

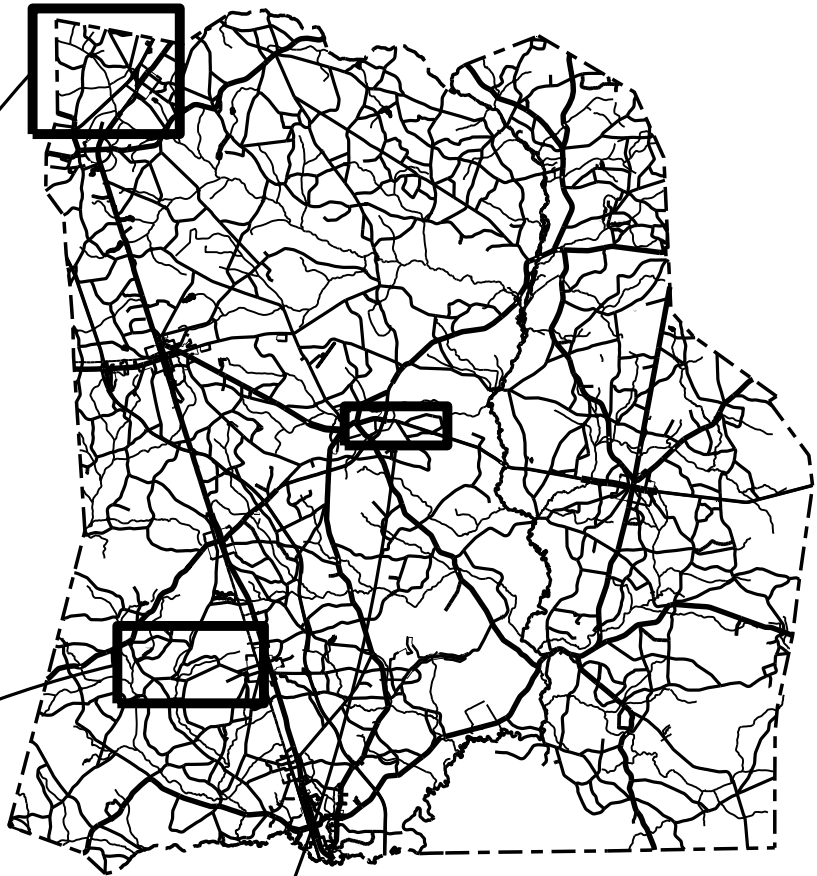
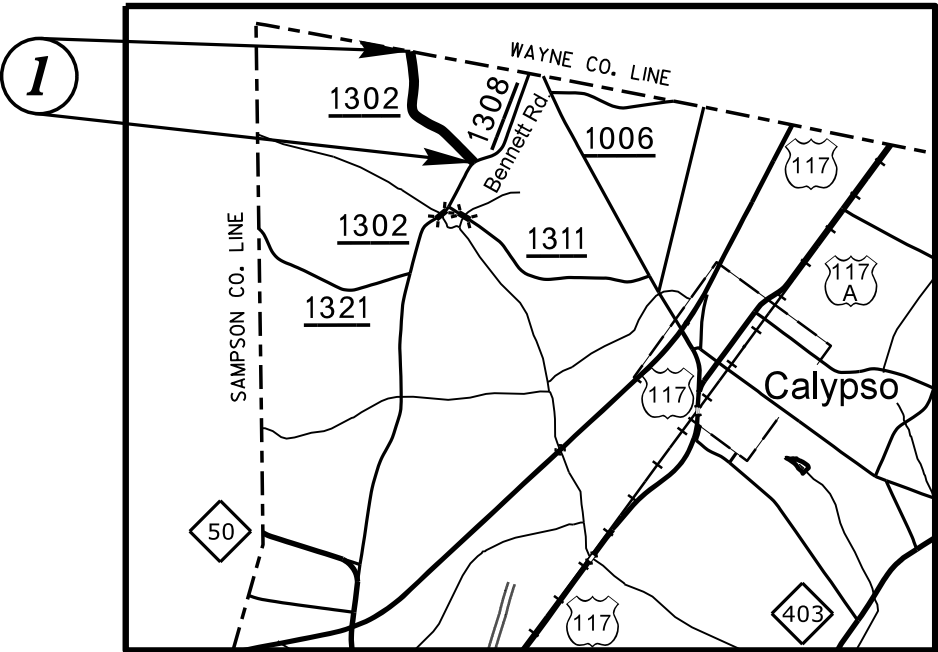
DUPLIN COUNTY

LOCATION: 3 SECTIONS OF SECONDARY ROADS
TYPE OF WORK: RESURFACING & PAVEMENT MARKINGS, ETC.

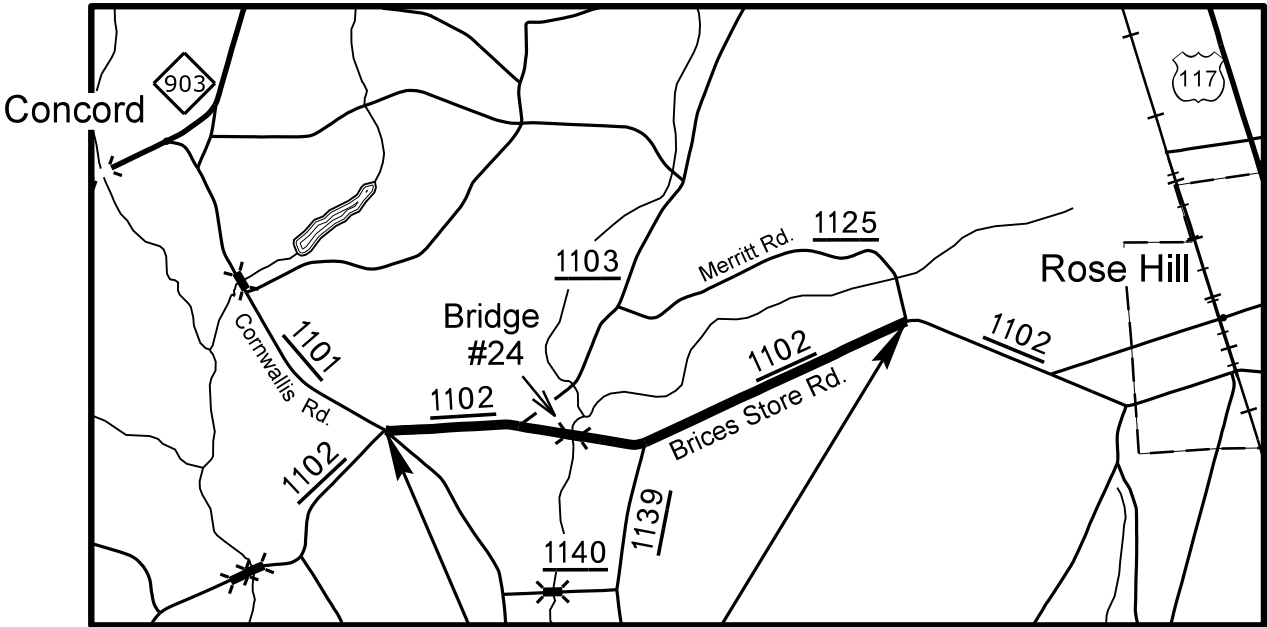


INDEX OF SHEETS	
SHEET NO.	SHEET
1	INDEX OF SHEETS & TITLE SHEET
2 - 8	PAVEMENT SCHEDULE, TYPICAL SECTIONS & DETAIL SHEETS
9 - 11	SUMMARY OF QUANTITIES
12	TRAFFIC CONTROL DETAIL

SR 1302
Robert F.
Hargrove Rd.

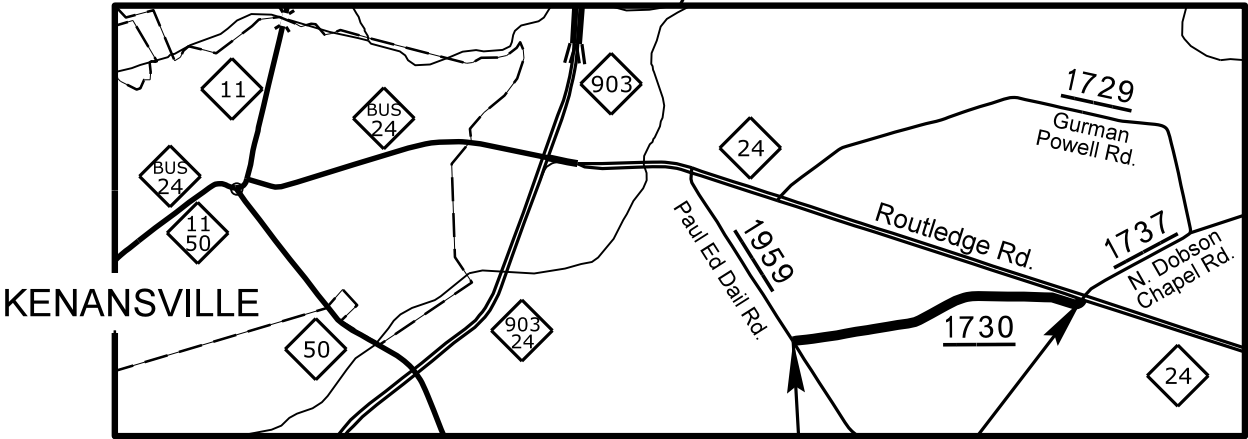


DUPLIN
COUNTY



SR 1102
Brices
Store Rd.

2



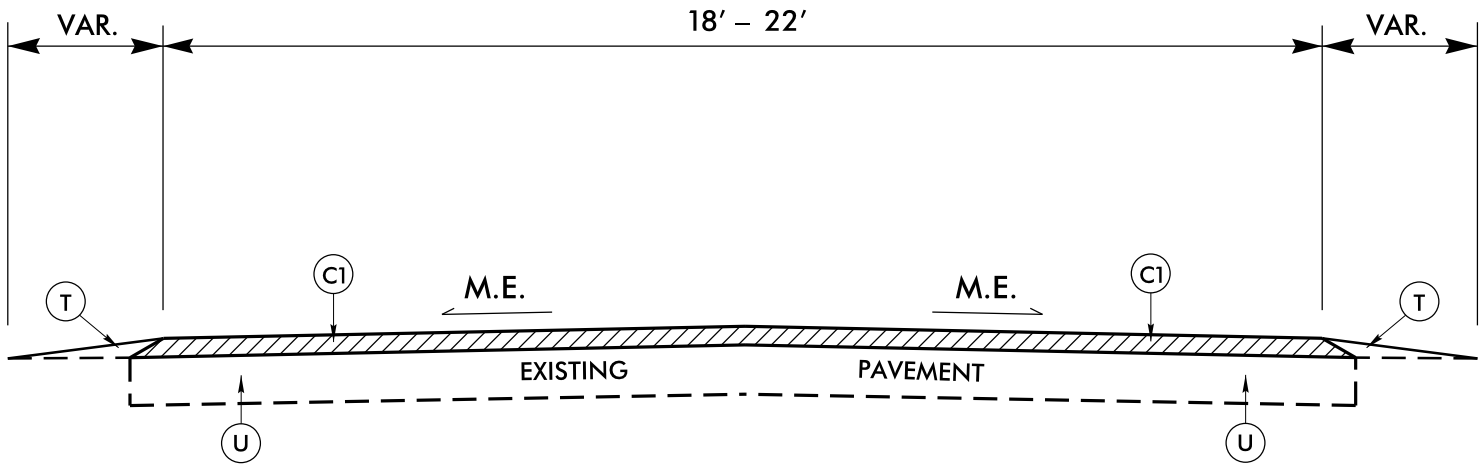
SR 1730
Farrior
School Rd.

3

MAPS N.T.S.

REVISIONS

24-JAN-2016 12:08
S:\Division\Resurfacing\Resurfacing Data\2016
Resurfacing\Duplin County\Additional Funds\2016CPT.03.36.20311\2016CPT.03.36.20311_1.SHDgn
\$\$\$\$\$USERNAME\$\$\$\$\$



TYPICAL SECTION NO. 1

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
T	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT

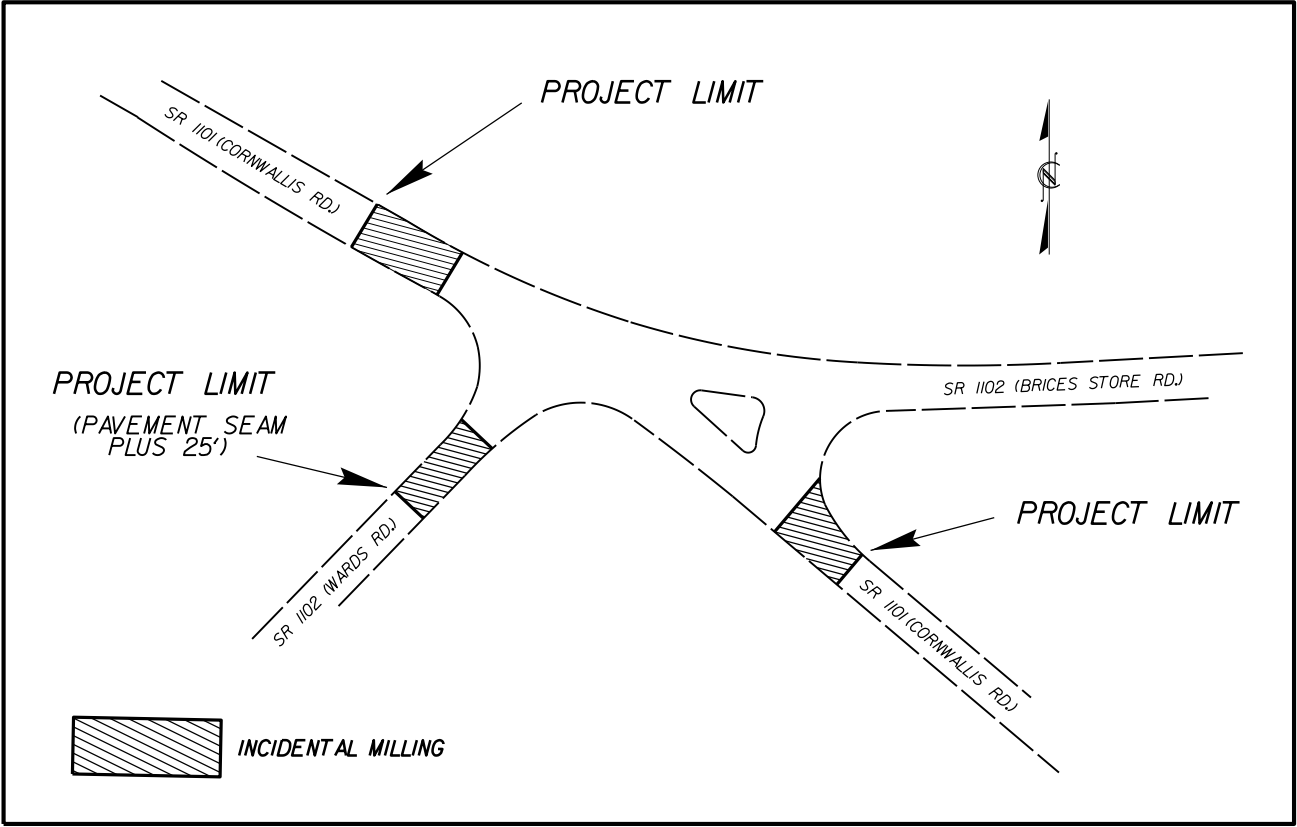
PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

SEE STD. DRAWING 1205.01, SHEET 2 OF 2, TABLE 1 FOR EDGE LINE OFFSETS.

MAP NO. 1
SR 1302 (ROBERT F. HARGROVE RD.)
MP 3.148 – MP 4.138

MAP NO. 3
SR 1730 (FARRIOR SCHOOL RD.)
MP 0.000 – MP 1.054

MAP NO. 2
SR 1102 (BRICES STORE RD.)
MP 7.559 – MP 10.219
(NO WORK DUPLIN BRIDGE #24
MP 9.272 – MP 9.357)

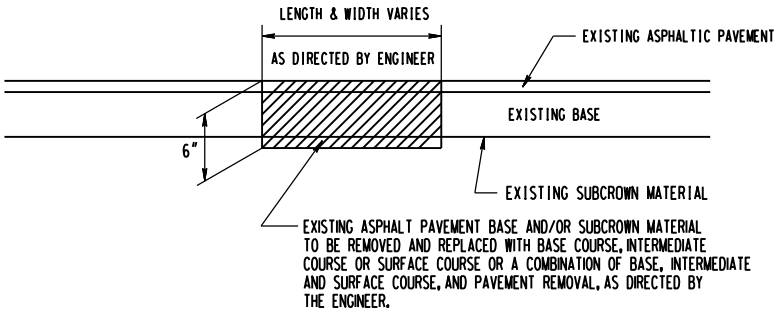


MAP 2 – SR 1102 (BRICES STORE RD.) INTERSECTION DETAIL

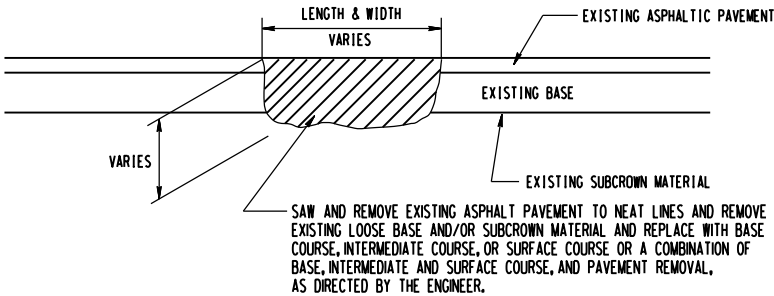
REVISIONS

25-JAN-2016 09:30 S:\Division\Resurfacing\Resurfacing Data\2016 Resurfacing\Duplin County\Additional Funds\2016CPT.03.36.20311\2016CPT.03.36.20311_TYP.dgn

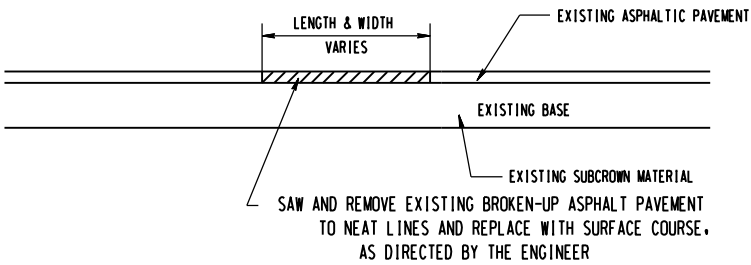
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR
TO RESURFACING FOR FULL DEPTH AND MILLING



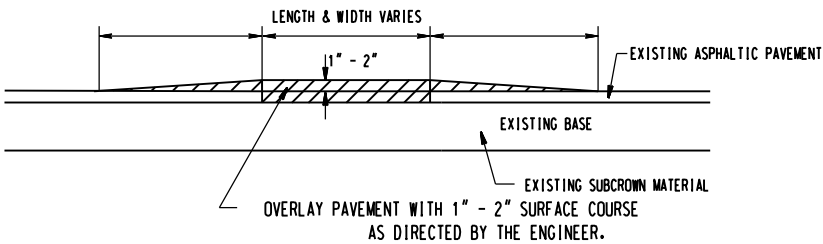
DETAIL NO. 1



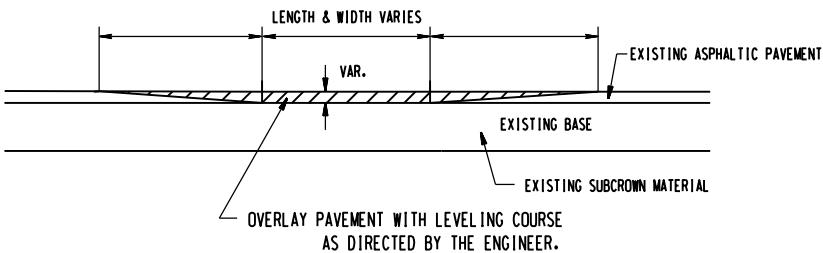
DETAIL NO. 2



DETAIL NO. 3



DETAIL NO. 4



DETAIL NO. 5

REVISIONS

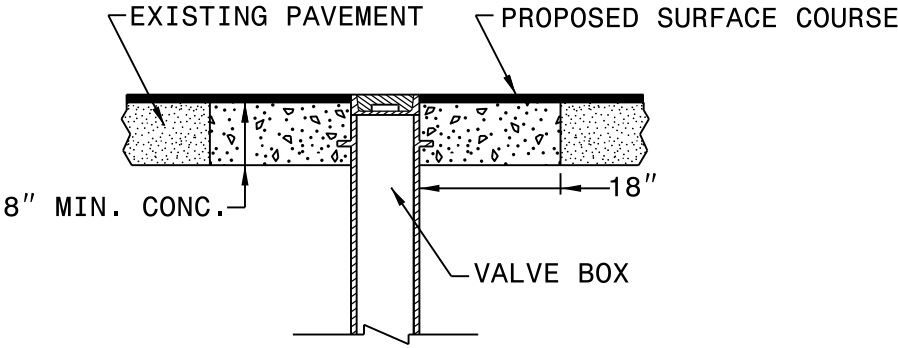
20-APP-2015-1155
F:\Users\jmkim\OneDrive\Documents\DETAIL_PSHS\Microsoft\Files\3CR.20711.173_Patch.dgn
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STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

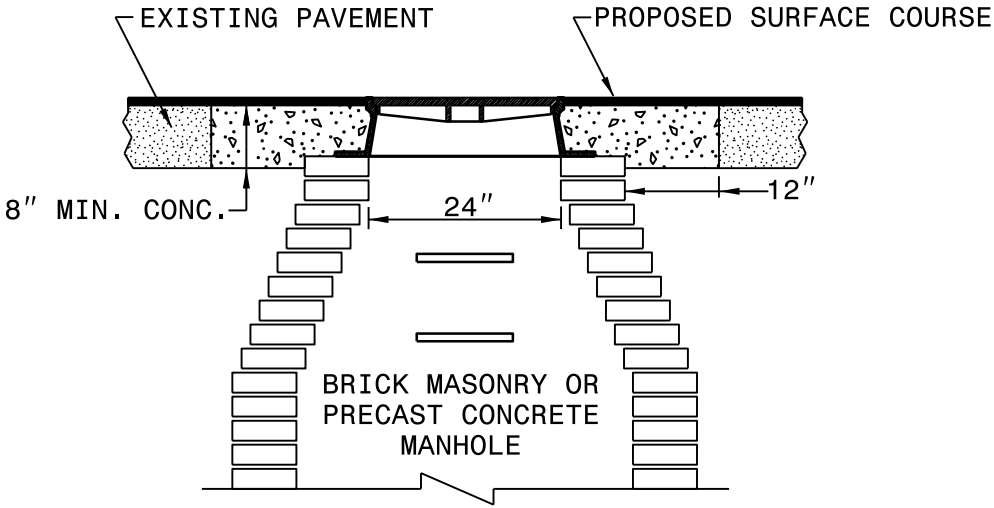
ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

SHEET 1 OF 1
840D55

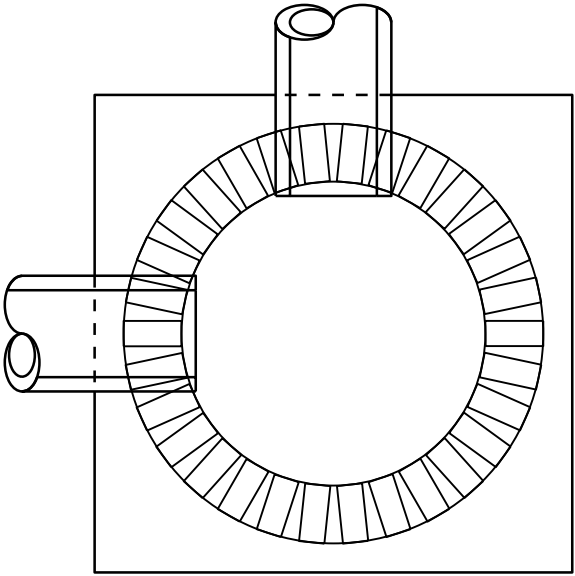
- GENERAL NOTES:
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
 2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
 3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
 4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
 5. MIX MORTAR TO NCDOT SPECIFICATIONS.
 6. MORTAR JOINTS $\frac{1}{2}$ " +/- $\frac{1}{8}$ "
 7. CONSTRUCT AN ASPHALT RAMP IN ACCORDANCE WITH SECTION 858-3 OF THE 2012 STANDARD SPECIFICATIONS.



VALVE BOX CONCRETE ENCASEMENT



MANHOLE CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

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

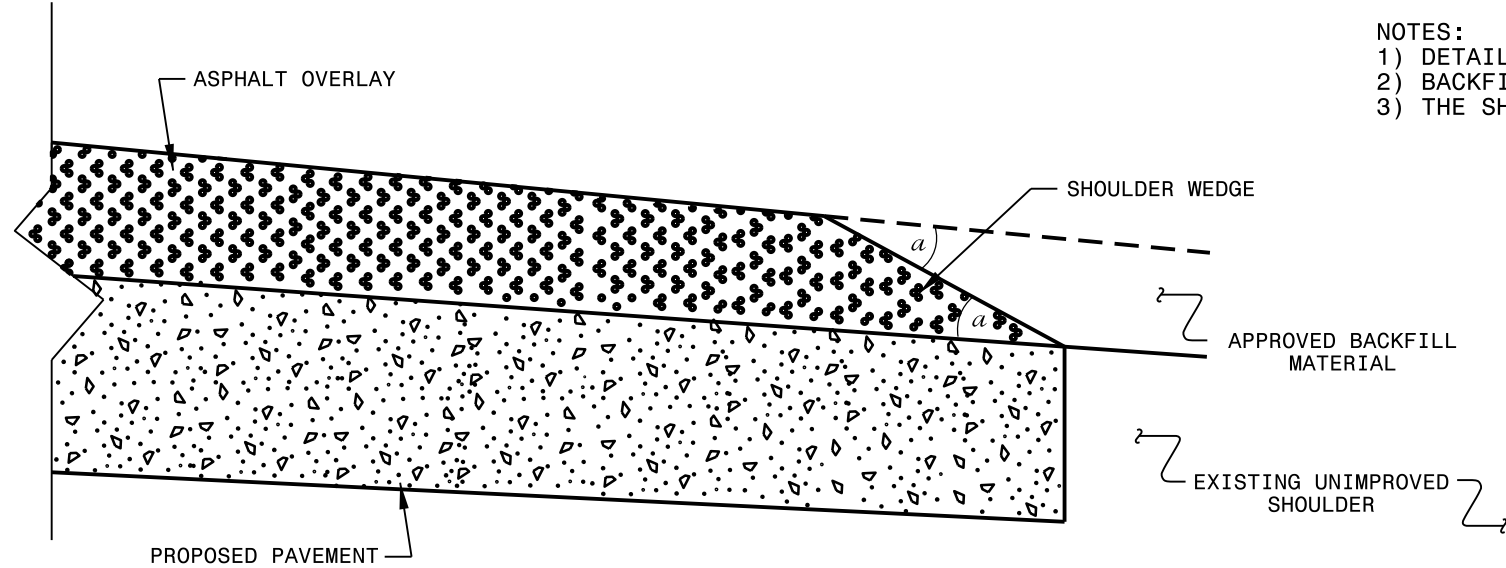
ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

SHEET 1 OF 1
840D55

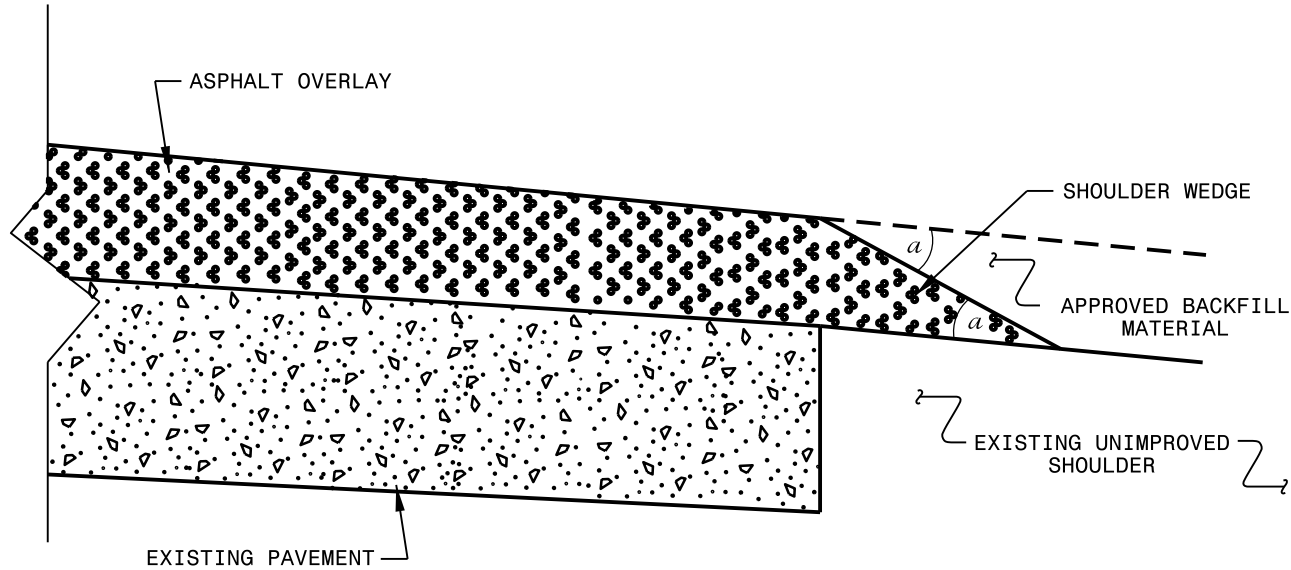
REVISIONS

24-JAN-2016 13:31 C:\Users\jokimmel\Desktop\DETAIL_PSHS\Microsoft\Files\MH_Valve_Adjust_2015.dgn \$\$\$\$USERNAME\$\$\$\$

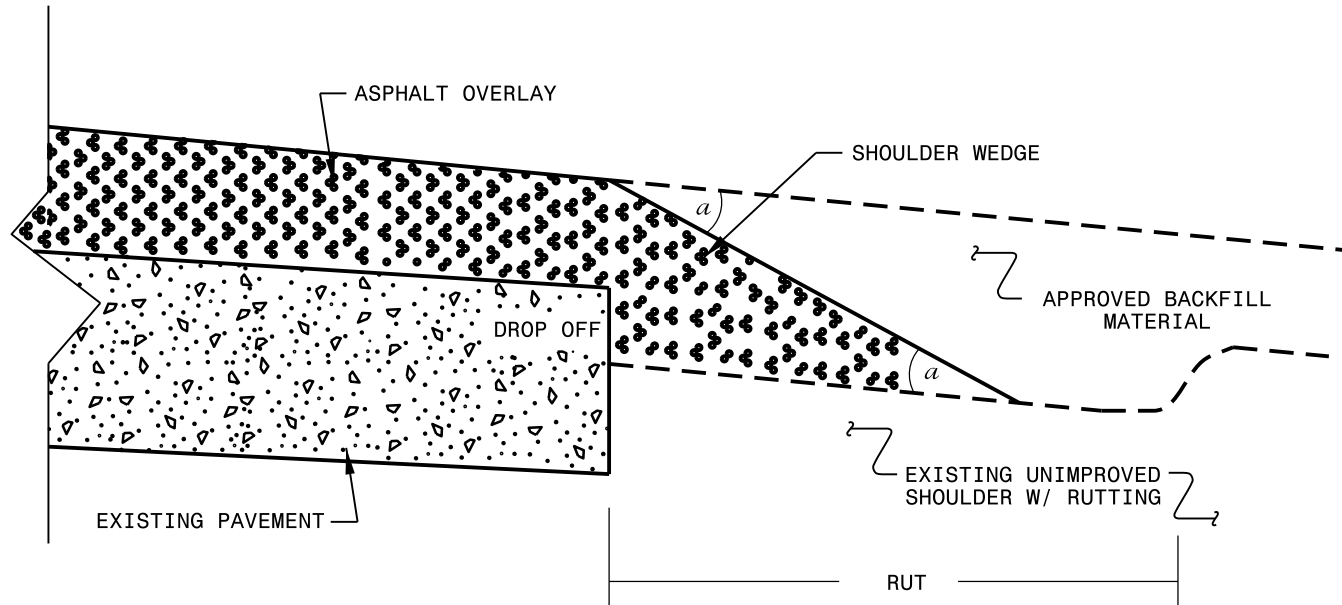
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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)

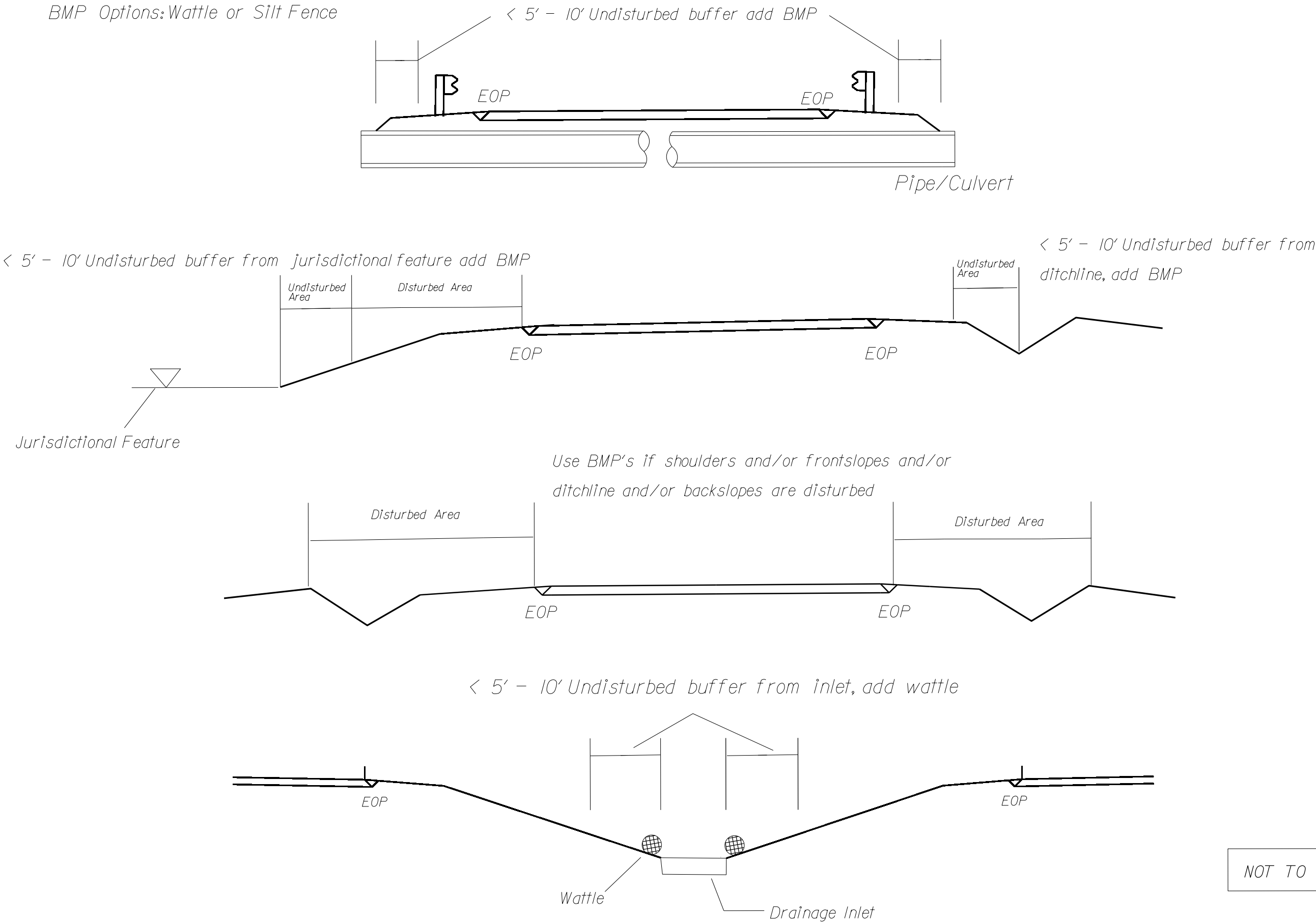
- SHOULDER WEDGE ANGLE = 30°

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:\user\details\stand\shoulderwedgedetail.dgn		

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

BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL



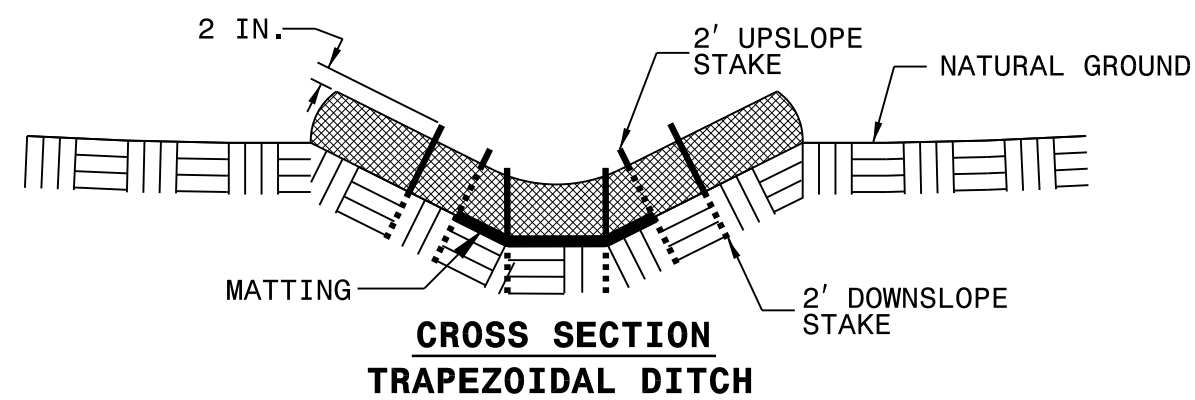
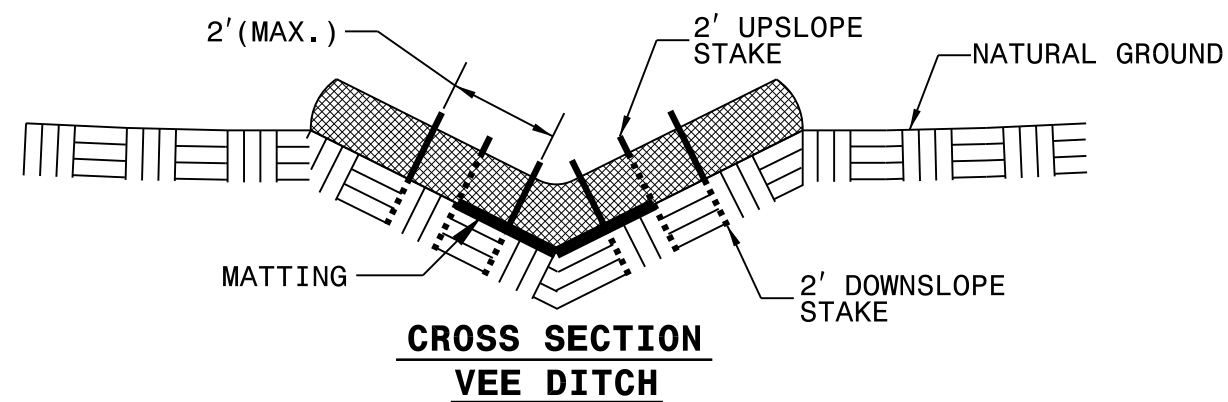
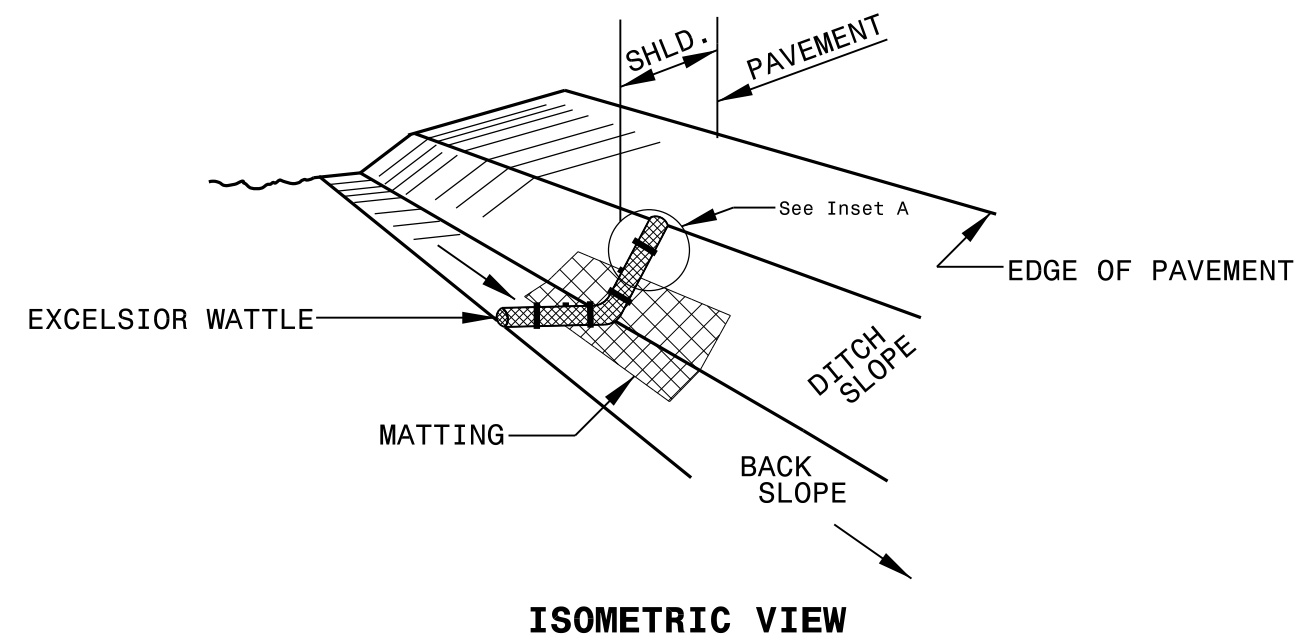
NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

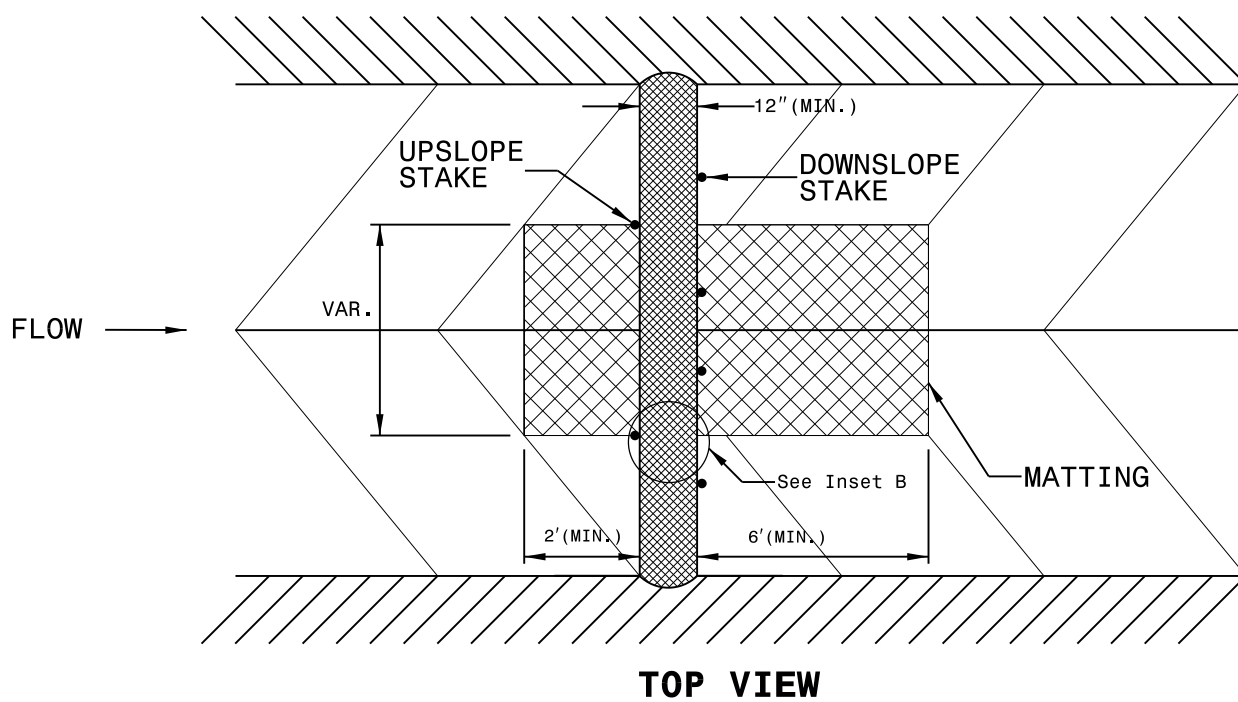
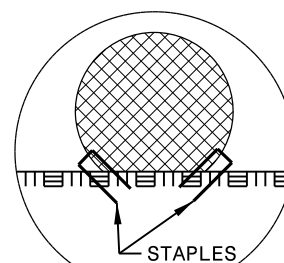
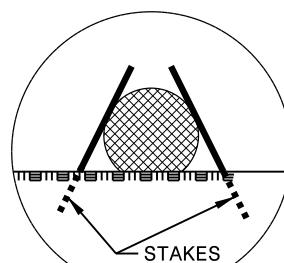
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.



PROJECT NO.	SHEET NO.
2016CPT.03.36.20311	9

SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BORROW EXC.	INC. STONE BASE	SHOULDER RECONST.	INC. MILLING	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT (MILL) GENERIC	PATCHING EXISTING PAVEMENT (FULL DEPTH) GENERIC	ADJ. OF METER OR VALVE BOX	TEMP. SILT FENCE	STONE FOR EC CLASS B	SEDIMENT CONTROL STONE
NO		NO			NO					MI	FT	CY	TONS	SMI	SY	TONS	TONS	TON	TON	TON	EA	LF	TON	TON
2016CPT.03.36.20311	DUPLIN	1	SR 1302 (ROBERT F. HARGROVE RD.)	FROM SR 1308 (BENNETT RD.) TO WAYNE COUNTY [MP 3.148 TO MP 4.138]	1	2	2WU	NO	NO	0.99	18	182	10	1.98	365	928	15	57	10		1	99	25	25
TOTAL FOR MAP NO. 1										0.99		182	10	1.98	365	928	15	57	10		1	99	25	25
2016CPT.03.36.20311	DUPLIN	2	SR 1102 (BRICES STORE RD.)	FROM SR 1125 (MERRITT RD.) TO SR 1101 (CORNWALLIS RD.) MP 7.559 TO MP 10.219	1	2	2WU	NO	NO	2.66	22	244	25	5.32	1,684	3,045	20	184	50	5	1	266	67	67
TOTAL FOR MAP NO. 2										2.66		244	25	5.32	1,684	3,045	20	184	50	5	1	266	67	67
2016CPT.03.36.20311	DUPLIN	3	SR 1730 (FARRIOR SCHOOL RD.)	FROM SR 1959 (PAUL ED DAIL RD.) TO NC 24 [MP 0.000 TO MP 1.054]	1	2	2WU	NO	NO	1.05	20	619	15	2.11	436	1,098	15	67	10		1	211	53	53
TOTAL FOR MAP NO. 3										1.05		619	15	2.11	436	1,098	15	67	10		1	211	53	53
TOTAL FOR PROJ NO. 2016CPT.03.36.20311										4.70		1,045	50	9.41	2,485	5,071	50	308	70	5	3	576	145	145
GRAND TOTAL										4.70		1,045	50	9.41	2,485	5,071	50	308	70	5	3	576	145	145

PROJECT NO.	SHEET NO.
2016CPT.03.36.20311	10

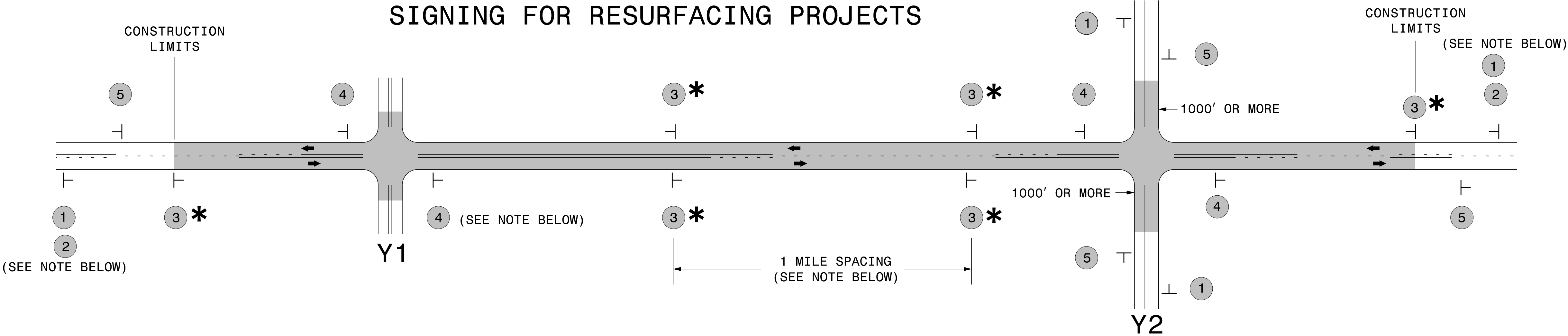
SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	TEMP. MULCHING	SEED FOR TEMP. SEEDING	FERTILIZER FOR TEMP. SEEDING	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING
NO		NO			NO				ACR	LBS	TON	SY	LF	LF	AC	LB	TON
2016CPT.03.36.20311	DUPLIN	1	SR 1302 (ROBERT F. HARGROVE RD.)	FROM SR 1308 (BENNETT RD.) TO WAYNE COUNTY [MP 3.148 TO MP 4.138]	1	2	2WU	NO	0.72	49	0.25	10	50	20	0.72	50	0.25
TOTAL FOR MAP NO. 1									0.72	49	0.25	10	50	20	0.72	50	0.25
2016CPT.03.36.20311	DUPLIN	2	SR 1102 (BRICES STORE RD.)	FROM SR 1125 (MERRITT RD.) TO SR 1101 (CORNWALLIS RD.) MP 7.559 TO MP 10.219	1	2	2WU	NO	1.93	133	0.67	20	133	40	1.93	133	0.67
TOTAL FOR MAP NO. 2									1.93	133	0.67	20	133	40	1.93	133	0.67
2016CPT.03.36.20311	DUPLIN	3	SR 1730 (FARRIOR SCHOOL RD.)	FROM SR 1959 (PAUL ED DAIL RD.) TO NC 24 [MP 0.000 TO MP 1.054]	1	2	2WU	NO	1.53	105	0.53	20	105	40	1.53	105	0.53
TOTAL FOR MAP NO. 3									1.53	105	0.53	20	105	40	1.53	105	0.53
TOTAL FOR PROJ NO. 2016CPT.03.36.20311									4.18	287	1.44	50	288	100	4.18	288	1.44
GRAND TOTAL									4.18	287	1.44	50	288	100	4.18	288	1.44

PROJECT NO.	SHEET NO.
2016CPT.03.36.20311	11

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E WORK ZONE ADVANCE/GENERAL WARNING SIGNING	4457000000-N TEMPORARY TRAFFIC CONTROL	4685000000-E 4" X 90 M WHITE THERMO	4686000000-E 4" X 120 M YELLOW THERMO	4900000000-N YELLOW & YELLOW MARKERS
NO		NO			NO					SF	LS	LF	LF	EA
2016CPT.03.36.20311	DUPLIN	1	SR 1302 (ROBERT F. HARGROVE RD.)	FROM SR 1308 (BENNETT RD.) TO WAYNE COUNTY [MP 3.148 TO MP 4.138]	1	2	2WU	0.99	18	112	0.21	10,652	6,534	65
TOTAL FOR MAP NO. 1								0.99		112	0.21	10,652	6,534	65
2016CPT.03.36.20311	DUPLIN	2	SR 1102 (BRICES STORE RD.)	FROM SR 1125 (MERRITT RD.) TO SR 1101 (CORNWALLIS RD.) MP 7.559 TO MP 10.219	1	2	2WU	2.66	22	304	0.57	28,622	17,556	175
TOTAL FOR MAP NO. 2								2.66		304	0.57	28,622	17,556	175
2016CPT.03.36.20311	DUPLIN	3	SR 1730 (FARRIOR SCHOOL RD.)	FROM SR 1959 (PAUL ED DAIL RD.) TO NC 24 [MP 0.000 TO MP 1.054]	1	2	2WU	1.05	20	128	0.22	11,341	6,956	70
TOTAL FOR MAP NO. 3								1.05		128	0.22	11,341	6,956	70
TOTAL FOR PROJ NO. 2016CPT.03.36.20311								4.70		544	1	50,615	31,046	310
GRAND TOTAL								4.70		544	1	50,615	31,046	310



LEGEND

└ STATIONARY SIGN

➡ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 2 ROAD WORK AHEAD W20-1 48" X 48" NEXT XX MILES W7-3aP 24" X 18" 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 RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)	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" ROAD WORK AHEAD W20-7 A 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.
	3 * LOW/SOFT SHOULDER SP 13107 48" X 48" PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE 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.	
	5 END ROAD WORK G20-2 A 48" X 24" PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	

* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS: STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS