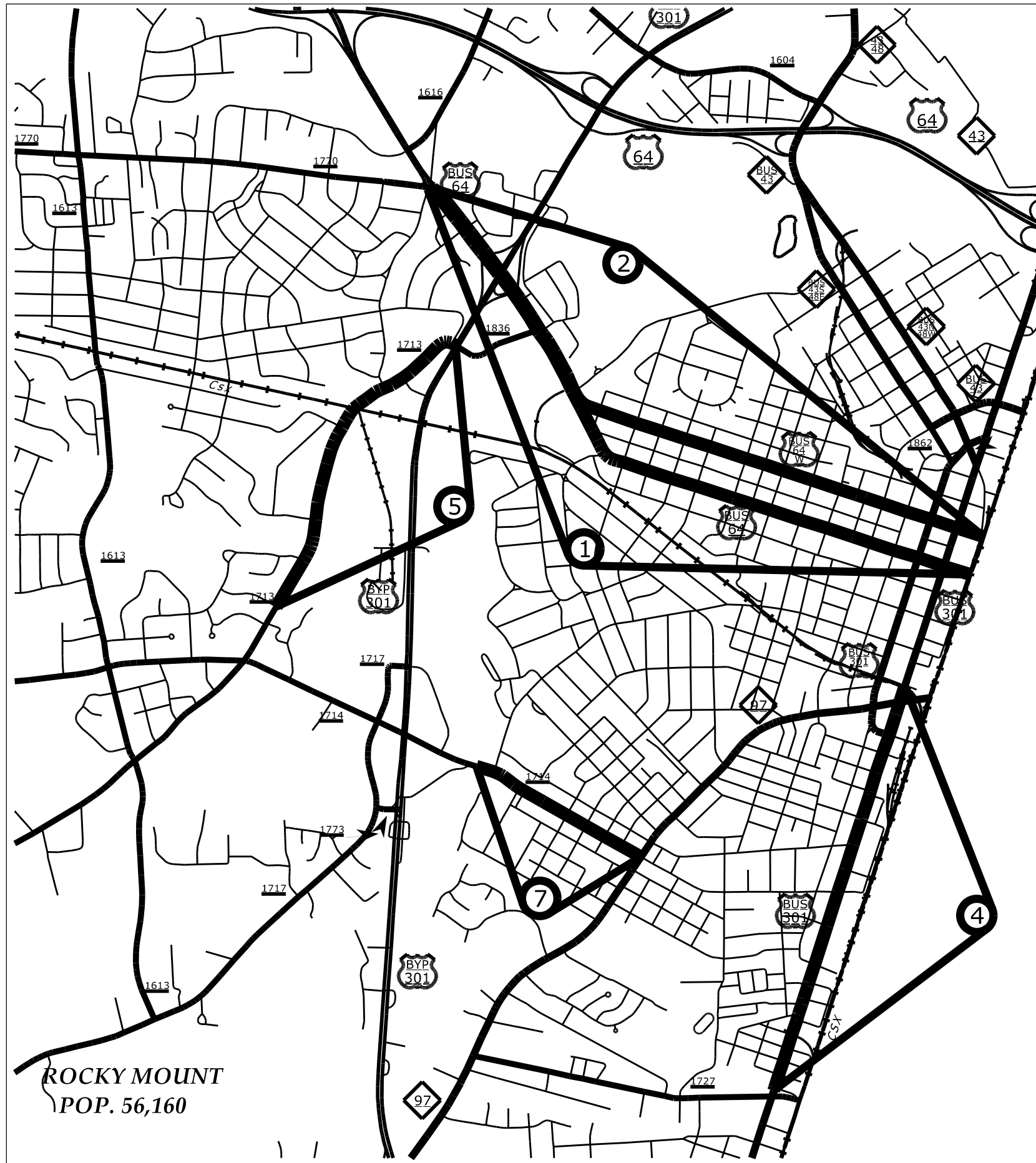


**This electronic collection of documents is provided  
for the convenience of the user  
and is Not a Certified Document –**

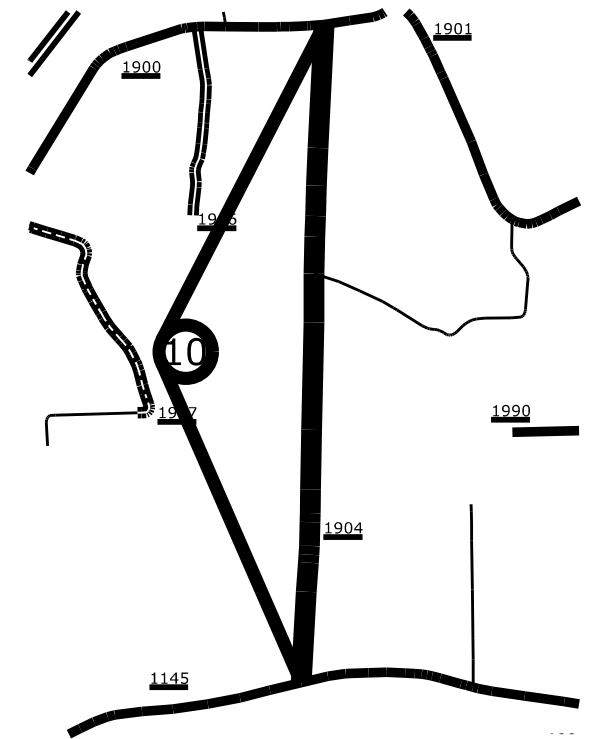
**The documents contained herein were originally issued  
and sealed by the individuals whose names and license  
numbers appear on each page, on the dates appearing  
with their signature on that page.**

**This file or an individual page  
shall not be considered a certified document.**

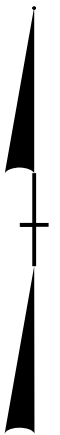
PROJECT NUMBER	SHEET #
2016CPT.04.03.10641.1, ETC	1



ROCKY MOUNT  
POP. 56,160



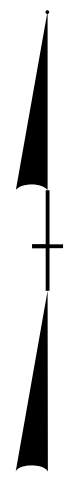
NASH COUNTY



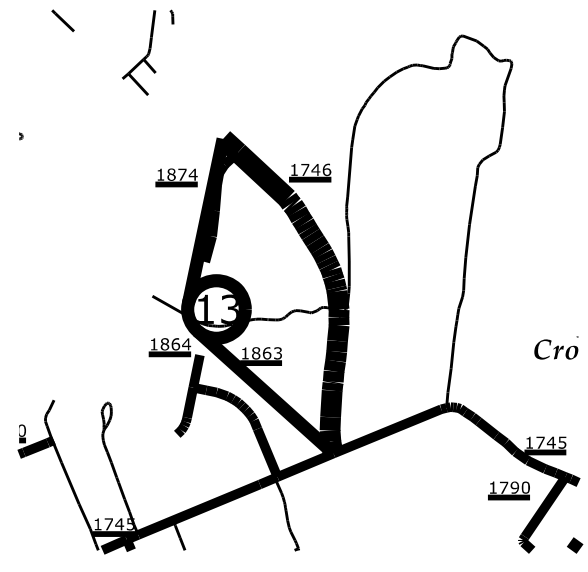
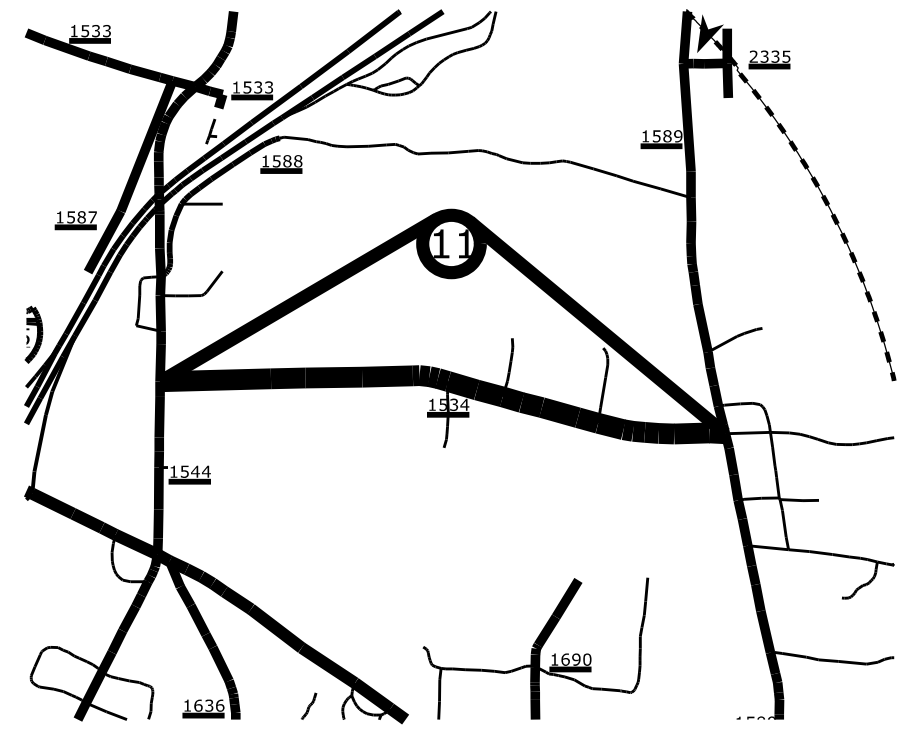
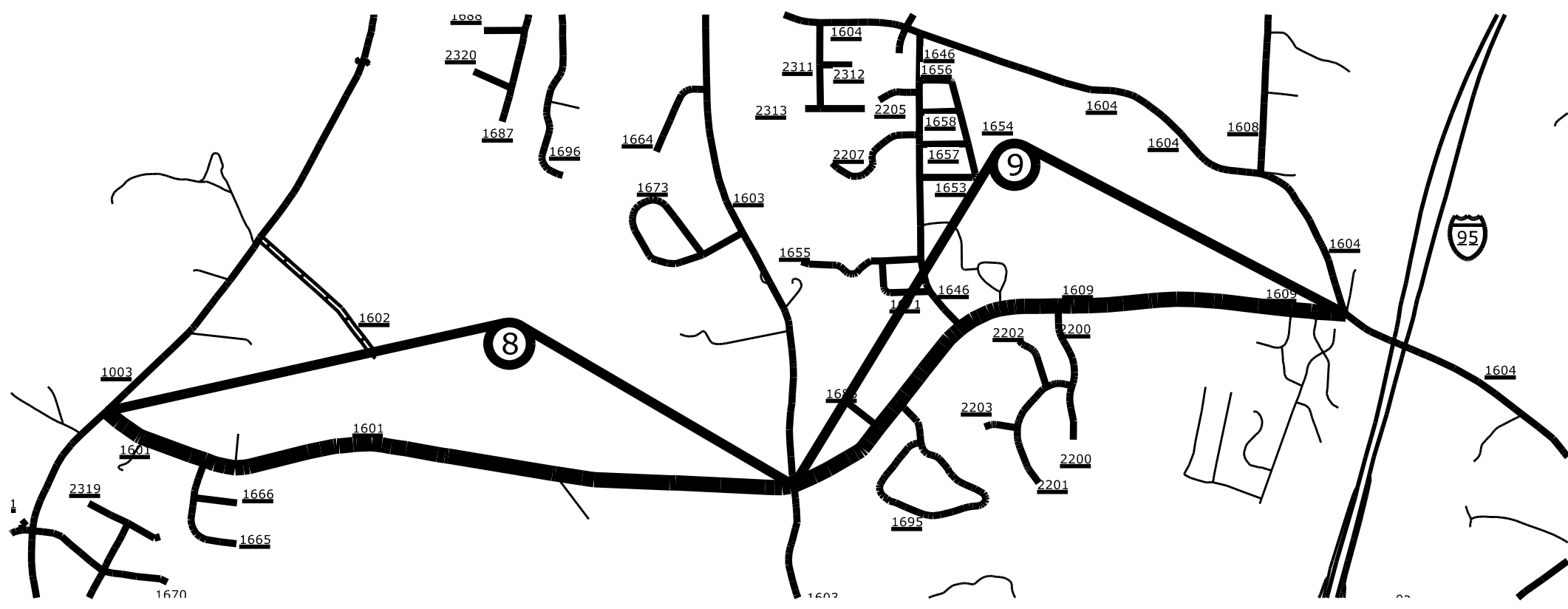
PROJECT NUMBER	SHEET #
2016CPT.04.03.10641.1, ETC	2



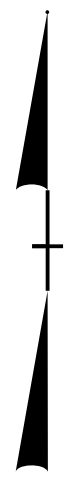
NASH COUNTY



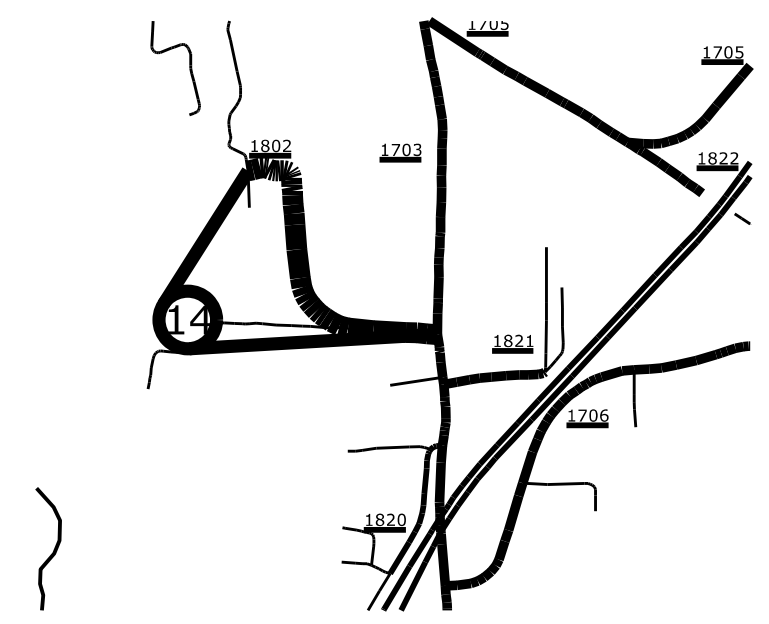
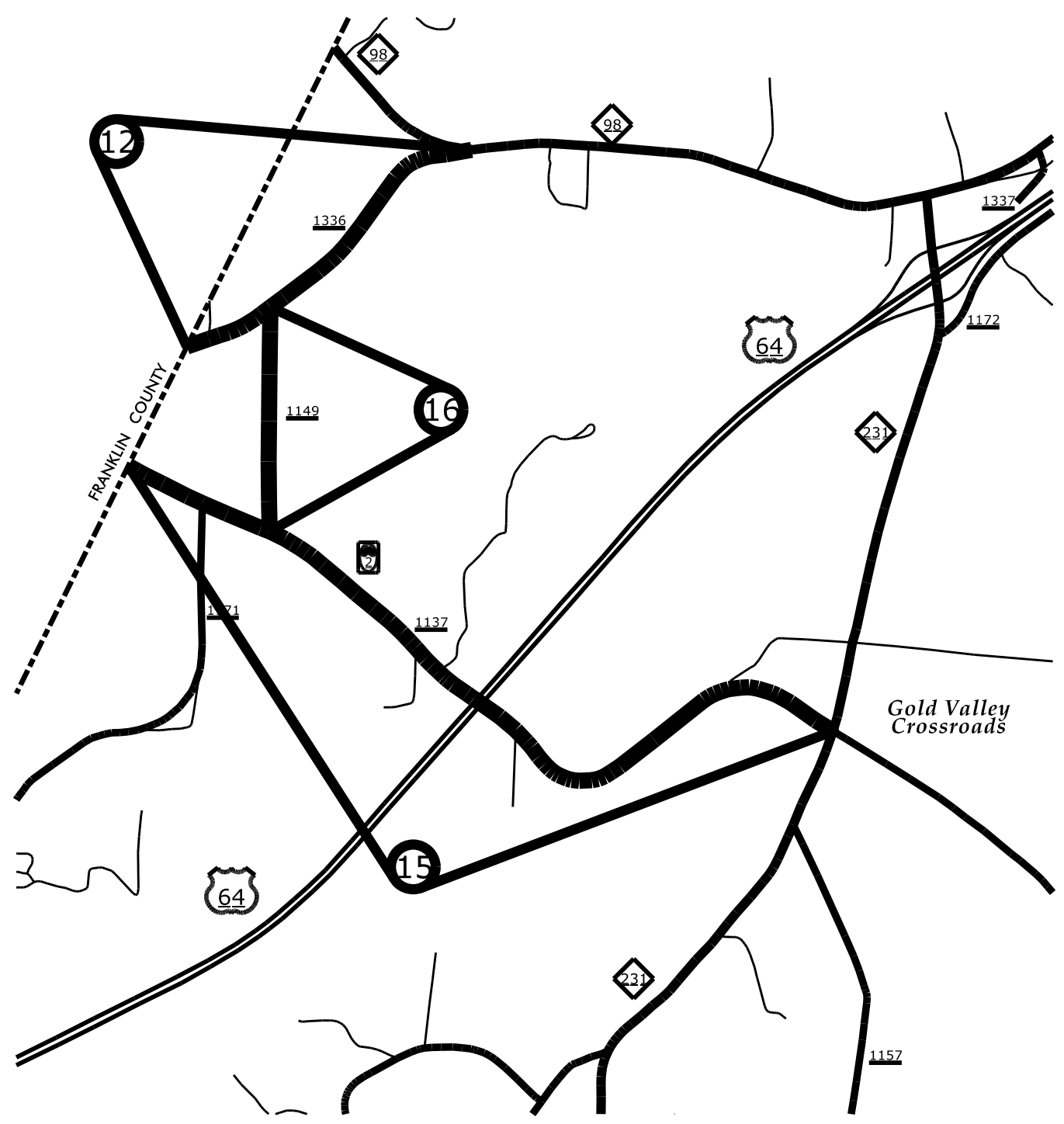
PROJECT NUMBER	SHEET #
2016CPT.04.03.10641.1, ETC	3



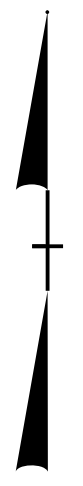
NASH COUNTY



PROJECT NUMBER	SHEET #
2016CPT.04.03.10641.1, ETC	4



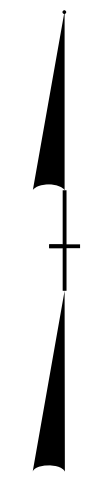
NASH COUNTY



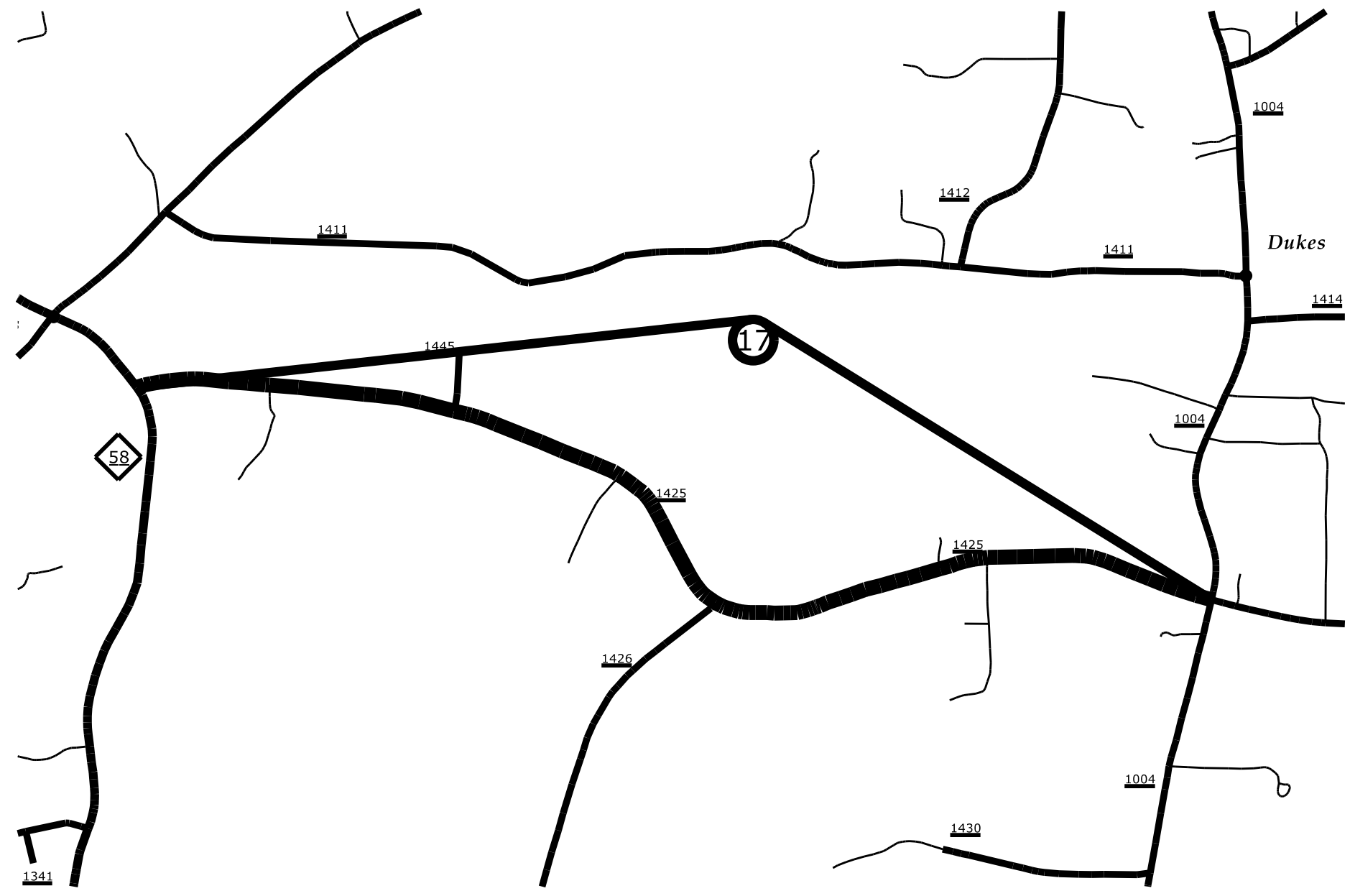
PROJECT NUMBER	SHEET #
2016CPT.04.03.10641.1, ETC	5



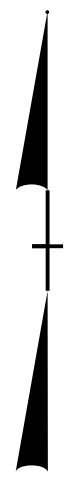
NASH COUNTY



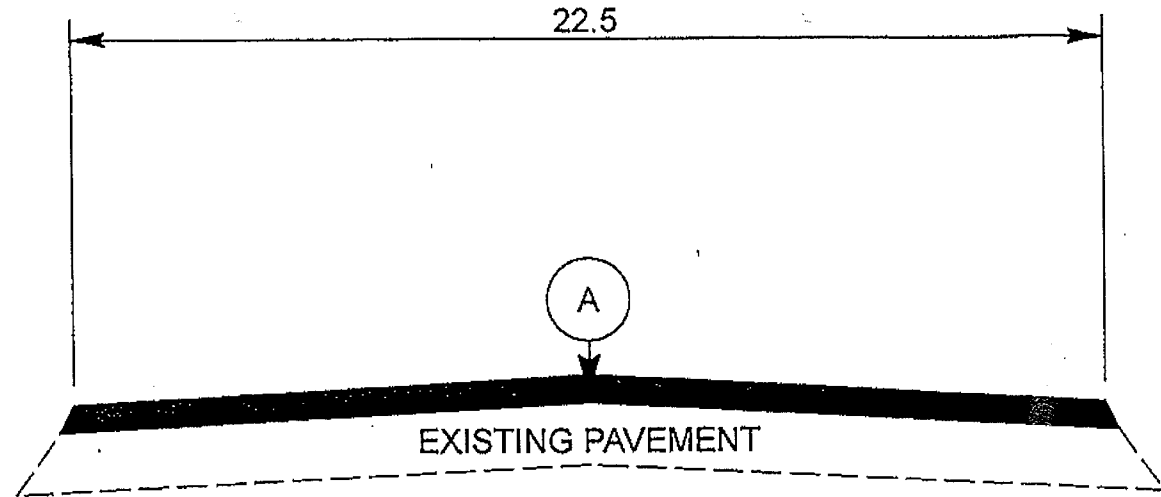
PROJECT NUMBER	SHEET #
2016CPT.04.03.10641.1, ETC	6



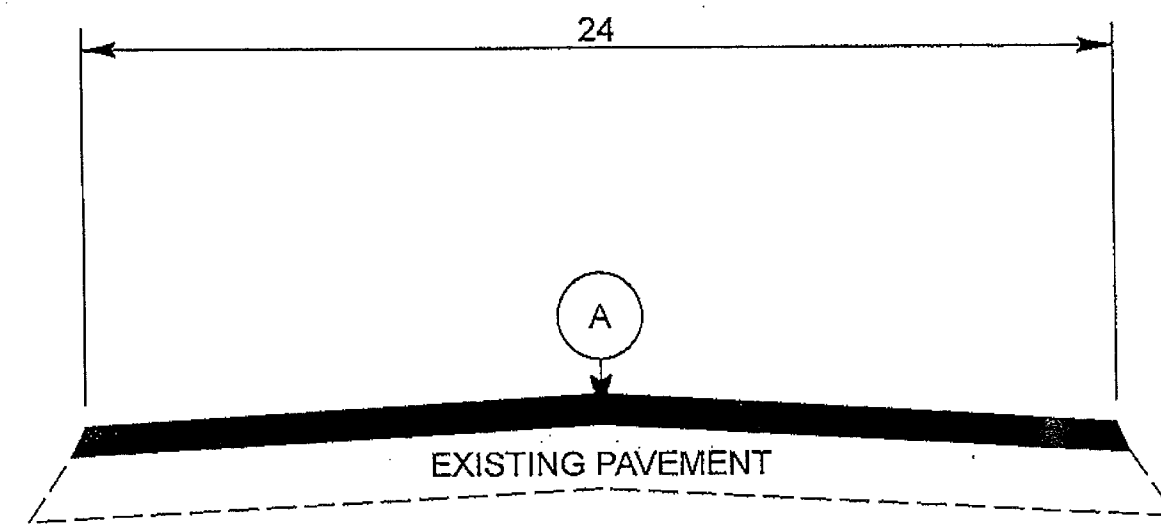
NASH COUNTY



PROJECT NO.	SHEET NO.	TOTAL SHEETS
2016CPT.04.03.20641.1, 2016CPT.04.03.10641.1	7	



TYPICAL SECTION NO. 1

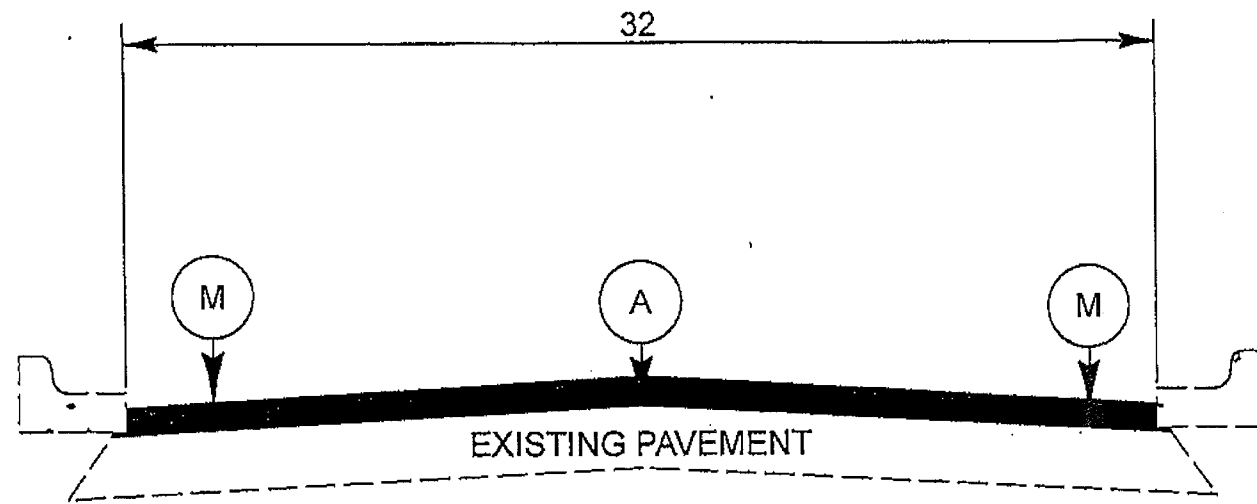


TYPICAL SECTION NO. 2

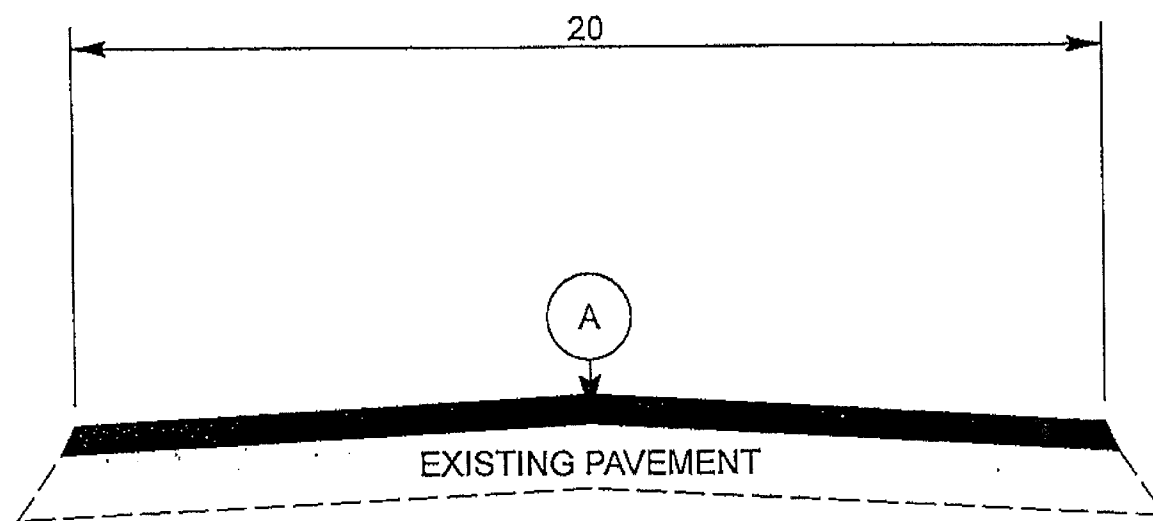
PAVEMENT SCHEDULE	
A	1.25" ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A AT AN AVERAGE RATE OF 138 LBS PER SQUARE YARD
B	1.50" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B AT AN AVERAGE RATE OF 168 LBS PER SQUARE YARD
D	4" OF ASPHALT CONCRETE BASE COURSE TYPE B25.0B AT AN AVERAGE RATE OF 456 LBS PER SQ. YARD
M	1.25" MILLING
M1	1.50" MILLING
W	WIDENING 2'
W1	1' FOOT WIDENING



PROJECT NO.	SHEET NO.	TOTAL SHEETS
2016CPT.04.03.20641.1, 2016CPT.04.03.10641.1	8	

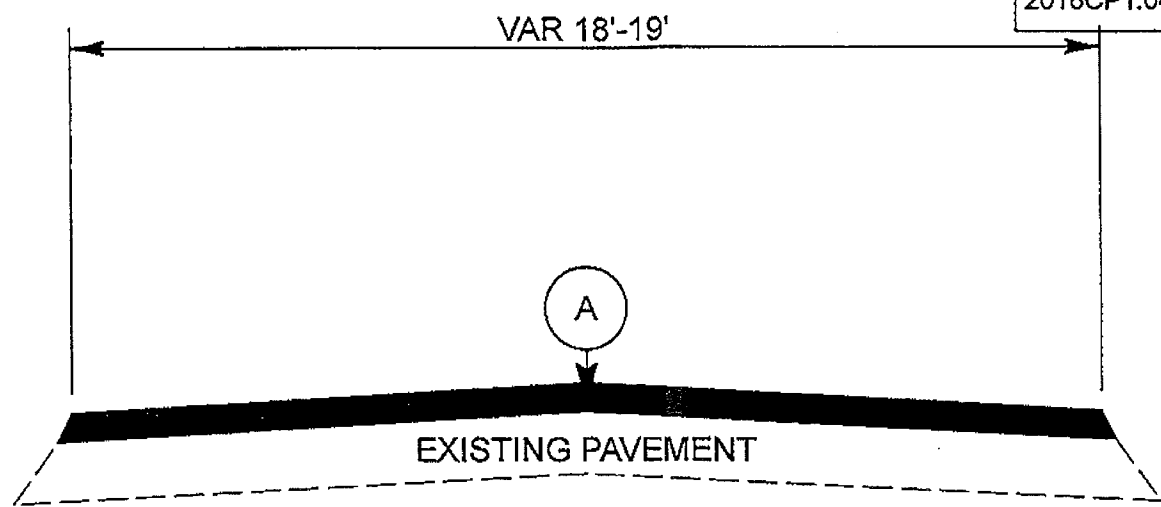


TYPICAL SECTION NO. 3

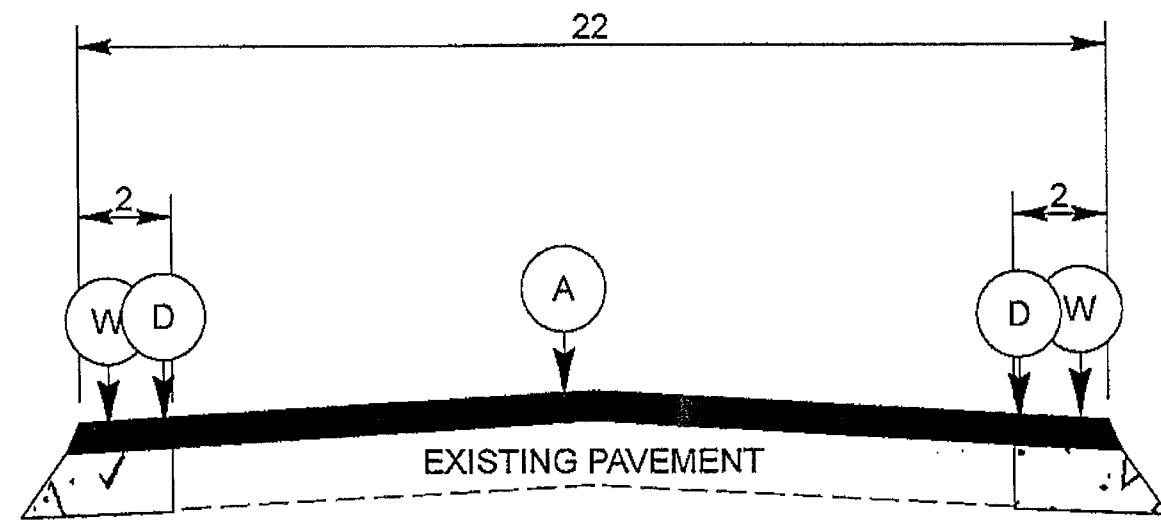


TYPICAL SECTION NO. 4

PROJECT NO.	SHEET NO.	TOTAL SHEETS
2016CPT.04.03.20641.1, 2016CPT.04.03.10641.1	9	

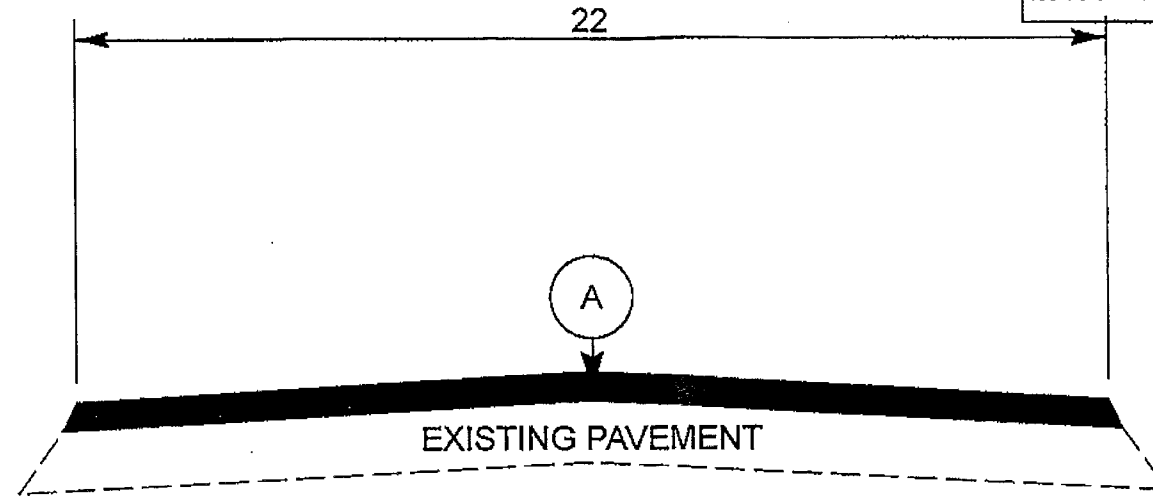


TYPICAL SECTION NO. 5

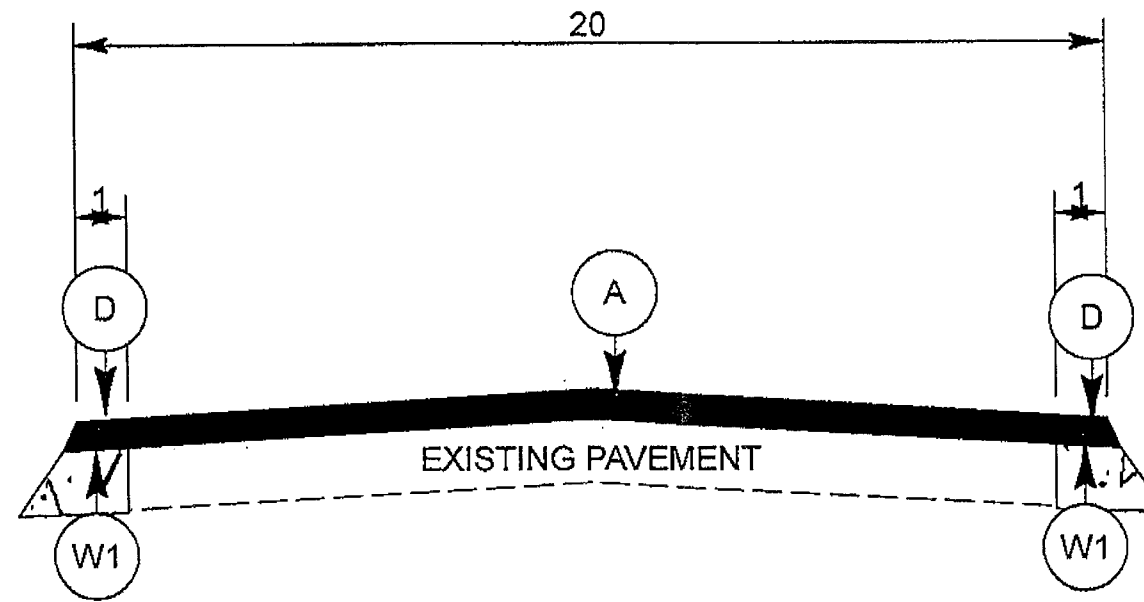


TYPICAL SECTION NO. 6

PROJECT NO.	SHEET NO.	TOTAL SHEETS
2016CPT.04.03.20641.1, 2016CPT.04.03.10641.1	10	

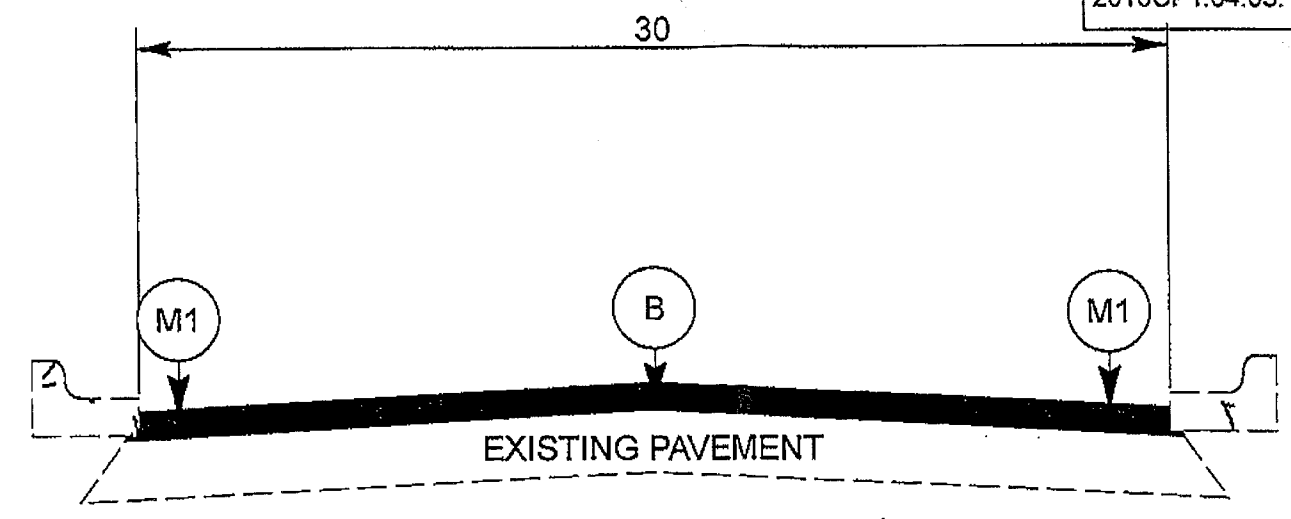


TYPICAL SECTION NO. 7

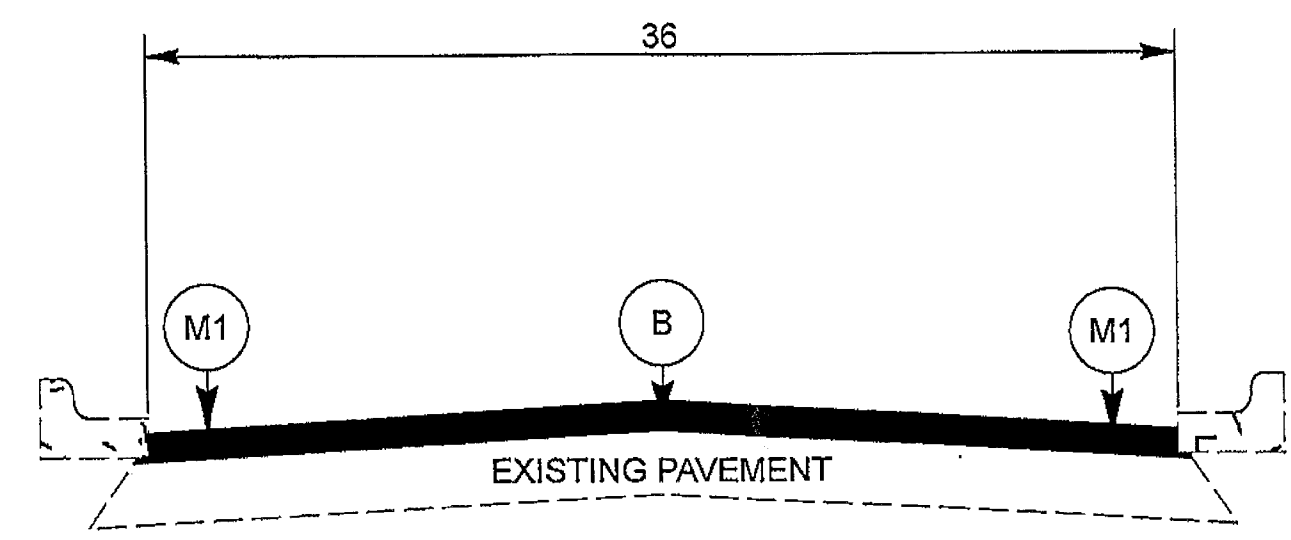


TYPICAL SECTION NO. 8

PROJECT NO.	SHEET NO.	TOTAL SHEETS
2016CPT.04.03.20641.1, 2016CPT.04.03.10641.1	11	

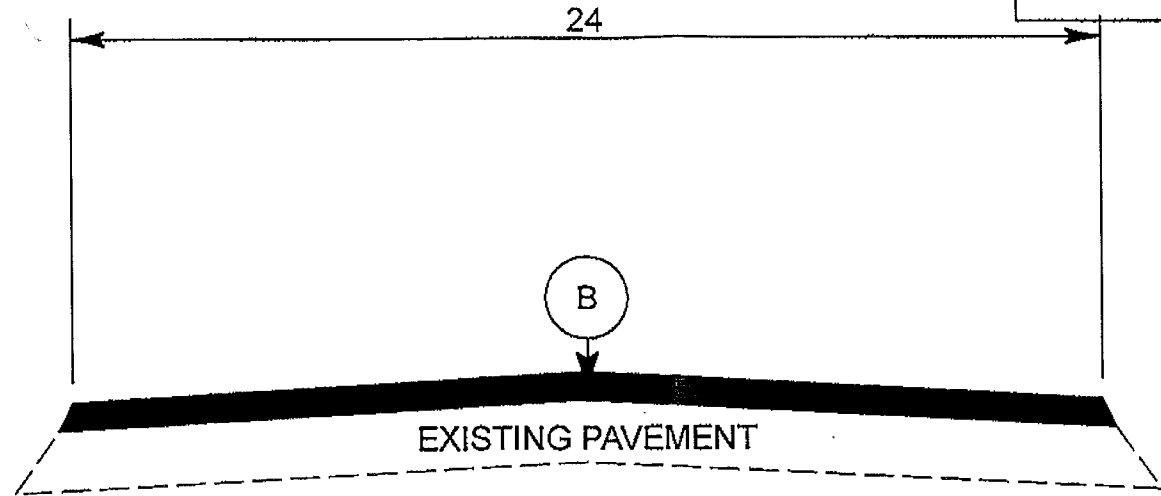


TYPICAL SECTION NO. 9

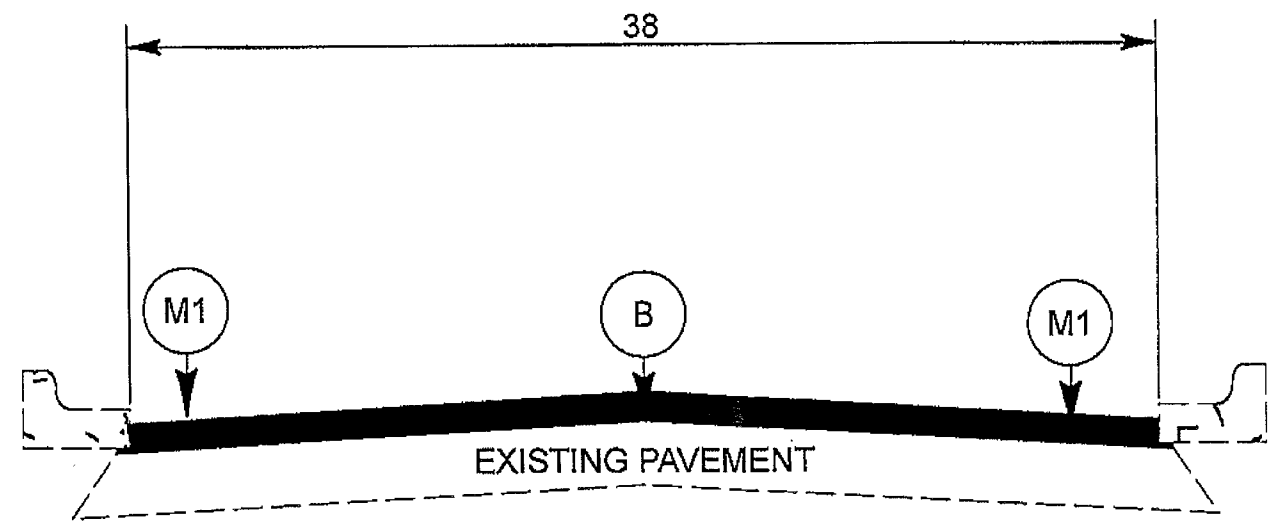


TYPICAL SECTION NO. 10

PROJECT NO.	SHEET NO.	TOTAL SHEETS
2016CPT.04.03.20641.1, 2016CPT.04.03.10641.1	12	

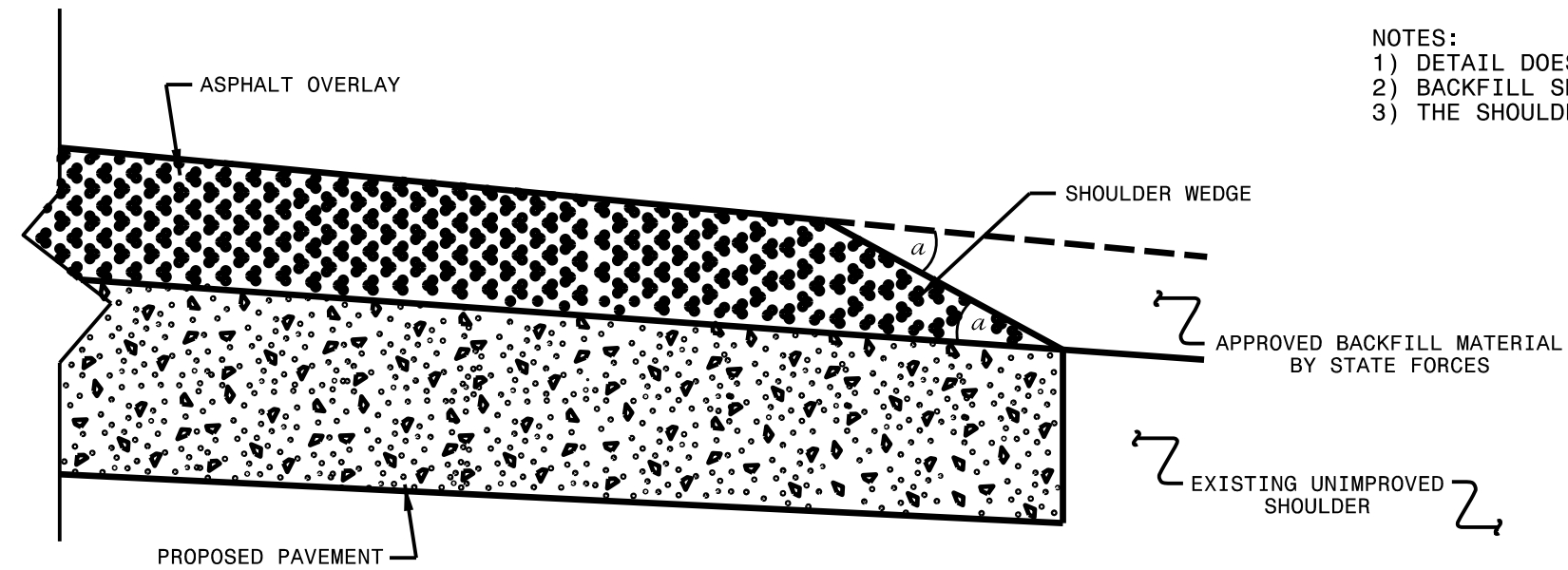


TYPICAL SECTION NO. 11

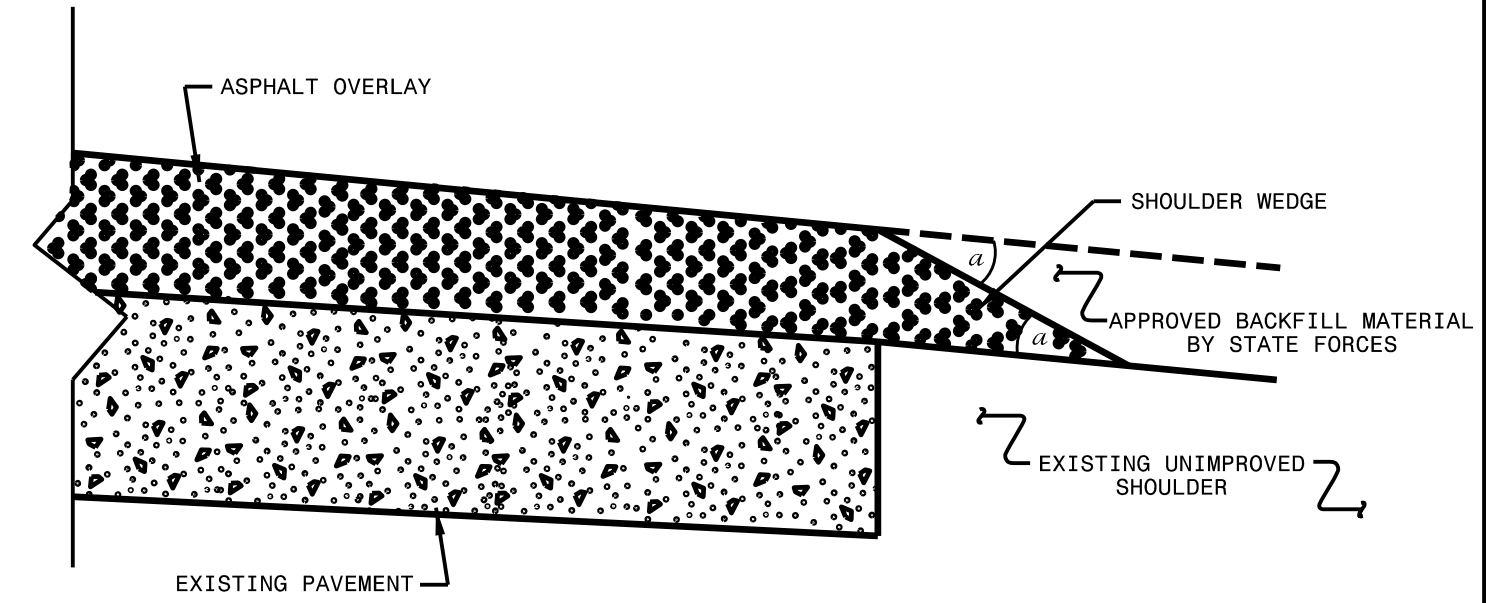


TYPICAL SECTION NO. 12

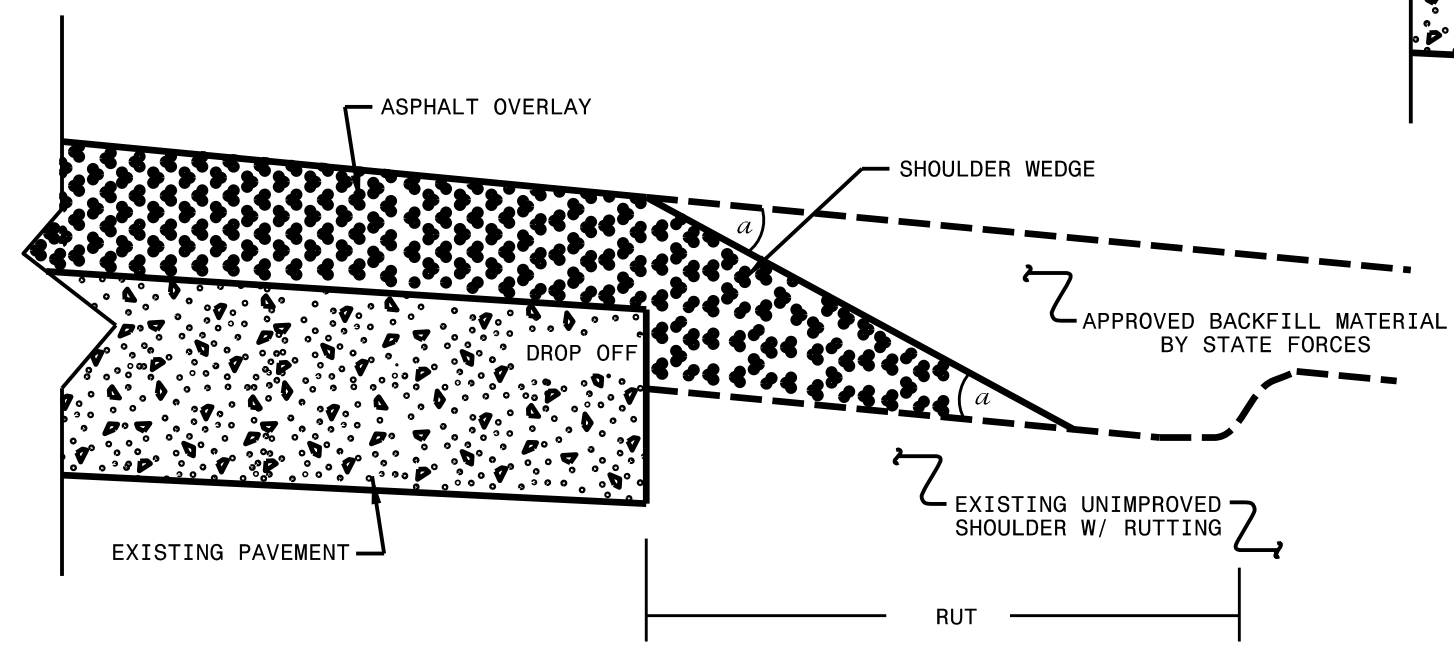
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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

\$\$\$\$SYTIME\$\$\$\$  
 \$\$\$USERNAME\$\$\$

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.04.03.10641.1, ETC	14	

## 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	1.25" MILLING SY	1½" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOXES EA
2016CPT.04.03.10641.1	Nash	1	US 64 BUS EAST	FROM BUCK LEONARD BLVD TO RXR TRACKS	9	2	MU	NO	NO	2.4	30		50,000			4,213		253	1	3
2016CPT.04.03.10641.1	Nash	2	US 64 BUS WEST	FROM BUCK LEONARD BLVD TO RXR TRACKS	10	2	MU	NO	NO	2.3	36		55,000			4,614		277		
2016CPT.04.03.10641.1	Nash	3	US 64 ALTERNATE	FROM SR 1909 (OLD COUNTY HOME RD) TO EAST SPRING HOPE CITY LIMITS	11	2	2WU	NO	NO	3.2	24			500		4,054		243		
2016CPT.04.03.10641.1	Nash	4	US 301 BUSINESS	FROM JOINT NORTH OF KINGSTON AVENUE TO RXR TRACKS	12	2	MU	NO	NO	1.963	38		45,000			3,788		227	1	1
<b>TOTAL FOR PROJ NO. 2016CPT.04.03.10641.1</b>										<b>7.563</b>			<b>150,000</b>	<b>500</b>		<b>16,669</b>		<b>1,000</b>	<b>2</b>	<b>4</b>

2016CPT.04.03.20641.1	Nash	5	SR 1713 OLD MILL ROAD	FROM JOINT 1000 FEET EAST OF SR 1714 TO US 301	1	2		NO	NO	1.16	22.5						1,100	74	1	2
2016CPT.04.03.20641.1	Nash	6	SR 1717 MACADEONIA ROAD	FROM NC 581 TO SR 1001	2	2		NO	NO	5.8	24						6,039	405		
2016CPT.04.03.20641.1	Nash	7	SR 1714 OLD NASHVILLE ROAD	FROM TAR RIVER BRIDGE TO NC 97	3	2		NO	NO	0.57	32	12,096					838	56		
2016CPT.04.03.20641.1	Nash	8	SR 1601 REGES STORE ROAD	FROM SR 1003 TO SR 1603	4	2		NO	NO	1.86	20						1,583	106		
2016CPT.04.03.20641.1	Nash	9	SR 1609 GREEN HILLS ROAD	FROM SR 1603 TO SR 1604	4	2		NO	NO	1.65	20						1,638	110	1	1
2016CPT.04.03.20641.1	Nash	10	SR 1904 ERKIN SMITH ROAD	FROM SR 1900 TO SR 1145	4	2		NO	NO	1.4	20						1,135	76		
2016CPT.04.03.20641.1	Nash	11	SR 1534 HARRISONTOWN ROAD	FROM SR 1544 TO SR 1589	4	2		NO	NO	1.1	20						892	60		
2016CPT.04.03.20641.1	Nash	12	SR 1336 OLD US 64	FROM NC 98 TO FRANKLIN COUNTY LINE	7	2		NO	NO	0.93	22						879	59		
2016CPT.04.03.20641.1	Nash	13	SR 1746 BRASWELL ROAD	FROM SR 1745 TO DEAD END	4	2		NO	NO	0.72	20						584	39		
2016CPT.04.03.20641.1	Nash	14	SR 1802 BONE POND ROAD	FROM SR 1703 TO DEAD END	4	2		NO	NO	0.53	20						430	29		
2016CPT.04.03.20641.1	Nash	15	SR 1137 FRAZIER ROAD	FROM NC 231 TO FRANKLIN COUNTY LINE	8	2		NO	NO	2.13	20			150	665		1,802	151		
2016CPT.04.03.20641.1	Nash	16	SR 1149 WORTH ROAD	FROM SR 1336 TO SR 1137	5	2		NO	NO	0.55	19						446	30		
2016CPT.04.03.20641.1	Nash	17	SR 1425 RED OAK CASTALIA ROAD	FROM NC 58 TO SR 1004	4	2		NO	NO	3.2	20			300			2,640	177		
2016CPT.04.03.20641.1	Nash	18	SR 1303 SANCTIFIED CHURCH ROAD	FROM US 64 ALT TO SR 1301	6	2		NO	NO	2.27	22				1,244		2,024	192		
<b>TOTAL FOR PROJ NO. 2016CPT.04.03.20641.1</b>										<b>23.87</b>		<b>12,096</b>		<b>450</b>	<b>1,909</b>		<b>22,030</b>	<b>1,564</b>	<b>2</b>	<b>3</b>
<b>GRAND TOTAL</b>										<b>31.433</b>		<b>12,096</b>	<b>150,000</b>	<b>950</b>	<b>1,909</b>	<b>16,669</b>	<b>22,030</b>	<b>2,564</b>	<b>4</b>	<b>7</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.04.03.10641.1, ETC	15	

## THERMOPLASTIC AND PAINT QUANTITIES

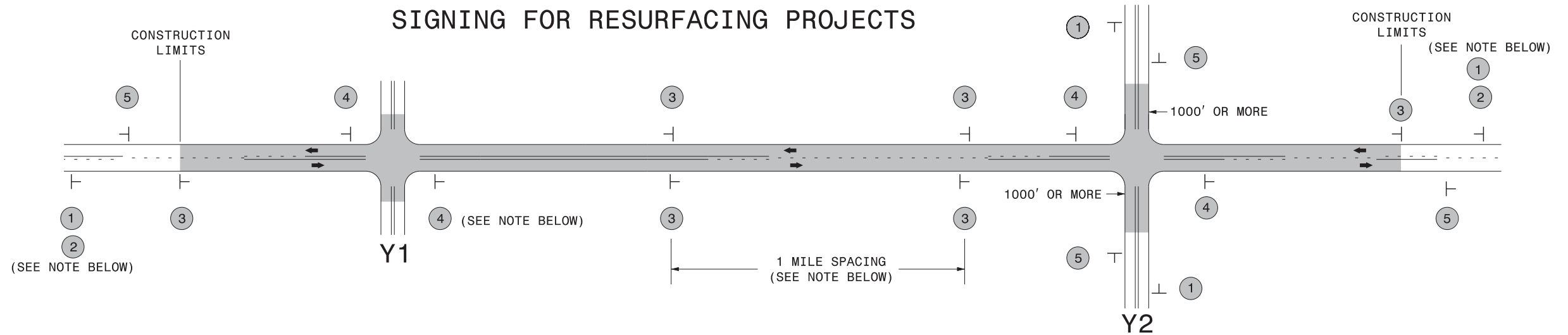
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-	4457000000-N	4810000000-E		48150000	4820000000-E		483000	4835000	4840000000-N		4845000000-N		
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS	4" WHITE PAINT LF	4" YELLOW PAINT LF	6" WHITE PAINT LF	8" WHITE PAINT LF	8" YELLOW PAINT LF	16" WHITE PAINT LF	24" WHITE PAINT LF	PAINT MSG RXR EA	PAINT MSG ONLY EA	PAINT STR & RT ARROW EA	PAINT STR ARROW EA	PAINT RT ARROW EA
2016CPT.04.03.10641.1	Nash	1	US 64 BUS EAST	FROM BUCK LEONARD BLVD TO RXR TRACKS	9	2	MU	2.4	30	182		10,840		1,440	1,000		575	1,160	8	24	50	50	40
2016CPT.04.03.10641.1	Nash	2	US 64 BUS WEST	FROM BUCK LEONARD BLVD TO RXR TRACKS	10	2	MU	2.3	36	182		2,000		900	1,000			775		20	36	55	48
2016CPT.04.03.10641.1	Nash	3	US 64 ALTERNATE	FROM SR 1909 (OLD COUNTY HOME RD) TO EAST SPRING HOPE CITY LIMITS	11	2	2WU	3.2	24	214		68,864	42,240										
2016CPT.04.03.10641.1	Nash	4	US 301 BUSINESS	FROM JOINT NORTH OF SR 1727 (KINGSTON AVE) TO RXR TRACKS	12	2	MU	1.963	38	216		400	42,508		560	100	350			20	4	140	
<b>TOTAL FOR PROJ NO. 2016CPT.04.03.10641.1</b>										<b>794</b>		<b>82,104</b>	<b>84,748</b>	<b>2,340</b>	<b>2,000</b>	<b>560</b>	<b>675</b>	<b>2,285</b>	<b>8</b>	<b>44</b>	<b>106</b>	<b>109</b>	<b>228</b>
												<b>166,852</b>			<b>2,560</b>			<b>52</b>		<b>443</b>			

2016CPT.04.03.20641.1	Nash	5	SR 1713 OLD MILL ROAD	FROM JOINT 1000 FEET EAST OF SR 1714 TO US 301	1	2		1.16	22.5	150																	
2016CPT.04.03.20641.1	Nash	6	SR 1717 MACADEONIA ROAD	FROM NC 581 TO SR 1001	2	2		5.8	24	278																	
2016CPT.04.03.20641.1	Nash	7	SR 1714 OLD NASHVILLE ROAD	FROM TAR RIVER BRIDGE TO NC 97	3	2		0.57	32	118																	
2016CPT.04.03.20641.1	Nash	8	SR 1601 REGES STORE ROAD	FROM SR 1003 TO SR 1603	4	2		1.86	20	150																	
2016CPT.04.03.20641.1	Nash	9	SR 1609 GREEN HILLS ROAD	FROM SR 1603 TO SR 1604	4	2		1.65	20	150																	
2016CPT.04.03.20641.1	Nash	10	SR 1904 ERKIN SMITH ROAD	FROM SR 1900 TO SR 1145	4	2		1.4	20	150																	
2016CPT.04.03.20641.1	Nash	11	SR 1534 HARRISONTOWN ROAD	FROM SR 1544 TO SR 1589	4	2		1.1	20	150																	
2016CPT.04.03.20641.1	Nash	12	SR 1336 OLD US 64	FROM NC 98 TO FRANKLIN COUNTY LINE	7	2		0.93	22	118																	
2016CPT.04.03.20641.1	Nash	13	SR 1746 BRASWELL ROAD	FROM SR 1745 TO DEAD END	4	2		0.72	20	118																	
2016CPT.04.03.20641.1	Nash	14	SR 1802 BONE POND ROAD	FROM SR 1703 TO DEAD END	4	2		0.53	20	118																	
2016CPT.04.03.20641.1	Nash	15	SR 1137 FRAZIER ROAD	FROM NC 231 TO FRANKLIN COUNTY LINE	8	2		2.13	20	214																	
2016CPT.04.03.20641.1	Nash	16	SR 1149 WORTH ROAD	FROM SR 1336 TO SR 1137	5	2		0.55	19	150																	
2016CPT.04.03.20641.1	Nash	17	SR 1425 RED OAK CASTALIA ROAD	FROM NC 58 TO SR 1004	4	2		3.2	20	246																	
2016CPT.04.03.20641.1	Nash	18	SR 1303 SANCTIFIED CHURCH ROAD	FROM US 64 ALT TO SR 1301	6	2		2.27	22																		
<b>TOTAL FOR PROJ NO. 2016CPT.04.03.20641.1</b>										<b>2,110</b>																	
<b>GRAND TOTAL</b>												<b>31.433</b>		<b>2,904</b>	<b>1</b>	<b>82,104</b>	<b>84,748</b>	<b>2,340</b>	<b>2,000</b>	<b>560</b>	<b>675</b>	<b>2,285</b>	<b>8</b>	<b>44</b>	<b>106</b>	<b>109</b>	<b>228</b>
												<b>166,852</b>			<b>2,560</b>			<b>52</b>		<b>443</b>							

Secondary maps will be painted by Division Traffic Services.



## SIGNING FOR RESURFACING PROJECTS



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

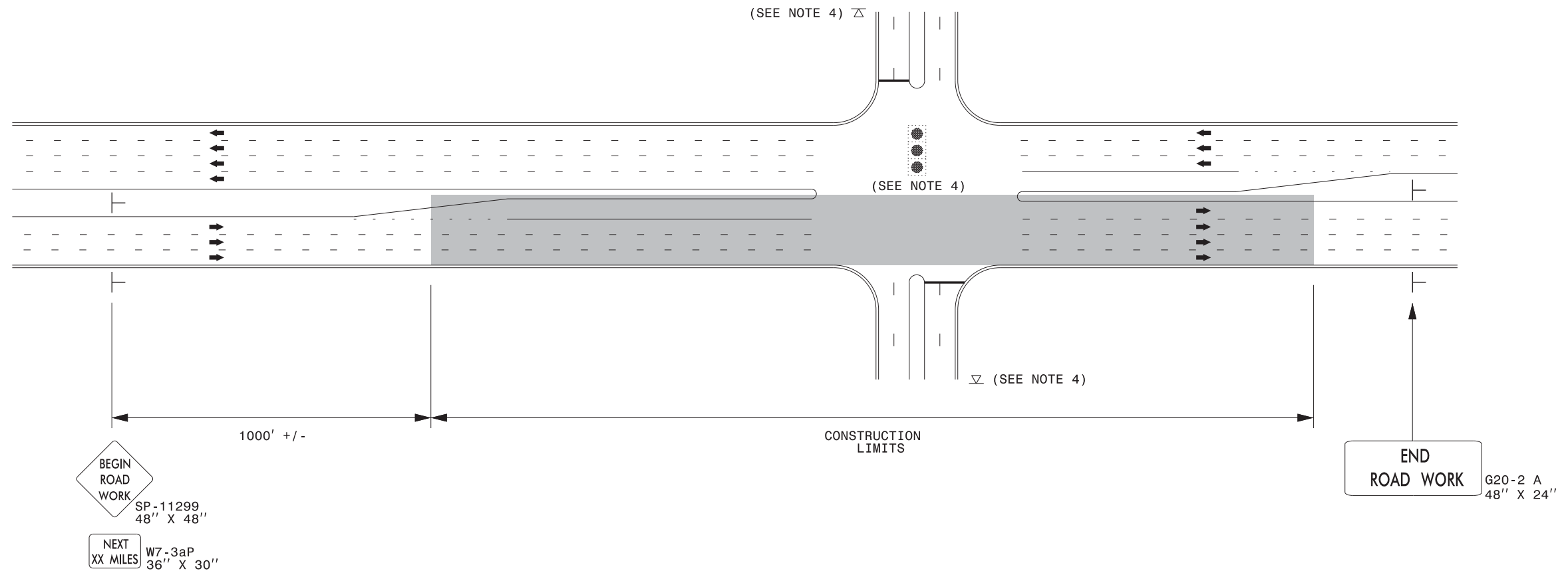
### -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p style="text-align: center;"><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) 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; align-items: center;"> <div style="text-align: center;">   <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small> </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3	 <small>SP 13107 48" X 48"</small>	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 <small>SP 13106 48" X 48"</small>	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	
5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		



**RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS**

## 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



**RESURFACING ADVANCE  
WARNING SIGNS FOR  
URBAN / SUBURBAN  
FACILITIES**