

PROJECT: 49291.3.3 TIP: HS-2010C

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
**ANSON, UNION & MECKLENBURG
 COUNTIES**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49291.3.3	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49291.1.3	0218017	P.E.	
49291.3.3	0218017	R/W	
		CONST.	

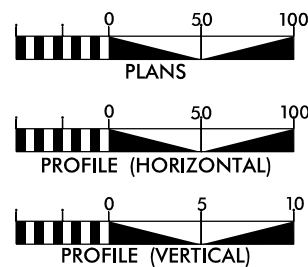
LOCATION: NC 218 FROM EAST OF I-485 (MM 1.17 MECKLENBURG)
 TO THE CITY LIMITS OF POLKTON (MM 6.76 ANSON)

TYPE OF WORK: SINUSOIDAL MILLED RUMBLE STRIPS, AND THERMOPLASTIC PAVEMENT MARKINGS



BEGIN ON NC 218 EAST OF I-485 (MM 1.17 MECKLENBURG)
 END AT THE CITY LIMITS OF POLKTON (MM 6.76 ANSON)

GRAPHIC SCALES



DESIGN DATA

ADT = N/A
 ADT = N/A
 DHV = N/A %
 D = N/A %
 T = N/A %
 V = N/A MPH

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 49291.3.3 = 29.5 MILES
 TOTAL LENGTH OF STATE PROJECT 49291.3.3 = 29.5 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
 DIVISION TEN
 DIVISION DESIGN / CONSTRUCT UNIT

RIGHT OF WAY DATE:
 N/A

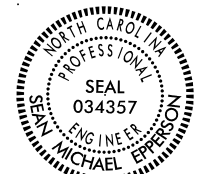
LETTING DATE:
 APRIL 20, 2022

DONALD HARWARD
 PROJECT ENGINEER

JASON BROOKS
 PROJECT DESIGN ENGINEER

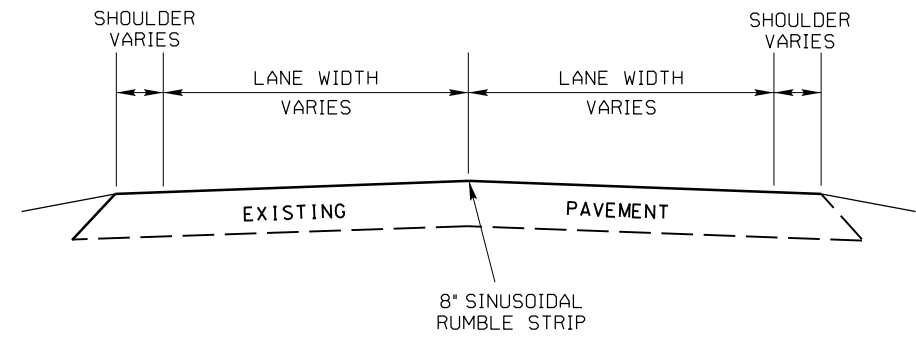
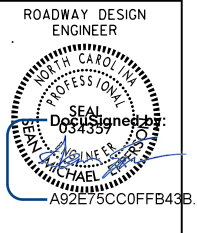


ROADWAY DESIGN ENGINEER

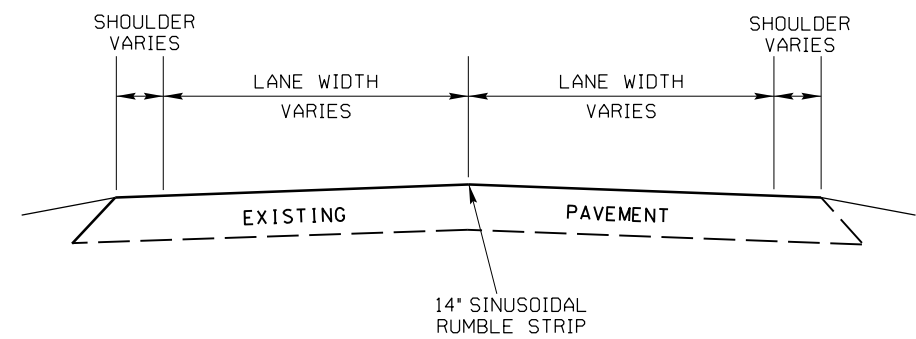


Designed by: *[Signature]*
 SIGNATURE

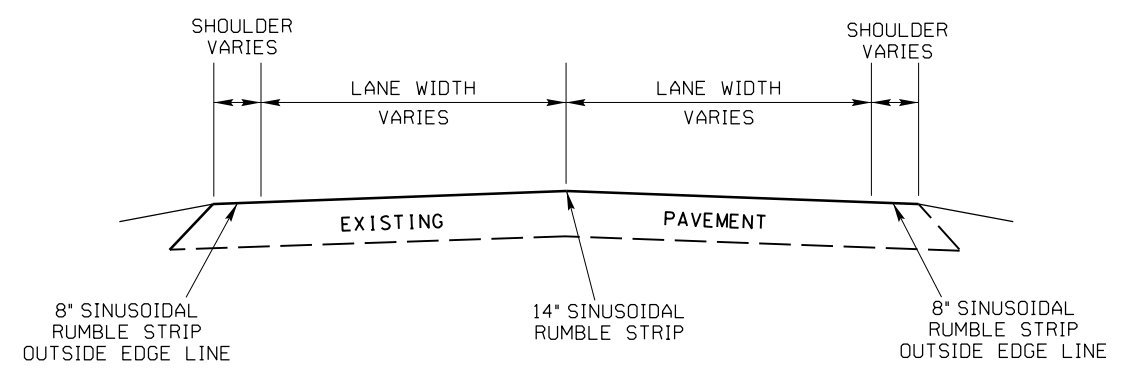
PROJECT NO.	SHEET NO.
49291.3.3	2
F.A. PROJECT NO.	



TYPICAL SECTION NO. 3
 FROM MM 0.00 (ANSON) TO MM 6.76 (ANSON)
 *USE DETAIL SHEET 2A



TYPICAL SECTION NO. 2
 FROM MM 1.33 (UNION) TO MM 0.00 (ANSON)
 *USE DETAIL SHEET 2A

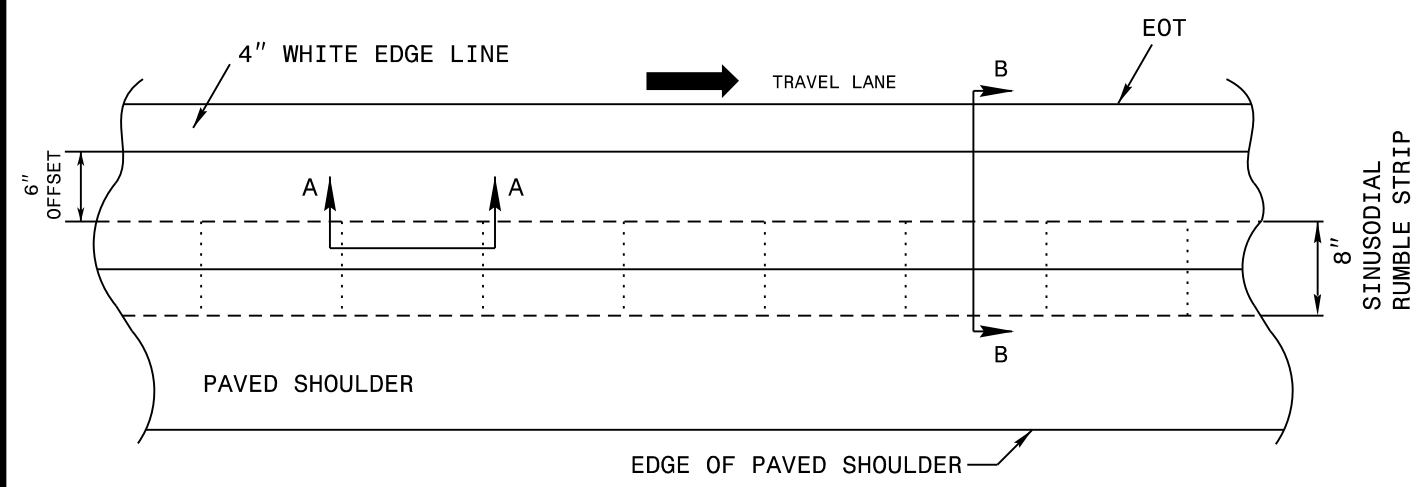


TYPICAL SECTION NO. 1
 FROM 1.17 MM (MECKLENBURG) TO MM 1.33 (UNION)
 *USE DETAIL SHEET 2A

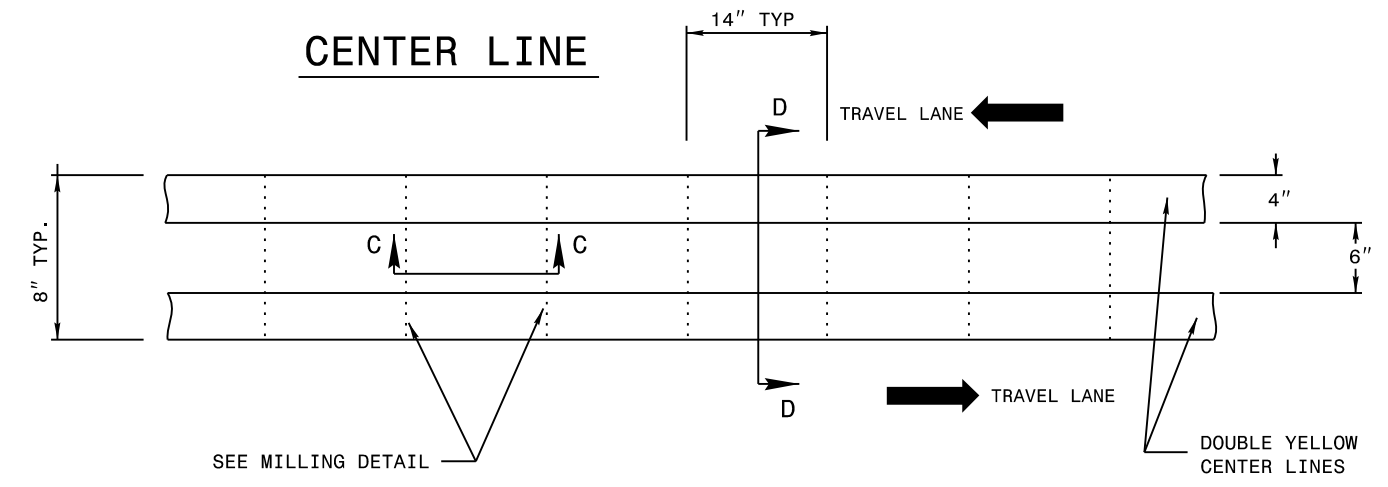
RUMBLE STRIPS ON NC 218 FROM EAST OF I-485 (MM 1.17 MECKLENBURG) TO THE CITY LIMITS OF POLKTON (MM 6.76 ANSON)		REVISIONS
SCALE	N/A	
DATE	1-2022	
DWG. BY	JCB	
DESIGN BY	JCB	
APPROVED	JDH	



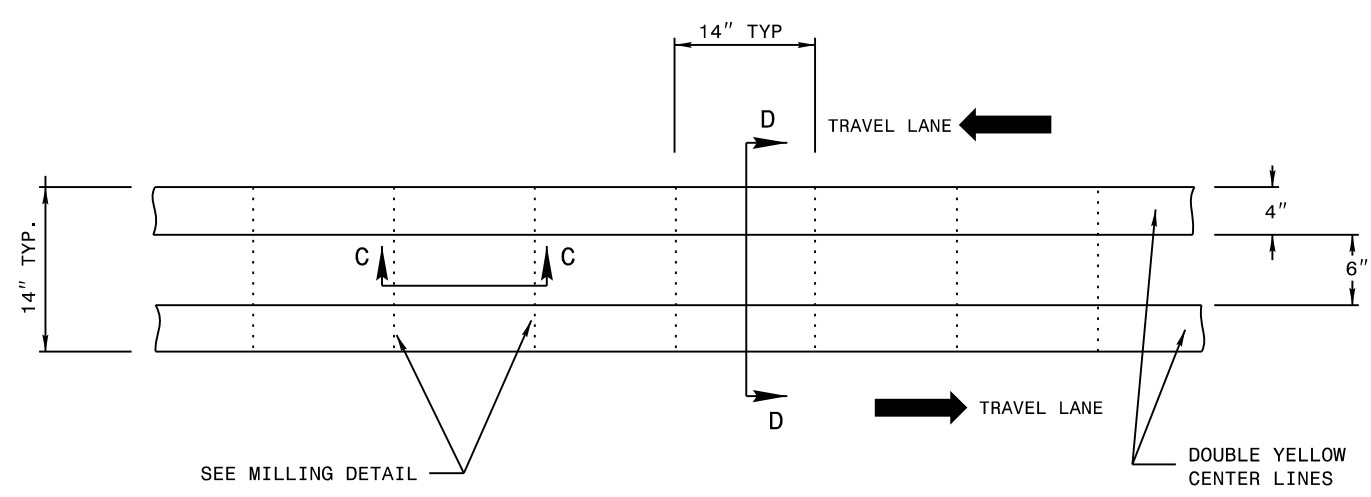
EDGE LINE TREATMENT



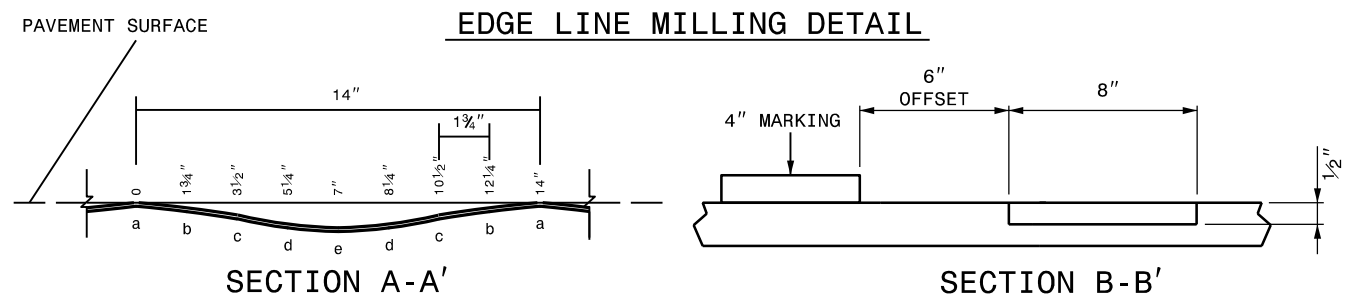
CENTER LINE



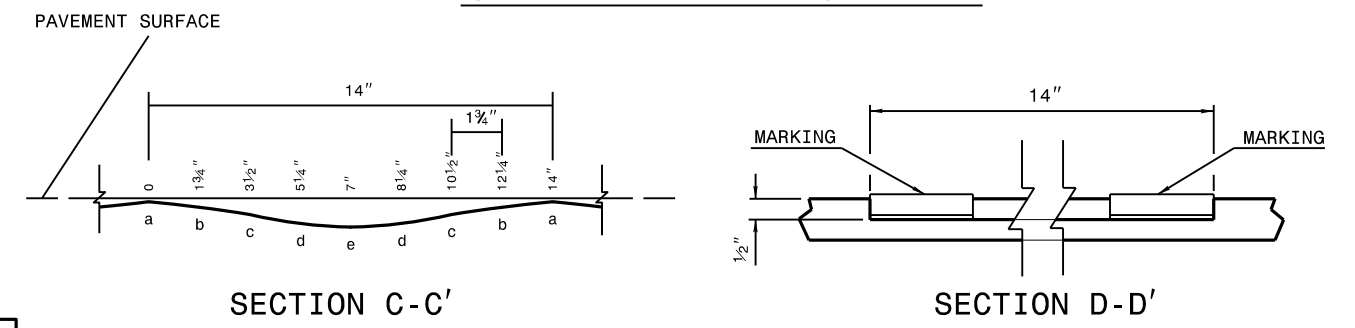
CENTER LINE



EDGE LINE MILLING DETAIL



CENTER LINE MILLING DETAIL

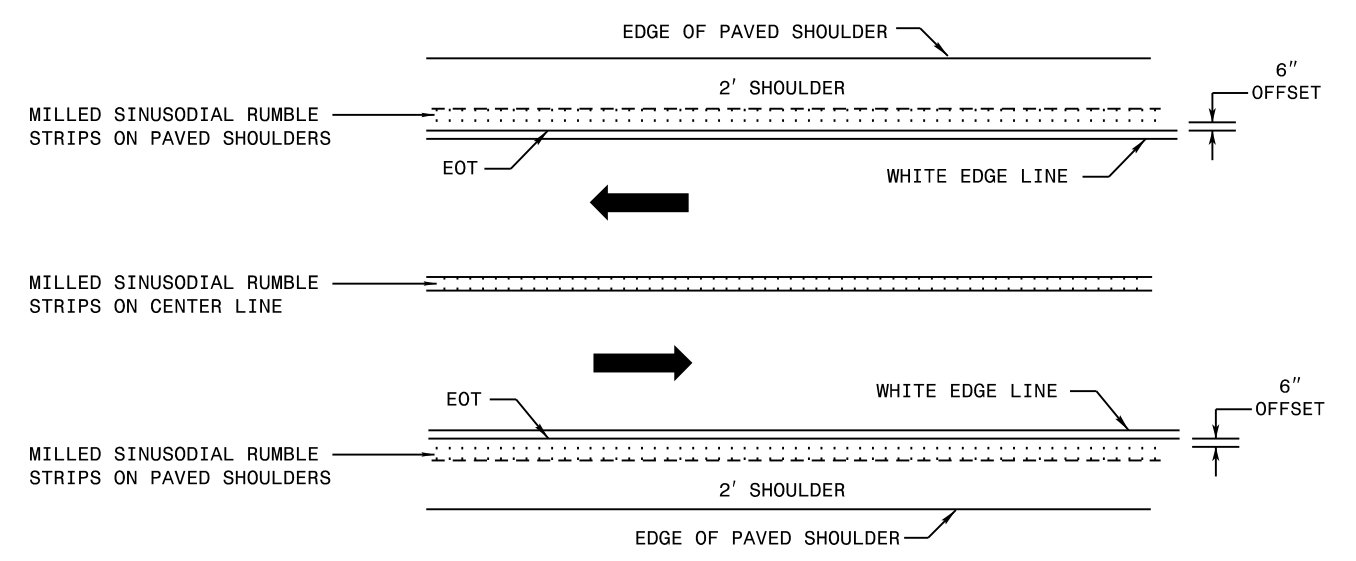


NOTES:

- 1) PAVEMENT MARKING MATERIAL SHALL BE THERMOPLASTIC.
- 2) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS. THIS WORK IS INCIDENTAL TO THE SINUSOIDAL MILLED RUMBLES.
- 3) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 4) PLACE MILLED SINUSOIDAL RUMBLES AS SHOWN ABOVE IN THIS DETAIL ON BOTH SHOULDERS IN BOTH DIRECTIONS WHERE NECESSARY.
- 5) IF SNOWPLOWABLE MARKERS ARE TO BE INSTALLED IN THE CENTERLINE, SKIP A 24" SPACE IN THE RUMBLE STRIPES EVERY 80'.
- 6) AT INTERSECTIONS, PLACE MILLED SINUSOIDAL RUMBLES TO THE END OF THE DOUBLE YELLOW CENTER LINE. ALSO, PLACE MILLED SINUSOIDAL RUMBLES TO THE BEGINNING OF THE RADIUS POINT ON EDGELINES. ONCE THE INTERSECTION IS CLEARED, PLACE MILLED SINUSOIDAL RUMBLES AT THE BEGINNING OF THE DOUBLE YELLOW CENTER LINE. ALSO, PLACE MILLED SINUSOIDAL RUMBLES FROM THE ENDING RADIUS POINT ON EDGELINES.
- 7) DO NOT PLACE MILLED SINUSOIDAL RUMBLES ON CONCRETE BRIDGE DECKS.

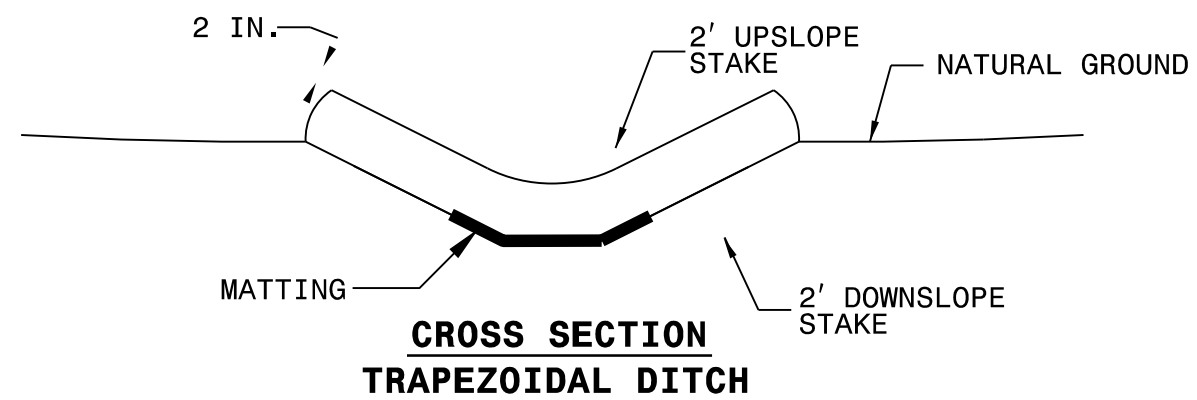
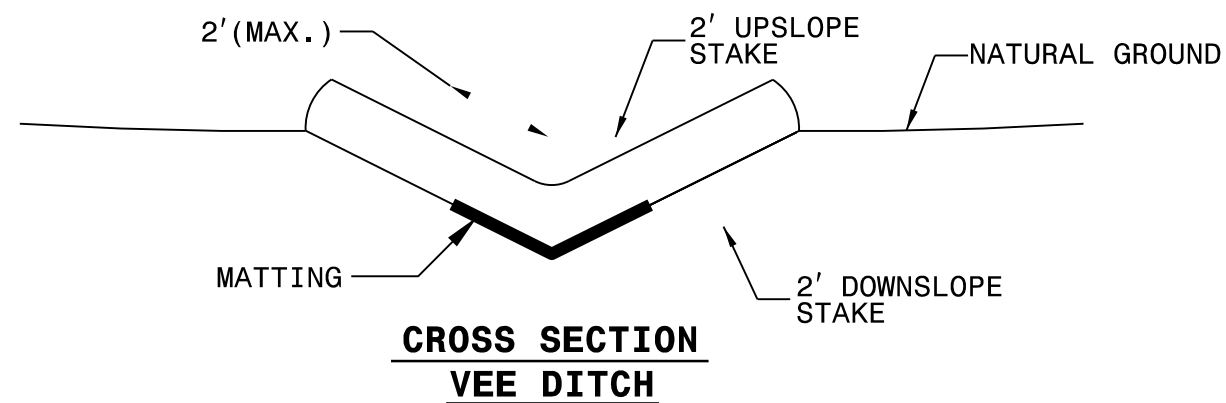
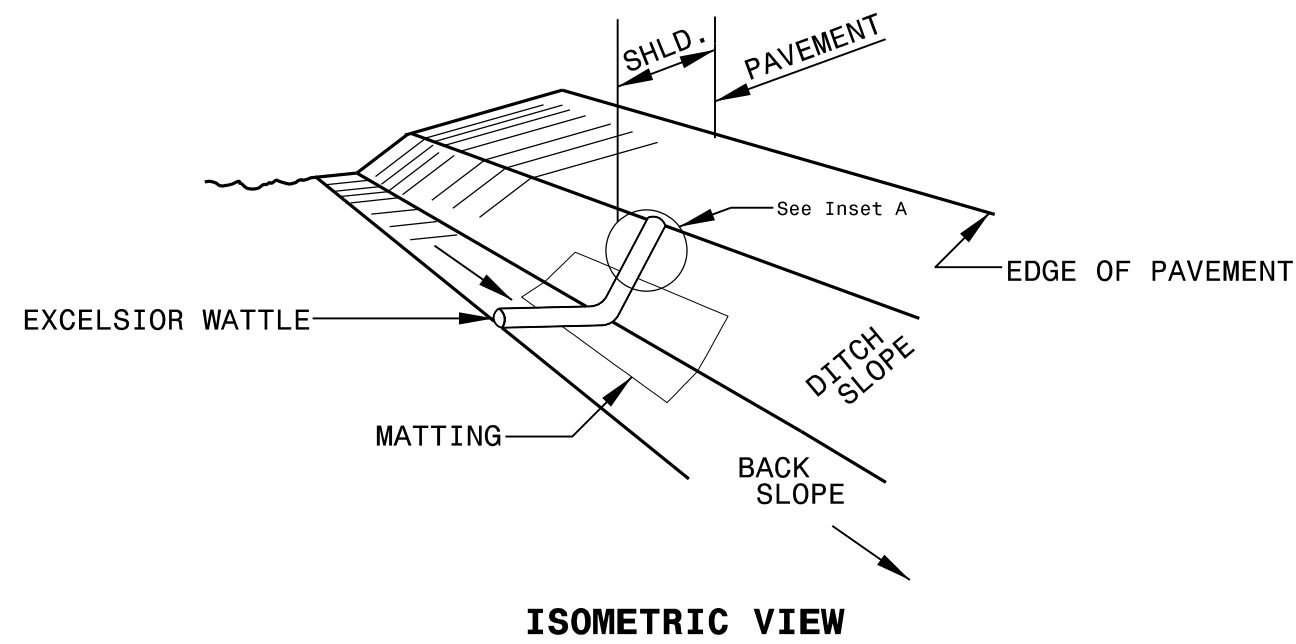
LOCATION	DEPTH	
	MIL	INCHES
a	62.5	1/16"
b	156	5/32"
c	281	9/32"
d	438	7/16"
e	500	1/2"

LANE TREATMENT



7/25/2016
03-MAR-2022 14:32
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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.

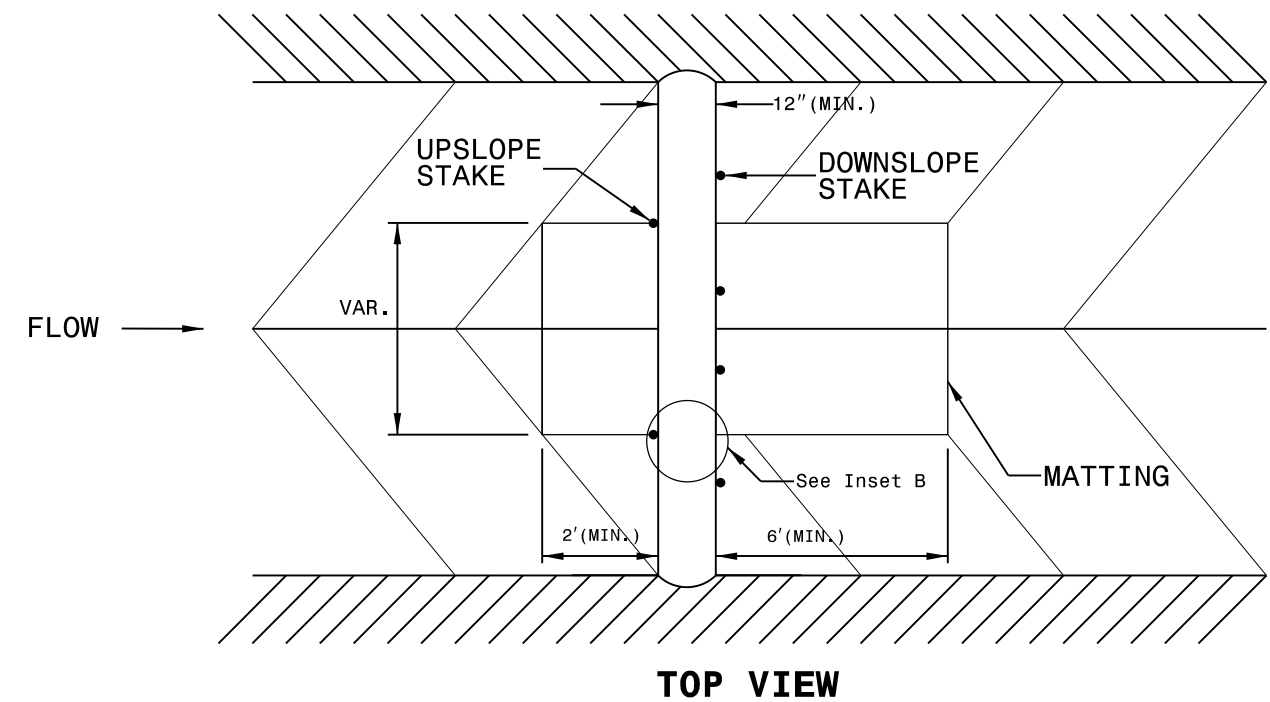
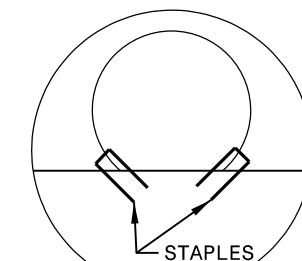
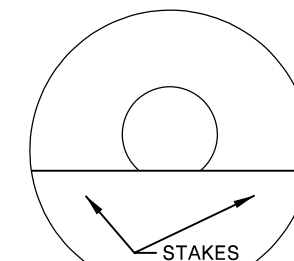
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.

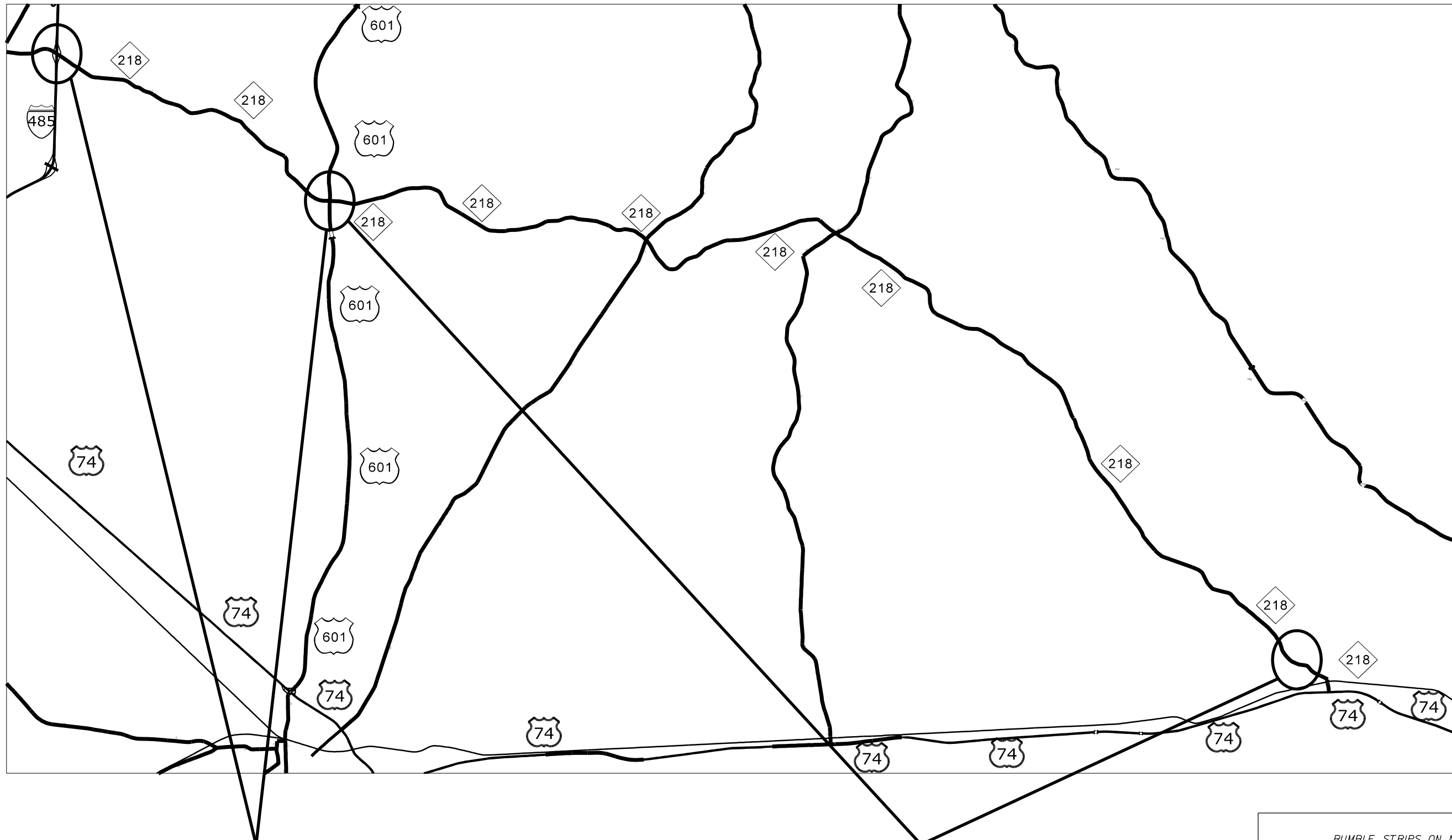
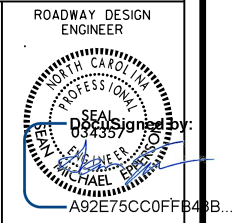
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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



THERMOPLASTIC PAVEMENT MARKING PLAN

PROJECT NO.	SHEET NO.
49291.3.3	3
F.A. PROJECT NO.	



FROM MM 1.17 (MECKLENBURG) TO MM 4.40 (UNION)
 4" THERMOPLASTIC PAVEMENT MARKINGS IN CENTERLINE

FROM MM 4.40 (UNION) TO MM 6.76 (ANSON)
 4" THERMOPLASTIC PAVEMENT MARKINGS IN CENTERLINE
 6" THERMOPLASTIC PAVEMENT MARKINGS EDGELINE

RUMBLE STRIPS ON NC 218
 FROM EAST OF I-485 (MM 1.17 MECKLENBURG)
 TO THE CITY LIMITS OF POLKTON (MM 6.76 ANSON)

SCALE	N/A		REVISIONS
DATE	3-2022		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		