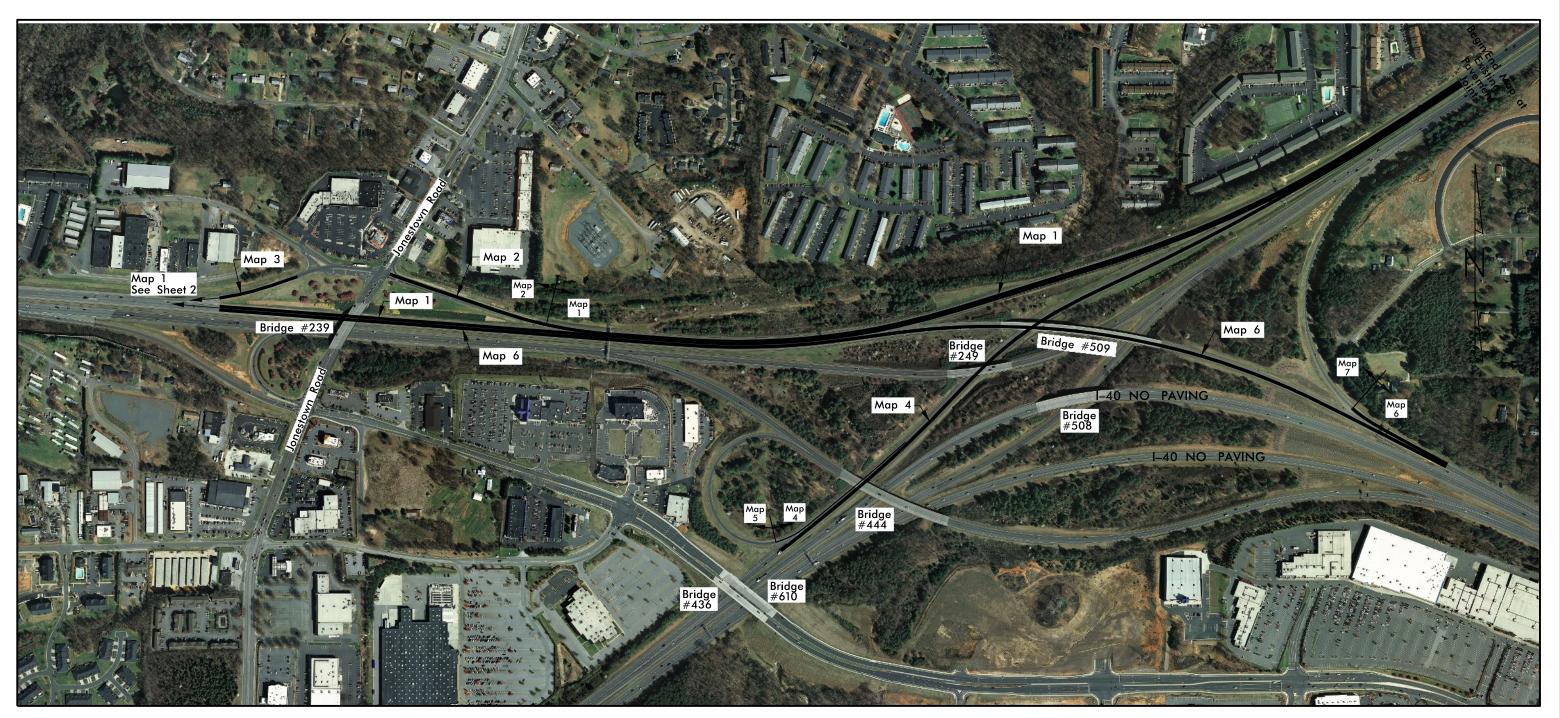
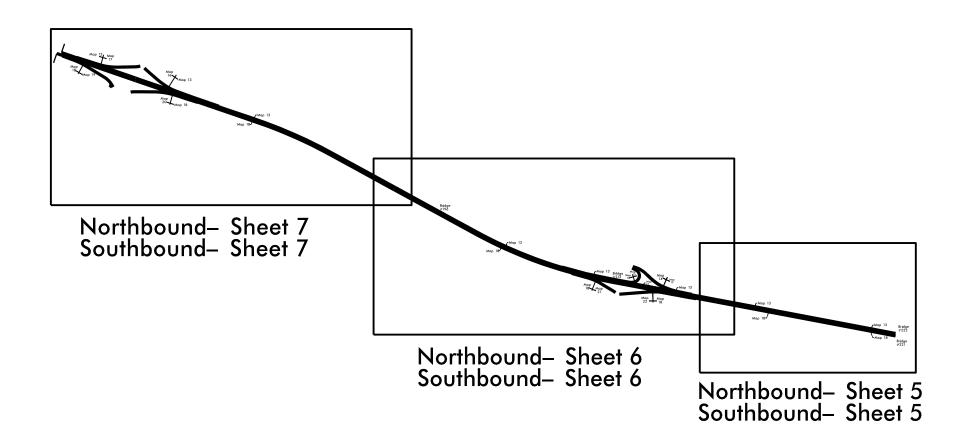
PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	1

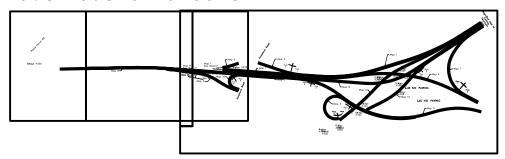


MAPS 1,2,3,4,6 US421/140/BUS 140 WEST BOUND NORTH BOUND RAMPS ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 7 P.M. TO 6 A.M., Monday–Sunday.

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	1A



Northbound Sheet 2 Southbound Sheet 3



Northbound Sheet 1 Westbound Southbound Sheet 4 Eastbound

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	2





MAP 1

US 421 NORTH BOUND

ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 7 P.M. TO 6 A.M., Monday–Sunday.

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	3

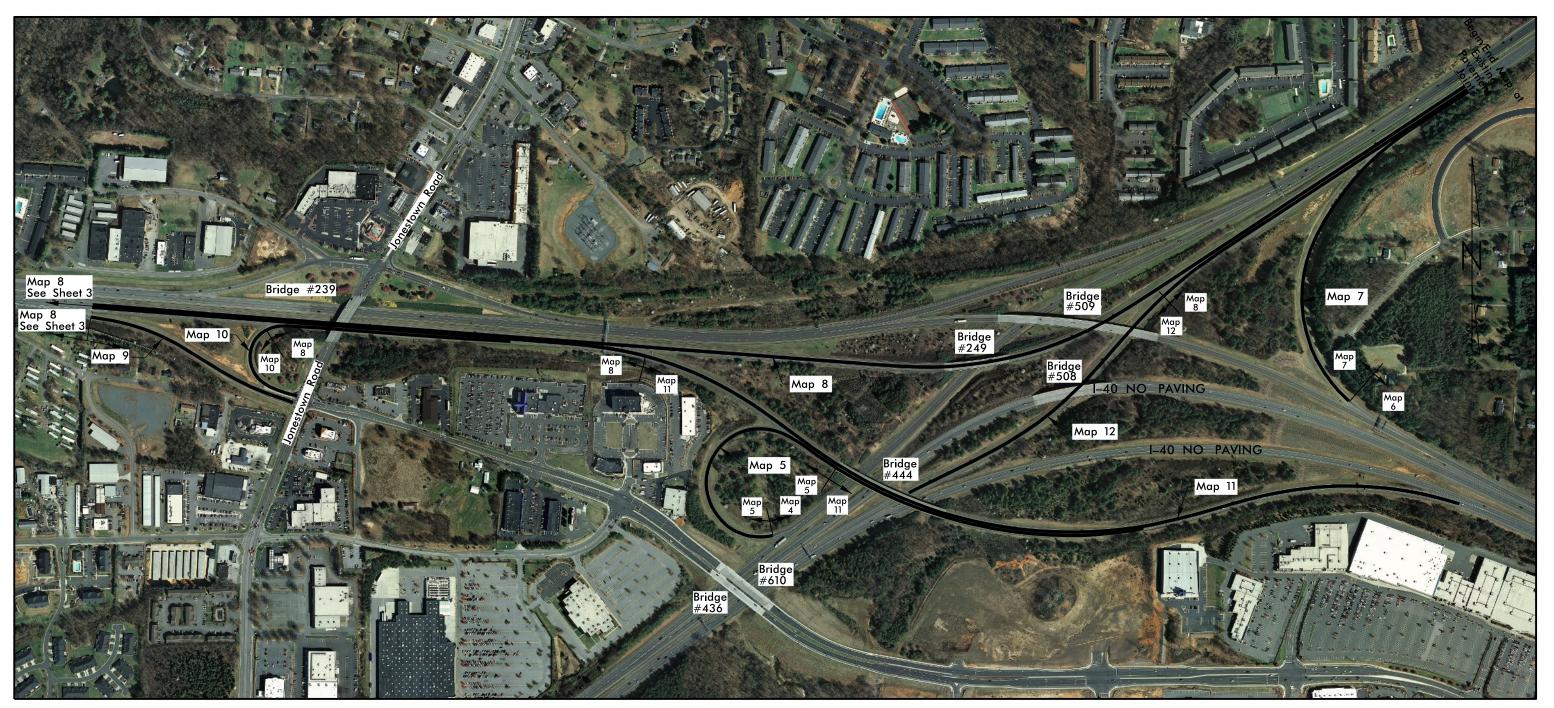




MAP 8 US 421 SOUTH BOUND

ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 7 P.M. TO 6 A.M., Monday–Sunday.

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	4



MAP 5,7,8,9,10,11,12 US421/140/BUS 140 EAST BOUND SOUTH BOUND RAMPS

ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 7 P.M. TO 6 A.M., Monday–Sunday.

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	5



MAPS 13
US421
WEST BOUND/NORTH BOUND RAMPS
MAPS 18
US421
EAST BOUND/SOUTH BOUND RAMPS

ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 7 P.M. TO 6 A.M., Monday–Sunday.



PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	6



MAPS 13,14,15 US421 WEST BOUND/NORTH BOUND RAMPS MAPS 18,21,22 US421 EAST BOUND/SOUTH BOUND RAMPS

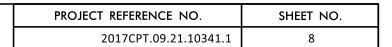
ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 7 P.M. TO 6 A.M., Monday–Sunday.

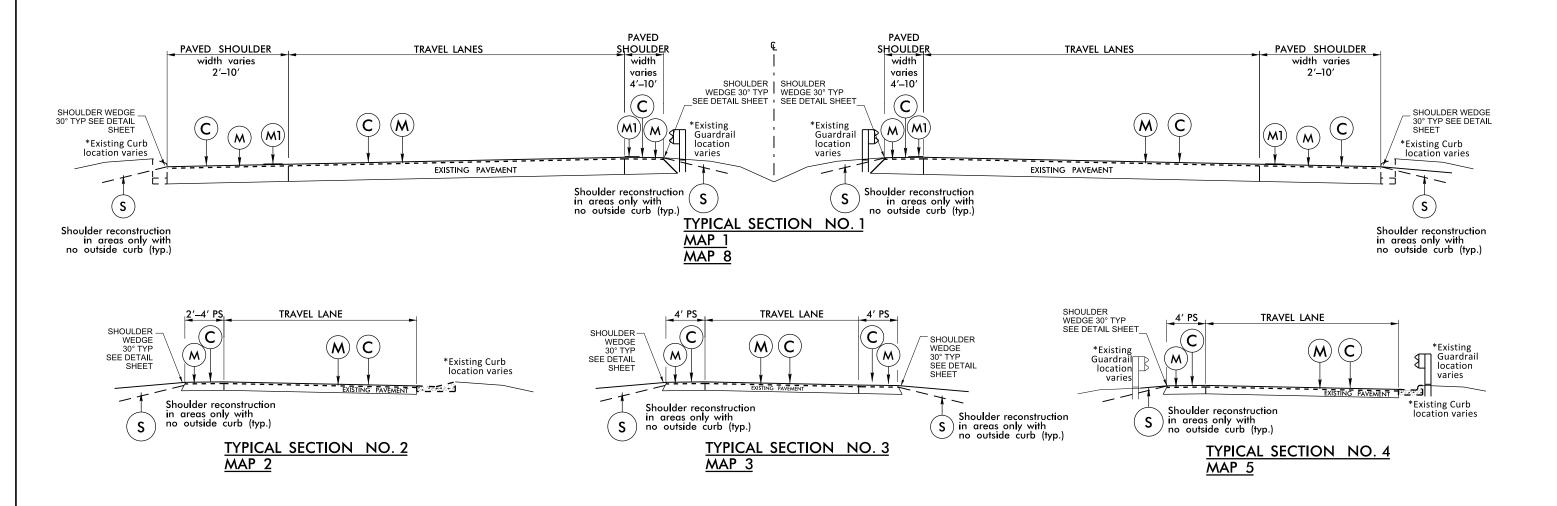


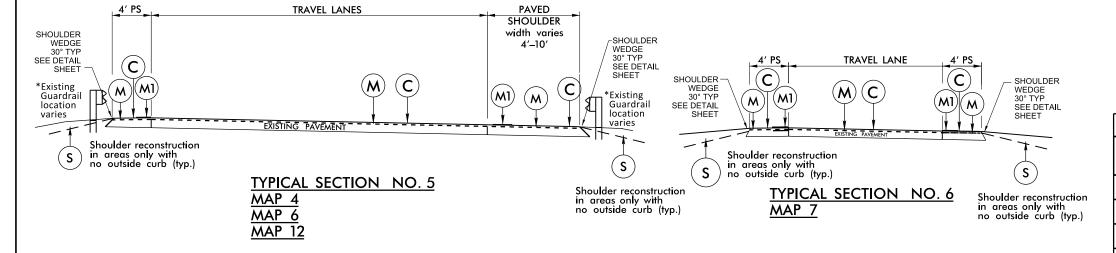
PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	7



MAPS 13,16,17 US421 WEST BOUND/NORTH BOUND RAMPS MAPS 18,19,20 US421 EAST BOUND/SOUTH BOUND RAMPS ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 7 P.M. TO 6 A.M., Monday–Sunday.

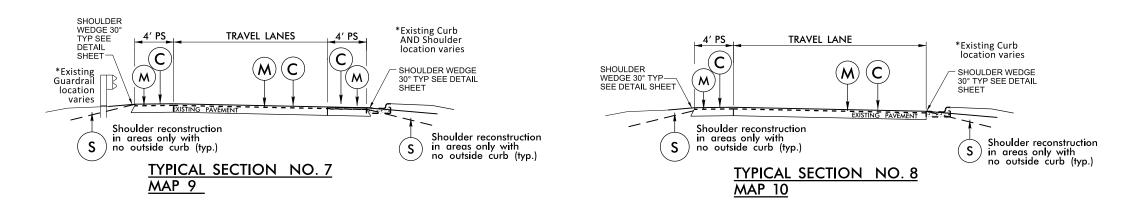






	PAVEMENT SCHEDULE
С	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ. YD.
М	MILLING ASPHALT PAVEMENT, 2" DEPTH
M1	MILLED RUMBLE STRIP
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	9



_4′ PS	TRAVEL LANES	PAVED	
SHOULDER		SHOULDER width varies	
WEDGE 30° TYP SEE DETAIL		2′–10′	*Existing Guardrail location
*Existing MMI	(M) (C)		varies — SHOULDER WEDGE
Guardrail location varies		$ \stackrel{M1}{\downarrow} \stackrel{M}{\downarrow} $	30° TYP SEE DETAIL SHEET
-\tau	EXISTING PAVEMENT		\(\frac{1}{7} \)
Shoulder reconstruction in areas only with no outside curb (typ.)			Shoulder reconstruction in areas only with no outside curb (typ.)
(////	TYPICAL SECTION NO. 9 MAP 11		o outside curb (typ.)

	PAVEMENT SCHEDULE
C	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ. YD.
М	MILLING ASPHALT PAVEMENT, 2" DEPTH
M1	MILLED RUMBLE STRIP
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	10

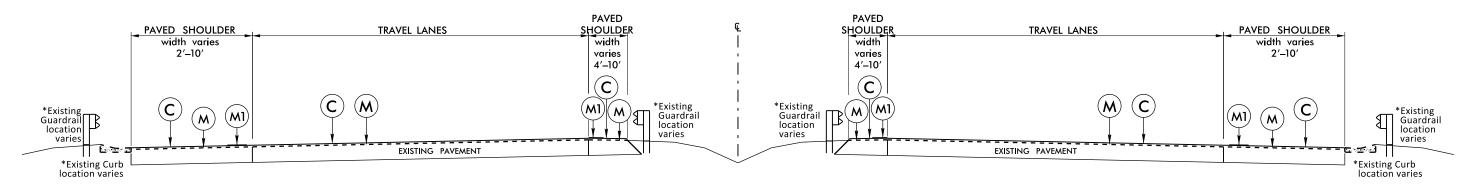
*Existing Curb AND Shoulder location varies

SHOULDER WEDGE 30° TYP SEE DETAIL SHEET

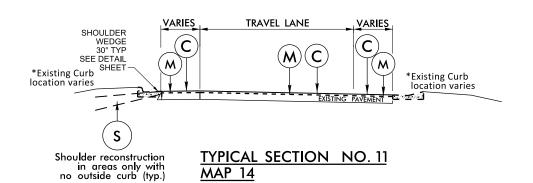
(s)

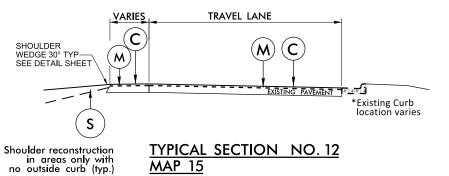
VARIES

(M)

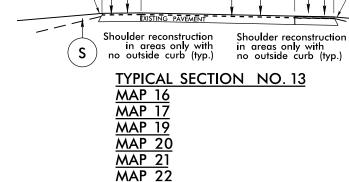


TYPICAL SECTION NO. 10 MAP 13 **MAP 18**





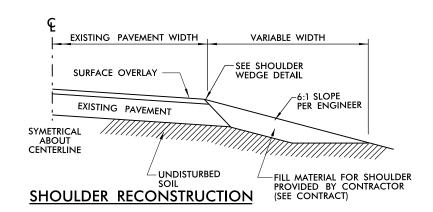
MAP 15



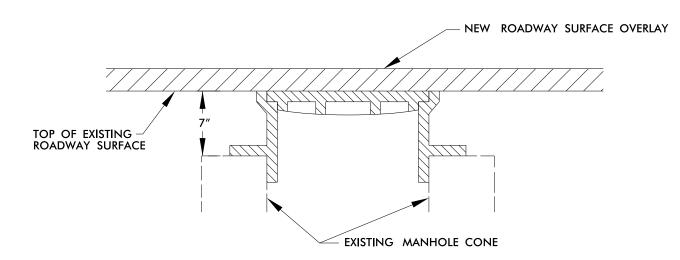
TRAVEL LANE(S)

(M)(C)

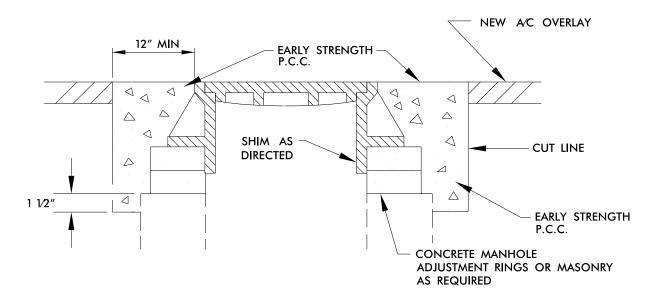
SHOULDER WEDGE 30° TYP SEE DETAIL



	PAVEMENT SCHEDULE
С	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE \$9.5C, APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ. YD.
М	MILLING ASPHALT PAVEMENT, 2" DEPTH
M1	MILLED RUMBLE STRIP
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT



STEP 1



STEPS 2,3, & 4

- STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE
- STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.
- STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAVEMENT PROFILE AND CROSS SLOPE.
- STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

MANHOLE ADJUSTMENT DETAIL

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.09.21.10341.1	11

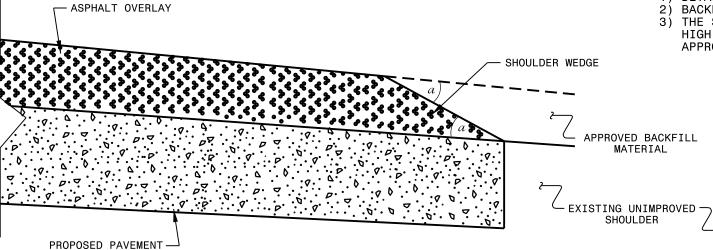
CONSTRUCTION NOTES:

- 1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".
- CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:
 - PHASE 1 MILLING AND PATCHING (WHEN REQUIRED)
 - PHASE 2 SURFACE OVERLAY
 - PHASE 3 SHOULDER DROP-OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
 - PHASE 4 UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.) WHEN REQUIRED.
- 3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.
- 4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).
- 5. FOR TWO-LANE ROADWAYS IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE. THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 6. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610–11.
- 7. ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.
- 9. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS AT ANY INTERSECTION INCLUDING Y-LINES NOT ACTUALLY BEING PAVED OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING OPERATION

017CPT.09.21.10341.1

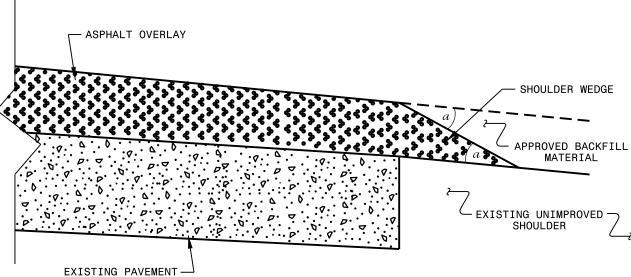
1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.

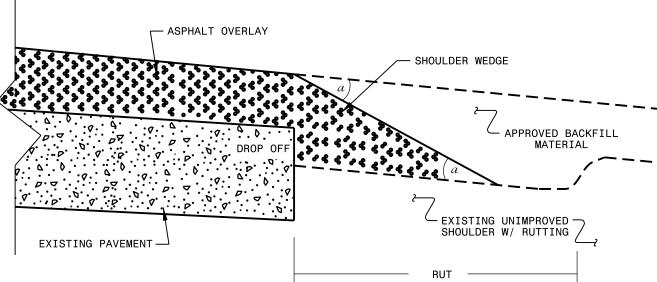
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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 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/shoulderwed	gedetail.dgn

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.09.21.10341.1	13	

SUMMARY OF QUANTITIES

										IIIIE					,	1				T	
PROJECT COUNTY	MAP	ROUTE	DESCRIPTION	TYP LAN		SURFACE TESTING	REQUIRED				STONE BASE		ASPHALT PAVEMENT,	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX		RUMBLE STRIPS	ADJ. OF MANHOLES	PORTABLE LIGHTING	TEMP SILT FENCE	WATTLE
NO	NO			NO		REQUIRED		МІ	FT	CY	TONS	SMI	2"DEPTH SY	TONS	TONS	TONS	Std. 665.01 LF	EA	LS	LF	LF
			FROM PVMT JT. EASTOF EXIT 1 I-40 WEST BOUND RAMP TO GRASS													10110					1
	1	NORTH BOUND US421	GORE AT ON RAMP FROM JONESTOWN RD. (INCLUDES RT. EXIT LANE TO JONESTOWN RD. EXIT RAMP)	1 2	MD	NO	NO	1.297	varies 12-26	84		0.70	17,107	2,609	154	100	7,085	1	1	281	28
	-	NONTI BOOND 03421	FROM GRASS GORE AT ON RAMP FROM JONESTOWN RD. TO GRASS		IVID	110	110	1.257	varies	04		0.70	17,107	2,003	154	100	7,003	-		201	1 20
	1	NORTH BOUND US421 TOTAL FOR MAP NO. 1	GORE AT EXIT 240 PEACE HAVEN RD.	1 2	MD	NO	NO	0.813 2.11	36-50	49 133		0.41 1.11	27,226 44,333	3,361 5,970	198 352	100	8,585 15,670	1	1	162 443	16 44
		TOTAL FOR WAF NO. 1						2.11	varies	133		1.11	44,333	3,570	332	100	13,670		1	443	
	2	NORTH BOUND US421_JONESTOWN RD. EXIT RAMP	FROM GRASS GORE TO E.O.P. JONESTOWN RD.	2 3	MU	NO	NO	0.14	23-38	18		0.15	2,779	344	20					62	6
		TOTAL FOR MAP NO. 2						0.14	varies	18		0.15	2,779	344	20					62	6
	3	NORTH BOUND US421_JONESTOWN RD. ON RAMP	FROM E.O.P. JONESTOWN RD. TO GRASS GORE	3 1	MU	NO	NO	0.081	24-26	20	54	0.17	1,141	141	8					67	7
		TOTAL FOR MAP NO. 3	FROM PVMT. JT. EAST OF EXIT 1 I-40 WB/ NB US421RAMP TO GRASS					0.081		20	54	0.17	1,141	141	8					67	7
			GORE AT EB I-40 RAMP (INCL. LEFT LANE FROM PVMT. JT TO GRASS						varies												
	4	NORTH BOUND US421_I-40 WESTBOUND RAMP TOTAL FOR MAP NO. 4	GORE AT RAMP TO WB I-40)	5 2	MD	NO	NO	0.56 0.56	24-38	100 100		0.83 0.83	13,067 13,067	1,864 1,864	110 110		5,914 5,914			332 332	33 33
		TOTAL FOR MAIL NO. 4	FROM PAVEMENT JT. AT GRASS GORE AT EXIT TO EAST BOUND I-40					0.50		100		0.03	13,007	1,004	110		3,314			332	1 33
	5	NORTH BOUND US421_I-40 EASTBOUND RAMP	RAMP TO BRIDGE # 444	4 2	MD	NO	NO	0.274 0.274	20	32 32		0.27 0.27	3,858	399	24					108	11
		TOTAL FOR MAP NO. 5	FROM EXISTING PVMT JT AT GRASS GORE AT EXIT 188 TO GORE AT					0.274	varies	32		0.27	3,858	399	24					108	11
	6	WEST BOUND I-40 NORTH BOUND US421 RAMP	ON RAMP FROM JONESTOWN RD	5 2	MU	NO	NO	1.086	34-36	54		0.45	23,826	2,948	174		4,512			180	18
		TOTAL FOR MAP NO. 6		 				1.086	varies	54		0.45	23,826	2,948	174		4,512			180	18
	7	WEST BOUND I-40 SOUTH BOUND US421 RAMP	FROM GRASS GORE TO PVMT. JT EAST OF GRASS GORE AT SB US 421	6 2	MU	NO	NO	0.269	24-26	65		0.54	3,788	663	39		2,841			216	22
	-	TOTAL FOR MAP NO. 7	FROM GRASS GORE AT ON RAMP FROM PEACE HAVEN RD. TO GRASS	\vdash				0.269	varies	65		0.54	3,788	663	39		2,841			216	22
	8	SOUTH BOUND US421	GORE AT EXIT 239 RAMP TO JONESTOWN RD.	1 2	MU	NO	NO	0.668	56-60	46		0.38	20,917	2,810	166		7,054			152	15
	8	SOUTH BOUND US421	FROM GRASS GORE AT EXIT 239 TO PVMT. JT EAST OF GRASS GORE AT ON RAMP FROM WEST BOUND I-40 SOUTH BOUND US421 ON RAMP	1 2	ми	NO	NO	1.365	varies 28-38	144		1.20	39,386	5,121	302		13,291			480	48
		TOTAL FOR MAP NO. 8						2.033		190		1.58	60,303	7,931	468		20,345			632	63
	9	SOUTH BOUND US421 JONESTOWN RD. EXIT RAMP	FROM GRASS GORE TO EDGE OF PAVEMENT AT JONESTOWN RD.	7 1	MU	NO	NO	0.221	varies 24-36	53	75	0.44	3,538	439	26					176	18
10341.1	3	TOTAL FOR MAP NO. 9	PROMI GRASS GORE TO EDGE OF PAVEMENT AT JONESTOWN RD.	/ 1	IVIO	NO	NO	0.221	24-30	53	75 75	0.44	3,538	439	26					176	18
09.21.	10	SOUTH BOUND US421 JONESTOWN RD. ON RAMP TOTAL FOR MAP NO. 10	FROM EDGE OF PAVEMENT AT JONESTOWN RD. TO GRASS GORE	8 2	MU	NO	NO	0.1	20	12 12		0.10 0.10	1,173 1,173	146 146	9 9					40 40	4
		TOTAL TOKNIAL NO. 10	BEGIN MAP AT BRIDGE #444 TO END OF CONC. GORE AT I-40					0.1	varies			0.10	1,173	140							<u> </u>
2017CPT	11	SOUTH BOUND US421_I-40 EASTBOUND RAMP	EASTBOUND MERGE	9 2	MU	NO	NO	0.824 0.824	38-44	113 113		0.94 0.94	17,350	2,147 2,147	127 127		7,466 7,466			376 376	38 38
		TOTAL FOR MAP NO. 11	FROM GRASS GORE AT I-40 EAST BOUND RAMP TO GRASS GORE AT					0.824		113		0.94	17,350	2,147	127		7,466			3/0	36
	12	EAST BOUND I-40 SOUTH BOUND US421 RAMP	MERGE FROM SOUTH BOUND US 421	5 2	MU	NO	NO	0.333	38	80		0.67	7,424	919	54		3,516			266	27
		TOTAL FOR MAP NO. 12	FROM BRIDGE NO. 222 (SHT. NO.5) TO PAVEMENT JT. WEST OF					0.333	varies	80		0.67	7,424	919	54		3,516			266	27
	13	NORTH BOUND US421	WILLIAMS RD. NORTHBOUND ON RAMP (SHT. NO.7)	10 2	MD	NO	NO	4.219	29-80	506		7.20	95,240	11,784	695		44,553			2,880	288
		TOTAL FOR MAP NO. 13	FROM GRASS GORE @ EXIT #242 TO E.O.P @ LEWISVILLE CLEMMONS	 				4.219	varies	506		7.20	95,240	11,784	695		44,553			2,880	288
	14	EXIT RAMP	RD. SR 1103	11 2	MD	NO	NO	0.176	27-66	11		0.18	5,358	662	39					72	7
		TOTAL FOR MAP NO. 14						0.176		11		0.18	5,358	662	39					72	7
	15	NORTH BOUND US 421 LEWISVILLE CLEMMONS RD ON RAMP	FROM E.O.P @ LEWISVILLE CLEMMONS RD. SR 1103 TO GRASS GORE	12 2	MD	NO	NO	0.096	23	6		0.10	1,295	161	9					40	4
		TOTAL FOR MAP NO. 15						0.096		6		0.10	1,295	161	9					40	4
	16	NORTH BOUND US 421 WILLIAMS RD EXIT RAMP	FROM GRASS GORE @ EXIT #244 TO E.O.P.@ WILLIAMS RD	13 2	MD	NO	NO	0.152	20	18	96	0.30	1,784	222	13					120	12
	10	TOTAL FOR MAP NO. 16	THOM ON 65 COLE & EARL RETURN OF WEEK WAS IN					0.152		18	96	0.30	1,784	222	13					120	12
	17	NORTH BOUND US 421 WILLIAMS RD ON RAMP TOTAL FOR MAP NO. 17	FROM E.O.P @WILLIAMS RD. TO GRASS GORE	13 1	MU	NO	NO	0.189	20	23	132	0.38	2,218	275	16					152	15
		TOTAL FOR MAP NO. 17	FROM PAVEMENT JT. WEST OF WILLIAMS RD. EXIT #244 RAMP GRASS					0.189	varies	23	132	0.38	2,218	275	16					152	15
	18	SOUTH BOUND US421	GORE (SHT. NO.7) TO BRIDGE NO.221 (SHT. NO.5)	10 2	MU	NO	NO	4.25	29-80	510		7.55	93,045	11,637	687		44,880			302	30
		TOTAL FOR MAP NO. 18		 				4.25	varies	510		7.55	93,045	11,637	687		44,880			302	30
	19	SOUTH BOUND US421 WILLIAMS RD. EXIT RAMP	FROM GRASS GORE @ EXIT #244 TO E.O.P. AT WILLAMS RD. SR 1173	13 1	MU	NO	NO	0.182	20-22	22	100	0.36	2,343	291	17					144	14
	-	TOTAL FOR MAP NO. 19		\vdash				0.182	varios	22	100	0.36	2,343	291	17					144	14
	20	SOUTH BOUND US421 WILLIAMS RD. ON RAMP	FROM E.O.P AT WILLIAMS RD. SR 1173 TO GRASS GORE	13 2	MD	NO	NO	0.197	varies 21-41	24	100	0.39	3,216	399	24					156	16
		TOTAL FOR MAP NO. 20						0.197		24	100	0.39	3,216	399	24					156	16
	21	SOUTH BOUND US421 LEWISVILLE CLEMMONS RD. EXIT RAMP	FROM GRASS GORE @ EXIT 242 TO L/C RD. E.O.P.	13 2	MD	NO	NO	0.111	varies 17-25	13		0.22	2,045	253	15					88	9
		TOTAL FOR MAP NO. 21						0.111		13		0.22	2,045	253	15					88	9
	22	SOUTH BOUND US421 LEWISVILLE CLEMMONS RD. ON RAMP	FROM E.O.P. AT LEWISVILLE CLEMMONS RD TO GRASS GORE	13 2	MD	NO	NO	0.158	varies 15-30	19	84	0.32	2,474	307	18					128	13
	-22	TOTAL FOR MAP NO. 22	TROW E.O.F. AT LEWISVILLE CLEWINIONS RD TO GRASS GORE	13 2	IVID	INU	INU	0.158	13-30	19	84 84	0.32	2,474 2,474	307 307	18					128 128	13
		PR PROJ NO. 2017CPT.09.21.10341.1						17.761		2,022	641	24.25	391,598	49,902	2,944	100	149,697	1	1	6,980	699
TC	OTAL FO	7K FROJ NO. 2017CF1.03.21.10341.1		<u> </u>		1		17.701	<u> </u>	2,022	0.2	24.23	331,330	43,30L	2,344		1.5,057		_	0,500	

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.09.21.10341.1	14	

THERMOPLASTIC AND PAINT QUANTITIES

The content of the	THERMOPLASTIC AND PAINT QUANTITIES													40474 40000 -	40050000																				
S	PROJECT COUN	MAP ROUTE	DESCRIPTION TY	P LANES LAN	NE LENG	STH WIDTH							THERMO			THERMO	THERMO	THERMO								PAINT				PAINT PAINT					4905000000- SNOW
No. of the content							ADVANCE/	TRAFFIC		WHITE	MSG	RT	LT	STR & LT	MERGE	STR	STR & RT	LT & RT						MSG	RT	LT	STR & LT	MERGE	STR	STR & RT LT & RT	PAVEMENT	PAVEMENT	POLYUREA	PAVEMENT	PLOWABLE
The second content of the content								CONTROL		THERMO														ONLY	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW ARROW					MARKERS
Column C											120 IVI	50 IVI	50 IVI	30 IVI	90 IVI	30 IVI	30 IVI	30 IVI																	
Control of the cont	NO	NO	No	0				LS	HR	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA EA					EA
March Marc																																			
## Company of the Com			JONESTOWN RD. (INCLUDES RT. EXIT LANE TO																																
March Marc		1 NORTH BOUND US421		. 2 ME	ID 1.2	97 12-26	1,200	1	450		8	5							4,894	1,355		1,461		8	5						6,249		1,461		115
Part						varies																													
## PART PARTICLES AND PARTICLE		1 NORTH BOUND US421									8	4								4,293				8	4						9,956	674	2,211		115
Windows Wind					2.1		1,200	1	450		16	9							10,557	5,648		3,672		16	9						16,205	674	3,672		230
Column C				3 ML	U 0.1					48		6	4	6					335	714					6	4	6				1.049				
The content of the										48		6	4	6											6	4	6				1,049				-
March Marc																			***	405											075				
March Marc	i l t		FROM E.O.P. JONESTOWN RD. TO GRASS GORE 3																																
Separate service servi	ı l İ																																		
Part																																			
The content of the				2 MC	ID 0.5														4.038	3.156		352									7.194		352		
Part			GONE / I I I I I I I I I I I I I I I I I I																																
Mile																																			
			EAST BOUND I-40 RAMP TO BRIDGE # 444 4	2 ME						+																									
Part	1	TOTAL TOK WAF NO. 3	FROM EXISTING PVMT JT AT GRASS GORE AT EXIT		0.2	,,													330	1,032		443									1,772		443		
Windows Wind																																			
Part			RD 5	2 ML																															72 72
Fig. Section of the content of t			FROM GRASS GORE TO PVMT. JT EAST OF GRASS		1.0														3,505	0,000		1,031									10,571		1,031		
## CONTROLLED AND THE PROPERTY OF THE PROPERTY		7 RAMP		2 ML		69 24-26																													
## CONTROLLED STATE OF THE PROPERTY OF THE PRO		TOTAL FOR MAP NO. 7	EDONA CRASS CODE AT ON DAMAD EDOMA DEACE		0.2	69													1,433	1,340											2,773				
Part						varies																													
Second Continue		8 SOUTH BOUND US421		. 2 ML	U 0.6														5,335	3,525		1,274									8,860		1,274		88
Second Continue			50014 00155 0005 17 5W7 000 70 NW7 77																																
## Company of the Com						varies																													
				. 2 ML	IU 1.3						8	4			8					7,188				8	4			8			17,461		2,018		175
Part					2.0						8	4			8				15,608	10,713		3,292		8	4			8			26,321		3,292		263
## STATES	11.1			1 M	111 0.2					52		2	4			2			920	1 225		52			2	4			2		2 245		52		
9 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	103,		JONESTOWN NB.	1 1010								3	4			3									3	4			3						
The control of the	9.21. syth	SOUTH BOUND US421 JONESTOWN RD.																																	
SUPPLIANCE AND MAN TO 3 1 SUPPLIANCE AND SERVICE AND S	7.09 For		TO GRASS GORE 8	2 ML																															
1	170		BEGIN MAP AT BRIDGE #444 TO END OF CONC.		U.															530											530				
The control of the	50.	11 RAMP		2 ML	U 0.8										3				5,473	4,240								3			9,713				71
Martine Mart		TOTAL FOR MAP NO. 11			0.8	24									3				5,473	4,240								3			9,713				71
1 1 1 1 1 1 1 1 1 1		FAST BOUND I-40 SOUTH BOUND US421																																	
1 SOUTH SQUARE DESCRIPTION 1 1 1 1 1 1 1 1 1				2 ML	U 0.3	33 38													2,226	1,740											3,966				22
## STATE STATE OF STA		TOTAL FOR MAP NO. 12			0.3	33													2,226	1,740											3,966				22
NOTIFIC RECORD LOCATION 10 10 10 10 10 10 10 1						varies																													
NOTITION COLUMN AND TO THE ADDRESS OF THE ADDRESS		13 NORTH BOUND US421		0 2 ME	ID 4.2						8	4			3				29,090	22,276	1,269	1,991		8	4			3			51,366	1,269	1,991		278
1 CLIMBOURS DEPT FAME THE PROPERTY CLIMBOURS OF PRINTS 1 2 50 CP 76					4.2						8	4			3				29,090	22,276	1,269	1,991		8	4			3			51,366	1,269	1,991		278
TOTAL FORM MAP 0.1 M. ST. PORT LEVEN MAP 0.1				1 2 MC	ID 0.1	varies 76 27-66						2	2	2		1	1		1.449	025	161		97		2	2	2		1	1	2 272	161		97	
NOTIN FOLIAND SET LEMBORIES			LEWISVIELE CLEININIONS NO. 3N 1103	2 1410							8	3	2	2		1	1						٠,	8	3	2	2		1	1		101		J.	
TOTAL PRIMARY NO. 15 NO. N		NORTH BOUND US 421 LEWISVILLE																																	
15 NOTH BOUND SET WILLIAMS BOUT IT STATE OF THE SET BOUT OF EAR OF THE SET BOUT OF EAR OF THE SET BOUT OF THE	-		1103 TO GRASS GORE 12	2 2 ME																															
TOTAL FOR MAN PIN. 15 NOME BOURD US-21 LIGHT MAN PIN. 15 TOTAL FOR			FROM GRASS GORE @ EXIT #244 TO E.O.P.@																																
NORTH BOUND US-22 WILLAMS BO POWNED FOR MANY FOR THE WORK SORT 1,700 1		16 RAMP																																	
TOTAL FOR MAY NO. 17					0.1	52													800	730											1,530				
TOTAL FOR MAY NO. 17 SUPPLE PROPRIATE FOR MAY MAKEN ST. IT WEST OF WILLIAMS RD. ST. PLAN				3 1 ML	U 0.1	89 20													920	870											1,790				
EXIT EAR AMAP GRASS CORE (EVIT 70.71 TO TO TO SHOURD USS221 (SHT NO.7) TO SHOURD USS22		TOTAL FOR MAP NO. 17			0.1	89													920	870											1,790				
18 SOUTH BOUND US\$21 MULLANS RD. EXT FROM GRASS GORE EXIT 244 TO E.O.P. AT LEWISYLLE ERMON'S RD. OT TOTAL FOR MAP PNO. 21 CLEMMON'S RD. OT TOTAL FOR MAP PNO. 22 TOTAL FOR MAP PNO. 21 CLEMMON'S RD. OT TOTAL FOR MAP PNO. 21 CLEMMON'S RD. OT TOTAL FOR MAP PNO. 22																																			
TOTAL FOR MAP NO. 18 SOUTH BOUND USEZ1 WILLMANS BD, OR FROM GRASS GORE @ EXT FIZAM TO E.O.P. AT WILLMAR SD, OR TATA TO EACH TO E.O.P. AT WILLMAR SD, OR TATA TO EACH		18 SOUTH BOUND US421		0 2 ML	IU 4.2										9				28,802	22,440	792	1,991									51,242	792	1,991		281
19 SAMP WILLIAMS RD. SR 173 13 1 WILLIAMS RD. SR 173 13 2 WD 0.192 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153 13.625 97 44 31 10 8 20 4 1 2 198,773 3.153		TOTAL FOR MAP NO. 18			4.2										9																	792	1,991		281
TOTAL FOR MAP NO. 29 TOTAL FOR MAP NO. 29																			4.005	000											2 002				
SOUTH BOUND US21 WILLIAMS RD. ON FROM E.O. PAT WILLIAMS RD. SO. 1173 TO GRASS GORE 13 2 MD 0.197 21.41			WILLAMS RD. SR 11/3 1:	3 1 ML																															
TOTAL FOR MAP NO. 20 SOUTH BOUND USE? LIEW/MONS RD. EXT RAMP FROM GRASS GORE @ EXT 242 TO L/C R. E.O.P. 13 2 MD 0.111 17-25 4 2 2 5 2 1,304		SOUTH BOUND US421 WILLIAMS RD. ON				varies																													-
SOUTH BOUND USA21 LEWISVILLE CLEMMONS RD LEWISVILLE CLEMMON S RD LEWIS CLEMEN S ROS LEWIS C			GORE 13	3 2 MD									-	1	3										1			3							
21 CLEMMONS BD. EXIT RAMP FROM GRASS GORE @ EXIT 242 TO L/C RD. E.O.P. 13 2 MD 0.111 17-25 4 2 5 5 5 5 5 5 5 5 5				+	0.1		-				-	1	1		3			+ +	1,010	990	257	+						3			2,000	257			
TOTAL FOR MAPP NO. 21 SOUTH BOUND USEZ1 LEWINVILLE FROM E.O.P. AT LEWISVILLE CLEMMONS RD TO 13 2 MD 0.158 15-30 17-61 1200 1 450 101 44 31 10 8 29 4 1 2 110,241 88,532 2,479 13,625 97 44 31 10 8 20 4 1 2 198,773 3,153 13,625 97 13,625 97 13,625 97 14,625 15-30 13,625 97 14,625 15-30 13,625 97 13,625 97 14,625 15-30 13,625 97 13,625 97 14,625 15-30 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 15-30 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 97 13,625 15-30 13,625 97 13,625 97 13,625 97 13,625 97 13,625 15-30 13,625 97 13,625 15-30 13,625 13,625 97 13,625 13,625 13,625 97 13,625			FROM GRASS GORE @ EXIT 242 TO L/C RD. E.O.P. 13	3 2 ME	ID 0.1						4	2						2	769	535				4	2					2	1,304				
22 CLEMMONS BD. ON RAMP GRASS GORE 13 2 MD 0.158 15-30		TOTAL FOR MAP NO. 21									4	2						2						4	2					2					
TOTAL FOR MAP NO. 22 10.158			FROM E.O.P. AT LEWISVILLE CLEMMONS RD TO	. . .		varies					1				T			1 7		200		T	T			Ţ	T	, T	_				T	T	_
TOTAL FOR PROJ NO. 2017CPT.09.21.10341.1 17.61 1,200 1 450 101 44 31 10 8 29 4 1 2 110,241 88,532 2,479 13,625 97 44 31 10 8 20 4 1 2 198,773 3,153 13,625 97 97 97 97 97 97 97 9			GRASS GORE 13	3 2 MC					1			1	1		3			+										3		 					
GRANDITIAL 1,200 1 450 101 44 31 10 8 29 4 1 2 110,241 88,532 2,479 13,625 97 44 31 10 8 20 4 1 2 198,773 3,153 13,625 97	TOTAL						1,200	1	450	101	44	31	10	8		4	1	2	110,241	88,532	2,479	13,625	97	44	31	10	8		4	1 2		3,153	13,625	97	1,217
	- IOIAL														85															• •					
			T T	1 1	177	761	1 200	1	450	101	лл	21	10	0	20		1	,	110 241	88 522	2 479	13 625	97	44	21	10	8	20		1 2	192 772	3 152	13 625	97	1 217
		GRAND TOTAL			17.7	.01	1,200	1	450	101	44	31	10		29 85	4	1 1				2,479	13,023	71	+4	31	10	•	76	4	1 1 2	176,//3	3,133	13,025	7/	1,2

FORSYTH Resurfacing

									PROJECT NO.		SHEET NO.
									2017CPT.09.21.10341.1		15
Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
1,8	1891	PEACE HAVEN RD.	226	US421	NA	NA	71	15FT 11 IN WBL 14FT 05 IN EBL	231	NA	INFORMATION ONLY
1,6,8	SR 1122	JONESTOWN RD.	239	US421	NA	NA	71	17FT 00 IN WBL 16FT 10 IN EBL	256	NA	MILL UNDER MAINTAIN CLEARANCE
4	I-40	I-40	436	SR3153 Hanes Mall Blvd.	NA	NA	74	17FT 00 IN I-40 WBL 16FT 05 IN I-40 EBL	293	NA	INFORMATION ONLY
12	I-40	I-40	610	SR3153 Hanes Mall Blvd.	NA	NA	74	17FT 02 IN I-40 WBL 16FT 06 IN I-40 EBL	293	NA	INFORMATION ONLY
12	I-40	I-40	610	SR3153 Hanes Mall Blvd.	NA	NA	74	17FT 02 IN I-40 WBL 16FT 06 IN I-40 EBL	293	NA	INFORMATION ONLY
4,8	US421 EBL	US421 EB	249	I-40 BUS WBL	8 3/4 RC SLAB	40	47	17FT 02 IN EBL	318	NA	Do Not Pave on Bridge MILL UNDER MAINTAIN CLEARANCE
4,6,8,12	I-40 WBL RAMP	I-40 WBL RAMP	509	I-40 BUS & US421 EBL	8 3/4 RC SLAB	40	NA	17FT 3 IN 20FT 8 IN I-40 BUS EBL 27FT 3 IN I-40 BUS WBL	823	NA	Do Not Pave on Bridge MILL UNDER MAINTAIN CLEARANCE
4,5,11,12	US421 EBL RAMP	US421 EBL RAMP	444	I-40 & I-40 BUS	8 3/4 RC SLAB	48	53	18FT 8 IN 19FT 10 IN 40BUS EB 20FT 3 IN 40 BPY EB 24FT 11 IN 40BUS-WB	592	NA	Do Not Pave on Bridge MILL UNDER MAINTAIN CLEARANCE
12	I-40 WBL	I-40 WBL	508	I-40 BUS EBL	9 1/4 RC SLAB	56	NA	17FT 01 IN	394	NA	MILL UNDER MAINTAIN CLEARANCE
13	US421 NBL	US421 NBL	222	Muddy Creek	8 3/4" RC SLAB	77	NA	NA	213	NA	Do Not Pave on Bridge
13,15,18	SR1103	Lewisville-Clemmons Rd.	213	US421	8 1/2" RC SLAB	90.8	73.5	17FT 02 IN US421 EBL 17FT 09 IN US421 WBL	213	NA	MILL UNDER MAINTAIN CLEARANCE
13,18	SR1160	Reynolds Rd.	196	US421	6 3/4 RC SLAB	28	36.3	15FT 03 IN US421 EBL 15FT 08 IN US421 WBL	241	NA	MILL UNDER MAINTAIN CLEARANCE
13,18	SR1171	Concord Ch Rd .	187	US421	6 3/4 RC SLAB	28	36.3	15FT 03 IN US421 EBL 15FT 08 IN US421 WBL	211	NA	MILL UNDER MAINTAIN CLEARANCE
18	US421 SBL	US421 SBL	221	Muddy Creek	8 3/4" RC SLAB	77	NA	NA	213	NA	Do Not Pave on Bridge

DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER AND WITH DIVIDED MEDIANS

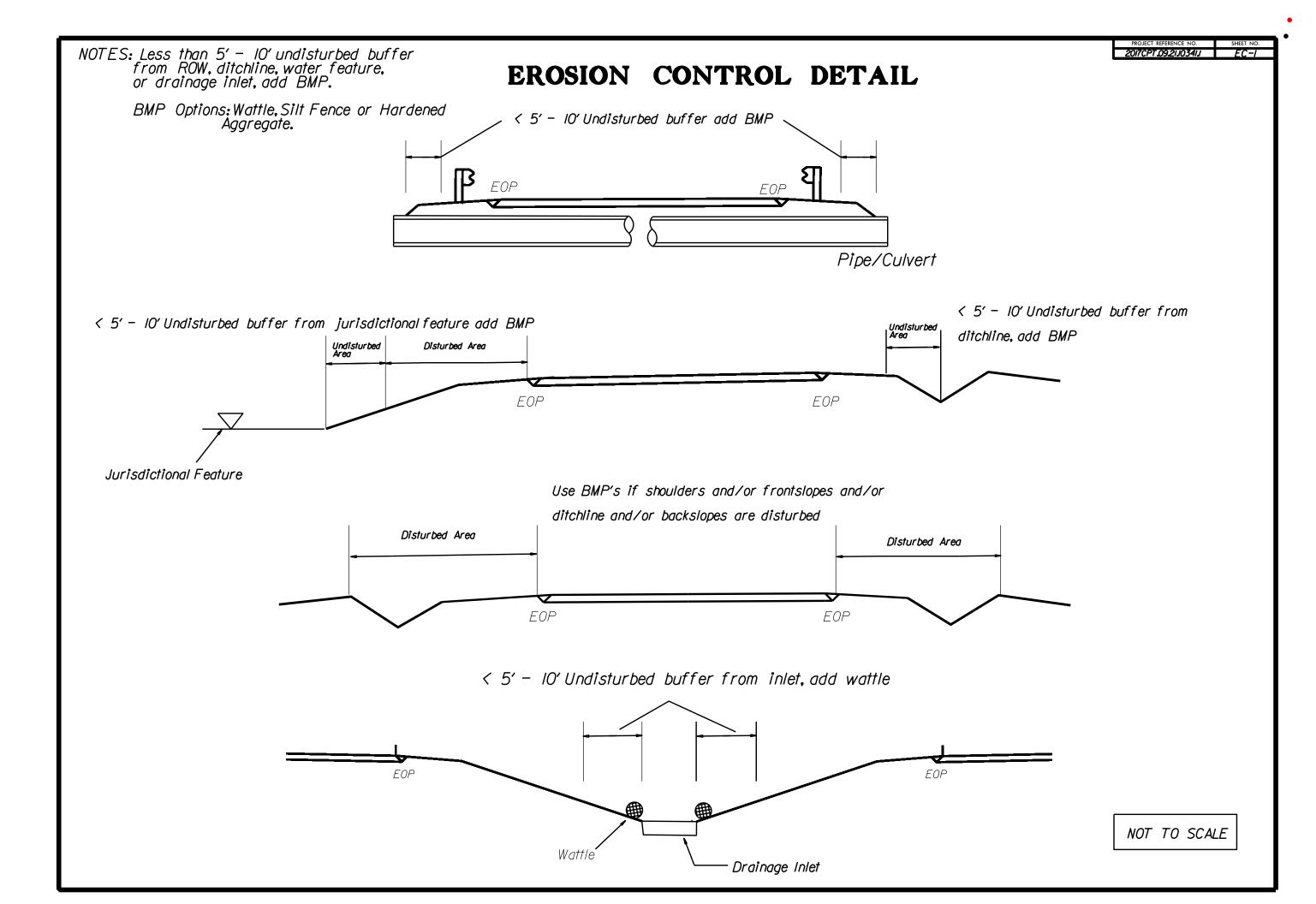
OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE

TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

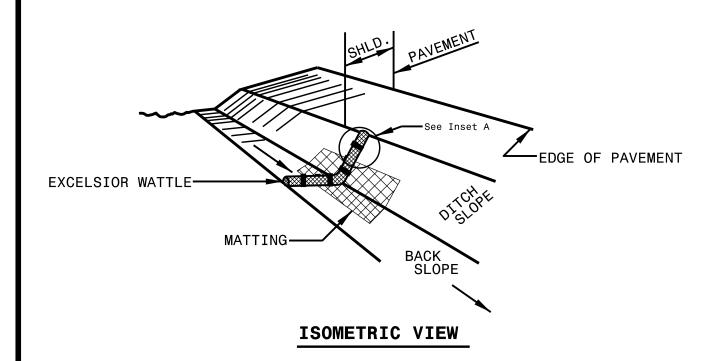
HIGH SPEED FACILITIES

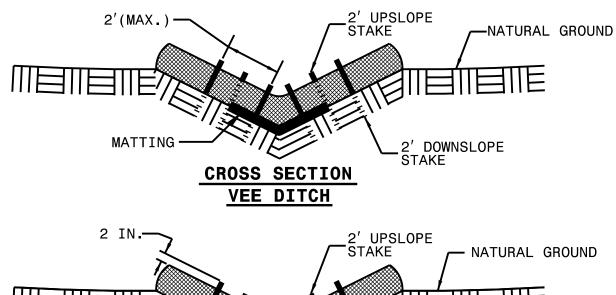
≥ 60 MPH

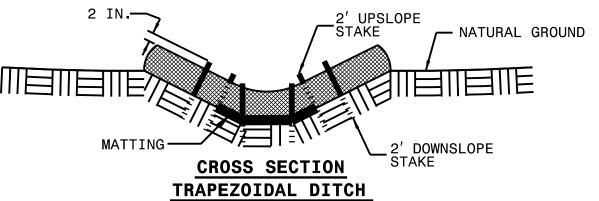
TRAFFIC DRUM



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.

