



OHIO DEPARTMENT OF TRANSPORTATION

CENTRAL OFFICE, 1980 W. Broad St., P.O. Box 899, Columbus, Ohio 43216-0899

February 25, 2008

To: District Production Administrators and Users of Location and Design Manual, Volume 2

From: Bill Ujvari, Administrator, Office of Production

By: Michael Wawzkiewicz, Office of Production

Re: Clarification of Post-Construction BMP Implementation – January 2008

In order to clarify the implementation policy for post-construction BMPs provided with the release of the January 2008 Location and Design Manual, Volume 2, we have revised the wording in the implementation process steps for projects scoped prior to January 18, 2008 as shown below in **bold** lettering.

The Location and Design Manual, Volume 2 was updated and released on January 18, 2008. The updated manual may be downloaded using the following link: <http://www.dot.state.oh.us/se/hy/ld2.htm>.

The January 2008 version of the Location and Design Manual, Volume 2 presents multiple revisions regarding post-construction BMPs. Post-construction BMPs are a requirement of the Ohio EPA's National Pollutant Discharge Elimination System (NPDES) Construction General Permits. These revisions allow ODOT to better integrate post-construction BMP design practices into the project development process.

All ODOT projects, including local-let and ODOT-let Local Public Agency (LPA) projects, scoped after January 18, 2008 are required to include post-construction BMP in accordance with the January 2008 L&D Manual, Volume 2. Local-Let LPA projects may use an alternative post-construction BMP policy provided it has been approved by the Ohio EPA.

To ensure that all projects scoped prior to January 18, 2008 are compliant with NPDES requirements, you are required to determine the need for post-construction BMPs based on the January 2008 L&D Manual and incorporate post-construction BMP requirements for the projects as follows:

- 1) **Determine if any of the following conditions apply:**
 - a) **The project received Stage 1 plan approval prior to January 18, 2008.**
 - b) **The project did not include a Stage 1 submittal, but received Stage 3 plan approval prior to January 18, 2008.**
 - c) **Right-of-way tracings were completed prior to January 18, 2008.**
- 2) **For projects meeting any of the conditions in Item #1 above (a, b, or c), an evaluation of the potential for including post-construction BMPs according to the January 2008 L&D Manual within the existing and/or proposed right-of-way is required. If right-of-way is available, provide post-construction BMPs as directed in the January 2008 L&D Manual. If right-of-way is not available, continue to Step 4.**
- 3) **For projects not meeting any of the conditions in Item #1 above (a, b, or c), include post-construction BMP in accordance with the January 2008 L&D Manual, Volume 2.**
- 4) **For projects that have been evaluated based on #2 above that are unable to provide full compliance with the January 2008 L&D Manual, document the restrictions preventing the post-construction BMPs from being provided. Submit this documentation to Central Office – Office of Production for coordination with Ohio EPA. Include the following information in the documentation as a minimum:**

- **Quantitative cost and schedule impacts**
- **Proposed post-construction BMPs and percent of treatment provided for the project (if applicable)**
- **Environmental resource impacts**
- **Right-of-way impacts**
- **Other impacts**

The table below provides a summary of the revisions to the post-construction BMPs. The revisions are contained in full detail in the January 2008 edition of the Location and Design Manual, Volume 2.

Section	Revision
1105 – Roadway Culverts	<ul style="list-style-type: none"> ○ Relocated “multiple cell culverts” to “Special Considerations” section. ○ Relocated “improved inlets” to “Special Considerations” section. ○ Text added in Section 1105.2 to ensure installation of replacement culverts will restore the original line and grade of the stream. ○ Provided reference to stream protection practices in sections 1115 to 1118. ○ Revised language to clarify when bankfull culverts, flood plain culverts, depressed culvert inverts, and paved depressed approach aprons should be provided. ○ Updated design steps for bankfull culverts. ○ Clarified the use of energy control structures as related to water quantity treatment.
1112 – Notice of Intent (NOI)	<ul style="list-style-type: none"> ○ Removed requirement for all projects with Earth Disturbing Activity (EDA) to file an NOI. ○ Added language to clarify approach for multiple part projects and non-contiguous projects sold under one contract. ○ Added list of routine maintenance activities. ○ Added guidance for watershed specific NOI requirements. ○ Revised Figure 1112-1 – NOI Acreage Calculation Form
1115 – Post Construction Storm Water Structural Best Management Practices	<ul style="list-style-type: none"> ○ Clarified project thresholds that require post-construction BMP design. ○ Added language to clarify that requirements for post-construction BMP apply to LPA projects. ○ Provided guidance for redevelopment and new construction projects. ○ Provided options for BMP treatment approach (100% of WQv for 20% of site or 20% WQv for 100% of site). ○ Added section 1115.3 to clarify water quality and water quantity treatment requirements. Incorporated Section 1116 and 1117 of previous version of the Manual. ○ Defined approach for post-construction BMP calculations based on consideration of the existing R/W as impervious area. ○ Added Figure 1115-2 – Post Construction BMP Treatment
1116 – BMP Selection and Submittals	<ul style="list-style-type: none"> ○ Clarified sump and intersection treatment requirements. ○ Added language to address sheet flow off ODOT right-of-way. ○ Added submittal requirements regarding design of post-construction BMPs for all Major and Minor Projects.

Section	Revision
1117 – BMP Toolbox (Previously Section 1118)	<ul style="list-style-type: none"> ○ Provided additional guidance for exfiltration trench implementation. ○ Added guidance for manufactured systems including restrictions based on depth of sewer. ○ Removed energy protection area from the vegetated biofilter section. ○ Removed requirement for conveyance ditch. ○ Updated vegetated ditch design process. ○ Revised extended detention forebay size to 10% of WQv. ○ Updated anti-seep collar design.
Section 1118 has been incorporated into Section 1117.	
Figures	<ul style="list-style-type: none"> ○ Updated Figure 1105-3 to correspond with revised Section 1105.2. ○ Renumbered Figure 1116-2 to 1115-1. ○ Added Figure 1115-2 Post-Construction BMP Treatment. ○ Renumbered Figure 1118-1 Exfiltration Trench Detail to 1117-1 and updated the figure. ○ Renumbered all 1118 figures to correspond with 1117. Updated figures to follow revised manual. ○ Removed figure 1118-5 Energy Protection Area Detail. ○ Removed figure 1118-12 BMP selection at an outfall. ○ Removed figures 1118-13 through 1118-19 regarding conveyance ditches.

Please direct all questions related to the implementation of post-construction BMPs to:

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