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09/08/2019

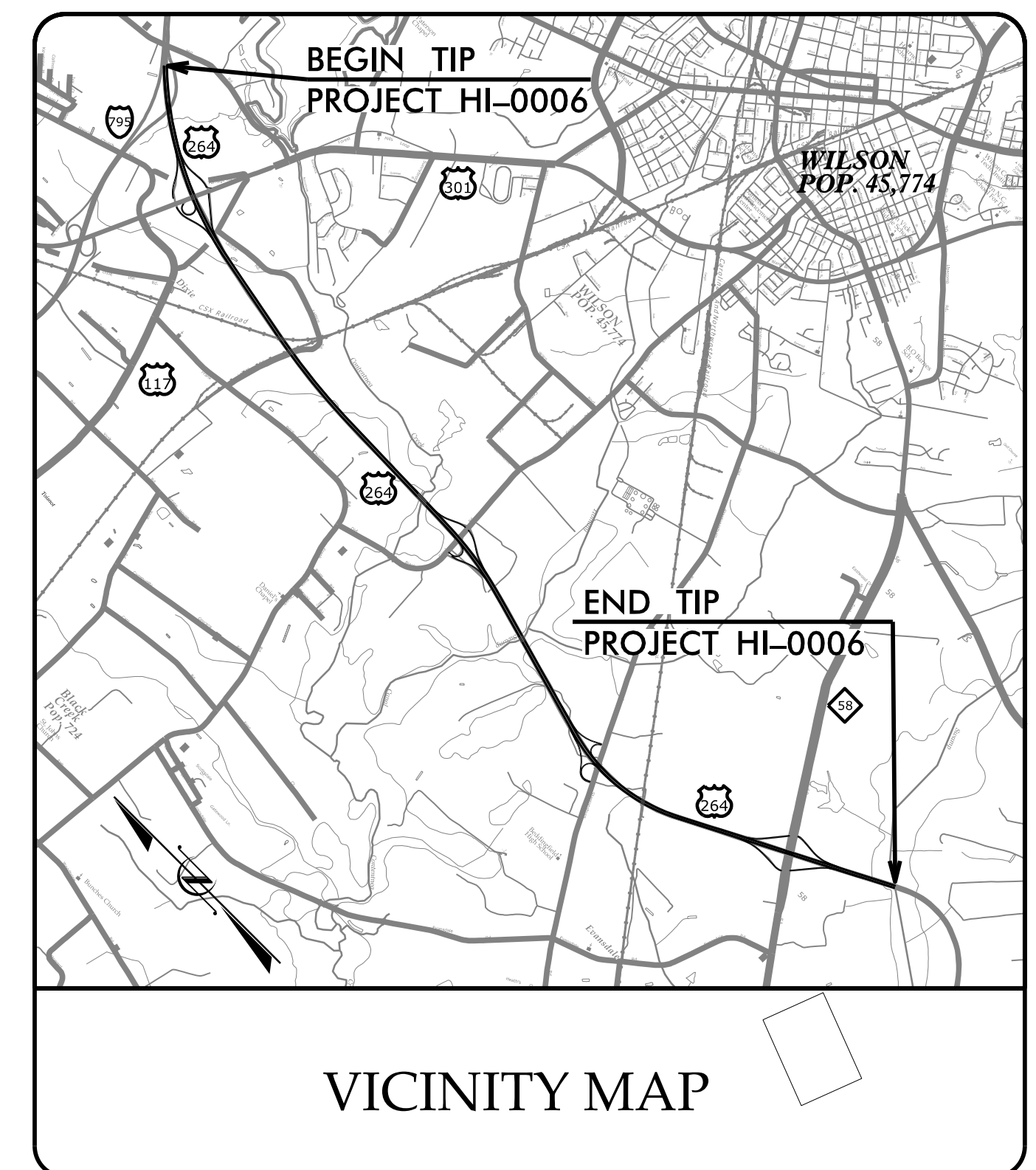
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HI-0006	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49982.1.1		PE	
49982.3.1	0264076	CONST.	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

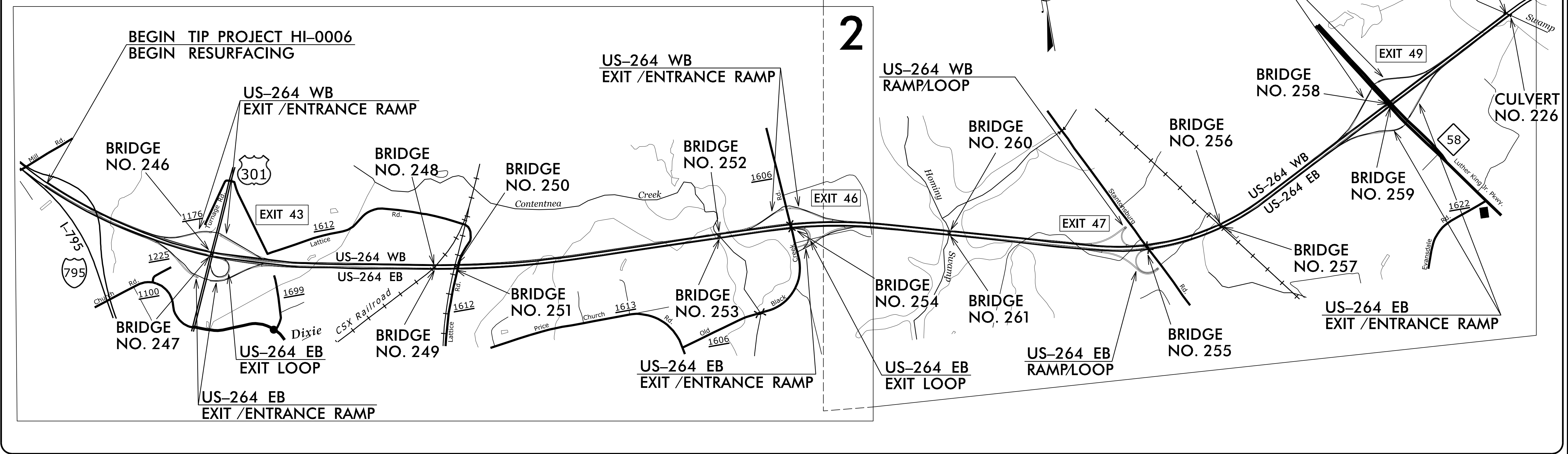
WILSON COUNTY

LOCATION: HI-0006 - US-264 FROM I-795 TO THE TOISNOT SWAMP
TYPE OF WORK: PAVEMENT, STRUCTURE PRESERVATION AND ITS

TIP PROJECT: HI-0006



VICINITY MAP



CONTRACT: C204743

NOT TO SCALE

DESIGN DATA

FUNC CLASS =
FREWAY

PROJECT LENGTH

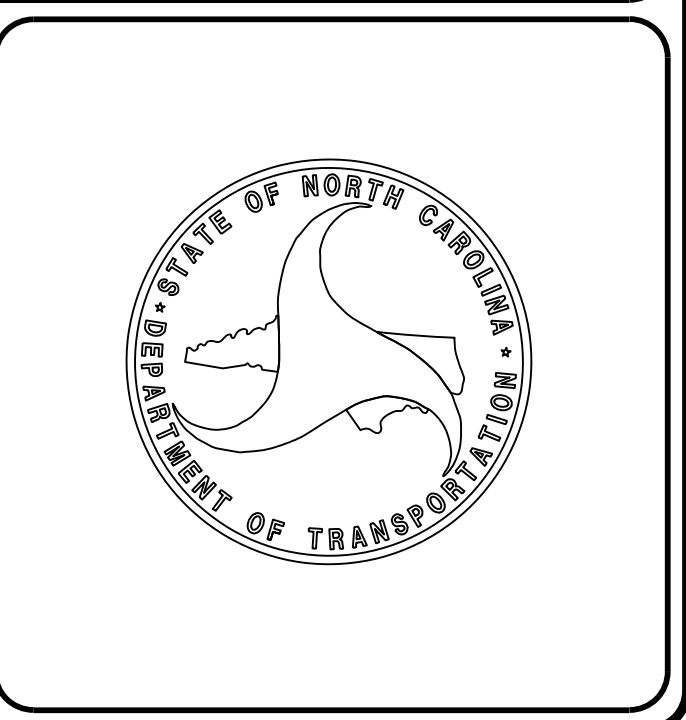
LENGTH ROADWAY TIP PROJECT HI-0006	=	6.231 MILES
LENGTH STRUCTURE TIP PROJECT HI-0006	=	0.739 MILES
TOTAL LENGTH TIP PROJECT HI-0006	=	6.970 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

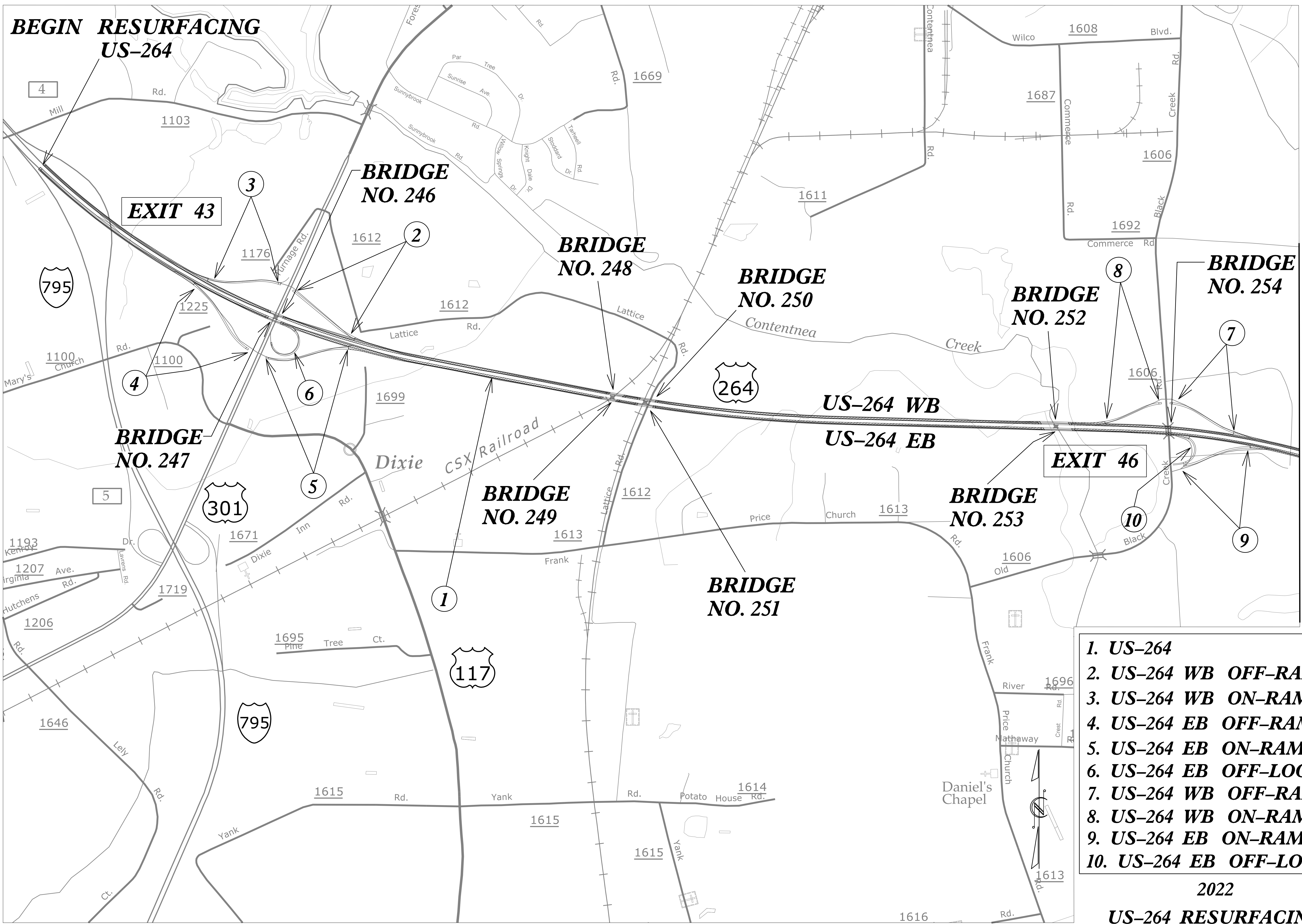
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A	R.K. MURPHY, JR., PE PROJECT ENGINEER
LETTING DATE: SEPTEMBER 20, 2022	SCOTT L. KENNEDY PROJECT DESIGN ENGINEER

Blank area for additional notes or signatures.



8/4/2022
U:\PROJ\HI-0006_Rdy_TSH_01.dgn
USER:KENNEDY



**BEGIN RESURFACING
US-264**

EXIT 43

**BRIDGE
NO. 246**

**BRIDGE
NO. 248**

**BRIDGE
NO. 250**

**BRIDGE
NO. 252**

**BRIDGE
NO. 254**

**BRIDGE
NO. 247**

**BRIDGE
NO. 249**

**BRIDGE
NO. 251**

**BRIDGE
NO. 253**

EXIT 46

**US-264 WB
US-264 EB**

1. US-264
2. US-264 WB OFF-RAMP
3. US-264 WB ON-RAMP
4. US-264 EB OFF-RAMP
5. US-264 EB ON-RAMP
6. US-264 EB OFF-LOOP
7. US-264 WB OFF-RAMP
8. US-264 WB ON-RAMP
9. US-264 EB ON-RAMP
10. US-264 EB OFF-LOOP

2022

US-264 RESURFACING

MATCHLINE SHEET 3

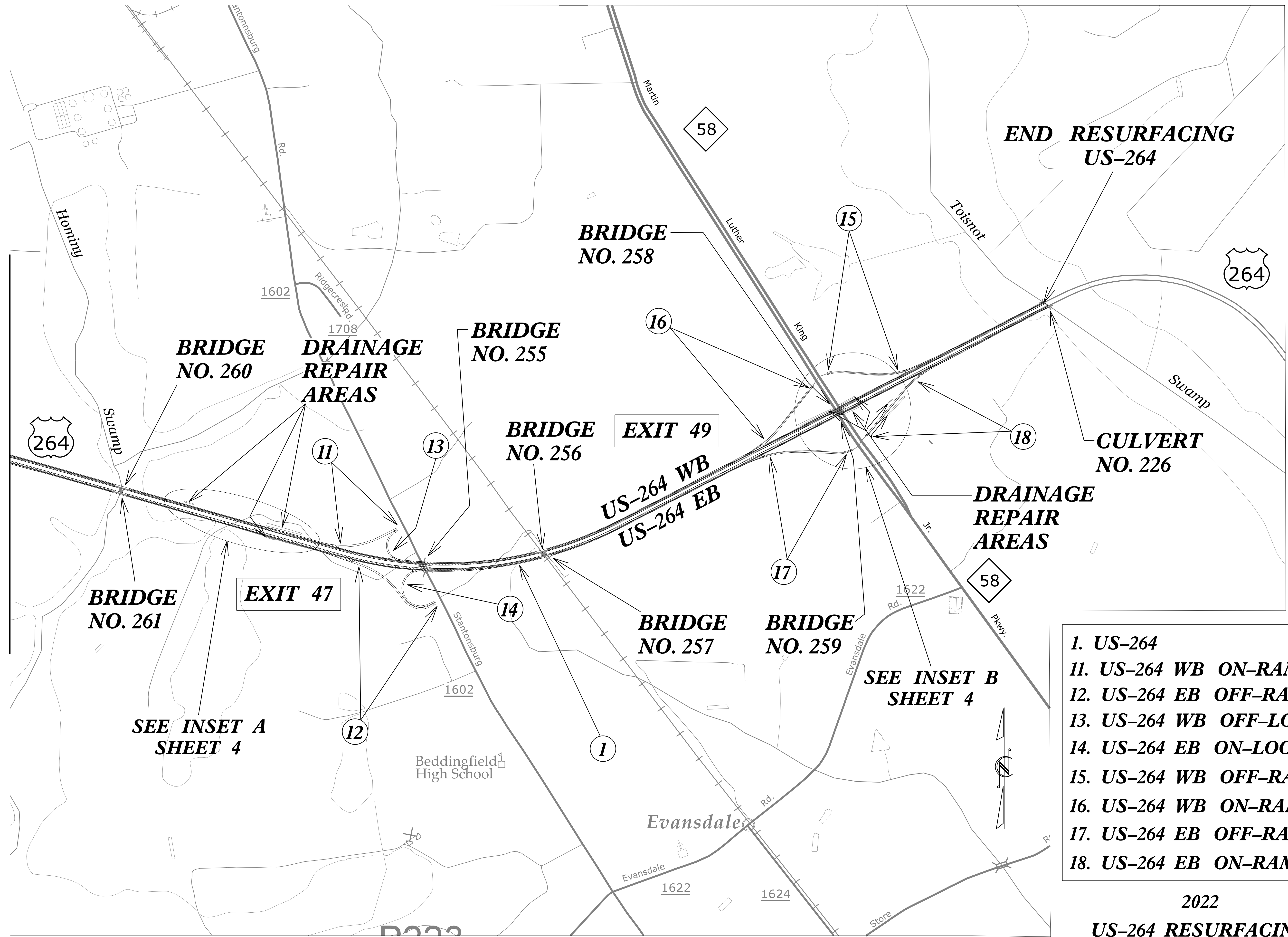
REVISIONS

8/17/99
6/29/2022
T:\Projects\HI-0006_Rd\TSH_02.dgn
TSH

8/17/99

REVISIONS

MATCHLINE SHEET 2



**END RESURFACING
US-264**

**BRIDGE
NO. 260**
**DRAINAGE
REPAIR
AREAS**

**BRIDGE
NO. 255**

**BRIDGE
NO. 256**
EXIT 49
US-264 WB
US-264 EB

**CULVERT
NO. 226**

**DRAINAGE
REPAIR
AREAS**

**BRIDGE
NO. 261**

EXIT 47

**BRIDGE
NO. 257**

**BRIDGE
NO. 259**

**SEE INSET B
SHEET 4**

**SEE INSET A
SHEET 4**

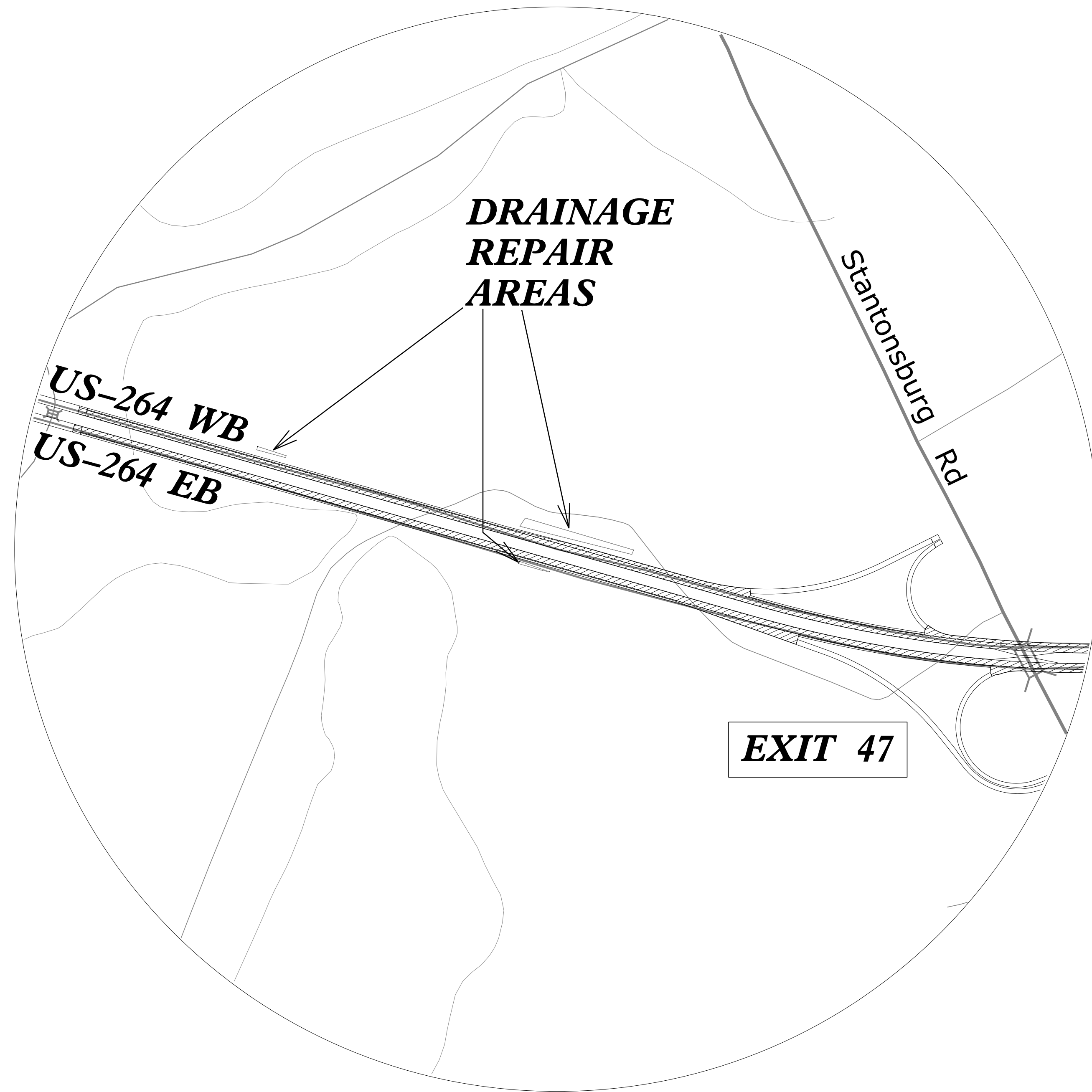
- | |
|------------------------|
| 1. US-264 |
| 11. US-264 WB ON-RAMP |
| 12. US-264 EB OFF-RAMP |
| 13. US-264 WB OFF-LOOP |
| 14. US-264 EB ON-LOOP |
| 15. US-264 WB OFF-RAMP |
| 16. US-264 WB ON-RAMP |
| 17. US-264 EB OFF-RAMP |
| 18. US-264 EB ON-RAMP |

2022

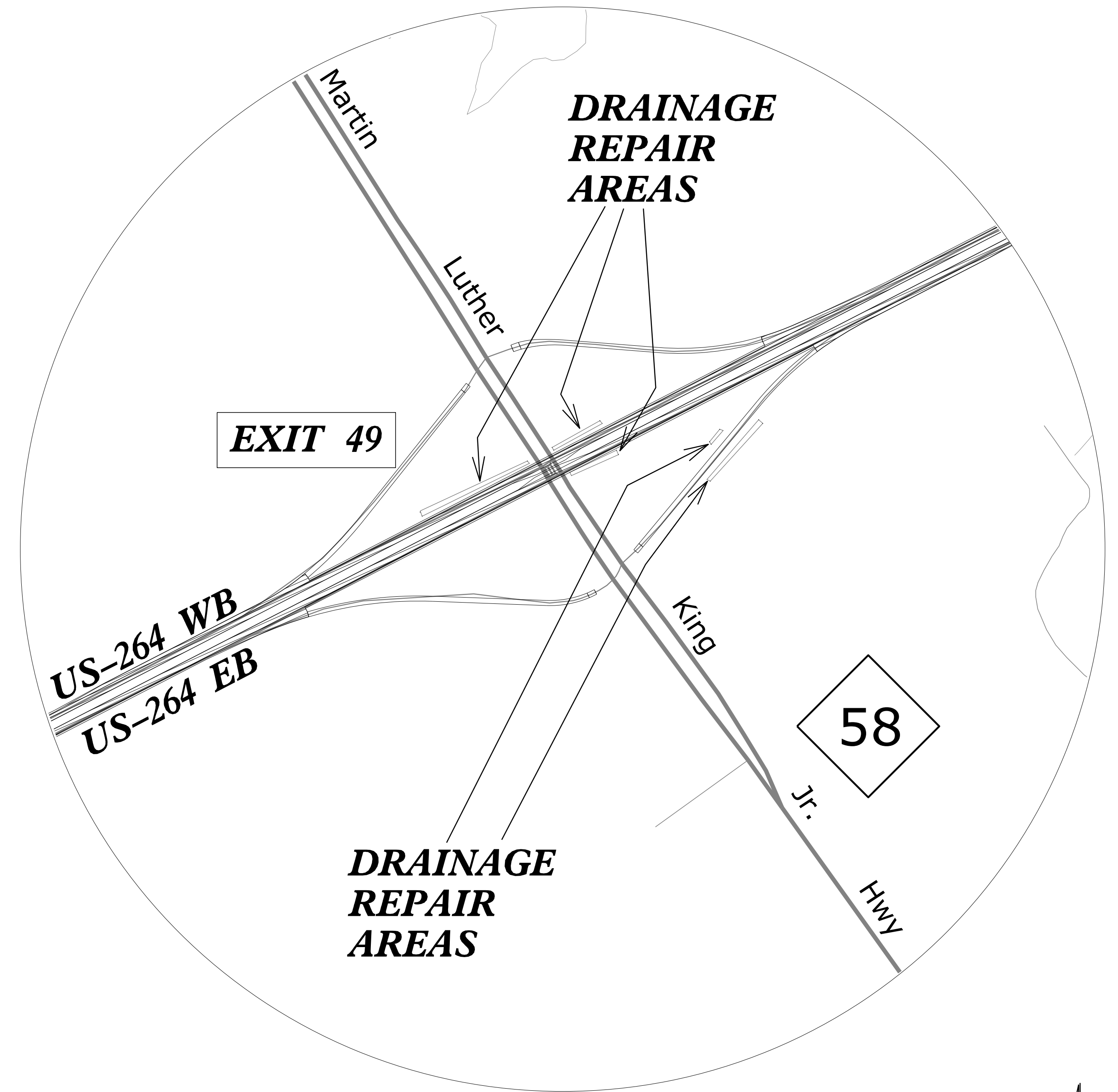
US-264 RESURFACING

6/29/2022
T:\Projects\HI-0006_Rdu_TSH_03.dgn
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INSET A

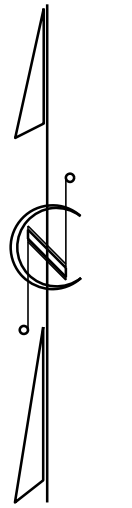


INSET B



REVISIONS

8/17/99
4/25/2022
US-264 HI-0006-Rdu-TSH_04.dgn
US-264 Resurfacing



8/17/99

PAVEMENT SCHEDULE

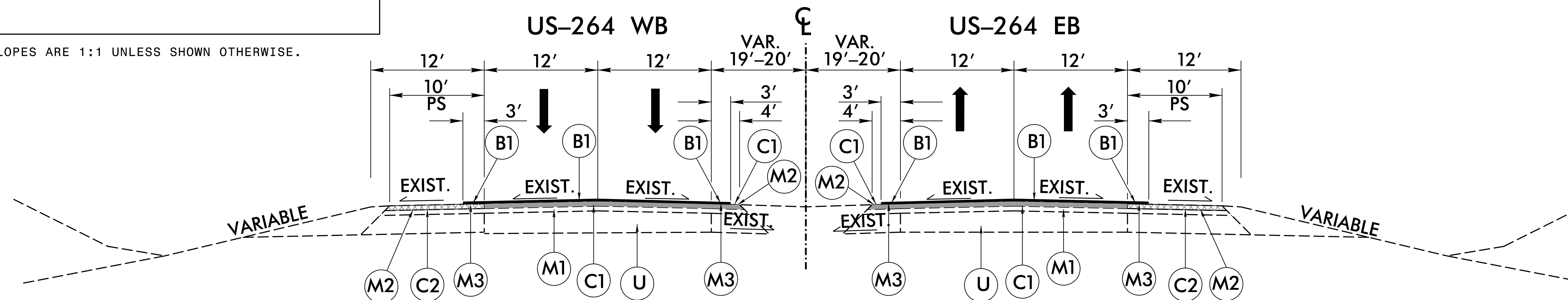
(FINAL PAVEMENT DESIGN)

PROJECT REFERENCE NO. HI-0006 SHEET NO. 2A-1

B1	¾" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED, AT A RATE OF 90 LBS. PER SQ. YD.
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
M1	MILL 2" TO 2.75" OF EXISTING ASPHALT PAVEMENT
M2	MILL 2" OF EXISTING ASPHALT PAVEMENT
M3	MILLED RUMBLE STRIPS
U	EXISTING PAVEMENT

NOTE:
 FOR MILLING EXISTING PAVEMENT,
 WHEN OPEN-GRADED FRICTION COURSE IS PRESENT, USE 2.75" AND
 WHEN OPEN-GRADED FRICTION COURSE IS NOT PRESENT, USE 2".

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



TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1

MAP 1

EXIT #43

EXIT #46

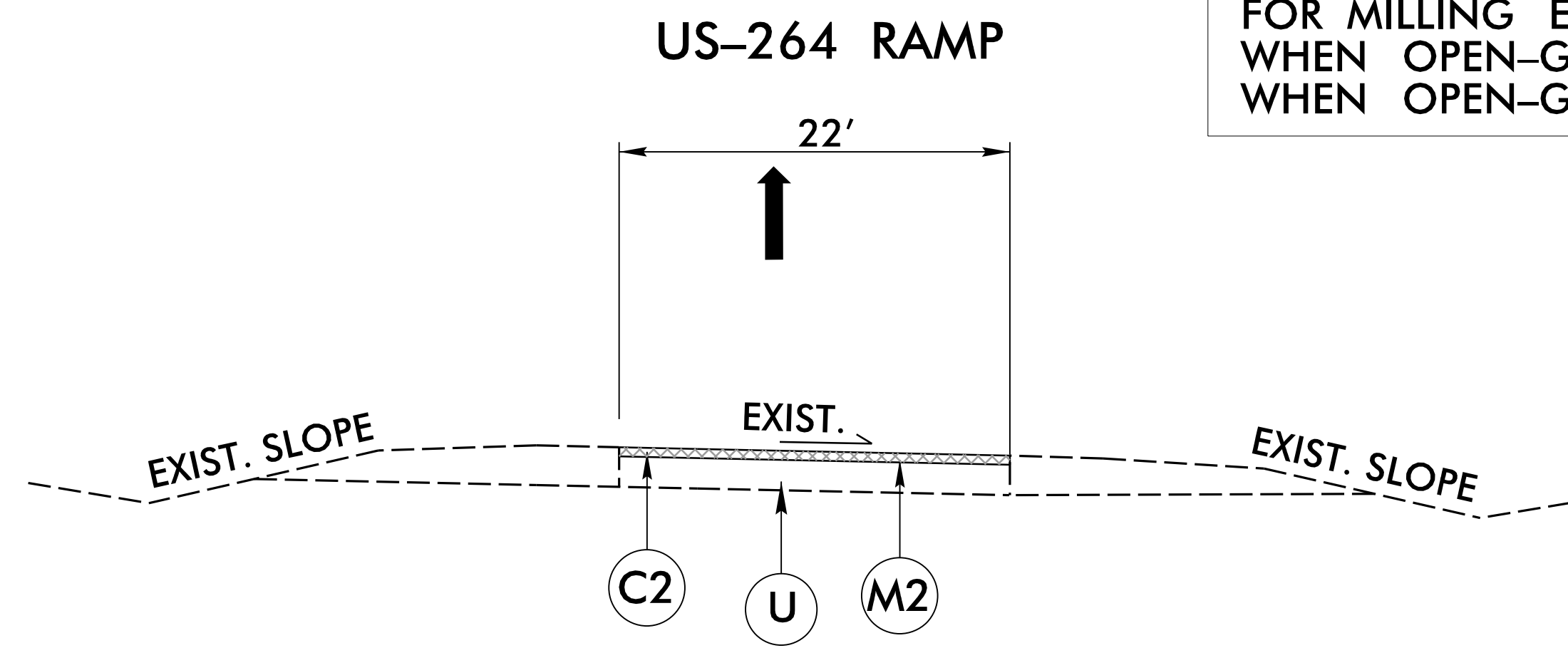
EXIT #47

EXIT #49

REVISIONS

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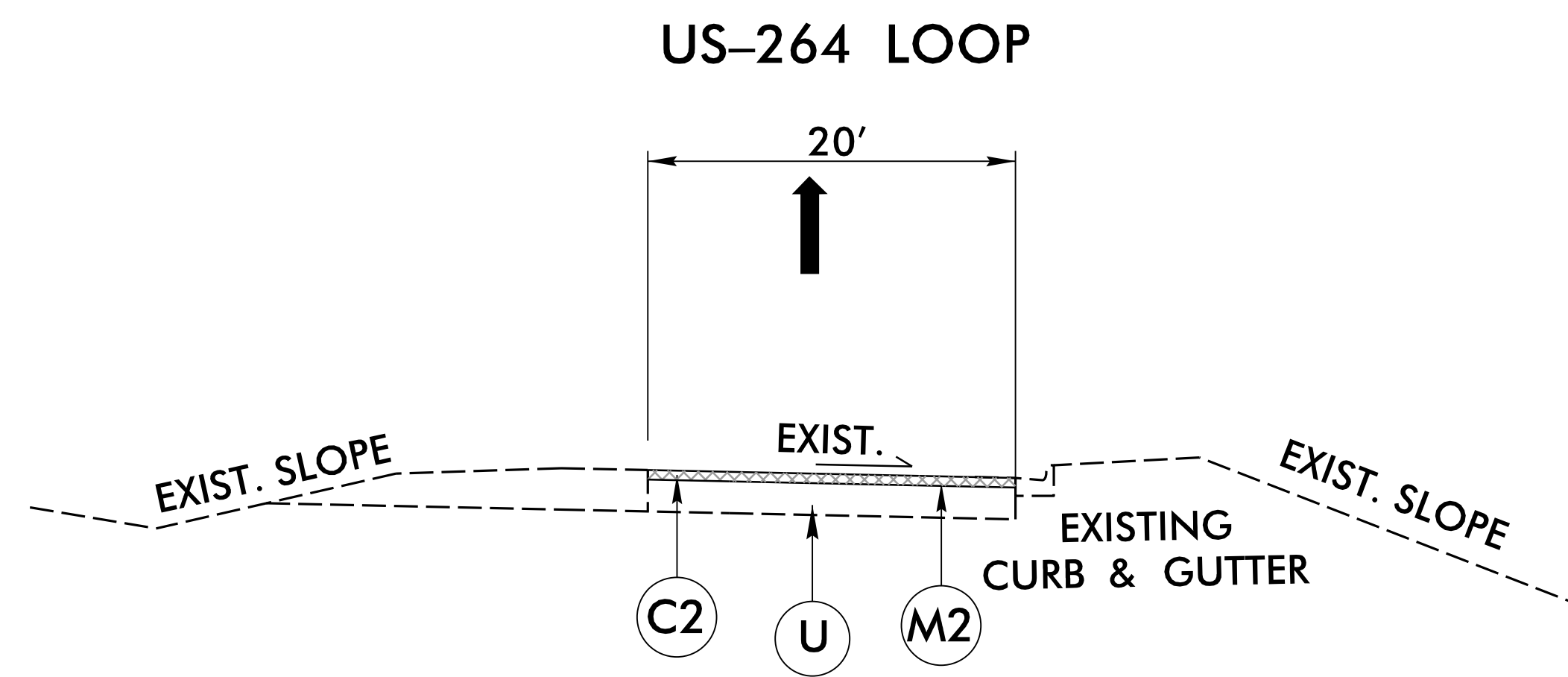
PAVEMENT SCHEDULE	
C2	2" S9.5C
M2	MILL 2"
U	EX. PAVEMENT



NOTE:
 FOR MILLING EXISTING PAVEMENT,
 WHEN OPEN-GRADED FRICTION COURSE IS PRESENT, USE 2.75" AND
 WHEN OPEN-GRADED FRICTION COURSE IS NOT PRESENT, USE 2".

TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2
 MAPS 2, 3, 4, 5, 7, 8, 9,
 11, 12, 15, 16, 17, 18



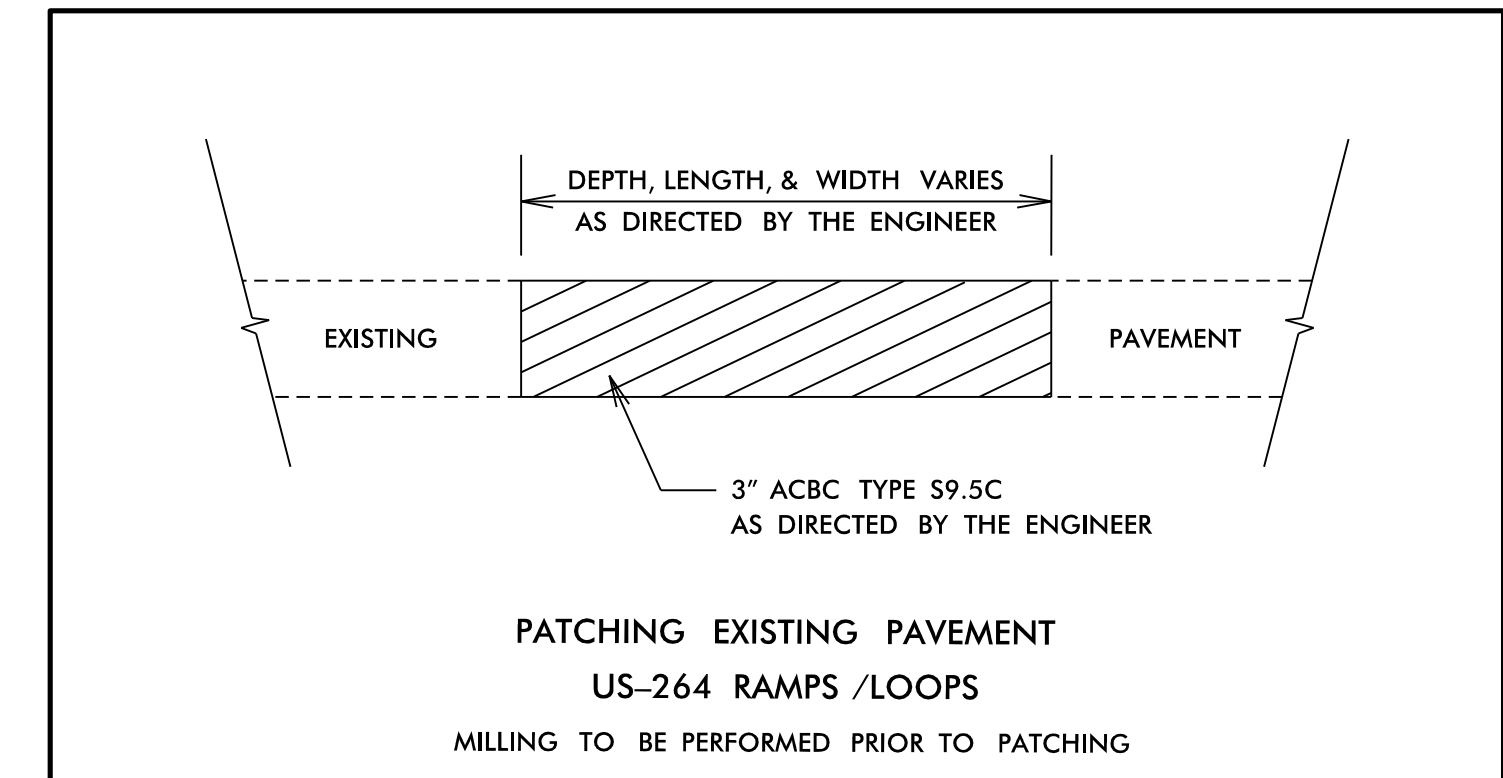
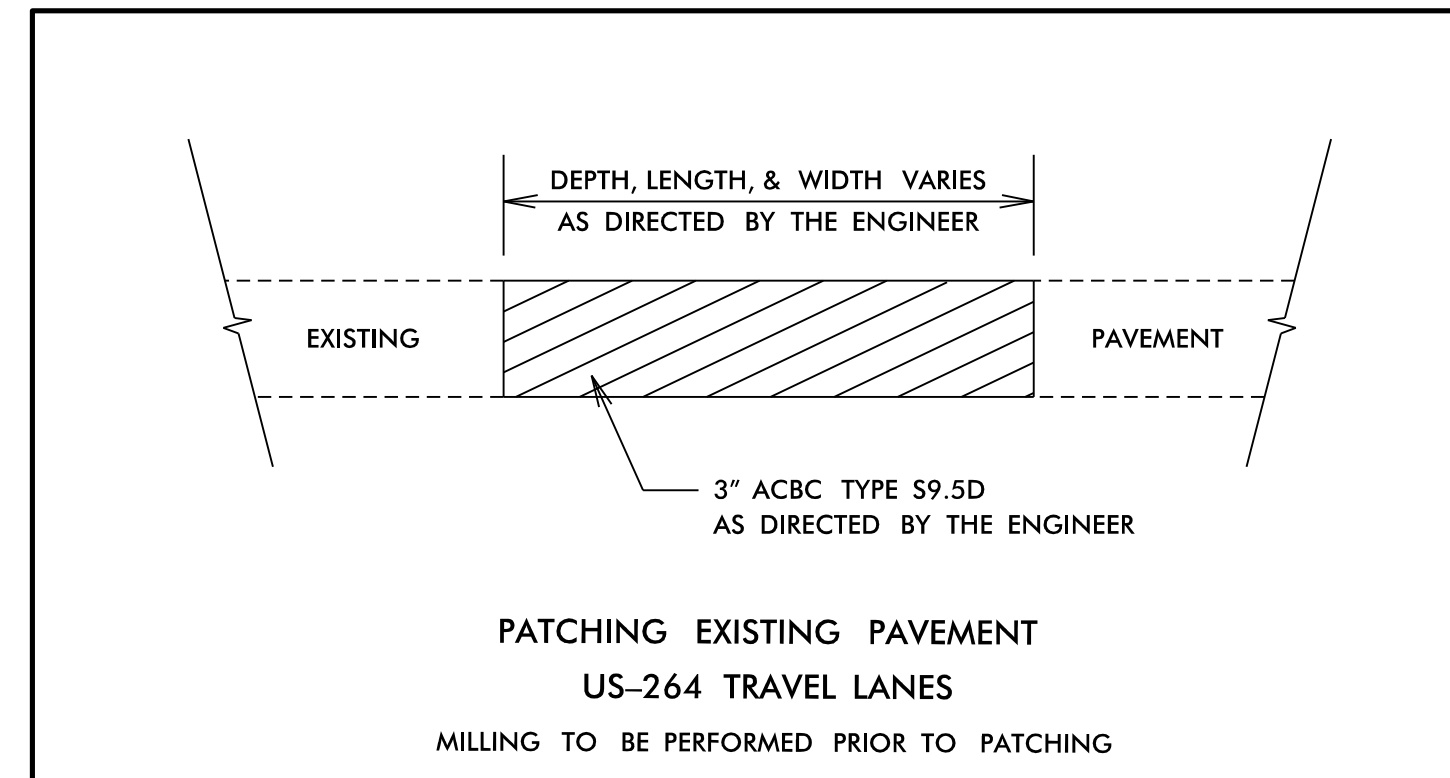
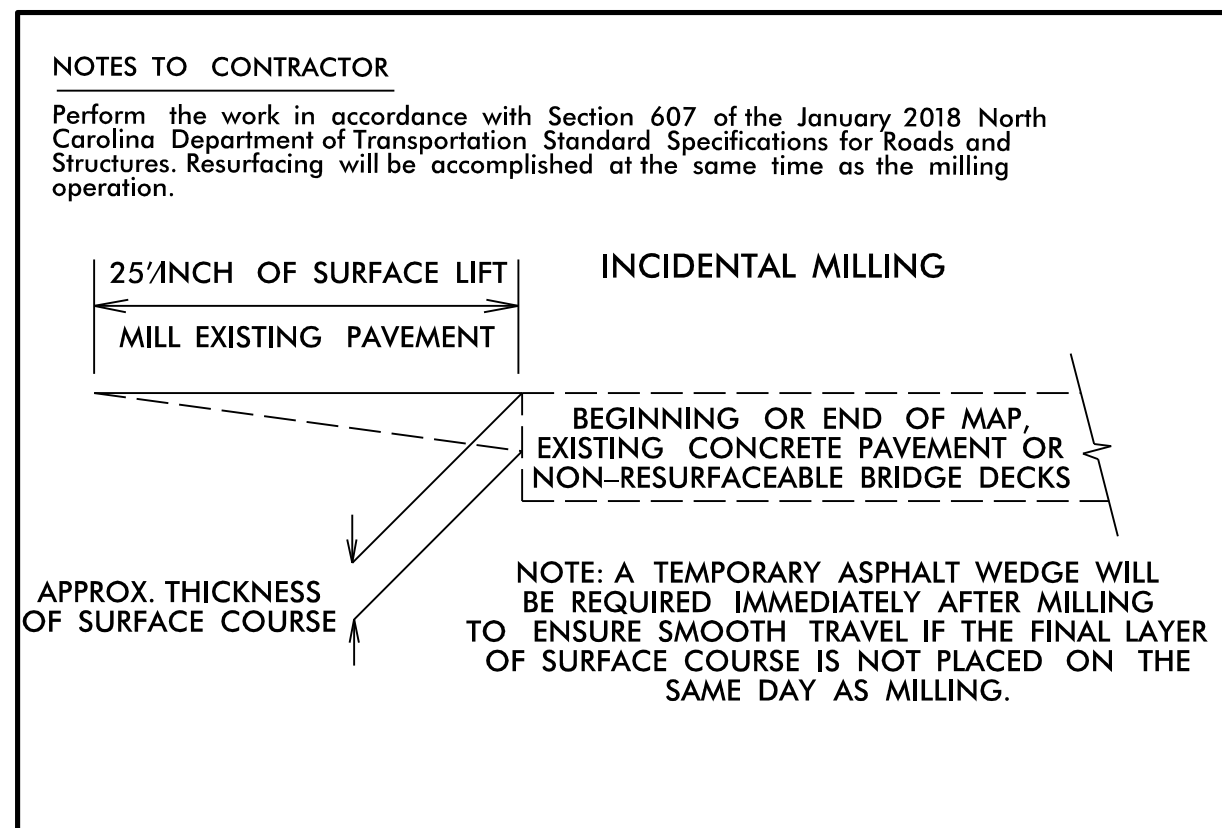
TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3
 MAPS 6, 10, 13, 14

REVISIONS

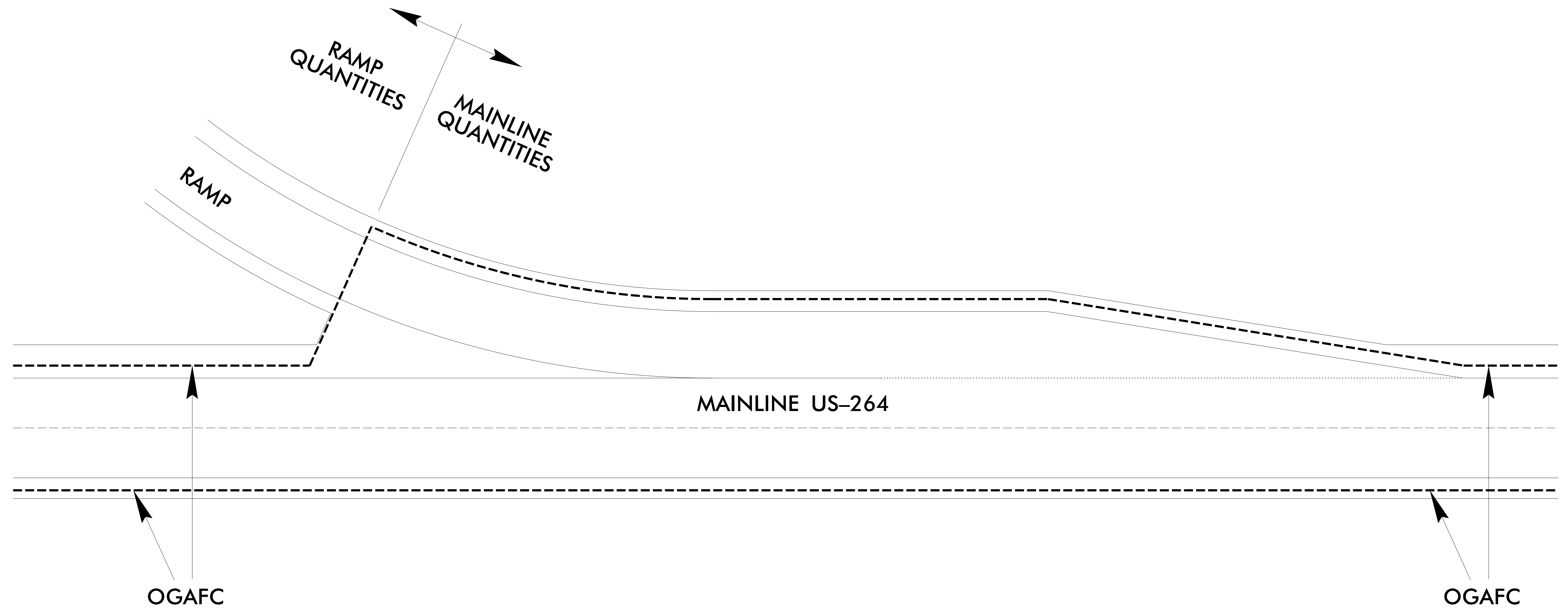
8/17/99

REVISIONS



5/25/2022
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PAVING LIMITS FOR OPEN-GRADED FRICTION COURSE AT EXIT AND ENTRANCE RAMPS & LOOPS



REVISIONS

8/17/99

5/26/2006
11551734006.Fody_psh02A-4_Typ.dgn
11551734006

NOT TO SCALE

SUMMARY OF QUANTITIES

																		PROJECT NO.		SHEET NO.	TOTAL NO.				
																		HI-0006		5					
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL SECTION NO.	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1297000000-E	1308000000-E	1330000000-E	1523200000-E	1524200000-E	1575000000-E	1577000000-E	1662000000-E	1704000000-E	1840000000-E	4400000000-E	4420000000-N	4423000000-N	
												MILLING ASPHALT PAVEMENT, 2" DEPTH	MILLING ASPHALT PAVEMENT, 2" TO 2.75"	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MOD	PATCHING EXIST PVMT	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	WORK ZONE SIGNS (STATIONARY)	PORTABLE CHANGEABLE MESSAGE SIGN	WORK ZONE DIGITAL SPEED LIMIT SIGNS	
											MI	FT	SY	SY	SY	TON	TON	TON	TON	TON	TON	LF	SF	EA	EA
HI-0006 49982.3.1	WILSON	1	US 264	FROM I-795 TO TOISNOT SWAMP	1	4		NO	NO	6.97	76	1,159	264,064	4,584	10,428	24,990	620	1,935	7,805	2,655	141,476	464	4	5	
TOTAL FOR MAP NO. 1											6.97		1,159	264,064	4,584	10,428	24,990	620	1,935	7,805	2,655	141,476	464	4	5
HI-0006 49982.3.1	WILSON	2	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.23	22	3,092		100	346		21			26	50				
TOTAL FOR MAP NO. 2											0.23		3,092		100	346		21			26	50			
HI-0006 49982.3.1	WILSON	3	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.21	22	2,890		142	324		20			24					
TOTAL FOR MAP NO. 3											0.21		2,890		142	324		20			24				
HI-0006 49982.3.1	WILSON	4	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.25	22	3,385		100	379		23			28	50				
TOTAL FOR MAP NO. 4											0.25		3,385		100	379		23			28	50			
HI-0006 49982.3.1	WILSON	5	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.24	22	3,329		100	373		22			28					
TOTAL FOR MAP NO.5											0.24		3,329		100	373		22			28				
HI-0006 49982.3.1	WILSON	6	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.16	20	1,745		84	195		12			15					
TOTAL FOR MAP NO. 6											0.16		1,745		84	195		12			15				
HI-0006 49982.3.1	WILSON	7	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.20	22	2,788		100	312		19			23	50				
TOTAL FOR MAP NO. 7											0.20		2,788		100	312		19			23	50			
HI-0006 49982.3.1	WILSON	8	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.17	22	2,328		100	261		16			20					
TOTAL FOR MAP NO. 8											0.17		2,328		100	261		16			20				
HI-0006 49982.3.1	WILSON	9	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.20	22	2,728		100	306		18			23					
TOTAL FOR MAP NO. 9											0.20		2,728		100	306		18			23				
HI-0006 49982.3.1	WILSON	10	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.09	20	1,024		85	115		7			9					
TOTAL FOR MAP NO. 10											0.09		1,024		85	115		7			9				
HI-0006 49982.3.1	WILSON	11	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.17	22	2,386		100	267		16			20					
TOTAL FOR MAP NO. 11											0.17		2,386		100	267		16			20				
HI-0006 49982.3.1	WILSON	12	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.29	22	3,839		92	430		26			32	50				
TOTAL FOR MAP NO. 12											0.29		3,839		92	430		26			32	50			
HI-0006 49982.3.1	WILSON	13	US 264 WB LOOP	US 264 WB RAMP	3	1		NO	NO	0.09	20	1,008		83	113		7			8					
TOTAL FOR MAP NO. 13											0.09		1,008		83	113		7			8				
HI-0006 49982.3.1	WILSON	14	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.18	20	1,956		75	219		13			16					
TOTAL FOR MAP NO. 14											0.18		1,956		75	219		13			16				
HI-0006 49982.3.1	WILSON	15	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.22	22	3,157		141	354		21			27	50				
TOTAL FOR MAP NO. 15											0.22		3,157		141	354		21			27	50			
HI-0006 49982.3.1	WILSON	16	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.22	22	3,029		100	339		20			25					
TOTAL FOR MAP NO. 16											0.22		3,029		100	339		20			25				
HI-0006 49982.3.1	WILSON	17	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.26	22	3,532		100	396		24			30	50				
TOTAL FOR MAP NO. 17											0.26		3,532		100	396		24			30	50			
HI-0006 49982.3.1	WILSON	18	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.24	22	3,286		100	368		22			28					
TOTAL FOR MAP NO. 18											0.24		3,286		100	368		22			28				
TOTAL											8.26		46,661	264,064	6,286	15,525	24,990	926	1,935	7,805	3,037	141,776	464	4	5
PAY ITEM TOTAL													46,661	264,064	6,286	15,525	24,990	926	1,935	7,805	3,037	141,776	464	4	5

SUMMARY OF QUANTITIES

													PROJECT NO.		SHEET NO.		TOTAL NO.													
													HI-0006		6															
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL SECTION NO.	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH		WIDTH	4510000000-N	4600000000-N	4600000000-N	4600000000-N	4688000000-E	4688000000-E	4700000000-E	4700000000-E	4720000000-E	4725000000-E	4725000000-E	4725000000-E	4725000000-E					
										MI	FT		LAW ENFORCEMENT	SINGLE LANE CLOSURE	RAMP/LOOP CLOSURE	CONNECTED LANE CLOSURE DEVICE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS) "ONLY"	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) LEFT TURN ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) RIGHT TURN ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) MERGE ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) WRONG-WAY RAMP ARROW					
HI-0006 49982.3.1	WILSON	1	US 264	FROM I-795 TO TOISNOT SWAMP	1	4		NO	NO	6.97	76		1,294	118	16	2	100,680	77,790	10,340		8			4	26					
TOTAL FOR MAP NO. 1										6.97			1,294	118	16	2	100,680	77,790	10,340		8			4	26					
HI-0006 49982.3.1	WILSON	2	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.23	22						1,320	1,320								1				
TOTAL FOR MAP NO. 2										0.23							1,320	1,320									1			
HI-0006 49982.3.1	WILSON	3	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.21	22						1,240	1,230												
TOTAL FOR MAP NO. 3										0.21							1,240	1,230												
HI-0006 49982.3.1	WILSON	4	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.25	22						1,440	1,440								1				
TOTAL FOR MAP NO. 4										0.25							1,440	1,440									1			
HI-0006 49982.3.1	WILSON	5	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.24	22						1,420	1,420												
TOTAL FOR MAP NO. 5										0.24							1,420	1,420												
HI-0006 49982.3.1	WILSON	6	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.16	20							930												
TOTAL FOR MAP NO. 6										0.16								930												
HI-0006 49982.3.1	WILSON	7	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.20	22						1,200	1,190								1				
TOTAL FOR MAP NO. 7										0.20							1,200	1,190								1				
HI-0006 49982.3.1	WILSON	8	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.17	22						1,010	1,010												
TOTAL FOR MAP NO. 8										0.17							1,010	1,010												
HI-0006 49982.3.1	WILSON	9	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.20	22						1,170	1,170												
TOTAL FOR MAP NO. 9										0.20							1,170	1,170												
HI-0006 49982.3.1	WILSON	10	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.09	20							570												
TOTAL FOR MAP NO. 10										0.09								570												
HI-0006 49982.3.1	WILSON	11	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.17	22						1,110	1,130		40										
TOTAL FOR MAP NO. 11										0.17							1,110	1,130		40										
HI-0006 49982.3.1	WILSON	12	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.29	22						1,750	1,740		40						1				
TOTAL FOR MAP NO. 12										0.29							1,750	1,740		40						1				
HI-0006 49982.3.1	WILSON	13	US 264 WB LOOP	US 264 WB RAMP	3	1		NO	NO	0.09	20							640								1				
TOTAL FOR MAP NO. 13										0.09								640								1				
HI-0006 49982.3.1	WILSON	14	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.18	20							1,150												
TOTAL FOR MAP NO. 14										0.18								1,150												
HI-0006 49982.3.1	WILSON	15	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.22	22						1,300	1,300	20		1	1				1				
TOTAL FOR MAP NO. 15										0.22							1,300	1,300	20		1	1				1				
HI-0006 49982.3.1	WILSON	16	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.22	22						1,290	1,300												
TOTAL FOR MAP NO. 16										0.22							1,290	1,300												
HI-0006 49982.3.1	WILSON	17	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.26	22						1,500	1,500								1				
TOTAL FOR MAP NO. 17										0.26							1,500	1,500								1				
HI-0006 49982.3.1	WILSON	18	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.24	22						1,400	1,400												
TOTAL FOR MAP NO. 18										0.24							1,400	1,400												
TOTAL										8.26							1,294	118	16	2	117,830	98,230	10,360	80	8	1	5	26	7	
PAY ITEM TOTAL																	1,294					216,060		10,440		8				39.00

SUMMARY OF QUANTITIES

																			PROJECT NO.		SHEET NO.	TOTAL NO.				
																			HI-0006		7					
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL SECTION NO.	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH		WIDTH	481500000-E	481500000-E	482500000-E	482500000-E	483500000-E	485500000-E	486500000-E	487000000-E	484704000-E	484704000-E	470900000-E	490510000-N	744400000-E	
										PAINT PAVEMENT MARKING LINES (6") WHITE	PAINT PAVEMENT MARKING LINES (6") YELLOW		PAINT PAVEMENT MARKING LINES (12") WHITE	PAINT PAVEMENT MARKING LINES (12") YELLOW	PAINT PAVEMENT MARKING LINES (24") WHITE	REMOVAL OF PAVEMENT MARKING LINES (6")	REMOVAL OF PAVEMENT MARKING LINES (12")	REMOVAL OF PAVEMENT MARKING LINES (24")	POLYUREA PAVEMENT MARKING LINES 6", 30 MILS WHITE	POLYUREA PAVEMENT MARKING LINES 6", 30 MILS YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE	NON-CAST IRON SNOWFLOWABLE PAVEMENT MARKER (CRYSTAL/RED)	INDUCTIVE LOOP SAWCUT			
										MI	FT	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	LF		
HI-0006 49982.3.1	WILSON	1	US 264	FROM I-795 TO TOISNOT SWAMP	1	4		NO	NO	6.97	76	210,000	162,200	20,680							4,330	3,320		2,050	625	
TOTAL FOR MAP NO. 1										6.97		210,000	162,200	20,680							4,330	3,320		2,050	625	
HI-0006 49982.3.1	WILSON	2	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.23	22	1,320	1,320											20		
TOTAL FOR MAP NO. 2										0.23		1,320	1,320												20	
HI-0006 49982.3.1	WILSON	3	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.21	22	1,240	1,230													
TOTAL FOR MAP NO. 3										0.21		1,240	1,230													
HI-0006 49982.3.1	WILSON	4	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.25	22	1,440	1,440											20		
TOTAL FOR MAP NO. 4										0.25		1,440	1,440											20		
HI-0006 49982.3.1	WILSON	5	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.24	22	1,420	1,420													
TOTAL FOR MAP NO.5										0.24		1,420	1,420													
HI-0006 49982.3.1	WILSON	6	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.16	20		930													
TOTAL FOR MAP NO. 6										0.16			930													
HI-0006 49982.3.1	WILSON	7	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.20	22	1,200	1,190											20		
TOTAL FOR MAP NO. 7										0.20		1,200	1,190											20		
HI-0006 49982.3.1	WILSON	8	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.17	22	1,010	1,010													
TOTAL FOR MAP NO. 8										0.17		1,010	1,010													
HI-0006 49982.3.1	WILSON	9	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.20	22	1,170	1,170													
TOTAL FOR MAP NO. 9										0.20		1,170	1,170													
HI-0006 49982.3.1	WILSON	10	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.09	20		570													
TOTAL FOR MAP NO. 10										0.09			570													
HI-0006 49982.3.1	WILSON	11	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.17	22	1,110	1,130	40		154										
TOTAL FOR MAP NO. 11										0.17		1,110	1,130	40		154										
HI-0006 49982.3.1	WILSON	12	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.29	22	1,750	1,740	40	50	119	30	43				50	20			
TOTAL FOR MAP NO. 12										0.29		1,750	1,740	40	50	119	30	43			50	20				
HI-0006 49982.3.1	WILSON	13	US 264 WB LOOP	US 264 WB RAMP	3	1		NO	NO	0.09	20		640		50	88	30	45				50	20			
TOTAL FOR MAP NO. 13										0.09			640		50	88	30	45			50	20				
HI-0006 49982.3.1	WILSON	14	US 264 EB LOOP	US 264 EB RAMP	3	1		NO	NO	0.18	20		1,150			50										
TOTAL FOR MAP NO. 14										0.18			1,150			50										
HI-0006 49982.3.1	WILSON	15	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.22	22	1,300	1,300	20										30		
TOTAL FOR MAP NO. 15										0.22		1,300	1,300	20									30			
HI-0006 49982.3.1	WILSON	16	US 264 WB RAMP	US 264 WB RAMP	2	1		NO	NO	0.22	22	1,290	1,300													
TOTAL FOR MAP NO. 16										0.22		1,290	1,300													
HI-0006 49982.3.1	WILSON	17	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.26	22	1,500	1,500											20		
TOTAL FOR MAP NO. 17										0.26		1,500	1,500										20			
HI-0006 49982.3.1	WILSON	18	US 264 EB RAMP	US 264 EB RAMP	2	1		NO	NO	0.24	22	1,400	1,400													
TOTAL FOR MAP NO. 18										0.24		1,400	1,400													
TOTAL										8.26		227,150	182,640	20,700	80	100	411	60	88	4,330	3,320	100	2,200	625		
PAY ITEM TOTAL												409,790		20,780		100	411	60	88	7,650		100	2,200			

SUMMARY OF QUANTITIES - DRAINAGE

PROJECT NO. HI-0006 SHEET NO. 8

PROJECT NUMBER	COUNTY	Item #	Map Figure #	ROUTE	LONG	LAT	DESCRIPTION	0106000000-E	0234000000-E	0318000000-E	0320000000-E	0366000000-E	0372000000-E	0995000000-E	1220000000-E	2275000000-E	2752000000-E	2484000000-E	2473000000-N	2253000000-E	2365000000-N	2473000000-N	6000000000-E	6012000000-E	6029000000-E	6042000000-E	6071010000-E	6084000000-E	6117500000-N					
								BORROW EXCAVATION	GENERIC GRADING ITEM, SLOPE RESTORATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	FOUNDATION CONDITIONING GEOTEXTILE	15" RC PIPE CULVERTS, CLASS III	18" RC PIPE CULVERTS, CLASS III	PIPE REMOVAL	INCIDENTAL STONE BASE	FLOWABLE FILL	GENERIC PAVING ITEM- REMOVE AND REPLACE SHOULDER BERM GUTTER	GENERIC DRAINAGE ITEM- DRAINAGE SHOULDER BERM GUTTER DEBRIS REMOVAL	GENERIC DRAINAGE ITEM- DRAINAGE STRUCTURE CLEANOUT	PIPE COLLARS	FRAME WITH TWO GRATES, STD 840.22	GENERIC DRAINAGE ITEM- CONCRETE APRON	TEMPORARY SILT FENCE	SEDIMENT CONTROL STONE	SAFETY FENCE	1/4" HARDWARE CLOTH	WATTLE	SEEDING & MULCHING	CONCRETE WASHOUT STRUCTURE					
								CY	CY	TON	SY	LF	LF	LF	TON	CY	LF	LF	EA	CY	EA	EA	LF	TON	LF	LF	LF	ACR	EA					
1	na	US 264 EB	-77.85871013	35.67418779	Erosion Around box	20			0.85	2.67	8			8					0.399				5			40	40	0.1						
2	na	US 264 EB	-77.85435975	35.67594504	Shoulder Wash	5																							0.1					
3	na	US 264 WB	-77.85486494	35.67620058	Erosion Around box	10																1		5			40	40	0.1					
4	15	Ramp	na	na	Low shoulder										50																			
5	17	Ramp	na	na	Low shoulder										100																			
6	18	Ramp	na	na	Low shoulder										100																			
7	16	Ramp	na	na	Low shoulder										100															1				
8	12	Ramp	na	na	Low shoulder										100																			
9	8	Ramp	na	na	Low shoulder										130																			
10	7	Ramp	na	na	Low shoulder										50																			
11	9	Ramp	na	na	Low shoulder										50																			
12	3	Ramp	na	na	Low shoulder										150																			
13	2	Ramp	na	na	Low shoulder										50																			
14	5	Ramp	na	na	Low shoulder										50																			
15	11	Ramp	na	na	Low shoulder										100																			
16	na	US 264 WB	-77.87480797	35.66879923	Wash Behind GuardRail	20										40			1				5			40	40	0.1						
17	na	US 264 Median	-77.89168318	35.67126612	Erosion Around box	1																	5			40	40	0.1						
18	na	US 264 WB	-77.91531657	35.67455939	Shoulder Wash	30																							0.1					
19	na	US 264 WB	-77.92736044	35.67496023	Shoulder Wash	20																							0.1					
20	na	US 264 WB	-77.92712509	35.6750085	Shoulder Wash	12																							0.1					
21	na	US 264 Median	-77.9587784	35.68181821	Erosion Around box	20																	5			40	40	0.1						
22	na	US 264 Median	-77.95675568	35.68080486	Erosion Around box	8																	5			40	40	0.1						
23	na	US 264 Median	-77.86102254	35.67345743	Erosion Around box	30			1.70	5.33			16	16					0.893				5			40	40	0.1						
24	na	US 264 Median	-77.85878126	35.67433175	Erosion Around box	5			0	0													5			40	40	0.1						
25	na	US 264 EB	na	na	Slope Repair				220																				0.13					
26	na	US 264 WB	na	na	Slope Repair				1300																				0.81					
27	18	Ramp	na	na	Slope Repair				350																				0.21					
28	na	US 264 EB	na	na	Shoulder berm gutter debris												6,000						50						1					
29	na	US 264 WB	na	na	Shoulder berm gutter debris										10		10,500				1		50		50				1					
TOTAL								181	1870	2.54	8.00	8	16	24	1030	10	40	16,500	1	1.292	1	1	100	40	100	320	320	2.35	3					
SAY								200	2000	3	10				1100														350	350	2.5			

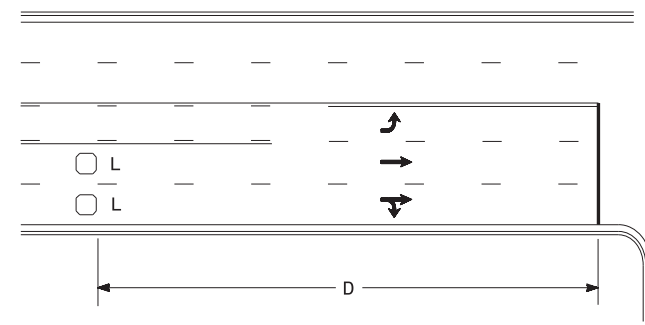
HI-0006

Wilson

SUMMARY OF QUANTITIES - GUARDRAIL

						3150000000-N	3347000000-E	3360000000-E	3030000000-E	3045000000-E	3210000000-N	3435000000-N	3001000000-N
PROJECT NUMBER	COUNTY	Item #	Map Figure #	ROUTE	ADDITIONAL GUARDRAIL POSTS	REMOVE & RESET EXISTING GUARD-RAIL	REMOVE EXISTING GUARDRAIL	STEEL BEAM GUARDRAIL	STEEL BEAM GUARDRAIL, SHOP CURVED	GUARDRAIL END UNITS, TYPE CAT-1	GENERIC GUARDRAIL ITEM (REMOVE AND RESET EXISTING GUARDRAIL END UNITS TYPE TL-3)	IMPACT ATTENUATOR UNITS, TYPE TL-3	
					EA	LF	LF	LF	LF	EA	EA	EA	
HI-0006	Wilson	1	na	US 264 EB	20	19841	2205	2205	0	11	15	6	
		2	na	US 264 WB		17710	1968	1968	0	8	10	0	
		3	2	WB off Ramp		0	0	0	0	0	0	0	0
		4	3	WB on Ramp		0	0	0	0	0	0	0	0
		5	4	EB off Ramp		0	0	0	0	0	0	0	0
		6	5	EB on Ramp		1054	117	117	0	0	0	1	0
		7	6	EB off Loop		0	0	0	0	0	0	0	0
		8	7	WB off Ramp		0	0	0	0	0	0	0	0
		9	8	WB on Ramp		0	0	0	0	0	0	0	0
		10	9	EB on Ramp		0	0	0	0	0	0	0	0
		11	10	EB off Loop		0	0	0	0	0	0	0	0
		12	11	WB on Ramp		0	0	0	0	24	0	0	0
		13	12	WB off Ramp		516	57	57	12	12	0	1	0
		14	13	EB off Loop		36	4	4	12	12	1	0	0
		15	14	EB on Loop		72	8	8	0	0	1	0	0
		16	15	EB off Ramp		0	0	0	0	0	0	0	0
		17	16	WB on Ramp		0	0	0	0	0	0	0	0
		18	17	WB off Ramp		0	0	0	0	0	0	0	0
		19	18	EB on Ramp		0	0	0	0	0	0	0	0
TOTAL					20	39230	4359	4359	48	21	27	6	
SAY					20	40000	4375	4375	60				

High Speed Detection (≥40 mph)

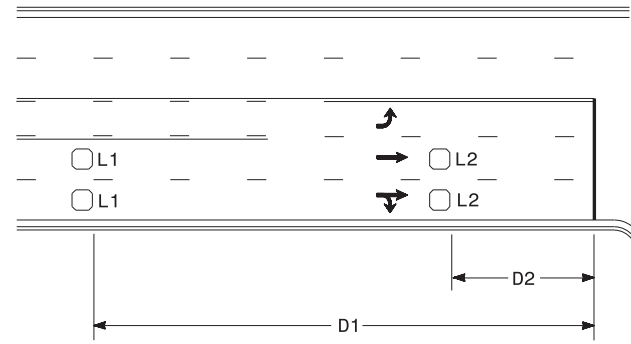


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR

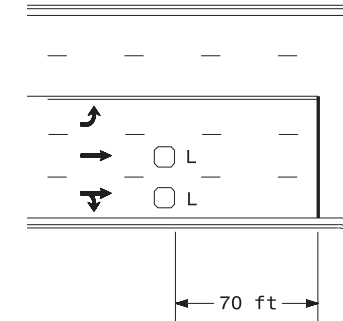


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series
L2 = 6ft X 6ft
Wired in series

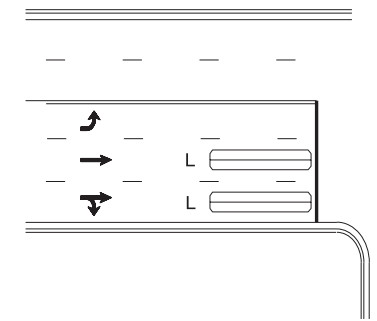
"Stretch" Operation

Low Speed Detection (≤35 mph)



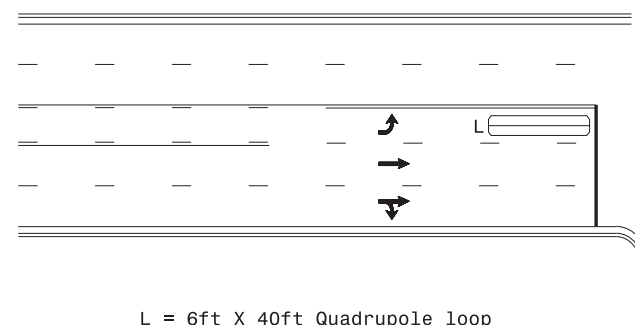
L = 6ft X 6ft
Wired in series

OR



L = 6ft X 40ft
Quadrupole loop, wired separately

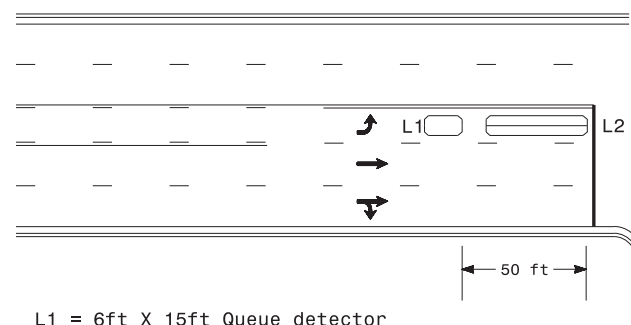
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

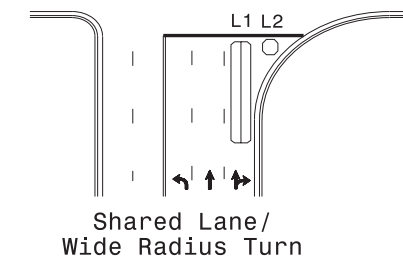
OR



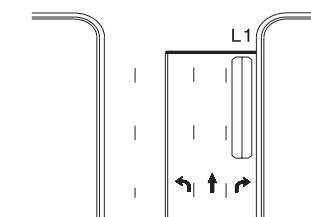
L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection

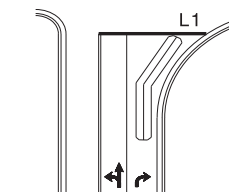
Right Turn Lane Detection



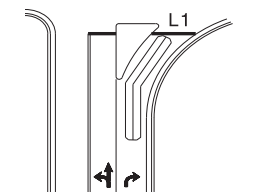
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

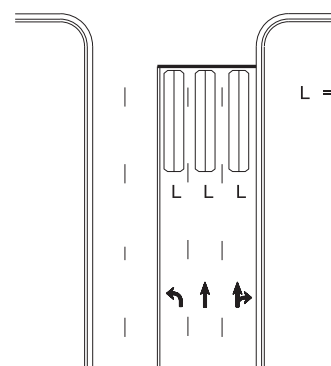


Wide Radius Turn



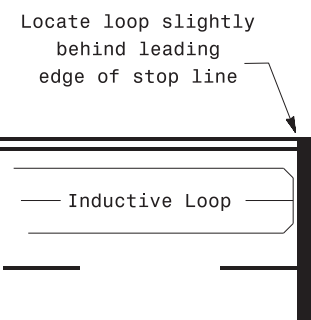
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Note:
Loop may be located in advance of stop line under any of the following conditions:
1) stop line is greater than 15' from edge of intersecting roadway
2) loop detects a permissive or protected/permissive left turn
3) for an exclusive right turn lane

Recommended Number of Turns

Single 6' X 6' loop
(when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' Loops:
Lead-in < 150', use 2 turns
Lead-in > 150', use 3 turns

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE
N/A

Typical Signal Loop Locations

PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:
REVISIONS	INIT. DATE

SEAL

9/8/2020

SIG. INVENTORY NO.