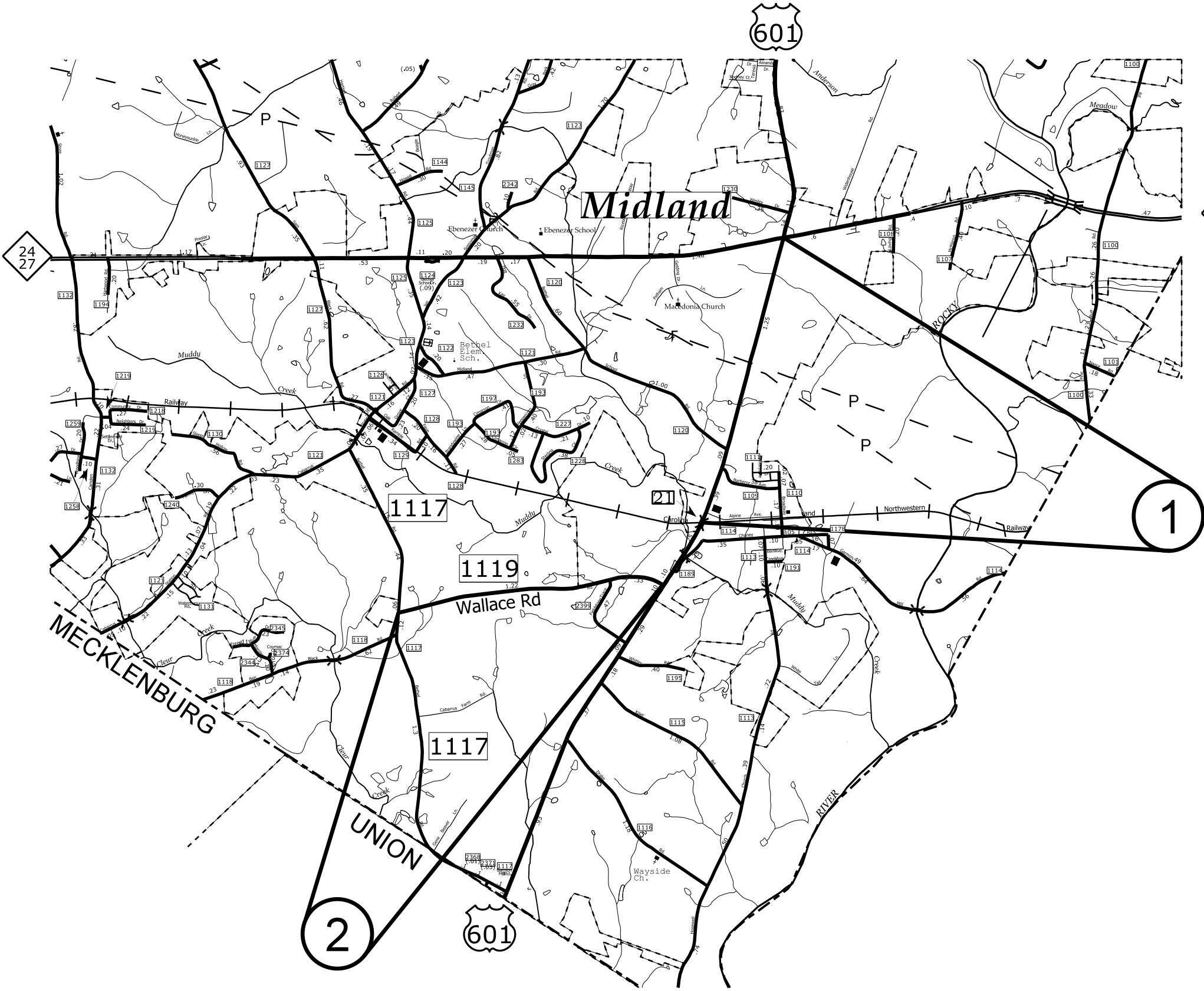


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.I0.02.I0I3I.I, ETC.	1	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
CABARRUS COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

**MAP #1 US HWY 601 1.68 MILES
 FROM NC HWY 24/27 (MP 4.09) TO THE
 RAILROAD BRIDGE (MP 2.41)**

**MAP #2 SR-1119 (WALLACE RD) 1.53 MILES
 FROM PAVEMENT JOINT AT US HWY 601
 (MP 0.0) TO PAVEMENT JOINT AT SR-1117
 (BETHEL RD EXT) (MP 1.53)**

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.10.02.10131.I, ETC.	2	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

CABARRUS COUNTY

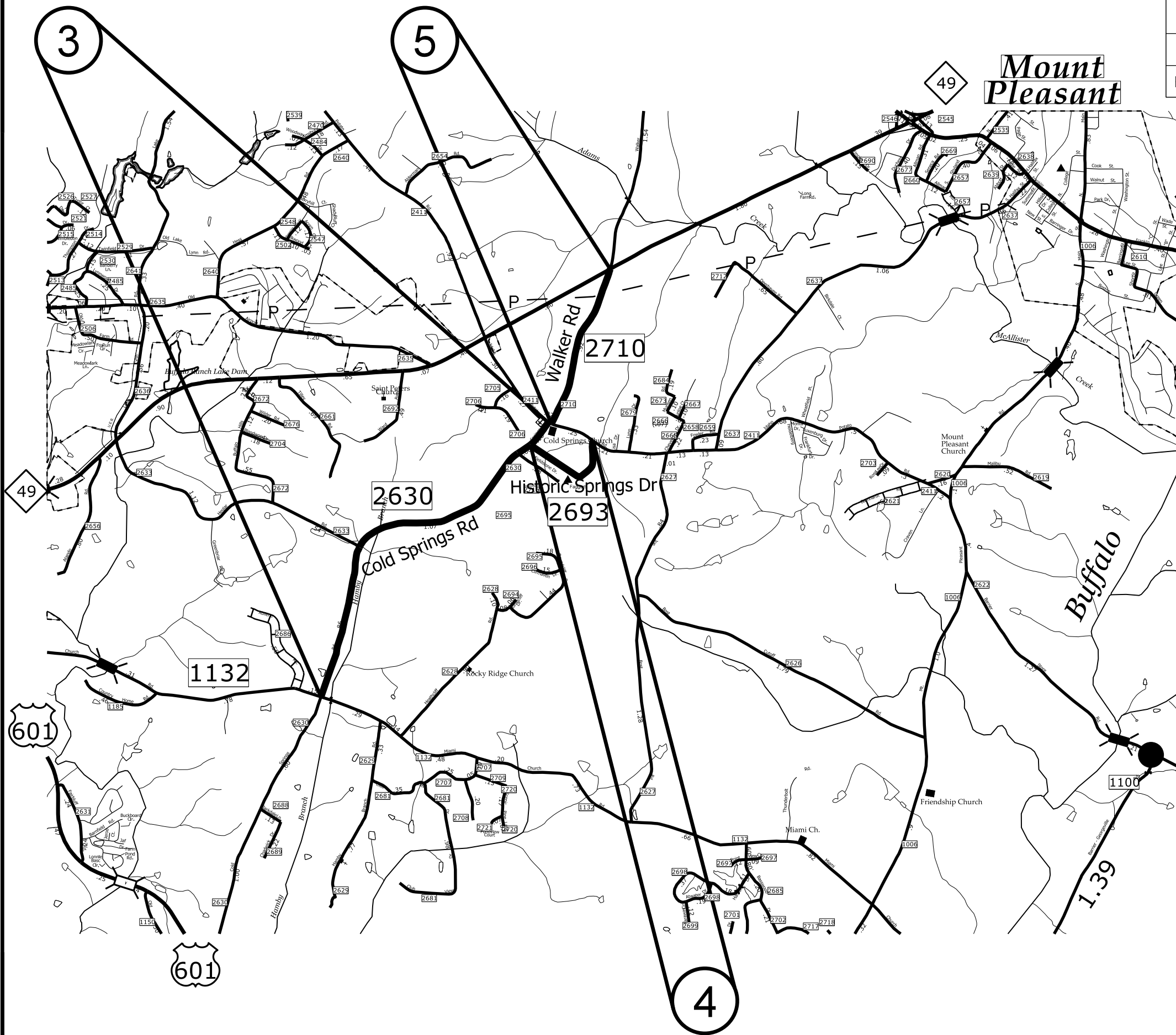
NORTH CAROLINA

PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

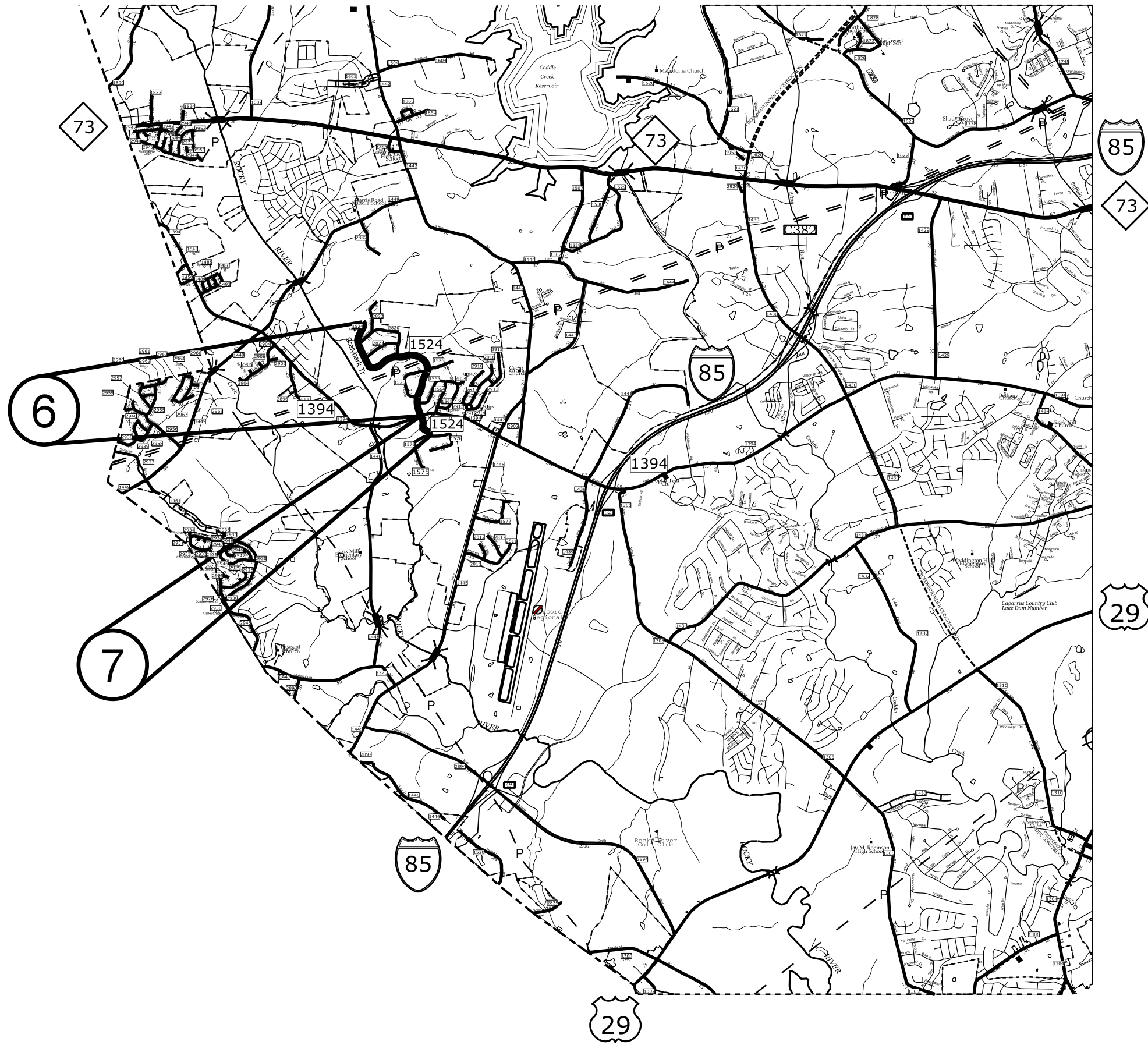
MAP #3 SR-2630 (COLD SPRINGS RD) 2.18 MILES
FROM PAVEMENT JOINT AT SR-2411
(COLD SPRINGS RD) (MP 0.0) TO PAVEMENT JOINT
AT SR-1132 (MIAMI CH RD) (MP 2.18)

MAP #4 SR-2693 (HISTORIC SPRINGS DR) 0.55 MILES
FROM PAVEMENT JOINT AT SR-2630
(COLD SPRINGS RD) (MP 0.0) TO THE PAVEMENT
JOINT AT SR-2411 (COLD SPRINGS RD) (MP 0.55)

MAP #5 SR-2710 (WALKER RD) 0.79 MILES
FROM PAVEMENT JOINT AT NC HWY 49
(MP 1.7) TO PAVEMENT JOINT AT SR-2411
(COLD SPRINGS RD) (MP 2.49)



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.10.02.10131.I, ETC.	3	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

CABARRUS COUNTY

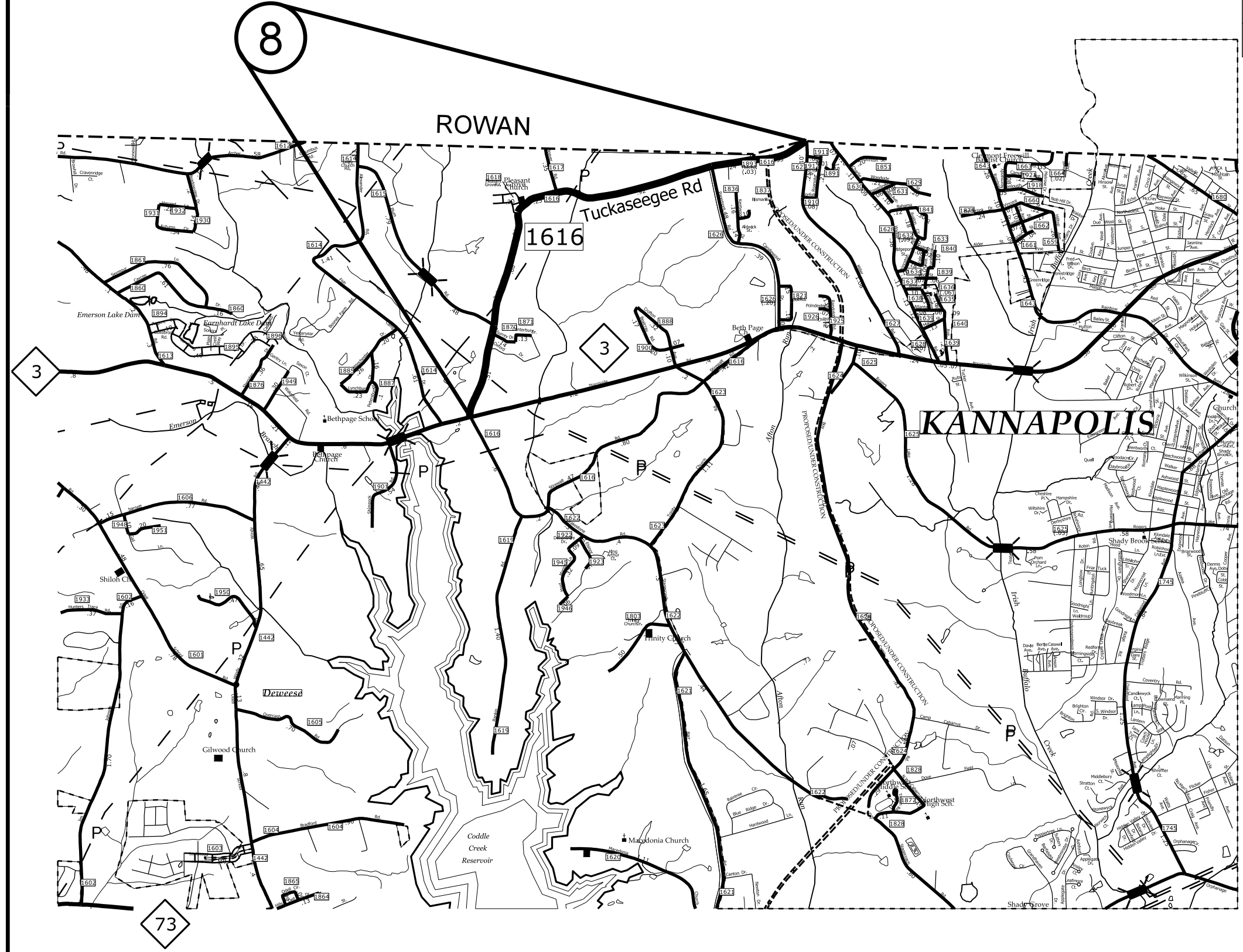
NORTH CAROLINA


PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

**MAP #6 SR-1524 (SCALEYBARK TR) 1.31 MILES
FROM PAVEMENT JOINT AT SR-1394
(POPLAR TENT RD) (MP 0.18) TO CUL DE SAC
(MP 1.49)**

**MAP #7 SR-1524 (SCALEYBARK TR) 0.16 MILES
FROM PAVEMENT JOINT AT SR-1394
(POPLAR TENT RD) (MP 0.16) TO SR-1575
(HIGH RIDGE LN) (MP 0.0)**

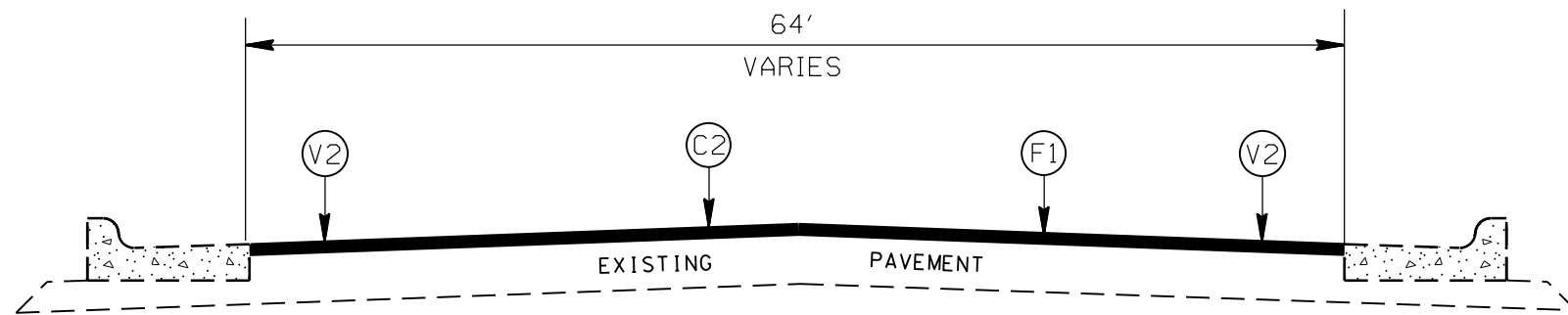
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.10.02.10131.I, ETC.	4	
F.A. PROJECT NO.			



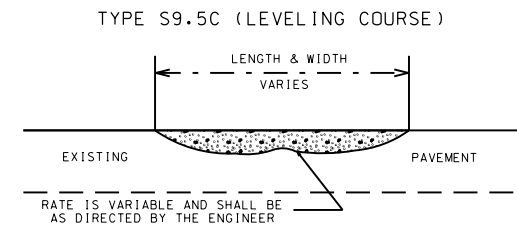

 ENLARGED MUNICIPAL AND SUBURBAN AREAS
CABARRUS COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

MAP #8 SR-1616 (TUCKASEEGEE RD) 2.94 MILES
FROM PAVEMENT JOINT AT NC HWY 3
(MP 2.95) TO PAVEMENT JOINT AT
ROWAN LINE (MP 0.01)

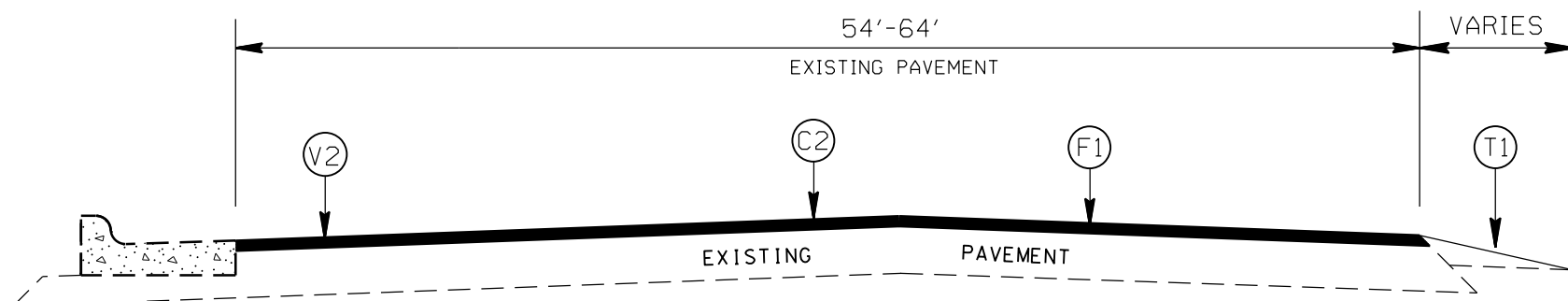
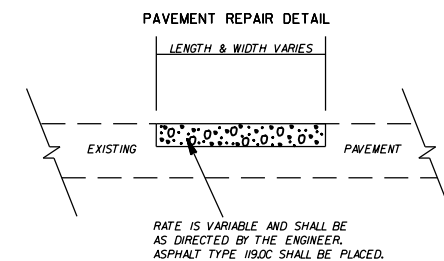
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.10.02.10131.1 ETC.	5	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 3
US 601



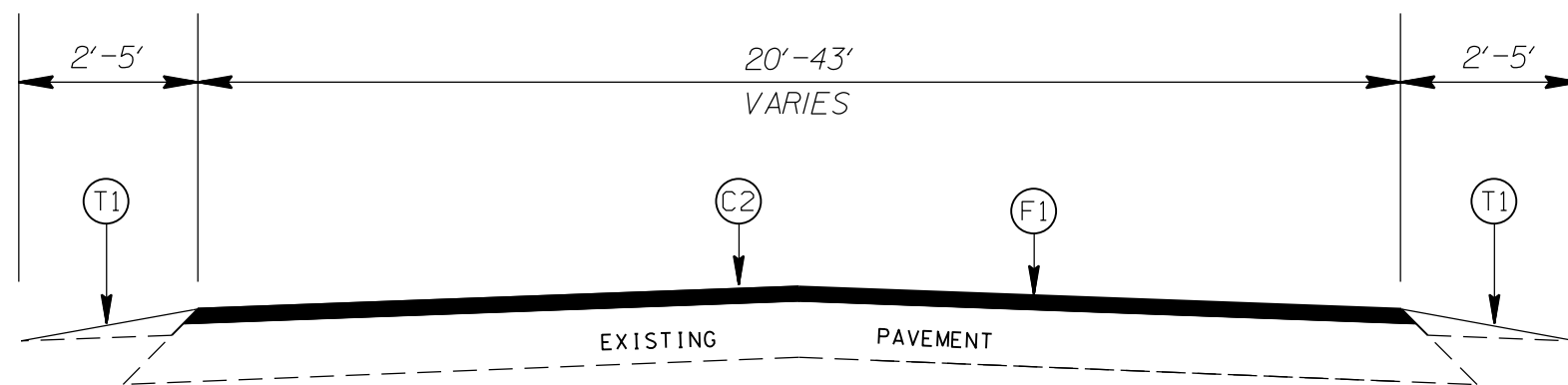
DETAIL FOR PROFILE MILLING (0' TO 2')



TYPICAL SECTION NO. 2
US 601

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE
T1	SHOULDER RECONSTRUCTION
V1	MILLING OF EXISTING PAVEMENT, 2"
V2	PROFILE MILLING OF EXISTING ASPHALT, 0'-2" (10' WIDTH)

- NOTES: 1. LEVELING COURSE TO BE PLACED AS DIRECTED BY THE ENGINEER
 2. ON MAP #1, MAP ENDS AT BEGINNING OF CONCRETE RXR BRIDGE
 3. ON MAP #1, #3, & #5, PLACE AST IMMEDIATELY BEFORE RESURFACING

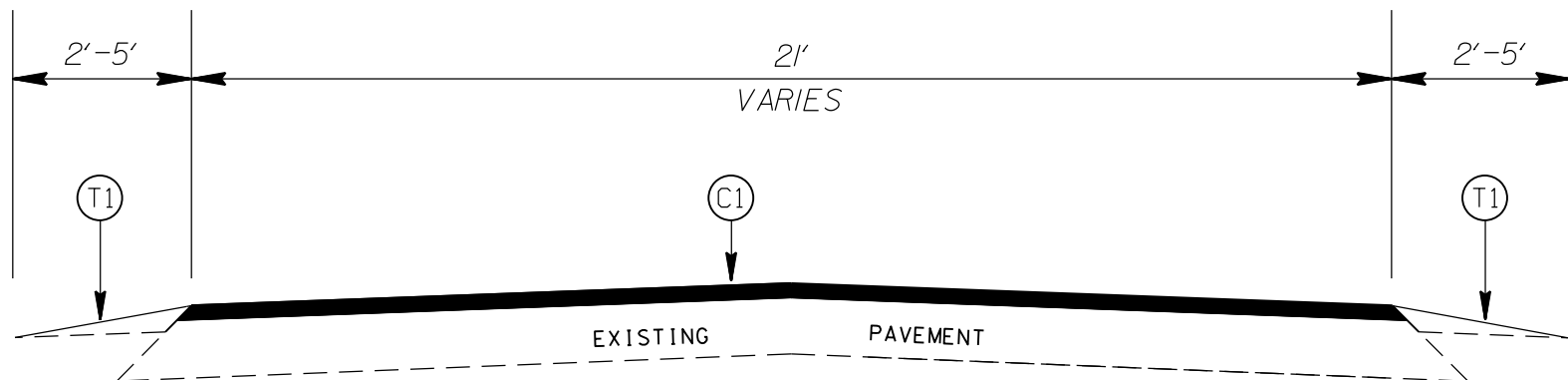


TYPICAL SECTION NO. 1
US 601
SR-2710 (WALKER RD)

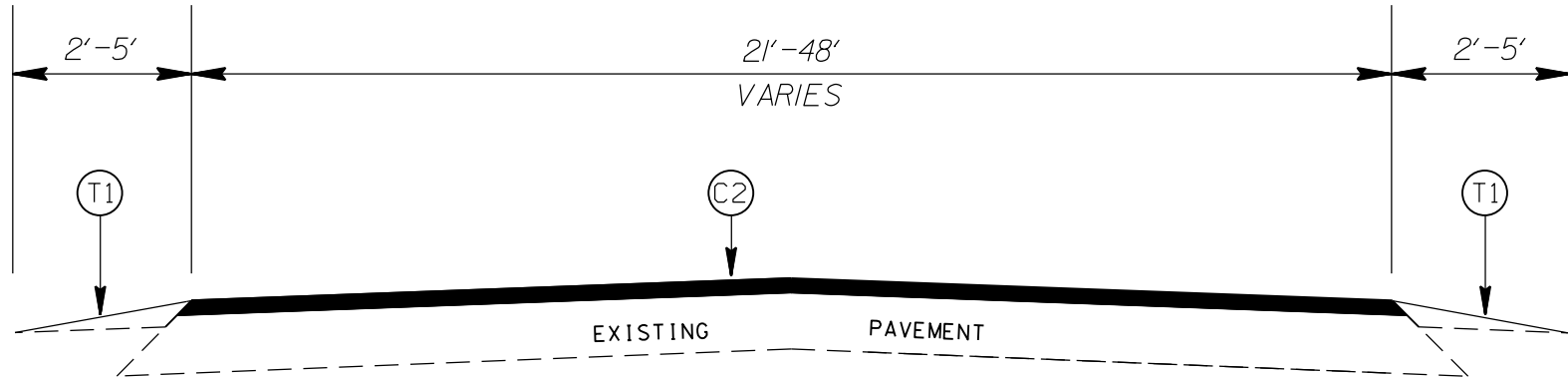
CABARRUS COUNTY
RESURFACING 2018-2019

SCALE	-NA-		REVISIONS
DATE	2/18		
DWG. BY	JWH		
DESIGN BY	JWH		
APPROVED	JAB		

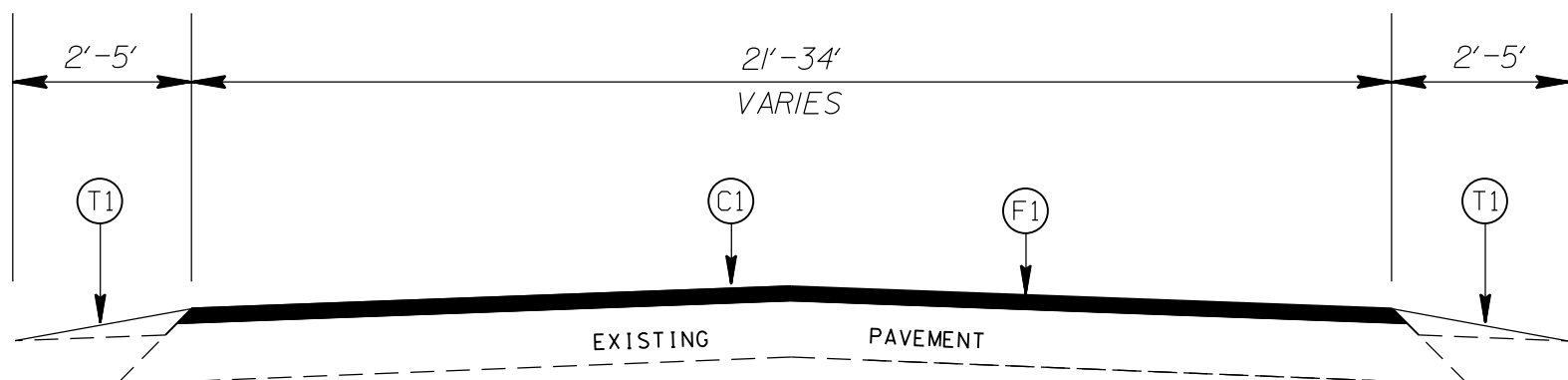
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.10.02.10131.1 ETC.	6	
F.A. PROJECT NO.			



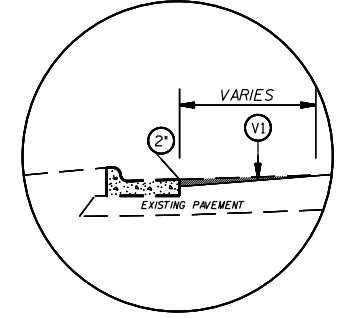
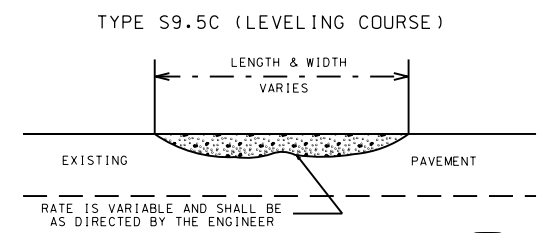
TYPICAL SECTION NO. 6
SR-1616 (TUCKASEEGEE RD)
SR-1524 (S. SCALEYBARK TRAIL)



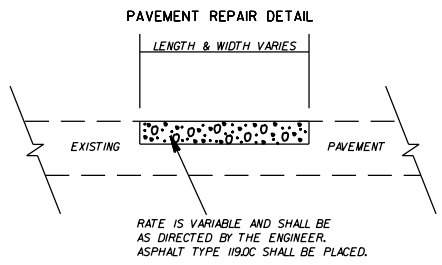
TYPICAL SECTION NO. 5
SR-1119 (WALLACE RD)



TYPICAL SECTION NO. 4
SR-2630 (COLD SPRINGS RD)



DETAIL FOR PROFILE MILLING (0' TO 2')



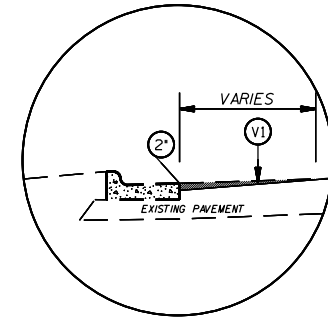
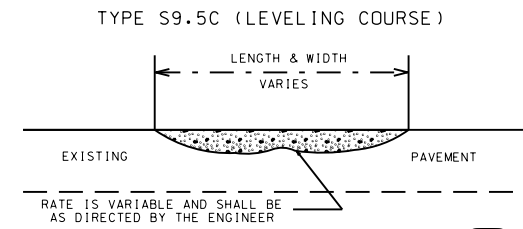
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE
T1	SHOULDER RECONSTRUCTION
V1	MILLING OF EXISTING PAVEMENT, 2"
V2	PROFILE MILLING OF EXISTING ASPHALT, 0'-2' (10' WIDTH)

- NOTES: 1. LEVELING COURSE TO BE PLACED AS DIRECTED BY THE ENGINEER
2. ON MAP #1, MAP ENDS AT BEGINNING OF CONCRETE RXR BRIDGE
3. ON MAP #1, #3, & #5, PLACE AST IMMEDIATELY BEFORE RESURFACING

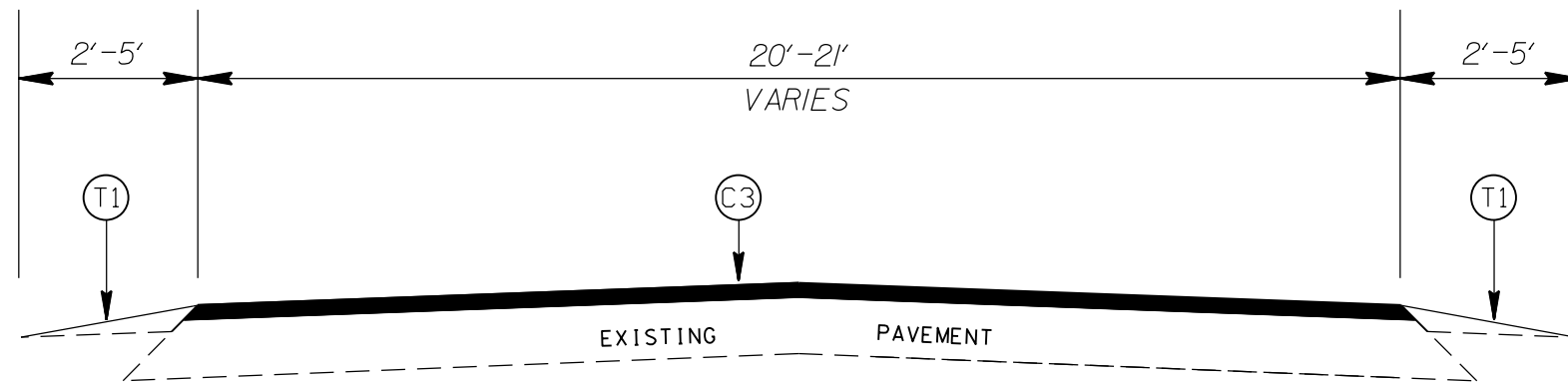
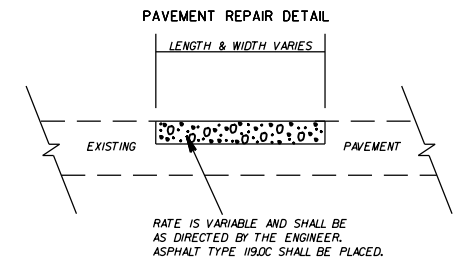
CABARRUS COUNTY
RESURFACING 2018-2019

SCALE	-NA-		REVISIONS
DATE	2/18		
DWG. BY	JWH		
DESIGN BY	JWH		
APPROVED	JAB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.10.02.10131.1 ETC.	7	
F.A. PROJECT NO.			




DETAIL FOR PROFILE MILLING (0' TO 2')



TYPICAL SECTION NO. 7
SR-1524 (SCALEYBARK TRAIL)
SR-2693 (HISTORIC SPRINGS DR)

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE
T1	SHOULDER RECONSTRUCTION
V1	MILLING OF EXISTING PAVEMENT, 2"
V2	PROFILE MILLING OF EXISTING ASPHALT, 0'-2' (10' WIDTH)

- NOTES: 1. LEVELING COURSE TO BE PLACED AS DIRECTED BY THE ENGINEER
2. ON MAP #1, MAP ENDS AT BEGINNING OF CONCRETE RXR BRIDGE
3. ON MAP #1, #3, & #5, PLACE AST IMMEDIATELY BEFORE RESURFACING

CABARRUS COUNTY RESURFACING 2018-2019		
SCALE	-NA-	
DATE	2/18	
DWG. BY	JWH	
DESIGN BY	JWH	
APPROVED	JAB	
		REVISIONS

PROJECT NO.	SHEET NO.	TOTAL NO.
2019CPT.10.02.10131.1, Etc	8	13

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	010600000-E	122000000-E	124500000-E	130800000-E	133000000-E	151900000-E	152000000-E	152300000-E	152400000-E	157500000-E	170400000-E	177500000-E	183800000-E	261200000-E	283000000-N	284500000-N	525500000-N	600000000-E	607101000-E	607102000-E
											BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	0" TO 2" MILLING	INCIDENTAL MILLING	SURFACE COURSE, \$9.5B	LEVELING COURSE, \$9.5B	SURFACE COURSE, \$9.5C	LEVELING COURSE, \$9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	6" DRIVEWAYS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	PORTABLE LIGHTING	TEMPORARY SILT FENCE	WATTLE	POLYACRYLAMIDE (PAM)
						MI	FT	CY	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SY	GAL	SY	EA	EA	LS	LF	LF	LB
2019CPT.10.02.10131.1	Cabarrus	1	US 601	FROM NC 24/27 (MP 4.09) TO RR BRIDGE (MP 2.41)	1, 2, 3	2	NO	NO	1.68	32	225	2,400	3.17	1,075	1,575			5,200	450	341	600	39,000	13,650	125	5	5	1	250	250	1
TOTAL FOR MAP NO. 1									1.68	32	225	2,400	3.17	1,075	1,575			5,200	450	341	600	39,000	13,650	125	5	5	1	250	250	1
TOTAL FOR PROJ NO. 2019CPT.10.02.10131.1									1.68	32	225	2,400	3.17	1,075	1,575			5,200	450	341	600	39,000	13,650	125	5	5	1	250	250	1
2019CPT.10.02.20131.1	Cabarrus	2	SR 1119 (WALLACE RD)	FROM US 601 (MP 0.0) TO SR 1117 (BETHEL AVE. EXT) (MP 1.53)	5	2	NO	NO	1.53	21	200	100	3.06		750			2,600	700	202	700			100					200	1
TOTAL FOR MAP NO. 2									1.53	21	200	100	3.06		750			2,600	700	202	700			100				200	1	
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.1									1.53	21	200	100	3.06		750			2,600	700	202	700			100				200	1	
2019CPT.10.02.20131.2	Cabarrus	3	SR 2630 (COLD SPRINGS RD, SOUTH)	FROM SR 2411 (COLD SPRINGS RD)(MP 0.0) TO SR 1132 (MIAMI CHURCH RD) (MP 2.18)	4	2	NO	NO	2.18	21	225	125	4.36		900			2,850	800	223	1,000	29,500	10,325	125	1				330	1
TOTAL FOR MAP NO. 3									2.18	21	225	125	4.36		900			2,850	800	223	1,000	29,500	10,325	125	1				330	1
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.2									2.18	21	225	125	4.36		900			2,850	800	223	1,000	29,500	10,325	125	1				330	1
2019CPT.10.02.20131.3	Cabarrus	4	SR 2693 (HISTORIC SPRINGS DRIVE)	FROM THE PAVEMENT JOINT AT SR 2630 (COLD SPRINGS RD) (MP 0.0) TO THE PAVEMENT JOINT AT SR 2411 (COLD SPRINGS RD)(MP 0.55)	7	2	NO	NO	0.55	20	50	30	1.10		200	550	125			41	225			225						
TOTAL FOR MAP NO. 4									0.55	20	50	30	1.10		200	550	125			41	225			225						
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.3									0.55	20	50	30	1.10		200	550	125			41	225			225						
2019CPT.10.02.20131.4	Cabarrus	5	SR 2710 (WALKER RD)	FROM THE PAVEMENT JOINT AT NC 49 (MP 1.7) TO THE PAVEMENT JOINT AT SR 2411 (COLD SPRINGS RD) (MP 2.49)	1	2	NO	NO	0.79	20	125	100	1.58		200			1,200	400	98	400	9,275	3,250	90					120	1
TOTAL FOR MAP NO. 5									0.79	20	125	100	1.58		200			1,200	400	98	400	9,275	3,250	90				120	1	
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.4									0.79	20	125	100	1.58		200			1,200	400	98	400	9,275	3,250	90				120	1	
2019CPT.10.02.20131.5	Cabarrus	6	SR 1524 (N. SCALEYBARK TRAIL)	FROM PAVEMENT JOINT AT SR 1394 (POPLAR TENT RD) (MP 0.18) TO THE CUL DE SAC (MP 1.49)	7	2	NO	NO	1.31	21	120	25	2.62		925	1,400	325			106	600			300		1				
TOTAL FOR MAP NO. 6									1.31	21	120	25	2.62		925	1,400	325			106	600			300		1				
2019CPT.10.02.20131.5	Cabarrus	7	SR 1524 (S. SCALEYBARK TRAIL)	FROM THE PAVEMENT JOINT AT SR 1394 (POPLAR TENT RD)(MP 0.16) TO THE PAVEMENT JOINT AT SR 1575 (HIGH RIDGE LN.)(MP 0.0)	6	2	NO	NO	0.16	22	20		0.32		300			275	50	20	100			35						
TOTAL FOR MAP NO. 7									0.16	22	20		0.32		300			275	50	20	100			35						
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.5									1.47	22	140	25	2.94		1,225	1,400	325			126	700			335		1				
2019CPT.10.02.20131.6	Cabarrus	8	SR 1616 (TUCKASEEGEE RD)	FROM THE PAVEMENT JOINT AT NC 3 (MP 2.95) TO THE PAVEMENT JOINT AT THE ROWAN COUNTY LINE (0.01)	6	2	NO	NO	2.94	21	300	250	5.88		1,300			3,600	1,050	284	1,400			200				300	1	
TOTAL FOR MAP NO. 8									2.94	21	300	250	5.88		1,300			3,600	1,050	284	1,400			200				300	1	
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.6									2.94	21	300	250	5.88		1,300			3,600	1,050	284	1,400			200				300	1	
GRAND TOTAL									11.14		1,265	3,030	22.09	1,075	6,150	1,950	450	15,725	3,450	1,315	5,025	77,775	27,225	1,200	6	6	1	250	1,200	5

NOTE: The contractor shall not work or park equipment outside of the Right of Way in Historic Areas.

PROJECT NO.	SHEET NO.	TOTAL NO.
2019CPT.10.02.10131.1, Etc	9	13

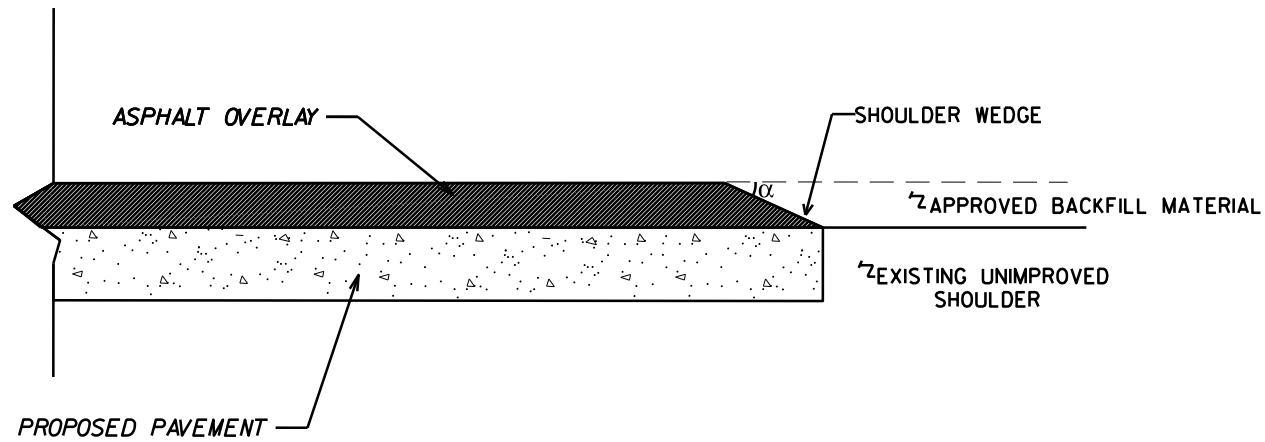
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4413000000-E	4457000000-N	4510000000-N	4695000000-E	4710000000-E	4721000000-E			4725000000-E			4810000000-E		4820000000-E	4891000000-E		4905000000-N				
									WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	8" X 90 M YELLOW THERMO	24" X 120 M WHITE THERMO	THERMO MSG STOP 120 M	THERMO MSG AHEAD 120 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	MERGE ARROW	4" WHITE PAINT	4" YELLOW PAINT	8" YELLOW PAINT	THERMOPLASTIC PAVEMENT MARKING LINES 4", 90 MILS (HRM)	THERMOPLASTIC PAVEMENT MARKING LINES 4", 120 MILS (HRM)	SNOW PLOWABLE MARKERS					
									SF	LS	HR	LF	LF	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	EA					
2019CPT.10.02.10131.1	Cabarrus	1	US 601	FROM NC 24/27 (MP 4.09) TO RR BRIDGE (MP 2.41)	1, 2, 3	2	1.68	32		0.15	40.00	475	125			13	3	3					18,000	18,975	300				
TOTAL FOR MAP NO. 1							1.68			0.15	40	475	125			13	3	3					18,000	18,975	300				
TOTAL FOR PROJ NO. 2019CPT.10.02.10131.1							1.68			0.15	40	475	125			13	3	3					18,000	18,975	300				
															19														
2019CPT.10.02.20131.1	Cabarrus	2	SR 1119 (WALLACE RD)	FROM US 601 (MP 0.0) TO SR 1117 (BETHEL AVE. EXT) (MP 1.53)	5	2	1.53	21		0.14			150			2	2			33,500	30,000	170							
TOTAL FOR MAP NO. 2							1.53			0.14			150			2	2			33,500	30,000	170							
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.1							1.53			0.14			150			2	2			33,500	30,000	170							
															4			63,500											
2019CPT.10.02.20131.2	Cabarrus	3	SR 2630 (COLD SPRINGS RD, SOUTH)	FROM SR 2411 (COLD SPRINGS RD)(MP 0.0) TO SR 1132 (MIAMI CHURCH RD) (MP 2.18)	4	2	2.18	21	250.0	0.20		200	40	8	5	1							23,750	25,000					
TOTAL FOR MAP NO. 3							2.18			250.0	0.20	200	40	8	5	1								23,750	25,000				
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.2							2.18			250.0	0.20	200	40	8	5	1								23,750	25,000				
															13			1											
2019CPT.10.02.20131.3	Cabarrus	4	SR 2693 (HISTORIC SPRINGS DRIVE)	FROM THE PAVEMENT JOINT AT SR 2630 (COLD SPRINGS RD) (MP 0.0) TO THE PAVEMENT JOINT AT SR 2411 (COLD SPRINGS RD)(MP 0.55)	7	2	0.55	20		0.05																			
TOTAL FOR MAP NO. 4							0.55			0.05																			
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.3							0.55			0.05																			
2019CPT.10.02.20131.4	Cabarrus	5	SR 2710 (WALKER RD)	FROM THE PAVEMENT JOINT AT NC 49 (MP 1.7) TO THE PAVEMENT JOINT AT SR 2411 (COLD SPRINGS RD) (MP 2.49)	1	2	0.79	20		0.07											17,000	16,100							
TOTAL FOR MAP NO. 5							0.79			0.07											17,000	16,100							
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.4							0.79			0.07											17,000	16,100							
															33,100														
2019CPT.10.02.20131.5	Cabarrus	6	SR 1524 (N. SCALEYBARK TRAIL)	FROM PAVEMENT JOINT AT SR 1394 (POPLAR TENT RD) (MP 0.18) TO THE CUL DE SAC (MP 1.49)	7	2	1.31	21		0.12																			
TOTAL FOR MAP NO. 6							1.31			0.12																			
2019CPT.10.02.20131.5	Cabarrus	7	SR 1524 (S. SCALEYBARK TRAIL)	FROM THE PAVEMENT JOINT AT SR 1394 (POPLAR TENT RD)(MP 0.16) TO THE PAVEMENT JOINT AT SR 1575 (HIGH RIDGE LN.)(MP 0.0)	7	2	0.16	22		0.01																			
TOTAL FOR MAP NO. 7							0.16			0.01																			
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.5							1.47			0.13																			
2019CPT.10.02.20131.6	Cabarrus	8	SR 1616 (TUCKASEEGEE RD)	FROM THE PAVEMENT JOINT AT NC 3 (MP 2.95) TO THE PAVEMENT JOINT AT THE ROWAN COUNTY LINE (0.01)	6	2	2.94	21	330.0	0.26		42	8	5									31,500	29,500					
TOTAL FOR MAP NO. 8							2.94			330	0		42	8	5										31,500	29,500			
TOTAL FOR PROJ NO. 2019CPT.10.02.20131.6							2.94			330	0		42	8	5										31,500	29,500			
															13														
GRAND TOTAL							11.14			580	1	40	675	357	16	10	16	5	3	50,500	46,100	170	73,250	73,475	300				
															26			24		96,600									

NOTES:

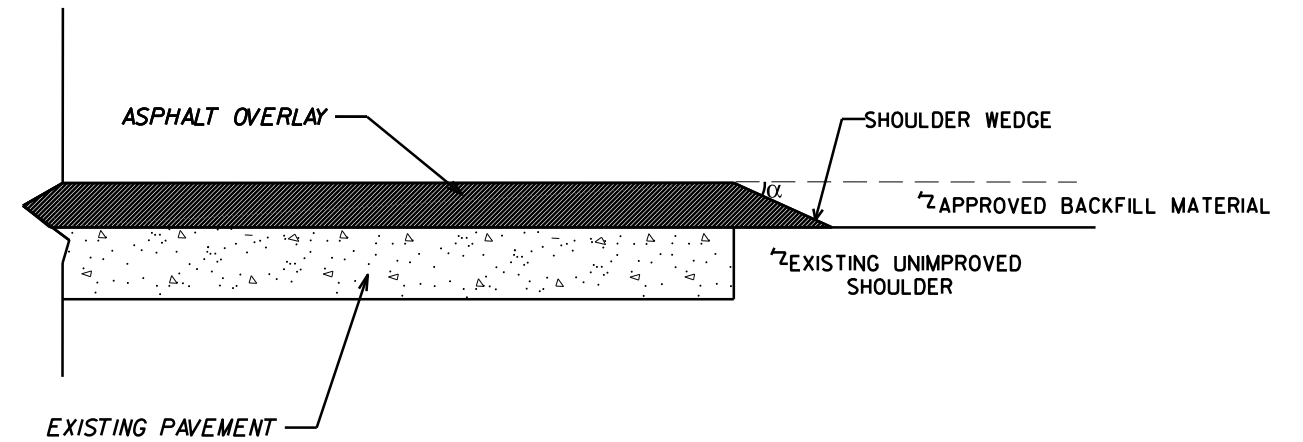
- 1) DETAIL DOES NOT APPLY TO OGAFCC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.10.02.10131.1 ETC.	10	
F.A. PROJECT NO.			



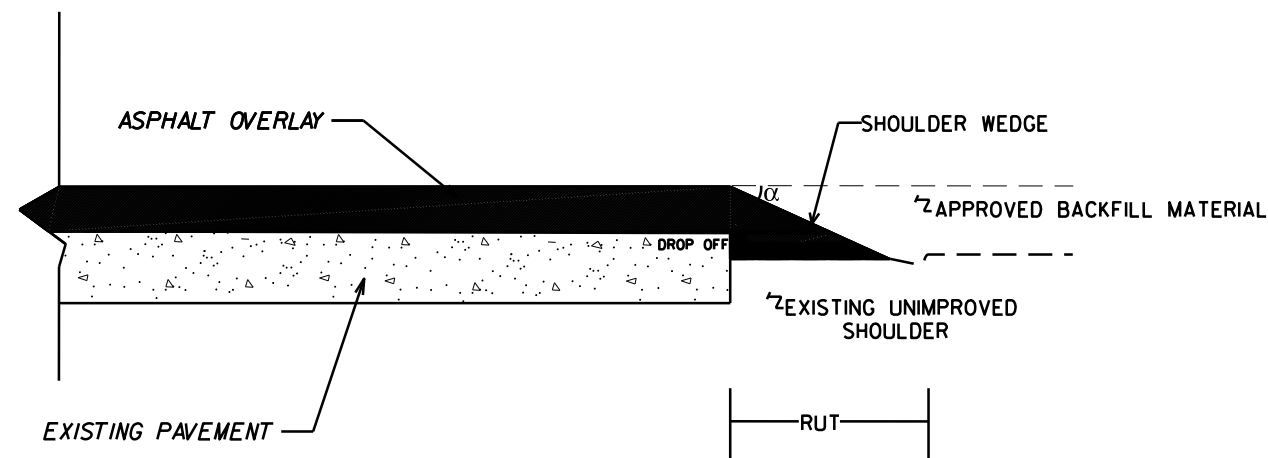
SHOULDER WEDGE DETAIL

(RESURFACING PROJECTS W/ WIDENING OR WITH EXISTING PAVED SHOILDER HAVING NO DROPOFFS)



SHOULDER WEDGE DETAIL

(RESURFACING PROJECTS W/ NO WIDENING)



SHOULDER WEDGE DETAIL
(RESURFACING ADJACENT TO RUTTED SHOULDER)

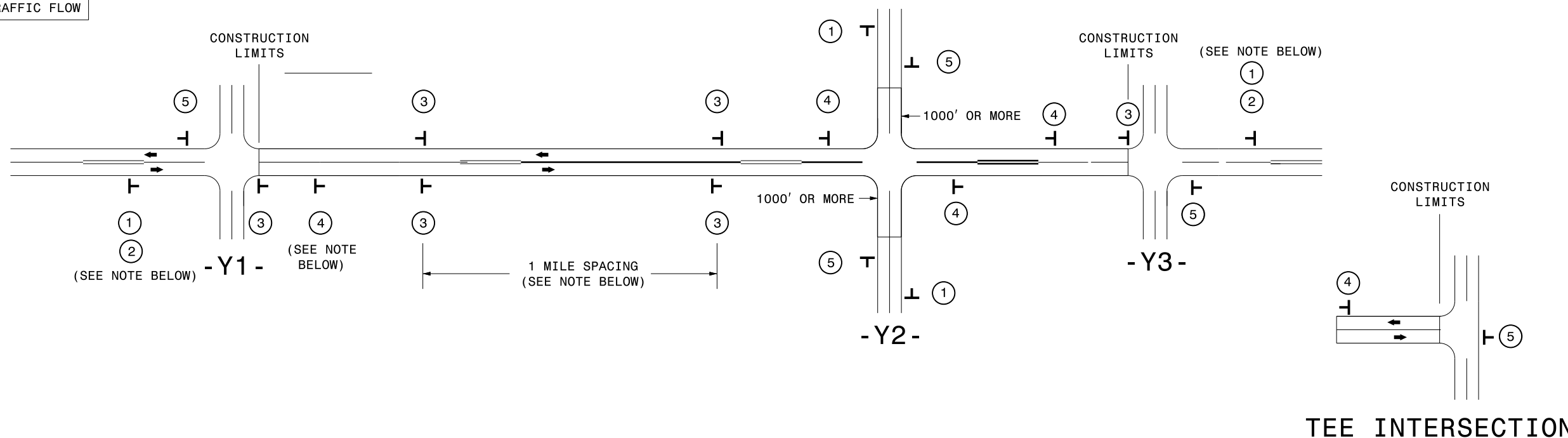
$\alpha = 30$ DEGREES

SHOULDER WEDGE DETAILS		
SCALE	-NA-	REVISIONS
DATE	2/18	
DWG. BY	JAB	
DESIGN BY	JAB	
APPROVED	JAB	



SIGNING FOR RESURFACING PROJECTS

LEGEND
 STATIONARY SIGN
 DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	②	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	③	 <small>SP 13107 48" X 48"</small>	<ul style="list-style-type: none"> - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
	④	 <small>SP 13106 48" X 48"</small>	<ul style="list-style-type: none"> - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. - DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE. 	
	⑤	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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

MAPS LESS THAN 2 MILES

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



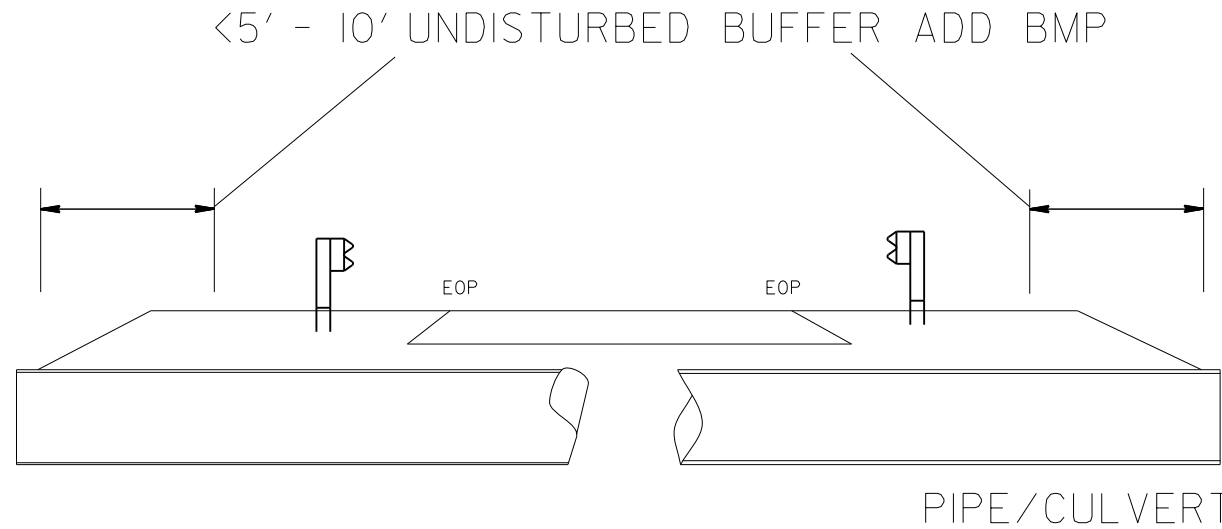
**ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY
RESURFACING**

08-MAR-2018 15:40 S:\Storage\DISTRICT\2018-2019 District 01\Contract Resurfacing\2018-2019 Cabarrus Resurfacing\Typicals.dgn

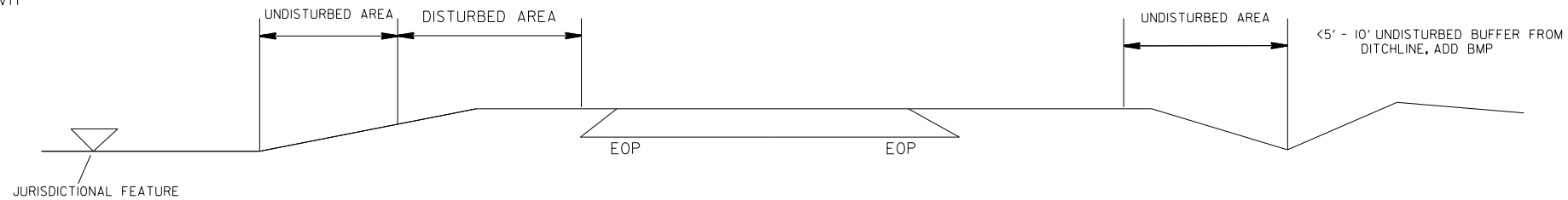
NOTES: LESS THAN 5' - 10' UNDISTURBED BUFFER FROM ROW, DITCHLINE, WATER FEATURE, OR DRAINAGE INLET, ADD BMP.

BMP OPTIONS: WATTLE OR SILT FENCE

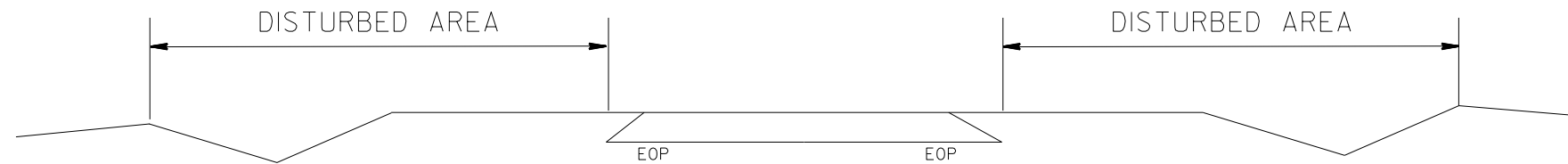
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.10.02.10131.I ETC.	12	
F.A. PROJECT NO.			



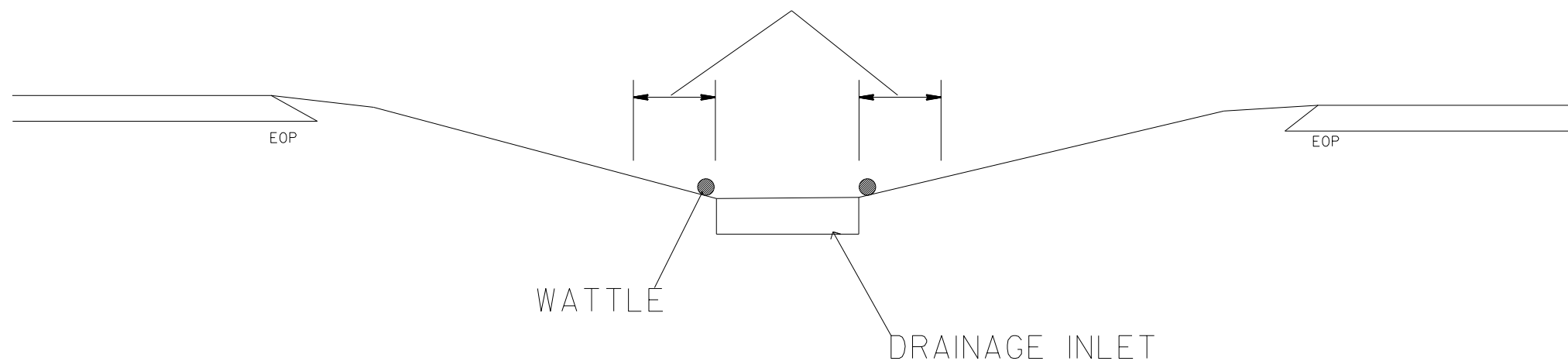
<5' - 10' UNDISTURBED BUFFER FROM JURISDICTIONAL FEATURE ADD BMP



USE BMP'S IF SHOULDERS AND/OR FRONTSLOPES AND/OR DITCHLINE AND/OR BACKSLOPES ARE DISTURBED



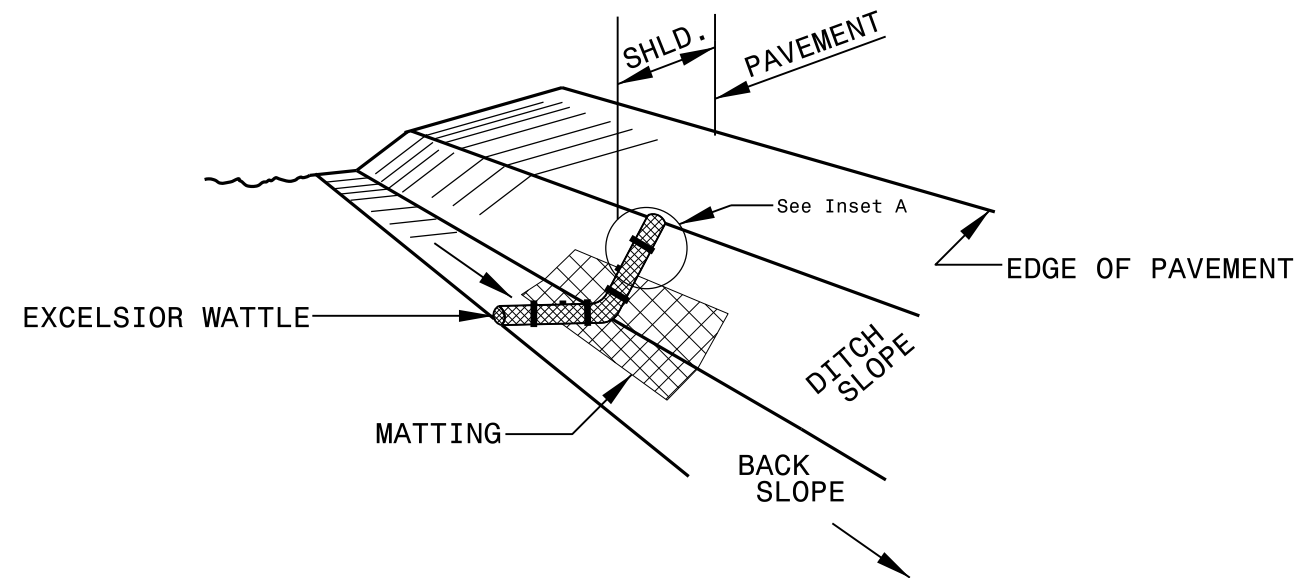
<5' - 10' UNDISTURBED BUFFER FROM INLET, ADD WATTLE



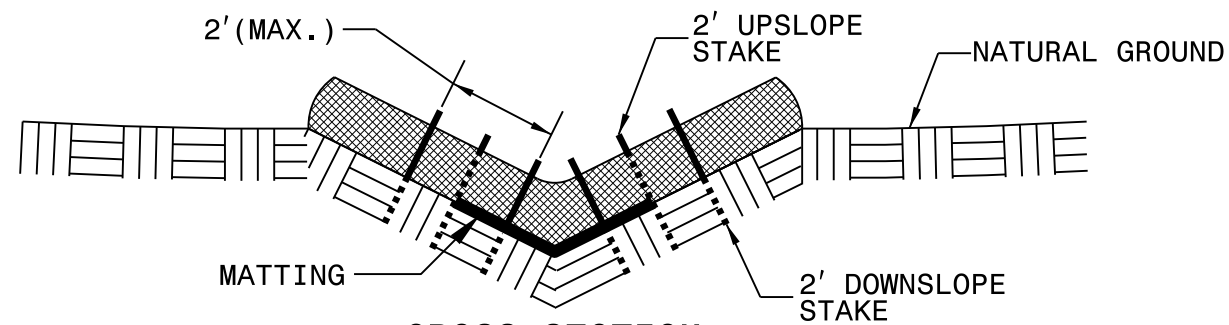
EROSION CONTROL DETAIL

SCALE	-NA-		REVISIONS
DATE	2/18		
DWG. BY	JAB		
DESIGN BY	JAB		
APPROVED	JAB		

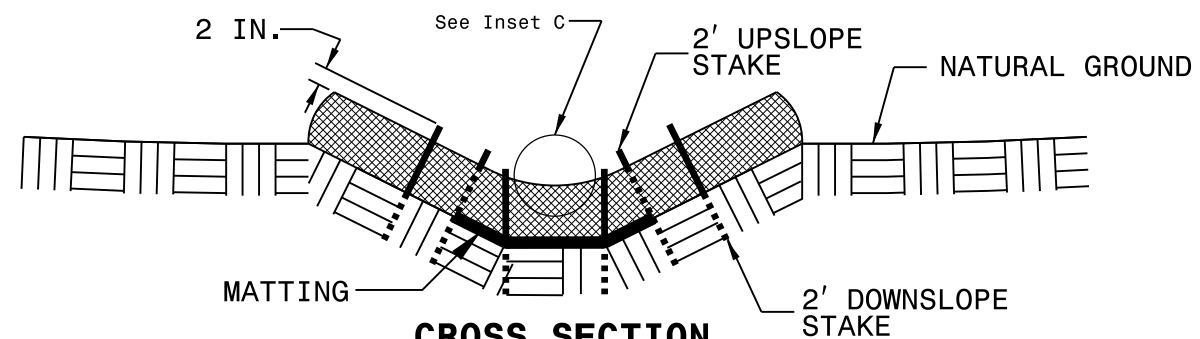
WATTLE WITH POLYACRYLAMIDE DETAIL



ISOMETRIC VIEW



**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

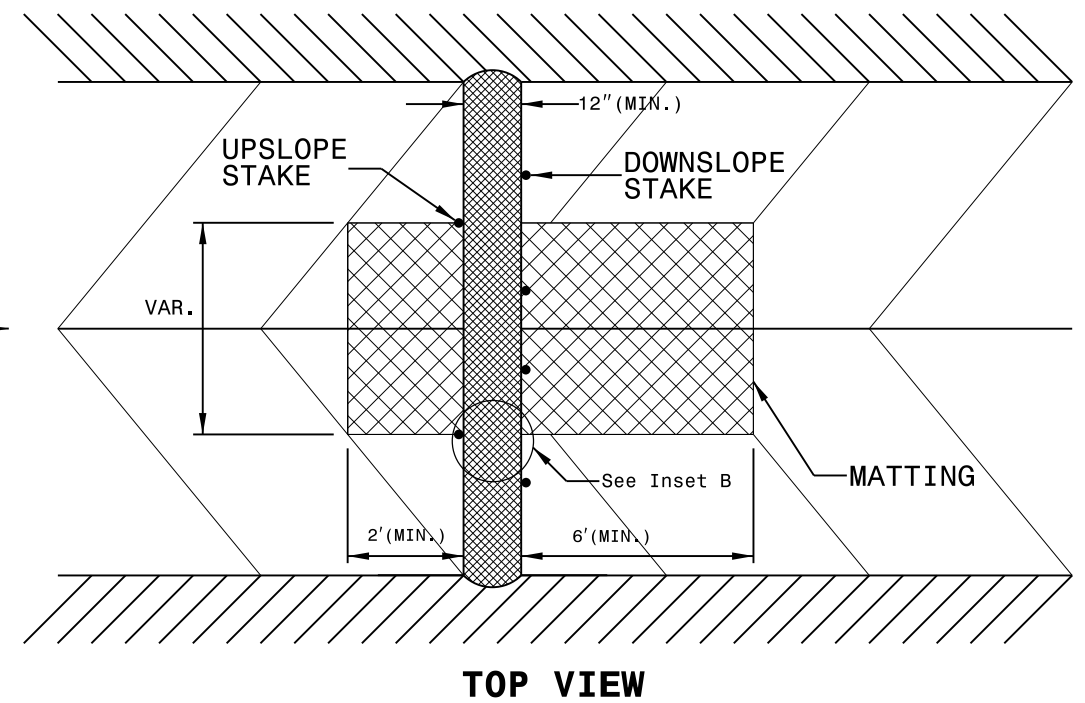
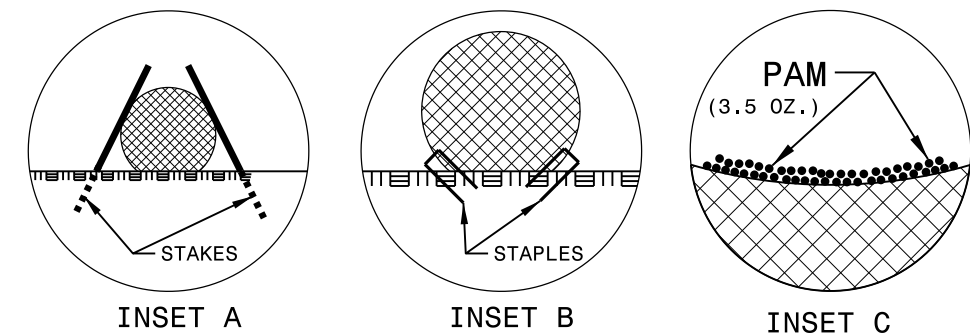
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TOP VIEW