

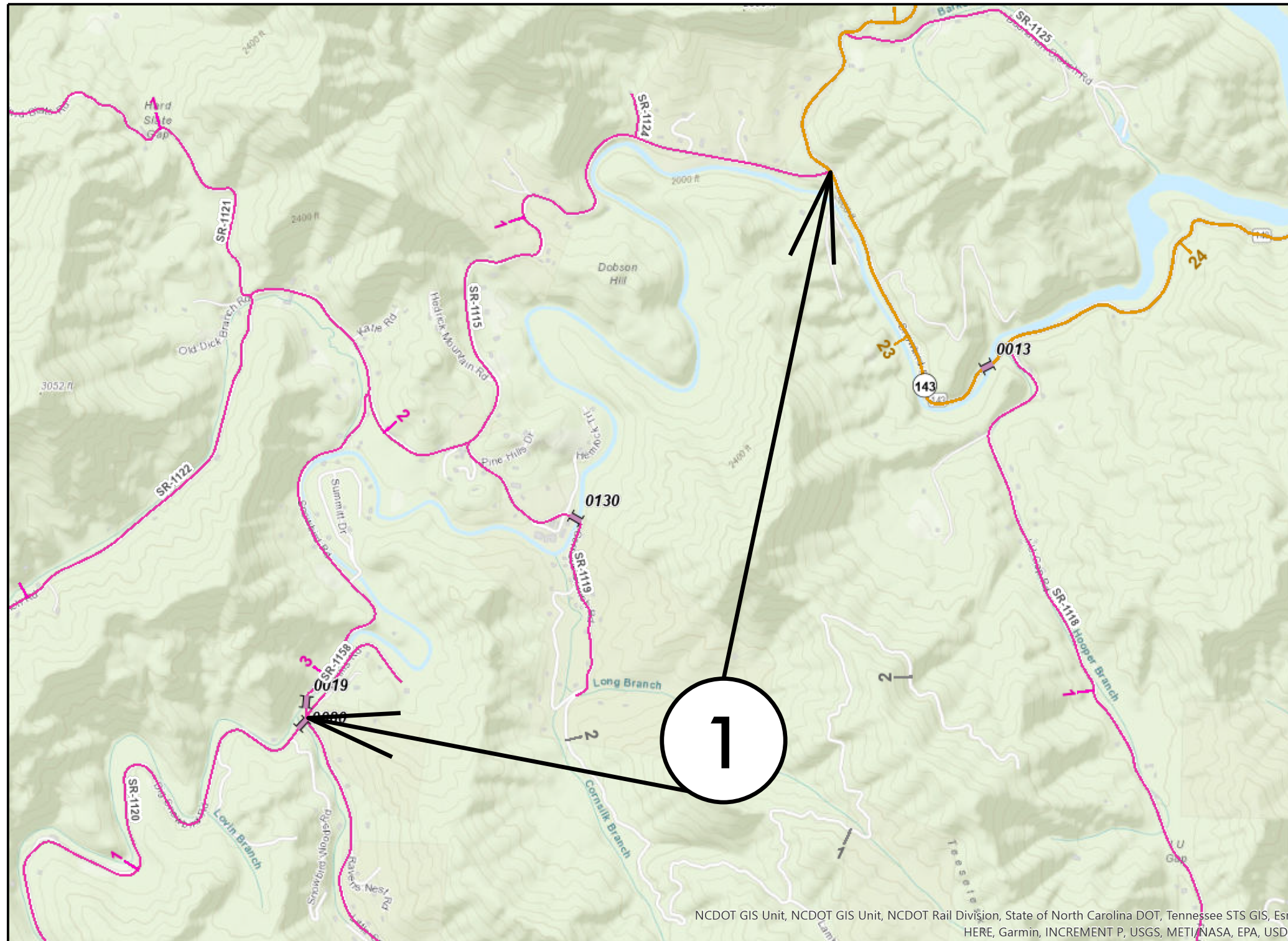
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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.14.04.20381	1	10
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
2025CPT.14.04.20871			

# GRAHAM COUNTY



## MAP 1



BEG



END

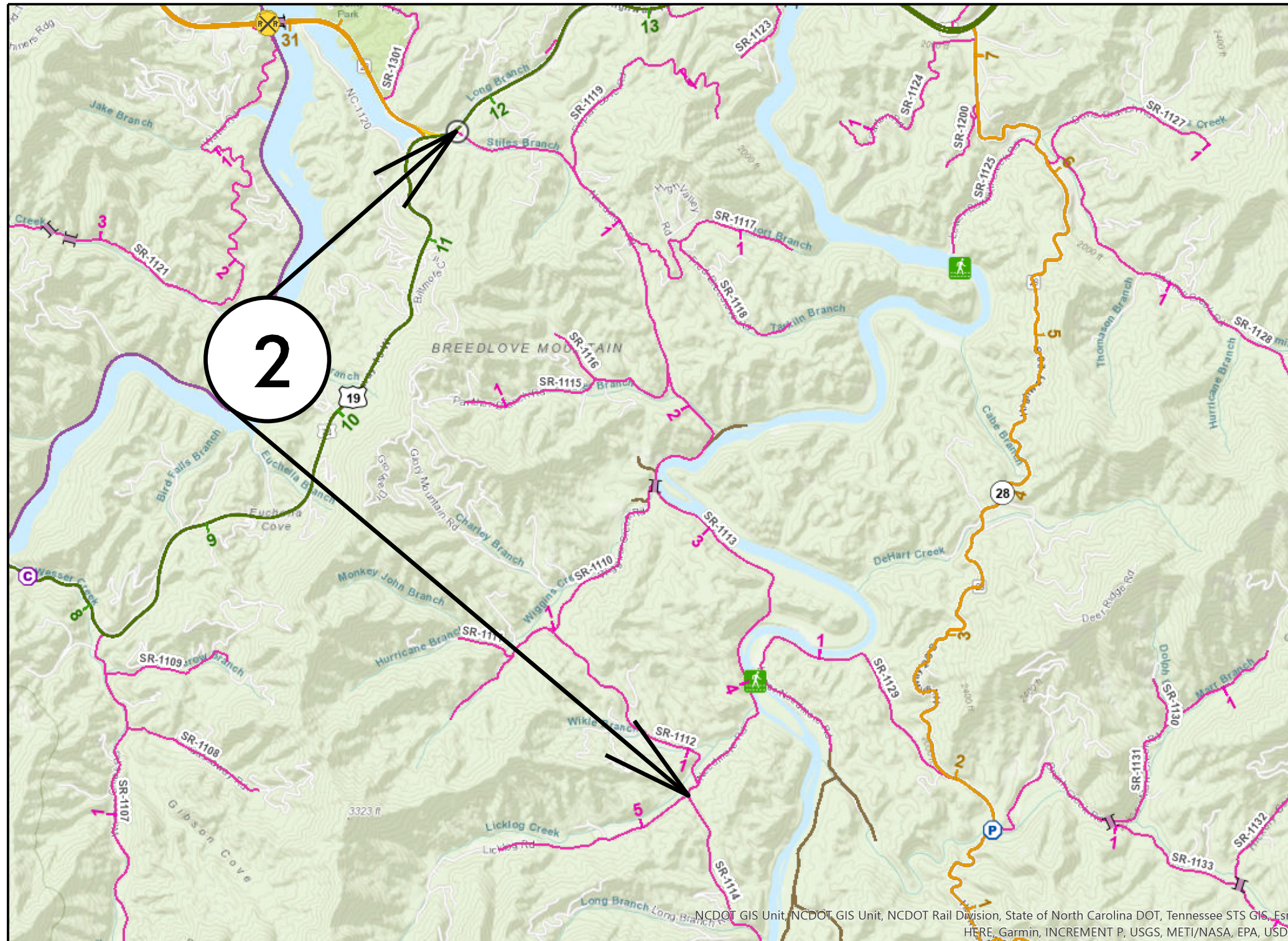
NCDOT GIS Unit, NCDOT GIS Unit, NCDOT Rail Division, State of North Carolina DOT, Tennessee STS GIS, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

CONTRACT: DN01068

09/08/09

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.14.04.20871	2	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

# SWAIN COUNTY



## MAP 2



BEG

END

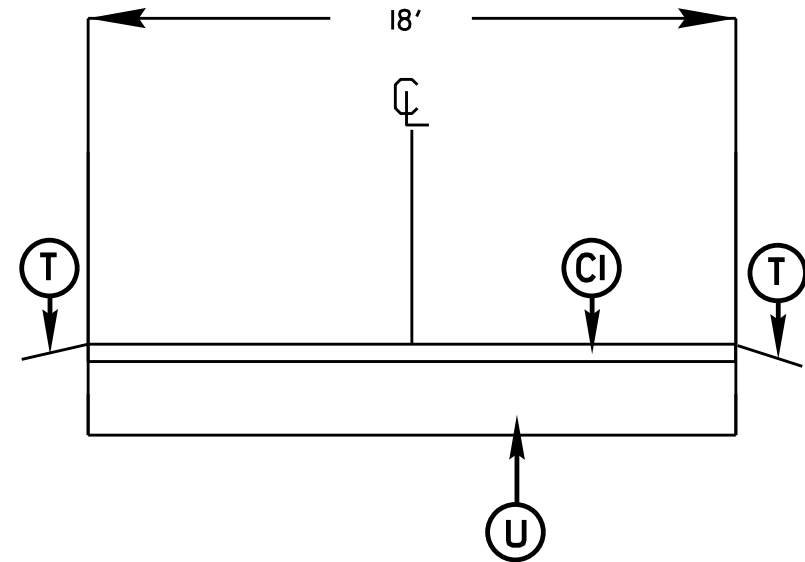
CONTRACT: DN01068

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.14.04.20381	3	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
2025CPT.14.04.20871			

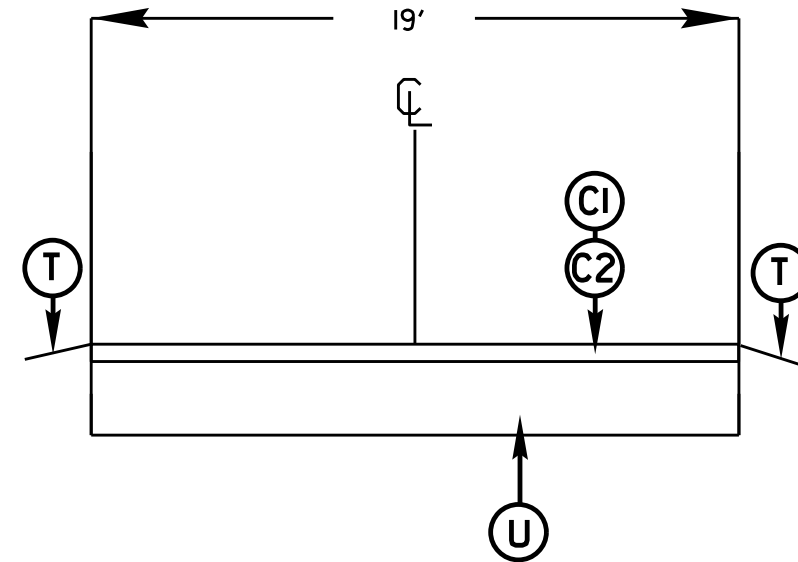
## SURFACING SCHEDULE

ITEM NO	DESCRIPTION
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 137.5 LBS.PER.SQ.YD
C2	PROP. ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B (USED AS WEDGING) WIDTH, DEPTH AND AREAS DIRECTED BY PROJECT ENGINEER
T	SHOULDER RECONSTRUCTION WITH ASB. 2' WIDE UNLESS DIRECTED BY PROJECT ENGINEER - SEE PROJECT SPECIAL PROVISIONS -
U	EXISTING ASPHALT

### TYPICAL 1



### TYPICAL 1



CONTRACT: DN01068

09/08/09



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.14.04.20381	5	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
2025CPT.14.04.20871			

**Bridge Structure Table**

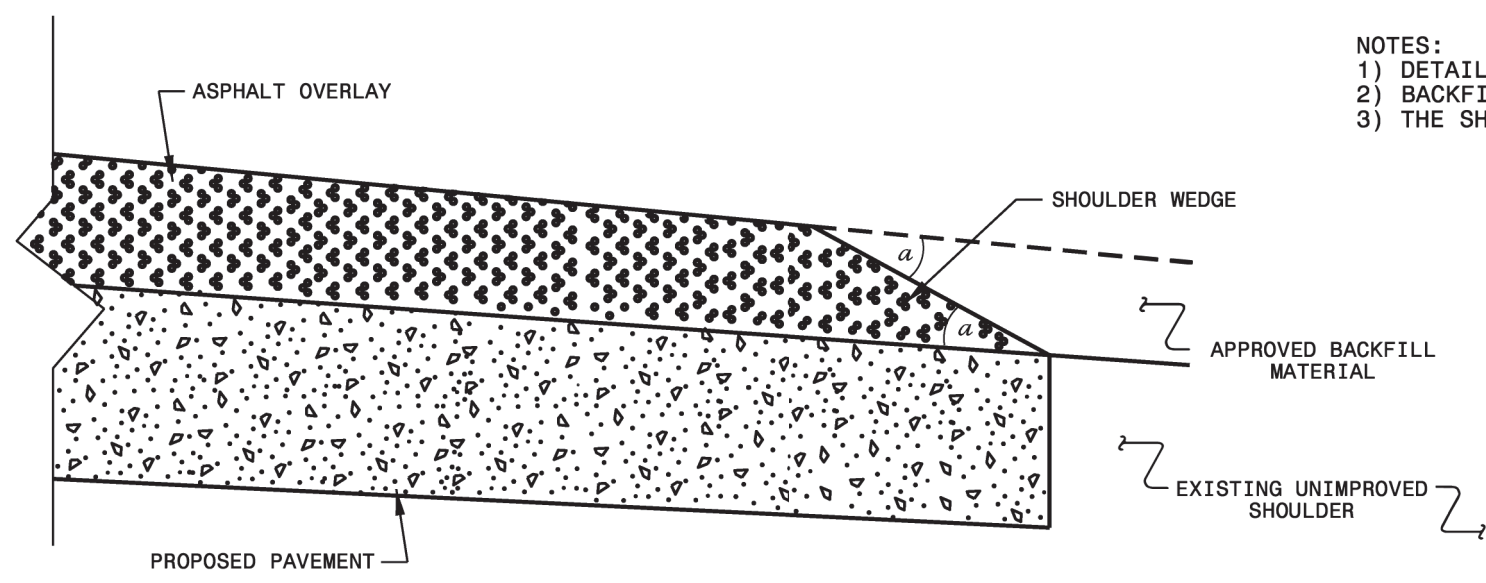
Map #	Route No.	Road Name	County	Structure No.	Posted SV (Tons)	Posted TTST (Tons)	Paving Across Bridge
3	SR 1115	Snowbird Rd	Graham	370019	99	99	Yes*
4	SR 1113	Needmore Rd	Swain	860055	99	99	Yes*

\* Incidental milling quantities included for bridge

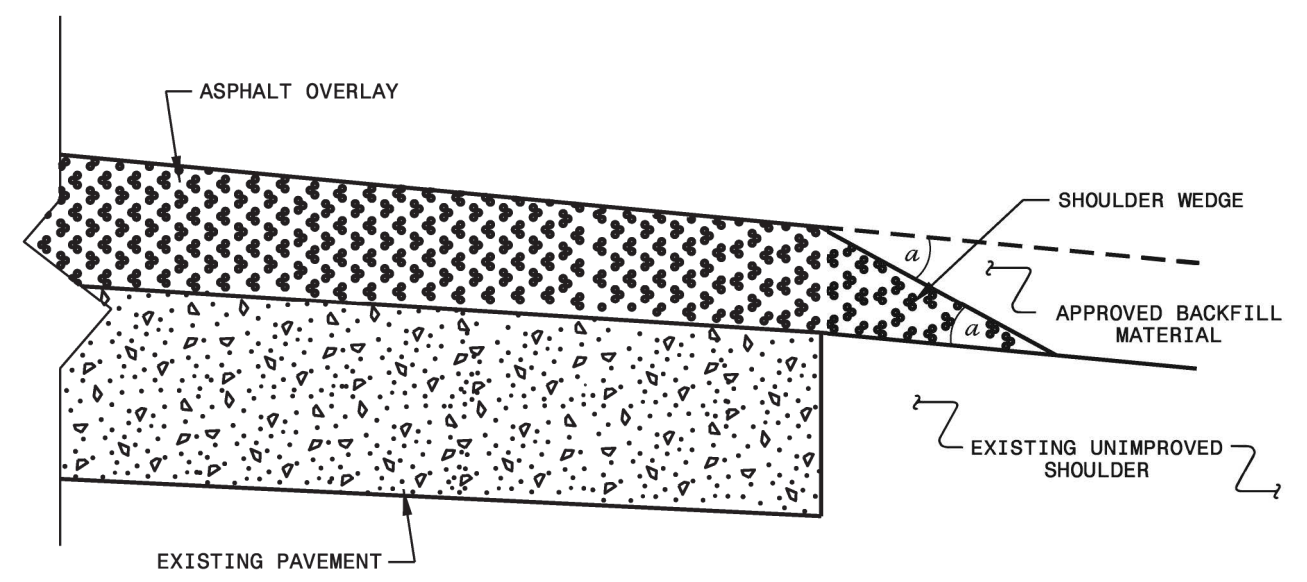
**CONTRACT: DN01068**

09/08/09

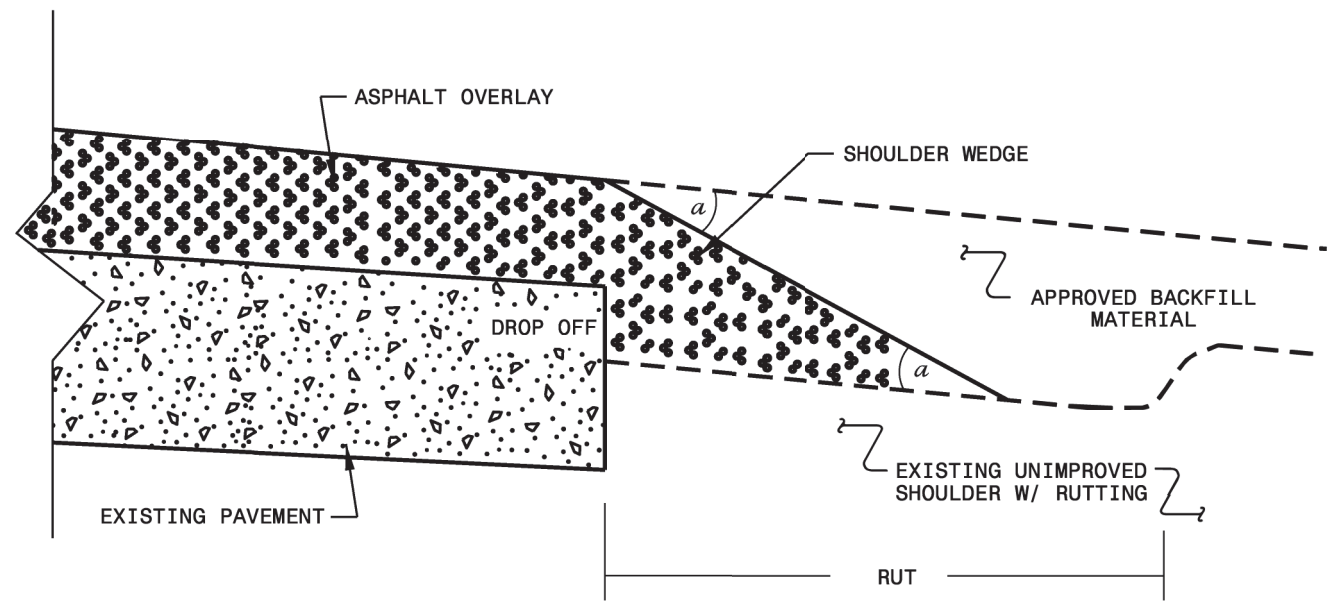
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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

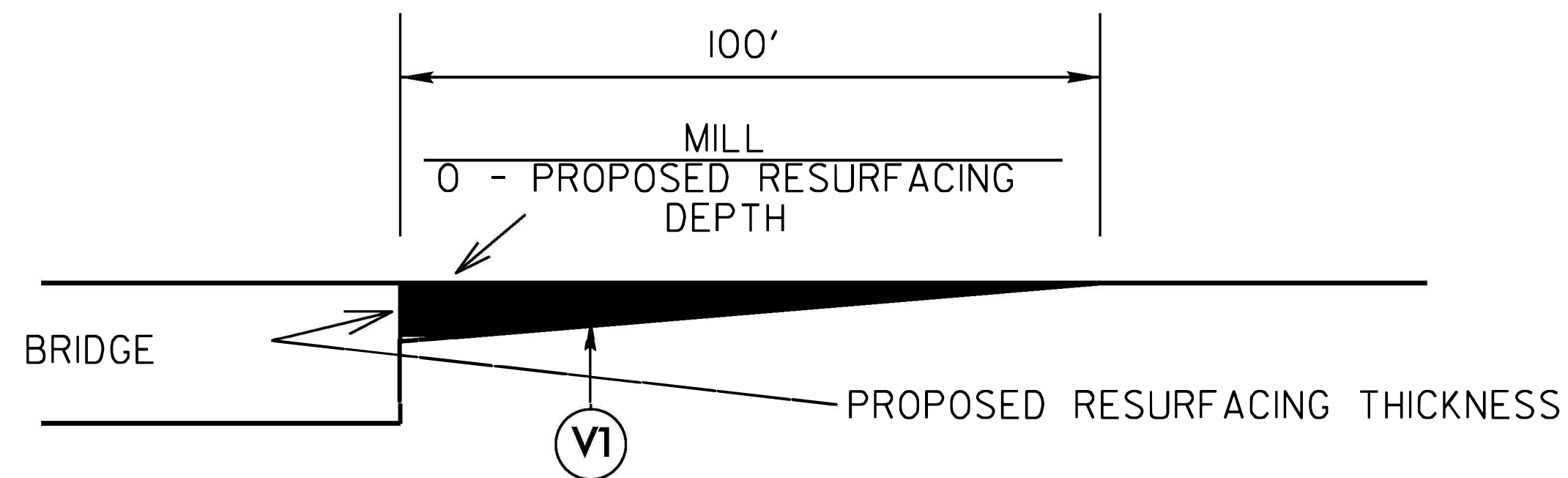
**SHOULDER WEDGE  
 DETAILS**

ORIGINAL BY: T.SPELL DATE: 7-19-11  
 MODIFIED BY: DATE: 10/16/12  
 CHECKED BY: DATE:  
 FILE SPEC.: s:\usr\det\_alls\stand\shoulderwedetail.dwg

CONTRACT: DN01068

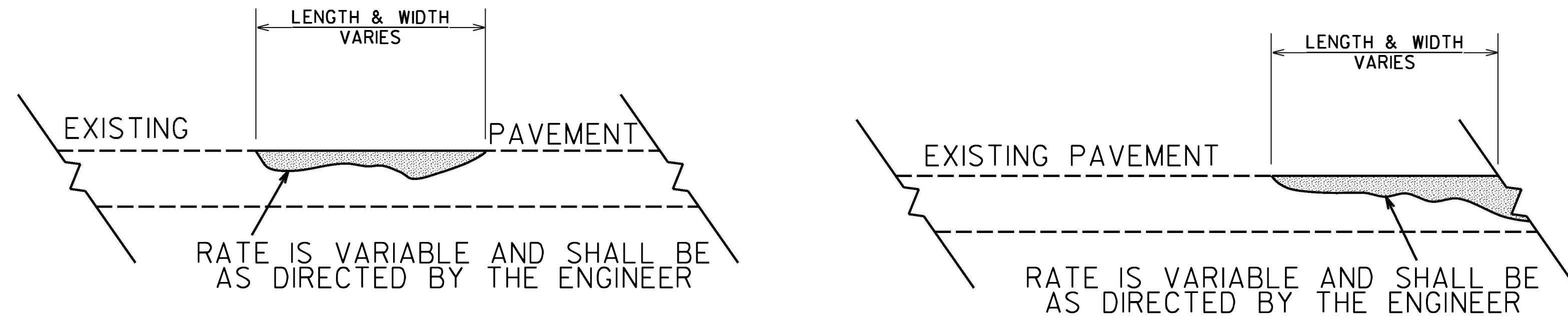
SYSTEMS CONDITIONING  
 CONSULTING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2025CPT.14.04.20381	7	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
2025CPT.14.04.10871			



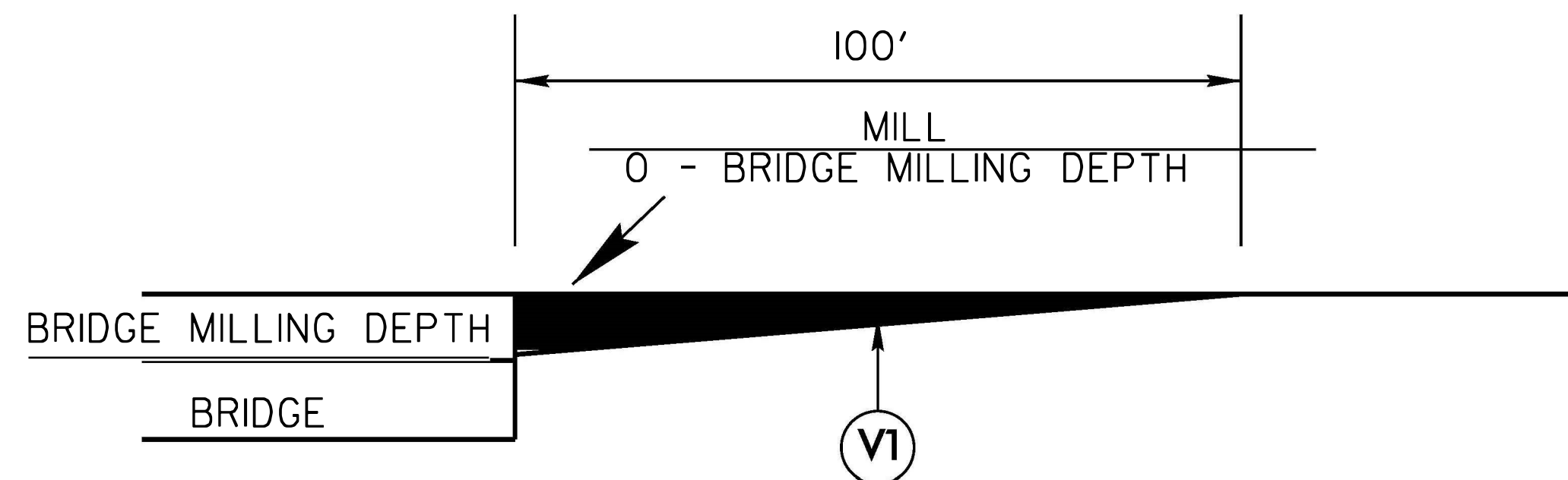
**MILLING DETAIL AT BRIDGE APPROACHES**

**WHERE BRIDGES WILL NOT BE RESURFACED. THIS WILL BE PAID FOR AS 0"- 1 1/2" MILLING.**



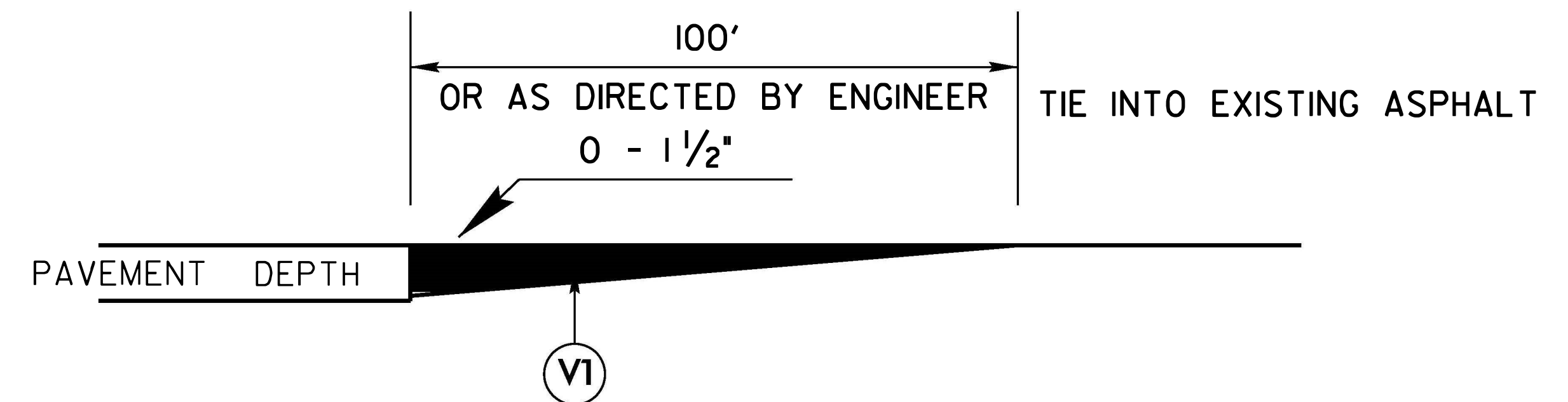
**DETAIL SHOWING METHOD OF WEDGING**

**\*PROPOSED WEDGE COURSE\* ( 114 LBS PER SQ YARD PER 1" DEPTH)**



**MILLING DETAIL AT BRIDGE APPROACHES**

**WHERE BRIDGES WILL BE MILLED THEN RESURFACED. THIS WILL BE PAID FOR AS 0"- 1 1/2" MILLING.**



**DETAIL TO TIE INTO EXIST PAVEMENT**

**THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT HE WILL BE REQUIRED TO MILL THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END AND Y LINES OF EACH MAP. THIS WILL BE PAID FOR AS 0-1 1/2" MILLING.**

CONTRACT: DN01068



PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.14.04.20381	8	
2025CPT.14.04.20871		

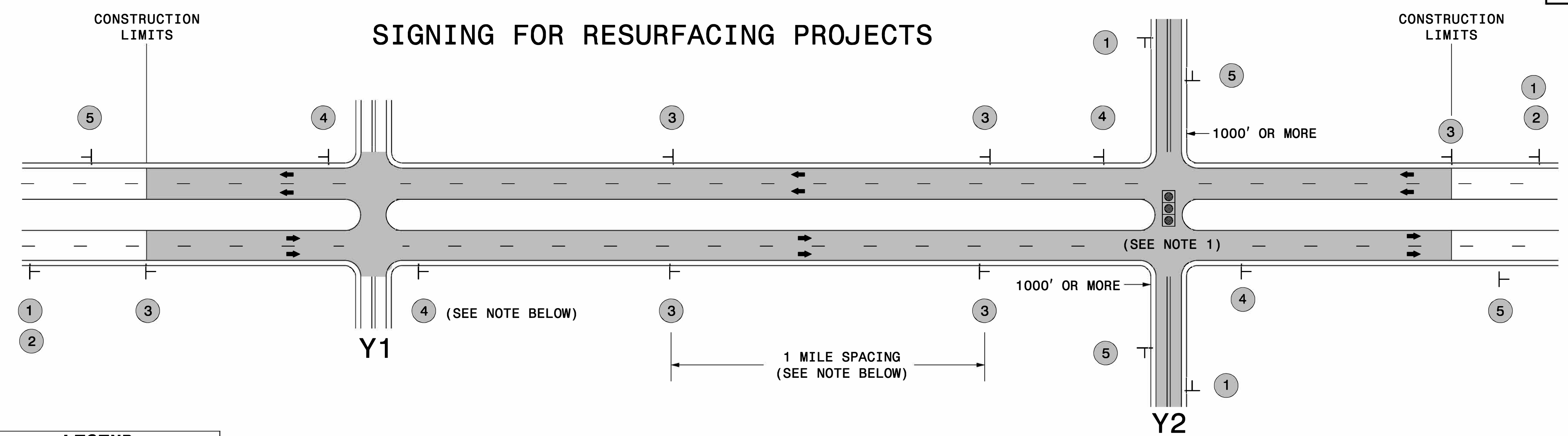
## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BEGIN MP	END MP	1245000000-E	1260000000-E	1330000000-E	1519000000-E	1520000000-E	1575000000-E	1704000000-E
														SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT
														SMI	TON	SY	TONS	TONS	TONS	TONS
2025CPT.14.04.20381	Graham	1	SR-1115 / SNOWBIRD RD	FROM NC 143 TO SR 1120	1	2	2WU	NO	NO	3.12	18	0	3.12	6.24	1,030	400	1,150	2,273	177	616
<b>TOTAL FOR MAP NO. 1</b>										<b>3.12</b>				<b>6.24</b>	<b>1,030</b>	<b>400</b>	<b>1,150</b>	<b>2,273</b>	<b>177</b>	<b>616</b>
<b>TOTAL FOR PROJ NO. 2025CPT.14.04.20381</b>										<b>3.12</b>				<b>6.24</b>	<b>1,030</b>	<b>400</b>	<b>1,150</b>	<b>2,273</b>	<b>177</b>	<b>616</b>
2025CPT.14.04.20871	Swain	2	SR-1113 / NEEDMORE RD	FROM SR 1113 TO SR 1114	2	2	2WU	NO	NO	4.72	19	0	4.72	9.44	2,832	148	1,150	3,812	323	
<b>TOTAL FOR MAP NO. 2</b>										<b>4.72</b>				<b>9.44</b>	<b>2,832</b>	<b>148</b>	<b>1,150</b>	<b>3,812</b>	<b>323</b>	
<b>TOTAL FOR PROJ NO. 2025CPT.14.04.20871</b>										<b>4.72</b>				<b>9.44</b>	<b>2,832</b>	<b>148</b>	<b>1,150</b>	<b>3,812</b>	<b>323</b>	
<b>GRAND TOTAL</b>										<b>7.84</b>				<b>15.68</b>	<b>3,862</b>	<b>548</b>	<b>1,150</b>	<b>6,085</b>	<b>500</b>	<b>616</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.14.04.20381	9	
2025CPT.14.04.20871		

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4890000000-E	4890000000-E	4890000000-E
												WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	WHITE HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, 4", 50 MIL	YELLOW HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, 4", 50 MIL	WHITE HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, 24", 50 MIL
								MI	FT			SF	LS	LF	LF	LF
2025CPT.14.04.20381	Graham	1	SR-1115 / SNOWBIRD RD	FROM NC 143 TO SR 1120	1	2	2WU	3.12	18	0	3.12	392	0.40	32,948	32,948	40
<b>TOTAL FOR MAP NO. 1</b>								<b>3.12</b>				<b>392</b>	<b>0.40</b>	<b>32,948</b>	<b>32,948</b>	<b>40</b>
<b>TOTAL FOR PROJ NO. 2025CPT.14.04.20381</b>								<b>3.12</b>				<b>392</b>	<b>0.40</b>	<b>32,948</b>	<b>32,948</b>	<b>40</b>
2025CPT.14.04.20871	Swain	2	SR-1113 / NEEDMORE RD	FROM SR 1113 TO SR 1114	2	2	2WU	4.72	19	0	4.72	530	0.60	49,844	49,844	
<b>TOTAL FOR MAP NO. 2</b>								<b>4.72</b>				<b>530</b>	<b>0.600</b>	<b>49,844</b>	<b>49,844</b>	
<b>TOTAL FOR PROJ NO. 2025CPT.14.04.20871</b>								<b>4.72</b>				<b>530</b>	<b>0.600</b>	<b>49,844</b>	<b>49,844</b>	
<b>GRAND TOTAL</b>								<b>7.84</b>				<b>922</b>	<b>1.000</b>	<b>82,792</b>	<b>82,792</b>	<b>40</b>



**LEGEND**  
 ┆ STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW

**MAINLINE (-L-) SIGNING**

**-Y- LINE SIGNING**

SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<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><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>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;"> <div style="text-align: center;">   <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>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.</li> </ol>
		<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>	
		<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>	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

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