

# Delaware Department of Transportation

## Infiltration Construction Checklist

*This checklist has been designed for infiltration practices constructed in accordance with the Delaware Sediment and Stormwater Program's Post Construction Stormwater BMP Standards and Specifications*

Contract No.: _____		Contract Name: _____	
Contractor: _____		Contractor Project Supt.: _____	
CCR Name: _____		CCR No.: _____	
TYPE:	Basin: _____	Trench:	_____
BMP No.: _____		BMP Location (Road/Crossroads): _____	
<u>Construction Dates &amp; Time:</u>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**KEY:**

<u>✓</u>	<b>Item meets standard</b>
<u>X</u>	<b>Item not acceptable</b>
<u>N/A</u>	<b>Item not applicable</b>

**I. Pre-Construction**

- \_\_\_\_\_ A. Notification given
- \_\_\_\_\_ B. Facility location staked out & infiltration area delineated to include pre-treatment areas.
- \_\_\_\_\_ C. Upstream drainage area stabilized or effectively diverted.
- \_\_\_\_\_ D. Materials on-site and dimensions and properties verified.
  - \_\_\_\_\_ 1. Underdrain / discharge pipe
  - \_\_\_\_\_ 2. Overdrain / discharge pipe
  - \_\_\_\_\_ 3. Undrain stone
  - \_\_\_\_\_ 4. Geotextile fabric
  - \_\_\_\_\_ 5. Sand
  - \_\_\_\_\_ 6. Supplemental storage pipe
  - \_\_\_\_\_ 7. Outfall Pipe
  - \_\_\_\_\_ 8. Riser Pipe

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\_\_\_\_\_ 9. Observation ports

\_\_\_\_\_ E. Equipment on site is sufficient to excavate infiltration area as per plan.

**II. Excavation**

\_\_\_\_\_ A. Facility excavated to dimensions and at location as per the approved plan.

\_\_\_\_\_ B. Stepwise excavation used for infiltration facilities.

\_\_\_\_\_ C. Facility excavated as per the approved plan.

\_\_\_\_\_ D. Groundwater not encountered during excavation. *(Note: If groundwater is encountered during the excavation process, construction of the Facility must cease and the designer notified.)*

\_\_\_\_\_ E. Sides of infiltration trench excavation vertical.

\_\_\_\_\_ F. Bottom excavation is within design slope range.

\_\_\_\_\_ G. Bottom of trench excavation scarified prior to sand placement.

\_\_\_\_\_ H. Geotextile fabric placed along the vertical sides of the trench, anchor into sand at bottom.

**III. Structural Components** *(Infiltration practices containing underdrains and/or overdrain pipe discharge components)*

\_\_\_\_\_ A. Discharge pipe installed from overdrain to discharge point.

\_\_\_\_\_ *Discharge Pipe diameter:* \_\_\_\_\_

\_\_\_\_\_ *Discharge Pipe material:* \_\_\_\_\_

\_\_\_\_\_ B. Outlet protection provided at discharge point.

\_\_\_\_\_ C. Underdrain pipe material according to the approved plan. *(Note: If underdrain pipe material is not specified, it shall be SDR 35 minimum)*

\_\_\_\_\_ *Underdrain Pipe material:* \_\_\_\_\_

\_\_\_\_\_ D. Underdrain pipe sizes according to approved plans.

\_\_\_\_\_ *Discharge Pipe diameter(s):* \_\_\_\_\_

\_\_\_\_\_ E. Underdrain pipe perforations according to approved plans. *(Note: If not specified on the plan, three rows of 5/8" diameter perforations, 6" on-center, shall be provided)*

\_\_\_\_\_ F. Underdrain piping lay flat or with positive slope toward outlet.

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\_\_\_\_\_ G. Clean-outs and/or observation ports provided at endpoints of underdrain pipes or as shown on the approved plan.

\_\_\_\_\_ H. Double-washed crushed aggregate, clean DE No. 57 stone, used for the underdrain gravel. Stone free of rock dust, fines and soil particles.

\_\_\_\_\_ I. Depth of stone over underdrain piping checked.

\_\_\_\_\_ *Depth of stone:* \_\_\_\_\_

#### IV. Grading

\_\_\_\_\_ A. Channel protection and/or level spreader provided at infiltration practice inlets as specified on the approved plan.

\_\_\_\_\_ B. Side slopes of infiltration basin no steeper than 3:1.

\_\_\_\_\_ C. Bottom of basin graded as per the approved plan.

\_\_\_\_\_ D. Earth spillway constructed to design elevation and dimensions.

#### V. Vegetation

\_\_\_\_\_ A. Permanent stabilization as per the approved plan.

#### VI. Erosion and Sediment Control

\_\_\_\_\_ A. Spillway installed as per the approved plan.

\_\_\_\_\_ B. Trenches, fold geotextile fabric emerging from side slopes over stone to protect against sediment contamination.

Comments (Date & Initial)

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