COMPUTED BY: WDJ DATE: 5/15/2014
CHECKED BY: JWM DATE: 5/30/2014

PROJECT REFERENCE NO.	SHEET NO.
U-3315	3B-2

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

"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

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE 350			TERMINAL SECTIONS	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GRAU 350	M-350	TYPE III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG				
-L-	50+94.53	51+17.12	LT	37.50																							2			
-L-	51+96.26	52+24.54	LT	37.50																							2			
-L-	58+37.75	64+69.00	LT	631.25				59+00.00	14	17		50		1			1		1											
-L-	58+37.75	64+69.00	RT	631.25			59+00.00		14	17	50		1				1		1											
-L-	66+49.00	73+05.25	LT	656.25			72+50.00		14	17	50		1				1		1											
-L-	66+49.00	73+05.25	RT	656.25				72+50.00	14	17		50		1			1		1											
-L-	59+56.00	59+74.00	RT	25.00																							2			
-L-	60+18.00	60+34.00	RT	25.00																							2			
-L-	58+16.00	58+39.00	LT	25.00																							2			
-L-	61+30.00	61+50.00	LT	25.00																							2			
-L-	70+24.92	70+62.00	LT	37.50																							2			
-Y8-	10+91.00	11+08.00	RT	25.00																							2			
-Y18-	10+43.00	10+62.00	RT	37.50																							2			
-Y18-	10+68.00	10+87.00	RT	37.50																							2			
			SUBTOTAL	2887.5																										
	LESS ANCHOR DEDUCTIONS																													
	GRAU 350	4 @ 50'	=	200.00																										
	TYPE III	4 @ 18.75'	=	75.00																										
			TOTAL	2612.50													4		4								20			
			SAY	2650																										

ADDITIONAL GUARDRAIL POSTS = 15 EA

REMOVAL OF EXISTING ASPHALT PAVEMENT

LINE	STATION TO STATION	LOCATION	SQ. YDS.
-L-	11+32 TO 20+34	LT	413
-L-	21+40 TO 57+00	LT	3814
-L-	21+40 TO 57+00	LT/RT	4659
-L-	57+00 TO 73+56	LT/RT	849
-L-	73+66 TO 83+07	RT	4781
-Y6-	10+55 TO 11+35	RT	233
-Y7-	11+15 TO 18+31	LT	2067
-Y8-	10+43 TO 11+75	LT/RT	466
-Y9-	10+43 TO 12+54	LT/RT	266
-Y17-	10+26 TO 11+80	LT/RT	322
-Y18-	10+00 TO 10+92	LT/RT	460
-Y19-	12+07 TO 13+00	LT/RT	334
TOTAL			18,663
SAY			18,670

REMOVAL OF EXISTING CONCRETE PAVEMENT

LINE	STATION TO STATION	LOCATION	SQ. YDS.
-Y10-	12+55 TO 21+50	LT/RT	3907
-Y13-	8+80 TO 9+43	LT/RT	196
-Y13-	10+00 TO 10+25	LT/RT	92
-Y16-	10+24 TO 11+05	LT/RT	337
-Y20-	10+26 TO 11+80	LT/RT	3758
TOTAL			8,475
SAY			8,480

BREAKING OF EXISTING ASPHALT PAVEMENT

LINE	STATION TO STATION	LOCATION	SQ. YDS.
-L-	57+00 TO 64+69	LT/RT	1484
TOTAL			1484
SAY			1,500

ANTI-SEEP COLLAR

LINE	STATION	LOCATION	NO.
-L-	23+81	RT	1
-L-	25+80	RT	1
-L-	31+49	CL	1
-L-	50+34	RT	1
-L-	61+78	RT	1
-L-	75+06	LT	1
-L-	75+88	LT	1
-L-	79+97	RT	1
-L-	84+01	RT	1
-Y1-	22+39	LT	1
-Y1-	25+18	LT	1
-Y2-	14+28	RT	1
-Y2-	14+52	RT	1
-Y2-	15+97	RT	1
-Y7-	20+57	LT	1
-Y10-	15+81	RT	1
-Y11-	13+84	LT	1
-Y13-	11+81	LT	1
-Y14-	19+76	RT	1
-Y20-	17+25	RT	1
-Y20-	17+56	RT	1
TOTAL			21 EACH
SAY			200 CY

FOR PIPE DATA SEE DRAINAGE SUMMARY SHEETS

NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, REMOVAL OF EXISTING PAVEMENT, AND BREAKING OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."

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5/20/2015