MASSACHUSETTS ELECTRIC COMPANY

WEBSTER STREET SUBSTATION
BREAKER REPLACEMENT

Notice of Intent

City of Worcester
Conservation Commission
April 2020

Prepared for:
Massachusetts Electric Company
40 Sylvan Road
Waltham, MA  02451-1120

BSC Project No. 89574.73

Prepared by:

BSC GROUP
655 Winding Brook Drive
Glastonbury, CT 06033
April 24, 2020

City of Worcester
Division of Planning and Regulatory Services
City Hall, 455 Main Street, Room 404
Worcester, MA 01608

RE: Notice of Intent
Webster Street Substation #6 – Replacement of 1 Breaker
Massachusetts Electric Company

Dear Worcester Conservation Commission:

BSC Group, Inc. (BSC) is pleased to submit this Notice of Intent (NOI) on behalf of the Massachusetts Electric Company d/b/a National Grid (MECO), for work associated with the replacement of one (1) breaker in poor condition at the Webster Street Substation #6 located at 59 Webster Street Worcester, Massachusetts. Eleven (11) breakers were recently replaced under a previous Order of Conditions (File #349-1218). However, an additional breaker was found to also be in poor condition and in danger of failing. This breaker will also need to be replaced. Similar to the other breakers, the new breaker will be slightly larger and will require the replacement and expansion of its existing concrete foundation pad.

The proposed activities will be located within FEMA Flood Zone AE. Therefore, work will be located within the state and local resource area Bordering Land Subject to Flooding (BLSF). Accordingly, this Notice of Intent is being submitted under the Massachusetts Wetlands Protection Act, M.G.L. c. 131 s.40 (WPA), its implementing regulations, 310 C.M.R. 10.00, and the City of Worcester Wetland Protection Ordinance and Regulations for work within previously disturbed BLSF and Worcester’s local SPZ. Please also note that the Project qualifies as a limited project in accordance with the WPA regulations (310 C.M.R. 10.53(3)(d)) which allows for “the construction, reconstruction, operation, and maintenance of underground and overhead public utilities.”

EXISTING CONDITIONS

The Webster Street Substation is located at 59 Webster Street, between Webster Street and Nixon Avenue, in Worcester, MA. (See Site Locus provided in Attachment A). The Substation site is bisected by the Middle River, which is entirely contained within a concrete channel on site. A portion of the river is covered by the foundation of a
former steam plant. This portion of the Middle River has no natural banks or vegetation. Both sides of the substation yard abutting the Middle River are composed of crushed gravel and separated from the channel by slightly raised (~1 foot) concrete walls. Project activities are proposed to be conducted within the previously disturbed Substation yard. Thus, the Project area is outside of the Middle River’s 25-foot Riverfront Area. The Project is located entirely within BLSF.

Bordering Land Subject to Flooding

As stated above, most of the Webster Street substation is located within Flood Zone AE (also known as the 100-year floodplain). Because the 100-year floodplain in this location is attributed to the Middle River, the resource area is characterized as BLSF. BLSF is defined by 310 CMR 10.57(2)(a) as, “...an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland. The boundary of BLSF is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm.”

According to the applicable Flood Insurance Rate Maps for Worcester (Community Panel 25027C0802E) dated July 4, 2011, the entire Project area is situated within the 100-year floodplain. The established base flood elevation at the substation is 476 feet. The 2013 surveyed elevation of the substation yard is approximately 471 feet.

Rare Species Summary

Rare species are protected under the Massachusetts Endangered Species Act (M.G.L. c. 131A) (MESA) and Regulations 321 C.M.R. 10.0, as well as 310 C.M.R. 10.59 of the WPA regulations where jurisdiction exists. The most current mapping available was reviewed (MassGIS 2017 Priority and Estimated Habitat data layers) and Estimated and Priority Habitat for rare species are not present within the Project area.

Stormwater Protection Zone

The City of Worcester Wetland Protection Ordinance also regulates activity within 100-feet of a catch basin that may outlet to wetlands and waterways. This area is known as the Stormwater Protection Zone (SPZ). There are no stormwater catch basins on the substation site, but, there are several catch basins located along the adjacent roadways including along Webster Street. However, this breaker proposed for replacement is not located within the SPZ.

Other Resource Areas

No other sensitive resource areas such as Potential Vernal Pools (PVP) or Certified Vernal Pools (CVP), Outstanding Resource Waters (ORW), or Areas of Critical Environmental Concern (ACEC) were identified within the Project Area.
PROPOSED ACTIVITIES AND OTHER ANTICIPATED IMPACTS

Construction equipment will access the work areas directly from Webster Street, the substation driveway, and existing paved and gravel access roads within the substation. The following Project elements are proposed as part of this application:

- Replacement of one (1) breaker located within the substation yard.
- Replacement of the associated concrete foundation pad situated beneath the breaker.
  - Removal of the free-standing breaker
  - Installation of new concrete foundation slightly larger than the previous foundation

The Proposed activities include replacing the existing aged breaker with a new, larger breaker. The larger breaker are the only sizes readily available and cannot be replaced with the same size equipment. The increase in size requires the installation of slightly larger concrete foundation. Approximately 11 square feet of additional concrete is needed for the new breaker, for a total of 11 square feet of additional concrete foundation within BLSF.

LIMITED PROJECT STATUS

The Project qualifies as a Limited Project under 310 CMR 10.53(3)(d) which allows the “…construction, reconstruction, operation and maintenance of underground and overhead public utilities…” in accordance with several general conditions, including "best available measures shall be used to minimize adverse impacts during construction and the surface vegetation and contours of the area shall be substantially restored.” As part of the Project, MECO will utilize best management practices (BMPs) to protect and limit impacts to resource areas.

ALTERNATIVES ANALYSIS

The Project has been designed to avoid, minimize, and mitigate wetland resource area impacts to the maximum extent practicable. The proposed project is the only viable option. The breaker is in poor condition and at risk of failing which could result in interruption of electric supply to the region.

The only option is replacing the breaker with a slightly larger one. Breakers of similar size are not readily available. Therefore, there are no other feasible alternatives resulting in less impact. All work is proposed within the previously disturbed areas of the Substation. The breaker replacement will occur within the same location as the existing breaker. The work is necessary to ensure MECO continues to provide continuous reliable electric supply to the region.
COMPLIANCE WITH WPA AND WORCESTER WETLAND ORDINANCE

The proposed Project is consistent with the site’s current use as an electric substation. The substation site is previously disturbed and has been used for utility activities for decades. The Project maximizes use of the existing space within the substation yard, and no significant permanent impacts are proposed. The breaker is old and at risk for failing and therefore, needs to be replaced to ensure system reliability.

Work within BLSF includes those activities needed for the infrastructure and concrete foundation installation only. As described, the proposed substation upgrades will result in displacement of approximately 11 cubic feet of flood storage within the 100-year floodplain. The impact will occur within the previously disturbed substation yard and can be considered minor.

Per 310 CMR 10.57(4), compensatory flood storage must be provided for any flood storage lost due to the Project. No loss of flood storage from the Project is expected as full compensation will be provided through removal of additional pavement from the previously approved compensatory mitigation area on site. An additional 24’ x 3’ area of pavement will be removed and backfilled with clean stone to fully mitigate for the additional fill in floodplain. This area will be adjacent to the previous 24’ x 24’ area created and approved under the previous Order of Conditions (File #349-1218).

The pavement will be replaced with permeable stone which will allow storage of flood waters in a previously impervious location. Clean angular 3/4-inch stone will be used and has a porosity of 40%. This means the void space between the stone will hold ~40% of flood waters. As a result, approximately 14 cubic feet of compensatory flood storage will be provided (24’ x 3’ x 0.5’ x .40 = 14 CF). Please refer to the attached Environmental Resources map for the compensatory storage mitigation site location.

CONSTRUCTION AND BEST MANAGEMENT PRACTICES

MECO has established environmental procedures and BMPs that are to be followed by all employees and its contractors for accessing sites and performing construction activities on all facilities, including within substations (See EG-303NE National Grid’s Access Maintenance and Construction Best Management Practices provided in Attachment D).

Erosion and Sediment Controls

Equipment will access the work area through the existing access drive and remain within the previously developed areas. There will be minimal grading associated with this Project and erosion and sediment controls, will be placed, if needed, to prevent off site sedimentation. Proposed erosion and sediment control measures may include haybales, straw wattles, fiber rolls, or similar treatment.
Ground disturbance associated with the Project will be limited to the installation of the breaker foundation. Displaced soils will be managed away from wetland resource areas and will be either used as backfill or disposed of appropriately offsite. Soil piles to be removed from the site will be ringed with sediment controls unless the stockpile is temporary (few days storage) for reuse onsite.

**Stormwater Management**

The proposed activities will consist of new construction and redevelopment of previously disturbed areas. No grading or paving within the Substation yard is required as part of the Project. The Project will not result in a significant increase of impervious surfaces within the substation.

The site will continue to attenuate and treat stormwater runoff as well as provide groundwater recharge within the Substation, through the crushed stone. During construction, sediment and erosion controls will be installed to ensure protection of the adjacent resource areas. As a result, the Project, and the Webster Street Substation itself, are expected to continue to function as it does currently.

**Dewatering and Concrete Washout Areas**

If dewatering is necessary for the installation of the new foundations, discharge water will be pumped into a dewatering basin consisting of a filter bag with hay/straw bale or silt fence perimeter controls which will be located in approved areas outside wetland resource areas. The pump intake hose will not be allowed to set on the bottom of the excavation throughout dewatering. The basin and all accumulated sediment will be disposed of properly.

In addition, designated concrete washout areas will also be provided. Concrete washout water will not be deposited or discharged directly on the ground, in wetlands or waterbodies, or in catch basins or other drainage structures. Concrete washouts will be located as far away from the resource areas as possible (exact location to be determined during construction). Following the completion of concrete pouring operations, the wash outs will be disposed of off-site.

Please refer to the Sediment Control Details as described in National Grid's Environmental Guidance Document (EG-303NE) provided in Attachment E.

**Restoration**

Disturbed areas will be stabilized and the construction site will be returned to the pre-construction conditions. Construction materials, vehicles, and non-biodegradable sediment controls will be removed from the site upon completion of the work.
CONCLUSION

The work is needed to ensure system reliability in the region through the replacement of old infrastructure within the Webster Street Substation. The proposed activities will occur within BLSF only. However, the proposed Project will:

- Minimize disturbance by utilizing existing disturbed sites to the greatest extent practicable
- Fully compensate for the permanent impacts to BLSF
- Maximize usage of uplands to the greatest extent practicable
- Utilize appropriate construction BMPs to protect wetland resource areas from sedimentation and soil disturbance during construction

Due to the emergent need for infrastructure replacement to ensure system reliability, we request that the Worcester Conservation Commission find this proposal adequately protective of the public interests identified in the WPA and the City of Worcester Wetlands Protection Ordinance and issue an Order of Conditions allowing the Project to proceed as described herein.

Enclosed please the WPA Form 3, a USGS Site Locus Map, an Environmental Constraints Map, abutter information, and Best Management Practices. If you have any questions regarding the enclosed information, please contact me at (617) 896-4517. Thank you for your consideration in this matter.

Please do not hesitate to contact our office with any inquiries you may have.

Very truly yours,

BSC Group, Inc.

Melissa Kaplan, P.W.S.
Manager of Ecological Sciences - CT

cc: MassDEP Central Region
Andrea Agostino, National Grid
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MASSACHUSETTS ELECTRIC COMPANY
WEBSTER STREET SUBSTATION BREAKER REPLACEMENT
NOTICE OF INTENT

WPA FORM 3 NOTICE OF INTENT
WORCESTER WETLANDS PROTECTION ORDINANCE
STATEMENT OF FEE CALCULATION
ATTACHMENT A SITE FIGURES
ATTACHMENT B ABUTTER INFORMATION AND NOTIFICATION
ATTACHMENT C NATIONAL GRID’s EG-303 BEST MANAGEMENT PRACTICES
A. General Information

1. Project Location (Note: electronic filers will click on button to locate project site):

   29 Webster Street
   a. Street Address
   Worcester
   b. City/Town
   01603
   c. Zip Code
   Latitude and Longitude:
   42.244180
   d. Latitude
   -71.832048
   e. Longitude
   f. Assessors Map/Plat Number
   031-00007
   g. Parcel /Lot Number

2. Applicant:

   Andrea
   a. First Name
   Agostino
   b. Last Name
   Massachusetts Electric Company
   c. Organization
   40 Sylvan Road
   d. Street Address
   Waltham
   e. City/Town
   MA
   f. State
   02451
   g. Zip Code
   781-907-3649
   h. Phone Number
   andrea.agostino@nationalgrid.com
   i. Email Address

3. Property owner (required if different from applicant): □ Check if more than one owner

   a. First Name
   b. Last Name
   c. Organization
   d. Street Address
   e. City/Town
   f. State
   g. Zip Code
   h. Phone Number
   i. Fax Number
   j. Email Address

4. Representative (if any):

   Melissa
   a. First Name
   Kaplan
   b. Last Name
   BSC Group, Inc.
   c. Company
   33 Waldo Street
   d. Street Address
   Worcester
   e. City/Town
   MA
   f. State
   01608
   g. Zip Code
   617-896-4517
   h. Phone Number
   mkaplan@bscgroup.com
   i. Fax Number
   j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

   $500.00
   a. Total Fee Paid
   $237.50
   b. State Fee Paid
   $362.50
   c. City/Town Fee Paid
A. General Information (continued)

6. General Project Description:

Massachusetts Electric Company (MECO) proposes to replace 1 additional breaker in poor condition within the Webster Street Substation in Worcester. The breaker is old and at risk for failing. The new breaker will be slightly larger and will require the replacement and expansion of the existing concrete foundation pads, resulting in approximately 11 sf of impacts to BLSF.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

1. [ ] Single Family Home  2. [ ] Residential Subdivision
3. [ ] Commercial/Industrial  4. [ ] Dock/Pier
5. [x] Utilities  6. [ ] Coastal engineering Structure
7. [ ] Agriculture (e.g., cranberries, forestry)  8. [ ] Transportation
9. [ ] Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. [x] Yes  [ ] No

If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

310 C.M.R. 10.53(3)(d) - The construction, reconstruction, operation, and maintenance of underground and overhead public utilities

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Worcester
a. County   b. Certificate # (if registered land)
1981       134
c. Book   d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

1. [ ] Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2. [x] Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.
**Massachusetts Department of Environmental Protection**
**Bureau of Resource Protection - Wetlands**

**WPA Form 3 – Notice of Intent**
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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**B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont’d)**

<table>
<thead>
<tr>
<th>Resource Area</th>
<th>Size of Proposed Alteration</th>
<th>Proposed Replacement (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. ☐ Bank</td>
<td>1. linear feet</td>
<td>2. linear feet</td>
</tr>
<tr>
<td>b. ☐ Bordering Vegetated Wetland</td>
<td>1. square feet</td>
<td>2. square feet</td>
</tr>
<tr>
<td>c. ☐ Land Under Waterbodies and Waterways</td>
<td>1. square feet</td>
<td>2. square feet</td>
</tr>
<tr>
<td></td>
<td>3. cubic yards dredged</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resource Area</th>
<th>Size of Proposed Alteration</th>
<th>Proposed Replacement (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>d. ☒ Bordering Land Subject to Flooding</td>
<td>11 1. square feet</td>
<td>72 2. square feet</td>
</tr>
<tr>
<td></td>
<td>11 3. cubic feet of flood storage lost</td>
<td>14 4. cubic feet replaced</td>
</tr>
<tr>
<td>e. ☐ Isolated Land Subject to Flooding</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. cubic feet of flood storage lost</td>
<td>3. cubic feet replaced</td>
</tr>
<tr>
<td>f. ☐ Riverfront Area</td>
<td>1. Name of Waterway (if available)</td>
<td></td>
</tr>
</tbody>
</table>

2. Width of Riverfront Area (check one):

- ☐ 25 ft. - Designated Densely Developed Areas only
- ☐ 100 ft. - New agricultural projects only
- ☐ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet
b. square feet within 100 ft.
c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI?  ☐ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996?  ☐ Yes ☐ No

3. ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)
B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont’d)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

<table>
<thead>
<tr>
<th>Resource Area</th>
<th>Size of Proposed Alteration</th>
<th>Proposed Replacement (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. ☐ Designated Port Areas</td>
<td>Indicate size under Land Under the Ocean, below</td>
<td></td>
</tr>
<tr>
<td>b. ☐ Land Under the Ocean</td>
<td>1. square feet</td>
<td>2. cubic yards dredged</td>
</tr>
<tr>
<td>c. ☐ Barrier Beach</td>
<td>Indicate size under Coastal Beaches and/or Coastal Dunes below</td>
<td></td>
</tr>
<tr>
<td>d. ☐ Coastal Beaches</td>
<td>1. square feet</td>
<td>2. cubic yards beach nourishment</td>
</tr>
<tr>
<td>e. ☐ Coastal Dunes</td>
<td>1. square feet</td>
<td>2. cubic yards dune nourishment</td>
</tr>
<tr>
<td>f. ☐ Coastal Banks</td>
<td>1. linear feet</td>
<td></td>
</tr>
<tr>
<td>g. ☐ Rocky Intertidal Shores</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td>h. ☐ Salt Marshes</td>
<td>1. square feet</td>
<td>2. sq ft restoration, rehab., creation</td>
</tr>
<tr>
<td>i. ☐ Land Under Salt Ponds</td>
<td>1. square feet</td>
<td></td>
</tr>
<tr>
<td>j. ☐ Land Containing Shellfish</td>
<td>2. cubic yards dredged</td>
<td></td>
</tr>
<tr>
<td>k. ☐ Fish Runs</td>
<td>Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above</td>
<td></td>
</tr>
<tr>
<td>l. ☐ Land Subject to Coastal Storm Flowage</td>
<td>1. cubic yards dredged</td>
<td></td>
</tr>
</tbody>
</table>

4. ☐ Restoration/Enhancement
   If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.
   a. square feet of BVW 
   b. square feet of Salt Marsh

5. ☐ Project Involves Stream Crossings
   a. number of new stream crossings 
   b. number of replacement stream crossings
C. Other Applicable Standards and Requirements

☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Notice of Intent – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

   a. ☐ Yes ☒ No

      If yes, include proof of mailing or hand delivery of NOI to:

      Natural Heritage and Endangered Species Program
      Division of Fisheries and Wildlife
      1 Rabbit Hill Road
      Westborough, MA 01581

      August 2017

      b. Date of map

   If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.1.f, if applicable.

   c. Submit Supplemental Information for Endangered Species Review*

      1. ☐ Percentage/acreage of property to be altered:

         (a) within wetland Resource Area percentage/acreage

         (b) outside Resource Area percentage/acreage

      2. ☐ Assessor's Map or right-of-way plan of site

      2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

         (a) ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

         (b) ☐ Photographs representative of the site

* Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.
C. Other Applicable Standards and Requirements (cont’d)

(c) ☐ MESA filing fee (fee information available at [http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm](http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm)). Make check payable to “Commonwealth of Massachusetts - NHESP” and mail to NHESP at above address.

Projects altering 10 or more acres of land, also submit:

(d) ☐ Vegetation cover type map of site

(e) ☐ Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. ☐ Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, [http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm); the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing. a. NHESP Tracking #  b. Date submitted to NHESP

3. ☐ Separate MESA review completed. Include copy of NHESP “no Take” determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. ☒ Not applicable – project is in inland resource area only b. ☐ Yes ☐ No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694
Email: [DMF_EnvReview.South@state.ma.us](mailto:DMF_EnvReview.South@state.ma.us)

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: [DMF_EnvReview.North@state.ma.us](mailto:DMF_EnvReview.North@state.ma.us)

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP’s Boston Office. For coastal towns in the Southeast Region, please contact MassDEP’s Southeast Regional Office.
C. Other Applicable Standards and Requirements (cont’d)

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
   a. ☐ Yes ☒ No
      If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). Note: electronic filers click on Website.
   b. ACEC

5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
   a. ☐ Yes ☒ No

6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
   a. ☐ Yes ☒ No

7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
   a. ☒ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
      1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
      2. ☒ A portion of the site constitutes redevelopment
      3. ☒ Proprietary BMPs are included in the Stormwater Management System.
   b. ☐ No. Check why the project is exempt:
      1. ☐ Single-family house
      2. ☐ Emergency road repair
      3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. ☒ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)

2. ☒ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
D. Additional Information (cont’d)

3. ☐ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.

Webster Street Substation Environmental Constraints

a. Plan Title
   BSC Group

b. Prepared By
   04-21-2020

c. Signed and Stamped by
   1 inch = 75 feet

d. Final Revision Date
   1 inch = 75 feet

e. Scale
   USGS Locus Map

f. Additional Plan or Document Title

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. ☒ Attach NOI Wetland Fee Transmittal Form


E. Fees

1. ☐ Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

<table>
<thead>
<tr>
<th>2323</th>
<th>4/27/2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Municipal Check Number</td>
<td>3. Check date</td>
</tr>
<tr>
<td>e-file</td>
<td>4. Check date</td>
</tr>
<tr>
<td>4. State Check Number</td>
<td>5. Check date</td>
</tr>
<tr>
<td>BSC Companies</td>
<td>6. Payor name on check: First Name</td>
</tr>
<tr>
<td>6. Payor name on check: Last Name</td>
<td>7. Payor name on check: Last Name</td>
</tr>
</tbody>
</table>
F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant
2. Date
3. Signature of Property Owner (if different)
4. Date
5. Signature of Representative (if any)
6. Date

4/22/2020
4/23/2020

For Conservation Commission:
Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:
One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:
If the applicant has checked the “yes” box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.
Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**A. Applicant Information**

1. Location of Project:
   - 29 Webster Street
   - a. Street Address
   - Worcester
   - b. City/Town
   - $500
   - c. Check number
   - d. Fee amount

2. Applicant Mailing Address:
   - Andrea Agostino
   - Massachusetts Electric Company
   - 40 Sylvan Road
   - c. Organization
   - d. Mailing Address
   - Waltham
   - e. City/Town
   - MA 02451-1120
   - f. State
   - g. Zip Code
   - 781-907-3649
   - h. Phone Number
   - i. Fax Number
   - j. Email Address

3. Property Owner (if different):
   - a. First Name
   - b. Last Name
   - c. Organization
   - d. Mailing Address
   - e. City/Town
   - f. State
   - g. Zip Code
   - h. Phone Number
   - i. Fax Number
   - j. Email Address

**B. Fees**

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

**Step 1/Type of Activity:** Describe each type of activity that will occur in wetland resource area and buffer zone.

**Step 2/Number of Activities:** Identify the number of each type of activity.

**Step 3/Individual Activity Fee:** Identify each activity fee from the six project categories listed in the instructions.

**Step 4/Subtotal Activity Fee:** Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

**Step 5/Total Project Fee:** Determine the total project fee by adding the subtotal amounts from Step 4.

**Step 6/Fee Payments:** To calculate the state share of the fee, divide the total fee in half and subtract $12.50. To calculate the city/town share of the fee, divide the total fee in half and add $12.50.
### B. Fees (continued)

<table>
<thead>
<tr>
<th>Step 1/Type of Activity</th>
<th>Step 2/Number of Activities</th>
<th>Step 3/Individual Activity Fee</th>
<th>Step 4/Subtotal Activity Fee</th>
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</thead>
<tbody>
<tr>
<td>Cat 2(e) Inland Limited Project</td>
<td>1</td>
<td>$500</td>
<td>$500</td>
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</tr>
</tbody>
</table>

**Step 5/Total Project Fee:** $500.00

**Step 6/Fee Payments:**

- **Total Project Fee:** $500.00
  - a. Total Fee from Step 5
  - $237.50
- **State share of filing Fee:** $237.50
  - b. 1/2 Total Fee less $12.50
- **City/Town share of filing Fee:** $262.50
  - c. 1/2 Total Fee plus $12.50

### C. Submittal Requirements

a. Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection  
Box 4062  
Boston, MA 02211

b. To the Conservation Commission: Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and a copy of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)
Webster St Breaker Replacement

Environmental Resources Map

Worcester, MA

Table 1. Compensatory Flood Storage Volumetric Calculations

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation</th>
<th>Size</th>
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<tbody>
<tr>
<td>1 New Breaker Foundation</td>
<td>471'-'472'</td>
<td>11 CF</td>
</tr>
<tr>
<td>Compensatory Flood Storage Area</td>
<td>470.5'-'471'</td>
<td>14 CF*</td>
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*Clean angular 3/4" stone has a porosity of 40%. The voidspace between the stone will hold ~40% of flood waters. 24' x 3' x 0.5' x 40% = 14 CF
ATTACHMENT B

MASSACHUSETTS ELECTRIC COMPANY
WEBSTER STREET SUBSTATION BREAKER REPLACEMENT
NOTICE OF INTENT

ABUTTER INFORMATION and NOTIFICATION
NOTICE OF INTENT
ABUTTER NOTIFICATION LETTER

RE: Worcester Conservation Commission
    Notice of Public Hearing

To Whom It May Concern,

As an abutter within 100-feet of a proposed project, please be advised that a NOTICE OF INTENT application has been filed with the Worcester Conservation Commission under the Massachusetts Wetlands Protection Act and the City of Worcester Wetlands Protection Ordinance and Regulations.

APPLICANT: Massachusetts Electric Company

PROJECT LOCATION: 29 Webster Street (Webster Street Substation #6)

PROJECT DESCRIPTION: Massachusetts Electric Company (MECO) is seeking an Order of Conditions from the Worcester Conservation Commission to replace a failing breaker within the Webster Street Substation #6. The purpose of the project is to allow MECO to continue to provide safe and reliable electric service to the area.

APPLICANT’S AGENT: BSC Group, Inc. (Attn: Melissa Kaplan)
33 Waldo Street
Worcester, MA 01608
617-896-4517

PUBLIC HEARING: Worcester City Hall
Levi Lincoln Chambers (Room 309), 3rd Floor City Hall
455 Main Street

DATE AND TIME: Please contact the Worcester Conservation Commission for Date and Time information.

NOTE: You may consult a copy of the Worcester Telegram and Gazette for more information regarding the time and date of the public hearing, or contact the Worcester Conservation Commission at 508-799-1454.

Plans and an application describing the proposed project are on file with the Worcester Conservation Commission at 508-799-1454.

You also may contact the Department of Environmental Protection, Central Regional Office at (508) 792-7650 for more information about this application or the Wetlands Protection Act.
CITY OF WORCESTER, MASSACHUSETTS

Edward M. Augustus, Jr.             John H. Valade, MAA
City Manager     Acting City Assessor

Administration and Finance
Division of Assessing

Certified Abutters List

A list of 'parties in interest' shall be attached to the application form and shall include the names and addresses. All such names and addresses shall be obtained from the most recent applicable tax list maintained by the City’s Assessing Department. The Assessing Department certifies the list of names and addresses.

<table>
<thead>
<tr>
<th>Total Count:</th>
<th>22</th>
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<tr>
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<table>
<thead>
<tr>
<th>Owner:</th>
<th>National Grid</th>
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<tbody>
<tr>
<td>Owner Mailing:</td>
<td>Massachusetts Electric Co. Property Tax Department 40 Sylvan Road Waltham, MA 02451</td>
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<table>
<thead>
<tr>
<th>Petitioner (if other than owner):</th>
<th>Melissa Kaplan</th>
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<tbody>
<tr>
<td>Petitioner Mailing Address:</td>
<td>Glastonbury, CT 06033</td>
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</table>

<table>
<thead>
<tr>
<th>Petitioner Phone:</th>
<th>617-971-8879</th>
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<table>
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<tr>
<th>Parcel Address:</th>
<th>29 Webster Street</th>
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<tr>
<td>Assessor’s Map-Block-Lot(s):</td>
<td>08-031-00007</td>
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<th>Variance:</th>
<th>ConComm:</th>
<th>Planning:</th>
<th>Definitive Plan:</th>
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<tr>
<td>Liquor:</td>
<td>Special Permit:</td>
<td>Historical:</td>
<td>Other:</td>
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<table>
<thead>
<tr>
<th>08-031-0006C</th>
<th>T + K REAL ESTATE HOLDINGS LLC</th>
<th>0088 PROVIDENCE ST</th>
<th>WORCESTER MA 01604</th>
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<tbody>
<tr>
<td>08-031-0005</td>
<td>CITY OF WORCESTER DPW</td>
<td>20 EAST WORCESTER ST</td>
<td>WORCESTER MA 01604</td>
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<tr>
<td>08-032-00001</td>
<td>HANLON PAUL P + BRIAN J</td>
<td>0054 HEMLOCK ST</td>
<td>LEICESTER MA 01524</td>
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<td>08-031-0003</td>
<td>NEW ENGLAND POWER COMPANY</td>
<td>40 SYLVAN RD</td>
<td>WALTHAM MA 02451</td>
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<tr>
<td>08-032-00010</td>
<td>I.B.BARROWS COMPANY INC</td>
<td>0015 WEBSTER ST</td>
<td>WORCESTER MA 01603</td>
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<tr>
<td>08-032-00006</td>
<td>GCV 916 LLC</td>
<td>0285 MASSASOIT RD</td>
<td>WORCESTER MA 01604</td>
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<td>08-030-04+05</td>
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<td>08-031-00025</td>
<td>HANLON PAUL P + BRIAN J</td>
<td>0018 CAMBRIDGE ST</td>
<td>WORCESTER MA 01603</td>
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<tr>
<td>08-031-00002</td>
<td>CITY OF WORCESTER</td>
<td>0455 MAIN STREET</td>
<td>WORCESTER MA 01608</td>
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<tr>
<td>08-032-00017</td>
<td>SHELTER OF MOST HIGH PENTECOSTAL</td>
<td>489 GRAND STREET</td>
<td>BROOKLYN NY 11211</td>
</tr>
<tr>
<td>08-031-00007</td>
<td>NATIONAL GRID</td>
<td>40 SYLVAN RD</td>
<td>WALTHAM MA 02451</td>
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<tr>
<td>08-032-00005</td>
<td>HANLON PAUL P + BRIAN J</td>
<td>16 CAMBRIDGE ST</td>
<td>WORCESTER MA 01603</td>
</tr>
<tr>
<td>08-032-00008</td>
<td>I B BARROWS COMPANY INC</td>
<td>15 WEBSTER ST</td>
<td>WORCESTER MA 01603</td>
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<tr>
<td>08-033-00004</td>
<td>RED APPLE WORCESTER MA LLC</td>
<td>461 NOTT STREET</td>
<td>SCHENECTADY NY 12308</td>
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<tr>
<td>08-032-00012</td>
<td>9 NIXON AVE LLC</td>
<td>0364 RIVER RD</td>
<td>HUDSON MA 01749</td>
</tr>
</tbody>
</table>
This is to certify that the above is a list of abutters to Assessor's Map-Block-Lot(s) 08-031-00007 as cited above.

Certified by: [Signature] 4/22/2020
ATTACHMENT C

MASSACHUSETTS ELECTRIC COMPANY
WEBSTER STREET SUBSTATION BREAKER REPLACEMENT
NOTICE OF INTENT

NATIONAL GRID’s EG-303 BEST MANAGEMENT PRACTICES
1. THE GROUND SHALL BE PREPARED TO PROVIDE COMPLETE CONTACT WITH THE BALES.
SUBJECT
Access, Maintenance and Construction
Best Management Practices

REFERENCE
EP No. 3 - Natural Resource Protection (Chapter 6)

BMP DETAIL

BMP PICTURE

SEC-2
SEDIMENT CONTROL FENCE
**BMP DETAIL**

- **SCALE:** NONE
- **1"x1"x48" HARDWOOD STAKE AT 8'-0" MAX. O.C.**
- **6"x6" EARTH BACKFILL**
- **UNDISTURBED EARTH**
- **EXISTING GROUND**

**NOTES:**

1. **BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.**
2. **BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO (2) 1"x1"x36" HARDWOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALES TO FORCE BALES TOGETHER.**
3. **INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.**
4. **BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPED STORM FLOW OR DRAINAGE.**
5. **BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE.**
6. **BALES TO BE TWINE BOUND.**

**BMP PICTURE**

*Image of a silt fence with hay bales.*

---

**APPROVED BY:** VICE PRESIDENT, ENVIRONMENTAL SERVICES

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.
**BMP DETAIL**

2" x 2" x 36" HARDWOOD STAKES PLACED 10' O.C.

- **FILTREXX SOXX** (12" TYP.; 8" & 18" OPTIONAL)

**AREA TO BE PROTECTED**

**WORK AREA**

**SEC-4**

**SILT SOXX**

**NOTES**

1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
4. MESH CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" – 3/8".
5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
CIRCLED NUMBERS CORRESPOND TO INSTALLATION NOTES FOR THIS STRAW WATTLE BMP DETAIL (TYP.)

1. PRODUCT TO BE TENSAR NORTH AMERICAN GREEN STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT. COORDINATE SPACING AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
3. MINIMUM 12" DIAMETER WATTLE SHOULD BE USED FOR HIGHLY DISTURBED AREAS (I.E., HEAVILY USED ACCESS ROAD WITH ADJACENT WETLAND) AND MINIMUM 9-10" WATTLE SHOULD BE USED FOR LESS DISTURBED SOILS.

INSTALLATION NOTES:
1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTELES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24" HARDWOOD STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.
ALTERNATE STAKING INSTALLATION NOTES:

1. ON SHALLOW SLOPES (≤4:1), STRAW WATTLE MAY BE SECURED WITH 18–24” HARDWOOD STAKES DRIVEN AGAINST THE SIDES OF THE WATTLE INSTEAD OF THROUGH. STAKES SHALL ALTERNATE SIDES, AND BE SPACED 3–4’ MAX.
2. TWINE SHALL BE TIED FROM STAKE TO STAKE, CRISS-CROSSING THE STRAW WATTLE. TIE TWINE TO STAKES BELOW THE HEIGHT OF THE WATTLE.