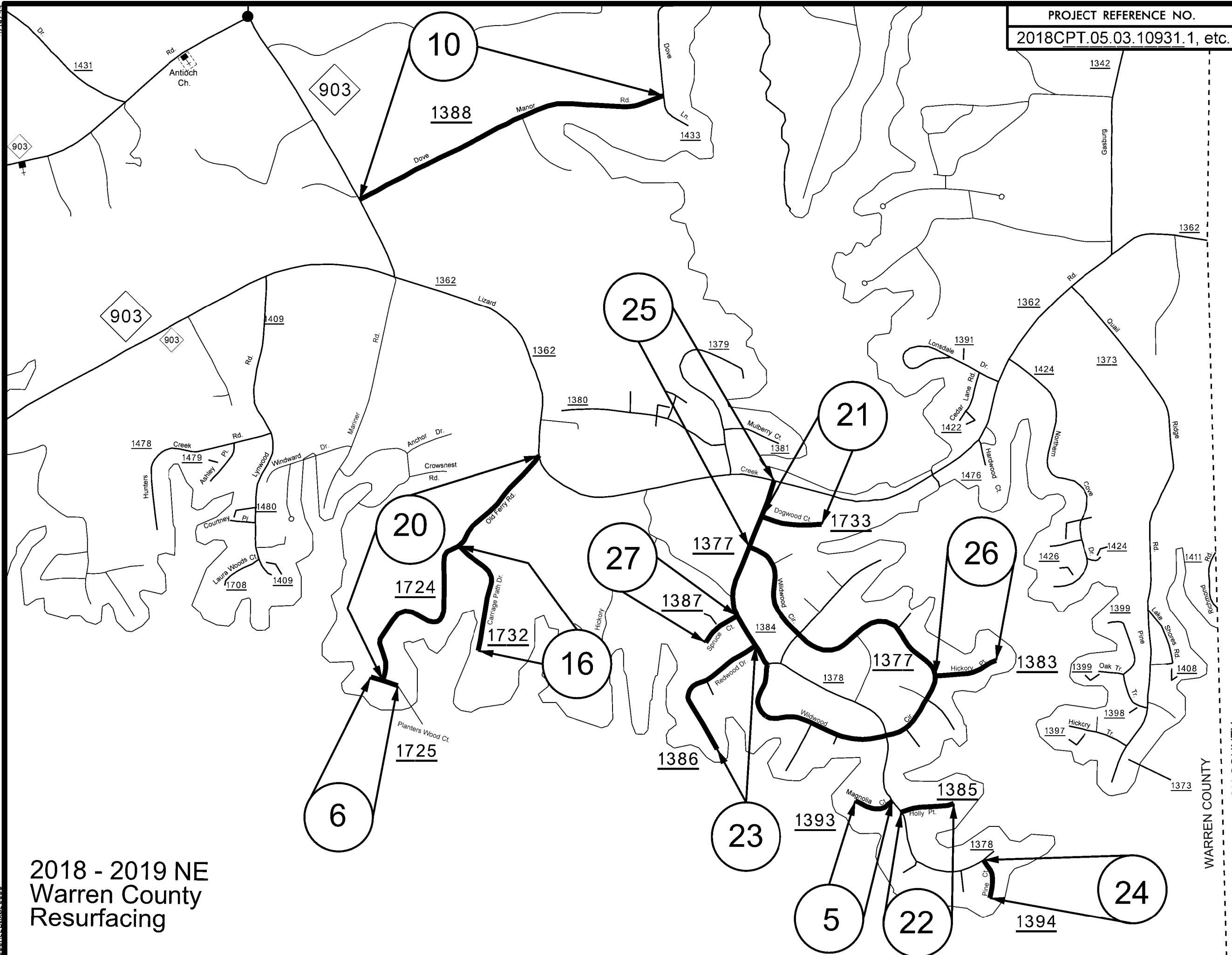


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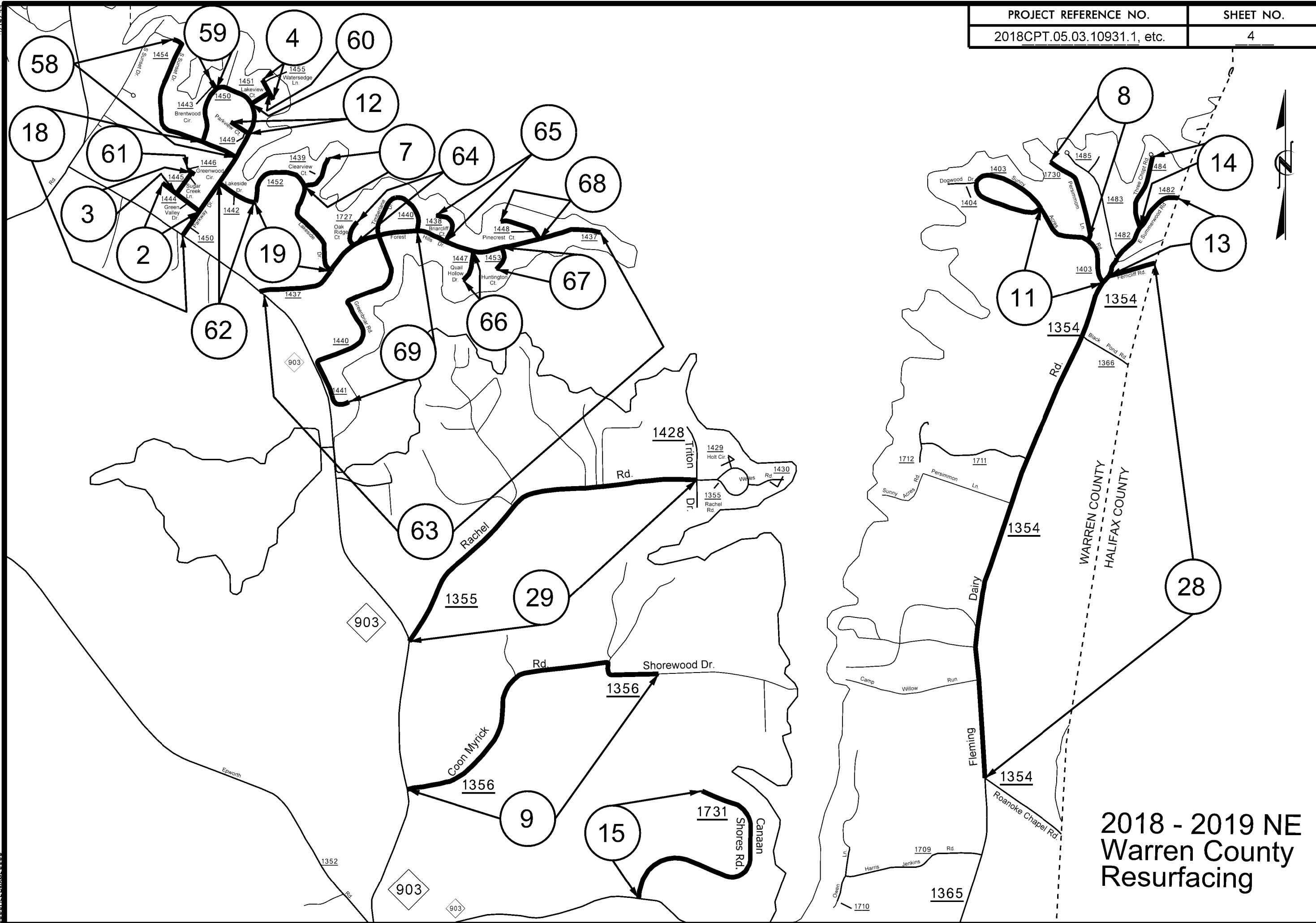


2018 - 2019 NE  
Warren County  
Resurfacing

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SUN  
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WARREN COUNTY  
NORTHAMPTON COUNTY

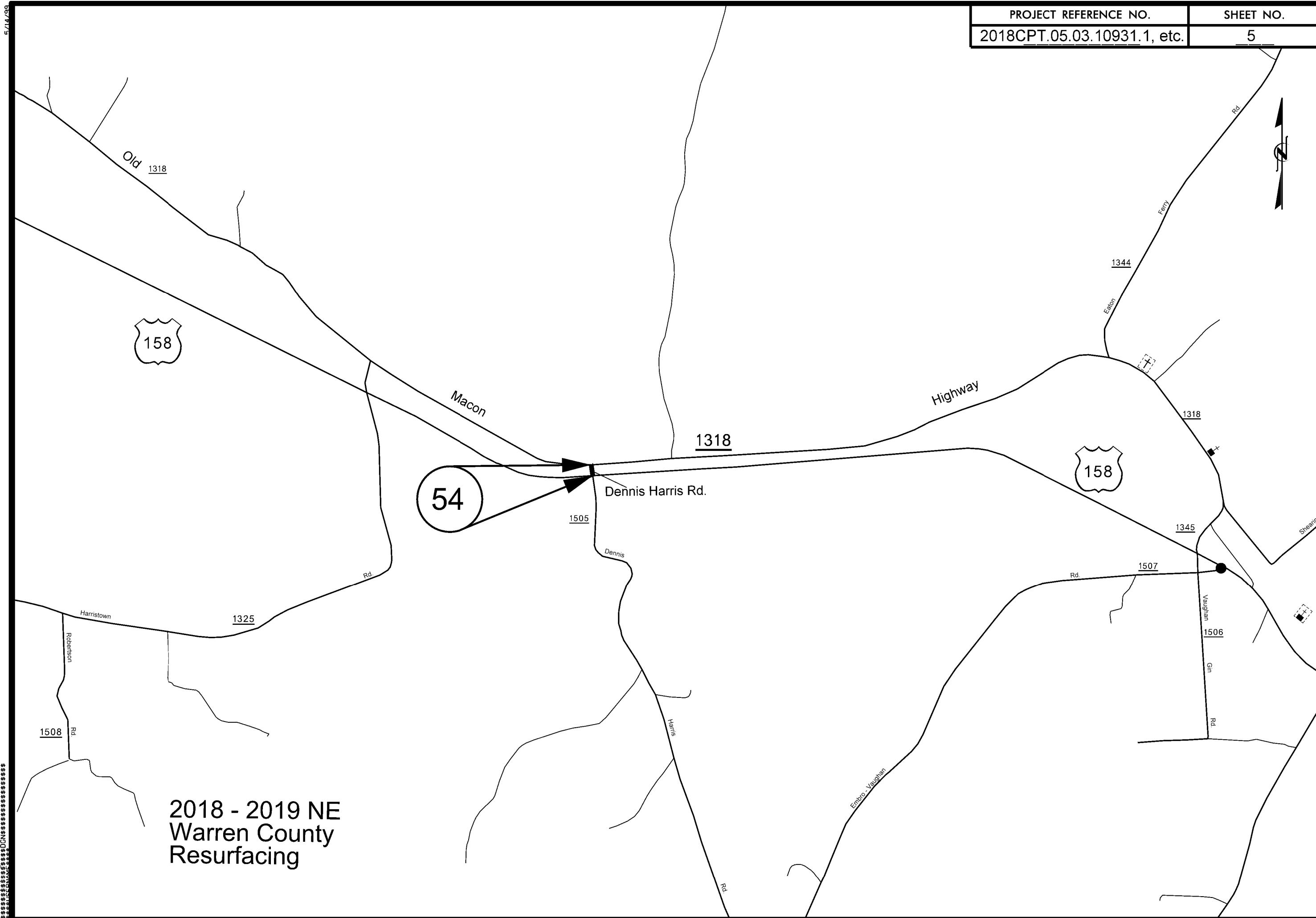




### 2018 - 2019 NE Warren County Resurfacing

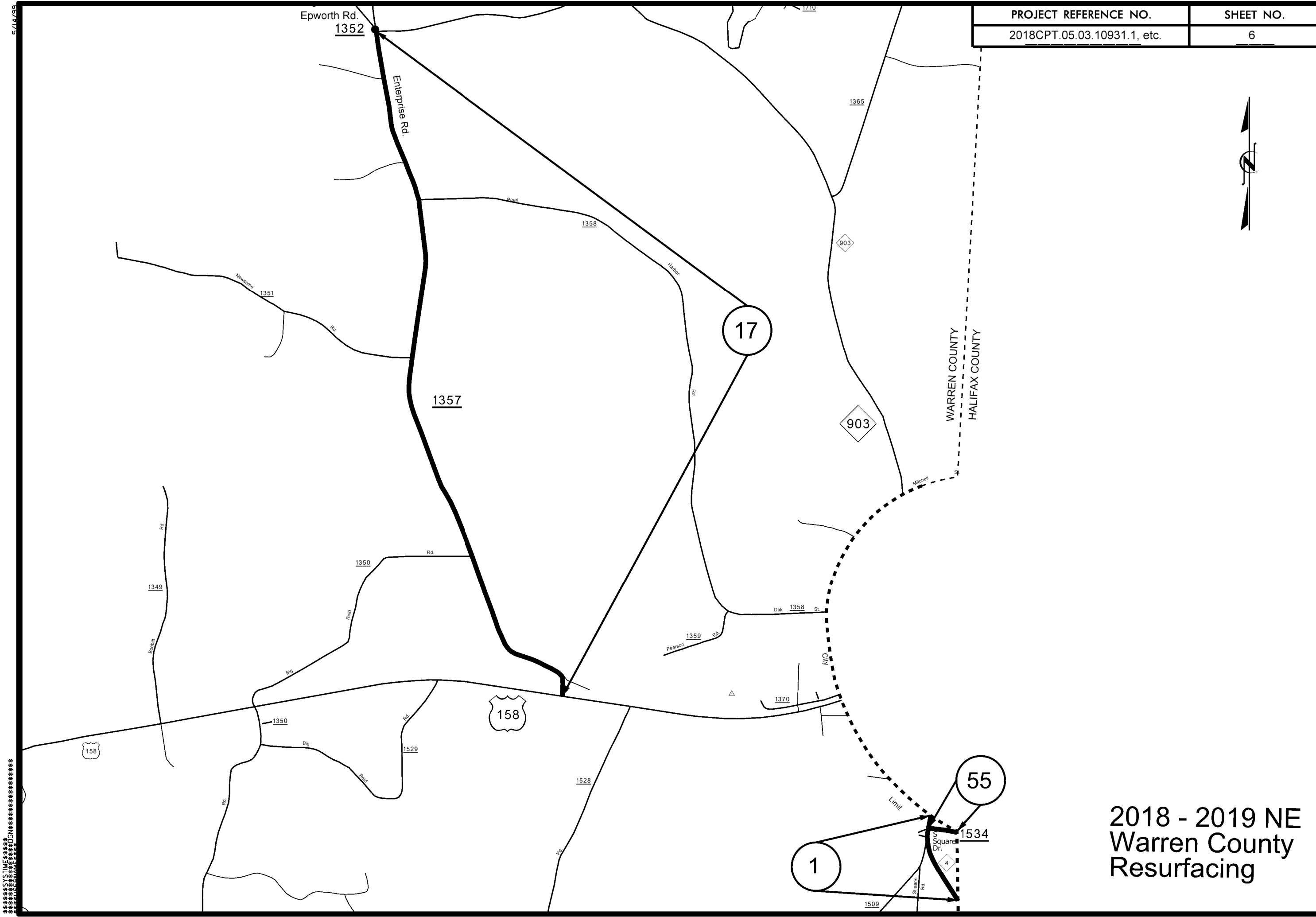
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SUSTAINABLE  
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2018 - 2019 NE  
Warren County  
Resurfacing

5/14/2018



2018 - 2019 NE  
Warren County  
Resurfacing

SECTIVE

PAVEMENT SCHEDULE

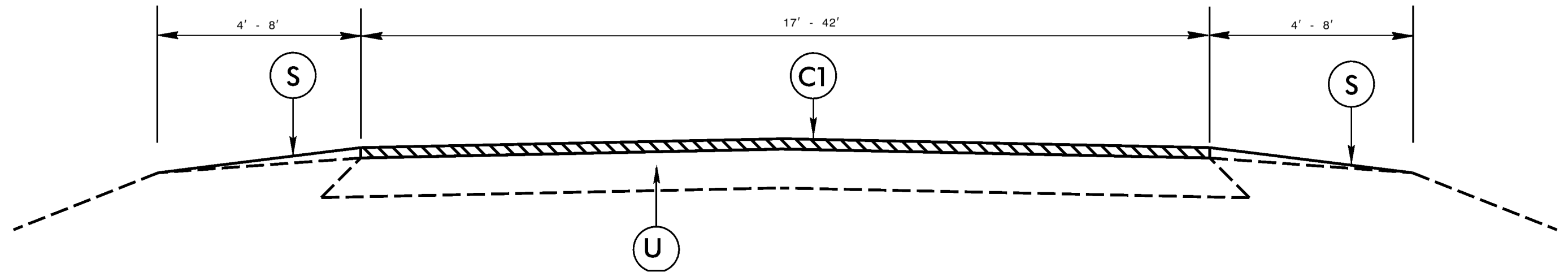
PROJECT REFERENCE NO.

SHEET NO.

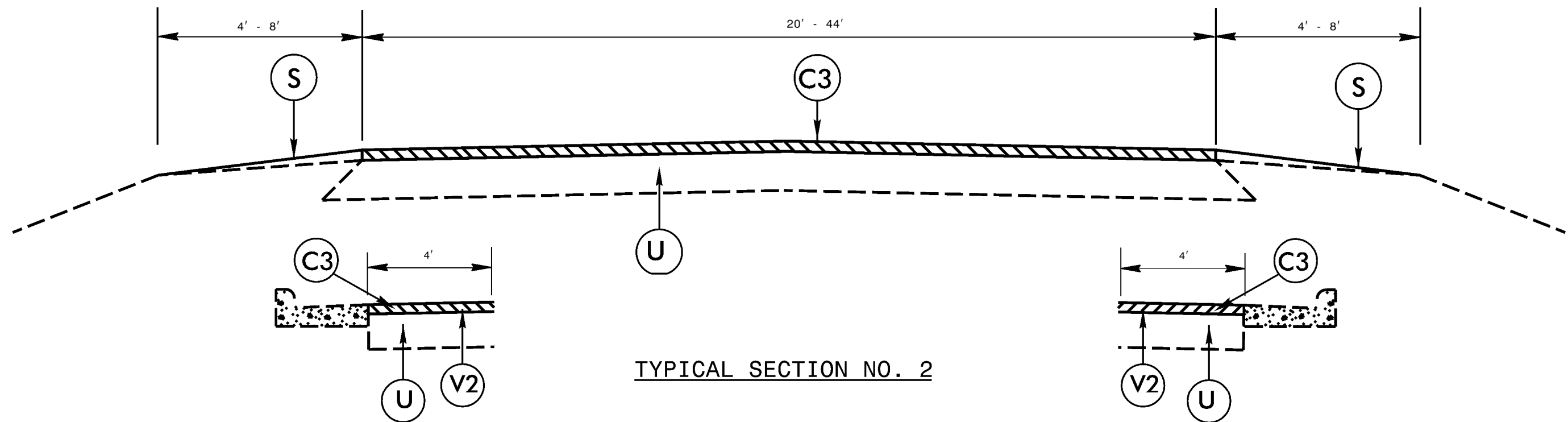
2018CPT.05.03.J0931J, etc.

7

C1	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	S	SHOULDER GRADING ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)
C2	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C3	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	V1	1 1/4" MILLING
C4	2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS	V2	0"-1 1/2" MILLING



TYPICAL SECTION NO. 1

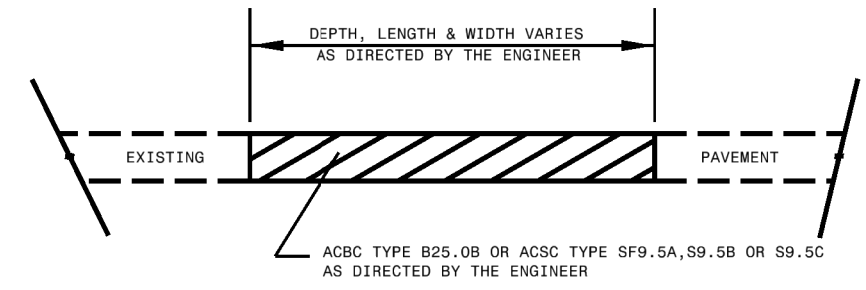


TYPICAL SECTION NO. 2

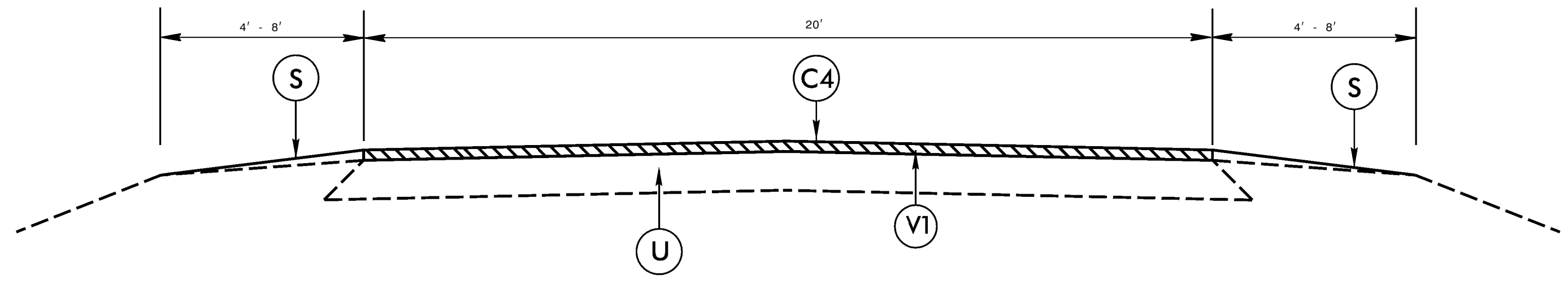


PAVEMENT SCHEDULE

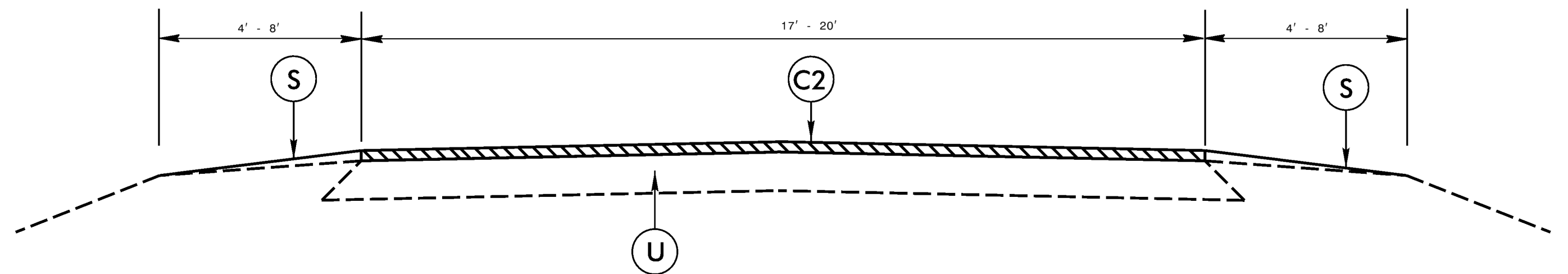
C1	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	S	SHOULDER GRADING ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)
C2	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C3	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	V1	1 1/4" MILLING
C4	2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS	V2	0"-1 1/2" MILLING



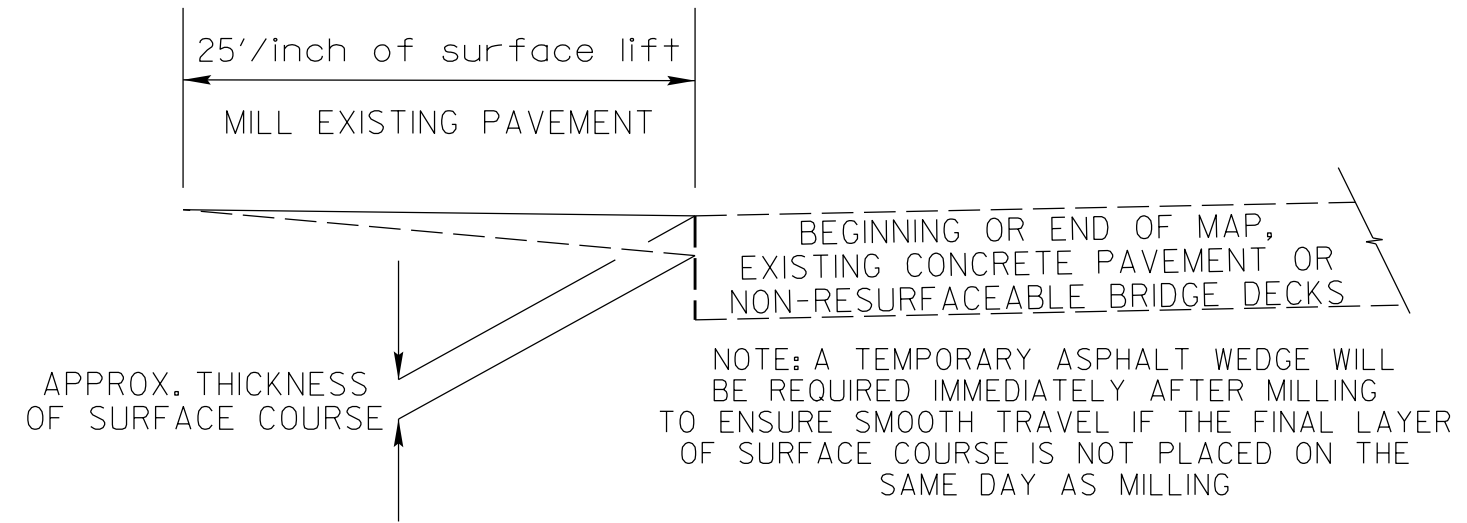
PATCHING EXISTING PAVEMENT  
MILLING (IF REQUIRED BY TYPICAL) TO BE PERFORMED PRIOR TO PATCHING



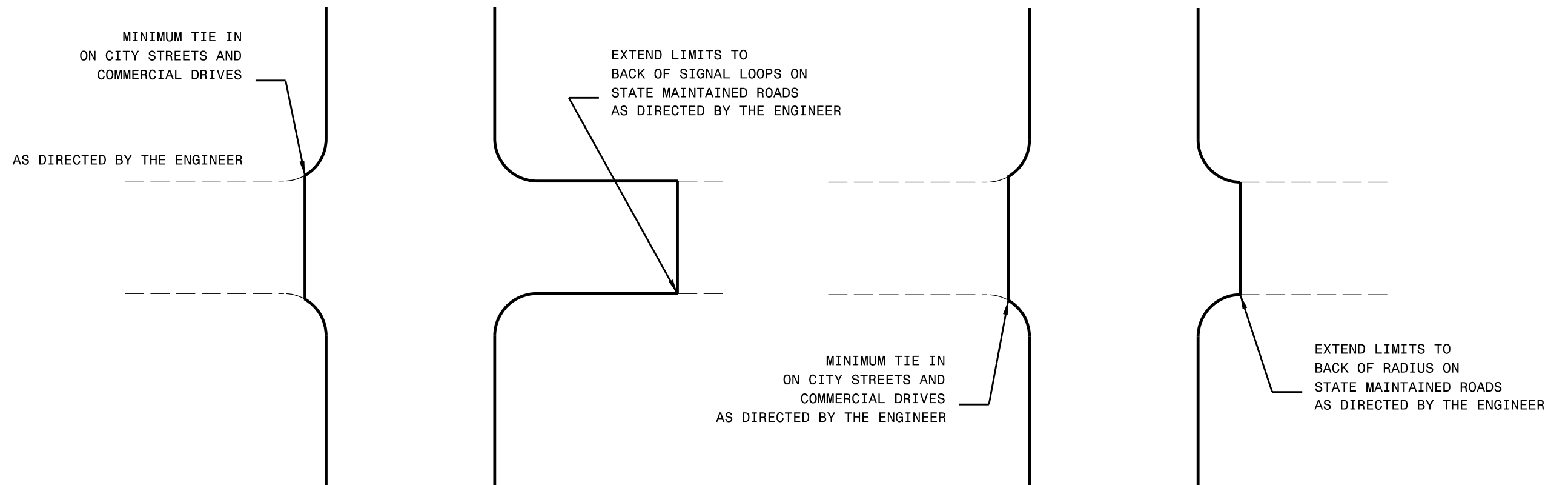
TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 4



### DETAIL OF INCIDENTAL MILLING



DETAIL OF PROJECT LIMITS AT  
SIGNALIZED Y LINES

DETAIL OF PROJECT LIMITS AT  
UNSIGNALIZED Y LINES





PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.05.03.10931.1, etc.		

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	0255000000-E	0264000000-E	1220000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1525000000-E	1575000000-E	1704000000-E	2815000000-N	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E		
											BORROW	AGGREGATE SHOULDER BORROW (ASB)	SHOULDER GRADING	INCIDENTAL STONE BASE	1.25" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, \$9.58	SURFACE COURSE, SF9.5A	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJUST DROP INLET	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING		
											MI	FT	CY	TON	SMI	TONS	SY	SY	SY	TONS	TON	TON	TONS	EA	EA	EA	LF	LF	AC
2018CPT.05.03.20931.1	Warren	59	SR 1443 - BRENTWOOD CIR	SR 1450 - PARKWAY DR TO CUL-DE-SAC	1	2	NO	NO	0.03	18	6		0.06	2					41	3	5				4	20	0.04		
<b>TOTAL FOR MAP NO. 59</b>											<b>0.03</b>	<b>6</b>	<b>0.06</b>	<b>2</b>					<b>41</b>	<b>3</b>	<b>5</b>				<b>4</b>	<b>20</b>	<b>0.04</b>		
2018CPT.05.03.20931.1	Warren	60	SR 1451 - LAKEVIEW CT	SR 1450 - PARKWAY DR TO SR 1455 - WATERSEdge LN	1	2	NO	NO	0.07	18	13		0.13	3					62	4	5				10	30	0.10		
<b>TOTAL FOR MAP NO. 60</b>											<b>0.07</b>	<b>13</b>	<b>0.13</b>	<b>3</b>					<b>62</b>	<b>4</b>	<b>5</b>				<b>10</b>	<b>30</b>	<b>0.10</b>		
2018CPT.05.03.20931.1	Warren	61	SR 1446 - GREENWOOD CIR	END MAINT TO END MAINT	1	2	NO	NO	0.02	36	4		0.04	1					31	2	5								
<b>TOTAL FOR MAP NO. 61</b>											<b>0.02</b>	<b>4</b>	<b>0.04</b>	<b>1</b>					<b>31</b>	<b>2</b>	<b>5</b>								
2018CPT.05.03.20931.1	Warren	62	SR 1442 - LAKESIDE DR	SR 1452 - LAKESIDE DR TO SR 1450 - PARKWAY DR	1	2	NO	NO	0.13	18	26		0.26	7					104	7	15				19	50	0.19		
<b>TOTAL FOR MAP NO. 62</b>											<b>0.13</b>	<b>26</b>	<b>0.26</b>	<b>7</b>					<b>104</b>	<b>7</b>	<b>15</b>				<b>19</b>	<b>50</b>	<b>0.19</b>		
2018CPT.05.03.20931.1	Warren	63	SR 1437 - FOREST HILLS DR	NC 903 TO CUL-DE-SAC	1	2	NO	NO	1.14	18	229		2.29	57					898	60	60				166	420	1.66		
<b>TOTAL FOR MAP NO. 63</b>											<b>1.14</b>	<b>229</b>	<b>2.29</b>	<b>57</b>					<b>898</b>	<b>60</b>	<b>60</b>				<b>166</b>	<b>420</b>	<b>1.66</b>		
2018CPT.05.03.20931.1	Warren	64	SR 1727 - OAK RIDGE CT	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	NO	NO	0.08	20	17		0.17	4					79	5	10				12	40	0.12		
<b>TOTAL FOR MAP NO. 64</b>											<b>0.08</b>	<b>17</b>	<b>0.17</b>	<b>4</b>					<b>79</b>	<b>5</b>	<b>10</b>				<b>12</b>	<b>40</b>	<b>0.12</b>		
2018CPT.05.03.20931.1	Warren	65	SR 1438 - BRIARCLIFF CT	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	NO	NO	0.13	20	25		0.25	6					124	8	10				18	50	0.18		
<b>TOTAL FOR MAP NO. 65</b>											<b>0.13</b>	<b>25</b>	<b>0.25</b>	<b>6</b>					<b>124</b>	<b>8</b>	<b>10</b>				<b>18</b>	<b>50</b>	<b>0.18</b>		
2018CPT.05.03.20931.1	Warren	66	SR 1447 - QUAIL HOLLOW DR	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	NO	NO	0.10	20	20		0.20	5					99	7	10				15	40	0.15		
<b>TOTAL FOR MAP NO. 66</b>											<b>0.10</b>	<b>20</b>	<b>0.20</b>	<b>5</b>					<b>99</b>	<b>7</b>	<b>10</b>				<b>15</b>	<b>40</b>	<b>0.15</b>		
2018CPT.05.03.20931.1	Warren	67	SR 1453 - HUNTINGTON CT	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	NO	NO	0.09	20	17		0.17	4					81	5	10				13	40	0.13		
<b>TOTAL FOR MAP NO. 67</b>											<b>0.09</b>	<b>17</b>	<b>0.17</b>	<b>4</b>					<b>81</b>	<b>5</b>	<b>10</b>				<b>13</b>	<b>40</b>	<b>0.13</b>		
2018CPT.05.03.20931.1	Warren	68	SR 1448 - PINECREST CT	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	NO	NO	0.15	18	29		0.29	7					131	9	10				21	60	0.21		
<b>TOTAL FOR MAP NO. 68</b>											<b>0.15</b>	<b>29</b>	<b>0.29</b>	<b>7</b>					<b>131</b>	<b>9</b>	<b>10</b>				<b>21</b>	<b>60</b>	<b>0.21</b>		
2018CPT.05.03.20931.1	Warren	69	SR 1440 - TIMBERLANE DR/GREENBRIAR RD	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	NO	NO	1.02	20	204		2.04	51					887	59	30				148	380	1.48		
<b>TOTAL FOR MAP NO. 69</b>											<b>1.02</b>	<b>204</b>	<b>2.04</b>	<b>51</b>					<b>887</b>	<b>59</b>	<b>30</b>				<b>148</b>	<b>380</b>	<b>1.48</b>		
<b>TOTAL FOR PROJ NO. 2018CPT.05.03.20931.1</b>											<b>28.76</b>	<b>4,116</b>	<b>1,540</b>	<b>56.71</b>	<b>1,173</b>	<b>1,173</b>	<b>306</b>	<b>7,654</b>	<b>588</b>	<b>27,440</b>	<b>1,870</b>	<b>1,246</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3,004</b>	<b>7,840</b>	<b>30.01</b>	
<b>GRAND TOTAL</b>											<b>29.09</b>	<b>4,129</b>	<b>1,578</b>	<b>57.23</b>	<b>1,176</b>	<b>1,173</b>	<b>306</b>	<b>7,654</b>	<b>588</b>	<b>27,440</b>	<b>1,870</b>	<b>1,246</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3,004</b>	<b>7,840</b>	<b>30.01</b>	

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.05.03.10931.1, etc.		

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		WIDTH	4413000000-E	4457000000-N	4685000000-E	4686000000-E	4686000000-E
							MI	FT		WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO
										SF	LS	LF	LF	LF
2018CPT.05.03.10931.1	Warren	1	NC 4	HALIFAX CO. TO HALIFAX CO.	2	2	0.33	26		37	0.02	2,850	55	3,450
<b>TOTAL FOR MAP NO. 1</b>										<b>37</b>	<b>0.02</b>	<b>2,850</b>	<b>55</b>	<b>3,450</b>
<b>TOTAL FOR PROJ NO. 2018CPT.05.03.10931.1</b>										<b>37</b>	<b>0.02</b>	<b>2,850</b>	<b>55</b>	<b>3,450</b>
2018CPT.05.03.20931.1	Warren	2	SR 1444 - GREENVALLEY DR	SR 1450 - PARKWAY DR TO .04 MI. WEST OF SR 1445 - SUGAR CREEK LN	1	2	0.15	18		17	0.01			
<b>TOTAL FOR MAP NO. 2</b>										<b>17</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	3	SR 1445 - SUGAR CREEK LN	SR 1444 - GREEN VALLEY DR TO SR 1446 - GREENWOOD CIR	1	2	0.08	18		9	0.01			
<b>TOTAL FOR MAP NO. 3</b>										<b>9</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	4	SR 1455 - WATSEEDGE LN	CUL-DE-SAC TO CUL-DE-SAC	1	2	0.08	42		9	0.01			
<b>TOTAL FOR MAP NO. 4</b>										<b>9</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	5	SR 1393 - MAGNOLIA CT	SR 1378 - CLUB DR TO CUL-DE-SAC	4	2	0.10	18		12	0.01			
<b>TOTAL FOR MAP NO. 5</b>										<b>12</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	6	SR 1725 - PLANTERS WD CT	CUL -DE-SAC TO CUL-DE-SAC	1	2	0.06	21		7	0.01			
<b>TOTAL FOR MAP NO. 6</b>										<b>7</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	7	SR 1439 - CLEARVIEW CT	SR 1452 - LAKESIDE DR TO CUL-DE-SAC	1	2	0.13	18		15	0.01			
<b>TOTAL FOR MAP NO. 7</b>										<b>15</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	8	SR 1730 - PERSIMMON LN	SR 1403 - SUNNY ACRES DR TO CUL-DE-SAC	1	2	0.30	18		34	0.01			
<b>TOTAL FOR MAP NO. 8</b>										<b>34</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	9	SR 1356 - COON MYRICK RD/SHOREWOOD DR	NC 903 TO END MAINT	1	2	1.02	21		115	0.01			
<b>TOTAL FOR MAP NO. 9</b>										<b>115</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	10	SR 1388 - DOVE MANOR RD	NC 903 TO SR 1433 - DOVE LN	1	2	0.82	21		92	0.01	8,660		8,660
<b>TOTAL FOR MAP NO. 10</b>										<b>92</b>	<b>0.01</b>	<b>8,660</b>		<b>8,660</b>
2018CPT.05.03.20931.1	Warren	11	SR 1403 - SUNNY ACRES DR	SR 1354 - FLEMING DAIRY RD TO SR 1403 -SUNNY ACRES RD	1	2	0.91	18		102	0.01			
<b>TOTAL FOR MAP NO. 11</b>										<b>102</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	12	SR 1449 - PARKVIEW CT	SR 1450 - PARKWAY DR TO CUL-DE-SAC	1	2	0.06	18		7	0.01			
<b>TOTAL FOR MAP NO. 12</b>										<b>7</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	13	SR 1482 - E SUMMERWOOD RD	SR 1354 - FLEMING DAIRY RD TO HALIFAX CO	1	2	0.35	18		40	0.01			
<b>TOTAL FOR MAP NO. 13</b>										<b>40</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	14	SR 1484 - THREE CHOPT RD	SR 1482 - E SUMMERWOOD RD TO CUL-DE-SAC	1	2	0.23	18		26	0.01			
<b>TOTAL FOR MAP NO. 14</b>										<b>26</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	15	SR 1731 - CANAAN SHORES RD	NC 903 TO CUL-DE-SAC	1	2	0.76	18		86	0.01			
<b>TOTAL FOR MAP NO. 15</b>										<b>86</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	16	SR 1732 - CARRIAGE PATH DR	SR 1724 - OLD FERRY RD TO CUL-DE-SAC	1	2	0.33	19		34	0.01			
<b>TOTAL FOR MAP NO. 16</b>										<b>34</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	17	SR 1357 - ENTERPRISE RD	SR 1352 - EPWORTH RD TO US 158	1	2	2.54	25		285	0.08	27,330	55	23,635
<b>TOTAL FOR MAP NO. 17</b>										<b>285</b>	<b>0.08</b>	<b>27,330</b>	<b>55</b>	<b>23,635</b>
2018CPT.05.03.20931.1	Warren	18	SR 1450 - PARKWAY DR	NC 903 TO SR 1454 - S SUNSET DR	1	2	0.78	18		88	0.01			
<b>TOTAL FOR MAP NO. 18</b>										<b>88</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	19	SR 1452 - LAKESIDE DR	SR 1437 - FORESTHILL DR TO SR 1442 LAKESIDE DR	1	2	0.55	19		62	0.01			
<b>TOTAL FOR MAP NO. 19</b>										<b>62</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	20	SR 1724 - OLD FERRY RD	SR 1362 - LIZARD CREEK RD TO SR 1725 - PLANTERS WD CT	1	2	0.81	20		91	0.01			
<b>TOTAL FOR MAP NO. 20</b>										<b>91</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	21	SR 1733 - DOGWOOD CT	SR 1377 - WILDWOOD CIR TO CUL-DE-SAC	4	2	0.15	18		17	0.01			
<b>TOTAL FOR MAP NO. 21</b>										<b>17</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	22	SR 1385 - HOLLY POINT	SR 1378 - CLUB DR TO CUL-DE-SAC	4	2	0.14	17		16	0.01			
<b>TOTAL FOR MAP NO. 22</b>										<b>16</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	23	SR 1386 - REDWOOD DR	SR 1377 - WILDWOOD CIR TO CUL-DE-SAC	4	2	0.36	17		41	0.02			
<b>TOTAL FOR MAP NO. 23</b>										<b>41</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	24	SR 1394 - PINE CT	SR 1378 - CLUB DR TO CUL-DE-SAC	4	2	0.10	17		12	0.01			
<b>TOTAL FOR MAP NO. 24</b>										<b>12</b>	<b>0.01</b>			

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.05.03.10931.1, etc.		

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		WIDTH	4413000000-E	4457000000-N	4685000000-E	4686000000-E	4686000000-E
							MI	FT		WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO
							SF	LS	LF	LF	LF			
2018CPT.05.03.20931.1	Warren	25	SR 1377 - WILDWOOD CIR	SR 1362 - LIZARD CREEK RD TO SR 1377 - WILDWOOD CIR	4	2	1.87	18		210	0.01	19,748	215	19,748
<b>TOTAL FOR MAP NO. 25</b>							<b>1.87</b>			<b>210</b>	<b>0.01</b>	<b>19,748</b>	<b>215</b>	<b>19,748</b>
2018CPT.05.03.20931.1	Warren	26	SR 1383 - HICKORY PT	SR 1377 - WILDWOOD CIR TO CUL-DE-SAC	4	2	0.16	20		18	0.01			
<b>TOTAL FOR MAP NO. 26</b>							<b>0.16</b>			<b>18</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	27	SR 1387 - SPRUCE CT	SR 1377 - WILDWOOD CIR TO CUL-DE-SAC	4	2	0.11	18		13	0.01			
<b>TOTAL FOR MAP NO. 27</b>							<b>0.11</b>			<b>13</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	28	SR 1354 - FLEMING DAIRY RD/FERNCLIFF RD	HALIFAX CO TO SR 1365 - FLEMING DAIRY RD	1	2	1.80	20		201	0.06	19,314	116	8,754
<b>TOTAL FOR MAP NO. 28</b>							<b>1.80</b>			<b>201</b>	<b>0.06</b>	<b>19,314</b>	<b>116</b>	<b>8,754</b>
2018CPT.05.03.20931.1	Warren	29	SR 1355 - RACHEL RD	NC 903 TO SR 1428 - TRITON DR	1	2	1.50	22		126	0.05	12,083	49	11,859
<b>TOTAL FOR MAP NO. 29</b>							<b>1.50</b>			<b>126</b>	<b>0.05</b>	<b>12,083</b>	<b>49</b>	<b>11,859</b>
2018CPT.05.03.20931.1	Warren	30	SR 1361 - WARREN COUNTY ACRES RD	SR 1390 - LAKESHORE DR TO NC 903	1	2	0.85	20		95	0.03	9,146	53	5,386
<b>TOTAL FOR MAP NO. 30</b>							<b>0.85</b>			<b>95</b>	<b>0.03</b>	<b>9,146</b>	<b>53</b>	<b>5,386</b>
2018CPT.05.03.20931.1	Warren	31	SR 1389 - PASTURE GATE RD	PVT CHG TO CUL-DE-SAC	4	2	1.05	20		118	0.02			
<b>TOTAL FOR MAP NO. 31</b>							<b>1.05</b>			<b>118</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	32	SR 1396 - FISHERMAN'S LN	SR 1336 - HUBQUARTER RD TO SR 1410 - HOLIDAY DR	1	2	0.51	20		57	0.02			
<b>TOTAL FOR MAP NO. 32</b>							<b>0.51</b>			<b>57</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	33	SR 1410 - HOLIDAY DR	CUL-DE-SAC TO CUL-DE-SAC	4	2	1.99	20		223	0.02			
<b>TOTAL FOR MAP NO. 33</b>							<b>1.99</b>			<b>223</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	34	SR 1412 - SPORTSMAN DR	SR 1410 - HOLIDAY DR TO CUL-DE-SAC	4	2	0.28	20		31	0.01			
<b>TOTAL FOR MAP NO. 34</b>							<b>0.28</b>			<b>31</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	35	SR 1413 - COOKOUT TER	SR 1410 - HOLIDAY DR TO SR 1410 - HOLIDAY DR	4	2	0.45	20		50	0.02			
<b>TOTAL FOR MAP NO. 35</b>							<b>0.45</b>			<b>50</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	36	SR 1414 - RECREATION LN	SR 1410 - HOLIDAY DR TO CUL-DE-SAC	4	2	0.47	20		53	0.02			
<b>TOTAL FOR MAP NO. 36</b>							<b>0.47</b>			<b>53</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	37	SR 1415 - SKIERS POINT	SR 1414 - RECREATION LN TO CUL-DE-SAC	4	2	0.03	20		4	0.01			
<b>TOTAL FOR MAP NO. 37</b>							<b>0.03</b>			<b>4</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	38	SR 1416 - SAILBOAT LN	SR 1410 - HOLIDAY DR TO CUL-DE-SAC	4	2	0.25	20		28	0.01			
<b>TOTAL FOR MAP NO. 38</b>							<b>0.25</b>			<b>28</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	39	SR 1417 - PLEASURE DR	SR 1410 - HOLIDAY DR TO CUL-DE-SAC	1	2	0.23	20		26	0.01			
<b>TOTAL FOR MAP NO. 39</b>							<b>0.23</b>			<b>26</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	40	SR 1418 - THOROUGHFARE DR	SR 1413 - COOKOUT TERRACE TO END MAINT	4	2	0.42	20		47	0.02			
<b>TOTAL FOR MAP NO. 40</b>							<b>0.42</b>			<b>47</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	41	SR 1419 - YACHTSMAN DR	SR 1410 - HOLIDAY DR TO CUL-DE-SAC	4	2	0.21	20		24	0.01			
<b>TOTAL FOR MAP NO. 41</b>							<b>0.21</b>			<b>24</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	42	SR 1423 - RIVER BEND RD	SR 1306 - ROBINSON FERRY RD TO SR 1481 - BELL ST	4	2	0.32	20		36	0.01			
<b>TOTAL FOR MAP NO. 42</b>							<b>0.32</b>			<b>36</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	43	SR 1427 - LOOKOUT PT	SR 1412 - SPORTSMAN DR TO CUL-DE-SAC	4	2	0.12	20		14	0.01			
<b>TOTAL FOR MAP NO. 43</b>							<b>0.12</b>			<b>14</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	44	SR 1460 - BUNKER CT	SR 1410 - HOLIDAY DR TO CUL-DE-SAC	4	2	0.29	20		32	0.01			
<b>TOTAL FOR MAP NO. 44</b>							<b>0.29</b>			<b>32</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	45	SR 1461 - MARINER CT	SR 1410 - HOLIDAY DR TO CUL-DE-SAC	4	2	0.09	20		10	0.01			
<b>TOTAL FOR MAP NO. 45</b>							<b>0.09</b>			<b>10</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	46	SR 1462 - SUNSHINE CT	SR 1418 - THOROUGHFARE DR TO CUL-DE-SAC	4	2	0.05	20		6	0.01			
<b>TOTAL FOR MAP NO. 46</b>							<b>0.05</b>			<b>6</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	47	SR 1463 - VACATION CT	SR 1412 - SPORTSMAN DR TO CUL-DE-SAC	4	2	0.06	20		6	0.01			
<b>TOTAL FOR MAP NO. 47</b>							<b>0.06</b>			<b>6</b>	<b>0.01</b>			

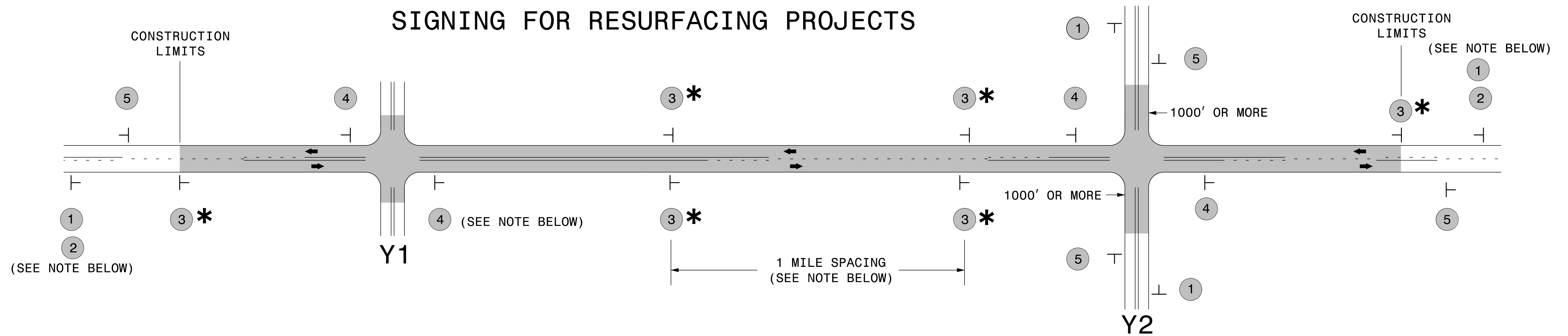
PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.05.03.10931.1, etc.		

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		WIDTH	4413000000-E	4457000000-N	4685000000-E	4686000000-E	4686000000-E
							MI	FT		WORK ZONE ADVANCE/ GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO
										SF	LS	LF	LF	LF
2018CPT.05.03.20931.1	Warren	48	SR 1464 - POPLAR DR	SR 1336 - HUBQUARTER RD TO SR 1465 - FAIRWAY DR	1	2	0.43	19		48	0.02			
<b>TOTAL FOR MAP NO. 48</b>										<b>48</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	49	SR 1465 - FAIRWAY DR	SR 1336 - HUBQUARTER RD TO SR 1464 - POPLAR DR	1	2	0.05	20		6	0.01			
<b>TOTAL FOR MAP NO. 49</b>										<b>6</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	50	SR 1466 - CEDAR FALLS LN	SR 1464 - POPLAR DR TO CUL-DE-SAC	4	2	0.16	20		18	0.01			
<b>TOTAL FOR MAP NO. 50</b>										<b>18</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	51	SR 1489 - ROANOKE CIR	SR 1389 - PASTURE GATE RD TO CUL-DE-SAC	4	2	0.07	20		7	0.01			
<b>TOTAL FOR MAP NO. 51</b>										<b>7</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	52	SR 1490 - ROCKY BRANCH DR	SR 1389 - PASTURE GATE RD TO CUL-DE-SAC	4	2	0.15	20		16	0.01			
<b>TOTAL FOR MAP NO. 52</b>										<b>16</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	53	SR 1492 - PALM LN	SR 1464 - POPLAR DR TO CUL-DE-SAC	4	2	0.13	20		14	0.01			
<b>TOTAL FOR MAP NO. 53</b>										<b>14</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	54	SR 1505 - DENNIS HARRIS RD	US 158 TO SR 1318 - OLD MACON HWY	2	2	0.03	20		3	0.01	323		150
<b>TOTAL FOR MAP NO. 54</b>										<b>3</b>	<b>0.01</b>	<b>323</b>		<b>150</b>
2018CPT.05.03.20931.1	Warren	55	SR 1534 - S SQUARE DR	NC 4 TO HALIFAX CO	3	2	0.10	20		11	0.01	1,076		974
<b>TOTAL FOR MAP NO. 55</b>										<b>11</b>	<b>0.01</b>	<b>1,076</b>		<b>974</b>
2018CPT.05.03.20931.1	Warren	56	SR 1726 - GASTON OAKS LN	SR 1464 - POPLAR DR TO CUL-DE-SAC	4	2	0.08	20		9	0.01			
<b>TOTAL FOR MAP NO. 56</b>										<b>9</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	57	SR 1729 - PARADISE PT	SR 1419 - YACHTSMAN DR TO CUL-DE-SAC	4	2	0.08	20		4	0.01			
<b>TOTAL FOR MAP NO. 57</b>										<b>4</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	58	SR 1454 - S SUNSET DR	SR 1450 - PARKWAY DR TO END MAINT	1	2	0.60	18		67	0.02			
<b>TOTAL FOR MAP NO. 58</b>										<b>67</b>	<b>0.02</b>			
2018CPT.05.03.20931.1	Warren	59	SR 1443 - BRENTWOOD CIR	SR 1450 - PARKWAY DR TO CUL-DE-SAC	1	2	0.03	18		3	0.01			
<b>TOTAL FOR MAP NO. 59</b>										<b>3</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	60	SR 1451 - LAKEVIEW CT	SR 1450 - PARKWAY DR TO SR 1455 - WATERSEDGE LN	1	2	0.07	18		8	0.01			
<b>TOTAL FOR MAP NO. 60</b>										<b>8</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	61	SR 1446 - GREENWOOD CIR	END MAINT TO END MAINT	1	2	0.02	36		2	0.01			
<b>TOTAL FOR MAP NO. 61</b>										<b>2</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	62	SR 1442 - LAKESIDE DR	SR 1452 - LAKESIDE DR TO SR 1450 - PARKWAY DR	1	2	0.13	18		15	0.01			
<b>TOTAL FOR MAP NO. 62</b>										<b>15</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	63	SR 1437 - FOREST HILLS DR	NC 903 TO CUL-DE-SAC	1	2	1.14	18		128	0.03			
<b>TOTAL FOR MAP NO. 63</b>										<b>128</b>	<b>0.03</b>			
2018CPT.05.03.20931.1	Warren	64	SR 1727 - OAK RIDGE CT	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	0.08	20		9	0.01			
<b>TOTAL FOR MAP NO. 64</b>										<b>9</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	65	SR 1438 - BRIARCLIFF CT	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	0.13	20		14	0.01			
<b>TOTAL FOR MAP NO. 65</b>										<b>14</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	66	SR 1447 - QUAIL HOLLOW DR	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	0.10	20		11	0.01			
<b>TOTAL FOR MAP NO. 66</b>										<b>11</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	67	SR 1453 - HUNTINGTON CT	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	0.09	20		10	0.01			
<b>TOTAL FOR MAP NO. 67</b>										<b>10</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	68	SR 1448 - PINECREST CT	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	0.15	18		16	0.01			
<b>TOTAL FOR MAP NO. 68</b>										<b>16</b>	<b>0.01</b>			
2018CPT.05.03.20931.1	Warren	69	SR 1440 - TIMBERLANE DR/GREENBRIAR RD	SR 1437 - FOREST HILLS DR TO CUL-DE-SAC	1	2	1.02	20		114	0.02			
<b>TOTAL FOR MAP NO. 69</b>										<b>114</b>	<b>0.02</b>			
<b>TOTAL FOR PROJ NO. 2018CPT.05.03.20931.1</b>							<b>28.76</b>			<b>3,178</b>	<b>0.98</b>	<b>97,680</b>	<b>488</b>	<b>79,166</b>
<b>GRAND TOTAL</b>							<b>29.09</b>			<b>3,215</b>	<b>1.00</b>	<b>100,530</b>	<b>543</b>	<b>82,616</b>



## SIGNING FOR RESURFACING PROJECTS



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

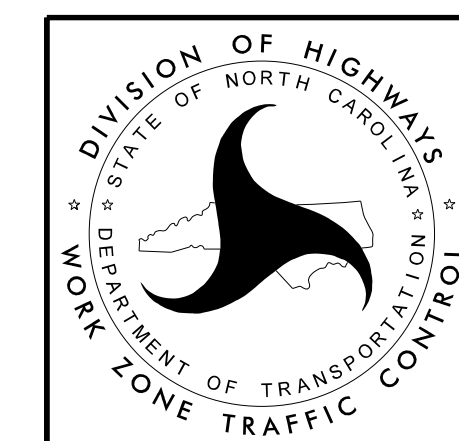
### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
1 2		<p style="text-align: center;"><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p style="text-align: center;">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.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p> </div> <div style="text-align: center;"> <p>PLACED 250' IN ADVANCE OF FLAGGER.</p> </div> </div>
3 *		<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#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)</p> <p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>
4		<p>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.</p>
5		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>

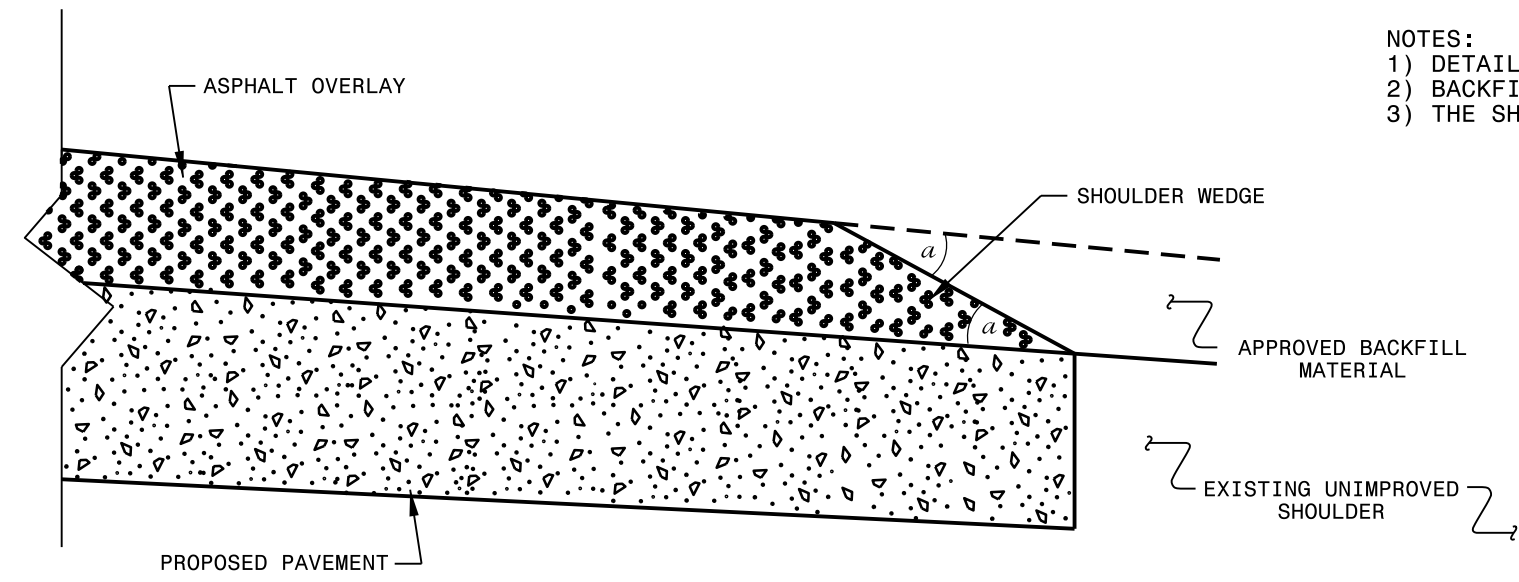
### \* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:  
STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).

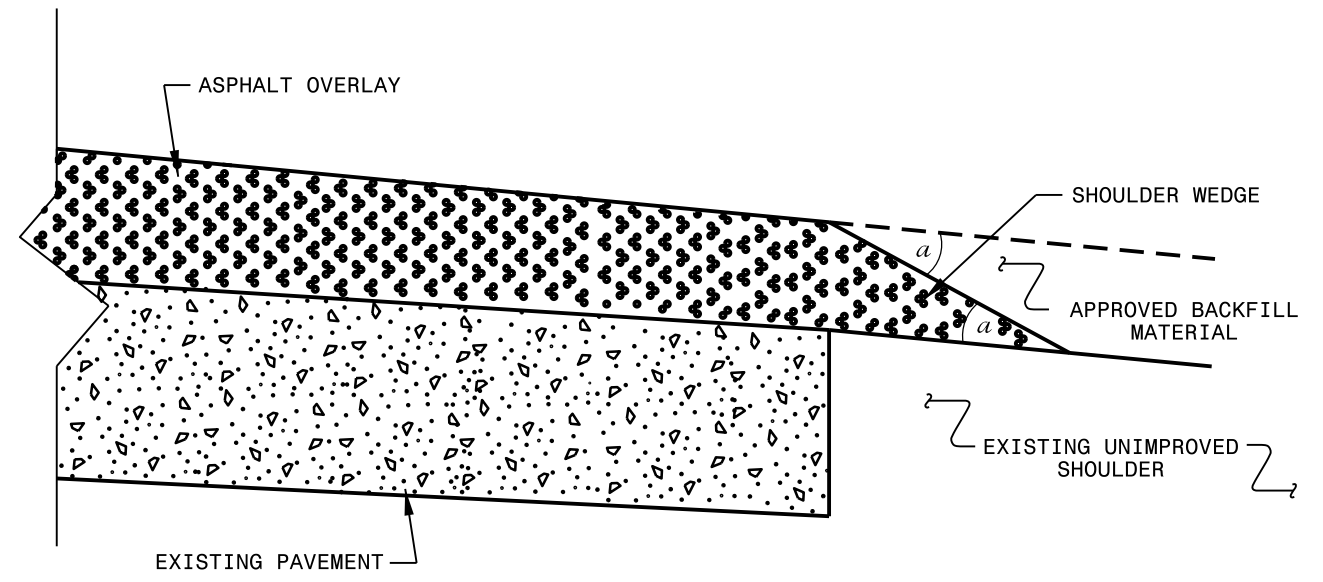


**RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS**

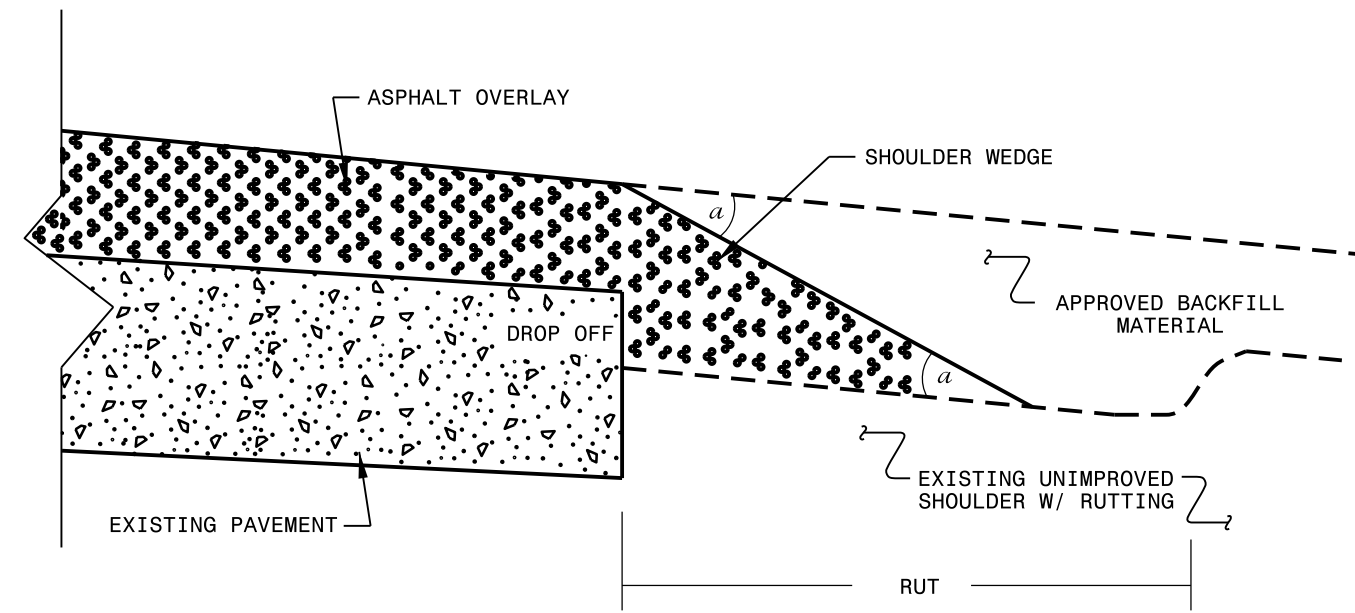
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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.: susr/details/stand/shoulderwedgedetail.dgn

SYSTEMS DESIGN  
 USER NAME

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**

***SOIL STABILIZATION TIMEFRAMES***

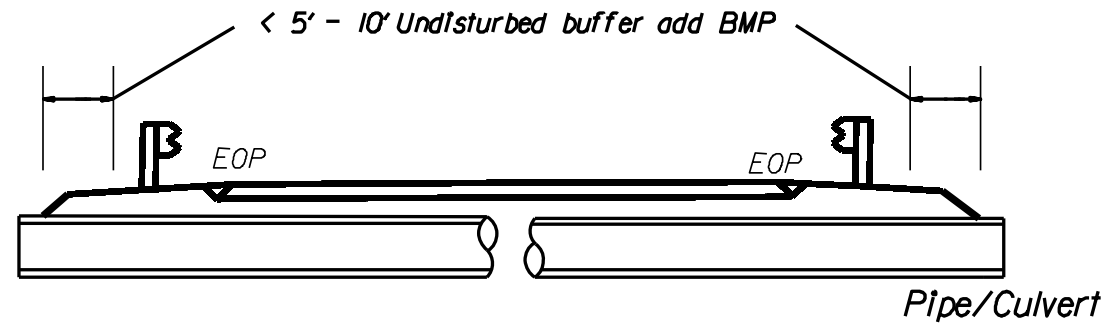
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
<b>PERIMETER DIKES, SWALES, DITCHES AND SLOPES</b>	<b>7 DAYS</b>	<b>NONE</b>
<b>HIGH QUALITY WATER (HOW) ZONES</b>	<b>7 DAYS</b>	<b>NONE</b>
<b>SLOPES STEEPER THAN 3:1</b>	<b>7 DAYS</b>	<b>IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.</b>
<b>SLOPES 3:1 OR FLATTER</b>	<b>14 DAYS</b>	<b>7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.</b>
<b>ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1</b>	<b>14 DAYS</b>	<b>NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.</b>

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

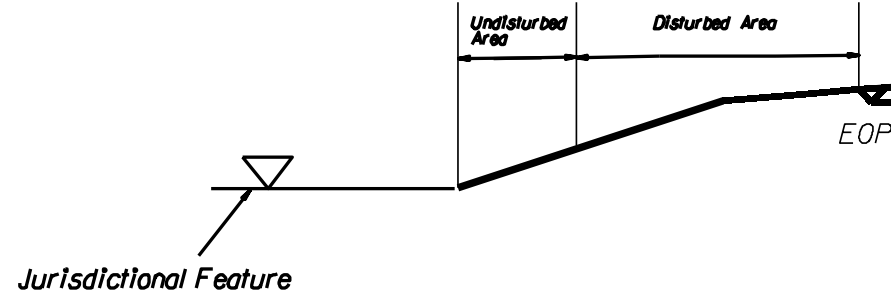
BMP Options: Wattle, Silt Fence, or Hardened Aggregate.

## EROSION CONTROL DETAIL

PROJECT REFERENCE NO. <b>1-1111</b>	SHEET NO. <b>10-11/01/11</b>
RDW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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

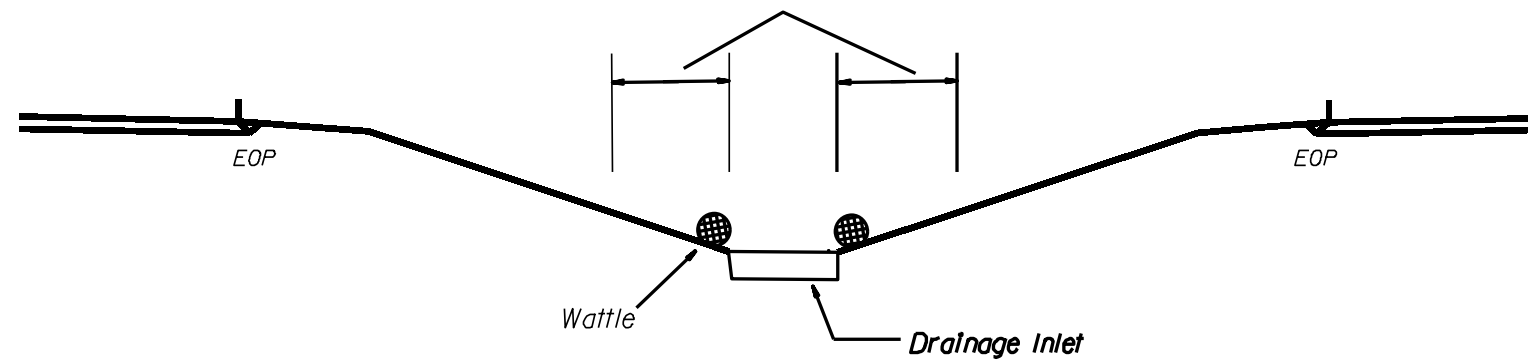


< 5' - 10' Undisturbed buffer from ditchline, add BMP

Use BMP's if shoulders and/or front slopes and/or ditchline and/or back slopes are disturbed

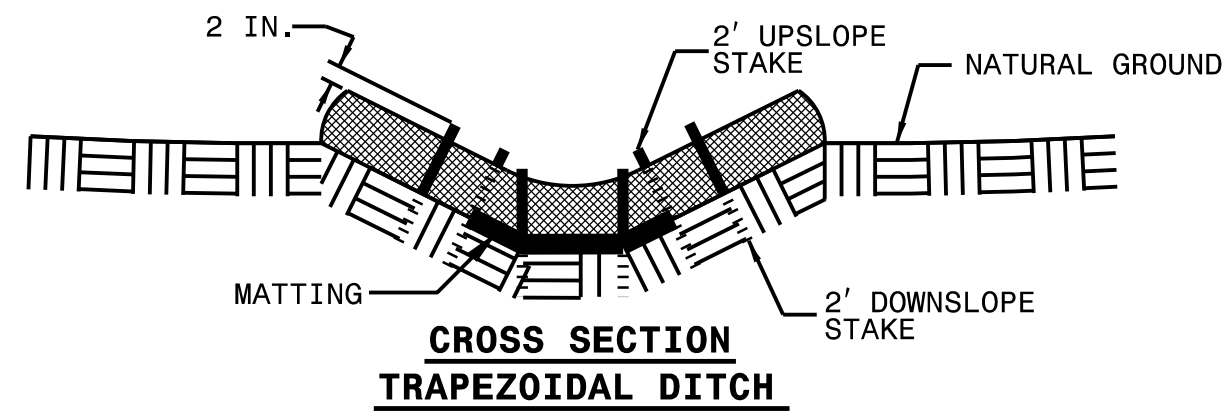
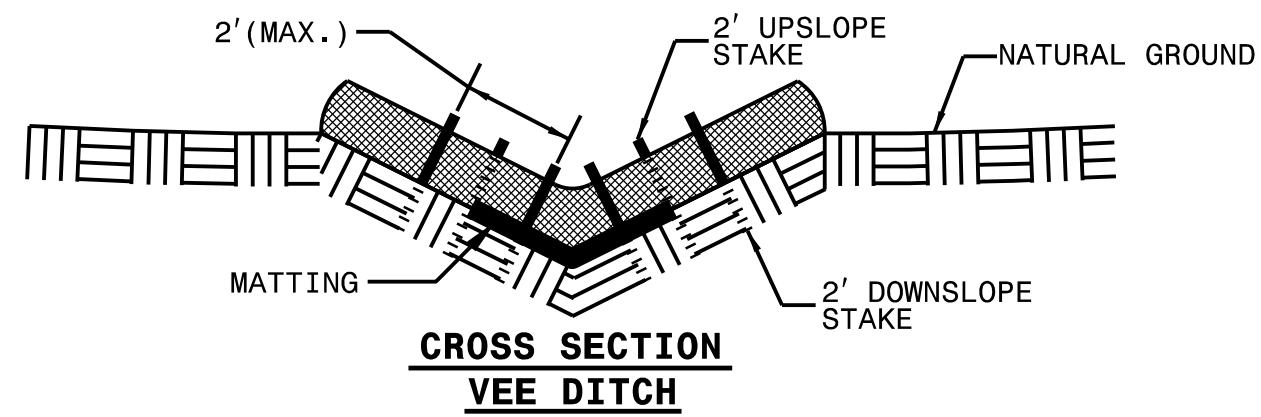
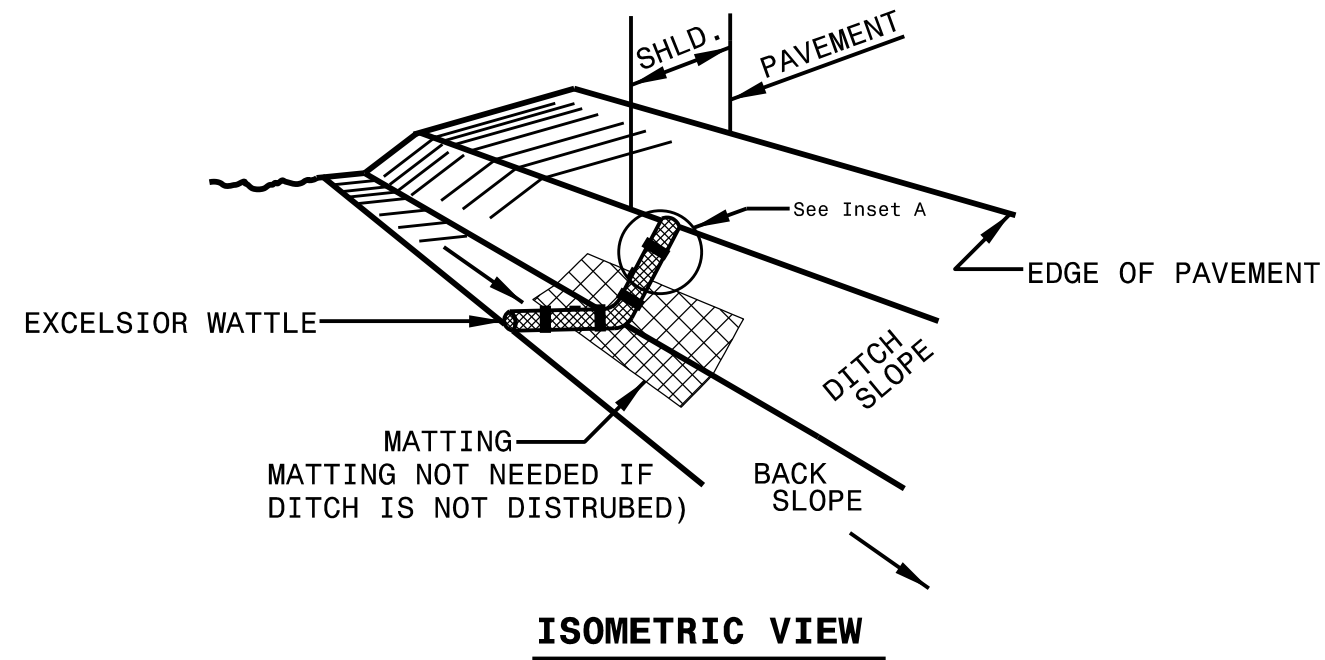


< 5' - 10' Undisturbed buffer from Inlet, add wattle



NOT TO SCALE

# WATTLE DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

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

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

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

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

IF DITCH WILL BE DISTURBED, INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

