**Low Impact Development Plan**

**(LID Plan)**

**Project Name:**

**Insert Project Name - Then Tab**

**Insert Address 1 Then Press ENTER To Insert Address 2 Or TAB To Next Field**

**Prepared for:**

**Insert Owner/Developer Name - Then TAB**

**Insert Address 1 Then Press ENTER To Insert Address 2 Or TAB To Next Field**

**Insert City, State, Zip - Then Tab**

**Insert Telephone - Then TAB**

**Prepared by:**

**Insert Consulting/Engineering Firm Name - Then TAB**

**Insert Address - Then TAB**

**Insert City, State, Zip - Then Tab**

**Insert Telephone - Then TAB**

|  |
| --- |
|  |
| PE Stamp & Sign Here |

**Insert Date Prepared/Revised - Then Tab**

Project Owner’s Certification

I certify under penalty of law that this document and all attachments were prepared under my jurisdiction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathered the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

|  |  |  |  |
| --- | --- | --- | --- |
| Owner’s Name: |  | | |
| Owner’s Title: |  | | |
| Company: |  | | |
| Address: |  | | |
| Email: |  | | |
| Telephone No: |  | | |
| Signature: |  | Date: |  |

Preparer (Engineer) Certification

|  |  |  |  |
| --- | --- | --- | --- |
| Engineer’s Name: |  | | |
| Engineer’s Title: |  | | |
| Company: |  | | |
| Address: |  | | |
| Email: |  | | |
| Telephone No: |  | | |
| I hereby certify that this Low Impact Development Plan is in compliance with, and meets the requirements set forth in, Order No. R4-2012-0175, of the Los Angeles Regional Water Quality Control Board. | | | |
| Engineer’s Signature |  | Date |  |
| Place  Stamp  Here |  | | |

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# Project Description

## Project Category

Check which box best represents the proposed project category. Only check “Yes” for one box.

|  |  |  |
| --- | --- | --- |
| **Category** | **YES** | **NO** |
| 1. Development a of a new project equal to 1 acre or greater of disturbed area and adding more than 10,000 square feet of imperviousarea b |  |  |
| 1. Development a of a new industrial park with 10,000 square feet or more of surface area c |  |  |
| 1. Development a of a new commercial mall with 10,000 square feet or more surface area c |  |  |
| 1. Development a of a new retail gasoline outlet with 5,000 square feet or more of surface area c |  |  |
| 1. Development a of a new restaurant (SIC 5812) with 5,000 square feet or more of surface area c |  |  |
| 1. Development a of a new parking lot with either 5,000 ft2 or more of imperviousarea b or with 25 or more parking spaces |  |  |
| 1. Development a of a new automotive service facility (SIC 5013, 5014, 5511, 5541, 7532-7534 and 7536-7539) with 5,000 square feet or more of surface area c |  |  |
| 1. Projects located in or directly adjacent to, or discharging directly to a Significant Ecological Area (SEA),d where the development will:    1. Discharge stormwater runoff that is likely to impact a sensitive biological species or habitat; and    2. Create 2,500 square feet or more of impervious area b |  |  |
| 1. Redevelopment e of 5,000 square feet or more in one of the categories listed above **If yes, list redevelopment category here:** |  |  |
| 1. Redevelopment e of 10,000 square feet or more to a Single Family Home, without a change in landuse. |  |  |
| a Development includes any construction or demolition activity, clearing, grading, grubbing, or excavation or any other activity that results in land disturbance.  b Surfaces that do not allow stormwater runoff to percolate into the ground. Typical impervious surfaces include: concrete, asphalt, roofing materials, etc.  c The surface area is the total footprint of an area. Not to include the cumulative area above or below the ground surface.  d An area in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and would be disturbed or degraded by human activities and developments. Also, an area designated by the City as approved by the Regional Water Quality Control Board.  e Land-disturbing activities that result in the creation, addition, or replacement of a certain amount of impervious surface area on an already developed site. Redevelopment does not include routine maintenance activities that are conducted to maintain the original line and grade, hydraulic capacity, or original purpose of facility, nor does it include modifications to existing single family structures, or emergency construction activities required to immediately protect public health and safety. | | |

## Project Description

Total Project Area (ft2):

Total Project Area (Ac):

Existing Conditions

|  |  |  |
| --- | --- | --- |
| **Condition** | **Area (ft2)** | **Percentage (%)** |
| Pervious Area: |  |  |
| Impervious Area: |  |  |

Proposed Conditions

|  |  |  |
| --- | --- | --- |
| **Condition** | **Area (ft2)** | **Percentage (%)** |
| Pervious Area: |  |  |
| Impervious Area: |  |  |

Site Characteristics

|  |  |
| --- | --- |
| Drainage Patterns/Connections  [Include a detailed description of existing and proposed drainage patterns. Describe the areas and sub-areas (to include square footage), treatment locations, direction of flow through each area, discharge point(s), ultimate termination point, etc.] | Existing: |
| Proposed: |
| Narrative Project Description:  [Include a detailed description of project areas, type of facilities, activities conducted onsite, materials and products received and stored on site, SIC Code (if applicable), land uses, land cover, design elements, drainage management areas (DMAs), etc.] |  |

|  |  |
| --- | --- |
| Offsite Runon  [Describe any offsite runon anticipated and how the runon will be either accounted for in LID BMP sizing or directed around the site.] |  |
| Utility and Infrastructure Information  [Include a description of the existing and proposed onsite utility and infrastructure. Evaluate the potential impacts of stormwater infiltration on subsurface utilities, establish necessary setbacks, and if the utilities need to be relocated. Retention-based stormwater quality control measures should not be located near utility lines where an increased volume of water could damage utilities.] |  |
| Significant Ecological Areas (SEAs)  [Identify any known Significant Ecological Area (SEA) which the project is located in or directly adjacent to, or discharging directly to.] |  |

## Hydromodification Analysis

|  |  |  |
| --- | --- | --- |
| Does the proposed project fall into one of the following categories? Check Yes/No. | Yes | No |
| 1. *Project is a redevelopment that decreases the effective impervious area compared to the pre-project conditions.* |  |  |
| Describe: | | |
| 1. *Project is a redevelopment that increases the infiltration capacity of pervious areas compared to the pre-project conditions.* |  |  |
| Describe: | | |
| 1. *Project discharges directly or via a storm drain to a sump, lake, area under tidal influence, into a waterway that has a 100-year peak flow (Q100) of 25,000 cfs or more.* |  |  |
| Describe: | | |
| 1. *Project discharges directly or via a storm drain into concrete or otherwise engineered (not natural) channels (e.g., channelized or armored with rip rap, shotcrete, etc.), which, in turn, discharge into receiving water that is not susceptible to hydromodification impacts.* |  |  |
| Describe: | | |

[Check “Yes” or “No,” as applicable.

If one or more of the above criteria are checked “Yes,” the project is exempt from Hydromodification Control Measures. State as such.

If none of the above criteria are checked “Yes,” the project will require Hydromodification control measures. Include detailed description of control measures to be implemented and a reference to calculations following the criteria outlined in MS4 Permit (Order R4-2012-0175) §VI.D.7.c.iv]

##### Hydromodification Analysis

## Property Ownership/Management

|  |  |
| --- | --- |
| [Describe ownership of all portions of project and site. Include information on if any infrastructure transfer to public agencies (City, County, Caltrans, etc.). Describe any property management company/association that will be formed. Include leasee information, as applicable.] |  |

# Best Management Practices (BMPs)

## Site Design

|  |  |
| --- | --- |
| 85th Percentile, 24-Hour Storm Depth  [Determined from the Los Angeles County 85th percentile precipitation isohyetal map. If less than 0.75 inch, state as such and use 0.75 inch throughout.] |  |
| Site Design  [Describe site design and drainage plan including; site design practices utilized and how BMPs are incorporated using the appropriate hierarchy.] |  |

BMP List

[Fill out the table below with information on the BMPs incorporated in each Drainage Management Area (DMA)]

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DMA Designation | Square Footage (sf) | Acreage (Ac) | Storm Water Quality Design Volume (SWQDv, cf) | Storm Water Quality Design Flowrate (SWQDq, cfs) [Delete if using volume-based BMPs] | BMP Type [Include make & model if proprietary] | Minimum BMP Size [Include units] | BMP Size Provided [Include units] | GPS Coordinates |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

## BMP Selection

### Infiltration BMPs

|  |  |
| --- | --- |
| Name | Included  [Check all that apply.] |
| Bioretention without underdrains |  |
| Infiltration Trench |  |
| Infiltration Basin |  |
| Drywell |  |
| Proprietary Subsurface Infiltration Gallery |  |
| Permeable Pavement (concrete, asphalt, pavers) |  |
| Other: |  |
| Other: |  |

|  |  |
| --- | --- |
| Description  [Describe Infiltration BMPs. Include descriptions on selection, sizing, and feasibility, as applicable. If infiltration is infeasible, provide brief explanation, including reference to the geotechnical report.] |  |
| Calculations  [Show calculations to demonstrate that the Storm Water Quality Design volume can be met with Infiltration BMPs.] |  |

### Rainwater Harvest and Use BMPs

|  |  |
| --- | --- |
| Name | Included  [Check all that apply.] |
| Above-ground cisterns and basins |  |
| Underground detention |  |
| Other: |  |
| Other: |  |
| Other: |  |

|  |  |
| --- | --- |
| Description  [Describe Rainwater Harvest and Use BMPs. Include descriptions on selection, suitability, sizing, and infeasibility, as applicable.] |  |
| Calculations  [Show calculations to demonstrate if the Storm Water Quality Design volume can be met with Rainwater Harvest and Use BMPs. If not, document how much can be met with Rainwater Harvest and Use and why it is not feasible to meet the full volume with Rainwater Harvest and Use BMPs.] |  |

### Alternative Compliance BMPs

Biofiltration BMPs

*(If Infiltration BMPs and Rainwater Harvest and Use BMPs are Infeasible)*

|  |  |
| --- | --- |
| Name | Included  [Check all that apply.] |
| Bioretention with underdrains (i.e. planter box, rain garden, etc.) |  |
| Constructed Wetland |  |
| Vegetated Swale |  |
| Vegetated Filter Strip |  |
| Tree-Well Filter |  |
| Other: |  |
| Other: |  |

|  |  |
| --- | --- |
| Description  [If the full Design Storm Capture Volume cannot be met with Infiltration BMPs, and/or Rainwater Harvest and Use BMPs, describe Biofiltration BMPs. Include descriptions on selection, suitability, sizing, and infeasibility, as applicable.] |  |
| Calculations  [Show calculations to demonstrate how 1.5 times the Storm Water Quality Design volume and/or flowrate can be met with Biotreatment BMPs.] |  |

Offsite BMPs

*(If Infiltration BMPs, Rainwater Harvest and Use BMPs, and Biofiltration BMPs are Infeasible)*

|  |  |
| --- | --- |
| Name | Included  [Check all that apply.] |
| Offsite Infiltration |  |
| Ground Water Replenishment Projects |  |
| Offsite Project - Retrofit Existing Development |  |
| Regional Storm Water Mitigation Program |  |
| Other: |  |
| Other: |  |

|  |  |
| --- | --- |
| Description  [If the full Design Storm Capture Volume cannot be met with Infiltration BMPs, Rainwater Harvest and Use BMPs, or Biofiltration BMPs, describe proposed Alternative Compliance BMPs. Include descriptions on selection, suitability, sizing, and infeasibility, as applicable.] |  |
| Calculations  [Show calculations to demonstrate how the conditions required by the MS4 Permit will be met with Alternative Compliance BMPs.] |  |

### Treatment Control BMPs

Treatment control BMPs can only be used as pre-treatment to LID BMPs.

|  |  |
| --- | --- |
| Name | Included  [Check all that apply.] |
| Media Filter |  |
| Filter Insert |  |
| CDS Unit |  |
| Other: |  |
| Other: |  |

|  |  |
| --- | --- |
| Description  [Include descriptions on selection, suitability, sizing, and infeasibility, as applicable.] |  |

### Hydromodification Control BMPs

|  |  |
| --- | --- |
| Name | Included  [Check all that apply.] |
| Infiltration System |  |
| Above-ground Cistern |  |
| Above-ground Basin |  |
| Underground Detention |  |
| Other: |  |
| Other: |  |

|  |  |
| --- | --- |
| Description  [If the site is susceptible to hydromodification, include descriptions on selection and sizing of Hydromodification Control Measures.] |  |
| Calculations  [If the site is susceptible to hydromodification, show calculations to demonstrate how the volume, flowrate, and duration conditions can be met with Hydromodification Control Measures BMPs.] |  |

### Non-structural Source Control BMPs

|  |  |  |
| --- | --- | --- |
| Name | Check One | |
| **Included** | **Not Applicable** |
| Education for Property Owners, Tenants and Occupants |  |  |
| Activity Restrictions |  |  |
| Common Area Landscape Management |  |  |
| Common Area Litter Control |  |  |
| Housekeeping of Loading Docks |  |  |
| Common Area Catch Basin Inspection |  |  |
| Street Sweeping Private Streets and Parking Lots |  |  |

### Structural Source Control BMPs

|  |  |  |
| --- | --- | --- |
| Name | Check One | |
| **Included** | **Not Applicable** |
| Provide storm drain system stenciling and signage |  |  |
| Design and construct outdoor material storage areas to reduce pollution introduction |  |  |
| Design and construct trash and waste storage areas to reduce pollution introduction |  |  |
| Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control |  |  |
| Protect slopes and channels and provide energy dissipation |  |  |
| Loading docks |  |  |
| Maintenance bays |  |  |
| Vehicle wash areas |  |  |
| Outdoor processing areas |  |  |
| Equipment wash areas/racks |  |  |
| Fueling areas |  |  |
| Hillside landscaping |  |  |

Attachment A

Calculations

[Include calculations for each BMP following an approved published design standard (i.e. City Manuals, County Manuals, Caltrans, CASQA, etc.). Calculations must be followed step-by-step with no alterations. Also, include an excerpt from the design standard used.]

Attachment B

Geotechnical Investigation

[Include all geotechnical documents relevant to infiltration feasibility (i.e. Geotechnical Report, Soils Report, Percolation Report, Soils Letter, etc.). The document(s) must detail the results of the soil investigation, the infiltration rate, groundwater depths, soil characterization, etc. Note that soil borings must be conducted in the area of the proposed BMPs. In addition to the complete soils report, a letter signed and stamped with wet ink application by a geotechnical engineer must be provided. The letter must state that the soil will or will not exhibit instability as a result of implementing the proposed BMPs, that the seasonal high groundwater depth is or is not at the required depth (5-10 feet depending on BMP type) below the base of the infiltration BMP, and the infiltration rate is or is not at least 0.3 in/hr.]

Attachment C

City Forms

[Complete and include all City forms (i.e. Form OC1, Form P1, Form P2, Form PC, etc.]

Attachment D

Master Covenant Agreement (MCA)

Include a Master Covenant Agreement (MCA) form along with an attached Operations and Maintenance (O&M) Plan, Site Plan, and Owner’s Certification. The MCA must list the type and dimensions of each BMP. Once the MCA is approved by the City, it will need to be notarized and recorded (along with attachments) with the County Recorder’s Office.

Attachment E

Operations and Maintenance (O&M) Plan

[Include an Operations and Maintenance (O&M) Plan. This should include the components of the BMPs, the frequency of inspections and maintenance, the responsible entity, etc.

Operations and Maintenance (O&M) Plan

for

**Insert Project Name - Then Tab**

**Insert Address 1 Then Press ENTER To Insert Address 2 Or TAB To Next Field**

**Insert Grading Permit No., Building Permit No., Tract No., Cup, Sup And/Or Apn (Specify Lot Numbers If Part Of A Tract) - Then Tab**

Required Permits

This section must list any permits required for the implementation, operation, and maintenance of the BMPs. Possible examples are:

* Permits for connection to sanitary sewer
* Permits from California Department of Fish and Game
* Encroachment permits

If no permits are required, a statement to that effect should be made.

Recordkeeping

All records must be made available for review upon request.

Responsible Party

The owner is aware of the maintenance responsibilities of the proposed BMPs. A funding mechanism is in place to maintain the BMPs at the frequency stated in the LID Plan. The contact information for the entity responsible is below:

|  |  |
| --- | --- |
| Name: |  |
| Company: |  |
| Title: |  |
| Address 1: |  |
| Address 2: |  |
| Phone Number: |  |
| Email: |  |

| **BMP Name** | **BMP Implementation, Maintenance, and Inspection Procedures** | **Implementation, Maintenance, and Inspection Frequency and Schedule** | **Person or Entity with Operation & Maintenance Responsibility** |
| --- | --- | --- | --- |
| **Non-Structural Source Control BMPs** | | | |
| Education for Property Owners, Tenants and Occupants | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Activity Restriction | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Common Area Landscape Management | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Common Area Litter Control | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Housekeeping of Loading Docks | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Common Area Catch Basin Inspection | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Street Sweeping Private Streets and Parking Lots | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Structural Source Control BMPs** | | | |
| Provide Storm Drain System Stenciling and Signage | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Design and Construct Outdoor Material Storage Areas to Reduce Pollutant Introduction | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Design and Construct Trash and Waste Storage Areas to Reduce Pollutant Introduction | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Use Efficient Irrigation Systems & Landscape Design | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Protect Slopes and Channels and Provide Energy Dissipation | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Loading Docks | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Maintenance Bays | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Vehicle Wash Areas/Racks | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Outdoor Processing Areas | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Equipment Wash Areas | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Fueling Areas | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| Hillside Landscaping | **Insert BMP Narrative - Then Tab. Delete If Not Used.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Treatment Control BMPs** | | | |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **LID BMPs** | | | |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Hydromodification Control BMPs** | | | |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |
| **Insert BMP Name - Then Tab. Delete If Not Used.** | **Insert BMP Narrative - Then Tab.** | **Insert BMP Maintenance Frequency - Then Tab.** | **Insert Responsible Entity - Then Tab.** |

Attachment F

Plans

[Include full sized copies (24” x 36” or larger) of all relevant plans (i.e. grading plans, plumbing plans, drainage plans, etc.) signed, stamped, and dated with wet ink application by a California licensed civil engineer with all water quality notes and details. This is to properly evaluate the site design and ensure all BMPs are located on plans which will be used by the contractor during construction. The plans must indicate the locations of all BMPs, cross-sectional details of all BMPs, conveyance systems, drainage connections, overflow processes, elevations, inverts, etc. All conveyance systems (i.e. ribbon gutters, area drains, storm drains, swales, etc.) must be indicated with inverts and elevations. The cross-sectional details of the BMPs must show the type and depth of all layers (i.e. amended soil layer, gravel layer, etc.) and must follow the criteria from the design standard used.]