

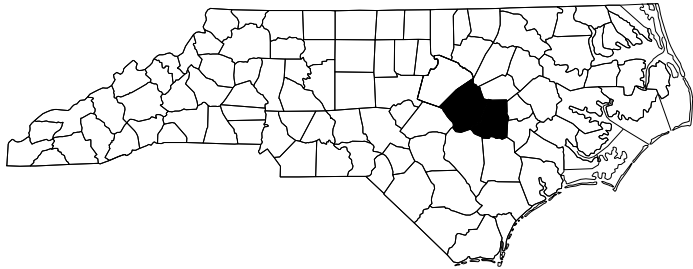
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07/17/2019

CONTRACT: DD00510 TIP PROJECT: BO-2404GA/BO-2404GB/BO-2404GC

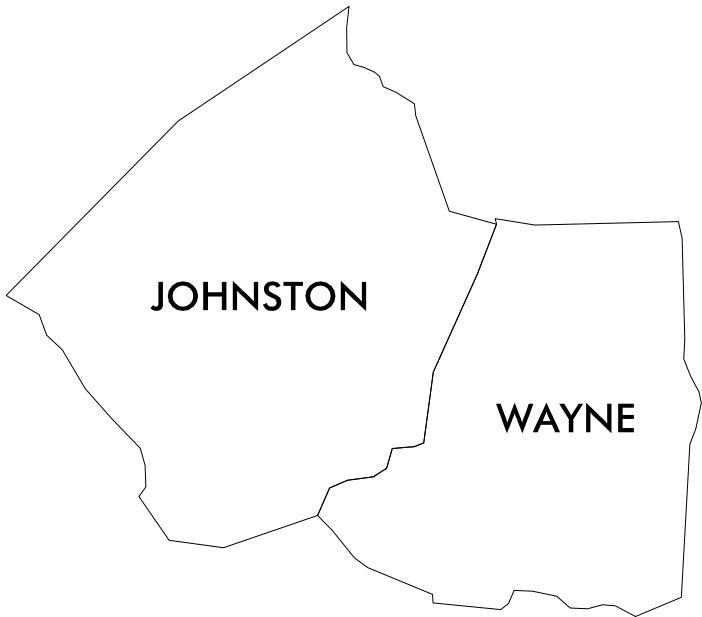


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DIVISIONWIDE

LOCATION: JOHNSTON & WAYNE COUNTIES

TYPE OF WORK: CURB RAMP INSTALLATIONS



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BO-2404GA/BO-2404GB/ BO-2404GC	1	57
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50933.1.12	5093312	CON (BO-2404GA)	
50933.1.13	5093313	CON (BO-2404GB)	
50933.1.14	5093314	CON (BO-2404GC)	

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

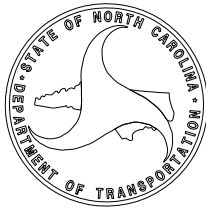
2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

ADDISON GAINEY, PE
PROJECT ENGINEER

LETTING DATE:
5/12/2026

NV5
PROJECT DESIGN ENGINEER



ADA SUMMARY OF QUANTITIES - TOTALS

TIP Number:	BO-2404GA BO-2404GB BO-2404GC
WBS Number:	50933.1.12 50933.1.13 50933.1.14
County:	Johnston Wayne

Sheet No.
2

TIP	WBS	County	Municipality	0000100000-N (LS) Mobilization	4457000000-N (LS) Temporary Traffic Control	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps
BO-2404GA	50933.1.12	Johnston	Archer Lodge (<5K)			0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	1	0
BO-2404GA	50933.1.12	Johnston	Benson (<5K)			1	5	6	0	64	28	0	0	21	32	4	0	0	0	16	4	0
BO-2404GA	50933.1.12	Johnston	Clayton (<5K)			10	3	0	0	56	0	0	0	29	0	0	0	0	0	14	0	0
BO-2404GA	50933.1.12	Johnston	Four Oaks (<5K)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
BO-2404GA	50933.1.12	Johnston	Kenly (<5K)			0	6	0	0	76	46	0	8	15	30	0	1	0	0	19	6	0
BO-2404GA	50933.1.12	Johnston	Micro (<5K)			0	0	0	0	4	0	0	0	0	6	0	0	8	0	1	0	0
BO-2404GA	50933.1.12	Johnston	Princeton (<5K)			0	2	0	0	8	0	0	0	12	10	0	0	0	2	2	0	0
BO-2404GA	50933.1.12	Johnston	Smithfield (<5K)			16	1	0	0	20	0	0	0	0	0	0	0	0	0	5	0	0
BO-2404GA	50933.1.12	Johnston	Unincorporated Areas (<5K)			10	22	99	0	128	174	0	50	36	112	0	0	0	0	32	6	6
BO-2404GA	50933.1.12	Wayne	Eureka (<5K)			0	1	0	0	12	0	0	0	0	0	0	0	0	0	2	1	0
BO-2404GA	50933.1.12	Wayne	Fremont (<5K)			0	2	21	0	16	0	0	10	9	0	0	0	0	0	4	0	1
BO-2404GA	50933.1.12	Wayne	Goldsboro (<5K)			0	3	0	0	13	22	0	30	6	10	0	0	0	1	0	5	4
BO-2404GA	50933.1.12	Wayne	Mount Olive (<5K)			0	16	58	0	203	40	0	0	106	56	0	1	0	0	48	15	1
BO-2404GA	50933.1.12	Wayne	Pikeville (<5K)			0	1	0	0	12	0	0	0	3	0	0	1	0	1	3	0	0
BO-2404GA	50933.1.12	Wayne	Unincorporated Areas (<5K)			0	2	0	6	20	0	10	0	0	11	0	0	0	0	5	1	0
BO-2404GA	50933.1.12	-	-	.5	.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal For Below 5,000 Population				.5	.5	37	64	184	6	632	320	10	98	237	267	4	3	8	4	152	39	12
BO-2404GB	50933.1.13	Johnston	Four Oaks (5K-50K)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
BO-2404GB	50933.1.13	-	-	.25	.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal For 5,000 - 50,000 Population				.25	.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
BO-2404GC	50933.1.14	Johnston	Archer Lodge (50K-200K)			2	1	0	0	0	0	0	0	6	0	0	0	0	0	0	1	0
BO-2404GC	50933.1.14	-	-	.25	.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal For 50,000 - 200,000 Population				.25	.25	2	1	0	0	0	0	0	0	6	0	0	0	0	0	0	1	0
GRAND TOTAL				1	1	39	65	184	6	632	320	10	98	237	273	4	3	8	4	153	40	12

Notes: (1) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (2) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.

ADA SUMMARY OF QUANTITIES - ARCHER LODGE (< 5,000 POPULATION)

Municipality:	Archer Lodge
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

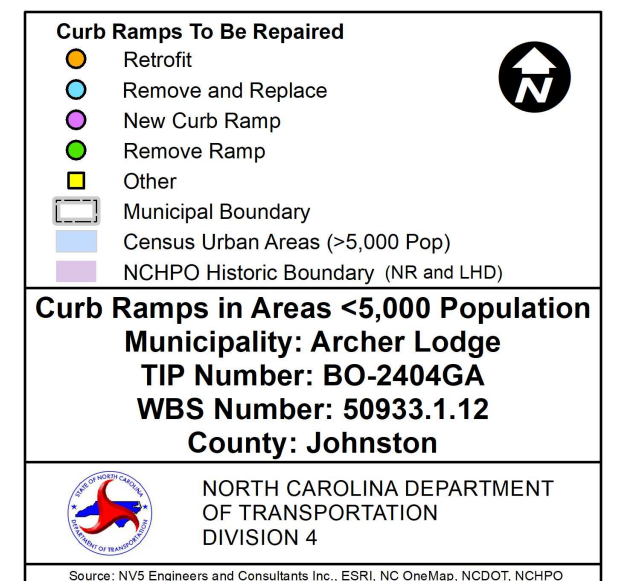
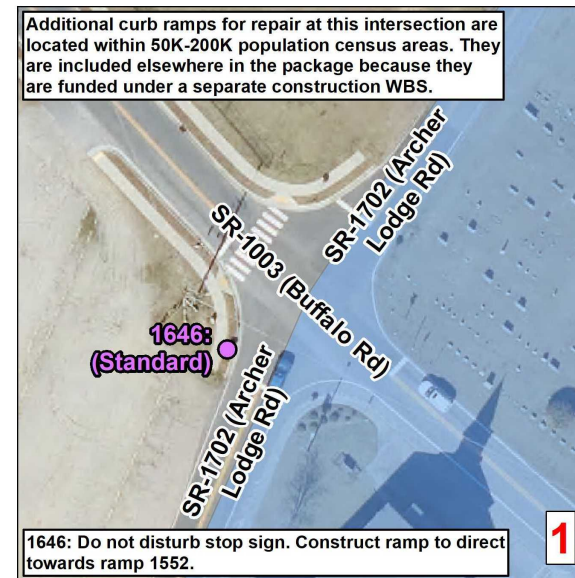
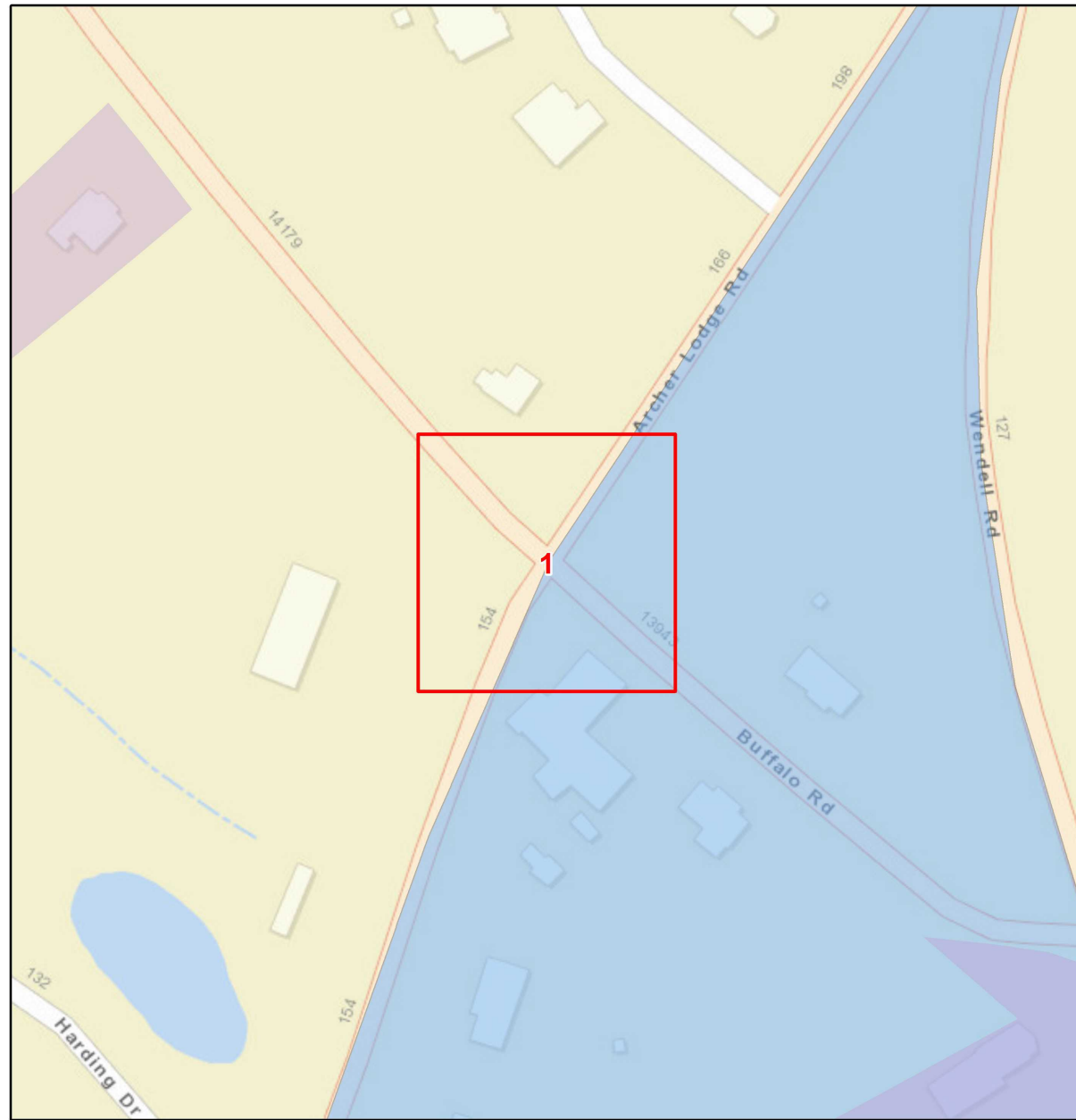
Sheet No.
3

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
1646	1	SR-1702 (Archer Lodge Rd)	SR-1003 (Buffalo Rd)						10										1		Standard - 848.06
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Archer Lodge				0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	1	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



ADA SUMMARY OF QUANTITIES - BENSON (< 5,000 POPULATION)

Municipality:	Benson
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

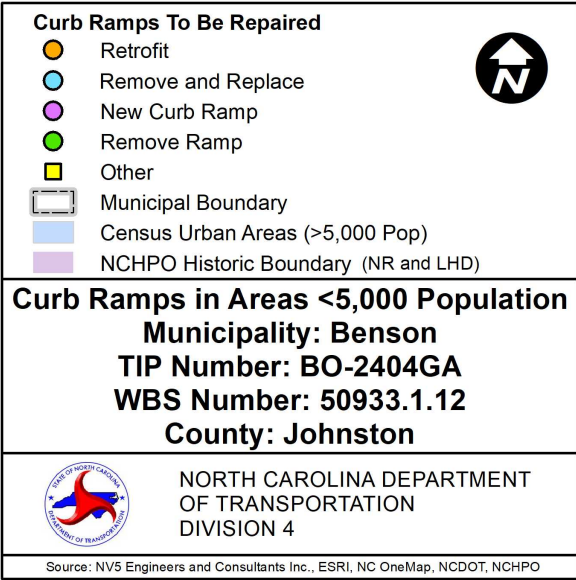
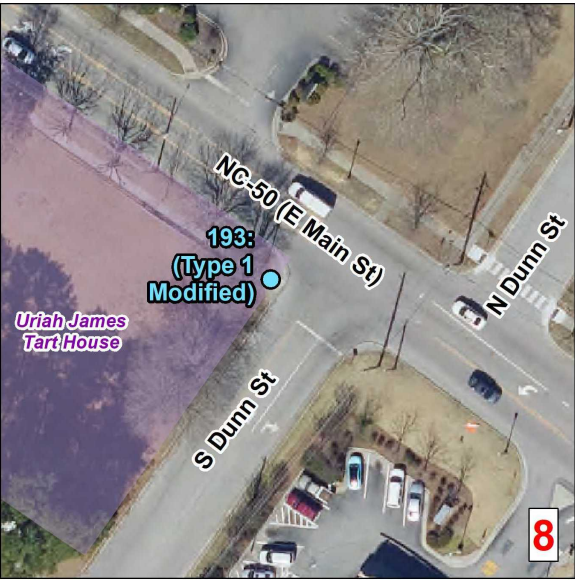
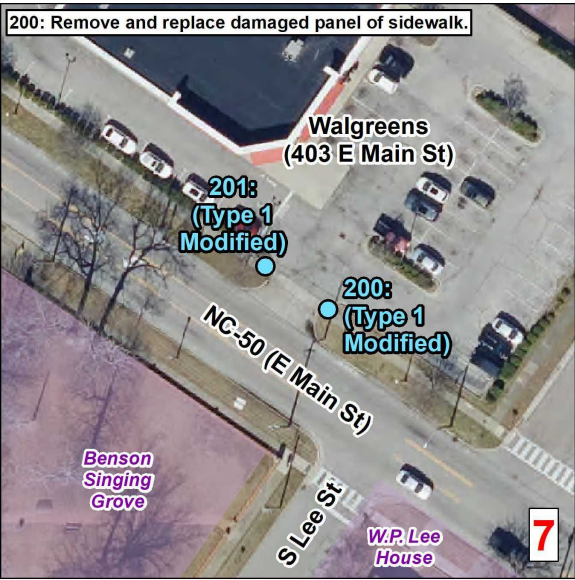
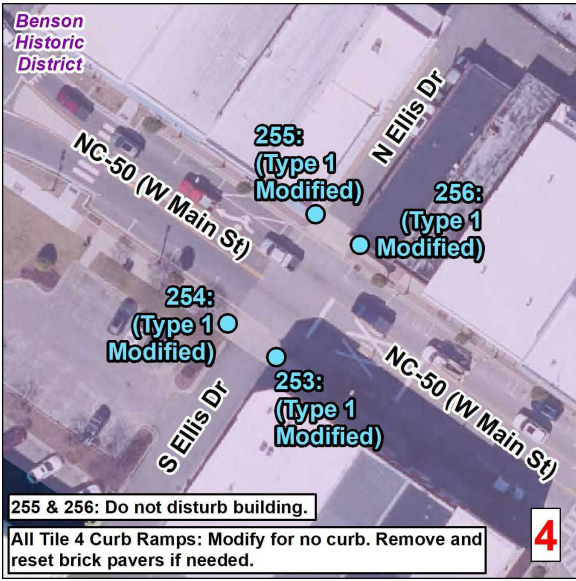
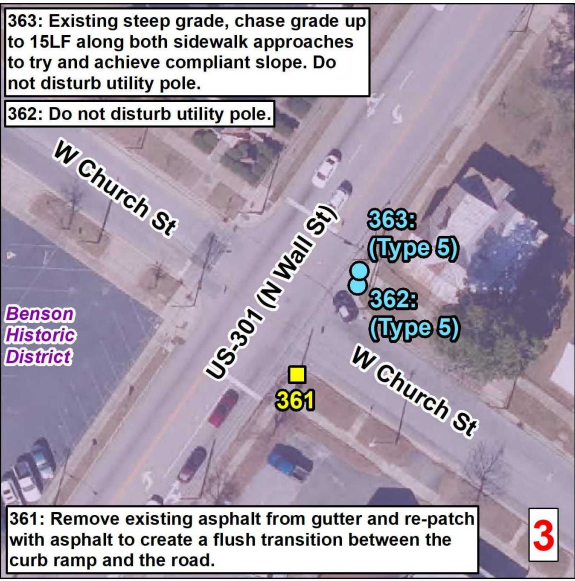
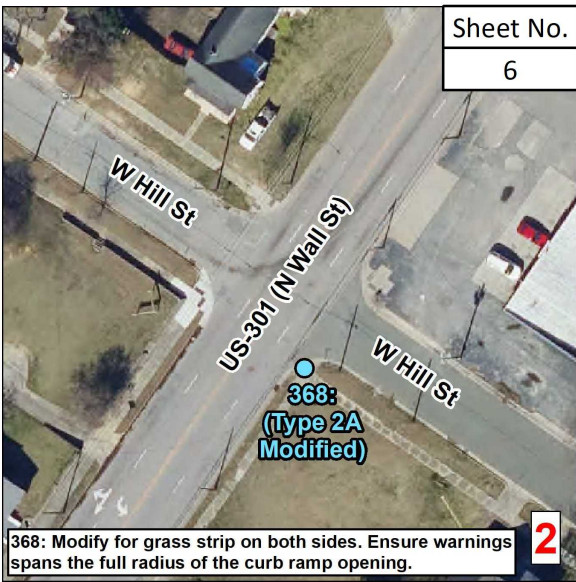
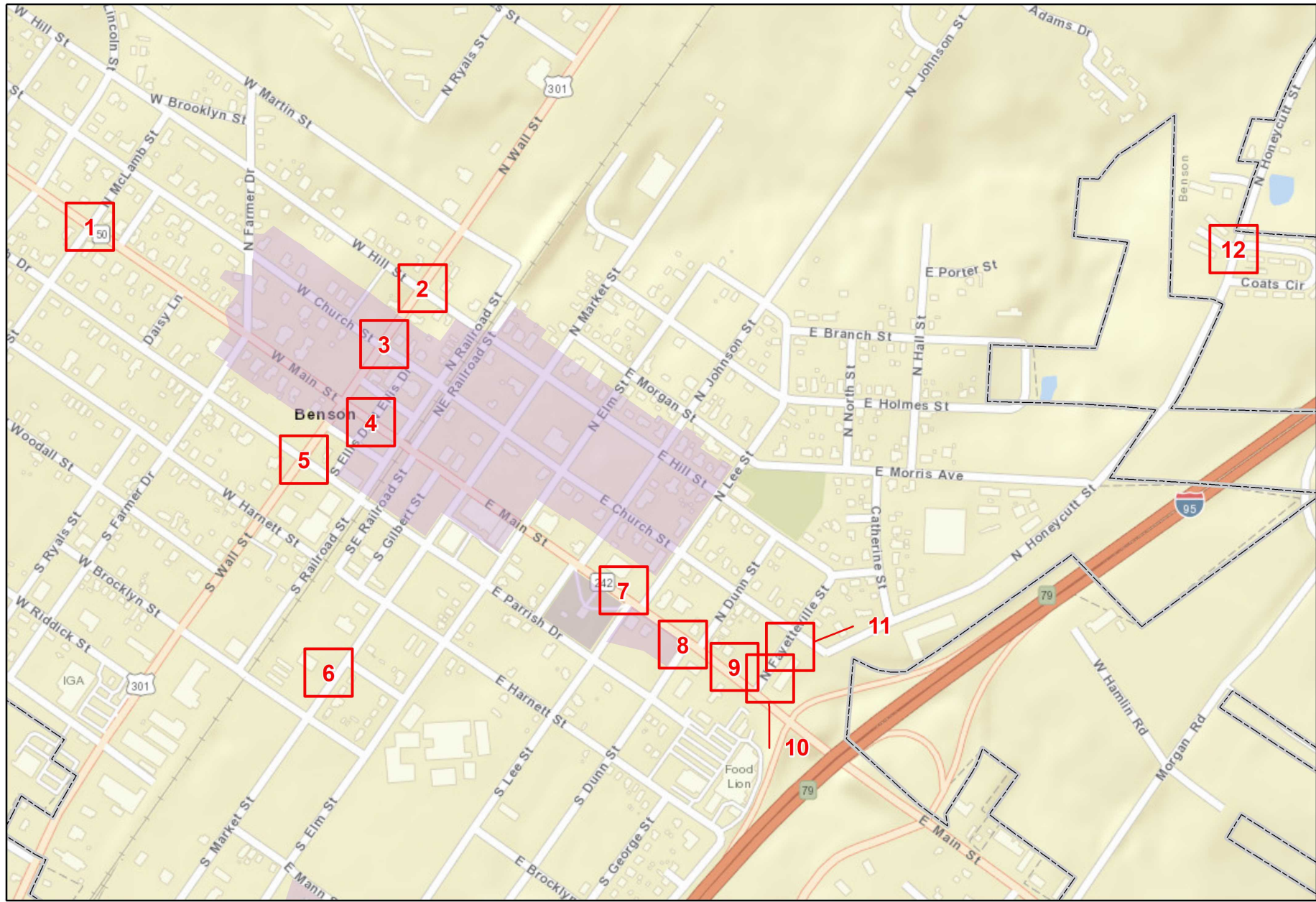
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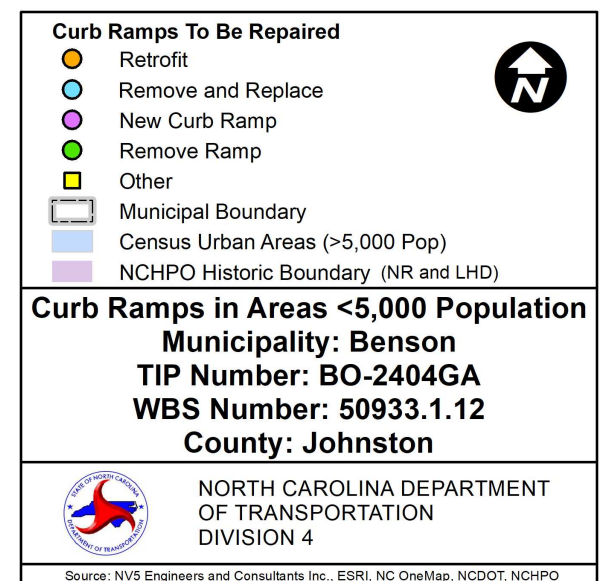
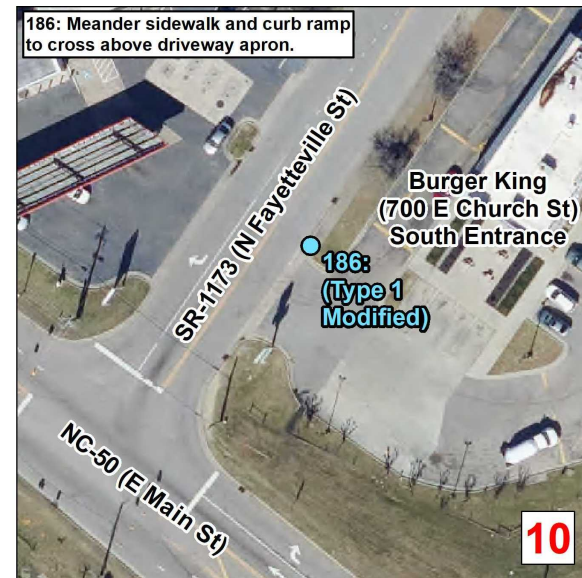
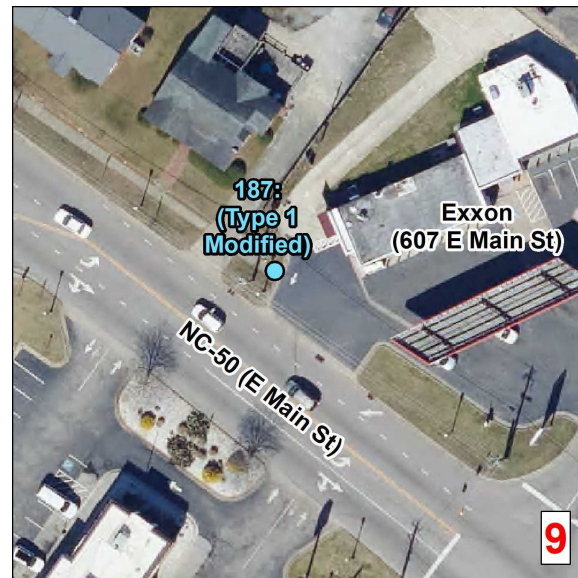
Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
303	1	NC-27 (W Main St)	S Mclamb St															1			Standard - 848.06
368	2	US-301 (N Wall St)	W Hill St															1			Type 2A Modified - 848.06
361	3	US-301 (N Wall St)	W Church St	1																	Other
362**	3	US-301 (N Wall St)	W Church St															1			Type 5 - 848.06
363	3	US-301 (N Wall St)	W Church St															1			Type 5 - 848.06
253	4	NC-50 (W Main St)	S Ellis Dr											1				1			Type 1 Modified - 848.06
254	4	NC-50 (W Main St)	S Ellis Dr											1				1			Type 1 Modified - 848.06
255	4	NC-50 (W Main St)	N Ellis Dr											1				1	1		Type 1 Modified - 848.06
256	4	NC-50 (W Main St)	N Ellis Dr											1				1			Type 1 Modified - 848.06
345	5	US-301 (S Wall St)	W Parrish Dr															1			Standard - 848.06
236	6	SR-1204 (S Market St)	US Post Office (402 S Market St) North Entrance					6					8						1		Type 1 Modified - 848.06
237	6	SR-1204 (S Market St)	US Post Office (402 S Market St) North Entrance			6		6					6						1		Type 1 Modified - 848.06
238	6	SR-1204 (S Market St)	US Post Office (402 S Market St) South Entrance					7					8						1		Type 1 Modified - 848.06
239	6	SR-1204 (S Market St)	US Post Office (402 S Market St) South Entrance					6					10						1		Type 1 Modified - 848.06
200	7	NC-50 (E Main St)	Walgreens (403 E Main St)									3						1			Type 1 Modified - 848.06
201	7	NC-50 (E Main St)	Walgreens (403 E Main St)															1			Type 1 Modified - 848.06
193	8	NC-50 (E Main St)	S Dunn St															1			Type 1 Modified - 848.06
187	9	NC-50 (E Main St)	Exxon (607 E Main St)															1			Type 1 Modified - 848.06
186	10	SR-1173 (N Fayetteville St)	Burger King (700 E Church St) South Entrance					3				6						1			Type 1 Modified - 848.06
185	11	SR-1173 (N Fayetteville St)	Burger King (700 E Church St) North Entrance															1			Type 1C - 848.06
181	12	SR-1173 (N Honeycutt St)	Blackman St															1			Type 1 Modified - 848.06
-	-	-	-	-	5*	-	-	64*	-	-	-	12*	-	-	-	-	-	-	-	-	
Sub-Total for Benson				1	5	6	0	64	28	0	0	21	32	4	0	0	0	16	4	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.





ADA SUMMARY OF QUANTITIES - CLAYTON (< 5,000 POPULATION)

Municipality:	Clayton
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

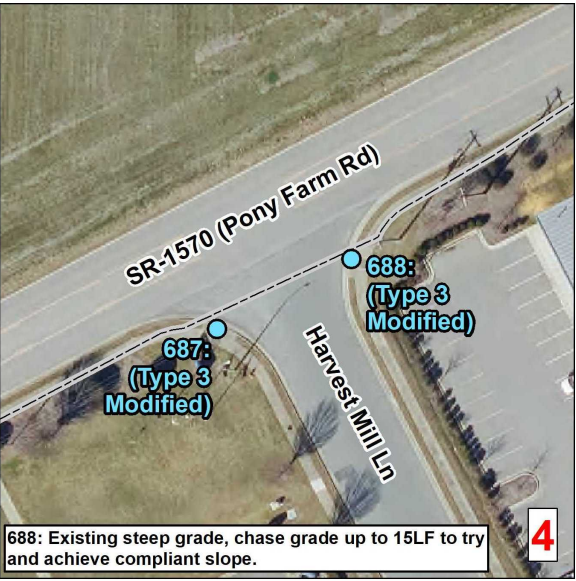
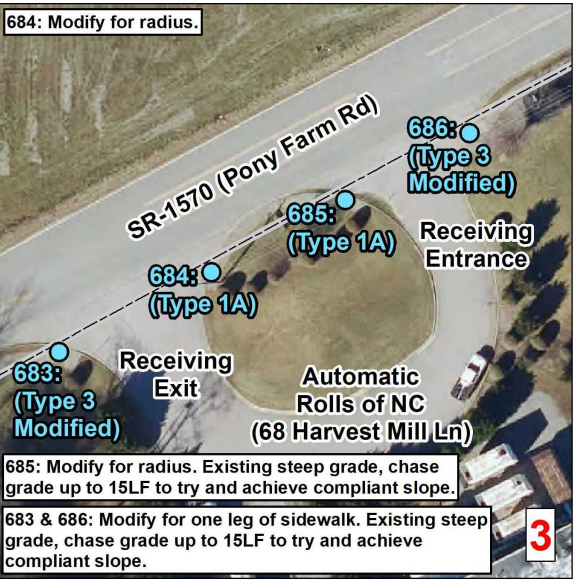
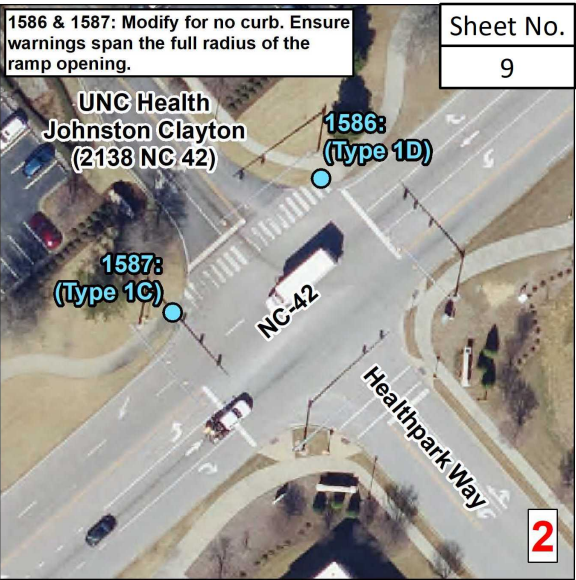
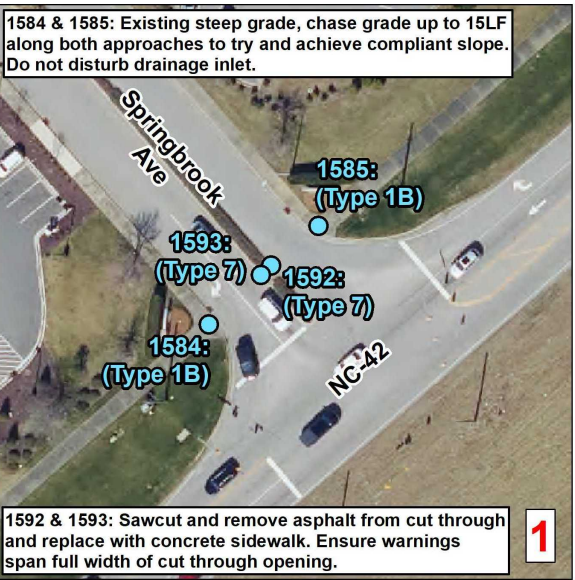
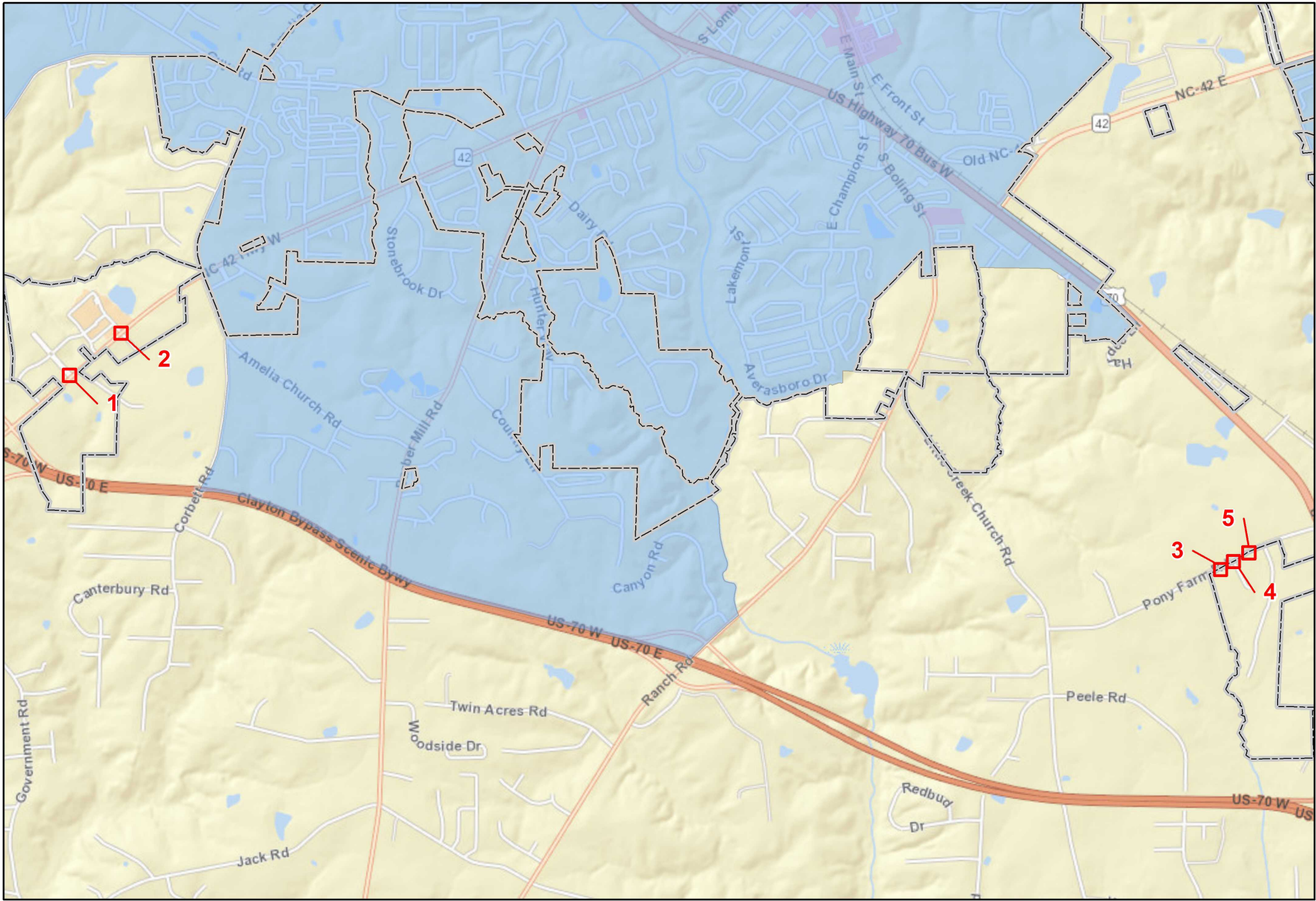
Sheet No.
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
1584	1	NC-42	Springbrook Ave															1			Type 1B - 848.06
1585	1	NC-42	Springbrook Ave															1			Type 1B - 848.06
1592	1	NC-42	Springbrook Ave	5														1			Type 7 - 848.06
1593	1	NC-42	Springbrook Ave	5														1			Type 7 - 848.06
1586	2	NC-42	UNC Health Johnston - Clayton (2138 NC 42)															1			Type 1D - 848.06
1587	2	NC-42	UNC Health Johnston - Clayton (2138 NC 42)															1			Type 1C - 848.06
683	3	SR-1570 (Pony Farm Rd)	Automatic Rolls of NC (68 Harvest Mill Ln) Receiving Exit															1			Type 3 Modified - 848D0609
684**	3	SR-1570 (Pony Farm Rd)	Automatic Rolls of NC (68 Harvest Mill Ln) Receiving Exit															1			Type 1A - 848.06
685	3	SR-1570 (Pony Farm Rd)	Automatic Rolls of NC (68 Harvest Mill Ln) Receiving Entrance															1			Type 1A - 848.06
686	3	SR-1570 (Pony Farm Rd)	Automatic Rolls of NC (68 Harvest Mill Ln) Receiving Entrance															1			Type 3 Modified - 848D0609
687**	4	SR-1570 (Pony Farm Rd)	Harvest Mill Ln															1			Type 3 Modified - 848D0609
688	4	SR-1570 (Pony Farm Rd)	Harvest Mill Ln															1			Type 3 Modified - 848D0609
689	5	SR-1570 (Pony Farm Rd)	Lane Installation (61 Harvest Mill Ln) Pony Farm Rd Entrance															1			Type 1C - 848.06
690	5	SR-1570 (Pony Farm Rd)	Lane Installation (61 Harvest Mill Ln) Pony Farm Rd Entrance															1			Type 1C - 848.06
-	-	-	-	-	3*	-	-	56*	-	-	-	29*	-	-	-	-	-	-	-	-	
Sub-Total for Clayton				10	3	0	0	56	0	0	0	29	0	0	0	0	0	14	0	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Curb Ramps To Be Repaired

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

Municipal Boundary
Census Urban Areas (>5,000 Pop)
NCHPO Historic Boundary (NR and LHD)

Curb Ramps in Areas <5,000 Population
Municipality: Clayton
TIP Number: BO-2404GA
WBS Number: 50933.1.12
County: Johnston

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 4

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

ADA SUMMARY OF QUANTITIES - FOUR OAKS (< 5,000 POPULATION)

Municipality:	Four Oaks
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

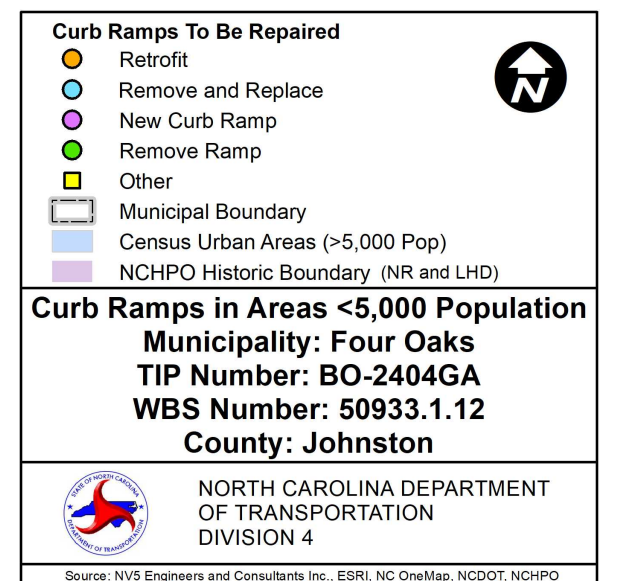
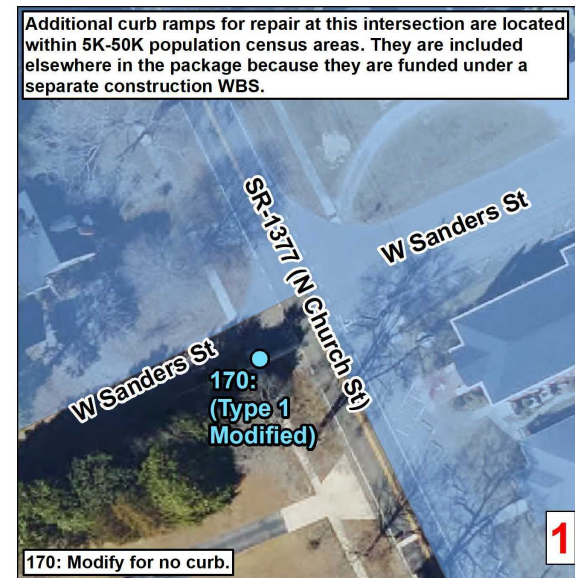
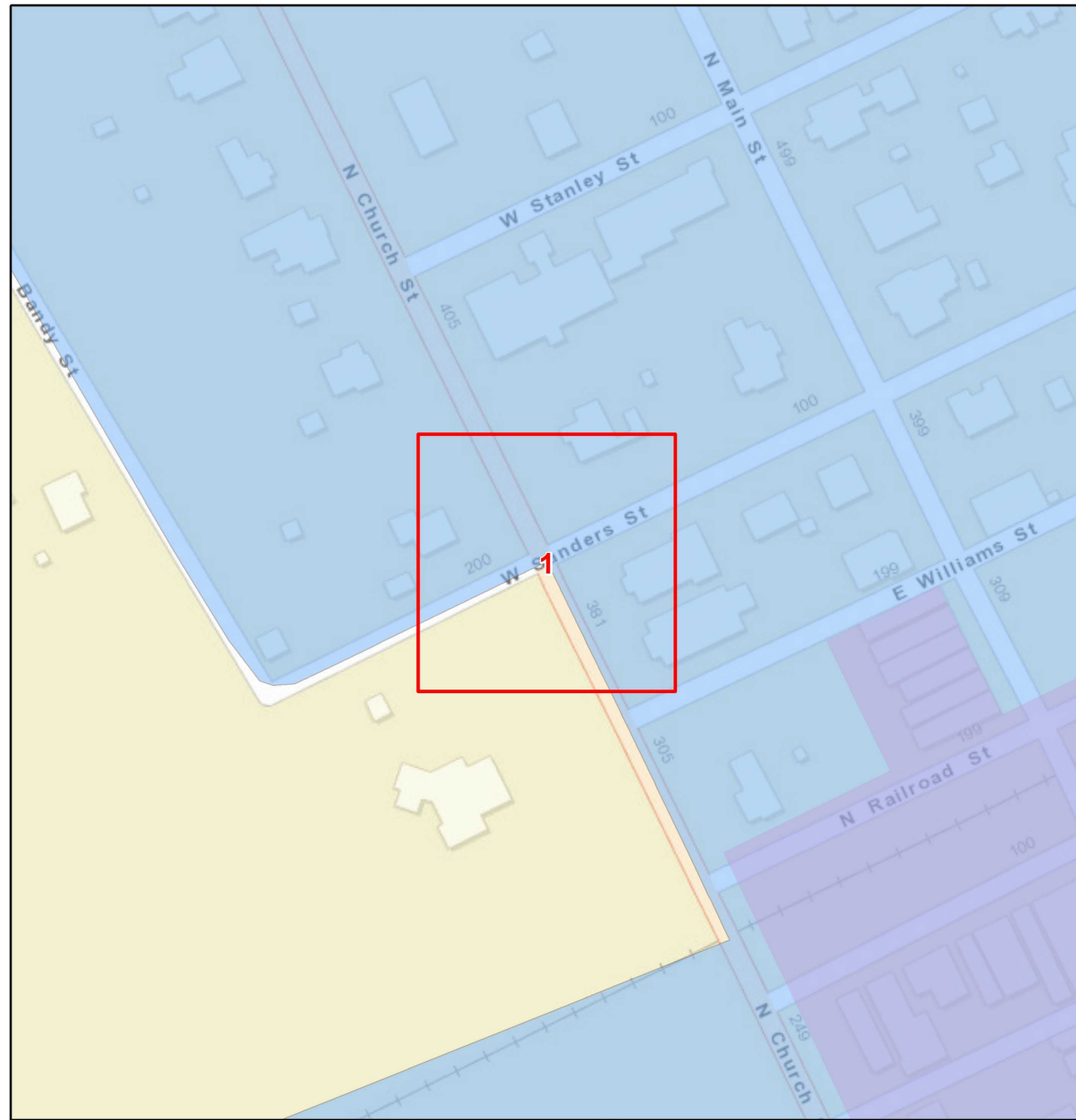
Sheet No.
10

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
170	1	SR-1377 (N Church St)	W Sanders St															1			Type 1 Modified - 848.06
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Four Oaks				0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



ADA SUMMARY OF QUANTITIES - KENLY (< 5,000 POPULATION)

Municipality:	Kenly
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

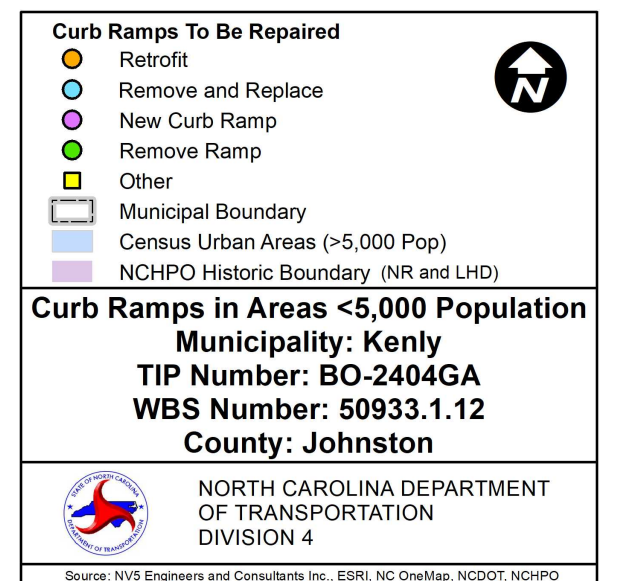
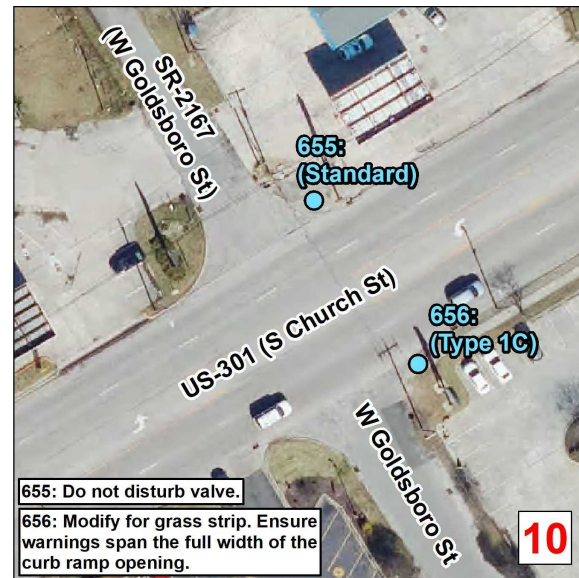
Sheet No.
12

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
638	1	SR-2342 (S College St)	E Goldsboro St															1			Type 1 Modified - 848.06
639	1	SR-2342 (S College St)	E Goldsboro St															1			Type 1 Modified - 848.06
640	2	SR-2342 (S College St)	E Yukon St															1			Type 1 Modified - 848.06
641	2	SR-2342 (S College St)	E Yukon St									3							1		Type 1 Modified - 848.06
642	3	SR-2342 (S College St)	E First St															1			Type 1 Modified - 848.06
643	3	SR-2342 (S College St)	E First St									6						1			Type 1 Modified - 848.06
609	4	NC-222 (E Second St)	N Alford Ave												1			1			Type 1 Modified - 848.06
614	5	NC-222 (W Second St)	N Corbett Ave															1			Type 1 Modified - 848.06
618	5	NC-222 (W Second St)	S Corbett Ave															1			Type 1 Modified - 848.06
622	6	NC-222 (W Second St)	S Gardner Ave								2							1			Type 1 Modified - 848.06
623	6	NC-222 (W Second St)	S Gardner Ave								2							1			Type 1 Modified - 848.06
624	6	NC-222 (W Second St)	N Gardner Ave								2							1			Type 1 Modified - 848.06
625	6	NC-222 (W Second St)	N Gardner Ave								2							1			Type 1 Modified - 848.06
675	7	US-301 (N Church St)	KS Bank (200 N Church St)															1			Type 1C - 848.06
676	7	US-301 (N Church St)	KS Bank (200 N Church St)															1			Type 1C - 848.06
679	7	US-301 (N Church St)	Driveway Entrance (304 N Church St)															1			Type 1C - 848.06
680	7	US-301 (N Church St)	Driveway Entrance (304 N Church St)															1			Type 1C - 848.06
633	8	NC-222 (W Second St)	Business (401 W Second St) South Entrance						6				6						1		Type 1 Modified - 848.06
634	8	NC-222 (W Second St)	Business (401 W Second St) South Entrance						6				6						1		Type 1 Modified - 848.06
635	8	NC-222 (W Second St)	Business (401 W Second St) North Entrance						6				6						1		Type 1 Modified - 848.06
636	8	NC-222 (W Second St)	Business (401 W Second St) North Entrance						6				6						1		Type 1 Modified - 848.06
637	8	NC-222 (W Second St)	403 W Second St						22				6						1		Type 1 - 848.06
669	9	US-301 (S Church St)	O'Reilly Auto (104 S Church St)															1			Type 3 Modified - 848D0609
655	10	US-301 (S Church St)	SR-2167 (W Goldsboro St)															1			Standard - 848.06
656	10	US-301 (S Church St)	SR-2167 (W Goldsboro St)															1			Type 1C - 848.06
-	-	-	-	-	6*	-	-	76*	-	-	-	6*	-	-	-	-	-	-	-	-	
Sub-Total for Kenly				0	6	0	0	76	46	0	8	15	30	0	1	0	0	19	6	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



ADA SUMMARY OF QUANTITIES - MICRO (< 5,000 POPULATION)

Municipality:	Micro
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

Sheet No.
15

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
511	1	SR-2130 (W Main St)	S Railroad St															1			Type 1 Modified - 848.06
526	2	US-301 (S US 301 Hwy)	Fields St										6			8					Other
-	-	-	-	-	-	-	-	4*	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Micro				0	0	0	0	4	0	0	0	0	6	0	0	8	0	1	0	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.

ADA SUMMARY OF QUANTITIES - PRINCETON (< 5,000 POPULATION)

Municipality:	Princeton
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

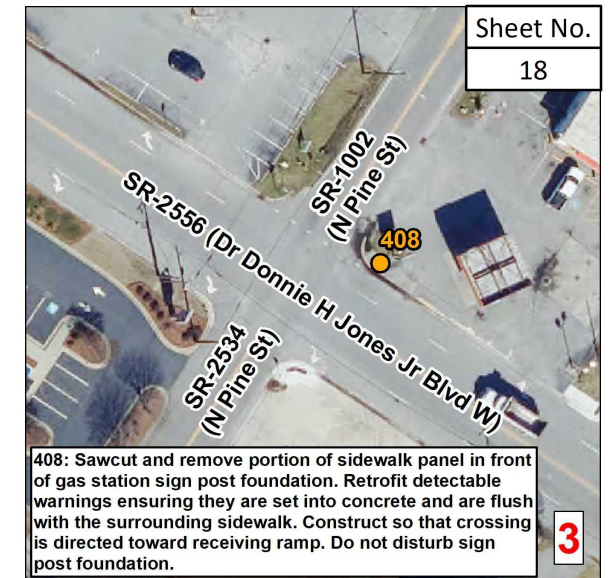
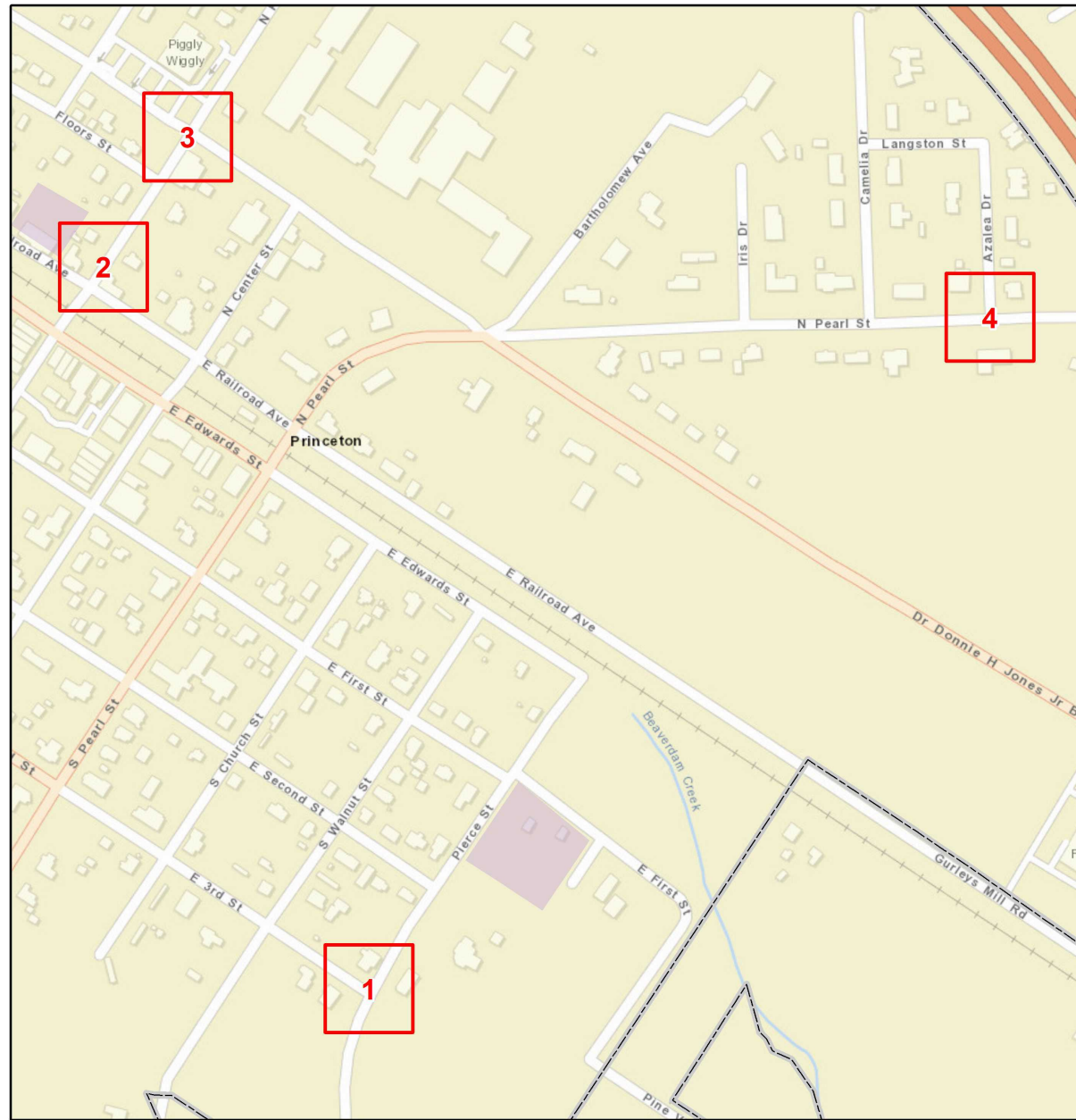
Sheet No.
17

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
387	1	SR-2535 (Old Hinton Rd)	Pearce St										3					1			Type 1 Modified - 848.06
388	1	SR-2535 (Old Hinton Rd)	Pearce St										7								Other
405	2	SR-2534 (N Pine St)	Truist Bank (102 N Pine St)									9									Other
406	2	SR-2534 (N Pine St)	Truist Bank (102 N Pine St)														1				Retrofit Warnings - 848.06
408	3	SR-1002 (N Pine St)	SR-2556 (W Dr Donnie H Jones Jr Blvd)														1				Retrofit Warnings - 848.06
427	4	SR-2372 (N Pearl St)	Azalea Dr															1			Type 1 Modified - 848.06
-	-	-	-	-	2*	-	-	8*	-	-	-	3*	-	-	-	-	-	-	-	-	
Sub-Total for Princeton				0	2	0	0	8	0	0	0	12	10	0	0	0	2	2	0	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Curb Ramps To Be Repaired	
	Retrofit
	Remove and Replace
	New Curb Ramp
	Remove Ramp
	Other
	Municipal Boundary
	Census Urban Areas (>5,000 Pop)
	NCHPO Historic Boundary (NR and LHD)



ADA SUMMARY OF QUANTITIES - SMITHFIELD (< 5,000 POPULATION)

Municipality:	Smithfield
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

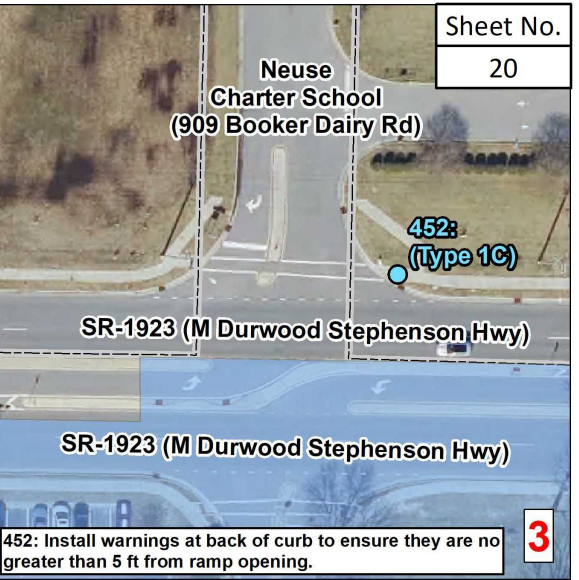
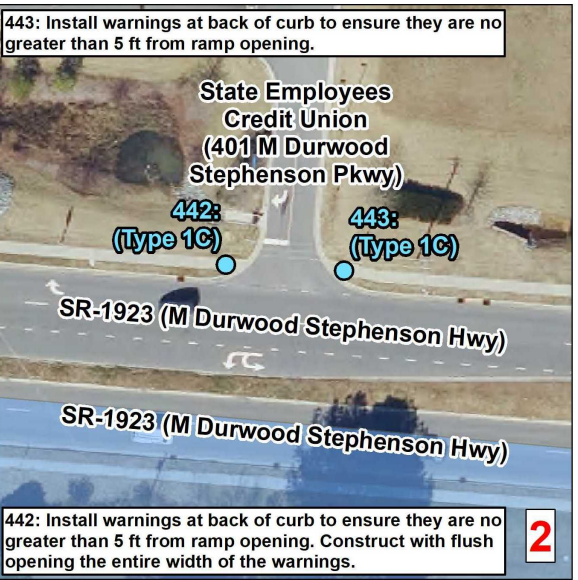
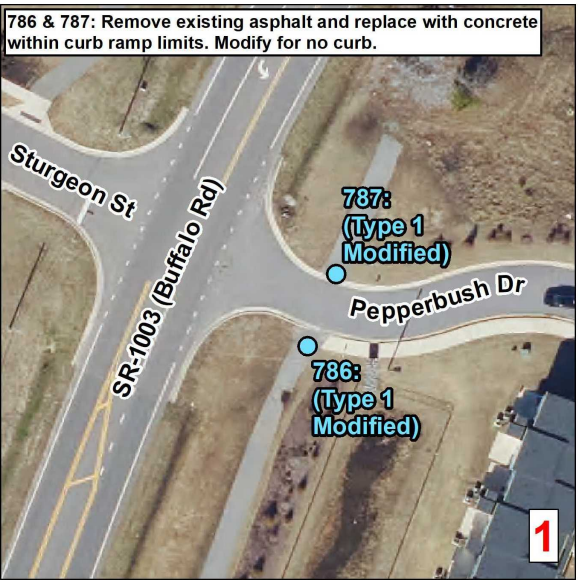
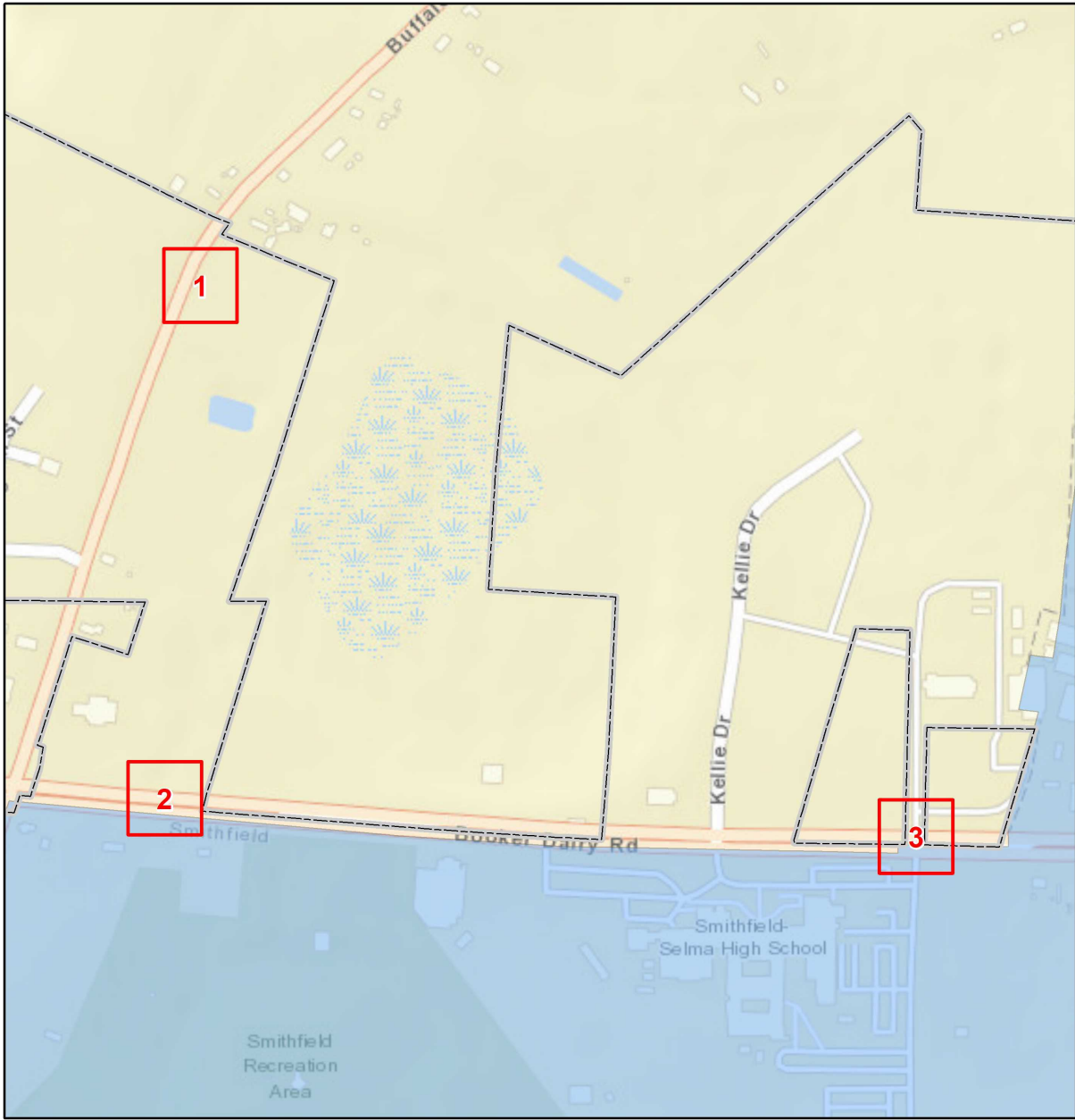
Sheet No.
19

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
786	1	SR-1003 (Buffalo Rd)	Pepperbush Dr	8														1			Type 1 Modified - 848.06
787	1	SR-1003 (Buffalo Rd)	Pepperbush Dr	8														1			Type 1 Modified - 848.06
442	2	SR-1923 (M Durwood Stephenson Hwy)	State Employees Credit Union (401 M Durwood Stephenson Pkwy)															1			Type 1C - 848.06
443	2	SR-1923 (M Durwood Stephenson Hwy)	State Employees Credit Union (401 M Durwood Stephenson Pkwy)															1			Type 1C - 848.06
452	3	SR-1923 (M Durwood Stephenson Hwy)	Neuse Charter School (909 Booker Dairy Rd)															1			Type 1C - 848.06
-	-	-	-	-	1*	-	-	20*	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Smithfield				16	1	0	0	20	0	0	0	0	0	0	0	0	0	5	0	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Curb Ramps To Be Repaired

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

Municipal Boundary

Census Urban Areas (>5,000 Pop)

NCHPO Historic Boundary (NR and LHD)

Curb Ramps in Areas <5,000 Population

Municipality: Smithfield

TIP Number: BO-2404GA

WBS Number: 50933.1.12

County: Johnston

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 4

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

ADA SUMMARY OF QUANTITIES - UNINCORPORATED AREAS - JOHNSTON COUNTY (< 5,000 POPULATION)

Municipality:	Unincorporated Areas
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

Sheet No.
21

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
1566	1	NC-42	SE Flowers Pkwy															1			Standard - 848.06
1567	1	NC-42	SE Flowers Pkwy															1			Type 3 Modified - 848D0609
1647	1	NC-42	SE Flowers Pkwy	5														1			Type 7 - 848.06
1648	1	NC-42	SE Flowers Pkwy	5														1			Type 7 - 848.06
544	2	SR-1573 (Cole Rd)	E Goodnight St															1			Standard - 848.06
545	2	SR-1573 (Cole Rd)	E Goodnight St															1			Standard - 848.06
476	3	I-95 (Southbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
477	3	I-95 (Southbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
478	3	I-95 (Southbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
479	3	I-95 (Southbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
469	4	I-95 (Southbound)	Rest Area Car Parking (Front Entrance)															1			Type 1 Modified - 848.06
470	4	I-95 (Southbound)	Rest Area Car Parking (Front Entrance)															1			Type 1 Modified - 848.06
471	4	I-95 (Southbound)	Rest Area Car Parking (Front Entrance)															1			Type 1 Modified - 848.06
472	4	I-95 (Southbound)	Rest Area Car Parking (Front Entrance)			10					6									1	Remove Ramp
480	5	I-95 (Southbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
481	5	I-95 (Southbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
473	6	I-95 (Southbound)	Rest Area Car Parking (Rear Lot)															1			Standard - 848.06
474	6	I-95 (Southbound)	Rest Area Car Parking (Rear Lot)					10					6						1		Type 1 Modified - 848.06
475	6	I-95 (Southbound)	Rest Area Car Parking (Rear Lot)															1			Standard - 848.06
493	7	I-95 (Northbound)	Rest Area Car Parking (Rear Lot)			7					8									1	Remove Ramp
494	7	I-95 (Northbound)	Rest Area Car Parking (Rear Lot)															1			Standard - 848.06
495	7	I-95 (Northbound)	Rest Area Car Parking (Rear Lot)															1			Standard - 848.06
491	8	I-95 (Northbound)	Rest Area Car Parking (Rear Lot)															1			Type 1 Modified - 848.06
492	8	I-95 (Northbound)	Rest Area Car Parking (Rear Lot)			9					9									1	Remove Ramp
496	8	I-95 (Northbound)	Rest Area Car Parking (Rear Lot)															1			Type 1 Modified - 848.06
1610	9	I-95 (Northbound)	Rest Area Car Parking (Rear Lot)		11	32		32										1			Type 2 - 848.06
482	10	I-95 (Northbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
483	10	I-95 (Northbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
484	10	I-95 (Northbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
485	10	I-95 (Northbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
486	11	I-95 (Northbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
487	11	I-95 (Northbound)	Rest Area RV/Truck parking Cross Through															1			Type 8 - 848.06
488	11	I-95 (Northbound)	Rest Area Car Parking (Front Entrance)															1			Type 1 Modified - 848.06
489	11	I-95 (Northbound)	Rest Area Car Parking (Front Entrance)			8					4									1	Remove Ramp
497	11	I-95 (Northbound)	Rest Area Car Parking (Front Entrance)															1			Type 1 Modified - 848.06
Sub-Total				10	11	66	0	0	42	0	27	0	6	0	0	0	0	30	1	4	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.

ADA SUMMARY OF QUANTITIES - UNINCORPORATED AREAS - JOHNSTON COUNTY (< 5,000 POPULATION)

Municipality:	Unincorporated Areas
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Johnston

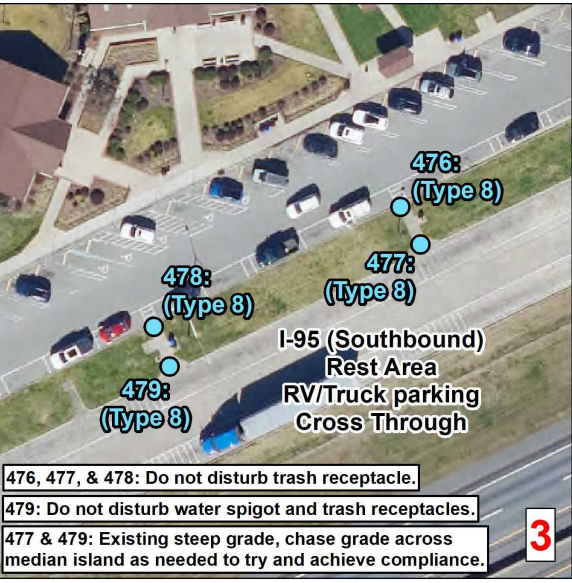
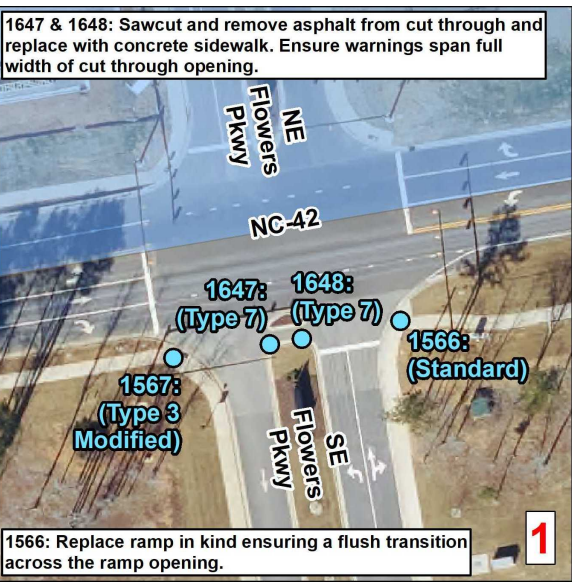
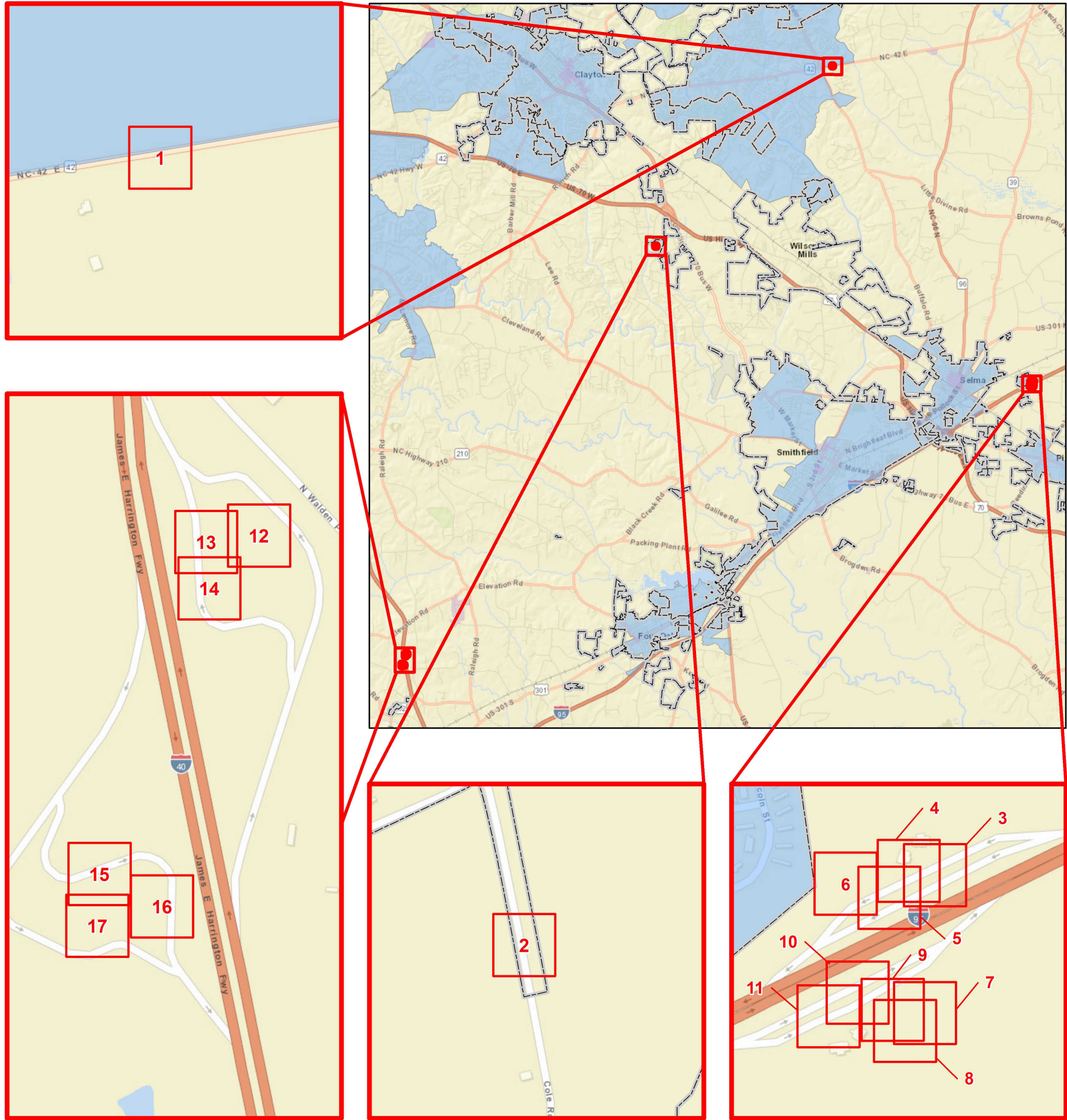
Sheet No.
22

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
498	11	I-95 (Northbound)	Rest Area Car Parking (Front Entrance)															1			Type 1 Modified - 848.06
339	12	I-40 (RST-5714)	I-40 (Northbound) Rest Area RV/Truck parking					20					10						1		Standard - 848.06
338	13	I-40 (RST-5715)	I-40 (Northbound) Rest Area Car Parking (NW Side)					28					32						1		Type 2B - 848.06
178	14	I-40 (RST-5715)	I-40 (Northbound) Rest Area Car Parking (SW Side)								3							1			Standard - 848.06
174	15	I-40 (RST-5713)	I-40 (Southbound) Rest Area Car Parking (NW Side)			15					11									1	Remove Ramp
175	15	I-40 (RST-5713)	I-40 (Southbound) Rest Area Car Parking (NW Side)			18					9									1	Remove Ramp
336	16	I-40 (RST-5713)	I-40 (Southbound) Rest Area Car Parking (E Side)					30					19						1		Type 2 - 848.06
337	16	I-40 (RST-5713)	I-40 (Southbound) Rest Area Car Parking (E Side)					34					20						1		Type 2 - 848.06
340	17	I-40 (RST-5712)	I-40 (Southbound) Rest Area RV/Truck parking					20					25						1		Standard - 848.06
-	-	-	-	-	11*	-	-	128*	-	-	-	36*	-	-	-	-	-	-	-	-	
Sub-Total				0	11	33	0	128	132	0	23	36	106	0	0	0	0	2	5	2	
Sub-Total for Unincorporated Areas - Johnston County				10	22	99	0	128	174	0	50	36	112	0	0	0	0	32	6	6	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Curb Ramps To Be Repaired

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

Municipal Boundary

Census Urban Areas (>5,000 Pop)

NCHPO Historic Boundary (NR and LHD)

Curb Ramps in Areas <5,000 Population

Municipality: Unincorporated Areas

TIP Number: BO-2404GA

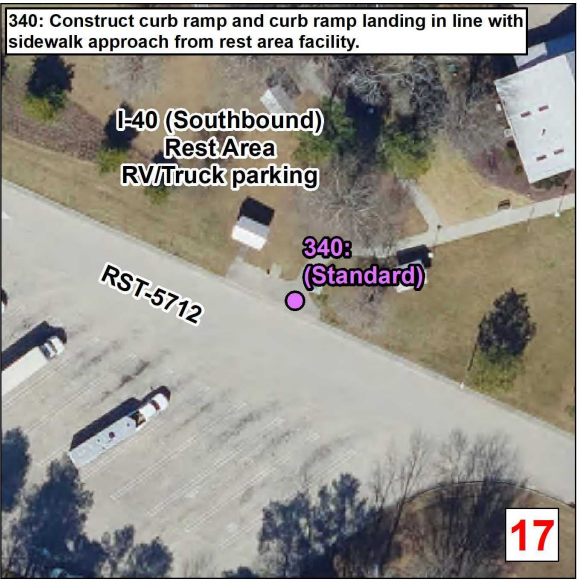
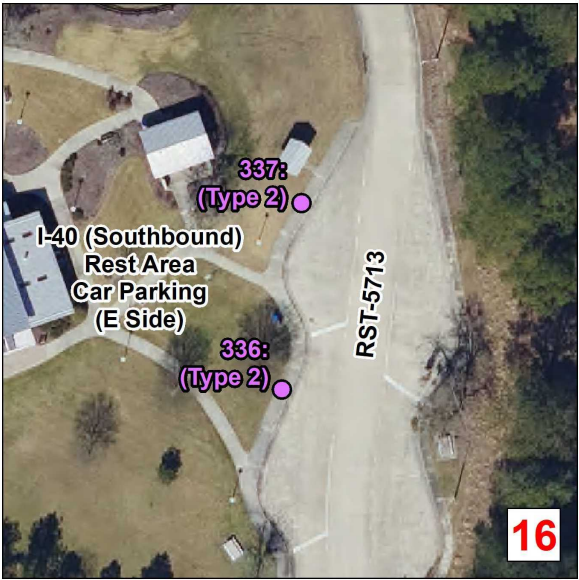
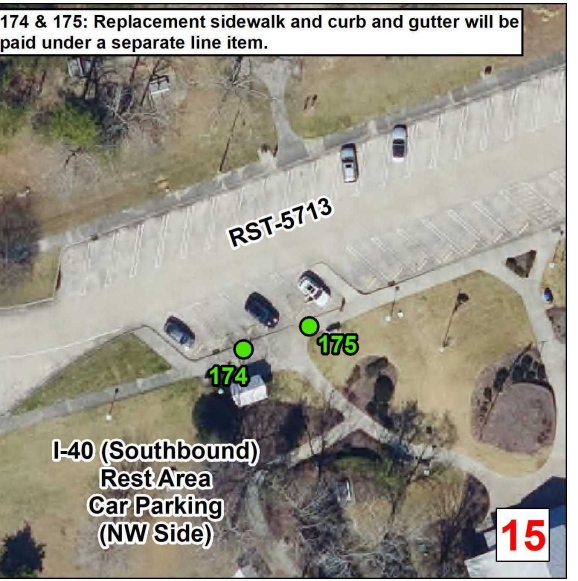
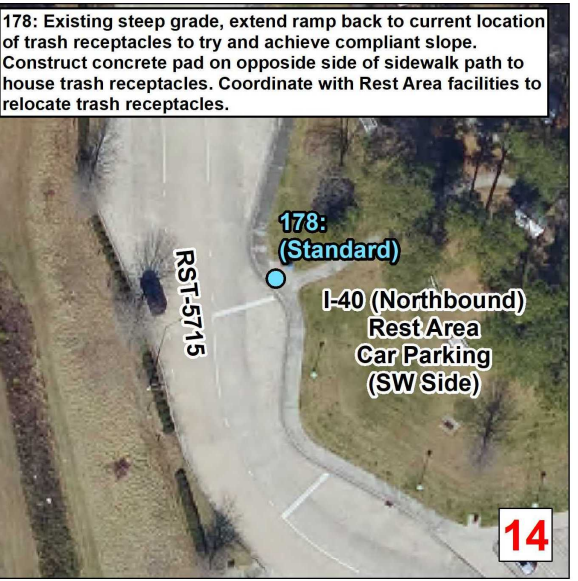
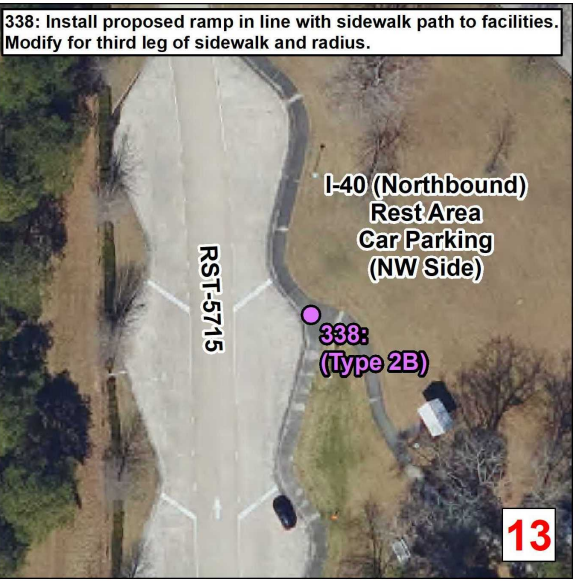
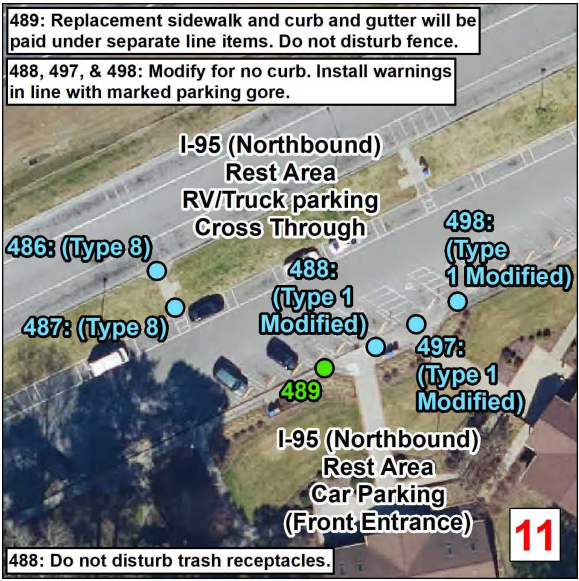
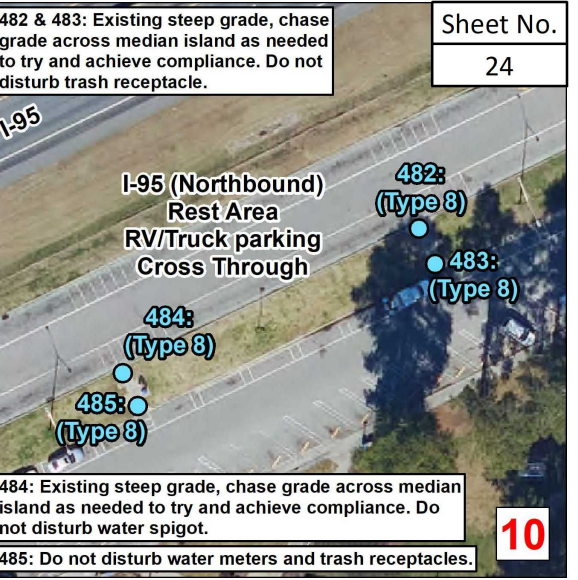
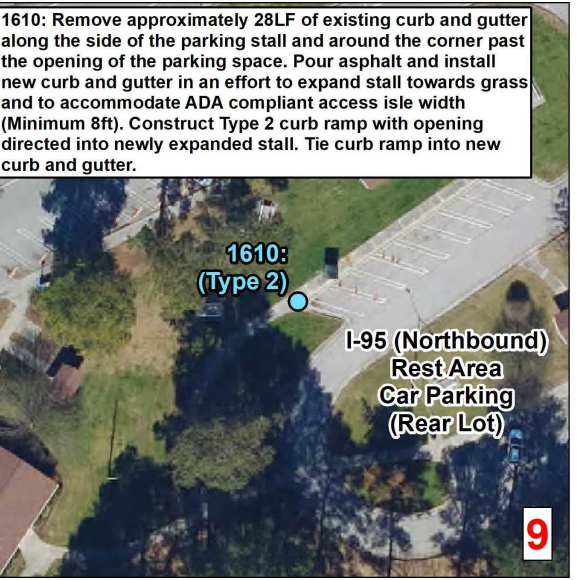
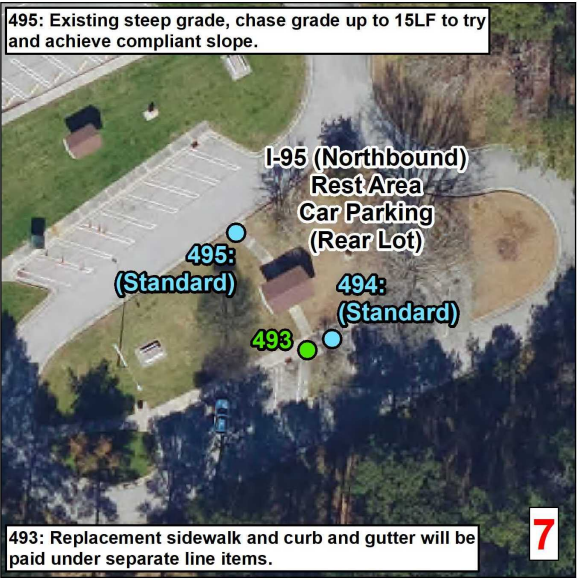
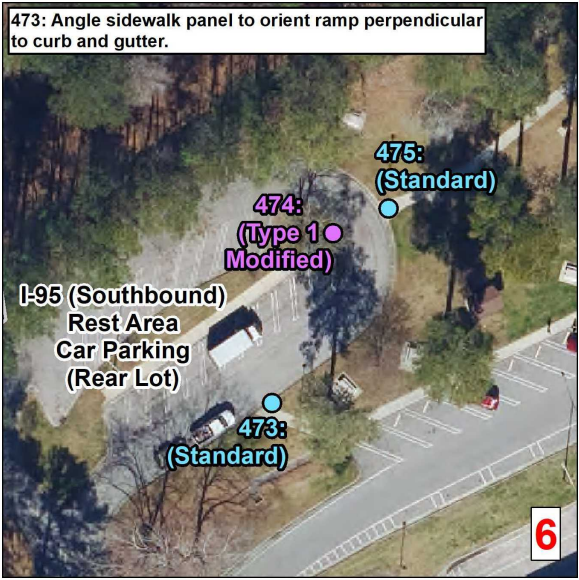
WBS Number: 50933.1.12

County: Johnston

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION 4

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



Curb Ramps To Be Repaired

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

Municipal Boundary

Census Urban Areas (>5,000 Pop)

NCHPO Historic Boundary (NR and LHD)

Curb Ramps in Areas <5,000 Population

Municipality: Unincorporated Areas

TIP Number: BO-2404GA

WBS Number: 50933.1.12

County: Johnston

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 4

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

ADA SUMMARY OF QUANTITIES - EUREKA (< 5,000 POPULATION)

Municipality:	Eureka
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Wayne

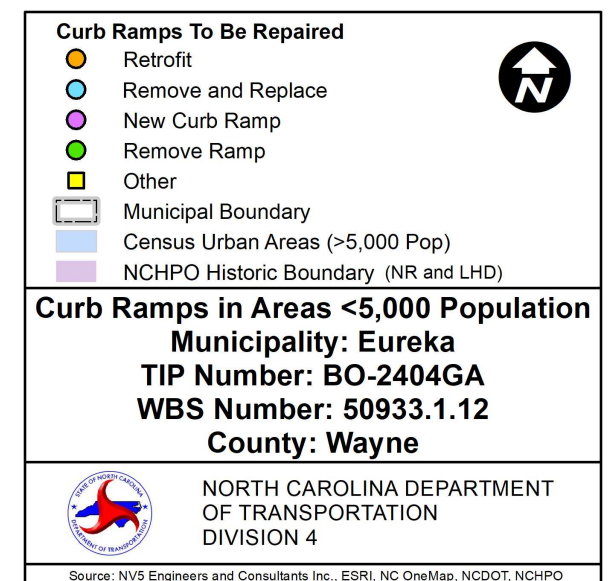
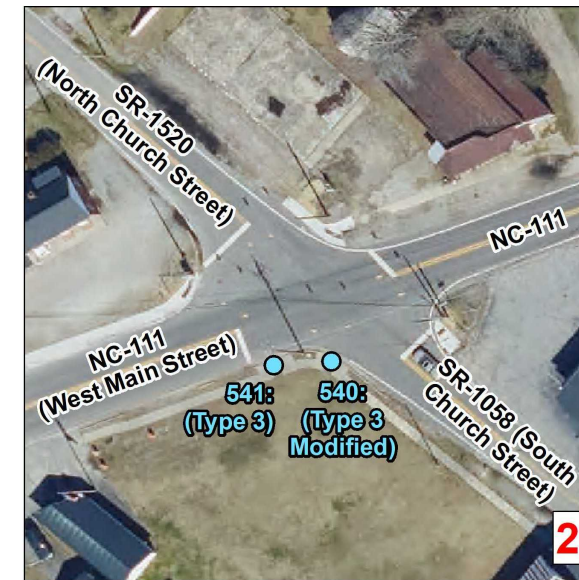
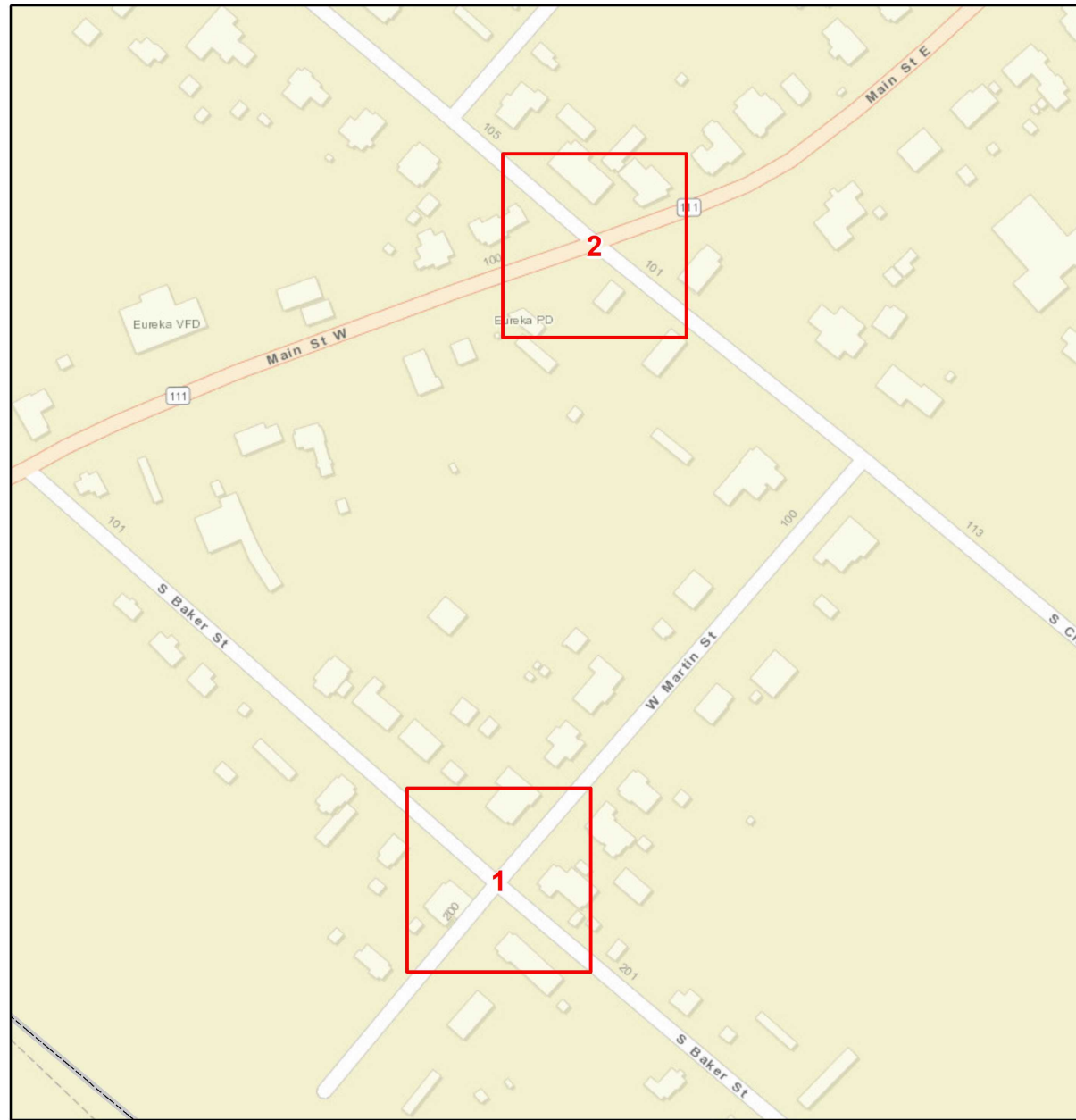
Sheet No.
25

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
542	1	SR-1526 (Baker Street)	West Martin Street																1		Type 1A - 848.06
540**	2	SR-1058 (South Church Street)	NC-111 (West Main Street)															1			Type 3 Modified - 848D0609
541**	2	SR-1058 (South Church Street)	NC-111 (West Main Street)					4										1			Type 3 - 848D0609
-	-	-	-	-	1*	-	-	8*	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Eureka				0	1	0	0	12	0	0	0	0	0	0	0	0	0	2	1	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



ADA SUMMARY OF QUANTITIES - FREMONT (< 5,000 POPULATION)

Municipality:	Fremont
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Wayne

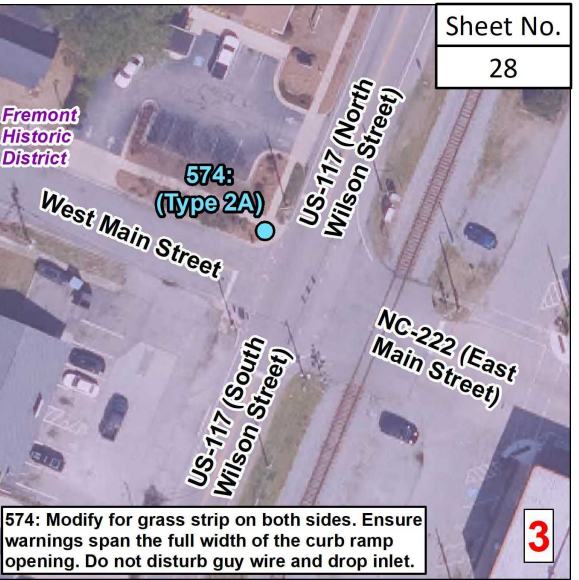
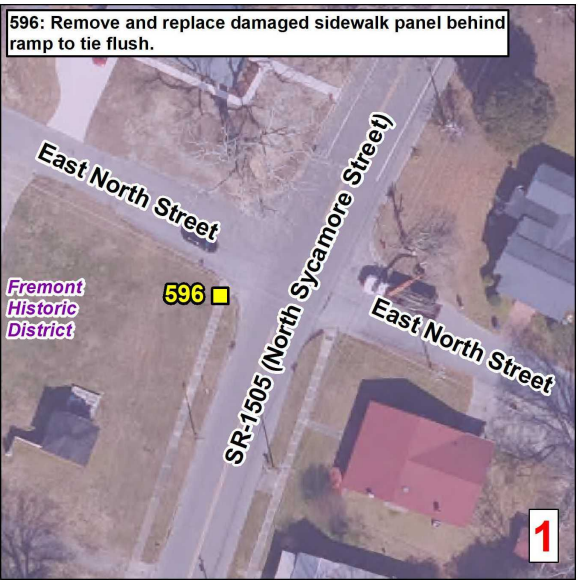
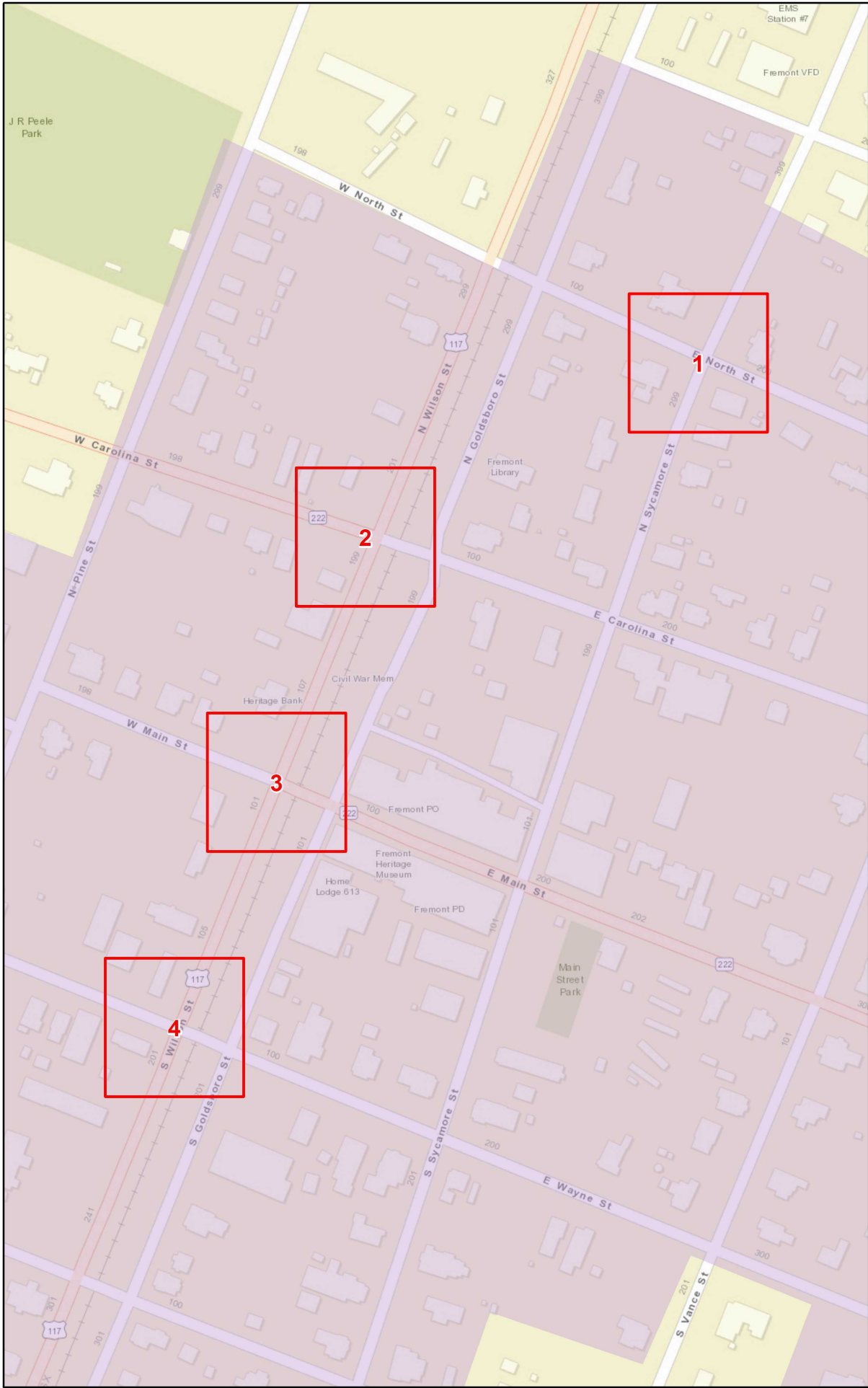
Sheet No.
27

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
596	1	SR-1505 (N Sycamore St)	E North St									3									Other
582	2	US-117 (N Wilson St)	NC-222 (W Carolina St)															1			Type 2B - 848.06
583	2	US-117 (N Wilson St)	NC-222 (W Carolina St)															1			Type 1C - 848.06
1655	2	US-117 (N Wilson St)	NC-222 (W Carolina St)			21					10									1	Remove Ramp
574	3	US-117 (N Wilson St)	W Main St															1			Type 2A - 848.06
580	4	US-117 (S Wilson St)	W Wayne St															1			Type 1 Modified - 848.06
-	-	-	-	-	2*	-	-	16*	-	-	-	6*	-	-	-	-	-	-	-	-	
Sub-Total for Fremont				0	2	21	0	16	0	0	10	9	0	0	0	0	0	4	0	1	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Curb Ramps To Be Repaired

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

▭ Municipal Boundary

■ Census Urban Areas (>5,000 Pop)

■ NCHPO Historic Boundary (NR and LHD)

Curb Ramps in Areas <5,000 Population

Municipality: Fremont

TIP Number: BO-2404GA

WBS Number: 50933.1.12

County: Wayne

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 4

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

ADA SUMMARY OF QUANTITIES - GOLDSBORO (< 5,000 POPULATION)

Municipality:	Goldsboro
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Wayne

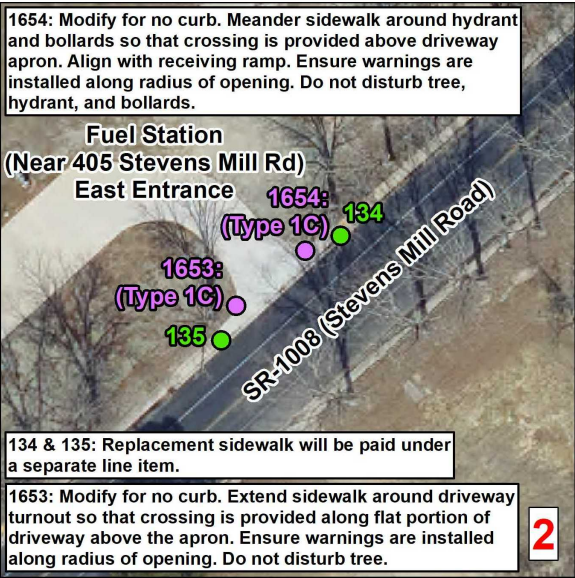
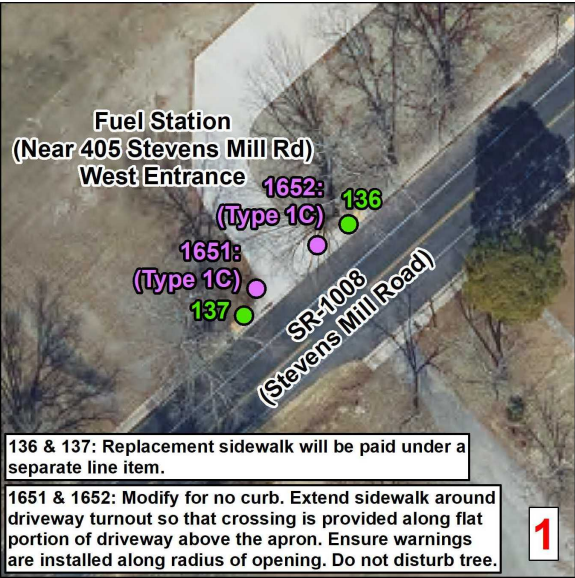
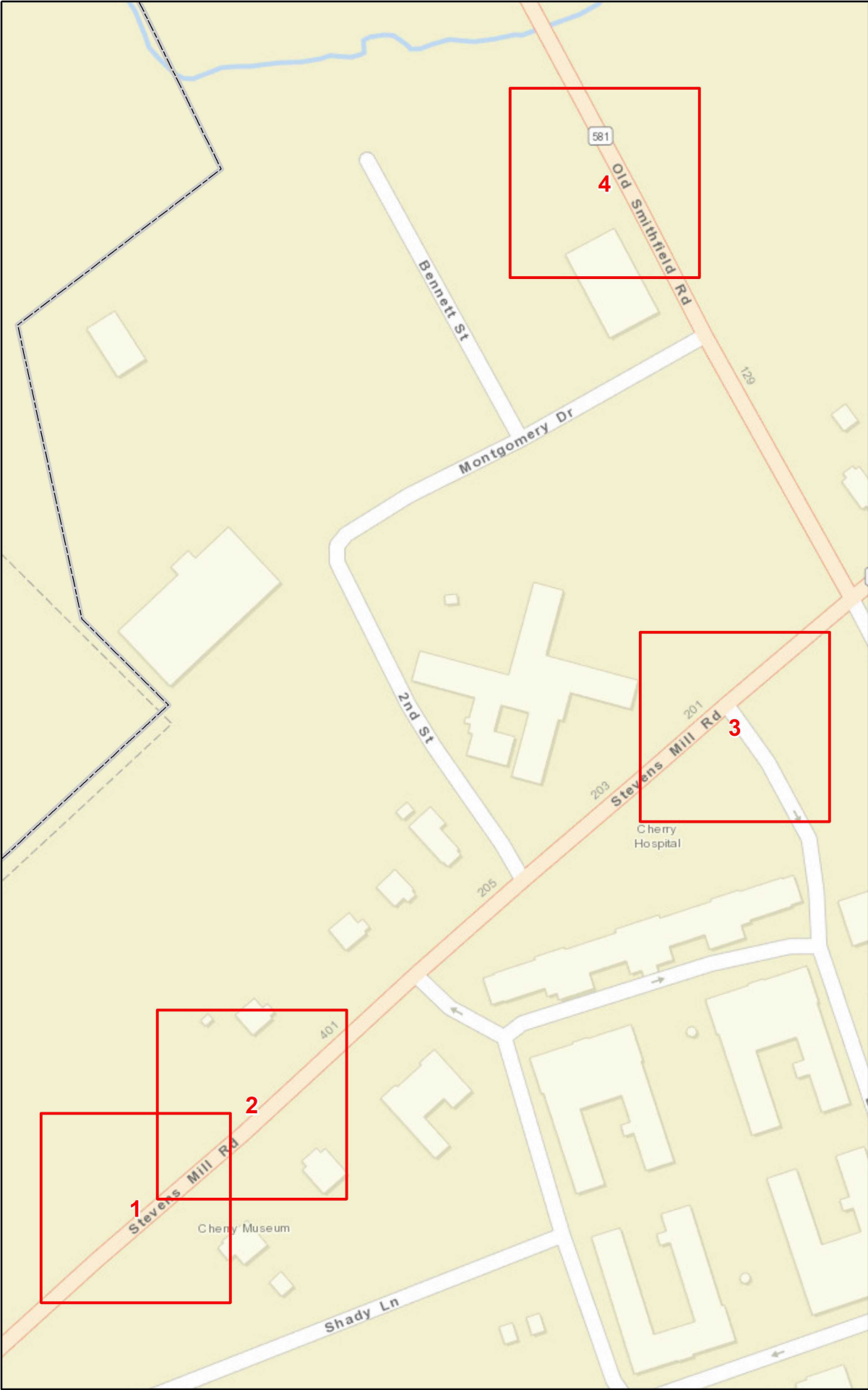
Sheet No.
29

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
136	1	SR-1008 (Stevens Mill Rd)	Fuel Station (Near 405 Stevens Mill Rd) West Entrance								6									1	Remove Ramp
137	1	SR-1008 (Stevens Mill Rd)	Fuel Station (Near 405 Stevens Mill Rd) West Entrance								6									1	Remove Ramp
1651	1	SR-1008 (Stevens Mill Rd)	Fuel Station (Near 405 Stevens Mill Rd) West Entrance																1		Type 1C - 848.06
1652	1	SR-1008 (Stevens Mill Rd)	Fuel Station (Near 405 Stevens Mill Rd) West Entrance																1		Type 1C - 848.06
134	2	SR-1008 (Stevens Mill Rd)	Fuel Station (Near 405 Stevens Mill Rd) East Entrance								6									1	Remove Ramp
135	2	SR-1008 (Stevens Mill Rd)	Fuel Station (Near 405 Stevens Mill Rd) East Entrance								6									1	Remove Ramp
1653	2	SR-1008 (Stevens Mill Rd)	Fuel Station (Near 405 Stevens Mill Rd) East Entrance																1		Type 1C - 848.06
1654	2	SR-1008 (Stevens Mill Rd)	Fuel Station (Near 405 Stevens Mill Rd) East Entrance								6								1		Type 1C - 848.06
127	3	SR-1008 (Stevens Mill Rd)	Loop Rd					13				6									Other
128	3	SR-1008 (Stevens Mill Rd)	Loop Rd														1				Retrofit Warnings - 848.06
115	4	NC-581 (Old Smithfield Rd)	Cherry Hospital Conference Center (103 Old Smithfield Rd) Back Entrance						22				10						1		Type 1C - 848.06
-	-	-	-	-	3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Goldsboro				0	3	0	0	13	22	0	30	6	10	0	0	0	1	0	5	4	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Curb Ramps To Be Repaired

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

Municipal Boundary

Census Urban Areas (>5,000 Pop)

NCHPO Historic Boundary (NR and LHD)

Curb Ramps in Areas <5,000 Population

Municipality: Goldsboro

TIP Number: BO-2404GA

WBS Number: 50933.1.12

County: Wayne

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 4

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

ADA SUMMARY OF QUANTITIES - MOUNT OLIVE (< 5,000 POPULATION)

Municipality:	Mount Olive
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Wayne

Sheet No.
31

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
9	1	SR-1945 (S Church St)	E Nelson St									3						1			Type 1 Modified - 848.06
55	2	SR-1946 (E Maple Street)	S Johnson St																1		Type 1 Modified - 848.06
53	3	SR-1945 (S Church St)	SR-1946 (E Maple St)																	1	Remove Ramp
54	3	SR-1945 (S Church Street)	SR-1946 (E Maple St)									4						1			Type 3 Modified - 848D0609
50	4	SR-1945 (S Church Street)	E Williamson St					3				6	3						1		Type 1 Modified - 848.06
41	5	SR-1945 (S Church St)	E Pollock St															1			Type 1 Modified - 848.06
111	6	SR-1004 (E James St)	Fleer St																1		Type 1 Modified - 848.06
112	6	SR-1004 (E James St)	Fleer St																1		Type 1 Modified - 848.06
31	7	SR-1004 (E James St)	N Jefferson St															1			Type 1 Modified - 848.06
32	7	SR-1004 (E James St)	N Jefferson St															1			Type 1 Modified - 848.06
109	7	SR-1004 (E James St)	N Jefferson St																1		Type 1 Modified - 848.06
110	7	SR-1004 (E James St)	N Jefferson St																1		Type 1 Modified - 848.06
29	8	SR-1004 (E James St)	N Johnson St															1			Type 1 Modified - 848.06
30	8	SR-1004 (E James St)	N Johnson St										3						1		Type 1 Modified - 848.06
26	9	SR-1004 (N Church St)	SR-1004 (E James St)			12												1			Type 4B - 848D0610
27	9	SR-1004 (N Church St)	E James St															1			Type 5 - 848.06
28	9	SR-1969 (N Church St)	E James St															1			Type 4B - 848D0610
1640	9	SR-1004 (N Church St)	E James St																1		Type 5 - 848.06
24	10	SR-1969 (N Church St)	E John St															1			Type 1 Modified - 848.06
19	11	SR-1969 (N Church St)	E College St															1			Type 5 - 848.06
20	11	SR-1969 (N Church St)	E College St			10												1			Type 3 - 848D0609
1641	11	SR-1969 (N Church St)	E Church St																1		Type 5 - 848.06
14	12	SR-1942 (Jurney St)	SR-1969 (N Church St)			20												1			Type 4B - 848D0610
12	13	SR-1942 (Jurney St)	SR-1942 (N Center St)					8					14						1		Type 1 Modified - 848.06
13	13	SR-1942 (Jurney St)	NE Center St					8					16						1		Type 4B - 848D0610
11	14	SR-1942 (N Center St)	E Park Ave															1			Type 1C - 848.06
107	15	US-117 ALT (N Breazeale Ave)	W Station St			16			12				12					1			Type 3 - 848D0609
108	15	US-117 ALT (N Breazeale Ave)	W Station St															1			Type 1 Modified - 848.06
104	16	US-117 ALT (N Breazeale Ave)	W College St															1			Type 2A Modified - 848.06
105	16	US-117 ALT (N Breazeale Ave)	W College St															1			Type 2A Modified - 848.06
106	16	US-117 ALT (N Breazeale Ave)	W College St						5									1			Type 1A - 848.06
99	17	US-117 ALT (N Breazeale Ave)	W Johnson St															1			Type 4A - 848D0610
100	17	US-117 ALT (N Breazeale Ave)	W Johnson St															1			Type 1 Modified - 848.06
101	17	US-117 ALT (N Breazeale Ave)	W Johnson St															1			Type 1C - 848.06
102	17	US-117 ALT (N Breazeale Ave)	W Johnson St															1			Type 2A - 848.06
Sub-Total				0	0	58	0	8	28	0	0	13	48	0	0	0	0	23	11	1	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.

ADA SUMMARY OF QUANTITIES - MOUNT OLIVE (< 5,000 POPULATION)

Municipality:	Mount Olive
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Wayne

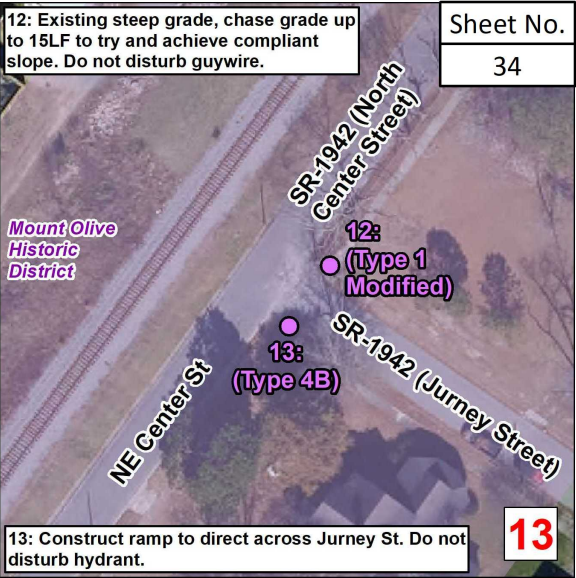
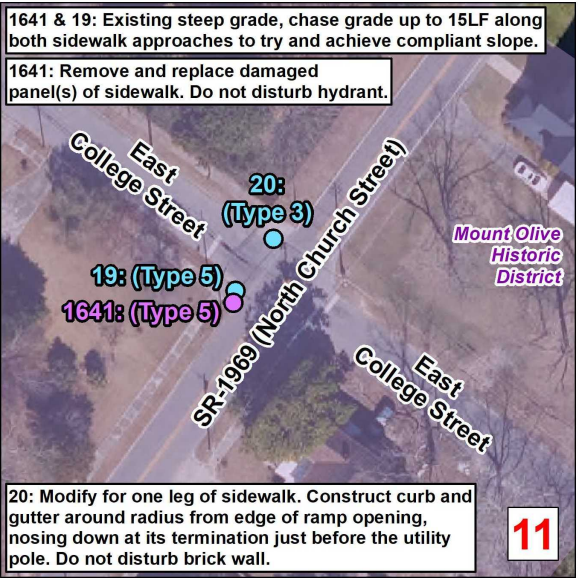
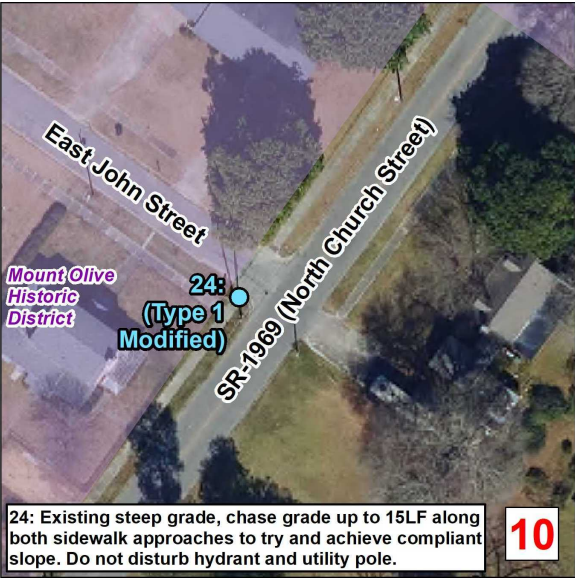
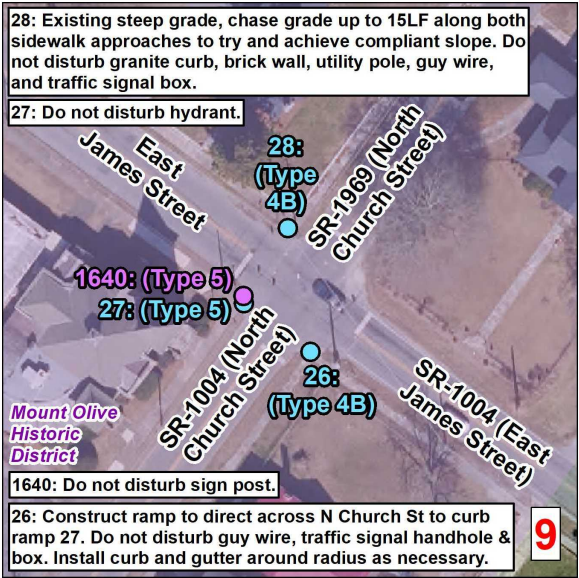
Sheet No.
32

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
1643	17	US-117 ALT (N Breazeale Ave)	W Johnson St						7										1		Type 4A - 848D0610
95	18	US-117 ALT (N Breazeale Ave)	W James St															1			Type 2A - 848.06
96	18	US-117 ALT (N Breazeale Ave)	W James St															1			Type 2A - 848.06
97	18	US-117 ALT (N Breazeale Ave)	W James St															1			Type 1 Modified - 848.06
98	18	US-117 ALT (N Breazeale Ave)	W James St															1			Type 1C - 848.06
56	19	SR-1004 (E Main St)	NE Center St															1			Standard - 848.06
57	19	SR-1004 (E Main St)	SE Center St															1			Type 4C - 848D0610
64	19	SR-1004 (E Main St)	NE Center St					3										1			Type 1 Modified - 848.06
65	19	SR-1004 (E Main St)	SE Center St															1			Type 4C - 848D0610
60	20	SR-1004 (W Main St)	NW Center St									6						1			Type 1 Modified - 848.06
66**	21	SR-1004 (W Main St)	N Chestnut St															1			Type 5 - 848.06
67**	21	SR-1004 (W Main St)	N Chestnut St															1			Type 4A - 848D0610
68	21	SR-1004 (W Main St)	S Chestnut St															1			Type 2A - 848.06
69	21	SR-1004 (W Main St)	S Chestnut St															1			Type 5 - 848.06
71	21	SR-1004 (W Main St)	N Chestnut St																1		Type 5 - 848.06
1642	21	SR-1004 (W Main St)	S Chestnut St																1		Type 5 - 848.06
72	21	SR-1004 (W Main St)	N Chestnut St						5				8						1		Type 4A - 848D0610
74	22	US-117 ALT (S Breazeale Ave)	SR-1004 (W Main St)															1			Type 2A Modified - 848.06
75	22	US-117 ALT (N Breazeale Ave)	SR-1004 (W Main St)															1			Type 2A Modified - 848.06
76	22	US-117 ALT (N Breazeale Ave)	SR-1141 (W Main St)															1			Type 2A - 848.06
77	22	US-117 ALT (S Breazeale Ave)	SR-1141 (W Main St)															1			Type 2A - 848.06
79	23	SR-1141 (W Main Street)	N Southerland St															1			Type 2A - 848.06
80	23	SR-1141 (W Main Street)	N Southerland St															1			Type 1 Modified - 848.06
81	23	SR-1141 (W Main Street)	S Southerland St															1			Type 1C - 848.06
82	23	SR-1141 (W Main Street)	S Southerland St															1			Type 2A - 848.06
84	24	SR-1141 (W Main St)	N Martin St															1			Type 1 Modified - 848.06
85	24	SR-1141 (W Main St)	N Martin St									6						1			Type 1C - 848.06
87	24	SR-1141 (W Main St)	S Martin St															1			Type 1 Modified - 848.06
93	25	SR-1141 (W Main St)	Wooten St												1			1			Type 2B - 848.06
-	-	-	-	-	16*	-	-	192*	-	-	-	81*	-	-	-	-	-	-	-	-	
Sub-Total				0	16	0	0	195	12	0	0	93	8	0	1	0	0	25	4	0	
Sub-Total for Mount Olive				0	16	58	0	203	40	0	0	106	56	0	1	0	0	48	15	1	

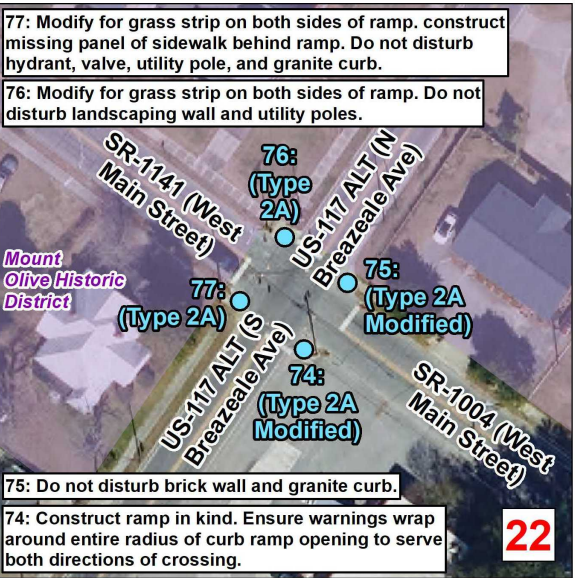
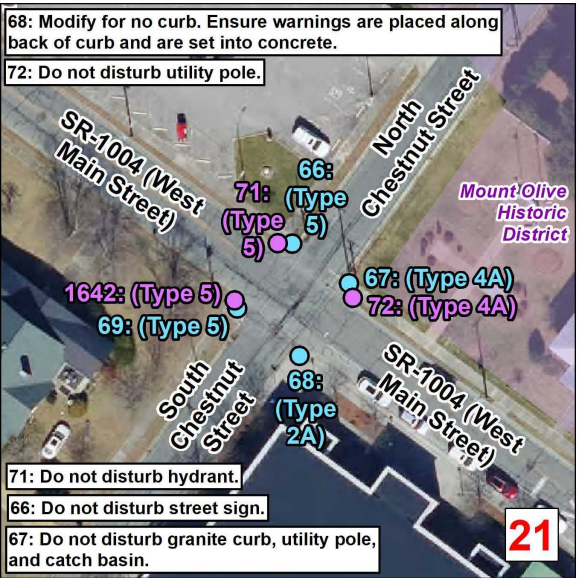
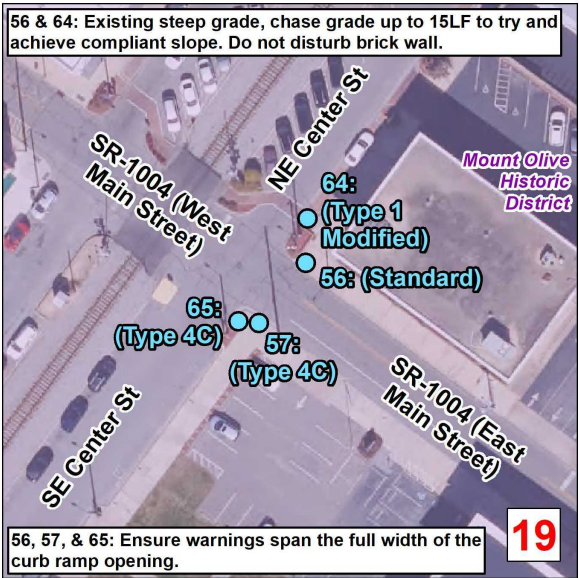
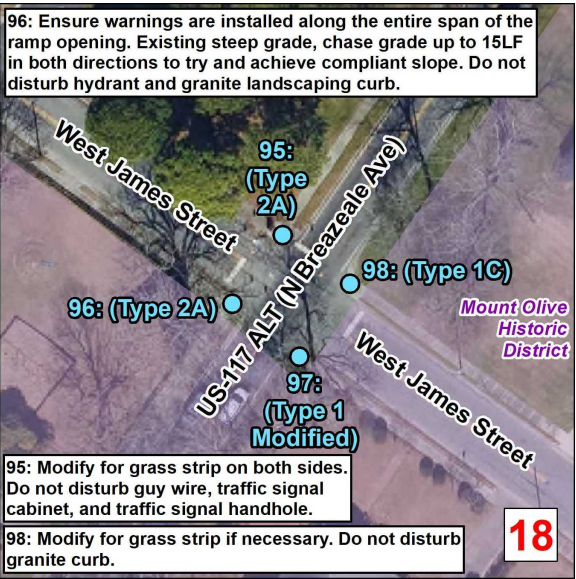
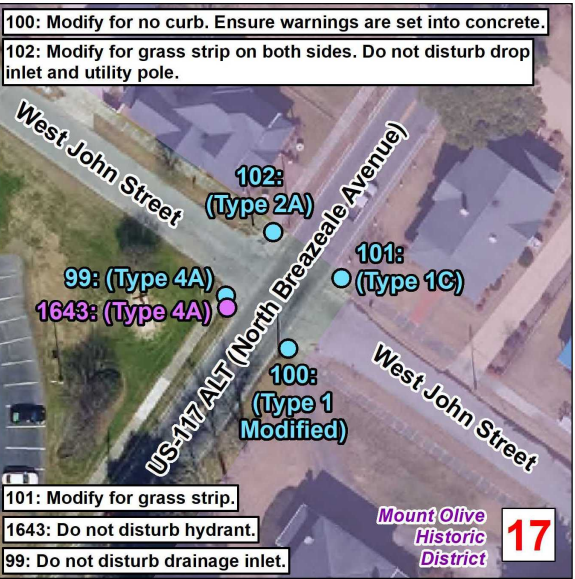
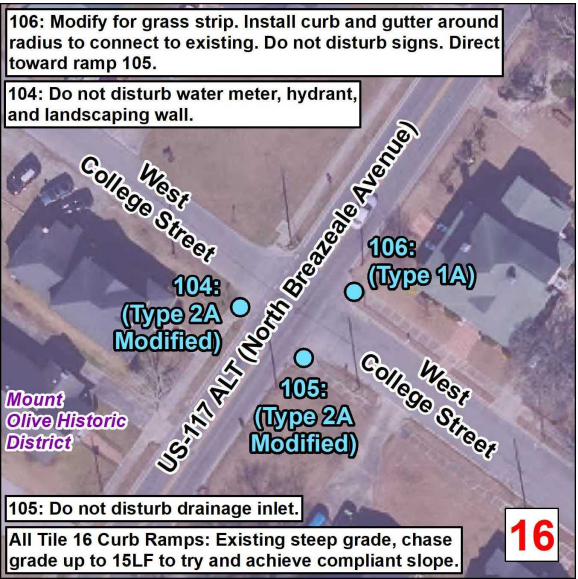
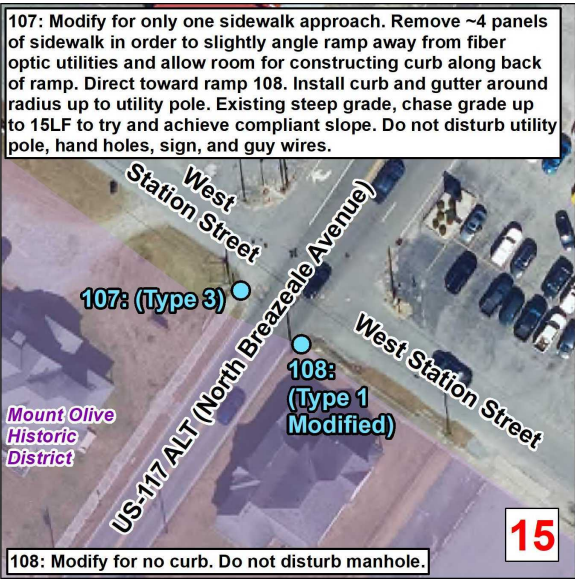
*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Sheet No.
34



Curb Ramps To Be Repaired

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

▭ Municipal Boundary

▭ Census Urban Areas (>5,000 Pop)

▭ NCHPO Historic Boundary (NR and LHD)

Curb Ramps in Areas <5,000 Population

Municipality: Mount Olive

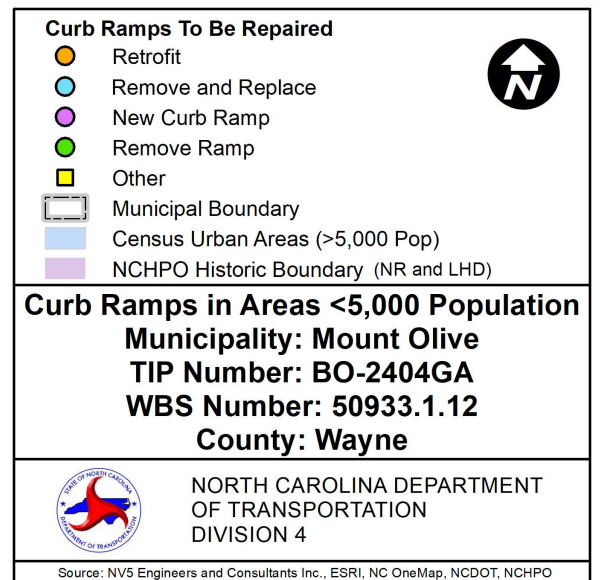
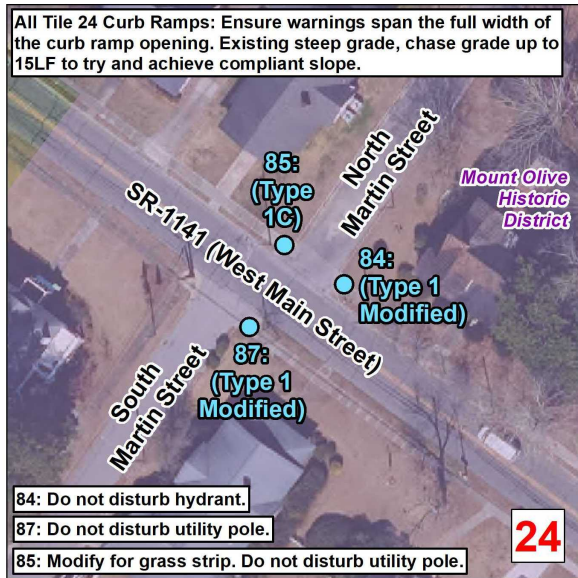
TIP Number: BO-2404GA

WBS Number: 50933.1.12

County: Wayne

 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 4

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



ADA SUMMARY OF QUANTITIES - PIKEVILLE (< 5,000 POPULATION)

Municipality:	Pikeville
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Wayne

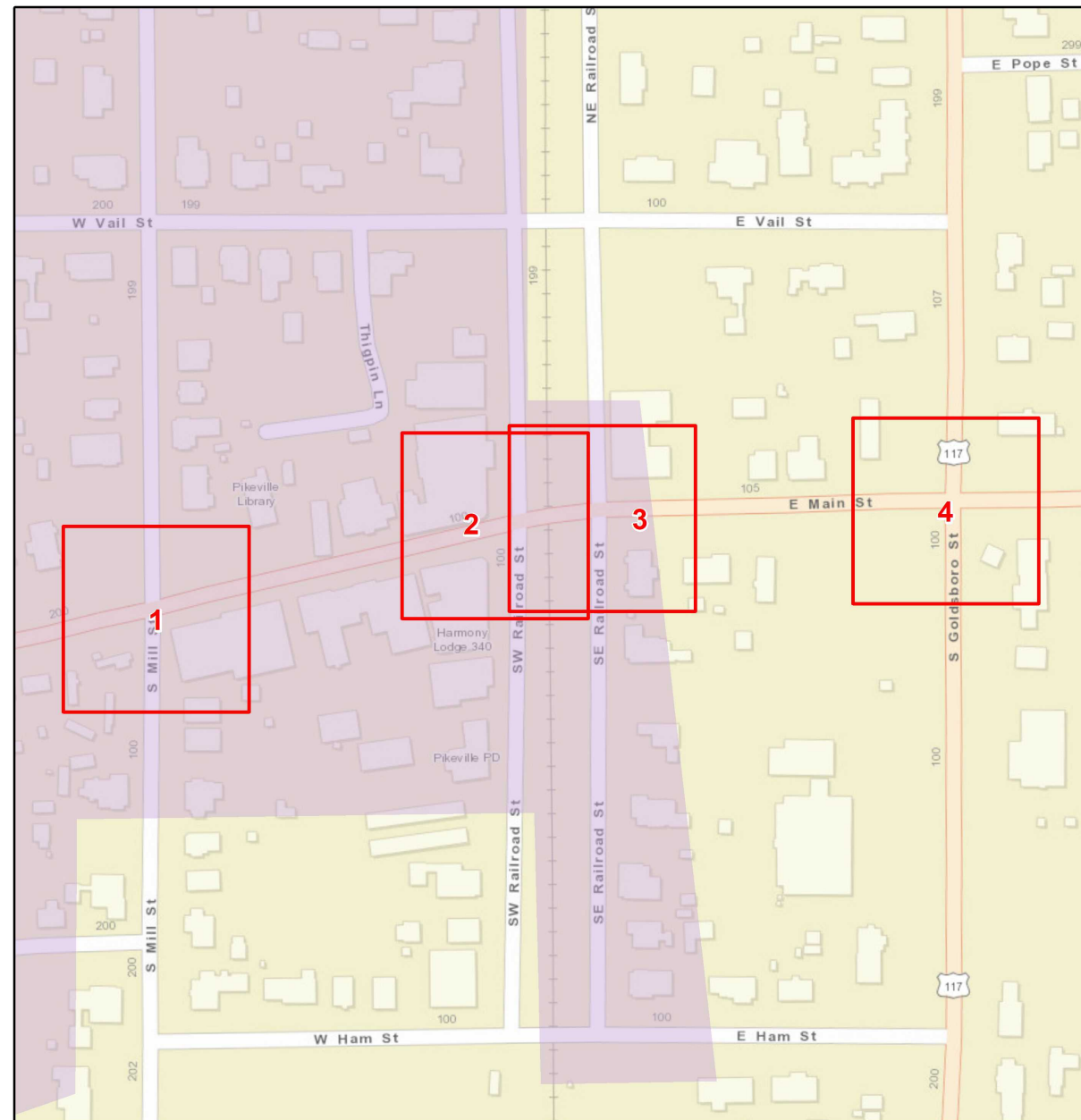
Sheet No.
36

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
386	1	SR-1002 (West Main Street)	South Mill Street															1			Type 1A - 848.06
383	2	SR-1002 (West Main Street)	Northwest Railroad Street														1				Retrofit Warnings - 848.06
380	3	SR-1002 (East Main Street)	Southeast Railroad Street															1			Type 1 Modified - 848.06
377	4	SR-1002 (East Main Street)	US-117 (South Goldsboro Street)												1			1			Type 1 Modified - 848.06
-	-	-	-	-	1*	-	-	12*	-	-	-	3*	-	-	-	-	-	-	-	-	
Sub-Total for Pikeville				0	1	0	0	12	0	0	0	3	0	0	1	0	1	3	0	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



386: Reconstruct ramp opening in kind, ensuring warnings are installed along back of curb spanning the full width of the depressed curb ramp opening. Retain sloped portion of ramp on East side of existing expansion joint in an effort to retain downspout pipe running underneath sidewalk toward catch basin.

383: Carefully sawcut around perimeter of existing detectable warning and remove them. Retrofit new detectable warning by setting them into concrete, ensuring that their placement is in alignment with the existing curb cut and that the surface of the ramp including the warnings are flush and free of any vertical faults.

Northwest
Railroad Street

Northeast
Railroad Street

Southwest
Railroad Street

Southeast
Railroad Street

SR-1002 (West Main Street)

SR-1002 (East Main Street)

Pikeville Historic District

380:
(Type 1 Modified)

3

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

377: Adjust valve if necessary.

SR-1002 (East Main Street)

US-117 (North Goldsboro Street)

US-117 (South Goldsboro Street)

SR-1534 (Big Daddys Road)

377: (Type 1 Modified)

4

Curb Ramps To Be Repaired  Retrofit  Remove and Replace  New Curb Ramp  Remove Ramp  Other  Municipal Boundary  Census Urban Areas (>5,000 Pop)  NCHPO Historic Boundary (NR and LHD)		
Curb Ramps in Areas <5,000 Population Municipality: Pikeville TIP Number: BO-2404GA WBS Number: 50933.1.12 County: Wayne		
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 4		
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO		

ADA SUMMARY OF QUANTITIES - UNINCORPORATED AREAS - WAYNE COUNTY (< 5,000 POPULATION)

Municipality:	Unincorporated Areas
TIP Number:	BO-2404GA
WBS Number:	50933.1.12
County:	Wayne

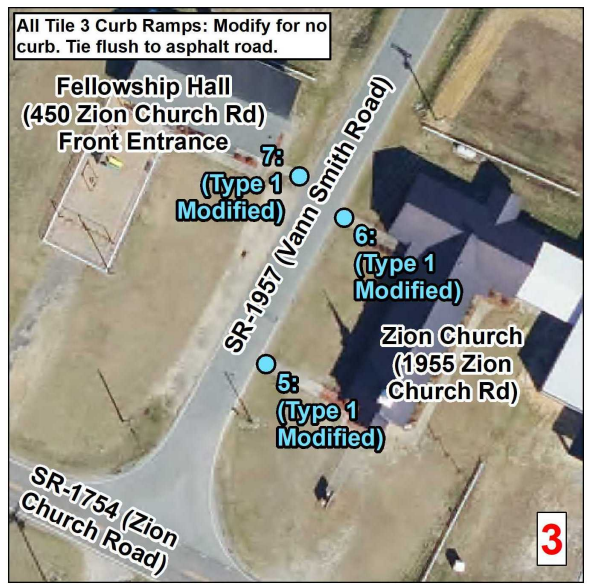
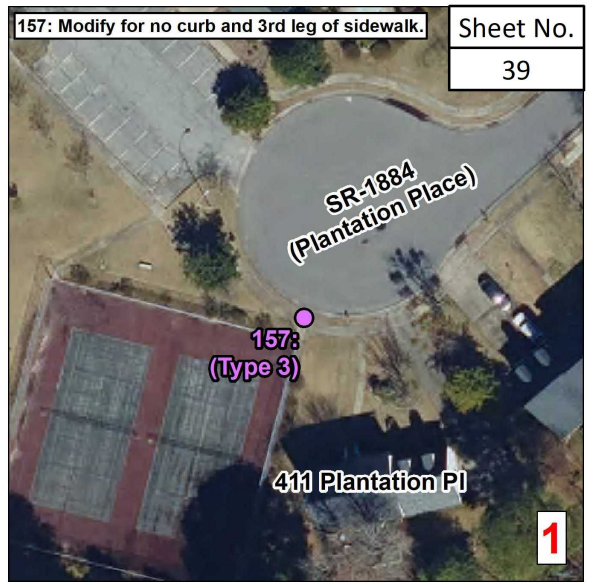
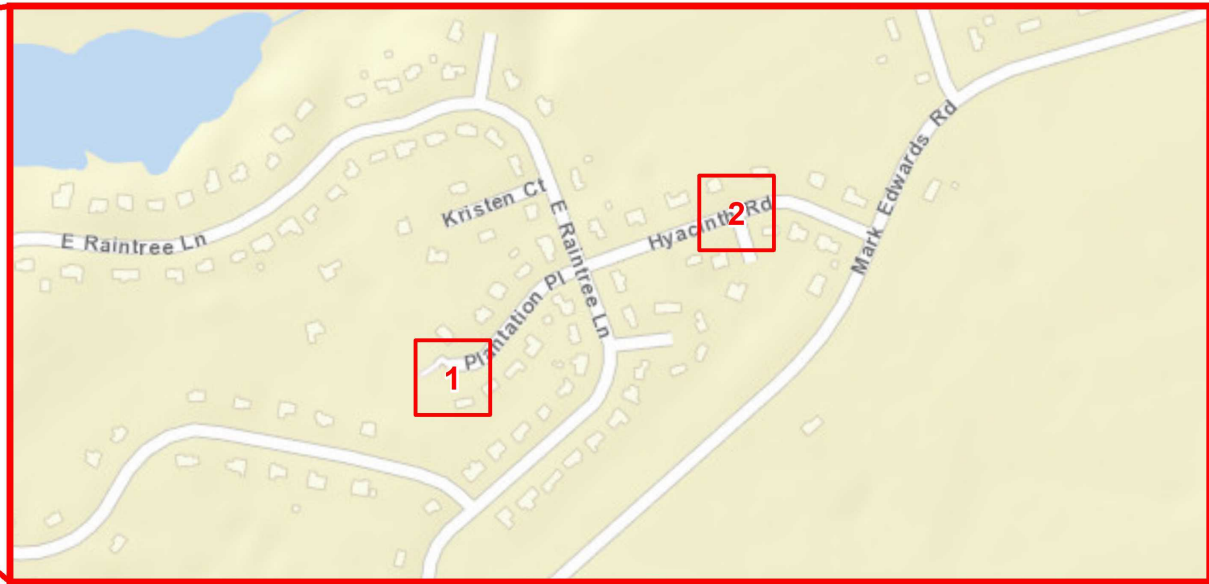
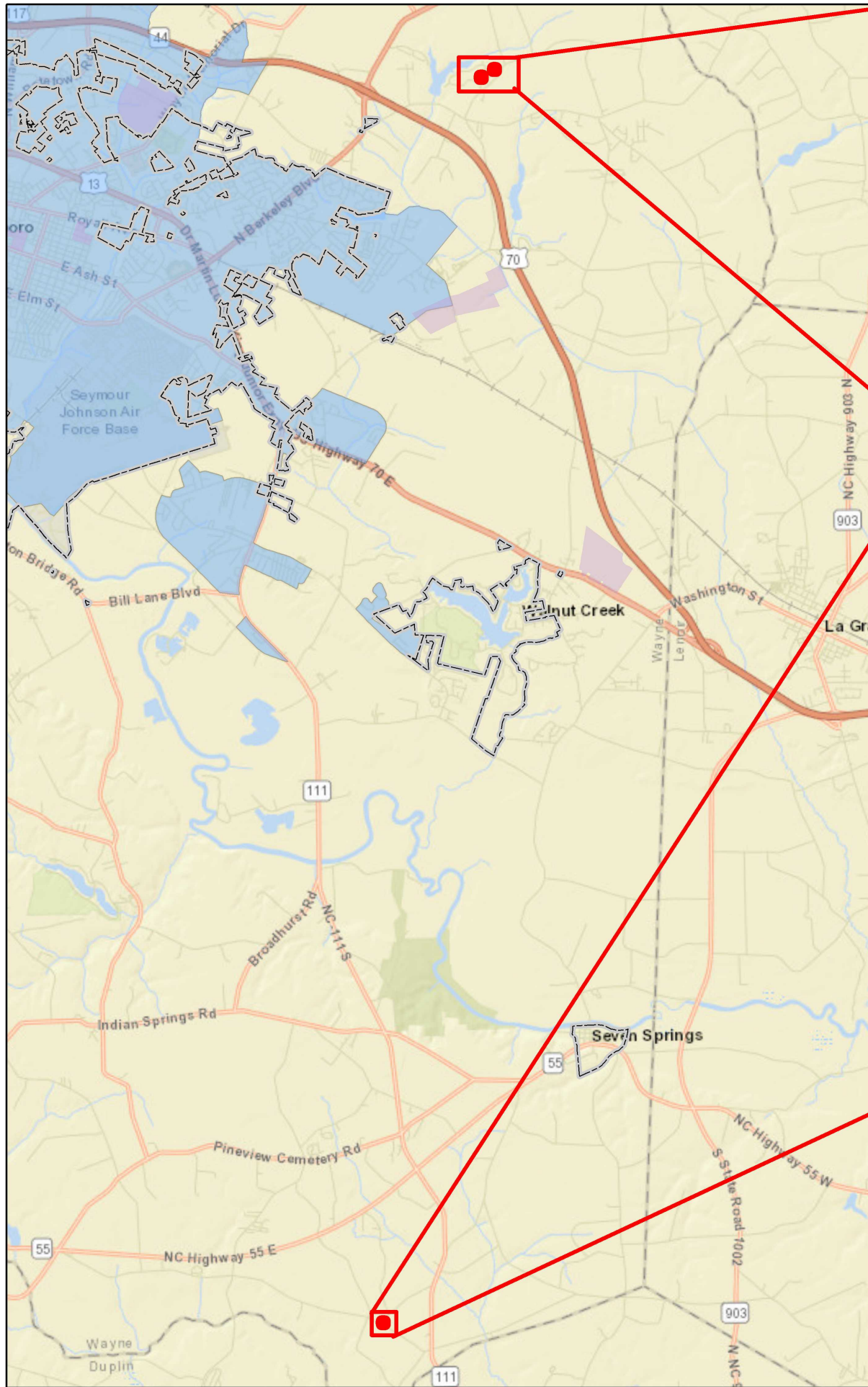
Sheet No.
38

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
157	1	SR-1884 (Plantation Place)	411 Plantation Pl				6			10			11						1		Type 3 - 848D0609
168	2	SR-2209 (Hyacinth Road)	SR-2210 (Orchid Row)															1			Type 1 Modified - 848.06
169	2	SR-2209 (Hyacinth Road)	SR-2210 (Orchid Row)															1			Type 1 Modified - 848.06
5	3	SR-1957 (Vann Smith Rd)	Zion Church (1955 Zion Church Rd)															1			Type 1 Modified - 848.06
6	3	SR-1957 (Vann Smith Rd)	Zion Church (1955 Zion Church Rd)															1			Type 1 Modified - 848.06
7	3	SR-1957 (Vann Smith Rd)	Fellowship Hall (450 Zion Church Rd) Front Entrance															1			Type 1 Modified - 848.06
-	-	-	-	-	2*	-	-	20*	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Unincorporated Areas - Wayne County				0	2	0	6	20	0	10	0	0	11	0	0	0	0	5	1	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Curb Ramps To Be Repaired

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

Municipal Boundary

Census Urban Areas (>5,000 Pop)

NCHPO Historic Boundary (NR and LHD)

Curb Ramps in Areas <5,000 Population

Municipality: Unincorporated Areas

TIP Number: BO-2404GA

WBS Number: 50933.1.12

County: Wayne

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 4

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

ADA SUMMARY OF QUANTITIES - FOUR OAKS (5,000 - 50,000 POPULATION)

Municipality:	Four Oaks
TIP Number:	BO-2404GB
WBS Number:	50933.1.13
County:	Johnston

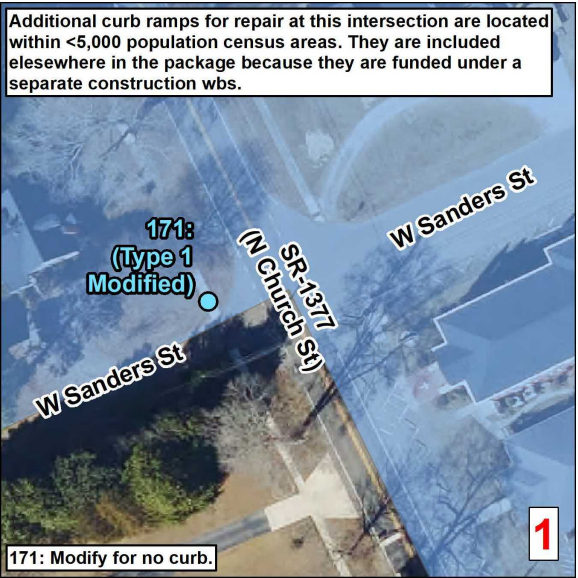
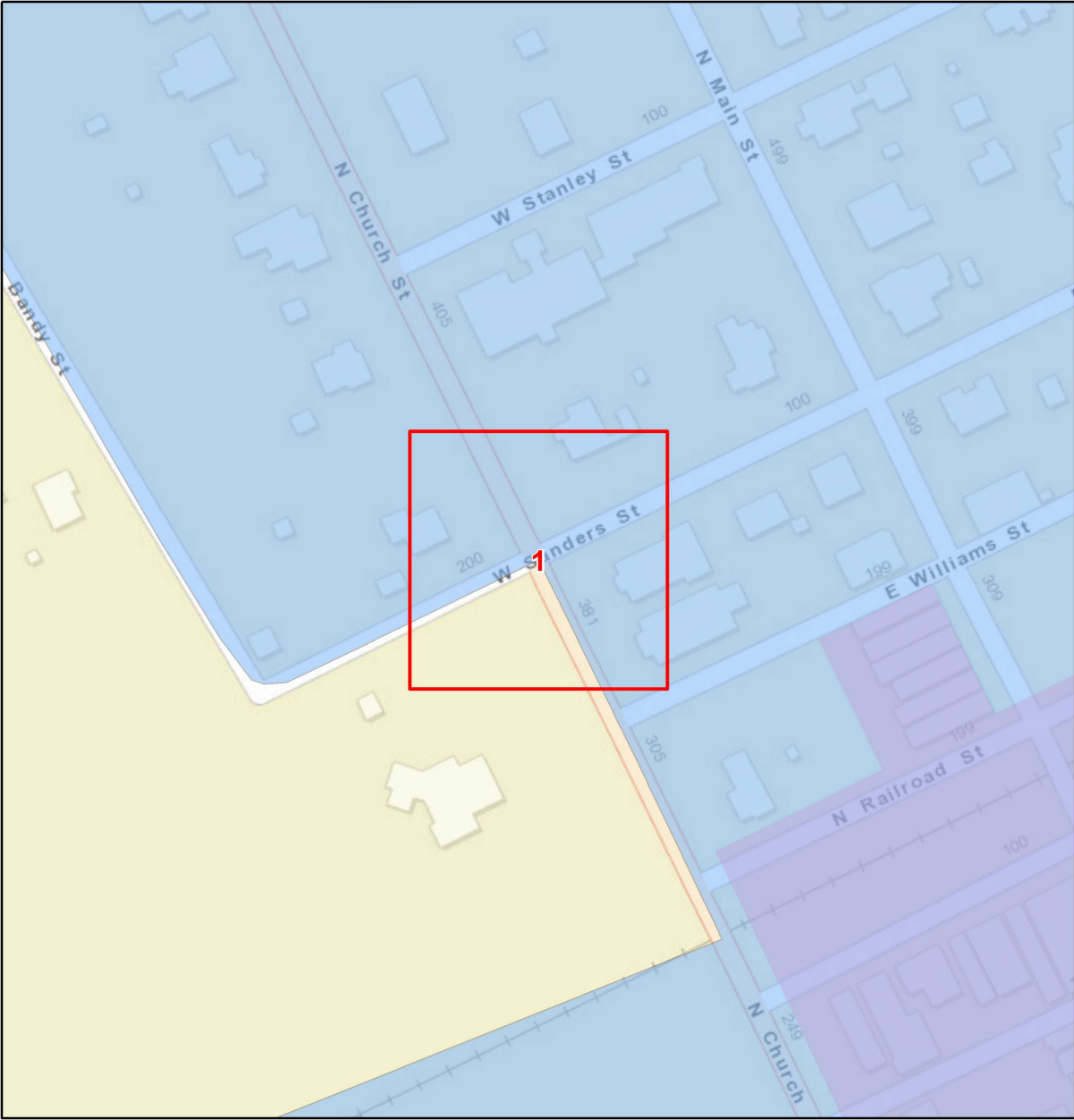
Sheet No.
40

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
171	1	SR-1377 (N Church St)	W Sanders St															1			Type 1 Modified - 848.06
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Four Oaks				0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.



Curb Ramps To Be Repaired - Retrofit - Remove and Replace - New Curb Ramp - Remove Ramp - Other Census Urban Areas (>5,000 Pop) NCHPO Historic Boundary (NR and LHD)	
Curb Ramps in Areas 5K - 50K Population Municipality: Four Oaks TIP Number: BO-2404GB WBS Number: 50933.1.13 County: Johnston	
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 4	
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO	

ADA SUMMARY OF QUANTITIES - ARCHER LODGE (50,000 - 200,000 POPULATION)

Municipality:	Archer Lodge
TIP Number:	BO-2404GC
WBS Number:	50933.1.14
County:	Johnston

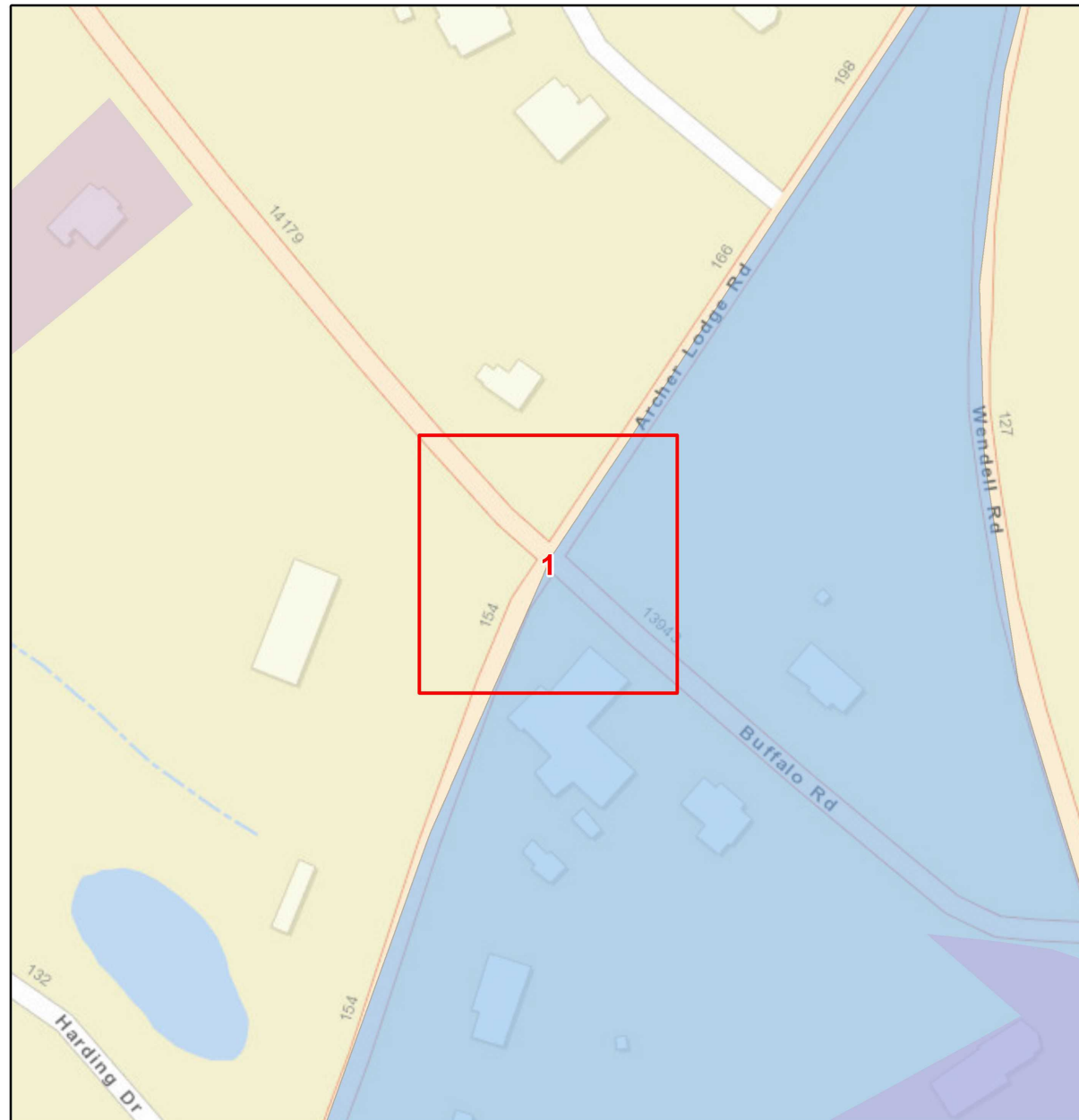
Sheet No.
42

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2580000000-E (LF) Concrete Valley Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove Concrete Valley Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2738000000-E (SY) Remove and Reset Brick Pavers	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	0995000000-E (LF) Pipe Removal	2612300000-N (EA) Retrofit Existing Concrete Curb Ramps	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2605000000-N (EA) Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
1552	1	SR-1702 (Archer Lodge Rd)	SR-1003 (Buffalo Rd)	2									6						1		Type 2B - 848.06
-	-	-	-	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sub-Total for Archer Lodge				2	1	0	0	0	0	0	0	0	6	0	0	0	0	0	1	0	

*Contingency line item amount provided for additional adjustments outside of curb ramp pay limits, as needed.

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

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted. (3) In accordance with PROWAG Sections R304.2.1 and R304.3.1, curb ramp running slope is to be constructed to a maximum of 8.33%. Where the curb ramp length must exceed 15 feet to achieve an 8.33% running slope, the curb ramp length shall extend at least 15 feet and may have a running slope greater than 8.33%.

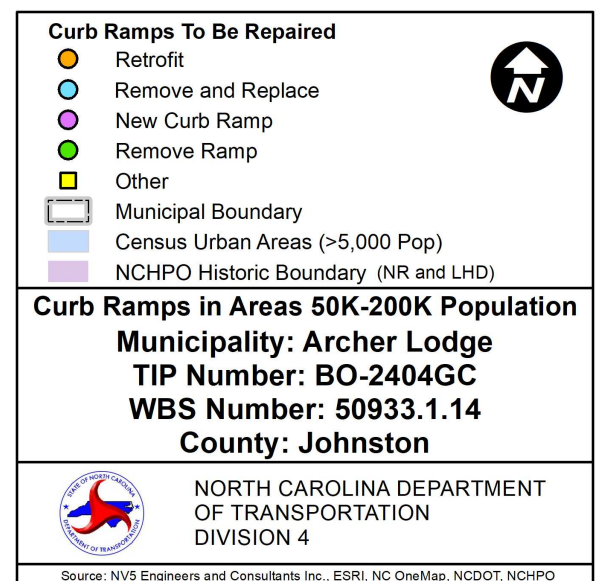


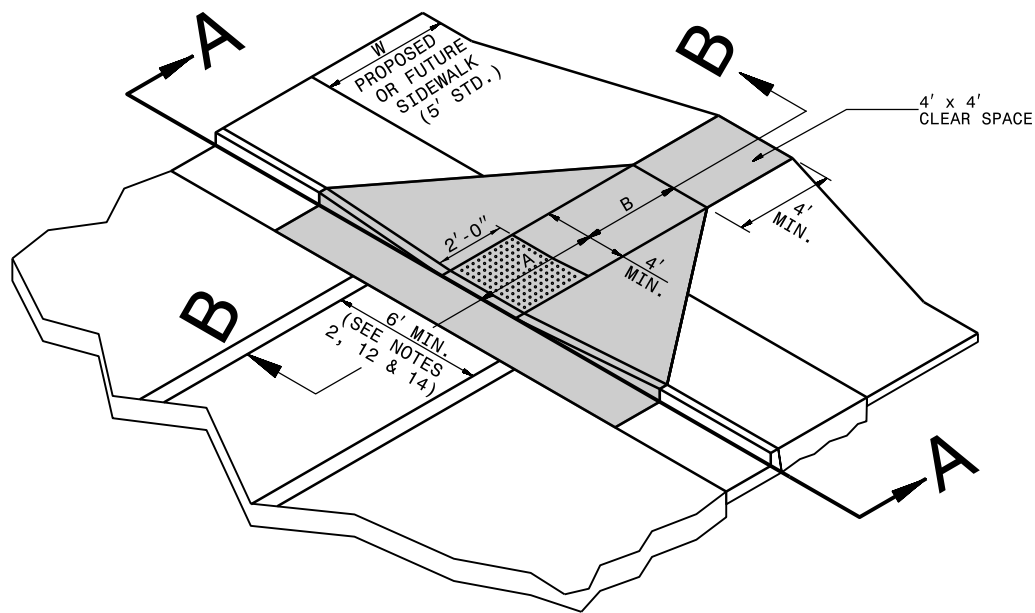
Additional curb ramps for repair at this intersection are located within <5,000 population census areas. They are included elsewhere in the package because they are funded under a separate construction WBS.



1552: Do not disturb stop sign. Construct ramp to direct towards proposed curb ramp at SW corner of intersection. Modify for 4ft sidewalk width.

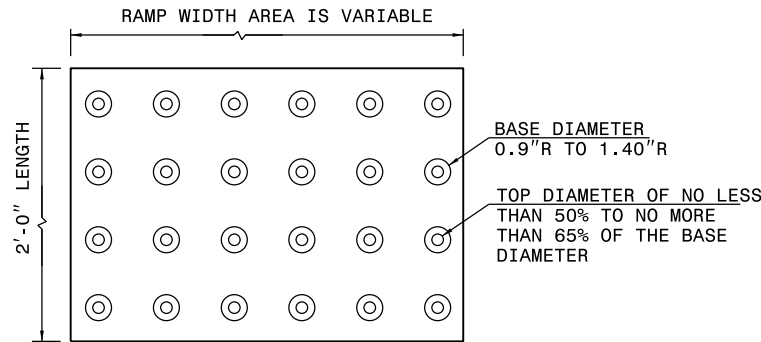
1





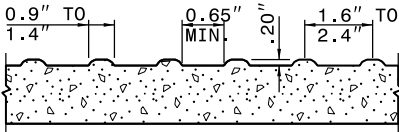
PAY LIMITS FOR CURB RAMP

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

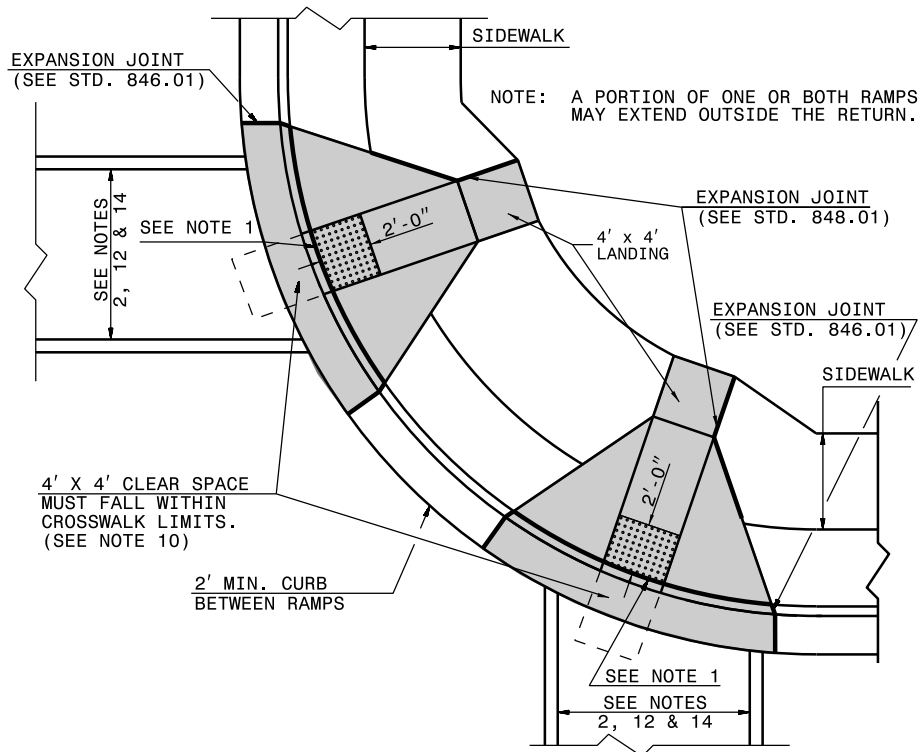
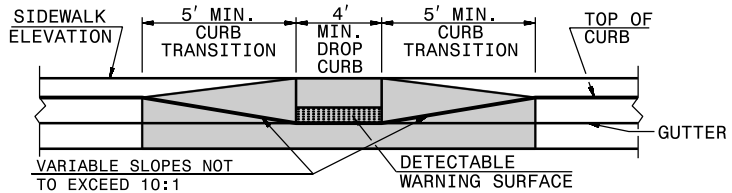
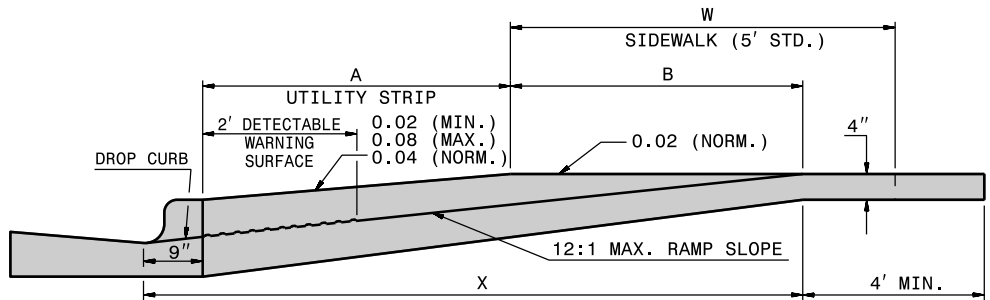


W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'**
7'	0.0'	7.8'	7.3'	6.5'**
8'	0.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

$B = X - (A + 9")$
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.



DETECTABLE WARNING SURFACE



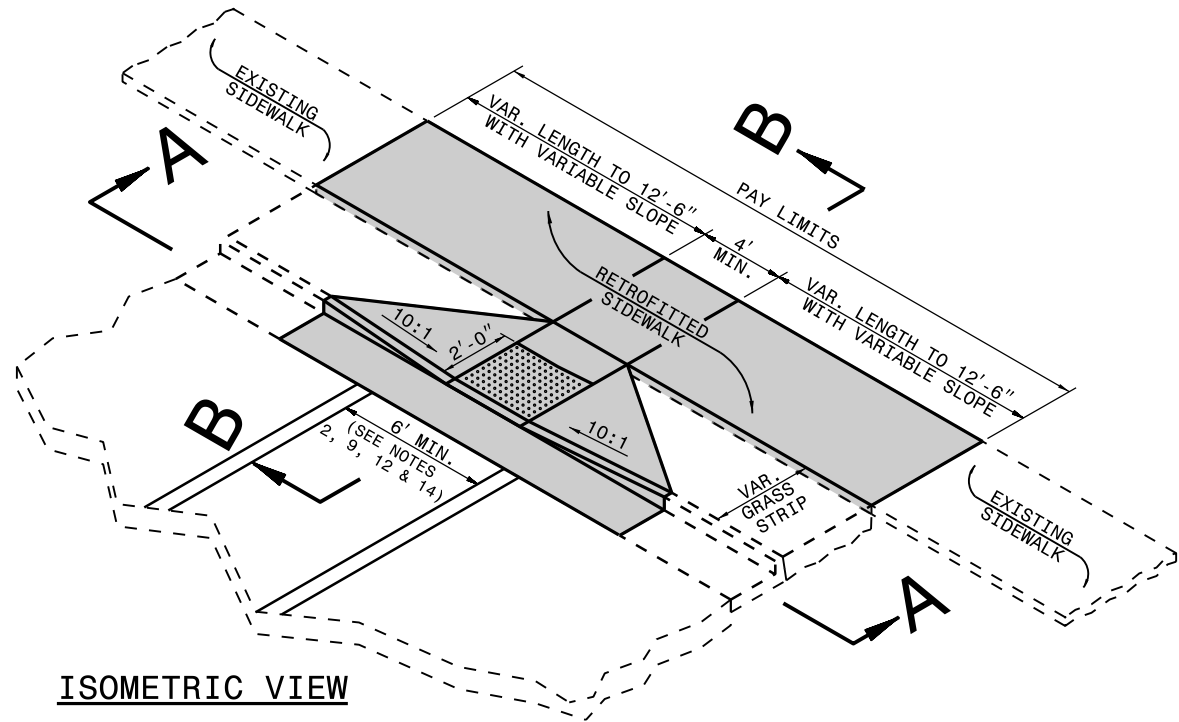
PLAN VIEW
DUAL RAMPS
ANY RADII
(4' MIN. FLOOR WIDTH)

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

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PROPOSED CURB AND GUTTER

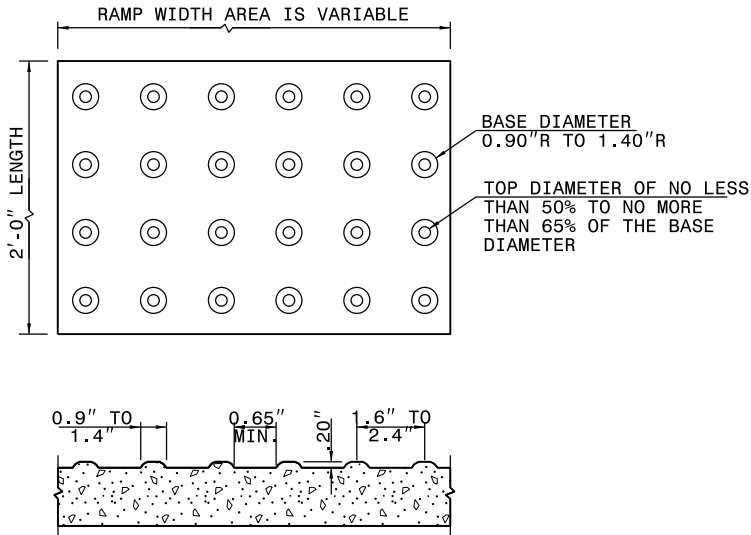
SHEET 1 OF 13

848.06



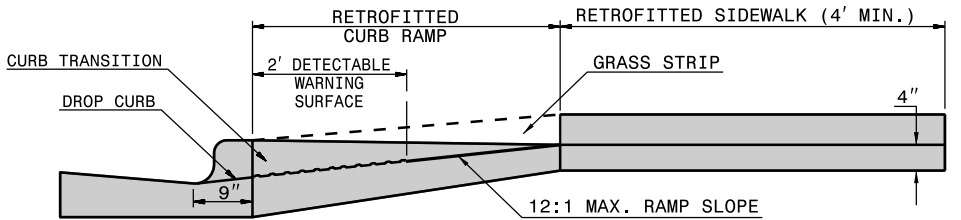
ISOMETRIC VIEW

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

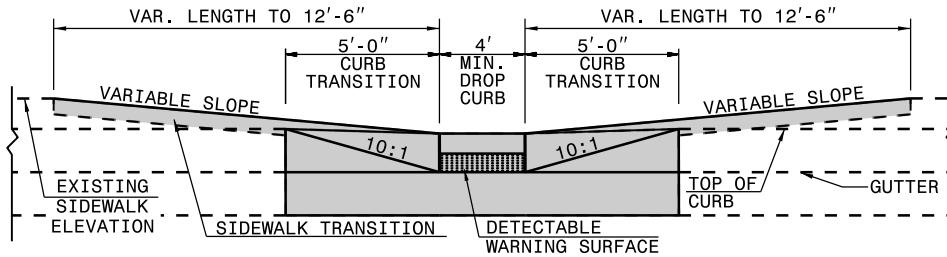


DETECTABLE WARNING SURFACE

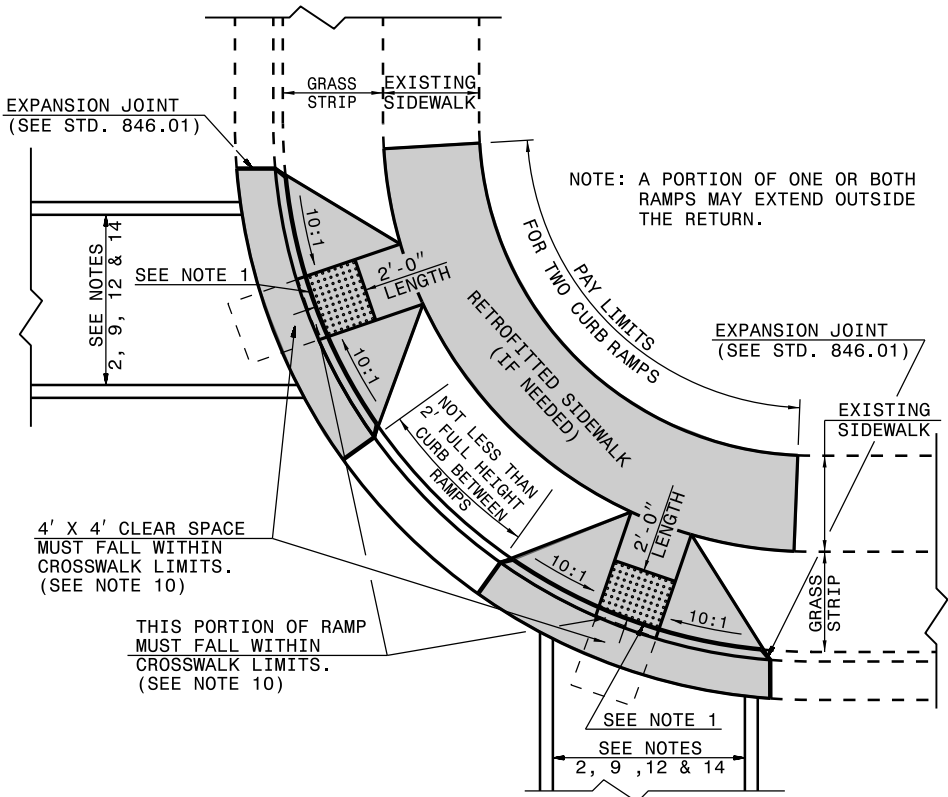
PAY LIMITS OF CURB RAMP



SECTION B-B



SECTION A-A



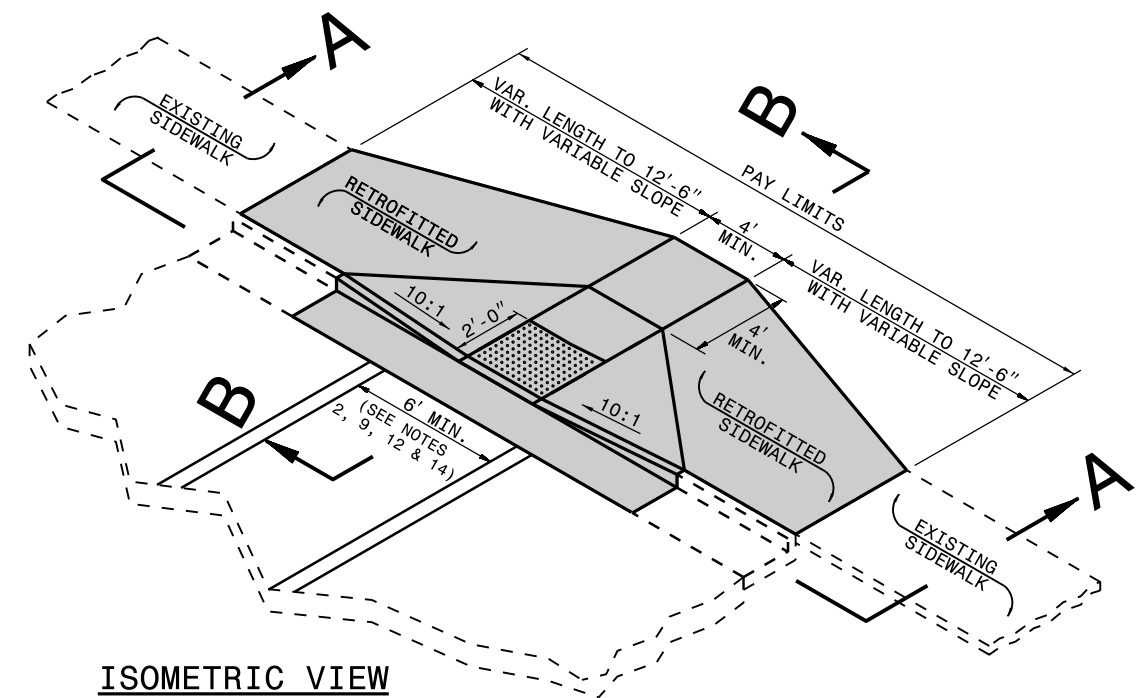
PLAN VIEW

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

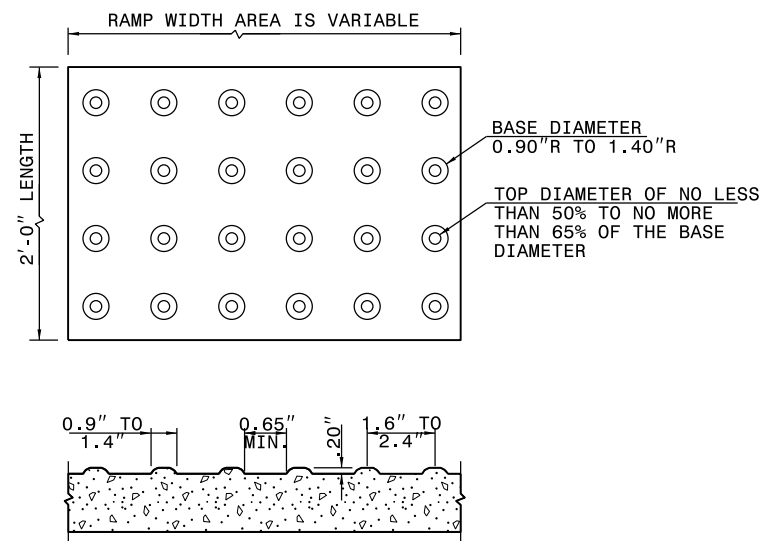
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMP
CURB RAMP AND EXISTING SIDEWALK
WITH GRASS STRIP

SHEET 2 OF 13
848.06

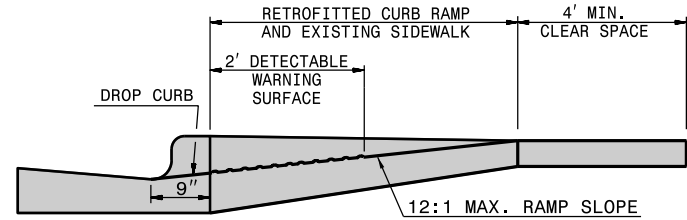


NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

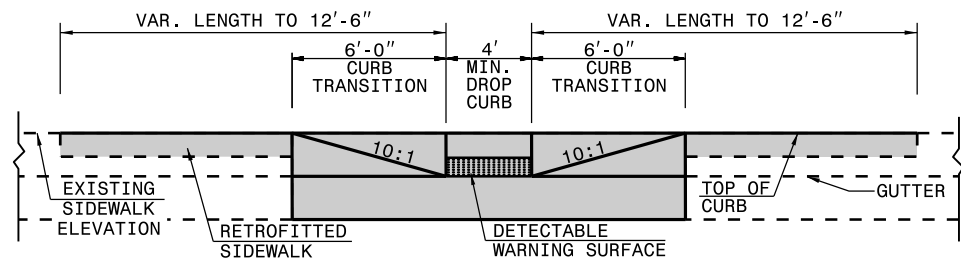


DETECTABLE WARNING SURFACE

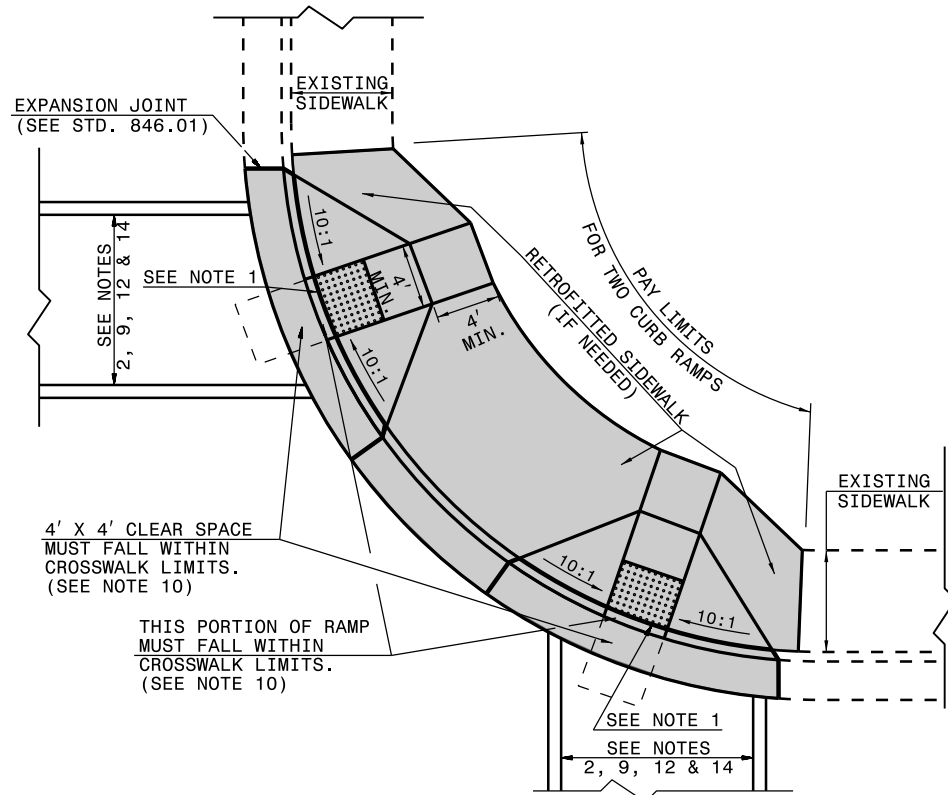
PAY LIMITS OF CURB RAMP



SECTION B-B



SECTION A-A

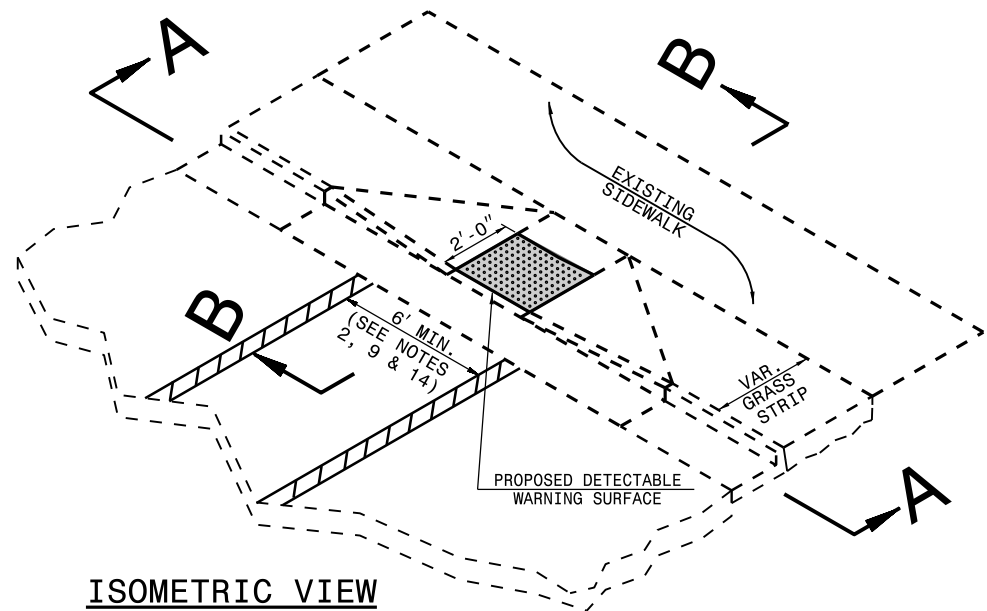


PLAN VIEW

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

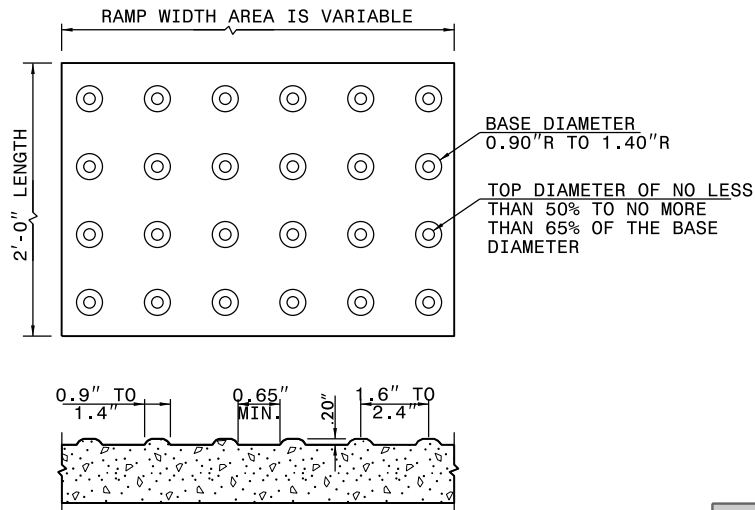
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMP
CURB RAMP AND EXISTING SIDEWALK
ADJACENT TO CURB



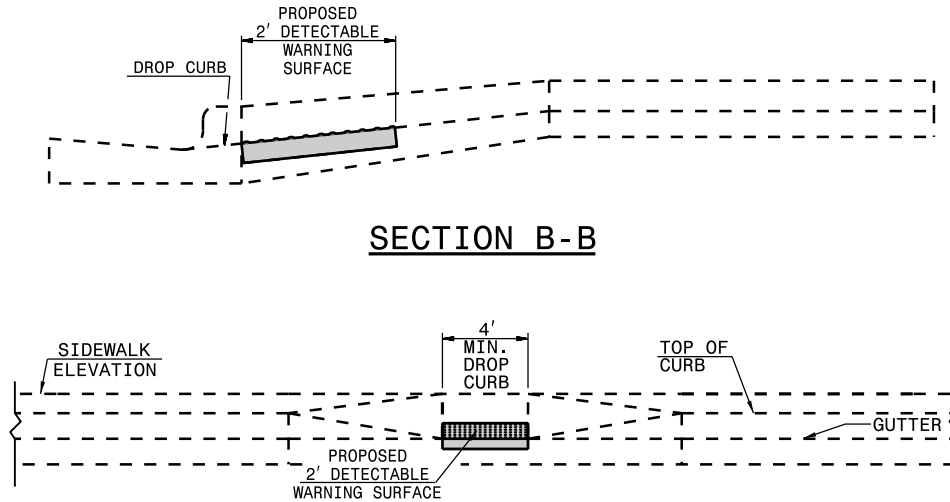
ISOMETRIC VIEW

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

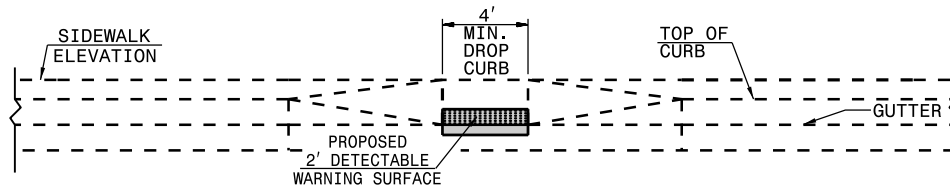


DETECTABLE WARNING SURFACE

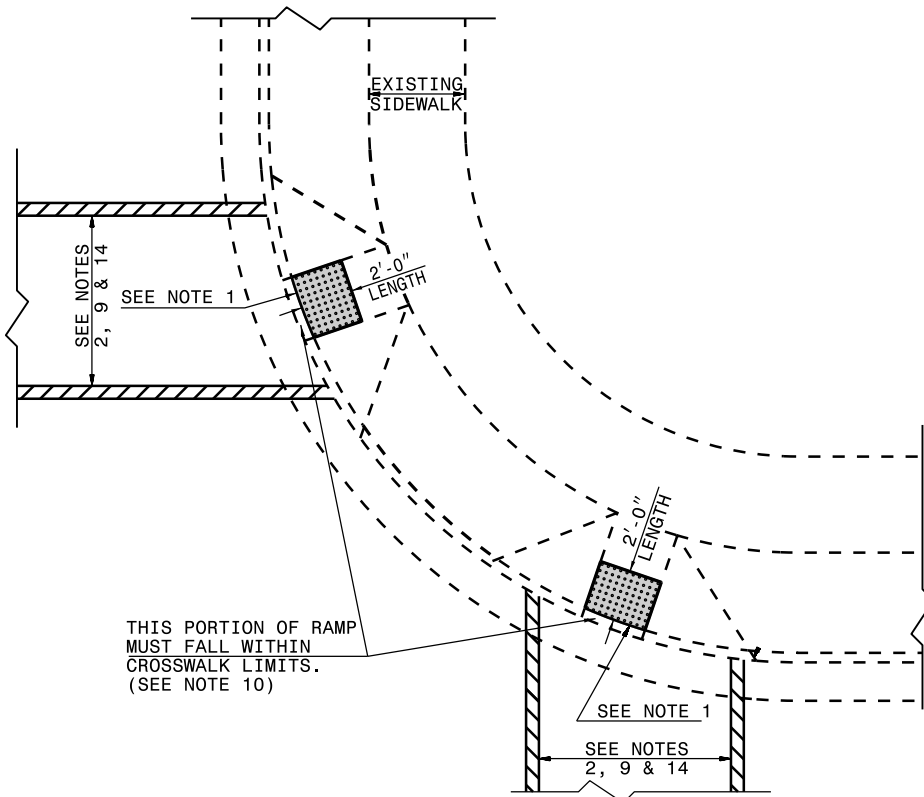
PAY LIMITS OF RETROFIT CURB RAMP



SECTION B-B



SECTION A-A



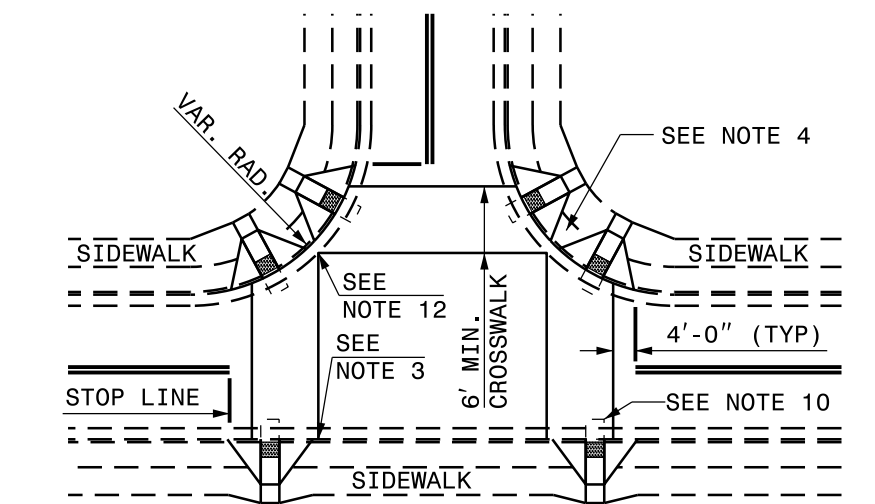
PLAN VIEW

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

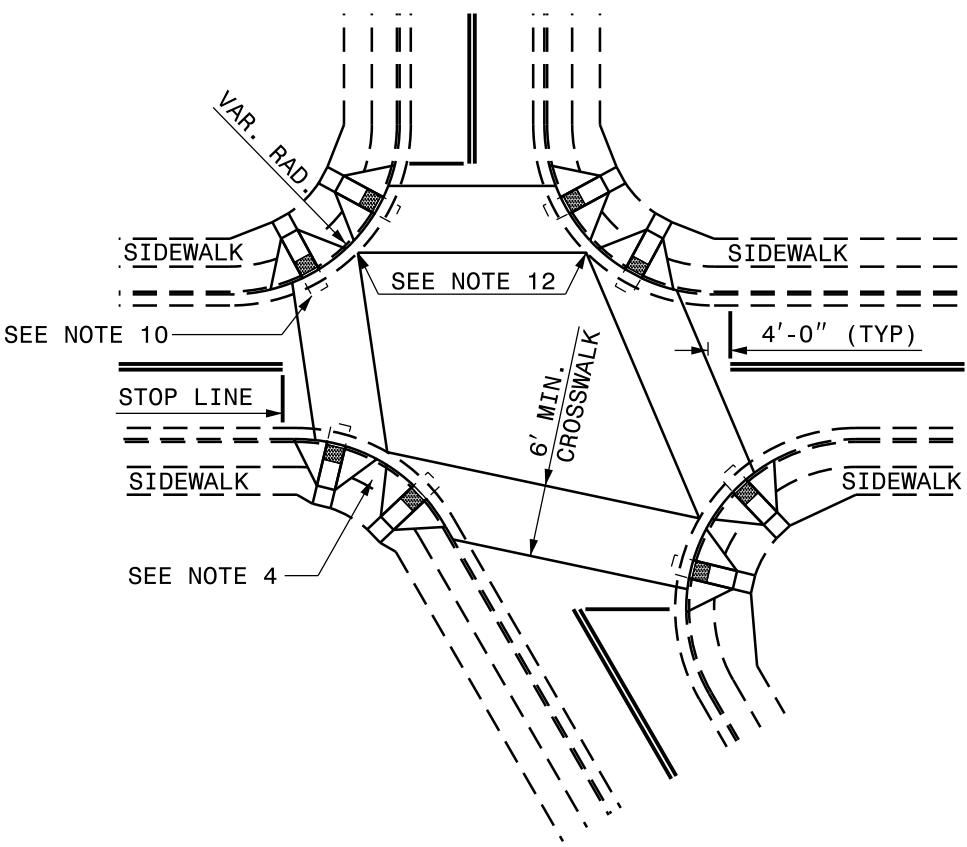
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMP
RETROFITTING DETECTABLE WARNING SURFACE
ONTO EXISTING CURB RAMP

SHEET 4 OF 13
848.06

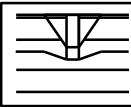
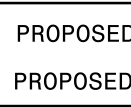


DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS,
PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS

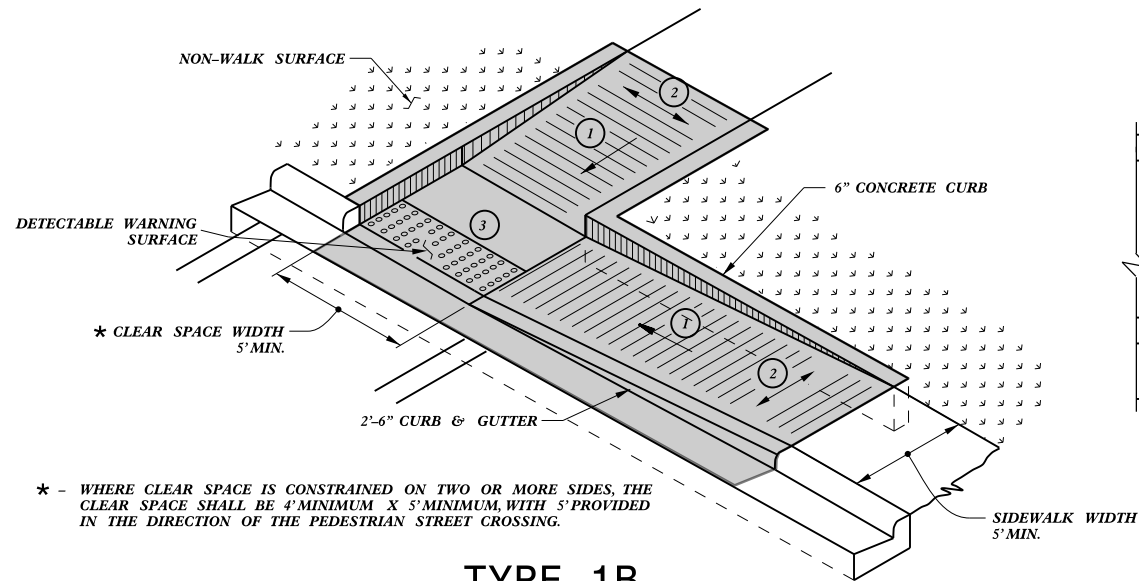


DETAIL SHOWING TYPICAL LOCATION OF CURB
RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

ROADWAY
PLAN SYMBOL
CR
FOR PROPOSED
CURB RAMP

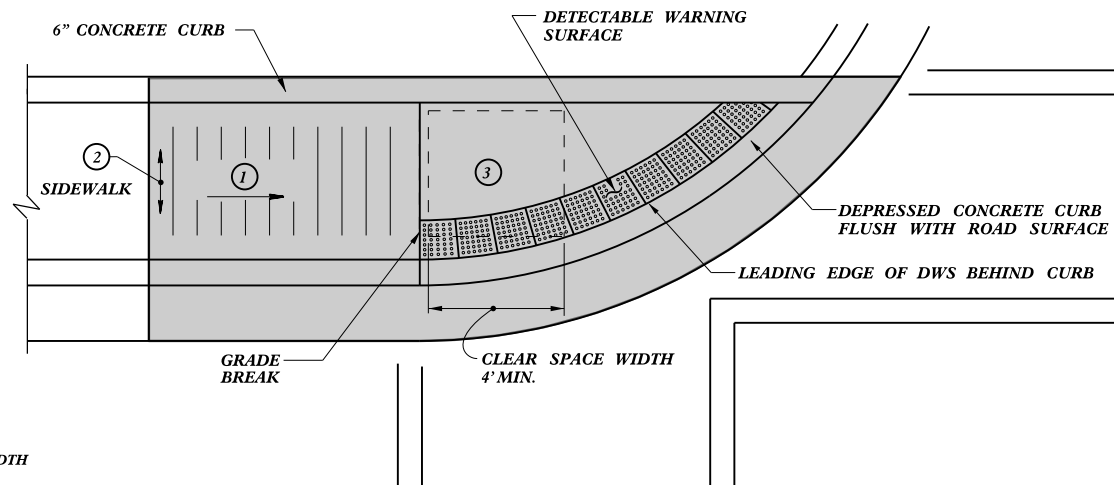
 PROPOSED CURB RAMP W/ CLEAR SPACE
 PROPOSED OR FUTURE SIDEWALK

ALLOWABLE LOCATIONS
DUAL RAMP RADII.....ANY



* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 1B

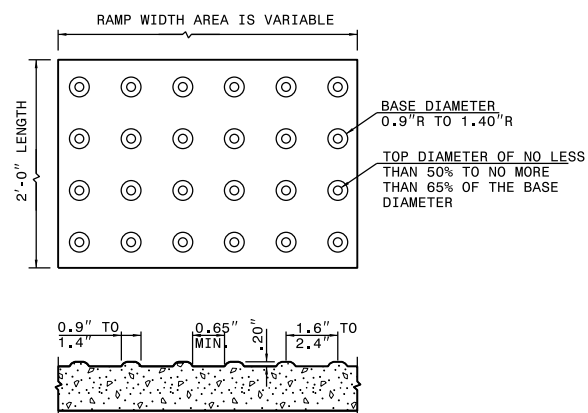


TYPE 1C

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%.

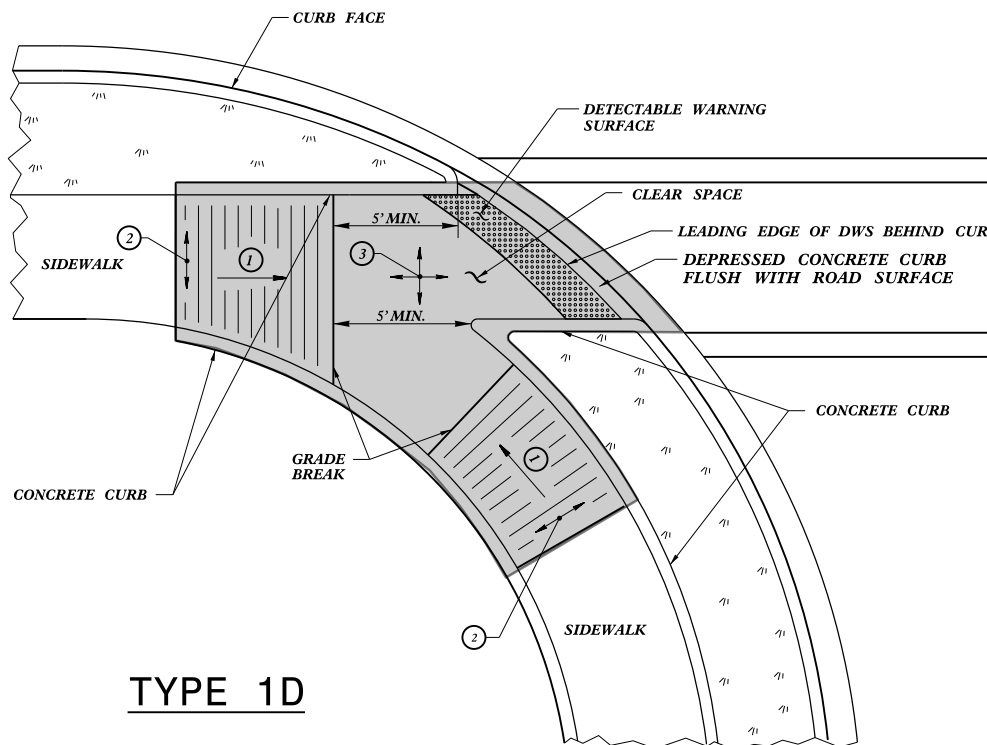
NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

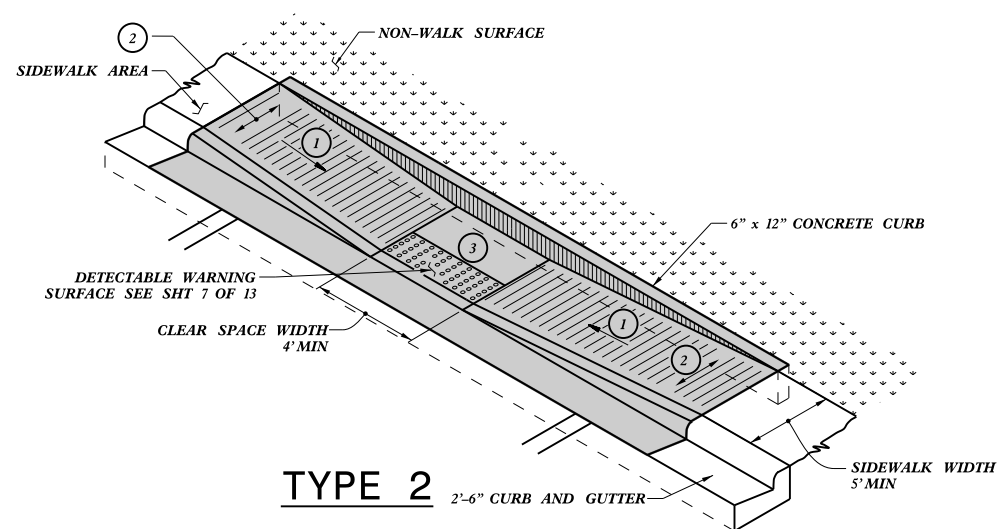
PAY LIMITS FOR 1 CURB RAMP



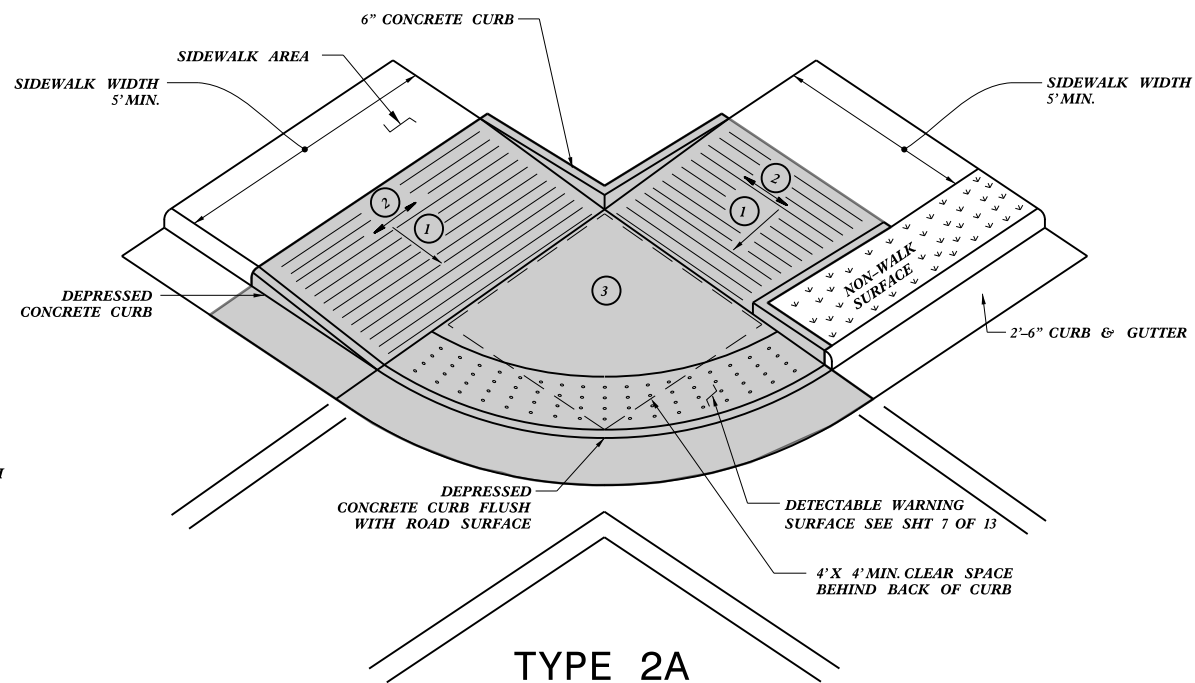
TYPE 1D

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

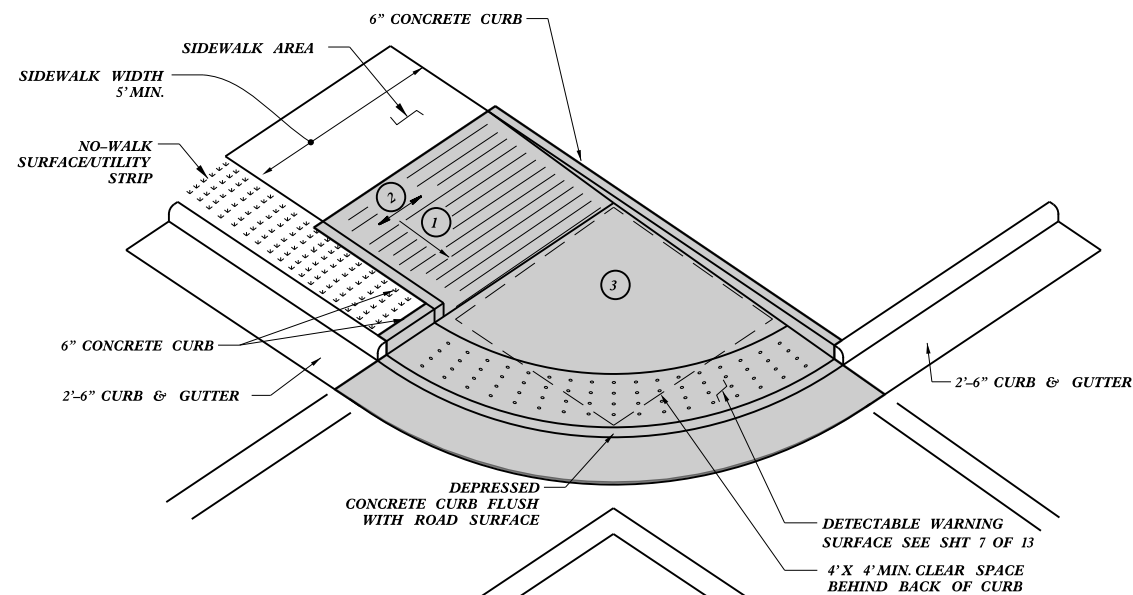
ROADWAY STANDARD DRAWING FOR
CURB RAMP
DIRECTIONAL RAMP



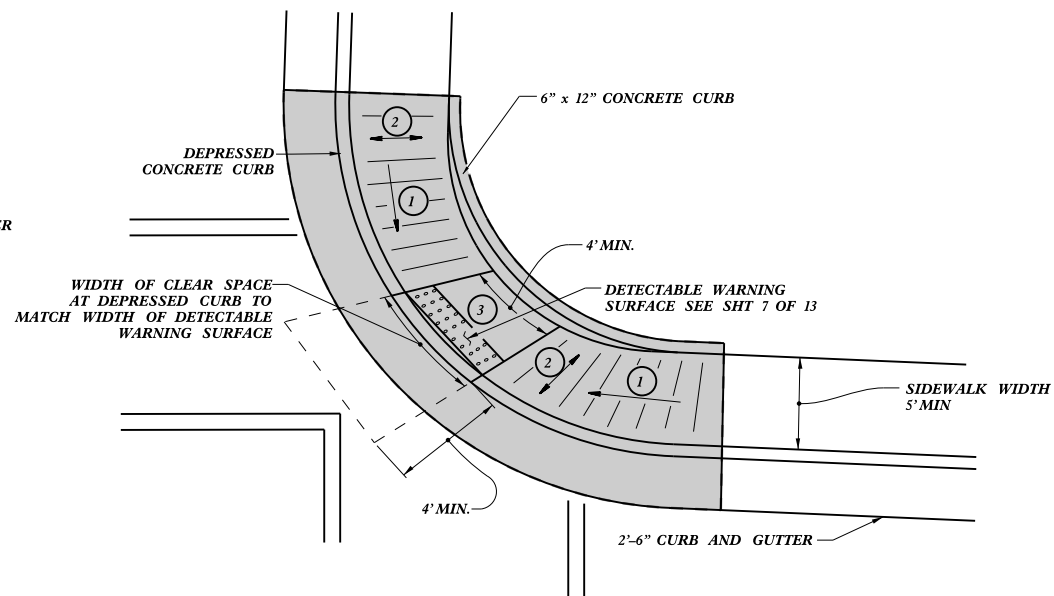
TYPE 2



TYPE 2A



TYPE 2A MODIFIED



TYPE 2B

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PAY LIMITS FOR 1 CURB RAMP

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

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PARALLEL RAMP

PROJECT REFERENCE NO.	SHEET NO.
BO-2404GA, BO-2404GB, & BO-2404GC	52

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

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PARALLEL RAMP

SHEET 9 OF 13
848D06

★ - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 3

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

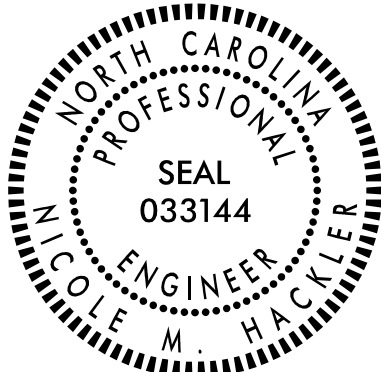
**TYPE 3 MODIFIED
INSTALLATION IN A RADIUS**

1 8.33% (12:1) MAX RAMP SLOPE
2 CROSS SLOPE: 2.00%
3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%.

DETECTABLE WARNING SURFACE

0.9" TO 1.4" MIN. 0.65" MIN. 1.6" TO 2.4"

PAY LIMITS FOR 1 CURB RAMP



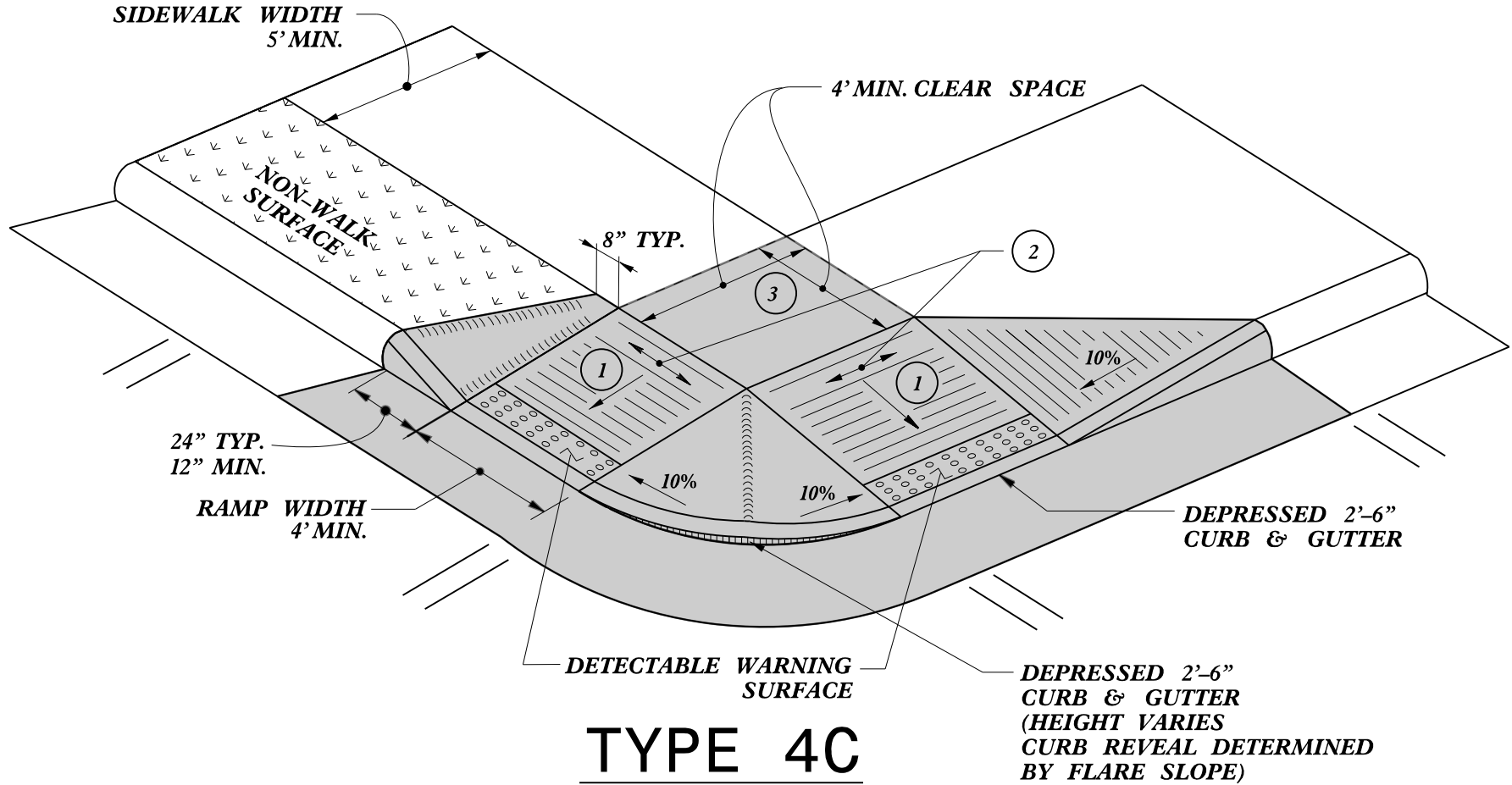
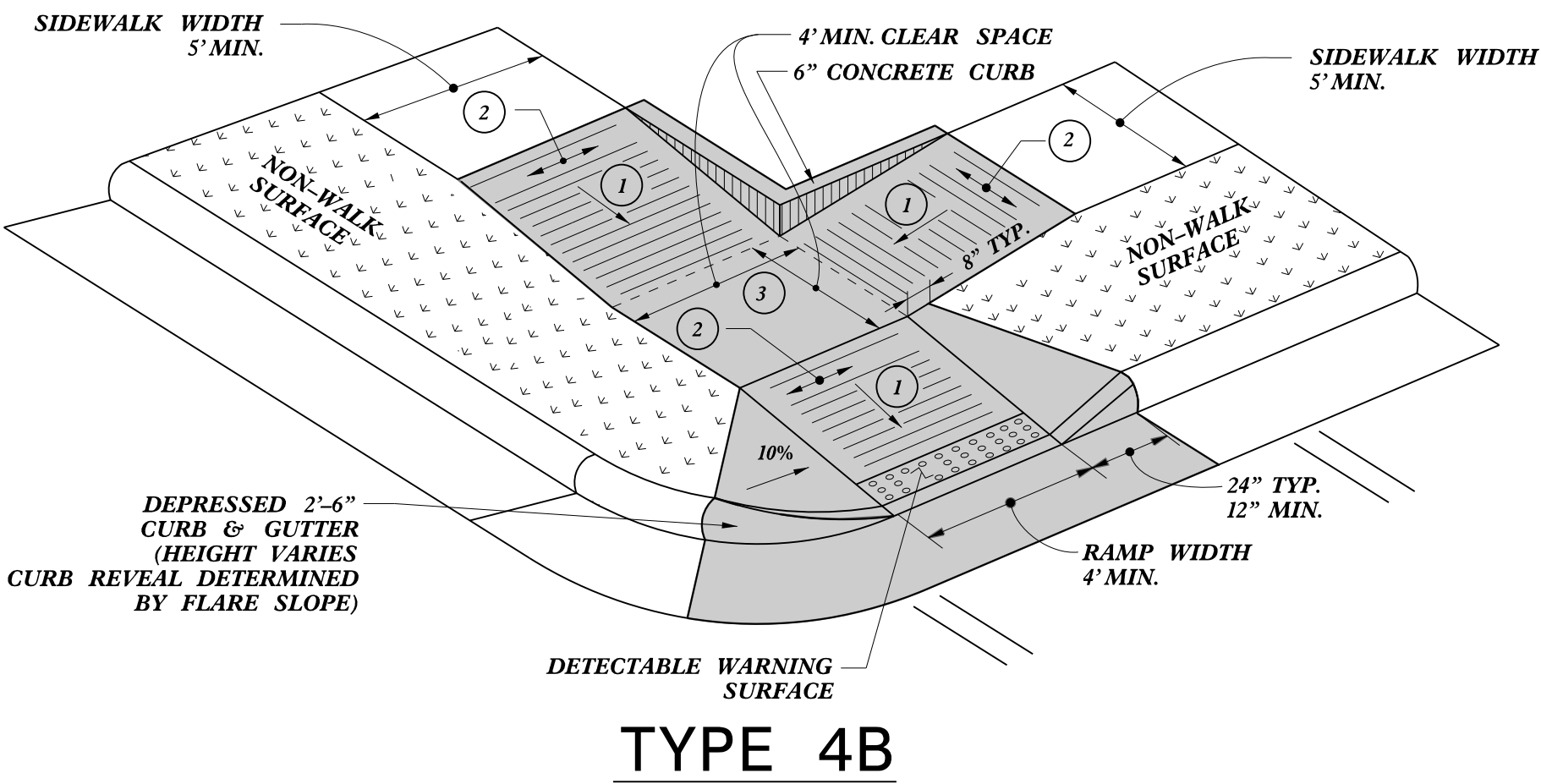
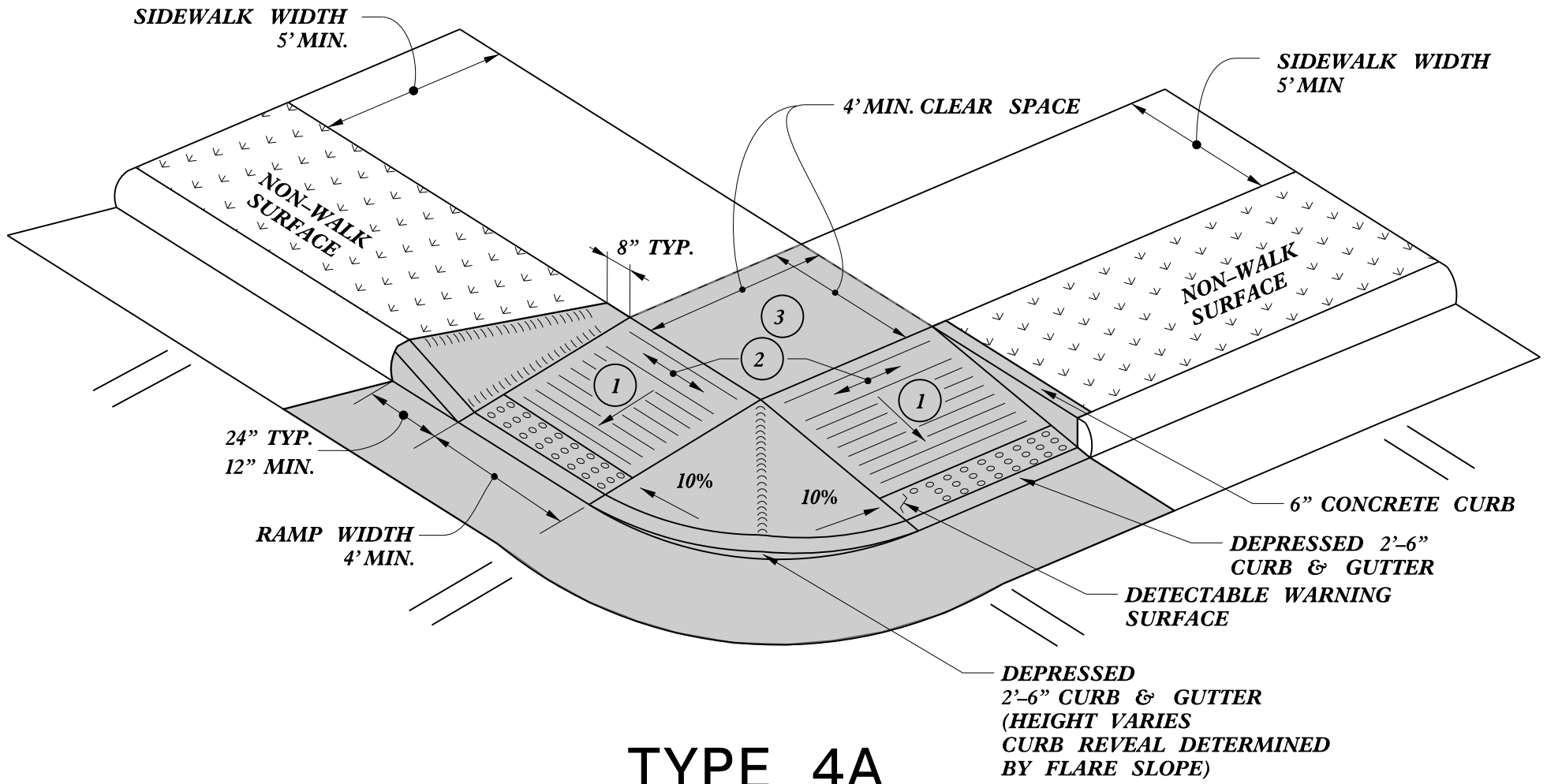
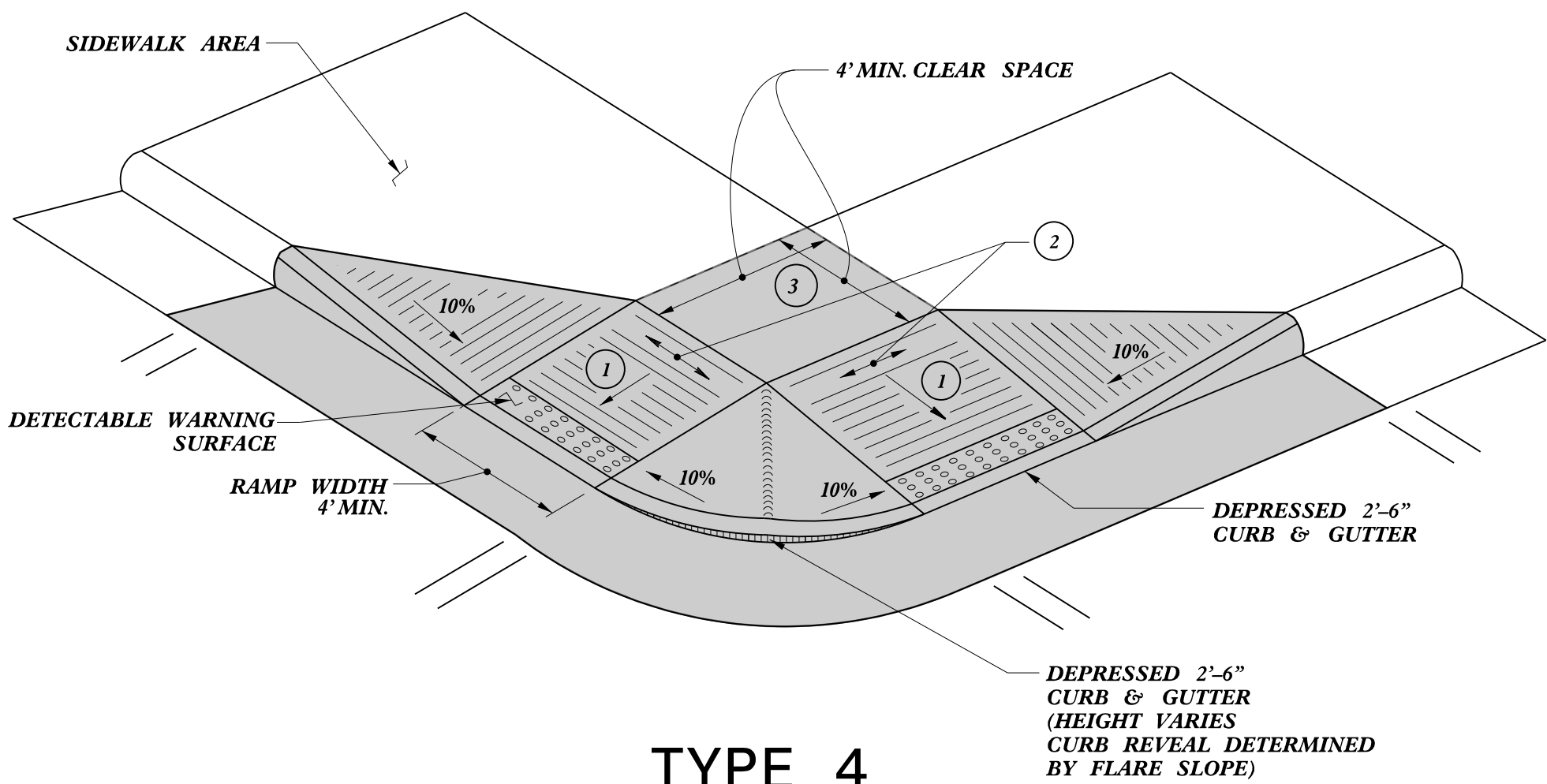
Signed by:
Nicole M. Hickler
5884320304164CS...
3/30/2026

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

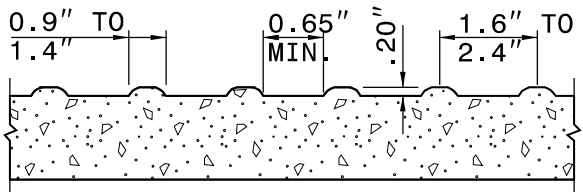
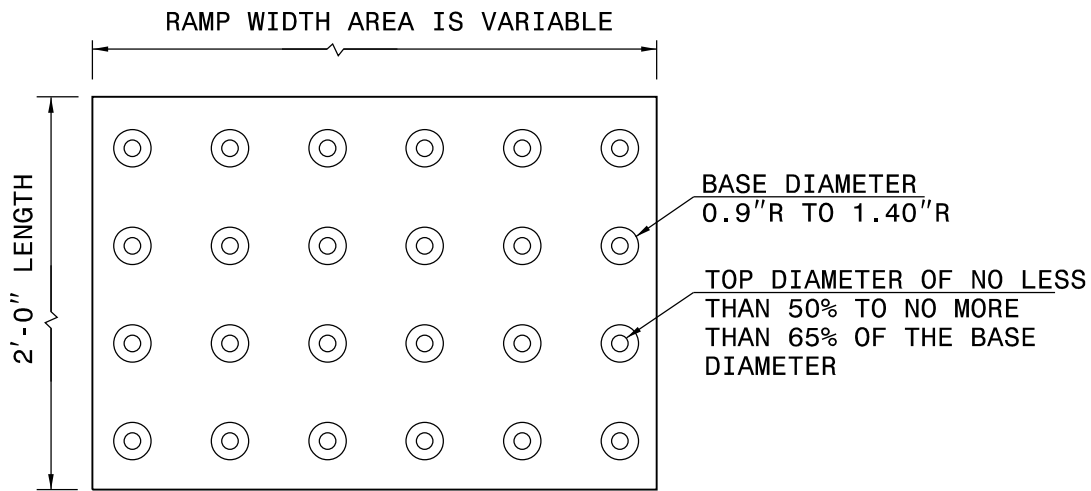
CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: special_details\nmhackler\DO609.dgn



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



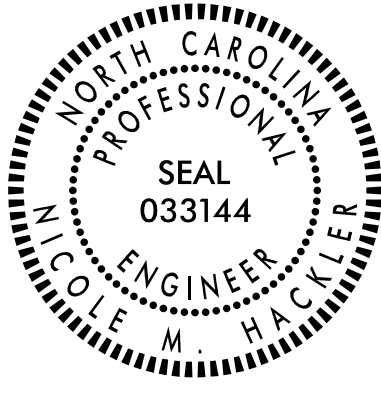
- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS OF DETECTABLE WARNING SURFACES)

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

ROADWAY STANDARD DRAWING FOR
CURB RAMP
SHARED LANDING

SHEET 10 OF 13
848D06



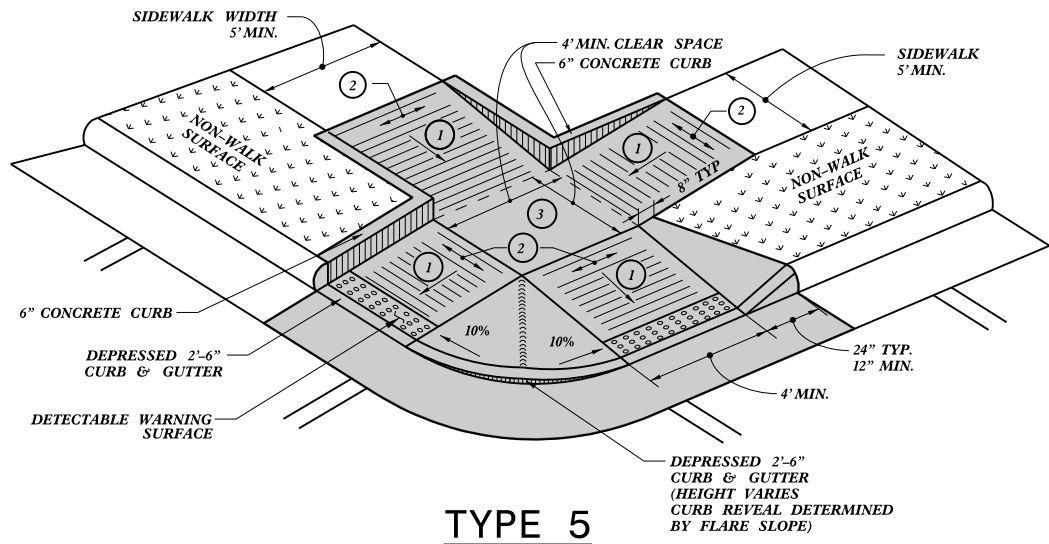
Signed by:
Nicole M. Hatcher
5884320324164CS
3/30/2026

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

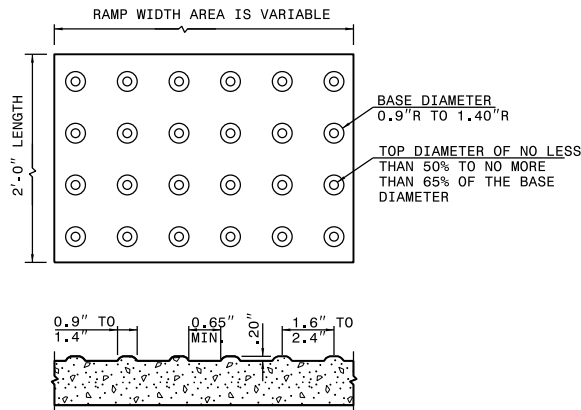
CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

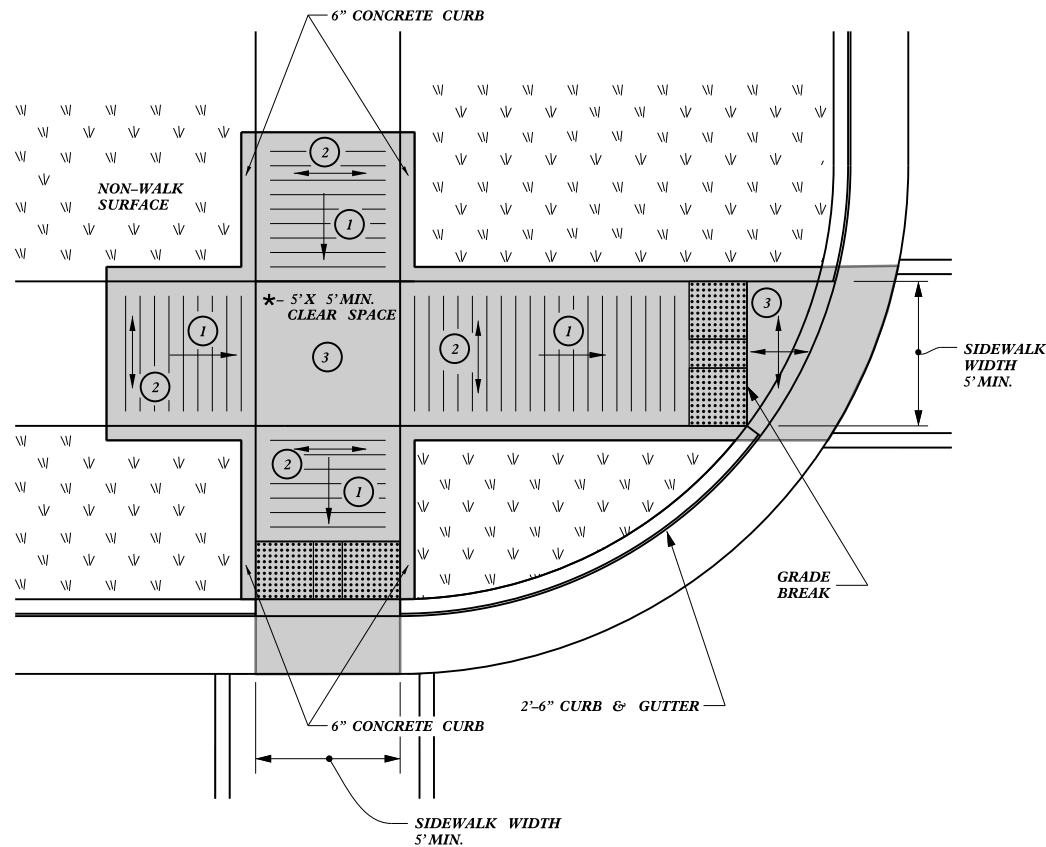
ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: special_details\nmhacker\848D0610.dgn



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



DETECTABLE WARNING SURFACE

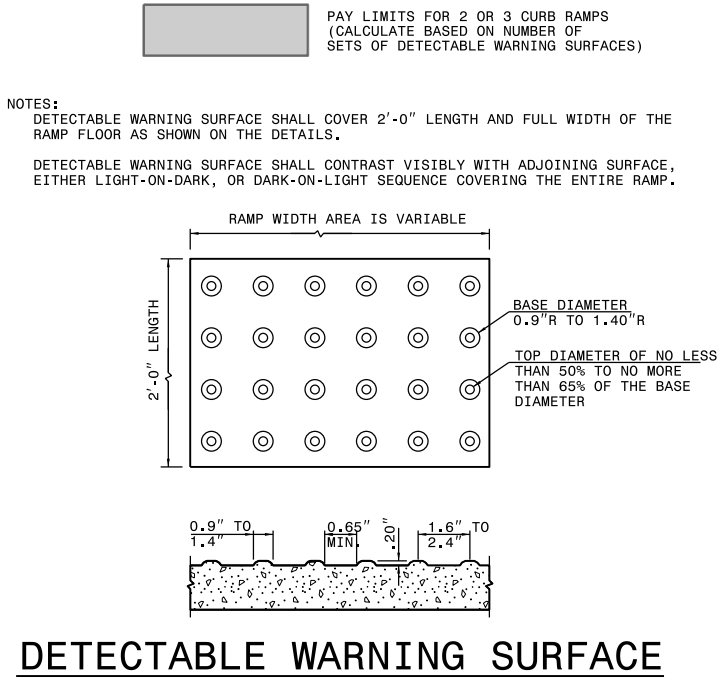
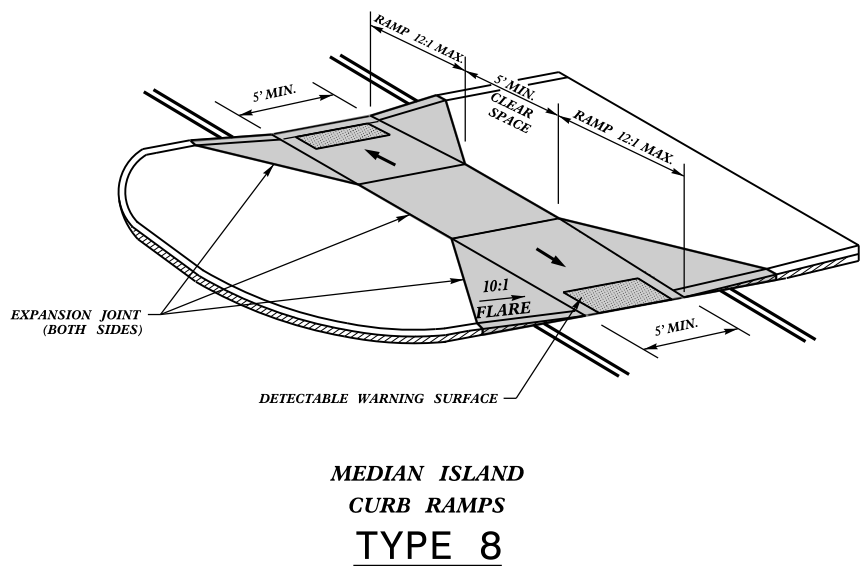
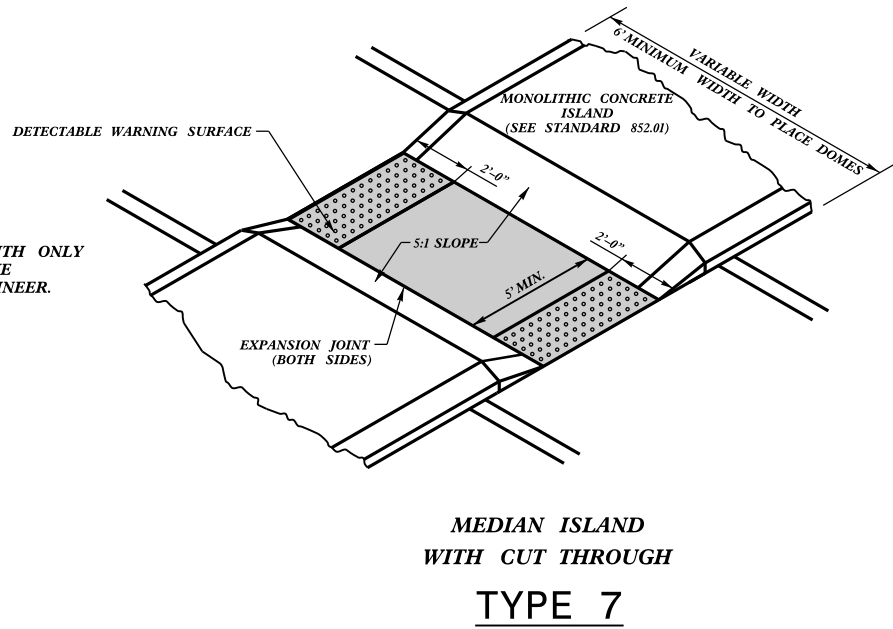
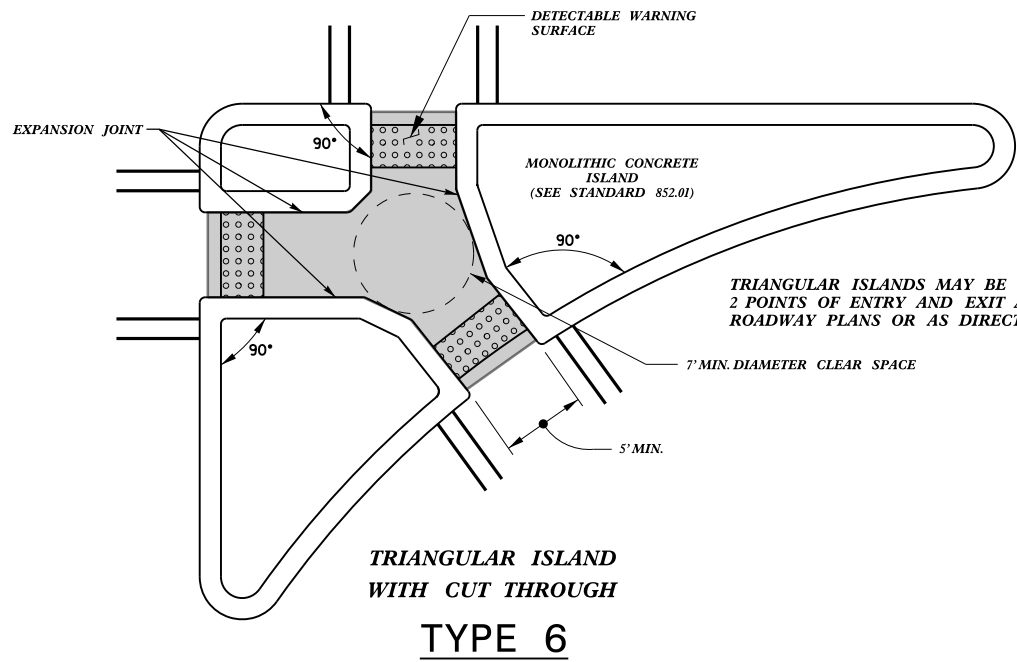


* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 5A

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%.

PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF DETECTABLE WARNING SURFACES)



NOTES:

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
6. TERMINATE PARKING A MINIMUM OF 20' FROM THE BACK OF PEDESTRIAN CROSSWALK.
7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
12. CONSTRUCT CLEAR SPACES FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT CLEAR SPACES FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. IF CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGH THE ISLAND.
14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'x5' CLEAR SPACE AT THE TOP OF RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, WHERE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE, OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
16. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01.
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
18. DETECTABLE WARNING SURFACES WILL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
19. DETECTABLE WARNING SURFACES WILL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

1-24
STATE OF
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

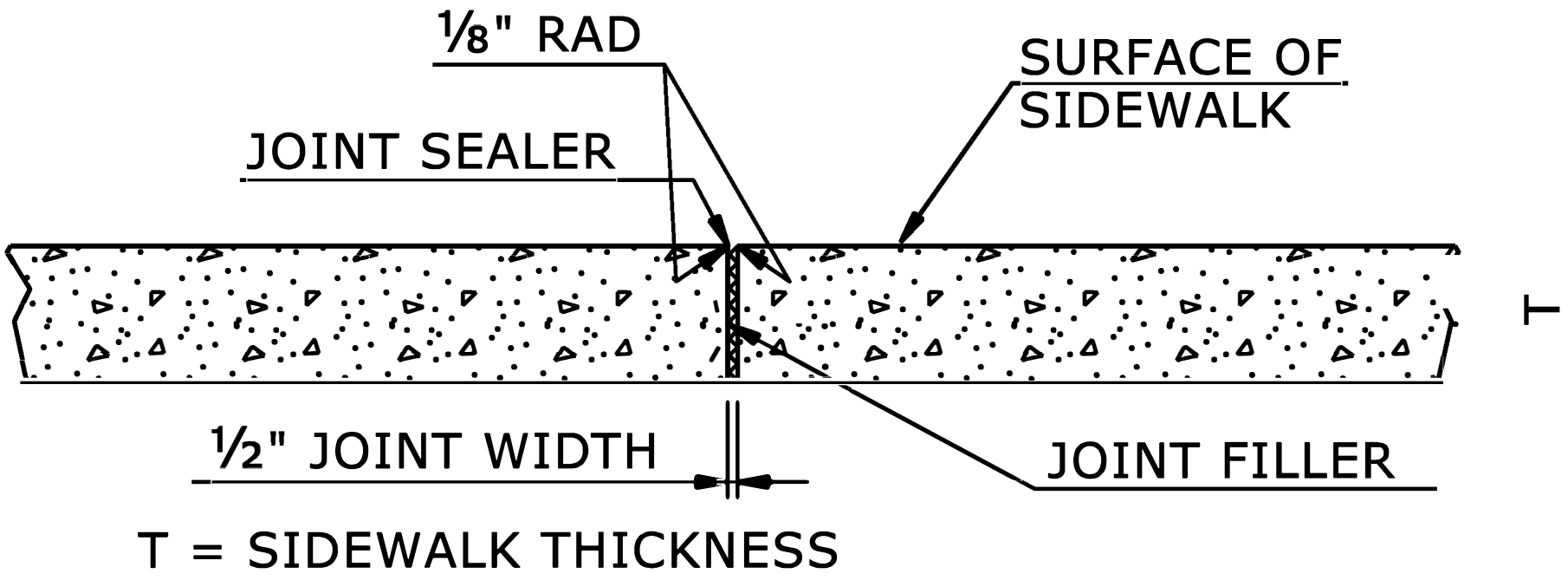
ROADWAY STANDARD DRAWING FOR
CURB RAMP
NOTES

NOTES:

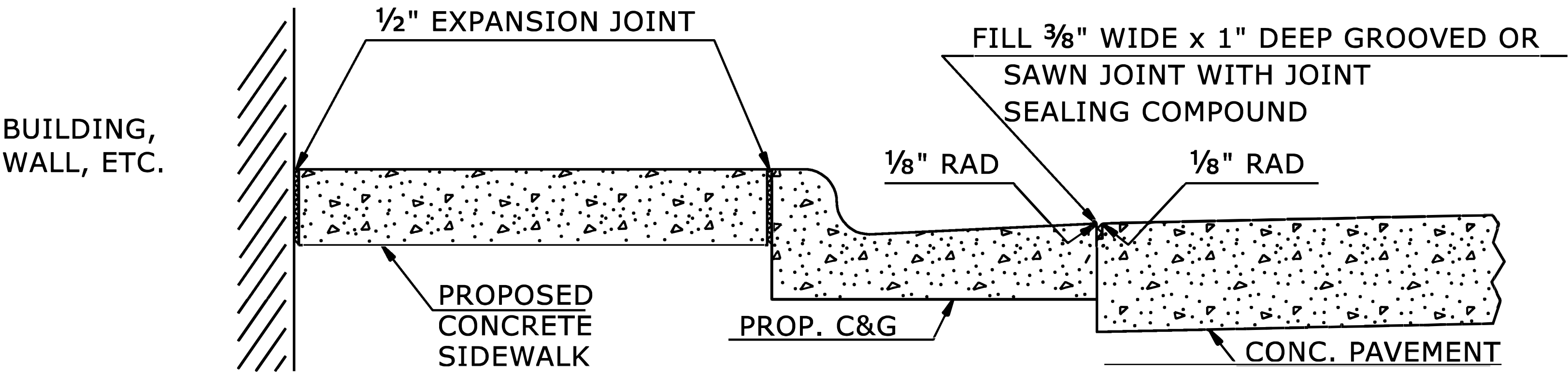
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

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

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



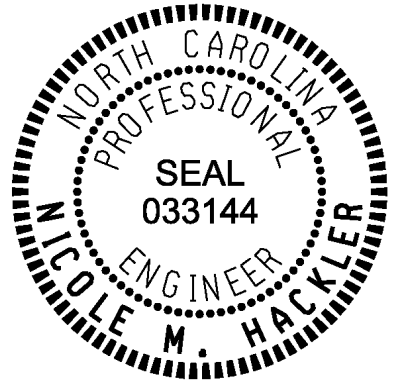
TRANSVERSE EXPANSION JOINT
IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

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ROADWAY DETAIL DRAWING FOR
CONCRETE SIDEWALK



Signed by:
Nicole M. Hacker
588432034164CS..
3/30/2026

SHEET 1 OF 1
848D01

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

Office 919-707-6950 FAX 919-250-4119

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