Appendix C – Jurisdictional Streams, Wetlands, and Buffer Impacts Figures (C-1 through C-17)

C-1  Sheet Index: Impacts within and Outside of the Development Footprint

C-2  Wetland Areas XA and XB (Isolated) Impacts

C-3  Wetland Areas AA, Y, and Z Impacts

C-4  Wetland Area AB Impacts

C-5  Stream 8 Impacts

C-6  Stream 14A Impacts

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C-8  Wetland Area T (Wetland 5) Impacts

C-9  Bolin Creek and Stream 14B Impacts

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C-11 Wetland Area 3 Impacts

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<td>C-16</td>
<td>Wetland Area X &amp; Stream 5A Impacts</td>
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<td>C-17</td>
<td>Jordan Lake Buffer Rules Delineation Map</td>
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</table>
WETLAND AREA X

PROPOSED STORMWATER WETLANDS

WETLAND AREA XB (ISOLATED)

BLDG

PROPOSED RECREATION FIELD

BLDG

WETLAND AREA XA (ISOLATED)

WETLAND AREA XA TOTAL AREA 0.025 ACRES
WETLAND AREA XA IMPACT 0.025 ACRES
WETLAND AREA XB TOTAL AREA 0.060 ACRES
WETLAND AREA XB IMPACT 0.060 ACRES

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT
WETLAND AREAS XA AND XB (ISOLATED) IMPACTS

REVISED: 10.18.10

FIGURE C-2
FIGURE C-3

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT
WETLAND AREAS AA, Y, AND Z IMPACTS

REVISED: 10.18.10
CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT
WETLAND AREA AB IMPACTS

REVISED: 10.18.10

LEGEND

- WETLAND AREA
- WETLAND IMPACT AREA

FIGURE C-4

WETLAND AREA AB TOTAL AREA 0.572 ACRES
WETLAND AREA AB IMPACT 0.572 ACRES
Proposed Railroad Spur

Existing Railroad

Stream 14A

Proposed 36" Culvert

Impacted Length of Stream

Division of Water Quality Ephemeral/Intermittent Point

Existing Edge of Pavement

Legend:
- Jordan Lake Buffer: Zone 1
- Jordan Lake Buffer: Zone 2
- Jordan Lake Buffer Impact Area
- Stream Centerline
- Approximate Toe of Slope
- Construction Limits

Stream 14A Impacts:
- Zone 1 Impact: 0 SQ FT
- Zone 2 Impact: 0 SQ FT

Carolina North Individual Permit Application
Impacts Outside the Development Footprint
Stream 14A Impacts

Revised: 10.18.10

Figure C-6
NOTE: OWASA REQUIRE A 30' WIDE MAINTAINED EASEMENT. THE SEWER EASEMENT AT CHANNEL CROSSINGS IS 20' WIDE.

SANITARY SEWER SCALPING FORCE MAINS (30' WIDE CORRIDOR)

STREAM 14B

IMPACTED LENGTH OF STREAM

SANITARY SEWER SCALPING FORCE MAIN PUMP STATION - CONCEPTUAL

BOLIN CREEK

IMPACTED LENGTH OF STREAM

RAILROAD

BOLIN CREEK IMPACT 21 LF
ZONE 1 IMPACT 1809 SQ FT
ZONE 2 IMPACT 1205 SQ FT
STREAM 14B IMPACT 20 LF

LEGEND

JORDAN LAKE BUFFER: ZONE 1
JORDAN LAKE BUFFER: ZONE 2
JORDAN LAKE BUFFER IMPACT AREA
STREAM CENTERLINE

FIGURE C-9

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT
BOLIN CREEK AND STREAM 14B IMPACTS
REVISED: 10.18.10
Seawell School Road
Estes Drive
SANITARY SEWER SCALPING
FORCE MAINS (30' CORRIDOR)
EXISTING
EDGE OF
PAVEMENT
PROPOSED SIDEWALKS
IMPACTED LENGTH OF STREAM
PROPOSED BIKE LANES
PROPOSED TRAVEL LANES
WETLAND AREA 4
PROPOSED CULVERT EXTENSION AND HEADWALL
30" RCP
15" RCP
BOX CULVERT

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT
STREAM 2 IMPACTS

REVISED: 10.18.10

FIGURE C-10
PROPOSED STORMWATER WETLAND

WETLAND AREA 3

EXISTING EDGE OF PAVEMENT

PLAT BOUNDARY

PROPOSED BIKE LANE

TRAVEL LANES

PROPOSED SIDEWALKS

FIGURE C-11

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT
WETLAND AREA 3 IMPACTS

REVISED: 10.18.10

LEGEND

WETLAND AREA
WETLAND IMPACT AREA
APPROXIMATE TOE OF SLOPE
CONSTRUCTION LIMITS

WETLAND AREA 3 TOTAL AREA 0.011 ACRES
WETLAND AREA 3 IMPACT 0.011 ACRES
**Legend**

- **Jordan Lake Buffer: Zone 1**
- **Jordan Lake Buffer: Zone 2**
- **Jordan Lake Buffer Impact Area**
- **Wetland Area**
- **Wetland Impact Area**
- **Stream Centerline**
- **Approximate Toe of Slope**
- **Construction Limits**

### Figure C-14

**Wetland Areas 17 & 18 and Stream 13 Impacts**

- **Stream 13 Impact**: 60 LF
- **Zone 1 Impact**: 3700 SQ FT
- **Zone 2 Impact**: 1915 SQ FT
- **Wetland Area 17 Total Area**: 0.067 Acres
- **Wetland Area 17 Impact**: 0.023 Acres
- **Wetland Area 18 Total Area**: 0.065 Acres
- **Wetland Area 18 Impact**: 0.065 Acres

**Revision Date**: 10.18.10

**Carolina North Individual Permit Application**

**Impacts Outside the Development Footprint**

**Construction Limits**

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**Estes Drive**

**Proposed Sidewalk**

**Existing Edge of Pavement**

**Wetland Area 17**

**Wetland Area 18**

**Stream 13**

**Impacted Length of Stream**
**Table:**

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<th>Impact Type</th>
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<td>Zone 2 Impact</td>
<td>3110 SQ FT</td>
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<td>Wetland Area X Total Area</td>
<td>0.143 ACRES</td>
</tr>
<tr>
<td>Wetland Area X Impact</td>
<td>0.143 ACRES</td>
</tr>
</tbody>
</table>

**Legend:**
- CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
- IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT
- WETLAND AREA X & STREAM 5A (ISOLATED) IMPACTS

**Figure C-16:**
- Stream 5A (Isolated)
- Proposed Stormwater Wetlands
- Impacted Length of Stream
- Wetland Area X
- Proposed Recreation Fields

**Revision Date:** 10.18.10