DocuSign Envelope ID: 43C8863A-8161-44E7-AC04-6F4086B01476
W224L,1/28/2016,G:\Transportation\TR11.013.00 (U-2707 Idols Road)\U2707\Roadway\Proj\U-2707 guardrail_summary.xls

**COMPUTED BY:** *Tony Harris* **DATE:** *1-25-05*

**CHECKED BY:** *Davidian Byrd* **DATE:** *10/26/2015*

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| *U-2707* | *3B-2* |

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

# *GUARDRAIL SUMMARY*

"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 BEGIN

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

| SURVEY LINE | BEG. STA. | END STA. | LOCATION | LENGTH | | | WARRANT POINT | | "N" DIST. FROM E.O.L. | TOTAL SHOUL WIDTH | FLARE LENGTH | | W | | ANCHORS | | | | | | | | | IMPACT ATTENUATOR TYPE 350 | | SINGLE FACED CONCRETE BARRIER | REMOVE EXISTING GUARDRAIL | REMOVE & 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 | | G | NG | | | | |
| -L-/-Y- | 17+70.60 -L- | 16+42.76 -Y- | RT/RT | 212.5 | 37.5 | | 18+75 -L- | | 8 | 11 | 50 | - | 1 | - | | | 1 | | 1 | | | | | | | | | | |
| -Y-/-L- | 16+27.88 -Y- | 23+27.36 -L- | LT/RT | 225 | 50 | | | 22+00 -L- | 8 | 11 | - | 50 | - | 1 | | | 1 | | 1 | | | | | | | | | | |
| -L- | 34+75.00 | 44+75.00 | RT | 1000 | | | 35+75.00 | 43+75.00 | 8 | 11 | 50 | 50 | 1 | 1 | | | 2 | | | | | | | | | | | | |
| -L- | 72+11.54 | 87+74.04 | RT | 1562.5 | | | 87+74.04 | 92+45.00 | 8 | 11 | 50 | - | 1 | - | | | 1 | | 1 | | | | | | | | | | |
| -L- | 72+61.54 | 87+74.04 | LT | 1512.5 | | | 92+45.00 | 87+74.04 | 8 | 11 | 50 | - | 1 | - | | | 1 | | 1 | | | | | | | | | | |
| -L- | 92+45.12 | 95+32.62 | RT | 287.5 | | | 92+57.50 | 94+25.00 | 8 | 11 | - | 50 | - | 1 | | | 1 | | 1 | | | | | | | | | | |
| -L- | 92+45.12 | 97+82.62 | LT | 537.5 | | | 92+57.50 | 96+75.00 | 8 | 11 | - | 50 | - | 1 | | | 1 | | 1 | | | | | | | | | | |
| -Y- | 18+45.59 | 19+70.59 | RT | 125 | | | | 18+59.59 | 8 | 11 | - | 50 | - | 1 | | | 1 | | 1 | | | | | | | | | | |
| -Y-/-Y3- | 18+20.33 | 11+71.36 -Y3- | LT | 150 | 75 | | 18+20.33 | | 8 | 11 | - | 50 | - | 1 | | | 1 | | 1 | | | | | | | | | | |
| **PROJECT TOTAL** | | | | **5612.50** | **162.50** | | | | | | | | | | | | | | | | | | | | | | | | |
| LESS ANCHOR UNIT DEDUCTIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAU 350 | | 10 @50.00' | | 500.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TYPE III | | 8 @18.75' | | 150.00 | | | | | | | | | | | | | **10** | | **8** | | | | | | | | | | |
| **TOTAL** | | | | **4962.50** | **162.50** | | | | | | | | | | | | | | | | | | | | | | | | |
| **SAY** | | | | **4987.50** | **162.50** | | | | | | | | | | | | | | | | | | | | | | | | |
| **ADDITIONAL GUARDRAIL POSTS** | | | | **10.00** | | | | | | | | | | | | | | | | | | | | | | | | | |