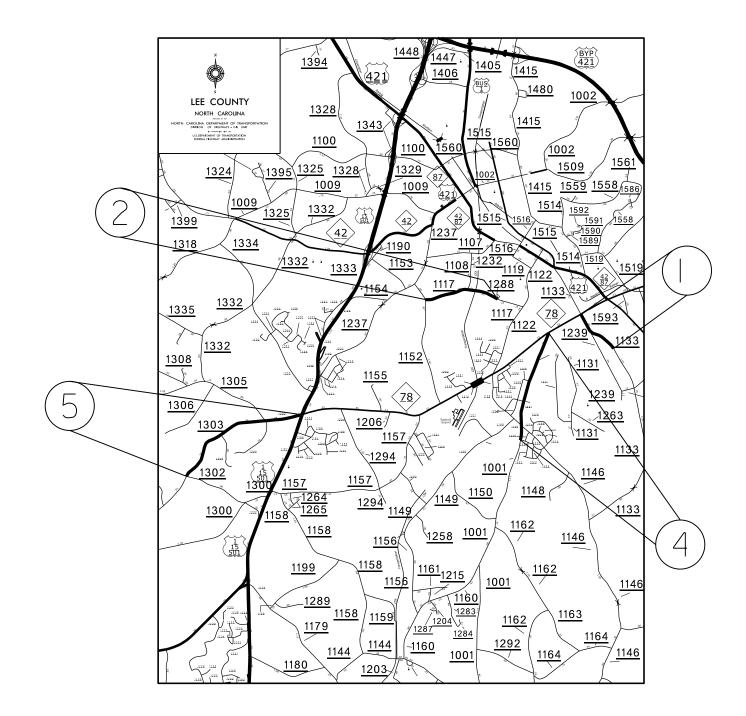
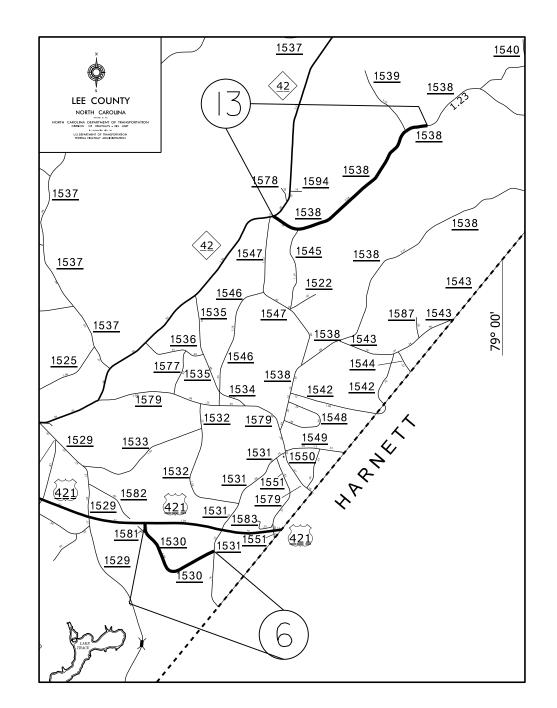


WBS ELEMENT SHEET NO.

2021CPT.08.02.20531

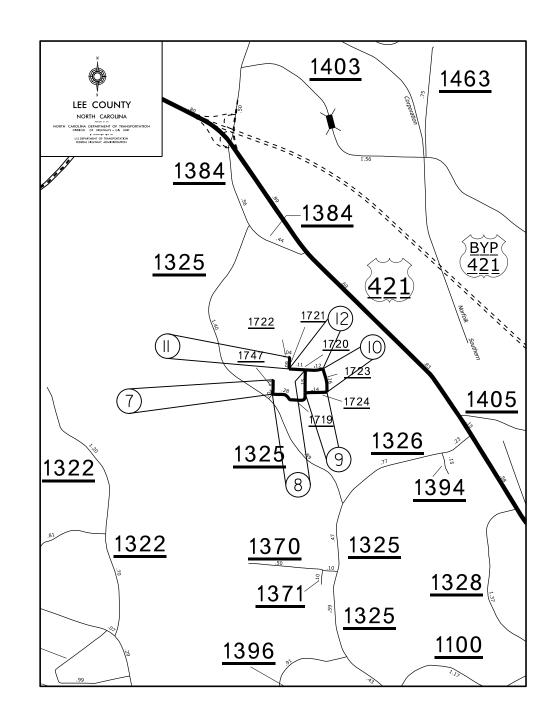
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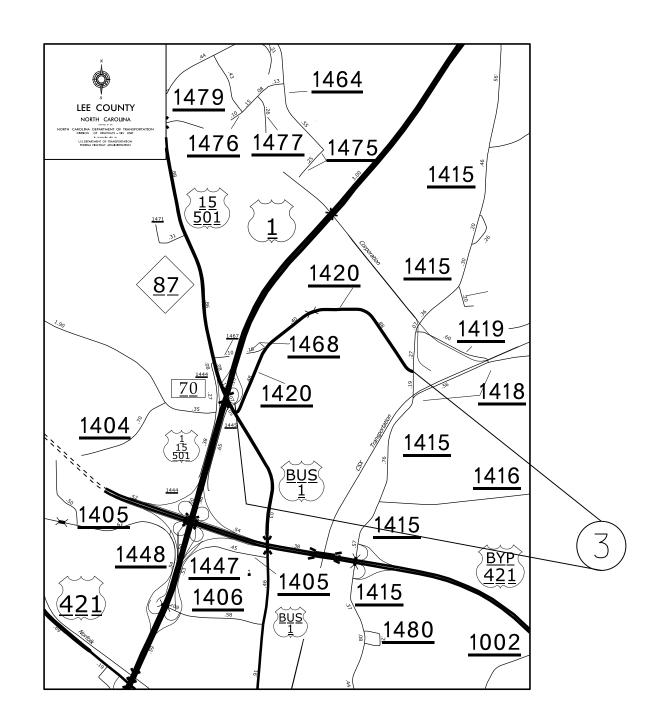




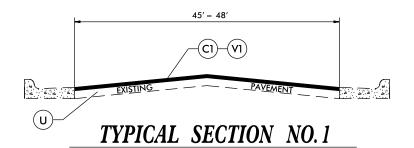
WBS ELEMENT SHEET NO.
2021CPT.08.02.20531

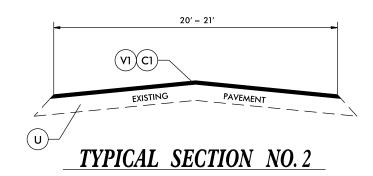
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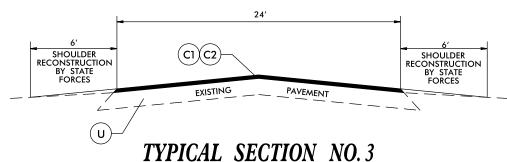




SHEET NO.



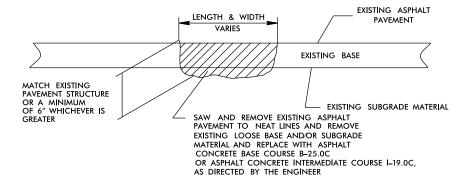


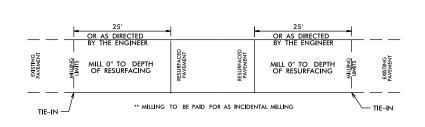


NOTE: SHOULDER RECONSTRUCTION AND STRIPING TO BE PERFORMED BY STATE FORCES.

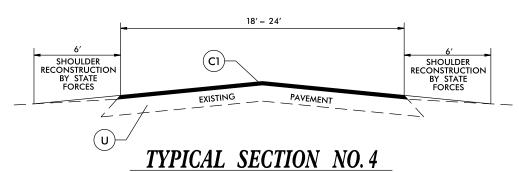
DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING

DETAIL

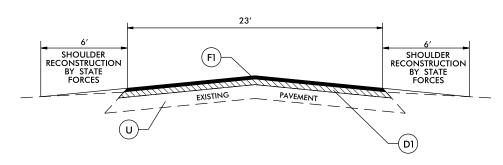




PAVEMENT TIE-IN DETAIL



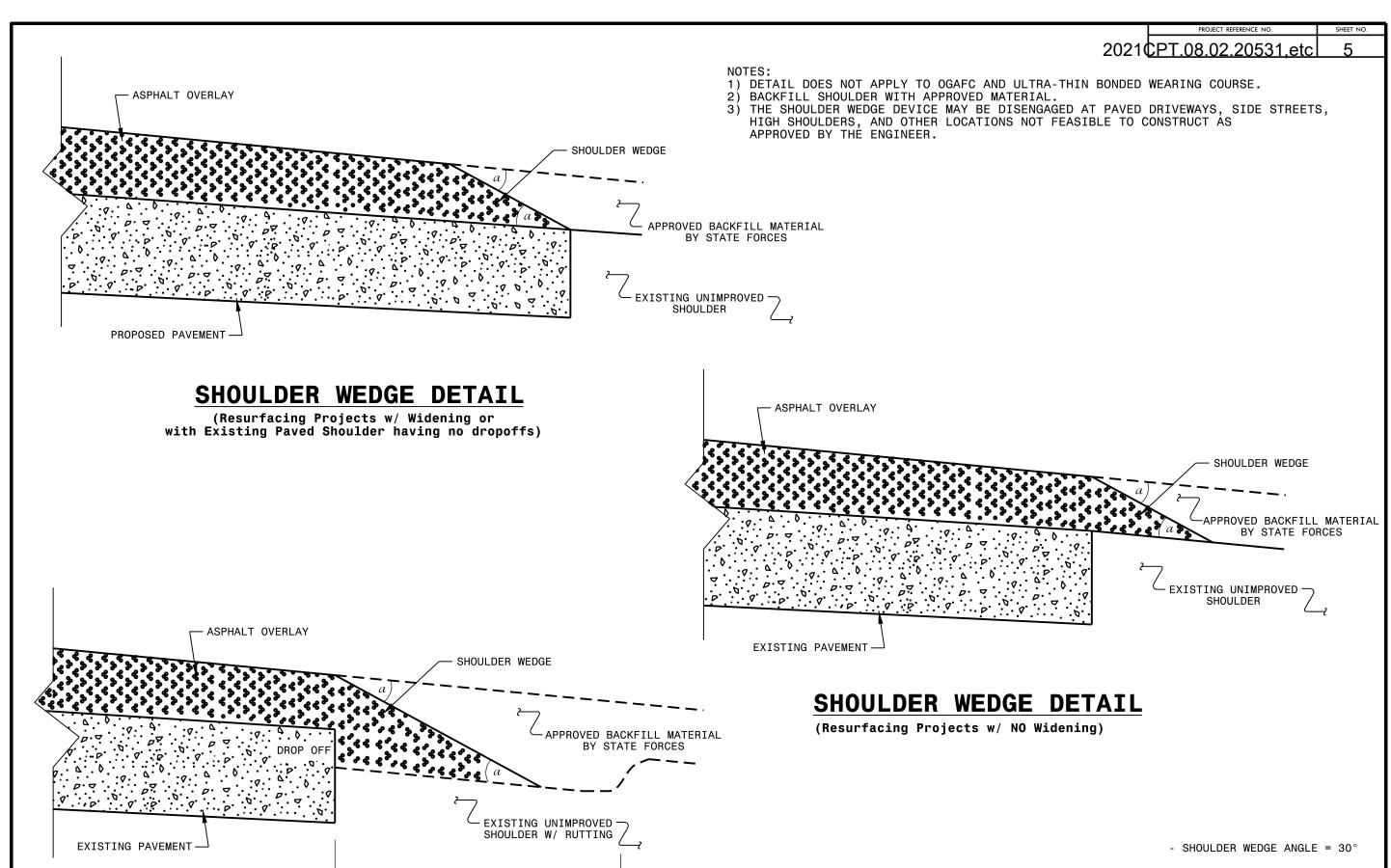
NOTE: SHOULDER RECONSTRUCTION AND STRIPING TO BE PERFORMED BY STATE FORCES.



TYPICAL SECTION NO. 5

NOTE: SHOULDER RECONSTRUCTION AND STRIPING TO BE PERFORMED BY STATE FORCES.

		PAVEMENT SCHEDULE
	C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE \$9.5B, AT AN AVERAGE RATE OF 165 LBS. PER \$Q. YD.
	C2	PROP. APPROX. 1.0" ASPHALT CONCRETE LEVELING COURSE, TYPE \$9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
	Dì	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.OC, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
	F1	PROPOSED ASPHALT SURFACE TREATMENT, DOUBLE SEAL
	U	EXISTING PAVEMENT.
	V1	MILLING 1.5" IN DEPTH



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

SHOULDER WEDGE DETAILS

ORIGINAL BY:	T.SPELL DATE:	7-19-11
MODIFIED BY:	DATE:	10/16/12
CHECKED BY:_	DATE:	
FILE SPEC . s	usr/details/stand/shoulderwedg	edetail.dgn

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.08.02.20531	6	

SUMMARY OF QUANTITIES

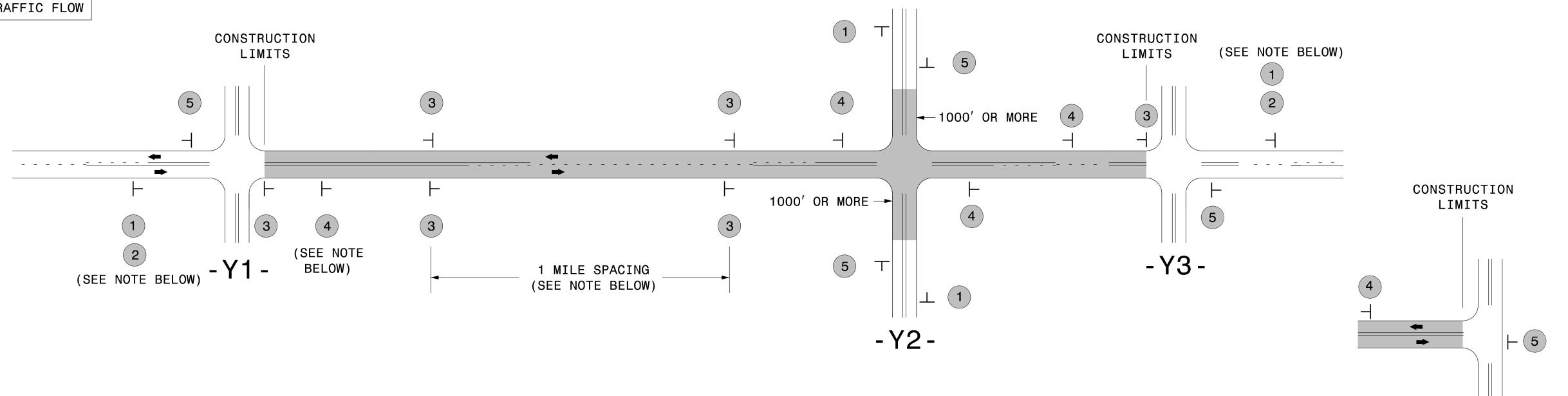
	SOMMAN OF QUANTITIES																									
		MA ROUTE				LANE			LENGTH			INC.	119.0C	S9.5B	LEVELING			<u> </u>	EMUL-	ADJ.	ADJ.	IND.	LEAD-	WZ	TEMP.	
9	、 、	P		NO		IYPE	SURFACE			IH	MILLING				COURSE,	BINDER FOR		DOUBLE		OF	OF	LOOP SAW-	IN	GEN.	TRAFFI	RCEM
PROJECT NO	۱"	NO			ES		TESTING	ASPHALT REQUIRED				G			S9.5B	PLANT	PAVEM ENT	SEAL	FOR AST	HOLES		CUT	(14-2	GEN. WARN.	CONTR	
	3						D	REQUIRED								MIX	EINT			HOLES	VALVE	(0)	1 -	SIGNIN		EINI
K	١															IVIIX					BOX		' All.,	G	"	
									MI	FT	SY	SY	TONS	TONS	TONS	TONS	TONS	SY	GAL	EA	EA	LF	LF	SF	LS	HR
		SR 1133 (LEE	FROM NC 78 TO PVMNT																							
		1 AVE)	JOINT AT RAND ST	1	2	MU	NO	NO	0.51	43	12,866	865		1,280		86				3	4	1,200	1,200	126		40
			FROM SR 1152																							
		SR 1117	(FIRETOWER RD) TO SR																							
		2 (GARDEN ST)	1298 (W GARDEN ST)	2	2	2WU	NO	NO	1.04	20	12,203	400		1,105		74	100							224		
			FROM US 1 BUS																							
		SR 1420 (AMOS	(HAWKINS AVE) TO SR																							
		3 BRIDGES RD)	1415 (COLON RD)	3	2	2WU	NO	NO	1.72	24				2,240	1,475	249	325							192		
		` I	FROM NC 78 TO SR 1245																							
	-	4 SPRINGS RD)	(MEADOW DR)	2	2	2WU	NO	NO	1.52	21	20,251	1,242		1,840		123					2			170	<u> </u>	
		SR 1303	EDOMALIC 4 TO CD 4202																							
		(CENTER	FROM US 1 TO SR 1302		_	214/11	NO	NO	4.00	22				2.475		466	200							247		
	-	5 CHURCH RD)	(ARTHUR MADDOX RD)	4	2	2WU	NO	NO	1.93	22				2,475		166	200							217	1	
		SR 1530	FROM US 421 BUS TO SR																							
31		(PEPPERMILL 6 RD)	1531 (SWANNS STATION RD)	1	2	2WU	NO	NO	1.39	19				1 410		94	125							150		
2021CPT.08.02.20531	-	6 RD)	FROM SR 1325 (VALLEY	4		2000	NO	NO	1.39	19				1,410		94	125							150	1	
02.		SR 1747 (WILD	RD) TO END STATE																							
.08	Fee	7 FOREST RD)	MAINT.	1	2	2WU	NO	NO	0.13	18				125		8	85							15		
I P	-	SR 1719	FROM SR 1747 (WILD			2000	NO	110	0.13	10				123			05							13	1	
210		(WILDWOOD	FOREST DR) TO SR 1720																							
70		8 DR)	(PALMETTO PATH)	4	2	2WU	NO	NO	0.47	18				450		30	125							53		
			FROM SR 1719																						1	
		SR 1724	(WILDWOOD DR) TO SR																							
		9 (LONGLEAF LN)	1723 (DEBRA LN)	4	2	2WU	NO	NO	0.15	18				150		10	100							17		
			FROM SR 1724																						1	
		SR 1723 (DEBRA	(LONGLEAF LN) TO SR																							
		10 LN)	1720 (PALMETTO PATH)	4	2	2WU	NO	NO	0.16	18				155		10	75							18		
		SR 1720	FROM SR 1721 (SMOKEY																							
		,	PATH) TO SR 1723 (DEBRA																							
	_1	11 PATH)	LN)	4	2	2WU	NO	NO	0.23	18				220		15	85							26		
			FROM SR 1720]																		
			(PALMETTO PATH) TO SR																							
		12 (SMOKEY PATH)	1722 (WILD FOREST RD)	4	2	2WU	NO	NO	0.09	18				90		6	30							19	_	
			FROM NC 42 TO PVMNT																							
		SR 1538	JOINT 0.28 MILES FROM																							
	1	13 (BUCKHORN RD)	SR 1539 (LANIER FARM	5	2	2WU	NO	NO	2.7	23			5,195			249	110	36,455	18,228					302	*	
					,		ı	1	I	ı		I :			I	1		I	I	1 -			T		1	1 -
GF	RANI	D TOTAL FOR PROJ NO	D. 2021CPT.08.02.20531	1			1		12.04		45,320	I 2.507	5.195	11,540	1,475	1,120	1.360	36,455	I 18.228	3	6	1.200	1,200	1.529	I	40

PROJ. REFERENCE NO. 2021CPT.08.02.20531 TMP-1

SIGNING FOR RESURFACING PROJECTS



← DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

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5

 \Box

 \triangleleft

ROAD ` WORK AHEAD 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.

ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)



- 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.
- **ROAD** UNDER
- 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.

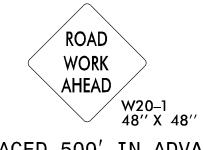
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

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

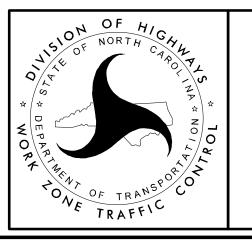
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER.



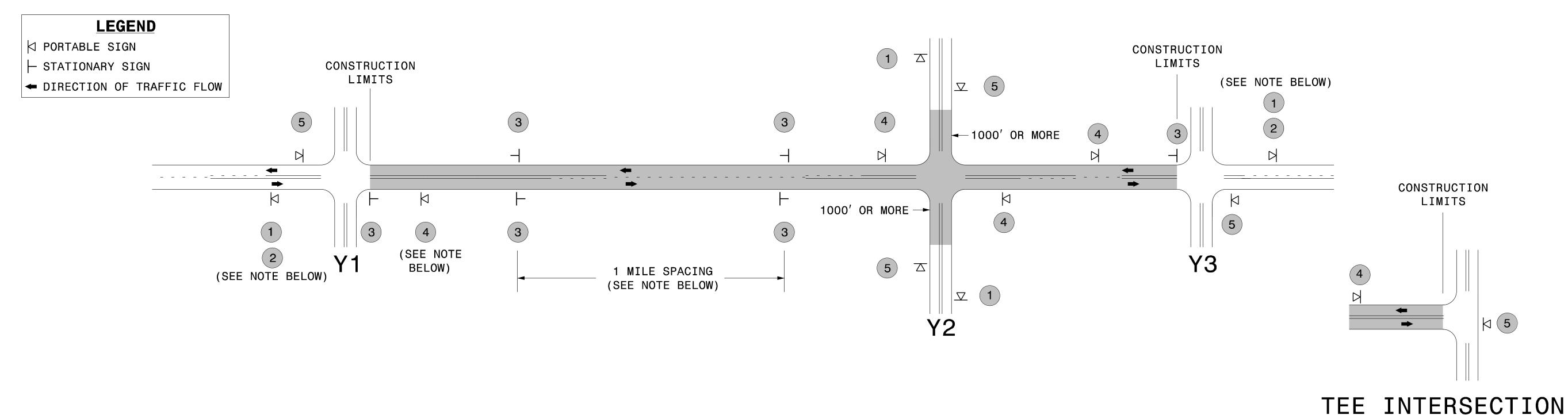
PLACED 250' IN ADVANCE OF FLAGGER.



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

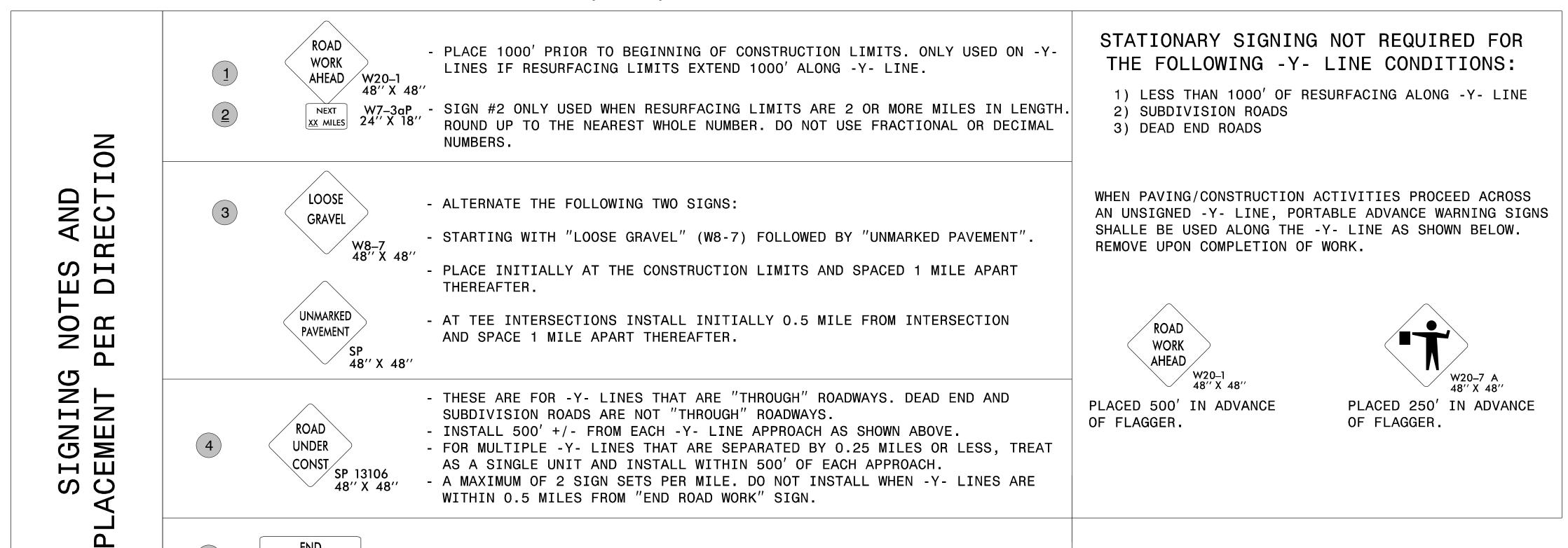
PROJ. REFERENCE NO. SHEET NO. 2021CPT.08.02.20531 TMP-2

SIGNING FOR ASPHALT SURFACE TREATMENT



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING





ADVANCE WARNING SIGNS
FOR
2-LANE ROADWAY
ASPHALT SURFACE TREATMENT

IZ/ZUI/ \TMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_

MAPS LESS THAN 2 MILES ROAD WORK

G20–2 A 48'' X 24''

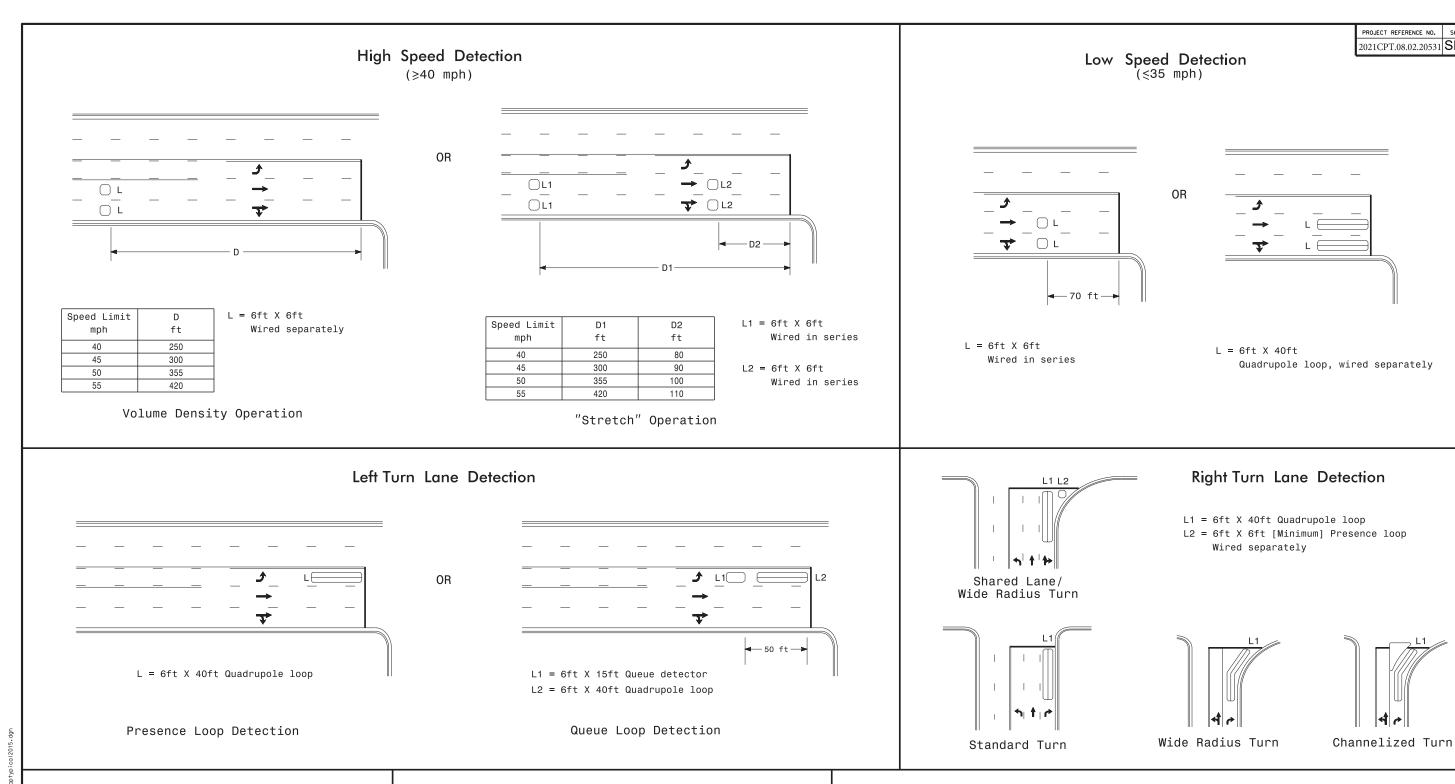
START OF CONTRACT WORK.

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.

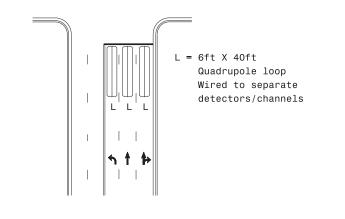
WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.

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

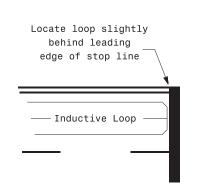
PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN







Presence Loop Placement at Stop Lines



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

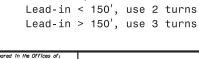
- 1) stop line is greater than 15' from edge of intersecting roadway
- 2) loop detects a permissive or protected/permissive left turn
- 3) for an exclusive right turn lane

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:



Tronspor	Typical Signal	LOOP LOO	catio	ons	W. W. J.
OF TRANSPORTOR	PLAN DATE: September 2020	REVIEWED BY:	JPG		17
750 N.Greenfield Pkwy,Garner,NC 27529	PREPARED BY: PLA	REVIEWED BY:			,
SCALE	REVISIONS		INIT.	DATE	20005
NI / A					JIA.JIM
N/A					

PROJECT REFERENCE NO. SHEET NO. 2021CPT.08.02.20531 **SIG-1**