

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS  
MATERIALS & TESTS UNIT

SOILS LABORATORY

M & T Form 503  
11-1-73

Ref. \_\_\_\_\_  
Proj. \_\_\_\_\_

REPORT ON SAMPLES OF \_\_\_\_\_

Project B-3664 County Henderson Owner \_\_\_\_\_

Date: Sampled 11/04 Received 11/23/04 Reported 11/30/04

Sampled from \_\_\_\_\_ By \_\_\_\_\_

Submitted by \_\_\_\_\_ 19 \_\_\_\_\_ Standard Specifications

TEST RESULTS

| Proj. Sample No.                        | SS-1            | SS-2             | SS-3             | SS-4            | SS-5             | SS-6             | SS-7           | SS-8             |
|---|-----------------|------------------|------------------|-----------------|------------------|------------------|----------------|------------------|
| Lab. Sample No. <u>A</u>                | <u>147707</u>   | <u>147708</u>    | <u>147709</u>    | <u>147710</u>   | <u>147711</u>    | <u>147712</u>    | <u>147713</u>  | <u>147714</u>    |
| Retained #4 Sieve %                     | —               | —                | —                | —               | —                | —                | —              | —                |
| Passing #10 Sieve %                     | <u>99.9</u>     | <u>90.2</u>      | <u>100</u>       | <u>99.8</u>     | <u>76.3</u>      | <u>76.7</u>      | <u>97.9</u>    | <u>67.6</u>      |
| Passing #40 Sieve %                     | <u>99</u>       | <u>79</u>        | <u>99</u>        | <u>99</u>       | <u>63</u>        | <u>62</u>        | <u>69</u>      | <u>48</u>        |
| Passing #200 Sieve %                    | <u>67</u>       | <u>38</u>        | <u>83</u>        | <u>56</u>       | <u>25</u>        | <u>26</u>        | <u>4</u>       | <u>19</u>        |
| Coarse Sand—2.0 to 0.25 mm. Ret. #60 %  | <u>2</u>        | <u>23</u>        | <u>3.0</u>       | <u>5</u>        | <u>31</u>        | <u>34</u>        | <u>69</u>      | <u>44</u>        |
| Fine Sand—0.25 to 0.075 mm. Ret. #270 % | <u>29</u>       | <u>24</u>        | <u>33</u>        | <u>34</u>       | <u>19</u>        | <u>21</u>        | <u>3</u>       | <u>18</u>        |
| Silt—0.075 to 0.005 mm. %               | <u>45</u>       | <u>51</u>        | <u>22</u>        | <u>53</u>       | <u>46</u>        | <u>43</u>        | <u>28</u>      | <u>36</u>        |
| Clay—Less than 0.005 mm. %              | <u>24</u>       | <u>2.0</u>       | <u>42</u>        | <u>8</u>        | <u>4.0</u>       | <u>2.0</u>       | <u>0</u>       | <u>2.0</u>       |
| Passing #10 Sieve %                     | —               | —                | —                | —               | —                | —                | —              | —                |
| Passing #200 Sieve %                    | —               | —                | —                | —               | —                | —                | —              | —                |
| L. L.                                   | <u>30</u>       | <u>35</u>        | <u>42</u>        | <u>42</u>       | <u>31</u>        | <u>26</u>        | <u>24</u>      | <u>26</u>        |
| P. I.                                   | <u>NP</u>       | <u>NP</u>        | <u>19</u>        | <u>NP</u>       | <u>NP</u>        | <u>NP</u>        | <u>NP</u>      | <u>NP</u>        |
| AASHTO Classification                   | <u>A-4(6)</u>   | <u>A-4(1)</u>    | <u>A-7-6(12)</u> | <u>A-5(4)</u>   | <u>A-2-4(0)</u>  | <u>A-2-4(0)</u>  | <u>A-3(0)</u>  | <u>A-2-4(0)</u>  |
| Texture                                 |                 |                  |                  |                 |                  |                  |                |                  |
| Station                                 | <u>22+14.24</u> | <u>22+14.24</u>  | <u>21+95.76</u>  | <u>21+59.24</u> | <u>19+75.76</u>  | <u>19+75.76</u>  | <u>19+98</u>   | <u>19+98</u>     |
| Note No. <u>OFF SET</u>                 | <u>16' LT</u>   | <u>16' LT</u>    | <u>16' RT</u>    | <u>16' LT</u>   | <u>16' RT</u>    | <u>16' RT</u>    | <u>12' LT</u>  | <u>12' LT</u>    |
| Depth (ft.)                             | <u>8.3-9.8</u>  | <u>18.3-19.8</u> | <u>3.3-4.8</u>   | <u>8.3-9.8</u>  | <u>23.5-25.0</u> | <u>38.5-39.4</u> | <u>8.4-9.9</u> | <u>23.4-24.9</u> |

cc:  $\frac{0}{6.2}$   $\frac{0}{1.0}$   $\frac{3.0}{8.5}$   $\frac{0}{4.4}$   $\frac{0}{0}$   $\frac{0}{0}$   $\frac{0}{0}$   $\frac{0}{0}$

Soils Engineer

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Sampled from \_\_\_\_\_ By \_\_\_\_\_

Submitted by \_\_\_\_\_ 19 \_\_\_\_\_ Standard Specifications

TEST RESULTS

| Proj. Sample No.                        | SS-9             |  |  |  |  |  |  |  |
|---|------------------|--|--|--|--|--|--|--|
| Lab. Sample No.                         | <u>147715</u>    |  |  |  |  |  |  |  |
| Retained #4 Sieve %                     | —                |  |  |  |  |  |  |  |
| Passing #10 Sieve %                     | <u>96.0</u>      |  |  |  |  |  |  |  |
| Passing #40 Sieve %                     | <u>84</u>        |  |  |  |  |  |  |  |
| Passing #200 Sieve %                    | <u>39</u>        |  |  |  |  |  |  |  |
| Coarse Sand—2.0 to 0.25 mm. Ret. #60 %  | <u>22</u>        |  |  |  |  |  |  |  |
| Fine Sand—0.25 to 0.075 mm. Ret. #270 % | <u>21</u>        |  |  |  |  |  |  |  |
| Silt—0.075 to 0.005 mm. %               | <u>55</u>        |  |  |  |  |  |  |  |
| Clay—Less than 0.005 mm. %              | <u>2.0</u>       |  |  |  |  |  |  |  |
| Passing #40 Sieve %                     | —                |  |  |  |  |  |  |  |
| Passing #200 Sieve %                    | —                |  |  |  |  |  |  |  |
| L. L.                                   | <u>34</u>        |  |  |  |  |  |  |  |
| P. I.                                   | <u>NP</u>        |  |  |  |  |  |  |  |
| AASHTO Classification                   | <u>A-4(1)</u>    |  |  |  |  |  |  |  |
| Texture                                 |                  |  |  |  |  |  |  |  |
| Station                                 | <u>19+43</u>     |  |  |  |  |  |  |  |
| Note No. <u>OFFSET</u>                  | <u>16' RT</u>    |  |  |  |  |  |  |  |
| Depth (ft.)                             | <u>18.1-19.6</u> |  |  |  |  |  |  |  |

cc:  $\frac{0}{1.0}$   $\frac{1.0}{1.0}$

Soils Engineer