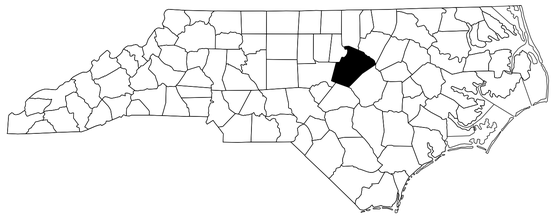
07/17/2019

CONTRACT: DE0324 TIP PROJECT: R-5785I

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5785I	1	26

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44915.1.1		PE
44915.3.15	TAP-0505(108)	CON



DIVISIONWIDE

LOCATION: WAKE COUNTY

TYPE OF WORK: CURB RAMP INSTALLATIONS

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5785I = APPROX 0.5 MILES
TOTAL LENGTH TIP PROJECT R-5785I = APPROX 0.5 MILE

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE: 2/9/2022

RANDY FINGER
PROJECT ENGINEER

NV5
PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

Sheet No.
2

TIP Number:	R-5785 I
WBS Number:	44915.3.15
County:	Wake

TIP Number	County	Municipality	0000100000-N Mobilization LS	4447000000-E Pedestrian Channelizing Devices LF	4600000000-N Generic Traffic Control Item - Pedestrian Transport Service EA	4600000000-N Generic Traffic Control Item - Audible Warning Device EA	1693000000-E Asphalt Plant Mix Pavement Repair TON	2549000000-E 2'-6" Concrete Curb & Gutter LF	2591000000-E 4" Concrete Sidewalk SY	2738000000-E Remove Sidewalk SY	2830000000-N Adjustment of Manholes EA	2845000000-N Adjustment of Meter Boxes or Valve Boxes EA	4116100000-N Relocate Sign Type E EA	4695000000-E 8" X 90 MIL White Thermo LF	4860000000-E 8" Line Removal LF	2600000000-N Retrofit Existing Curb Ramps EA	2613000000-N Remove and Replace Curb Ramps EA	2605000000-N Concrete Curb Ramps EA	2759000000-N Remove Curb Ramps EA
R-5785 I	Wake	Garner						248	122	25	1	3	2	160	175	15	133	6	14
R-5785 I	Wake	Raleigh						380	183	25	1	0	2	0	0	130	55	0	26
-	-	-	**1**	**160**	**40**	**19**	**2**	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL			**1**	**160**	**40**	**19**	**2**	**628**	**305**	**50**	**2**	**3**	**4**	**160**	**175**	**145**	**188**	**6**	**40**

SUMMARY OF QUANTITIES – WAKE COUNTY - GARNER

Sheet No.
3

Municipality: Garner
Project Number: R-5785I
WBS Number: 44915.3.15
County: Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E 2'-6" Concrete Curb & Gutter LF	2591000000-E 4" Concrete Sidewalk SY	2738000000-E Remove Sidewalk SY	2830000000-N Adjustment of Manholes EA	2845000000-N Adjustment of Meter Boxes or Valve Boxes EA	4116100000-N Relocate Sign Type E EA	4695000000-E 8" X 90 MIL White Thermo LF	4860000000-E 8" Line Removal LF	2600000000-N Retrofit Existing Curb Ramps EA	2613000000-N Remove and Replace Curb Ramps EA	2605000000-N Concrete Curb Ramps EA	2759000000-N Remove Curb Ramps EA	Improvement Type
8901	1	SR-1004 (W Garner Rd)	TT&E (1846 W. Garner Rd)										1			Type1A
2793	2	SR-2812 (Timber Dr)	Garner Town Square Shopping Center (2765 Timber Dr)			3							1			Type1Modified
2791	2	SR-2812 (Timber Dr)	Garner Town Square Shopping Center (2765 Timber Dr)										1			Type2B
23968	2	SR-2812 (Timber Dr)	Garner Town Square Shopping Center (2765 Timber Dr)											1		Type7
23969	2	SR-2812 (Timber Dr)	Garner Town Square Shopping Center (2765 Timber Dr)											1		Type7
2795	3	SR-2812 (Timber Dr)	First Citizens Bank (2520 Timber Dr) Entrance										1			Type1Modified
2794	3	SR-2812 (Timber Dr)	First Citizens Bank (2520 Timber Dr) Entrance										1			Type1Modified
9415	4	SR-2539 (Yeargan Rd)	New Fidelity Ct										1			Type3Modified
6641	5	SR-1004 (W Garner Rd)	SR-2541 (Weston Rd)										1			Type1Modified
23972	5	SR-1004 (W Garner Rd)	SR-2541 (Weston Rd)						1					1		Type1Modified
6570	6	SR-1004 (W Garner Rd)	Johnson St					1					1			Type1Modified
6571	6	SR-1004 (W Garner Rd)	Johnson St										1			Type1Modified
9576	7	SR-2561 (Benson Rd)	Webb's Gas Station (807 W. Garner Rd) Entrance										1			Type1Modified
9578	8	SR-2561 (Benson Rd)	W Main St										1			Type2B
9585	9	SR-2564 (Creech Rd)	Creech Road Elementary School North Entrance										1			Type1Modified
9584	9	SR-2564 (Creech Rd)	Creech Road Elementary School North Entrance										1			Type1Modified
9583	10	SR-2564 (Creech Rd)	Creech Road Elementary School South Entrance										1			Type1Modified
9582	10	SR-2564 (Creech Rd)	Creech Road Elementary School South Entrance										1			Type1Modified
9437	11	SR-2713 (Vandora Springs Rd)	Vandora Springs Road Professional Center (934 Vandora Springs Rd)										1			Type1Modified
9440	11	SR-2713 (Vandora Springs Rd)	KS Bank (920 7th Ave) Side Entrance	8	7								1			Type1Modified
9441	11	SR-2713 (Vandora Springs Rd)	KS Bank (920 7th Ave) Side Entrance										1			Type1Modified
9436	11	SR-2713 (Vandora Springs Rd)	Vandora Springs Road Professional Center (934 Vandora Springs Rd)										1			Type1Modified
9434	12	SR-2713 (Vandora Springs Rd)	Technical Rescue Operations (990 Vandora Springs Rd) Side Entrance										1			Type1Modified
9435	12	SR-2713 (Vandora Springs Rd)	Technical Rescue Operations (990 Vandora Springs Rd) Side Entrance										1			Type1Modified
9421	13	SR-2713 (Vandora Springs Rd)	Foxwood Dr										1			Type1Modified
9555	14	SR-2794 (Seventh Ave)	Hartwell St										1			Type1Modified
9556	14	SR-2794 (Seventh Ave)	Hartwell St										1			Type1Modified
9558	15	SR-2794 (Seventh Ave)	Apartment Complex (929 7th Ave) Entrance										1			Type1Modified
9573	15	SR-2794 (Seventh Ave)	Forest Hills Dr										1			Type4B
9557	15	SR-2794 (Seventh Ave)	Apartment Complex (929 7th Ave) Entrance										1			Type1Modified
9572	15	SR-2794 (Seventh Ave)	Forest Hills Dr										1			Type1Modified
9570	16	SR-2794 (Seventh Ave)	Garner Police (912 7th Ave) Entrance										1			Type1Modified
9569	17	SR-2794 (Seventh Ave)	Garner Police Department / Library (912 7th Ave) Entrance										1			Type1Modified
9560	17	SR-2794 (Seventh Ave)	Westchester Apartments (910 7th Ave) Entrance										1			Type1Modified
9559	17	SR-2794 (Seventh Ave)	Westchester Apartments (910 7th Ave) Entrance										1			Type1Modified
9568	17	SR-2794 (Seventh Ave)	Garner Police Department / Library (912 7th Ave) Entrance										1			Type1Modified
9562	18	SR-2794 (Seventh Ave)	Westchester Apartments (905 7th Ave) Entrance										1			Type1Modified
9561	18	SR-2794 (Seventh Ave)	Westchester Apartments (905 7th Ave) Entrance										1			Type1Modified
9567	18	SR-2794 (Seventh Ave)	Garner Town Hall (900 7th Ave) Entrance										1			Type1Modified
9416	19	SR-2825 (Spring Dr)	Buckhorn Rd										1			Type1Modified
9417	19	SR-2825 (Spring Dr)	Buckhorn Rd										1			Type1Modified
9426	20	SR-2713 (Vandora Springs Rd)	Lakeside Dr											1		Type1Modified
9425	20	SR-2713 (Vandora Springs Rd)	Lakeside Dr					1					1			Type1Modified
2808	21	SR-2812 (Timber Dr)	Jersey Mike's / Sylvan Learning Center (2345 Timber Dr) Entrance										1			Type1Modified
2807	21	SR-2812 (Timber Dr)	Jersey Mike's / Sylvan Learning Center (2345 Timber Dr) Entrance										1			Type1Modified
2810	22	SR-2812 (Timber Dr)	Timber-Woodland Shopping Center (2610 Timber Drive) Entrance										1			Type1Modified
2809	22	SR-2812 (Timber Dr)	Timber-Woodland Shopping Center (2610 Timber Drive) Entrance										1			Type1Modified
2832	23	SR-2715 (Woodland Rd)	Beckworth Ct										1			Type3Modified
2831	23	SR-2715 (Woodland Rd)	Beckworth Ct										1			Type1Modified
2828	24	SR-2715 (Woodland Rd)	Brompton Ln										1			Type4B
2826	24	SR-2715 (Woodland Rd)	Brompton Ln										1			Type1Modified
9427	25	SR-2713 (Vandora Springs Rd)	Vandora Ave										1			Type1Modified
9428	25	SR-2713 (Vandora Springs Rd)	Vandora Ave										1			Type1Modified
9430	26	SR-2713 (Vandora Springs Rd)	Park Ave										1			Type1Modified
9429	26	SR-2713 (Vandora Springs Rd)	Park Ave										1			Type1Modified
9431	27	SR-2713 (Vandora Springs Rd)	Fowler Dr					1					1			Type1Modified
9432	27	SR-2713 (Vandora Springs Rd)	Fowler Dr										1			Type1Modified
Sub-Total				**8**	**7**	**3**	**0**	**3**	**1**	**0**	**0**	**0**	**53**	**4**	**0**	

SUMMARY OF QUANTITIES – WAKE COUNTY - GARNER

Sheet No.
4

Municipality: Garner
Project Number: R-5785I
WBS Number: 44915.3.15
County: Wake

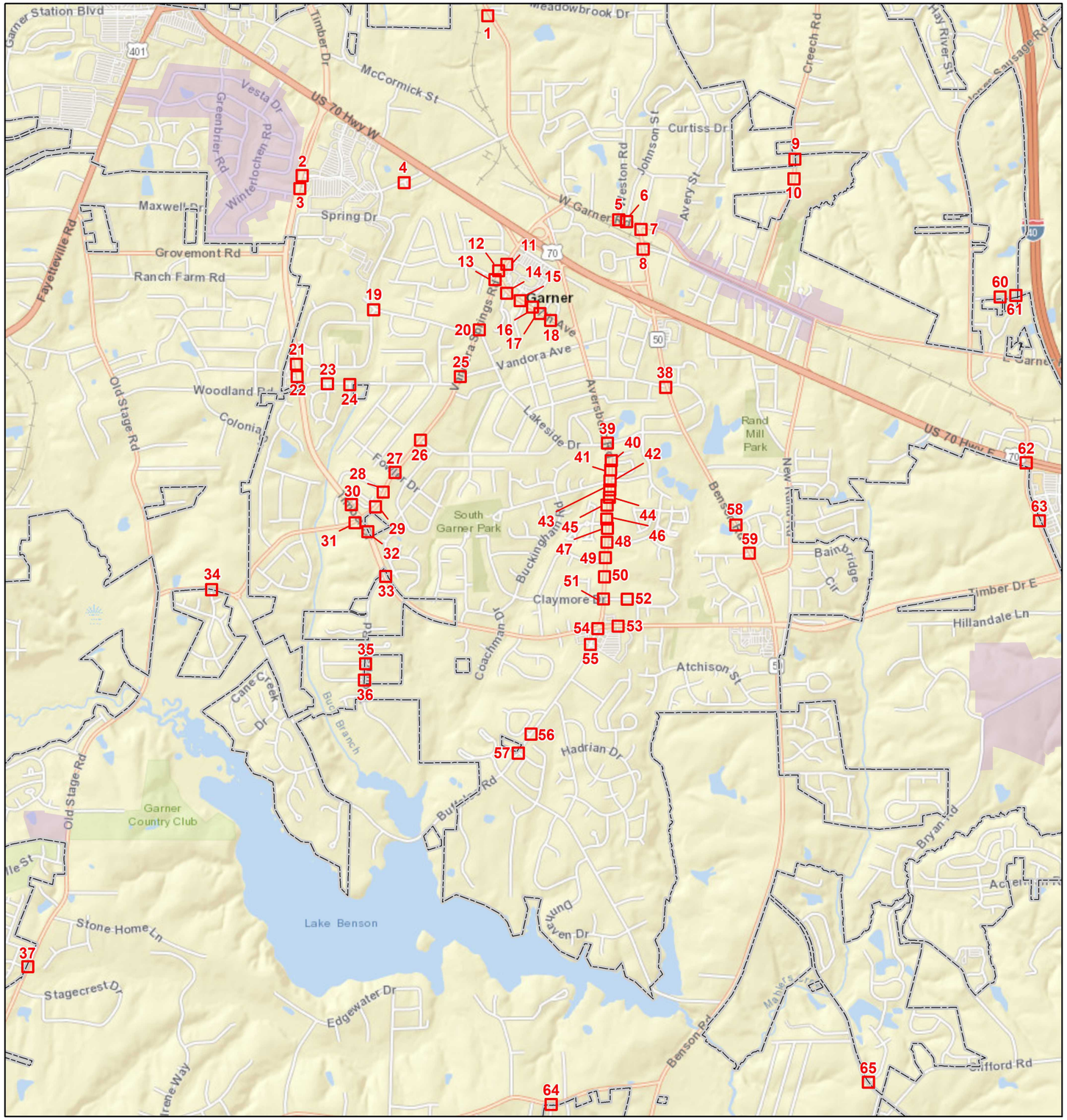
Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E 2'-6" Concrete Curb & Gutter LF	2591000000-E 4" Concrete Sidewalk SY	2738000000-E Remove Sidewalk SY	2830000000-N Adjustment of Manholes EA	2845000000-N Adjustment of Meter Boxes or Valve Boxes EA	4116100000-N Relocate Sign Type E EA	4695000000-E 8" X 90 MIL White Thermo LF	4860000000-E 8" Line Removal LF	2600000000-N Retrofit Existing Curb Ramps EA	2613000000-N Remove and Replace Curb Ramps EA	2605000000-N Concrete Curb Ramps EA	2759000000-N Remove Curb Ramps EA	Improvement Type
9433	28	SR-2713 (Vandora Springs Rd)	N Gleneagle Dr									1				RetrofitWarnings
6538	29	SR 2713 (Vandora Springs Rd)	Vandora Springs Free Will Baptist Church (1521 Vandora Springs Rd)										1			Type1Modified
6537	29	SR 2713 (Vandora Springs Rd)	Vandora Springs Free Will Baptist Church (1521 Vandora Springs Rd)										1			Type1Modified
6535	29	SR-2713 (Vandora Springs Rd)	Grand Pointe Dr										1			Type3Modified
6536	29	SR-2713 (Vandora Springs Rd)	Grand Pointe Dr										1			Type1B
2833	30	SR-2812 (Timber Dr)	Grand Pointe Dr										1			Type3Modified
2834	30	SR-2812 (Timber Dr)	Grand Pointe Dr										1			Type1Modified
8754	31	SR-2711 (Vandora Springs Rd)	Garner Volunteer Fire Rescue 3 Entrance										1			Type1Modified
8753	31	SR-2711 (Vandora Springs Rd)	Garner Volunteer Fire Rescue 3 Entrance										1			Type1Modified
6607	32	SR-2812 (Timber Dr)	Garner Volunteer Fire Rescue Station 3 Entrance										1			Type1Modified
6608	32	SR-2812 (Timber Dr)	Garner Volunteer Fire Rescue Station 3 Entrance										1			Type1Modified
6665	33	SR-2812 (Timber Dr)	Heather Springs Dr										1			Type1Modified
6602	33	SR-2812 (Timber Dr)	Heather Springs Dr	20	9										1	Remove Ramp
23971	33	SR 2812 (Timber Dr)	Heather Springs Dr							160				1		Type3
6604	33	SR-2812 (Timber Dr)	Heather Springs Dr	17	8						175				1	Remove Ramp
6666	33	SR 2812 (Timber Dr)	Thompson Rd									1				RetrofitWarnings
23970	33	SR 2812 (Timber Dr)	Thompson Rd											1		Type3Modified
6603	33	SR-2812 (Timber Dr)	Heather Springs Dr									1				RetrofitWarnings
6605	33	SR 2812 (Timber Dr)	Thompson Rd									1				RetrofitWarnings
8649	34	SR-2711 (Vandora Springs Rd)	Roan Dr	18	8										1	Remove Ramp
8651	34	SR-2711 (Vandora Springs Rd)	Roan Dr										1			Type1Modified
8650	34	SR-2711 (Vandora Springs Rd)	Roan Dr										1			Type3Modified
8652	34	SR-2711 (Vandora Springs Rd)	Roan Dr	11											1	Remove Ramp
8759	35	SR-2712 (Thompson Rd)	Monabreeze Way									1				RetrofitWarnings
8760	35	SR-2712 (Thompson Rd)	Monabreeze Way									1				RetrofitWarnings
8761	36	SR-2712 (Thompson Rd)	Luxorwind Dr									1				RetrofitWarnings
8762	36	SR-2712 (Thompson Rd)	Luxorwind Dr									1				RetrofitWarnings
8645	37	SR-1006 (Old Stage Rd)	Seastone St	19	7										1	Remove Ramp
8644	37	SR-1006 (Old Stage Rd)	Seastone St										1			Type4B
23973	38	NC-50 (Benson Rd)	Forest Dr										1			Type1Modified
6514	39	SR-2710 (Aversboro Rd)	Lakeside Dr										1			Type1Modified
6513	39	SR-2710 (Aversboro Rd)	Lakeside Dr										1			Type1Modified
6507	40	SR-2710 (Aversboro Rd)	Bayleigh Ct										1			Type4B
6662	40	SR-2710 (Aversboro Rd)	Bellaris St										1			Type1Modified
6509	40	SR-2710 (Aversboro Rd)	Bayleigh Ct										1			Type4B
6511	40	SR-2710 (Aversboro Rd)	Spiritual Twist Productions (1250 Aversboro Rd) North Entrance										1			Type1Modified
6512	40	SR-2710 (Aversboro Rd)	Spiritual Twist Productions (1250 Aversboro Rd) North Entrance										1			Type1Modified
6504	41	SR-2710 (Aversboro Rd)	Spiritual Twist Productions (1250 Aversboro Rd) South Entrance										1			Type1Modified
6506	41	SR-2710 (Aversboro Rd)	Spiritual Twist Productions (1250 Aversboro Rd) South Entrance										1			Type1Modified
6501	42	SR-2710 (Aversboro Rd)	Poole Dr										1			Type3Modified
6502	42	SR-2710 (Aversboro Rd)	Poole Dr										1			Type3Modified
6499	42	SR-2710 (Aversboro Rd)	Poole Dr		5								1			Type1Modified
6503	42	SR-2710 (Aversboro Rd)	Poole Dr										1			Type1Modified
6495	43	SR-2710 (Aversboro Rd)	Aversboro Rd Office Center (1418 Aversboro Rd)										1			Type1Modified
6498	43	SR-2710 (Aversboro Rd)	Shopping and Offices (1401 Aversboro Rd)										1			Type1Modified
6496	43	SR-2710 (Aversboro Rd)	Shopping and Offices (1401 Aversboro Rd)										1			Type1Modified
6493	43	SR-2710 (Aversboro Rd)	Aversboro Rd Office Center (1418 Aversboro Rd)										1			Type1Modified
2543	44	SR-2710 (Aversboro Rd)	Aversboro Square (1411 Aversboro Rd)										1			Type1Modified
23331	44	SR 2710 (Aversboro Rd)	Aversboro Rd Office Center (1428 Aversboro Rd)										1			Type1Modified
2541	44	SR-2710 (Aversboro Rd)	Aversboro Square (1411 Aversboro Rd)										1			Type7
2542	44	SR-2710 (Aversboro Rd)	Aversboro Square (1411 Aversboro Rd)										1			Type7
23330	44	SR 2710 (Aversboro Rd)	Aversboro Rd Office Center (1428 Aversboro Rd)										1			Type1Modified
2540	44	SR-2710 (Aversboro Rd)	Aversboro Square (1411 Aversboro Rd)										1			Type1Modified
2546	45	SR-2710 (Aversboro Rd)	Townhomes (1430 Aversboro Rd) North Entrance										1			Type1Modified
2547	45	SR-2710 (Aversboro Rd)	Townhomes (1430 Aversboro Rd) North Entrance										1			Type1Modified
2538	46	SR-2710 (Aversboro Rd)	Townhomes (1460 Aversboro Rd) South Entrance										1			Type1Modified
2537	46	SR-2710 (Aversboro Rd)	Townhomes (1460 Aversboro Rd) South Entrance										1			Type1Modified
2536	46	SR-2710 (Aversboro Rd)	Olde Manor Ln		6								1			Type1
2535	46	SR-2710 (Aversboro Rd)	Olde Manor Ln	15	6										1	Remove Ramp
2528	47	SR-2710 (Aversboro Rd)	LDS Church (1433 Aversboro Rd) South Entrance										1			Type1Modified
2527	47	SR-2710 (Aversboro Rd)	LDS Church (1433 Aversboro Rd) South Entrance										1			Type1Modified
Sub-Total				**100**	**49**	**0**	**0**	**0**	**0**	**160**	**175**	**8**	**45**	**2**	**6**	

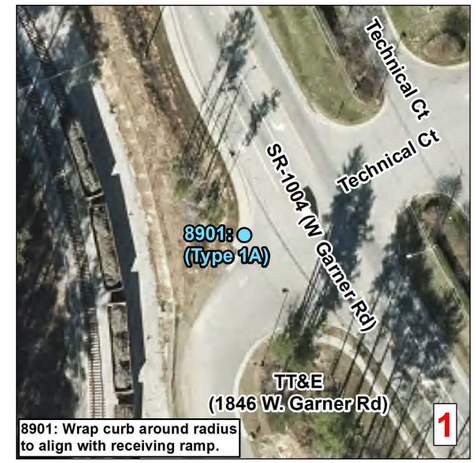
SUMMARY OF QUANTITIES – WAKE COUNTY - GARNER

Sheet No.
5

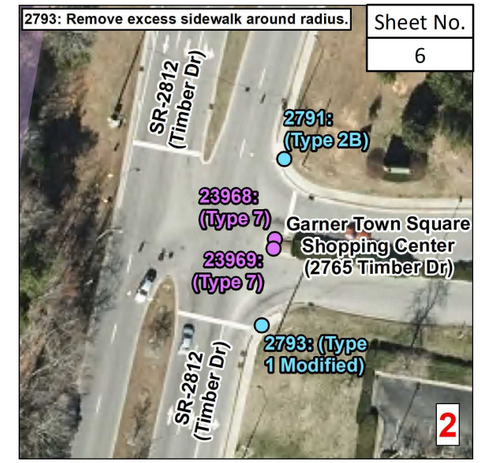
Municipality: Garner
Project Number: R-5785I
WBS Number: 44915.3.15
County: Wake

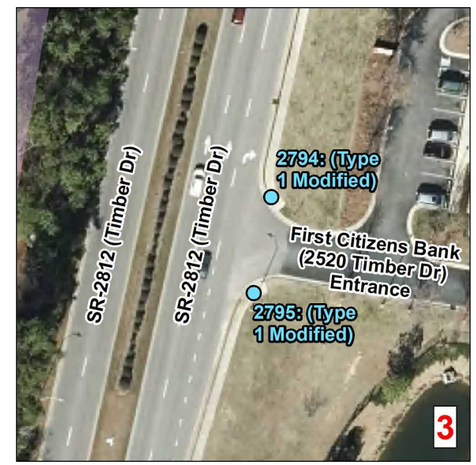
Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E 2'-6" Concrete Curb & Gutter LF	2591000000-E 4" Concrete Sidewalk SY	2738000000-E Remove Sidewalk SY	2830000000-N Adjustment of Manholes EA	2845000000-N Adjustment of Meter Boxes or Valve Boxes EA	4116100000-N Relocate Sign Type E EA	4695000000-E 8" X 90 MIL White Thermo LF	4860000000-E 8" Line Removal LF	2600000000-N Retrofit Existing Curb Ramps EA	2613000000-N Remove and Replace Curb Ramps EA	2605000000-N Concrete Curb Ramps EA	2759000000-N Remove Curb Ramps EA	Improvement Type
2529	47	SR-2710 (Aversboro Rd)	Olde Manor Ln		6								1			Type1
2530	47	SR-2710 (Aversboro Rd)	Olde Manor Ln	15	6										1	Remove Ramp
2523	48	SR-2710 (Aversboro Rd)	Heather Hills Townhomes (1504 Aversboro Rd) North Entrance										1			Type1Modified
2524	48	SR-2710 (Aversboro Rd)	Heather Hills Townhomes (1504 Aversboro Rd) North Entrance										1			Type1Modified
2521	48	SR-2710 (Aversboro Rd)	Heather Park Dr										1			Type2B
2522	48	SR-2710 (Aversboro Rd)	Heather Park Dr										1			Type1Modified
2520	49	SR-2710 (Aversboro Rd)	Brucemont Dr										1			Type1Modified
2526	49	SR-2710 (Aversboro Rd)	Heather Hills Townhome (1550 Aversboro Rd) South Entrance										1			Type1Modified
2525	49	SR-2710 (Aversboro Rd)	Heather Hills Townhome (1550 Aversboro Rd) South Entrance										1			Type1Modified
2519	49	SR-2710 (Aversboro Rd)	Brucemont Dr										1			Type1Modified
2518	50	SR 2710 (Aversboro Rd)	Aversboro Elementary School Crossing to Church										1			Type3
2514	50	SR-2710 (Aversboro Rd)	Aversboro Road Baptist Church (1600 Aversboro Rd) North Entrance										1			Type1Modified
2513	50	SR-2710 (Aversboro Rd)	Aversboro Road Baptist Church (1600 Aversboro Rd) North Entrance										1			Type1Modified
2508	51	SR-2710 (Aversboro Rd)	SR 2813 (Claymore Dr)										1			Type1Modified
2507	51	SR-2710 (Aversboro Rd)	SR 2813 (Claymore Dr)	13	5										1	Remove Ramp
2505	51	SR-2710 (Aversboro Rd)	SR 2813 (Claymore Dr)	14	3										1	Remove Ramp
2506	51	SR-2710 (Aversboro Rd)	SR 2813 (Claymore Dr)										1			Type3Modified
2504	51	SR-2710 (Aversboro Rd)	SR 2813 (Claymore Dr)										1			Type2AModified
8731	52	SR-2813 (Claymore Dr)	Aversboro Elementary (940 Claymore Dr) Service Entrance										1			Type1Modified
8730	52	SR-2813 (Claymore Dr)	Aversboro Elementary (940 Claymore Dr) Service Entrance										1			Type1Modified
6579	53	SR-2812 (Timber Dr)	ALDI (750 Timber Dr) Entrance										1			Type1Modified
6578	53	SR-2812 (Timber Dr)	ALDI (750 Timber Dr) Entrance		3		1						1			Type1Modified
6577	53	SR-2812 (Timber Dr)	Lowes Food Shopping Center (755 Timber Dr) Entrance										1			Type1Modified
6576	53	SR-2812 (Timber Dr)	Lowes Food Shopping Center (755 Timber Dr) Entrance		6				1				1			Type3Modified
6580	54	SR 2710 (Aversboro Rd)	SR 2812 (Timber Dr)									1				RetrofitWarnings
6581	54	SR 2710 (Aversboro Rd)	SR 2812 (Timber Dr)									1				RetrofitWarnings
6575	55	SR 2710 (Aversboro Rd)	Lowes Food Shopping Center (1845 Aversboro Rd) Entrance										1			Type4B
6574	55	SR 2710 (Aversboro Rd)	Lowes Food Shopping Center (1845 Aversboro Rd) Entrance										1			Type1Modified
8733	56	SR-2710 (Aversboro Rd)	Faith Community Church (2225 Aversboro Rd) Entrance										1			Type1B
8734	56	SR-2710 (Aversboro Rd)	Faith Community Church (2225 Aversboro Rd) Entrance										1			Type1Modified
8735	56	SR-2710 (Aversboro Rd)	Berryfield Ln									1				RetrofitWarnings
8737	57	SR-2710 (Aversboro Rd)	Oldefield Ln										1			Type3Modified
8736	57	SR-2710 (Aversboro Rd)	Oldefield Ln										1			Type1Modified
8738	57	SR-2710 (Aversboro Rd)	Oldefield Ln	20	8										1	Remove Ramp
6660	58	NC-50 (Benson Rd)	Foley Dr										1			Type3Modified
6661	59	NC-50 (Benson Rd)	Southerby Dr									1				RetrofitWarnings
9598	60	SR-2613 (Wkbq Radio Station Rd)	East Garner Elementary School Side Entrance										1			Type1Modified
9599	60	SR-2613 (Wkbq Radio Station Rd)	East Garner Elementary School Side Entrance										1			Type1Modified
9597	61	SR-2613 (Wkbq Radio Station Rd)	East Garner Elementary School Back Entrance										1			Type1Modified
6486	62	US-70	SR-2547 (White Oak Rd)									1				RetrofitWarnings
23894	63	SR-2547 (White Oak Rd)	Carillon Dr	18	10										1	Remove Ramp
6482	63	SR-2547 (White Oak Rd)	Carillon Dr										1			Type3Modified
6481	63	SR-2547 (White Oak Rd)	Carillon Dr										1			Type1Modified
23895	63	SR-2547 (White Oak Rd)	Carillon Dr	18											1	Remove Ramp
8751	64	SR-2728 (Rand Rd)	Verde Glen Dr									1				RetrofitWarnings
8752	64	SR-2728 (Rand Rd)	Verde Glen Dr									1				RetrofitWarnings
9222	65	SR-2703 (New Bethel Church Rd)	Sutton Springs Dr	22	10										1	Remove Ramp
9221	65	SR-2703 (New Bethel Church Rd)	Sutton Springs Dr										1			Type3Modified
9220	65	SR-2703 (New Bethel Church Rd)	Sutton Springs Dr										1			Type3Modified
9219	65	SR-2703 (New Bethel Church Rd)	Sutton Springs Dr	20	9										1	Remove Ramp
-	-	-	-	-	-	22	-	-	-	-	-	-	-	-	-	
Sub-Total				**140**	**66**	**22**	**1**	**0**	**1**	**0**	**0**	**7**	**35**	**0**	**8**	
Sub-Total for Garner				**248**	**122**	**25**	**1**	**3**	**2**	**160**	**175**	**15**	**133**	**6**	**14**	





8901: Wrap curb around radius to align with receiving ramp.





9415: Construct ramp to cross New Fidelity Ct.

23972: Relocate street sign.

Curb Ramps To Be Repaired

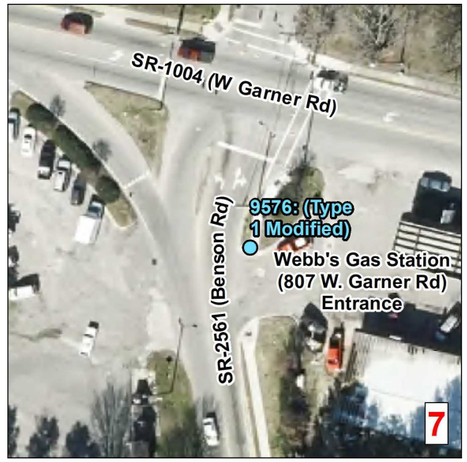
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Municipal Boundary
- NCHPO Historic Boundary (NR, LHD and DOE)

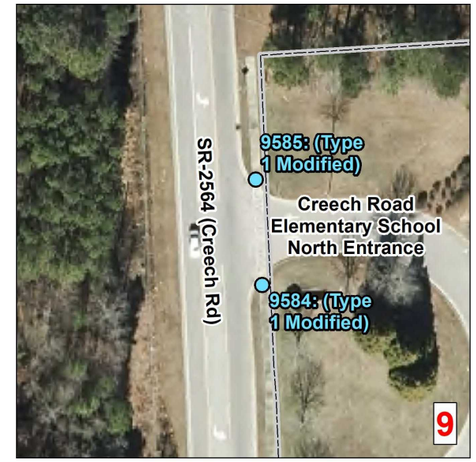
Municipality: Garner
TIP Number: R-5785I
WBS Number: 44915.3.15
County: Wake

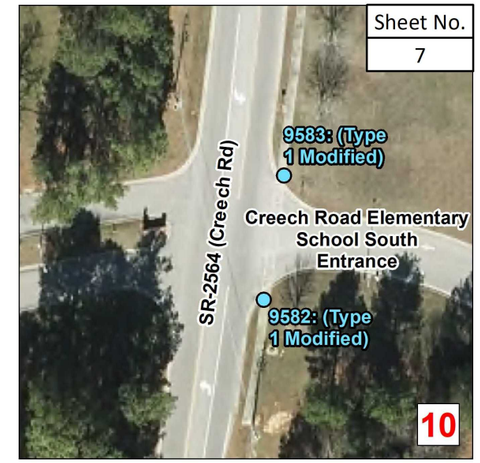
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

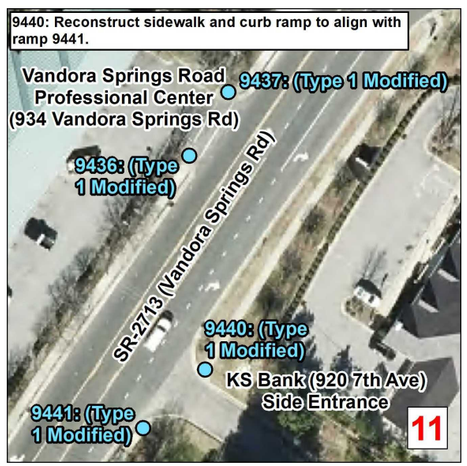
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO

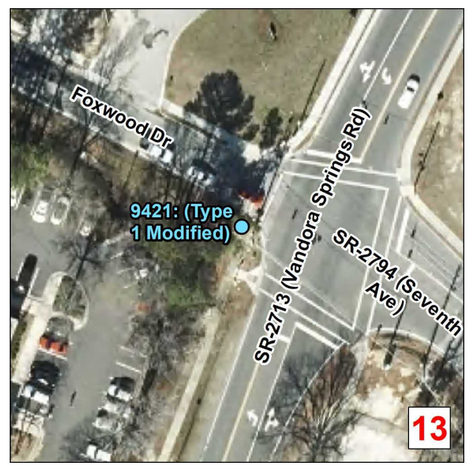
Sheet No.
7

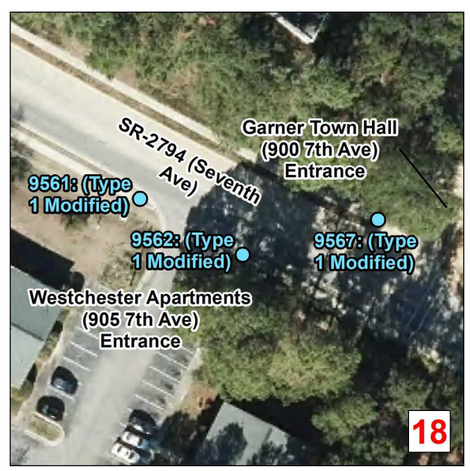












Curb Ramps To Be Repaired

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

- Municipal Boundary
- NCHPO Historic Boundary (NR, LHD and DOE)

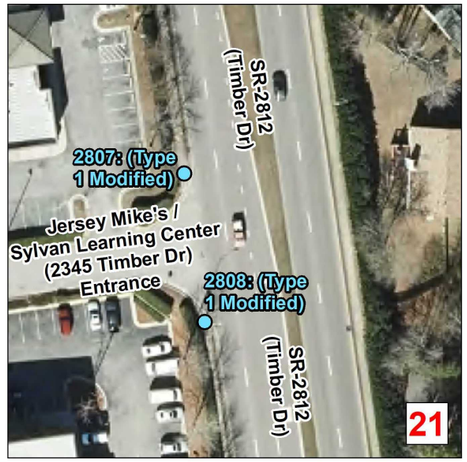
Municipality: Garner
TIP Number: R-5785I
WBS Number: 44915.3.15
County: Wake

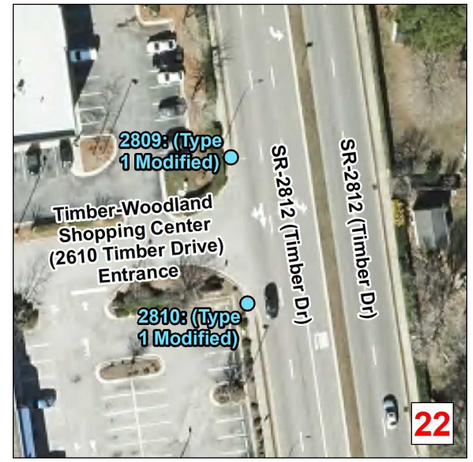
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

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

Sheet No.
8

9425: Adjust water valve.



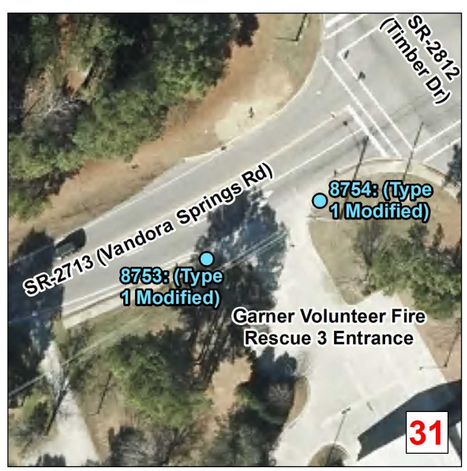


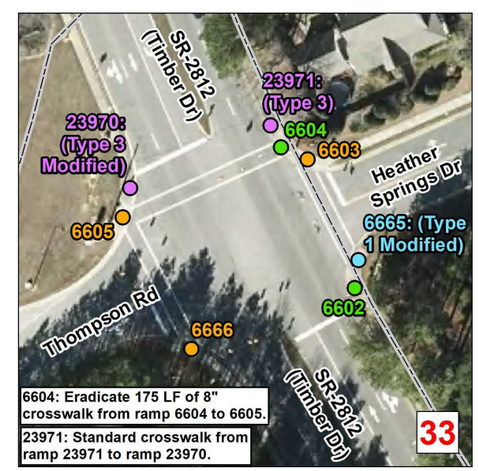
2832: Construct curb ramp directionally to cross Beckworth Ct.

9431: Adjust water valve.

6535, 6536: Construct ramp to directionally cross Grand Pointe Dr.

2833: Construct directionally to cross Grand Pointe Dr.
2834: Construct flare to tie flush into concrete spillway.





6604: Eradicate 175 LF of 8" crosswalk from ramp 6604 to 6605.
23971: Standard crosswalk from ramp 23971 to ramp 23970.

Curb Ramps To Be Repaired

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

Municipal Boundary
NCHPO Historic Boundary (NR, LHD and DOE)

Municipality: Garner
TIP Number: R-5785I
WBS Number: 44915.3.15
County: Wake

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

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

Sheet No.
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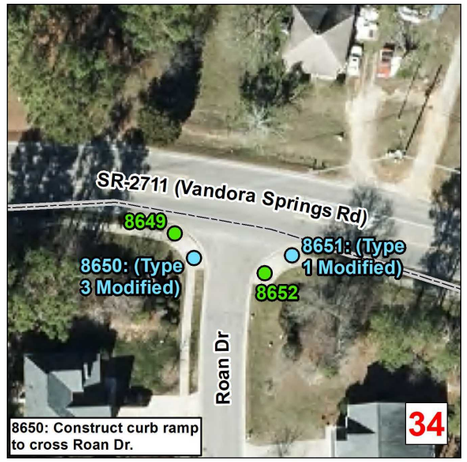
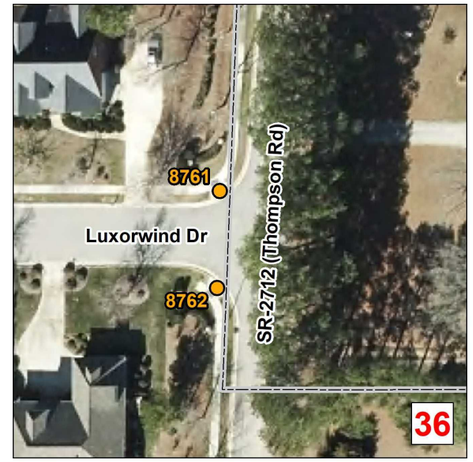
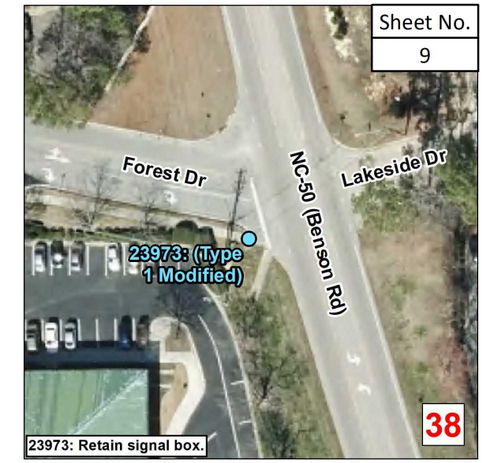
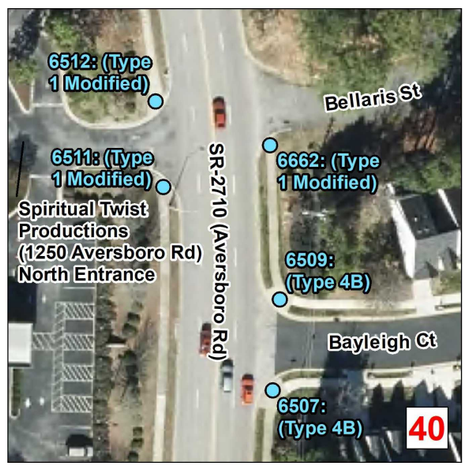
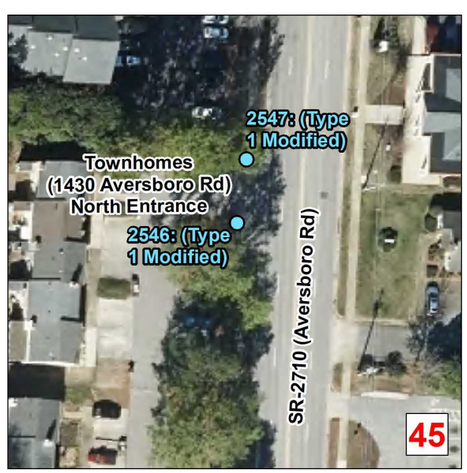
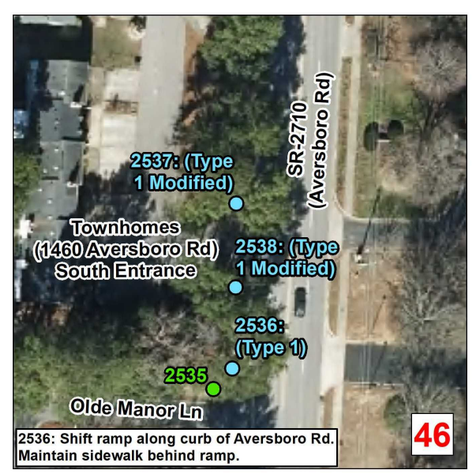












Curb Ramps To Be Repaired

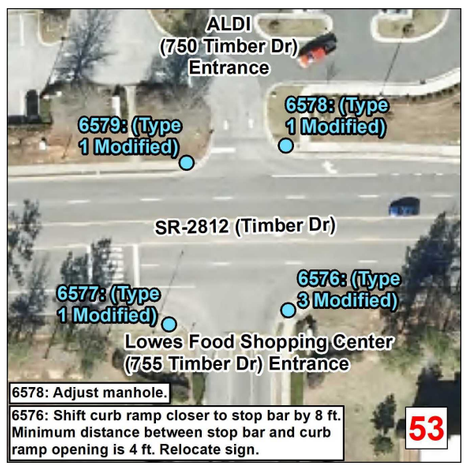
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp

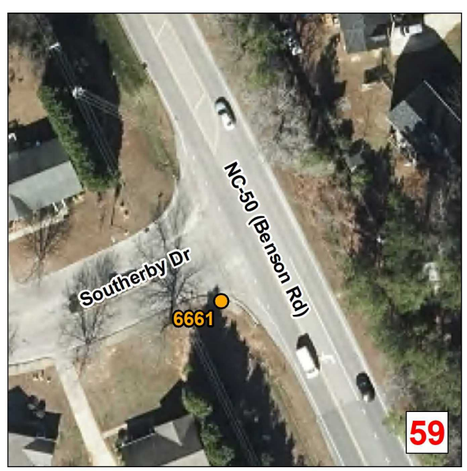
- Municipal Boundary
- NCHPO Historic Boundary (NR, LHD and DOE)

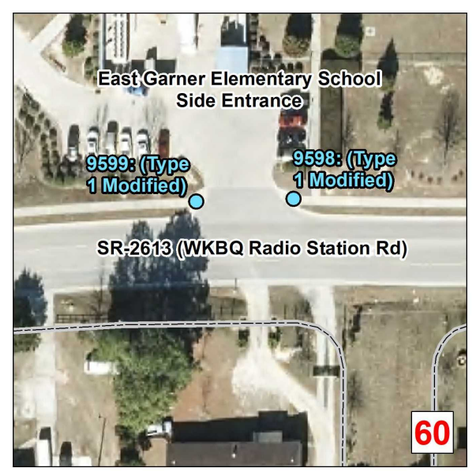
Municipality: Garner
TIP Number: R-5785I
WBS Number: 44915.3.15
County: Wake

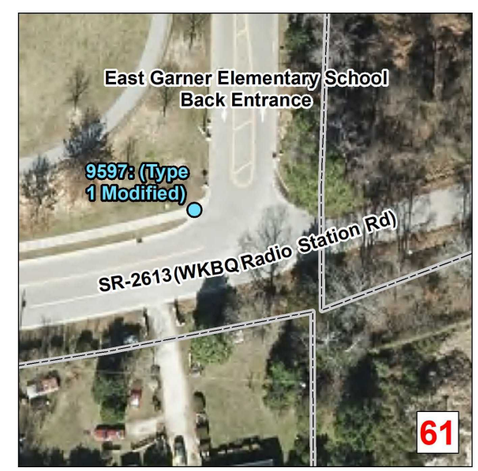
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

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









Curb Ramps To Be Repaired

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

Municipal Boundary

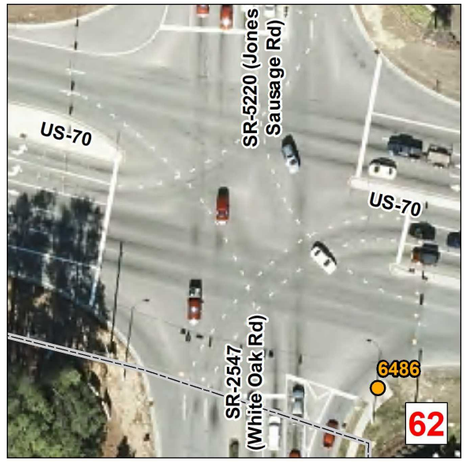
NCHPO Historic Boundary (NR, LHD and DOE)

Municipality: Garner
TIP Number: R-5785I
WBS Number: 44915.3.15
County: Wake

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

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

Sheet No.
11



Curb Ramps To Be Repaired

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

- Municipal Boundary
- NCHPO Historic Boundary (NR, LHD and DOE)

Municipality: Garner
TIP Number: R-5785I
WBS Number: 44915.3.15
County: Wake

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

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

SUMMARY OF QUANTITIES – WAKE COUNTY - RALEIGH

Sheet No.
12

Municipality: Raleigh
Project Number: R-5785I
WBS Number: 44915.3.15
County: Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E 2'-6" Concrete Curb & Gutter LF	2591000000-E 4" Concrete Sidewalk SY	2738000000-E Remove Sidewalk SY	2830000000-N Adjustment of Manholes EA	2845000000-N Adjustment of Meter Boxes or Valve Boxes EA	4116100000-N Relocate Sign Type E EA	4695000000-E 8" X 90 MIL White Thermo LF	4860000000-E 8" Line Removal LF	2600000000-N Retrofit Existing Curb Ramps EA	2613000000-N Remove and Replace Curb Ramps EA	2605000000-N Concrete Curb Ramps EA	2759000000-N Remove Curb Ramps EA	Improvement Type
15883	1	SR-1321 (Avent Ferry Rd)	Glencastle Way									1				RetrofitWarnings
15886	2	SR-1321 (Avent Ferry Rd)	Avent Ferry Rd Crossing (4303 Avent Ferry Rd)						1				1			Standard - 848.06
15884	3	SR-1321 (Avent Ferry Rd)	Loch Harbour Ln									1				RetrofitWarnings
15885	3	SR-1321 (Avent Ferry Rd)	Loch Harbour Ln									1				RetrofitWarnings
15887	4	SR-1321 (Avent Ferry Rd)	Athens Drive Magnet High School (1420 Avent Ferry Rd) West Entrance									1				RetrofitWarnings
15888	4	SR-1321 (Avent Ferry Rd)	Athens Drive Magnet High School (1420 Avent Ferry Rd) West Entrance									1				RetrofitWarnings
15889	5	SR-1321 (Avent Ferry Rd)	Athens Drive Magnet High School (1420 Athens Dr) East Entrance									1				RetrofitWarnings
15890	5	SR-1321 (Avent Ferry Rd)	Athens Drive Magnet High School (1420 Athens Dr) East Entrance									1				RetrofitWarnings
6364	6	SR-1321 (Avent Ferry Rd)	Athens Dr										1			Type3Modified
6363	6	SR-1321 (Avent Ferry Rd)	Athens Dr									1				RetrofitWarnings
23960	7	SR-1321 (Avent Ferry Rd)	Lake Dam Rd									1				RetrofitWarnings
6360	7	SR-1321 (Avent Ferry Rd)	Pineview Dr										1			Type1Modified
23961	7	SR-1321 (Avent Ferry Rd)	Lake Dam Rd									1				RetrofitWarnings
6362	7	SR-1321 (Avent Ferry Rd)	Lake Dam Rd									1				RetrofitWarnings
6361	7	SR-1321 (Avent Ferry Rd)	Lake Dam Rd									1				RetrofitWarnings
6359	7	SR-1321 (Avent Ferry Rd)	Pineview Dr										1			Type2AModified
6358	8	SR-1321 (Avent Ferry Rd)	Swift Dr										1			Type1Modified
6357	8	SR-1321 (Avent Ferry Rd)	Swift Dr										1			Type1Modified
6356	9	SR-1321 (Avent Ferry Rd)	Crab Orchard Dr									1				RetrofitWarnings
6355	9	SR-1321 (Avent Ferry Rd)	Crab Orchard Dr										1			Type3Modified
6354	10	SR-1321 (Avent Ferry Rd)	Apple Blossom Ct									1				RetrofitWarnings
6353	10	SR-1321 (Avent Ferry Rd)	Apple Blossom Ct									1				RetrofitWarnings
6352	11	SR-1321 (Avent Ferry Rd)	Fraternity House (3421 Avent Ferry Rd)										1			Type1Modified
6351	11	SR-1321 (Avent Ferry Rd)	Fraternity House (3421 Avent Ferry Rd)										1			Type1Modified
6348	12	SR-1321 (Avent Ferry Rd)	Merrie Rd										1			Type1Modified
6347	12	SR-1321 (Avent Ferry Rd)	Merrie Rd										1			Type1Modified
6346	12	SR-1321 (Avent Ferry Rd)	Kangaroo Gas Station (3289 Avent Ferry Rd) West Entrance									1				RetrofitWarnings
6344	13	SR-1321 (Avent Ferry Rd)	Kangaroo Gas Station (3289 Avent Ferry Rd) East Entrance									1				RetrofitWarnings
6343	13	SR-1321 (Avent Ferry Rd)	Kangaroo Gas Station (3289 Avent Ferry Rd) East Entrance									1				RetrofitWarnings
6342	14	SR-1321 (Avent Ferry Rd)	Avent Ferry Shopping Center (3229 Avent Ferry Rd) Main Entrance										1			Type1B
6341	14	SR-1321 (Avent Ferry Rd)	Avent Ferry Shopping Center (3229 Avent Ferry Rd) Main Entrance										1			Type1Modified
23962	14	SR-1321 (Avent Ferry Rd)	Avent Ferry Shopping Center (3229 Avent Ferry Rd) Main Entrance	14	5										1	Remove Ramp
23987	14	SR-1321 (Avent Ferry Rd)	Avent Ferry Shopping Center (3229 Avent Ferry Rd) Main Entrance	12	5										1	Remove Ramp
6334	15	SR-1321 (Avent Ferry Rd)	Gorman St										1			Type3Modified
6335	15	SR-1321 (Avent Ferry Rd)	Gorman St										1			Type3Modified
6336	15	SR-1321 (Avent Ferry Rd)	SR-1571 (Gorman St)										1			Type3Modified
6337	15	SR-1321 (Avent Ferry Rd)	SR-1571 (Gorman St)									1				RetrofitWarnings
6340	15	SR-1321 (Avent Ferry Rd)	SR-1571 (Gorman St)									1				RetrofitWarnings
23964	15	SR-1321 (Avent Ferry Rd)	SR-1571 (Gorman St)	15	8										1	Remove Ramp
6332	16	SR-1321 (Avent Ferry Rd)	Crescent Creek Dr									1				RetrofitWarnings
6333	16	SR-1321 (Avent Ferry Rd)	Crescent Creek Dr									1				RetrofitWarnings
6328	17	SR-1321 (Avent Ferry Rd)	Kensington Apartments (2800 Avent Ferry Rd) Southwest Entrance										1			Type1Modified
23965	17	SR-1321 (Avent Ferry Rd)	Kensington Apartments (2800 Avent Ferry Rd) Southwest Entrance				1						1			Type1Modified
6326	18	SR-1321 (Avent Ferry Rd)	Kensington Apartments (2800 Avent Ferry Rd) Northeast Entrance										1			Type1Modified
6327	18	SR-1321 (Avent Ferry Rd)	Kensington Apartments (2800 Avent Ferry Rd) Northeast Entrance										1			Type1Modified
6318	19	SR-1321 (Avent Ferry Rd)	Crest Rd									1				RetrofitWarnings
6320	19	SR-1321 (Avent Ferry Rd)	Crest Rd									1				RetrofitWarnings
6315	20	SR-1321 (Avent Ferry Rd)	Chappell Dr										1			Type1Modified
6316	20	SR-1321 (Avent Ferry Rd)	Chappell Dr									1				RetrofitWarnings
6295	21	SR-1321 (Avent Ferry Rd)	Pine Knoll Apartments (2505 Avent Ferry Rd)									1				RetrofitWarnings
6296	21	SR-1321 (Avent Ferry Rd)	Pine Knoll Apartments (2505 Avent Ferry Rd)									1				RetrofitWarnings
6297	21	SR-1321 (Avent Ferry Rd)	Avery Close Apartments (2508 Avent Ferry Rd) South Entrance										1			Type1Modified
6299	21	SR-1321 (Avent Ferry Rd)	Avery Close Apartments (2508 Avent Ferry Rd) South Entrance										1			Type1Modified
6292	22	SR-1321 (Avent Ferry Rd)	Avery Close Apartments (2508 Avent Ferry Rd) North Entrance									1				RetrofitWarnings
Sub-Total				**41**	**18**	**0**	**1**	**0**	**1**	**0**	**0**	**28**	**23**	**0**	**3**	

SUMMARY OF QUANTITIES – WAKE COUNTY - RALEIGH

Sheet No.
13

Municipality: Raleigh
Project Number: R-5785I
WBS Number: 44915.3.15
County: Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E 2'-6" Concrete Curb & Gutter LF	2591000000-E 4" Concrete Sidewalk SY	2738000000-E Remove Sidewalk SY	2830000000-N Adjustment of Manholes EA	2845000000-N Adjustment of Meter Boxes or Valve Boxes EA	4116100000-N Relocate Sign Type E EA	4695000000-E 8" X 90 MIL White Thermo LF	4860000000-E 8" Line Removal LF	2600000000-N Retrofit Existing Curb Ramps EA	2613000000-N Remove and Replace Curb Ramps EA	2605000000-N Concrete Curb Ramps EA	2759000000-N Remove Curb Ramps EA	Improvement Type
6289	22	SR-1321 (Avent Ferry Rd)	Ivy Commons Dr									1				RetrofitWarnings
6290	22	SR-1321 (Avent Ferry Rd)	Ivy Commons Dr									1				RetrofitWarnings
6291	22	SR-1321 (Avent Ferry Rd)	Avery Close Apartments (2508 Avent Ferry Rd) North Entrance									1				RetrofitWarnings
23967	23	SR-1321 (Avent Ferry Rd)	Lake Raleigh Rd									1				RetrofitWarnings
23966	23	SR-1321 (Avent Ferry Rd)	Lake Raleigh Rd									1				RetrofitWarnings
1234	24	SR-1321 (Avent Ferry Rd)	Varsity Dr										1			Type2A
1232	24	SR-1321 (Avent Ferry Rd)	Varsity Dr									1				RetrofitWarnings
1233	24	SR-1321 (Avent Ferry Rd)	Varsity Dr									1				RetrofitWarnings
1235	24	SR-1321 (Avent Ferry Rd)	Varsity Dr									1				RetrofitWarnings
1236	24	SR-1321 (Avent Ferry Rd)	Varsity Dr									1				RetrofitWarnings
1237	24	SR-1321 (Avent Ferry Rd)	Varsity Dr									1				RetrofitWarnings
1238	24	SR-1321 (Avent Ferry Rd)	Varsity Dr									1				RetrofitWarnings
1231	25	SR-1321 (Avent Ferry Rd)	Lilley Ct										1			Type1Modified
1230	25	SR-1321 (Avent Ferry Rd)	Lilley Ct										1			Type1Modified
1085	26	SR-1321 (Avent Ferry Rd)	SR-4746 (Centennial Pkwy)									1				RetrofitWarnings
1087	26	SR-1321 (Avent Ferry Rd)	SR-4746 (Centennial Pkwy)									1				RetrofitWarnings
1086	26	SR-1321 (Avent Ferry Rd)	SR-4746 (Centennial Pkwy)									1				RetrofitWarnings
1084	26	SR-1321 (Avent Ferry Rd)	Champion Ct									1				RetrofitWarnings
1083	26	SR-1321 (Avent Ferry Rd)	Champion Ct									1				RetrofitWarnings
1094	27	SR-1321 (Avent Ferry Rd)	Sammy's Tap / Burger King (2235 / 2241 Avent Ferry Rd) Entrance										1			Type1Modified
1082	27	SR-1321 (Avent Ferry Rd)	Avent Ferry Technology Center (2114 Avent Ferry Rd) South Entrance									1				RetrofitWarnings
1081	27	SR-1321 (Avent Ferry Rd)	Avent Ferry Technology Center (2114 Avent Ferry Rd) South Entrance									1				RetrofitWarnings
1095	27	SR-1321 (Avent Ferry Rd)	Sammy's Tap / Burger King (2235 / 2241 Avent Ferry Rd) Entrance										1			Type1Modified
1093	28	SR-1321 (Avent Ferry Rd)	Brueggers Bagels (2231 Avent Ferry Rd)										1			Type1Modified
1092	28	SR-1321 (Avent Ferry Rd)	Brueggers Bagels (2231 Avent Ferry Rd)										1			Type1Modified
1080	28	SR-1321 (Avent Ferry Rd)	Avent Ferry Technology Center (2114 Avent Ferry Rd) Main Entrance										1			Type1Modified
1079	28	SR-1321 (Avent Ferry Rd)	Avent Ferry Technology Center (2114 Avent Ferry Rd) Main Entrance										1			Type1
1078	29	SR-1321 (Avent Ferry Rd)	Avent Ferry Residence Halls (2110 Avent Ferry Rd)										1			Type1
1077	29	SR-1321 (Avent Ferry Rd)	Avent Ferry Residence Halls (2110 Avent Ferry Rd)										1			Type1
1076	29	SR-1321 (Avent Ferry Rd)	El Cerro Mexican Restaurant (2217 Avent Ferry Rd)										1			Type1Modified
1075	29	SR-1321 (Avent Ferry Rd)	El Cerro Mexican Restaurant (2217 Avent Ferry Rd)										1			Standard - 848.06
1074	30	SR-1321 (Avent Ferry Rd)	ABC Liquor Store (2109 Avent Ferry Rd)										1			Type1Modified
1073	30	SR-1321 (Avent Ferry Rd)	ABC Liquor Store (2109 Avent Ferry Rd)										1			Type1Modified
1072	31	SR-1321 (Avent Ferry Rd)	Papa Johns (2101 Avent Ferry Rd)									1				RetrofitWarnings
1071	31	SR-1321 (Avent Ferry Rd)	Papa Johns (2101 Avent Ferry Rd)									1				RetrofitWarnings
14625	32	SR-4363 (Martin Luther King Jr Blvd)	Raleigh Business & Technology Center (900 S Wilmington St)									1				RetrofitWarnings
14626	32	SR-4363 (Martin Luther King Jr Blvd)	Raleigh Business & Technology Center (900 S Wilmington St)										1			Type1B
14623	33	SR-4363 (Martin Luther King Jr Blvd)	S Salisbury St									1				RetrofitWarnings
14622	33	SR-4363 (Martin Luther King Jr Blvd)	S Salisbury St									1				RetrofitWarnings
14621	33	SR-4363 (Martin Luther King Jr Blvd)	S Salisbury St									1				RetrofitWarnings
14624	33	SR-4363 (Martin Luther King Jr Blvd)	S Salisbury St									1				RetrofitWarnings
14628	33	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St									1				RetrofitWarnings
14627	33	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St									1				RetrofitWarnings
14630	33	SR-4363 (Martin Luther King Jr Blvd)	S Salisbury St									1				RetrofitWarnings
14629	33	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St									1				RetrofitWarnings
14632	34	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St									1				RetrofitWarnings
14620	34	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St										1			Type3Modified
14631	34	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St										1			Type8
14634	34	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St									1				RetrofitWarnings
14633	34	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St									1				RetrofitWarnings
14618	34	SR-4363 (Martin Luther King Jr Blvd)	S Wilmington St										1			Standard - 848.06
14636	35	SR-4363 (Martin Luther King Jr Blvd)	Shaw University International Studies (130 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14635	35	SR-4363 (Martin Luther King Jr Blvd)	Shaw University International Studies (130 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14637	36	SR-4363 (Martin Luther King Jr Blvd)	SR-3670 (S Blount St)	16	10										1	Remove Ramp
14638	36	SR-4363 (Martin Luther King Jr Blvd)	SR-3670 (S Blount St)									1				RetrofitWarnings
14640	36	SR-4363 (Martin Luther King Jr Blvd)	SR-3670 (S Blount St)									1				RetrofitWarnings
14614	36	SR-4363 (Martin Luther King Jr Blvd)	SR-3670 (S Blount St)									1				RetrofitWarnings
14615	36	SR-4363 (Martin Luther King Jr Blvd)	SR-3670 (S Blount St)									1				RetrofitWarnings
14616	36	SR-4363 (Martin Luther King Jr Blvd)	SR-3670 (S Blount St)									1				RetrofitWarnings
14617	36	SR-4363 (Martin Luther King Jr Blvd)	SR-3670 (S Blount St)									1				RetrofitWarnings
Sub-Total				**16**	**10**	**0**	**0**	**0**	**0**	**0**	**0**	**40**	**19**	**0**	**1**	

SUMMARY OF QUANTITIES – WAKE COUNTY - RALEIGH

Sheet No.
14

Municipality: Raleigh
Project Number: R-5785I
WBS Number: 44915.3.15
County: Wake

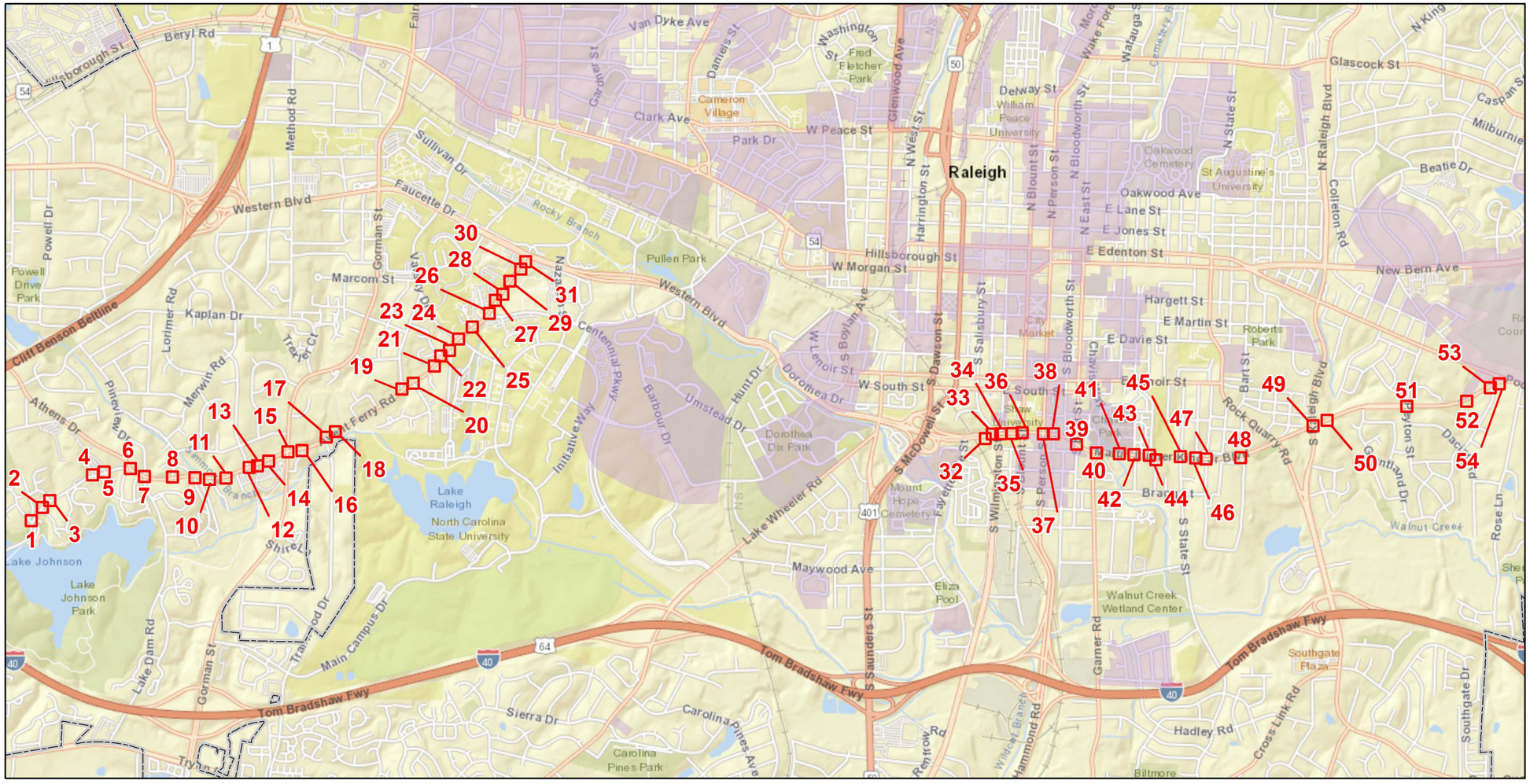
Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E 2'-6" Concrete Curb & Gutter LF	2591000000-E 4" Concrete Sidewalk SY	2738000000-E Remove Sidewalk SY	2830000000-N Adjustment of Manholes EA	2845000000-N Adjustment of Meter Boxes or Valve Boxes EA	4116100000-N Relocate Sign Type E EA	4695000000-E 8" X 90 MIL White Thermo LF	4860000000-E 8" Line Removal LF	2600000000-N Retrofit Existing Curb Ramps EA	2613000000-N Remove and Replace Curb Ramps EA	2605000000-N Concrete Curb Ramps EA	2759000000-N Remove Curb Ramps EA	Improvement Type
14639	36	SR-4363 (Martin Luther King Jr Blvd)	SR-3670 (S Blount St)									1				RetrofitWarnings
14643	37	SR-4363 (Martin Luther King Jr Blvd)	SR-2026 (S Person St)									1				RetrofitWarnings
14644	37	SR-4363 (Martin Luther King Jr Blvd)	SR-2026 (S Person St)									1				RetrofitWarnings
14641	37	SR-4363 (Martin Luther King Jr Blvd)	SR-2026 (S Person St)									1				RetrofitWarnings
14613	37	SR-4363 (Martin Luther King Jr Blvd)	SR-2026 (S Person St)									1				RetrofitWarnings
14612	37	SR-4363 (Martin Luther King Jr Blvd)	SR-2026 (S Person St)									1				RetrofitWarnings
14611	37	SR-4363 (Martin Luther King Jr Blvd)	SR-2026 (S Person St)									1				RetrofitWarnings
14610	37	SR-4363 (Martin Luther King Jr Blvd)	SR-2026 (S Person St)									1				RetrofitWarnings
14642	37	SR-4363 (Martin Luther King Jr Blvd)	SR-2026 (S Person St)									1				RetrofitWarnings
14606	38	SR-4363 (Martin Luther King Jr Blvd)	Ellington St									1				RetrofitWarnings
14607	38	SR-4363 (Martin Luther King Jr Blvd)	Ellington St	15	5										1	Remove Ramp
14608	38	SR-4363 (Martin Luther King Jr Blvd)	Ellington St									1				RetrofitWarnings
14609	38	SR-4363 (Martin Luther King Jr Blvd)	Ellington St	15	7										1	Remove Ramp
14645	38	SR-4363 (Martin Luther King Jr Blvd)	Ellington St									1				RetrofitWarnings
14646	38	SR-4363 (Martin Luther King Jr Blvd)	Ellington St	15	5										1	Remove Ramp
14647	38	SR-4363 (Martin Luther King Jr Blvd)	Ellington St									1				RetrofitWarnings
14648	38	SR-4363 (Martin Luther King Jr Blvd)	Ellington St	16	7										1	Remove Ramp
14600	39	SR-4363 (Martin Luther King Jr Blvd)	S East St									1				RetrofitWarnings
14599	39	SR-4363 (Martin Luther King Jr Blvd)	S East St									1				RetrofitWarnings
14598	39	SR-4363 (Martin Luther King Jr Blvd)	S East St		3							1				RetrofitWarnings
14597	39	SR-4363 (Martin Luther King Jr Blvd)	S East St	14	9										1	Remove Ramp
14596	39	SR-4363 (Martin Luther King Jr Blvd)	S East St									1				RetrofitWarnings
14595	39	SR-4363 (Martin Luther King Jr Blvd)	S East St									1				RetrofitWarnings
14594	39	SR-4363 (Martin Luther King Jr Blvd)	S East St									1				RetrofitWarnings
14593	39	SR-4363 (Martin Luther King Jr Blvd)	S East St									1				RetrofitWarnings
14591	40	SR-4363 (Martin Luther King Jr Blvd)	Garner Rd									1				RetrofitWarnings
14590	40	SR-4363 (Martin Luther King Jr Blvd)	Garner Rd									1				RetrofitWarnings
14601	40	SR-4363 (Martin Luther King Jr Blvd)	Garner Rd									1				RetrofitWarnings
14592	40	SR-4363 (Martin Luther King Jr Blvd)	Garner Rd									1				RetrofitWarnings
14588	41	SR-4363 (Martin Luther King Jr Blvd)	Chavis Center (505 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14589	41	SR-4363 (Martin Luther King Jr Blvd)	Chavis Center (505 Martin Luther King Jr Blvd)										1			Type1Modified
14587	42	SR-4363 (Martin Luther King Jr Blvd)	Chavis Way / Holmes St	5	3				1				1			Type1Modified
14585	42	SR-4363 (Martin Luther King Jr Blvd)	Chavis Way / Holmes St										1			Type3Modified
14584	42	SR-4363 (Martin Luther King Jr Blvd)	Chavis Way / Holmes St	14	6										1	Remove Ramp
14583	42	SR-4363 (Martin Luther King Jr Blvd)	Chavis Way / Holmes St									1				RetrofitWarnings
14582	42	SR-4363 (Martin Luther King Jr Blvd)	Chavis Way / Holmes St	11	5										1	Remove Ramp
14577	43	SR-4363 (Martin Luther King Jr Blvd)	Haywood St	15	8										1	Remove Ramp
14576	43	SR-4363 (Martin Luther King Jr Blvd)	Haywood St									1				RetrofitWarnings
14575	43	SR-4363 (Martin Luther King Jr Blvd)	Haywood St	12		12									1	Remove Ramp
14574	43	SR-4363 (Martin Luther King Jr Blvd)	Haywood St									1				RetrofitWarnings
14578	43	SR-4363 (Martin Luther King Jr Blvd)	Haywood St	12	6										1	Remove Ramp
14581	44	SR-4363 (Martin Luther King Jr Blvd)	Gregg St	15	6										1	Remove Ramp
14580	44	SR-4363 (Martin Luther King Jr Blvd)	Gregg St									1				RetrofitWarnings
14579	44	SR-4363 (Martin Luther King Jr Blvd)	Gregg St									1				RetrofitWarnings
14571	45	SR-4363 (Martin Luther King Jr Blvd)	S State St	5	3								1			Standard - 848.06
14570	45	SR-4363 (Martin Luther King Jr Blvd)	S State St	16	8										1	Remove Ramp
14569	45	SR-4363 (Martin Luther King Jr Blvd)	S State St		6								1			Type2AModified
14568	45	SR-4363 (Martin Luther King Jr Blvd)	S State St	12											1	Remove Ramp
14567	45	SR-4363 (Martin Luther King Jr Blvd)	S State St	5	6								1			Type2AModified
14566	45	SR-4363 (Martin Luther King Jr Blvd)	S State St	12											1	Remove Ramp
14563	46	SR-4363 (Martin Luther King Jr Blvd)	Quarry St									1				RetrofitWarnings
14564	46	SR-4363 (Martin Luther King Jr Blvd)	Quarry St									1				RetrofitWarnings
14565	46	SR-4363 (Martin Luther King Jr Blvd)	Quarry St										1			Type3
14562	46	SR-4363 (Martin Luther King Jr Blvd)	Quarry St									1				RetrofitWarnings
14559	47	SR-4363 (Martin Luther King Jr Blvd)	Coleman St									1				RetrofitWarnings
14560	47	SR-4363 (Martin Luther King Jr Blvd)	Coleman St									1				RetrofitWarnings
14561	47	SR-4363 (Martin Luther King Jr Blvd)	Coleman St									1				RetrofitWarnings
14554	47	SR-4363 (Martin Luther King Jr Blvd)	Coleman St										1			Standard - 848.06
14555	47	SR-4363 (Martin Luther King Jr Blvd)	Coleman St									1				RetrofitWarnings
14556	47	SR-4363 (Martin Luther King Jr Blvd)	Coleman St									1				RetrofitWarnings
14557	47	SR-4363 (Martin Luther King Jr Blvd)	Coleman St										1			Standard - 848.06
14558	47	SR-4363 (Martin Luther King Jr Blvd)	Coleman St									1				RetrofitWarnings
14553	48	SR-4363 (Martin Luther King Jr Blvd)	Vardaman St										1			Type1Modified
14552	48	SR-4363 (Martin Luther King Jr Blvd)	Vardaman St										1			Type1Modified
7898	49	SR-4363 (Martin Luther King Jr Blvd)	SR-2921 (S Raleigh Blvd)	16	9										1	Remove Ramp
7897	49	SR-4363 (Martin Luther King Jr Blvd)	SR-2921 (S Raleigh Blvd)	16	7										1	Remove Ramp
7896	49	SR-4363 (Martin Luther King Jr Blvd)	SR-2921 (S Raleigh Blvd)									1				RetrofitWarnings
7895	49	SR-4363 (Martin Luther King Jr Blvd)	SR-2921 (S Raleigh Blvd)									1				RetrofitWarnings
23959	49	SR-4363 (Martin Luther King Jr Blvd)	SR-2921 (S Raleigh Blvd)	16	9										1	Remove Ramp
7894	49	SR-4363 (Martin Luther King Jr Blvd)	SR-2921 (S Raleigh Blvd)									1				RetrofitWarnings
7893	49	SR-4363 (Martin Luther King Jr Blvd)	SR-2921 (S Raleigh Blvd)									1				RetrofitWarnings
7892	49	SR-4363 (Martin Luther King Jr Blvd)	SR-2921 (S Raleigh Blvd)									1				RetrofitWarnings
Sub-Total				**257**	**118**	**12**	**0**	**0**	**1**	**0**	**0**	**44**	**11**	**0**	**17**	

SUMMARY OF QUANTITIES – WAKE COUNTY - RALEIGH

Sheet No.
15

Municipality: Raleigh
Project Number: R-5785I
WBS Number: 44915.3.15
County: Wake

Ramp ID	Inset Map Number	Route 1	Route 2	2549000000-E 2'-6" Concrete Curb & Gutter LF	2591000000-E 4" Concrete Sidewalk SY	2738000000-E Remove Sidewalk SY	2830000000-N Adjustment of Manholes EA	2845000000-N Adjustment of Meter Boxes or Valve Boxes EA	4116100000-N Relocate Sign Type E EA	4695000000-E 8" X 90 MIL White Thermo LF	4860000000-E 8" Line Removal LF	2600000000-N Retrofit Existing Curb Ramps EA	2613000000-N Remove and Replace Curb Ramps EA	2605000000-N Concrete Curb Ramps EA	2759000000-N Remove Curb Ramps EA	Improvement Type
14342	50	SR-4363 (Martin Luther King Jr Blvd)	Roses (1610 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14341	50	SR-4363 (Martin Luther King Jr Blvd)	Mount Peace Baptist Church (1601 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14340	50	SR-4363 (Martin Luther King Jr Blvd)	Mount Peace Baptist Church (1601 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14343	50	SR-4363 (Martin Luther King Jr Blvd)	Roses (1610 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14339	51	SR-4363 (Martin Luther King Jr Blvd)	Peyton St									1				RetrofitWarnings
14338	51	SR-4363 (Martin Luther King Jr Blvd)	Peyton St									1				RetrofitWarnings
14337	51	SR-4363 (Martin Luther King Jr Blvd)	Peyton St									1				RetrofitWarnings
14336	51	SR-4363 (Martin Luther King Jr Blvd)	Peyton St									1				RetrofitWarnings
14349	51	SR-4363 (Martin Luther King Jr Blvd)	Peyton St									1				RetrofitWarnings
14348	51	SR-4363 (Martin Luther King Jr Blvd)	Peyton St									1				RetrofitWarnings
14347	51	SR-4363 (Martin Luther King Jr Blvd)	Peyton St									1				RetrofitWarnings
14346	51	SR-4363 (Martin Luther King Jr Blvd)	Peyton St									1				RetrofitWarnings
14350	52	SR-4363 (Martin Luther King Jr Blvd)	South Central Church (2010 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14351	52	SR-4363 (Martin Luther King Jr Blvd)	South Central Church (2010 Martin Luther King Jr Blvd)									1				RetrofitWarnings
14335	53	SR-4363 (Martin Luther King Jr Blvd)	Glenbrook Dr	16	7										1	Remove Ramp
14334	53	SR-4363 (Martin Luther King Jr Blvd)	Glenbrook Dr										1			Type3Modified
14332	53	SR-4363 (Martin Luther King Jr Blvd)	Glenbrook Dr	13	5										1	Remove Ramp
14333	53	SR-4363 (Martin Luther King Jr Blvd)	Glenbrook Dr									1				RetrofitWarnings
14323	53	SR-4363 (Martin Luther King Jr Blvd)	Glenbrook Dr	10	6										1	Remove Ramp
14331	54	SR-4363 (Martin Luther King Jr Blvd)	Poole Rd										1			Type3Modified
14330	54	SR-4363 (Martin Luther King Jr Blvd)	Poole Rd	10	10										1	Remove Ramp
14324	54	SR-4363 (Martin Luther King Jr Blvd)	Poole Rd									1				RetrofitWarnings
14325	54	SR-4363 (Martin Luther King Jr Blvd)	Poole Rd									1				RetrofitWarnings
14326	54	SR-4363 (Martin Luther King Jr Blvd)	Poole Rd									1				RetrofitWarnings
14327	54	SR-4363 (Martin Luther King Jr Blvd)	Poole Rd	17	9										1	Remove Ramp
-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-	
Sub-Total				**66**	**37**	**13**	**0**	**0**	**0**	**0**	**0**	**18**	**2**	**0**	**5**	
Sub-Total for Raleigh				**380**	**183**	**25**	**1**	**0**	**2**	**0**	**0**	**130**	**55**	**0**	**26**	



Sheet No.
16

Curb Ramps To Be Repaired

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

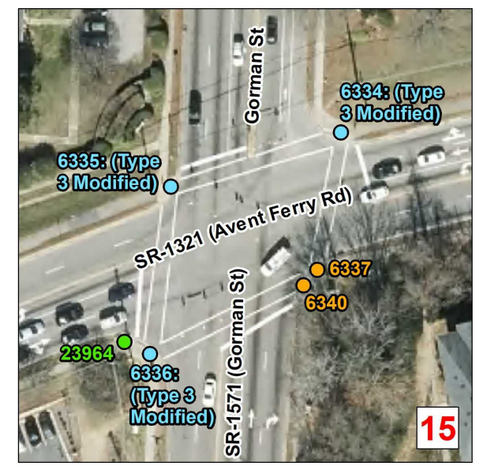
Municipal Boundary

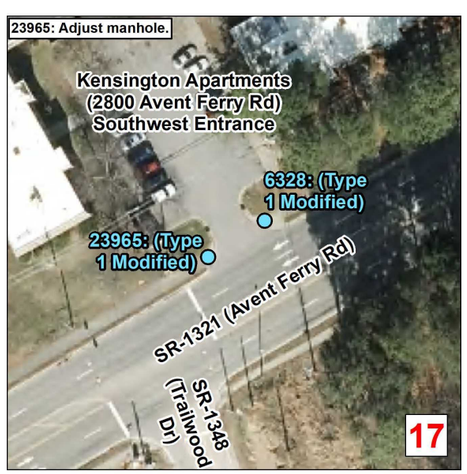
NCHPO Historic Boundary (NR, LHD, and DOE)

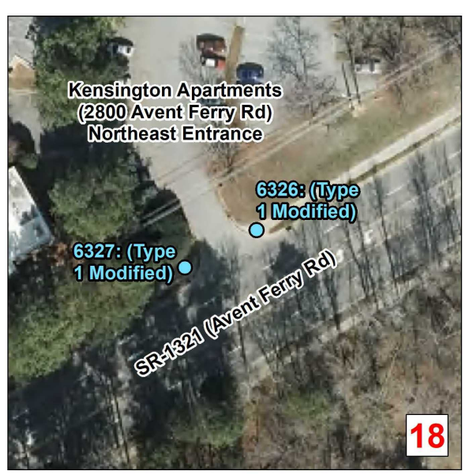
Municipality: Raleigh
TIP Number: R-5785 I
WBS Number: 44915.3.15
County: Wake

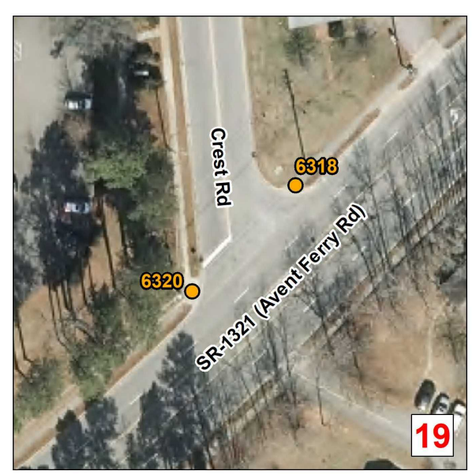
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

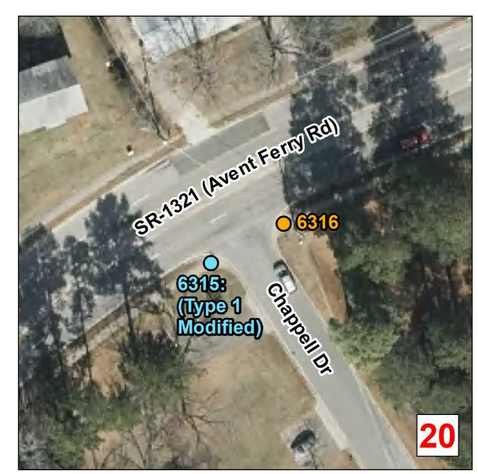
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO











Curb Ramps To Be Repaired

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

Municipal Boundary

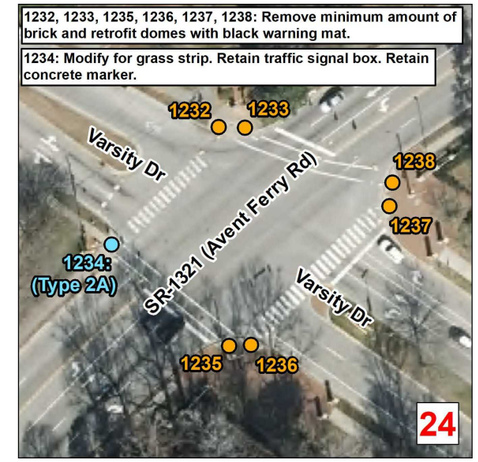
NCHPO Historic Boundary (NR, LHD, and DOE)

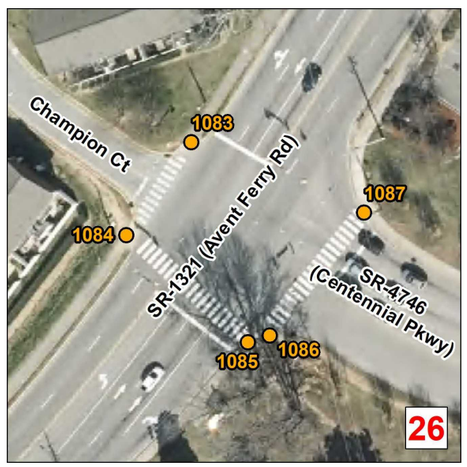
Municipality: Raleigh
TIP Number: R-5785 I
WBS Number: 44915.3.15
County: Wake

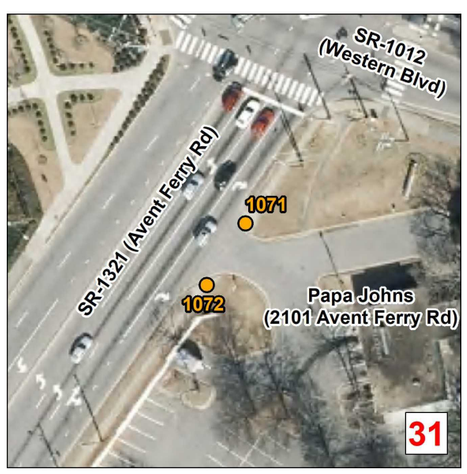
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

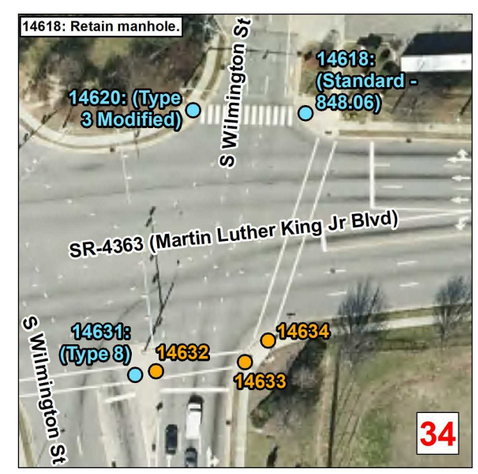
Source: NV5 Engineers and Consultants Inc, ESRI, NC OneMap, NCDOT, NCHPO

Sheet No.
18









Curb Ramps To Be Repaired

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

Municipal Boundary

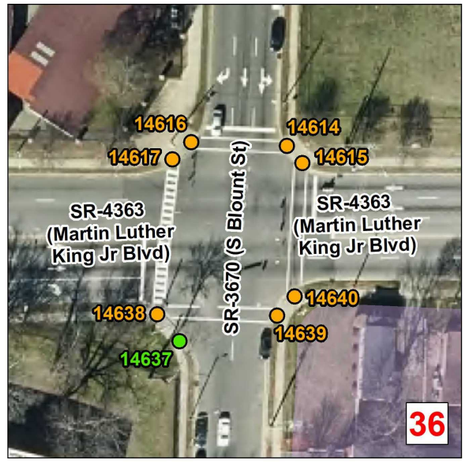
NCHPO Historic Boundary (NR, LHD, and DOE)

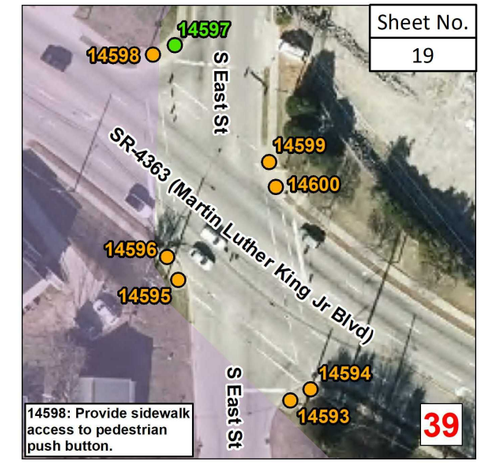
Municipality: Raleigh
TIP Number: R-5785 I
WBS Number: 44915.3.15
County: Wake

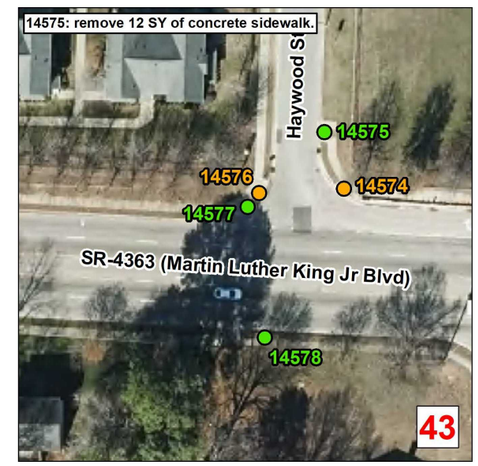
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

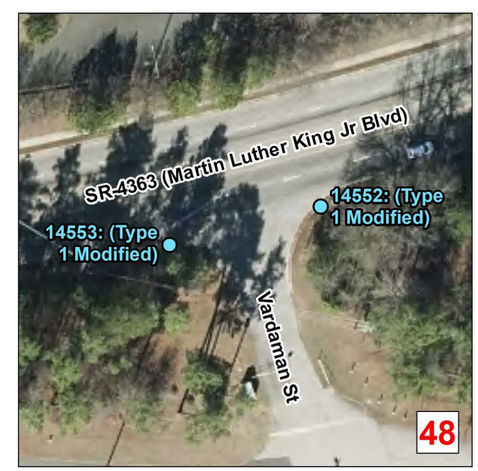
Source: NV5 Engineers and Consultants Inc, ESRI, NC OneMap, NCDOT, NCHPO

Sheet No.
19









Curb Ramps To Be Repaired

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

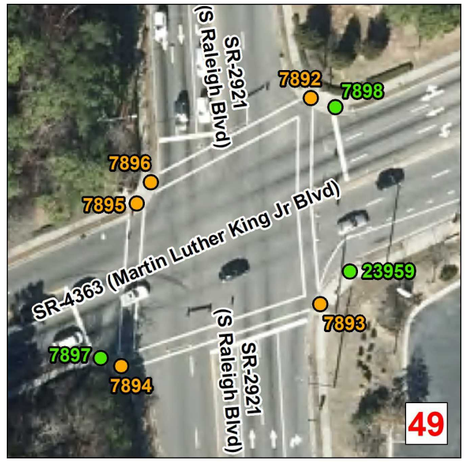
Municipal Boundary

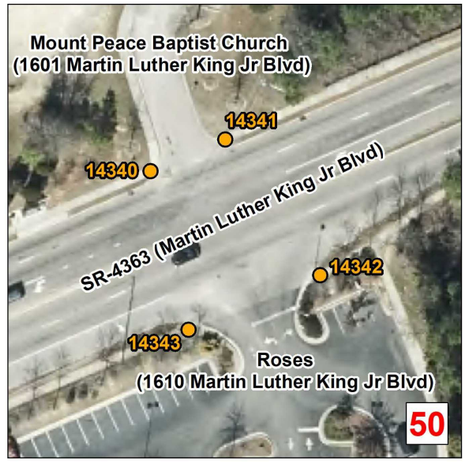
NCHPO Historic Boundary (NR, LHD, and DOE)

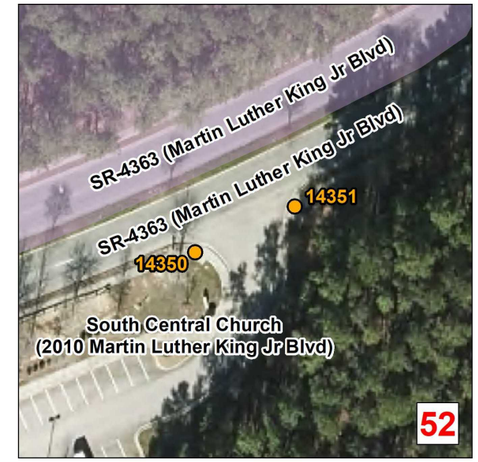
Municipality: Raleigh
TIP Number: R-5785 I
WBS Number: 44915.3.15
County: Wake

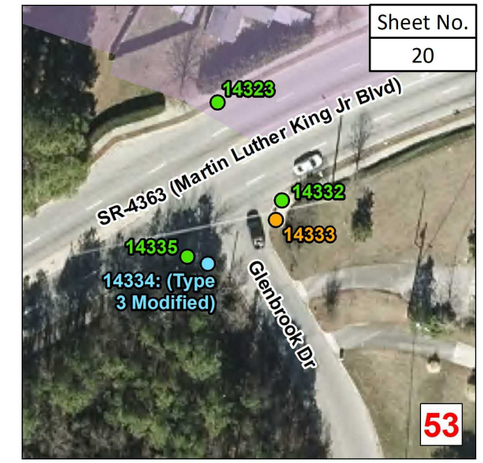
NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5

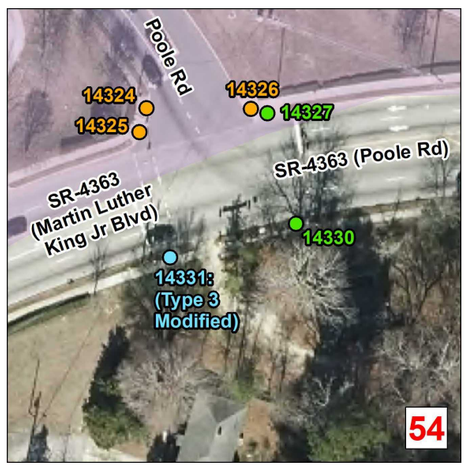
Source: NV5 Engineers and Consultants Inc, ESRI, NC OneMap, NCDOT, NCHPO











Curb Ramps To Be Repaired

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

Municipal Boundary

NCHPO Historic Boundary (NR, LHD, and DOE)

Municipality: Raleigh
TIP Number: R-5785 I
WBS Number: 44915.3.15
County: Wake

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5

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

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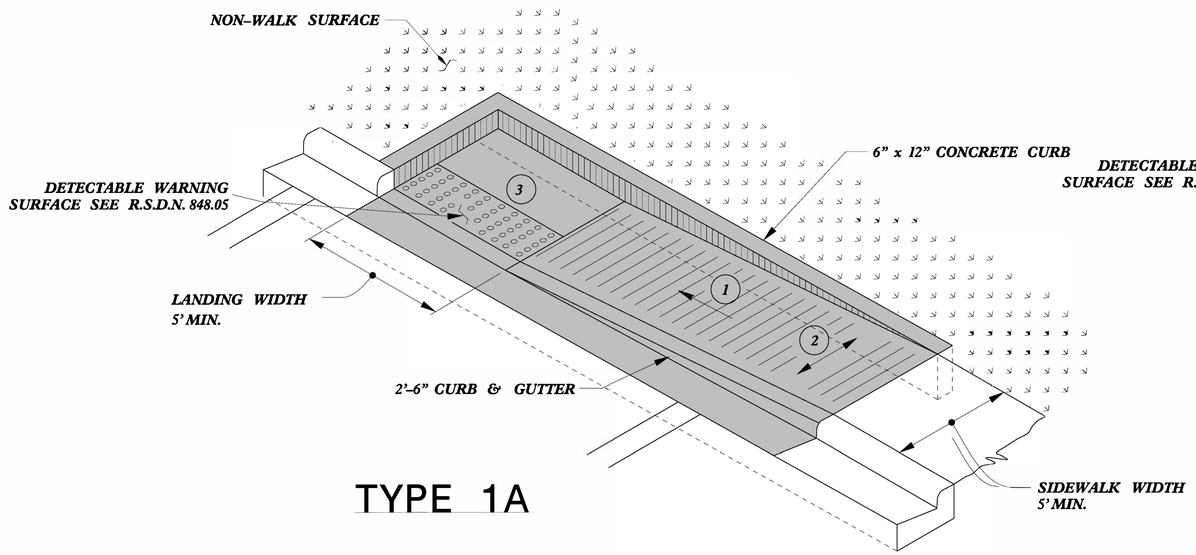
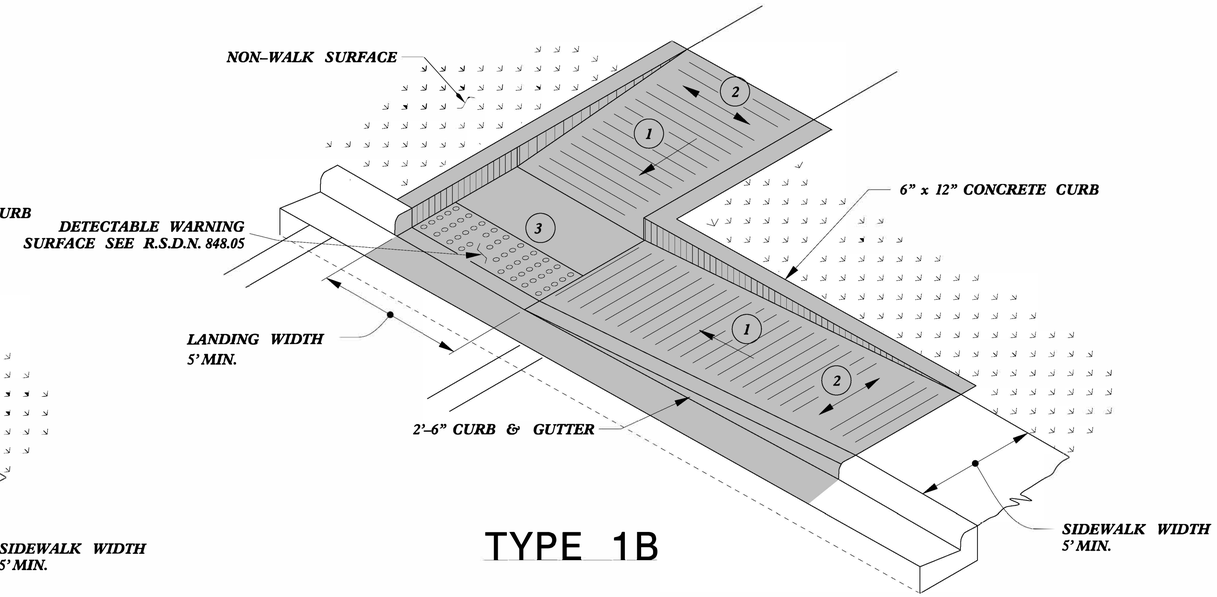
PROJECT REFERENCE NO.	SHEET NO.
R-5785I	21



TYPE 1A



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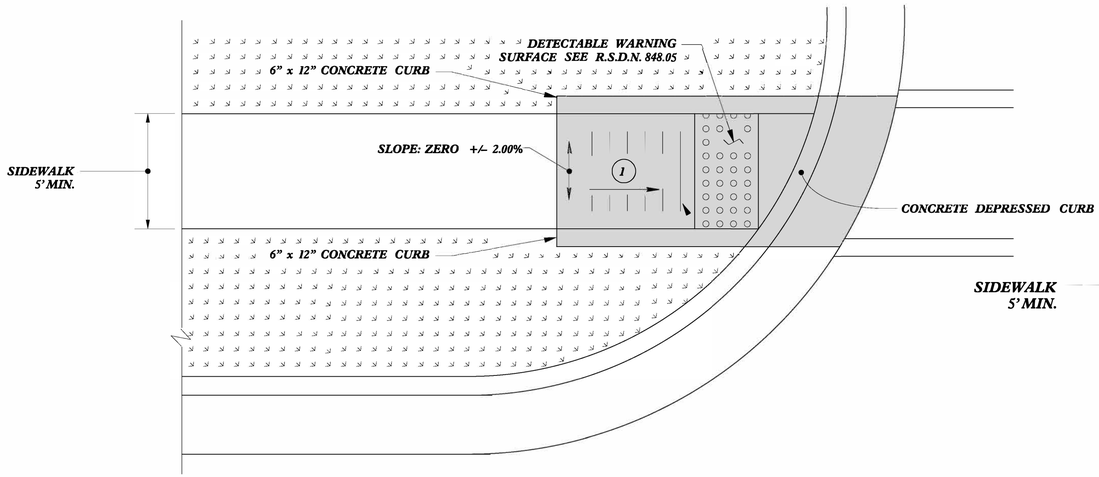

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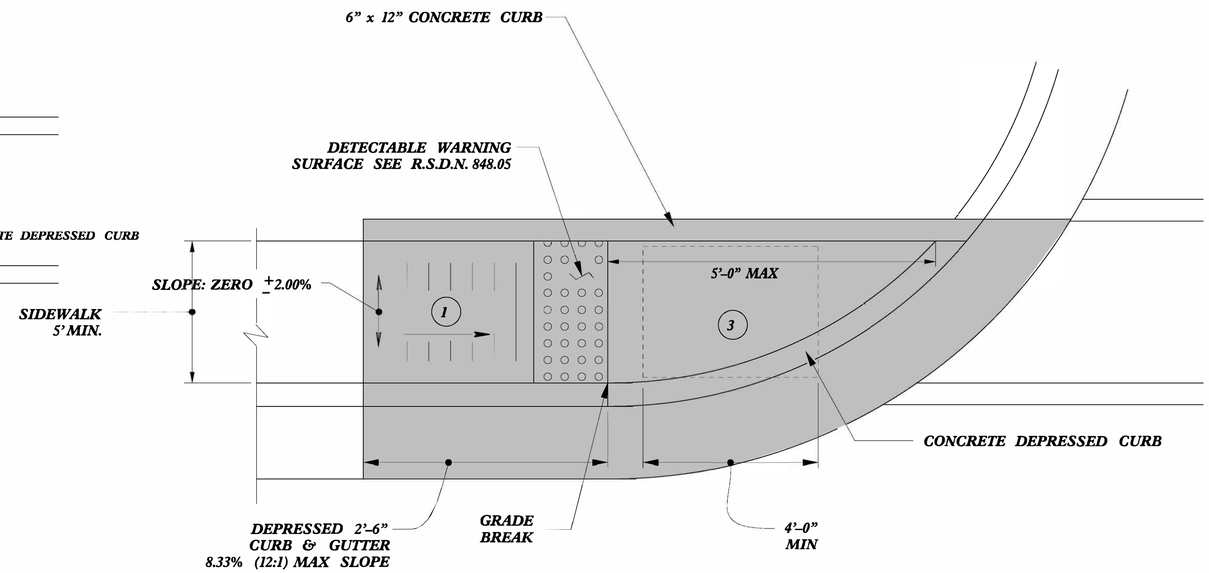

TYPE 1

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

NORTH CAROLINA PROFESSIONAL SEAL 022966 ENGINEER Joel S. Howerton

DocuSigned by: 7/16/2019

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

$$$$$SYSTEM$$$$$
$$$$$USERNAME$$$$$

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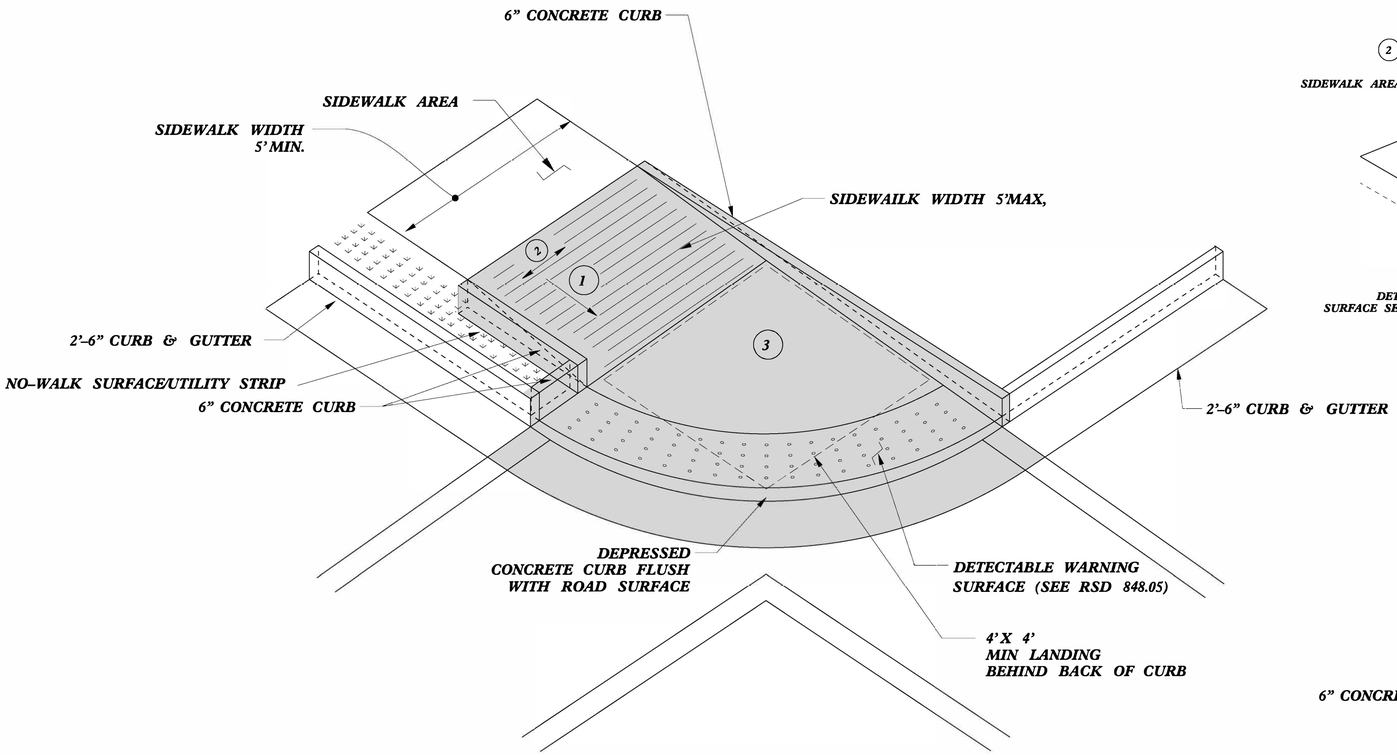
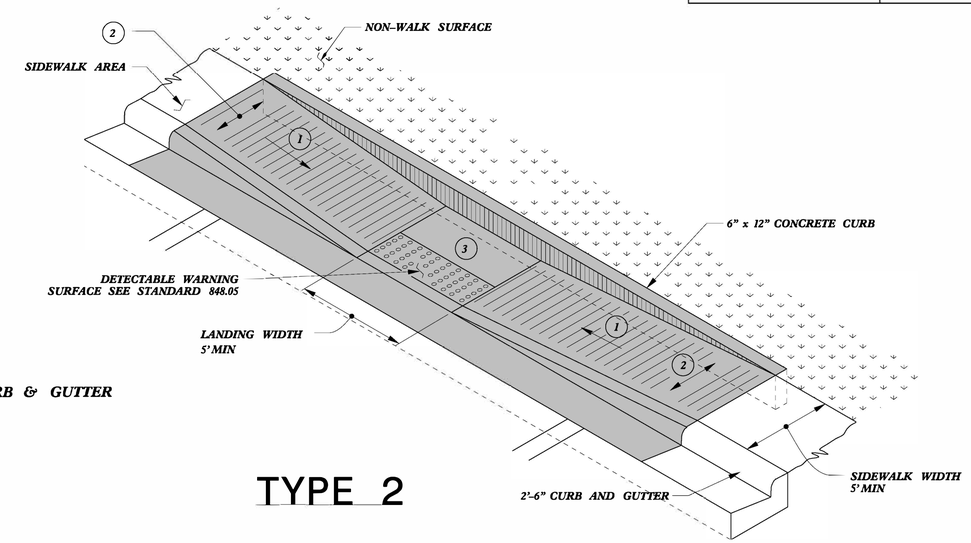
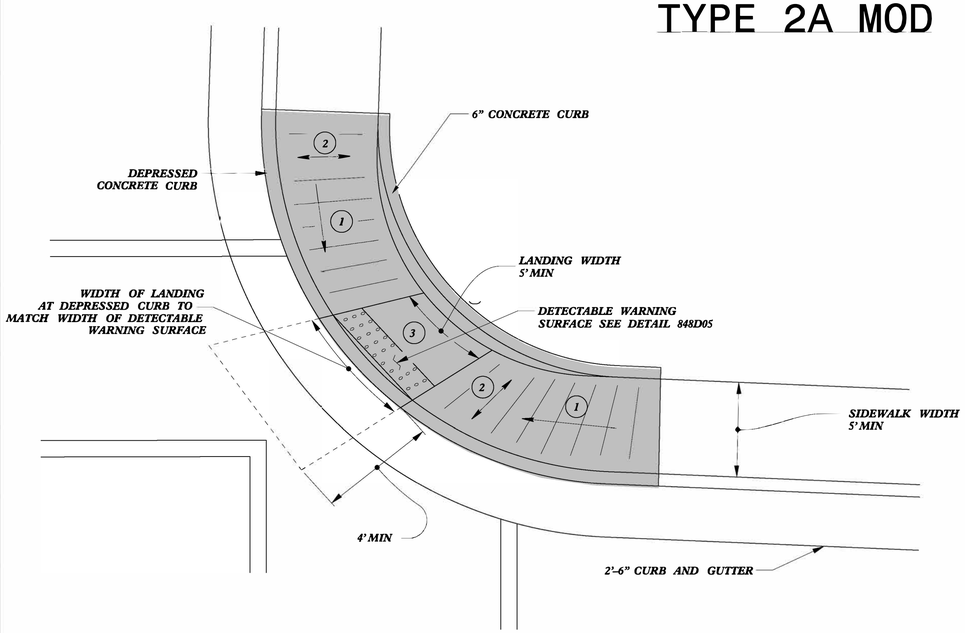
PROJECT REFERENCE NO.	SHEET NO.
R-5785I	22



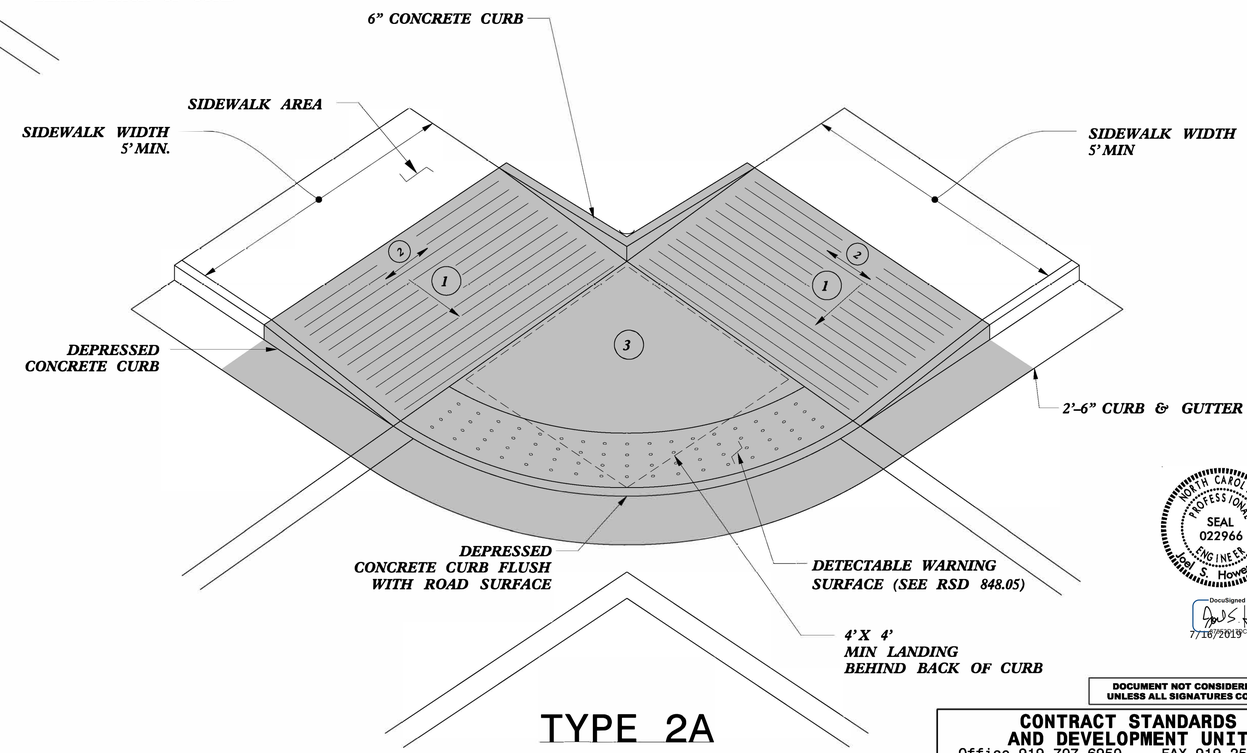
TYPE 2A MOD



TYPE 2



TYPE 2B



TYPE 2A

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

PAY LIMITS FOR 1 CURB RAMP

NORTH CAROLINA PROFESSIONAL SEAL 022966 ENGINEER John S. Howerton

DocuSigned by: 7/16/2019

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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

SYSTEM NAME $USERNAME$ $DGNFILE$

DocuSign Envelope ID: 5E84D94A-7C65-4736-AC96-D26AF8B76395

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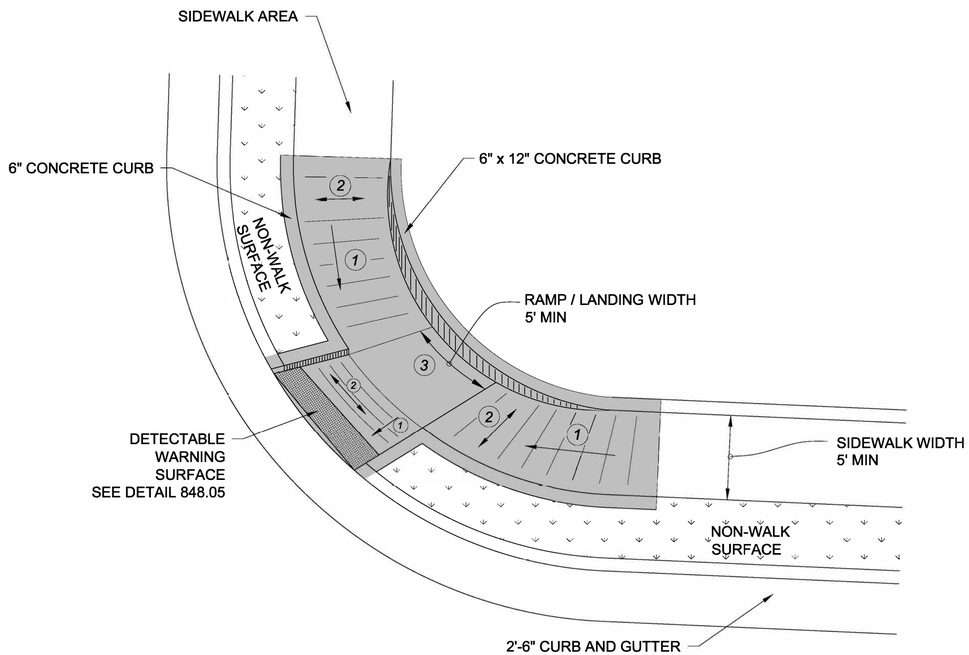
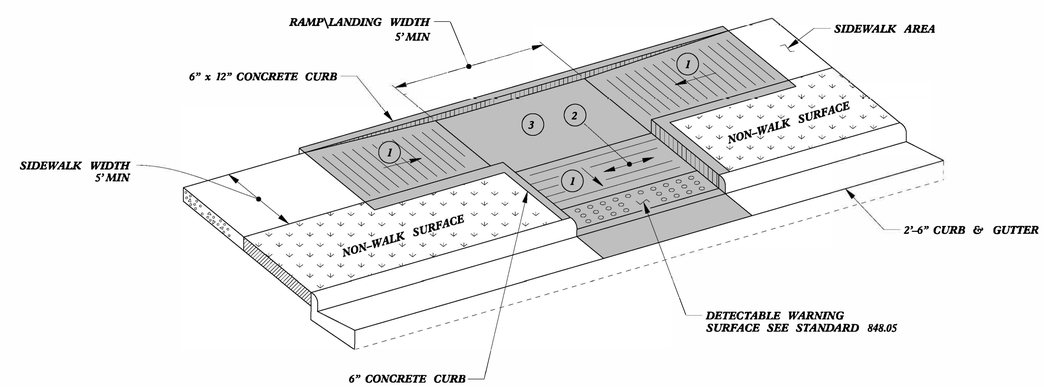
PROJECT REFERENCE NO.	SHEET NO.
R-5785I	23

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.*

NORTH CAROLINA PROFESSIONAL SEAL 022966 ENGINEER Joel S. Howerton

DocuSigned by: 6F3B3D1F7D3DC45F...
7/16/2019

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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

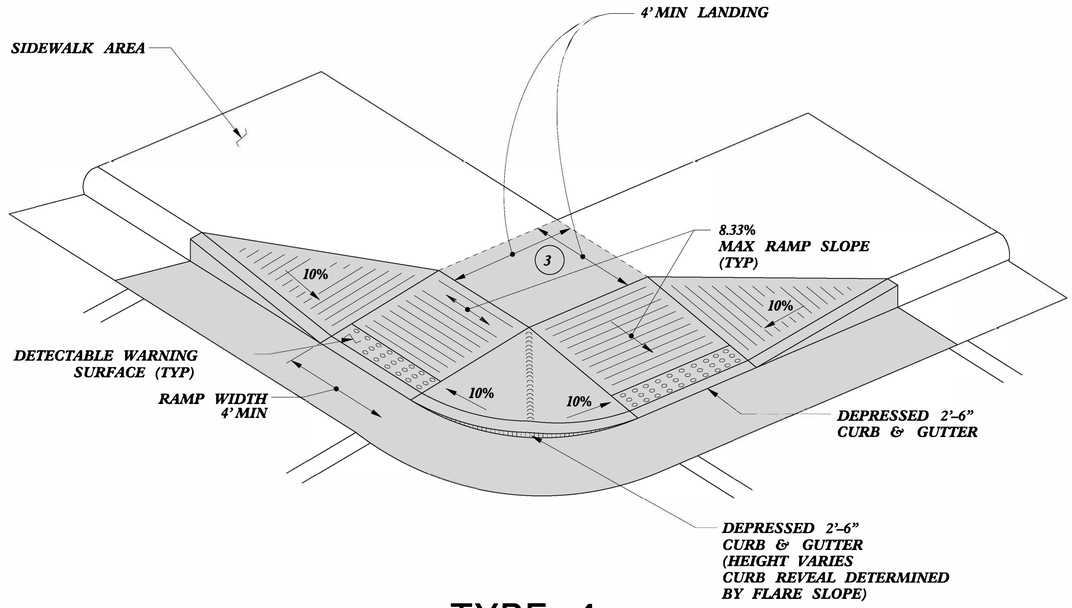
$$$$USERNAME$$$$
$$$$USERNAME$$$$

DocuSign Envelope ID: 5E84D94A-7C65-4736-AC96-D26AF8B76395

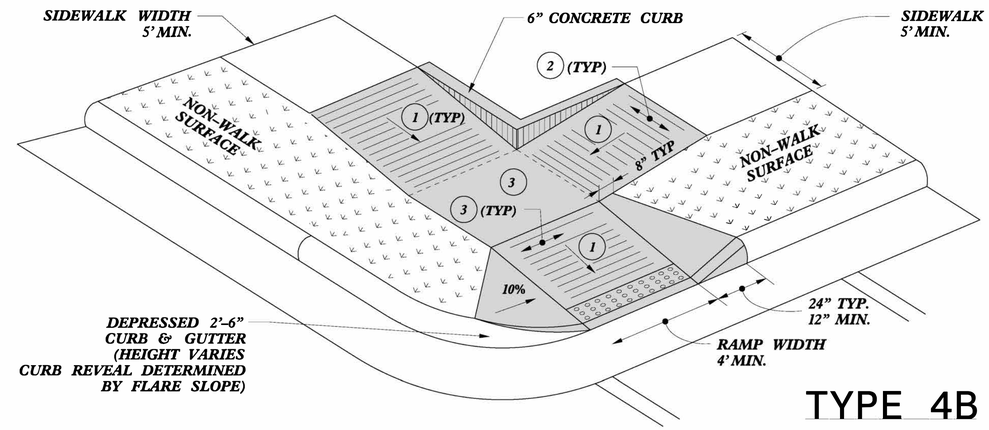
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-5785I	24

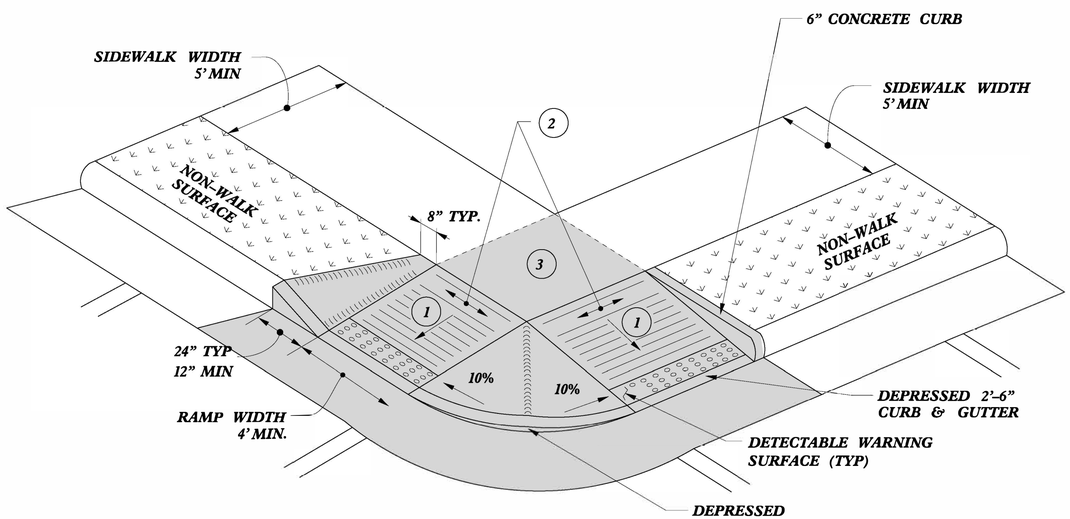
PAY LIMITS FOR 1 OR 2 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF TRUNCATED DOMES)



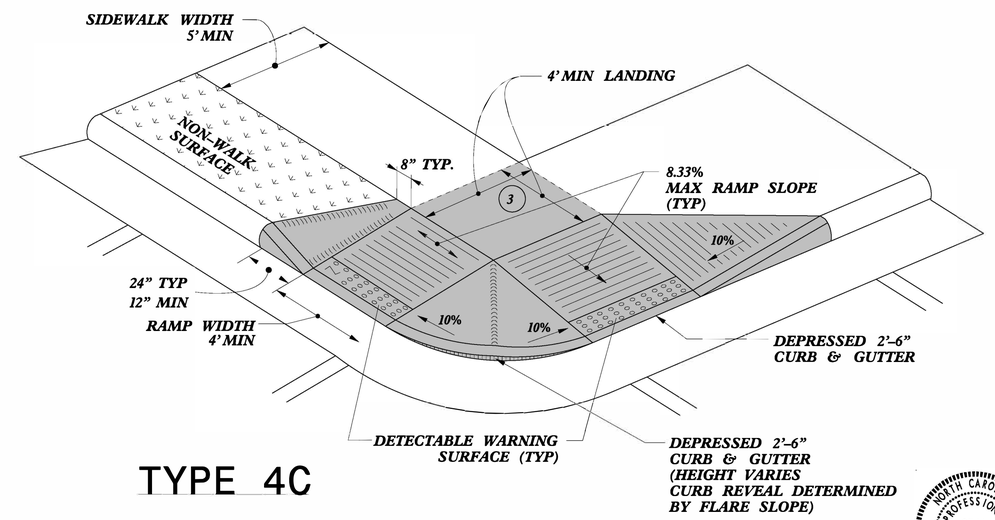
TYPE 4



TYPE 4B



TYPE 4A



TYPE 4C

NORTH CAROLINA PROFESSIONAL SEAL 022966 ENGINEER Joel S. Howerton

DocuSigned by: 373F3D1750C045F...
7/16/2019

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

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

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

CURB RAMPS

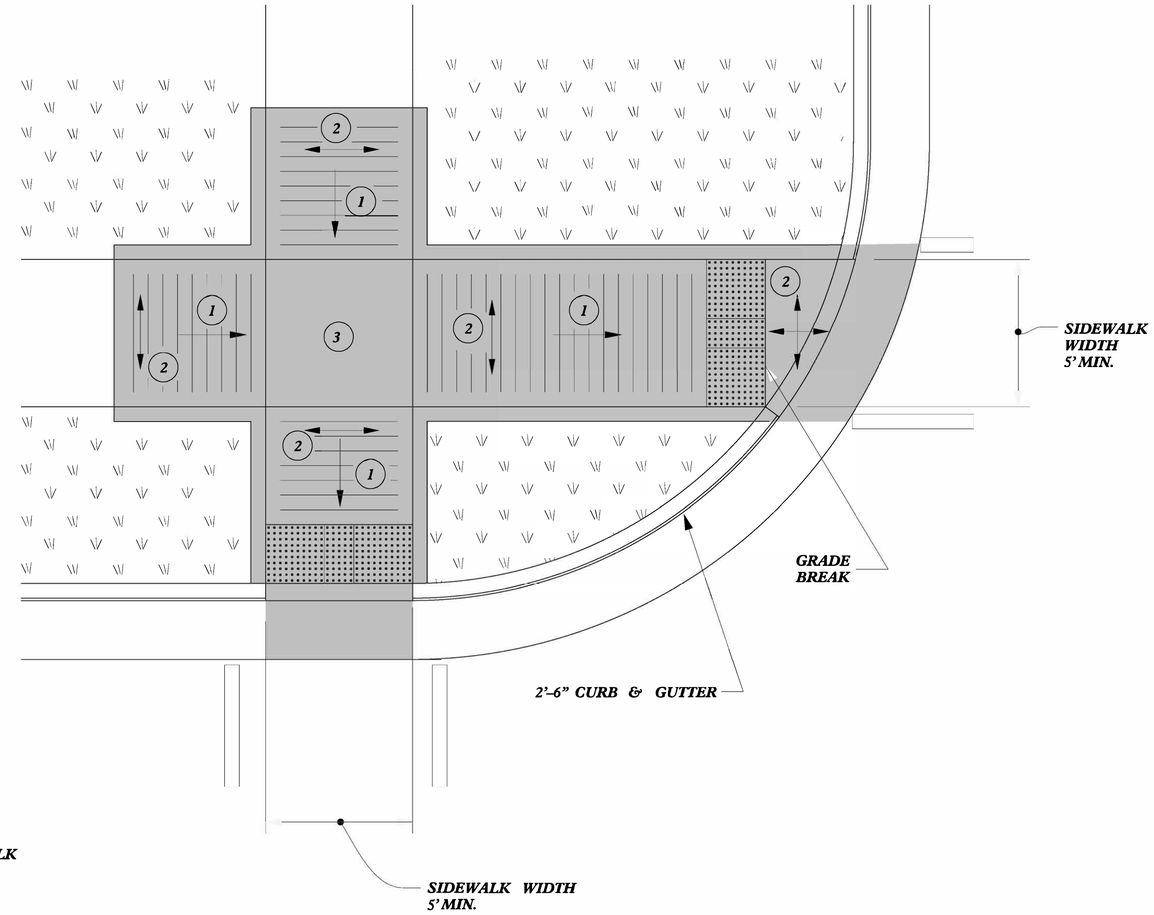
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC. stds/2012CurbRamp/CurbRampDetails.dgn

$$$

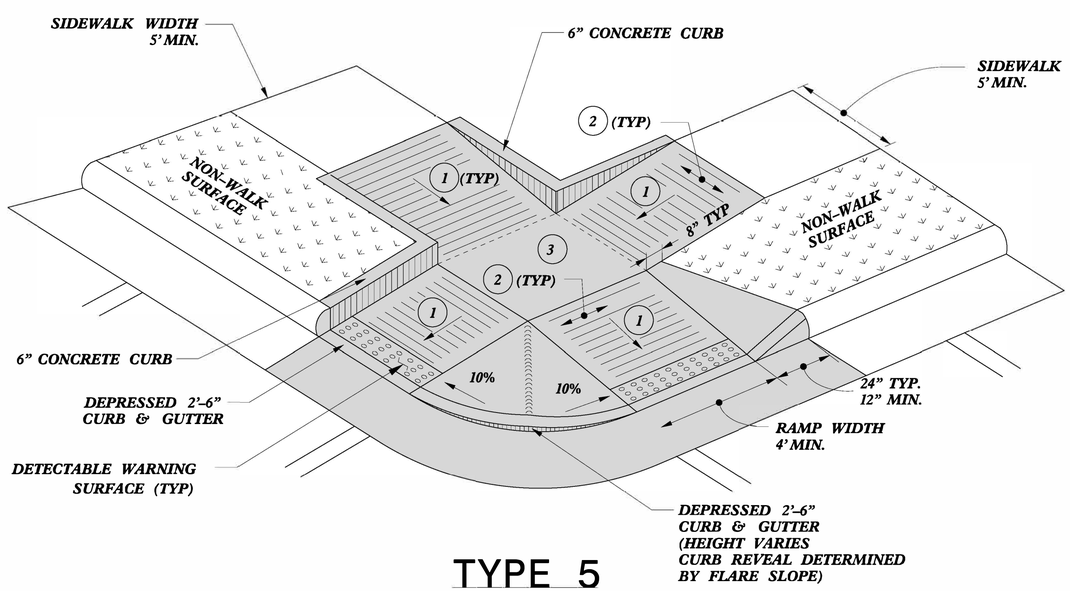
DocuSign Envelope ID: 5E84D94A-7C65-4736-AC96-D26AF8B76395

PROJECT REFERENCE NO.	SHEET NO.
R-5785I	25

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



TYPE 5A



TYPE 5

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

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

NORTH CAROLINA PROFESSIONAL SEAL 022966 ENGINEER Joel S. Howerton

DocuSigned by: 7/16/2019

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

CURB RAMPS

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

5/14/99

$$$$SYTME$$$$
$$$$CNUS$$$$
$$$$USRNAME$$$$

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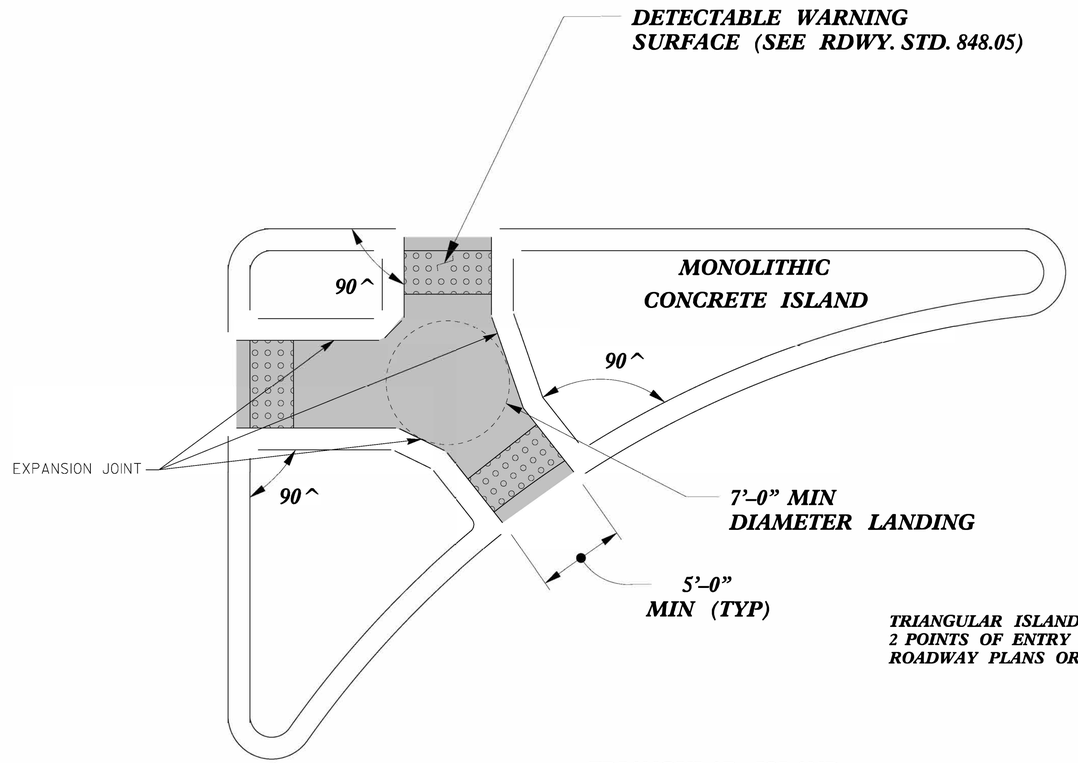
PROJECT REFERENCE NO.	SHEET NO.
R-5785I	26

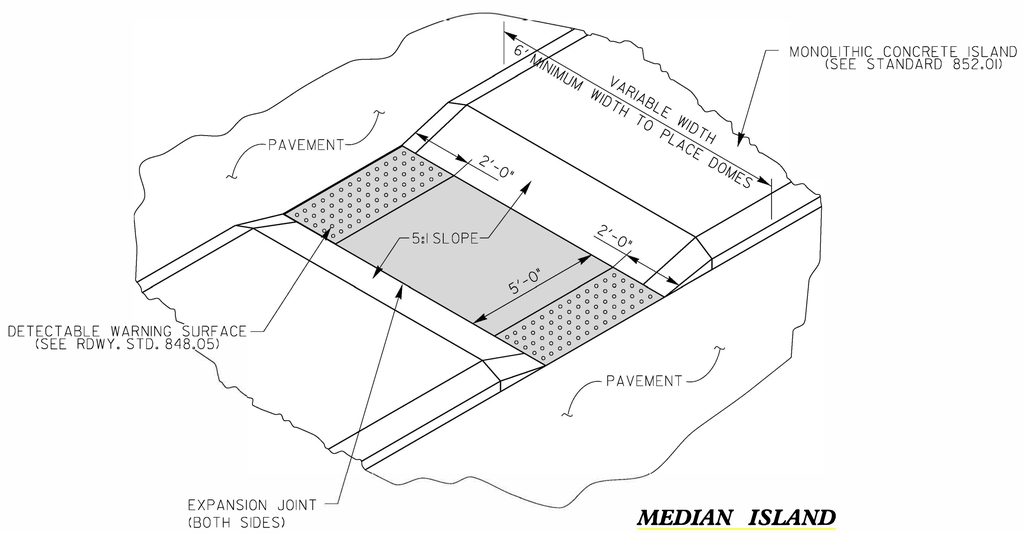
PAY LIMITS FOR 2 OR 3 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF TRUNCATED DOMES)



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.

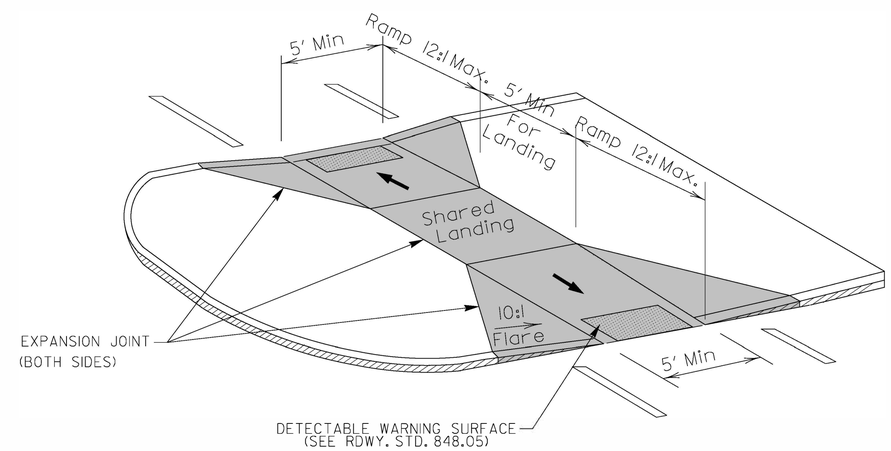
TRIANGULAR ISLAND WITH CUT THROUGH

TYPE 6



MEDIAN ISLAND WITH CUT THROUGH

TYPE 7



MEDIAN ISLAND CURB RAMPS

TYPE 8

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NORTH CAROLINA PROFESSIONAL SEAL 022966 ENGINEER Joel S. Howerton

DocuSigned by: 4F9E9D7D0DC45F... 7/16/2019

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

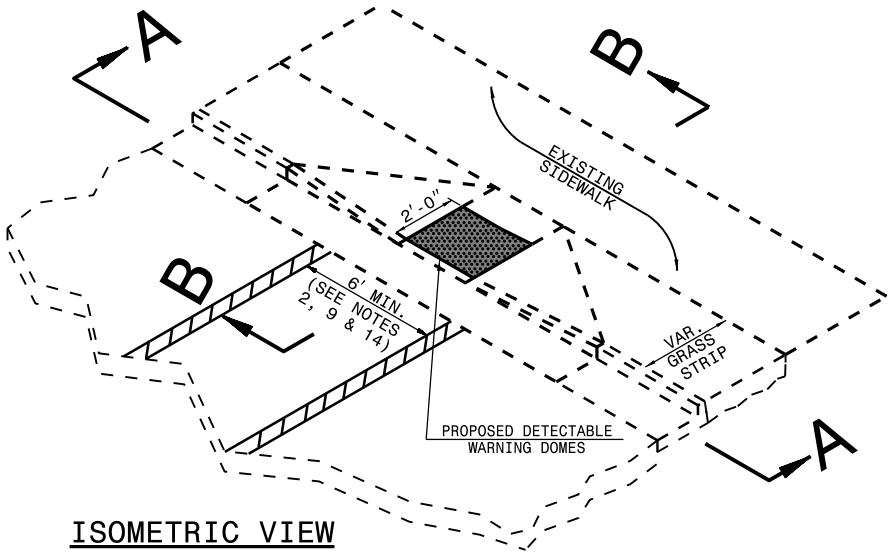
CURB RAMPS

Median or Turn Lane Islands

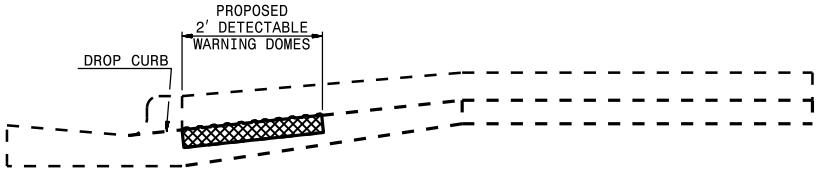
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC. stds/2012CurbRamp/CurbRampDetails.dgn

SYSTIME$$$$$$$$
USERNAME$$$$$$$$

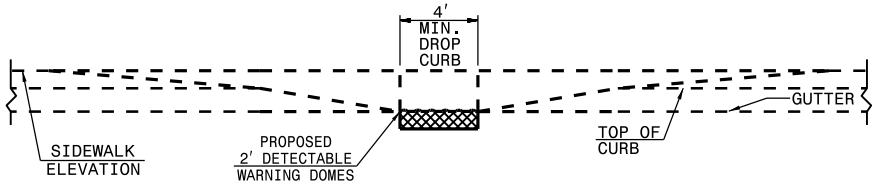
RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP



ISOMETRIC VIEW

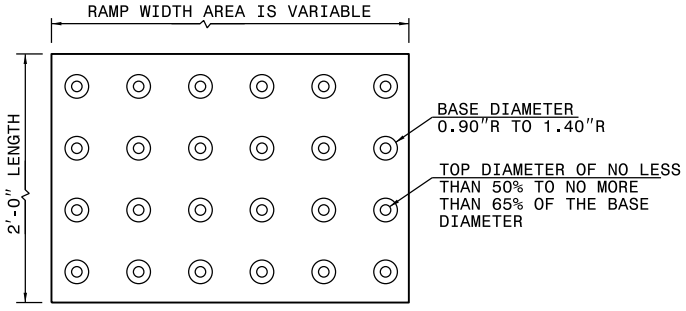


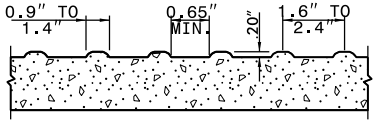
SECTION B-B



SECTION A-A

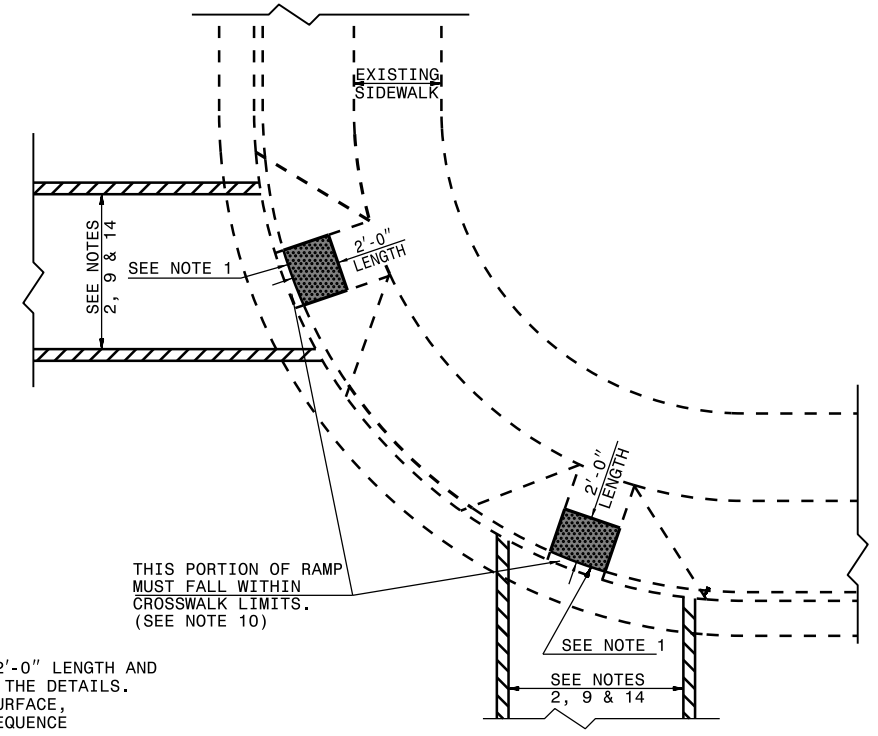
PAY LIMITS OF RETROFIT CURB RAMP





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



PLAN VIEW

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

SHEET 3 OF 5

848.06