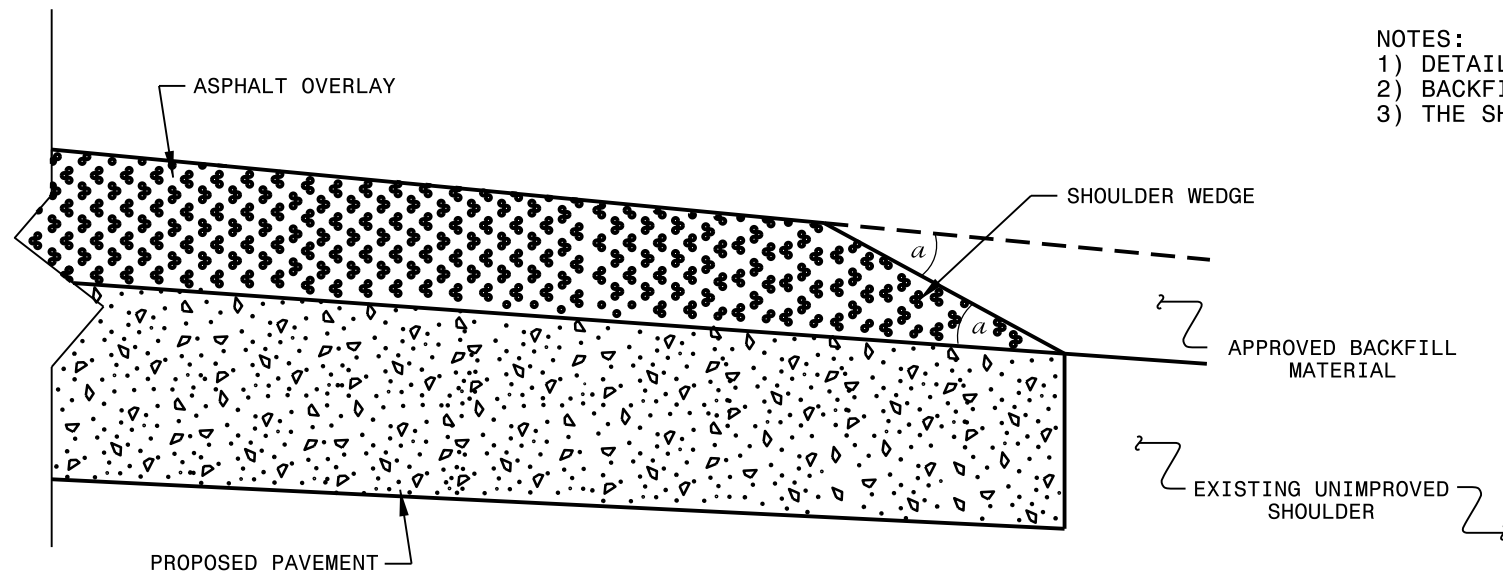
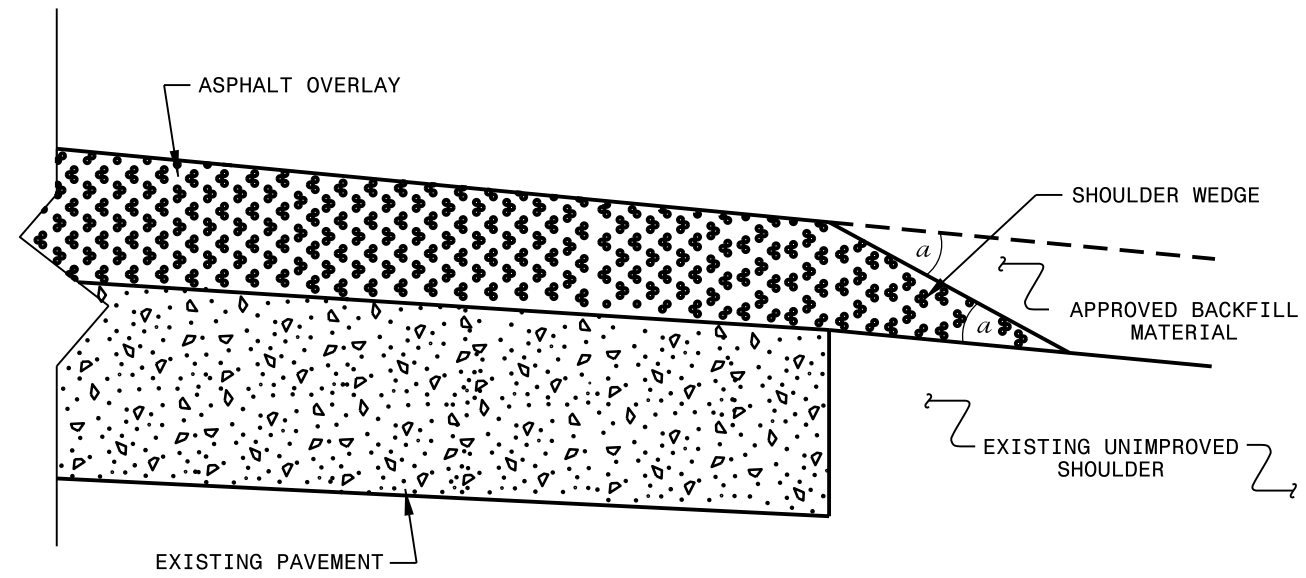


RICHMOND COUNTY

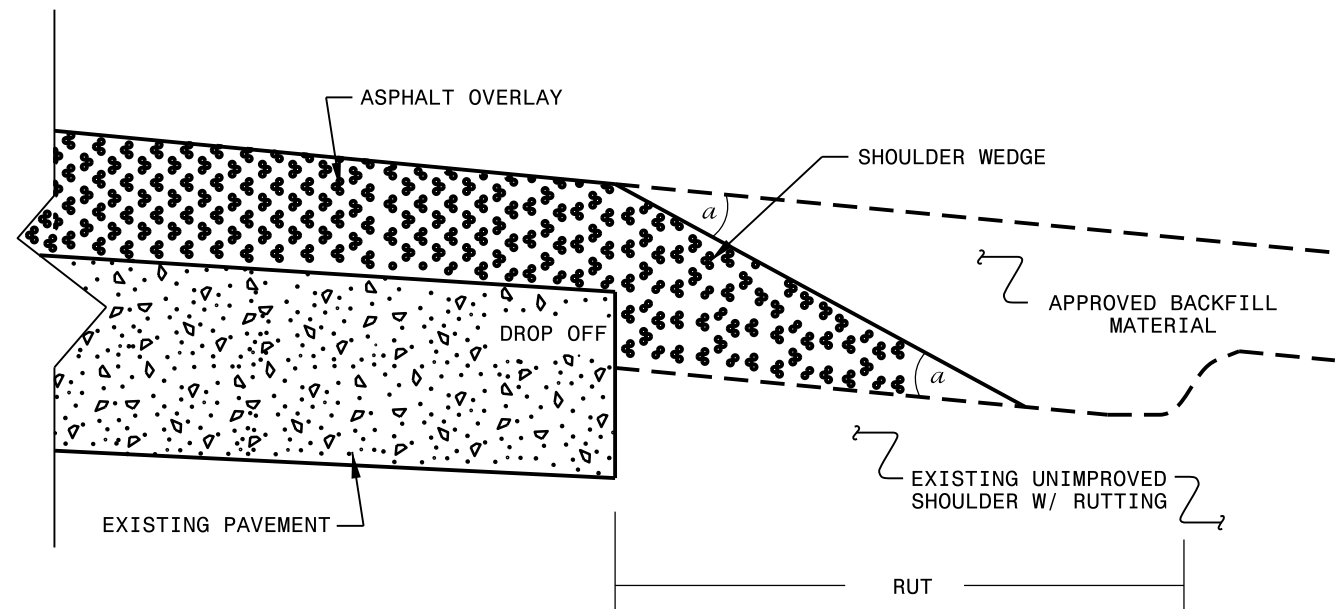
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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			

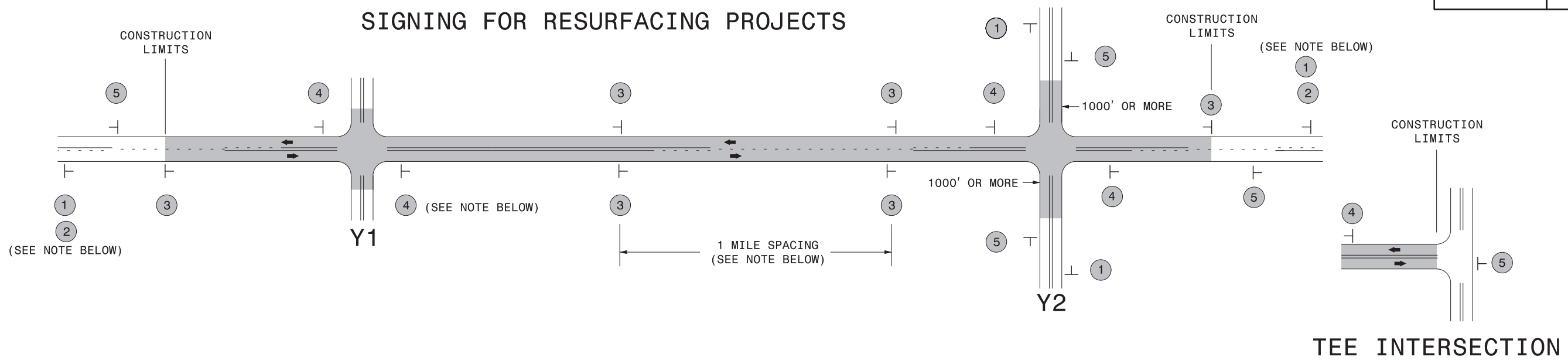
SYSTEM: 08/08/11
 USER: T.SPELL
 FILE: susr/details/stand/shoulderwedgedetail.dgn

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.08.29.10771	5	
2017CPT.08.29.20771		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	AGGREGATE SHOULDER BORROW TON	SHOULDER RECONSTRUCTION SMI	1.5" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TON	SURFACE COURSE, S4.75A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, SINGLE SEAL SY	EMULSION FOR ASPHALT SURFACE TREATMENT GAL	VACUUM TRUCK WK
2017CPT.08.29.10771	Richmond	1	NC 38	FROM SC LINE TO BEG. DIVIDE	1	2	2WU	NO	NO	3.47	21	971.00	6.94		100	3,975			238				
TOTAL FOR MAP NO. 1										3.47		971.00	6.94		100	3,975			238				
2017CPT.08.29.10771	Richmond	2	NC 381	FROM SCOTLAND CO LINE TO SR 1615	1	2	2WU	NO	NO	2.92	21	820.00	5.84		100	3,345			201				
TOTAL FOR MAP NO. 2										2.92		820.00	5.84		100	3,345			201				
TOTAL FOR PROJ NO. 2017CPT.08.29.10771										6.39		1,791.00	12.78		200	7,320			439				
2017CPT.08.29.20771	Richmond	3	SR 1606 (FOX RD)	FROM NC 177 TO US 1	2	2	2WD	NO	NO	3.33	20	933.00	6.66		60		2,960		198	25	39,083.00	13,680	1
TOTAL FOR MAP NO. 3										3.33		933.00	6.66		60		2,960		198	25	39,083.00	13,680	1
2017CPT.08.29.20771	Richmond	4	SR 1605 (COGNAC RD)	FROM NC 177 TO US 1	3	2	2WD	NO	NO	1.94	20	544.00	3.88		60	2,105			126	12	22,727.00	7,955	1
TOTAL FOR MAP NO. 4										1.94		544.00	3.88		60	2,105			126	12	22,727.00	7,955	1
2017CPT.08.29.20771	Richmond	5	SR 1808 (MCGIRT RD)	FROM SR 1615 (E. MAIN ST) TO SR 1807 (OAK RIDGE CH. RD)	2	2	2WU	NO	NO	1.25	21	350.00	2.50		60		1,170		78		15,459.00	5,411	1
TOTAL FOR MAP NO. 5										1.25		350.00	2.50		60		1,170		78		15,459.00	5,411	1
2017CPT.08.29.20771	Richmond	6	SR 1623 (CAMPBELL RD)	FROM SR 1608 (MANHATTAN ST) TO SR 1688 (ATKINSON ST)	4	2	2WD	NO	NO	1.16	20	325.00	2.32		150			570	39	287			
TOTAL FOR MAP NO. 6										1.16		325.00	2.32		150			570	39	287			
2017CPT.08.29.20771	Richmond	7	SR 1475 (MCDONALD CH RD)	FROM JOINT AT US 1 TO PAVEMENT CHANGE	5	2	2WD	NO	NO	0.92	22			12,667	239	1,175			71				
TOTAL FOR MAP NO. 7										0.92				12,667	239	1,175			71				
2017CPT.08.29.20771	Richmond	8	SR 1442 (LEDBETTER RD)	FROM PAVEMENT JOINT NEAR US 1 TO SR 1489 (GRAHAM BRIDGE RD)	6	2	2WU	NO	NO	0.12	22	34.00	0.24		183		165		11				
TOTAL FOR MAP NO. 8										0.12		34.00	0.24		183		165		11				
2017CPT.08.29.20771	Richmond	9	SR 1003 (CADDELL RD)	FROM SR 1475 (MCDONALD CH RD) TO CITY LIMITS OF HOFFMAN	7	2	2WD	NO	NO	0.62	24	175.00	1.24		151	815			49	1			
TOTAL FOR MAP NO. 9										0.62		175.00	1.24		151	815			49	1			
TOTAL FOR PROJ NO. 2017CPT.08.29.20771										9.34		2,361.00	16.84	12,667	903	4,095	4,295	570	572	325	77,269.00	27,046	3
GRAND TOTAL										15.73		4,152.00	29.62	12,667	1,103	11,415	4,295	570	1,011	325	77,269.00	27,046	3

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	<p>W20-1 48" X 48"</p>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <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> <p>W20-1 48" X 48"</p> <p>W20-7 A 48" X 48"</p> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	<p>W7-3aP 24" X 18"</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)	
	3	<p>SP 13107 48" X 48"</p>	<ul style="list-style-type: none"> - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
	4	<p>SP 13106 48" X 48"</p>	<ul style="list-style-type: none"> - 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	<p>G20-2 A 48" X 24"</p>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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