

Attachment 4: Comparison of LID Measures and Performance Standards from Model Ordinance and Draft Permit Modification

LID Measure	Model LID Ordinance Language Performance Standard / Technique	Original Permit Modification Performance Standard / Technique
Minimize Site Clearing	<ul style="list-style-type: none"> <li>• Prioritize Protection of sensitive areas</li> <li>• Project plans shall depict limits of disturbance</li> <li>• <b>Optional: Rural Development shall preserve at least 40% site and Suburban New development 25% of site as open space</b></li> </ul>	<ul style="list-style-type: none"> <li>• Clustered development with remaining land protected by deed restriction</li> <li>• Residential               <ul style="list-style-type: none"> <li>- 10,000 sq. ft maximum development for house lots</li> </ul> </li> <li>• Commercial, Industrial, Institutional               <ul style="list-style-type: none"> <li>- 25 feet max. disturbance around buildings and pavement (or be rototilled, revegetated and maintained as meadow grass)</li> <li>- Maximum 1000 ft road per 10 lots or with buffers only</li> </ul> </li> </ul>
Protect Natural Drainage System	<ul style="list-style-type: none"> <li>• Prioritize Protection of sensitive areas</li> <li>• Stream Crossing shall be designed using ME Stream Smart Principles</li> <li>• Rural and Suburban Projects shall preserve natural pre-development Drainageways on site</li> <li>• Projects that have a Disturbed Area of one acre of land or more shall include Stormwater Treatment Measures in accordance with Chapter 500 Section 4.C General Standards, 4.C.(2) Treatment requirements, 4.C.(3) Types of treatment measures allowed, and 4.D Phosphorus standard (for lake watersheds only)</li> <li>• Infiltration Standard: Provide volume control on-site through infiltration or storage</li> </ul>	<ul style="list-style-type: none"> <li>• Maintain a minimum 25 foot buffer on all natural water resources including intermittent channels</li> <li>• Do not divert stormwater from its natural sub-watershed</li> <li>• Wetland impact no greater than 4300 sq ft and is limited to crossings</li> </ul>
Minimize Decrease in Time of Concentration	<ul style="list-style-type: none"> <li>• Stream Crossing shall be designed using ME Stream Smart Principles</li> <li>• Rural and Suburban Projects shall preserve natural pre-development Drainageways on site</li> </ul>	<ul style="list-style-type: none"> <li>• Breakup or disconnect the flow of runoff over impervious surfaces</li> <li>• Sheet flow over pavement that is less than 100 feet</li> <li>• Residential               <ul style="list-style-type: none"> <li>- Raingardens for pretreatment (18 inches or filter media, no</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Infiltration Standard: Provide volume control on-site through infiltration or storage</li> </ul>	<p>underdrain, with 6 inch ponding and an overflow) or buffers only for treatment</p> <ul style="list-style-type: none"> <li>• Commercial, Industrial, Institutional <ul style="list-style-type: none"> <li>- 1 acre or less per stormwater management structure (buffer, filter, infiltration)</li> <li>- Maximize sheet flow</li> <li>- Rain collection for reuse in building</li> </ul> </li> </ul>
<p>Minimize Impervious Area</p>	<ul style="list-style-type: none"> <li>• Prioritize Protection of sensitive areas</li> <li>• Optional: Rural Development shall preserve at least 40% site and Suburban New development 25% of site as open space</li> <li>• Minimize Impervious Area and the Effect of Impervious Area from road runoff: At least 70% of roadway Runoff shall be directed into a Stormwater Treatment Measure</li> <li>• Optional: <ul style="list-style-type: none"> <li>- Dead-end streets shall be no longer than 1000 feet (Rural and Suburban Areas).</li> <li>- Dead-end roads shall be constructed to provide a hammerhead (when less than 200 feet), or a tear drop cul-de-sac turn-around with a center that is vegetated, used for open space, and/or a Stormwater Treatment Measure as described below (Rural and Suburban Areas).</li> <li>- Cul-de-sac roads shall be constructed with the center island used for Stormwater Treatment Measures or vegetation unless type A or B soils are present in the center, in which case this area should be used to promote natural infiltration on-site.</li> </ul> </li> <li>• Minimize Impervious Area from parking areas: Vehicle parking stall dimension standard: maximum of 9-foot</li> </ul>	<ul style="list-style-type: none"> <li>• Go vertical with multistory buildings and parking garages</li> <li>• More than 25% of pavement area (overflow) in pervious pavement</li> <li>• All pedestrian walkways are pavers are pervious pavement</li> <li>• Infiltrate as much roof runoff as standards allow</li> <li>• Residential <ul style="list-style-type: none"> <li>- Road width that is 18 feet or less</li> </ul> </li> <li>• Commercial, Industrial, Institutional <ul style="list-style-type: none"> <li>- Multi-story buildings and, if feasible, parking garages</li> <li>- 1 acre or less per stormwater structure (filter, infiltration)</li> <li>- Sheet flow over pavement that is less than 100 feet or intercepted by and underdrained vegetated depression island</li> <li>- Parking lots must have 25% of area (overflow) in pervious pavement or grass</li> <li>- All pedestrian walkways are pavers or pervious pavement</li> </ul> </li> </ul>

	<p>x 18-foot stall. Exceptions for public safety</p> <ul style="list-style-type: none"> <li>• Optional: (not fully developed as part of this ordinance) Establish “In-Lieu of” Parking programs with the following components: <ul style="list-style-type: none"> <li>- Fee in-lieu of parking</li> <li>- Car-share in-lieu of parking</li> <li>- Transit in-lieu</li> <li>- Bike/pedestrian infrastructure improvements</li> <li>- Note that the in-lieu program may optionally be tied to incentives, such as density or height bonuses</li> <li>- Establish shared parking provisions</li> </ul> </li> </ul>	
<p>Minimize Effect of Impervious Area</p>	<ul style="list-style-type: none"> <li>• Prioritize Protection of sensitive areas</li> <li>• Projects that have a Disturbed Area of one acre of land or more shall include Stormwater Treatment Measures in accordance with Chapter 500 Section 4.C General Standards, 4.C.(2) Treatment requirements, 4.C.(3) Types of treatment measures allowed, and 4.D Phosphorus standard (for lake watersheds only)</li> <li>• Infiltration Standard: Provide volume control on-site through infiltration or storage</li> <li>• Minimize Impervious Area and the Effect of Impervious Area from road runoff: At least 70% of roadway Runoff shall be directed into a Stormwater Treatment Measure</li> <li>• Optional: <ul style="list-style-type: none"> <li>- Dead-end streets shall be no longer than 1000 feet (Rural and Suburban Areas).</li> <li>- Dead-end roads shall be constructed to provide a hammerhead (when less than 200 feet), or a tear drop cul-de-sac turn-around with a center that is vegetated, used for open space, and/or a Stormwater Treatment</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Same as Minimize Impervious Area</li> </ul>

	<p>Measure as described below (Rural and Suburban Areas).</p> <ul style="list-style-type: none"> <li>- Cul-de-sac roads shall be constructed with the center island used for Stormwater Treatment Measures or vegetation unless type A or B soils are present in the center, in which case this area should be used to promote natural infiltration on-site.</li> <li>• Runoff from on-site roofs, sidewalks, and peak-use overflow parking Runoff shall be directed into Stormwater treatment Buffers or Stormwater Treatment Infiltration Measures.</li> <li>• Snow storage shall be depicted on site plans. The location of snow storage areas in Stormwater Treatment Measures and Shoreland Zoning Setback Buffers shall be prohibited.</li> </ul>	
Minimize Soil Compaction	<ul style="list-style-type: none"> <li>• Prioritize Protection of sensitive areas</li> <li>• Project plans shall depict limits of disturbance</li> <li>• Construction equipment movement, laydown areas and parking shall be restricted to the Disturbed Area.</li> <li>• Areas to be vegetated shall be tilled and the soils amended with organic matter as needed based on the results of soil tests.</li> </ul>	<ul style="list-style-type: none"> <li>• Minimize the construction window <ul style="list-style-type: none"> <li>- For Commercial, Industrial, Institutional, a construction window that is no more than 25 feet around structures</li> </ul> </li> <li>• Rototilling all areas to be revegetated</li> </ul>
Minimize Lawns and Maximize Landscaping	<ul style="list-style-type: none"> <li>• <b>Optional: Rural Development shall preserve at least 40% site and Suburban New development 25% of site as open space</b></li> <li>• Projects that have a Disturbed Area of one acre of land or more shall include Stormwater Treatment Measures in accordance with Chapter 500 Section 4.C General Standards, 4.C.(2) Treatment requirements, 4.C.(3) Types of treatment measures allowed, and 4.D Phosphorus standard (for lake watersheds only)</li> </ul>	<ul style="list-style-type: none"> <li>• Low maintenance Maine native plants</li> <li>• No invasive plants</li> <li>• No pesticides</li> <li>• Fertilizer application only during initial planting and repair of damaged areas</li> <li>• Mulch all landscape with wood waste</li> </ul>

<p>Provide Vegetated Open-Channel Conveyance Systems</p>	<ul style="list-style-type: none"> <li>• Runoff from on-site roofs, sidewalks, and peak-use overflow parking Runoff shall be directed into Stormwater treatment Buffers or Stormwater Treatment Infiltration Measures.</li> </ul>	<ul style="list-style-type: none"> <li>• No curb / gutters and no roof gutters</li> <li>• Level spreaders to buffers where possible</li> <li>• Underdrained swales</li> <li>• No direct connection (piped discharge) to a resource</li> </ul>
<p>Rainwater is Stored for Later Reuse for Building or Landscape</p>	<ul style="list-style-type: none"> <li>• <b>Optional: Require the implementation of precipitation storage (e.g., cisterns or rain barrels) for later reuse for landscaping</b></li> </ul>	<ul style="list-style-type: none"> <li>• Rainwater is stored for later reuse for the building or landscape</li> </ul>
<p>Stormwater Quality Treatment and Retention Requirements</p>	<ul style="list-style-type: none"> <li>• Projects that have a Disturbed Area of one acre of land or more shall include Stormwater Treatment Measures in accordance with Chapter 500 Section 4.C General Standards, 4.C.(2) Treatment requirements, 4.C.(3) Types of treatment measures allowed, and 4.D Phosphorus standard (for lake watersheds only)</li> </ul>	<ul style="list-style-type: none"> <li>• No salt use</li> <li>• Commercial, Industrial, Institutional <ul style="list-style-type: none"> <li>- No development with ‘dirty’ outdoor practices (fueling stations, car washing/maintenance, etc.)</li> <li>- Good housekeeping practices according to multi-sector program</li> </ul> </li> </ul>