



Massachusetts Port Authority  
One Harborside Drive, Suite 200S  
East Boston, MA 02128-2090  
Telephone (617) 568-5950  
www.massport.com

January 16, 2018

Amelia Croteau  
Executive Secretary  
Boston Conservation Commission  
Boston City Hall - Room 709  
Boston, MA 02201

Re: Notice of Intent for Snow Melter Installation  
Logan Airport  
East Boston

Dear Ms. Croteau:

Enclosed please find eight (8) copies of the Notice of Intent (NOI) and project plans associated with the proposed installation of an in ground snow melter unit at Logan Airport. The unit is to be installed adjacent to the Runway Safety Area (RSA) at the west end of Runway 14-32. The proposed work is located within the 100-foot Buffer Zone associated with the Coastal Bank.

The NOI was submitted electronically to the Department of Environmental Protection (DEP) via eDEP, and two (2) copies of the NOI and project plans will be sent to the DEP's Northeast Regional Office. A check in the amount of \$1,500 is being processed by Massport's Accounting Department and will be forwarded to you prior to the hearing.

Please feel free to contact me at (617) 568-3552 should you have any questions or need additional information.

Sincerely,  
MASSACHUSETTS PORT AUTHORITY

A handwritten signature in blue ink that reads "James Stolecki".

James W. Stolecki, P.E.  
Senior Environmental Project Manager

Enclosure

cc: Stephen Flecchia – Massport  
Wael Abdulkader - Stantec



**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 #:

eDEP Transaction #:983011

City/Town:BOSTON

**A.General Information**

**1. Project Location:**

a. Street Address	LOGAN AIRPORT		
b. City/Town	BOSTON	c. Zip Code	02128
d. Latitude	42.36018N	e. Longitude	71.02715W
f. Map/Plat #	N/A	g.Parcel/Lot #	N/A

**2. Applicant:**

Individual  Organization

a. First Name	JAMES	b.Last Name	STOLECKI
c. Organization	MASSACHUSETTS PORT AUTHORITY		
d. Mailing Address	ONE HARBORSIDE DRIVE, SUITE 200S		
e. City/Town	EAST BOSTON	f. State	MA
g. Zip Code	02128	j. Email	jstolecki@massport.com
h. Phone Number	617-568-3552	i. Fax	

**3. Property Owner:**

more than one owner

a. First Name	JAMES	b. Last Name	STOLECKI
c. Organization	MASSACHUSETTS PORT AUTHORITY		
d. Mailing Address	ONE HARBORSIDE DRIVE, SUITE 200S		
e. City/Town	EAST BOSTON	f.State	MA
g. Zip Code	02128	j.Email	jstolecki@massport.com
h. Phone Number	617-568-3552	i. Fax	

**4. Representative:**

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

**5. Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form)**

a.Total Fee Paid	500.00	b.State Fee Paid	237.50	c.City/Town Fee Paid	262.50
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**6. General Project Description:**

**7a. Project Type:**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Single Family Home                | 2. <input type="checkbox"/> Residential Subdivision                  |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial                    |
| 5. <input type="checkbox"/> Dock/Pier                         | 6. <input type="checkbox"/> Utilities                                |
| 7. <input type="checkbox"/> Coastal Engineering Structure     | 8. <input type="checkbox"/> Agriculture (eg., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation                    | 10. <input checked="" type="checkbox"/> Other                        |

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



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1.  Yes  No If yes, describe which limited project applies to this project:  
 2. Limited Project

**8. Property recorded at the Registry of Deeds for:**

**a. County:** SUFFOLK      **b. Certificate:**      **c. Book:** 29055      **d. Page:** 333

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

**1. Buffer Zone & Resource Area Impacts (temporary & permanent):**

This is a Buffer Zone only project - 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)**

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land under Waterbodies and Waterways	1. Square feet	2. square feet
	3. cubic yards dredged	
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if any)	
2. Width of Riverfront Area (check one)	<input type="checkbox"/> 25 ft. - Designated Densely Developed Areas only <input type="checkbox"/> 100 ft. - New agricultural projects only <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No	



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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)**

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

**4. Restoration/Enhancement**

Restoration/Replacement

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 entered the additional amount here.

a. square feet of BVW

b. square feet of Salt Marsh

**5. Projects Involves Stream Crossings**

Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.



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Provided by MassDEP:

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a. number of new stream crossings

b. number of replacement stream crossings

**C. Other Applicable Standards and Requirements**

**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 of Endangered Species program (NHESP)?

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

b. Date of map:AUGUST 2017

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)...

c. Submit Supplemental Information for Endangered Species Review \* (Check boxes as they apply)

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

3.  Project plans for entire project site, including wetland resource areas and areas outside of wetland 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.

c.  MESA filing fee (fee information available at: <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html>)

Make check payable to "Natural Heritage & Endangered Species Fund" 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

d. 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/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14>; 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 Number

b. Date submitted to NHESP



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3.  Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

\* Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

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

a.  Not applicable - project is in inland resource area only

b.  Yes  No

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

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

North Shore - Hull to  
New Hampshire:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
1213 Purchase street - 3rd floor  
New Bedford, MA 02740-6694

Division of Marine  
Fisheries -  
North Shore Office  
Attn: Environmental  
Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930

If yes, it 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.

3. 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 DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. 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

5. 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

6. 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, Explain why the project is exempt:

1.  Single Family Home



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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**

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 by regular mail delivery.

- 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.
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s)).
- 4. 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.

a. Plan Title:	b. Plan Prepared By:	c. Plan Signed/Stamped By:	c. Revised Final Date:	e. Scale:
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CIVIL SITE PLAN - SNOWMELTER 14/32	STANTEC		01/03/2018	
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CIVIL UTILITY DETAILS	STANTEC		01/03/2018	
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SNOW MELTER MECHANICAL DETAILS	STANTEC		01/16/2018	
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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.





**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:

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eDEP Transaction #:983011

City/Town:BOSTON

**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. Payer name on check: First Name	7. Payer name on check: Last Name

**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.

James Stolecki	<i>James Stolecki</i>	1/16/2018
1. Signature of Applicant		2. Date
3. Signature of Property Owner(if different)		4. Date
5. Signature of Representative (if any)		6. Date

**For Conservation Commission:**

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

**For MassDEP:**

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

**Other:**

If the applicant has checked the "yes" box in Section C, Items 1-3, 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  
**WPA Form 3 - Notice of Wetland Fee Transmittal**  
**Form**

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

Provided by MassDEP:  
 MassDEP File #:  
 eDEP Transaction #:983011  
 City/Town:BOSTON

**A. Applicant Information**

**1. Applicant:**

a. First Name JAMES b. Last Name STOLECKI  
 c. Organization MASSACHUSETTS PORT AUTHORITY  
 d. Mailing Address ONE HARBORSIDE DRIVE, SUITE 200S  
 e. City/Town EAST BOSTON f. State MA g. Zip Code 02128  
 h. Phone Number 6175683552 i. Fax j. Email jstolecki@massport.com

**2. Property Owner: (if different)**

a. First Name JAMES b. Last Name STOLECKI  
 c. Organization MASSACHUSETTS PORT AUTHORITY  
 d. Mailing Address ONE HARBORSIDE DRIVE, SUITE 200S  
 e. City/Town EAST BOSTON f. State MA g. Zip Code 02128  
 h. Phone Number 6175683552 i. Fax j. Email jstolecki@massport.com

**3. Project Location:**

a. Street Address LOGAN AIRPORT b. City/Town BOSTON

Are you exempted from Fee?

**Note:** Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than \$100

**B. Fees**

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total
J.) ANY OTHER ACTIVITY NOT IN CATEGORY 1,3,4,5 OR 6;	1	500.00		500.00

City/Town share of filing fee	State share of filing fee	Total Project Fee
\$262.50	\$237.50	\$500.00

## **PROJECT DESCRIPTION**

The proposed project consists of installing an in ground snow melter unit at the southwest corner of Logan Airport as shown on the attached **Project Location Plan**. The proposed unit is to be located adjacent to the Runway Safety Area (RSA) at the west end of Runway 14/32 and will be used primarily to melt snow collected from the RSA which is 1,000 feet in length. The project site is shown in the attached **Project Aerial View**.

The layout of the snow melter unit is shown on the attached **Civil Site Plan (C-108-1)** and details of the unit are shown on the **Snowmelter Mechanical Detail sheet (M-501)**. The snow melting system consists of an open snow melting tank or pit installed underground and equipped with three (3) submerged combustion burners placed inside the melting pit. The burners will be natural gas units. The melting pit must be filled with water before operation of burners. The snow is plowed directly into the pit where it will be melted by the three (3) burners. During snow melting operations the melted water exits the pit through six (6) overflow drains that eventually connect to a trunk stormwater drainage line just outside the pit. The stormwater drainage line is routed to an adjacent twin-structure Water Quality Unit where floating debris and oils are removed and Total Suspended Solids are reduced prior to the water being discharged into the drainage system. The proposed drain line will be connected to an existing 12 ft x 10 ft box culvert that discharges to a permitted stormwater outfall referred to the West Outfall in the Logan Airport NPDES permit. The West Outfall is equipped with a pollution control system that includes a bar screen for collecting floating debris and a skimmer for diverting oils to an oil/water separator. Two sump/hooded catch basins for this project will be installed to collect stormwater near the snow melting unit. The catch basins will be connected to the Water Quality Unit. The details of the catch basins and storm drain manholes are shown on **Civil Utility Details C-504-1**.

## **CONSTRUCTION SEQUENCE**

The order of construction activities shall be as follows:

1. Place silt fence/compost filter sock along the top of slope and within limits of construction activities.
2. Construct temporary stone stabilized pad at each access point from and to the work area to prevent the offsite transport of sediment by construction vehicles.
3. Install sediment collection sacks in all existing catch basins within and in the vicinity of the project area.
4. Install a permanent jersey barrier wall at a distance equal to 15 ft from and parallel to the top of bank.
5. Begin excavation for the snowmelter pit and cement concrete equipment pad.

## PROJECT DESCRIPTION

### Snow Melter Installation

#### Notice of Intent

6. Install support of excavation and drive steel pipe piles into the bottom of excavation. The piles will support the snow melting pit and the equipment pad.  
  
Construct cement concrete pit, cement concrete equipment pad and gas piping pad.
7. Construct utility lines and structures including drain pipes, oil-water separator, water pipe and hydrant, gas pipes, electric and communication ductbanks.
8. Remove support of excavation and backfill excavated areas.
9. Install snow melting assembly including gas, electric and communications system.
10. Install protection bollards around the snow melting unit and gas piping assemblies.
11. Install chain link fence around the workzone.
12. Remove, relocate and re-set the security concrete blast wall to its permanent location.
13. Remove chain link fence.
14. Complete the installation of storm drain line and other utilities.
15. Pave the area surrounding the snow melting system and all utility trenches.
16. Loam and seed loam disturbed areas.
17. Permanently stabilize all areas within the project area.
18. Remove erosion and sedimentation control measures.

### **EROSION AND SEDIMENTATION CONTROLS**

Erosion and sedimentation controls will be incorporated during all phases of the project. Details of the controls are shown on **C-504-1**.

#### Temporary Controls:

1. Contractor shall minimize site disturbance as much as possible during the phasing of the project.
2. Temporary stockpiles of soil materials shall be protected. Areas of stockpiles inactive for more than 14 days will be covered with a polyethylene sheeting.

PROJECT DESCRIPTION  
Snow Melter Installation  
Notice of Intent

3. Silt fence/haybale/compost filter sock or approved equal will be placed at project limits to protect all abutting properties before the start of construction operations and removed following construction and site stabilization.
4. Construct temporary stone stabilized pad at each access point to the work area.
5. Existing catch basins within project limits will be protected with silt sack devices.

**STORMWATER MANAGEMENT STANDARDS**

Massport has reviewed the MassDEP's Stormwater Management Standards, and is providing the information below relative to the project's compliance with the standards.

**Standard 1: Untreated Discharges**

The proposed snow melter will not result in discharging untreated water to the harbor. The discharge from the snow melter will flow through a Water Quality Unit designed to reduce Total Suspended Solids (TSS) and oils. A detail of the **Water Quality Unit (STC 11000s Precast Concrete Stormceptor)** is provided. Onsite catch basins will have sumps and be equipped with "hooded" outlets. Finally, the flows will pass through the pollution control system at the West Outfall prior to discharging to the harbor.

**Standard 2: Peak Control and Flood Prevention**

Because the proposed snow melter discharges to Land Subject to Coastal Storm Flowage, this standard may be waived.

**Standard 3: Recharge to Groundwater**

Due to the nature of the discharge from the snow melter, which will flow at >3 cubic feet per second when operating, it is not feasible to install a system to infiltrate the discharge. In addition, the tidal influence on the groundwater table due to the proximity of the harbor, and the fill soils within the project area, limit the capacity of the area to infiltrate ground water.

**Standard 4: 80% Removal of TSS**

The double-structure Water Quality Unit has been sized to effectively treat the flow and is designed to achieve 50-80% removal of TSS. In addition, the snow to be melted will be removed from the Runway Safety Area where the use of sand and salt is prohibited and the area is kept free of debris and trash.

**Standard 5: Land Uses with Higher Potential Pollutant Loads (LUHPPLs)**

Because the airport has an individual NPDES Permit to discharge stormwater, with effluent limits at the outfalls, it falls under the category of LUHPPLs. The airport implements a comprehensive Stormwater Pollution Prevention Plan with BMPs to address source control and ensure appropriate pollution prevention measures. The Water Quality Unit will effectively remove oil and grease from the snow melter discharge.

PROJECT DESCRIPTION

Snow Melter Installation

Notice of Intent

**Standard 6: Critical Area**

The snow melter will not discharge to a Critical Area as defined by this standard.

**Standard 7: Redevelopment**

The proposed snow melter meets Standards 2 and 3, and the applicable requirements of Standards 4, 5 and 6 to the maximum extent practicable. The project will also result in improved conditions by increasing stormwater treatment prior to discharge to the harbor.

**Standard 8: Erosion and Sedimentation Control**

The project will implement all appropriate erosion and sedimentation controls during construction.

**Standard 9: Operation and Maintenance**

All Water Quality Units at Logan Airport are inspected and cleaned (as needed) twice per year.

**Standard 10: Prohibition of Illicit Discharges**

There will be no illicit discharges to the stormwater management system under this project.

PROJECT LOCATION

Boston Logan International Airport

PROJECT LOCATION





JOINING PANEL 0081

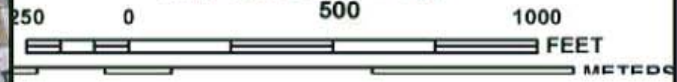
ZONE AE  
(EL 12)

ZONE VE  
(EL 13)

HARBORSIDE DRIVE



MAP SCALE 1" = 500'



NFIP

PANEL 0082J

# FIRM

FLOOD INSURANCE RATE MAP  
SUFFOLK COUNTY,  
MASSACHUSETTS  
(ALL JURISDICTIONS)

PANEL 82 OF 176  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BOSTON, CITY OF	250285	0082	J
WINTHROP, TOWN OF	250289	0082	J

NATIONAL FLOOD INSURANCE PROGRAM

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



**MAP NUMBER**  
25025C0082J  
**MAP REVISED**  
MARCH 16, 2016

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)





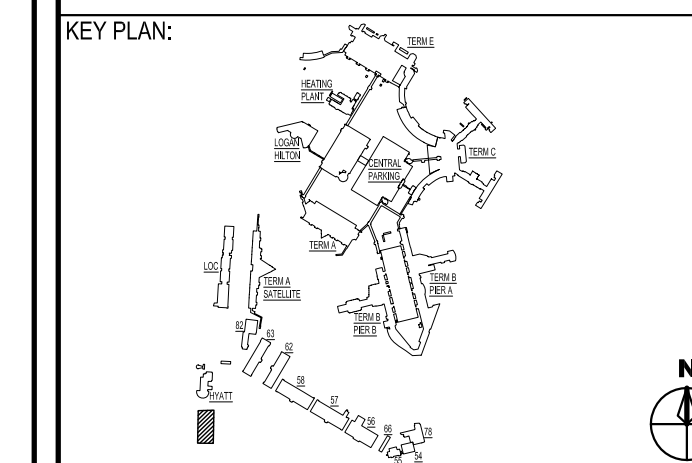
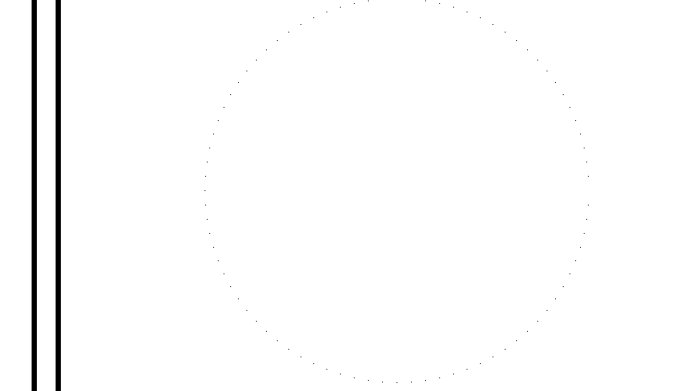
MASSACHUSETTS PORT AUTHORITY  
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:  
LOGAN INTERNATIONAL AIRPORT  
EAST BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: L1281  
LOCATION CODE: 2700

PROJECT SUBMISSION PHASE:  
FOR PERMITTING ONLY

REGISTRATION STAMP:



REVISIONS:

REV NO.	DATE	DESCRIPTION	BY

PRIMARY:

**Stantec**  
5 BURLINGTON WOODS  
BURLINGTON, MA 01803

CONSULTANT:

# DRAFT

PROJECT NUMBER AND TITLE:  
**L1281-C6**  
AIRFIELD WIDE SNOWMELTING  
SYSTEM UPGRADE- PHASE II

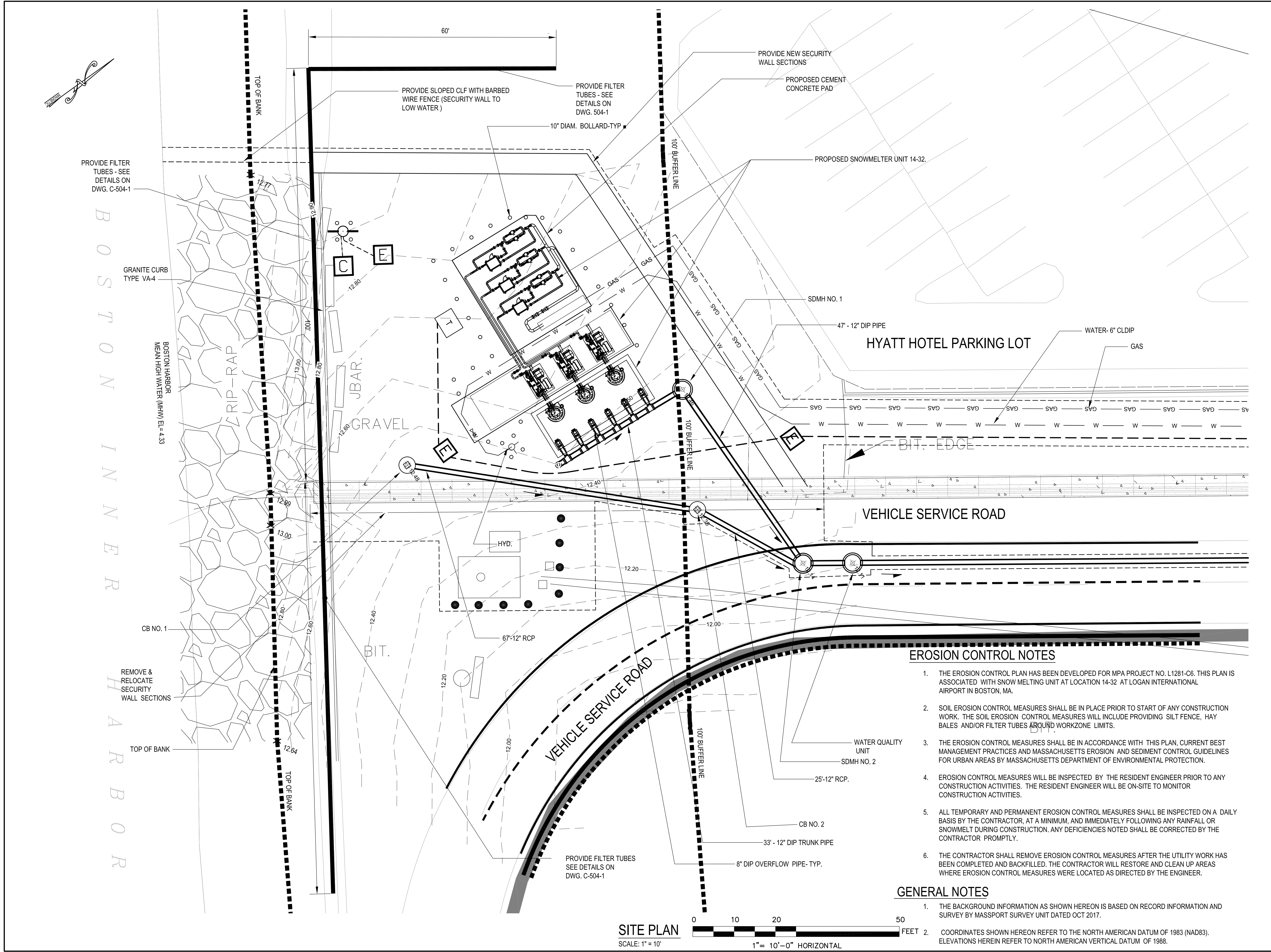
SHEET TITLE:  
CIVIL SITE PLAN - SNOWMELTER  
14-32

DISCIPLINE:  
CIVIL

DRAWN BY: FLC	CHECKED BY: WMA	APPROVED BY: WMA
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SCALE: 1"=10'	DATE: 01/03/2018
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SHEET NUMBER:  
**C-108-1**  
SHEET 1 OF 2

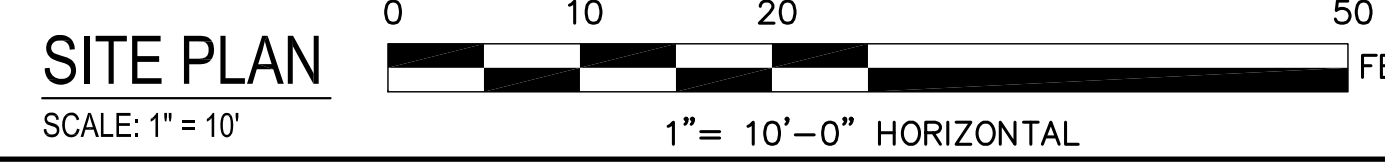


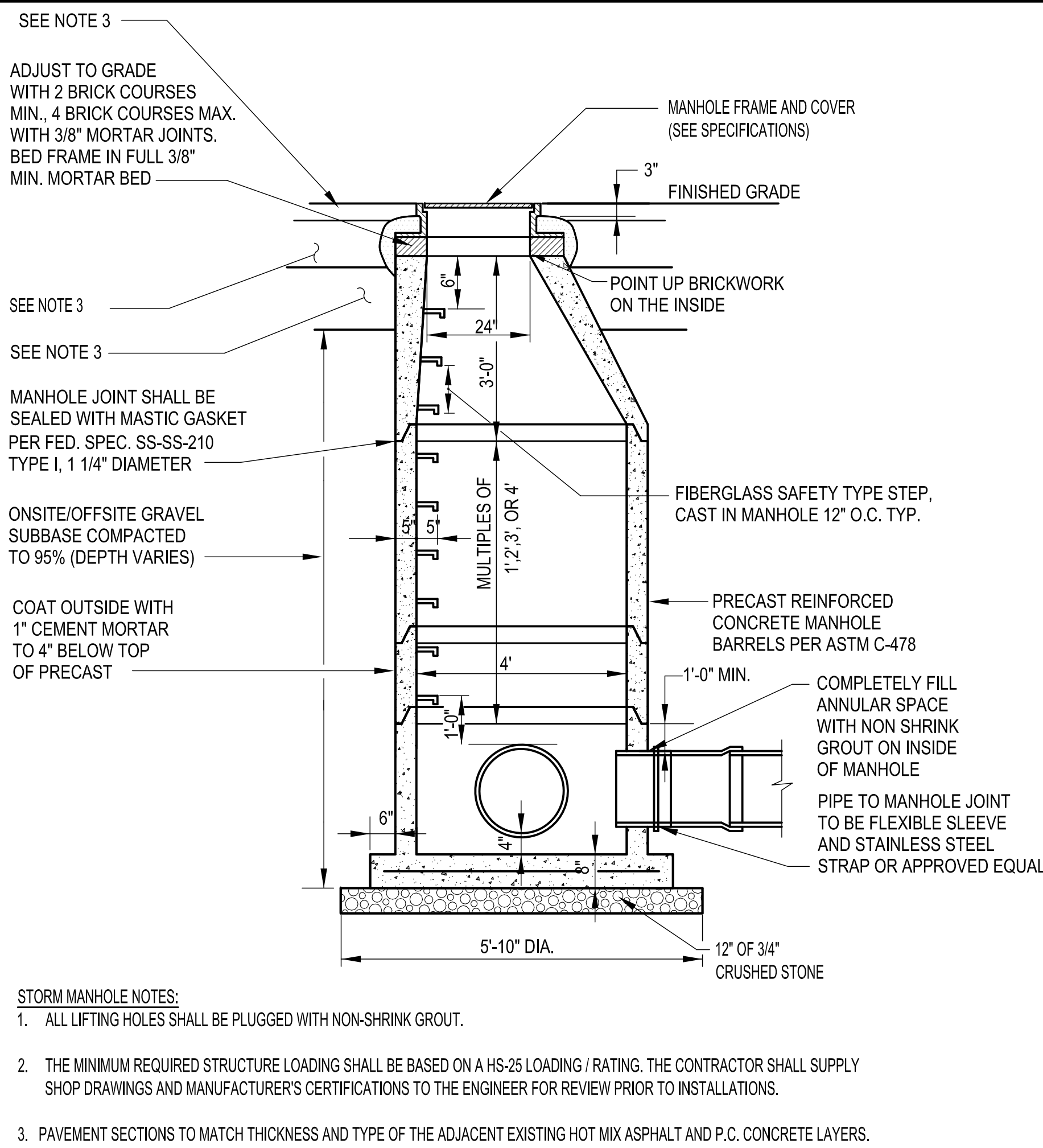
### EROSION CONTROL NOTES

1. THE EROSION CONTROL PLAN HAS BEEN DEVELOPED FOR MPA PROJECT NO. L1281-C6. THIS PLAN IS ASSOCIATED WITH SNOW MELTING UNIT AT LOCATION 14-32 AT LOGAN INTERNATIONAL AIRPORT IN BOSTON, MA.
2. SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF ANY CONSTRUCTION WORK. THE SOIL EROSION CONTROL MEASURES WILL INCLUDE PROVIDING SILT FENCE, HAY BALES AND/OR FILTER TUBES AROUND WORKZONE LIMITS.
3. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THIS PLAN, CURRENT BEST MANAGEMENT PRACTICES AND MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AREAS BY MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION.
4. EROSION CONTROL MEASURES WILL BE INSPECTED BY THE RESIDENT ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE RESIDENT ENGINEER WILL BE ON-SITE TO MONITOR CONSTRUCTION ACTIVITIES.
5. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE INSPECTED ON A DAILY BASIS BY THE CONTRACTOR, AT A MINIMUM, AND IMMEDIATELY FOLLOWING ANY RAINFALL OR SNOWMELT DURING CONSTRUCTION. ANY DEFICIENCIES NOTED SHALL BE CORRECTED BY THE CONTRACTOR PROMPTLY.
6. THE CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES AFTER THE UTILITY WORK HAS BEEN COMPLETED AND BACKFILLED. THE CONTRACTOR WILL RESTORE AND CLEAN UP AREAS WHERE EROSION CONTROL MEASURES WERE LOCATED AS DIRECTED BY THE ENGINEER.

### GENERAL NOTES

1. THE BACKGROUND INFORMATION AS SHOWN HEREON IS BASED ON RECORD INFORMATION AND SURVEY BY MASSPORT SURVEY UNIT DATED OCT 2017.
2. COORDINATES SHOWN HEREON REFER TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). ELEVATIONS HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988.

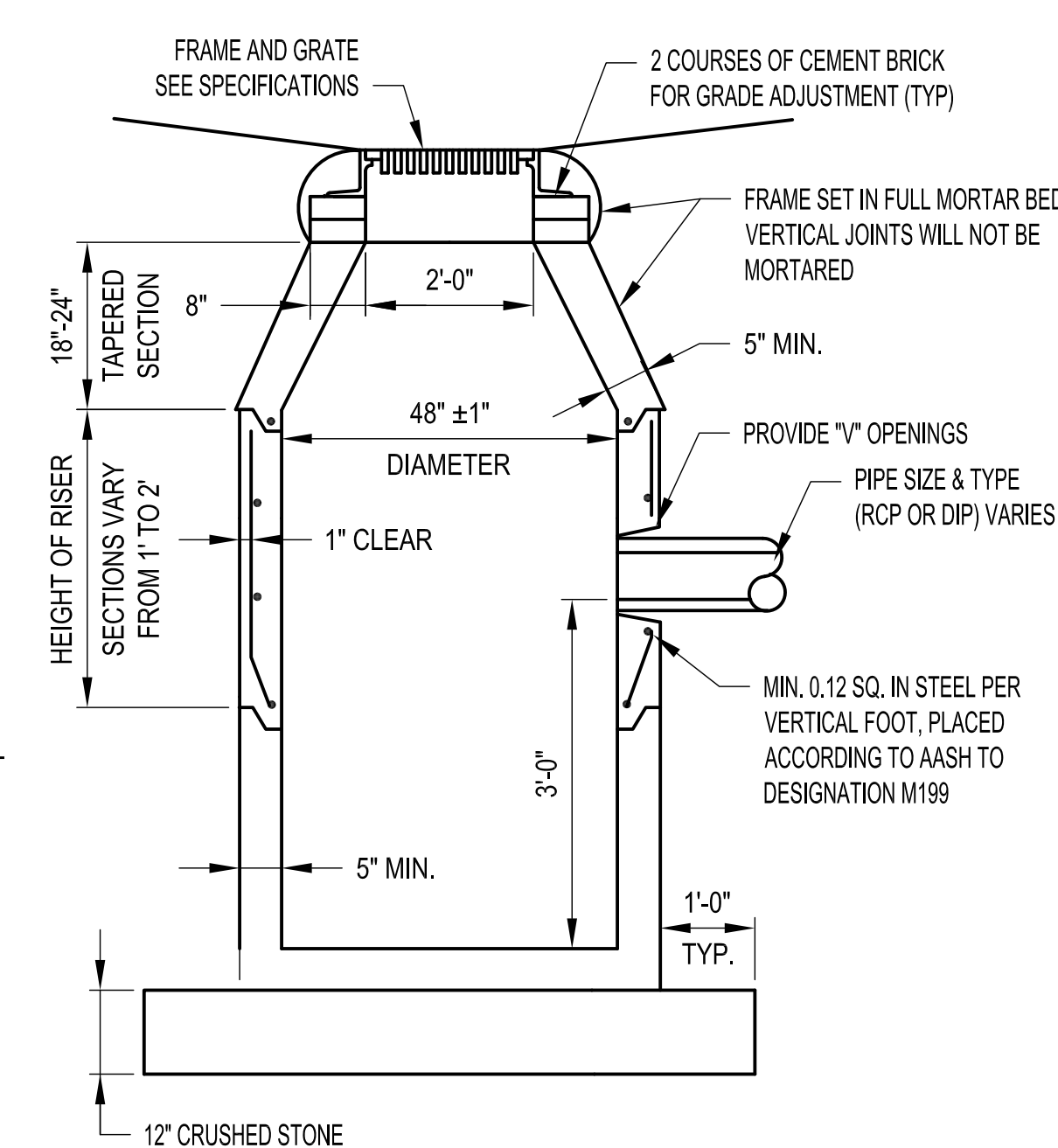




**PROPOSED DRAIN STORM DRAIN MANHOLE**

NOT TO SCALE

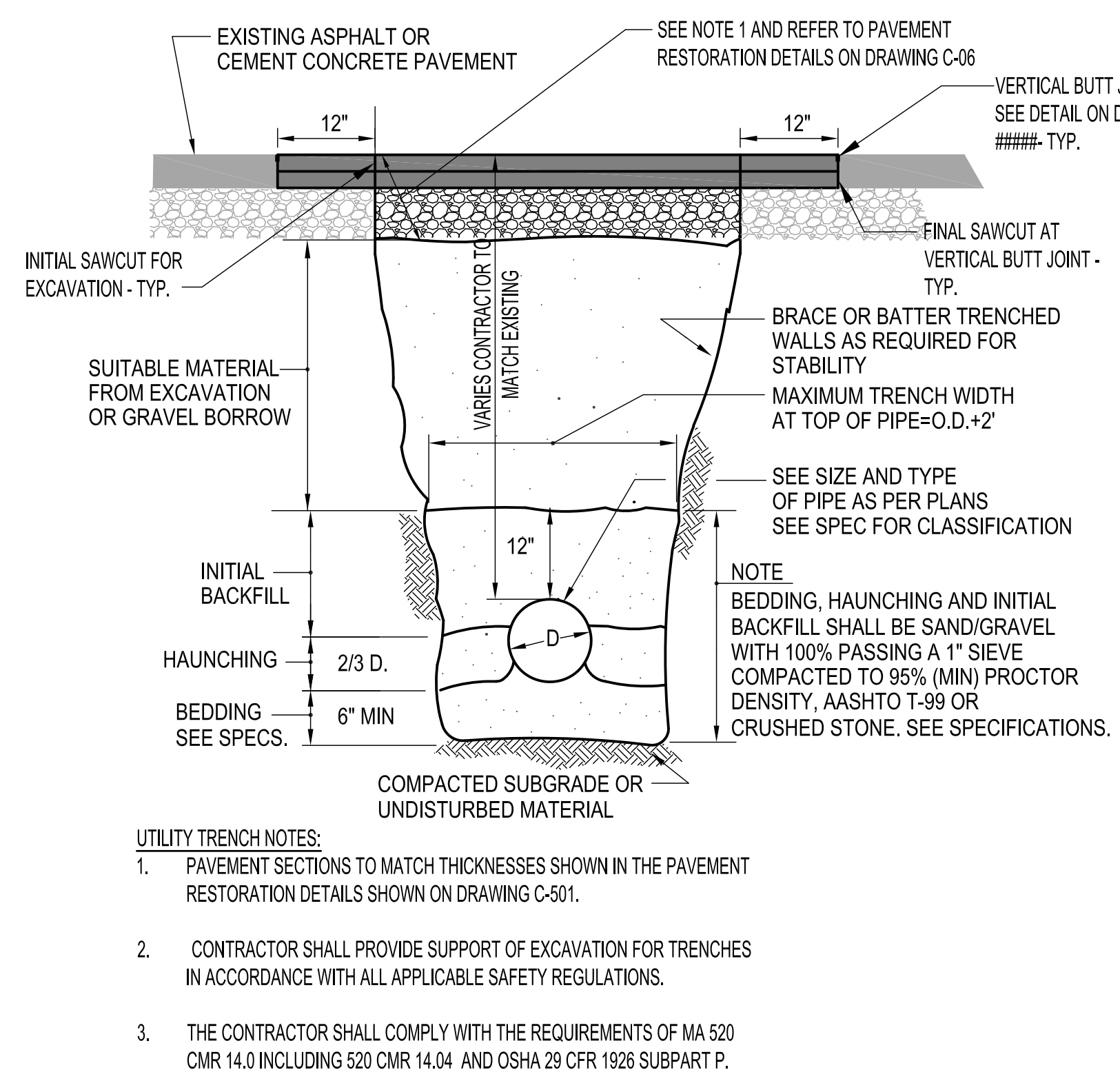
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**STANDARD CATCH BASIN**

NOT TO SCALE

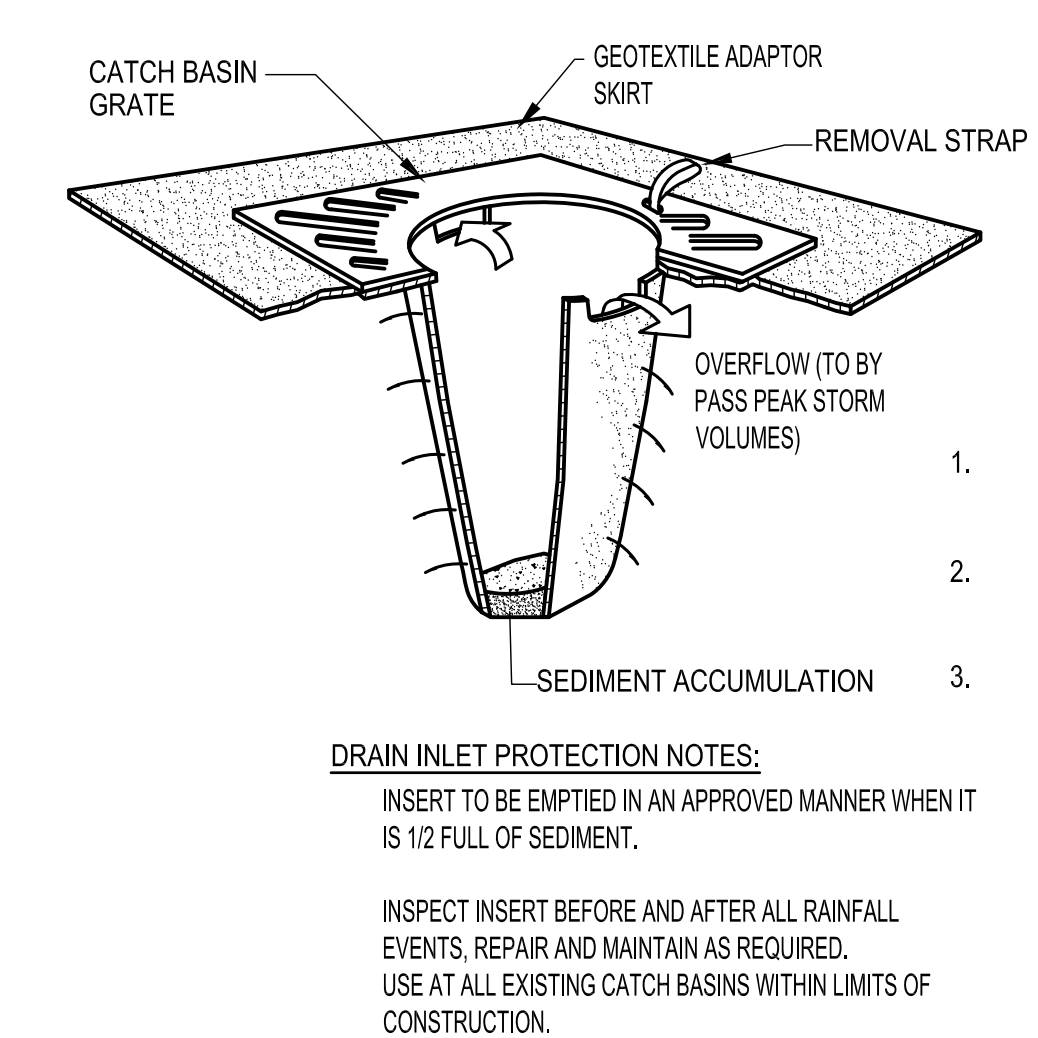
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**TYPICAL UTILITY TRENCH**

NOT TO SCALE

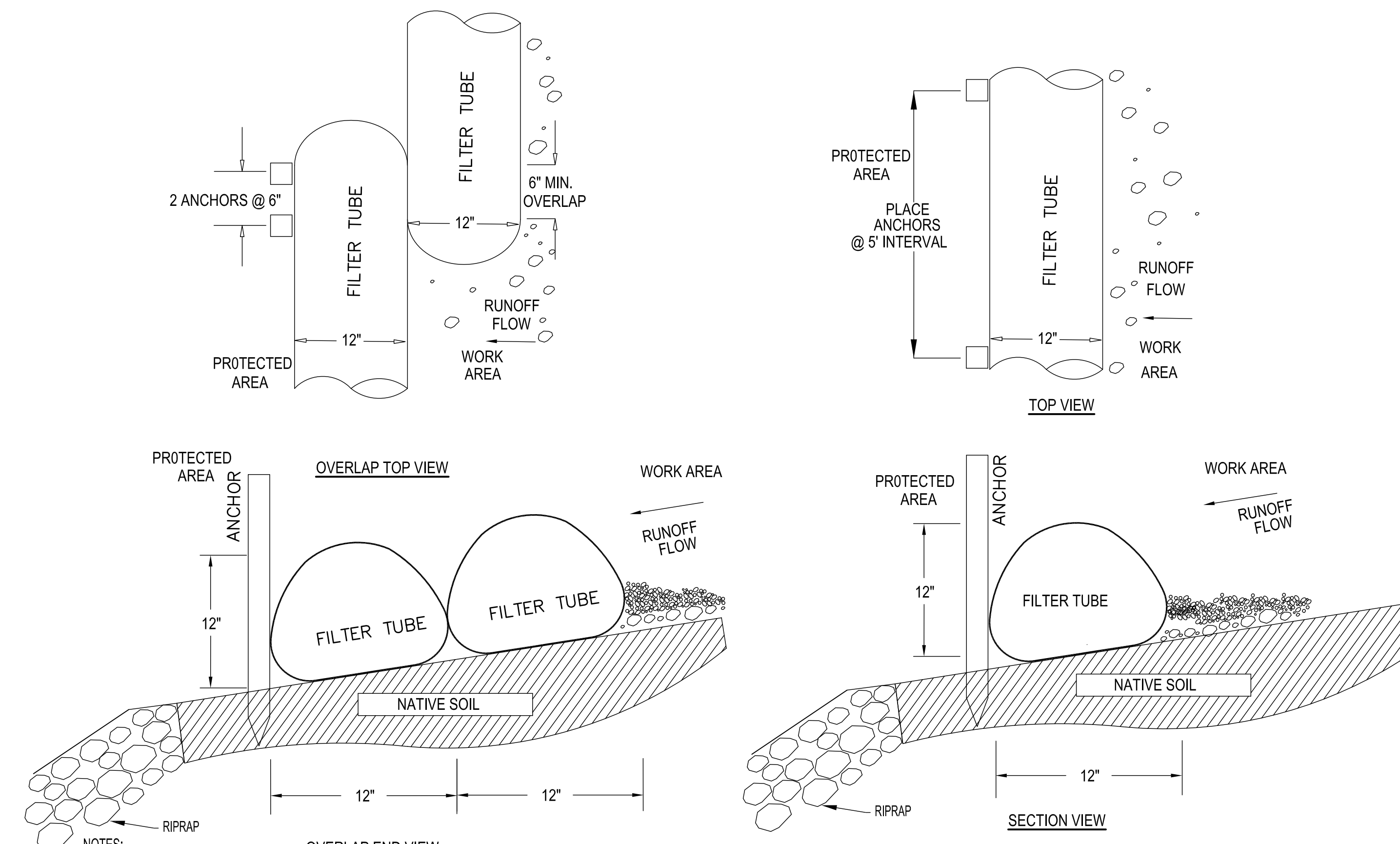
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**DRAIN INLET PROTECTION**

NOT TO SCALE

4



**FILTER TUBE DETAILS**

NOT TO SCALE

5



MASSACHUSETTS PORT AUTHORITY  
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:  
LOGAN INTERNATIONAL AIRPORT  
EAST BOSTON, MASSACHUSETTS

MPA CONTRACT NO.: L1281  
LOCATION CODE: 2700

PROJECT SUBMISSION PHASE:  
FOR PERMITTING ONLY

REGISTRATION STAMP:



REV. NO.	DATE	DESCRIPTION	BY:

REVISIONS:

PRIMARY:  
**Stantec**  
5 BURLINGTON WOODS  
BURLINGTON, MA 01803

CONSULTANT:

PROJECT NUMBER AND TITLE:  
**L1281-C6**  
AIRFIELD WIDE SNOWMELTING  
SYSTEM UPGRADE- PHASE II

SHEET TITLE:  
CIVIL UTILITY DETAILS

DISCIPLINE:  
CIVIL

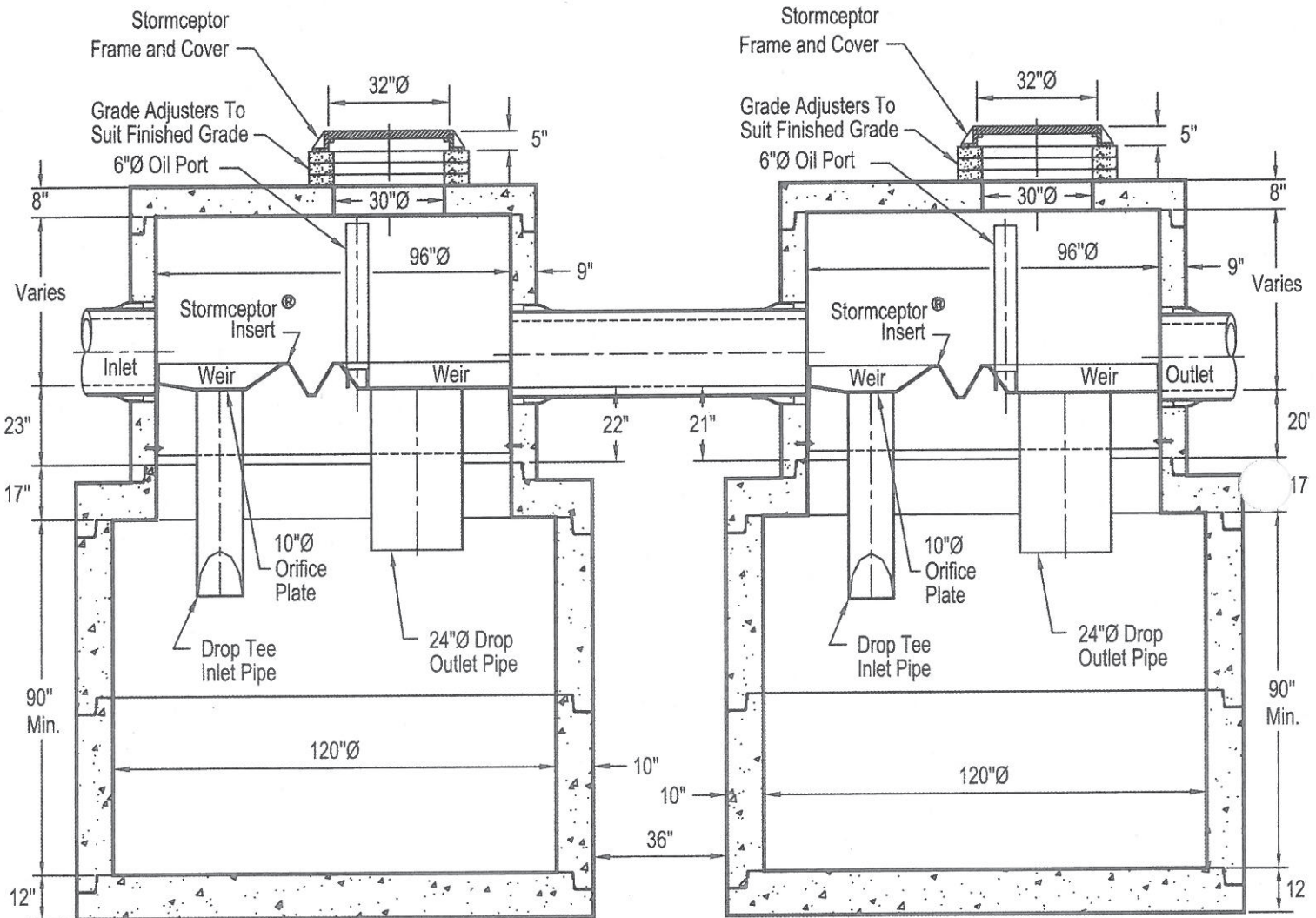
DRAWN BY: FLC  
CHECKED BY: WMA  
APPROVED BY: WMA

SCALE: AS NOTED  
DATE: 01/ 03/ 2018

SHEET NUMBER:  
**C-504-1**  
SHEET 2 OF 2



**STC 11000s Precast Concrete Stormceptor®  
(11000 U.S. Gallon Capacity)**



Section Thru Chambers

Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.



MASSACHUSETTS PORT AUTHORITY  
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:  
LOGAN INTERNATIONAL AIRPORT  
EAST BOSTON, MASSACHUSETTS

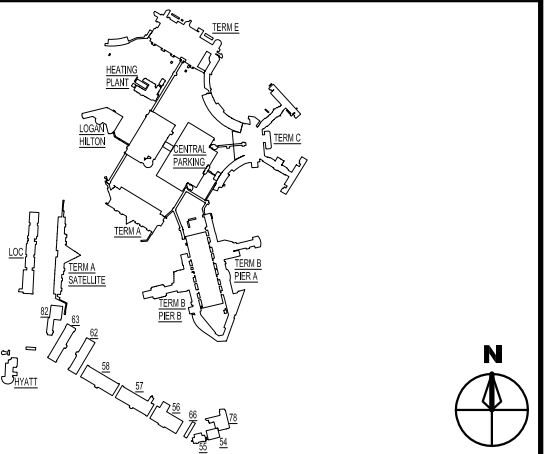
MPA CONTRACT NO.: L1281  
LOCATION CODE: 2700

PROJECT SUBMISSION PHASE:

FOR PERMITTING ONLY

REGISTRATION STAMP:

KEY PLAN:



REVISIONS:

REV NO.	DATE	DESCRIPTION	BY:

PRIMARY:



5 BURLINGTON WOODS  
BURLINGTON, MA 01803

CONSULTANT:

PROJECT NUMBER AND TITLE:

**L1281-C6**  
AIRFIELD WIDE SNOWMELTING  
SYSTEM UPGRADE- PHASE II

SHEET TITLE:

SNOWMELTER MECHANICAL  
DETAILS - SHEET 1 OF 3

DISCIPLINE:

MECHANICAL

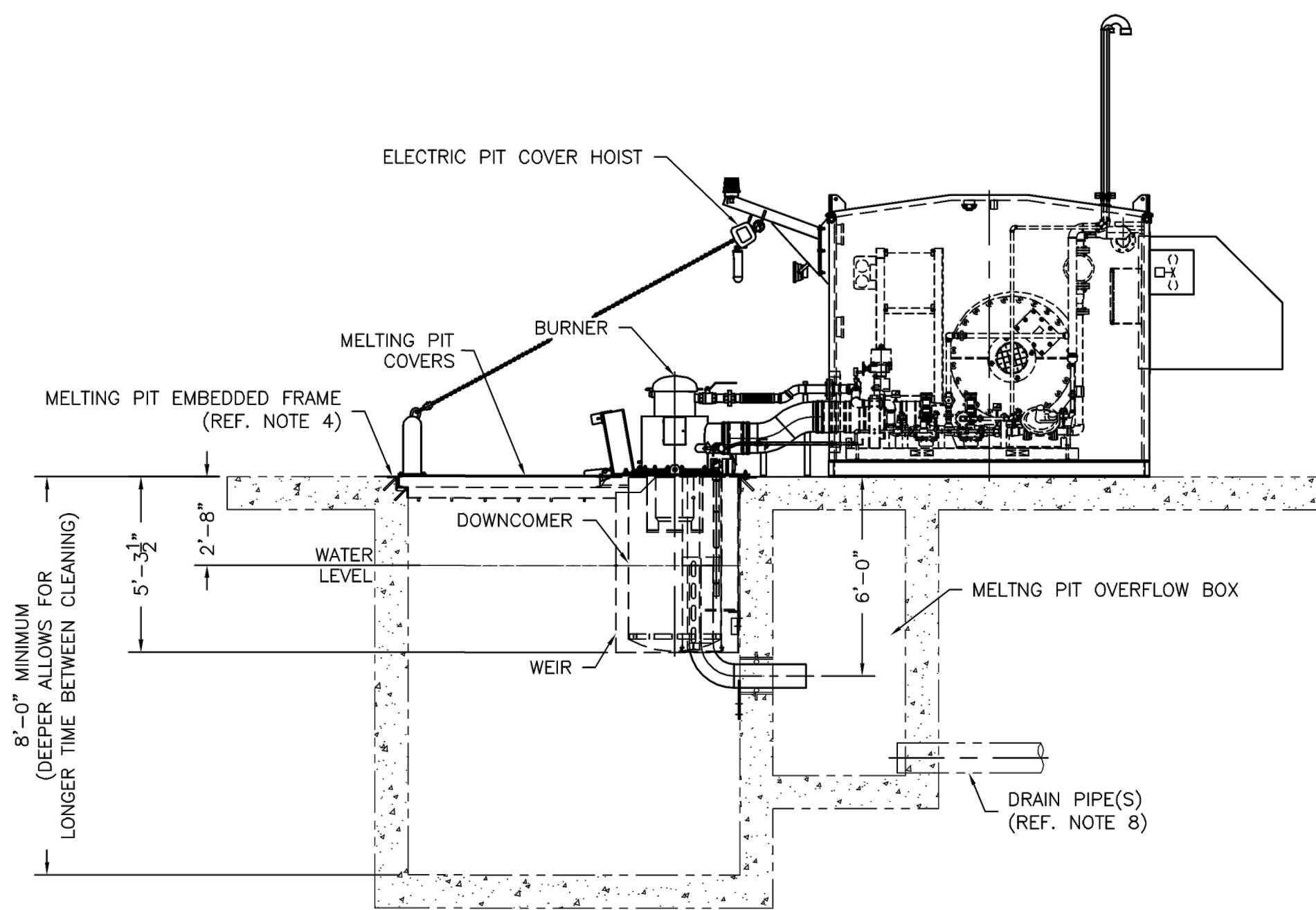
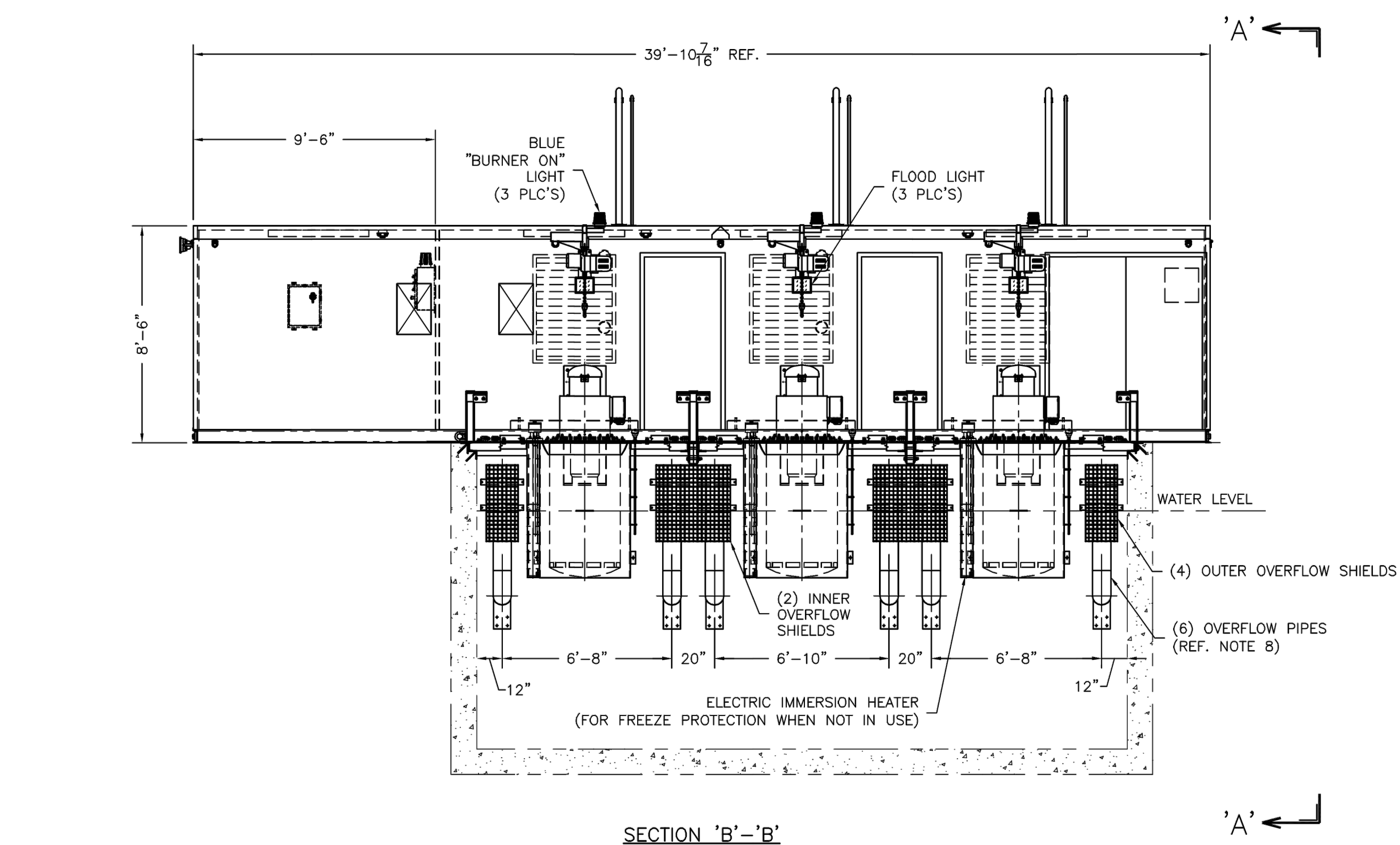
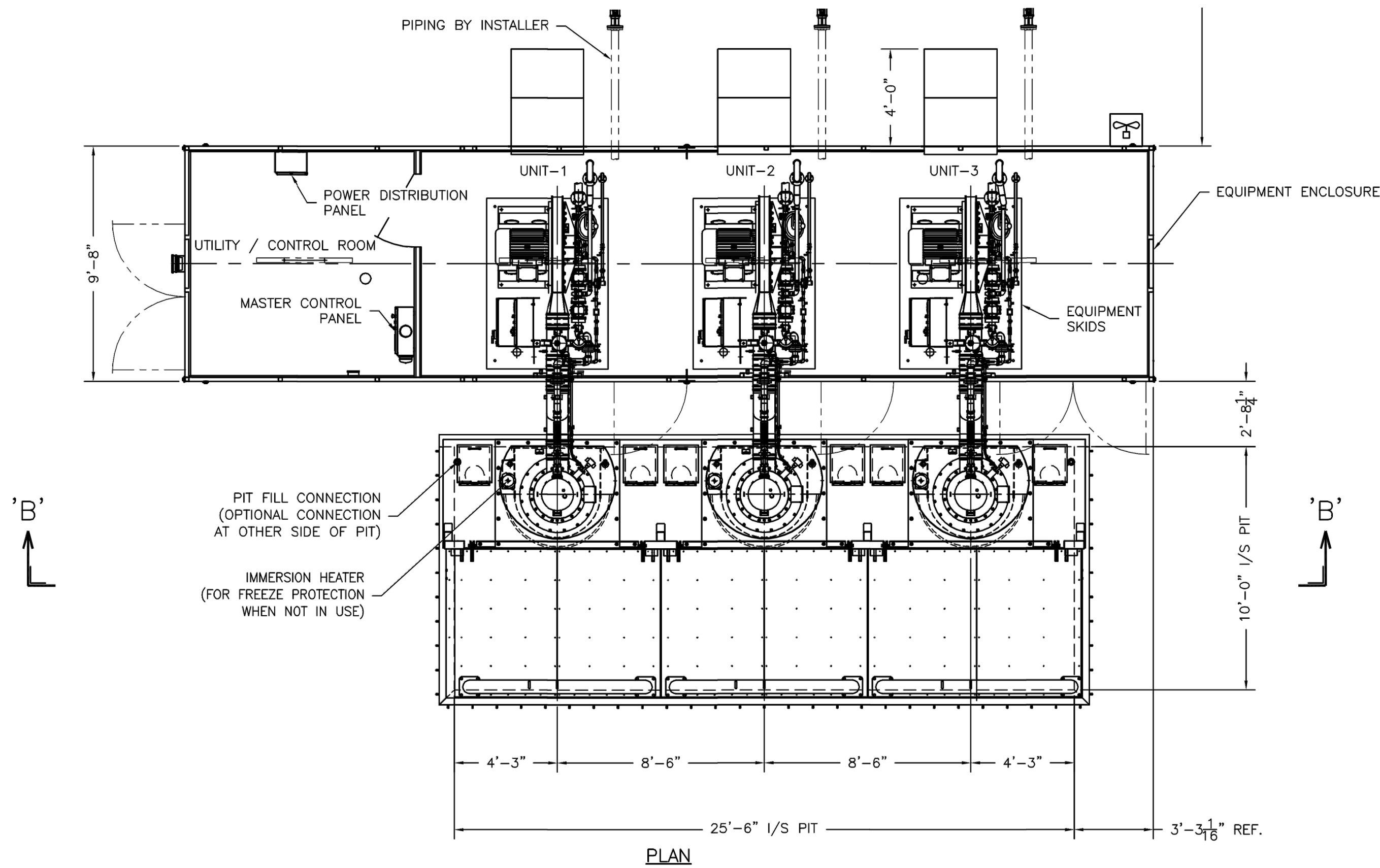
DRAWN BY: YK  
CHECKED BY: AAH  
APPROVED BY: WMA

SCALE: AS NOTED  
DATE: 01/16/2018

SHEET NUMBER:

**M-501-1**

SHEET 1 OF 1



**NOTES:**

1. THE SNOWMELTER EQUIPMENT PACKAGE INCLUDING ENCLOSURE AND ACCESSORIES ARE PRE-PURCHASED BY THE OWNER.
2. SNOWMELTER DETAILS SHOWN ON THIS DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. FINAL TRECAN SNOWMELTER DRAWINGS ARE ATTACHED TO THE CONTRACT DOCUMENTS.
3. THE SNOWMELTER EQUIPMENT SHALL BE RECEIVED BY THE CONTRACTOR, INVENTORIED BY THE CONTRACTOR, STORED OFF-SITE BY THE CONTRACTOR AND SHIPPED TO THE SITE FOR INSTALLATION BY THE CONTRACTOR.
4. CONTRACTOR TO COORDINATE GAS STUB-UP LOCATIONS WITH FINAL SNOWMELTER DRAWINGS.
5. REFER TO STRUCTURAL DRAWINGS FOR DIMENSIONS OF SNOWMELTER PAD AND PIT.
6. CONTRACTOR SHALL PROVIDE GAS TRAIN VENTING (2 PER BURNER) PER 248 CMR AND MANUFACTURERS REQUIREMENTS. COORDINATE WITH THE MANUFACTURER OF THE FIBERGLASS ENCLOSURE PENETRATIONS OF VENTS. VENTS SHALL TERMINATE PER 248 CMR AND PROVIDED WITH A 90 DEG ELL FITTING TO MITIGATE RAIN AND SNOW ENTRY.
7. ALL ENCLOSURE PENETRATIONS SHALL BE PER THE MANUFACTURERS RECOMMEND INSTALLATION INSTRUCTIONS.
8. ALL PLUMBING STORM PIPING SHALL BE EXTRA HEAVY CAST IRON.
9. ALL NATURAL GAS LINES SHALL BE PAINTED YELLOW AND LABELED "ELEVATED PRESSURE NATURAL GAS".
10. ENCLOSURE SUPPLY TYPE FAN IS INTERLOCKED WITH BURNER(S) OPERATION. PROOF OF FLOW IS ESTABLISHED PRIOR TO BURNER OPERATION. FAN IS PROVIDED AND INSTALLED BY TRECAN.

