

COMPUTED BY: Jinyoung Park DATE: 3/26/2018  
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(2-16-16)

|             |           |
|-------------|-----------|
| PROJECT NO. | SHEET NO. |
| R-3825B     | 3G-1      |

**STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS**

**SUMMARY OF SUBSURFACE DRAINAGE**

| LINE        | Station | Station | Location<br>LT/RT/CL | Drain Type*<br>UD/BD/SD | LF          |
|-------------|---------|---------|----------------------|-------------------------|-------------|
| L           | 41+75   | 43+25   | RT                   | UD                      | 150         |
| L           | 75+25   | 76+25   | LT                   | UD                      | 150         |
| L           | 79+75   | 82+25   | LT, RT               | UD                      | 500         |
| L           | 110+25  | 113+25  | LT, RT               | UD                      | 600         |
| L           | 234+25  | 236+25  | LT, RT               | UD                      | 400         |
| L           | 243+75  | 248+75  | LT, RT               | UD                      | 1000        |
| L           | 251+00  | 253+25  | LT, RT               | UD                      | 450         |
| L           | 255+25  | 257+75  | LT, RT               | UD                      | 500         |
| Y7          | 14+75   | 16+50   | LT, RT               | UD                      | 350         |
| CONTINGENCY |         |         |                      |                         |             |
|             |         |         |                      | UD                      | 2000        |
|             |         |         |                      | <b>TOTAL LF:</b>        | <b>6100</b> |

\*UD = Underdrain  
 \*BD = Blind Drain  
 \*SD = Subsurface Drain

**SUMMARY OF ROCK PLATING**

| LINE             | Beginning<br>Slope<br>(H:V) | Approx.<br>Station | Ending<br>Slope<br>(H:V) | Approx.<br>Station | Location<br>LT/RT | Rock<br>Plating<br>Detail No.<br>1/2/3/4 | Riprap<br>Class*<br>1/2/B | Rock<br>Plating<br>SY |
|------------------|-----------------------------|--------------------|--------------------------|--------------------|-------------------|--|---------------------------|-----------------------|
| L                | 2.5:1                       | 200+25 ±           | 2.5:1                    | 202+75 ±           | LT                | 2  | 1                         | 1400                  |
| L                | 2.5:1                       | 229+75 ±           | 2.5:1                    | 231+75 ±           | LT                | 2  | 1                         | 550                   |
| L                | 2.5:1                       | 231+25 ±           | 2.5:1                    | 232+75 ±           | RT                | 2  | 1                         | 600                   |
| L                | 2.5:1                       | 241+79 ±           | 2.5:1                    | 242+56 ±           | LT                | 1  | -                         | 110                   |
| <b>TOTAL SY:</b> |                             |                    |                          |                    |                   |  |                           | <b>2660</b>           |

\*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

**SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION**

| LINE                     | Station | Station | Aggregate<br>Type*<br>ASU/AST | Aggregate<br>Thickness<br>INCHES | Shallow<br>Undercut<br>CY | Class IV<br>Subgrade<br>Stabilization<br>TONS | Geotextile<br>for Soil<br>Stabilization<br>SY | Stabilizer<br>Aggregate<br>TONS | Class IV<br>Aggregate<br>Stabilization<br>TONS |
|--------------------------|---------|---------|-------------------------------|----------------------------------|---------------------------|---|---|---------------------------------|--|
| L                        | 81+75   | 83+75   | ASU                           | 12                               | 50                        | 100   | 300   |                                 |  |
| L                        | 89+75   | 94+75   | ASU                           | 12                               | 350                       | 600   | 1000  |                                 |  |
| L                        | 177+25  | 180+25  | ASU                           | 12                               | 200                       | 350   | 650   |                                 |  |
| L                        | 220+25  | 222+25  | ASU                           | 12                               | 200                       | 375   | 600   |                                 |  |
| L                        | 223+25  | 224+75  | ASU                           | 12                               | 150                       | 250   | 400   |                                 |  |
| L                        | 242+75  | 246+75  | ASU                           | 12                               | 600                       | 1100  | 2000  |                                 |  |
| L                        | 251+25  | 253+25  | ASU                           | 12                               | 200                       | 400   | 600   |                                 |  |
| Y6                       | 13+75   | 15+75   | ASU                           | 12                               | 100                       | 100   | 200   |                                 |  |
| Y13                      | 20+25   | 22+75   | ASU                           | 12                               | 100                       | 175   | 400   |                                 |  |
| CONTINGENCY              |         |         |                               |                                  |                           |   |   |                                 |  |
|                          |         |         | ASU                           | 12                               | 1000                      | 1500  | 3000  |                                 |  |
| <b>TOTAL CY/TONS/SY:</b> |         |         |                               |                                  | <b>2950</b>               | <b>4950</b>                                   | <b>9150**</b>                                 | <b>0</b>                        | <b>0</b>                                       |

\*ASU = Aggregate Subgrade  
 \*AST = Aggregate Stabilization  
 \*\*Total square yards of "Geotextile for Soil Stabilization" is only the estimated quantity for ASU/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

**SUMMARY OF GEOTEXTILE FOR  
PAVEMENT STABILIZATION**

| LINE             | Station   | Station   | OFFSET | SY           |
|------------------|-----------|-----------|--------|--------------|
| L                | 24+00.00  | 29+50.00  | LT     | 2322         |
| L                | 37+00.00  | 39+00.00  | LT     | 844          |
| L                | 48+75.00  | 50+25.00  | LT     | 767          |
| L                | 48+75.00  | 49+75.00  | RT     | 622          |
| L                | 57+75.00  | 62+50.00  | RT     | 2428         |
| L                | 66+25.00  | 67+25.00  | RT     | 622          |
| L                | 105+00.00 | 108+50.00 | LT     | 1906         |
| L                | 107+00.00 | 109+00.00 | RT     | 756          |
| L                | 112+75.00 | 115+25.00 | RT     | 1528         |
| L                | 127+25.00 | 129+00.00 | LT, RT | 833          |
| L                | 134+75.00 | 137+50.00 | LT, RT | 2750         |
| L                | 155+00.00 | 158+00.00 | LT, RT | 2467         |
| L                | 165+25.00 | 169+00.00 | RT     | 1875         |
| L                | 200+25.00 | 203+00.00 | LT     | 1161         |
| L                | 201+25.00 | 204+00.00 | RT     | 978          |
| L                | 230+00.00 | 232+25.00 | LT     | 625          |
| L                | 230+00.00 | 232+50.00 | RT     | 778          |
| <b>TOTAL SY:</b> |           |           |        | <b>23262</b> |