

## NS-14 CONCRETE FINISHING

Refer to: ITD Standards and Specifications for Highway Construction, Section 502.03.I and 720.01.



### BMP Objectives

- Perimeter Control
- Slope Protection
- Borrow and Stockpiles
- Drainage Areas
- Sediment Trapping
- Stream Protection
- Temporary Stabilizing
- Permanent Stabilizing

### Definition and Purpose

Concrete finishing methods are used for bridge deck rehabilitation, paint removal, curing compound removal, and final surface finish appearances. Methods include sand blasting, shot blasting, grinding, or high pressure water blasting (hydro demo). Proper procedures minimize the impact that concrete-finishing methods may have on runoff.

### Appropriate Applications

These procedures apply to all construction locations where concrete finishing operations are performed.

### Limitations

Specific permit requirements may be included in the contract documents for certain concrete finishing operations.

### Design Parameters

- Follow any containment requirements stated in the project special provisions.
- Collect and properly dispose of water and solid waste from high-pressure water blasting operations.
- Collect water from blasting operations and transport or dispose of water in a non-erodible manner at an approved location.
- Direct water from blasting operations away from inlets and watercourses to collection areas for infiltration or other means of removal (dewatering) in accordance with applicable permits.
- Protect inlets during sandblasting operations. Refer to SC-6 (Inlet/Outlet Protection).
- Refer to WM-9 (Concrete Waste Management).
- Minimize the drift of dust and blast material as much as possible by keeping the blasting nozzle close to the surface.

- When blast residue contains potentially hazardous waste, refer to WM-7 (Hazardous Waste Management).

### **Maintenance and Inspection**

- Conduct inspections as required by the NPDES permit or contract specifications.
- At the end of each work shift, remove and contain the liquid and solid wastes from containment structures, if any, and from the general work area.