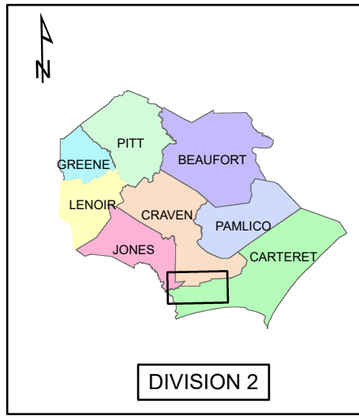


CARTERET & CRAVEN COUNTIES

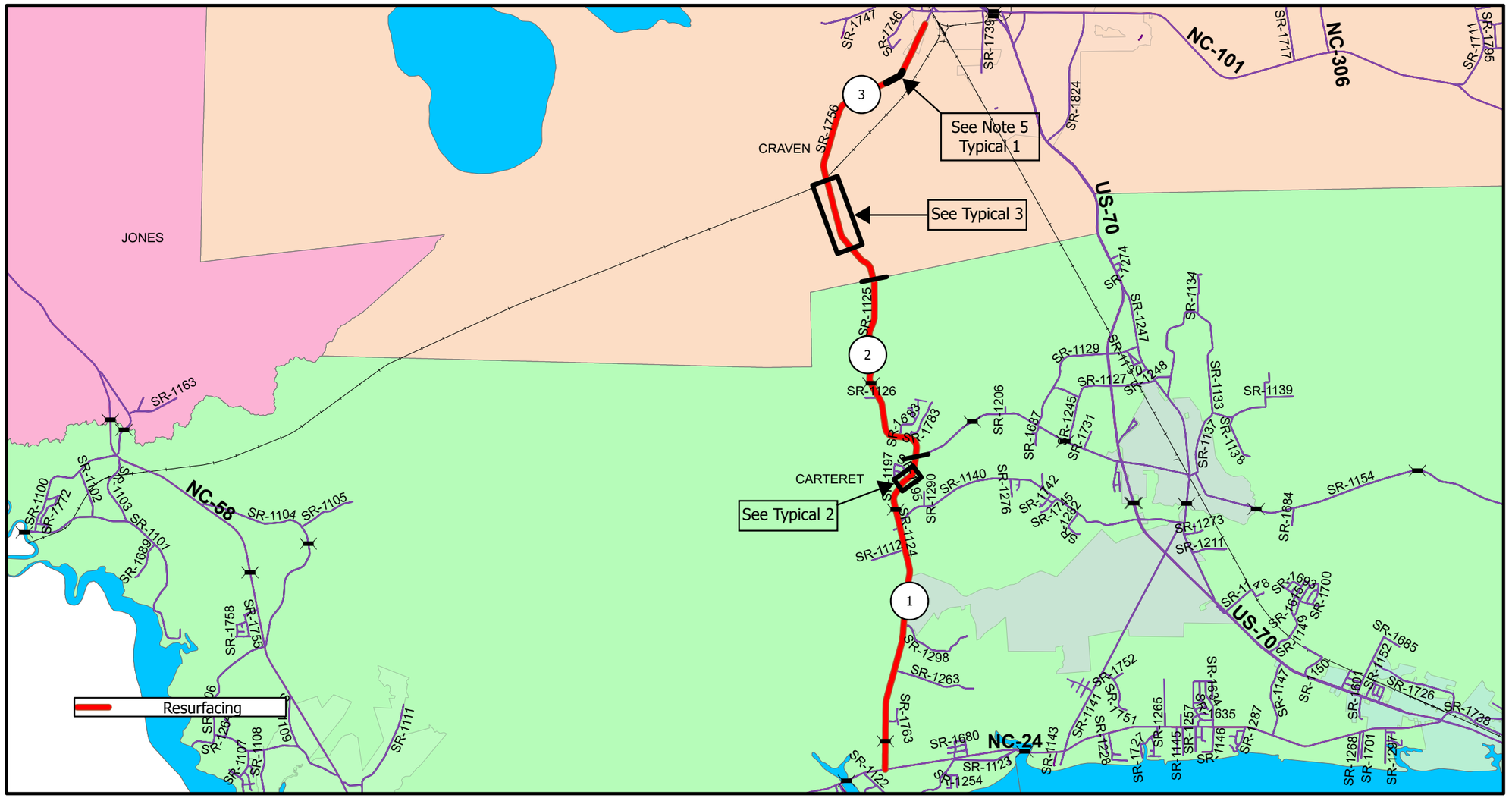
DB00635

PROJECT REFERENCE NO.	SHEET NO.
DB00635	1

WBS# 2027CPT.02.05.20161
2027CPT.02.05.20251

TYPE OF WORK : WIDENING, MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION

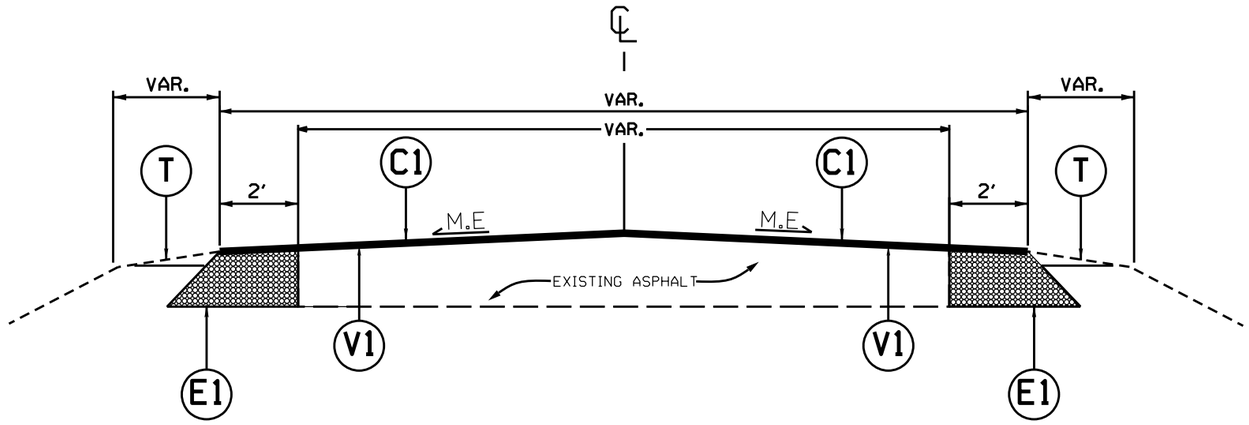
NCDOT
DIVISION 2



PROJECT REFERENCE NO.	SHEET NO.
DB00635	2

TYPICAL SECTION NO. 1

MAPS 1 (STA. 0+00 TO STA. 217+95) AND (STA. 223+45 TO STA. 235+20), 2, AND 3 (STA. 0+00 TO STA. 33+89) AND (STA. 87+05 TO STA. 237+11)



NOTE:

1. PLACE SYMMETRICAL WIDENING, INCLUDING INTERSECTIONS, AS DIRECTED BY THE ENGINEER. MAKE FLUSH WITH THE EXISTING ASPHALT.
2. MILL FULL WIDTH OF THE ENTIRE ROADWAY INCLUDING NEW WIDENING TO A DEPTH OF 1.5 INCHES, MILLING TO INCLUDE BOTH NCDOT AND CITY SIDE STREETS TO THE BACK OF THE RADIUS.
3. PLACE ASPHALT SURFACE COURSE TYPE S9.5B AT FULL WIDTH OF PAVEMENT, INCLUDING NEW WIDENING.
4. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.
5. DO NOT PAVE HAVELOCK BYPASS LIMITS FROM STA. 163+20 TO STA. 202+27

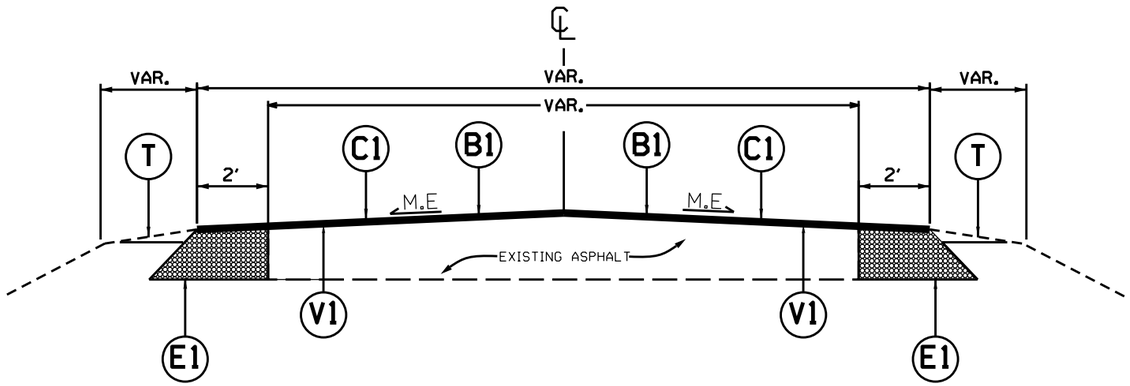
PAVEMENT SCHEDULE	
B1	PROP. APPROX. 3/4" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 AT AN AVERAGE RATE OF 90 LBS. PER SQ. YD.
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 684 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	MILLING DEPTH 1.5" FOR ENTIRE WIDTH OF THE ROADWAY, INCLUDING NEW WIDENING.
V2	INCIDENTAL MILLING.
DRAWINGS NOT TO SCALE	

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE NO.	SHEET NO.
DB00635	3

TYPICAL SECTION NO. 2

MAP 1 (STA. 217+95 TO STA. 223+45)



NOTE:

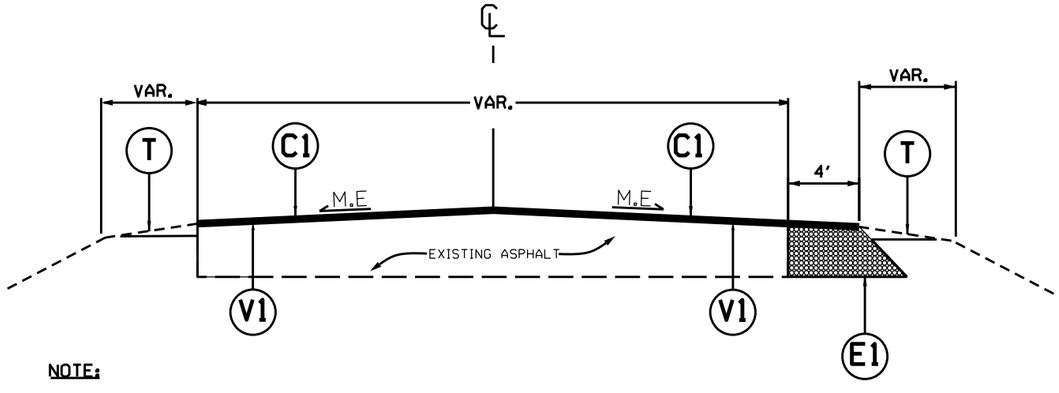
1. PLACE SYMMETRICAL WIDENING, INCLUDING INTERSECTIONS, AS DIRECTED BY THE ENGINEER. MAKE FLUSH WITH THE EXISTING ASPHALT.
2. MILL FULL WIDTH OF THE ENTIRE ROADWAY INCLUDING NEW WIDENING TO A DEPTH OF 1.5 INCHES, MILLING TO INCLUDE BOTH NCDOT AND CITY SIDE STREETS TO THE BACK OF THE RADIUS.
3. PLACE ASPHALT SURFACE COURSE TYPE S9.5B AT FULL WIDTH OF PAVEMENT, INCLUDING NEW WIDENING.
4. PLACE OPEN-GRADED ASPHALT FRICTION COURSE TYPE FC-1 AT FULL WIDTH OF PAVEMENT, INCLUDING NEW WIDENING.
5. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 3/4" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 AT AN AVERAGE RATE OF 90 LBS. PER SQ. YD.
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 684 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	MILLING DEPTH 1.5" FOR ENTIRE WIDTH OF THE ROADWAY, INCLUDING NEW WIDENING.
V2	INCIDENTAL MILLING.
DRAWINGS NOT TO SCALE	

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

TYPICAL SECTION NO. 3

MAP 3 (STA. 33+89 TO STA. 87+05 ~ RR TRACKS)



NOTE:

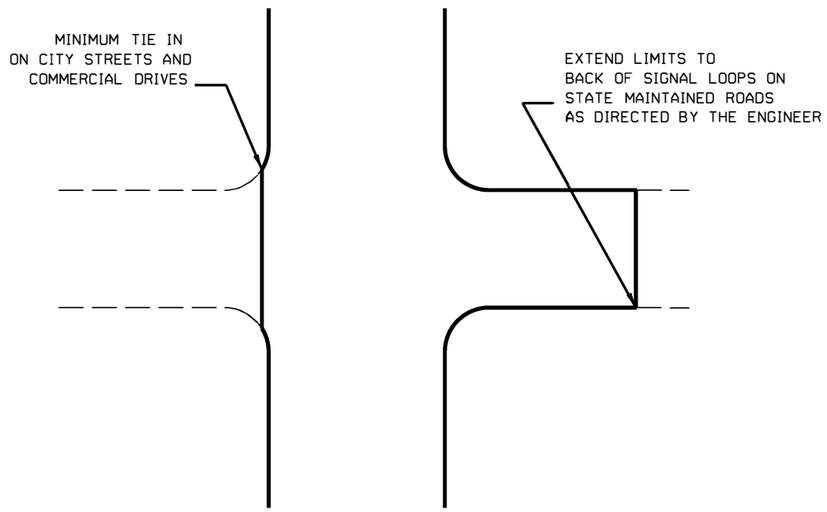
1. PLACE ASYMMETRICAL WIDENING, INCLUDING INTERSECTIONS, AS DIRECTED BY THE ENGINEER. MAKE FLUSH WITH THE EXISTING ASPHALT.
2. MILL FULL WIDTH OF THE ENTIRE ROADWAY INCLUDING NEW WIDENING TO A DEPTH OF 1.5 INCHES, MILLING TO INCLUDE BOTH NCDOT AND CITY SIDE STREETS TO THE BACK OF THE RADIUS.
3. PLACE ASPHALT SURFACE COURSE TYPE S9.5B AT FULL WIDTH OF PAVEMENT, INCLUDING NEW WIDENING.
4. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00635	4	

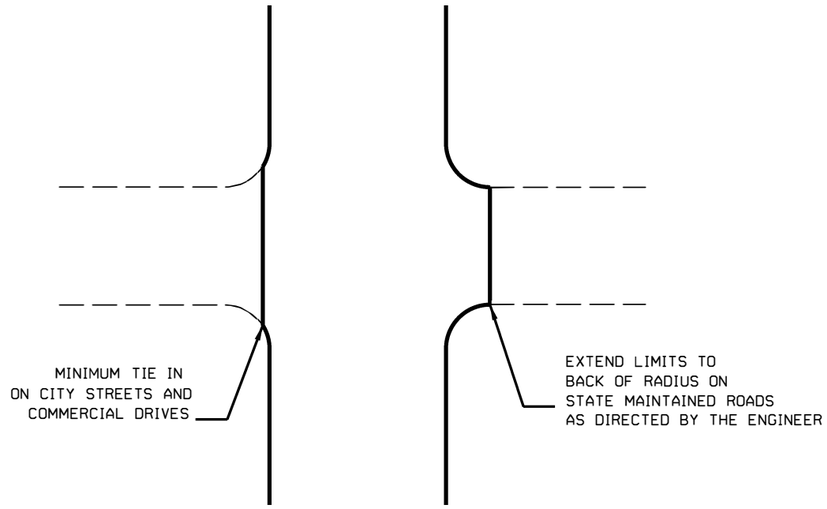
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	HAULING NCDOT SUPPLIED SHOULDER MATERIAL	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1.5" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OGAFC, TYPE FC-1 MOD	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	WORK ZONE ADVANCE/ GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL
								MI	FT	EA	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	TONS	LF	LF	AC	EA	SF	LS
2027CPT.02.05.20161	Carteret	1	SR-1124 / NINE MILE RD	FROM NC 24 TO SR 1124 NINE FOOT RD	1&2	2	2WU	4.45	23	178	223	8.90	74,650	4,380	3,754	6,647	601	5	73	712	100	4.45	1	500	0.37
TOTAL FOR MAP NO. 1								**4.45**		**178**	**223**	**8.90**	**74,650**	**4,380**	**3,754**	**6,647**	**601**	**5**	**73**	**712**	**100**	**4.45**	**1**	**500**	**0.37**
2027CPT.02.05.20161	Carteret	2	SR-1125 / LAKE RD	FROM SR 1124 NINE FOOT RD TO CRAVEN COUNTY	1	2	2WU	2.93	25	117	147	5.86	47,835	795	2,467	4,090	377			469	100	2.93	1	330	0.25
TOTAL FOR MAP NO. 2								**2.93**		**117**	**147**	**5.86**	**47,835**	**795**	**2,467**	**4,090**	**377**			**469**	**100**	**2.93**	**1**	**330**	**0.25**
TOTAL FOR PROJ NO. 2027CPT.02.05.20161								**7.38**		**295**	**370**	**14.76**	**122,485**	**5,175**	**6,221**	**10,737**	**978**	**5**	**73**	**1,181**	**200**	**7.38**	**2**	**830**	**0.62**
2027CPT.02.05.20251	Craven	3	SR-1756 / LAKE RD	FROM CARTERET COUNTY TO PONY CT (PRIVATE RD)	1&3	2	2WU	3.75	21	150	188	7.50	57,565		3,161	4,842	457			600	100	3.75	1	505	0.38
TOTAL FOR PROJ NO. 2027CPT.02.05.20251								**3.75**		**150**	**188**	**7.50**	**57,565**		**3,161**	**4,842**	**457**			**600**	**100**	**3.75**	**1**	**505**	**0.38**
GRAND TOTAL								**11.13**		**445**	**558**	**22.26**	**180,050**	**5,175**	**9,382**	**15,579**	**1,435**	**5**	**73**	**1,781**	**300**	**11.13**	**3**	**1,335**	**1**

PROJECT REFERENCE NO.	SHEET NO.
DB00635	5



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

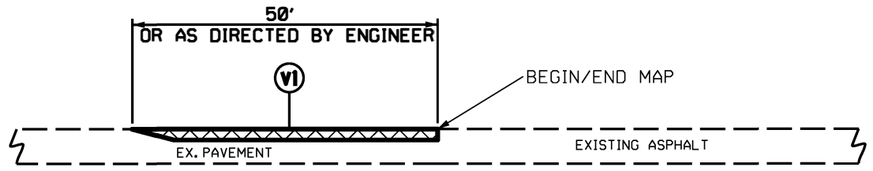
ADDITIONAL INTERSECTIONS (NON-TYPICAL)

Extend paving limits to back of radius or loop on the following intersections:

MAP#	STREET NAME	COMMENTS
1	ROLLINGWOOD DR	PAVE TO BACK OF RADIUS
1	SR 1762 CROATAN COLONY DR	PAVE TO JOINT APPROX. 80' FROM -L-
1	SR 1263 SAM HATCHER RD	PAVE ENTIRE APRON
1	SR 1298 GALES CREEK RD	PAVE TO BACK OF RADIUS
1	SR 1112 MILLIS RD	PAVE TO JOINT APPROX. 49' FROM -L-
1	SR 1199 SOUTHWEST DR	PAVE TO BACK OF RADIUS
1	SR 1140 ROBERTS RD	PAVE TO JOINT APPROX. 82' FROM -L-
1	SR 1195 BUR OAKS BLVD	PAVE TO NOSE OF ISLAND
1	SR 1125 NINE FOOT RD	PAVE ENTIRE SLIP LANE
1	SR 1125 NINE FOOT RD	PAVE TO END OF SLIP LANE 265' FROM -L-
2	SR 1783 LAKEWOOD DR	PAVE TO JOINT APPROX. 48' FROM -L-
2	SR 1683 BOBBYS DR	PAVE TO JOINT APPROX. 41' FROM -L-
2	SR 1126 SLAUGHTER RD	PAVE TO JOINT APPROX. 82' FROM -L-

PROJECT REFERENCE NO.	SHEET NO.
DB00635	DIV2-1

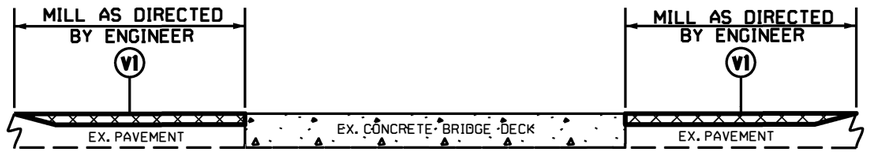
MILLING TYPICALS



DETAIL 1
BEGIN/END MAP TIE-IN

NOTE:

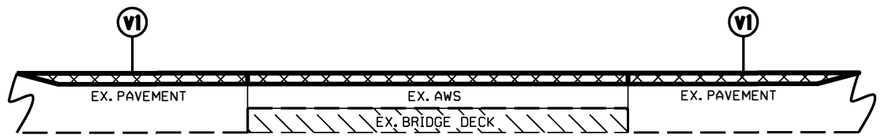
1. MILLING SHALL BE PERFORMED AT MAIN LINE TIE-INS AND Y-LINE TIE-INS AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



DETAIL 2
BRIDGE MILLING

NOTE:

1. MILLING SHALL BE PERFORMED AT THE BRIDGE APPROACHES AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.

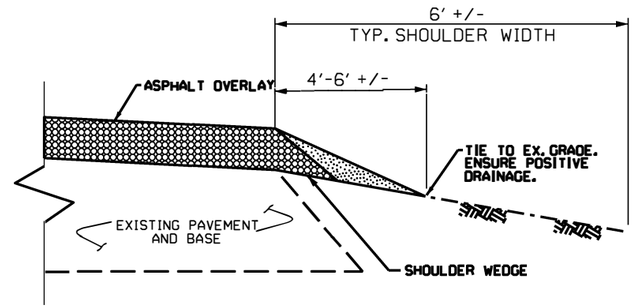


DETAIL 3
BRIDGE MILLING

NOTE:

1. INCLUDES MILLING FOR THE ENTIRE WIDTH OF THE BRIDGE WEARING SURFACE, AS DIRECTED BY THE ENGINEER.

SHOULDER RECONSTRUCTION TYPICAL



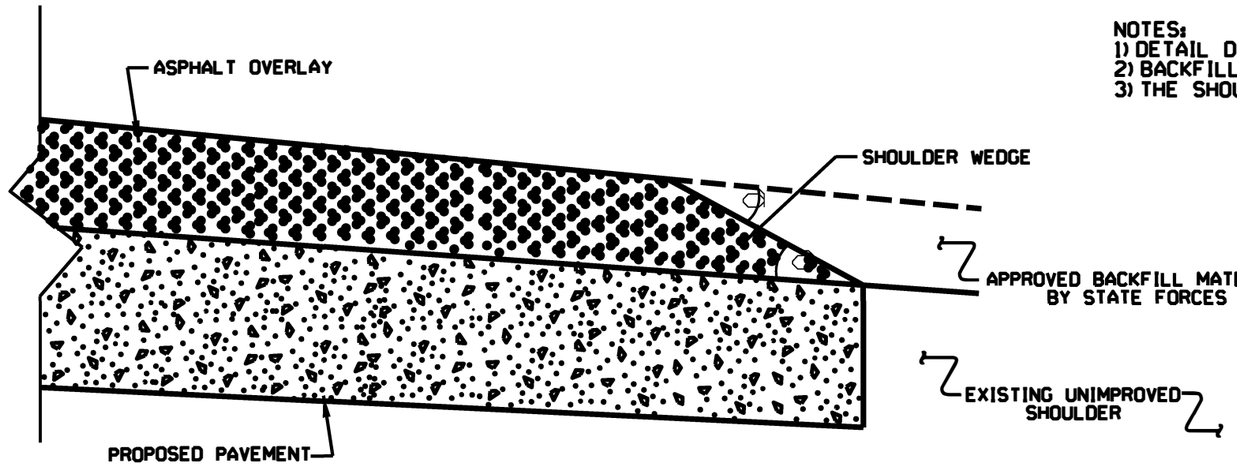
SHOULDER RECONSTRUCTION DETAIL

NOTE:

1. SHOULDERS SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM THE ROADWAY.
2. A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.
3. REQUIRED BORROW MATERIAL MAY BE OBTAINED FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

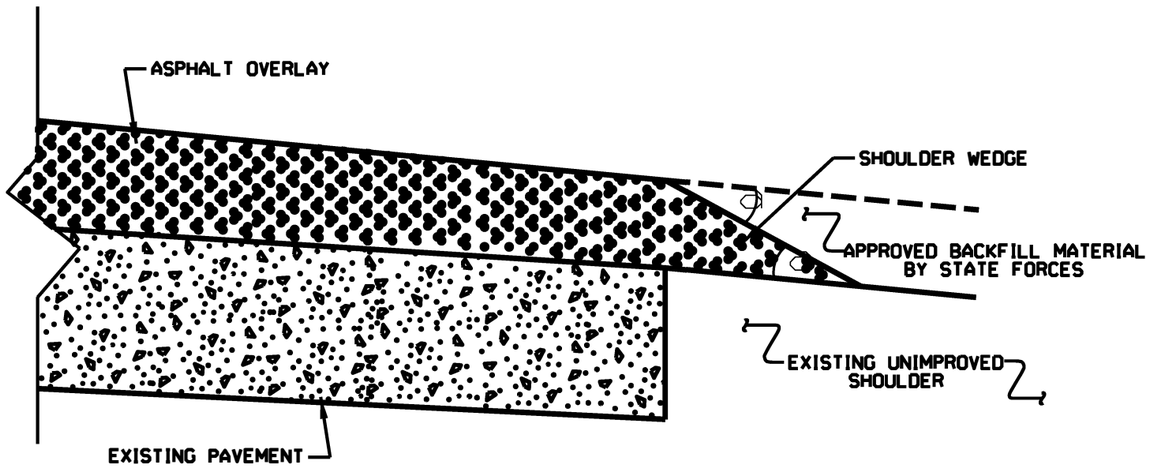
PROJECT REFERENCE NO.	SHEET NO.
DB00635	DIV2-2

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.



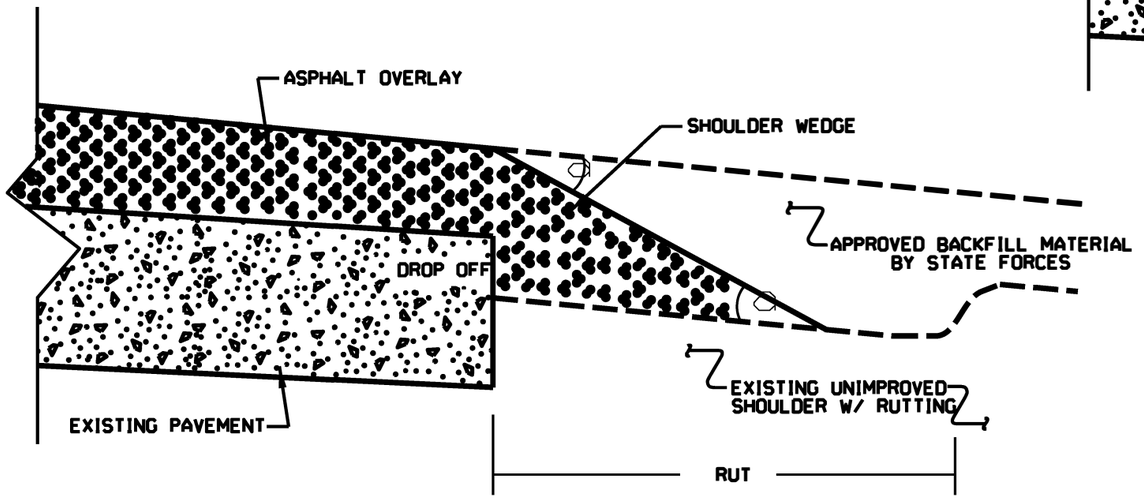
SHOULDER WEDGE DETAIL

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



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

SHOULDER WEDGE DETAILS

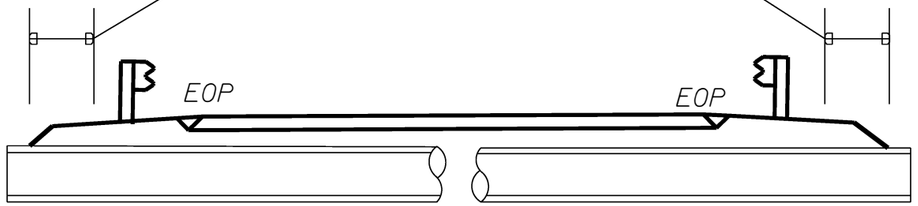
PROJECT REFERENCE NO.	SHEET NO.
DB00635	EC-1

EROSION CONTROL DETAIL

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

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

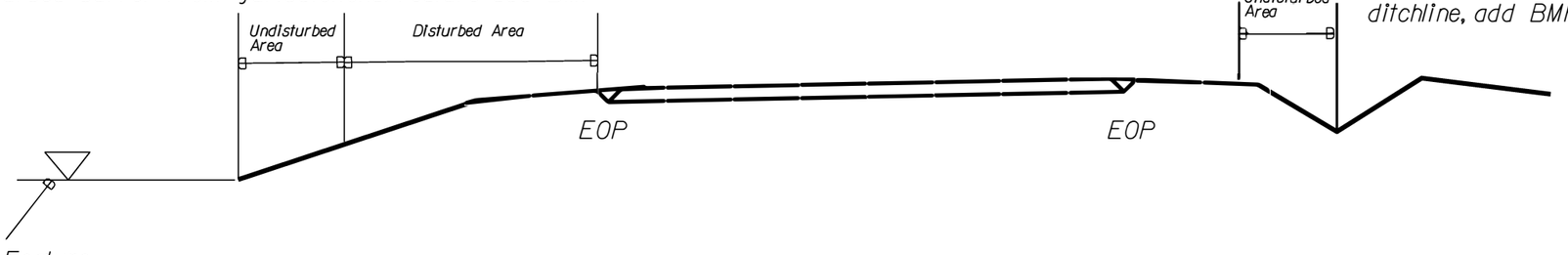
< 5' - 10' Undisturbed buffer add BMP



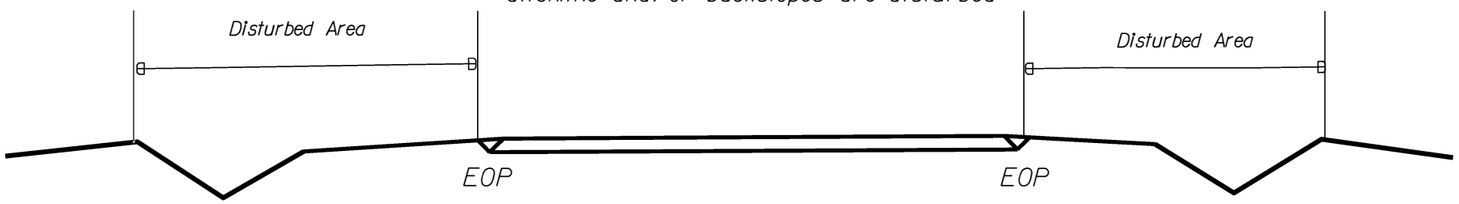
Pipe/Culvert

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

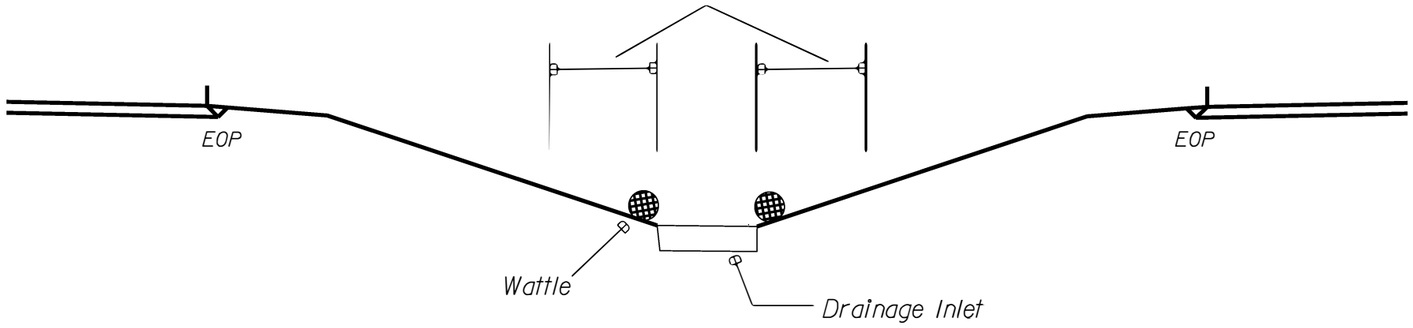
< 5' - 10' Undisturbed buffer from ditchline, add BMP



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



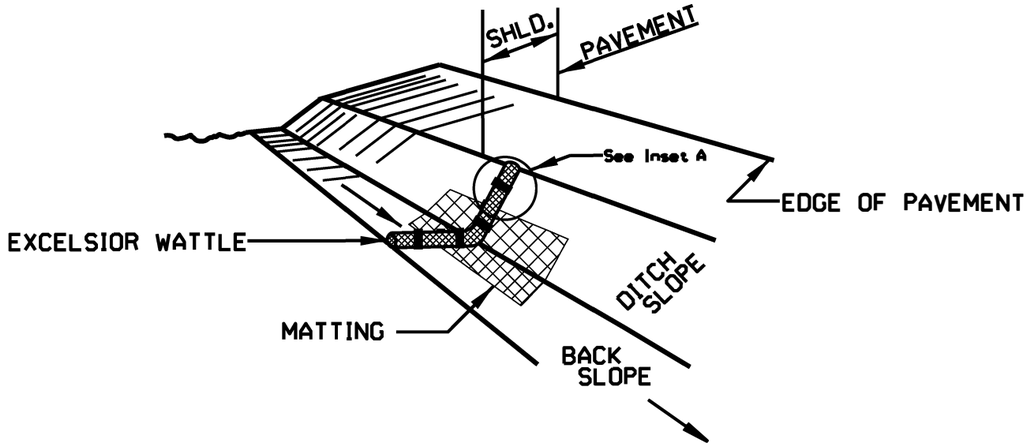
< 5' - 10' Undisturbed buffer from inlet, add wattle



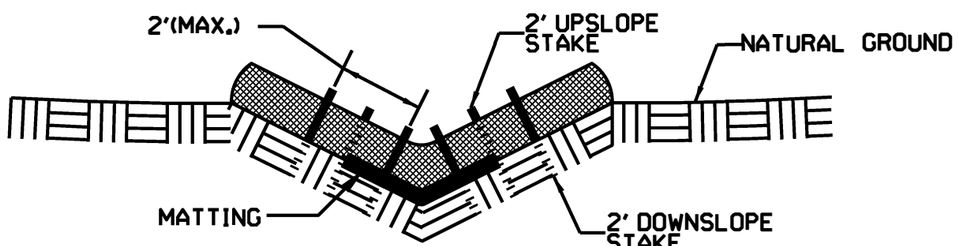
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
DB00635	EC-2

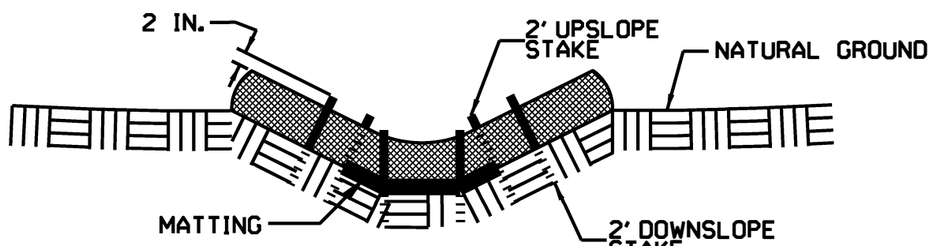
WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION
VEE DITCH



CROSS SECTION
TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

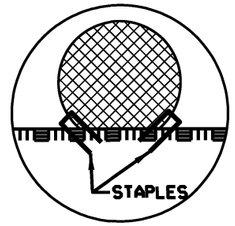
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

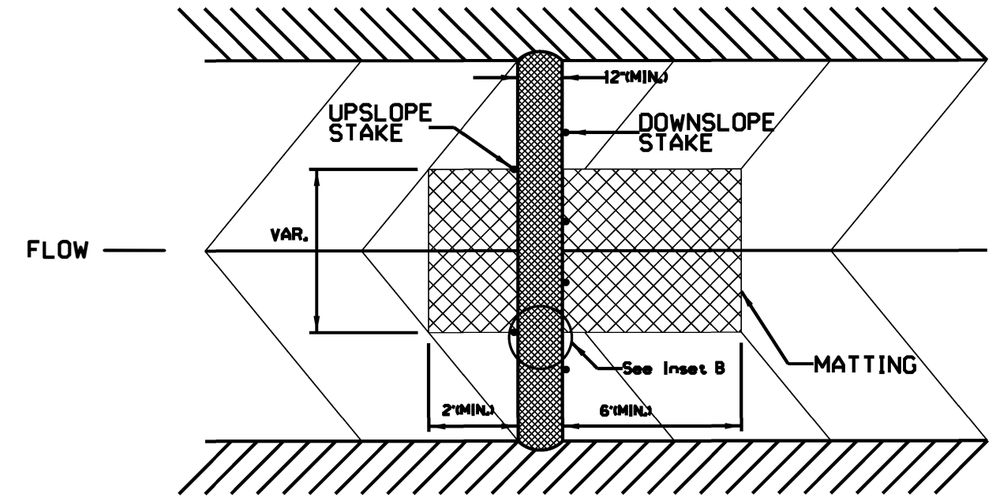
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B

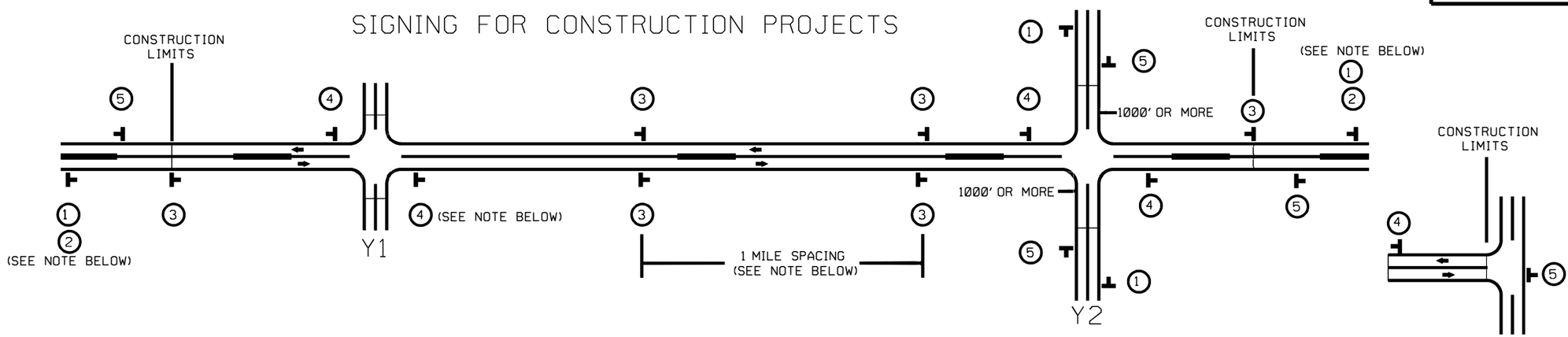


TOP VIEW

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
DB00635	TCP-1

SIGNING FOR CONSTRUCTION PROJECTS



LEGEND
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1	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.
2	NEXT XX MILES W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)
3	LOW/SOFT SHOULDER SP,13107 48" X 48"	- 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.
4	ROAD UNDER CONST SP,13106 48" X 48"	- 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.
5	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.

-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.

ROAD WORK AHEAD W20-1 48" X 48"

PLACED 500' IN ADVANCE OF FLAGGER.

W20-7 A 48" X 48"

PLACED 250' IN ADVANCE OF FLAGGER.

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

CONSTRUCTION PROJECTS
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS