

- 5. SR 2325 - OLD BUNCH RD
- 6. SR 2326 - DOC PROCTOR RD
- 9. SR 2345 - E HORTON ST/CHAMBLEE RD
- 10. SR 2346 - TEMPLE JOHNSON RD
- 11. SR 2347 - PERRY CURTIS RD
- 12. SR 2350 - MOSS RD
- 13. SR 2351 - PULLEY GORDON RD
- 14. SR 2354 - LIONS CLUB RD
- 15. SR 2370 - WATER PLANT RD
- 16. SR 2407 - CURRIN PERRY RD

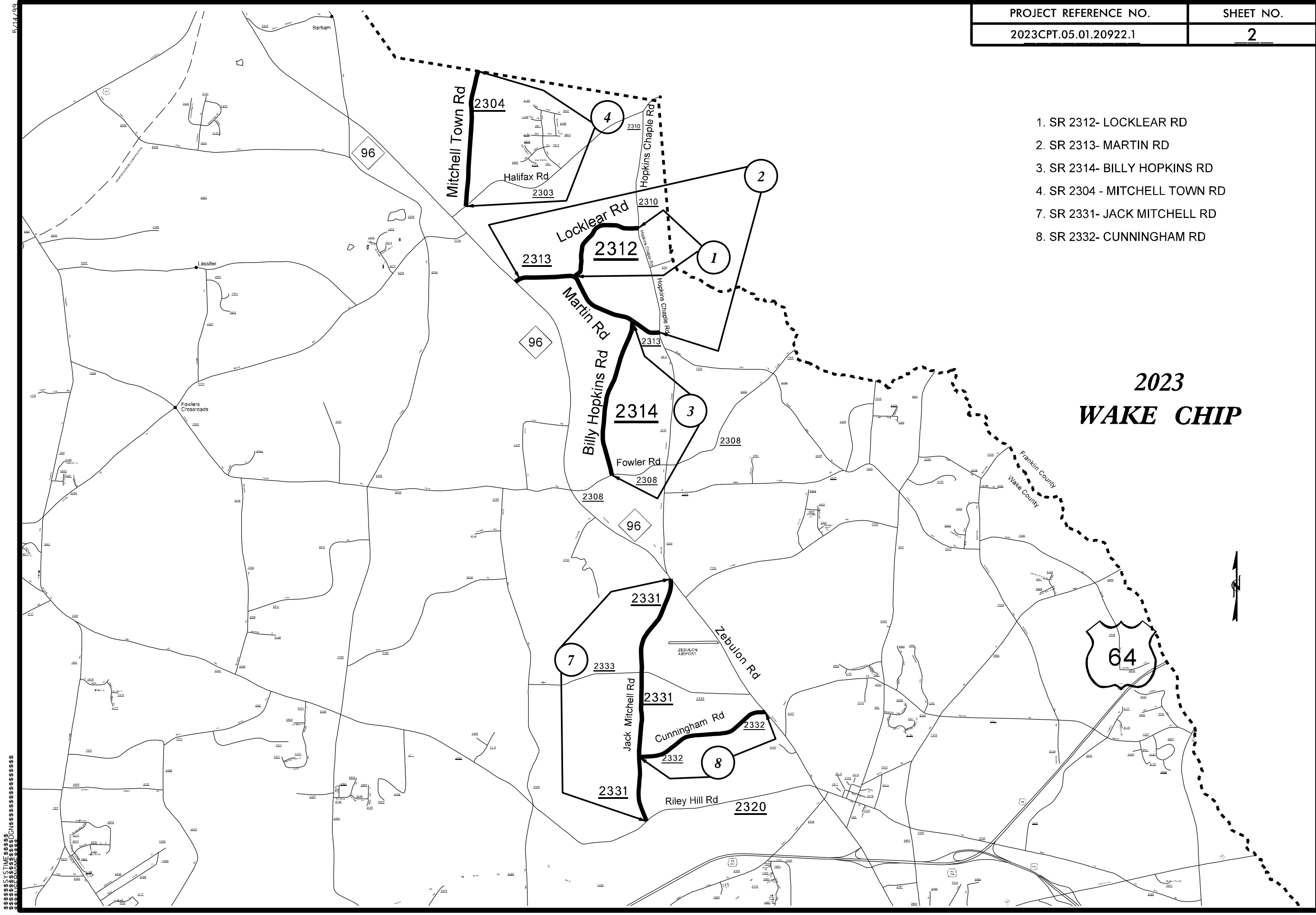
**2023
WAKE CHIP**



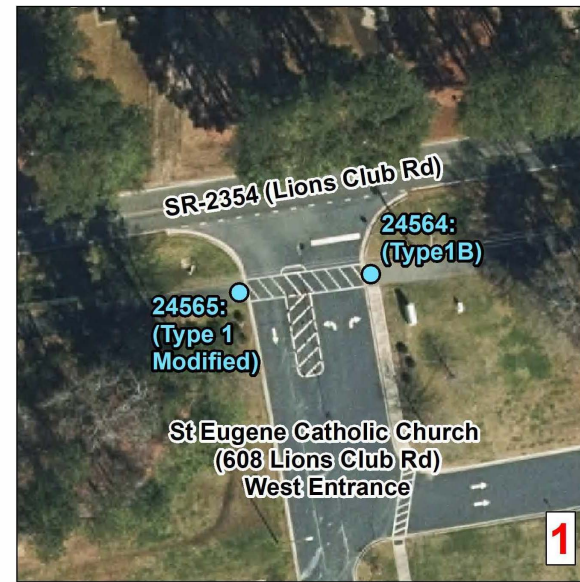
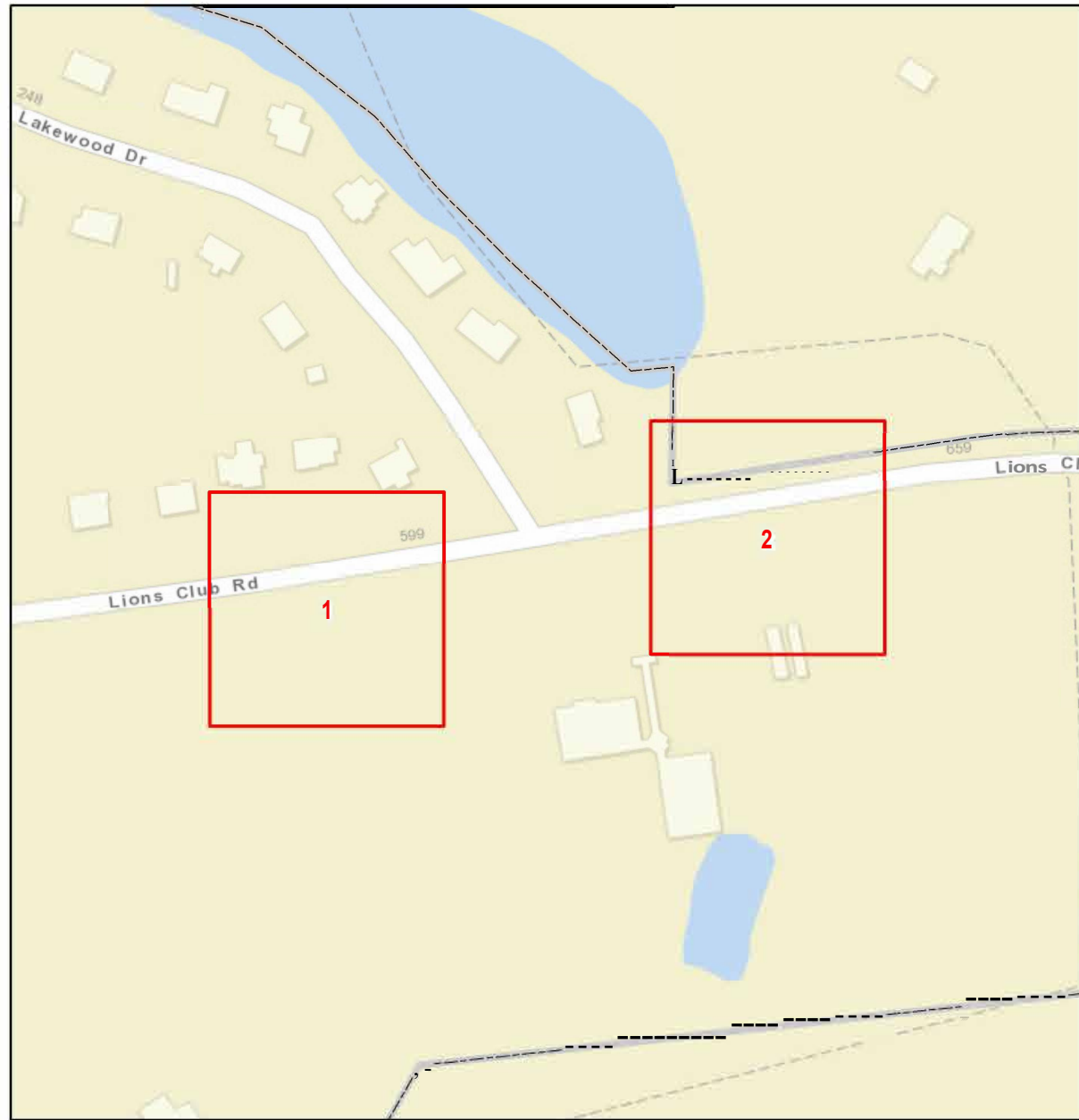
5/14/23
SYSTEMS ENGINEERS

- 1. SR 2312- LOCKLEAR RD
- 2. SR 2313- MARTIN RD
- 3. SR 2314- BILLY HOPKINS RD
- 4. SR 2304 - MITCHELL TOWN RD
- 7. SR 2331- JACK MITCHELL RD
- 8. SR 2332- CUNNINGHAM RD

2023 WAKE CHIP



UTM
NAD 83
Zone 18N
571499



Curb Ramps To Be Repaired		8
	Retrofit	
	Remove and Replace	
	New Curb Ramp	
	Remove Ramp	
	Municipal Boundary	
	NCHPO Historic Boundary (NR and LHD)	
2023 Wake Chip		
WBS: 2023CPT.05.01.20922.1		
Lions Club Rd		
From NC 231 To SR 2353		
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5	
<small>Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO</small>		

PAVEMENT SCHEDULE

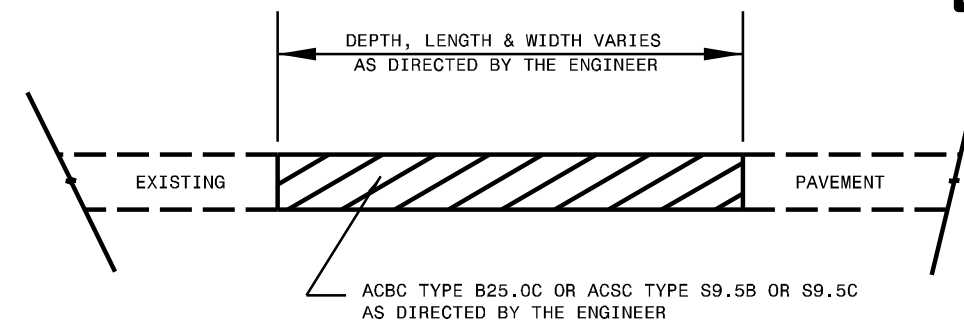
PROJECT REFERENCE NO.

2023CPT.05.01.20922.1

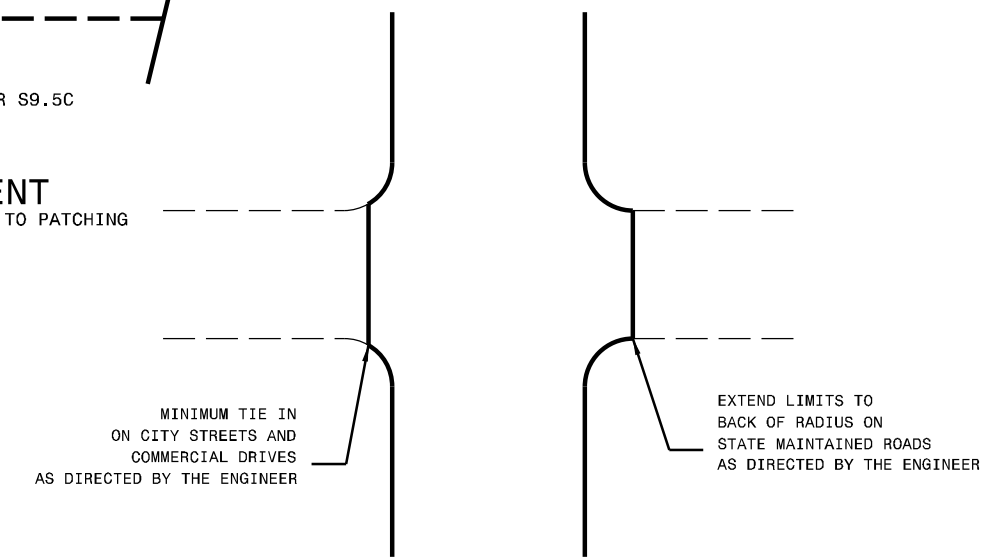
SHEET NO.

4

F1	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL
F2	PROP. FOG SEAL TO BE APPLIED WITHIN 5 DAYS OF DOUBLE SEAL ROADWAY SURFACE TO BE SWEEPED PRIOR TO FOG SEAL APPLICATION
U	EXISTING PAVEMENT

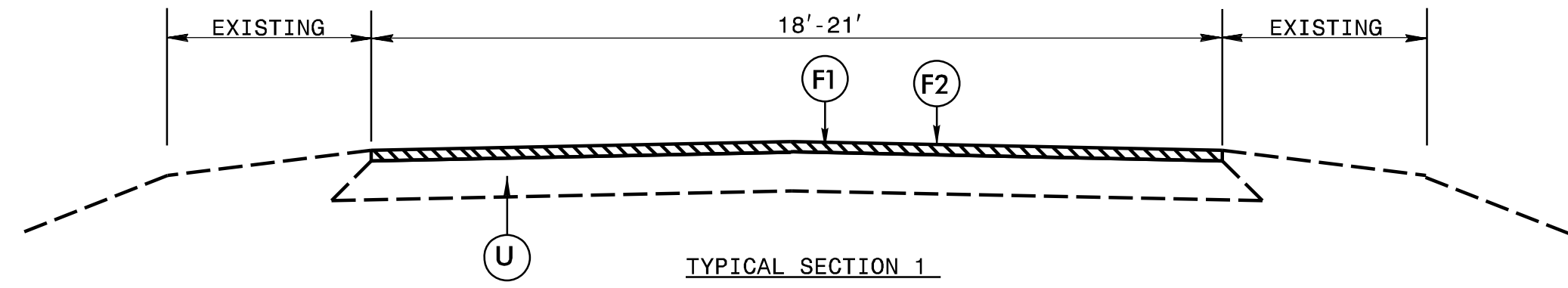


PATCHING EXISTING PAVEMENT
MILLING (IF REQUIRED BY TYPICAL) TO BE PERFORMED PRIOR TO PATCHING



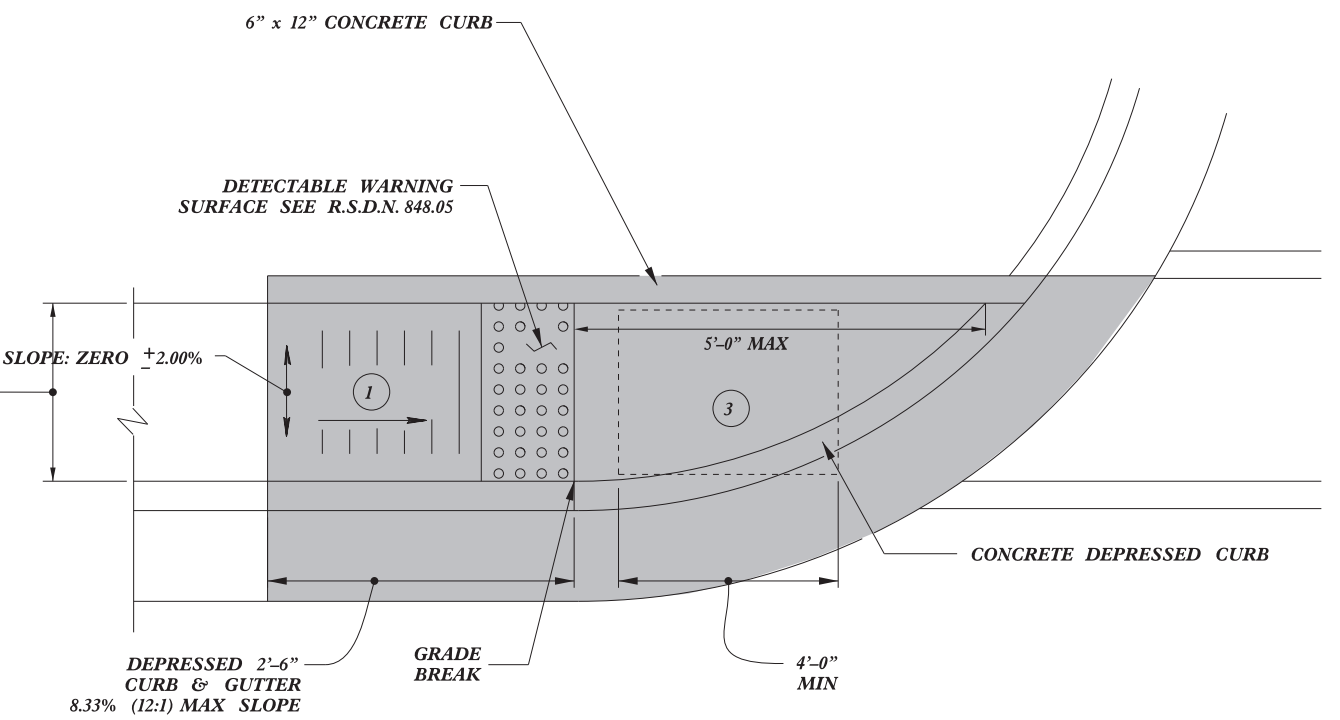
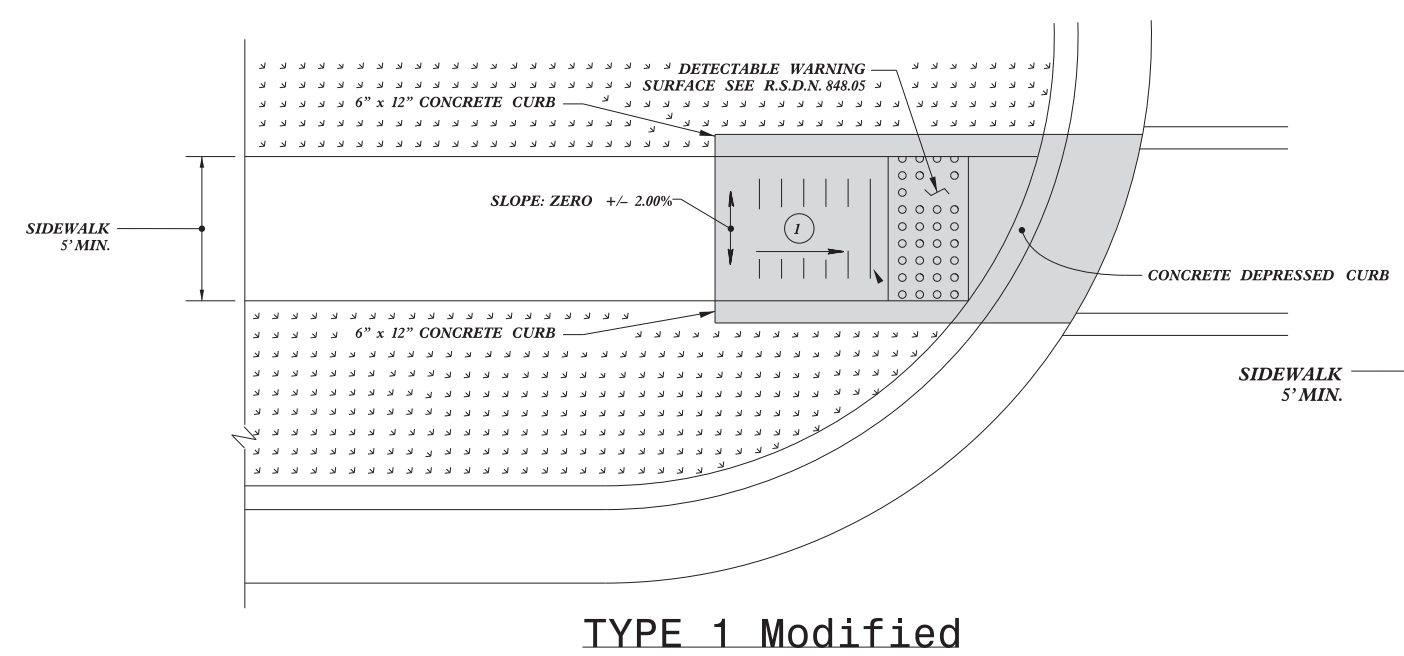
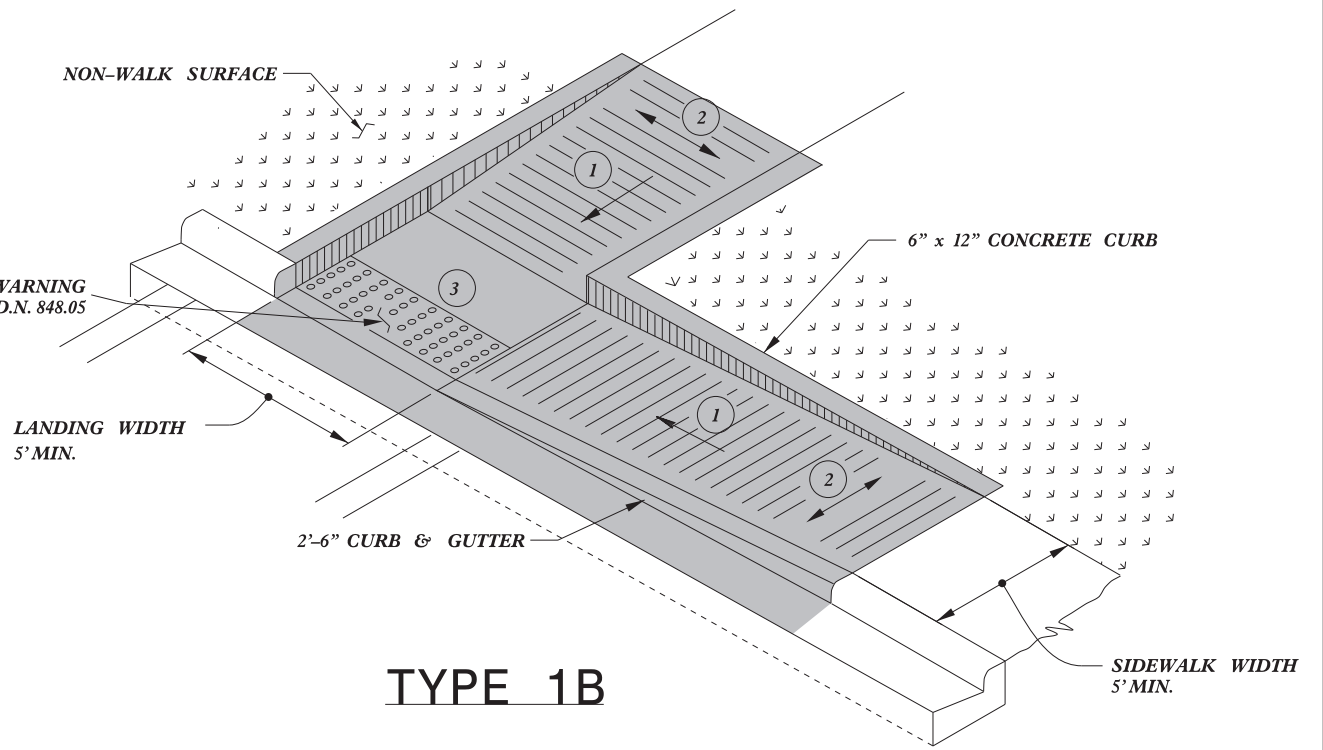
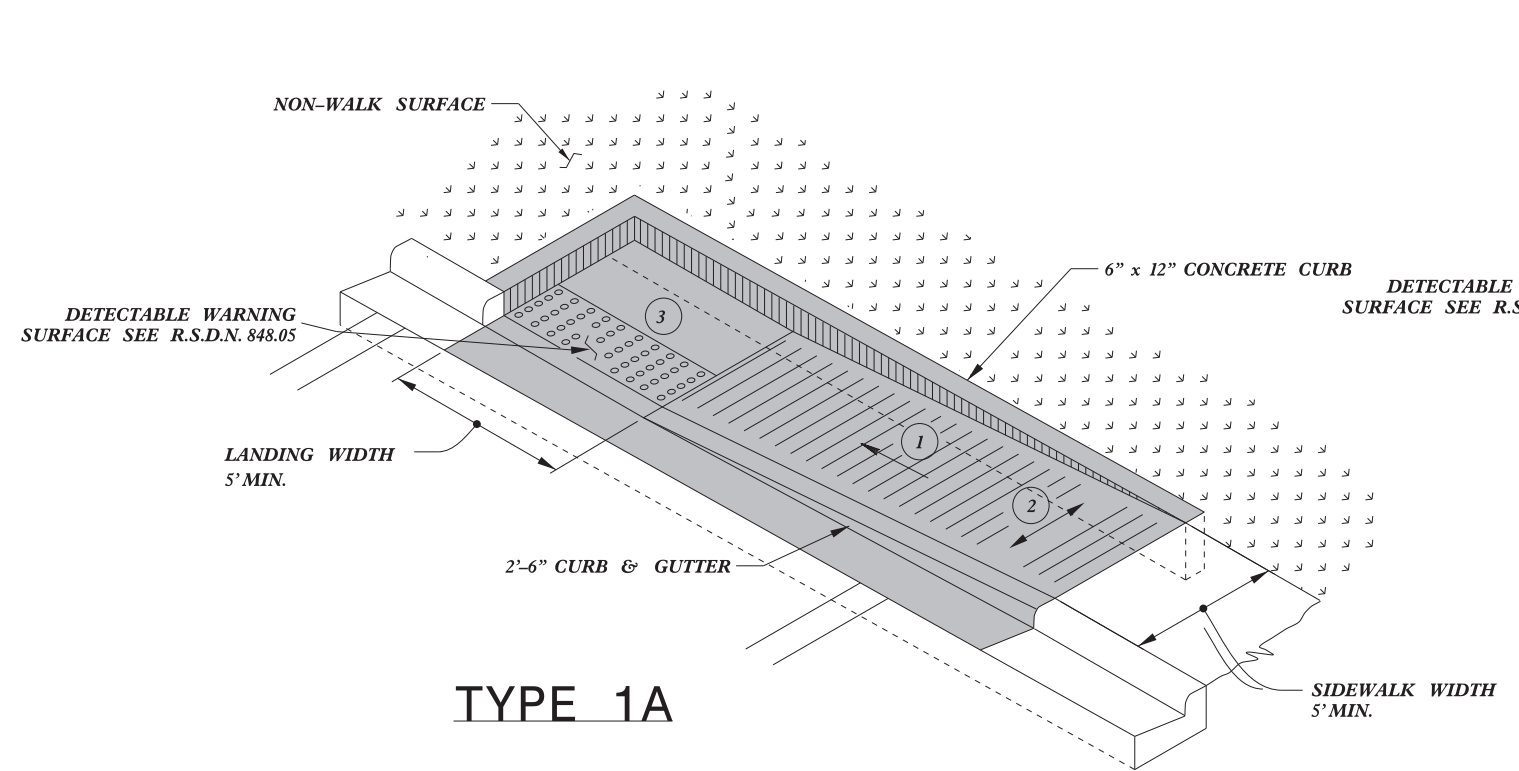
DETAIL OF PROJECT LIMITS AT Y LINES

SEAL TYPES AND MATERIAL APPLICATION RATES					
MAP #	TYPE OF SEAL	LAYER	AGGREGATE TYPE	AGGREGATE TARGET RATES (LBS/SY)	EMULSION TARGET RATES (GAL/SY)
ALL MAPS	DOUBLE	BOTTOM	78M	18	0.30
		TOP	9M	9	0.25
			EMULSION TYPE		
map #5-15	FOG SEAL	WITHIN 5 DAYS OF DOUBLE SEAL	CSS-1H		0.12



TYPICAL SECTION 1

5/14/99

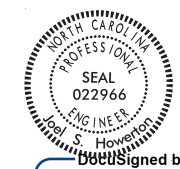


- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

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

1/8/2020



Designed by:
J.S. Howerton

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

CURB RAMPS
Directional Ramps

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

\$\$\$\$\$\$
 \$\$\$\$SYTIME\$\$\$\$
 \$\$\$\$CDN\$\$\$\$
 \$\$\$\$SERNAME\$\$\$\$
 \$\$\$\$

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.01.20922.1	6	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1575000000-E	1704000000-E	1803500000-E	1820000000-E	1838000000-E	2591000000-E	2613000000-N	2738000000-E	4600000000-N	4600000000-N		
											ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT, FOG SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	4" CONCRETE SIDEWALK	REMOVE AND REPLACE CURB RAMPS	GENERIC PAVING ITEM REMOVE SIDEWALK	GENERIC TRAFFIC CONTROL ITEM PEDESTRIAN TRANSPORT SERVICE	GENERIC TRAFFIC CONTROL ITEM AUDIBLE WARNING DEVICES		
											MI	FT	TON	TONS	SY	SY	GAL	SY	EA	SY	EA	EA
2023CPT.05.01.20922.1	Wake	1	SR 2312- LOCKLEAR RD	SR 2313 - MARTIN RD TO SR 2310 - HOPKINS CHAPEL	1	2	NO	NO	0.88	20	0	5	10,339	10,339	5,686							
2023CPT.05.01.20922.1	Wake	2	SR 2313- MARTIN RD	SR 2310 - HOPKINS CHAPEL TO NC 96	1	2	NO	NO	1.48	20	3	60	17,365	17,365	9,538							
2023CPT.05.01.20922.1	Wake	3	SR 2314- BILLY HOPKINS RD	SR 2308 - FOWLER RD TO SR 2313 - MARTIN RD	1	2	NO	NO	1.4	20	0	5	16,444	16,444	9,048							
2023CPT.05.01.20922.1	Wake	4	SR 2304- MITCHELL TOWN RD	SR 2303 - HALIFAX RD TO FRANKLIN CO	1	2	NO	NO	1.19	21	0	10	14,690	14,690	8,080							
2023CPT.05.01.20922.1	Wake	5	SR 2325- OLD BUNCH RD	SR 2326- DOC PROCTER RD TO DEAD END	1	2	NO	NO	1.56	20	2	40	18,338	18,338	10,086							
2023CPT.05.01.20922.1	Wake	6	SR 2326- DOC PROCTER RD	SR 2300 - PULLEY TOWN RD TO SR 2325 - OLD BUNCH RD	1	2	NO	NO	0.74	21	10	212	9,117	9,117	4,980							
2023CPT.05.01.20922.1	Wake	7	SR 2331- JACK MITCHELL RD	NC 96 TO SR 2320 - OLD BUNN RD	1	2	NO	NO	2.21	20	6	115	25,997	25,997	14,298							
2023CPT.05.01.20922.1	Wake	8	SR 2332- CUNNINGHAM RD	NC 96 TO SR 2331 - JACK MITCHELL RD	1	2	NO	NO	1.22	20	2	45	14,315	14,315	7,847							
2023CPT.05.01.20922.1	Wake	9	SR 2345- E HORTON ST/CHAMBLEE RD	RXR JOINTTO SR 2347 - PERRY CURTIS RD	1	2	NO	NO	2.06	19	1	15	22,995	22,995	12,647							
2023CPT.05.01.20922.1	Wake	10	SR 2346- TEMPLE JOHNSON RD	SR 2345 - HORTON ST EXT TO NC 96	1	2	NO	NO	1.08	20	2	45	12,687	12,687	6,995							
2023CPT.05.01.20922.1	Wake	11	SR 2347- PERRY CURTIS RD	JOHNSTON CO TO NC 96	1	2	NO	NO	1.69	19	0	5	18,838	18,838	10,355							
2023CPT.05.01.20922.1	Wake	12	SR 2350- MOSS RD	SR 2349 MORPHUS BRIDGE RD - 2348 W BARBEE ST	1	2	NO	NO	1.86	18	0	5	19,642	19,642	10,780							
2023CPT.05.01.20922.1	Wake	13	SR 2351- PULLEY GORDON RD	SR 2349 - WAKEFIELD ST TO JOHNSTON CO	1	2	NO	NO	1.37	18	0	5	14,467	14,467	7,945							
2023CPT.05.01.20922.1	Wake	14	SR 2354 - LIONS CLUB RD	SR 2323 - MORPHUS BRIDGE RD TO 231 - S. SELMA RD	1	2	NO	NO	1.35	20	0	5	15,840	15,840	8,712	18	3	18	40	6		
2023CPT.05.01.20922.1	Wake	15	SR 2370- WATER PLANT RD	SR 2368 - GREEN PACE RD TO NC 97 - N GANNON AVE	1	2	NO	NO	1.18	20	1	15	13,845	13,845	7,596							
2023CPT.05.01.20922.1	Wake	16	SR 2407- CURRIN PERRY RD	NC 97 - N GANNON AVE TO DEAD END	1	2	NO	NO	0.56	18	1	15	5,931	5,931	3,262							
R PROJ NO. 2023CPT.05.01.20922.1											21.83		29	602	250,850	250,850	137,855	18	3	18	40	6
GRAND TOTAL											21.83		29	602	250,850	250,850	137,855	18	3	18	40	6

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.01.20922.1	7	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4413000000-E	4447000000-E	4457000000-N	4695000000-E	4720000000-E		4890000000-E			
									WORK ZONE ADVANCE/GEN ERAL WARNING SIGNING	PEDESTRIAN CHANNELIZING DE- VICES	TEMPORARY TRAFFIC CONTROL	8" X 90 M WHITE THERMO	THERMO MSG SCHOOL 90 M	THERMO MSG RXR 90 M	HOT SPRAY THERMOPLAST IC PAVEMENT MARKING LINE, 4" , 55 MIL	GENERIC MARKING, 24" X 90 M WHITE THERMO	GENERIC MARKING, 16" X 90 M WHITE THERMO	
									SF	LF	LS	LF	EA	EA	LF	LF	LF	
2023CPT.05.01.20922.1	Wake	1	SR 2312- LOCKLEAR RD	SR 2313 - MARTIN RD TO SR 2310 - HOPKINS CHAPEL	1	2	0.88	20	98		0.05					18,761		
2023CPT.05.01.20922.1	Wake	2	SR 2313- MARTIN RD	SR 2310 - HOPKINS CHAPEL TO NC 96	1	2	1.48	20	126		0.08					31,553		
2023CPT.05.01.20922.1	Wake	3	SR 2314- BILLY HOPKINS RD	SR 2308 - FOWLER RD TO SR 2313 - MARTIN RD	1	2	1.4	20	157		0.08					29,848		
2023CPT.05.01.20922.1	Wake	4	SR 2304- MITCHELL TOWN RD	SR 2303 - HALIFAX RD TO FRANKLIN CO	1	2	1.19	21	134		0.06					25,370		
2023CPT.05.01.20922.1	Wake	5	SR 2325- OLD BUNCH RD	SR 2326- DOC PROCTER RD TO DEAD END	1	2	1.56	20	175		0.07					33,260		
2023CPT.05.01.20922.1	Wake	6	SR 2326- DOC PROCTER RD	SR 2300 - PULLEY TOWN RD TO SR 2325 - OLD BUNCH RD	1	2	0.74	21	82		0.04					15,776		
2023CPT.05.01.20922.1	Wake	7	SR 2331- JACK MITCHELL RD	NC 96 TO SR 2320 - OLD BUNN RD	1	2	2.21	20	248		0.10					47,118		
2023CPT.05.01.20922.1	Wake	8	SR 2332- CUNNINGHAM RD	NC 96 TO SR 2331 - JACK MITCHELL RD	1	2	1.22	20	136		0.05		6			26,011	50	
2023CPT.05.01.20922.1	Wake	9	SR 2345- E HORTON ST/CHAMBLEE RD	RXR JOINTTO SR 2347 - PERRY CURTIS RD	1	2	2.06	19	231		0.09	40		6		43,920	58	200
2023CPT.05.01.20922.1	Wake	10	SR 2346- TEMPLE JOHNSON RD	SR 2345 - HORTON ST EXT TO NC 96	1	2	1.08	20	121		0.05					23,025		
2023CPT.05.01.20922.1	Wake	11	SR 2347- PERRY CURTIS RD	JOHNSTON CO TO NC 96	1	2	1.69	19	189		0.07					36,030		
2023CPT.05.01.20922.1	Wake	12	SR 2350- MOSS RD	SR 2349 MORPHUS BRIDGE RD - 2348 W BARBEE ST	1	2	1.86	18	189		0.08					39,656		
2023CPT.05.01.20922.1	Wake	13	SR 2351- PULLEY GORDON RD	SR 2349 - WAKEFIELD ST TO JOHNSTON CO	1	2	1.37	18	153		0.05					29,209		
2023CPT.05.01.20922.1	Wake	14	SR 2354 - LIONS CLUB RD	SR 2323 - MORPHUS BRIDGE RD TO 231 - S. SELMA RD	1	2	1.35	20	151	60	0.05					28,782		
2023CPT.05.01.20922.1	Wake	15	SR 2370- WATER PLANT RD	SR 2368 - GREEN PACE RD TO NC 97 - N GANNON AVE	1	2	1.18	20	132		0.05					25,157		
2023CPT.05.01.20922.1	Wake	16	SR 2407- CURRIN PERRY RD	NC 97 - N GANNON AVE TO DEAD END	1	2	0.56	18	63		0.03					11,940		
R PROJ NO. 2023CPT.05.01.20922.1							21.83		2,385	60	1.00	40	6	6	465,416	108	200	
													12		465,724			
GRAND TOTAL							21.83		2,385	60	1.00	40	6	6	465,416	108	200	
													12		465,724			

ADA SUMMARY OF QUANTITIES - TOTALS

Project Number:	2023 Wake Chip
WBS Number:	2023CPT.05.01.20922.1
County:	Wake

Project Number	County	Municipality	Resurfacing Route	4447000000-E	4600000000-N	4600000000-N	2591000000-E	2738000000-E	2613000000-N
				Pedestrian Channelizing Devices LF	Generic Traffic Control Item - Pedestrian Transport Service EA	Generic Traffic Control Item - Audible Warning Device EA	4" Concrete Sidewalk SY	Remove Sidewalk SY	Remove and Replace Curb Ramps EA
2023 Wake Chip	Wake	Wendell	Lions Club Rd From NC 231 To SR 2353	60	40	6	18	18	3
GRAND TOTAL				60	40	6	18	18	3

ADA SUMMARY OF QUANTITIES - LIONS CLUB RD FROM NC 231 TO SR 2353




Municipality:	Wendell
Project Number:	2023 Wake Chip
WBS Number:	2023CPT.05.01.20922.1
County:	Wake

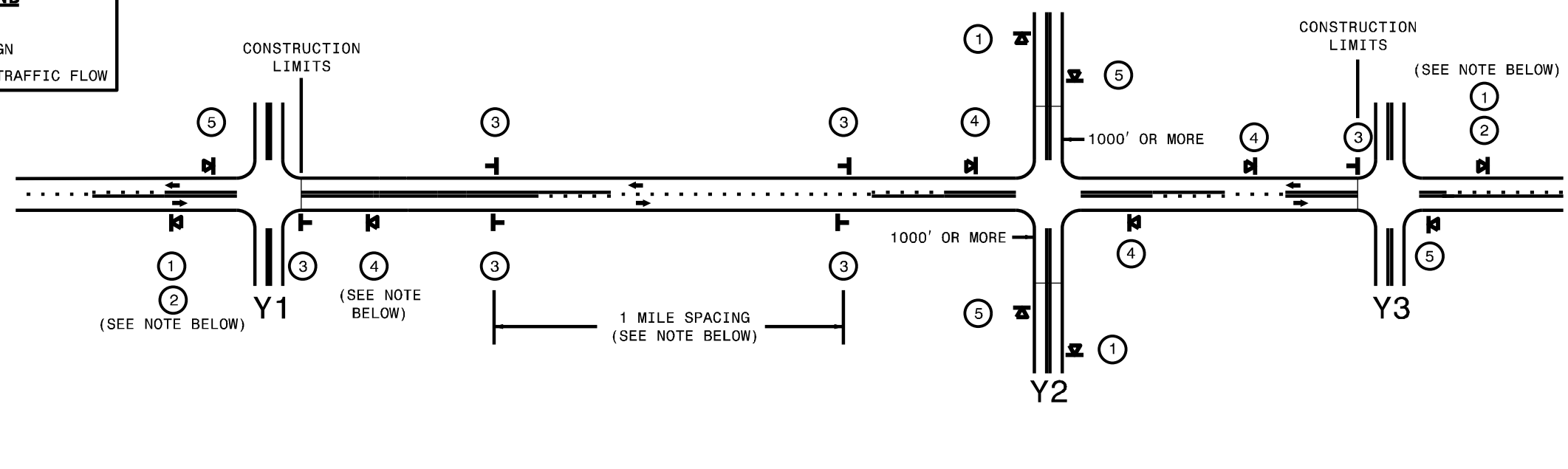
Ramp ID	Inset Map Number	Route 1	Route 2	2591000000-E	2738000000-E	2613000000-N	Improvement Type
				4" Concrete Sidewalk SY	Remove Sidewalk SY	Remove and Replace Curb Ramps EA	
24564	1	SR-2354 (Lions Club Rd)	St Eugene Catholic Church (608 Lions Club Rd) West Entrance	6	6	1	Type1B
24565	1	SR-2354 (Lions Club Rd)	St Eugene Catholic Church (608 Lions Club Rd) West Entrance	6	6	1	Type1Modified
24563	2	SR-2354 (Lions Club Rd)	St Eugene Catholic Church (608 Lions Club Rd) East Entrance	6	6	1	Type1Modified
Sub-Total for Lions Club Rd From NC 231 To SR 2353				18	18	3	

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

SIGNING FOR ASPHALT SURFACE TREATMENT








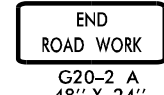
LEGEND

-  PORTABLE SIGN
-  STATIONARY SIGN
-  DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

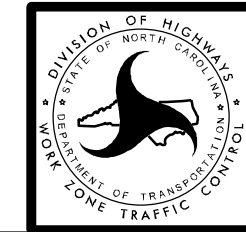
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①	 W20-1 48" X 48"	- PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>STATIONARY SIGNING NOT REQUIRED FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;">  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	②	 W7-3aP 24" X 18"	- SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.	
	③	 W8-7 48" X 48"  SP 48" X 48"	<p>- ALTERNATE THE FOLLOWING TWO SIGNS:</p> <p>- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</p> <p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</p>	
	④	 SP 13106 48" X 48"	<p>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</p> <p>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</p> <p>- FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH.</p> <p>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p>	
	⑤	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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

MAPS LESS THAN 2 MILES

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



ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

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