

COMPUTED BY: W.C. Parker, PE DATE: 11-3-2015
 CHECKED BY: _____ DATE: _____

PROJECT NO. W-5518 SHEET NO. 3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

In Cubic Yards							
Line	Station	Station	Uncl. Excav.	Undercut Excav.	Embank. +%	Borrow	Waste
-L-	12+20.00	22+98.27	479	251	57,990	57,598	338
-BRIDGE-							
-L-	25+14.46	36+50.00	322	165	69,654	69,332	165
TOTALS:			801	416	127,644	126,930	503
Placement of Surcharge					563	563	
Removal of Surcharge			450				450
Shoulder Material					1,058	1,058	
Select Granular Material to Replace Borrow					-875	-875	
Additional Undercut - Contingency				3,600	4,500	4,500	3,600
PROJECT TOTALS:			1,251	4,016	132,890	132,176	4,553
Est. 5% to replace topsoil on Borrow Pits							6,609
GRAND TOTALS:			1,251			138,785	4,553
SAY:			1,400			145,800	4,553

Est. Undercut Contingency: 3,600 Yd³
 Est. Undercut by Stations: 416 Yd³
Total Undercut Excavation: 4,016 Yd³

Est. Shallow Undercut Contingency: 1,000 Yd³

Select Granular Material - Backfill Undercut: 700 Yd³
 Select Granular Material - Contingency: 1,000 Yd³
Total Select Granular Material: 1,700 Yd³

Class IV Subgrade Stabilization Mat'l: 1,900 Tons

DDE: 4,524 Yd³

Pavement Structure Volume: 149.63 Yd³

Note: Earthwork quantities are calculated by the NCDOT Division 6. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

ASPHALT PAVEMENT REMOVAL SUMMARY

LINE	BEGIN STA	END STA	LOC	AREA FT ²	AREA Yd ²
-Y-	23+26	24+12	MED RT	401.68	44.63
-Y-	23+50	24+12	MED LT	309.67	34.41
-Y-	24+96	25+82	MED	1,008.74	112.08
-L-	13+50	14+50	CL	1,818.51	202.06
-L-	22+98	23+33	CL	3,854.23	428.25
-L-	24+79	25+14	CL	3,242.74	360.30
-L-	34+50	35+50	CL	1,770.41	196.71
				TOTAL	1,378.44
				SAY	1,450

ASPHALT PAVEMENT BREAKING SUMMARY

LINE	BEGIN STA	END STA	LOC	AREA FT ²	AREA Yd ²
-L-	14+50+/-	23+00+/-	CL	18,630.45	2,070.05
-L-	25+14+/-	34+50+/-	CL	19,746.04	2,194.00
				TOTAL	4,264.05
				SAY	4,480

DOUBLE FACED CABLE GUIDERAIL SUMMARY

LINE	STATION	STATION	LOCATION	LENGTH LF	ANCHORS
-Y-	13+24.90	23+55.01	RT	1,030.11	2
-Y-	25+53.09	35+85.03	LT	1,031.94	2
Guardrail Totals:				2,062	4
Deductions for Anchor Units				4	100
GUARDRAIL TOTAL:				1,962	
				SAY	1,990

Additional Guardrail Posts = 11

WOVEN WIRE FENCE SUMMARY

LINE	STA	STA	LT. OR RT.	A	B	C	D	E	F	
				FABRIC L.F.	END BRACE	CORNER BRACE	LINE BRACE	4" POSTS	5" POSTS	
-L-	32+94	35+00	LT	207.98	1	1	0	12	5	
				TOTAL	207.98	1	1	0	12	5
				SAY	210			13	6	

Additional Barbed Wire = 50'

SHOULDER BERM GUTTER SUMMARY

LINE	LOC	BEG. STA.	END STA.	LENGTH	
-L-	LT	22+59	22+93	34.0	
-L-	RT	22+59	22+76	17.0	
-L-	LT	25+37	25+54	17.0	
-L-	RT	25+20	25+54	34.0	
				TOTAL	102.0
				SAY	105