



WASHINGTON COUNTY
LAND DEVELOPMENT ENGINEERING

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MEMORANDUM

TO: All Interested Parties

FROM: Jennifer Smith, P.E, Deputy Director, DPW

DATE: September 28, 2009

RE: **Technical Memo No. 15**
Minimum Requirements for Submission of Cost Estimates for SWM
Performance Securities

This Technical Memorandum describes the minimum requirements for submittal of a cost estimate for the purposes of preparing a performance security under the requirements of the Washington County Stormwater Management Ordinance. Cost estimates are required to be submitted to and approved by the Department of Land Development prior to issuance of a grading permit. Please be advised that contractor construction bids will not be accepted as an alternative to meeting these requirements.

Minimum cost estimate submission requirements:

1. The developer or their authorized representative shall submit a written cost estimate prepared by a Maryland Registered Professional Engineer. The engineer's cost estimate must be on a company letterhead that includes company address, phone number or by e-mail that shows official company address. The cost estimate must be signed and sealed by the Maryland Registered Engineer who prepared the estimate.
2. The construction cost estimate shall be an amount equal to 100 percent of the cost of construction of the required stormwater management improvements shown on the approved construction drawings, plat or site plan plus an additional 15 percent administrative fee.
3. The construction cost estimate shall include a break down of line items per the attached form and all back up quantities.
4. Back up quantities shall be provided to describe each item, unit cost, total quantity, and total cost for each item.

5. For SWM performance securities, back up quantities shall include, but shall not be limited to, the following items:
 - a. Clearing & Grubbing
 - b. Grading
 1. Excavation
 2. Borrow
 3. Topsoil
 4. Clay Backfill for Core Trench and Clay Core
 - c. Utility Relocation
 - d. Control Structure
 1. Riser structure (Break down by structure type, size and material)
 2. Principal Spillway Pipe
 3. Anti-seep Collar
 4. Concrete Cradle
 5. Sand Filter Diaphragm
 6. Trash Racks/Grating
 - e. Pipes and Under Drains (Break down by pipe size and material)
 - f. Endwalls, End Sections, Inlets & Manholes (Break down by structure type, size and material)
 - g. Swales, Ditches & Channels
 1. Excavation
 2. Solid Sodding
 3. Seeding & Mulching
 - h. Rip Rap & Stone
 1. Gabions (Break down by size and material)
 2. MSHA class riprap (Break down by class)
 3. No. 2 stone
 4. Geotextile (Break down by class)
 - i. Sod, Seeding & Mulching
 1. Topsoil – Placing Salvaged (by depth)
 2. Topsoil – Furnished & Placed (by depth)
 3. Temporary Seeding and Mulching
 4. Straw Mulching
 5. Solid Sodding
 6. Seeding
 7. Seeding & Mulching
 8. Soil Stabilization Matting (Miramat, Curlex, etc.)
 - j. Miscellaneous
 1. Stream Restoration Features (rock vane, log vane, root wad etc.)
 2. Stream Diversion and Dewatering
 3. Rain Garden (lump sum)

4. Bay Saver (lump sum)
5. Stormceptor (lump sum)
6. Filterra (lump sum)
7. Retaining Wall (break down by type, material, height, thickness)
8. Pea gravel
9. Sand
10. Planting Soils
11. Landscaping (Plantings; trees, shrubs, grasses, and mulching)
12. Security Fence and Gate (break down by height)
13. Paving (Access Apron)

To guarantee a timely review and processing of the grading permit application, please ensure that all information is provided in accordance with these minimum requirements. Should you have any questions, please feel free to contact me or Mr. John Swauger at 240-313-2400.

cc: Joe Kroboth, Director, DPW
John Swauger, Department of Land Development Engineering

Attachments