09/08/99

TIP PORJECT: HS-2414K

CONTRACT: DN01102

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350
BIC = BURIED IN CUT

MACON COUNTY
US-64

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DN01102	14	22

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
50986.3.12	5098609	CONSTRUCTION

GUARDRAIL SUMMARY

ROUTE	STATION NUMBER/ MILE MARKER	EXISTING UNIT	PROPOSED UNIT	LENGTH			LENGTH		DIRECTION	MILE MARKER	FLARE LENGTH		W		TYPE OF END-UNIT									IMPACT ATTENUATOR TYPE 350			EXTRA LENGTH GUARDRAIL POSTS (8')	REMOVE RAIL	REMARKS
				END-UNIT	RAIL ONLY	SHOP CURVED	HEIGHT ADJUST	TRANSITION PL			APPROACH END	TRAILING END	APPROACH END	TRAILING END	MFLEAT: TL-3	MSKT: TL-3	B-83	B-77	AT-1	BIC	CAT-1	·	·	NO.	PERMITTED G	PERMITTED NG			
US-64	00+13	TAPERED TO GROUND	MSKT TL-3	50.00	225.00	0	50.00	0	EASTBOUND	0.13						1												200.00	REMOVE 200' OF OLD RAIL AND REINSTALL 225' AND MSKT TO EXTEND THE END UNIT TO MATCH LON
US-64	00+29	ANCHORED STUB	MFLEAT TL-3	39.70	0	0	50.00	0	EASTBOUND	0.29					1													43.75	
US-64	00+44	ANCHORED STUB	MFLEAT TL-3	39.70	0	0	50.00	0	WESTBOUND	0.44					1													43.75	
US-64	00+67	TAPERED TO GROUND	MSKT TL-3	50.00	137.50	0	50.00	0	WESTBOUND	0.67						1												112.50	REMOVE 112.50' OF OLD RAIL AND REINSTALL 137.50' AND MSKT TO EXTEND THE END UNIT TO MATCH LON
US-64	00+77	ANCHORED STUB	MFLEAT TL-3	39.70	0	0	50.00	0	WESTBOUND	0.77					1													43.75	
US-64	00+81	ANCHORED STUB	MFLEAT TL-3	39.70	0	0	50.00	0	EASTBOUND	0.81					1													0	
US-64	00+85	ANCHORED STUB	MFLEAT TL-3	39.70	0	0	50.00	0	EASTBOUND	0.85					1													43.75	
US-64	1+38	ANCHORED STUB	MSKT TL-3	50.00	25.00	0	50.00	0	WESTBOUND	1.38						1												75.00	
US-64	1+44	ANCHORED STUB	MFLEAT TL-3	39.70	0	0	50.00	0	EASTBOUND	1.44					1													43.75	
US-64	1+48	ANCHORED STUB	MFLEAT TL-3	39.70	0	0	50.00	0	WESTBOUND	1.48					1													43.75	
US-64	1+65	ANCHORED STUB	MFLEAT TL-3	39.70	25.00	0	50.00	0	WESTBOUND	1.65					1													68.75	
US-64	1+68	ANCHORED STUB	MFLEAT TL-3	39.70	25.00	0	50.00	0	WESTBOUND	1.68					1													68.75	TRAILING. USE 25' TRANISTION TO CREATE THE 13:1 NEEDED
US-64	1+72	TEXAS TURN DOWN	B-77	0	25.00	0	50.00	22.875	WESTBOUND	1.72								1										50.00	
US-64	1+76	TEXAS TURN DOWN	B-77	0	25.00	0	50.00	22.875	EASTBOUND	1.76								1										50.00	
US-64	1+79	ANCHORED STUB	MFLEAT TL-3	39.70	25.00	0	50.00	0	EASTBOUND	1.79					1													68.75	TRAILING. USE 25' TRANSITION TO CREATE THE 13:1 NEEDED
US-64	2+07	ANCHORED STUB	MFLEAT TL-3	39.70	0	0	50.00	0	WESTBOUND	2.07					1													43.75	
US-64	2+22	ANCHORED STUB	AT-1	6.25	0	6.25	50.00	0	EASTBOUND	2.22									1									12.50	UNIT OUTSIDE OF CLEAR ZONE. CREATE 4' OFFSET FOR AT-1
US-64	2+43	BCT	MFLEAT TL-3	39.70	0	0	25.00	0	WESTBOUND	2.43					1													43.75	TRAILING
US-64	2+51	BCT	MFLEAT TL-3	39.70	25.00	0	25.00	0	EASTBOUND	2.51					1													68.75	USE 25' TRANSITION TO CREATE THE 13:1 NEEDED
US-64	2+81	BCT	MFLEAT TL-3	39.70	25.00	0	25.00	0	EASTBOUND	2.81					1													68.75	TRAILING. USE 25' TRANSITION TO CREATE THE 13:1 NEEDED
US-64	2+82	TAPERED TO GROUND	BURIED IN CUT	50.00	25.00	0	25.00	0	WESTBOUND	2.82										1								75.00	
US-64	2+90	BCT	BURIED IN CUT	50.00	25.00	0	25.00	0	WESTBOUND	2.90										1								75.00	TRAILING
US-64	3+24	BCT	MSKT TL-3	50.00	25.00	0	25.00	0	WESTBOUND	3.24						1												75.00	MATCH EXISTING 2' OFFSET
US-64	3+32	BCT	MSKT TL-3	50.00	25.00	0	25.00	0	WESTBOUND	3.32						1												62.50	TRAILING
US-64	3+91	ET-PLUS	MFLEAT TL-3	39.70	25.00	0	25.00	0	EASTBOUND	3.91					1													75.00	ET-PLUS UNIT HAS MISSING PARTS.
US-64	3+94	BCT	MSKT TL-3	50.00	25.00	0	25.00	0	WESTBOUND	3.94						1												75.00	MATCH EXISTING 2' OFFSET
US-64	3+95	BCT	MFLEAT TL-3	39.70	0	0	25.00	0	EASTBOUND	3.95					1													43.75	TRAILING
US-64	4+39	BCT	MFLEAT TL-3	39.70	0	0	25.00	0	EASTBOUND	4.39					1													43.75	
US-64	4+47	BCT	N/A	0	125.00	0	50.00	0	EASTBOUND	4.47																	12.50	REMOVE EXISTING END UNITS AND CONNECT BOTH SEGMENTS OF RAIL TO CLOSE THE LESS THAN 300' GAP
US-64	4+64	BCT	MFLEAT TL-3	39.70	25.00	0	25.00	0	WESTBOUND	4.64					1													68.75	USE 25' TRANSITION TO CREATE THE 13:1 NEEDED
US-64	4+68	BCT	MFLEAT TL-3	39.70	25.00	0	25.00	0	EASTBOUND	4.68					1													68.75	TRAILING. USE 25' TRANSITION TO CREATE 13:1 NEEDED
US-64	4+95	BCT	BURIED IN CUT	50.00	25.00	0	25.00	0	EASTBOUND	4.95										1								75.00	CONCRETE REPAIR MAY BE NEEDED FOR RACEWAY
US-64	5+03	BCT	MSKT TL-3	50.00	25.00	0	25.00	0	WESTBOUND	5.03						1												75.00	TRAILING
US-64	5+13	ANCHORED STUB	MSKT TL-3	50.00	25.00	0	50.00	0	WESTBOUND	5.13						1												75.00	
US-64	5+18	BCT	BURIED IN CUT	50.00	25.00	0	50.00	0	WESTBOUND	5.18										1								75.00	
US-64	5+26	BCT	MFLEAT TL-3	39.70	0	0	25.00	0	WESTBOUND	5.26					1													75.00	
US-64	5+38	BCT	BURIED IN CUT	50.00	50.00	0	25.00	0	WESTBOUND	5.38										1								43.75	TRAILING
US-64	5+59	BCT	MFLEAT TL-3	39.70	0	0	25.00	0	WESTBOUND	5.59					1													87.50	
US-64	5+72	TAPERED TO GROUND	BURIED IN CUT	50.00	50.00	0	50.00	0	WESTBOUND	5.72										1								43.75	TRAILING
US-64	5+73	TAPERED TO GROUND	BURIED IN CUT	50.00	0	0	50.00	0	EASTBOUND	5.73										1								100.00	
US-64	5+81	TAPERED TO GROUND	BURIED IN CUT	50.00	0	0	50.00	0	EASTBOUND	5.81										1								50.00	TRAILING
US-64	5+93	BCT	BURIED IN CUT	50.00	0	0	25.00	0	WESTBOUND	5.93										1								50.00	
US-64	6+00	BCT	MFLEAT TL-3	39.70	25.00	0	25.00	0	EASTBOUND	6.00					1													50.00	
US-64	6+64	ANCHORED STUB	AT-1	6.25	0	12.50	50.00	0	WESTBOUND	6.64									1									68.75	TRAILING. USE 25' TRANSITION TO CREATE 13:1 NEEDED
US-64	6+66	BCT	MFLEAT TL-3	39.70	25.00	0	25.00	0	EASTBOUND	6.66					1													12.50	EXTEND TO SATISFY LON
US-64	6+73	TAPERED TO GROUND	BURIED IN CUT	50.00	25.00	0	50.00	0	EASTBOUND	6.73										1								68.75	TRAILING. USE 25' TRANSITION TO CREATE 13:1 NEEDED
US-64	6+92	ANCHORED STUB	CAT-1	6.25	18.75	0	50.00	0	EASTBOUND	6.92											1							75.00	TRAILING
US-64	7+19	BCT	MFLEAT TL-3	39.70	35.30	0	0	0	WESTBOUND	7.19					1													25.00	
US-64	7+21	BCT	MSKT TL-3	50.00	25.00	0	0	0	WESTBOUND	7.21						1												75.00	
US-64	7+24	CAT-1	MFLEAT TL-3	39.70	0	0	50.00	0	WESTBOUND	7.24					1													75.00	TRAILING. UPDATE ENTIRE SEGMENT TO MASH
US-64	7+27	BCT	MFLEAT TL-3	39.70	0	0	50.00	0	WESTBOUND	7.27					1													43.75	
US-64	7+29	BCT	MFLEAT TL-3	39.70	0	0	50.00	0	WESTBOUND	7.29					1													43.75	TRAILING
US-64	7+44	BCT	MFLEAT TL-3	39.70	25.00	0	50.00	0	WESTBOUND	7.44					1													68.75	USE 25' TRANSITION TO CREATE THE 13:1 NEEDED
US-64	7+55	BCT	MFLEAT TL-3	39.70	0	0	50.00	0	WESTBOUND	7.55					1													43.75	TRAILING
US-64	7+75	ANCHORED STUB	MSKT TL-3	50.00	25.00	0	50.00	0	EASTBOUND	7.75						1												75.00	TRAILING
US-64	7+77	STUB	MSKT TL-3	50.00	25.00	0	50.00	0	EASTBOUND	7.77						1												75.00	
US-64	7+95	TYPICAL END SHOE	B-83	0	0	0	50.00	25.00	EASTBOUND	7.95							1											25.00	TRAILING
US-64	7+95	TYPICAL END SHOE	B-83	0	0	0	50.00	25.00	WESTBOUND	7.95							1											25.00	