

**WMO SCHEDULE D-LEGACY  
WATERSHED MANAGEMENT FACILITIES**

Name of Project: \_\_\_\_\_

*(Submit additional Sch. D-Legacy for each stormwater facility, as needed)*

**A. DEVELOPMENT INFORMATION**

- 1) Total parcel area: \_\_\_\_\_ acres
- 2) Total development area on the parcel: \_\_\_\_\_ acres

**B. SITE RUNOFF REQUIREMENTS**

- 1) On-site development area tributary to overland conveyance system: \_\_\_\_\_ acres
- 2) Upstream off-site tributary drainage area: \_\_\_\_\_ acres
- 3) Total tributary drainage area to conveyance system (B.1 + B.2): \_\_\_\_\_ acres
  - A. Ratio of upstream tributary area to on-site development area: \_\_\_\_\_
  - B. Composite CN for total tributary area: \_\_\_\_\_
  - C. Time of concentration for total tributary area: \_\_\_\_\_ minutes
- 4) Design 100-year peak flowrate for total tributary area: .....  cfs
- 5) Overland conveyance capacity (actual flowrate provided): .....  cfs
- 6) Describe overland conveyance system type/location: \_\_\_\_\_

*(including pond overflow weir)*

Weir length: \_\_\_\_\_ ft                      Weir crest HGL elevation: \_\_\_\_\_ ft (NAVD88)

Weir elev: \_\_\_\_\_ ft (NAVD88)    Lowest building entry elev: \_\_\_\_\_ ft (NAVD88)

Other (describe): \_\_\_\_\_

**C. SITE VOLUME CONTROL (VC) REQUIREMENTS**

- 1) Existing impervious area of development: \_\_\_\_\_ acres
- 2) Proposed impervious area of development: \_\_\_\_\_ acres
- 3) Gross VC storage required (0.083 x Line C.2): \_\_\_\_\_ ac-ft
- 4) Site constraints preclude the use of retention-based practices in full?     Yes     No

If yes, provide a brief rationale: \_\_\_\_\_

In lieu of complete volume control, compliance provided via: \_\_\_\_\_

A. VC reduced impervious area allowance (25%)(C.3)(C.1 - C.2)/(C.1 x 5%): \_\_\_\_\_ ac-ft

B. Area treated by a flow through practice: \_\_\_\_\_ acres

5) Net VC required (C.3 - C.4.A): .....  ac-ft

6) VC storage provided (must be greater than line C.5) : .....  ac-ft

7) VC description and location: \_\_\_\_\_

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**D. DETENTION RELATIONSHIP TO LEGACY SPO**

- Development is tributary to existing detention facilities permitted under the SPO
- Development is part of the ownership area of an existing permitted parcel under the SPO  
(*Not currently tributary; encumbered under Legacy Schedule L, or otherwise*)
- Development is tributary to an existing unpermitted detention facility

**Legacy Permit Information (approved Schedule D form):**

- 1) Provide Legacy SPO Permit No(s): \_\_\_\_\_
- 2) Total "Area of Site" (*Legacy Sch. D, C-1*): \_\_\_\_\_ acres
- 3) "Impervious drainage area" (*Legacy Sch. D, D-1*): \_\_\_\_\_ acres
- 4) "Pervious drainage area" (*Legacy Sch. D, D-3*): \_\_\_\_\_ acres
- 5) "Total Contiguous Ownership, including project" (*Legacy Sch. A, 6-B*): \_\_\_\_\_ acres
- 6) "Net Allowable Release Rate" (*Legacy Sch. D, C-12*): \_\_\_\_\_ cfs
- 7) "Composite Runoff Coefficient (C)" (*Legacy Sch. D, D-4*): \_\_\_\_\_
- 8) "Required Detention Capacity at actual release rate" (*Legacy Sch. D, D-5*): \_\_\_\_\_ ac-ft

**Unpermitted Existing Facility Information:**

- 9) Tributary area to existing facility: \_\_\_\_\_ acres
- 10) Existing release rate (*must be less than SPO requirement*): \_\_\_\_\_ cfs
- 11) Existing % impervious area: \_\_\_\_\_
- 12) Verified detention volume capacity (*from survey*): \_\_\_\_\_ ac-ft

**E. DEVELOPMENT TRIBUTARY TO MWRD PERMITTED DETENTION**

**Existing Detention Sufficient**

- 1) Original total composite runoff coefficient (*Line D.7*): \_\_\_\_\_
- 2) Proposed composite runoff coefficient (*for sub re/development area*): \_\_\_\_\_
- 3) Original required detention volume capacity (*Line D.8*): .....  ac-ft
- 4) Verified existing detention volume serving proposed development: ...  ac-ft

*If E.2 ≤ E.1, no additional detention volume is required, proceed to H  
If E.2 > E.1, proceed to E.5.*

**Additional Volume Required (Use Modified Rational method, Bulletin 70 Rainfall Data):**

- 5) Original total composite runoff coefficient (*Line D.7*): \_\_\_\_\_
- 6) Proposed composite runoff coefficient (*for sub re/development area*): \_\_\_\_\_
- 7) Permitted release rate for the original facility (*Line D.6*): \_\_\_\_\_ cfs
- 8) Pro-rated existing detention volume (*E.4)(A.2/D.2*): \_\_\_\_\_ ac-ft
- 9) Proposed required volume at MWRD required release rate (*based on D.2*): \_\_\_\_\_ ac-ft
- 10) Proposed pro-rated detention volume (*A.2)(E.9/D.2*): \_\_\_\_\_ ac-ft
- 11) Additional detention volume required† (*E.10 – E.8*): .....  ac-ft
- 12) Additional storage volume provided (*then proceed to H*): .....  ac-ft

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**F. TRIBUTARY AREA ADDED TO MWRD PERMITTED DETENTION**

**New Release Rate**

- 1) Cfs/acre for original permit area (D.6/D.2): \_\_\_\_\_ cfs/acre
- 2) Release rate for new area (F.1\*A.2): \_\_\_\_\_ cfs
- 3) New total release rate required for entire existing system (F.2 + D.6): \_\_\_\_\_ cfs

**Additional Volume Required (Modified Rational method with Bulletin 70 Rainfall Data):**

- 4) Required detention volume for new development (w/new release rate F.2): \_\_\_\_\_ ac-ft
- 5) Required new total detention volume (D.8 + F.4): \_\_\_\_\_ ac-ft
- 6) Verified actual existing detention volume (per survey): \_\_\_\_\_ ac-ft
- 7) Additional detention volume required† (F.5 – F.6): \_\_\_\_\_ ac-ft
- 8) Additional storage volume provided (then proceed to H): \_\_\_\_\_ ac-ft

**G. DEVELOPMENT TRIBUTARY TO UNPERMITTED DETENTION**

**Existing Detention Sufficient (Modified Rational method with TP-40 Rainfall Depths):**

- 1) Original allowable release rate (Line D.10): \_\_\_\_\_ cfs
- 2) Original required detention volume capacity (based on D.9): \_\_\_\_\_ ac-ft
- 3) Verified actual existing detention volume (per survey): \_\_\_\_\_ ac-ft
- 4) Existing % impervious area of re/development: \_\_\_\_\_ %
- 5) Proposed % impervious area of re/development: \_\_\_\_\_ %

*If  $G.5 \leq G.4$ , no additional detention volume is required, proceed to H*

*If  $G.5 > G.4$ , proceed to G.6.*

**Additional Volume Required (Modified Rational method with Bulletin 70 Rainfall Data):**

- 6) Proposed composite runoff coefficient for re/development area: \_\_\_\_\_
- 7) Allowable release appropriated to proposed re/development (A.2)(G.1/D.9): \_\_\_\_\_ cfs
- 8) Required volume for proposed re/development: \_\_\_\_\_ ac-ft
- 9) Existing volume pro-rated for re/development area (A.2)(G.2/D.9): \_\_\_\_\_ ac-ft
- 10) Additional volume required † (G.8 – G.9): .....  ac-ft
- 11) Additional storage volume provided (then proceed to H): .....  ac-ft

† If additional volume required  $\leq 0.10$  acre-feet or 2% of total required, no additional volume required.

Note, volume control storage provided can be credited toward the required volume

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**H. EXISTING / PROPOSED DETENTION PARAMETERS**

- 1) Type of stormwater detention facility: \_\_\_\_\_
- 2) Detention restrictor/outlet conveyance structure (*provide details and calculations*)
  - 1. Release rate at MWRD required volume (*must be ≤ MWRD required release rate*):  

cfs at HWL \_\_\_\_\_ feet (NAVD88)
  - 2. Type: \_\_\_\_\_
  - 3. Discharge coefficient: \_\_\_\_\_
  - 4. Diameter: \_\_\_\_\_ inches
  - 5. Orifice invert elevation \_\_\_\_\_ feet (NAVD 88)
  - 6. Drawdown time: \_\_\_\_\_ hours

Name \_\_\_\_\_ Title \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Engineering Firm \_\_\_\_\_

