

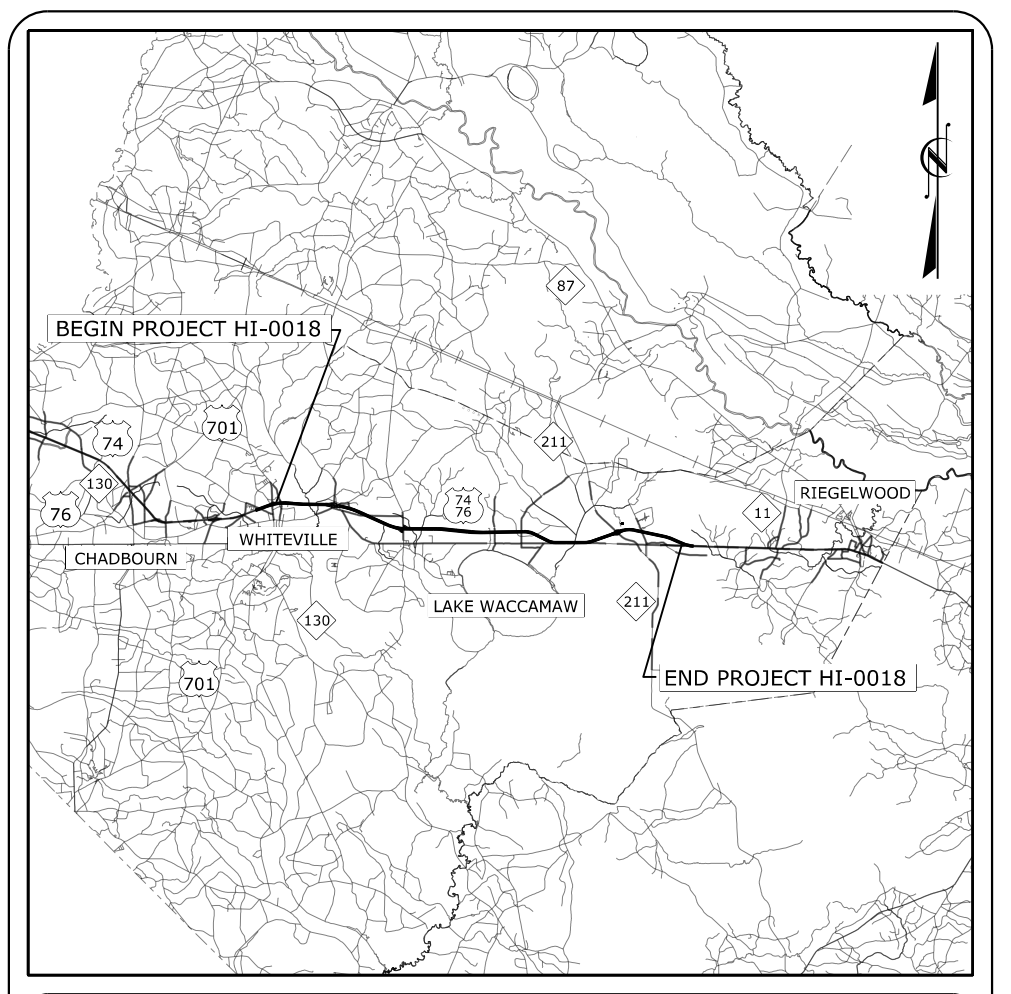
09_08/2019

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HI-0018	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49989.1.1	0074247	PE	
49989.3.1	0074247	CONST	

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
COLUMBUS COUNTY

LOCATION: US 74 (FUTURE I-74) FROM 0.11 MILES EAST OF US 701 BUSINESS TO 0.17 MILES WEST OF NC 214

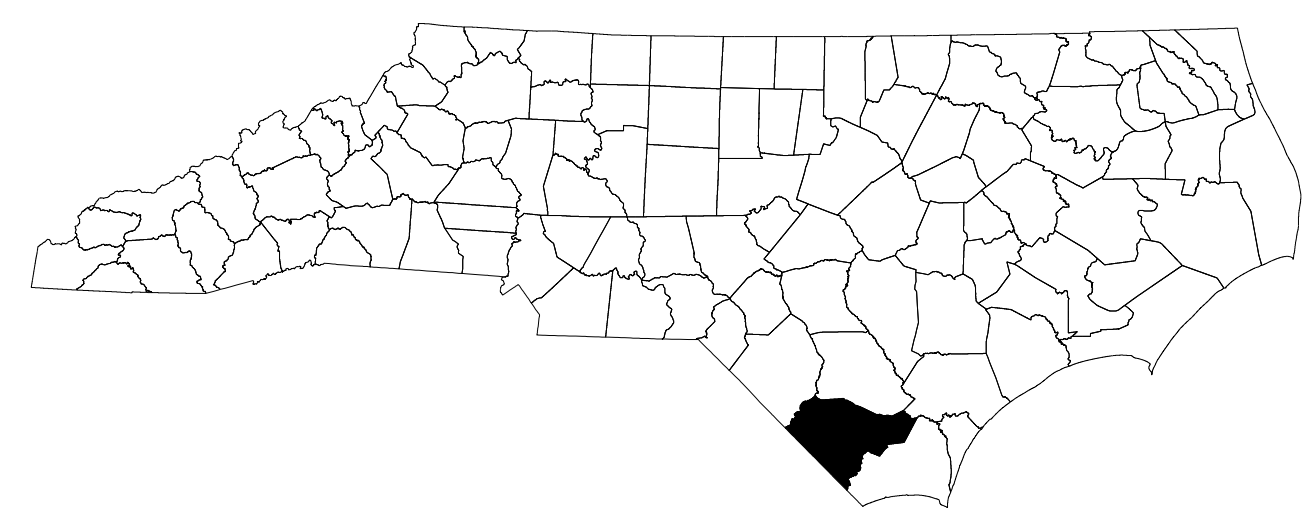
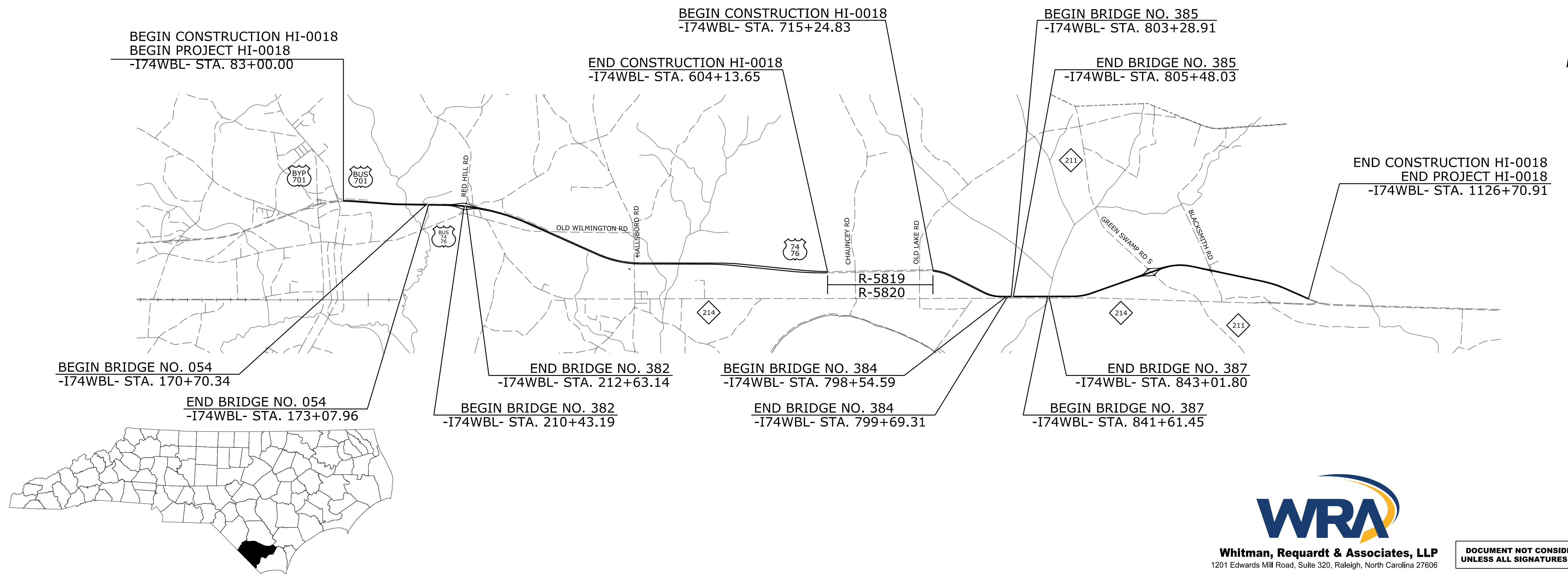
TYPE OF WORK: DRAINAGE, PAVEMENT REHABILITATION, & BRIDGE REHABILITATION



VICINITY MAP
N.T.S.

TIP PROJECT: HI-0018

CONTRACT: C204994



Whitman, Requardt & Associates, LLP
 1201 Edwards Mill Road, Suite 320, Raleigh, North Carolina 27606

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

DESIGN DATA	
AADT2021 =	16,500
V =	70 MPH FROM BUS 701 TO JUST EAST OF SR 1735 (CHAUNCEY TOWN RD)
V =	60 MPH FROM EAST OF SR 1735 (CHAUNCEY TOWN RD) TO EAST OF NC 214
FUNC CLASS =	FREEWAY WEST OF BLACKSMITH RD PRINCIPAL ARTERIAL EAST OF BLACKSMITH RD

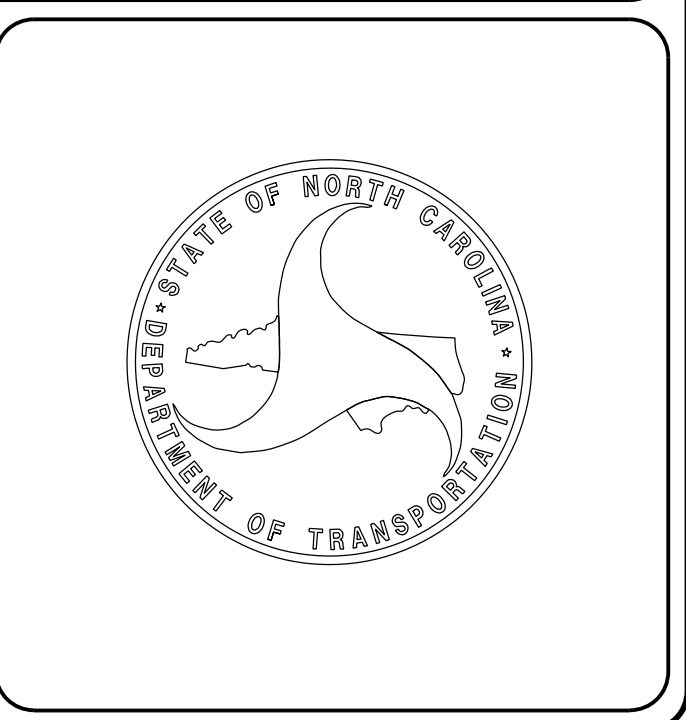
PROJECT LENGTH	
LENGTH ROADWAY TIP PROJECT HI-0018 WBL =	17.501 MI
LENGTH STRUCTURE TIP PROJECT HI-0018 WBL =	0.362 MI
TOTAL LENGTH OF TIP PROJECT HI-0018 WBL =	17.863 MI

Prepared In the Office of: DIVISION OF HIGHWAYS 431 Transportation Dr, Fayetteville NC, 28301	
2024 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	N/A
LETTING DATE:	FEBRUARY 18, 2025
	ALEX HENDERSON NCDOT CONTACT PROJECT MANAGER
	DOUGLAS SAUNDERS, PE PROJECT ENGINEER
	WILLIAM TILLITT, PE PROJECT DESIGN ENGINEER

12/18/2024

Signed by:

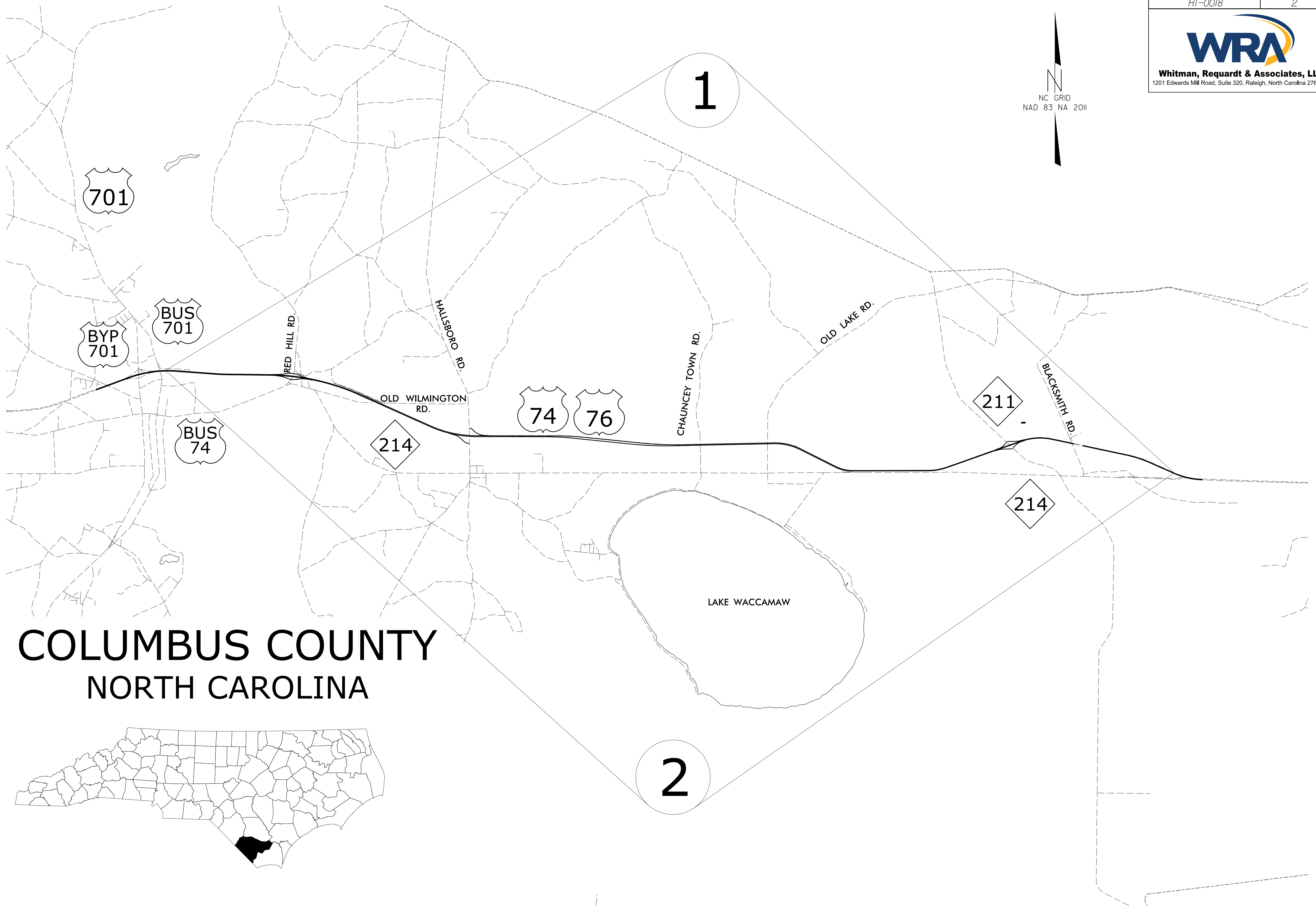
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 SIGNATURE: WILLIAM TILLITT, P.E.



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 WFTLH11



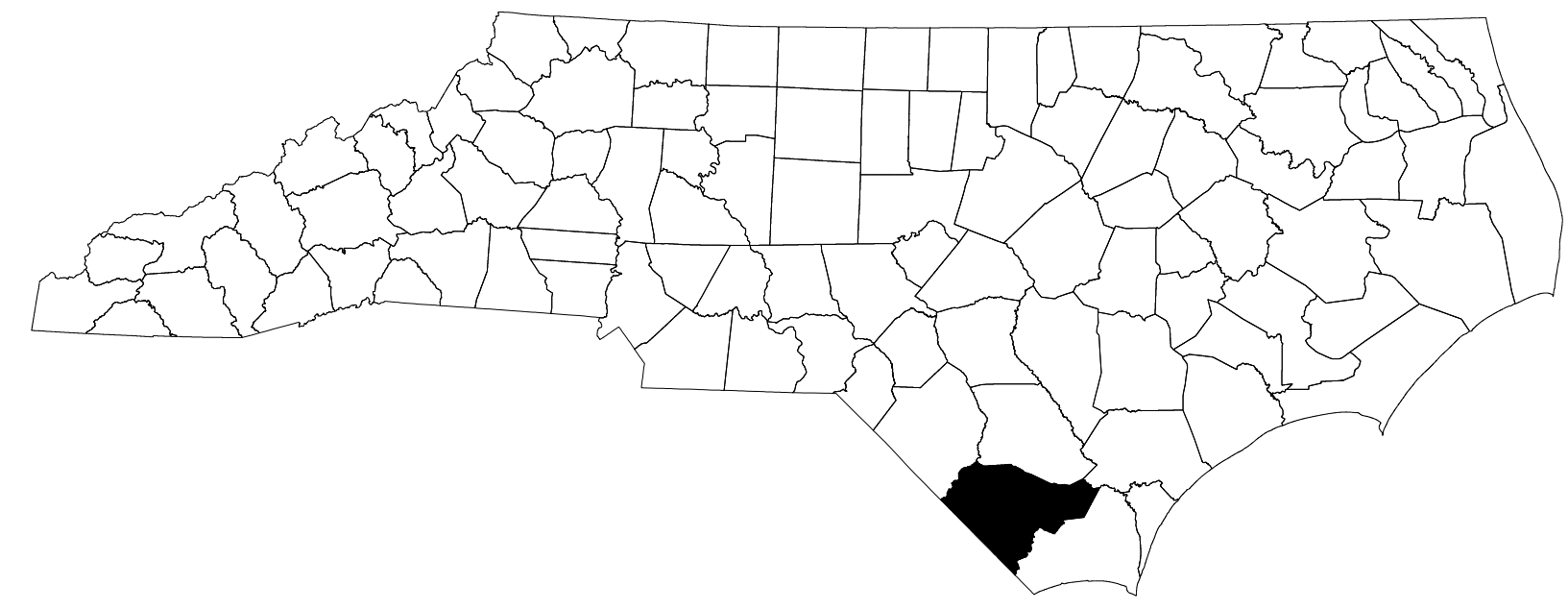
Whitman, Reardon & Associates, LLP
1201 Edwards Mill Road, Suite 320, Raleigh, North Carolina 27606



1

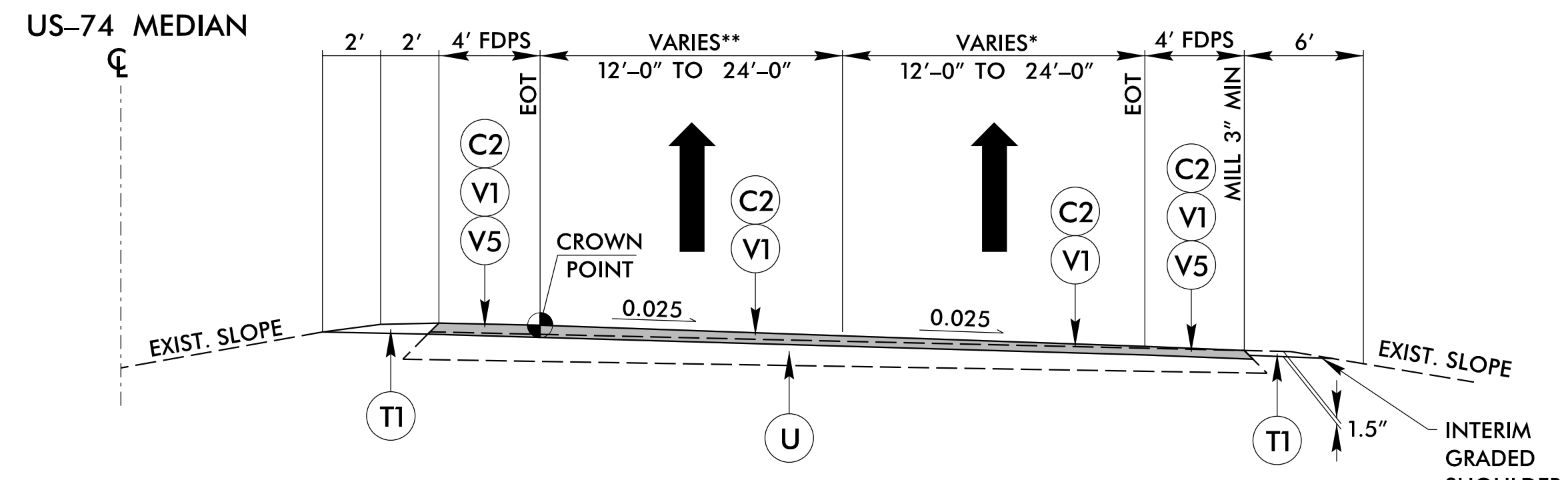
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COLUMBUS COUNTY NORTH CAROLINA



8/17/99
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NOT TO SCALE

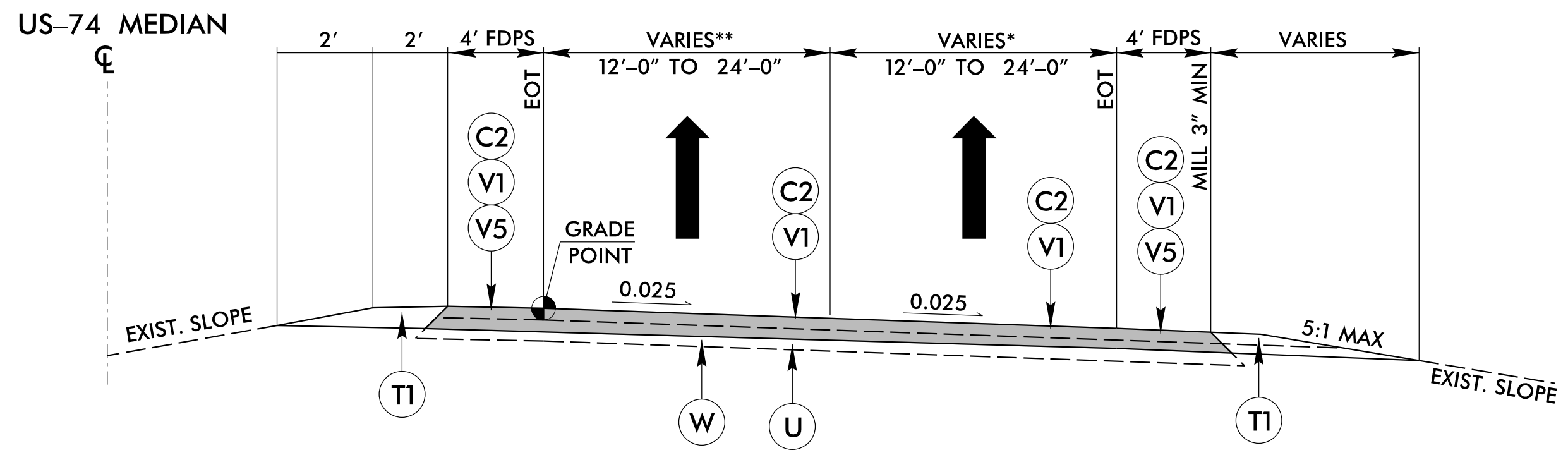


USE V1 (0" TO 3" MILLING) TO MILL A 0.025 SE GRADE

TYPICAL SECTION NO. 1

US-74 EB STA. 82+77.64 TO 170+45.16 (BEGIN BRIDGE)
US-74 EB STA. 172+85.11 (END BRIDGE) TO 209+76.20 (BEGIN BRIDGE)
US-74 EB STA. 212+00.00 (END BRIDGE) TO 604+00.00
US-74 EB STA. 715+00.00 TO 794+00.00
US-74 EB STA. 866+00.00 TO 1126+25.74

US-74 WB STA. 83+00.00 TO 170+70.34 (BEGIN BRIDGE)
US-74 WB STA. 173+07.96 (END BRIDGE) TO 210+43.19 (BEGIN BRIDGE)
US-74 WB STA. 212+63.14 (END BRIDGE) TO 604+13.65
US-74 WB STA. 715+24.83 TO 793+00.00
US-74 WB STA. 866+75.00 TO 1126+70.91
MAPS 1-2



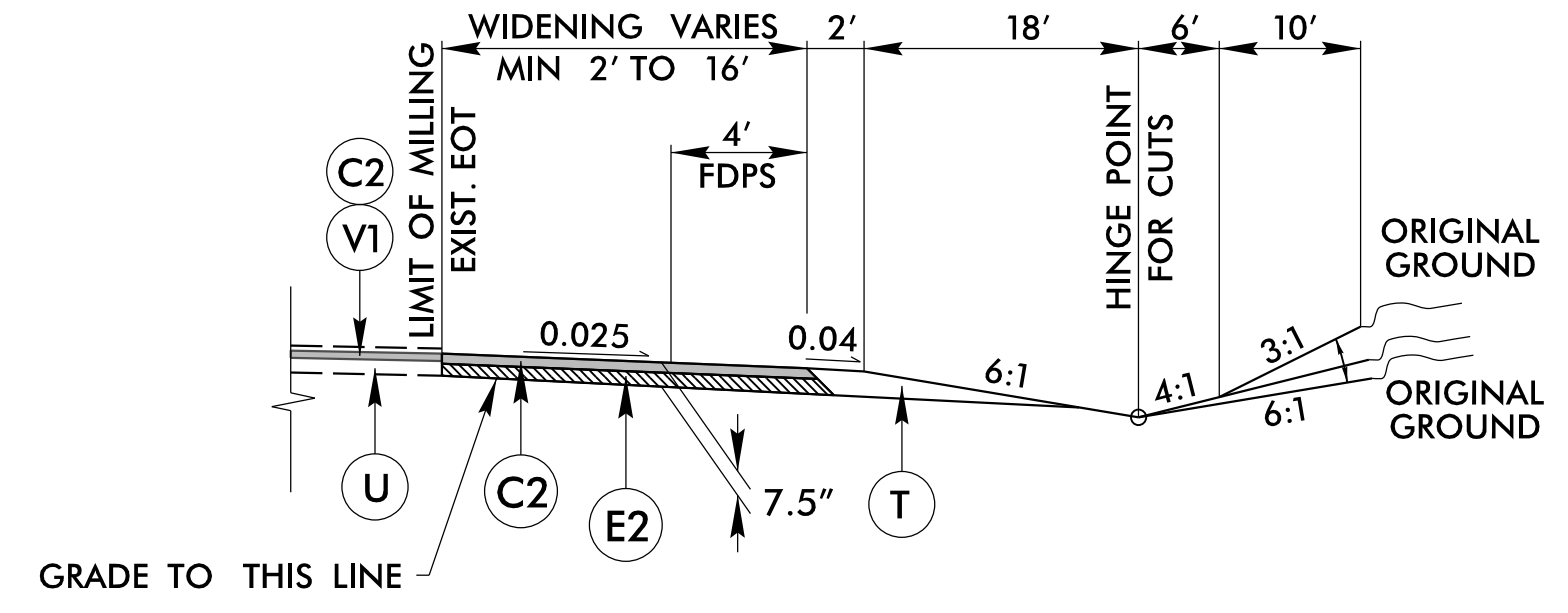
USE V1 (0" TO 3" MILLING) TO MILL A 0.025 SE GRADE

TYPICAL SECTION NO. 2

US-74 EB STA. 794+00.00 TO 798+27.59 (BEGIN BRIDGE)
US-74 EB STA. 799+41.73 (END BRIDGE) TO 803+02.70 (BEGIN BRIDGE)
US-74 EB STA. 805+18.65 (END BRIDGE) TO 841+36.58 (BEGIN BRIDGE)
US-74 EB STA. 842+75.64 (END BRIDGE) TO 866+00.00

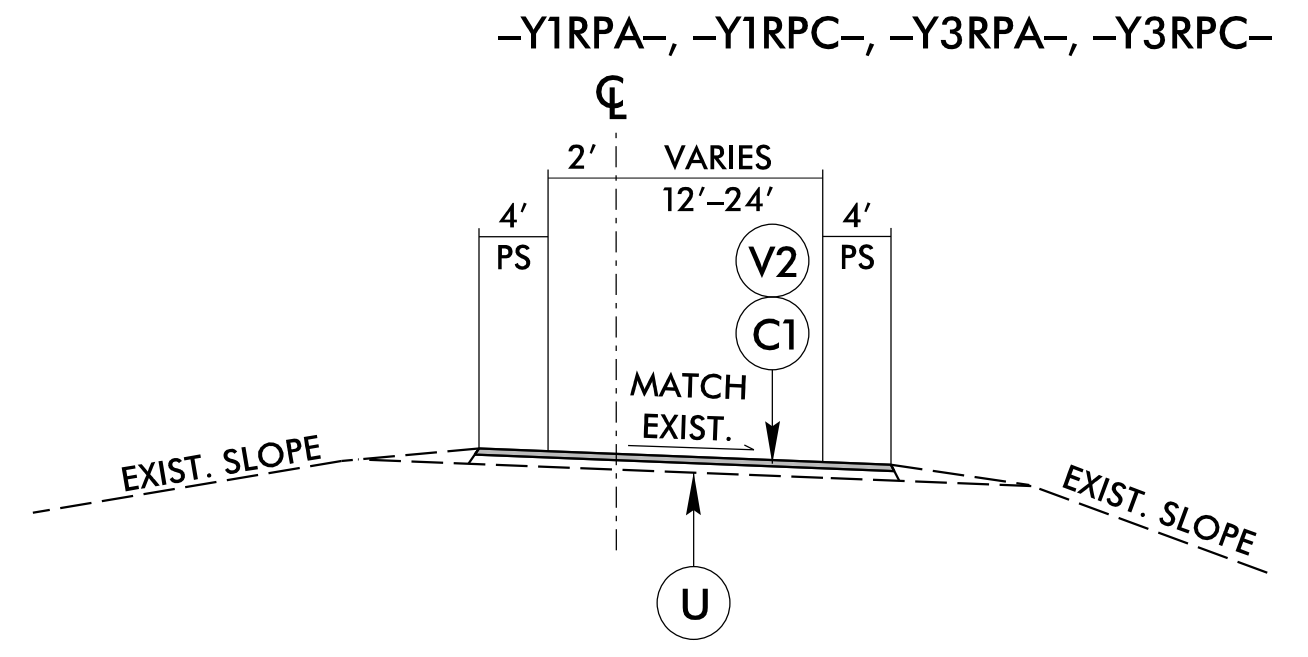
US-74 WB STA. 793+00.00 TO 798+54.59 (BEGIN BRIDGE)
US-74 WB STA. 799+61.31 (END BRIDGE) TO 803+28.91 (BEGIN BRIDGE)
US-74 WB STA. 805+48.03 (END BRIDGE) TO 841+61.45 (BEGIN BRIDGE)
US-74 WB STA. 843+01.80 (END BRIDGE) TO 868+75.00
MAPS 1-2

- NOTES:
- IF MILLING EXCEEDS 3" THEN USE WEDGING DETAIL
 - IF PROPOSED SHOULDER DEPTH EXCEEDS 4" USE SHOULDER BORROW IN LIEU OF ASB
 - PHASING SEQUENCE:
 - 3" MILLING, WEDGING, AND FIRST 1.5" LIFT FOR OUTSIDE LANE TO BE COMPLETED PRIOR TO BEGINNING THE INSIDE LANE 3" MILLING, WEDGING, AND FIRST 1.5" LIFT OF RESURFACING IN EACH PHASE
 - CONTRACTOR CANNOT ADVANCE NEXT PHASE OF LANE CLOSURE UNTIL BOTH INSIDE AND OUTSIDE LANES HAVE COMPLETED MILLING, WEDGING AND FIRST 1.5" LIFT OF RESURFACING
 - AFTER COMPLETING THE ENTIRE PROJECT 3" MILLING, WEDGING AND FIRST LIFT OF 1.5" RESURFACING, CONTRACTOR CAN COMPLETE FINAL 1.5" UNIFORM RESURFACING FOLLOWING TRAFFIC CONTROL PROJECT SPECIAL PROVISIONS
 - SHOULDERS MUST BE GRADED AFTER MILLING AT THE END OF EACH DAY OPERATION TO ELIMINATE PONDING
 - THE CONTRACTOR SHALL RECONSTRUCT INSIDE MEDIAN SHOULDERS AS NEEDED PRIOR TO REOPENING TO TRAFFIC
 - TRANSITION FROM THE 0" TO 3" MILL TO A STANDARD 3" MILL IN THE CURVES AND APPROACHING BRIDGES
 - SEE MILLING TRANSITION SUMMARY ON SHEET 3B-1
 - MATCH EXISTING CROSS SLOPE IN CURVES AND EXISTING INTERCHANGES. LOCATIONS TO BE VERIFIED BY ENGINEER IN FIELD
 - 3" MILL AND RESURFACE RAMP AT ALL INTERCHANGES UP TO THE GORE PAVING LIMITS
 - ALL PAVED AREAS OUTSIDE THE 4' PAVED SHOULDER AND GORE PAVING AREAS WILL BE MILLED 1.5" AND RESURFACED



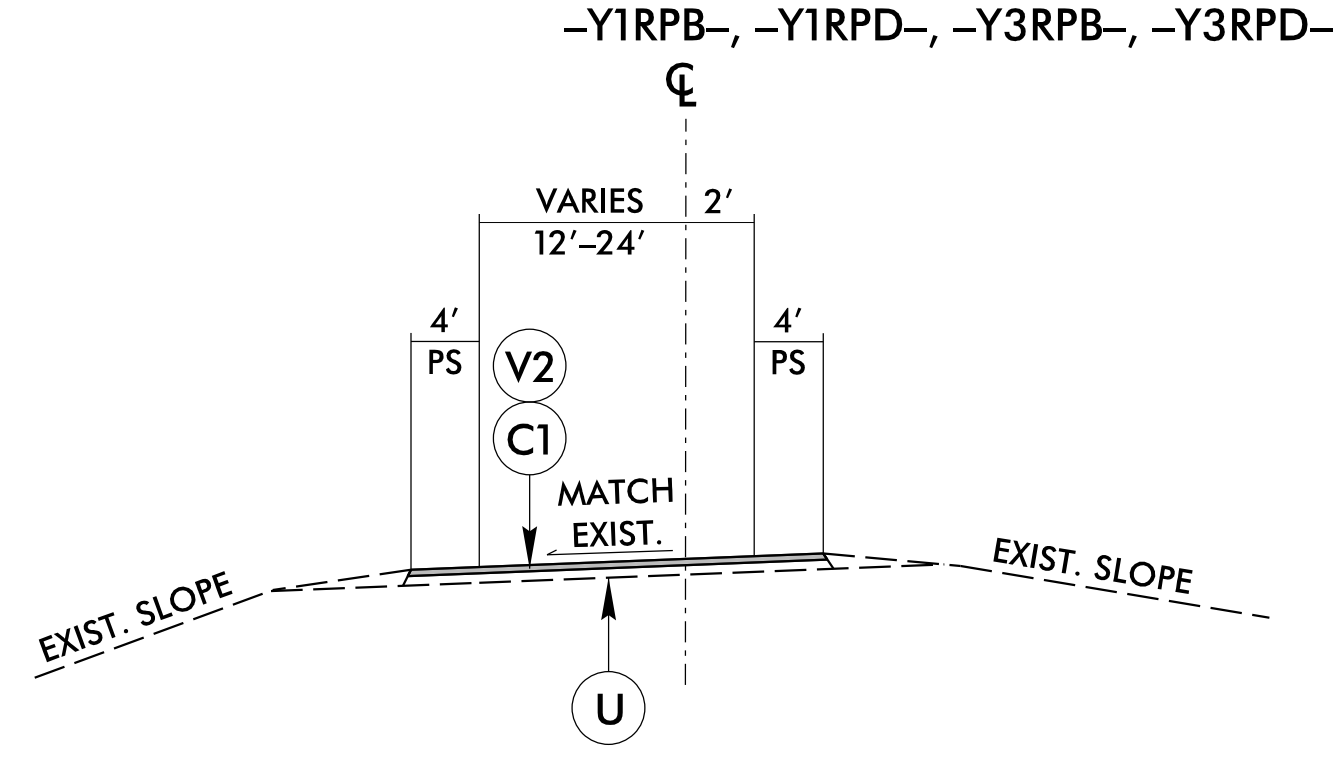
TYPICAL SECTION NO. 3

US-74 EB STA. 1011+41.49 TO 1018+58.62
US-74 WB STA. 1019+00.00 TO 1026+02.62



TYPICAL SECTION NO. 4

-Y1RPA- (RED HILL RD) STA. 14+72.00 TO 24+05.00
-Y1RPC- (RED HILL RD) STA. 15+03.00 TO 25+69.00
-Y3RPA- (GREEN SWAMP RD) STA. 15+55.00 TO 28+72.00
-Y3RPC- (GREEN SWAMP RD) STA. 15+76.00 TO 28+77.00



TYPICAL SECTION NO. 5

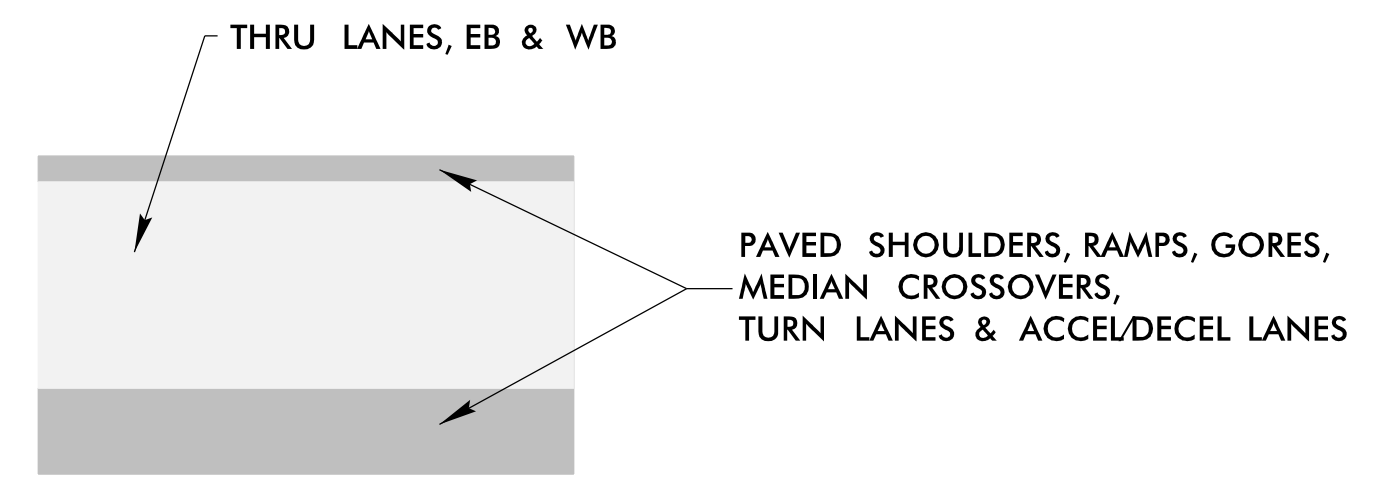
-Y1RPB- (RED HILL RD) STA. 16+79.00 TO 31+09.00
-Y1RPD- (RED HILL RD) STA. 17+84.00 TO 31+81.00
-Y3RPB- (GREEN SWAMP RD) STA. 16+77.00 TO 23+77.00
-Y3RPD- (GREEN SWAMP RD) STA. 17+23.00 TO 22+48.00

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD IN EACH OF TWO LAYERS
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2.0" IN DEPTH
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD
E2	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YARD
E3	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD
E4	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5.5" IN DEPTH OR LESS THAN 3" IN DEPTH
T	EARTH MATERIAL
T1	SHOULDER RECONSTRUCTION USING AGGREGATE SHOULDER BORROW AS DIRECTED BY ENGINEER
U	EXISTING ASPHALT PAVEMENT
V1	0" TO 3" MILLED ASPHALT PAVEMENT
V2	1.5" MILLED ASPHALT PAVEMENT
V3	3" MILLED ASPHALT PAVEMENT
V4	4" MILLED ASPHALT PAVEMENT
V5	MILLED RUMBLE STRIPS
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL THIS SHEET)

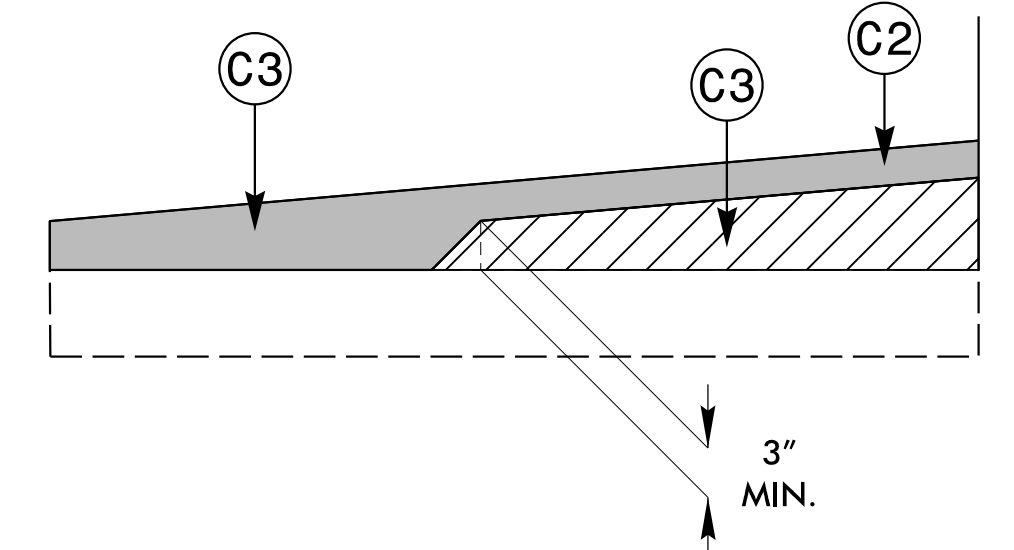
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

- NOTES:
- *PAVEMENT REHABILITATION FOR RAMP ENTRANCE AND EXIT LANES WILL INCLUDE ADDITIONAL WIDTH FOR AREAS OF GORES. (SEE PLANS FOR LIMITS)
 - **PAVEMENT REHABILITATION FOR MEDIAN CROSSOVERS AND LEFT TURN LANES WILL INCLUDE ADDITIONAL WIDTH. (SEE PLANS FOR LIMITS) LIMITS OF TYPICAL SECTIONS INDICATED ON THE PLANS ARE APPROXIMATE. TYPICAL SECTION LIMITS AND TRANSITIONS TO BE VERIFIED BY THE ENGINEER IN FIELD.
 - PAVE SHOULDERS FOR VEHICLE PULL-OFF AREA AS DIRECTED BY ENGINEER.
 - MILLED SECTIONS SHALL BE PAVED WITH WEDGING AND FIRST 1.5" RESURFACING LAYER IN THE SAME DAYS OPERATION TO NOT EXCEED MAXIMUM 2" DROP OFF.
 - LIMITS OF TYPICAL SECTIONS INDICATED ON THE PLANS ARE APPROXIMATE. TYPICAL SECTION LIMITS AND TRANSITIONS TO BE VERIFIED BY THE ENGINEER IN FIELD.
 - SURVEY EXISTING CURVE FROM APPROXIMATE STATION 93+00 TO 96+75 PROVIDE SURVEY TO NCDOT ENGINEER FOR DEPARTMENT/PEF REPRESENTATIVE TO COMPUTE RESURFACING PROFILE TO BE PROVIDED FOR YOUR USE PRIOR TO PAVING.
 - WITH RECOMMENDED RESURFACING GRADE PROVIDED, CONTRACTOR SHALL STAKE EVERY 50 FEET THROUGHOUT EACH CURVE FOR EACH LIFT.
 - ITEM SHALL BE PAID FOR UNDER CONSTRUCTION SURVEYING.
 - EXISTING CROSS-SECTIONS WERE DEVELOPED FOR WEDGING QUANTITIES FROM LIDAR ONLY AND ARE PROVIDED FOR INFORMATIONAL BIDDING PURPOSES ONLY.
 - FINAL QUANTITIES MAY VARY.



PAVEMENT REHABILITATION LIMITS LEGEND

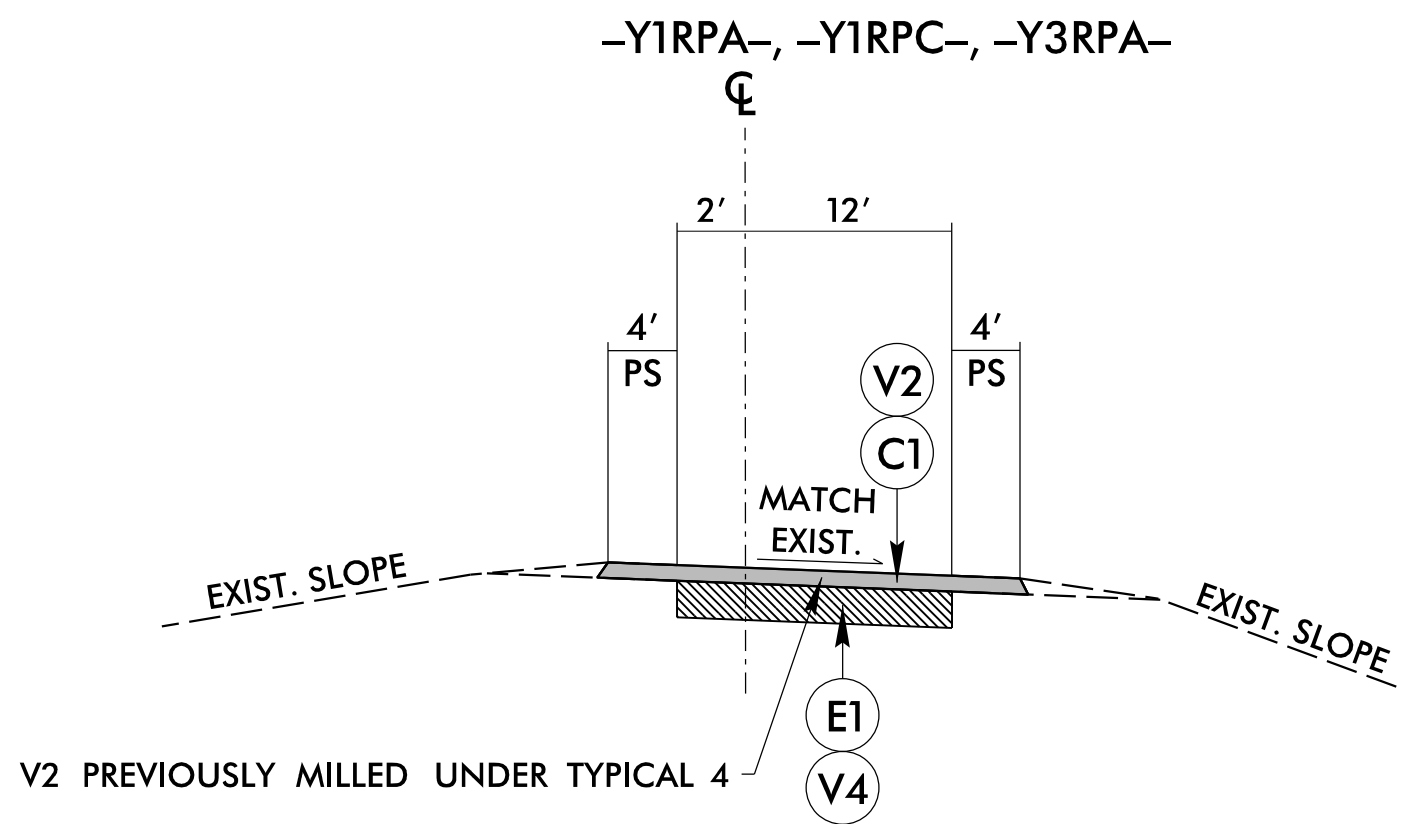
SEE PLAN SHEETS



WEDGING DETAIL

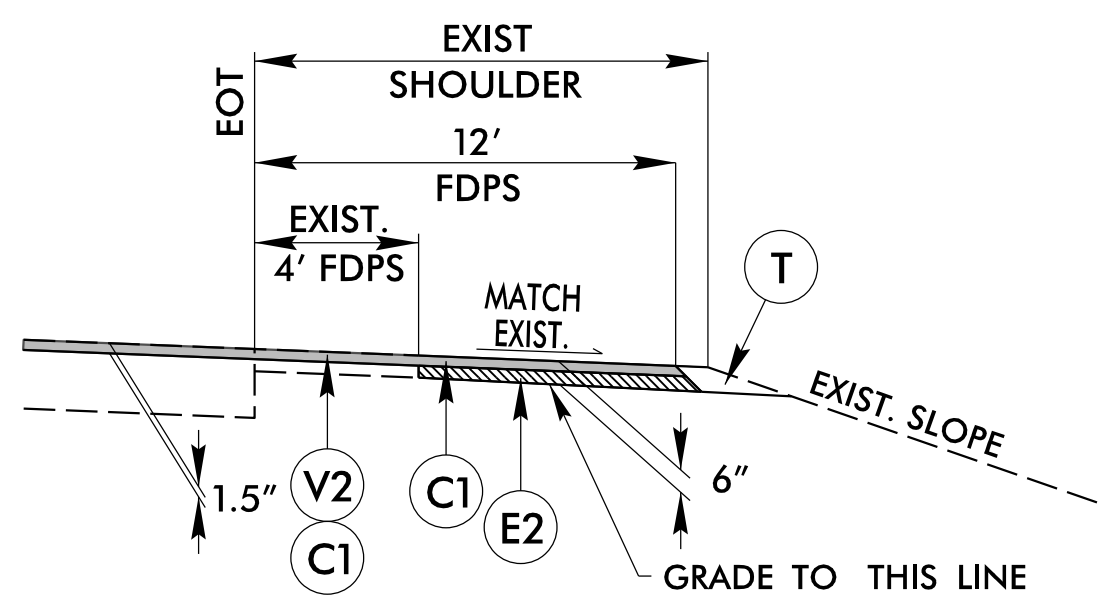
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NOT TO SCALE



PAVEMENT REPLACEMENT DETAIL
 SEE TYPICAL 4 FOR 1.5" MILL OF ENTIRE RAMP
 PRIOR TO RESURFACING MILL/FILL
 ADDITIONAL PAVEMENT REPAIR PER TYP NO. 6

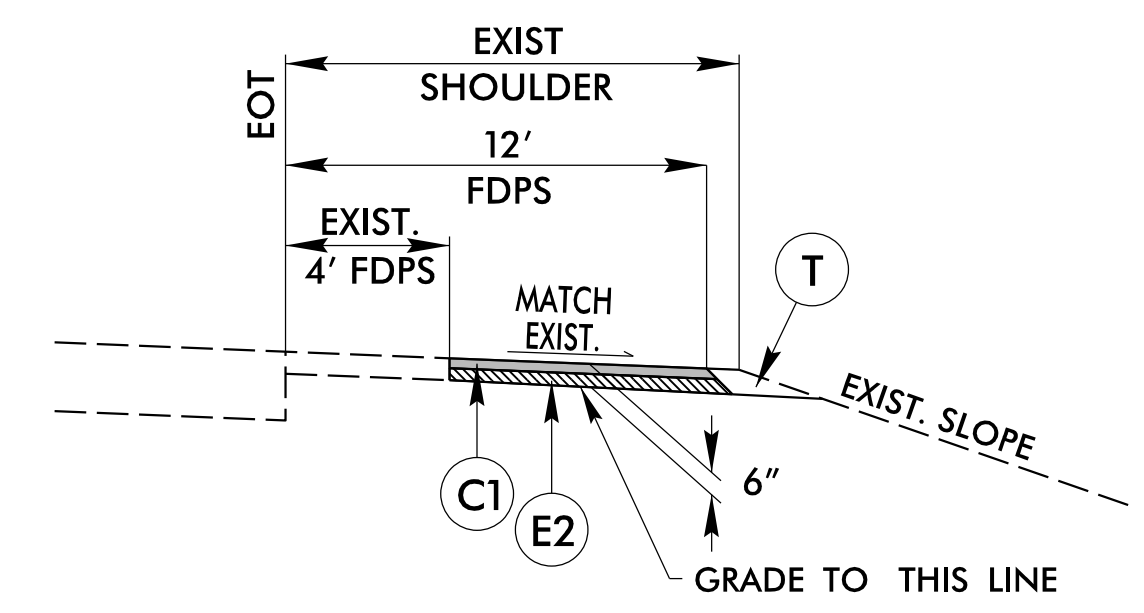
TYPICAL SECTION NO. 6
 -Y1RPA- (RED HILL RD) STA. 21+80.00 TO 24+05.00
 -Y1RPC- (RED HILL RD) STA. 23+30.00 TO 25+58.97
 -Y3RPA- (GREEN SWAMP RD) STA. 18+00.00 TO 20+25.00



SEE TYPICAL NO 4 & 5
 FOR MILLING AND RESURFACING

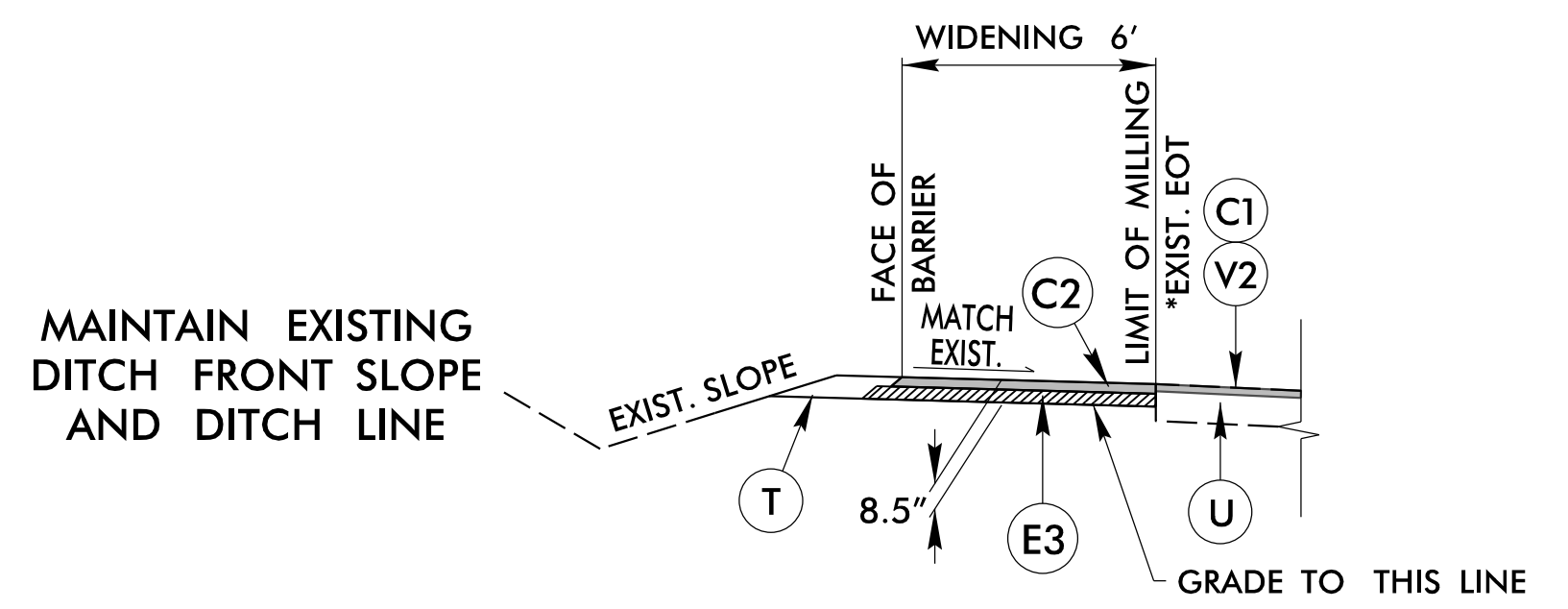
**DETAIL A
 RAMPS
 OUTSIDE SHOULDER WIDENING**

TO BE USED IN CONJUNCTION WITH T.S. 4 & 5
 -Y1RPA- (RED HILL RD) STA. 18+25.00 TO 20+75.00
 -Y1RPB- (RED HILL RD) STA. 25+75.00 TO 28+25.00
 -Y1RPC- (RED HILL RD) STA. 20+25.00 TO 22+75.00
 -Y1RPD- (RED HILL RD) STA. 28+00.00 TO 30+50.00
 -Y3RPA- (GREEN SWAMP RD) STA. 22+00.00 TO 24+50.00
 -Y3RPB- (GREEN SWAMP RD) STA. 19+50.00 TO 22+00.00
 -Y3RPC- (GREEN SWAMP RD) STA. 20+00.00 TO 22+50.00
 -Y3RPD- (GREEN SWAMP RD) STA. 19+50.00 TO 22+00.00



**DETAIL B
 RAMPS
 OUTSIDE SHOULDER WIDENING**

-Y2RPA- (HALLSBORO RD) STA. 27+50.00 TO 30+00.00
 -Y2RPC- (HALLSBORO RD) STA. 27+50.00 TO 30+00.00

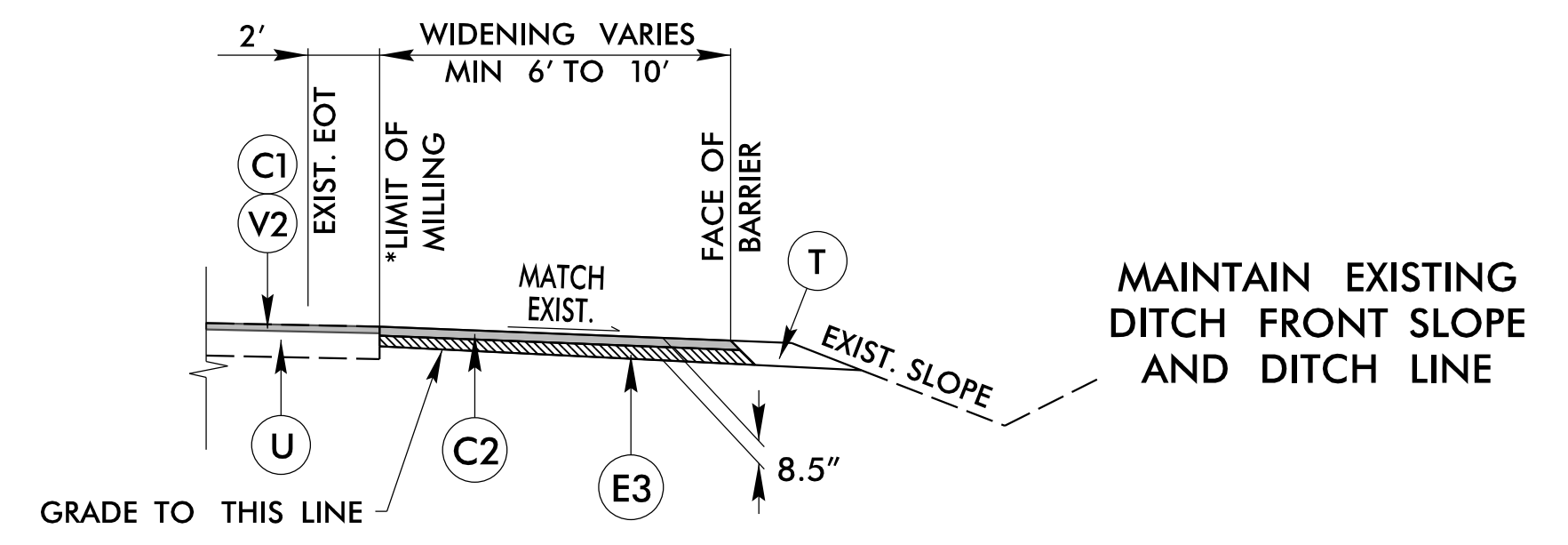


*SAW CUT AND REMOVE EXISTING 4' PAVED SHOULDER

**DETAIL C
 BRIDGE NO. 053
 INSIDE SHOULDER WIDENING**

US-74 EB STA. 169+97.16 TO 170+45.16
 US-74 EB STA. 172+85.11 TO 173+33.11

FOR DETAILS C & D
 MILL EXISTING PAVEMENT 1.5" AFTER
 PLACING FIRST LIFT OF S9.5C WIDENING
 AND COMPLETE FINAL 1.5" OF S9.5C SURFACE COURSE



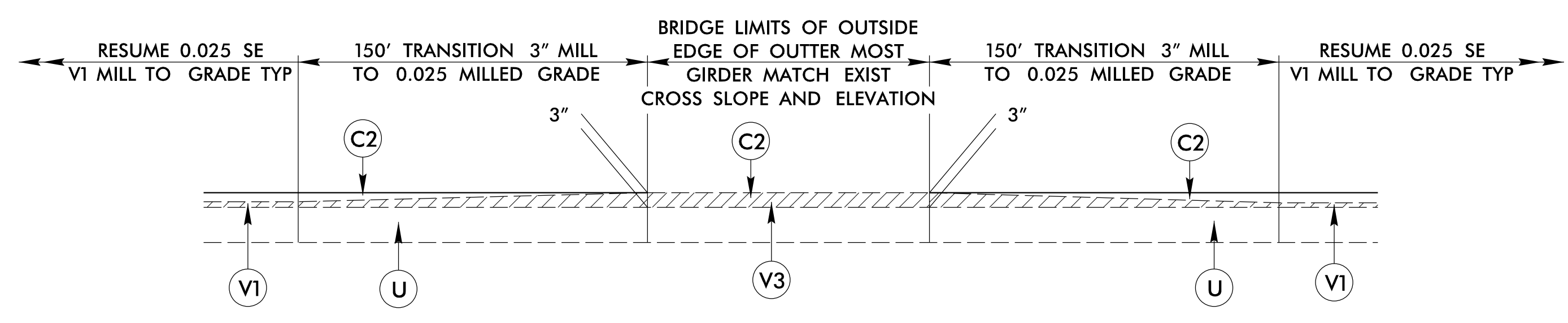
*SAW CUT AND REMOVE 2' OF EXISTING PAVED SHOULDER

**DETAIL D
 BRIDGE NO. 053
 OUTSIDE SHOULDER WIDENING**

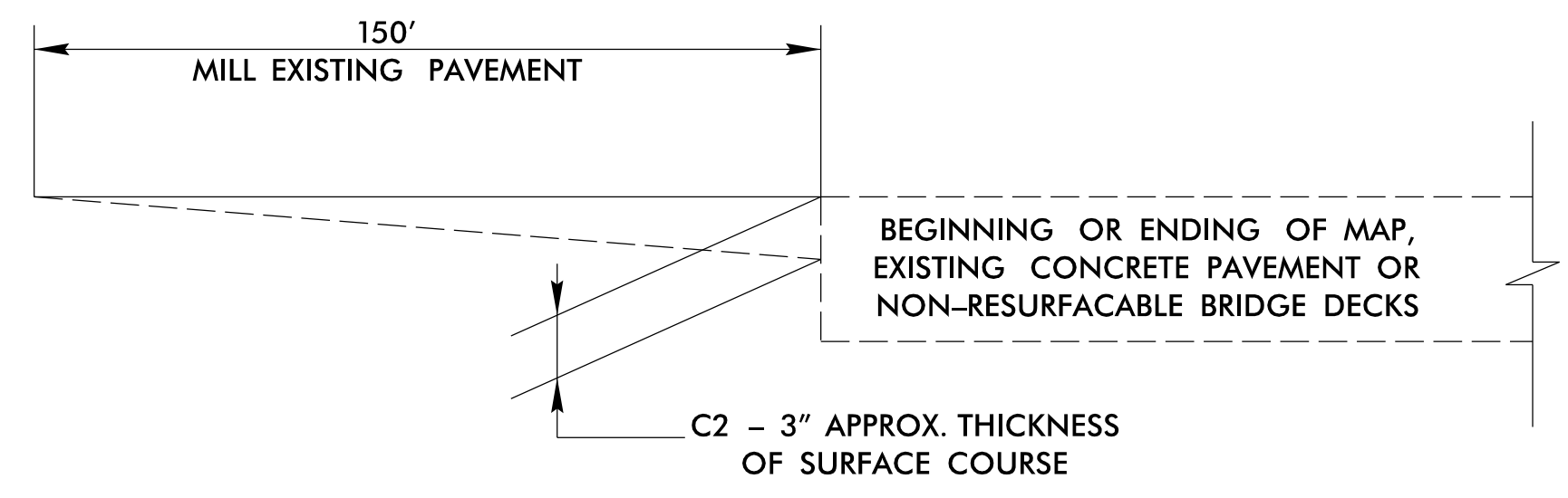
US-74 EB STA. 169+97.16 TO 170+45.16
 US-74 EB STA. 172+85.11 TO 173+33.11

PAVEMENT SCHEDULE	
C1	1.5" S9.5C
C2	3.0" S9.5C
C3	VAR. S9.5C
E1	4.0" B25.0C
E2	4.5" B25.0C
E3	5.5" B25.0C
E4	VAR. B25.0C
T	EARTH MATERIAL
T1	SHLD. RECONSTR.
U	EX. PAVEMENT
V1	VAR. MILLING
V2	1.5" MILLING
V3	3" MILLING
V4	4" MILLING
V5	MILLED RMBL STR.
W	WEDGING

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



MILLING UNDER BRIDGES



INCIDENTAL MILLING AT PAVEMENT TIE-INS

8/17/99
 10:03:39 AM
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SUMMARY OF QUANTITIES - ROADWAY

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0000100000-N	0000400000-N	0106000000-E	0156000000-E	1245000000-E	1260000000-E	1297000000-E	1297000000-E	1297000000-E	1308000000-E		
												MOBILIZATION	CONSTRUCTION SURVEYING	BORROW EXCAVATION	REMOVAL OF EXISTING ASPHALT PAVEMENT	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 1.5" DEPTH	MILLING ASPHALT PAVEMENT, 3" DEPTH	MILLING ASPHALT PAVEMENT, 4" DEPTH	MILLING ASPHALT PAVEMENT, 0" TO 3"		
											LS	LS	CY	SY	SMI	TONS	SY	SY	SY	SY			
											MI	FT											
49989.3.1	Columbus	1	US 74 WB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	NO	NO	17.66	24			715			8.095	11.994	61.227	749	271.246		
		2	US 74 EB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	NO	NO	17.66	24			660	70		8.043	11.601	61.384	350	268.776		
TOTAL FOR MAP NO. 1											17.66						8.095	11.994	61.227	749	271.246		
TOTAL FOR MAP NO. 2											17.66						8.043	11.601	61.384	350	268.776		
GRAND TOTAL											35.33			1	1	1,380	70	65.50	16.138	23.595	122.611	1,099	540.022
TOTAL SAY														1	1	1,380	70	65.50	16.140	23.595	122.615	1,100	540.025

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1330000000-E	1491000000-E	1523000000-E	1575000000-E	1840000000-E	1880000000-E		
												INCIDENTAL MILLING	ASPHALT CONC BASE COURSE, TYPE B25.0C	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	GENERIC PAVING ITEM - ASPHALT CONC SURFACE COURSE, TYPE S9.5C (WEDGING COURSE)		
											SY	TONS	TONS	TONS	LF	TONS			
											MI	FT							
49989.3.1	Columbus	1	US 74 WB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	NO	NO	17.66	24	7,527	650	58,505	3,575	184,672	1,510		
		2	US 74 EB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	NO	NO	17.66	24	7,500	615	58,132	3,550	184,630	1,560		
TOTAL FOR MAP NO. 1											17.66						1,510		
TOTAL FOR MAP NO. 2											17.66						1,560		
GRAND TOTAL											35.33			15,027	1,265	116,637	7,125	369,302	3,070
TOTAL SAY														15,030	1,265	116,640	7,125	369,310	3,070

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	3030000000-E	3150000000-N	3210000000-N	3287000000-N	3317000000-N	3360000000-E	3503000000-E	3509000000-E	3515000000-E		
												STEEL BEAM GUARDRAIL	ADDITIONAL GUARDRAIL POSTS	GUARDRAIL END UNITS, TYPE CAT-1	GUARDRAIL END UNITS, TYPE TL-3	GUARDRAIL ANCHOR UNITS, TYPE B-77	REMOVE EXISTING GUARDRAIL	WOVEN WIRE FENCE, 47" FABRIC	4" TIMBER FENCE POSTS, 7'-6" LONG	5" TIMBER FENCE POSTS, 8'-0" LONG		
											LF	EA	EA	EA	EA	LF	LF	EA	EA			
											MI	FT										
49989.3.1	Columbus	1	US 74 WB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	NO	NO	17.66	24							6,520	429	69		
		2	US 74 EB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	NO	NO	17.66	24							1,120	74	12		
TOTAL FOR MAP NO. 1											17.66							1,120	74	12		
TOTAL FOR MAP NO. 2											17.66											
GRAND TOTAL											35.33							7,640	503	81		
TOTAL SAY														2,837.5	25	6	16	3	2,300	7,640	503	81

SUMMARY OF QUANTITIES - DRAINAGE

PROJECT NO.	COUNTY	DRAINAGE ITEM NO.	PLAN SHEET	ROUTE	Hydraulics Recommendation	Structure depth	010600000-E	021800000-E	032100000-E	036400000-E	037200000-E	122000000-E	226300000-E	226400000-E	227500000-E	228400000-N	234500000-N	247200000-N	600000000-E	601200000-E	602900000-E	604200000-E	607101000-E	608400000-E	611700000-N	611750000-N	
							BORROW EXCAVATION	FOUNDATION CONDITIONING MATERIAL MINOR STRUCTURES	FOUNDATION CONDITIONING GEOTEXTILE	15" RC PIPE CULVERTS, CLASS III	18" RC PIPE CULVERTS, CLASS III	INCIDENTAL STONE BASE	PIPE COLLARS	PIPE PLUGS	FLOWABLE FILL	MASONRY DRAINAGE STRUCTURES	FRAME WITH TWO GRATES, STD 840.22	GENERIC DRAINAGE ITEM - CONCRETE APRON FOR DROP INLET	TEMPORARY SILT FENCE	SEDIMENT CONTROL STONE	SAFETY FENCE	1/4" HARDWARE CLOTH	WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL	CONCRETE WASHOUT STRUCTURE	
							CY	TON	SY	LF	LF	TON	CY	CY	CY	EA	EA	EA	LF	TON	LF	LF	LF	ACR	EA	EA	
		1	5	180+90 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		2	5	188+90 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		3	6	196+90 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		4	6	199+15 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		5	6	222+40 WBL MEDIAN	INSTALL CONCRETE APRON	N/A																					
		6	6	227+35 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		7	7	236+00 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		8	7	243+15 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		9	7	251+15 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		10	7	259+15 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		11	7	267+15 WBL MEDIAN	REPLACE CONCRETE APRON	N/A																					
		12	7	275+15 WBL MEDIAN	REPLACE 2 WIDE SLOT SAG GRATES (EXISTING GRATES MISSING). REPLACE CONCRETE APRON	N/A										1	2	1									
		13	14	729+55 WBL LT	REMOVE AND REPLACE 8" OF 18" RCP WITH CONCRETE COLLAR ON EACH SIDE OF STRUCTURE. BACKFILL TO EXISTING DITCH SLOPES. REPLACE CONCRETE APRON	N/A	0.5	0.8	2.7		8			0.893				1									
		14	15	815+25 WBL MEDIAN	PLUG & FILL EXISTING 24" CMP WITH FLOWABLE FILL. CONTAIN GROUT OUTSIDE OF WETLANDS. CONTRACTOR'S MEANS AND METHODS SHOULD ASSURE PIPES ARE FLOWABLE FILLED COMPLETELY	N/A								0.232		17.8											
		15	15	825+25 WBL MEDIAN	PLUG & FILL EXISTING 24" CMP WITH FLOWABLE FILL. CONTAIN GROUT OUTSIDE OF WETLANDS. CONTRACTOR'S MEANS AND METHODS SHOULD ASSURE PIPES ARE FLOWABLE FILLED COMPLETELY	N/A								0.232		17.8											
		16	15	856+25 WBL MEDIAN	PLUG & FILL EXISTING 24" CMP WITH FLOWABLE FILL. CONTAIN GROUT OUTSIDE OF WETLANDS. CONTRACTOR'S MEANS AND METHODS SHOULD ASSURE PIPES ARE FLOWABLE FILLED COMPLETELY	N/A								0.232		17.8											
		17	16	871+25 WBL MEDIAN	PLUG & FILL EXISTING 24" CMP WITH FLOWABLE FILL. CONTAIN GROUT OUTSIDE OF WETLANDS. CONTRACTOR'S MEANS AND METHODS SHOULD ASSURE PIPES ARE FLOWABLE FILLED COMPLETELY	N/A								0.232		17.8											
		18	16	874+40 WBL MEDIAN	REMOVE AND REPLACE 2G. REMOVE AND REPLACE 4" OF 15" RCP WITH CONCRETE COLLAR. REPLACE CONCRETE APRON	N/A	0.5	0.4	1.3	4				0.399			1	1									1
		19	17	930+00 WBL MEDIAN	REMOVE AND REPLACE 8" OF 15" RCP WITH CONCRETE COLLAR ON EACH SIDE OF STRUCTURE. BACKFILL TO EXISTING DITCH SLOPES. REPLACE CONCRETE APRON	N/A	0.5	0.8	2.7	8				0.798				1									
		20	17	964+55 WBL MEDIAN	REMOVE AND REPLACE 8" OF 15" RCP WITH CONCRETE COLLAR ON EACH SIDE OF STRUCTURE. BACKFILL TO EXISTING DITCH SLOPES. REPLACE CONCRETE APRON	N/A	0.5	0.8	2.7	8				0.798				1									
		21	18	984+00 WBL MEDIAN	REPLACE 1 WIDE SLOT SAG GRATE (EXISTING GRATE MISSING)	N/A											1										
		22	18	1001+65 WBL MEDIAN	REPLACE 1 WIDE SLOT SAG GRATE (EXISTING GRATE MISSING)	N/A											1										
		23	18	1021+80 WBL MEDIAN	REMOVE AND REPLACE 1 WIDE SLOT SAG GRATE (EXISTING GRATE BROKEN)	N/A											1										
		24	19	1063+65 WBL MEDIAN	REMOVE AND REPLACE 2G. REMOVE AND REPLACE 4" OF 15" RCP WITH CONCRETE COLLAR	N/A	0.5	0.4	1.3	4				0.399			1	1									1
		6		-174WBL- 215+55 TO 224+96	REMOVE & REPLACE EXIST C/A FENCE	N/A																					0.23
		7-8		-174WBL- 253+27 TO 308+36	REMOVE & REPLACE EXIST C/A FENCE	N/A																					1.27
		14-15		-174EBL- 781+33 TO 792+01	REMOVE & REPLACE EXIST C/A FENCE	N/A																					0.26
					TOTAL		2.5	3.4	10.7	24	8		3.287	0.928	71.2	3	7	16		140			1,120	1,120	4.55		2
					SAY		5	5	20	24	8	250	3.5	1.00	71.3	3	7	16	350	140	250	1,120	1,120	5	6	2	

SIGNING QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	4048000000-E	4054000000-E	4060000000-E	4072000000-E	4078000000-E	4096000000-N	4102000000-N	4110000000-N	4110000000-N	4114000000-N	4152000000-N	4155000000-N	
									REINFORCED CONCRETE SIGN FOUNDATIONS	PLAIN CONCRETE SIGN FOUNDATIONS	SUPPORTS, BREAKAWAY STEEL BEAM	SUPPORTS, 3 LB STEEL U CHANNEL	SUPPORTS, 2-LB STEEL U-CHANNEL	SIGN ERECTION TYPE D	SIGN ERECTION TYPE E	SIGN ERECTION, TYPE A (GROUND MOUNTED)	SIGN ERECTION, TYPE B (GROUND MOUNTED)	SIGN ERECTION, MILEMARKERS	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	
									MI	CY	CY	LB	LF	EA	EA	EA	EA	EA	EA	EA	
49989.3.1	Columbus	1	US 74 WB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	17.66													
		2	US 74 EB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	17.66													
GRAND TOTAL																					
									SAY												
										5.00	1.00	5,844	530	5	6	17	10	3	5	10	19

WORK ZONE TRAFFIC CONTROL QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	4423000000-N	4424000000-N	4434000000-N	4457000000-N	4510000000-N	4600000000-N	
									WORK ZONE DIGITAL SPEED LIMIT SIGNS	WORK ZONE PRESENCE LIGHTING	SEQUENTIAL FLASHING WARNING LIGHTS	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	GENERIC TRAFFIC CONTROL ITEM - CONNECTED LANE CLOSURE SYSTEM	
									EA	EA	EA	LS	HR	EA	
49989.3.1	Columbus	1	US 74 WB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	17.66							
		2	US 74 EB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	17.66							
GRAND TOTAL															
									TOTAL	10	28	24	1	5,817	4
									SAY	10	28	24	1	5,817	4

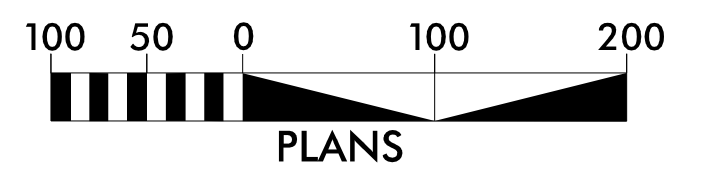
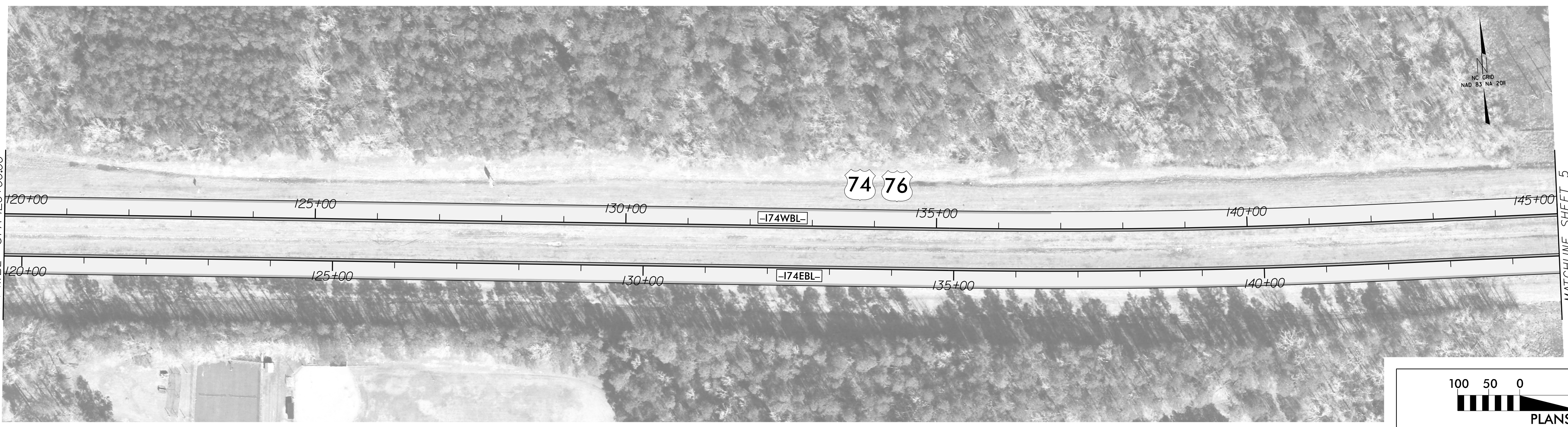
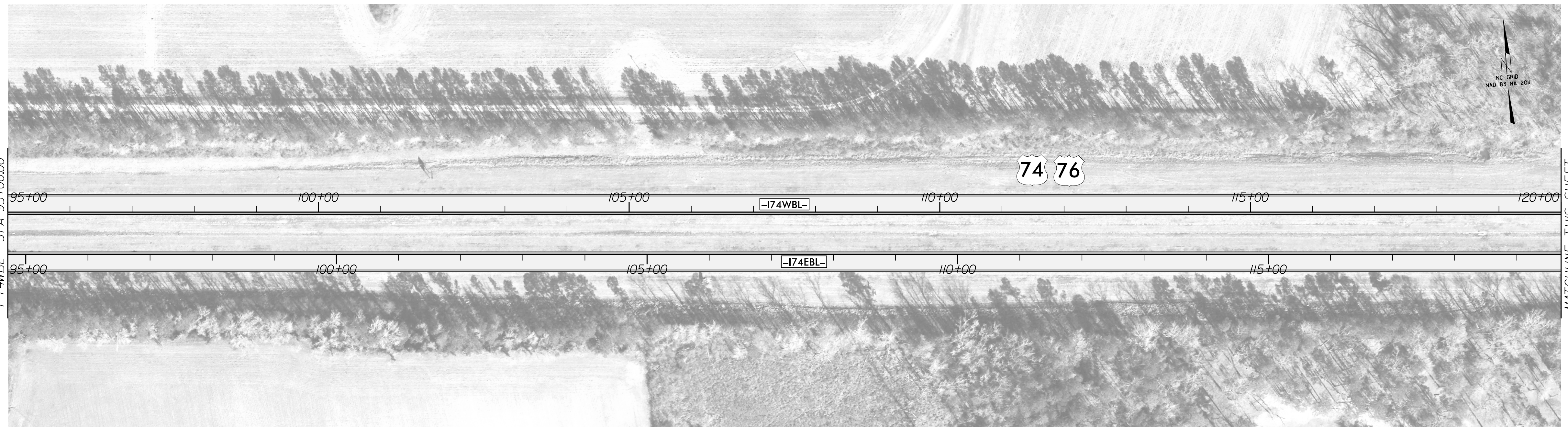
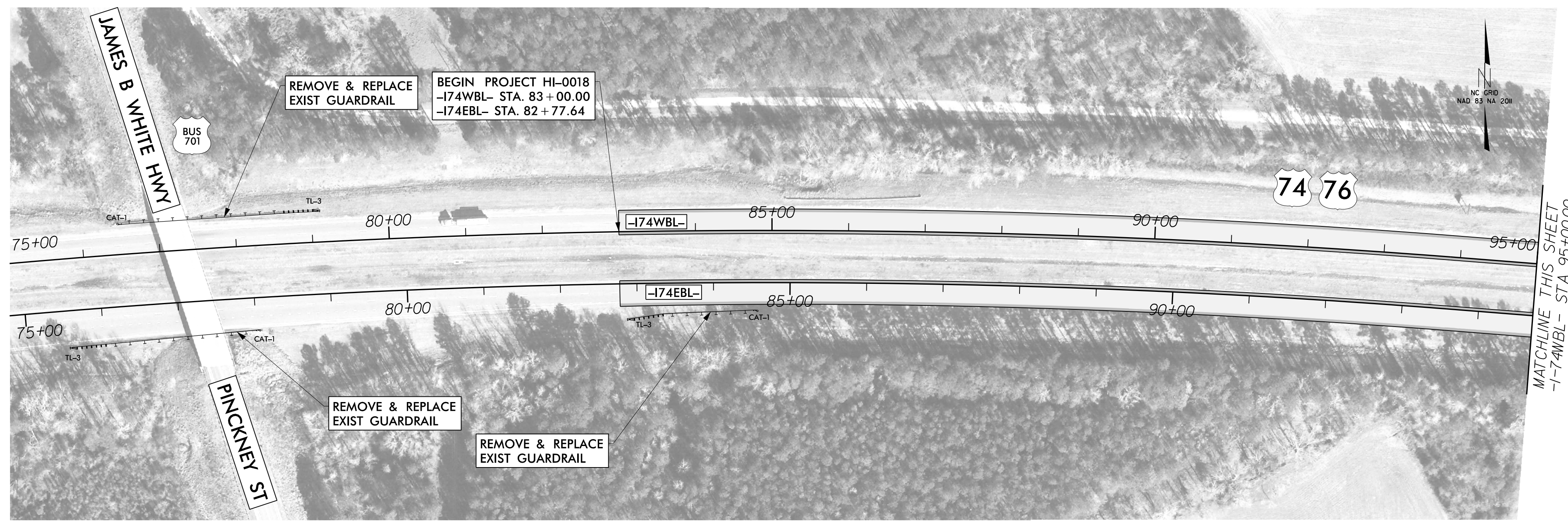
PROJECT NO.	SHEET NO.
HI-0018	3B-5

THERMOPLASTIC AND PAINT QUANTITIES

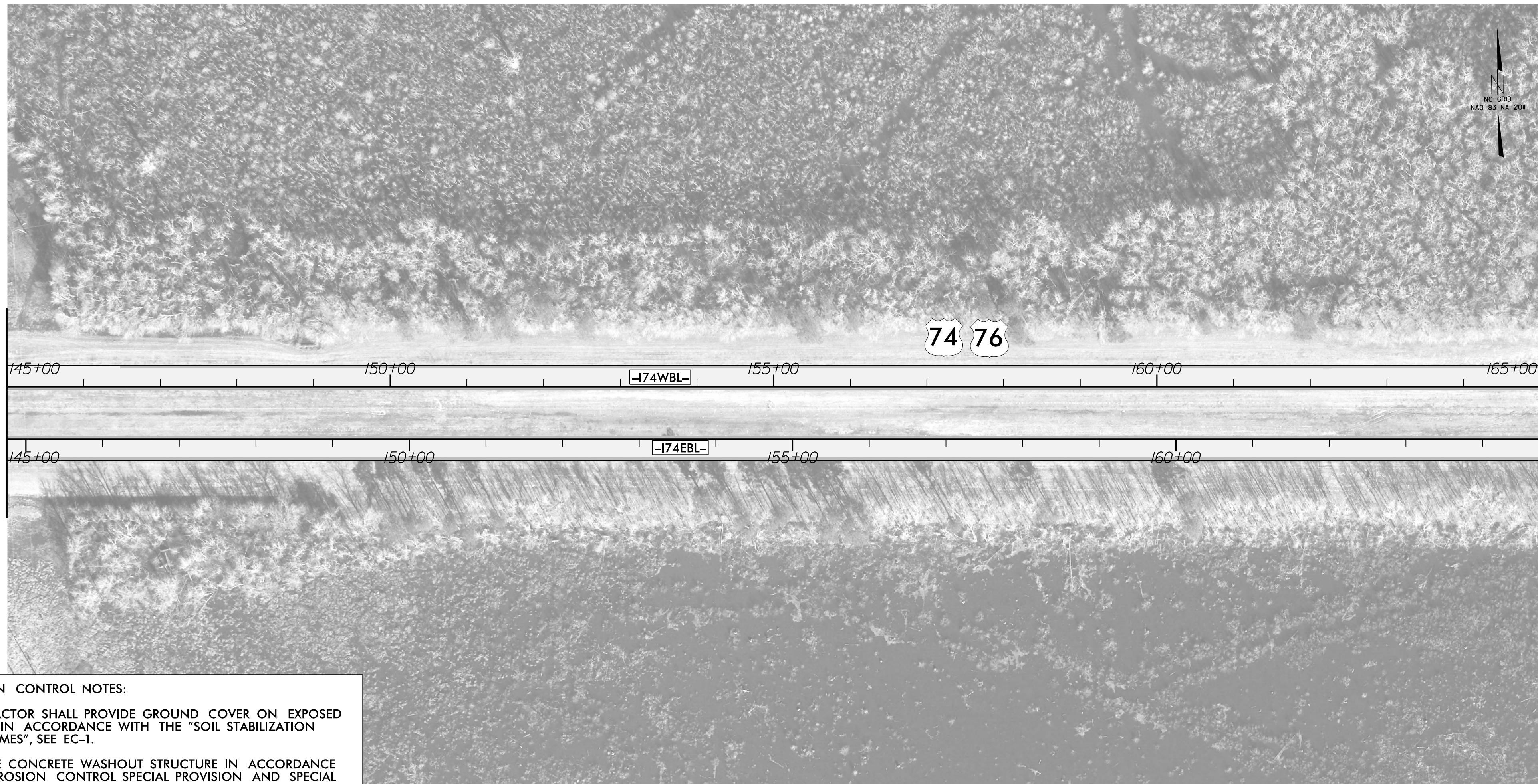
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4688000000-E		4700000000-E	4725000000-E				4815000000-E	
										THERMO PAVEMENT MARKING LINES (6", 90 MILS), WHITE	THERMO PAVEMENT MARKING LINES (6", 90 MILS), YELLOW	THERMO PAVEMENT MARKING LINES (12", 90 MILS), WHITE	THERMO PAVEMENT MARKING SYMBOL (90 MILS), MERGE ARROW	THERMO PAVEMENT MARKING SYMBOL (90 MILS), LEFT ARROW	THERMO PAVEMENT MARKING SYMBOL (90 MILS), THRU ARROW	THERMO PAVEMENT MARKING SYMBOL (90 MILS), U-TURN ARROW	PAINT PAVEMENT MARKING LINES (6"), WHITE	PAINT PAVEMENT MARKING LINES (6"), YELLOW
								MI	FT	LF	LF	LF	EA	EA	EA	EA	LF	LF
49989.3.1	Columbus	1	US 74 WB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	17.66	24									
		2	US 74 EB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	17.66	24									
GRAND TOTAL				SAY						230,828	184,663	11,200	18	2	6	6	230,828	184,663
										415,491		32				415,491		

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4825000000-E	4845000000-N				4846000000-E		4895000000-N	4900000000-N
										PAINT PAVEMENT MARKING LINES (12"), WHITE	PAINT PAVEMENT MARKING SYMBOL, MERGE ARROW	PAINT PAVEMENT MARKING SYMBOL, LEFT ARROW	PAINT PAVEMENT MARKING SYMBOL, THRU ARROW	PAINT PAVEMENT MARKING SYMBOL, U-TURN ARROW	POLYUREA PAVEMENT MARKING LINES (6", 20 MILS), WHITE	POLYUREA PAVEMENT MARKING LINES (6", 20 MILS), YELLOW	GENERIC PAVEMENT MARKING ITEM - POLYCARBONATE H-SHAPED MARKERS	PERMANENT RAISED PAVEMENT MARKERS
								MI	FT	LF	EA	EA	EA	EA	EA	EA	EA	EA
49989.3.1	Columbus	1	US 74 WB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	17.66	24									
		2	US 74 EB	FROM EAST OF US 701 BUSINESS TO WEST OF NC 214	1	2	2WD	17.66	24									
GRAND TOTAL				SAY						11,200	18	2	6	6	2,153	1,722	2,306	24
										11,200	32				3,875		2,306	24

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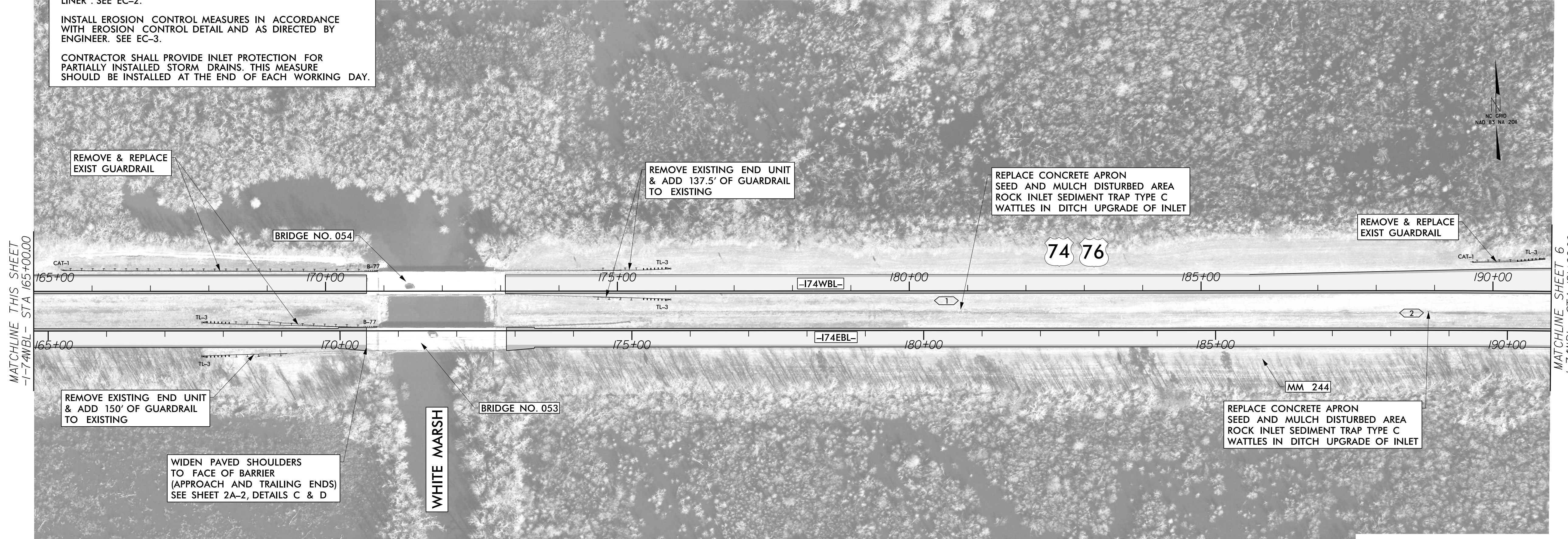
EROSION CONTROL NOTES:

CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES IN ACCORDANCE WITH THE "SOIL STABILIZATION TIMEFRAMES", SEE EC-1.

PROVIDE CONCRETE WASHOUT STRUCTURE IN ACCORDANCE WITH EROSION CONTROL SPECIAL PROVISION AND SPECIAL DETAIL "ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER". SEE EC-2.

INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH EROSION CONTROL DETAIL AND AS DIRECTED BY ENGINEER. SEE EC-3.

CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.



REMOVE & REPLACE EXIST GUARDRAIL

REMOVE EXISTING END UNIT & ADD 137.5' OF GUARDRAIL TO EXISTING

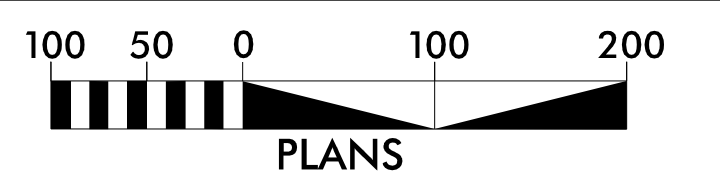
REPLACE CONCRETE APRON SEED AND MULCH DISTURBED AREA ROCK INLET SEDIMENT TRAP TYPE C WATTLES IN DITCH UPGRADE OF INLET

REMOVE & REPLACE EXIST GUARDRAIL

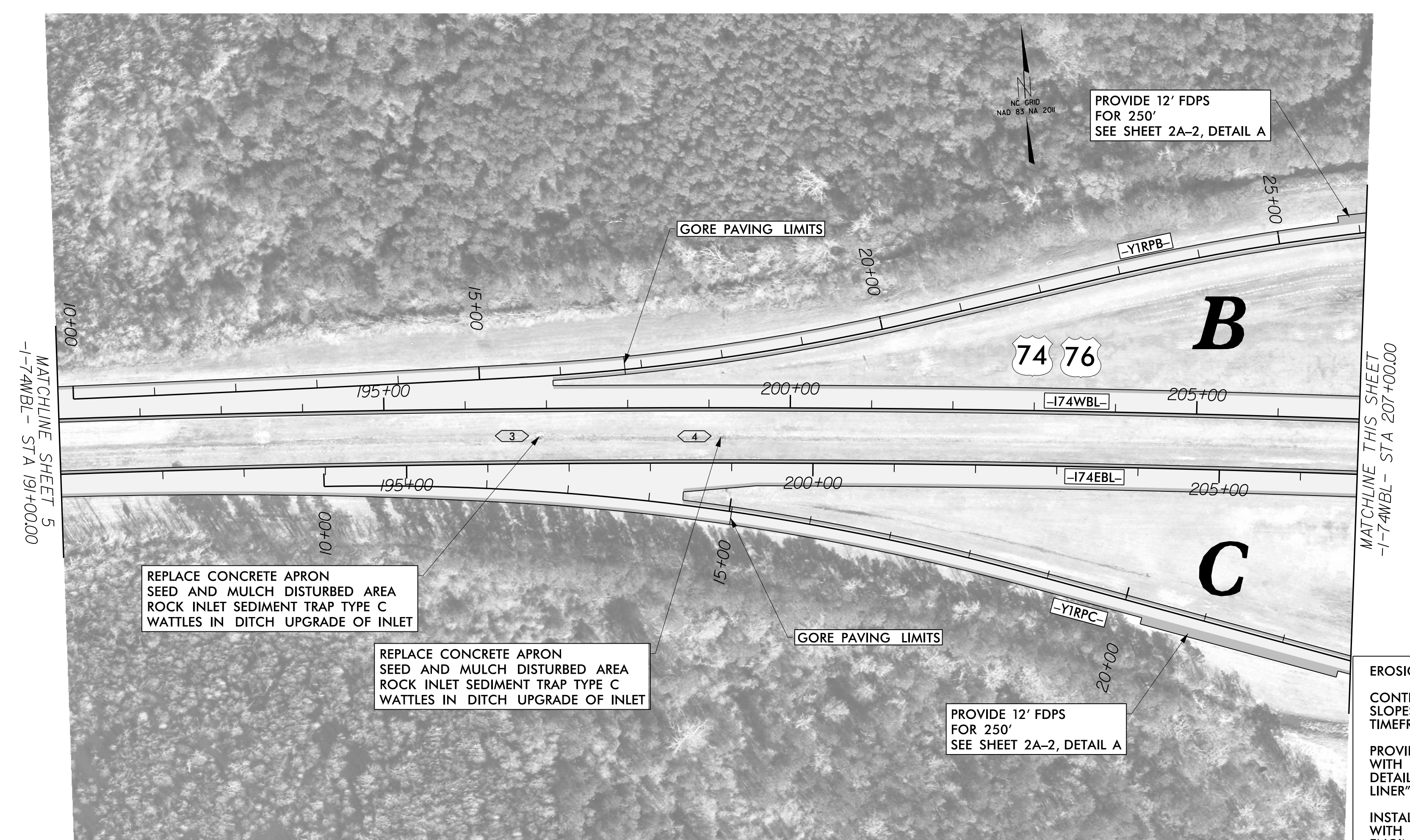
REMOVE EXISTING END UNIT & ADD 150' OF GUARDRAIL TO EXISTING

WIDEN PAVED SHOULDERS TO FACE OF BARRIER (APPROACH AND TRAILING ENDS) SEE SHEET 2A-2, DETAILS C & D

REPLACE CONCRETE APRON SEED AND MULCH DISTURBED AREA ROCK INLET SEDIMENT TRAP TYPE C WATTLES IN DITCH UPGRADE OF INLET



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REPLACE CONCRETE APRON
SEED AND MULCH DISTURBED AREA
ROCK INLET SEDIMENT TRAP TYPE C
WATTLES IN DITCH UPGRADE OF INLET

REPLACE CONCRETE APRON
SEED AND MULCH DISTURBED AREA
ROCK INLET SEDIMENT TRAP TYPE C
WATTLES IN DITCH UPGRADE OF INLET

PROVIDE 12' FDPS
FOR 250'
SEE SHEET 2A-2, DETAIL A

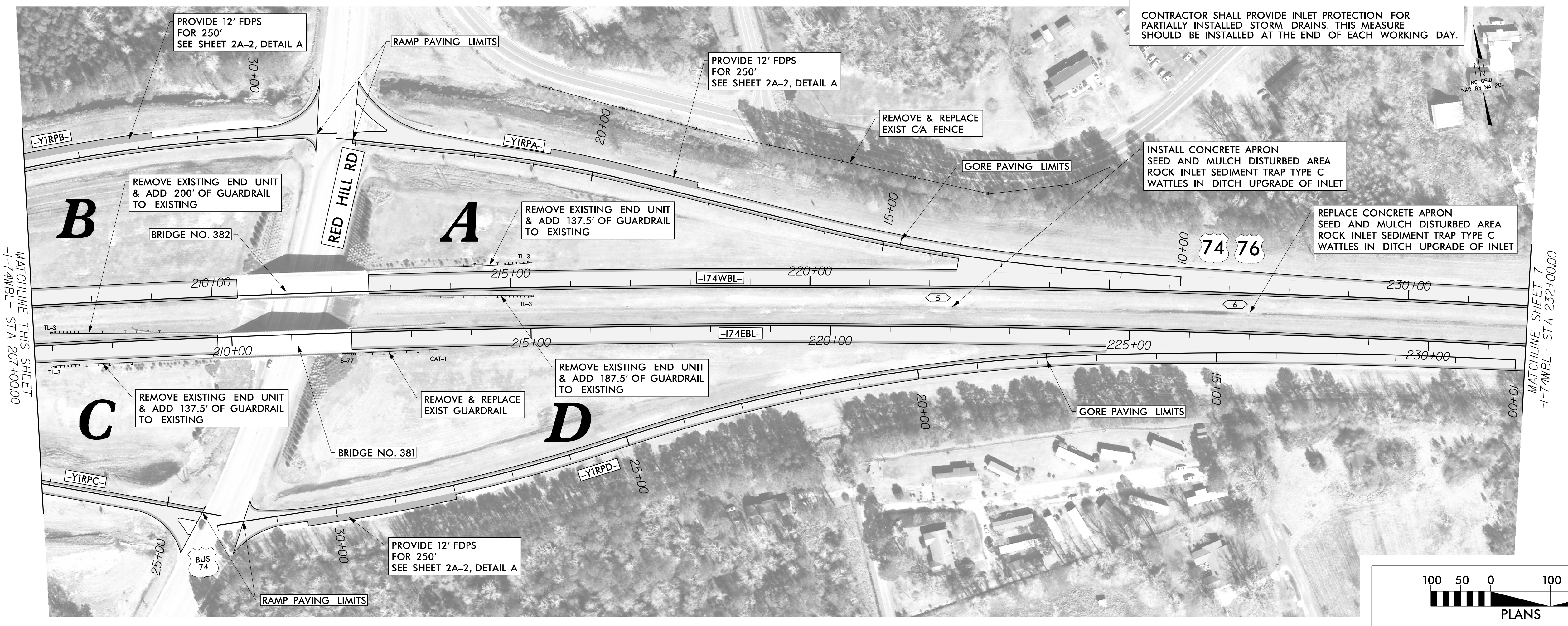
EROSION CONTROL NOTES:

CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES IN ACCORDANCE WITH THE "SOIL STABILIZATION TIMEFRAMES", SEE EC-1.

PROVIDE CONCRETE WASHOUT STRUCTURE IN ACCORDANCE WITH EROSION CONTROL SPECIAL PROVISION AND SPECIAL DETAIL "ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER". SEE EC-2.

INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH EROSION CONTROL DETAIL AND AS DIRECTED BY ENGINEER. SEE EC-3.

CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.



REMOVE EXISTING END UNIT & ADD 200' OF GUARDRAIL TO EXISTING

REMOVE EXISTING END UNIT & ADD 137.5' OF GUARDRAIL TO EXISTING

REMOVE EXISTING END UNIT & ADD 137.5' OF GUARDRAIL TO EXISTING

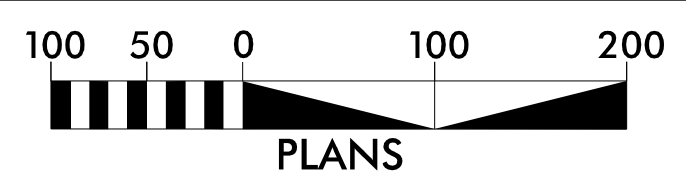
REMOVE EXISTING END UNIT & ADD 187.5' OF GUARDRAIL TO EXISTING

REMOVE & REPLACE EXIST GUARDRAIL

PROVIDE 12' FDPS
FOR 250'
SEE SHEET 2A-2, DETAIL A

INSTALL CONCRETE APRON
SEED AND MULCH DISTURBED AREA
ROCK INLET SEDIMENT TRAP TYPE C
WATTLES IN DITCH UPGRADE OF INLET

REPLACE CONCRETE APRON
SEED AND MULCH DISTURBED AREA
ROCK INLET SEDIMENT TRAP TYPE C
WATTLES IN DITCH UPGRADE OF INLET



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