

Construction Period Stormwater Operation and Maintenance Plan and Construction Sequencing

Last Revised 5/28/20

Proposed Redevelopment for Commercial Uses

185-193 Lincoln Street and 6 Crow point Lane, Hingham, MA 02043

Stormwater Management System's Owner: 185-193 Lincoln Street, LLC

System Owner's Address: 45 Braintree Hill Park, Suite 203, Braintree, MA 02184

Party responsible for Operations and Maintenance: Stormwater System Owner

As part of any infrastructure improvement the system must be maintained in order to work properly. The following is an Operation and Maintenance plan to follow prior to and while construction activities are taking place.

Emergency Contact Information:

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Construction Sequencing:

The following section provides construction details and highlights the construction sequence and timing of earth moving activities.

1 Installation of Erosion Controls

Erosion and sedimentation controls (i.e. silt sock, construction entrance) will be installed as shown on the Site Plan Set and inspected at the limits of the work area prior to the commencement of earth moving activities.

2 Clearing

All utilities (including stubs) must be identified and marked in the field prior to disturbance. No large boulders or building materials will be buried on the site. All cleared vegetation, with the exception of any vegetation that may be deemed appropriate to be replanted, will be removed from the project site or mulched and stockpiled for future use on the site.

3 Removal of Existing Pavement and Walkways

Pavement, curbing and walkways affected by the proposed grading will be removed at this time and disposed of offsite. Walkway bricks may be stored on site to be reused.

4 *Sewer, Drainage, and Utility Cover/Grate Raising and Infiltration Trench Installation*

Covers and grates for all sewer, drainage, and other utilities located within the area to be disturbed shall be raised to match proposed grades or as labeled on the plans. All respective utility companies shall be contacted and their respective rules shall be strictly followed. The proposed infiltration trench will be installed at this time.

5 *Utility Pole Removal and Transformer Relocation*

The existing utility pole and the two transformers located near the buildings at 185 Lincoln Street will be relocated or removed in the case of the utility pole per HMLP requirements. Coordination with HMLP is required prior to disturbing any electrical equipment.

6 *Rough Grading*

The site shall be rough graded at this time.

7 *Pavement and Walkway Installation*

The paved parking areas and driveways as well as any affected walkways will be installed at this time.

8 *Site Stabilization*

The final phase of the project is the restoration and stabilization of all exposed surfaces. Disturbed areas will be landscaped or seeded as necessary only after all other construction is final. In the event that weather conditions prevent final restoration, temporary erosion and sedimentation measures will be employed until the weather is suitable for final cleanup. A final inspection will ensure that the project site is cleared of all project debris and that erosion and sedimentation controls are functioning properly. Erosion and sedimentation controls will not be removed until the site is stabilized and the final inspection is complete.

Stormwater Operation and Maintenance During Construction:

Sediment and Erosion Control

- Silt socks shall be inspected at least once a week and after each rainfall event. Make any required repairs immediately. Repair scoured areas on the back side of fence at this time to prevent future problems.
- Should the fabric of the silt sock tear, decompose or otherwise become ineffective, replace it within 24 hours of discovery.
- Remove silt deposits once they reach 20 to 30 percent of the height of the silt sock to provide adequate storage volume for the next rain event and to reduce pressure on the fence. Care should be taken to avoid undermining the silt sock during cleanout process.
- Silt socks are to be removed upon stabilization of the contributing drainage area. Accumulated sediment may be spread to form a surface for turf or other vegetation establishment, or disposed of elsewhere. The area should be reshaped to permit natural drainage.
- The crushed stone construction entrance shall be inspected and maintained on a weekly basis. Any buildup of material within the apron shall be removed offsite and replaced with clean crushed stone as needed.
- Any sediment tracked from the construction entrances onto the roads during construction shall be removed immediately and the construction entrances must be adjusted as needed to prevent additional sediment tracking.
- A minimum of 50 linear feet of silt sock, straw wattles and stakes shall be kept on site at all times to maintain the installed erosion controls in good repair and provide surface cover when needed.

Dust Control

Sprinkle water as necessary to control dust during construction.

Infiltration Trench

All infiltration areas shall be excavated and installed after the construction of the foundation systems. No heavy equipment shall traverse the proposed infiltration areas after installation.

Per MA DEP Stormwater Guidelines the following work shall be done to stabilize the site prior to installing the subsurface structures:

- Do not allow runoff from any disturbed areas on the site to flow to the subsurface structures.
- Rope off the area where the subsurface structures are to be placed.
- Accomplish any required excavation with equipment placed just outside the area. If the size of the area intended for exfiltration is too large to accommodate this approach, use trucks with low-pressure tires to minimize compaction. Do not allow any other vehicles within the area to be excavated.

- Keep the area above and immediately surrounding the subsurface system roped off to all construction vehicles until the final top surface is installed.
- At no time shall the area for the infiltration system be used as a temporary sediment basin. Stockpiles shall be placed away from the subsurface infiltration system and sedimentation fences shall be placed around the perimeter of the infiltration area to prevent the accumulation of sediment within the native soils.

Material Stockpiling

If left overnight, material stockpiling must be protected from the weather. All stockpiles that are not used for more than 5 days shall be covered and surrounded by erosion and sediment controls. Hay bales will not be used as a form of erosion control.

All cleared vegetation, with the exception of vegetation to be replanted, shall be properly disposed of at an off-site location.

Good Housekeeping

The following good housekeeping BMP's will be implemented in order to prevent pollution during construction:

- Petroleum products will be stored in tightly sealed containers which are clearly labeled.
- Any asphalt substances used onsite will be applied according to the manufacturer's specifications.
- If portable sanitary units are used, sanitary waste will be removed as necessary to avoid overfilling.
- All paint and other hazardous waste materials will be tightly sealed and stored when not in use. Excess material will not be discharged into the public stormwater system, but will be properly disposed of according to the manufacturer's specifications.
- If spray guns are used, they will be cleaned on a removable tarp.