

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.07.01.10681 2025CPT.07.01.20681	2



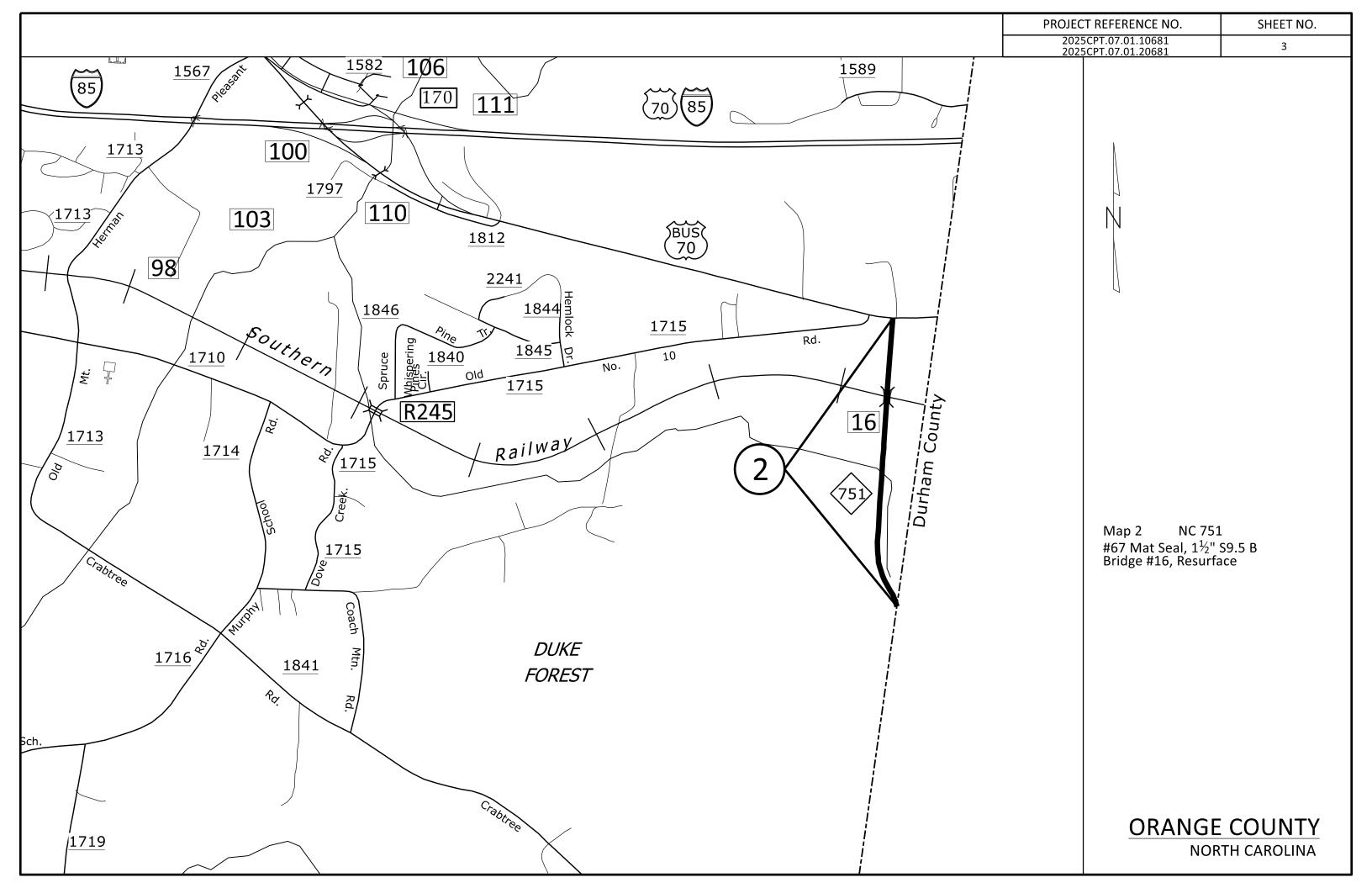


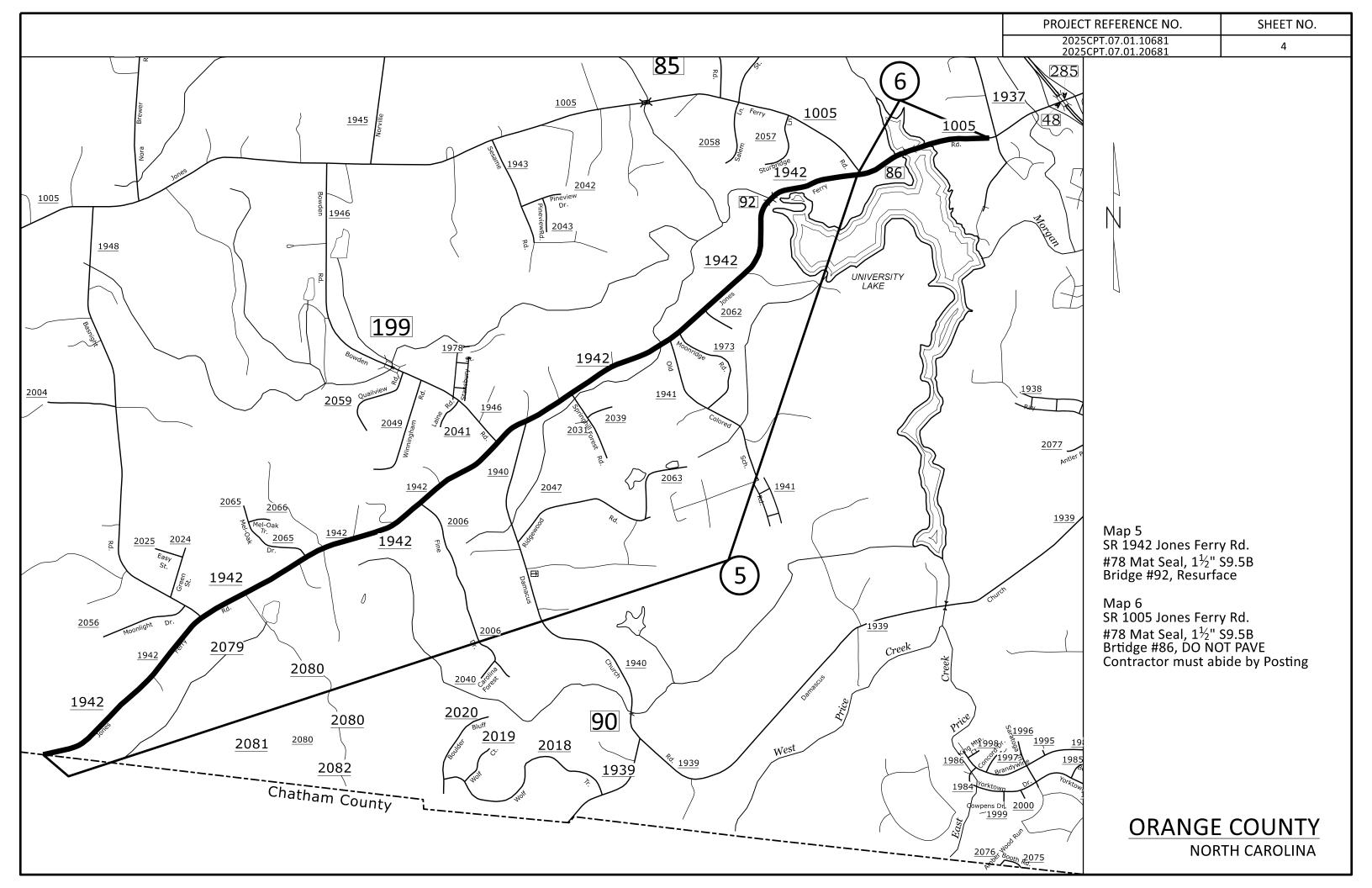
Map 3 NC 54 / US 15-501 Northbound RAMPS at NC 54 - Raleigh Road Mill $1\frac{1}{2}$ " Pave back $1\frac{1}{2}$ " S9.5 C Bridge# 281, DO NOT PAVE.

Map 4 NC 54 / US 15-501 Southbound RAMPS at NC 54 - Raleigh Road Mill $1\frac{1}{2}$ " Pave back $1\frac{1}{2}$ " S9.5 C Bridge # 45, DO NOT PAVE.

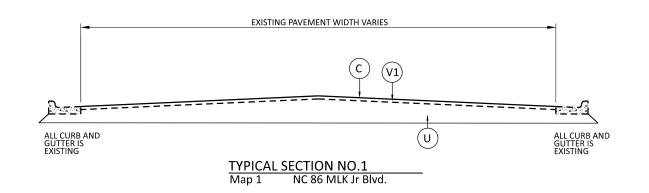
ORANGE COUNTY NORTH CAROLINA

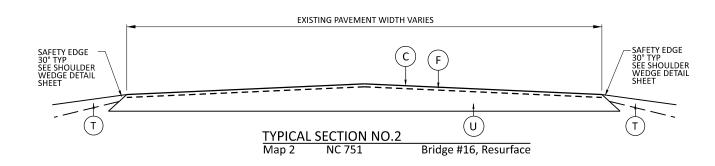


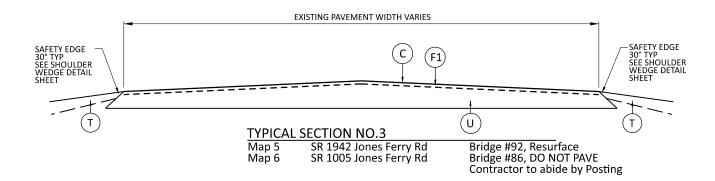


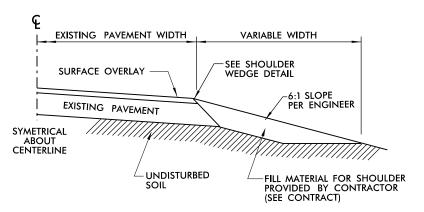


PROJECT REFERENCE NO.	SHEET NO.
2025CPT.07.01.10681, 2025CPT. 07.01.20681	5

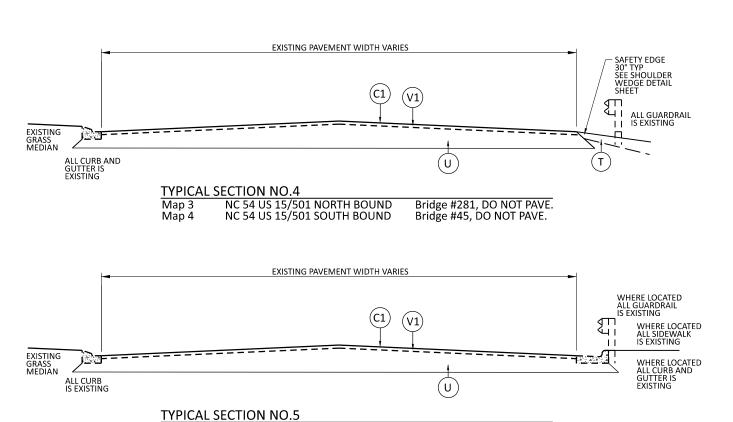


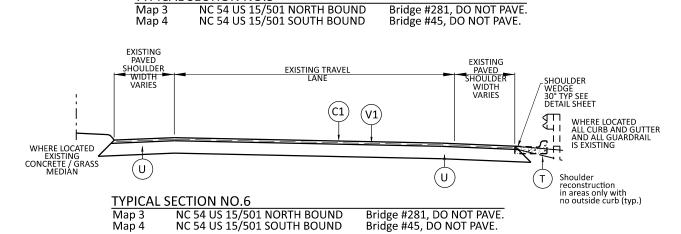




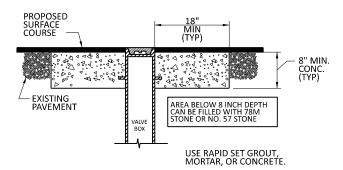


SHOULDER RECONSTRUCTION * PLACE ASB OR BORROW AS DIRECTED BY ENGINEER

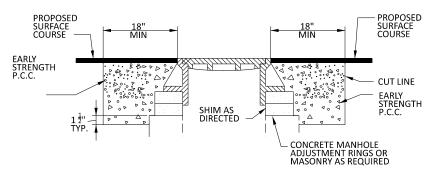




	PAVEMENT SCHEDULE
С	PROP. APPROX. $1\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5.B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C1	PROP. APPROX. 1^{1}_{2} " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5.C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
F	AST MAT COAT, #67
F1	AST MAT COAT, #78M
U	EXISTING PAVEMENT
V1	MILL ASPHALT PAVEMENT, 1½" DEPTH
Т	SHOULDER RECONSTRUCTION



STANDARD CONCRETE ENCASEMENT FOR **VALVE CASTINGS IN PAVEMENT**



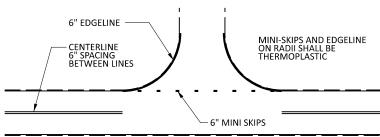
- NOTES:

 1. MORTAR SHALL BE MIXED TO NCDOT SPECIFICATIONS.

 2. ALL FAULTY EXISTING BRICKWORK TO BE REMOVED AND REPLACED WITH NEW BRICK MASONRY.

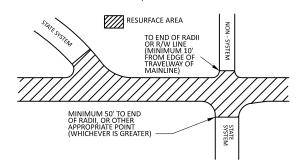
 3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT
- ACAVATION FOR THE ADJOSTMENT STALL BE SHEER COTON ALL SIDES.
 RAPID SET GROUT, MORTAR, OR CONCRETE SHALL BE USED CLASS B CONCRETE MAY BE USED WHEN ADJUSTMENTS ARE NOT IN THE TRAVEL LANE.

STANDARD CONCRETE ENCASEMENT FOR MANHOLE CASTINGS IN PAVEMENT

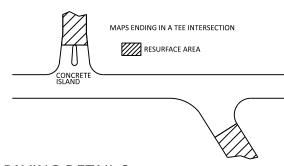


NOTE: MINI SKIPS SHALL BE PLACED ON A 8' CYCLE, CONTAINING A 6' AND 2' SKIP. THE WIDTH OF THE SKIP SHALL BE 6".

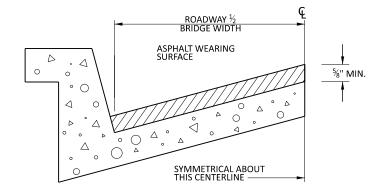
TO BE USED AT ALL NON-SIGNALIZED INTERSECTIONS NOTE: NON-SYSTEM (CITY STREET, PRIVATE DRIVE, SCHOOL BUS DRIVE)



PAVING DETAIL 1 MAIN LINE IS BEING RESURFACED



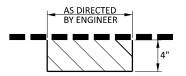
PAVING DETAIL 2 MAIN LINE NOT BEING RESURFACED



BRIDGE HALF TYPICAL SECTION

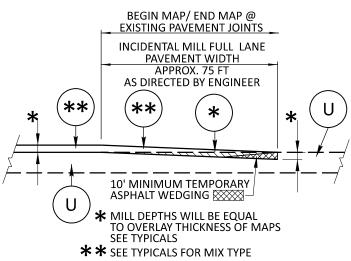
FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN. THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN %" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.07.01.10681, 2025CPT. 07.01.20681	6



MILL FILL WITH ACBC, ACIC, ACSC, AS DIRECTED BY THE ENGINEER.

PATCHING EXISTING **PAVEMENT DETAIL**



INCIDENTAL MILLING AT TIE-IN DETAIL

	PAVEMENT SCHEDULE
С	PROP. APPROX. 1^{1}_{2} " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5.B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C1	PROP. APPROX. 1^{1}_{2} " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5.C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
F	AST MAT COAT, #67
F1	AST MAT COAT, #78M
U	EXISTING PAVEMENT
V1	MILL ASPHALT PAVEMENT, 1½" DEPTH
Т	SHOULDER RECONSTRUCTION

DI DI STATE OF
NORTH CAROLINA
I. OF TRANSPORTATION
VISION OF HIGHWAYS
RALEIGH, N.C.

Ш CUT ENGL HSI H

Ш

DUC **TANDARD** Ш DRAW ING EC FOR

(FOR 9 .ING) 9 0 **P**

NOTES

- -OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
- -MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
- -WIRE LOOPS CONNECTED TO THE SAME DETECTOR IN SERIES.
- -LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS.
- -USE A SERIES OF ONE INCH PIECES OF BACKER ROD SPACED ONE FOOT APART ALONG THE ENTIRE LENGTH OF THE FEEDER SLOT AND LOOP SAW SLOT.
- -CONSULT LOOP SEALANT MANUFACTURER TO DETERMINE CURING TIME REQUIRED PRIOR TO MILLING.
- -REFER TO STANDARD DRAWING 1725.01 SHEETS 2 AND 3 FOR ADDITIONAL REQUIREMENTS.

SAW SLOT DEPTH CHART ASSUMING 2" MILLING DEPTH

DEPTH	MAX NO. OF WIRE LAYERS									
(IN)	2	2 3		5	6					
SAW SLOT DEPTH	4.0	4.5	5.0	5.0	5.0					
MINIMUM TOTAL ASPHALT DEPTH REQUIRED	5.0	5.5	6.0	6.0	6.0					

LOOP WIRE TWISTING METHOD

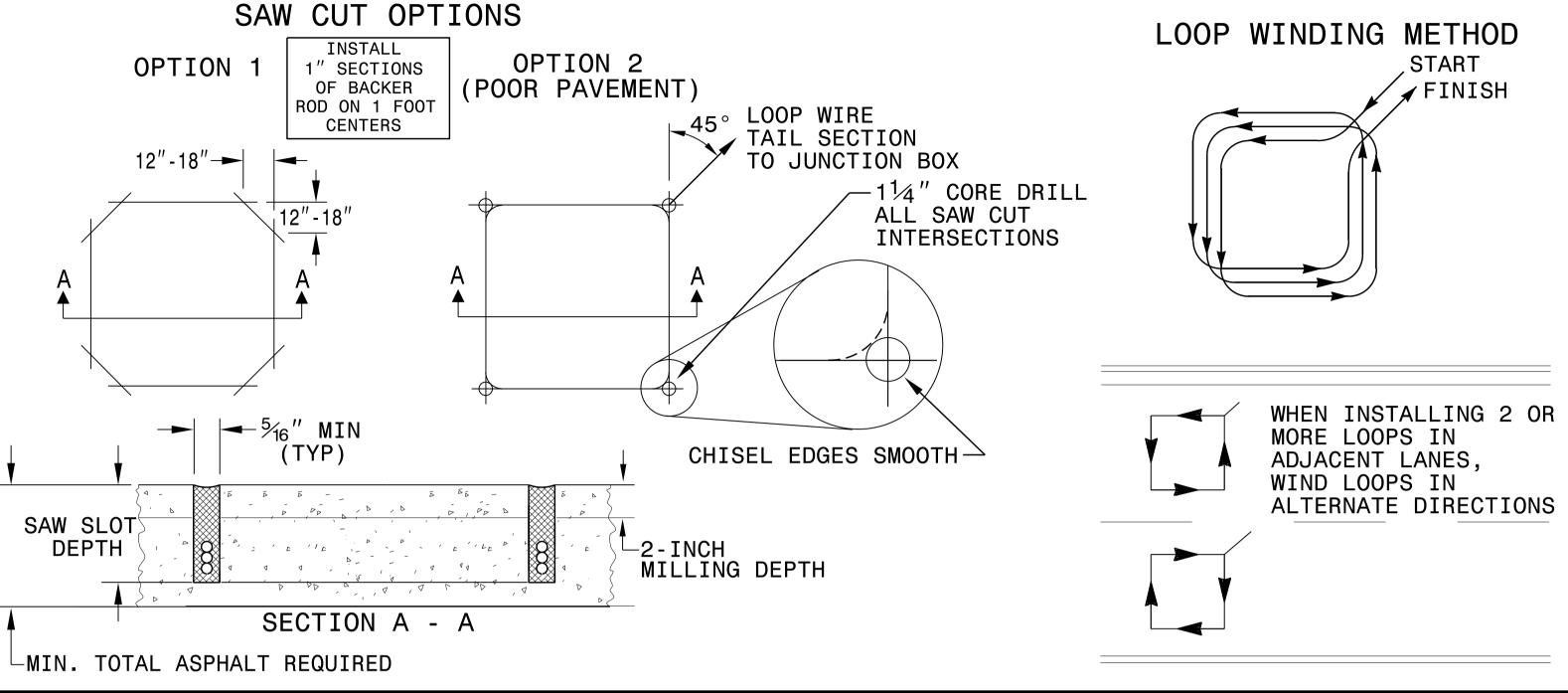
INCORRECT WAY TO TWIST WIRE



CORRECT WAY TO TWIST WIRE



CONVENTIONAL 4-SIDED LOOP



OF BACKER ROD ON 1 FOOT

CENTERS

TO JUNCTION BOX

11⁄4″ CORE DRILL ALL SAW CUT

INTERSECTIONS

LOOP WIRE TAIL SECTION

SAW CUT OPTIONS

-5√16" MIN (TYP)

└MIN. TOTAL ASPHALT REQUIRED

SECTION A - A

OPTION 2

(POOR PAVEMENT)

-2 - INCH

MILLING DEPTH

OPTION 1

SAW SLOT DEPTH



PROJECT REFERENCE

2025CPT.07.01.10681

2025CPT.07.01.20681

SHEET No.7

00

ING) FOR DRAWING Ш́Н DE IOR STANDARD Ш **_ LLATION** 200 IND INSTA ISH ENGL FOR DEE

I. REMOVED TWISTING NOTES FROM TAIL SECT. TO JUNCTION BOX. 2/26/08 MWH 2. REVISED SECTION A - A DETAILS. 6/29/I5 JTP

SEAL 016286 Milton I. Dean 7/1/2015

SHEET

OF

QUADRUPOLE LOOP INSTALL LOOP WINDING METHOD 1" SECTIONS

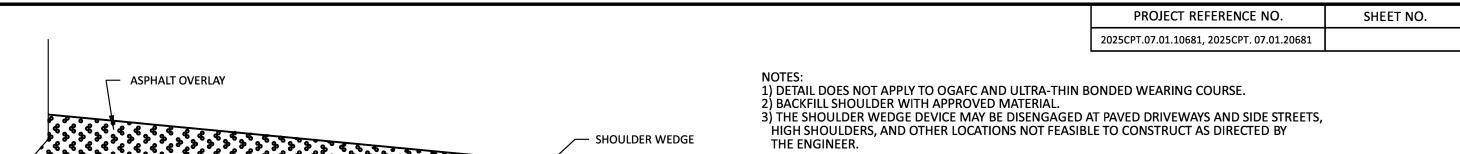
-CHISEL EDGES SMOOTH

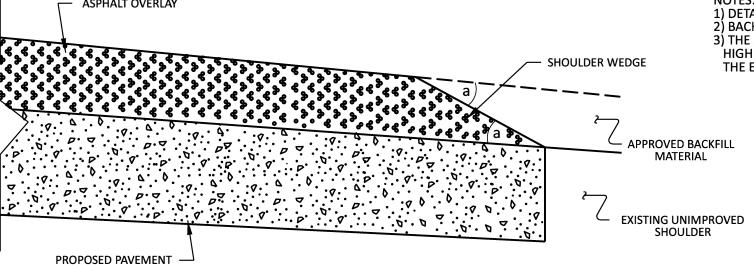
FINISH

REVISIONS

Prepared in the Offices of: 750 N.Greenfield Pkwy.Garner.NC 27529

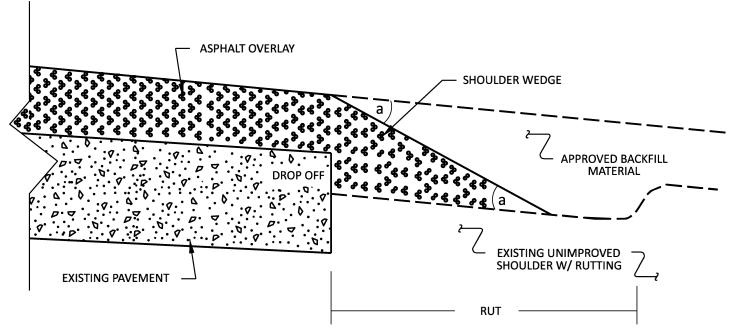
SHEET 1 OF 1

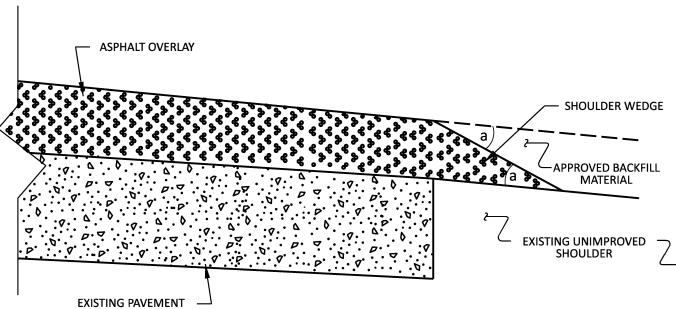




SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)





SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

a - SHOULDER WEDGE ANGLE = 30°

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

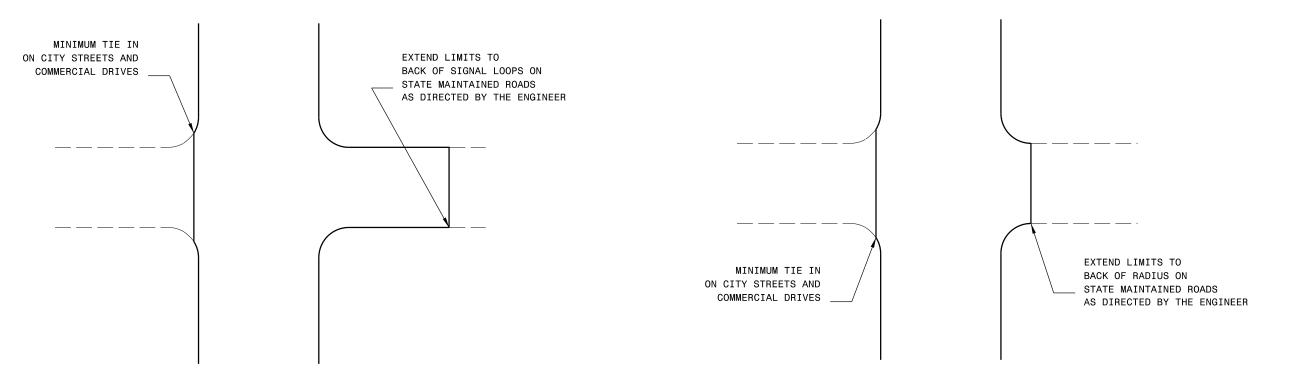
SHOULDER WEDGE DETAILS

ORIGINAL BY:	T.SPE_LL	DATE:	7-19-11	
MODIFIED BY:		DATE:	10/16/12	
CHECKED BY:		DATE:		
FILE SPEC.:	s:usr/details/stand/sl	houlderwedgedet	ail.dgn	

(Resurfacing Adjacent to Rutted Shoulder)

SHOULDER WEDGE DETAIL

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.07.01.10681, 2025CPT. 07.01.20681	9



TYPICAL DETAIL OF PROJECT LIMITS AT

SIGNALIZED Y LINES

TYPICAL	DETAIL	OF PROJ	JECT L	_IMITS	ΑT
	UNSIGNA	ALIZED Y	LINES	5	

ADDITIONAL INTERSECTIONS (NON-TYPICAL)												
	Extend paving limits to back of radius or loop on the following intersections:											
MAP#	STREET NAME	COMMENTS										

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.07.01.10681,	10	
2025CPT.07.01.20681		

SUMMARY OF QUANTITIES

						0106000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E	133000000-E	1519000000-E	152300000-E	157500000-E	1704000000-E	177500000-E	177550000-E	1838000000-E	N-00000000-N	2845000000-N	525500000-N	6084000000-E	7990000000-E
PROJECT NO	COUNTY MAP NO	ROUTE	DESCRIPTION TYP	PNO LENGTI		BORROW EXCAVATION	INCIDENTAL STONE	SHOULDER	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, ***"DEPTH (1 112")	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	ASPHALT BINDER For Plant Mix	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MAT COAT, #78M STONE	ASPHALT SURFACE TREATMENT, MAT COAT, #67 STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	ADJ. OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	PORTABLE LIGHTING	SEED AND MULCH	INDUCTIVE LOOP SAW CUT (DEEP CUT)
	 '	 -		MI		CY	TONS	SMI	TON	SY	SY	TONS	TONS	TON	TONS	SY	SY	GAL	EA	EA	LS	AC	LF
·	1 '		FROM SR 1780 - ESTES DR TO SR 1010	.	varies					·	1]	1
2025CPT.07.01.10681		NC-86 MLK JR BLVD	- E FRANKLIN ST 1		3 62-70	.——				57,227	3,134	5,478	<u> </u> '	356					35	85			8,500
ı <u> </u>	TOTAL FOR MAI	'NO. 1	FROM 10 70 TO DURINAM COUNTY	1.53				+		57,227	3,134	5,478	<u> </u>	356					35	85		 	8,500
0005 ODT 07 04 40004		NO 354	FROM US 70 TO DURHAM COUNTY		varies	40	00	1.00	0.7	'		201		[400		0.000	0.055				0.05	1 400
2025CPT.07.01.10681		NC-751	LINE 2	2 0.66		13	30	1.00	37	 '	575	801	 	57	103		8,830	3,355				0.05	400
,	TOTAL FOR MAI	⁷ NO. 2	FROM JOINT NEAR MORGAN CREEK	0.66	+	13	30	1.00	37	+ '	575	801	 '	57	103	1	8,830	3,355		1		0.05	400
,	1 '	l			ioo					'								l				1	1
	1 '		RD TO SR 1742 - EPHESUS CHURCH	0.54	varies 8 25-78			7.00	220	22.200	11 240		7.524					l	7	22		1	1 - 222
2025CP1.07.01.10681		NC 54/US 15-501 NORTHBOUND	RD 4,5			71	+	7.00	200	69,988	11,842	 	7,561	446					,	36		0.26	5,000
	TOTAL FOR MAR	'NO. 3	FROM CRITICAL EDUCATION OF THE POLICE	3.58	+	71		7.00	200	69,988	11,842	 	7,561	446					7	36	*	0.26	5,000
.	1 '	i	FROM SR 1742 - EPHESUS CHURCH							']	1
	1 '		RD TO JOINT NEAR MORGAN CREEK		varies			7.00		'	10.000		7.500	140								2.00	1
2025CPT.07.01.10681	_	NC 54/US 15-501 SOUTHBOUND	RD 4,5			71	+	7.00	201	68,403	13,828		7,598	448					1	6		0.26	5,000
	TOTAL FOR MAI		 	3.59		71		7.00	201	68,403	13,828	 	7,598	448		ļ			1	6		0.26	5,000
TOTAL	FOR PROJ NO. 2025	CPT.07.01.10681	<u> </u>	9.36	+	155	30	15.00	438	195,618	29,379	6,279	15,159	1,307	103		8,830	3,355	43	127	1	0.57	18,900
	 				+			+		 '	+	 	<u> </u>									 	
	[FROM SR 1005 OLD GREENSBORO RD	_			105	0.00		'		0.405		440	450	04.045		04.000				2.00	1 400
2025CPT.07.01.20681		SR-1942 / JONES FERRY RD	TO CHATHAM COUNTY 3	3 4.172		83	165	8.00	237	 '	213	6,195	<u> </u>	410	159	64,645		21,333		2		0.30	100
	TOTAL FOR MAP		FROM END OF LEFT TURN TAPER SW OF SR 1937 OLD FAYETTEVILLE RD TO RADIUS OF SR 1942 JONES FERRY RD WEST OF SR 1005 OLD GREENSBORO	4.172		83	165	8.00	237		213	6,195		410	159	64,645		21,333		2		0.30	100
2025CPT.07.01.20681	Orange 6	SR-1005 / JONES FERRY RD	RD 3	3 0.52	2 26	11		1.00	30	'	646	798		58	137	7,792		2,571				0.04	100
	TOTAL FOR MAI			0.52		11	†	1.00	30	†	646	798	†	58	137	7,792		2,571				0.04	100
TOTAL	FOR PROJ NO. 2025	CPT.07.01.20681		4.692		94	165	9.00	267	†	859	6,993	†	468	296	72,437		23,904		2		0.34	200
				$\overline{}$	+		†	1		1		1											
	GRAND TOT	íAL .		14.052	,2	249	195	24.00	705	195,618	30,238	13,272	15,159	1,775	399	72,437	8,830	27,259	43	129	1	0.91	19,100
															•								

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.07.01.10681,	11	
2025CPT.07.01.20681		

THERMOPLASTIC AND PAINT QUANTITIES

Part												1 111 1	- 17 19	OFL	731	10	A IN L	<i>J</i>	7 1 14	ı V	<u> </u>	4 1 1	IILS																
State Stat						900-E	N-000		9-000-E	9-000	5	9	9000-E	000-E		3-000						9-000				3-000-E	э-000-Е		000-E	9000-E	ų 100	N-000			N-000		900-E		N-000
						13000	57000		82000	88000	6	0000	00000	00060		20000						25000				75000	15000		20000	25000	00000	40000			45000		00006		05100
State Stat						44	44		46	46	4	9	47	47		47.						47.				47	48		84	48	0	84			84		84		64
State Stat	PROJECT NO COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO LENGTH WID	TH									Σ	6	8 6	06	ω 06	Σ	:	ے ا	,) N	ပ္	으 =							>	> 3	>	1	F (0	a	
## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						٦	의		_	_			>	}	. I 64	S (9)	N N	9	WO.	8	l_	ARE I WE	[]. _	H AR 1-1-	AST NG	NG PE							8	8 %	ğ >	 	à Å	I¥ ¥	8
## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						l H	¥ 8	≝		l §	벁		Ê	I≝ 3	SI	BU H	Sign	¥	AR AR	R S	8	돌		S S	P A K	D P I		I ₹	Ę		Į ½	g s	I.A.	TA TA	R AR	M M	. VEI	WEI 99 WEI	ABLE OW
Part						빌뜅	SIG IA	¥	YEL WH	Æ	¥	I VE	1¥	¥ §	MSG SE	MSG	MSG	MSG	STR	RTA	Σ Σ	\$ B	STR M	토빨		불물의	PAI V	/ ₄ ∧	PA	A I	6 09	GSI	8.	38 TR	AR G	AR AR	,24	12 S	EL JW
State Stat						2 2	S S S	ğ § ç	ΣοΣ	δ E	ξ § δ	ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο	5 8 5	ο ξ (2 2	8 8	2 8	9	8 8	8	0 N	္ မြ	MO W O W	δ δ <u>8</u>	Y AP Y	JEN API	9	9	l ≝ l	토 5	Ē ₹	MS MS	ST	IS E	l ∃ l ₹	F F E	≥ E ≥	A P I I I	MY VPL
Section Sect						N N	AR IN	E X S	ERI X9	ER X	1 × E	ERI Z"X	E X E	ERI E	£ £	HE SI HE	i #	ES E	# #	Į Ę	# 8 !	₩ ≥ ₩	# # # # # # # # # # # # # # # # # # #	H H H S	S KE D	. G G G G	∖ ≶ ₹	₹.	₹	2 2	- Z	A N	N N	N N	N N	A N N		ME LE	NO NO
Part					MI E	7	≥ F C	<u>0 4 ⊨</u>	4 🕇 🧿	E 15	: ∞ <u>+</u>	8 ± 1	<u> </u>	1E E	- <u>Ε</u>	FΣF	- Σ - Σ	ΕΛ	EA E	Σ Ε	E 4 1	<u> </u>	- 3 F Z F Z	EA EA	10 2 3 3	§ O S ⊒ 6	9 9	1.5	l E	H C	E EA	EA EA	EA I	<u>α</u> α	EA EA	EV EV E	₹ ≻ Σ	<u>≻Σ ας</u>	<u>ο ο Ξ Σ</u>
## 100 100				FROM SR 1780 - ESTES DR TO SR		_								., .		LA	LA LA			, LA		- I	LA LA	LA LA					-1			LA LA		LA LA	LA LA	LA LA LA	,		L.
Proceedings Proceedings Process Proces																				5 5	15	1 :	58																
2000FT 27 51 1000 1 0 mage 2 N.C.751 1.NE 2 0.66 1.07 1	TOTA	L FOR MAP	PNO. 1				3		1,	20,50	0 1,500	600		1,500					60 1	5 5	15	1 !	58				1,600 20,50	0 600	1,500	1,5	00						140	235	210
TOTAL FORM NOT THAN MORPHING METERS CHINGED STATE OF THE PROPERTY OF THE PROPE										_										Ι.																	1 1		
## STOM CONTRINGEN CON				LINE		24					-			-	-	1			1	1	-											+ +	1			+++			
STOTIAL FOR PRIAD CONTINUE	IOIA	L FOR MAP	P NU. 2	EROM IOINT NEAR MORGAN CREEK	0.66	_		7,000	6,500	.5		-	-	-	-	+		+ +	1	1	-					_		+	-	-	_	++-	+ +	-		++-	+	4	65
2025CPT_07_01_0081_ Ouspin S					vari	ies	*																													1			
TOTAL FOR MAN NO. 3 FROM SR 1742 - EPHESUS CHURCH RD	2025CPT.07.01.10681 Orange	3			4,5,6 3.58 25-	78 445	5		31	000 22,00	0 1,300	50	10	1,600 8	3 4	3			25 2	15	10		1 1	2	242	192	31,000 22,00	0	1,300	500 1,6	8 000	4 3	1	10 1	2 25	25 15		450	
202SCPT.07.01.10881 Drange 4 NC SALVIS 15-01 SQUITHOUND ND ND ND ND ND ND ND						445	5									3					10		1 1	2											2 25	25 15			
2025CFT 070 1.10881																																							
TOTAL FOR MAPPIOL 4																																				1			
TOTAL FOR PROLING. 2025CPT.07.01.10681				RD											1 4	3					1			5										1	30	20 35 5			
13.50 130,115 4,900 500 25 326	TOTA	L FOR MAP	P NO. 4					7 000														_	50 4 4																
202SCPT.07.01.20681 Orange 5 SR-1942 / JONES FERRY RD	TOTAL FOR PRO.	J NO. 2025	SCPT.07.01.10681		9.36	1,08	4 ^							4,600 1	2 8				106 /) 56	26			2 5						500 4,6			1 1	11 1		45 50 5	140	1,18	
2025CPT.07.01.20881 Orange 5 SR-1942 //ONES FERRY RD RD TO CHATHAM COUNTY 3 4.172 25 467 46,000 42,000 300 150 150 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								13	,500	130,113	4,0	,00	300	l		20						320				734	130,100	- 4,	,300			20			170		I		1,404
TOTAL FOR MAP NO. 5 FROM END OF LEFT TURN TAPER SW OF SR 1937 OLD FAVETTEVILLE RD TO OF SR 1937 OLD FAVETTE RD TO OF SR 1937 OLD FAVETTE RD TO OF SR 1937 OLD FAVETTE RD TO OF				FROM SR 1005 OLD GREENSBORO																																			
FROM END OF LEFT TURN TAPER SW OF SR 1937 OLD FAYETTEVILLER TO RADIUS OF SR 1937 OLD FAYETTEVILLER TO RADIUS OF SR 1937 OLD FAYETTEVILLER TO GREEN SBOROR D 3 0.52 26 7,800 7,500 50 200 55 6 5 1 1 1 1 1 2 5 492 242 64,600 65,500 600 4,800 50 60 12 8 6 1 11 1 2 55 495 0.50 4,500 600 4,800 50 12 8 6 1 11 1 2 0.50 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				RD TO CHATHAM COUNTY	3 4.172 2														1																	<u> </u>			
OF SR 1937 OLD FAYETTEVILLE RD TO RADIUS OF SR 1942 JONES FERRY RD WEST OF SR 1905 OLD GREENSBORD B 3 0.52 26 7,800 7,500 50 200 50 50 5 6 5 1 1 1 1 1 2 5 480 45 11 1 2 5 480 6 5 6 5 1 1 1 1 2 5 482 242 64,600 65,500 600 4,300 50, 4600 12 8 6 1 11 1 2 5 5 48 5 0 5 140 4 1,189 275	TOTA	L FOR MAP	P NO. 5		4.172	467	,	46,000	42,000 3	00			150						1																				
RADIUS OF SR 1942 JONES FERRY RD WEST OF SR 1005 OLD GREENSBOR RD 3 0.52 26 7,800 7,500 50 200 50 50 50 50 50 50 50 50 50 50 50 50 5																																				1			
VICTOR 1,000 CREAND TOTAL FOR PROJ TOTAL FOR PR							*																													1			
2025CPT.07.01.20681 Orange 6 SR-1005 / JONES FERRY RD GRENSBOR RD 3 0.52 26																																				1			
TOTAL FOR MAP NO. 6 0.52 7,800 7,500 50 200 150 150 150 150 150 150 150 150 150 1	2025CPT 07 01 20681 Orange	6	SR-1005 / IONES FERRY RD		3 0.52 26	6		7 800	7 500	in	200			50			5 6	5				1														1		4	
TOTAL FOR PROJNO. 2025CPT.07.01.20681 4.692 467 * 53,800 49,500 350 200 150 1 5 6 5 1 1 1 1 2 5 492 242 64,600 65,500 600 4,300 500 4,600 12 8 6 1 11 1 2 5 45 50 5 140 4 1,189 275						_								50			5 6	5				1							1 1									4	
GRAND TOTAL STATE OF THE PROPERTY OF THE PROPE			COT 07 04 00004			467	7 *						150				5 6	5	1		i i	1							t t										
	TOTAL FOR PRO.	I OTAL FOR PROJ NO. 2025CPT.07.01.20681						103	,300	350	20	00	150		•	16	•		•	•		2		•								•		•	•				
116,800 130,465 5,100 650 42 328 734 130,100 4,900 26 170 1,464	GRAND TOTAL		TAL		14.052	1,55	1.00							4,650 1	2 8			5	107 7	56	26			2 5						500 4,6			1 :	11 1		45 50 5	140	4 1,18	
								116	5,800	130,465	5,1	100	650			42						328			1	734	130,100	1 4,	900			26	1		170		_1		1,464

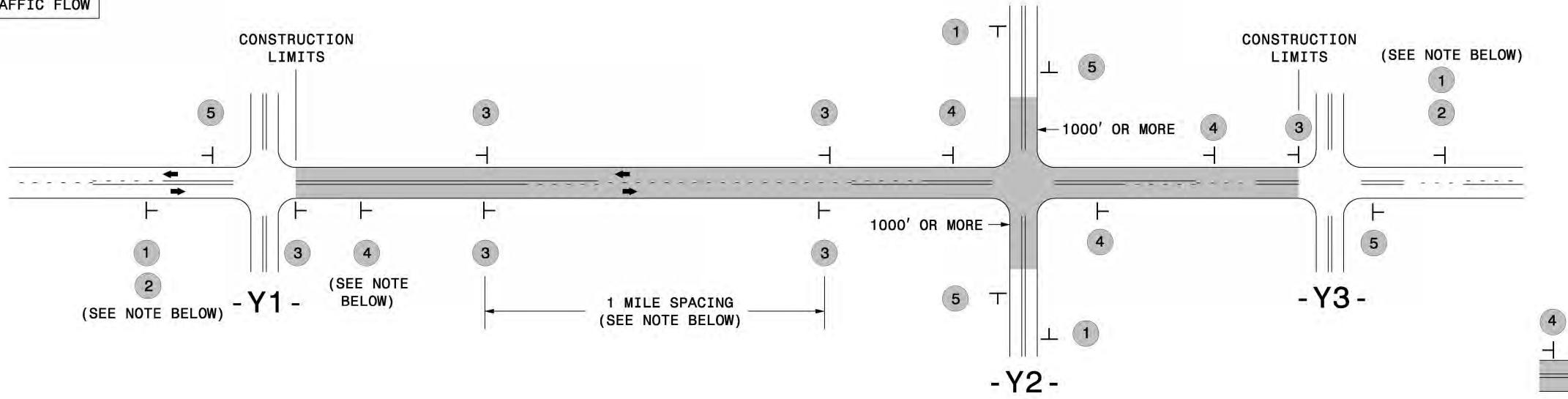
PROJ. REFERENCE NO. SHEET NO. 2025CPT.07.01.10681 TMP-1

SIGNING FOR RESURFACING PROJECTS

LEGEND

├─ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

CONSTRUCTION

LIMITS

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND CEMENT PER DIRECTION



PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

#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)

SP 13107 48" X 48"

ROAD

UNDER

- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
- 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.

END ROAD WORK 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 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.

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

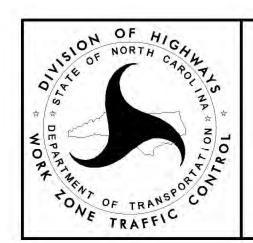
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER.

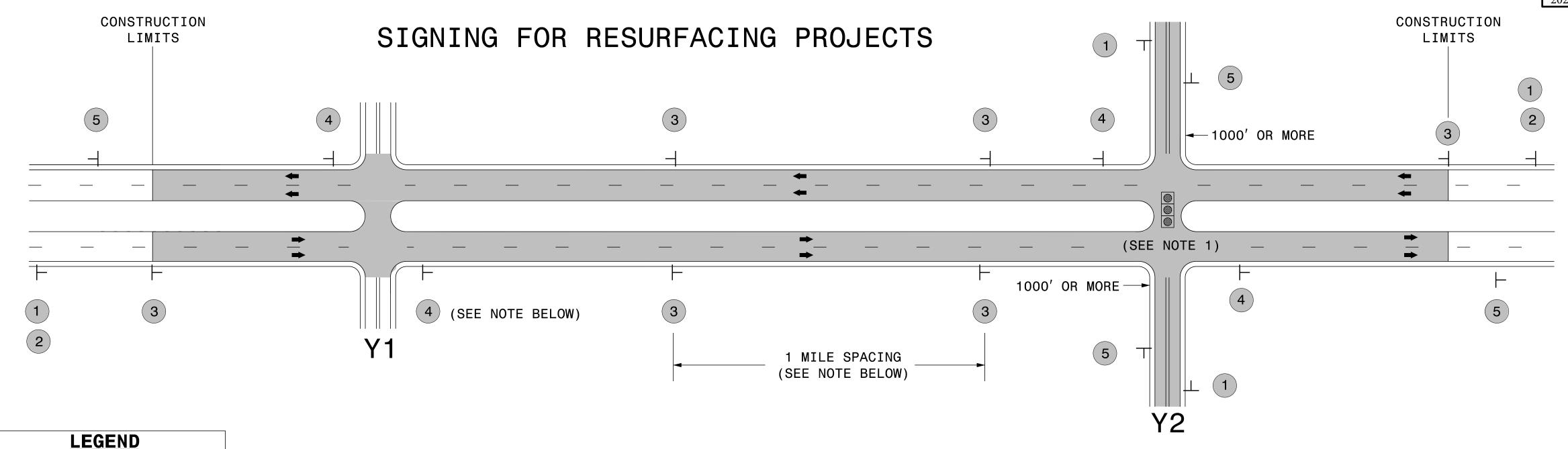


PLACED 250' IN ADVANCE OF FLAGGER.



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

PROJ. REFERENCE NO. 2025CPT.07.01.10681 TMP-2 2025CPT.07.01.20681



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

XX MILES 24" X 18" ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)

PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART LOW/SOFT THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET $\frac{1}{2}$ MILE FROM THE SHOULDER / CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.

THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM **ROAD** EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT UNDER 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 SP 13106 48" X 48" INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.

PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE

-Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

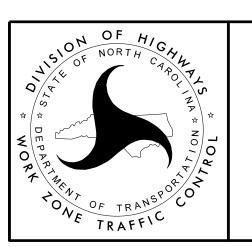




PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

NOTES:

1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.



RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS W/ SHOULDER SECTIONS

├ STATIONARY SIGN

O

ND

A RE

NO ER

IGNING

SO

AHEAD W20-1

48'' X 48''

END

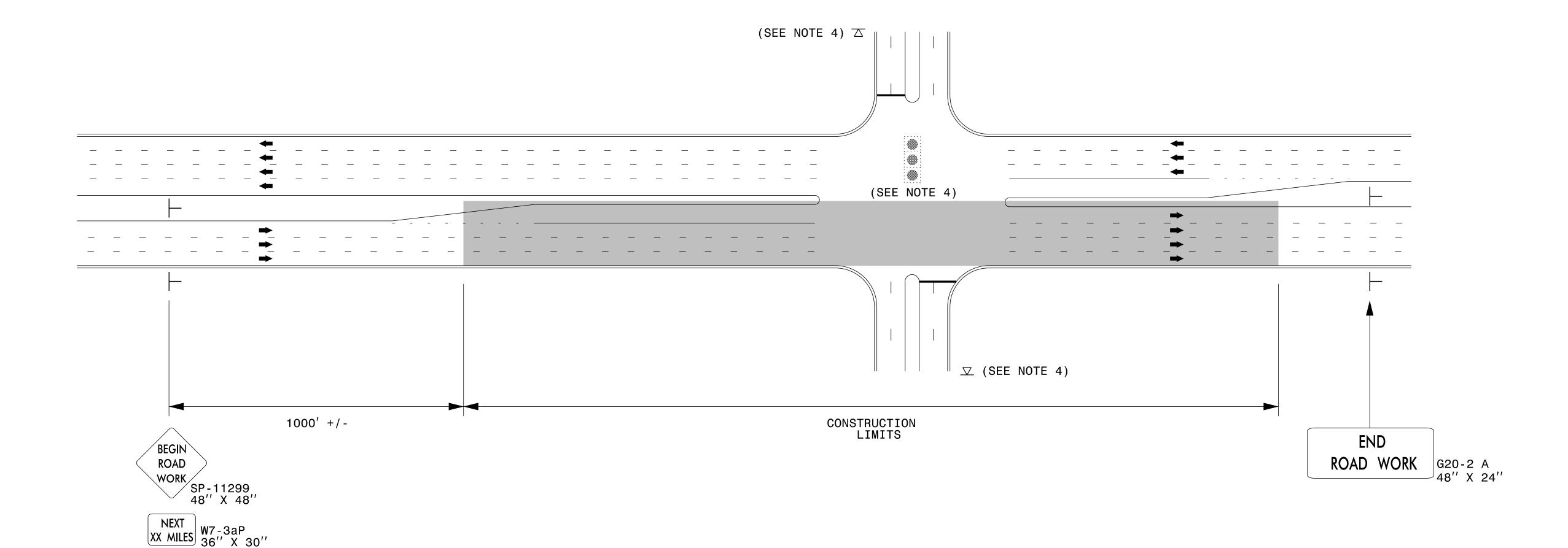
ROAD WORK

G20–2 A

48" X 24"

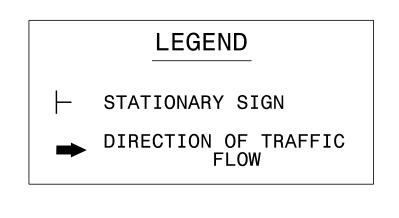
← DIRECTION OF TRAFFIC FLOW

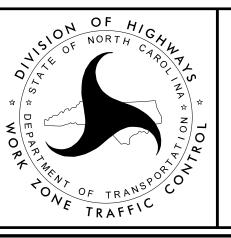
URBAN / SUBURBAN WORKZONES



NOTES:

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.



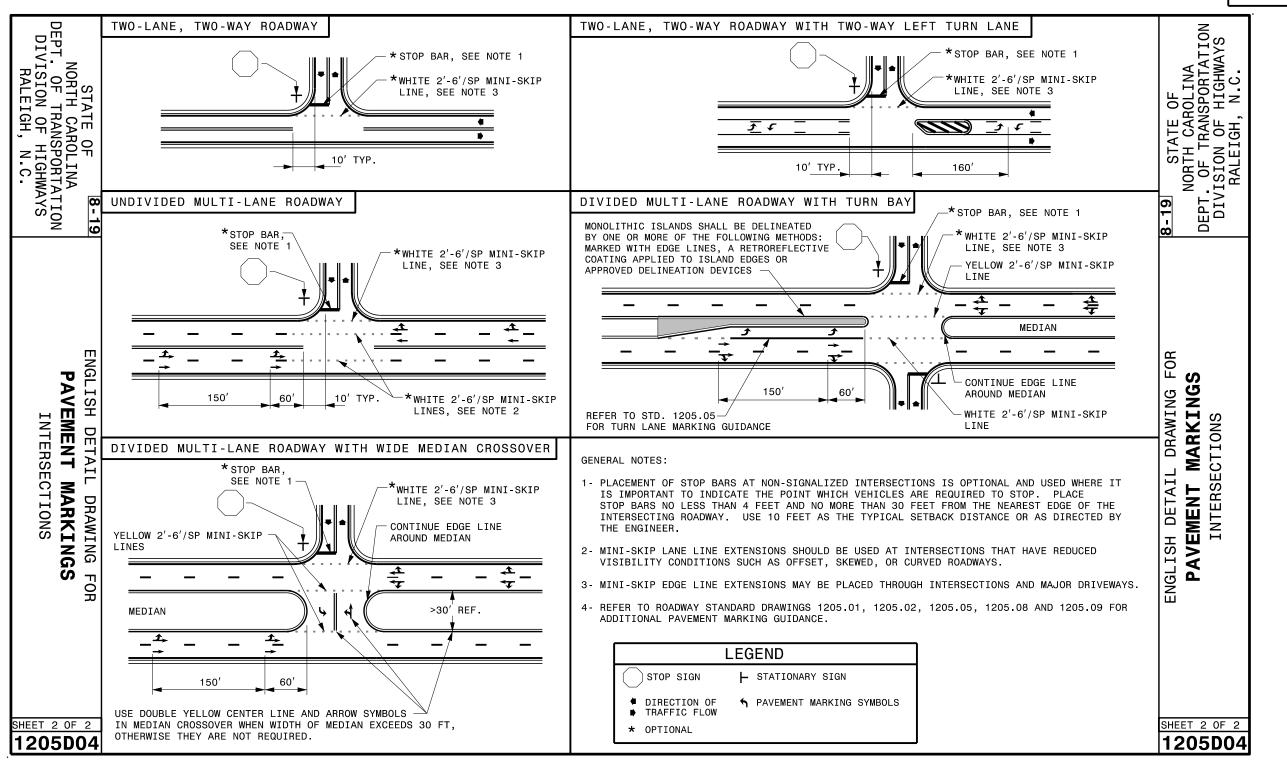


RESURFACING ADVANCE
WARNING SIGNS FOR
URBAN / SUBURBAN
FACILITIES

PROJECT REFERENCE NO. 2025CPT.07.01.10681 2025CPT.07.01.20681

SHEET NO. PMP-1





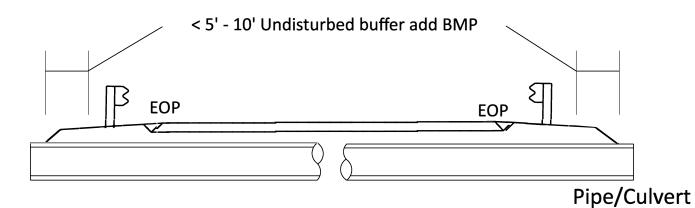
EROSION CONTROL DETAIL

PROJECT REFERENCE NO. SHEET NO.
2025CPT.07.01.10681, 2025CPT. 07.01.20681 EC-1

< 5' - 10' Undisturbed buffer from

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

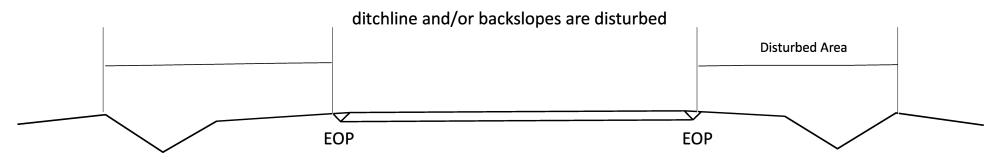


< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

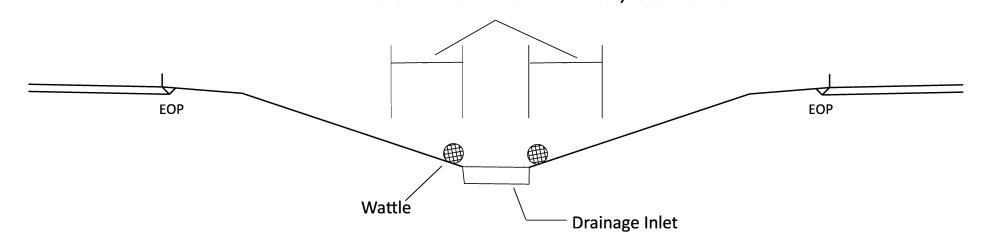


Jurisdictional Feature

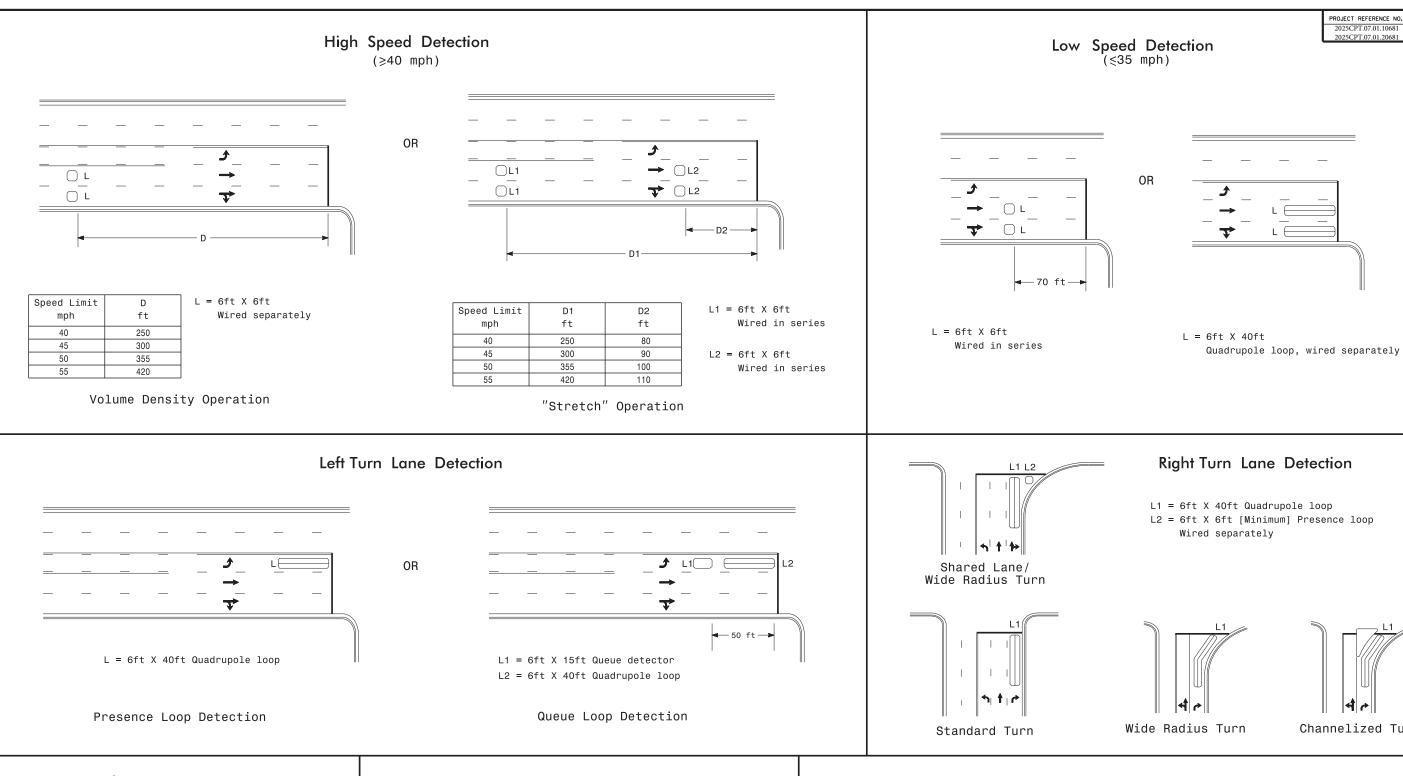
Use BMP's if shoulders and/or frontslopes and/or



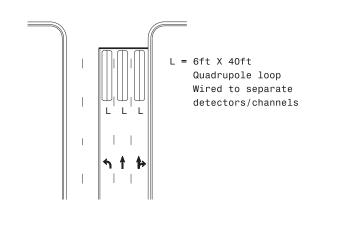
< 5' - 10' Undisturbed buffer from inlet, add wattle



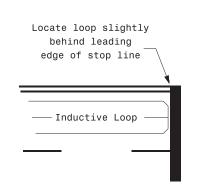
NOT TO SCALE







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

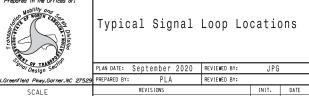
N/A

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



LIAZION P. Galloway

Channelized Turn

PROJECT REFERENCE NO. SHEET NO. 2025CPT.07.01.10681 2025CPT.07.01.20681