

	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
	N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	2	
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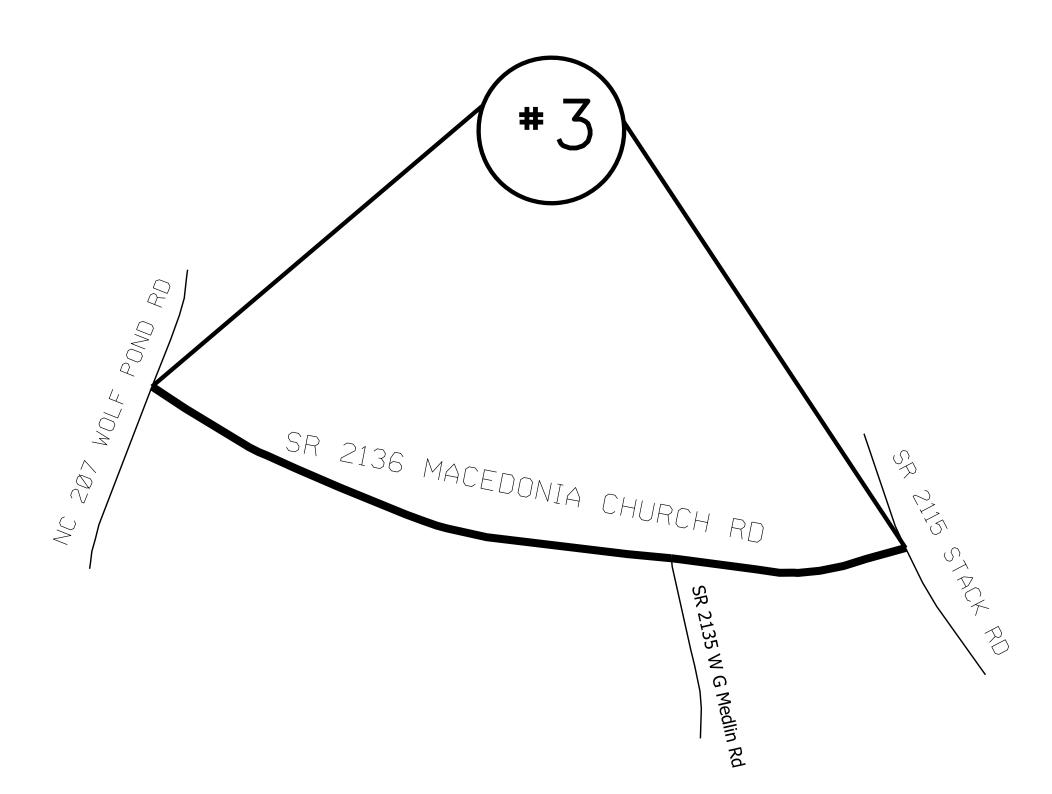
ENLARGED MUNICIPAL AND SUBURBAN AREAS

NORTH CAROLINA

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #2 NC 742 2.6 MILES FROM ANSON COUNTY LINE TO STANLY COUNTY LINE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	3	
F.A. PRO	JECT NO.	_	





UNION COUNTY

NORTH CAROLINA

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #3 SR 2136 MACEDONIA CHRUCH RD
1.09 MILES
FROM NC 207
TO SR 2115 STACK RD

STATE	PROJECT NO.	SHEET NO.	SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	4	
F.A. PRO	JECT NO.		
	N		
	74		



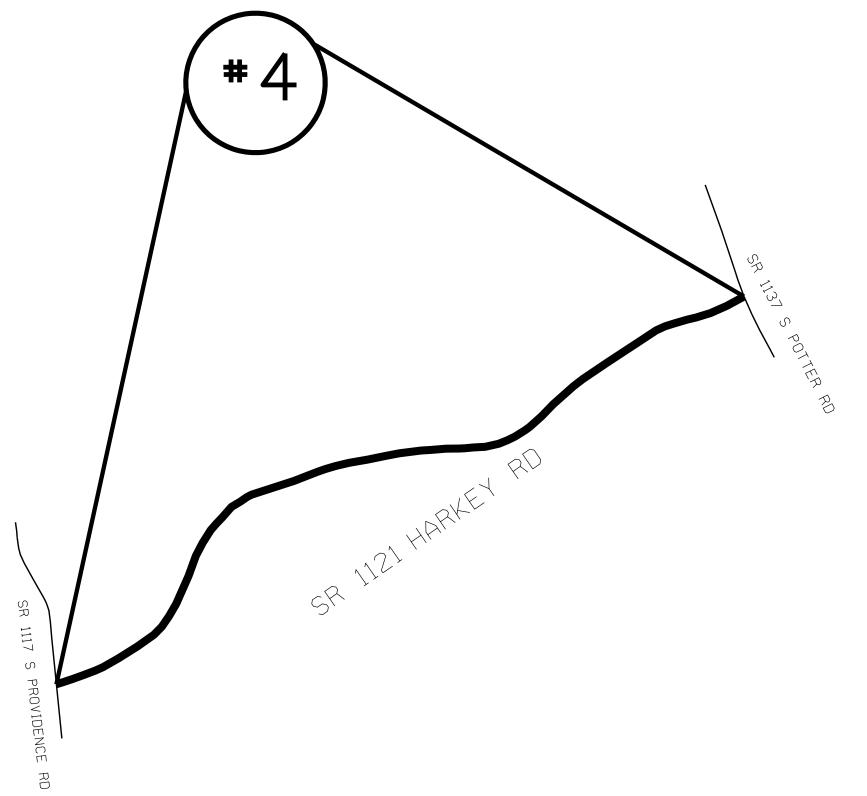
TOTAL

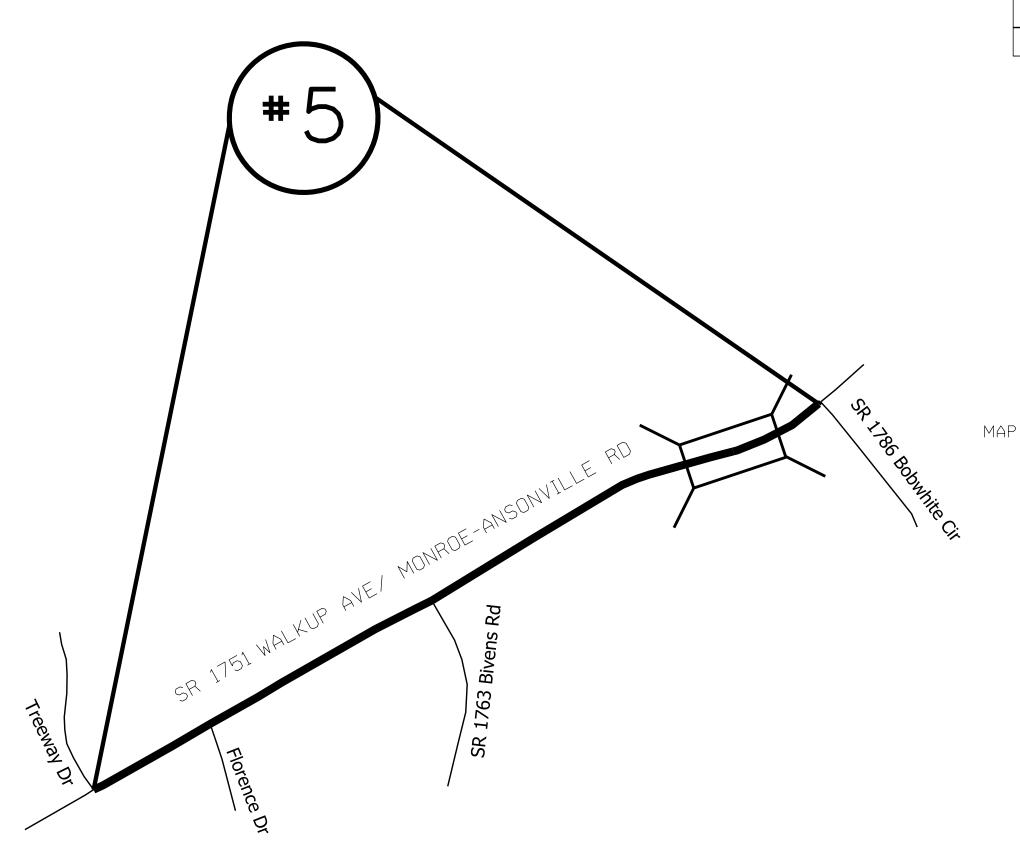
UNION COUNTY

NORTH CAROLINA

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #4 SR 1121 HACRKEY RD
2.32 MILES
FROM SR 1117 S PROVIDENCE RD
TO SR 1137 S POTTERS RD





STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	5	
F.A. PROJECT NO.			



NORTH CAROLINA

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #5 SR 1751 WALKUP AVE/MONRE-ANSONVILLE RD .92 MILES FROM TREEWAY DR TO SR 1786 BOBWHITE CIR

#6	N F.A
SR 1003 WHITE STORE RD	sford Rd
SR 1003 WHITE STORE RD	SR 1005 Landsford Rd

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	6	



ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

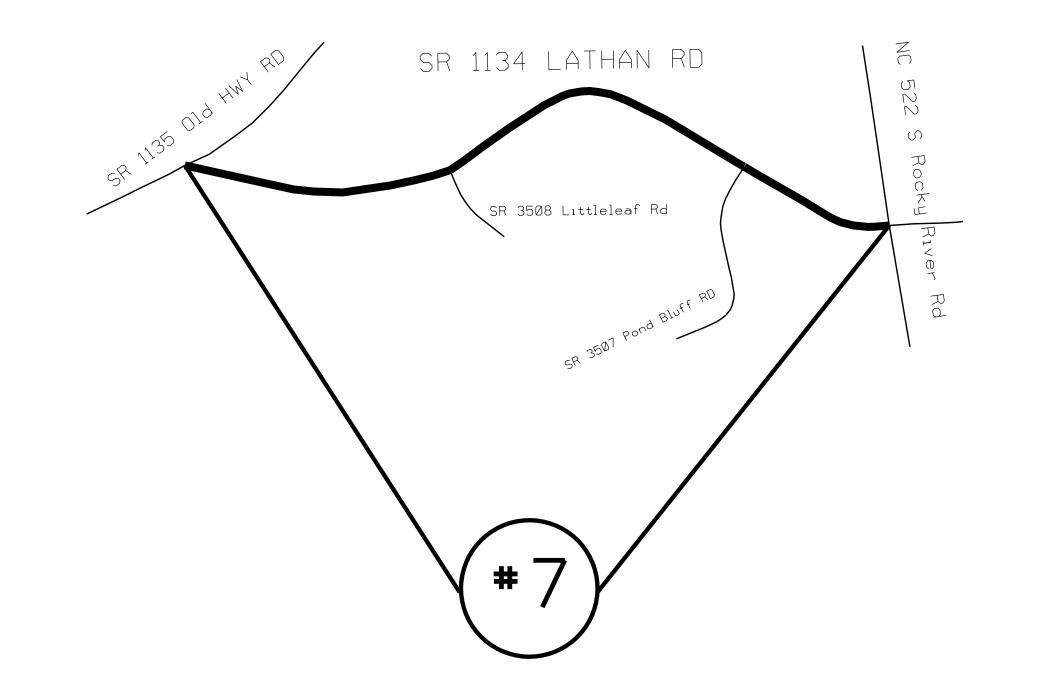
NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #6 SR 1003 WHITE STORE RD
2.45 MILES
FROM SR 1911 LEONARD MORGAN RD
TO SR 1005 LANDSFORD RD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	7	
F.A. PROJECT NO.			



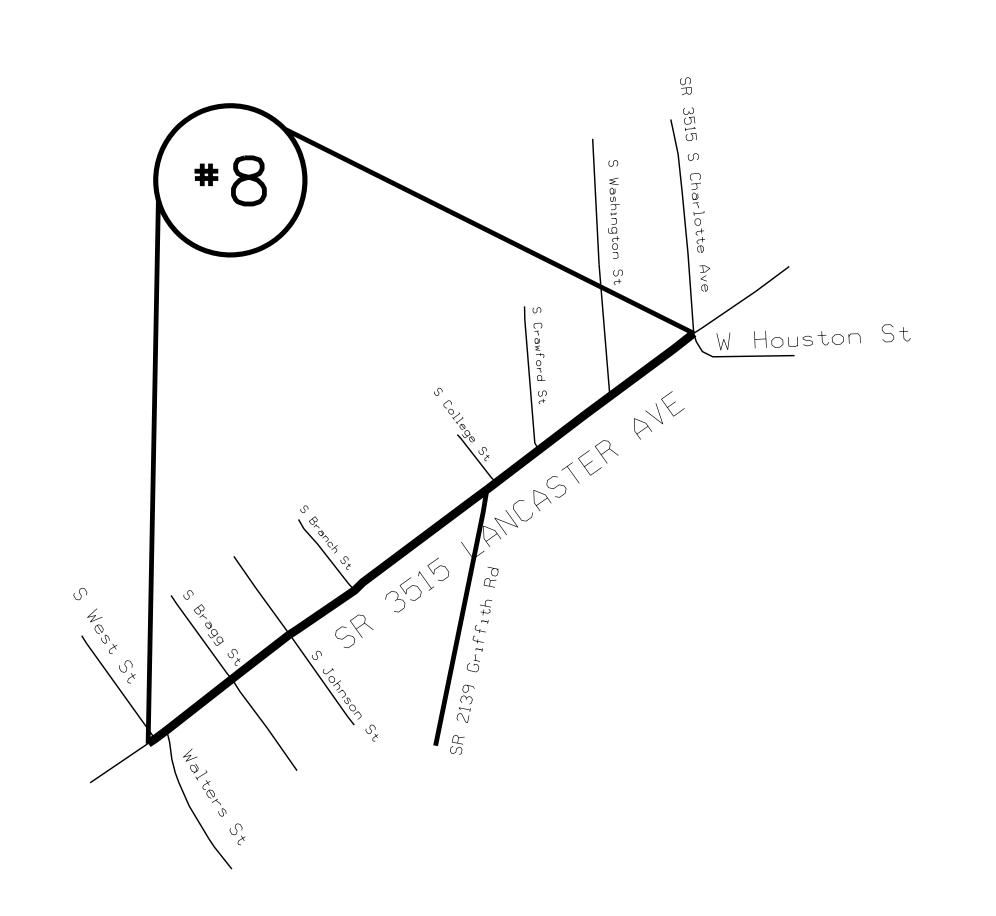


UNION COUNTY

NORTH CAROLINA

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #7 SR 1134 LATHAN RD .73 MILES FROM SR 1135 OLD HIGHWAY RD TO NC 522 S ROCKY RIVER RD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	8	



ENLARGED MUNICIPAL AND SUBURBAN AREAS

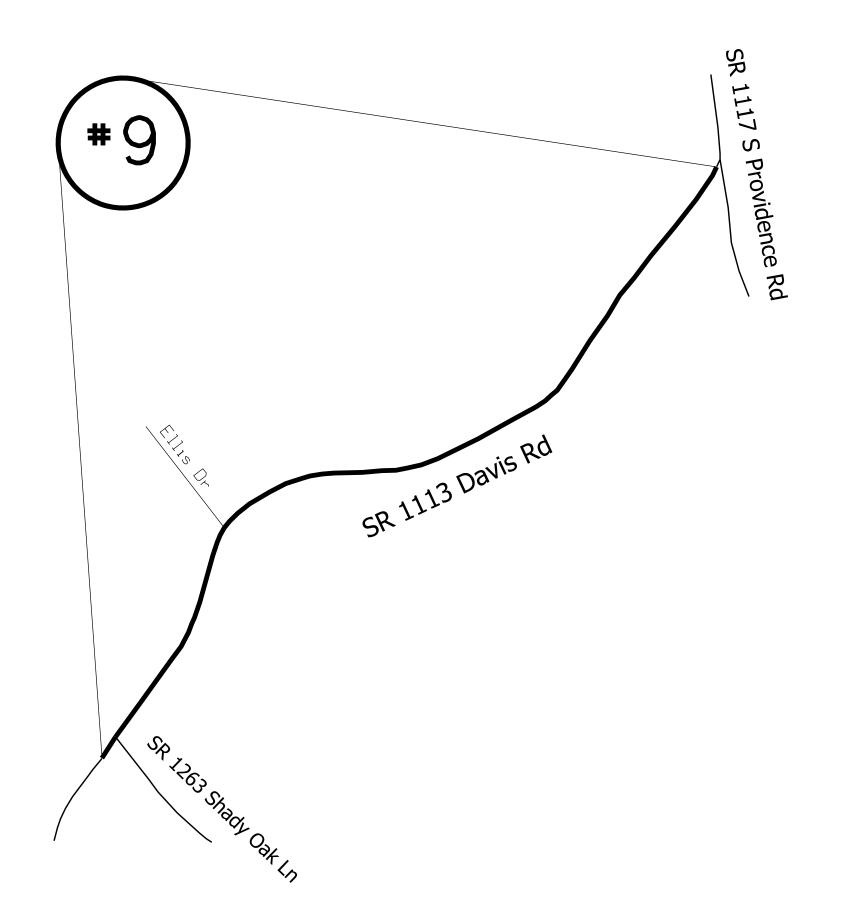
UNION COUNTY

NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #8 SR 3515 LANCASTER AVE .49 MILES FROM SR 3515 S CHARLOTTE AVE TO WEST ST



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	88	
F.A. PROJECT NO.			



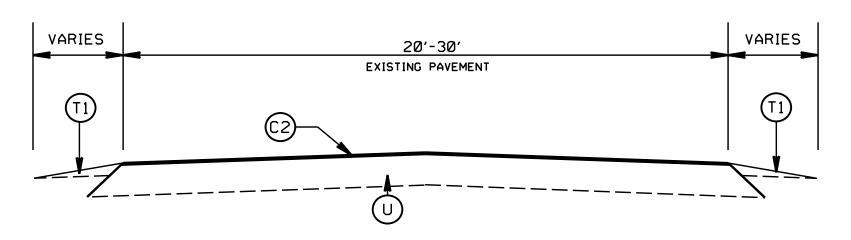
UNION COUNTY

NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #9 SR 1113 Davis Rd 1.42 MILES FROM SR 1117 S PROVIDENCE RD TO SR 1263 SHADY OAK LN



TYPICAL SECTION NO.1

NC 742 (MAP 2)

SR 2136 MACEDONIA CHRUCH RD (MAP 3)

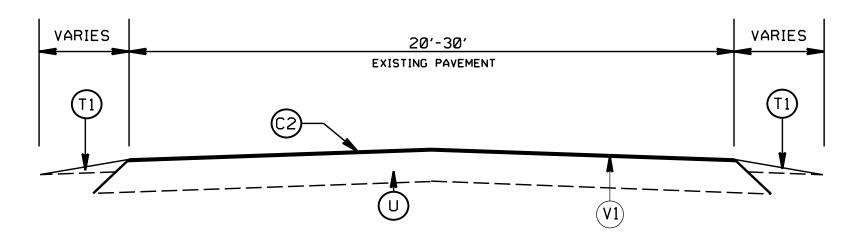
SR 1121 HARKEY RD (MAP 4)

SR 1751 WALKUP AVE/MONROE-ANSONVILLE RD (MAP 5)

APPROX STA 10+00 TO 53+15

SR 1003 WHITE STROE RD (MAP 6)

SR 1134 LATHAN RD (MAP 7)



TYPICAL SECTION NO.2

SR 1751 WALKUP AVE/MONROE-ANSONVILLE RD (MAP 5)

APPROX STA 53+15 TO 54+72

APPROX STA 55+87 TO 58+00

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	9	
S A GOO ISCT NO			

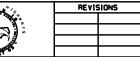
PAVEMENT SCHEDULE

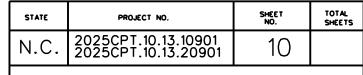
(C1)	PROP. APPROX. 2.0° ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SO. YD.
(C2)	PROP. APPROX. 1.5° ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SO. YD.
(F1)	ASPHALT SURFACE TREATMENT, MAT COAT * 78
(<u>1</u>	SHOULDER RECONSTRUCTION
(e)	EXISTING PAVEMENT
(k)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.

2025 UNION COUNTY RESURFACING

SCALE -NADATE II/2
DWG. BY AJB
DESIGN BY AJB
ARREQUED CA





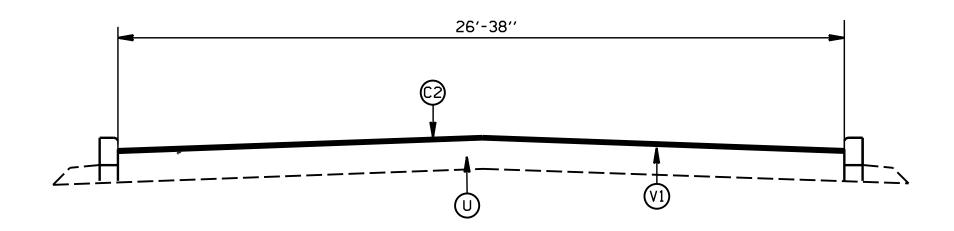


EXISTING CONCRETE BRIDGE WITH ASPHALT RIDING SURFACE V1

TYPICAL SECTION NO.3

SR 1751 WALKUP AVE/MONROE-ANSONVILLE RD (MAP 5)

APPROX STA 54+72 TO 55+87



TYPICAL SECTION NO. 4 SR 3515 LANCASTER AVE (MAP 8)

Ξ	PROP. APPROX. 2.0° ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SO. YD.
(Ñ)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SO. YD.
	ASPHALT SURFACE TREATMENT, MAT COAT . 78
ij	SHOUL OF RECONSTRUCTION

PAVEMENT SCHEDULE

MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.

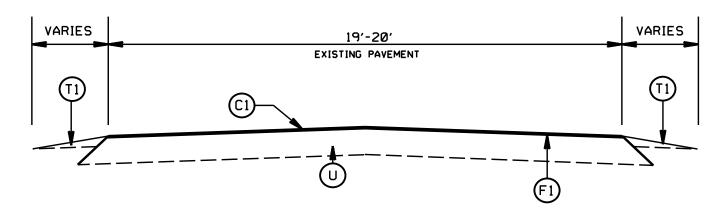
EXISTING PAVEMENT

2025 UNION COUNTY RESURFACING

SCALE	-NA-	Γ
DATE	11/23	
DWG. BY	AJB	
DESIGN BY	AJB	
APPROVED	CLA	

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Spinite Co	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	11	



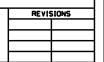
TYPICAL SECTION NO.5 SR 1113 DAVIS RD (MAP 9)

PAVEMENT SCHEDULE

<u>©</u>	PROP. APPROX. 2.0° ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SO. YD.
(Z)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SO. YD.
(F)	ASPHALT SURFACE TREATMENT, MAT COAT = 78
(E)	SHOULDER RECONSTRUCTION
(EXISTING PAVEMENT
(s)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.

2025 UNION COUNTY RESURFACING



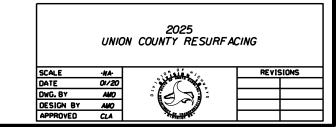


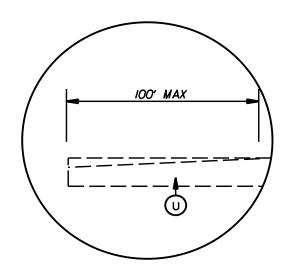
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	12	
F.A. PROJECT NO.			

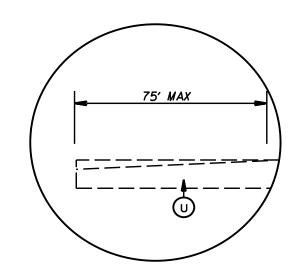
NOTES:

I.DEPTH OF PATCHING WILL BE AS DIRECTED BY THE ENGINEER.

- 2. SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER.
- 3.MAP 5 (WALKUP AVE/ MONROE-ANSONVILLE RD), INCIDENTAL MILLING WILL NOT BE PAID FOR TAPERS TO 1.5" FOR MILLING OF THE BRIDGE.MILLING SHOWN ON TYPICALS 3.4 AND 5 WILL BE PAID AS 1.5" MILLING.
- 4.MAP 8 (LANCASTER AVE), MILL AND FILL ASHPLAT CONNECTION BETWEEN GRIFFITH RD AND LANCASTER AVE MAY BE REQUIRED IF ASPHALT SECTION IS NOT RESURFACED WITH GRIFFTH RD. SEE INTERSECTION DETIAL TYPICAL SHEET MAP 8 COMMENTS.
- 5.MAP 8 (LANCASTER AVE) REMOVE AND REPLACE CURB RAMP AT CORNER OF S BRAGG ST AND LANCASTER AVE, HEADING TOWARD S JOHNSON ST...



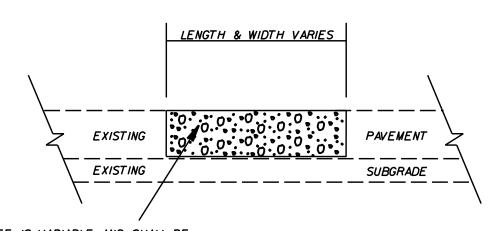




DETAIL FOR INCIDENTAL MILLING (O"TO 2.0")

DETAIL FOR INCIDENTAL MILLING (O" TO 1.5")

PATCHING DETAIL



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE 119.0C SHALL BE PLACED.

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.10.13.10901 2025CPT.10.13.20901	13	

F.A. PROJECT NO.

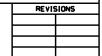
PAVEMENT SCHEDULE

CI	PROP. APPROX. 2.0° ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SO. YD.
(2)	PROP. APPROX. 1.5° ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SO. YD.
F1	ASPHALT SURFACE TREATMENT, MAT COAT = 78
(E)	SHOULDER RECONSTRUCTION
(EXISTING PAVEMENT
(s)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.

2025 UNION COUNTY RESURFACING

SCALE	-NA-	
DATE	1/20	
DWG. BY	AMO	
DESIGN BY	AMO	
APPROVED	CLA	

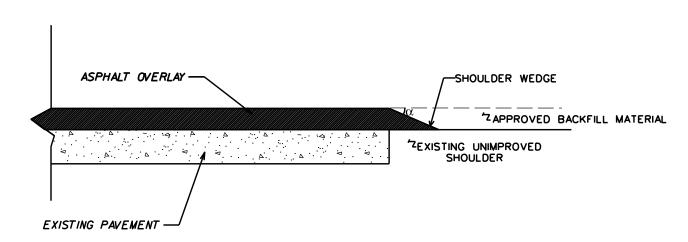




NOTES:

- 1) DETAIL DOES NOT APPLY TO OGAFC 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.

ASPHALT OVERLAY—	SHOULDER WEDGE
	'
	ZEXISTING UNIMPROVED SHOULDER
OPOSED PAVEMENT —	



STATE

N.C.

F.A. PROJECT NO.

PROJECT NO.

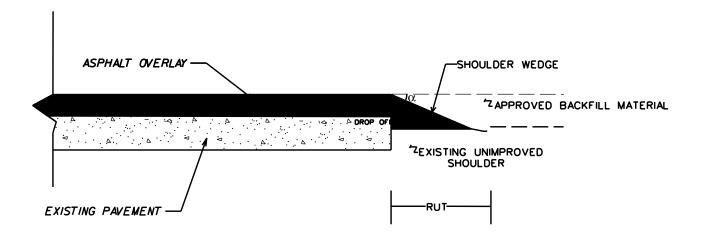
2025CPT.10.13.10901 2025CPT.10.13.20901

14

SHOULDER WEDGE DETAIL

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

SHOULDER WEDGE DETAIL (RESURFACING PROJECTS W/ NO WIDENING)



 $\mathbf{C} = 30 \text{ DEGREES}$

SHOULDER	R WEDGE	<u>. D</u>	<u>ETA</u> IL
(RESURFACING SHOULDER)	ADJACENT	ТО	RUTTED

SHOULDER WEDGE DETAILS			
SCALE	-NA-	\ <u>\\\</u>	REVISIONS
DATE	08/18		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA	State	

	PROJECT REFERENCE NO.	SHEET NO.
	CPT2025.10.13.10901 CPT2025.10.13.20901	INT TYP 1
MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES EXTEND LIMITS TO BACK OF SIGNAL LOOPS ON STATE MAINTAINED ROADS AS DIRECTED BY THE ENGINEER MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES	EXTEND LIMITS TO BACK OF RADIUS ON STATE MAINTAINED ROADS AS DIRECTED BY THE ENGINEER	

	ADDITIONAL INTERSECTIONS (NO	N-TYPICAL)
	Extend paving limits to back of rac or loop on the following intersection	
MAP*	STREET NAME	COMMENTS
MAP 2	SR 1703 CARPENTER RD	
MAP 2	SR 1702 BENTON EDWARDS RD	
MAP 2	SR 1700 FLINT RIDGE RD	TO PVMT JOINT
MAP 2	SR 1103 ROCKY RIVER RD	TO PVMT JOINT AT END OF ISLAND
MAP 3	SR 2135 WG MEDLIN RD	
MAP 5	SR 1763 BIVENS RD	
MAP 6	SR 1929 PHILADELPHIA CHURCH RD	
MAP 6	SR 1911 LENORD MORGAN RD	
MAP 7	SR 3507 POND BLUFF DR	
MAP 7	SR 3508 LITTLELEAF LN	
MAP 8	SR 3515 LANCASTER AVE	MILL/FILL TO PVMT JOINT IN INTERSECTION
MAP 8	SR 2139 GRIFFITH RD	MILL/FILL PVMT BETWEEN ISLAND AND SW
MAP 9	SR 1263 SHADY OAK LN	

TYPICAL DETAIL OF PROJECT LIMITS AT

SIGNALIZED Y LINES

TYPICAL DETAIL OF PROJECT LIMITS AT

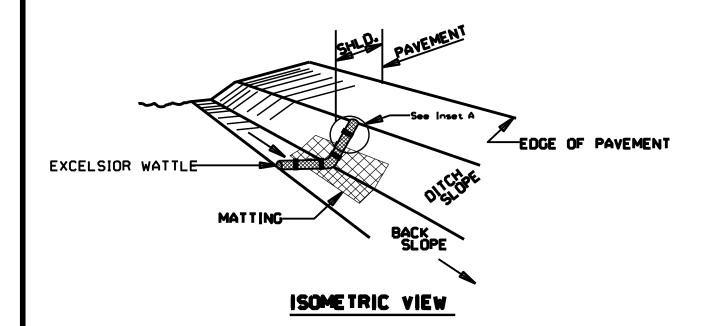
UNSIGNALIZED Y LINES

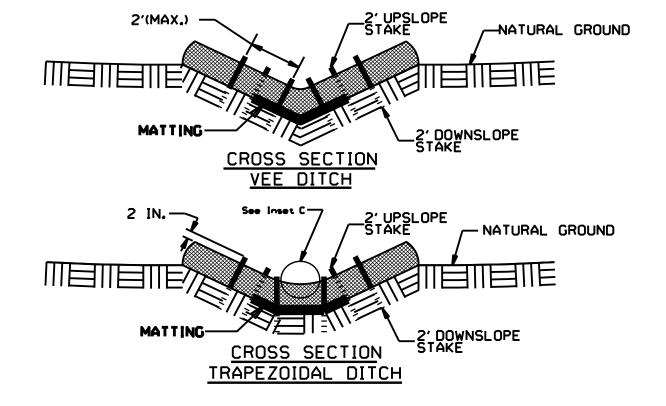
SIGNALIZED Y LINES

PROJECT REFERENCE NO. SHEET NO.

2025CPT.10.13.10901
2025CPT.10.13.20901

WATTLE WITH POLYACRYLAMIDE DETAIL





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.

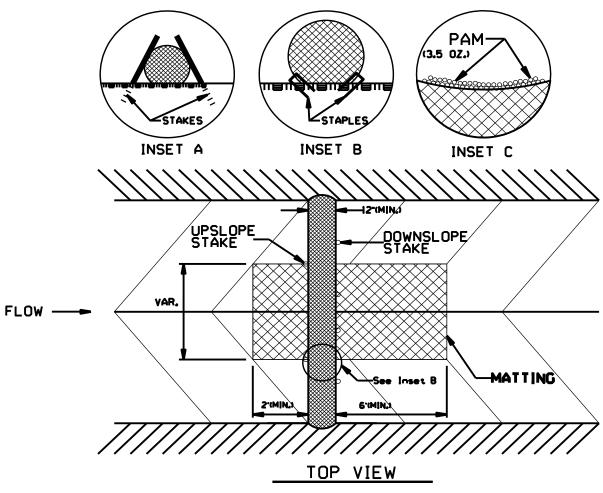
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12' IN LENGTH.

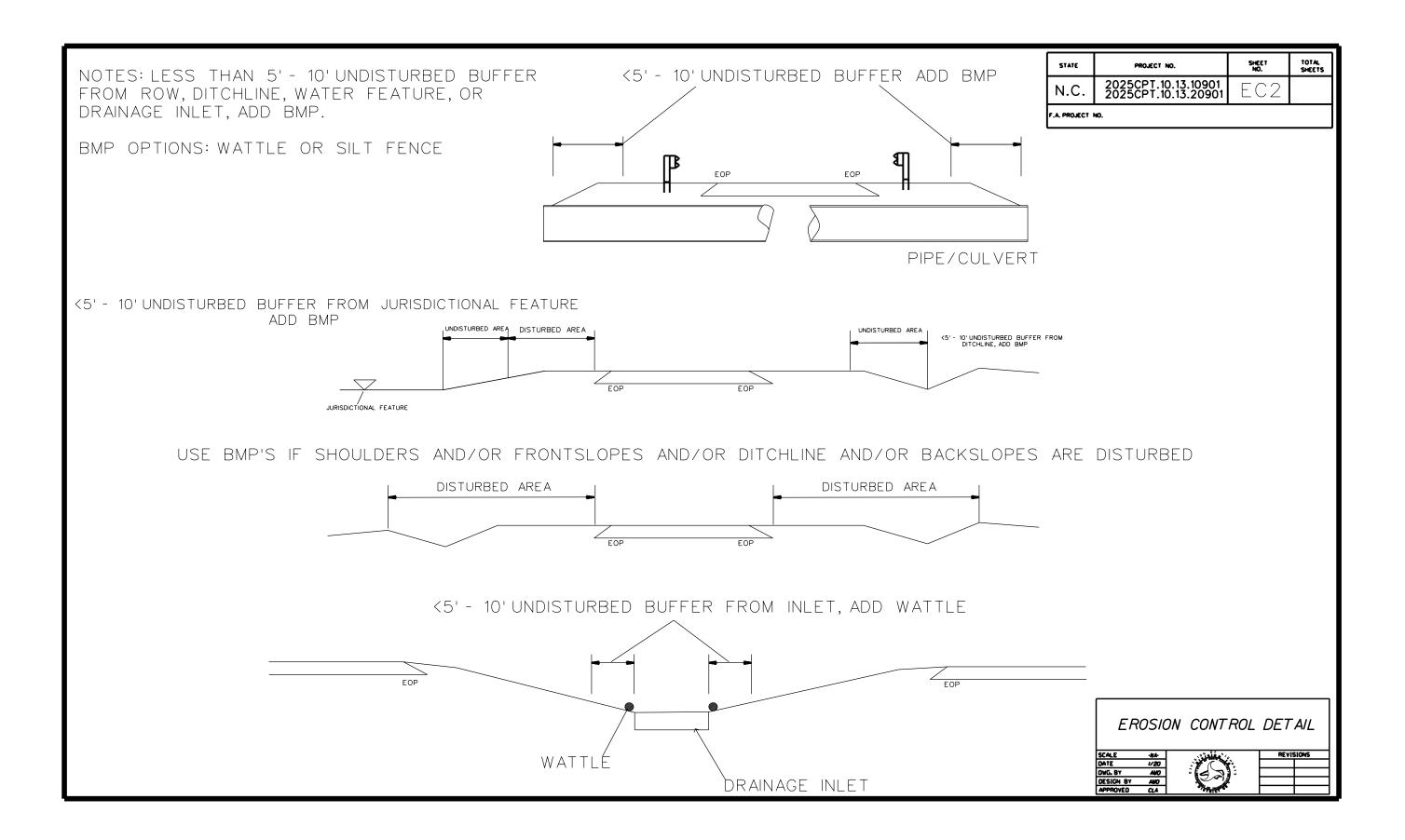
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

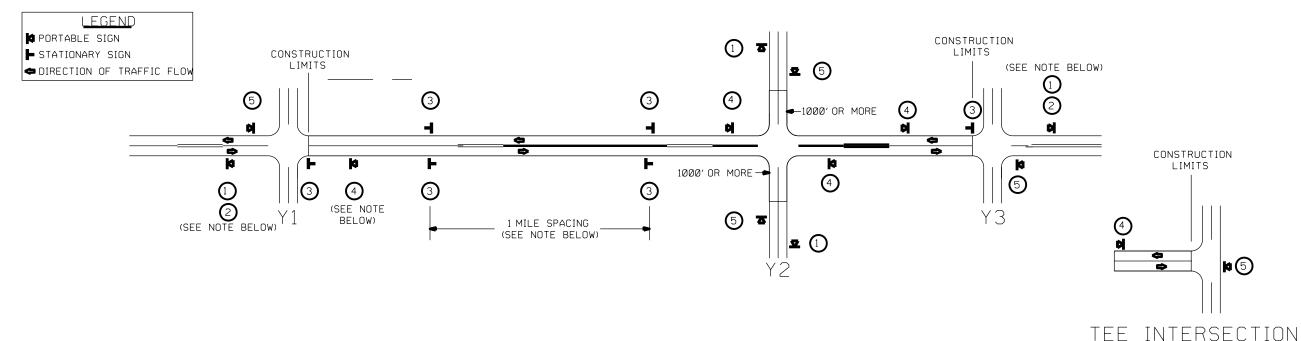
INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





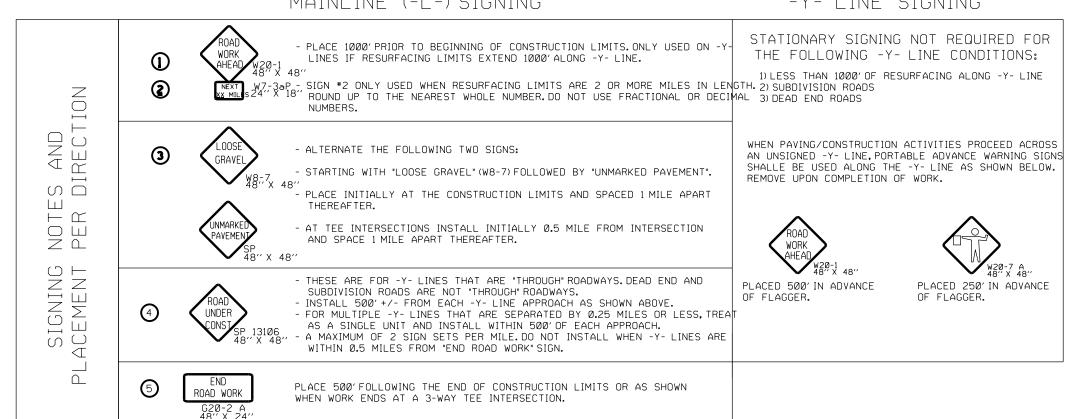


SIGNING FOR ASPHALT SURFACE TREATMENT



MAINLINE (-1 -) SIGNING

-Y- LINE SIGNING



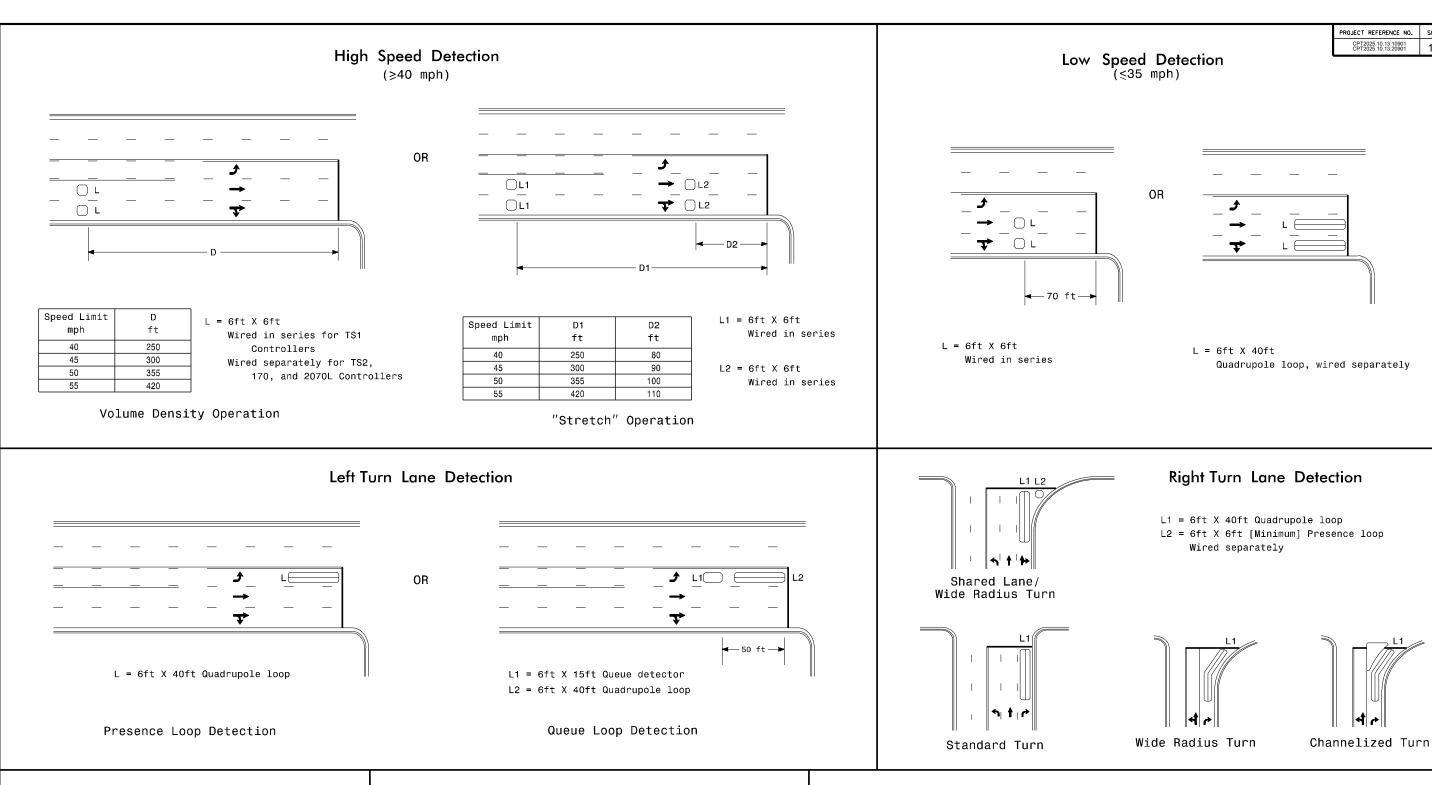


ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMEN

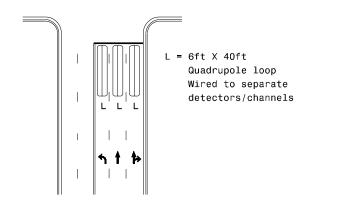
MAPS LESS THAN 2 MILES START OF CONTRACT WORK.

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.

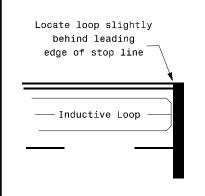
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE







Presence Loop Placement at Stop Lines



Loop may be located in advance of stop line under any of the following conditions:

- 1) stop line is greater than 15' from edge of intersecting roadway
- 2) loop detects a permissive or protected/permissive left turn
- 3) for an exclusive right turn lane

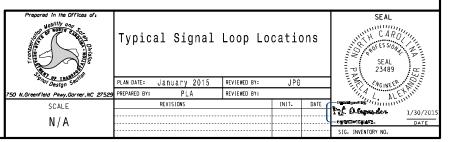
Recommended Number of Turns

Single 6' X 6' loop (when wired separately):

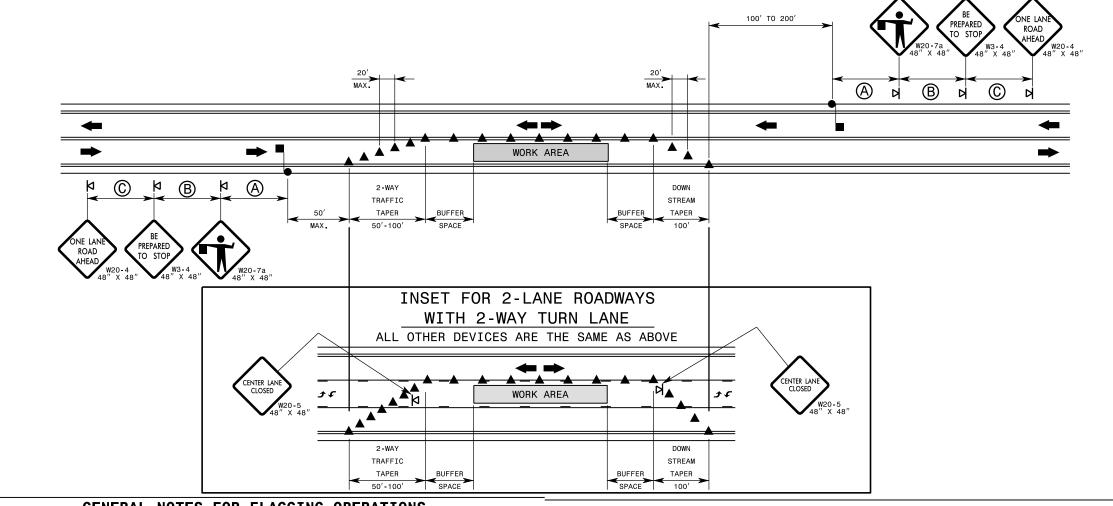
Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns 6' X 15' Loops: Lead-in < 150', use 2 turns

Lead-in > 150', use 3 turns



CPT2025.10.13.10901 CPT2025.10.13.20901



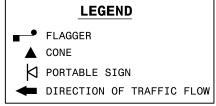
GENERAL NOTES FOR FLAGGING OPERATIONS

- 1- REFER TO RSD. 1101.11, SHEETS 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.
- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- FOR POSTED SPEED LIMITS BELOW 45 MPH, CHANNELIZING DEVICE SPACING SHALL BE 20 FEET IN THE TAPERS AND THE SHIFTS AND 40 FEET IN THE TANGENTS. FOR POSTED SPEED LIMITS GREATER THAN OR EQUAL TO 45 MPH, CHANNELIZING DEVICE SPACING SHALL BE 40 FEET IN THE TAPERS AND THE SHIFTS AND 80 FEET IN THE TANGENTS.
- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO RSD. 1101.11, SHEET 2).
- 6- DO NOT STOP ALL DIRECTIONS OF TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME.
- DRUMS OR SKINNY DRUMS MAY BE USED IN LIEU OF CONES. FOR SKINNY DRUM REQUIREMENTS. REFER TO RSD. 1180.01
- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7A) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER. FOR SIGNALIZED INTERSECTIONS PLACE SIGNALS IN THE FLASH MODE AND USE LAW ENFORCEMENT.
- 9- REFER TO THE CURRENT MUTCD FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

- IF VEHICLE QUEUES WILL REACH WITHIN 100' OF EITHER SIDE OF ACTIVE RAILROAD TRACKS, PROVIDE A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER TO PREVENT VEHICLES FROM STOPPING WITHIN THE GRADE CROSSING. PROVIDE OFFICER OR FLAGGER EVEN IF AUTOMATIC WARNING MEASURES ALREADY EXIST.
- THIS DETAIL IS APPLICABLE FOR OPERATIONS IN PLACE FOR 72 HOURS OR LESS. FOI DURATION OPERATIONS, SIGNING AND PAVEMENT MARKINGS MAY NEED TO BE ALTERED. FOR LONGER

GENERAL NOTES FOR PILOT CAR OPERATIONS

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 2- IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA, AND AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.
- 3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
- 5- UNLESS APPROVED BY THE ENGINEER, DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT



SED 0 FOR S Ш ~ OSU DRAWING S OADWAY Z STANDARD $\mathbf{\Xi}$ AR TEMPOR, ROADWAY α ANE α

NORTH CAROLINA OF TRANSPORTATION ISION OF HIGHWAYS RALEIGH, N.C.

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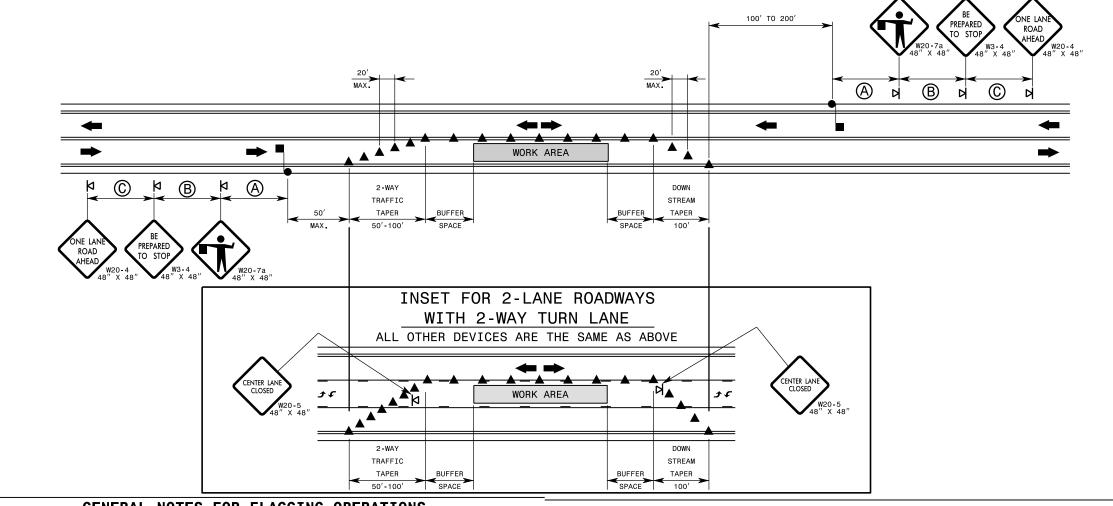
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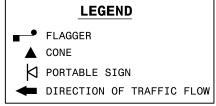
GENERAL NOTES FOR FLAGGING OPERATIONS

- 1- REFER TO RSD. 1101.11, SHEETS 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.
- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- FOR POSTED SPEED LIMITS BELOW 45 MPH, CHANNELIZING DEVICE SPACING SHALL BE 20 FEET IN THE TAPERS AND THE SHIFTS AND 40 FEET IN THE TANGENTS. FOR POSTED SPEED LIMITS GREATER THAN OR EQUAL TO 45 MPH, CHANNELIZING DEVICE SPACING SHALL BE 40 FEET IN THE TAPERS AND THE SHIFTS AND 80 FEET IN THE TANGENTS.
- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO RSD. 1101.11, SHEET 2).
- 6- DO NOT STOP ALL DIRECTIONS OF TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME.
- DRUMS OR SKINNY DRUMS MAY BE USED IN LIEU OF CONES. FOR SKINNY DRUM REQUIREMENTS. REFER TO RSD. 1180.01
- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7A) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER. FOR SIGNALIZED INTERSECTIONS PLACE SIGNALS IN THE FLASH MODE AND USE LAW ENFORCEMENT.
- 9- REFER TO THE CURRENT MUTCD FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

- IF VEHICLE QUEUES WILL REACH WITHIN 100' OF EITHER SIDE OF ACTIVE RAILROAD TRACKS, PROVIDE A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER TO PREVENT VEHICLES FROM STOPPING WITHIN THE GRADE CROSSING. PROVIDE OFFICER OR FLAGGER EVEN IF AUTOMATIC WARNING MEASURES ALREADY EXIST.
- THIS DETAIL IS APPLICABLE FOR OPERATIONS IN PLACE FOR 72 HOURS OR LESS. FOI DURATION OPERATIONS, SIGNING AND PAVEMENT MARKINGS MAY NEED TO BE ALTERED. FOR LONGER

GENERAL NOTES FOR PILOT CAR OPERATIONS

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 2- IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA, AND AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.
- 3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
- 5- UNLESS APPROVED BY THE ENGINEER, DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT



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PROJECT NO. SHEET NO. TOTAL NO.

2026CPT. 10. 13. 10901
2025. CPT. 10. 13. 20901

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SUMMARY OF QUANTITIES

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										1220000000-E	1245000000-E	1260000000-E	123100000 B	1330000000-E	1519000000-E	1520000000-E	1575000000-E	1704000000-E	1775000000-E	1838000000-E	1838500000-N	2605000000-N		2830000000-N			6071002000-E		
PROJEC	T NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO LANES	LANE FINAL	WARM MIX L	ENGTH WIDTH BEGIN MP END M	INCIDENTAL	SHOULDER		1 /6" MILLING		SURFACE	LEVELING	ASPHALT	PATCHING	ASPHALT		VACUUM TRUCK		6" DRIVEWAYS		ADJ. OF METER		FLOCCULANT	WATTLE	INDUCTIVE
							TYPE SURFACE	ASPHALT		STONE BASE	RECONSTRUCTION			MILLING	COURSE, S9.5B	COURSE, S9.5B	BINDER FOR	EXISTING	SURFACE	ASPHALT		RAMPS		MANHOLES	OR VALVE BOX	SILT FENCE		, ,	LOOP
							TESTING	REQUIRED				BORROW					PLANT MIX		TREATMENT, MATCOAT, #78M	SURFACE TREATMENT								, ,	1
							KEGUTKED	'											MATCUAT, #78M	TREATMENT								, ,	1
								⊢	MI PT	TONS	SMI	TON	m	SV	TONS	TONS	TONS	TONS	31UNB	GAL	WX	RA	du	FA.	BA	LF	I.R	I.F	I.F
		_						_	MI FI	TUNS	SMI	IUN	51	51	TUNS	IUNS	1000	IUNS	51	UAL	WA.	EA	31	EA .	- BA	<u> </u>	100		
				NC 740	FROM STANLY COUNTY LINE TO ANSON COUNTY LINE	·																						, ,	1
2025CPT. 10	13 10001	Union	9	ROUTE ID 30000742090	MP 2.6 TO MP 0.0	1 2	2WII NO	NO.	2.6 24 0 2.6	150	5, 20	791		800	3, 452	650	323	1, 170								300	1	390	1
2023CF1. 10	. 13, 10501		TOTAL FOR MAI		ar 2.0 10 ar 0.0	1 2	200 100		2.6	150	5. 20	721		800	3, 452	650	323	1, 170								390 390	1	390	$\overline{}$
				5CPT. 10. 13. 10901	+			_	2.6	150	5. 20	721		800	3,452	650	323	1,170								390	1 1	390	\vdash
		IOIAL FO	11105 110. 202	1001 1. 10. 10. 10001					2.0	100	0.20	144			0, 202	000	020	1,110								000	-		
				SR-2136 MACEDONIA CHURCH RD	FROM NC 207 TO SR 2115 STACK RD																								
2025, CPT, 10	. 13. 20901	Union	3	ROUTE ID 40002136090	MP 1.1 TO MP 0.01	1 2	2WII NO	NO.	1.09 18 0.01 1.1	50	2, 18	302		341	1. 104	275	113	495								163		163	1
			TOTAL FOR MAI	P NO. 3					1.09	50	2. 18	302		341	1, 104	275	113	495								163 163		163	
					FROM SR 1117 S PROVIDENCE RD																								
				SR-1121 HARKEY RD	TO SR 1137 S POTTERS RD																							, ,	1
2025, CPT, 10	. 13. 20901	Union	4	ROUTE ID 40001121090	MP 0.00 TO MP 2.32	1 2	2WU NO	NO	2.32 20 0 2.32	125	4. 54	629		333	2,418	1,022	273	1,022								340 340	1	340	1
			TOTAL FOR MAI	P NO. 4					2. 32	125	4. 54	629		333	2,418	1,022	273	1,022								340	1	340	
					FROM TREEWAY DR TO SR 1786																							,	
				SR-1751 WALKUP AVE/ MONROE-ANSONVILLE RD	BOBWHITE CIR																							, ,	1
2025. CPT. 10	. 13. 20901	Union	5	ROUTE ID 40001751090	MP 2.38 TO MP 3.30	1, 2, 3 2	2WU NO		0.92 20 2.38 3.3	10	1.82	252	1,254	247	1,014	410	126 126	700								137 137		137 137	
			TOTAL FOR MAI	P NO. 5					0. 92	10	1.82	252	1,254	247	1,014	410	126	700								137		137	
					FROM SR 1911 LEONARD MORGAN RD TO	0																						, ,	1
				SR-1003 WHITE STORE RD	SR 1005 LANDSFORD RD																							, ,	1
2025, CPT, 10	. 13. 20901	Union	6	ROUTE ID 40001003090	MP 3.47 TO MP 1.02	1 2	2WU NO	NO NO	2. 45 20 1. 02 3. 47	140	4. 90	679		556	2, 706 2, 706	858 858	302	1,470								233 233	1	233	
		_	TOTAL FOR MAI	P NO. 6					2. 45	140	4. 90	679		556	2,706	868	302	1,470								233	1 1	233	
					FROM SR 1135 OLD HWY RD																							, ,	1
2025, CPT, 10	10 00001			SR-1134 LATHAN RD	TO NC 522 MP 0.55 TO MP 1.28		our: No		0.73 20 0.55 1.28		1. 46			015	1.603	183	140	500								110		110	1
2025, CP1, 10	. 13. 20901	Union	TOTAL FOR MAI	ROUTE ID 40001134090	MP 0.55 10 MP 1.28	1 2	2WU NO		0. 73 20 0. 55 1. 28 0. 78	20	1. 46	202		317	1,603	183	140	500 500								110		110	
		T	TOTAL FOR MA	r no. 1	FROM SR 3515 S CHARLOTTE AVE				0.73	20	1, 40	202		311	1,000	100	140	500								110			
				SR-3515 LANCASTER AVE	TO WEST ST																							, ,	1
2025. CPT. 10	13 20001	Union	8	ROUTE ID 40003515090	MP 2.07 TO MP 1.58	4 9	9WII NO	NO.	0 49 20 1 58 2 07		0.05	7	9, 105		907		78	400				1		11	19	74		7.4	175
2020, Cl 1, 10	7. 13. 20301		TOTAL FOR MAI	P NO R	EL 2.01 10 EL 1.00	1 2	240 100		0.49		0.05	7	9, 105		907		78	400				1		11	12	74		74	175
		T	101111111111111111111111111111111111111	1 10. 0	FROM SR 1117 S PROVIDENCE RD PAS	т			0. 20		0.00	T .	0,100					100				•				•••			
				SR-1113 / DAVIS RD	SR 1263 SHADY OAK LN	·																						, ,	1
2025. CPT. 10	. 13, 20901	Union	9	ROUTE ID # 40001113090	MP 0.01 TO MP 1.43	5 2	2WU NO	NO NO	1, 42 19, 5 0, 01 1, 43	115	2, 84	524		685	1,961	497	194	710	15, 878	3,970	1, 00		126			213		213	1
			TOTAL FOR MAI						1.42	115	2.84	524		685	1,961	497	194	710	15, 878		1.00		126			213		213	
		TOTAL FOR	PROJ NO. 2025	i. CPT. 10. 13. 20901					1. 42 9. 42	115 460	17. 79	2, 595	10, 359	2,479	11,713	3, 245	1, 226	5, 297	15, 878	3,970	1.00	1	126	11	12	213 1, 270	2	1, 270	175
			GRAND TO	TAL				1	12. 02	610	22. 99	3,316	10, 359	3, 279	15, 165	3,895	1,549	6, 467	15,878	3,970	1.00	1	126	11	12	1,660	3	1,660	175

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.10.13.10901	SOO 2	
2025.CPT.10.13.20901	30Q 2	

THERMOPLASTIC AND PAINT QUANTITIES

											441300000-E	4457000000-N	46850	00000-E	4695000000-E	4709000000-E		4720000000	I-E	4725000000-E	48100	00000-E	4905100000-N
PROJECT NO	COUNT	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	S LANE LENGT TYPE	H WIDTH	BEGIN M	P END MP	WORK ZONE ADVANCE/GE NERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	THERMOPLAST IC PAVEMENT MARKING LINES (24", 90 MILS)	THERMO MSG STOP 90 M	THERMO MS AHEAD 90 N	SG THERMO MSC M SCHOOL 90 M		4" YELLOW PAINT	4" WHITE PAINT	NON-CAST IRON SNOWPLOWA BLE PAVEMENT MARKER
								-			er.	10	15	LF	15	15	ГА	ΓΛ.	FA	FA	15	15	
2025CPT.10.13.10901	Union	2	NC-742 ROUTE ID 30000742090	FROM STANLY COUNTY LINE TO ANSON COUNTY LINE MP 2.6 TO MP 0.0	1	2	2WU 2.6			2.6	SF 291	0.20	LF 27,456	25,330	LF	LF	EA	EA	EA	EA	LF	LF	EA 173
2023011.10.13.10301	Official		R MAP NO. 2	111 2.0 10 111 0.0			2.6	_	0	2.0	291	0.20	27,456	25,330									173
_							2.6				291	0.20	27,456	25,330									173
ī	TOTAL FO	R PROJ NO	. 2025CPT.10.13.10901											,786				1	L			1	
2025.CPT.10.13.20901	Union	3	SR-2136 MACEDONIA CHURCH RD ROUTE ID 40002136090	FROM NC 207 TO SR 2115 STACK RD MP 1.1 TO MP 0.01	1	2	2WU 1.09	18	0.01	1.1	122	0.10					4	5			20,800	23,020	
		TOTAL FO	R MAP NO. 3				1.09				122	0.10					4	5			20,800	23,020	
2025.CPT.10.13.20901	Union	4	SR-1121 HARKEY RD ROUTE ID 40001121090	FROM SR 1117 S PROVIDENCE RD TO SR 1137 S POTTERS RD MP 0.00 TO MP 2.32	1	2	2WU 2.32	20	0	2.32	254	0.20									47,968	47,968	
		TOTAL FO	R MAP NO. 4				2.32				254	0.20									47,968	47,968	
2025.CPT.10.13.20901	Union	5	SR-1751 WALKUP AVE/ MONROE-ANSONVILLE RD ROUTE ID 40001751090	FROM TREEWAY DR TO SR 1786 BOBWHITE CIR MP 2.38 TO MP 3.30	1,2,3	2	2WU 0.92	20	2.38	3.3	102	0.10	9,610	9,610									
		TOTAL FO	R MAP NO. 5				0.92	_			102	0.10	9,610	9,610									
2025.CPT.10.13.20901	Union	6	SR-1003 WHITE STORE RD ROUTE ID 40001003090	FROM SR 1911 LEONARD MORGAN RD TO SR 1005 LANDSFORD RD MP 3.47 TO MP 1.02	1	2	2WU 2.45	20	1.02	3.47	274	0.20									46,602	51,692	
	•	TOTAL FO	R MAP NO. 6				2.45				274	0.20									46,602	51,692	
2025.CPT.10.13.20901	Union	7	SR-1134 LATHAN RD ROUTE ID 40001134090	FROM SR 1135 OLD HWY RD TO NC 522 MP 0.55 TO MP 1.28	1	2	2WU 0.73		0.55	1.28	82	0.05									32,736	32,736	
		IOTAL FO	R MAP NO. 7 SR-3515 LANCASTER AVE	FROM SR 3515 S CHARLOTTE AVE TO WEST ST			0.73				82	0.05									32,736	32,736	
2025.CPT.10.13.20901	Union	8	ROUTE ID 40003515090	MP 2.07 TO MP 1.58	4	2	2WU 0.49		1.58	2.07	55	0.05	943	5,150	396	254			12	1			
		TOTAL FO	R MAP NO. 8	FROM SR 1117 S PROVIDENCE RD		1	0.49				55	0.05	943	5,150	396	254			12	1			
2025.CPT.10.13.20901	Union	9	SR-1113 / DAVIS RD <u>ROUTE ID # 40001113090</u>	PAST SR 1263 SHADY OAK LN MP 0.01 TO MP 1.43	5	2	2WU 1.42	_	0.01	1.43	159	0.10	14,996	13,445									
		TOTAL FO	R MAP NO. 9				1.42				159	0.100	14,996	13,445		ļ							
Т	OTAL FOR	R PROJ NO.	2025.CPT.10.13.20901				9.42				1,048	0.800	25,549 53	28,205 ,754	396	254	4	5 21	12	1	148,106 303	155,416 3,522	_
				1			12.02		1		1,339	1.000	53,005	53,535	396	254	4	5	12	1	148,106	155,416	173
		GRAN	ID TOTAL			1	12.02				1,000	1.000		6,540	330	207	7	21	12	-		3,522	1,5