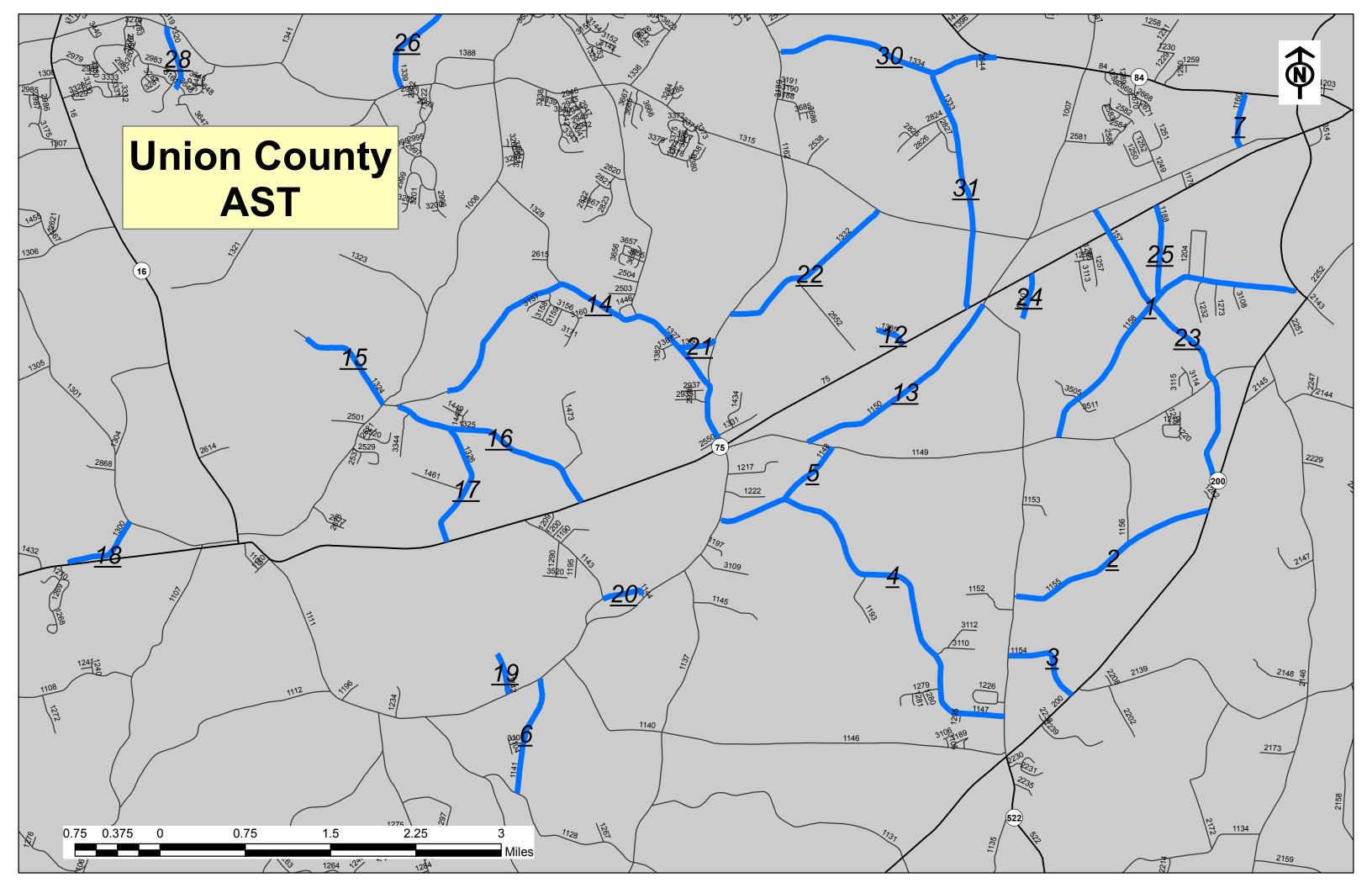
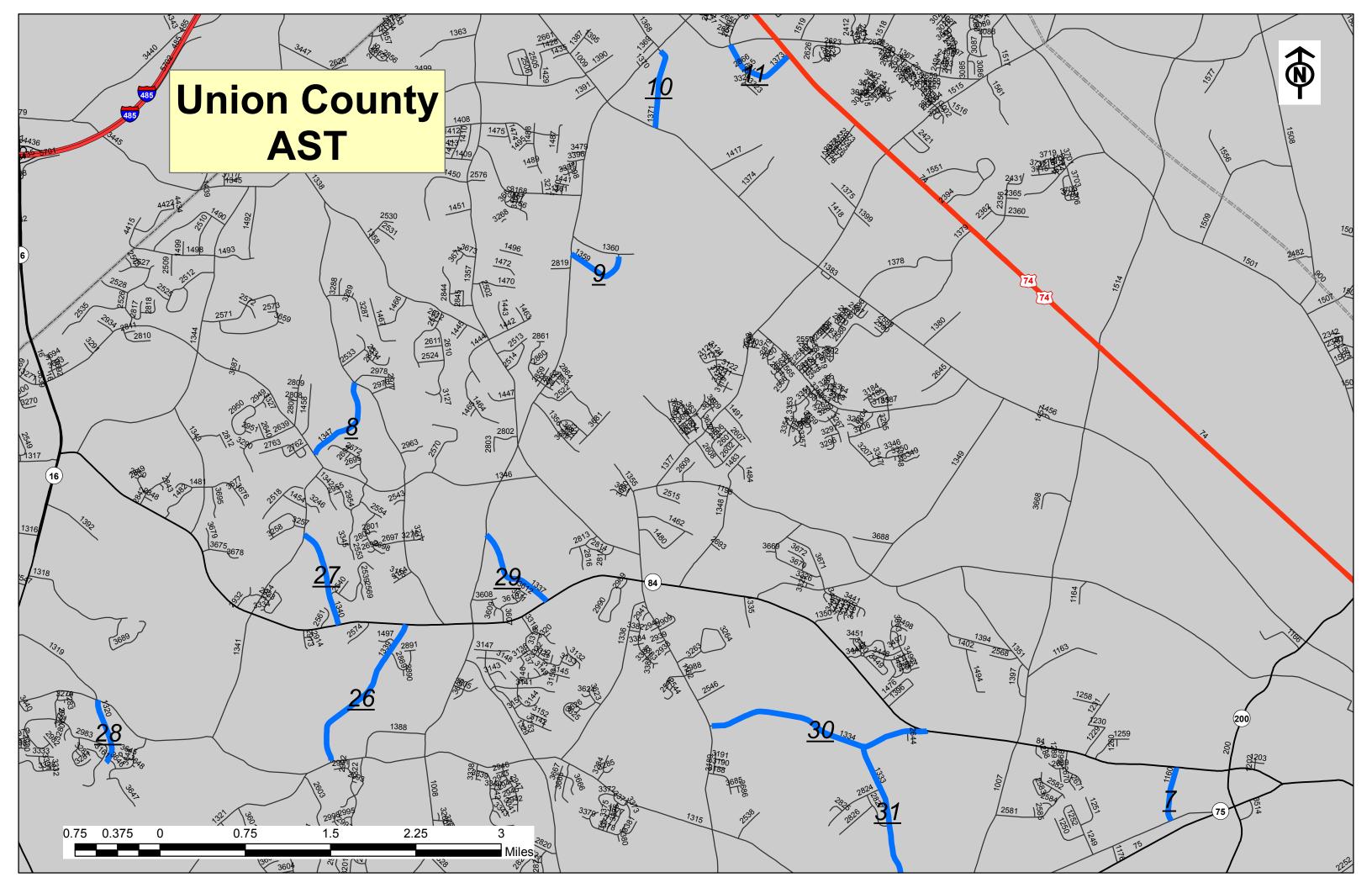
PROJECT NO.	SHEET NO.	TOTAL NO.		
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2016CPT.10.58.20902				

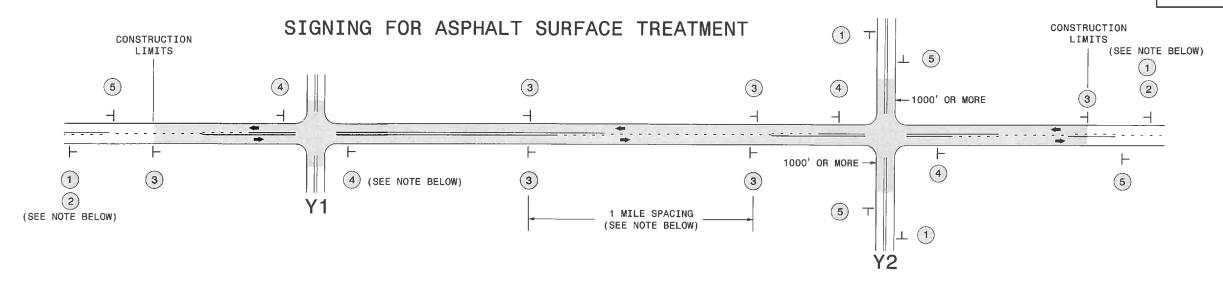
SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES														
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT,	EMULSION FOR ASPHALT SURFACE TREATMENT	BLOTTING SAND	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL
										TRIPLE SEAL				
NO 2016CPT.10.58.20902	Union	NO 1	CORINTH CH RD (SR 1158)	FROM NC 200 TO DOSTER RD (SR 1149)	NO	NO	MI 2.84	FT 20	SY	SY 33,323	GAL 26,325	TON	SF 182	LS
2016CPT.10.58.20902	TOTAI Union	FOR MA		FROM ROCKY RIVER RD (SR 1007) TO NC 200	NO	NO	2.84 1.92	18	20,275	33,323	26,325 11,151		182 118	
	TOTAL	FOR MA	AP NO. 2				1.92		20,275		11,151		118	
2016CPT.10.58.20902	Union TOTAI		GRIFFITH RD (SR 1154) AP NO. 3	FROM ROCKY RIVER RD (SR 1007) TO NC 200	NO	NO	0.8 0.8	20	9,387 9,387		5,163 5,163		112 112	
2016CPT.10.58.20902	Union	4	CROW RD (SR 1147)	FROM POTTER RD (SR 1111) TO ROCKY RIVER RD (SR 1007)	NO	NO	3.76	18	39,706		21,838		144	
2010C1 1.10.38.20902	Union TOTAI	FOR MA		TROMTOTIER RD (SR 1111) TO ROCKT REVER RD (SR 1001)	NO	NO	3.76	10	39,706		21,838		144	
2016CPT.10.58.20902	Union TOTAI	5 FOR MA	TOM LANDRY (SR 1148) AP NO. 5	FROM CROW RD (SR 1147) TO DOSTER RD (SR 1149)	NO	NO	0.62 0.62	18	6,547 6,547		3,601 3,601		112 112	
2016CPT.10.58.20902	Union	6	JOHN CRAIG RD (SR 1141)	FROM OLD WAXHAW/MONROE RD (SR 1111) TO MCWHORTER RD (SR 1128)	NO	NO	1.05	18	11,088		6,098		112	
2016CPT.10.58.20902	TOTAI Union	FOR MA	AP NO. 6 CLARK RD (SR 1160)	FROM NC 84 TO NEW TOWN RD (SR 1315)	NO	NO	1.05 0.48	18	11,088 5,069		6,098 2,788		112 112	
2010C1 1.10.38.20902			AP NO. 7	PROMING 84 TO NEW TOWN RD (SR 1313)	NO	NO	0.48	10	5,069		2,788		112	
2016CPT.10.58.20902	Union	8	HUNTINGTON RD (SR 1347)	FROM BEAULAH CH RD (SR 1346) TO ANTIOCH CH RD (SR1338)	NO	NO	0.83	20	9,739		5,356		112	
	TOTAL	FOR MA	AP NO. 8				0.83		9,739		5,356		112	
2016CPT.10.58.20902	Union TOTAI	9 FOR MA	HARTIS GROVE CH RD (SR 1359) AP NO. 9	FROM WAXHAW/INDIANTRAIL RD (SR 1008) TO BLANCHARD CIRCLE (SR 1360)	NO	NO	0.59 0.59	18	6,230 6,230		3,427 3,427		112 112	
2016CPT.10.58.20902	Union	10	SOUTH FORK RD (SR 1371)	FROM OLD CHARLOTTE RD (SR 1009) TO WAXHAW INDIANTRAIL RD (SR 1008)	NO	NO	0.71	18	7,498		4,124		112	
	TOTAL	FOR MA	P NO. 10				0.71		7,498		4,124		112	
2016CPT.10.58.20902	Union	11 FOR MA	PLYER RD (SR 1373) P NO. 11	FROM US 74 TO UNIONVILLE/INDIANTRAIL RD (SR 1367)	NO	NO	0.71 0.71	18	7,498		4,124 4,124		112 112	
2016CPT.10.58.20902	Union	12	JOHN BAKER (SR 1385)	NC 75 TO DEAD END	NO	NO	0.27	18	7,498 2,851		1,568		56	
	TOTAL	FOR MA	P NO. 12				0.27		2,851		1,568		56	
2016CPT.10.58.20902	Union TOTAL	13 FOR MA	OLD WAXHAW/MONROE RD (SR 1150) P NO. 13	FROM ROCKY RIVER RD (SR 1007) TO DOSTER RD (SR 1149)	NO	NO	2.03 2.03	18	21,437 21,437		11,790 11,790		182 182	
2016CPT.10.58.20902	Union TOTAL	14 FOR MA	PLEASANT GROVE RD (SR 1327) P NO. 14	FROM POTTERS RD (SR 1357) TO WAXHAW/INDIANTRAIL RD (SR 1008)	NO	NO	3.69 3.69	20	43,296 43,296		23,813 23,813		182 182	
2016CPT.10.58.20902	Union TOTAL	15 FOR MA	GROVER RODGERS RD (SR 1324) P NO. 15	FROM WAXHAW/INDIANTRAIL RD (SR 1008) TO THE DEAD END	NO	NO	0.97 0.97	20	11,381 11,381		6,260 6,260		56 56	
2016CPT.10.58.20902	Union	16	MCKNEELY RD (SR 1325)	FROM NC 75 TO WAXHAW/INDIANTRAIL RD (SR 1008)	NO	NO	1.93	18	20,381		11,209		182	
2016CPT.10.58.20902	TOTAL Union		P NO. 16 COLLINS RD (SR 1326)	FROM NC 75 TO MCKNEELY RD (SR 1325)	NO	NO	1.93 1.13	18	20,381 11,933		11,209 6,563		182 56	
2010011.10.00.20702			P NO. 17	TROUTE TO THE MEASURE (M. 1520)	110	110	1.13	10	11,933		6,563		56	
2016CPT.10.58.20902	Union TOTAL	18 FOR MA	HELMS RD (SR 1300) P NO. 18	FROM WAXHAW/MARVIN RD (SR 1301) TO NC 75	NO	NO	0.71 0.71	20	8,331 8,331		4,582 4,582		112 112	
2016CPT.10.58.20902	Union TOTAL	19 FOR MA	ADAMS RD (SR 1142) P NO. 19	FROM OLD WAXHAW/MONROE RD (SR 1111) TO THE DEAD END	NO	NO	0.4 0.4	18	4,224 4,224		2,323 2,323		56 56	
2016CPT.10.58.20902	Union TOTAL	20 FOR MA	ROBINSON RD (SR 1144) P NO. 20	FROM WESTERN SCHOOL RD (SR 1143) TO OLD WAXHAW/MONROE RD (SR 1111)	NO	NO	0.38 0.38	18	4,013 4,013		2,207 2,207		112 112	
2016CPT.10.58.20902	Union TOTAL	21 FOR MA	RAYMOND AUSTIN RD (SR 1330) P NO. 21	FROM PLEASANT GROVE RD (SR 1327) TO POTTERS RD (SR 1162)	NO	NO	0.33 0.33	18	3,485 3,485		1,917 1,917		56 56	
2016CPT.10.58.20902	Union TOTAL	22 FOR MA	ROSCOE HOWEY RD (SR 1332) P NO. 22	FROM POTTERS RD (SR 1162) TO NEW TOWN RD (SR 1315)	NO	NO	1.67 1.67	20	19,595 19,595		10,777 10,777		112 112	
2016CPT.10.58.20902	Union	23	FLETCHER BROOME RD (SR 1157)	FROM NEW TOWN RD (SR 1315) TO NC 200 SOUTH	NO	NO	2.84	20	33,323		18,327		214	
	TOTAL	FOR MA	P NO. 23	,			2.84		33,323		18,327		214	
2016CPT.10.58.20902			MCATEER RD (SR 1210) P NO. 24	FROM NC 75 TO THE DEAD END	NO	NO	0.41 0.41	18	4,330 4,330		2,381 2,381		56 56	
2016CPT.10.58.20902	Union TOTAL	25 FOR MA	ZEB HELMS RD (SR 1188) P NO. 25	FROM NC 75 TO CORINTH CH RD (SR 1158)	NO	NO	0.8	18	8,448 8,448		4,646 4,646		112 112	
2016CPT.10.58.20902	Union	26	LESTER DAVIS RD (SR 1339)	FROM NC 84 TO NEW TOWN RD (SR 1315)	NO	NO	1.47	20	17,248		9,486		112	
2016CPT.10.58.20902	Union	27	P NO. 26 DEAL RD (SR 1340)	FROM TWELVE MILE CREEK RD TO NC 84	NO	NO	1.47 0.87	20	17,248 10,208		9,486 5,614		112 112	
2016CPT.10.58.20902	Union	28	P NO. 27 BROOMES OLD MILL RD (SR 1320)	FROM NEW TOWN RD (SR 1315) TO THE DEAD END	NO	NO	0.87	18	10,208 6,970		5,614 3,833		112 112	
	TOTAL	FOR MA	P NO. 28		 		0.66		6,970		3,833		112	
2016CPT.10.58.20902	Union	29	UNDERWOOD RD (SR 1337)	FROM NC 84 TO WAXHAW/INDIANTRAIL RD (SR 1008)	NO	NO	0.84	18	8,870		4,879		112	
2016CPT.10.58.20902	Union	30	P NO. 29 WILLOUGHBY RD (SR 1334)	FROM NC 84 TO POTTERS RD (SR 1162)	NO	NO	0.84 2.02	20	8,870 23,701		4,879 13,036		112 182	
2016CPT.10.58.20902	TOTAL Union	FOR MA	P NO. 30 CLARENCE SECREST RD (SR 1333)	FROM NC 75 TO WILLOUGHBY RD (SR 1334)	NO	NO	2.02 2.13	18	23,701 22,493		13,036 12,371		182 88	
	TOTAL	FOR MA	P NO. 31	TROUTED TO HELDOCOLD'S RD (DR 1334)	110	110	2.13	10	22,493		12,371		88	
To			16CPT.10.58.20902				39.86	<u> </u>	409,555	33,323	251,577	20.00	3,602	1
	GR	AND TO	ΓAL				39.86		409,555	33,323	251,577	20.00	3,602	1





PROJ. REFERENCE NO. SHEET NO.



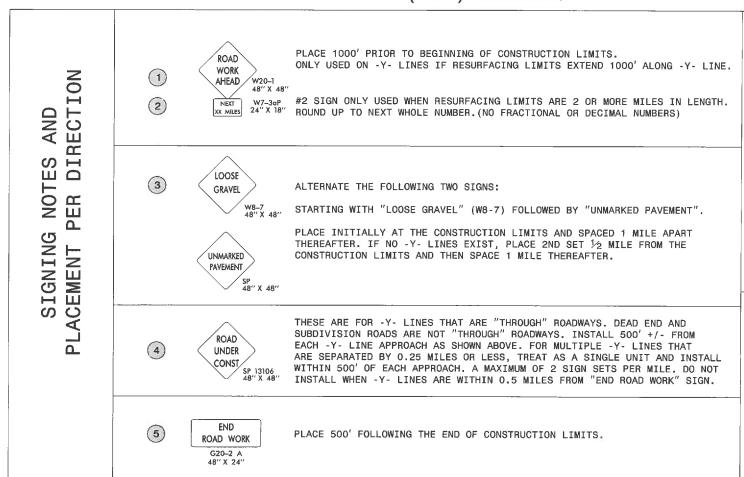
LEGEND

├─ STATIONARY SIGN

◆ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING



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.



ADVANCE WARNING SIGNS FOR ASPHALT SURFACE TREATMENTS 2 LANE ROADWAYS

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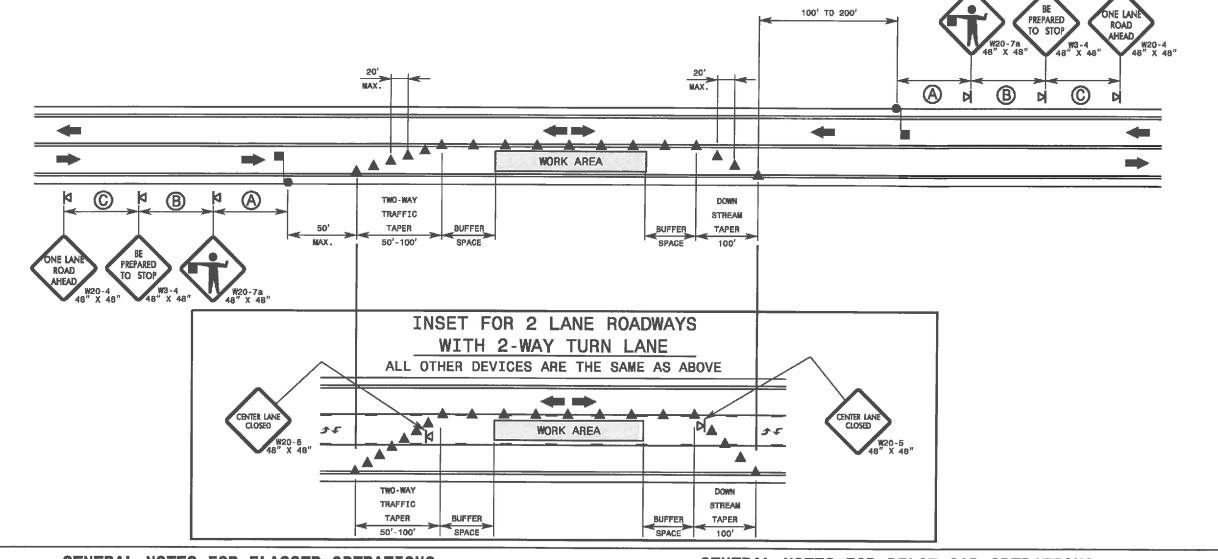
/22/2014 \\TMI\W7TC\ADDS\W0KK70F STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. 12

> N TEMPORARY **ENGLISH** STANDARD ANI RAWING 7

LANE, N -WAY ROADWAY **LOSURES** LANE FOR CLOSED

SHEET 1 OF 15

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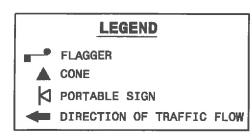


GENERAL NOTES FOR FLAGGER OPERATIONS

- 1- REFER TO STD. 1101.11 SHEET 4 FOR SIGN SPACING
- 2- 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.
- 4- PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO STD. 1101.11 SHEET 2).
- 6- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- DRUMS OR SKINNY-DRUMS MAY BE USED IN LIEU OF CONES. REFER TO ROADWAY STANDARD DRAWING 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 RECOMMEND THE USE OF LAW ENFORCEMENT.
- 9- REFER TO 2009 MUTCD, CHAPTER 6, 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. 10-

GENERAL NOTES FOR PILOT CAR OPERATIONS

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 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
- ${\tt MOUNT}$ SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
- NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING 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.



OF 15 1101.02

NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

DEPT

CLOSED

LANE

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ROADWAY

2-WAY

LANE,

2

CLOSURES

LANI

TEMPORARY

FOR

STANDARD DRAWING

ENGLISH