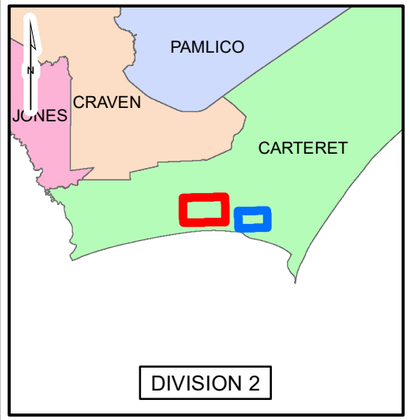


CARTERET COUNTY

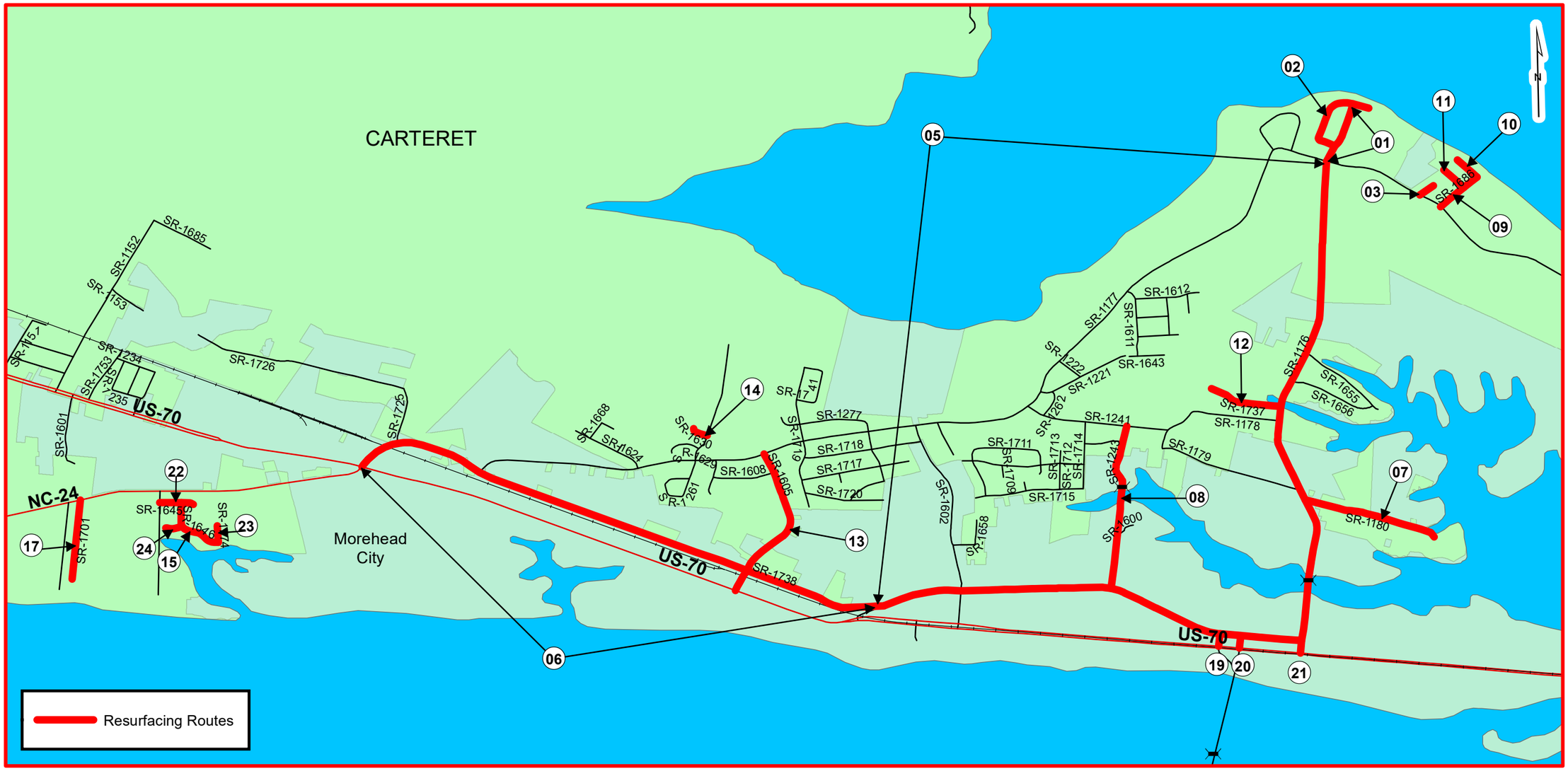
DB00488

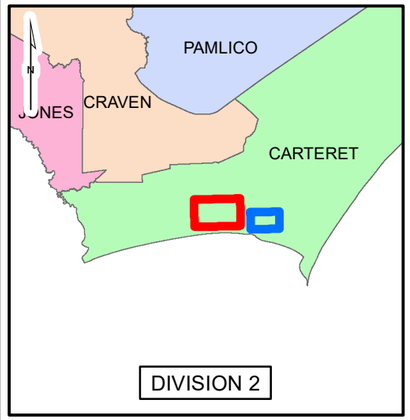
WBS# 2021CPT.02.01.20161

PROJECT REFERENCE NO.	SHEET NO.
DB00488	1

NCDOT
DIVISION 2

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





CARTERET COUNTY

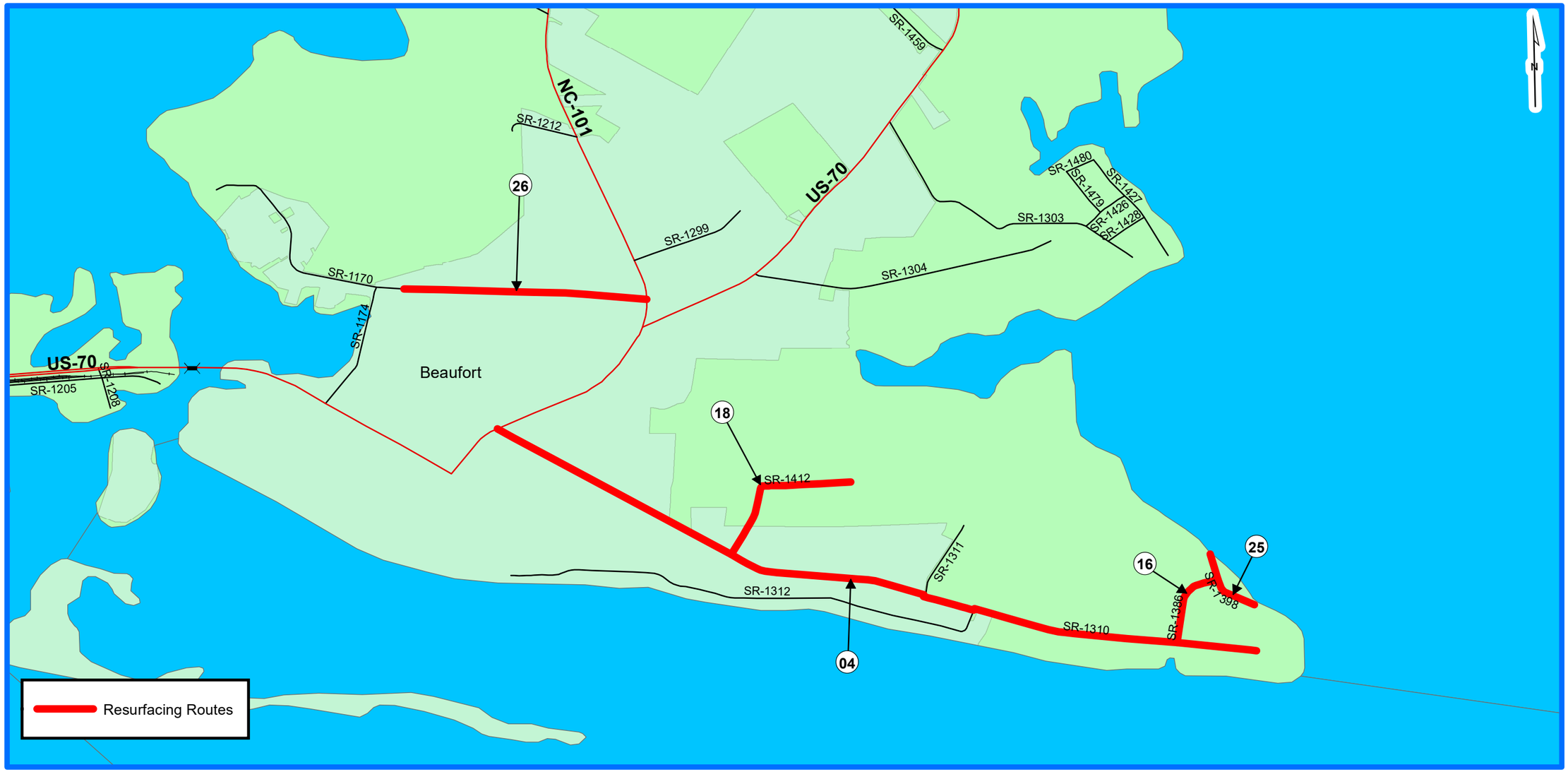
DB00488

WBS# 2021CPT.02.01.20161

PROJECT REFERENCE NO.	SHEET NO.
DB00488	2

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

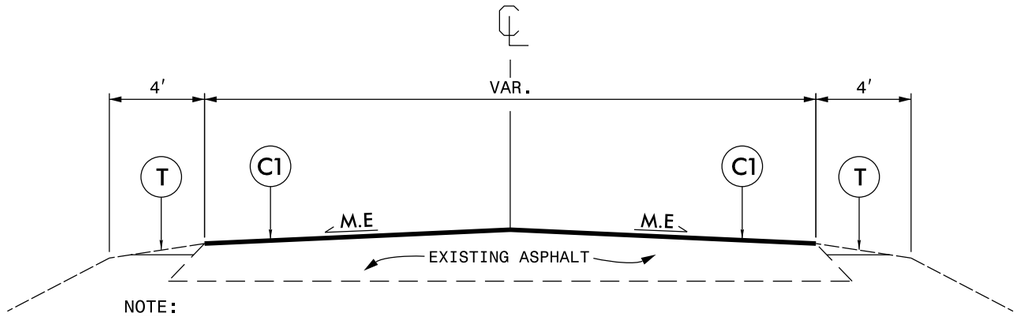
NCDOT
DIVISION 2



PROJECT REFERENCE NO.	SHEET NO.
DB00488	3

TYPICAL SECTION NO. 1

MAP 1,2

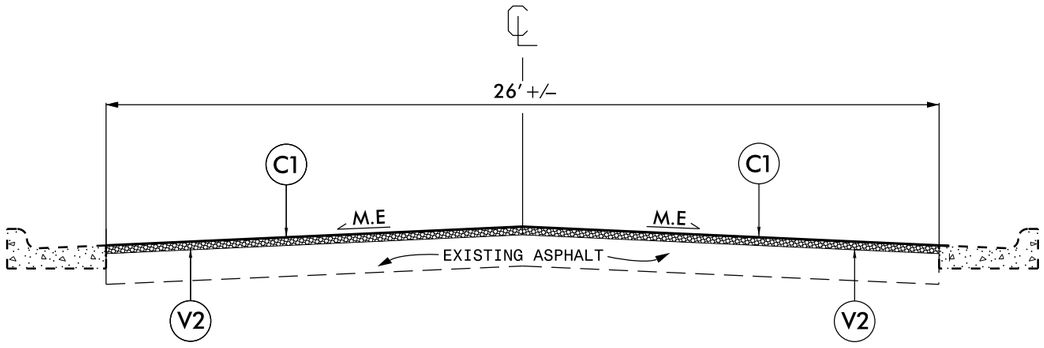


NOTE:

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.
3. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

TYPICAL SECTION NO. 2

MAP 3



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 & 2.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
C5	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 196 LBS. PER SQ. YD.
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. 4" ACBC, TYPE B25.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION.
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1" FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 1.5" FOR THE ENTIRE WIDTH OF ROADWAY.
V4	MILLING DEPTH 1.75" FOR ENTIRE WIDTH OF ROADWAY.
V5	0-1.5" DEPTH MILLING.

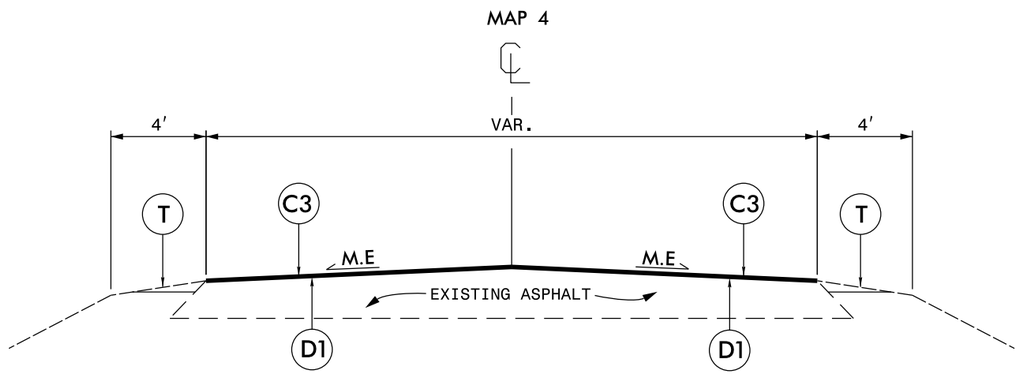
DRAWINGS NOT TO SCALE

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

PROJECT REFERENCE NO.	SHEET NO.
DB00488	4

TYPICAL SECTION NO. 3

MAP 4



NOTE:

1 PLACE ASPHALT INTERMEDIATE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.

2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.

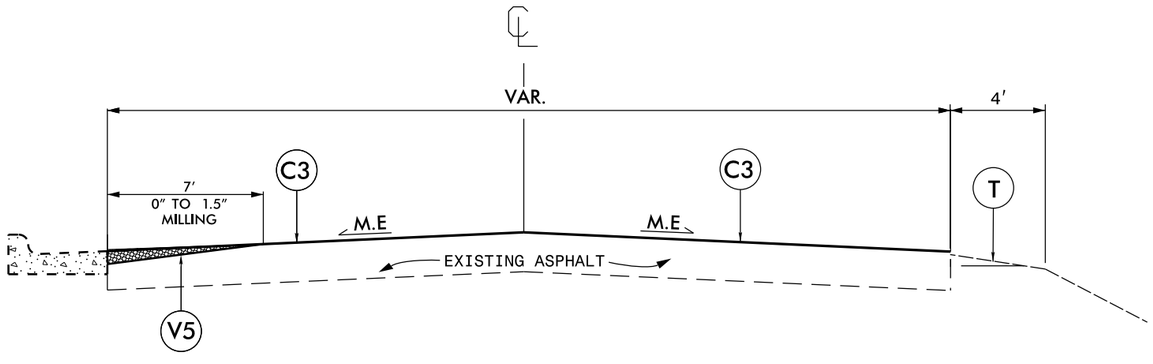
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.

4. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

5. REFER TO SHEET 10: STRENGTHENING - I19.0C SECTION FOR AREAS THAT REQUIRE STRENGTHENING.

TYPICAL SECTION NO. 4

MAP 4
STA. 56+81 – 62+57
STA. 68+25 – 72+22



NOTE:

1. MILL 0″ TO 1.5″ FOR 7′ WIDE SECTION, TO OBTAIN A MILLED DEPTH OF 1.5″ AT THE LIP OF CURB AND GUTTER, OR AS DIRECTED BY THE ENGINEER.

2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, OR AS DIRECTED BY THE ENGINEER.

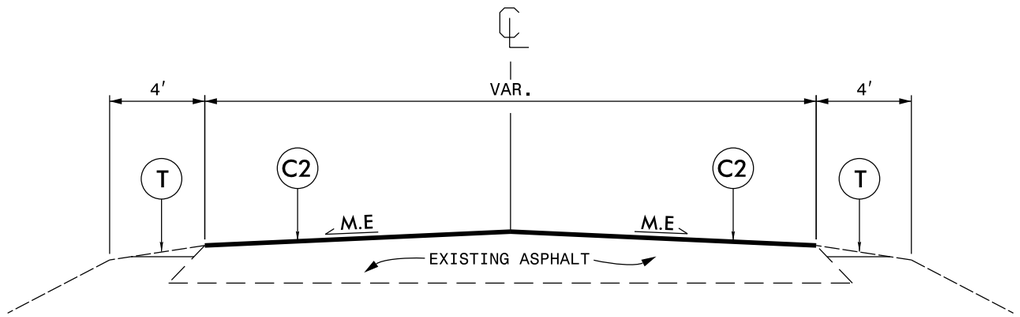
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 1 1/2″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 3/4″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
C5	PROP. APPROX. 1 3/4″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 196 LBS. PER SQ. YD.
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. 4″ ACBC, TYPE B25.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION.
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1″ FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 1.5″ FOR THE ENTIRE WIDTH OF ROADWAY.
V4	MILLING DEPTH 1.75″ FOR ENTIRE WIDTH OF ROADWAY.
V5	0-1.5″ DEPTH MILLING.
DRAWINGS NOT TO SCALE	

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

TYPICAL SECTION NO. 5

MAP 5(20TH STREET),8

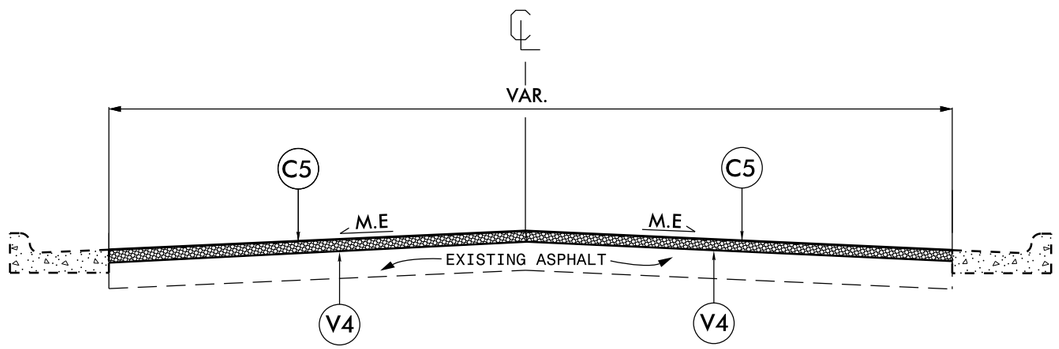


NOTE:

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. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

TYPICAL SECTION NO. 6

MAP 5(BRIDGES STREET),6,19,20,21



NOTE:

1. PERFORM 1.75" 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.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
C5	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 196 LBS. PER SQ. YD.
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. 4" ACBC, TYPE B25.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION.
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1" FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 1.5" FOR THE ENTIRE WIDTH OF ROADWAY.
V4	MILLING DEPTH 1.75" FOR ENTIRE WIDTH OF ROADWAY.
V5	0-1.5" DEPTH MILLING.

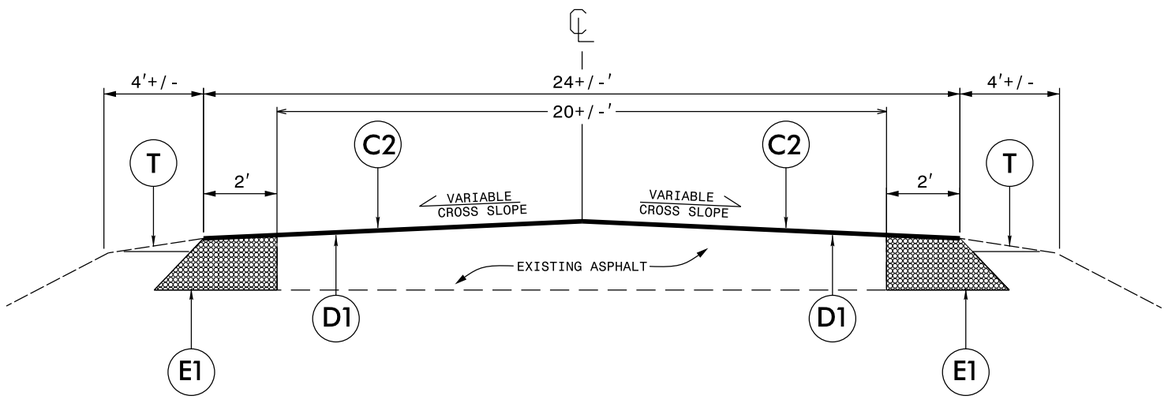
DRAWINGS NOT TO SCALE

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

PROJECT REFERENCE NO.	SHEET NO.
DB00488	6

TYPICAL SECTION NO. 7

MAP 7

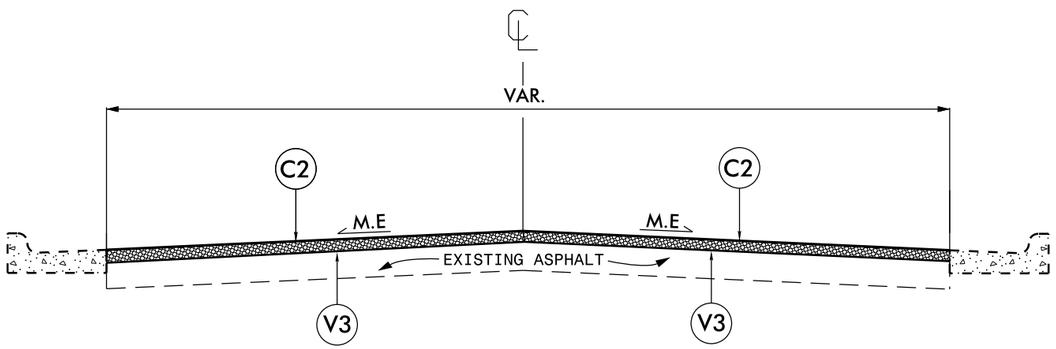


NOTE:

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.

TYPICAL SECTION NO. 8

MAP 8,9,10,11,12,13,14,15,17,22,23,24



NOTE:

1. PERFORM 1.5" 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.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
C5	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 196 LBS. PER SQ. YD.
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. 4" ACBC, TYPE B25.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION.
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1" FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 1.5" FOR THE ENTIRE WIDTH OF ROADWAY.
V4	MILLING DEPTH 1.75" FOR ENTIRE WIDTH OF ROADWAY.
V5	0-1.5" DEPTH MILLING.

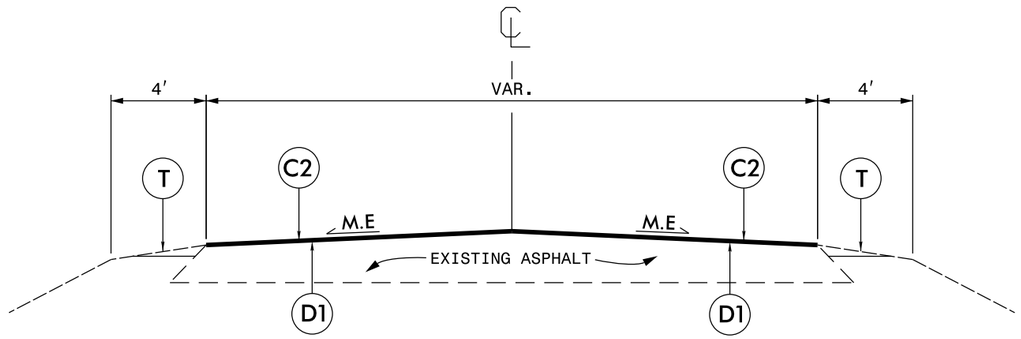
DRAWINGS NOT TO SCALE

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

PROJECT REFERENCE NO.	SHEET NO.
DB00488	7

TYPICAL SECTION NO. 9

MAP 13: NORTH OF BRIDGES ST



NOTE:

1 PLACE ASPHALT INTERMEDIATE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.

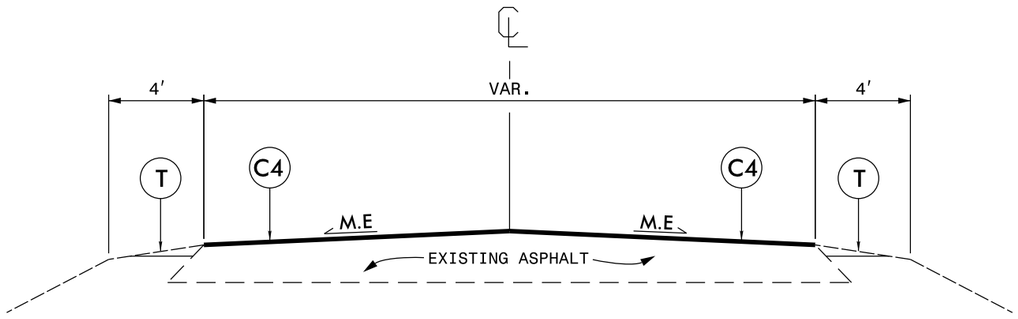
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.

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.

TYPICAL SECTION NO. 10

MAP 16,18,25,26



NOTE:

1. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.

2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.

3. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 1 1/2″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 3/4″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
C5	PROP. APPROX. 1 3/4″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 196 LBS. PER SQ. YD.
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. 4″ ACBC, TYPE B25.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION.
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1″ FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 1.5″ FOR THE ENTIRE WIDTH OF ROADWAY.
V4	MILLING DEPTH 1.75″ FOR ENTIRE WIDTH OF ROADWAY.
V5	0-1.5″ DEPTH MILLING.

DRAWINGS NOT TO SCALE

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

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00488	8	

SUMMARY OF QUANTITIES

												0262000000-N	1220000000-E	1245000000-E	1297000000-E			1308000000-E	1330000000-E	1491000000-E	1503000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	6117000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	HAULING NCDOT SUPPLIED SHOULDER MATERIAL	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1" MILLING	1.75" MILLING	1½" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	INTERMEDIATE COURSE, I19.0C	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	4" DEPTH MILL PATCHING EXISTING PAVEMENT - B 25.0 C	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL
										MI	FT	EA	TONS	SMI	SY	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TON	EA	EA	LF	LF	AC	EA
2021CPT.02.01.20161	Carteret	1	SR 1295	FROM SR 1176 TO SR 1296	1	2	2WU	NO	NO	0.29	20	12	14	0.58					300			220		15				46	60	0.29	
TOTAL FOR MAP NO. 1										**0.29**		**12**	**14**	**0.58**					**300**			**220**		**15**				**46**	**60**	**0.29**	
2021CPT.02.01.20161	Carteret	2	SR 1296	FROM SR 1295 TO END MAINTENANCE	1	2	2WU	NO	NO	0.39	20	16	20	0.78					150			340		23				62	60	0.39	
TOTAL FOR MAP NO. 2										**0.39**		**16**	**20**	**0.78**					**150**			**340**		**23**				**62**	**60**	**0.39**	
2021CPT.02.01.20161	Carteret	3	SR 1761	FROM SR 1177 TO CUL-DE-SAC	2	2	2WU	NO	NO	0.05	26				1,300				100			75		5							
TOTAL FOR MAP NO. 3										**0.05**					**1,300**				**100**			**75**		**5**							
2021CPT.02.01.20161	Carteret	4	SR 1310	FROM SR 1493 TO CUL-DE-SAC	3,4	2	2WU	NO	NO	2.22	26	133	111	4.44				950	250		4,225		2,950	380		5	6	111	100	2.78	1
TOTAL FOR MAP NO. 4										**2.22**		**133**	**111**	**4.44**				**950**	**250**		**4,225**		**2,950**	**380**		**5**	**6**	**111**	**100**	**2.78**	**1**
2021CPT.02.01.20161	Carteret	5	SR 1176	FROM BALD ST. TO 20TH ST TO SR 1177	5,6	3	MU	NO	NO	4.1	24	164	102	4.68		47,000		300	500			3,200	5,000	514		3	5	656	100	4.10	1
TOTAL FOR MAP NO. 5										**4.1**		**164**	**102**	**4.68**		**47,000**		**300**	**500**			**3,200**	**5,000**	**514**		**3**	**5**	**656**	**100**	**4.10**	**1**
2021CPT.02.01.20161	Carteret	6	SR 1738	FROM US 70 TO BALD ST	6	5	MU	NO	NO	2.27	24					86,000							9,000	540							
TOTAL FOR MAP NO. 6										**2.27**						**86,000**							**9,000**	**540**							
2021CPT.02.01.20161	Carteret	7	SR 1180	FROM SR 1176 TO END MAINTENANCE	7	2	2WU	NO	NO	0.48	20	29	24	0.96					150	310	1,100	620		108				77	100	0.60	
TOTAL FOR MAP NO. 7										**0.48**		**29**	**24**	**0.96**					**150**	**310**	**1,100**	**620**		**108**				**77**	**100**	**0.60**	
2021CPT.02.01.20161	Carteret	8	SR 1243	FROM SR 1176 TO SR 1241	5,8	2	2WU	NO	NO	0.72	24	10		0.57			7,700		120			1,100		74		2	7				
TOTAL FOR MAP NO. 8										**0.72**		**10**		**0.57**			**7,700**		**120**			**1,100**		**74**		**2**	**7**				
2021CPT.02.01.20161	Carteret	9	SR 1686	FROM SR 1177 TO SR 1687	8	2	2WU	NO	NO	0.19	26						3,000		200			300		20							
TOTAL FOR MAP NO. 9										**0.19**							**3,000**		**200**			**300**		**20**							
2021CPT.02.01.20161	Carteret	10	SR 1687	FROM SR 1686 TO CUL-DE-SAC	8	2	2WU	NO	NO	0.15	26						3,000		100			250		17							
TOTAL FOR MAP NO. 10										**0.15**							**3,000**		**100**			**250**		**17**							
2021CPT.02.01.20161	Carteret	11	SR 1688	FROM SR 1686 TO CUL-DE-SAC	8	2	2WU	NO	NO	0.11	26						2,300		100			200		13							
TOTAL FOR MAP NO. 11										**0.11**							**2,300**		**100**			**200**		**13**							
2021CPT.02.01.20161	Carteret	12	SR 1737	FROM SR 1176 TO CUL-DE-SAC	8	2	2WU	NO	NO	0.39	22						5,300		100			460		31							
TOTAL FOR MAP NO. 12										**0.39**							**5,300**		**100**			**460**		**31**							
2021CPT.02.01.20161	Carteret	13	SR 1605	FROM SR 1177 TO US 70	8,9	2	2WU	NO	NO	0.69	20	28	35	1.38			1,900		270		1,300	950		126				110	40	1.25	
TOTAL FOR MAP NO. 13										**0.69**		**28**	**35**	**1.38**			**1,900**		**270**		**1,300**	**950**		**126**				**110**	**40**	**1.25**	
2021CPT.02.01.20161	Carteret	14	SR 1630	FROM SR 1628 TO CUL-DE-SAC	8	2	2WU	NO	NO	0.06	26						1,600		100			140		9							
TOTAL FOR MAP NO. 14										**0.06**							**1,600**		**100**			**140**		**9**							
2021CPT.02.01.20161	Carteret	15	SR 1646	FROM SR 1645 TO END MAINTENANCE	8	2	2WU	NO	NO	0.28	24						4,100		100			360		24							
TOTAL FOR MAP NO. 15										**0.28**							**4,100**		**100**			**360**		**24**							
2021CPT.02.01.20161	Carteret	16	SR 1386	FROM SR 1310 TO SR 1398	10	2	2WU	NO	NO	0.26	16	10	13	0.52								250		17	25			50	60	0.33	
TOTAL FOR MAP NO. 16										**0.26**		**10**	**13**	**0.52**								**250**		**17**	**25**			**50**	**60**	**0.33**	
2021CPT.02.01.20161	Carteret	17	SR 1701	FROM NC 24 TO END MAINTENANCE	8	2	2WU	NO	NO	0.38	22						6,000		100			550		44	150						
TOTAL FOR MAP NO. 17										**0.38**							**6,000**		**100**			**550**		**44**	**150**						
2021CPT.02.01.20161	Carteret	18	SR 1412	FROM SR 1310 TO CUL-DE-SAC	10	2	2WU	NO	NO	0.47	20	19	24	0.94					100			600		40		3		50	40	0.59	
TOTAL FOR MAP NO. 18										**0.47**		**19**	**24**	**0.94**					**100**			**600**		**40**		**3**		**50**	**40**	**0.59**	
2021CPT.02.01.20161	Carteret	19	SR 1749	24 TH STREET - FROM ARENDELL ST. TO BRIDGES ST.	6	2	2WU	NO	NO	0.05	22					800							100	6							
TOTAL FOR MAP NO. 19										**0.05**						**800**							**100**	**6**							
2021CPT.02.01.20161	Carteret	20	SR 1748	23 RD ST. -FROM ARENDELL ST. TO BRIDGES ST.	6	2	2WU	NO	NO	0.05	29					1,000							100	6							
TOTAL FOR MAP NO. 20										**0.05**						**1,000**							**100**	**6**							
2021CPT.02.01.20161	Carteret	21	SR 1627	20TH STREET - FROM ARENDELL ST. TO BRIDGES ST.	6	2	2WU	NO	NO	0.05	22					700							100	6							
TOTAL FOR MAP NO. 21										**0.05**						**700**							**100**	**6**							
2021CPT.02.01.20161	Carteret	22	SR 1645	FROM SR 1297 TO CUL-DE-SAC	8	2	2WU	NO	NO	0.13	24						3,200					275		18							
TOTAL FOR MAP NO. 22										**0.13**							**3,200**					**275**		**18**							
2021CPT.02.01.20161	Carteret	23	SR 1774	FROM SR 1646 TO CUL-DE-SAC	8	2	2WU	NO	NO	0.07	24						2,700					230		15							
TOTAL FOR MAP NO. 23										**0.07**							**2,700**					**230**		**15**							
2021CPT.02.01.20161	Carteret	24	SR 1781	FROM CUL-DE-SAC TO SR 1646	8	2	2WU	NO	NO	0.06	24						2,400					210		14							
TOTAL FOR MAP NO. 24										**0.06**							**2,400**					**210**		**14**							
2021CPT.02.01.20161	Carteret	25	SR 1398	FROM EOM DAVIS BAY TO DEAD END	10	2	2WU	NO	NO	0.29	16	12	14	0.58								300		20				50	40	0.29	
TOTAL FOR MAP NO. 25										**0.29**		**12**	**14**	**0.58**								**300**		**20**				**50**	**40**	**0.29**	
2021CPT.02.01.20161	Carteret	26	SR1170	FROM BULB OUT TO NC 101	10	2	2WU	NO	NO	0.62	20	25	31	1.24								750		50				50	40	0.62	
TOTAL FOR MAP NO. 26										**0.62**		**25**	**31**	**1.24**								**750**		**50**				**50**	**40**	**0.62**	
TOTAL FOR PROJ NO. 2021CPT.02.01.20161										**14.82**		**458**	**388**	**16.67**	**1,300**	**135,500**	**43,200**	**1,250**	**2,740**	**310**	**6,625**	**11,380**	**17,250**	**2,135**	**175**	**13**	**18**	**1,262**	**640**	**11.23**	**2**
																180,000															
GRAND TOTAL										**14.82**		**458**	**388**	**16.67**	**1,300**	**135,500**	**43,200**	**1,250**	**2,740**	**310**	**6,625**	**11,380**	**17,250**	**2,135**	**175**	**13**	**18**	**1,262**	**640**	**11.23**	**2**
																180,000															

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00488	9	

TRAFFIC CONTROL

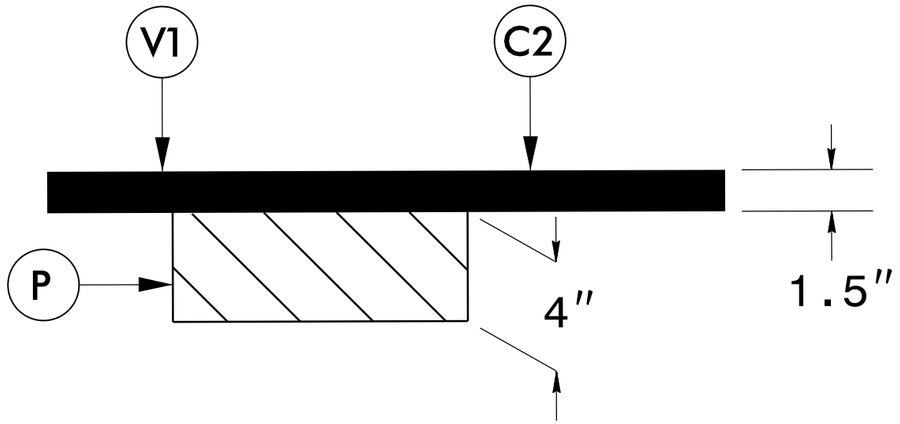
										4413000000-E	4457000000-N	4510000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT
								MI	FT	SF	LS	HR
2021CPT.02.01.20161	Carteret	1	SR 1295	FROM SR 1176 TO SR 1296	1	2	2WU	0.29	20	35	0.02	
TOTAL FOR MAP NO. 1								**0.29**		**35**	**0.02**	
2021CPT.02.01.20161	Carteret	2	SR 1296	FROM SR 1295 TO END MAINTENANCE	1	2	2WU	0.39	20	45	0.02	
TOTAL FOR MAP NO. 2								**0.39**		**45**	**0.02**	
2021CPT.02.01.20161	Carteret	3	SR 1761	FROM SR 1177 TO CUL-DE-SAC	2	2	2WU	0.05	26	10	0.01	
TOTAL FOR MAP NO. 3								**0.05**		**10**	**0.01**	
2021CPT.02.01.20161	Carteret	4	SR 1310	FROM SR 1493 TO CUL-DE-SAC	3,4	2	2WU	2.22	26	250	0.13	
TOTAL FOR MAP NO. 4								**2.22**		**250**	**0.13**	
2021CPT.02.01.20161	Carteret	5	SR 1176	FROM BALD ST. TO 20TH ST TO SR 1177	5,6	2	MU	4.10	24	130	0.27	40
TOTAL FOR MAP NO. 5								**4.10**		**130**	**0.27**	**40**
2021CPT.02.01.20161	Carteret	6	SR 1738	FROM US 70 TO BALD ST	6	2	MU	2.27	24	130	0.15	40
TOTAL FOR MAP NO. 6								**2.27**		**130**	**0.15**	**40**
2021CPT.02.01.20161	Carteret	7	SR 1180	FROM SR 1176 TO END MAINTENANCE	7	2	2WU	0.48	20	55	0.03	
TOTAL FOR MAP NO. 7								**0.48**		**55**	**0.03**	
2021CPT.02.01.20161	Carteret	8	SR 1243	FROM SR 1176 TO SR 1241	5,8	2	2WU	0.72	24	85	0.05	
TOTAL FOR MAP NO. 8								**0.72**		**85**	**0.05**	
2021CPT.02.01.20161	Carteret	9	SR 1686	FROM SR 1177 TO SR 1687	8	2	2WU	0.19	26	25	0.01	
TOTAL FOR MAP NO. 9								**0.19**		**25**	**0.01**	
2021CPT.02.01.20161	Carteret	10	SR 1687	FROM SR 1686 TO CUL-DE-SAC	8	2	2WU	0.15	26	15	0.01	
TOTAL FOR MAP NO. 10								**0.15**		**15**	**0.01**	
2021CPT.02.01.20161	Carteret	11	SR 1688	FROM SR 1686 TO CUL-DE-SAC	8	2	2WU	0.11	26	15	0.01	
TOTAL FOR MAP NO. 11								**0.11**		**15**	**0.01**	
2021CPT.02.01.20161	Carteret	12	SR 1737	FROM SR 1176 TO CUL-DE-SAC	8	2	2WU	0.39	22	35	0.02	
TOTAL FOR MAP NO. 12								**0.39**		**35**	**0.02**	
2021CPT.02.01.20161	Carteret	13	SR 1605	FROM SR 1177 TO US 70	8,9	2	2WU	0.69	20	85	0.05	20
TOTAL FOR MAP NO. 13								**0.69**		**85**	**0.05**	**20**
2021CPT.02.01.20161	Carteret	14	SR 1630	FROM SR 1628 TO CUL-DE-SAC	8	2	2WU	0.06	26	10	0.01	
TOTAL FOR MAP NO. 14								**0.06**		**10**	**0.01**	
2021CPT.02.01.20161	Carteret	15	SR 1646	FROM SR 1645 TO END MAINTENANCE	8	2	2WU	0.28	24	35	0.02	
TOTAL FOR MAP NO. 15								**0.28**		**35**	**0.02**	
2021CPT.02.01.20161	Carteret	16	SR 1386	FROM SR 1310 TO SR 1398	10	2	2WU	0.26	16	30	0.02	
TOTAL FOR MAP NO. 16								**0.26**		**30**	**0.02**	
2021CPT.02.01.20161	Carteret	17	SR 1701	FROM NC 24 TO END MAINTENANCE	8	2	2WU	0.38	22	45	0.02	
TOTAL FOR MAP NO. 17								**0.38**		**45**	**0.02**	
2021CPT.02.01.20161	Carteret	18	SR 1412	FROM SR 1310 TO CUL-DE-SAC	10	2	2WU	0.47	20	55	0.03	
TOTAL FOR MAP NO. 18								**0.47**		**55**	**0.03**	
2021CPT.02.01.20161	Carteret	19	SR 1749	24 TH STREET - FROM ARENDELL ST. TO BRIDGES ST.	6	2	2WU	0.05	22	10	0.01	20
TOTAL FOR MAP NO. 19								**0.05**		**10**	**0.01**	**20**
2021CPT.02.01.20161	Carteret	20	SR 1748	23 RD ST. -FROM ARENDELL ST. TO BRIDGES ST.	6	2	2WU	0.05	29	10	0.01	20
TOTAL FOR MAP NO. 20								**0.05**		**10**	**0.01**	**20**
2021CPT.02.01.20161	Carteret	21	SR 1627	20TH STREET - FROM ARENDELL ST. TO BRIDGES ST.	6	2	2WU	0.05	22	10	0.01	20
TOTAL FOR MAP NO. 21								**0.05**		**10**	**0.01**	**20**
2021CPT.02.01.20161	Carteret	22	SR 1645	FROM SR 1297 TO CUL-DE-SAC	8	2	2WU	0.13	24	15	0.01	
TOTAL FOR MAP NO. 22								**0.13**		**15**	**0.01**	
2021CPT.02.01.20161	Carteret	23	SR 1774	FROM SR 1646 TO CUL-DE-SAC	8	2	2WU	0.07	24	10	0.01	
TOTAL FOR MAP NO. 23								**0.07**		**10**	**0.01**	
2021CPT.02.01.20161	Carteret	24	SR 1781	FROM CUL-DE-SAC TO SR 1646	8	2	2WU	0.06	24	10	0.01	
TOTAL FOR MAP NO. 24								**0.06**		**10**	**0.01**	
2021CPT.02.01.20161	Carteret	25	SR 1398	FROM EOM DAVIS BAY TO DEAD END	10	2	2WU	0.29	16	35	0.02	
TOTAL FOR MAP NO. 25								**0.29**		**35**	**0.02**	
2021CPT.02.01.20161	Carteret	26	SR1170	FROM BULB OUT TO NC 101	10	2	2WU	0.62	20	70	0.04	
TOTAL FOR MAP NO. 26								**0.62**		**70**	**0**	
TOTAL FOR PROJ NO. 2021CPT.02.01.20161								**14.82**		**1,260**	**1**	**160**
GRAND TOTAL								**14.82**		**1,260**	**1**	**160**

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00488	10	

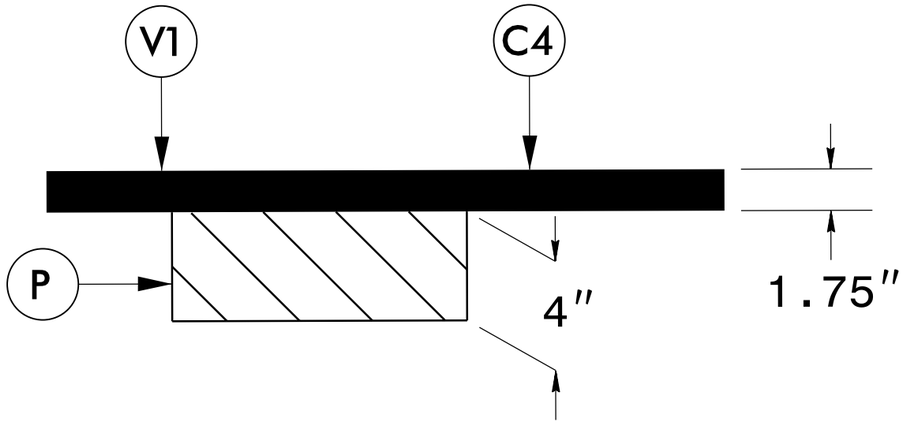
MAP									
		STRENGTHENING/LEVELING - I19.0C - 2.5"		STATION	STATION	LT	RT		
4				0+25	56+08			STOP FOR C&G	
4				62+57	68+25			STOP FOR C&G	
4				72+22	115+88				
13				3+47	3+72			R/R	
		0 - 1.5" MILLING							
4				56+81	62+57			LEFT C&G	
4				68+25	72+22			LEFT C&G	
5				14+32	14+82			BRIDGE	
5				14+82	15+32			BRIDGE	
		WIDENING - B25.0C - 4"							
7				0+00	25+35	2'	2'		
		FULL DEPTH PATCH - B25.0C - 4"							
16				2+14	2+93	79'		4' WIDTH	
16				7+76	8+35		59'	4' WIDTH	
16				9+70	10+42		72'	4' WIDTH	
17				9+30	11+87	-L-		FULL WIDTH	

4" DEPTH MILL PATCHING DETAIL

MAP 17



MAP 16



PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
V1	INCIDENTAL MILLING
P	4" DEPTH MILL PATCHING W/ B 25.0C
DRAWINGS NOT TO SCALE	

NOTE:

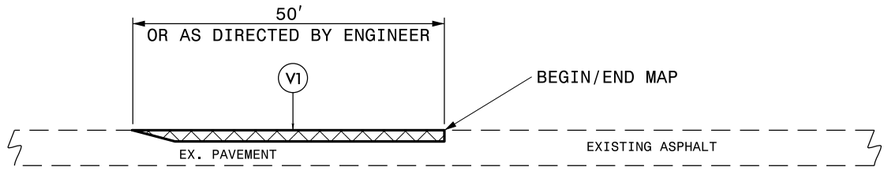
1. THE CONTRACTOR SHALL PERFORM ANY UNIFORM OR INCIDENTAL MILLING AT TIE-INS BEFORE PERFORMING THE 4" DEPTH MILL PATCHING.

2. THE CONTRACTOR SHALL PERFORM THE MILL PATCHING REMOVAL AND REPLACEMENT IN THE SAME DAY.

3. 4" DEPTH MILL PATCHING SHALL BE PERFORMED AT LOCATIONS AS SHOWN ON SHEET 10, AND AS DIRECTED BY THE ENGINEER.

PROJECT REFERENCE NO.	SHEET NO.
DB00488	DIV2-1

MILLING TYPICALS



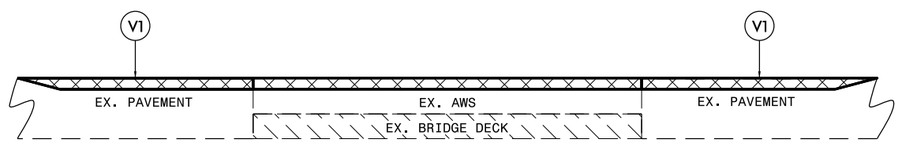
DETAIL 1
BEGIN/END MAP TIE-IN

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.

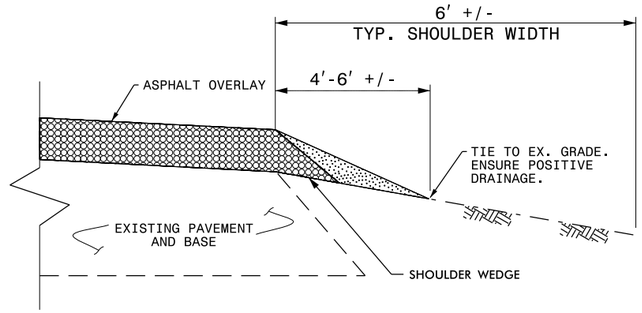


DETAIL 3
BRIDGE MILLING

NOTE:

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

SHOULDER RECONSTRUCTION TYPICAL



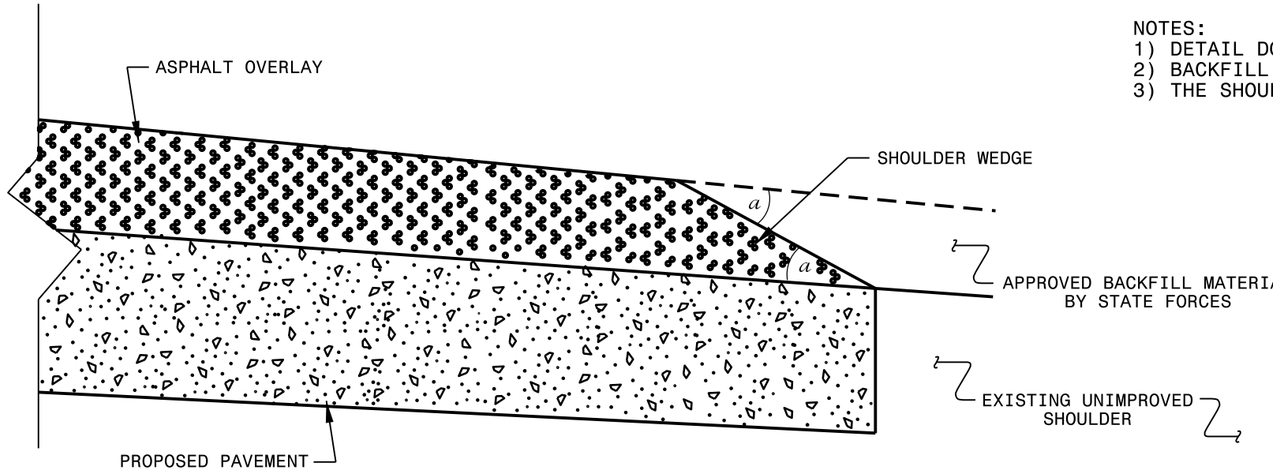
SHOULDER RECONSTRUCTION DETAIL

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.

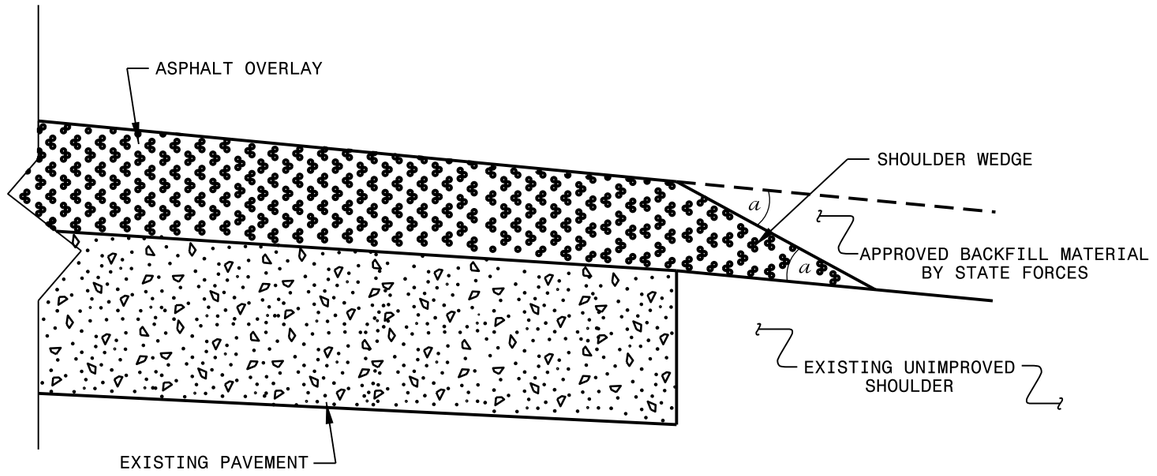
PROJECT REFERENCE NO.	SHEET NO.
DB00488	DIV2-2

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.



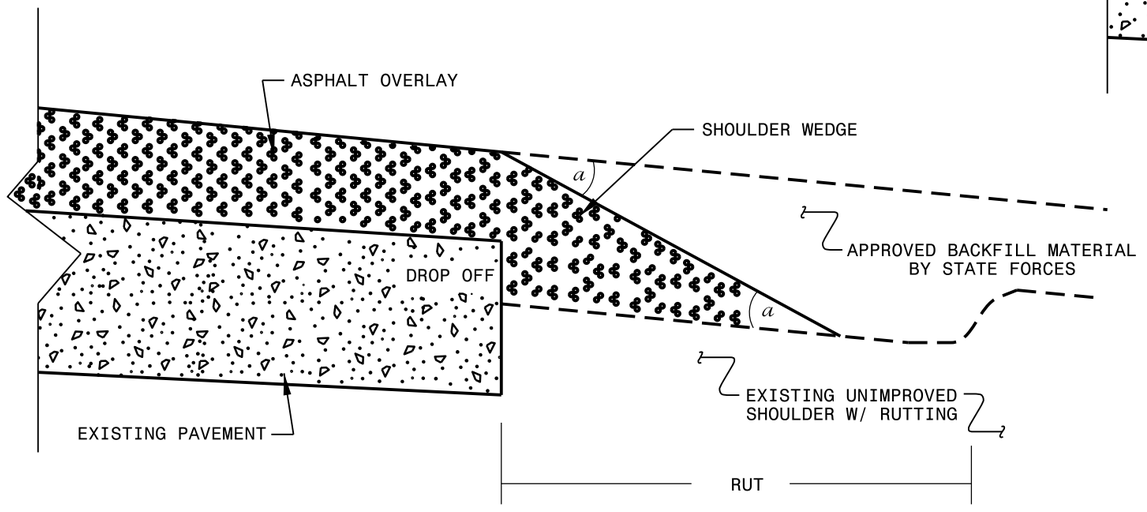
SHOULDER WEDGE DETAIL

(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\shoulderwedgedetail.dgn

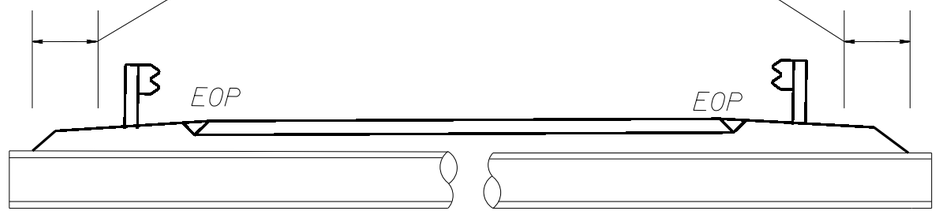
PROJECT REFERENCE NO.	SHEET NO.
DB00488	EC-1

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.

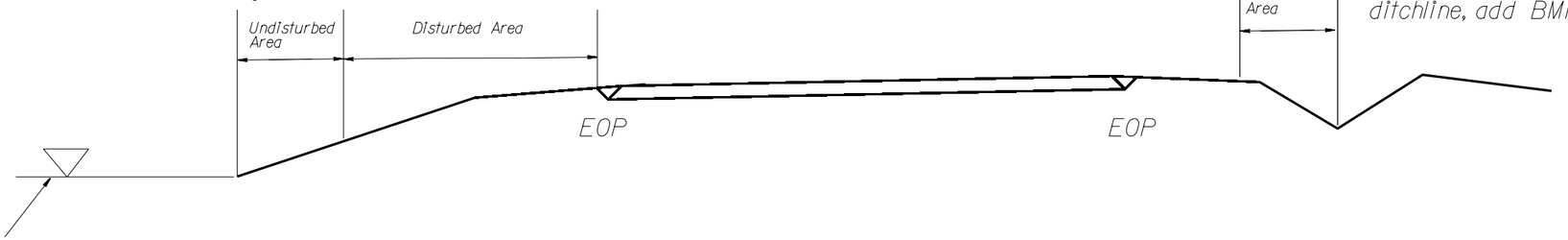
EROSION CONTROL DETAIL

< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

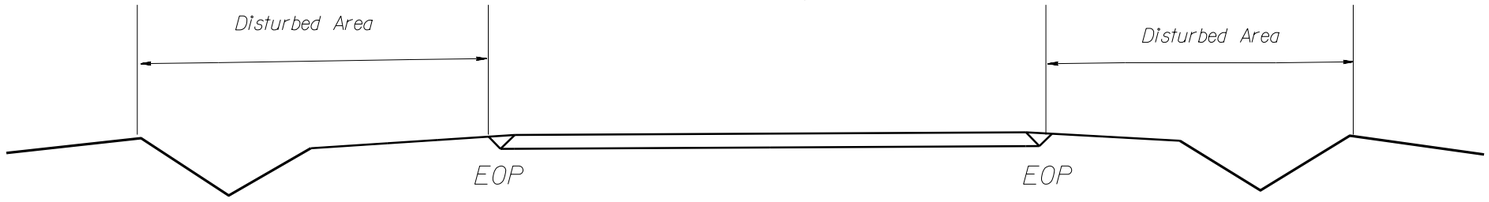
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP



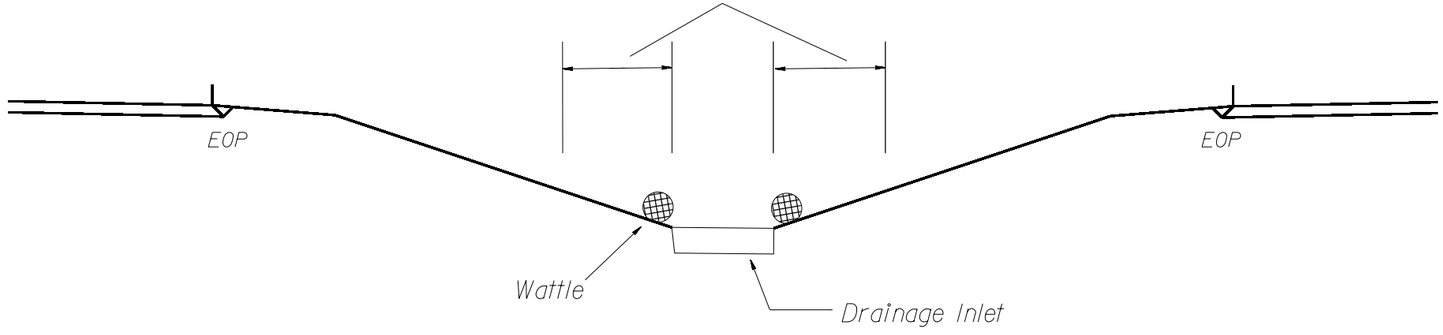
< 5' - 10' Undisturbed buffer from ditchline, add BMP

Jurisdictional Feature

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



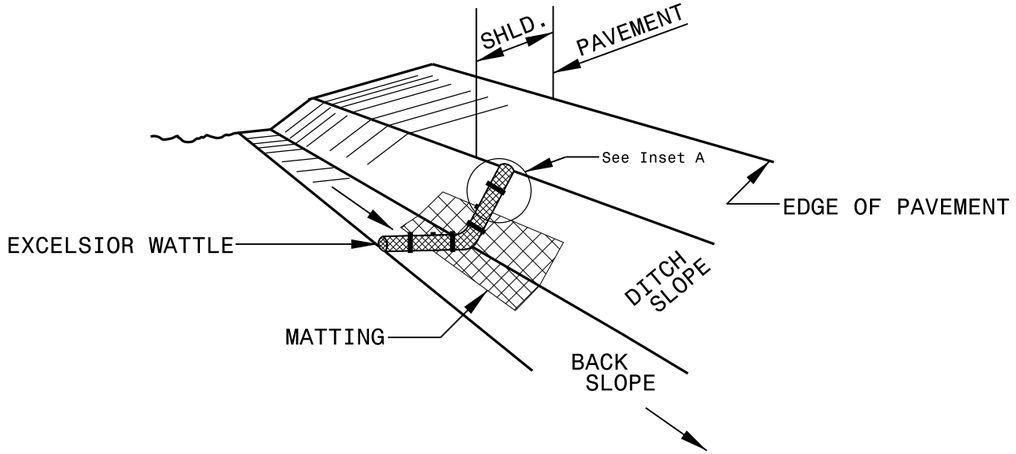
< 5' - 10' Undisturbed buffer from inlet, add wattle



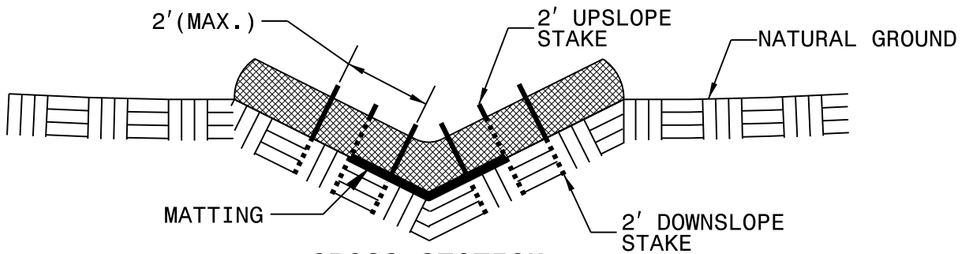
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
DB00488	EC-2

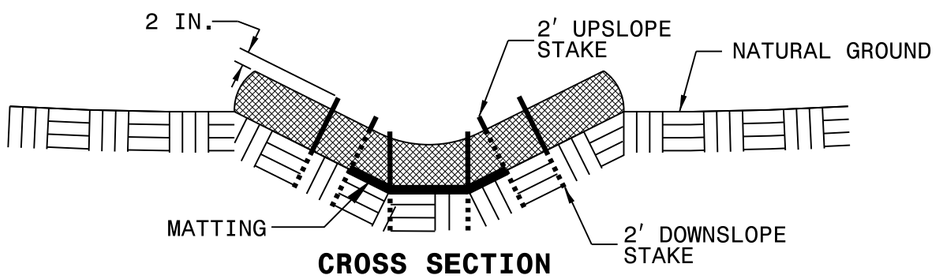
WATTLE DETAIL



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.

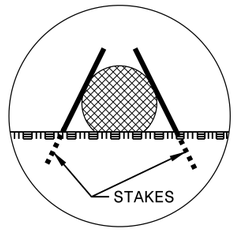
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

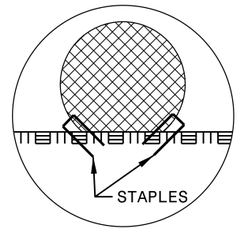
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

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

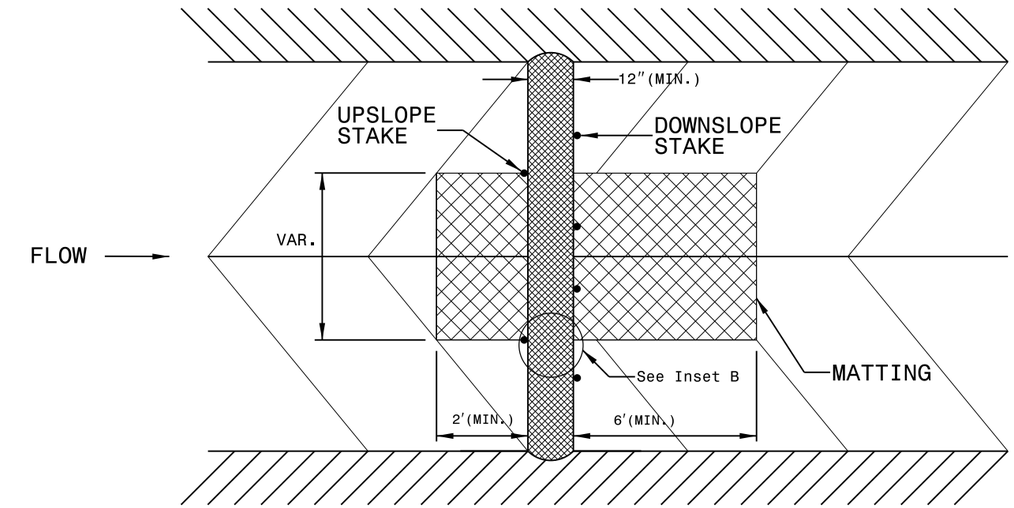
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B

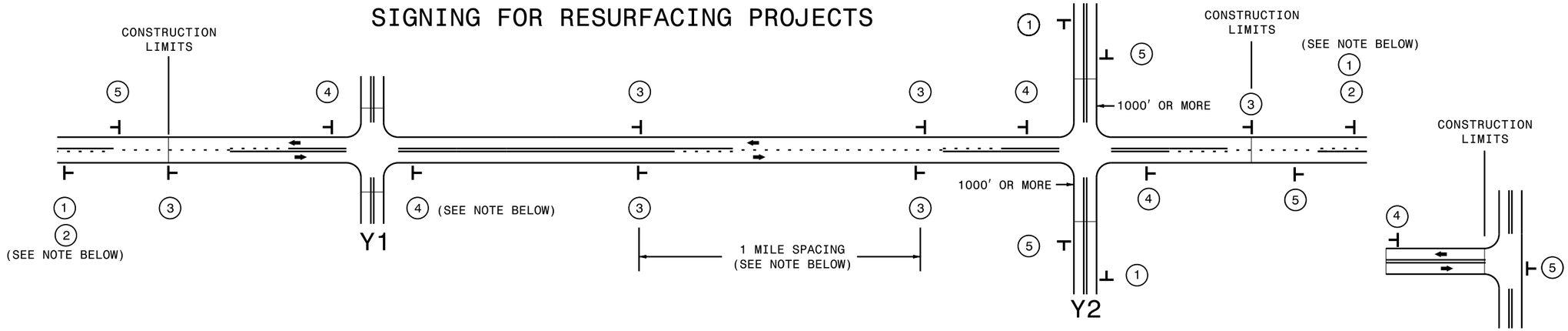


TOP VIEW

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
DB00488	TCP-1

SIGNING FOR RESURFACING PROJECTS



LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 2	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 RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)
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 ½ 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.

-Y- LINE SIGNING

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.

ROAD WORK AHEAD W20-1 48″ X 48″ — PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A 48″ X 48″ — PLACED 250′ IN ADVANCE OF FLAGGER.

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

RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS