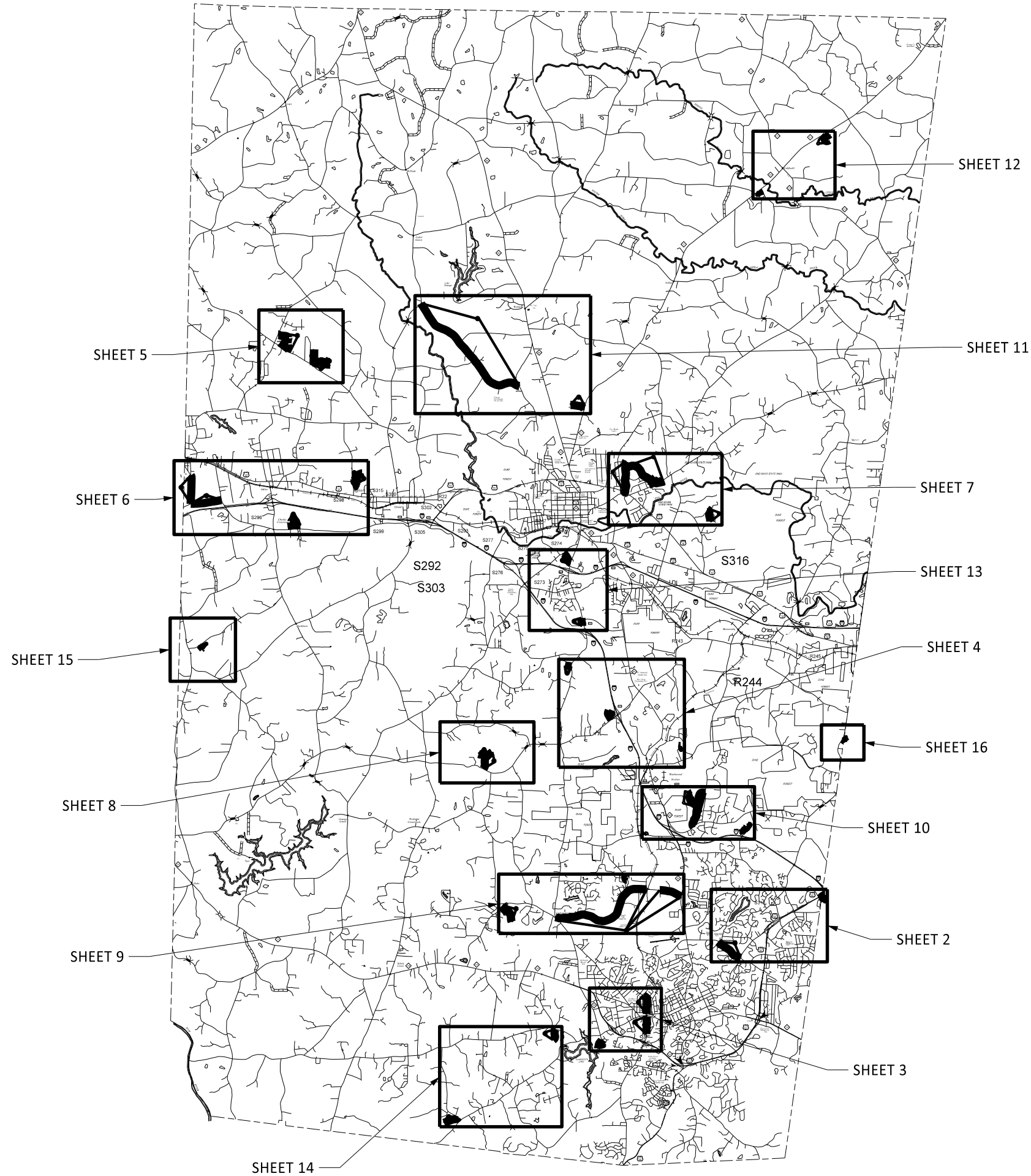
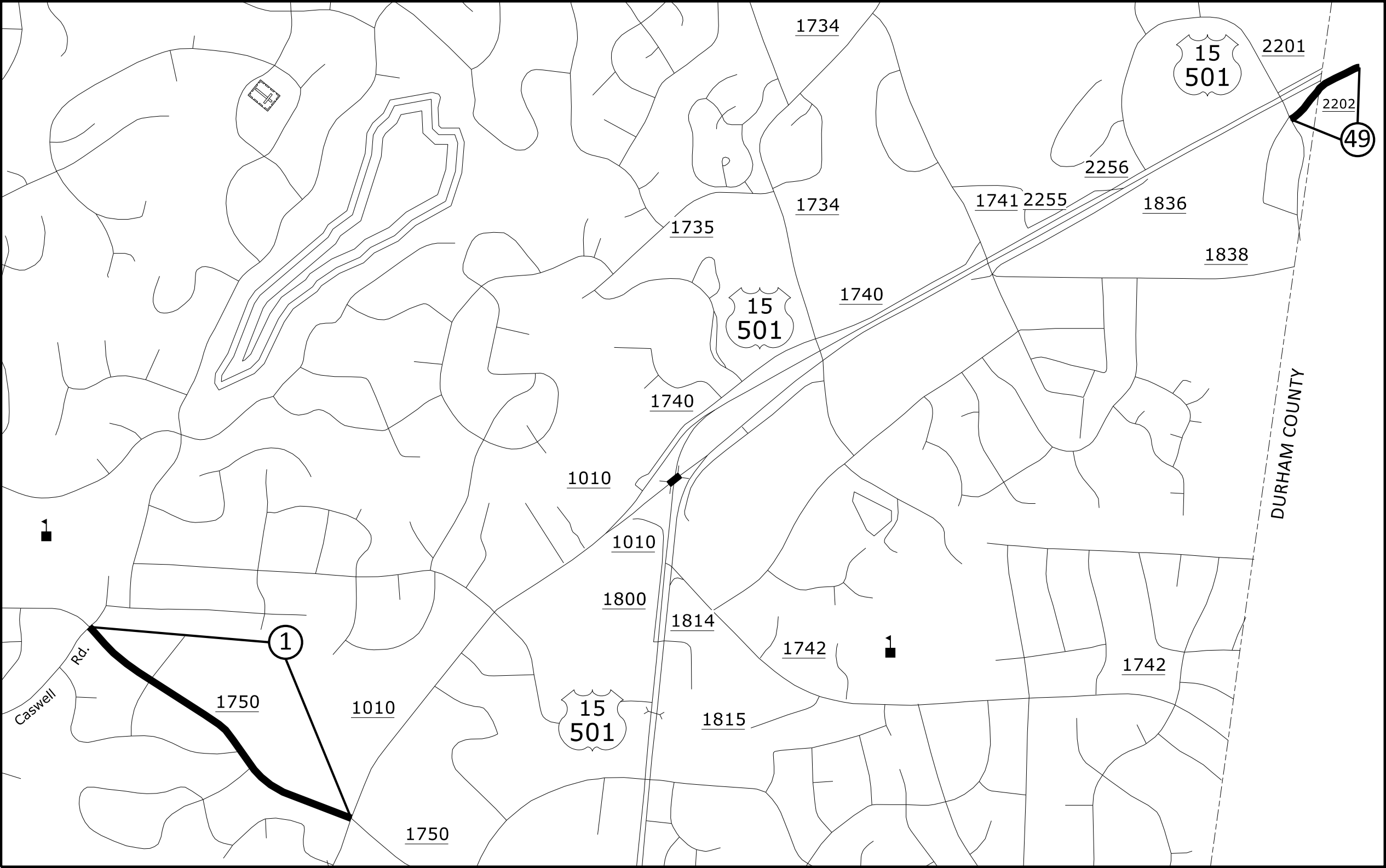
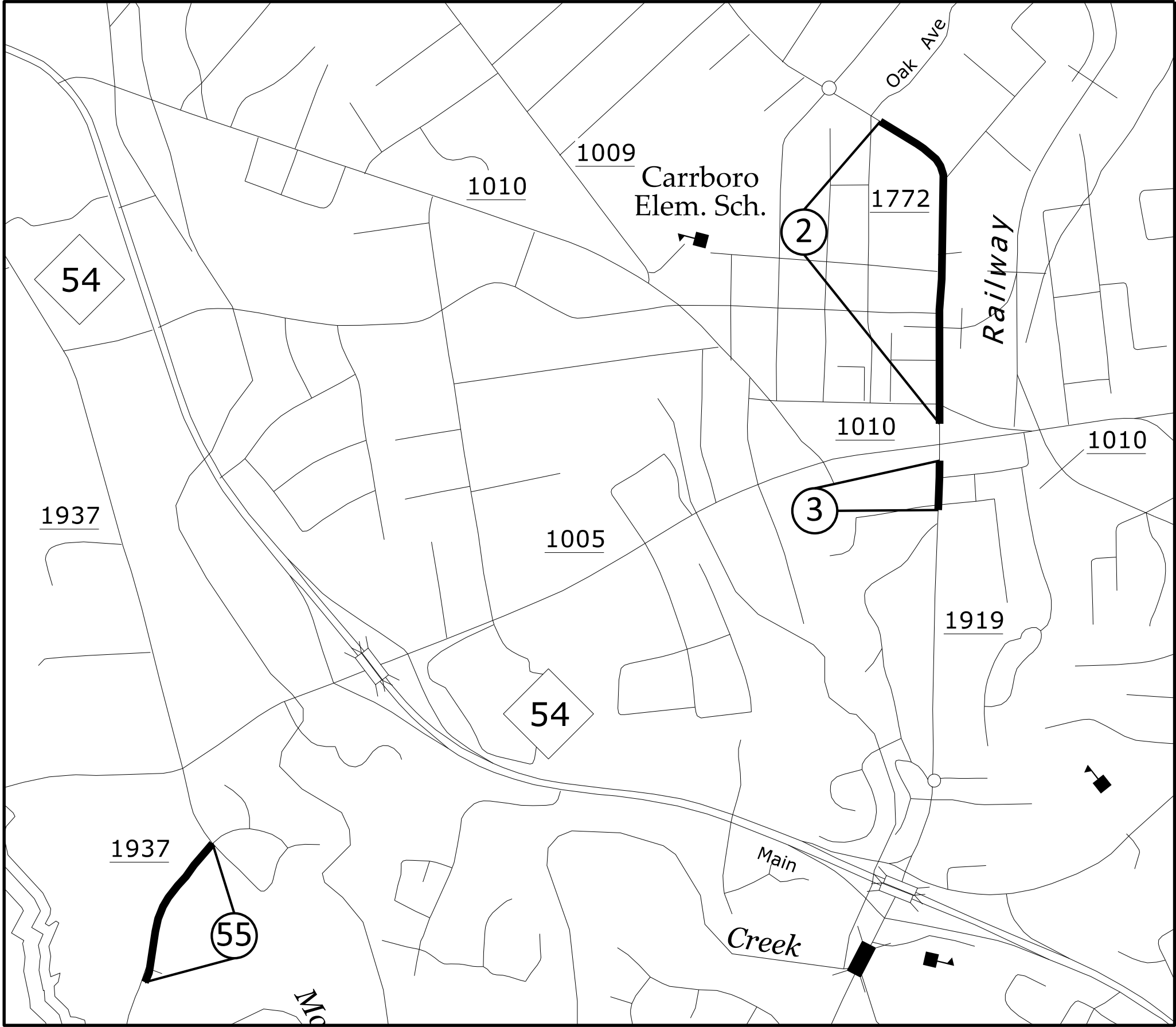






Map 1 SR 1750 - N Estes Dr
Map 49 SR 2202 - Red Roof Inn Dr
*Pave section in Durham County
as well*



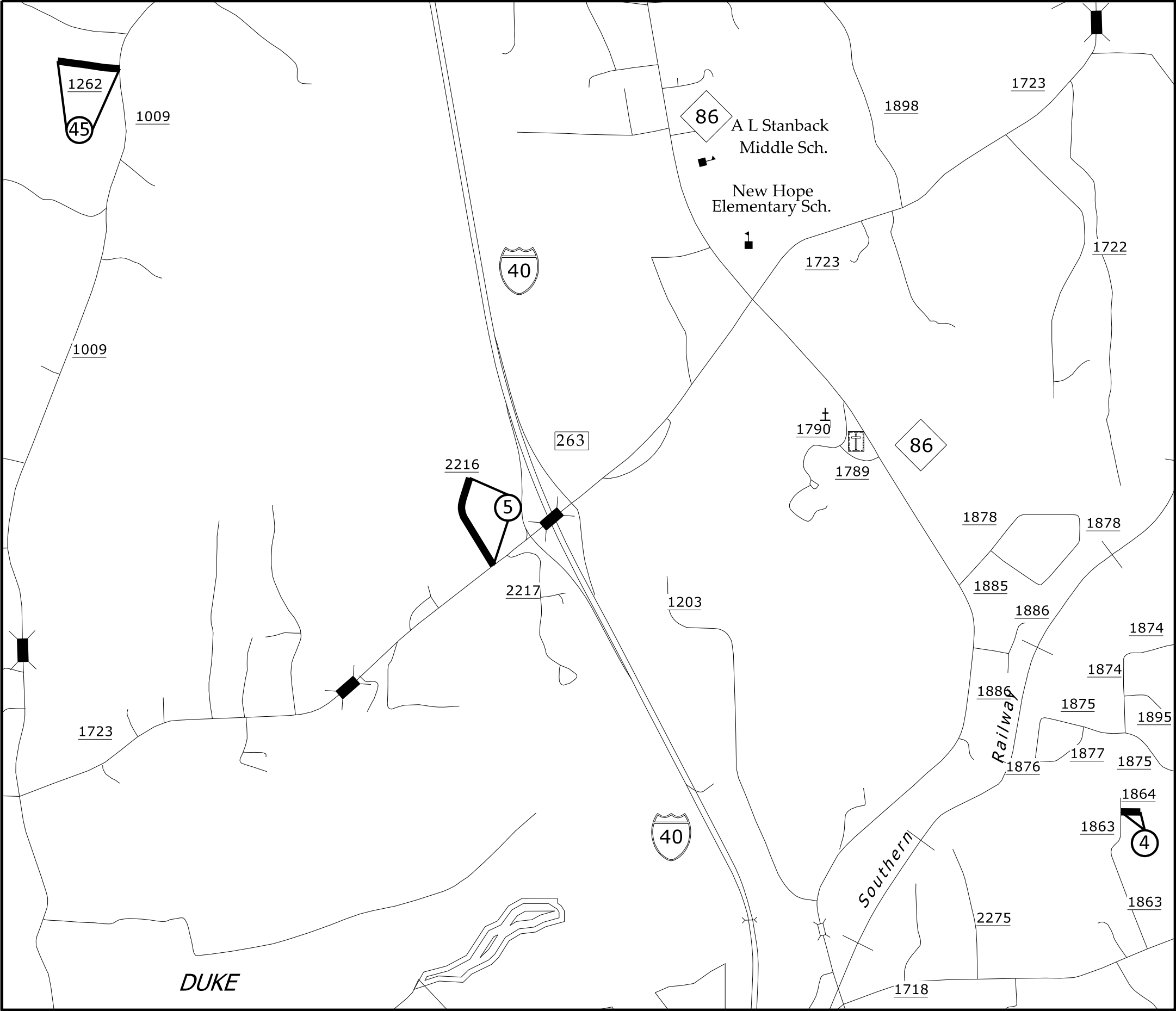
Map 2 SR 1772 - N Greensboro St
From Joint 130' North of SR 1010 - W/E Main St To Joint 60' South of Oak Ave

Contact Town of Carrboro to remove surface mounted pedestrian signs before resurfacing

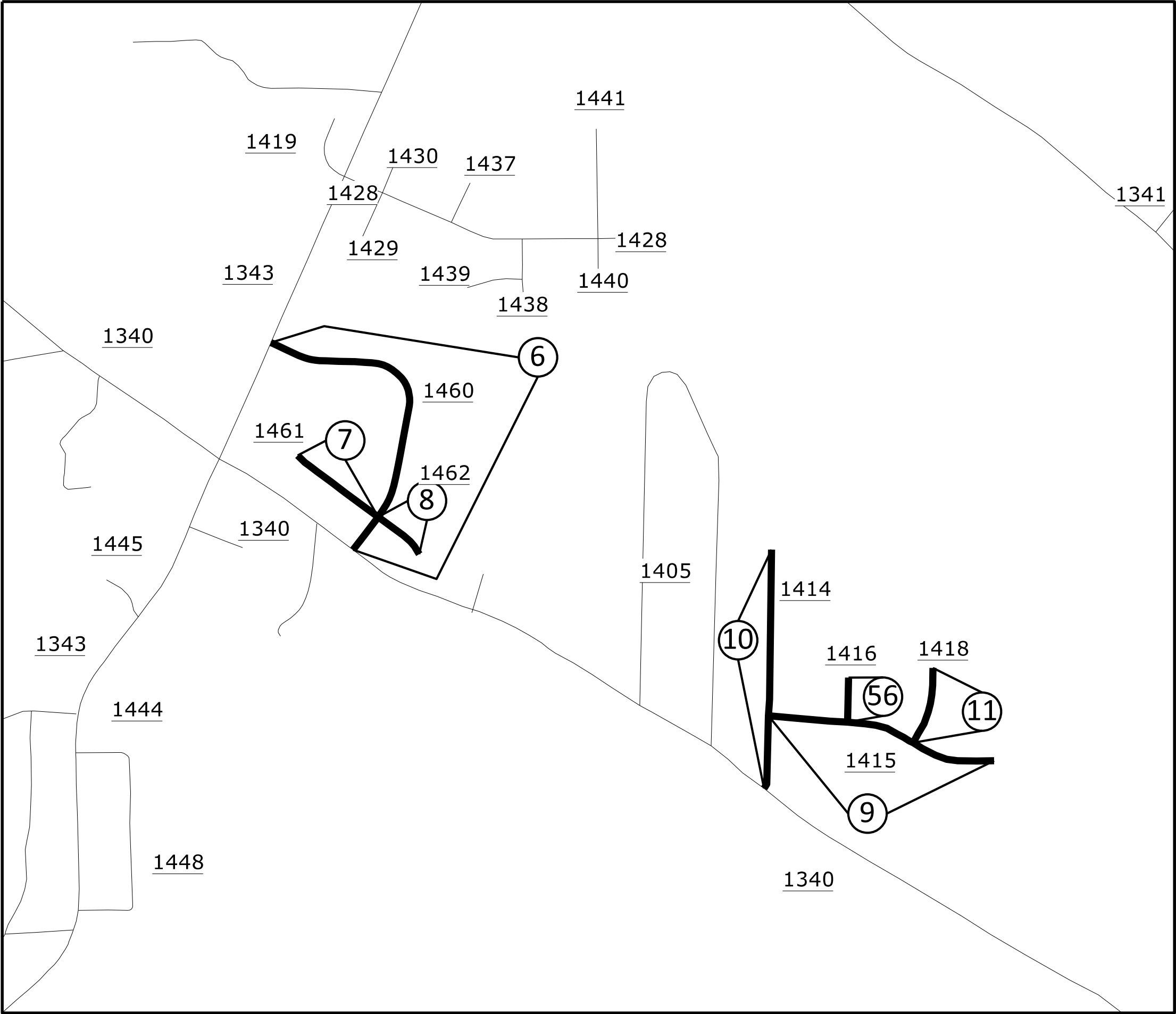
Map 3 SR 1919 - S Greensboro St
From Braxton Foushee St TO Joint 100' South of SR 1010 - W/E Main St

Mill around square drainage structures, do not adjust

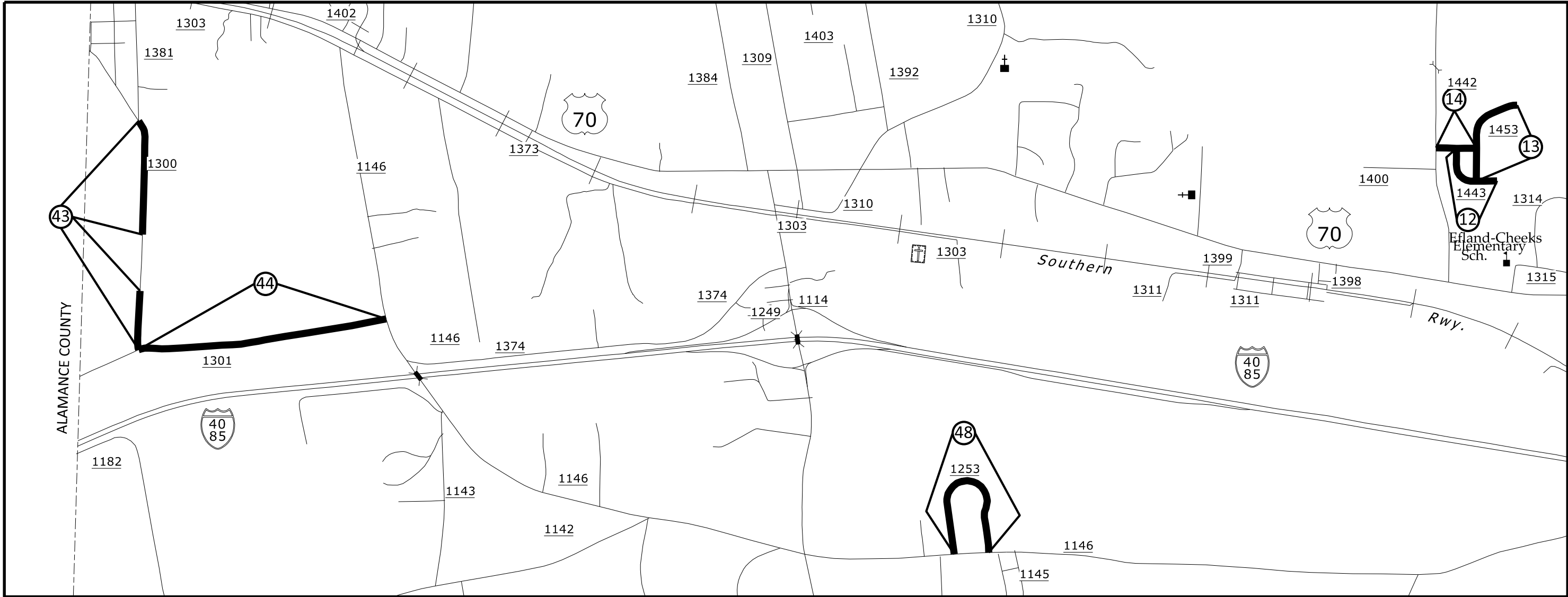
Map 55 SR 1937 - University Lake Rd



Map 4 SR 1864 - Caprea Ct
Map 5 SR 2216 - Vallie Hi Ln
Map 45 SR 1262 - Old Heritage Ct



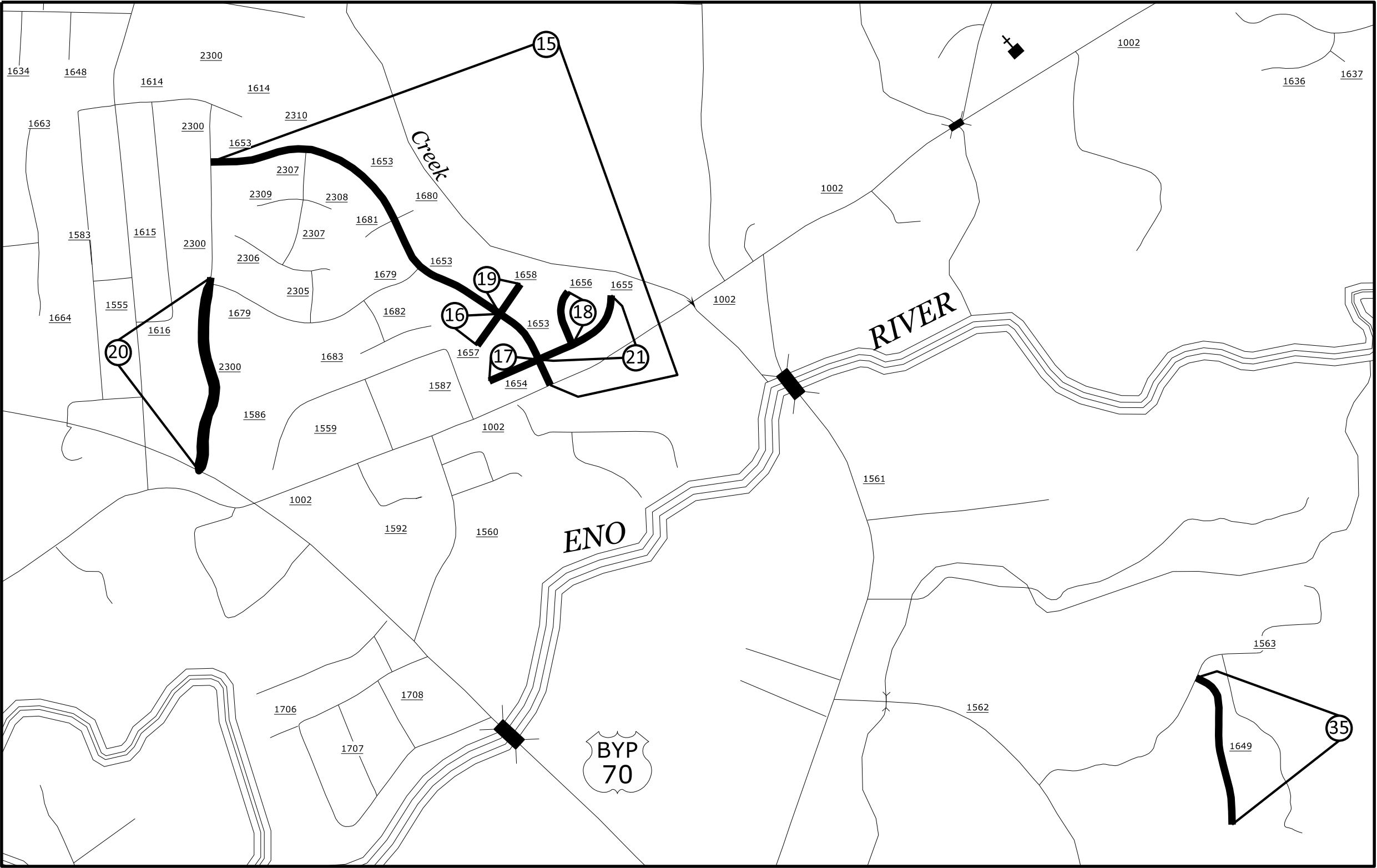
- | | |
|--------|---------------------------|
| Map 6 | SR 1460 - Virginia Lee Ln |
| Map 7 | SR 1461 - Stacy Ct |
| Map 8 | SR 1462 - Sunglow Ct |
| Map 9 | SR 1415 - Wagon Farm Rd |
| Map 10 | SR 1414 - Poplar Dr |
| Map 11 | SR 1418 - Trail Dr |
| Map 56 | SR 1416 - Wagon Ct |

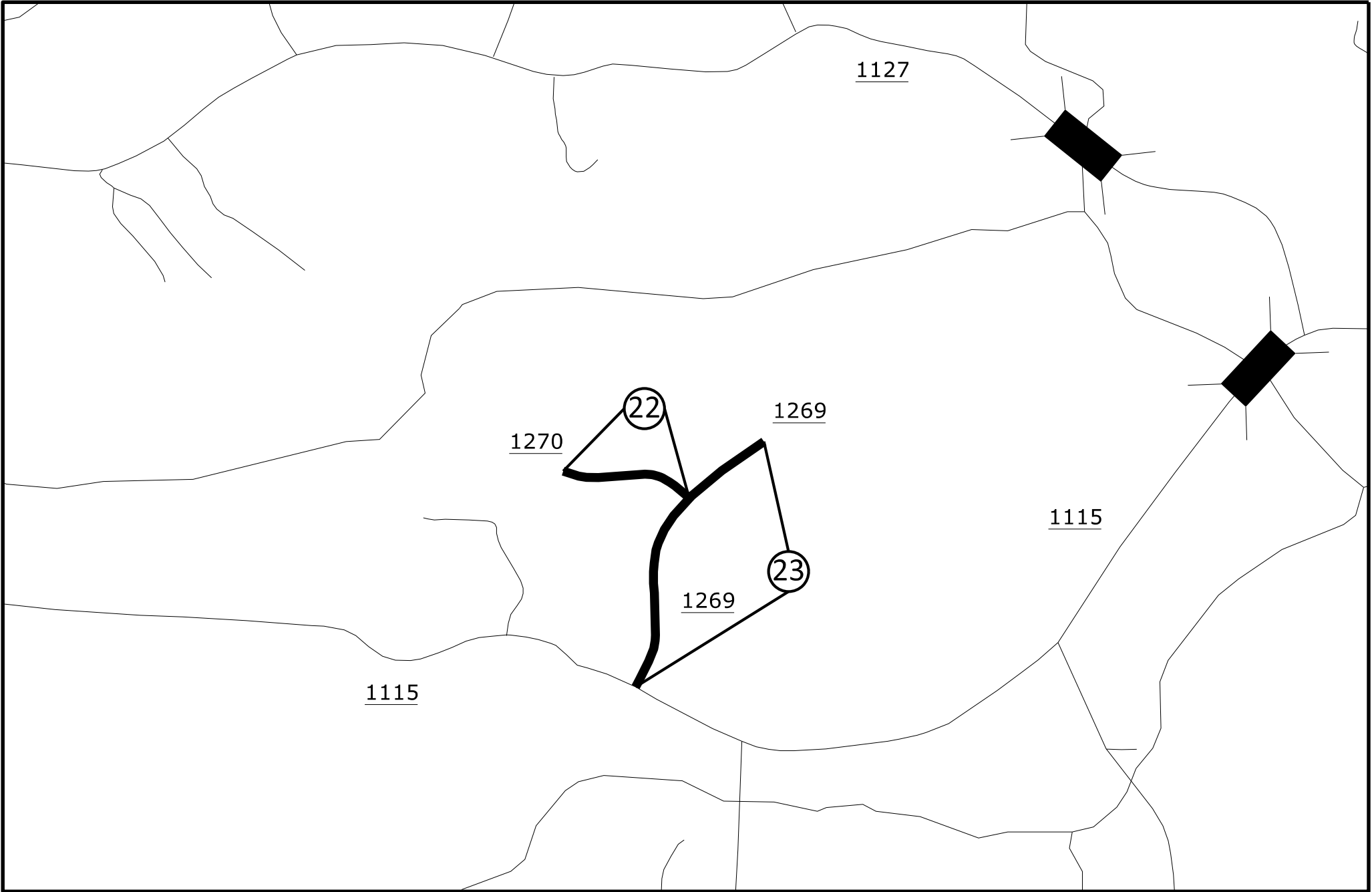


Map 12 SR 1443 - Alice Miller Ct
Map 13 SR 1453 - Boundbrook Dr
Map 14 SR 1442 - Buckwalter Ln
Map 43 SR 1300 - Oakwood St
Skip new asphalt section

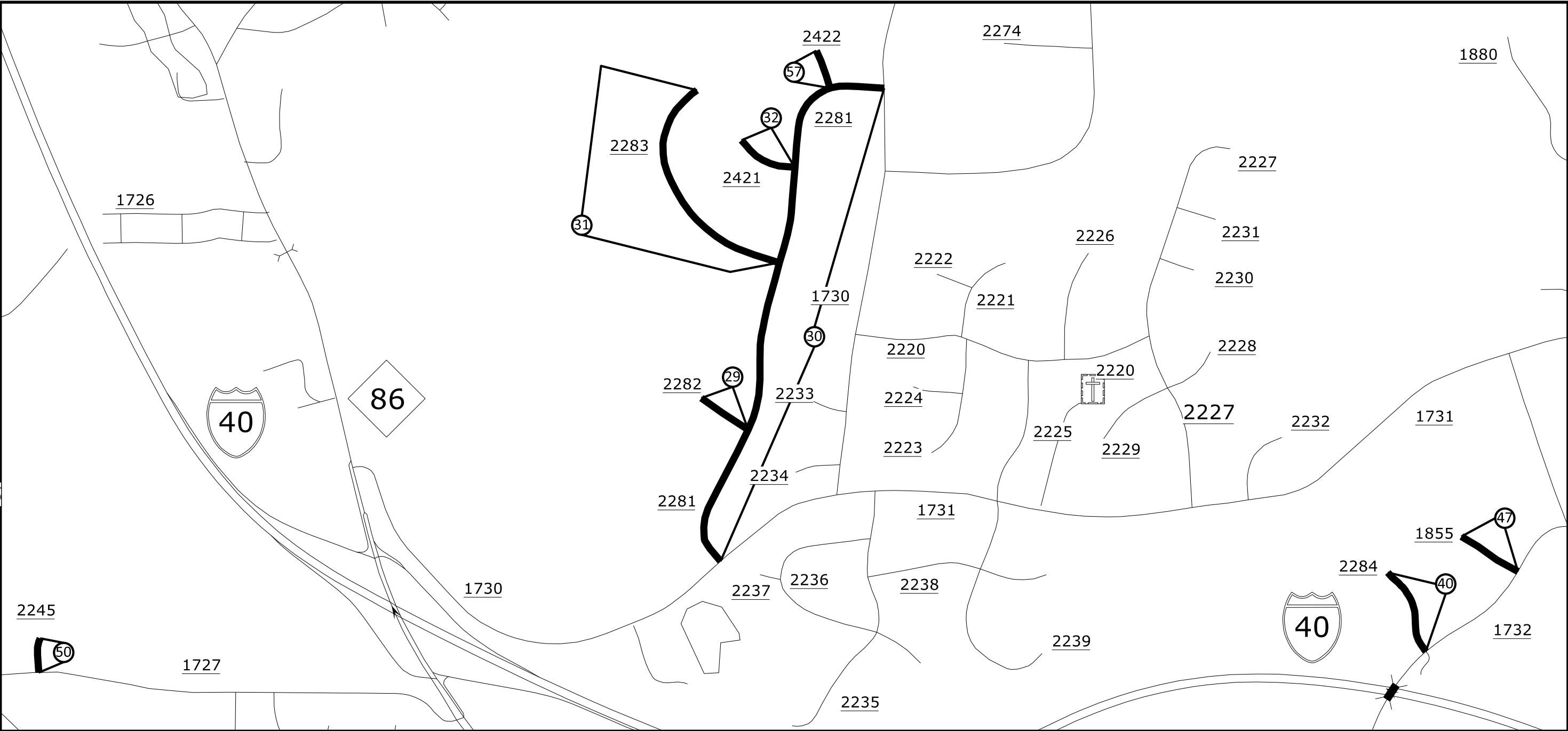
Map 44 SR 1301 - Oakwood St Ext
Map 48 SR 1253 - Preston Lp





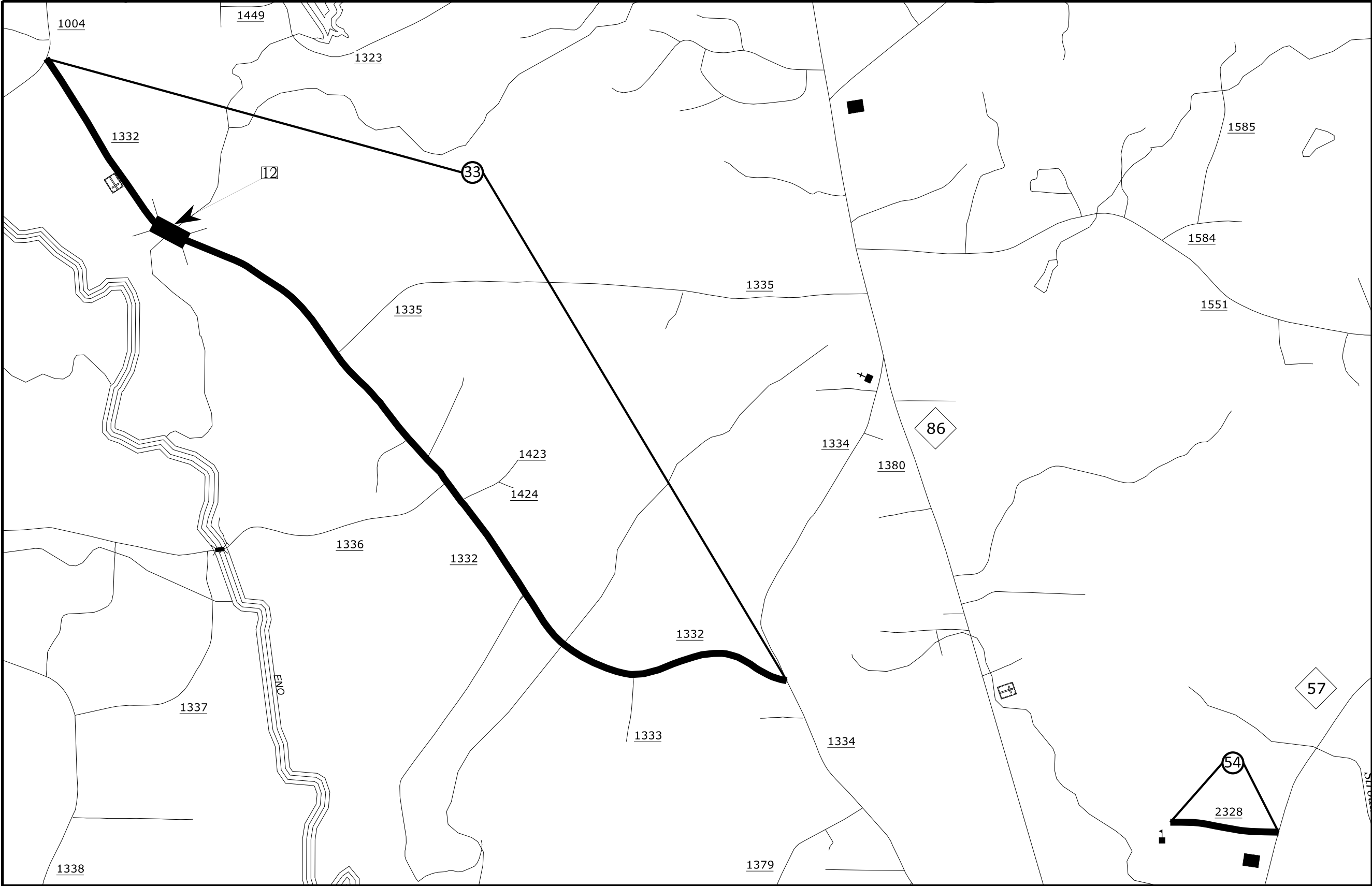


Map 22 SR 1270 - Craftsman St
Map 23 SR 1269 - Tuscany Dr



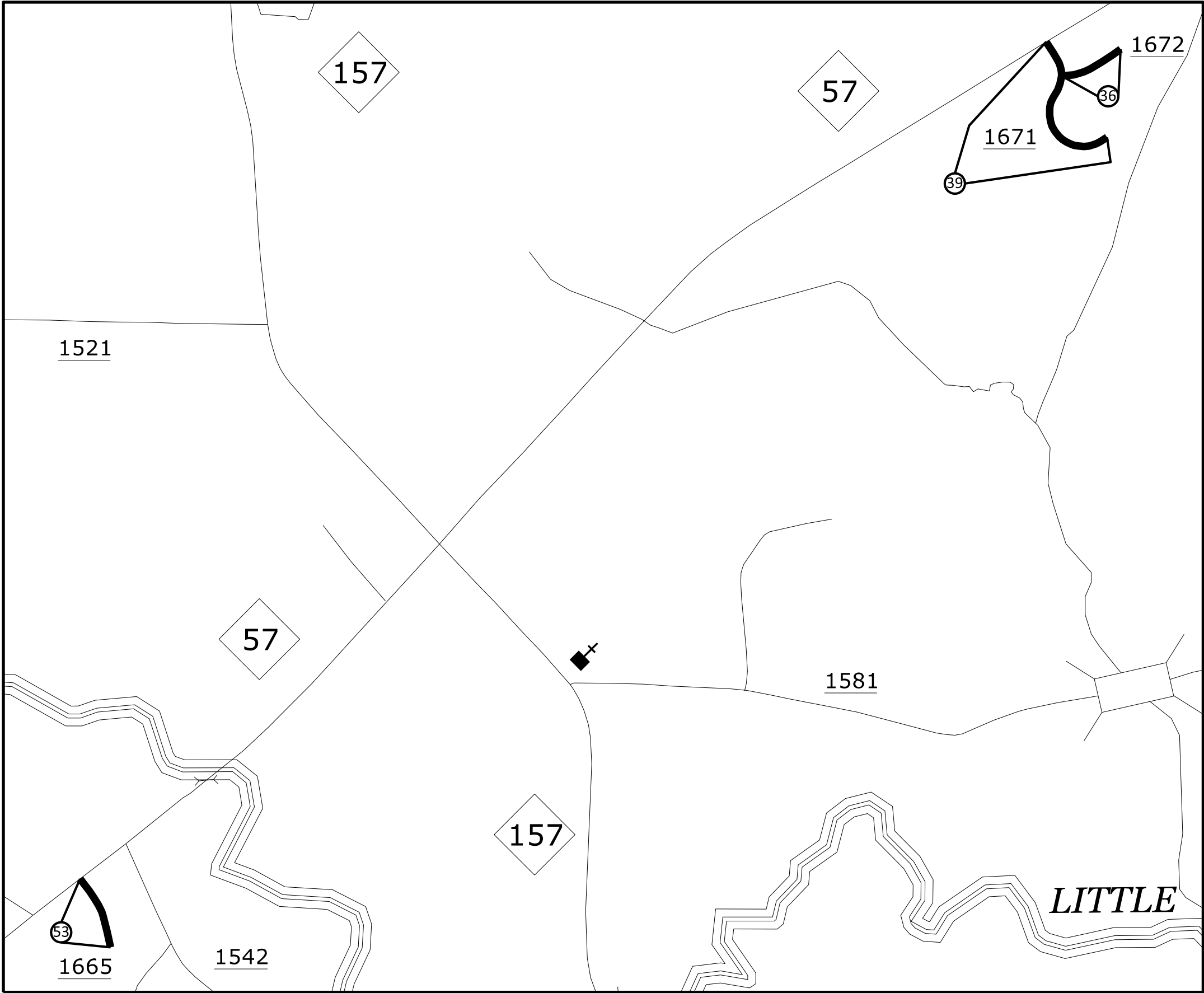
- Map 29 SR 2282 - Creek Run Ct
- Map 30 SR 2281 - Creek Wood Dr
- Map 31 SR 2283 - Creek Ridge Ln
- Map 32 SR 2421 - Bridgeton Pl
- Map 40 SR 2284 - Northridge Ln
- Map 47 SR 1855 - Pine Tree Ln
- Map 50 SR 2245 - Rex Rd
- Map 57 SR 2422 - Forest Creek Rd





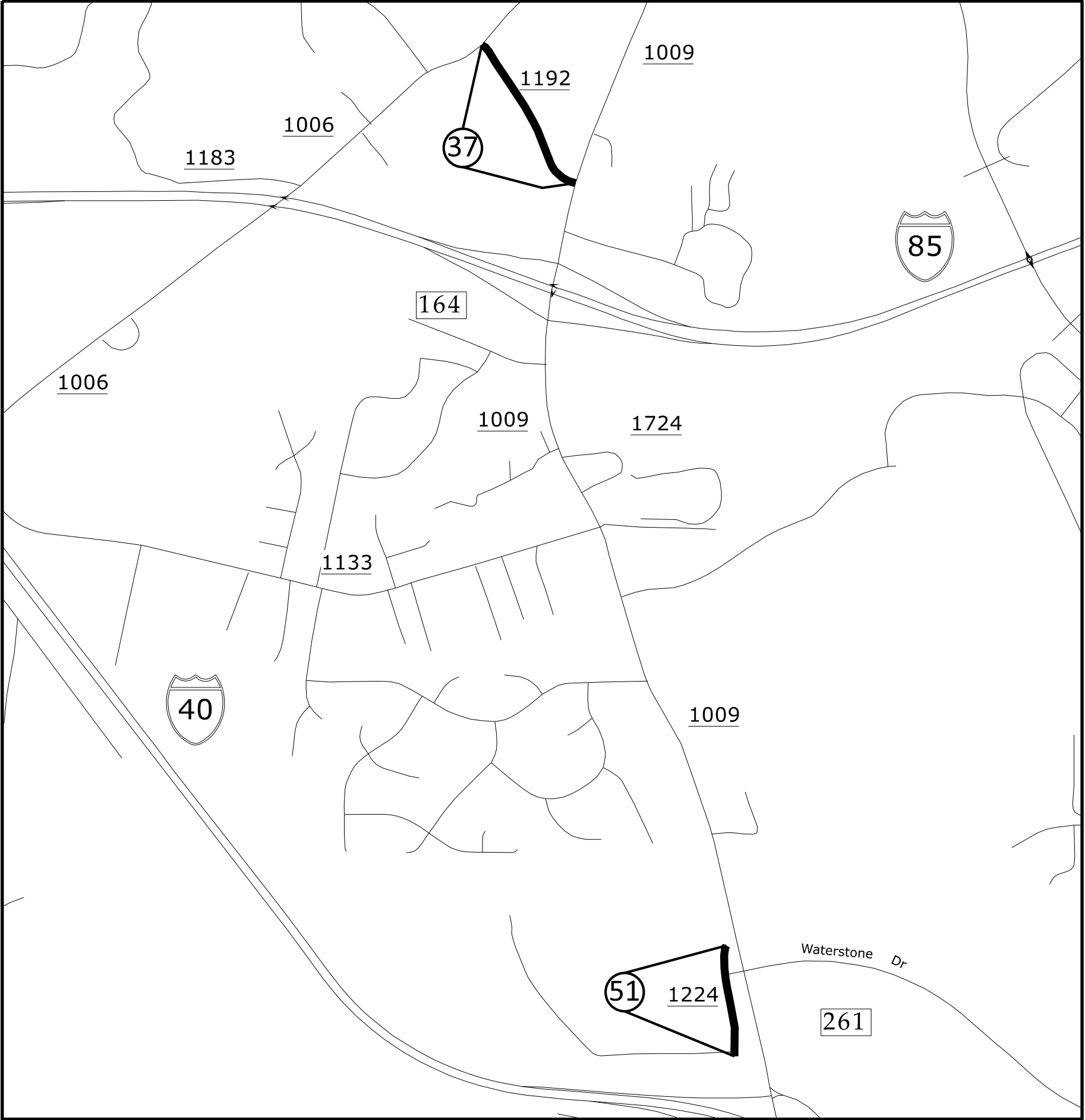
Map 33 SR 1332 - Highland Farm Rd
*Resurface Bridge #12

Map 54 SR 2328 - Strouds Creek Rd

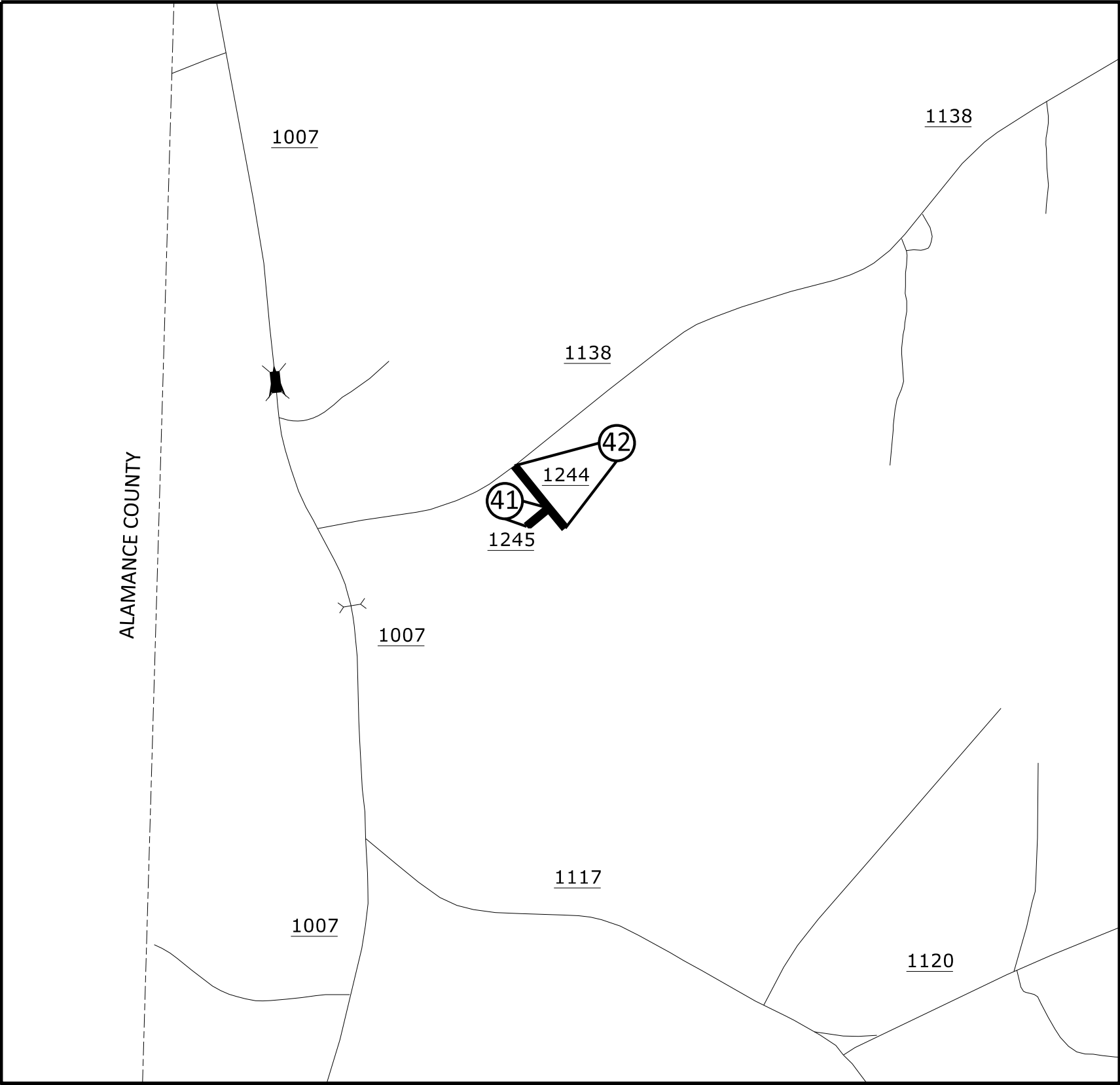


Map 36 SR 1672 - Maggie Ln
Map 39 SR 1671 - Nichols Dr
Map 53 SR 1665 - Trinity Ln

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.07.07.20681	13

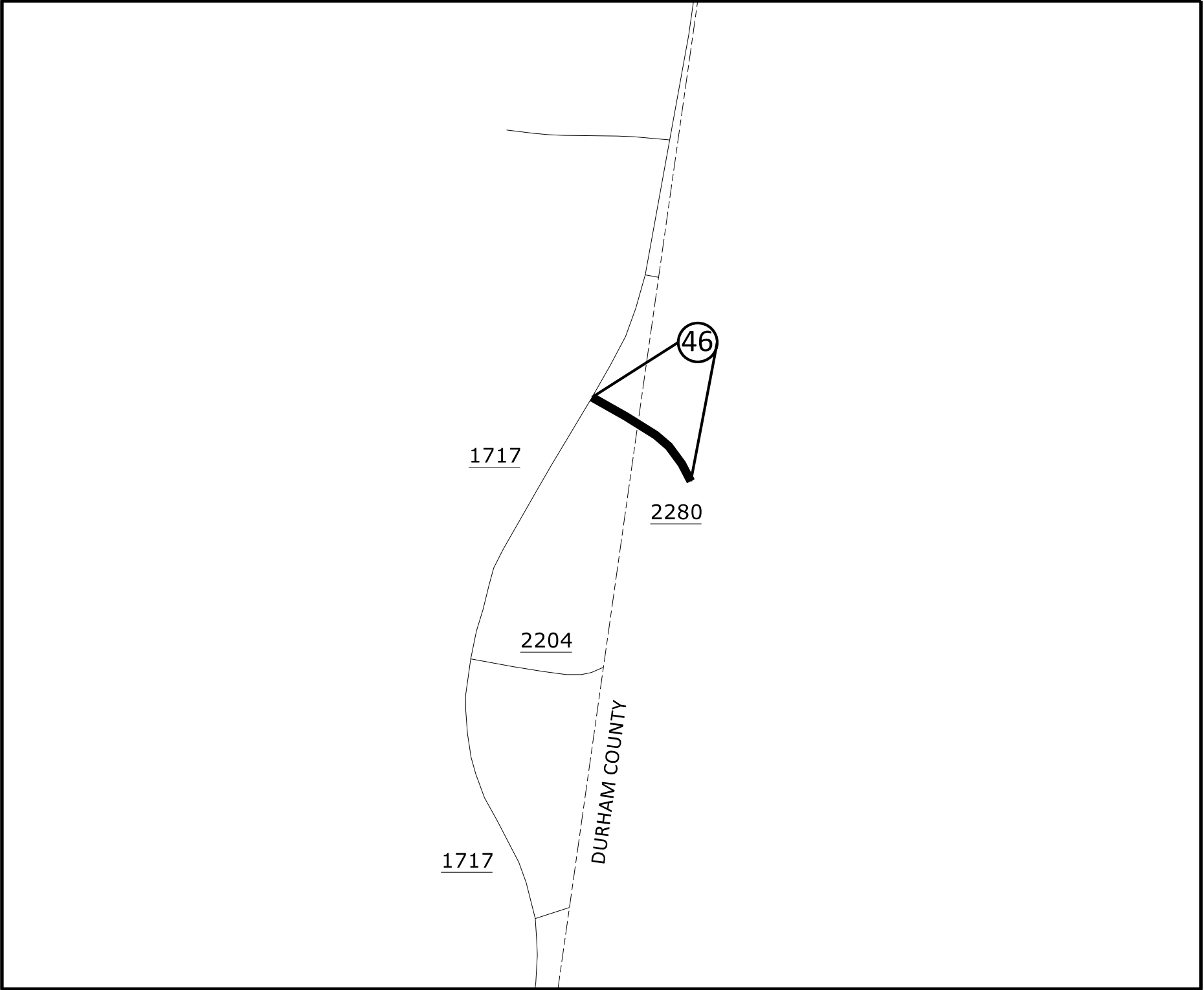


Map 37 SR 1192 - Mayo St
Map 51 SR 1224 - Rippy Ln

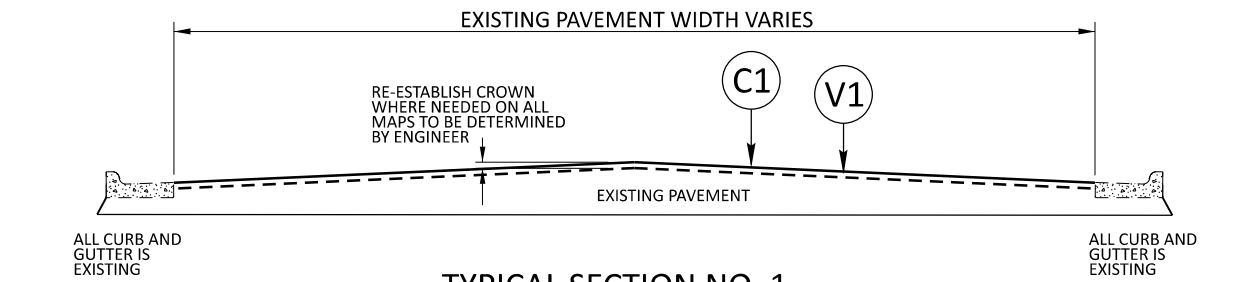


Map 41 SR 1245 - Oak Pointe Ct
Map 42 SR 1244 - Oak Pointe Ln

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.07.07.20681	16

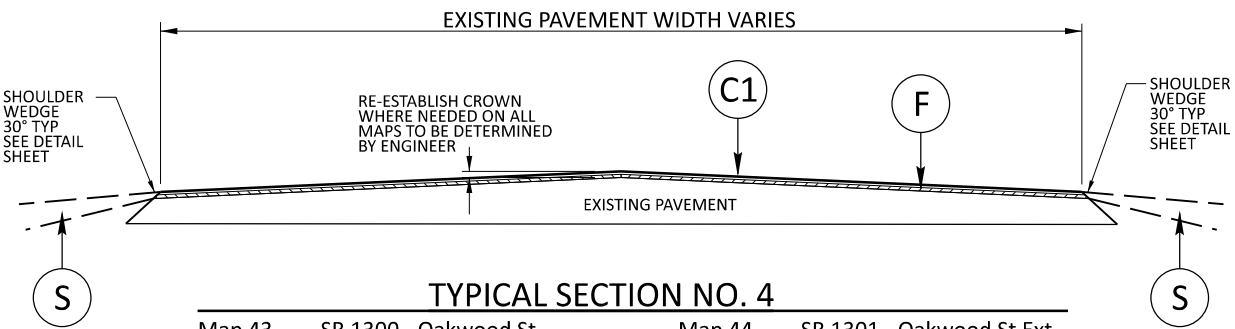


Map 46 SR 2280 - Pascal Way
*Pave section in Durham County
as well*



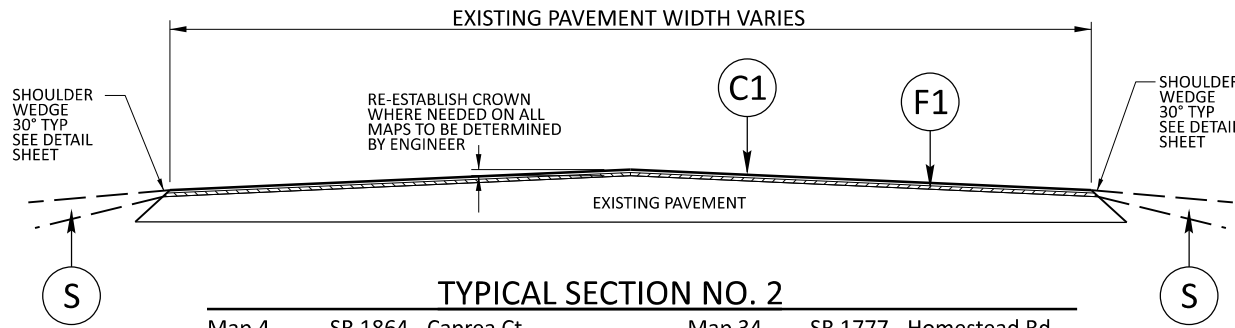
TYPICAL SECTION NO. 1

Map 1	SR 1750 - N Estes Dr	Map 20	SR 2300 - N. Scotswood Blvd NB
Map 2	SR 1772 - N Greensboro St	Map 20	SR 2300 - N. Scotswood Blvd SB
Map 3	SR 1919 - S Greensboro St	Map 34	SR 1777 - Homestead Rd
From NC 86 to E Winmore Ave			
Skip new asphalt section between RR Tracks and Weaver Dairy Rd Ext			
Skip EB new asphalt section between Seawell School Rd and RR Tracks, pave WB and Center Lanes			



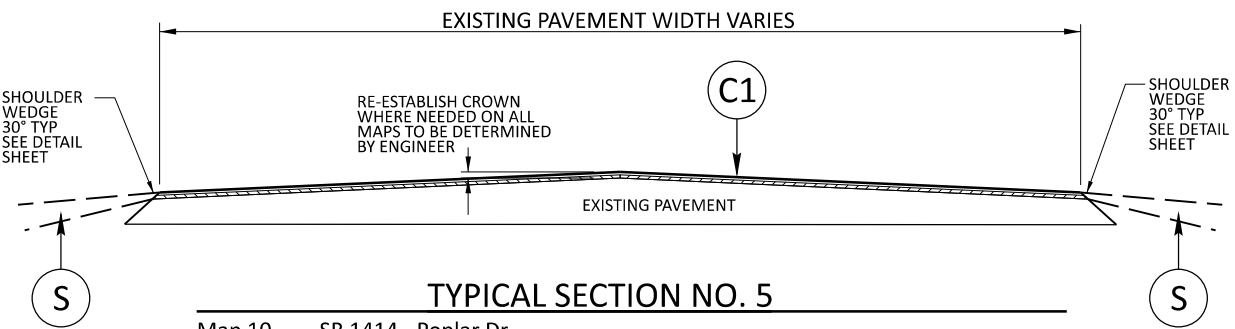
TYPICAL SECTION NO. 4

Map 43	SR 1300 - Oakwood St	Map 44	SR 1301 - Oakwood St Ext
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TYPICAL SECTION NO. 2

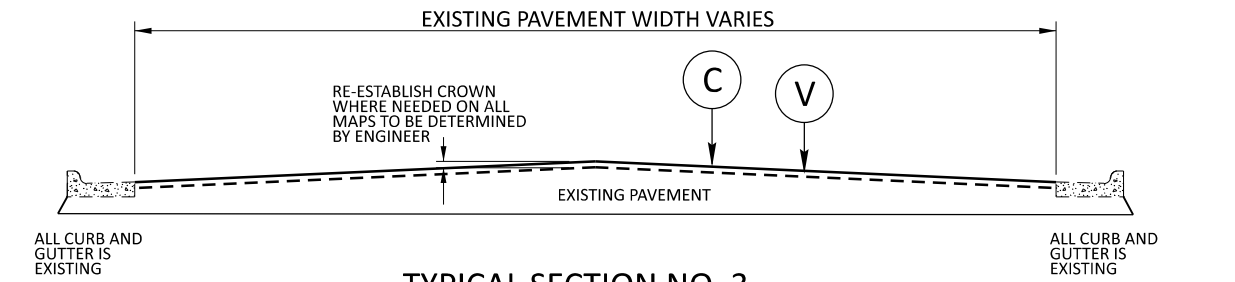
Map 4	SR 1864 - Caprea Ct	Map 34	SR 1777 - Homestead Rd
Map 5	SR 2216 - Vallie Hi Ln	*From E Winmore Ave to SR 1009 - Hillsborough Rd*	
Map 6	SR 1460 - Virginia Lee Ln	*Resurface Bridge #94, DO NOT BLOCK WEEP HOLES*	
Map 7	SR 1461 - Stacy Ct	Map 35	SR 1649 - Crown Ct
Map 8	SR 1462 - Sunglow Ct	Map 36	SR 1672 - Maggie Ln
Map 9	SR 1415 - Wagon Farm Rd	Map 37	SR 1192 - Mayo St
Map 11	SR 1418 - Trail Dr	Map 38	SR 2056 - Moonlight Dr
Map 12	SR 1443 - Alice Miller Ct	Map 39	SR 1671 - Nichols Dr
Map 13	SR 1453 - Boundbrook Dr	Map 40	SR 2284 - Northridge Ln
Map 14	SR 1442 - Buckwalter Ln	Map 41	SR 1245 - Oak Pointe Ct
Map 22	SR 1270 - Craftsman St	Map 42	SR 1244 - Oak Pointe Ln
Map 23	SR 1269 - Tuscany Dr	Map 45	SR 1262 - Old Heritage Ct
Map 26	SR 1261 - Galax Ct	Map 46	SR 2280 - Pascal Way
Map 27	SR 1260 - Oconee Ct	Map 47	SR 1855 - Pine Tree Ln
Map 28	SR 1259 - Oxbow Crossing	Map 48	SR 1253 - Preston Lp
Map 29	SR 2282 - Creek Run Ct	Map 49	SR 2202 - Red Roof Inn Dr
Map 30	SR 2281 - Creek Wood Dr	Map 50	SR 2245 - Rex Rd
Map 31	SR 2283 - Creek Ridge Ln	Map 51	SR 1224 - Rippy Ln
Map 32	SR 2421 - Bridgeton Pl	Map 52	SR 2058 - Salem Ln
Map 33	SR 1332 - Highland Farm Rd	Map 53	SR 1665 - Trinity Ln
Resurface Bridge #12		Map 54	SR 2328 - Strouds Creek Rd
		Map 55	SR 1937 - University Lake Rd
		Map 56	SR 1416 - Wagon Ct
		Map 57	SR 2422 - Forest Creek Rd



TYPICAL SECTION NO. 5

Map 10	SR 1414 - Poplar Dr
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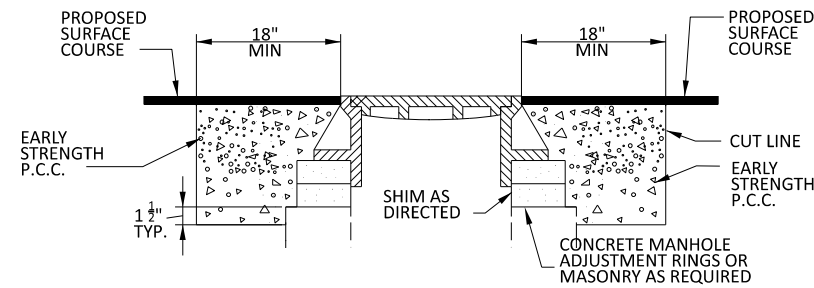
Note: Multiple overlay maps have intersections with curb & gutter. Mill & Fill all curb & gutter sections.



TYPICAL SECTION NO. 3

Map 15	SR 1653 - Churton Grove Blvd	Map 19	SR 1658 - McRae Pl
Map 16	SR 1657 - Dunn Pl	Map 21	SR 1655 - Patrick Henry Ln
Map 17	SR 1654 - Foreman St	Map 24	SR 2287 - Ezekiel Peppers Trl
Map 18	SR 1656 - James Madison Pl	Map 25	SR 2288 - Jubilee Dr

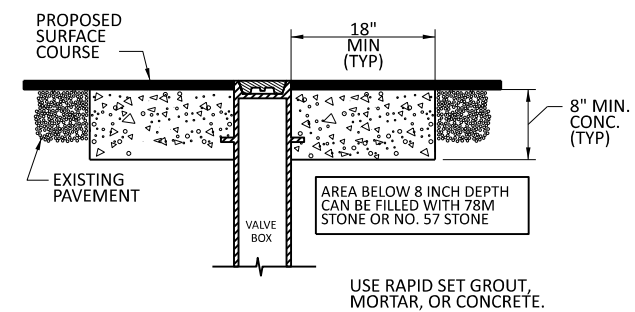
PAVEMENT SCHEDULE	
C	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 110 LBS PER SQ YD.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
F	AST MAT COAT, #67
F1	AST MAT COAT, #78M
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT
V	MILL ASPHALT PAVEMENT, 1" DEPTH
V1	MILL ASPHALT PAVEMENT, 1½" DEPTH



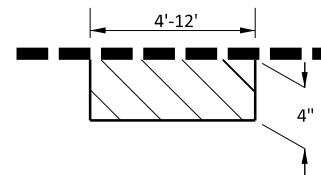
NOTES:

1. MORTAR SHALL BE MIXED TO NCDOT SPECIFICATIONS.
2. ALL FAULTY EXISTING BRICKWORK TO BE REMOVED AND REPLACED WITH NEW BRICK MASONRY.
3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT ON ALL SIDES.
4. RAPID SET GROUT, MORTAR, OR CONCRETE SHALL BE USED CLASS B CONCRETE MAY BE USED WHEN ADJUSTMENTS ARE NOT IN THE TRAVEL LANE.

STANDARD CONCRETE ENCASEMENT FOR MANHOLE CASTINGS IN PAVEMENT

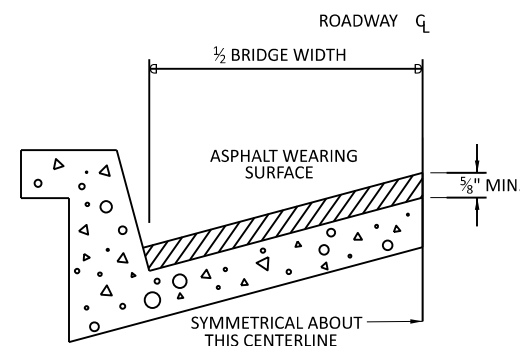


STANDARD CONCRETE ENCASEMENT FOR VALVE CASTINGS IN PAVEMENT



PATCH WITH ACSC, ACIC OR ACBC
AS DIRECTED BY THE ENGINEER

PATCHING EXISTING PAVEMENT DETAIL

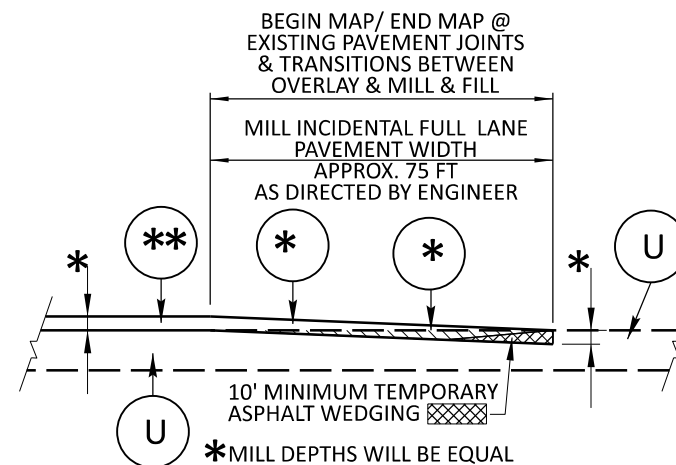


BRIDGE HALF TYPICAL SECTION

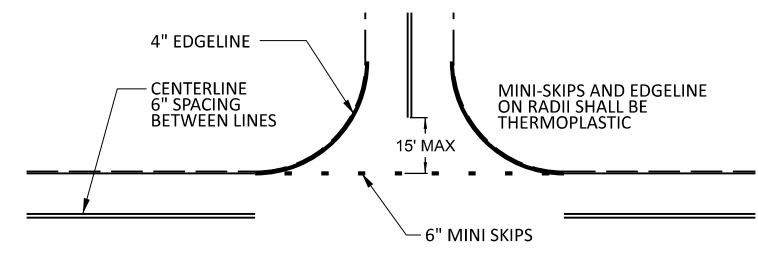
FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN. THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN $\frac{3}{8}$ " SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

NOTES
ALL UNPAVED S.R. ROUTES TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROUTES TO BE RESURFACED TO END OF RADDII, OR AS DIRECTED BY THE ENGINEER. EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES. BRIDGES TO BE RESURFACED AT LOCATIONS AND DEPTH AS DIRECTED BY THE ENGINEER.

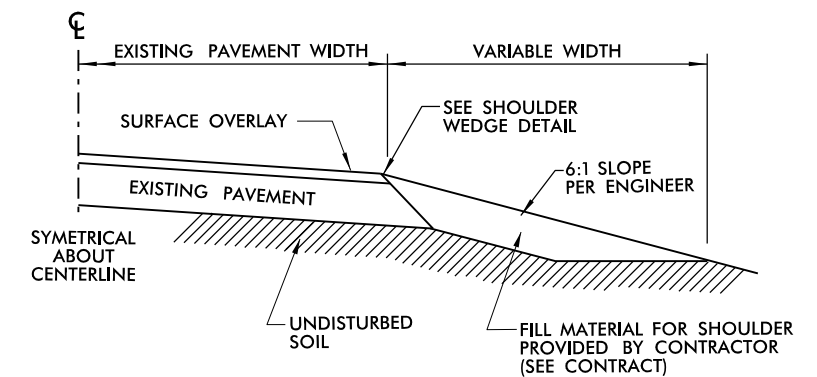


INCIDENTAL MILLING AT TIE-IN DETAIL



NOTE: MINI SKIPS SHALL BE PLACED ON A 8' CYCLE, CONTAINING A 6' AND 2' SKIP, THE WIDTH OF THE SKIP SHALL BE 6".

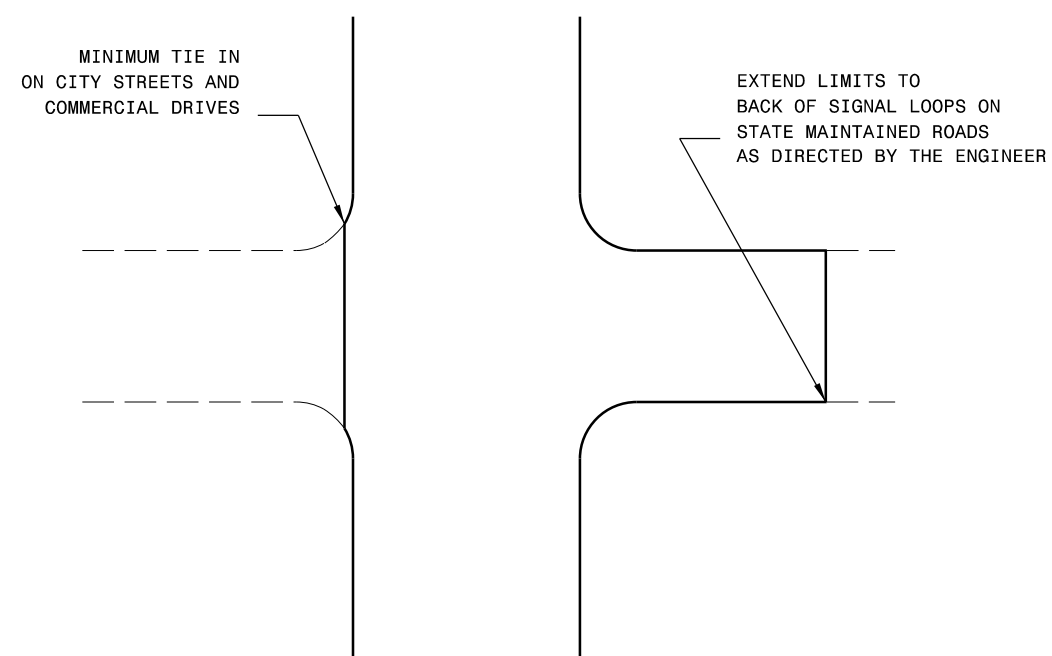
TO BE USED AT ALL
NON-SIGNALIZED INTERSECTIONS
(NOT TO SCALE)



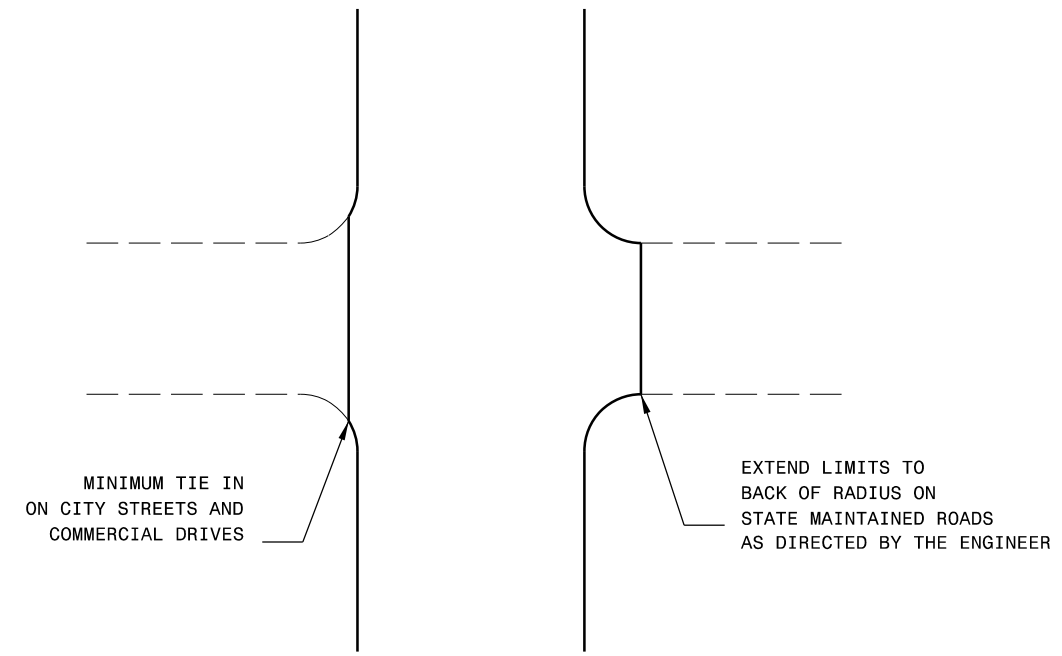
SHOULDER RECONSTRUCTION

* PLACE ASB OR BORROW AS DIRECTED BY THE ENGINEER

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 110 LBS PER SQ YD.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
F	AST MAT COAT, #67
F1	AST MAT COAT, #78M
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT
V	MILL ASPHALT PAVEMENT, 1" DEPTH
V1	MILL ASPHALT PAVEMENT, 1½" DEPTH



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES

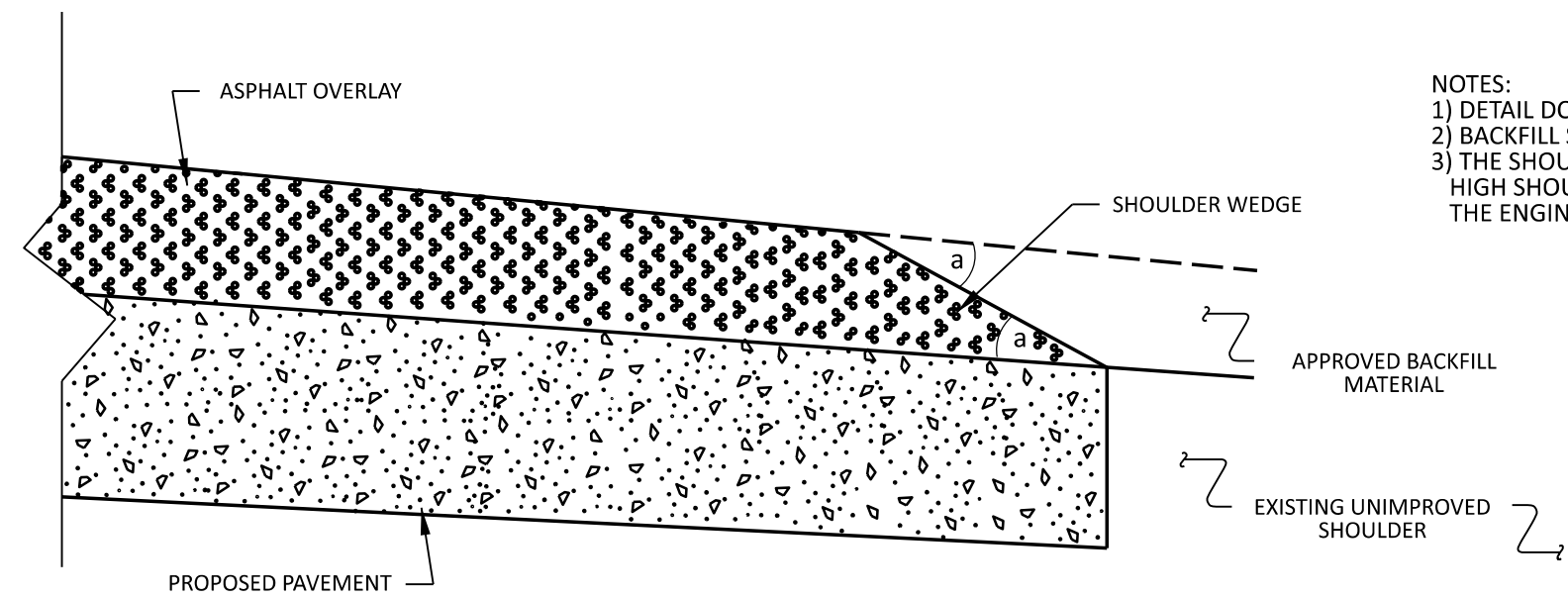


TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)

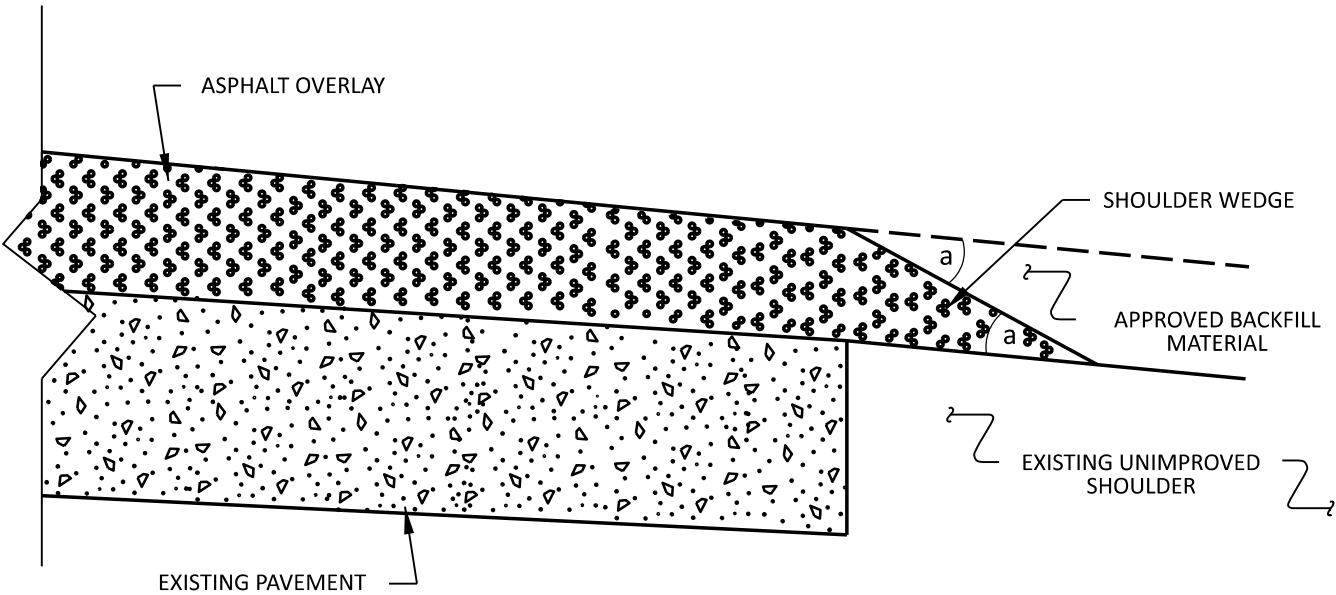
Extend paving limits to back of radius
or loop on the following intersections:

[illegible]

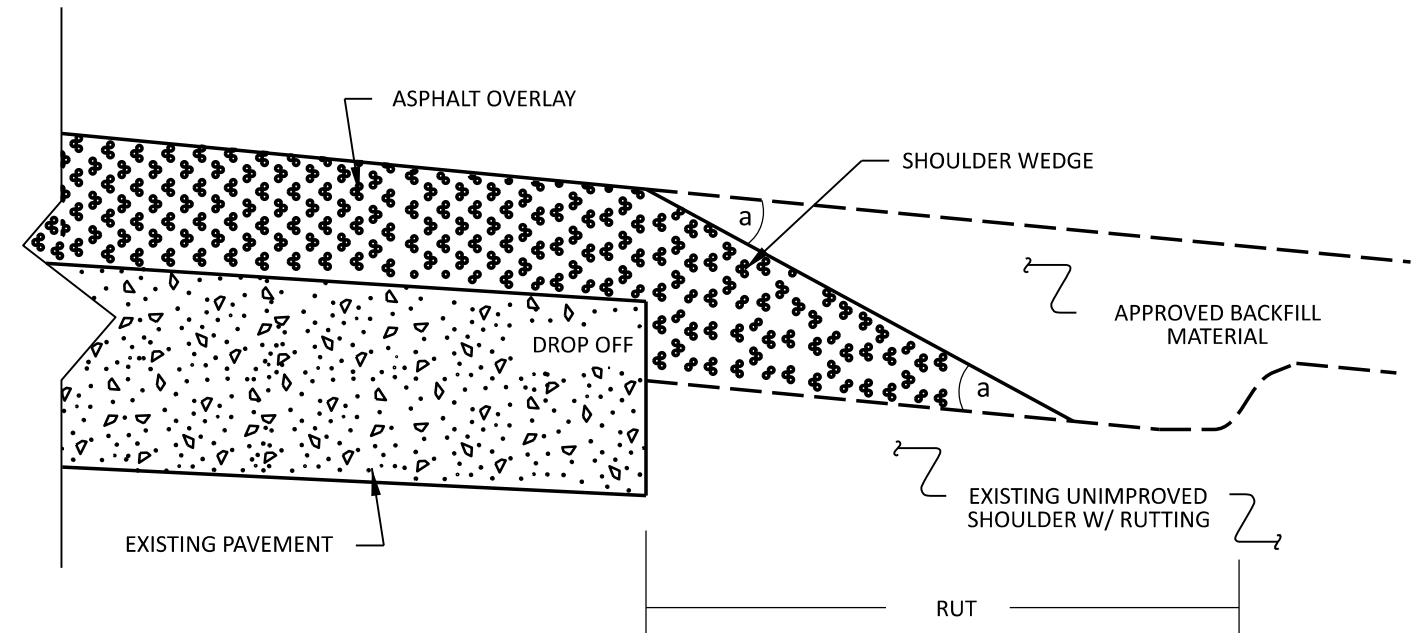


NOTES:
1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS DIRECTED BY THE ENGINEER.

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:	10/16/12
CHECKED BY:		DATE:	
FILE SPEC.:	s:\usr\details\stand\shoulderwedgedetail.dgn		

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.07.07.20681	21	

SUMMARY OF QUANTITIES

												0106000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E		1330000000-E	1519000000-E	1575000000-E	1704000000-E	1775000000-E	1775000000-E	1838000000-E	2830000000-N	2845000000-N	5255000000-N	6000000000-E	6071010000-E	6084000000-E	7990000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH																						
								MI	FT	BEGIN MP	END MP	CY	TONS	SMI	TON	SY	SY	SY	TONS	TON	TONS	SY	SY	GAL	EA	EA	LS	LF	LF	AC	LF
								0.63																							
2026CPT.07.07.20681	Orange	1	SR-1750 / N ESTES DR	FROM CASWELL RD TO SR 1010 - E FRANKLIN ST	1	3	M2	0.63	33	0.73	1.36					12,737		644	1,214	79				22	14			2,010			
TOTAL FOR MAP NO. 1								0.63								12,737		644	1,214	79				22	14			2,010			
2026CPT.07.07.20681	Orange	2	SR-1772 / N GREENSBORO ST	FROM JOINT 130' NORTH OF SR 1010 - W/E MAIN ST TO JOINT 60' SOUTH OF OAK AVE	1	3	M2	0.50	32	0.00	0.50		105			8,560		672	838	54				23	25	0.500		1,008			
TOTAL FOR MAP NO. 2								0.50					105			8,560		672	838	54				23	25	0.500		1,008			
2026CPT.07.07.20681	Orange	3	SR-1919 / S GREENSBORO ST	FROM BRAXTON FOUSHEE ST TO JOINT 100' SOUTH OF SR 1010 - W/E MAIN ST	1	2	2WU	0.09	25	3.52	3.61					1,545		379	175	11				6	4	0.500					
TOTAL FOR MAP NO. 3								0.09								1,545		379	175	11				6	4	0.500					
2026CPT.07.07.20681	Orange	4	SR-1864 / CAPREA CT	FROM SR 1863 - BRISBANE DR TO CUL DE SAC	2	2	2WU	0.05	20	0.00	0.05	2	3	0.09			175	102	7	10	1,126		372				19	2	0.01		
TOTAL FOR MAP NO. 4								0.05				2	3	0.09			175	102	7	10	1,126		372				19	2	0.01		
2026CPT.07.07.20681	Orange	5	SR-2216 / VALLIE HI LN	FROM SR 1723 - NEW HOPE CHURCH RD TO END MAINT	2	2	2WU	0.24	20	0.00	0.24	4	15	0.43	12		167	229	17	45	2,527		834				86	9	0.02		
TOTAL FOR MAP NO. 5								0.24				4	15	0.43	12		167	229	17	45	2,527		834				86	9	0.02		
2026CPT.07.07.20681	Orange	6	SR-1460 / VIRGINIA LEE LN	FROM SR 1340 - HIGH ROCK RD TO SR 1343 - MILL CREEK RD	2	2	2WU	0.54	21	0.00	0.54	26		1.04			446	626	41	10	6,620		2,185				207	21	0.09		
TOTAL FOR MAP NO. 6								0.54				26		1.04			446	626	41	10	6,620		2,185				207	21	0.09		
2026CPT.07.07.20681	Orange	7	SR-1461 / STACY CT	FROM SR 1460 - VIRGINIA LEE LN TO CUL DE SAC	2	2	2WU	0.17	20	0.00	0.17	8	3	0.32				211	14	10	2,320		766				64	6	0.03		
TOTAL FOR MAP NO. 7								0.17				8	3	0.32				211	14	10	2,320		766				64	6	0.03		
2026CPT.07.07.20681	Orange	8	SR-1462 / SUNGLOW CT	FROM SR 1460 - VIRGINIA LEE LN TO CUL DE SAC	2	2	2WU	0.09	19	0.00	0.09	4		0.17				117	8	10	1,290		426				34	3	0.02		
TOTAL FOR MAP NO. 8								0.09				4		0.17				117	8	10	1,290		426				34	3	0.02		
2026CPT.07.07.20681	Orange	9	SR-1415 / WAGON FARM RD	FROM SR 1414 - POPLAR DR TO END MAINT	2	2	2WU	0.38	20	0.00	0.38	19	63	0.75				463	31	25	4,568		1,507				150	15	0.07		
TOTAL FOR MAP NO. 9								0.38				19	63	0.75				463	31	25	4,568		1,507				150	15	0.07		
2026CPT.07.07.20681	Orange	10	SR-1414 / POPLAR DR	FROM SR 1340 - HIGH ROCK RD TO END PVMT	5	2	2WU	0.35	20	0.00	0.35	12	30	0.67	9		167	371	25	25						133	13	0.04			
TOTAL FOR MAP NO. 10								0.35				12	30	0.67	9		167	371	25	25						133	13	0.04			
2026CPT.07.07.20681	Orange	11	SR-1418 / TRAIL DR	FROM SR 1415 - WAGON FARM RD TO END MAINT	2	2	2WU	0.14	18	0.00	0.14	7	15	0.27				141	10	10	1,469		485				54	5	0.02		
TOTAL FOR MAP NO. 11								0.14				7	15	0.27				141	10	10	1,469		485				54	5	0.02		
2026CPT.07.07.20681	Orange	12	SR-1443 / ALICE MILLER CT	FROM SR 1442 - BUCKWALTER LN TO CUL DE SAC	2	2	2WU	0.19	20	0.00	0.19	10	48	0.39				263	18	28	2,731		901	1			78	8	0.04		
TOTAL FOR MAP NO. 12								0.19				10	48	0.39				263	18	28	2,731		901	1			78	8	0.04		
2026CPT.07.07.20681	Orange	13	SR-1453 / BOUNDBROOK DR	FROM SR 1443 - ALICE MILLER CT TO END MAINT	2	2	2WU	0.29	20	0.00	0.29	12	51	0.55	3			332	23	22	3,375		1,114		2		111	11	0.05		
TOTAL FOR MAP NO. 13								0.29				12	51	0.55	3			332	23	22	3,375		1,114		2		111	11	0.05		
2026CPT.07.07.20681	Orange	14	SR-1442 / BUCKWALTER LN	FROM SR 1312 - RICHMOND RD TO SR 1453 - BOUNDBROOK DR	2	2	2WU	0.12	22	0.00	0.12	4	9	0.19	2		225	140	10	22	1,318		435		2		39	4	0.01		
TOTAL FOR MAP NO. 14								0.12				4	9	0.19	2		225	140	10	22	1,318		435		2		39	4	0.01		
2026CPT.07.07.20681	Orange	15	SR-1653 / CHURTON GROVE BLVD	FROM SR 1002 - ST MARYS RD TO SR 2300 - N SCOTSWOOD BLVD	3	2	2WU	0.85	37	0.00	0.85					18,449	2,051	1,240	85	85			12								
TOTAL FOR MAP NO. 15								0.85								18,449	2,051	1,240	85	85			12								
2026CPT.07.07.20681	Orange	16	SR-1657 / DUNN PL	FROM SR 1653 - CHURTON GROVE BLVD TO CUL DE SAC	3	2	2WU	0.07	21	0.00	0.07					736	427	70	5	10			2								
TOTAL FOR MAP NO. 16								0.07								736	427	70	5	10			2								
2026CPT.07.07.20681	Orange	17	SR-1654 / FOREMAN ST	FROM SR 1653 - CHURTON GROVE BLVD TO CUL DE SAC	3	2	2WU	0.10	22	0.00	0.10					1,095	427	92	7	12			2								
TOTAL FOR MAP NO. 17								0.10								1,095	427	92	7	12			2								
2026CPT.07.07.20681	Orange	18	SR-1656 / JAMES MADISON PL	FROM SR 1655 - PATRICK HENRY LN TO CUL DE SAC	3	2	2WU	0.11	22	0.00	0.11					1,184	428	98	7	11			1								
TOTAL FOR MAP NO. 18								0.11								1,184	428	98	7	11			1								
2026CPT.07.07.20681	Orange	19	SR-1658 / MCRAE PL	FROM SR 1653 - CHURTON GROVE BLVD TO CUL DE SAC	3	2	2WU	0.07	21	0.00	0.07					646	427	65	5	8			2								
TOTAL FOR MAP NO. 19								0.07								646	427	65	5	8			2								
2026CPT.07.07.20681	Orange	20	SR-2300 / N SCOTSWOOD BLVD NB	FROM US 70 TO SR 1679 - AINSWORTH BLVD	1	2	2WD	0.37	21	0.00	0.37				5,631		678	573	39	46			1	2							
2026CPT.07.07.20681	Orange	20	SR-2300 / N SCOTSWOOD BLVD SB	FROM SR 1679 - AINSWORTH BLVD TO US 70	1	2	2WD	0.36	21	0.38	0.74				5,631		86	519	36	45			1	1							
TOTAL FOR MAP NO. 20								0.73							11,262		764	1,092	75	91			2	3							
2026CPT.07.07.20681	Orange	21	SR-1655 / PATRICK HENRY LN	FROM SR 1653 - CHURTON GROVE BLVD TO CUL DE SAC	3	2	2WU	0.20	22	0.00	0.20					2,372	544	176	12	22			6								
TOTAL FOR MAP NO. 21								0.20								2,372	544	176	12	22			6								
2026CPT.07.07.20681	Orange	22	SR-1270 / CRAFTSMAN ST	FROM SR 1269 - TUSCANY DR TO CUL DE SAC	2	2	2WU	0.21	20	0.00	0.21	10		0.41			681	284	20	25	2,705		893				83	8	0.04		
TOTAL FOR MAP NO. 22								0.21				10		0.41			681	284	20	25	2,705		893				83	8	0.04		
2026CPT.07.07.20681	Orange	23	SR-1269 OI / TUSCANY DR	FROM SR 1115 - ARTHUR MINNIS RD TO CUL DE SAC	2	2	2WU	0.47	20	0.00	0.47	23		0.92			946	592	42	67	5,798		1,913				184	18	0.08		
TOTAL FOR MAP NO. 23								0.47				23		0.92			946	592	42	67	5,798		1,913				184	18	0.08		
2026CPT.07.07.20681	Orange	24	SR-2287 / EZEKIEL PEPPERS TRL	FROM SR 1729 - ROGERS RD TO SR 2288 - JUBILEE DR	3	2	2WU	0.04	22	0.00	0.04					258		16	2	10				1							
TOTAL FOR MAP NO. 24								0.04								258		16	2	10				1							
2026CPT.07.07.20681	Orange	25	SR-2288 / JUBILEE DR	FROM END MAINT TO CUL DE SAC	3	2	2WU	0.11	22	0.00	0.11					1,781	156	117	8	14			4	4							
TOTAL FOR MAP NO. 25								0.11								1,781	156	117	8	14			4	4							
2026CPT.07.07.20681	Orange	26	SR-1261 / GALAX CT	FROM SR 1259 - OXBOW CROSSING RD TO CUL DE SAC	2	2	2WU	0.08	20	0.00	0.08	4		0.16				115	8	14	1,269		419				31	3	0.01		
TOTAL FOR MAP NO. 26								0.08				4		0.16				115	8	14	1,269		419				31	3	0.01		
2026CPT.07.07.20681	Orange	27	SR-1260 / OCONEE CT	FROM SR 1259 - OXBOW CROSSING RD TO CUL DE SAC	2	2	2WU	0.12	18	0.00	0.12	6		0.23				146	10	11	1,614		533				45	5	0.02		
TOTAL FOR MAP NO. 27								0.12				6		0.23				146	10	11	1,614		533				45	5	0.02		
2026CPT.07.07.20681	Orange	28	SR-1259 / OXBOW CROSSING RD	FROM SR 1104 - BETHEL HICKORY GROVE CHURCH RD TO CUL DE SAC	2	2	2WU	0.45	19	0.00	0.45	22		0.90			158	529	37	64	5,391		1,779				180	18	0.08		
TOTAL FOR MAP NO. 28								0.45				22		0.90			158	529	37	64	5,391		1,779				180	18	0.08		
2026CPT.07.07.20681	Orange	29	SR-2282 / CREEK RUN CT	FROM SR 2281 - CREEK WOOD DR TO CUL DE SAC</																											

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.07.07.20681	22	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH				0106000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E			1330000000-E	1519000000-E	1575000000-E	1704000000-E	1775000000-E	1775500000-E	1838000000-E	2830000000-N	2845000000-N	5255000000-N	6000000000-E	6071010000-E	6084000000-E		7990000000-E	
								MI	FT	BEGIN MP	END MP		CY	TONS	SMI	TON	SY	SY	SY	TONS	TON	TONS	SY	SY	SY	TONS	EA	EA	EA	EA	EA	EA	EA	EA	EA
2026CPT.07.07.20681	Orange	31	SR-2283 / CREEK RIDGE LN	FROM SR 2281 - CREEK WOOD DR TO CUL DE SAC	2	2	2WU	0.40	22	0.00	0.40	20		0.79							496	35	56	5,465		1,804					157	16	0.07		
TOTAL FOR MAP NO. 31								0.40				20		0.79							496	35	56	5,465		1,804					157	16	0.07		
2026CPT.07.07.20681	Orange	32	SR-2421 / BRIDGETON PL	FROM SR 2281 - CREEK WOOD DR TO CUL DE SAC	2	2	2WU	0.08	22	0.00	0.08	5		0.19							152	10	11	1,670		551					39	4	0.02		
TOTAL FOR MAP NO. 32								0.08				5		0.19							152	10	11	1,670		551					39	4	0.02		
2026CPT.07.07.20681	Orange	33	SR-1332 / HIGHLAND FARM RD	FROM SR 1334 - COLEMAN LOOP TO SR 1004 - EFLAND CEDAR GROVE RD	2	2	2WU	3.13	21	1.16	4.29	54	90	6.19	190				358	3,691	255	312	39,285		12,964					1,239	124	0.20			
TOTAL FOR MAP NO. 33								3.13				54	90	6.19	190				358	3,691	255	312	39,285		12,964					1,239	124	0.20			
2026CPT.07.07.20681	Orange	34	SR-1777 / HOMESTEAD RD	FROM NC 86 TO WEAVER DAIRY RD EXT	1	3	M2	0.52	20	0.00	0.52		75				32,809		2,238	3,181	224	367					10	35					2,412		
2026CPT.07.07.20681	Orange	34	SR-1777 / HOMESTEAD RD	FROM SR 2251 - MERIN RD TO E WINMORE AVE	1	3	M3	0.89	20	0.82	1.71																								
2026CPT.07.07.20681	Orange	34	SR-1777 / HOMESTEAD RD	FROM E WINMORE AVE TO SR 1009 - HILLSBOROUGH RD	2	2	2WU	1.63	26	1.71	3.34	44		3.21	68				675	2,997	195			31,869		10,517				642	64	0.16			
TOTAL FOR MAP NO. 34								3.04				44	75	3.21	68	32,809			2,913	6,178	419	367	31,869		10,517	10	35			642	64	0.16	2,412		
2026CPT.07.07.20681	Orange	35	SR-1649 / CROWN CT	FROM SR 1563 - YATES RD TO CUL DE SAC	2	2	2WU	0.30	18	0.00	0.30	12	6	0.38	5				179	320	22	22	3,522		1,162					116	12	0.04			
TOTAL FOR MAP NO. 35								0.30				12	6	0.58	5				179	320	22	22	3,522		1,162					116	12	0.04			
2026CPT.07.07.20681	Orange	36	SR-1672 / MAGGIE LN	FROM SR 1671 - NICHOLS DR TO CUL DE SAC	2	2	2WU	0.10	18	0.00	0.10	5	18	0.20							128	9	15	1,408		465				39	4	0.02			
TOTAL FOR MAP NO. 36								0.10				5	18	0.20							128	9	15	1,408		465				39	4	0.02			
2026CPT.07.07.20681	Orange	37	SR-1192 / MAYO ST	FROM SR 1006 - ORANGE GROVE RD TO SR 1009 - S CHURTON ST	2	2	2WU	0.28	27	0.00	0.28	7	3	0.48	9				633	450	30	22	4,711		1,555					95	10	0.03	472		
TOTAL FOR MAP NO. 37								0.28				7	3	0.48	9				633	450	30	22	4,711		1,555					95	10	0.03	472		
2026CPT.07.07.20681	Orange	38	SR-2056 / MOONLIGHT DR	FROM SR 1948 - FERGUSON RD TO CUL DE SAC	2	2	2WU	0.35	19	0.00	0.35	9	45	0.70	16				163	395	27	28	4,354		1,437					139	14	0.03			
TOTAL FOR MAP NO. 38								0.35				9	45	0.70	16				163	395	27	28	4,354		1,437					139	14	0.03			
2026CPT.07.07.20681	Orange	39	SR-1671 / NICHOLS DR	FROM NC 57 TO CUL DE SAC	2	2	2WU	0.24	18	0.00	0.24	11	18	0.44				158	259	18	22	2,719		897					88	9	0.04				
TOTAL FOR MAP NO. 39								0.24				11	18	0.44				158	259	18	22	2,719		897					88	9	0.04				
2026CPT.07.07.20681	Orange	40	SR-2284 / NORTHBRIDGE LN	FROM SR 1732 - SUNRISE RD TO CUL DE SAC	2	2	2WU	0.15	17	0.00	0.15	7		0.29				175	171	12	11	1,889		623					58	6	0.03				
TOTAL FOR MAP NO. 40								0.15				7		0.29				175	171	12	11	1,889		623					58	6	0.03				
2026CPT.07.07.20681	Orange	41	SR-1245 / OAK POINTE CT	FROM SR 1244 - OAK POINTE LN TO CUL DE SAC	2	2	2WU	0.05	18	0.00	0.05	2	15	0.09							80	6	8	880		290				20	0.01				
TOTAL FOR MAP NO. 41								0.05				2	15	0.09							80	6	8	880		290				20	0.01				
2026CPT.07.07.20681	Orange	42	SR-1244 / OAK POINTE LN	FROM SR 1138 - YARBOROUGH RD TO CUL DE SAC	2	2	2WU	0.11	18	0.00	0.11	5	15	0.20				150	133	9	10	1,368		452					40	4	0.02				
TOTAL FOR MAP NO. 42								0.11				5	15	0.20				150	133	9	10	1,368		452					40	4	0.02				
2026CPT.07.07.20681	Orange	43	SR-1300 / OAKWOOD ST	FROM SR 1301 - OAKWOOD ST EXT TO SR 1381 - S ELEVENTH ST	4	2	2WU	0.63	21	0.00	0.63	20	15	1.01	10	1,411		688	752	52	72		7,542	2,866	2	2			201	20	0.07				
TOTAL FOR MAP NO. 43								0.63				20	15	1.01	10	1,411		688	752	52	72		7,542	2,866	2	2			201	20	0.07				
2026CPT.07.07.20681	Orange	44	SR-1301 / OAKWOOD ST	FROM SR 1300 - OAKWOOD ST TO SR 1146 - MATTRESS FACTORY RD	4	2	2WU	0.71	22	0.00	0.71	14	9	1.42	40			504	984	68	77		9,714	3,691	1	4			283	28	0.05				
TOTAL FOR MAP NO. 44								0.71				14	9	1.42	40			504	984	68	77		9,714	3,691	1	4			283	28	0.05				
2026CPT.07.07.20681	Orange	45	SR-1262 / OLD HERITAGE CT	FROM SR 1009 - OLD NC 86 TO CUL DE SAC	2	2	2WU	0.15	19	0.00	0.15	7		0.29				200	185	13	13	2,044		674					59	6	0.03				
TOTAL FOR MAP NO. 45								0.15				7		0.29				200	185	13	13	2,044		674					59	6	0.03				
2026CPT.07.07.20681	Orange	46	SR-2280 / PASCAL WAY	FROM SR 1717 - KERLEY RD TO CUL DE SAC	2	2	2WU	0.05	20	0.00	0.05	5		0.19				167	133	9	12	1,466		484					38	4	0.02				
TOTAL FOR MAP NO. 46								0.05				5		0.19				167	133	9	12	1,466		484					38	4	0.02				
2026CPT.07.07.20681	Orange	47	SR-1855 / PINE TREE LN	FROM SR 1732 - SUNRISE RD TO CUL DE SAC	2	2	2WU	0.11	18	0.00	0.11	3	24	0.22	4			179	146	10	17	1,614		533					45	4	0.01				
TOTAL FOR MAP NO. 47								0.11				3	24	0.22	4			179	146	10	17	1,614		533					45	4	0.01				
2026CPT.07.07.20681	Orange	48	SR-1253 / PRESTON LOOP	FROM SR 1146 - W TEN RD TO SR 1146 - W TEN RD	2	2	2WU	0.46	18	0.00	0.46	23	48	0.91				329	451	33	74	4,972		1,641					181	18	0.08				
TOTAL FOR MAP NO. 48								0.46				23	48	0.91				329	451	33	74	4,972		1,641					181	18	0.08				
2026CPT.07.07.20681	Orange	49	SR-2202 / RED ROOF INN DR	FROM E LAKEVIEW DR TO END PVMT	2	2	2WU	0.08	21	0.00	0.08	6	9	0.33	4			442	244	16	13	2,689		887					65	7	0.02				
TOTAL FOR MAP NO. 49								0.08				6	9	0.33	4			442	244	16	13	2,689		887					65	7	0.02				
2026CPT.07.07.20681	Orange	50	SR-2245 / REX RD	FROM SR 1727 - EUBANKS RD TO CUL DE SAC	2	2	2WU	0.06	20	0.00	0.06			0.10	5			233	91	6	11	1,002		331					21	2					
TOTAL FOR MAP NO. 50								0.06						0.10	5			233	91	6	11	1,002		331					21	2					
2026CPT.07.07.20681	Orange	51	SR-1224 / RIPPY LN	FROM CUL DE SAC TO END MAINT	2	2	2WU	0.25	18	0.00	0.25	2	15	0.36	14				262	18	18	2,636		870					73	7	0.01				
TOTAL FOR MAP NO. 51								0.25				2	15	0.36	14				262	18	18	2,636		870					73	7	0.01				
2026CPT.07.07.20681	Orange	52	SR-2058 / SALEM LN	FROM SR 1005 - OLD GREENSBORO RD TO CUL DE SAC	2	2	2WU	0.27	20	0.00	0.27	5	24	0.53	15			179	320	21	12	3,521		1,162					106	11	0.02				
TOTAL FOR MAP NO. 52								0.27				5	24	0.53	15			179	320	21	12	3,521		1,162					106	11	0.02				
2026CPT.07.07.20681	Orange	53	SR-1665 / TRINITY LN	FROM NC 57 TO CUL DE SAC	2	2	2WU	0.12	18	0.00	0.12	2	18	0.23	7			196	148	10	12	1,626		537					46	5	0.01				
TOTAL FOR MAP NO. 53								0.12				2	18	0.23	7			196	148	10	12	1,626		537					46	5	0.01				
2026CPT.07.07.20681	Orange	54	SR-2328 OI / STROUDS CREEK RD	FROM NC 57 TO END MAINT	2	2	2WU	0.33	25	0.00	0.33	10	3	0.68	13	1,219		329	548	36	15	4,526		1,494		9			136	14	0.04				
TOTAL FOR MAP NO. 54								0.33				10	3	0.68	13	1,219		329	548	36	15	4,526		1,494		9			136	14	0.04				
2026CPT.07.07.20681	Orange	55	SR-1937 / UNIVERSITY LAKE RD	FROM SR 1937 - BERRYHILL DR TO OWASA GATE	2	2	2WU	0.22	18	1.30	1.52	2	9	0.46	17			217	237	16	15	2,614		863		1			92	9	0.01				
TOTAL FOR MAP NO. 55								0.22				2	9	0.46	17																				

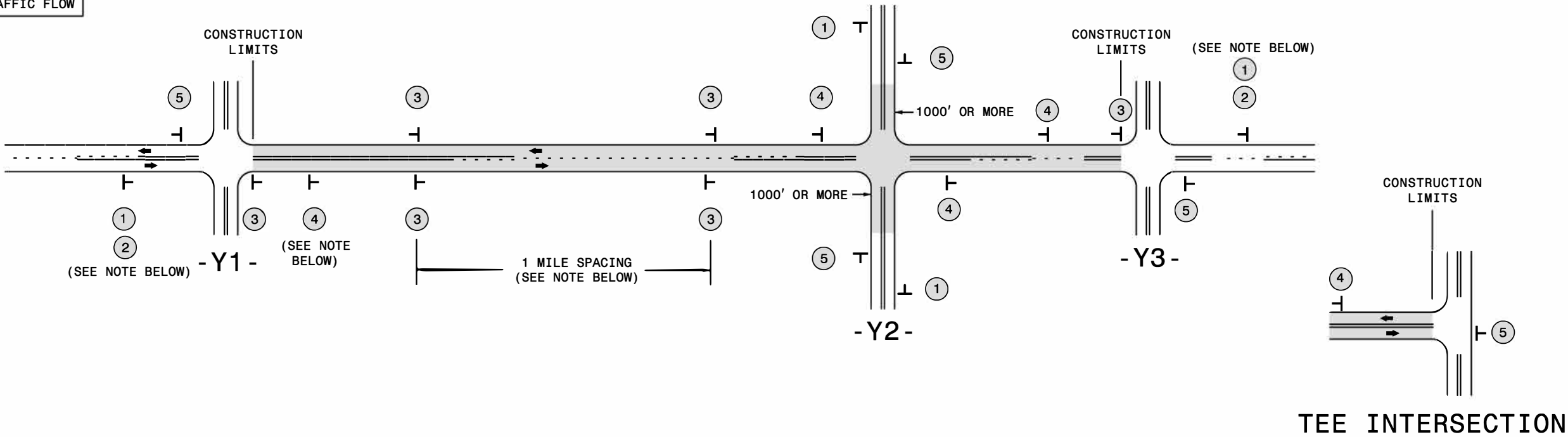
NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW

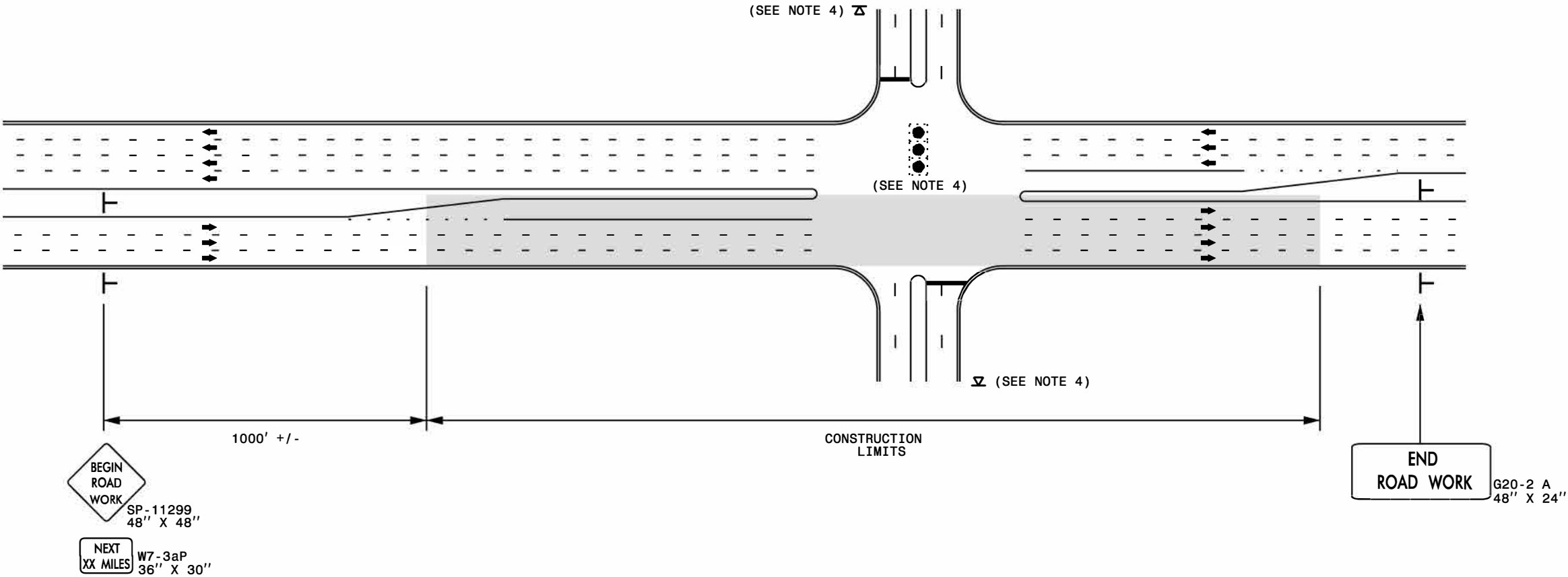


MAINLINE (-L-) SIGNING

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

URBAN / SUBURBAN WORKZONES



NOTES:

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) 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.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

└ STATIONARY SIGN

➔ DIRECTION OF TRAFFIC FLOW



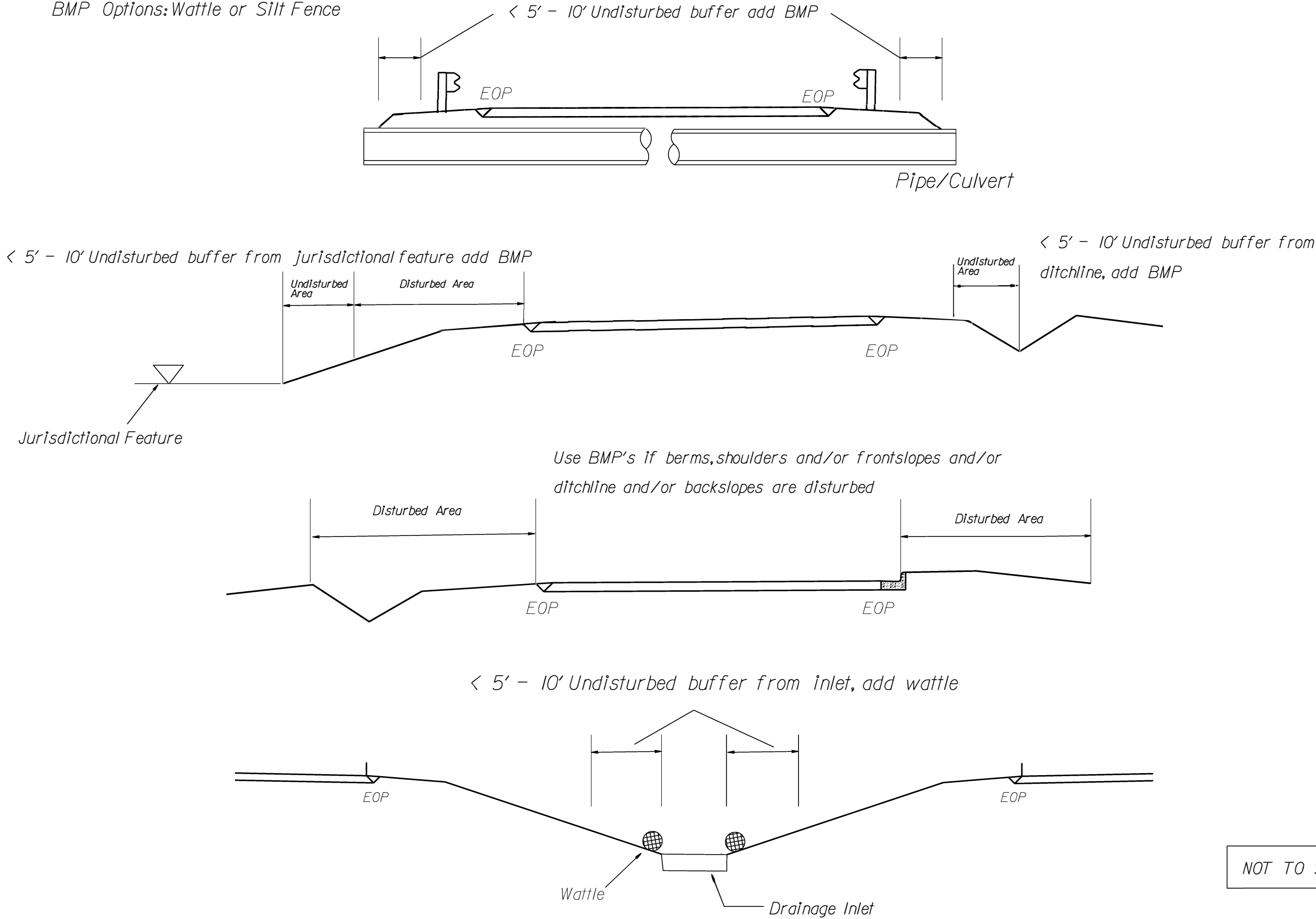
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

RESURFACING ADVANCE
WARNING SIGNS FOR
URBAN / SUBURBAN
FACILITIES

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

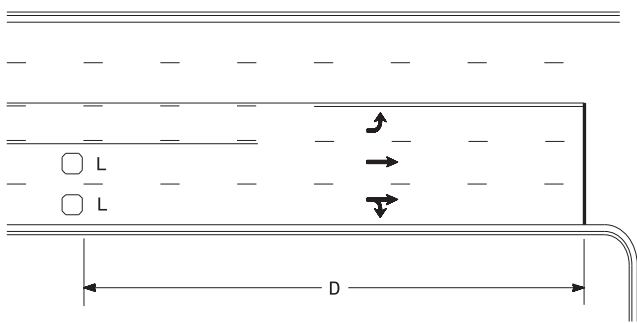
BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	ENGLISH STANDARD DRAWING FOR DEEP-CUT INDUCTIVE DETECTION LOOPS (FOR INSTALLATION PRIOR TO MILLING)	NOTES -OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH. -MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS. -WIRE LOOPS CONNECTED TO THE SAME DETECTOR IN SERIES. -LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS. -USE A SERIES OF ONE INCH PIECES OF BACKER ROD SPACED ONE FOOT APART ALONG THE ENTIRE LENGTH OF THE FEEDER SLOT AND LOOP SAW SLOT. -CONSULT LOOP SEALANT MANUFACTURER TO DETERMINE CURING TIME REQUIRED PRIOR TO MILLING. -REFER TO STANDARD DRAWING 1725.01 SHEETS 2 AND 3 FOR ADDITIONAL REQUIREMENTS.	CONVENTIONAL 4-SIDED LOOP SAW CUT OPTIONS OPTION 1 INSTALL 1" SECTIONS OF BACKER ROD ON 1 FOOT CENTERS OPTION 2 (POOR PAVEMENT) MIN. TOTAL ASPHALT REQUIRED LOOP WINDING METHOD	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.																							
		SAW SLOT DEPTH CHART ASSUMING 2" MILLING DEPTH <table><tr><th rowspan="2">DEPTH (IN)</th><th colspan="5">MAX NO. OF WIRE LAYERS</th></tr><tr><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th></tr><tr><td>SAW SLOT DEPTH</td><td>4.0</td><td>4.5</td><td>5.0</td><td>5.0</td><td>5.0</td></tr><tr><td>MINIMUM TOTAL ASPHALT DEPTH REQUIRED</td><td>5.0</td><td>5.5</td><td>6.0</td><td>6.0</td><td>6.0</td></tr></table> LOOP WIRE TWISTING METHOD INCORRECT WAY TO TWIST WIRE CORRECT WAY TO TWIST WIRE	DEPTH (IN)	MAX NO. OF WIRE LAYERS					2	3	4	5	6	SAW SLOT DEPTH	4.0	4.5	5.0	5.0	5.0	MINIMUM TOTAL ASPHALT DEPTH REQUIRED	5.0	5.5	6.0	6.0	6.0	QUADRUPOLE LOOP SAW CUT OPTIONS OPTION 1 INSTALL 1" SECTIONS OF BACKER ROD ON 1 FOOT CENTERS OPTION 2 (POOR PAVEMENT) MIN. TOTAL ASPHALT REQUIRED LOOP WINDING METHOD REVISIONS 1. REMOVED TWISTING NOTES FROM TAIL SECT. TO JUNCTION BOX. 2/26/08 MWH 2. REVISED SECTION A - A DETAILS. 6/29/15 JTP SEAL Discussed by: Milton I. Dean 7/1/2015 DATE 750 N. Greenfield Pkwy, Garner, NC 27529	ENGLISH STANDARD DRAWING FOR DEEP-CUT INDUCTIVE DETECTION LOOPS (FOR INSTALLATION PRIOR TO MILLING)
		DEPTH (IN)		MAX NO. OF WIRE LAYERS																							
2	3		4	5	6																						
SAW SLOT DEPTH	4.0	4.5	5.0	5.0	5.0																						
MINIMUM TOTAL ASPHALT DEPTH REQUIRED	5.0	5.5	6.0	6.0	6.0																						
SHEET 1 OF 1	SHEET OF	SIG-1																									

High Speed Detection
(≥40 mph)

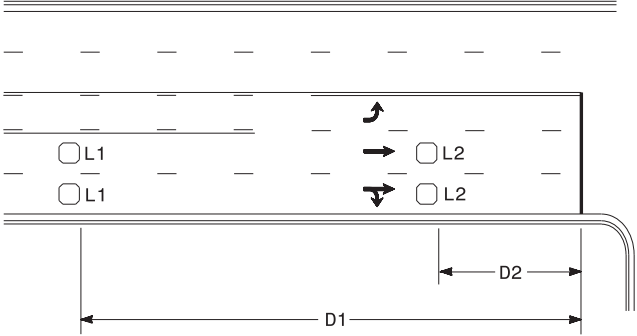


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR



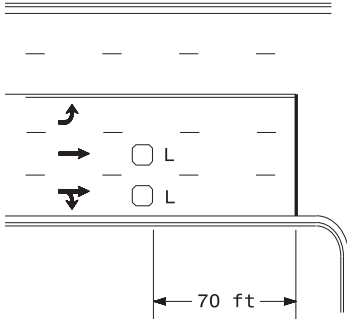
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

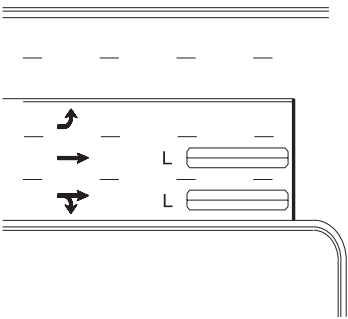
"Stretch" Operation

Low Speed Detection
(≤35 mph)



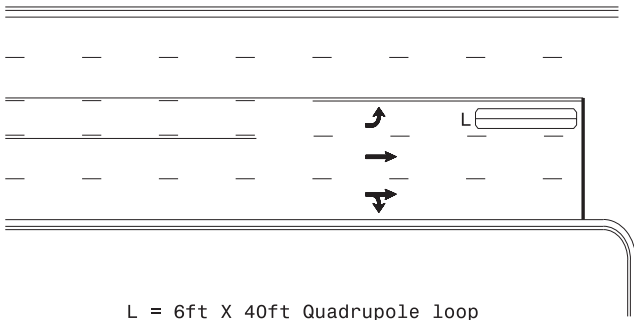
L = 6ft X 6ft
Wired in series

OR



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

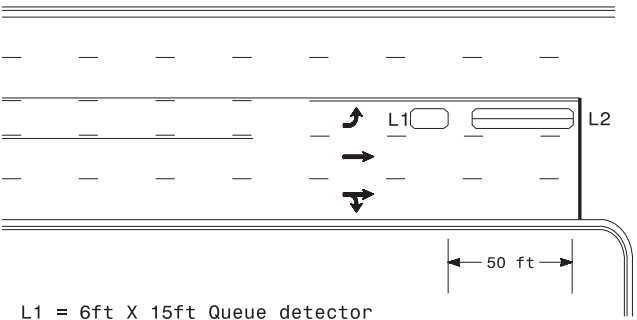
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

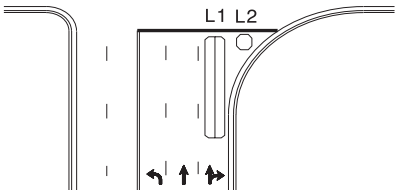
OR



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

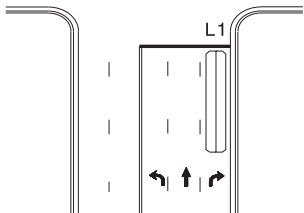
Queue Loop Detection

Right Turn Lane Detection

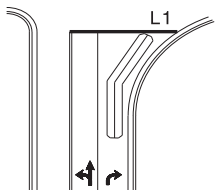


Shared Lane/
Wide Radius Turn

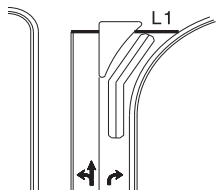
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

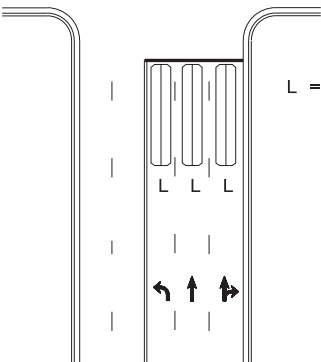


Wide Radius Turn



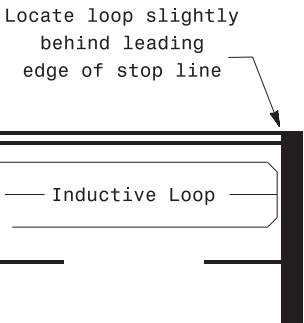
Channelized Turn

Side Street Detection



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

Presence Loop Placement at Stop Lines



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

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

Typical Signal Loop Locations

PLAN DATE: September 2020
PREPARED BY: PLA
REVIEWED BY: JGP
REVIEWED BY:
SCALE: N/A

REVISIONS
INIT.
DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
029904
JASON P. GALLOWAY
DATE
9/8/2020
SIG. INVENTORY NO.