

STATE OF NORTH CAROLINA

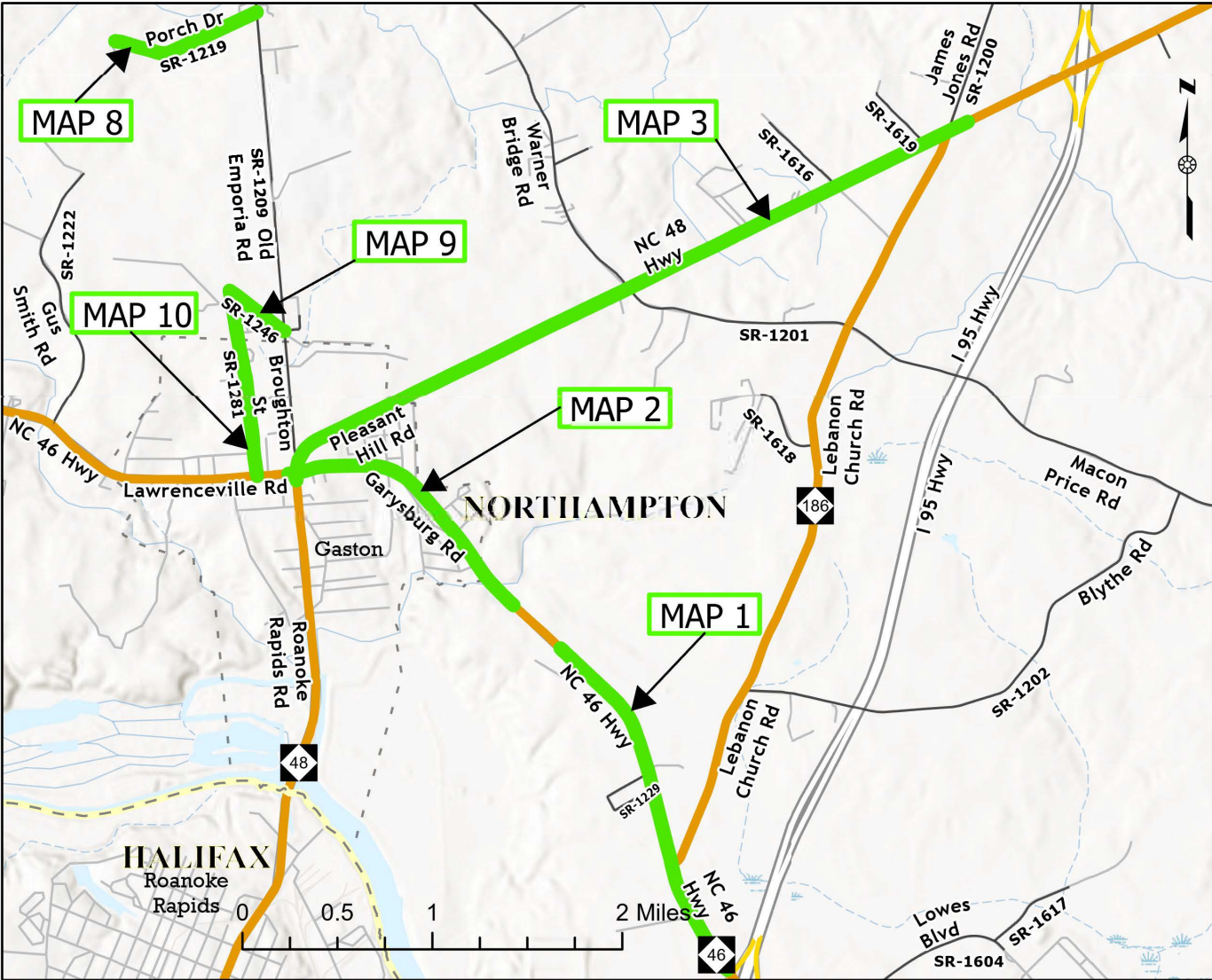
DIVISION OF HIGHWAYS

NORTHAMPTON

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2025CPT.01.10.10661, ETC.	1
STATE PROJECT NUMBER		DESCRIPTION
2025CPT.01.10.10661		P.E., CONST.
2025CPT.01.10.20661		P.E., CONST.
2025CPT.01.10.20662		P.E., CONST.

TYPE OF WORK: GUARDRAIL, MILLING, RESURFACING, THIN-LIFT RESURFACING, SHOULDER RECONSTRUCTION, & PAVEMENT MARKINGS

MAP	ROUTE	FROM	TO
01	NC 46	R-2582A Project Limits	Begin project limits 80129
02	NC 46	End project limits 80129	NC 48
03	NC 48	NC 46	NC 186
08	SR 1219 (Porch Dr.)	Dead End	SR 1209 (Old Emporia Rd.)
09	SR 1246 (Roosevelt St.)	SR 1281 (Broughton St.)	SR 1209 (Old Emporia Rd.)
10	SR 1281 (Broughton St.)	SR 1246 (Roosevelt St.)	NC 46



PROJECT LENGTH

MAP	MILES
01	1.68
02	1.19
03	3.14

MAP	MILES
08	0.64
09	0.289
10	0.79

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

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



STATE OF NORTH CAROLINA

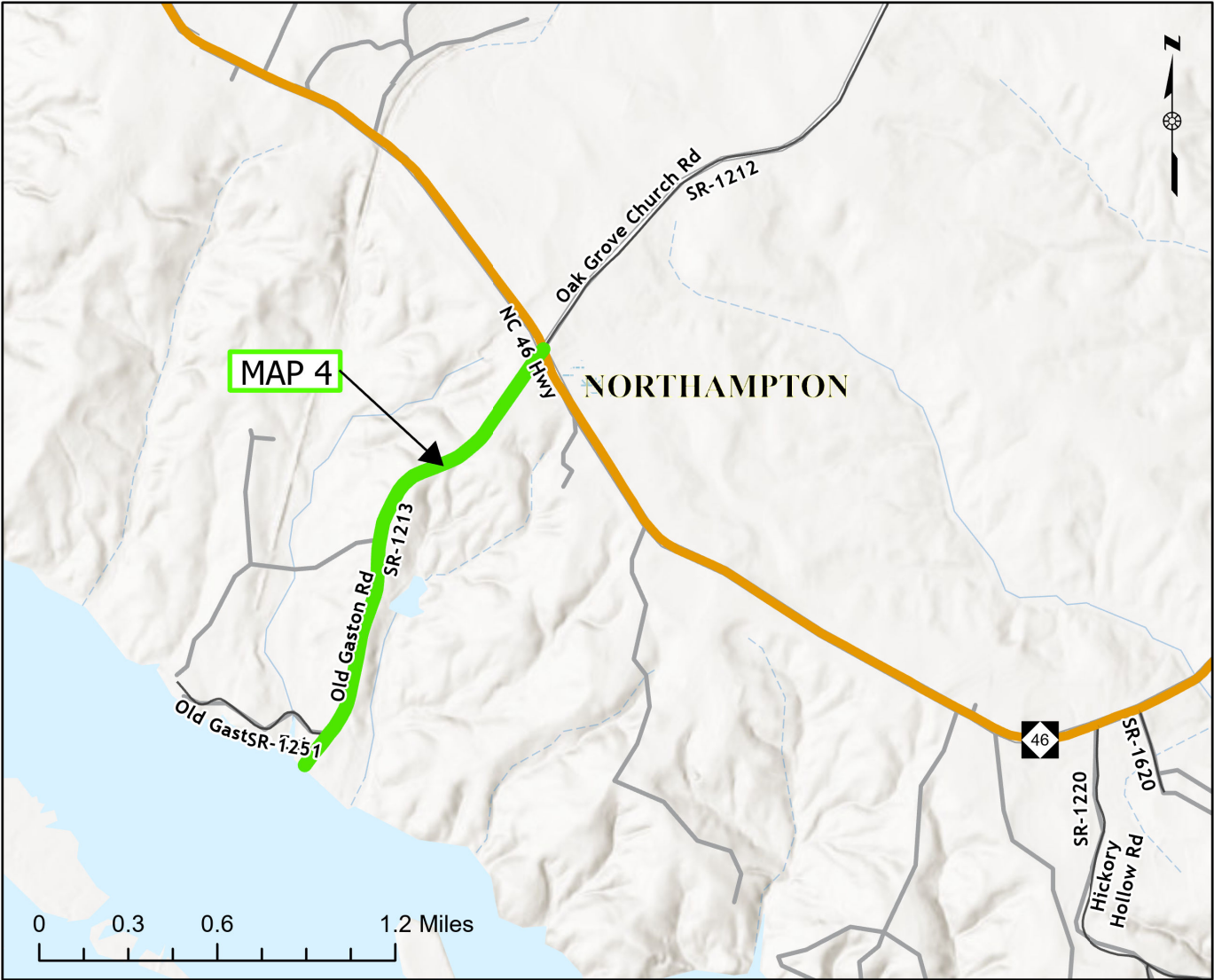
DIVISION OF HIGHWAYS

NORTHAMPTON

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2025CPT.01.10.10661, ETC.	2
STATE PROJECT NUMBER		DESCRIPTION
2025CPT.01.10.20661		P.E., CONST.

TYPE OF WORK: RESURFACING, SHOULDER RECONSTRUCTION, & PAVEMENT MARKINGS

MAP	ROUTE	FROM	TO
04	SR 1213 (Old Gaston Rd.)	Dead End	NC 46



PROJECT LENGTH

MAP	MILES
04	1.37

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

B. N. BRASWELL, PE
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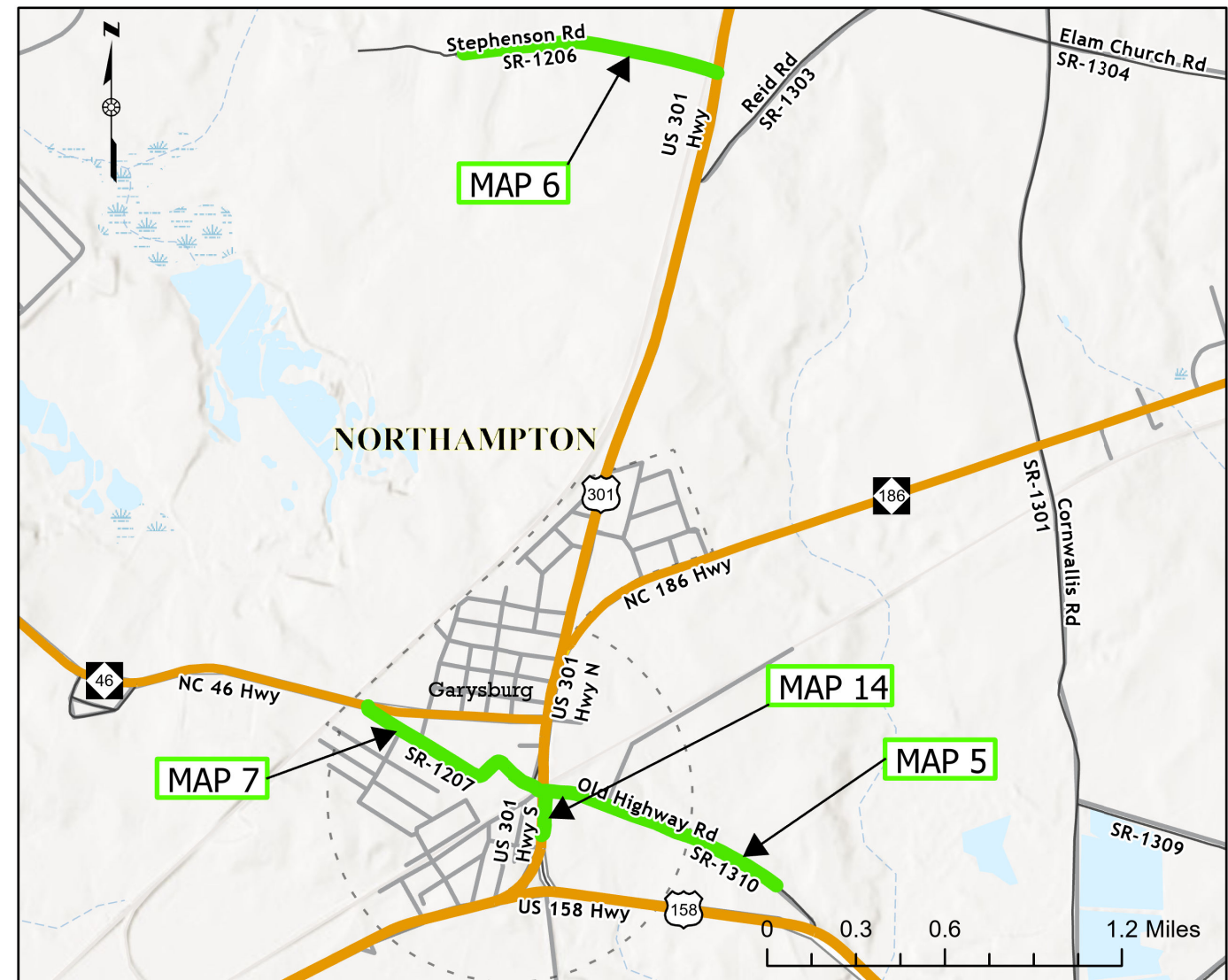
D. H. STALLINGS
DIVISION DESIGN ENGINEER



CONTRACT: DA00618

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2025CPT.01.10.10661, ETC.	3
STATE PROJECT NUMBER		DESCRIPTION
2025CPT.01.10.20661		P.E., CONST.
2025CPT.01.10.20662		P.E., CONST.

MAP	ROUTE	FROM	TO
05	SR 1310 (Old Highway Rd.)	R-2582A Project Limits	SR 1207 (Garysburg St.)
06	SR 1206 (Stephenson Rd.)	Dead End	US 301
07	SR 1207 (Old Highway Rd.)	NC 46	SR 1310 (Old Highway Rd.)
14	SR 1387 (Ramp Rd.)	SR 1310 (Old Highway Rd.)	US 301



MAP	MILES
05	0.71
06	1
07	0.545
14	0.12

D. H. STALLINGS
DIVISION DESIGN ENGINEER



STATE OF NORTH CAROLINA

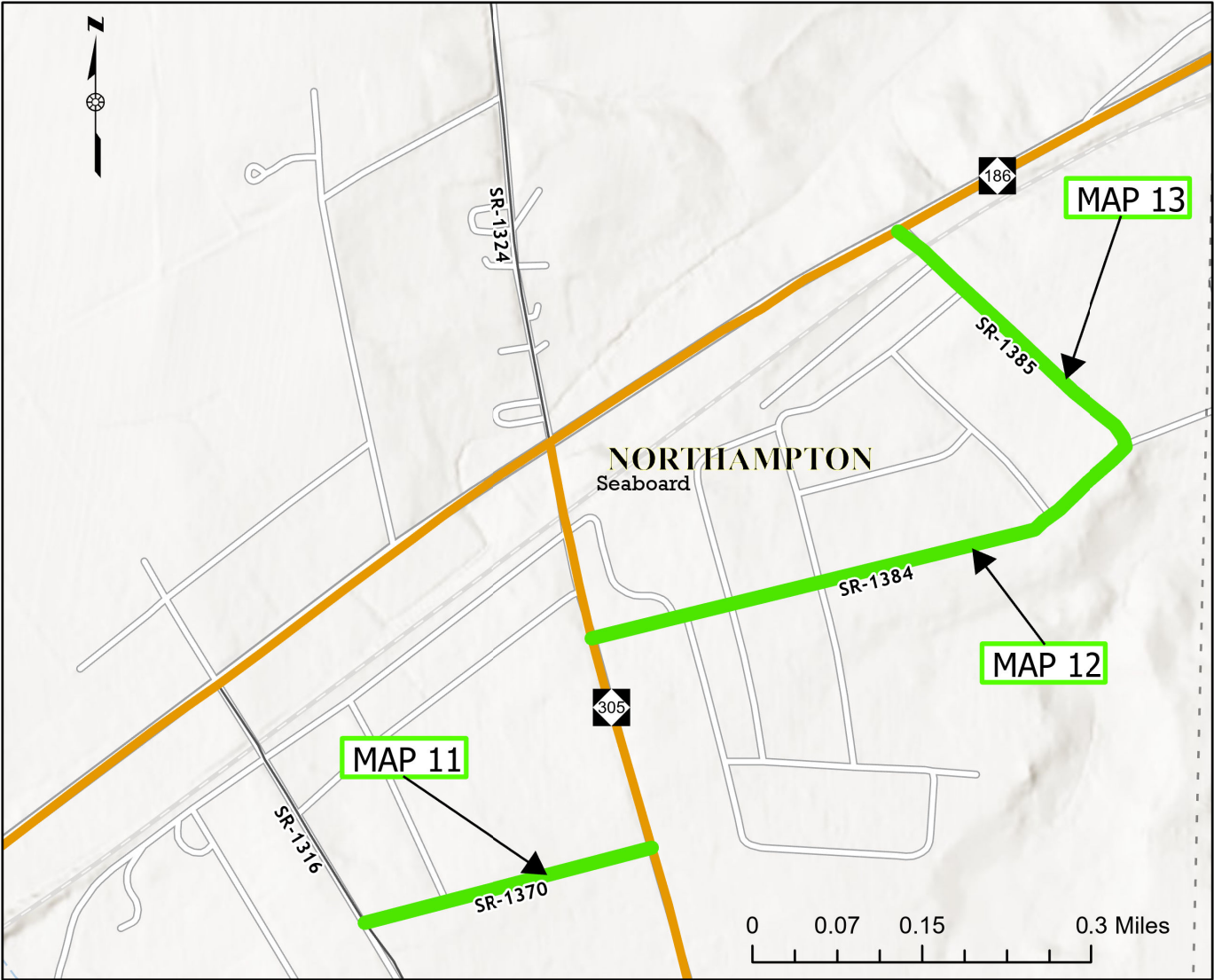
DIVISION OF HIGHWAYS

NORTHAMPTON

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2025CPT.01.10.10661, ETC.	4
STATE PROJECT NUMBER		DESCRIPTION
2025CPT.01.10.20662		P.E., CONST.

TYPE OF WORK: THIN-LIFT RESURFACING & PAVEMENT MARKINGS

MAP	ROUTE	FROM	TO
11	SR 1370 (West Church St.)	SR 1316 (Buck Howell Rd.)	NC 305
12	SR 1384 (Park St.)	SR 1385 (Calvert St.)	NC 305
13	SR 1385 (Calvert St.)	SR 1384 (Park St.)	NC 186



PROJECT LENGTH

MAP	MILES
11	0.21
12	0.41
13	0.22

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

B. N. BRASWELL, PE
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DIVISION PROJECT TEAM LEAD

D. H. STALLINGS
DIVISION DESIGN ENGINEER

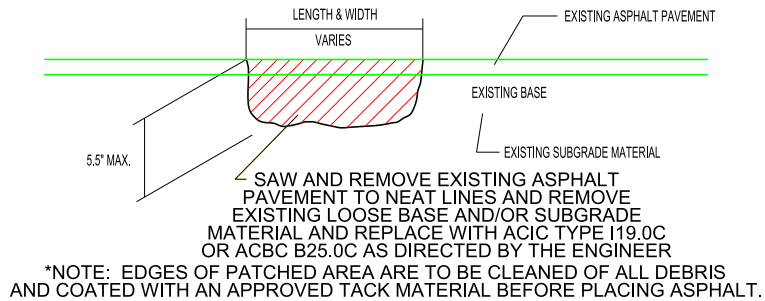


PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT, 1.50" DEPTH

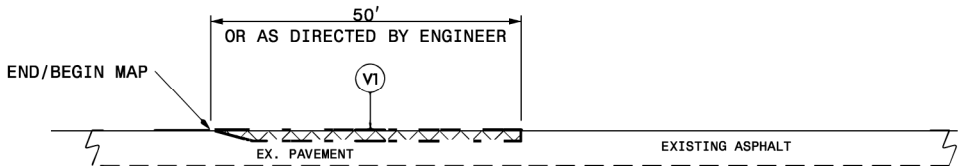
NOTES:

- * 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

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.01.10.10661, ETC.	5



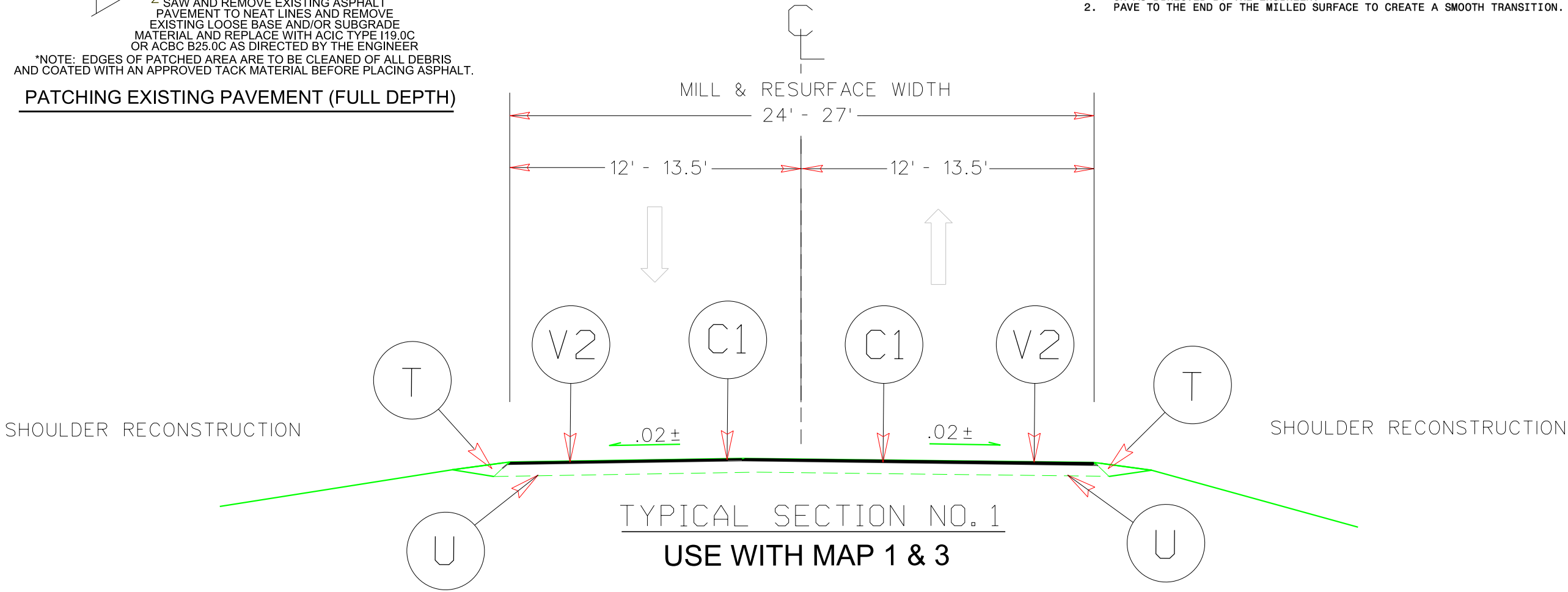
PATCHING EXISTING PAVEMENT (FULL DEPTH)



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.

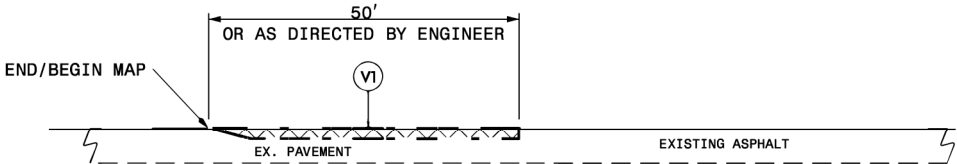
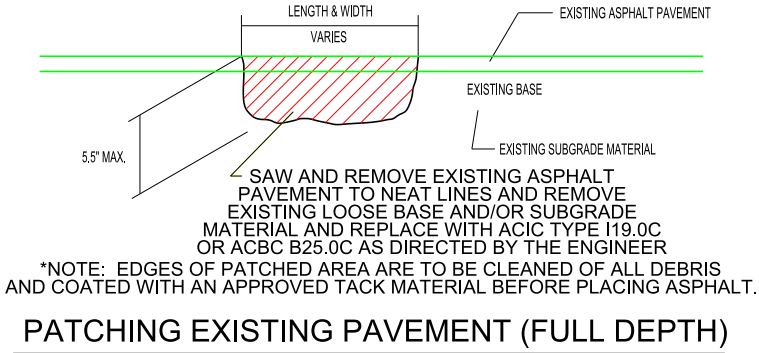


PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
U	EXISTING PAVEMENT

NOTES:

- * 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

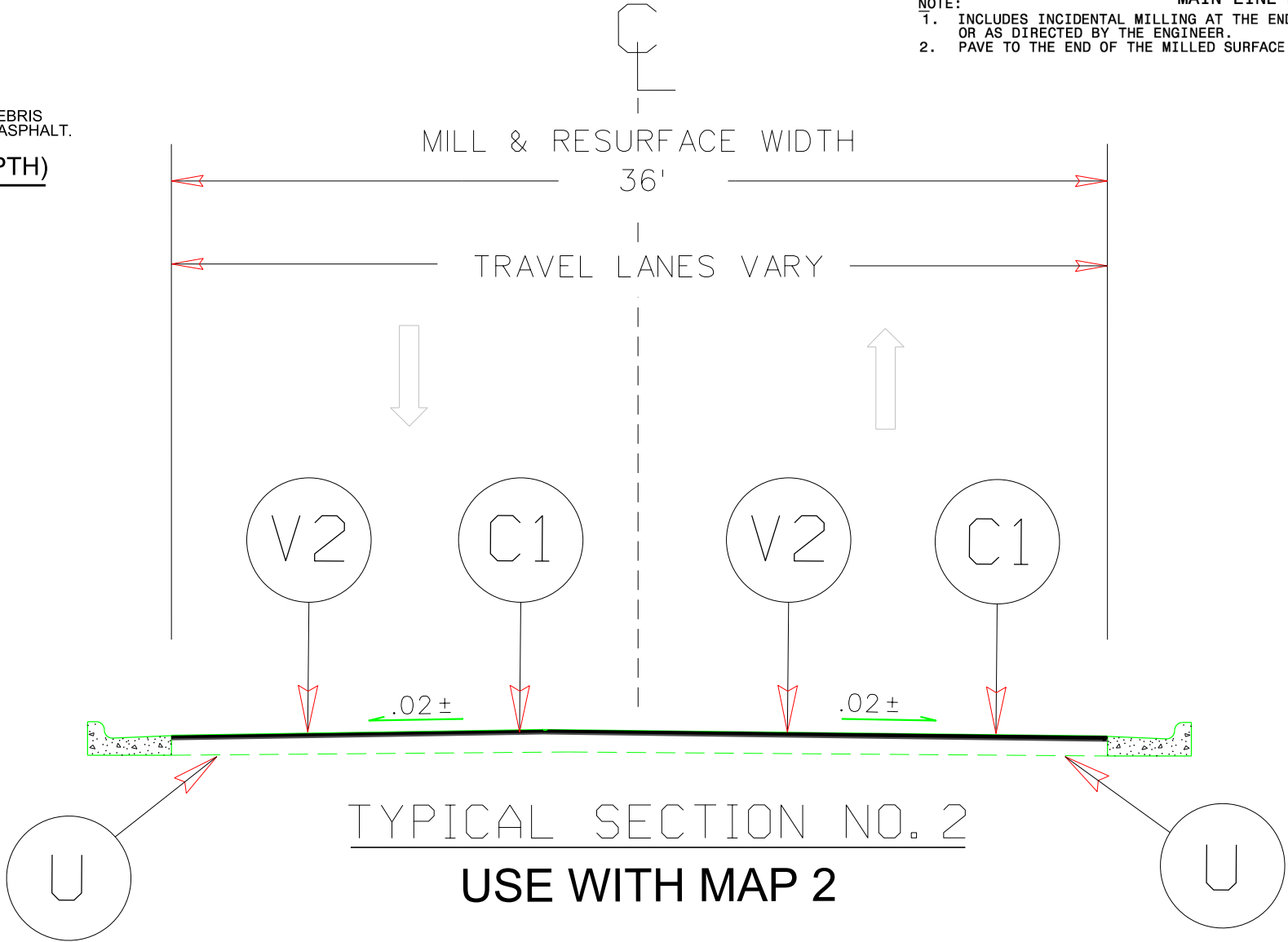
PROJECT REFERENCE NO.	SHEET NO.
2025CPT.01.10.10661	6



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.

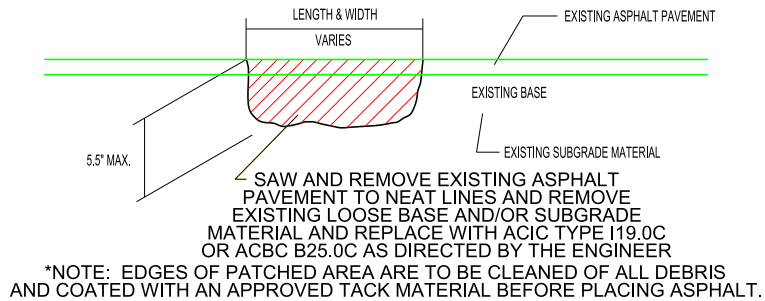


PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING

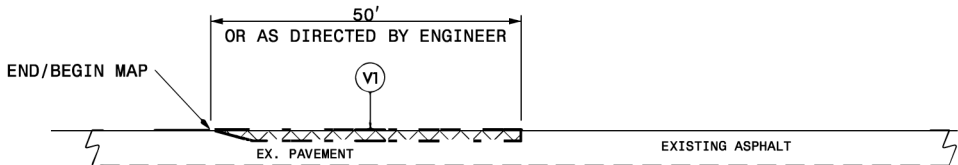
NOTES:

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.01.10.10661, ETC.	7

- * 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 S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
- * CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5B
- * ON MAP 5, APPLY ASPHALT CONCRETE LEVELING COURSE, S9.5B STATIONS 37+33 TO 38+54 (AT RAILROAD CROSSING)



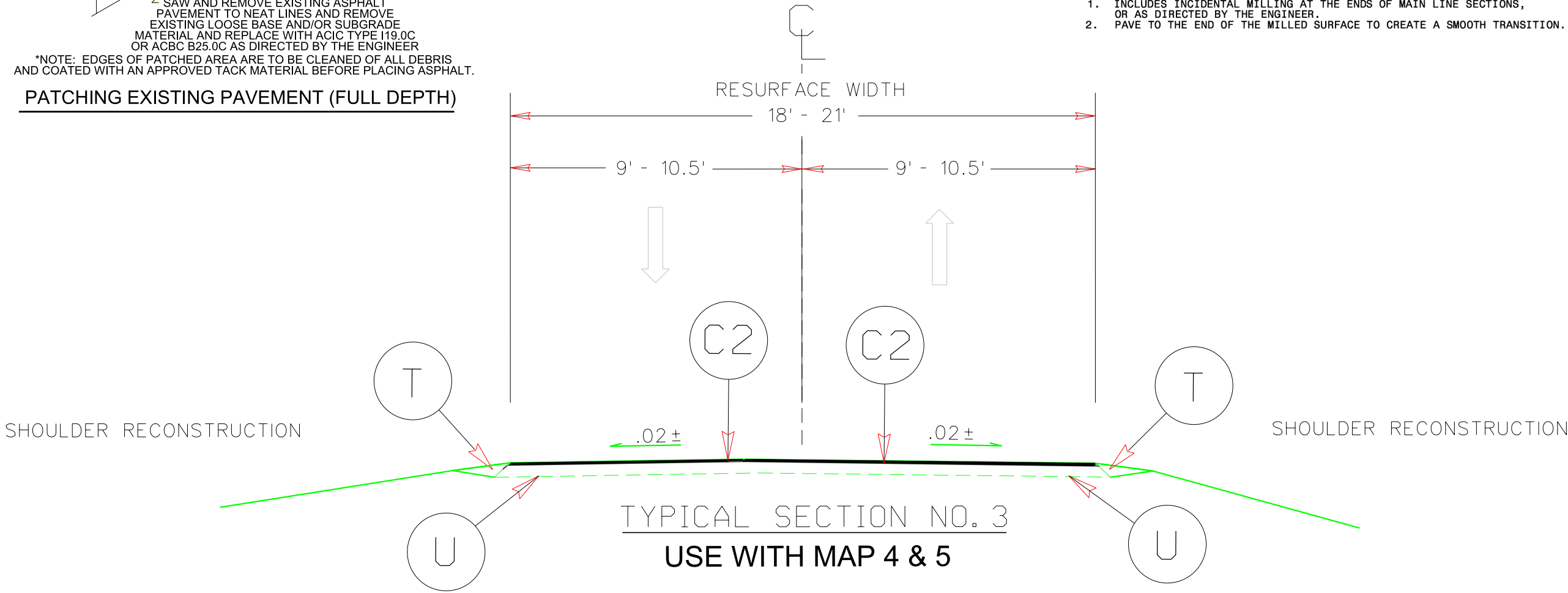
PATCHING EXISTING PAVEMENT (FULL DEPTH)



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.

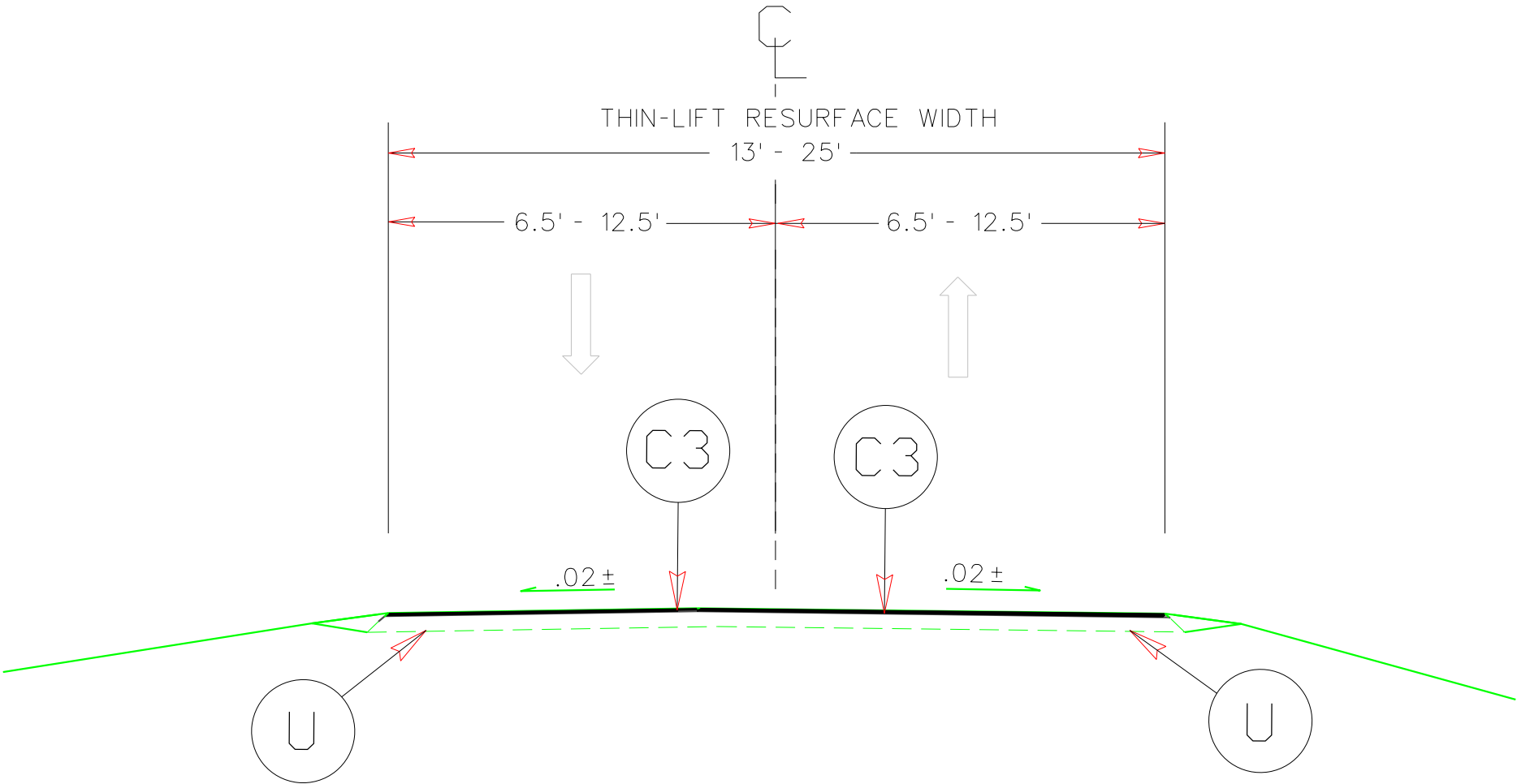


PAVEMENT SCHEDULE	
C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 138 LBS. PER SQ. YD.
U	EXISTING PAVEMENT

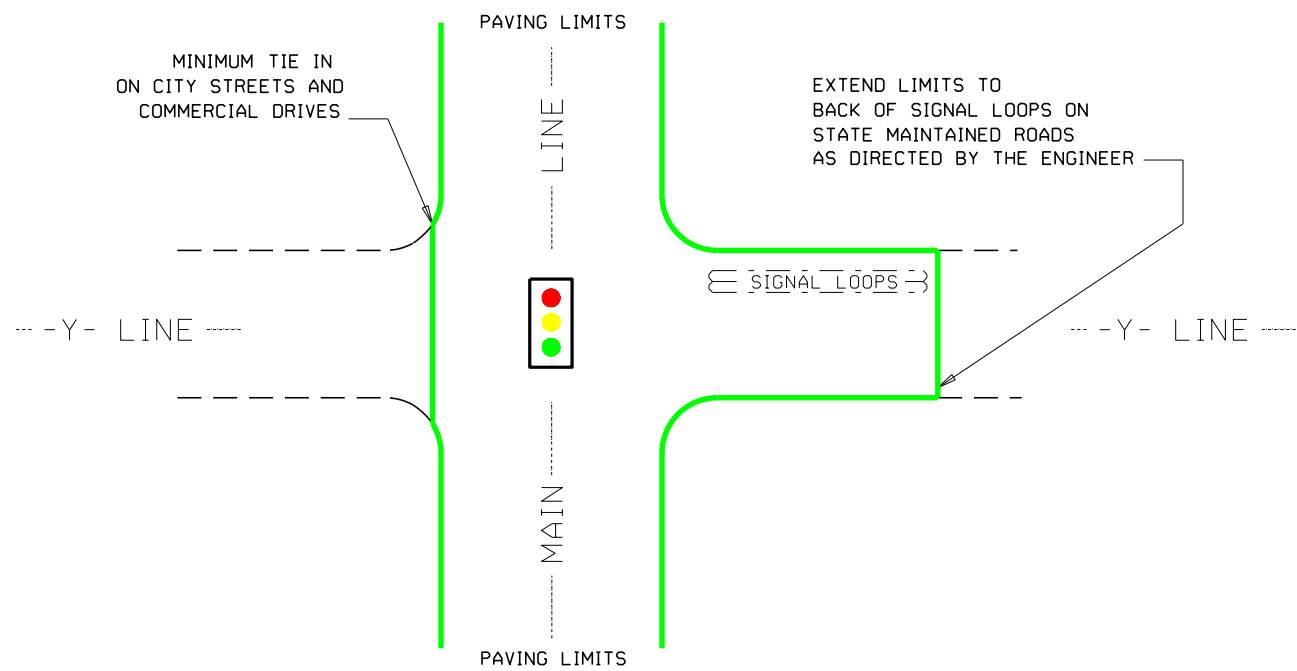
NOTES:

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.01.10.10661, ETC.	8

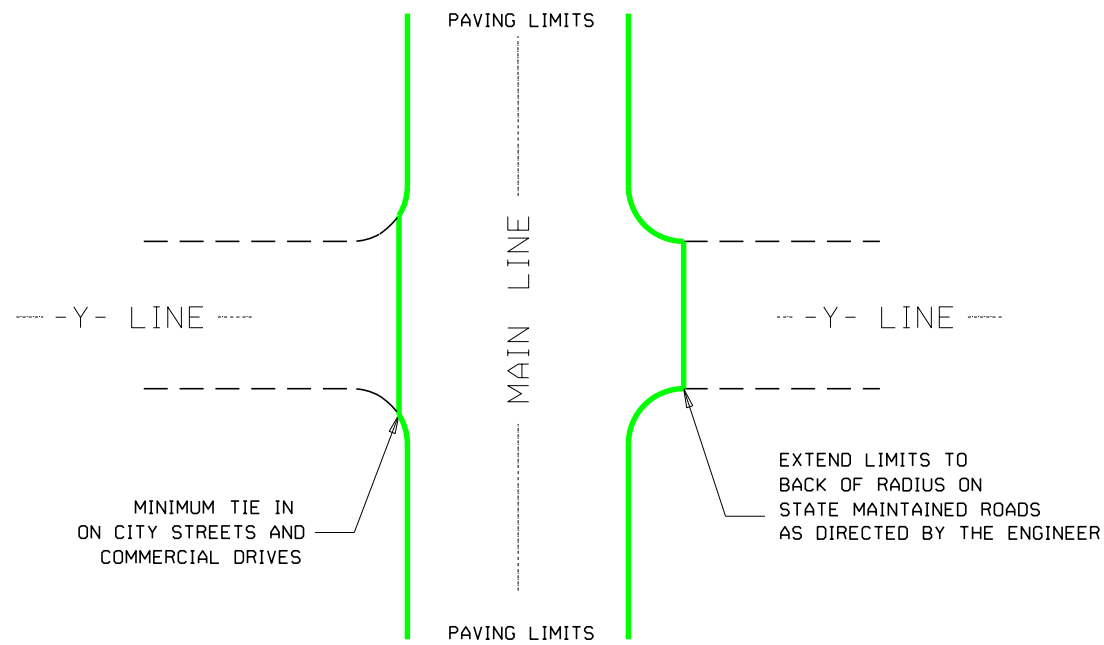
- * ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- * EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
- * 1.25" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY



TYPICAL SECTION NO. 4
USE WITH MAP 6 - 14



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES



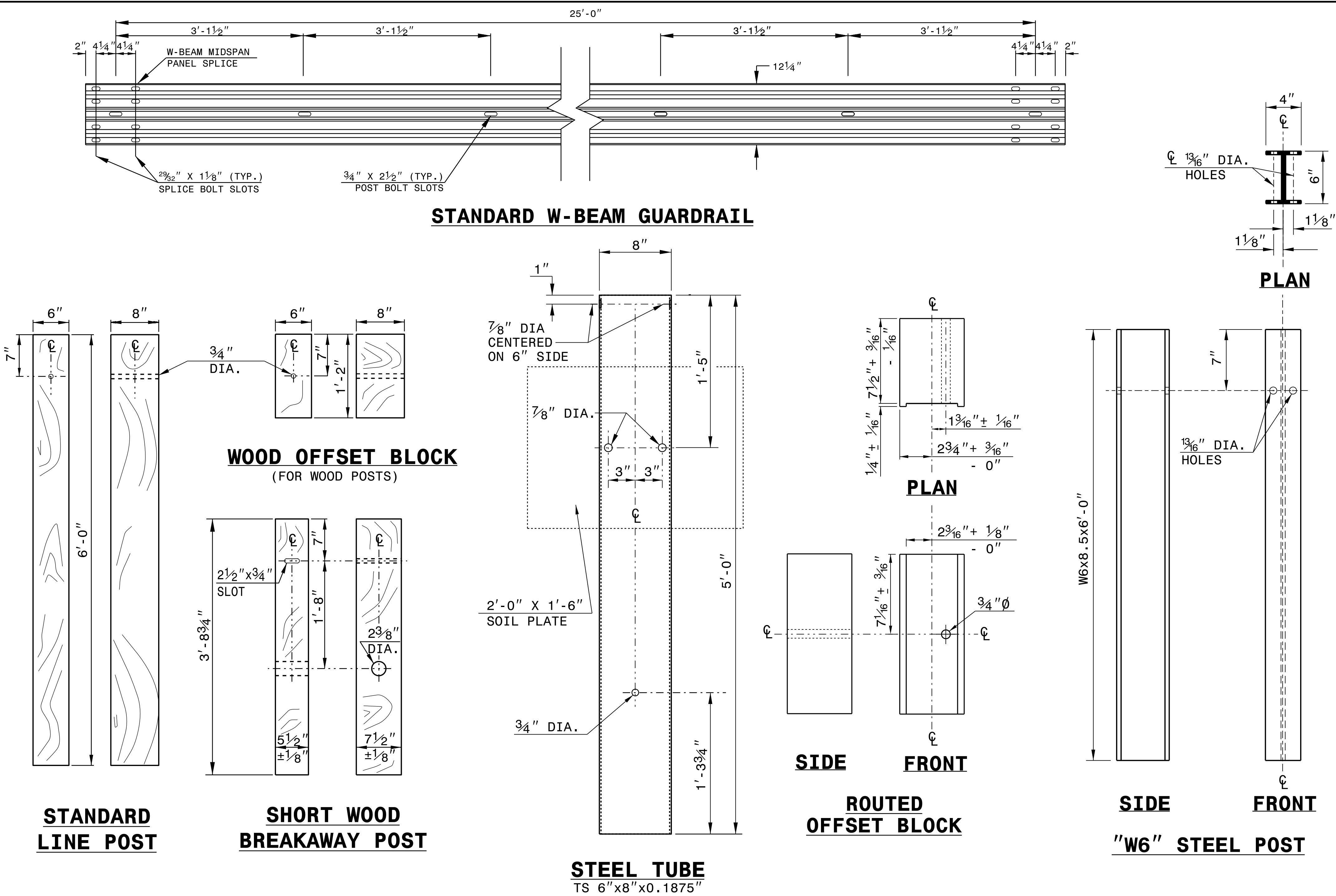
TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

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	

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

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

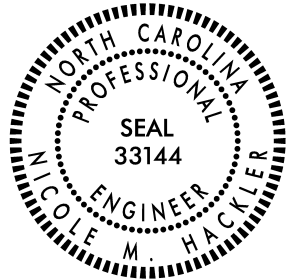
SHEET 6 OF 8
862D02



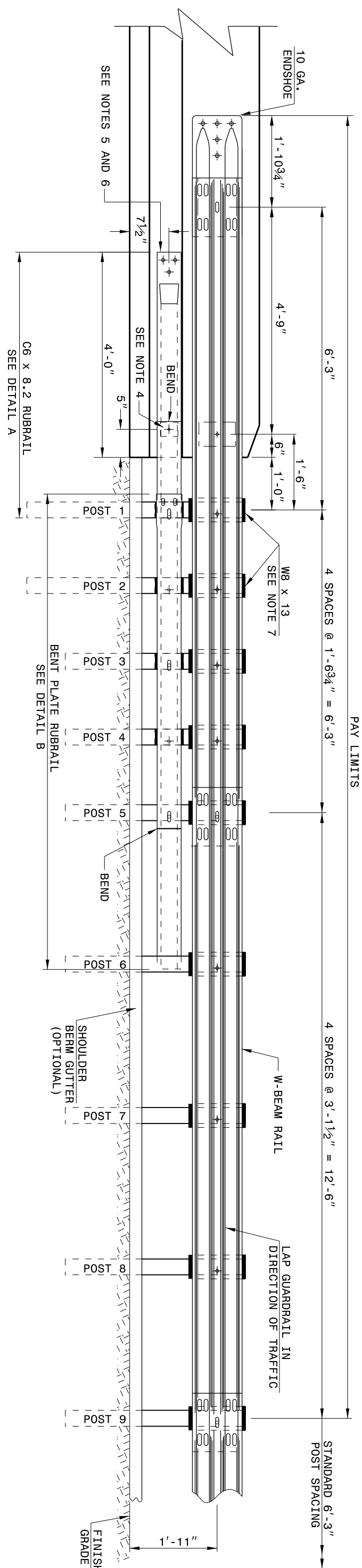
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02



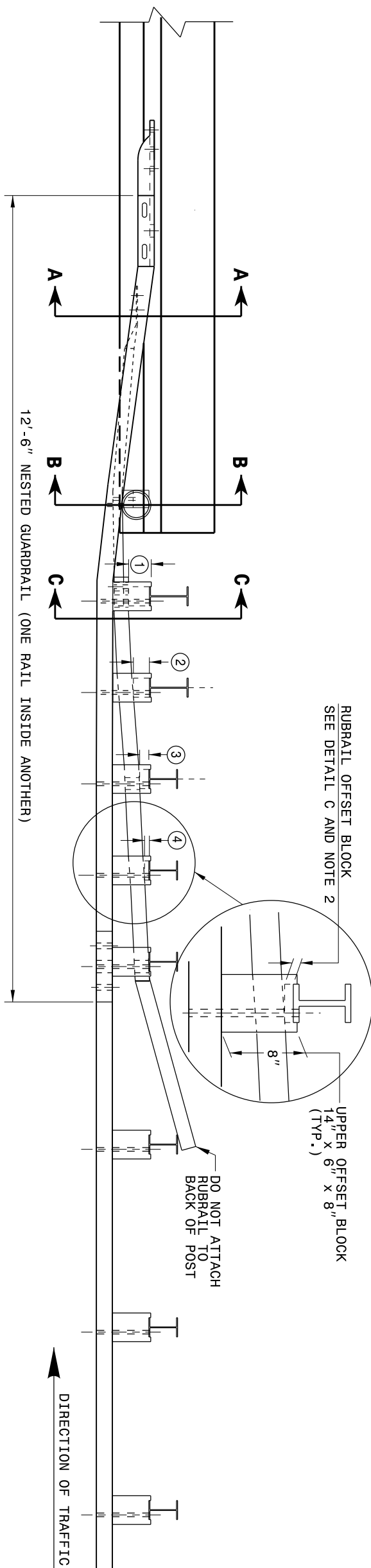
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.



ELEVATION

GENERAL NOTES:

- 1) POSTS 1 THROUGH 5 REQUIRE AN ADDITIONAL HOLE TO ATTACH LOWER BLOCKOUTS AND/OR RUBERAIL.
- 2) RUBERAIL BLOCKOUTS LOCATED ON POSTS 1 THROUGH 4 ARE OFFSET DRILLED AND SECURED WITH 3/8" BUTTONEHEAD BOLTS (SEE CHART FOR BOLT LENGTHS).
- 3) SECOND BLOCKOUTS LOCATED ON POSTS 1 AND 4 ARE OFFSET DRILLED AND SECURED WITH 3/8" BUTTONEHEAD BOLTS (SEE CHART FOR BOLT LENGTHS).
- 4) STEEL SPACER TUBE IS A SCHEDULE 40 GALVANIZED PIPE 6" INSIDE DIAMETER X 9' LONG. ATTACH TUBE TO GUARDRAIL ONLY WITH 5/8" X 1/4" LONG BUTTONEHEAD BOLTS AND RECTANGULAR PLATE WASHER.
- 5) SEE DETAIL TO SLOPED RUBERAIL BLOCKOUT. BLOCKOUT IS ATTACHED TO SLOPE ELEMENT ONLY. USE 3/8" X 3" LAG BOLT WITH FLAT WASHER.
- 6) SHOP FABRICATE THE C6 X 8.2 RUBERAIL END TO BE CONSISTENT WITH THE SLOPE OF THE F. SHAPE AND FLUSH WITH THE SLOPED TOP OF THE BARRIER OR BRIDGE RAIL.
- 7) ANCHOR EXISTING BRIDGE RAIL AND NEW OR EXISTING BARRIERS. ANCHOR RUBERAIL USING THREE 5/8" X 6" CHEMICALLY ANCHORED (a) BOLTS WITH WASHERS. MAXIMUM PROJECTION FOR BOLTS IS 1/2".
- 8) AT EXISTING BRIDGE RAIL AND NEW OR EXISTING BARRIERS, ANCHOR THE W-BEAM END SHOE USING A 4" BOLT HOLD DOWN PLATE (SEE STD. DWG. 882.04).
- 9) A 4" BOLT INSERT ASSEMBLY IS ALLOWED ON PRECAST REINFORCED CONCRETE BARRIER (SEE STD. DWG. 887.01).
- 10) INSTALL THE W-BEAM END SHOE BEHIND THE NESTED W-BEAM ELEMENTS.
- 11) AT NEW BRIDGE RAIL, ANCHOR THE W-BEAM END SHOE AND RUBERAIL AS DETAILED ON THE STRUCTURE PLANS.
- 12) POSTS 1 AND 2 ARE W6 X 13, 7'-6" LONG. ALL OTHER POSTS IN THE ANCHOR UNIT ARE W6 X 8.5.



PLAN

ENGLISH DETAIL DRAWING FOR
GUARDRAIL ANCHOR UNIT
 GUARDRAIL ANCHOR UNIT TYPE B-77
 FOR F-SHAPE BARRIER

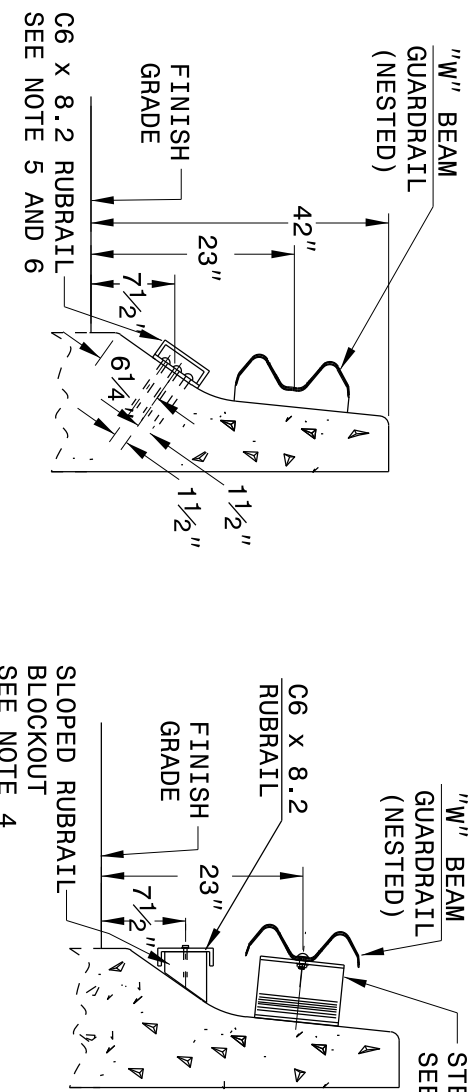
SHEET 4 OF 7
862D03

ENGLISH DETAIL DRAWING FOR
STRUCTURE ANCHOR UNIT
GUARDRAIL ANCHOR UNIT TYPE B-77
FOR F-SHAPE BARRIER

SHEET 4 OF 7

862D03

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

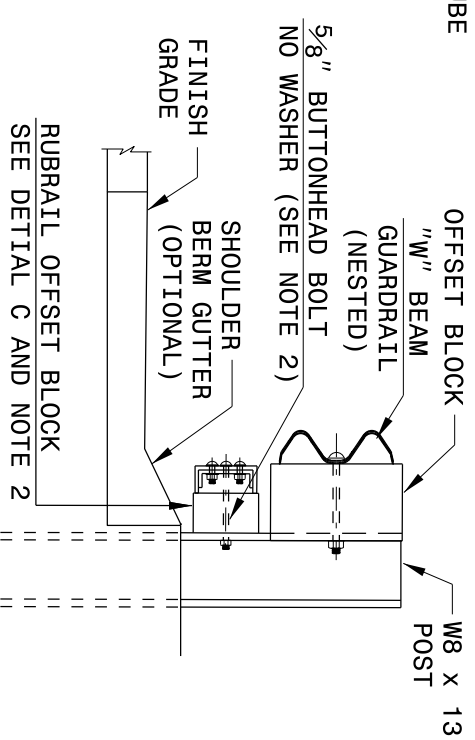


SECTION A-A

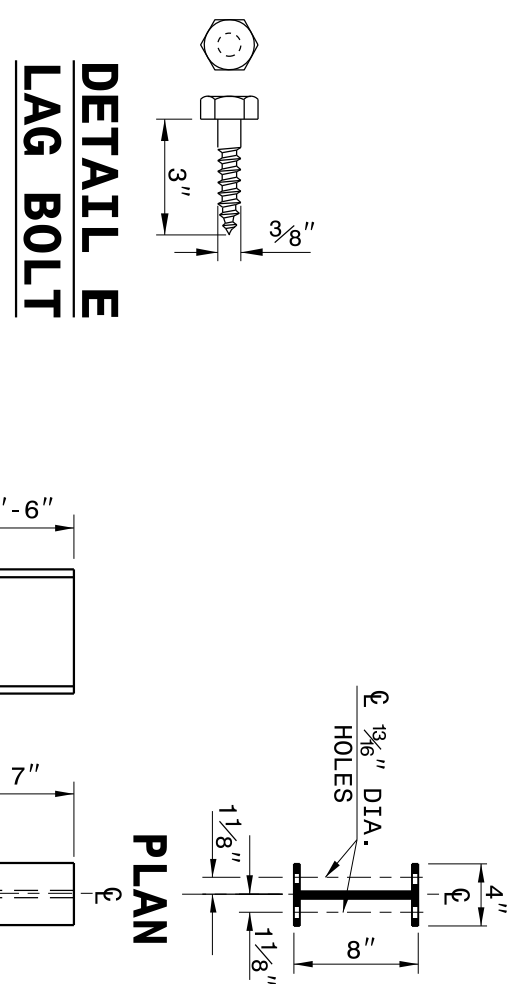
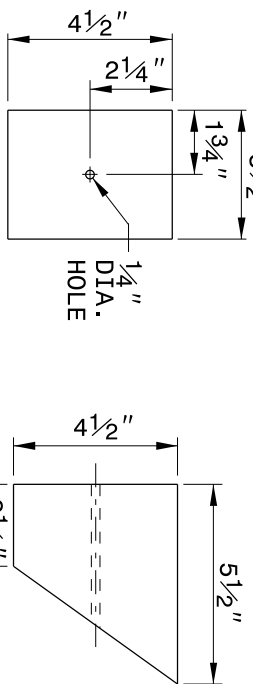
SECTION B-B

RUBRAIL BLOCKS 7" HIGH x 4" WIDE		
POST	THICKNESS	BOLT LENGTH
(1)	4 1/4"	9"
(2)	3 1/4"	5" *
(3)	2"	6"
(4)	1"	3" *

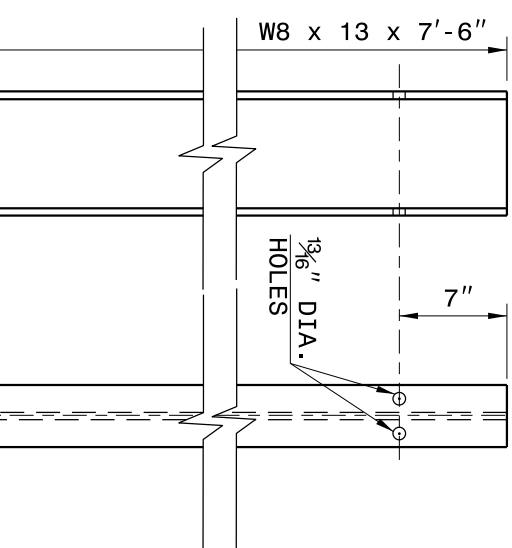
* BOLTS FOR POSTS 2 AND 4 ARE USED TO ATTACH BLOCK TO POST. RUBRAIL NOT ATTACHED TO BLOCK.



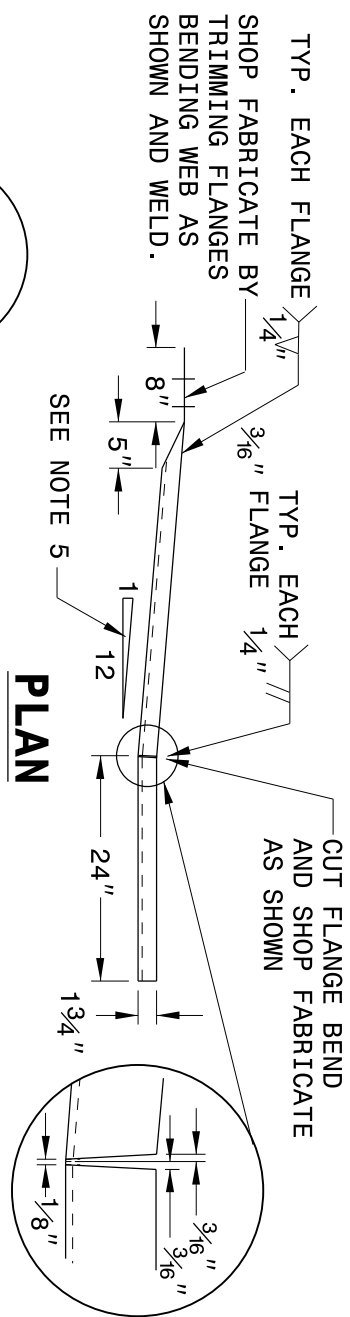
SECTION C-C



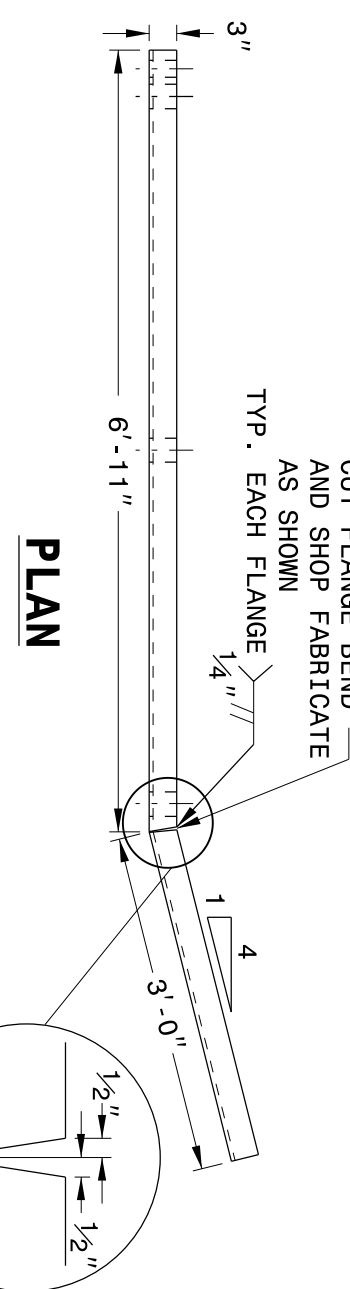
DETAIL E
LAG BOLT



DETAIL C
RUBRAIL BLOCKOUT



DETAIL D
SLOPED RUBRAIL BLOCKOUT

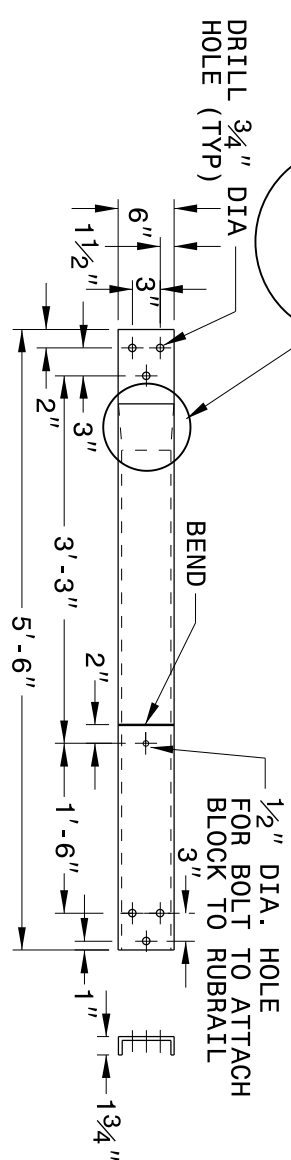


ENGLISH DETAIL DRAWING FOR
STRUCTURE ANCHOR UNIT
GUARDRAIL ANCHOR UNIT TYPE B
FOR F-SHAPE BARRIER

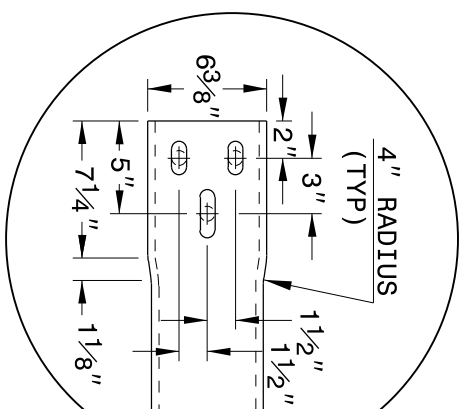
SHEET 5 OF 7
862D03

ENGLISH DETAIL DRAWING FOR
STRUCTURE ANCHOR UNIT
RDRAIL ANCHOR UNIT TYPE B-77
FOR F-SHAPE BARRIER

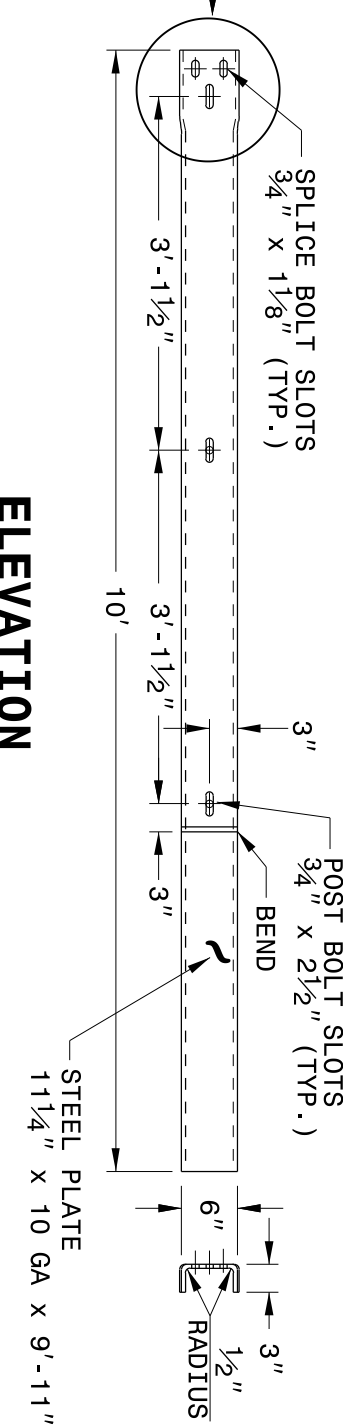
SHEET 5 OF 7
862D03



ELEVATION
DETAIL A
C6 x 8.2 RUBRAILL



GUARDRAIL ANCHOR UNIT TYPE B-77



ELEVATION

DETAIL B

BENT PLATE RUBRAILL

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$$$$$SYTIME$$$$$
$$$$$DCN$$$$$
$$$$$USERNAME$$$$$

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

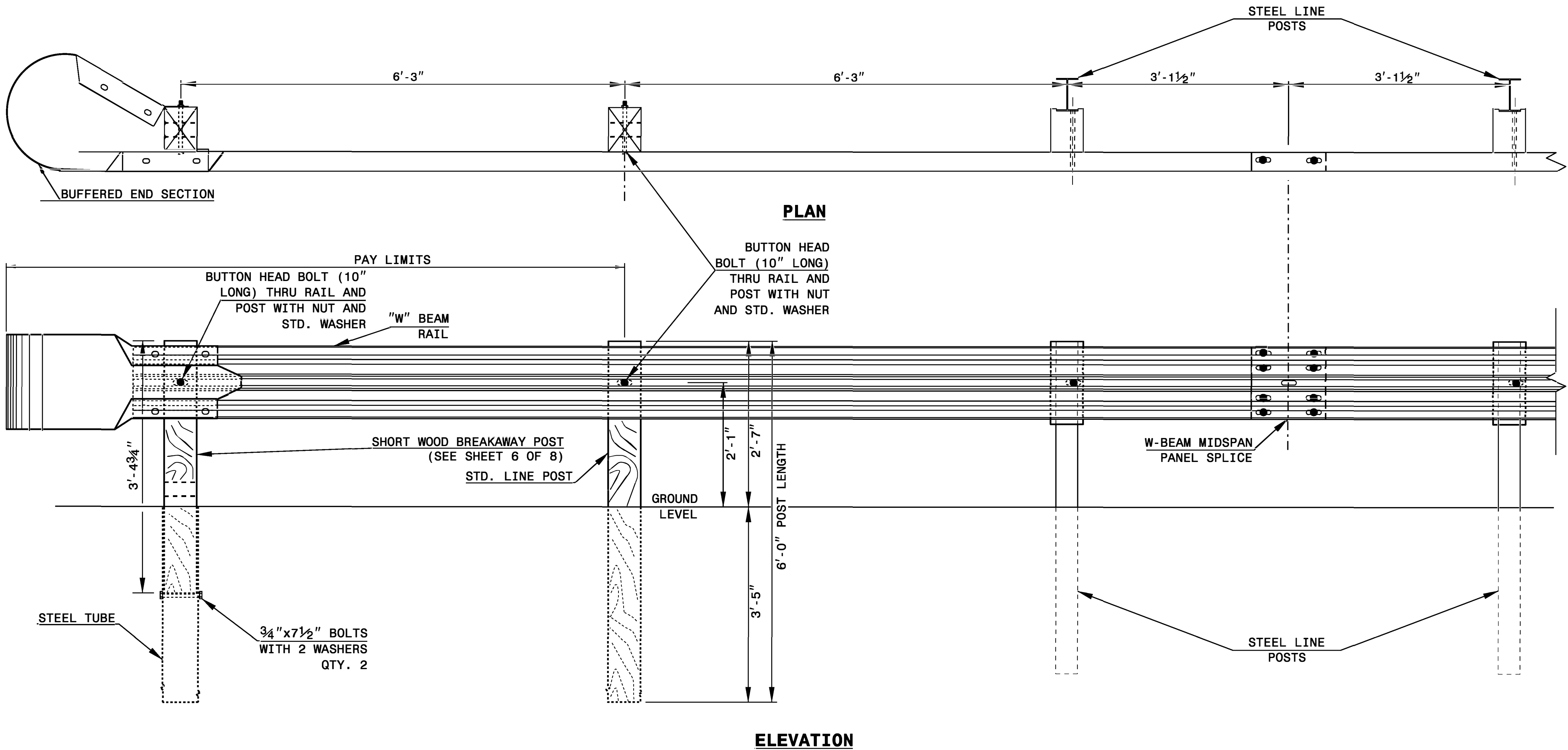
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET OF

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

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET OF



TRAILING END UNIT ASSEMBLY
A.T. - 1 SYSTEM



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119	
A.T. - 1 SYSTEM	
ORIGINAL BY: _____	DATE: _____
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	

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[illegible]

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.01.10.10661, ETC.	14	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	MATERIAL TRANSFER VEHICLE REQUIRED	0000100000-N MOBILIZATION	0106000000-E BORROW EXCAVATION	1220000000-E INCIDENTAL STONE BASE	1245000000-E SHOULDER RECONSTRUCTION	1297000000-E MILLING ASPHALT PAVEMENT (1½")	1330000000-E INCIDENTAL MILLING	1519000000-E ASPHALT CONC SURFACE COURSE, \$9.5B	1520000000-E ASPHALT CONC LEVELING COURSE, \$9.5B	1523000000-E ASPHALT CONC SURFACE COURSE, \$9.5C	1575000000-E ASPHALT BINDER FOR PLANT MIX	1705000000-E PATCHING EXISTING PAVEMENT (FULL DEPTH)	2253000000-E PIPE COLLARS	2352000000-N FRAME WITH GRATE, STD 840.03, TYPE F	2549000000-E 2'-6" CONCRETE CURB & GUTTER	2800000000-N ADJUSTMENT OF CATCH BASINS	
								MI	FT						LS	CY	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	TON	CY	EA	LF
2025CPT.01.10.10661	Northampton	1	NC-46 E / NC 46 HWY	FROM R-2582A PROJECT LIMITS TO BEGIN PROJECT LIMITS 80129	1	2	2WU	1.68	27	3.38	5.06	YES	1		45	3.36	27,843	1,647			2,568	153	25					
2025CPT.01.10.10661	Northampton	2	NC-46 E / NC 46 HWY/GARYSBURG RD/LAWRENCEVILLE RD	FROM END PROJECT LIMITS 80129 TO 135' W OF NC 48	2	2	2WU	1.22	36	5.33	6.55	YES	*		20	1.00	25,133	2,087			2,130	127	20	2	2	120	3	
2025CPT.01.10.10661	Northampton	3	NC-48 E / PLEASANT HILL RD/NC 48 HWY	FROM 150' S OF NC 46 TO NC 186	1	2	2WU	3.18	24	1.34	4.52	YES	*		60	6.36	46,741	4,063			4,764	282	25					
TOTAL FOR PROJ NO. 2025CPT.01.10.10661								6.08					*		125	10.72	99,717	7,797			9,462	562	70	2	2	120	3	
2025CPT.01.10.20661	Northampton	4	SR-1213 / OLD GASTON RD	FROM DEAD END TO NC 46	3	2	2WU	1.37	21	0	1.37	NO	*	41	24	2.74			1,541		100							
2025CPT.01.10.20661	Northampton	5	SR-1310 / OLD HIGHWAY RD	FROM R-2582A PROJECT LIMITS	3	2	2WU	0.71	18	0.17	0.88	NO	*	21	24	1.42		282	708	72	51	12						
TOTAL FOR PROJ NO. 2025CPT.01.10.20661								2.08					*	62	48	4.16		282	2,249	72		151	12					
2025CPT.01.10.20662	Northampton	6	SR-1206 / STEPHENSON RD	FROM DEAD END TO US 301	4	2	2WU	1	19	0	1	NO	*		5				848			55						
2025CPT.01.10.20662	Northampton	7	SR-1207 / OLD HIGHWAY RD/GARYSBURG ST	FROM NC 46 TO SR 1310 (OLD HIGHWAY RD.)	4	2	2WU	0.545	17	0	0.545	NO	*		15				414			27						
2025CPT.01.10.20662	Northampton	8	SR-1219 / PORCH DR	FROM DEAD END TO SR 1209 (OLD EMPORIA RD.)	4	2	2WU	0.64	18	0	0.64	NO	*		29				514			33						
2025CPT.01.10.20662	Northampton	9	SR-1246 / ROOSEVELT ST	FROM SR 1281 (BROUGHTON ST.) TO SR 1209 (OLD EMPORIA RD.)	4	2	2WU	0.289	25	0	0.289	NO	*						322			21						
2025CPT.01.10.20662	Northampton	10	SR-1281 / BROUGHTON ST	FROM SR 1246 (ROOSEVELT ST.) TO NC 46	4	2	2WU	0.79	20	0	0.79	NO	*		10				724			47						
2025CPT.01.10.20662	Northampton	11	SR-1370 / W CHURCH ST	FROM SR 1316 (BUCK HOWELL RD.) TO NC 305	4	2	2WU	0.21	18	0	0.21	NO	*		3				172			11						
2025CPT.01.10.20662	Northampton	12	SR-1384 / PARK ST	FROM SR 1385 (CALVERT ST.) TO NC 305	4	2	2WU	0.41	18	0	0.41	NO	*		32				329			21						
2025CPT.01.10.20662	Northampton	13	SR-1385 / CALVERT ST	FROM SR 1384 (PARK ST.) TO NC 186	4	2	2WU	0.22	17	0	0.22	NO	*						167			11						
2025CPT.01.10.20662	Northampton	14	SR-1387 / RAMP RD	FROM SR 1310 (OLD HIGHWAY RD.) TO US 301	4	2	2WU	0.12	13	0	0.12	NO	*		2				63			4						
TOTAL FOR PROJ NO. 2025CPT.01.10.20662								4.224					*		96				3,553			230						
GRAND TOTAL								12.384					1	62	269	14.88	99,717	8,079	5,802	72	9,462	943	82	2	2	120	3	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	MATERIAL TRANSFER VEHICLE REQUIRED	2830000000-N ADJUSTMENT OF MANHOLES	2845000000-N ADJUSTMENT OF METER OR VALVE BOXES	3030000000-E STEEL BEAM GUARDRAIL	3045000000-E STEEL BEAM GUARDRAIL, SHOP CURVED	3195000000-N GR ANCH AT-1	3287000000-N GUARDRAIL END UNITS, TYPE TL-3	3317000000-N GUARDRAIL ANCH B-77	3360000000-E REMOVE EXISTING GUARDRAIL	6000000000-E TEMPORARY SILT FENCE	6071012000-E COIR FIBER WATTLE	6084000000-E SEEDING & MULCHING	6117000000-N RESPONSE FOR EROSION CONTROL	7324000000-N JUNCT BOX (STD SIZE)	7444000000-E INDUCTIVE LOOP SAWCUT	7456100000-E LEAD-IN CABLE (14-2)
								MI	FT				EA	EA	LF	LF	EA	EACH	EA	LF	LF	LF	ACR	EA	EA	LF	LF
2025CPT.01.10.10661	Northampton	1	NC-46 E / NC 46 HWY	FROM R-2582A PROJECT LIMITS TO BEGIN PROJECT LIMITS 80129	1	2	2WU	1.68	27	3.38	5.06	YES									100	30	1.6	1			
2025CPT.01.10.10661	Northampton	2	NC-46 E / NC 46 HWY/GARYSBURG RD/LAWRENCEVILLE RD	FROM END PROJECT LIMITS 80129 TO 135' W OF NC 48	2	2	2WU	1.22	36	5.33	6.55	YES	6	4	536			4		736	100	30	0.5	1	1	825	188
2025CPT.01.10.10661	Northampton	3	NC-48 E / PLEASANT HILL RD/NC 48 HWY	FROM 150' S OF NC 46 TO NC 186	1	2	2WU	3.18	24	1.34	4.52	YES		2						100	50	3.0	1	1	1	660	218
TOTAL FOR PROJ NO. 2025CPT.01.10.10661								6.08					6	6	536			4		736	300	110	5.1	3	2	1,485	406
2025CPT.01.10.20661	Northampton	4	SR-1213 / OLD GASTON RD	FROM DEAD END TO NC 46	3	2	2WU	1.37	21	0	1.37	NO									100	30	1.3	1			
2025CPT.01.10.20661	Northampton	5	SR-1310 / OLD HIGHWAY RD	FROM R-2582A PROJECT LIMITS	3	2	2WU	0.71	18	0.17	0.88	NO				26	2		2		100	30	0.7	1			
TOTAL FOR PROJ NO. 2025CPT.01.10.20661								2.08								26	2	0	2		200	60	2.0	2			
2025CPT.01.10.20662	Northampton	6	SR-1206 / STEPHENSON RD	FROM DEAD END TO US 301	4	2	2WU	1	19	0	1	NO															
2025CPT.01.10.20662	Northampton	7	SR-1207 / OLD HIGHWAY RD/GARYSBURG ST	FROM NC 46 TO SR 1310 (OLD HIGHWAY RD.)	4	2	2WU	0.545	17	0	0.545	NO															
2025CPT.01.10.20662	Northampton	8	SR-1219 / PORCH DR	FROM DEAD END TO SR 1209 (OLD EMPORIA RD.)	4	2	2WU	0.64	18	0	0.64	NO															
2025CPT.01.10.20662	Northampton	9	SR-1246 / ROOSEVELT ST	FROM SR 1281 (BROUGHTON ST.) TO SR 1209 (OLD EMPORIA RD.)	4	2	2WU	0.289	25	0	0.289	NO															
2025CPT.01.10.20662	Northampton	10	SR-1281 / BROUGHTON ST	FROM SR 1246 (ROOSEVELT ST.) TO NC 46	4	2	2WU	0.79	20	0	0.79	NO	3	3													
2025CPT.01.10.20662	Northampton	11	SR-1370 / W CHURCH ST	FROM SR 1316 (BUCK HOWELL RD.) TO NC 305	4	2	2WU	0.21	18	0	0.21	NO	2	1													
2025CPT.01.10.20662	Northampton	12	SR-1384 / PARK ST	FROM SR 1385 (CALVERT ST.) TO NC 305	4	2	2WU	0.41	18	0	0.41	NO		5													
2025CPT.01.10.20662	Northampton	13	SR-1385 / CALVERT ST	FROM SR 1384 (PARK ST.) TO NC 186	4	2	2WU	0.22	17	0	0.22	NO															
2025CPT.01.10.20662	Northampton	14	SR-1387 / RAMP RD	FROM SR 1310 (OLD HIGHWAY RD.) TO US 301	4	2	2WU	0.12	13	0	0.12	NO															
TOTAL FOR PROJ NO. 2025CPT.01.10.20662								4.224					10	4													
GRAND TOTAL								12.384					16	10	536	26	2	4	2	736	500	170	7.1	5	2	1,485	406

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.01.10.10661, ETC.	15	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4688000000-E		4704000000-E	4709000000-E	4720000000-E		4725000000-E			
								MI	FT			SF	LS	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
2025CPT.01.10.10661	Northampton	1	NC-46 E / NC 46 HWY	FROM R-2582A PROJECT LIMITS TO BEGIN PROJECT LIMITS 80129	1	2	2WU	1.68	27	3.38	5.06	112	1	17,741	14,280					7	4		
2025CPT.01.10.10661	Northampton	2	NC-46 E / NC 46 HWY/GARYSBURG RD/LAWRENCEVILLE RD	FROM END PROJECT LIMITS 80129 TO 135' W OF NC 48	2	2	2WU	1.22	36	5.33	6.55	112	*	4,025	15,153		159			27	1	2	1
2025CPT.01.10.10661	Northampton	3	NC-48 E / PLEASANT HILL RD/NC 48 HWY	FROM 150' S OF NC 46 TO NC 186	1	2	2WU	3.18	24	1.34	4.52	150	*	33,581	20,988		58	12		4	1	1	2
TOTAL FOR PROJ NO. 2025CPT.01.10.10661								2.9				374	*	55,347	50,421		217	12		38	6	3	3
														105,768				12				50	
2025CPT.01.10.20661	Northampton	4	SR-1213 / OLD GASTON RD	FROM DEAD END TO NC 46	3	2	2WU	1.37	21	0	1.37	112	*										
2025CPT.01.10.20661	Northampton	5	SR-1310 / OLD HIGHWAY RD	FROM R-2582A PROJECT LIMITS	3	2	2WU	0.71	18	0.17	0.88	80	*			40	42		2				
TOTAL FOR PROJ NO. 2025CPT.01.10.20661								2.08				192	*			40	42		2				
																		2					
2025CPT.01.10.20662	Northampton	6	SR-1206 / STEPHENSON RD	FROM DEAD END TO US 301	4	2	2WU	1	19	0	1		*			84	54		4				
2025CPT.01.10.20662	Northampton	7	SR-1207 / OLD HIGHWAY RD/GARYSBURG ST	FROM NC 46 TO SR 1310 (OLD HIGHWAY RD.)	4	2	2WU	0.545	17	0	0.545		*			40	16		2				
2025CPT.01.10.20662	Northampton	8	SR-1219 / PORCH DR	FROM DEAD END TO SR 1209 (OLD EMPORIA RD.)	4	2	2WU	0.64	18	0	0.64		*										
2025CPT.01.10.20662	Northampton	9	SR-1246 / ROOSEVELT ST	FROM SR 1281 (BROUGHTON ST.) TO SR 1209 (OLD EMPORIA RD.)	4	2	2WU	0.289	25	0	0.289		*				44	6					
2025CPT.01.10.20662	Northampton	10	SR-1281 / BROUGHTON ST	FROM SR 1246 (ROOSEVELT ST.) TO NC 46	4	2	2WU	0.79	20	0	0.79		*				36	6					
2025CPT.01.10.20662	Northampton	11	SR-1370 / W CHURCH ST	FROM SR 1316 (BUCK HOWELL RD.) TO NC 305	4	2	2WU	0.21	18	0	0.21		*										
2025CPT.01.10.20662	Northampton	12	SR-1384 / PARK ST	FROM SR 1385 (CALVERT ST.) TO NC 305	4	2	2WU	0.41	18	0	0.41		*										
2025CPT.01.10.20662	Northampton	13	SR-1385 / CALVERT ST	FROM SR 1384 (PARK ST.) TO NC 186	4	2	2WU	0.22	17	0	0.22		*			40	36		2				
2025CPT.01.10.20662	Northampton	14	SR-1387 / RAMP RD	FROM SR 1310 (OLD HIGHWAY RD.) TO US 301	4	2	2WU	0.12	13	0	0.12		*										
TOTAL FOR PROJ NO. 2025CPT.01.10.20662								4.224					*			164	186	12	8				
																		20					
GRAND TOTAL								9.204				566	1	55,347	50,421	204	445	24	10	38	6	3	3
														105,768				34				50	

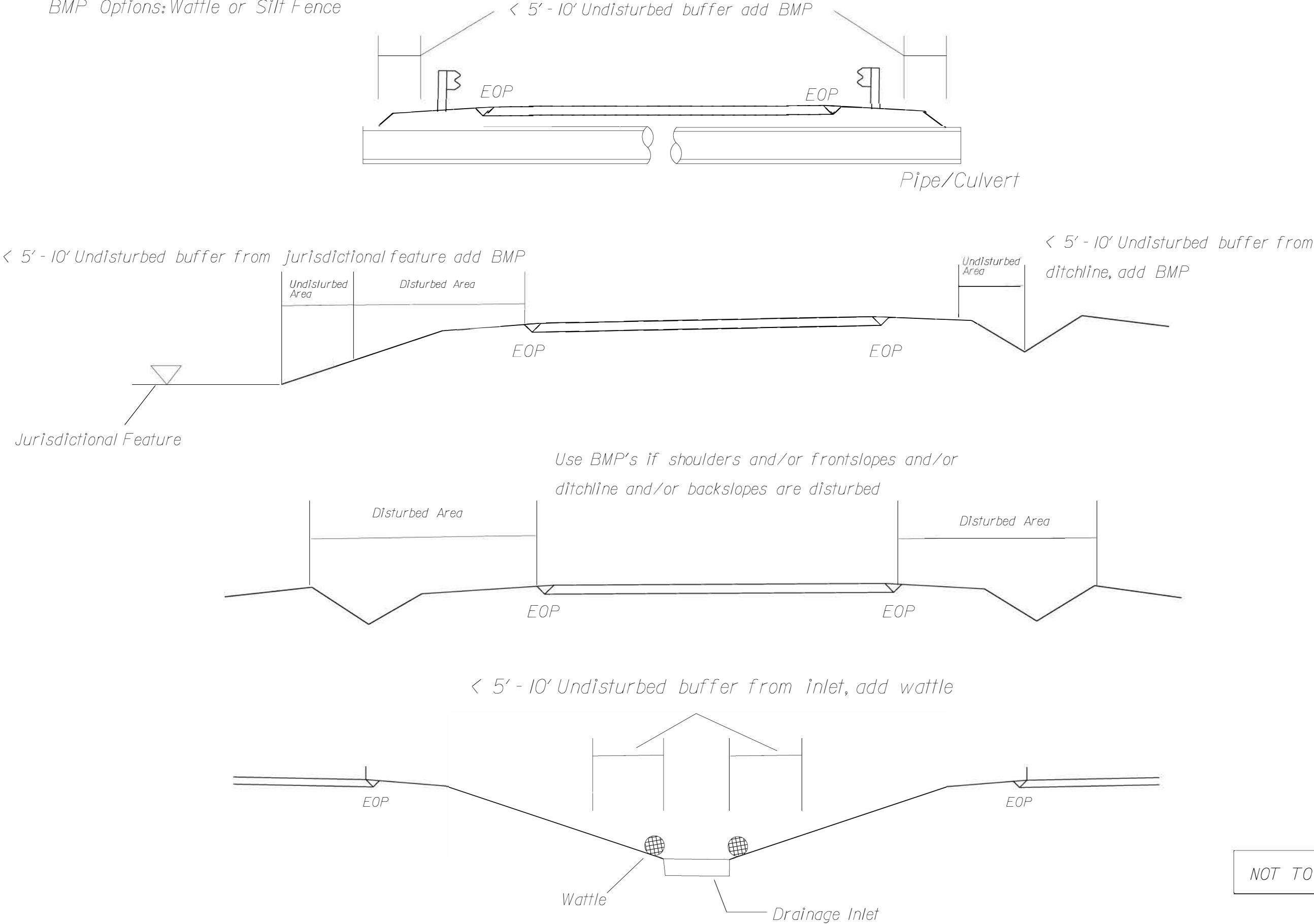
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING LINES (16")	PAINT PAVEMENT MARKING LINES (24")	PAINT PAVEMENT MARKING CHARACTER (MSG SCHOOL)	PAINT PAVEMENT MARKING CHARACTER (MSG RXR)	PAINT PAVEMENT MARKING SYMBOL (LT ARROW)	PAINT PAVEMENT MARKING SYMBOL (STR ARROW)	PAINT PAVEMENT MARKING SYMBOL (STR & RT ARROW)	PAINT PAVEMENT MARKING SYMBOL (RT ARROW)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (4", 65 MILS) WHITE	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (4", 65 MILS) YELLOW	GENERIC PAVEMENT MARKING ITEM (POLYCARBONATE H-SHAPED MARKERS)
								MI	FT			LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	LF	LF	EA
																LF	LF	LF	LF	EA	EA	EA	EA	EA
2025CPT.01.10.10661	Northampton	1	NC-46 E / NC 46 HWY	FROM R-2582A PROJECT LIMITS TO BEGIN PROJECT LIMITS 80129	1	2	2WU	1.68	27	3.38	5.06	17,741	14,280					7	4					111
2025CPT.01.10.10661	Northampton	2	NC-46 E / NC 46 HWY/GARYSBURG RD/LAWRENCEVILLE RD	FROM END PROJECT LIMITS 80129 TO 135' W OF NC 48	2	2	2WU	1.22	36	5.33	6.55	4,025	15,153		159			27	1	2	1			81
2025CPT.01.10.10661	Northampton	3	NC-48 E / PLEASANT HILL RD/NC 48 HWY	FROM 150' S OF NC 46 TO NC 186	1	2	2WU	3.18	24	1.34	4.52	33,581	20,988		58	12		4	1	1	2			210
TOTAL FOR PROJ NO. 2025CPT.01.10.10661								2.9				55,347	50,421		217	12		38	6	3	3			402
												105,768					12		50					
2025CPT.01.10.20661	Northampton	4	SR-1213 / OLD GASTON RD	FROM DEAD END TO NC 46	3	2	2WU	1.37	21	0	1.37	14,467	14,467									14,467	14,467	
2025CPT.01.10.20661	Northampton	5	SR-1310 / OLD HIGHWAY RD	FROM R-2582A PROJECT LIMITS	3	2	2WU	0.71	18	0.17	0.88	7,498	4,686	40	42		2					7,498	4,686	
TOTAL FOR PROJ NO. 2025CPT.01.10.20661								2.08				21,965	19,153	40	42		2					21,965	19,153	
												41,118					2					41,118		
2025CPT.01.10.20662	Northampton	6	SR-1206 / STEPHENSON RD	FROM DEAD END TO US 301	4	2	2WU	1	19	0	1	10,560	6,600	84	54		4					10,560	6,600	
2025CPT.01.10.20662	Northampton	7	SR-1207 / OLD HIGHWAY RD/GARYSBURG ST	FROM NC 46 TO SR 1310 (OLD HIGHWAY RD.)	4	2	2WU	0.545	17	0	0.545	5,755	5,755	40	16		2					5,755	5,755	
2025CPT.01.10.20662	Northampton	8	SR-1219 / PORCH DR	FROM DEAD END TO SR 1209 (OLD EMPORIA RD.)	4	2	2WU	0.64	18	0	0.64		6,758										6,758	
2025CPT.01.10.20662	Northampton	9	SR-1246 / ROOSEVELT ST	FROM SR 1281 (BROUGHTON ST.) TO SR 1209 (OLD EMPORIA RD.)	4	2	2WU	0.289	25	0	0.289				44	6								
2025CPT.01.10.20662	Northampton	10	SR-1281 / BROUGHTON ST	FROM SR 1246 (ROOSEVELT ST.) TO NC 46	4	2	2WU	0.79	20	0	0.79	8,342	5,214		36	6						8,342	5,214	
2025CPT.01.10.20662	Northampton	11	SR-1370 / W CHURCH ST	FROM SR 1316 (BUCK HOWELL RD.) TO NC 305	4	2	2WU	0.21	18	0	0.21		2,218										2,218	
2025CPT.01.10.20662	Northampton	12	SR-1384 / PARK ST	FROM SR 1385 (CALVERT ST.) TO NC 305	4	2	2WU	0.41	18	0	0.41	4,330	4,330									4,330	4,330	
2025CPT.01.10.20662	Northampton	13	SR-1385 / CALVERT ST	FROM SR 1384 (PARK ST.) TO NC 186	4	2	2WU	0.22	17	0	0.22	2,323	2,323	40	36		2					2,323	2,323	
2025CPT.01.10.20662	Northampton	14	SR-1387 / RAMP RD	FROM SR 1310 (OLD HIGHWAY RD.) TO US 301	4	2	2WU	0.12	13	0	0.12													
TOTAL FOR PROJ NO. 2025CPT.01.10.20662								4.224				31,310	33,198	164	186	12	8					31,310	33,198	
												64,508					20					64,508		
GRAND TOTAL								9.204				108,622	102,772	204	445	24	10	38	6	3	3	53,275	52,351	402
												211,394				34			50			105,626		

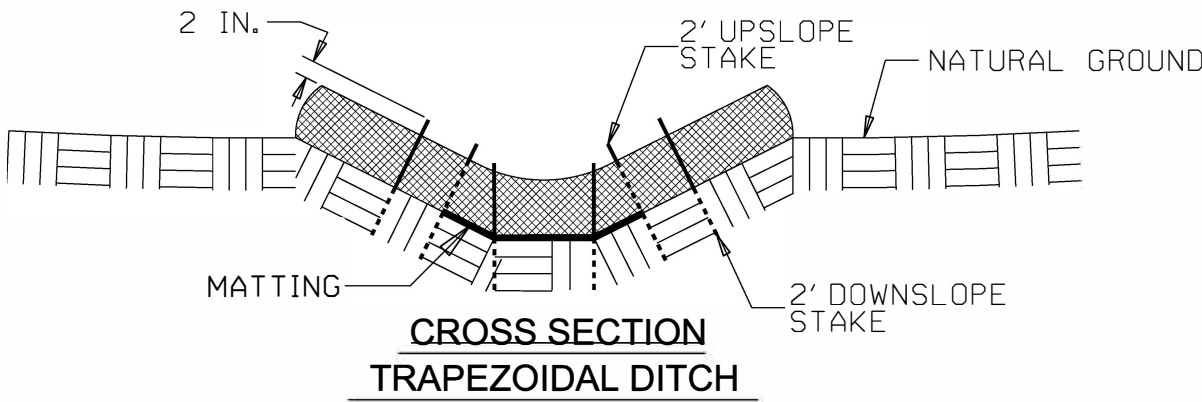
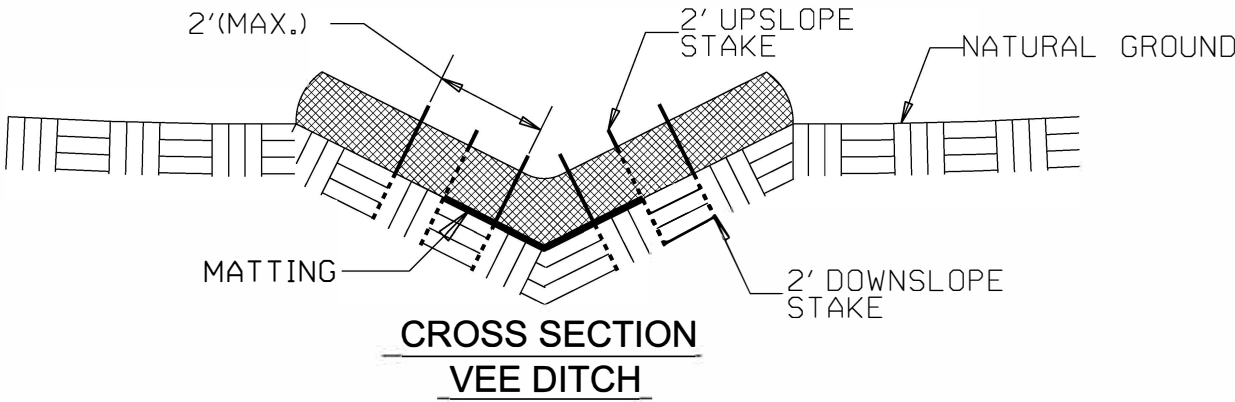
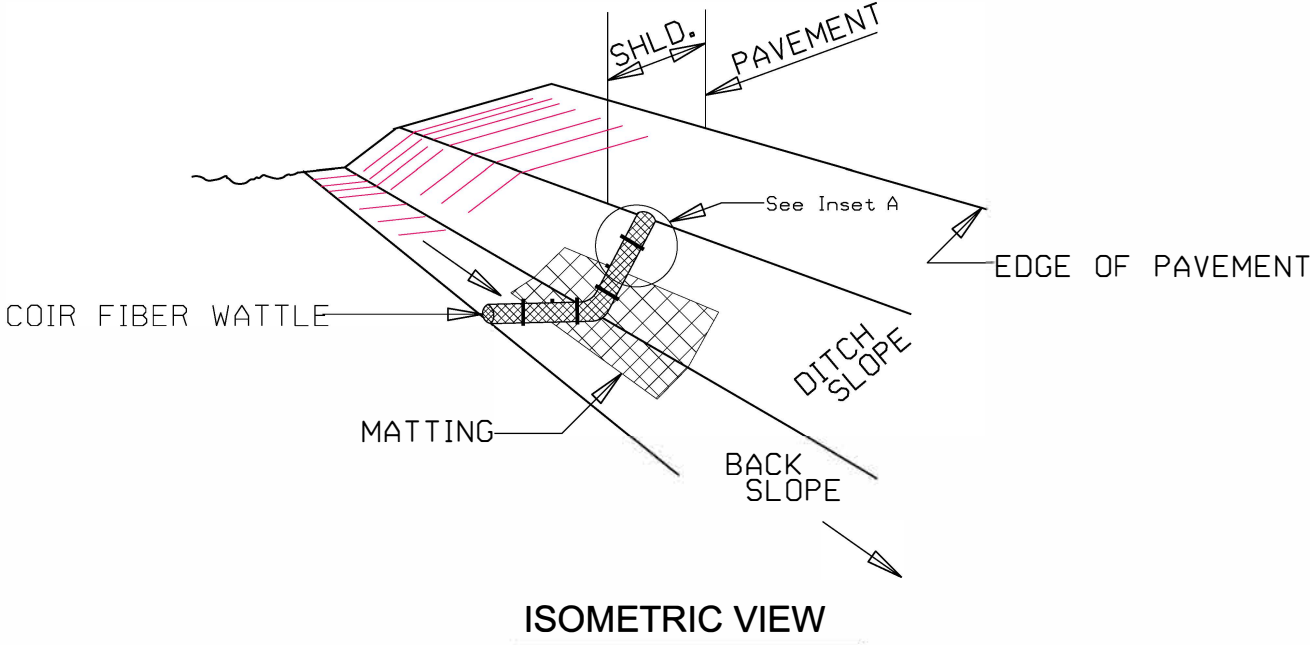
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

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.

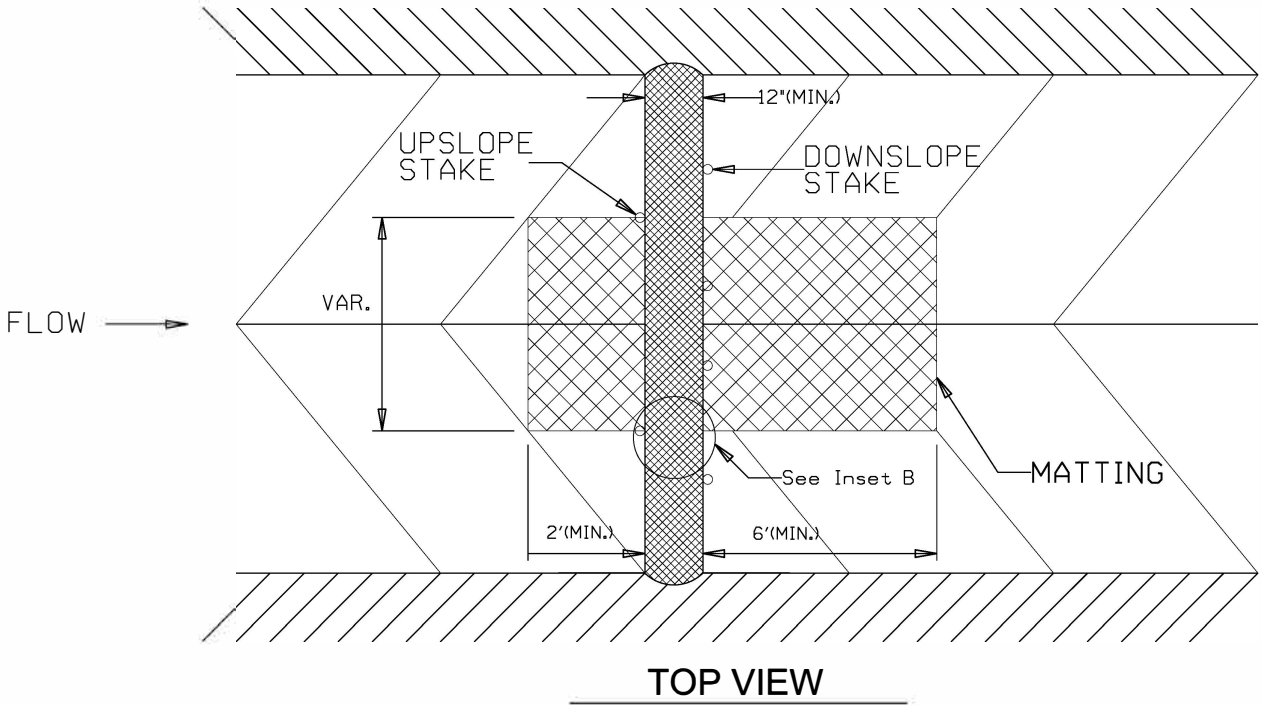
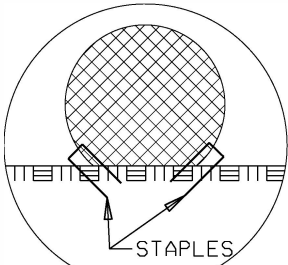
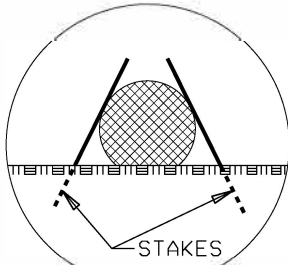
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

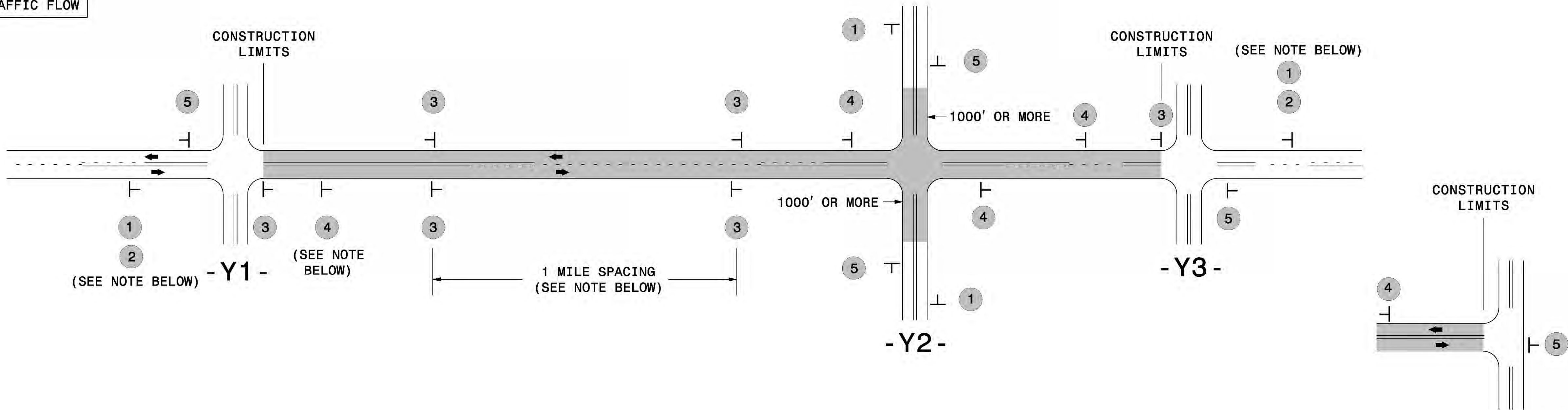
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	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	1 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 CONSTRUCTION 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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.
	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 1/2 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.	
	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