

COMPUTED BY: Paul ZhangDATE: 9/3/25

CHECKED BY: Kenny BusseyDATE: 9/3/25

(9-3-25)

PROJECT NO. SHEET NO.

R-5600 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-         | 26+00   | 26+76   | LT&RT                | SD                      | 200   |
| -L-         | 27+67   | 30+75   | LT&RT                | SD                      | 650   |
| -L-         | 33+75   | 34+75   | RT                   | SD                      | 100   |
| -L-         | 58+25   | 81+75   | LT&RT                | SD                      | 4700  |
| -L-         | 84+25   | 98+00   | LT&RT                | SD                      | 2800  |
| -L-         | 108+75  | 130+25  | LT&RT                | SD                      | 4300  |
| -L-         | 147+75  | 149+57  | LT&RT                | SD                      | 400   |
| -Y10-       | 10+38   | 12+50   | LT                   | SD                      | 250   |
| -DRWY3-     | 10+50   | 11+25   | LT                   | SD                      | 100   |
|             |         |         |                      |                         |       |
|             |         |         |                      |                         |       |
|             |         |         |                      |                         |       |
|             |         |         |                      |                         |       |
| CONTINGENCY |         |         |                      |                         | 2000  |
|             |         |         |                      |                         |       |
|             |         |         |                      | TOTAL LF:               | 15500 |
|             |         |         |                      |                         |       |

\*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-   | 1.5:1                       | 40+50              | 1.5:1                    | 41+68              | RT                | 1                                        |                           | 450                   |
| -L-   | 1.6:1                       | 108+00             | 1.6:1                    | 108+56             | LT                | 1                                        |                           | 110                   |
| -L-   | 1.5:1                       | 135+16             | 1.5:1                    | 135+72             | LT                | 1                                        |                           | 120                   |
| -Y6-  | 1.5:1                       | 13+76              | 1.5:1                    | 14+98              | RT                | 1                                        |                           | 450                   |
| -Y-   | 1.5:1                       | 16+14              | 1.5:1                    | 19+69              | RT                | 1                                        |                           | 4100                  |
| -Y9-  | 1.5:1                       | 13+75              | 1.5:1                    | 14+25              | LT                | 1                                        |                           | 100                   |
| -Y23- | 1.5:1                       | 10+50              | 1.5:1                    | 10+75              | LT                | 1                                        |                           | 50                    |
| -DR3- | 1.5:1                       | 10+50              | 1.5:1                    | 11+25              | RT                | 1                                        |                           | 100                   |
| -DR5- | 1.5:1                       | 11+50              | 1.5:1                    | 12+67              | RT                | 1                                        |                           | 410                   |
| -Y14- | 1.5:1                       | 11+75              | 1.5:1                    | 12+31              | LT                | 1                                        |                           | 110                   |
|       |                             |                    |                          |                    |                   |                                          |                           |                       |
|       |                             |                    |                          |                    |                   |                                          | TOTAL SY:                 | 6000                  |
|       |                             |                    |                          |                    |                   |                                          |                           |                       |

\*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(1/2)/<br>AST | Aggregate<br>Thickness<br>INCHES<br>[8" for<br>ASU(2)] | Shallow<br>Undercut<br>CY | Class IV<br>Subgrade<br>Stabilization<br>TONS | Geotextile for<br>Subgrade<br>Stabilization<br>SY | Stabilizer<br>Aggregate<br>TONS | Class IV<br>Aggregate<br>Stabilization<br>TONS |
|-------------|---------|---------|----------------------------------------|--------------------------------------------------------|---------------------------|-----------------------------------------------|---------------------------------------------------|---------------------------------|------------------------------------------------|
| -L-         | 27+67   | 30+25   | ASU                                    | 18                                                     | 740                       | 1420                                          | 1500                                              |                                 |                                                |
| -L-         | 34+25   | 35+25   | ASU                                    | 18                                                     | 350                       | 660                                           | 700                                               |                                 |                                                |
| -L-         | 39+25   | 40+75   | ASU                                    | 18                                                     | 250                       | 500                                           | 550                                               |                                 |                                                |
| -L-         | 102+75  | 103+75  | ASU                                    | 18                                                     | 150                       | 270                                           | 300                                               |                                 |                                                |
| -L-         | 116+25  | 119+75  | ASU                                    | 18                                                     | 650                       | 1300                                          | 1400                                              |                                 |                                                |
| -L-         | 122+75  | 125+25  | ASU                                    | 18                                                     | 560                       | 1100                                          | 1150                                              |                                 |                                                |
| -L-         | 128+25  | 129+25  | ASU                                    | 18                                                     | 180                       | 340                                           | 360                                               |                                 |                                                |
| -Y5B-       | 11+25   | 12+75   | ASU                                    | 18                                                     | 220                       | 410                                           | 440                                               |                                 |                                                |
|             |         |         |                                        |                                                        |                           |                                               |                                                   |                                 |                                                |
|             |         |         |                                        |                                                        |                           |                                               |                                                   |                                 |                                                |
|             |         |         |                                        |                                                        |                           |                                               |                                                   |                                 |                                                |
|             |         |         |                                        |                                                        |                           |                                               |                                                   |                                 |                                                |
| CONTINGENCY |         |         | ASU                                    | 18                                                     | 4600                      | 9050                                          | 9500                                              |                                 |                                                |
|             |         |         |                                        |                                                        |                           |                                               |                                                   |                                 |                                                |
|             |         |         | TOTAL CY/TONS/SY:                      |                                                        | 7700                      | 15050**                                       | 15900**                                           | 0                               | 0                                              |
|             |         |         |                                        |                                                        |                           |                                               |                                                   |                                 |                                                |

\*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)  
\*AST = Aggregate Stabilization  
\*\*Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.