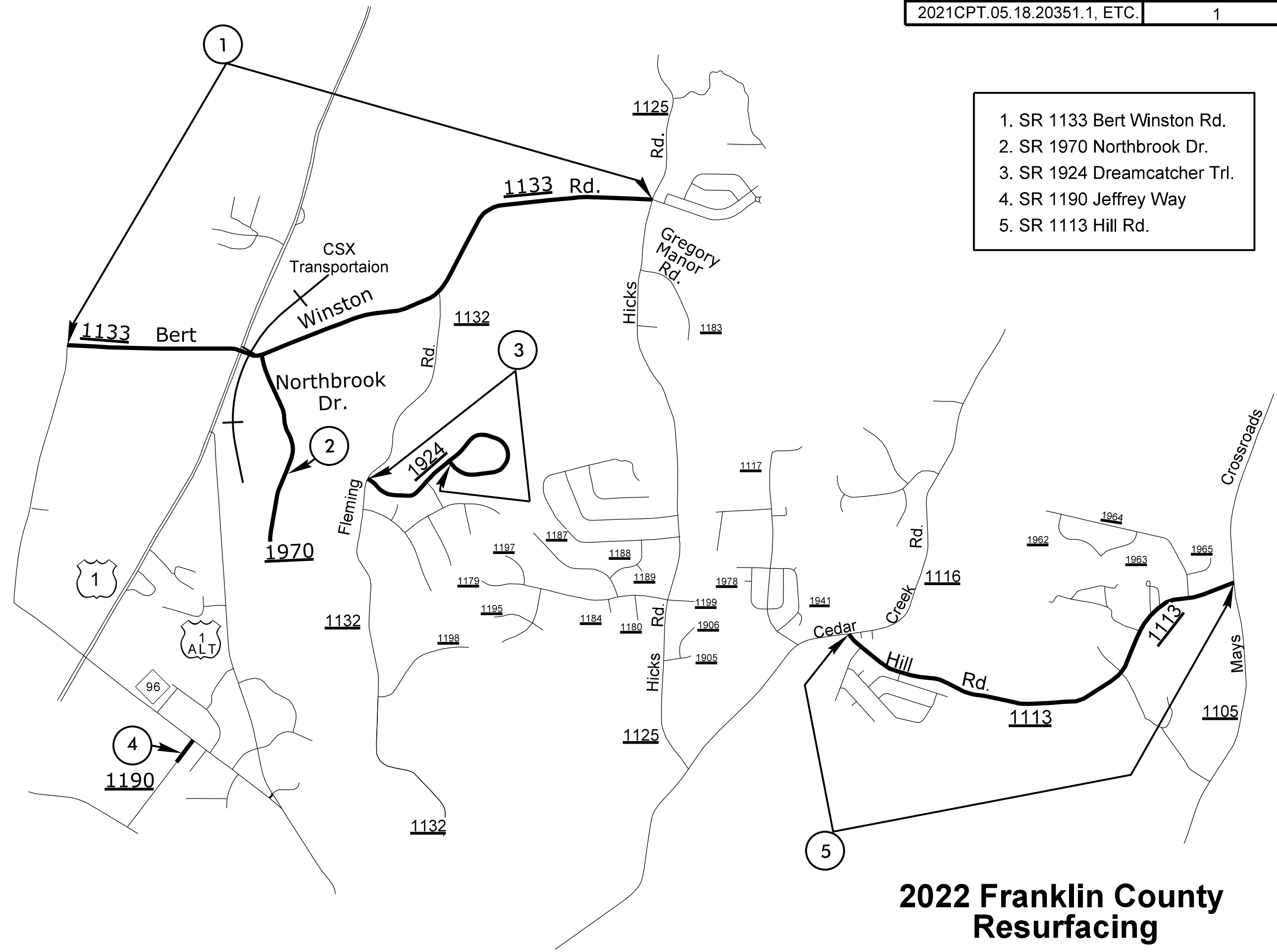




- |   |
|---|
| <ol style="list-style-type: none"> <li>1. SR 1133 Bert Winston Rd.</li> <li>2. SR 1970 Northbrook Dr.</li> <li>3. SR 1924 Dreamcatcher Trl.</li> <li>4. SR 1190 Jeffrey Way</li> <li>5. SR 1113 Hill Rd.</li> </ol> |
|---|



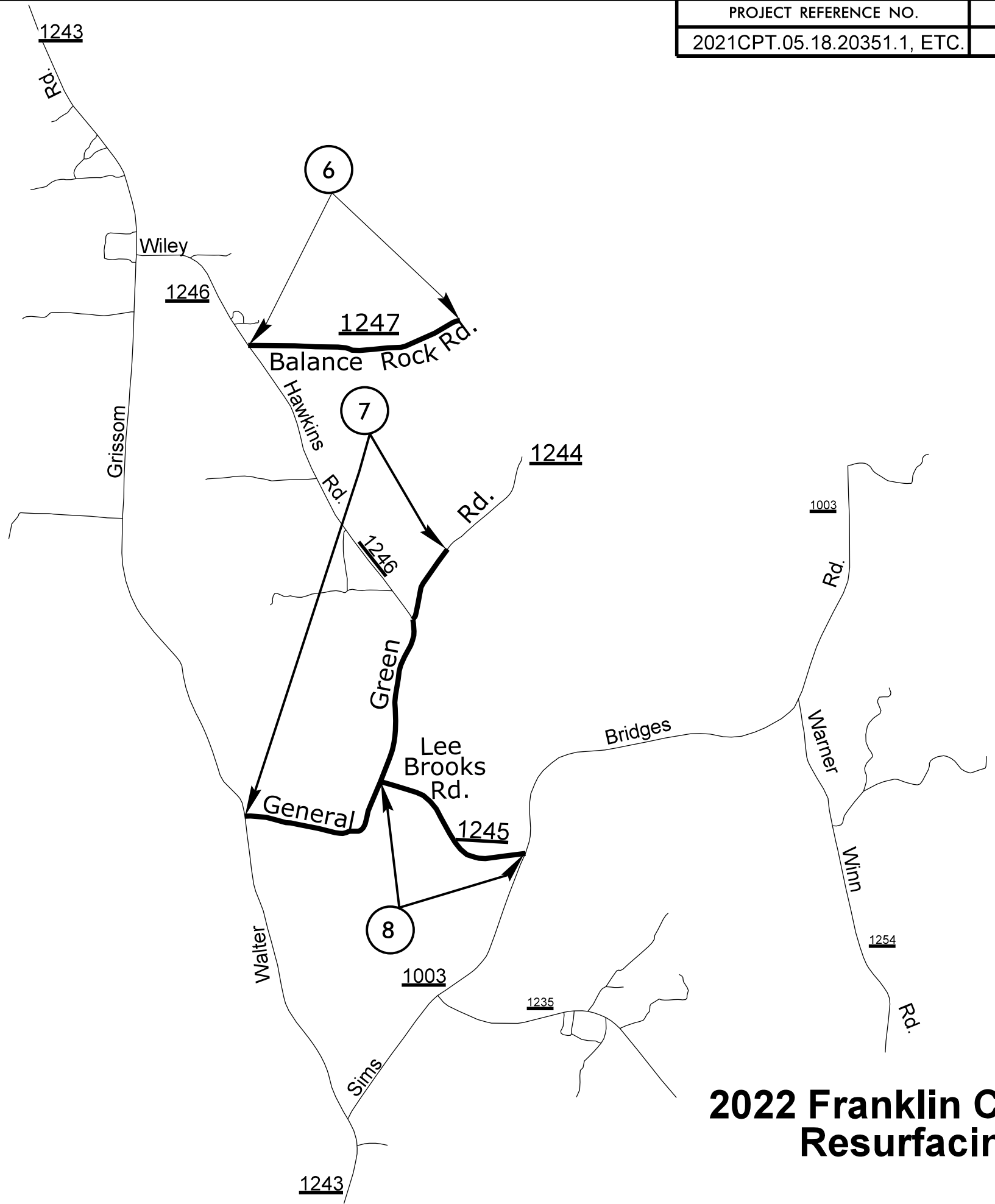
## 2022 Franklin County Resurfacing

5/14/23  
 C:\Users\jgibson\OneDrive\Documents\2022 Franklin County Resurfacing\2022 Franklin County Resurfacing.dwg



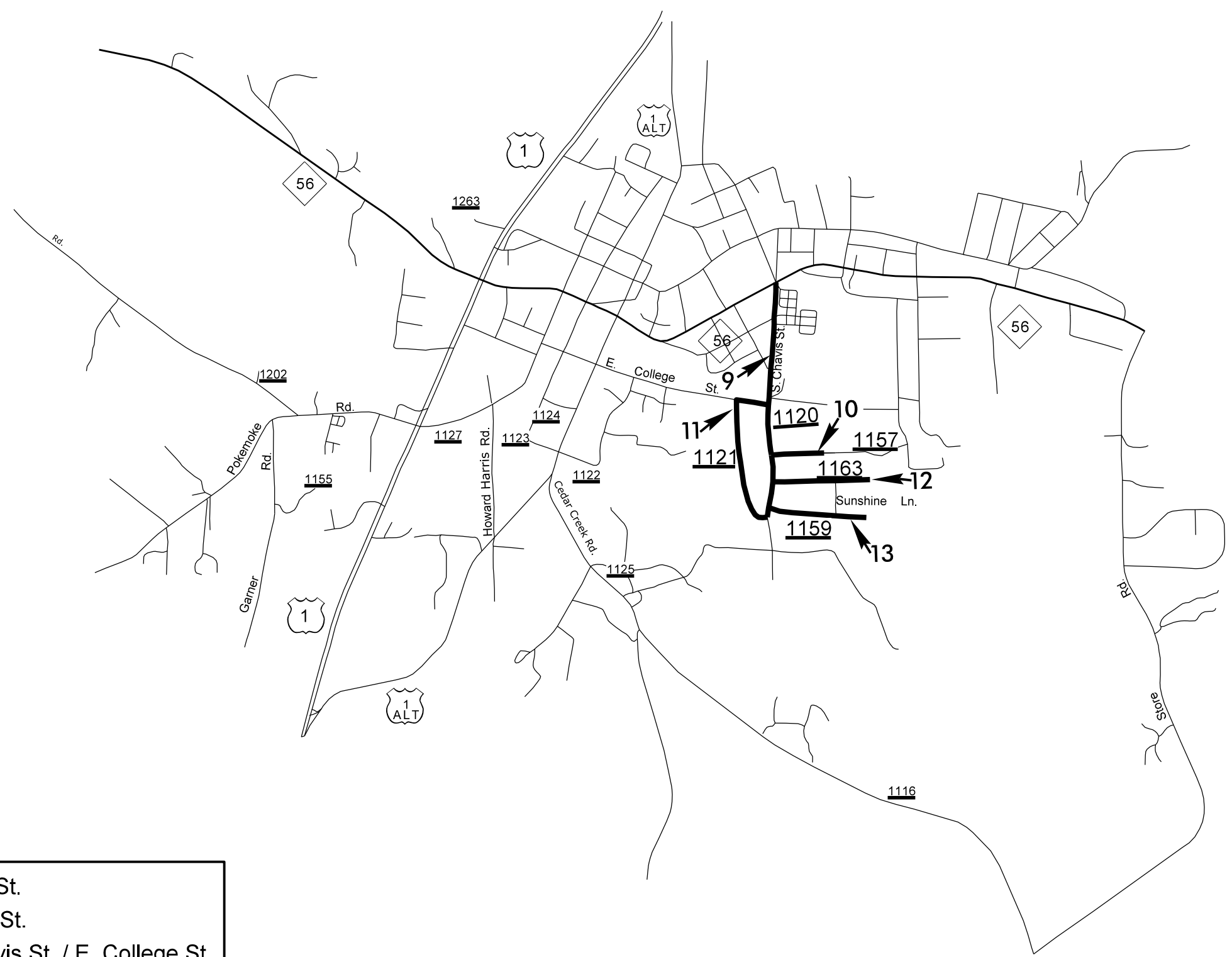
Vance County  
Franklin County

- 6. SR 1247 Balance Rock Rd.
- 7. SR 1244 General Green Rd.
- 8. SR 1245 Lee Brooks Rd.



## 2022 Franklin County Resurfacing

5/14/23

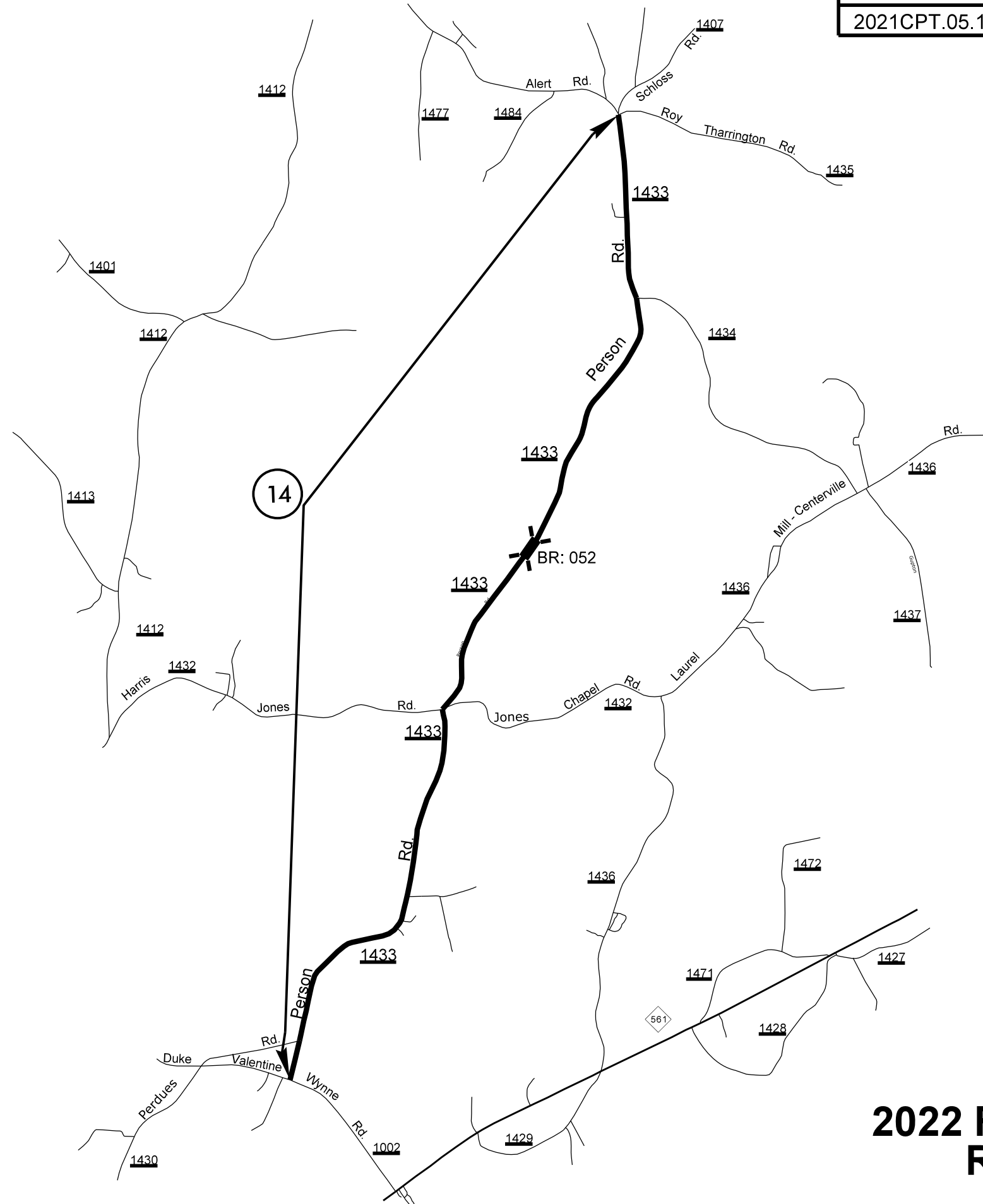


- |  |
|--|
| <p>9. SR 1120 Chavis St.</p> <p>10. SR 1157 Carver St.</p> <p>11. SR 1121 S. Chavis St. / E. College St.</p> <p>12. SR 1163 Dogwood Ln.</p> <p>13. SR 1159 Peach St.</p> |
|--|

## 2022 Franklin County Resurfacing

5/14/23

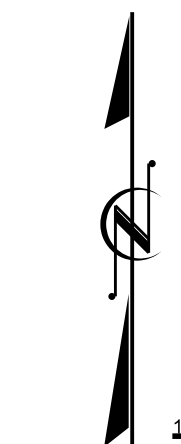
C:\Users\jgibson\OneDrive\Documents\2022 Franklin County Resurfacing\2022 Franklin County Resurfacing.dwg



14. SR 1433 Person Rd.

## 2022 Franklin County Resurfacing

5/14/23  
 C:\Users\jgibson\OneDrive\Documents\2022 Franklin County Resurfacing\14. SR 1433 Person Rd.



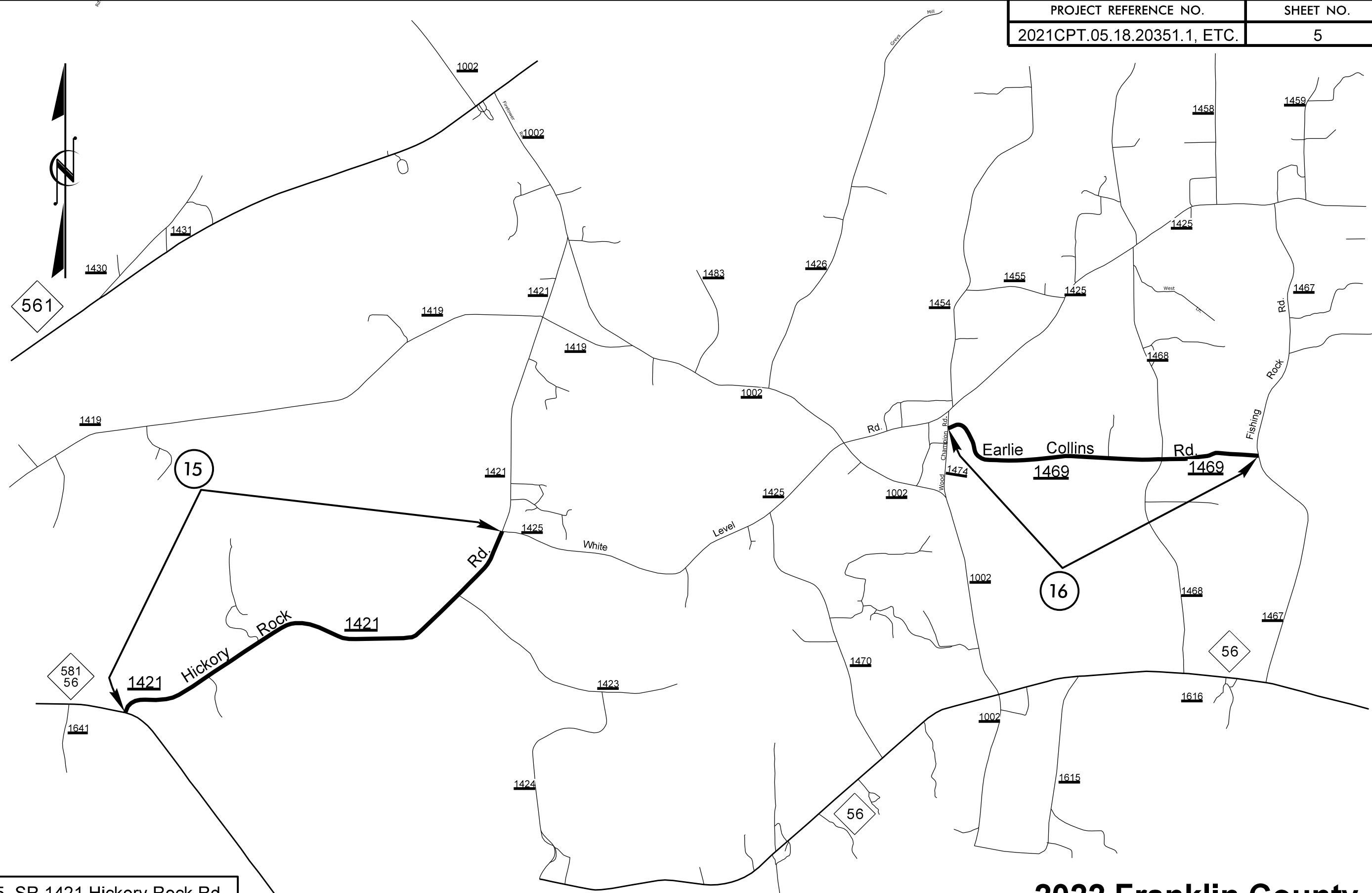
561

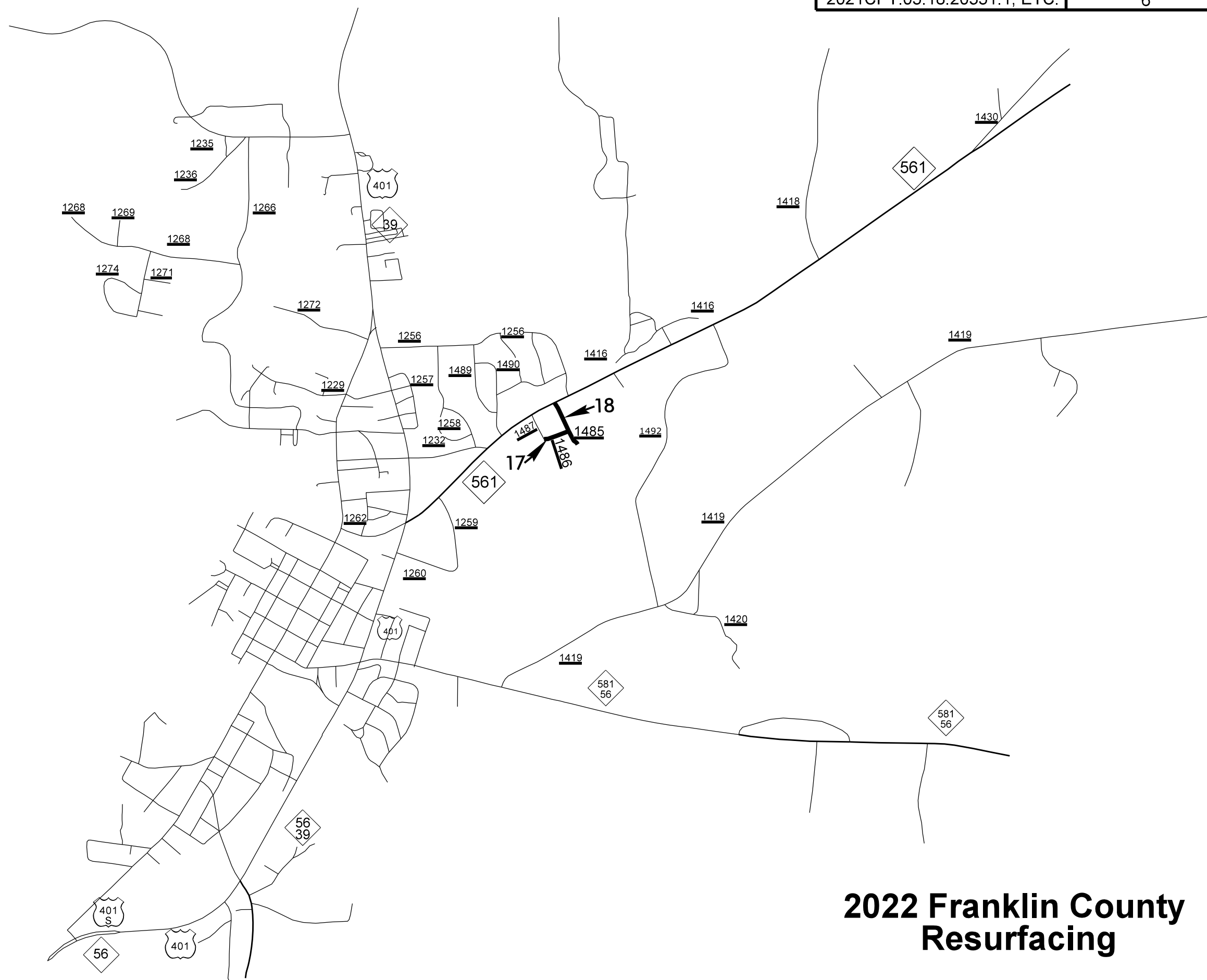
581  
56

56

15. SR 1421 Hickory Rock Rd.  
16. SR 1469 Earlie Collins Rd.

# 2022 Franklin County Resurfacing

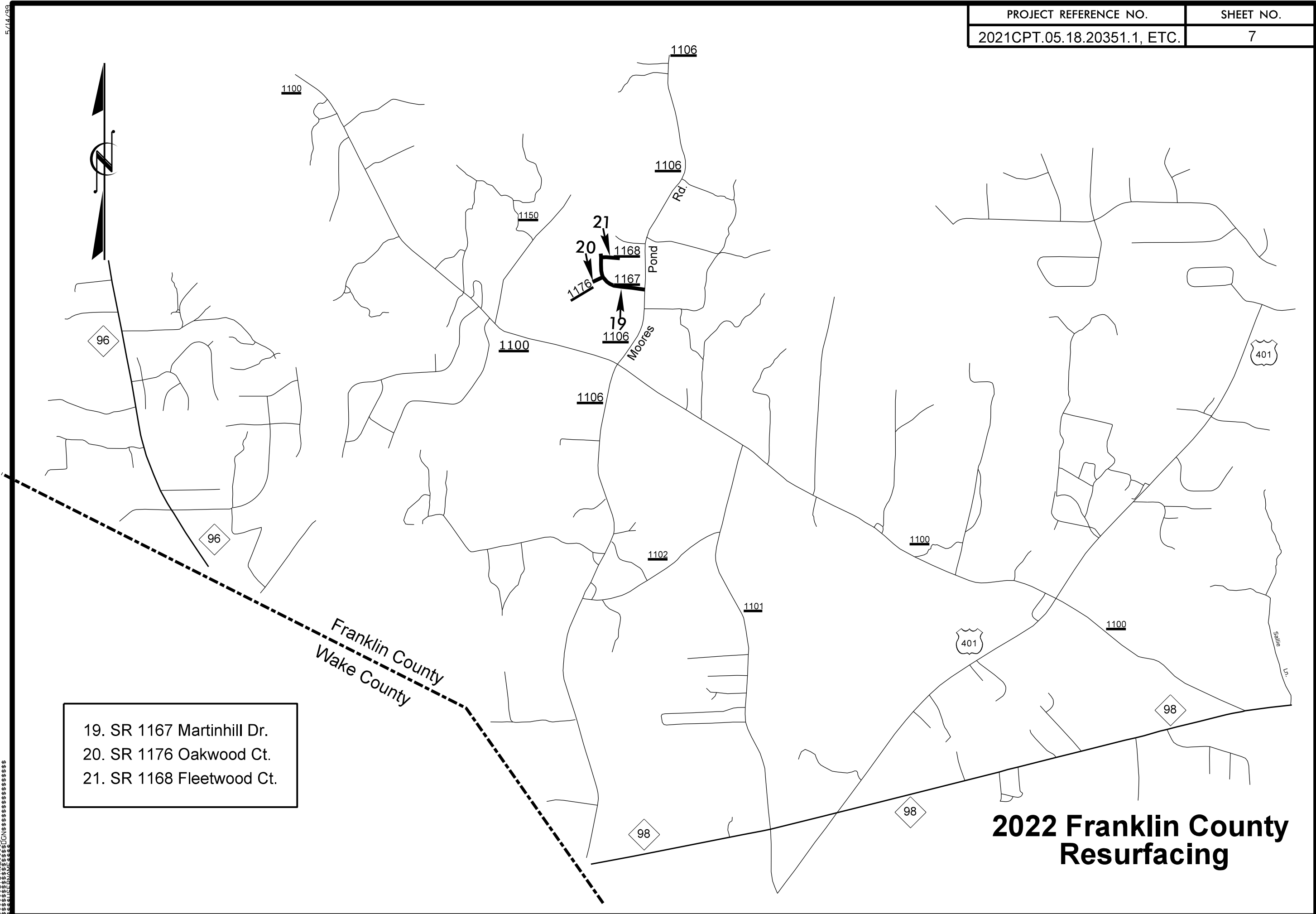




17. SR 1486 Russel Blvd.  
 18. SR 1485 Drew St.

## 2022 Franklin County Resurfacing

5/14/23



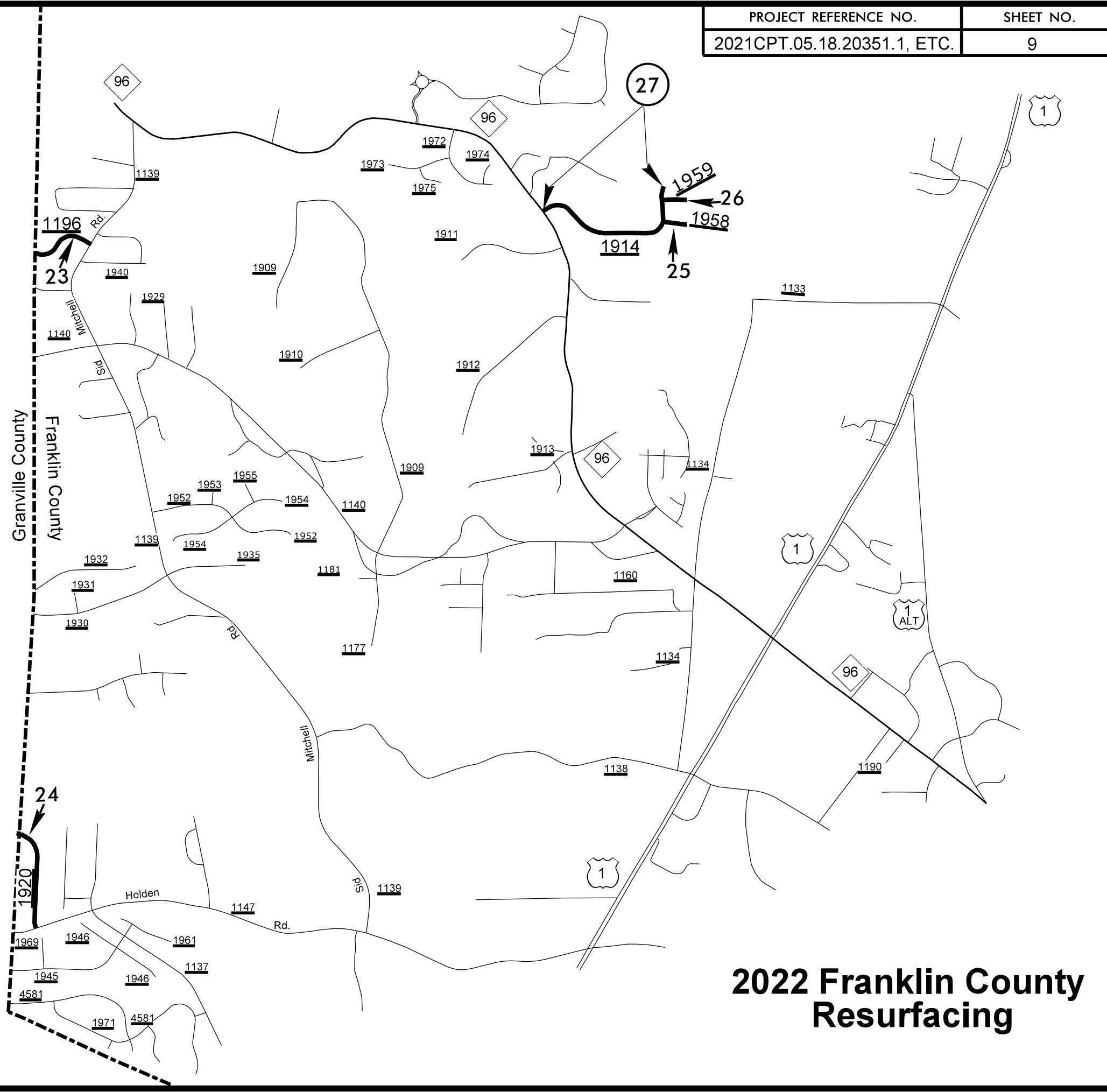
- |  |
|--|
| 19. SR 1167 Martinhill Dr.<br>20. SR 1176 Oakwood Ct.<br>21. SR 1168 Fleetwood Ct. |
|--|

## 2022 Franklin County Resurfacing

5/14/23  
 C:\T\Projects\2022 Franklin County Resurfacing\Drawings\2022 Franklin County Resurfacing.dwg





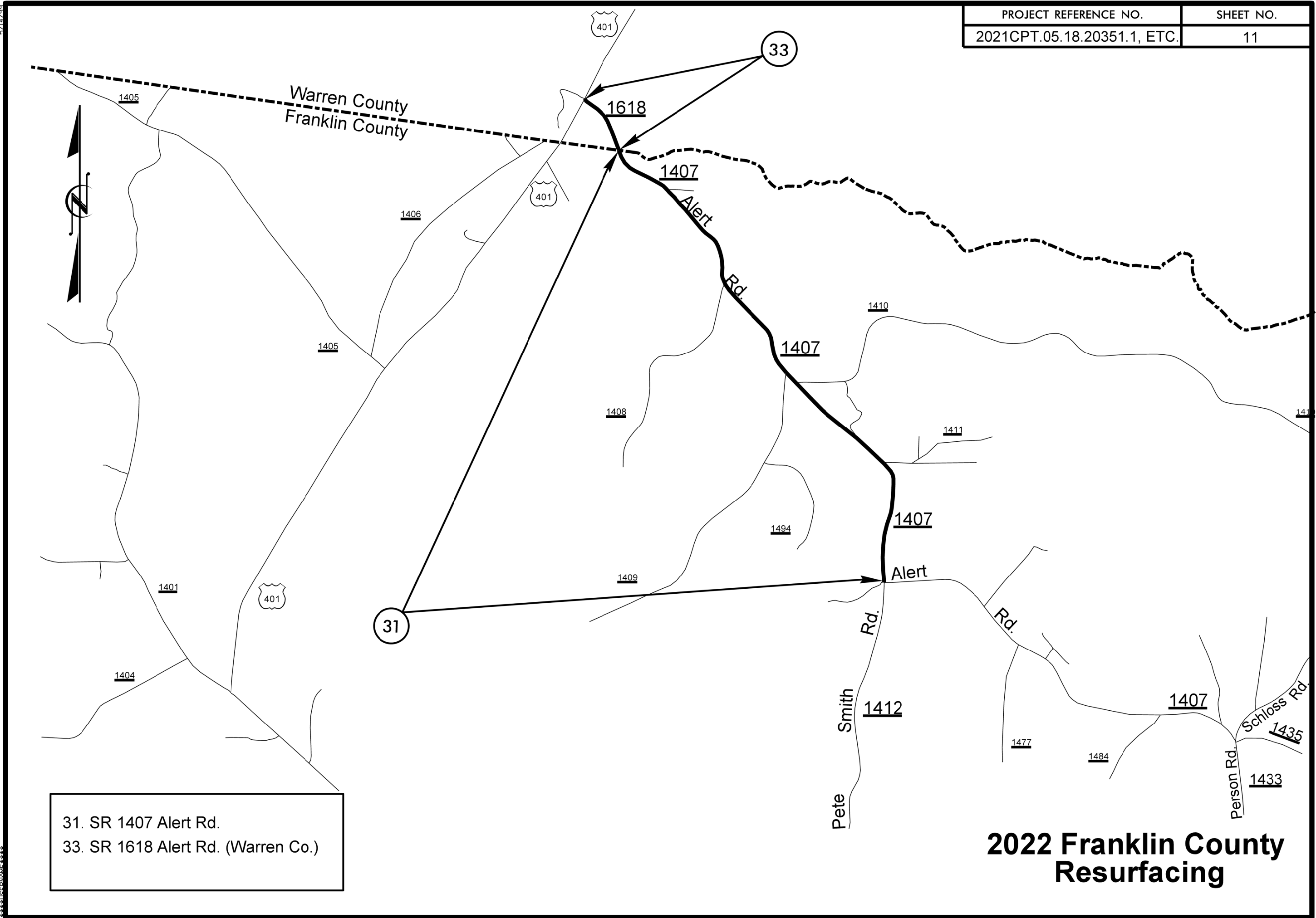


- 23. SR 1196 Sue Kim Dr.
- 24. SR 1920 Glendale Dr.
- 25. SR 1958 Anne Ct.
- 26. SR 1959 Victoria Ct.
- 27. SR 1914 Windsong Ln.

## 2022 Franklin County Resurfacing

5/14/23

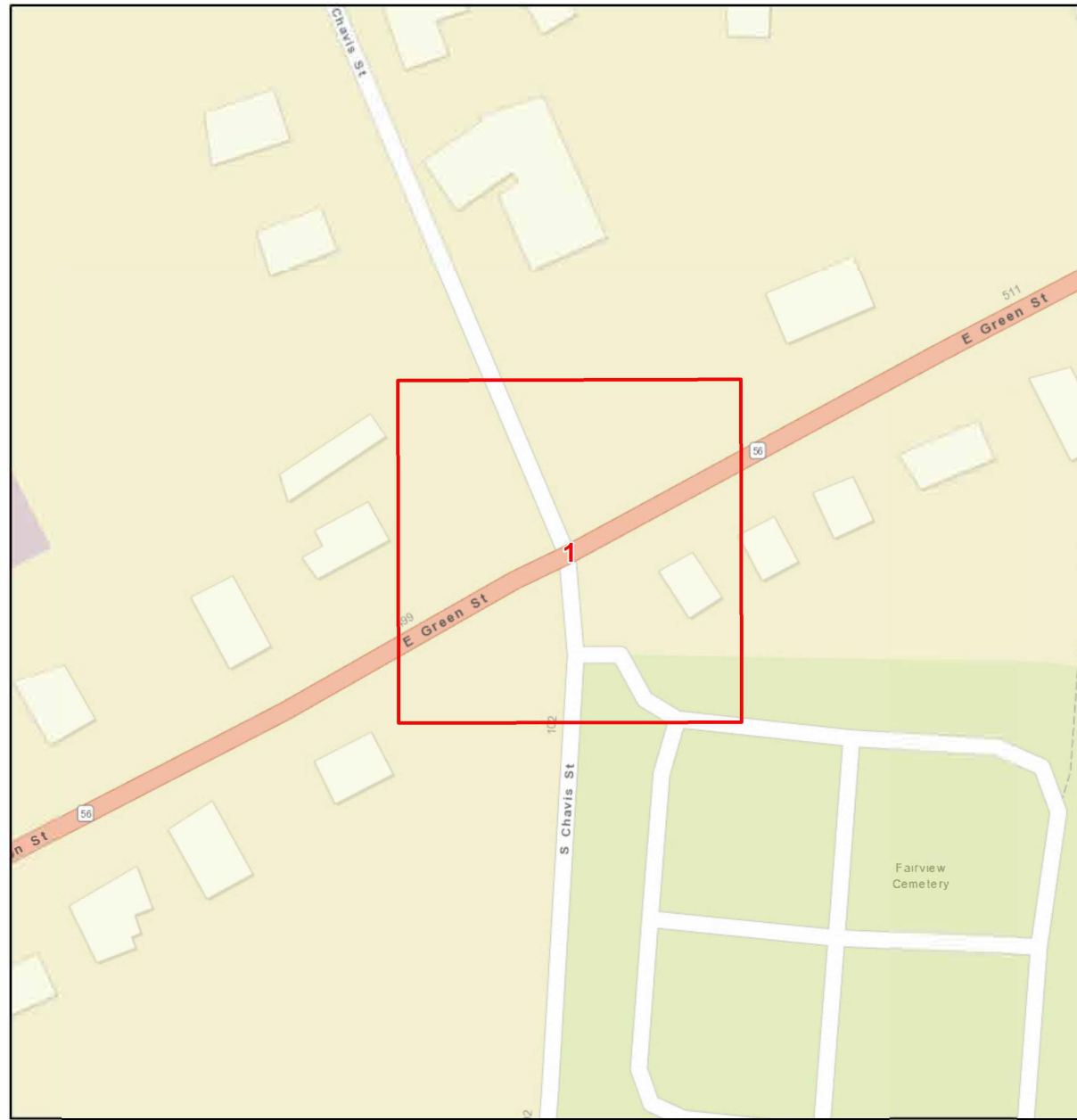




31. SR 1407 Alert Rd.  
 33. SR 1618 Alert Rd. (Warren Co.)

## 2022 Franklin County Resurfacing


5/14/23  
 C:\TIME\GIS\CON\RESURFACING\2022\2022\_FRANKLIN\_COUNTY\_RESURFACING\2022\_FRANKLIN\_COUNTY\_RESURFACING\_11.dwg



**Curb Ramps To Be Repaired**


- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp

Municipal Boundary  
 NCHPO Historic Boundary (NR and LHD)



**2022 Franklin**  
**WBS: 2021CPT.05.18.20351.1, ETC**

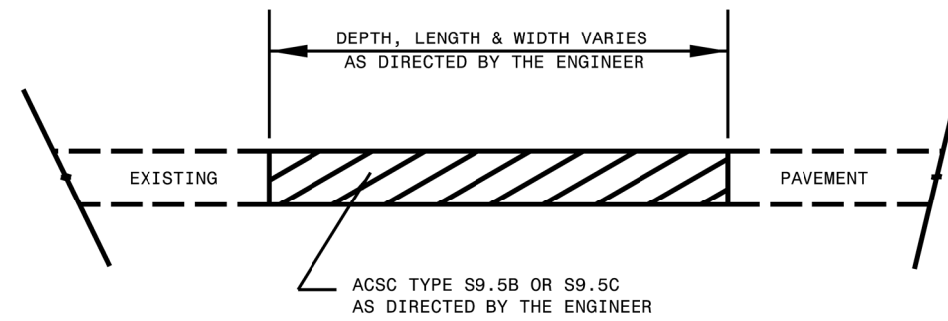
**S Chavis St**  
**From NC 56 To SR 1121**



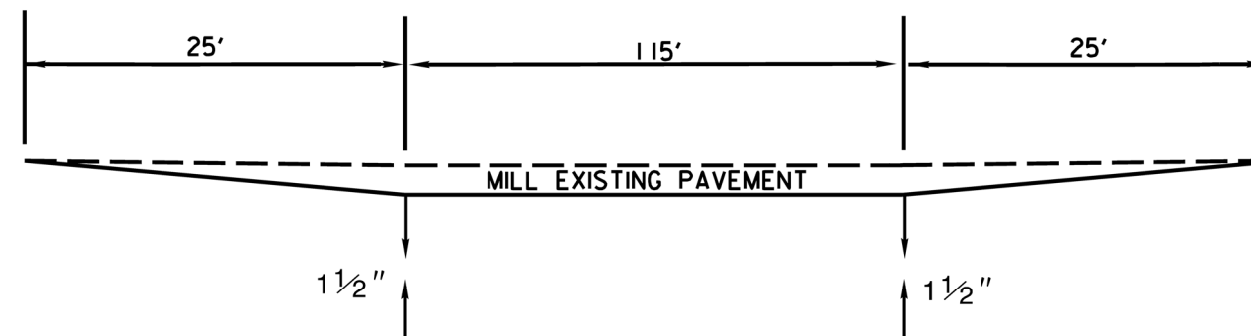
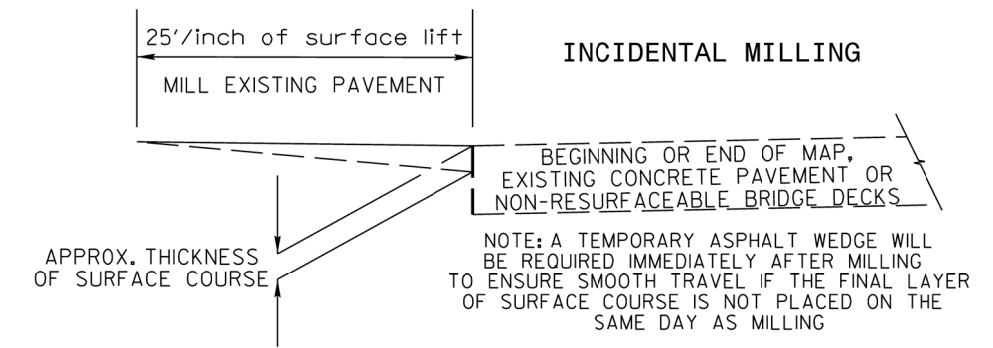
NORTH CAROLINA DEPARTMENT  
OF TRANSPORTATION  
DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO

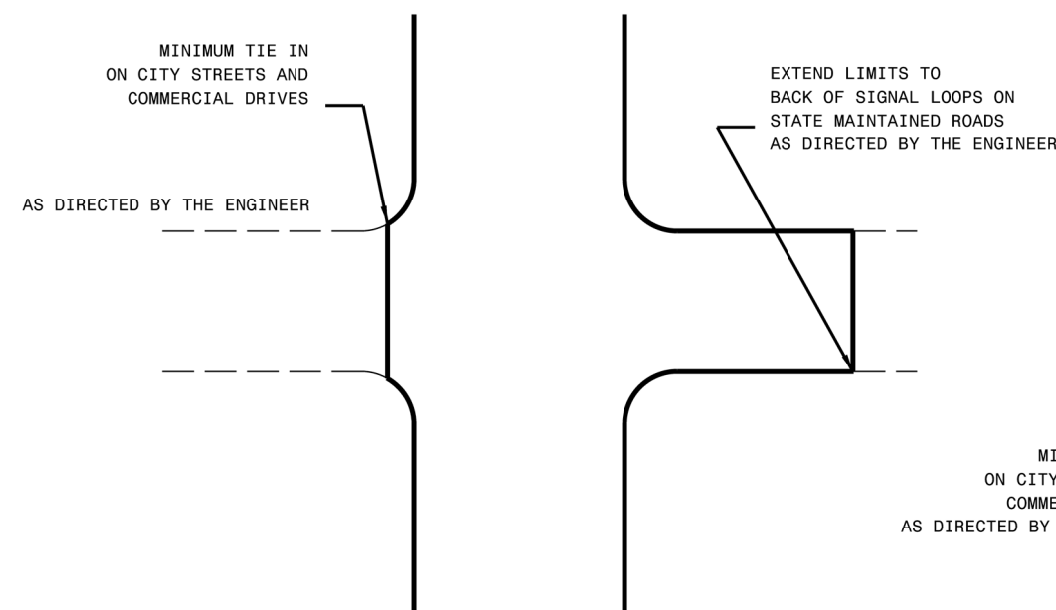




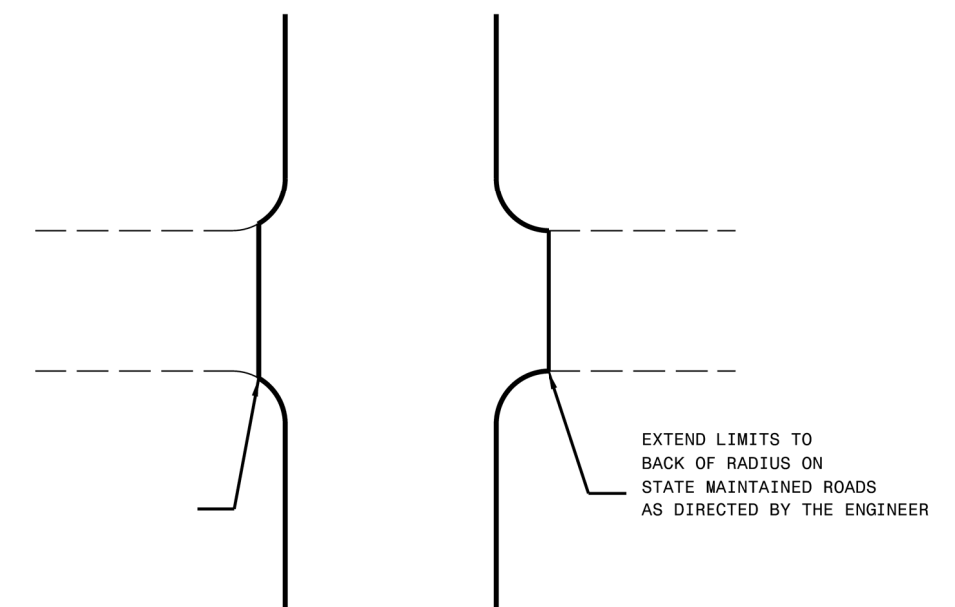
**PATCHING EXISTING PAVEMENT**  
MILLING TO BE PERFORMED PRIOR TO PATCHING



MILLING DETAIL FOR MAP #2 SR 1970, NORTHBROOK DR.  
 \*MILL & FILL 1 1/2" EXISTING PAVEMENT AT PEDESTRIAN CROSSING AT APPROXIMATELY STA 34+35 TO MAINTAIN ADA COMPLIANCE AND NO SIDEWALK OVERLAY.  
 MILL 0" TO 1 1/2" IN 25' AT BEGINNING OF SIDEWALK. CONTINUE 1 1/2" MILL AND FILL 115'. MILL 1 1/2" TO 0" BACK TO EXSITING PAVEMENT.



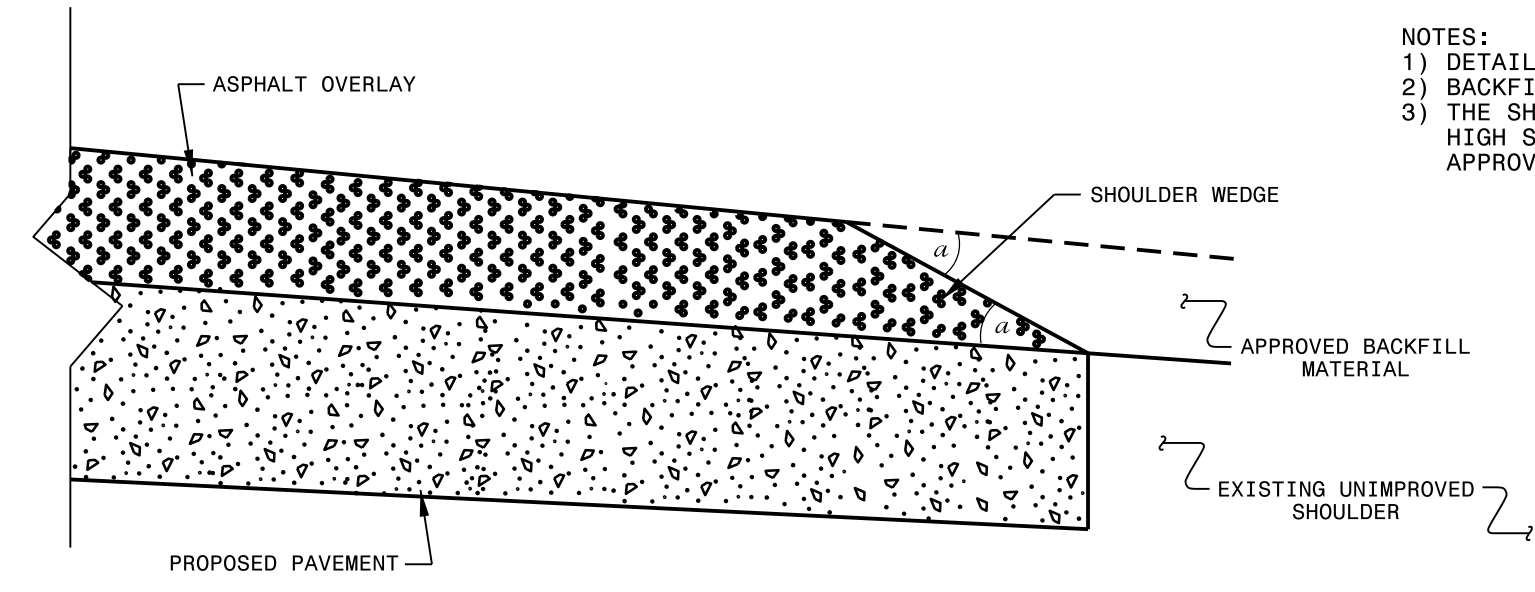
**DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES**



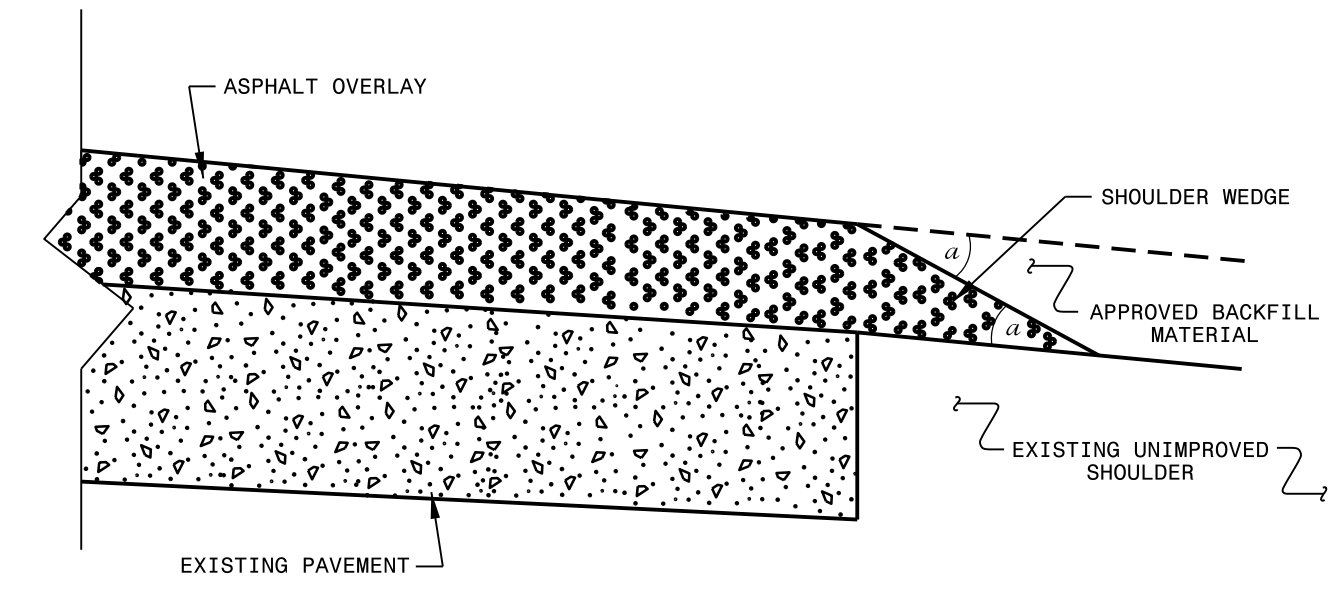
**DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES**

11/20/2024 10:58 AM  
 C:\Users\jgibson\OneDrive\Documents\2024\2024CPT 05J82035J\2024CPT 05J82035J.dwg  
 11/20/2024 10:58 AM

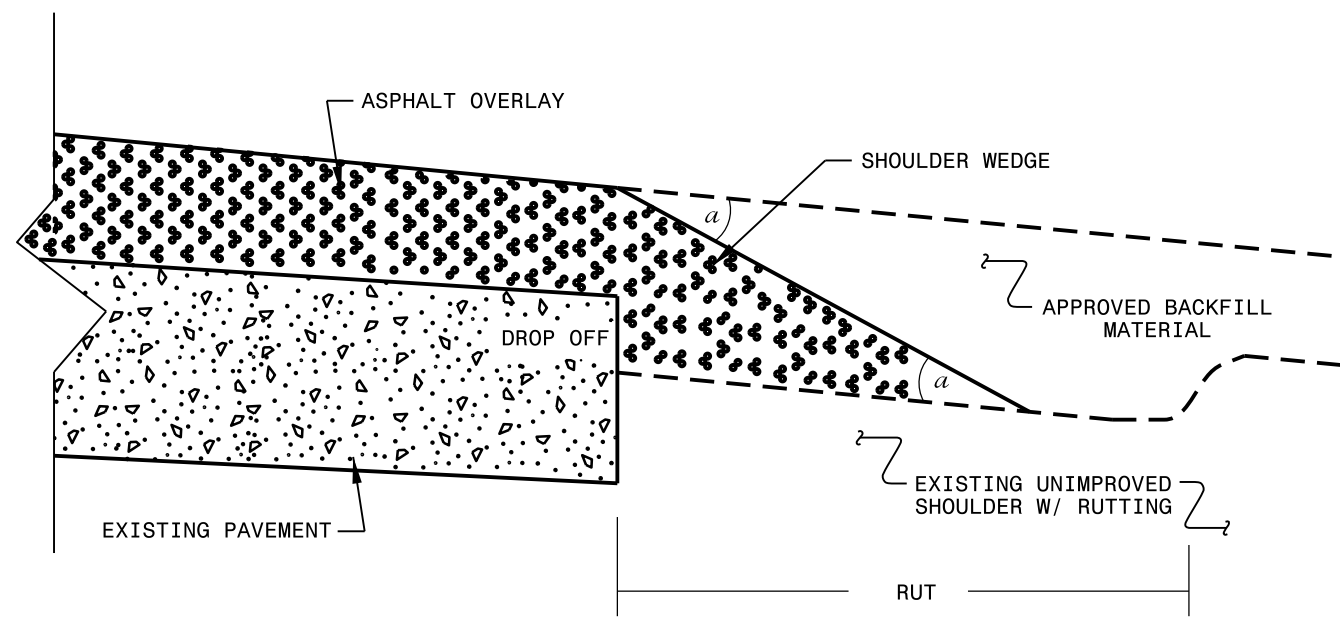
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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



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

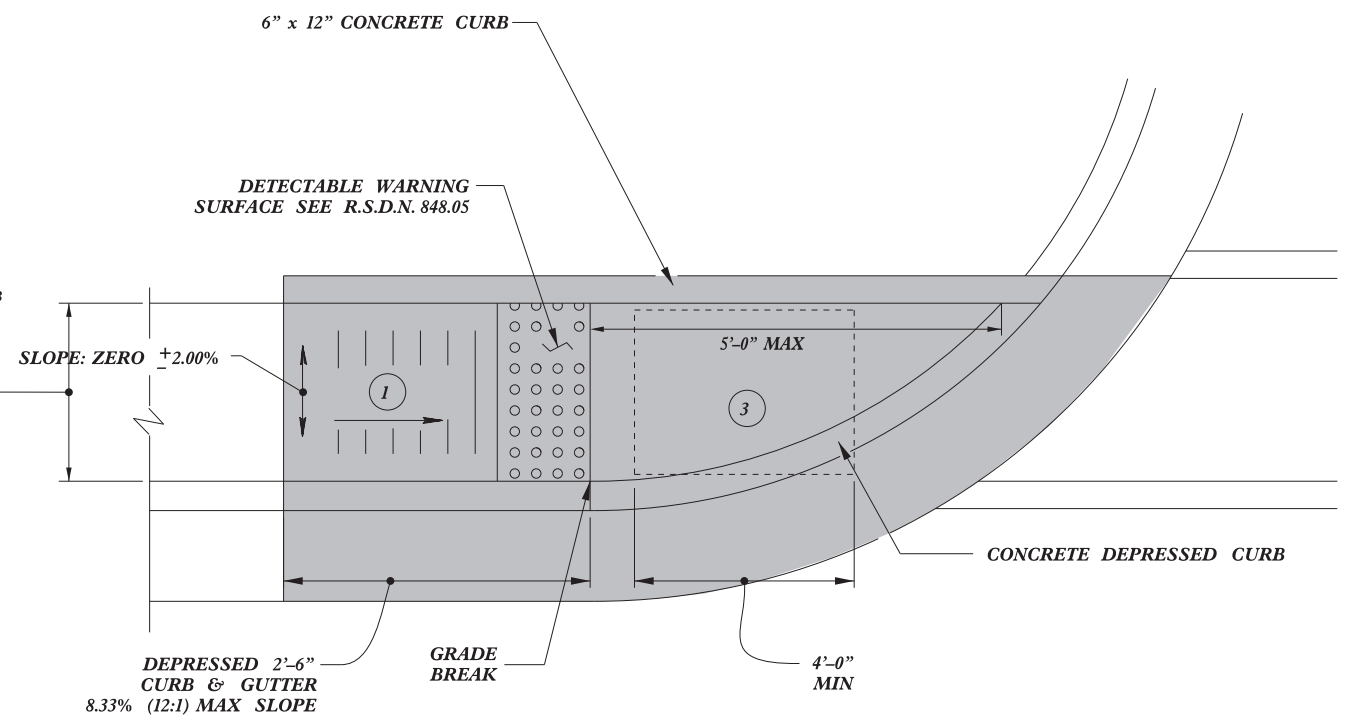
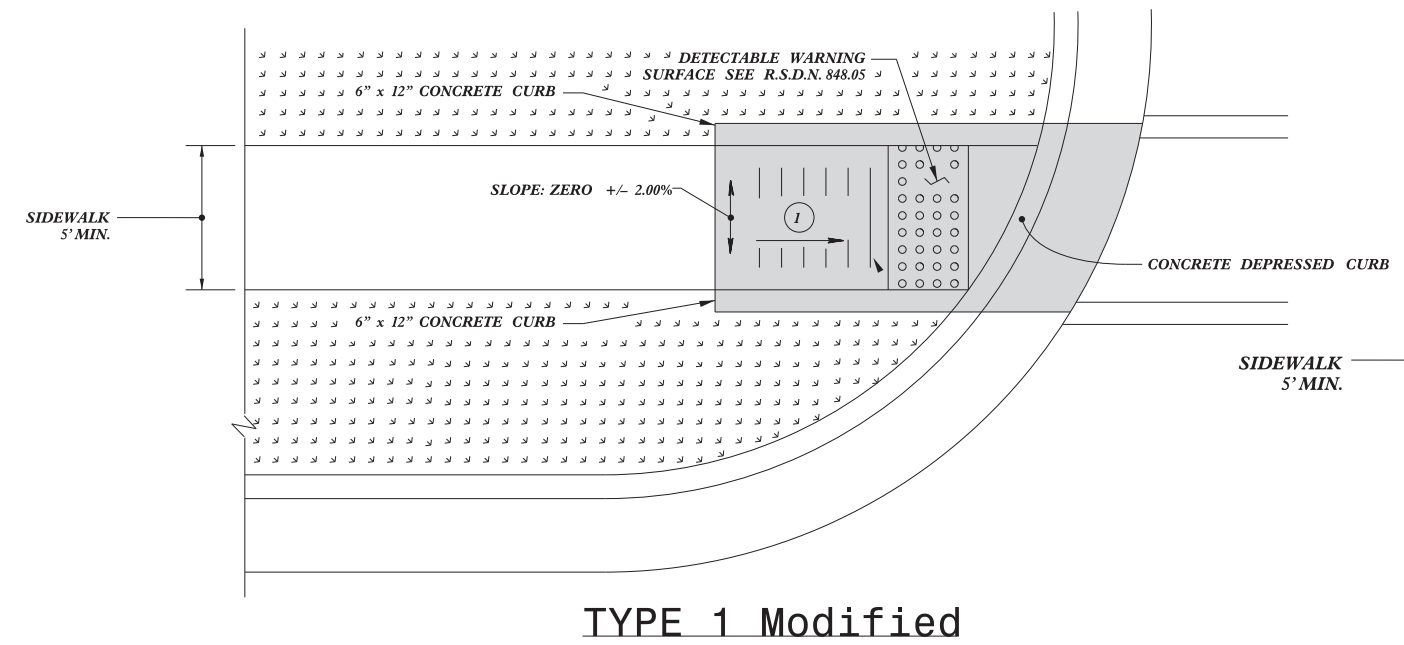
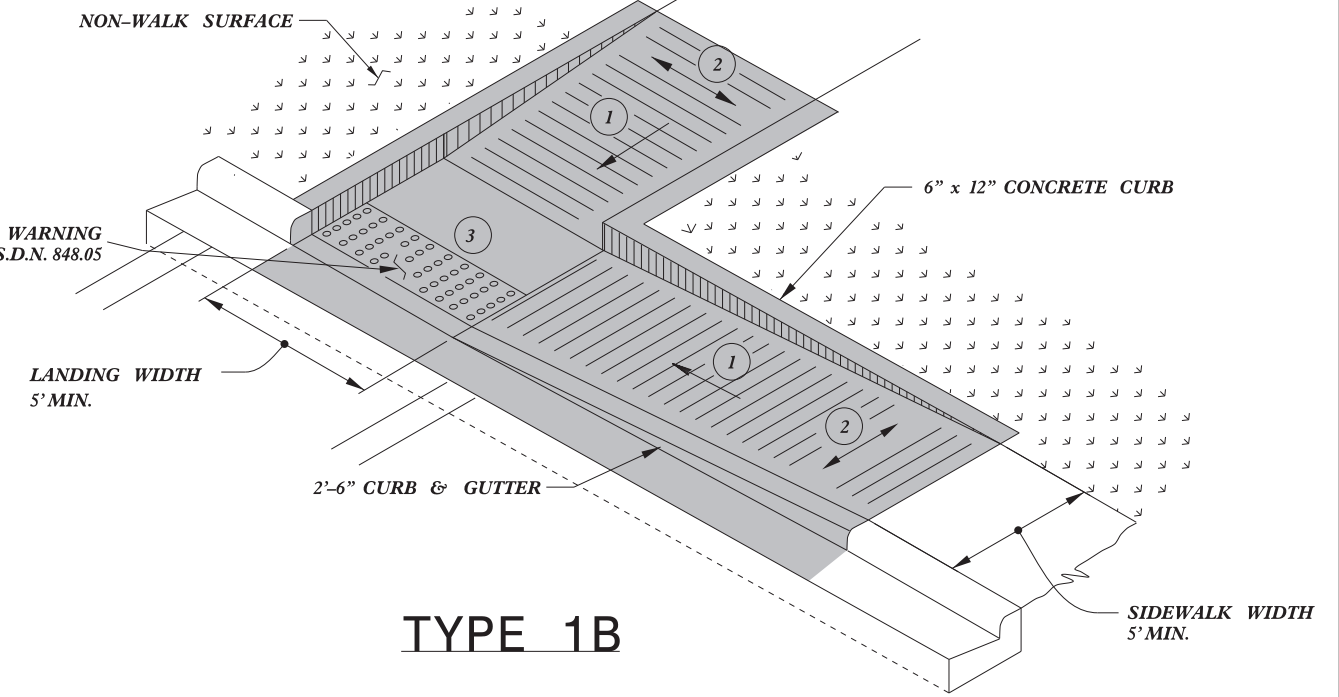
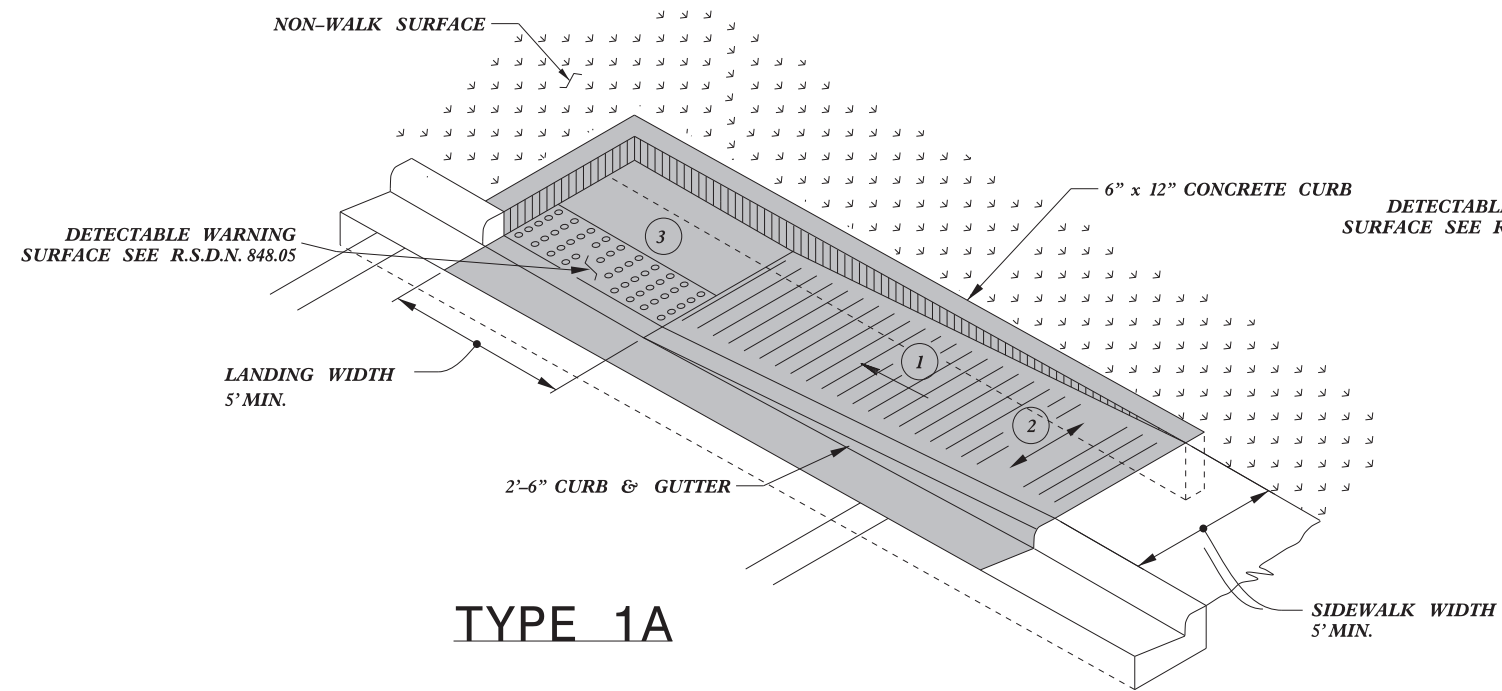


**SHOULDER WEDGE DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

<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: 2/2/16	
CHECKED BY:	DATE:	
FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn		

22 JAN-2018 09:41  
 S:\Contracts\1030\Resurfacing Projects\Division 4\I-5937 Wilson March 2018\Revised Shoulder Wedge Detail.dgn  
 P:\piper\41\_CSD-2015-02



- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

TYPE 1 1/8/2020



Designed by:  
*J.S. Howerton*

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

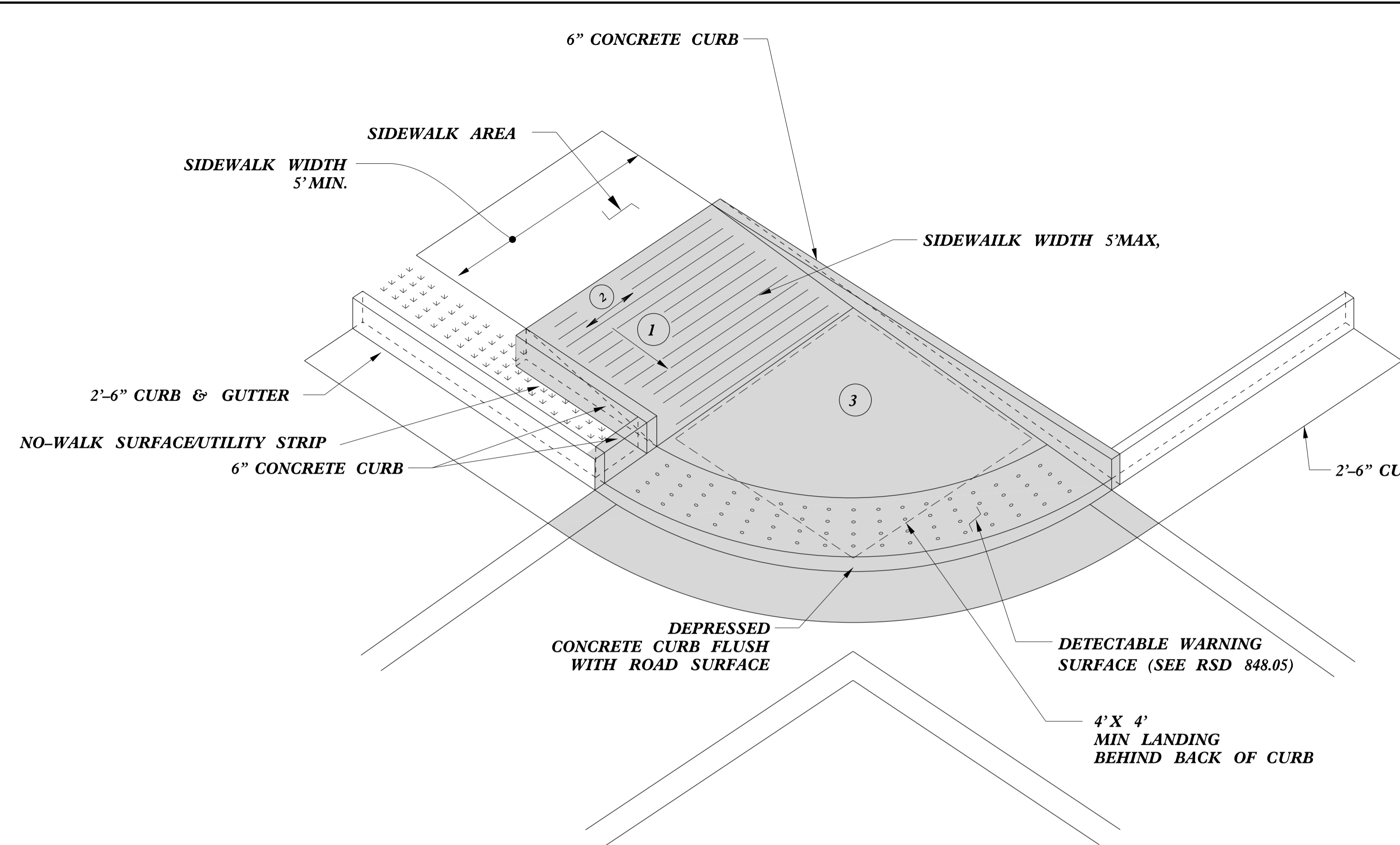
**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
 Office 919-707-6950 FAX 919-250-4119

**CURB RAMPS**  
 Directional Ramps

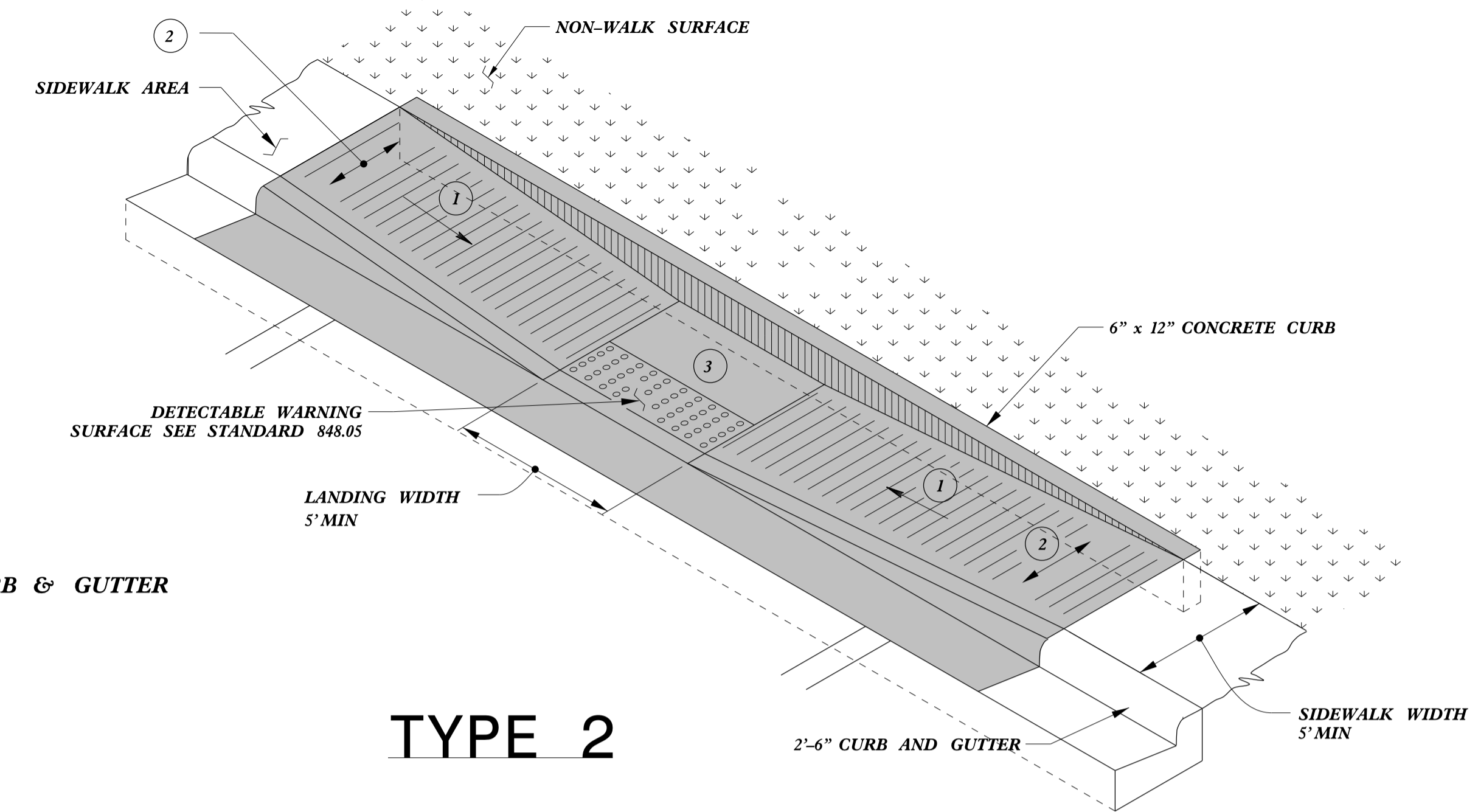
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11  
 MODIFIED BY: DATE: \_\_\_\_\_  
 CHECKED BY: DATE: \_\_\_\_\_  
 FILE SPEC: sids/2012CurbRamp/CurbRampDetails.dgn

5/14/99  
 \$\$\$\$SYTIME\$\$\$\$  
 \$\$\$\$CON\$\$\$\$  
 \$\$\$\$DU\$\$\$\$  
 \$\$\$\$SERNAME\$\$\$\$

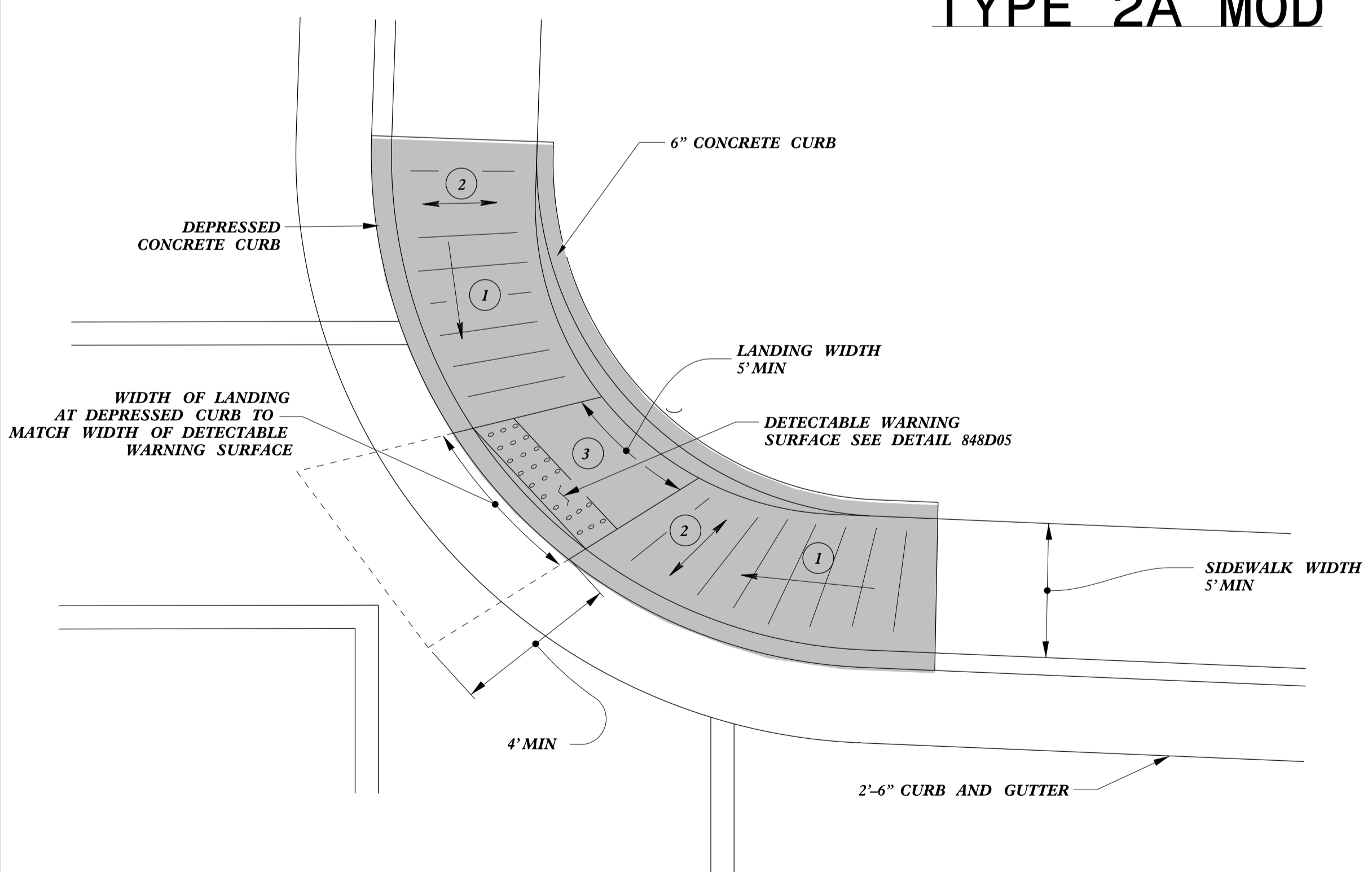




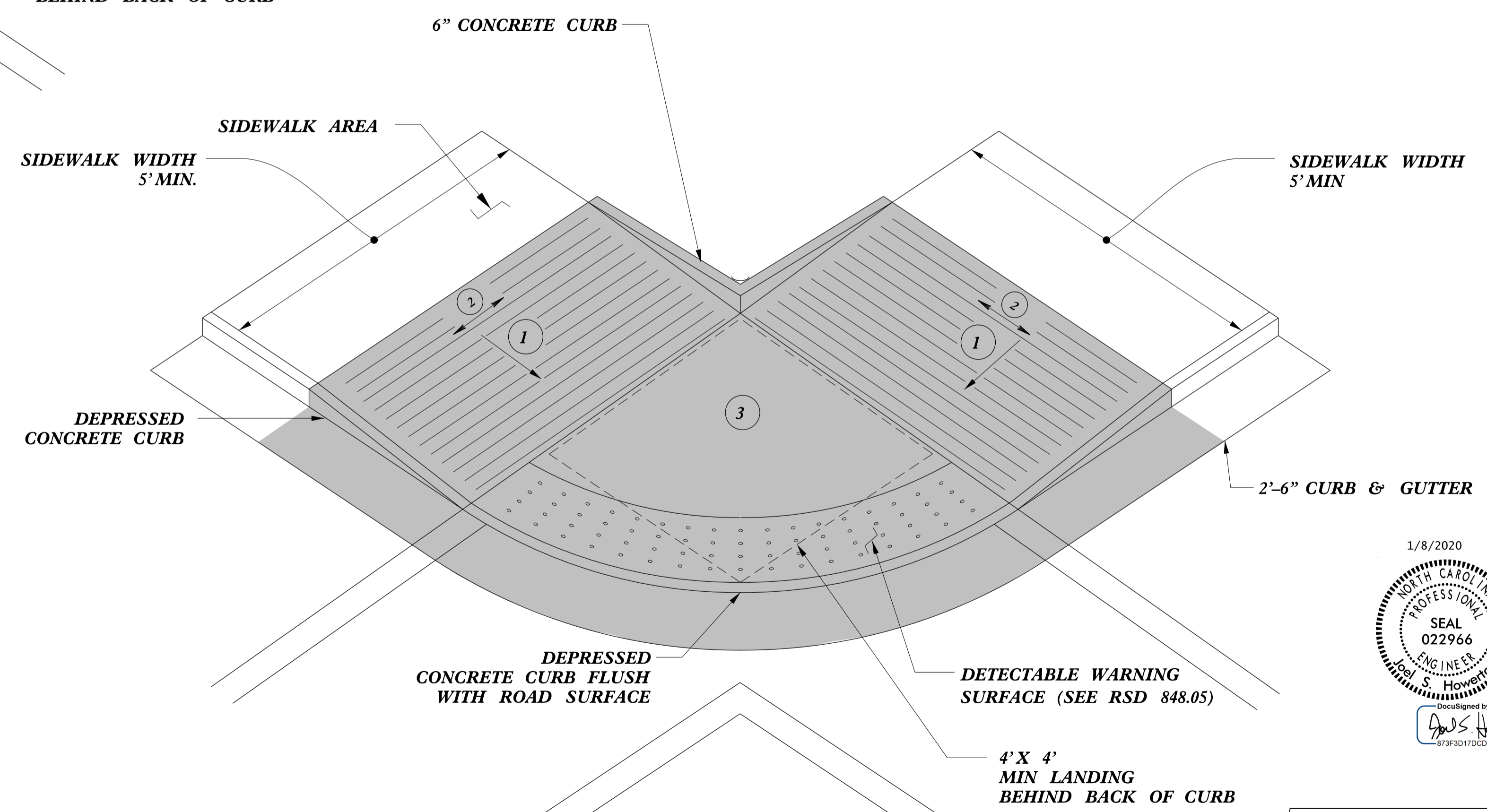
**TYPE 2A MOD**



**TYPE 2**



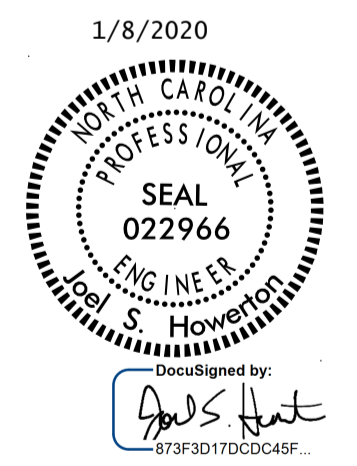
**TYPE 2B**



**TYPE 2A**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

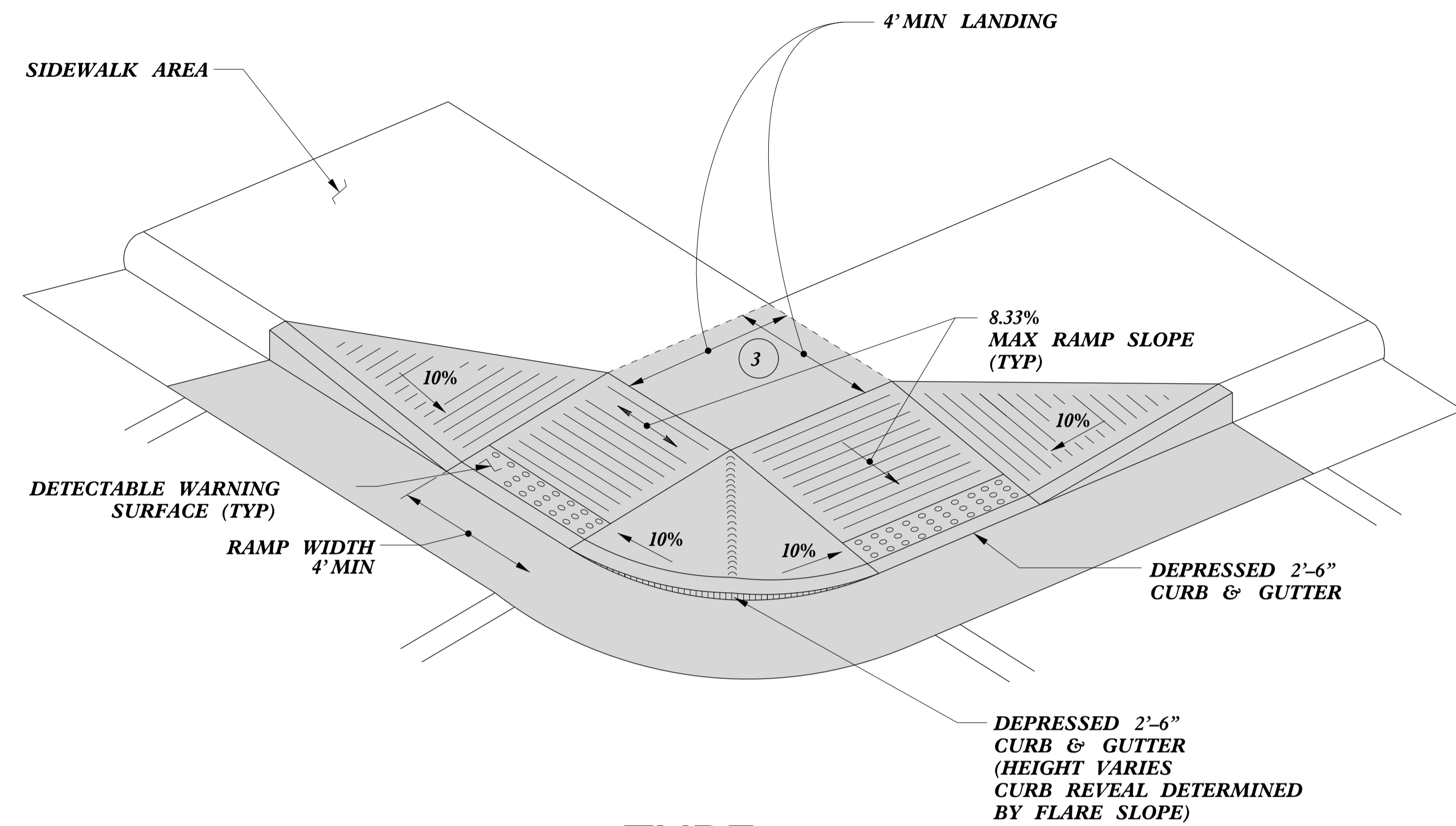


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

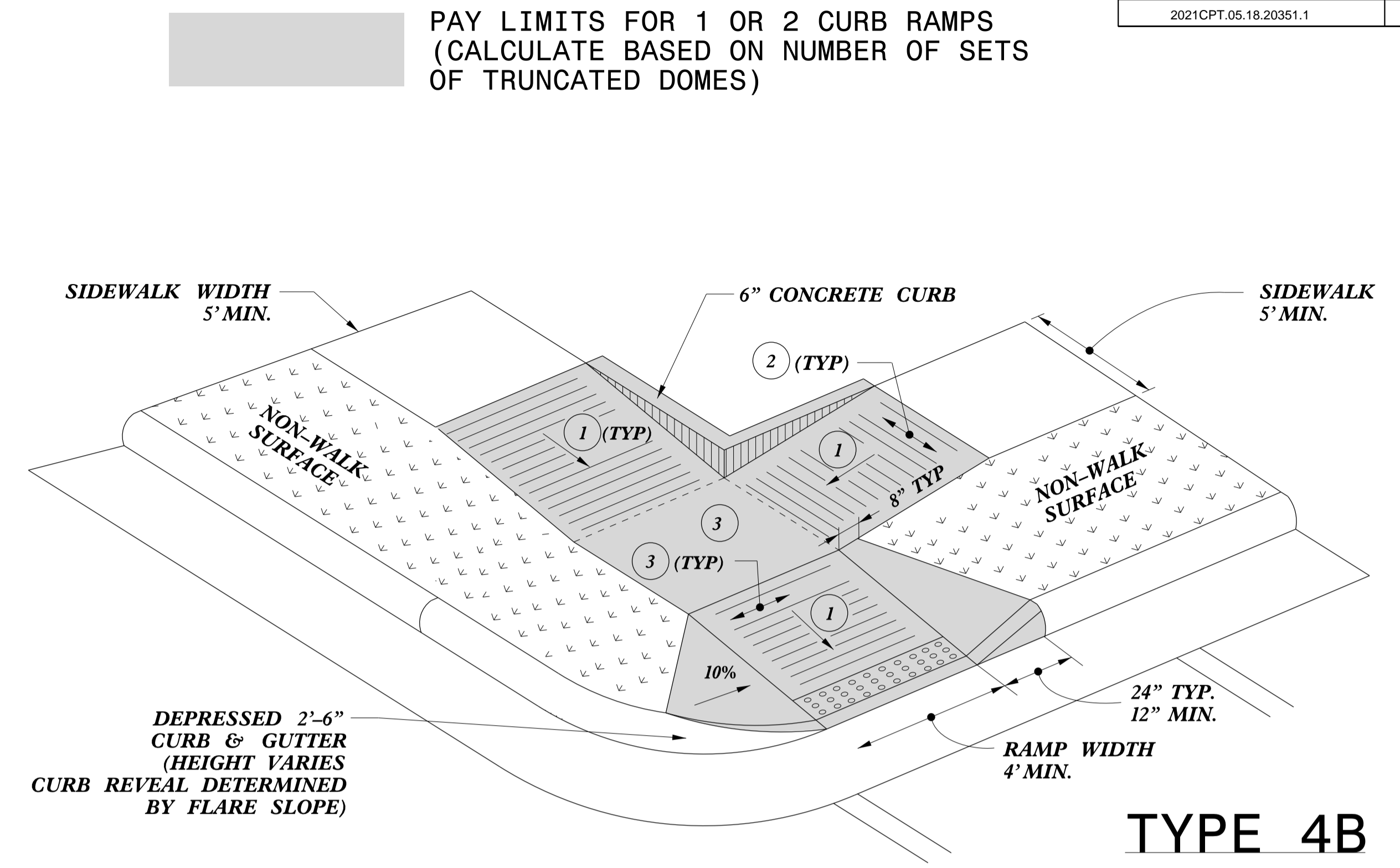
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. :stds\2012CurbRamp\CurbRampDetails.dgn	

5/14/99  
C:\P\2021\2021CPT.05.18.20351.1\2021CPT.05.18.20351.1.dgn

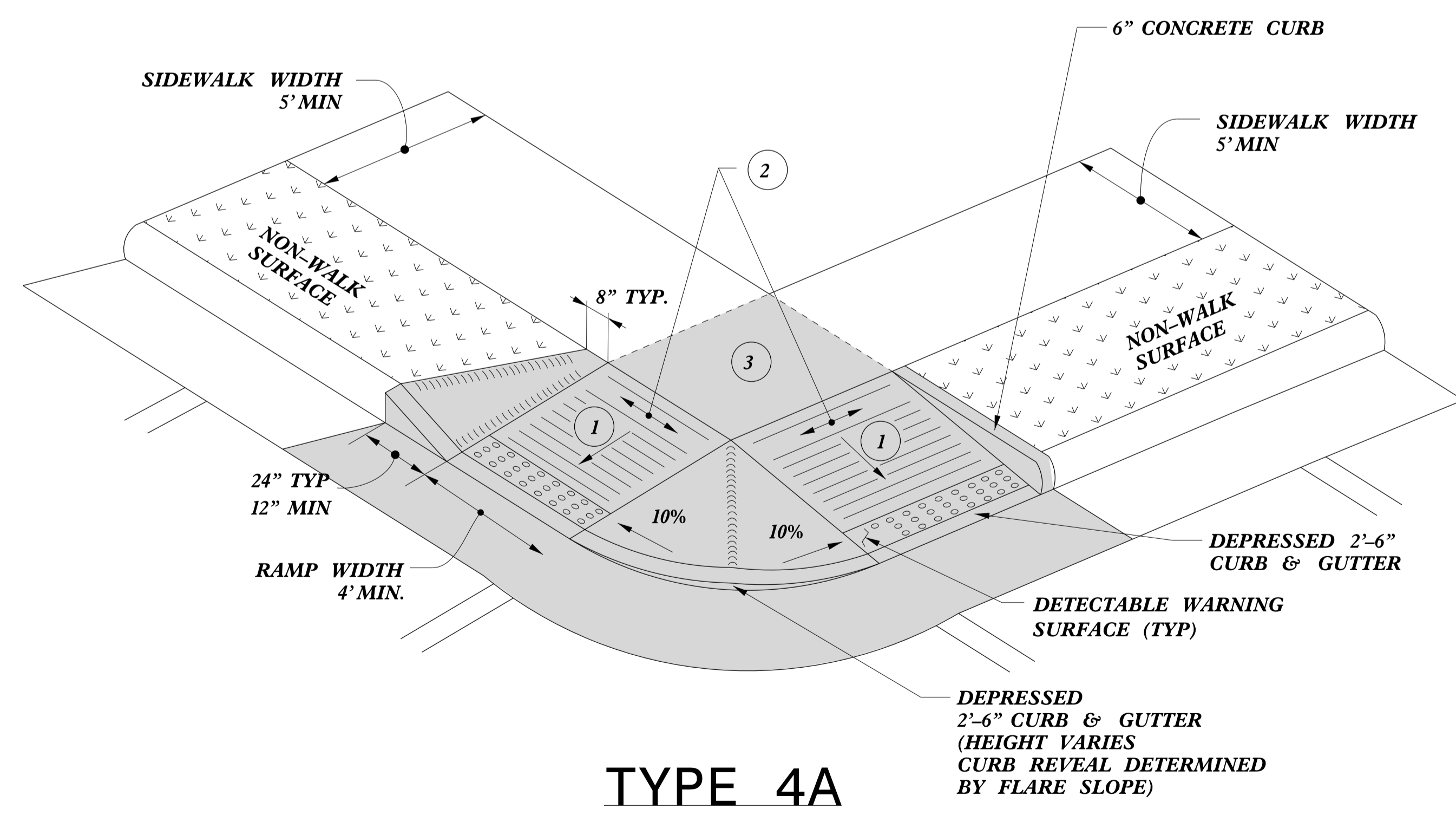




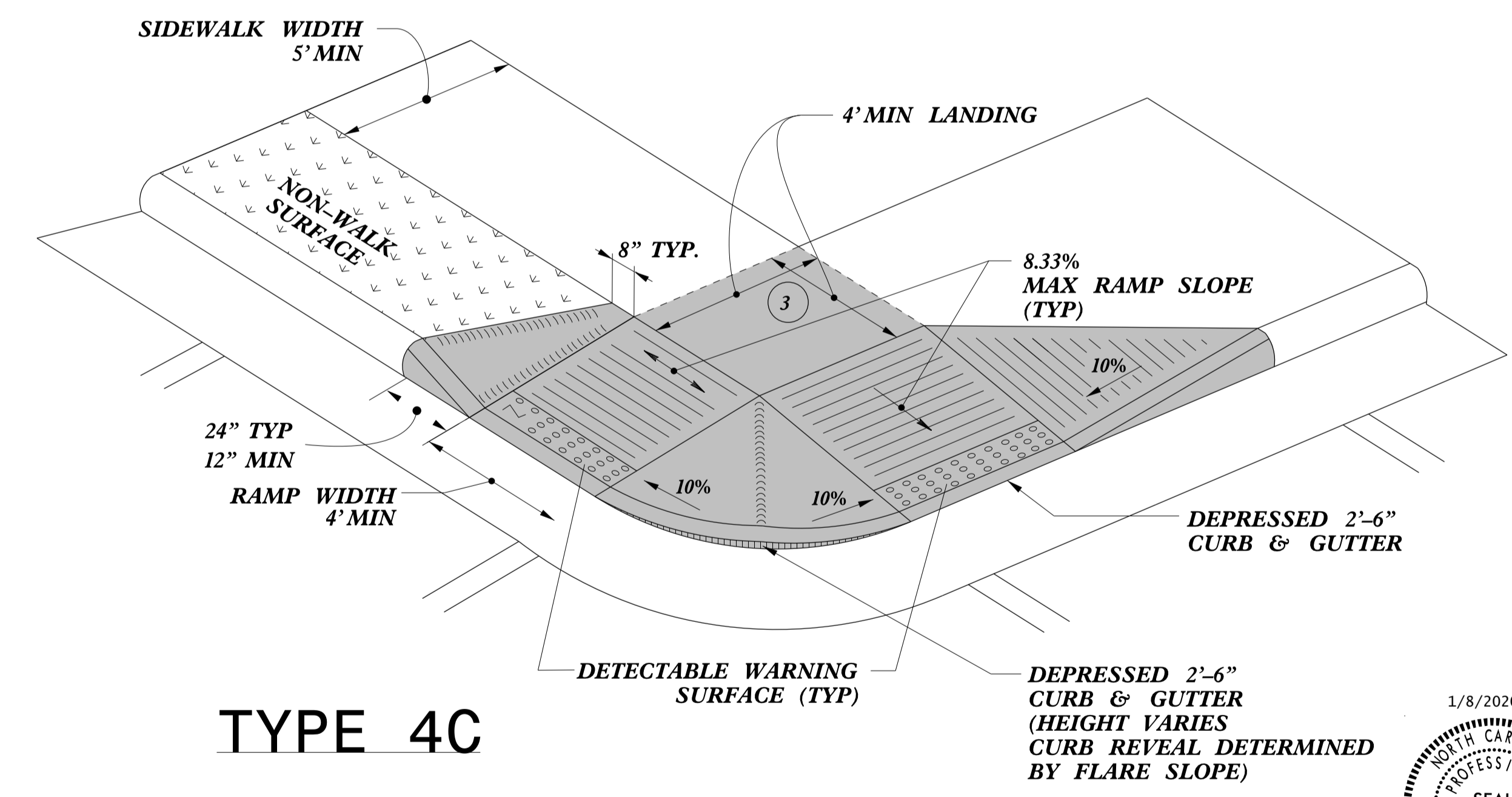
**TYPE 4**



**TYPE 4B**

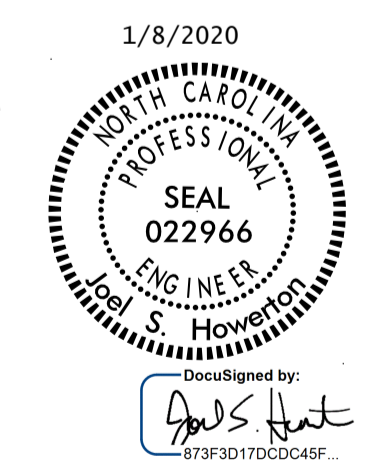


**TYPE 4A**



**TYPE 4C**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**CURB RAMPS**

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
 FILE SPEC: stds\2012CurbRamp\CurbRampDetails.dgn

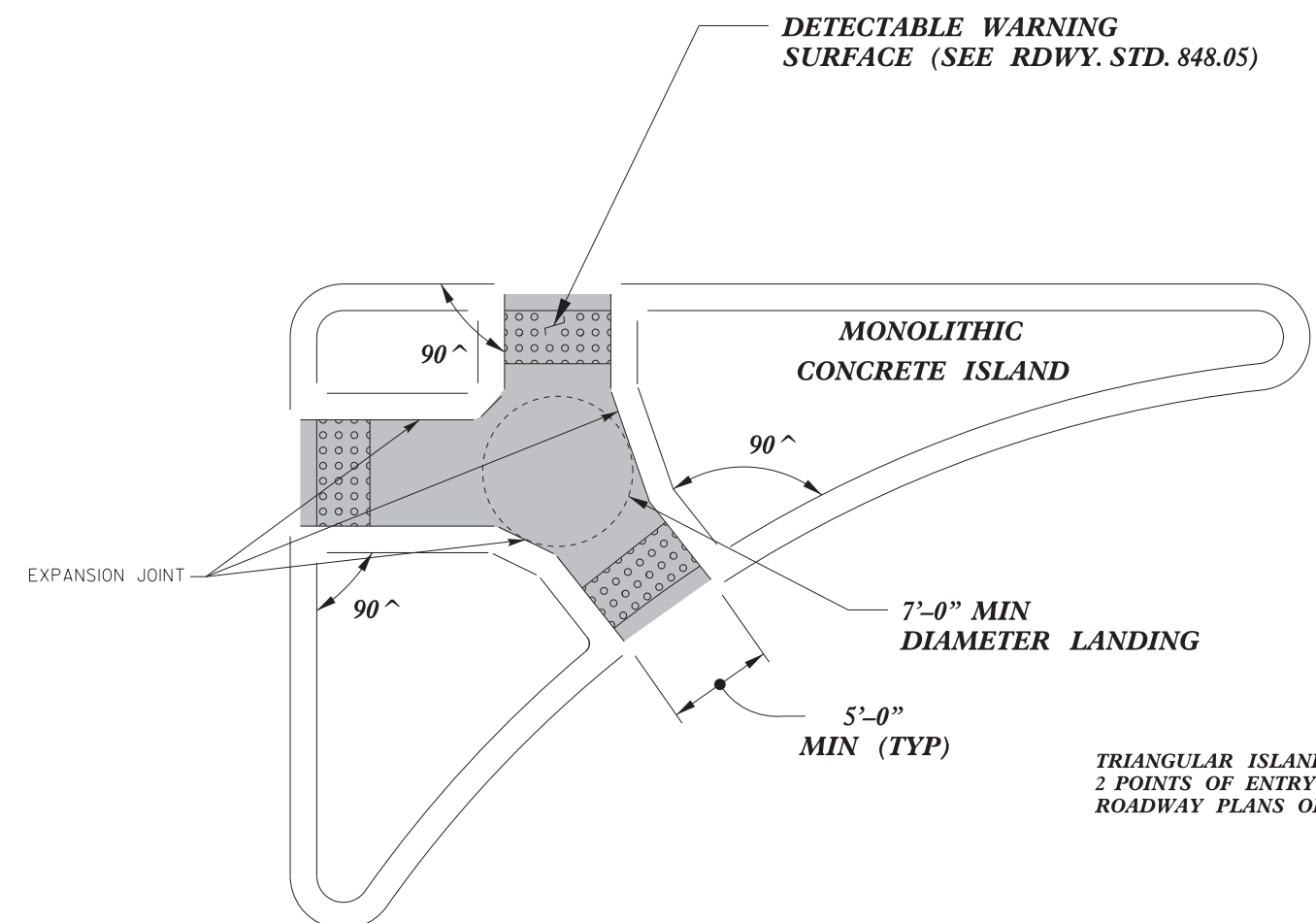
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99

C:\TIME\SSS\DRAWING\CONCRETE\SSS\CURB RAMPS\SSS\CURB RAMPS.dwg

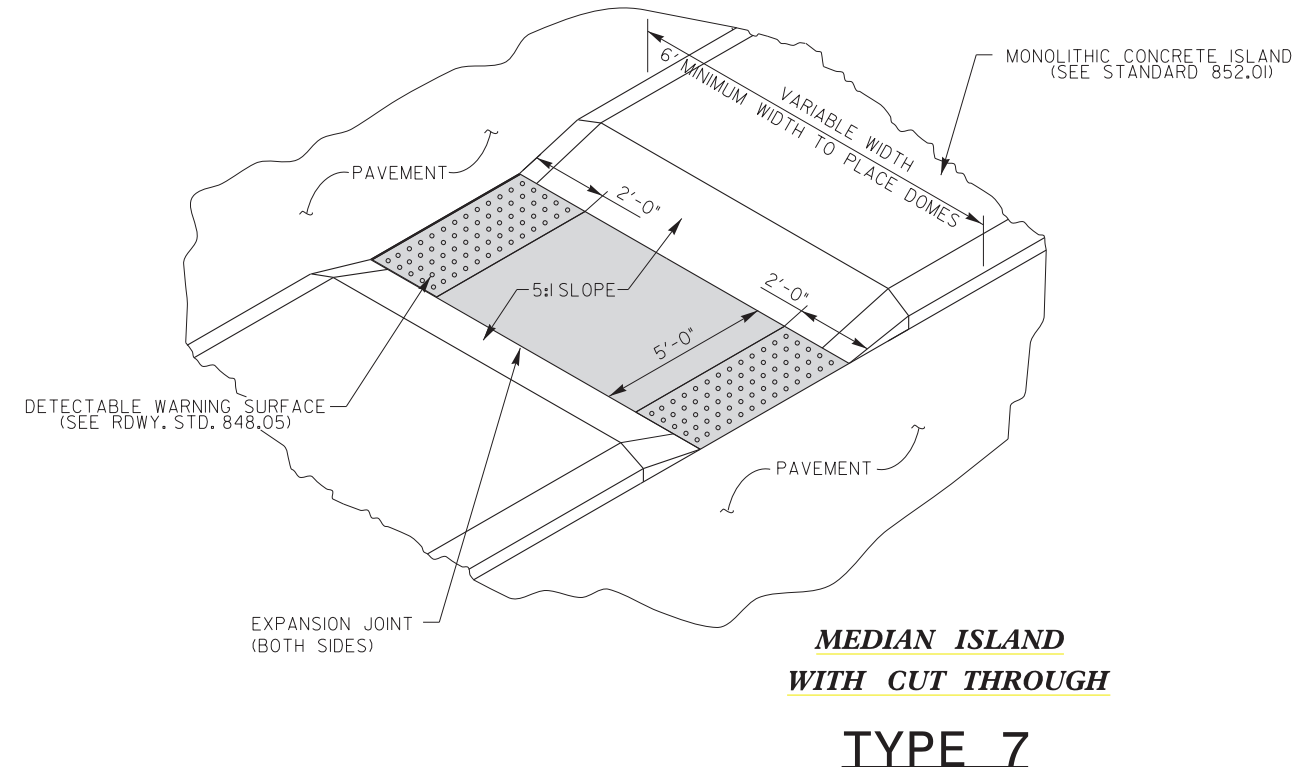


PAY LIMITS FOR 2 OR 3 CURB RAMPS  
(CALCULATE BASED ON NUMBER OF  
SETS OF TRUNCATED DOMES)

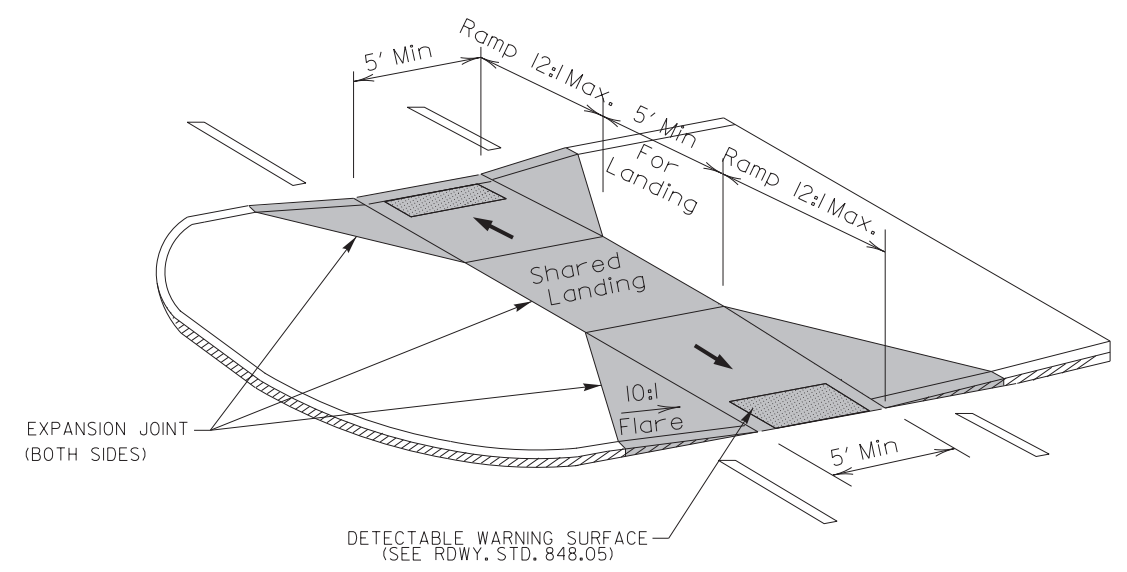


TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY  
2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE  
ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

**TRIANGULAR ISLAND  
WITH CUT THROUGH  
TYPE 6**



**MEDIAN ISLAND  
WITH CUT THROUGH  
TYPE 7**



**MEDIAN ISLAND  
CURB RAMPS  
TYPE 8  
1/8/2020**

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
Median or Turn Lane Islands	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.	sids/2012CurbRamp/CurbRampDetails.dgn

SEAL  
022966  
ENGINEER  
J. S. Howerton  
Reviewed by:  
*J. S. Howerton*  
873F3D17DCDC45F...

5/14/99  
\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$CON\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$

## SUMMARY OF QUANTITIES - S CHAVIS ST FROM NC 56 TO SR 1121

<b>Municipality:</b>	Franklinton
<b>Project Number:</b>	2022 Franklin
<b>WBS Number:</b>	2021CPT.05.18.20351.1, ETC
<b>County:</b>	Franklin

Ramp ID	Inset Map Number	Route 1	Route 2	261300000-N	Improvement Type
				Remove and Replace Curb Ramps EA	
550	1	NC-56 (E Green St)	S Chavis St	1	Type1A
<b>Sub-Total for S Chavis St From NC 56 To SR 1121</b>				<b>1</b>	

SUMMARY OF QUANTITIES

<b>Project Number:</b>	2022 Franklin
<b>WBS Number:</b>	2021CPT.05.18.20351.1, ETC
<b>County:</b>	Franklin

Project Number	County	Municipality	Resurfacing Route	2613000000-N
				Remove and Replace Curb Ramps EA
2022 Franklin	Franklin	Franklinton	S Chavis St From NC 56 To SR 1121	1
<b>GRAND TOTAL</b>				<b>1</b>

### SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURF. TEST. REQ'D	WARM MIX ASPH. REQ'D	LENGTH		BORROW	SH. GRADING	INC. STONE BASE	ASB	1½" MILLING	0" TO 1.5" MILLING	INC. MILLING	SURF. COURSE, S9.5B	ASPH. BINDER FOR PL.	PATCHING	REM.& REPL. CURB RAMPS	ADJ. OF MAN-HOLES	ADJ. OF METER OR VALVE BOX	TEMP. SILT FENCE	WATTL E	SEED & MULCHING	RE-SPONSE FOR EC																	
									MI	FT																		W	NG	TONS	TON	SY	SY	SY	TONS	TON	TONS	EA	EA	EA	LF	LF	AC	EA
									0106000	0264000																		2000000	126000	1297000	1308000	133000	1519000	1575000	170400	261300000	2830000	2845000000	600000	607101	6084000	61170..		
		1	BERT WINSTON RD. (SR 1133)	LONG MILL RD (SR 1134) - HICKS RD (SR 1125)	1	2	NO	NO	2.530	24-32	127	5.08	127	235			1,120	3,300	221	1,650		1		185	470	1.85	1																	
		2	NORTHBROOK DR. (SR 1970)	BERT WINSTON RD (SR 1133) - EOM	1	2	NO	NO	0.740	24	19	1.48	37	103	310	135	70	970	65	15				27	70	0.27	1																	
		3	DREAMCATCHER TRAIL (SR 1924)	FLEMING RD (SR 1132) - DREAMCATCHER TRL. (SR 1924)	2	2	NO	NO	0.990	18	99	1.98	49				155	805	54	470				144	360	1.44	1																	
		4	JEFFREY WAY (SR 1190)	NC 96 - EOM	2	2	NO	NO	0.100	20	10	0.20	5				115	110	7	55				14	40	0.14																		
		5	HILL ROAD (SR 1113)	CEDAR CREEK RD (SR 1116)	1	2	NO	NO	1.780	22	124	3.55	89	98			670	2,225	149	820				3	180	460	1.81	1																
		6	BALANCE ROCK RD. (SR 1247)	WILEY HAWKINS RD. (SR 1246) - EOM	2	2	NO	NO	0.670	18	17	1.34	34	93			160	550	37	105				24	70	0.24	1																	
		7	GENERAL GREEN RD. SR (1244)	WALTER GRISSOM RD. (SR 1243) - END OF PVMT.	1	2	NO	NO	1.360	20	68	2.72	68	126			56	1,515	102	585				99	250	0.99	1																	
		8	LEE BROOKS RD. (SR 1245)	BRIDGE RD. (SR 1003)	1	2	NO	NO	0.550	20	33	1.09	27	40			64	605	41	210				48	120	0.40	1																	
		9	S. CHAVIS ST. (SR 1120)	NC-56 - S. CHAVIS ST. (SR 1121)	2	2	NO	NO	0.720	21	65	1.44	36	13			60	610	41	100	1			94	240	0.94	1																	
		10	CARVER ST. (SR 1157)	S. CHAVIS ST. (SR 1120) - EOM	2	2	NO	NO	0.164	18	16	0.33	8				135	9	6					24	60	0.24																		
		11	S. CHAVIS ST./E. COLLEGE ST. (SR 1121)	S. CHAVIS ST (SR 1120) - S. CHAVIS (SR 1120) LOOP	2	2	NO	NO	0.491	20	44	0.98	25	9			125	445	30	275		1	3	64	170	0.64	1																	
		12	DOGWOOD LN (SR 1163)	S. CHAVIS ST. (SR 1120) - EOM	2	2	NO	NO	0.290	18	23	0.57	14	11				245	16	75				33	90	0.33																		
		13	PEACH ST. (SR 1159)	S. CHAVIS ST. (SR 1120) - EOM	2	2	NO	NO	0.300	18	24	0.59	15	11				245	16	95				35	90	0.35																		
		14	PERSON RD. SR (1433)	DUKE VALENTINE WYNNE RD (SR 1002) - ALERT RD. (SR 1407)	1	2	NO	NO	5.500	19-21	110	11.00	248	813	2,225		1,010	5,600	375	770				160	400	1.60	1																	
		15	HICKORY ROCK RD. (SR 1421)	NC 56 - WHITE LEVEL RD. (SR 1425)	1	2	NO	NO	2.490	20	50	4.98	125	368			425	2,720	182	120				73	190	0.73	1																	
		16	EARLIE COLLINS (SR 1469)	FISHING ROCK RD. (SR 1467)	1	2	NO	NO	1.820	19	36	3.63	91	268			390	1,900	127	10				53	140	0.53	1																	
		17	RUSSEL BLVD. (SR 1486)	DREW ST. (SR 1485) - LAKESIDE AVE. (SR 1487)	1	2	NO	NO	0.100	20	10	0.20	5				60	115	8	35		1		14	40	0.14																		
		18	DREW ST. (SR 1485)	NC 561 - EOM	1	2	NO	NO	0.160	20	16	0.33	8				60	175	12	8				24	60	0.24																		
		19	MARTINHILL DR. (SR 1167)	MOORES POND RD (SR 1106) - EOM	2	2	NO	NO	0.280	20	28	0.56	14				61	225	15	55				40	110	0.41																		
		20	OAKWOOD CT. (SR 1176)	MARTINHILL DR (SR 1167) - CDS	2	2	NO	NO	0.050	20	4	0.07	2					65	4	25				5	20	0.05																		
		21	FLEETWOOD CT. (SR 1168)	MARTINHILL DR (SR 1167) - CDS	2	2	NO	NO	0.070	20	7	0.13	3					90	6	35				10	30	0.10																		
		22	ARNOLD RD. (SR 1708)	NC98 - BARNETTE RD (SR 1707)	1	2	NO	NO	1.670	20	67	3.34	83	185			440	1,860	125	120				2	97	250	0.97	1																
		23	SUE KIM DR. (SR 1196)	SID MITCHELL RD (SR 1139) - CDS	1	2	NO	NO	0.240	20	24	0.48	12				100	305	20	60				35	90	0.35																		
		24	GLENDALE DR. (SR 1920)	HOLDEN RD (SR 1147) - CDS	1	2	NO	NO	0.360	20	36	0.72	18				60	415	28	175				53	140	0.53																		
		25	ANNE COURT (SR 1958)	WINDSONG LN (SR 1914) - CDS	1	2	NO	NO	0.080	20	8	0.15	4					130	9	7				11	30	0.11																		
		26	VICTORIA COURT (SR 1959)	WINDSONG LN (SR 1914) - CDS	1	2	NO	NO	0.100	20	10	0.20	5					140	9	6				14	40	0.14																		
		27	WINDSONG LANE (SR 1914)	NC 96 - EOM	1	2	NO	NO	0.600	20	60	1.19	30				66	640	43	115				87	220	0.87	1																	
		28	HARDWOOD DR. (SR 1279)	GRANVILLE COUNTY LINE - CDS	1	2	NO	NO	0.650	20	65	1.31	33					740	50	580				95	240	0.95	1																	
		29	HOLLY RIDGE CT. (SR 1280)	HARDWOOD DR. (SR 1279) - CDS	2	2	NO	NO	0.130	20	13	0.26	6					155	10	4				19	50	0.19																		
		30	BEECHNUT CT. (SR 1281)	HARDWOOD DR. (SR 1279) - CDS	2	2	NO	NO	0.053	20	5	0.11	3					75	5	35				8	20	0.08	1																	
		31	ALERT RD. (SR 1407)	PETE SMITH RD. (SR 1412) - WARREN CO. LINE	1	2	NO	NO	2.380	19	48	4.77	119	352			340	2,600	174	10				69	180	0.69	1																	
<b>TOTAL FOR PROJ NO. 2021CPT.05.18.20351.1</b>																																												
		32	HARDWOOD DR. (SR 1678)	FRANKLIN CL	1	2	NO	NO	0.052	20	5	0.10	3				100	80	5	60				8	20	0.08																		
<b>TOTAL FOR PROJ NO. 2021CPT.05.18.20391.1</b>																																												
		33	ALERT RD. (SR 1618)	WARREN CL-US 401	1	2	NO	NO	0.225	21	5	0.45	11	33				235	16	30				7	20	0.07																		
<b>TOTAL FOR PROJ NO. 2021CPT.05.18.20931.1</b>																																												
<b>GRAND TOTAL</b>																																												

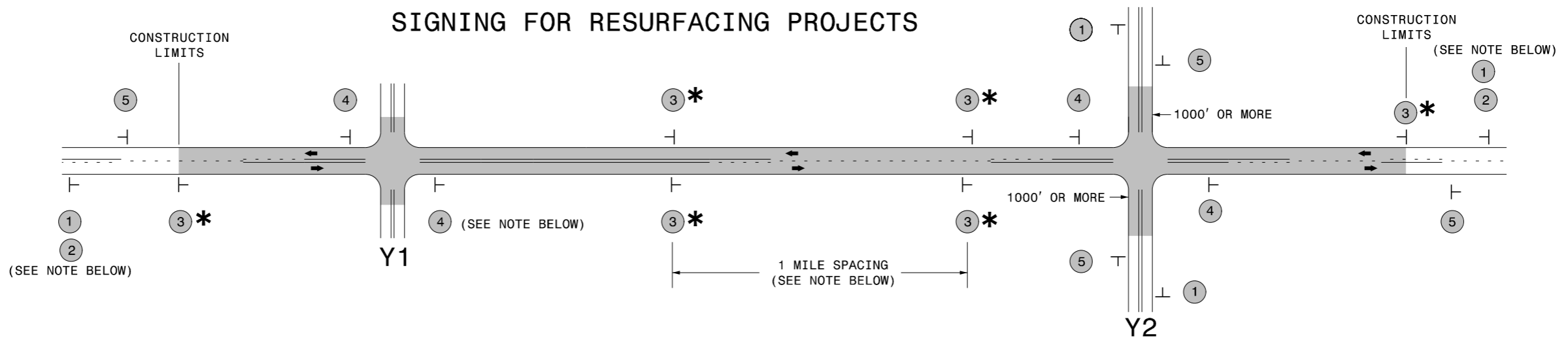
2021CPT.05.18.20351.1 Franklin



### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	441300000		WZ ADV/GEN. WARN. SIGNING	PED. CH. DEVI CES	TEMP. TRAFFIC CONTRO L	44470		44570000		468500000-E		46950000	47000000	472000000-E				47250000	48900000	489000..			
							MI	FT				SF	LF	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	12" X 90 M YELLOW THERMO	THERMO MSG RXR 90 M	THERMO MSG STOP 90 M	THERMO MSG SCHOOL 90 M	THERMO MSG AHEAD 90 M	THERMO LT ARROW 90 M	24" X 90 M WHITE THERMO	16" X 90 M WHITE THERMO					
							EA	EA				EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA				
							LF	LF				LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA				
		1	BERT WINSTON RD. (SR 1133)	LONG MILL RD (SR 1134) - HICKS RD (SR 1125)	1	2	2.530	24-32	284								26,116	26,116			4	4	12	5		150	100		
		2	NORTHBROOK DR. (SR 1970)	BERT WINSTON RD (SR 1133) - EOM	1	2	0.740	24	126										115										
		3	DREAMCATCHER TRAIL (SR 1924)	FLEMING RD (SR 1132) - DREAMCATCHER TRL. (SR 1924)	2	2	0.990	18	111																				
		4	JEFFREY WAY (SR 1190)	NC 96 - EOM	2	2	0.100	20	11																				
		5	HILL ROAD (SR 1113)	MAYS CROSSROADS RD (SR 1105) - CEDAR CREEK RD (SR 1116)	1	2	1.780	22	199								18,750	18,900		140					2				
		6	BALANCE ROCK RD. (SR 1247)	WILEY HAWKINS RD. (SR 1246) - EOM	2	2	0.670	18	75																				
		7	GENERAL GREEN RD. SR (1244)	WALTER GRISSOM RD. (SR 1243) - END OF PVMT.	1	2	1.360	20	152								14,600	14,500											
		8	LEE BROOKS RD. (SR 1245)	GENERAL GREEN RD. (SR 1244) - SIMS BRIDGE RD. (SR 1003)	1	2	0.550	20	61								5,800	5,800											
		9	S. CHAVIS ST. (SR 1120)	NC-56 - S. CHAVIS ST. (SR 1121)	2	2	0.720	19-21	81	36																			
		10	CARVER ST. (SR 1157)	S. CHAVIS ST. (SR 1120) - EOM	2	2	0.164	18	18																				
		11	S. CHAVIS ST./E. COLLEGE ST. (SR 1121 )	S. CHAVIS ST (SR 1120) - S. CHAVIS (SR 1120) LOOP	2	2	0.491	20	55																				
		12	DOGWOOD LN (SR 1163)	S. CHAVIS ST. (SR 1120) - EOM	2	2	0.290	18	32																				
		13	PEACH ST. (SR 1159)	S. CHAVIS ST. (SR 1120) - EOM	2	2	0.300	18	33																				
		14	PERSON RD. SR (1433)	DUKE VALENTINE WYNNE RD (SR 1002) - ALERT RD. (SR 1407)	1	2	5.500	19-21	616								59,074	59,060											
		15	HICKORY ROCK RD. (SR 1421)	NC 56 - WHITE LEVEL RD. (SR 1425)	1	2	2.490	20	279		*						27,636	26,320											
		16	EARLIE COLLINS (SR 1469)	WOOD CHAMPION RD (SR 1474) -FISHING ROCK RD. (SR 1467)	1	2	1.820	19	203								20,160	19,820											
		17	RUSSEL BLVD. (SR 1486)	DREW ST. (SR 1485) -LAKESIDE AVE. (SR 1487)	1	2	0.100	20	11																				
		18	DREW ST. (SR 1485)	NC 561 - EOM	1	2	0.160	20	18																				
		19	MARTINHILL DR. (SR 1167)	MOORES POND RD (SR 1106) - EOM	2	2	0.280	20	31																				
		20	OAKWOOD CT. (SR 1176)	MARTINHILL DR (SR 1167) - CDS	2	2	0.050	20	4																				
		21	FLEETWOOD CT. (SR 1168)	MARTINHILL DR (SR 1167) - CDS	2	2	0.070	20	7																				
		22	ARNOLD RD. (SR 1708)	NC98 - BARNETTE RD (SR 1707)	1	2	1.670	20	187								17,700	17,700											
		23	SUE KIM DR. (SR 1196)	SID MITCHELL RD (SR 1139) - CDS	1	2	0.240	20	27																				
		24	GLENDALE DR. (SR 1920)	HOLDEN RD (SR 1147) - CDS	1	2	0.360	20	41																				
		25	ANNE COURT (SR 1958)	WINDSONG LN (SR 1914) - CDS	1	2	0.080	20	8																				
		26	VICTORIA COURT (SR 1959)	WINDSONG LN (SR 1914) - CDS	1	2	0.100	20	11																				
		27	WINDSONG LANE (SR 1914)	NC 96 - EOM	1	2	0.600	20	67																				
		28	HARDWOOD DR. (SR 1279)	GRANVILLE COUNTY LINE - CDS	1	2	0.650	20	73																				
		29	HOLLY RIDGE CT. (SR 1280)	HARDWOOD DR. (SR 1279) - CDS	2	2	0.130	20	15																				
		30	BEECHNUT CT. (SR 1281)	HARDWOOD DR. (SR 1279) - CDS	2	2	0.053	20	6																				
		31	ALERT RD. (SR 1407)	PETE SMITH RD. (SR 1412) - WARREN CO. LINE	1	2	2.380	19	267								27,682	25,166											
<b>TOTAL FOR PROJ NO. 2021CPT.05.18.20351.1</b>							<b>27.418</b>		<b>3,109</b>	<b>36</b>							<b>217,518</b>	<b>213,382</b>	<b>115</b>	<b>140</b>	<b>4</b>	<b>4</b>	<b>12</b>	<b>5</b>	<b>2</b>	<b>150</b>	<b>100</b>		
																	<b>430,900</b>					<b>25</b>							
20	Gr	32	HARDWOOD DR. (SR 1678).	JOHN SANDLING RD (SR 1688) - FRANKLIN CL	1	2	0.052	20	6		*																		
<b>TOTAL FOR PROJ NO. 2021CPT.05.18.20391.1</b>							<b>0.052</b>		<b>6</b>																				
20	W	33	ALERT RD. (SR 1618)	WARREN CL-US 401	1	2	0.225	19-21	25		*						2,400	2,400											
<b>TOTAL FOR PROJ NO. 2021CPT.05.18.20931.1</b>							<b>0.225</b>		<b>25</b>									<b>2,400</b>	<b>2,400</b>										
																	<b>4,800</b>												
<b>GRAND TOTAL</b>							<b>27.695</b>		<b>3,140</b>	<b>36</b>	<b>1</b>						<b>219,918</b>	<b>215,782</b>	<b>115</b>	<b>140</b>	<b>4</b>	<b>4</b>	<b>12</b>	<b>5</b>	<b>2</b>	<b>150</b>	<b>100</b>		
																	<b>435,700</b>					<b>25</b>							

## SIGNING FOR RESURFACING PROJECTS



**LEGEND**  
 | STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW

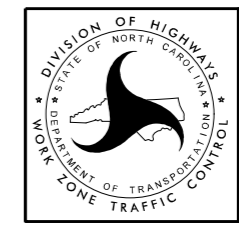
### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	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 style="text-align: center; font-size: small;">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; font-size: small;">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.		

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

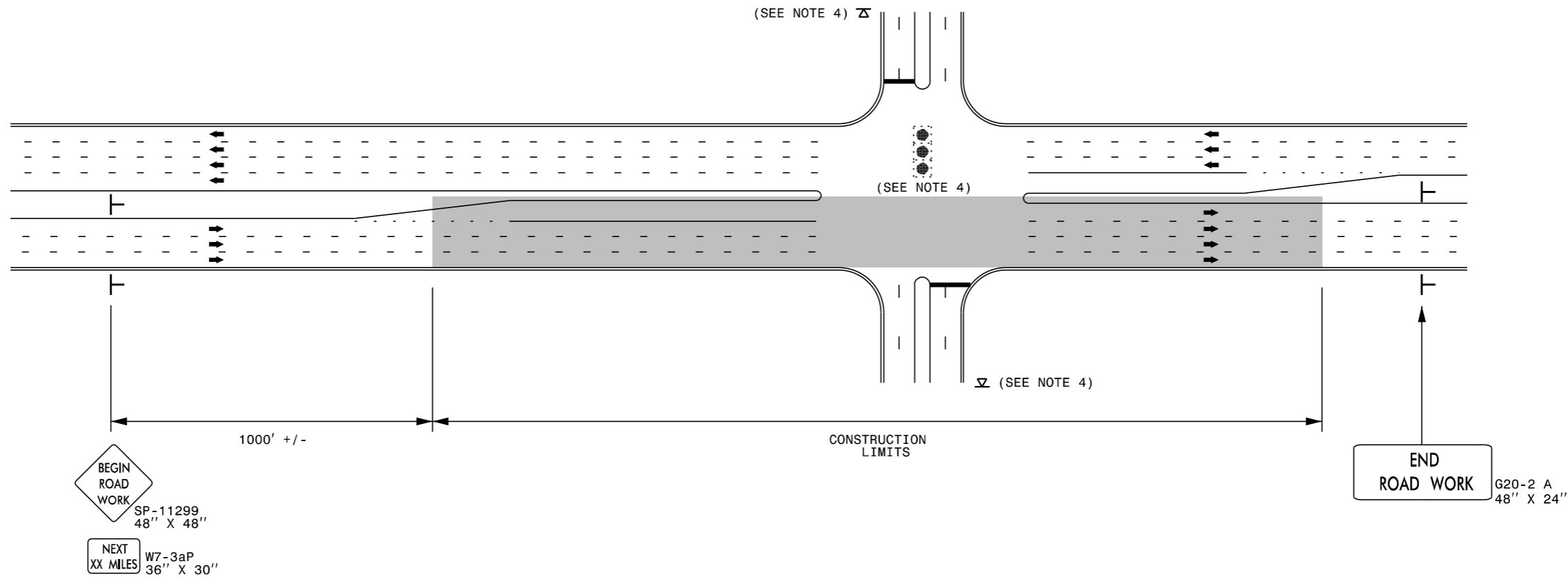
SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS: STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



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

6/7/2014 10:17:30 AM W:\ZTC\apps\workzonegenerator\externalwebpage\desres\documents\resurfacing\resurfacing\_advwarn\_2ln.dgn User:mgarrrett

## URBAN / SUBURBAN WORKZONES



**NOTES:**

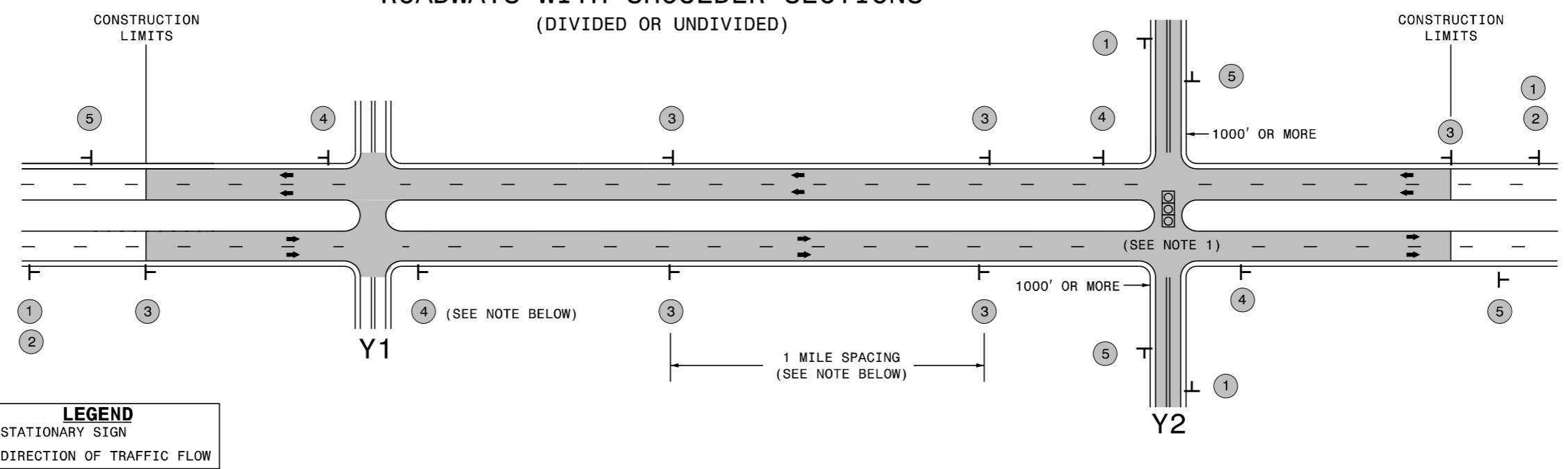
- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. 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**

## SIGNING FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS WITH SHOULDER SECTIONS (DIVIDED OR UNDIVIDED)



### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	1	 W20-1 48" X 48"	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 style="text-align: center;">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;">  W20-1 48" X 48"           </div> <div style="text-align: center;">  W20-7 A 48" X 48"           </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1) 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.</li> </ol>
	2	 W7-3aP 24" X 18"	#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	 SP 13107 48" X 48"	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	 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.	
5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

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

**RESURFACING  
ADVANCE WARNING SIGNS  
FOR RURAL AND SUBURBAN  
MULTI-LANE ROADWAYS  
W/ SHOULDER SECTIONS**

2/24/2014 10:17:11 AM W:\TTC\Resurfacing\2013\Documents\New\_Procedures\_05\_09\_2013\Resurfacing\_AdvWarn\_LrSu\_Shldr.dgn User:mgarratt

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**

---



---



---

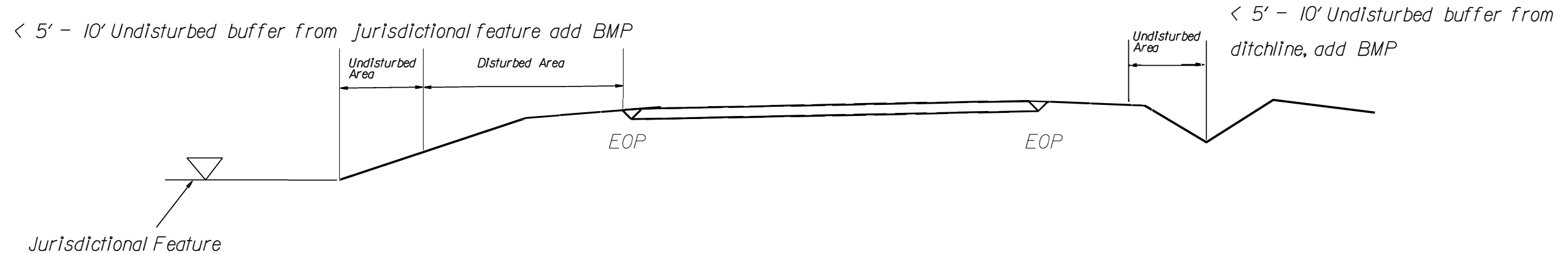
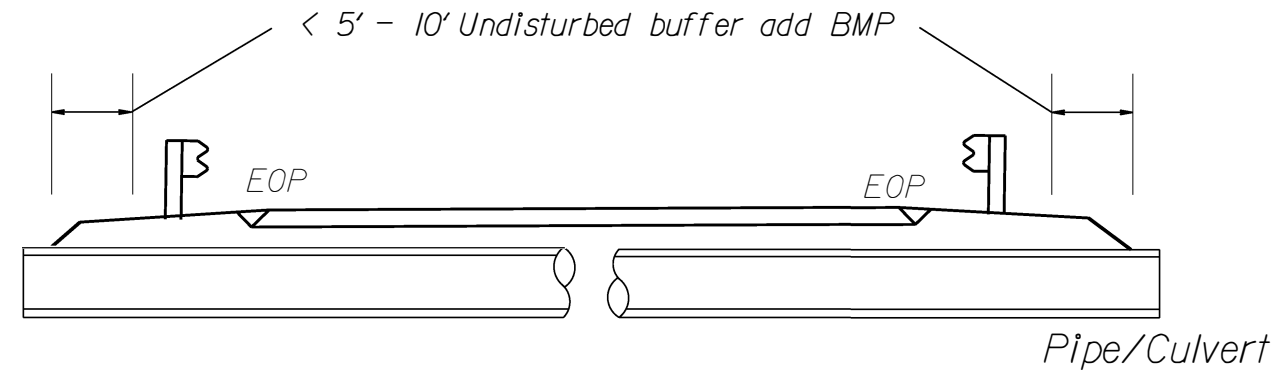
***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
<b>PERIMETER DIKES, SWALES, DITCHES AND SLOPES</b>	<b>7 DAYS</b>	<b>NONE</b>
<b>HIGH QUALITY WATER (HOW) ZONES</b>	<b>7 DAYS</b>	<b>NONE</b>
<b>SLOPES STEEPER THAN 3:1</b>	<b>7 DAYS</b>	<b>IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.</b>
<b>SLOPES 3:1 OR FLATTER</b>	<b>14 DAYS</b>	<b>7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.</b>
<b>ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1</b>	<b>14 DAYS</b>	<b>NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.</b>

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

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

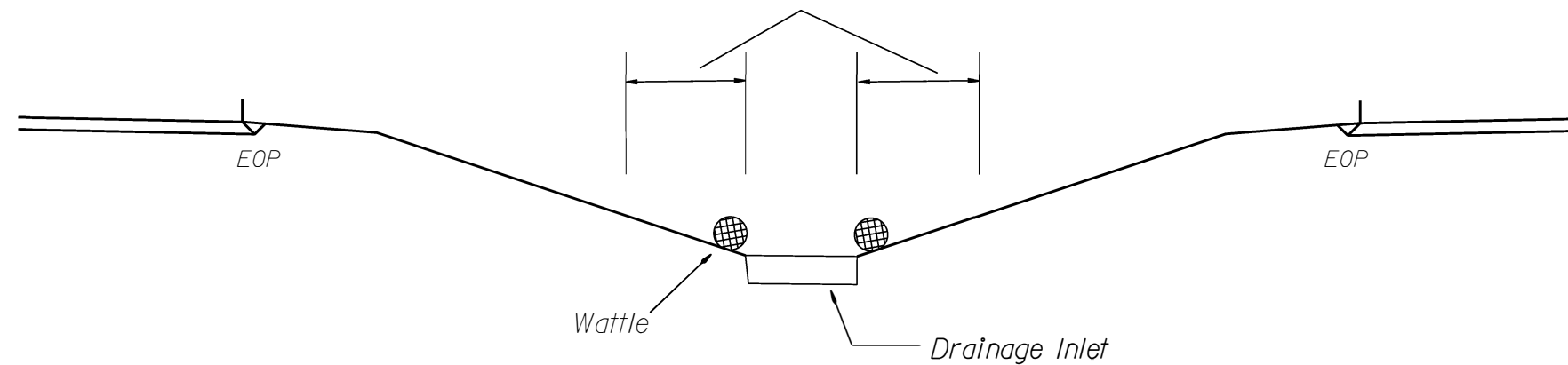
# EROSION CONTROL DETAIL



Use BMP's if shoulders and/or front slopes and/or ditchline and/or backslopes are disturbed

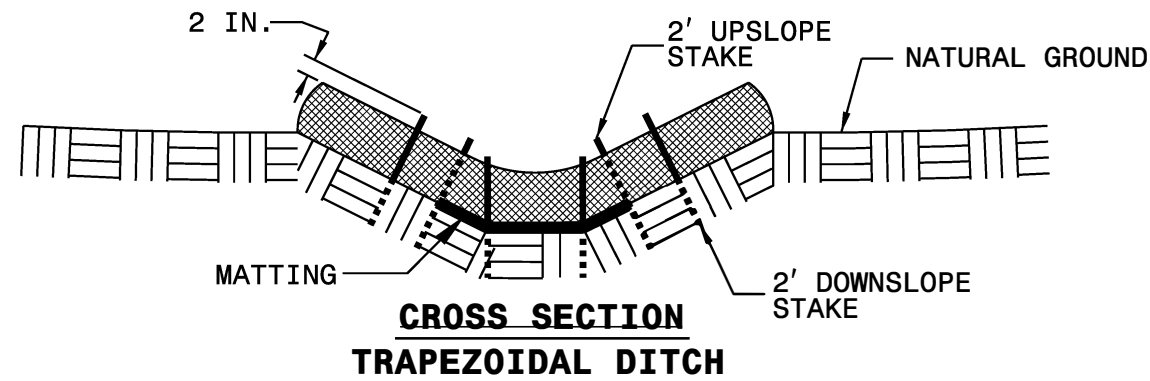
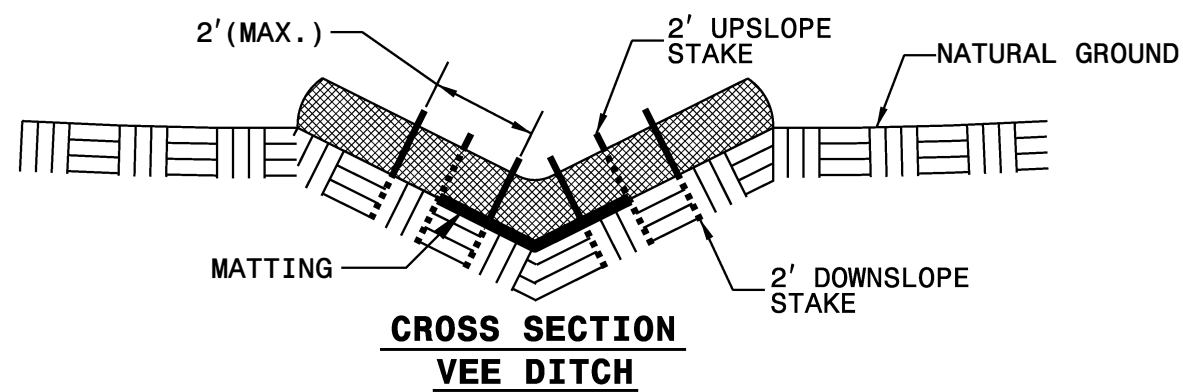
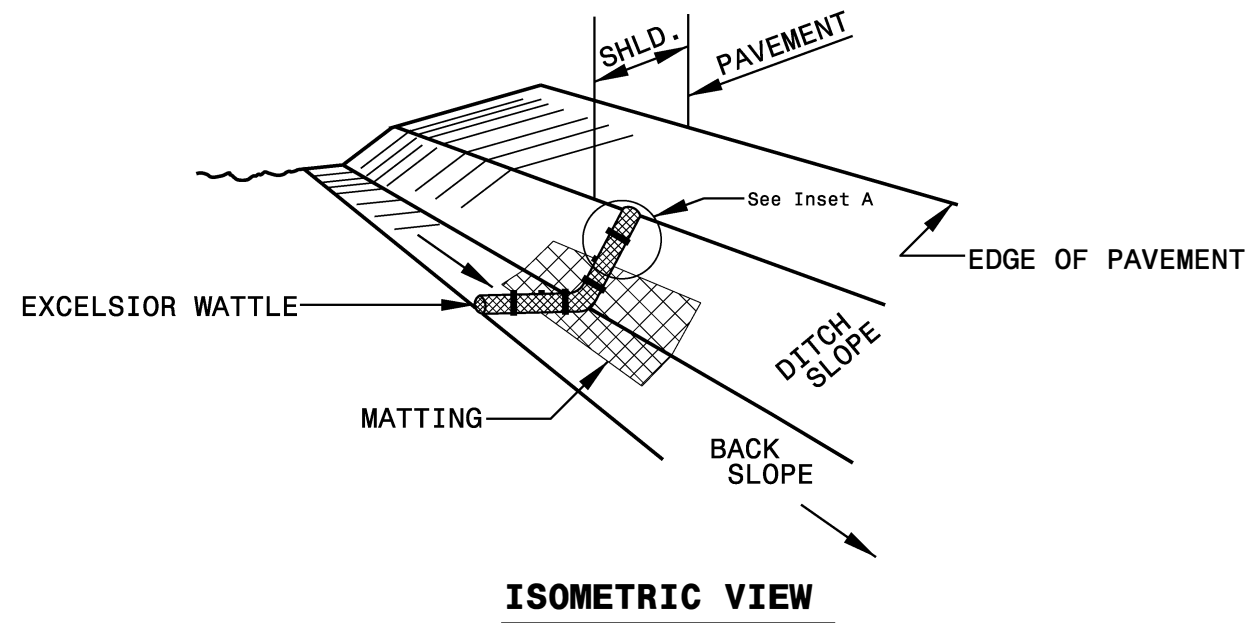


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

# WATTLE DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

