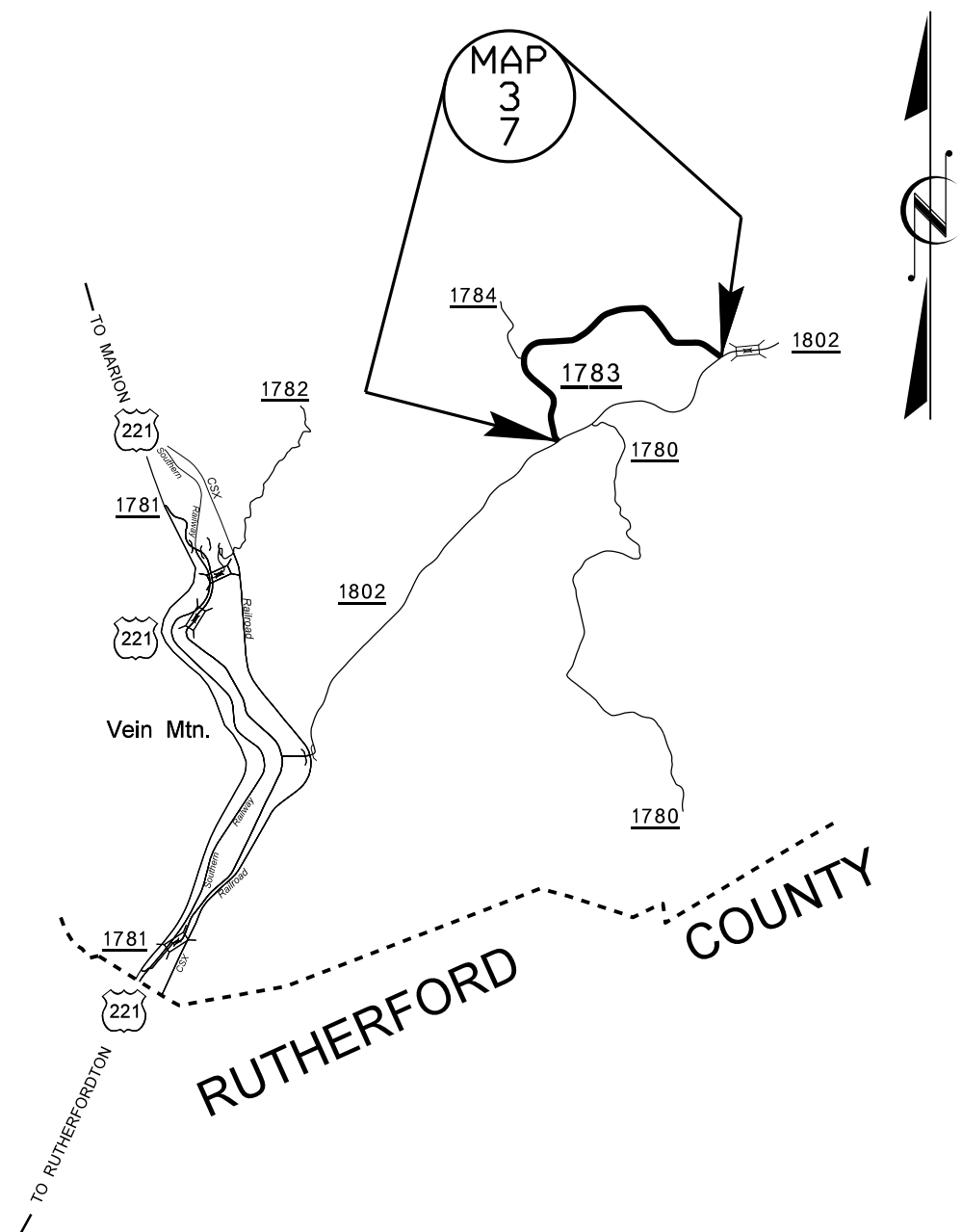
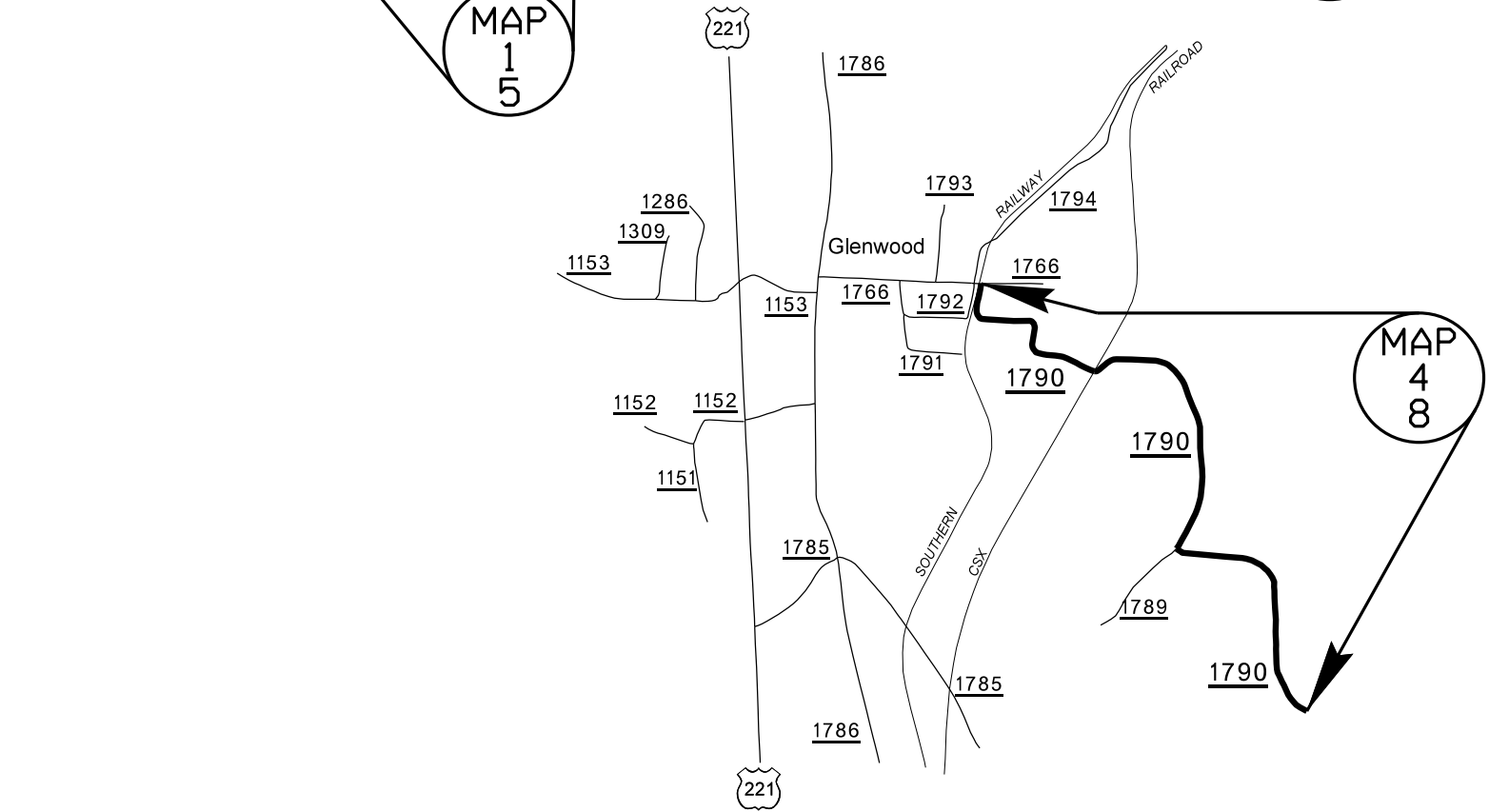
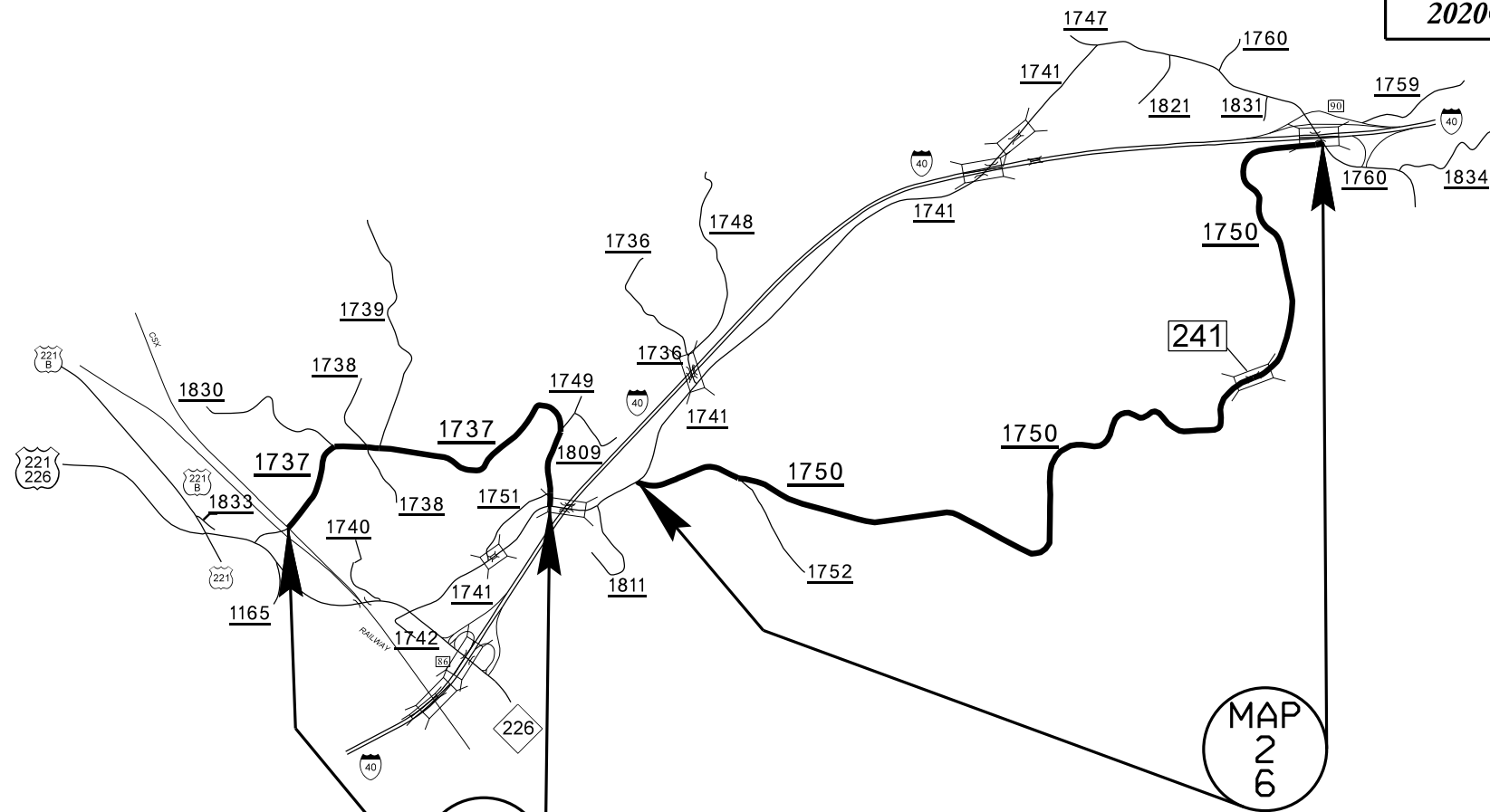


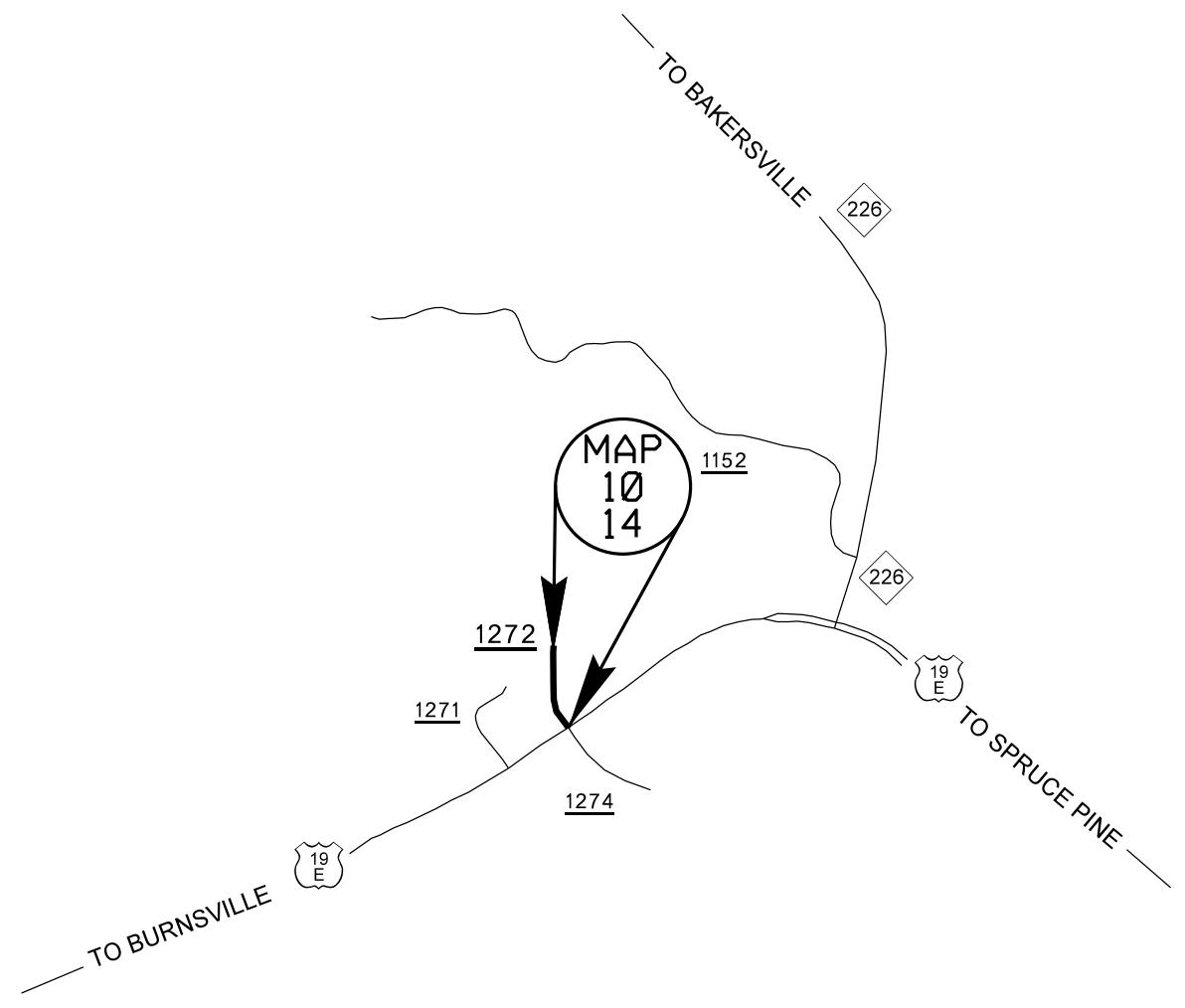
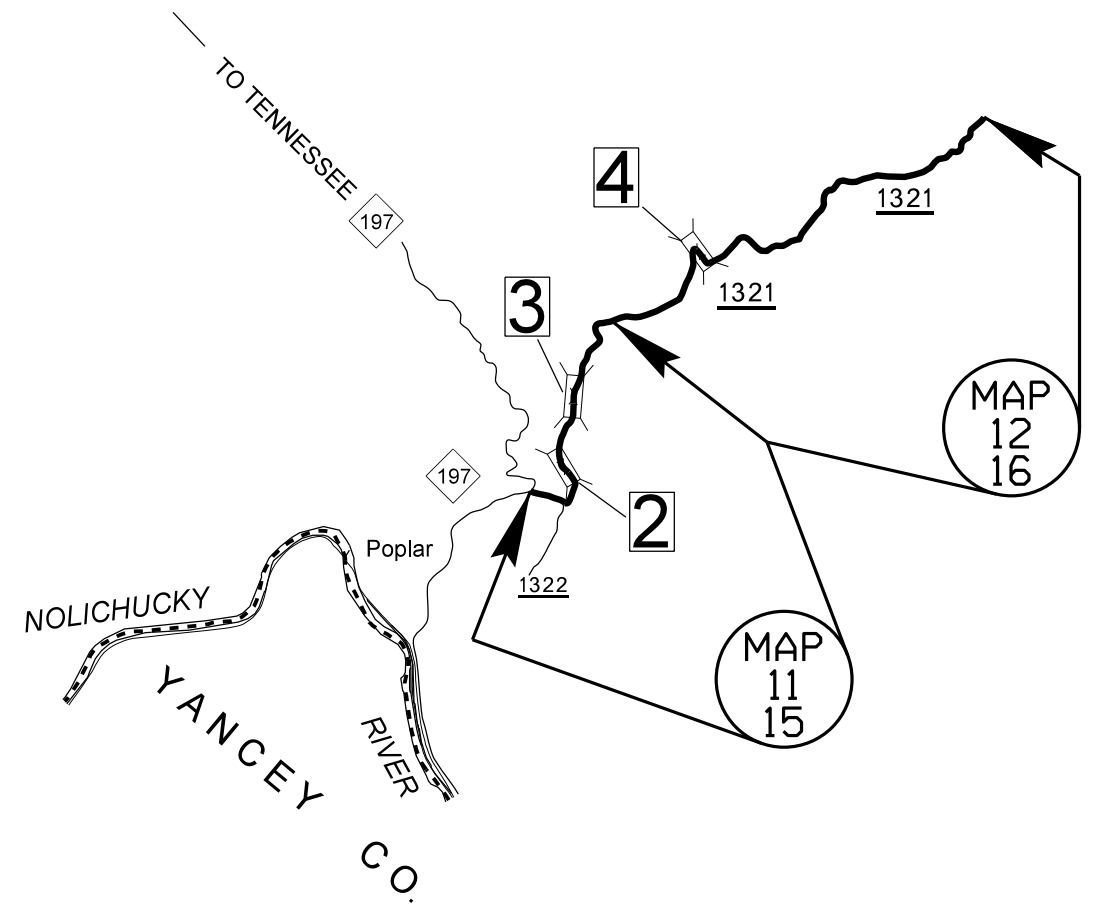
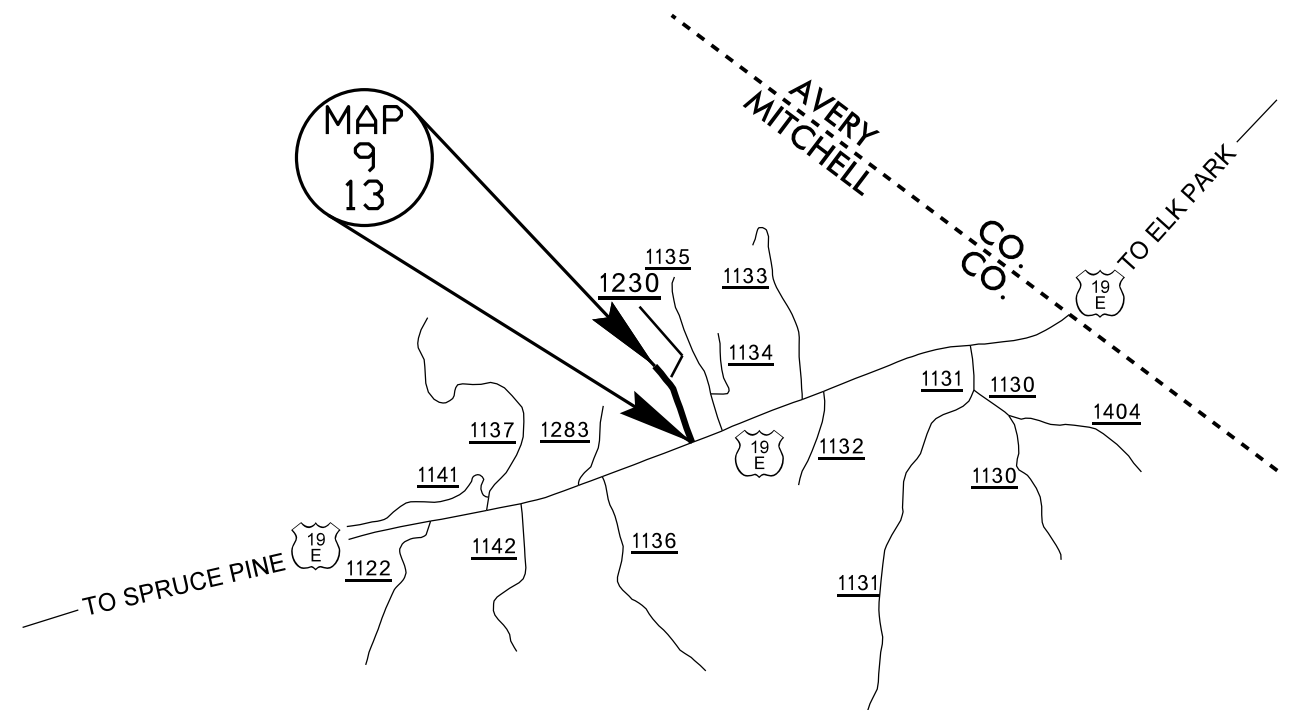
PROJECT NO.	SHEET NO.	TOTAL SHEETS
2020CPT.13.04.20591, 2020CPT.13.04.20592 2020CPT.13.05.20611, 2020CPT.13.05.20612	1	10



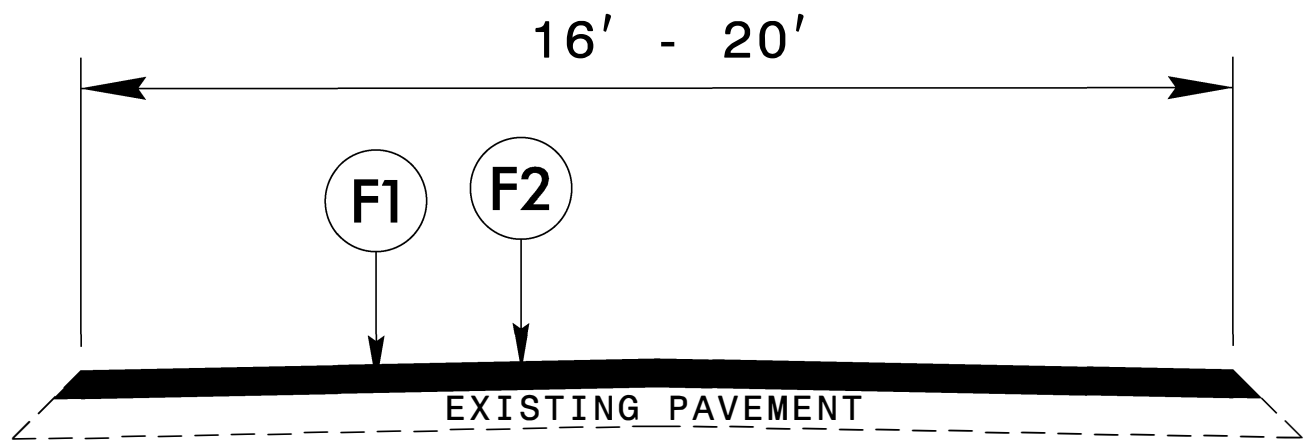
McDOWELL COUNTY



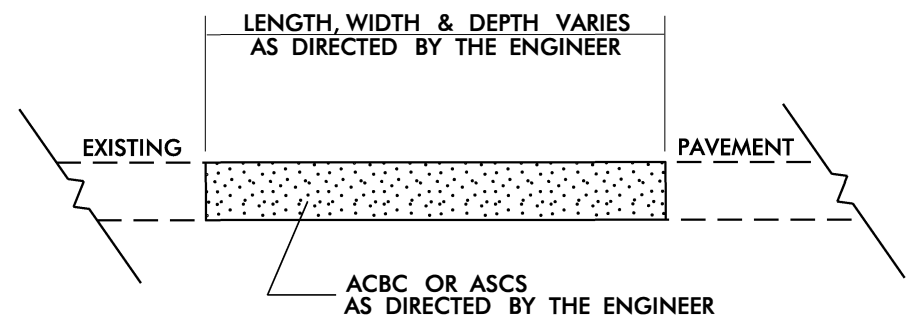
PROJECT NO.	SHEET NO.	TOTAL SHEETS
2020CPT.13.04.20591, 2020CPT.13.04.20592 2020CPT.13.05.20611, 2020CPT.13.05.20612	2	10



MITCHELL COUNTY



TYPICAL SECTION #1



PATCHING EXISTING PAVEMENT

PAVEMENT SCHEDULE	
F1	PROPOSED ASPHAL SURFACE TREATMENT, DOUBLE SEAL
F2	PROPOSED ASPHALT SURFACE TREATMENT, FOG SEAL

6/2/99
 02-OCT-2018 10:07
 SA\TDD\Resurfacing\2020 Resurfacing\McDowell\Mitchell_PP_TYP.dgn
 SA\TDD\Resurfacing\2020 Resurfacing\McDowell\Mitchell_PP_TYP.dgn

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.04.20591, 2020CPT.13.04.20592, 2020CPT.13.05.20611, 2020CPT.13.05.20612	4	10

SUMMARY OF QUANTITIES

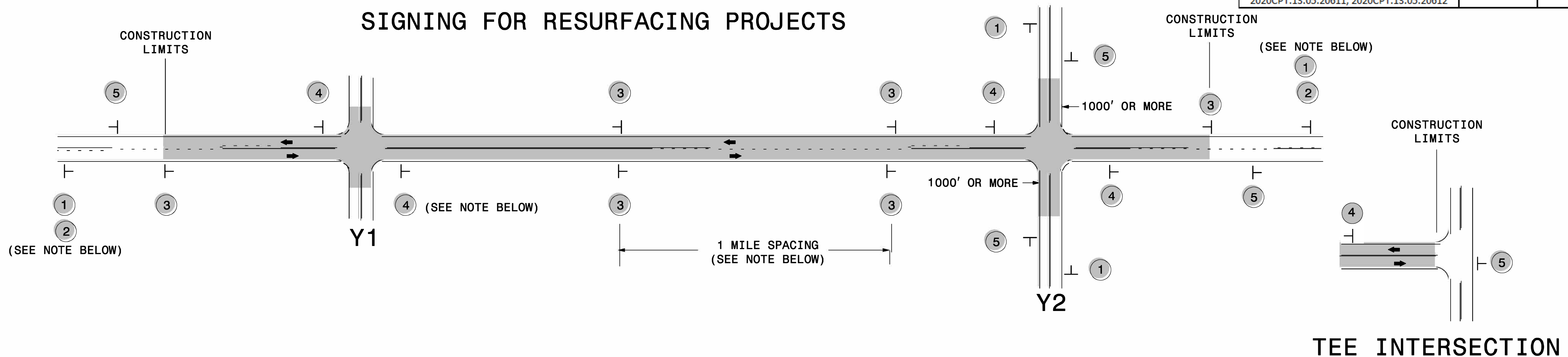
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1704000000-E	1803500000-E	1820000000-E	1838000000-E	1838500000-N		
												PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT, FOG SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK		
											MI	FT	TON	SY	SY	GAL	WK	
2020CPT.13.04.20591	McDowell	1	SR 1737	FROM RR CROSSING TO SR 1741 (MP 0.110 - MP 1.643)		2	2WU	NO	NO	1.533	18	300						
2020CPT.13.04.20591	McDowell	2	SR 1750	FROM SR 1760 TO SR 1741 (MP 0.00 - MP SR 3.779)		2	2WU	NO	NO	3.779	19	600						
2020CPT.13.04.20591	McDowell	3	SR 1783	FROM SR 1802 TO SR 1802 (MP 0.00 - MP 1.814)		2	2WU	NO	NO	1.814	19	230						
2020CPT.13.04.20591	McDowell	4	SR 1790	FROM SR 1766 TO END MAINT (MP 0.00 - MP 1.831)		2	2WU	NO	NO	1.831	18	150						
TOTAL FOR PROJ NO. 2020CPT.13.04.20591											8.957		1,280					
2020CPT.13.04.20592	McDowell	5	SR 1737	FROM RR CROSSING TO SR 1741 (MP 0.110 - MP 1.643)	1	2	2WU	NO	NO	1.533	18		16,188	16,188	8,904			
2020CPT.13.04.20592	McDowell	6	SR 1750	FROM SR 1760 TO SR 1741 (MP 0.00 - MP 3.779)	1	2	2WU	NO	NO	3.779	19		42,123	42,123	23,168	4.00		
2020CPT.13.04.20592	McDowell	7	SR 1783	FROM SR 1802 TO SR 1802 (MP 0.00 - MP 1.814)	1	2	2WU	NO	NO	1.814	19		20,220	20,220	11,121			
2020CPT.13.04.20592	McDowell	8	SR 1790	FROM SR 1766 TO END MAINT (MP 0.00 - MP 1.831)	1	2	2WU	NO	NO	1.831	18		19,335	19,335	10,634			
TOTAL FOR PROJ NO. 2020CPT.13.04.20592											8.957			97,866	97,866	53,827	4.00	
2020CPT.13.05.20611	Mitchell	9	SR 1230	FROM US 19 TO END MAINT (MP 0.00 - MP 0.220)		2	2WU	NO	NO	0.22	16	25						
2020CPT.13.05.20611	Mitchell	10	SR 1272	FROM US 19 TO DEAD END (MP 0.00 - MP 0.112)		2	2WU	NO	NO	0.112	20	25						
2020CPT.13.05.20611	Mitchell	11	SR 1321	FROM NC 197 TO PVMT CHG (MP 0.00 - MP 1.400)		2	2WU	NO	NO	1.4	20	275						
2020CPT.13.05.20611	Mitchell	12	SR 1321	FROM PVMT CHG TO DEAD END (MP 1.400 - MP 3.590)		2	2WU	NO	NO	2.19	20	425						
TOTAL FOR PROJ NO. 2020CPT.13.05.20611											3.922		750					
2020CPT.13.05.20612	Mitchell	13	SR 1230	FROM US 19 TO END MAINT. (MP 0.00 - MP 0.220)	1	2	2WU	NO	NO	0.22	16		2,065	2,065	1,136			
2020CPT.13.05.20612	Mitchell	14	SR 1272	FROM US 19 TO DEAD END (MP 0.00 - MP 0.112)	1	2	2WU	NO	NO	0.112	20		1,314	1,314	723	3.00		
2020CPT.13.05.20612	Mitchell	15	SR 1321	FORM NC 197 TO PVMT CHG (MP 0.00 - MP 1.400)	1	2	2WU	NO	NO	1.4	20		16,427	16,427	9,035			
2020CPT.13.05.20612	Mitchell	16	SR 1321	FROM PVMT CHG TO DEAD END (MP 1.40 - MP 3.59)	1	2	2WU	NO	NO	2.19	20		25,696	25,696	14,133			
TOTAL FOR PROJ NO. 2020CPT.13.05.20612											3.922		45,502	45,502	25,027	3.00		
GRAND TOTAL											25.758		2,030	143,368	143,368	78,854	7.00	

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.04.20591, 2020CPT.13.04.20592, 2020CPT.13.05.20611, 2020CPT.13.05.20611	5	10

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4705000000-E	4710000000-E	4721000000-E	4810000000-E	4810000000-E			
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS) RXR	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW			
									MI	FT	SF	LS	LF	LF	EA	LF	LF		
2020CPT.13.04.20591	McDowell	1	SR 1737	FROM RR CROSSING TO SR 1741 (MP 0.110 - MP 1.643)		2	2WU	1.533	18	1,005	*								
2020CPT.13.04.20591	McDowell	2	SR 1750	FROM SR 1760 TO SR 1741 (MP 0.00 - MP SR 3.779)		2	2WU	3.779	19										
2020CPT.13.04.20591	McDowell	3	SR 1783	FROM SR 1802 TO SR 1802 (MP 0.00 - MP 1.814)		2	2WU	1.814	19										
2020CPT.13.04.20591	McDowell	4	SR 1790	FROM SR 1766 TO END MAINT (MP 0.00 - MP 1.831)		2	2WU	1.831	18										
TOTAL FOR PROJ NO. 2020CPT.13.04.20591									8.957		1,005	*							
2020CPT.13.04.20592	McDowell	5	SR 1737	FROM RR CROSSING TO SR 1741 (MP 0.110 - MP 1.643)	1	2	2WU	1.533	18	441	*	44	30	2	32,377	32,377			
2020CPT.13.04.20592	McDowell	6	SR 1750	FROM SR 1760 TO SR 1741 (MP 0.00 - MP 3.779)	1	2	2WU	3.779	19							79,812	79,812		
2020CPT.13.04.20592	McDowell	7	SR 1783	FROM SR 1802 TO SR 1802 (MP 0.00 - MP 1.814)	1	2	2WU	1.814	19							38,312	38,312		
2020CPT.13.04.20592	McDowell	8	SR 1790	FROM SR 1766 TO END MAINT (MP 0.00 - MP 1.831)	1	2	2WU	1.831	18			88	60	4	38,671	38,671			
TOTAL FOR PROJ NO. 2020CPT.13.04.20592									8.957		132	90	6	189,172	189,172				
2020CPT.13.05.20611	Mitchell	9	SR 1230	FROM US 19 TO END MAINT (MP 0.00 - MP 0.220)		2	2WU	0.22	16	441	*								
2020CPT.13.05.20611	Mitchell	10	SR 1272	FROM US 19 TO DEAD END (MP 0.00 - MP 0.112)		2	2WU	0.112	20										
2020CPT.13.05.20611	Mitchell	11	SR 1321	FROM NC 197 TO PVMT CHG (MP 0.00 - MP 1.400)		2	2WU	1.4	20										
2020CPT.13.05.20611	Mitchell	12	SR 1321	FROM PVMT CHG TO DEAD END (MP 1.400 - MP 3.590)		2	2WU	2.19	20										
TOTAL FOR PROJ NO. 2020CPT.13.05.20611									3.922		441	*							
2020CPT.13.05.20612	Mitchell	13	SR 1230	FROM US 19 TO END MAINT. (MP 0.00 - MP 0.220)	1	2	2WU	0.22	16	441	*								
2020CPT.13.05.20612	Mitchell	14	SR 1272	FROM US 19 TO DEAD END (MP 0.00 - MP 0.112)	1	2	2WU	0.112	20							2,365	2,365		
2020CPT.13.05.20612	Mitchell	15	SR 1321	FORM NC 197 TO PVMT CHG (MP 0.00 - MP 1.400)	1	2	2WU	1.4	20							29,568	29,568		
2020CPT.13.05.20612	Mitchell	16	SR 1321	FROM PVMT CHG TO DEAD END (MP 1.40 - MP 3.59)	1	2	2WU	2.19	20							46,253	46,253		
TOTAL FOR PROJ NO. 2020CPT.13.05.20612									3.922		*			78,186	78,186				
GRAND TOTAL									25.758		1,446	1	132	90	6	267,358	267,358		

SIGNING FOR RESURFACING PROJECTS

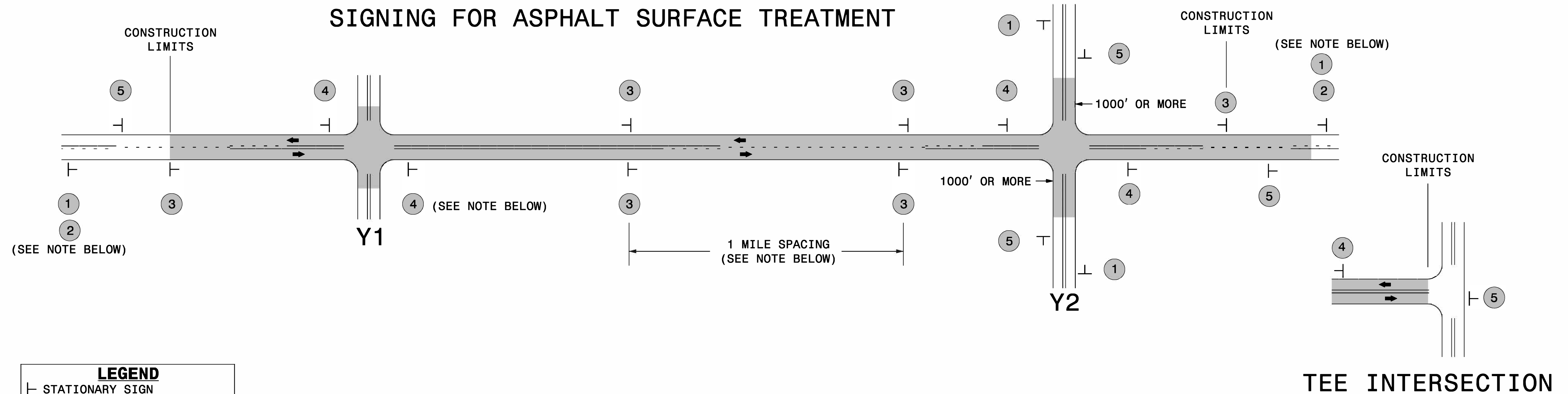


MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	2	3	4	5	
			PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<ul style="list-style-type: none"> - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p>	<p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</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)	<ul style="list-style-type: none"> - 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. 		

SIGNING FOR ASPHALT SURFACE TREATMENT



LEGEND

┆ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	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.	
	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>W8-7 48" X 48"</small>	- ALTERNATE THE FOLLOWING TWO SIGNS: - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
		 <small>SP 48" X 48"</small>		
	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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.		

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, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

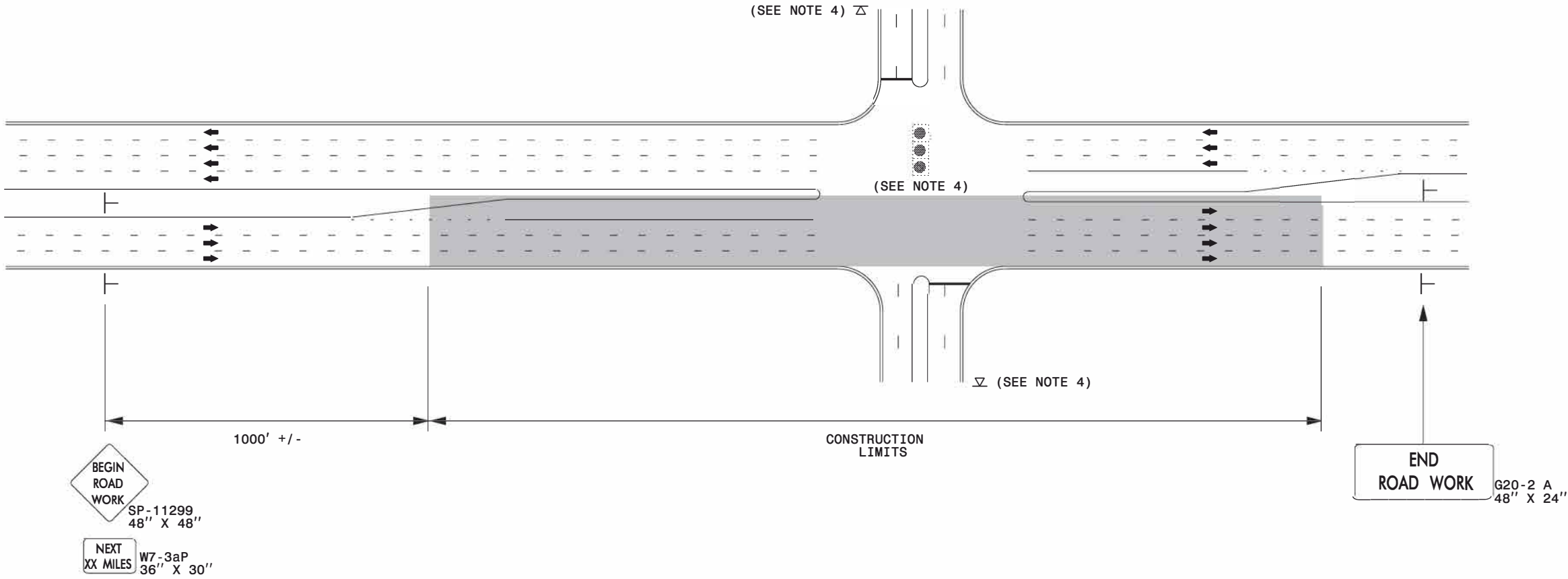


PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

**ADVANCE WARNING SIGNS
FOR
ASPHALT SURFACE TREATMENTS
2 LANE ROADWAYS**

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.04.20591, 2020CPT.13.04.20592, 2020CPT.13.05.20611, 2020CPT.13.05.20612	8	10

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**

4/8/2015
 C:\Users\mgarrrett\Downloads\Resurfacing_AdvWarn_UrSu (2).dgn
 User: mgarrrett

SIGN NUMBER: SP13106
 TYPE: STATIONARY
 QUANTITY: SEE PLANS

BACKG COLOR: Fluorescent Orange
 COPY COLOR: Black

DESIGN BY: B. RASHID
 PROJECT ID:

CHECKED BY: AIA
 DIV:

DATE: Apr 26, 2013

SYMBOL	X	Y	WID	HT

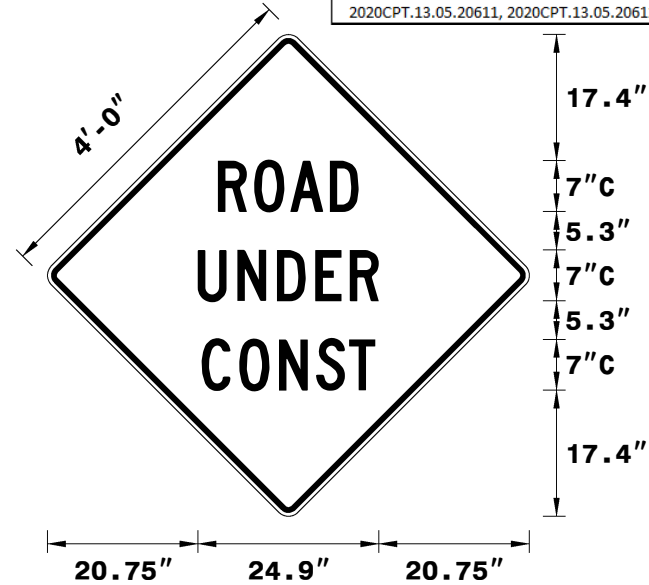
SIGN WIDTH: 4'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 16.00 Sq.Ft.

BORDER TYPE: INSET
 RECESS: 0.75"
 WIDTH: 1.25"
 RADII: 3"

NO. Z BARS:
 LENGTH:

MAT'L: 0.080" (2.0 mm) ALUMINUM

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.04.20591, 2020CPT.13.04.20592, 2020CPT.13.05.20611, 2020CPT.13.05.20612	10	10



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter																	Series/Size Text Length	
		R	O	A	D													C 2000
	23.5	5	5	5.5	3.9	23.5												19.3
		U	N	D	E	R												C 2000
	20.7	5.5	5.5	5.3	4.8	3.9	20.7											24.9
		C	O	N	S	T												C 2000
	21.2	5.2	5.5	5.1	4.6	3.6	21.2											23.9