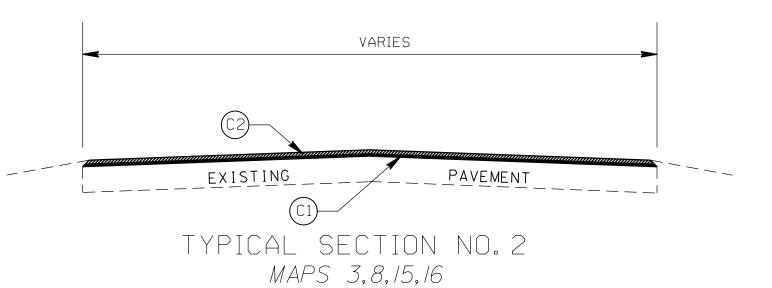


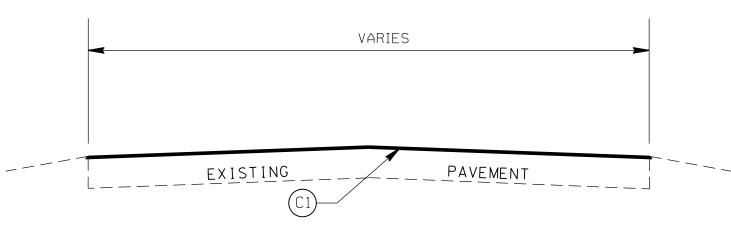
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS						
N.C.	2018CPT.10.06.20902.1	2							
F.A. PROJECT NO.									



## PAVEMENT SCHEDULE

C1)	ASPHALT	SURFACE	TREATMENT	





TYPICAL SECTION NO.1 MAPS 1-2,4-7,9-14

UNION COUNTY AST 2019

SCALE	NTS
DATE	1-11-2018
DWG. BY	TBL
DESIGN BY	TWB
ADDDOVED	TWD



0 F	REVISIONS								
**************************************									
CONSTRUCT									

PROJECT NO.	SHEET NO.	TOTAL NO.				
2018CPT.10.06.20902.1	3	5				

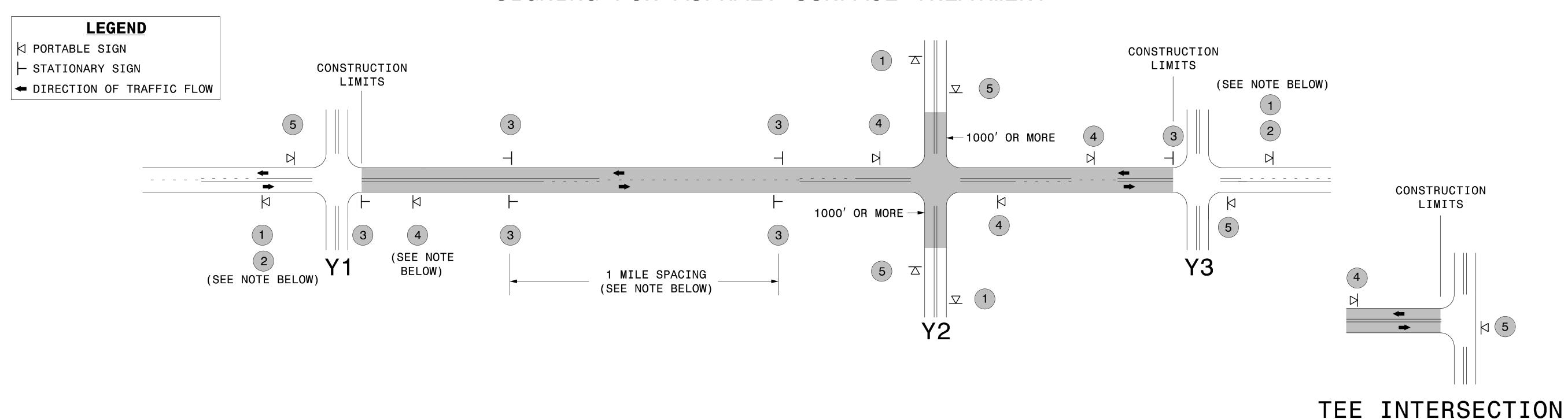
## SUMMARY OF QUANTITIES

			30 101 101 A K 1									1803500000-E	1820000000-E	1838000000-E	2143000000-E	4457000000-N	4413000000-E
PROJECT NO	COUNTY MAP NO R	OUTE	DESCRIPTION	BEGIN MP	END MP	TYP NO	LANES FI	INAL	WARM MIX	LENGTH	WIDTH	ASPHALT	ASPHALT	EMULSION FOR	BLOTTING	TEMPORARY	WORK ZONE
							SUI	RFACE	ASPHALT			SURFACE	SURFACE	ASPHALT	SAND	TRAFFIC	ADVANCE/GENERAL
								STING	REQUIRED			TREATMENT,	TREATMENT,	SURFACE		CONTROL	WARNING SIGNING
							REQ	UIRED				DOUBLE SEAL	FOG SEAL	TREATMENT		_	
										MI	FT	SY	SY	GAL	TON	LS	SF
2018CPT.10.06.20902.1	Union 1 MINI-RANC	CH RD (SR 1102)	FROM THE SOUTH CAROLINA LINE TO WAXHAW CREEK RD (SR 1104)	0.00	2.10	1	2	NO	NO	2.1	20	24,640		13,552			96
2010011.10.00.20302.1	TOTAL FOR MAP NO. 1	SIT ND (SIX 1102)	TROW THE SOUTH CAROLINA LINE TO WANHAW CREEK RD (SK 1104)	0.00	2.10	1		110	NO	2.1	20	24,640		13,552			96
												2.,0.0		10,001			
2018CPT.10.06.20902.1	Union 2 BUD HUE	Y RD (SR 1115)	FROM SIMPSON RD (SR 1114) TO PROVIDENCE RD (SR 1117)	0.01	0.75	1	2	NO	NO	0.74	20	8,683		4,775			64
	TOTAL FOR MAP NO. 2									0.74		8,683		4,775			64
2018CPT.10.06.20902.1		ILL RD (SR 1118)	FROM POTTERS RD (SR 1137) TO THE END OF MAINTENANCE	0.00	0.67	2	2	NO	NO	0.67	18	7,075	7,075	3,891			64
	TOTAL FOR MAP NO. 3									0.67		7,075	7,075	3,891			64
2040507 40 05 20002 4	DAVAGNO US	TIME DD (CD 4422)	EDOM DOTTEDS DD /SD 4437\ TO THE END OF MAINTENANCE	0.00	0.55	4	2	NO		0.55	40	F 000		2 404			C4
2018CPT.10.06.20902.1	Union 4 RAYMOND HE TOTAL FOR MAP NO. 4	ELMS RD (SR 1122)	FROM POTTERS RD (SR 1137) TO THE END OF MAINTENANCE	0.00	0.55	1	2	NO	NO	0.55 <b>0.55</b>	18	5,808 <b>5,808</b>		3,194 <b>3,194</b>			64 <b>64</b>
	TOTAL FOR MAP NO. 4									0.55		3,808		3,134			04
2018CPT.10.06.20902.1	Union 5 BRADY F	RD (SR 1125)	FROM PROVIDENCE RD (SR 1117) TO POTTERS RD (SR 1137)	0.00	1.50	1	2	NO	NO	1.5	20	17,600		9,680			64
	TOTAL FOR MAP NO. 5	(0.1.2.2.0)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1.5		17,600		9,680			64
												•					
2018CPT.10.06.20902.1	Union 6 TOM GREEN	NE RD (SR 1129)	FROM NC 522 TO TOM STARNES RD (SR 1128)	0.00	0.74	1	2	NO	NO	0.74	18	7,814		4,298			64
	TOTAL FOR MAP NO. 6									0.74		7,814		4,298			64
	_					_											
2018CPT.10.06.20902.1		NE RD (SR 1130)	FROM TOM STARNES RD (SR 1128) TO THE SOUTH CAROLINA LINE	0.00	2.38	1	2	NO	NO	2.38	20	27,925		15,359			96
	TOTAL FOR MAP NO. 7									2.38		27,925		15,359			96
2018CPT.10.06.20902.1	Union 8 FRANK BROC	OME RD (SR 1132)	FROM NC 522 TO THE END OF MAINTENANCE	0.00	0.74	2	2	NO	NO	0.74	18	7,814	7,814	4,298			64
2018071.10.00.20302.1	TOTAL FOR MAP NO. 8	JIVIL ND (SN 1132)	TROWING 322 TO THE END OF MAINTENANCE	0.00	0.74	2	2	INO	NO	0.74	10	7,814	7,814	4,298			64
	I I I I									0.74		7,014	7,014	4,230			04
2018CPT.10.06.20902.1	Union 9 LITTLE TOM STA	ARNES RD (SR 1133)	FROM NC 522 TO OLD HIGHWAY RD (SR 1133)	0.00	1.32	1	2	NO	NO	1.32	18	13,939		7,667			64
	TOTAL FOR MAP NO. 9									1.32		13,939		7,667			64
2018CPT.10.06.20902.1		TH CH RD (SR 1139)	FROM POTTERS RD (SR 1137) TO TOM STARNES RD (SR 1128)	0.00	0.79	1	2	NO	NO	0.79	20	9,269		5,098			64
	TOTAL FOR MAP NO. 10									0.79		9,269		5,098			64
2018CPT.10.06.20902.1	Union 11 MARY ELIZABE	TH CH RD (SR 1139)	FROM TOM STARNES RD (SR 1128) TO OLD HIGHWAY RD (SR 1133)	0.79	1.34	1	2	NO	NO	0.55	18	5,808		3,194			64
2010011.10.00.20302.1	TOTAL FOR MAP NO. 11	THE CITAL (SIX 1133)	THOM TOWN STANIALS NO (SIX 1120) TO OLD MICHWAI NO (SIX 1133)	0.73	1.54	1	2	110	NO	0.55	10	5,808		3,194			64
										0.00		3,000		5,25 :			<u> </u>
2018CPT.10.06.20902.1	Union 12 PROSPECT	T RD (SR 2169)	FROM RUBEN RD (SR 2171) TO PLYLER MILL RD (SR 2146)	0.00	1.77	1	2	NO	NO	1.77	18	18,691		10,280			64
	TOTAL FOR MAP NO. 12									1.77		18,691		10,280			64
		$\Box$															
2018CPT.10.06.20902.1		D (SR 2170)	FROM PROSPECT RD (SR 2169) TO PLYLER MILL RD (SR 2146)	0.00	1.63	1	2	NO	NO	1.63	18	17,213		9,467			64
	TOTAL FOR MAP NO. 13									1.63		17,213		9,467			64
2019CDT 40 0C 20002 4	Union 14	DD /CD 2474\	EDOM NIC E22 TO DIVIED MILL DO JOS 2440	0.00	2 47	4	,	NO	NO	2 47	10	20.002		14.240			00
2018CPT.10.06.20902.1	Union 14 RUBEN I	RD (SR 2171)	FROM NC 522 TO PLYLER MILL RD (SR 2146)	0.00	2.47	1	2	NO	NO	2.47 <b>2.47</b>	18	26,083 <b>26,083</b>		14,346 <b>14,346</b>			96 <b>96</b>
	TOTAL FOR IVIAP NO. 14									2.47	<del>                                     </del>	20,083		14,340			30
2018CPT.10.06.20902.1	Union 15 MCMANU	S RD (SR 2172)	FROM LATHAN RD (SR 1134) TO GRIFFITH RD (SR 2139)	0.00	1.43	2	2	NO	NO	1.43	18	15,101	15,101	8,305			64
	TOTAL FOR MAP NO. 15	` '	, , , , , , , , , , , , , , , , , , , ,							1.43		15,101	15,101	8,305			64
2018CPT.10.06.20902.1		DDS RD (SR 2223)	FROM NC 207 TO W. SANDY RIDGE RD (SR 2152)	0.00	0.71	2	2	NO	NO	0.71	18	7,498	7,498	4,124			64
	TOTAL FOR MAP NO. 16									0.71	ļ	7,498	7,498	4,124			64
TO	TOTAL FOR PROJ NO. 2018CPT.10.06.20902.1								20.09	<u> </u>	220,961	37,488	121,528	20.00	1	1,120	
	CRAND TOTAL									20.00	1	220.004	27.400	124 520	20.00		1.622
	GRAND TOTAL			ı					l	20.09	1	220,961	37,488	121,528	20.00	1	1,120

Note: The Contractor shall not park equipment or work outside of the existing right of way in Historic Areas

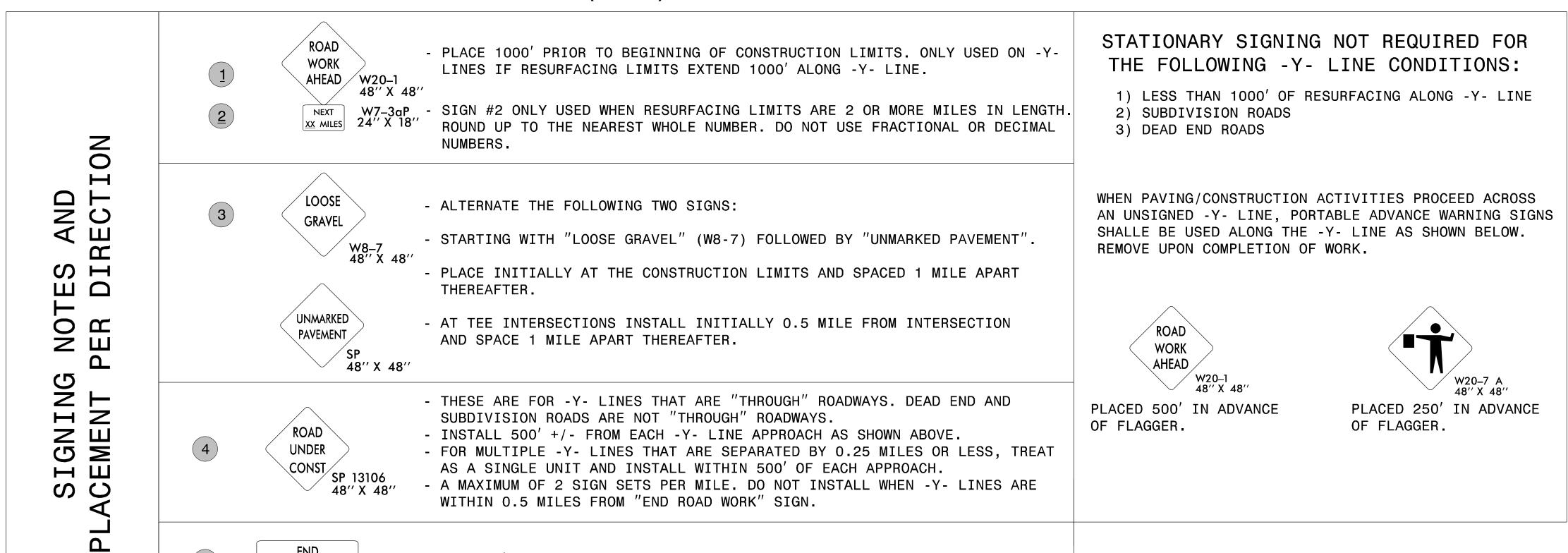
PROJ. REFERENCE NO. SHEET NO.

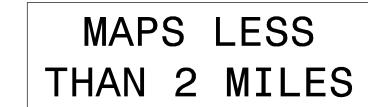
## SIGNING FOR ASPHALT SURFACE TREATMENT



# MAINLINE (-L-) SIGNING

# -Y- LINE SIGNING





ROAD WORK

G20–2 A 48'' X 24''

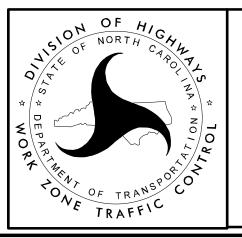
START OF CONTRACT WORK.

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.

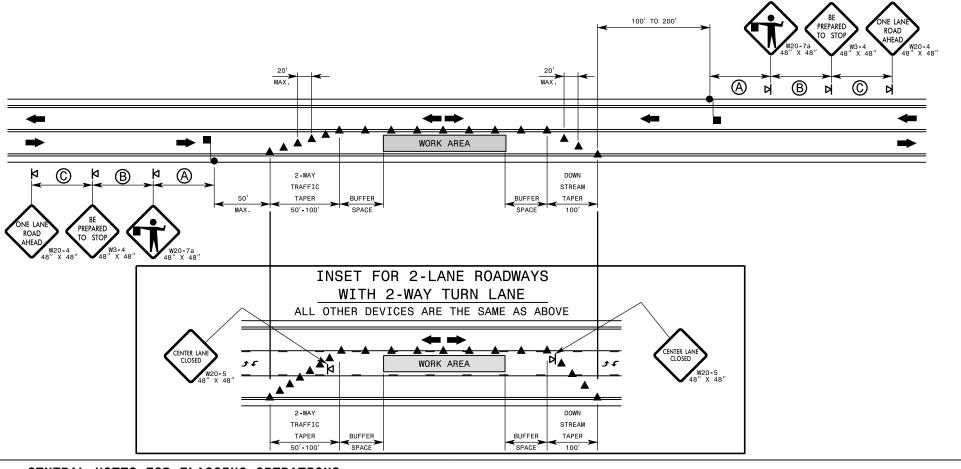
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE

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



ADVANCE WARNING SIGNS
FOR
2-LANE ROADWAY
ASPHALT SURFACE TREATMENT

II CARASAI TACITIGAZEZM & AST ARSAI TACITIG DATAIISARASAI TACITIGAAAVWALTIZELL T IIS



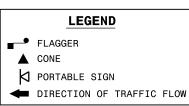
### **GENERAL NOTES FOR FLAGGING OPERATIONS**

- 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. 2-
- 3- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 4- PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 5- 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 TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- 7- DRUMS OR SKINNY DRUMS MAY BE USED IN LIEU OF CONES. REFER TO RSD. 1180.01 FOR SKINNY DRUM REQUIREMENTS.
- 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.

11- IF VEHICLE QUEUES WILL REACH WITHIN 15' 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.

### **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- 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 CAR OPERATIONS.



CLOSED FOR RE 080 DRAWING OADWAY N STANDARD ĕ *IEMPORAR* ROADWAY  $\alpha$ 

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

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