

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

GUARDRAIL SUMMARY (LF)

"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

[illegible]

SUMMARY OF EARTHWORK (CY)

LOCATION	UNCLASSIFIED EXCAVATION	ROCK	UNDERCUT	EMBT + %	BORROW	WASTE
–L– 11 + 00.00 – 40 + 00.00	5,754			34,423	28,669	
–YI– 12 + 42.82 – 17 + 50.00	473			2,616	2,143	
SUBTOTAL	6,227			37,039	30,812	
–L– 40 + 00.00 – 59 + 61.75	25,913	12,000		14,064		11,849
SUBTOTAL	25,913	12,000		14,064		11,849
TOTAL	32,140	12,000		51,103	30,812	11,849
MATERIAL FOR SHOULDER CONSTRUCTION				924	924	
LOSS DUE TO CLEARING & GRUBBING	–4,000				4,000	
ADJUSTMENT FOR 'ORD' DITCH CALC. REMOVAL	–1,070				1,070	
WASTE IN LIEU OF BORROW					–11,849	–11,849
PROJECT TOTAL	27,070	12,000		52,027	24,957	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					1,248	
GRAND TOTAL	27,070	12,000		52,027	26,205	
SAY	27,500				26,500	

UNCLASSIFIED EXCAVATION – ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL:
 –L- 15+25 TO 18+25 (700 CY), –L- 41+75 TO 44+75 (1,000 CY), –L- 52+75 TO 58+25 – ACCEPTABLE
 DEGRADABLE ROCK (12,000 CY) PER GEOTECH.

TOTAL UNCLASSIFIED EXCAVATION – ACCEPTABLE = (13,700 CY)

UNDERCUT EXCAVATION (CONTINGENCY) = 4,000 CY
 SELECT GRANULAR MATERIAL (CONTINGENCY) = 3,100 CY
 SHALLOW UNDERCUT (CONTINGENCY) = 1,200 CY
 DRAINAGE DITCH EXCAVATION = 1,570 CY

NOTE: Earthwork quantities are calculated by the Engineer.
These earthwork quantities are based in part on subsurface data
provided by Schnabel Engineering.