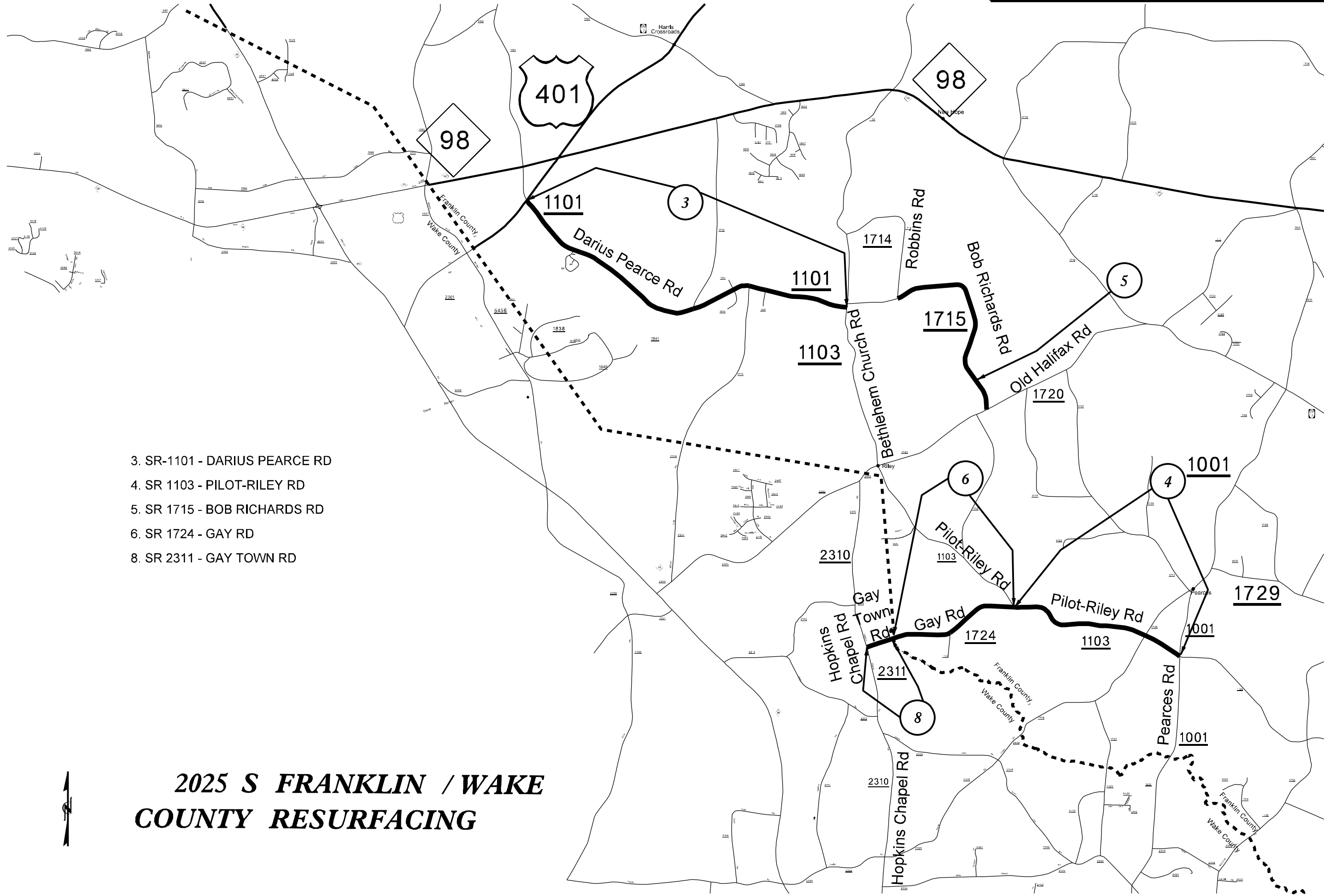


**2025 S FRANKLIN / WAKE
COUNTY RESURFACING**



5/14/24
 TOWN OF ZEBULON
 DEPARTMENT OF PUBLIC WORKS
 PROJECT #2024CPT.05.02.10351.1

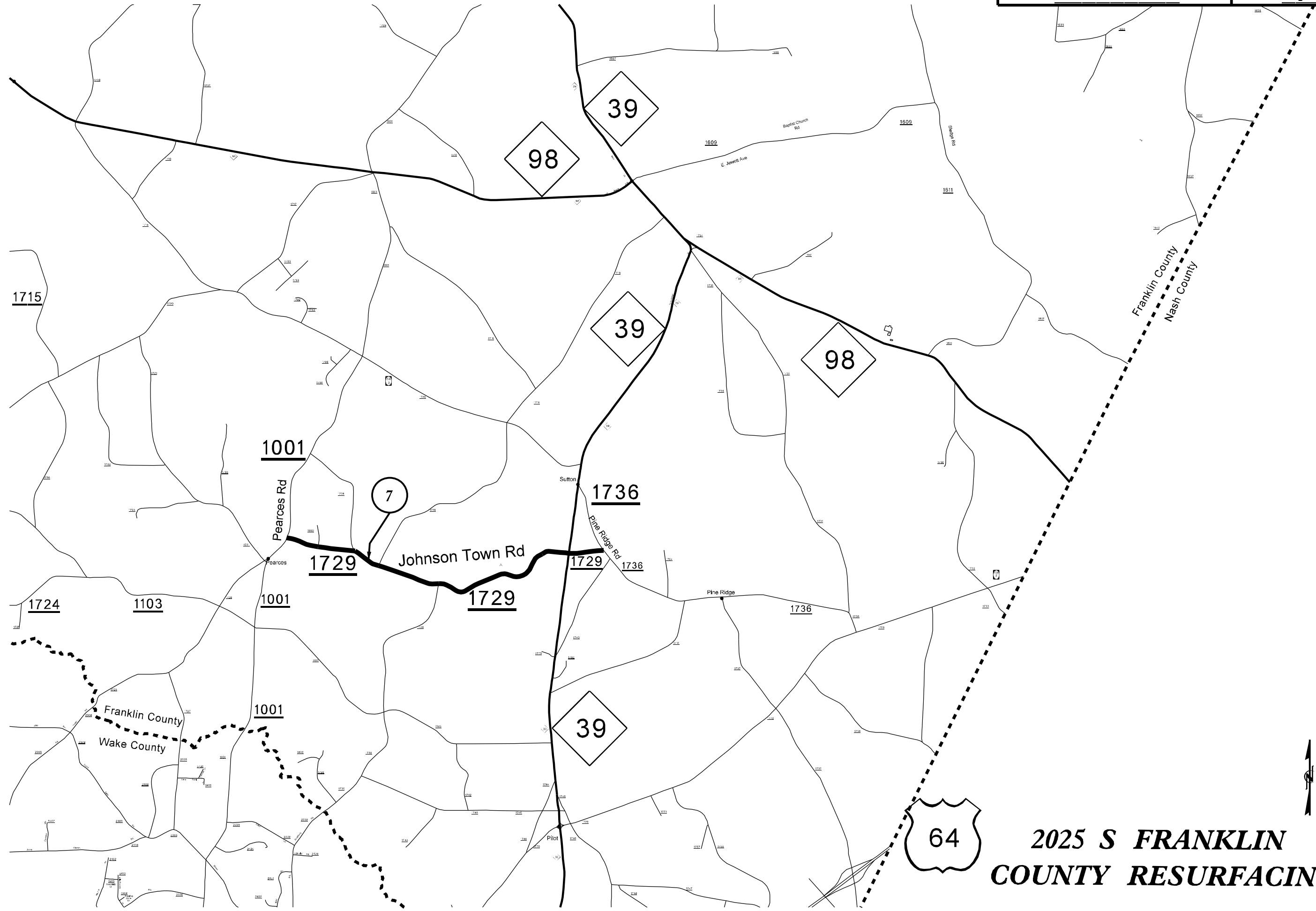


- 3. SR-1101 - DARIUS PEARCE RD
- 4. SR 1103 - PILOT-RILEY RD
- 5. SR 1715 - BOB RICHARDS RD
- 6. SR 1724 - GAY RD
- 8. SR 2311 - GAY TOWN RD

**2025 S FRANKLIN / WAKE
COUNTY RESURFACING**



5/14/25



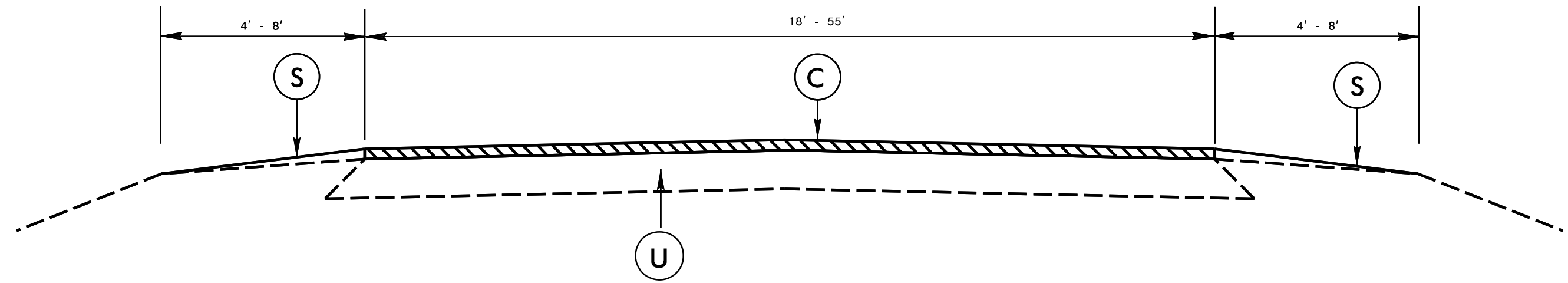
**2025 S FRANKLIN
COUNTY RESURFACING**

5/14/25

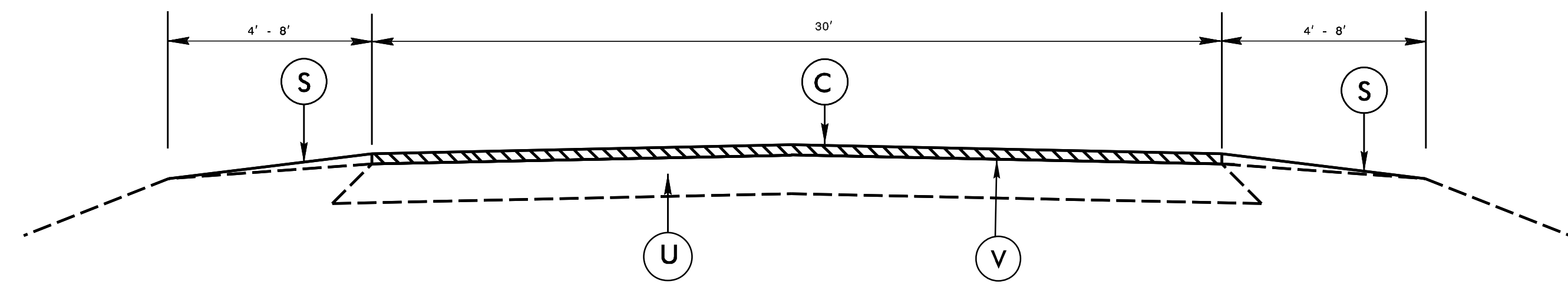
PAVEMENT SCHEDULE

C	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	S	SHOULDER RECONSTRUCTION ASB REQUIRED
E	5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE DEPTH OF 627 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
		V	1½" MILLING

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.05.02.10351.1, ETC.	4



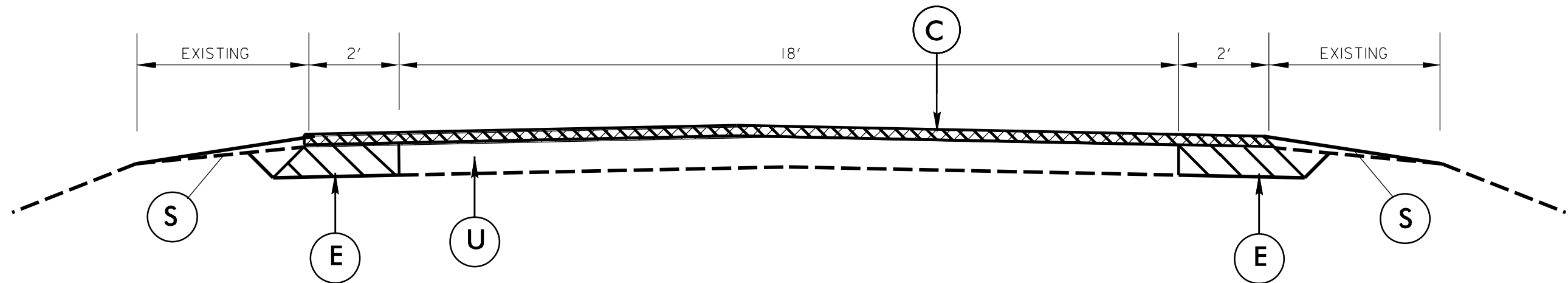
TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2

PAVEMENT SCHEDULE		S	SHOULDER RECONSTRUCTION ASB REQUIRED
C	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
E	5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE DEPTH OF 627 LBS. PER SQ. YD.	V	1½" MILLING

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.05.02.10351.1, ETC.	5



TYPICAL SECTION NO.3

* Widen map # 3

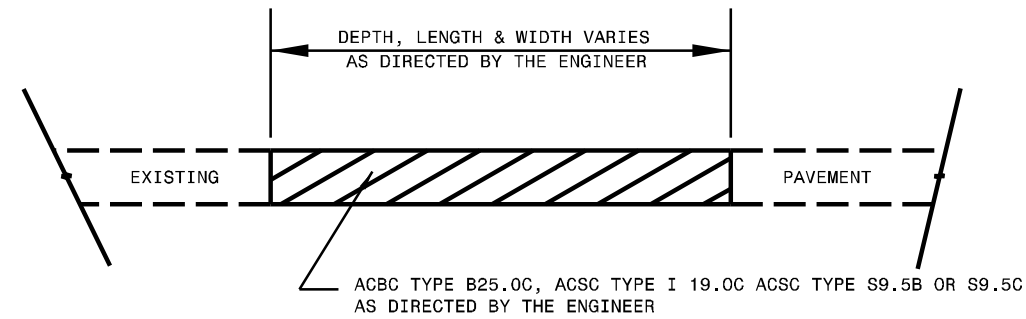
NOTE: PROVIDE A SAFE SHOULDER AFTER WIDENING OPERATION AS DIRECTED BY ENGINEER.

FULL SHOULDER RECONSTRUCTION SHALL BE ACCOMPLISHED AFTER RESURFACING.

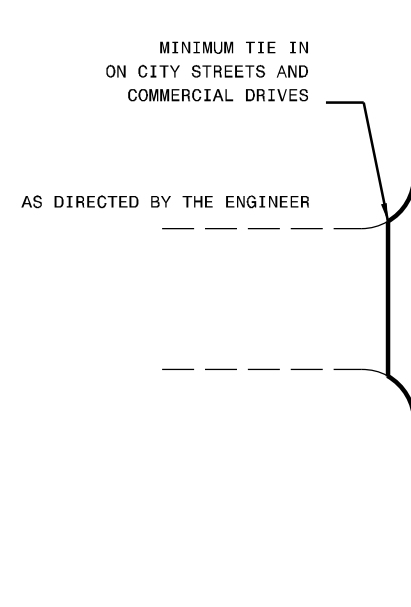
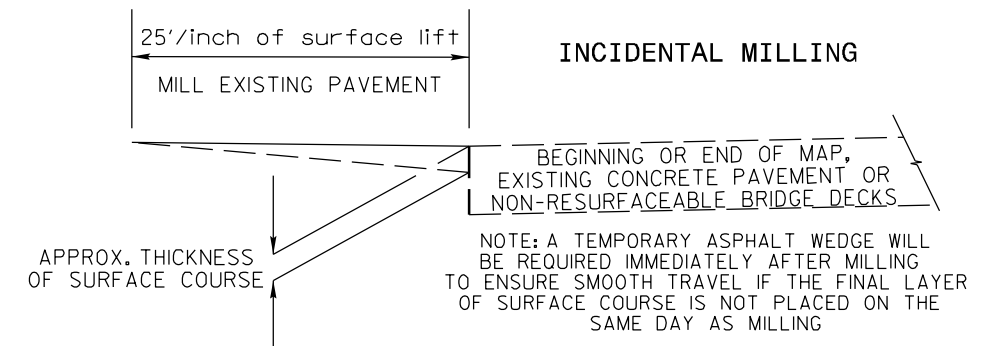
CONTRACTOR MUST CUT WEEP HOLES DURING WIDENING.

NOTES

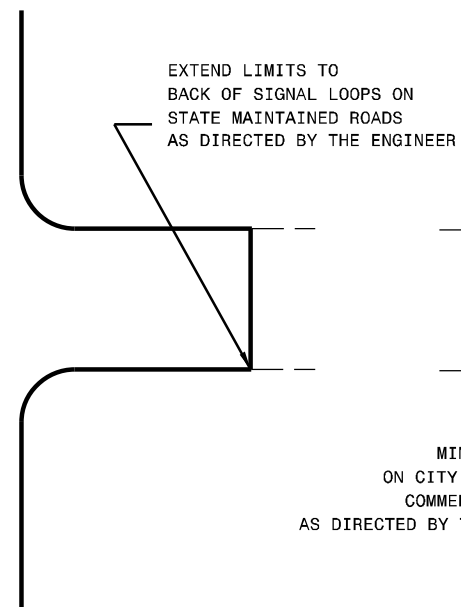
ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER. EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES. BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



PATCHING EXISTING PAVEMENT
MILLING TO BE PERFORMED PRIOR TO PATCHING

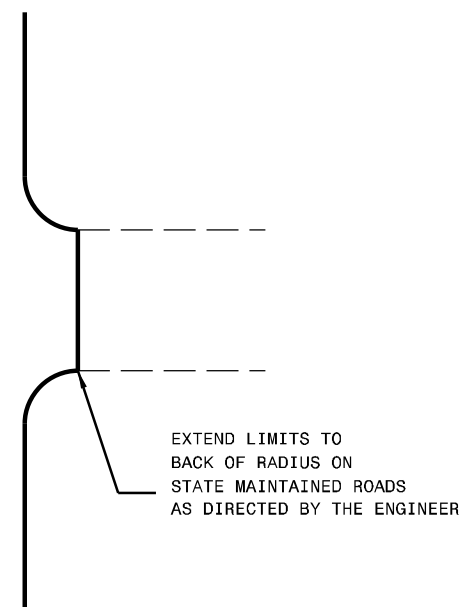


DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES



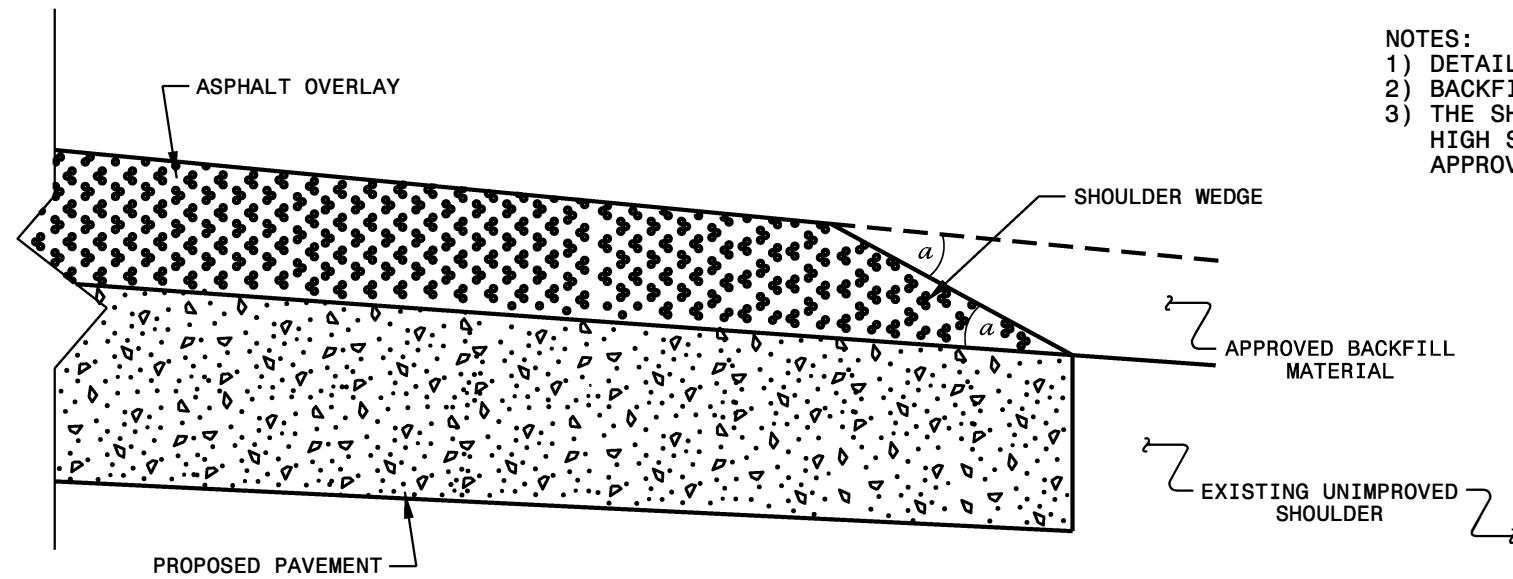
MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES AS DIRECTED BY THE ENGINEER

DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES



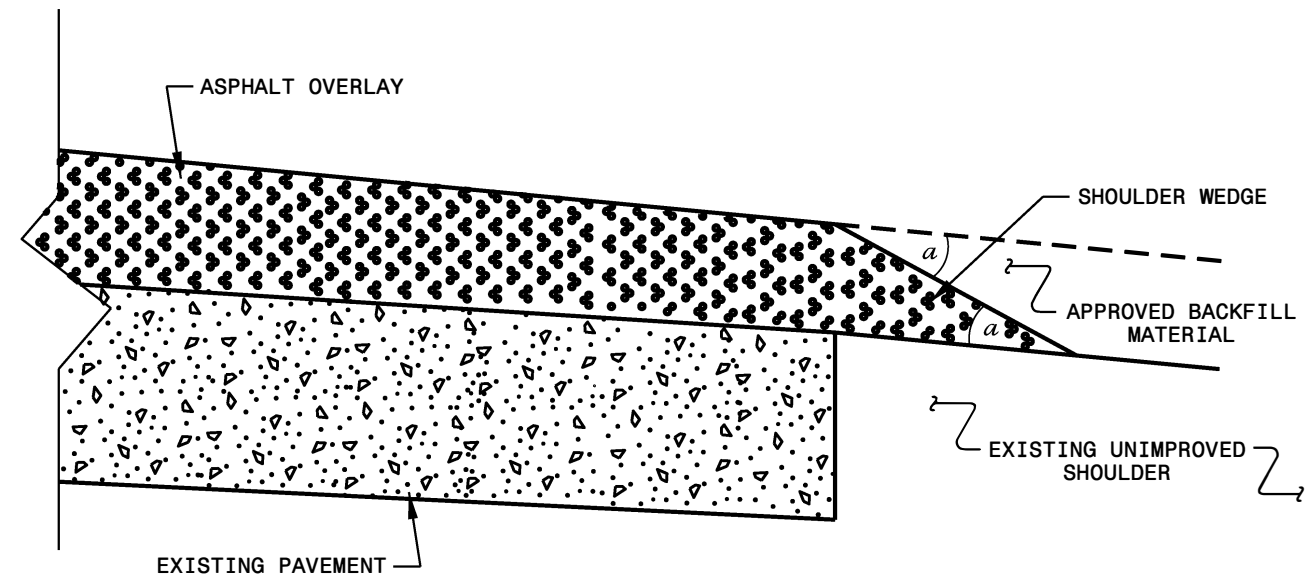
NOTES:

- 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.



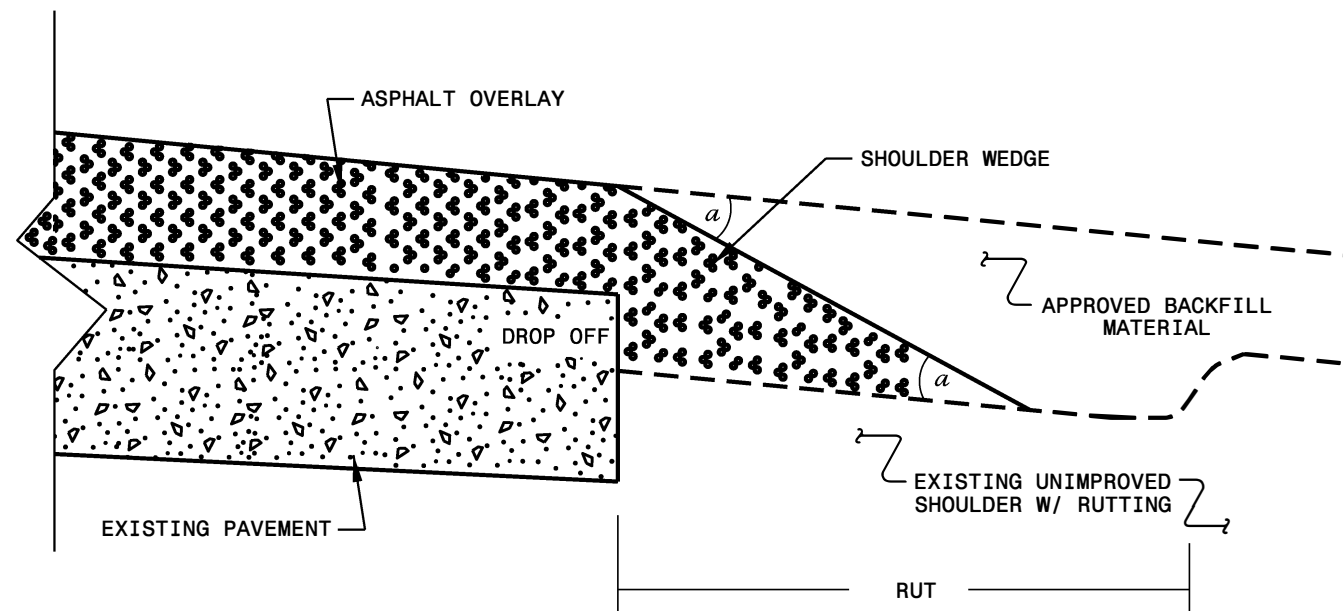
SHOULDER WEDGE DETAIL

(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°

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: 2/2/16
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn	

PROJECT NO.	SHEET NO.	TOTAL NO.
2024CPT.05.02.10351.1, etc	8	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1220000000-E	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1491000000-E	1519000000-E	1575000000-E	1704000000-E	6000000000-E	6071010000-E	6084000000-E	6117000000-N	
											INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	1½" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	
									MI	FT	TONS	SMI	TON	SY	SY	TONS	TONS	TON	TONS	LF	LF	AC	EA	
2024CPT.05.02.10351.1	Franklin	1	NC-39	WAKE COUNTY TO US 64	2	2	NO	NO	0.71	30	35	1.41	130	12,496	1,054		1,178	79						
TOTAL FOR PROJ NO. 2024CPT.05.02.10351.1									0.71		35	1.41	130	12,496	1,054		1,178	79						
2024CPT.05.02.10921.1	Wake	2	NC-39	US 264 TO FRANKLIN COUNTY	1	2	NO	NO	2.13	24	107	4.27	839		155		2,969	203	80					
TOTAL FOR PROJ NO. 2024CPT.05.02.10921.1									2.13		107	4.27	839		155		2,969	203	80					
2024CPT.05.02.20351.1	Franklin	3	SR-1101 / DARIUS PEARCE RD	US 401 TO SR 1103 - BETHLEHEM CHURCH RD	3	2	NO	NO	3.07	18	307	1.23	113		923	2,909	2,936	328	10	446	1,120	4.00	1	
2024CPT.05.02.20351.1	Franklin	4	SR-1103 / PILOT-RILEY RD	SR 1001 - PEARCES RD TO GAY RD	1	2	NO	NO	1.49	20	74	2.97	137		468		1,536	105	49					
2024CPT.05.02.20351.1	Franklin	5	SR-1715 / BOB RICHARDS RD	SR 1714 - ROBBINS RD TO SR 1720 - OLD HALIFAX RD	1	2	NO	NO	1.66	20	83	3.32	307		400		1,723	118	54					
2024CPT.05.02.20351.1	Franklin	6	SR-1724 / GAY RD	SR-1103 / PILOT-RILEY RD TO WAKE COUNTY	1	2	NO	NO	1.1	20	55	2.21	204		156		1,125	76	10					
2024CPT.05.02.20351.1	Franklin	7	SR-1729 / JOHNSON TOWN RD	SR 1736 - PINE RIDGE RD TO SR 1001 - PEARCES RD	1	2	NO	NO	2.8	20	140	5.60	517		1,427		2,753	190	120					
TOTAL FOR PROJ NO. 2024CPT.05.02.20351.1									10.12		659	15.33	1,278		3,374	2,909	10,073	817	243	446	1,120	4.00	1	
2024CPT.05.02.20921.1	Wake	8	SR-2311 / GAY TOWN RD	SR 2310 - HOPKINS CHAPEL TO FRANKLIN CO	1	2	NO	NO	0.21	20	10	0.41	38		342		215	15	10					
TOTAL FOR PROJ NO. 2024CPT.05.02.20921.1									0.21		10	0.41	38		342		215	15	10					
GRAND TOTAL									13.17		811	21.42	2,285		12,496	4,925	2,909	14,435	1,114	333	446	1,120	4.00	1

PROJECT NO.	SHEET NO.	TOTAL NO.
2024CPT.05.02.10351.1, etc	9	

THERMOPLASTIC AND PAINT QUANTITIES

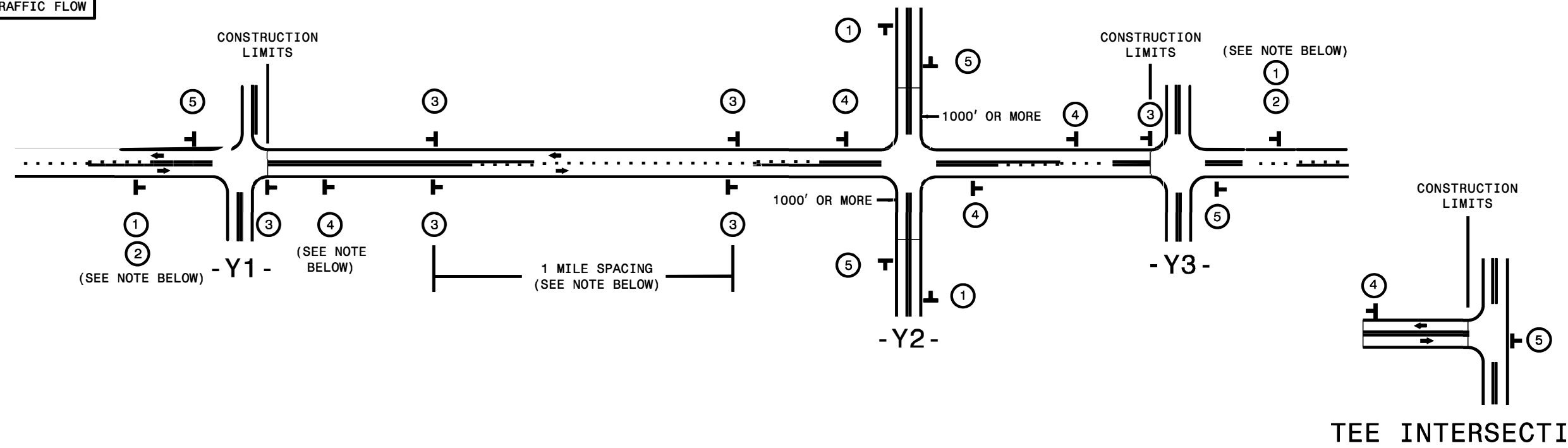
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4413000000-E WORK ZONE ADVANCE/GE NERAL WARNING SIGNING	4457000000-N TEMPORARY TRAFFIC CONTROL	4685000000-E		4695000000-E	4709000000-E	4725000000-E				4770000000-E		4850000000-E	4905100000-N	
											4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	THERMO RT ARROW 90 M	THERMO STR & LT ARROW 90 M	THERMO LT ARROW 90 M	THERMO LT STR RT ARROW 90 M	4" WHITE COLD APPLIED PLASTIC, TYPE II	4" YELLOW COLD APPLIED PLASTIC, TYPE II	4" LINE REMOVAL	NON-CAST IRON SNOWPLOWA BLE PAVEMENT MARKER	
							MI	FT	SF	LS	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	LF	EA	
2024CPT.05.02.10351.1	Franklin	1	NC-39	WAKE COUNTY TO US 64	2	2	0.71	30	126	*	7,640	7,498	173		1	1			548	548	1,096	50	
TOTAL FOR PROJ NO. 2024CPT.05.02.10351.1							0.71		126			7,640	7,498	173		1	1			548	548	1,096	50
											15,138				2				1,096				
2024CPT.05.02.10921.1	Wake	2	NC-39	US 264 TO FRANKLIN COUNTY	1	2	2.13	24	239	*	22,919	22,492		80	2		2		520	520	1,284	143	
TOTAL FOR PROJ NO. 2024CPT.05.02.10921.1							2.13		239			22,919	22,492		80	2		2		520	520	1,284	143
											45,411				4				1,040				
2024CPT.05.02.20351.1	Franklin	3	SR-1101 / DARIUS PEARCE RD	US 401 TO SR 1103 - BETHLEHEM CHURCH RD	3	2	3.07	18	343	*	33,033	32,420		18				1					
2024CPT.05.02.20351.1	Franklin	4	SR-1103 / PILOT-RILEY RD	SR 1001 - PEARCES RD TO GAY RD	1	2	1.49	20	166		16,032	15,734											
2024CPT.05.02.20351.1	Franklin	5	SR-1715 / BOB RICHARDS RD	SR 1714 - ROBBINS RD TO SR 1720 - OLD HALIFAX RD	1	2	1.66	20	186		17,862	17,530											
2024CPT.05.02.20351.1	Franklin	6	SR-1724 / GAY RD	SR-1103 / PILOT-RILEY RD TO WAKE COUNTY	1	2	1.1	20	124		11,836	11,616											
2024CPT.05.02.20351.1	Franklin	7	SR-1729 / JOHNSON TOWN RD	SR 1736 - PINE RIDGE RD TO SR 1001 - PEARCES RD	1	2	2.8	20	313		30,128	29,568							1				
TOTAL FOR PROJ NO. 2024CPT.05.02.20351.1							10.12		1,132		108,891	106,868		18				1					
											215,759				1								
2024CPT.05.02.20921.1	Wake	8	SR-2311 / GAY TOWN RD	SR 2310 - HOPKINS CHAPEL TO FRANKLIN CO	1	2	0.21	20	24	*	2,260	2,218											
TOTAL FOR PROJ NO. 2024CPT.05.02.20921.1							0.21		24			2,260	2,218										
											4,478												
GRAND TOTAL							13.17		1,521	1.00	141,710	139,076	173	98	3	1	2	1	1,068	1,068	2,380	193	
											280,786				7			2,136					

SIGNING FOR RESURFACING PROJECTS

LEGEND

▬ STATIONARY SIGN

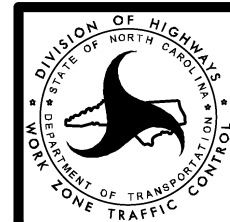
← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	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>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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	②	 W7-3aP 24" X 18"	#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)	
	③	 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	 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	 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.	
<p>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.</p>				
MAPS LESS THAN 2 MILES		<p>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.</p>		



ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

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

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

SOIL STABILIZATION TIMEFRAMES

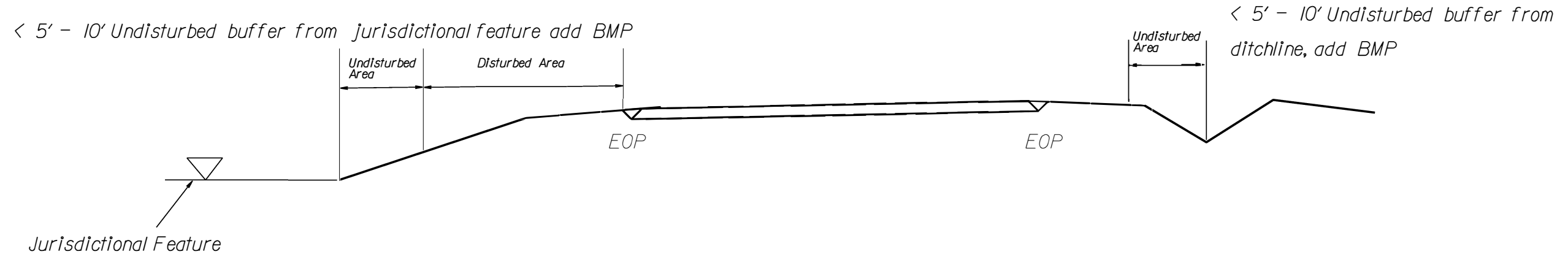
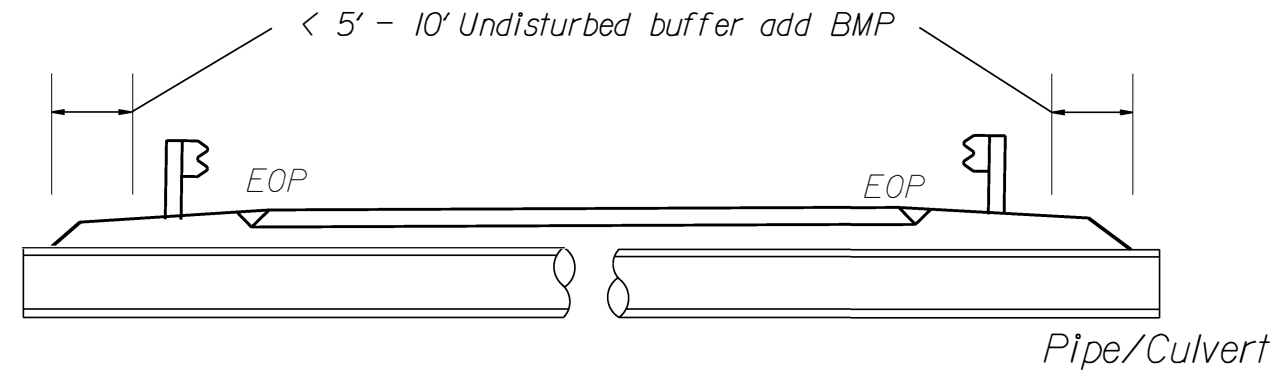
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

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

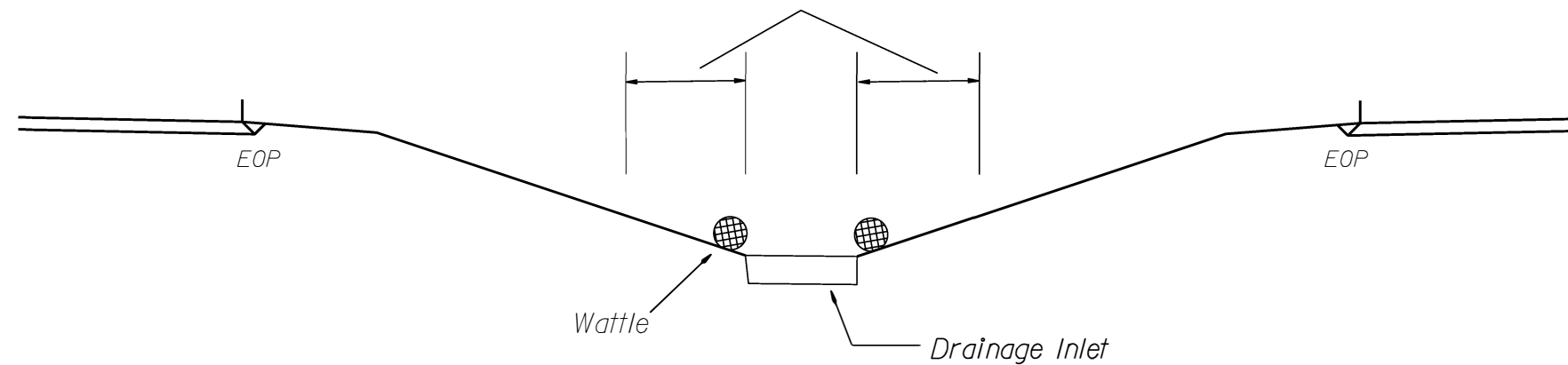
2024CPT.05.02.10351.1 etc.



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

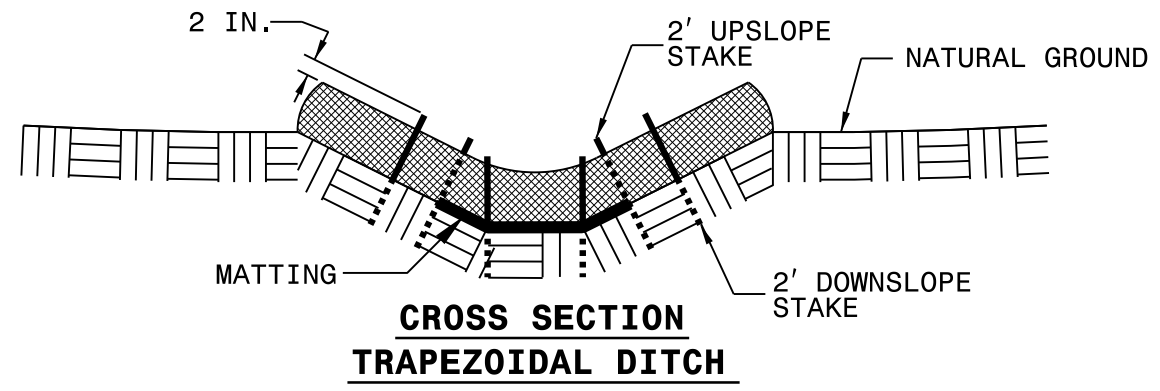
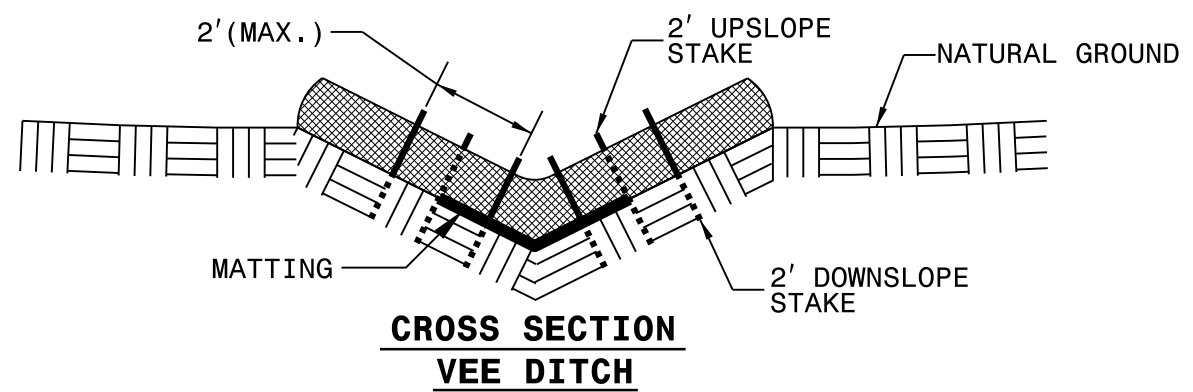
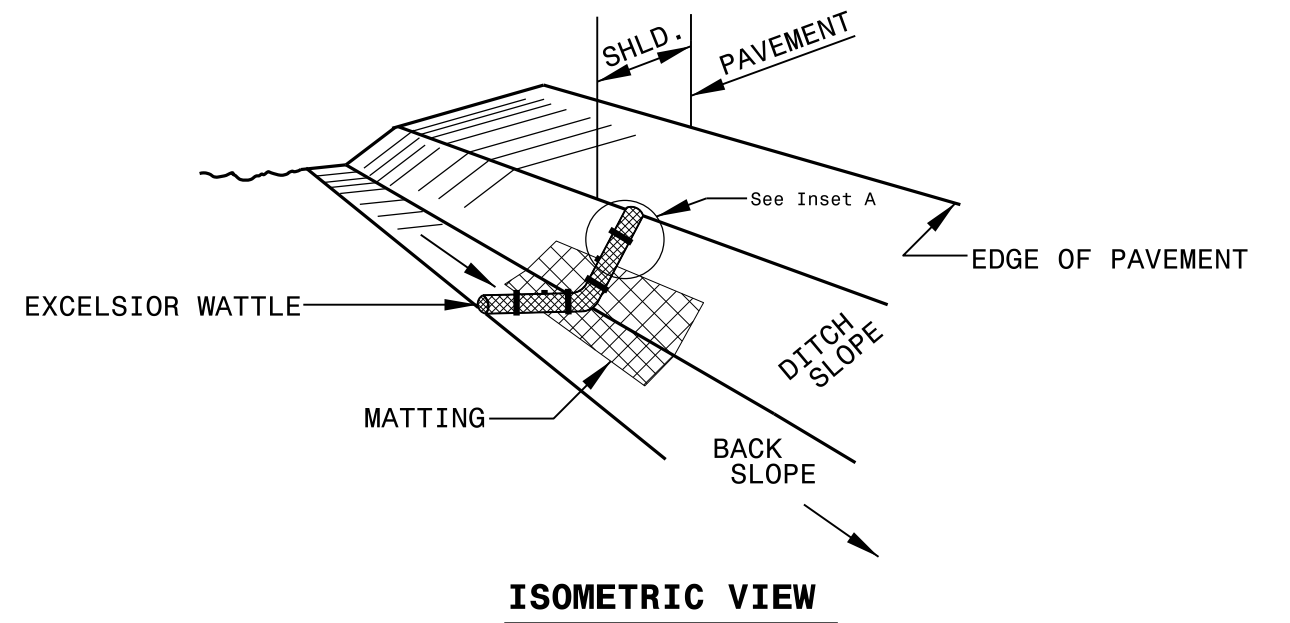


< 5' - 10' Undisturbed buffer from inlet, add wattle



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.

