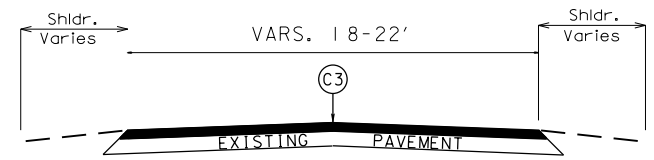
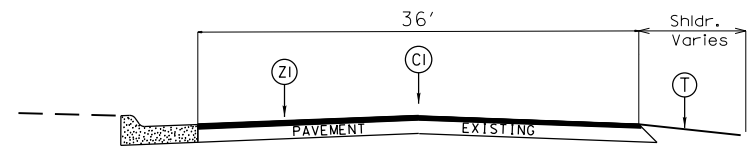


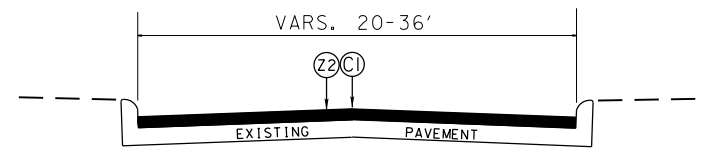
TYPICAL SECTION NO. 1
 MAP # 1 - (entire map)
 MAP # 2 - 53+33 to 69+70
 MAP # 3 - 0+00 to 18+90
 MAP # 14 - (entire map)
 MAP # 26 - (entire map)



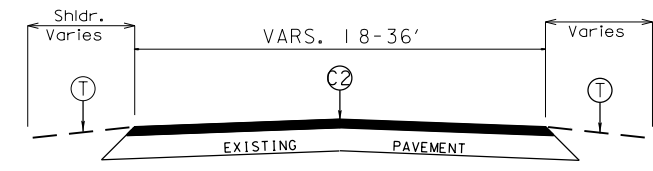
TYPICAL SECTION NO. 6
 MAP # 11 - (entire map)
 MAP # 12 - (entire map)
 MAP # 21 - (entire map)
 MAP # 23 - (entire map)
 MAP # 24 - (entire map)
 MAP # 27 - (entire map)
 MAP # 28 - (entire map)
 MAP # 29 - (entire map)
 MAP # 30 - (entire map)
 MAP # 31 - (entire map)



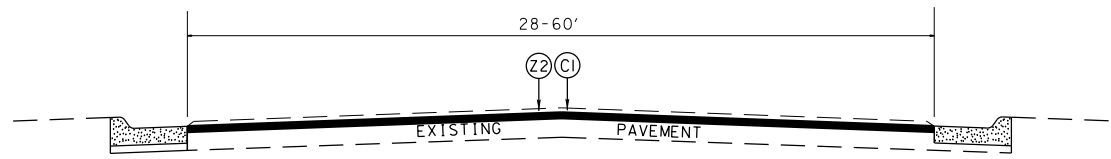
TYPICAL SECTION NO. 2
 MAP # 2 - 49+20 to 53+33



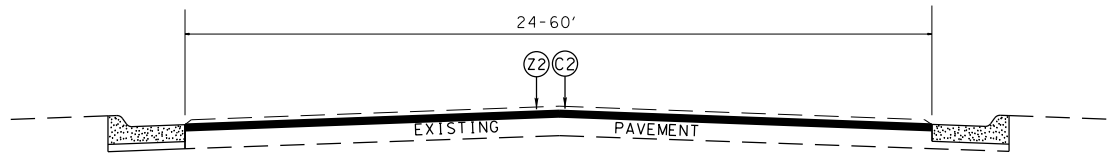
TYPICAL SECTION NO. 3
 MAP # 2 - 11+25 to 49+20



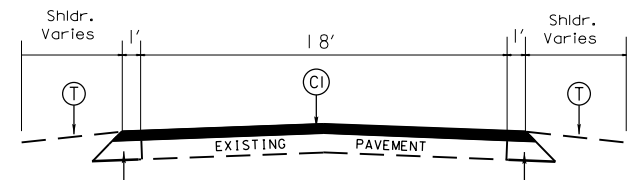
TYPICAL SECTION NO. 4
 MAP # 6 - (entire map)
 MAP # 7 - (entire map)
 MAP # 8 - (entire map)
 MAP # 9 - (entire map)
 MAP # 10 - (entire map)
 MAP # 13 - 97+60 to 122+50
 MAP # 15 - (entire map)
 MAP # 20 - (entire map)
 MAP # 22 - (entire map)
 MAP # 25 - (entire map)



TYPICAL SECTION NO. 7
 MAP # 2 - 0+00 TO 11+25
 MAP # 3 - 18+90 to 23+76
 MAP # 4 - (entire map)
 MAP # 5 - (entire map)



TYPICAL SECTION NO. 8
 MAP # 16 - (entire map)
 MAP # 17 - (entire map)
 MAP # 18 - (entire map)
 MAP # 19 - (entire map)



TYPICAL SECTION NO. 5
 MAP # 13 - 0+00 to 97+60
 MAP # 13 - 122+50 to 170+65

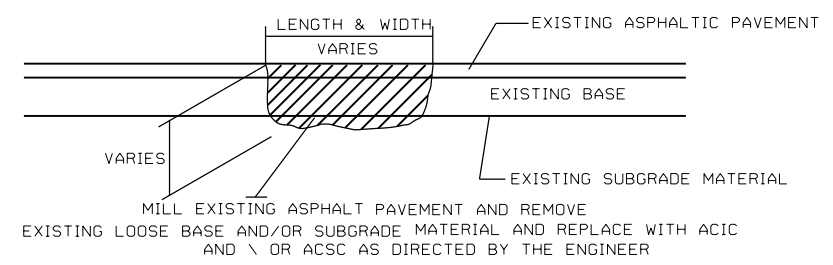
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
E	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD., IN EACH OF TWO LIFTS.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION, WIDTH VARIES 2'-6')
Z1	MILL ASPHALT PAVEMENT APPROXIMATELY 0" TO 1.5" DEPTH, 0" ON CENTER AND 1.5" AT CURB
Z2	MILL ASPHALT PAVEMENT APPROXIMATELY 1.5" DEPTH
Y1	INCIDENTAL MILLING

2019-2020
 Resurfacing Program
 Typical Sections
 Catawba County NC

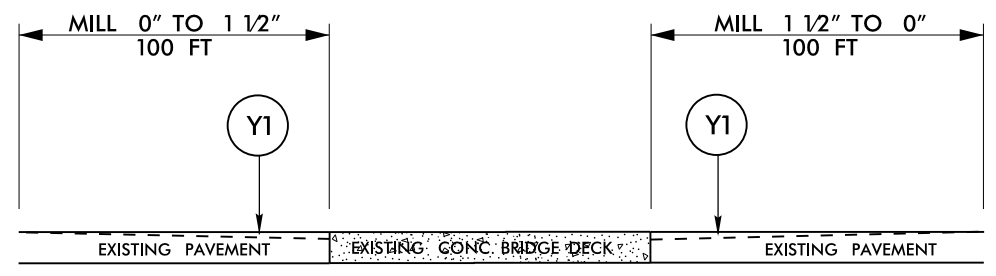
Checked by: Drawn by: G. Brittain

STATE	PROJECT WBS	SHEET NUMBER
NC	2019CPT.12.05.10181	9
	2019CPT.12.05.20181	

DETAIL A
PATCHING EXISTING PAVEMENT

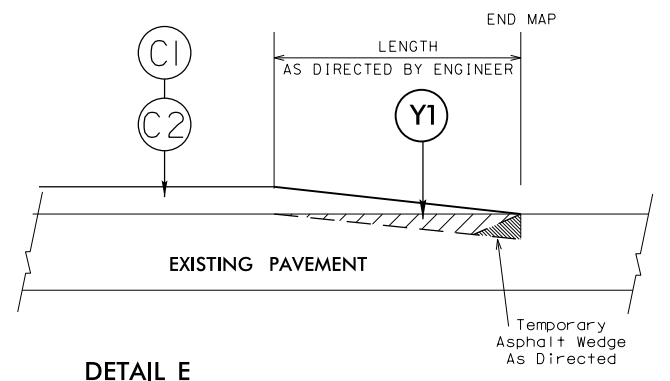
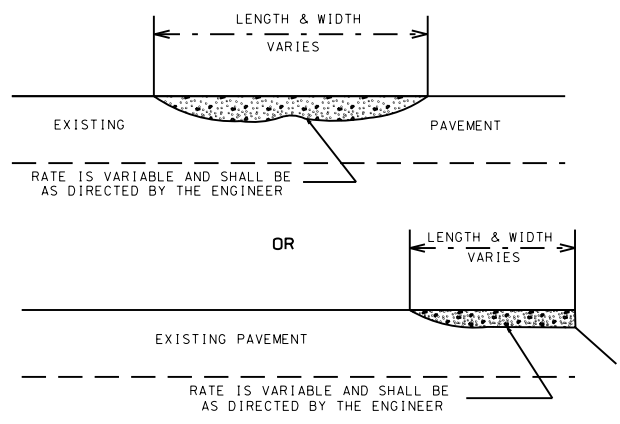


DETAIL D
MILLING BRIDGE APPROACHES



DETAIL B

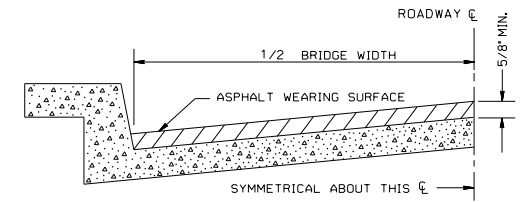
ASPHALT CONCRETE SURFACE COURSE
TYPE S9.5B OR S9.5C (LEVELING COURSE)



DETAIL E
TIE-IN (INCIDENTAL) MILLING DETAIL

DETAIL C

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.

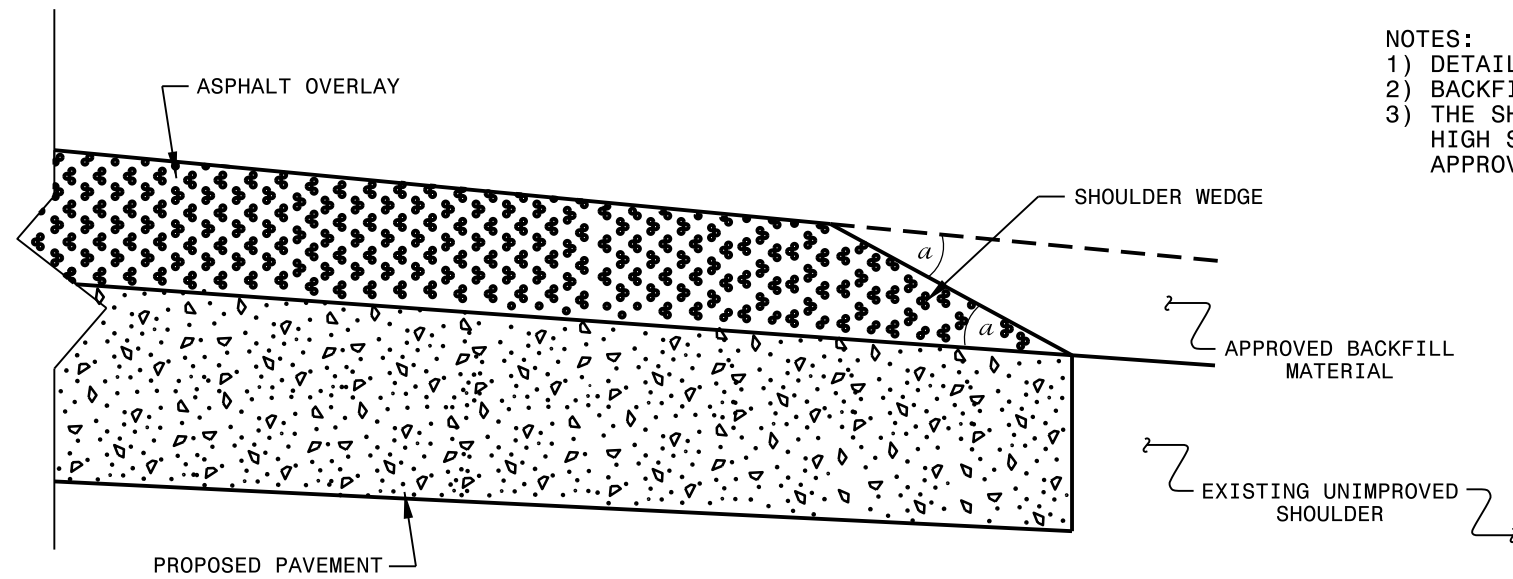
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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Y1	INCIDENTAL MILLING

2019-2020
Resurfacing Program
Typical Sections
Catawba County NC

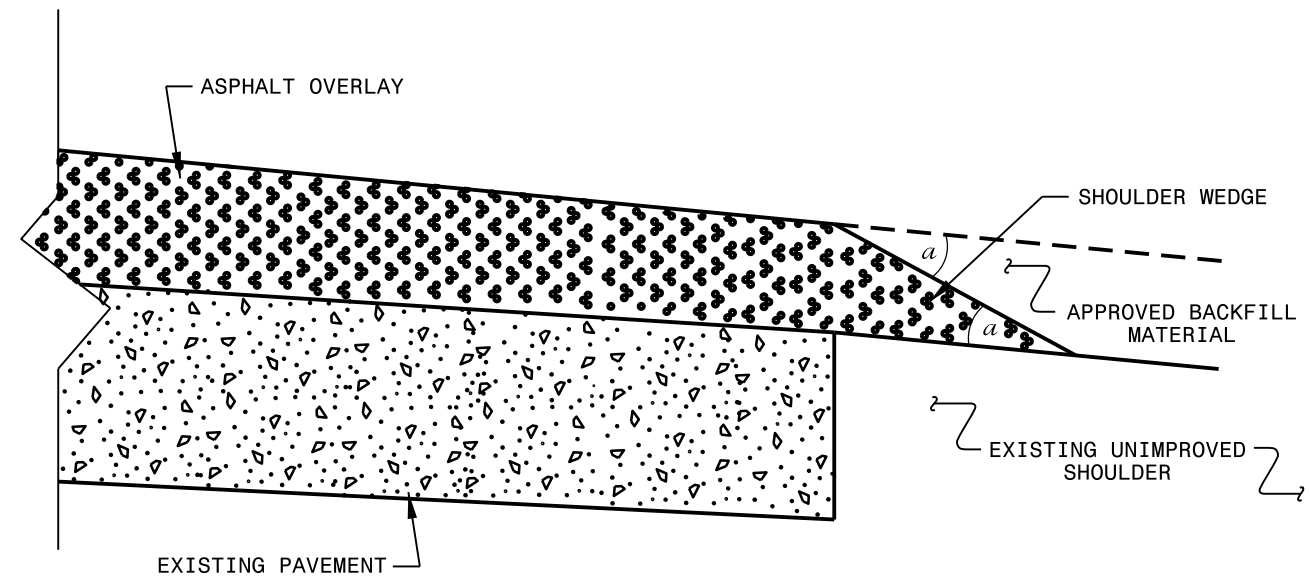
Checked by: _____
Drawn by: G. Brittain

NOTES:

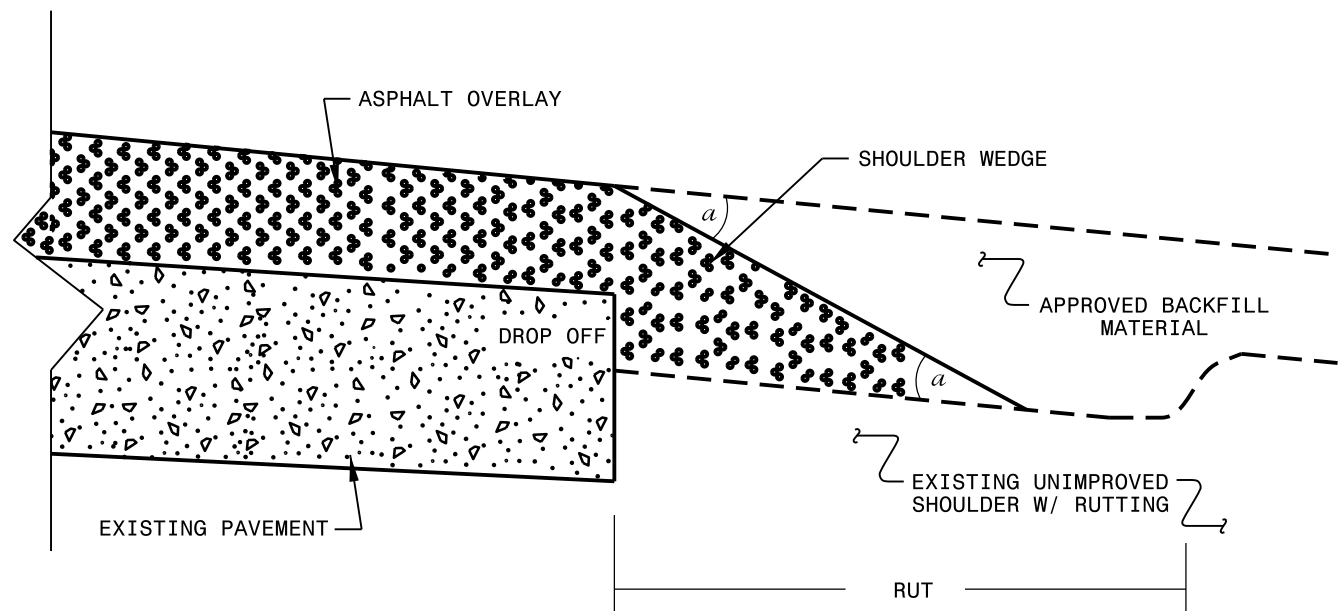
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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°

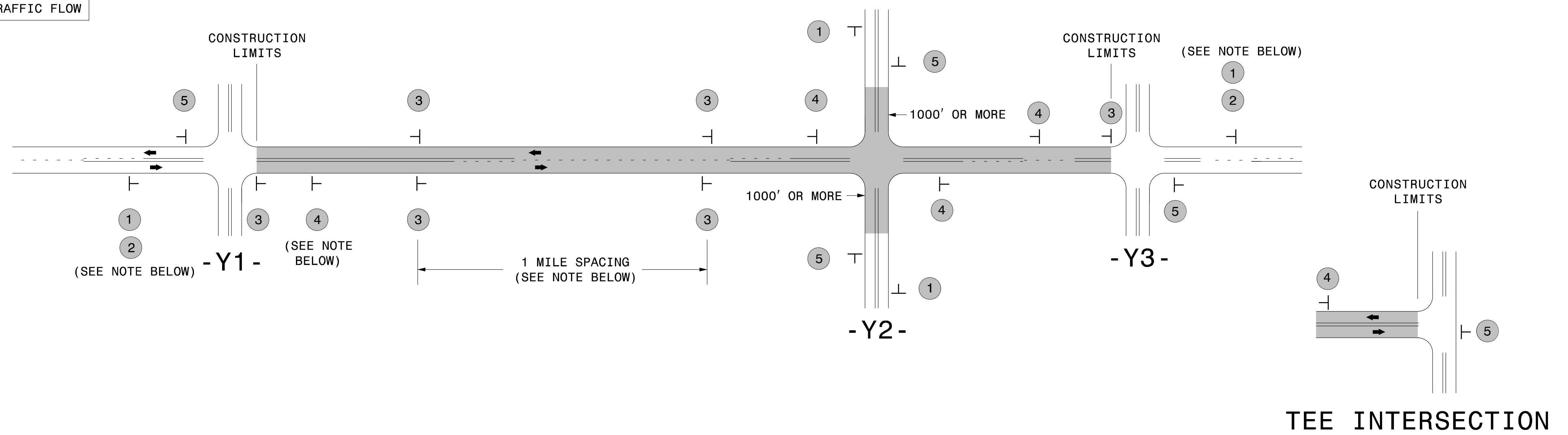
CONTRACT STANDARDS AND DEVELOPMENT UNIT		
Office 919-707-6950 FAX 919-250-4119		
SHOULDER WEDGE DETAILS		
ORIGINAL BY: T.SPELL	DATE: 7-19-11	
MODIFIED BY:	DATE: 2/2/16	
CHECKED BY:	DATE:	
FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANE S	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRE D	LENGTH	WIDT H	INC. STON E BASE	SH. RECON STRUCT ION	ASB	1½" MILLING	0" TO 1.5" MILLING	INC. MILLIN G	B25.0C	S9.5C	S9.5B	S9.5B (LEVELIN G COURSE)	S9.5C (LEVELING COURSE)	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	RETRO-FIT EXI. CURB RAMP	REM. & REPLACE CONC RAMPS	ADJ. OF MAN-HOLES	ADJ. OF METER/ VALVE BOXES	PORTABLE LIGHTING	JUNCTION BOX (STANDARD SIZE)	INDUCTI VE LOOP	LEAD-IN CABLE (14-2)			
																																	MI	FT	TON
2019CPT.12.05.10181	Catawba	1	NC 127	FROM NC 10 TO PROJECT LIMITS OF U-2530A NEAR SR 1132 (HUFFMAN FARM RD)	1	2	2WD	NO	NO	2.32	24-36		4.64	232			1,000		3,600			10	217	200						3	250	100			
		2	NC 10	FROM US 321 BUS TO NC 16 BUS	1, 2, 3, 7	2	2WD	NO	NO	1.32	24-60		0.70	45	18,614	2,250	540		2,447				147		6	3	10	12	*		500	750			
		3	NC 16 BUS	FROM NC 10 TO NC 16	1, 7	2	2WD	NO	NO	0.81	24-48		1.44	72	2,250					1,166				70					*		250	100			
		4	NC 16 BUS (N/S MAIN ST)	FROM NC 10 TO SR 1481(7TH ST PL SW)	7	2	2WD	NO	NO	2.92	24-45									28,000				4,800		6	7	30	11	*		3,000	1,200		
		*Note Section between A Street and 2nd Street to be omitted due to City Street Scape Project: Contractor to tie into either end of project limits																																	
5	NC 16 BUS(N/S COLLEGE AVE)	FROM NC 10 TO NC 16 BUS	7	2	2WD	NO	NO	0.53	36-40						8,810							777			8	11	8	*	2	900	1,500				
*Note Section between A Street and 2nd Street to be omitted due to City Street Scape Project: Contractor to tie into either end of project limits																																			
TOTAL FOR PROJ NO. 2019CPT.12.05.10181																																			
										7.9			6.78	349	57,674	2,250	1,540		12,790			10	769	200	12	18	51	31	1	5	4,900	3,650			
2019CPT.12.05.20181	Catawba	6	SR 1132 (HUFFMAN FARM RD)	FROM PROJECT LIMITS OF U-2530A NEAR NC 127 TO SR 1131 (PITTSTOWN RD)	4	2	2WD	NO	NO	0.98	18	10	1.96	100						914	305		82	75											
		7	SR 1131 (PITTSTOWN RD)	FROM SR 1176 (BETHEL CH RD) TO SR 1008 (ZION CH RD)	4	2	2WD	NO	NO	3.87	18	50	7.74	390			90				3,607	1,202		322	90										
		8	SR 1133 (SAIN RD)	FROM SR 1176 (BETHEL CH RD) TO SR 1131 (PITTSTOWN RD)	4	2	2WD	NO	NO	1.78	18	10	3.56	180							1,658			111	200										
		9	SR 1139 (FINGER BRIDGE RD)	FROM SR 1131 (PITTSTOWN RD) TO NC 10	4	2	2WD	NO	NO	3.09	18	20	6.18	310							2,878	960		257	70										
		10	SR 1008 (HICKORY-LINCOLNTON HWY)	FROM SR 2021 (BLACKBURN BRIDGE RD) TO LINCOLN CO	4	2	2WD	NO	NO	1.73	19	10	6.92	350							1,701			114	40										
		11	SR 2951 (DEN DR)	FROM SR 1008 (ZION CH RD) TO CUL-DE-SAC	6	2	2WD	NO	NO	0.131	19													110	7	20									
		12	SR 2111 (MAIDEN WOOD CIR)	FROM SR 2004 (SALEM CH RD) TO SR 2111 (MAIDEN WOOD CIR)	6	2	2WD	NO	NO	0.925	20													641	43	150									
		"	SR 2113 (LAKOTA WAY RD)	FROM SR 2111 (MAIDEN WOOD CIR) TO CUL-DE-SAC	6	2	2WD	NO	NO	0.099	19													121	8	20									
		"	SR 2112 (SEMINOLE TRAIL RD)	FROM SR 2111 (MAIDEN WOOD CIR) TO CUL-DE-SAC	6	2	2WD	NO	NO	0.154	19													121	8	10									
		13	SR 2019 (ROCKY FORD RD)	FROM SR 1005 (STARTOWN RD) TO PVMT CHANGE	4, 5	2	2WD	NO	NO	3.24	20	20	6.48	325				1,350	2,960	4,027				375											
		14	SR 1482 (4TH STREET SW)	FROM US 70 TO SR 2375 (BUMGARNER INDUSTRIAL DR SW)	1	2	2WU	NO	NO	0.87	24		1.74	90							1,171			70	200										
		15	SR 2376 (REESE DR SW)	FROM SR 1482 (4TH ST SW) TO END MAINT	4	2	2WD	NO	NO	1.04	24		2.08	105										1,292	87	350									
		16	SR 1306 (2ND AVE NE)	FROM NC 127 TO 9TH ST NW	8	2	2WD	NO	NO	0.94	30						16,545							1,390	93	20	10		30	7					
		17	SR 1354 (3RD AVE CT NW)	FROM SR 1314 (3ND AVE NW) TO SR 1306 (2ND AVE NE)	8	2	2WD	NO	NO	0.14	24						1,971							174	12				2						
		18	SR 1355 (3RD AVE DR NW)	SR 1314 (3ND AVE NW) TO SR 1306 (2ND AVE NW)	8	2	2WD	NO	NO	0.14	24						1,971							174	12	50			4						
		19	SR 1453 (SPRINGS ROAD NE)	FROM SR 1491 (SECTION HOUSE RD) TO SR 1007 (HIGHLAND AVE NE)	8	2	2WD	NO	NO	2.8	60						98,560							8,694	582				20	24					
		20	SR 1401 (16TH ST NE)	FROM SR 1400 (KOOL PARK RD NE) TO SR 1402 (29TH AVE DR NE)	4	2	2WD	NO	NO	1.3	24		2.60	130										1,594	107	450			4						
		21	SR 1500 (31ST AVE DR NE)	FROM SR 1401 (16TH ST NE) TO END MAINT	6	2	2WD	NO	NO	0.77	18													472	32	20									
		22	SR 1507 (SNOW CREEK RD NE)	FROM SR 1401 (16TH ST NE) TO SR 1529 (SULFER SPRINGS RD NE)	4	2	2WD	NO	NO	1.85	24	20	3.70	200										2,268	152	150									
		23	SR 1519 (VALWOOD RD)	FROM SR 1453 (ST PETERS CH RD) TO END MAINT	6	2	2WD	NO	NO	1.11	20	10												755	51	300									
		24	SR 1550 (WEDGE WOOD DR)	FROM SR 1519 (VALWOOD RD) TO END MAINT	6	2	2WD	NO	NO	0.43	20	10												293	20	100									
		25	SR 1711 (SHOOK RD)	FROM NC 16 TO SR 1709 (ROCK BARN RD)	4	2	2WD	NO	NO	1.52	20	20	3.04	152										1,555	104										
		26	SR 1929 (HEART DR)	FROM US 70 TO END MAINT	1	2	2WD	NO	NO	0.3	24		0.60	30										368	22	50									
		27	SR 2759 (KESTRE VALLEY LN)	FROM SR 1848 (SHERRILLS FORD RD) TO CUL-DE-SAC	6	2	2WD	NO	NO	0.33	20													225	15	80									
		28	SR 2685 (ENERGY LN)	FROM SR 1835 (MOLLY'S BACKBONE RD) TO SR 2686 (RED COOK RD)	6	2	2WD	NO	NO	0.32	20													218	15	75									
		"	SR 2686 (RED COOK RD)	FROM END MAINT TO END MAINT	6	2	2WD	NO	NO	0.13	18													80	5	40									
		29	SR 2738 (CARIBOU DR)	FROM SR 1851 (LINEBERGER RD) TO CUL-DE-SAC	6	2	2WD	NO	NO	0.52	20													354	24	80									
		30	SR 1942 (RIGHT ANGLE ST)	FROM SR 1815 (LITTLE MOUNTAIN RD) TO END MAINT	6	2	2WD	NO	NO	0.49	18													300	20	20									
		31	SR 2773 (LINEBERGER LOOP RD)	FROM SR 1852 (BURRIS RD) TO SR 2774 (LINEBERGER RD)	6	2	2WD	NO	NO	0.63	20													429	29	40									
		"	SR 2774 (LINEBERGER RD)	FROM SR 2773 (LINEBERGER LOOP RD) TO END MAINT	6	2	2WD	NO	NO	0.45	20													306	21	60				1					
"	SR 2775 (MUNDY RD)	FROM SR 2774 (LINEBERGER RD) TO END MAINT	6	2	2WD	NO	NO	0.31	18													190	13	125											
TOTAL FOR PROJ NO. 2019CPT.12.05.20181																																			
										32.389		180	46.60	2,362	119,047		1,440	2,960	5,566	32,514	2,467		2,811	2,885	10	6	54	32							
GRAND TOTAL																																			
										40.289		180	53.38	2,711	176,721	2,250	2,980	2,960	18,356	32,514	2,467	10	3,580	3,085	22	24	105	63	1	5	4,900	3,650			

SIGNING FOR RESURFACING PROJECTS

LEGEND
 ┃ STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

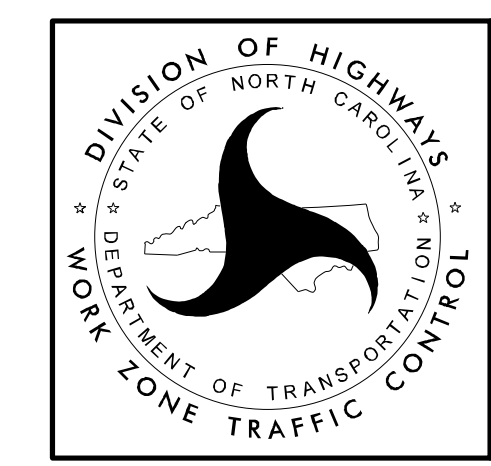
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1		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, PORTABLE ADVANCE WARNING 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;"> W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	2		#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		- 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		- 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		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

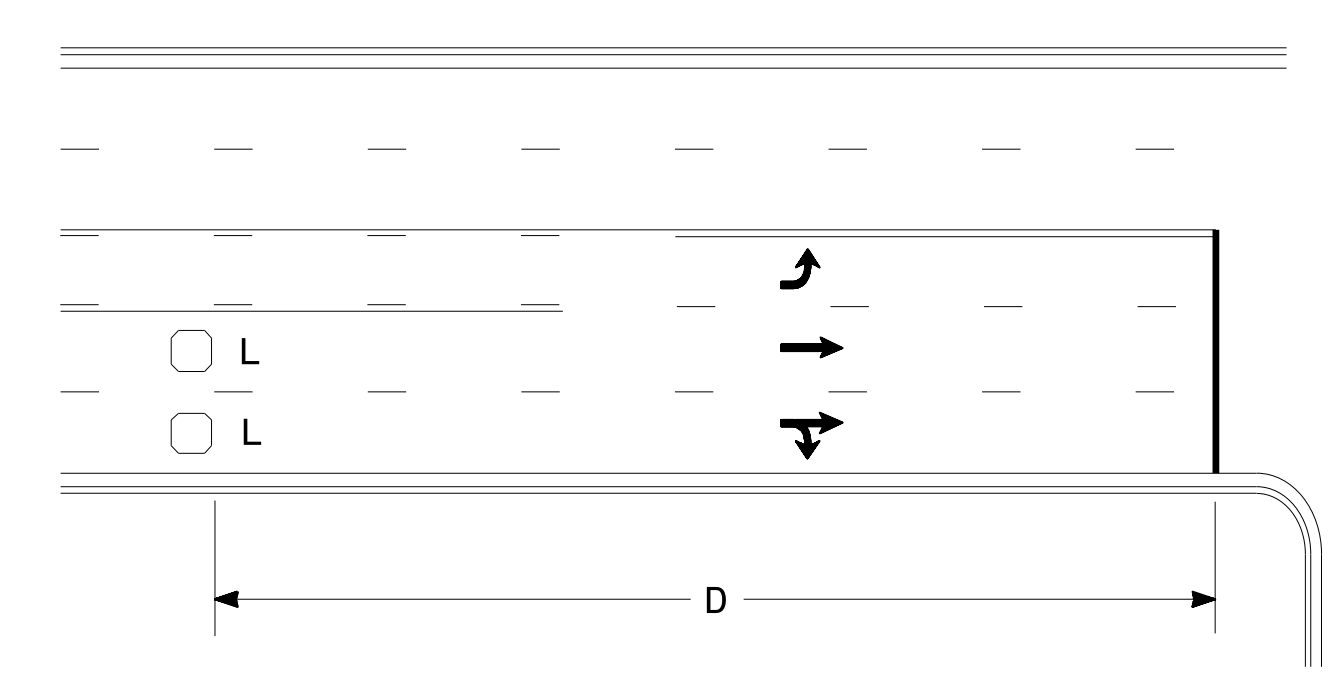
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



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

5/15/2017 S:\TMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn User:kadai

High Speed Detection (≥40 mph)

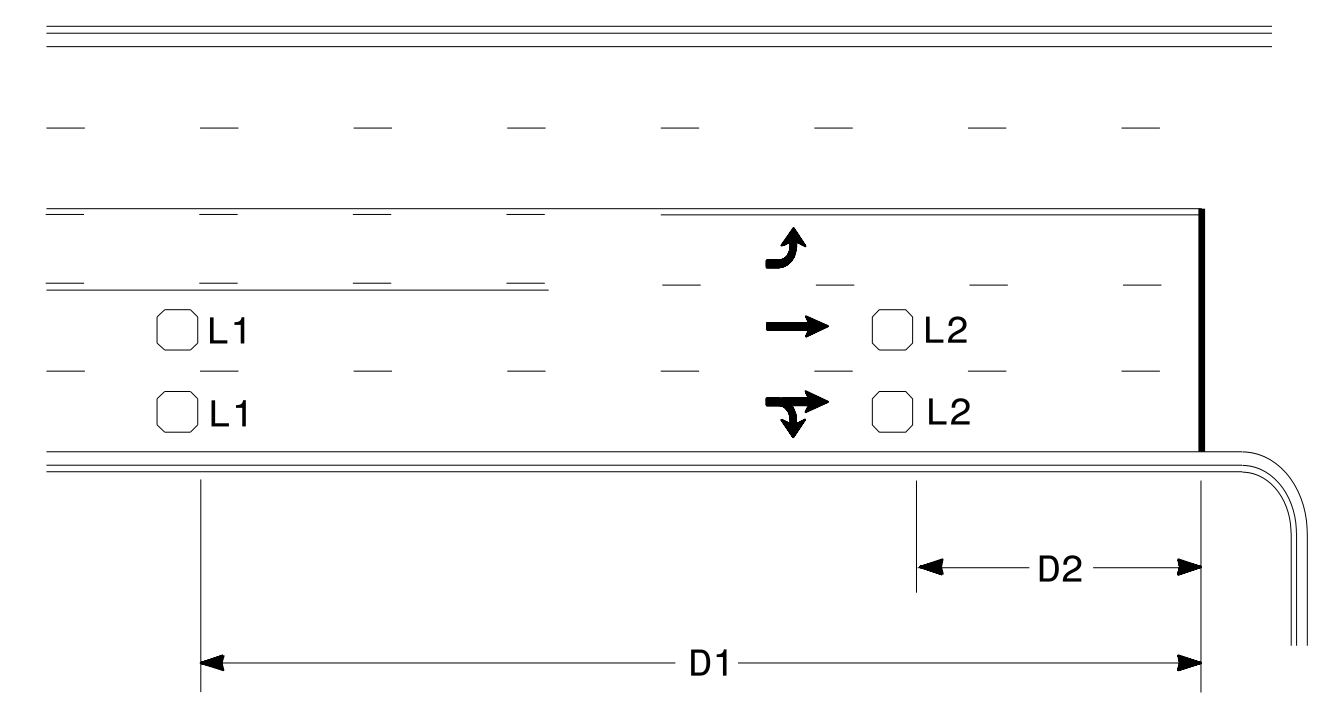


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

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

Volume Density Operation

OR

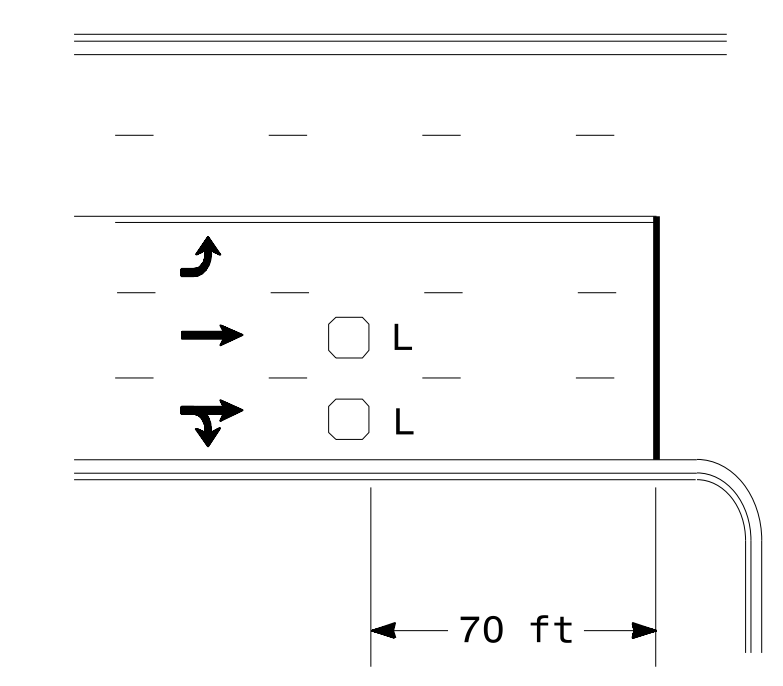


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

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

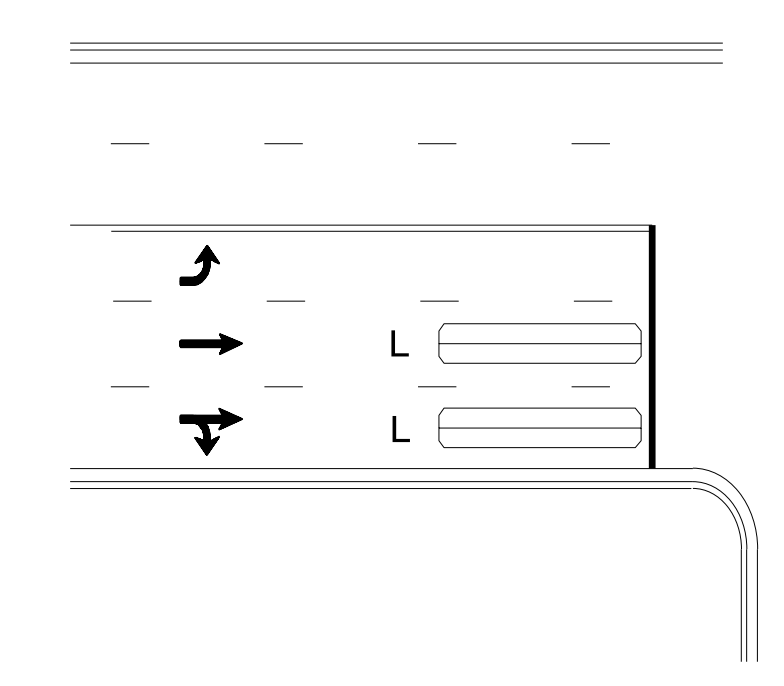
"Stretch" Operation

Low Speed Detection (≤35 mph)



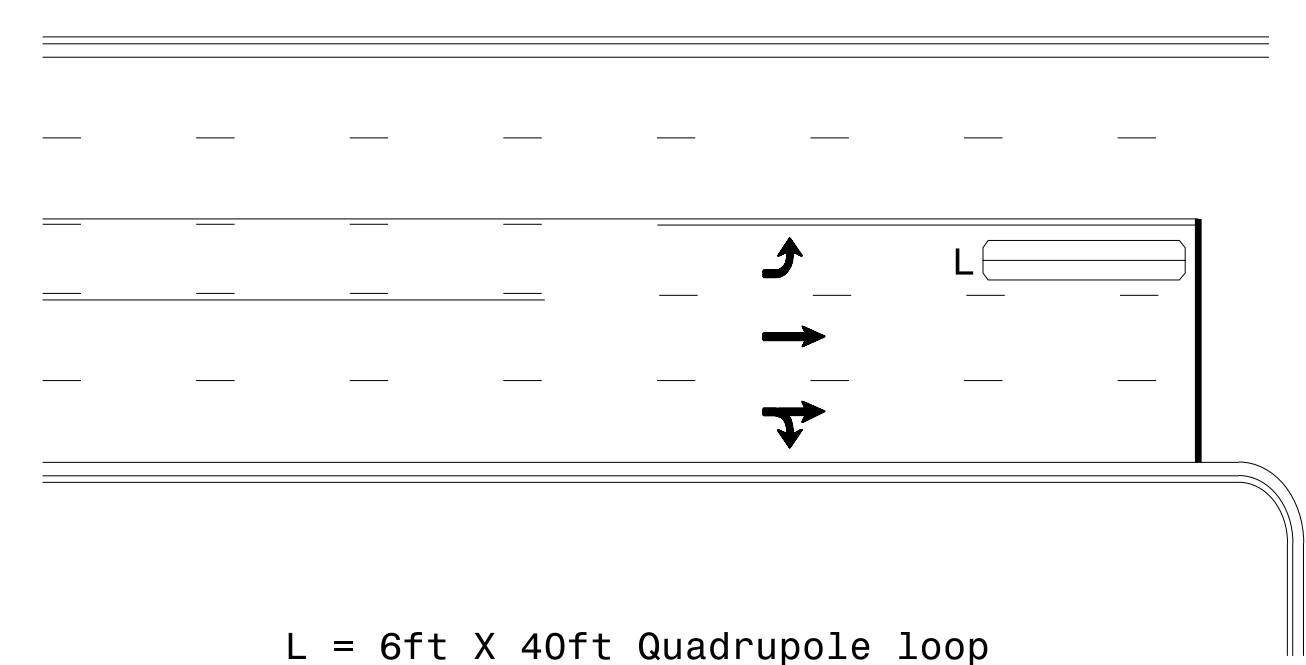
L = 6ft X 6ft
Wired in series

OR



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

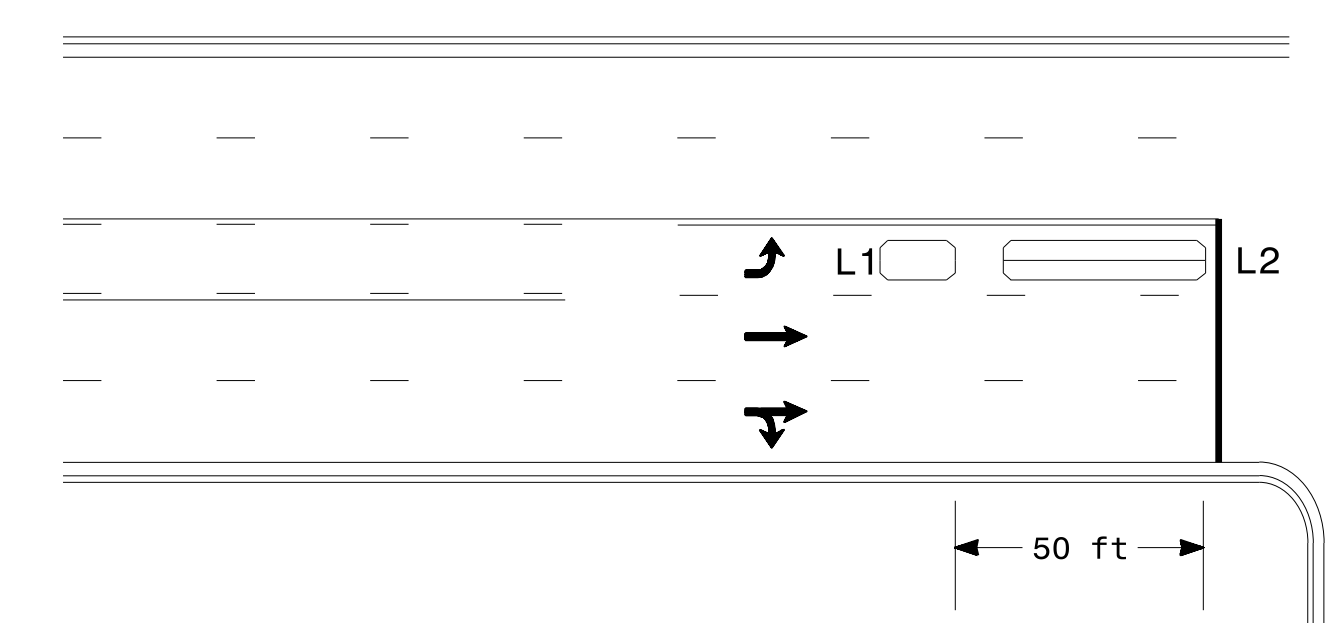
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

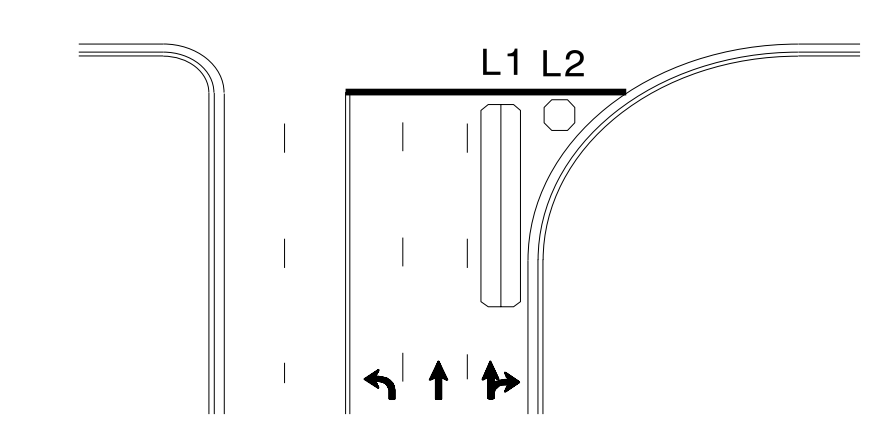
OR



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

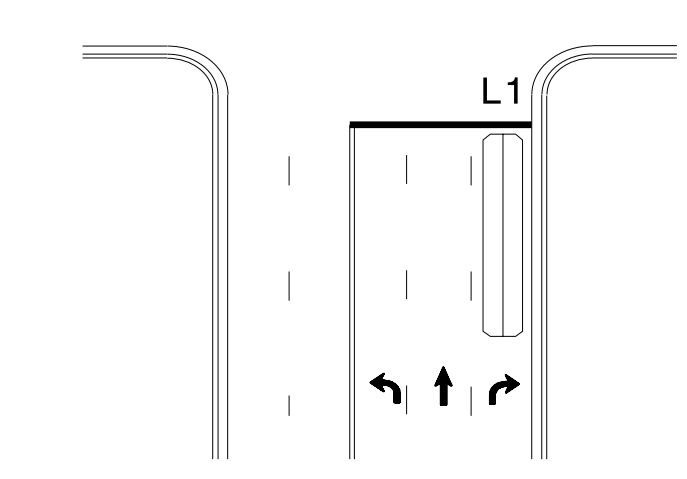
Queue Loop Detection

Right Turn Lane Detection

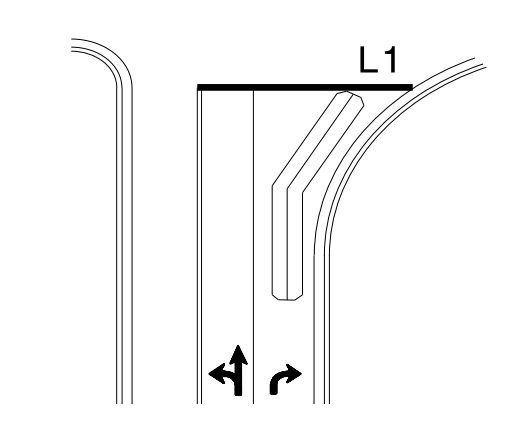


Shared Lane/
Wide Radius Turn

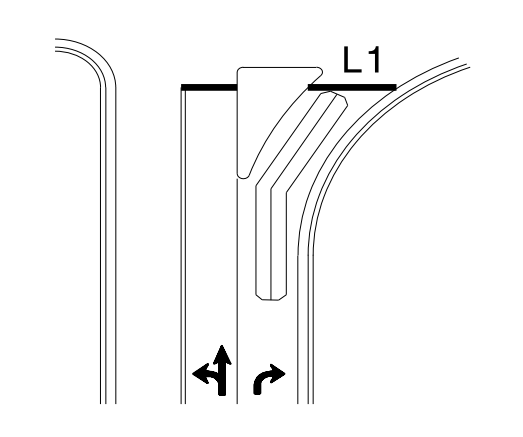
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

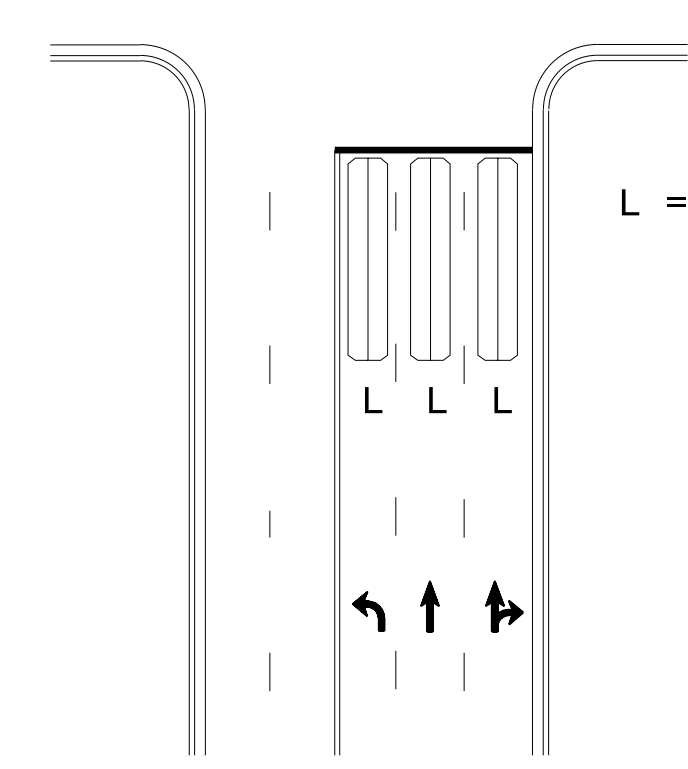


Wide Radius Turn



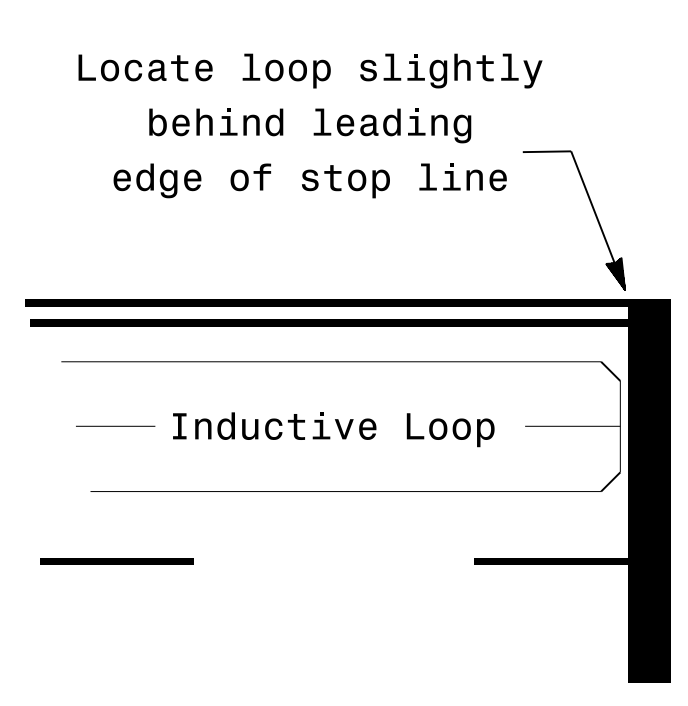
Channelized Turn

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

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
PAMELA L. ALEXANDER
23489

Typical Signal Loop Locations

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

SCALE
N/A

DocuSigned by:
P. Alexander
1/30/2015 10:44:44 AM
DATE

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 paalexander