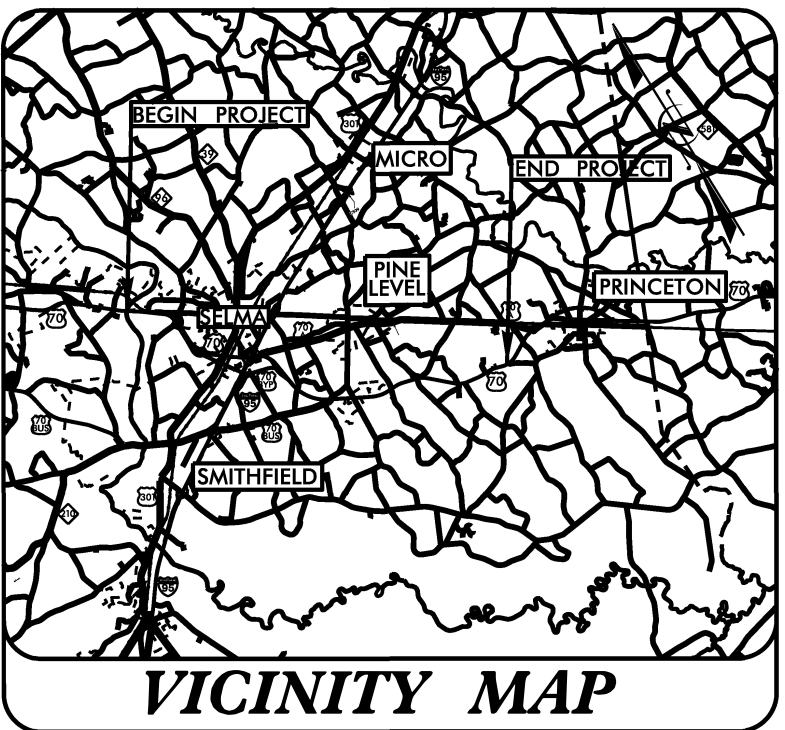


09/28/19

TIP PROJECT: I-6044

CONTRACT: C204333

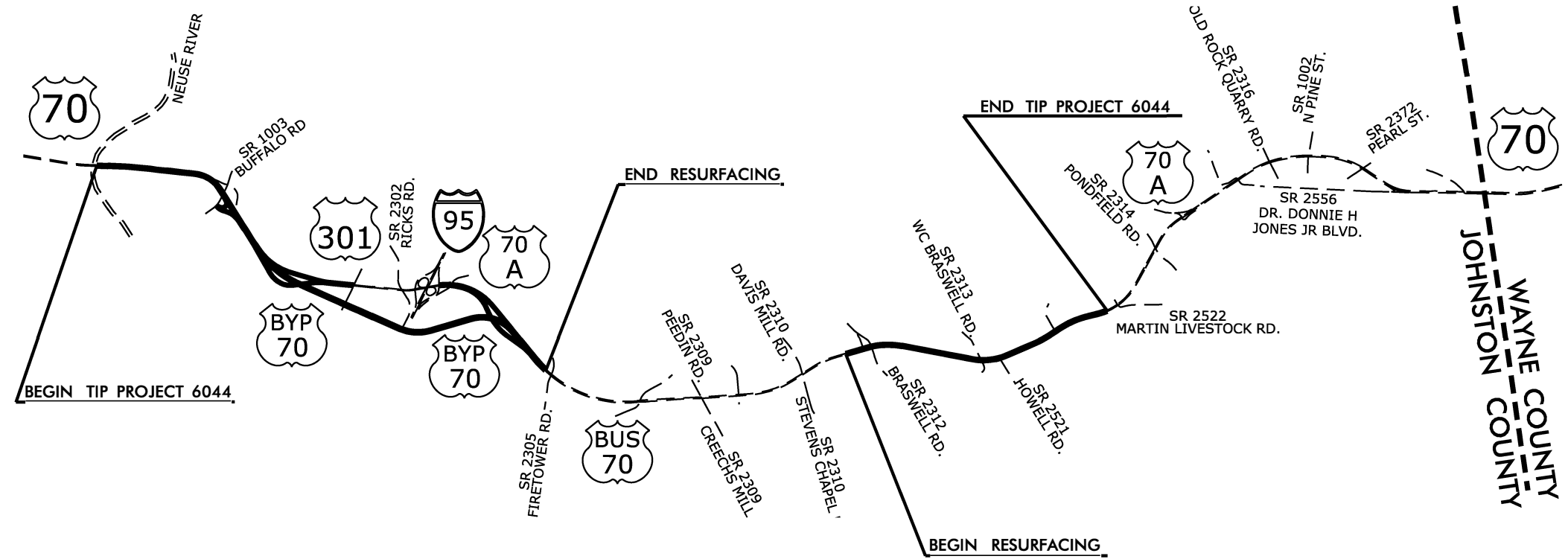


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
JOHNSTON COUNTY

**LOCATION: US 70 (FUTURE I-42) FROM SR 1003 (BUFFALO RD.)
TO WAYNE COUNTY LINE**

**TYPE OF WORK: MILLING, PAVING, DRAINAGE REPAIR,
AND GUARDRAIL REPLACEMENT**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-6044	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47993.1.1		PE	
47993.3.GV1	NHPIM-0042(076)	CONST	



31-JAN-2019 09:26
3-VTC-6044-DDC4-tsh.dgn
\$\$\$USERNAME\$\$\$

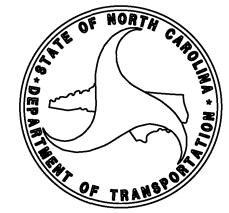
DESIGN DATA
ADT 2016 = 28,000
V = 60 MPH

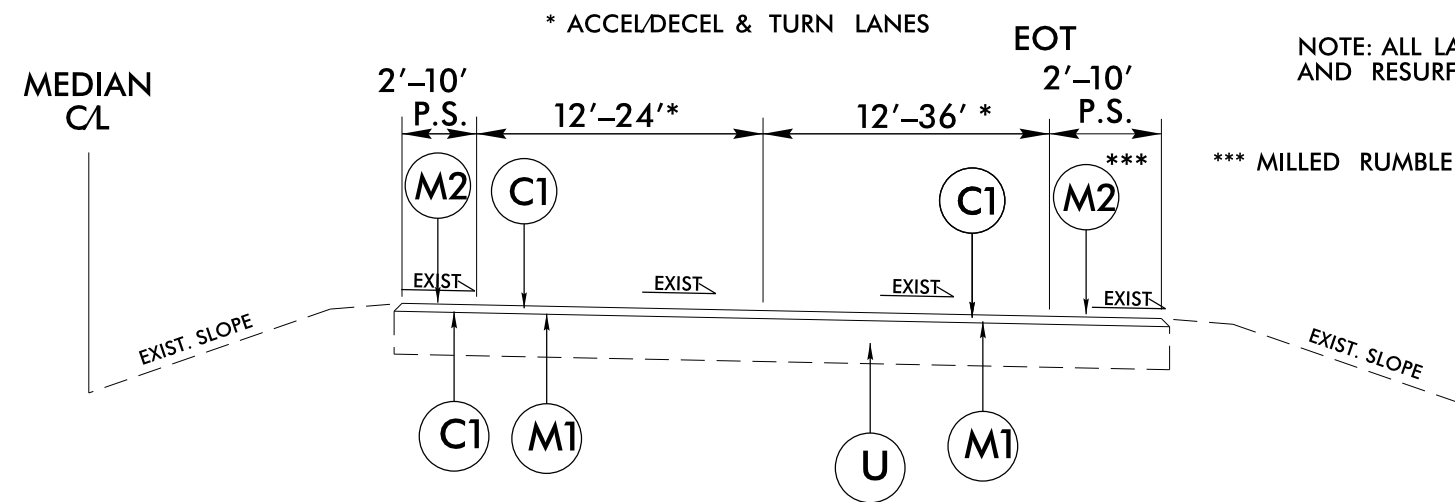
FUNC CLASS =
PRINCIPAL ARTERIAL
STATEWIDE TIER

PROJECT LENGTH
LENGTH ROADWAY TIP PROJECT I-6044 EBL = 7.49 MI
LENGTH ROADWAY TIP PROJECT I-6044 WBL = 7.49 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS
Division 4 DDC
509 Ward Blvd. Wilson NC 27895

2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: NA	R.L. KEETER, PE PROJECT ENGINEER
LETTING DATE: MAY 21, 2019	N.A. GAINY, PE PROJECT DESIGN ENGINEER





TYPICAL SECTION NO. 1

NOTE: ALL LANES AND PAVED SHOULDERS TO BE MILLED AND RESURFACED

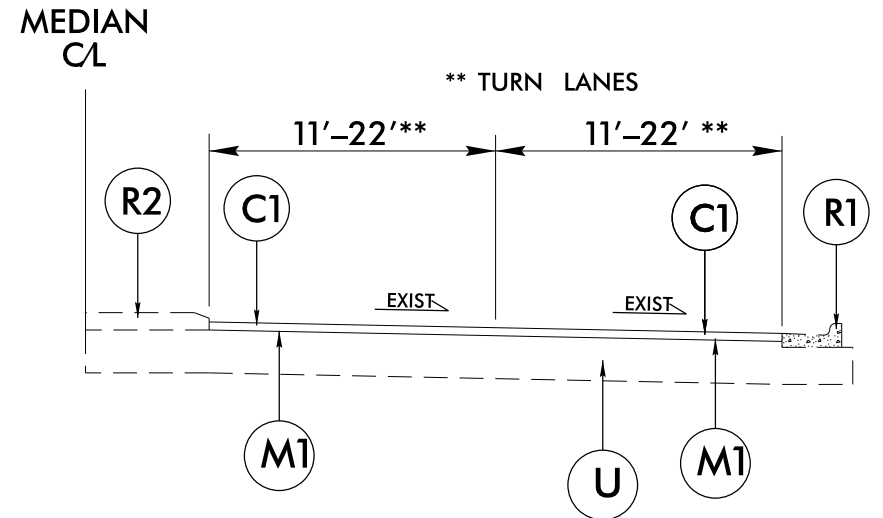
*** MILLED RUMBLE STRIPS ONLY ON US-70 BYPASS

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
M1	MILL EXISTING ASPHALT PAVEMENT 1.5" IN DEPTH
M2	MILLED RUMBLE STRIPS
R1	EXISTING 2'6" CONCRETE CURB AND GUTTER
R2	EXISTING CONCRETE ISLAND
U	EXISTING PAVEMENT

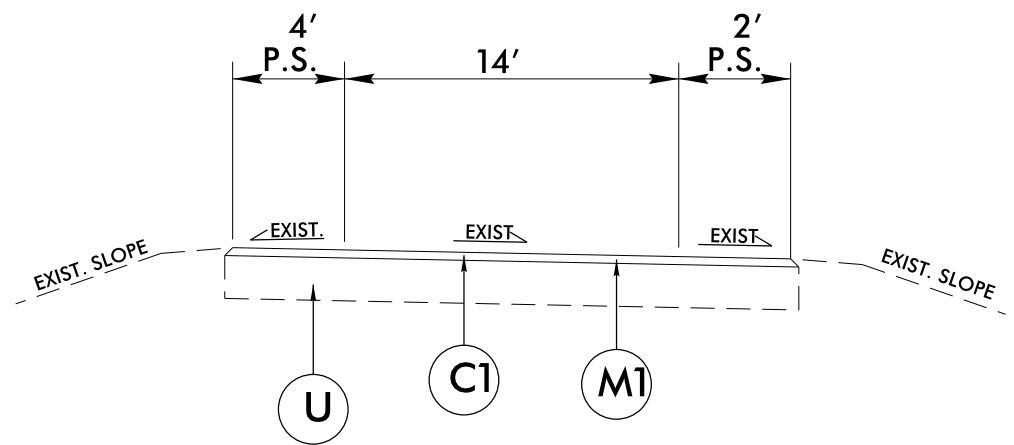
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

MILLING AT BRIDGES

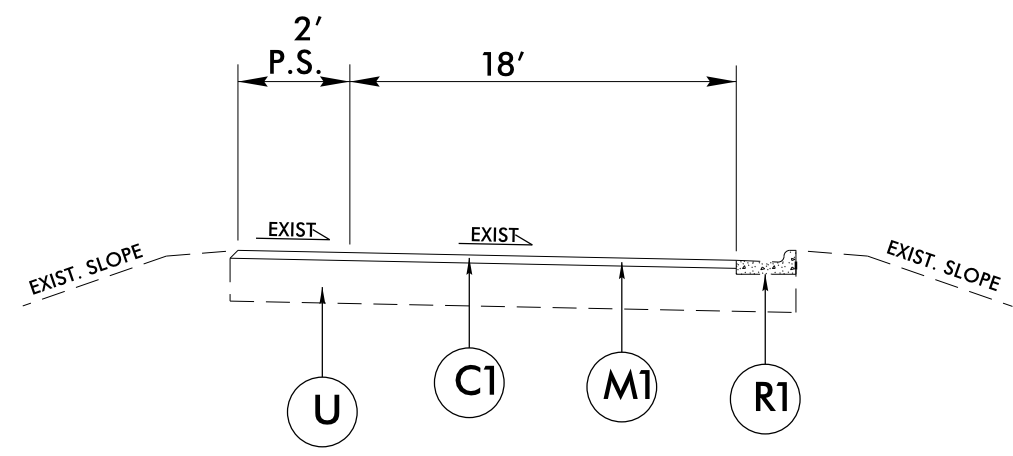
MILL AS NECESSARY AT OVERPASS LOCATIONS TO MAINTAIN EXISTING OVERHEAD CLEARANCE



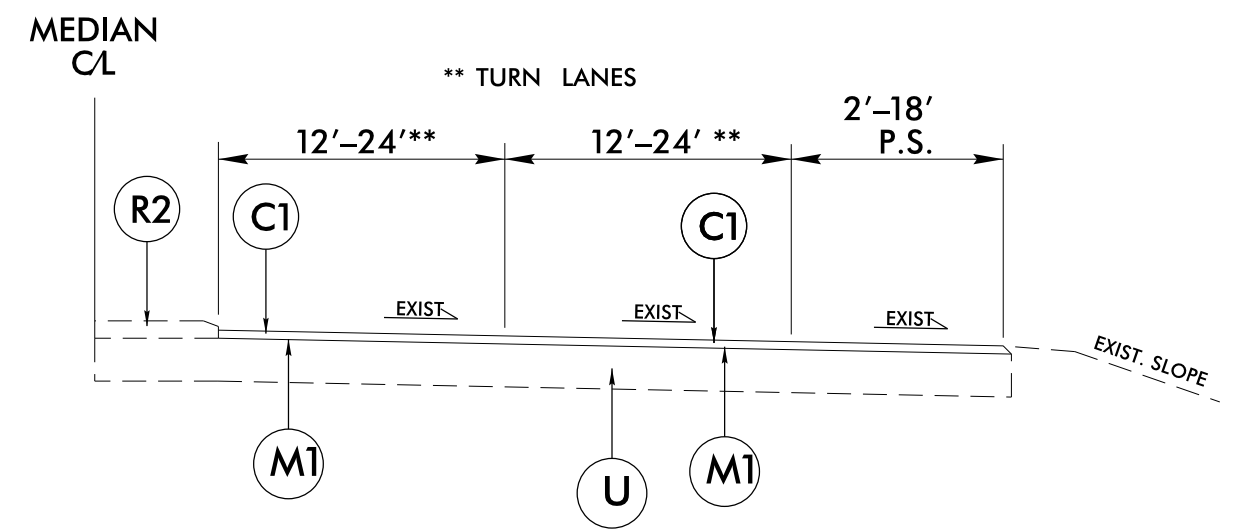
TYPICAL SECTION NO. 2



TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 4

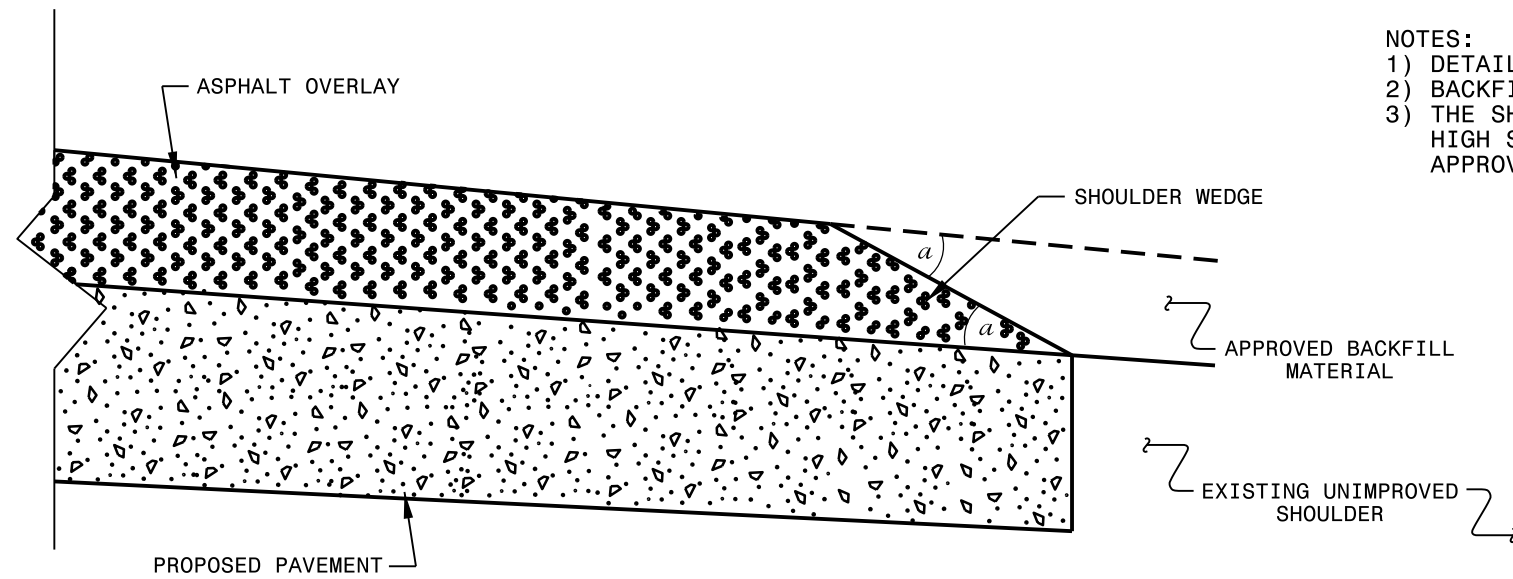


TYPICAL SECTION NO. 5

6/2/99
 Q1-FEB-2019 09:48
 S:\Contracts\Contract\Resurfacing Projects\Division 4\1-6044 Johnston\1-6044.DDC4.dgn
 1-6044-47993.31

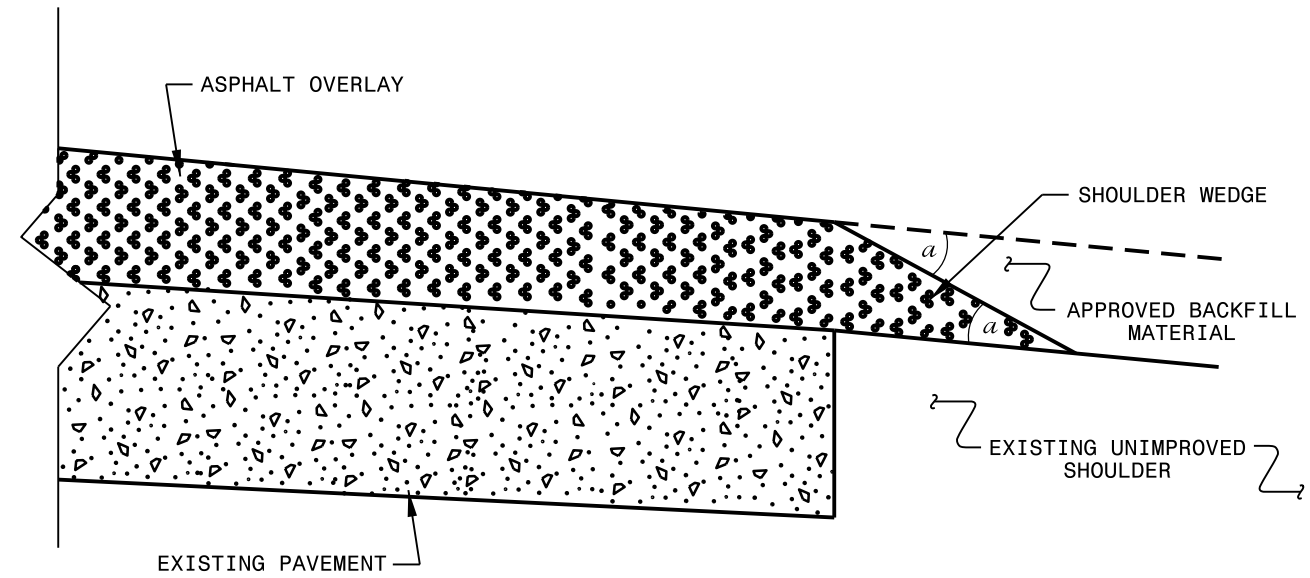
NOTES:

- 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.



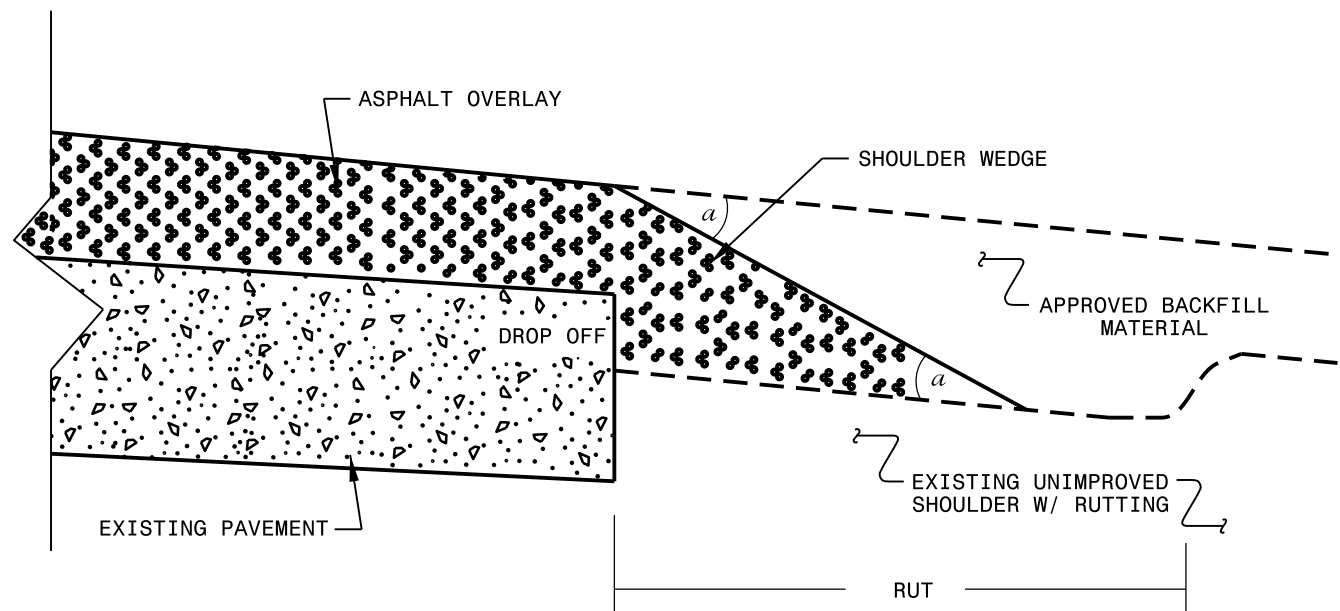
SHOULDER WEDGE DETAIL

(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.: szusr/details/stand/shoulderwedgedetail.dgn		

PROJECT NO.	SHEET NO.	TOTAL NO.
I-6044 - 47993.3.1	7	

SUMMARY OF QUANTITIES - DRAINAGE

PROJECT NUMBER	COUNTY	BOX NUMBER	ROUTE	LONG	LAT	DESCRIPTION	UNCL	BORR	FOUNDATION	FOUNDATI	15" RC	18" RC	24" RC	30" RC	48" RC	PIPE	INCID	PIPE	FLOW	MASO	MASON	FRAME	CONCRE	SEDIM	1/4"	WAT	SEEDIN		
							ASSIFI	OW	CONDITIONING	ON	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	REMOVAL	ENT	COLLAR	ABLE	NRY	RY	WITH	TE	MENT	HARD	TL	G	
							ED	EXCA	MATERIAL,	ONING	CULVE	CULVE	CULVER	CULVER	CULVE	OV	AL	S	FILL	DRAIN	DRAIN	TWO	APRON	CONTR	WARE	MULCH			
							EXCA	VATIO	MINOR	GEOTEXT	RTS,	RTS,	TS,	TS,	RTS,		STON		STRUC	AGE	GE	GRATES		OL	CLOTH	ING			
							VATIO	N	STRUCTURES	ILE	CLASS	CLASS	CLASS	CLASS	CLASS	BASE	TON		TURES	EA	STRUCT	, STD	STONE						
							ION	ION	TON	SY	LF	LF	LF	LF	LF				EA	EA	URES	EA	EA	TON	LF	LF	ACR		
I-6044	JOHNSTON	1	U-70 Median	-78.309	35.532	REMOVE AND REPLACE DRAINAGE STRUCTURE		6	1	3	8					8		0.399	16	1		1		5	40	40	0.1		
		2	U-70 Median	-78.308	35.531	REMOVE AND REPLACE DRAINAGE STRUCTURE		11	1	3	8						8		0.399	32	1		1		5	40	40	0.1	
		3	U-70 Median	-78.308	35.530	REMOVE AND REPLACE CONCRETE APRON																	1		5	40	40	0.1	
		4	U-70 Median	-78.306	35.528	REMOVE AND REPLACE DRAINAGE STRUCTURE		3	1	3	8							8		0.399	8	1		1		5	40	40	0.1
		5	U-70 Median	-78.231	35.480	REMOVE AND REPLACE DRAINAGE STRUCTURE		11	2	6					16		16		1.312	32	1		1		5	40	40	0.1	
		6	U-70 Median	-78.225	35.476	REMOVE AND REPLACE DRAINAGE STRUCTURE		8								16	16		1.528	24	1		1		5	40	40	0.1	
		7	U-70 Median	-78.223	35.475	REMOVE AND REPLACE DRAINAGE STRUCTURE		8	2	6					16		16		1.312	24	1		1		5	40	40	0.1	
		8	U-70 Median	-78.223	35.474	REMOVE AND REPLACE DRAINAGE STRUCTURE		3	1	3	8						8		0.399	8	1		1		5	40	40	0.1	
		9	U-70 Median	-78.221	35.473	REMOVE AND REPLACE DRAINAGE STRUCTURE		11	1	3			8				8		0.553	32	1		1		5	40	40	0.1	
		10	U-70 Median	-78.218	35.471	REMOVE AND REPLACE DRAINAGE STRUCTURE		14	1	3	8						8		0.399	40	1		1		5	40	40	0.1	
		11	U-70 Median	-78.217	35.471	REMOVE AND REPLACE DRAINAGE STRUCTURE		3	1	3	8						8		0.399	8	1		1		5	40	40	0.1	
		12	U-70 Median	-78.216	35.470	REMOVE AND REPLACE DRAINAGE STRUCTURE		3	1	3	8						8		0.399	8	1		1		5	40	40	0.1	
		13	U-70 Median	-78.215	35.470	REMOVE AND REPLACE DRAINAGE STRUCTURE		8	1	3	8						8		0.399	24	1		1		5	40	40	0.1	
		14	U-70 Median	-78.211	35.470	REMOVE AND REPLACE DRAINAGE STRUCTURE		40	1	3	8						8		0.399	120	1		1		5	40	40	0.1	
		15	U-70 Median	-78.208	35.470	REMOVE AND REPLACE DRAINAGE STRUCTURE			1	3	8						8		0.399		1		1		5	40	40	0.1	
		16	U-70 Median	-78.206	35.470	REMOVE AND REPLACE DRAINAGE STRUCTURE		11	1	3	8						8		0.399	32	1		1		5	40	40	0.1	
		17	U-70 Median	-78.205	35.470	REMOVE AND REPLACE DRAINAGE STRUCTURE		16	1	3	8			8			8		0.553	48	1		1		5	40	40	0.1	
TOTAL								156	17	51	88		16	32	16	152		9.646	456	16		16	1	85	680	680	1.7		
SAY							200	200	20	55	88	16	16	32	16	200	500	10	500	16	10	16	1	85	680	680	2		

Note: Borrow and Unclassified excavation are included to cover any excavation of unsuitable soils at the drainage repair locations that falls outside the limits of the excavation required to remove the old drainage structure and place the new one.

PROJECT NO.	SHEET NO.	TOTAL NO.
I-6044 - 47993.3.1	8	

SUMMARY OF QUANTITIES - ASPHALT

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1.5" MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	MILLED RUMBLE STRIPS STD DRW 665.01	IMPACT ATTENUATORS MASH TL-3	STEEL BEAM GUARD RAIL	ADD'L GUARD RAIL POSTS	GUARD-RAIL END UNITS, TYPE TL-3	RE-MOVE EXI. GUARD RAIL	INDUC-TIVE LOOP SAWCU T		
																						NO	MI
I-6044	JOHNSTON	1	US 70/US 70 BYP WBL	END NEUSE RIVER BRIDGE TO 350' WEST OF SR 2305	1	2	MD	NO	NO	4.95	30	97,989	8,232	470	29,580								
		2	US 70/US 70 BYP EBL	END NEUSE RIVER BRIDGE TO 350' WEST OF SR 2305	1	2	MD	NO	NO	4.95	30	94,474	7,936	453	29,580								
		3	US 70 WBL	1300' WEST OF SR 2305 TO 600' WEST OF SR 2522	1	2	MD	NO	NO	2.54	30	51,801	4,352	249									
		4	US 70 EBL	1300' WEST OF SR 2305 TO 600' WEST OF SR 2522	1	2	MD	NO	NO	2.54	30	51,562	4,332	247									
		5	EBL EXIT LOOP	US 70 TO SR 1003	4	1		NO	NO	0.12	20	1,656	140	8								200	
		6	EBL ENTRY RAMP	SR 1003 TO US 70	3	1		NO	NO	0.2	20	2,700	227	13									
		7	WBL ENTRY LANES	US 301 TO US 70	1,2	2		NO	NO	0.87	30	15,319	1,287	74									
		8	EBL EXIT LANES	US 70 TO US 301	1,2	2		NO	NO	1	30	16,287	1,369	79									200
		9	WBL EXIT LANES	US 70 TO END BRIDGE OVER I-95	1,5	2		NO	NO	0.86	30	15,900	1,336	77									600
		10	EBL ENTRY LANES	END BRIDGE OVER I-95 TO US-70	1,5	2		NO	NO	1.12	30	21,714	1,824	104				3	2,350	10	53	4,700	600
GRAND TOTAL FOR PROJ NO. I-6044 47993.3.1										19.15		369,402	31,035	1,774	59,160	3	2,350	10	53	4,700	1,600		

