September 7, 2017

ESO Internal Guidance: 401/404 Permit Drawing Levels/Layers

In an effort to improve consistency and more accurately depict impacts to streams and wetlands on permit drawings ESO Permitting Division is implementing new standards for permit drawings. For all future permit applications permit drawings will rely on a reduced number of line levels from the roadway/bridge design file.

Specifically, SCDOT requires the following items (at minimum) to be depicted on permit drawings:

- Existing roadway
- Existing bridge
- Existing centerline
- Proposed roadway
- Proposed bridge
- Proposed centerline
- Roadway station numbers
- Proposed Bridge Construction Areas
- Bridge Plan/Profile
- Proposed Construction limits – areas of proposed cut/fill activities
- Clearing limits – area between NPDES line and construction limits; Bridge Construction Access areas
- Proposed pipes or culverts in wetlands/streams
- Proposed riprap in wetlands/streams
- Labeled cross sections – include label and stationing on the cross section sheet

ESO Permitting Coordinators must recognize that each project is unique and that additional items may be required to accurately depict the proposed impacts for a specific project.

A link to the SCDOT CADD Standards Manual is provided below. Pages 25-37 provide the level name and a short description. Additionally pages 215-220 provide Environmental specific standards.


Examples of line levels that may be used to depict existing/proposed road or bridge features and levels used to determine impact locations:

- RD_PD_ALT1_TrvlWay
- RD_PD_BCA
- RD_PD_Bridge
- RD_PD_CstnLmt
- RD_PD_DR_ErosCtrl
- RD_HC_Data_Tic
- RD_EX_Bridge
- RD_EX_Conc
- RD_EX_RailRoad
- RD_EX_Road
- RD_HC_CI
- RD_PD_DR_Pipe

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855-GO-SCDOT (855-467-2368)
Example of Permit Drawings (1)
Total Project Impacts
Total Project Area: 9.48 acres
Total Fill Impact: 2.705 acres
Total Clearing Impact: 0.282 acres
SC 165 Bridge Replacements over Caw Caw Swamp
SCDOT - Bridges 2 & 3
Charleston County, South Carolina

Project Totals
Total Project Area: 9.48 acres
Total Fill Impact: 2.705 acres
Total Clearing Impact: 0.282 acres
Total Fill to be Removed: 1.71 acres

Location Point
Bridge 1
Bridge 2
Bridge 3
Center Point of Existing Bridge 3
(32.799401, -80.269192)
Center Point of Existing Bridge 2
(32.797991, -80.268050)
Center Point of Existing Bridge 1
(32.793392, -80.264338)
Center of Shileagh
Oaks Parkway
(32.793392, -80.264338)

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION
SC 165 Bridge Replacements over Caw Caw Swamp
SCDOT - Bridges 2 & 3
Charleston County, South Carolina

1 inch = 100 feet

Project Totals
- Total Fill Impact: 2.705 acres
- Total Clearing Impact: 0.282 acres
- Total Fill to be Removed: 1.71 acres

Center Point of Existing Bridge 3
(32.799401, -80.269192)
Fill to be Removed
(0.037 acres)

Center Point of Existing Bridge 2
(32.797991, -80.268650)
Fill to be Removed
(0.073 acres)

Fill to be Removed
(0.342 acres)

Fill to be Removed
(0.041 acres - Clearing)

Fill to be Removed
(0.041 acres - Clearing)

180
185

Matchline 1

Matchline 2

Temporary Clearing Impact
Permanent Fill Impact
Project Boundary
Wetland
Fill to be Removed
Location Point

Totals: Sheet 4
- Fill Impact: 0.709 acres
- Clearing Impact: 0.041 acres
- Total Impacts to WoUS: 0.75 acres
- Total Fill to be Removed: 0.502 acres

SAC #:
Applicant: SCDOT
Prepared by: B. Crooks (CEG)
Map Date: 6/17/2016

Sheet No. 4 of 10
SC 165 Bridge Replacements over Caw Caw Swamp
SCDOT - Bridges 2 & 3
Charleston County, South Carolina

Wetland Impact Area A6 (0.042 acres - Clearing)

Fill to be Removed (0.423 acres)

Wetland Impact Area A3 (0.592 acres - Fill)

Note: The project area was originally approved under JD SAC 2015-1623-DJM and included area up to road Station 194+00. Actual impacts for this project will stop at Sta 193+00.

Project Totals
Total Fill Impact: 2.705 acres
Total Clearing Impact: 0.282 acres
Total Fill to be Removed: 1.71 acres

Totals: Sheet 5
Fill Impact: 0.592 acres
Clearing Impact: 0.042 acres
Total Impacts to WoUS: 0.634 acres
Total Fill to be Removed: 0.423 acres

SAC #: Applicant: SCDOT
Prepared by: B. Crooks (CEG)
Map Date: 6/17/2016

Sheet No. 5 of 10
SC 165 Bridge Replacements over Caw Caw Swamp
SCDOT - Bridges 2 & 3
Charleston County, South Carolina

Bridge 3 Plan and Profile Sheet
## SC 165 Bridge Replacements over Caw Caw Swamp

**SCDOT - Bridges 2 & 3**

**Charleston County, South Carolina**

**Bridge 2 Plan and Profile Sheet**

### SAC #: SCDOT

**Applicant by:** B. Crooks

**Map Date:** 6/17/2016