

**GREENE COUNTY**  
**DB00431**

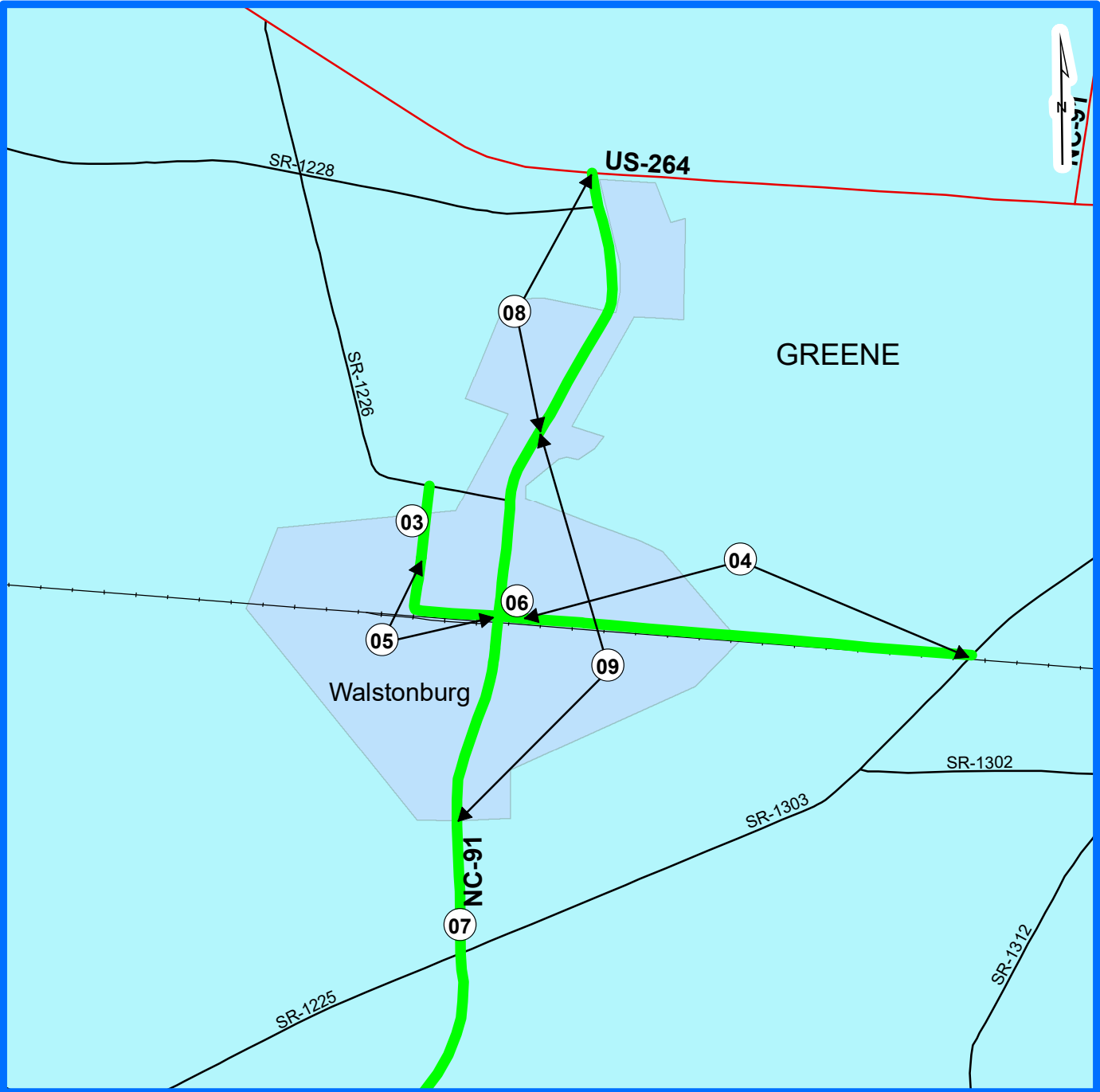
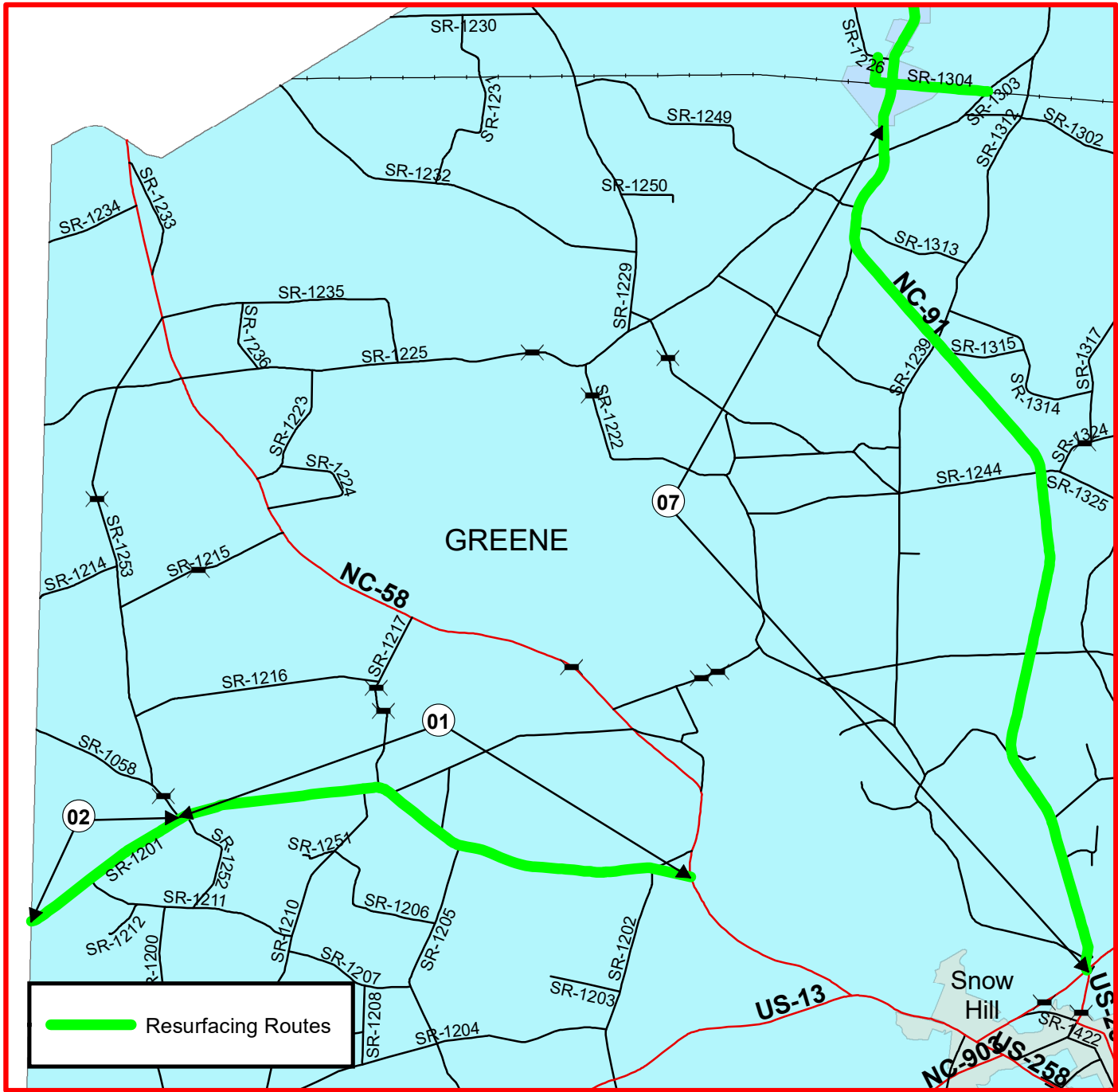
WBS# 2019CPT.02.13.20401  
2019CPT.02.14.10401

**TYPE OF WORK: MILLING, STRENGTHENING, WIDENING, RESURFACING, SHOULDER  
RECONSTRUCTION, PAVEMENT MARKINGS**

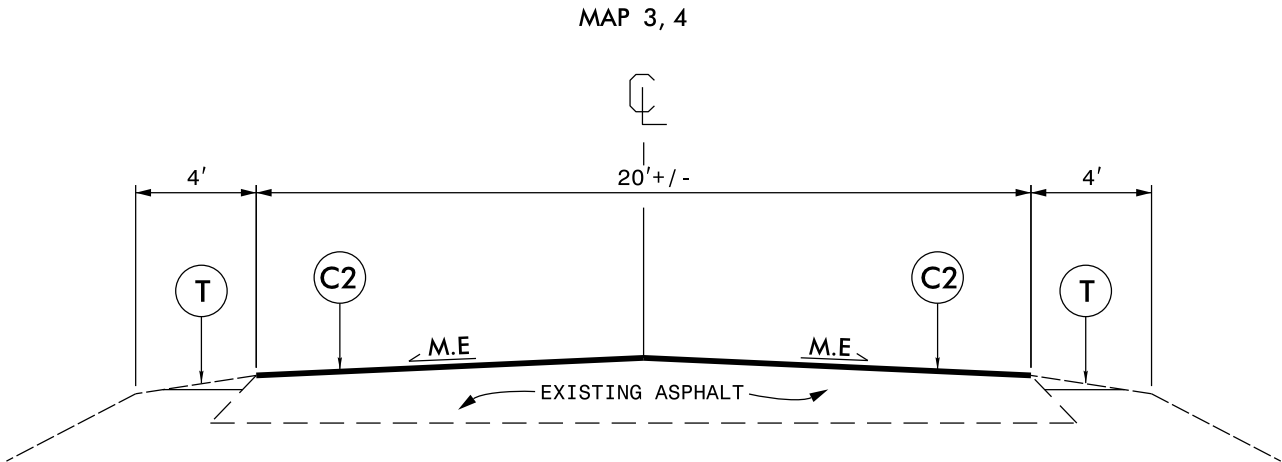
PROJECT REFERENCE NO.	SHEET NO.
DB00431	1



**NCDOT**  
DIVISION 2

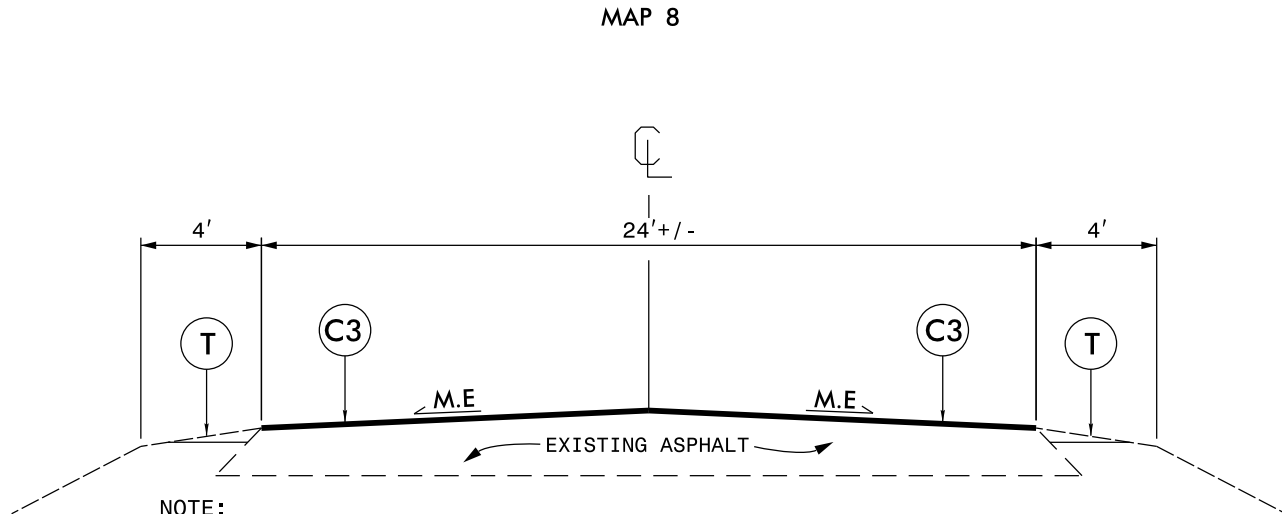


TYPICAL SECTION NO. 1



- NOTE:
- PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
  - INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
  - PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

TYPICAL SECTION NO. 2

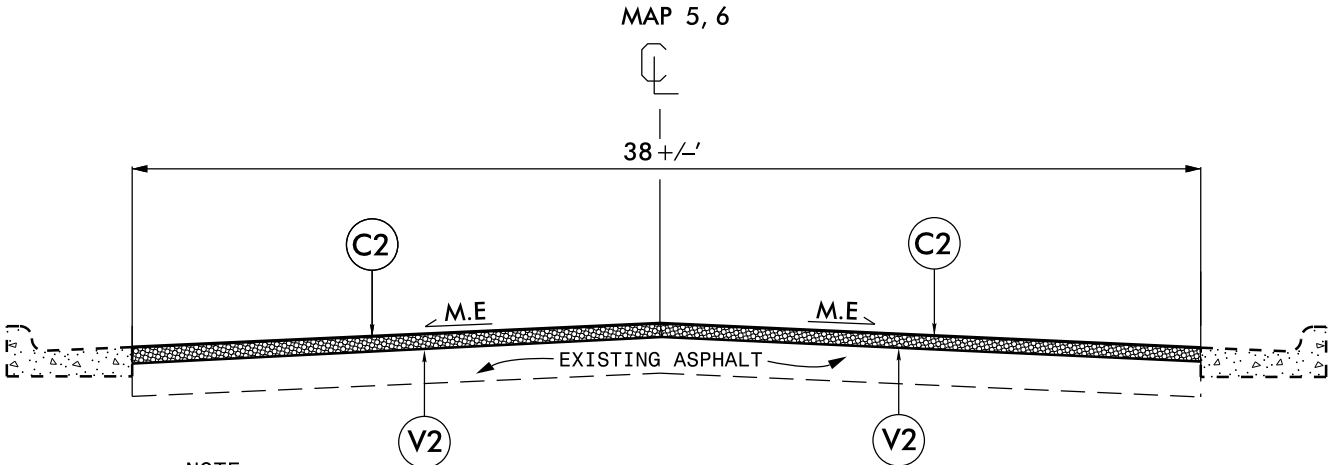


- NOTE:
- PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
  - INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
  - PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD.
C4	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. PER LIFT. THIS SURFACE COURSE IS TO BE APPLIED IN TWO LIFTS 1 1/2" EACH FOR A TOTAL OF 3"
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ACBC, TYPE B25.0C AT AN AVERAGE RATE OF 684 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1 3/4" FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 2" FOR ENTIRE WIDTH OF ROADWAY.
DRAWINGS NOT TO SCALE	

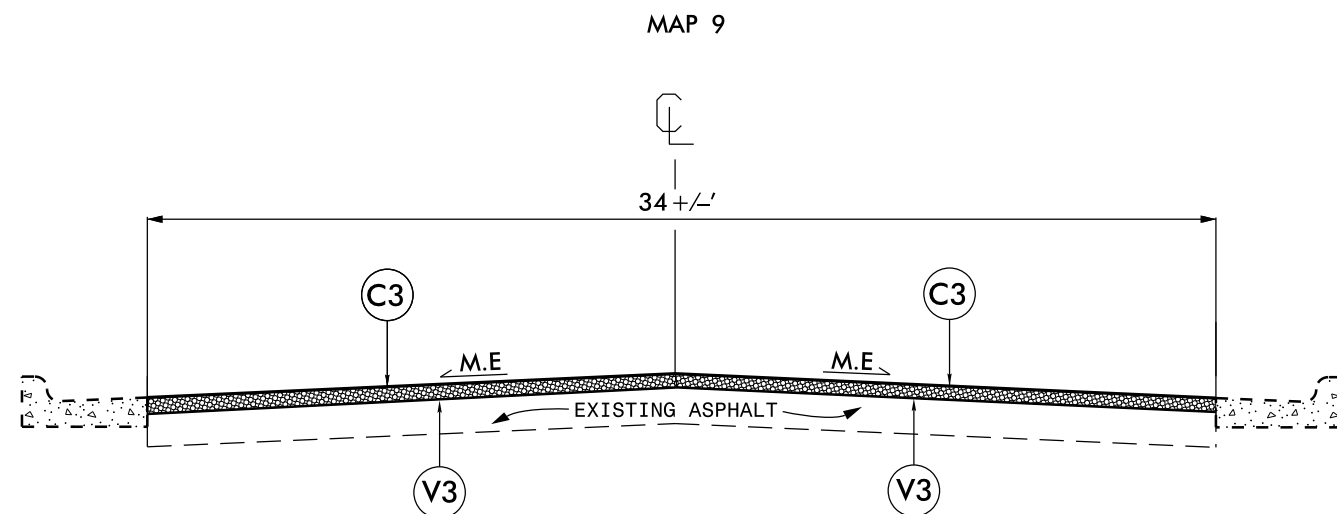
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

TYPICAL SECTION NO. 3



- NOTE:
- PERFORM 1 3/4" DEPTH MILLING FROM CURB AND GUTTER TO CURB AND GUTTER, FULL WIDTH.
  - PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.

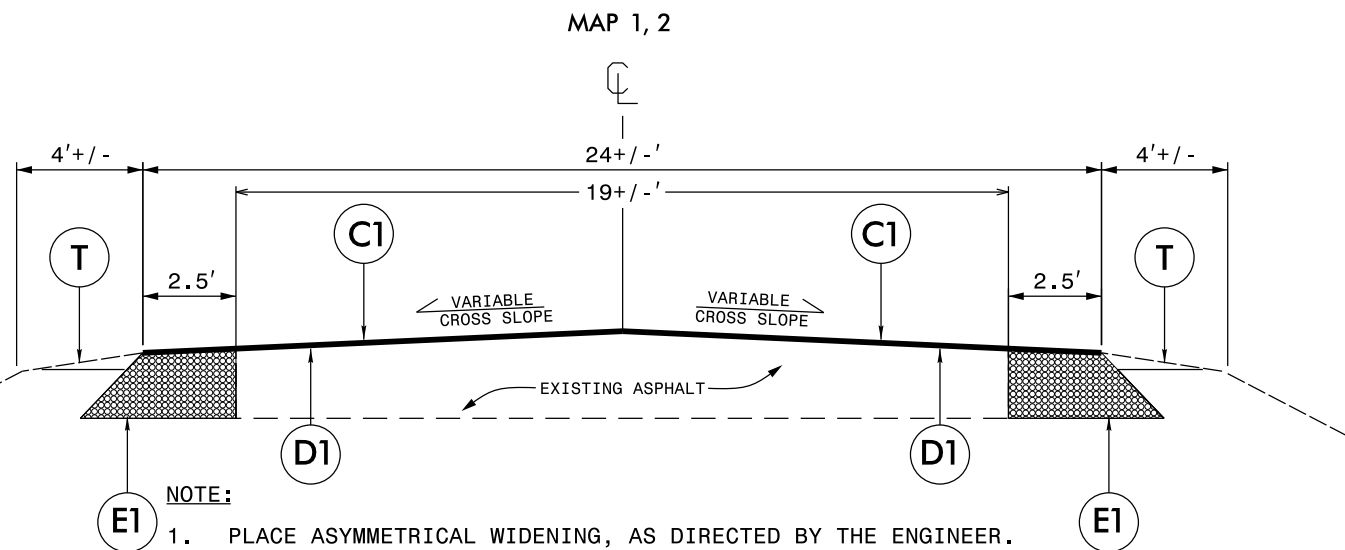
## TYPICAL SECTION NO. 4



## NOTE:

1. PERFORM 2" DEPTH MILLING FROM CURB AND GUTTER TO CURB AND GUTTER, FULL WIDTH.
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1.

## TYPICAL SECTION NO. 5



## NOTE:

1. PLACE ASYMMETRICAL WIDENING, AS DIRECTED BY THE ENGINEER. MAKE FLUSH WITH THE EXISTING ASPHALT.
2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
3. PLACE ASPHALT INTERMEDIATE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING.
4. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING.
5. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

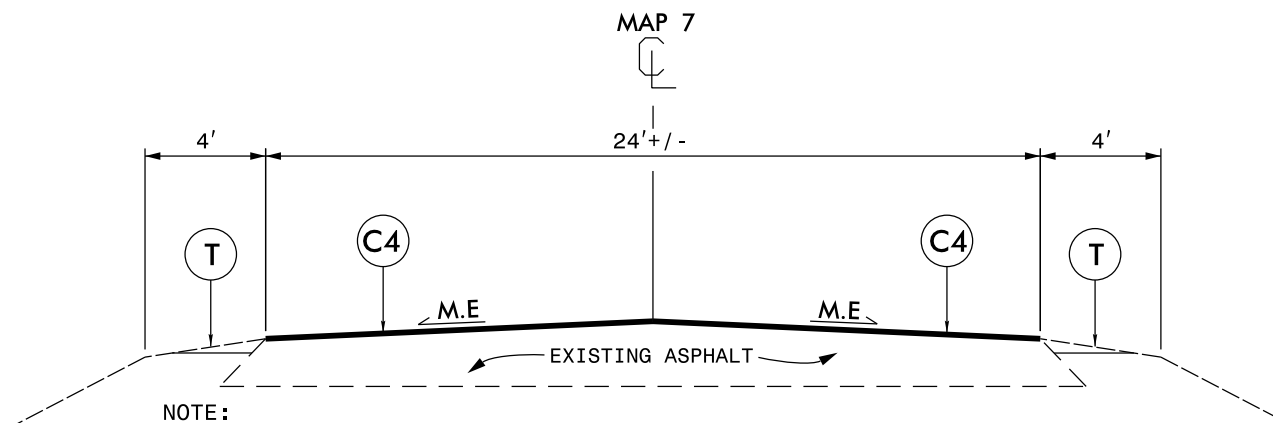
## PAVEMENT SCHEDULE

C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD.
C4	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. PER LIFT. THIS SURFACE COURSE IS TO BE APPLIED IN TWO LIFTS 1 1/2" EACH FOR A TOTAL OF 3"
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ACBC, TYPE B25.0C AT AN AVERAGE RATE OF 684 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1 3/4" FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 2" FOR ENTIRE WIDTH OF ROADWAY.

DRAWINGS NOT TO SCALE

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

## TYPICAL SECTION NO. 6



## NOTE:

1. PLACE TWO LAYERS OF ASPHALT SURFACE COURSE AT 1 1/2" DEPTH EACH, AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
2. INCLUDES 1 1/2" MILLING AT THE INTERSECTIONS OF SR-1358, SR-1330, AND THE TURN LANE AT SR-1330 (MIDDLE SCHOOL ROAD).
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
4. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00431	4	

## SUMMARY OF QUANTITIES

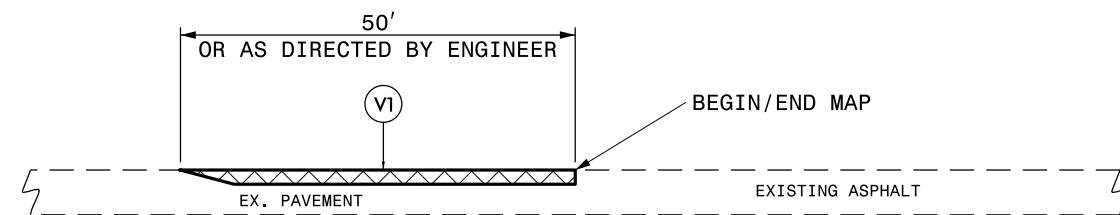
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0262000000-N	1220000000-E	1245000000-E	1297000000-E			1330000000-E	1491000000-E	1503000000-E	1519000000-E	1575000000-E	2800000000-N	2815000000-N	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	6117000000-N	
												HAULING NCDOT SUPPLIED SHOULDER MATERIAL	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTI ON	1.75" MILLING	1½" MILLING	2" MILLING	INCIDENTAL MILLING	BASE COURSE, 825.0C	INTERMEDIATE COURSE, 119.0C	SURFACE COURSE, \$9.58	ASPHALT BINDER FOR PLANT MIX	ADJ. OF CATCH BASIN	ADJ. OF DROP INLET	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	
												EA	TONS	SMI	SY	SY	SY	SY	TONS	TONS	TONS	TONS	EA	EA	EA	EA	LF	LF	AC	EA	
2019CPT.02.13.20401	Greene	1	SR 1058	FROM NC 58 TO SR 1201	5	2	2WU	NO	NO	4.56	24	365	228	9.12				500	5,000	10,900	6,850	1,207	1	1	1	1	250	80	5.70	1	
TOTAL FOR MAP NO. 1										4.56		365	228	9.12				500	5,000	10,900	6,850	1,207	1	1	1	1	250	80	5.70	1	
2019CPT.02.13.20401	Greene	2	SR 1201	FROM WAYNE CO TO SR 1058	5	2	2WU	NO	NO	1.70	24	136	85	3.40				250	1,800	3,600	2,100	395				170	68	2.13			
TOTAL FOR MAP NO. 2										1.70		136	85	3.40				250	1,800	3,600	2,100	395				170	68	2.13			
2019CPT.02.13.20401	Greene	3	SR 1227	FROM SR 1226 TO BEGIN C&G	1	2	2WU	NO	NO	0.13	18	7	7	0.26				50			150	10			1	1			0.16		
TOTAL FOR MAP NO. 3										0.13		7	7	0.26				50			150	10			1	1			0.16		
2019CPT.02.13.20401	Greene	4	SR 1304	FROM SR 1303 TO BEGIN C&G	1	2	2WU	NO	NO	0.63	18	32	32	1.26				100			650	44					100	40	0.79		
TOTAL FOR MAP NO. 4										0.63		32	32	1.26				100			650	44					100	40	0.79		
2019CPT.02.13.20401	Greene	5	SR 1227	BEGIN C&G TO NC91	3	2	2WU	NO	NO	0.25	38		13		5,100					525	35				1	1					
TOTAL FOR MAP NO. 5										0.25			13		5,100					525	35				1	1					
2019CPT.02.13.20401	Greene	6	SR 1304	FROM BEGIN C&G TO NC 91	3	2	2WU	NO	NO	0.16	46		8		4,200					425	28				1	1					
TOTAL FOR MAP NO. 6										0.16			8		4,200					425	28				1	1					
TOTAL FOR PROJ NO. 2019CPT.02.13.20401										7.43		540	373	14.04	9,300			900	6,800	14,500	10,700	1,719	1	1	4	4	520	188	8.78	1	
																9,300															
2019CPT.02.14.10401	Greene	7	NC 91	FROM US 13 TO WALSTONBURG C&G	6	2	2WU	NO	NO	9.06	36	725	453	18.12		6,700		900			25,700	1,722					200	80	11.33	1	
TOTAL FOR MAP NO. 7										9.06		725	453	18.12		6,700		900			25,700	1,722					200	80	11.33	1	
2019CPT.02.14.10401	Greene	8	NC 91	FROM WALSTONBURG C&G TO US 264 ALT	2	2	2WU	NO	NO	0.52	26	26	26	1.04				200			900	60					100	40	0.65		
TOTAL FOR MAP NO. 8										0.52		26	26	1.04				200			900	60					100	40	0.65		
2019CPT.02.14.10401	Greene	9	NC 91	FROM WALSTONBURG C&G TO WALSTONBURG C&G	4	2	2WU	NO	NO	0.85	34					17,800				2,100	141	1	1	1	1						
TOTAL FOR MAP NO. 9										0.85						17,800				2,100	141	1	1	1	1						
TOTAL FOR PROJ NO. 2019CPT.02.14.10401										10.43		751	479	19.16		6,700	17,800	1,100			28,700	1,923	1	1	1	1	300	120	11.98	1	
																24,500															
GRAND TOTAL										17.86			1,291	852	33.20	9,300	6,700	17,800	2,000	6,800	14,500	39,400	3,642	2	2	5	5	820	308	20.76	2
																33,800															

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00431	5	

THERMOPLASTIC AND PAINT QUANTITIES

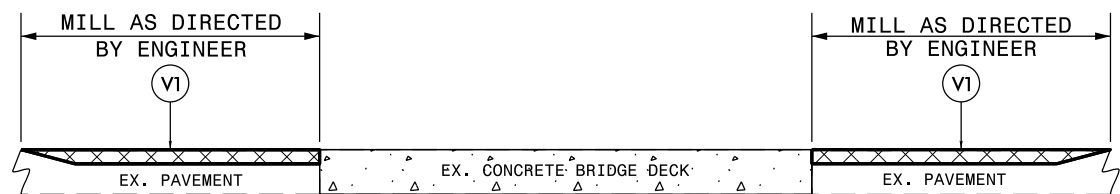
										4413000000-E	4457000000-N	4815000000-E		4830000000-E	4835000000-E	4840000000-N		4845000000-N		
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/GE NERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	6" YELLOW PAINT	6" WHITE PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG SCHOOL	PAINT MSG RXR	PAINT LT ARROW	PAINT RT ARROW	PAINT STR ARROW
								MI	FT	SF	LS	LF	LF	LF	LF	EA	EA	EA	EA	EA
2019CPT.02.13.20401	Greene	1	SR 1058	FROM NC 58 TO SR 1201	5	2	2WU	4.56	24	525	0.26									
TOTAL FOR MAP NO. 1								4.56		525	0.26									
2019CPT.02.13.20401	Greene	2	SR 1201	FROM WAYNE CO TO SR 1058	5	2	2WU	1.7	24	200	0.10									
TOTAL FOR MAP NO. 2								1.7		200	0.10									
2019CPT.02.13.20401	Greene	3	SR 1227	FROM SR 1226 TO BEGIN C&G	1	2	2WU	0.13	18	15	0.01									
TOTAL FOR MAP NO. 3								0.13		15	0.01									
2019CPT.02.13.20401	Greene	4	SR 1304	FROM SR 1303 TO BEGIN C&G	1	2	2WU	0.63	18	75	0.03									
TOTAL FOR MAP NO. 4								0.63		75	0.03									
2019CPT.02.13.20401	Greene	5	SR 1227	BEGIN C&G TO NC91	3	2	2WU	0.25	38	30	0.01									
TOTAL FOR MAP NO. 5								0.25		30	0.01									
2019CPT.02.13.20401	Greene	6	SR 1304	FROM BEGIN C&G TO NC 91	3	2	2WU	0.16	46	20	0.01									
TOTAL FOR MAP NO. 6								0.16		20	0.01									
TOTAL FOR PROJ NO. 2019CPT.02.13.20401								7.43		865	0.42									
2019CPT.02.14.10401	Greene	7	NC 91	FROM US 13 TO WALSTONBURG C&G	6	2	2WU	9.06	36	1,020	0.50	66,000	100,000		260	12		24	16	7
TOTAL FOR MAP NO. 7								9.06		1,020	0.50	66,000	100,000		260	12		24	16	7
2019CPT.02.14.10401	Greene	8	NC 91	FROM WALSTONBURG C&G TO US 264 ALT	2	2	2WU	0.52	26	60	0.03	5,500	5,500		40					
TOTAL FOR MAP NO. 8								0.52		60	0.03	5,500	5,500		40					
2019CPT.02.14.10401	Greene	9	NC 91	FROM WALSTONBURG C&G TO WALSTONBURG C&G	4	2	2WU	0.85	34	100	0.05	9,000	1,620	100	100		4			
TOTAL FOR MAP NO. 9								0.85		100	0	9,000	1,620	100	100		4			
TOTAL FOR PROJ NO. 2019CPT.02.14.10401								10.43		1,180	1	80,500	107,120	100	400	12	4	24	16	7
												187,620				16		47		
GRAND TOTAL								17.86		2,045	1	80,500	107,120	100	400	12	4	24	16	7
												187,620				16		47		

# MILLING TYPICALS



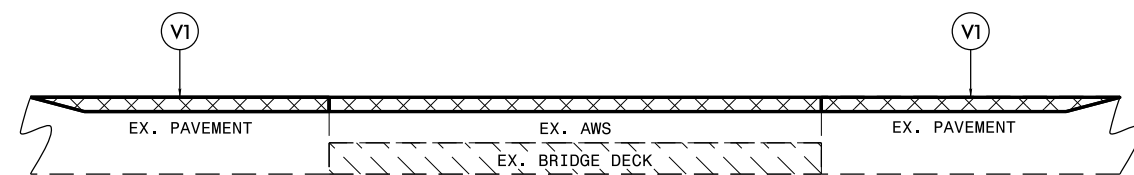
**DETAIL 1**  
BEGIN/END MAP TIE-IN

- 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

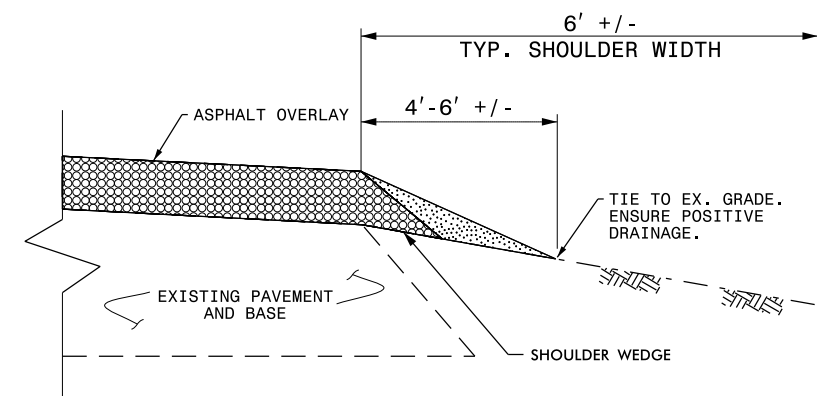
- NOTE:**
1. MILLING SHALL BE PERFORMED AT THE BRIDGE APPROACHES AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



**DETAIL 3**  
BRIDGE MILLING

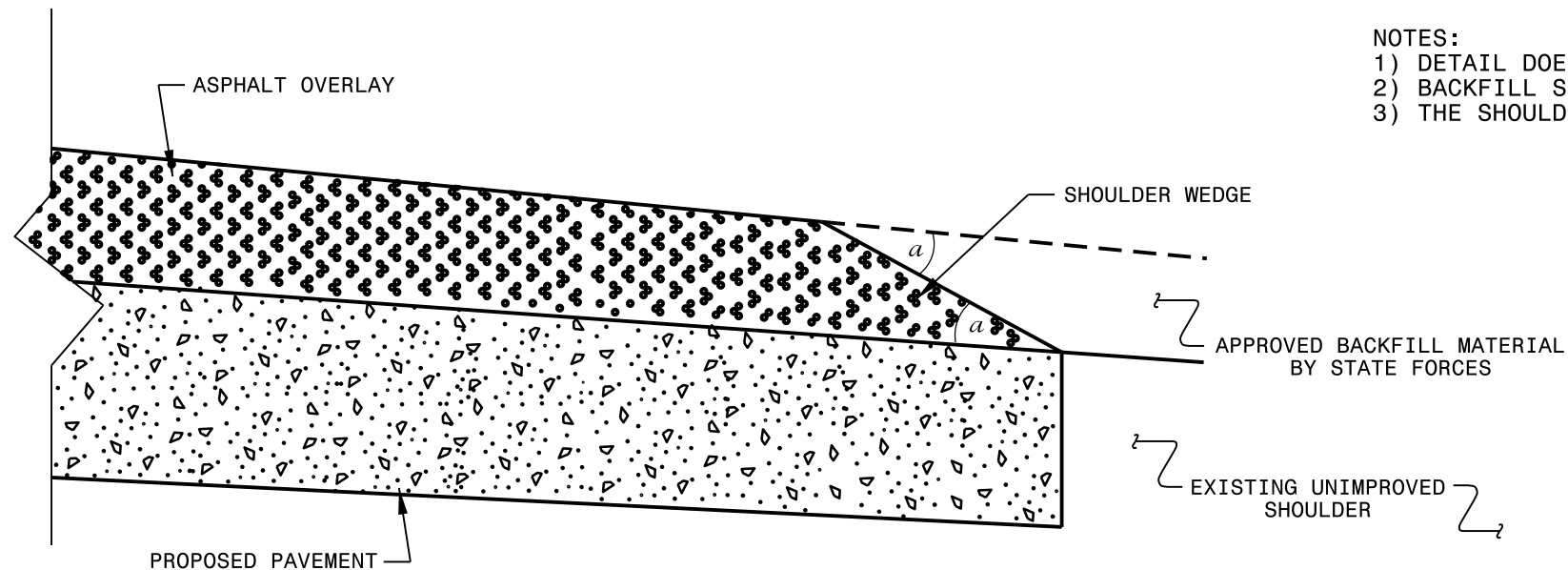
- NOTE:**
1. INCLUDES MILLING FOR THE ENTIRE WIDTH OF THE BRIDGE WEARING SURFACE, AS DIRECTED BY THE ENGINEER.

# SHOULDER RECONSTRUCTION TYPICAL



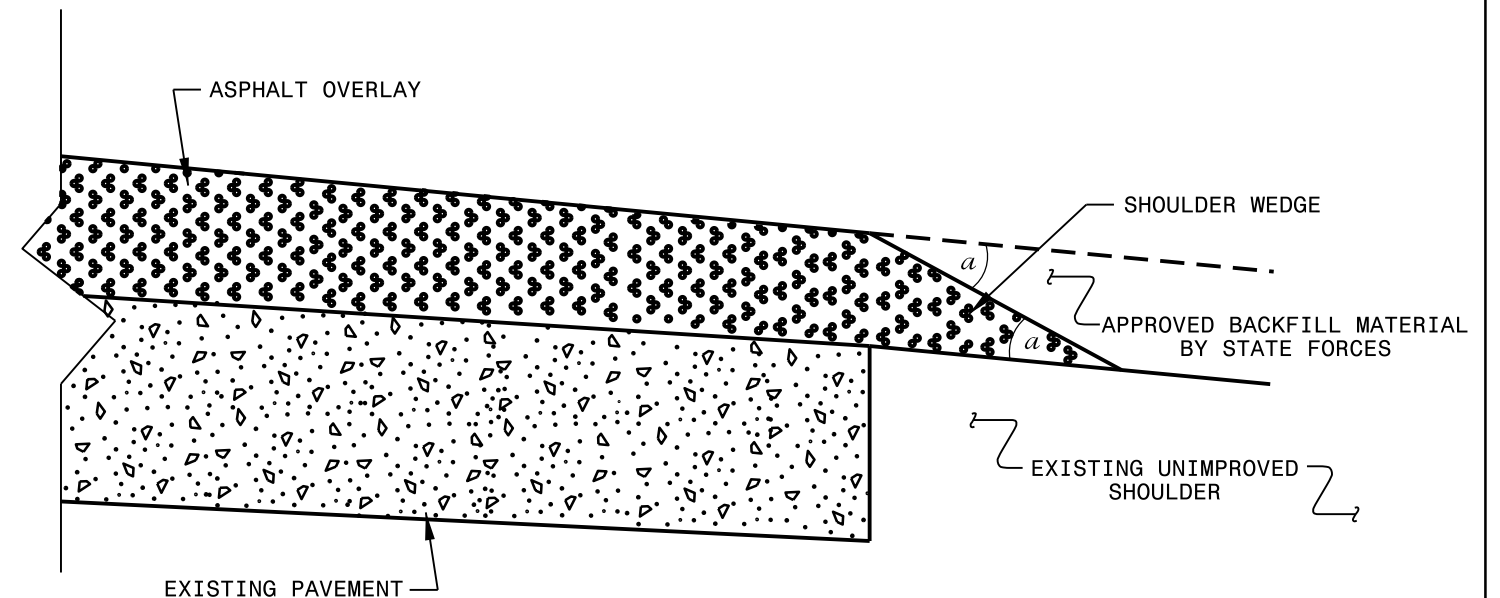
**SHOULDER RECONSTRUCTION DETAIL**

- 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.

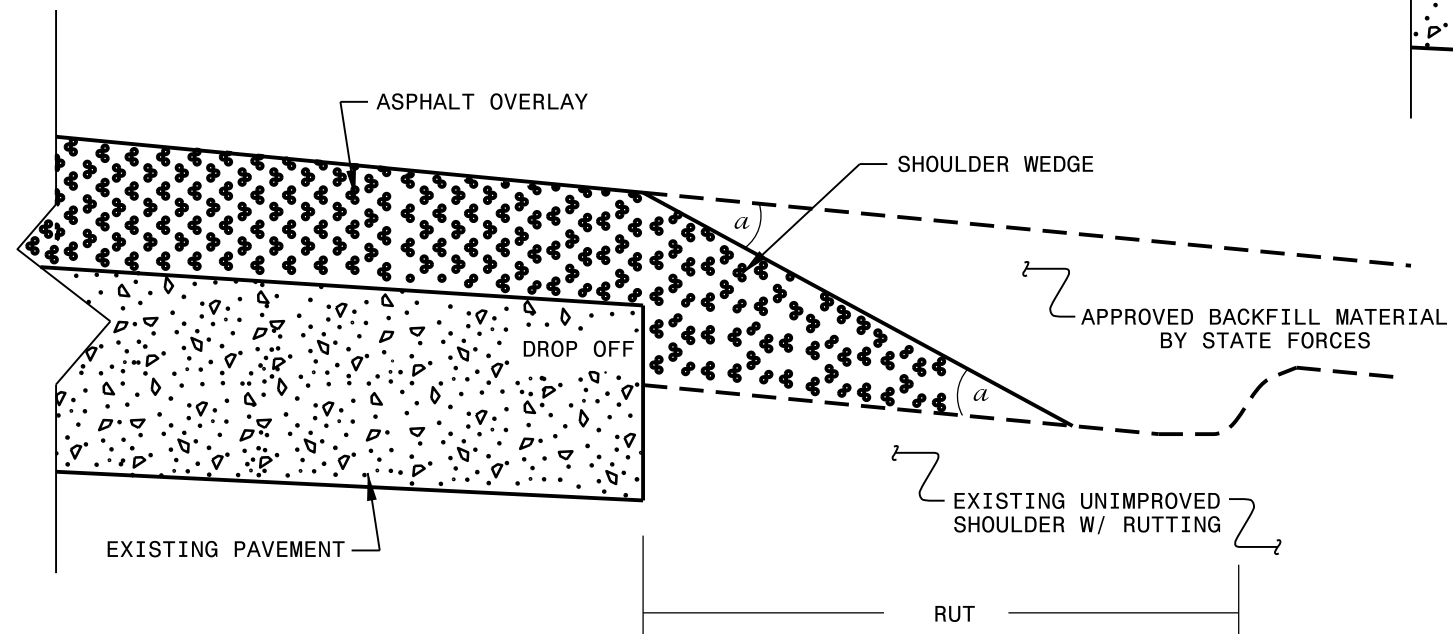


- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

**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)

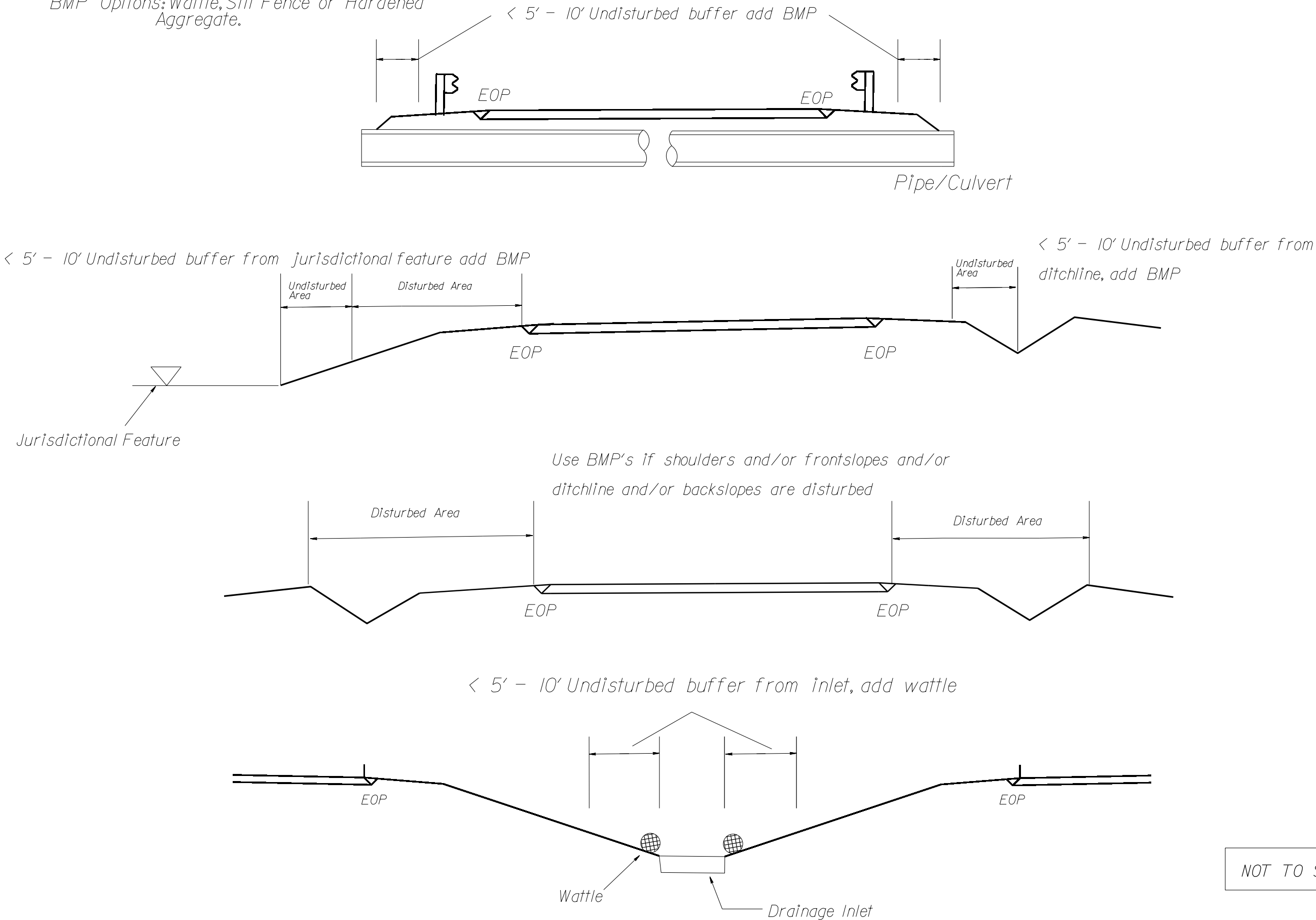
- SHOULDER WEDGE ANGLE = 30°

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:\usr\details\stand\shoulderwedgedetail.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.

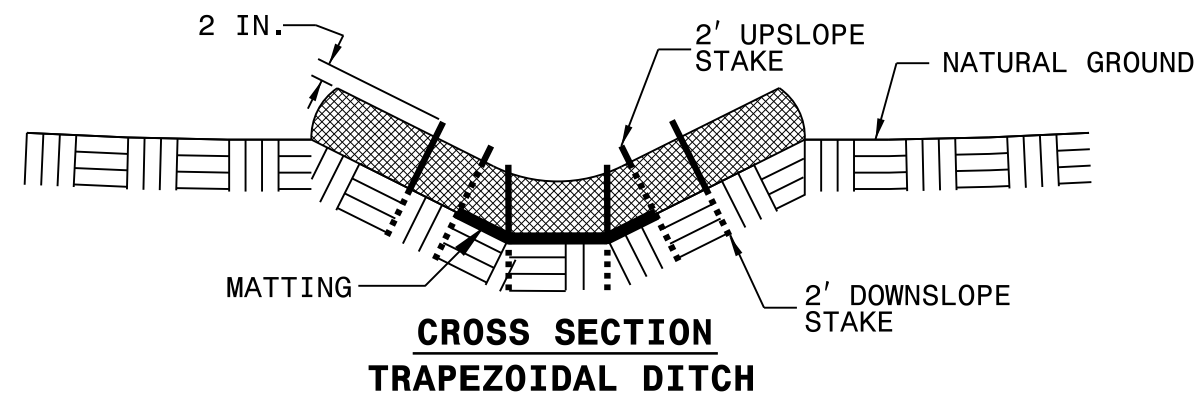
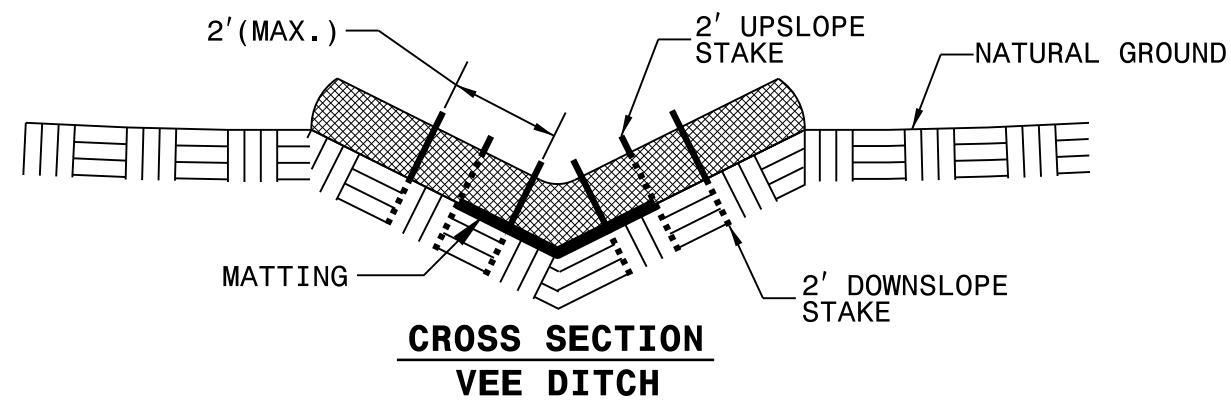
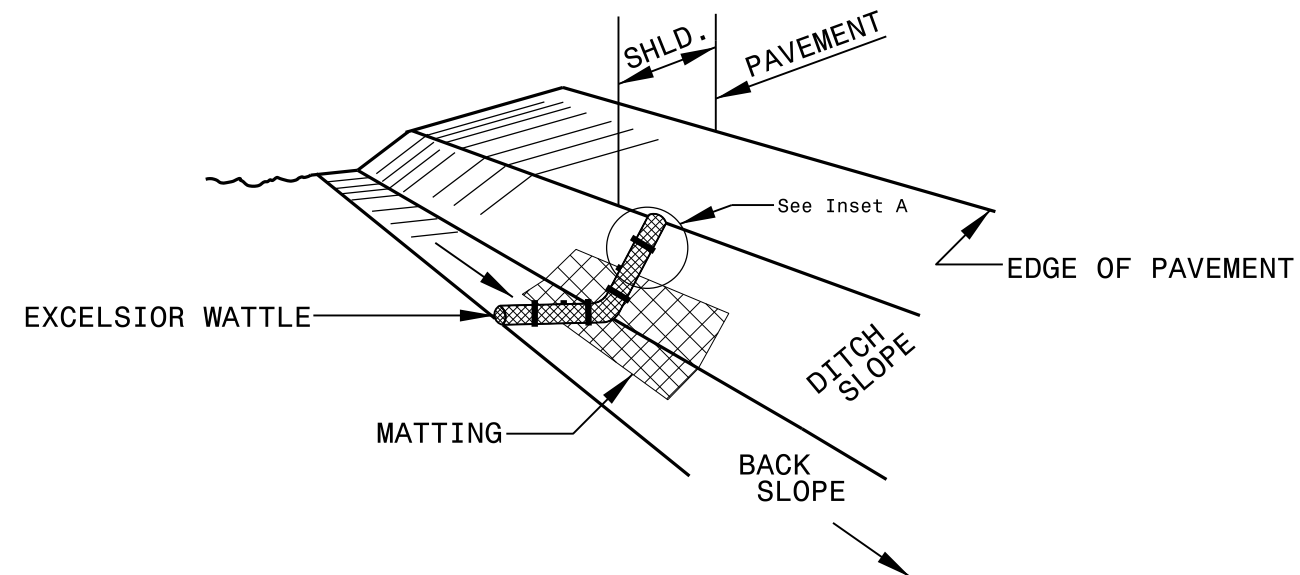
# EROSION CONTROL DETAIL



NOT TO SCALE



# 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.

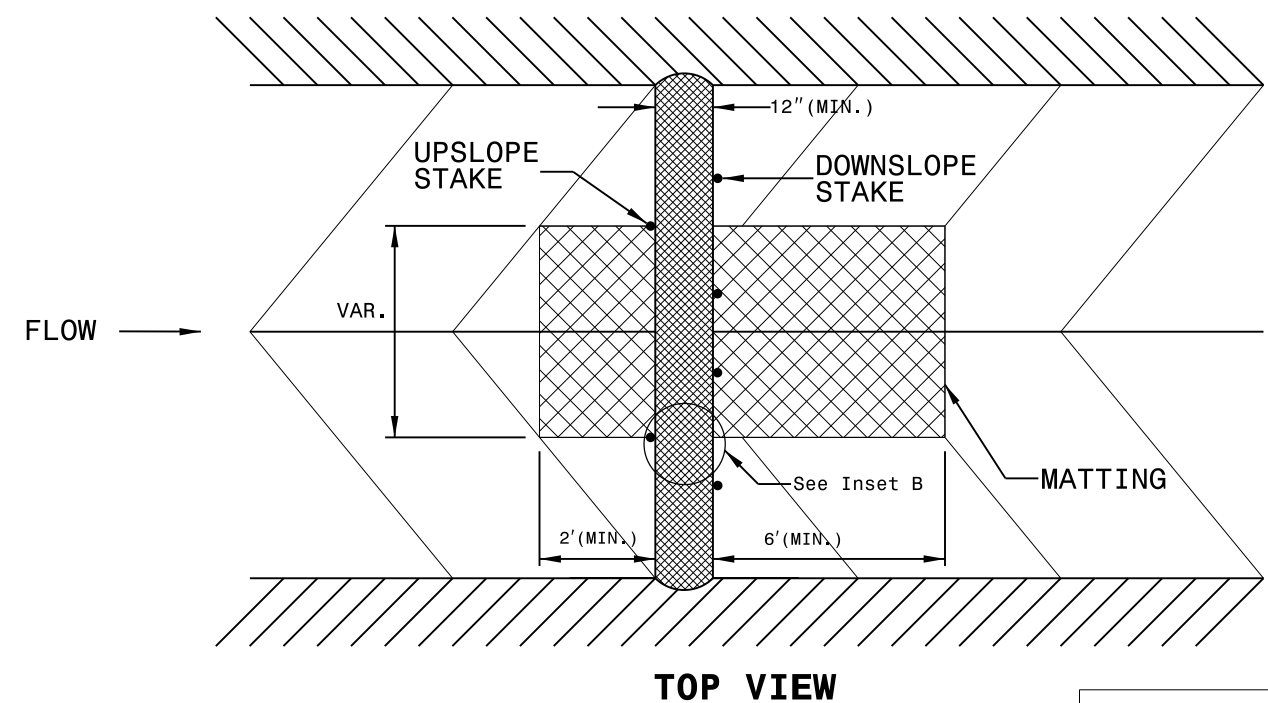
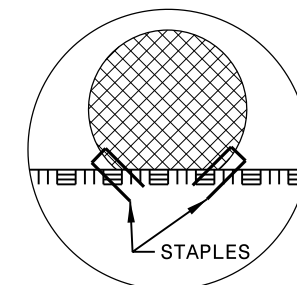
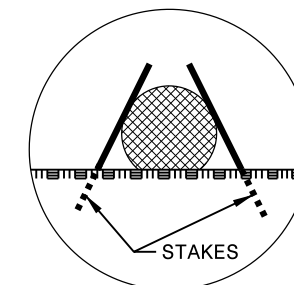
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

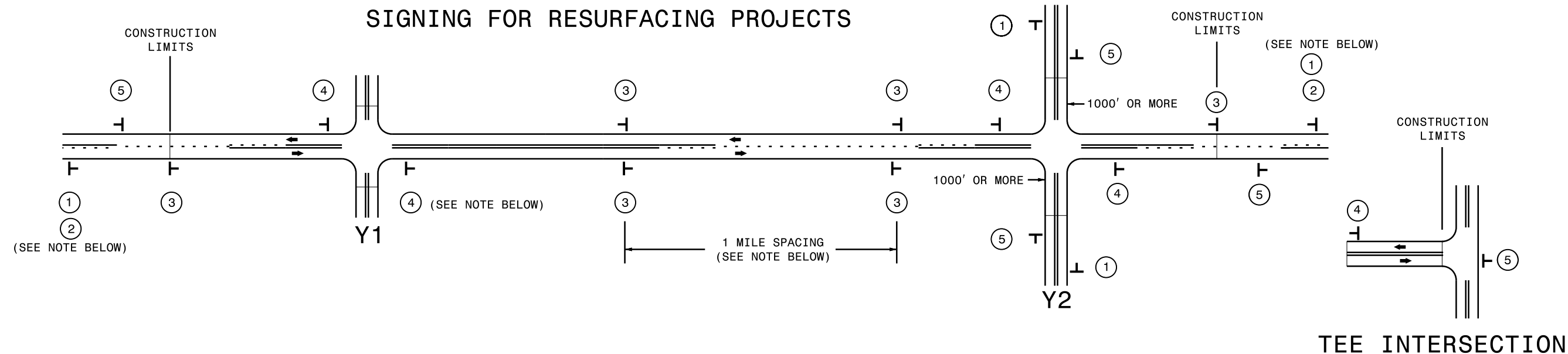
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.



NOT TO SCALE



SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1		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.	
	2			
	3		  PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.	
	4			
	5			