

**QUADRANTS 1 & 2 WORK ASSOCIATED  
WITH C- STREET BUILDING DEMOLITION**

Worcester, Massachusetts

**Saint-Gobain North Campus Demolition**

*12 New Bond Street*

*November 2023*

**STORMWATER POLLUTION  
PREVENTION PLAN**

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**BETA**

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## 5.2 HISTORIC PRESERVATION

The following information related to historic preservation is provided pursuant to Appendix E of the CGP:

### Appendix E, Step 1

Do you plan on installing any of the following stormwater controls at your site? Check all that apply below, and proceed to Appendix E, Step 2.

- Dike
- Berm
- Catch Basin
- Pond
- Stormwater Conveyance Channel (e.g., ditch, trench, perimeter drain, swale, etc.)
- Culvert
- Other type of ground-disturbing stormwater control: **N/A**

There will be no earth-disturbing stormwater controls installed as part of the Project. According to the Massachusetts Cultural Resource Information System (MACRIS), no known historical resources are present at the Site.

## 5.3 SAFE DRINKING WATER ACT UNDERGROUND INJECTION CONTROL REQUIREMENTS

The following provides confirmation of any controls to be installed by the Project pursuant to the NPDES CGP SWPPP template:

- Infiltration trenches (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)
- Commercially manufactured pre-cast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate stormwater flow
- Drywells, seepage pits, or improved sinkholes (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)

**None apply.**

## 6.0 EROSION AND SEDIMENT CONTROLS

### 6.1 NATURAL BUFFERS OR EQUIVALENT SEDIMENT CONTROLS

#### 6.1.1 BUFFER COMPLIANCE

Project disturbances and ground disturbing activities **are not within 50-feet** of a Water of the U.S. Erosion controls and catch basin inlet protection measures will be installed and maintained in good condition for the duration of the Project.

## 6.2 PERIMETER CONTROLS

### 6.2.1 GENERAL DESCRIPTION

Perimeter erosion controls will be installed and maintained around the unnamed stream interior to the Site and west of Building 570. This stream is over 100-feet from any proposed ground disturbing activities. Additional erosion controls will be stored on Site for use as required during different Project phases. The Site is flat and largely paved so use of silt sack inlet protection is identified as effective perimeter erosion control to prevent discharge or conveyance of sediment-laden stormwater off-site. Perimeter erosion controls will be inspected as described below for the duration of the Project.

### 6.2.2 SPECIFIC PERIMETER CONTROL

<b>Silt Sacks</b>	
<b>Description:</b> Silt sacks will be installed within all on-Site catch basins to collect sediment.	
<b>Installation</b>	Prior to Construction
<b>Maintenance Requirements</b>	Silt sacks shall be inspected at least once per week with additional inspections occurring after rain events resulting in at least ¼ of precipitation. If found in disrepair, the silt sack will be either repaired or replaced.  Sediment removal will occur before it has accumulated to a degree to prevent the effective filtration of stormwater.
<b>Design Specifications</b>	Install per manufacturer specifications.

### 6.2.3 SPECIFIC PERIMETER CONTROL

<b>Siltation Fencing</b>	
<b>Description:</b> Siltation fencing shall be entrenched downgradient of the compost filter tubes and upgradient of Waters of the U.S. where within the Project Area.	
<b>Installation</b>	Prior to Construction
<b>Maintenance Requirements</b>	Siltation fencing shall be inspected at least once per week and after storm events greater than 1/4". If found in disrepair, it will be repaired or replaced as necessary.  Sediment shall be removed from the siltation fencing before it has accumulated to one-half of the above-ground height of the siltation fence.
<b>Design Specifications</b>	Siltation fencing shall be entrenched at least six (6) inches below grade and installed per manufacturer specifications.

### 6.2.4 SPECIFIC PERIMETER CONTROL

<b>Compost filter tubes</b>	
<b>Description:</b> Compost filter tubes shall be installed internal to the siltation fencing, or placed around material and soil stockpiles and excavations.	
<b>Installation</b>	Prior to construction, as needed.

<b>Maintenance Requirements</b>	Compost filter tubes will be inspected at least once per week and after storm events greater than 1/4". If found in disrepair, it will be repaired or replaced as necessary.  Sediment will be removed from the compost tubes before it has accumulated to one-half of the height of the control.
<b>Design Specifications</b>	Compost filter tubes shall overlap by at least two (2) feet and, when feasible, be staked into the ground.

### 6.3 SEDIMENT TRACK-OUT

#### 6.3.1 GENERAL DESCRIPTION

Earth disturbing activities as required for the Project are not anticipated to result in significant sediment track-out. Material and debris will be removed using freight cars and the existing rail tracks, minimizing the amount of vehicular traffic and potential for track out. If installation of a sediment tracks out pad is necessary, then the SWPPP will be updated accordingly. Should track out occur, the area should be swept and sediment removed.

The paved stockpile/staging area will be monitored for any loose sediment. Any migrated sediment must be swept from this area.

### 6.4 STOCKPILED SEDIMENT OR SOIL

#### 6.4.1 GENERAL DESCRIPTION

The Project proposes limited soil disturbances associated with the water utility access and the railroad track removal. This work is not likely to entail the significant removal or storage of soils. Should stockpiling of soils or other loose materials be necessary, stockpiles will be located greater than 100-feet from the boundary of any Water of the US and will be surrounded by a row of compost filter tubes. Soil stockpiles not in use for more than 14 days will be covered with a waterproof covering or temporarily stabilized with vegetative cover via application of an approved native seed mix.

Both the material stockpile and staging areas will be monitored for any loose sediment or other material. Any migrated sediment must be immediately removed from this area.

#### 6.4.2 SPECIFIC SOIL STOCKPILE PROTECTIONS

<b>Compost Filter Tubes</b>	
<b>Description:</b> Compost filter tubes will installed around stockpiled soils on an as-needed basis.	
<b>Installation</b>	As needed
<b>Maintenance Requirements</b>	If installed, compost filter tubes will be inspected at least once per week and after storm events greater than 1/4". If found in disrepair, they will be repaired or replaced as necessary.  Sediment will be removed before it has accumulated to one-half of the above-ground height of the compost filter tubes.

<b>Design Specifications</b>	Compost filter tubes shall overlap by at least two (2) feet and, whenever feasible, be staked into the ground.
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## 6.5 MINIMIZE DUST

### 6.5.1 GENERAL DESCRIPTION

To minimize the risk of sediment migrating from the site through the generation of dust, measures will be taken during demolition activities. The Contractor will take appropriate action to minimize atmospheric pollution by taking reasonable precautions to prevent particulate matter from becoming and staying airborne. Such measures include the use of water for the control of dusts during demolition and compaction activities and covering all open-bodied equipment carrying materials likely containing airborne dusts. Dust control methods are limited to use of water only per CGP Part 9.1.2.k. The Contractor is responsible for capturing and controlling all runoff from the dust control water.

### 6.5.2 SPECIFIC DUST CONTROLS

<b>Water Application</b>	
<b>Description:</b> When airborne particulate matter is observed onsite, water will be applied using either a fire hose or an HKD Blue Water Canon system to wet the particulate matter.	
<b>Installation</b>	A hose shall be always present, but the dust control methodology will only be employed as needed
<b>Maintenance Requirements</b>	As needed.
<b>Design Specifications</b>	N/A

## 6.6 MINIMIZE STEEP SLOPE DISTURBANCES

### 6.6.1 GENERAL DESCRIPTION

There are no existing or proposed steep slopes onsite; therefore, steep slope controls are not anticipated to be a part of the Project. Should this change, the SWPPP will be appropriately amended.

## 6.7 TOPSOIL

### 6.7.1 GENERAL DESCRIPTION

The Site is in a heavily disturbed/developed area consisting of bituminous surfaces and railroad tracks. No maintenance of topsoil is necessary.

## 6.8 SOIL COMPACTION

### 6.8.1 GENERAL DESCRIPTION

As all demolition activities will occur on previously developed land, there is no anticipated soil compaction. Should the contractor cause any unanticipated compaction to any existing vegetated area, they will be

responsible for breaking up the soil prior to applying any loam and seed. The contractor will take precautions to avoid the compaction of any newly installed loam.

## **6.9 STORM DRAIN INLETS**

### *6.9.1 GENERAL DESCRIPTION*

Numerous storm drain inlets (catch basins) are located within the Site. Each catch basin will have a silt sack installed to prevent discharge into the local MS4 system.

### *6.9.2 SPECIFIC STORM DRAIN INLET PROTECTIONS*

<b>Silt Sack</b>	
<b>Description:</b> Silt sacks will be installed within all on-Site catch basins to collect sediment.	
<b>Installation</b>	Prior to Construction
<b>Maintenance Requirements</b>	Once installed, silt sacks will be monitored weekly and after storm events greater than 1/4". If found in disrepair, they will be repaired or replaced as necessary. Sediment will be removed from silt sacks as accumulation is observed.  Accumulated sediment will be removed before it impacts the silt sack's ability to filter stormwater.
<b>Design Specifications</b>	Install per manufacturer specifications.

## **6.10 STORMWATER CONVEYANCE CHANNELS**

### *6.10.1 GENERAL DESCRIPTION*

No existing stormwater conveyance channels are located within the limits of work, nor are there any stormwater conveyance channels proposed for this Project.

## **6.11 SEDIMENT BASINS**

### *6.11.1 GENERAL DESCRIPTION*

No existing sediment basins are located within the limits of work, nor are there any proposed sediment basins for this Project.

## **6.12 CHEMICAL TREATMENT**

### *6.12.1 GENERAL DESCRIPTION*

No chemical treatments are proposed to be used onsite.

## **6.13 DEWATERING PRACTICES**

### *6.13.1 GENERAL DESCRIPTION*

There is no anticipated dewatering associated with the Project.

## 6.14 SITE STABILIZATION

### Total Amount of Land Disturbance Occurring at Any One Time

- Five Acres or less  
 More than Five Acres

#### 6.14.1 GENERAL DESCRIPTION

The total amount of land disturbance occurring at any one time will be less than five (5) acres. Due to the nature of the ground disturbing activities, areas of exposed topsoil will be limited to the removal of the disused railroad infrastructure. Such areas will be temporarily stabilized should there be no work occurring there for greater than fourteen (14) days and permanently stabilized at the completion of work.

#### 6.14.2 SPECIFIC STABILIZATION PRACTICES

Straw Mulch	
<input type="checkbox"/> Vegetative <input checked="" type="checkbox"/> Non-Vegetative <input checked="" type="checkbox"/> Temporary <input type="checkbox"/> Permanent	
<b>Description:</b> Straw mulch will be applied to temporarily stabilize exposed soils	
<b>Installation</b>	Straw mulch will be applied to soils exposed in excess of fourteen (14) days should vegetative stabilization be infeasible due to weather.
<b>Completion</b>	N/A
<b>Maintenance Requirements</b>	Inspect stabilized areas weekly after the straw mulch is installed.
<b>Design Specifications</b>	N/A

Loam and Seed	
<input checked="" type="checkbox"/> Vegetative <input type="checkbox"/> Non-Vegetative <input type="checkbox"/> Temporary <input checked="" type="checkbox"/> Permanent	
<b>Description:</b> At least three (3) inches of fresh loam seeded with an appropriate native seed mix shall be applied to achieve permanent stabilization.	
<b>Installation</b>	Loam and seed will be applied in areas where erosion controls are to be removed, and soils are exposed
<b>Completion</b>	Immediately following erosion control removal.
<b>Maintenance Requirements</b>	Inspect weekly to ensure germination. Reapply seed as needed.