Boise City Public Works
General Drainage Plan Review
Requirements Checklist

Development Name	**Bldg. Permit #**	**Drainage Reviewer**
Site Address	**Initial Review Date**	**ODI Number**
Designer	**Company Name**	**Treated Acres**
Date Approved	**Company Phone No.**	**Depth to Groundwater**

Review Process - Seepage Bed / Infiltration Trench: GPS Required (IDWR Permit**)** _____

_____A pre-application conference was scheduled

_____A variance has been requested

Redevelopment / Major Modification: Drainage Permit Required

_____Modification or replacement of 1000 ft^2 or 10% of existing impervious area within the stormwater drainage facility

_____Changes the water quality treatment process

_____Changes the volume, surface area, depth, capacity, inflow rates, outflow rates, or level of treatment by 5% or more

_____5000 ft^2 and proposes to discharge off-site

_____Treated Offsite Discharges w/ Agency's permission

Development:

_____500 ft^2 new impervious area

Swale: Test Required

_____ **<** 6"/hr infiltration

_____No sand filter: sod used

_____No sand filter: unsuitable backfill

Section 2.2 Site Evaluation Requirements

The site has been evaluated for the following site conditions: (T= OK, O=noncompliance, NA= Not Applicable)

____Permeability and types of soil and subsurface materials underlying the BMP (within 10' of the bottom of the BMP)

____Size of the drainage area served and the generated runoff volume in relation to the size of the BMP

____Slope and geometry of the site

____Proximity and classification of bedrock beneath the bottom of the BMP

____Proximity of the seasonal high ground water table beneath the bottom of the BMP

____Land uses and potential contaminant types

____Proximity to surface water

____Proximity to public and private drinking water supply wells and distribution lines

____Site specific factors related to past use, including soil and ground water contamination

Comprehensive Drainage Plan > 10 Acres

____Project phasing provided

Grading Requirements

____Parking lot grades are at least 1% for asphalt and 0.4% for concrete

____Traffic rated manhole lids are used

____Setbacks for safety, foundation support, and to prevent runoff or erosion, and grading 2 ft. from property line

Section 2.3 Stormwater Report

____ Two (2) copies of a complete stormwater report, including narrative, calculations, and detail sheets

____ Five (5) copies of drainage plan and details sheet, if separate

____ Shallow Injection Well (SIW) form (IDWR)

Hydrologic method used to determine runoff rate and volume:

_____Rational Method

_____TR-55

_____Other (please specify). Alternate methodologies must be approved by Public Works

Public Safety Requirements

_____Safety measures are incorporated into the design of all stormwater control facilities

Water Quantity Design

_____The project does not propose to infiltration any stormwater (geotechnical report not required)

_____Copies of offsite discharge authorizations or easements are provided

_____50-year or 100-year design storm is used

_____Pre-and post-development rates checked for the 2, 5, 10, 50, 100-year storm events (unless Agency agrees to 50 yr. event)

_____Conveyance systems are designed to accommodate peak flow rates for the design storm

_____ Infiltration systems are designed to fully infiltrate design storm runoff volume within 48 hours (geotechnical report required)

_____Seepage beds require a monitoring well

Water Quality Design

_____80% TSS removal for 0.34" water quality stormwater treatment volume required for offsite discharges

_____Seepage bed: 10' separation from bottom to seasonal high ground water or 5' separation with 1.5' layer of filter sand on bottom

_____Seepage bed: short circuiting prevented at sites with infiltration rates > 8"/hour

_____Infiltration basin or swale: 3' separation from bottom to seasonal high ground water

_____Swale: sand filter window with 1.5' of fine grade sanG

Land Uses with Potential Higher Pollutant Loads

_____The project does not fall into a land use category that may generate higher pollutant concentrations (Skip "Land Uses with Potential Higher Pollutant Loads" section)

If the project falls into one of the following land use categories that may generate higher pollutant concentrations (check all that apply):

_____Industrial facility that is required to obtain an NPDES industrial stormwater permit
_____Vehicle salvage yards (auto recycler facilities); fueling facilities; fuel transfer facilities; vehicle parts stores; fleet storage areas (cars, buses, trucks); or vehicle service, maintenance and equipment cleaning areas
_____Road salt storage and loading areas (if exposed to rainfall)
_____Commercial nurseries
_____Outdoor storage and loading/unloading areas of hazardous substances
_____Industrial machinery yards and equipment maintenance
_____Railroad yards and equipment maintenance
_____Aircraft storage, use, and maintenance
_____Construction businesses (paving, heavy equipment maintenance & storage, storage of petroleum products)
_____Bulk material sales (landscape rock or sand products)
_____ Full service and limited service restaurants
_____ Concrete, excavation, and painting contractors
_____ Industrial source controls

If the project includes applicable treatment systems for the expected pollutants please specify _____

Operation and Maintenance Requirements

Two copies of the Operation and Maintenance Plan that identify:

_____stormwater system owner(s)
_____entity, party or parties, responsible for long term system operation and maintenance
_____system access requirements
_____copy of final system drawing designs along with design calculations
_____list of source controls – especially for land uses with potential higher pollutant loads
_____schedule of inspection and maintenance for routine and non-routine maintenance tasks to be conducted
_____inspection and maintenance record requirements and that these records be retained for 5 years
_____system failure and replacement criteria to define the structure's performance requirements
_____basins and swales: maximum allowable sediment depth
_____methods for testing and disposal of accumulated sediments

Geotechnical Reports

_____For projects that propose infiltration, two copies of a Geotechnical Report must be provided that identify:
_____Site evaluation information
_____Soils report and geologic report with boring logs (See Section 4.3.2 for more information)
_____Written opinion of site suitability by a geologist, soils scientist, or engineer
_____Recommended design infiltration rate
_____Infiltration test data and results
_____Seasonal high groundwater elevation