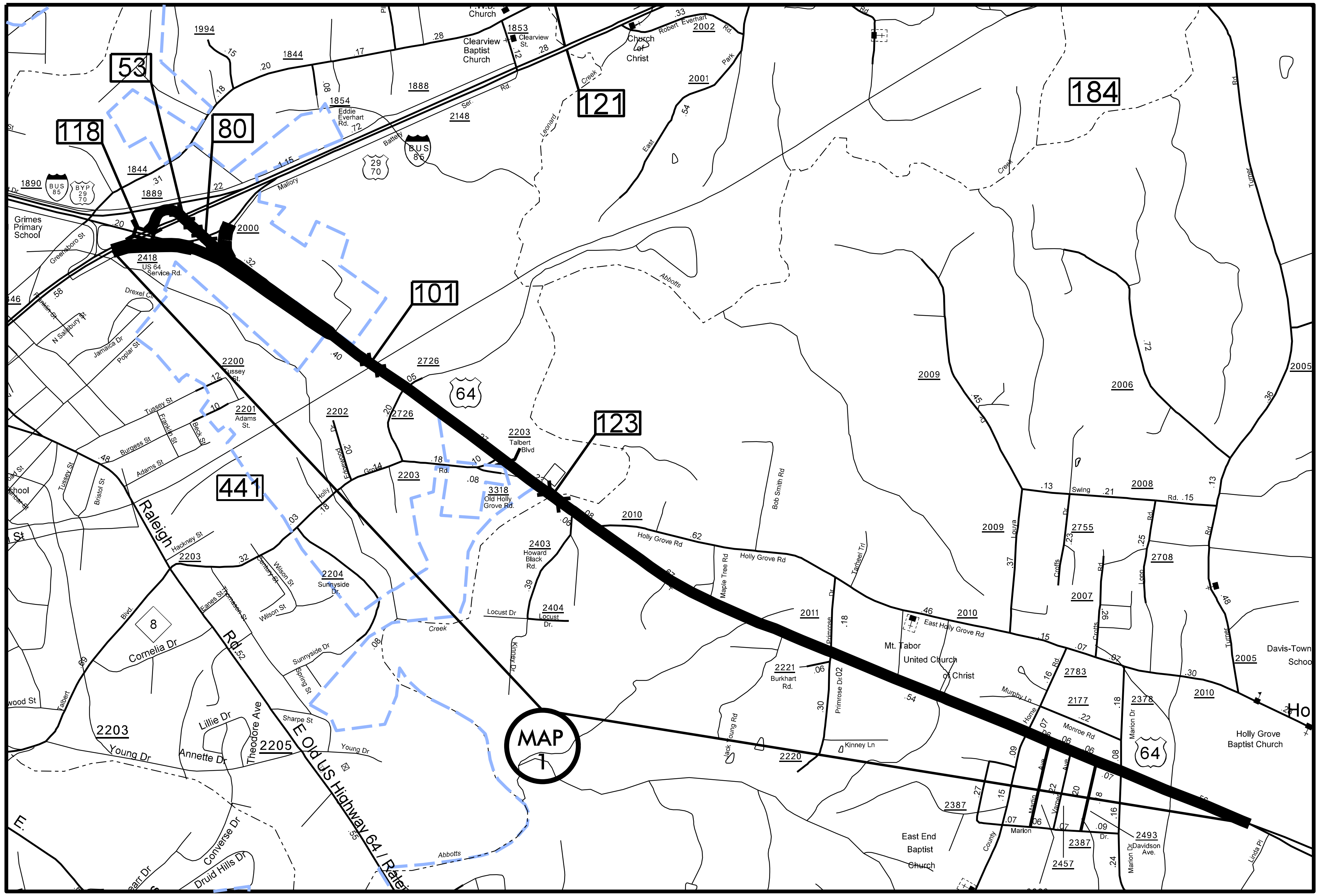
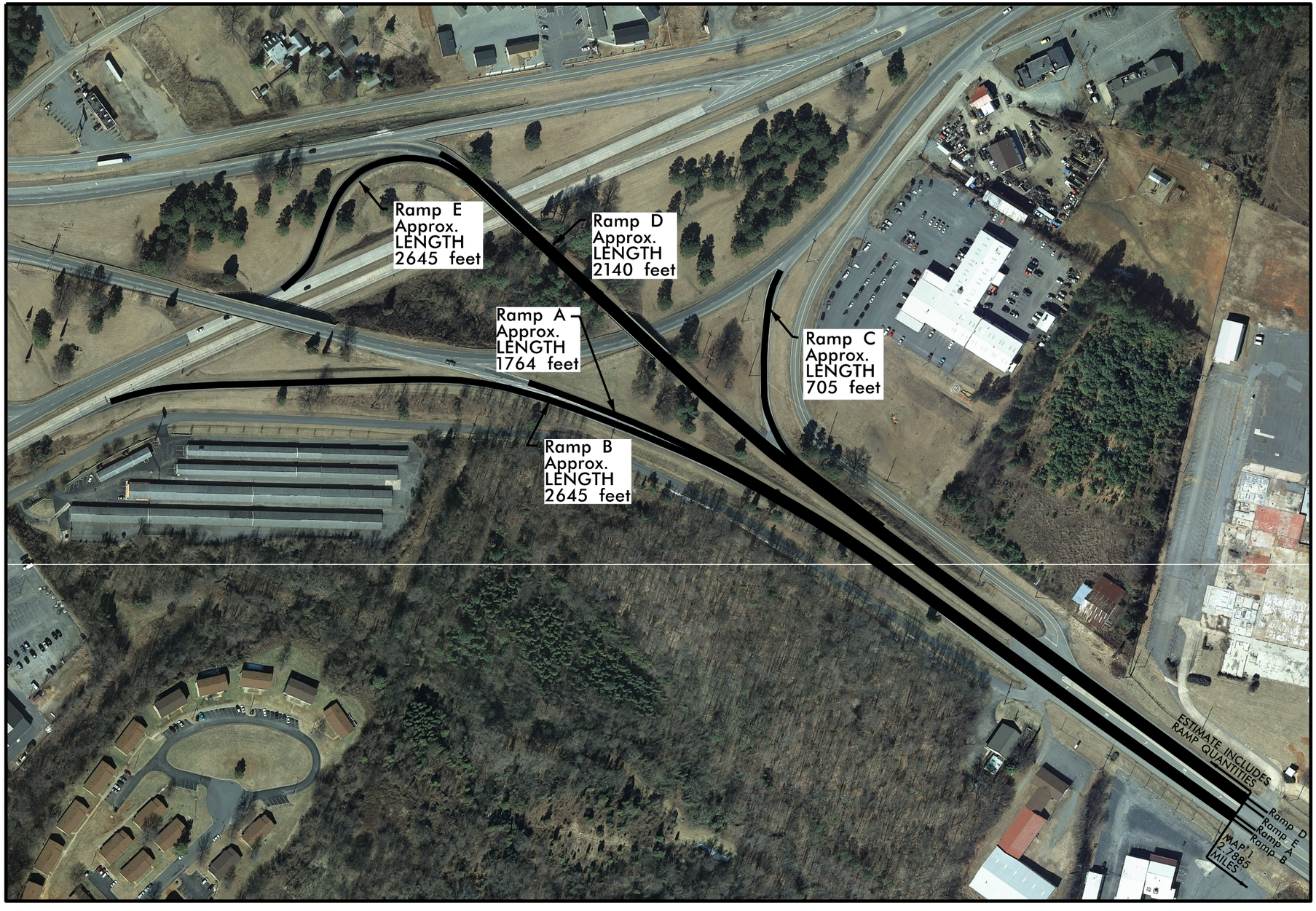
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	1



MAP 1
US 64
Mill 1½″ Depth full width of pavement, edge of pavement to edge of pavement.
SEE SHEET NO. 2 FOR RAMP BEGINNING AND END POINTS.

DAVIDSON COUNTY
NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	2



N

MAP 1 US 64

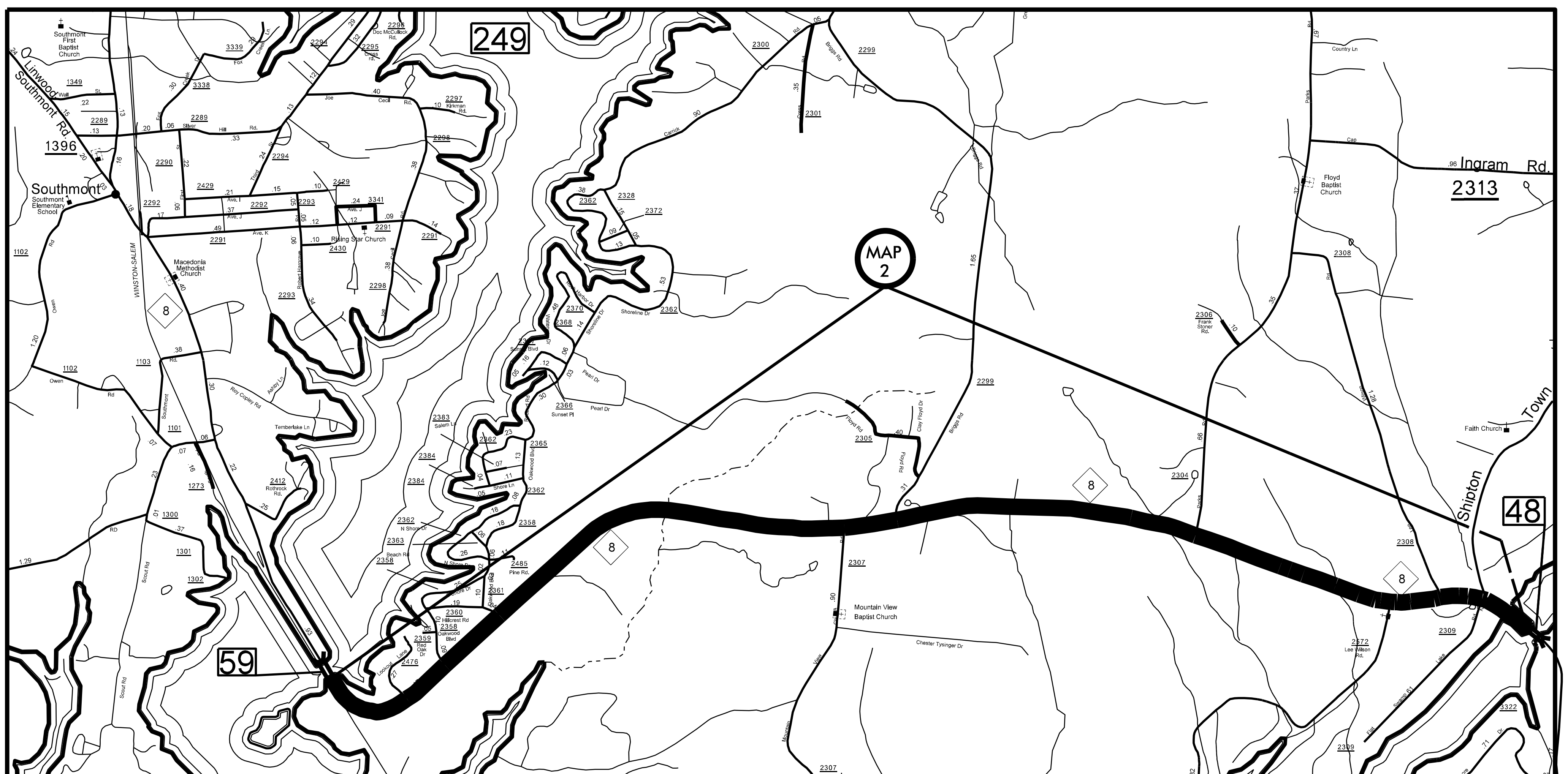
Mill 1½" Depth full width of pavement, edge of pavement to edge of pavement.

ALL WORK ON THIS MAP TO BE NIGHT TIME ONLY
7 P.M. TO 6 A.M., Monday–Sunday.

DISTANCE IN ESTIMATE IS TO NOSE OF ISLAND AS SHOWN, QUANTITIES INCLUDE PAVING OF RAMPS AS SHOWN.

DAVIDSON COUNTY
NORTH CAROLINA

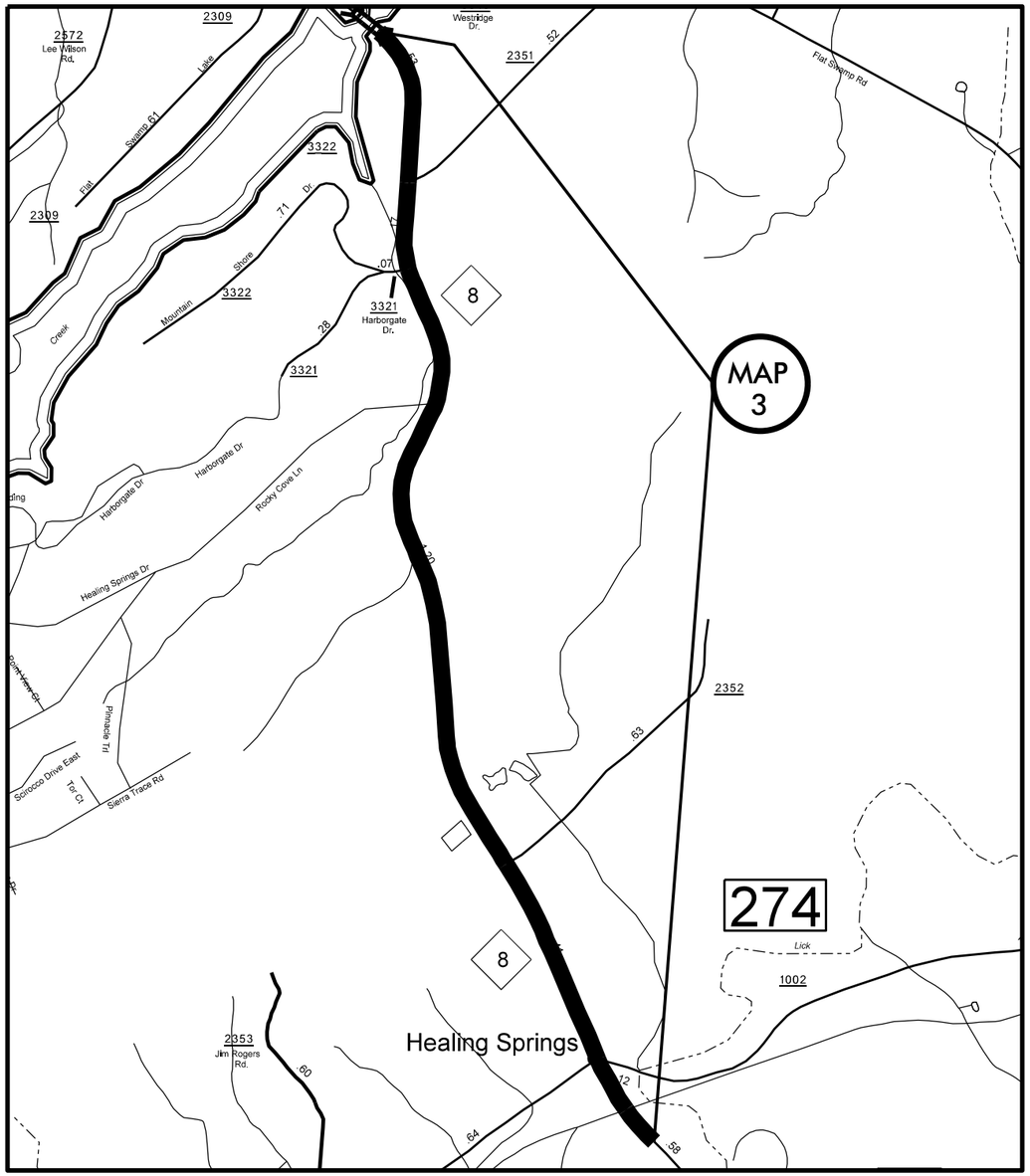
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	3



MAP 2
NC 8
Mill 1½″ depth full width of pavement.
Pave back with 1½″ S9.5B

DAVIDSON COUNTY
NORTH CAROLINA

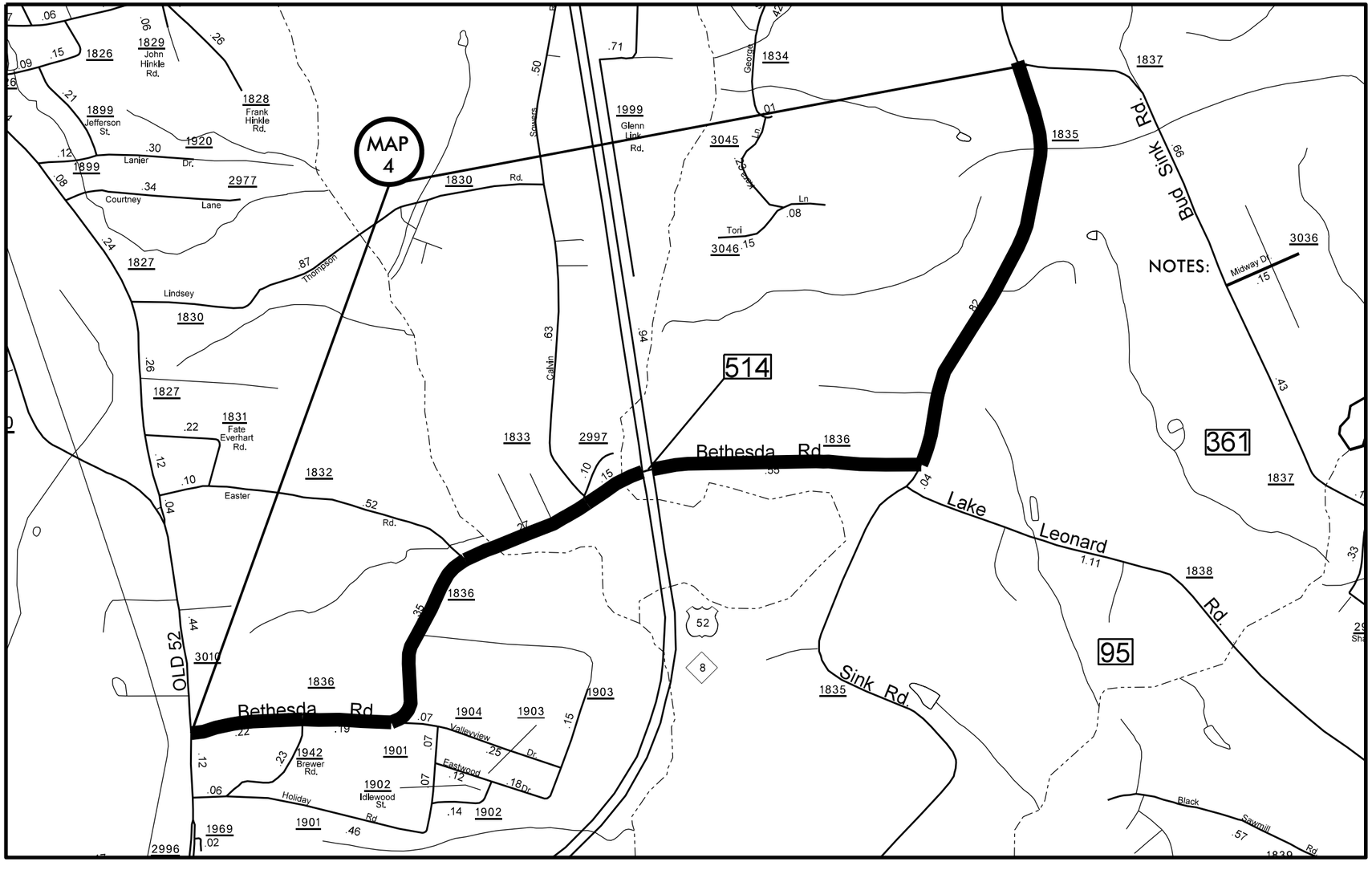
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	4



MAP 3
NC 8
Mill 1½" depth full width of pavement.
Pave back with 1½" S9.5B.
Tie in Mill at South end of Map, Map ends Approximately 100 feet south of drive at Street Address "18846 NC 8".

DAVIDSON COUNTY
NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	5

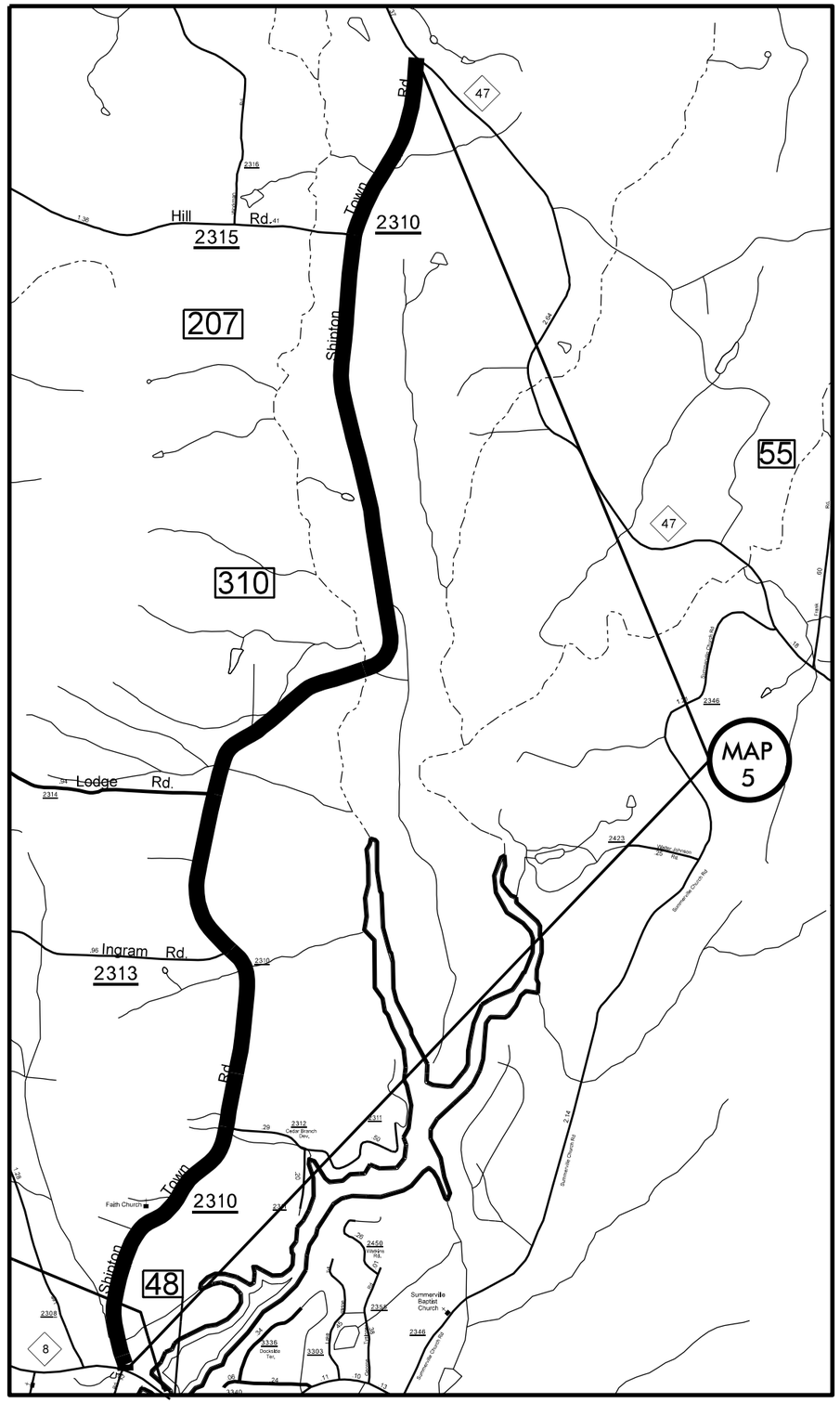


MAP 4
Bethesda Rd. SR 1836

Re–establish crown with 2" in middle and 1½" at pavement edge.

DAVIDSON COUNTY
NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	6

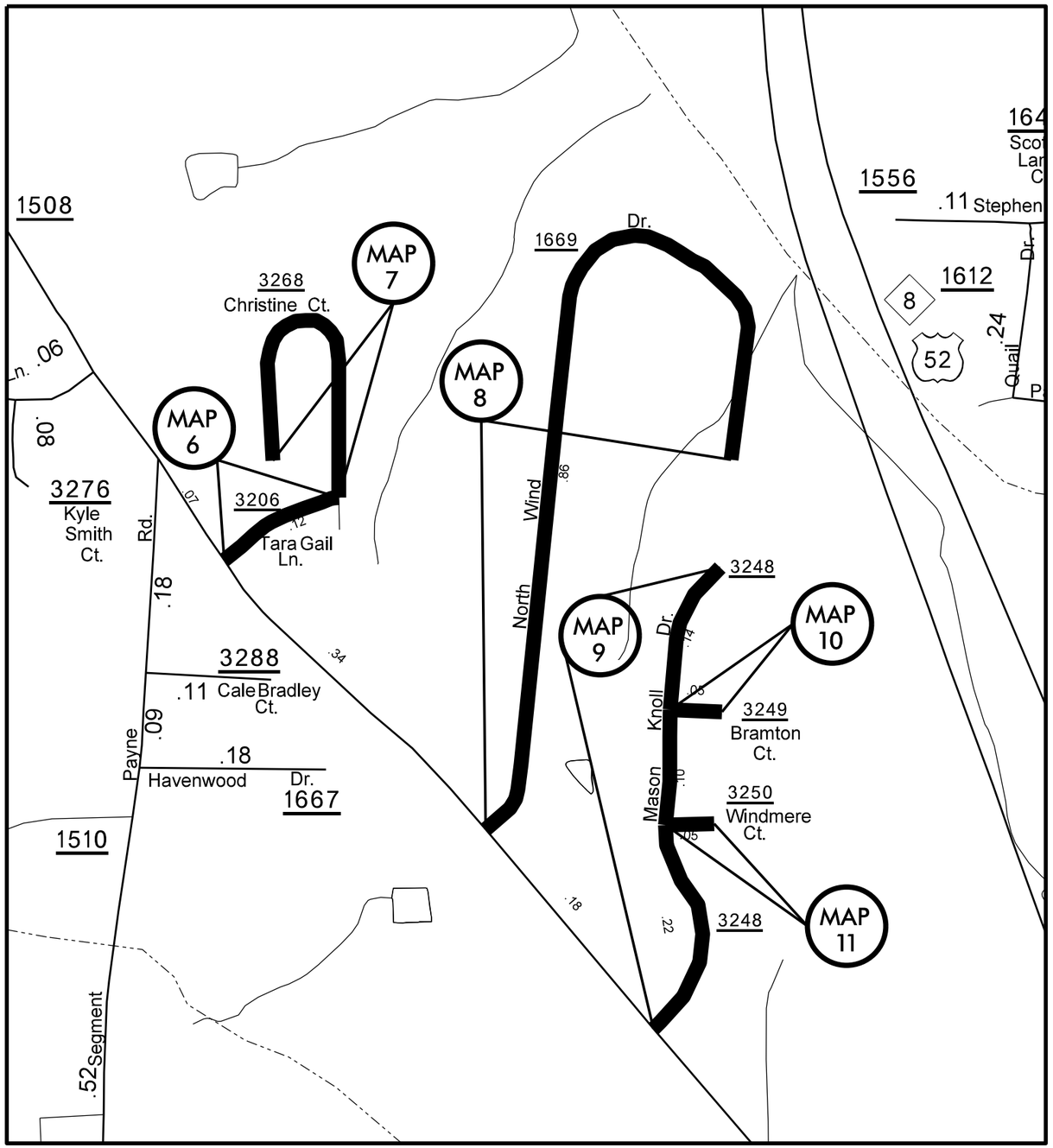


N

MAP 5
Shiptontown Rd. SR 2310
Tie in Mill at NC 47.
Tie into new surface at NC 8,
NO MILLING on NC 8 end
tie into new surface at NC 8.

DAVIDSON COUNTY
NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	7



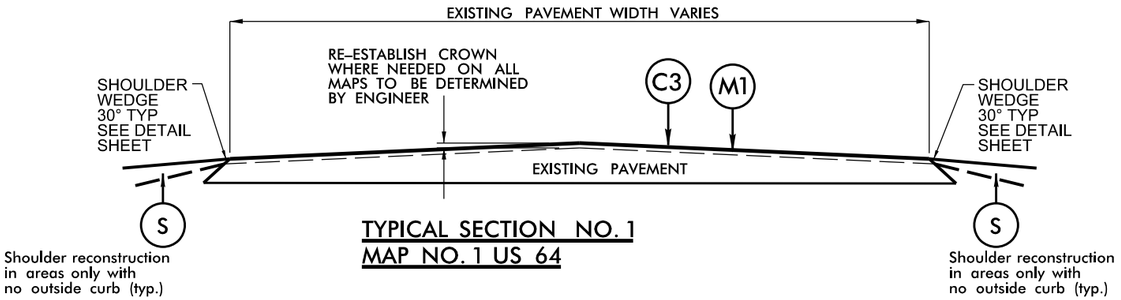
MAP 6 Tara Gail SR 3206
MAP 7 Christine Ct. SR 3268
MAP 8 North Wind Dr. SR 1669
PAVE WITH 1½" SF9.5A
NO PAVEMENT MARKINGS REQUIRED.

MAP 9 Mason Knoll SR 3248
MAP 10 Bramton Ct. SR 3249
MAP 11 Windemere Ct. SR 3250
PAVE WITH 1" S4.75A
NO PAVEMENT MARKINGS REQUIRED.

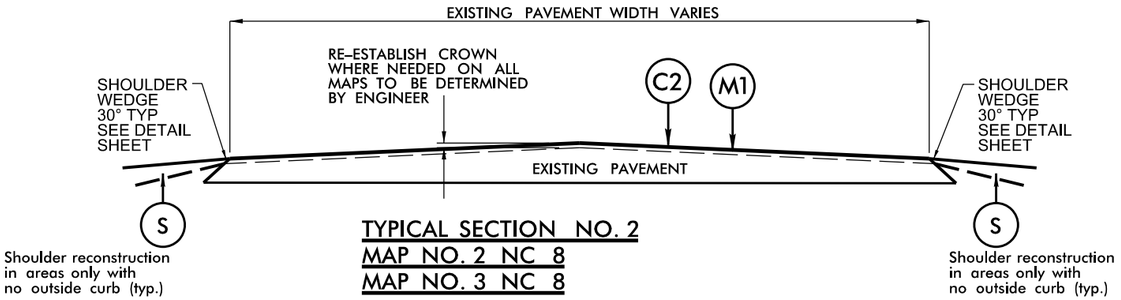
All Maps
- NO MILLING
- NO PAVEMENT MARKINGS
- NO SHOULDER RECONSTRUCTION
- PAVE ONLY

DAVIDSON COUNTY
NORTH CAROLINA

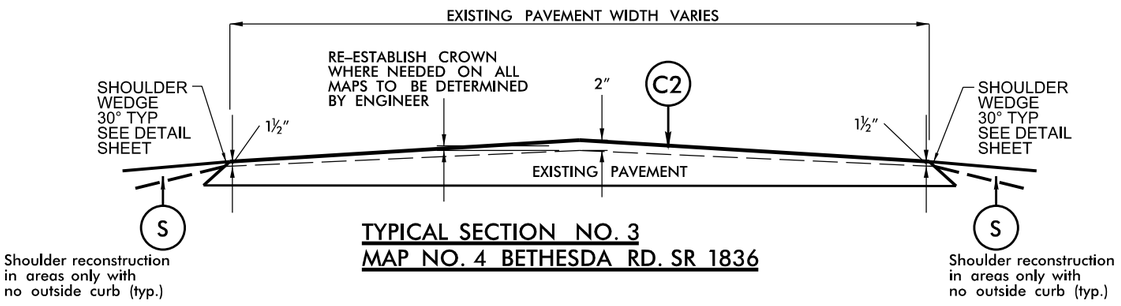
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	8



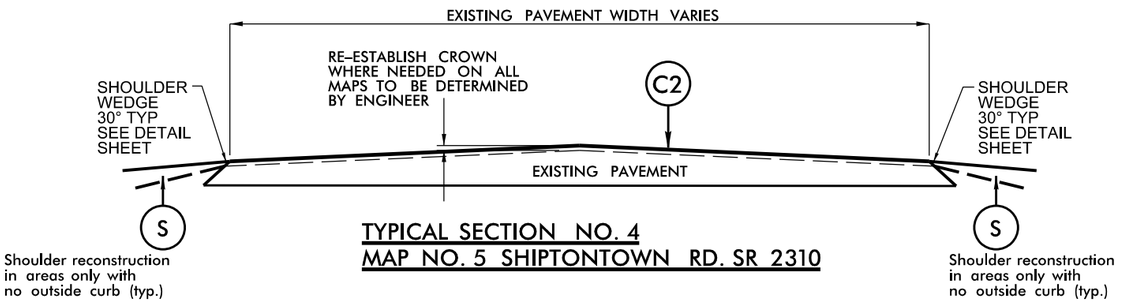
TYPICAL SECTION NO. 1
MAP NO. 1 US 64



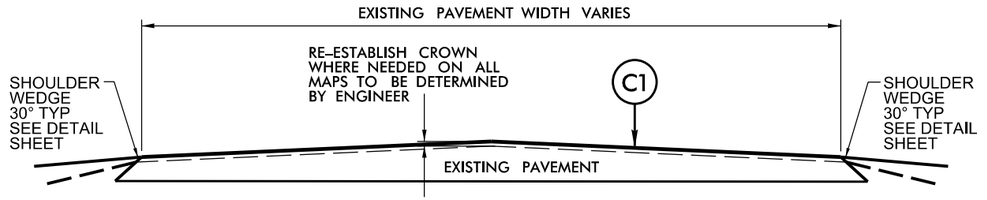
TYPICAL SECTION NO. 2
MAP NO. 2 NC 8
MAP NO. 3 NC 8



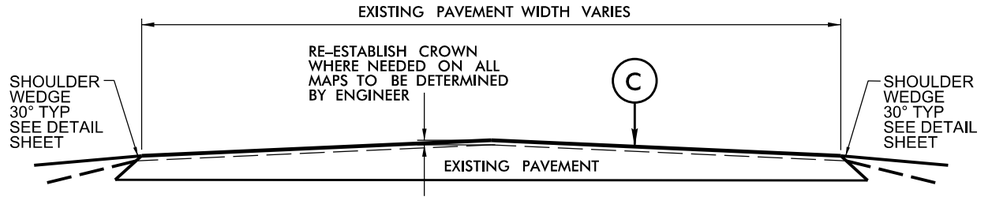
TYPICAL SECTION NO. 3
MAP NO. 4 BETHESDA RD. SR 1836



TYPICAL SECTION NO. 4
MAP NO. 5 SHIPTONTOWN RD. SR 2310



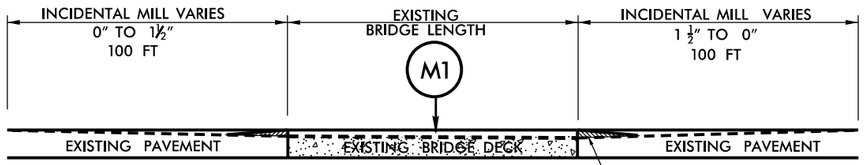
TYPICAL SECTION NO. 5
MAP NO. 6 TARA GAIL LANE SR 3206
MAP NO. 7 CHRISTINE CT. SR 3268
MAP NO. 8 NORTHWIND DR. SR 1669



TYPICAL SECTION NO. 6
MAP NO. 9 MASON KNOLL DR.SR 3248
MAP NO. 10 BRAMTON CT. SR 3249
MAP NO. 11 WINDMERE CT. SR 3250

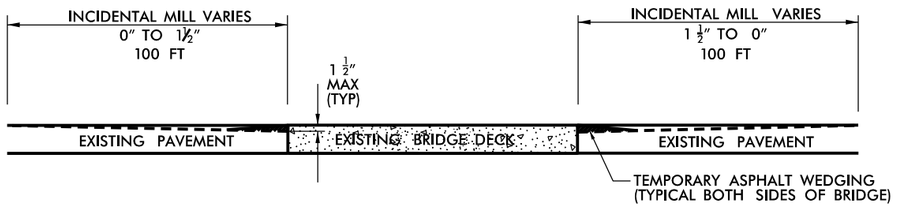
PAVEMENT SCHEDULE	
C	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S 4.75A, TO BE APPLIED AT AN AVERAGE RATE OF 100 LBS PER SQ YD.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C2	PROP. APPROX. 1¾" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 196 LBS PER SQ YD.
C3	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	9



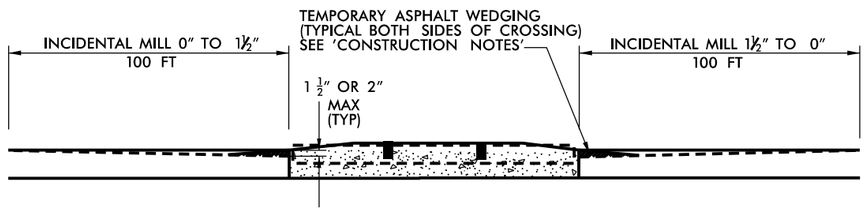
INCIDENTAL MILLING–BRIDGE DECK AND APPROACHES

(SEE BRIDGE DATA SHEET)

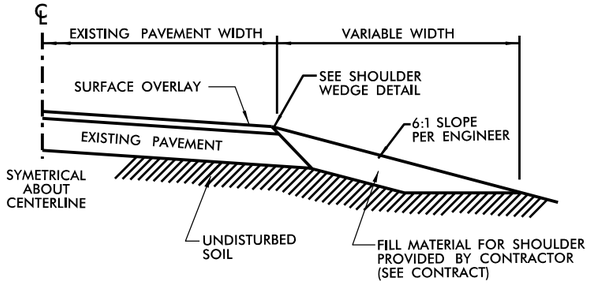


INCIDENTAL MILLING–BRIDGE APPROACHES

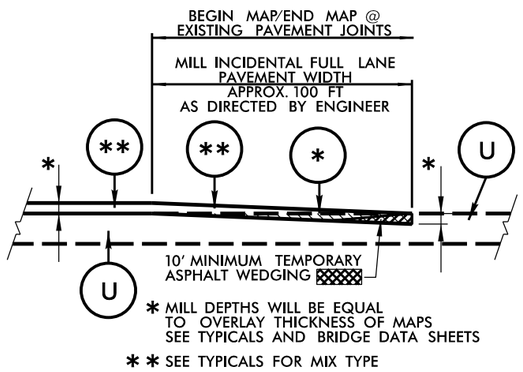
(SEE BRIDGE DATA SHEET)



INCIDENTAL MILLING–RAILROAD CROSSING APPROACHES



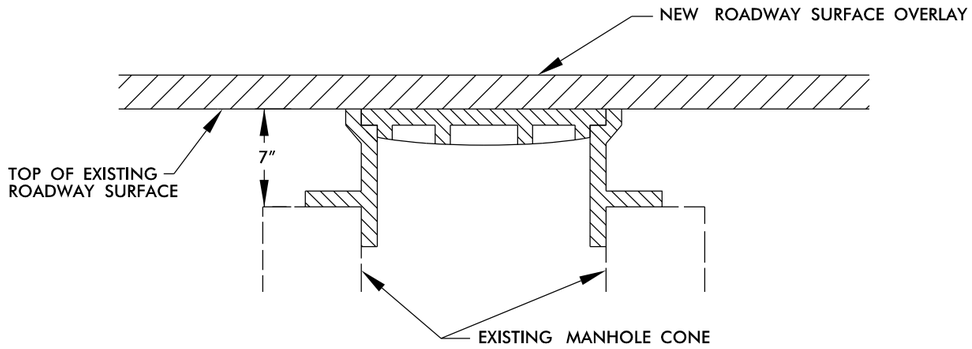
SHOULDER RECONSTRUCTION



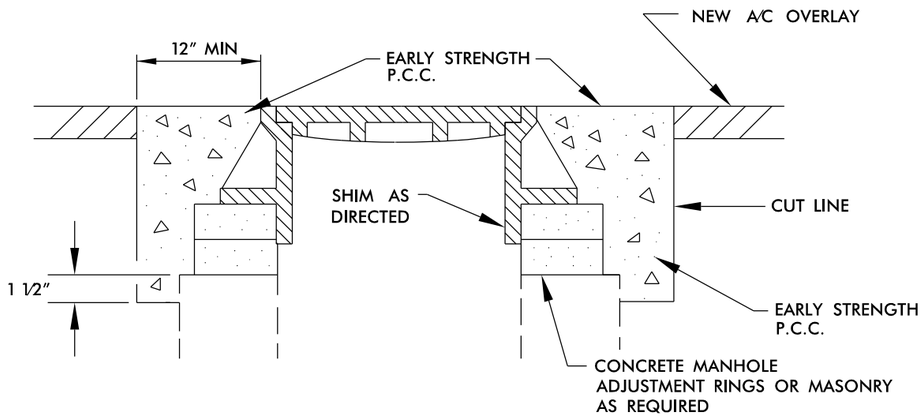
INCIDENTAL MILLING AT TIE–IN DETAIL

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S 4.75A, TO BE APPLIED AT AN AVERAGE RATE OF 100 LBS PER SQ YD.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C2	PROP. APPROX. 1¾" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 196 LBS PER SQ YD.
C3	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	10



STEP 1



STEPS 2,3, & 4

STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE

STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.

STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAVEMENT PROFILE AND CROSS SLOPE.

STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

MANHOLE ADJUSTMENT DETAIL

CONSTRUCTION NOTES:

1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".

2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:

   PHASE 1 – MILLING AND PATCHING (WHEN REQUIRED)
   PHASE 2 – SURFACE OVERLAY
   PHASE 3 – SHOULDER DROP–OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
   PHASE 4 – UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.) WHEN REQUIRED.

3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.

4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).

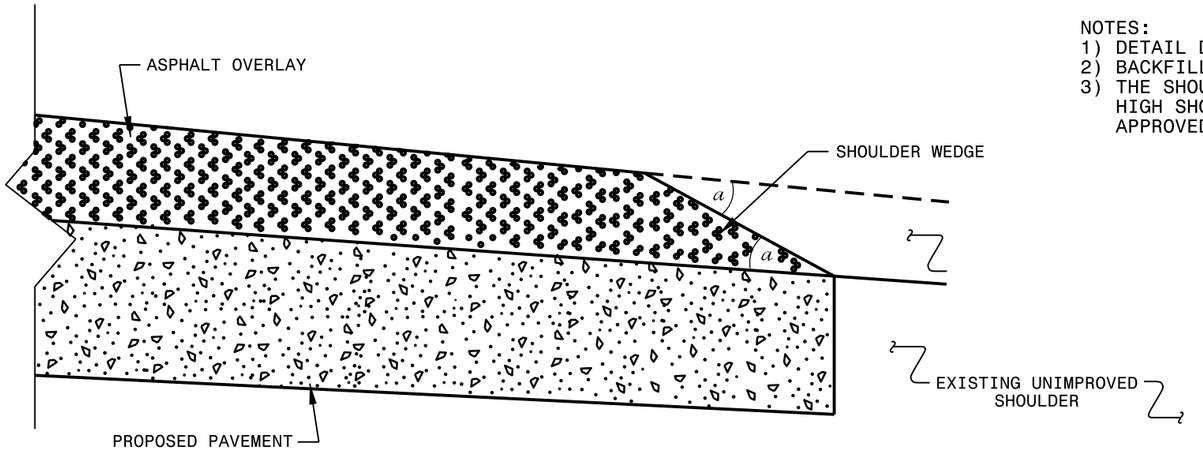
5. FOR TWO–LANE ROADWAYS – IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE. THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

6. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610–11.

7. ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.

9. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS AT ANY INTERSECTION INCLUDING Y–LINES NOT ACTUALLY BEING PAVED OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING OPERATION

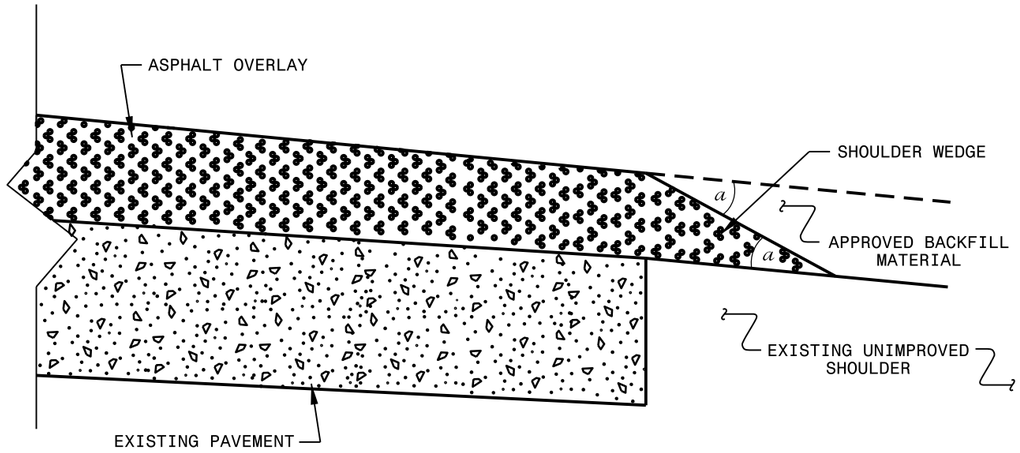
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1.ETC.	11



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, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.

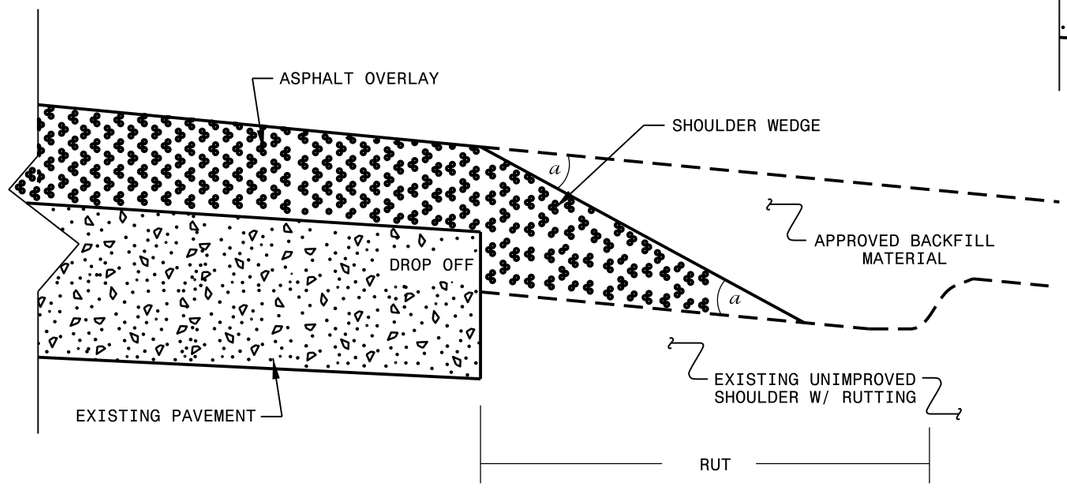
SHOULDER WEDGE DETAIL

(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:	2/2/16
CHECKED BY:		DATE:	
FILE SPEC.:	s:usr/details/stand/shoulderwedgedetail.dgn		

$$$$$$SYSTIME$$$$$
$$$$$$USERNAME$$$$$

Davidson County 2017 Resurfacing Bridges

PROJECT NO.	SHEET NO.
2016CPT.09.18.10291.1 2016CPT.09.19.20291.1	12

Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
1	US 64	US29/70BUS/ I85 NBL	118	US29/70BUS/ I85BUSNBL	6.5 RC, 5" AWS	30	NA	NA	260	NA	INFORMATION ONLY
1	US 64	US 64 WBL	53	SR 3346 MAIN ST.	6.75 RC, 3" AWS	28	NA	NA	164	NA	MILL 1 1/2" AND PAVE Back 1.5"
1	US 64	US 64 WBL	80	US 29/70 BUS/ I-85 BUS NBL	6.75 RC 3 AWS	28	NA	NA	130	NA	MILL 1 1/2" AND PAVE Back 1.5"
1	US 64	US 64	101	SOUTHERN RAILROAD	8.5 RC SLAB	80.1	NA	NA	146	NA	DO NOT MILL OR PAVE
1	US 64	US 64	123	ABBOTTS CREEK	8 1/2 RC SLAB	80.1	NA	NA	112	SV 33 TTST 40	DO NOT MILL OR PAVE
2,3	NC 8	NC 8	59	ABBOTTS CREEK	8 1/8 RC SLAB	40	NA	NA	295	NA	DO NOT MILL OR PAVE
3	NC 8	NC 8	48	HIGH ROCK LAKE	8.5 RC SLAB	40	NA	NA	140	NA	DO NOT MILL OR PAVE
5	SR 1836	BETHESDA RD.	514	US 52 & NC 8	5.25 RC, 3.5 PPC	31	NA	NA	206	NA	DO NOT MILL OR PAVE
6	SR 2310	SHIPTONTOWN RD.	310	FOUR MILE CREEK	PPCCS, 3.25 AWS	24.9	NA	NA	97	NA	MILL 1 1/2" AND PAVE Back 1.5"

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.09.18.10291.1, 2016CPT.09.19.20291.1	13	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	NON-TRACKING ASPHALT TACK COAT	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECON-STRUCTION SMI	MILLING ASPHALT PAVEMENT, 1 1/2"DEPTH SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	SURFACE COURSE, SF9.5A TONS	SURFACE COURSE, S4.75A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJ. OF METER OR VALVE BOX EA	PORTABLE LIGHTING LS	TEMP SILT FENCE LF	WATTLE LF
2016CPT.09.18.10291.1	Davidson	1	US 64	FROM PAVEMENT JT. AT END OF MEDIAN AT LINDA PLACE TO NOSE OF CONC. MEDIAN NEAR ENT. TO SMART START OF DAVIDSON CO. INCLUDES RAMPS AS SHOWN ON MAPS	1	5	2WU	NO	NO	YES	2.789	71	540		7.44	133,215			12,888			760			1	1,803	181
TOTAL FOR MAP NO. 1											**2.789**		**540**		**7.44**	**133,215**			**12,888**			**760**			**1**	**1,803**	**181**
2016CPT.09.18.10291.1	Davidson	2	NC 8	FROM BRIDGE # 59 TO BRIDGE # 48	2	2	2WU	NO	NO	YES	4.247	22	510	183	8.49	62,002		5,538				332	831	1		1,699	170
TOTAL FOR MAP NO. 2											**4.247**		**510**	**183**	**8.49**	**62,002**		**5,538**				**332**	**831**	**1**		**1,699**	**170**
2016CPT.09.18.10291.1	Davidson	3	NC 8	FROM BRIDGE #48 TO APPROX. 100 FEET SOUTH OF DRIVE AT STREET ADDRESS "18846 NC 8"	2	2	2WU	NO	NO	YES	2.3	20	276	207	4.60	28,166		2,737				164	410			920	92
TOTAL FOR MAP NO. 3											**2.3**		**276**	**207**	**4.60**	**28,166**		**2,737**				**164**	**410**			**920**	**92**
TOTAL FOR PROJ NO. 2016CPT.09.18.10291.1											**9.336**		**1,326**	**390**	**20.53**	**223,383**		**8,275**	**12,888**			**1,256**	**1,241**	**1**	**1**	**4,422**	**443**
2016CPT.09.19.20291.1	Davidson	4	SR 1836 BETHESDA RD.	FROM OLD US 52 TO PAVEMENT JT. AT BUDD SINK RD. SR 1837	3	2	2WU	NO	NO	YES	2.483	23	298	180	4.97		1,323	3,800				228				993	99
TOTAL FOR MAP NO. 4											**2.483**		**298**	**180**	**4.97**		**1,323**	**3,800**				**228**				**993**	**99**
2016CPT.09.19.20291.1	Davidson	5	SR 2310 SHIPTONTOWN RD.	FROM NC 8 EDGE OF PAVEMENT TO NC 47 EDGE OF PAVEMENT	4	2	2WU	NO	NO	YES	5.027	20	603	204	10.05	268	667	5,733				344				2,011	201
TOTAL FOR MAP NO. 5											**5.027**		**603**	**204**	**10.05**	**268**	**667**	**5,733**				**344**				**2,011**	**201**
2016CPT.09.19.20291.1	Davidson	6	SR 3206 TARA GAIL LANE	FROM HICKORY TREE RD. SR 1508 TO CHRISTINE CT. SR 3268	5	2	2WU	NO	NO	YES	0.105	18								106		7					
TOTAL FOR MAP NO. 6											**0.105**									**106**		**7**					
2016CPT.09.19.20291.1	Davidson	7	SR 3268 CHRISTINE CT.	FROM TARA GAIL LANE END TO BOTH DIRECTIONS OF CHRISTINE CT. INCLUDING CUL-DE-SACS	5	2	2WU	NO	NO	YES	0.356	18								442		30					
TOTAL FOR MAP NO. 7											**0.356**									**442**		**30**					
2016CPT.09.19.20291.1	Davidson	8	SR 1669 NORTH WIND DR.	FROM HICKORY TREE RD. SR 1508 TO END	5	2	2WU	NO	NO	YES	0.852	19								953		64					
TOTAL FOR MAP NO. 8											**0.852**									**953**		**64**					
2016CPT.09.19.20291.1	Davidson	9	SR 3248 MASON KNOLL DR.	FROM HICKORY TREE RD. SR 1508 TO END	6	2	2WU	NO	NO	YES	0.454	19									324	22					
TOTAL FOR MAP NO. 9											**0.454**										**324**	**22**					
2016CPT.09.19.20291.1	Davidson	10	SR 3249 BRAMTON CT.	FROM MASON KNOLL DR. SR 3248 TO END	6	2	2WU	NO	NO	YES	0.058	18									66	4					
TOTAL FOR MAP NO. 10											**0.058**										**66**	**4**					
2016CPT.09.19.20291.1	Davidson	11	SR 3250 WINDMERE CT.	FROM MASON KNOLL DR. SR 3248 TO END	6	2	2WU	NO	NO	YES	0.058	18									62	4					
TOTAL FOR MAP NO. 11											**0.058**										**62**	**4**					
TOTAL FOR PROJ NO. 2016CPT.09.19.20291.1											**9.393**		**901**	**384**	**15.02**	**268**	**1,990**	**9,533**		**1,501**	**452**	**703**				**3,004**	**300**
GRAND TOTAL											**18.729**		**2,227**	**774**	**35.55**	**223,651**	**1,990**	**17,808**	**12,888**	**1,501**	**452**	**1,959**	**1,241**	**1**	**1**	**7,426**	**743**

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.09.18.10291.1, 2016CPT.09.19.20291.1	14	

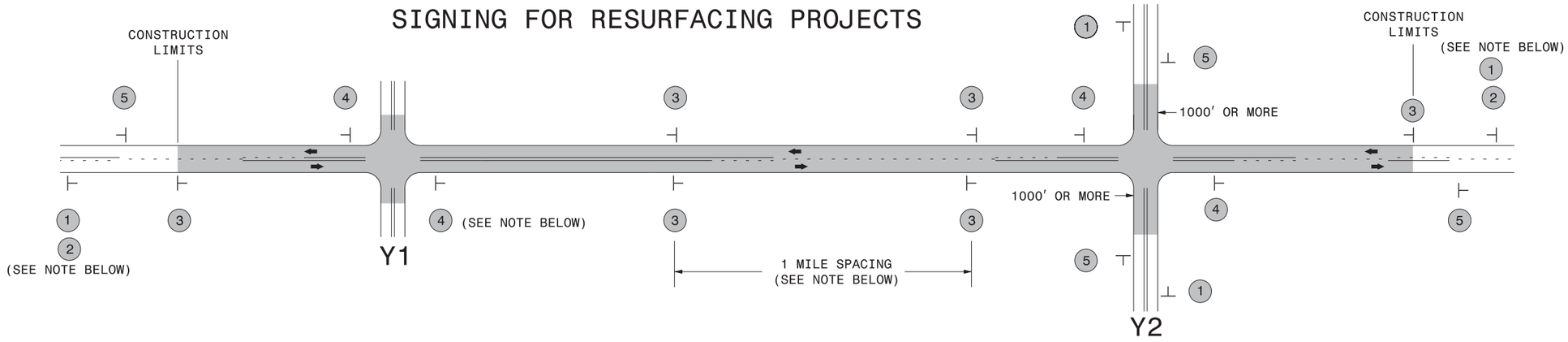
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	4457000000-N TEMPORARY TRAFFIC CONTROL LS	4685000000-E 4" X 90 M WHITE THERMO LF	4686000000-E 4" X 120 M YELLOW THERMO LF	4686000000-E 4" X 120 M WHITE THERMO LF	4705000000-E 16" X 120 M WHITE THERMO LF	4710000000-E 24" X 120 M WHITE THERMO LF	4721000000-E THERMO MSG ONLY 120 M EA	4721000000-E THERMO RXR 120 M EA	4725000000-E THERMO LT ARROW 90 M EA	4810000000-E 4" WHITE PAINT LF	4810000000-E 4" YELLOW PAINT LF	4820000000-E 8" WHITE PAINT LF	4830000000-E 16" WHITE PAINT LF	4835000000-E 24" WHITE PAINT LF	4840000000-N PAINT MSG RXR EA	4847000000-E 4" WHITE POLYUREA (HIGHLY REFLECTIVE ELEMENTS) LF	4847000000-E 4" YELLOW POLYUREA (HIGHLY REFLECTIVE ELEMENTS) LF	4847110000-E 8" WHITE POLYUREA (HIGHLY REFLECTIVE ELEMENTS) LF	4905000000-N SNOW PLOWABLE MARKERS EA
2016CPT.09.18.10291.1	Davidson	1	US 64	FROM PAVEMENT JT. AT END OF MEDIAN AT LINDA PLACE TO NOSE OF CONC. MEDIAN NEAR ENT. TO SMART START OF DAVIDSON CO. INCLUDES RAMPS AS SHOWN ON MAPS	1	5	2WU	2.789	71	2,258	1					79	16		88	46,740	41,483	1,669		79		46,740	41,483	1,669	736
TOTAL FOR MAP NO. 1								**2.789**		**2,258**	**1**					**79**	**16**		**88**	**46,740**	**41,483**	**1,669**		**79**		**46,740**	**41,483**	**1,669**	**736**
2016CPT.09.18.10291.1	Davidson	2	NC 8	FROM BRIDGE # 59 TO BRIDGE # 48	2	2	2WU	4.247	22											46,122	45,123					46,122	45,123		280
TOTAL FOR MAP NO. 2								**4.247**												**46,122**	**45,123**					**46,122**	**45,123**		**280**
2016CPT.09.18.10291.1	Davidson	3	NC 8	FROM BRIDGE #48 TO APPROX. 100 FEET SOUTH OF DRIVE AT **STREET ADDRESS "18846 NC 8"**	2	2	2WU	2.3	20						50	25		2		24,844	24,288		50	25	2	24,844	24,288		152
TOTAL FOR MAP NO. 3								**2.3**							**50**	**25**		**2**		**24,844**	**24,288**		**50**	**25**	**2**	**24,844**	**24,288**		**152**
TOTAL FOR PROJ NO. 2016CPT.09.18.10291.1								**9.336**		**2,258**	**1**				**50**	**104**	**16**	**2**	**88**	**117,706**	**110,894**	**1,669**	**50**	**104**	**2**	**117,706**	**110,894**	**1,669**	**1,168**
																	18			**228,600**						**228,600**			
2016CPT.09.19.20291.1	Davidson	4	SR 1836 BETHESDA RD.	FROM OLD US 52 TO PAVEMENT JT. AT BUDD SINK RD. SR 1837	3	2	2WU	2.483	23			26,717	26,220	92												454	454		
TOTAL FOR MAP NO. 4								**2.483**				**26,717**	**26,220**	**92**												**454**	**454**		
2016CPT.09.19.20291.1	Davidson	5	SR 2310 SHIPTONTOWN RD.	FROM NC 8 EDGE OF PAVEMENT TO NC 47 EDGE OF PAVEMENT	4	2	2WU	5.027	20			54,091	53,085	60															
TOTAL FOR MAP NO. 5								**5.027**				**54,091**	**53,085**	**60**															
2016CPT.09.19.20291.1	Davidson	6	SR 3206 TARA GAIL LANE	FROM HICKORY TREE RD. SR 1508 TO CHRISTINE CT. SR 3268	5	2	2WU	0.105	18																				
TOTAL FOR MAP NO. 6								**0.105**																					
2016CPT.09.19.20291.1	Davidson	7	SR 3268 CHRISTINE CT.	FROM TARA GAIL LANE END TO BOTH DIRECTIONS OF CHRISTINE CT. INCLUDING CUL-DE-SACS	5	2	2WU	0.356	18																				
TOTAL FOR MAP NO. 7								**0.356**																					
2016CPT.09.19.20291.1	Davidson	8	SR 1669 NORTH WIND DR.	FROM HICKORY TREE RD. SR 1508 TO END	5	2	2WU	0.852	19																				
TOTAL FOR MAP NO. 8								**0.852**																					
2016CPT.09.19.20291.1	Davidson	9	SR 3248 MASON KNOLL DR.	FROM HICKORY TREE RD. SR 1508 TO END	6	2	2WU	0.454	19																				
TOTAL FOR MAP NO. 9								**0.454**																					
2016CPT.09.19.20291.1	Davidson	10	SR 3249 BRAMTON CT.	FROM MASON KNOLL DR. SR 3248 TO END	6	2	2WU	0.058	18																				
TOTAL FOR MAP NO. 10								**0.058**																					
2016CPT.09.19.20291.1	Davidson	11	SR 3250 WINDMERE CT.	FROM MASON KNOLL DR. SR 3248 TO END	6	2	2WU	0.058	18																				
TOTAL FOR MAP NO. 11								**0.058**																					
TOTAL FOR PROJ NO. 2016CPT.09.19.20291.1								**9.393**				**80,808**	**79,305**	**152**												**454**	**454**		
													79,457														**908**		
GRAND TOTAL								**18.729**		**2,258**	**1**	**80,808**	**79,305**	**152**	**50**	**104**	**16**	**2**	**88**	**117,706**	**110,894**	**1,669**	**50**	**104**	**2**	**118,160**	**111,348**	**1,669**	**1,168**
													79,457				**18**			**228,600**						**229,508**			

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

PROJ. REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1,ETC.	TMP-1

SIGNING FOR RESURFACING PROJECTS



LEGEND

⊢ STATIONARY SIGN

⬅ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 — ROAD WORK AHEAD, W20-1, 48″ X 48″

PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.

2 — NEXT XX MILES, W7-3aP, 24″ X 18″

#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 SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE 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.

5 — END ROAD WORK, G20-2 A, 48″ X 24″

PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS.

-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.

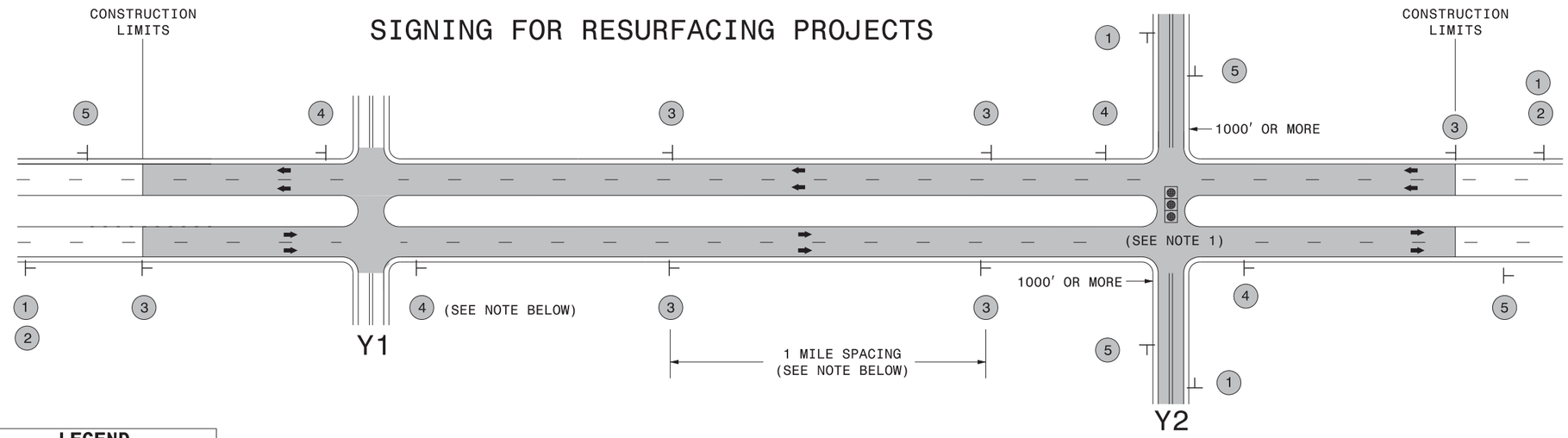
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

3/9/2015
C:\Users\rmgarrett\Downloads\Resurfacing_AdvWarn_2Ln (2).dgn
User:rmgarrett

PROJ. REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1,etc.	TMP-2

SIGNING FOR RESURFACING PROJECTS



LEGEND

- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 — ROAD WORK AHEAD (W20-1, 48″ X 48″)

PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.

2 — NEXT XX MILES (W7-3aP, 24″ X 18″)

#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 SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE 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.

5 — END ROAD WORK (G20-2 A, 48″ X 24″)

PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS.

-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.

NOTES:

1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE ″ROAD WORK AHEAD″ (W20-1) SIGNS 500′ IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.

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

RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS W/ SHOULDER SECTIONS

3/23/2015
C:\Users\rmgarrett\Downloads\Resurfacing_AdvWarn_UrSu_Shldr.dgn
User:rmgarrett

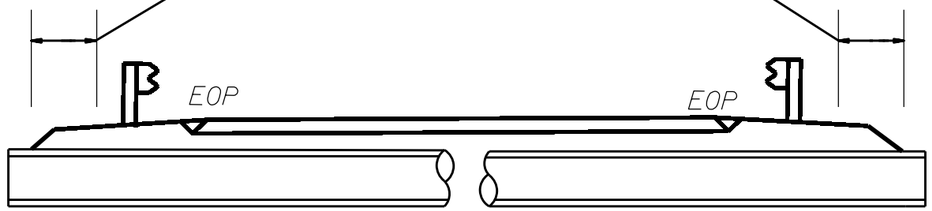
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.18.10291.1, ETC.	EC-1

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

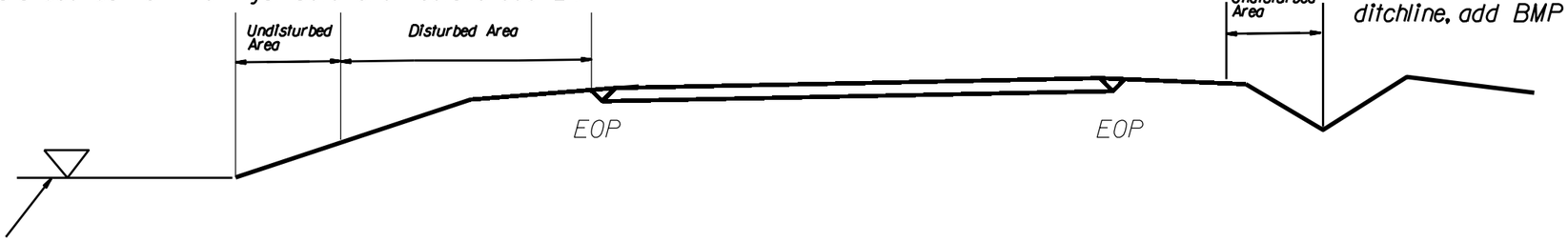
< 5' - 10' Undisturbed buffer add BMP



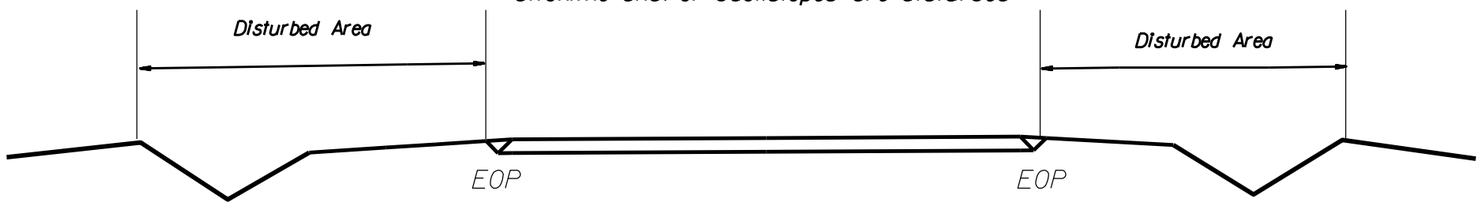
Pipe/Culvert

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

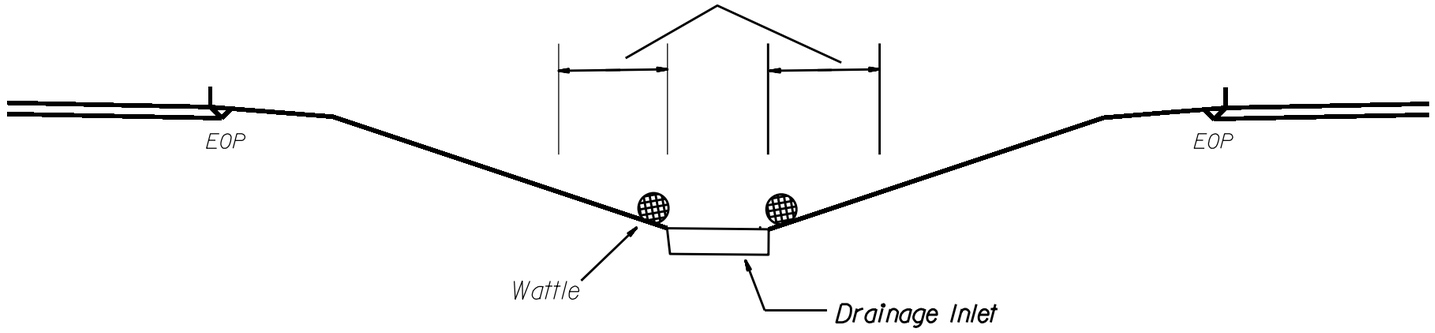
< 5' - 10' Undisturbed buffer from ditchline, add BMP



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

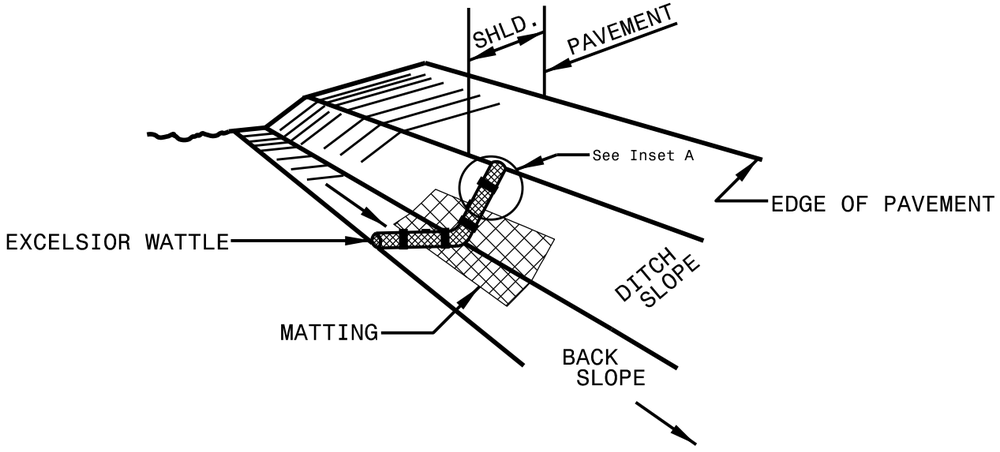


< 5' - 10' Undisturbed buffer from inlet, add wattle

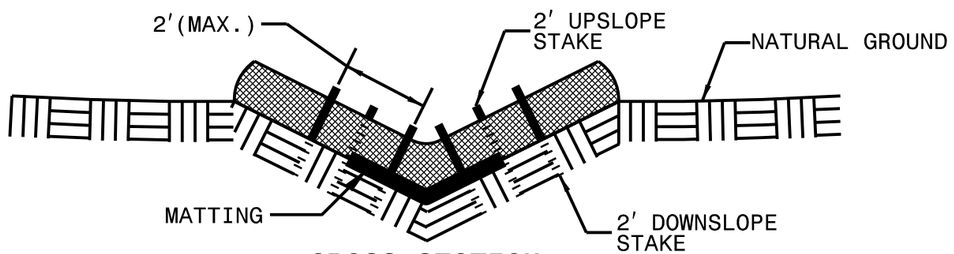


NOT TO SCALE

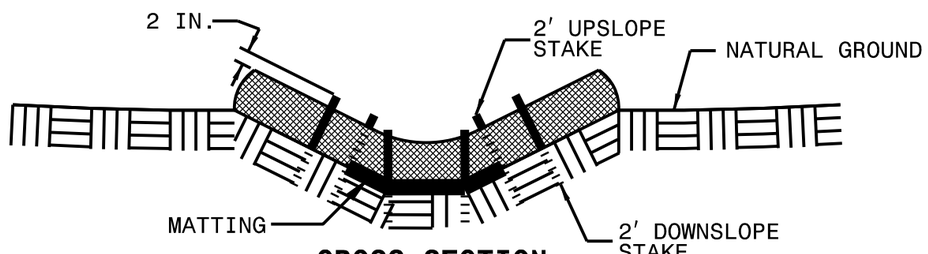
WATTLE DETAIL



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.

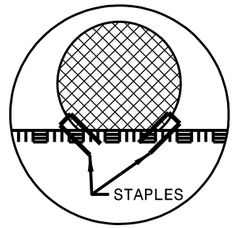
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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

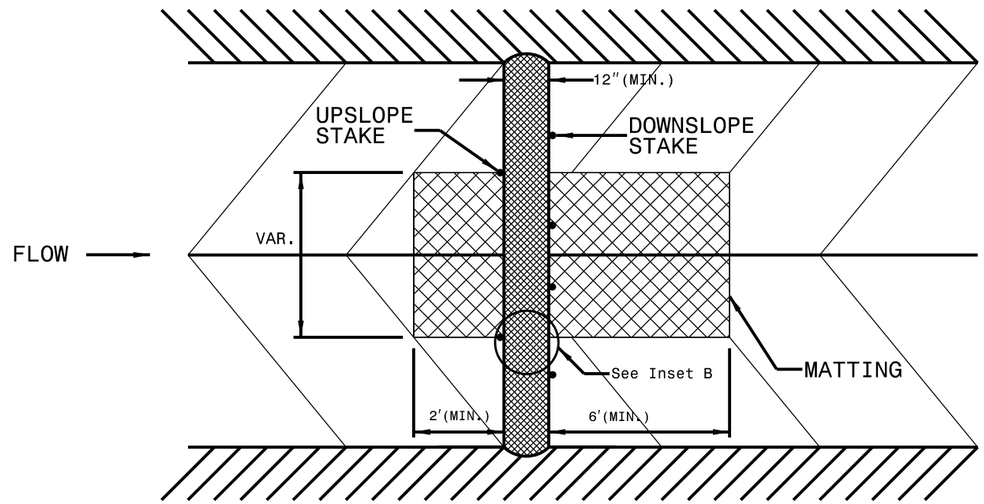
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

INSET A



INSET B



TOP VIEW