

COMPUTED BY: JBG DATE: 06/11/03  
 CHECKED BY: DWG DATE: 1/24/04

PROJECT REFERENCE NO. U-3837  
 SHEET NO. 3-E

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

"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			REMOVE EXISTING GUARDRAIL	REMARKS				
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE 350	CAT-1	TYPE III	TYPE B-77	EA	G	NG								
-L-	17+49.40	20+11.90	LT.	262.50				17+50.00	7.5	14	325	243.75	6.5	4.875	1	1	1										400		
-L-	23+04.90	30+04.90	LT.	700			29+00.00		7.5	14					1		1										699		
-L-	46+00.00	48+00.00	LT.	200			47+00.00	46+00.00	14	14	50		1		1	1													
-L-	10+50.00	12+50.00	RT.	200			10+50.00		14	14	50		1		1	1													
-L-	15+86.57	19+86.57	RT.	400			17+00.00		7.5	14	375		7.5		1		1										352		
-L-	22+79.57	31+04.57	RT.	825				30+30.00	7.5	14		325	6.5		1	1												715	
-L-	18+80.00	19+87.17	MED. LT.	112.5				19+87.17	3	MEDIAN		93.75					1									1	1		
-L-	18+80.00	19+86.00	MED. RT.	112.5			19+86.00		2	MEDIAN	87.25						1												
-L-	23+04.19	24+94.00	MED. LT.	187.50			23+04.19		3	MEDIAN	78						1									1	1		
-L-	23+00.78	24+94.00	MED. RT.	200			23+00.78		2	MEDIAN		175					1												
-YI-	12+93.77	13+31.27	RT.	37.50				12+93.77																				323	
-YI-	11+15.02	11+90.02	RT.	75			11+90.02				50		1	1															
-YI-	11+21.50	11+59.00	MED. LT.	37.50			11+59.00																						289
-YI-	12+65.00	14+52.50	MED. LT.	187.50				12+65.00																					
-YI-	10+98.50	11+61.00	MED. RT.	62.50			11+61.00																						314
-YI-	12+66.50	14+04.00	MED. RT.	137.50				12+66.50																					
SUBTOTALS				3737.50											5	4	8	6								2	2	3092	
DEDUCTIONS FOR ANCHORS																													
5 GRAU-350 @ 50'				-250																									
4 CAT-1 @ 6.25'				-25																									
8 TYPE III @ 18.75'				-150																									
6 TYPE B-77 @ 18.75'				-112.50																									
PROJECT TOTALS				3200											5	4	8	6								2	2		
SAY				3250																									3100
ADDITIONAL GUARDRAIL POST 10 EA.																													

**SUMMARY OF "ASPHALT" PAVEMENT REMOVAL IN SQUARE YARDS**

LINE	STATION TO STATION	LOCATION	LENGTH	WIDTH	SQUARE YARDS
-L-	17+90.00 TO 19+91.00	LT & RT			115.74
-L-	16+55.00 TO 18+74.00	LT			30.52
-L-	23+05.00 TO 30+20.00	LT			436.43
-L-	27+27.00 TO 31+95.00	LT			39.56
-L-	33+86.00 TO 35+30.00	LT & RT			162.52
-L-	35+30.00 TO 37+50.00	LT & RT			586.3
-YI-	5+85.00 TO 18+35.00	RT	1250	10	1388.89
TOTAL					2759.96
SAY					2775

**SUMMARY OF "CHAIN LINK FENCE"**

LINE	STATION TO STATION	LOCATION	FABRIC (LF)	END BRACE	CORNER BRACE	LINE BRACE	LINE POST	TERMINAL POST
-L-	19+37.50 TO 20+14.00	LT.	110	1	1		10	2
-L-	15+55.00 TO 17+55.00	LT.	215		3		19	3
-L-	23+04.55 TO 23+55.00	LT.	120	1			10	1
-L-	22+79.80 TO 22+83.00	RT.	135	1	1		12	2
TOTAL			580				51	8

**SUMMARY OF "CONCRETE BARRIER"**

LINE	STATION TO STATION	LOCATION	TYPE A-77 BARRIER (LF)	TYPE T-77 BARRIER (LF)	TYPE M-XII BARRIER (LF)
-YI-	STA. 11+90 TO STA. 12+15	RT.	25		
-YI-	STA. 12+46 TO STA. 12+96	RT.		25	25
-YI-	STA. 11+61 TO STA. 11+86	MED. RT.		25	
-YI-	STA. 12+16.5 TO STA. 12+66.5	MED. RT.	25		25
-YI-	STA. 11+59 TO STA. 11+84	MED. LT.	25		
-YI-	STA. 12+15 TO STA. 12+65	MED. LT.		25	25
TOTAL			75	75	75
PROJECT TOTAL			225 LF		

**SUMMARY OF "WOVEN WIRE FENCE"**

LINE	STATION TO STATION	LOCATION	FABRIC (LF)	END BRACE	CORNER BRACE	LINE BRACE	4" POST	5" POST
-L-	14+08.00 TO 19+88.92	RT.	637	2	3	1	37	16
TOTAL			637				37	16

6/16/99  
 22 DEC 2004 12:24  
 RD212399  
 DWG Gardner