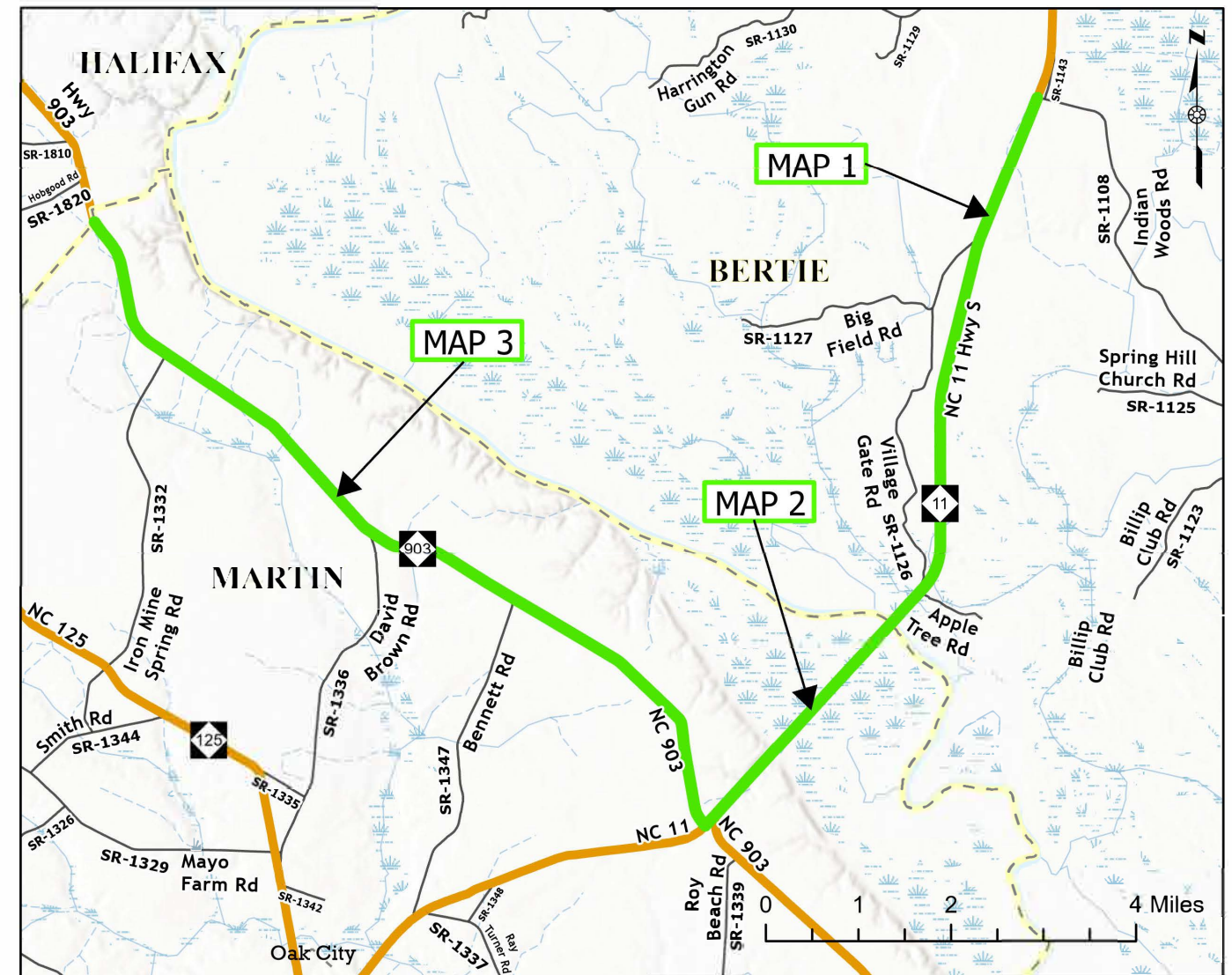


CONTRACT: DA00617

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2025CPT.01.09.10081, ETC.	1
STATE PROJECT NUMBER		DESCRIPTION
2025CPT.01.09.10081		P.E., CONST.
2025CPT.01.09.10581		P.E., CONST.

MAP	ROUTE	FROM	TO
01	NC 11	Martin Co	SR 1108 (Indian Woods Rd.)
02	NC 11	NC 903	Martin Co
03	NC 903	NC 11	Halifax Co



Prepared in the Office of:
DIVISION OF HIGHWAYS
113 AIRPORT DR., EDENTON, NC 27932

MAP	MILES
01	4.89
02	2.369
03	7.91

B. N. BRASWELL, PE
DIV. PROJ. DEVELOPMENT ENGINEER

M. S. WINSLOW
DIVISION CONTRACT ENGINEER

J. S. ABEL, JR.
DIVISION PROJECT TEAM LEAD

D. H. STALLINGS
DIVISION DESIGN ENGINEER

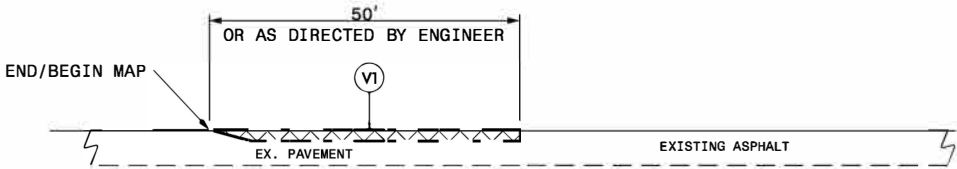


PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT, 1.50" DEPTH
M1	PROP. APPROX. 18" SINUSOIDAL RUMBLE STRIPS (CENTERLINE)
M2	PROP. APPROX. 8" SINUSOIDAL RUMBLE STRIPS (EDGE LINES)
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT

NOTES:

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.01.09.10081, ETC.	2

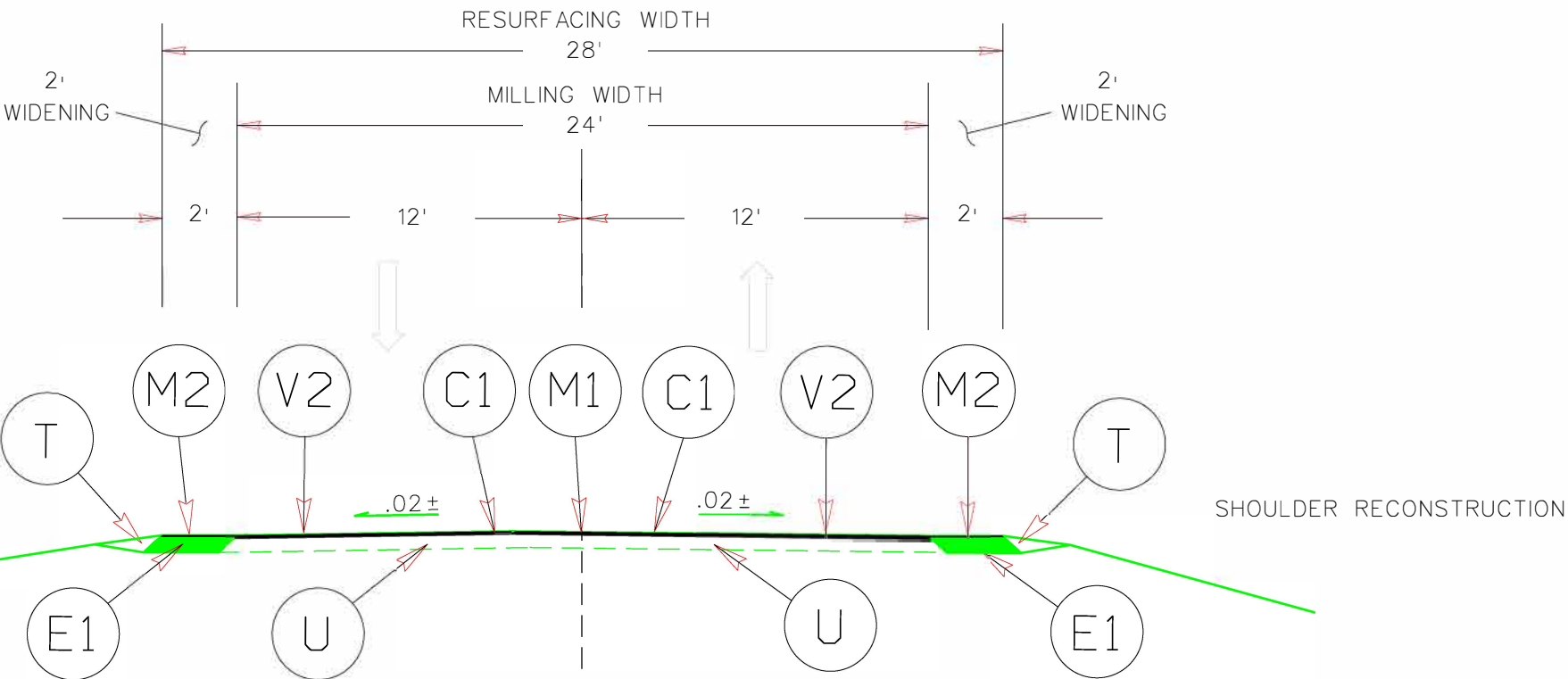
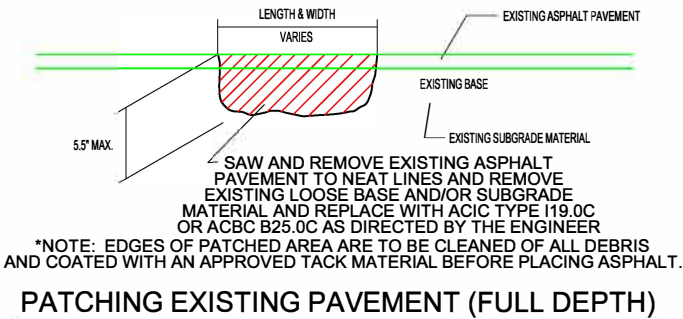
- * ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- * EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
- * 1.5" OF S9.5C TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
- * CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5C
- * CONTRACTOR SHALL INSTALL SINUSOIDAL RUMBLE STRIPS ON CENTERLINE AND EDGE LINES OF MAPS 1 & 2
- * SHOULDER WEDGE SHALL BE USED ON ALL ROADS 22' OR WIDER OR AS DIRECTED BY THE ENGINEER



DETAIL 1

MAIN LINE MILLING

- NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
 2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



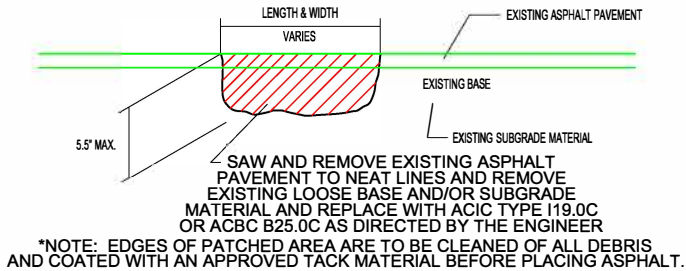
TYPICAL SECTION NO. 1
USE WITH MAPS 1 & 2

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V2	MILLING ASPHALT PAVEMENT, 1.50" DEPTH
U	EXISTING PAVEMENT

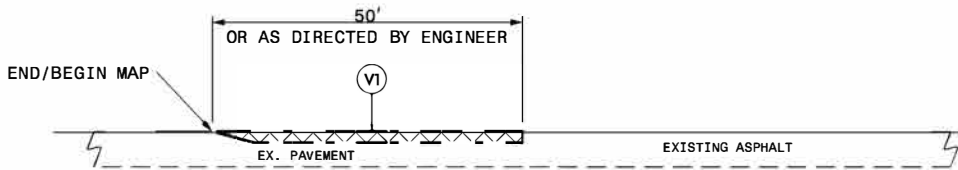
NOTES:

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.01.09.10081, ETC.	3

- * ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- * EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
- * 1.5" OF S9.5C TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
- * CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5C
- * SHOULDER WEDGE SHALL BE USED ON ALL ROADS 22' OR WIDER OR AS DIRECTED BY THE ENGINEER



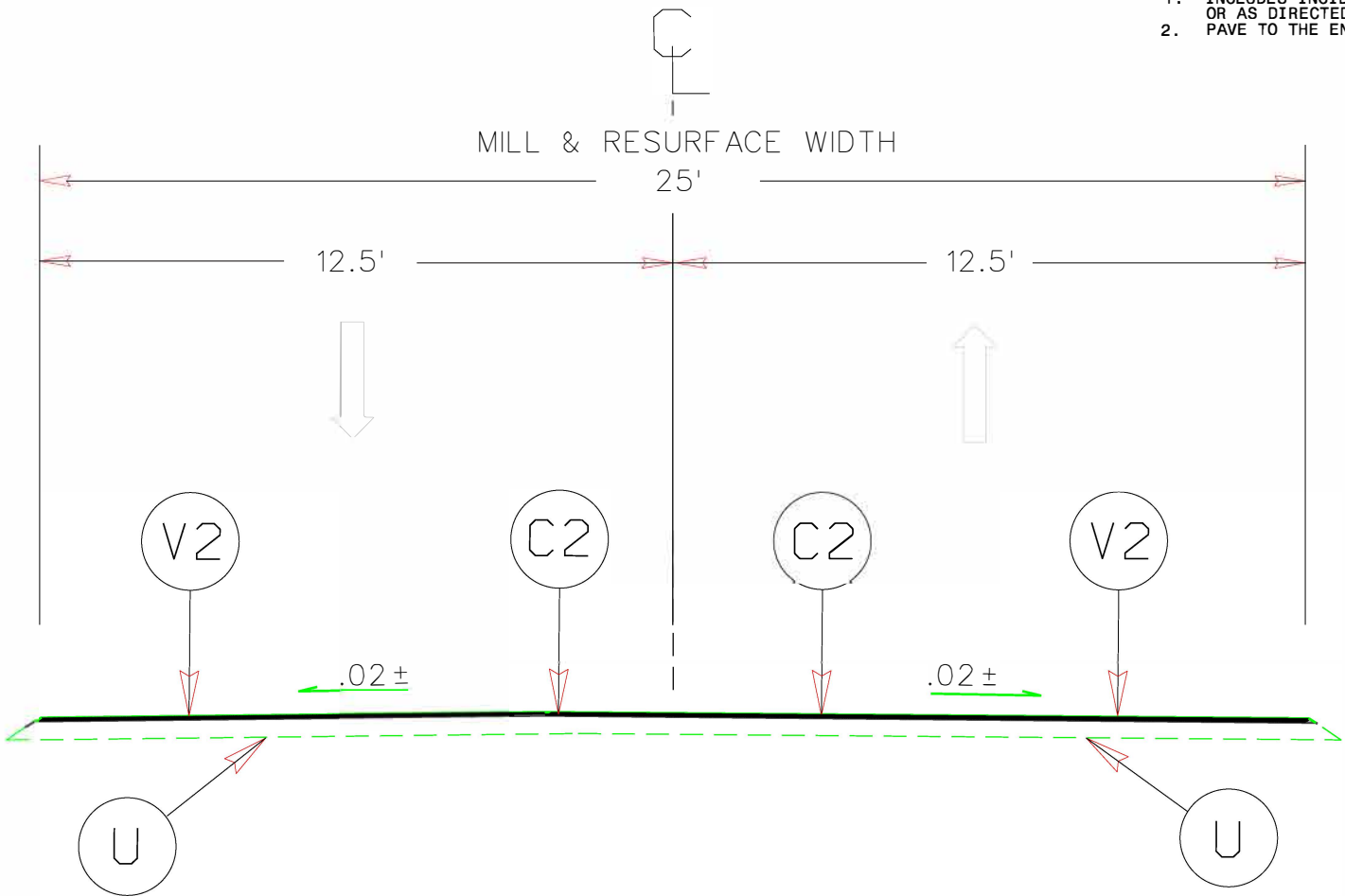
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

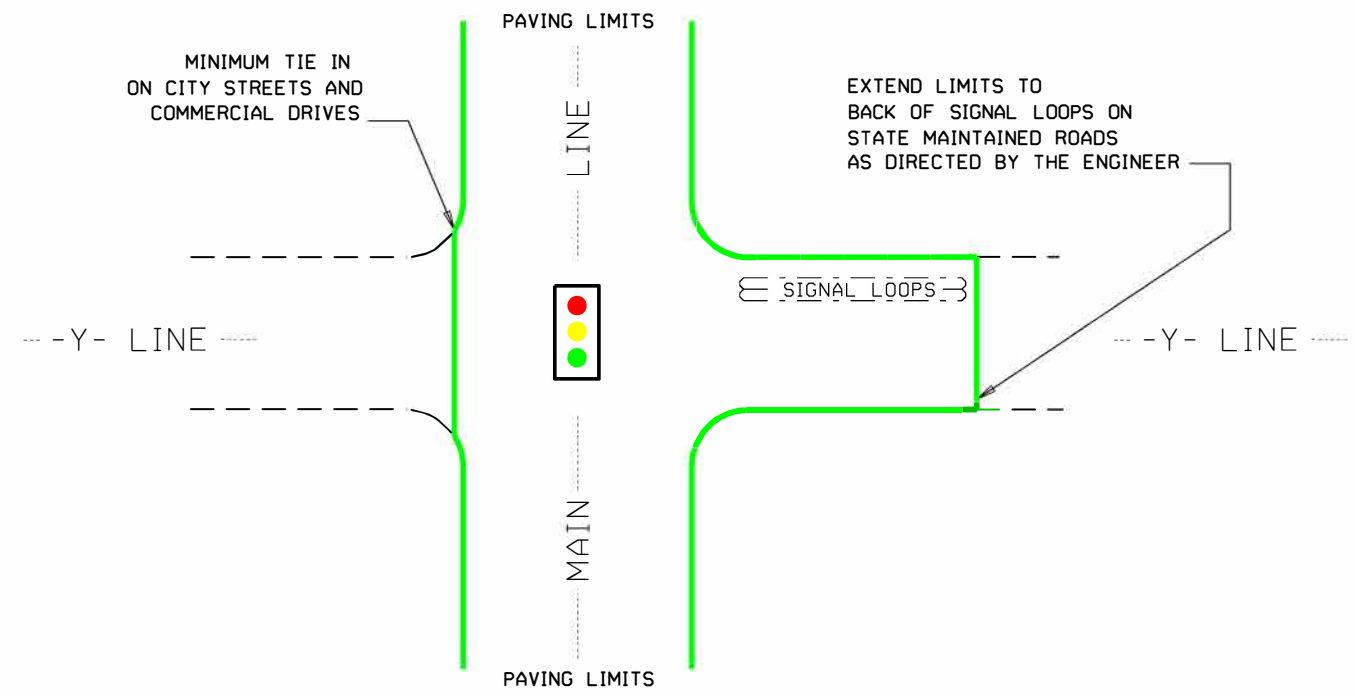
MAIN LINE MILLING

- NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
 2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.

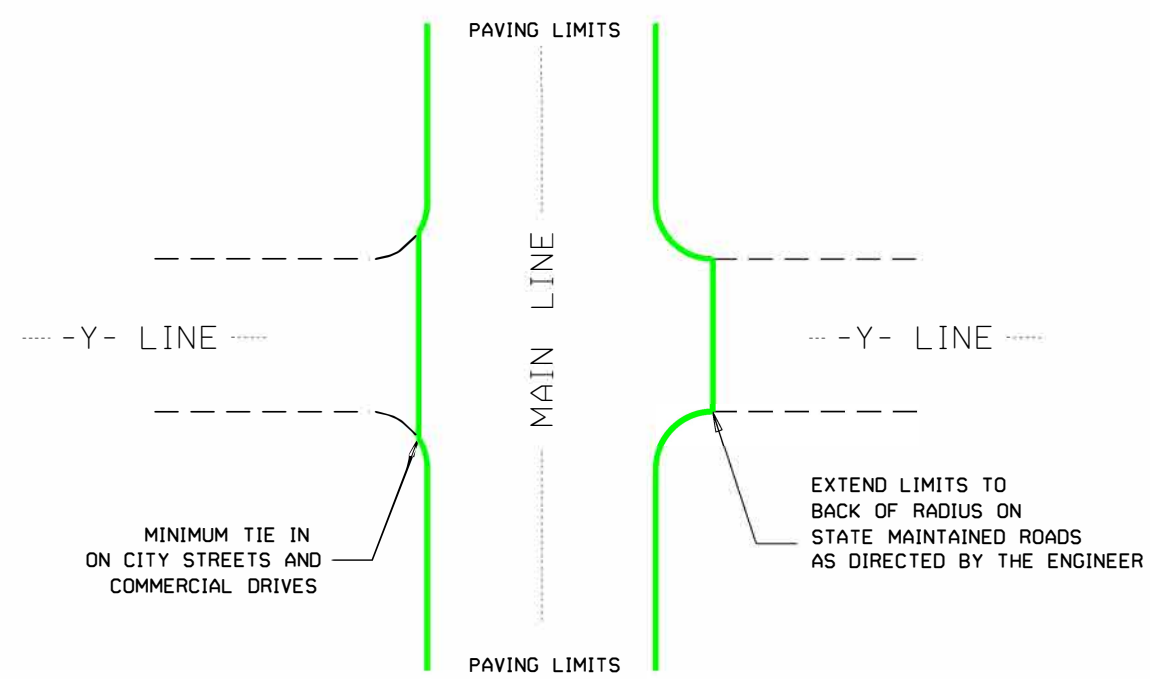


TYPICAL SECTION NO. 2

USE WITH MAP 3



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES

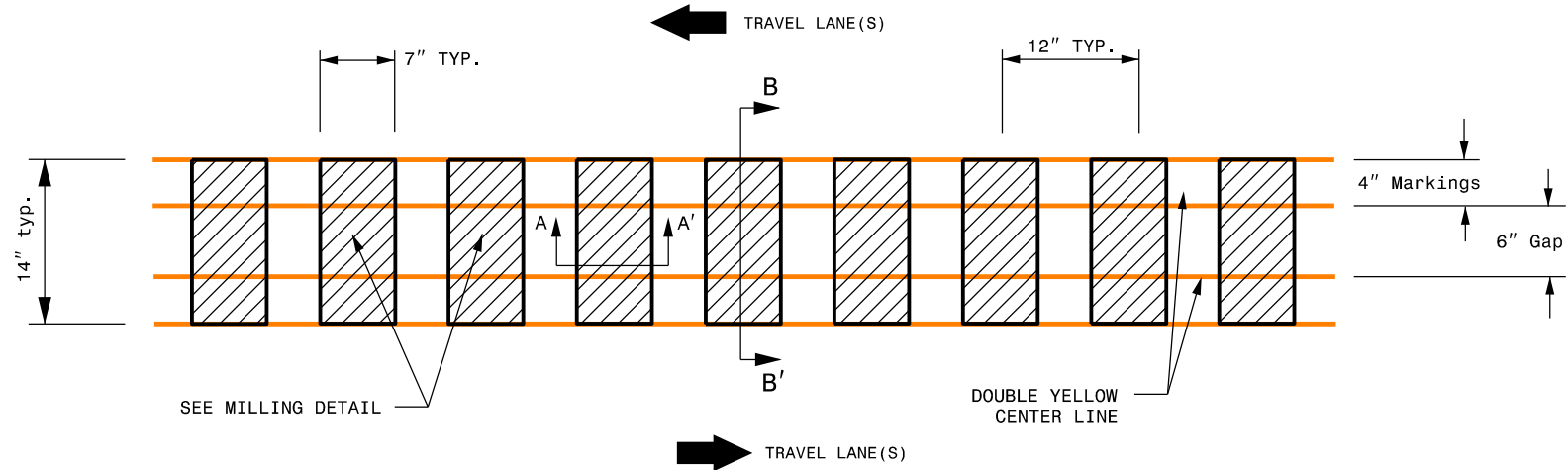


TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

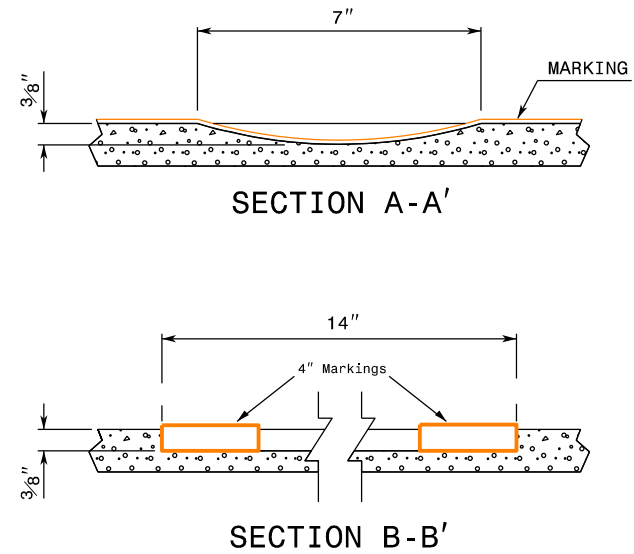
ADDITIONAL INTERSECTIONS (NON-TYPICAL)		
Extend paving limits to back of radius or loop on the following intersections:		
MAP#	STREET NAME	COMMENTS
	PAVE ALL STATE OWNED & TOWN STREETS	
	TO BACK OF RADIUS FOR THIS PROJECT	

See Table 2 within Rumble Strip
Policy for Design Guidance

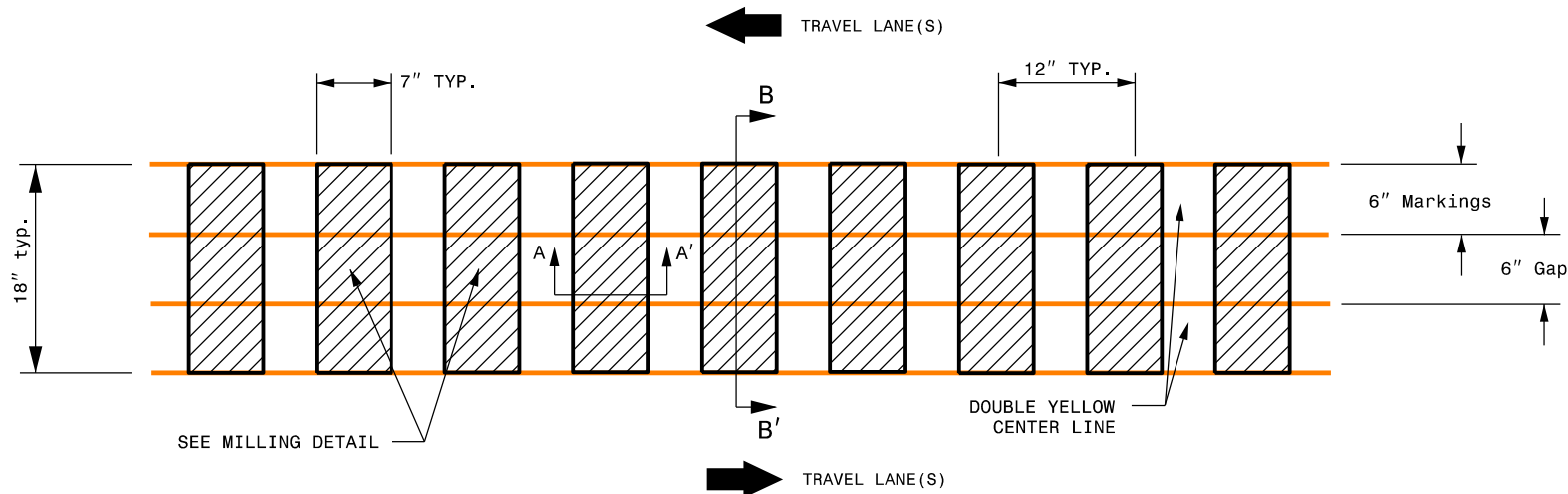
If 4" Markings will be used:



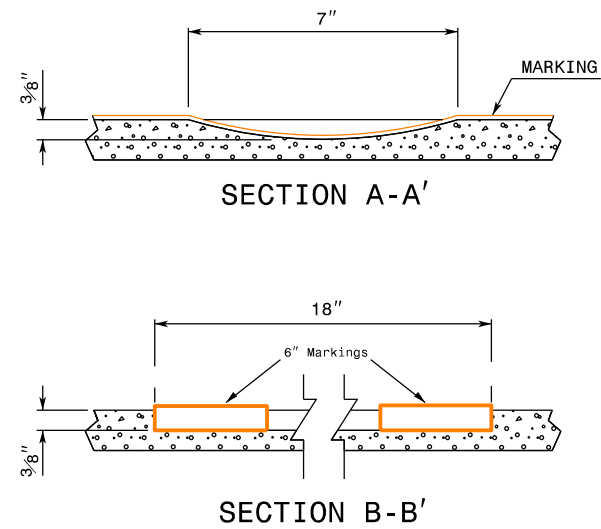
MILLING DETAIL - 4" Markings



If 6" Markings will be used:



MILLING DETAIL - 6" Markings

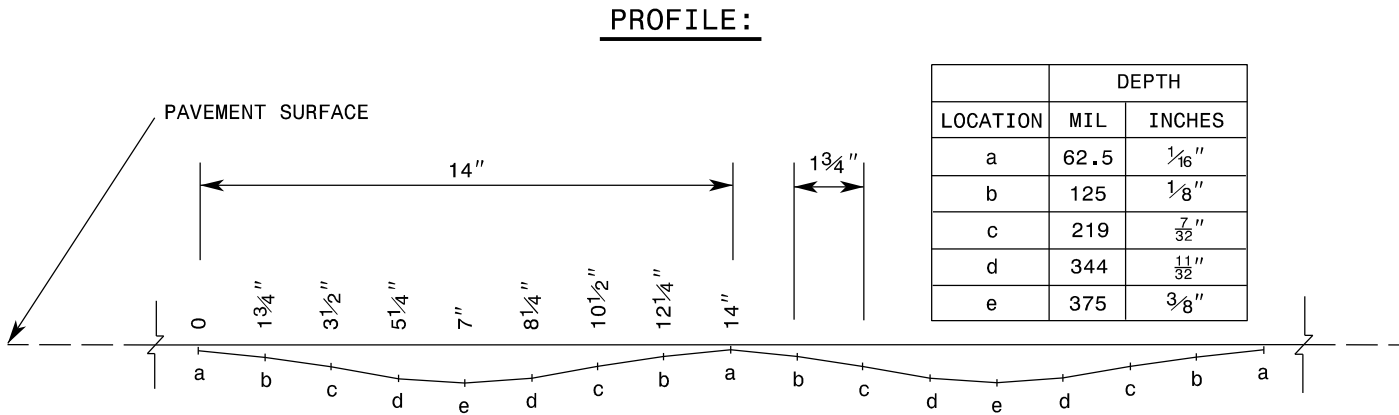
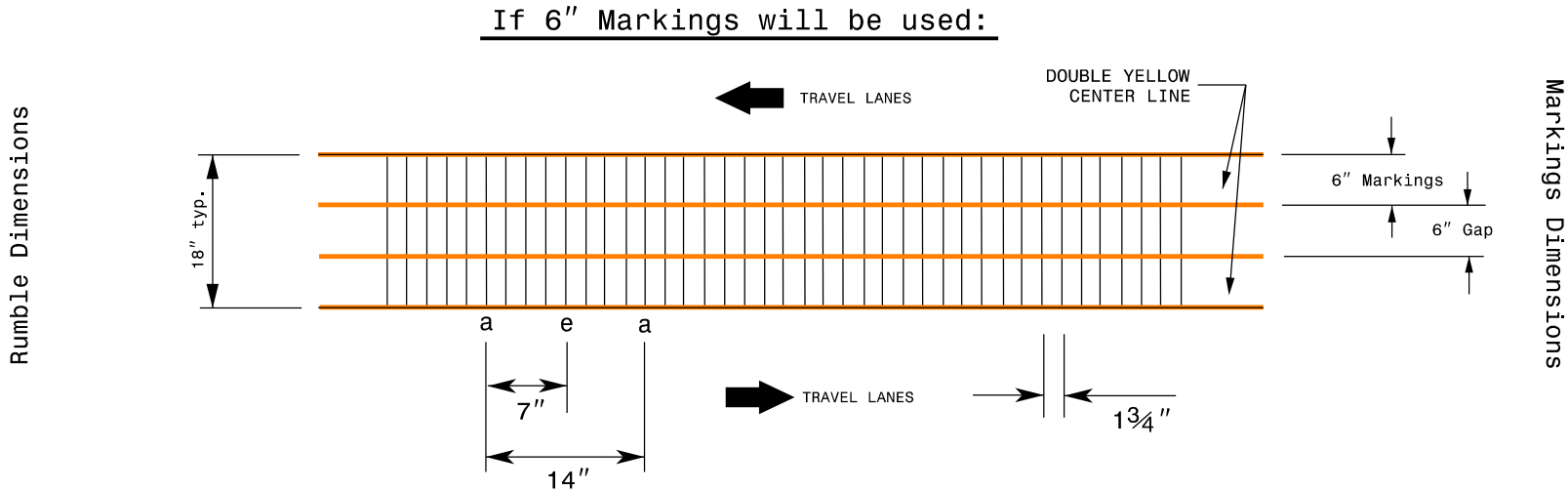
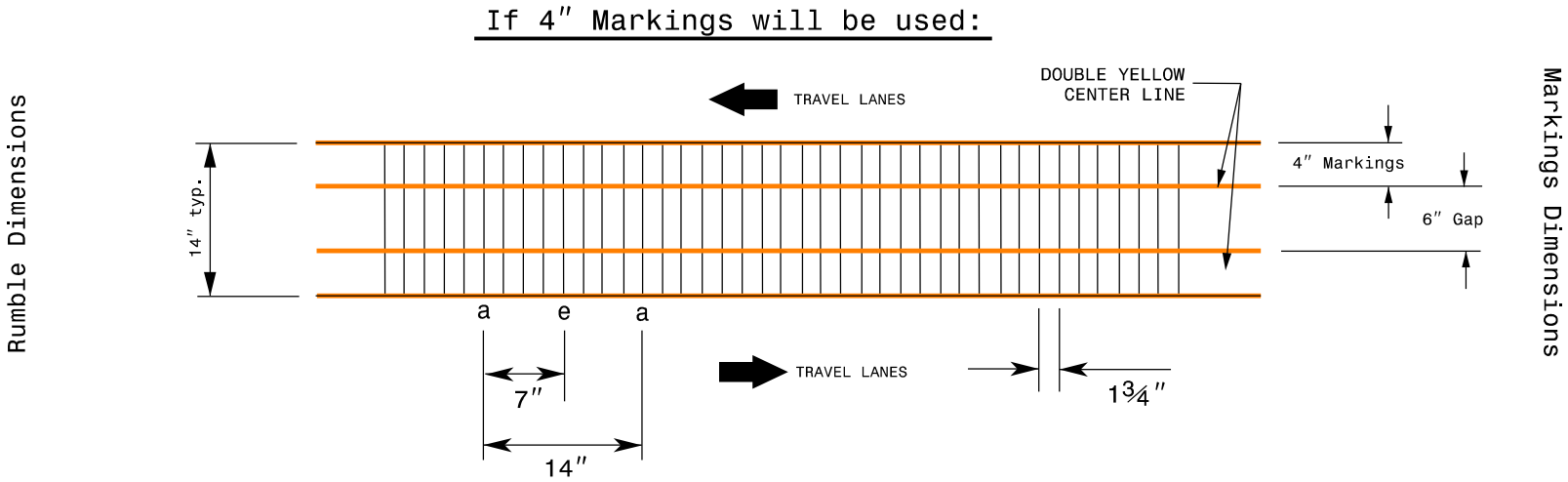


REFERENCE DRAWING ID: Trad.CL

NOTES:

- 1) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.

See Table 2 within Rumble Strip
Policy for Design Guidance

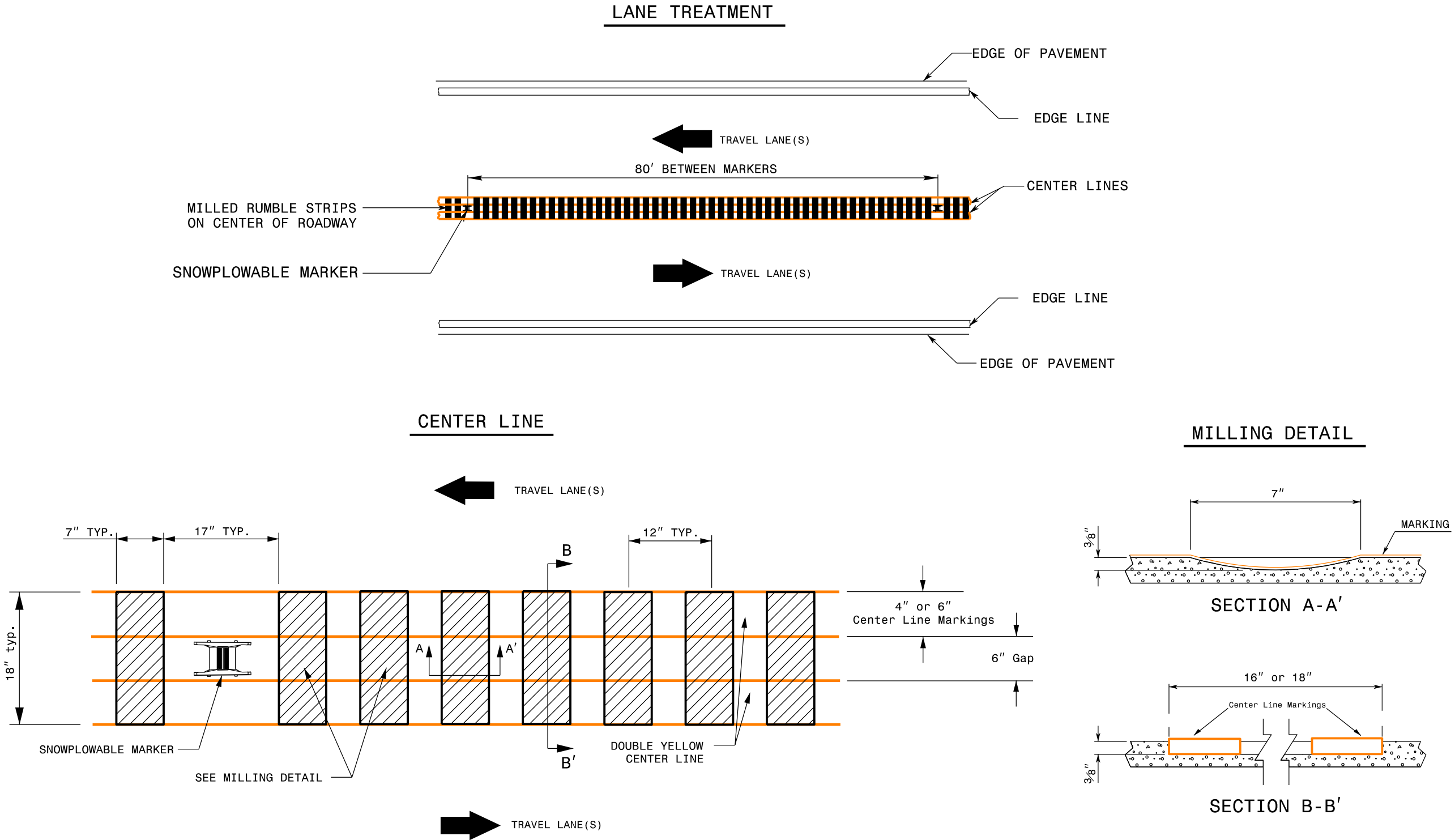


REFERENCE DRAWING ID: Sin.CL

NOTES:

- 1) Specification in table taken from MNDOT Research Project Final Report 2016-23: *Sinusoidal Rumble Strip Design Optimization Study By: Terhaar et. al. June 2016*
- 2) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 3) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.

See Table 2 within Rumble Strip
Policy for Design Guidance

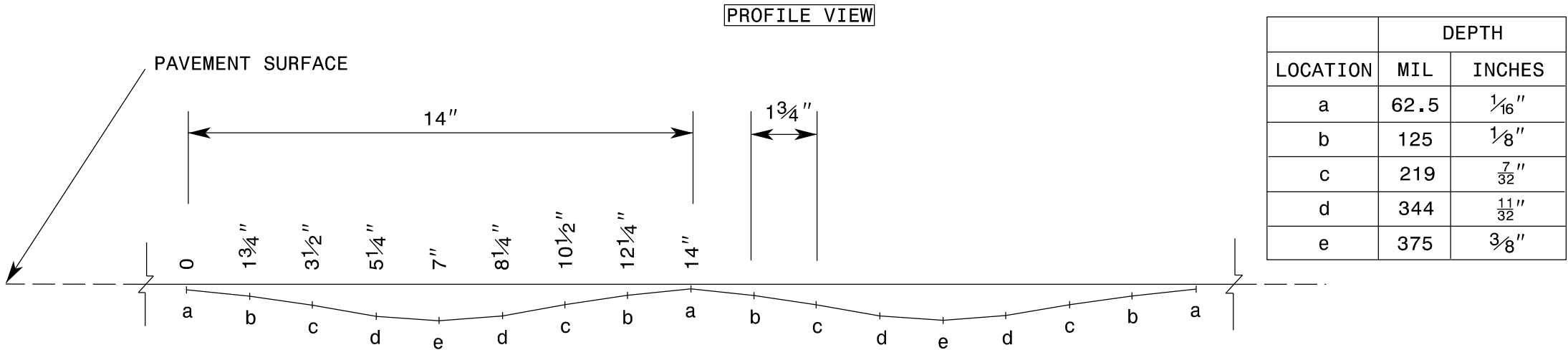
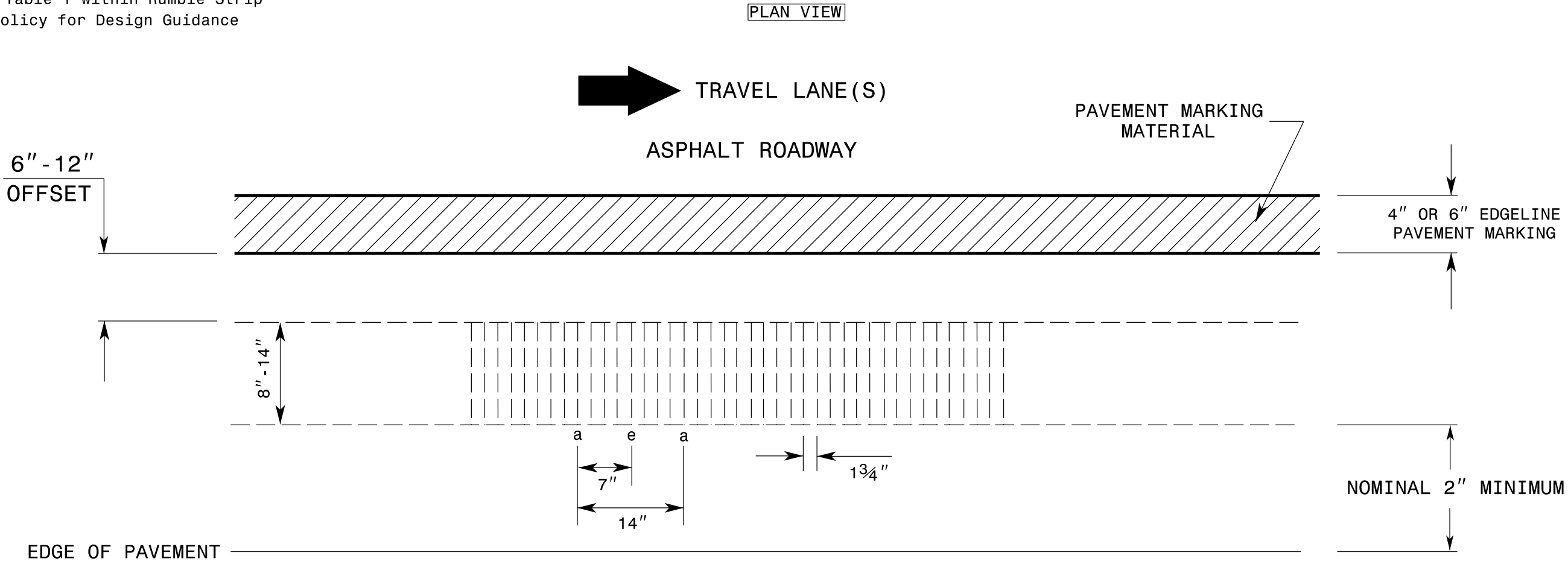


REFERENCE DRAWING ID: Trad.CL with Snowplowable Markers

NOTES:

- 1) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 3) INSTALL SNOWPLOWABLE MARKERS AT APPROXIMATELY 80' INCREMENTS. DO NOT MILL RUMBLE STRIPS IN SECTION WHERE SNOWPLOWABLE MARKERS ARE INSTALLED.

See Table 1 within Rumble Strip
Policy for Design Guidance



LOCATION	DEPTH	
	MIL	INCHES
a	62.5	1/16"
b	125	1/8"
c	219	7/32"
d	344	11/32"
e	375	3/8"

REFERENCE DRAWING ID: Sin.Strip

NOTES:

1) Specification in table taken from MNDOT Research Project Final Report 2016-23: *Sinusoidal Rumble Strip Design Optimization Study By: Terhaar et. al, June 2016*

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.01.09.10081, ETC.	8	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	EXISTING WIDTH	PROPOSED WIDTH	BEGIN MP	END MP	MATERIAL TRANSFER VEHICLE REQUIRED	0000100000-N MOBILIZATION	1220000000-E INCIDENTAL STONE BASE	1245000000-E SHOULDER RECONSTRUCTION	1297000000-E MILLING ASPHALT PAVEMENT (1½")	1330000000-E INCIDENTAL MILLING	1491000000-E ASPHALT CONC BASE COURSE, B25.0C	1523000000-E ASPHALT CONC SURFACE COURSE, S9.5C
								MI	FT	FT				LS	TONS	SMI	SY	SY	TONS	TONS
2025CPT.01.09.10081	Bertie	1	NC-11 N / NC 11 HWY S	FROM MARTIN CO TO SR 1108 (INDIAN WOODS RD.)	1	2	2WU	4.89	24	28	0	4.89	YES	1	48	4.89	78,360	1,593	3,973	7,455
TOTAL FOR PROJ NO. 2025CPT.01.09.10081								4.89							48	4.89	78,360	1,593	3,973	7,455
2025CPT.01.09.10581	Martin	2	NC-11 N / NC 11	FROM NC 903 TO MARTIN CO	1	2	2WU	2.369	24	28	12.76	15.129	YES	*	10	2.37	36,180	965	1,900	3,421
2025CPT.01.09.10581	Martin	3	NC-903	FROM NC 11 TO HALIFAX CO	2	2	2WU	7.91	25	25	19.24	27.15	YES	*	209		116,013	1,718		10,933
TOTAL FOR PROJ NO. 2025CPT.01.09.10581								10.279							219	2.37	152,193	2,683	1,900	14,354
GRAND TOTAL								15.169						1	267	7.26	230,553	4,276	5,873	21,809

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	EXISTING WIDTH	PROPOSED WIDTH	BEGIN MP	END MP	1575000000-E ASPHALT BINDER FOR PLANT MIX	1705000000-E PATCHING EXISTING PAVEMENT (FULL DEPTH)	1881000000-E GENERIC PAVING ITEM (SINUSOIDAL MILLED RUMBLE STRIPS, 18")	1881000000-E GENERIC PAVING ITEM (SINUSOIDAL MILLED RUMBLE STRIPS, 8")	6000000000-E TEMPORARY SILT FENCE	6071012000-E COIR FIBER WATTLE	6084000000-E SEEDING & MULCHING	6117000000-N RESPONSE FOR EROSION CONTROL
								MI	FT	FT			TONS	TON	LF	LF	LF	LF	ACR	EA
2025CPT.01.09.10081	Bertie	1	NC-11 N / NC 11 HWY S	FROM MARTIN CO TO SR 1108 (INDIAN WOODS RD.)	1	2	2WU	4.89	24	28	0	4.89	619	16	25,819	51,638	100	60	4.7	1
TOTAL FOR PROJ NO. 2025CPT.01.09.10081								4.89					619	16	25,819	51,638	100	60	4.7	1
2025CPT.01.09.10581	Martin	2	NC-11 N / NC 11	FROM NC 903 TO MARTIN CO	1	2	2WU	2.369	24	28	12.76	15.129	288	16	12,508	25,017	150	237	2.3	1
2025CPT.01.09.10581	Martin	3	NC-903	FROM NC 11 TO HALIFAX CO	2	2	2WU	7.91	25	25	19.24	27.15	647	40						
TOTAL FOR PROJ NO. 2025CPT.01.09.10581								10.279					935	56	12,508	25,017	150	237	2.3	1
GRAND TOTAL								15.169					1,554	72	38,327	76,655	250	297	7.0	2

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.01.09.10081, ETC.	9	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E WORK ZONE ADVANCE / GENERAL WARNING SIGNING	4457000000-N TEMPORARY TRAFFIC CONTROL (SP)	4687000000-E THERMOPLASTIC PAVEMENT MARKING LINES (4", 240 MILS)	4688000000-E		4700000000-E THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	4709000000-E THERMOPLASTIC PAVEMENT MARKING LINES (24" 90 MILS)
								MI	FT			SF	LS	LF	LF	LF	LF	LF
2025CPT.01.09.10081	Bertie	1	NC-11 N / NC 11 HWY S	FROM MARTIN CO TO SR 1108 (INDIAN WOODS RD.)	1	2	2WU	4.89	24	0	4.89	211	1		51,638	32,274		
TOTAL FOR PROJ NO. 2025CPT.01.09.10081								4.89				211			51,638	32,274		
															83,912			
2025CPT.01.09.10581	Martin	2	NC-11 N / NC 11	FROM NC 903 TO MARTIN CO	1	2	2WU	2.369	24	12.76	15.129	147	*		25,017	18,604	161	30
2025CPT.01.09.10581	Martin	3	NC-903	FROM NC 11 TO HALIFAX CO	2	2	2WU	7.91	25	19.24	27.15	310	*	216.00	83,530	53,206		20
TOTAL FOR PROJ NO. 2025CPT.01.09.10581								10.279				457		216	108,547	71,810	161	50
															180,357			
GRAND TOTAL								15.169				668	1	216	160,185	104,084	161	50
															264,269			

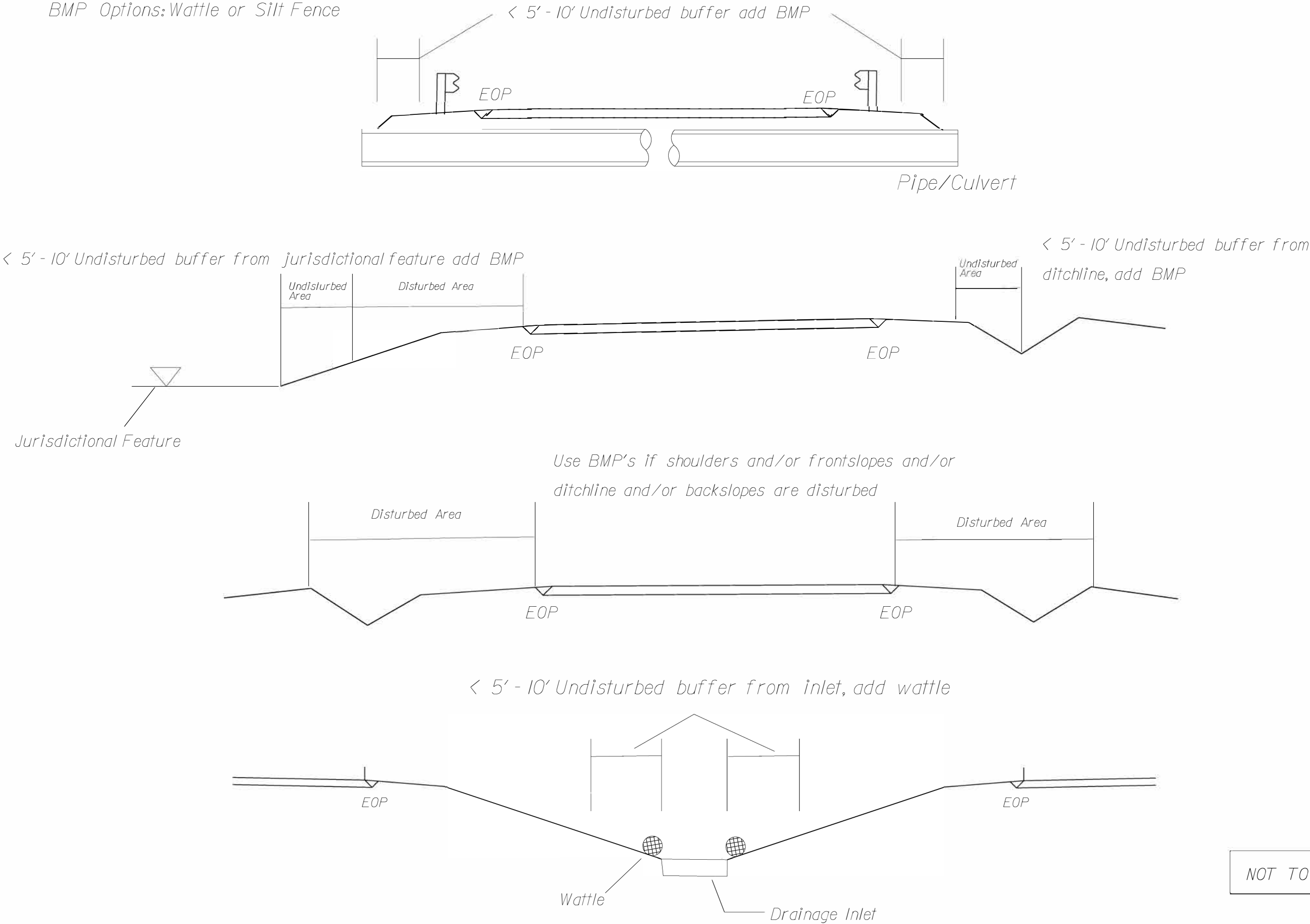
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4725000000-E THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), LT ARROW	4810000000-E		4825000000-E PAINT PAVEMENT MARKING LINES (12")	4835000000-E PAINT PAVEMENT MARKING LINES (24")	4845000000-N PAINT PAVEMENT MARKING SYMBOL (LT ARROW)	4895000000-N GENERIC PAVEMENT MARKING ITEM (POLYCARBONATE H- SHAPED MARKERS)
								MI	FT			EA	LF	LF	LF	LF	EA	EA
2025CPT.01.09.10081	Bertie	1	NC-11 N / NC 11 HWY S	FROM MARTIN CO TO SR 1108 (INDIAN WOODS RD.)	1	2	2WU	4.89	24	0	4.89		51,638	32,274				323
TOTAL FOR PROJ NO. 2025CPT.01.09.10081								4.89					51,638	32,274				323
													83,912					
2025CPT.01.09.10581	Martin	2	NC-11 N / NC 11	FROM NC 903 TO MARTIN CO	1	2	2WU	2.369	24	12.76	15.129	1	25,017	18,604	161	30	1	156
2025CPT.01.09.10581	Martin	3	NC-903	FROM NC 11 TO HALIFAX CO	2	2	2WU	7.91	25	19.24	27.15		83,530	53,206		20		522
TOTAL FOR PROJ NO. 2025CPT.01.09.10581								10.279				1	108,547	71,810	161	50	1	678
													180,357					
GRAND TOTAL								15.169				1	160,185	104,084	161	50	1	1,001
													264,269					

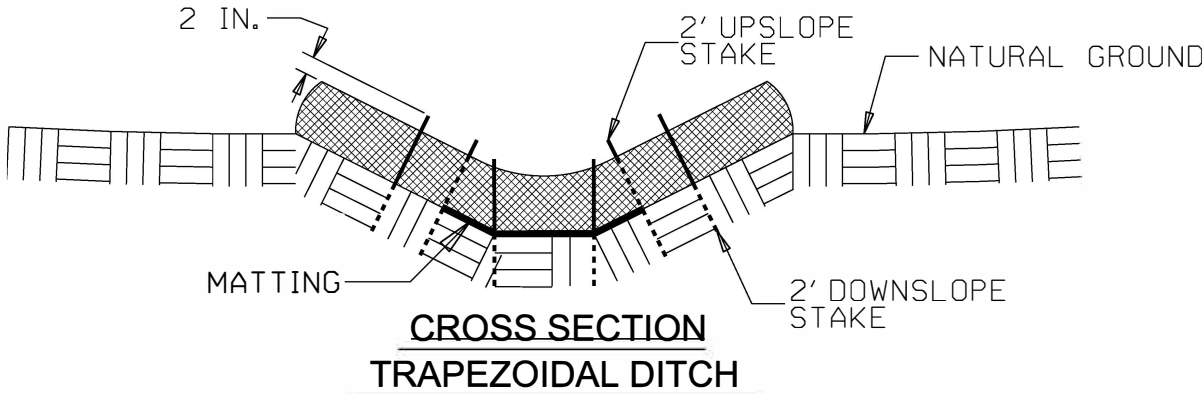
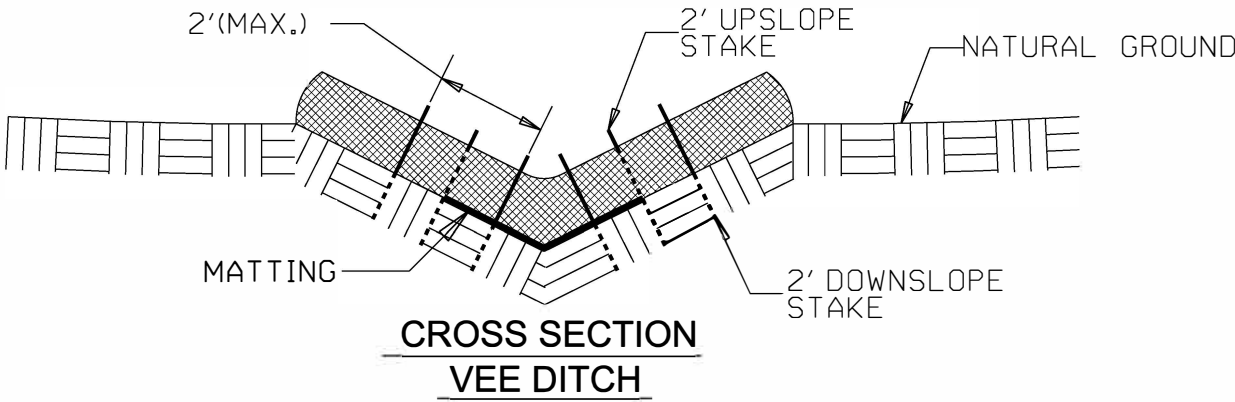
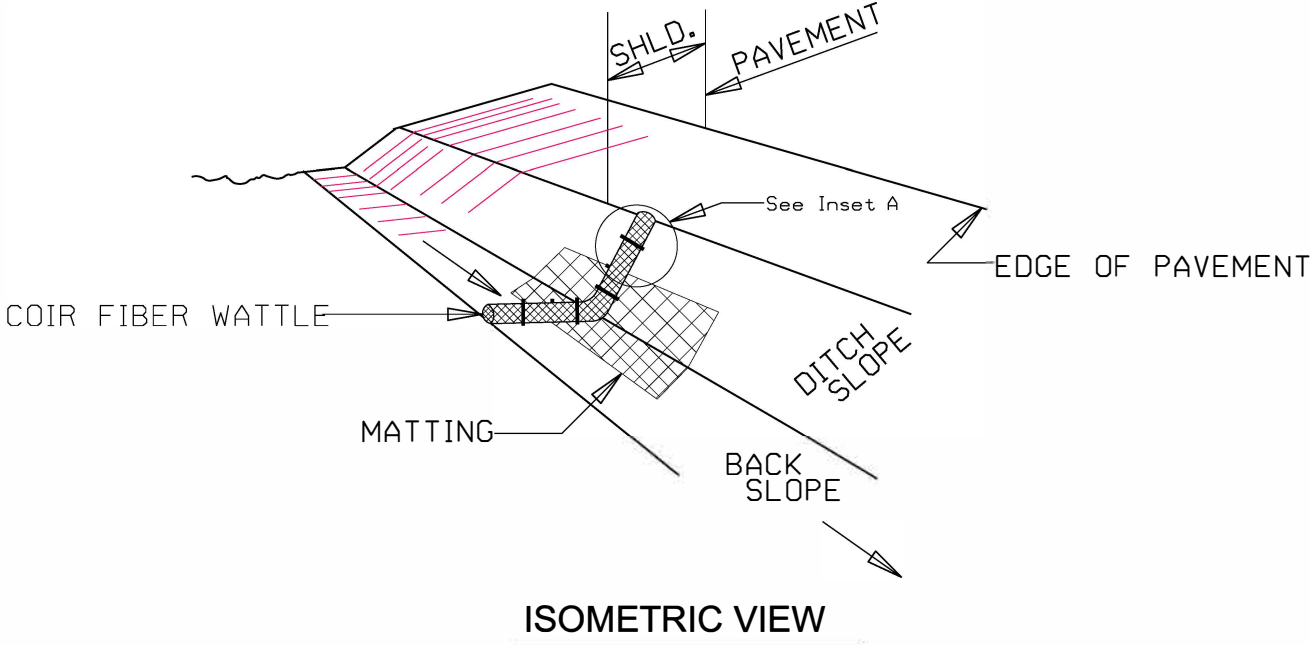
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL



COIR FIBER WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

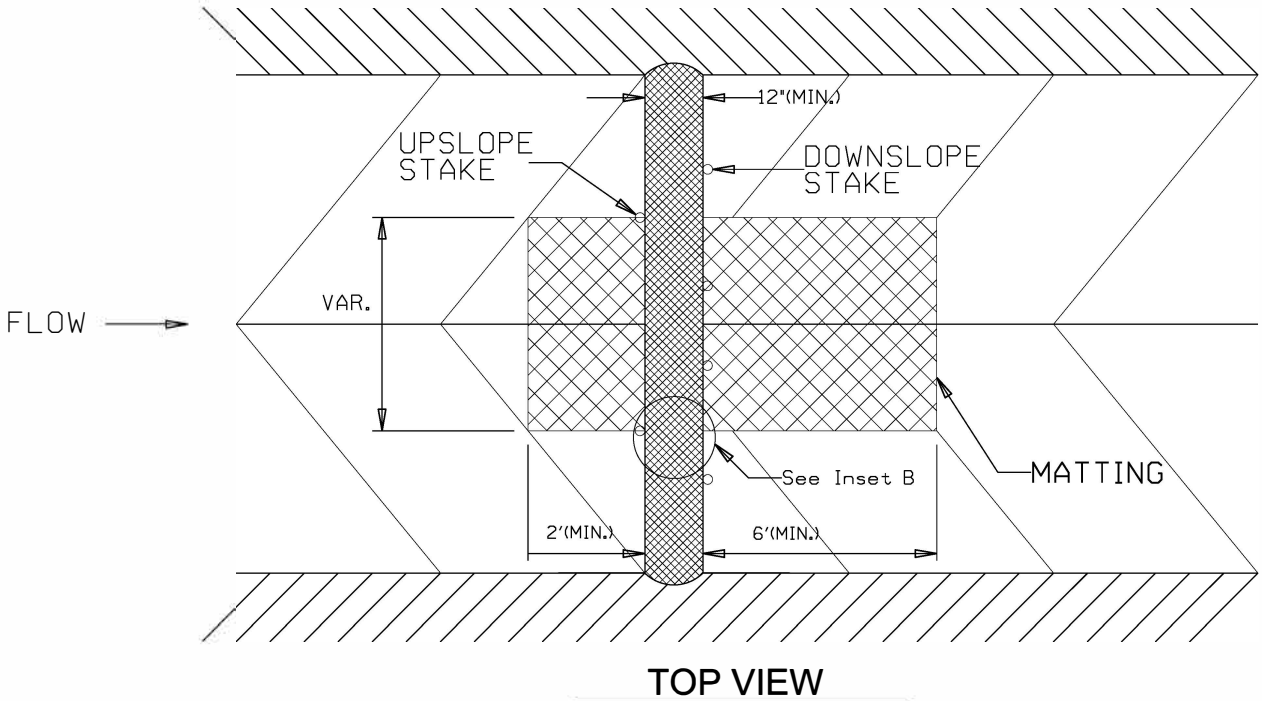
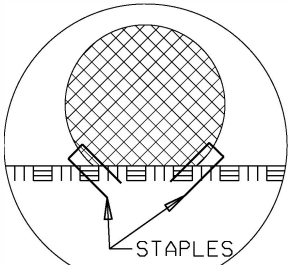
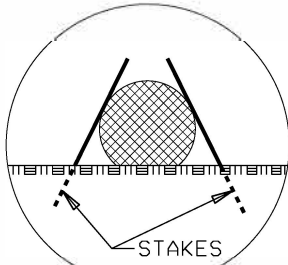
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

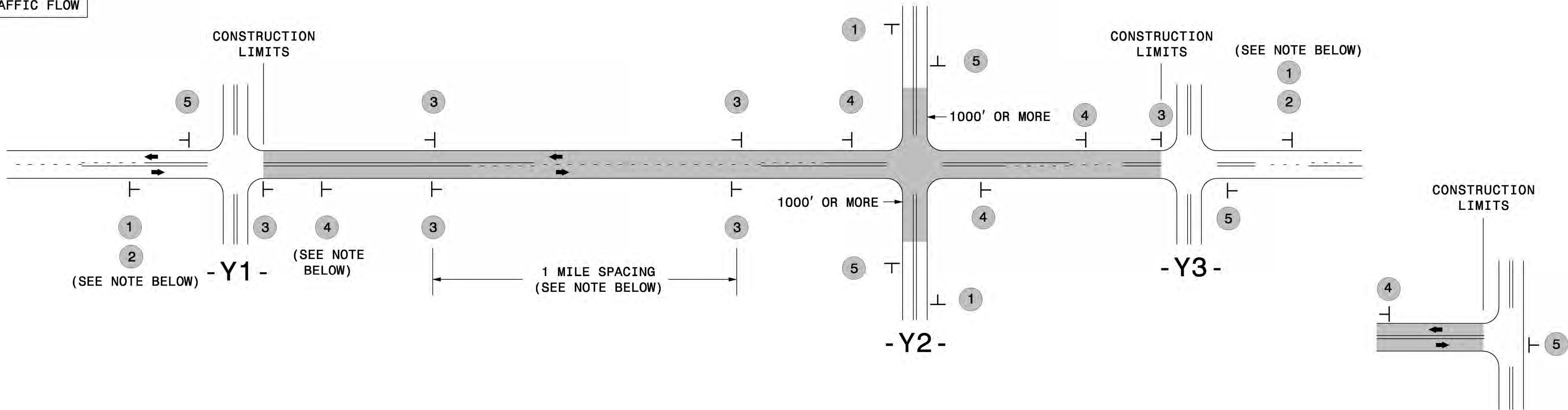
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS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

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<div><div>1</div><div><div><div>ROAD WORK AHEAD</div><div>W20-1 48" X 48"</div><div><div>NEXT XX MILES</div><div>W7-3aP 24" X 18"</div></div></div></div><div>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</div><div>#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</div></div>	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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK. <div><div><div>ROAD WORK AHEAD</div><div>W20-1 48" X 48"</div></div><div>PLACED 500' IN ADVANCE OF FLAGGER.</div></div> <div><div><div><div></div><div></div></div><div>W20-7 A 48" X 48"</div></div><div>PLACED 250' IN ADVANCE OF FLAGGER.</div></div>
	<div><div>3</div><div><div><div>LOW/SOFT SHOULDER</div><div>SP 13107 48" X 48"</div></div></div><div>- 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.</div></div>	
	<div><div>4</div><div><div><div>ROAD UNDER CONST</div><div>SP 13106 48" X 48"</div></div></div><div>- 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.</div></div>	
	<div><div>5</div><div><div><div>END ROAD WORK</div><div>G20-2 A 48" X 24"</div></div></div><div>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</div></div>	
	THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.	
LESS 2 MILES	FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.	

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

AD



ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING