# EROSION & SEDIMENT CONTROL ONLY

# DESIGN PLAN CHECKLIST

**The reasons for this check list are:**

1. **To guide the designer with developing a final plan level design drawings.**
2. **To guide the Baltimore City SWM/ESC Plans Review Section reviewers in their review.**

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| **PROJECT NAME:** |  | **ESD #:** |  |
| **PROJECT ADDRESS:** |  | | |

**LEGEND FOR REVIEW CHECKLIST**

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| Designer’s Submittal (D): | C – Complete | NA – Not Applicable |
| Reviewer’s Response (R): | Y - Acceptable | Inc- Incomplete |
|  | N- Not Acceptable | R – Required, Not Submitted |
| * Italicized items are specific to the Site Development Phase. | | |
| * Designer should highlight any changes since Site Development Phase submittal. | | |
| * All plans must be signed and sealed by a professional engineer, land surveyor, landscape architect, or architect registered in the State of Maryland. | | |

| **R** |  | **D** | **Content Description** | | | | | | |
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|  |  |  | 1. **Drainage Area Map** | **Sheet No.** | | | |  |
|  |  |  | 1. View area = min. 200 ft outside project or to the next conveyance system | | | | | |
|  |  |  | 1. Proposed limit of disturbance (LOD) | | | | | |
|  |  |  | 1. Proposed limit of work (LOW) if different from the LOD | | | | | |
|  |  |  | 1. Existing, interim, and proposed topography | | | | | |
|  |  |  | 1. Proposed improvements | | | | | |
|  |  |  | 1. Drainage area(s) limit and point(s) of discharge | | | | | |
|  |  |  | 1. Title Block(1) | | | | | |
|  |  |  | 1. General Plan Items (2) | | | | | |
|  |  |  | 1. **Existing Conditions Plan(3)** | | | **Sheet No.** | |  |
|  |  |  | 1. Topography with two-foot contours at a scale between 1” = 10’ to 1” = 50’ | | | | | |
|  |  |  | 1. Existing natural features | | | | | |
|  |  |  | 1. Water, streams, wetlands, wetland buffers and other sensitive resources | | | | | |
|  |  |  | 1. Drainage patterns | | | | | |
|  |  |  | 1. Buildings, roads, parking, and all other impervious area | | | | | |
|  |  |  | 1. Existing underground utilities (water, wastewater, gas, electric, conduit, etc.) | | | | | |
|  |  |  | 1. Highly erodible soils (Kf >0.35) | | | | | |
|  |  |  | 1. Bedrock outcrops | | | | | |
|  |  |  | 1. Steep Slopes ( >15%) | | | | | |
|  |  |  | 1. 100-year floodplain boundary | | | | | |
|  |  |  | 1. Critical Area boundary | | | | | |
|  |  |  | 1. General description of the predominant soil types, based available soil survey information | | | | | |
|  |  |  | 1. Title Block(1) | | | | | |
|  |  |  | 1. General Plan Items (2) | | | | | |
|  |  |  | 1. **Proposed Conditions Plan** | | | | **Sheet No.** |  |
|  |  |  | 1. Gray / screened copy of Existing Site Plan | | | | | |
|  |  |  | 1. Proposed final grading (topography with two-foot contours at a scale between 1” = 10’ to 1” = 50’) | | | | | |
|  |  |  | 1. Proposed buildings, roads, parking, and other impervious area | | | | | |
|  |  |  | 1. Proposed underground utilities | | | | | |
|  |  |  | 1. Proposed LOD and LOW | | | | | |
|  |  |  | 1. Proposed drainage features | | | | | |
|  |  |  | 1. All other proposed site features | | | | | |
|  |  |  | 1. Summary note of the LOD (area and volume) | | | | | |
|  |  |  | 1. Title Block(1) | | | | | |
|  |  |  | 1. General Plan Items (2) | | | | | |
|  |  |  | 1. **Proposed ESC Plan (4)** | | **Sheet No.** | | |  |
|  |  |  | 1. All items listed above for Proposed Conditions Plan | | | | | |
|  |  |  | 1. Proposed final grading (topography with two-foot contours at a scale between 1” = 10’ to 1” = 50’) | | | | | |
|  |  |  | 1. Interim contours for projects with more than minor grading | | | | | |
|  |  |  | 1. Cross-sectional profiles of grading (when applicable) | | | | | |
|  |  |  | 1. Proposed LOD and LOW | | | | | |
|  |  |  | 1. Interim LOD for interim phases | | | | | |
|  |  |  | 1. Storm drainage features | | | | | |
|  |  |  | 1. Existing and proposed bridges, storm drains, culverts, outfalls , etc. | | | | | |
|  |  |  | 1. Velocities and peak flows at outfalls for the 2-year and 10-year frequency storm events | | | | | |
|  |  |  | 1. Site conditions around points of all surface water discharge from the site | | | | | |
|  |  |  | 1. Location and extent of all stormwater conveyance systems | | | | | |
|  |  |  | 1. ESC practices, including: | | | | | |
|  |  |  | 1. The salvage and reuse of topsoil | | | | | |
|  |  |  | 1. Staging and stockpile areas | | | | | |
|  |  |  | 1. Phased construction and implementation of grading units | | | | | |
|  |  |  | 1. Location and type of all proposed sediment control practices | | | | | |
|  |  |  | 1. Design details for all ESC practices | | | | | |
|  |  |  | 1. Applicable design data (slope, drainage area, velocity, etc.) for all ESC practices, | | | | | |
|  |  |  | 1. Stabilization Schedule | | | | | |
|  |  |  | 1. Specifications for temporary and permanent stabilization measures, including, at a minimum: | | | | | |
|  |  |  | * 1. The “Standard Stabilization Note” | | | | | |
|  |  |  | * 1. Details for areas requiring accelerated stabilization | | | | | |
|  |  |  | * 1. Maintenance requirements as defined in the Standards and Specifications | | | | | |
|  |  |  | 1. Standard ESC notes | | | | | |
|  |  |  | 1. Sequence of Construction, including | | | | | |
|  |  |  | 1. Description of the relationship between the implementation of controls and maintenance of controls, including the permanent and temporary stabilization, and the various stages of phases of earth disturbance and construction | | | | | |
|  |  |  | 1. Other minimum requirements: | | | | | |
|  |  |  | * 1. Request for a pre-construction meeting with DPW by submitting “a written notification SWM/ESC Inspection Section at least 72 hours prior to the start of construction to the Department of Public Works’, Surface Water Management Division: 3001 Druid Park Drive, Room 228 Baltimore, MD 21215; Fax 410-523-9047; [swm@baltimorecity.gov](mailto:swm@baltimorecity.gov).” | | | | | |
|  |  |  | * 1. Clearing and grubbing as necessary for the installation of perimeter controls | | | | | |
|  |  |  | * 1. Construction and stabilization of perimeter controls | | | | | |
|  |  |  | * 1. Remaining clearing and grubbing within the installed perimeters | | | | | |
|  |  |  | * 1. Access road grading | | | | | |
|  |  |  | * 1. Grading for the remainder of the site | | | | | |
|  |  |  | * 1. Construction of the buildings and roads | | | | | |
|  |  |  | * 1. Other construction | | | | | |
|  |  |  | * 1. Final grading, landscaping, and stabilization | | | | | |
|  |  |  | * 1. Installation of stormwater management measures and systems | | | | | |
|  |  |  | * 1. Obtaining approval by DPW before removal of sediment controls | | | | | |
|  |  |  | * 1. Removal of sediment controls and stabilization of areas that area disturbed | | | | | |
|  |  |  | 1. Owner / developer certification statements: | | | | | |
|  |  |  | 1. “Any clearing, grading, or development will be done pursuant to the approved erosion and sediment control plan” | | | | | |
|  |  |  | 1. “The responsible personnel involved in the construction project will have, before the project begins, a Certificate of Training from an MDE approved training program for the control of erosion and sediment” | | | | | |
|  |  |  | 1. The City’s DPW and DHCD and MDE will be allowed right of entry for periodic on-site evaluation. | | | | | |
|  |  |  | 1. Signature and seal of a Professional Engineer, Land Surveyor, Landscape Architect, or Architect registered in the State of Maryland. | | | | | |

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| **NOTE:** |  | |
| (1) Title block should include:   * project name and address, * owners name and address, * applicant’s name and address, and * designer’s name, address and phone number * ESD# | | (2) General Plan Items:   * vicinity map at 1” = 2,000’ scale * parcel number (W, S, B, L) * scale and scale bar * north arrow * legend * parcel boundary with distances and bearings |
| (3) Existing Conditions Plan may be combined with Drainage Area Map, depending on complexity of project. | | |
| (4) Proposed Conditions Plan may be combined with Proposed ESC Plan, depending on complexity of project. | | |

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| SWMD Reviewer Name (signature): |  | |
| SWMD Reviewer Name (print): |  | (Date) |