

4.5-i WINTERIZATION

DESCRIPTION

Between October 1 and October 15 (end of grading season), TRPA inspects all construction sites to ensure temporary BMPs are in place and winterization requirements have been met. The TRPA begins inspections on all construction sites to determine compliance with Best Management Practices (BMPs) and winterization requirements at the end of the grading season. The following winterization requirements apply to all projects under construction as stated in the Standard Conditions of Approval for the project permit.

APPLICABILITY

Applicable to all construction sites that are expected to be active more than one grading season.

Advantages

- Minimizes the potential for erosion and sedimentation on construction sites that have been temporary closed during the winter and spring season. These BMPs are designed to protect exposed soils through the spring snow melt, which may occur prior to the commencement of the grading season on May 1.

Disadvantages

- Requires inspection and maintenance on a construction site even when the site is inactive.
- Requires dedicated time and material resources to ensure that employees obey winterization requirements.
- Limits the amount of time allowable for grading activities.

DESIGN CONSIDERATIONS

- All construction sites shall be winterized no later than October 15.
- Grading is prohibited on all construction sites between October 15 and May 1.
- After October 15, a grading exception may be issued because of specific emergency circumstances related to water quality or public health and safety.
- Most precipitation events in the Lake Tahoe Region involve snow and occur between October 15 and May 1. Winterization is intended to provide protection from the annual spring snowmelt, and other brief winter warm spells that melt snow producing runoff.

INSTALLATION

- At inactive construction sites, where construction activity will not occur between October 15 and May 1, meet the following winterization requirements:
 - Install and maintain effective temporary sediment control devices (e.g. fiber rolls, silt fences).

BMP DESIGN APPROACH	
<input checked="" type="checkbox"/>	Pollutant Source Control
<input type="checkbox"/>	Hydrologic Source Control
<input checked="" type="checkbox"/>	Stormwater Treatment
SCALE OF APPLICATION	
<input checked="" type="checkbox"/>	All SFR and MFR < 1 acre
<input checked="" type="checkbox"/>	MFR 1-5 Acre and CICU < 5 acres
<input checked="" type="checkbox"/>	MFR and CICU > 5 acres and all WQIPs
TYPE OF APPLICATION	
<input checked="" type="checkbox"/>	Temporary
<input type="checkbox"/>	Permanent

- Install and maintain effective temporary vegetation protection fencing and construction boundary fencing.
 - Stabilize all disturbed and bare soil areas with vegetation, mulch in accordance with fire defensible space requirements, hydro-mulch, or erosion control blankets.
 - Clean up / remove all on-site construction slash, debris, and spoil piles.
 - Install permanent mechanical stabilization and drainage improvements (e.g. dripline trenches, drywells, catch basins), where feasible.
 - For erosion control, cover stockpiles that must be retained on-site and used for the next grading season with geotextiles. For sediment control, contain stockpiles within either silt fences or fiber-roll enclosures. Locate stockpiles away from areas where surface waters resulting from snowmelt may concentrate. Remove stockpiles that will not be used on site.
- At active sites, where non-grading construction activity continues from October 15 and May 1, meet the following winterization requirements:
 - Where and when feasible, install all permanent mechanical stabilization and drainage improvements (e.g. temporary retaining walls, terraces, dripline trenches, drywells, catch basins).
 - Install and maintain effective temporary sediment control devices (e.g. fiber rolls, silt fences).
 - Install and maintain effective temporary vegetation protection fencing and construction boundary fencing.
 - Stabilize all disturbed and bare soil areas with vegetation, mulch approved for use in fire defensible spaces, hydro-mulch, or erosion control blankets.
 - Clean up / remove all on-site construction slash, debris, and spoil piles.
 - Pave all driveways, parking areas, and material storage areas.
 - Restrict vehicle parking and storage of building materials to paved areas.
 - Sweep daily to recover sediment that has been tracked off the construction site.
 - For erosion control, cover soil/fill stockpiles that must be retained on-site and used for the next grading season with geotextiles. For sediment control, contain soil/fill stockpiles within either silt fences or fiber-roll enclosures. Locate stockpiles away from areas where surface waters resulting from snowmelt may concentrate.
 - Sweep and collect all soil which has been tracked off-site onto roadways, parking areas, and other paved surfaces.

INSPECTION AND MAINTENANCE

Ensure that all temporary and permanent BMPs required for winterization are in place and inspected and maintained periodically between October 15 and May 1.