

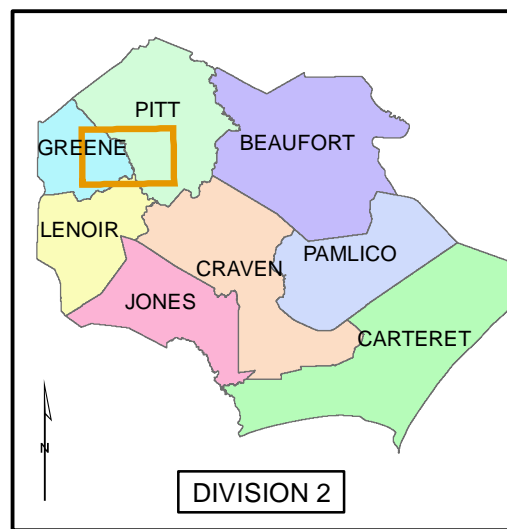
PROJECT REFERENCE NO.	SHEET NO.
DB00340	1

GREENE & PITT COUNTY

DB00340

WBS: 2017CPT.02.43.20401.3

WBS: 2017CPT.02.44.20741.3



LOCATION:

MAP 1 - SR 1343 FROM SR 1335 TO PITT COUNTY

MAP 4 - SR 1125 FROM GREENE COUNTY TO SR 1138

MAP 2 - SR 1400 FROM NC 123 TO NC 903

MAP 5 - SR 1125 FROM SR 1138 TO SR 1127

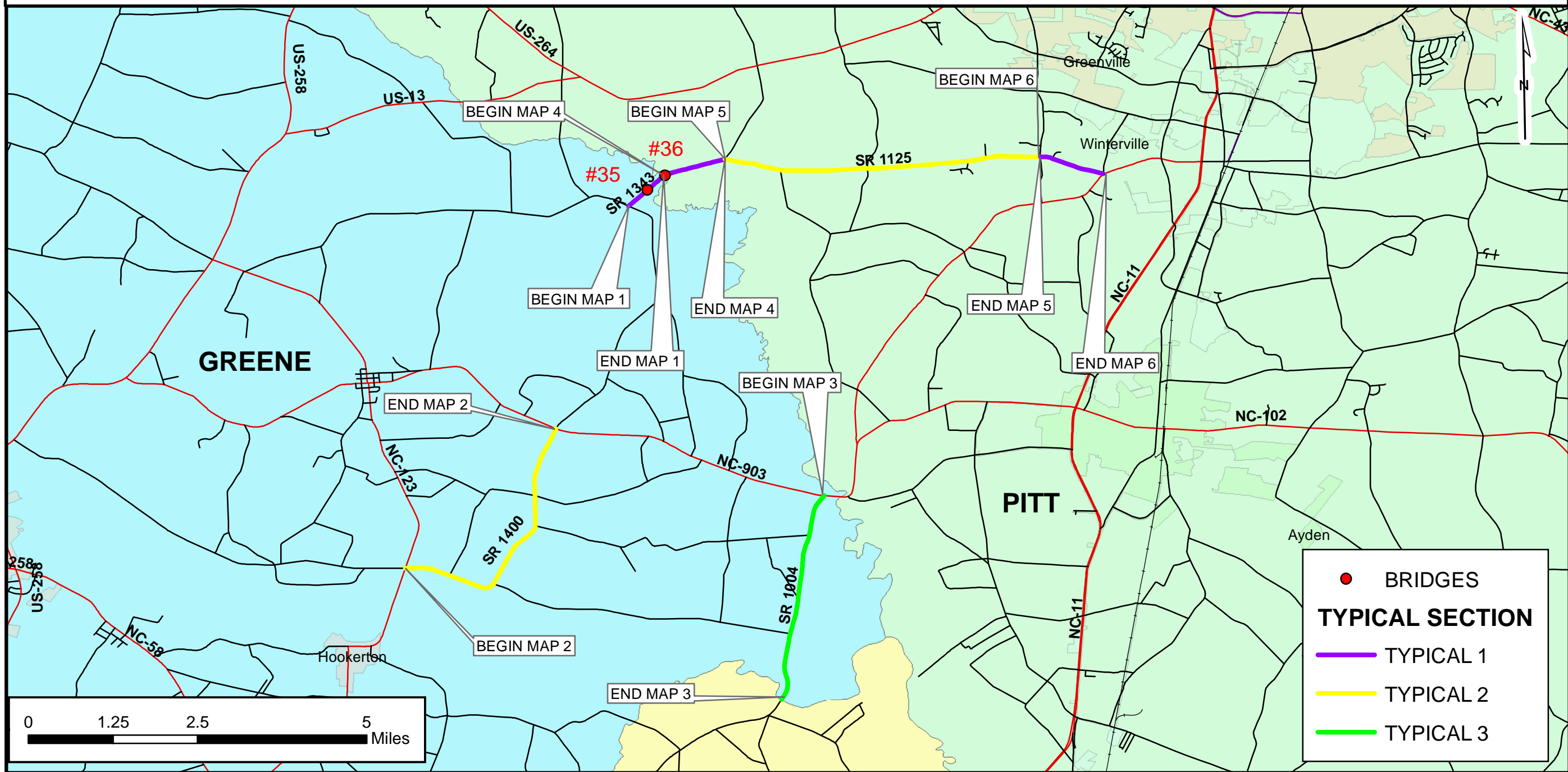
MAP 3 - SR 1004 FROM NC 903 TO LENOIR COUNTY

MAP 6 - SR 1125 FROM SR 1127 TO NC 903

TYPE OF WORK: WIDENING, STRENGTHENING, RESURFACING, SHOULDER RECONSTRUCTION

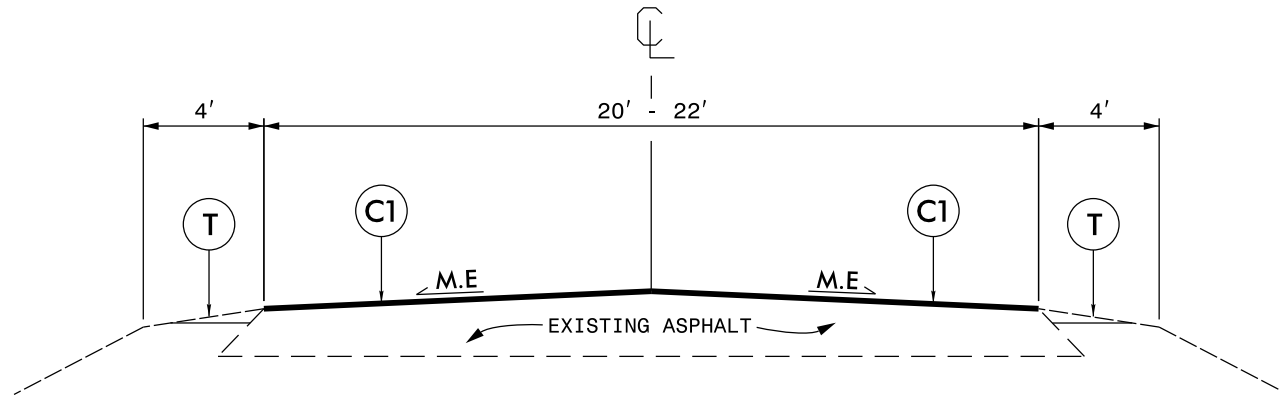


NCDOT
DIVISION 2



TYPICAL SECTION NO. 1

MAP 1 - SR 1343 FROM SR 1335 TO THE PITT COUNTY LINE
 MAP 5 - SR 1125 FROM SR 1138 TO SR 1127
 MAP 6 - SR 1125 FROM SR 1127 TO NC 903

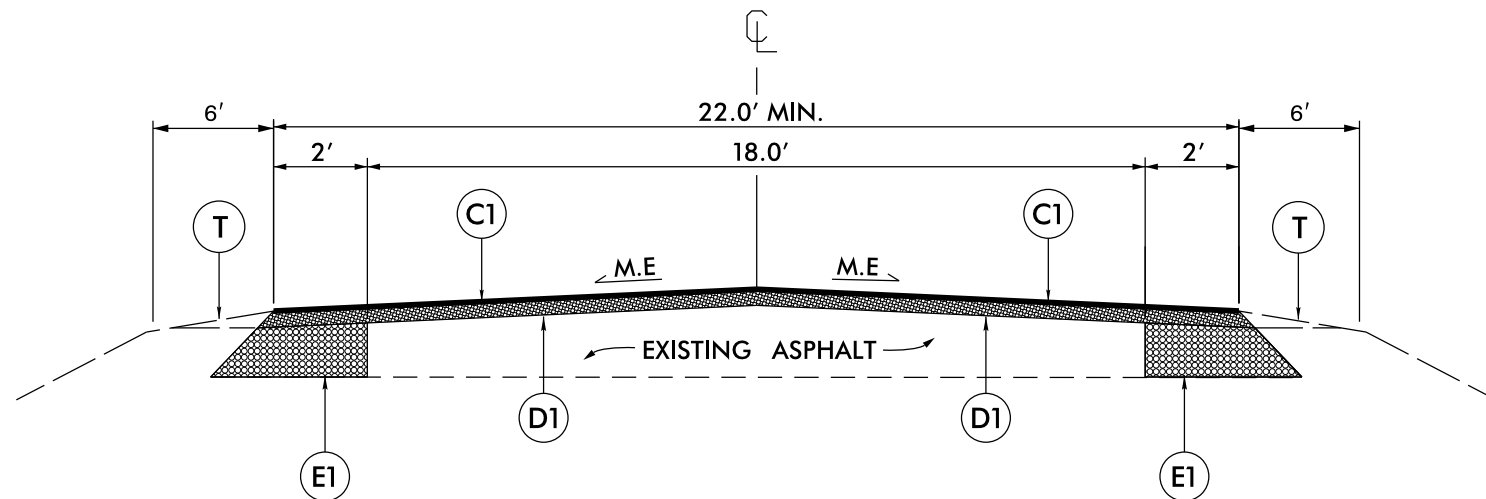


NOTE:

1. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER. SEE DETAIL 1.
3. INCLUDES 1 1/2" MILLING OVER BRIDGES #35 & #36 ON MAP #1

TYPICAL SECTION NO. 2

MAP 2 - SR 1400 FROM NC 123 TO NC 903
 MAP 5 - SR 1125 FROM SR 1138 TO SR 1127



NOTE:

1. PLACE 2' SYMMETRICAL WIDENING. MAKE FLUSH WITH THE EXISTING ASPHALT.
2. TRENCHING SHALL BE PERFORMED USING A MILLING MACHINE OR SIMILAR DEVICE.
3. PLACE ASPHALT INTERMEDIATE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING.
4. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING.
5. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1

PAVEMENT SCHEDULE

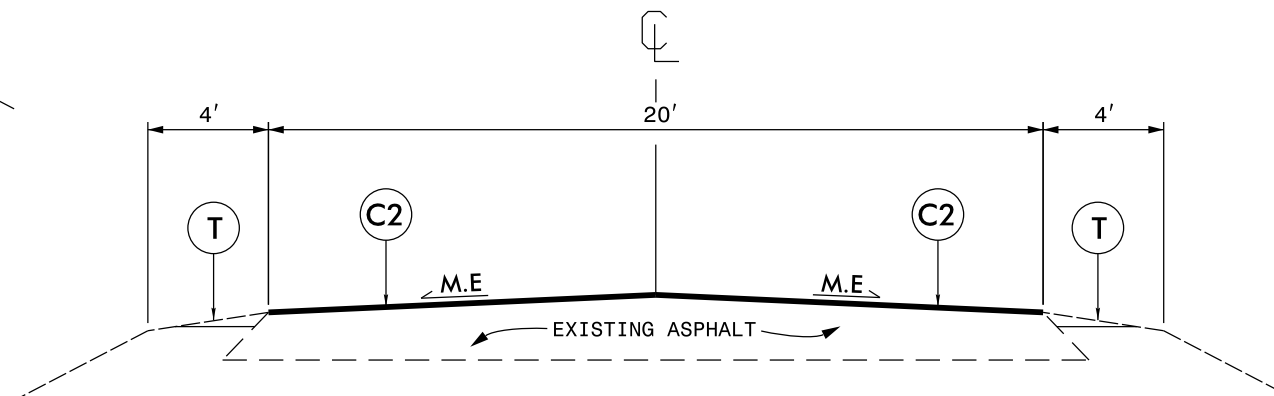
C1	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF 9.5A, AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S 9.5B, AT AN AVERAGE RATE OF 224.0 LBS. PER SQ. YD.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285.0 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 684.0 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING.
V2	1 1/2" DEPTH MILLING.

DRAWINGS NOT TO SCALE

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

TYPICAL SECTION NO. 3

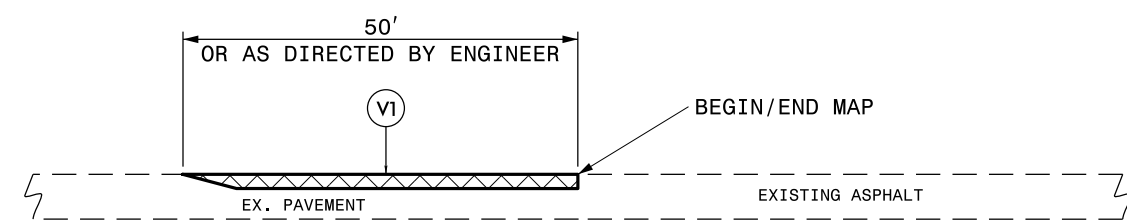
MAP 3 - SR 1004 FROM NC 903 TO LENOIR COUNTY



NOTE:

1. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER. SEE DETAIL 1.

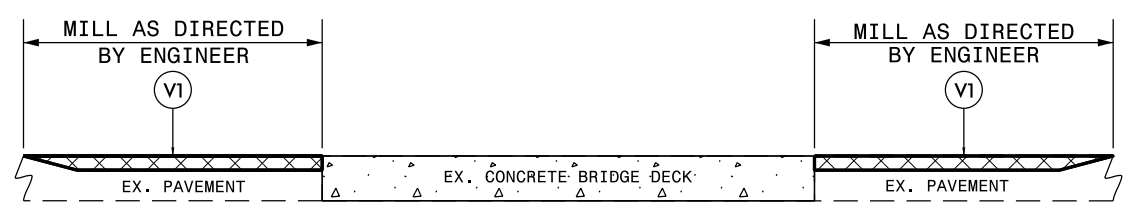
MILLING TYPICALS



DETAIL 1
BEGIN/END MAP TIE-IN

NOTE:

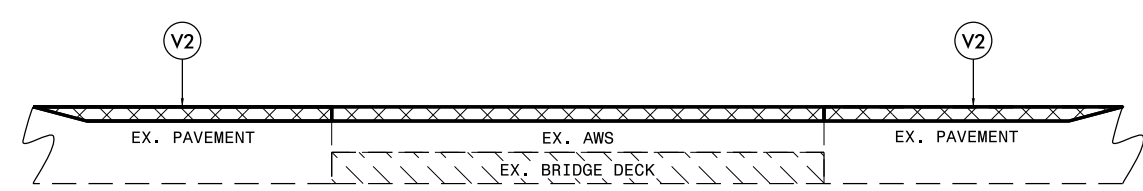
- MILLING SHALL BE PERFORMED AT MAIN LINE TIE-INS AND Y-LINE TIE-INS AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



DETAIL 2
BRIDGE MILLING

NOTE:

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

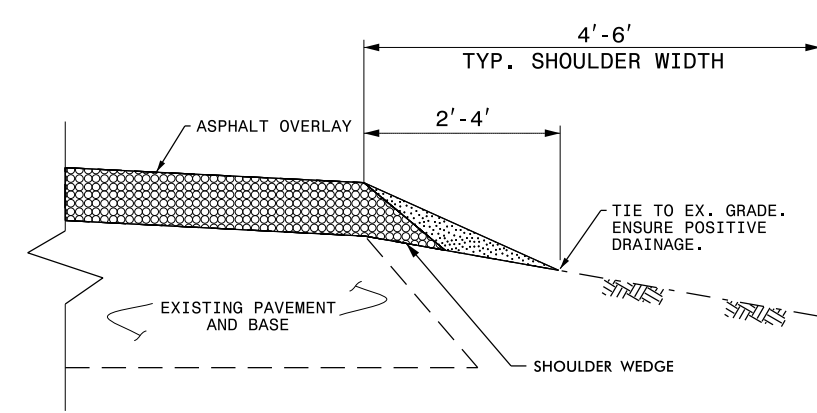


DETAIL 3
BRIDGE MILLING

NOTE:

- INCLUDES MILLING FOR THE ENTIRE WIDTH OF THE BRIDGE WEARING SURFACE, AS DIRECTED BY THE ENGINEER.
- PERFORM 1½" MILLING ACROSS THE EXISTING BRIDGE WEARING SURFACE FOR GREENE COUNTY BRIDGES NUMBER #35 & #36 ON MAP #1.

SHOULDER RECONSTRUCTION TYPICAL

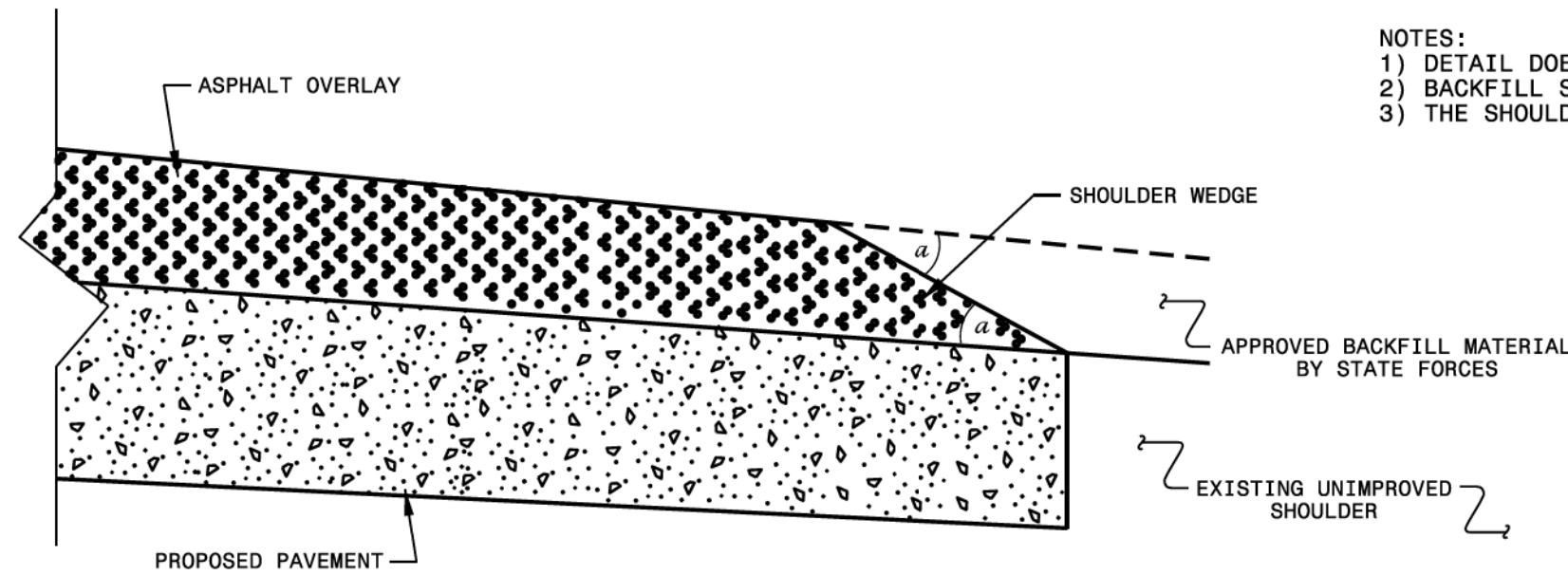


SHOULDER RECONSTRUCTION DETAIL

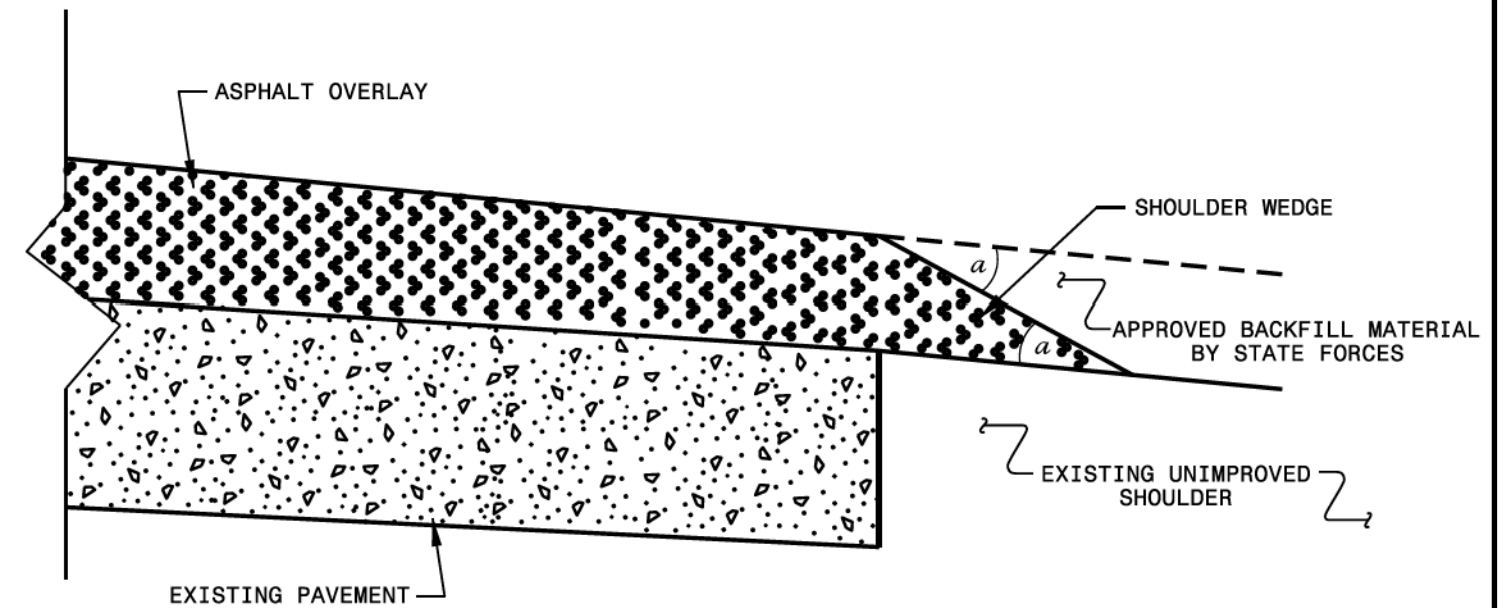
NOTE:

- 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.
- 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.
- REQUIRED BORROW MATERIAL MAY BE OBTAINED FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

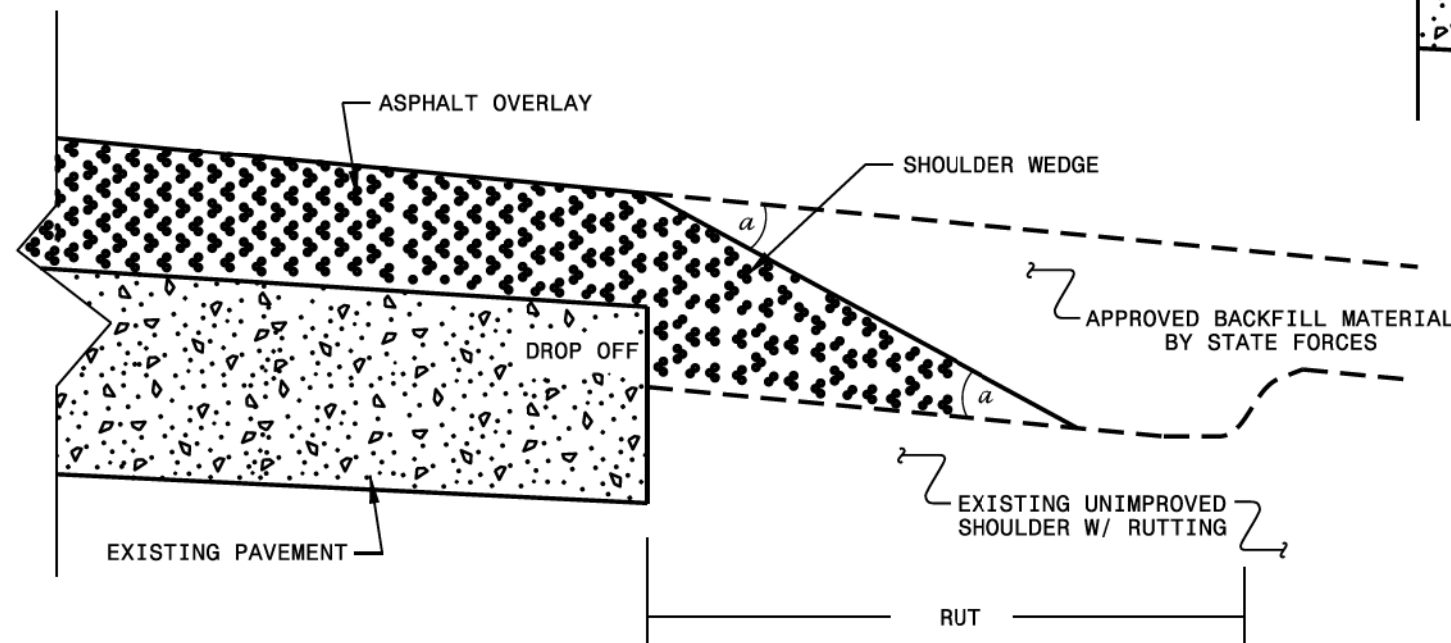
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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)

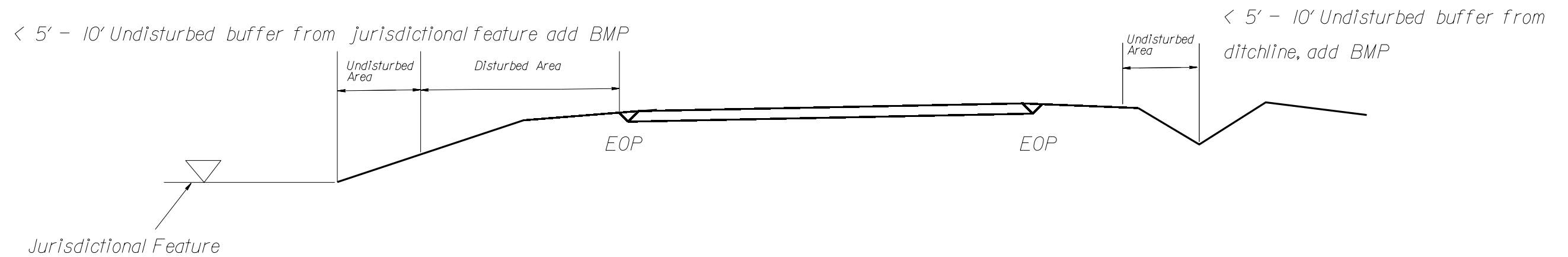
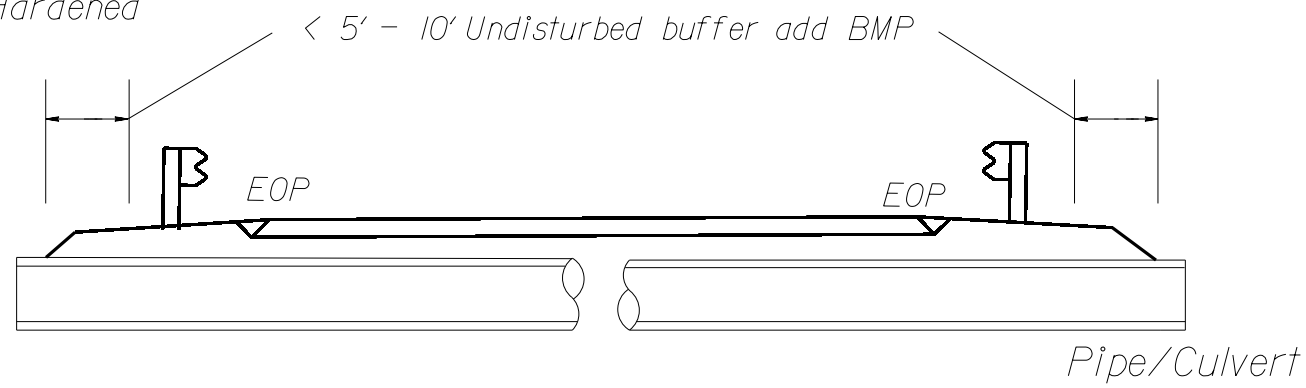
- SHOULDER WEDGE ANGLE = 30°

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\shou1dcrwedgedetail.dgn	

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.

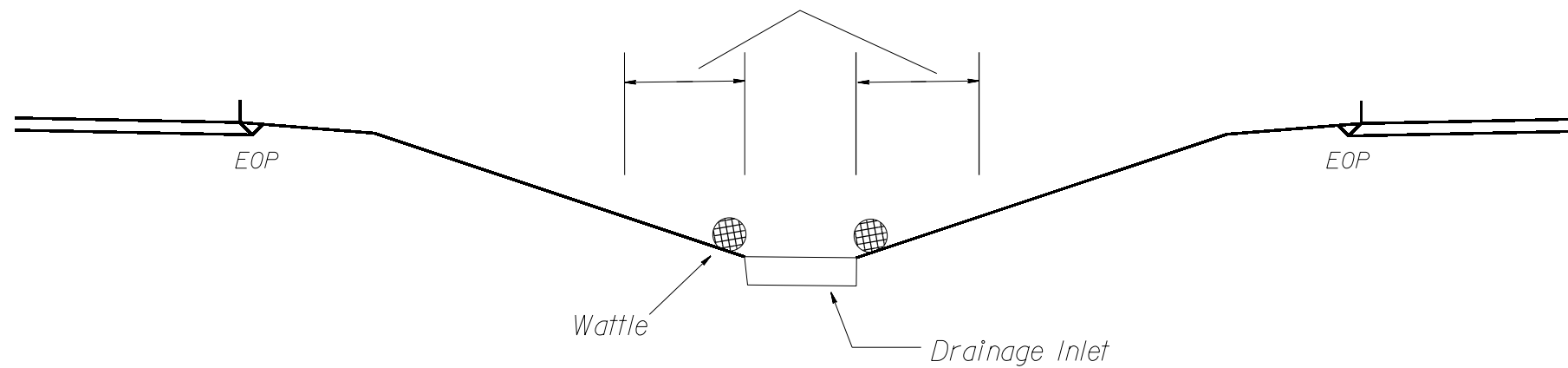
EROSION CONTROL DETAIL



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

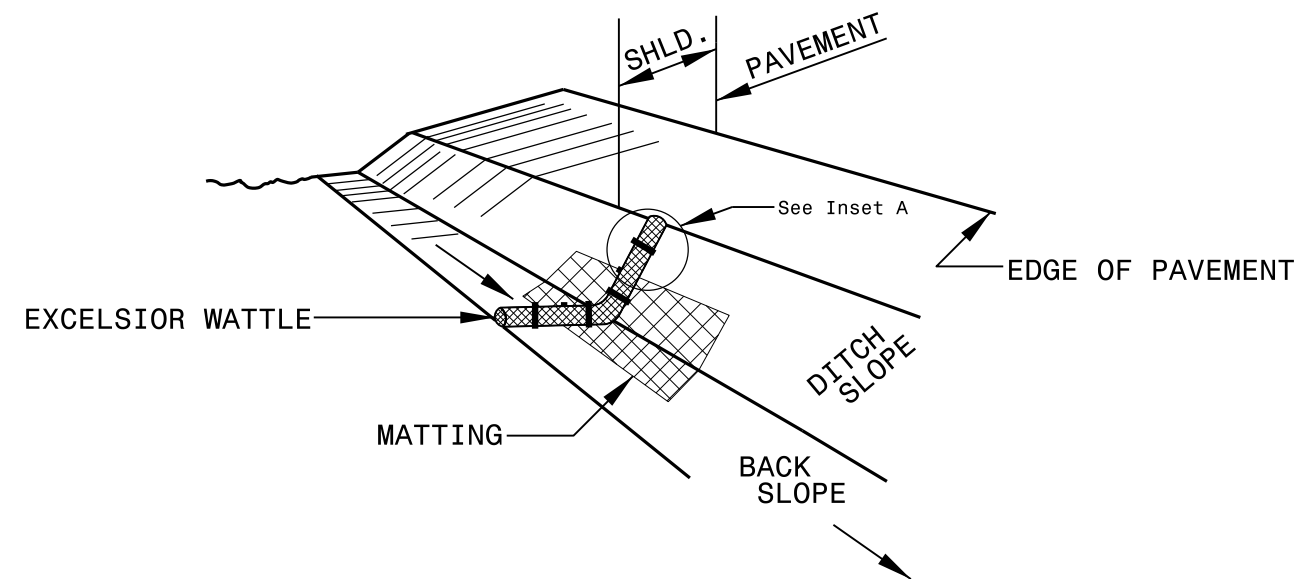


< 5' - 10' Undisturbed buffer from inlet, add wattle

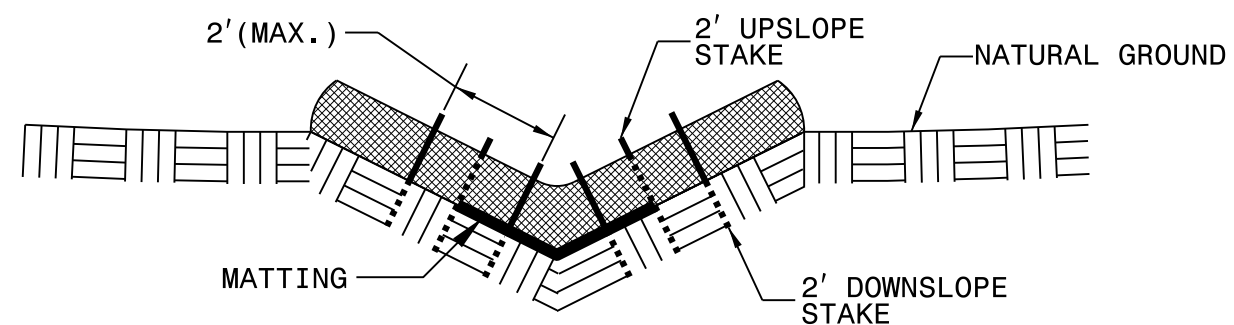


NOT TO SCALE

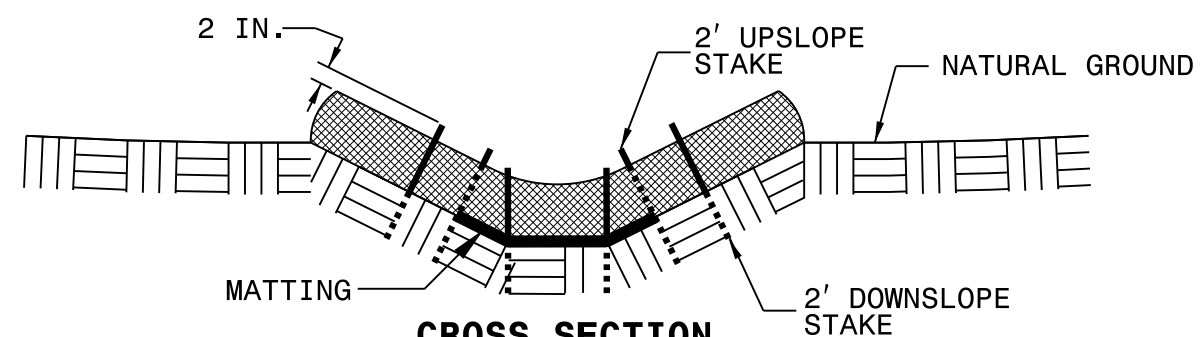
WATTLE DETAIL



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.

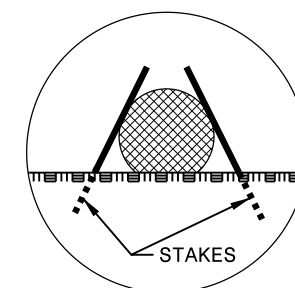
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

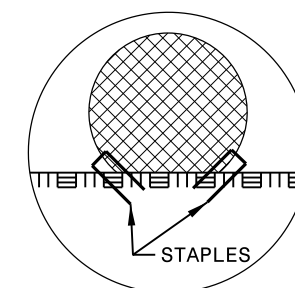
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

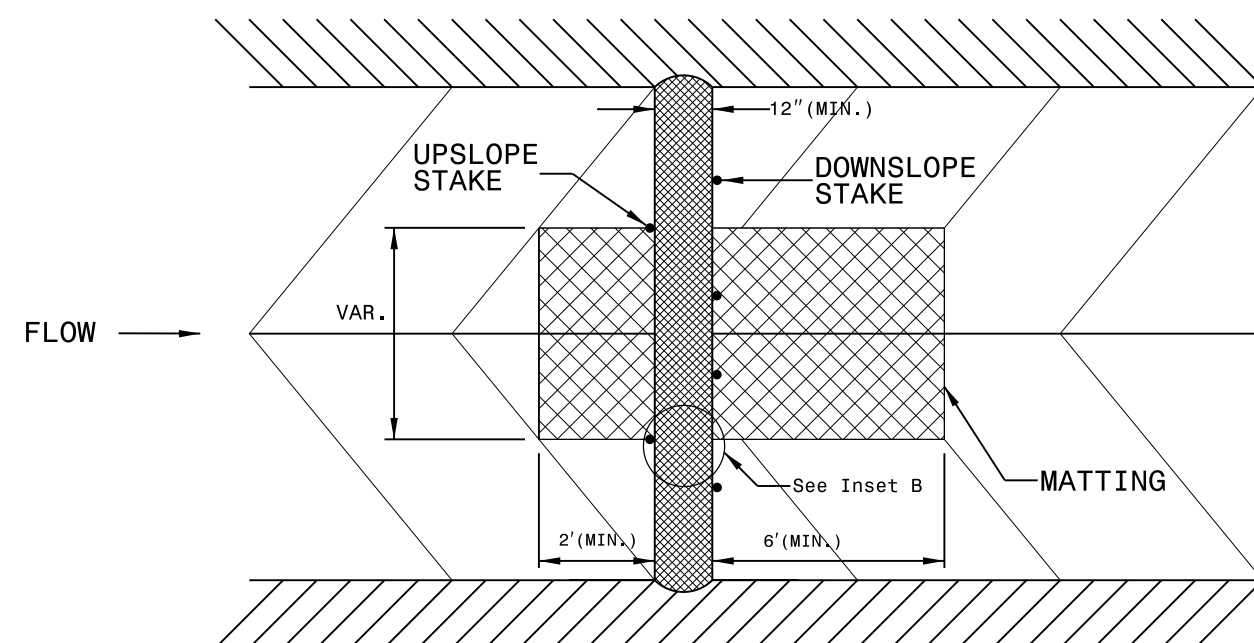
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



TOP VIEW

NOT TO SCALE

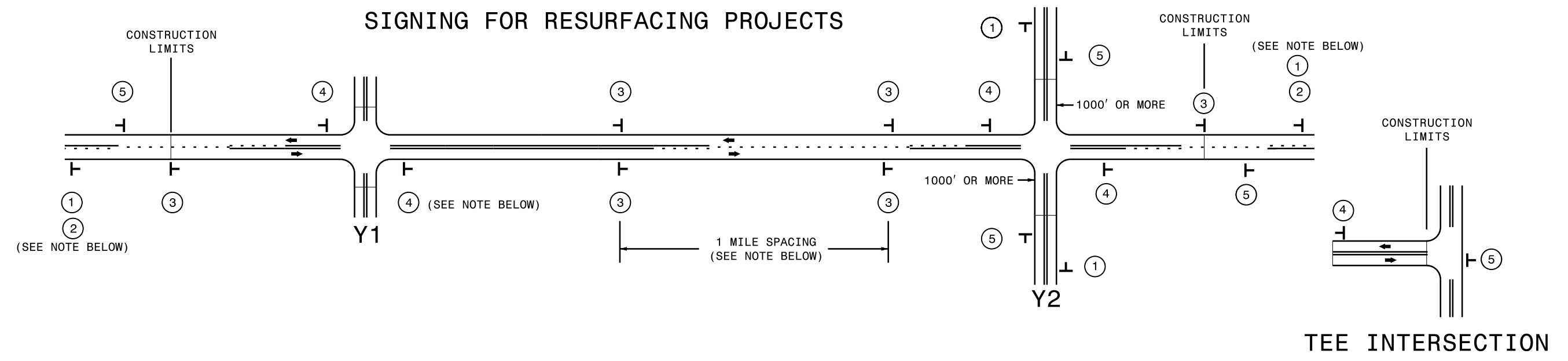
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	HAULING NCDOT SUPPLIED SHOULDER MATERIAL EA	INCIDENTAL STONE BASE TONS	SHOULDER RE-CONSTRUCTION SMI	1 1/2" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	TEMPORARY SILT FENCE LF	WATTLE LF	SEED & MULCHING AC	RESPONSE FOR EROSION CONTROL EA	
2017CPT.02.43.20401.3	Greene	1	SR 1343	SR 1343 FROM SR 1335 TO PITT COUNTY	1	2	2WU	NO	NO	0.632	20	13	25	1.26	2,750	150				947	63	300	25	0.63	2	
TOTAL FOR MAP NO. 1										0.632		13	25	1.26	2,750	150				947	63	300	25	0.63	2	
2017CPT.02.43.20401.3	Greene	2	SR 1400	SR 1400 FROM NC 123 TO NC 903	2	2	2WU	NO	NO	3.623	18	127	100	7.25		450	3,369	7,649		5,027	852	500	50	7.25	1	
TOTAL FOR MAP NO. 2										3.623		127	100	7.25		450	3,369	7,649		5,027	852	500	50	7.25	1	
2017CPT.02.43.20401.3	Greene	3	SR 1004	SR 1004 FROM NC 903 TO LENOIR COUNTY	3	2	2WU	NO	NO	3.08	20	74	100	6.16		600				4,350	261	200	25	3.08	1	
TOTAL FOR MAP NO. 3										3.08		74	100	6.16		600				4,350	261	200	25	3.08	1	
TOTAL FOR PROJ NO. 2017CPT.02.43.20401.3										7.335		214	225	14.67	2,750	1,200	3,369	7,649		4,350	5,974	1,176	1,000	100	10.96	4
2017CPT.02.44.20741.3	Pitt	4	SR 1125	SR 1125 FROM GREENE COUNTY TO SR 1138	1	2	2WU	NO	NO	0.758	22	15	25	1.52		450				1,100	74	100	25	0.76	1	
TOTAL FOR MAP NO. 4										0.758		15	25	1.52		450				1,100	74	100	25	0.76	1	
2017CPT.02.44.20741.3	Pitt	5	SR 1125	SR 1125 FROM SR 1138 TO SR 1127	2	2	2WU	NO	NO	3.849	18	135	100	7.70		200	3,579	7,876		5,061	875	200	50	3.85	1	
TOTAL FOR MAP NO. 5										3.849		135	100	7.70		200	3,579	7,876		5,061	875	200	50	3.85	1	
2017CPT.02.44.20741.3	Pitt	6	SR 1125	SR 1125 FROM SR 1127 TO NC 903	1	2	2WU	NO	NO	0.808	22	16	15	1.62		150				1,169	78	100	25	0.81	1	
TOTAL FOR MAP NO. 6										0.808		16	15	1.62		150				1,169	78	100	25	0.81	1	
TOTAL FOR PROJ NO. 2017CPT.02.44.20741.3										5.415		166	140	10.84		800	3,579	7,876		7,330	1,027	400	100	5.42	3	
GRAND TOTAL										12.75		380	365	25.51	2,750	2,000	6,948	15,525	4,350	13,304	2,203	1,400	200	16.38	7	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS
2017CPT.02.43.20401.3	Greene	1	SR 1343	SR 1343 FROM SR 1335 TO PITT COUNTY	1	2	2WU	0.632	20	75	0.044
TOTAL FOR MAP NO. 1								0.632		75	0.044
2017CPT.02.43.20401.3	Greene	2	SR 1400	SR 1400 FROM NC 123 TO NC 903	2	2	2WU	3.623	18	425	0.260
TOTAL FOR MAP NO. 2								3.623		425	0.260
2017CPT.02.43.20401.3	Greene	3	SR 1004	SR 1004 FROM NC 903 TO LENOIR COUNTY	3	2	2WU	3.080	20	350	0.220
TOTAL FOR MAP NO. 3								3.080		350	0.220
TOTAL FOR PROJ NO. 2017CPT.02.43.20401.3								7.335		850	0.524
2017CPT.02.44.20741.3	Pitt	4	SR 1125	SR 1125 FROM GREENE COUNTY TO SR 1138	1	2	2WU	0.758	22	90	0.060
TOTAL FOR MAP NO. 4								0.758		90	0.060
2017CPT.02.44.20741.3	Pitt	5	SR 1125	SR 1125 FROM SR 1138 TO SR 1127	2	2	2WU	3.849	18	525	0.350
TOTAL FOR MAP NO. 5								3.849		525	0.350
2017CPT.02.44.20741.3	Pitt	6	SR 1125	SR 1125 FROM SR 1127 TO NC 903	1	2	2WU	0.808	22	100	0.070
TOTAL FOR MAP NO. 6								0.808		100	0.070
TOTAL FOR PROJ NO. 2017CPT.02.44.20741.3								5.415		715	0.480
GRAND TOTAL								12.750		1,565	1.004

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┃	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.		
	②	 <small>W7-3aP 24" X 18"</small>	#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	 <small>SP 13107 48" X 48"</small>	- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.		
	④	 <small>SP 13106 48" X 48"</small>	- 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	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	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.		
			 <small>W20-1 48" X 48"</small> <small>W20-7 A 48" X 48"</small>		
			PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.		

	RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2 LANE ROADWAYS
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