1160 - OLIVE CHAPEL RD TO SR 1142 - HUMIE OLIVE RD	3	2	1.8	20-37	126							18,938	18,586															
		5	SR 1382 - YATES MILL POND RD	SR 1381 - YATES MILL POND RD TO PVMT JOINT	3	2	1.7	24	217							20,591	22,408	160		330		18			4							
		6	SR 1442 - EDWARDS LN	SR 1382 - YATES MILL POND RD TO END MAINTENANCE	2	2	0.2	18	20																							
		7	SR 1462 - SINGLETON ST/IRELAN DR	SR 5808 - HILLSBOROUGH ST TO SR 1314 - BASHFORD RD	3	2	0.6	20	62																							
		8	SR 1501 - DONNYBROOK RD	SR 1379 - PENNY RD TO DEAD END	2	2	0.7	20	74																							
		9	SR 1502 - ALLWOOD DR	SR 1501 - DONNYBROOK RD TO SR 1501 - DONNYBROOK RD	2	2	0.3	18	36																							
		10	SR 1506 - HESTER DR	SR 1502 - ALLWOOD DR TO DEAD END	2	2	0.3	18	28																							
		11	SR 1547 - SWIFT RIDGE RD	SR 1152 - HOLLY SPRINGS RD TO SR 1548 - DEER GARDEN CT	3	2	0.3	20	34																							
		12	SR 1548 - DEER GARDEN CT	CUL-DE-SAC TO CUL-DE-SAC	3	2	0.1	20	11																							
		13	SR 1575 - COUNTRY FOREST RD	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	0.3	20	28																							
		14	SR 1576 - TIMBERWOOD CT	CUL-DE-SAC TO CUL-DE-SAC	3	2	0.2	20	25																							
		15	SR 1599 - BAKERSFIELD DR	SR 1152 - HOLLY SPRINGS RD TO CUL-DE-SAC	3	2	0.2	20	24																							
		16	SR 1724 - OLD TRINITY CIR	SR 1725 - DEERWOOD PL TO SR 1723 - VERA RD	3	2	0.3	18	32																							
		17	SR 1725 - DEERWOOD PL	SR 1655 - TRINITY RD TO END MAINT	3	2	0.2	18	21																							
		18	SR 1732 - BLANCHE DR	SR 1724 - OLD TRINITY CIR TO DEAD END	3	2	0.2	20	21																							
		19	SR 1737 - AZALEA DR	SR 1732 - BLANCH DR TO SR 1761 - MULLENS ST	1	2	0.1	20	10																							
		20	SR 1761 - MULLENS DR	SR 1737 - AZALEA DR TO END MAINT	1	2	0.1	20	10																							
		21	SR 1996 - CAMPBELL WOODS DR	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	0.1	18	15																							
		22	SR 2684 - TRYON RD	SR 1004 - E GARNER RD TO US 70 - S WILMINGTON ST	4	2	1.4	60-64	152							5,710	17,953							8	52	6		2				
		23	SR 3060 - MORRISVILLE PKWY	SR 1617 - CARPENTER-UPCHURCH RD TO - PVMT JT WEST OF CRABTREE CROSSING PKWY	6	2	2.7	50-86	306							9,250		4,384						8	24	4	47	51	25		9	3

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PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.20.20921.1	47	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4770000000-E		4810000000-E		4820000000-E		4825000000-E	4835000000-E	4840000000-N		4845000000-N				4850000000-E	4891000000-E	
									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" YELLOW PAINT	24" WHITE PAINT	PAINT MSG ONLY	PAINT MSG SCHOOL	PAINT LT ARROW	PAINT STR ARROW	PAINT RT ARROW	PAINT STR & RT ARROW	PAINT STR & LT ARROW	4" LINE REMOVAL	24" X 90 M WHITE THERMO
									LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
		1	SR 1002 - AVIATION PKWY	GATEWAY CENTRE BLVD TO DOMINION DR/BEG C&G	5	2	0.6	24-70			6,491	7,674	230		190	150			2	4		2			150
		2	SR 1002 - AVIATION PKWY	DOMINION DR/ BEG C&G TO INTERNATIONAL DR/END C&G	4	2	0.8	35-74			5,760	12,220	1,260		265	571	12		18	12	11	2			570
		3	SR 1002 - AVIATION PKWY	INTERNATIONAL DR/END C&G TO END 2LANE/BEG C&G	5	2	0.4	35-45			1,500	7,274	200		450	86			7	4					86
		4	SR 1145 - RICHARDSON RD	SR 1160 - OLIVE CHAPEL RD TO SR 1142 - HUMIE OLIVE RD	3	2	1.8	20-37																	95
		5	SR 1382 - YATES MILL POND RD	SR 1381 - YATES MILL POND RD TO PVMT JOINT	3	2	1.7	24																	144
		6	SR 1442 - EDWARDS LN	SR 1382 - YATES MILL POND RD TO END MAINTENANCE	2	2	0.2	18																	
		7	SR 1462 - SINGLETON ST/IRELAN DR	SR 5808 - HILLSBOROUGH ST TO SR 1314 - BASHFORD RD	3	2	0.6	20																	
		8	SR 1501 - DONNYBROOK RD	SR 1379 - PENNY RD TO DEAD END	2	2	0.7	20																	
		9	SR 1502 - ALLWOOD DR	SR 1501 - DONNYBROOK RD TO SR 1501 - DONNYBROOK RD	2	2	0.3	18																	
		10	SR 1506 - HESTER DR	SR 1502 - ALLWOOD DR TO DEAD END	2	2	0.3	18																	
		11	SR 1547 - SWIFT RIDGE RD	SR 1152 - HOLLY SPRINGS RD TO SR 1548 - DEER GARDEN CT	3	2	0.3	20																	
		12	SR 1548 - DEER GARDEN CT	CUL-DE-SAC TO CUL-DE-SAC	3	2	0.1	20																	
		13	SR 1575 - COUNTRY FOREST RD	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	0.3	20																	
		14	SR 1576 - TIMBERWOOD CT	CUL-DE-SAC TO CUL-DE-SAC	3	2	0.2	20																	
		15	SR 1599 - BAKERSFIELD DR	SR 1152 - HOLLY SPRINGS RD TO CUL-DE-SAC	3	2	0.2	20																	
		16	SR 1724 - OLD TRINITY CIR	SR 1725 - DEERWOOD PL TO SR 1723 - VERA RD	3	2	0.3	18																	
		17	SR 1725 - DEERWOOD PL	SR 1655 - TRINITY RD TO END MAINT	3	2	0.2	18																	
		18	SR 1732 - BLANCHE DR	SR 1724 - OLD TRINITY CIR TO DEAD END	3	2	0.2	20																	
		19	SR 1737 - AZALEA DR	SR 1732 - BLANCH DR TO SR 1761 - MULLENS ST	1	2	0.1	20																	
		20	SR 1761 - MULLENS DR	SR 1737 - AZALEA DR TO END MAINT	1	2	0.1	20																	
		21	SR 1996 - CAMPBELL WOODS DR	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	0.1	18																	
		22	SR 2684 - TRYON RD	SR 1004 - E GARNER RD TO US 70 - S WILMINGTON ST	4	2	1.4	60-64	450	500	6,160	18,453				210			52	8	2	6		950	210
		23	SR 3060 - MORRISVILLE PKWY	SR 1617 - CARPENTER-UPCHURCH RD TO - PVMT JT WEST OF CRABTREE CROSSING PKWY	6	2	2.7	50-86	538	430	9,250		4,384			6,790	8	24	51	47	9	25	3	968	4,200

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Wake

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.05.20.20921.1	48	

THERMOPLASTIC AND PAINT QUANTITIES

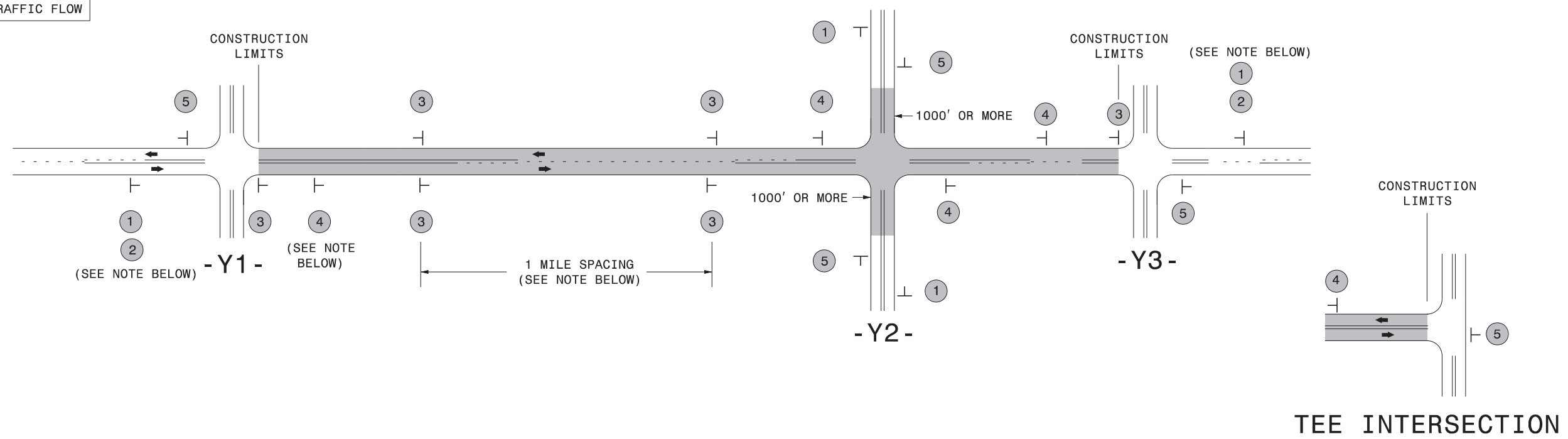
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4770000000-E		4810000000-E		4820000000-E		4825000000-E	4835000000-E	4840000000-N		4845000000-N			4850000000-E	4891000000-E		
									4" WHITE COLD APPLIED PLASTIC, TYPE II	4" YELLOW COLD APPLIED PLASTIC, TYPE II	4" WHITE PAINT	4" YELLOW PAINT	8" WHITE PAINT	8" YELLOW PAINT	12" YELLOW PAINT	24" WHITE PAINT	PAINT MSG ONLY	PAINT MSG SCHOOL	PAINT LT ARROW	PAINT STR ARROW	PAINT RT ARROW	PAINT STR & RT ARROW	PAINT STR & RT LT ARROW	4" LINE REMOVAL	24" X 90 M WHITE THERMO
									LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
		24	SR 3909 - EARLE RD	SR 1382 - OLDE SOUTH RD TO SR 1501 - DONNYBROOK RD	2	2	0.7	20																	
		25	SR 3910 - GLEN OAK CT	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	0.1	18																	
		26	SR 3911 - BENT FORK CIR	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	0.1	18																	
		27	SR 3912 - WINDY RIDGE CT	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	0.1	18																	
		28	SR 3983 - MILLRACE TRL	SR 1382 - OLDE SOUTH RD TO CUL-DE-SAC	2	2	0.5	18																	
		29	SR 3984 - RHETT DR	SR 3983 - MILLRACE TRL TO SR 3983 - MILLRACE TRL	2	2	0.2	18																	
		30	SR 4020 - FORDLAND DR	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	0.8	20																	
		31	SR 4033 - KOOMEN LN	SR 1383 - CAMPBELL RD TO DEAD END	3	2	0.2	20																	
		32	SR 4034 - ALLOWAY CT	SR 4033 - KOOMEN LN TO CUL-DE-SAC	3	2	0.1	18																	
		33	SR 4035 - TOBERMORY LN	SR 4033 - KOOMEN LN TO SR 4036 - SKIPTON CT	3	2	0.2	18																	
		34	SR 4036 - SKIPTON CT	SR 4035 - TOBERMORY LN TO CUL-DE-SAC	3	2	0	18																	
		35	SR 4061 - ENCHANTED OAKS DR	SR 4063 - BLUE SAGE DR TO SR 1371 - LAKE WHEELER RD	3	2	0.5	20																	
		36	SR 4062 - PAPER BIRCH CT	SR 4063 - BLUE SAGE DR TO CUL-DE-SAC	3	2	0.1	20																	
		37	SR 4063 - BLUE SAGE DR	SR 3988 - BIRCHLEAF DR TO CUL-DE-SAC	3	2	0.6	20																	
		38	SR 4064 - BLACK WALNUT CT	SR 4063 - BLUE SAGE DR TO CUL-DE-SAC	3	2	0.1	20																	
		39	SR 4067 - EDERLEE DR/REGENCY PKWY	SR 1379 - PENNY RD TO SR 1009 - TRYON RD	6	2	1.8	50-66			8,309	5,300	823	201		319	28		20	55	9	14		319	
		40	SR 4070 - RELIANCE AVE	SR 1010 - TEN TEN RD TO END MAINT	7	2	0.3	30-45			100	400				50			1			1		50	
		41	SR 4094 - BLANEY BLUFFS LN	SR 1379 - PENNY RD TO SR 1377 - BLNY FRANKS R	3	2	0.6	20																	
		42	SR 4095 - DARCY LN	SR 4094 - BLNY BLUFFS TO SR 4094 - BLNY BLUFFS	2	2	0.3	18																	
		43	SR 4097 - MOSS POINTE LN	SR 4061 - ENCHANTED OAKS DR TO CUL-DE-SAC	3	2	0.1	18																	
		44	SR 4098 - HONEY LOCUST CT	SR 4061 - ENCHANTED OAKS TO CUL-DE-SAC	3	2	0.1	18																	
		45	SR 4783 - OAK STAND CIR	SR 3909 - EARLE RD TO CUL-DE-SAC	2	2	0.1	20																	
		46	SR 5040 - ROLLING OAKS LN	SR 1383 - CAMPBELL RD TO CUL-DE-SAC	3	2	0.1	20																	
TOTAL FOR PROJ NO. 2021CPT.05.20.20921.1																									
									988	930	37,570	51,321	6,897	201	905	8,176	48	24	151	130	31	50	3	1,918	5,824
									1,918		88,891		7,098				72		365						
GRAND TOTAL									988	930	37,570	51,321	6,897	201	905	8,176	48	24	151	130	31	50	3	1,918	5,824
									1,918		88,891		7,098				72		365						

SIGNING FOR RESURFACING PROJECTS

LEGEND

┆ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

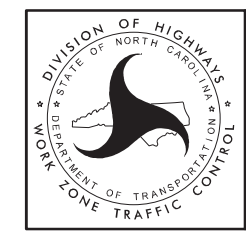
-Y- LINE SIGNING

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"> 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;"> 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	 NEXT XX MILES 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	 LOW/SOFT SHOULDER SP 13107 48" X 48"	<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. 	
	4	 ROAD UNDER CONST SP 13106 48" X 48"	<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. 	
	5	 END ROAD WORK G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

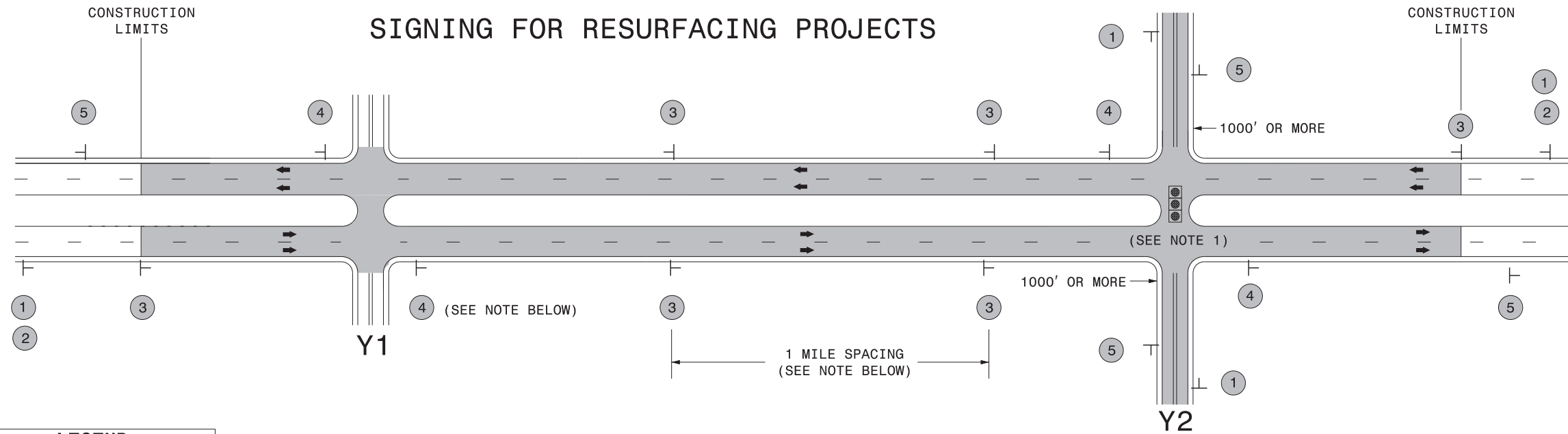
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

MAPS LESS THAN 2 MILES

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



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

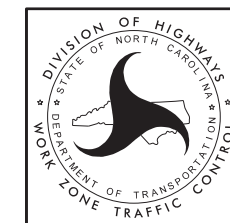


LEGEND	
—	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

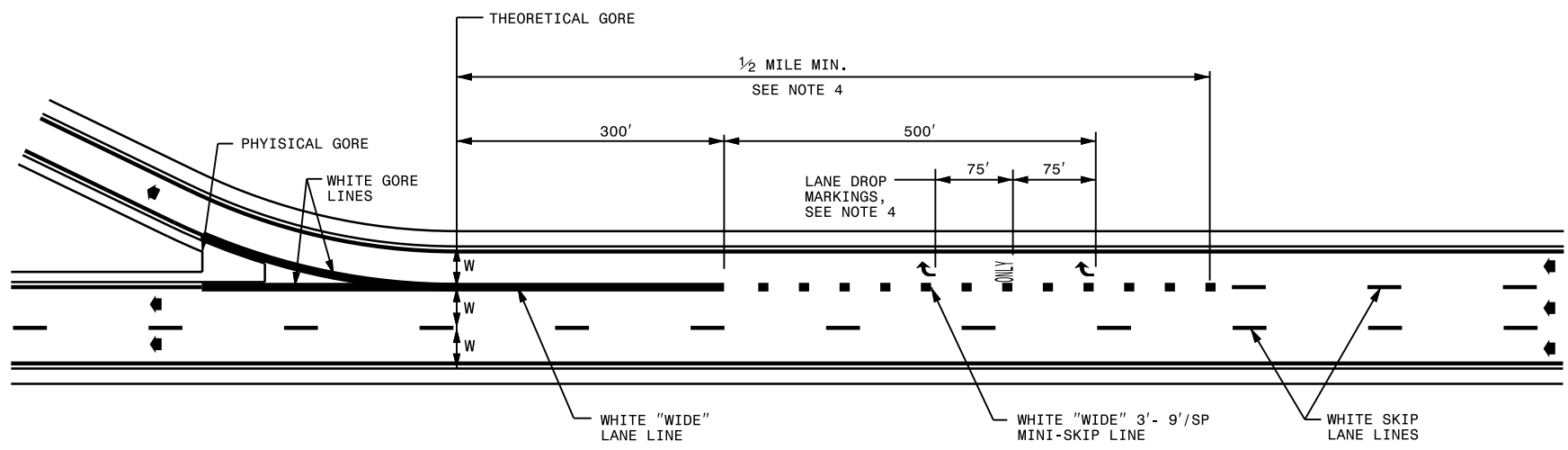
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

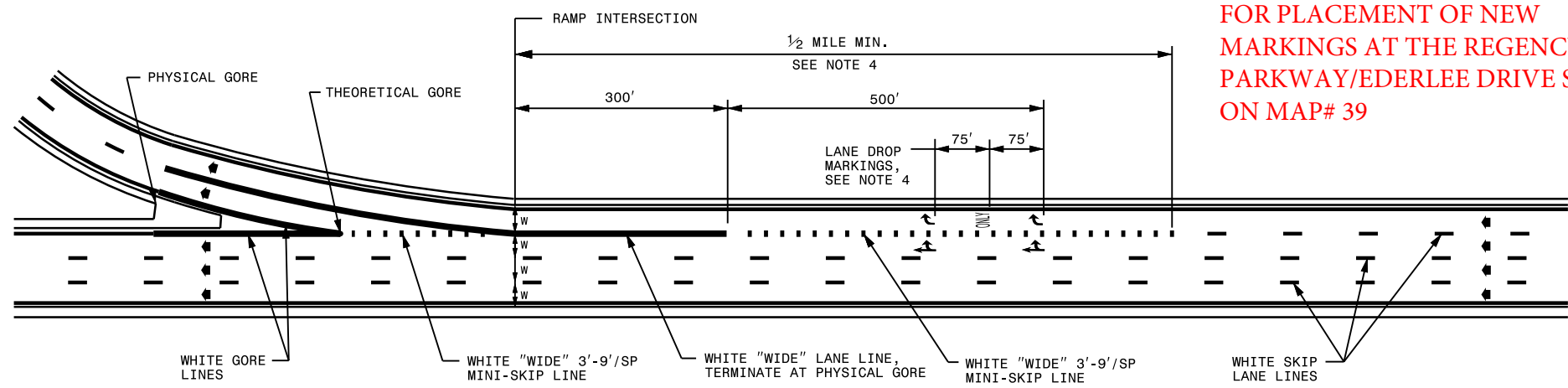
SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 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, 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;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3	 SP 13107 48" X 48"	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 SP 13106 48" X 48"	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	
5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		
NOTES:			<ol style="list-style-type: none"> 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION. 	



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



LANE DROP AT A MULTI-LANE EXIT RAMP



USE THIS STANDARD AS A GUIDE FOR PLACEMENT OF NEW MARKINGS AT THE REGENCY PARKWAY/EDERLEE DRIVE SPLIT ON MAP# 39

GENERAL NOTES:

- 1- USE THE GUIDANCE SHOWN ON THE FOLLOWING DETAILS IN CONJUNCTION WITH THE RAMP GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.03.
- 2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 4- MINI-SKIPS MAY BE EXTENDED TO COINCIDE WITH THE LANE DROP ADVANCE ONE MILE GUIDE SIGN AS DIRECTED BY THE ENGINEER. IF MARKINGS ARE EXTENDED, ADDITIONAL LANE DROP MARKINGS MAY BE INSTALLED.

LEGEND	
W	= WIDTH OF TRAVEL LANE
➔	DIRECTION OF TRAFFIC FLOW
↪ ONLY	PAVEMENT MARKING SYMBOLS & CHARACTERS

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

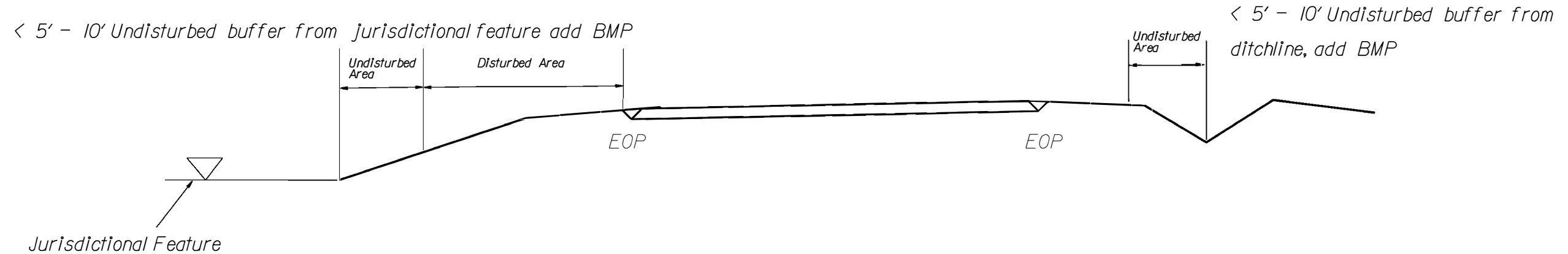
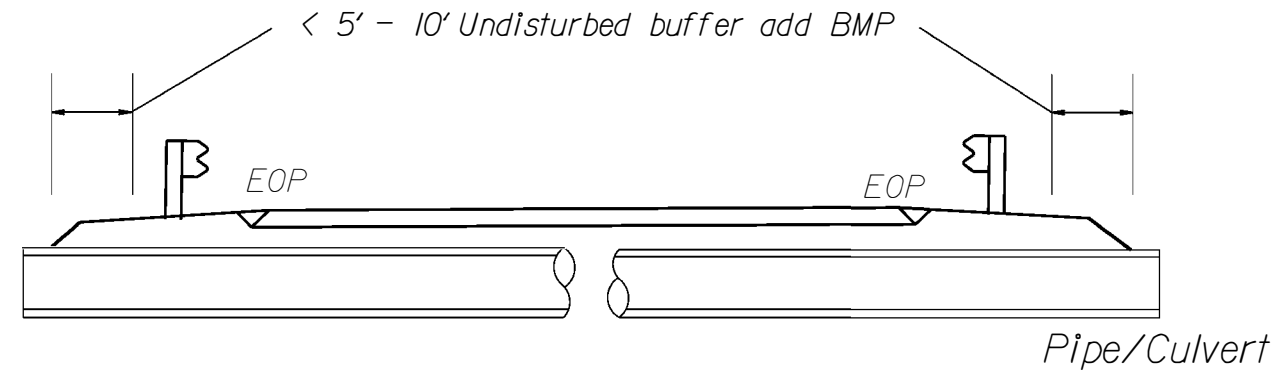
SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

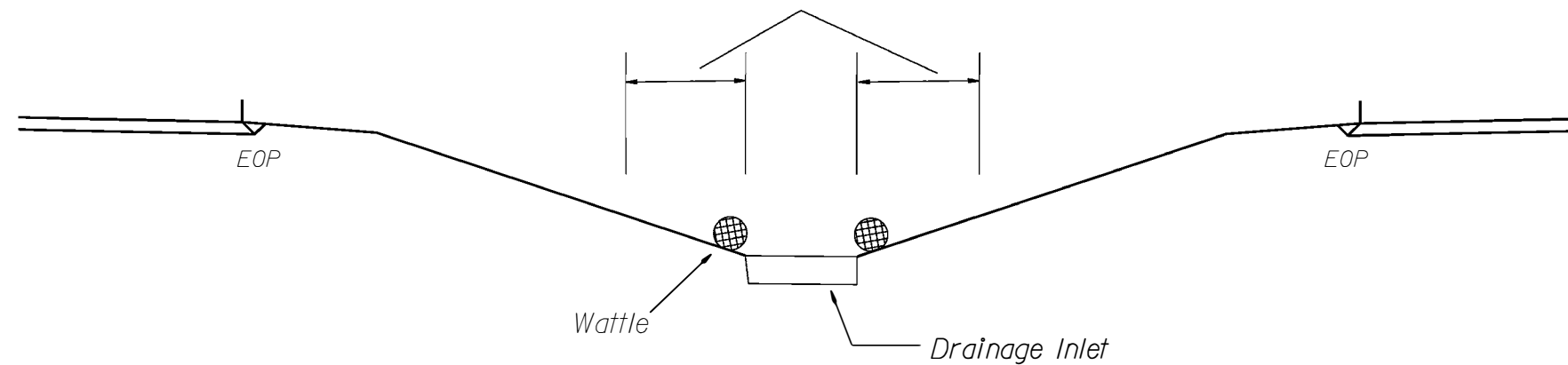
EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

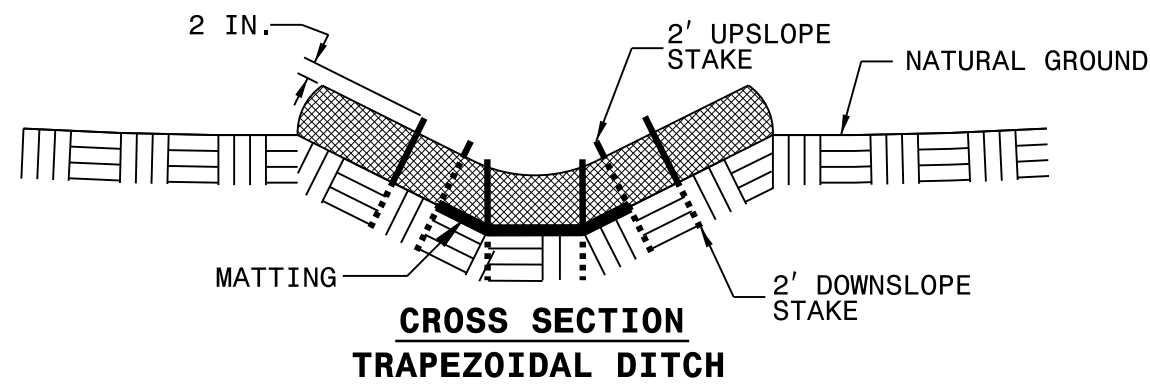
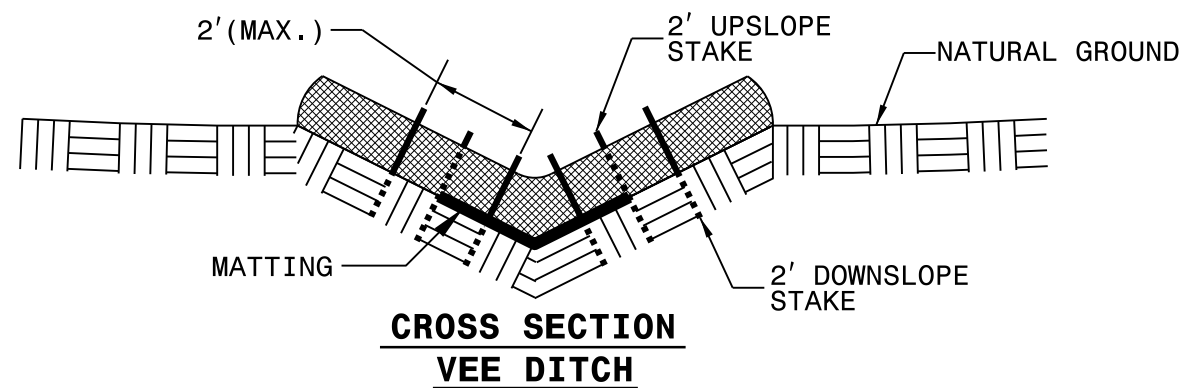
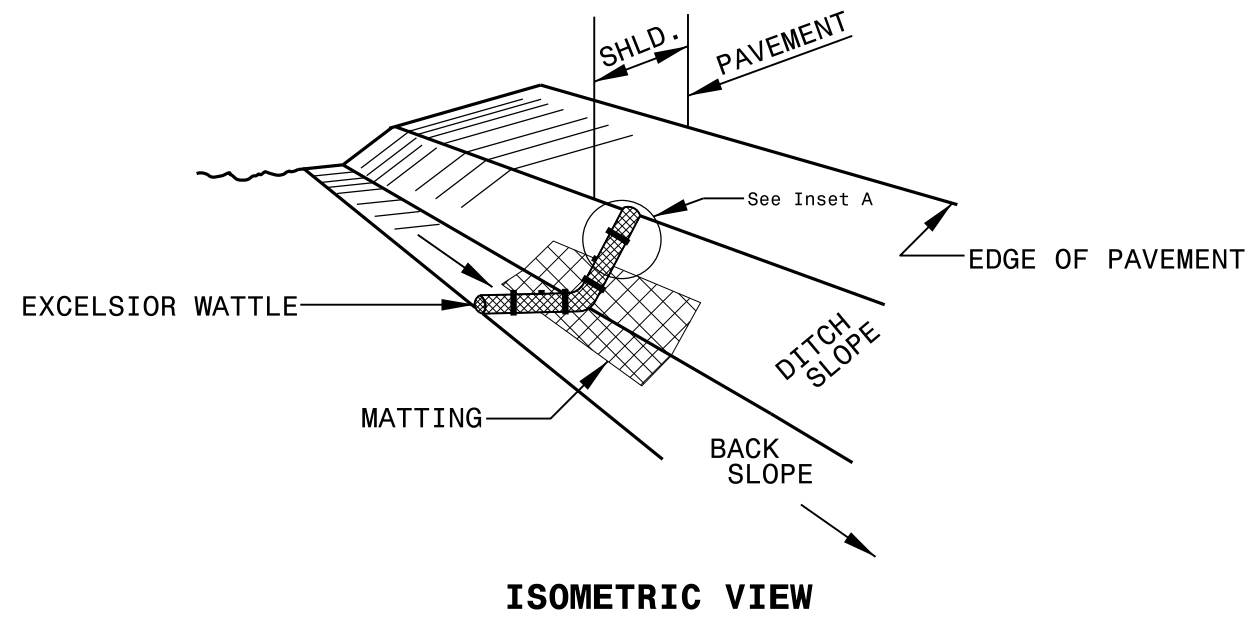


< 5' - 10' Undisturbed buffer from inlet, add wattle

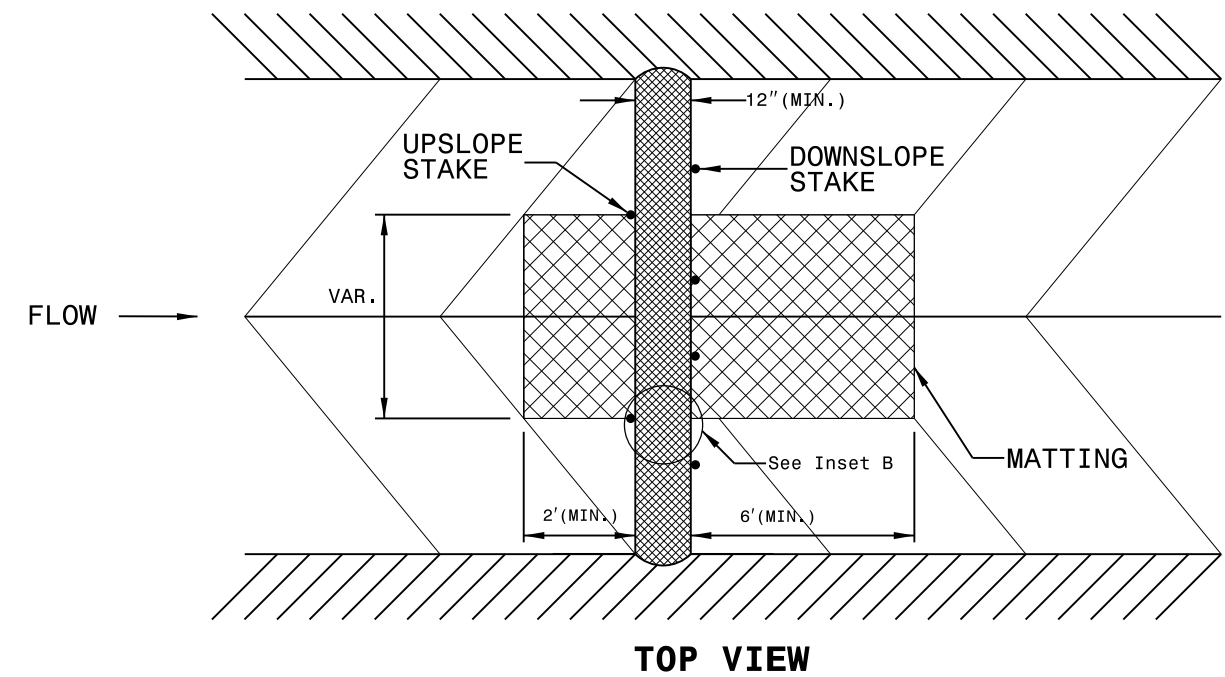
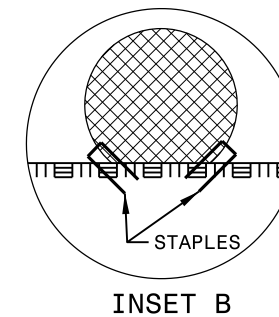
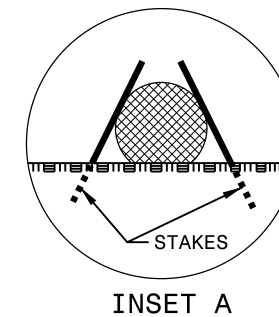


NOT TO SCALE

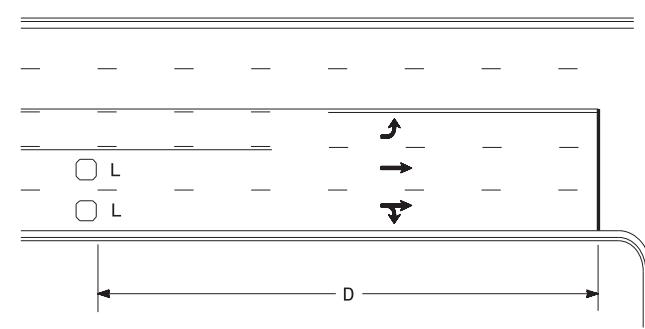
WATTLE DETAIL



- NOTES:**
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



High Speed Detection (≥40 mph)

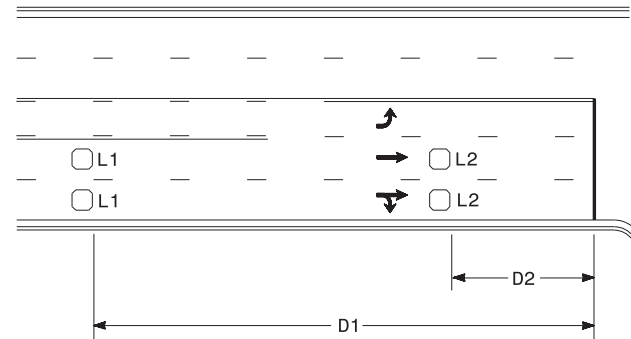


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR

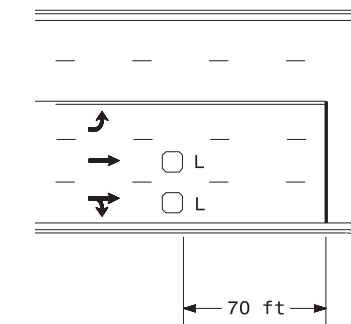


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

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

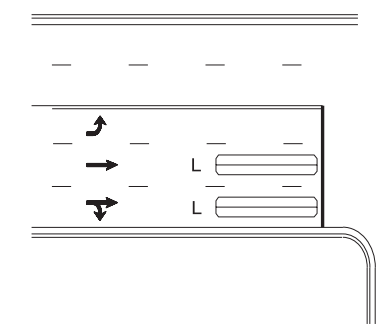
"Stretch" Operation

Low Speed Detection (≤35 mph)



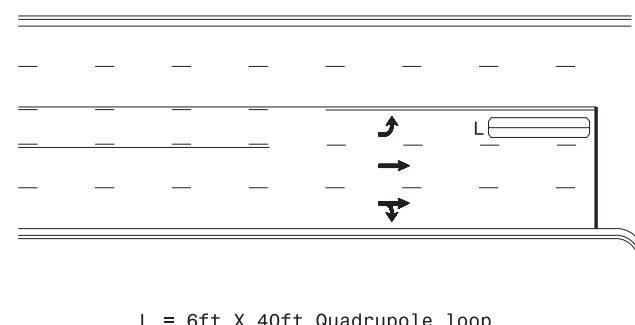
L = 6ft X 6ft
Wired in series

OR



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

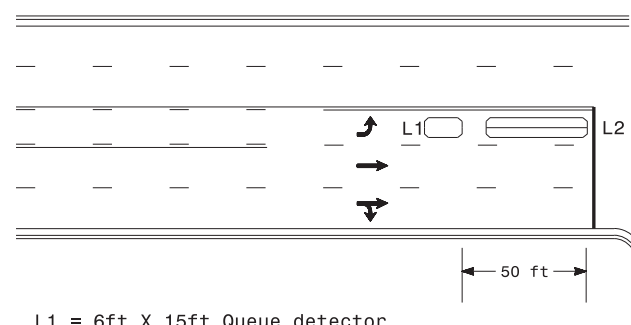
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

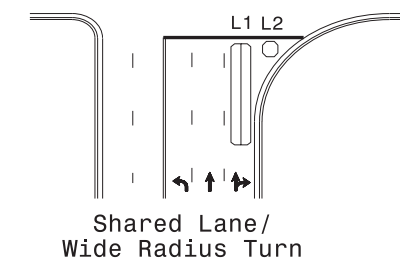
OR



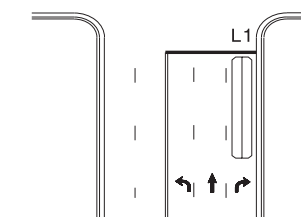
L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection

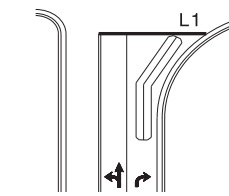
Right Turn Lane Detection



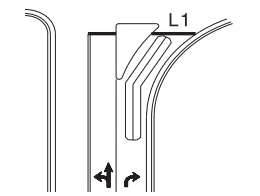
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

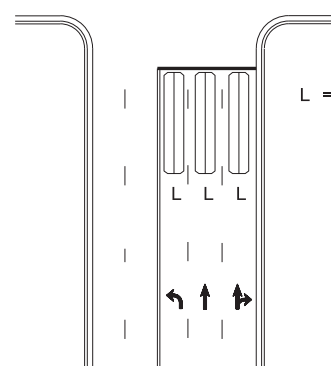


Wide Radius Turn



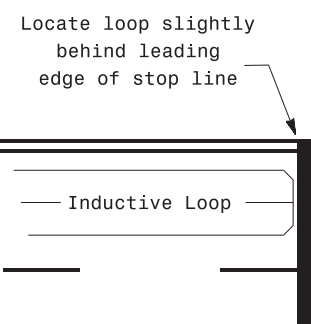
Channelized Turn

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

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.