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SHEET 2
(maps 1-7)

SHEET 3
(maps 10-17)

SHEET 4
(maps 18-21)

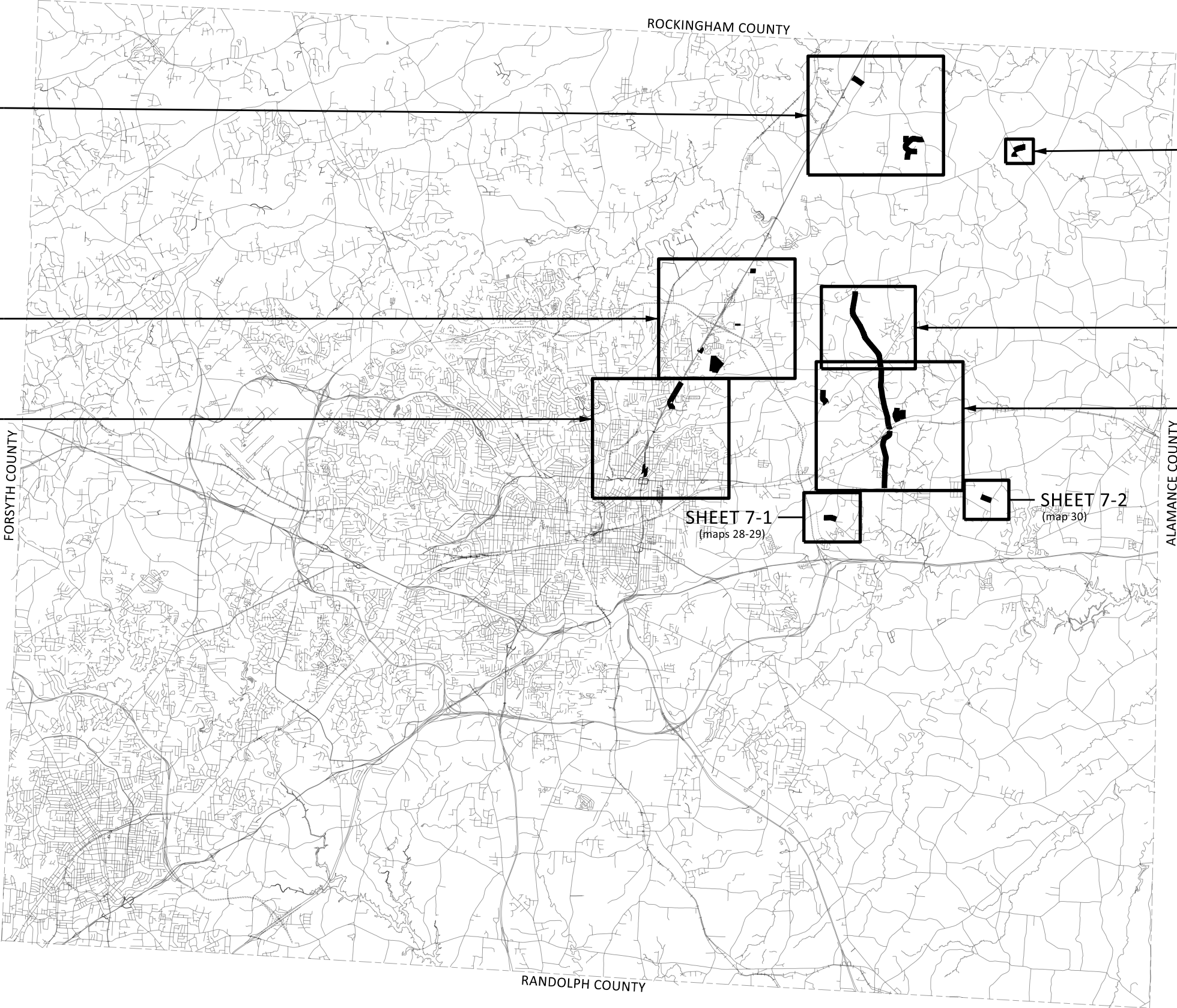
SHEET 2-1
(maps 8-9)

SHEET 5
(map 23)

SHEET 6
(maps 22, 24-27)

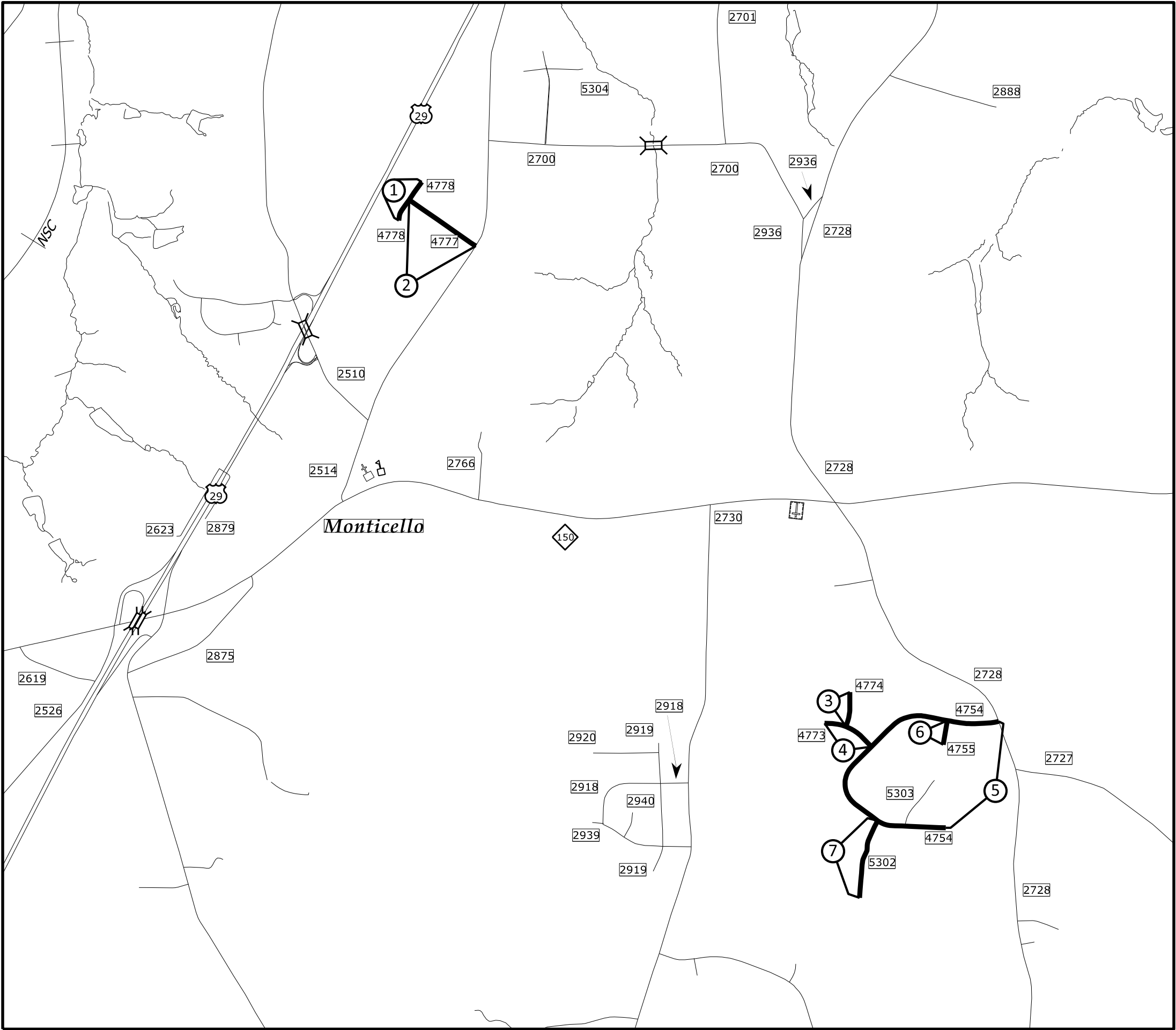
SHEET 7-1
(maps 28-29)

SHEET 7-2
(map 30)



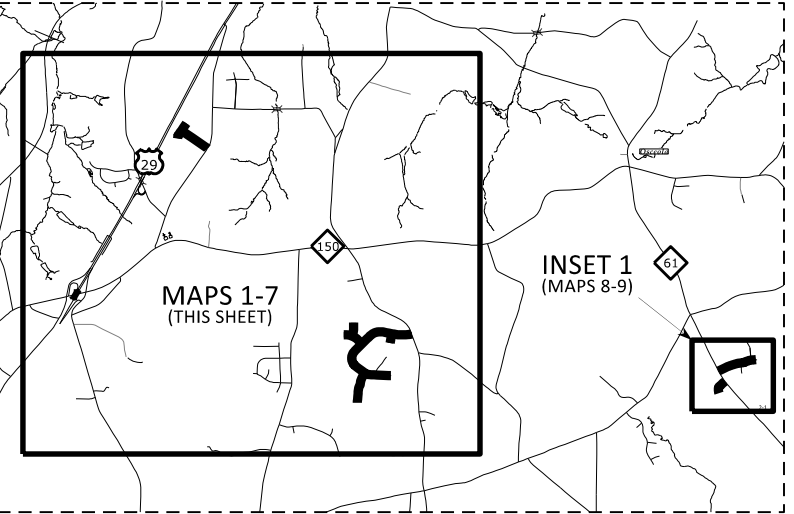
GUILFORD COUNTY
NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2027CPT.07.16.20411	2

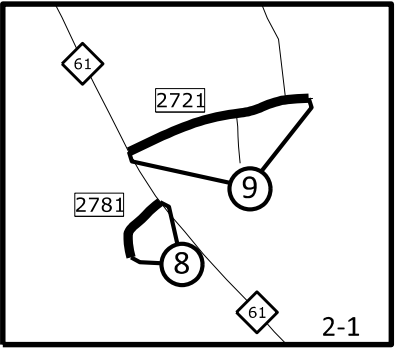


- Map 1 SR 4778 - WAGMONT DRIVE
- Map 2 SR 4777 - CLAIRE-MONT DRIVE
- Map 3 SR 4774 - SUMMERSUN DRIVE
- Map 4 SR 4773 - SUNBERRY DRIVE
- Map 5 SR 4754 - FRIENDSHIP GLEN DRIVE
- Map 6 SR 4755 - FRIENDSHIP GLEN COURT
- Map 7 SR 5302 - SUN HARBOR DRIVE

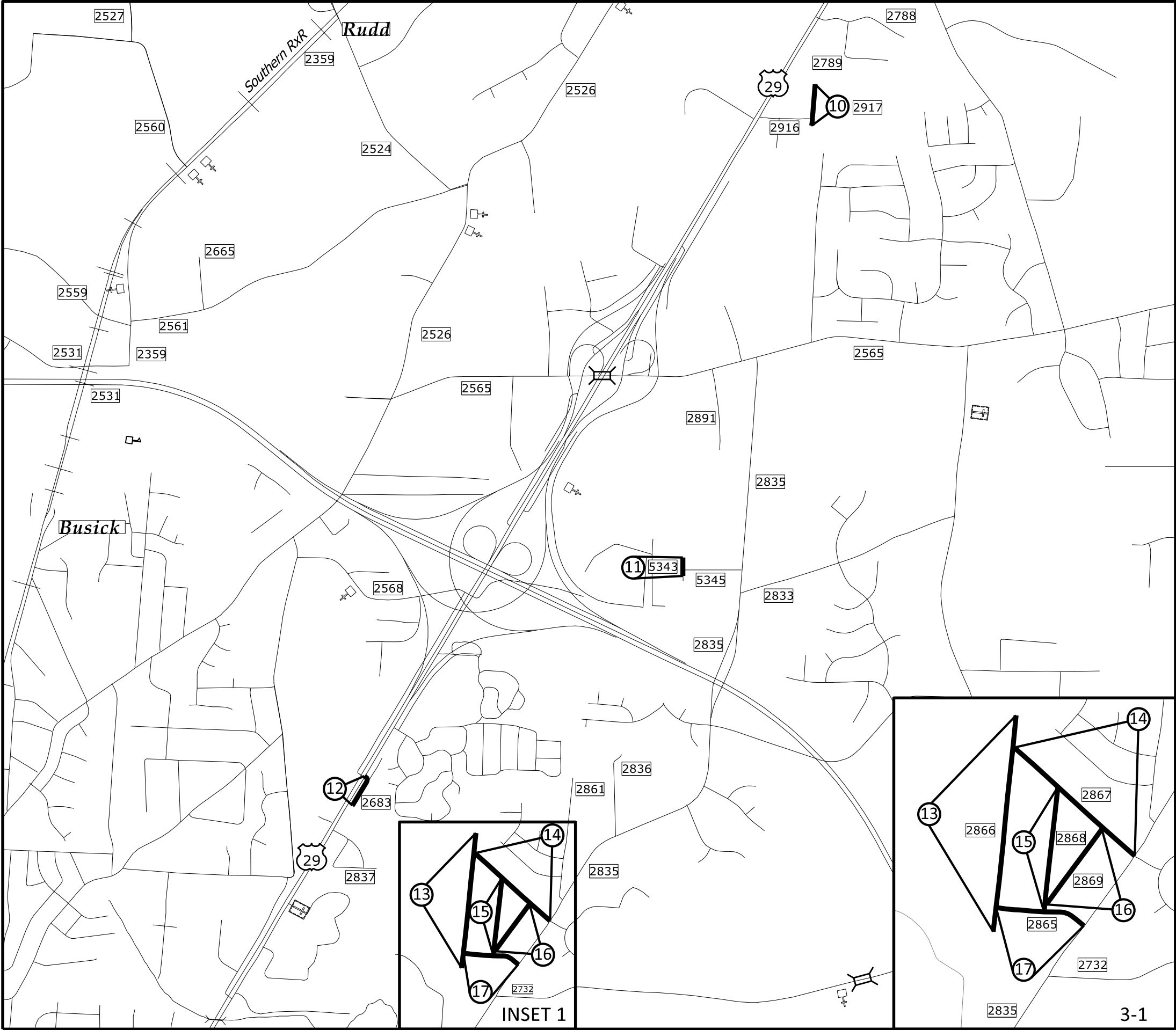
- INSET 2-1**
- Map 8 SR 2781 - FISKE ROAD
 - Map 9 SR 2721 - ELMONT ROAD



VICINITY MAP: MAPS 8-9



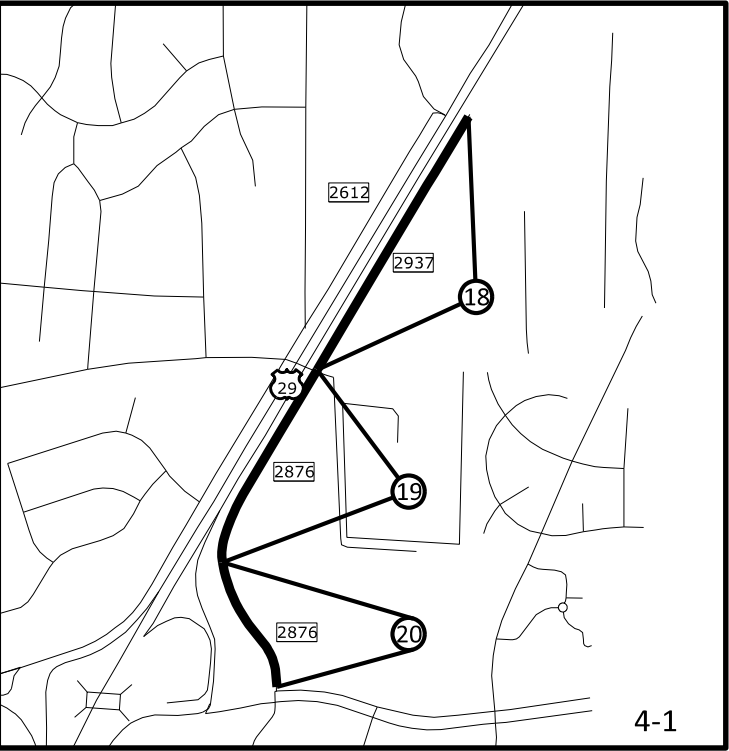
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2027CPT.07.16.20411	3



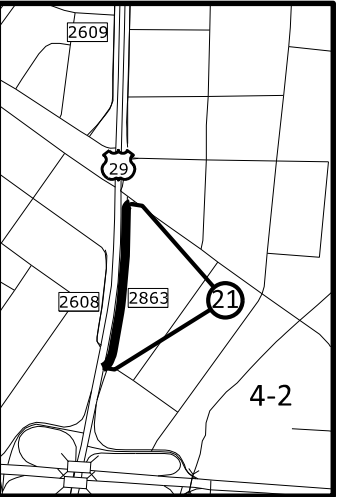
- Map 10 SR 2917 - SHENANDOAH ROAD
- Map 11 SR 5343 - WHITEROCK ROAD
- Map 12 SR 2683 - SERVICE ROAD @ US 29
- Map 13 SR 2866 - MILLER DRIVE
- Map 14 SR 2867 - TAYLORCREST ROAD
- Map 15 SR 2868 - PARNELL DRIVE
- Map 16 SR 2869 - TRIANGLE DRIVE
- Map 17 SR 2865 - HOLLYWOOD DRIVE



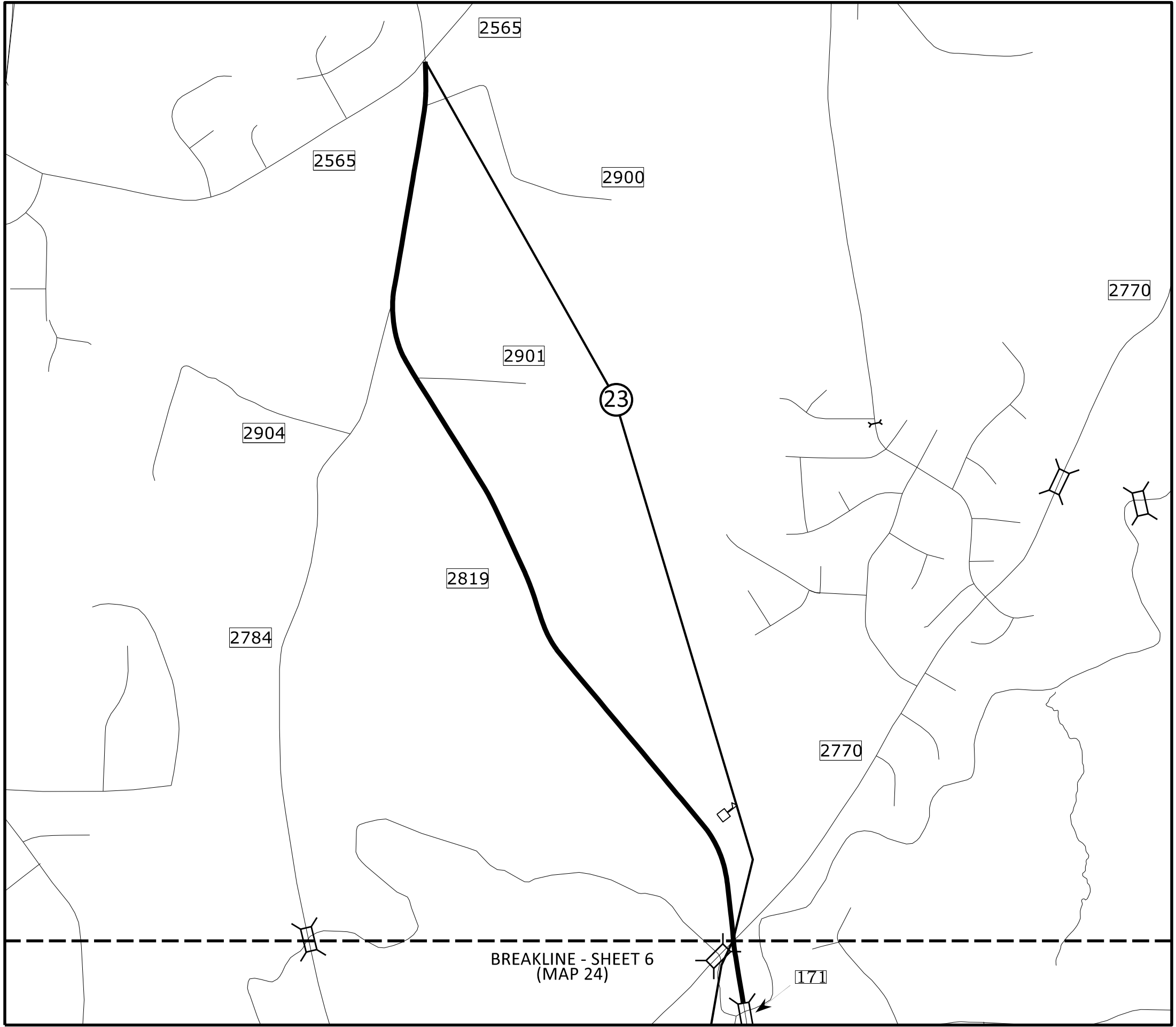
PROJECT REFERENCE NO.	SHEET NO.
2027CPT.07.16.20411	4



Map 18 SR 2937 - N OHENRY BLVD (SANDS)
Map 19 SR 2876 - SANDS DRIVE
Map 20 SR 2876 - SANDS DRIVE
Map 21 SR 2863 - N OHENRY BLVD (GATEWOOD)



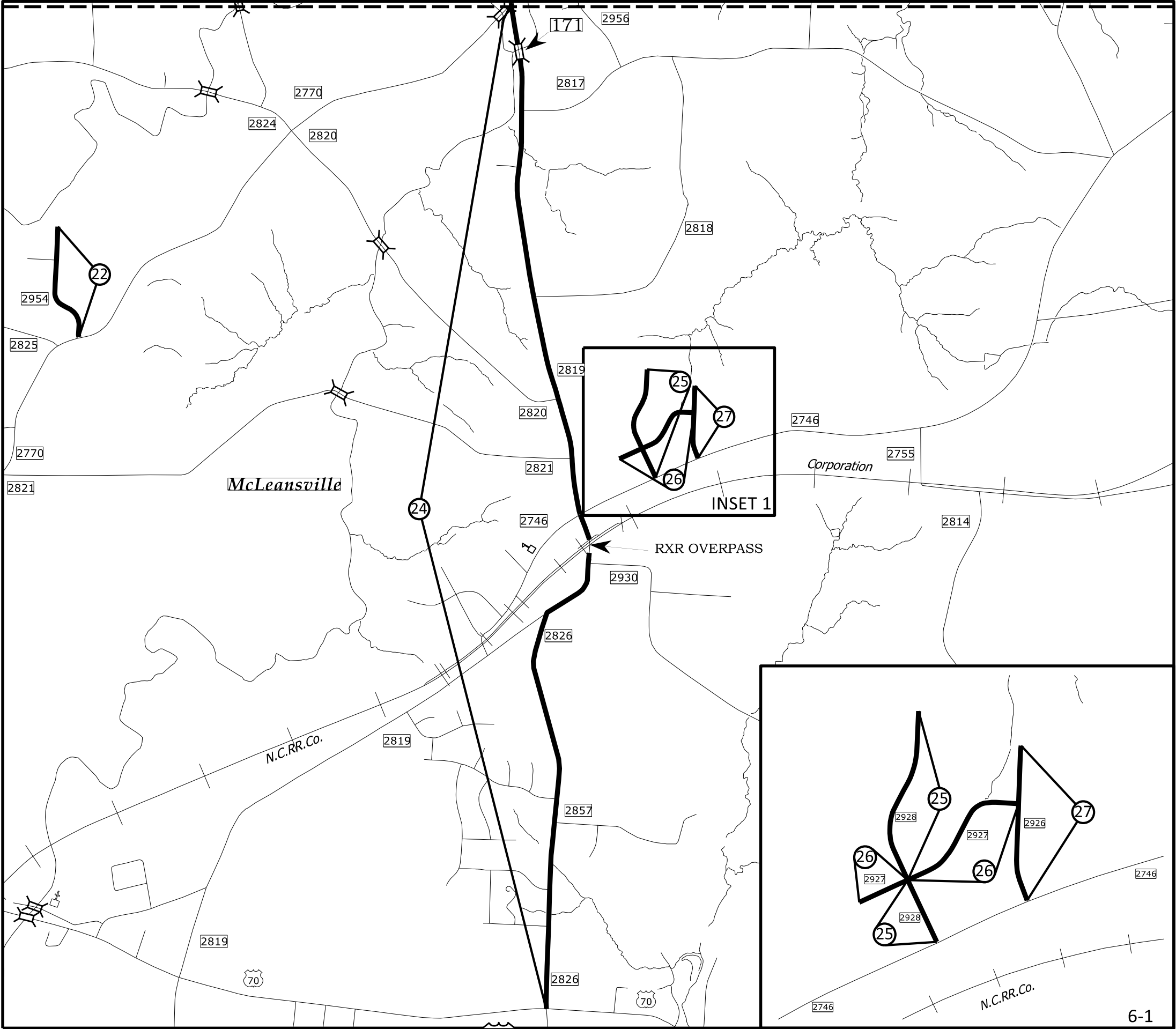
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2027CPT.07.16.20411	5



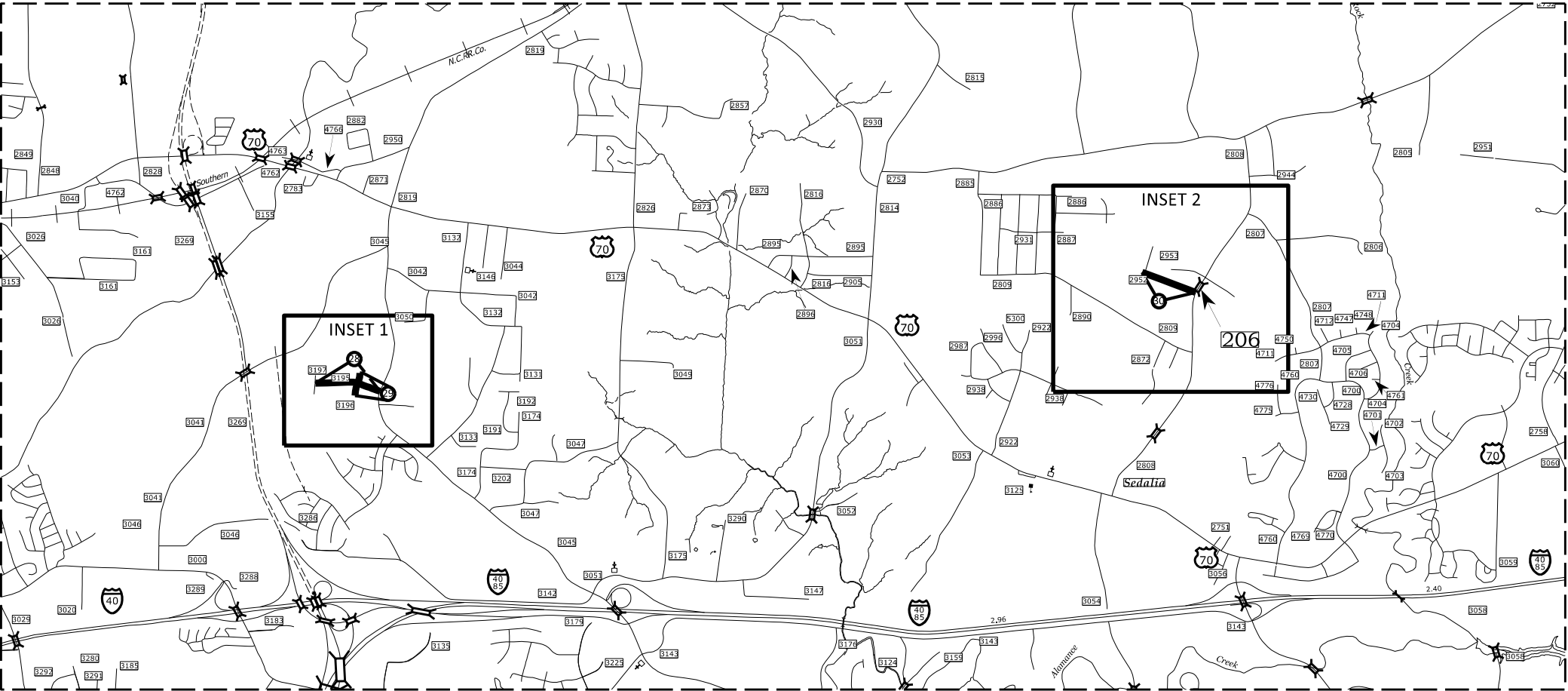
Map 23 SR 2819 - MCLEANSVILLE ROAD
Map 24 SR 2819 - MCLEANSVILLE ROAD
(DO NOT PAVE BRIDGE 171)

GUILFORD COUNTY
NORTH CAROLINA

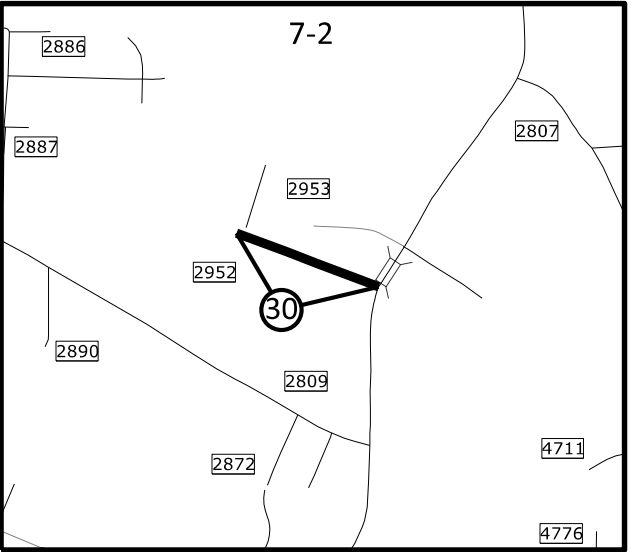
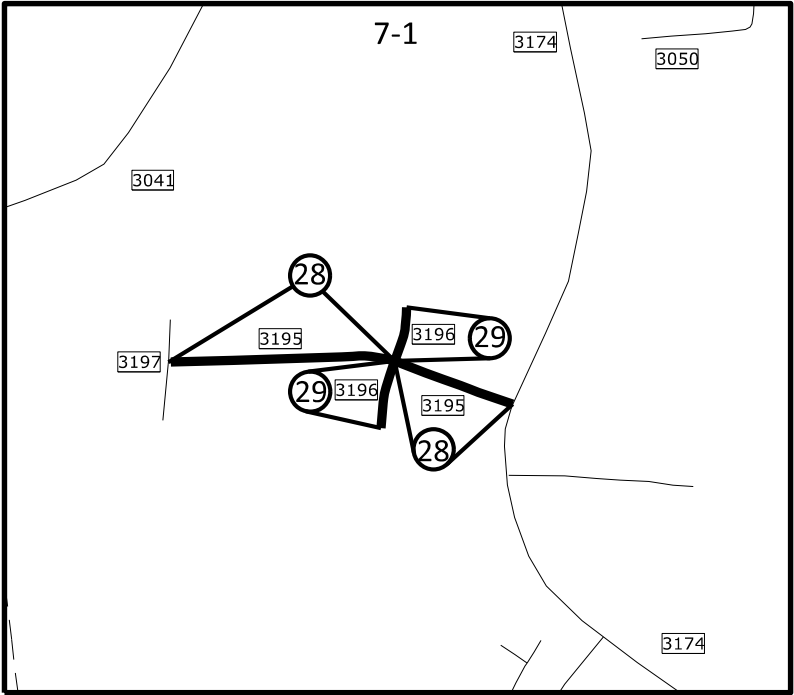
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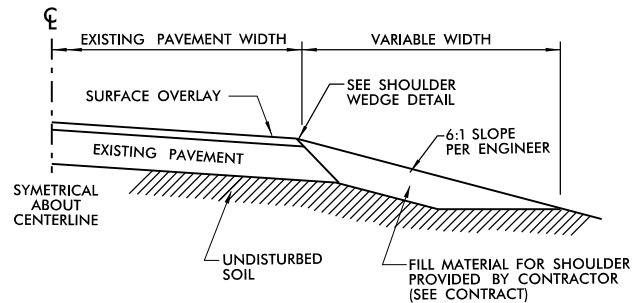
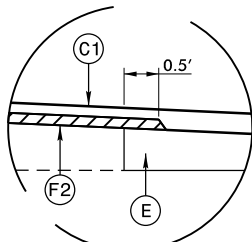
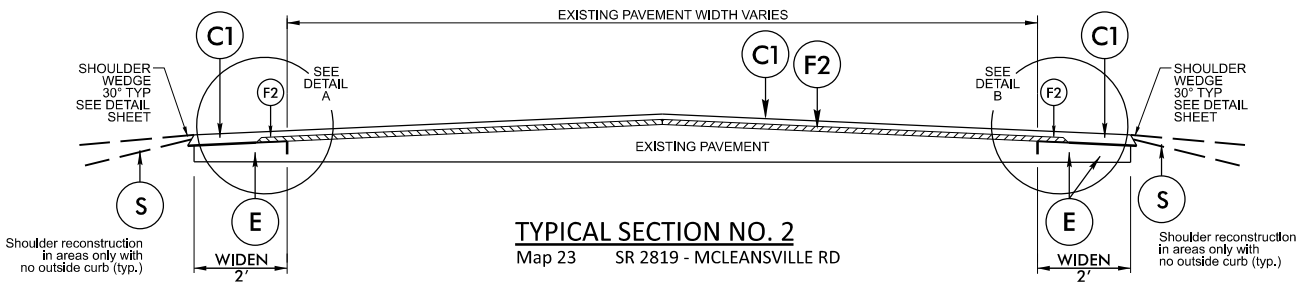
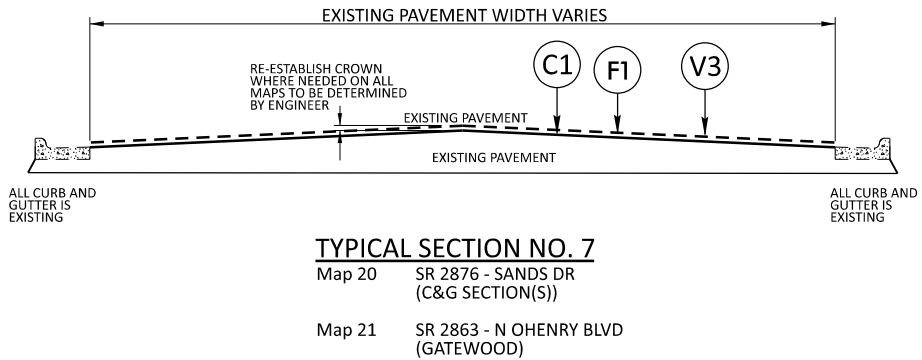
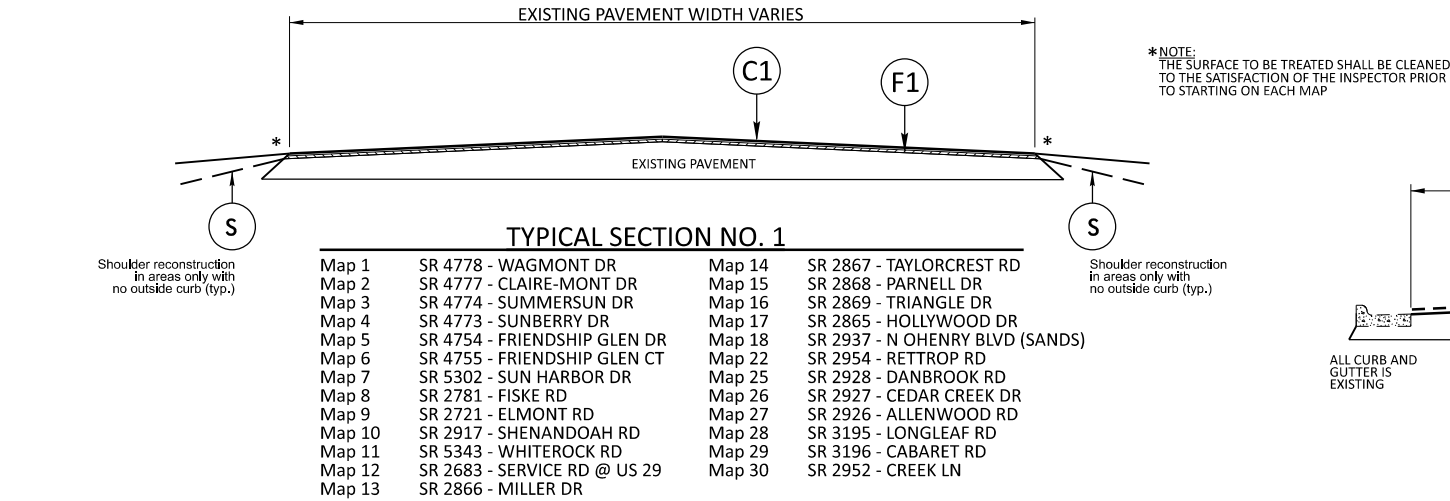


- Map 22 SR 2954 - RETTROP ROAD
- Map 23 SR 2819 - MCLEANSVILLE ROAD
- Map 24 SR 2819 - MCLEANSVILLE ROAD
(DO NOT PAVE BRIDGE 171)
(DO NOT PAVE RXR OVERPASS)
(SEE BRIDGE RECOMMENDATION)
- Map 25 SR 2928 - DANBROOK ROAD
- Map 26 SR 2927 - CEDAR CREEK DRIVE
- Map 27 SR 2926 - ALLENWOOD ROAD



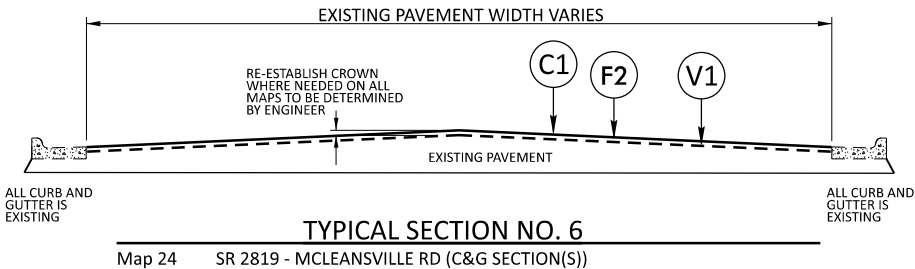
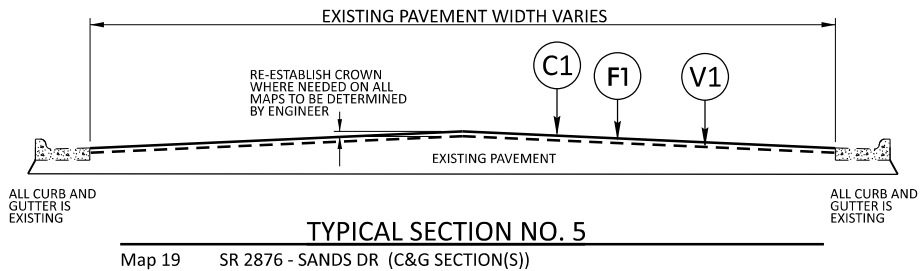
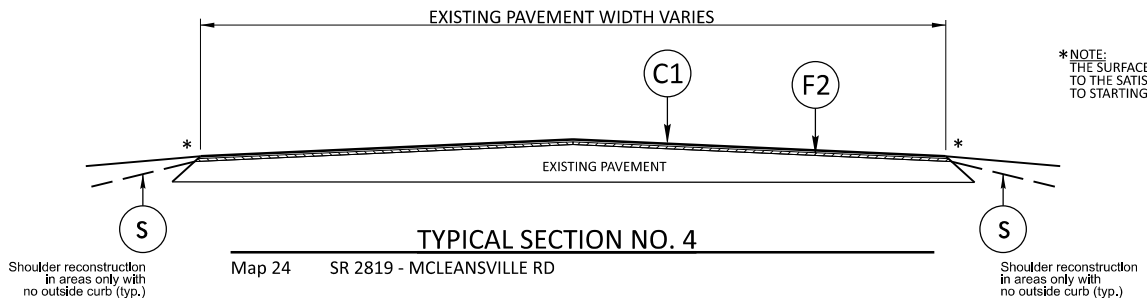
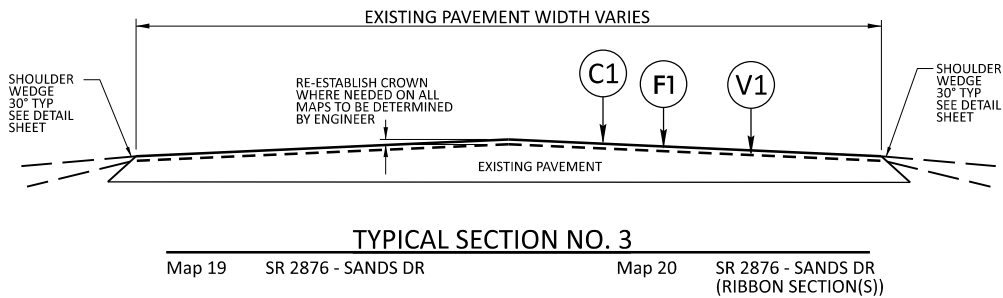
Map 28 SR 3195 - LONGLEAF ROAD
Map 29 SR 3196 - CABARET ROAD
Map 30 SR 2952 - CREEK LANE





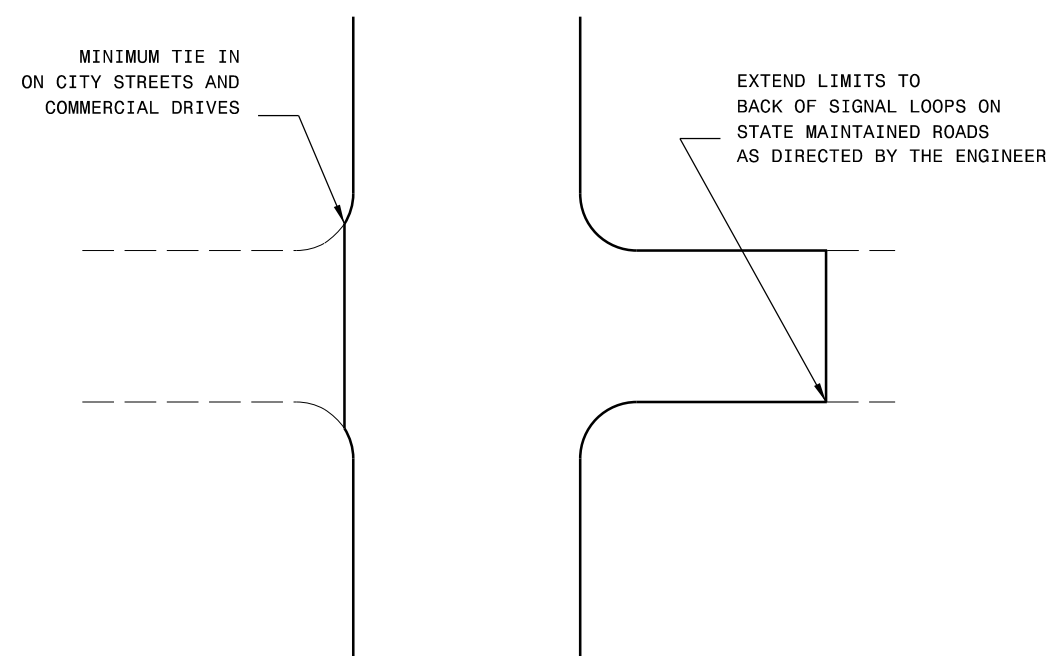
SHOULDER RECONSTRUCTION

* PLACE ASB OR BORROW AS DIRECTED BY THE ENGINEER

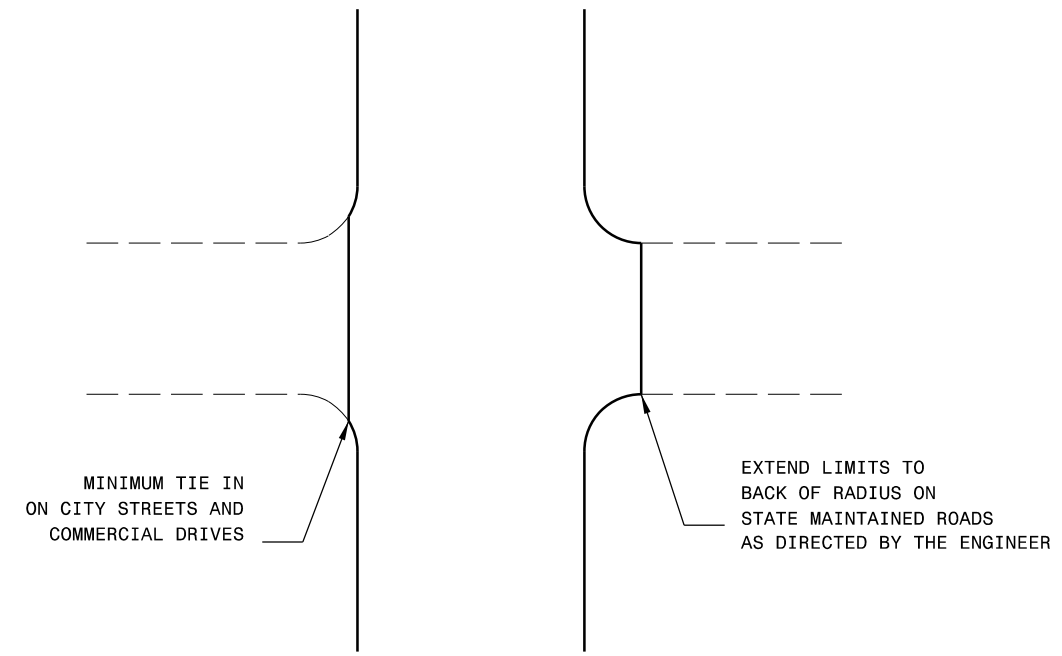


PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
E	PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
F1	AST MAT COAT, #78M
F2	AST MAT COAT, #67
V1	MILL ASPHALT PAVEMENT, 1½" DEPTH
V3	MILL ASPHALT PAVEMENT, 3" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING ASPHALT



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES

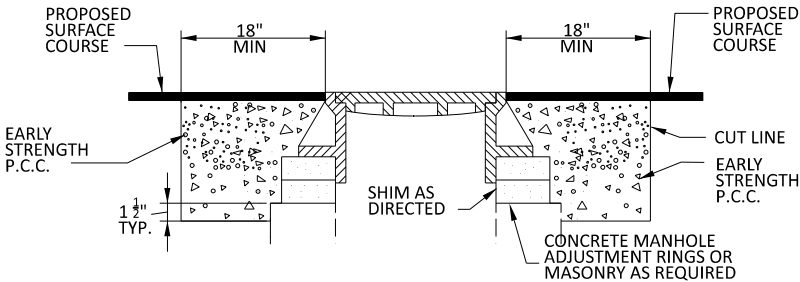


TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)

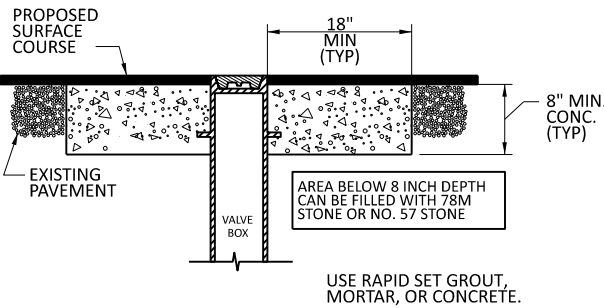
Extend paving limits to back of radius
or loop on the following intersections:

[illegible]

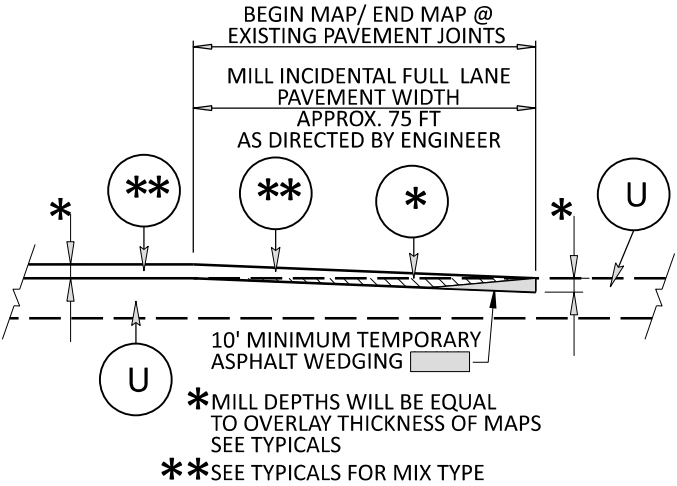


- NOTES:
1. MORTAR SHALL BE MIXED TO NCDOT SPECIFICATIONS.
 2. ALL FAULTY EXISTING BRICKWORK TO BE REMOVED AND REPLACED WITH NEW BRICK MASONRY.
 3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT ON ALL SIDES.
 4. RAPID SET GROUT, MORTAR, OR CONCRETE SHALL BE USED CLASS B CONCRETE MAY BE USED WHEN ADJUSTMENTS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

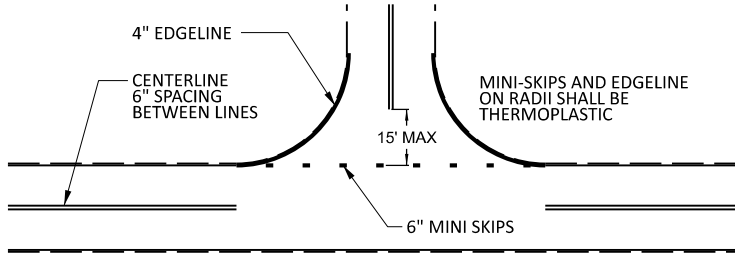
**STANDARD CONCRETE ENCASEMENT
FOR MANHOLE CASTINGS IN PAVEMENT**



**STANDARD CONCRETE ENCASEMENT FOR
VALVE CASTINGS IN PAVEMENT**

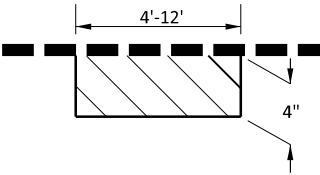


INCIDENTAL MILLING AT TIE-IN DETAIL



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

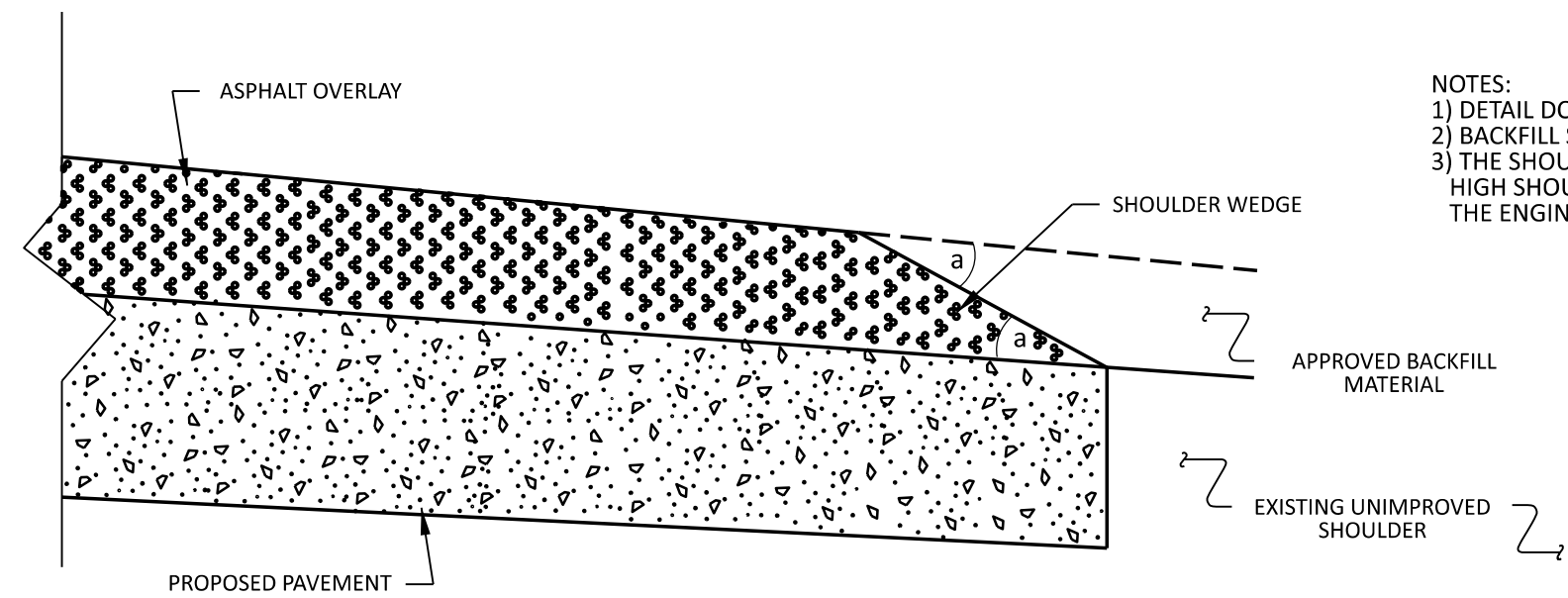
**TO BE USED AT ALL
NON-SIGNALIZED INTERSECTIONS
(NOT TO SCALE)**



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

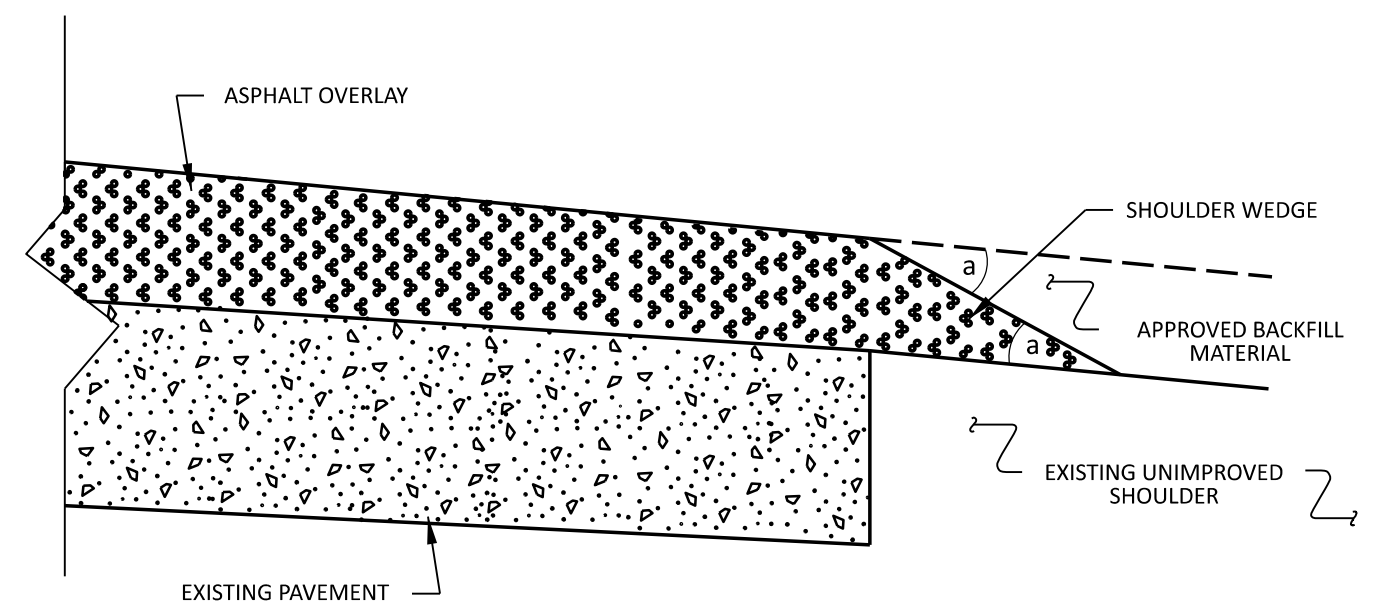
**PATCHING EXISTING
PAVEMENT DETAIL**

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
E	PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
F1	AST MAT COAT, #78M
F2	AST MAT COAT, #67
V1	MILL ASPHALT PAVEMENT, 1½" DEPTH
V3	MILL ASPHALT PAVEMENT, 3" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING ASPHALT

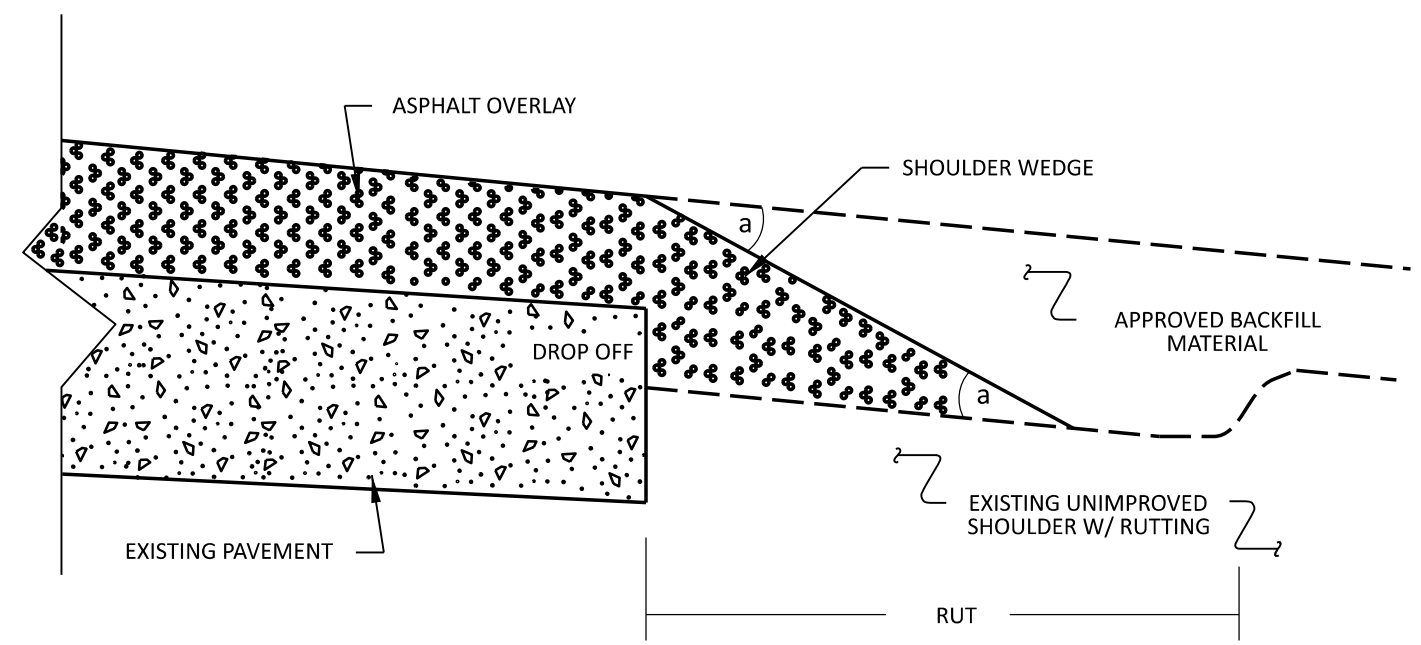


NOTES:
1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS DIRECTED BY THE ENGINEER.

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



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



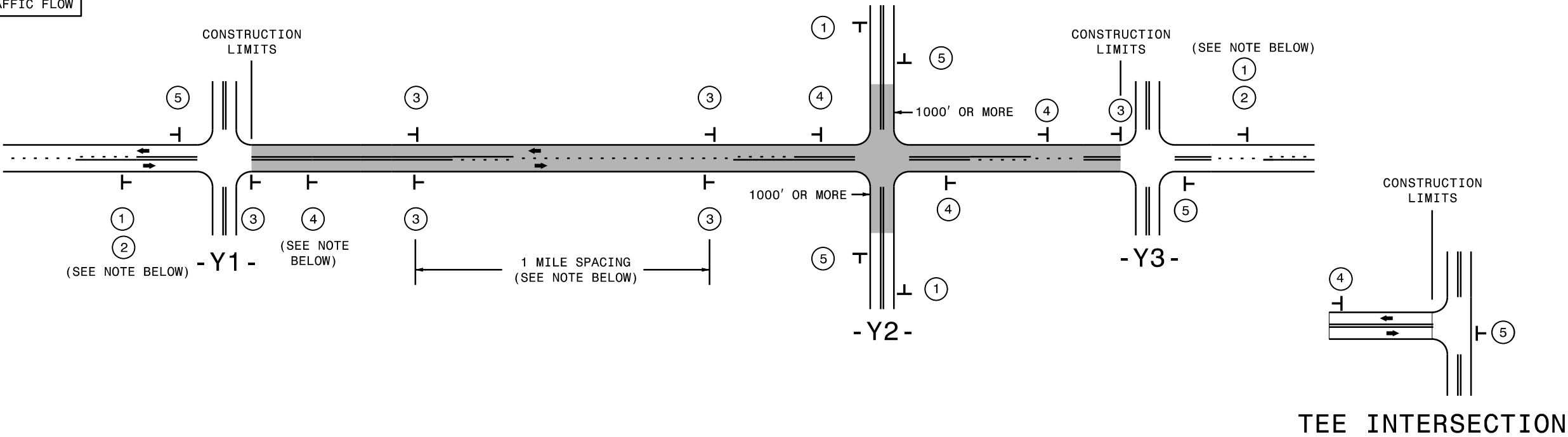
SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

- 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		

SIGNING FOR RESURFACING PROJECTS

LEGEND
└ STATIONARY SIGN
↔ DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 2 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

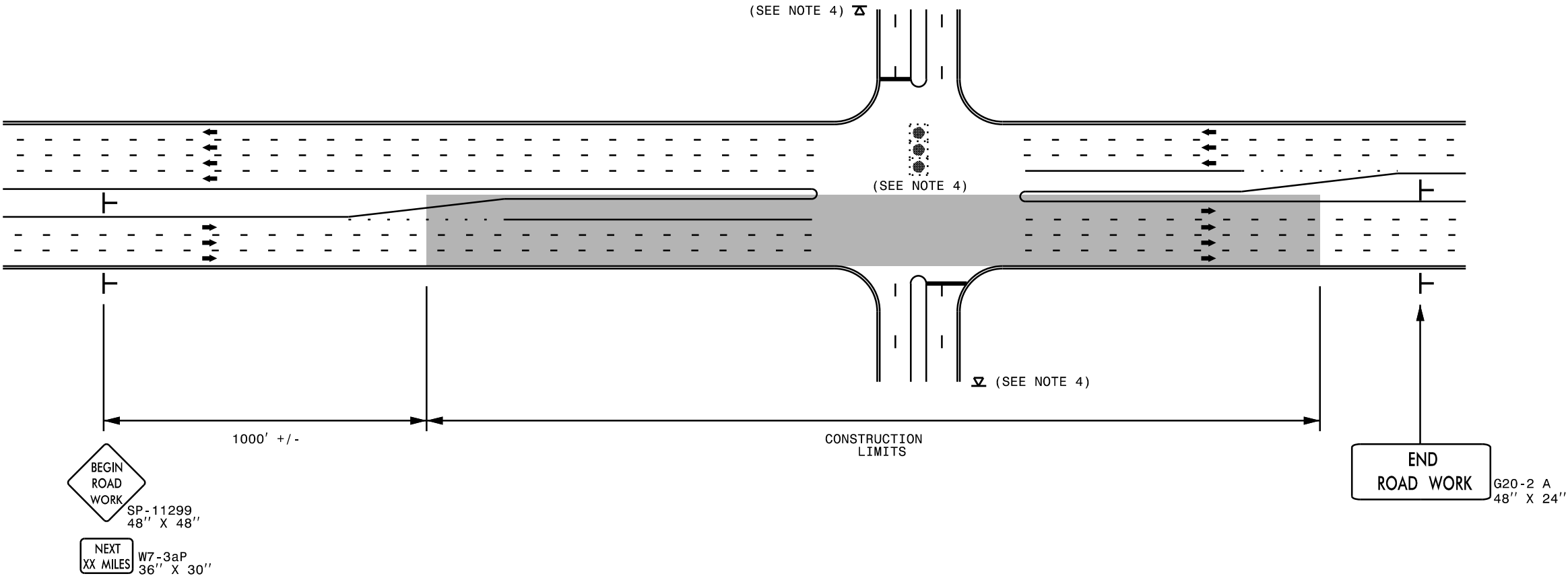
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

AD

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

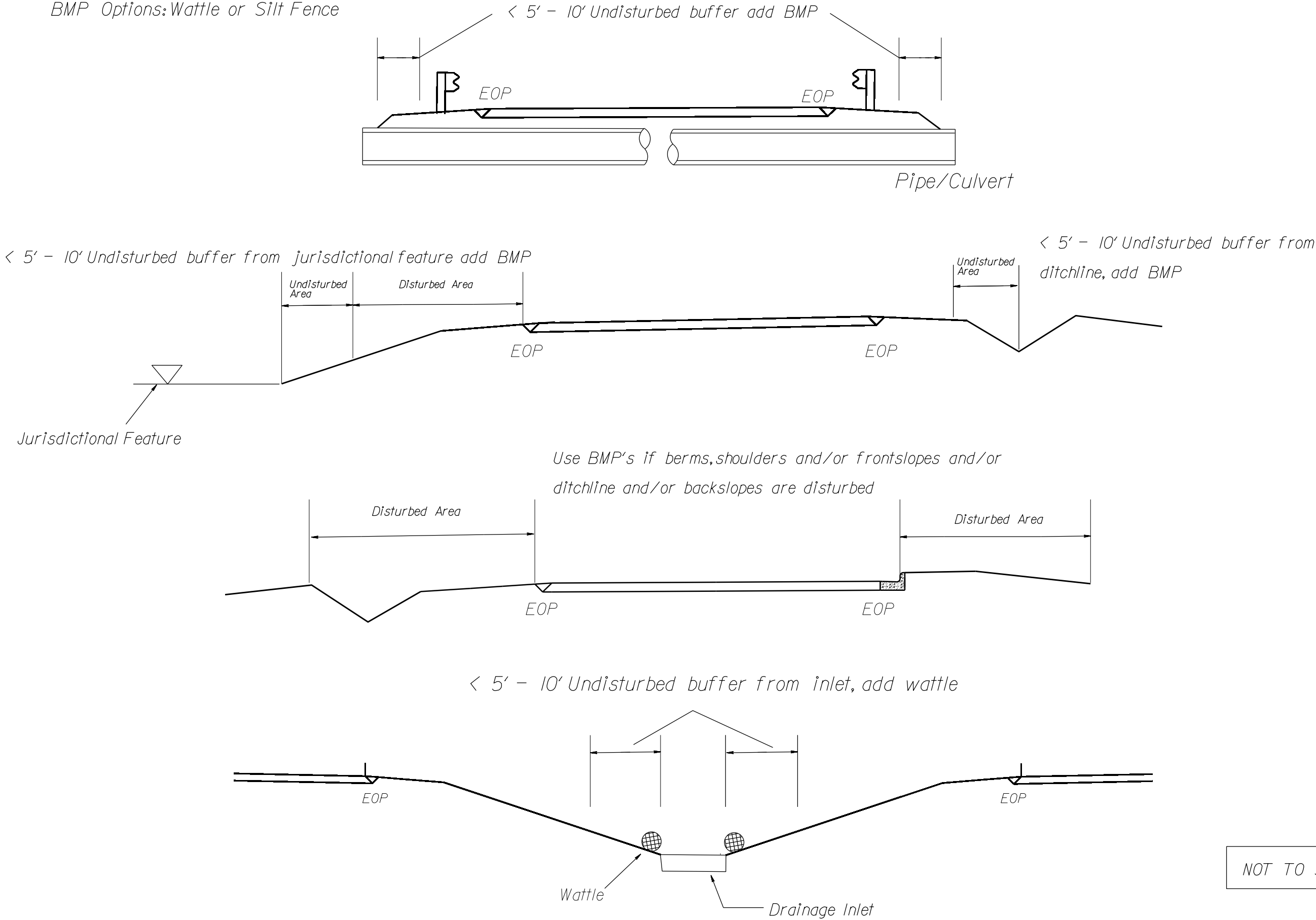
WORK ZONE TRAFFIC CONTROL

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.

SAW SLOT DEPTH CHART

ASSUMING 2" MILLING DEPTH

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

LOOP WIRE TWISTING METHOD

INCORRECT WAY TO TWIST WIRE

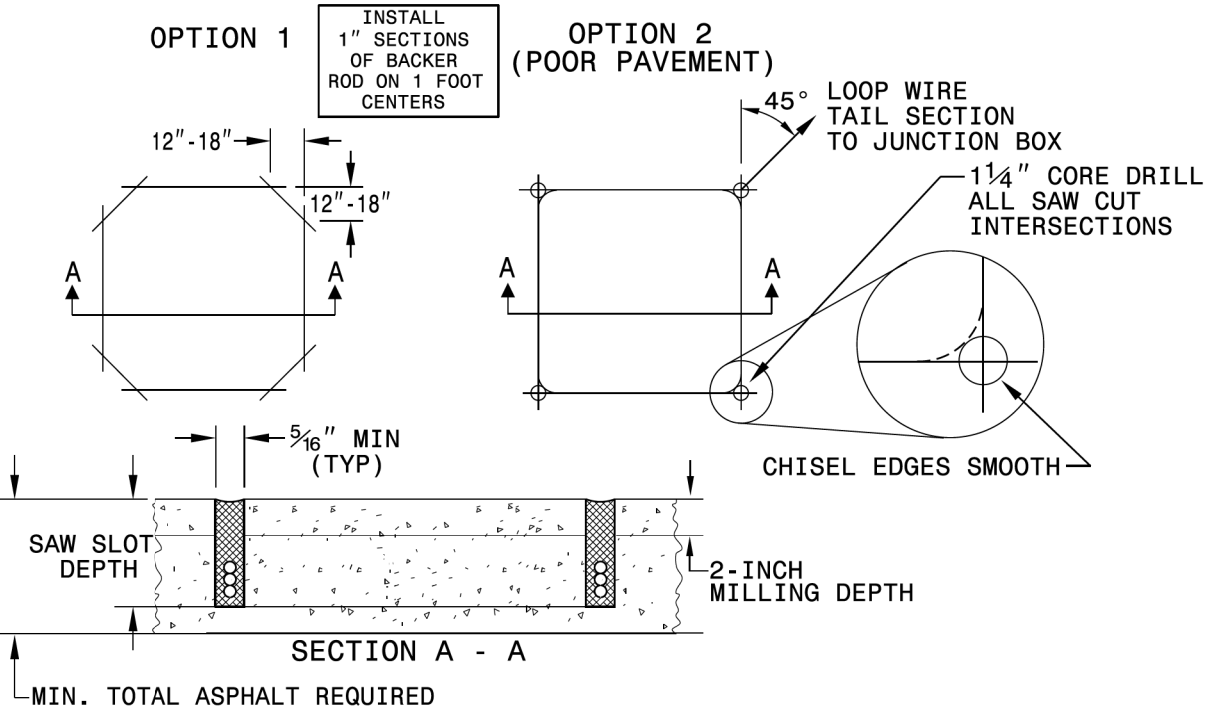


CORRECT WAY TO TWIST WIRE

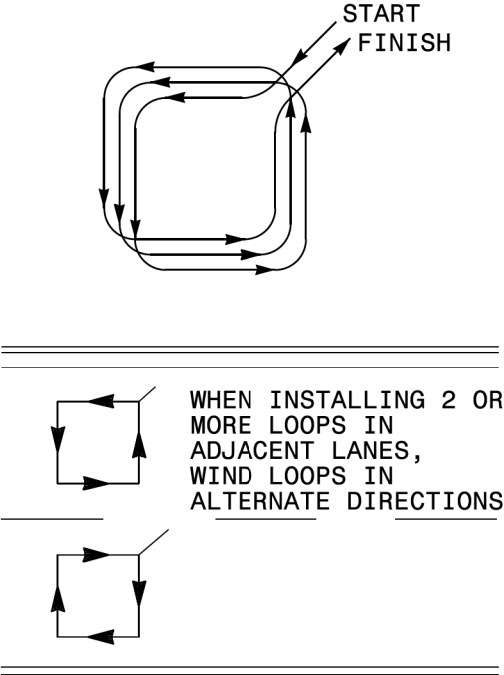


CONVENTIONAL 4-SIDED LOOP

SAW CUT OPTIONS

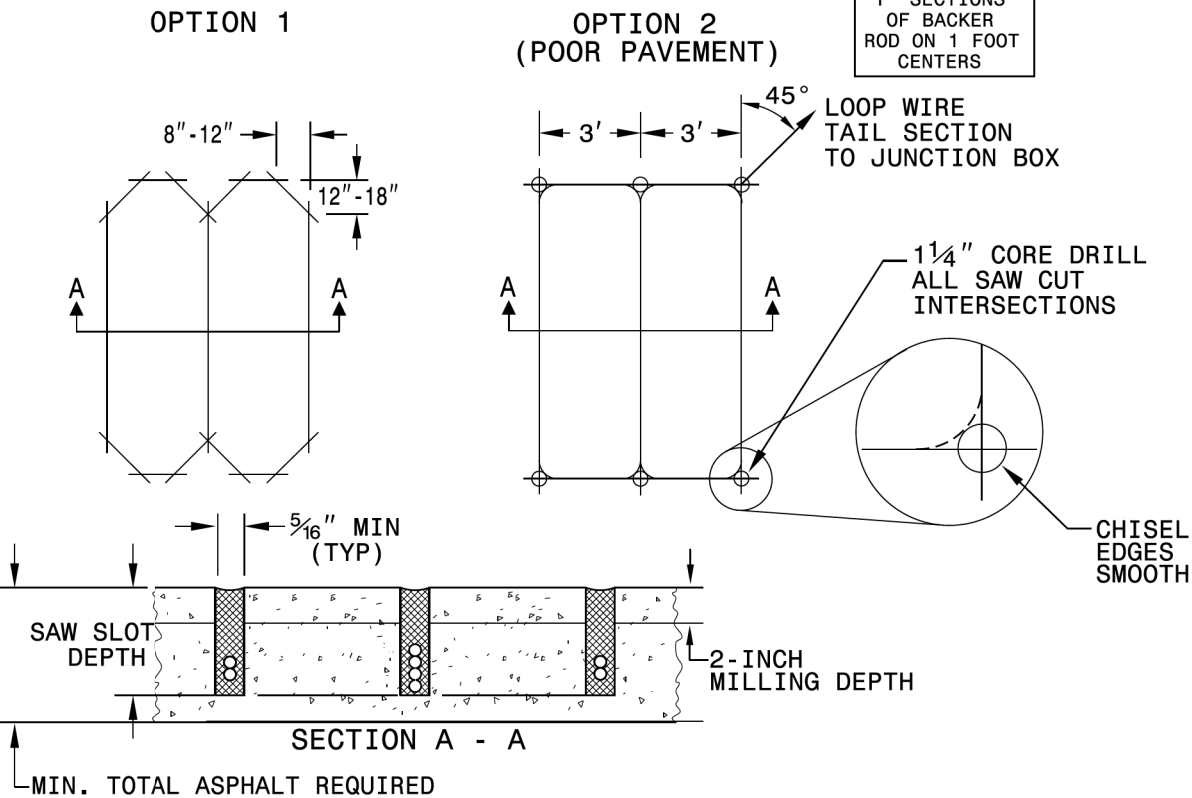


LOOP WINDING METHOD

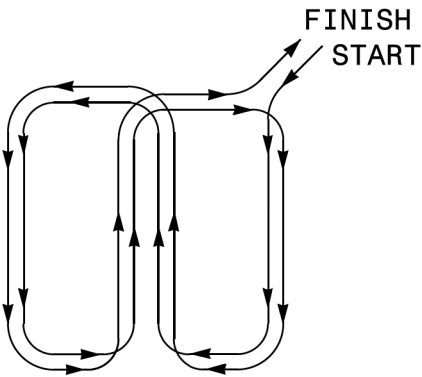


QUADRUPOLE LOOP

SAW CUT OPTIONS

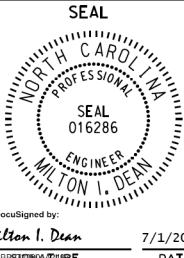


LOOP WINDING METHOD



REVISIONS

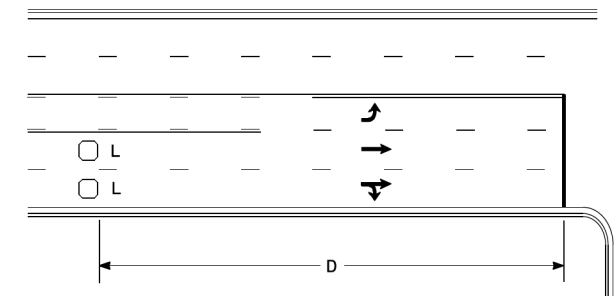
1. REMOVED TWISTING NOTES FROM TAIL SECT. TO JUNCTION BOX. 2/26/08 MWH
2. REVISED SECTION A - A DETAILS. 6/29/15 JTP



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)

High Speed Detection
(≥35 mph)

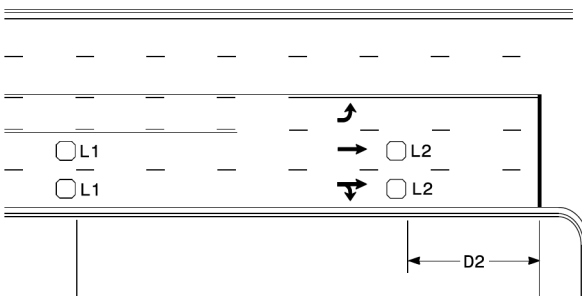


Speed Limit mph	D ft
35	200
40	250
45	300
50	355
55	420
60	475
65	550

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR



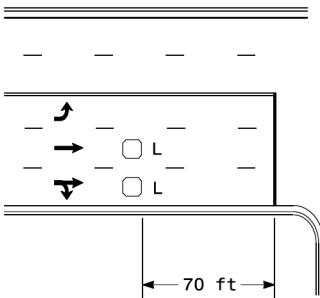
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110
60	475	120
65	550	130

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

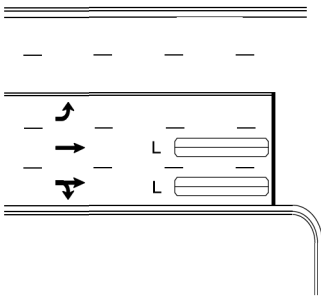
"Stretch" Operation

Low Speed Detection
(≤35 mph)



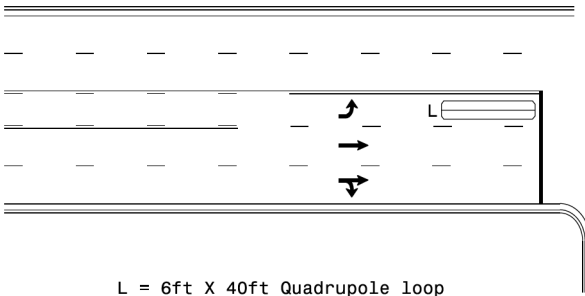
L = 6ft X 6ft
Wired in series

OR



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

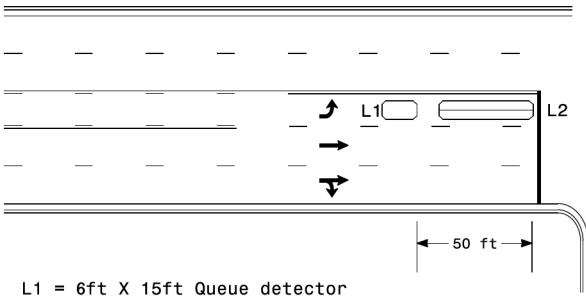
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

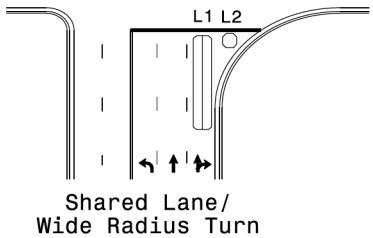
OR



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

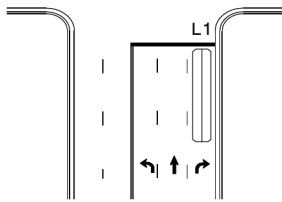
Queue Loop Detection

Right Turn Lane Detection

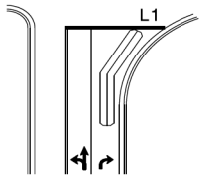


Shared Lane/
Wide Radius Turn

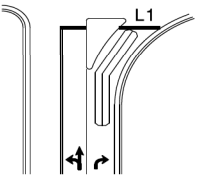
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

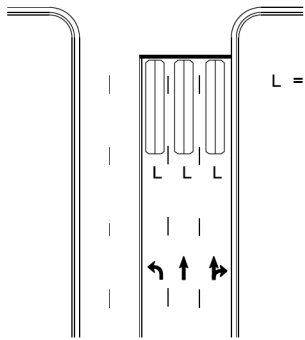


Wide Radius Turn



Channelized Turn

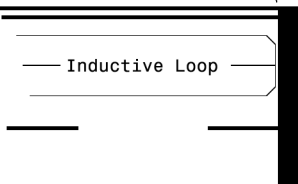
Side Street Detection



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

	Typical Signal Loop Locations		
	PLAN DATE: September 2025	REVIEWED BY:	
	PREPARED BY: J.A. Lohr	REVIEWED BY:	
	REVISIONS	INIT. DATE	
SCALE N/A			SIG. INVENTORY NO.

SUMMARY OF QUANTITIES																															
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	0106000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1491000000-E	1519000000-E	1575000000-E	1704000000-E	1775000000-E	1775500000-E	1838000000-E	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	7990000000-E	
												BORROW EXCAVATION	INCIDENTAL STONE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, DEPTH (1 1/2")	MILLING ASPHALT PAVEMENT, DEPTH (3")	INCIDENTAL MILLING	ASPHALT CONC BASE COURSE, TYPE B25.0C	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MAT COAT, #78M STONE	ASPHALT SURFACE TREATMENT, MAT COAT, #67 STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	TEMPORARY SILTFENCE	WATTLE	SEEDING & MULCHING	INDUCTIVE LOOP SAW CUT (DEEP CUT)
								M	FT			CY	TONS	SMI	TON	SY	SY	SY	TON	TONS	TON	TON	SY	SY	GAL	EA	EA	LF	LF	AC	LF
2027CPT.07.16.20411	Guilford	1	SR-4778 / WAGMONT DR	FROM DEAD END TO DEAD END	1	2	2WU	0.11	21	0.00	0.11	2	21	0.22	6			650		143	9	4	1,438		475			43	4	0.01	
TOTAL FOR MAP NO. 1								0.11				2	21	0.22	6			650		143	9	4	1,438		475			43	4	0.01	
2027CPT.07.16.20411	Guilford	2	SR-4777 / CLAIRE-MONT DR	FROM SR2514 - OLD REDSMILLERD TO SR4778 - WAGMONT DR	1	2	2WU	0.21	21	0.00	0.21	4	30	0.42	12			350		239	16		2,629		868			85	8	0.02	
TOTAL FOR MAP NO. 2								0.21				4	30	0.42	12			350		239	16		2,629		868			85	8	0.02	
2027CPT.07.16.20411	Guilford	3	SR-4774 / SUMMERSUN DR	FROM SR4773 - SUNBERRY DR TO DEAD END	1	2	2WU	0.10	20	0.00	0.10	2		0.19	5			438		109	8	23	1,197		395			38	4	0.01	
TOTAL FOR MAP NO. 3								0.10				2		0.19	5			438		109	8	23	1,197		395			38	4	0.01	
2027CPT.07.16.20411	Guilford	4	SR-4773 / SUNBERRY DR	FROM SR4754 - FRIENDSHIP GLEN DR TO DEAD END	1	2	2WU	0.16	21	0.00	0.16	3	3	0.33	9			350		209	14	12	2,030		670			66	7	0.01	
TOTAL FOR MAP NO. 4								0.16				3	3	0.33	9			350		209	14	12	2,030		670			66	7	0.01	
2027CPT.07.16.20411	Guilford	5	SR-4754 / FRIENDSHIP GLEN DR	FROM SR2728 - FRIENDSHIP CHURCH RD TO CUL-DE-SAC	1	2	2WU	0.88	20	0.00	0.88	17	21	1.74	49			704		1,042	68	13	10,920		3,604			348	35	0.06	
TOTAL FOR MAP NO. 5								0.88				17	21	1.74	49			704		1,042	68	13	10,920		3,604			348	35	0.06	
2027CPT.07.16.20411	Guilford	6	SR-4755 / FRIENDSHIP GLEN CT	FROM SR4754 - FRIENDSHIP GLEN DR TO CUL-DE-SAC	1	2	2WU	0.07	21	0.00	0.07	1	6	0.14	4			633		104	7	10	1,147		379			27	3	0.01	
TOTAL FOR MAP NO. 6								0.07				1	6	0.14	4			633		104	7	10	1,147		379			27	3	0.01	
2027CPT.07.16.20411	Guilford	7	SR-5302 / SUN HARBOR DR	FROM SR4754 - FRIENDSHIP GLEN DR TO DEAD END	1	2	2WU	0.23	21	0.00	0.23	5	3	0.46	13			350		275	18	6	2,864		945			92	9	0.02	
TOTAL FOR MAP NO. 7								0.23				5	3	0.46	13			350		275	18	6	2,864		945			92	9	0.02	
2027CPT.07.16.20411	Guilford	8	SR-2781 / FISHER DR	FROM NC61 TO DEAD END	1	2	2WU	0.09	20	0.00	0.09	2	9	0.19	5			342		103	7		1,134		374			38	4	0.01	
TOTAL FOR MAP NO. 8								0.09				2	9	0.19	5			342		103	7		1,134		374			38	4	0.01	
2027CPT.07.16.20411	Guilford	9	SR-2721 / ELMONT RD	FROM NC61 TO DEAD END	1	2	2WU	0.29	21	0.00	0.29	6	21	0.58	16			508		363	24		3,665		1,209			116	12	0.02	
TOTAL FOR MAP NO. 9								0.29				6	21	0.58	16			508		363	24		3,665		1,209			116	12	0.02	
2027CPT.07.16.20411	Guilford	10	SR-2917 / SHENANDOAH RD	FROM BEGIN MAINTENANCE TO DEAD END	1	2	2WU	0.14	18	0.00	0.14	3	9	0.27	8			325		156	10		1,606		530			55	5	0.01	
TOTAL FOR MAP NO. 10								0.14				3	9	0.27	8			325		156	10		1,606		530			55	5	0.01	
2027CPT.07.16.20411	Guilford	11	SR-5343 / WHITEBROOK RD	FROM DEAD END TO PAVEMENT JOINT	1	2	2WU	0.05	19	0.00	0.05	1		0.11	3			334		73	5	2	626		207			21	2	0.00	
TOTAL FOR MAP NO. 11								0.05				1		0.11	3			334		73	5	2	626		207			21	2	0.00	
2027CPT.07.16.20411	Guilford	12	SR-2683 / SERVICE RD @ US 29	FROM US 29 TO DEAD END	1	2	2WU	0.08	17	0.00	0.08	2	3		5			300		80	5		886		292			33	3	0.01	
TOTAL FOR MAP NO. 12								0.08				2	3		5			300		80	5		886		292			33	3	0.01	
2027CPT.07.16.20411	Guilford	13	SR-2866 / MILLER DR	FROM DEAD END TO DESMOND WOODS DR	1	2	2WU	0.34	21	0.00	0.34	7	57	0.68	19			350		432	28		4,237		1,398			137	14	0.03	
TOTAL FOR MAP NO. 13								0.34				7	57	0.68	19			350		432	28		4,237		1,398			137	14	0.03	
2027CPT.07.16.20411	Guilford	14	SR-2867 / TAYLORCREST RD	FROM SR2835 - MCKNIGHTMILL RD TO SR2866 - MILLER DR	1	2	2WU	0.27	21	0.00	0.27	5	18	0.55	16			350		336	23	34	3,392		1,119			109	11	0.02	
TOTAL FOR MAP NO. 14								0.27				5	18	0.55	16			350		336	23	34	3,392		1,119			109	11	0.02	
2027CPT.07.16.20411	Guilford	15	SR-2868 / PARNELL DR	FROM SR2867 - TAYLORCREST RD TO SR2865 - HOLLYWOOD DR	1	2	2WU	0.21	20	0.00	0.21	4	12	0.42	12			334		241	18	49	2,504		826			85	8	0.02	
TOTAL FOR MAP NO. 15								0.21				4	12	0.42	12			334		241	18	49	2,504		826			85	8	0.02	

CONTINUED (NEXT SHEET)

NOTE: All Quantities listed Include Intersections and Cul-de-Sacs and are Estimates, Payment will be based actual Field Measurements and Quantities Recieved.

SUMMARY OF QUANTITIES																															
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	0106000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1491000000-E	1519000000-E	1575000000-E	1704000000-E	1775000000-E	1775500000-E	1838000000-E	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	7990000000-E	
												BORROW EXCAVATION	INCIDENTAL STONE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, DEPTH (1 1/2")	MILLING ASPHALT PAVEMENT, DEPTH (3")	INCIDENTAL MILLING	ASPHALT CONC BASE COURSE, TYPE B25.0C	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MAT COAT, #78M STONE	ASPHALT SURFACE TREATMENT, MAT COAT, #67 STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	TEMPORARY SILTFENCE	WATTLE	SEEDING & MULCHING	INDUCTIVE LOOP SAW CUT (DEEP CUT)
								MI	FT			CY	TONS	SMI	TON	SY	SY	SY	TON	TONS	TON	TON	SY	SY	GAL	EA	EA	LF	LF	AC	LF
2027CPT.07.16.20411	Guilford	16	SR-2869 / TRIANGLE DR	FROM SR2868 - PARNELL DR TO SR2867 - TAYLORCREST ROAD	1	2	2WU	0.16	18	0.00	0.16	3	12	0.31	9			308		156	13	62	1,718		567			63	6	0.01	
TOTAL FOR MAP NO. 16							0.16					3	12	0.31	9			308		156	13	62	1,718		567			63	6	0.01	
2027CPT.07.16.20411	Guilford	17	SR-2865 / HOLLYWOOD DR	FROM SR2835 - MCKNIGHTMILL RD TO SR2866 - MILLER DR	1	2	2WU	0.15	20	0.00	0.15	3	6	0.30	9			342		177	12		1,845		609			61	6	0.01	
TOTAL FOR MAP NO. 17							0.15					3	6	0.30	9			342		177	12		1,845		609			61	6	0.01	
2027CPT.07.16.20411	Guilford	18	SR-2937 / N CHENRY BLVD	FROM SR2835 - MCKNIGHTMILL RD TO DEAD END	1	2	2WU	0.34	20	0.00	0.34	7		0.70	20			175		412	27	10	4,392		1,449			140	14	0.03	
TOTAL FOR MAP NO. 18							0.34					7		0.70	20			175		412	27	10	4,392		1,449			140	14	0.03	
2027CPT.07.16.20411	Guilford	19	SR-2876 / SANDS DR	FROM SR2835 - MCKNIGHTMILL RD TO BEGIN C&G	3,5	2	2WU	0.25	20	0.00	0.25					4,071		391		405	28	31									
TOTAL FOR MAP NO. 19							0.25									4,071		391		405	28	31									
2027CPT.07.16.20411	Guilford	20	SR-2876 / SANDS DR	FROM BEGIN C&G TO CONE BLVD	3,7	2	M2	0.16	30	0.25	0.41									308	21	10			3						449
TOTAL FOR MAP NO. 20							0.16													308	21	10			3						449
2027CPT.07.16.20411	Guilford	21	SR-2863 / N CHENRY BLVD	FROM US29 TO GATEWOOD AVE	7	2	2WU	0.18	14	0.00	0.18									142	10	10									
TOTAL FOR MAP NO. 21							0.18													142	10	10									
2027CPT.07.16.20411	Guilford	22	SR-2954 / RETTROP DR	FROM SR2770 - HUFFNEMILL RD TO CUL-DE-SAC	1	2	2WU	0.36	19	0.00	0.36	7	12	0.73	21			583		424	29	21	4,555		1,503			145	15	0.03	
TOTAL FOR MAP NO. 22							0.36					7	12	0.73	21			583		424	29	21	4,555		1,503			145	15	0.03	
2027CPT.07.16.20411	Guilford	23	SR-2819 / MCLEANS MILL RD	FROM SR2565 - HICONERD TO SR2770 - HUFFNEMILL RD	2	2	2WU	1.95	21	0.00	1.95	153	90	3.83	434				2,048	2,713	269	17		25,430	9,663			766	77	0.56	
TOTAL FOR MAP NO. 23							1.95					153	90	3.83	434				2,048	2,713	269	17		25,430	9,663			766	77	0.56	
2027CPT.07.16.20411	Guilford	24	SR-2819 / MCLEANS MILL RD	FROM SR2770 - HUFFNEMILL RD TO US70	4,6	2	2WU	3.63	20	0.00	3.63	63	150	6.27	178	6,403		487		5,162	339	76		46,719	17,753	1	1,374	137	0.23		
TOTAL FOR MAP NO. 24							3.63					63	150	6.27	178	6,403		487		5,162	339	76		46,719	17,753	1	1,374	137	0.23		
2027CPT.07.16.20411	Guilford	25	SR-2928 / DANBROOK DR	FROM SR2746 - FRIEDEN CHURCH RD TO DEAD END	1	2	2WU	0.35	20	0.00	0.35	7	9	0.70	20			334		394	26		4,159		1,372			141	14	0.03	
TOTAL FOR MAP NO. 25							0.35					7	9	0.70	20			334		394	26		4,159		1,372			141	14	0.03	
2027CPT.07.16.20411	Guilford	26	SR-2927 / CEDAR CREEK DR	FROM SR2926 - ALLENWOOD RD TO DEAD END	1	2	2WU	0.28	20	0.00	0.28	6	3	0.55	16			334		297	19	2	3,276		1,081			111	11	0.02	
TOTAL FOR MAP NO. 26							0.28					6	3	0.55	16			334		297	19	2	3,276		1,081			111	11	0.02	
2027CPT.07.16.20411	Guilford	27	SR-2926 / ALLENWOOD RD	FROM SR2746 - FRIEDEN CHURCH RD TO DEAD END	1	2	2WU	0.23	18	0.00	0.23	4	9	0.44	13			325		243	16		2,573		849			89	9	0.02	
TOTAL FOR MAP NO. 27							0.23					4	9	0.44	13			325		243	16		2,573		849			89	9	0.02	
2027CPT.07.16.20411	Guilford	28	SR-3195 / LONGLEAF RD	FROM SR3045 - MTHOPECHURCH RD TO SR3197 - BEACHLAND DRIVE	1	2	2WU	0.30	20	0.00	0.30	6	6	0.59	17			342		345	23	15	3,598		1,187			119	12	0.02	
TOTAL FOR MAP NO. 28							0.30					6	6	0.59	17			342		345	23	15	3,598		1,187			119	12	0.02	
2027CPT.07.16.20411	Guilford	29	SR-3196 / CABARET RD	FROM DEAD END TO DEAD END	1	2	2WU	0.09	19	0.00	0.09	2	6	0.18	5			325		95	6		1,047		1,187			36	4	0.01	
TOTAL FOR MAP NO. 29							0.09					2	6	0.18	5			325		95	6		1,047		1,187			36	4	0.01	
2027CPT.07.16.20411	Guilford	30	SR-2952 / CREEK LN	FROM SR2808 - SEDALIA RD TO DEAD END	1	2	2WU	0.25	17.5	0.00	0.25	5	24	0.50	14			308		234	15		2,579		851			99	10	0.02	
TOTAL FOR MAP NO. 30							0.25					5	24	0.50	14			308		234	15		2,579		851			99	10	0.02	
TOTAL FOR PROJ.NO. 2027CPT.07.16.20411							11.91					330	540	21.40	938	10,474	4,986	10,572	2,048	15,412	1,113	407	70,017	72,149	51,362	3	1	4,437	444	1.20	449
GRAND TOTAL							11.91					330	540	21.40	938	10,474	4,986	10,572	2,048	15,412	1,113	407	70,017	72,149	51,362	3	1	4,437	444	1.20	449

NOTE: All Quantities listed Include Intersections and Cul-de-Sacs and are Estimates, Payment will be based actual Field Measurements and Quantities Recieved.

THERMOPLASTIC AND PAINT QUANTITIES																					
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4510000000-N	4688000000-E		4704000000-E	4709000000-E	4725000000-E		
								MI	FT			SF	LS	HR	LF	LF	LF	LF	EA	EA	EA
2027CPT.07.16.20411	Guilford	1	SR-4778 / WAGMONT DR	FROM DEAD END TO DEAD END	1	2	2WU	0.11	21	0.00	0.11										
TOTAL FOR MAP NO. 1								0.11													
2027CPT.07.16.20411	Guilford	2	SR-4777 / CLAIRE-MONT DR	FROM SR2514 - OLD REDSMILLE RD TO SR4778 - WAGMONT DR	1	2	2WU	0.21	21	0.00	0.21										
TOTAL FOR MAP NO. 2								0.21													
2027CPT.07.16.20411	Guilford	3	SR-4774 / SUMMERSUN DR	FROM SR4773 - SUNBERRY DR TO DEAD END	1	2	2WU	0.10	20	0.00	0.10										
TOTAL FOR MAP NO. 3								0.10													
2027CPT.07.16.20411	Guilford	4	SR-4773 / SUNBERRY DR	FROM SR4754 - FRIENDSHIP GLEN DR TO DEAD END	1	2	2WU	0.16	21	0.00	0.16										
TOTAL FOR MAP NO. 4								0.16													
2027CPT.07.16.20411	Guilford	5	SR-4754 / FRIENDSHIP GLEN DR	FROM SR2728 - FRIENDSHIP CHURCH RD TO CUL-DE-SAC	1	2	2WU	0.88	20	0.00	0.88										
TOTAL FOR MAP NO. 5								0.88													
2027CPT.07.16.20411	Guilford	6	SR-4755 / FRIENDSHIP GLEN CT	FROM SR4754 - FRIENDSHIP GLEN DR TO CUL-DE-SAC	1	2	2WU	0.07	21	0.00	0.07										
TOTAL FOR MAP NO. 6								0.07													
2027CPT.07.16.20411	Guilford	7	SR-5302 / SUN HARBOR DR	FROM SR4754 - FRIENDSHIP GLEN DR TO DEAD END	1	2	2WU	0.23	21	0.00	0.23										
TOTAL FOR MAP NO. 7								0.23													
2027CPT.07.16.20411	Guilford	8	SR-2781 / FISKE RD	FROM NC61 TO DEAD END	1	2	2WU	0.09	20	0.00	0.09										
TOTAL FOR MAP NO. 8								0.09													
2027CPT.07.16.20411	Guilford	9	SR-2721 / ELMONT RD	FROM NC61 TO DEAD END	1	2	2WU	0.29	21	0.00	0.29										
TOTAL FOR MAP NO. 9								0.29													
2027CPT.07.16.20411	Guilford	10	SR-2917 / SHENANDOAH RD	FROM BEGIN MAINTENANCE TO DEAD END	1	2	2WU	0.14	18	0.00	0.14										
TOTAL FOR MAP NO. 10								0.14													
2027CPT.07.16.20411	Guilford	11	SR-5343 / WHITEROCK RD	FROM DEAD END TO PAVEMENT JOINT	1	2	2WU	0.05	19	0.00	0.05										
TOTAL FOR MAP NO. 11								0.05													
2027CPT.07.16.20411	Guilford	12	SR-2683 / SERVICE RD @US29	FROM US29 TO DEAD END	1	2	2WU	0.08	17	0.00	0.08										
TOTAL FOR MAP NO. 12								0.08													
2027CPT.07.16.20411	Guilford	13	SR-2866 / MILLER DR	FROM DEAD END TO DESMOND WOODS DR	1	2	2WU	0.34	21	0.00	0.34										
TOTAL FOR MAP NO. 13								0.34													
2027CPT.07.16.20411	Guilford	14	SR-2867 / TAYLORCREST RD	FROM SR2835 - MOONLIGHT MILL RD TO SR2866 - MILLER DR	1	2	2WU	0.27	21	0.00	0.27										
TOTAL FOR MAP NO. 14								0.27													
2027CPT.07.16.20411	Guilford	15	SR-2868 / PARNELL DR	FROM SR2867 - TAYLORCREST RD TO SR2865 - HOLLYWOOD DR	1	2	2WU	0.21	20	0.00	0.21										
TOTAL FOR MAP NO. 15								0.21													

CONTINUED (NEXT SHEET)

NOTE: All Quantities listed Include Intersections and Cul-de-Sacs and are Estimates, Payment will be based actual Field Measurements and Quantities Recieved.

THERMOPLASTIC AND PAINT QUANTITIES																						
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4510000000-N	4688000000-E		4704000000-E	4709000000-E	4725000000-E			
												WORKZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	16" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & LT ARROW 90 M	
								MI	FT													SF
2027CPT.07.16.20411	Guilford	16	SR-2869 / TRIANGLE DR	FROM SR2868 - PARNELL DR TO SR2867 - TAYLORCREST ROAD	1	2	2WU	0.16	18	0.00	0.16		1									
TOTAL FOR MAP NO. 16							0.16															
2027CPT.07.16.20411	Guilford	17	SR-2865 / HOLLYWOOD DR	FROM SR2835 - MCKNIGHT MILL RD TO SR2866 - MILLER DR	1	2	2WU	0.15	20	0.00	0.15											
TOTAL FOR MAP NO. 17							0.15															
2027CPT.07.16.20411	Guilford	18	SR-2937 / N CHENRY BLVD	FROM SR2835 - MCKNIGHT MILL RD TO DEAD END	1	2	2WU	0.34	20	0.00	0.34					3,700	3,700					
TOTAL FOR MAP NO. 18							0.34									3,700	3,700					
2027CPT.07.16.20411	Guilford	19	SR-2876 / SANDS DR	FROM SR2835 - MCKNIGHT MILL RD TO BEGIN C&G	3.5	2	2WU	0.25	20	0.00	0.25											
TOTAL FOR MAP NO. 19							0.25															
2027CPT.07.16.20411	Guilford	20	SR-2876 / SANDS DR	FROM BEGIN C&G TO CONE BLVD	3.7	2	M2	0.16	30	0.25	0.41					40	500	2,400		30	5	3
TOTAL FOR MAP NO. 20							0.16									40	500	2,400		30	5	3
2027CPT.07.16.20411	Guilford	21	SR-2863 / N CHENRY BLVD	FROM US29 TO GATEWOOD AVE	7	2	2WU	0.18	14	0.00	0.18											
TOTAL FOR MAP NO. 21							0.18															
2027CPT.07.16.20411	Guilford	22	SR-2954 / RETTROP DR	FROM SR2770 - HUFFNEMILL RD TO CUL-DE-SAC	1	2	2WU	0.36	19	0.00	0.36											
TOTAL FOR MAP NO. 22							0.36															
2027CPT.07.16.20411	Guilford	23	SR-2819 / MCLEANS MILL RD	FROM SR2565 - HICONE RD TO SR2770 - HUFFNEMILL RD	2	2	2WU	1.95	21	0.00	1.95	224				40	21,000	16,000				
TOTAL FOR MAP NO. 23							1.95					224				40	21,000	16,000				
2027CPT.07.16.20411	Guilford	24	SR-2819 / MCLEANS MILL RD	FROM SR2770 - HUFFNEMILL RD TO US70	4.6	2	2WU	3.63	20	0.00	3.63	392				80	39,000	38,000	150		5	
TOTAL FOR MAP NO. 24							3.63					392				80	39,000	38,000	150		5	
2027CPT.07.16.20411	Guilford	25	SR-2928 / DANBROOK DR	FROM SR2746 - FRIEDEN CHURCH RD TO DEAD END	1	2	2WU	0.35	20	0.00	0.35											
TOTAL FOR MAP NO. 25							0.35															
2027CPT.07.16.20411	Guilford	26	SR-2927 / CEDAR CREEK DR	FROM SR2926 - ALLENWOOD RD TO DEAD END	1	2	2WU	0.28	20	0.00	0.28											
TOTAL FOR MAP NO. 26							0.28															
2027CPT.07.16.20411	Guilford	27	SR-2926 / ALLENWOOD RD	FROM SR2746 - FRIEDEN CHURCH RD TO DEAD END	1	2	2WU	0.23	18	0.00	0.23											
TOTAL FOR MAP NO. 27							0.23															
2027CPT.07.16.20411	Guilford	28	SR-3195 / LONGLEAF RD	FROM SR3045 - MT HOPE CHURCH RD TO SR3197 - BEACHLAND DRIVE	1	2	2WU	0.30	20	0.00	0.30											
TOTAL FOR MAP NO. 28							0.30															
2027CPT.07.16.20411	Guilford	29	SR-3196 / CABARET RD	FROM DEAD END TO DEAD END	1	2	2WU	0.09	19	0.00	0.09											
TOTAL FOR MAP NO. 29							0.09															
2027CPT.07.16.20411	Guilford	30	SR-2952 / CREEK LN	FROM SR2808 - SEDALIA RD TO DEAD END	1	2	2WU	0.25	17.5	0.00	0.25											
TOTAL FOR MAP NO. 30							0.25															
TOTAL FOR PROJ NO. 2027CPT.07.16.20411							11.91					616	1	160	64,200	60,100	150	30	5	8	3	
															124,300				16			
GRAND TOTAL								11.91				616	1	160	64,200	60,100	150	30	5	8	3	
															124,300				16			

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