



LID PLANNING & DESIGN CHECKLIST

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LOW IMPACT DEVELOPMENT (LID) ASSESSMENT CHECKLIST FOR NEW, REMODEL OR RETROFIT PROJECTS

Building Permit No. _____

Project Address: _____

Parcel No. _____

Project Type: Residential _____ Commercial _____ Industrial _____ Public _____

Project is: New Development _____ Remodel _____ Retrofit _____

Project Description:

Proposed development area: _____ acres

Pre-project impervious area: _____ sq. ft.

Amount of impervious area to be **replaced**: _____ sq. ft.

Amount of **new** impervious area: _____ sq. ft.

Amount of impervious area **removed**: _____ sq. ft.

Change in amount of impervious area: _____ sq. ft.

APPLICANT INFORMATION:

Company/Agency: _____

Contact Person: _____

Address: _____

Phone: _____ Email: _____

Signature: _____ Date: _____

A SITE INVENTORY & ANALYSIS

Use this portion of the checklist to document the site inventory and analysis. For additional information on each portion of the analysis, refer to Chapter 2.3 in the Eastern Washington Low Impact Development Guidance Manual.

1. Site topographic features

Describe site topography and slopes: _____

Delineate areas of flat, moderate, and steep slopes (on map): _____

Opportunities: _____

Constraints: _____

2. Existing hydrologic patterns & features

Sub-basin delineation (on map): _____

Streams: _____

Wetlands: _____

Floodplains: _____

Riparian areas: _____

Other: _____

3. Soil & subsurface hydrology characterization

Soil type(s): _____

Depth to seasonal high groundwater (feet): _____

Bedrock present: _____ If yes, depth (feet): _____

Low permeability layer: _____ If yes, depth (feet): _____

Native Soil Infiltration Rate (inch/hour): _____

Correction Factor: _____

Other: _____

4. Native vegetation & soil protection areas

Native vegetation type(s): _____

Opportunities: _____

Constraints: _____

5. Access

Opportunities: _____

Constraints: _____

6. Land use controls

Opportunities: _____

Constraints: _____

7. Utility availability & conflicts

Opportunities: _____

Constraints: _____

B SITE GOALS



Combine the information analyzed in Section A to develop a composite site map. This map will be used as a basis for LID site design.

Identify specific design goals for the project. Example goals may include the following:

- Meeting Core Element requirements for runoff treatment and/or flow control (2004 SMMEW).
- Retrofitting existing developments for water quality improvement.
- Reducing site water and energy demands.
- Improving neighborhood aesthetics and mobility.
- Controlling Combined Sewer Overflows.
- Other: _____

CORE ELEMENT		PURPOSE	APPLICABILITY
1	Preparation of a Stormwater Site Plan	To integrate stormwater management into project planning and design	Applicable to all sites; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government
2	Construction Stormwater Pollution Prevention	To control erosion and prevent sediment and other pollutants from leaving the site	Applicable to all sites; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government
3	Source Control of Pollution	To prevent stormwater from coming into contact with potential pollutants	Applicable to all sites; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government
4	Preservation of Natural Drainage Systems	To maximize the extent to which stormwater discharge patterns, rates, and outfall locations remain the same after a development project	Applicable to all sites; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government
5	Runoff Treatment	To protect water quality in the receiving water by reducing the loads and concentrations of pollutant in stormwater using biological, physical and chemical removal methods	Applicable only to sites that are determined to have sufficient pollutant-generating potential; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government
6	Flow Control	To protect stream morphology and habitat by mitigating the impacts of increased storm runoff volumes and flow rates to streams	Applicable only to sites that discharge to non-exempt surface water bodies; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government
7	Operation and Maintenance	To prevent failure of stormwater treatment facilities or improper discharges due to inadequate maintenance or improper operation	Applicable to all sites with runoff treatment or flow control facilities; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government
8	Local Requirements	To provide for additional conditions or measures needed to protect local water bodies or for other reasons	Applicable to and required for all sites where such measures have been established by local ordinance or rule

Table excerpt from 2004 Stormwater Management Manual for Eastern Washington

C

SELECT LID SOLUTIONS TO MATCH SITE CONDITIONS AND GOALS

Review the LID BMPs to be incorporated on-site to determine feasibility. If not included, provide justification. Refer to the applications, limitations, and infeasibility criteria included in the Eastern Washington Low Impact Development Guidance Manual to determine BMP feasibility.

	INCORPORATED	NOT FEASIBLE	NOT APPLICABLE	JUSTIFICATION
4.2 Amending On-Site Construction Soils				
4.3 Dispersion				
4.4 Bioretention				
4.5 Trees				
4.6 Permeable Pavement				
4.7 Vegetated Roofs				
4.8 Minimal Excavation Foundations				
4.9 Rain Water Harvesting				

D

DEVELOP PRELIMINARY SITE LAYOUT

A preliminary site layout should include the information gathered in the site inventory & analysis and the proposed improvements and selected LID BMPs. This layout should show how site goals are being met.

E

SIZING

Each individual LID BMP included in the design must be sized appropriately by the engineer. See guidance on modeling methods provided in the 2004 SMMEW and the 2013 Eastern Washington Low Impact Development Guidance Manual. Submit documentation with designs showing how the calculations were performed and demonstrating the flow control and/or treatment goals are being met.