

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION 6

PLANS

Letting Date: September 2, 2026

CONTRACT ID: DF00560

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2027CPT.06.02.20241.1

ROUTE NO.: VARIOUS

LOCATION: VARIOUS

COUNTY: COLUMBUS

LENGTH OF PROJECT: 10.05 MILES

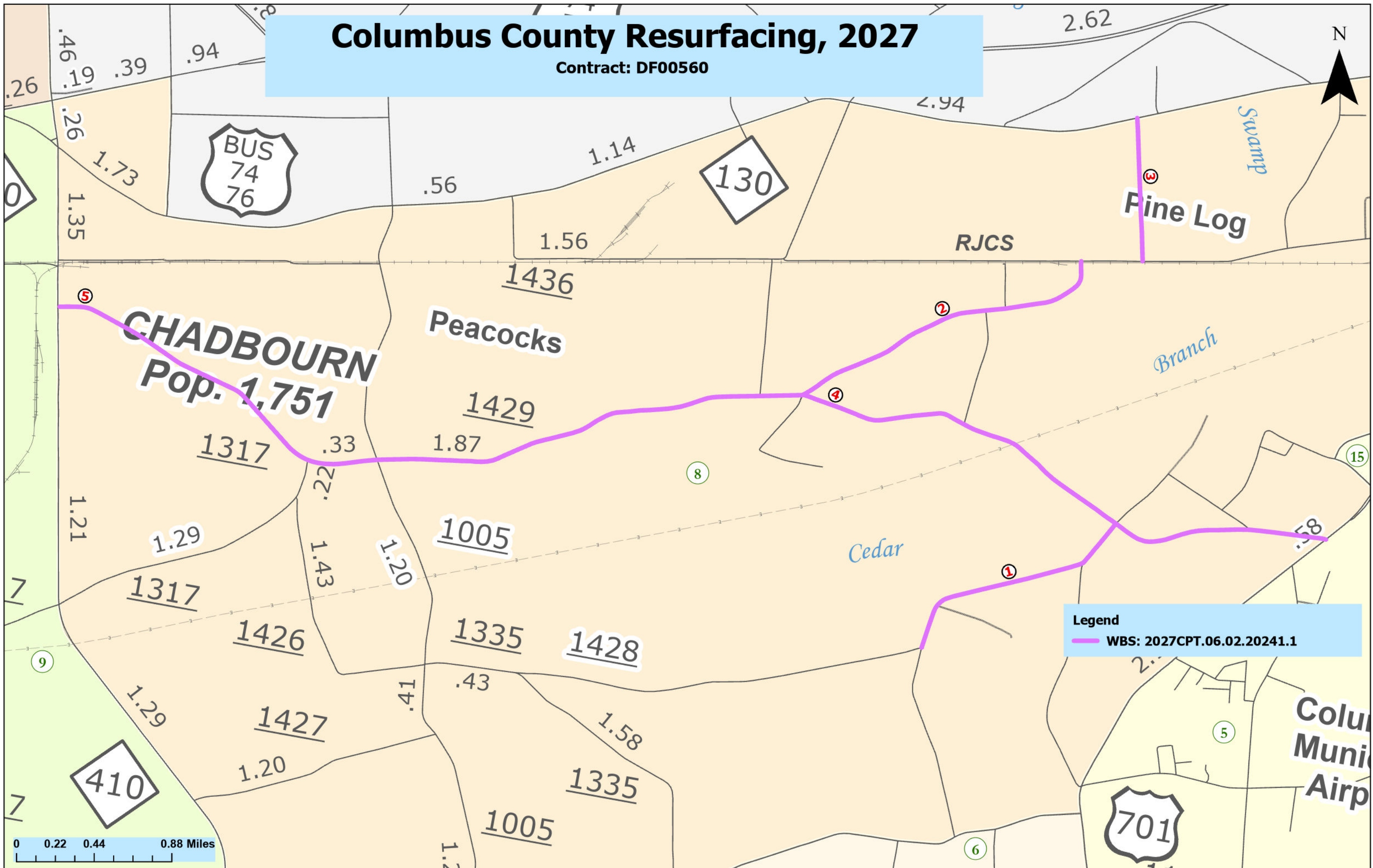
TYPE OF WORK: MILLING, RESURFACING, & SHOULDER RECONSTRUCTION

Columbus County Resurfacing, 2027

Contract: DF00560

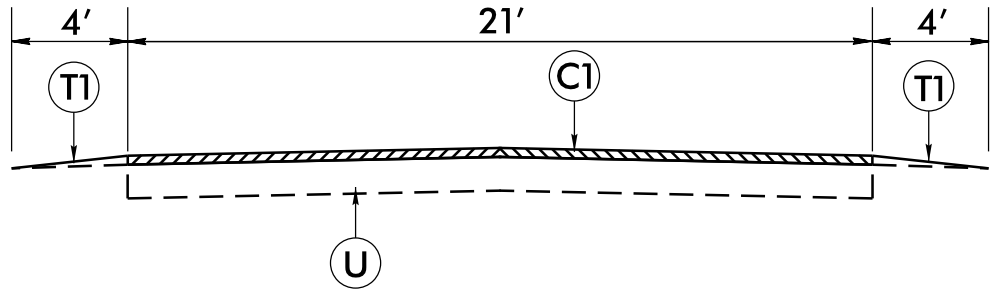
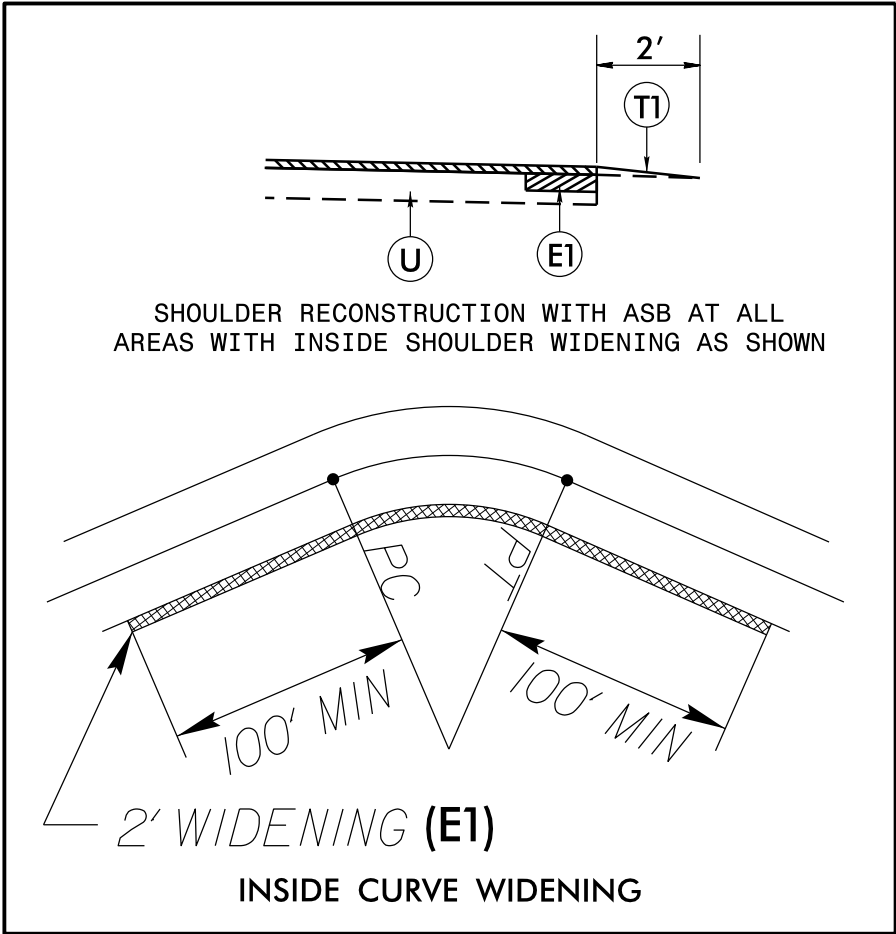
Columbus County Resurfacing, 2027

Contract: DF00560



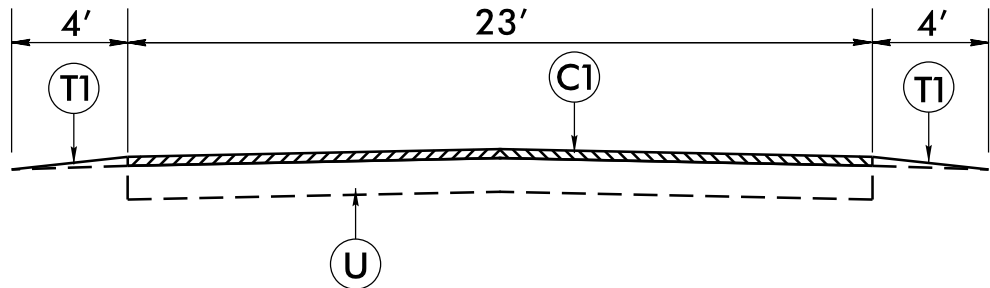
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3/2026\Resurfacing\DF00560_2027CPT.06.02.202411.etc.Fall 2026.Columbus\Plans\typ2.dgn
3/2026\Resurfacing\DF00560_2027CPT.06.02.202411.etc.Fall 2026.Columbus\Plans\typ2.dgn

PAVEMENT SCHEDULE	
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
D1	2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	0" - 1½" MILLING
V2	1½" MILLING
V3	2½" MILLING
V4	4" MILLING



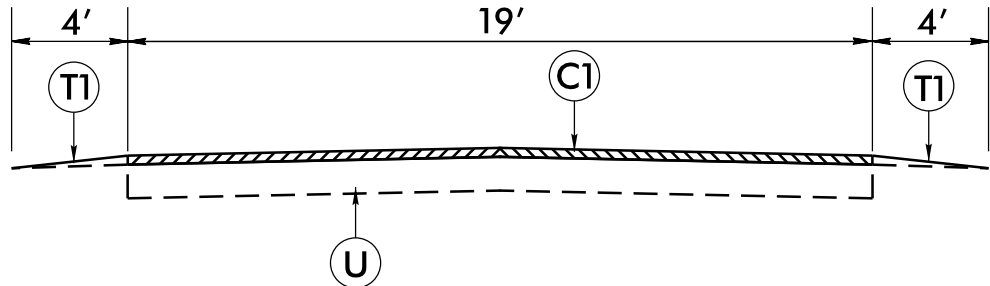
TYPICAL SECTION NO. 1

- PLUS 2' INSIDE CURVE WIDENING (SEE DETAIL)
- PLUS 2.5" MILL AND FILL WITH I19.0C (SEE DETAIL 1)
- PLUS S9.5B LEVELING COURSE AS DIRECTED BY ENGINEER
- PLUS FULL DEPTH PATCHING AS DIRECTED BY ENGINEER

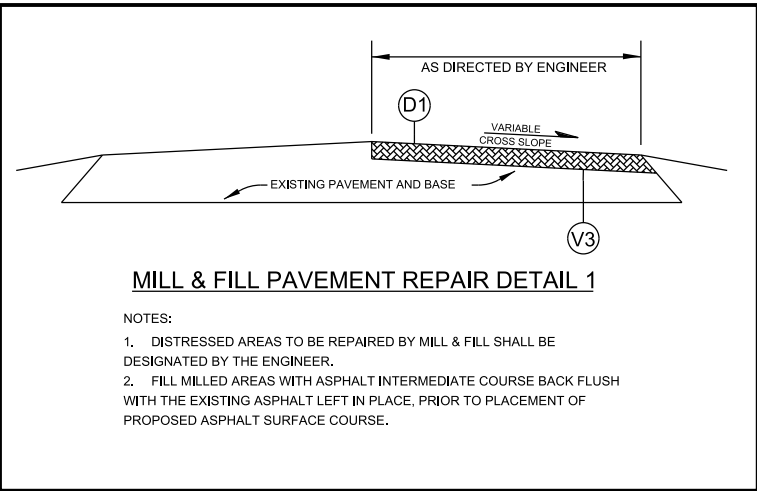


TYPICAL SECTION NO. 2

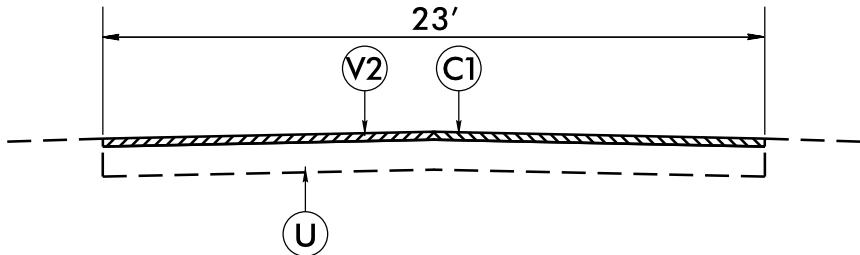
- PLUS 2' INSIDE CURVE WIDENING (SEE DETAIL)
- PLUS 2.5" MILL AND FILL WITH I19.0C (SEE DETAIL 1)
- PLUS S9.5B LEVELING COURSE AS DIRECTED BY ENGINEER



TYPICAL SECTION NO. 3



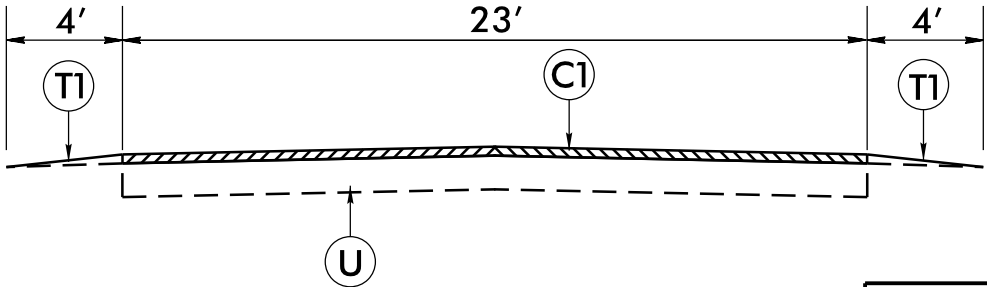
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T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	0" - 1½" MILLING
V2	1½" MILLING
V3	2½" MILLING
V4	4" MILLING



TYPICAL SECTION NO. 4

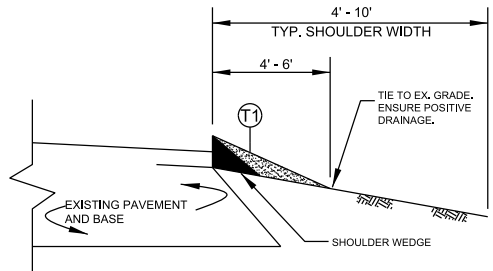
-PLUS 2' WIDENING
AT RADIUS

-PLUS 4" MILL AND FILL
WITH I19.0C (SEE DETAIL 2)



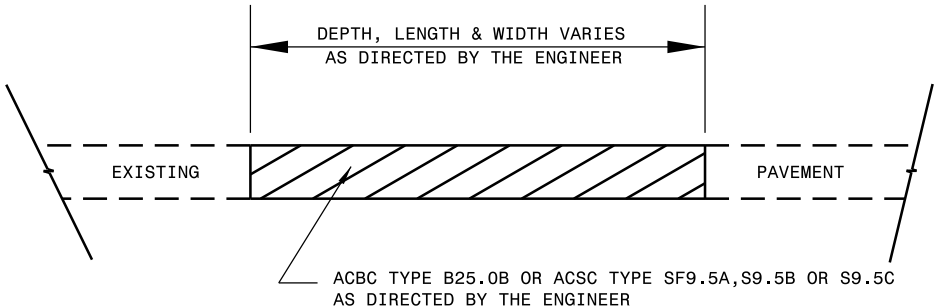
TYPICAL SECTION NO. 5

-PLUS S9.5B LEVELING COURSE
AS DIRECTED BY ENGINEER

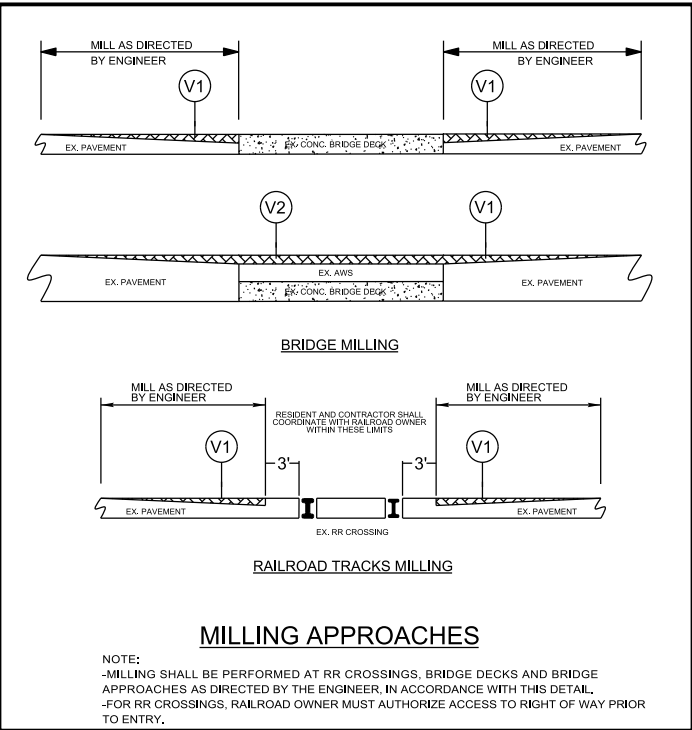


SHOULDER RECONSTRUCTION

- NOTES:
- SHOULDER SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM ROADWAY.
 - AGGREGATE SHOULDER BORROW (ASB) MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE.
 - A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION, PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.
 - REQUIRED BORROW MATERIAL MAY BE OBTAINED BY THE CONTRACTOR FROM WIDENING OPERATIONS WITHIN THE PROJECT LIMITS, FROM NCDOT APPROVED BORROW PITS OR FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

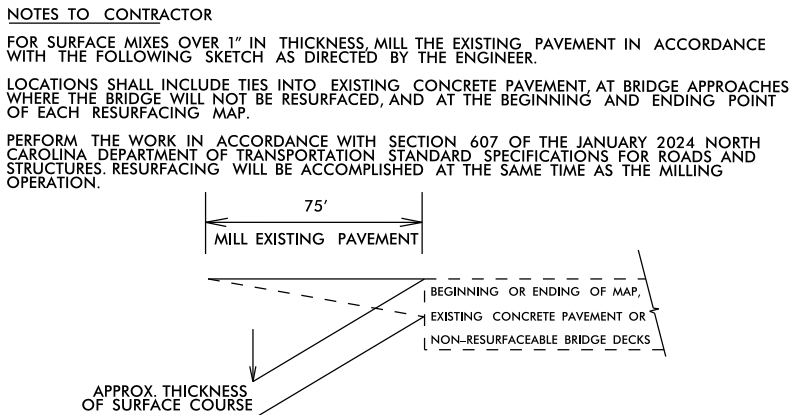


PATCHING EXISTING PAVEMENT
PATCHING TO BE PERFORMED PRIOR TO MILL AND FILL OPERATION

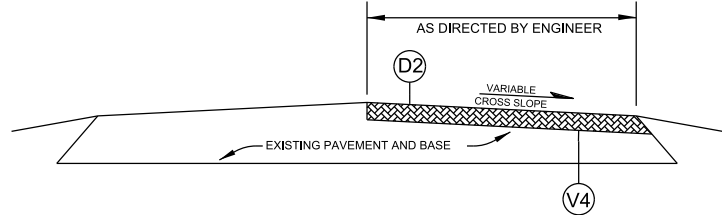


MILLING APPROACHES

- NOTE:
- MILLING SHALL BE PERFORMED AT RR CROSSINGS, BRIDGE DECKS AND BRIDGE APPROACHES AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.
 - FOR RR CROSSINGS, RAILROAD OWNER MUST AUTHORIZE ACCESS TO RIGHT OF WAY PRIOR TO ENTRY.

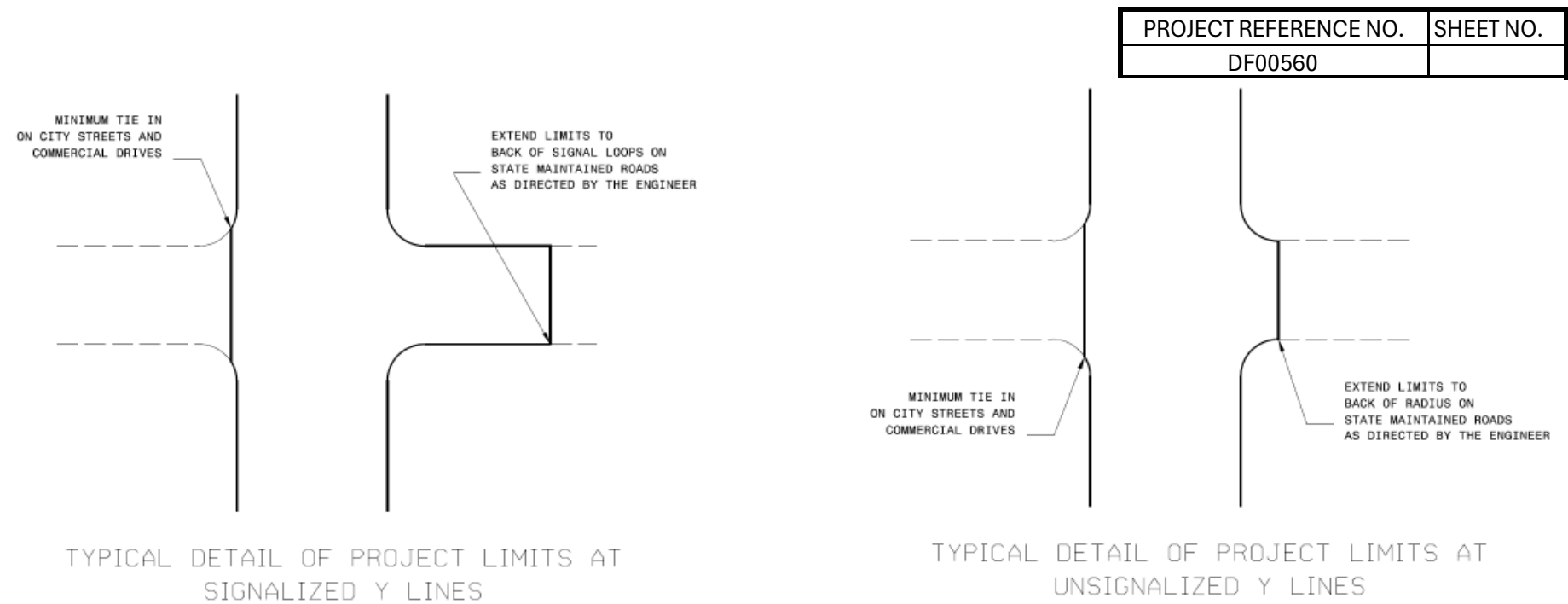


MILLING AT PAVEMENT TIE-INS DETAIL



MILL & FILL PAVEMENT REPAIR DETAIL 2

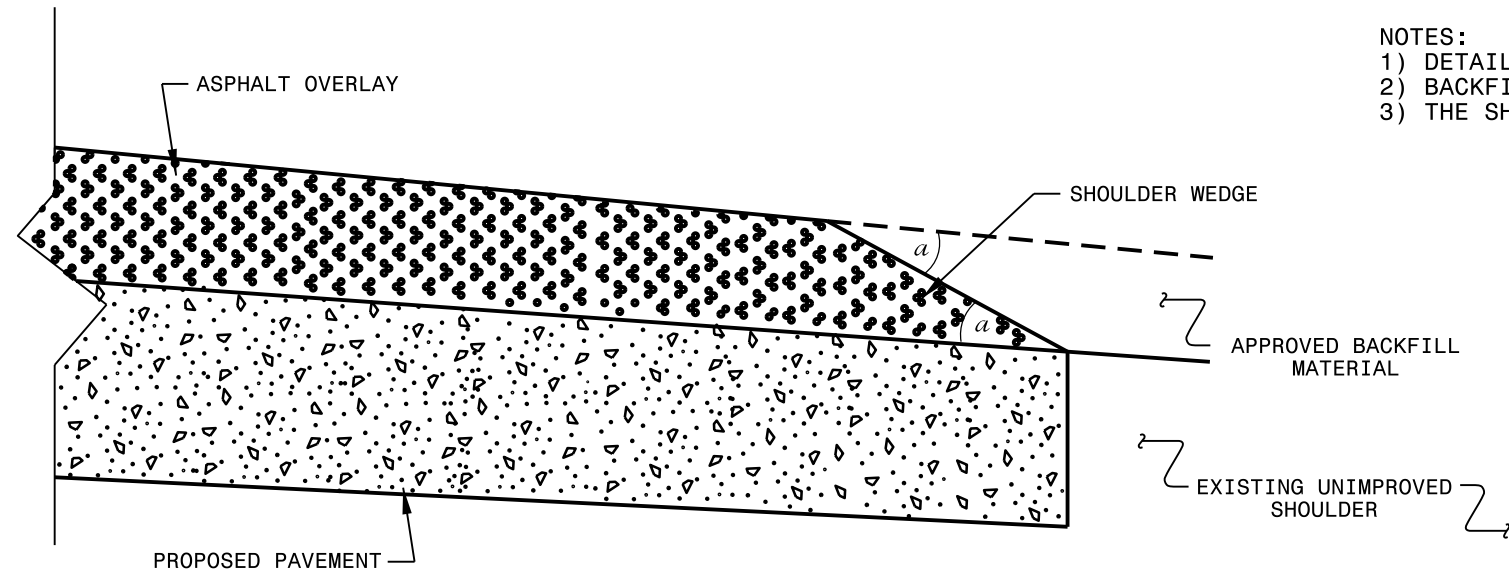
- NOTES:
- DISTRESSED AREAS TO BE REPAIRED BY MILL & FILL SHALL BE DESIGNATED BY THE ENGINEER.
 - FILL MILLED AREAS WITH ASPHALT INTERMEDIATE COURSE BACK FLUSH WITH THE EXISTING ASPHALT LEFT IN PLACE, PRIOR TO PLACEMENT OF PROPOSED ASPHALT SURFACE COURSE.



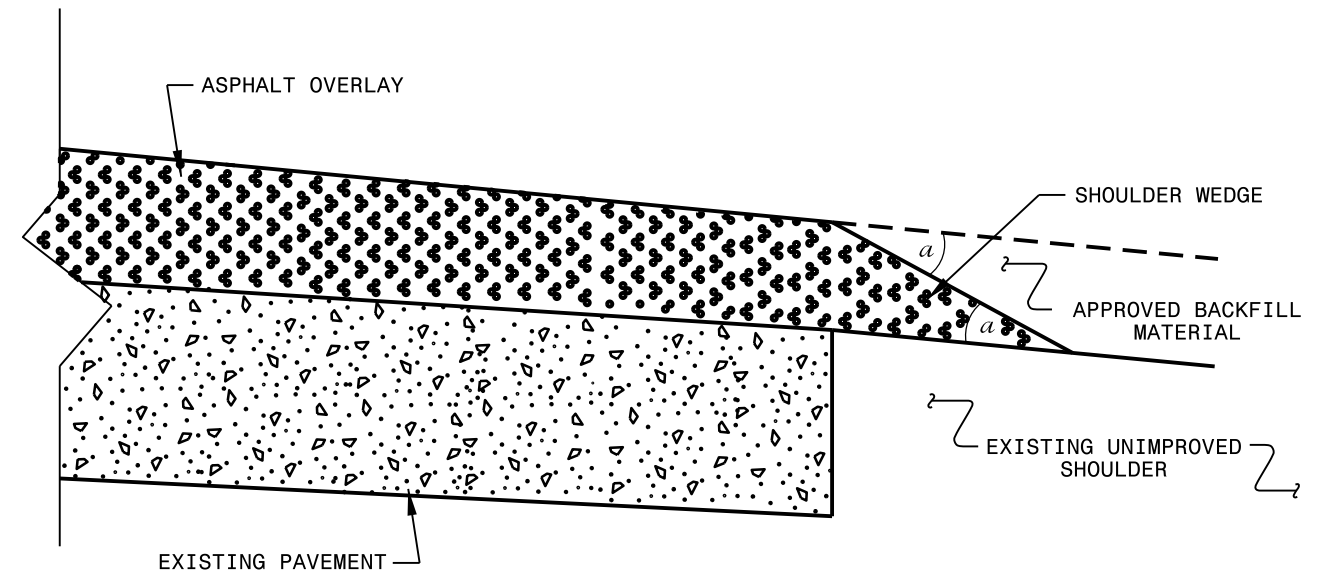
ADDITIONAL INTERSECTIONS (NON-TYPICAL)				
Extend paving limits to back of radius or loop on the following intersections				
Map #	Street Name	Comments	Total	Unit
1	SR1428	50 FT from L-line of EOP (Pave Only)	298.89	SY
1	SR1451	56 FT from L-line of EOP (Pave Only)	316.12	SY
1	SR1431	114 FT from L-line of EOP (Pave Only)	1014.45	SY
2	SR1434	53 FT from L-line of EOP (Pave Only)	222.44	SY
2	SR1450	36 FT from L-line of EOP (Pave Only)	121.67	SY
4	SR1005 RT	47 FT from L-line of EOP (Mill & Pave)	196.67	SY
4	SR1005 LT	54 FT from L-line of EOP (Mill & Pave)	246.44	SY
4	SR1435	45 FT from L-line of EOP (Mill & Pave)	276.11	SY
4	SR1429	120 FT from L-line of EOP (Mill & Pave)	586.66	SY
4	SR1434	68 FT from L-line of EOP (Mill & Pave)	345.89	SY
4	SR1428 RT	50 FT from L-line of EOP (Mill & Pave)	258.89	SY
4	SR1428 LT	68 FT from L-line of EOP (Mill & Pave)	326.22	SY
4	SR1428 LT MP 4.79	119 FT from L-line of EOP (Mill & Pave)	787.28	SY
5	SR1317	130 FT from L-line of EOP (Mill & Pave)	598.34	SY

NOTE: Quantities are for estimate purpose only. ACTUAL FIELD QUANTITY MAY VARY

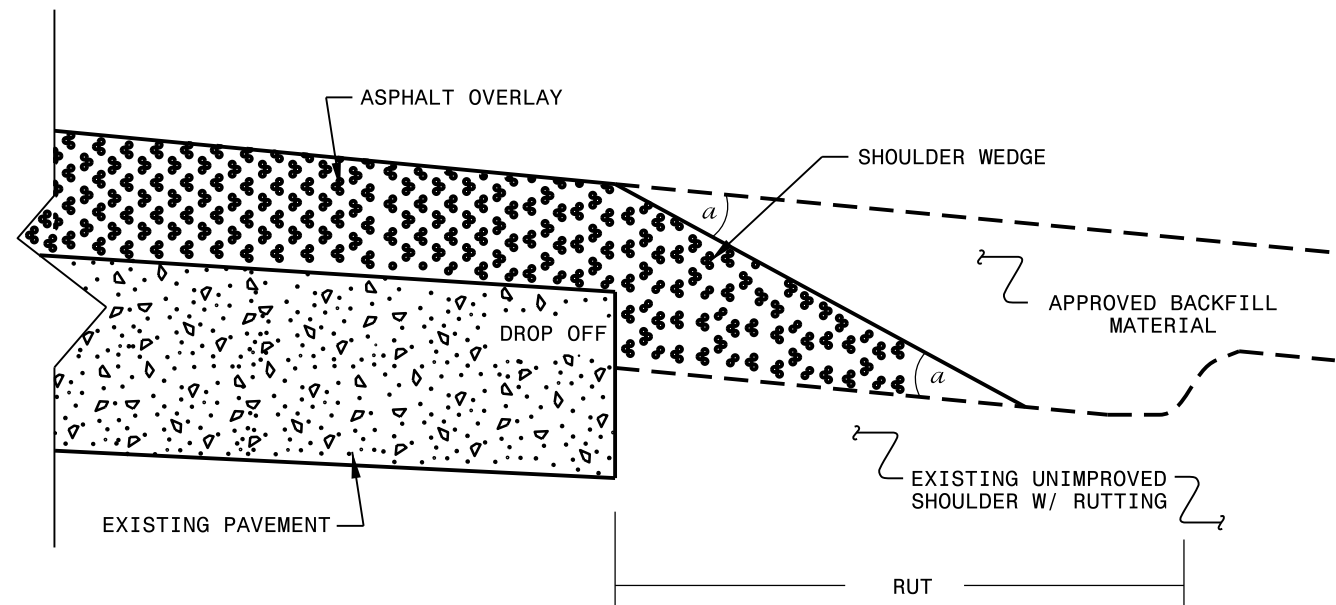
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

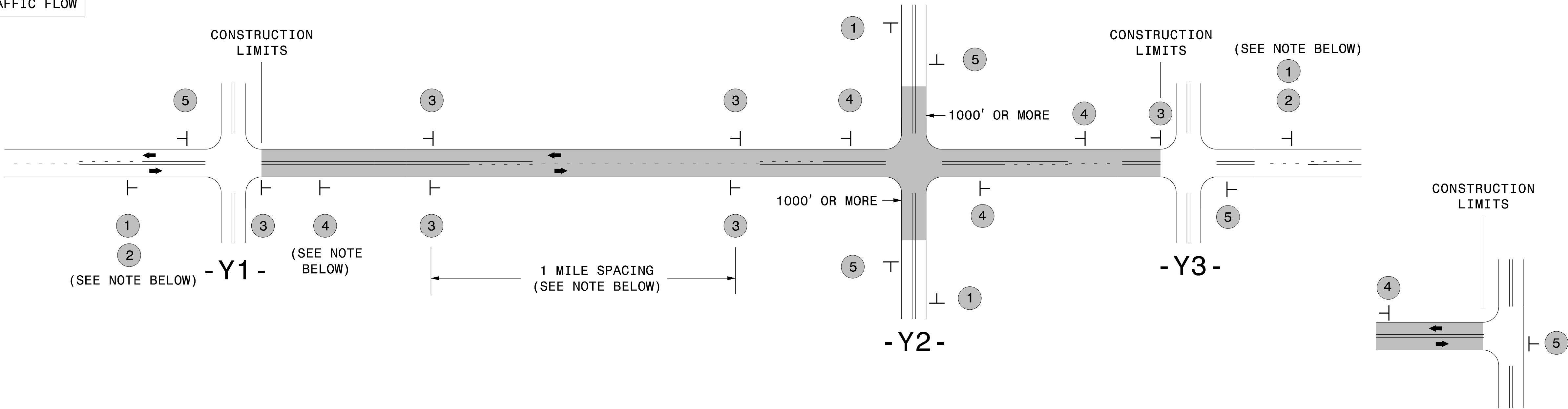
CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY:	T.SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	10/16/12
CHECKED BY:		DATE:	
ETL SPFC:	s:\usr\details\stand\shoulderwedgedetail.dgn		

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

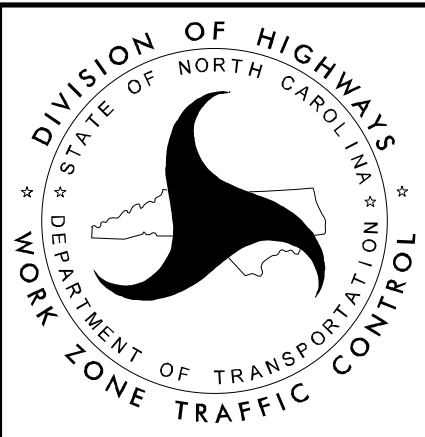
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 ROAD WORK AHEAD W20-1 48" X 48" 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)	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. ROAD WORK AHEAD W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER.
	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 1/2 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.	
LESS 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.	

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

AD



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

GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

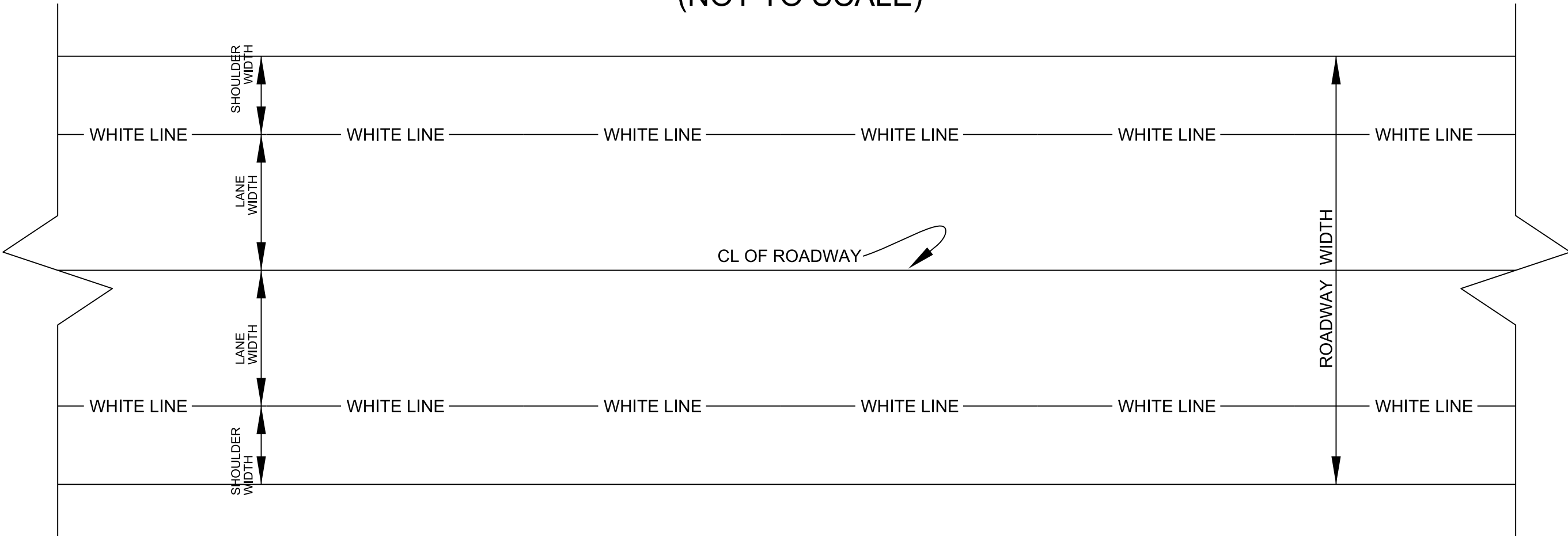
Contractor shall place the new pavement markings in accordance with this table and detail unless otherwise directed by the Engineer.

TWO LANE - TWO WAY ROADWAY - 55 MPH		
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH
18'	9' *	0'
20'	10' *	0'
22'	10'	1'
24'	10'	2'
26'	11'	2'
28'	12'	2'
32'	12'	4'
* May vary due to pavement width		

TWO LANE - TWO WAY ROADWAY		50
MPH OR LESS		
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH
18'	9' *	0'
20'	10' *	0'
22'	10'	1'
24'	10'	2'
26'	11'	2'
28'	11'	3'
32'	11'	5'
* May vary due to pavement width		

SCHEMATIC OF ROADWAY

(NOT TO SCALE)



PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.06.02.20241.1		

SUMMARY OF QUANTITIES

												1220000000-E	1245000000-E	1260000000-E	1297000000-E			1330000000-E	1491000000-E	1503000000-E	1519000000-E	1520000000-E	1575000000-E	1704000000-E	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	2 1/2" MILLING	1 1/2" MILLING	4" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	INTERMEDIATE COURSE, I19.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	
								MI	FT			TONS	SMI	TON	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	TONS
2027CPT.06.02.20241.1	Columbus	1	SR-1428 / THOMPSON TOWN RD	FROM SR1429 TO SR1430	1	2	2WU	1.240	21	0.880	2.120	10	2.48	372	265			194	77	38	1,593	18	111	22	
TOTAL FOR MAP NO. 1								1.240				10	2.48	372	265			194	77	38	1,593	18	111	22	
2027CPT.06.02.20241.1	Columbus	2	SR-1437 / PINE LOG RD	FROM SR1429 TO SR1436	2	2	2WU	1.560	23	0.030	1.590	10	3.12	468	162				43	23	1,994	10	133		
TOTAL FOR MAP NO. 2								1.560				10	3.12	468	162				43	23	1,994	10	133		
2027CPT.06.02.20241.1	Columbus	3	SR-1440 / FRUIT RIDGE RD	FROM US74 BUS TO SR1437	3	2	2WU	0.790	19	0.010	0.800	10	1.58	237							814		53		
TOTAL FOR MAP NO. 3								0.790				10	1.58	237							814		53		
2027CPT.06.02.20241.1	Columbus	4	SR-1429 / SLIPPERY LOG RD	FROM SR1317 TO US701	4	2	2WU	4.955	23	0.015	4.970					67,265	33	4,273	4	8	6,312		411		
TOTAL FOR MAP NO. 4								4.955									67,265	33	4,273	4	8	6,312		411	
2027CPT.06.02.20241.1	Columbus	5	SR-1317 / CLARENDON CHADBOURN RD	FROM NC410 TO SR1429	5	2	2WU	1.505	23	7.805	9.310	10	3.01	452				203			1,933	43	128		
TOTAL FOR MAP NO. 5								1.505				10	3.01	452				203			1,933	43	128		
TOTAL FOR PROJ NO. 2027CPT.06.02.20241.1								10.050				40	10.19	1,529	427	67,265	33	4,670	124	69	12,646	71	836	22	
														67,725											
GRAND TOTAL								10.050				40	10.19	1,529	427	67,265	33	4,670	124	69	12,646	71	836	22	
														67,725											

PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.06.02.20241.1		

THERMOPLASTIC AND PAINT QUANTITIES

												4413000000-E	4457000000-N	4685000000-E		4704000000-E	4709000000-E	4892000000-N	4900000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M YELLOW THERMO	4" X 90 M WHITE THERMO	16" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	THERMO RXR CHARACTERS 90 M	YELLOW & YELLOW MARKERS
2027CPT.06.02.20241.1	Columbus	1	SR-1428 / THOMPSON TOWN RD	FROM SR1429 TO SR1430	1	2	2WU	1.24	21	0.88	2.12	104	0.13	8,804	13,268				85
TOTAL FOR MAP NO. 1								1.24				104	0.13	8,804	13,268				85
2027CPT.06.02.20241.1	Columbus	2	SR-1437 / PINE LOG RD	FROM SR1429 TO SR1436	2	2	2WU	1.56	23	0.03	1.59	136	0.16	16,073	16,611	40	20	1	105
TOTAL FOR MAP NO. 2								1.56				136	0.16	16,073	16,611	40	20	1	105
2027CPT.06.02.20241.1	Columbus	3	SR-1440 / FRUIT RIDGE RD	FROM US74 BUS TO SR1437	3	2	2WU	0.79	19	0.01	0.8	80	0.06	5,877	8,343				54
TOTAL FOR MAP NO. 3								0.79				80	0.06	5,877	8,343				54
2027CPT.06.02.20241.1	Columbus	4	SR-1429 / SLIPPERY LOG RD	FROM SR1317 TO US701	4	2	2WU	4.955	23	0.015	4.97	299	0.49	44,187	53,767		120		345
TOTAL FOR MAP NO. 4								4.955				299	0.49	44,187	53,767		120		345
2027CPT.06.02.20241.1	Columbus	5	SR-1317 / CLARENDON CHADBOURN RD	FROM NC410 TO SR1429	5	2	2WU	1.505	23	7.805	9.31	107	0.15	13,704	16,197				104
TOTAL FOR MAP NO. 5								1.505				107	0.153	13,704	16,197				104
TOTAL FOR PROJ NO. 2027CPT.06.02.20241.1								10.05				726	1.000	88,645	108,186	40	140	1	693
															196,831				
GRAND TOTAL								10.05				726	1.000	88,645	108,186	40	140	1	693
															196,831				