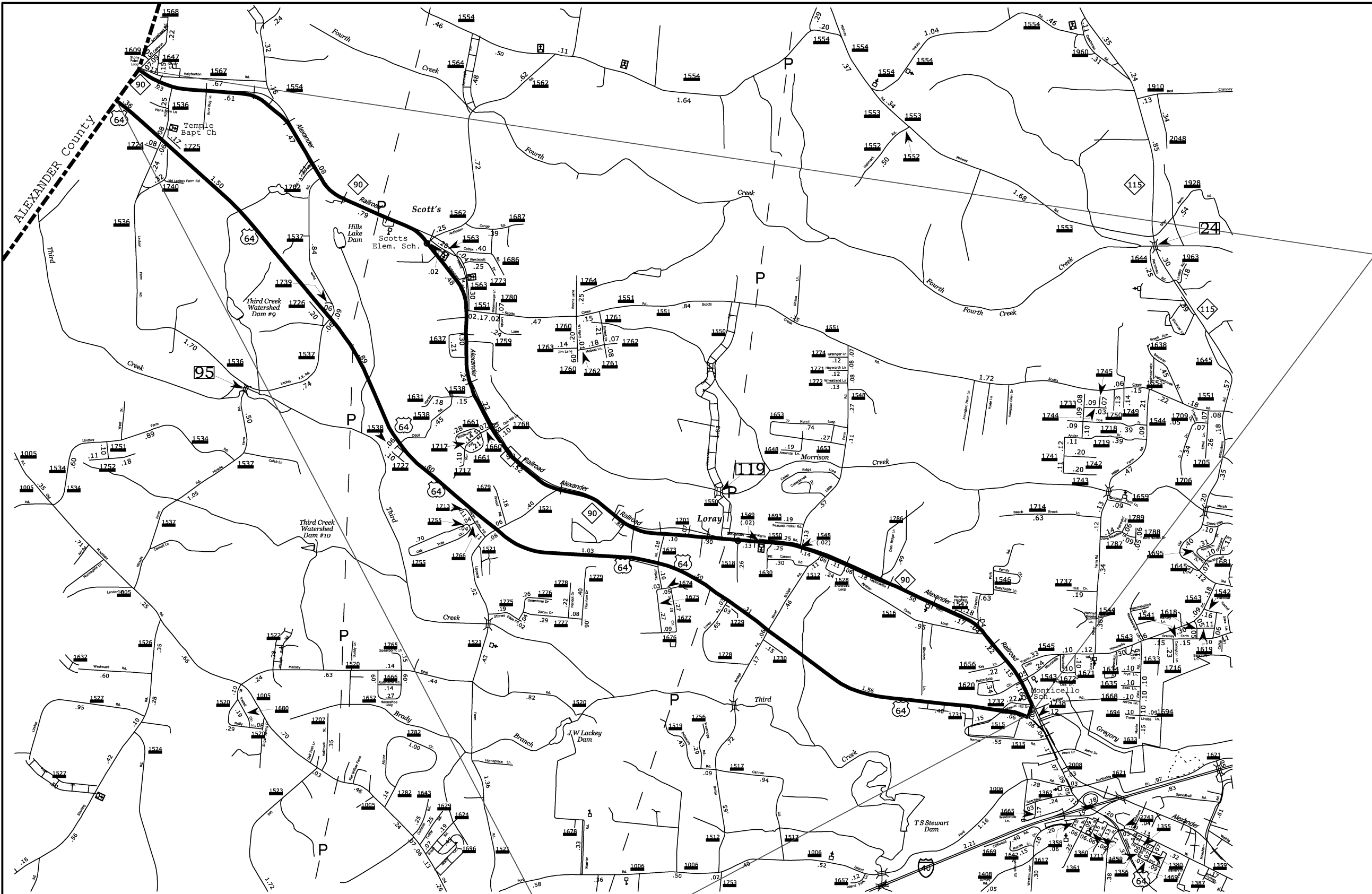


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STATE	PROJECT WBS	SHEET NUMBER
NC	12CR.10491.18	1
	12CR.20491.20	



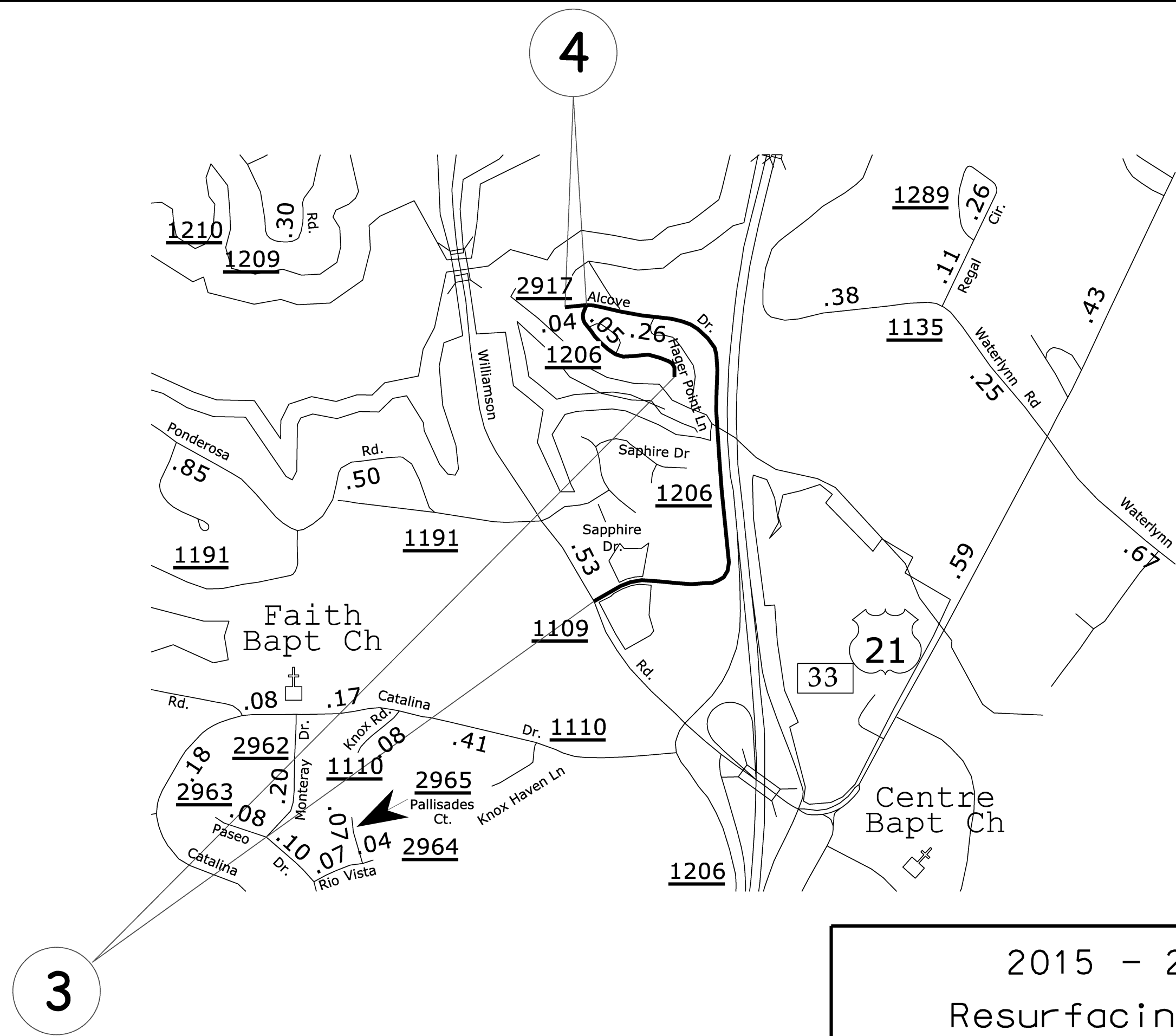
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1

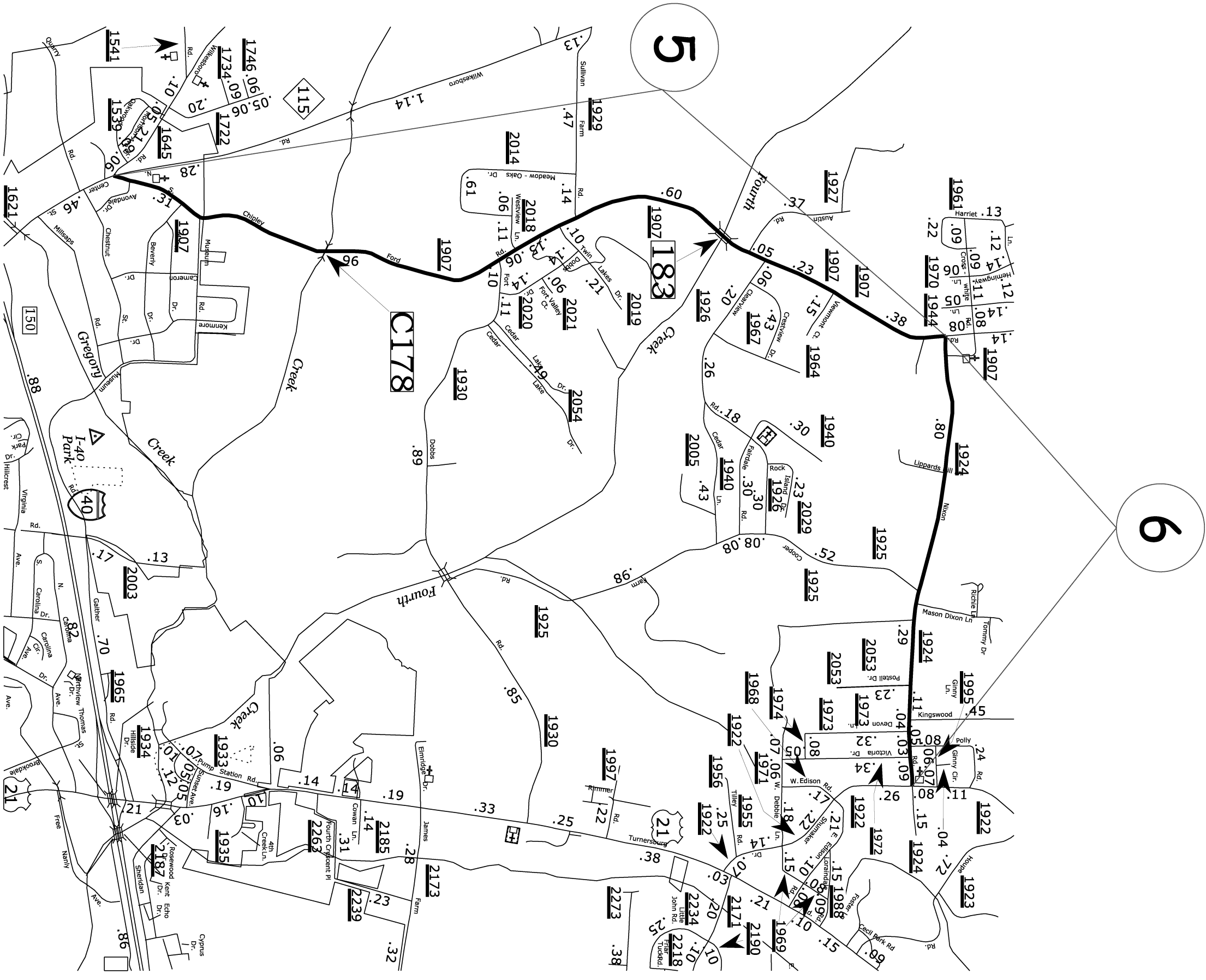


2015 - 2016  
Resurfacing Maps  
Iredell County

STATE	PROJECT WBS	SHEET NUMBER
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	12CR.20491.20	



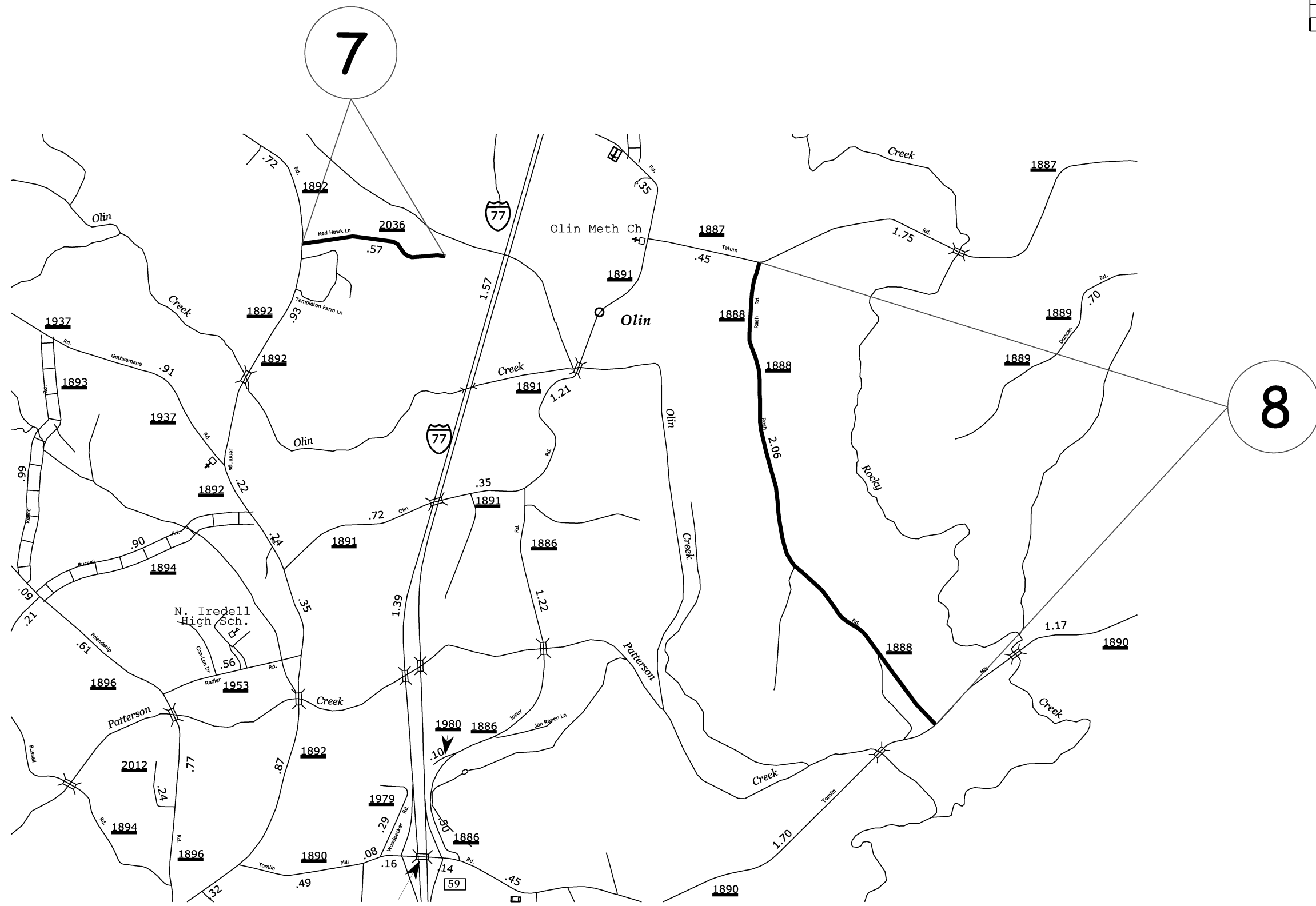
2015 - 2016  
Resurfacing Maps  
Iredell County



2015 – 2016  
Resurfacing Maps  
Iredell County

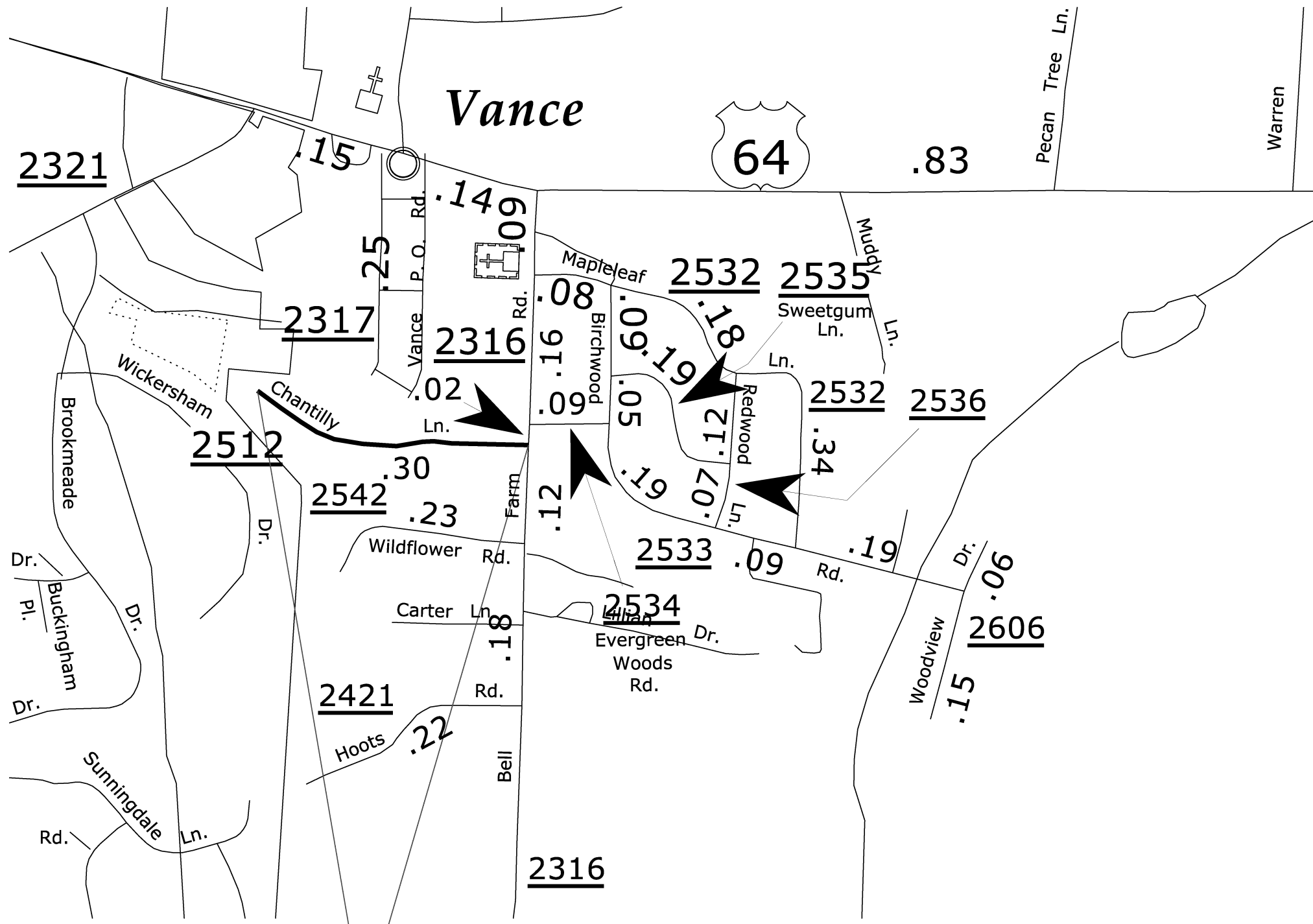


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NC	12CR.10491.18	4
	12CR.20491.20	



2015 - 2016  
 Resurfacing Maps  
 Iredell County

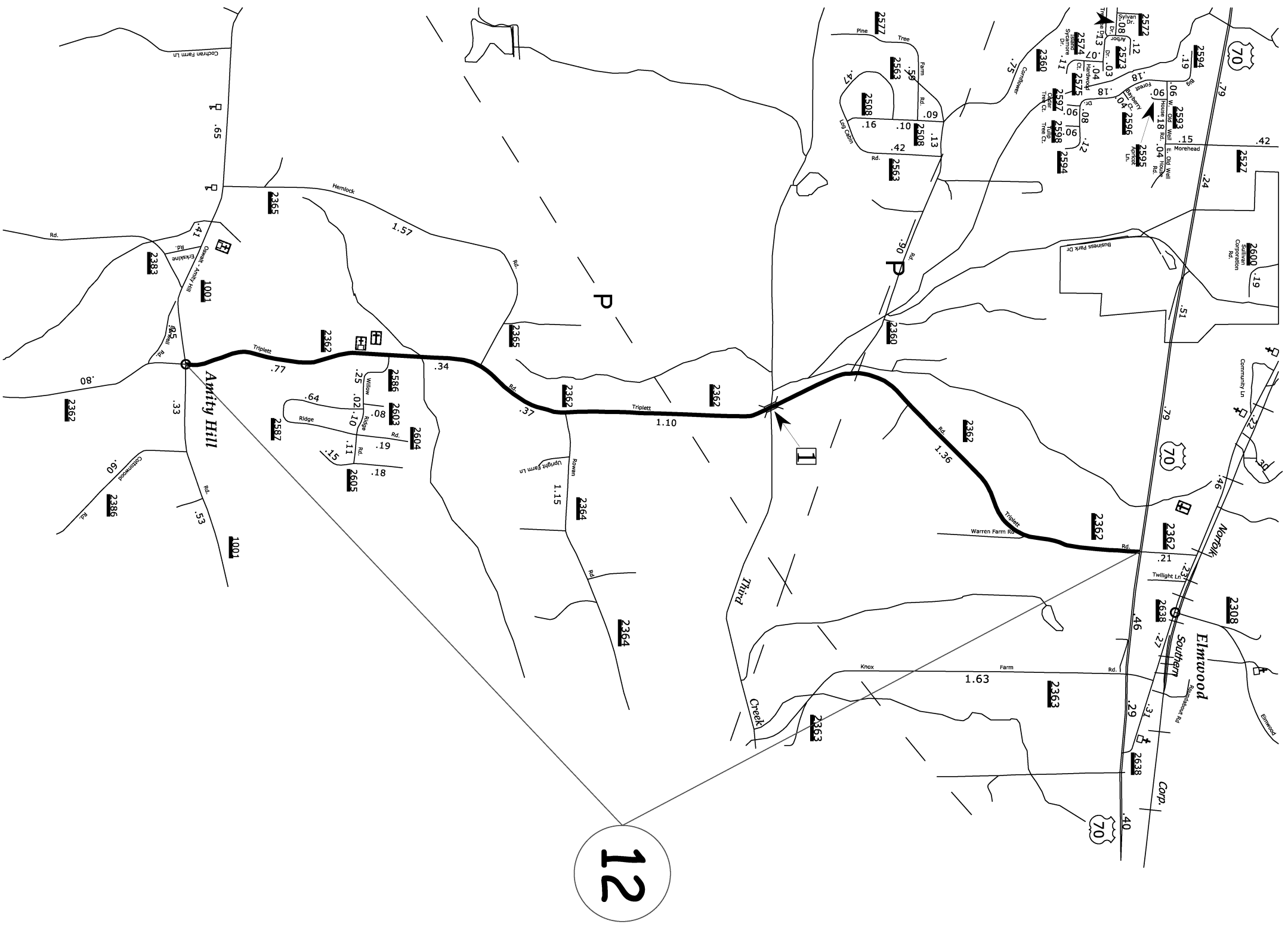
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	12CR.20491.20	



2015 - 2016  
Resurfacing Maps  
Iredell County

9



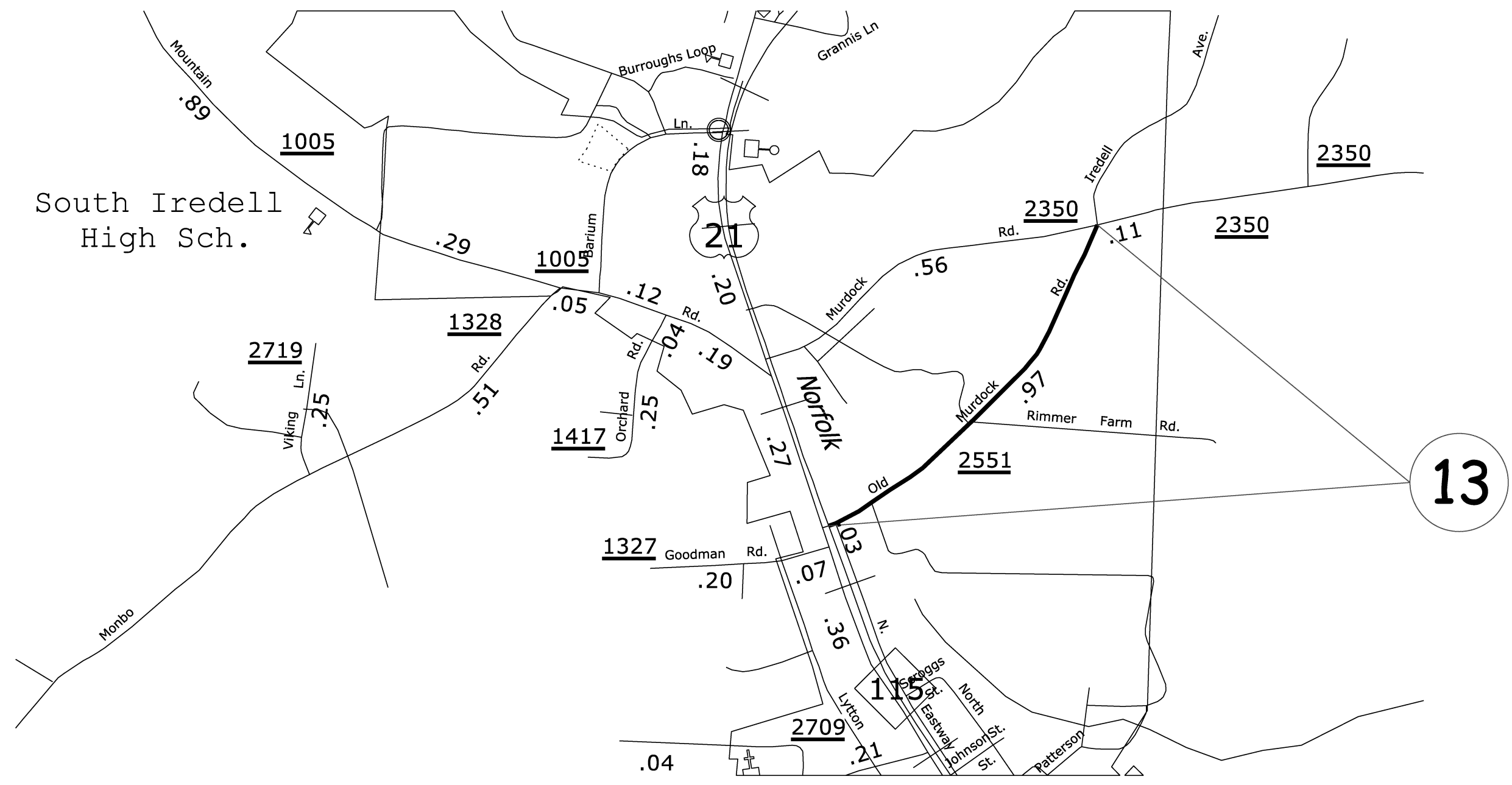


2015 – 2016  
Resurfacing Maps  
Iredell County

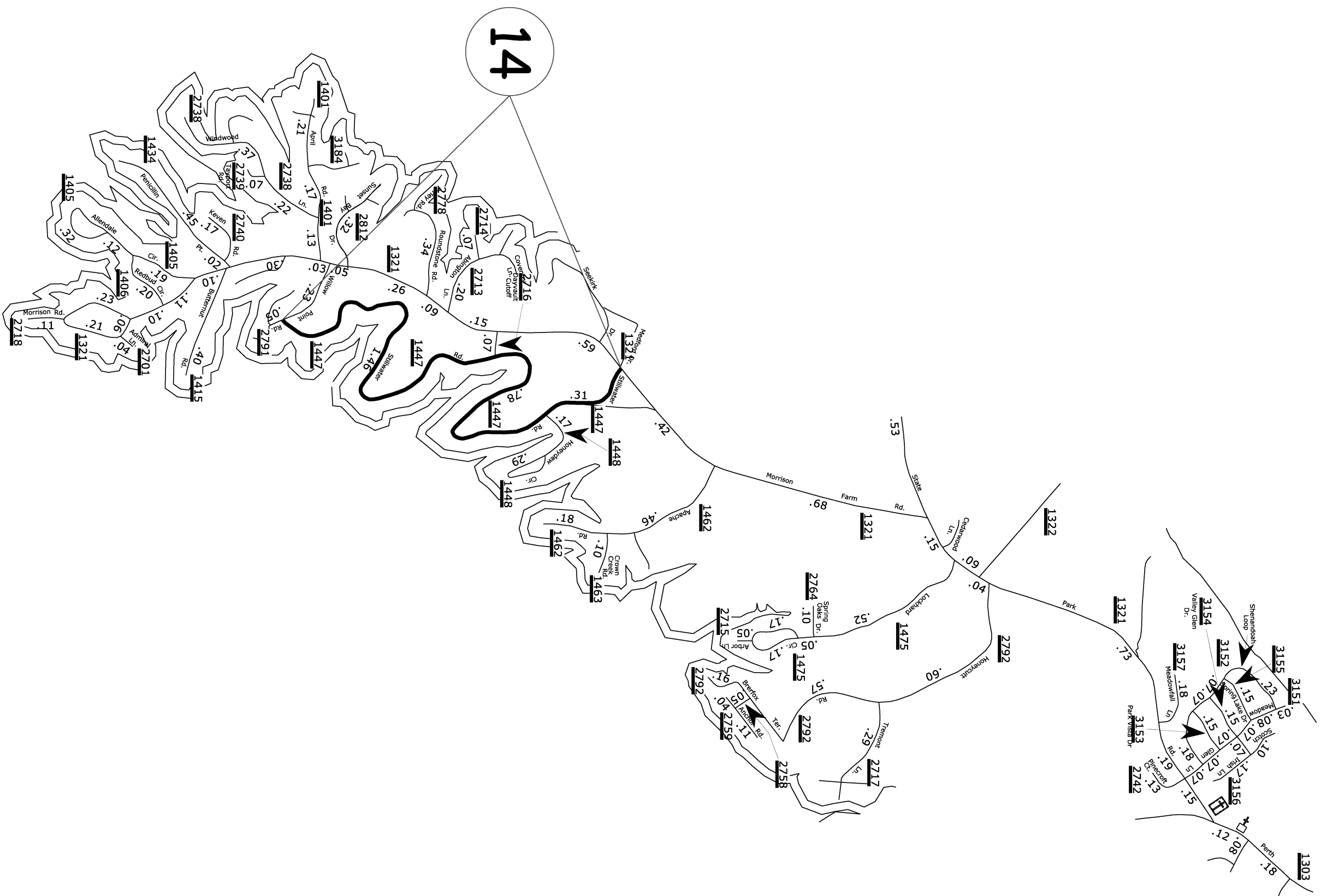




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NC	12CR.10491.18	8
	12CR.20491.20	

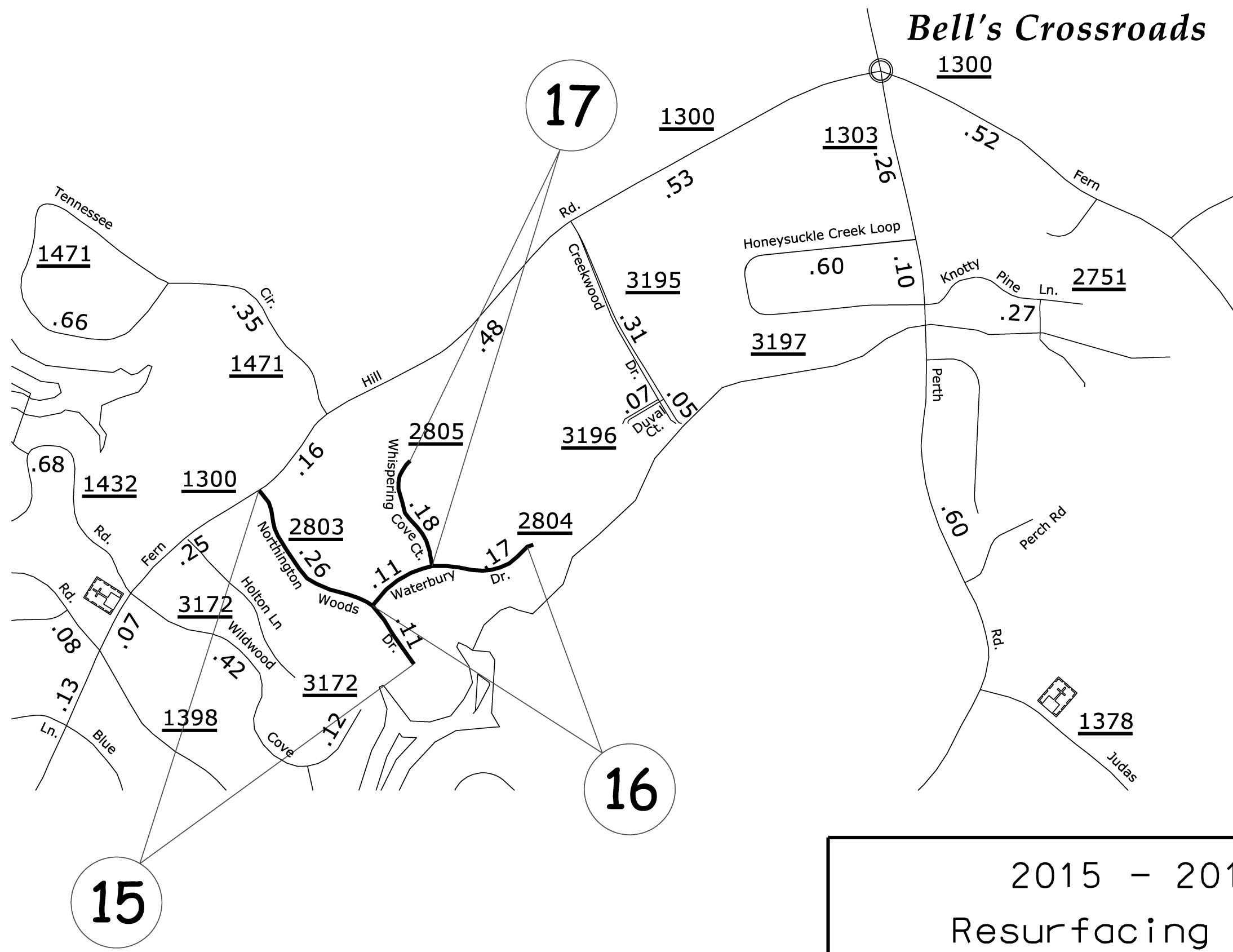


2015 - 2016  
 Resurfacing Maps  
 Iredell County



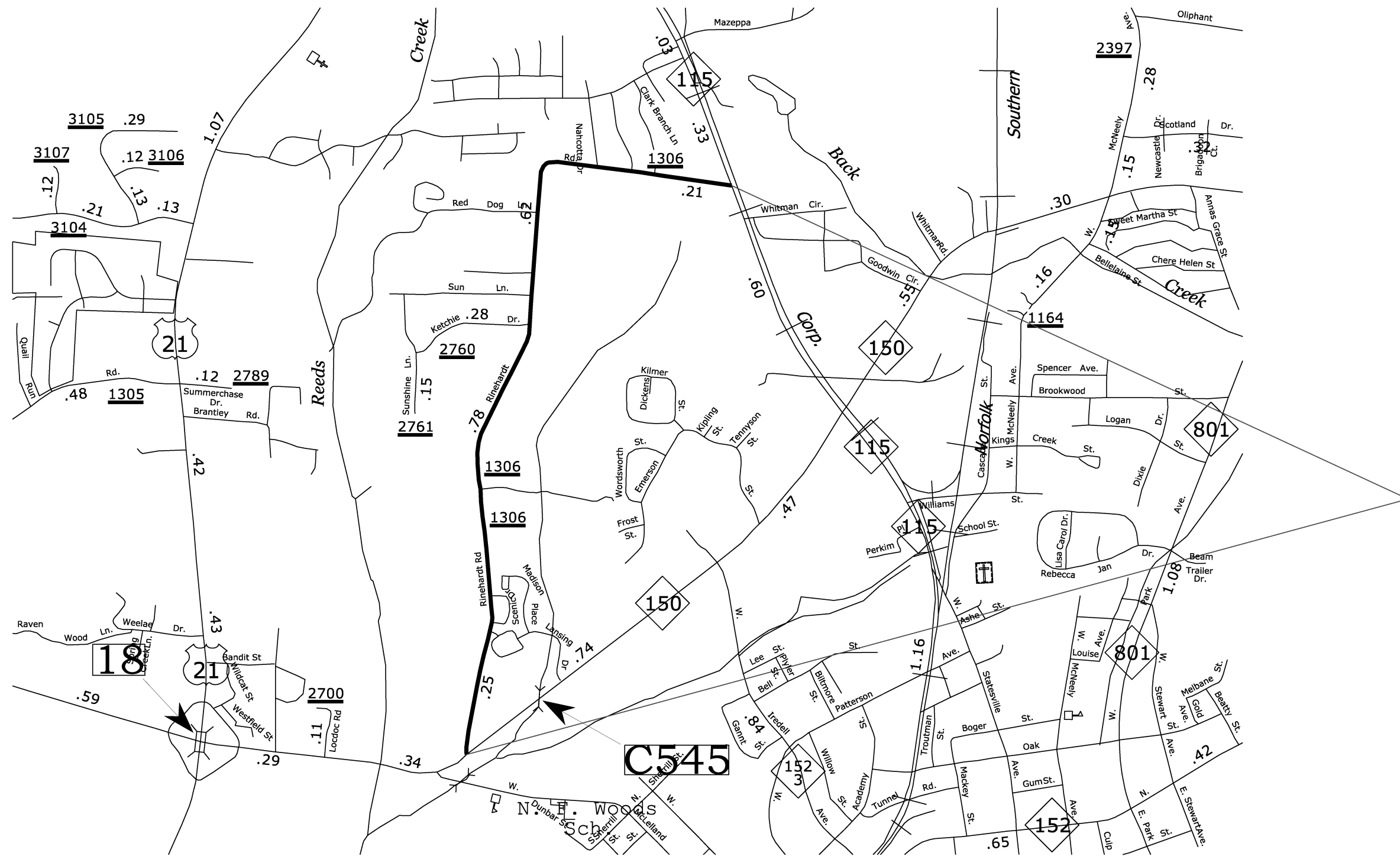
2015 - 2016  
 Resurfacing Maps  
 Irredell County

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NC	12CR.10491.18	10
	12CR.20491.20	



2015 - 2016  
Resurfacing Maps  
Iredell County

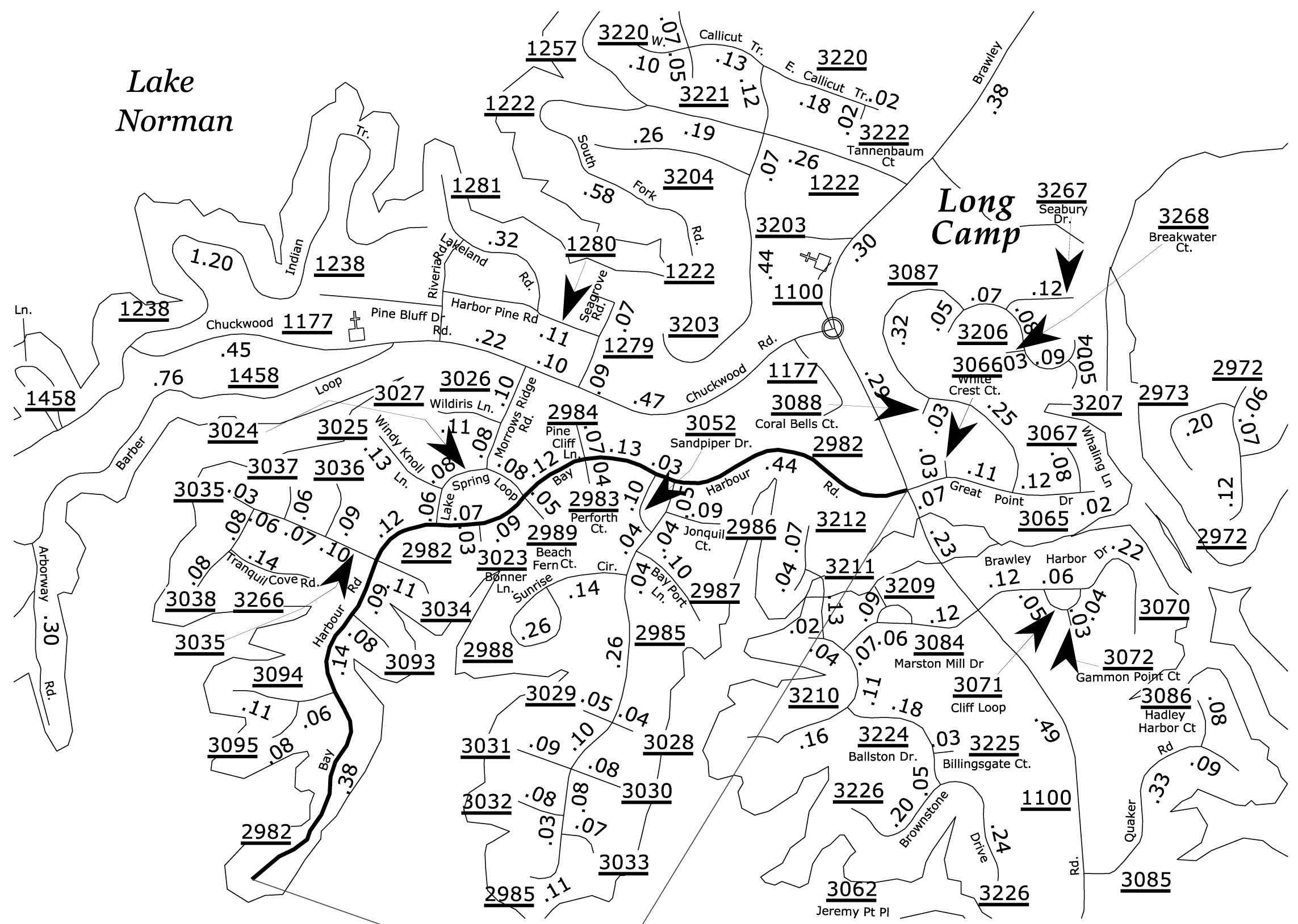
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NC	12CR.10491.18	11
	12CR.20491.20	



**C545**

2015 - 2016  
Resurfacing Maps  
Iredell County

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	12CR.20491.20	

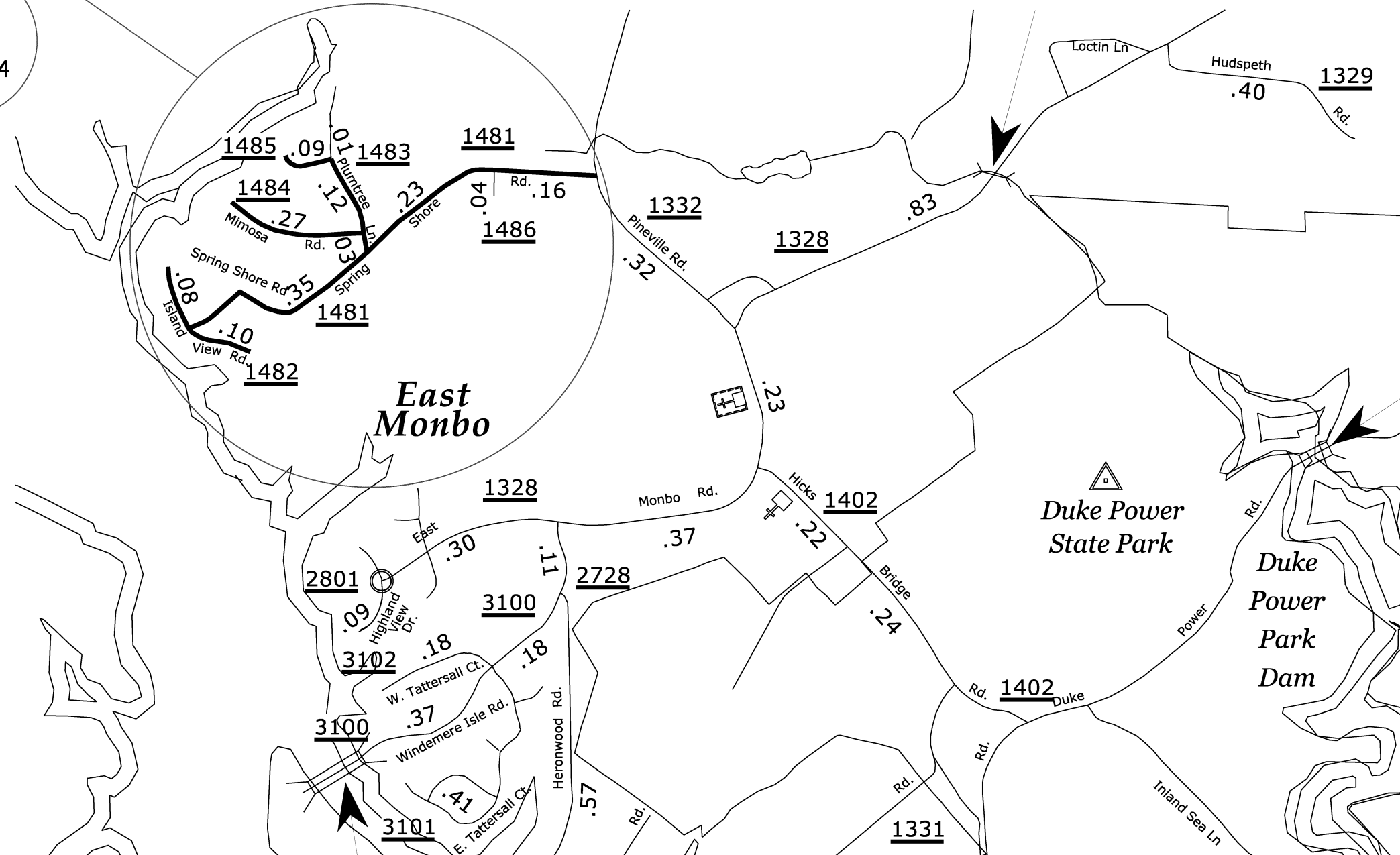


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2015 - 2016  
Resurfacing Maps  
Iredell County

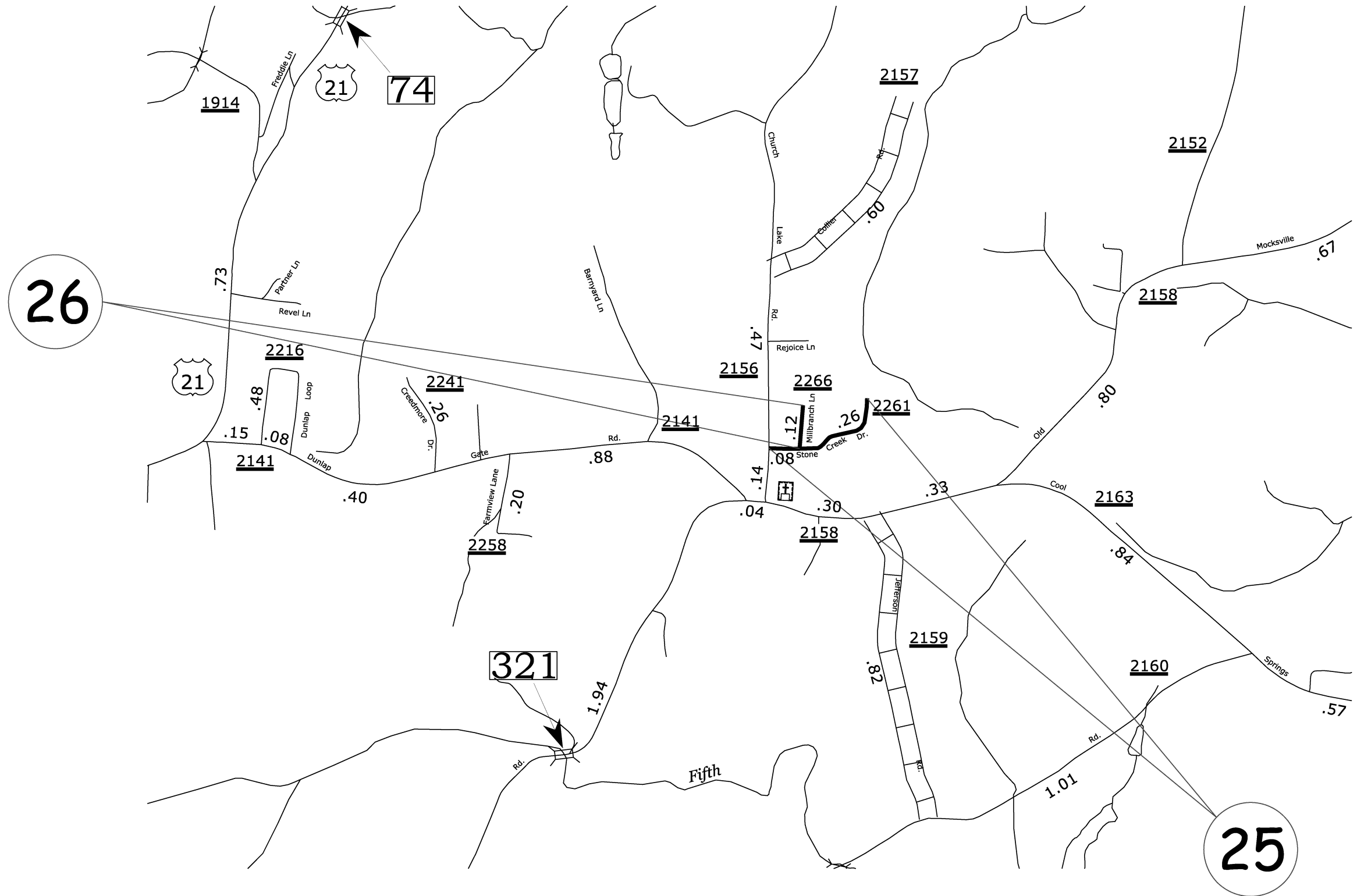
STATE	PROJECT WBS	SHEET NUMBER
NC	12CR.10491.18	13
	12CR.20491.20	

- 20  
SR 1481
- 21  
SR 1483
- 22  
SR 1485
- 23  
SR 1484
- 24  
SR 1482



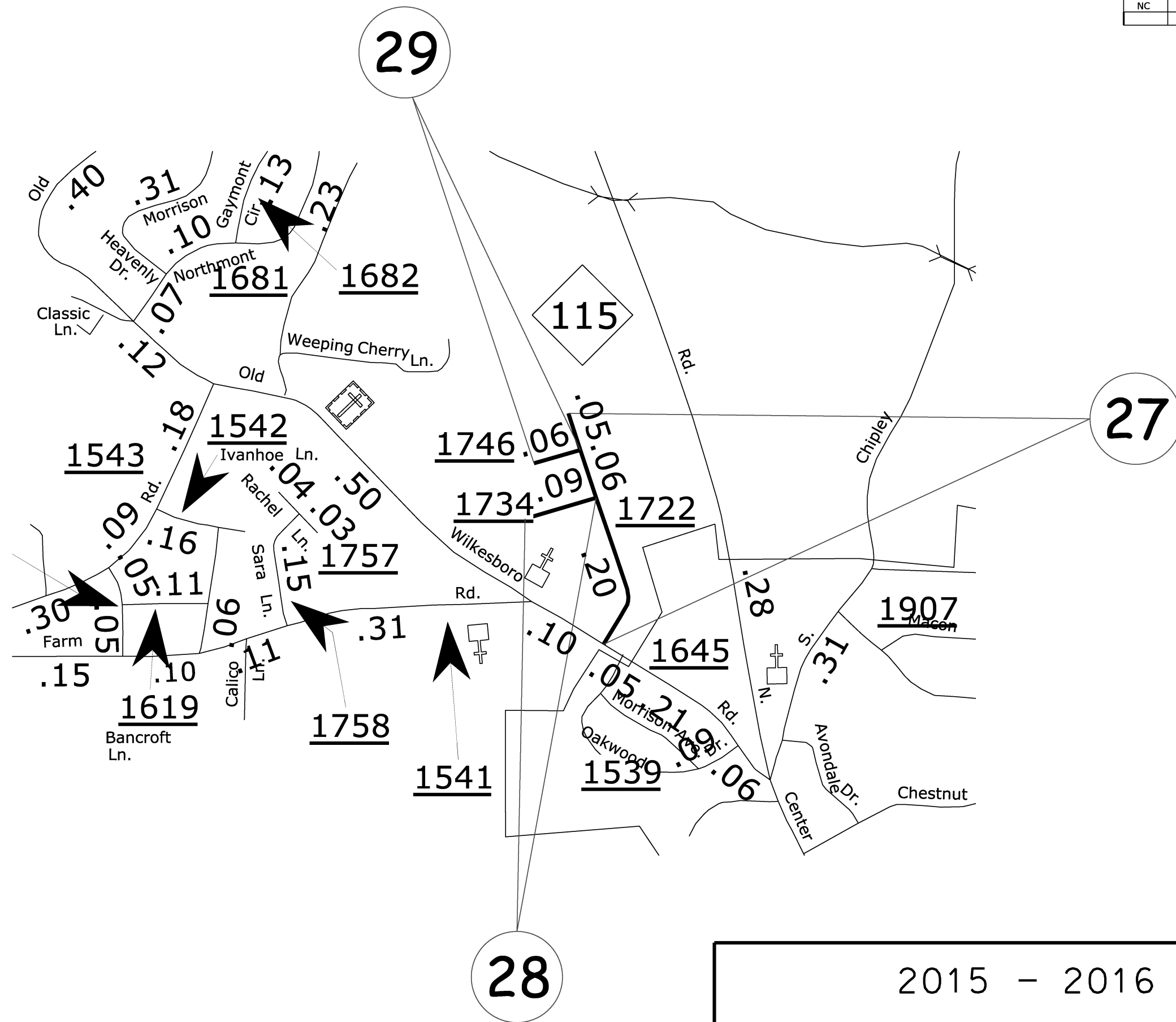
2015 - 2016  
Resurfacing Maps  
Iredell County

STATE	PROJECT WBS	SHEET NUMBER
NC	12CR.10491.18	14
	12CR.20491.20	



2015 - 2016  
 Resurfacing Maps  
 Iredell County

STATE	PROJECT WBS	SHEET NUMBER
NC	12CR.10491.18	15
	12CR.20491.20	



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27

28

2015 - 2016  
Resurfacing Maps  
Iredell County



STATE	PROJECT WBS	SHEET NUMBER
NC	12CR.10491.18	16
	12CR.20491.20	

- 30**

SR 2268

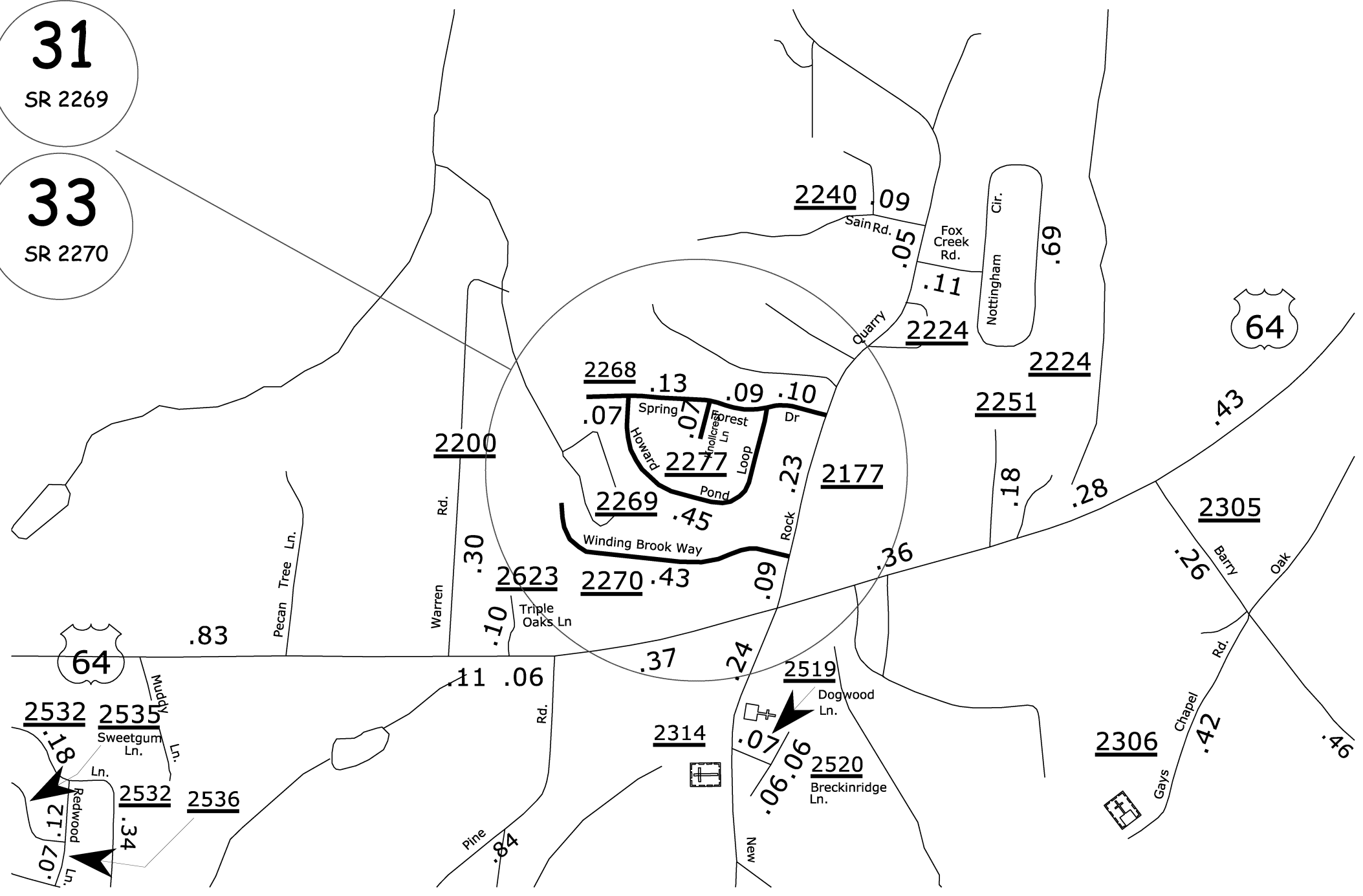
**31**

SR 2269
- 32**

SR 2277

**33**

SR 2270



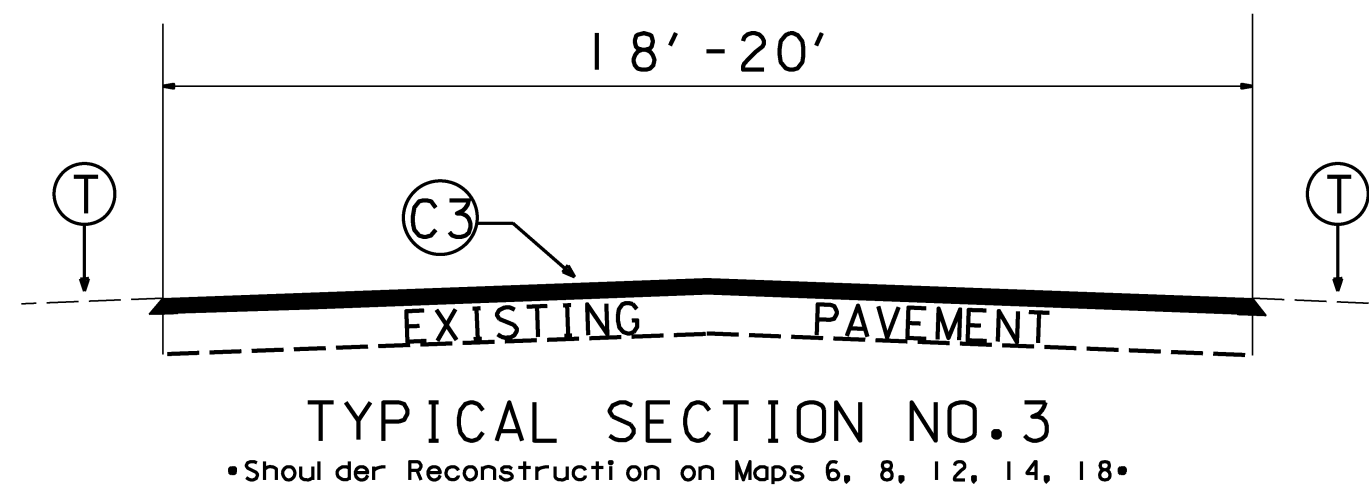
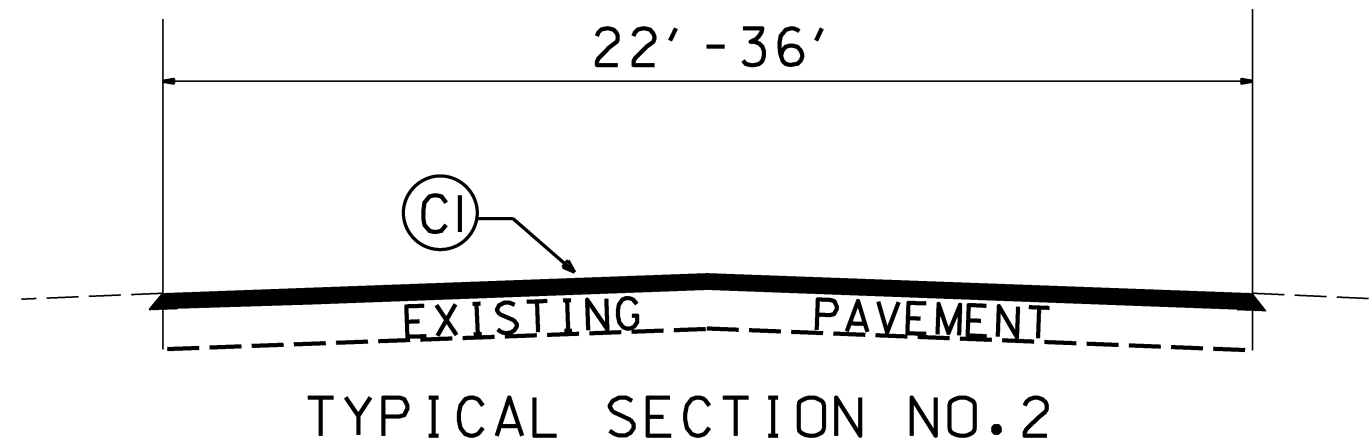
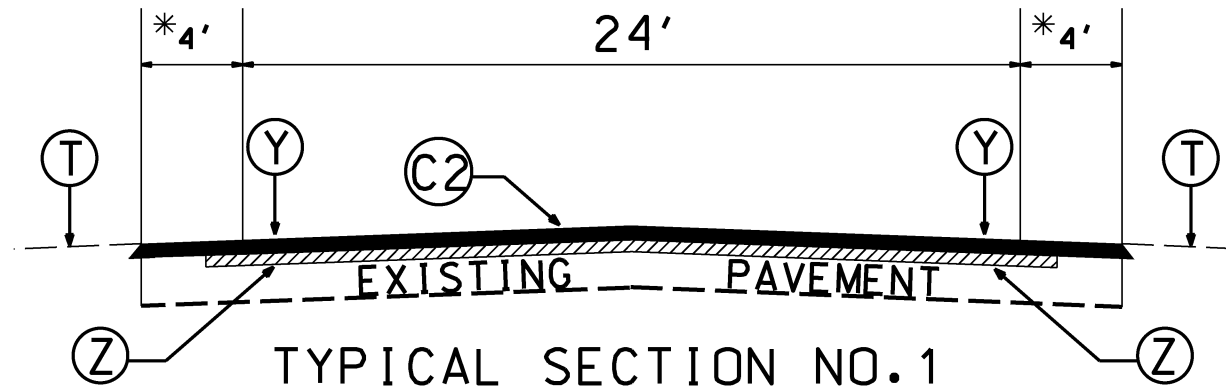
2015 - 2016  
 Resurfacing Maps  
 Iredell County

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY		17
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
12CR.10491.18		PRIMARY RESURFACING
12CR.20491.20		SECONDARY RESURFACING

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
Y	MILLED RUMBLE STRIPS
Z	MILL EXISTING ASPHALT PAVEMENT APPROX. 5/8" IN DEPTH

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

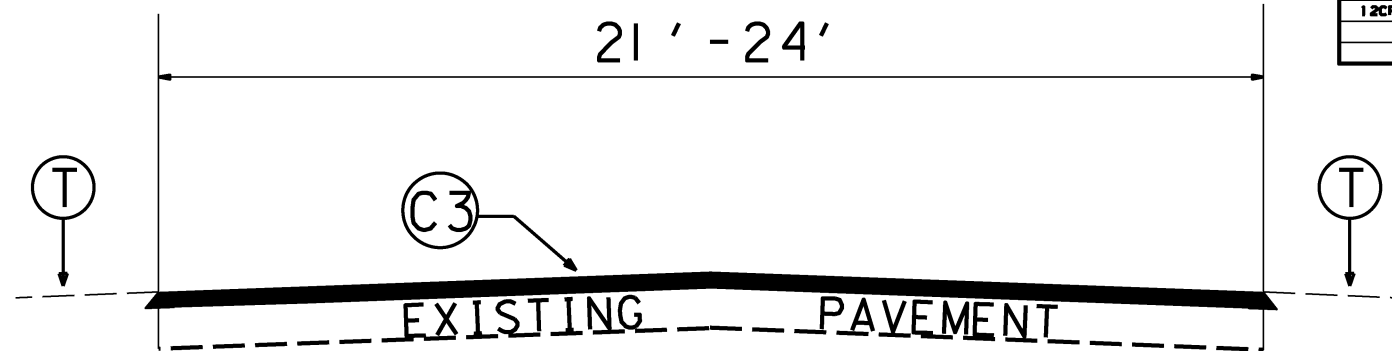
\* 10' WHERE GUARDRAIL IS PRESENT



2015 - 2016  
Resurfacing Program  
Typical Sections  
Iredell County

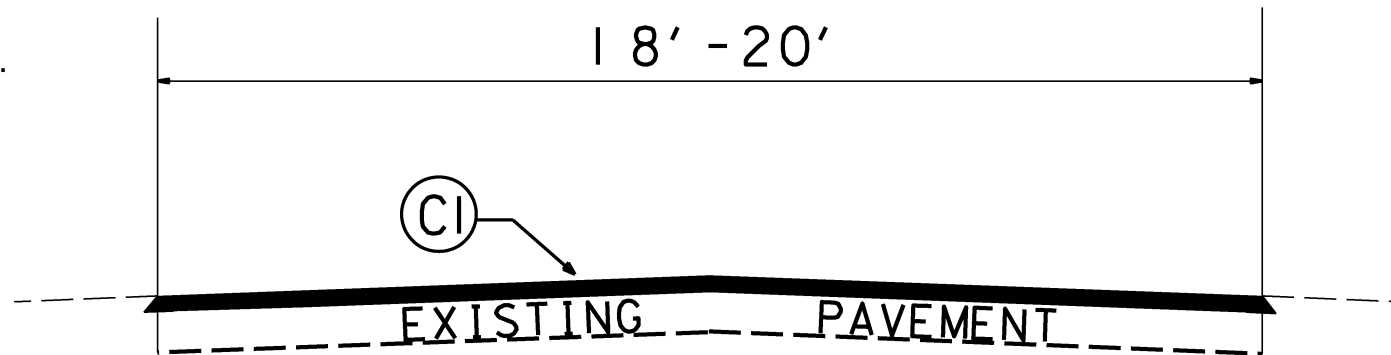
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY		18
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
12CR.18491.18		PRIMARY RESURFACING
12CR.28491.28		SECONDARY RESURFACING

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
Y	MILLED RUMBLE STRIPS
Z	MILL EXISTING ASPHALT PAVEMENT APPROX. 5/8" IN DEPTH

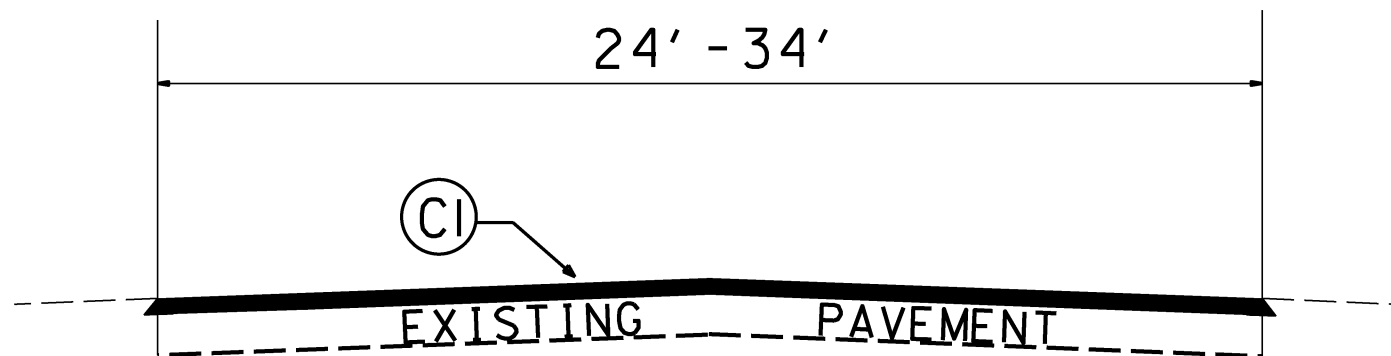


TYPICAL SECTION NO.4  
 •Shoulder Reconstruction on Maps 5, 11, 13•

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO.5

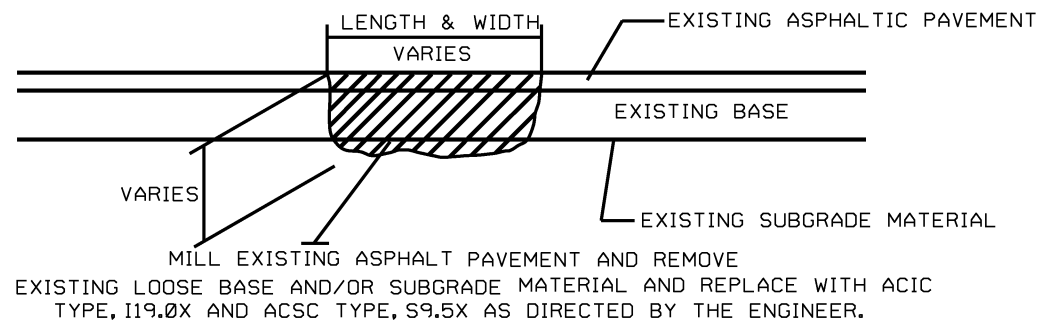


TYPICAL SECTION NO.6

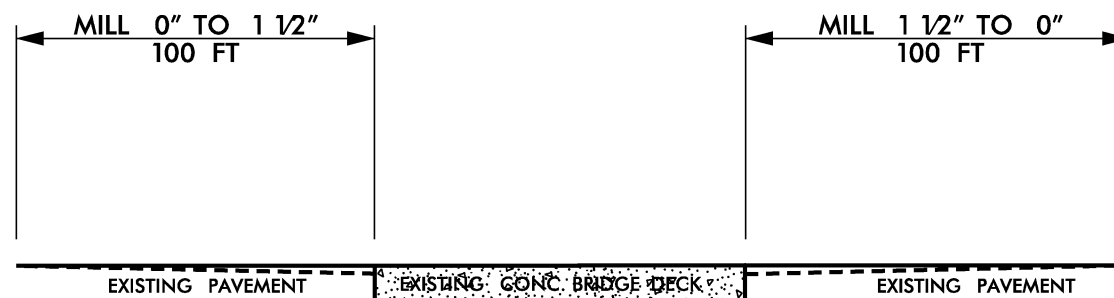
2015 - 2016  
 Resurfacing Program  
 Typical Sections  
 Iredell County

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY		19
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
12CR.18491.18		PRIMARY RESURFACING
12CR.28491.28		SECONDARY RESURFACING

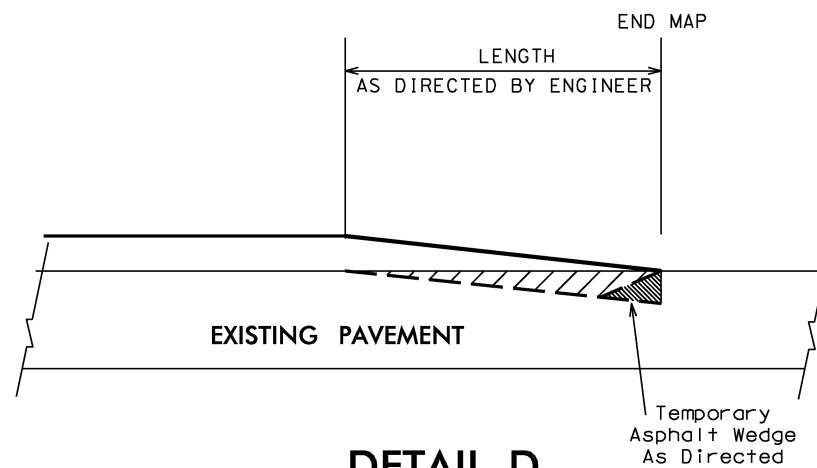
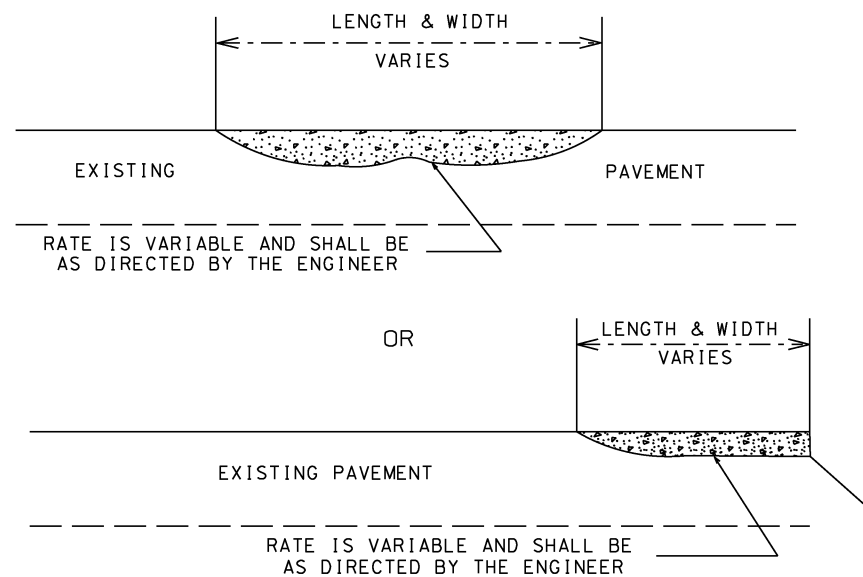
**DETAIL A**  
**PATCHING EXISTING PAVEMENT**



**DETAIL C**  
**MILLING BRIDGE APPROACHES**



**DETAIL B**  
**ASPHALT CONCRETE SURFACE COURSE**  
**TYPE S9.5B (LEVELING COURSE)**  
**TYPE SF9.5A (LEVELING COURSE)**



**DETAIL D**  
**TIE-IN (INCIDENTAL) MILLING DETAIL**

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
Y	MILLED RUMBLE STRIPS
Z	MILL EXISTING ASPHALT PAVEMENT APPROX. 5/8" IN DEPTH

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

2015 - 2016  
Resurfacing Program  
Typical Sections  
Iredell County

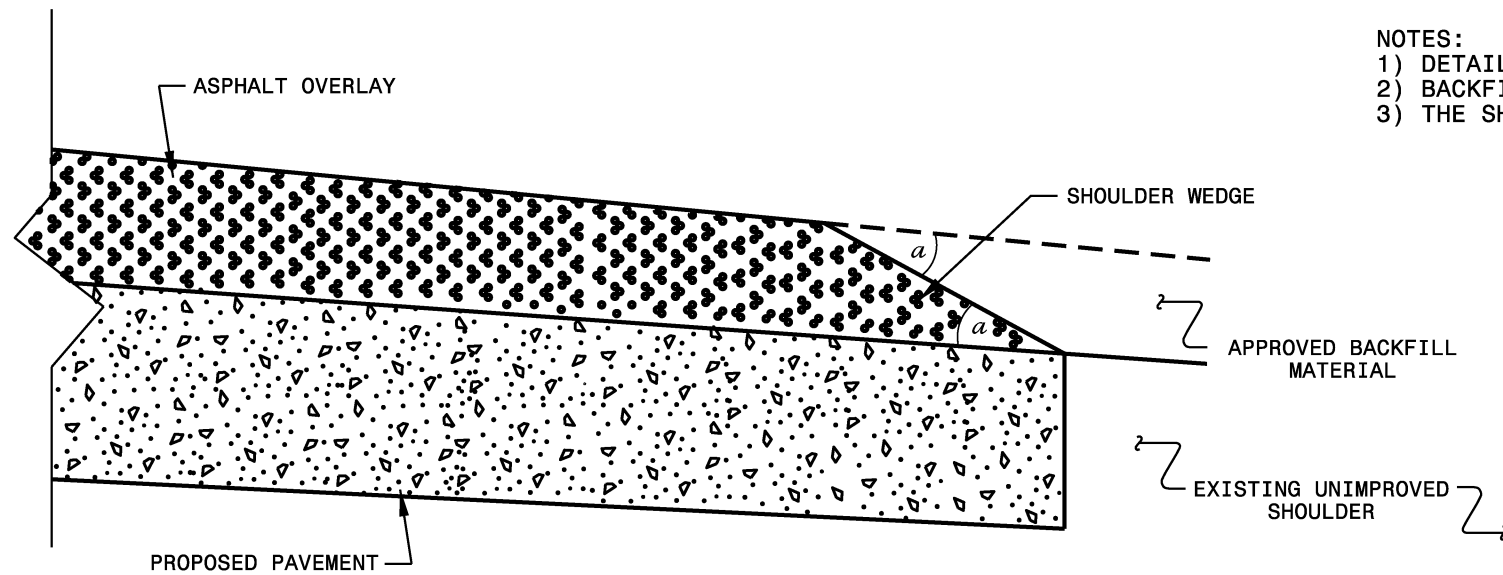
PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10491.18 Primary	20	
12CR.20491.20 Secondary		

### SUMMARY OF QUANTITIES

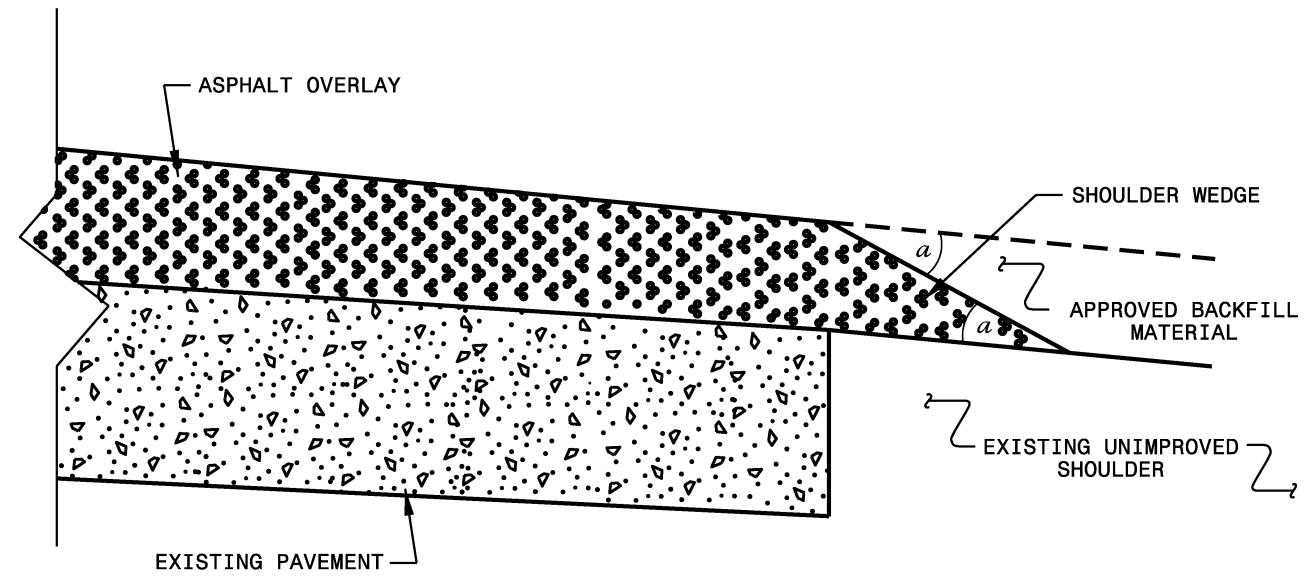
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	AGGREGATE SHOULDER BORROW TON	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	5/8" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	LEVELING COURSE, SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	MILLED RUMBLE STRIPS (ASPHALT CEMENT CONCRETE) LF	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA
12CR.10491.18 Primary	Iredell	1	US 64	FROM PVMT CHANGE AT NC 90 TO ALEXANDER COUNTY LINE	1	2		NO	NO	6.9	32	560		14.00	122,000		18,650				1,119	200	73,920		
12CR.10491.18 Primary	Iredell	2	NC 90	FROM US 64 TO ALEXANDER COUNTY LINE	2	2		NO	NO	7.36	23		450						6,000	100	408	150			2
<b>TOTAL FOR PROJ NO. 12CR.10491.18 Primary</b>										<b>14.26</b>		<b>560</b>	<b>450</b>	<b>14.00</b>	<b>122,000</b>		<b>18,650</b>		<b>6,000</b>	<b>100</b>	<b>1,527</b>	<b>350</b>	<b>73,920</b>		<b>2</b>
12CR.20491.20 Secondary	Iredell	3	ALCOVE DR. (SR 1206)	FROM SR WILLIAMSON RD. (SR 1109) TO END OF PVMT.	3	2		NO	NO	0.9	20		30				1,125	50			71	200			
12CR.20491.20 Secondary	Iredell	4	COBBLER COVE (SR 2917)	FROM ALCOVE DR. (SR 1206) TO DEAD END	3	2		NO	NO	0.037	18						100	10			7	75			
12CR.20491.20 Secondary	Iredell	5	S. CHIPLEY FORD RD. (SR 1907)	FROM NC 115 TO NIXON RD.(SR 1924)	4	2		NO	NO	2.708	24	433	100	5.50		550	3,500	75			215	175		3	1
12CR.20491.20 Secondary	Iredell	6	NIXON RD. (SR 1924)	FROM S. CHIPLEY FORD RD. (SR 1907) TO SHUMAKER DR. (SR 1922)	3	2		NO	NO	1.379	19	221	50	2.80			1,500	50			93	125			
12CR.20491.20 Secondary	Iredell	7	RED HAWK LANE (SR 2036)	FROM JENNINGS RD. (SR 1892) TO END OF MAINT.	3	2		NO	NO	0.568	20		40				625	50			41	125			
12CR.20491.20 Secondary	Iredell	8	RASH RD. (SR 1888)	FROM TOMLIN MILL RD. (SR 1890) TO TATUM RD. (SR 1887)	3	2		NO	NO	2.022	20	324	75	4.10			2,200	100			139	125			
12CR.20491.20 Secondary	Iredell	9	CHANTILLY LN. (SR 2512)	FROM BELL FARM RD. (SR 2316) TO DEAD END	3	2		NO	NO	0.31	18		20				325	20			21	250			1
12CR.20491.20 Secondary	Iredell	10	NABORS RD. (SR 2357)	FROM PVMT CHANGE AT US 70 TO DEAD END	3	2		NO	NO	0.871	20		55				915	50			58	215			
12CR.20491.20 Secondary	Iredell	11	CORNFLOWER RD. (SR 2360)	FROM BETHESDA RD. (SR 2359) TO TRIPLETT RD. (SR 2362)	4	2		NO	NO	1.709	21	273	35	3.50			2,000	100			127	65			
12CR.20491.20 Secondary	Iredell	12	TRIPLETT RD. (SR 2362)	FROM US 70 TO OSWALT AMITY RD. (SR 1001)	3	2		NO	NO	3.9	20	624	225	8.30		450	4,000	200			253	550			
12CR.20491.20 Secondary	Iredell	13	OLD MURDOCK RD. (SR 2551)	FROM NC 115/US 21 TO MURDOCK RD. (SR 2350)	4	2		NO	NO	0.621	22	99	25	1.30			725	35			46	50			1
12CR.20491.20 Secondary	Iredell	14	STILLWATER RD. (SR 1447)	FROM WILLOW POINT RD. (SR 2791) TO MORRISON FARM RD. (SR 1321)	3	2		NO	NO	2.276	20	182	100	4.75			2,300	115			145	125			
12CR.20491.20 Secondary	Iredell	15	NORTHINGTON WOODS DR. (SR 2803)	FROM FERN HILL RD. (SR 1300) TO DEAD END	3	2		NO	NO	0.368	20						425	25			27	250			
12CR.20491.20 Secondary	Iredell	16	WATERBURY DR. (SR 2804)	FROM NORTHINGTON WOODS DR. (SR 2803) TO DEAD END	3	2		NO	NO	0.28	20						345	25			22	275			
12CR.20491.20 Secondary	Iredell	17	WHISPERING COVE CT. (SR 2805)	FROM WATERBURY DR. (SR 2804) TO DEAD END	3	2		NO	NO	0.181	20						245	20			16	100			
12CR.20491.20 Secondary	Iredell	18	RINEHARDT RD. (SR 1306)	FROM NC 150 TO NC 115	3	2		NO	NO	1.831	19	293	150	3.70					1,850	75	128	150		4	
12CR.20491.20 Secondary	Iredell	19	BAY HARBOUR RD. (SR 2982)	FROM BRAWLEY SCHOOL RD. (SR 1100) TO DEAD END	6	2		NO	NO	1.574	24								1,775	75	123	1,300			
12CR.20491.20 Secondary	Iredell	20	SPRING SHORE RD. (SR 1481)	FROM ISLAND VIEW RD. (SR 1482) TO PINEVILLE RD. (SR 1332)	5	2		NO	NO	0.724	18		75						480	25	34	225			2
12CR.20491.20 Secondary	Iredell	21	PLUMTREE LN. (SR 1483)	FROM SPRING SHORE RD. (SR 1481) TO DEAD END	5	2		NO	NO	0.159	18		5						150	10	11	25			
12CR.20491.20 Secondary	Iredell	22	HICKORY POINTE CT. (SR 1485)	FROM PLUMTREE LN. (SR 1483) TO DEAD END	5	2		NO	NO	0.079	18		15						110	10	8	75			
12CR.20491.20 Secondary	Iredell	23	MIMOSA RD. (SR 1484)	FROM PLUMTREE LN. (SR 1483) TO DEAD END	5	2		NO	NO	0.275	19		25						225	15	16	150			1
12CR.20491.20 Secondary	Iredell	24	ISLAND VIEW RD. (SR 1482)	FROM CUL-DE-SAC TO CUL-DE-SAC	5	2		NO	NO	0.179	18		5						175	10	12	75			4
12CR.20491.20 Secondary	Iredell	25	STONE CREEK DR. (SR 2261)	FROM CHURCH LAKE RD. (SR 2156) TO DEAD END	5	2		NO	NO	0.336	18.5								265	15	19	125			1
12CR.20491.20 Secondary	Iredell	26	MILLBRANCH LN. (SR 2266)	FROM STONE CREEK DR. (SR 2261) TO DEAD END	5	2		NO	NO	0.116	18.5								125	10	9	30			
12CR.20491.20 Secondary	Iredell	27	CANDLESTICK DR. (SR 1722)	FROM OLD WILKESBORO RD. (SR 1645) TO DEAD END	5	2		NO	NO	0.3	18		5						230	15	16	100			
12CR.20491.20 Secondary	Iredell	28	CARTWAY LN. (SR 1734)	FROM CANDLESTICK DR. (SR 1722) TO DEAD END	5	2		NO	NO	0.093	18		5						115	10	8	25			1
12CR.20491.20 Secondary	Iredell	29	CHALICE CT. (SR 1746)	FROM CANDLESTICK DR. (SR 1722) TO DEAD END	5	2		NO	NO	0.055	18		5						85	10	6	25			
12CR.20491.20 Secondary	Iredell	30	SPRING FOREST DR. (SR 2268)	FROM SAIN RD. (SR 2177) TO DEAD END	5	2		NO	NO	0.4	20								300	15	21	25			
12CR.20491.20 Secondary	Iredell	31	HOWARD POND LOOP (SR 2269)	FROM SPRING FOREST DR. (SR 2268) TO SPRING FOREST DR. (SR 2268)	5	2		NO	NO	0.44	20								300	15	21	25			
12CR.20491.20 Secondary	Iredell	32	KNOLLCREST LN. (SR 2277)	FROM SPRING FOREST DR. (2268) TO DEAD END	5	2		NO	NO	0.062	20								115	10	8	20			
12CR.20491.20 Secondary	Iredell	33	WINDING BROOK WAY (SR 2270)	FROM SAIN RD. (SR 2177) TO DEAD END	5	2		NO	NO	0.44	20								325	15	23	25			
<b>TOTAL FOR PROJ NO. 12CR.20491.20 Secondary</b>										<b>25.193</b>		<b>2,449</b>	<b>1,045</b>	<b>33.95</b>		<b>1,000</b>	<b>20,330</b>	<b>925</b>	<b>6,625</b>	<b>335</b>	<b>1,744</b>	<b>5,105</b>		<b>7</b>	<b>12</b>
<b>GRAND TOTAL</b>										<b>39.453</b>		<b>3,009</b>	<b>1,495</b>	<b>47.95</b>	<b>122,000</b>	<b>1,000</b>	<b>38,980</b>	<b>925</b>	<b>12,625</b>	<b>435</b>	<b>3,271</b>	<b>5,455</b>	<b>73,920</b>	<b>7</b>	<b>14</b>



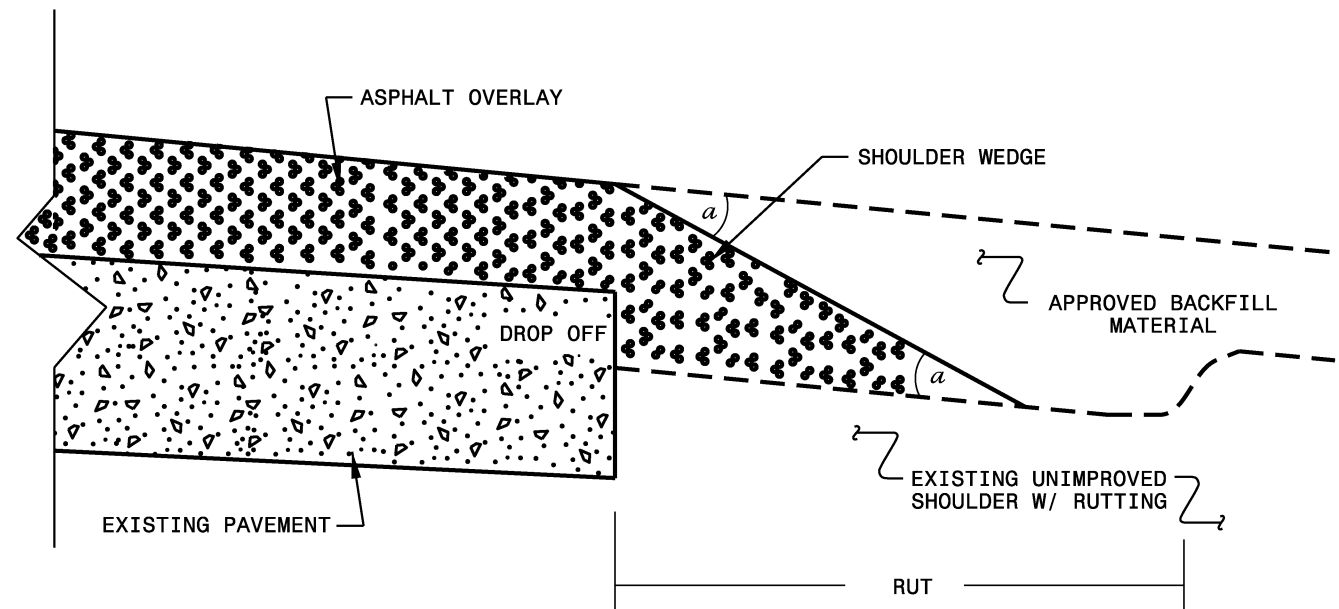
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ NO Widening)



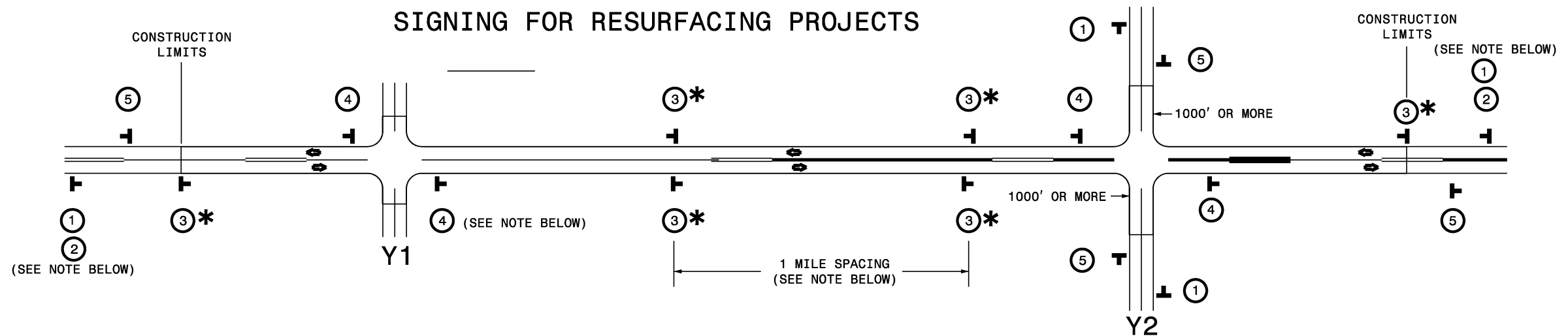
**SHOULDER WEDGE DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 10/18/12		
CHECKED BY:	DATE:		
FILE SPEC.: s:\usr\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	<p>1</p> <p>2</p> <p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> <li>LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>SUBDIVISION ROADS</li> <li>DEAD END ROADS</li> </ol> <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> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	<p>3*</p> <p>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.</p>	
	<p>4</p> <p>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.</p>	
	<p>5</p> <p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

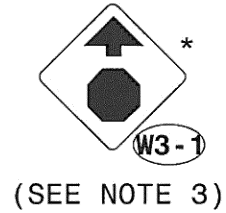
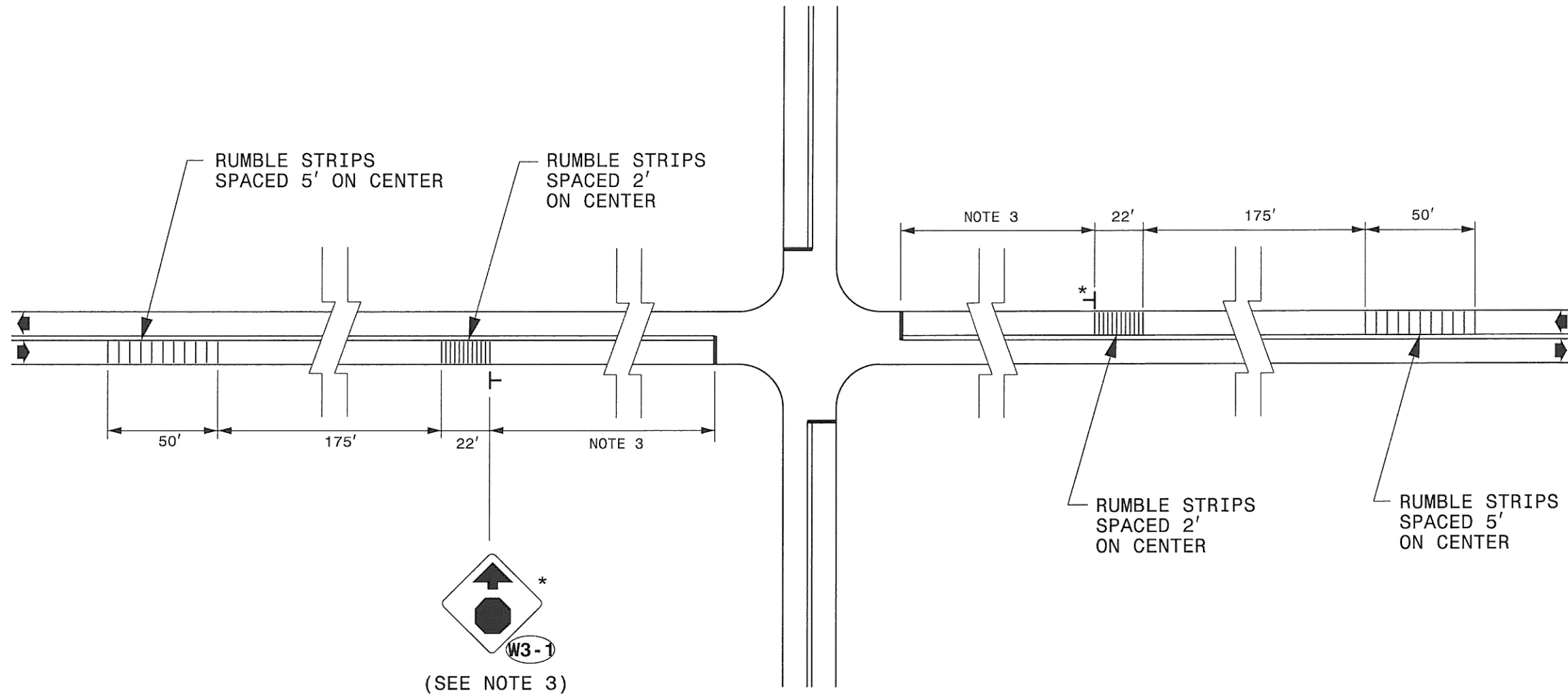
#### \* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS: STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS





GENERAL NOTES:

1. ALL RUMBLE STRIPS SHALL BE CENTERED IN THE LANE AND SHALL BE 2 FEET LESS THAN THE WIDTH OF THE TRAVEL LANE
2. RUMBLE STRIPS SHALL BE PLACED USING 4" x 240 MIL WHITE THERMOPLASTIC PAVEMENT MARKING MATERIAL.
3. PLACEMENT OF FIRST SET OF RUMBLE STRIPS CLOSEST TO THE STOP BAR SHALL BE LOCATED IN CONJUNCTION WITH EXISTING STOP-AHEAD (W3-1) SIGN. FOR SECOND SET, FOLLOW DISTANCE AS SHOWN ABOVE.

ENGLISH STANDARD DRAWING FOR  
**TWO-LANE, TWO-WAY THERMOPLASTIC  
 RUMBLE STRIPS**

ENGLISH STANDARD DRAWING FOR  
**TWO-LANE, TWO-WAY THERMOPLASTIC  
 RUMBLE STRIPS**