

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION 6

PLANS

Letting Date: October 17, 2018

CONTRACT ID: DF00233

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2021CPT.06.02.10241.1 & 2021CPT.06.02.20241.1

ROUTE NO.: US 701 & VARIOUS SR

LOCATION: VARIOUS

COUNTY: COLUMBUS

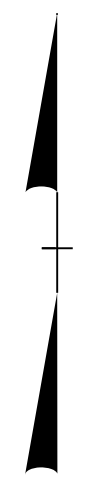
LENGTH OF PROJECT: 31.40 MILES

TYPE OF WORK: RESURFACING, MILLING, PVT. INTERLAYER, WIDENING & PVT. MKGS.

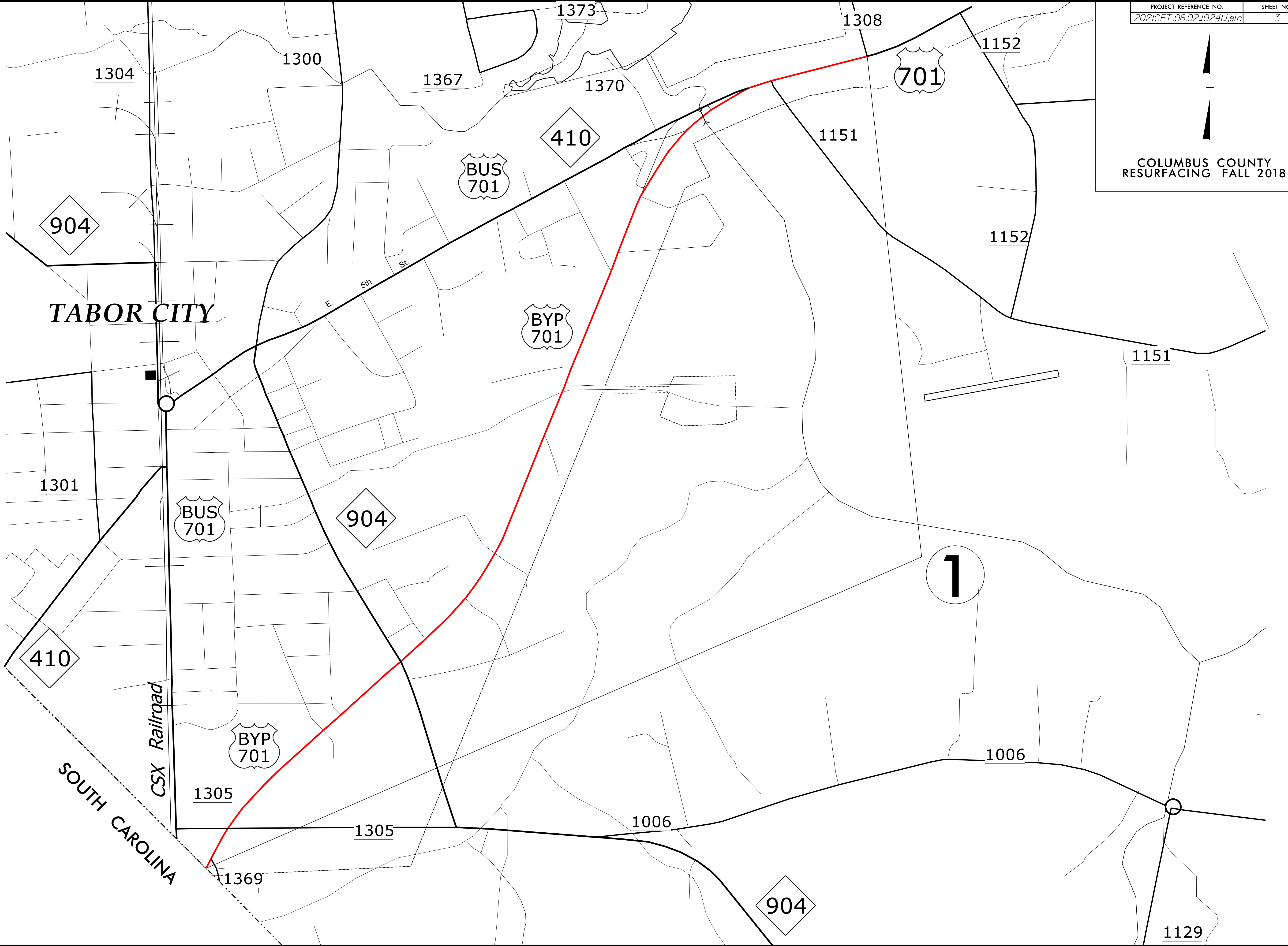
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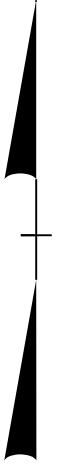


COLUMBUS COUNTY
RESURFACING FALL 2018



REVISIONS

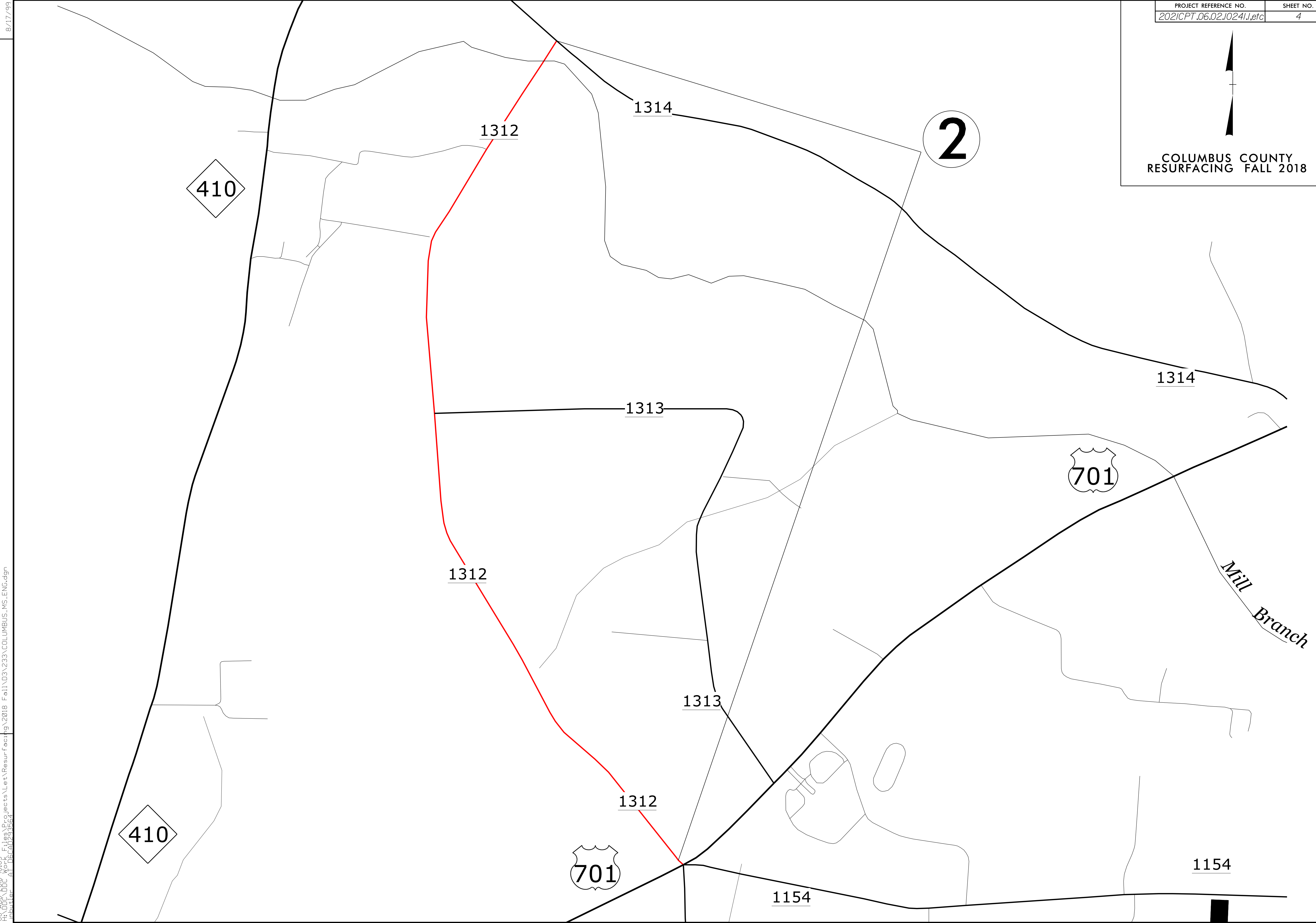
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FILE: C:\Users\alr\OneDrive\Documents\2021CPT.06.02.J02411.etc.dgn



COLUMBUS COUNTY
RESURFACING FALL 2018

REVISIONS

08-AUG-2018 10:05
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DRAWN BY: ALICIA



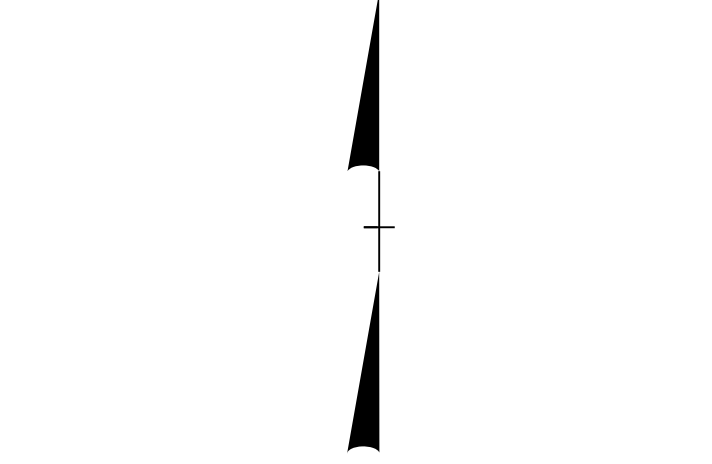
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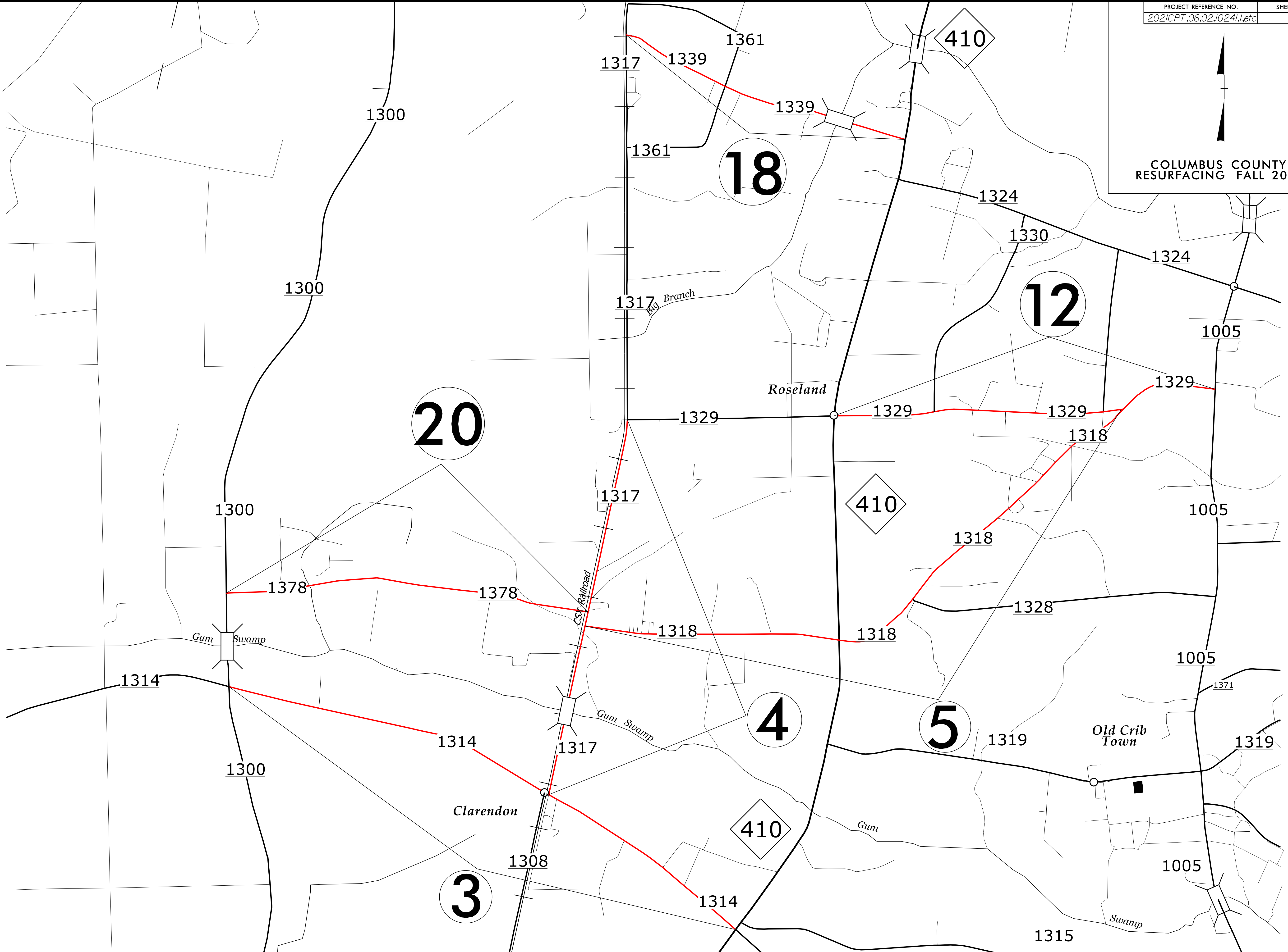
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Mill Branch

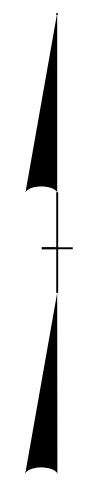


COLUMBUS COUNTY RESURFACING FALL 2018

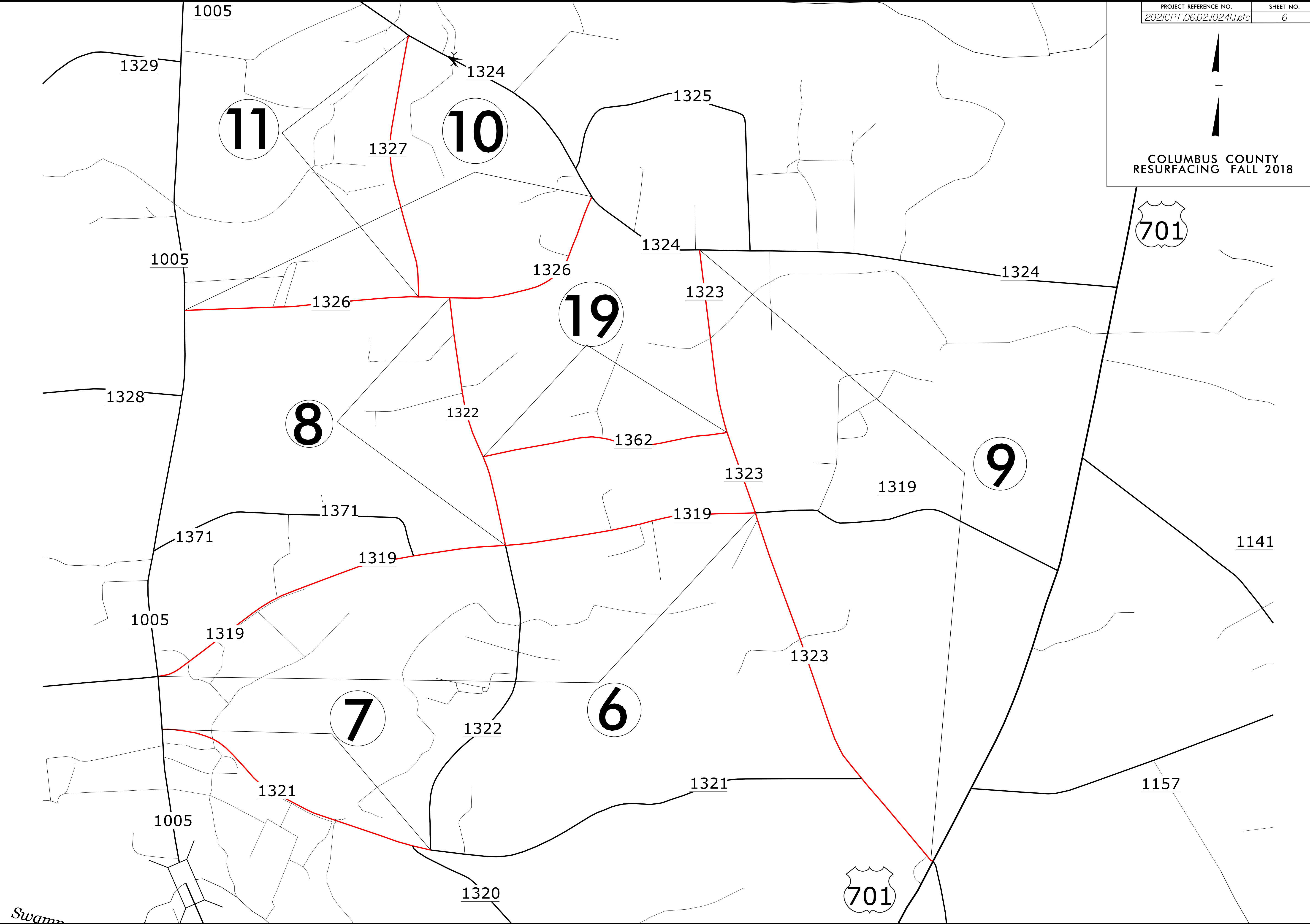
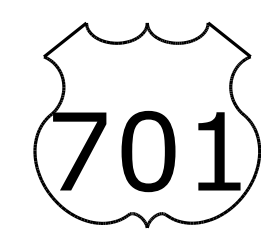


REVISIONS

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8/17/99



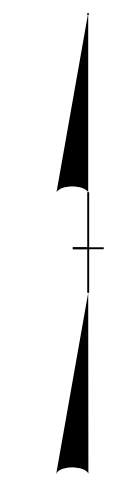
COLUMBUS COUNTY RESURFACING FALL 2018



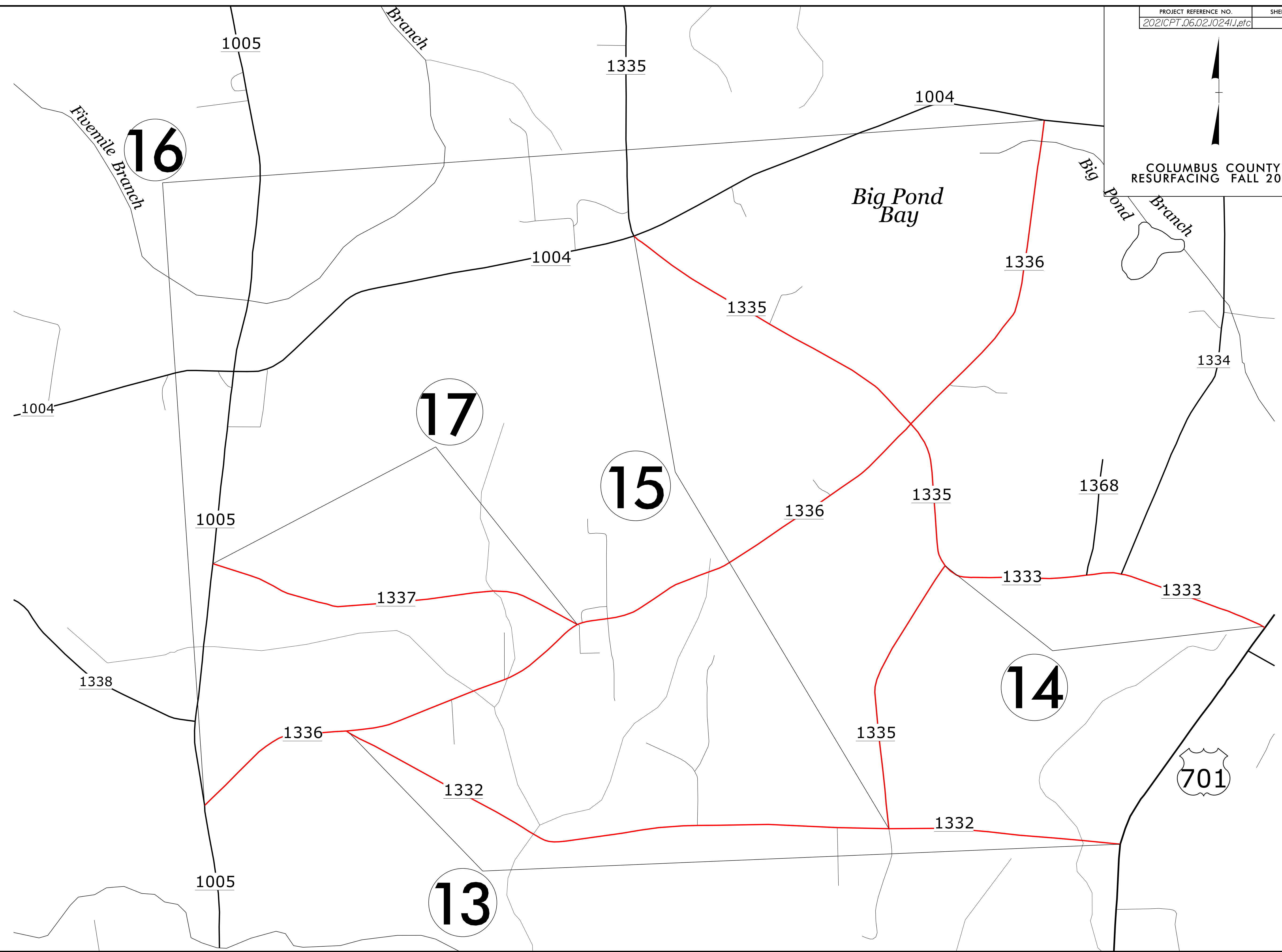
REVISIONS

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Swamp



COLUMBUS COUNTY
RESURFACING FALL 2018

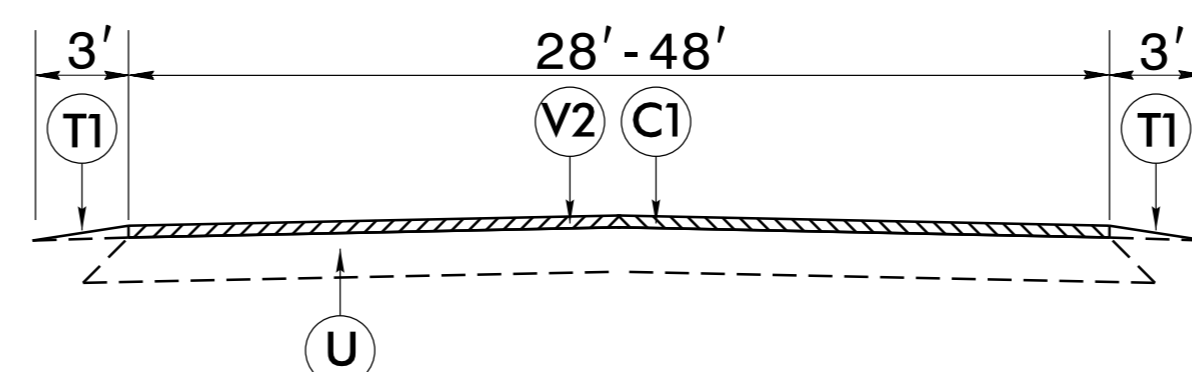


REVISIONS

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Author: A:\catt\33562

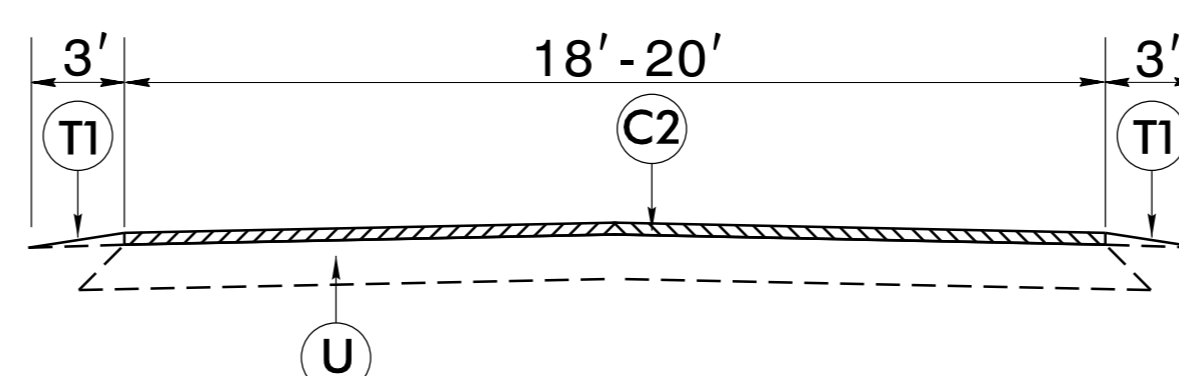
PAVEMENT SCHEDULE

C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
F1	PAVEMENT INTERLAYER
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	0" - 1½" MILLING
V2	¾" MILLING
V3	1½" MILLING
V4	4" MILLING



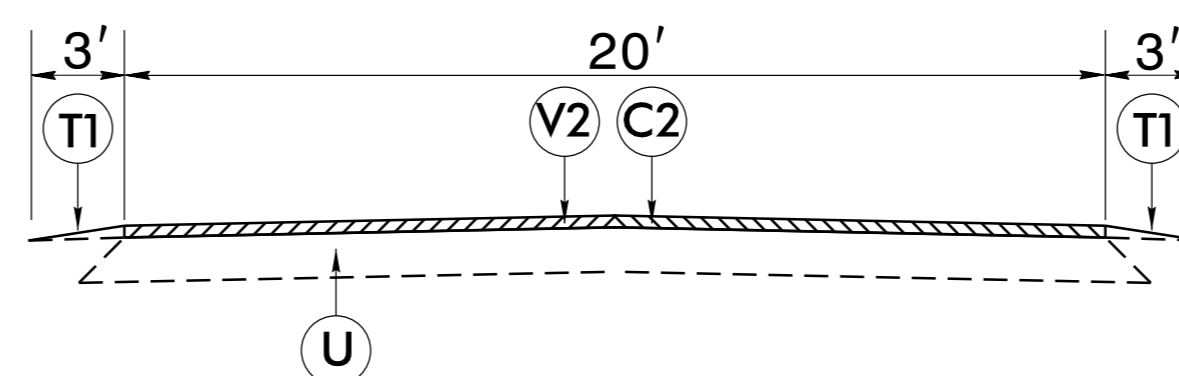
TYPICAL SECTION NO. 1

*PLUS MILL AND FILL REPAIR
(SEE DETAIL)



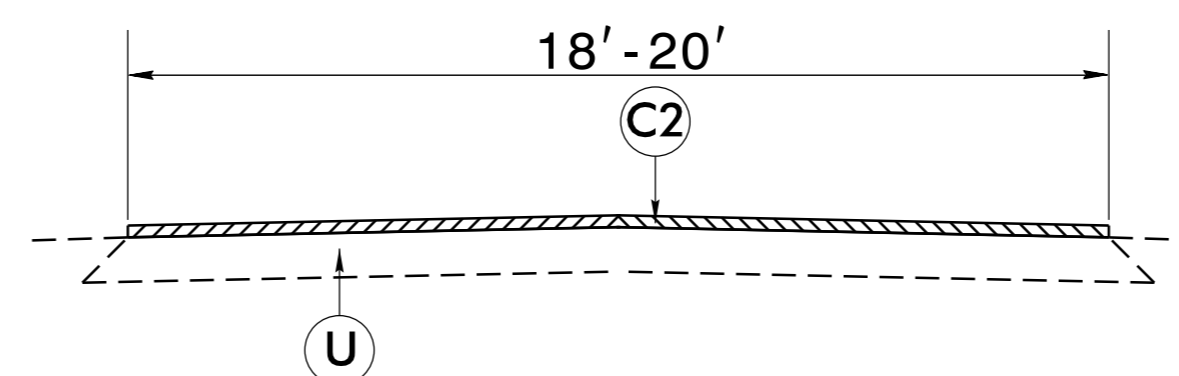
TYPICAL SECTION NO. 2

*PLUS ADDITIONAL 2'
INSIDE CURVE WIDENING
(SEE DETAIL)

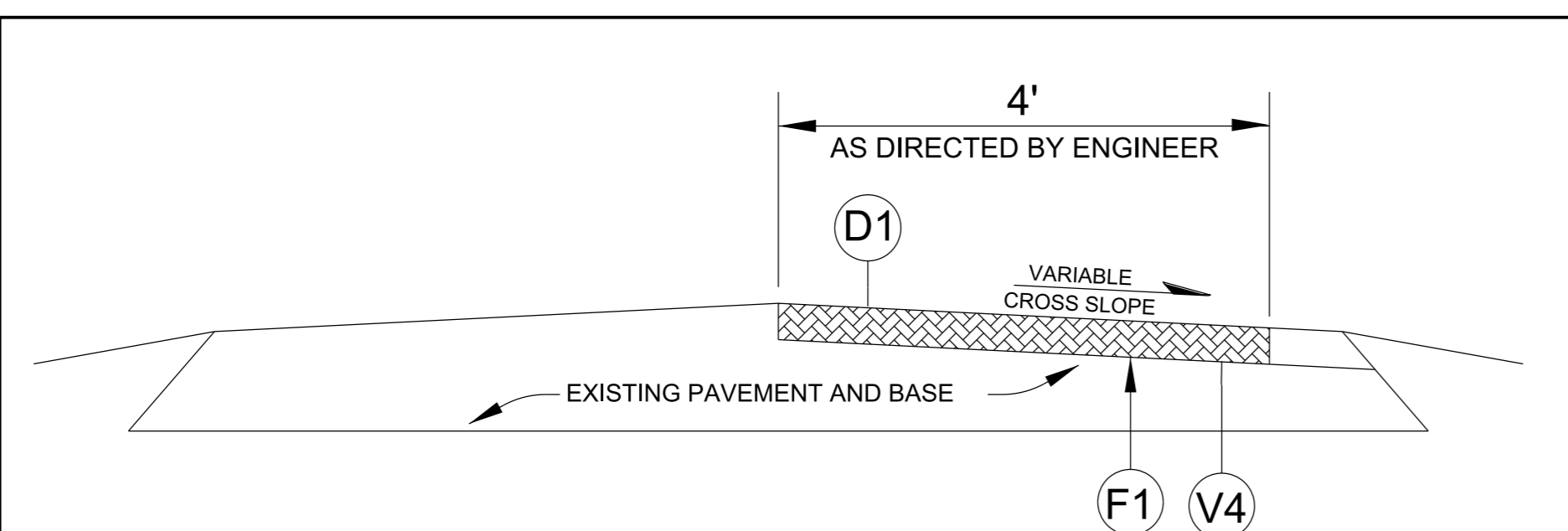


TYPICAL SECTION NO. 3

*PLUS ADDITIONAL 2'
INSIDE CURVE WIDENING
(SEE DETAIL)



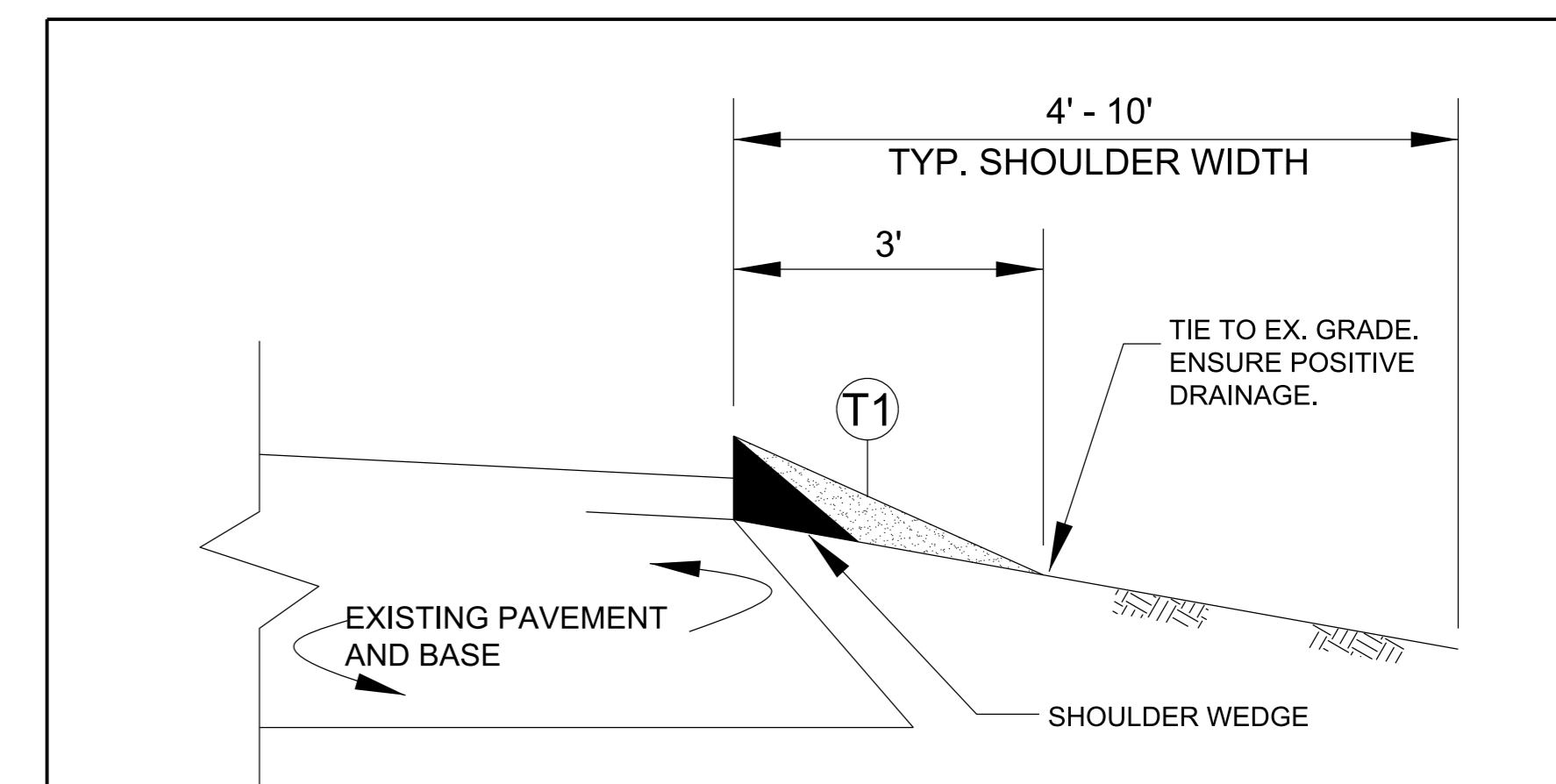
TYPICAL SECTION NO. 4



MILL & FILL PAVEMENT REPAIR

NOTES:

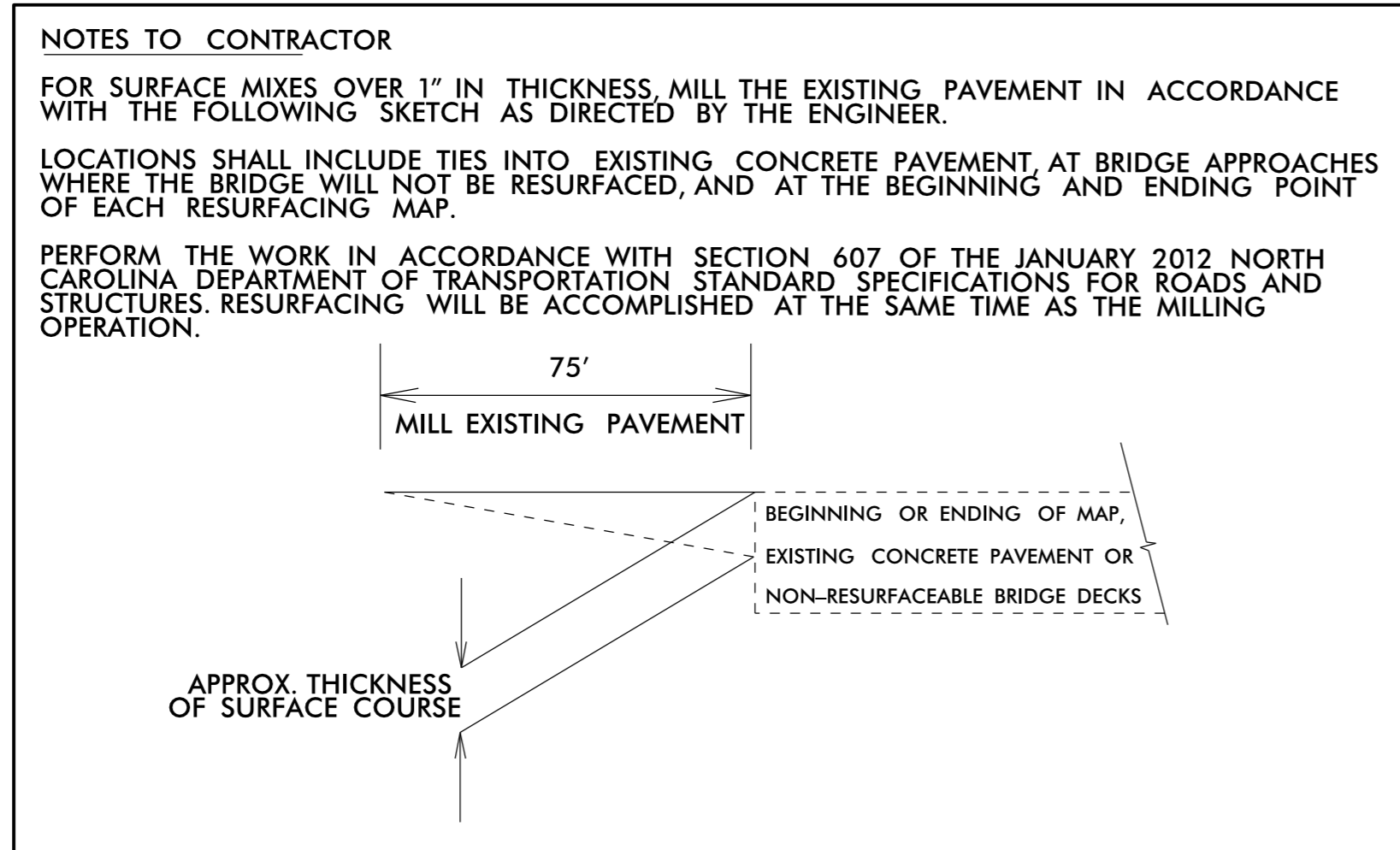
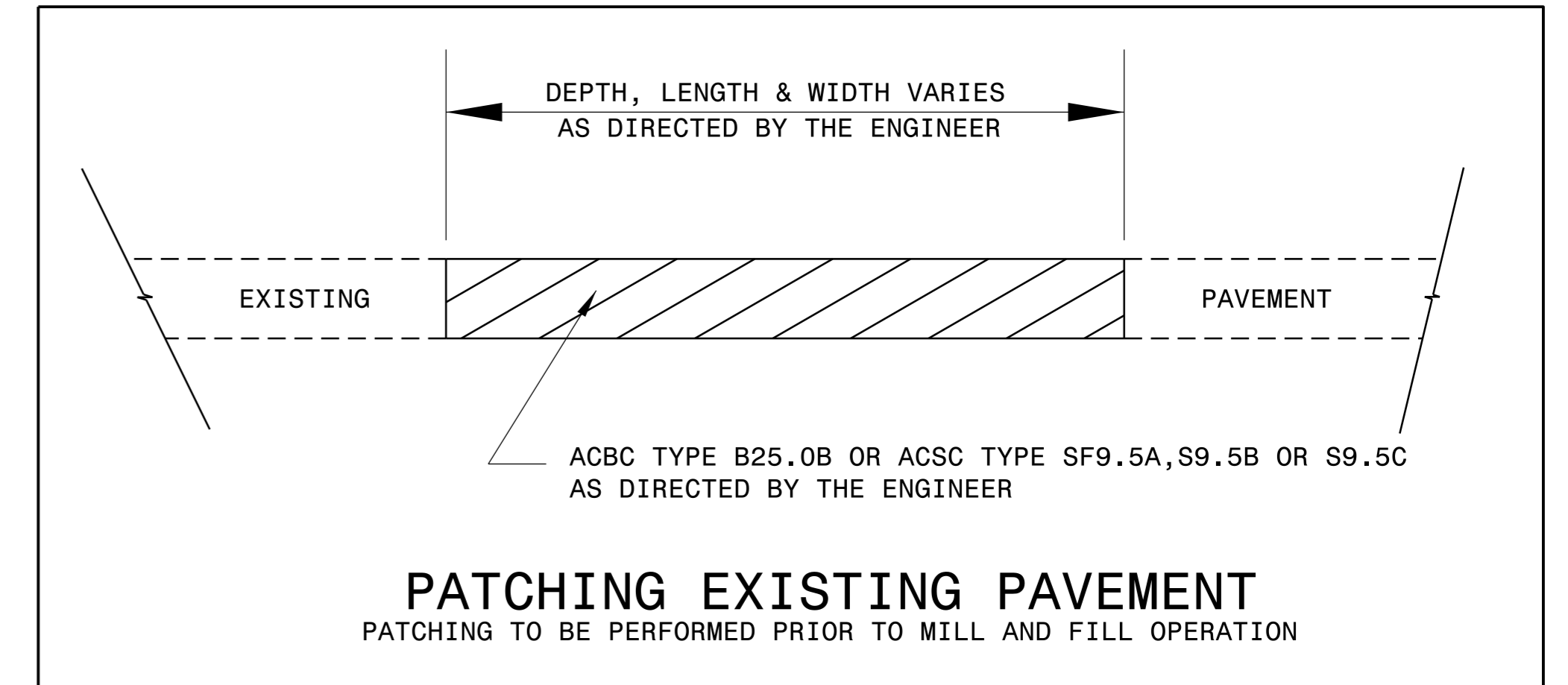
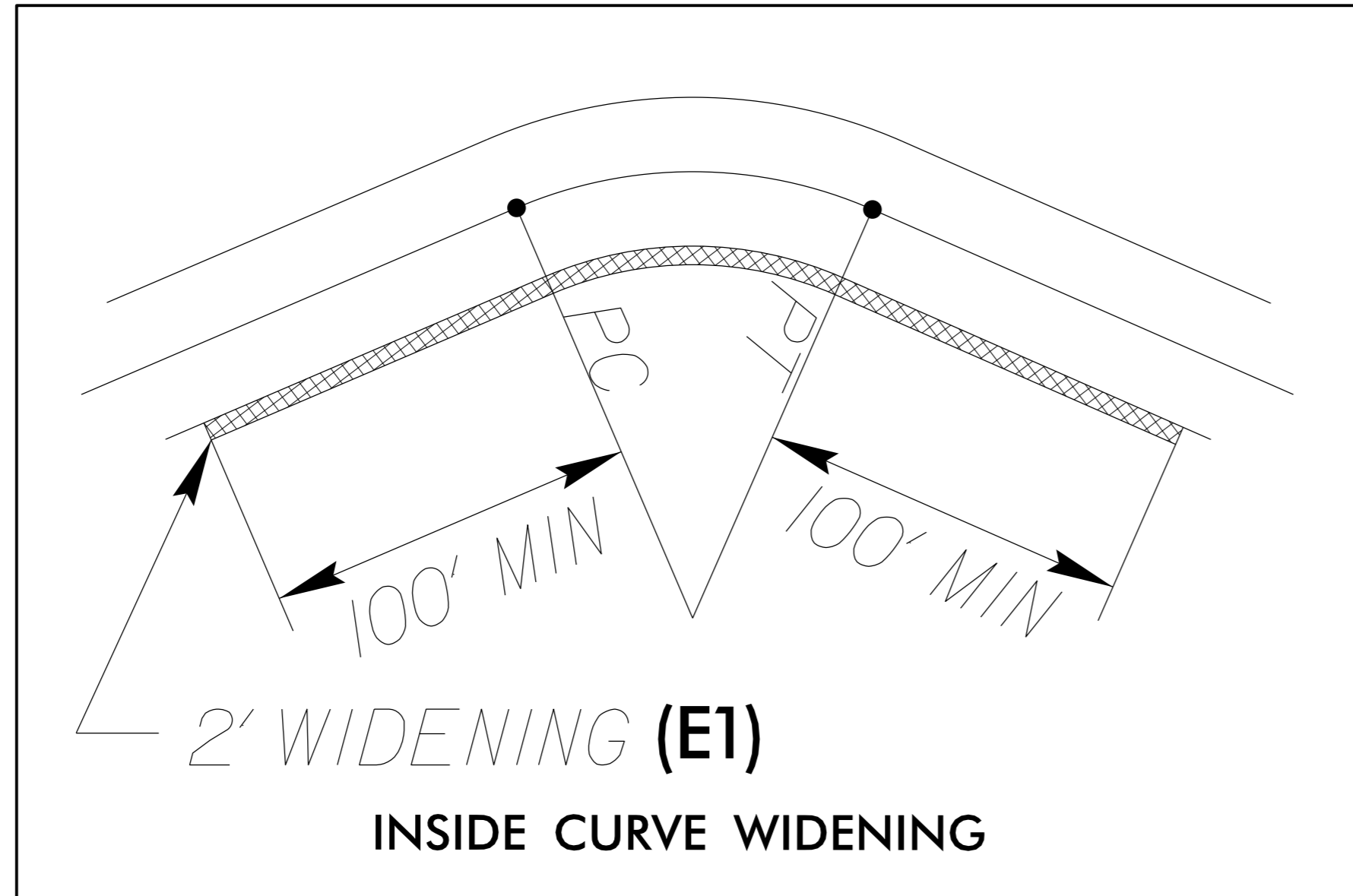
1. DISTRESSED AREAS TO BE REPAIRED BY MILL & FILL SHALL BE DESIGNATED BY THE ENGINEER.
2. FILL MILLED AREAS WITH ASPHALT INTERMEDIATE COURSE BACK FLUSH WITH THE EXISTING ASPHALT LEFT IN PLACE, PRIOR TO PLACEMENT OF PROPOSED ASPHALT SURFACE COURSE.



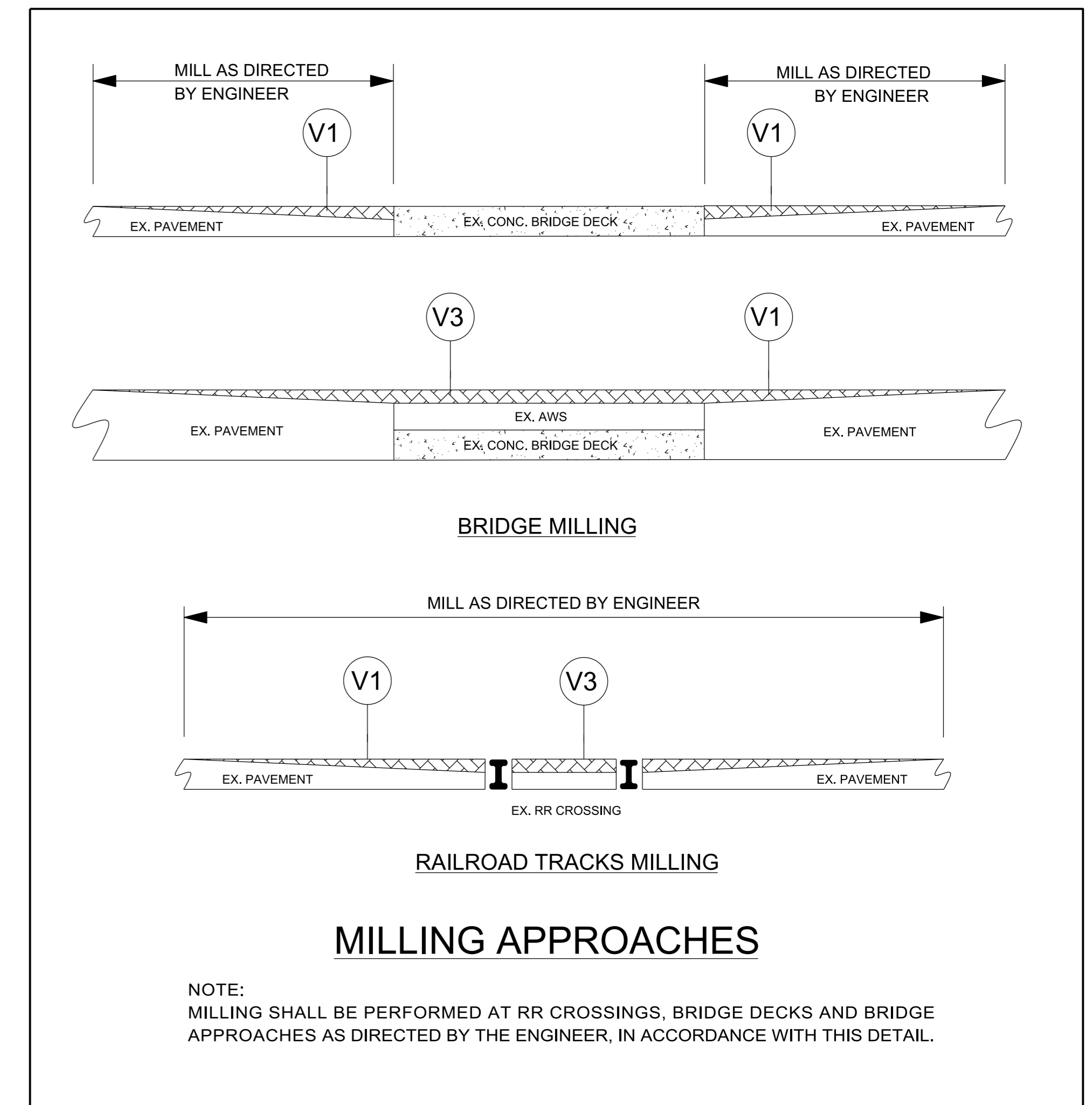
SHOULDER RECONSTRUCTION

NOTES:

1. 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.
2. AGGREGATE SHOULDER BORROW (ASB) MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE. (WHERE APPLICABLE)
3. 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.
4. 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.

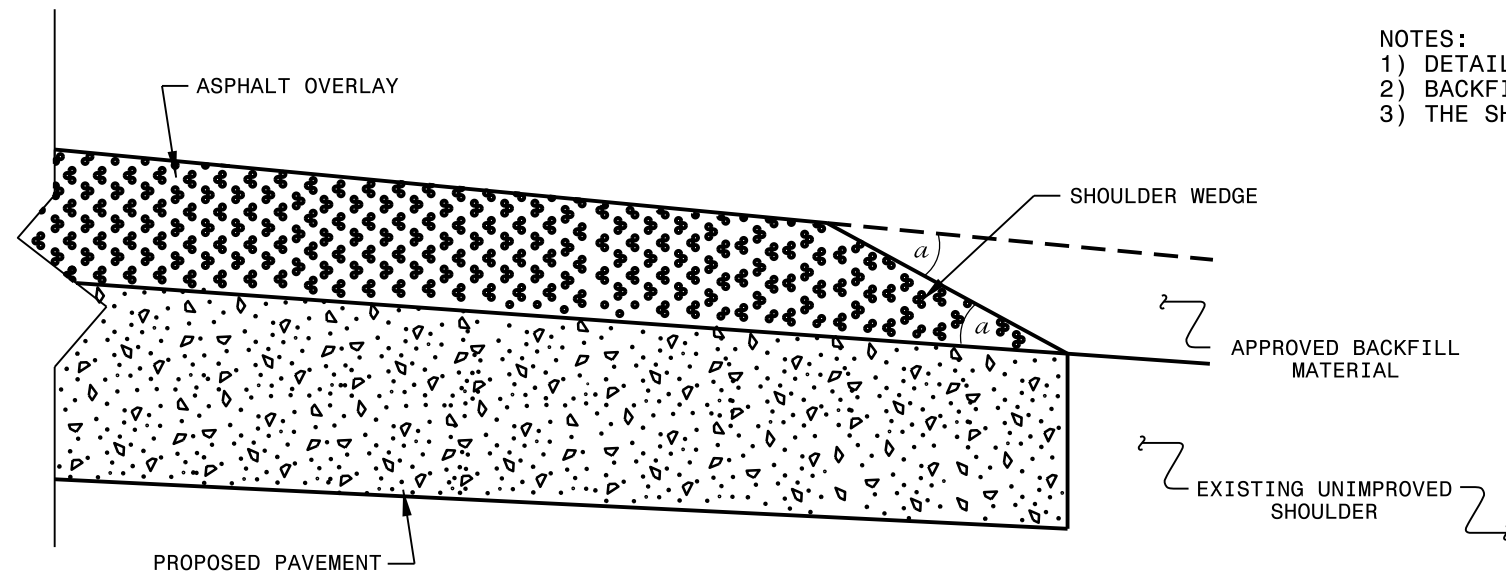


MILLING AT PAVEMENT TIE-INS DETAIL

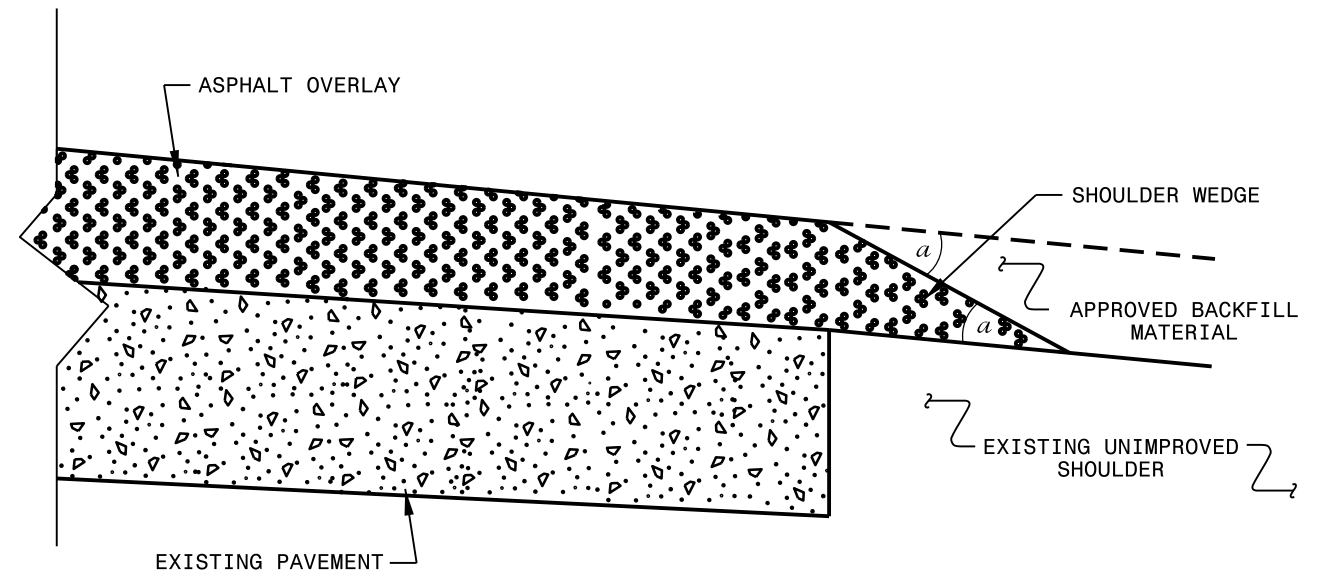


6/2/99
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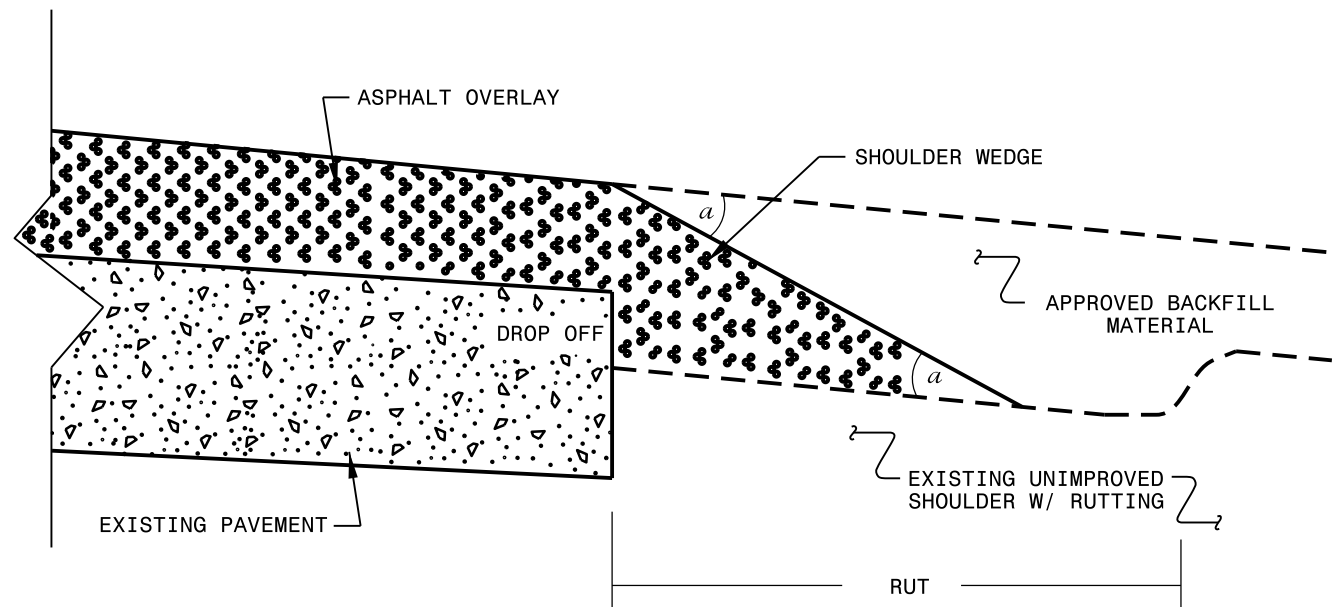
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ Widening or
with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



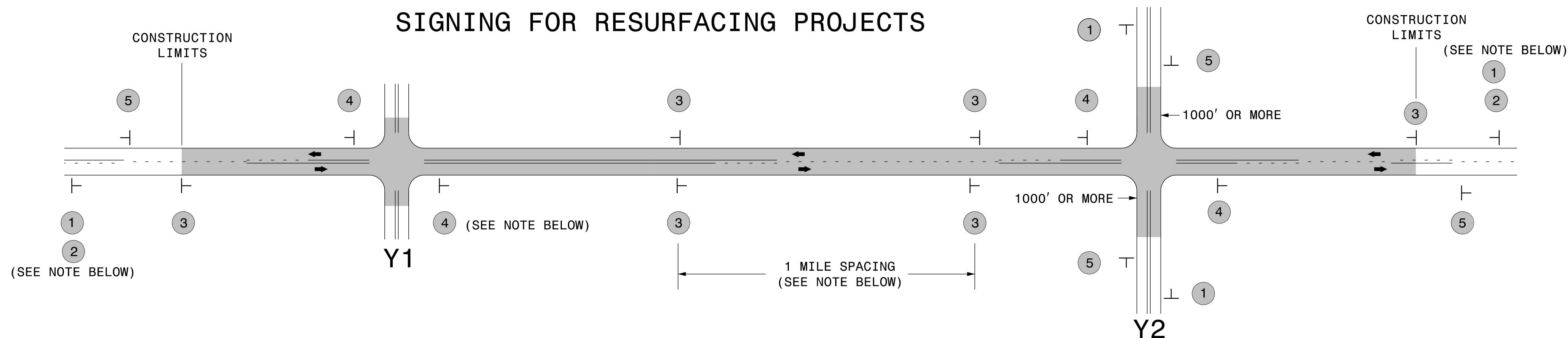
SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

- 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:
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn	

SYSTEMS DESIGN
USER NAME

SIGNING FOR RESURFACING PROJECTS

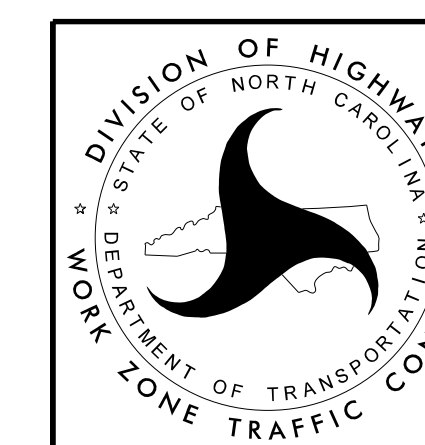


LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

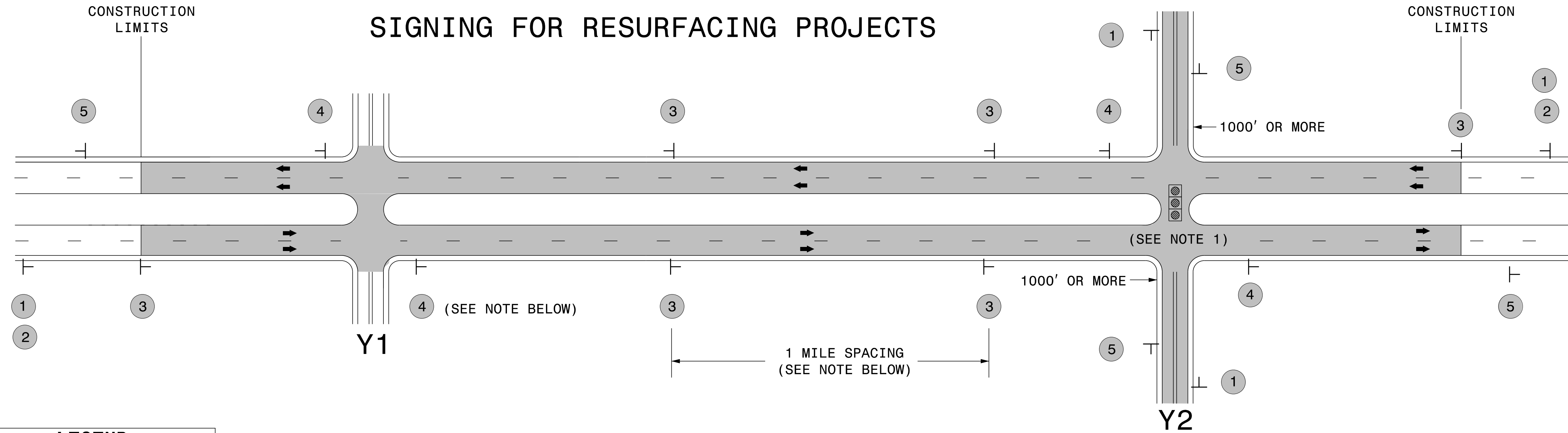
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 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.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> LESS THAN 1000' OF RESURFACING ALONG -Y- LINE SUBDIVISION ROADS 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> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>W20-1 48" X 48"</p> </div> <div style="text-align: center;"> <p>W20-7 A 48" X 48"</p> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 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	 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 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 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	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		



RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS



LEGEND
 ┆ STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

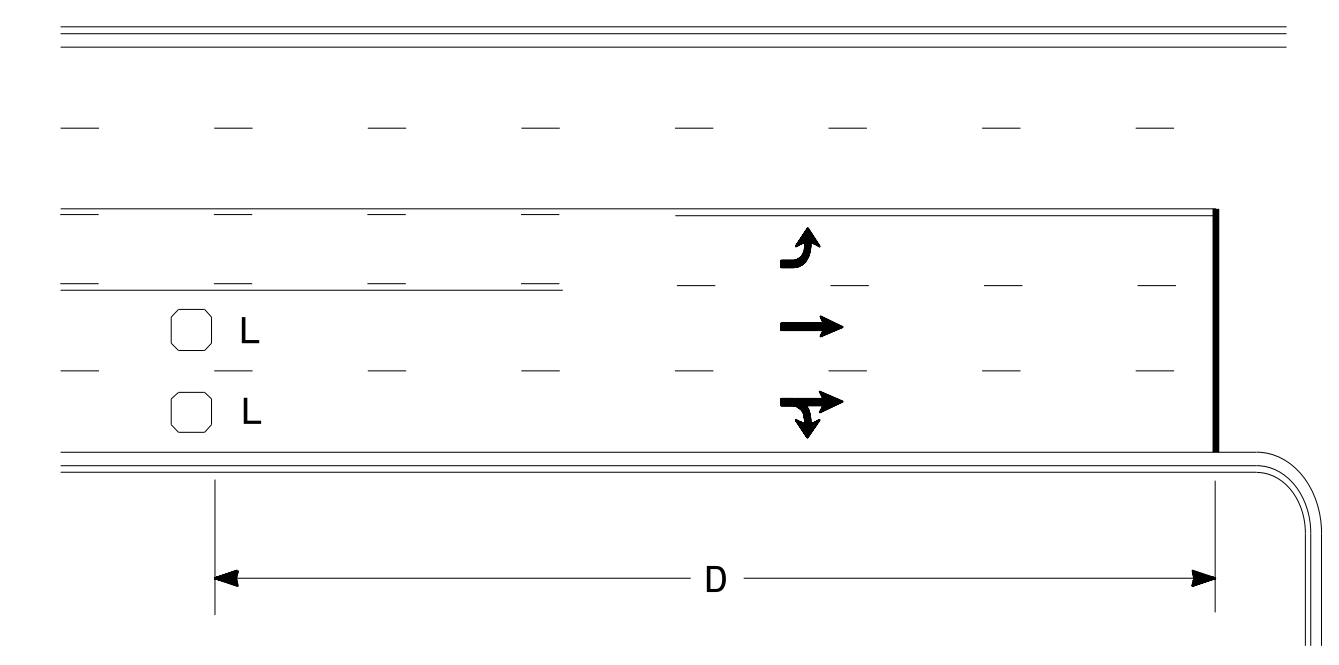
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 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.	<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> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 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.
	2	 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	 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 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 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	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

3/23/2015
 C:\Users\rmgarrrett\Downloads\Resurfacing_AdvWarn_Ltr-Su_Shldr.dgn
 User:rmgarrrett

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

High Speed Detection (≥40 mph)

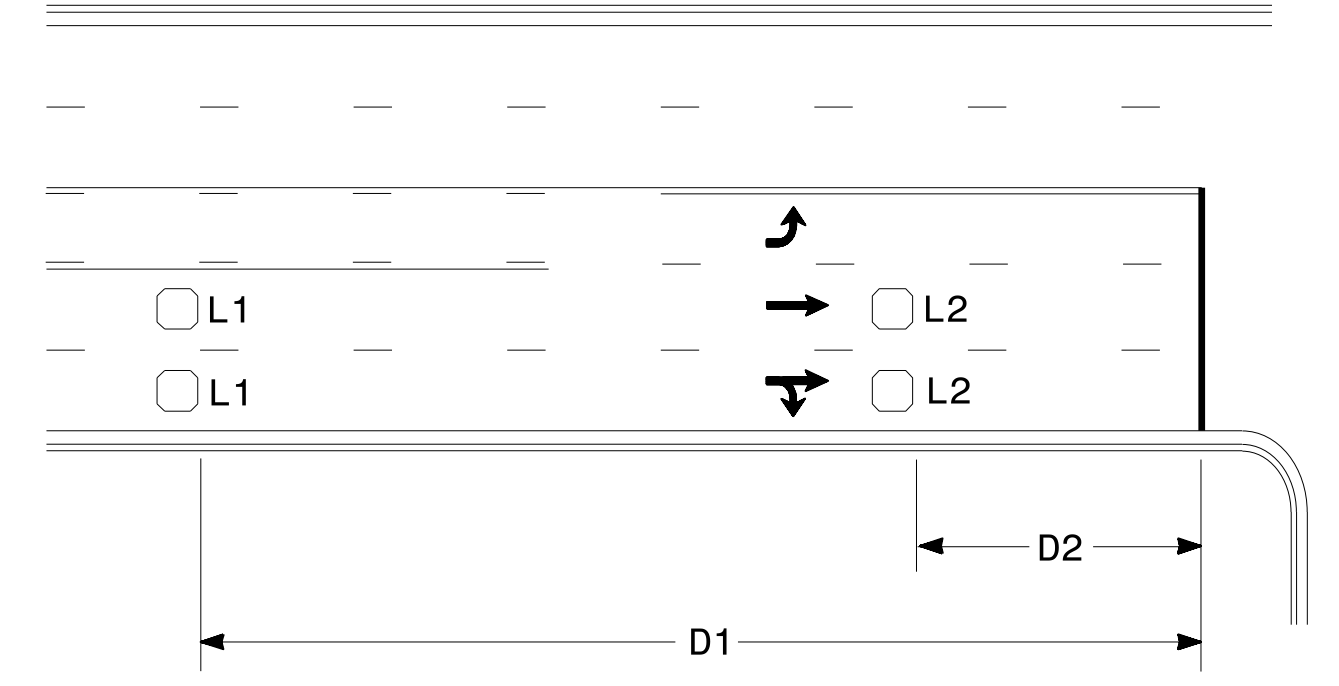


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired in series for TS1
Controllers
Wired separately for TS2,
170, and 2070L Controllers

Volume Density Operation

OR

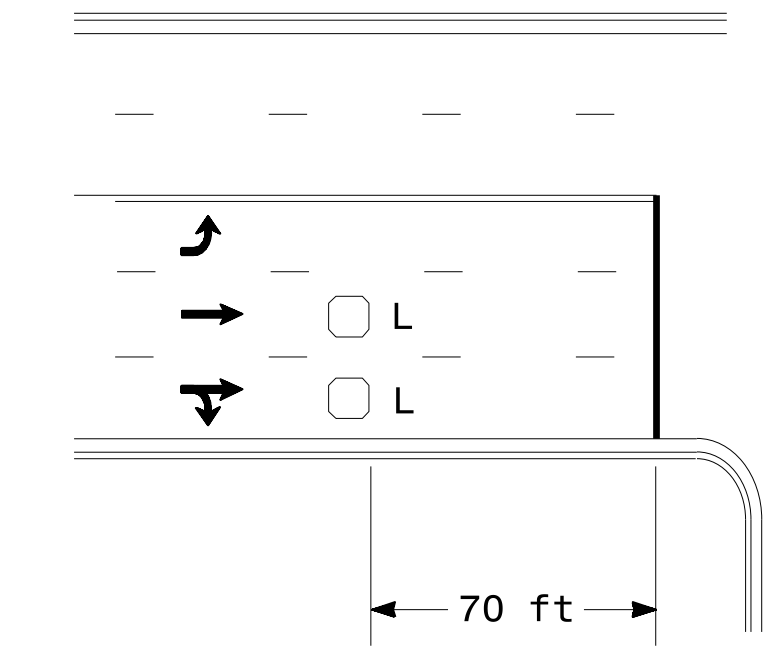


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series
L2 = 6ft X 6ft
Wired in series

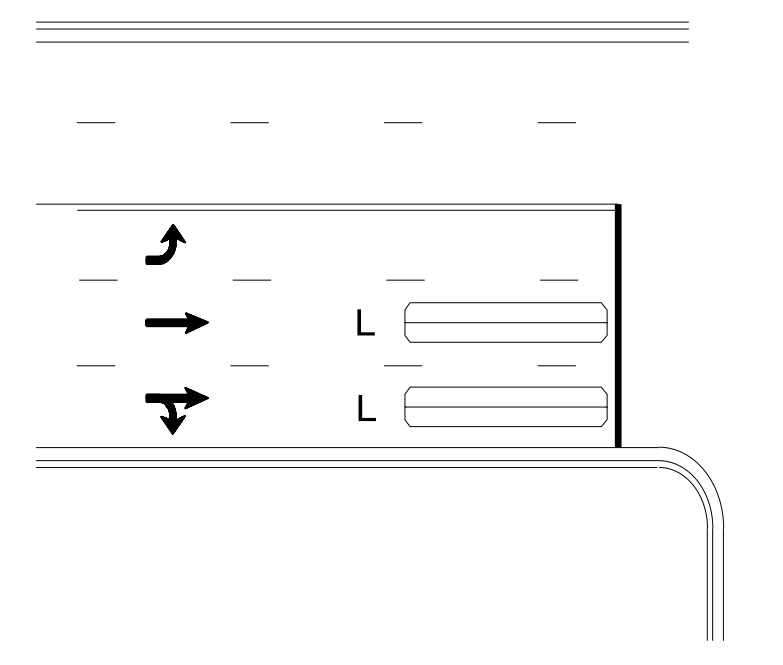
"Stretch" Operation

Low Speed Detection (≤35 mph)



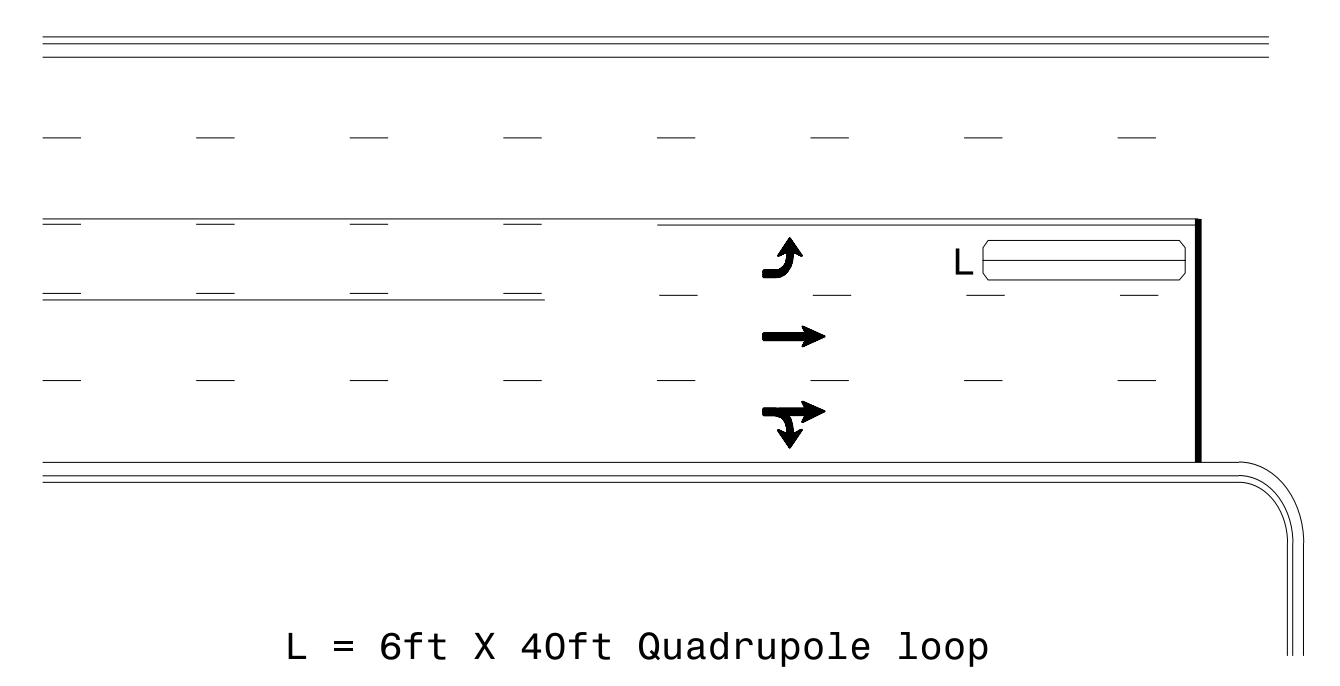
L = 6ft X 6ft
Wired in series

OR



L = 6ft X 40ft
Quadrupole loop, wired separately

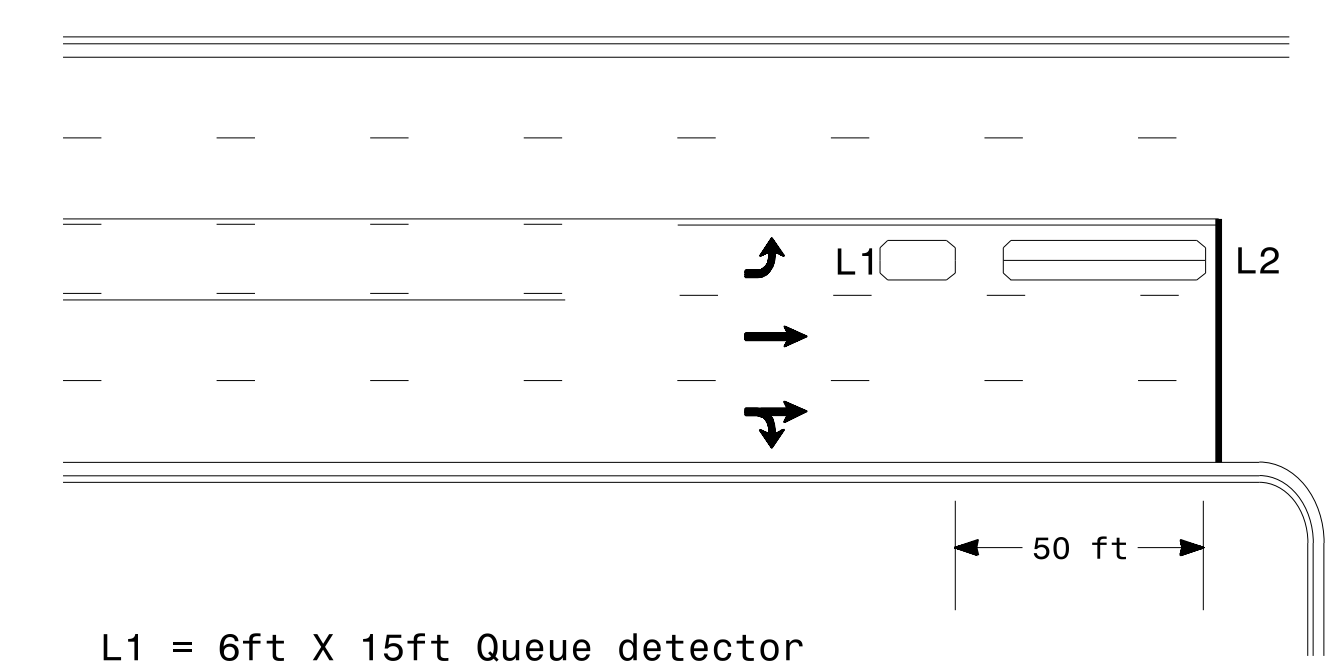
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

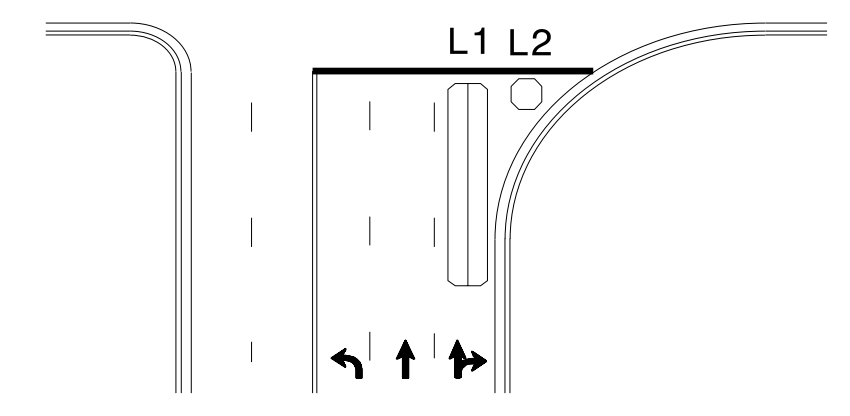
OR



L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

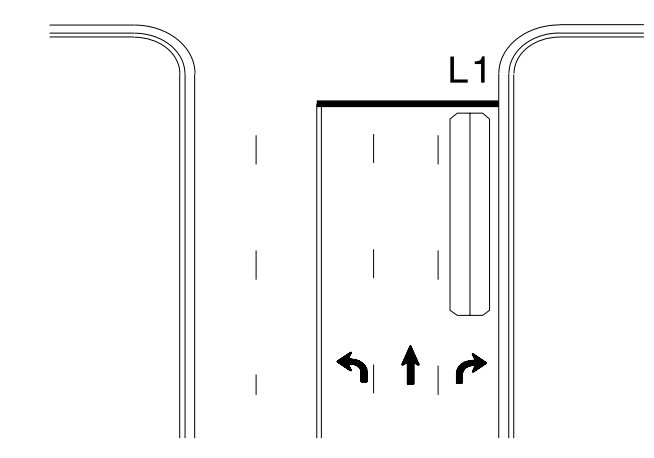
Queue Loop Detection

Right Turn Lane Detection

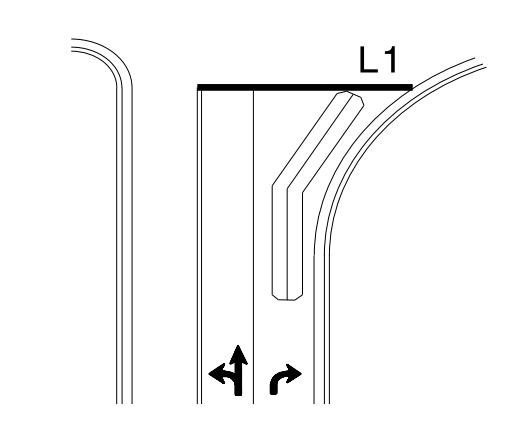


Shared Lane/
Wide Radius Turn

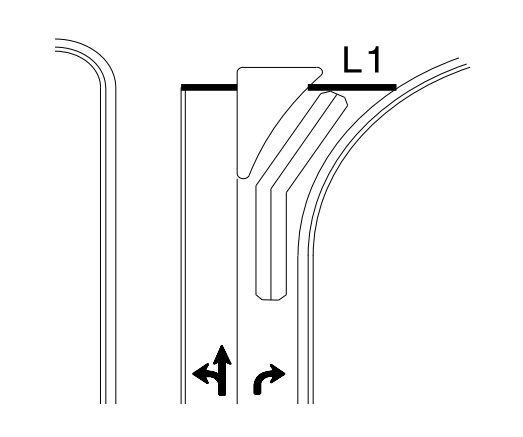
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

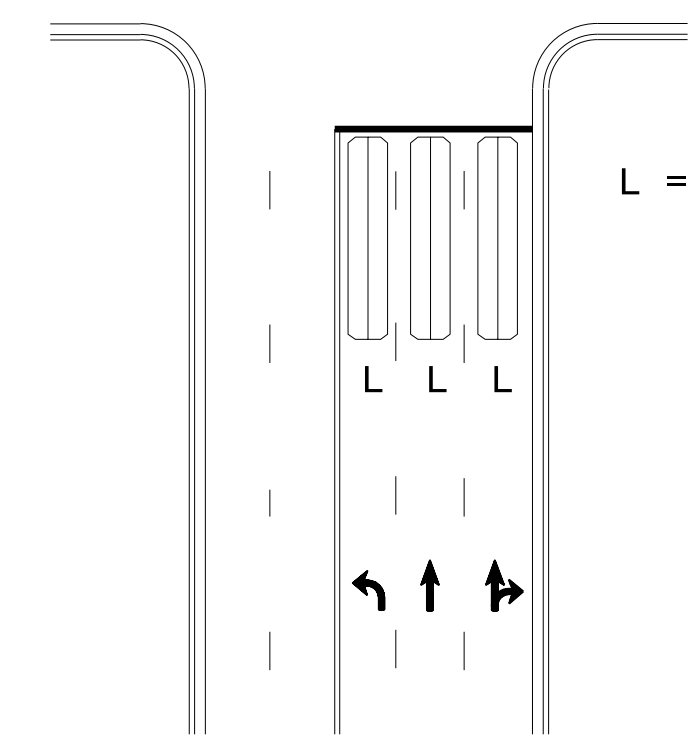


Wide Radius Turn



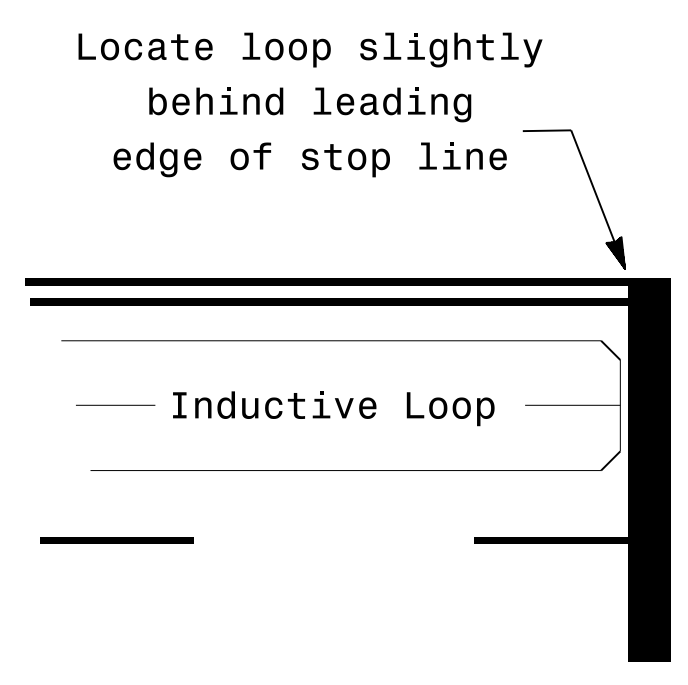
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Locate loop slightly
behind leading
edge of stop line

Note:
Loop may be located in advance
of stop line under any of the
following conditions:
1) stop line is greater than 15'
from edge of intersecting
roadway
2) loop detects a permissive or
protected/permissive left turn
3) for an exclusive right turn
lane

Recommended Number of Turns

Single 6' X 6' loop
(when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns
6' X 15' Loops:
Lead-in < 150', use 2 turns
Lead-in > 150', use 3 turns

750 N. Greenfield Pkwy, Garner, NC 27529

Typical Signal Loop Locations

PLAN DATE: January 2015	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:
REVISIONS	INIT. DATE

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
PAMELA L. ALEXANDER
23489

1/30/2015

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.

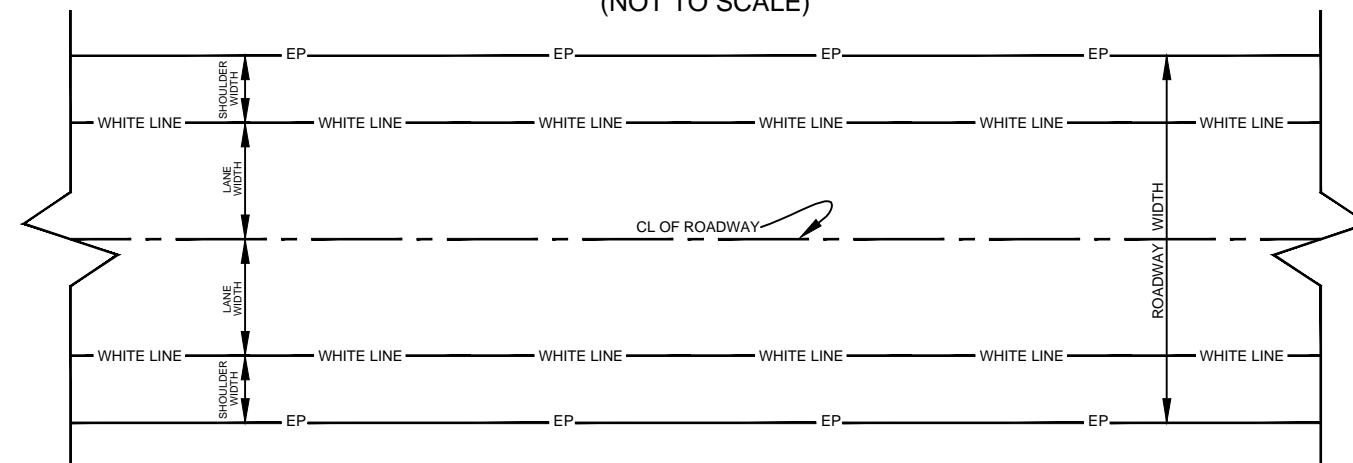
TWO LANE - TWO WAY ROADWAY - 55 MPH		
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH
18'	9' *	0'
20'	10' *	0'
22'	10'	1'
24'	10'	2'
26'	11'	2'
28'	12'	2'
32'	12'	4'

* 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)



SUMMARY OF QUANTITIES

													PROJECT NO.		SHEET NO.	TOTAL NO.				
													2021CPT.06.02.10241.1, 2021CPT.06.02.20241.1							
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1245000000-E	1260000000-E	1297000000-E		1330000000-E	1491000000-E	1503000000-E	1519000000-E	
												SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	0.75" MILLING	4" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	INTERMEDIATE COURSE, I19.0C	SURFACE COURSE, S9.5B	
												MI	FT	SMI	TON	SY	SY	SY	TONS	TONS
2021CPT.06.02.10241.1	Columbus	1	US 701 BYP.	FROM SOUTH CAROLINA LINE TO SR 1308	1	3	MU	NO	NO	2.3	41	4.60	744	52,043	8,777	578		1,251		
TOTAL FOR MAP NO. 1										2.3		4.60	744	52,043	8,777	578		1,251		
TOTAL FOR PROJ NO. 2021CPT.06.02.10241.1										2.3		4.60	744	52,043	8,777	578		1,251		
													60,820							
2021CPT.06.02.20241.1	Columbus	2	SR 1312	FROM SR 1314 TO US 701	2	2	2WU	NO	NO	2.02	20	4.00	653			133	149		2,032	
TOTAL FOR MAP NO. 2										2.02		4.00	653			133	149		2,032	
2021CPT.06.02.20241.1	Columbus	3	SR 1314	FROM NC 410 TO SR 1300	3	2	2WU	NO	NO	2.38	20	4.80	770	26,776		178	175		2,305	
TOTAL FOR MAP NO. 3										2.38		4.80	770	26,776		178	175		2,305	
2021CPT.06.02.20241.1	Columbus	4	SR 1317	FROM SR 1314 TO SR 1329	4	2	2WU	NO	NO	1.6	18	3.20	517			178			1,443	
TOTAL FOR MAP NO. 4										1.6		3.20	517			178			1,443	
2021CPT.06.02.20241.1	Columbus	5	SR 1318	FROM SR 1329 TO SR 1317	4	2	2WU	NO	NO	2.63	20	5.30	851			222			2,608	
TOTAL FOR MAP NO. 5										2.63		5.30	851			222			2,608	
2021CPT.06.02.20241.1	Columbus	6	SR 1319	FROM SR 1323 TO SR 1005	2	2	2WU	NO	NO	1.63	18	3.30	527			222	120		1,513	
TOTAL FOR MAP NO. 6										1.63		3.30	527			222	120		1,513	
2021CPT.06.02.20241.1	Columbus	7	SR 1321	FROM SR 1005 TO SR 1322	2	2	2WU	NO	NO	0.78	20	1.60	252			133	57		807	
TOTAL FOR MAP NO. 7										0.78		1.60	252			133	57		807	
2021CPT.06.02.20241.1	Columbus	8	SR 1322	FROM SR 1326 TO SR 1319	2	2	2WU	NO	NO	0.66	20	1.30	213			133	49		689	
TOTAL FOR MAP NO. 8										0.66		1.30	213			133	49		689	
2021CPT.06.02.20241.1	Columbus	9	SR 1323	FROM US 701 TO SR 1324	2	2	2WU	NO	NO	1.72	18	3.40	556			133	127		1,569	
TOTAL FOR MAP NO. 9										1.72		3.40	556			133	127		1,569	
2021CPT.06.02.20241.1	Columbus	10	SR 1326	FROM SR 1324 TO SR 1005	2	2	2WU	NO	NO	1.2	20	2.40	388			178	88		1,234	
TOTAL FOR MAP NO. 10										1.2		2.40	388			178	88		1,234	
2021CPT.06.02.20241.1	Columbus	11	SR 1327	FROM SR 1324 TO SR 1326	2	2	2WU	NO	NO	0.69	20	1.40	223			178	51		731	
TOTAL FOR MAP NO. 11										0.69		1.40	223			178	51		731	
2021CPT.06.02.20241.1	Columbus	12	SR 1329	FROM SR 1005 TO NC 410	4	2	2WU	NO	NO	1.63	18	3.30	527			178			1,470	
TOTAL FOR MAP NO. 12										1.63		3.30	527			178			1,470	
2021CPT.06.02.20241.1	Columbus	13	SR 1332	FROM US 701 TO SR 1336	2	2	2WU	NO	NO	2.03	18	4.10	657			133	149		1,845	
TOTAL FOR MAP NO. 13										2.03		4.10	657			133	149		1,845	
2021CPT.06.02.20241.1	Columbus	14	SR 1333	FROM US 701 TO SR 1335	2	2	2WU	NO	NO	0.85	18	1.70	275			178	62		806	
TOTAL FOR MAP NO. 14										0.85		1.70	275			178	62		806	
2021CPT.06.02.20241.1	Columbus	15	SR 1335	FROM SR 1332 TO SR 1004	2	2	2WU	NO	NO	1.95	18	3.90	631			178	144		1,786	
TOTAL FOR MAP NO. 15										1.95		3.90	631			178	144		1,786	
2021CPT.06.02.20241.1	Columbus	16	SR 1336	FROM SR 1004 TO SR 1005	2	2	2WU	NO	NO	2.96	18	5.90	957			267	218		2,710	
TOTAL FOR MAP NO. 16										2.96		5.90	957			267	218		2,710	
2021CPT.06.02.20241.1	Columbus	17	SR 1337	FROM SR 1005 TO SR 1336	2	2	2WU	NO	NO	0.96	20	1.90	310			89	71		973	
TOTAL FOR MAP NO. 17										0.96		1.90	310			89	71		973	
2021CPT.06.02.20241.1	Columbus	18	SR 1339	FROM SR 1317 TO NC 410	2	2	2WU	NO	NO	1.25	20	2.50	404			1,117	92		1,284	
TOTAL FOR MAP NO. 18										1.25		2.50	404			1,117	92		1,284	
2021CPT.06.02.20241.1	Columbus	19	SR 1362	FROM SR 1323 TO SR 1322	2	2	2WU	NO	NO	0.64	20	1.30	207			89	47		657	
TOTAL FOR MAP NO. 19										0.64		1.30	207			89	47		657	
2021CPT.06.02.20241.1	Columbus	20	SR 1378	FROM SR 1300 TO SR 1317	2	2	2WU	NO	NO	1.52	18	3.00	492			89	112		1,378	
TOTAL FOR MAP NO. 20										1.52		3.00	492			89	112		1,378	
TOTAL FOR PROJ NO. 2021CPT.06.02.20241.1										29.1		58.30	9,410	26,776		4,006	1,711		27,840	
													26,776							
GRAND TOTAL										31.4		62.90	10,154	78,819	8,777	4,584	1,711		1,251	27,840
													87,596							

SUMMARY OF QUANTITIES

												PROJECT NO.			SHEET NO.	TOTAL NO.			
												2021CPT.06.02.10241.1, 2021CPT.06.02.20241.1							
												1520000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	1891000000-E	7444000000-E	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH		LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	GENERIC PAVING ITEM, PAVEMENT INTERLAYER	INDUCTIVE LOOP SAWCUT	
										MI	FT	TONS	TONS	TONS	TONS	TONS	SY	LF	
2021CPT.06.02.10241.1	Columbus	1	US 701 BYP.	FROM SOUTH CAROLINA LINE TO SR 1308	1	3	MU	NO	NO	2.3	41		4,765	48	349	69	8,777	1,560	
TOTAL FOR MAP NO. 1										2.3			4,765	48	349	69	8,777	1,560	
TOTAL FOR PROJ NO. 2021CPT.06.02.10241.1										2.3			4,765	48	349	69	8,777	1,560	
2021CPT.06.02.20241.1	Columbus	2	SR 1312	FROM SR 1314 TO US 701	2	2	2WU	NO	NO	2.02	20	29			145	61			
TOTAL FOR MAP NO. 2										2.02			29		145	61			
2021CPT.06.02.20241.1	Columbus	3	SR 1314	FROM NC 410 TO SR 1300	3	2	2WU	NO	NO	2.38	20	35			165	71			
TOTAL FOR MAP NO. 3										2.38			35		165	71			
2021CPT.06.02.20241.1	Columbus	4	SR 1317	FROM SR 1314 TO SR 1329	4	2	2WU	NO	NO	1.6	18	21			98	48			
TOTAL FOR MAP NO. 4										1.6			21		98	48			
2021CPT.06.02.20241.1	Columbus	5	SR 1318	FROM SR 1329 TO SR 1317	4	2	2WU	NO	NO	2.63	20	38			177	79			
TOTAL FOR MAP NO. 5										2.63			38		177	79			
2021CPT.06.02.20241.1	Columbus	6	SR 1319	FROM SR 1323 TO SR 1005	2	2	2WU	NO	NO	1.63	18	21			108	49			
TOTAL FOR MAP NO. 6										1.63			21		108	49			
2021CPT.06.02.20241.1	Columbus	7	SR 1321	FROM SR 1005 TO SR 1322	2	2	2WU	NO	NO	0.78	20	11			57	23			
TOTAL FOR MAP NO. 7										0.78			11		57	23			
2021CPT.06.02.20241.1	Columbus	8	SR 1322	FROM SR 1326 TO SR 1319	2	2	2WU	NO	NO	0.66	20	10			49	20			
TOTAL FOR MAP NO. 8										0.66			10		49	20			
2021CPT.06.02.20241.1	Columbus	9	SR 1323	FROM US 701 TO SR 1324	2	2	2WU	NO	NO	1.72	18	22			112	52			
TOTAL FOR MAP NO. 9										1.72			22		112	52			
2021CPT.06.02.20241.1	Columbus	10	SR 1326	FROM SR 1324 TO SR 1005	2	2	2WU	NO	NO	1.2	20	17			88	36			
TOTAL FOR MAP NO. 10										1.2			17		88	36			
2021CPT.06.02.20241.1	Columbus	11	SR 1327	FROM SR 1324 TO SR 1326	2	2	2WU	NO	NO	0.69	20	10			52	21			
TOTAL FOR MAP NO. 11										0.69			10		52	21			
2021CPT.06.02.20241.1	Columbus	12	SR 1329	FROM SR 1005 TO NC 410	4	2	2WU	NO	NO	1.63	18	21			100	49			
TOTAL FOR MAP NO. 12										1.63			21		100	49			
2021CPT.06.02.20241.1	Columbus	13	SR 1332	FROM US 701 TO SR 1336	2	2	2WU	NO	NO	2.03	18	27			132	61			
TOTAL FOR MAP NO. 13										2.03			27		132	61			
2021CPT.06.02.20241.1	Columbus	14	SR 1333	FROM US 701 TO SR 1335	2	2	2WU	NO	NO	0.85	18	11			58	26			
TOTAL FOR MAP NO. 14										0.85			11		58	26			
2021CPT.06.02.20241.1	Columbus	15	SR 1335	FROM SR 1332 TO SR 1004	2	2	2WU	NO	NO	1.95	18	25			128	59			
TOTAL FOR MAP NO. 15										1.95			25		128	59			
2021CPT.06.02.20241.1	Columbus	16	SR 1336	FROM SR 1004 TO SR 1005	2	2	2WU	NO	NO	2.96	18	39			194	89			
TOTAL FOR MAP NO. 16										2.96			39		194	89			
2021CPT.06.02.20241.1	Columbus	17	SR 1337	FROM SR 1005 TO SR 1336	2	2	2WU	NO	NO	0.96	20	14			69	29			
TOTAL FOR MAP NO. 17										0.96			14		69	29			
2021CPT.06.02.20241.1	Columbus	18	SR 1339	FROM SR 1317 TO NC 410	2	2	2WU	NO	NO	1.25	20	18			91	38			
TOTAL FOR MAP NO. 18										1.25			18		91	38			
2021CPT.06.02.20241.1	Columbus	19	SR 1362	FROM SR 1323 TO SR 1322	2	2	2WU	NO	NO	0.64	20	9			47	19			
TOTAL FOR MAP NO. 19										0.64			9		47	19			
2021CPT.06.02.20241.1	Columbus	20	SR 1378	FROM SR 1300 TO SR 1317	2	2	2WU	NO	NO	1.52	18	20			99	46			
TOTAL FOR MAP NO. 20										1.52			20		99	46			
TOTAL FOR PROJ NO. 2021CPT.06.02.20241.1										29.1			398		1,969	876			
GRAND TOTAL													31.4		48	2,318	945	8,777	1,560

THERMOPLASTIC AND PAINT QUANTITIES

										PROJECT NO.		SHEET NO.	TOTAL NO.							
										2021CPT.06.02.10241.1, 2021CPT.06.02.20241.1										
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH		WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4686000000-E		4700000000-E	4710000000-E	4725000000-E				
								MI	FT			SF	LS	LF	LF	LF	LF	EA	EA	EA
2021CPT.06.02.10241.1	Columbus	1	US 701 BYP.	FROM SOUTH CAROLINA LINE TO SR 1308	1	3	MU	2.3	41	257	1	24,288	1,915	36,756	225	230	22	50	6	2
TOTAL FOR MAP NO. 1								2.3		257	1	24,288	1,915	36,756	225	230	22	50	6	2
TOTAL FOR PROJ NO. 2021CPT.06.02.10241.1								2.3		257	1	24,288	1,915	36,756	225	230	22	50	6	2
												38,671		80						
2021CPT.06.02.20241.1	Columbus	2	SR 1312	FROM SR 1314 TO US 701	2	2	2WU	2.02	20	226										
TOTAL FOR MAP NO. 2								2.02		226										
2021CPT.06.02.20241.1	Columbus	3	SR 1314	FROM NC 410 TO SR 1300	3	2	2WU	2.38	20	377										
TOTAL FOR MAP NO. 3								2.38		377										
2021CPT.06.02.20241.1	Columbus	4	SR 1317	FROM SR 1314 TO SR 1329	4	2	2WU	1.6	18	179		17,216		14,361						
TOTAL FOR MAP NO. 4								1.6		179		17,216		14,361						
2021CPT.06.02.20241.1	Columbus	5	SR 1318	FROM SR 1329 TO SR 1317	4	2	2WU	2.63	20	295										
TOTAL FOR MAP NO. 5								2.63		295										
2021CPT.06.02.20241.1	Columbus	6	SR 1319	FROM SR 1323 TO SR 1005	2	2	2WU	1.63	18	183										
TOTAL FOR MAP NO. 6								1.63		183										
2021CPT.06.02.20241.1	Columbus	7	SR 1321	FROM SR 1005 TO SR 1322	2	2	2WU	0.78	20	87										
TOTAL FOR MAP NO. 7								0.78		87										
2021CPT.06.02.20241.1	Columbus	8	SR 1322	FROM SR 1326 TO SR 1319	2	2	2WU	0.66	20	74										
TOTAL FOR MAP NO. 8								0.66		74										
2021CPT.06.02.20241.1	Columbus	9	SR 1323	FROM US 701 TO SR 1324	2	2	2WU	1.72	18	193		18,507		15,437						
TOTAL FOR MAP NO. 9								1.72		193		18,507		15,437						
2021CPT.06.02.20241.1	Columbus	10	SR 1326	FROM SR 1324 TO SR 1005	2	2	2WU	1.2	20	134										
TOTAL FOR MAP NO. 10								1.2		134										
2021CPT.06.02.20241.1	Columbus	11	SR 1327	FROM SR 1324 TO SR 1326	2	2	2WU	0.69	20	77										
TOTAL FOR MAP NO. 11								0.69		77										
2021CPT.06.02.20241.1	Columbus	12	SR 1329	FROM SR 1005 TO NC 410	4	2	2WU	1.63	18	183										
TOTAL FOR MAP NO. 12								1.63		183										
2021CPT.06.02.20241.1	Columbus	13	SR 1332	FROM US 701 TO SR 1336	2	2	2WU	2.03	18	227										
TOTAL FOR MAP NO. 13								2.03		227										
2021CPT.06.02.20241.1	Columbus	14	SR 1333	FROM US 701 TO SR 1335	2	2	2WU	0.85	18	95										
TOTAL FOR MAP NO. 14								0.85		95										
2021CPT.06.02.20241.1	Columbus	15	SR 1335	FROM SR 1332 TO SR 1004	2	2	2WU	1.95	18	218										
TOTAL FOR MAP NO. 15								1.95		218										
2021CPT.06.02.20241.1	Columbus	16	SR 1336	FROM SR 1004 TO SR 1005	2	2	2WU	2.96	18	332		31,850		26,567						
TOTAL FOR MAP NO. 16								2.96		332		31,850		26,567						
2021CPT.06.02.20241.1	Columbus	17	SR 1337	FROM SR 1005 TO SR 1336	2	2	2WU	0.96	20	108										
TOTAL FOR MAP NO. 17								0.96		108										
2021CPT.06.02.20241.1	Columbus	18	SR 1339	FROM SR 1317 TO NC 410	2	2	2WU	1.25	20	140										
TOTAL FOR MAP NO. 18								1.25		140										
2021CPT.06.02.20241.1	Columbus	19	SR 1362	FROM SR 1323 TO SR 1322	2	2	2WU	0.64	20	72										
TOTAL FOR MAP NO. 19								0.64		72										
2021CPT.06.02.20241.1	Columbus	20	SR 1378	FROM SR 1300 TO SR 1317	2	2	2WU	1.52	18	170										
TOTAL FOR MAP NO. 20								1.52		170										
TOTAL FOR PROJ NO. 2021CPT.06.02.20241.1								29.1		3,370		67,573		56,365						
												56,365		80						
GRAND TOTAL								31.4		3,627	1	91,861	1,915	93,121	225	230	22	50	6	2
												95,036		80						

