



## Bureau of Resource Protection - Wetlands

Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act (M.G.L. c.131 s.40)

New Bedford Wetlands Ordinance

# New Bedford Regional Airport Gravel Access Road and Obstruction Lighting Project



*Submitted to:*

**New Bedford Conservation Commission**  
133 William Street, Room 304  
New Bedford, MA 02740

**MassDEP Southeast Regional Office**

20 Riverside Drive  
Lakeville, Massachusetts 02347

*Prepared for:*

**New Bedford Regional Airport Commission**  
1569 Airport Road  
New Bedford, MA 02746

*Submitted by:*

**Epsilon Associates, Inc.**  
3 Clock Tower Place, Suite 250  
Maynard, MA 01754

January 7, 2016

**Epsilon**  
ASSOCIATES INC.



#4057/New Bedford Airport EA 5 Yr. Master Plan/Access Road NOI

January 7, 2016

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New Bedford Environmental Stewardship - Conservation Commission  
New Bedford City Hall  
133 William Street  
New Bedford, MA 02740

**Subject: Notice of Intent – Proposed Gravel Access Road and Obstruction Lighting Project; New Bedford Regional Airport, New Bedford, MA.**

Dear Commissioners:

Enclosed please find two copies of the above referenced Notice of Intent (“NOI”) filed in accordance with the Massachusetts Wetlands Protection Act (“WPA”) (M.G.L. c. 131 § 40) and implementing regulations (310 CMR 10.00) and the City of New Bedford Wetlands Ordinance (Article 89). As per the Commission’s filing requirements please also find two full size plan sets. The New Bedford Regional Airport is exempt from local and state filing fees because it is a municipal agency. A butters to the property have been notified in accordance with state and local regulations. Proof of mailing will be provided to the Commission at the public hearing.

As explained in further detail in the enclosed NOI, the New Bedford Regional Airport Commission (the “Applicant”) is proposing to construct a new approximately 20 feet wide gravel access road between the Airport and New Plainville Road for dedicated Airport use and emergency access. The proposed gravel access road would be used only for airport-related activities, including emergency vehicle access, airport security, and future airport construction activities. The access road would be gated and closed for public use. This road will allow construction equipment to directly access the Airport via a dedicated and secure road through an unpopulated area, alleviating concerns identified by the Shawmut Avenue neighborhood who have expressed concern with construction vehicles accessing the Airport through their neighborhood. In general, the proposed gravel access road work involves constructing a full-depth gravel access road, appropriate side slopes and fencing to restrict access along the Airport perimeter.

New Bedford Conservation Commission  
January 7, 2016

The Airport also needs to install obstruction lighting to address Federal Aviation Administration ("FAA") regulations at the Runway 23 approach end (near New Plainville Road) and at the Runway 32 end (near Downey Street) for airspace surface violations associated with FAA regulations (14 CFR Part 77). Currently both roads, New Plainville Road and Downey Street, create obstruction hazards to each runway approach surface. Obstruction lighting along the roadways will prevent relocation of the approach ends and loss of runway lengths.

Activities are proposed within Bordering Vegetated Wetlands and the associated 100-foot Buffer Zone and are subject to review by the City of New Bedford Conservation Commission under the Massachusetts Wetlands Protection Act and the City of New Bedford Wetlands Ordinance.

The majority of the project has been located outside the 100 foot buffer zone to wetland resource areas. However, the proposed gravel access road is constrained by property ownership lot lines and wetland resource areas immediately adjacent to New Plainville Road; as a result the proposed gravel access road will fill approximately 1,170 square feet of BVW. Additionally, it is anticipated that one of the obstruction lights at the Runway 23 approach end will need to be located in BVW. As a result, approximately five square feet of permanent impact and up to 1,400 square feet of temporary impact to BVW is required to install underground conduit and provide construction access via to temporarily installation of timber swamp mats, or equivalent. The BVW will be restored to its preexisting condition at the conclusion of the project. To mitigate these unavoidable impacts the Airport proposes to construct an approximately 1,400 square foot wetland replication area (approximately 20 percent greater mitigation to impact area). Alterations to the BVW have been avoided and minimized to the maximum extent practicable. Activities proposed in the 100 foot Buffer Zone to BVW or Bank has been designed to comply with the Commission's suggested 25-foot resource area setback zone to the maximum extent practicable; and proposed loss of BVW will be replaced on site at an approximately 1.2:1 ratio of replacement to filled wetland. Refer to the NOI for additional detail.

New Bedford Conservation Commission  
January 7, 2016

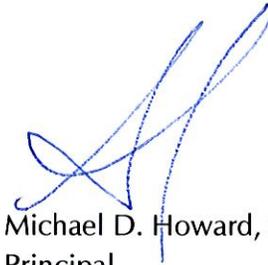
The enclosed NOI is being submitted for the Commission's review at the **January 19, 2016** public hearing. If you have any questions regarding this application please do not hesitate to contact me at 978.461.6227 or via email at [aatwell@epsilonassociates.com](mailto:aatwell@epsilonassociates.com).

Thank you.

Sincerely,  
EPSILON ASSOCIATES, INC.



Amanda Atwell, CPSS  
Project Scientist



Michael D. Howard, PWS, CWS  
Principal

Encl.

CC: DEP Southeast Regional Office  
NHESP, David Paulson, Endangered Species Review Biologist  
Erick D`Leon, New Bedford Regional Airport Manager  
Craig Schuster, P.E., Airport Solutions Group, Inc.  
Nate Rawding, MassDOT Aeronautics Division  
File

## Notice of Intent

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### Massachusetts Wetlands Protection Act (M.G.L. c.131 §.40) New Bedford Wetlands Ordinance

**Applicant:**

New Bedford Regional Airport Commission  
1569 Airport Road  
New Bedford, MA 02746

**Prepared By:**

Epsilon Associates, Inc.  
3 Clock Tower Place, Suite 250  
Maynard, MA 01754

**In Association With:**

Airport Solutions Group, Inc.  
390 Main Street, Suite 100  
Woburn, MA 01801

January 7, 2016



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ATTACHMENT G – WETLAND REPLICATION AREA AND SUPPORTING DOCUMENTATION

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**WPA Form 3 – Notice of Intent**

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# WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

New Bedford

City/Town

## A. General Information (continued)

6. General Project Description:

Proposed gravel access road and obstruction lighting

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.  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.  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)

2. Limited Project Type

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:

Bristol

a. County

949; 1012; 930; 1294; 1152

c. Book

b. Certificate # (if registered land)

295; 22; Book 214;564; 182

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.  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.



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## B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	1,175 sf permanent, 1,400 temporary for const. access	1,400 sf 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - <b>specify coastal or inland</b>	

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.
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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)

**Note:** for coastal riverfront areas, please complete **Section B.2.f.** above.



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## 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.

Online Users:  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet 2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above 1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	

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



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## 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](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**

2008

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. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review\*

1.  Percentage/acreage of property to be altered:

(a) within wetland Resource Area <1%, 0.07 ac (for access road and obstruction lighting)

(b) outside Resource Area <1%, 1.2 ac (for access road and obstruction lighting)

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.



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## C. Other Applicable Standards and Requirements (cont'd)

(c)  MESA filing fee (fee information available at [http://www.mass.gov/dfwele/dfw/nhosp/regulatory\\_review/mesa/mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhosp/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/nhosp/regulatory\\_review/mesa/mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhosp/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.



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**Online Users:**  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

## 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.



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## 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.
 

New Bedford Regional Airport, Construct Gravel Access Road, and Construct Obstruction Lights NOI Permit Drawings	
Airport Solutions Group	Craig A. Schuster, P.E.
b. Prepared By	c. Signed and Stamped by
December 22, 2015	varies
d. Final Revision Date	e. Scale
Construct Gravel Access Road Runoff Analysis	December 2015
f. Additional Plan or Document Title	g. Date
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
9.  Attach Stormwater Report, if needed.

## 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:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payor name on check: First Name	7. Payor name on check: Last Name

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D. Additional Information

Property owners include:

123-3, 124-28, 125-22, 124-82, 128-32

City of New Bedford Airport Commission  
131 William Street  
New Bedford, Massachusetts 02740

124-14

Callaghan Sheila M c/o City of New Bedford  
133 William Street  
New Bedford, Massachusetts 02740

124-113

Ahavath Achim Congregation Inc  
145 Brownell Ave  
New Bedford, Massachusetts 02740



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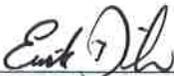
New Bedford

City/Town

## 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

1-4-16  
\_\_\_\_\_  
2. Date

3. Signature of Property Owner (If different)

4. Date

  
\_\_\_\_\_  
5. Signature of Representative (if any)

December 11, 2015  
\_\_\_\_\_  
6. Date

### 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.



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1. Signature of Applicant *Eric D. Jones*

3. Signature of Property Owner (if different) *[Signature]*

5. Signature of Representative (if any) *[Signature]*

2. Date 1-4-16

4. Date 1/6/16

6. Date December 11, 2015

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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.

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Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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City/Town

**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 *Eugene O'Neil*

3. Signature of Property Owner (if different) *Jeffrey H. ...*

5. Signature of Representative (if any) *[Signature]*

2. Date 12-22-15

4. Date December 15, 2015

6. Date December 11, 2015

**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

**Important:** When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



**A. Applicant Information**

1. Location of Project:

1569 Airport Road New Bedford  
 a. Street Address b. City/Town  
 Exempt - Municipal project  
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Erick D'Leon  
 a. First Name b. Last Name  
 New Bedford Regional Airport, Airport Manager  
 c. Organization  
 1569 Airport Road  
 d. Mailing Address  
 New Bedford MA 02746  
 e. City/Town f. State g. Zip Code  
 (508) 991-6161 Erick.D`Leon@newbedford-ma.gov  
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

a. First Name b. Last Name  
 City of New Bedford  
 c. Organization  
 133 William Street  
 d. Mailing Address  
 New Bedford MA 02740  
 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.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (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

**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Exempt - municipal project			

**Step 5/Total Project Fee:** \_\_\_\_\_

**Step 6/Fee Payments:**

Total Project Fee: Exempt  
 a. Total Fee from Step 5

State share of filing Fee: \_\_\_\_\_  
 b. 1/2 Total Fee **less** \$12.50

City/Town share of filing Fee: \_\_\_\_\_  
 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.)

Attachment A

Project Narrative

# ATTACHMENT A – PROJECT NARRATIVE

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## 1.0 Introduction

On behalf of the City of New Bedford Regional Airport Commission (the “Applicant” or the “Airport”), Epsilon Associates, Inc. (“Epsilon”) is pleased to submit this Notice of Intent (“NOI”) to the New Bedford Conservation Commission (“NBCC” or the “Commission”). The NOI was prepared in accordance with the Massachusetts Wetland Protection Act (MGL c.131 s.40) and implementing Regulations (310 CMR 10.00) (the “Act”) and the City of New Bedford Wetlands Ordinance (Amending Chapter 17, Section 17-18).

As explained in further detail below, the Airport proposes to construct a new approximately 20 foot wide gravel access road between the Airport and New Plainville Road for dedicated Airport use and emergency access. The proposed gravel access road would be used only for airport-related activities, including emergency vehicle access, airport security, and future airport construction activities. The access road would be gated and closed for public use. This road will allow construction equipment to directly access the Airport via a dedicated and secure road through an unpopulated area, alleviating concerns identified by the Shawmut Avenue neighborhood who have expressed concern with construction vehicles accessing the Airport through their neighborhood. In general, the proposed gravel access road work involves constructing a full-depth gravel access road, appropriate side slopes and fencing to restrict access along the Airport perimeter. A gate would be installed with an appropriate setback from New Plainville Road.

The Airport also needs to install obstruction lighting to address Federal Aviation Administration (“FAA”) regulations relative to protected airspace obstructions. Obstruction lights are necessary at the Runway 23 approach end (near New Plainville Road) and at the Runway 32 end (near Downey Street) for airspace surface violations associated with FAA regulations (14 CFR Part 77). Currently both roads, New Plainville Road and Downey Street, create obstruction hazards to each runway approach surface. Obstruction lighting along the roadways will prevent relocation of the approach ends and loss of runway lengths.

The majority of the access road and obstruction lighting work described herein is located outside the 100-foot buffer zone to wetland resource areas. However, the proposed gravel access road is constrained by property ownership lot lines and wetland resource areas immediately adjacent to New Plainville Road; as a result the proposed gravel access road will fill approximately 1,170 square feet of Bordering Vegetated Wetlands (“BVW”). Additionally, it is anticipated that one of the obstruction lights at the Runway 23 approach end will need to be located in BVW and permanently impact an additional approximately five (5) square feet. To mitigate these unavoidable impacts the Airport proposes to construct an approximately 1,400 square foot wetland replication area (approximately 1.2:1 ratio).

To construct the obstruction lighting, up to 1,400 square feet of temporary impact to BVW will occur. This temporary impact is a result of installation of underground conduit and installation

of temporary swamp mats which will provide access for construction of the light support and electrical conduit. Upon completion of the Project, all temporarily altered BVW will be substantially restored to its pre-existing condition.

Although work is proposed in BVW the project was designed to preserve the interests identified in the Wetlands Protection Act by complying with the general performance standards established at 310 CMR 10.55, including: avoiding and minimizing alteration of BVW to the greatest extent practicable; work proposed in the 100 foot buffer zone work was designed to comply with the Commission's 25-foot setback to the greatest extent practicable; and proposed permanent loss of BVW will be replaced on site at an approximately 1.2:1 ratio of replacement to filled wetland. Additional detail is described below and depicted on the permit drawings provided in Attachment F.

### **1.1 Project Purpose and Need**

The project purpose is to improve vehicular access to the airport property and improve aviation safety for aircraft operating at the Airport.

More specifically, the proposed obstruction lights are needed in order to address FAA regulations relative to protected airspace obstructions. Current FAA regulations describe how an airport addresses obstructions to navigable airspace identified in Code of Federal Regulations ("CFR"), Title 14, Part 77, *Objects Affecting Navigable Airspace*. According to the regulations, public roadways are assigned a 15-foot clearance above the roadway to account for large vehicles on the roadway. As a result, the Airport has identified airspace surface violations associated with two public roadways located in approach surfaces of Runway 23 and Runway 32; these are New Plainville Road and Downey Street, respectively. To provide an acceptable level of safety for airport operations, and recognizing that it is not practicable to modify the existing public roads, the airspace surface violations need to be identified by the installation of obstruction lights at both runway approach ends. The proposed northern access road, a small portion of which will be located in wetlands, is needed to provide improved construction access for this project and future projects, provide emergency vehicle access to the northern portion of the Airport, and direct construction traffic away from surrounding public roads at the strong urging of local residents and neighbors to the Airport.

## **2.0 Existing Conditions**

### **2.1 Site Locus**

The Project site is located at the New Bedford Regional Airport in New Bedford, Massachusetts (see Figure 1 – USGS Locus Map in Attachment B). Runway 5/23 is the Airports primary and instrument landing runway, while Runway 14/32 is the Airport's crosswind runway (see Figure 2 – Aerial Photo in Attachment B). Wetlands are located around the majority of the Airport, including extensive wetland systems located within the Runway 5 and 14 approaches (see Figure 3 – MassGIS Wetlands in Attachment B). According to the applicable USGS quadrangle, no streams are identified within the vicinity of the Project area (see Figure 1 in Attachment B).

Wetland resources within the entirety of New Bedford Regional Airport (including portions of the locations of work described herein) were delineated and surveyed between 1996 and 2000 and in 2003 through the MassDEP Variance proceedings associated with the larger Runway 5/23 Safety Improvements Project (MassDEP File Number SE 049-0635). The approved wetland lines are depicted on the enclosed drawings where they exist within close proximity to the proposed work. Additional wetland resource area boundaries not covered under the MassDEP Variance associated with the proposed gravel access road and located along the Runway 14 end were recently delineated and are described herein.

The proposed gravel access road is located north of Runway 14 end approach. The gravel access road is proposed to be located between the Airport and New Plainville Road on property owned by the City of New Bedford and the Aharath Achim Synagogue. The Aharath Achim Synagogue is currently negotiating a property land swap with the Airport for property in order to construct the access road. The majority of the wetland in the area of the proposed access road consists of early successional shrubs and forest or forested areas. There is a BVW located west of the proposed road location that is hydrologically connected to wetlands via culverts located under New Plainville Road.

The proposed obstruction lighting will be located on Airport property and immediately inside the existing fence by New Plainville Road at the Runway 23 approach, in the northeastern quadrant of the Airport; and immediately inside the existing fence by Downey Street at the Runway 32 approach, in the southeastern quadrant of the Airport. Obstruction lighting is proposed within mowed and maintained grass along the fence line of both New Plainville Road and Downey Street. One proposed obstruction light pole is located within BVW.

According to the applicable Federal Emergency Management Agency - Flood Insurance Rate Maps ("FEMA-FIRM"), Community Panel Numbers #255215C0387F, Revision Dates July 7, 2009, no work will occur within the "Zone A- Area of 100-Year Flood". Please see Figure 3 – Wetlands in Attachment B for FEMA mapping.

## **2.2 Wetland Resource Areas**

On August 28, 2015, wetland scientists from Epsilon Associates, Inc. and LEC Environmental reviewed the extent of state-wetland resource areas delineated by others (Vanasse Hangen Brustlin, Inc.) and previously approved by MassDEP within the vicinity of proposed work. In addition, Epsilon and LEC identified and delineated wetland resource areas in the vicinity of the proposed access road. Wetland resource areas in the vicinity of the Project area include Inland Bank, Land Under Water ("LUW"), and BVW.

### **2.2.1 Bordering Vegetated Wetlands**

BVW is defined in 310 CMR 10.55. BVWs are freshwater wetlands which border on creeks, rivers, streams, ponds and lakes. The types of freshwater wetlands are wet meadows, marshes, swamps and bogs. BVWs are areas where the soil is saturated and/or inundated such that they support a predominance of wetland indicator plants. The ground and surface water regime and

the plant community that occur in each type of freshwater wetland are specified in the Act. The boundary of BVW is the line within which 50 percent or more of the plant community consists of wetland indicator plants and saturated and inundated conditions exist. BVW is presumed significant to flood control, storm damage prevention, pollution attenuation, wildlife habitat, fisheries habitat, protection of public and private water supply, and protection of groundwater supply. Pursuant to the Act, there is a 100-foot Buffer Zone associated with BVW and the Commission's suggested 25 foot minimum setback under the Ordinance.

#### Proposed Access Road (Wetland Series 5 and 6):

BVW within the vicinity of the proposed access road Project area was delineated at the toe-of-slope to New Plainville Road. See 5-Series and 6-Series wetland flags depicted on the NOI permit drawings provided in Attachment F. The BVW is well defined and appears to be largely created by high groundwater conditions. This wetland system is hydrologically connected to wetlands across New Plainville Road via culvert. The wetland complex is predominantly forested wetland, identified as 5-Series and 6-Series. The BVW complex, identified by Wetland Series 5 and 6, is comprised primarily of red maple (*Acer rubrum*), white pine (*Pinus strobus*), swamp white oak (*Quercus bicolor*), highbush blueberry (*Vaccinium corymbosum*), maleberry (*Lyonia ligustrina*), sweet pepperbush (*Clethra alnifolia*) with cinnamon fern (*Osmunda cinnamomea*), sensitive fern (*Onoclea sensibilis*), greenbriar (*Smilax rotundifolia*) and poison ivy (*Toxicodendron radicans*) in the understory. Soils are organic, with either a histic epipedon or histosol (generally 8 to 40 inches of muck). Refer to the Wetland Determination Data Forms provided in Attachment G for additional detail.

#### Runway 23 Approach (Wetland Series G):

BVW within the vicinity of the proposed obstruction lighting for Runway 23 end approach was identified in the MassDEP Variance as wetland series G. The G series delineates an emergent and scrub-shrub wetland containing areas of ponded surface water. The area adjacent and partially within the Runway 23 Safety Area is actively managed through the Airport's VMP and dominant emergent vegetation includes wool grass (*Scirpus cyperinus*), soft rush (*Juncus effusus*) and goldenrod (*Solidago sp.*). Dominant scrub-shrub vegetation outside of the safety area includes sweet pepperbush, greenbriar, and red maple saplings.

#### Runway 32 Approach (Wetland Series K and P):

BVW within the vicinity of the proposed obstruction lighting for Runway 32 end approach was identified in the MassDEP Variance as wetland series K within the Airport's fence and wetland series P on the south side of Downey Street. The K series delineates an emergent wetland containing areas of ponded surface water that is actively managed through the Airport's VMP. Dominant emergent vegetation includes common reed (*Phragmites australis*), wool grass, soft rush and goldenrod. The P series delineates an emergent and scrub-shrub wetland containing areas of ponded surface water. Dominant emergent vegetation within the emergent portion of wetland P includes common reed, boneset (*Eupatorium perfoliatum*), sensitive fern, jewelweed

(*Impatiens capensis*), sedges (*Carex spp.*) and goldenrod. Wetland K and P are drained by an intermittent channel / drainage ditch, described below as Stream L.

### **2.2.2 Inland Bank & Land Under Water**

Inland Bank is defined in the Wetlands Protection Act Regulations at 310 CMR 10.54 as the portion of the land surface which normally abuts and confines a water body. It occurs between a water body and a BVW and adjacent floodplain, or, in the absence of these, it occurs between a water body and an upland. The upper boundary of bank is the first observable break in slope or the mean annual flood level, whichever is lower. The lower boundary of bank is the mean annual low flow level. There is a 100 foot Buffer Zone associated with Inland Bank and the Commission's suggested 25 foot minimum setback under the Ordinance.

LUW is defined in the Wetlands Protection Act Regulations at 310 CMR 10.56 as land beneath any creek, river, stream, pond or lake. Said land may be composed of organic muck or peat, fine sediments, rocks or bedrock. The boundary of LUW is the mean annual low water level. There is no Buffer Zone associated with LUW.

Stream L is a stormwater drainage ditch/man-made intermittent channel that drains Wetland L, Wetland K and flows into the Airport's stormwater system, ultimately under Runway 14/32 daylighting in Wetland P, south of Downey Street. The ditch in question was likely created before 1971. The channel appears to have been lined with asphalt at one point and is approximately three to four feet wide. The channel is actively managed through the Airport's VMP. Dominant emergent vegetation includes wool grass, soft rush, goldenrod and cut arrowwood and sweet-fern (*Comptonia peregrina*) stalks. Portions of the ditch include common reed and cattail (*Typha latifolia*). There was no discernible flow within the channel at the time of the site visit, intermittent sections of the ditch contained small areas of standing water.

### **2.3 Natural Heritage and Endangered Species Program Atlas – Estimated and Priority Habitat**

The Massachusetts Natural Heritage and Endangered Species Program ("NHESP") Atlas (MassGIS, 2008) identifies estimated and priority habitat (310 CMR 10.59) for Eastern Box Turtle (*Terrapene carolina carolina*) and Coastal Swamp Amphipod (*Synurella chamberlaini*) within and adjacent to the Project area. See Attachment B, Figure 4. There are no NHESP-mapped Certified Vernal Pools or Potential Vernal Pools within the proposed project area. See Attachment B, Figure 4 for additional detail. The Applicant has continued to work closely with NHESP regarding ongoing eastern box turtle habitat on the Airport. The NOI has been forwarded to the NHESP for streamlined review under the Wetlands Protection Act and MESA regulations.

## **3.0 Project Description**

The proposed Project involves construction a new approximately 20 foot wide gravel access road between the Airport and New Plainville Road for dedicated Airport use, and construction

of obstruction lighting at Runway 23 and 32 ends. The various projects are located at the approach ends for Runway 14, 23, and 32, on the northwest, northeast, and southeast quadrants of the Airport.

The Applicant is proposing to permanently impact approximately 1,175 square feet of BVW, comprised of 1,170 square feet of loss for gravel access road and approximately five square feet of loss for one of the obstruction light supports at the Runway 23 approach end. To mitigate for these unavoidable impacts the Airport proposes to construct an approximately 1,400 square foot wetland replication area (approximately a 1.2:1 ratio). To construct the obstruction lighting, up to 1,400 square feet of temporary impact to BVW will occur. This temporary impact is a result of the installation of underground electrical conduit and the installation of temporary swamp mats which will provide access for the construction of the obstruction lighting and electrical conduit. Activities proposed in the 100-foot buffer zone to the BVW include the northern section of the proposed gravel access road (approximately 445 linear feet); portions of obstruction lighting and conduit work at Runway 23 end (approximately 290 linear feet) and obstruction lighting and conduit work at Runway 32 end (approximately 825 linear feet). Activities include gravel roadway construction, excavation and backfill of underground conduit and minor re-grading.

Additional information is provided in the following sections. Project plans are provided in Attachment F.

### ***3.1 Construct New Gravel Access Road***

The Airport is proposing to construct a new gravel access road between the Airport and New Plainville Road for dedicated Airport use and emergency access. Previous construction projects have been met with strong neighbor opposition regarding construction vehicle access through neighborhoods north and east of the Airport; as a result the Airport proposes this access road to avoid the need to direct construction vehicle traffic through neighborhoods to the greatest extent practicable. The proposed gravel access road would be used only for airport-related activities, including emergency vehicle access, airport security, and airport construction activities. The access road would be gated and closed for public use. This road will allow construction equipment to directly access the Airport via a dedicated and secure road through an unpopulated area to access areas north at the Airport without disrupting airport operations.

The proposed access road is located along a straight stretch of New Plainville Road with adequate site distances. The Airport is proposing to use both City of New Bedford property and a parcel from an abutter, who has agreed to transfer the property to the Airport in exchange for equivalent value Airport land. It should be noted that local area neighbors have endorsed this proposed project.

In general, the proposed 20 foot wide gravel road would be constructed with 12 inches of dense crushed aggregate base course, crowned and graded to drain. At the request of the City of New Bedford Department of Public Infrastructure, the first fifteen feet off of New Plainville

Road will be constructed using 4-inch bituminous apron in order to protect the New Plainville Road roadway edge. Tree clearing and grubbing will occur to the limits of the side slopes to accommodate the proposed roadway. Appropriate side slopes will be constructed with approximately four inches of backfilled topsoil and seeded with an appropriate erosion control conservation seed mix. For security, an approximately eight foot high chain link fence will be installed on either side of the access road, approximately five feet off the edge of roadway. The fence will connect to the existing Airport perimeter fence. Two 22-foot wide swing gates would be installed to allow access onto the Airport; one will be installed at New Plainville Road and the other will be installed at the Airport's existing fence line.

A portion of the proposed access road will fill approximately 1,170 square feet of BVW. The proposed gravel access road is constrained by property ownership lot lines and wetland resource areas immediately adjacent to New Plainville Road. The BVW is located at the eastern terminus of a somewhat extensive wetland system, connected via culvert to wetlands north of New Plainville Road. The Airport evaluated the feasibility of constructing a new temporary access road to the east of the proposed access road to bypass the referenced BVW system but was not able to negotiate a land transfer or easement with the property owners.

To mitigate these unavoidable impacts the Airport proposes to construct an approximately 1,400 square foot wetland replication area (approximately 1.2:1 ratio). Refer to the accompanying site plans for additional detail.

A construction laydown area is proposed on Airport property, located immediately north of Runway 14 end. Construction laydown and staging will be located outside of the 100-foot buffer to wetland resource areas. The 100-foot buffer was identified on the accompanying plans and will be staked in the field prior to construction, where located within 50 feet of work areas. Temporary erosion and sediment controls would be installed along the length of the proposed construction access road and staging and laydown area prior to starting work.

As stated previously, the proposed gravel access road is constrained by property ownership lot lines and wetland resource areas. There is no practicable alternative for the Airport to gain access to the northern portion of the Airport safely without crossing wetland and thus altering some portion of the BVW. Current site access to the northern portion of the Airfield is located at the terminus of Shawmut Avenue, a street that is partially lined with residential homes. Neighbors within that community have been extremely vocal regarding their continued displeasure that construction vehicles operate on their road. The gate access off of New Plainville Road at the Runway 23 end is not practicable for construction projects. The gate access is located along a sharp turn in New Plainville Road where speed limits are often exceeded, there is limited site distance, and the turnout pavement in front of the gate is small and could not accommodate large construction equipment. These factors make construction access at this gate access dangerous. In addition, access from this location would require either constructing a lengthy access road or travel across airfield pavement which would be

detrimental to airport operations. Therefore the City of New Bedford has proposed this access road as an alternative. The Applicant focused its efforts on minimizing and mitigating BVW impacts.

The impact minimization and mitigation measures include:

- ◆ The roadway has been relocated to the easternmost portion of the available parcels. Several turns have been proposed to work with existing grades and avoid wetland resources.
- ◆ Approximately 1,400 square feet of BVW replication area will be provided as mitigation for the approximately 1,170 square feet of unavoidable impacts to BVW (an approximately 1.2:1 ratio).

Temporary erosion and sediment controls would be installed along the length of the proposed construction access road and staging and laydown areas as necessary prior to starting work.

### **3.2            *Obstruction Lighting***

To provide an acceptable level of safety for airport operations the airspace surface encroachments referenced above need to be identified by the installation of obstruction lights at both Runway 23 and 32 approach ends. Failing to install obstruction lighting may result in relocating the Runway 23 and 32 end approaches, therefore decreasing the length of usable runway. Obstruction lighting along the roadway would prevent the relocation of the approach ends and loss of runway lengths. The proposed obstruction lights are to be approximately 15 feet tall and placed on a five square foot base.

Obstruction lighting at the Runway 23 end approach will result in five (5) square feet of unavoidable impacts for the light support base. Unavoidable temporary impacts will be necessary for site access and to install underground electrical conduit. To protect the underlying BVW the Airport proposes to temporarily install swamp mats, or equivalent protection. Approximately 600 square feet of temporary impacts will occur for electrical work required for the obstruction lighting. Roughly 800 square feet of BVW will be temporarily impacted by the installation of swamp mats. The use of swamp mats allows for equipment movement within wetlands without the need to substantially remove vegetation beneath access ways. Swamp mats can also minimize the amount of rutting in wetland soils by distributing loads over a broad surface area. Upon completion of the Project, the BVW will be substantially restored to its pre-existing condition through the removal of the swamp mats, soil decompaction, and re-vegetation of the site. The wetland will be allowed to re-vegetate naturally. If necessary, a wetland seed mix will be used to stabilize the areas upon removal of the mats. Refer to the accompanying site plans for additional detail.

#### 4.0 Summary of Wetland Resource Area Impacts and Compliance with Performance Standards for Proposed Access Road and Lighting Work

The proposed access road and obstruction lighting activities have been designed to avoid alterations to wetland resource areas to the maximum extent practicable and to minimize unavoidable impacts in accordance with the applicable Wetlands Protection Act regulations. Compliance with the applicable performance standards for the affected resource areas is discussed below.

##### **4.1 *Bordering Vegetated Wetlands***

Activities proposed within BVW will contribute to the protection of the interests identified in the Act by complying with the following general performance standards established at 310 CMR 10.55(4):

**310 CMR 10.55(4)(a) Where the presumption set forth in 310 CMR 10.55(3) is not overcome, any proposed work in Bordering Vegetated Wetlands shall not destroy otherwise impair any portion of said area.**

See Subsection (b) below.

**310 CMR 10.55(4)(b) - Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of up to 5,000 square feet of Bordering Vegetated Wetland when said area is replaced in accordance with the following general conditions and any additional, specific conditions the issuing authority deems necessary to ensure that the replacement area will function in a manner similar to the area that will be lost:**

- 1. The surface of the replacement area to be created ("the replacement area") shall be equal to that of the area that will be lost ("the lost area");**

Approximately 1,400 square feet of BVW replication area will be provided as mitigation for the approximately 1,175 square feet of unavoidable impacts to BVW (an approximately 1.2:1 ratio). A detailed wetland replication plan and report is provided in Attachment G.

- 2. The ground water and surface elevation of the replacement area shall be approximately equal to that of the lost area;**

The BVW replication area has been designed to function in a manner similar to the area that will be lost with regard to groundwater and surface elevations. Similar to conditions observed at the BVW impact site, the topography of the proposed replication site is relatively flat with elevations ranging from 66 to 67-feet above mean sea level (MSL). See Attachment G for additional detail.

**3. The overall horizontal configuration and location of the replacement area with respect to the bank shall be similar to that of the lost area;**

The horizontal configuration of the wetland mitigation area has been designed to approximate that of the BVW impact area.

**4. The replacement area shall have an unrestricted hydraulic connection to the same water body or waterway associated with the lost area;**

The proposed wetland replication area has an unrestricted hydraulic connection to the same, contiguous BVW system that contains the BVW impact area. The primary hydrologic input to the wetland replication area will be derived from the same existing groundwater and precipitation sources that presently contribute to the BVW impact area. See Attachment G for additional detail and test pit data.

**5. The replacement area shall be located within the same general area of the water body or reach of the waterway as the lost area;**

The proposed wetland replication area is located within the same general area of the water body or reach of the waterway as the lost area.

**6. At least 75% of the surface of the replacement area shall be reestablished with indigenous wetland plant species within two growing seasons, and prior to said vegetative reestablishment any exposed soil in the replacement area shall be temporarily stabilized to prevent erosion in accordance with standard U.S. Soil Conservation Service methods; and the replacement area shall be provided in a manner which is consistent with all other General Performance Standards for each resource area in Part III of 310 CMR 10.00.**

The wetland mitigation plan proposes that scrub/shrub wetland habitat will be created within the proposed replication area within two growing seasons, providing a minimum of 75 percent surface coverage with native herbaceous wetland plant species. Any exposed substrates will be protected against erosion until re-establishment of wetland vegetation occurs. Any exposed soils will be temporarily stabilized using hay mulch or other appropriate erosion control measures in the event that seasonal conditions result in a delay in seeding. Following final grading, a straw wattle barrier will be installed around the perimeter of the new wetland replication area. In addition, the replication area will be monitored on an on-going basis for a period of two complete growing seasons by a qualified Wetland Scientist. Written reports will be submitted to the New Bedford Conservation Commission each year. See Attachment G for additional monitoring requirements.

Additionally, approximately, 1,400 square feet of BVW located at the Runway 23 end will be temporarily altered with the placement of swamp mats or equivalent low ground pressure protection. The swamp mats will be joined together to form stable platforms installed over the surface of the BVW. The use of swamp mats allows for equipment movement within wetlands

without the need to substantially remove vegetation beneath access ways. Swamp mats can also minimize the amount of rutting in wetland soils by distributing loads over a broad surface area. Upon completion of the Project, the BVW will be substantially restored to its pre-existing condition through the removal of the swamp mats and re-vegetation of the site. The wetland will be allowed to re-vegetate naturally. If necessary, a wetland seed mix will be used to stabilize the areas upon removal of the mats.

**7. The replacement area shall be provided in a manner which is consistent with all other General Performance Standards for each resource area in Part III of 310 CMR 10.00...;**

As there are no other resource areas other than BVW present where impacts will occur at the project site, this standard is not applicable.

**(c) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of portion of Bordering Vegetated Wetlands when;**

- 1. said portion has a surface area less than 500 square feet;**
- 2. said portion extends in a distinct linear configuration (“finger-like”) into adjacent uplands;**
- 3. in the judgment of the issuing authority it is not reasonable to scale down, redesign or otherwise change the proposed work so that it could be completed without loss of said wetland;**

This standard is not applicable.

**310 CMR 10.55(4)(d) - Notwithstanding the provisions of 310 CMR 10.55(4)(a),(b) and (c), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.**

A copy of the NOI has been forwarded to the NHESP for review and comment relative to other aspects of the project located in Estimated and Priority Habitat.

**310 CMR 10.55(4)(e) Any proposed work shall not destroy or otherwise impair any portion of a Bordering Vegetated Wetland that is within an Area of Critical Environmental Concern designated by the Secretary of Environmental Affairs under M.G.L. c. 21A, § 2(7) and 301 CMR 12.00.**

This standard is not applicable. The Project site is not located within an ACEC.

## 5.0 Mitigation Measures/ Best Management Practices

### 5.1 *Wetland Replication Area*

Approximately 1,400 square feet scrub/shrub habitat will be created to mitigate BVW impacts associated with the gravel roadway fill and lighting work. Refer to the detailed wetland replication plan and report in Attachment G for additional information.

### 5.2 *Erosion Control Measures*

An erosion and sedimentation control program will minimize the risk of impacts to wetland resource areas during construction of the Project. The proposed program will incorporate best management practices (“BMP”) specified in guidelines developed by the MassDEP and the United States Environmental Protection Agency (“EPA”) and will comply with the requirements of the National Pollutant Discharge Elimination System (“NPDES”) 2012 General Permit for Storm Water Discharges from Construction Activities. These measures will include the installation of temporary erosion and sediment controls and construction sequencing. Areas of exposed soil will be kept to a minimum, and a permanent vegetative cover will be established as soon as practicable after final grading. More specifically, the following erosion and sedimentation control devices will be implemented to prevent erosion both during and after construction.

- ◆ An erosion control barrier, consisting of compost tubes, will be installed along the entire limit of work as shown on the Project plans prior to the initiation of proposed work. These siltation barriers will demarcate the limit of work, form a work envelope and provide additional assurance that construction equipment will stay within the proposed limit of work. All barriers will remain in place until disturbed areas are stabilized. An adequate stockpile of erosion control materials will be onsite at all times for emergency or routine replacement.
- ◆ Gravel construction entrance aprons will be located at the construction entrance along Old Plainville Road to prevent the tracking of sediment on vehicle tires from transport onto adjacent streets. The roadway will be inspected frequently and cleaned of sediment as necessary by the site contractor.
- ◆ During construction, cut and fill slopes will be stabilized immediately upon completion with loam, hydro-seeding, and erosion control blankets as deemed necessary by the design Engineer.
- ◆ If necessary, temporary haybales will be placed around existing catch basins and filter fabric will be used to cover catch basin grates, or catch basin inlets will be installed. Catch basin inlet protection will be maintained throughout the duration of construction to prevent silt from entering the drainage system.

### **5.3**            *Soil and Construction Material Stockpile Locations*

There will be no storage of soil, gravel, or construction debris within wetland resource areas. Solid waste generation during the construction period will primarily consist of construction debris. These materials will typically be placed in large roll-off containers (or dumpsters) and removed by a contract hauler. The roll-off containers will be covered with secured tarps before the hauler exits the site. Contractor staging and laydown areas will be located outside of the 100-foot buffer zone.

## **6.0**    **Conclusions**

The Project has been designed to comply with BVW performance standards of the Wetlands Protection Act regulations (310 CMR 10.55(4)). Wetland resource area impacts have been avoided wherever feasible and in those locations where alteration is otherwise unavoidable, impacts have been minimized, and mitigated to the best extent practicable and in accordance the applicable regulations.

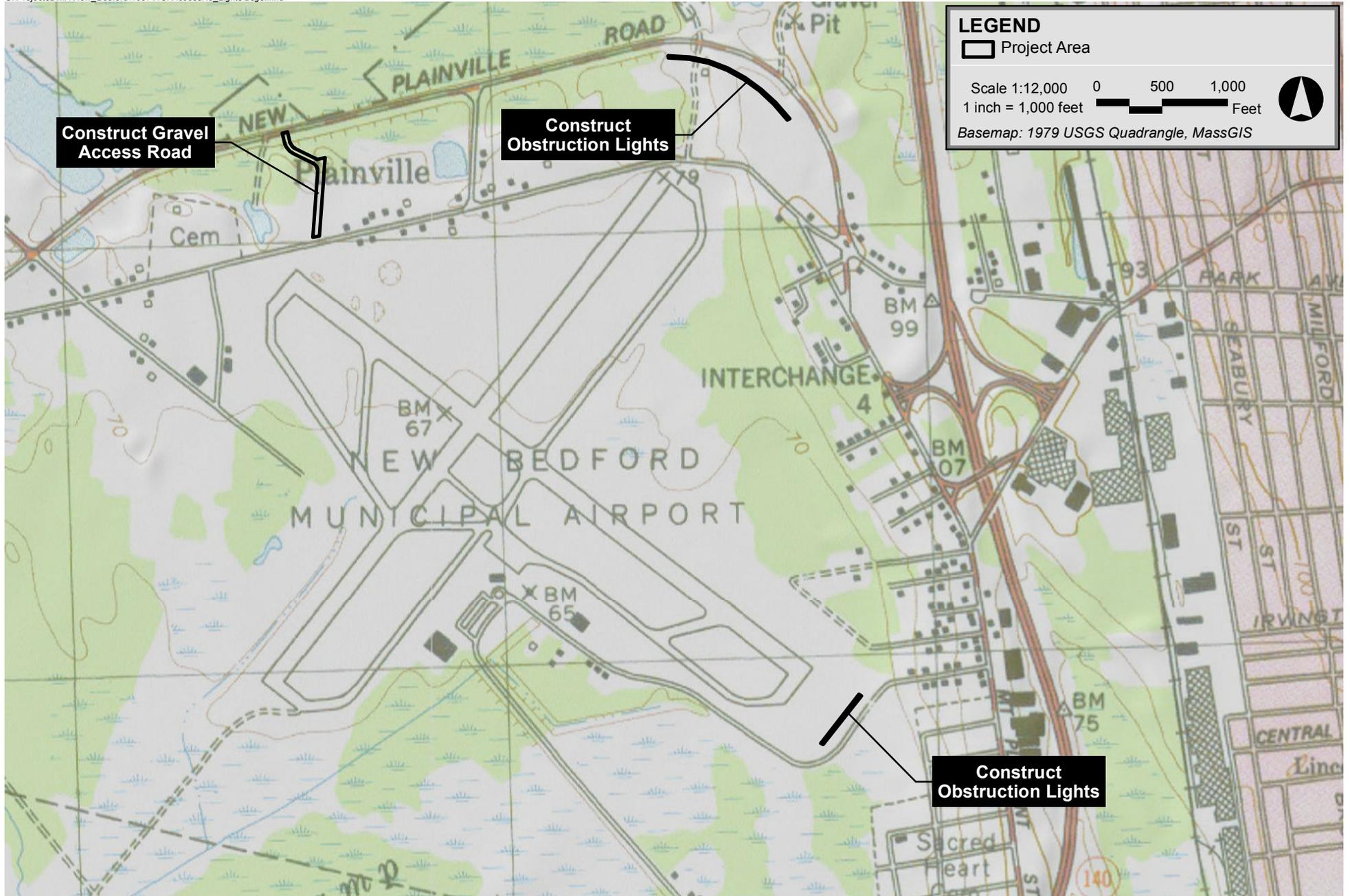
The information contained in this NOI and the accompanying site plans sufficiently describes the site, proposed work and the effect of said work on the interests identified in the Act and Ordinance. The applicant therefore respectfully requests that the New Bedford Conservation Commission issue an Order of Conditions approving the Project with appropriate conditions to protect those interests identified in M.G.L. c. 131 §40.

**Attachment B**

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Figures



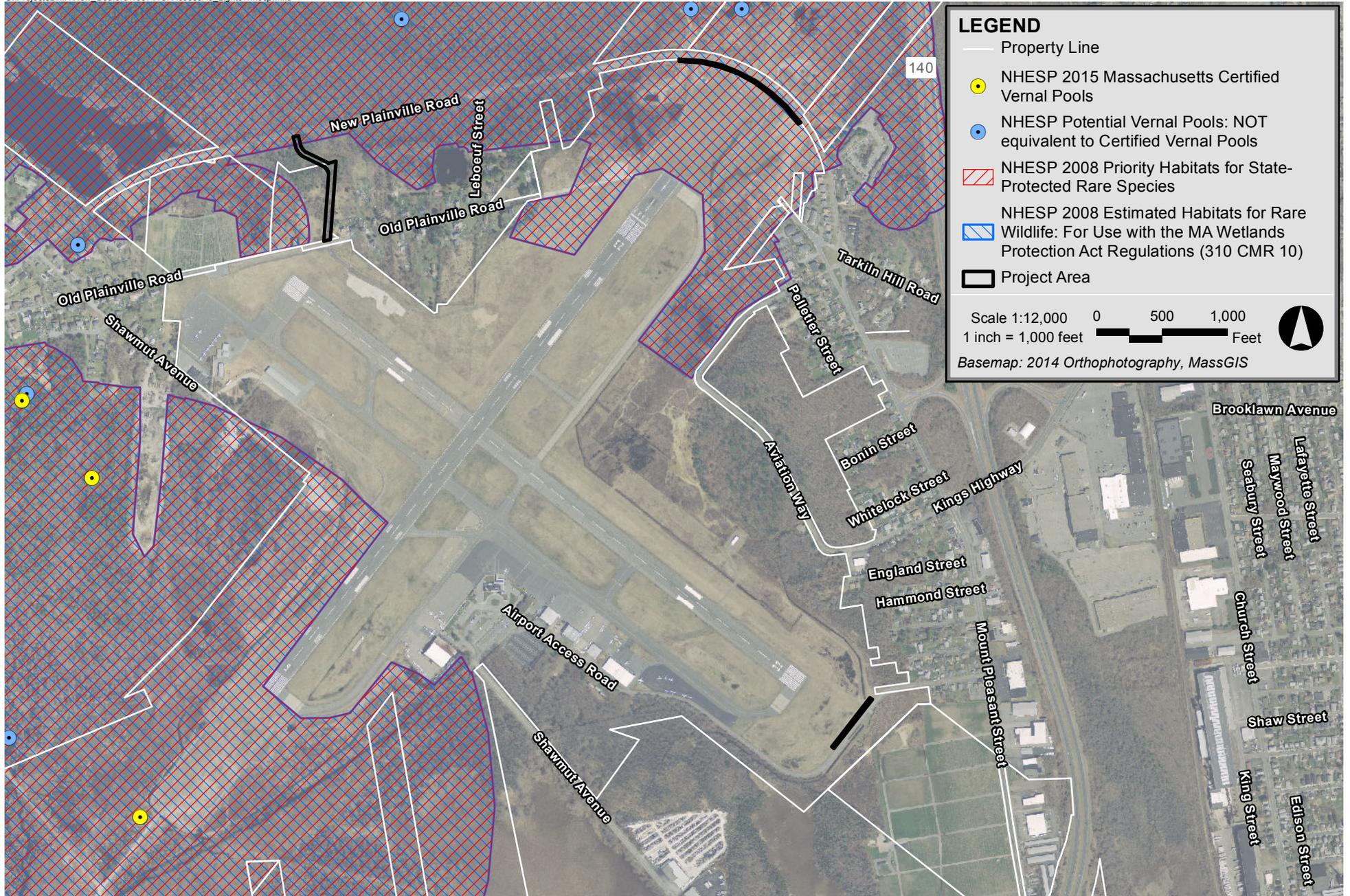
New Bedford Regional Airport, Construct Gravel Access Road and Obstruction Lights



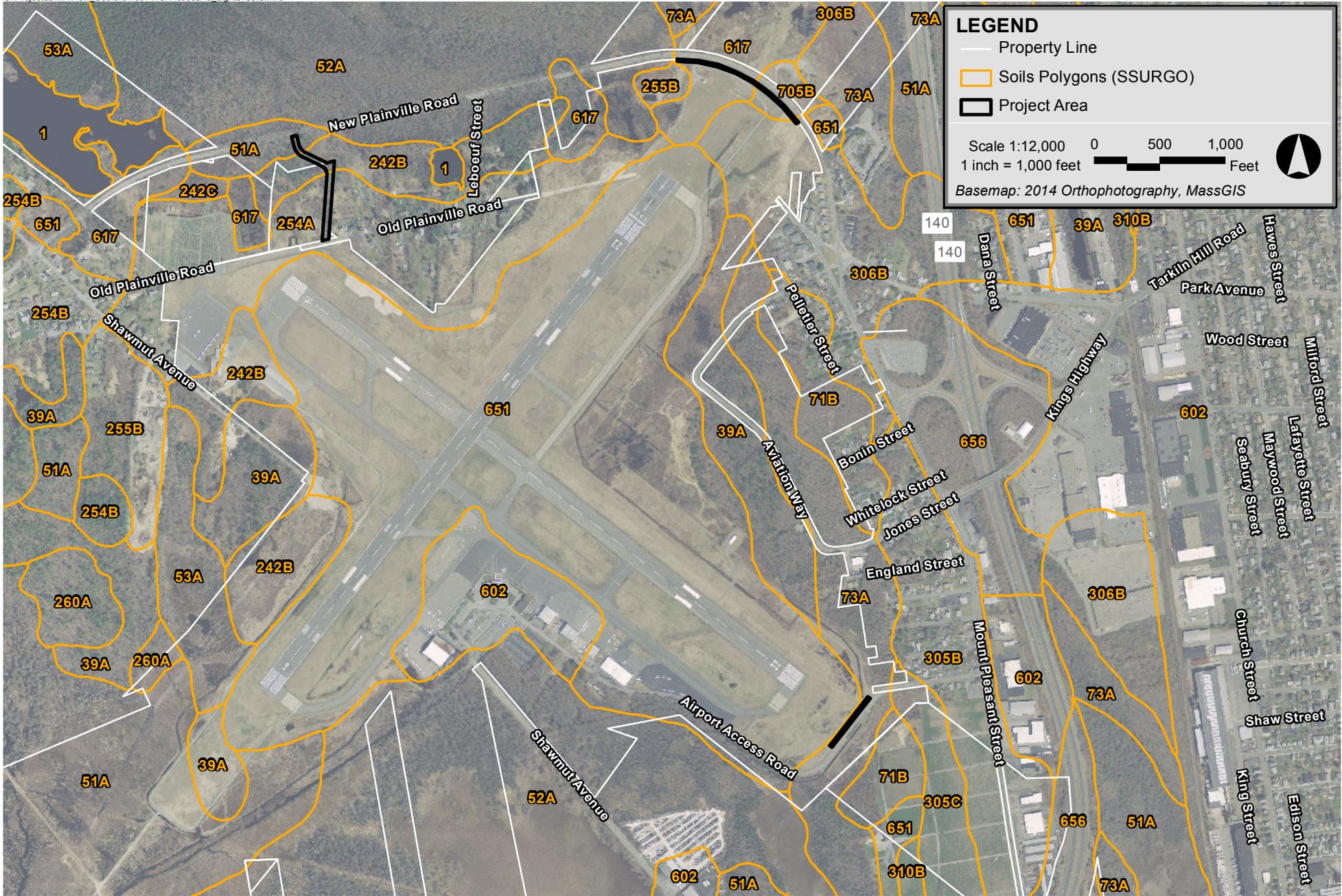
New Bedford Regional Airport, Construct Gravel Access Road and Obstruction Lights



New Bedford Regional Airport, Construct Gravel Access Road and Obstruction Lights



New Bedford Regional Airport, Construct Gravel Access Road and Obstruction Lights



New Bedford Regional Airport, Construct Gravel Access Road and Obstruction Lights

MUSYM_LAYE	SLOPE	MAPUNIT_NA
1	0	Water
602	0	Urban land
617	0	Pits - Udorthents complex, gravelly
651	0	Udorthents, smoothed
656	0	Udorthents - Urban land complex
242B	B	Hinckley gravelly fine sandy loam, 3 to 8 percent slopes
242C	C	Hinckley gravelly fine sandy loam, 8 to 15 percent slopes
254A	A	Merrimac fine sandy loam, 0 to 3 percent slopes
254B	B	Merrimac fine sandy loam, 3 to 8 percent slopes
255B	B	Windsor loamy sand, 3 to 8 percent slopes
260A	A	Sudbury fine sandy loam, 0 to 3 percent slopes
305B	B	Paxton fine sandy loam, 3 to 8 percent slopes
305C	C	Paxton fine sandy loam, 8 to 15 percent slopes
306B	B	Paxton fine sandy loam, 0 to 8 percent slopes, very stony
307B	B	Paxton fine sandy loam, 0 to 8 percent slopes, extremely stony
310A	A	Woodbridge fine sandy loam, 0 to 3 percent slopes
310B	B	Woodbridge fine sandy loam, 3 to 8 percent slopes
312B	B	Woodbridge fine sandy loam, 0 to 8 percent slopes, extremely stony
39A	A	Scarboro muck, 0 to 1 percent slopes
51A	A	Swansea muck, 0 to 1 percent slopes
52A	A	Freetown muck, 0 to 1 percent slopes
53A	A	Freetown muck, 0 to 1 percent slopes, ponded
705B	B	Charlton - Paxton fine sandy loams, 3 to 8 percent slopes, rocky
71A	A	Ridgebury fine sandy loam, 0 to 3 percent slopes, extremely stony
71B	B	Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony
73A	A	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony

Attachment C

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Site Photographs



Representative view of wetland series 6.



Representative view of wetland series 6.



View of uplands adjacent to wetland series 6 where gravel road is proposed.

**Attachment D**

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Abutter Notification

**Affidavit of Service**  
**Under The Massachusetts Wetlands Protection Act**

I, Amanda B. Atwell, hereby certify under pains and penalties of perjury that on December 17, 2015 Epsilon Associates, Inc. gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, 310 CMR 10.00 and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act and the City of New Bedford Wetlands Ordinance with the City of New Bedford Conservation Commission by the City of New Bedford Airport Commission on January 7, 2016 for property located at:

1569 Airport Road in New Bedford Regional, MA  
And the following Map and Lot:  
123-3, 124-28, 124-82, 125-22, 128-32, 124-14, 124-113

The form of notification, and a list of the abutters to whom it was given and their addresses are attached to this Affidavit of Service.

  
Amanda B. Atwell

Date: December 23, 2015

## **Notification to Abutters under the City of New Bedford Wetlands Ordinance**

In Accordance with the City of New Bedford Wetlands Ordinance (New Bedford Code of Ordinances Sections 15-101 through 15-112) you are hereby notified of the following.

The name of the applicant is: City of New Bedford Regional Airport Commission

The applicant has filed a Notice of Intent (“NOI”) for the municipality of New Bedford, Massachusetts seeking permission to remove, fill, dredge or alter an area subject to protection under the City of New Bedford Wetlands Ordinance (New Bedford Code of Ordinances Sections 15-101 through 15-112). The applicant is proposing to construct a new approximately 20 foot wide gravel access road between the Airport and New Plainville Road for dedicated Airport use and emergency access including airport-related activities, including emergency vehicle access, airport security, and future airport construction activities. The access road would be gated and closed for public use. The Airport also needs to install obstruction lighting to address Federal Aviation Administration (“FAA”) regulations relative to protected airspace obstructions. Obstruction lights are necessary at the Runway 23 approach end (near New Plainville Road) and at the Runway 32 end (near Downey Street) for airspace surface encroachments associated with FAA regulations. Currently both roads, New Plainville Road and Downey Street, create obstruction hazards to each runway approach surface. Obstruction lighting along the roadways will prevent relocation of the approach ends and loss of runway lengths. Certain activities are proposed within Bordering Vegetated Wetlands and the associated 100-foot Buffer Zone and are subject to review by the City of New Bedford Conservation Commission under the Massachusetts Wetlands Protection Act and the City of New Bedford Wetlands Ordinance.

The address of the lot where the activity is proposed is New Bedford Regional Airport, 1569 Airport Road, New Bedford, MA Assessor's Map, Lot: 123-3, 124-28, 125-22, 124-82, 128-32 the Ahavath Achim Congregation, Old Plainville Road, New Bedford, MA Assessor's Map, Lot: 124-113 and the Callaghan Sheila M c/o City of New Bedford, Old Plainville Road, New Bedford, MA Assessor's Map, Lot: 124-14

Copies of the NOI may be examined at the New Bedford Conservation Commission, City Hall, 133 William St. Room 304 New Bedford, MA 02740 between the hours of 8:00 AM and 4:00 PM, Monday through Friday. For more information call (508) 991-6188.

Copies of the NOI may be obtained from the applicant's representative Epsilon Associates, Inc., 3 Clock Tower Place, Suite 250, Maynard, MA, 01754 by calling this telephone number (978) 897-7100 between the hours of 8:00 AM and 4:00 PM Monday through Friday.

Information regarding the date, time and place of the public hearing may be obtained from New Bedford Conservation Commission by calling 508-991-6188 between the hours of 8:00 AM and 4:00 PM Monday through Friday.

Note: Notice of the Public hearing, including its date, time and place, will be posted in the City Hall not less than forty eight (48) hours in advance of the meeting.

Note: Notice of the Public Hearing including its date, time and place, will be published at least five (5) days in advance in the Standard Times.

Note: You may also contact the New Bedford Conservation Commission at 508-991-6188 for more information about this publication or the City of New Bedford Wetlands Ordinance

I, Carol R. Fyfe, Administrative Assistant to the Board of Assessors of the City of New Bedford, do hereby certify that the names and addresses as identified on the attached "abutters list" are duly recorded and appear on the most recent tax.

Date: 12/2/2015

SUBJECT PROPERTY:

MAP 124-28, 124-82 LOT 128-32, 123-3

LOCATION SS Old Plainville Rd

OWNER'S NAME City of New Bedford Airport Cmmission

MAILING ADDRESS \_\_\_\_\_

CONTACT PERSON Megan Kearns

TELEPHONE NUMBER 949-945-4010

EMAIL ADDRESS mkearns@epsilonassociates.com

REASON FOR REQUEST

Notice of Intent

PLANNING  
NOV 24 2015  
DEPARTMENT



November 24, 2015

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as SS Old Plainville Road (124-28,124-82,128-32,123-3). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

Please note that multiple listed properties with identical owner name and mailing address shall be considered duplicates, and shall require only 1 mailing. Additionally, City of New Bedford-Owned properties shall not require mailed notice.

Parcel	Location	Owner and Mailing Address
123C-202 <i>NS</i>	MURPHY ST	CITY OF NEW BEDFORD, MURPHY FRANCES ANNA 131 WILLIAM ST. NEW BEDFORD, MA 02740
128-1 <i>NS</i>	NEW PLAINVILLE RD	COMMONWEALTH OF MASS DEPT, DEPT OF ENVIRONMENTAL MGT OFFICE OF THE COMMISSIONER <i>100 Cambridge St.</i> BOSTON, MA 02202
122-46 <i>WS</i>	SHAWMUT AVE	CUNNINGHAM GLENN G, CUNNINGHAM DORIS I 13 QUANAPOAG ROAD E FREETOWN, MA 02717
123A-267 <i>SS</i>	HAMMOND ST	GAJEWSKI DOLORES A, 54 HAMMOND ST NEW BEDFORD, MA 02745
122-27 <i>WS</i>	SHAWMUT AVE	A & L ENTERPRISES LLC, P O BOX 50540 NEW BEDFORD, MA 02745
123C-18 <i>NS</i>	SHAWMUT AVE	MIRANDA EMMA T., FERNANDES ABEL 374 RAYMOND STREET NEW BEDFORD, MA 02745- <i>2617</i>
122-20 <i>WSR</i>	SHAWMUT AVE	CITY OF NEW BEDFORD, PROVENCAL ADELARD 131 WILLIAM ST NEW BEDFORD, MA 02740
123C-37 <i>NS</i>	MCNABOE ST	CITY OF NEW BEDFORD, WATKINS CHARLES S. 131 WILLIAM ST. NEW BEDFORD, MA 02740
123C-69 <i>SS</i>	CONNELLY ST	CITY OF NEW BEDFORD, 131 WILLIAM ST. NEW BEDFORD, MA 02740
123C-117 <i>NS</i>	CONNELLY ST	CITY OF NEW BEDFORD, WATKINS CHARLES S. 131 WILLIAM ST. NEW BEDFORD, MA 02740
123C-225 <i>WS</i>	BERKLEY ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123C-131 <i>NS</i>	CONNELLY ST	CITY OF NEW BEDFORD, WATKINS CHARLES S. 131 WILLIAM ST. NEW BEDFORD, MA 02740
123-15	559 MT - <i>607</i> PLEASANT ST	ROMAN CATHOLIC BISHOP OF, FALL RIVER SACRED HEART NEW BEDFORD, MA 02740

November 24, 2015

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123C-199 <i>NS</i>	MURPHY ST	CITY OF NEW BEDFORD, WATKINS CHARLES S. 131 WILLIAM ST. NEW BEDFORD, MA 02740
124-82 <i>NS</i>	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123A-270 <i>SS</i>	HAMMOND ST	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
122-2	NO OF F R R R	COUNTY OF BRISTOL, CONSERVATION NEW BEDFORD, MA 02740
123A-26 <i>SS</i>	DOWNEY ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124-105 <i>SS</i>	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
122-25 <i>WS</i>	SHAWMUT AVE	CUNNINGHAM GLENN G, CUNNINGHAM DORIS I 13 QUANAPOAG ROAD E FREETOWN, MA 02717
123A-119 <i>NS</i>	HASKELL ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123A-122 <i>NS</i>	HASKELL ST	POLK ANN M "TRUSTEE", THE ANN M POLK REVOCABLE TRUST 2007 245 HASKELL ST NEW BEDFORD, MA 02745-4814
123A-125 <i>NS</i>	HASKELL ST	POLK ANN M "TRUSTEE", THE ANN M POLK REVOCABLE TRUST 2007 245 HASKELL ST NEW BEDFORD, MA 02745
122-26 <i>WS</i>	SHAWMUT AVE	A & L ENTERPRISES LLC, P O BOX 50540 NEW BEDFORD, MA 02745
123-14	735 MT PLEASANT ST	ROMAN CATHOLIC BISHOP OF, FALL RIVER SACRED HEART NEW BEDFORD, MA 02740
123A-16	234 DOWNEY ST	BOUTIN JANE, BARCELLOS JOHN 234 DOWNEY ST NEW BEDFORD, MA 02745

November 24, 2015

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<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
123A-453 WS	MT PLEASANT ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST. NEW BEDFORD, MA 02740
122-39 ES	SHAWMUT AVE	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123A-192 SS	COX ST	CITY OF NEW BEDFORD, HERBERT EDWARD 131 WILLIAM ST. NEW BEDFORD, MA 02740
123A-186	66 COX ST	HAALAND JULIE L, 66 COX STREET NEW BEDRORD, MA 02745
123A-41 SS	HASKELL ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123-8	284 ENGLAND ST	TAYLOR VICTORIA L, VIOLET TIMOTHY J 284 ENGLAND STREET NEW BEDFORD, MA 02745
123A-275 NS	HAMMOND ST	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
122-3 WS	SHAWMUT AVE	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124-32	1450 OLD PLAINVILLE RD	KUMMER JACQUELINE E, 1914 SHAWMUT AVENUE DARTMOUTH, MA 02747
124C-26	2020 SHAWMUT AVE	PELLETIER LEO H, PELLETIER DENISE L P O BOX 50057 NEW BEDFORD, MA 02745
128-24	2044 SHAWMUT AVE -2046	CIANO CHRISTOPHER P, P O BOX 51136 NEW BEDFORD, MA 02745
123-139 SS	JONES ST	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
123B-582 WS	AVIATION WAY	DECOSTA LLOYD, DECOSTA HELEN 3932 ELROVIA AVE EL MONTE, CA 91731

November 24, 2015

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Parcel	Location	Owner and Mailing Address
123-3	<del>1513 AIRPORT RD 1493-1569</del> municipal Airport	<del>SANDPIPER AIR, INC.,</del> City of New Bedford Airport Commission 1529 AIRPORT ROAD 131 William St. NEW BEDFORD, MA 02746 02740
125-119 <i>ES</i>	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-583 <i>NS</i>	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124-146 <i>S</i>	SHAWMUT AVE	DUPHILY RAYMOND G "TRS", A & R REALTY TRUST 34 FLAGSWAMP ROAD NO. DARTMOUTH, MA 02747
124-33	1930 SHAWMUT AVE	SIROIS GREGORY, 1930 SHAWMUT AVE DARTMOUTH, MA 02747
124-77 <i>WS</i>	SHAWMUT AVE	<del>NB TRUST, C/O NANCY BIANCHI MILLER</del> City of New Bedford Airport Commission 79 NORTH RIVER ROAD LEE, NH 03861 New Bedford, MA 02740 133 William St.
124-116 <i>ES</i>	1852 SHAWMUT AVE	<del>BRIDGE WATER STATE COLLEGE, (DCAM),</del> City of New Bedford Redevelopment 131 <del>SUMMER STREET</del> William St. <del>BRIDGEWATER, MA 02325</del> New Bedford, MA 02740
124-27	1861 SHAWMUT AVE	DECOSTA ANTHONY R, 1861 SHAWMUT AVE <del>NO DARTMOUTH, MA 02747</del> New Bedford, MA 02747
124-26 <i>WS</i>	SHAWMUT AVE	COUNTY OF BRISTOL, CONSERVATION NEW BEDFORD, MA 02740
124-118 <i>S</i>	OLD PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124C-39	684 NEW PLAINVILLE RD	TEXEIRA JOYCE, DUPONT REGINALD JR 684 NEW PLAINVILLE ROAD NEW BEDFORD, MA 02745
124A-207	93 FALMOUTH ST	MADEIRA CARLOS M "TRUSTEE", MADEIRA ANA "TRUSTEE" 93 FALMOUTH STREET NO DARTMOUTH, MA 02747
124-173 <i>SS</i>	OLD PLAINVILLE RD	FERNANDES STEPHEN, 1146 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745

November 24, 2015

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Parcel	Location	Owner and Mailing Address
124A-209	101 FALMOUTH ST	SILVA MARCO P, SILVA MELINDA D 101 FALMOUTH STREET NEW BEDFORD, MA 02745
124A-1	1466 OLD PLAINVILLE RD	GUNNISON JENNIFER C SOUZA-, DeMEDEIROS MARIA DOCEU 1188 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
124-117 <i>WS</i>	CARAVAN WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124-143	1800 SHAWMUT AVE	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124-108	1434 OLD PLAINVILLE RD	LEPAGE NANCY, BARROWS DOUGLAS K 1434 OLD PLAINVILLE RD DARTMOUTH, MA 02747
124-43	1234 OLD PLAINVILLE RD	KAGAN MARK E, 1234 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124C-32	1451 OLD PLAINVILLE RD	BEAULAC RANDALL S SCHRODER, BEAULAC BRENDA L 1451 PLAINVILLE ROAD <del>NO. DARTMOUTH, MA 02747</del> <i>New Bedford, MA 02745</i>
124-71	1210 OLD PLAINVILLE RD	DEREE DONNA, 1210 PLAINVILLE RD NEW BEDFORD, MA 02745
124C-44	1443 OLD PLAINVILLE RD	KUMMER THOMAS E, KUMMER PATRICIA 1443 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124C-33	1437 OLD PLAINVILLE RD	SYLVIA JOHANNA A, 1437 OLD PLAINVILLE ROAD <del>NO. DARTMOUTH, MA 02747</del> <i>New Bedford, MA 02747</i>
124C-34	1431 OLD PLAINVILLE RD	ZIENCINA MITCHELL T, ZIENCINA ARLENE 1431 OLD PLAINVILLE RD <del>NO. DARTMOUTH, MA 02747</del> <i>New Bedford, MA 02745</i>
124-28 <i>SS</i>	OLD PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124-172 <i>SS</i>	OLD PLAINVILLE RD	FERNANDES STEPHEN, 1146 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745

November 24, 2015

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Parcel	Location	Owner and Mailing Address
124-58 <i>SS</i>	NEW PLAINVILLE RD	CONGREGATION TIFERETH, ISRAEL 145 BROWNELL AVE NEW BEDFORD, MA 02740
124C-25	2030 SHAWMUT AVE	WALEGA MARY, 2030 SHAWMUT AVE NO. DARTMOUTH, MA 02747
124-174 <i>SS</i>	OLD PLAINVILLE RD	FERNANDES STEPHEN, 1146 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-144	1196 OLD PLAINVILLE RD	DUPHILY GLADYS M, 1196 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-41	1194 OLD PLAINVILLE RD	SHERIDAN CAROL A DUPHILY-, SHERIDAN PATRICK J 1194 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
124-164	1255 OLD PLAINVILLE RD	GALLIGAN ELEANOR L, 1255 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-12 <i>NS</i>	OLD PLAINVILLE RD	CONGREGATION TIFERETH, ISRAEL 145 BROWNELL AVE NEW BEDFORD, MA 02740
124-163	1249 OLD PLAINVILLE RD	BOTELHO ALFRED M, BOTELHO MARIA A 1249 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-69 <i>NS</i>	OLD PLAINVILLE RD	CONGREGATION TIFERETH, ISRAEL 145 BROWNELL AVE NEW BEDFORD, MA 02740
124-42 <i>NS</i>	OLD PLAINVILLE RD	CONGREGATION TIFERETH, ISRAEL SYNAGOGUE 145 BROWNELL AVE NEW BEDFORD, MA 02740
124-59 <i>NS</i>	OLD PLAINVILLE RD	ABATH ACHIM CONGREGATION, INC 145 BROWNELL AVENUE NEW BEDFORD, MA 02740
125-14	1172 OLD PLAINVILLE RD	DAVID OCTAVIA J, 1172 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
124C-36 <i>SS</i>	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740

November 24, 2015

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Parcel	Location	Owner and Mailing Address
128-34	2036 SHAWMUT AVE	PHILABAUM PAUL J, SYLVIA ASHLEE M 2036 SHAWMUT AVE <del>NEW BEDFORD, MA 02746</del> <i>N. Dartmouth, MA 02747</i>
124C-27	2004 SHAWMUT AVE	PELLETIER LEO H, PELLETIER DENISE L P O BOX 50057 NEW BEDFORD, MA 02745
124-10 <i>NS</i>	OLD PLAINVILLE RD	TIFEREETH ISRAEL CONGREGATION, OF NEW BEDFORD INC 145 BROWNELL AVE NEW BEDFORD, MA 02740
124-113 <i>NS</i>	OLD PLAINVILLE RD	AHAVATH ACHIM, CONGREGATION INC NEW BEDFORD, MA 02740
124-61	1243 OLD PLAINVILLE RD	VIEIRA LUIS, 1243 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-51 <i>SS</i>	NEW PLAINVILLE RD	CONGREGATION TIFEREETH, ISRAEL 145 BROWNELL AVE NEW BEDFORD, MA 02740
125-22 <i>SS</i>	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
128-32 <i>NS</i>	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740

*Carla Apardo*

Administrative Assistant to the Board of Assessors of the City of New Bedford, do hereby certify that the names and addresses as identified on the attached "Abutters List" are duly recorded and appear on the most recent tax.

Date: 12/29/2015

PLANNING  
DEC 23 2015  
DEPARTMENT

SUBJECT PROPERTY: MAP 125-22 LOT

LOCATION ss New Plainville Road

OWNER'S NAME City of New Bedford Airport Commission

MAILING ADDRESS 131 William Street, New Bedford

CONTACT PERSON Amanda Atwell, Epsilon Associates

TELEPHONE NUMBER 978-461-6227 or 315-289-6899

REASON FOR REQUEST

Notice of Intent



December 23, 2015

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as SS New Plainville Road (125-22). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

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Parcel	Location	Owner and Mailing Address
125B-263	LEMAY ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-72 <i>NS</i>	NEW PLAINVILLE RD	LIVINGSTONE EDWIN, PIRES MARY LOU 32 PARKER STREET NEW BEDFORD, MA 02740
125-36	1123 OLD PLAINVILLE RD	COACHE MEAGHAN, 1123 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
123B-539 <i>SS</i>	RAYNO ST	CITY OF NEW BEDFORD, 131 WILLIAM ST NEW BEDFORD, MA 02740
123-3	<del>1513 AIRPORT RD - 1493 -</del> <i>1569 Municipal Airport</i>	<del>SANDPIPER AIR, INC., City of New Bedford Airport Commission</del> <del>1529 AIRPORT ROAD - 131 William St.</del> NEW BEDFORD, MA <del>02746</del> <i>02740</i>
123B-574 <i>R</i>	BONIN ST <i>Airport</i>	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-119 <i>ES</i>	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-583 <i>AB</i>	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-585 <i>WS</i>	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-330 <i>ES</i>	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-430 <i>ES</i>	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125B-166 <i>SS</i>	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125B-314 <i>END</i>	MARCOTTE ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740

December 23, 2015

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Parcel	Location	Owner and Mailing Address
125-83	1146 OLD PLAINVILLE RD	FERNANDES STEPHEN, 1146 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125B-271 NS	LANG ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125B-313 NS	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125B-307 NS	PELLETIER ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-60	1115 OLD PLAINVILLE RD	COACHE ROBERT M, COACHE JANE A 1115 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125-75	38 NEW PLAINVILLE RD -40	MACHADO FRANK W, AMARAL JOHN M 40 NEW PLAINVILLE RD NEW BEDFORD, MA 02745
125-17	1128 OLD PLAINVILLE RD	MCKAY LILIANNE S, 1128 PLAINVILLE RD NEW BEDFORD, MA 02745
125-5A	875 OLD PLAINVILLE RD	TIMMS BENJAMIN S, CABRAL ALYSSA E 875 OLD PLAINVILLE ROAD - UNIT A NEW BEDFORD, MA 02745
125B-236 NS	PELLETIER ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-62	904 OLD PLAINVILLE RD	MILLER LISA M, 904 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
125-123	878 OLD PLAINVILLE RD	OLD PLAINVILLE COMMONS LLC, C/O R P PROPERTIES INC 396 WASHINGTON ST #292 WELLESLEY, MA 02481
124-28 SS	OLD PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-63	862 OLD PLAINVILLE RD	OLD PLAINVILLE COMMONS LLC, C/O R P PROPERTIES INC 396 WASHINGTON ST #292 WELLESLEY, MA 02481

December 23, 2015

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Parcel	Location	Owner and Mailing Address
124-41	1194 OLD PLAINVILLE RD	SHERIDAN CAROL A DUPHILY-, SHERIDAN PATRICK J 1194 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125-124	882 OLD PLAINVILLE RD	OLD PLAINVILLE COMMONS LLC, C/O R P PROPERTIES INC 396 WASHINGTON ST #292 WELLESLEY, MA 02481
125-14	1172 OLD PLAINVILLE RD	DAVID OCTAVIA J, 1172 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125-128A	50 NEW PLAINVILLE RD	FRIAS LUIS 'TRS', KAMAL SAYED 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139 -0005
125-138	33 NEW - 35 PLAINVILLE RD	NEW BEDFORD HOUSING AUTHORITY, 134 SOUTH SECOND STREET NEW BEDFORD, MA 02740
125-127	<del>85</del> NEW 52 PLAINVILLE RD	FRIAS LUIS 'TRS', KAMAL SAYED 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139 -0005
125-116	34 NEW PLAINVILLE RD	BOURGAULT PAMELA A, 34 PLAINVILLE ROAD NEW BEDFORD, MA 02745
125-139	37 NEW - 39 PLAINVILLE RD	NEW BEDFORD HOUSING AUTHORITY, 134 SOUTH SECOND STREET NEW BEDFORD, MA 02740
125-121	WS NEW PLAINVILLE RD	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
125-58	SS NEW PLAINVILLE RD	LIVINGSTONE EDWIN, PIRES MARY LOU 32 PARKER STREET NEW BEDFORD, MA 02740
125-38	42 LEBOEUF ST	CHABIOR RICHARD S, 26 LAKEVIEW DRIVE SPENCER, MA 01562
125-22	SS NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-74	NS NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740

December 23, 2015

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Parcel	Location	Owner and Mailing Address
125-4 <i>54</i>	NEW PLAINVILLE RD	FRIAS LUIS 'TRS', SAYED KAMAL 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139
125-71 <i>NS</i>	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, 133 WILLIAM ST NEW BEDFORD, MA 02740
125-5B	875 OLD PLAINVILLE RD Unit: B	BURGESS SCOTT E C/O TOM SCOTT DEVELOPMENT LLC 492 FRONT STREET WEYMOUTH, MA 02188
125-5C	875 OLD PLAINVILLE RD Unit: C	<del>DUDDY EDWARD J</del> <i>Scott E. Burgess c/o Tom Scott</i> <del>875 OLD PLAINVILLE RD - UNIT C</del> <i>492 Front St. Development LLC</i> <del>NEW BEDFORD, MA 02745</del> <i>Weymouth, MA</i>
125-5D	875 OLD PLAINVILLE RD Unit: D	<del>BURGESS SCOTT E</del> <i>Douglas Marshall (02188)</i> <del>C/O TOM SCOTT DEVELOPMENT LLC</del> <i>+ Meagan Vieira</i> <del>492 FRONT STREET</del> <i>875 Old Plainville Rd. Unit D</i> <del>WEYMOUTH, MA 02188</del> <i>New Bedford, MA 02745</i>
125-5E	875 OLD PLAINVILLE RD Unit: E	SMOLA KAREN A 875 OLD PLAINVILLE ROAD - UNIT E NEW BEDFORD, MA 02745
125-5F	875 OLD PLAINVILLE RD Unit: F	ROSENFELD RICK 875 OLD PLAINVILLE ROAD - UNIT F NEW BEDFORD, MA 02745
125-5G	875 OLD PLAINVILLE RD Unit: G	ALMEIDA MIGUEL 875 OLD PLAINVILLE ROAD UNIT G NEW BEDFORD, MA 02745
125-5H	875 OLD PLAINVILLE RD Unit: H	SANTOS GABRIEL D 875 OLD PLAINVILLE RD - UNIT H NEW BEDFORD, MA 02745
125-5I	875 OLD PLAINVILLE RD Unit: I	MEDEIROS JOANNA L C/O JOANNA L RIOUX 875 OLD PLAINVILLE RD - UNIT I NEW BEDFORD, MA 02745
125-5J	875 OLD PLAINVILLE RD Unit: J	CHAVES-LEVERETT JESSICA L 875 OLD PLAINVILLE RD - UNIT J NEW BEDFORD, MA 02745
125-5K	875 OLD PLAINVILLE RD Unit: K	MAGNER MICHAEL 875 OLD PLAINVILLE ROAD <i>Unit K</i> NEW BEDFORD, MA 02745
125-5L	875 OLD PLAINVILLE RD Unit: L	CORMIER JEFFREY B 875 OLD PLAINVILLE RD - UNIT L NEW BEDFORD, MA 02745

December 23, 2015

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125-5M	875 OLD PLAINVILLE RD Unit: M	TINKHAM DANIELLE G 875 OLD PLAINVILLE RD - UNIT M NEW BEDFORD , MA 02745
125- 128AA	50 NEW PLAINVILLE RD Unit: E-25	FRIAS LUIS "TRS" SAYED KAMAL "TRS" P O BOX 390430 CAMBRIDGE , MA 02139
125-128B	50 NEW PLAINVILLE RD Unit: A-2	KAMAL SAYED "TRUSTEE" SAMER ABU-GHAZALEH "TRUSTEE" P O BOX 50489 NEW BEDFORD , MA 02745
125- 128BB	50 NEW PLAINVILLE RD Unit: E-26	STOLTZ SHIRLEY "TRUSTEE" SHIRLEY STOLTZ REALTY TRUST 50 NEW PLAINVILLE ROAD <del>APT 20</del> Unit E-26 NEW BEDFORD , MA 02740
125-128C	50 NEW PLAINVILLE RD Unit: A-3	FRIAS LUIS `TRS` KAMAL SAYED `TRS` P O BOX 390430 CAMBRIDGE , MA 02139
125- 128CC	50 NEW PLAINVILLE RD Unit: E-27	LEWIS ROBERT S MORSE DAVID J 50 NEW PLAINVILLE RD-UNIT E-27 NEW BEDFORD , MA 02745
125-128D	50 NEW PLAINVILLE RD Unit: A-4	KREMER BORIS <del>583 MAIN STREET ACUSHNET, MA 02743</del> 50 New Plainville Rd. #4 New Bedford, MA 02745
125- 128DD	50 NEW PLAINVILLE RD Unit: E-28	FRIAS LUIS `TRS` SAYED KAMAL `TRS` P O BOX 390430 CAMBRIDGE , MA 02139
125-128E	50 NEW PLAINVILLE RD Unit: A-5	WILLOWS EXECUTIVE INVESTMENTS, 50 NEW PLAINVILLE RD UNIT-A-5 NEW BEDFORD , MA 02745
125- 128EE	50 NEW PLAINVILLE RD Unit: E-29	FRIAS LUIS `TRS` SAYED KAMAL `TRS` P O BOX 390430 CAMBRIDGE , MA 02139
125-128F	50 NEW PLAINVILLE RD Unit: A-6	FRIAS LUIS `TRUSTEE` SAYED KAMAL `TRUSTEE` P O BOX 390430 CAMBRIDGE , MA 02139

December 23, 2015

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125-128FF	50 NEW PLAINVILLE RD Unit: E-30	<del>LEWIS ROBERT S 'TRS'</del> Luis Frias <del>ROBERT S LEWIS REALTY TRUST</del> Kamal Sayed (Trs) <del>50 NEW PLAINVILLE ROAD B-7</del> PO Box 390430 <del>NEW BEDFORD, MA 02745</del> Cambridge, MA 02139
125-128G	50 NEW PLAINVILLE RD Unit: B-7	LEWIS ROBERT S 'TRS' ROBERT S LEWIS REALTY TRUST 50 NEW PLAINVILLE ROAD B-7 NEW BEDFORD, MA 02745
125-128GG	50 NEW PLAINVILLE RD Unit: F-31	FRIAS LUIS 'TRS' SAYED KAMAL 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139
125-128H	50 NEW PLAINVILLE RD Unit: B-8	FRIAS LUIS 'TRS' KAMAL SAYED 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139
125-128HH	50 NEW PLAINVILLE RD Unit: F-32	FRIAS LUIS 'TRS' SAYED KAMAL 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139
125-128J	50 NEW PLAINVILLE RD Unit: B-9	CLARKE LINDA A "TRUSTEE" LINDA TRUST 50 NEW PLAINVILLE ROAD #B-9 NEW BEDFORD, MA 02745
125-128JJ	50 NEW PLAINVILLE RD Unit: F-33	FRIAS LUIS 'TRS' SAYED KAMAL 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139
125-128K	50 NEW PLAINVILLE RD Unit: B-10	FRIAS LUIS 'TRS' SAYED KAMAL 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139
125-128KK	50 NEW PLAINVILLE RD Unit: F-34	WILLOWS EXECUTIVE INVESTMENTS, 50 NEW PLAINVILLE RD - UNIT F-34 NEW BEDFORD, MA 02745
125-128L	50 NEW PLAINVILLE RD Unit: B-11	<del>ST JOHN LOUIS</del> Willows Condominium One Association <del>66 PECKHAM ROAD</del> 50 New Plainville Rd <del>ACUSHNET, MA 02743</del> New Bedford, MA 02745
125-128LL	50 NEW PLAINVILLE RD Unit: F-35	FRIAS LUIS 'TRS' SAYED KAMAL 'TRS' P O BOX 390430 CAMBRIDGE, MA 02139

December 23, 2015

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125-128M	50 NEW PLAINVILLE RD Unit: B-12	COSTA DANA COSTA SIMONE F 600 ROCK O DUNDEE ROAD S. DARTMOUTH , MA 02748
125-128MM	50 NEW PLAINVILLE RD Unit: F-36	KHOGA YEHA 236 LAURIE CIRCLE BOLINGBROOK , IL 60440
125-128N	50 NEW PLAINVILLE RD Unit: C-13	CLARKE LINDA "TRS" LEONARD EDMUND R "TRS" 50 NEW PLAINVILLE RD UNIT C-13 NEW BEDFORD , MA 02745
125-128NN	50 NEW PLAINVILLE RD Unit: G-37	FISHER RICHARD A 50 NEW PLAINVILLE RD UNIT G-37 NEW BEDFORD , MA 02745
125-128P	50 NEW PLAINVILLE RD Unit: C-14	COSTA JOSEPH D 50 NEW PLAINVILLE RD # C-14 NEW BEDFORD , MA 02745
125-128PP	50 NEW PLAINVILLE RD Unit: G-38	STOLTZ SHIRLEY "TRUSTEE" SHIRLEY STOLTZ REALTY TRUST 50 NEW PLAINVILLE ROAD - UNIT 38 NEW BEDFORD , MA 02745
125-128Q	50 NEW PLAINVILLE RD Unit: C-15	CLARKE LINDA "TRS" LINDA TRUST 50 NEW PLAINVILLE ROAD <i>C-15</i> NEW BEDFORD , MA 02745
125-128QQ	50 NEW PLAINVILLE RD Unit: G-39	FRIAS LUIS "TRS" SAYED KAMAL "TRS" P O BOX 390430 CAMBRIDGE , MA 02139
125-128R	50 NEW PLAINVILLE RD Unit: C-16	FRIAS LUIS "TRS" SAYED KAMAL "TRS" P O BOX 390430 CAMBRIDGE , MA 02139
125-128RR	50 NEW PLAINVILLE RD Unit: G-40	FRIAS LUIS "TRS" SAYED KAMAL "TRS" P O BOX 390430 CAMBRIDGE , MA 02139
125-128S	50 NEW PLAINVILLE RD Unit: C-17	LEWIS ROBERT S "TRS" ROBERT S LEWIS REALTY TRUST 50 NEW PLAINVILLE ROAD <del>B-7</del> <i>C-17</i> NEW BEDFORD , MA 02745
125-128SS	50 NEW PLAINVILLE RD Unit: G-41	ISMAIL ELIZABETH D 50 NEW PLAINVILLE ROAD <i>G-41</i> NEW BEDFORD , MA 02745

December 23, 2015

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125-128T	50 NEW PLAINVILLE RD Unit: C-18	FRIAS LUIS "TRS" SAYED KAMAL "TRS" P O BOX 390430 CAMBRIDGE , MA 02139
125- 128TT	50 NEW PLAINVILLE RD Unit: G-42	FRIAS LUIS `TRS` SAYED KAMAL `TRS` P O BOX 390430 CAMBRIDGE , MA 02139
125-128U	50 NEW PLAINVILLE RD Unit: D-19	STOLTZ SHIRLEY "TRUSTEE" SHIRLEY STOLTZ REALTY TRUST 50 NEW PLAINVILLE RD, UNIT #D19 NEW BEDFORD , MA 02745
125-128V	50 NEW PLAINVILLE RD Unit: D-20	ROBINSON CURTIS A 50 NEW PLAINVILLE RD D-20 NEW BEDFORD , MA 02745
125-128W	50 NEW PLAINVILLE RD Unit: D-21	FRIAS LUIS `TRS` KAMAL SAYED `TRS` P O BOX 390430 CAMBRIDGE , MA 02139
125-128X	50 NEW PLAINVILLE RD Unit: D-22	FRIAS LUIS `TRS` KAMAL SAYED `TRS` P O BOX 390430 CAMBRIDGE , MA 02139
125-128Y	50 NEW PLAINVILLE RD Unit: D-23	FRIAS LUIS `TRS` KAMAL SAYED `TRS` P O BOX 390430 CAMBRIDGE , MA 02139
125-128Z	50 NEW PLAINVILLE RD Unit: D-24	OSMAN ABBAS A I 50 NEW PLAINVILLE ROAD UNIT D-24 NEW BEDFORD , MA 02745

I, Carol A. Ando, Administrative Assistant to the Board of Assessors of the City of New Bedford, do hereby certify that the names and addresses as identified on the attached "abutters list" are duly recorded and appear on the most recent tax.

Date: 12/2/2015

SUBJECT PROPERTY:

MAP 124-14 LOT \_\_\_\_\_

LOCATION SS New Plainville Rd

OWNER'S NAME Callaghan Sheila M C/o City of New Bedford

MAILING ADDRESS \_\_\_\_\_

CONTACT PERSON Megan Kearns

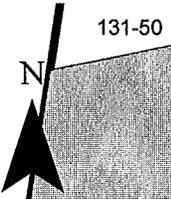
TELEPHONE NUMBER 949-945-4010

EMAIL ADDRESS mkearns@epsilonassociates.com

REASON FOR REQUEST

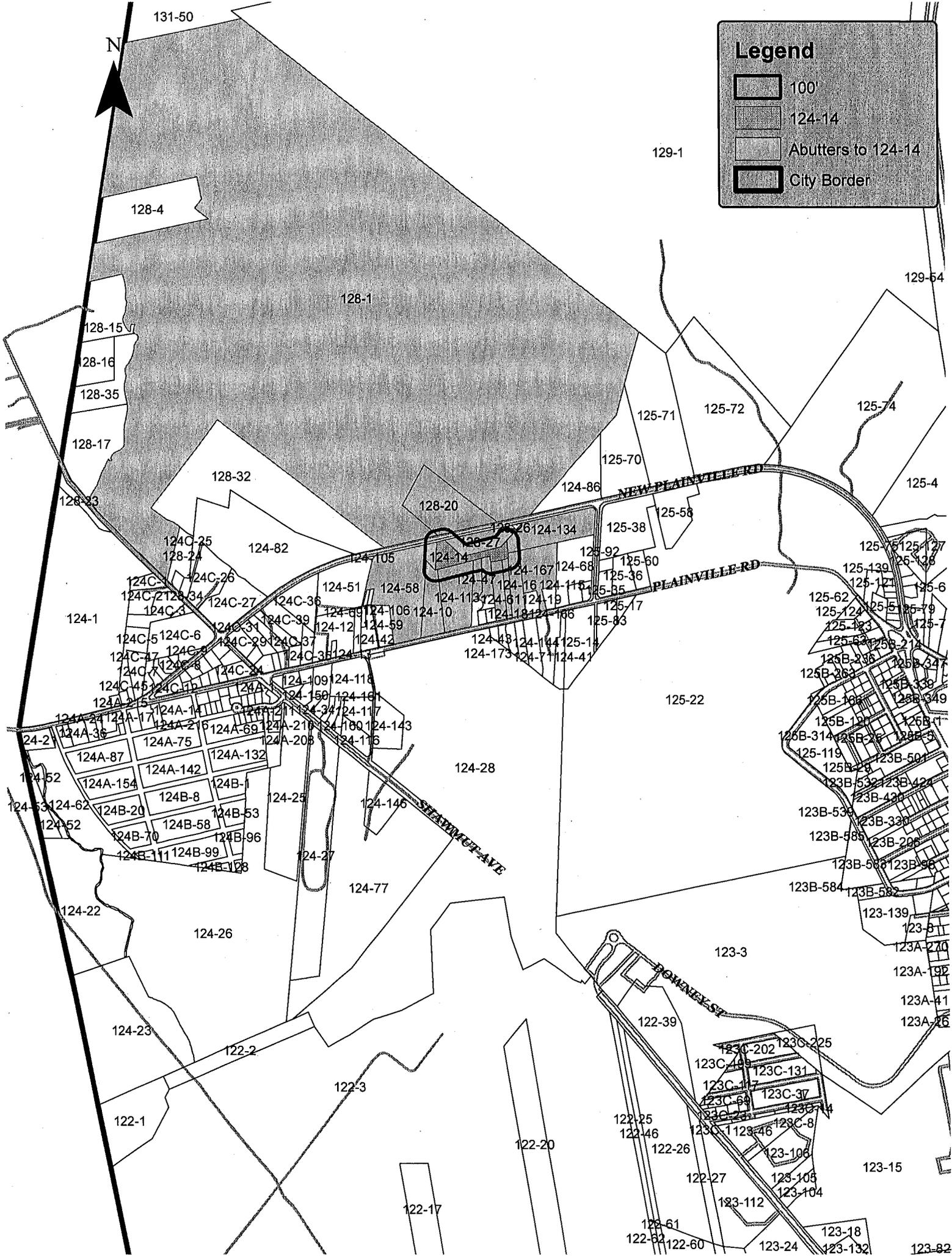
Notice of Intent

PLANNING  
NOV 24 2015  
DEPARTMENT



**Legend**

- 100'
- 124-14
- Abutters to 124-14
- City Border



131-50

128-4

129-1

128-1

129-54

128-15

128-16

128-35

128-17

128-23

128-32

125-71

125-72

125-74

125-4

128-20

125-70

125-58

124C-25

124-82

124-105

124-14

124-26

124-134

NEW PLAINVILLE RD

PLAINVILLE RD

124C-21

124C-34

124C-27

124C-36

124-51

124-58

124-167

124-68

125-92

125-60

125-36

124-1

124C-5

124C-6

124C-9

124C-29

124C-37

124-12

124-59

124-113

124-61

124-19

125-85

125-17

124C-7

124C-8

124C-24

124C-38

124-43

124-44

125-14

124-173

124-77

124-41

125-75

125-127

125-138

125-139

125-121

125-6

125-124

125-5

125-79

125-123

125-7

125-53

125B-21

125B-238

125B-347

125B-363

125B-339

125B-105

125B-349

125B-121

125B-11

125B-314

125B-25

125B-3

125-119

123B-501

125B-29

123B-532

123B-424

123B-430

123B-530

123B-330

123B-585

123B-206

123B-588

123B-96

123B-584

123B-582

123-139

123-51

123A-270

123A-92

123A-41

123A-26

123-3

122-39

123C-202

123C-225

123C-105

123C-131

123C-117

123C-37

123C-64

123C-14

123C-23

123C-8

123C-11

123-106

122-25

123-105

122-46

123-104

122-26

123-112

122-25

122-46

122-26

122-27

122-61

122-62

122-60

123-106

123-18

123-132

123-82

122-1

124-23

122-2

122-3

122-17

122-20

124-77

124-28

125-22

124-25

124-146

124-109

124-118

124-150

124-161

124-34

124-117

124-211

124-34

124-117

124-216

124-69

124-210

124-180

124-143

124-208

124-116

124A-24

124A-17

124A-14

124A-21

124A-36

124A-87

124A-154

124A-75

124A-142

124A-87

November 24, 2015

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as SS New Plainville Road (124-14). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

Please note that multiple listed properties with identical owner name and mailing address shall be considered duplicates, and shall require only 1 mailing. Additionally, City of New Bedford-Owned properties shall not require mailed notice.

Parcel	Location	Owner and Mailing Address
128-1 <i>NS</i>	NEW PLAINVILLE RD	COMMONWEALTH OF MASS DEPT, DEPT OF ENVIRONMENTAL MGT OFFICE OF THE COMMISSIONER BOSTON, MA 02202 <i>100 Cambridge St.</i>
124-168 <i>NZ</i>	PLANEVIEW LN	NEW HOMES BY CASTELO INC, 1815 ACUSHNET AVENUE NEW BEDFORD, MA 02745
128-27 <i>SS</i>	NEW PLAINVILLE RD	BROWNELL WILLIAM J, BROWNELL CHARLES 1210 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-16	1225 OLD PLAINVILLE RD	ALVES NAPOLEON JR, ALVES ROGER L, <i>Eugenia M. Andrews</i> 69 CENTRAL AVE <i>PO Box 57</i> EAST FALMOUTH, MA 02536
124-167 <i>NS</i>	OLD PLAINVILLE RD	LETOURNEAU ROBERT, LETOURNEAU DEBRA 1207 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-58 <i>SS</i>	NEW PLAINVILLE RD	CONGREGATION TIFEREETH, ISRAEL 145 BROWNELL AVE NEW BEDFORD, MA 02740
124-10 <i>NS</i>	OLD PLAINVILLE RD	TIFEREETH ISRAEL CONGREGATION, OF NEW BEDFORD INC 145 BROWNELL AVE NEW BEDFORD, MA 02740
124-113 <i>NS</i>	OLD PLAINVILLE RD	AHAVATH ACHIM, CONGREGATION INC NEW BEDFORD, MA 02740
124-61	1243 OLD PLAINVILLE RD	VIEIRA LUIS, 1243 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-47 <i>NS</i>	PLANEVIEW LN	NEW HOMES BY CASTELO INC, 1815 ACUSHNET AVENUE NEW BEDFORD, MA 02745
124-18	1227 OLD PLAINVILLE RD	<del>SIMON THOMAS W "TRUSTEE", SIMON ANNE M "TRUSTEE"</del> 1227 OLD PLAINVILLE ROAD <i>Lindsey O'Connor + Blake Barbosa</i> NEW BEDFORD, MA 02745
128-26 <i>SS</i>	NEW PLAINVILLE RD	SMITH NORMAND F SMITH III "TRS", RICHARD G HAWES REVOCABLE TRUST PO BOX 87121 SO DARTMOUTH, MA 02748-0702
124-134 <i>SS</i>	NEW PLAINVILLE RD	CIOPER TEDDY "TRUSTEE", CIOPER NOMINEE TRUST 308 MIDDLE RD ACUSHNET, MA 02743



I, Carol Amadio, Administrative Assistant to the Board of Assessors of the City of New Bedford, do hereby certify that the names and addresses as identified on the attached "abutters list" are duly recorded and appear on the most recent tax.

Date: 12/2/2015

SUBJECT PROPERTY:

MAP 124-113 LOT \_\_\_\_\_

LOCATION NS Old Plainville Rd

OWNER'S NAME Ahavath Achim Congregation Inc

MAILING ADDRESS \_\_\_\_\_

CONTACT PERSON Megan Kearns

TELEPHONE NUMBER 949-945-4010

EMAIL ADDRESS mkearns@epsilonassociates.com

REASON FOR REQUEST

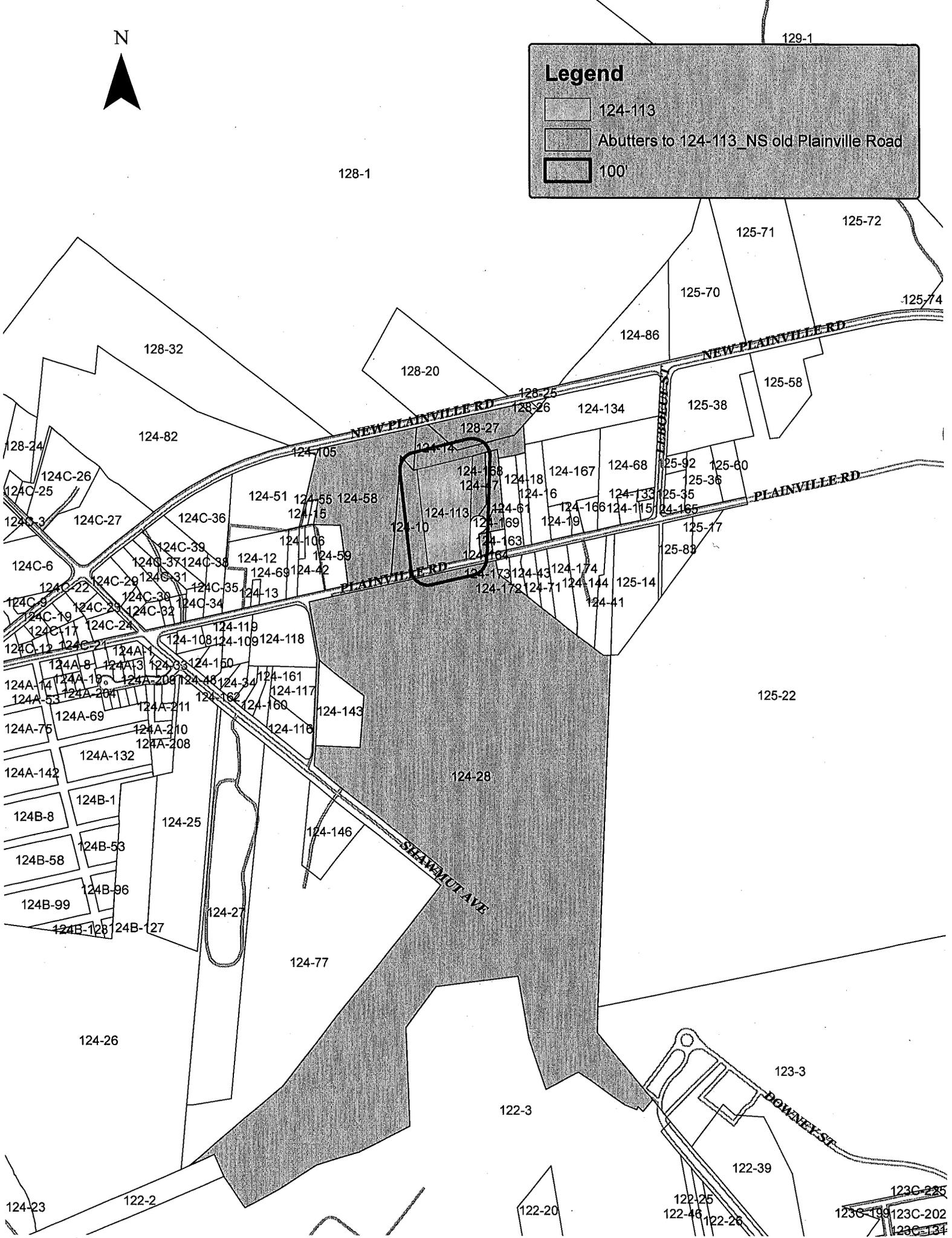
Notice of Intent

PLANNING  
NOV 24 2015  
DEPARTMENT



**Legend**

-  124-113
-  Abutters to 124-113\_NS old Plainville Road
-  100'



November 24, 2015

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as NS Old Plainville Rd (124-113). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

Please note that multiple listed properties with identical owner name and mailing address shall be considered duplicates, and shall require only 1 mailing. Additionally, City of New Bedford-Owned properties shall not require mailed notice.

Parcel	Location	Owner and Mailing Address
124-168 <i>NS</i>	PLANEVIEW LN	NEW HOMES BY CASTELO INC, 1815 ACUSHNET AVENUE NEW BEDFORD, MA 02745
128-27 <i>SS</i>	NEW PLAINVILLE RD	BROWNELL WILLIAM J, BROWNELL CHARLES 1210 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-169 <i>WS</i>	PLANEVIEW LN	NEW HOMES BY CASTELO INC, 1815 ACUSHNET AVENUE NEW BEDFORD, MA 02745
124-28 <i>SS</i>	OLD PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124-58 <i>SS</i>	NEW PLAINVILLE RD	CONGREGATION TIFEREETH, ISRAEL 145 BROWNELL AVE NEW BEDFORD, MA 02740
124-164	1255 OLD PLAINVILLE RD	GALLIGAN ELEANOR L, 1255 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
124-14 <i>SS</i>	NEW PLAINVILLE RD	CALLAGHAN SHEILA M, C/O CITY OF NEW BEDFORD 133 WILLIAM STREET NEW BEDFORD, MA 02740
124-10 <i>NS</i>	OLD PLAINVILLE RD	TIFEREETH ISRAEL CONGREGATION, OF NEW BEDFORD INC 145 BROWNELL AVE NEW BEDFORD, MA 02740
124-113 <i>NS</i>	OLD PLAINVILLE RD	AHAVATH ACHIM, CONGREGATION INC NEW BEDFORD, MA 02740
124-47 <i>NS</i>	PLANEVIEW LN	NEW HOMES BY CASTELO INC, 1815 ACUSHNET AVENUE NEW BEDFORD, MA 02745

**Attachment E**

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Order of Resource Area Delineation



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands

DEP File Number:

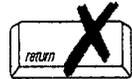
**WPA Form 4B – Order of Resource Area Delineation**

SE49-0591  
 Provided by DEP

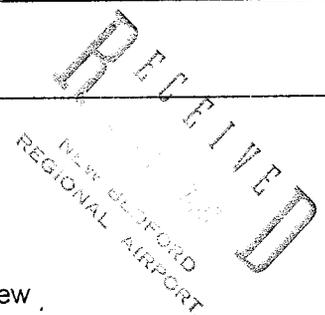
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**A. General Information**

**Important:**  
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



**Note:**  
 Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance



From: New Bedford  
 1 Conservation Commission

2. This Issuance is for (check one):

- a.  Order of Resource Area Delineation Only
- b.  Order of Resource Area Delineation Subject to Simplified Review
  - 1.  Not Subject to Stormwater Policy
  - 2.  Subject to Stormwater Policy
- c.  Amended Order of Resource Area Delineation

3. To: Applicant:

James Burgess New Bedford Regional Airport  
 a. First Name b. Last Name c. Company  
1569 Airport Road  
 d. Mailing Address  
New Bedford MA 02746  
 e. City/Town f. State g. Zip Code

4. Property Owner (if different from applicant):

City of New Bedford  
 a. First Name b. Last Name c. Company  
133 William St.  
 d. Mailing Address  
New Bedford MA 02740  
 e. City/Town f. State g. Zip Code

5. Project Location:

1569 Airport Road New Bedford  
 a. Street Address b. City/Town  
Maps 122; 123; 124; 125 Lot 3; Lot 3; Lot 28; Lots 22 & 74  
 c. Assessors Map/Plat Number d. Parcel/Lot Number  
 Latitude and Longitude (**note:** electronic filers will click for GIS locator):  
 e. Latitude f. Longitude

6. Dates: 10/30/06 7/31/07 8/16/07  
 a. Date Notice of Intent filed b. Date Public Hearing Closed c. Date of Issuance

7. Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

SEE ATTACHMENT A  
 a. Title b. Date  
 c. Title d. Date



## WPA Form 4B – Order of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

### C. Simplified Buffer Zone Review

Work within the Buffer Zone pursuant to the Simplified Review (310 CMR 10.02) requires that you must comply with the following conditions. If your project does not meet these requirements, you are required to either file a Determination of Applicability or Notice of Intent or take other corrective measures as directed by the Conservation Commission.

#### Simplified Review Conditions:

Work conducted under Simplified Review requires the following:

1. No work of any kind shall occur within any wetland resource areas including Riverfront Area and Bordering Land Subject to Flooding.
2. The inner 0-to-50-foot wide area from the delineated wetland boundary that has a Buffer Zone shall not be disturbed by any work associated with this project, including placement of any stormwater management components.
3. No work shall occur in the Buffer Zone bordering an Outstanding Resource Water (e.g., certified vernal pool, public water supply reservoir or tributary), as defined in 314 CMR 4.00 or border coastal resource areas at 310 CMR 10.25-10.35.
4. No work shall occur in the Buffer Zone adjacent to wetland resources with estimated wildlife habitat (which is identified on the most recent Estimated Habitat Map of State-listed Rare Wetlands Wildlife).
5. Erosion and Sedimentation controls shall be installed and maintained at the 50-foot Buffer Zone line or limit of work (whichever is a greater distance from the resource area) to protect resource areas during construction.
6. If the project is subject to the Massachusetts Stormwater Policy, all work shall be conducted in conformance with an approved Stormwater Management Plan.
7. The Buffer Zone does not contain a slope greater than an average of 15% at its steepest gradient across the 100-foot Buffer Zone.
8. The amount of new impervious surface, in combination with existing impervious surfaces, shall not exceed 40% of the Buffer Zone between 50 and 100 feet.
9. No work is allowed, and no additional NOI or RDA shall be filed, for any work within the 0-to-50-foot Buffer Zone during the three-year term of an Order associated with this application.
10. Prior to any work being undertaken pursuant to this Order, the wetland resource boundary shall be flagged; all boundary delineation flagging should be maintained for the term of the Order.
11. If stormwater management structures are proposed in the Buffer Zone, the stormwater management structures shall be maintained as required in the Stormwater Plan. Such maintenance constitutes an ongoing condition and is not subject to further permitting requirements.
12. If this ORAD involves work as part of a Simplified Review, the ORAD shall be recorded at the Registry of Deeds prior to the commencement of work per the requirements of Section F.
13. Prior to proceeding with any work under Simplified Review, applicants are required to provide written notice to the Commission one week prior to commencing any work.
14. If work authorized under Simplified Review is commenced, no work is allowed, and no additional NOI or RDA may be filed, for any work within the 0-to-50-foot buffer zone during the term of an ORAD associated with this application. If work authorized under Simplified Review is **not** commenced, then future NOIs or RDAs may be filed for work within the 0-to-50-foot portion of the buffer zone.

--End of Conditions--



**WPA Form 4B – Order of Resource Area Delineation**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**D. Findings**

This Order of Resource Area Delineation determines that the Stormwater Plan, if applicable, and the boundaries of those resource areas noted above, have been delineated and approved by the Commission and are binding as to all decisions rendered pursuant to the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40) and its regulations (310 CMR 10.00). This Order does not, however, determine the boundaries of any resource area or Buffer Zone to any resource area not specifically noted above, regardless of whether such boundaries are contained on the plans attached to this Order or to the Abbreviated Notice of Resource Area Delineation.

The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

If the Abbreviated Notice of Resource Area Delineation was filed as Simplified Review for a Buffer Zone project, the applicant has certified that any work associated with the proposed project meets all eligibility requirements for Simplified Review listed in Section C of this Order. Any work that does not comply with the Simplified Review requirements will require a Notice of Intent or Request for Determination of Applicability

The applicant is responsible for promptly requesting a Certificate of Compliance following completion of any work allowed pursuant to a Simplified Review or no later than three years from the date of the Order of Resource Area Delineation unless the Order is extended.

Failure to comply with the conditions of this Order is grounds for the Conservation Commission or the Department to take enforcement action.

This Order must be signed by a majority of the Conservation Commission. The Order must be sent by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate DEP Regional Office.

**E. Appeals**

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate DEP Regional Office to issue a Superseding Order of Resource Area Delineation. When requested to issue a Superseding Order of Resource Area Delineation, the Department's review is limited to the objections to the resource area delineation(s) stated in the appeal request. The request must be made by certified mail or hand delivery to the Department, with the appropriate fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be delivered by hand to the Conservation Commission and to the applicant, if he/she is not the appellant. Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to participate in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order or Determination, or providing written information to the Department prior to issuance of a Superseding Order or Determination.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act, (M.G.L. c. 131, § 40) and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.



Environmental Stewardship Department/  
New Bedford Conservation Commission

**City of New Bedford**  
Scott W. Lang, Mayor

**Attachment A – Approved Resource Areas & Plans  
City of New Bedford Regional Airport  
Order of Resource Area Delineation (SE49-591)  
Map 122, Lot 3; Map 123, Lot 3; Map 124, Lot 28; Map 125, Lots 22 & 74  
1569 Airport Road, New Bedford, MA 02746**

<u>Drawing Number/Final</u>	<u>Rev. Date</u>	<u>Approved Resource Area Boundaries</u>
Drawing P02 (sheet 3 of 20)	7/5/07	ILSF* as identified by WF B-100 through WF B-136.  BVW** boundary identified as WFD-177 through WFD 186.
Drawing P04 (sheet 5 of 20)	7/5/07	BVW boundary as identified by G1-100 through G1-150
Drawing P05 (sheet 6 of 20)	7/5/07	BVW boundary as identified by WFL1-101a through WFL 1-116
Drawing P17 (sheet 18 of 20)	7/5/07	BVW as identified by WFM4-149 through WFM4-152A & BVW as identified by MB2-104 through MB2-108

\* ILSF = Isolated Land Subject to Flooding

\*\* BVW = Bordering Vegetated Wetland

**Note:** the above listed resource areas and corresponding boundary delineations are the only Resource Area boundaries approved under this Order of Resource Area Delineation. Any other Resource Area Boundary shown on the plans for approval is an approximate boundary and not subject to approval under this Order of Resource Area Delineation.

7/31/07

**Attachment F**

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NOI Permit Drawings

(11x17") (prepared by ASG, full size set bound separately)

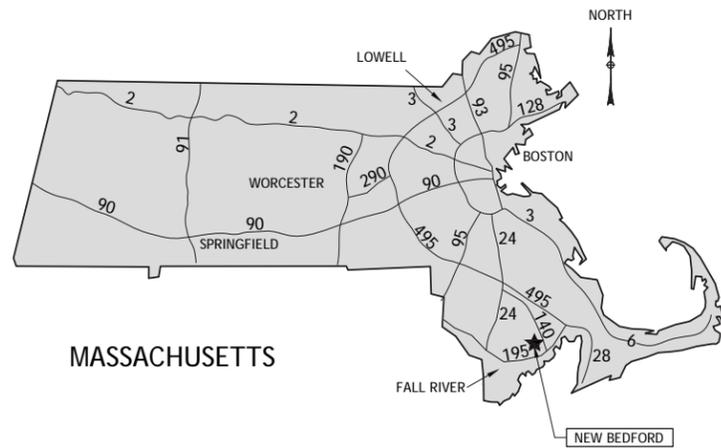
PERMITTING PLANS FOR

# newbedford regional airport

NEW BEDFORD AIRPORT COMMISSION  
1569 AIRPORT RD, NEW BEDFORD, MASSACHUSETTS 02746

## CONSTRUCT GRAVEL ACCESS ROAD AND CONSTRUCT OBSTRUCTION LIGHTS NOI PERMIT DRAWINGS

JANUARY 2016



LOCATION MAP



LOCUS MAP



NOI PERMIT DRAWINGS  
NOT FOR CONSTRUCTION

### PROPOSED CONSTRUCTION

- ① - CONSTRUCT GRAVEL ACCESS ROAD
- ② - CONSTRUCT OBSTRUCTION LIGHTS



PREPARED BY

**AIRPORT SOLUTIONS GROUP**  
 INNOVATIVE AIRPORT DEVELOPMENT SPECIALISTS  
 AIRPORT CONSULTANTS • WOBURN, MASSACHUSETTS  
 PHONE (781) 491-0083 FAX (781) 491-0360

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DRAWING NO.

# G1.1

1 OF 10

**ACCESS ROAD CONSTRUCTION NOTES:**

AIRPORT OPERATIONS COORDINATOR

THE OWNER WILL PROVIDE AN OPERATING COORDINATOR WHO SHALL HAVE THE AUTHORITY TO OPEN AND CLOSE FACILITIES, ISSUE AND CANCEL NOTAMS AND TO COORDINATE WITH AIRPORT USERS.

AIRPORT SECURITY

THE CONTRACTOR SHALL COMPLY WITH ALL AIRPORT SECURITY REQUIREMENTS AS DIRECTED BY THE AIRPORT OPERATIONS COORDINATOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ACCESS TO THE WORK AREA AND ENSURING THAT AIRPORT SECURITY IS MAINTAINED AT ALL TIMES. THE FAA CAN IMPOSE FINES OF \$10,000 OR MORE FOR SECURITY VIOLATIONS AND INCURSIONS INTO ACTIVE AIRCRAFT OPERATION AREAS (AOA). THE CONTRACTOR SHALL PAY ALL FINES ASSESSED AGAINST THE AIRPORT DUE TO VIOLATIONS CAUSED BY THE CONTRACTOR AND HIS/HER PERSONNEL, SUBCONTRACTORS AND VENDORS.

PARKING PERSONAL VEHICLES SHALL BE IN DESIGNATED LOCATIONS ONLY. THE CONTRACTOR, AS A SUBSIDIARY OBLIGATION, SHALL PROVIDE ADEQUATE AND SAFE TRANSPORTATION FOR HIS/HER EMPLOYEES TO / FROM THE AREA WHERE THE VEHICLES ARE PARKED TO AND FROM THE WORK AREAS, EMPLOYEES AND DRIVERS OF WORK VEHICLES SHALL BE INSTRUCTED AS TO PROPER ACCESS ROADS AND SHALL BE CAUTIONED THAT UNAUTHORIZED USE OF AIRCRAFT PAVEMENTS OR OTHER AREAS OUTSIDE THE DESIGNATED WORK AREAS MAY LEAD TO THEIR ARREST AND SUBSEQUENT PAYMENT OF FINES.

THE CONTRACTOR SHALL PROVIDE INSTRUCTION TO ALL MATERIAL SUPPLIERS REGARDING THE AIRPORT ACCESS PROCEDURES TO BE FOLLOWED BY THEIR DELIVERY DRIVERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ESCORTS OF CONTRACTOR MANAGEMENT STAFF, VENDORS, SUBCONTRACTORS, VISITORS, DELIVERY DRIVERS, AND OTHERS UNDER THE AUTHORITY OF THE CONTRACTOR WHILE ON THE AIRPORT.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER AND THE OWNER WITHIN 10 DAYS AFTER SIGNING OF THE CONTRACT AND PRIOR TO THE START OF WORK A WRITTEN METHOD OF OPERATIONS DETAILING THE PRECAUTIONS HE/SHE PROPOSES FOR THE CONTROL OF VEHICLE TRAFFIC INCLUDING FLAG PERSONS, SIGNS, BARRICADES, ESCORTS AND ANY OTHER MEASURES HE/SHE PROPOSES. AFTER REVIEW AND COMMENT ON HIS/HER OPERATING PROCEDURES BY THE ENGINEER AND THE OWNER, THE CONTRACTOR SHALL FOLLOW THEM EXPLICITLY. THE REVOCATION OF THE CLOSURE OF THE WORK AREA BY OWNER FOR NON-COMFORMANCE SHALL NOT CONSTITUTE A VALID REASON FOR EXTENDING THE CONTRACT TIME OR FOR ANY CLAIM FOR ADDITIONAL COMPENSATION BY THE CONTRACTOR.

ALL SECURITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.

THE CONTRACTOR'S PERSONNEL AND CONTRACTOR'S VEHICLES SHALL BE RESTRICTED AND SHALL REMAIN WITHIN THE WORK AREAS, HAUL AND ACCESS ROUTES, AND THE STAGING AREAS AS SHOWN ON THE CONTRACT PLANS.

AIR OPERATIONS AREA (AOA)

IN GENERAL, THE WORK ASSOCIATED WITH THIS PROJECT WILL REQUIRE THE CONTRACTOR TO BE NEAR OR WITHIN THE AIR OPERATIONS AREA (AOA). THE AOA IS ANY AREA OF AN AIRPORT USED OR INTENDED TO BE USED FOR LANDING, TAKEOFF, OR SURFACE MANEUVERING OF AIRCRAFT. AN AOA INCLUDES SUCH PAVED OR TURF AREAS THAT ARE USED OR INTENDED TO BE USED FOR THE UNOBSTRUCTED MOVEMENT OF AIRCRAFT IN ADDITION TO ITS ASSOCIATED RUNWAY, TAXIWAY, OR APRON.

FOR THIS PROJECT, THE CONTRACTOR SHALL KEEP HIS/HER PERSONNEL AND EQUIPMENT AT LEAST 200 FEET FROM THE CENTERLINE OF ACTIVE RUNWAYS AND AT LEAST 50 FEET FROM THE EDGE OF ACTIVE TAXIWAYS, TAXILANES, AND APRONS, UNLESS PREVIOUS WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE OWNER AND AFTER ALL REQUIRED PRECAUTIONS ARE TAKEN.

THE CONTRACTOR SHALL FURNISH AVIATION UNICOM RADIO(S), PER SPECIFICATION SECTION M-001. THE CONTRACTOR SHALL MONITOR NEW BEDFORD GROUND FREQUENCY 121.9 MHZ DURING HOURS WHEN THE ATCT IS OPERATED AND NEW BEDFORD CTAF FREQUENCY 118.1 MHZ DURING ALL OTHER HOURS.

OPEN TRENCHES OR EXCAVATIONS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE ANY TRENCHES OR OTHER EXCAVATIONS OPEN AT NIGHT, ON WEEKENDS, OR AT OTHER TIMES WHEN THE CONTRACTOR IS NOT ON THE WORK SITE, UNLESS APPROVALS ARE RECEIVED BY THE AIRPORT ADMINISTRATION AND THE CONTRACTOR PROTECTS THE EXCAVATION WITH STEEL PLATES, BARRICADES, AND LIGHTING, AS APPROVED BY THE ENGINEER. IN ADDITION, NO EXCAVATION EXCEEDING 3 INCHES IN DEPTH SHALL BE LEFT OPEN WITHIN AIRCRAFT OPERATION AREAS, AS DESCRIBED ABOVE, WHILE THE RUNWAY, TAXIWAY, AND APRONS ARE IN USE UNLESS THE EXCAVATIONS ARE COVERED WITH APPROVED STEEL PLATES. STEEL PLATES SHALL BE CAPABLE OF BEARING THE HEAVIEST AIRCRAFT/VEHICLE USING THE AIRPORT OVER THE SPAN IN WHICH THEY ARE TO BE USED. THE CONTRACTOR SHALL KEEP THE LENGTH OF OPEN TRENCHES COVERED WITH STEEL PLATES TO A MINIMUM BUT IN NO CASE SHALL THE LENGTH EXCEED THE DISTANCE BETWEEN TWO ADJACENT MANHOLES, CATCH BASINS, OR STRUCTURES.

ALL EXCAVATIONS SHALL BE BACK FILLED, COMPACTED AND THE PAVEMENT REPAIRED AND PROPERLY CURED PRIOR TO THE AREA BEING REOPENED TO TRAFFIC.

PRIOR TO THE CLOSE OF WORK EACH DAY, THE CONTRACTOR SHALL ENSURE THAT THE WORK AREAS TO BE REOPENED WITHIN AIRCRAFT OPERATION AREAS, AS DESCRIBED ABOVE, ARE GRADED AWAY FROM THE PAVEMENTS AT A MAXIMUM SLOPE OF 5% AND SHALL BE LEFT IN SUCH CONDITION THAT IT WILL DRAIN READILY AND EFFECTIVELY AND WILL NOT POSE A HAZARD TO VEHICLES OR AIRCRAFT. NO PILES OF SOIL SHALL BE LEFT UNSPREAD, NO SHARP CHANGES IN GRADE WILL BE PERMITTED, AND THE SURFACE SHALL BE THOROUGHLY COMPACTED.

DEBRIS AND DUST CONTROL

THE CONTRACTOR SHALL STRICTLY CONTROL DEBRIS AND LITTER AT AIRPORT WORK SITES. MUD, STONES OR OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM ALL PAVEMENTS TO FACILITATE

DAILY AIRCRAFT OPERATIONS AND A CLEAN ENVIRONMENT. DUST CONTROL MEASURES SHALL BE TAKEN AS NECESSARY BY THE CONTRACTOR TO ENSURE THAT NO DUST IS ALLOWED TO DRIFT INTO ANY AOA, INTO LOCATIONS WHERE AIRCRAFT ARE PARKED AT ANY TIME, OR SURROUNDING RESIDENCES. THE CONTRACTOR SHALL ENSURE THAT ALL PUBLIC ROADS ARE CONTINUOUSLY MAINTAINED FREE OF MUD AND DEBRIS THAT MAY RESULT FROM HIS OPERATIONS. DEBRIS AND DUST CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL REFER TO THE NPDES GENERAL PERMIT AND CONSTRUCTION SWPPP AS PREPARED BY THE ENGINEER FOR ADDITIONAL REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE A MANNED VAC SWEEPER DURING ALL TIMES WHEN ACTIVE AOA PAVEMENTS ARE CROSSED AT NO ADDITIONAL COST TO THE OWNER.

DISPOSAL OF SURPLUS AND UNSUITABLE MATERIALS

ALL UNSUITABLE SURPLUS EXCAVATED MATERIAL, INCLUDING ALL STRUCTURES AND PIPES, ALL BITUMINOUS CONCRETE PAVEMENT, AND ALL PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR OFF AIRPORT PROPERTY UNLESS SPECIFIC INSTRUCTIONS TO THE CONTRARY ARE INCLUDED IN THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE DISPOSAL.

ALL EXCESS MATERIAL OTHER THAN TOPSOIL SHALL BE LEGALLY DISPOSED OF OFF SITE. NO SEPARATE MEASUREMENT FOR PAYMENT SHALL BE MADE FOR DISPOSAL OF MATERIAL BUT RATHER THE DISPOSAL SHALL BE INCIDENTAL TO THE ITEM THAT GENERATES THE MATERIAL TO BE DISPOSED OF.

CONTRACTOR'S STAGING AREAS

THE CONTRACTOR SHALL USE THE AREAS SHOWN ON THE PLANS FOR HIS/HER STAGING AREAS. NO OTHER AREAS ARE APPROVED HEREIN WITHOUT THE EXPLICIT CONSENT OF THE AIRPORT MANAGER AND THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL IMPROVEMENT AND RESTORATION OF THE DESIGNATED AREAS SUCH AS GRUBBING, GRADING, AND CONSTRUCTION OF STABILIZED ACCESS ROADS, THAT IS NECESSARY FOR THE UTILIZATION OF THE AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY TEMPORARY ACCESS PERMITS AND ASSOCIATED FEES FOR ACCESS TO THE ADJACENT ROAD NETWORK. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK. ALL WORK NECESSARY TO USE THE STAGING AREAS SHALL BE DEEMED INCIDENTAL TO THE OVERALL PROJECT.

UNDERGROUND UTILITIES AND CABLES

THE APPROXIMATE LOCATIONS OF KNOWN UTILITIES AND UNDERGROUND CABLES ARE SHOWN ON THE CONTRACT DRAWINGS. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COORDINATE ALL WORK ON AND IN THE VICINITY OF THE UNDERGROUND UTILITIES AND CABLES WITH THE FOLLOWING AGENCIES AS APPROPRIATE.

- DIG SAFE (ON TARGET) AND INDICATED UTILITIES
- NEW BEDFORD REGIONAL AIRPORT - AIRPORT ADMINISTRATION
- CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE (DPI)
- VERIZON
- COMCAST
- NSTAR GAS COMPANY
- NSTAR ELECTRIC
- SPECTRA GAS COMPANY
- FEDERAL AVIATION ADMINISTRATION (FAA) AIRWAY FACILITIES

THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A UTILITY LOCATING CONTRACTOR TO MARK OUT ALL EXISTING UTILITIES, AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES IN THE PROJECT AREA, NOT LIMITED TO THOSE LISTED ABOVE, AND ADJUSTING THEIR WORK METHODS TO AVOID DAMAGE TO SAID UTILITIES.

THE CONTRACTOR SHALL REPAIR, AT HIS/HER OWN EXPENSE, ANY UNDERGROUND OR OVERHEAD CABLES OR UTILITIES DAMAGED BY HIS/HER OPERATIONS AT NO ADDITIONAL COST TO THE OWNER INCLUDING ANY DAMAGE DONE BY DRIVING HIS/HER EQUIPMENT OVER EXISTING UNDERGROUND CABLES OR UTILITIES. THE REPAIR OF FAA CABLES SHALL BE INSPECTED AND APPROVED BY THE FAA.

PERMITS

THE CONTRACTOR SHALL REFER TO, FULLY UNDERSTAND, AND PROVIDE ACKNOWLEDGEMENT OF THE FOLLOWING NEW BEDFORD REGIONAL AIRPORT DOCUMENTS, REPORTS, PLANS AND PERMITS PRIOR TO PROCEEDING WITH THE PROJECT:

- 2015 - STORMWATER POLLUTION PREVENTION PLAN (SWPPP) - EPA NPDES GENERAL PERMIT FOR CONSTRUCTION
- NEW BEDFORD CONSERVATION COMMISSION ORDER OF CONDITIONS

WETLANDS

DISTURBANCE OF WETLANDS IS A POTENTIAL VIOLATION OF FEDERAL, STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO COMPLY WITH FEDERAL, STATE, AND LOCAL PROTECTION REGULATIONS. THE CONTRACTOR SHALL PAY ALL FINES ASSESSED AGAINST THE AIRPORT FOR UNAUTHORIZED WETLAND DISTURBANCE AND RELATED EXPENSES DUE TO VIOLATIONS CAUSED BY THE CONTRACTOR AND HIS/HER PERSONNEL, SUBCONTRACTORS AND VENDORS.

SWPPP

IN 2015, THE NEW BEDFORD REGIONAL AIRPORT DEVELOPED A COMPREHENSIVE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS A MEANS TO ACHIEVE COMPLIANCE WITH THE EPA'S NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES DURING CONSTRUCTION ACTIVITIES. THE AIRPORT HAS THE AUTHORITY TO INSPECT THE CONTRACTOR'S OPERATION WHILE OPERATING ON THE NEW BEDFORD REGIONAL AIRPORT PROPERTY AND IMPOSE EQUIPMENT FUELING AND MAINTENANCE RESTRICTIONS AND REQUIRE ADDITIONAL EROSION CONTROL BMP'S AND OTHER PROTECTIVE MEASURES TO BE INSTALLED TO REMAIN IN COMPLIANCE WITH THE EPA UNDER THE AIRPORTS SWPPP. THE CONTRACTOR, AS THE SITE "OPERATOR", SHALL BE REQUIRED TO ADHERE TO THE SWPPP FOR CONSTRUCTION AS DEVELOPED BY THE AIRPORT'S ENGINEER AND SHALL BE REQUIRED TO SIGN THE SWPPP AND THE INSPECTION REPORTS PRODUCED BY THE ENGINEER.

**INDEX TO DRAWINGS**

SHEET NO.	DWG NO.	SHEET TITLE
1	G1.1	COVER SHEET
2	G1.2	ACCESS ROAD NOTES AND INDEX TO DRAWINGS
3	G1.3	WETLAND REPLICATION AND TREE CLEARING NOTES
4	G1.4	GENERAL PLAN
5	C1.1	GRAVEL ACCESS ROAD
6	C2.1	TREE CLEARING - ACCESS ROAD
7	C3.1	EROSION CONTROLS DETAILS
8	C4.1	MISCELLANEOUS DETAILS
9	L1.1	OBSTRUCTION LIGHTING PLAN
10	W1.1	WETLAND REPLICATION PLAN

**LEGEND**

	38	EXISTING MAJOR CONTOUR
	38	PROPOSED MAJOR CONTOUR
		BORDERING VEGETATIVE WETLANDS LIMIT
		OPEN WATER
	25'	25' WETLAND BUFFER ZONE
	100'	100' WETLAND BUFFER ZONE
		CONTRACTOR'S STAGING AREA
		CONTRACTOR HAUL ROAD
		RUNWAY SAFETY AREA (FAA SAFETY SURFACE)
		OBJECT FREE ZONE (FAA SAFETY SURFACE)
		RUNWAY OBJECT FREE AREA (FAA SAFETY SURFACE)
		FAR PART77 34:1 APPROACH SURFACE
		FAA TYPE4 20:1 APPROACH SURFACE
		COMPOST FILTER SOCK
		2"-2 WAY CONDUIT
		WETLAND FLAGGING
		SINGLE OBSTRUCTION LIGHT
		DOUBLE OBSTRUCTION LIGHT
		CLEARING AND TREE REMOVAL (NO CLEARING AND GRUBBING)
		CLEARING AND GRUBBING
		NON-AIRPORT PROPERTY LINE
		WETLAND DELINEATION



NO.	DATE	DESCRIPTION	BY

PROJECT	OWNER
RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS

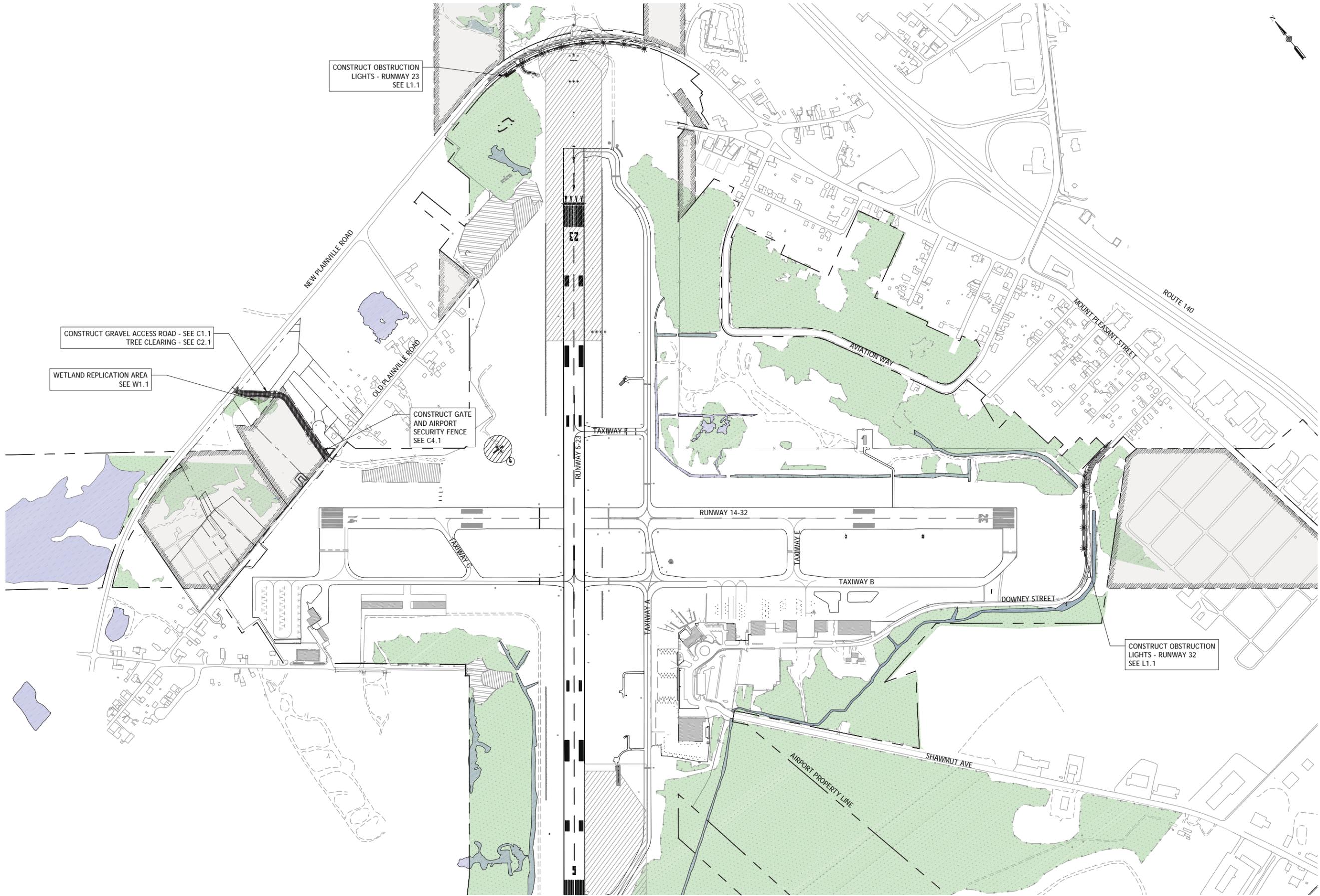
PROJECT NO.	103-036
CADD FILE	SHEET_GENERAL
DESIGNED BY	CNM
DRAWN BY	CNM
CHECKED BY	CAS
DATE	JANUARY 2016
DRAWING SCALE	N.T.S.

SHEET TITLE	GRAPHIC SCALE
ACCESS ROAD NOTES AND INDEX TO DRAWINGS	NOT TO SCALE

DRAWING NO.
G1.2
2 OF 10



12/22/2016 8:41:25 AM P:\ASG Data\Projects\MA - New Bedford\036 RW14-32 Tree Clearing\CADD\NOI Submission\103-036 SHEET\_GENERAL.dwg (C:\MSD)



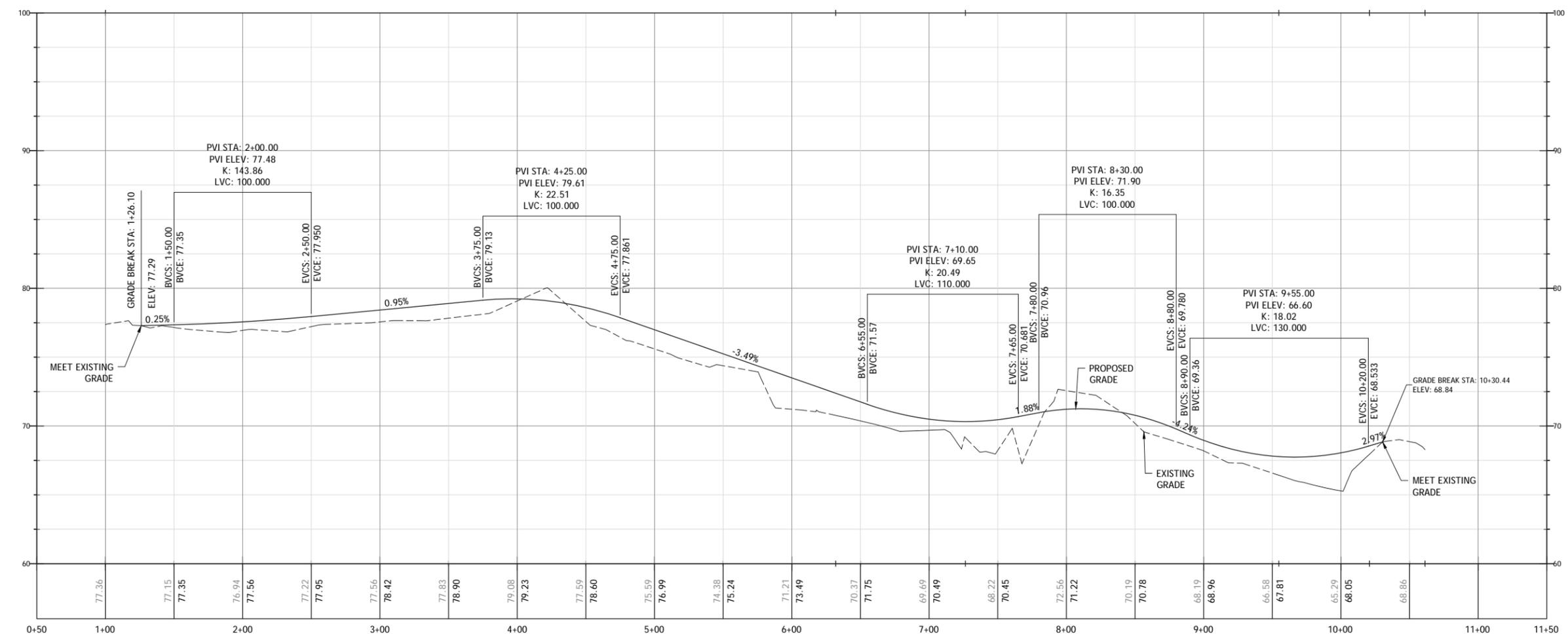
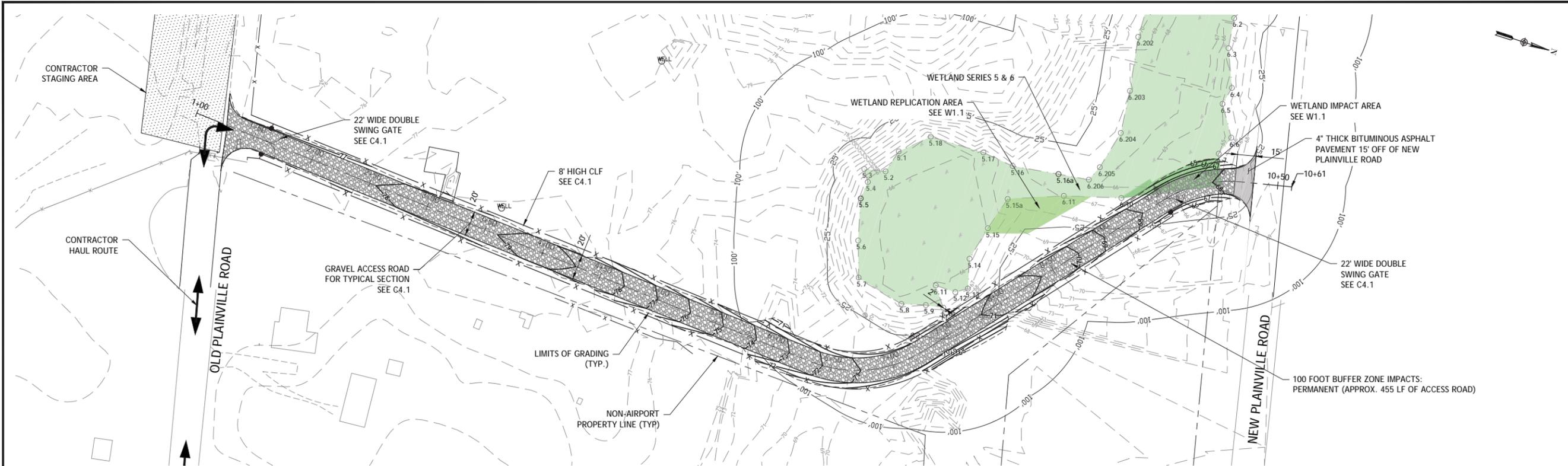
NO.	DATE	DESCRIPTION	BY

PROJECT	RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS
OWNER	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS

PROJECT NO.	103-036
CADD FILE	SHEET_GENERAL
DESIGNED BY	CAS
DRAWN BY	CNM
CHECKED BY	CAS
DATE	JANUARY 2016
DRAWING SCALE	1" = 300'

SHEET TITLE	GENERAL PLAN
GRAPHIC SCALE	0 150 300 600

DRAWING NO.	G1.4
4 OF 10	



12/21/2016 3:44:30 PM P:\ASG Data\Projects\MA - New Bedford\036 RW14-32 Tree Clearing\CADD\NOI Submission\103-036 SHEET GRADING.dwg (CMM)

NO.	DATE
DESCRIPTION	BY
PROJECT: RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS OWNER: NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS	
PROJECT NO. 103-036	SHEET GRADING
CADD FILE	CMM
DESIGNED BY	CMM
DRAWN BY	CMM
CHECKED BY	CAS
DATE	JANUARY 2016
DRAWING SCALE	1" = 40'
SHEET TITLE: <b>GRAVEL ACCESS ROAD</b> 	
DRAWING NO. <b>C1.1</b>	
5 OF 10	

12/22/2016 8:32:13 AM P:\MSG\_Data\Projects\MA - New Bedford\036 RW14-32 Tree Clearing\CADD\NOI Submission\103-036 SHEET\_CLEARING.dwg (CMM)

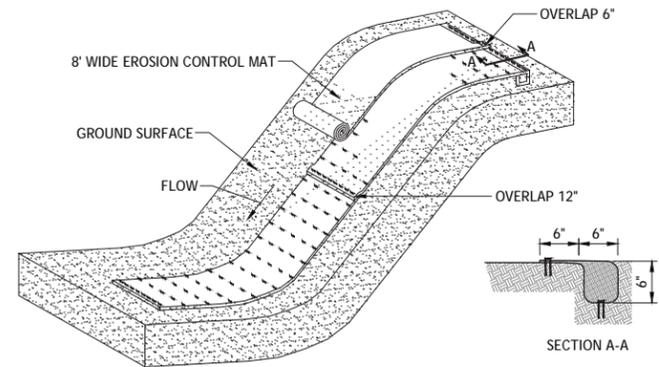


- NOTES:**
1. FOR ACCESS ROAD CONSTRUCTION NOTES SEE G1.2.
  2. FOR TREE CLEARING NOTES SEE G1.3.
  3. WETLAND REPLICATION AREA TO BE CONSTRUCTED PRIOR TO ACCESS ROAD CONSTRUCTION
  4. COMPOST FILTER SOCK SHALL BE PLACED AT THE LIMITS OF WORK PRIOR TO START OF TREE CLEARING.

**LEGEND**

	CLEARING AND TREE REMOVAL (NO CLEARING OR GRUBBING)
	CLEARING AND GRUBBING

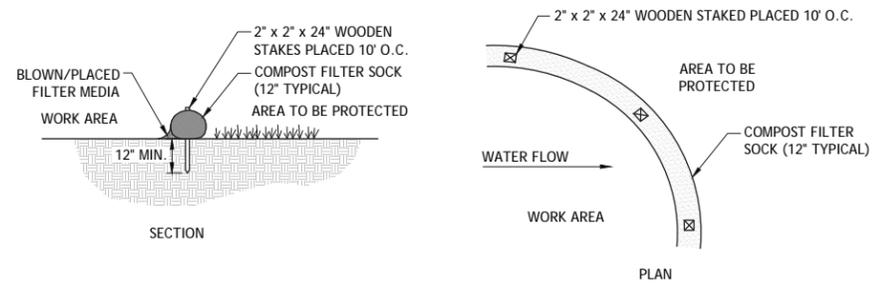
 <small>INNOVATIVE AIRPORT DEVELOPMENT SPECIALISTS          100 BEDFORD STREET, SUITE 200          NEW BEDFORD, MASSACHUSETTS 01903          TEL: 508.451.1234 FAX: 508.451.1235          WWW.AIRPORTSOLUTIONSGROUP.COM</small>																																																																																																																																																																																																																																																																																																																																																					
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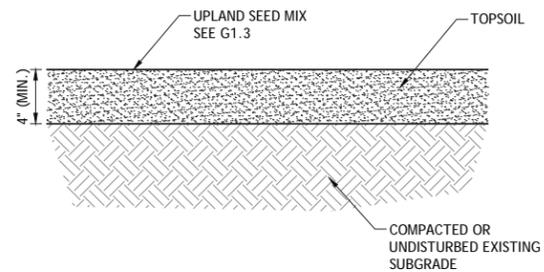
**EROSION CONTROL MATTING NOTES:**

1. PRIOR TO PLACING EROSION CONTROL MATTING, PREPARE THE SOIL BY RAKING AREA FREE OF CLODS AND LARGE STONES.
2. SEED, MULCH AND FERTILIZER SHALL BE DISTRIBUTED AS SPECIFIED OVER THE PREPARED SOIL PRIOR TO PLACING THE EROSION CONTROL MATTING.
3. ALL SEAMS SHALL BE OVERLAPPED A MINIMUM OF 12" AND SECURED WITH STAPLES 18" ON CENTER.
4. TO SECURE MAT TO GROUND, STAPLE RANDOMLY AT 24" INTERVALS THROUGHOUT, OR AT 12" AT ENDS
5. APPROXIMATELY 200 STAPLES PER ROLL
6. PLACE EROSION CONTROL MATTING AS DIRECTED BY THE ENGINEER, ON SLOPES GREATER THAN 5:1, AND AS SHOWN ON THESE C4.1 AND W1.1.

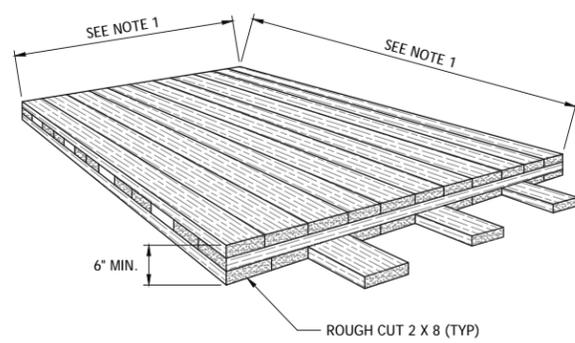
**EROSION CONTROL MATTING DETAIL**  
SCALE: N.T.S.



**COMPOST FILTER SOCK DETAIL**  
SCALE: N.T.S.



**TOPSOIL AND SEED DETAIL**  
SCALE: N.T.S.



**TIMBER BOG MAT NOTES:**

1. THE LENGTH AND WIDTH DIMENSIONS OF THE TIMBER BOG MATS USED DURING CONSTRUCTION SHALL BE SELECTED ACCORDINGLY BASED ON THE SIZE OF THE EQUIPMENT INTENDED TO OPERATE ON THEM. AT NO TIME SHALL THE WHEEL BASE OR TRACK WIDTH OF THE EQUIPMENT WORKING ON THE TIMBER BOG MATS BE WIDER THAN THE MAT.
2. IN THE OPINION OF THE ENGINEER, TIMBER BOG MATS THAT ARE BROKEN, CRACKED, OR SEVERELY DETERIORATED BEYOND THEIR USEFUL SERVICE LIFE MUST BE REPLACED BY THE CONTRACTOR AT THE ENGINEERS' DISCRETION.
3. TIMBER BOG MATS SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
4. MATS SHALL BE A MINIMUM OF 14 FT WIDE.
5. STEEL OR COMPOSITE MATS MAY BE SUBMITTED IN PLACE OF TIMBER.

**TIMBER BOG MAT DETAIL**  
SCALE: N.T.S.



NO.	DATE	DESCRIPTION	BY

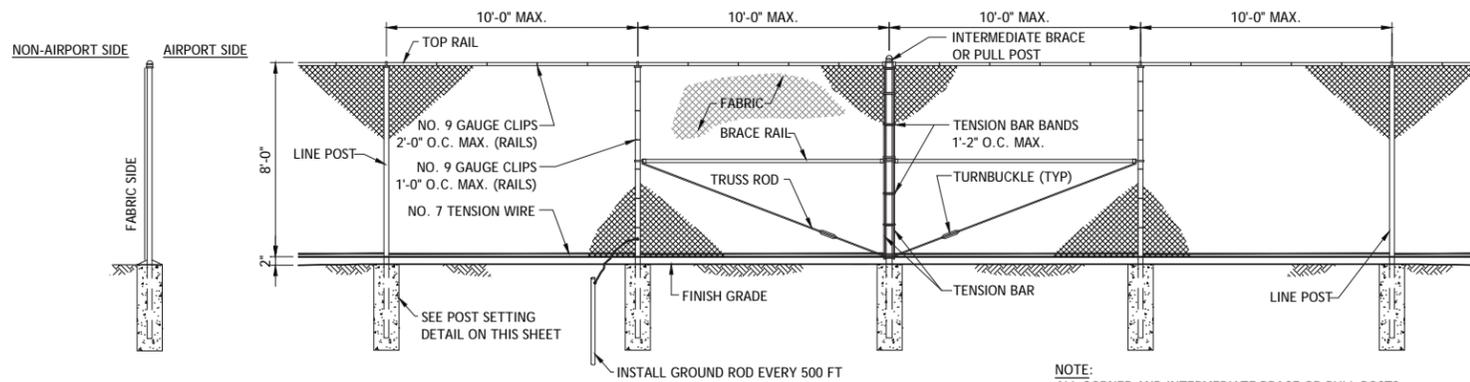
PROJECT	RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS
OWNER	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS

PROJECT NO.	103-036
CADD FILE	SHEET_EROS_DET
DESIGNED BY	CNM
DRAWN BY	CNM
CHECKED BY	CAS
DATE	JANUARY 2016
DRAWING SCALE	N.T.S.

SHEET TITLE	EROSION CONTROL DETAILS
GRAPHIC SCALE	NOT TO SCALE

DRAWING NO.	C3.1
7 OF 10	

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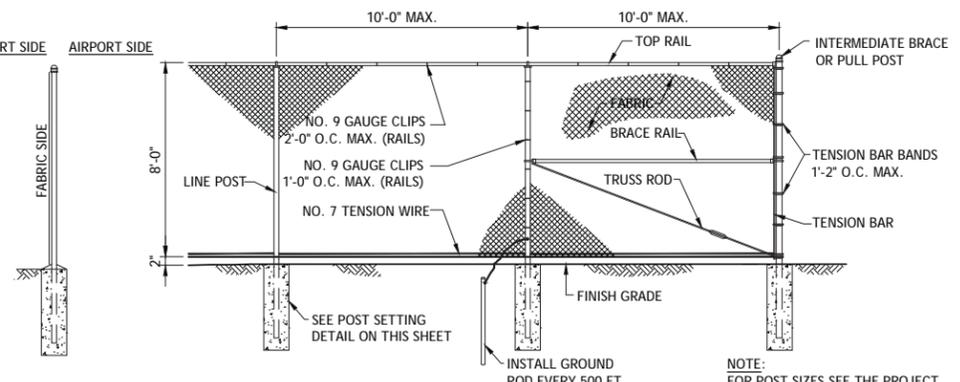


SECTION VIEW

ELEVATION VIEW

**PERIMETER FENCE AND INTERMEDIATE POST ASSEMBLY DETAIL**

SCALE: N.T.S.

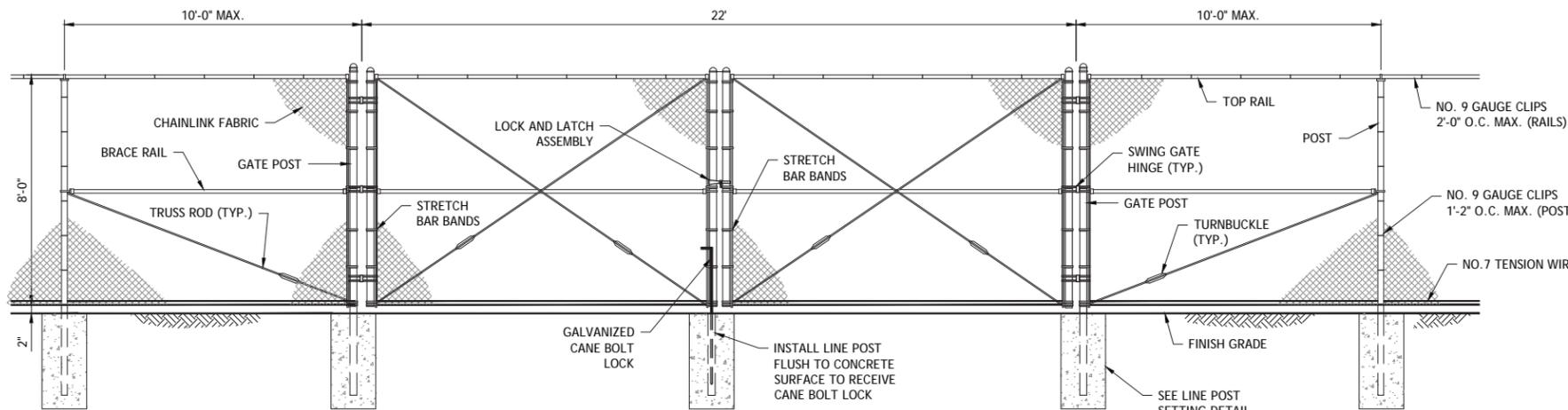


SECTION VIEW

ELEVATION VIEW

**CORNER AND TERMINAL POST ASSEMBLY DETAIL**

SCALE: N.T.S.

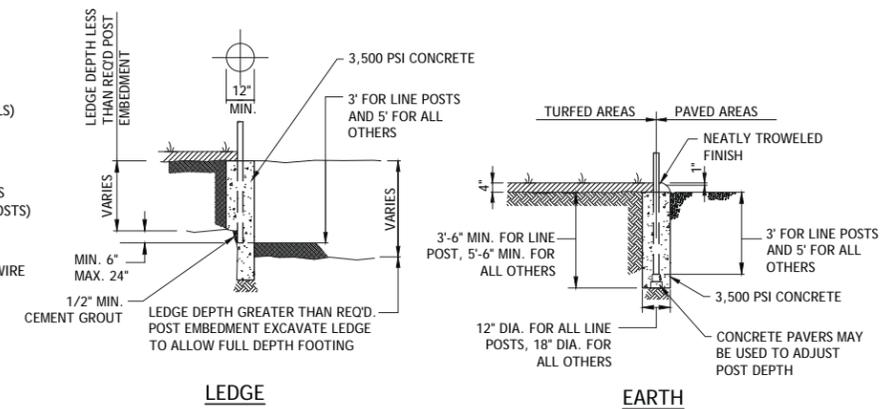


**NOTES:**

- GATE FRAME SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- FOR POST SIZES SEE ITEM F-162 "CHAIN-LINK FENCE".

**DOUBLE SWING GATE DETAIL**

SCALE: N.T.S.

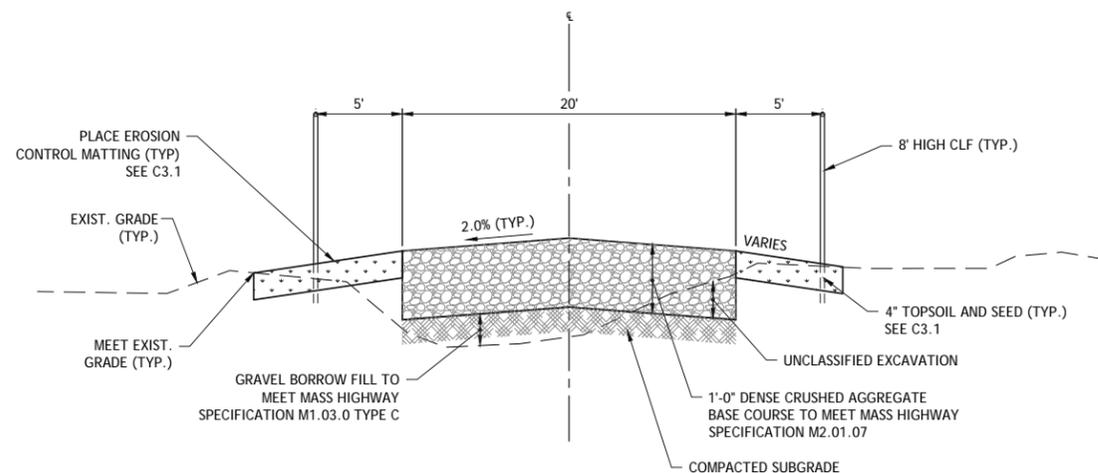


LEdge

EARTH

**POST SETTING DETAIL**

SCALE: N.T.S.

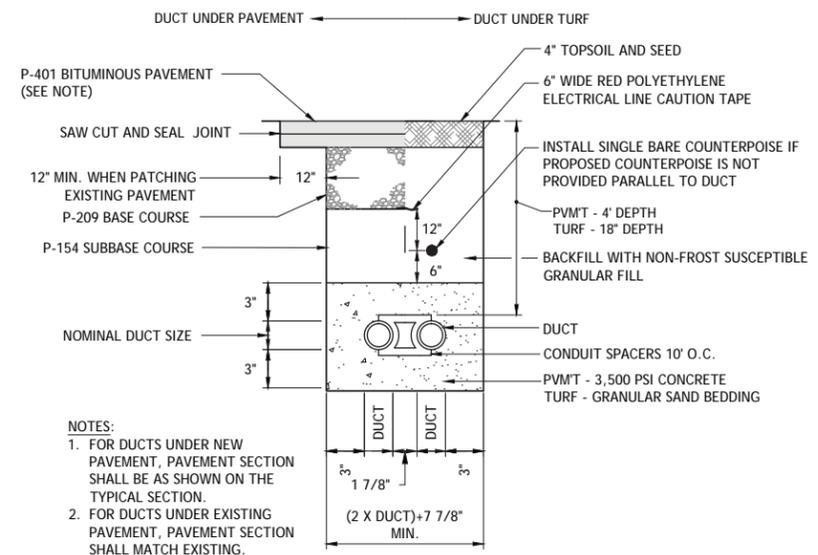


**NOTE:**

- PRIOR TO START OF CONSTRUCTION COMPOST FILTER SOCKS SHALL BE PLACED AS SHOWN ON THE PLANS.
- 15 FEET OFF OF NEW PLAINVILLE ROAD WILL BE PAVED WITH 4 INCHES OF BITUMINOUS ASPHALT PAVEMENT. SEE C1.1

**GRAVEL ACCESS ROAD TYPICAL SECTION**

SCALE: N.T.S.



**NOTES:**

- FOR DUCTS UNDER NEW PAVEMENT, PAVEMENT SECTION SHALL BE AS SHOWN ON THE TYPICAL SECTION.
- FOR DUCTS UNDER EXISTING PAVEMENT, PAVEMENT SECTION SHALL MATCH EXISTING.

**2-WAY ENCASED/UNENCASED DUCT BANK DETAIL**

SCALE: N.T.S.



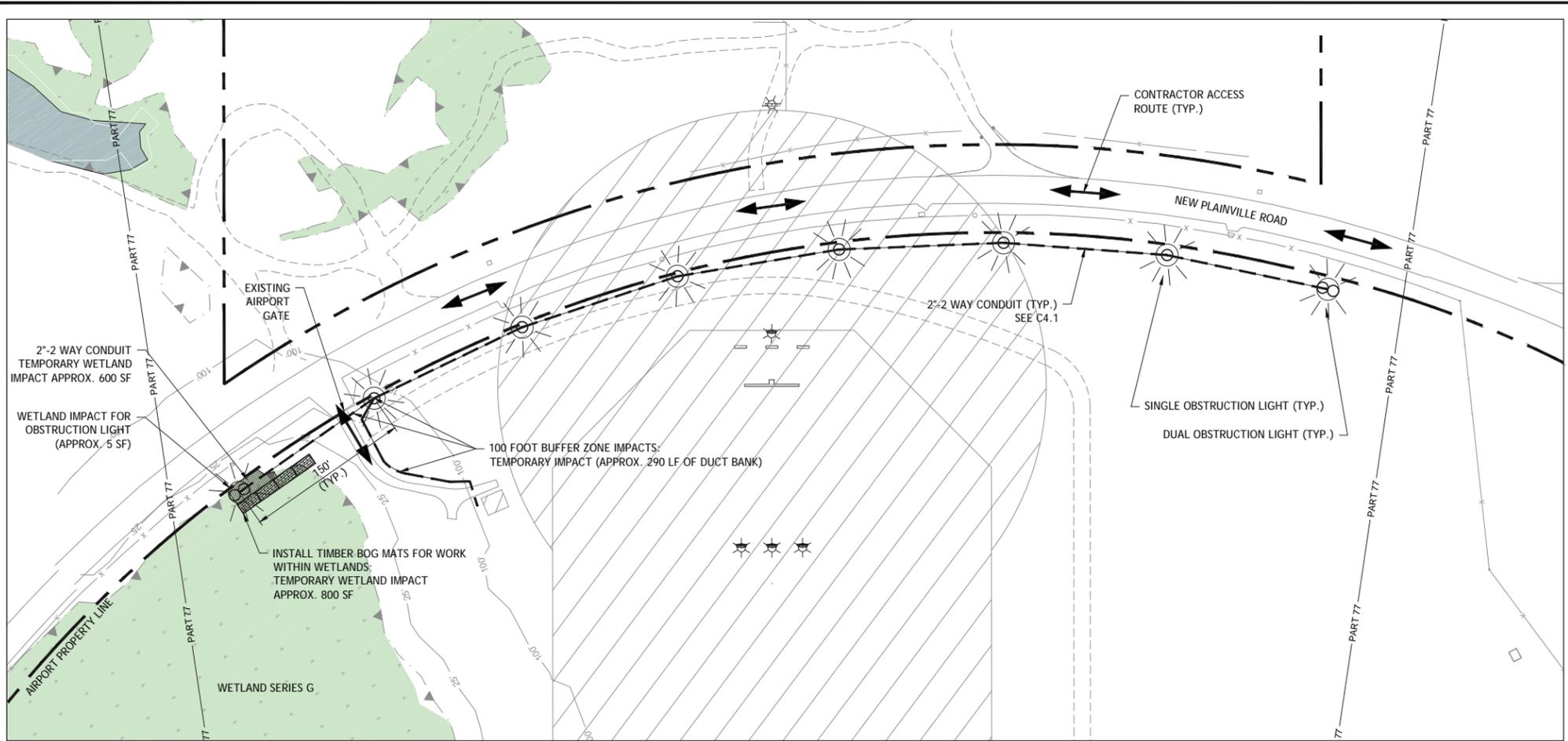
NO.	DATE	DESCRIPTION	BY

PROJECT	RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS
OWNER	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS

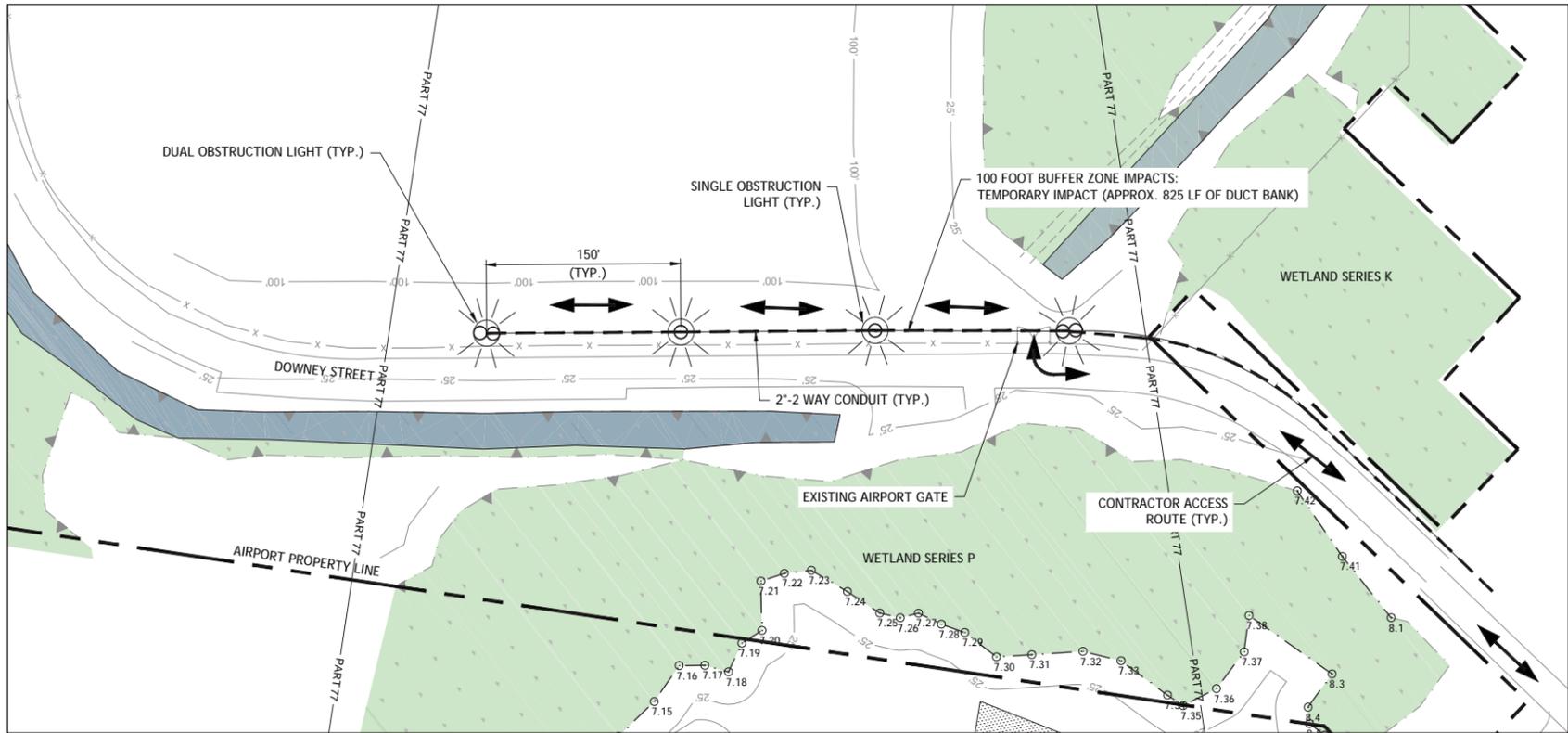
PROJECT NO.	103-036
CADD FILE	SHEET_FENCE_DET
DESIGNED BY	CNM
DRAWN BY	CNM
CHECKED BY	CAS
DATE	JANUARY 2016
DRAWING SCALE	N.T.S.

SHEET TITLE	MISCELLANEOUS DETAILS
DRAWING NO.	C4.1
GRAPHIC SCALE	NOT TO SCALE

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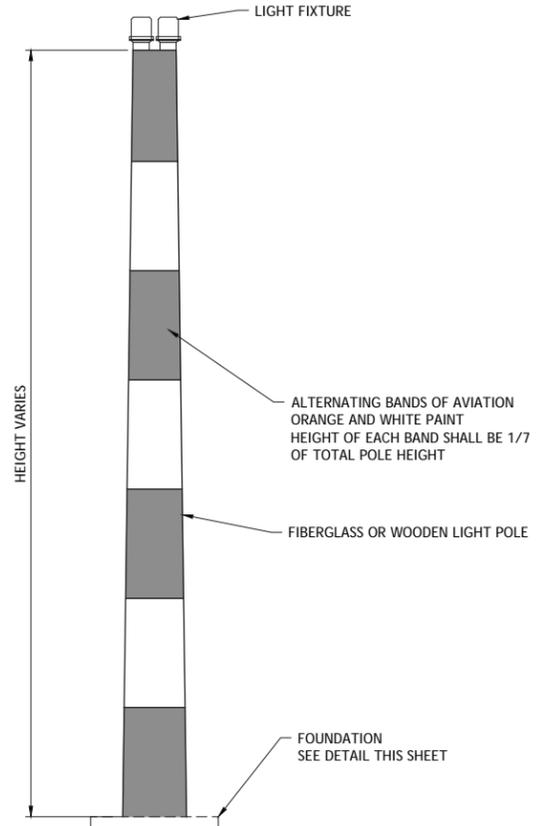


**OBSTRUCTION LIGHTS - RUNWAY 23**  
SCALE: 1" = 60'

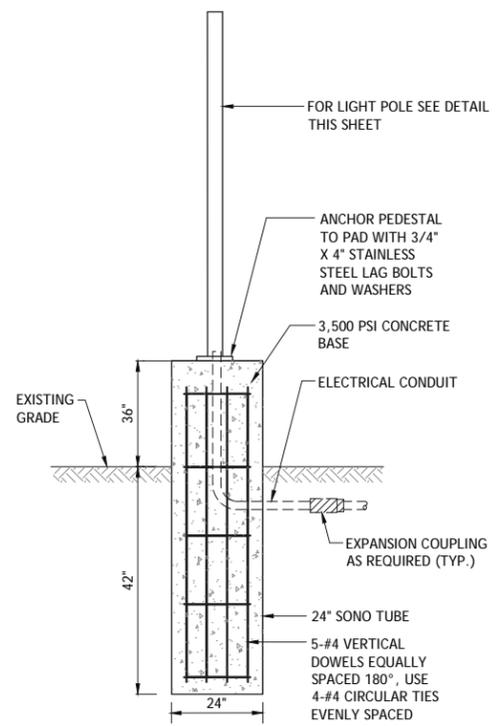


**OBSTRUCTION LIGHTS - RUNWAY 32**  
SCALE: 1" = 60'

- NOTES:**
- FOR OBSTRUCTION LIGHT LOCATION SEE G1.4.
  - 2"-2 WAY CONDUIT SHOWN FOR OBSTRUCTION LIGHT POWER. SOLAR POWER ALSO BEING PURSUED AS AN OPTION.



**OBSTRUCTION LIGHT DETAIL**  
SCALE: N.T.S.



**LIGHT FOUNDATION DETAIL**  
SCALE: N.T.S.

**AIRPORT SOLUTIONS GROUP**  
INNOVATIVE AIRPORT DEVELOPMENT SPECIALISTS

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NO.	DATE	DESCRIPTION	BY

PROJECT	OWNER
RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS

PROJECT NO.	103-036
CADD FILE	SHEET_LIGHTING
DESIGNED BY	CMM
DRAWN BY	CMM
CHECKED BY	CAS
DATE	JANUARY 2016
DRAWING SCALE	1" = 60'

SHEET TITLE

**OBSTRUCTION LIGHTING PLAN**

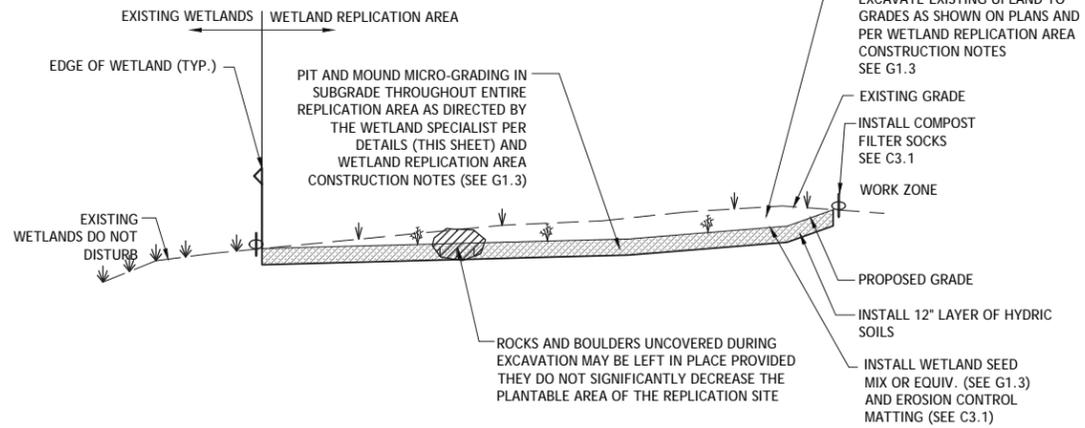
GRAPHIC SCALE

0 30 60 120

DRAWING NO.

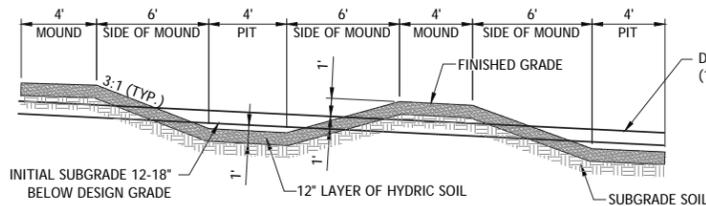
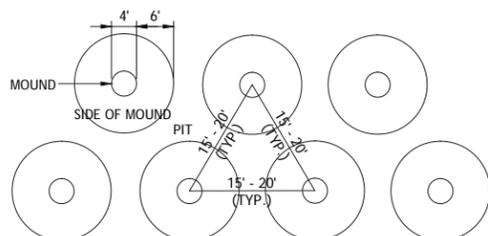
**L1.1**

9 OF 10



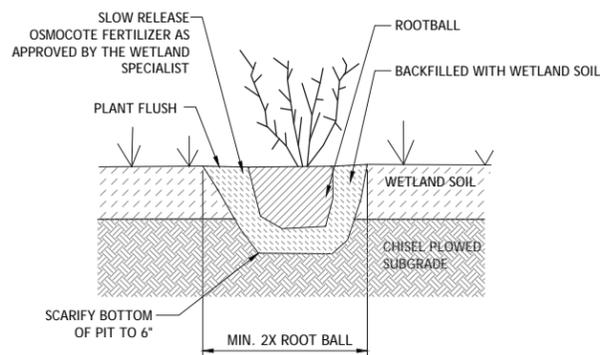
**WETLAND REPLICATION TYPICAL SECTION**

SCALE: N.T.S.



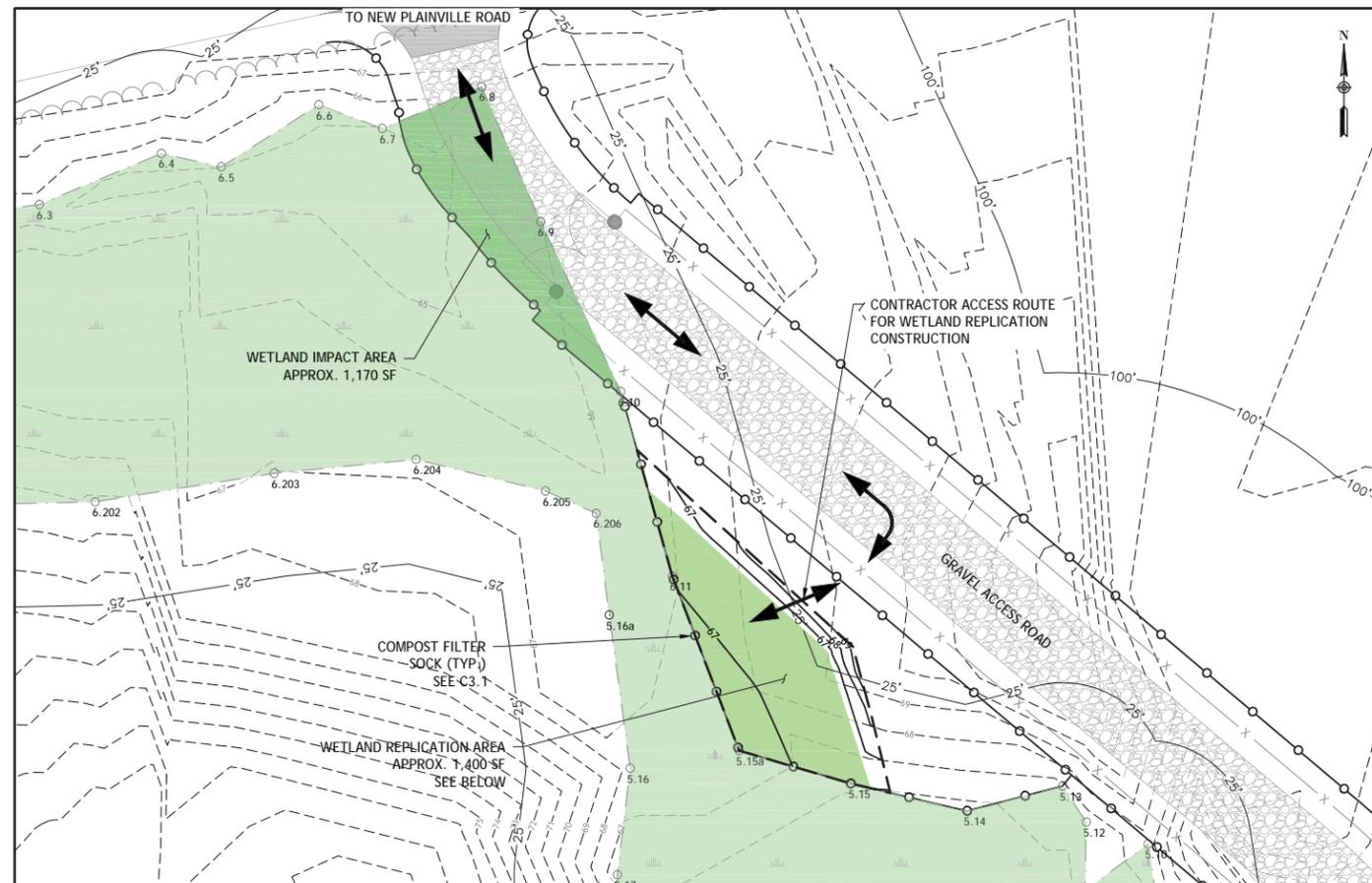
**PIT AND MOUND TOPOGRAPHY DETAIL**

SCALE: N.T.S.



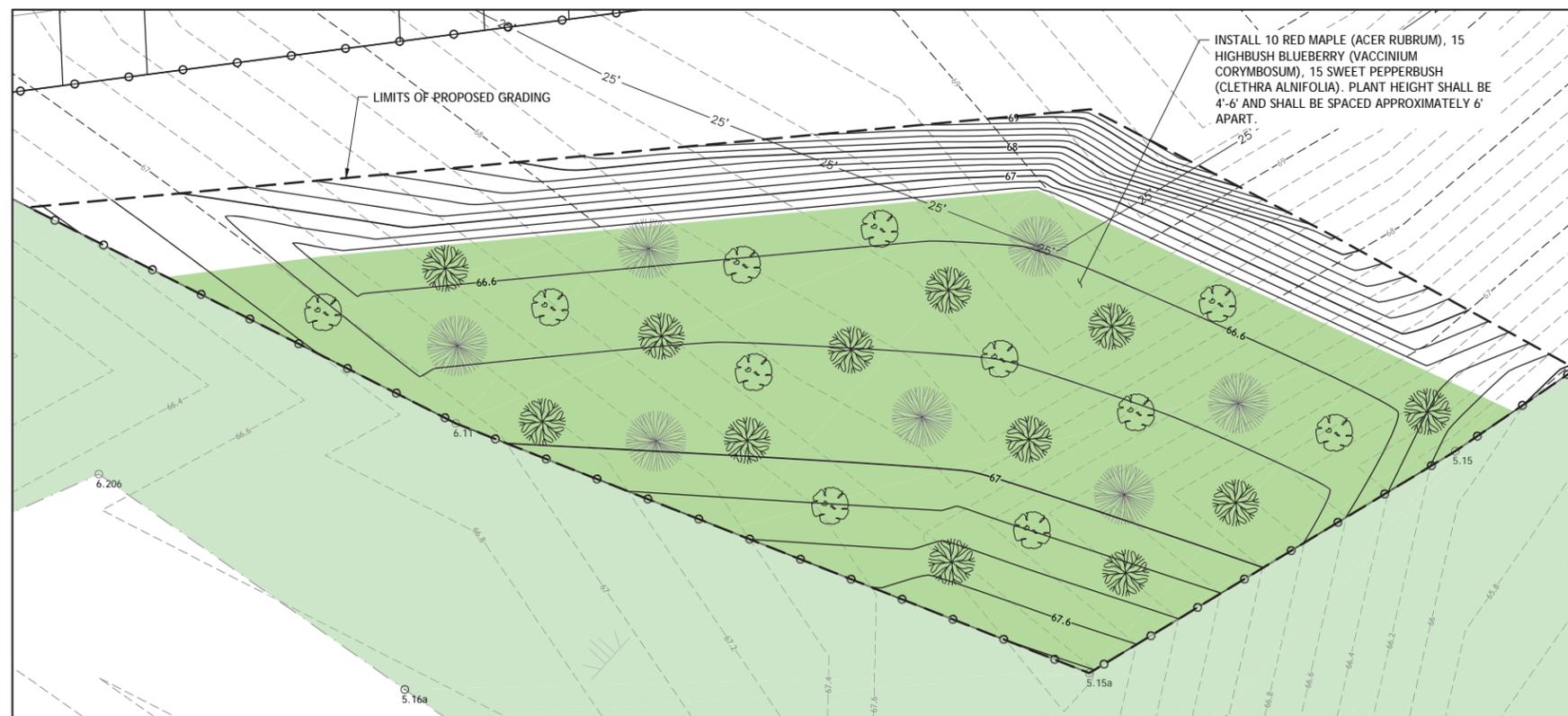
**SHRUB PLANTING DETAIL**

SCALE: N.T.S.



**WETLAND REPLICATION AREA/WETLAND IMPACT AREA**

SCALE: 1" = 20'



**WETLAND PLANTING PLAN**

SCALE: 1" = 5'



NO.	DATE	DESCRIPTION	BY

PROJECT	RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS
OWNER	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS

PROJECT NO.	103-036
CADD FILE	SHEET_WETLAND
DESIGNED BY	CNM
DRAWN BY	CNM
CHECKED BY	CAS
DATE	JANUARY 2016
DRAWING SCALE	AS SHOWN

SHEET TITLE	WETLAND REPLICATION PLAN
GRAPHIC SCALE	AS SHOWN

DRAWING NO.	W1.1
10 OF 10	

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**Attachment G**

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Wetland Replication Area and Supporting Documentation

# New Bedford Regional Airport Access Road Project Wetland Replication Plan



*Submitted to:*  
**New Bedford Conservation Commission**  
133 William Street, Room 304  
New Bedford, MA 02740

**MassDEP Southeast Regional Office**  
20 Riverside Drive  
Lakeville, Massachusetts 02347

*Prepared for:*  
**New Bedford Regional Airport Commission**  
1569 Airport Road  
New Bedford, MA 02746

*Submitted by:*  
**Epsilon Associates, Inc.**  
3 Clock Tower Place, Suite 250  
Maynard, MA 01754

December 23, 2015

**Epsilon**  
ASSOCIATES INC.

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## ATTACHMENT A - FIGURES

## ATTACHMENT B - SITE PHOTOGRAPHS

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# WETLAND REPLICATION PLAN

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## 1.0 Overview

This Bordering Vegetated Wetland (“BVW”) replication plan has been prepared for the New Bedford Regional Airport in support of its Notice of Intent (“NOI”) filing with the New Bedford Conservation Commission. The NOI describes activities in jurisdictional wetland resource areas and the 100-foot buffer zone associated with construction of a proposed gravel access road and obstruction lighting. For more information regarding the proposed project and compliance with the Massachusetts Wetland Protection Act (MGL c.131 s.40) and implementing Regulations (310 CMR 10.00) (the "Act") and the City of New Bedford Wetlands Ordinance (Amending Chapter 17, Section 17-18) refer to the NOI filing.

The Project will result in the loss of approximately 1,175 square feet (s.f.) of permanent BVW impacts from filling associated with the construction of a proposed gravel access road and one obstruction light tower. Impacts to BVW have been avoided and minimized to the greatest extent practicable. Approximately 1,400 s.f. of BVW replication area will be provided as mitigation for unavoidable impacts to the BVW (approximately 20 percent greater mitigation to impact area).

The BVW replication area described in this report has been designed in accordance with the Act (310 CMR 10.55(4)(b)) and the Massachusetts Department of Environmental Protection’s (“MassDEP”) “Massachusetts Inland Wetland Replication Guidelines” (MassDEP, March 2002). More specifically, the BVW replication area has been designed to function in a manner similar to the BVW that will be lost with regard to surface area, groundwater and surface elevations, hydrology, and wetland plant species and soil types. The wetland replication plan also incorporates important wildlife habitat features into the design including burrowable soils for small mammals, dense herbaceous cover, and microtopographic grading features (engineered hummocks and round grading, pit and mound).

Additional information regarding the proposed wetland replication area is provided in the following sections. Refer to the NOI Permit Drawings for additional detail.

## 2.0 Existing Conditions

### 2.1 *BVW Impact Site*

The location of the BVW impact site and overall project is depicted on Figures 1 and 2 in Attachment A; site photographs are provided in Attachment B. The BVW impact site is characterized as a Palustrine, forested<sup>1</sup> wetland. As described within the NOI filing, the BVW impact area is at the eastern terminus of a bottomland wetland draw connected to

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<sup>1</sup> Cowardin, L. et al. (1979). Classification of Wetlands and Deepwater Habitats of the United States, United States Fish and Wildlife Service, Biological Services Program, Washington, D.C., FWS/OBS-79/31.

wetlands on the north side of New Plainville Road by a culvert. The BVW is part of a larger BVW complex located to the west and north, across New Plainville Road. The BVW is comprised primarily of red maple (*Acer rubrum*), white pine (*Pinus strobus*), swamp white oak (*Quercus bicolor*), highbush blueberry (*Vaccinium corymbosum*), maleberry (*Lyonia ligustrina*), sweet pepperbush (*Clethra alnifolia*) with cinnamon fern (*Osmunda cinnamomea*), sensitive fern (*Onoclea sensibilis*), greenbriar (*Smilax rotundifolia*) and poison ivy (*Toxicodendron radicans*) in the understory. Topography is relatively flat with elevations ranging from 65 feet NAVD 88 to 68 feet NAVD 88. The impact area was saturated to the surface during the October 28, 2015 field investigation and the water table was evident at approximately one foot. It is likely that this wetland is predominantly groundwater driven, but has a surface water runoff source due to its proximity to New Plainville Road. The wetland also displayed evidence of long term ponding including hummocks with sphagnum moss and elevated roots, either due to ponding or erosion. No invasive species were observed within or immediately adjacent to the impact site. The BVW was impacted by trash and debris from the roadway, also due to the proximity to New Plainville Road.

According to the Natural Resource Conservation Service (“NRCS”) Soil Survey for Bristol County, Northern Part and the NRCS Web Soil Survey, soils in the vicinity of the BVW impact site are mapped as Swansea muck, 0 to 3 percent slopes.

- ◆ Swansea muck: This soil is generally very poorly drained organic soil typically found in depressions or on flat level areas on uplands and outwash plains. The soil is typically 16 to 52 inches of organic muck over sandy material.

Soils within the BVW impact site have an organic topsoil, with almost seven inches of muck, underlain by a hydric subsoil. The soils are very poorly drained but do not conform to the mapped soil type since they are not histosols. Histosols must have 16 or more inches of muck to conform to the taxonomic definition, while histic epipedons must have 8 or more inches of muck. The BVW impact site soils contained, at most, 7 inches of muck organic material, so this soil has less than the required depth to conform to the mapped soil. A complete soil description is provided on Table 2-1 below.

**Table 2-1 Typical Soil Profile Description at BVW Impact Site**

Depth (inches)	Matrix Color	Soil Texture	Redoximorphic Features/Remarks
Oa1: 0-3	Very dark brown (10YR 2/2)	Muck	None, dark color derived from organic material.
Oa2: 3-7	Black (10YR 2/1)	Muck	None, dark color derived from organic material.
Ag1: 7-16	Dark gray (10YR 4/1)	Gravelly fine loamy sand	10% Light brownish gray (10YR 6/2) distinct soft mass and 1% very dark brown (7.5YR 2.5/2) prominent pore lining redox concentrations, some black muck mixing along root channels
Ag2: 16-24	Dark gray (10YR 4/1)	Gravelly fine loamy sand	10% Gray (10YR 6/1) distinct soft mass redox depletions

The soil is indicative of seasonal saturation or inundation and meets the U.S. Army Corps of Engineers Regional Supplement, national hydric soil indicator S1 and S5<sup>2</sup>. The impact site is seasonally saturated to intermittently ponded.

## **2.2 BVW Replication Site**

The proposed location of the BVW replication site and the roadway is depicted on Figures 1 and 2 in Attachment A; representative site photographs are provided in Attachment B. The proposed grading and planting plan and construction protocol is provided on the Wetland Replication Site Plans, Sheets W1.1 (A and B) and G1.3 of the NOI Permit Drawings prepared by Airport Solutions Group (excerpted, provided in Attachment A).

It is important to note that the initial wetland replication area was located west of the wetland swale that connects wetland series 5 and 6. Initial plans incorporated a gentler slope, however temporary impacts to the wetland swale were necessary in order to access the proposed wetland replication area. Additionally, based on slopes and forest cover, it is not feasible to create a construction haul road to avoid temporary wetland impacts in order to access the initial proposed wetland replication area. As a result, the Airport selected an equally suitable area east of the swale. While the swale is somewhat drier than the proposed impact area, the replication area will be constructed with elevations more in line

<sup>2</sup> Field Indicators of Hydric Soils in the United States. Version 7. LM Vasilas, GW Hurt, and CV Noble (Eds). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

with the proposed impact area. The current proposed replication site seems very similar to the initial proposed area, however Epsilon has not conducted confirmatory soil sampling to determine soil and groundwater features. Epsilon will conduct confirmatory soil sampling prior to construction of the gravel access road and wetland replication area. The forested area east of the swale contains less mature trees and is more disturbed by rubbish than the initial proposed replication area. The results of the initial BVW replication area survey are presented below.

Both BVW replication sites are located in a forested upland and located immediately adjacent to the wetland containing the BVW impact site, on the southern side and away from New Plainville Road. The replication area, immediately upslope of the wetland contains a mix of upland and wetland plant species including white pine, red maple, white oak (*Quercus alba*), partridgeberry (*Mitchella repens*), greenbriar, and false solomons seal (*Mainanthemum racemosum*). Forested cover within the initial replication site includes up to approximately eight to ten white pines of various sizes (2 to 12 inch diameter at breast height ("dbh")), three red maples (~6"dbh, 8"dbh and 15"dbh) and two white oaks (*Quercus alba*) (~8"dbh). No large trees were observed within the current proposed replication area. No invasive species were observed within the replication site.

The existing topography of the replication site is gradually sloped toward the wetland system with elevations ranging from 67 feet to 69 feet NAVD 88 over a distance of approximately 10 feet (an approximately 2% to 10% slope from the limit of the replication site boundary to the adjacent BVW).

According to the NRCS Soil Survey soils, soils within the BVW replication area are also mapped as Swansea muck. Soils within the replication area are not histosols or have a thick organic surface horizon indicative of ponding conditions. Instead the soil indicated podsolization or spodic properties. A complete soil description is provided on Table 2-2 below.

**Table 2-2 Soil Profile Description at BVW Replication Site (Initial Area)**

Depth (inches)	Matrix Color	Soil Texture	Redoximorphic Features/Remarks
Oi: 3-0	Very dark brown (7.5YR 2.5/2)	Peat	None, dark color derived from organic material. Typical of partially decomposed forest duff.
A: 0-2	Black (10YR 2/1)	Fine loamy sand	None, dark color derived from organic material.
E: 2-5	Grayish brown (10YR 5/2)	Fine loamy sand	None, light color due to eluviation or stripping
Bhs1: 5-8	Dark brown (7.5YR 3/2)	Fine loamy sand	None, dark color due to accumulation of organics and sesquioxides
Bhs2: 8-11	Dark brown (7.5YR 3/4)	Fine loamy sand	None, dark color due to accumulation of organics and sesquioxides
C1: 11-13	Strong brown (7.5YR 5/6)	Fine loamy sand	Sandy parent material
C2: 13-18	Brownish yellow (10YR 6/6)	Fine loamy sand	8% strong brown (7.5YR 5/6) redox concentrations ** likely correlated to the seasonal high groundwater table

Soil test pit for the initial replication area was conducted by a certified professional soil scientist from Epsilon Associates, Inc. within the proposed BVW replication area on October 27, 2015. The purpose of the test pits was to gain an understanding of subsurface hydrologic conditions and redoximorphic features in the soil profile. The depth and duration of a water table can generally be correlated to the location and abundance of redoximorphic features<sup>3</sup> in the soil profile. Since soil testing took place outside the active growing season for leafy vegetation (typically March 15 – October 15), direct evidence of saturation or free water was treated as ancillary information.

The soil within the replication area is spodic or has spodic properties; typically spodic horizons are created when precipitation leaches into the soil horizon that is impacted by the increase acidity of the organic layers caused from a strongly coniferous overstory.

<sup>3</sup> Redoximorphic features means, in part, features associated with wetness formed by the processes of reduction, translocation, and/or oxidation of iron (Fe) and manganese (Mn) oxides. Formerly called soil mottling and low chroma colors (Field Indicators for Identifying Hydric Soils in New England, Version III, April 2004).

Water strips organics into the subsurface and to deeper in the soil horizon. The organic coloring leached out at approximately five inches, this is likely due to weak acid binding and not evidence of a high water table. It is likely that the seasonal high ground water table is correlated to the faint redoximorphic features observed at 13 inches. It is likely that more concentrations and reductions are located slightly deeper than 18 inches, where potentially the long term groundwater table is observed.

Highest groundwater levels and water table fluctuations are routinely estimated by soil scientists from a soil's morphology, mainly the soil color. The depth and duration of a water table can generally be correlated to the location and abundance of redoximorphic features in the soil profile. It is likely that the shallowest appearance of redoximorphic features (especially bright ferrous iron concentrations) are more strongly correlated to capillary fringe or rise of groundwater in the soil rather than water table height; generally we identified this area as the seasonal high groundwater level. This area may correlate to saturated zones, capillary fringe, or flashy water table saturation. It is important to note that capillary fringe in sands is minimal, accounting for anywhere between one and five inches of rise depending on the grain size, the density of the soil material, and method of geologic placement. Estimated seasonal high groundwater is correlated with the saturated zone.

Soils located within the replication area do not conform to the NRCS mapped soils; there is no organic horizon and the parent material is indicative of sandy glaciofluvial deposits.

As noted above, Epsilon will conduct confirmatory soil sampling of the proposed replication area prior to construction of the gravel access road and wetland replication area.

There is a moderate difference in relief elevation between the replication site and the adjoining wetland. Elevations in the adjoining wetland range from a low point of approximately 65 feet NAVD 88 to a high point of approximately 70 feet NAVD 88. Elevations of the proposed replication site range from a low point of approximately 66 feet NAVD 88 to a high point of approximately 69 feet NAVD 88. The depth to seasonal high groundwater within the initial replication area is estimated to be at approximately 66 feet NAVD 88. It is assumed that groundwater elevations within the proposed replication area are also at approximately 66 feet NAVD 88, but confirmatory sampling will occur prior to construction. Accordingly, to achieve the desired hydrology, the replication area should be excavated and graded to a maximum depth of approximately 12 inches below the proposed final contours shown on the site plans (resulting in a cut that ranges from 1 to 3 feet). The final elevation of the replication area should be approximately 67-feet NAVD 88 with slightly deeper pits and higher mounds located throughout.

## 3.0 BVW Replication Plan

### 3.1 *Overview*

As noted above, the proposed BVW replication area has been designed in accordance with 310 CMR 10.55(4)(b), MassDEP's "Massachusetts Inland Wetland Replication Guidelines". The BVW replication area has been designed to function in a manner similar to the BVW that will be lost with regard to surface area, groundwater and surface elevations, hydrology, wetland plant species, and soil types. The wetland replication plan also incorporates important wildlife habitat features into the design including burrowable soils for small mammals, dense herbaceous cover, and microtopographic grading features (engineered hummocks and round grading, pit and mound). Approximately 1,400 s.f. of Palustrine, scrub-shrub wetland will be constructed adjacent to and hydrologically connected with wetland flags 5-14 to 6-10. Refer to the Wetland Replication Site Plans included in the NOI Permit Drawings (Sheets W1.1 B and G1.3) (excerpted, provided in Attachment A).

#### 3.1.1 Hydrology and Topography

Converting an upland habitat to a wetland habitat requires a steady and reliable groundwater source, establishment of a hydrological connection to a surface water source of sufficient volume and duration to sustain wetland habitat throughout the year, or both. In this instance, by sharing the local hydrology and by approximating the elevations of adjacent wetlands, the replication area should have sufficient hydrology to support wetland plant communities. The primary hydrologic input in the wetland replication area will be derived from a combination of groundwater and precipitation sources. The proposed grading scheme of the replication area generally coincides with existing wetland elevations and confirmatory soil sampling will occur prior to construction to determine seasonal groundwater indicators within the soil (see Sheet W1.1 B).

#### 3.1.2 Soils

After subgrades have been established and verified by project surveyors and microtopographic work is complete, approximately 12 inches of an evenly mixed organic/mineral soil will be placed within the replication area bringing grades to the final desired elevations.

If feasible, during construction the site contractor may translocate suitable hydric soils from the BVW impact site to the replication site. However, since the replication site exceeds the proposed impact area by 20 percent, soil amendments from off-site sources will be necessary. To bring the wetland replication area to the proposed finished grade, additional manufactured hydric soils will be incorporated into the relocated on-site hydric soils. The hydric soil will be made by mixing plantable soil borrow or other clean mineral soil with clean leaf compost in an approximately 80:20 mixture. The soil mixture will be mixed and confirmed via laboratory analysis before placement. Mineral soil consistency should be

loose to friable and texture should be sandy loam<sup>4</sup>. The amended organic material used should be well or partially decomposed. Clean leaf compost is the preferred soil amendment to achieve these standards. A minimum organic carbon content of 12% (21 percent organic matter) on a dry weight basis for soils should be used in the wetland replication area. Should the contractor elect not to use soil from the BVW impact site, the manufactured off-site soil shall meet the above specifications for texture and organic amendments.

Alternatively, soil should be amended with on-site sandy material, perhaps stockpiled from the upper horizons within the proposed replication area that is free of invasive plant species. Given that no invasive plants are currently present within the upland area, the soils within the upland should not provide a seed bank for invasive species. There should be no adverse effect for using the on-site soils with amendments from a certified source.

Care should be taken during placement of soils in the replication area to avoid compaction. Should soils be compacted, they will be loosened by a method such as rototilling. Avoidance of compaction will allow the soils to serve as a suitable substrate for burrowing habitat for small mammals. The replication area should have shallow pit and mound topographic grading to mimic the adjacent wetlands. No areas of open water will be established since no open water areas are present in the impacted area and, more importantly, to avoid attracting waterfowl, an aviation wildlife hazard.

### 3.1.3 Vegetation

A scrub/shrub vegetation cover type will be created within the proposed replication area. The proposed plantings will consist of ten (10) red maple saplings, 15 sweet pepperbush shrubs and 15 highbush blueberry shrubs. They will be planted in random locations and densities throughout the replication area to blend with the vegetation composition of the surrounding existing wetland and to mimic conditions at the impact site. Plantings should be located at the direction of the supervising wetland scientist to simulate natural growth patterns. Shrubs and saplings will be a minimum of four to six feet in height. The plant material will either be bare-root or container grown. Only plant materials native and indigenous to the region will be used. The entire replication area will be sown with a wetland seed mix<sup>5</sup> and covered with a light mulch of straw if planted during summer months. Approximately one pound of New England Wetmix™ (or equivalent) will be

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<sup>4</sup> As defined by USDA Textural Soil Classification System or SSSA Glossary of Soil Science Terms.

<sup>5</sup> Wetland Seed Mix (Typ./or equivalent) – Fringed sedge (*Carex crinita*), American mannagrass (*Glyceria grandis*), blue vervain (*Verbena hastata*), woolgrass (*Scirpus cyperinus*), lurid sedge (*Carex lurida*), soft rush (*Juncus effusus*), spotted joe pye weed (*Eupatorium maculatum*), green bulrush (*Scirpus atrovirens*), boneset (*Eupatorium perfoliatum*), blunt broom sedge (*Carex scoparia*), fox sedge (*Carex vulpinoidea*), sensitive fern (*Onoclea sensibilis*), hop sedge (*Carex lupulina*), nodding bur marigold (*Bidens cer-nua*), bristly sedge (*Carex comosa*), mud plantain (*Alisma subcordatum*), New England aster (*Aster novae-angliae*), rattlesnake grass (*Glyceria canadensis*), soft stem bulrush (*Scirpus validus*), swamp milkweed (*Asclepias incarnata*), and monkey flower (*Mimulus ringens*) (Application Rate = 1 lb/ 2,500 s.f.).

utilized. New England Wetmix™ contains a variety of native seeds which are suitable for most wetland restoration sites not permanently inundated and are species typically found in wet meadow communities.

### **3.2 *Wetland Replication Area Construction Sequence***

Construction of the replication area, including fine grading, soils placement, and planting, shall be done under the supervision of a qualified wetland scientist. The wetland scientist shall be on site to monitor construction of the wetland mitigation area during all phases to ensure compliance with the mitigation plan and to make adjustments when needed to meet mitigation goals. Unless otherwise modified by the Order of Conditions, the detailed construction sequence and monitoring protocol provided on the enclosed wetland replication permit drawings shall control (see Sheets W1.1 B and G1.3).

Within 30 days following construction of the replication area, the supervising wetland scientist will submit a letter report to the Conservation Commission confirming that the area has been constructed in substantial compliance with the Order of Conditions and the record drawings. The report will include representative site photographs depicting each phase of replication area construction, relevant field notes and inspection reports, a discussion of hydrologic conditions, soil laboratory analysis, number and types of plants (or seed) installed in the replication area and receipts from the plant nursery, and a discussion of any field modifications deemed necessary by the wetland scientist to obtain the desired hydrology that is necessary to support the development of scrub/shrub environment.

The letter report will be accompanied by an “as-built” plan signed and stamped by a Registered Professional Land Surveyor of the Commonwealth of Massachusetts depicting the limits of the replication area and final grades.

### **3.3 *Post-Construction Monitoring Plan***

It is the goal of this wetland replication plan to have at least 75 percent of the surface of the replacement area established with indigenous herbaceous wetland plant species within two growing seasons. This is consistent with the BVW General Performance Standards at 310 CMR 10.55(4). To document compliance with the performance standards a qualified wetland scientist will inspect the wetland replication area following construction for two complete growing seasons. A report will be provided to the Commission describing the condition of the replication area relative to the Standards. The reports will contain information similar to that which was provided for the initial 30 day report following construction along with any necessary recommendations regarding the need for remedial measures to ensure compliance with permit conditions and the Wetlands Protection Act regulations. Vegetation cover percentages will be determined during each monitoring event. These visual estimates will encompass the total percent cover for the mitigation area and the percent cover of invasive plant species if present. Any recommended remedial

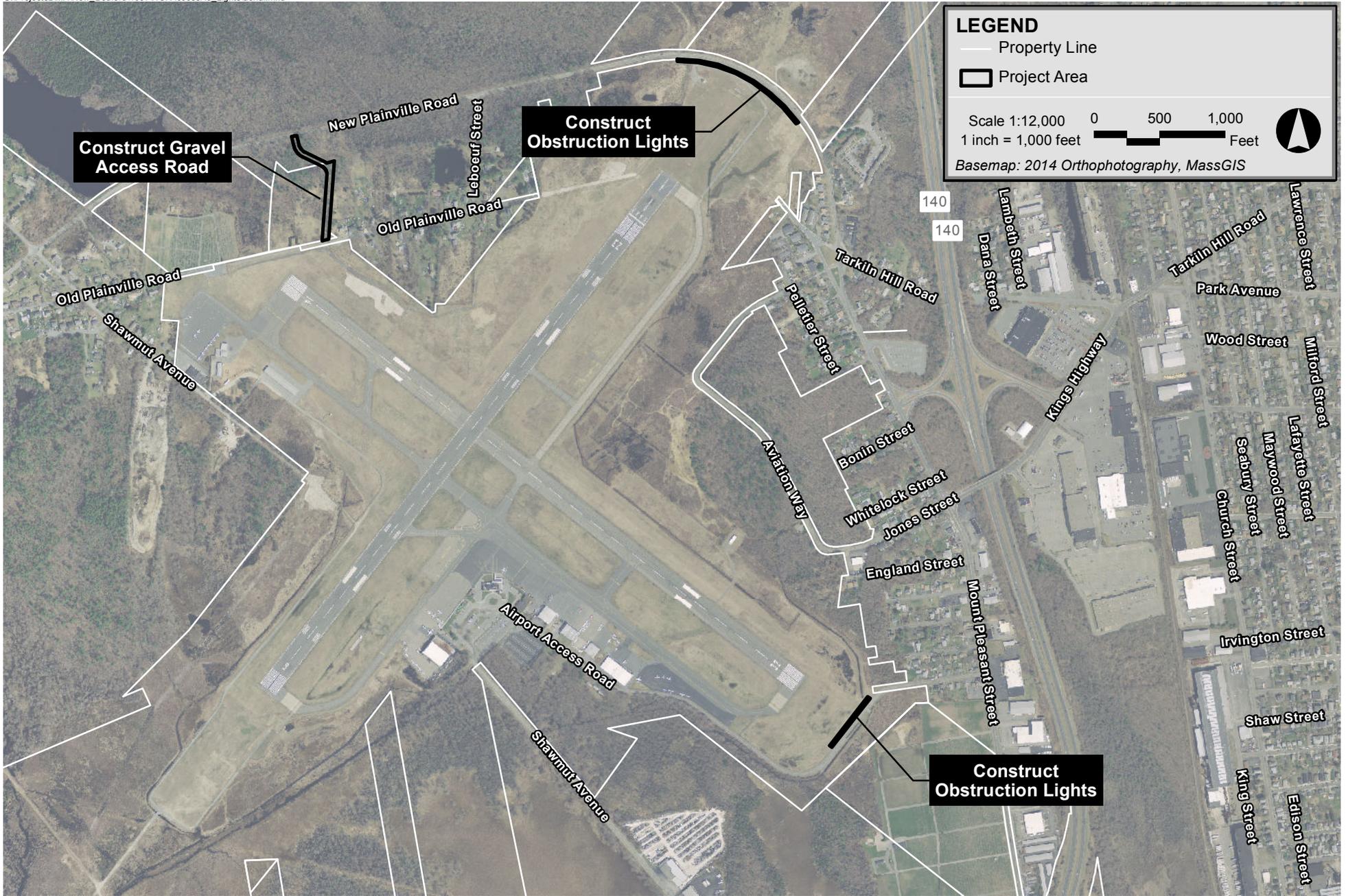
actions to remove or otherwise limit the spread of significant colonization of invasive plant species will be noted in the monitoring reports.

Attachment A

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Figures



New Bedford Regional Airport, Construct Gravel Access Road and Obstruction Lights



New Bedford Regional Airport, Construct Gravel Access Road and Obstruction Lights

**WETLAND REPLICATION AREA CONSTRUCTION NOTES:**

- CONSTRUCTION OF THE WETLAND REPLICATION AREA SHALL OCCUR UNDER THE DIRECT SUPERVISION OF AN EXPERIENCED AND QUALIFIED WETLAND SCIENTIST (THE "WETLAND SPECIALIST" OR "WS"). AS MAY BE NECESSARY, THE WS HAS THE AUTHORITY TO REQUIRE FIELD ADJUSTMENTS DURING CONSTRUCTION OF THE WETLAND REPLICATION AREA IN ORDER TO MEET MITIGATION GOALS THAT SUPPORT THE DEVELOPMENT OF AN EMERGENT MARSH / WET MEADOW HABITAT. FIELD ADJUSTMENTS MAY INCLUDE BUT ARE NOT NECESSARILY LIMITED TO MODIFICATIONS TO SUB-GRADES, FINAL GRADES, HYDROLOGIC INPUTS, MICRO-TOPOGRAPHY, EROSION CONTROLS, AND OTHER HABITAT FEATURES, AND PLANTINGS (SPECIES AND PLACEMENT) BASED ON SITE SPECIFIC CONDITIONS AT THE TIME OF CONSTRUCTION.
- PROJECT SURVEYORS WORKING FOR THE SITE CONTRACTOR SHALL RE-ESTABLISH AND RE-LABEL WETLAND FLAGS AS PER PERMIT DRAWINGS USING WOODEN STAKES INSTALLED AROUND THE PERIMETER OF THE WETLAND REPLICATION AREA. PROJECT SURVEYORS SHALL ALSO STAKE OUT THE LIMITS OF THE PROPOSED WETLAND REPLICATION AREA AND TEMPORARY CONSTRUCTION ACCESS ROADS. THE STAKES SHALL REMAIN IN PLACE UNTIL WETLAND VEGETATION HAS BECOME FULLY ESTABLISHED. THIS WORK SHALL OCCUR BEFORE CONSTRUCTION OF THE REPLICATION AREA COMMENCES.
- PRIOR TO COMMENCING GRADING AND CLEARING WORK, A ROW OF COMPOST FILTER SOCKS SHALL BE INSTALLED INSIDE THE WETLAND LINE IMMEDIATELY ADJACENT TO THE INTERFACE BETWEEN THE EXISTING WETLAND AND PROPOSED REPLICATION SITE. INSTALLING THE FILTER SOCKS IN THIS MANNER WILL ENABLE THE SITE CONTRACTOR TO PROPERLY "TIE IN" THE PROPOSED CONTOURS WITH THE EXISTING CONTOURS IN THE ADJACENT BVW AND AVOIDS THE CREATION OF A BERM. THE INTERFACE / TIE-IN BETWEEN THE REPLICATION AREA AND ADJACENT WETLAND SHALL BE NATURAL USING GENTLE SLOPES.
- THE SITE CONTRACTOR SHALL PROVIDE THE CONSERVATION COMMISSION OR ITS DESIGNATED AGENT WITH A MINIMUM OF FIVE (5) CALENDAR DAYS ADVANCE WRITTEN NOTICE (VIA EMAIL) TO PROVIDE AN OPPORTUNITY FOR INSPECTIONS DURING EACH OF THE FOLLOWING REPLICATION AREA CONSTRUCTION MILESTONES: (1) PRIOR TO COMMENCEMENT OF EXCAVATION; (2) WHEN THE REPLICATION AREA HAS BEEN EXCAVATED TO SUB-GRADE WITH MICRO-TOPOGRAPHIC FEATURES INCORPORATED; (3) WHEN THE REPLICATION AREA HAS BEEN GRADED TO FINAL ELEVATIONS; AND (4) DURING SEEDING/PLANTING.
- THE REPLICATION AREA SHALL BE GRUBBED AND INITIALLY EXCAVATED TO A DEPTH APPROXIMATELY 12-INCHES BELOW THE FINAL DESIGN GRADE ELEVATIONS DEPICTED ON THE REFERENCED DRAWINGS TO ALLOW FOR PLACEMENT OF WETLAND TOPSOIL AND CONSTRUCTION OF MICRO-TOPOGRAPHY. IN RESPONSE TO SUBSURFACE HYDROLOGIC CONDITIONS AT THE TIME OF CONSTRUCTION, THE SUPERVISING WS HAS THE AUTHORITY TO MODIFY THE GRADING PLAN IN THE FIELD. MICRO-TOPOGRAPHY ("PITS AND MOUNDS", SEE W1.1) SHALL THEN BE ESTABLISHED THROUGHOUT THE SUB-GRADE USING CONTINUOUS ROUGH GRADING. THE MICRO-TOPOGRAPHY WORK SHALL ALSO OCCUR UNDER THE DIRECT SUPERVISION OF THE WS. THE TROUGH OF A DEPRESSION/PIT SHALL BE CONTINUOUS WITH THE CREST OF A MOUND, WHICH SHALL BE CONTINUOUS WITH THE TROUGH OF THE NEXT DEPRESSION/PIT. THE ENTIRE WETLAND REPLICATION AREA SHALL BE SCULPTED USING THE PIT-AND-MOUND METHOD WHERE THE FEATURES VARY IN SIZE BUT IN GENERAL AVERAGE 12-INCHES IN HEIGHT FROM THE TOP OF THE CREST ON THE MOUND TO THE BOTTOM OF THE TROUGH IN THE PIT. THE WIDTH OF THE CONSTRUCTED MOUNDS SHALL BE DETERMINED IN THE FIELD IN CONSULTATION WITH THE WS. ROUGHLY 50 PERCENT OF THE SURFACE AREA OF THE REPLICATION SITE SHALL BE MOUNDS AND 50 PERCENT SHALL BE PITS. ROCKS AND BOULDERS UNCOVERED DURING THE EXCAVATION MAY BE LEFT IN PLACE OR RANDOMLY RESET AT FINAL GRADE UPON APPROVAL FROM THE WS PROVIDED THAT THEY DO NOT SIGNIFICANTLY DECREASE THE PLANTABLE AREA OF THE MITIGATION AREA. THESE ROCKS AND BOULDERS, SHALL BE PLACED IN SUCH A WAY AS TO PROVIDE CREVICES AND CAVITIES SUITABLE FOR USE BY WILDLIFE.
- THE SUPERVISING WS WILL INSPECT THE SUB-GRADE OF THE REPLICATION AREAS TO ENSURE TO THE MAXIMUM EXTENT PRACTICABLE THAT THE PROPER HYDROLOGY AND MICROTOPOGRAPHY HAVE BEEN ESTABLISHED. THE WS SHALL DOCUMENT THE SUBGRADE CONDITIONS IN HIS/HER FIELD NOTES INCLUDING A DISCUSSION OF ANY RECOMMENDED FIELD ADJUSTMENTS BASED ON DIRECT FIELD OBSERVATIONS TO ACHIEVE THE DESIRED HYDROLOGY. IN SUPPORT OF THIS ASSESSMENT THE SITE CONTRACTOR SHALL PROVIDE AN INTERIM AS-BUILT DRAWING SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR OF THE COMMONWEALTH DEPICTING SUB-GRADE CONTOURS (1-FOOT CONTOUR INTERVALS WITH REPRESENTATIVE SPOT ELEVATIONS IN PLAN VIEW AND A MINIMUM OF TWO SECTION VIEWS) AND THE LIMITS OF THE GRADING. THE INTERIM AS-BUILT SHALL INCLUDE A SURFACE AREA CALCULATION CONFIRMING THAT SUFFICIENT ACREAGE HAS BEEN PROVIDED (EXCLUDING SIDE SLOPES), AS PER THE PERMITS. LOCATIONS OF CROSS-SECTIONS SHOULD BE INDICATED ON THE PLAN VIEW.
- AFTER THE PROPOSED SUBGRADES AND MICRO-TOPOGRAPHY HAVE BEEN VERIFIED BY PROJECT SURVEYORS AND THE INTERIM AS-BUILT HAS BEEN REVIEWED BY THE SUPERVISING WS, APPROXIMATELY 12 INCHES OF AN EVENLY MIXED ORGANIC/MINERAL SOIL WILL BE PLACED WITHIN THE REPLICATION AREA BRINGING GRADES TO THE FINAL DESIRED ELEVATIONS. IF FEASIBLE, THE SITE CONTRACTOR MAY TRANSLOCATE SUITABLE HYDRIC SOILS FROM THE BVW IMPACT SITE TO THE REPLICATION SITE. SOIL AMENDMENTS FROM OFF-SITE SOURCES WILL ALSO BE NEEDED. THE SITE CONTRACTOR SHALL PROVIDE THE WS WITH WRITTEN DOCUMENTATION IDENTIFYING THE SUPPLIER AND LOCATION OF THE SOURCE MATERIAL AND CERTIFICATION THAT IT DOES NOT CONTAIN ANY SEEDS, STEMS OR ANY OTHER INVASIVE SPECIES PLANT PARTS. THE HYDRIC SOIL SHALL BE MADE BY MIXING PLANTABLE SOIL BORROW OR OTHER CLEAN MINERAL SOIL WITH CLEAN LEAF COMPOST IN AN APPROXIMATELY 80:20 MIXTURE. THE SOIL MIXTURE SHALL BE MIXED AND CONFIRMED VIA LABORATORY ANALYSIS BEFORE PLACEMENT (SEE NOTE 8). MINERAL SOIL CONSISTENCY SHALL BE LOOSE TO FRIABLE AND TEXTURE SHALL BE SANDY LOAM TO SILT LOAM (AS DEFINED BY USDA TEXTURAL SOIL CLASSIFICATION SYSTEM OR SOIL SCIENCE SOCIETY OF AMERICAN GLOSSARY OF SOIL SCIENCE TERMS). THE AMENDED ORGANIC MATERIAL USED WILL BE WELL OR PARTIALLY DECOMPOSED. AS NOTED ABOVE, CLEAN LEAF COMPOST IS THE PREFERRED SOIL AMENDMENT TO ACHIEVE THESE STANDARDS. NOTE THAT "CLEAN" REFERS BOTH TO A NEGLIGIBLE AMOUNT (<1%) OF PHYSICAL CONTAMINANTS SUCH AS PLASTIC AND TO THE LACK OF CHEMICAL CONTAMINANTS THAT MIGHT POSE A HAZARD TO PLANTS OR ANIMALS. A MINIMUM ORGANIC CARBON CONTENT OF 12% (21 PERCENT ORGANIC MATTER) ON A DRY WEIGHT BASIS FOR SOILS WILL BE USED IN THE WETLAND REPLICATION AREA. THE SELECTED SITE CONTRACTOR WILL FORWARD ONE (1) SAMPLE OF THE AMENDED SOIL MIX TO THE UNIVERSITY OF MASSACHUSETTS SOIL AND TISSUE PLANT TESTING LABORATORY (OR EQUIVALENT QUALIFIED LABORATORY) FOR ANALYSIS CONFIRMING THAT THIS SPECIFICATION HAS BEEN MET. THE ANALYSIS SHALL INCLUDE A ROUTINE SOIL ANALYSIS [PH, BUFFER PH, EXTRACTABLE NUTRIENTS (P, K, CA, MG, FE, MN, ZN, CU, B, S), EXTRACTABLE ALUMINUM, CATION EXCHANGE CAPACITY, PERCENT BASE SATURATION, EXTRACTABLE (AND ESTIMATED TOTAL) LEAD] AND SOIL ORGANIC MATTER ANALYSIS [DETERMINATION OF PERCENT SOIL ORGANIC MATTER BY LOSS ON IGNITION]. THE REPRESENTATIVE GRAB SAMPLE SHALL BE COLLECTED BY THE SITE CONTRACTOR FROM A LOCATION IN THE WETLAND TOP SOIL MIX FOLLOWING THE UMASS SOIL AND PLANT TISSUE TESTING LABORATORY SAMPLING AND COLLECTION PROTOCOLS. THE LAB ANALYSIS SHALL BE PROVIDED TO THE WS ALONG WITH WRITTEN CERTIFICATION FROM THE SITE CONTRACTOR THAT THE WETLAND TOP SOIL WAS COLLECTED PER THE REFERENCED PROTOCOL AND MEETS THE DESIRED SPECIFICATION. THE ANALYSIS AND WRITTEN CERTIFICATION OF SAME SHALL BE PROVIDED TO THE WS PRIOR TO PLACING THE WETLAND TOP SOIL IN THE REPLICATION AREA.
- WETLAND TOP SOIL SHALL BE DEPOSITED IN THE REPLICATION AREA IN A MANNER THAT MINIMIZES TRAVEL AND SUBSEQUENT COMPACTION OF THE PIT AND MOUND SUBGRADE. SHOULD SOILS BE COMPACTED, THEY SHALL BE LOOSENEED BY A METHOD SUCH AS ROTOTILLING.

- PRIOR TO SEEDING, THE WS SHALL INSPECT THE FINAL-GRADES OF THE REPLICATION AREA TO ENSURE TO THE MAXIMUM EXTENT PRACTICABLE THAT THE PROPER HYDROLOGY HAS BEEN ESTABLISHED. THE WS SHALL DOCUMENT THE FINAL-GRADE CONDITIONS IN HIS/HER FIELD NOTES INCLUDING A DISCUSSION OF ANY RECOMMENDED FIELD ADJUSTMENTS BASED ON DIRECT FIELD OBSERVATIONS TO ACHIEVE THE DESIRED HYDROLOGY. IN SUPPORT OF THIS ASSESSMENT THE SITE CONTRACTOR SHALL PROVIDE AN INTERIM AS-BUILT DRAWING SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR OF THE COMMONWEALTH DEPICTING FINAL-GRADE CONTOURS (1-FOOT CONTOUR INTERVALS WITH REPRESENTATIVE SPOT ELEVATIONS IN PLAN VIEW AND A MINIMUM OF TWO SECTION VIEWS) AND THE LIMITS OF THE GRADING. THE INTERIM AS-BUILT SHALL INCLUDE A SURFACE AREA CALCULATION CONFIRMING THAT THE SPECIFIED WETLAND SQUARE FOOTAGE HAS BEEN PROVIDED (EXCLUDING SIDE SLOPES), AS PER THE PERMITS AND DESIGN DRAWINGS. THE CROSS-SECTION VIEWS SHALL DEPICT THE PROPOSED WETLAND SUB-GRADE, FINAL GRADE, PREDICTED HIGH AND LOW GROUND WATER ELEVATIONS (OR PERCHED GROUND WATER CONDITIONS AS THE CASE MAY BE), AND/OR OTHER INDICATORS OF SURFACE OR GROUND WATER HYDROLOGY INCLUDING DIRECT OBSERVATIONS AND SOIL CHARACTERISTICS. LOCATIONS OF CROSS-SECTIONS SHOULD BE INDICATED ON THE PLAN VIEW.
- THE WETLAND REPLICATION AREA SHALL BE SOWN WITH THE SPECIFIED WETLAND SEED MIX (SEE SPECIFICATION THIS SHEET) FOLLOWING THE MANUFACTURERS RECOMMENDED SEEDING RATES AND APPLICATION GUIDELINES. THE WETLAND SEED MIX SHALL BE SOWN WITHIN 24 HOURS OF BRINGING THE WETLAND REPLICATION AREA TO FINAL GRADE (NO EXCEPTIONS) IN ORDER TO ENCOURAGE THE RAPID GENERATION OF A DENSE HERBACEOUS LAYER THAT CAN LIMIT ENCROACHMENT FROM OPPORTUNISTIC INVASIVE PLANT SPECIES.
- THE REPLICATION AREA SIDE SLOPES SHALL BE STABILIZED WITH EROSION CONTROL MATTING (SEE C3.1) AND THE CONSERVATION SEED MIX (SEE SPECIFICATION THIS SHEET) WITHIN 24 HOURS OF BRINGING THE WETLAND REPLICATION AREA TO FINAL GRADE (NO EXCEPTIONS). THE CONSERVATION SEED MIX SHALL BE SOWN FOLLOWING THE MANUFACTURERS RECOMMENDED SEEDING RATES AND APPLICATION GUIDELINES.
- FOLLOWING FINAL GRADING, AN ADDITIONAL ROW OF COMPOST FILTER SOCKS SHALL BE INSTALLED BY THE SITE CONTRACTOR AROUND THE REMAINING OPEN PERIMETER OF THE WETLAND REPLICATION AREA TO PREVENT SEDIMENTATION FROM THE ACTIVE CONSTRUCTION WORK ZONE AND ACCESS WHILE THE SEEDS GERMINATE. CONSTRUCTION ACCESS ROUTES LEADING TO THE REPLICATION AREA SHALL BE STABILIZED WITH AN APPROPRIATE CONSERVATION SEED MIX, AS NECESSARY.
- IF THE SITE IS EXCAVATED TO THE SUB GRADE IN THE FALL AND DELAY IS INEVITABLE, CONSIDERATION SHALL BE GIVEN TO STABILIZING THE SITE FOR WINTER, AND CONDUCTING FINAL GRADING IN THE SPRING. THE SITE CONTRACTOR SHALL PROVIDE A WRITTEN INTERIM OVERWINTERING STABILIZATION PLAN FOR REVIEW AND APPROVAL BY THE WS.
- AT LEAST 75% OF THE SURFACE AREA OF THE REPLICATION AREA SHALL BE ESTABLISHED WITH NATIVE WETLAND PLANT SPECIES WITHIN TWO (2) GROWING SEASONS AFTER ALL THE PLANTING IS COMPLETE.
- THE EROSION CONTROL BARRIERS SHALL BE DISASSEMBLED AND PROPERLY DISPOSED OF BY THE SITE CONTRACTOR AFTER THE REPLICATION AREA IS DEEMED STABLE BY THE WS IN CONSULTATION WITH THE RE. SEDIMENT COLLECTED BY THESE DEVICES SHALL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.
- DUE TO UNPREDICTABILITY OF SHORT TERM LOCAL HYDROLOGIC CONDITIONS AND THE NEED FOR ADDITIONAL CARE TO ESTABLISH NEW PLANTINGS THE SITE CONTRACTOR SHALL IRRIGATE THE SEED, AS NECESSARY AND AS DIRECTED BY THE RE OR WS, DURING THE FIRST GROWING SEASON AFTER PLANTING. IRRIGATION SHALL BE PERFORMED WITH A WATER TRUCK OR OTHER APPROVED MEASURE.

**UPLAND SEED MIX**

SEED  
THE SPECIES AND APPLICATION RATES OF GRASS, LEGUME, AND COVER-CROP SEED FURNISHED SHALL BE THOSE STIPULATED AS FOLLOWS:

SEED	MINIMUM SEED PURITY (PERCENT)	MINIMUM GERMINATION (PERCENT)	RATE OF APPLICATION LB./1,000 S.F.
K31 TALL FESCUE	85	80	5
RED FESCUE (CREEPING)	85	80	5
WINTER RYE	85	80	5

SEED SHALL CONFORM TO THE REQUIREMENTS OF FED. SPEC. JJJ-S-181.

SEEDING SHALL NOT BE DONE DURING WINDY WEATHER OR ON TOP OF FROZEN OR EXCESSIVELY WET GROUND.

REGARDLESS OF THE TIME OF SEEDING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A FULL GROWTH OF GRASS. WHEN DIRECTED THE CONTRACTOR SHALL REFRITILLER, RESEED, AND REMULCH AREAS ON THE PROJECT THAT DO NOT DEVELOP A SATISFACTORY GROWTH OF GRASS.

LIME  
LIME SHALL BE GROUND LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES, AND SHALL BE GROUND TO SUCH FINENESS THAT 90% WILL PASS THROUGH A NO. 20 MESH SIEVE AND 50% WILL PASS THROUGH A NO. 100 MESH SIEVE. COARSER MATERIAL WILL BE ACCEPTABLE, PROVIDING THE RATES OF APPLICATION ARE INCREASED TO PROVIDE NOT LESS THAN THE MINIMUM QUANTITIES AND DEPTH SPECIFIED IN THE SPECIAL PROVISIONS ON THE BASIS OF THE TWO SIEVE REQUIREMENTS ABOVE. DOLOMITIC LIME OR A HIGH MAGNESIUM LIME SHALL CONTAIN AT LEAST 10% OF MAGNESIUM OXIDE. LIME SHALL BE APPLIED AT THE RATE OF 1 TON PER ACRE. ALL LIMING MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 602.

FERTILIZER  
FERTILIZER SHALL BE STANDARD COMMERCIAL FERTILIZERS SUPPLIED SEPARATELY OR IN MIXTURES CONTAINING THE PERCENTAGES OF TOTAL NITROGEN, AVAILABLE PHOSPHORIC ACID, AND WATER-SOLUBLE POTASH. THEY SHALL BE APPLIED AT THE RATE AND TO THE DEPTH SPECIFIED HEREIN, AND SHALL MEET THE REQUIREMENTS OF FED. SPEC. A-A-1909 AND APPLICABLE STATE LAWS. THEY SHALL BE FURNISHED IN STANDARD CONTAINERS WITH NAME, WEIGHT, AND GUARANTEED ANALYSIS OF CONTENTS CLEARLY MARKED THEREON. NO CYANAMIDE COMPOUNDS OR HYDRATED LIME SHALL BE PERMITTED IN MIXED FERTILIZERS. THE FERTILIZERS MAY BE SUPPLIED IN ONE OF THE FOLLOWING FORMS:

- A DRY, FREE-FLOWING FERTILIZER SUITABLE FOR APPLICATION BY A COMMON FERTILIZER SPREADER;
- A FINELY-GROUND FERTILIZER SOLUBLE IN WATER, SUITABLE FOR APPLICATION BY POWER SPRAYERS; OR
- A GRANULAR OR PELLET FORM SUITABLE FOR APPLICATION BY BLOWER EQUIPMENT.

FERTILIZERS SHALL BE 19-19-19 COMMERCIAL FERTILIZER AND SHALL BE SPREAD AT THE RATE OF 250 LB. PER ACRE.

MULCH  
MULCH SHALL BE COMMERCIALY AVAILABLE CELLULOSE-FIBER MULCH SUITABLE FOR USE IN SPRAY APPLICATIONS. IT SHALL CONSIST OF ELONGATED VIRGIN WOOD FIBERS CAPABLE OF PRODUCING A STRONG YELLOW-BROWN REACTION WITH GRAFF C STAIN FOR PRESENCE OF LIGNING IN ACCORDANCE WITH TAPPI TEST T 401 OS-74. THE ASH CONTENT SHALL NOT EXCEED 2.0 PERCENT. THE MATERIAL SHALL BE NON-TOXIC TO PLANTS AND ANIMALS UPON CONTACT AND SHALL CONTAIN A GREEN COLOR SUFFICIENT TO PROVIDE A DEFINITE CONTRAST WITH THE GROUND SURFACE FOR MEETING PURPOSES.

**WETLAND SEED MIX SPECIFICATION™ (OR APPROVED EQUIVALENT) FOR WETLAND REPLICATION SITE**

THE NEW ENGLAND WETMIX (WETLAND SEED MIX)™ CONTAINS A WIDE VARIETY OF NATIVE SEEDS THAT ARE SUITABLE FOR MOST WETLAND RESTORATION SITES THAT ARE NOT PERMANENTLY FLOODED. ALL SPECIES ARE BEST SUITED TO MOIST GROUND AS FOUND IN MOST WET MEADOWS, SCRUB SHRUB, OR FORESTED WETLAND RESTORATION AREAS. THE WETLAND SEEDS IN THIS MIX CAN BE SOWN BY HAND, WITH A HAND-HELD SPREADER, OR HYDRO-SEEDED. LIGHTLY RAKE TO INSURE GOOD SEED-TO-SOIL CONTACT. SEEDING CAN TAKE PLACE ON FROZEN SOIL, AS THE FREEZING AND THAWING WEATHER OF LATE FALL AND LATE WINTER WILL WORK THE SEED INTO THE SOIL. IF SPRING CONDITIONS ARE DRIER THAN USUAL WATERING MAY BE REQUIRED. IF SOWING DURING THE SUMMER MONTHS SUPPLEMENTAL WATERING WILL LIKELY BE REQUIRED UNTIL GERMINATION. A LIGHT MULCH OF CLEAN, WEED FREE STRAW IS RECOMMENDED. APPLICATION RATE = 1 LB/2,500 SQ. FT.

SPECIES (TYP.): FOX SEDGE, (CAREX VULPINOIDEA), LURID SEDGE, (CAREX LURIDA), BLUNT BROOM SEDGE, (CAREX SCOPARIA), SENSITIVE FERN, (ONOCLEA SENSIBILIS), BLUE VERVAIN, (VERBENA HASTATA), HOP SEDGE, (CAREX LUPULINA), GREEN BULRUSH, (SCIRPUS ATROVIRENS), NODDING BUR MARIGOLD, (BIDENS CER-NUA), BRISTLY SEDGE, (CAREX COMOSA), FRINGED SEDGE, (CAREX CRINITA), AMERICAN MANNAGRASS, (GLYCERIA GRANDIS), WOOL GRASS, (SCIRPUS CYPERINUS), SOFT RUSH, (JUNCUS EFFUSUS), SPOTTED JOE PYE WEED, (EUPATORIUM MACULATUM), BONESET, (EUPATORIUM PERFOLIATUM), MUD PLANTAIN, (ALISMA SUBCORDATUM), NEW ENGLAND ASTER, (ASTER NOVAE-ANGLIAE), RATTLESNAKE GRASS, (GLYCERIA CANADENSIS), PURPLESTEM ASTER (ASTER PUNICEUS), SOFT STEM BULRUSH, (SCIRPUS VALIDUS), BLUEFLAG (IRIS VERSICOLOR), SWAMP MILKWEED, (ASCLEPIAS INCARNATA), MONKEY FLOWER, (MIMULUS RIGENS).

THE SITE CONTRACTOR SHALL SUBMIT CERTIFICATION OF COMPLIANCE FOR THE WETLAND SEED MIX TO THE RE AND WS PRIOR TO PLACING THE SEED IN THE REPLICATION AREA. A MANUFACTURER'S CERTIFICATE OF COMPLIANCE TO THE SPECIFICATION SHALL BE SUBMITTED BY THE MANUFACTURER WITH EACH SHIPMENT OF SEED. THESE CERTIFICATES SHALL INCLUDE THE GUARANTEED PERCENTAGES OF PURITY, WEED CONTENT AND GERMINATION OF THE SEED AND ALSO THE NET WEIGHT AND DATE SHIPPED. NO SEED MAY BE SOWN UNTIL THE CONTRACTOR HAS SUBMITTED CERTIFICATES.

**NEW ENGLAND CONSERVATION/WILDLIFE MIX™ (OR APPROVED EQUIVALENT) FOR WETLAND REPLICATION AREA SIDESLOPES & ADJACENT UPLAND BUFFER ZONE**

THE NEW ENGLAND CONSERVATION/WILDLIFE MIX™ PROVIDES A PERMANENT COVER OF GRASSES, WILDFLOWERS, AND LEGUMES. FOR BOTH GOOD EROSION CONTROL AND WILDLIFE HABITAT VALUE. THE MIX IS DESIGNED TO BE A NO MAINTENANCE SEEDING, AND IS APPROPRIATE FOR CUT AND FILL SLOPES, DETENTION BASIN SIDE SLOPES, AND DISTURBED AREAS ADJACENT TO COMMERCIAL AND RESIDENTIAL PROJECTS. APPLICATION RATE = 1 LB/1,750 SQ. FT.

SPECIES (TYP.): VIRGINIA WILD RYE, (ELYMUS VIRGINICUS), LITTLE BLUESTEM, (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM, (ANDROPOGON GERARDII), CREEPING RED FESCUE, (FESTUCA RUBRA), SWITCH GRASS, (PANICUM VIRGATUM), PARTRIDGE PEA, (CHAMAECRISTA FASCICULATA), DEER TONGUE, (PANICUM CLANDESTINUM), INDIAN GRASS, (SORGHASTRUM NUTANS), OX EYE SUNFLOWER, (HELIOPSIS HELIANTHOIDES), COMMON MILKWEED, (ASCLEPIAS SYRIACA), SPOTTED JOE PYE WEED, (EUPATORIUM MACULATUM), GRASS LEAVED GOLDENROD, (EUTHAMIA GRAMINIFOLIA), BLUE VERVAIN, (VERBENA HASTATA), NEW ENGLAND ASTER, (ASTER NOVAE-ANGLIAE), EARLY GOLDENROD, (SOLIDAGO JUNCEA).

THE SITE CONTRACTOR SHALL SUBMIT CERTIFICATION OF COMPLIANCE FOR THE SLOPE SEED MIX TO THE RE AND WS PRIOR TO PLACEMENT ON THE SLOPES OR RESTORED ACCESS ROADS. A MANUFACTURER'S CERTIFICATE OF COMPLIANCE TO THE SPECIFICATION SHALL BE SUBMITTED BY THE MANUFACTURER WITH EACH SHIPMENT OF SEED. THESE CERTIFICATES SHALL INCLUDE THE GUARANTEED PERCENTAGES OF PURITY, WEED CONTENT AND GERMINATION OF THE SEED AND ALSO THE NET WEIGHT AND DATE SHIPPED. NO SEED MAY BE SOWN UNTIL THE CONTRACTOR HAS SUBMITTED CERTIFICATES.

12/22/2016 8:21:22 AM P:\MSG Data\Projects\MA - New Bedford\036 RW14-32 Tree Clearing\CADD\NOI Submission\103-036 SHEET\_GENERAL.dwg (CNS)



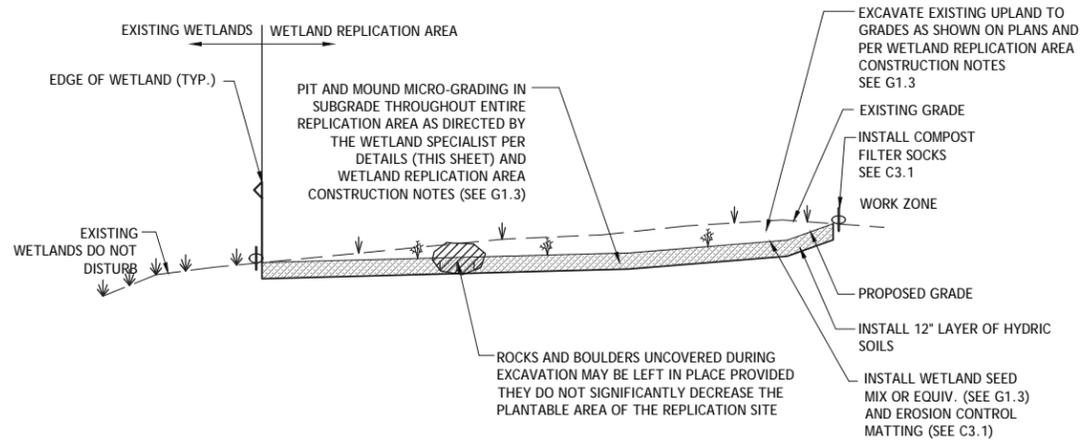
NO.	DATE	DESCRIPTION	BY

PROJECT	RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS
OWNER	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS

PROJECT NO.	103-036
CADD FILE	SHEET_GENERAL
DESIGNED BY	CNM
DRAWN BY	CNM
CHECKED BY	CAS
DATE	DECEMBER 2015
DRAWING SCALE	N.T.S.

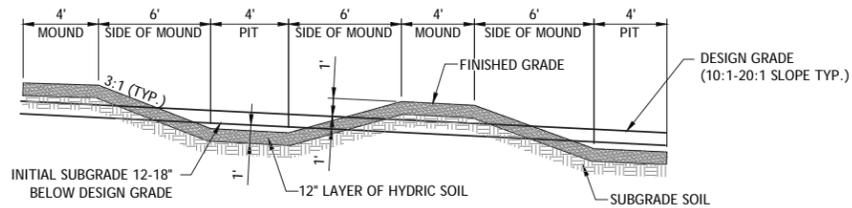
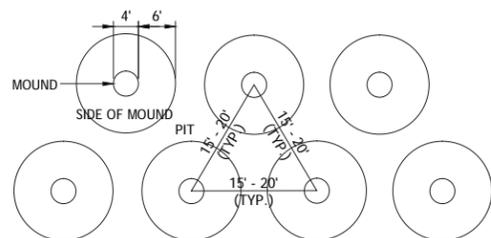
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**WETLAND REPLICATION AND TREE CLEARING NOTES**  
GRAPHIC SCALE  
NOT TO SCALE

DRAWING NO.  
**G1.3**  
3 OF 10



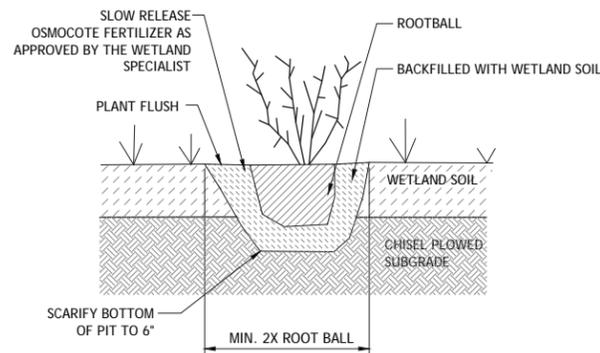
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SCALE: N.T.S.



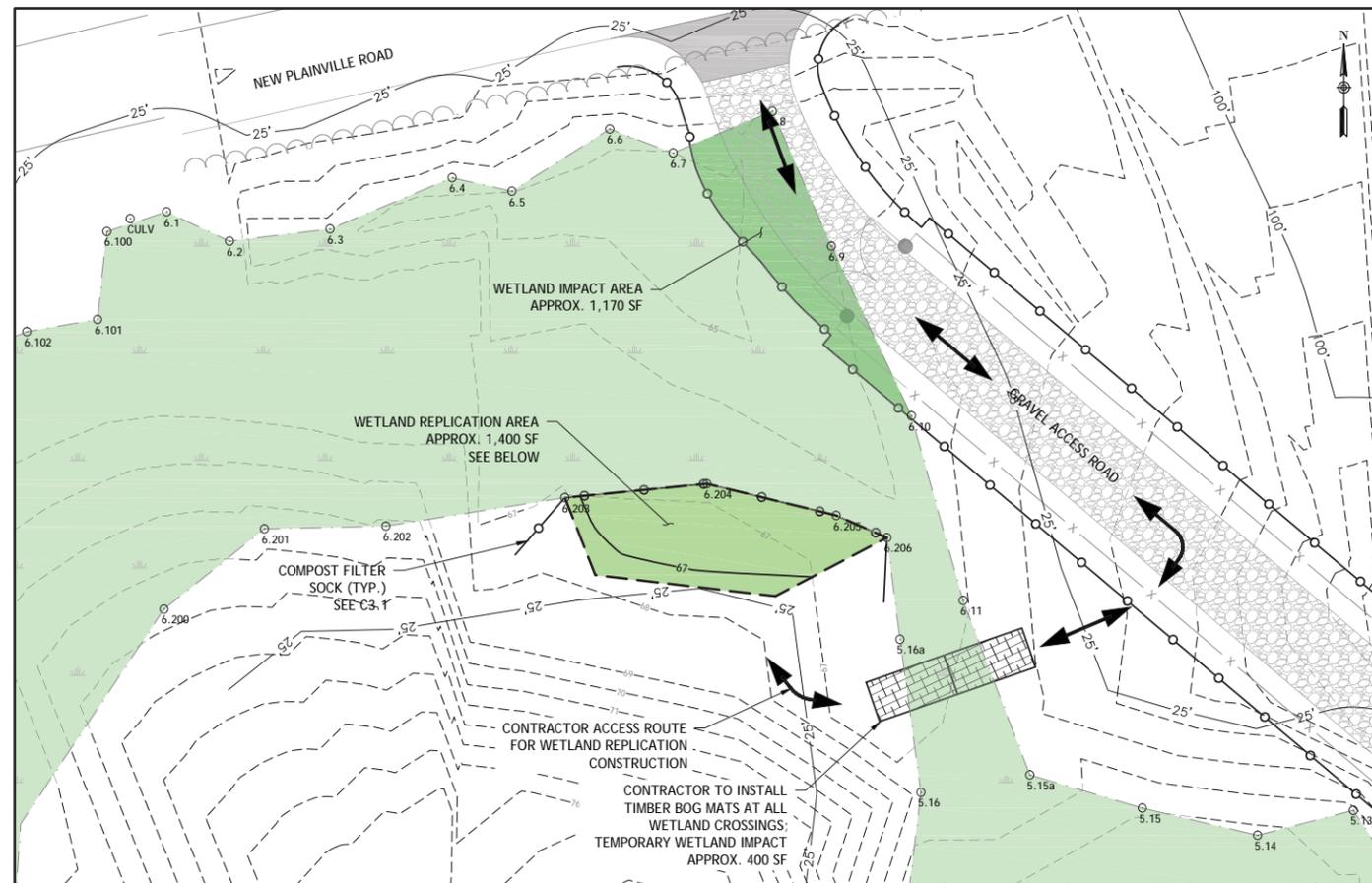
**PIT AND MOUND TOPOGRAPHY DETAIL**

SCALE: N.T.S.



**SHRUB PLANTING DETAIL**

SCALE: N.T.S.



**WETLAND REPLICATION AREA/WETLAND IMPACT AREA**

SCALE: 1" = 20'



**WETLAND PLANTING PLAN**

SCALE: 1" = 5'



NO.	DATE	DESCRIPTION	BY

PROJECT	OWNER
RUNWAY 14-32 TREE CLEARING PERMIT DRAWINGS	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT NEW BEDFORD, MASSACHUSETTS

PROJECT NO.	103-036
CADD FILE	SHEET_WETLAND
DESIGNED BY	CNM
DRAWN BY	CNM
CHECKED BY	CAS
DATE	DECEMBER 2015
DRAWING SCALE	AS SHOWN

SHEET TITLE	GRAPHIC SCALE AS SHOWN
WETLAND REPLICATION PLAN	

DRAWING NO.	W1.1 A
12 OF 12	

12/10/2015 9:35:36 AM P:\ASG Data\Projects\MA - New Bedford\036 RW14-32 Tree Clearing\CADD\NOI Submission\103-036 SHEET\_WETLAND.dwg (CJM)



**Attachment B**

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Photographs



View of impact area, site of wetland data form 6-W.



View of upland adjacent to impact area, site of wetland data form 6-U.



View of proposed replication area.

Supporting Documentation

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**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: New Bedford Airport City/County: New Bedford/ Bristol Sampling Date: October 27, 2015  
 Applicant/Owner: New Bedford Airport State: MA Sampling Point: 6-W  
 Investigator(s): Amanda Atwell and Jeremy Fennell Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Bottomland Local relief (concave, convex, none): Concave Slope (%): 0-2  
 Subregion (LRR or MLRA): R Lat: 41.683246 Long: -70.963654 Datum: NAD83  
 Soil Map Unit Name: Swansea muck NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>1-Series, 5-Series, 6-Series</u>
Remarks: (Explain alternative procedures here or in a separate report.)    	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>12'</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>surface</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  	
Remarks: Wetland displays microtopographic hummocks and roots of some species are elevated/butressed, perhaps from erosion in addition to water regime.	

**VEGETATION – Use scientific names of plants.**

Sampling Point: 6-W

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot size: <u>30</u> )					
1. <u>Acer rubrum</u>	<u>70</u>	<u>Y</u>	<u>FAC</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
2. <u>Betula populifolia</u>	<u>10</u>	<u>N</u>	<u>FAC</u>		
3. <u>Pinos strobus</u>	<u>10</u>	<u>N</u>	<u>FAW</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	<u>90</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15</u> )					
1. <u>Vaccinium corymbosum</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>		
2. <u>Clethra alnifolia</u>	<u>70</u>	<u>Y</u>	<u>FAC</u>		
3. <u>Lyonia ligustrina</u>	<u>10</u>	<u>N</u>	<u>FACW</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	<u>100</u>	= Total Cover		<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
<b>Herb Stratum</b> (Plot size: <u>5</u> )					
1. <u>Clethra alnifolia</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>		
2. <u>Smilax rotundifolia</u>	<u>5</u>	<u>N</u>	<u>FAC</u>		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	<u>15</u>	= Total Cover		<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.	
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	<u>0</u>	= Total Cover		<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	
Remarks: (Include photo numbers here or on a separate sheet.)					
Spagnum moss was present on elevated/butressed roots.					

**SOIL**

Sampling Point: 6-W

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3"	10YR 2/2	100					Muck	
3-7"	10YR 2/1	100					Muck	
7-16"	10YR 4/1	89	10YR 6/2	10	D	M	Loamy fine sand	Gravelly
			7.5YR 2.5/2	1	C	PL		
16-24"	10YR 4/1	90	10YR 6/1	10	D	M	Coarse sandy loam	Gravelly

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks: Some mixing was evident along root channels.

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: New Bedford Airport City/County: New Bedford/ Bristol Sampling Date: October 27, 2015  
 Applicant/Owner: New Bedford Airport State: MA Sampling Point: 6-U  
 Investigator(s): Amanda Atwell and Jeremy Fennell Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Upland terrace Local relief (concave, convex, none): Convex Slope (%): 3-5  
 Subregion (LRR or MLRA): R Lat: 41.683219 Long: -70.963796 Datum: NAD83  
 Soil Map Unit Name: Swansea muck NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply) <ul style="list-style-type: none"> <li><input type="checkbox"/> Surface Water (A1)</li> <li><input type="checkbox"/> High Water Table (A2)</li> <li><input type="checkbox"/> Saturation (A3)</li> <li><input type="checkbox"/> Water Marks (B1)</li> <li><input type="checkbox"/> Sediment Deposits (B2)</li> <li><input type="checkbox"/> Drift Deposits (B3)</li> <li><input type="checkbox"/> Algal Mat or Crust (B4)</li> <li><input type="checkbox"/> Iron Deposits (B5)</li> <li><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</li> <li><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</li> <li><input type="checkbox"/> Water-Stained Leaves (B9)</li> <li><input type="checkbox"/> Aquatic Fauna (B13)</li> <li><input type="checkbox"/> Marl Deposits (B15)</li> <li><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</li> <li><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</li> <li><input type="checkbox"/> Presence of Reduced Iron (C4)</li> <li><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</li> <li><input type="checkbox"/> Thin Muck Surface (C7)</li> <li><input type="checkbox"/> Other (Explain in Remarks)</li> </ul>	<b>Secondary Indicators (minimum of two required)</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Surface Soil Cracks (B6)</li> <li><input type="checkbox"/> Drainage Patterns (B10)</li> <li><input type="checkbox"/> Moss Trim Lines (B16)</li> <li><input type="checkbox"/> Dry-Season Water Table (C2)</li> <li><input type="checkbox"/> Crayfish Burrows (C8)</li> <li><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</li> <li><input type="checkbox"/> Stunted or Stressed Plants (D1)</li> <li><input type="checkbox"/> Geomorphic Position (D2)</li> <li><input type="checkbox"/> Shallow Aquitard (D3)</li> <li><input type="checkbox"/> Microtopographic Relief (D4)</li> <li><input type="checkbox"/> FAC-Neutral Test (D5)</li> </ul>
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<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION – Use scientific names of plants.**

Sampling Point: 6-U

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Pinus strobus</u>	<u>55</u>	<u>Y</u>	<u>FACU</u>
2. <u>Quercus alba</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>
3. <u>Acer rubrum</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
4. <u>Betula alleghaniensis</u>	<u>15</u>	<u>N</u>	<u>FAC</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

<u>105</u> = Total Cover			
<b>Sapling/Shrub Stratum (Plot size: <u>15</u> )</b>			
1. <u>Fagus grandifolia</u>	<u>35</u>	<u>Y</u>	<u>FACU</u>
2. <u>Clethra alnifolia</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>
3. <u>Vaccinium corymbosum</u>	<u>8</u>	<u>N</u>	<u>FACW</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

<u>93</u> = Total Cover			
<b>Herb Stratum (Plot size: <u>5</u> )</b>			
1. <u>Mitchella repens</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
2. <u>Coptis trifolia</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
<u>25</u> = Total Cover			

<b>Woody Vine Stratum (Plot size: _____ )</b>			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
<u>0</u> = Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = \_\_\_\_\_

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is ≤3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No X

Remarks: (Include photo numbers here or on a separate sheet.)

**SOIL**

Sampling Point: 6-U

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
2"	7.5YR 2.5/2	100					Peat	
1"	10YR 2/1	100					Muck	
0-2"	10YR 2/1	100					Mucky modified sand	
2-7"	10YR 5/2	100					Sand	E horizon
7-12"	10YR 4/2	82	7.5Y 3/3	8	C	M	Sandy loam	Spodic-like
			10YR 3/1	10	C	M		
12-19"	2.5Y 6/4	80	2.5Y 5/2	10	D	M	Sandy loam	
			2.5Y 6/6	4	C	M		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes X No \_\_\_\_\_

**Remarks:**

Soil has spodic-like fractures (podzolization) including a pronounced E horizon and manganese concentrations in the spodic. The spodic-like layer could be evidence of a high water table.



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 1. Summary Sheet

**Important:** When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



New Bedford Regional Airport Access Road Replication Plan

Project Name

New Bedford/Bristol, MA

Location

BVW Evaluation #1 - 1,170 square feet

12/15/15

Size of Area Being Impacted

Date

Impact Areas (linear feet, square feet, or acres for each of the impact areas within the site)

Name	Waterbody/ Waterway	Wetland	Upland*	Total Area
1. BVW Wetland 6		1170		1170
2.				
3.				
4.				
5.				
6.				
7.				

\*Riverfront Area/BLSF

Attach Sketch map and/or photos of the Impact Areas

Narrative Description of Site (attach separate page if necessary)

Please see report: The BVW replication site is located in an forested upland described within report.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Certification

I hereby certify that this project has been designed to avoid, minimize, and mitigate adverse effects on wildlife habitat, and that it will not, following two growing seasons of project completion and thereafter, substantially reduce its capacity to provide important wildlife habitat functions.

  
Signature of Wildlife Specialist (per 310 CMR 10.60 (1) (b))

Amanda Atwell  
Typed or Printed Name



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (for each wetland or non-wetland resource area)

#### I. General Information

New Bedford Regional Airport Access Road Replication Plan

Project Location (from NOI page 1)

BVW Evaluation #1 - 1,170 square feet

Impact Area (number/name)

10/27/15

Date(s) of Site Visit(s) and Data Collection

Sunny, approximately 55 degrees F

Weather Conditions During Site Visit (if snow cover, include depth)

Amanda Atwell, Jeremy Fennell

12/15/15

Person completing form per 310 CMR 10.60(1)(b)

Date this form was completed

The information on this data sheet is based on my observations unless otherwise indicated

Signature

#### II. Site Description (complete A or B under Classification - see instructions for full description)

##### A. Classification

1. For Wetland Resource Areas, complete the following:

System:	<u>Palustrine</u>	Subsystem:	<u>Forested</u>
Class:	<u>Broad-leaved Deciduous</u>	Subclass:	<u>Seasonally flooded</u>

Hydrology/Water Regime

- |  |   |
|--|---|
| <input type="checkbox"/> Permanently flooded           | <input type="checkbox"/> Saturated              |
| <input type="checkbox"/> Intermittently exposed        | <input type="checkbox"/> Temporarily flooded    |
| <input type="checkbox"/> Semi-permanently flooded      | <input type="checkbox"/> Intermittently flooded |
| <input checked="" type="checkbox"/> Seasonally flooded | <input type="checkbox"/> Artificially flooded   |

2. For Riverfront or Bordering Land Subject to Flooding Resource Areas, complete the following.  
Use a terrestrial classification system such as one of the two listed below:

- "Classification of the Natural Communities of Massachusetts (Draft)" by Patricia C. Swain and Jennifer B. Kearsley, MA DFW NHESP, Westborough, MA. July 2000. ([Department of Fish & Game Website](#))
- "New England Wildlife: Habitat, Natural History, and Distribution" by Richard M. DeGraaf and Deborah D. Rudis, USDA Forest Service, Northeastern Forest Experiment Station. General Technical Report NE-108. August 1992. 491 pages.

Community Name

Vegetation Description

Physical Description



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

#### B. Inventory (Plant community)

% Cover: 70% 90% 0% 10% 20%  
Trees (> 20') Shrubs (< 20') Woody vines Mosses Herbaceous

Plant Lists (species that comprise 10% or more of the vegetative cover in each strata; "\*" designates a dominant plant species for the strata):

Strata	Plant Species	Strata	Plant Species
Tree	Acer rubrum		
Tree	Clethra alnifolia		

#### C. Inventory (Soils)

Swansea muck	very poorly drained
Soil Survey Unit	Drainage Class
muck	7 inches
Texture (upper part)	Depth
12 inches	
Depth to Water Table	

### III. Important Habitat Features (complete for all resource areas)

If the following habitat characteristics are present, describe & quantify them on a separate sheet & attach.

Wildlife Food

Important Wetland/Aquatic Food Plants (smartweeds, pondweeds, wild rice, bulrush, wild celery)

Abundant       Present       Absent

Important Upland/Wetland Food Plants (hard mast and fruit/berry producers)

Abundant       Present       Absent

Shrub thickets or streambeds with abundant earthworms (American woodcock)

Present       Absent

Shrub and/or herbaceous vegetation suitable for veery nesting

Present       Absent



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Number of trees (live or dead) > 30" DBH: None

Number (or density) of Standing Dead Trees (potential for cavities and perches):

<u>None</u> 6-12" dbh	<u>None</u> 12-18" dbh	<u>None</u> 18-24" dbh	<u>None</u> > 24" dbh
--------------------------	---------------------------	---------------------------	--------------------------

Number of Tree Cavities in trunks or limbs of:

1 (6")  
6-12" diameter (e.g., tree swallow, saw whet owl, screech owl, bluebird, other songbirds)

1 (18", located next to roadway)  
12-18" diameter (e.g., hooded merganser, wood duck, common goldeneye, mink)

None  
>18" diameter (e.g., hooded merganser, wood duck, common goldeneye, common merganser, barred owl, mink, raccoon, fisher)

Small mammal burrows

Abundant       Present       Absent

Cover/Perches/Basking/Denning/Nesting Habitat

Dense herbaceous cover (voles, small mammals, amphibians & reptiles)

Large woody debris on the ground (small mammals, mink, amphibians & reptiles)

Rocks, crevices, logs, tree roots or hummocks under water's surface (turtles, snakes, frogs)

Rocks, crevices, fallen logs, overhanging branches or hummocks at, or within 1m above the water's surface (turtles, snakes, frogs, wading birds, wood duck, mink, raccoon)

Rock piles, crevices, or hollow logs suitable for:

otter       mink       porcupine       bear       bobcat       turkey vulture

Live or dead standing vegetation overhanging water or offering good visibility of open water (e.g., osprey, kingfisher, flycatchers, cedar waxwings)

Depressions that may serve as seasonal (vernal/autumnal) pools

Present       Absent

Standing water present at least part of the growing season, suitable for use by

Breeding amphibians       Non-breeding amphibians (foraging, re-hydration)

Turtles       Foraging waterfowl

Sphagnum hummocks or mats, moss-covered logs or saturated logs, overhanging or directly adjacent to pools of standing water in spring (four-toed salamander)

Present       Absent



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Important habitat characteristics (if present, describe and quantify them on a separate sheet)

Medium to large (> 6"), flat rocks within a stream (cover for stream salamanders and nesting habitat for spring & two-lined salamanders)

Present  Absent

Flat rocks and logs on banks or within exposed portions of streambeds (cover for stream salamanders and nesting habitat for dusky salamanders)

Present  Absent

Underwater banks of fine silt and/or clay (beaver, muskrat, otter)

Present  Absent

Undercut or overhanging banks (small mammals, mink, weasels)

Present  Absent

Vertical sandy banks (bank swallow, kingfisher)

Present  Absent

Areas of ice-free open water in winter

Present  Absent

Mud flats

Present  Absent

Exposed areas of well-drained, sandy soil suitable for turtle nesting

Present  Absent

Wildlife dens/nests (if present, describe & quantify them on the back of this sheet)

Turtle nesting sites

Present  Absent

Bank swallow colony

Present  Absent

Nest(s) present of

Bald Eagle  Osprey  Great Blue Heron

Den(s) present of

Otter  Mink  Beaver



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Project area is within:

- 100' of beaver, mink or otter den, bank swallow colony or turtle nesting area
- 200' of Great Blue Heron or osprey nest(s)
- 1400' of a Bald Eagle nest<sup>1</sup>

Emergent Wetlands (if present, describe & quantify them on a separate sheet)

Emergent wetland vegetation at least seasonally flooded during the growing season (wood duck, green heron, black-crowned night heron, king rail, Virginia rail, coot, etc.)

Flooded > 5 cm  Present  Absent

Flooded > 25 cm (pied-billed grebe)  Present  Absent

Persistent emergent wetland vegetation at least seasonally flooded during the growing season (mallard, American bittern, sora, common snipe, red-winged blackbird, swamp sparrow, marsh wren)

Flooded > 5 cm  Present  Absent

Flooded > 25 cm (least bittern, common moorhen)  Present  Absent

Cattail emergent wetland vegetation at least seasonally flooded during the growing season

Flooded > 5 cm (marsh wren)  Present  Absent

Flooded > 25 cm (least bittern, common moorhen)  Present  Absent

Fine-leafed emergent vegetation (grasses and sedges) at least seasonally flooded during the growing season (common snipe, spotted sandpiper, sedge wren)

Flooded > 5 cm  Present  Absent

Flooded > 25 cm (least bittern, common moorhen)  Present  Absent

#### IV. Landscape Context

A. **Habitat Continuity** (if present, describe the landscape context on a separate sheet and its importance for area-sensitive species)

- |   |                     |                              |  |
|---|---------------------|------------------------------|--|
| Is the impact area part of an emergent marsh at least | 1.0 acre in size?   | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| (marsh and waterbirds)                                | 2.0 acres in size?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
|   | 5.0 acres in size?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
|   | 10.0 acres in size? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

<sup>1</sup> 1400 feet is the distance used by NHESP for evaluating potential disturbance impacts on eagle nests under MESA. Keep in mind, however, that this doesn't give jurisdiction within 1400' of an eagle's nest; it only identifies it on the checklist so that adverse effects can be avoided if work in a resource area is within 1400 feet.



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

- Is the impact area part of a wetland complex at least 2.5 acres in size?  Yes  No  
(turtles, frogs, waterfowl, mammals)
- 5.0 acres in size?  Yes  No  
10.0 acres in size?  Yes  No  
25.0 acres in size?  Yes  No

For upland resource areas is the impact area part of contiguous forested habitat at least

- (forest interior nesting birds)
- 50 acres in size?  Yes  No  
100 acres in size?  Yes  No  
250 acres in size?  Yes  No  
500 acres in size?  Yes  No
- (grassland nesting birds)
- > 1.0 acre in size?  Yes  No
- (special habitat such as gallery floodplain forest, alder thicket, etc.)
- > 1.0 acre in size?  Yes  No

#### B. Connectivity with adjoining natural habitats

- No direct connections to adjacent areas of wildlife habitat (little connectivity function)
- Connectors numerous or impact area is embedded in a large area of natural habitat (limited connectivity function)
- Impact area contributes to a limited number of connectors to adjacent areas of habitat (somewhat important for connectivity function)
- Impact area serves as *part of* a sole connector to adjacent areas of habitat (important for connectivity function)
- Impact area serves as *only* connector to adjacent areas of habitat (very important for connectivity function)

#### V. Habitat Degradation (describe degradation and wildlife impacts on the back of the sheet)

- Evidence of significant chemical contamination
- Evidence of significant levels of dumping
- Evidence of significant erosion or sedimentation problems
- Significant invasion of exotic plants (e.g., purple loosestrife, *Phragmites*, glossy buckthorn)
- Disturbance from roads or highways  Other human disturbance
- Is the site the only resource area in the vicinity of an otherwise developed area

Note: These are not the only important habitat features that may be observed on a site. If the wildlife specialist identifies other features they should be noted in the application.



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

#### VI. Quantification Table for Important Habitat Characteristics

Habitat Characteristic	Amount Impacted in Impact Area	Current (entire site)	Post-Construction (entire site)
Example: standing dead trees 6-12" dbh	4	12	8
1 18" dbh live tree with cavity	1	many	many
potential for small mammal burrows	few	common	common

**Attachment H**

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Access Gravel Road Runoff Analysis Report

(prepared by ASG)

# EWB

New Bedford Regional Airport

## CONSTRUCT GRAVEL ACCESS ROAD RUNOFF ANALYSIS



Prepared By:

Airport Solutions Group  
390 Main Street, Suite 100  
Woburn, MA 01801

October 2015

## **1. INTRODUCTION**

The New Bedford Regional Airport, located in New Bedford, MA seeks to construct a gravel access road near Runway 14 between Old Plainville Road and New Plainville Road.

Existing topography and site features were obtained through a combination of aerial topography, on-ground topography, the MASS GIS system, and USGS Topographical Maps. Existing soil conditions were derived from a combination of test pits performed by ASG, MASS GIS soils, and the Natural Resources Conservation Services (NRCS) Web Soil Service Mapping Tool. The wetland resource area boundaries were obtained from Epsilon Associates wetland flagging conducted in 2015, and the MASS GIS system.

## **2. METHODOLOGY**

The existing and proposed watersheds were modeled utilizing the Rational Method. Runoff coefficients and rainfall intensities were obtained from the *Mass Highway Design Guide, 2006 version*. The rainfall intensity for the 10-year storm near Barnstable, MA was estimated at 4.3 in/hr from Exhibit 8-13. A minimum Tc of 10 minutes was assumed for analysis purposes.

## **3. EXISTING CONDITIONS**

The existing site near the proposed gravel access road contains 3.59 Acres of woods, brush, and wetlands near Runway 14 between Old Plainville Road and New Plainville Road. There is no closed drainage system in the area of analysis. Stormwater currently flows over land to nearby wetlands and infiltrates through the soil. See Figure 1 for a plan of the existing site conditions.

Watershed soils were determined to be a mixture of Hydrologic Soil Group (HSG) "A" & "B". All wetlands were classified hydrologic soil group "D". Wetlands, brush and woods were defined as having runoff coefficients of 0.10, 0.25 and 0.20 respectively.

The existing condition results in a weighted runoff number (C) of 0.19 and a peak runoff (Q) of approximately 2.96 cfs.

## **4. PROPOSED CONDITIONS**

The proposed condition contains a 910' long by 20' wide gravel access road with associated grass side slopes. Approximately 0.43 acres of woods and wetlands will be converted to gravel and 0.12 acres to grass for the road side slopes. See Figure 2 for a plan of the proposed site conditions.

Stormwater will flow over the gravel road to wooded areas, then infiltrate or flow over land into wetlands. A portion of stormwater will infiltrate through the gravel surface. Gravel and grass were defined as having runoff coefficients of 0.70 and 0.10 respectively.

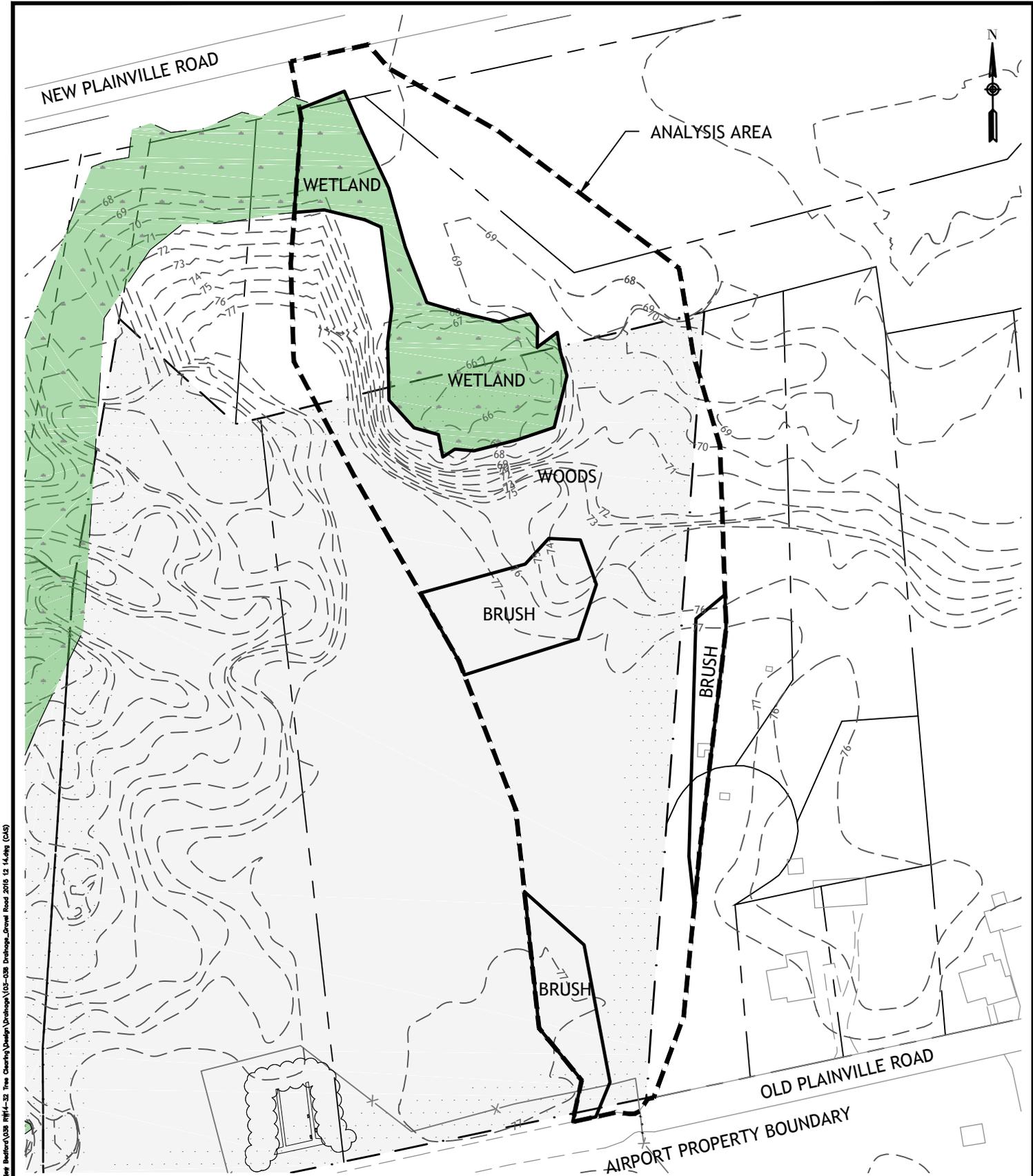
The proposed condition results in a weighted runoff number (C) of 0.25 and a peak runoff (Q) of approximately 3.89 cfs. Refer to the following table for detailed analysis of areas and runoff coefficients.

<b>Runoff Analysis</b>				
Rainfall Intensity			i = 4.3 in/hr	
<b>Existing Condition</b>				
Area Description	Area (SF)	Area (Acre)	C	C x A
Wetland	18,334	0.42	0.10	1,833
Brush	16,739	0.38	0.25	4,185
Woods	121,363	2.79	0.20	24,273
Total	156,436	3.59	0.19 Avg.	30,291
<b>Q=CiA</b>	<b>2.96 Cfs</b>			
<b>Proposed Condition</b>				
Area Description	Area (SF)	Area (Acre)	C	C x A
Gravel	18,730	0.43	0.70	13,111
Grass	5,142	0.12	0.10	514
Wetland	17,693	0.41	0.10	1,769
Brush	16,046	0.37	0.25	4,012
Woods	98,825	2.27	0.20	19,765
Total	156,436	3.59	0.25 Avg.	39,171
<b>Q=CiA</b>	<b>3.89 Cfs</b>			

Table 1: Runoff Analysis Tabulation.

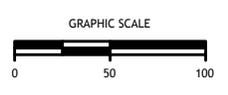
## 5. CONCLUSION

The proposed gravel road will result in an estimated 0.93 cfs increase in runoff from the existing condition for a 10-year storm. The stormwater will flow into the woods directly adjacent to the proposed road. The increase in runoff is negligible especially when compared with the larger watershed area, which will likely see no negative impacts from the proposed gravel road.



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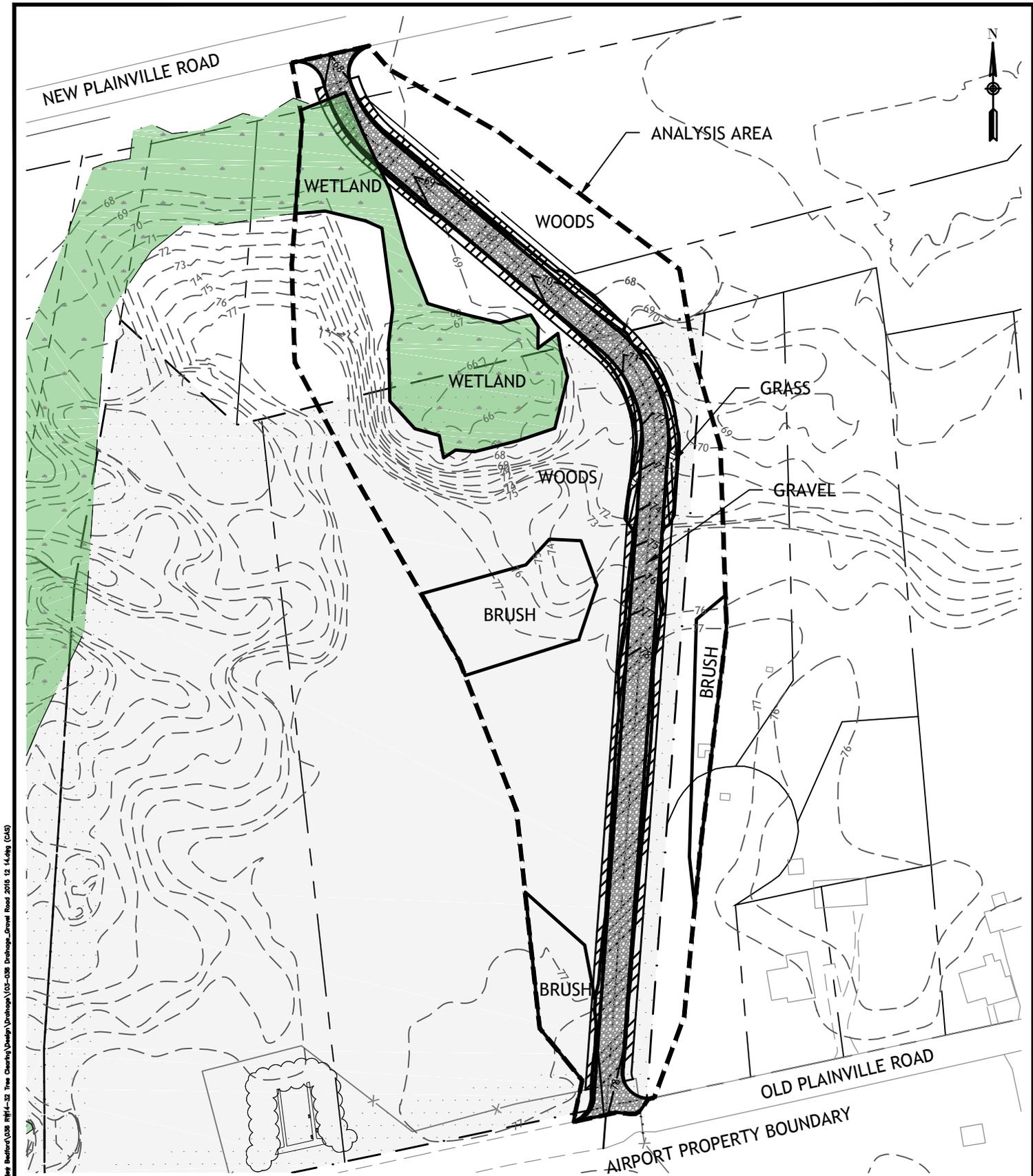
PROJECT NO.	103-030
CADD FILE	DRAINAGE_GRAVEL ROAD
DATE	OCTOBER 2015
DRAWING SCALE	1" = 100'
DESIGNED BY	CNM
DRAWN BY	CNM



SHEET TITLE	EXISTING CONDITIONS
PROJECT	RUNWAY 14-32 TREE CLEARING NEW BEDFORD REGIONAL AIRPORT

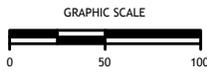
FIGURE NO.	<b>FIG. 1</b>
	1 OF 2

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PROJECT NO.	103-030
CADD FILE	DRAINAGE_GRAVEL ROAD
DATE	OCTOBER 2015
DRAWING SCALE	1" = 100'
DESIGNED BY	CNM
DRAWN BY	CNM



SHEET TITLE

PROPOSED CONDITIONS

FIGURE NO.

**FIG. 2**

PROJECT

RUNWAY 14-32 TREE CLEARING  
NEW BEDFORD REGIONAL AIRPORT

2 OF 2

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