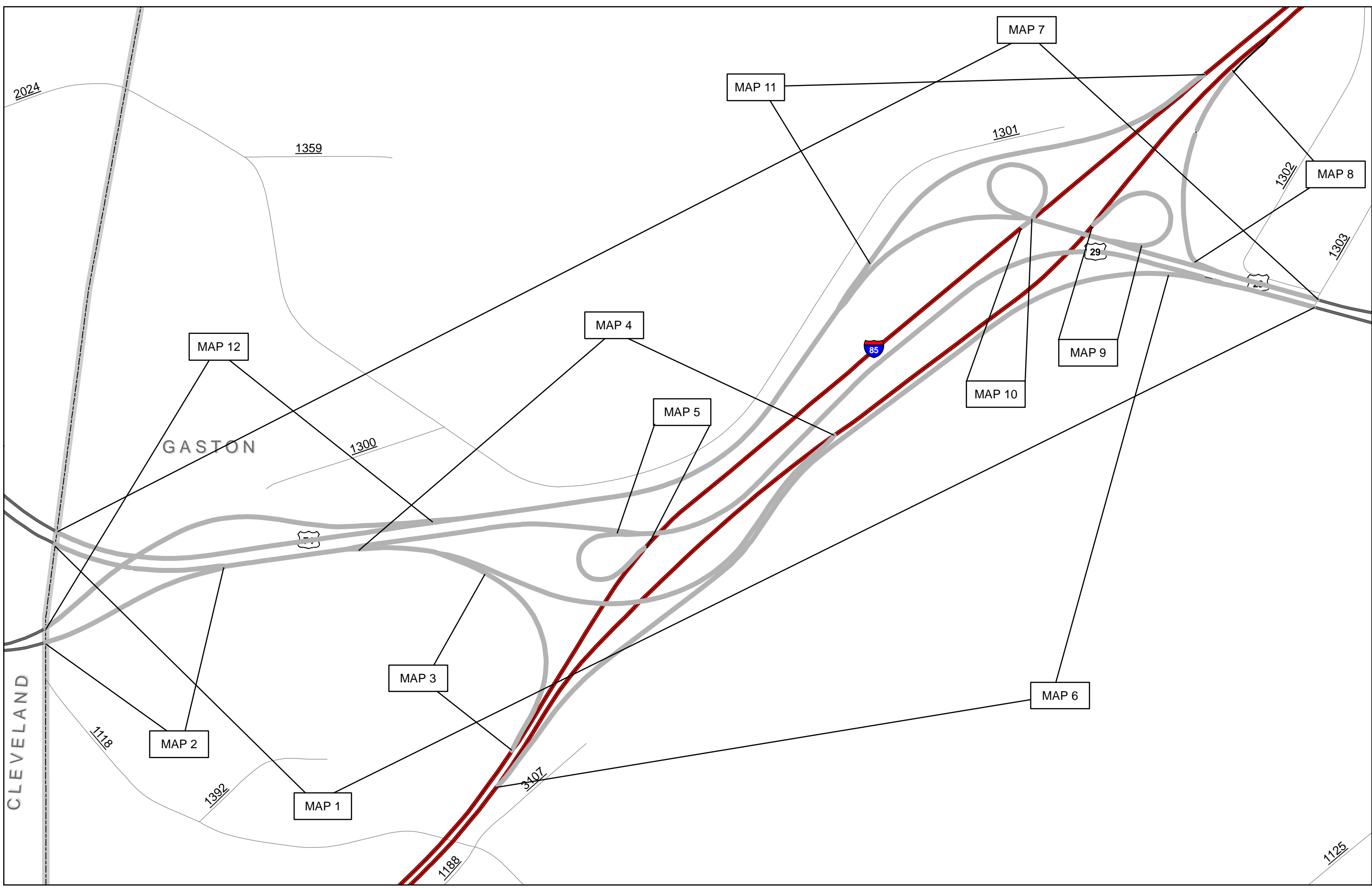


**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

**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.**



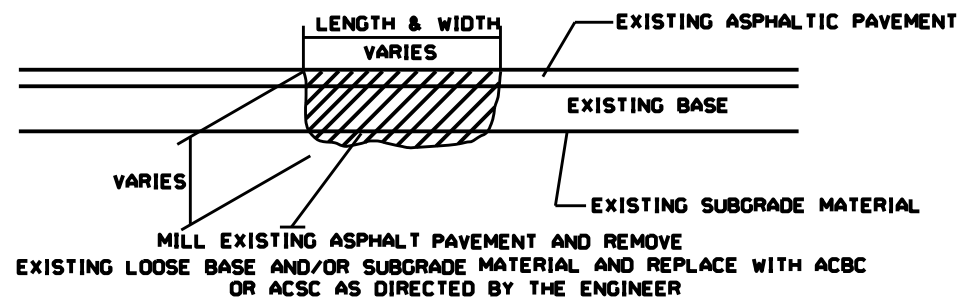
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILL ASPHALT PAVEMENT APPROX. 1-1/2" AS DIRECTED BY ENGINEER
V2	MILLED RUMBLE STRIP EDGELINE AS DIRECTED BY ENGINEER
Y	SHOULDER RECONSTRUCTION
Z	INCIDENTAL MILLING AS DIRECTED BY THE ENGINEER.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

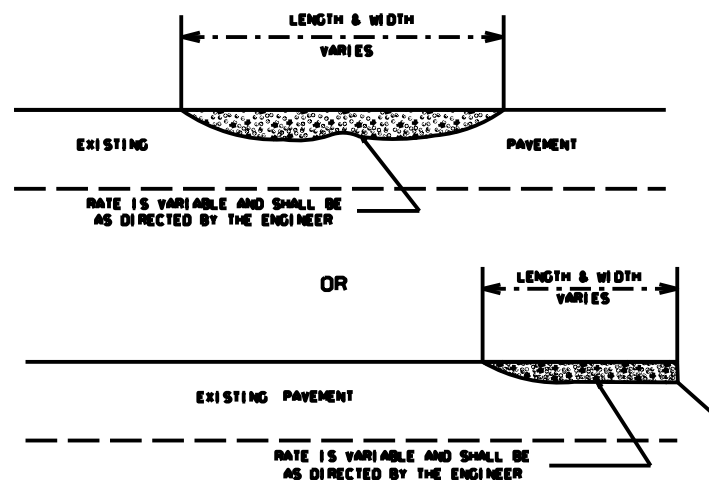
MILL BRIDGE APPROACHES & RXR APPROACHES 100' TO PROVIDE A SMOOTH TRANSITION AS DIRECTED.

MILL INTO GUTTER LINE WHERE SHOWN AND AS DIRECTED.

MAINTAIN PROPER CROWN FOR DRAINAGE OF THE ROAD SURFACE.

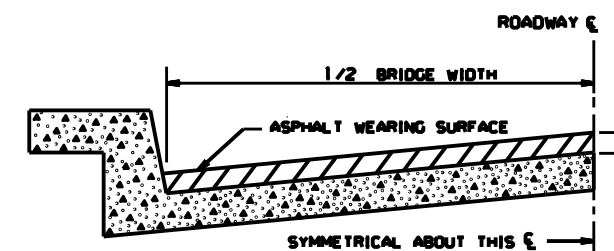


PATCHING EXISTING PAVEMENT



**ASPHALT CONCRETE SURFACE COURSE
TYPE S9.5C (LEVELING COURSE)**

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
GASTON COUNTY 2022-2023	3	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2023CPT. 12. 04. 10361		



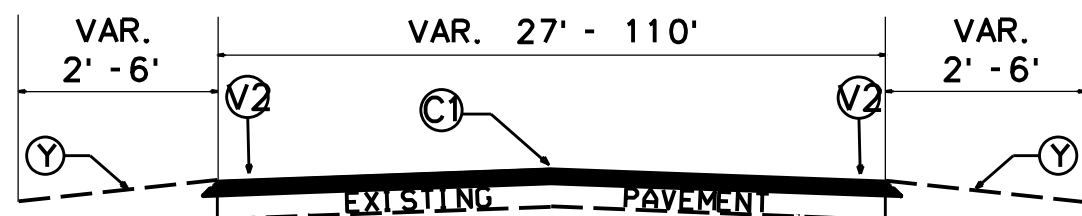
BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

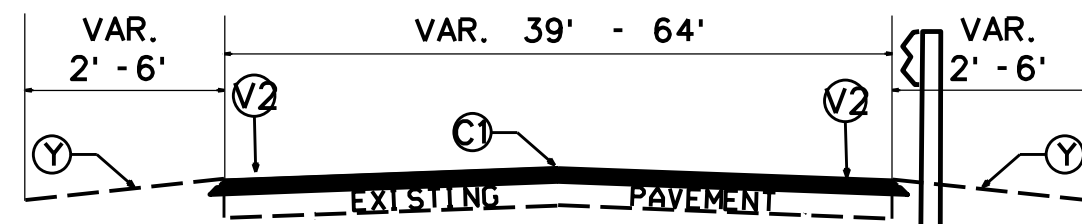
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

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

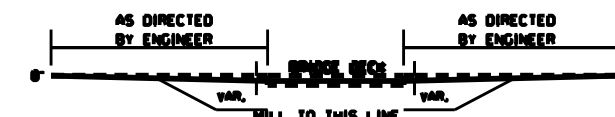


TYPICAL SECTION NO. 1
(MAP 1, 4, 7, 11)

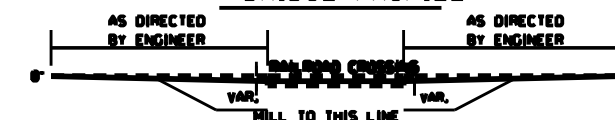


TYPICAL SECTION NO. 2
(MAP 1, 4)

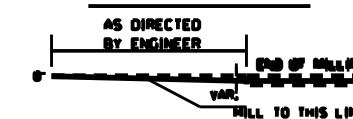
INCIDENTAL MILLING DETAILS



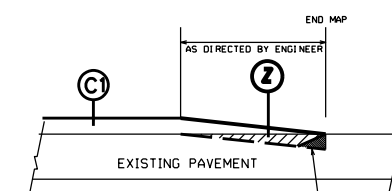
BRIDGE PROFILE



RAILROAD PROFILE



END OF MILLING PROFILE

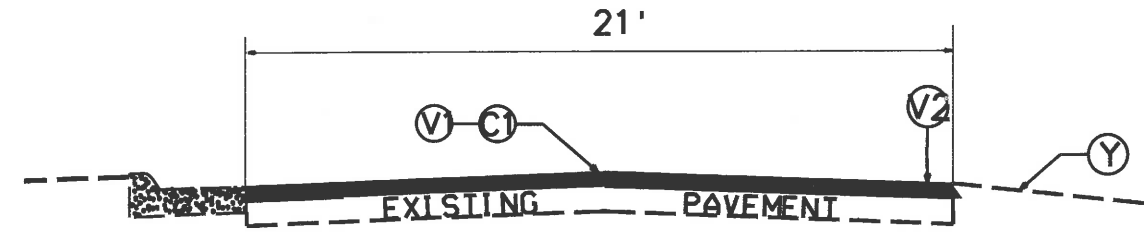


TIE-IN MILLING DETAIL

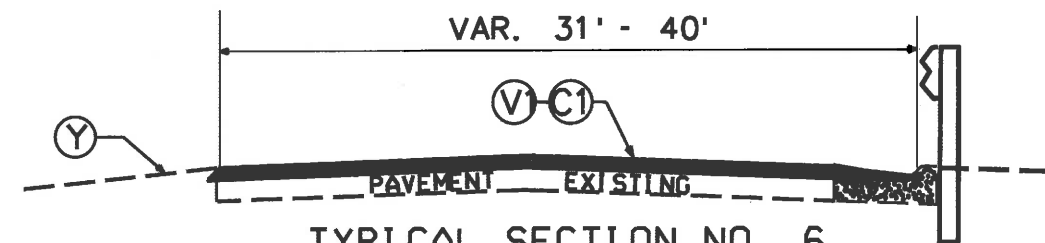
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
GASTON COUNTY 2022-2023	4	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2023CPT. 12.04.10361		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILL ASPHALT PAVEMENT APPROX. 1-1/2" AS DIRECTED BY ENGINEER
V2	MILLED RUMBLE STRIP EDGELINE AS DIRECTED BY ENGINEER
Y	SHOULDER RECONSTRUCTION
Z	INCIDENTAL MILLING AS DIRECTED BY THE ENGINEER.

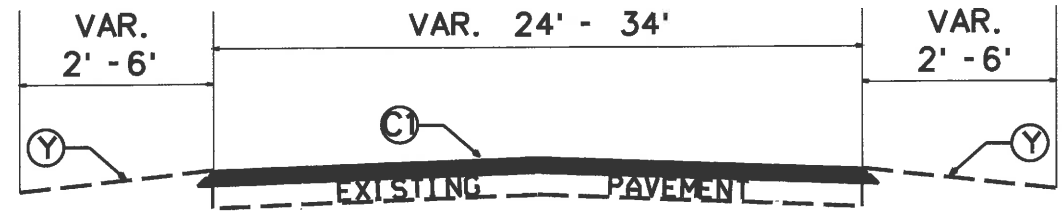
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.
MILL BRIDGE APPROACHES & RXR APPROACHES 100' TO PROVIDE A SMOOTH TRANSITION AS DIRECTED.
MILL INTO GUTTER LINE WHERE SHOWN AND AS DIRECTED.
MAINTAIN PROPER CROWN FOR DRAINAGE OF THE ROAD SURFACE.



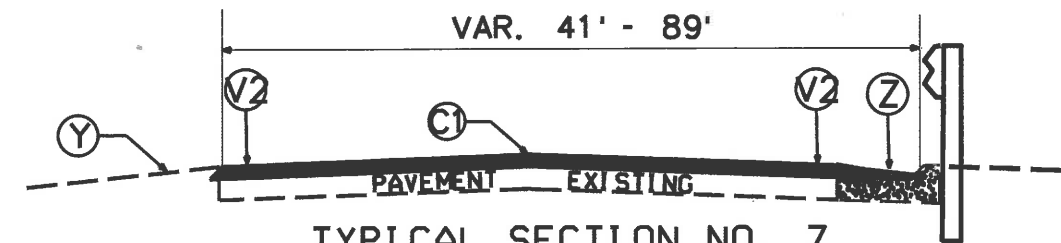
TYPICAL SECTION NO. 5
(MAP 5, 9)



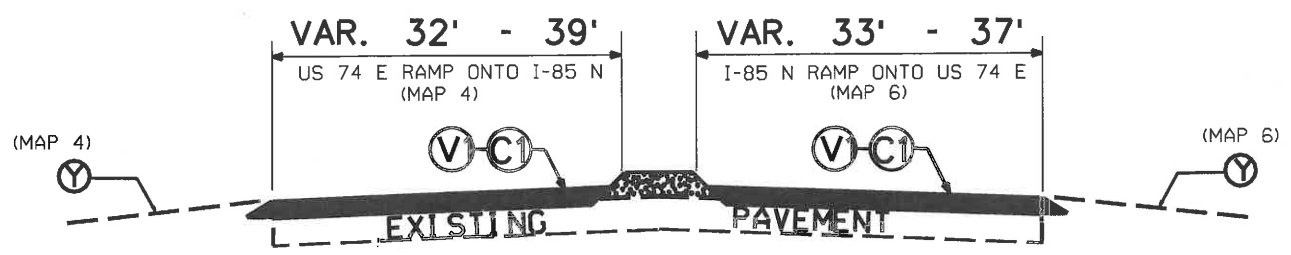
TYPICAL SECTION NO. 6
(MAP 6)



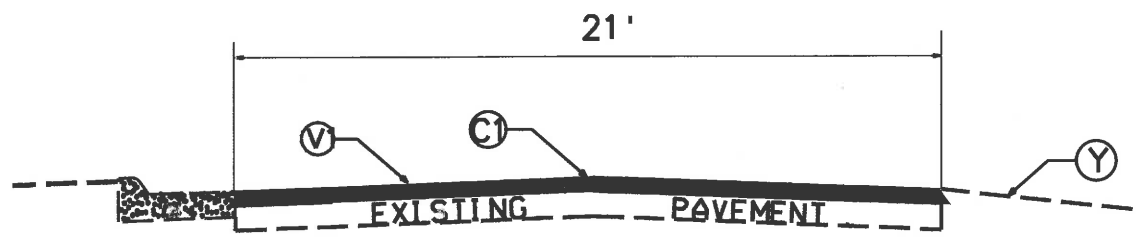
TYPICAL SECTION NO. 3
(MAP 2, 3, 6, 8, 12)



TYPICAL SECTION NO. 7
(MAP 7, 11)

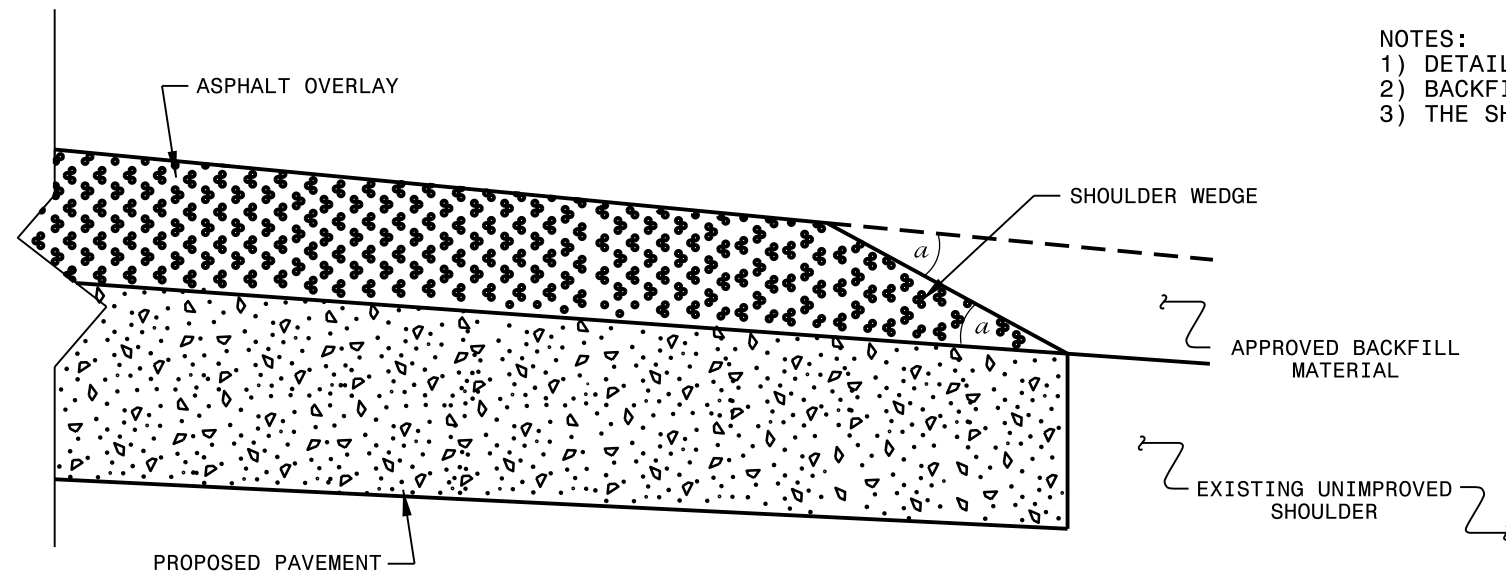


TYPICAL SECTION NO. 4
(MAP 4, 6)

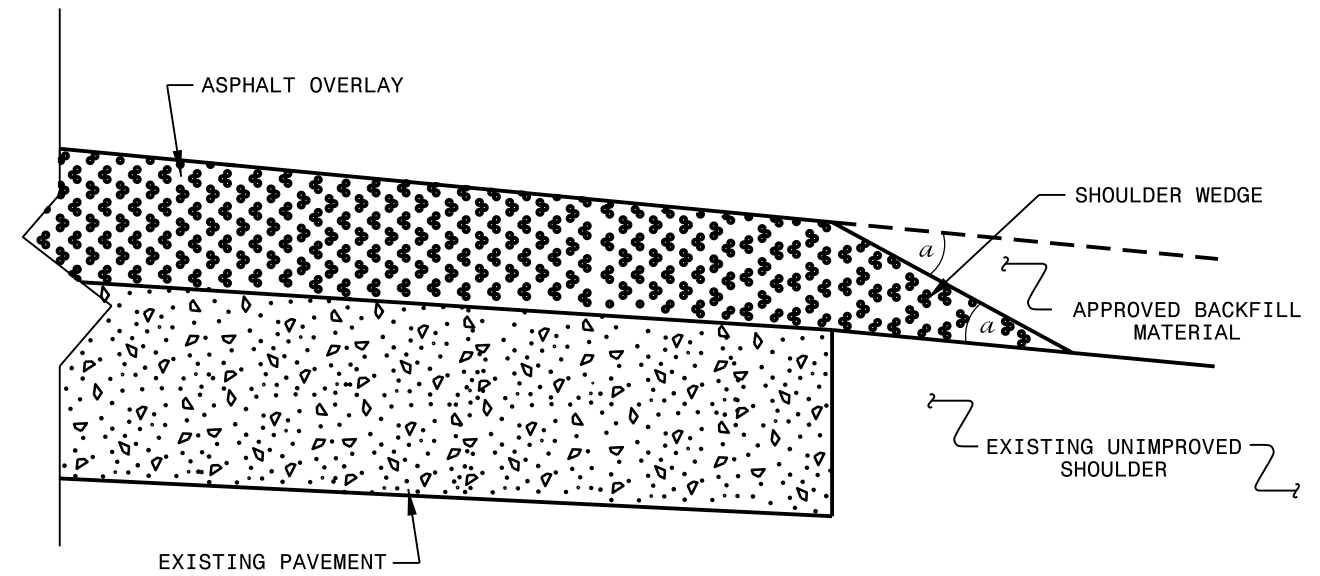


TYPICAL SECTION NO. 8
(MAP 10)

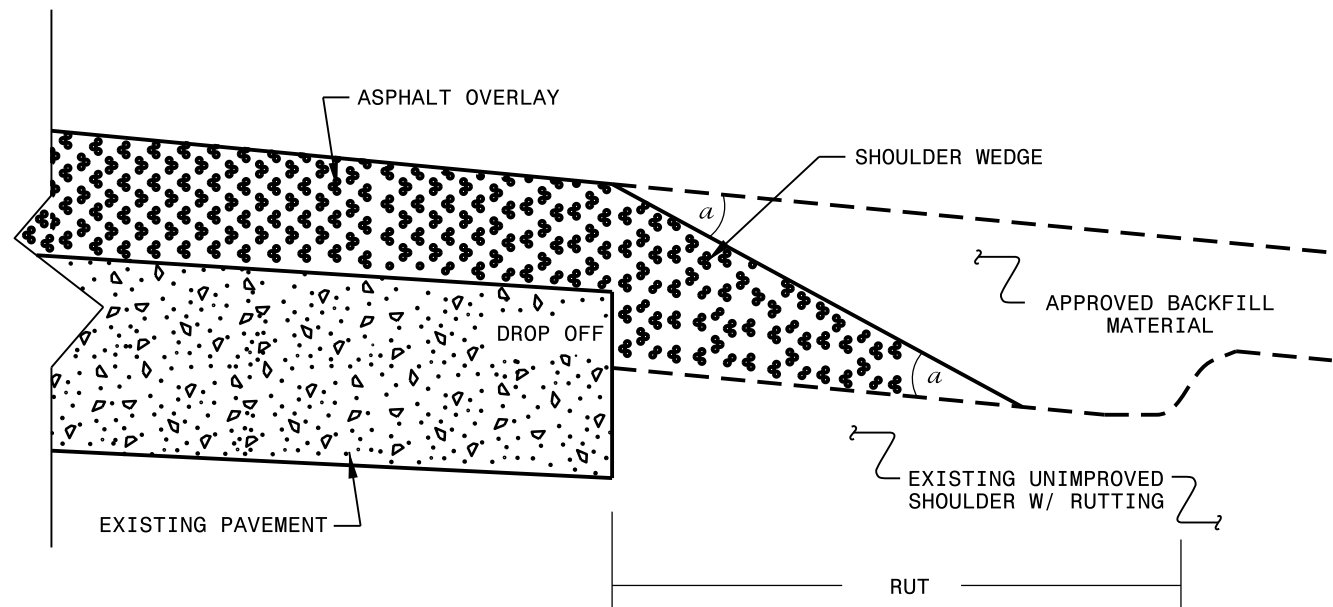
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

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.: susr/details/stand/shoulderwedgedetail.dgn

SYSTEMS DESIGN
USER NAME

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.12.13.10361		

SUMMARY OF QUANTITIES

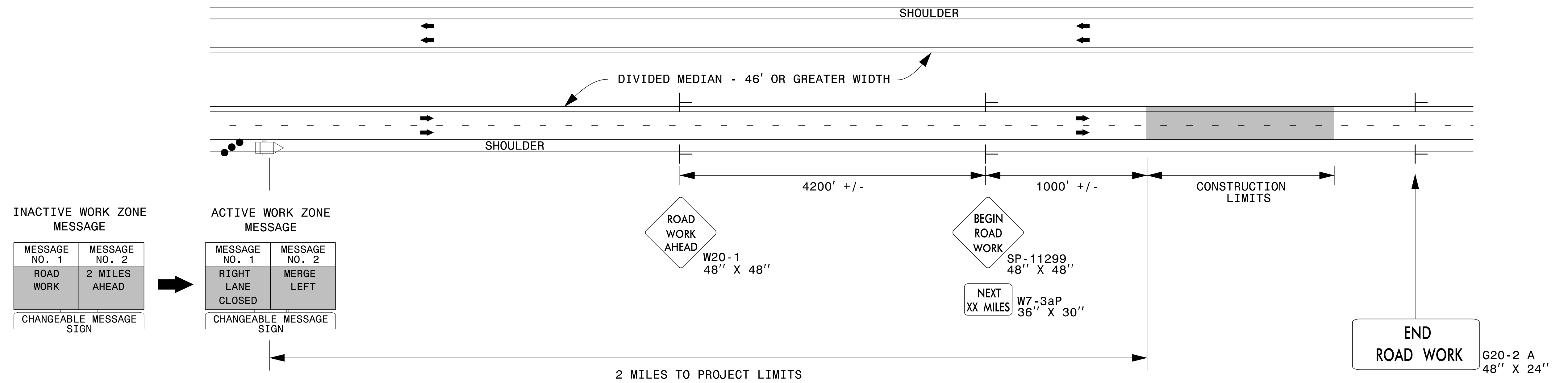
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0255000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	1840000000-E	4600000000-N		5255000000-N
											AGGREGATE SHOULDER BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1 1/2" MILLING	INCIDENTAL MILLING	SURFACE COURSE, \$9.5C	LEVELING COURSE, \$9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	MILLED RUMBLE STRIPS	SINGLE LANE CLOSURE	RAMP / LOOP CLOSURE	PORTABLE LIGHTING
											MI	FT	TON	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	LF	EA
2022CPT.12.13.10361	Gaston	1	US 74 E (ANDREW JACKSON HWY)	CLEVELAND COUNTY TO SR 1303 (SHADY GROVE RD.)	1 2	3 4	NO	NO	1.90 0.12	VAR. 33-110 64	686	35	3.92		1,034	4,548	227	288	1,260	21,330	7		
2022CPT.12.13.10361	Gaston	2	US 74 BUSINESS E RAMP ONTO US 74 E	CLEVELAND COUNTY TO END GRASS GORE	3	2	NO	NO	0.25	34	88	100	0.50		370	462	23	29	90			1	
2022CPT.12.13.10361	Gaston	3	US 74 E RAMP ONTO I-85 S	BEGIN GRASS GORE TO END GRASS GORE	3	1	NO	NO	0.19	25	67		0.38		135	257	13	16	60			1	
2022CPT.12.13.10361	Gaston	4	US 74 E RAMP ONTO I-85 N	BEGIN GRASS GORE TO END GRASS GORE	1 2 4	2 2 2	NO	NO	0.39 0.03 0.22	VAR. 33-83 39 VAR. 32-39	180	7	1.03	4,933	890	1,516	80	96	300	6,758		1	
2022CPT.12.13.10361	Gaston	5	I-85 S RAMP ONTO US 74 E	BEGIN C&G TO END C&G	5	1	NO	NO	0.15	21	27		0.15		2,035	172	10	11	45	792		1	
2022CPT.12.13.10361	Gaston	6	I-85 N RAMP ONTO US 74 E	BEGIN GRASS GORE TO END GRASS GORE	3 4 6	2 2 2	NO	NO	0.23 0.62 0.29	VAR. 26-32 VAR. 33-37 VAR. 31-40	240	7	1.37		280	2,160	108	137	402			1	
2022CPT.12.13.10361	Gaston	7	US 74 W (ANDREW JACKSON HWY)	SR 1303 (SHADY GROVE RD.) TO CLEVELAND COUNTY LINE	1 7	4 4	NO	NO	1.90 0.12	VAR. 33-91 VAR. 66-89	686	90	3.92		2,035	4,989	243	315	1,400	21,331	7		
2022CPT.12.13.10361	Gaston	8	US 74 W RAMP ONTO I-85 N	BEGIN GRASS GORE TO END GRASS GORE	3	2	NO	NO	0.28	VAR. 24-41	98	75	0.56		140	389	19	25	120			1	
2022CPT.12.13.10361	Gaston	9	I-85 N RAMP ONTO US 74 W	BEGIN GRASS GORE TO END C&G	5	2	NO	NO	0.17	21	30		0.17		2,307	195	12	12	86	898		1	
2022CPT.12.13.10361	Gaston	10	US 74 W RAMP ONTO I-85 S	BEGIN GRASS GORE TO END C&G	8	2	NO	NO	0.21	21	37		0.21		3,383	240	14	15	65			1	
2022CPT.12.13.10361	Gaston	11	I-85 S RAMP ONTO US 74 W	BEGIN GRASS GORE TO END GRASS GORE	1 7	2 2	NO	NO	0.36 0.11	VAR. 27-40 41	145		0.83		1,033	935	94	62	281	4,963		1	
2022CPT.12.13.10361	Gaston	12	US 74 W RAMP ONTO US 74 BUSINESS W	BEGIN GRASS GORE TO CLEVELAND COUNTY LINE	3	2	NO	NO	0.51	VAR. 28-50	179		1.02		1,128	917	46	58	204			1	
TOTAL FOR PROJ NO. 2022CPT.12.13.10361									8.05		2,463	314	14.06	33,408	7,045	16,780	889	1,064	4,313	56,072	14	10	1
GRAND TOTAL									8.05		2,463	314	14.06	33,408	7,045	16,780	889	1,064	4,313	56,072	14	10	1

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.12.13.10361		

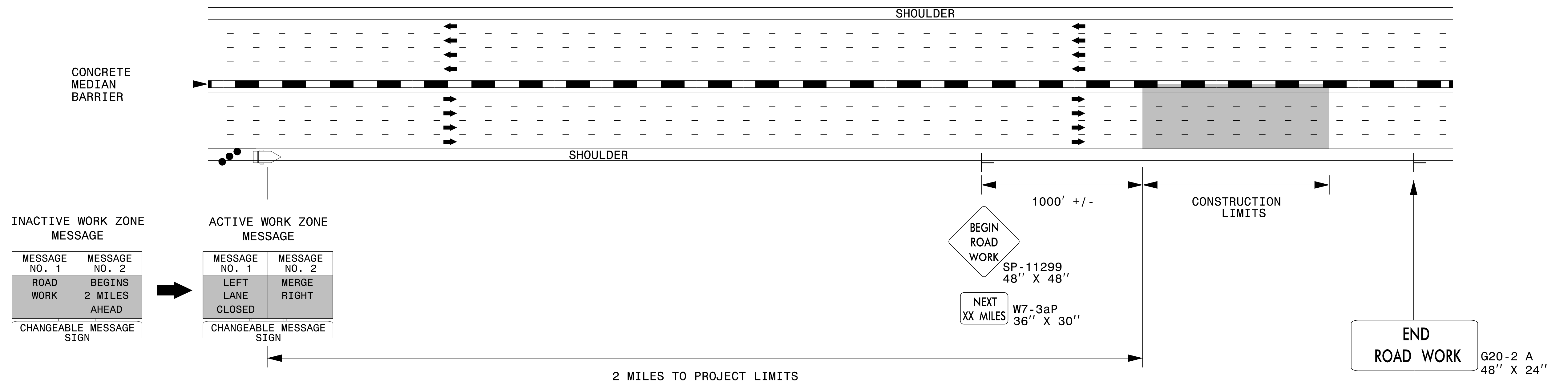
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		4413000000-E		4423000000-N		4424000000-N		4434000000-N		4510000000-N		4700000000-E		4725000000-E		487030000-E		4815000000-E		4905000000-N	
							MI	FT	SF	EA	EA	EA	HR	LF	EA	EA	LF	LF	LF	LF	EA							
2022CPT.12.13.10361	Gaston	1	US 74 E (ANDREW JACKSON HWY)	CLEVELAND COUNTY TO SR 1303 (SHADY GROVE RD.)	1	3	1.90	VAR. 33-110	196	2	4	30	120	1,841	1	9	15,000	10,500	15,000	10,500	215							
2022CPT.12.13.10361	Gaston	2	US 74 BUSINESS E RAMP ONTO US 74 E	CLEVELAND COUNTY TO END GRASS GORE	3	2	0.25	34	84				10				1,350	1,350	1,350	1,350	18							
2022CPT.12.13.10361	Gaston	3	US 74 E RAMP ONTO I-85 S	BEGIN GRASS GORE TO END GRASS GORE	3	1	0.19	25	84				15				1,025	1,025	1,025	1,025								
2022CPT.12.13.10361	Gaston	4	US 74 E RAMP ONTO I-85 N	BEGIN GRASS GORE TO END GRASS GORE	1	2	0.39	VAR. 33-83																				
2022CPT.12.13.10361	Gaston	4	US 74 E RAMP ONTO I-85 N	BEGIN GRASS GORE TO END GRASS GORE	2	2	0.03	39	180				30	655				4,300	3,400	4,300	3,400	45						
2022CPT.12.13.10361	Gaston	5	I-85 S RAMP ONTO US 74 E	BEGIN C&G TO END C&G	5	1	0.15	21	84				10	60				800	800	800	800							
2022CPT.12.13.10361	Gaston	6	I-85 N RAMP ONTO US 74 E	BEGIN GRASS GORE TO END GRASS GORE	3	2	0.23	VAR. 26-32																				
2022CPT.12.13.10361	Gaston	6	I-85 N RAMP ONTO US 74 E	BEGIN GRASS GORE TO END GRASS GORE	4	2	0.62	VAR. 33-37																				
2022CPT.12.13.10361	Gaston	6	I-85 N RAMP ONTO US 74 E	BEGIN GRASS GORE TO END GRASS GORE	6	2	0.29	VAR. 31-40	164				18				3	7,250	6,050	7,250	6,050	58						
2022CPT.12.13.10361	Gaston	7	US 74 W (ANDREW JACKSON HWY)	SR 1303 (SHADY GROVE RD.) TO CLEVELAND COUNTY LINE	1	4	1.90	VAR. 33-91	196	2	4	30	15	2,404		6	15,750	10,600	15,750	10,600	240							
2022CPT.12.13.10361	Gaston	7	US 74 W (ANDREW JACKSON HWY)	SR 1303 (SHADY GROVE RD.) TO CLEVELAND COUNTY LINE	7	4	0.12	VAR. 66-89																				
2022CPT.12.13.10361	Gaston	8	US 74 W RAMP ONTO I-85 N	BEGIN GRASS GORE TO END GRASS GORE	3	2	0.28	VAR. 24-41	132				10				1,500	1,500	1,500	1,500								
2022CPT.12.13.10361	Gaston	9	I-85 N RAMP ONTO US 74 W	BEGIN GRASS GORE TO END C&G	5	2	0.17	21	132				12															
2022CPT.12.13.10361	Gaston	10	US 74 W RAMP ONTO I-85 S	BEGIN GRASS GORE TO END C&G	8	2	0.21	21	84				10															
2022CPT.12.13.10361	Gaston	11	I-85 S RAMP ONTO US 74 W	BEGIN GRASS GORE TO END GRASS GORE	1	2	0.36	VAR. 27-40																				
2022CPT.12.13.10361	Gaston	11	I-85 S RAMP ONTO US 74 W	BEGIN GRASS GORE TO END GRASS GORE	7	2	0.11	41	132				50					2,250	2,250	2,250	2,250	32						
2022CPT.12.13.10361	Gaston	12	US 74 W RAMP ONTO US 74 BUSINESS W	BEGIN GRASS GORE TO CLEVELAND COUNTY LINE	3	2	0.51	VAR. 28-50	132				5	22	3		3,500	2,700	3,500	2,700	36							
TOTAL FOR PROJ NO. 2022CPT.12.13.10361							8.05		1,600	4	8	60	305	4,982	4	18	52,725	42,175	52,725	42,175	644							
GRAND TOTAL							8.05		1,600	4	8	60	305	4,982	4	18	52,725	42,175	52,725	42,175	644							

DIVIDED MEDIANS WITH WIDTHS 46' OR GREATER



DIVIDED MEDIANS WITH WIDTHS LESS THAN 46' OR WITH PERMANENT MEDIAN BARRIER



NOTES:

- 1) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 6' AS MEASURED FROM THE EDGE OF PAVEMENT.
- 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) FOR MEDIAN WIDTHS LESS THAN 46' (MEASURED EDGELINE TO EDGELINE) USE THE BOTTOM DRAWING.
- 4) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 5) INSTALL "ROAD WORK AHEAD" (W20-1) ALONG ENTRANCE RAMP 500' PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMP WITHIN THE WORK ZONE.
- 6) 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 AND WITH DIVIDED MEDIANS OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

- CHANGEABLE MESSAGE SIGN (CMS)
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW
- TRAFFIC DRUM



**RESURFACING ADVANCE
WARNING SIGNS FOR
HIGH SPEED FACILITIES
≥ 60 MPH**