

COMPUTED BY: Monica Duval DATE: 7-26-2016 REV By WCP: 11/08/16
 CHECKED BY: _____ DATE: _____

PROJECT NO. R-5023B SHEET NO. 3B-2

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK (CUBIC YARDS)

Line	Station	Station	Uncl. Excav.	Undercut	Embank. +%	Borrow	Waste
-L-	11+50.00	41+50.00	5,368	0	2,154	0	3,214
-Y1-	10+17.34	10+80.00	181	0	1	0	180
-L-	41+50.00	71+50.00	3,882	227	1,803	0	2,307
-Y2-	1100	1363.86	198	0	116	0	82
-Y3-	1085	1149.12	19	0	13	0	7
SUBTOTAL #1			9,648	227	4,086	0	5,789
-Y4-	10+18.06	11+25.00	35	0	108	73	0
-L-	71+50.00	101+50.00	946	603	4,475	3,529	603
-Y5-	11+10.00	11+81.38	13	0	151	138	0
-Y6-	10+18.08	10+82.00	30	0	101	71	0
Detour (Gould Rd to Justice Rd)			1,110	0	0	0	1,110
-Y7-	12+54.00	13+06.63	11	0	81	70	0
SUBTOTAL #2			2,145	603	4,916	3,881	1,713
-Y7A-	11+00.00	11+62.19	71	0	13	0	59
-L-	101+50.00	104+25.00	48	71	770	722	71
-Y8-	11+50.00	12+12.05	31	0	91	60	0
SUBTOTAL #3			150	71	874	782	130
-L1-	14+40.00	28+00.00	2,101	1,080	1,983	0	1,199
-Y9-	12+75.00	15+57.28	239	0	804	565	0
SUBTOTAL #4			2,340	1,080	2,787	565	1,199
TOTALS			14,283	1,981	12,663	5,228	8,830
MATERIAL FOR SHOULDER CONSTR.			0	0	3,250	3,250	0
ADDITIONAL UNDERCUT			0	2,500	3,125	3,125	2,500
WASTE IN LIEU OF BORROW			0	0	0	-6,849	-6,849
PROJECT TOTALS			14,283	4,481	19,038	4,755	4,481
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT						238	
GRAND TOTALS:			14,283	4,481	19,038	4,992	4,481
SAY:			14,300	4,490	0	5,000	4,500

Est. DDE:	158	Yd ³	Est. Class IV Subgrade Stabilization (Geotech):	3,800	Tons
Est. Shallow Undercut (Geotech):	2,000	Yd ³	Est. Class IV Subgrade Stabilization by Station (Division):	3,800	Tons
Est. Shallow Undercut (Division):	2,000	Yd ³	Total Class IV Subgrade Stabilization:	7,600	Tons
Total Shallow Undercut =	4,000	Yd ³			

Note: Earthwork quantities are calculated by HNTB for Division 03. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Design Unit.

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

LINE	Station	Station	LOC LT/RT/CL	FT ²
-L1-	18+81.00	20+56.00	RT	3,293.00
TOTAL FT ²				3,293.00
TOTAL YD ²				365.89
SAY				400

SUMMARY OF SAFETY FENCE

STATION TO STATION	LOC	LENGTH (LF)
-L- 73+97.12 - 77+88.97	LT	414.30
-L- 84+53.59 - 87+72.46	LT	330.00
Safety Fence for Erosion Control		1,200.00
TOTAL:		1,944.30
SAY:		2,040

SUMMARY OF CONCRETE VALLEY GUTTER

STATION TO STATION	LOC	LENGTH (LF)
-L- 71+76 - 72+34	RT	58.3
-L- 72+72 - 73+22	RT	50.4
TOTAL:		108.7
SAY:		120

SUMMARY OF BONDED FIBER MATRIX

LINE	Station	Station	LOC LT/RT/CL	FT ²
-L-	11+90	13+40	LT	2,179.70
-L-	73+65	77+25	LT	2,075.33
-L-	86+75	88+25	LT	910.72
-L-	86+75	87+25	RT	624.42
-L-	88+25	89+25	RT	864.59
-L1-	21+25	22+25	LT	1,666.43
SubTotal:				8,321.19
For Slopes between 2:1 and 3:1, an application rate of 3,500 lb/ac shall be used as per special provision.				
			8,321.19	FT ²
			0.19	AC
			668.60	LB
SAY:			700	LB