Harbor Fuels Aboveground Storage Tank

East Boston, Massachusetts

Notice of Intent

July 24, 2019

submitted to the **Boston Conservation Commission**

submitted by **Harbor Fuels LLC**

prepared by **Fort Point Associates, Inc.**

in association with
Hancock Survey Associates Inc.
Web Engineering Associates, Inc.

Fort Point Associates, Inc.
Urban Planning Environmental Consulting Project Permitting

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TRANSMITTAL FORM

Enter your transmittal number → X283869 (Transmittal Number)

Your unique Transmittal Number can be accessed online:
http://www.mass.gov/eea/agencies/massdep/service/approvals/transmittal-form-for-payment.html

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: MassDEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. **Copy 2** must accompany your fee payment. **Copy 3** should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

MassDEP
P.O. Box 4062
Boston, MA
02211

*** Note:**
For BWSC Permits, enter the LSP.

A. Permit Information

1. Permit Code: 4 to 7 character code from permit instructions	2. Name of Permit Category
BRP WPA Form 3	Notice of Intent

3. Type of Project or Activity: Other

B. Applicant Information – Firm or Individual

1. Name of Firm - Or, if party needing this approval is an individual enter name below: Harbor Fuels LLC

2. **Last Name** of Individual	3. **First Name** of Individual	4. MI

5. Street Address: 256 Marginal Street

6. City/Town	7. State	8. Zip Code	9. Telephone #	10. Ext. #
East Boston	MA	02128	(617) 720-3835	

11. Contact Person	12. e-mail address
Kevin Lussier	klussier@oceanhavens.com

C. Facility, Site or Individual Requiring Approval

1. Name of Facility, Site Or Individual: Harbor Fuels Aboveground Storage Tank

2. Street Address: 256 Marginal Street

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #
East Boston	MA	02128		

8. DEP Facility Number (if Known)	9. Federal I.D. Number (if Known)	10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

1. Name of Firm Or Individual: Fort Point Associates, Inc.

2. Address: 31 State Street, 3rd Floor

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #
Boston	MA	02109	(617) 357-7044	207

8. Contact Person	9. LSP Number (BWSC Permits only)
Cara Pattullo	

E. Permit - Project Coordination

1. Is this project subject to MEPA review? ☐ yes ☒ no
If yes, enter the project's EOEA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

Special Provisions:

1. ☐ **Fee** Exempt (city, town or municipal housing authority)(state agency if fee is $100 or less).
There are no fee exemptions for BWSC permits, regardless of applicant status.
2. ☐ Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. ☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. ☐ Homeowner (according to 310 CMR 4.02).

Check Number	Dollar Amount	Date
197023598	$237.50	7/16/19

THE FACE OF THIS DOCUMENT CONTAINS A VOID PANTOGRAPH AND MICROPRINTING

TETRA TECH

TETRA TECH, INC
3475 E. Foothill Blvd.
Pasadena CA 91107-6024
626.470.2300

WELLS FARGO BANK, N.A.
Positive Pay Protected

56-382/412

197023598

DATE 07/16/2019

Pay Two Hundred Thirty-seven And 50/100 Dollars

******$237.50**

TO THE ORDER OF
COMMONWEALTH OF MASSACHUSETTS
DEPT OF ENVIRONMENTAL PROTECTION
BOX 4062
BOSTON, MA 02211

VOID AFTER 90 DAYS

⑈197023598⑈ ⑆041203824⑆9600048505⑈

THE FACE OF THIS DOCUMENT CONTAINS A VOID PANTOGRAPH AND MICROPRINTING

TETRA TECH

TETRA TECH, INC
3475 E. Foothill Blvd.
Pasadena CA 91107-6024
626.470.2300

WELLS FARGO BANK, N.A.
Positive Pay Protected

56-382/412

197023597

DATE 07/16/2019

Pay Seventy-five Only Dollars

******$75.00**

TO THE ORDER OF
CITY OF BOSTON
TREASURY DEPT
PO BOX 9715
BOSTON, MA 02114

VOID AFTER 90 DAYS

⑈197023597⑈ ⑆041203824⑆9600048505⑈

APPLICATION FORM

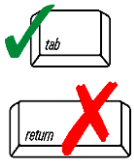
Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Boston
City/Town

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.

A. General Information

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

256 Marginal Street — a. Street Address
East Boston — b. City/Town
MA — c. Zip Code

Latitude and Longitude:
42.364080 — d. Latitude
-71.034007 — e. Longitude

0104445010 — f. Assessors Map/Plat Number
g. Parcel /Lot Number

2. Applicant:

Kevin — a. First Name
Lussier — b. Last Name
Harbor Fuels LLC — c. Organization
256 Marginal Street — d. Street Address
East Boston — e. City/Town
MA — f. State
02128 — g. Zip Code
(617) 720-3835 — h. Phone Number
i. Fax Number
klussier@oceanhavens.com — j. Email Address

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

a. First Name
b. Last Name
Massachusetts Port Authority — c. Organization
One Harborside Drive, Suite 200S — d. Street Address
East Boston — e. City/Town
MA — f. State
02128 — g. Zip Code
(617) 568-5000 — h. Phone Number
i. Fax Number
j. Email address

4. Representative (if any):

Cara — a. First Name
Pattullo — b. Last Name
Fort Point Associates, Inc. — c. Company
31 State Street, 3rd Floor — d. Street Address
Boston — e. City/Town
MA — f. State
02109 — g. Zip Code
(617) 357-7044 — h. Phone Number
i. Fax Number
cpattullo@fpa-inc.com — j. Email address

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

$312.50 — a. Total Fee Paid
$237.50 — b. State Fee Paid
$75 (City of Boston Fee) — c. City/Town Fee Paid

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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Boston
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A. General Information (continued)

6. General Project Description:

The proposed work will involve the construction of an approximately 588 square-foot (sf) concrete pad, an approximately 48 sf pump pad, installing the proposed tank, enclosing the Project Site with a chain-link fence, and installing approximately 21 6-inch steel and concrete bollards around the proposed fence.

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:

a. County	b. Certificate # (if registered land)
Suffolk	99032
c. Book	d. Page Number

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

1. ☐ Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
2. ☐ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

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

Massachusetts Department of Environmental Protection
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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. ☐ Bank	1. linear feet	2. linear feet
b. ☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c. ☐ 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. ☐ Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. ☐ Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. ☐ Riverfront Area	1. Name of Waterway (if available) - **specify coastal or inland**	

2. Width of Riverfront Area (check one):

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☐ 200 ft. - All other projects

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

4. Proposed alteration of the Riverfront Area:

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

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

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

3. ☒ Coastal Resource Areas: (See 310 CMR 10.25-10.35)

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

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Provided by MassDEP:

MassDEP File Number

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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. ☒ Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. ☐ Land Under the Ocean	0 (1. square feet)	
	(2. cubic yards dredged)	
c. ☐ Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. ☐ Coastal Beaches	(1. square feet)	(2. cubic yards beach nourishment)
e. ☐ Coastal Dunes	(1. square feet)	(2. cubic yards dune nourishment)

	Size of Proposed Alteration	Proposed Replacement (if any)
f. ☐ Coastal Banks	(1. linear feet)	
g. ☐ Rocky Intertidal Shores	(1. square feet)	
h. ☐ Salt Marshes	(1. square feet)	(2. sq ft restoration, rehab., creation)
i. ☐ Land Under Salt Ponds	(1. square feet)	
	(2. cubic yards dredged)	
j. ☐ Land Containing Shellfish	(1. square feet)	
k. ☐ 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. ☒ Land Subject to Coastal Storm Flowage	640 (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 Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

   a. ☐ Yes ☒ No

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

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

   August 2018
   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.2.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 _____ percentage/acreage

         (b) outside Resource Area _____ percentage/acreage

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

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

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

   (b) ☒ Photographs representative of the site

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

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.

Massachusetts Department of Environmental Protection
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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/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and ***mail to NHESP*** at above address

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

(d) ☐ Vegetation cover type map of site

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

(f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm; 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
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: 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

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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Provided by MassDEP:

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Boston
City/Town

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

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

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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Provided by MassDEP:

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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.

See Section A.7 in Attachment A - Supplemental Information
a. Plan Title

b. Prepared By

c. Signed and Stamped by

d. Final Revision Date

e. Scale

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

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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

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F. Signatures and Submittal Requirements

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

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

1. Signature of Applicant — 2. Date: 7/18/19

3. Signature of Property Owner (if different): James Stolecki — 4. Date: 7/24/19

5. Signature of Representative (if any) — 6. Date: 7/18/19

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.

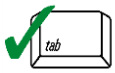
The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

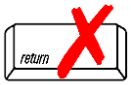
Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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:

256 Marginal Street	East Boston
a. Street Address	b. City/Town
197023597 (City); 197023598 (State)	$75.00 (City); $237.50 (State)
c. Check number	d. Fee amount

2. Applicant Mailing Address:

Kevin	Lussier	
a. First Name	b. Last Name	
Harbor Fuels LLC		
c. Organization		
256 Marginal Street		
d. Mailing Address		
East Boston	MA	02128
e. City/Town	f. State	g. Zip Code
(617) 720-3835		klussier@oceanhavens.com
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

a. First Name	b. Last Name	
Massachusetts Port Authority		
c. Organization		
One Harborside Drive, Suite 200S		
d. Mailing Address		
East Boston	MA	02128
e. City/Town	f. State	g. Zip Code
(617) 568-5000		
h. Phone Number	i. Fax Number	j. Email Address

B. Fees

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

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.

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
Category 2(j): other	1	$500	$500

Step 5/Total Project Fee: $500

Step 6/Fee Payments:

Total Project Fee:	$500 a. Total Fee from Step 5
State share of filing Fee:	$237.50 b. 1/2 Total Fee **less $**12.50
City/Town share of filling Fee:	$75 (Boston 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

SUPPLEMENTAL INFORMATION

ATTACHMENT A: SUPPLEMENTAL INFORMATION

A.1 OVERVIEW OF PROPOSED PROJECT

Harbor Fuels LLC (the "Applicant") is located at 256 Marginal Street in East Boston, Massachusetts, and is bordered by Boston Harbor on the south, Piers Park on the west, Marginal Street on the north, and vacant land on the east. See Figure 1, Locus Map. The Applicant is proposing to expand existing fueling operations by installing a new 20,000-gallon double wall aboveground diesel fuel storage tank in the Boston Harbor Shipyard & Marina (the "Shipyard") to service and support the boating operations in the Shipyard. The proposed work will involve the construction of an approximately 588 square-foot (sf) concrete pad, an approximately 48 sf pump pad, installing the proposed tank, enclosing the Project Site with a chain-link fence, and installing approximately 21 6-inch steel and concrete bollards around the proposed fence (cumulatively, the "Project"). The impacts, alterations, and mitigation to wetland resource areas are described in further detail below.

A.2 EXISTING CONDITIONS

The approximately 4,600 sf Project Site is located within the Shipyard on the East Boston waterfront and is accessed by a 20-foot fire lane that joins Marginal Street to the north. The Project Site is flat at elevation 16.3 feet Boston City Base (BCB) and is comprised of a mix of grass and compressed gravel. Based on a test pit done in 2013, the subsurface soils consist of medium dense clay and silt. The Project Site is currently being used for the storage of a shipping container and is located directly adjacent to an existing concrete pad and 20,000-gallon diesel fuel tank, which is also owned and operated by the Applicant. A fueling dock and marina are located directly south of the Project Site in Boston Inner Harbor. The entire Project Site is located within the FEMA 100-year storm flood elevation (FIRM panel 25025C0081J, effective March 16, 2016), which is elevation 12 feet NAVD88 (18.46 feet BCB) for the Project Site. See Figure 2, Aerial View of Project Site and Figure 3, Existing Conditions Photographs.

A.3 PROJECT DESCRIPTION

The Project will be constructed in one phase. The fence and bollards that currently surround the existing concrete pad and diesel tank will be removed and the Project Site will be cleared of all peat, organic, or otherwise unsuitable material down to the clay layer. A 14-foot wide, 46-foot long,16-inch high concrete pad will be constructed directly adjacent to the edge of the existing tank pad over crushed stone. A new 20,000-gallon double wall aboveground diesel fuel storage tank will be anchored to the pedestals with four anchor bolts and stainless-steel threaded rods that have a minimum of 17,000 pounds allowable tensile strength. The new and existing concrete pad will be surrounded by a new continuous 6-foot high chain

link fence, approximately 10-feet from the tanks, with lockable gates on opposite sides for access and security. The fence will be surrounded by 6-inch steel and concrete bollards (traffic barriers) for additional safety. The shipping container will be relocated outside the perimeter of the chain link fence and bollards. See Attachment D, Plans.

A.3.1 CLIMATE RESILIENCY

The function of the Shipyard necessitates a fuel tank to be within proximity to Boston Harbor in order to support the marine operations. However, unanchored fuel storage tanks can be easily moved by floodwaters and may create a serious threat to property, public safety, and the environment during a flood event. As a result, the Applicant has integrated the recommended best practices[1,2] into the Project to safeguard against failure or spillage during a major storm or flood event, particularly with greater storm frequency and intensity projected as a result of climate change.

The primary vulnerabilities associated with aboveground storage tank failure are related to forces from floodwaters or storm surge and potential contamination via filling and ventilation tubes. The aboveground storage tank has been designed to resist implosion and flotation forces and will be anchored to a large concrete slab whose weight is great enough to resist the uplift force of flood waters. All filling and ventilation tubes will be elevated above the Sea Level Rise - Design Flood Elevation (SLR-DFE) to prevent flood waters from entering the tank or fuel from spilling. The SLR-DFE is defined by the Boston Planning & Development Agency (BPDA) as the minimum performance target for reducing or eliminating flood risk, potential damage, and related adverse impacts, and includes a minimum of 24 inches of freeboard above the 1% annual chance flood after accounting for approximately 40 inches of expected sea level rise. The SLR-BFE for the Project Site has been defined as 15.0 feet NAVD88 (21.5 feet BCB). The top of the tank vent will be located above the SLR-BFE at elevation 23.5 feet NAVD 88 (30 feet BCB), and the top of the piping associated with the fill and suction will be at 21.5 feet NAVD 88 (28 feet BCB).

In the event of a storm, the power to the fuel system would be shut off and all valves associated with piping and dispensing would be closed. Before any projected major storm event, the operator would inventory and record the level of fuel in the tank to account for any loss or water entry.

A.3.2 STORMWATER MANAGEMENT

The Project complies with all the Massachusetts Stormwater Standards for a redevelopment project and will not create any new untreated discharges. The Project

[1] FEMA 499 Fact Sheet: Protecting Service Equipment
[2] RRT6 Fact Sheet #103a: Flood Preparedness Recommended Best Practices

will increase the recharge volume at the Project Site from the pre-development conditions by constructing a 12-inch wide, 28-inch deep crushed stone trench below and along the edge of the new concrete pad. For additional details and calculations, see Attachment B, Stormwater Report.

A.4 WETLAND RESOURCE AREAS

Based on the definitions provided in the WPA (310 CMR 10.21 through 10.37), the Project Site is located within the Land Subject to Coastal Storm Flowage wetland resource area and a regulated Buffer Zone, which is a protected area extending 100 feet inland from a Coastal Bank. The Project Site is located within the East Boston Designated Port Area (DPA). See Figure 4, Wetland Resource Areas.

A.4.1 LAND SUBJECT TO COASTAL STORM FLOWAGE

Land Subject to Coastal Storm Flowage (LSCSF) is defined in 310 CMR 10.04 as:

Land subject to an inundation caused by coastal storms up to and including that caused by the 100-year storm, surge of record, or storm of record, whichever is greater.

The LSCSF resource area was determined based on 100-year flood information provided by the Federal Emergency Management Agency (FEMA) Floor Insurance Rate Map (FIRM). The entire Project Site is located within the FEMA 100-year storm flood elevation (FIRM panel 25025C0081J, effective March 16, 2016), which is elevation 12 feet NAVD88 (18.46 feet BCB) for the Project Site. See Figure 5, FEMA Firmette.

A.4.2 COASTAL BANK BUFFER ZONE

The Buffer Zone is defined in 310 CMR 10.04 as:

That area of land extending 100 feet horizontally outward from the boundary of any area specified in 310 CMR 10.02(1)(a).

At the Project Site, the Buffer Zone extends 100 feet inland from the Top of Coastal Bank, which is defined by the edge of the nearby seawall on Boston Harbor. The southern Project Site boundary is located approximately 15 feet from the Top of Coastal Bank.

A.4.3 DESIGNATED PORT AREA

Designated Port Areas (DPAs) are defined in 310 CMR 10.26 as:

Those areas designated in 301 CMR 25.00: Designation of Port Areas.

The Project Site is located within the East Boston DPA.

A.5 PROJECT IMPACTS TO WETLAND RESOURCE AREAS

Potential Project impacts will be minimized to the greatest extent possible using mitigation measures such as erosion control, hay bales, and silt fences before and during construction to avoid any adverse impacts to wetland resource areas and buffers. The Project's conformance with the applicable performance standards are described below.

A.5.1 LAND SUBJECT TO COASTAL STORM FLOWAGE

While there are no performance standards for the LSCSF resource area, due to the proximate location near the coast, the Project has been designed with thoughtful consideration of the recurrent flooding associated with the predicted sea level rise and increased frequency and intensity of storm events. The aboveground storage tank will be anchored to the ground with four anchor bolts and a stainless-steel threaded rod that has a minimum of 17,000 pounds allowable tensile strength to mitigate the risk of being forced out of the ground by buoyancy forces. The top of the tank vent will be located above the flood zone elevation at elevation 23.5 feet NAVD 88 (30 feet BCB), which is 11.5 feet above the FEMA 100-year flood elevation. The top of the piping associated with the fill and suction will be at 21.5 feet NAVD 88 (28 feet BCB), which is 9.5 feet above the 100-year flood elevation. See Sheet M-3 in Attachment D – Plans for elevation details.

A.5.2 COASTAL BANK BUFFER ZONE

Activities within the 100-foot buffer zone will include the construction of the approximately 588 sf new concrete pad, the construction of the approximately 48 sf pump pad, the installation of approximately 4 sf of bollards, and the installation of the diesel tank and chain link fence. The small increase in impervious surface will be mitigated by the implementation of a crushed stone trench to infiltrate stormwater run-off from the new concrete pad. As a result, the Project will not have any adverse effects on the stability of the Coastal Bank, which is more than 20 feet from the proposed construction.

A.5.3 DESIGNATED PORT AREA

The Project does not include any alteration to Land Under Ocean within the DPA, and therefore is not subject to the performance standards at 310 CMR 10.26. The Project has been designed to avoid changes to the land's ability to provide support for adjacent coastal banks or coastal engineering structures.

A.6 CONSTRUCTION SCHEDULE, METHODS, AND MITIGATION

Construction will not begin until all required preconstruction regulatory approvals have been obtained. All temporary structures, including job trailers, portable bathroom facilities, and materials will be handled, stored, installed, cleaned, and protected in accordance with the best industry standards.

A.6.1 CONSTRUCTION PHASE MITIGATION METHODS

Construction will include the following methods for avoidance and mitigation:

- The Project Site will be prepared with appropriate erosion and siltation controls and shall be stabilized with hay bales and silt fences. The perimeter sedimentation controls will be in place at the end of each day and before rain events;
- Access for heavy equipment will be carefully planned to avoid destruction of existing vegetation, creation of ruts, and destabilization of the coastal bank;
- All equipment and unconsolidated materials will be removed from the floodplain prior to a significant coastal storm event;
- Hazardous material spill contaminants kit will be kept on-site at all times in case there is a release of oil, gasoline, or other toxic substances related to mechanical equipment;
- Stockpiled soils at the Project Site will be properly contained and covered to prevent erosion during rain events; and
- Upon completion of the site work, stabilization of the landscape area and all erosion control measures will be removed, and all structures will be cleaned of silt and debris. At that time, all construction related materials will be cleared from the Project Site.

A.6.2 SPILL PREVENTION AND RESPONSE MEASURES

The Applicant has developed an Operations and Maintenance Plan and will submit a Spill Prevention, Control, and Countermeasure Plan to prevent a discharge of oil and control a spill if one shall occur. See Attachment B, Stormwater Report for more details.

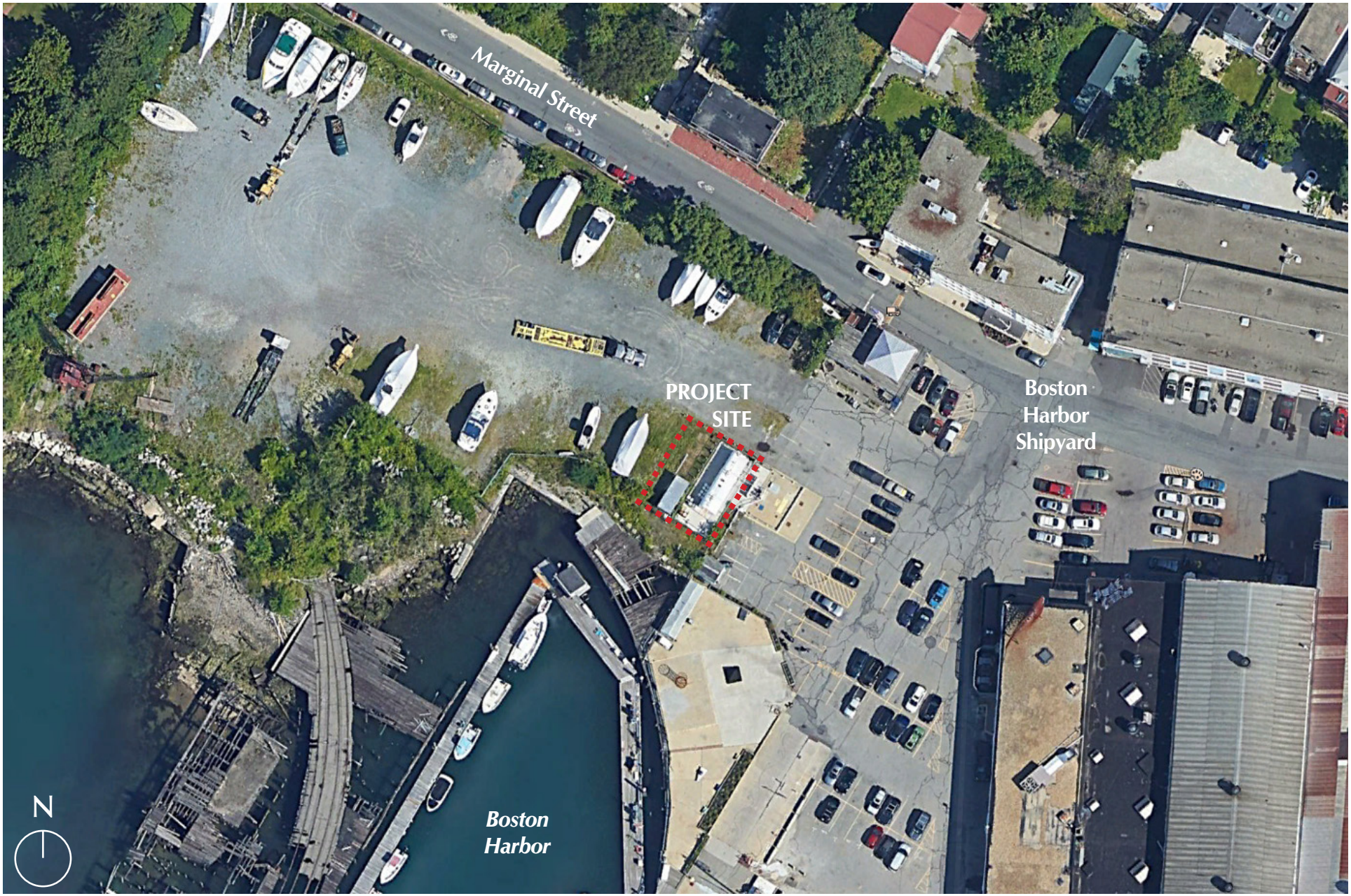
A.8 NOI PLAN LIST

Title	Sheet Number	Date	Stamp and Signature
Existing Conditions Plan of Land in Boston, MA	1 of 1	7/11/19	Jason A. Ellis
Site Plan	1 of 1	7/9/19	Anthony Donato
Site Plan – Proposed Modification	A-1	7/23/19	Robert P. Coluccio
Limited Site Plan – Elevations and Contours	A-2	7/23/19	Robert P. Coluccio
Piping/Mechanical	M-1	7/23/19	Robert P. Coluccio
Details	M-2	7/23/19	Robert P. Coluccio
20,000 Gallon Aboveground Storage Tank	M-3	7/23/19	Robert P. Coluccio
Concrete	S-1	7/23/19	Robert P. Coluccio

FIGURES

East Boston, Massachusetts

Figure 1
Locus Map
Source: USGS, 2018; Fort Point Associates, Inc., 2019



East Boston, Massachusetts

Figure 2
Aerial View of Project Site
Source: Google Earth; Fort Point Associates, Inc., 2019

View of the Project Site from the east.

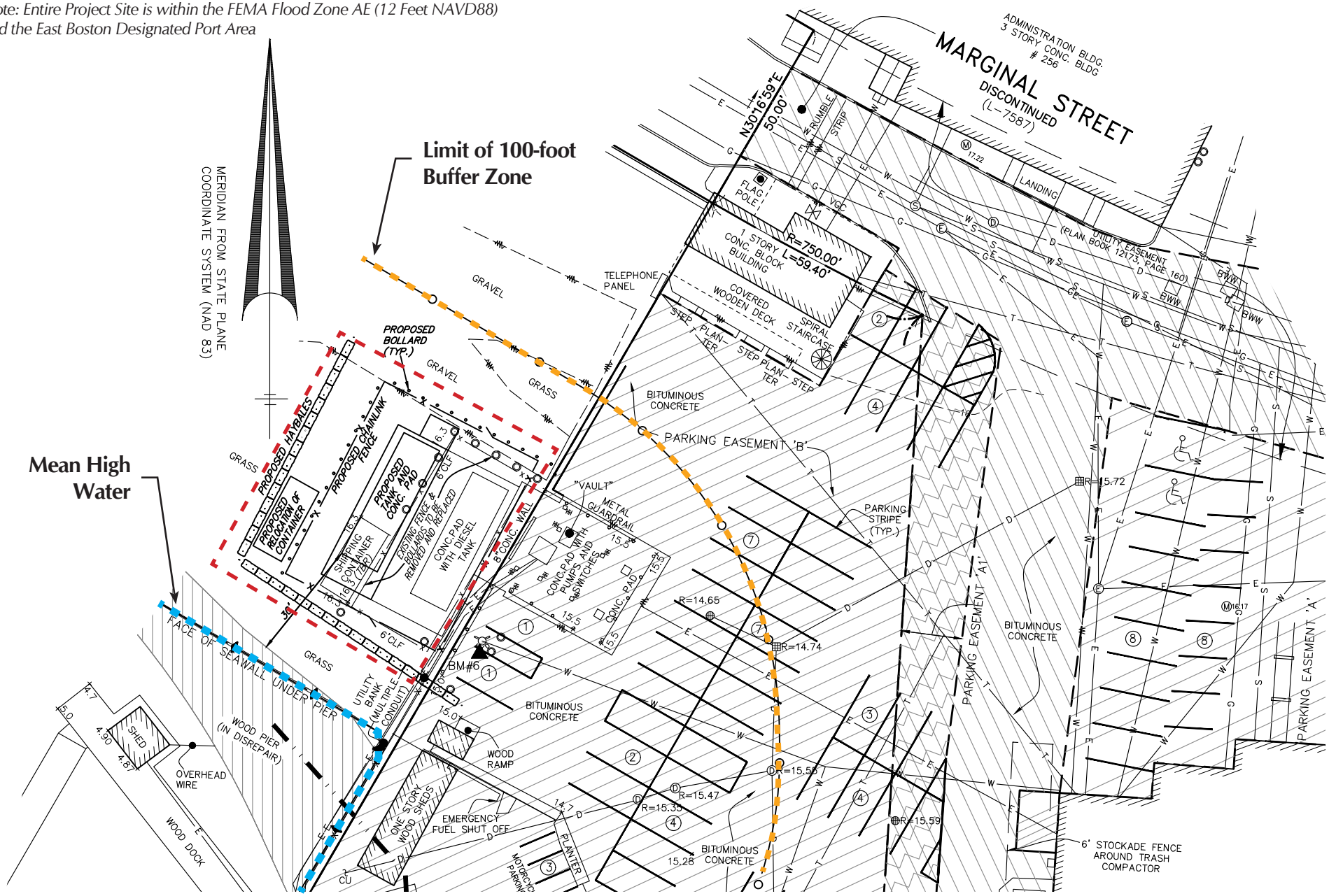
View of Project Site from the northwest.

Existing surface conditions at the Project Site.

View of the Project Site from the southwest.

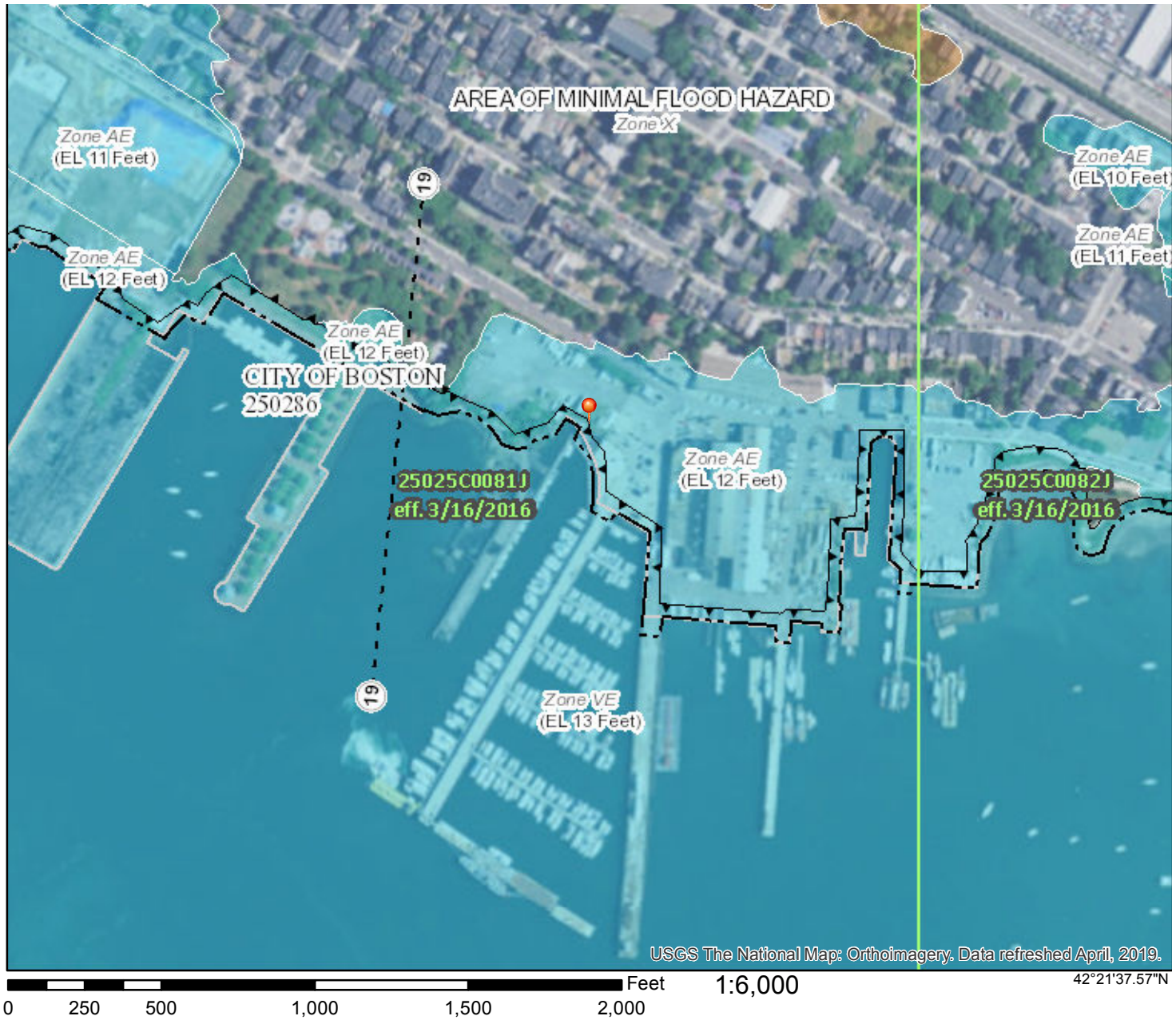
Figure 3
Existing Conditions Photographs
Source: Fort Point Associates, Inc., 2019

Note: Entire Project Site is within the FEMA Flood Zone AE (12 Feet NAVD88) and the East Boston Designated Port Area



East Boston, Massachusetts

Figure 4
Wetland Resource Areas
Source: Hancock Associates; Fort Point Associates Inc., 2019



East Boston, Massachusetts

Figure 5
FEMA Firmette
Source: FEMA FIRM No. 25025C0081J, Map Revised March 16, 2016

ATTACHMENT B

STORMWATER REPORT

PROJECT DESCRIPTION

Existing Conditions:

The project site is located at 256 Marginal Street in East Boston bounded by Marginal Street (vehicular access) to the north, and Boston Harbor to the south. Within the noted project area exists a 20,000 gallon above ground fuel storage tank (AST) with pump dispensers over concrete slabs. The fuel is dispensed to boats along the dock.

The current FEMA Flood Insurance Rate Map (FIRM Map# 25025c0081J) for the City of Boston indicates the project locus site is within FEMA Flood Hazard Zones (Zones AE and VE) as well as the 100' buffer zone for the Boston Harbor. The 100-year flood elevation is 12.0 NAVD (18.5 Boston City Base) for the AE Zone and 13.0 NAVD (19.5 Boston City Base) for the VE Zone. Boston Harbor is considered a class "SB (CSO)" surface water and is not considered a "critical area."

Proposed Conditions:

The proposed project scope involves installing a second 20,000 gallon above ground storage tank (AST) over a 42'x14' concrete pad adjacent to the existing concrete pad support the existing 20,000 gallon AST. The chain link fence and bollards currently will be relocated/replaced to accommodate both tanks. Straw wattles will be staked along the downslope side of the limit of work as noted on the plan.

Soils:

A review of the Web Soil Survey provided by the Natural Resources Conservation Service (NRCS) indicates that the site soils consist of a mix of fill material - Urban Land (Map Unit 603) and Udorthents (Map Unit 655). These soils are comprised of filled material/altered from natural soil conditions and therefore is not given a Hydrologic Soil Group Classification.

STORMWATER MANAGEMENT STANDARDS

The project involves adding a second 20,000 gallon AST over a concrete pad on a developed site. The proposed project includes work within the 100 foot buffer zone of Boston Harbor and therefore is subject to the MassDEP Stormwater Management Standards.

Standard #1

No new stormwater conveyances may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

There will be no new stormwater discharges from this project.

Standard #2

Stormwater management systems must be designed so that the post-development peak discharge rates do not exceed pre-development peak discharge rates. This standard may be waived for discharges to land subject to coastal storm flowage as defined in 310 CMR 10.04.

The project site is "Land Subject to Coastal Storm Flowage" as defined in 310 CMR 10.04, and therefore Standard 2 can be waived. The project scope includes expanding an existing concrete pad for the installation of a second above ground storage tank (AST)over a compacted gravel lot. The site slopes towards the harbor

Standard #3

Loss of annual recharge to groundwater should be eliminated or minimized through the use of infiltration measures including environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the annual recharge from the pre-development conditions, based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.

The project will comply with Standard #3. The lot is a mix of paved parking and derelict gravel. A 12" wide crushed stone trench will be constructed against the edge of the new slab to infiltrate stormwater run-off from the new slab. Recharge calculations are summarized below

Amount of new imperviousness:

42'x14' concrete slab = 588 s.f. ~ 16' x 8' Pump Chamber = 128 s.f.
Total Area: 588+128 = 716 s.f.
Recharge volume required: 716 s.f. x .25 ("C" soils) = 179 c.f.

Recharge Volume Provided:
(12" trench 3 sides & 12" of crushed stone below slab):

42'x15'x12" = 630 c.f. x .35 void ratio = 221 c.f. *(exceeds required)*

Standard #4

For new developments, stormwater management systems must be designed to remove 80% of the average annual load (post-development conditions) of Total Suspended Solids (TSS).

The proposed work involves the construction of a new 42'x14' concrete slab to support a proposed above ground AST. The slab area will be secured by a chain link fence and will not be a source of suspended solid pollutants.

Standard #5

Stormwater discharges from areas with higher potential pollutant loads require the use of specific stormwater management BMPs. The use of infiltration practices without pretreatment is prohibited.

The project proposes to install an above ground AST and not considered a higher potential pollutant load.

Standard #6
Stormwater discharges to critical areas must utilize certain stormwater management BMPs approved for "critical areas". Critical areas are Outstanding Resource Waters (ORWs), shellfish beds, swimming beaches, cold-water fisheries and recharge areas for public water supplies.

The proposed project is not located within or discharges to a critical area. Therefore this standard does not apply.

Standard #7
Redevelopment of previously developed sites must meet the Stormwater Management Regulations to the maximum extent practicable. However, if it is not practicable to meet all the Standards, new stormwater management systems must be designed to improve existing conditions.

The proposed project consists of adding an additional AST fuel storage tank to a previously developed site. The project complies with the Stormwater Management Regulations

Standard #8
Erosion and sediment controls must be implemented to prevent impacts during construction or land disturbance activities.

Downslope areas will be protected through the installation of staked haybales and silt fence

Standard #9
All stormwater management systems must have an operation and maintenance plan to ensure that systems function as designed.

The project site shall be maintained by Harbor Fuels, LLC. Refer to the Operation and Maintenance Plan appended to this report.

Standard #10
All illicit discharges to the stormwater management system are prohibited.

The proposed project does not have any illicit discharges to the proposed stormwater management system. An Illicit Discharge Compliance Certification is appended to the report

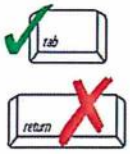
MA DEP – Checklist for Stormwater Report

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

Checklist for Stormwater Report

A. Introduction

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



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.[1] This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8[2]
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

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[1] The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

[2] For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

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

Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

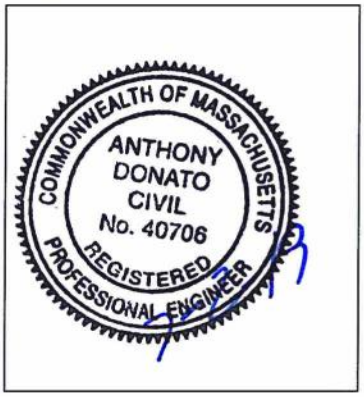
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

☐ New development

☑ Redevelopment

☐ Mix of New Development and Redevelopment

Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- ☐ No disturbance to any Wetland Resource Areas
- ☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☐ Reduced Impervious Area (Redevelopment Only)
- ☐ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
  - ☐ Credit 1
  - ☐ Credit 2
  - ☐ Credit 3
- ☐ Use of "country drainage" versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☐ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☐ Grass Channel
- ☐ Green Roof
- ☒ Other (describe): STORMWATER INFILTRATION/RECHARGE

Standard 1: No New Untreated Discharges

- ☒ No new untreated discharges
- ☐ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☐ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

- [x] Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- [ ] Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- [ ] Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

- [ ] Soil Analysis provided.
- [x] Required Recharge Volume calculation provided.
- [ ] Required Recharge volume reduced through use of the LID site Design Credits.
- [x] Sizing the infiltration, BMPs is based on the following method: Check the method used.
  - [x] Static
  - [ ] Simple Dynamic
  - [ ] Dynamic Field[1]
- [ ] Runoff from all impervious areas at the site discharging to the infiltration BMP.
- [ ] Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- [x] Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- [ ] Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
  - [ ] Site is comprised solely of C and D soils and/or bedrock at the land surface
  - [ ] M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
  - [ ] Solid Waste Landfill pursuant to 310 CMR 19.000
  - [ ] Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- [ ] Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- [ ] Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

[1] 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.

☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
- Provisions for storing materials and waste products inside or under cover;
- Vehicle washing controls;
- Requirements for routine inspections and maintenance of stormwater BMPs;
- Spill prevention and response plans;
- Provisions for maintenance of lawns, gardens, and other landscaped areas;
- Requirements for storage and use of fertilizers, herbicides, and pesticides;
- Pet waste management provisions;
- Provisions for operation and management of septic systems;
- Provisions for solid waste management;
- Snow disposal and plowing plans relative to Wetland Resource Areas;
- Winter Road Salt and/or Sand Use and Storage restrictions;
- Street sweeping schedules;
- Provisions for prevention of illicit discharges to the stormwater management system;
- Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
- Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
- List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.

☑ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.

☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:

- ☐ is within the Zone II or Interim Wellhead Protection Area
- ☐ is near or to other critical areas
- ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
- ☐ involves runoff from land uses with higher potential pollutant loads.

☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.

☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.

Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

☒ The BMP is sized (and calculations provided) based on:

- ☒ The ½" or 1" Water Quality Volume or
- ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.

☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.

☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs) N/A

☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.

☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted ***prior to*** the discharge of stormwater to the post-construction stormwater BMPs.

☐ The NPDES Multi-Sector General Permit does ***not*** cover the land use.

☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.

☐ All exposure has been eliminated.

☐ All exposure has ***not*** been eliminated and all BMPs selected are on MassDEP LUHPPL list.

☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas N/A

☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.

☐ Critical areas and BMPs are identified in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

☑ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:

- ☐ Limited Project
- ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
- ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
- ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
- ☐ Bike Path and/or Foot Path
- ☑ Redevelopment Project
- ☐ Redevelopment portion of mix of new and redevelopment.

☐ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.

☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.

☑ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has ***not*** been included in the Stormwater Report but will be submitted ***before*** land disturbance begins.

☑ The project is ***not*** covered by a NPDES Construction General Permit.

☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.

☐ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

☑ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:

- ☑ Name of the stormwater management system owners;
- ☑ Party responsible for operation and maintenance;
- ☐ Schedule for implementation of routine and non-routine maintenance tasks;
- ☐ Plan showing the location of all stormwater BMPs maintenance access areas;
- ☐ Description and delineation of public safety features;
- ☐ Estimated operation and maintenance budget; and
- ☐ Operation and Maintenance Log Form.

☐ The responsible party is ***not*** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:

- ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
- ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges (*not applicable - no closed drainage*)

☐ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;

☐ An Illicit Discharge Compliance Statement is attached;

☐ NO Illicit Discharge Compliance Statement is attached but will be submitted ***prior to*** the discharge of any stormwater to post-construction BMPs.

OPERATION AND MAINTENANCE PLAN

OPERATION AND MAINTENANCE PLAN
256 MARGINAL STREET
EAST BOSTON, MA

SITE CONTROLS

Before any construction takes place staked haybales will be installed along the downslope side of the limit of work.

SPILL PREVENTION AND CONTROL PLAN

Refer to the Spill Prevention, Control & Countermeasure (SPCC) Plan for spill prevention and control practices for this project.

CONSTRUCTION SCHEDULE

A. Prior to construction, perimeter fencing and sedimentation controls will be placed around the work area
B. Existing fencing and bollards will be removed as necessary
C. The proposed area of AST tank pad will be excavated and filled with clean crushed stone prior to pouring of the slab
D. AST tank will be installed and fencing and bollards replaced
E. Erosion controls will be removed.

BMP MAINTENANCE SCHEDULE FOR CONSTRUCTED SITE

1. Inspect and clean the perimeter stone infiltration trench every six months and after every major storm event (2 year return frequency). Replenish stone as necessary.

2. Inspect AST tank and controls every six months

3. It is anticipated that **Harbor Fuels, LLC** will be the owner and responsible for the operation and maintenance of the site. Their address is:

   Harbor Fuels, LLC
   256 Marginal Street
   East Boston MA 02128
   Attn: Kevin Lussier

NRCS SOILS MAP

Soil Map—Norfolk and Suffolk Counties, Massachusetts
(286 Marginal Street)

Map Scale: 1:2,650 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Norfolk and Suffolk Counties, Massachusetts
Survey Area Data: Version 14, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 10, 2014—Aug 25, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

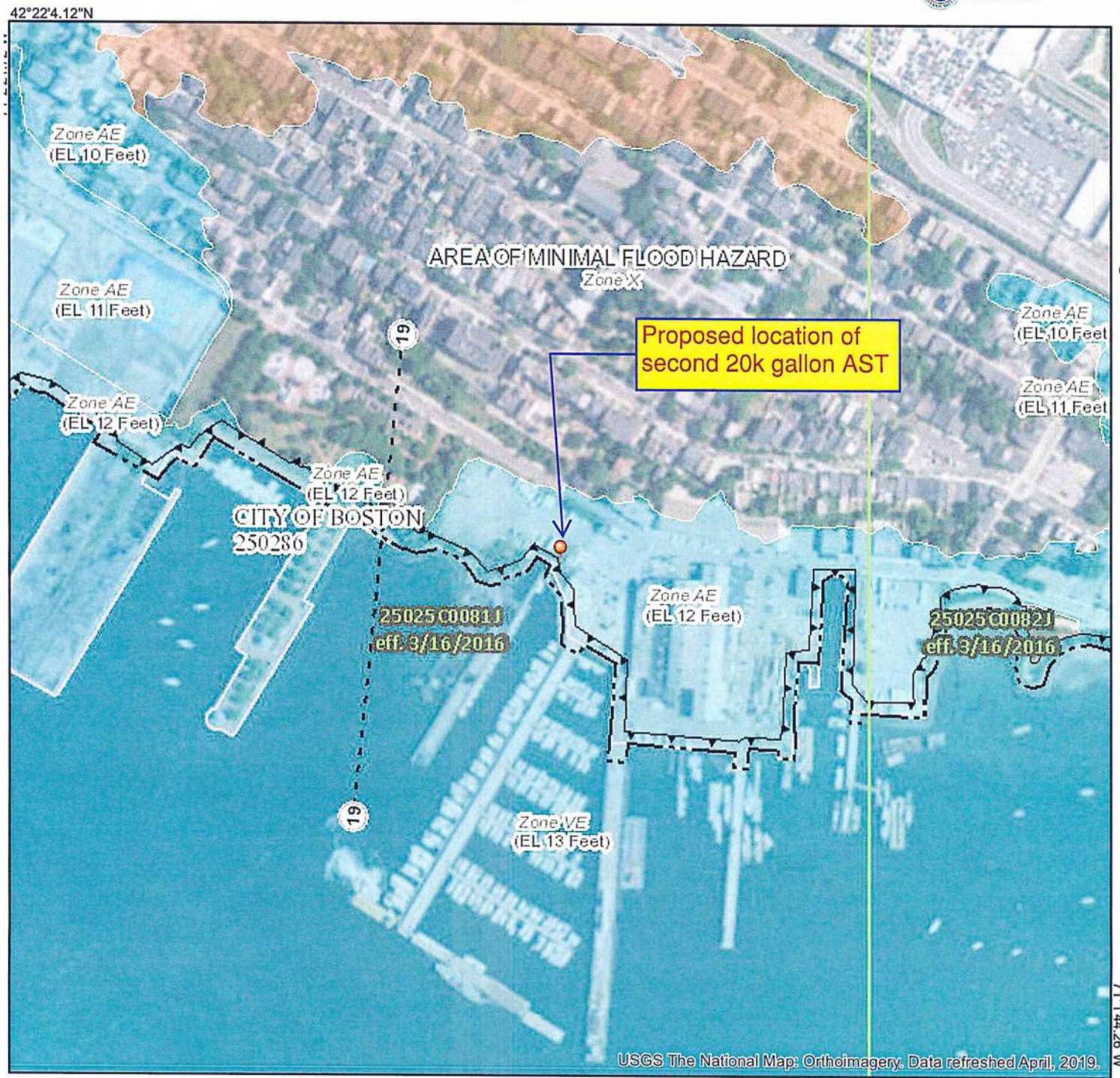
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Water	11.6	39.2%
603	Urban land, wet substratum, 0 to 3 percent slopes	7.5	25.3%
627C	Newport-Urban land complex, 3 to 15 percent slopes	5.4	18.2%
655	Udorthents, wet substratum	5.1	17.2%
Totals for Area of Interest		**29.7**	**100.0%**

FEMA FLOOD INSURANCE RATE MAP

National Flood Hazard Layer FIRMette

FEMA



0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag areas of less than one square mile *Zone*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximat point selected by the user and does not represe an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/20/2019 at 1:21:28 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

ATTACHMENT C

NOTIFICATIONS

ATTACHMENT C: NOTIFICATIONS

The following table outlines abutters of the Project within 100 feet of the property line as gathered from the City of Boston Assessing Department.

Property	Owner	Owner Address	Parcel ID
218-260 Marginal Street	BOSTON MARINE WORKS	256 Marginal Street East Boston, MA 02128	0104443010
233 Marginal Street	BOSTON MARINE WORKS INC	256 Marginal Street East Boston, MA 02128	0104445000
29 Marginal Street	MASSACHUSETTS PORT AUTHORITY	One Harborside Drive Suite 200S East Boston, MA 02128	0104446000
Marginal Street	CITY OF BOSTON	Marginal Street East Boston, MA 02128	0104559000; 0104560000; 0104564000; 0104565000; 0104566000; 0104567000; 0104568000; 0104569000; 0104570000
Marginal Street	CITY OF BOSTON BY FCL	Marginal Street East Boston, MA 02128	0104561000; 0104562000; 0104563000
214 Marginal Street	214 MARGINAL STREET LLC	560 Harrison Ave #403 Boston, MA 02118	0104619020
264-280 Marginal Street	BOSTON MARINE WORKS	256 Marginal St East Boston, MA 02128	0104678010
216 R Marginal Street	TWO-16 R MARGINAL ST CONDO	PO Box 1185 Saugus, MA 01906	0104682000
216 R Marginal Street #1	ORI YANKELEV	216R Marginal St # 1 East Boston, MA 02128	0104682002
216 Marginal Street #2	ANNE PARR	216r Marginal St #2 East Boston, MA 02128	0104682004
210 Marginal Street	LYNDE DAMORE	210 Marginal St East Boston, MA 02128	0104684000

Notification to Abutters Under the
Massachusetts Wetlands Protection Act

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

A. The name of the applicant is **Harbor Fuels LLC**. The applicant has filed a Notice of Intent with the Conservation Commission for the municipality of **Boston** seeking permission to remove, till, dredge, or alter an Area Subject to Protection under the Wetlands Protection Act (General Laws Chapter 131, section 40).

B. The address of the lot where the activity is proposed is **256 Marginal Street, East Boston, Massachusetts 02128.**

C. Copies of the notice of Intent may be examined at **Boston City Hall** between the hours of **9 AM and 5 PM** on the following days of the weeks: **Monday through Friday.** For more information, call Boston City Hall at **(617) 635-3850.**

D. Copies of the Notice of Intent may be obtained from the applicant's representative by calling this telephone number (**617) 357-7044 x 207** between the hours of **9 AM and 5 PM** on the following days of the week: **Monday through Friday**

E. Information regarding the date, time, and place of the public hearing may be obtained from **Boston Conservation Commission** by calling this telephone number: **(617) 635-4416** between the hours of and on the following days of the week: **9 AM to 5 PM, Monday through Friday.**

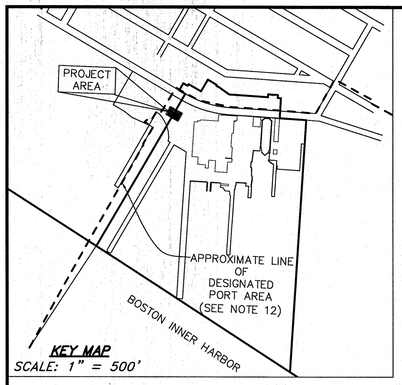
NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the **Boston Herald.**

NOTE: Notice of the public hearing, including its date, tine, and place, will be posted in the City or Town Hall not less than forty-eight (48) hours in advance.

NOTE: You also may contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call: the Northeast Region: (978) 694-3200.

ATTACHMENT D

PLANS



KEY MAP
SCALE: 1" = 500'

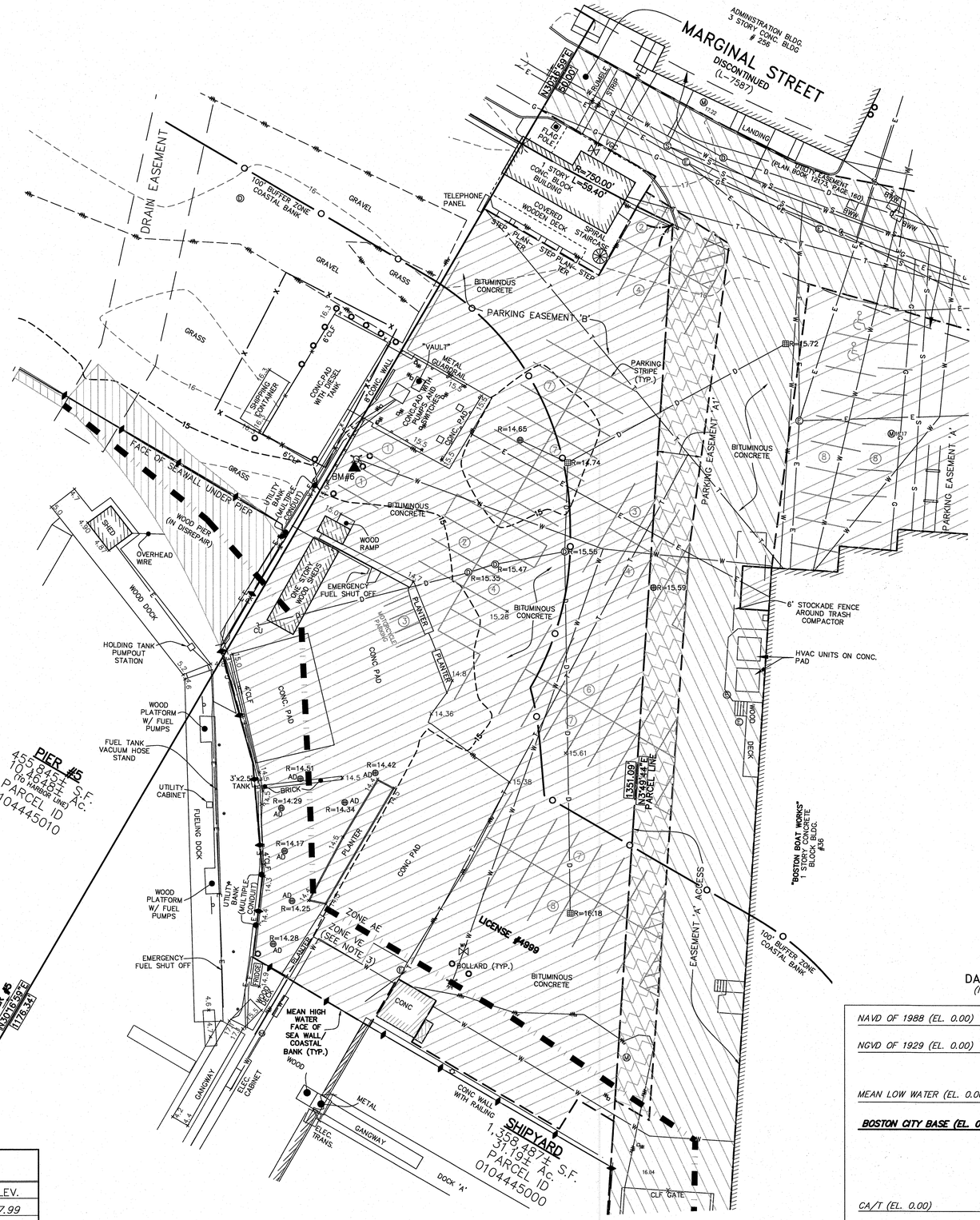
LEGEND

- LIMIT OF 100-FOOT BUFFER ZONE
- MEAN HIGH WATER/FACE OF SEAWALL/ COASTAL BANK
- EDGE OF PAVEMENT
- S — UNDERGROUND SEWER LINES
- D — UNDERGROUND DRAIN LINES
- G — UNDERGROUND GAS LINES
- W — UNDERGROUND WATER LINES
- F — FUEL LINES
- E — ELECTRIC MANHOLE & UNDERGROUND ELECTRIC LINES
- T — TELEPHONE MANHOLE & UNDERGROUND TELEPHONE LINES
- × 100.7 — SPOT ELEVATION
- SMH — SEWER MANHOLE
- DMH — DRAIN MANHOLE
- CB — CATCH BASIN
- RCB — ROUND CATCH BASIN
- AD — AREA DRAIN
- BIT. CONC. — BITUMINOUS CONCRETE
- (3) — PARKING COUNT
- BOLLARD

RECIPROCAL EASEMENT LEGEND

(SEE DEED BOOK 40061, PAGE 70)

- ACCESS EASEMENT 'A'
- PARKING EASEMENT 'A' & BACK & FORTH BOAT STORAGE
- PARKING EASEMENT 'A1'
- PARKING EASEMENT 'B'



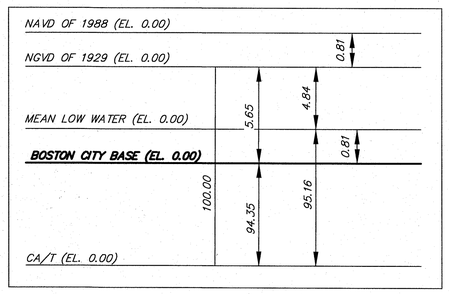
ELEVATION BENCH MARKS

DATUM: *BOSTON CITY BASE*

NO.	DESCRIPTION	ELEV.
6.	*HYDRANT – FRONT LEFT BOLT OVER MAIN*	*17.99*
7.		
8.		

DATUM SKETCH

(NOT TO SCALE)



SCALE: 1" = 20'

0 20 40 80

MERIDIAN FROM STATE PLANE COORDINATE SYSTEM (NAD 83)

ASSESSORS:

PARCEL ID 0104445000 & 010445010

REFERENCES:

- –DEED BOOK 40061, PAGE 70 (RECIPROCAL EASEMENT)
- –DEED BOOK 5967, PAGE 38 (RIGHTS TO MAINTAIN UTILITIES IN DISCONTINUED PORTION OF MARGINAL STREET)
- –DEED BOOK 5990, PAGE 101 (RIGHTS TO MAINTAIN UTILITIES IN DISCONTINUED PORTION OF MARGINAL STREET)
- –DEED BOOK 46664, PAGE 9 (ACTIVITY AND USE LIMITATION)
- –PLAN RECORDED WITH PLAN BOOK 12173, PAGE 160
- –PLAN RECORDED IN DEED BOOK 406, END
- –L.C.DOC# 38351 (SHIPYARD)
- –L.C.C. 622A (SHIPYARD)
- –UNRECORDED PLAN ENTITLED, "EAST BOSTON SHIPYARD, #1 ALNA PLACE SEWER SERVICE OVER LAND OF MASSPORT, EAST BOSTON, MA," DATED JANUARY 31, 2003, PREPARED BY MASSACHUSETTS PORT AUTHORITY.
- –PLAN L–7587 (LAYOUT OF MARGINAL STREET)
- –UNRECORDED PLAN ENTITLED, "BOSTON HARBOR, SHOWING THE LIMITS OF THE PORT OF BOSTON AUTHORITY, ACTS OF 1945, CHAPTER 619, DATED JULY 14, 1949, PREPARED BY THE COMMONWEALTH OF MASSACHUSETTS PORT OF BOSTON AUTHORITY."
- – UNRECORDED PLAN ENTITLED, "EAST BOSTON PROPERTIES, SHIPYARD PARCEL & MARINA PARCEL, LEASE PLAN OF LAND, MARGINAL STREET, EAST BOSTON (SUFFOLK COUNTY), MA, DATED 3/10/04, PREPARED BY MASSPORT SURVEY UNIT."

RECORD OWNER:

MASSACHUSETTS PORT AUTHORITY (MASSPORT)

NOTES:

1) ELEVATIONS SHOWN HEREON REFER TO BOSTON CITY BASE DATUM. PROJECT SOURCE BENCHMARK IS AN ALUMINUM CENTRAL ARTERY AND TUNNEL PROJECT (CA/T) DISK #526 SET IN A GRANITE CURB AT THE END OF JEFFERIES POINT WALKWAY ACROSS FROM THE MAVERICK STREET GATE TO LOGAN AIRPORT. THE ELEVATION OF THE DISK IS 109.84 ON THE CENTRAL ARTERY AND TUNNEL PROJECT DATUM, WHICH IS 9.84 ON NGVD 29 AND 15.49 ON BCB. FOR CONVERSIONS SEE DATUM SKETCH.

2) UNDERGROUND UTILITIES SHOWN HEREON ARE COMPILED FROM FIELD LOCATIONS OF STRUCTURES AND FROM AVAILABLE RECORD INFORMATION ON FILE AT BOSTON WATER AND SEWER, M.W.R.A. AND AND UTILITY COMPANIES. OTHER UNDERGROUND UTILITIES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER AND THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF PROPOSED WORK AND TO CONTACT "DIG–SAFE" BY DIALING 811 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.

3) FLOOD ZONE AE SHOWN HEREON WAS COMPILED FROM FEMA MAP NUMBER 25025C0081J AS REVISED TO MARCH 16, 2016. THE SUBJECT PROPERTY IS LOCATED WITHIN ZONE AE ELEVATION 12 NAVD (18.46 BCB). THE PROPERTY IS ALSO SUBJECT TO FEMA FLOOD ZONE VE, ELEVATION 13 NAVD (19.46 BCB).

4) HISTORICALLY, SITE CONTAINED UNDERGROUND FUEL LINES. SAID LINES HAVE BEEN ABANDONED AND SOME HAVE BEEN REMOVED. NO INFORMATION WAS PROVIDED AS TO THE LOCATIONS OF SAID FUEL LINES.

5) THE DISCONTINUED PORTION OF MARGINAL STREET IS SUBJECT TO ALL RIGHTS OF THE CITY OF BOSTON TO LAY AND MAINTAIN SEWER AND WATER LINES AND ALL RIGHTS OF OTHER PUBLIC UTILITY COMPANIES DEPICTED IN DEED BOOK 5967, PAGE 38 AND DEED BOOK 5990, PAGE 101.

6) UNDERGROUND SALT WATER LINES, COMPRESSED AIR LINES, STEAM LINES, AND SOME WATER LINES SHOWN HEREON WERE SCALED FROM SITE PLANS PROVIDED BY SEA CHAIN, LLC.

7) PROPERTY IS SUBJECT TO A NOTICE OF ACTIVITY AND USE LIMITATION AS DEPICTED ON PLAN 233 OF 2010 AND DESCRIBED IN DEED BOOK 46664, PAGE 7. DEPICTED HEREON APPROXIMATELY AND NOT IN ITS ENTIRETY.

8) LINE OF 100 FOOT BUFFER COASTAL BANK DEPICTED HEREON DERIVED FROM OFFSET TO EXISTING SEA WALLS.

9) PROPERTY IS SUBJECT TO LICENSES.

10) MEAN LOW WATER IS PUBLISHED AS ELEVATION 0.35' NAVD88 AND MEAN HIGH WATER IS PUBLISHED AS ELEVATION 9.84' NAVD88. SAID ELEVATIONS ARE LISTED FROM NOAA TIDES AND CURRENTS FOR STATION 8443970 (BOSTON, MA), TIDAL PERIOD 1983–2001. FOR CONVERSIONS SEE DATUM SKETCH.

11) THE EXISTENCE OF TIDAL FLATS WAS NOT OBSERVED UNDER PIER AT THE TIME OF SURVEY.

12) DESIGNATED PORT AREA SHOWN HEREON SCALED FROM THE MASSACHUSETTS OFFICE OF COASTAL ZONE MANAGEMENT "EAST BOSTON DESIGNATED PORT AREA (DPA)" MAP

#256 MARGINAL STREET

Boston (East Boston)
Massachusetts 02128

PREPARED FOR:

BOSTON HARBOR SHIPYARD & MARINA

256 Marginal Street
Boston, Massachusetts 02128

HANCOCK ASSOCIATES

Civil Engineers

Land Surveyors

Wetland Scientists

185 CENTRE STREET, DANVERS, MA 01923
VOICE (978) 777–3050, FAX (978) 774–7816
WWW.HANCOCKASSOCIATES.COM

COMMONWEALTH OF MASSACHUSETTS
JASON A. ELLIS
No. 49052
REGISTERED LAND SURVEYOR

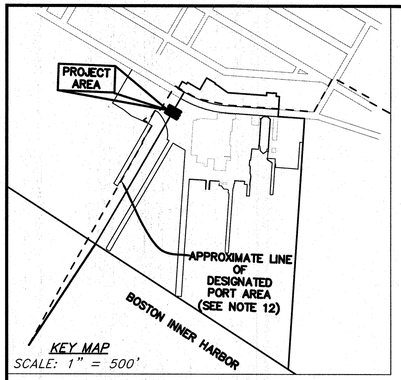
NO.	BY	APP	DATE	ISSUE/REVISION DESCRIPTION

DATE: 7/25/2019 | DRAWN BY: PLP/AAF
SCALE: 1" = 20' | CHECK BY: PLP/JAE

PARTIAL EXISTING CONDITIONS PLAN OF LAND IN BOSTON, MA

PLOT DATE: Jul 25, 2019 1:55 pm
PATH: F:\Civil 3D Projects\22485 – Boston Harbor – Boston\DWG\

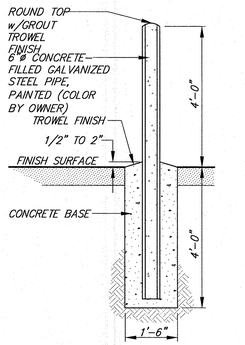
DWG: 22485EC.dwg
LAYOUT: EC
SHEET: 1 OF 1
PROJECT NO.: 22485



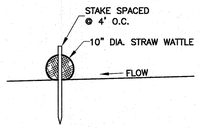
KEY MAP
SCALE: 1" = 500'

LEGEND

——o——	LIMIT OF 100-FOOT BUFFER ZONE
——♦——	MEAN HIGH WATER/FACE OF SEAWALL/ COASTAL BANK
——^^——	EDGE OF PAVEMENT
——S——	UNDERGROUND SEWER LINES
——D——	UNDERGROUND DRAIN LINES
——G——	UNDERGROUND GAS LINES
——W——	UNDERGROUND WATER LINES
——F——	FUEL LINES
——E——	ELECTRIC MANHOLE & UNDERGROUND ELECTRIC LINES
——T——	TELEPHONE MANHOLE & UNDERGROUND TELEPHONE LINES
× 100.7	SPOT ELEVATION
SMH (S)	SEWER MANHOLE
DMH (D)	DRAIN MANHOLE
CB	CATCH BASIN
RCB	ROUND CATCH BASIN
AD	AREA DRAIN
BIT. CONC.	BITUMINOUS CONCRETE
(3)	PARKING COUNT
o	BOLLARD

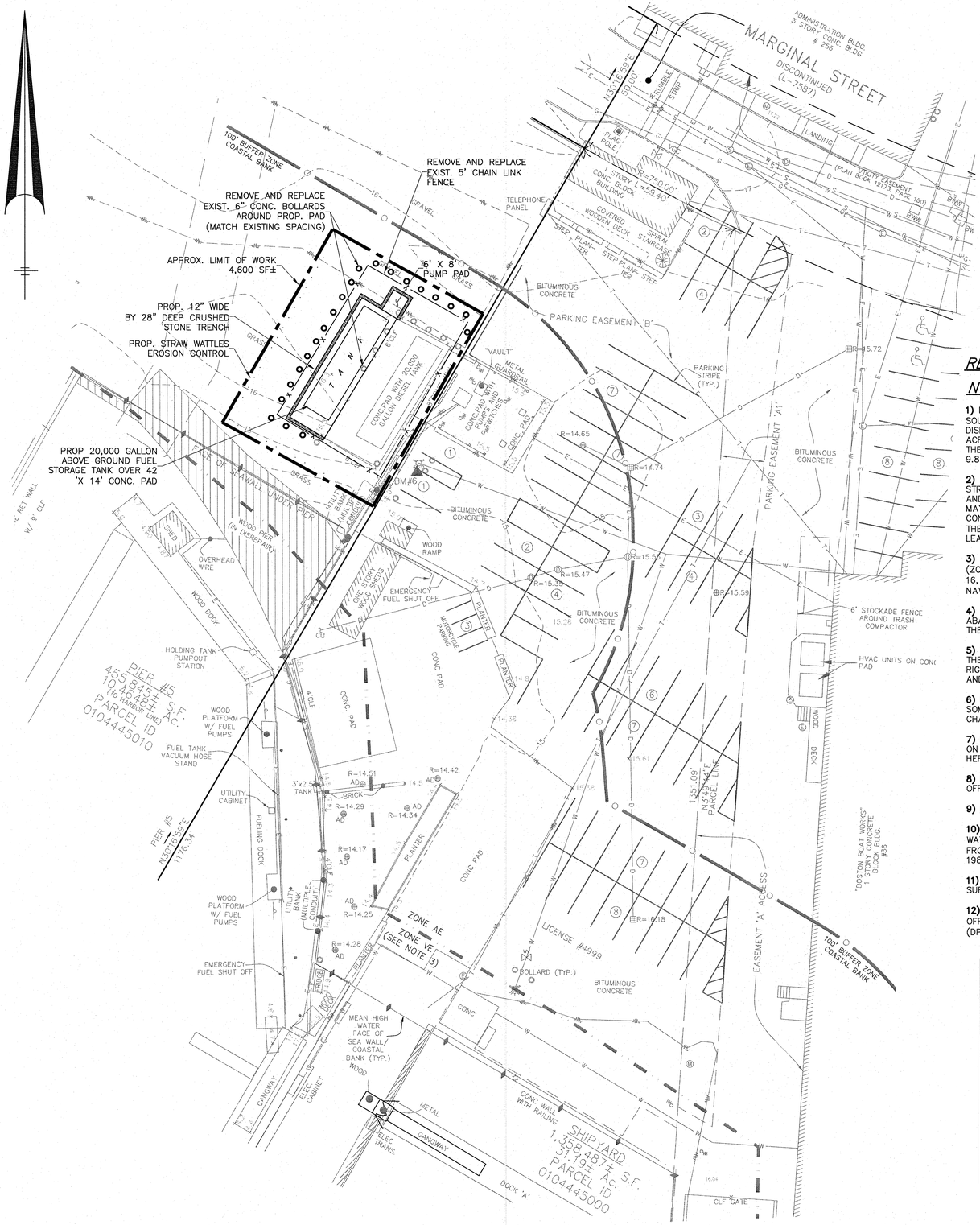


CONCRETE BOLLARD
(NOT TO SCALE)



STRAW WATTLES SEDIMENTATION CONTROL
(NOT TO SCALE)

MERIDIAN FROM STATE PLANE COORDINATE SYSTEM (NAD 83)



	ELEVATION BENCH MARKS DATUM: *BOSTON CITY BASE*	
NO.	DESCRIPTION	ELEV.
6.	*HYDRANT – FRONT LEFT BOLT OVER MAIN*	*17.99*

ASSESSORS: *PARCEL ID 0104445000 & 010445010*

REFERENCES:
- –DEED BOOK 40061, PAGE 70 (RECIPROCAL EASEMENT)
- –DEED BOOK 5967, PAGE 38 (RIGHTS TO MAINTAIN UTILITIES IN DISCONTINUED PORTION OF MARGINAL STREET)
- –DEED BOOK 5990, PAGE 101 (RIGHTS TO MAINTAIN UTILITIES IN DISCONTINUED PORTION OF MARGINAL STREET)
- –DEED BOOK 46664, PAGE 9 (ACTIVITY AND USE LIMITATION)
- –PLAN RECORDED WITH PLAN BOOK 12173, PAGE 160
- –PLAN RECORDED IN DEED BOOK 406, END
- –L.C.DOC# 38351 (SHIPYARD)
- –L.C.C. 622A (SHIPYARD)
- –UNRECORDED PLAN ENTITLED, "EAST BOSTON SHIPYARD, #1 ALNA PLACE SEWER SERVICE OVER LAND OF MASSPORT, EAST BOSTON, MA," DATED JANUARY 31, 2003, PREPARED BY MASSACHUSETTS PORT AUTHORITY.
- –PLAN L–7587 (LAYOUT OF MARGINAL STREET)
- –UNRECORDED PLAN ENTITLED, "BOSTON HARBOR, SHOWING THE LIMITS OF THE PORT OF BOSTON AUTHORITY, ACTS OF 1945, CHAPTER 619, DATED JULY 14, 1949, PREPARED BY THE COMMONWEALTH OF MASSACHUSETTS PORT OF BOSTON AUTHORITY."
- – UNRECORDED PLAN ENTITLED, "EAST BOSTON PROPERTIES, SHIPYARD PARCEL & MARINA PARCEL, LEASE PLAN OF LAND, MARGINAL STREET, EAST BOSTON (SUFFOLK COUNTY), MA, DATED 3/10/04, PREPARED BY MASSPORT SURVEY UNIT."

RECORD OWNER: *MASSACHUSETTS PORT AUTHORITY (MASSPORT)*

NOTES:

1) ELEVATIONS SHOWN HEREON REFER TO BOSTON CITY BASE DATUM. PROJECT SOURCE BENCHMARK IS AN ALUMINUM CENTRAL ARTERY AND TUNNEL PROJECT (CA/T) DISK #526 SET IN A GRANITE CURB AT THE END OF JEFFERIES POINT WALKWAY ACROSS FROM THE MAVERICK STREET GATE TO LOGAN AIRPORT. THE ELEVATION OF THE DISK IS 109.84 ON THE CENTRAL ARTERY AND TUNNEL PROJECT DATUM, WHICH IS 9.84 ON NGVD 29 AND 15.49 ON BCB. FOR CONVERSIONS SEE DATUM SKETCH.

2) UNDERGROUND UTILITIES SHOWN HEREON ARE COMPILED FROM FIELD LOCATIONS OF STRUCTURES AND FROM AVAILABLE RECORD INFORMATION ON FILE AT BOSTON WATER AND SEWER, M.W.R.A. AND AND UTILITY COMPANIES. OTHER UNDERGROUND UTILITIES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER AND THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF PROPOSED WORK AND TO CONTACT "DIG–SAFE" BY DIALING 811 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.

3) PORTIONS OF THE SUBJECT PREMISES ARE LOCATED WITHIN FLOOD HAZARD ZONES (ZONES AE AND VE) AS DELINEATED ON MAP NO. 25025C0081J AS REVISED TO MARCH 16, 2016 BY F.E.M.A. ZONE AE ELEVATION 12 NAVD (18.46 BCB). VE, ELEVATION 13 NAVD (19.46 BCB).

4) HISTORICALLY, SITE CONTAINED UNDERGROUND FUEL LINES. SAID LINES HAVE BEEN ABANDONED AND SOME HAVE BEEN REMOVED. NO INFORMATION WAS PROVIDED AS TO THE LOCATIONS OF SAID FUEL LINES.

5) THE DISCONTINUED PORTION OF MARGINAL STREET IS SUBJECT TO ALL RIGHTS OF THE CITY OF BOSTON TO LAY AND MAINTAIN SEWER AND WATER LINES AND ALL RIGHTS OF OTHER PUBLIC UTILITY COMPANIES DEPICTED IN DEED BOOK 5967, PAGE 38 AND DEED BOOK 5990, PAGE 101.

6) UNDERGROUND SALT WATER LINES, COMPRESSED AIR LINES, STEAM LINES, AND SOME WATER LINES SHOWN HEREON WERE SCALED FROM SITE PLANS PROVIDED BY SEA CHAIN, LLC.

7) PROPERTY IS SUBJECT TO A NOTICE OF ACTIVITY AND USE LIMITATION AS DEPICTED ON PLAN 233 OF 2010 AND DESCRIBED IN DEED BOOK 46664, PAGE 7. DEPICTED HEREON APPROXIMATELY AND NOT IN ITS ENTIRETY.

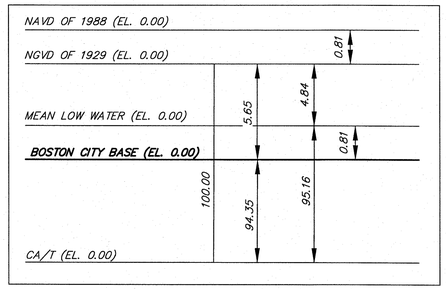
8) LINE OF 100 FOOT BUFFER COASTAL BANK DEPICTED HEREON DERIVED FROM OFFSET TO EXISTING SEA WALLS.

9) PROPERTY IS SUBJECT TO LICENSES.

10) MEAN LOW WATER IS PUBLISHED AS ELEVATION 0.35' NAVD88 AND MEAN HIGH WATER IS PUBLISHED AS ELEVATION 9.84' NAVD88. SAID ELEVATIONS ARE LISTED FROM NOAA TIDES AND CURRENTS FOR STATION 8443970 (BOSTON, MA), TIDAL PERIOD 1983–2001. FOR CONVERSIONS SEE DATUM SKETCH.

11) THE EXISTENCE OF TIDAL FLATS WAS NOT OBSERVED UNDER PIER AT THE TIME OF SURVEY.

12) DESIGNATED PORT AREA SHOWN HEREON SCALED FROM THE MASSACHUSETTS OFFICE OF COASTAL ZONE MANAGEMENT "EAST BOSTON DESIGNATED PORT AREA (DPA)" MAP



DATUM SKETCH
(NOT TO SCALE)

SCALE: 1" = 20'
0 20 40 80

#256 MARGINAL STREET

Boston (East Boston)
Massachusetts 02128

PREPARED FOR:

BOSTON HARBOR SHIPYARD & MARINA

256 Marginal Street
Boston, Massachusetts 02128

HANCOCK ASSOCIATES

Civil Engineers

Land Surveyors

Wetland Scientists

185 CENTRE STREET, DANVERS, MA 01923
VOICE (978) 777–3050, FAX (978) 774–7816
WWW.HANCOCKASSOCIATES.COM

COMMONWEALTH OF MASSACHUSETTS
ANTHONY DONATO
CIVIL
No. 40706
REGISTERED PROFESSIONAL ENGINEER
7/25/19

NO.	BY	APP	DATE	ISSUE/REVISION DESCRIPTION
1	AD		7/25/19	Added VE/AE line

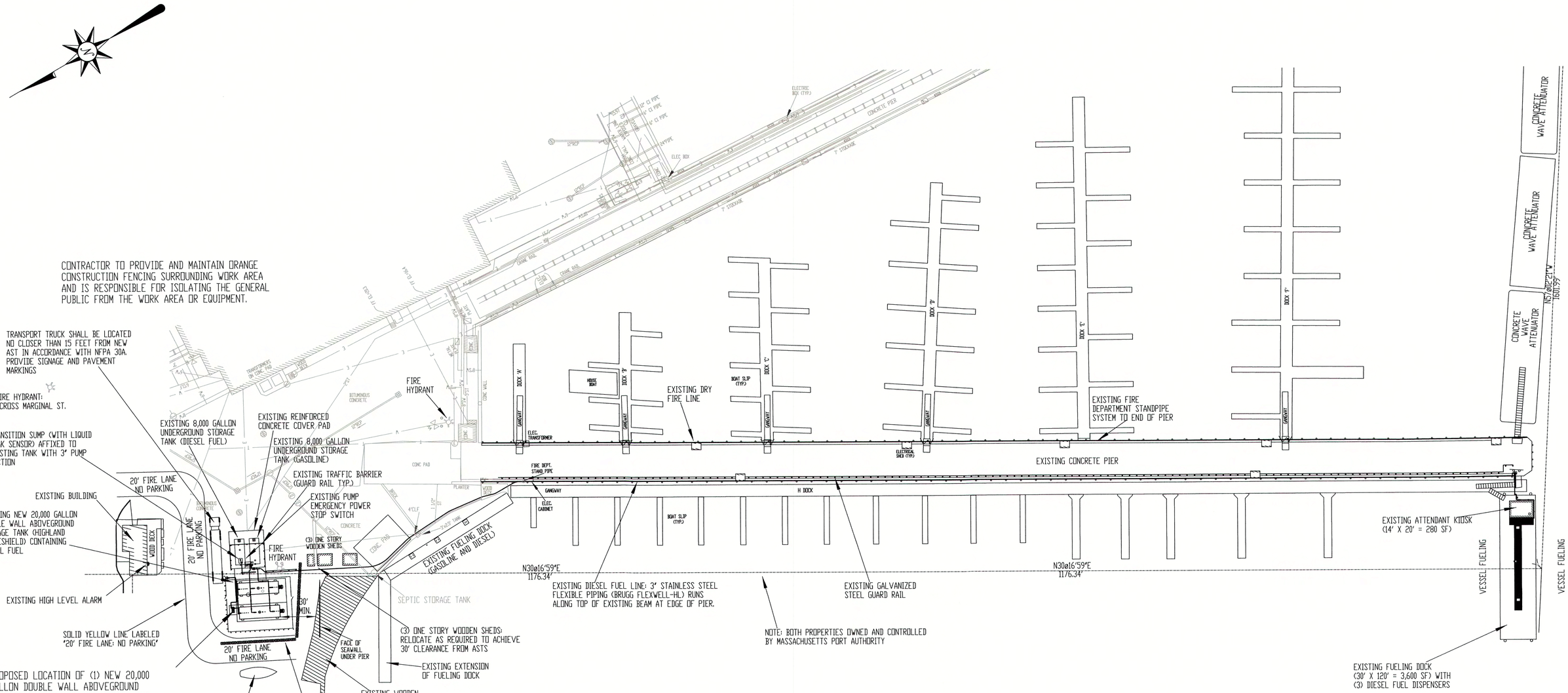
DATE: 7/9/2019 DRAWN BY: DPR
SCALE: 1" = 20' CHECK BY: AD

SITE PLAN

BOSTON, MA

PLOT DATE: Jul 25, 2019 2:57 pm
PATH:U:\x2_vol1\Civil 3D Projects\22485 – Boston Harbor – Boston\DWG\

DWG: 22485site.dwg
LAYOUT: Site Plan
SHEET: 1 OF 1
PROJECT NO.: 22485



DRAWING LIST:

A-1 SITE PLAN - PROPOSED MODIFICATIONS
A-2 LIMITED SITE PLAN - ELEVATIONS AND CONTOURS
M-1 PIPING / MECHANICAL
M-2 DETAILS
M-3 20,000 GALLON ABOVEGROUND STORAGE TANK
S-1 CONCRETE

TANK LIGHTNING PROTECTION AND BONDING NOTES:
1) (2) GROUNDING RODS: (1/2" X 10' SOLID COPPER GROUND ROD) TO BE LOCATED AT OPPOSITE CORNERS OF TANK PAD.
2) SPILL CONTAINMENT CABINET, ABOVEGROUND STORAGE TANKS, AND ALL CONCRETE REINFORCING TO BE INCLUDED IN GROUNDING GRID.
3) PROVIDE TANKER TRUCK GROUNDING CABLE.
4) ALL CONNECTIONS TO BE MADE WITH NUMBER 2 BARE STRANDED COPPER WIRE (CAD WELDED OR EQUAL).

GENERAL NOTES:
1) NEW TANK TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH UL 142.
2) ALL CONSTRUCTION TO MEET OR EXCEED:
   A) NFPA 30 "FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE" - 2015 ED.
   B) NFPA 30A "CODE FOR MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES" - 2015 ED.
   C) NFPA 1 "FIRE CODE" - 2015 ED.
   D) 527 CMR 1.00 "MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE"
   E) NATIONAL ELECTRICAL CODE
3) ELECTRICAL CLASSIFICATION: CLASS I, DIV 1/2 HAZARDOUS CLASSIFICATION IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE UNLESS OTHERWISE NOTED.
4) ALL STRUCTURES TO MEET OR EXCEED THE LATEST REVISION OF AISC AND A58 SPECIFICATIONS.
5) ALL STRUCTURES TO MEET OR EXCEED MASSACHUSETTS BUILDING CODES.
6) PIPING AND VENTING TO MEET OR EXCEED ASME B31 "PRESSURE PIPING CODE" AND API 2000 FOR "VENTING ATMOSPHERIC AND LOW PRESSURE STORAGE TANKS."
7) NEW TANK TO BE EQUIPPED WITH INVENTORY CONTROL MONITOR WITH HIGH LEVEL ALARM SET AT 90% CAPACITY. AUDIBLE/VISIBLE HIGH LEVEL ALARM TO HAVE ACKNOWLEDGE SWITCH TIE INTO EXISTING SYSTEM.
8) INVENTORY MONITOR TO PROVIDE OFFLOADING PUMP SHUTOFF SET AT 95% CAPACITY USING RELAY.
9) BOTH TANKS TO BE EQUIPPED WITH OVERFILL PREVENTION VALVES SET AT 95% CAPACITY.
10) ALL PIPING TO HAVE PRESSURE RELIEF AROUND ALL FLOW BLOCKING DEVICES (TO RELIEVE BACK TO ABOVEGROUND TANKS.
11) NEW TANK TO BE LABELED FOR CONTENTS USING 2" MIN. LETTERING (COLOR TO CONTRAST TANK COLOR) AND WITH THE DOT FIRE RATING SYSTEM SYMBOL.
12) NEW TANK TO BE LABELED WITH MAXIMUM FILL HEIGHT IN PLAIN VIEW OF OFFLOADING OPERATIONS.
13) ALL EQUIPMENT AND PIPING LARGER THAN 1" TO BE ABOVE GRADE, WELDED AND FLANGED. PIPING 1" AND LESS TO BE SOCKET WELDED OR STAINLESS STEEL TUBING WITH COMPRESSION FITTINGS.

MASSPORT PERMIT REQUIREMENTS:
1) CONTRACTOR TO SECURE NECESSARY HOT WORK PERMITS PRIOR TO CONDUCTING ANY WELDING, AS WELL AS ANY FIRE EXTINGUISHERS REQUIRED BY MASSPORT FIRE AND RESCUE.
2) CONTRACTOR TO PROVIDE EMERGENCY CONTACT COMPANY TELEPHONE NUMBERS ON APPROPRIATE MASSPORT FORM.
3) CONTRACTOR TO PROVIDE RESULTS OF ALL CERTIFICATIONS, INSPECTIONS, AND APPROVALS, INCLUDING ELECTRICAL, STRUCTURAL, AND MECHANICAL.

NOTE: NO CONSTRUCTION MAY TAKE PLACE UNLESS DRAWINGS CONTAIN CERTIFICATION BY A PROFESSIONAL ENGINEER.

THIS DRAWING TAKEN FROM A PLAN OF LAND BY HANCOCK SURVEY ASSOCIATES, INC. OF DANVERS, MASSACHUSETTS, DATED JANUARY 20, 2004 AND SHOULD NOT BE USED FOR THE DETERMINATION OF PROPERTY LINES, METES, BOUNDS, ETC.

REV. 3/1/19 JAS - CHANGES BASED ON FEBRUARY 26, 2019 MASSPORT PRE-CONSTRUCTION MEETING

COMMONWEALTH OF MASSACHUSETTS
ROBERT P. COLUCCIO
CHEMICAL
NO. 41274
REGISTERED
PROFESSIONAL ENGINEER
3/1/19

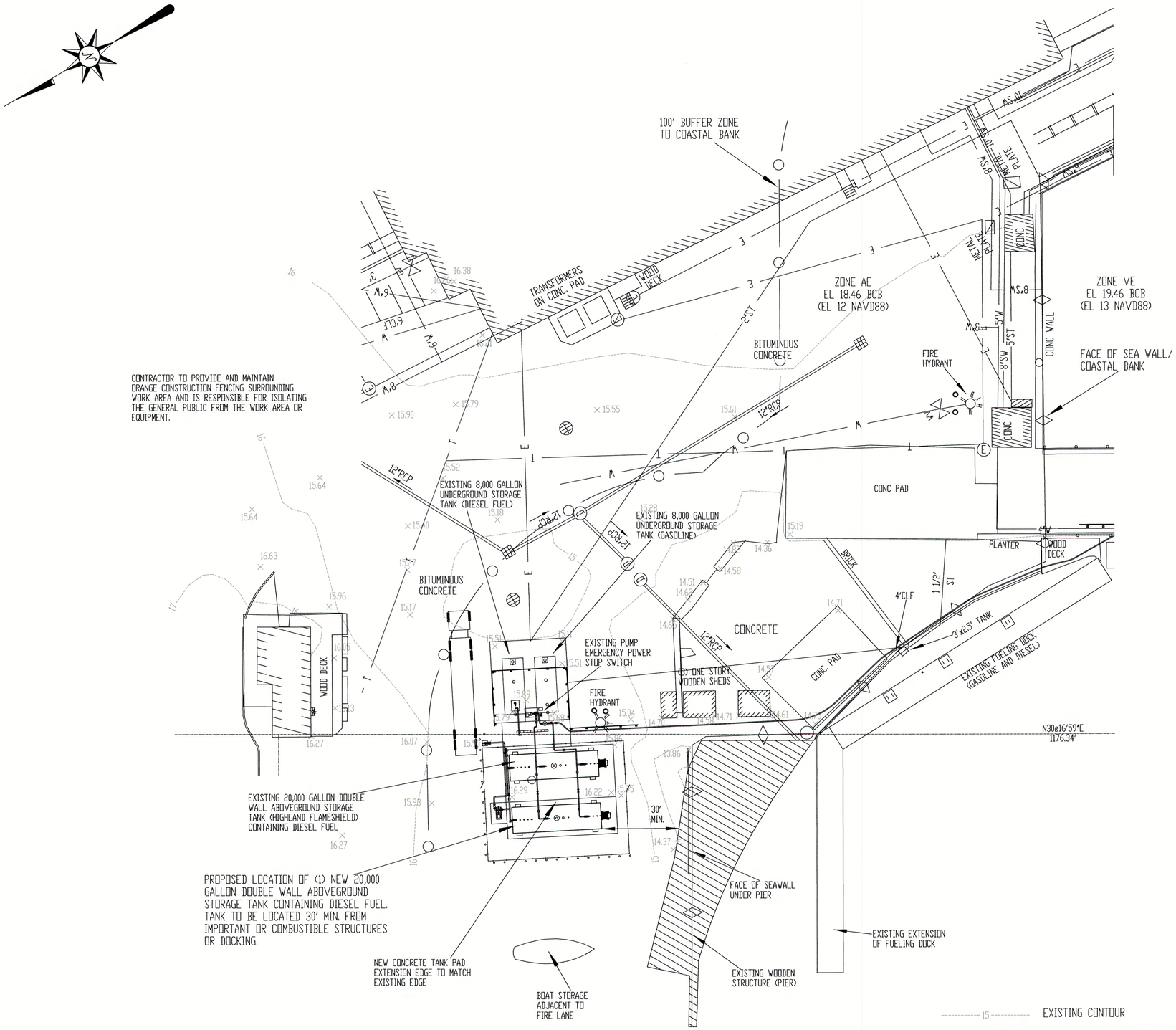
WEB ENGINEERING ASSOCIATES, INC.
111 SUMMER STREET, SCITUATE, MA 02066

DATE: 9/6/18
SCALE: 1" = 40'
FILE: PROPOSED A
WEB ENGINEERING DRAWING NUMBER 1864
DRAWN BY: JAS
JOB #: 18-E-041

HARBOR FUELS
MARGINAL STREET, EAST BOSTON, MASSACHUSETTS

SITE PLAN - PROPOSED MODIFICATIONS

DRAWING No: A-1



100 YEAR FLOOD ELEVATION IS EL. 18.46 BCB (12 NAVD 88)

EXISTING SPOT ELEVATIONS SHOWN HEREON REFER TO BOSTON CITY BASE DATUM (BCB)

REFER TO PLAN OF LAND, DATED JULY 9, 2019, BY HANCOCK SURVEY ASSOCIATES, INC. OF DANVERS, MASSACHUSETTS FOR EROSION CONTROL MEASURES.

THIS DRAWING TAKEN FROM A PLAN OF LAND BY HANCOCK SURVEY ASSOCIATES, INC. OF DANVERS, MASSACHUSETTS, DATED JANUARY 20, 2004 AND SHOULD NOT BE USED FOR THE DETERMINATION OF PROPERTY LINES, METES, BOUNDS, ELEVATIONS, ETC.

EXISTING SPOT ELEVATIONS AND CONTOURS TAKEN FROM AN EXISTING CONDITIONS PLAN OF LAND BY HANCOCK SURVEY ASSOCIATES, INC. OF DANVERS, MASSACHUSETTS, DATED JUNE 7, 2017.

COMMONWEALTH OF MASSACHUSETTS
ROBERT P. COLUCCIO CHEMICAL NO. 41274
REGISTERED PROFESSIONAL ENGINEER
9/23/19

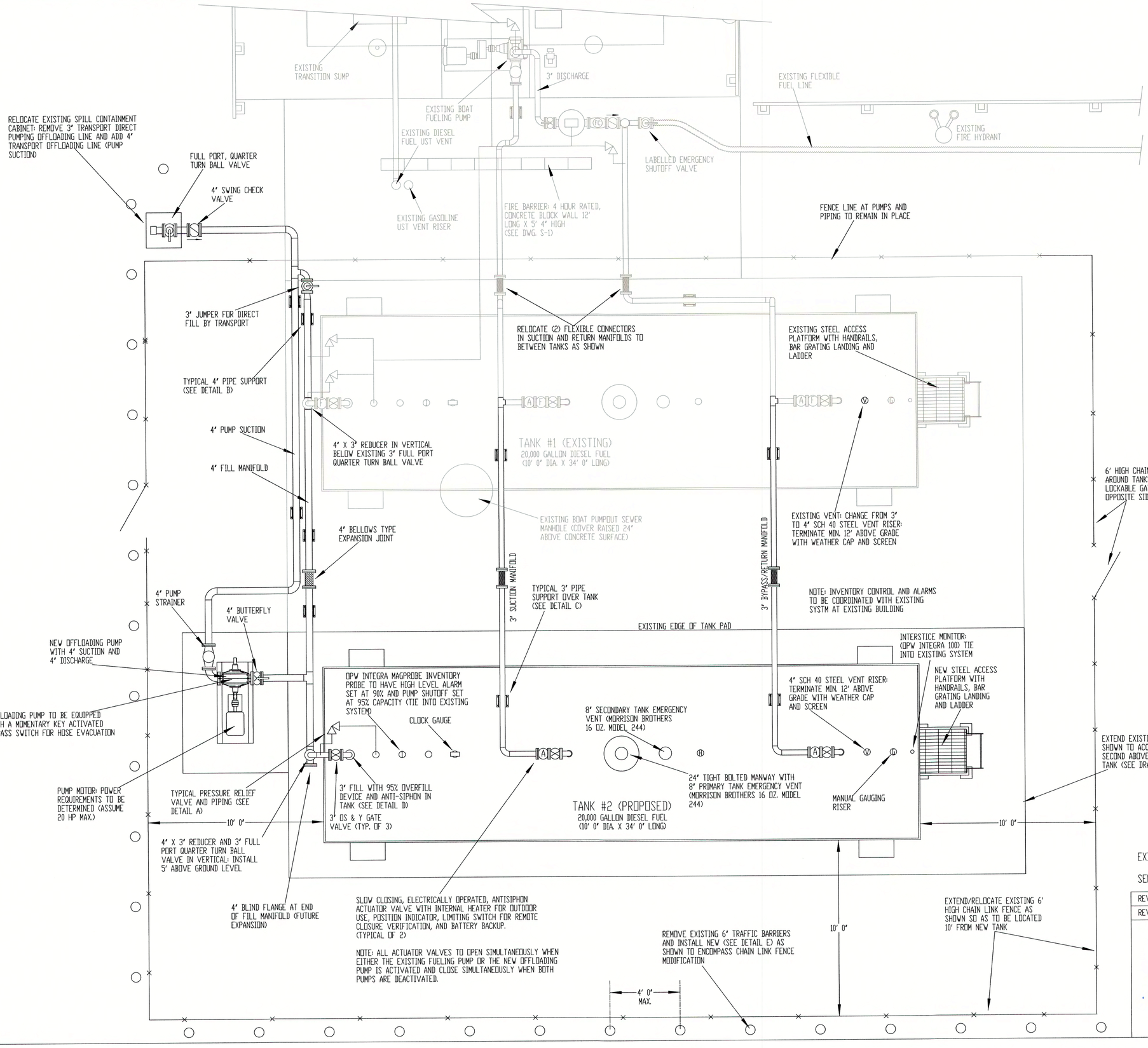
WEB ENGINEERING ASSOCIATES, INC.
111 SUMMER STREET, SCITUATE, MA 02066

DATE: 9/6/18	FILE: CONTOURS AND SPOTS B WEB ENGINEERING DRAWING NUMBER 1913	DRAWN BY: JAS
SCALE: 1" = 20'		JOB #: 18-E-041

HARBOR FUELS
MARGINAL STREET, EAST BOSTON, MASSACHUSETTS

LIMITED SITE PLAN - ELEVATIONS AND CONTOURS

DRAWING No: A-2



DOT DIAMOND PER MASSPORT FIRE AND RESCUE REQUIREMENTS

TANK #2 - MARINE DIESEL FUEL
MAX. FILL HEIGHT: 101-1/4"

TANK #1 - MARINE DIESEL FUEL
MAX. FILL HEIGHT: 101-1/4"

TANK SIGNAGE

TANK LABELS

SIGNAGE AND LABELS TYPICAL FOR (4) SIDES OF TANKS

NOTE: WEATHERPROOF "NO SMOKING" SIGNS (WHITE BLOCK LETTERS NOT LESS THAN ONE INCH IN HEIGHT ON A RED BACKGROUND) TO BE POSTED ON (4) SIDES OF TANKS AND PUMP AREA

NOTE: ABOVEGROUND STORAGE TANKS AND UNDERGROUND STORAGE TANKS TO NOT BE CONNECTED BY ANY PIPING

INVENTORY CONTROL AND ALARMS TO BE COORDINATED WITH EXISTING SYSTM AT EXISTING BUILDING

TESTING NOTES:

1) ALL PIPING TO BE TESTED PNEUMATICALLY TO 50 PSI MIN. FOR 1 HOUR. SOAP ALL JOINTS.
2) IN LIEU OF HYDROSTATIC TEST AND IN ACCORDANCE WITH 502 CMR 5.00 AND NFPA 30, NEW DOUBLE WALLED TANK TO BE DELIVERED FROM FACTORY WITH VACUUM APPLIED TO INTERSTICE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
3) WEB ENGINEERING ASSOCIATES AND GZA TO BE GIVEN THREE DAYS NOTICE PRIOR TO ALL TESTING DATES AND BE PROVIDED WITH THE OPPORTUNITY TO WITNESS TESTING.

PAINTING:

ALL CARBON STEEL PIPING, TANKS, AND PIPE SUPPORTS TO BE POWER WIRE BRUSH CLEANED, PRIMED, THEN PAINTED WITH MARINE QUALITY PAINT (COLOR TO MATCH EXISTING).

GENERAL PIPING NOTES:

1) ALL PIPING 1" DIAMETER OR LESS TO BE THREADED CARBON STEEL UNLESS OTHERWISE SPECIFIED.
2) ALL PIPING GREATER THAN 1" DIAMETER TO BE SCH 40 CARBON STEEL FLANGED AND BUTT WELDED ANSI B 31.3 SPECIFICATION.
3) ALL VALVES AND FLANGES TO BE CARBON STEEL 150 PSI ANSI STD UNLESS OTHERWISE SPECIFIED.
4) ALL ELBOWS TO BE LONG RADIUS UNLESS OTHERWISE SPECIFIED
5) DISTANCE BETWEEN PIPE SUPPORTS FOR SOLID PIPING NOT TO EXCEED 12' FOR 3" AND 14' FOR 4" PIPING.
6) NUMBER AND LOCATION OF PIPE SUPPORTS AS SHOWN ARE APPROXIMATE. CONTRACTOR MAY USE ADDITIONAL SUPPORTS AS NEEDED.

EXISTING SHOWN IN GRAY

SEE DRAWING M-2 FOR REFERENCED DETAILS

REV. 3/1/19 JAS - CHANGES BASED ON FEBRUARY 26, 2019 MASSPORT PRE-CONSTRUCTION MEETING

REV. 1/15/19 JAS - UPDATE PIPING

COMMONWEALTH OF MASSACHUSETTS
ROBERT P. COLUCCIO
CHEMICAL
NO. 41274
REGISTERED PROFESSIONAL ENGINEER

7/23/19

WEB ENGINEERING ASSOCIATES, INC.
111 SUMMER STREET, SCITUATE, MA 02061

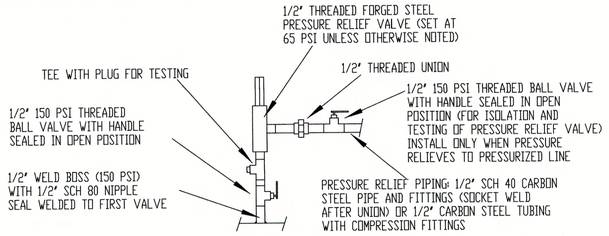
DATE: 9/6/18	FILE: PIPING D WEB ENGINEERING DRAWING NUMBER 1865	DRAWN BY: JAS
SCALE: 3/8" = 1'		JOB #: 18-E-041

HARBOR FUELS
MARGINAL STREET, EAST BOSTON, MASSACHUSETTS

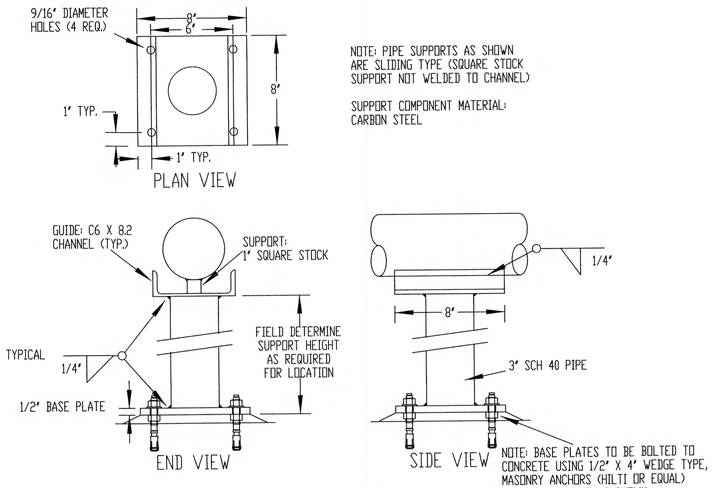
PIPING / MECHANICAL

DRAWING No: M-1

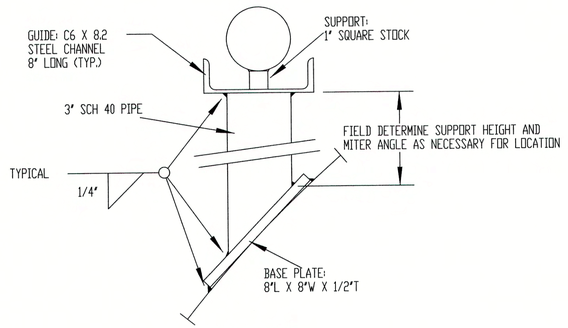
NOTE: PRESSURE RELIEF AND AIR ELIMINATOR PIPING TO BE FABRICATED BY CONTRACTOR USING BEST ROUTES AND SUPPORTED USING BEST METHODS.



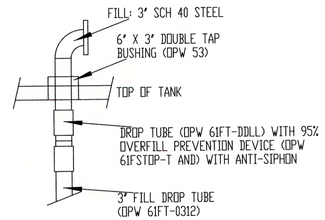
DETAIL A
PRESSURE RELIEF VALVE AND PIPING DETAILS
NOT TO SCALE



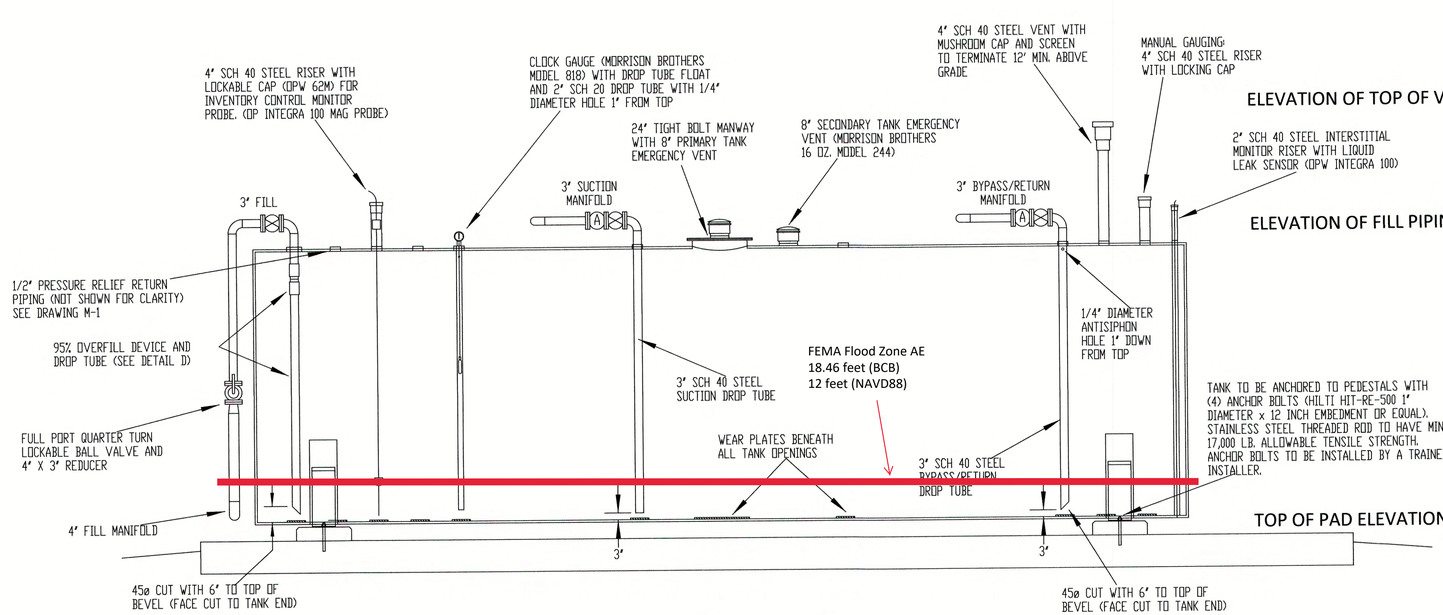
DETAIL B
2" & 3" PIPE SUPPORTS
NOT TO SCALE



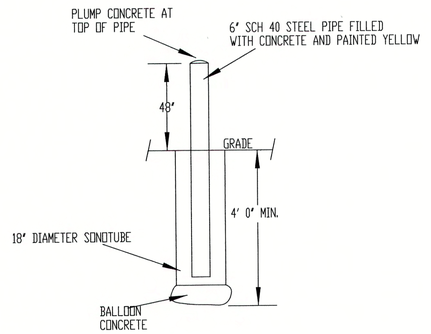
DETAIL C
3" PIPE SUPPORT OVER TANK
NOT TO SCALE



DETAIL D
FILL AT TANK (TYP. OF 2)
NOT TO SCALE



TANK ELEVATION VIEW



DETAIL E
TRAFFIC BARRIER
NOT TO SCALE

ROBERT P. COLUCCIO CHEMICAL NO. 41274 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
7/23/19

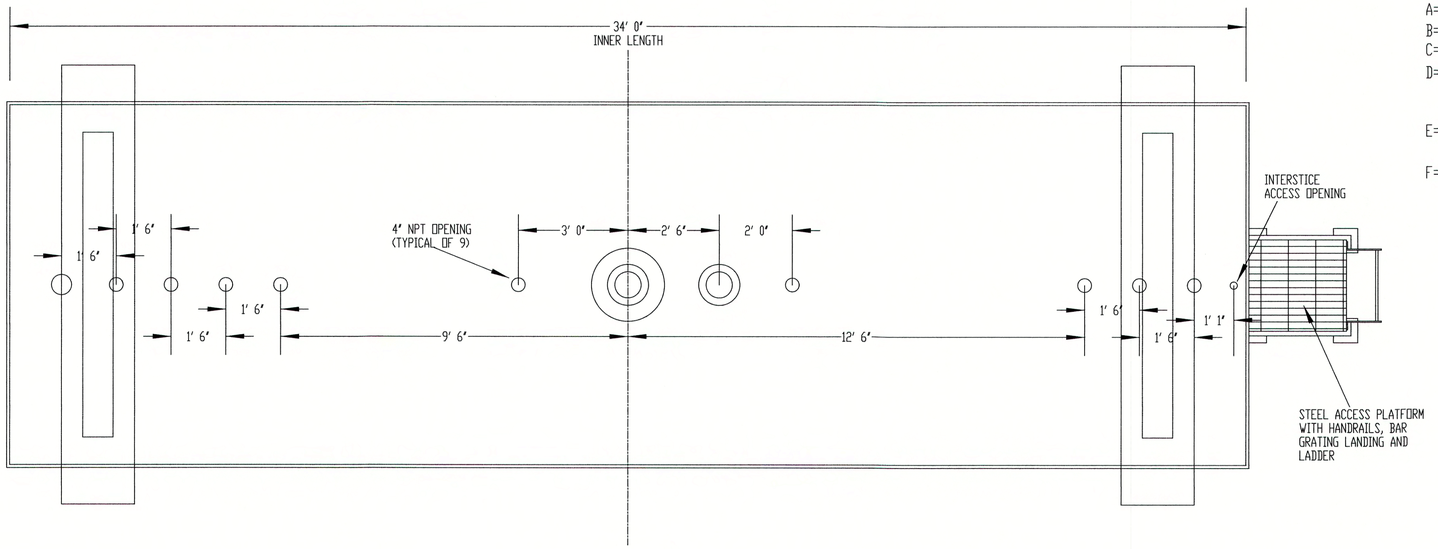
WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

DATE: 9/6/18	FILE: DETAILS A WEB ENGINEERING DRAWING NUMBER 1866	DRAWN BY: JAS
SCALE: 3/8" = 1'		JOB #: 18-E-041

HARBOR FUELS
MARGINAL STREET, EAST BOSTON, MASSACHUSETTS

DETAILS

DRAWING No: M-2



PLAN VIEW

FITTING SCHEDULE

A= 4"o NPT

B= 24"o TIGHT BOLT MANHOLE

C= 2"o NPT (FITTING FOR LEAK DETECTION)

D= 8" FFSO 150# FLANGE THROUGH OUTER SHELL ONLY, MARK WITH SPECIAL WARNING LABEL INTERSTITIAL EMERGENCY VENT USE ONLY

E= 8" FFSO 150# FLANGE - PRIMARY EMERGENCY VENT USE ONLY

F= 6"o NPT

GENERAL NOTES

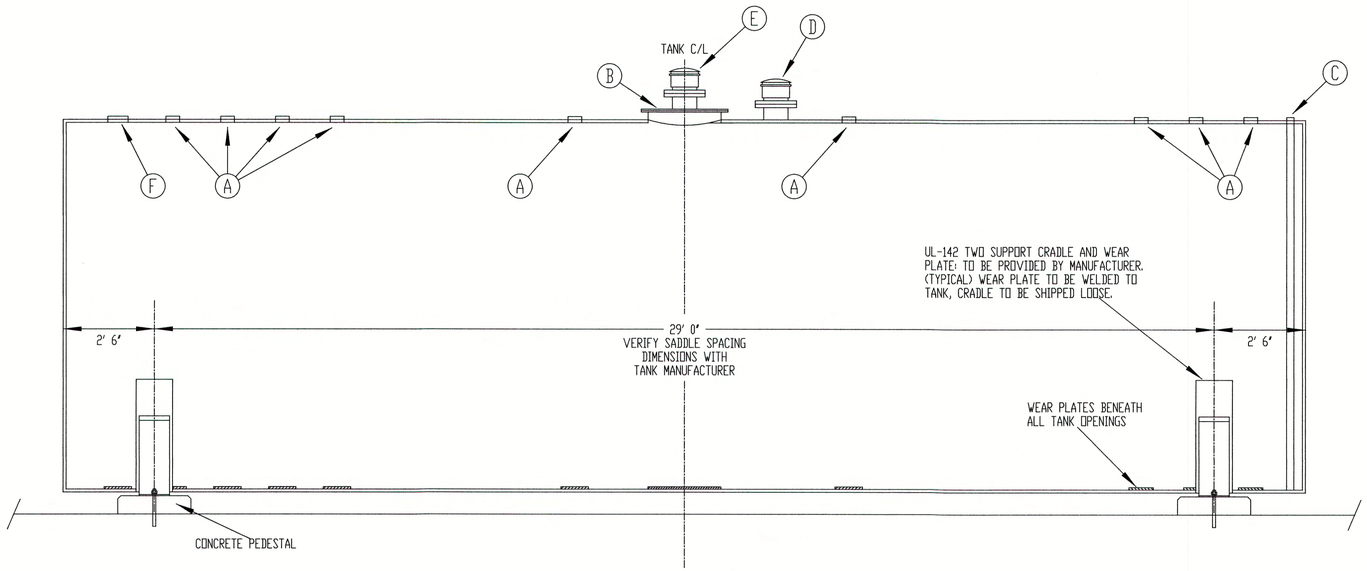
CAPACITY : 20,000 GALLONS
TYPE: DOUBLE WALL, ABOVEGROUND HORIZONTAL
NO. REQ. : 1
MATERIAL : MILD CARBON STEEL
TEST : 5 P.S.I.
MIN. GAUGE OR THICKNESS (PER U.L. 142):

INNER HEADS : 5/16" OUTER HEADS : 7 GA.
INNER SHELL : 1/4" OUTER SHELL : 7 GA.

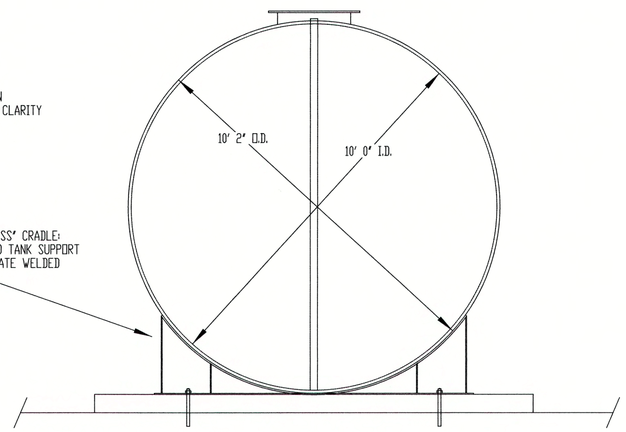
INTERIOR : NONE
EXTERIOR : SP6 BLAST, FINISH PAINT WHITE

CONSTRUCTION : FLAT FLANGED HEADS, LAP WELD ALL EXTERIOR SEAMS ONLY
APPROVED LABELS : U.L. 142
OPERATING PRESSURE- ATMOSPHERIC

NOTE: TANK TO BE DELIVERED WITH FACTORY APPLIED VACUUM TO TANK INTERSTICE



SIDE VIEW



END VIEW

REV. 3/1/19 JAS - CHANGES BASED ON FEBRUARY 26, 2019 MASSPORT PRE-CONSTRUCTION MEETING

COMMONWEALTH OF MASSACHUSETTS
ROBERT P. COLUCCIO
CHEMICAL
NO. 41274
REGISTERED
PROFESSIONAL ENGINEER

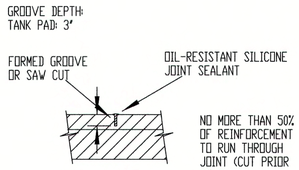
WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

DATE: 6/6/18	FILE: 20K 10FT DW TANK WEB ENGINEERING DRAWING NUMBER 1867	DRAWN BY: JAS
SCALE: 1/2" = 1'		JOB #: 18-E-041

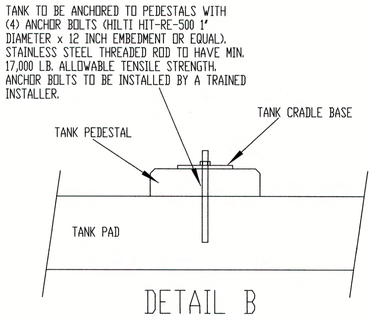
HARBOR FUELS
MARGINAL STREET, EAST BOSTON, MASSACHUSETTS

20,000 GALLON ABOVEGROUND STORAGE TANK

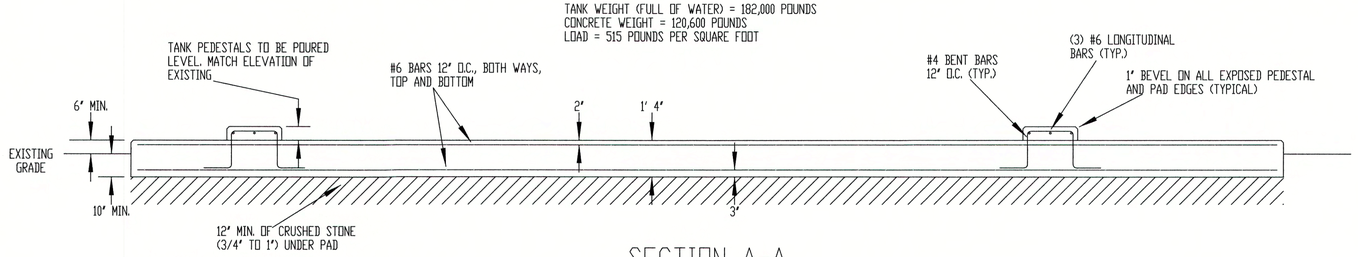
DRAWING No: M-3



DETAIL A
TYPICAL CONTROL JOINT
NOT TO SCALE

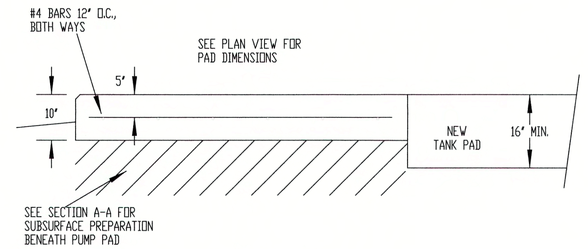


DETAIL B
TANK FASTENING DETAILS
NOT TO SCALE

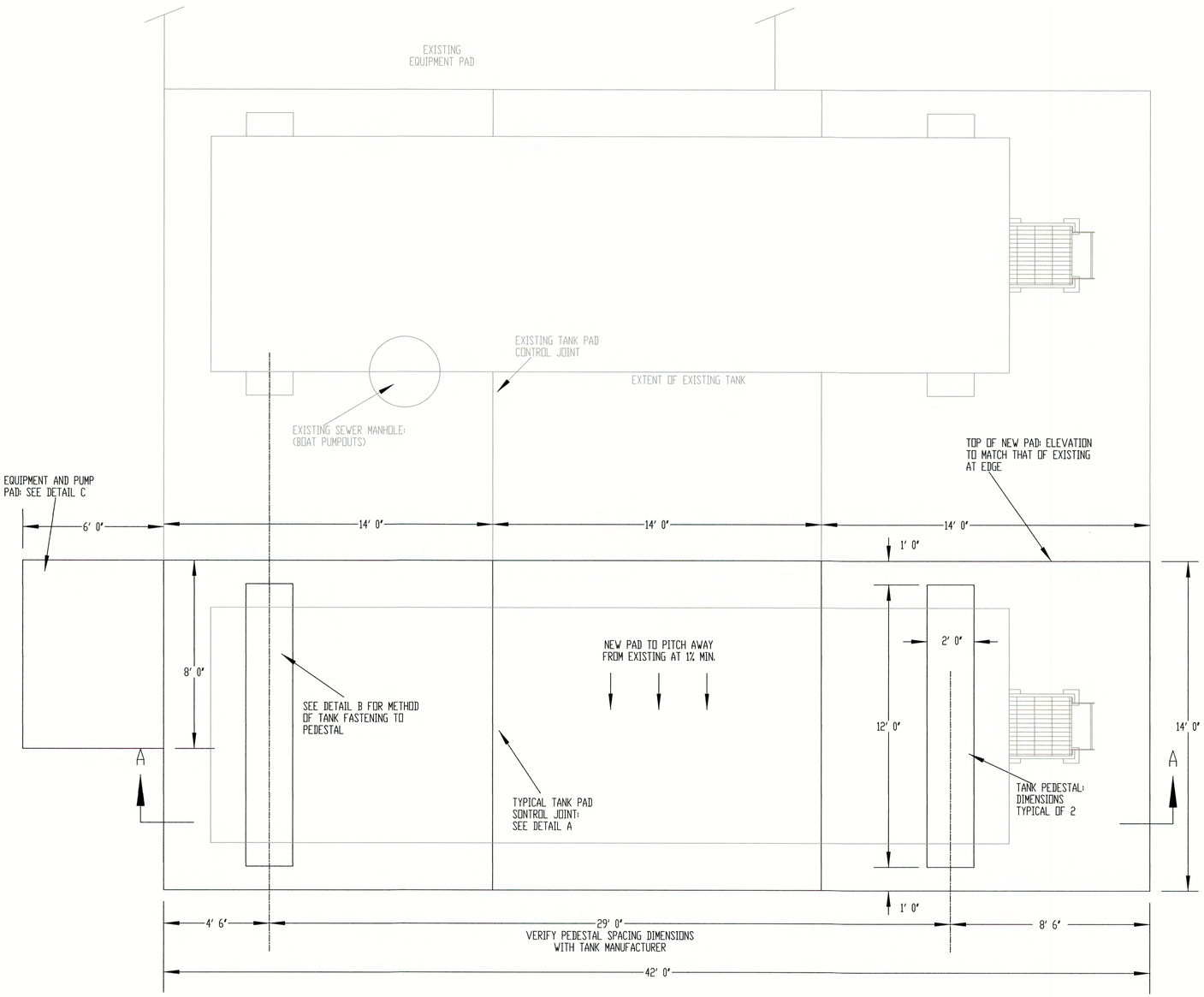


CONTRACTOR TO REMOVE ALL PEAT, ORGANIC, OR OTHERWISE UNSUITABLE MATERIAL DOWN TO CLAY LAYER

SECTION A-A



DETAIL C
EQUIPMENT AND PUMP PAD
NOT TO SCALE



PLAN VIEW

NOTE: TRAFFIC BARRIERS AND CHAIN LINK FENCE AROUND TANK PAD NOT SHOWN FOR CLARITY. SEE DRAWING M-1

GENERAL CONCRETE NOTES:

1) ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE STATE OF MASSACHUSETTS BUILDING CODE AND DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROADS AND BRIDGES CLASS XX AND SECTION M.02.
2) ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT THE END OF 28 DAYS EXCEPT AS NOTED. PROVIDE PROOF OF COMPRESSION THROUGH A MINIMUM OF TWO FIELD SAMPLE CYLINDERS PER CONCRETE POUR. (TEST FIRST AT 7 DAYS AND SECOND AT 28) ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR ENTRAINED. (NOMINAL 6%) ALL PROPOSED CONCRETE MIXES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ALL APPROVED MIX DESIGNS SHALL BE IN STRICT CONFORMANCE TO CHAPTER 4 OF ACI 318. ALL CONCRETE SHALL CONFORM TO ACI 350R CONCRETE SANITARY ENGINEERING STRUCTURES. PROVIDE PROCEDURES FOR CURING CONCRETE TO ENGINEER FOR APPROVAL.
3) ALL REINFORCING STEEL, EXCEPT AS OTHERWISE NOTED, SHALL BE DEFORMED BARS CONFORMING TO ASTM DESIGNATION A615 GRADE 60.
4) BASED ON A TEST PIT DONE IN 2013, SUBSURFACE SOILS CONSIST OF MEDIUM DENSE CLAY AND SILT. ACCORDING TO MASSACHUSETTS BUILDING CODE, MAXIMUM ALLOWABLE NET BEARING PRESSURE FOR MEDIUM DENSE CLAY IS 2,000 PSF. ACTUAL LOAD = 515 PSF. EXCAVATION SHALL BE CARRIED DOWN TO UNDISTURBED MATERIAL. SETTLEMENT ANALYSIS TO BE PERFORMED BY GEOTECHNICAL ENGINEER AFTER SUBSURFACE PREPARATION IS COMPLETE.
5) IF REQUIRED, CONTRACTOR SHALL CARRY OUT CONTINUOUS PUMPING OF GROUND WATER UNTIL SUFFICIENT DEAD LOAD HAS ACCUMULATED TO PREVENT FLOTATION OF ANY PART OF THE STRUCTURE.
6) SHOP DRAWINGS, REVIEWED BY THE GENERAL CONTRACTOR, FOR REINFORCING, AND POUR SCHEDULES SHALL BE SUBMITTED TO THE ENGINEER AND A STAMPED APPROVAL RECEIVED BEFORE FABRICATION CAN PROCEED. ERECTION SHALL BE MADE FROM SHOP DRAWINGS ONLY.
7) ALL TYPES OF SLABS AND BEAMS SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS.
8) CONSTRUCTION JOINTS MAY NOT BE ADDED, EXCEPT WITH THE APPROVAL OF AN ENGINEER.
9) ALL REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI MANUAL AS AMENDED TO DATE.
10) WHERE CONTINUOUS BARS ARE CALLED FOR, INDICATED, OR REQUIRED, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES, SPLICES STAGGERED WHEREVER POSSIBLE, AND HOOKED AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B
11) PROVIDE AND SCHEDULE WITH REBAR PLACEMENT SHOP DRAWINGS, ACCESSORIES TO HOLD THE REINFORCING PER ACI 318 CODE AND ACI 315 DETAILING MANUAL.
12) CLEARANCE OF MAIN REINFORCING BARS FROM ADJACENT CONCRETE SURFACES SHALL BE:
    A) WHERE UNFORMED FACE OF CONCRETE IS IN CONTACT WITH EARTH, 3"
    B) WHERE FORMED FACE OF CONCRETE IS IN CONTACT WITH EARTH, OR EXPOSED TO WEATHER, 2"
    C) THE MAXIMUM ALLOWABLE DEVIATION FROM THE FIGURES ABOVE, WHEN PLACING REINFORCING IN THE FORMS, SHALL BE 1/4" FOR ALL SHAPES.
13) ALL EXPOSED CONCRETE EDGES TO HAVE 1" CHAMFER
14) ALL CONCRETE TO BE CONTINUOUSLY AND ADEQUATELY VIBRATED DURING PLACEMENT.

NOTE: ENGINEER TO REVIEW SUBSURFACE SOILS, STEEL REINFORCEMENT, AND FORMS PRIOR TO POURING OF ANY CONCRETE

REV. 3/1/19 JAS - CHANGES BASED ON FEBRUARY 26, 2019 MASSPORT PRE-CONSTRUCTION MEETING	
REV. 1/15/19 JAS - UPDATE BASED ON MASSPORT REVIEW	
WEB ENGINEERING ASSOCIATES, INC. 111 SUMMER STREET, SCITUATE, MA 02066	
DATE: 9/6/18	FILE: CONCRETE WEB ENGINEERING DRAWING NUMBER 1868
SCALE: 3/8" = 1'	DRAWN BY: JAS JOB #: 18-E-041
HARBOR FUELS MARGINAL STREET, EAST BOSTON, MASSACHUSETTS	
CONCRETE	DRAWING No: S-1

COMMONWEALTH OF MASSACHUSETTS
ROBERT P. COLUCCIO
CHEMICAL
NO. 41274
REGISTERED PROFESSIONAL ENGINEER
7/23/19