

**APPENDIX E**

**CITY AND COUNTY STORMWATER REGULATIONS**

**Comparison of City and County Criteria  
For Stormwater Management – Water Quality**

|  | <b>City Criteria</b>  | <b>County Criteria</b>  | <b>Higher</b> |
|--|---|---|---------------|
| Volume and Recovery  | Off-line Retention<br>Volume – at least 0.75” of runoff<br>Recovery – 72 hrs.                                   | Retention<br>Volume – runoff from first 1” rain<br>(or 0.5” runoff if DA < 100 ac.)<br>Recovery – 72 hrs.   | City          |
| General Locations  | Online same as Detention w/filtr.   |   |               |
| (For City – this is also requirements for major roadway projects.) | Detention w/Filtration<br>Volume – at least the 1.125”runoff<br>Recovery – 72 hrs. (no SF mentioned)            | Detention w/Filtration<br>Volume – runoff from first 1” rain<br>(or 0.5” runoff if DA < 100 ac.)<br>Recovery – 36 hrs. (or SF = 2)  | City          |
|  | Wet Detention<br>Volume – runoff from first 3” rain<br>Recovery – No more than half discharged in first 60 hrs. | Wet Detention<br>Criteria in FL. Development Manual?  | City          |
| Volume and Recovery  | Same as above for General Locations.  | Off-Line Retention<br>Volume – 50% runoff of first 3” rain<br>(or 0.75” runoff if DA < 100 ac.)<br>Recovery – 72 hrs.   | About Same    |
| Bradford Brook Chain of Lakes WS                                   |   | On-Line Retention or Detention w/Filtration<br>Volume – 75% runoff of first 3” rain<br>(or 1.125” runoff if DA < 100 ac.)<br>Recovery – 72 hrs.<br>36 hrs. (or SF = 2) for filtration | About Same    |
|  |   | Wet Detention<br>Volume –runoff from first 3” rain<br>(or 1 1/2” runoff if DA < 100 ac.)<br>Recovery – Top half in 60 hrs, bottom half in 60 hrs or more                              | About Same    |
| General Requirements   | Facility must remain fully functional during the 25 yr. flood.  | Facility must remain fully functional during the 25 yr. flood.  | Same          |
|  | Quality volume based on total drainage area to facility   | Quality volume based on total drainage area to facility   | Same          |

### Comparison of City and County Criteria For Stormwater Management – Attenuation

|                            | City Criteria   | County Criteria   | Higher     |
|----------------------------|---|---|------------|
| Stormwater Attenuation     | Rate Control – limit post-dev. discharge rates to pre-dev. peak rates for all duration storms with frequencies to the 25 yr   | Rate Control – limit post-dev. discharge rates to pre-dev. peak rates for all duration storms with frequencies to the 25 yr                             | Same       |
|                            | For Major Roadway Projects: Predevelopment runoff shall presume natural and undeveloped conditions.   | Allowable Discharge for Redevelopment – assume natural conditions. (CN = 45 for sand, CN = 60 for clay)   | About Same |
| Limits of Analysis         | Limits of Analysis: point where runoff from site for pre-dev. conditions is 2.5% of the total flow. (Can be eliminated by restricted discharge of 25 yr post to 2 yr pre. | Downstream Analysis to point of 2.5% of discharge. No impacts up to 25 yr. – Restricted Discharge limit 25 yr. post Q to 2 yr. pre Q if problems exist. | About Same |
| Other SWMF Design Features |   | Trash Screen  | County     |
|                            | 50 year design life for components  | 50 year design life for components  | Same       |
|                            | Overflow – 100 yr event.  | Overflow system – design for up to 100 yr event.  | Same       |
|                            | Freeboard – 1' from peak of design storm  |   | City       |

### Comparison of City and County Criteria For Tree Protection

|                 | City Criteria  | County Criteria   | Higher |
|-----------------|--|---|--------|
| Protected Trees | Protected Trees<br>1. dogwood > 8" DBH<br>2. hardwood or long leaf pine > 12"<br>3. any > 18" DBH<br>4. any > 4" in lot perimeter zone<br>5. any patriarch tree<br>6. any on a canopy road zone<br>7. any in a wetland<br>8. any planted as tree mitigation<br>9. any exceptional specimen | Protected Trees<br>1. any > 12" DBH<br>2. any > 4" in lot perimeter zone<br>3. any on a canopy road zone<br>4. any planted as tree mitigation<br>5. any within cons./preserv. Area<br>6. dogwood > 8" DBH | County |
| Impact Area     | No impact within Critical Protection Zone (Radius of 1' for every 1" of DBH)   | No impact within 75% of Critical Protection Zone. (60% for roadway construction)  | City   |
| Fees            | Base fee of \$375 for first 100 trees + \$6.25 per tree > 100  | Base fee of \$95 for first 100 trees plus \$1.64 per tree in excess of 100 trees  | City   |

**Comparison of City and County Criteria  
For Conservation and Preservation Areas**

|                    | <b>City Criteria</b>  | <b>County Criteria</b>   | <b>Higher</b> |
|--------------------|---|--|---------------|
| Preservation Areas | <p>Preservation Areas:</p> <ul style="list-style-type: none"> <li>a. unaltered wetlands<br/>50' buffer required</li> <li>b. undisturbed floodplains</li> <li>c. native forests<br/>25' buffer required</li> <li>d. severe grades &gt; 20%</li> <li>e. endangered species habitat</li> <li>f. historical sites</li> </ul> <p>No development if suitable areas exist. Can develop 4000 sf per 40 ac.</p>  | <p>Preservation Areas</p> <ul style="list-style-type: none"> <li>a. wetlands<br/>20' (min.) buffer. 50' for lakes</li> <li>b. floodplains</li> <li>c. native forests<br/>20' buffer</li> <li>d. severe grades &gt; 20%</li> <li>e. areas of environmental signif. (springs and other active karst)<br/>35' buffer, FAC 62-520-420</li> </ul> <p>No development if suitable areas exist. Can develop 5%.</p>                                    |               |
| Conservation Areas | <p>Conservation Areas</p> <ul style="list-style-type: none"> <li>a. altered wetlands<br/>roads on piles unless no effect on circulation</li> <li>b. altered floodplains<br/>compensating volume required</li> <li>c. closed basins</li> <li>d. significant grades &gt; 10%</li> <li>e. high qual. successional forest<br/>develop 4000 sf per 2 ac.<br/>25' buffer required</li> <li>f. active karst features</li> <li>g. canopy roads</li> <li>h. special development zones</li> </ul> <p>Can develop 4000 sf per acre</p> | <p>Conservation Areas</p> <ul style="list-style-type: none"> <li>a. degraded wetlands</li> <li>b. altered floodplains</li> <li>c. altered floodways</li> <li>d. altered watercourses</li> <li>e. high qual. successional forest</li> <li>f. significant grades &gt; 10%</li> <li>g. closed basins</li> <li>h. historical sites</li> </ul>  |               |
| Wetlands           | <p>Unaltered:<br/>4000 sf per 40 ac. (0.2%)<br/>50 ft. buffer</p> <p>Altered:<br/>4000 sf per ac. (9%)</p> <p>Roads on piles unless no effect on circulation.</p>   | <p>Wetlands – no alterations to natural fluctuations of water levels or flows.</p> <p>Roads limited to 5% of total wetland area on project. Elevated on piers or otherwise constructed not to impede or restrict circulation. Demonstrate maintaining existing flow patterns and minimizing water level changes within 0.1 foot.</p> <p>20' buffer</p> <p>Lakes – 50' buffer (includes tributaries). 100 yr floodplain only 5% development</p> | City          |

**Comparison of City and County Criteria  
For Conservation and Preservation Areas – Continued**

|             | <b>City Criteria</b>   | <b>County Criteria</b>  | <b>Higher</b> |
|-------------|--|---|---------------|
| Grades      | <p>No change to severe grades (&gt; 20%).</p> <p>No more than 50% of significant grades (&gt; 10%)</p>   | <p>No change to severe grades (&gt; 20%).</p> <p>No more than 50% of significant grades (&gt; 10%)</p> <p>Exemption w/limits available for roads</p>  | Same          |
| Floodplains | <p>No changes to undisturbed floodplains.</p> <p>Changes allowed in altered floodplains with following limitations:<br/>1) Compensation or compensating volume provided.<br/>2) lowest floor elevation of structures 2' above 100 yr.</p> <p>(No frequency associated with compensating volume – does this imply thru 100 yr?)</p> | <p>Changes only to altered floodplain. Develop up to 5% of unaltered floodplain.</p> <p>Limitations: 1) no increase in stage offsite 2) no degradation of wetlands onsite 3) no increase of velocity in stream beds.</p> <p>Flood plain – 1) &lt; 0.5' for 10 yr, &lt; 1' for 100yr., and 1' below upstream buildings for full basin buildout 2) comp vol. for fill in 10 yr floodplain</p> | About Same    |

**Comparison of City and County Criteria  
For Special Development Zone for Bradford Brook**

|                          | <b>City Criteria</b>  | <b>County Criteria</b>  | <b>Higher</b> |
|--------------------------|---|---|---------------|
| Special Development Zone | <p>Zone A – Below El. 40<br/>Clearing, soil disturbance, and building limited to greater of 4000 sf or 5% of Zone A. Protect vegetation in a natural state from waters edge or NHW line to a min. of 50 ft upland from el. 35 NGVD.</p> | <p>Zone A – Below El. 40<br/>Clearing, soil disturbance, and building limited to greater of 4000 sf or 5% of Zone A. Protect vegetation in a natural state from waters edge or NHW line to a min. of 50 ft upland from el. 35 NGVD.</p> | Same          |
|                          | <p>Zone B – between El 40 and 60<br/>50% shall remain natural and unaltered.</p>  | <p>Zone B – between El 40 and 60<br/>50% shall remain natural and unaltered.</p>  | Same          |