

EROSION & SEDIMENT CONTROL PLAN

EXISTING & PROPOSED SITE CONDITIONS

This parcel is currently developed as a recreational campground with existing roads, existing infrastructure and many support facilities and buildings. The campground is located on Lot 17 of AP 1E in Richmond, RI, situated between Hillside Road on the west and Gardner Road on the east. An extensive erosion and sediment control plan and storm water management plan has been approved by RI DEM for the entire campground. See Wetland Permit No. 10-0125 for further detail.

The proposed project is located on the easterly side of the property near Gardner Road. The construction of the proposed bathroom facilities will be built on the southwestern corner of the existing recreation hall. The existing building does not currently have any available restroom facilities inside. The closest restroom facility is approximately 245 ft. from the building and does not currently comply with handicap access. Therefore, the proposed addition will provide handicap restroom facilities and more convenient facilities for other persons during recreational activities. An existing concrete retaining wall and walkway will be utilized as part of the foundation of the proposed addition. This retaining wall is attached to the existing building within 14 feet, more or less, of an existing foundation wall at its closest point. The proposed addition is located inside of the required 50 ft. perimeter wetland setback. The entire area is currently vegetated with lawn and slopes away from the pond towards the existing asphalt parking area east of the existing building. The existing lawn area on the southerly side of the recreation hall slopes approximately 17% towards the parking area that has an approximate slope of 2% towards Gardner road. The existing pond flows over an existing concrete sluice way located northwesterly of the building into an existing stream less than 10 feet wide. The proposed construction site exceeds the required 100 foot setback setback. Also proposed in the general vicinity is a pervious walkway from the proposed addition and existing concrete walkway down the hill to the parking area.

SOILS
The soil classification in the vicinity of the proposed construction site is RaB - Rainbow silt loam, 3 to 8 percent slopes and is classified in a Class C Hydrological group. This soil classification is suited for community development. They have moderate surface permeability and slow subsurface permeability. The hazard of erosion is slight to moderate.

CRITICAL EROSION AREA
The major erosion problem will be during the excavation of the foundation, pouring of the foundation, and final grading, particularly on the steep slope during access to and from the proposed site. Great effort shall be taken to minimize any soil disturbance upland of the proposed site towards the existing pond. Sediment transport into the existing pond is prohibited.

EROSION AND SEDIMENT CONTROL MEASURES
All management, vegetative, and structural erosion and sediment control practices will be constructed and maintained according to the Rhode Island Soil Erosion and Sediment Control Handbook standards and specifications.

SILT FENCE
Silt fence will be employed on the down gradient sides of the proposed construction area. Silt fence will also be employed on the top of bank between the existing retaining wall and existing pond for a construction barrier and for sediment containment as a protection method for the pond. Straw wattles will be utilized on the downhill side of all stockpile areas located on the asphalt parking area. Stone rip-rap and splash pads are also proposed at all gutter downspouts on the downhill side of the proposed addition away from the pond. This will insure sheet flow across the lawn areas and slow velocities down so runoff on the slope is minimized.

PERMANENT AND TEMPORARY STABILIZATION

TEMPORARY
A silt fence will be installed along the down gradient side of the proposed construction site before the start of any excavation for a construction barrier and for sediment control. Silt fence shall also be placed uphill on the top of bank to protect the existing pond from sediment contamination and serve as a visible construction barrier. Straw wattles will be placed around stockpile zones immediately upon creation of a stock pile to control sediment runoff. The stock piles are to remain undisturbed for a period of 2 months or more, then a temporary vegetative cover shall be applied.

If sufficient rain events do not occur, then periodic watering of the disturbed areas that receive construction traffic shall be done to control dust, as needed. Also, due to the slope of the construction access area, straw mulch should be placed and seeded in before any expected heavy rain events to control possible gullying of disturbed areas.

All temporary stabilization methods shall remain in place until permanent methods have been installed and stabilized.

PERMANENT
All gutterdowns will have splash pads installed on rip-rap outlet protection cushions at all roof gutter outlet points. The storm water from the roof will then be dispersed over the grassed areas allowing for sheet flow. All other areas will be seeded and mulched after construction is complete. All disturbed areas on steep slopes shall be either seeded and mulched or planted with grass seed and mulched and seeded followed by a rip-rap in lay mulch.

SEQUENCE OF CONSTRUCTION
The following is a list of sequential steps for construction and implementation of the erosion and sediment control and storm water design plan:

1. Install silt fence before start of any earth disturbance per plan.
2. Excavation for foundation and construction of proposed addition.
3. Installation of gutter splash pad and rip-rap outlet protection devices.
4. Final grading.
5. Seeding and mulching of all disturbed areas.
6. Removal of silt fence after lawn stabilization.

MAINTENANCE
In general, all erosion and sediment control measures will be checked weekly and after each significant rainfall. The silt fence barriers for limits of disturbance shall be checked regularly and maintained throughout all construction phases. All seeded areas will be checked regularly to see that a good seed to mulch ratio. Areas shall be re-seeded and mulched as needed. Permanent maintenance of the gutter downspouts shall follow the Operation and Maintenance Plan.

STATEMENT OF RESPONSIBILITY
James J. Smith, president of Wawaloam Reservation, Inc., is assigned the responsibility for the erosion and sediment control measures and informing all parties working on the construction site of the erosion and sediment control plan requirements and objectives. The above named person shall notify the Department of Environmental Management Office of Water Resources Wetland Section and the offices of the building inspector of any transfer of this responsibility and for the conveyance of the operation and maintenance requirements if the title to the land is transferred.

Item	Quantity	Unit	Notes
GENERAL PURPOSE			
Red fabric	75	12' x 12'	Minimum maintenance required
Concrete	15	cu yd	
Gravel	15	cu yd	
Perforated pipe	5	lin ft	
Stockpile area	5	sq ft	
Rip-rap	5	sq ft	
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