***MDOT STATE HIGHWAY ADMINISTRATION – PLAN REVIEW DIVISION***

***Site Development ESC/SWM Plan Submission Review List***

**Administrative Requirements – Electronic Copies of the following in pdf format**

|  |  |  |
| --- | --- | --- |
|  | Site Development Plan |  |
|  | Site Development Report |  |
|  | Application for Sediment Control/Stormwater Management Plan Approval |  |

**Plan/Map Requirements**

(Refer to page 5.11 through 5.15 of SWM Design Manual and page A-14 through A-16 of ESC Standards & Specifications)

|  |  |  |
| --- | --- | --- |
|  | All items listed in Sediment and Stormwater Guidelines Section 7.4.B, D & E. |  |
|  | Title Sheet w/graphic scale and revision date  |  |
|  | Vicinity Map |  |
|  | Location Map |  |
|  | Existing site & resource mapping as listed on the Concept Plan requirements |  |
|  | SWM Plan with layout of proposed improvements |  |
|  | Property boundaries, Easements & R/W |  |
|  | Structural and construction details for Storm drains, open drainage, and SWM facilities including profile, x-sections, showing existing and proposed ground profiles, utilities and soils data etc. |  |
|  | Construction specifications (non-standard specifications only) |  |
|  | E&SC plan with interim & final grading , phasing, stabilization, sediment control measures and clear water diversions |  |
|  | E&SC plan overlay of ESD types and locations |  |
|  | Sequence of Construction for E&SC and SWM. The sequence of construction should allow the contractor as much flexibility in construction as possible without diminishing the effectiveness of the ESC plan.  |  |
|  | Notification of MDOT SHA’s QA Program |  |
|  | Clearing and grubbing for perimeter E&SC |  |
|  | Installation of perimeter E&SC |  |
|  | Clearing, grubbing and rough grading |  |
|  | Construction (indicate allowable concurrent activities clearly) |  |
|  | Final grading |  |
|  | Vegetative stabilization |  |
|  | Installation of stormwater management practices |  |
|  | Any MDOT SHA/QA approval required during construction (for means and methods best chosen by the contractor yet requiring approval prior to construction) |  |
|  | Stabilization of disturbed areas from removal of E&SC |  |
|  | Planting Plan |  |
|  | Planting schedule for SWM facilities |  |
|  | Standard MDOT SHA maintenance note on title sheet |  |
|  | Maintenance access paths for BMPs |  |
|  | Owner’s certification |  |
|  | Engineer’s certification |  |
|  | As-built certification block |  |
|  | Additional protective measures for impaired waters |  |
|  | BMP and ESD As-built tabulations |  |
|  | Copy of AASCD/CAC submissions and comment letters, including computations (if applicable) |  |
|  | Copy of Dam Safety/Small Pond submission to MDE and MDE comment letters  |  |
|  | General Note Sheet, Full set of Plans |  |
|  | **For non-book jobs**: PDF of Draft IFB (draft TOC, Category 300 SP’s and SPI’s, Required Permits)**For book jobs**: include all items above plus pdf of construction exhibits  |  |

**Report Requirements**

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| --- | --- | --- |
|  | SWM report cover signed and sealed by the professional engineer in charge of the design |  |
|  | Letter sized paper |  |
|  | Typed report with handwritten computations allowed |  |
|  | Any maps, diagrams or figures (roll maps acceptable) |  |
|  | Title sheet |  |
|  | Table of contents |  |
|  | List of figures or tables |  |
|  | Body of report  |  |
|  | Introduction |  |
|  | Methodologies used |  |
|  | Narrative – include discussion of how the design impacts environmental features on or adjacent to the site (wetlands, floodplains, thermal impacts for Use III and IV streams, etc.) |  |
|  | Analysis |  |
|  | Summary and conclusions (Include ESD to MEP discussion & Justification for variance/waiver) |  |
|  | Appendices |  |
|  | Site impervious area plan  |  |
|  | Drainage area plan |  |
|  | Drainage boundaries |  |
|  | Area to SWM practices |  |
|  | Area to discharge points |  |
|  | Soil types |  |
|  | Ground cover |  |
|  | Land uses |  |
|  | POI |  |
|  | Tc Paths |  |
|  | TR-55 worksheets |  |
|  | Hydraulic computations |  |
|  | TR-20 analysis |  |
|  | Spillway Computations |  |
|  | Geotechnical data for SWM design |  |
|  | Downstream information supporting analysis of downstream impacts:To downstream tributary whose drainage area equals or exceeds the contributing area to the BMP; orTo downstream point where the flow rate is a minimum of twice the discharge rate from the BMP |  |
|  | Hydrologic computations for ESD and BMP |  |
|  | Unified sizing criteria computations |  |
|  | Stormwater volume computations for ESD and BMP |  |
|  | Hydraulic computations for ESD and BMP |  |
|  | Small Pond flow chart for each facility (SWM & ESC) |  |
|  | Outfall assessment sheets at each POI |  |
|  | Velocity & outfall protection computations including 2, 10, and design year storm events |  |
|  | WQSS signed by HHD DC/ADC (signature required for site development approval, except for SWM exempt projects) |  |
|  | Waivers and Variances (if applicable) |  |
|  | Compensatory SWM |  |
|  | Small pond summary sheets (If applicable) |  |

**Items missing should be discussed in the narrative.**