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200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO.	SHEET NO.
U-5873	3B-2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037923 ENGINEER FRANK D. MASTERSON, III
DocuSigned by: Frank Masterson 10/25/2023

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 032615 ENGINEER JASON D. LAWING
DocuSigned by: Jason Lawing 10/25/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

"N" = DISTANCE FROM FACE OF CURB TO FACE OF GUARDRAIL.
TOTAL BERM WIDTH = DISTANCE FROM FACE OF CURB TO HINGE 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

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM FOC	TOTAL BERM WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU, TL-2	B-77	TYPE III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG			
-Y2-	12+48.00	13+04.25	LT	56.25				12+98.00	0	4.5		25		0.5			1	1											
-Y2-	13+42.00	15+48.25	LT	206.25			13+56.00		0	4.5	25		0.5				1	1											
-Y2-	16+20.73	17+82.98	RT	162.25			15+95.00	17+94.00	0	16		25		0.5			2												3'-1.5" POST SPACING AT BRIDGE;
-Y5-	15+87.00	15+87.00	LT/RT	37.50																									NO L DISTANCE IS NEEDED ON
																													TRAILING END NCDOT RDM 3-2B
			SUBTOTAL	462.25																									
	LESS ANCHOR DEDUCTIONS																												
	GREU TL-2	4 @ 25'	=	100.00																									
	B-77	2 @ 18.75'	=	37.50																									
			TOTAL	324.75																									
			SAY	350																									
																	4	2											

ADDITIONAL GUARDRAIL POSTS = 5

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	STA 13+22.00	STA 14+76.00	LT	84
-L-	STA 14+63.00	STA 15+81.00	RT	338
-L-	STA 24+53.00	STA 26+18.00	RT	285
-Y1-	STA 11+04.00	STA 15+00.00	RT	679
-Y2-	STA 11+65.00	STA 11+88.00	LT	97
-Y2-	STA 11+89.00	STA 13+38.00	RT	312
-Y2-	STA 13+10.00	STA 20+00.00	LT	1132
-Y5-	STA 10+42.00	STA 11+76.00	LT	214
-Y6-	STA 10+11.00	STA 10+90.00	LT	116
TEMPORARY PAVEMENT FROM WZTC:				83
TOTAL:				3339
SAY:				3350

PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED SUMMARY

LINE	STATION TO STATION	LOCATION	LENGTH (LF)
-Y2-	STA 13+04.35 TO 13+42.03	LT	38
TOTAL			38
SAY			40

10/11/2023