

Soil Erosion and Sediment Control

- *Erosion of land sediments shall be controlled through appropriate management practices to prevent downstream water quality impacts*

Four key elements:

- Minimize surface and groundwater flow into work area
- Minimize exposure of native soils
- Achieve rapid stabilization of disturbed areas
- Capture, treat and control work area runoff

Soil Erosion and Sediment Control Plan is a *Live Document*

Soil Erosion and Sediment Control

Erosion Control Strategies:

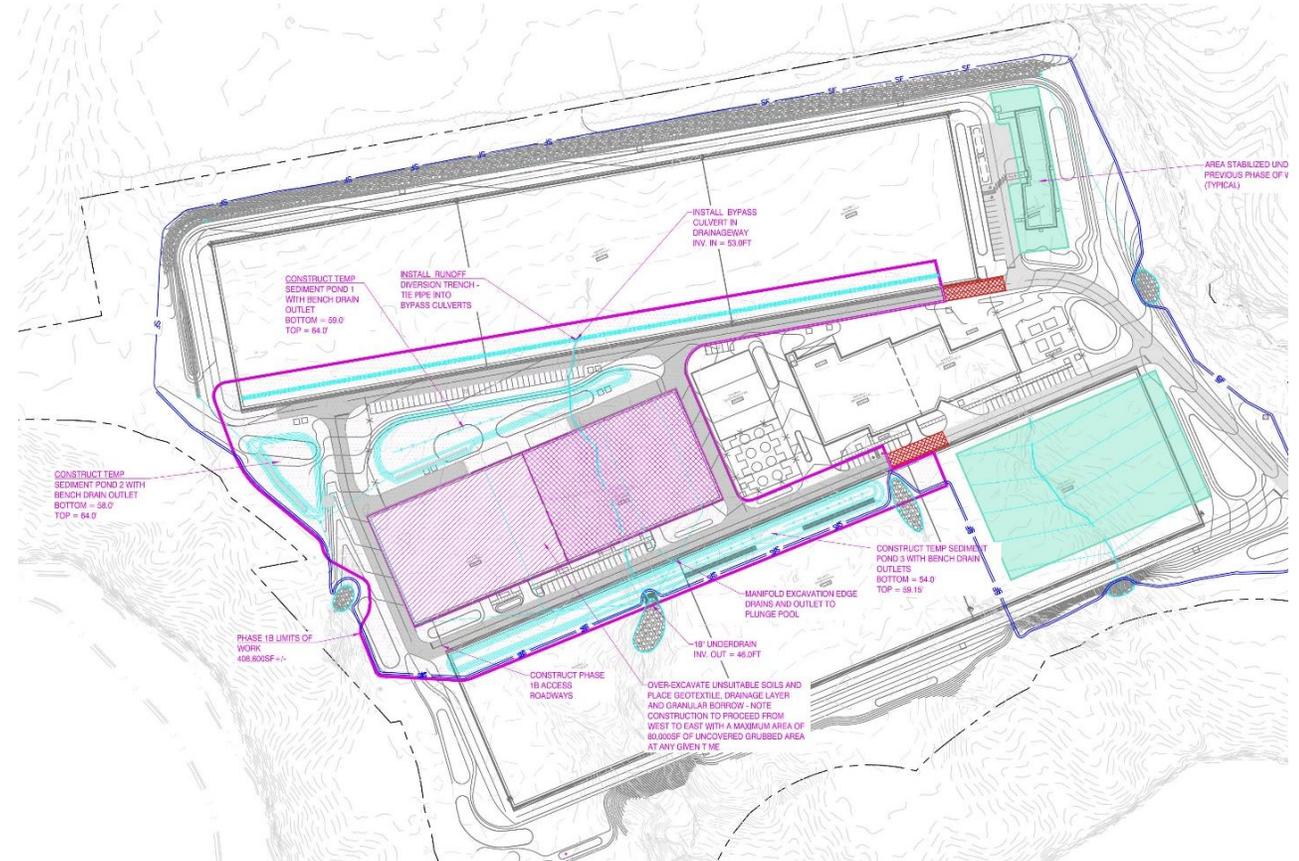
- Construction schedule and phasing plan
- Installation of perimeter controls
- Diversion of surface and groundwater
- Subgrade cover and stabilization
- Treatment BMPs



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Construction Schedule and Phasing:

- Project divided into nine phases to create manageable areas
- Each phase divided further to limit exposure of native soils
- BMPs developed for each specific phase



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Perimeter BMPs:

- Construction entrances
- Silt fence/haybale barriers
- Erosion Berm
- Riprap
- Erosion Control Blankets

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Diversion BMPs:

- Perimeter Diversion Trench
- Surface Swales
- Uphill Silt Fence
- Diversion Culverts
- Riprap Plunge Pools

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Cover/Stabilization BMPs

- Geotextile cover
- Granular Borrow Fill Section
- Erosion Blanket
- Riprap Slope Protection

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Treatment BMPs

- Sediment Basins
- Filtering Outlets
- Dirt Bags
- Filter Berms

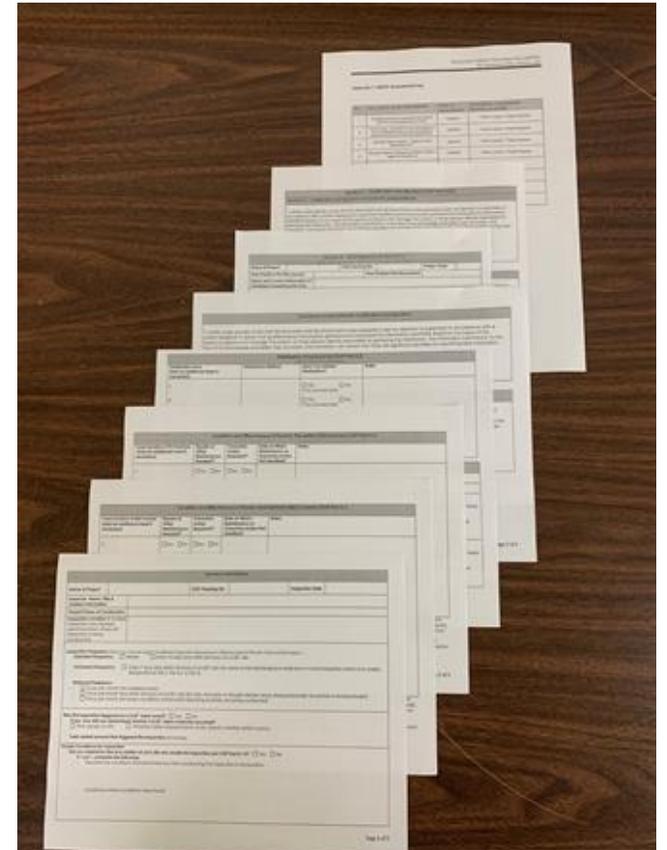
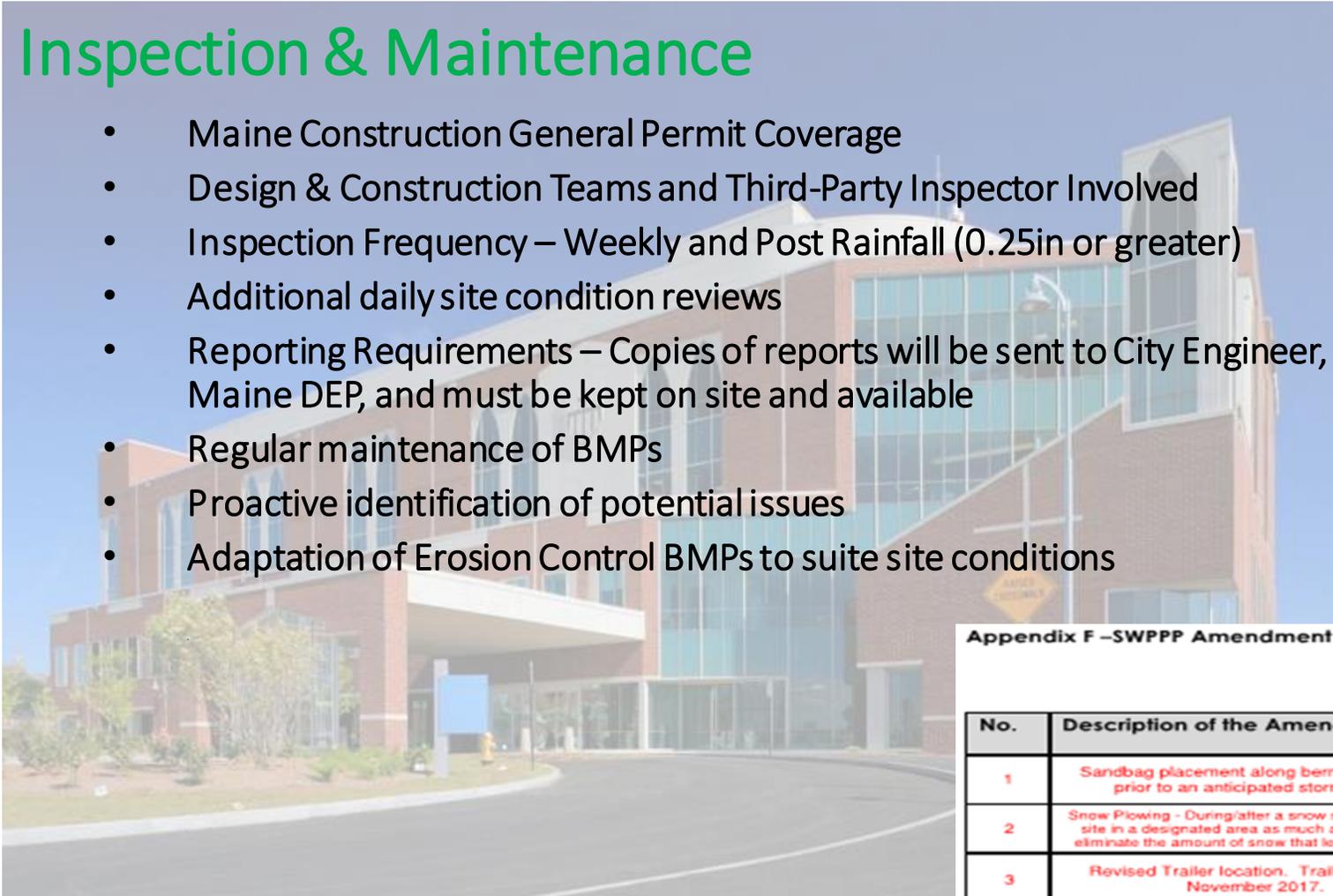
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Inspection & Maintenance

- Maine Construction General Permit Coverage
- Design & Construction Teams and Third-Party Inspector Involved
- Inspection Frequency – Weekly and Post Rainfall (0.25in or greater)
- Additional daily site condition reviews
- Reporting Requirements – Copies of reports will be sent to City Engineer, Maine DEP, and must be kept on site and available
- Regular maintenance of BMPs
- Proactive identification of potential issues
- Adaptation of Erosion Control BMPs to suite site conditions



Appendix F –SWPPP Amendment Log

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]
1	Sandbag placement along berm @ Gate B prior to an anticipated storm event	18JAN15	Patrick Lawson - Project Engineer
2	Snow Plowing - During/after a snow shall remain on site in a designated area as much as possible to eliminate the amount of snow that leaves the site.	18JAN15	Patrick Lawson - Project Engineer
3	Revised Trailer location. Trailers moved November 2017.	18JAN15	Patrick Lawson - Project Engineer
4	Revised Names of Receiving Waters (Table 1, page 5 of Section 2).	17MAR07	Patrick Lawson - Project Engineer

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City of Belfast Ordinance:

Erosion Control (Section 102-1123)

Erosion of soil and sedimentation of water-courses and water bodies shall be minimized by employing the following best management practices as set forth in Maine Erosion and Sediment Control Handbook for Construction Best Management Practices.

Erosion and Sediment control requirements (Section 98-184) Performance standards.

1. Erosion land sediments shall be controlled through appropriate management practices to prevent adverse downstream water quality impacts. Hydraulic calculation techniques and design standards for facilities to achieve this performance standard shall be of accepted methods and subject to approval of the code enforcement officer and City engineer.