2026CPT.12.13.20021

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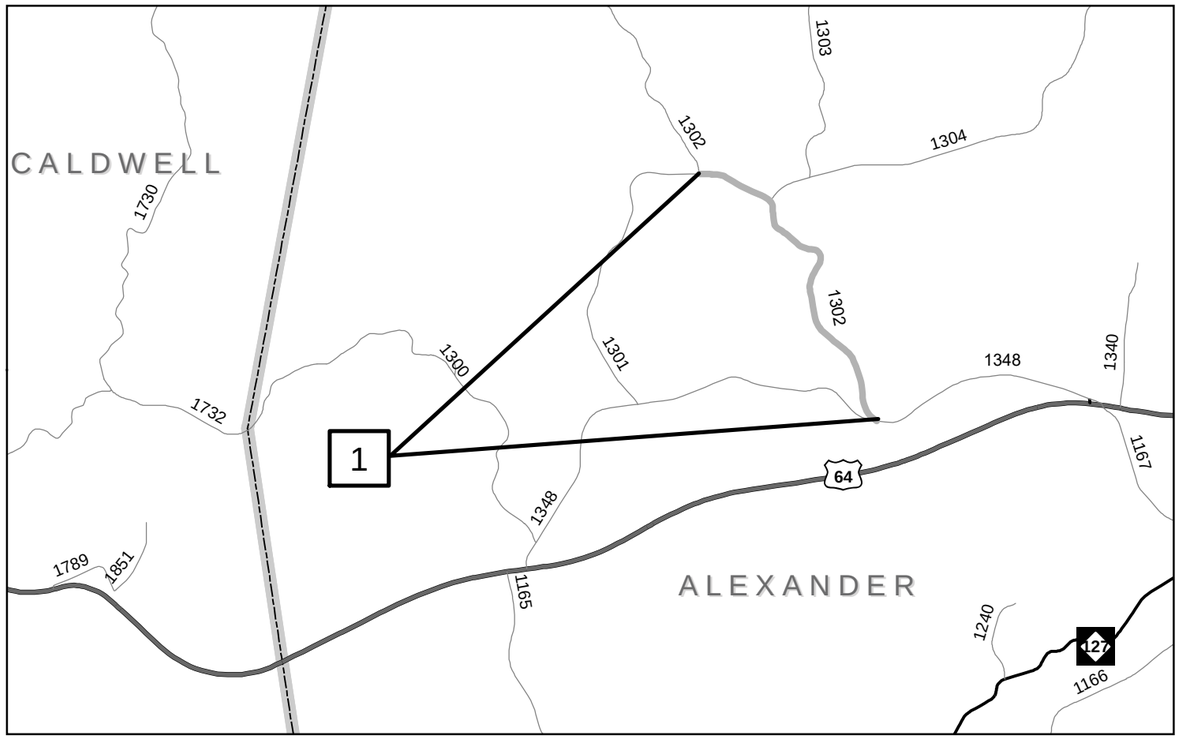
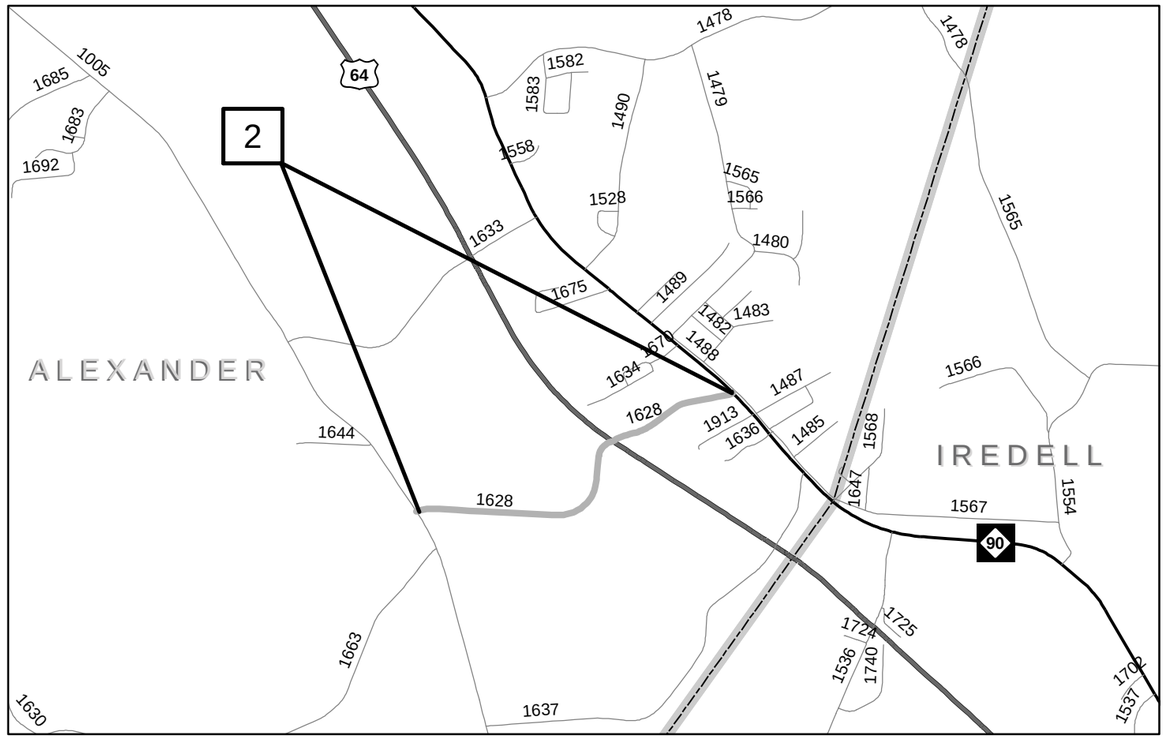
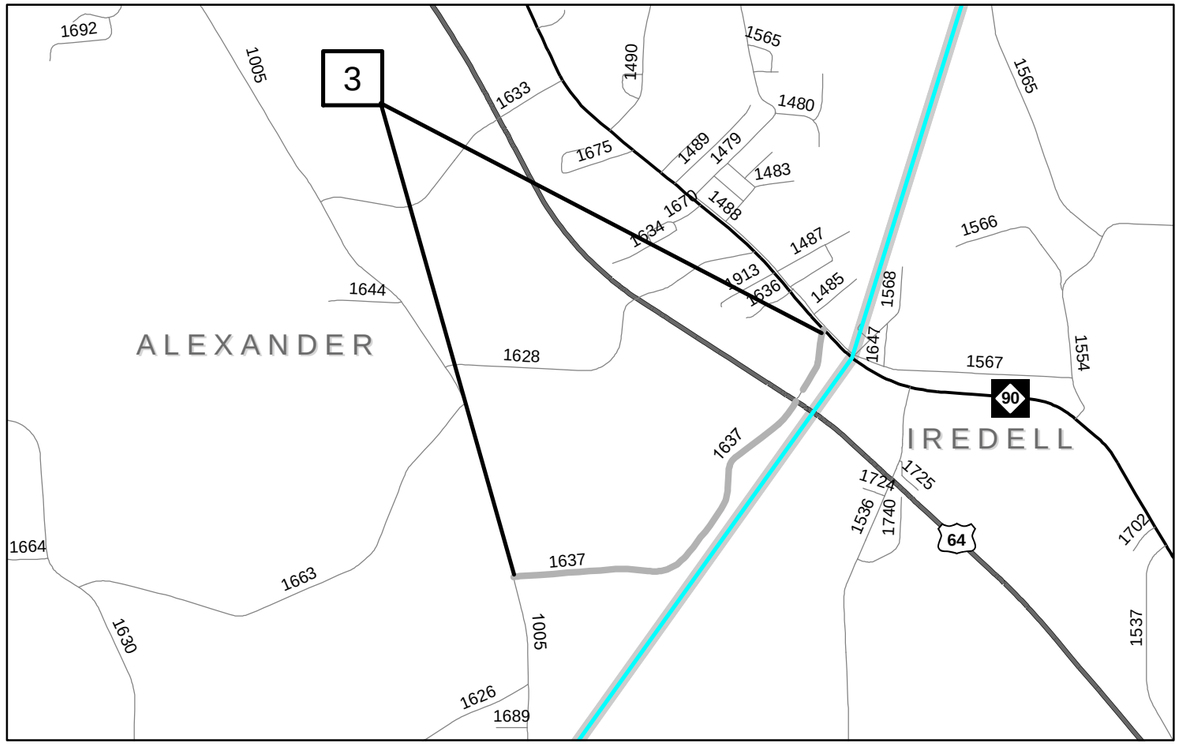
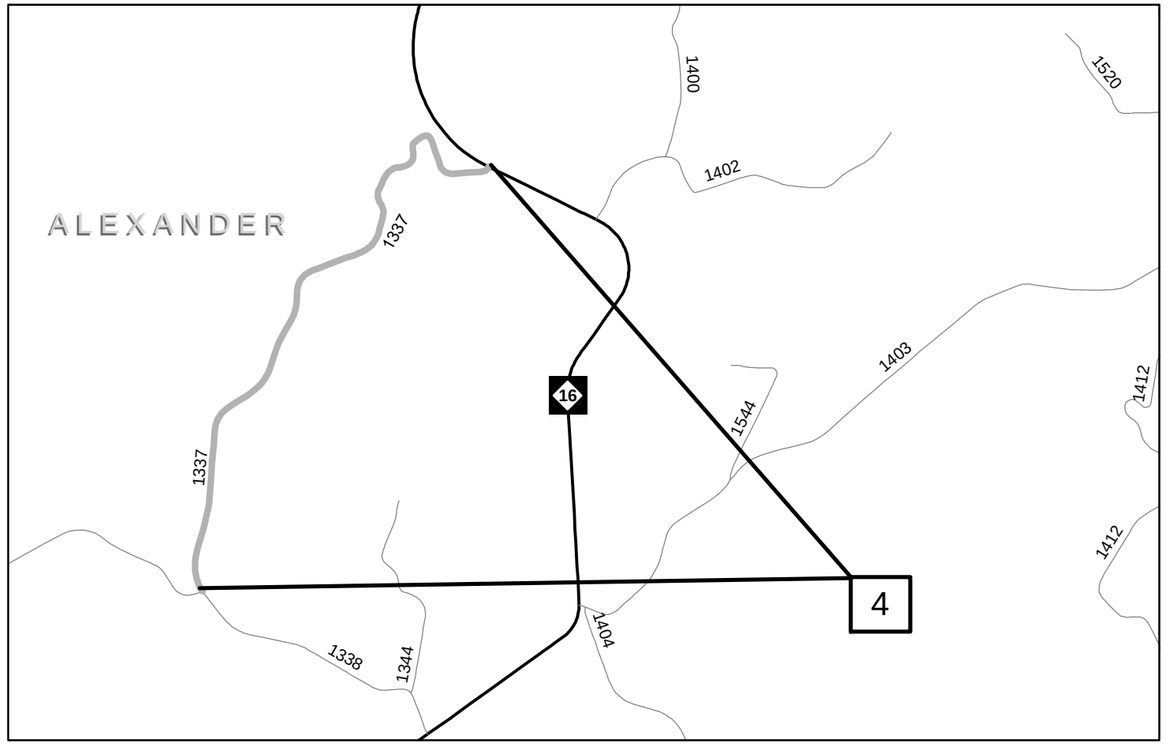
DL00356

ALEXANDER COUNTY
2026CPT.12.13.20021



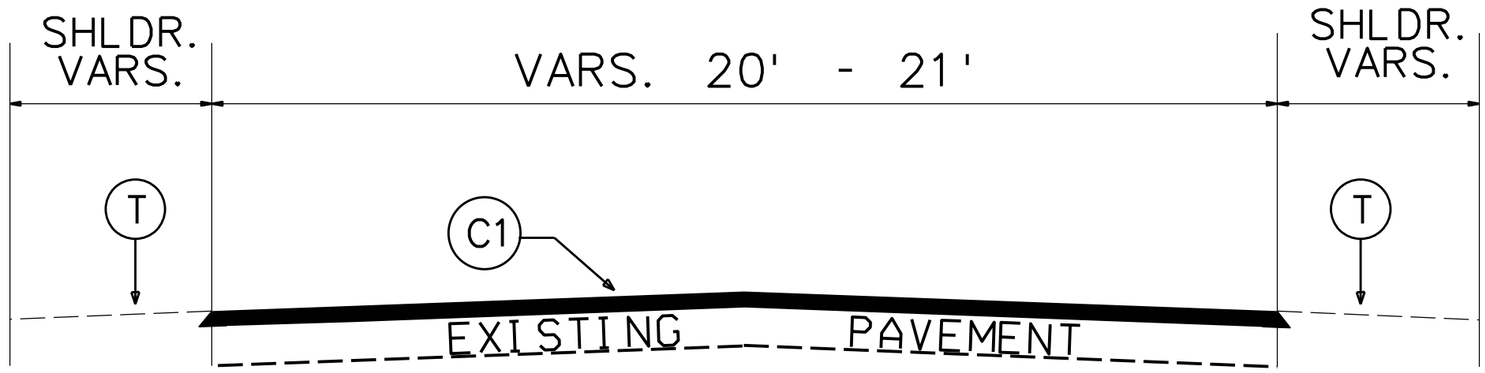






N

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
ALEXANDER COUNTY	3	8
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2026CPT.12.13.20021		SECONDARY RESURFACING



TYPICAL SECTION NO. 1

Maps 1-4 (ALL)

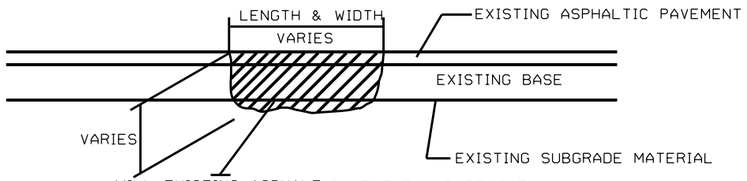
2026
Resurfacing Program
Typical Sections
Alexander County

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONCONSTRUCTION)
V1	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
ALEXANDER COUNTY	4	8
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2026CPT.12.13.20021		SECONDARY RESURFACING

DETAIL A

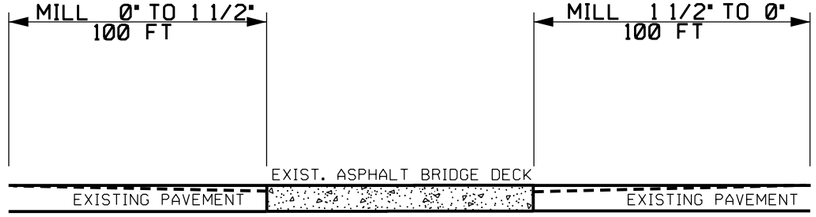
PATCHING EXISTING PAVEMENT



EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE, I19.0X AND ACSC TYPE, S9.5X AS DIRECTED BY THE ENGINEER.

DETAIL C

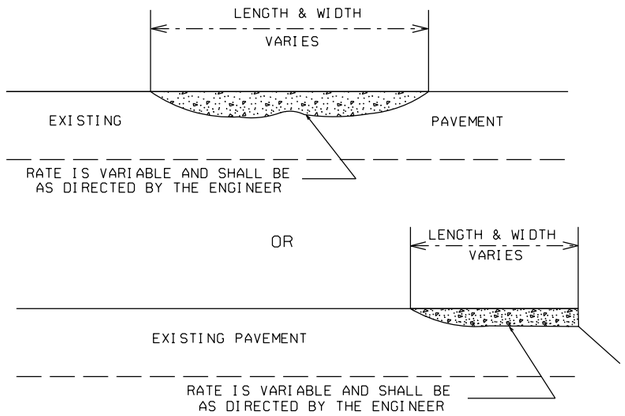
MILLING BRIDGE APPROACHES



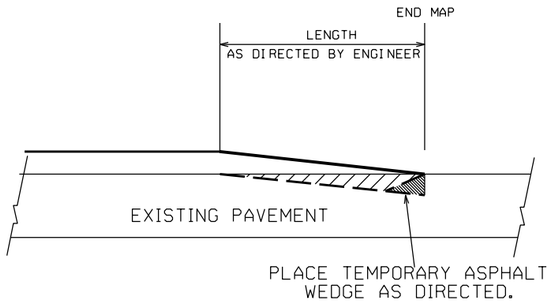
(Map 2)

DETAIL B

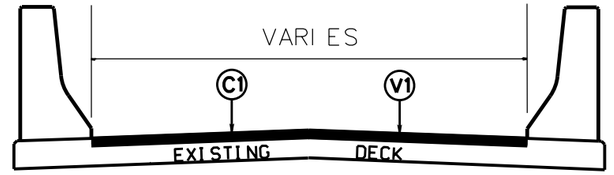
ASPHALT CONCRETE SURFACE COURSE
TYPE S9.5X (LEVELING COURSE)



2026
Resurfacing Program
Detail Sheet
Alexander County



TIE-IN (INCIDENTAL) MILLING DETAIL

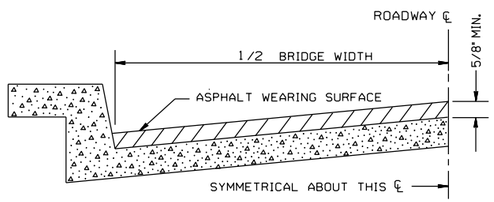


ASPHALT BRIDGE SECTION

Use for all asphalt bridges
(Map 2, 3, 4)

DETAIL E

BRIDGE HALF TYPICAL SECTION



FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

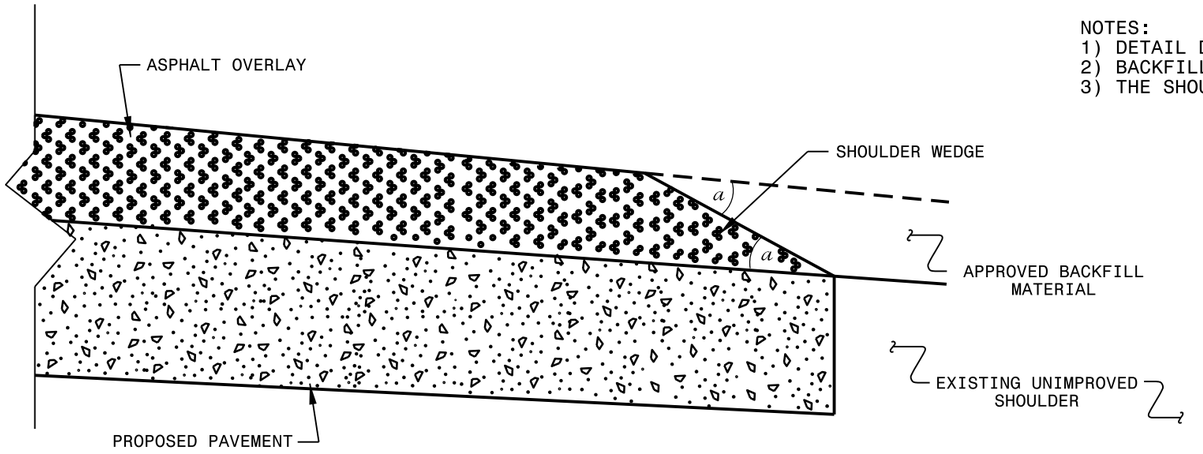
NOTES

ALL UNPAVED S.R. ROADS TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE NOTED.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONCONSTRUCTION)
V1	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH

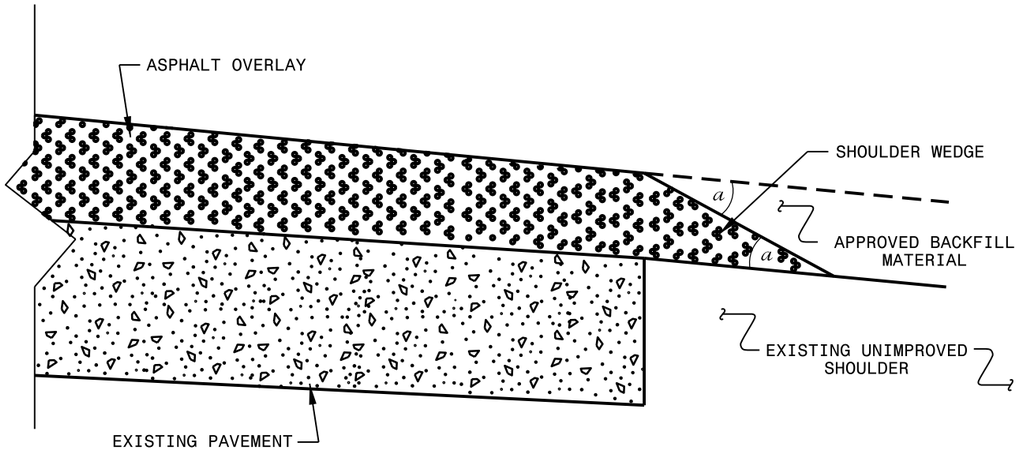
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.12.13.20021	5

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.



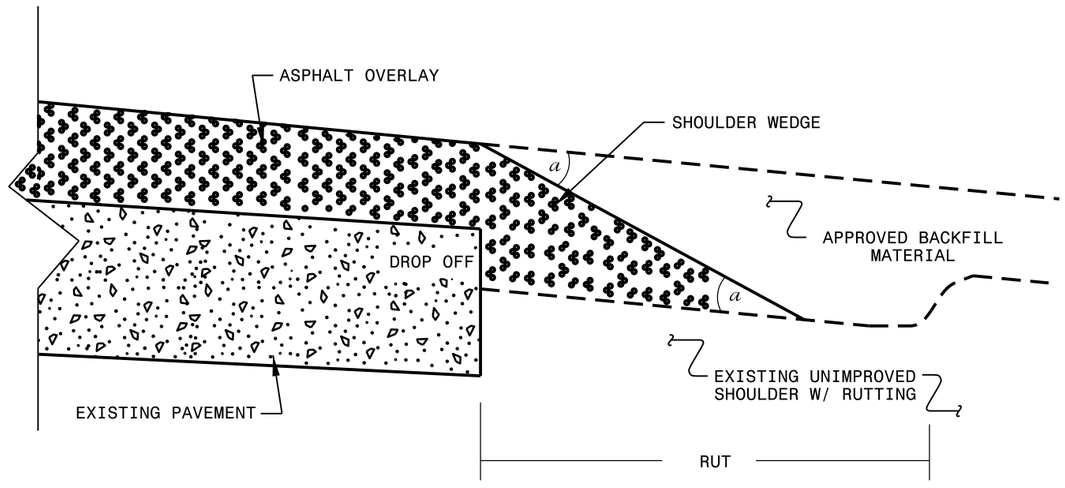
SHOULDER WEDGE DETAIL

(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°

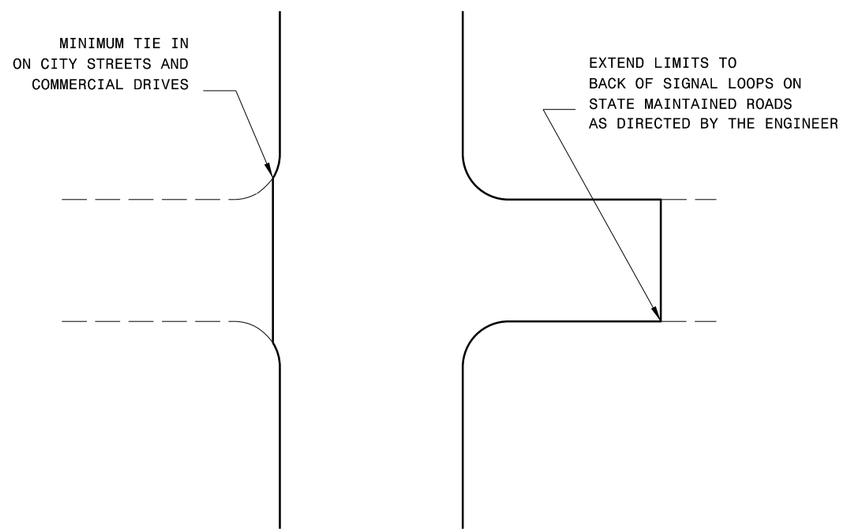
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SHOULDER WEDGE DETAILS

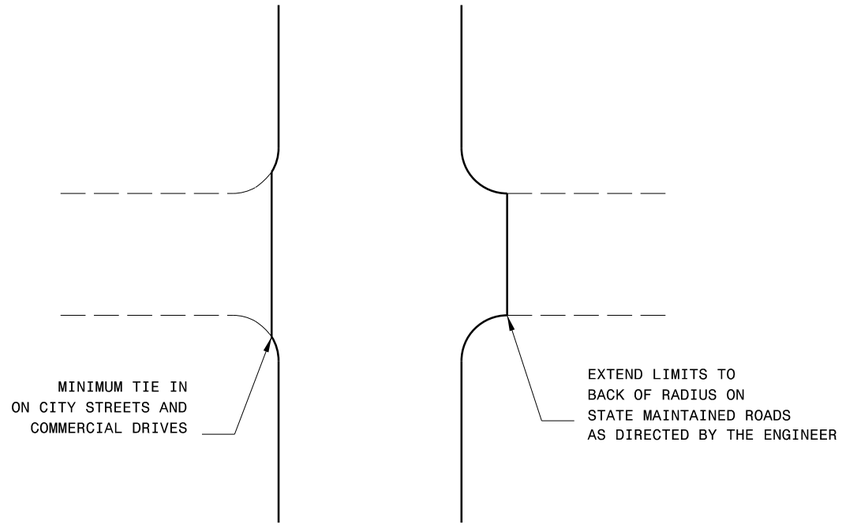
ORIGINAL BY:	T.SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	10/16/12
CHECKED BY:		DATE:	
FILE SPEC.:	s:usr/details/stand/shoulderwedgedetail.dgn		

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

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.12.13.20021	6



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)		
Extend paving limits to back of radius or loop on the following intersections:		
MAP#	STREET NAME	COMMENTS

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.12.13.20021	7	8

SUMMARY OF QUANTITIES

												0255000000-E	1220000000-E	1245000000-E	1297000000-E	1308000000-E	1330000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	2830000000-N	2845000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	AGGREGATE SHOULDER BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1½" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX
								MI	FT			TON	TONS	SMI	SY	SY	SY	TONS	TONS	TONS	TONS	EA	EA
2026CPT.12.13.20021	Alexander	1	SR-1302 / DOVER CHURCH RD	FROM SR 1348 (OLD NC 90) TO SR 1301 (BLAIR RD.)		2		1.456	20	0	1.456	480	20	2.92			20	1,585	210	109	60		
TOTAL FOR MAP NO. 1								**1.456**				**480**	**20**	**2.92**			**20**	**1,585**	**210**	**109**	**60**		
2026CPT.12.13.20021	Alexander	2	SR-1628 / HUNTER BRIDGE RD	FROM NC 90 TO SR 1005 (OLD MTN RD)	1	2		1.307	21	0	1.307	480	18	2.62	405	475	50	1,500	200	102	40		2
TOTAL FOR MAP NO. 2								**1.307**				**480**	**18**	**2.62**	**405**	**475**	**50**	**1,500**	**200**	**102**	**40**		**2**
2026CPT.12.13.20021	Alexander	3	SR-1637 / SMITH FARM RD	FROM NC 90 TO SR 1005 (OLD MTN RD)	1	2		1.606	20	0	1.606	530	22	3.22	425	450	40	1,750	135	113	40	1	2
TOTAL FOR MAP NO. 3								**1.606**				**530**	**22**	**3.22**	**425**	**450**	**40**	**1,750**	**135**	**113**	**40**	**1**	**2**
2026CPT.12.13.20021	Alexander	4	SR-1337 / SILAS DEAL RD	FROM NC 16 TO SR 1338 (ST. CLAIR RD)	1	2		1.793	20	0	1.793	590	25	3.58	235	450	20	1,950	260	132	25		
TOTAL FOR MAP NO. 4								**1.793**				**590**	**25**	**3.58**	**235**	**450**	**20**	**1,950**	**260**	**132**	**25**		
TOTAL FOR PROJ NO. 2026CPT.12.13.20021								**6.162**				**2,080**	**85**	**12.34**	**1,065**	**1,375**	**130**	**6,785**	**805**	**456**	**165**	**1**	**4**
GRAND TOTAL								**6.162**				**2,080**	**85**	**12.34**	**1,065**	**1,375**	**130**	**6,785**	**805**	**456**	**165**	**1**	**4**

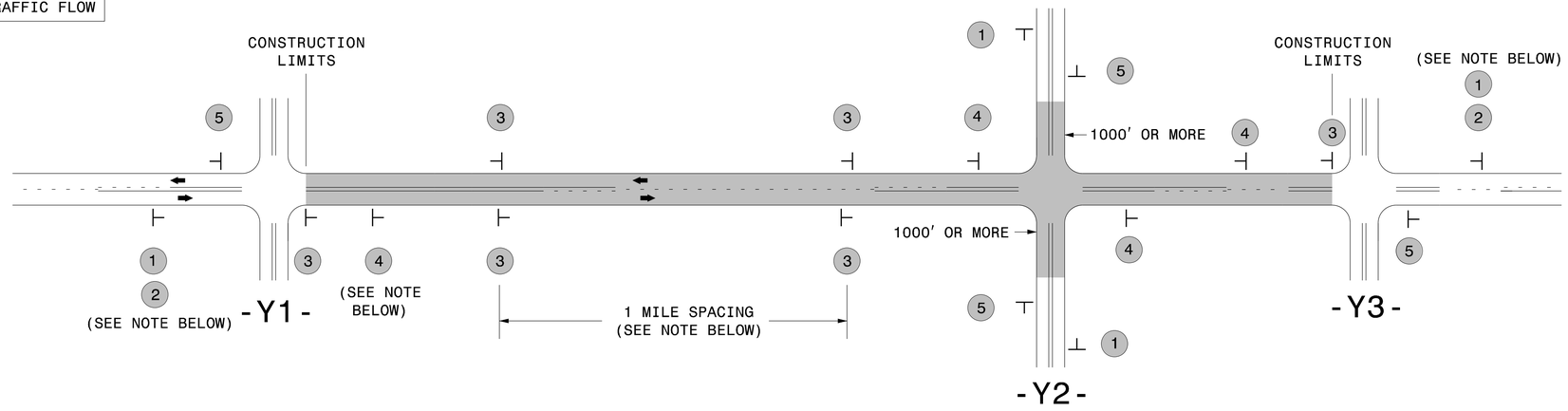
THERMOPLASTIC AND PAINT QUANTITIES

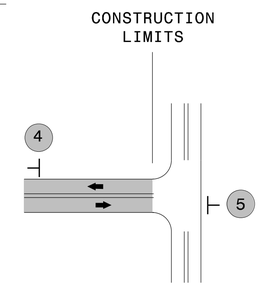
												4400000000-E	4457000000-N	4810000000-E	4810000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE		TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" YELLOW PAINT	4" WHITE PAINT
								MI	FT			SF	LS	LF	LF
2026CPT.12.13.20021	Alexander	1	SR-1302 / DOVER CHURCH RD	FROM SR 1348 (OLD NC 90) TO SR 1301 (BLAIR RD.)		2		1.456	20	0	1.456	170	1	34,000	34,000
TOTAL FOR MAP NO. 1								**1.456**				**170**	**1**	**34,000**	**34,000**
2026CPT.12.13.20021	Alexander	2	SR-1628 / HUNTER BRIDGE RD	FROM NC 90 TO SR 1005 (OLD MTN RD)	1	2		1.307	21	0	1.307	150		30,400	30,400
TOTAL FOR MAP NO. 2								**1.307**				**150**		**30,400**	**30,400**
2026CPT.12.13.20021	Alexander	3	SR-1637 / SMITH FARM RD	FROM NC 90 TO SR 1005 (OLD MTN RD)	1	2		1.606	20	0	1.606	185		37,400	37,400
TOTAL FOR MAP NO. 3								**1.606**				**185**		**37,400**	**37,400**
2026CPT.12.13.20021	Alexander	4	SR-1337 / SILAS DEAL RD	FROM NC 16 TO SR 1338 (ST. CLAIR RD)	1	2		1.793	20	0	1.793	205		41,600	41,600
TOTAL FOR MAP NO. 4								**1.793**				**205**		**41,600**	**41,600**
TOTAL FOR PROJ NO. 2026CPT.12.13.20021								**6.162**				**710**	**1.000**	**143,400**	**143,400**
GRAND TOTAL								**6.162**				**710**	**1.000**	**143,400**	**143,400**

PROJ. REFERENCE NO.	SHEET NO.
2026CPT.12.13.20021	8

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

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

2 — 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 CONSTRUCTION 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.

THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

MAPS LESS THAN 2 MILES

FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.

-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, PORTABLE ADVANCE WARNING 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

ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

5/15/2017
SATMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:keddis