AS-BUILT STORMWATER MANAGEMENT CHECKLIST
STRUCTURAL BMPs (MD-378 ONLY)
(Please return this checklist with each re-submission)

Any major change or deviation from the original plan must be redesigned and revised plans and computations submitted to the Baltimore County Department of Environmental Protection & Sustainability (DEPS), and Baltimore County Soil Conservation District (BCSCD), prior to the performance of the work.

LEGEND:  
✓ ACCEPTABLE  X NOT ACCEPTABLE
R REQUIRED, NOT SUBMITTED  NA NOT APPLICABLE
INC INCOMPLETE  NC NOT CHECKED

1. SUBMISSION DOCUMENTS

_____ 1. Two (2) copies of As-built SWM plans.
_____ 2. Two (2) copies of As-built SWM report.
_____ 3. One (1) copy of ALL material supply tickets including:
   a. Pipes, watertight bands, etc.
   b. Concrete, porous concrete, etc.
   c. Gabions, riprap, etc.
   d. Filter media (planting soil, mulch, sand, #2 & #57 stone, pea gravel, etc.).
   e. Other man-made materials.
_____ 4. One (1) copy of compaction tests and any other pertinent Geotechnical data.
_____ 5. One (1) copy of daily inspection reports, if applicable (see below for a sample form)
   Note: Daily inspection reports must be complete and legible. Each sheet must be signed by the inspector, professional engineer and contractor representative.
_____ 6. SWM permit number.
_____ 7. Applicable EA number.
_____ 8. Photos showing the SWM facility during critical stages of construction.
_____ 9. Photos showing the complete view of the SWM facility verifying readiness for As-Built inspection.
II. PLAN REQUIREMENTS

A. Method & Certification
The following minimum information shall be shown in red on the approved stormwater management plans with "AS-BUILT" in the lower right corner of each sheet:

  1. A check mark (✓) shall be made beside planned values if they were the actual constructed values. For changed values, line out the planned value and enter the actual value (elevations to the nearest 0.1’ are sufficient).
  2. As-built certification is signed and sealed by a Professional Engineer.
  3. Tax account property number for Baltimore County in lower right of 1st As-Built plan sheet.

B. Plan View

  1. As-built contours (at no greater an interval than 2’) are shown in red with legible lettering.
     Note: As-built contours should be based on field run topography.
  2. Bottom of practice is dimensioned and as-built surface area noted, if applicable.
  3. Location of outfall pipe, underdrains and cleanouts are shown legibly; if applicable.
  4. As-built landscaping is shown and clearly labeled on the landscape plan view.
     Note: Trees are NOT allowed in the bottom of any SWM facility or within 25’ of the outlet structure and underdrains.
  5. Design summary table(s) have been updated to reflect as-built data.

C. Profile – along Center Line (CL) of Dam

  1. Top of constructed embankment elevation.
  2. Top of impervious core embankment (10-year DHW minimum, Unified Soil Classification GC, SC, CH or CL). Compaction meets SCS-MD 378 Specifications.
  3. Approximate bottom of cut-off trench (4ft. minimum or deeper if required, Unified Soil classification GC, SC, CH or CL). Compaction meets SCS-MD 378 Specifications.
  4. Principal Spillway location (station and elevation).
  5. Emergency or Token Spillway - location, bottom width and side slopes (in un-disturbed earth only).
  6. Verify minimum freeboard.

D. Profile – Principal Spillway

  1. Top of dam width and side slopes-must be equal to or flatter than design.
  2. Emergency or token spillway crest elevation.
  3. Top of impervious core embankment (10-year DHW minimum).
  5. High water elevations (As-Built) 1, 10, 100, & ultimate 100-year storms.
  6. Riser (Reinforced concrete or metal) - size, type, riser crest elevation, corrugation size, gauge.
  7. Low stage orifice-size, material, invert elevation.
  8. Low stage trash rack - size, material, dimensions.
  9. Low stage drain pipe - size, type, length, invert elevation; corrugation size, gauge.
 10. Barrel (Reinforced concrete or metal) - size, type, corrugation size, gauge, invert elevations (inlet and outlet), length, concrete pipe classification (B-25 or C-25).
 11. Concrete bedding (Concrete Pipes only) dimensions.
 12. Phreatic line (from 10 year DHW minimum).
 13. Anti-seep Collars (Reinforced concrete or metal), number, spacing, size, gauge.
(metal – same as barrel).

14. Outfall - type, material size, dimension, filter cloth.

15. As-Built Q’s and V’s for applicable storms.

E. Profile – Emergency or Token Spillway

1. Twenty five (25) foot minimum level section and elevation.

2. Slope protection - type, material size, dimensions, filter cloth.

3. Slope of exit section - may be 1-2% steeper, but no flatter than the design, and no narrower than the design.

F. Section – Emergency or Token Spillway (may be shown on dam profile)

1. Width of level section.

2. Dimensions, side slopes, material size.

G. Anti-seep Collars

1. Type, material, dimensions and detail updated where applicable.

H. Flow Splitter / Diversion Manhole

1. Type, elevations, dimensions and detail updated where applicable.

III. AS-BUILT STORMWATER MANAGEMENT REPORT

(Original approved stormwater management report should be redlined to reflect as-built data)

1. Elevation/storage chart(s) with as-built data.

2. Design summary table(s) updated.

3. Design computations updated including hydraulics (HY-8, TR-20, etc.).

4. Revised flow splitter / diversion manhole computations, if applicable.

IV. ADDITIONAL SUBMISSION DOCUMENTS

1. SWM data sheet with as-built data (1 for each facility) and summary SWM data sheet.

2. Three (3) pond summary sheets with As-Built corrections marked in red.

3. Existing and Proposed Drainage Area Maps must be included in the As-Built plan set. A digital version of the drainage area maps must also be submitted (CAD or GIS) to the project engineer as an electronic file (compressed .dwg, .dxf, .dgn, .shp or .gdb).

ADDITIONAL COMMENTS:


Plans reviewed by: ___________________________ Date: __________

Updated 10/01/18