City of Beaufort Presentation to Beaufort County Stormwater Board

February 1, 2012
Primary Goals For Stormwater Control In The City Of Beaufort

- December 2009 – Adopted Comp Plan – In part address protecting and improving water quality.
- Cooperate with the Northern Beaufort County Local Governments to Adopt a Transect-Based Best Management Practices (BMP’s) Manual.
- Revise current development regulations/incentivize low impact development using the light imprint handbook.
Primary Goals For Stormwater Control In The City Of Beaufort

* Develop regional small area stormwater plans.
* Implement the recommendations of the Beaufort County Special Area Management Plan (SAMP).
* Adopt baseline standards for critical line setbacks and natural vegetative buffers.
Primary Goals For Stormwater Control In The City Of Beaufort

* Develop a specific water quality management plan for the Battery Creek watershed.
Municipal Stormwater Policy

* February 2010 – Adopted Joint City-Town-Municipal Stormwater policy.
* Recognizes the need to coordinate stormwater and land use goals.
* Also acknowledges “one-size” solution is not appropriate for complex urban environment.
Municipal Stormwater Policy (Continued):

* A Unified Stormwater ordinance would address both water quality and quantity issues in the context of community design.
* Establishes that a sustainable land use model is the first BMP.
Primary Goals For Stormwater Control In The City Of Beaufort

Municipal Stormwater Policy (Continued):

- Will be based on transect model, with rural conditions having different BMP controls than suburban and urban areas.
- This would allow for new developments to have distinct standards from redevelopment projects.
Redevelopment Transect Matrix
<table>
<thead>
<tr>
<th>Typical Conditions</th>
<th>T1/T2</th>
<th>SD</th>
<th>T3 Greenfield</th>
<th>T3 Infill</th>
<th>T4/T5 Greenfield</th>
<th>T4/T5 Redevelopment District</th>
<th>Redevelopment Site (under 4 acres)</th>
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</thead>
<tbody>
<tr>
<td><strong>Nutrient Removal</strong></td>
<td>n/a</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>Beaufort Plaza</td>
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<tr>
<td><strong>Sediment Control</strong></td>
<td>n/a</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>Generally City/Town Responsibility (CIP) Partnership with City/Town/Developer to determine reasonable controls based on management practices in place</td>
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<tr>
<td><strong>Volume/Rate Control</strong></td>
<td>n/a</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>Partnership with City/Town/Developer to determine reasonable controls based on management practices in place</td>
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City of Beaufort
Stormwater Projects

Partial Capital Project List (Completed)

- Depot Road (completed)
- Duncan/Langhorne (completed)
- The Point/Federal Street (completed)
- Battery Shores (completed)
- Water’s Edge (completed)
Partial Capital Project List (Completed Cont)

* Stone Martin Drive (completed)
* Stone Martin Circle (completed)
* Dr. Sherman/Johnnie Morrall (Phase 1 completed)
* North Hermitage Road (design completed)
Three (3) Major Capital Projects Recap:
- Duncan Langhorne ($650,000)
  (4500 lf. 15” to 54” pipes + 40 structures)
- Depot Road ($800,000)
  (3800 lf. 18” to 48” pipes + 45 structures)
- The Point Pond Reconstruction With Flood Control Gate ($200,000)
Duncan/Langhorne
Construction Cost: $650,000
Depot Road
Construction Cost: $800,000
The Point Pond Reconstruction with Flood Gate Control
Construction Cost: $200,000
The Point Pond Flood Gate
The Point Pond
City of Beaufort Small Capitalized Stormwater Projects

- Ditch cleaning in various neighborhoods.
- Outfall maintenance.
- Drainage pond maintenance.
- City wide catch basin maintenance.
- Total Cost: $322,000
Previous Condition at North Royal Oaks Drive
Improved Condition at North Royal Oaks Drive
Previous Condition at West Royal Oaks Drive
Improved Condition at West Royal Oaks Drive
Outfall Restoration
Outfall Restoration
Water’s Edge Subdivision Pond Restoration
Construction Cost: $35,000
Water’s Edge
Battery Shores Subdivision Pond and Pipe Installation
Construction Cost: $115,000
Battery Shores
Battery Shores
Stone Martin Subdivision Outfall Replacement
Construction Cost: $60,000
Summary

Short Term Goals and Regional Coordination:

* Continue to participate countywide water quality monitoring program.
* Develop Stormwater Form Based Code
Short Term Goals and Regional Coordination:

*(MS4) – Minimum water quality control measures*

*(MCM) No.1 – Public Education and Outreach Program*

*(MCM) No.2 – Public Involvement and Participation*
Intermediate Goals:

- *(MCM) No. 3 – Map out illicit discharge system.*
- Develop five (5) year Battery Creek Restoration plan with Beaufort County and the Town of Port Royal.
- Finalize *(IGA)* between the City and County.