



**CITY OF SOMERVILLE**  
Commonwealth of Massachusetts  
93 Highland Avenue  
Somerville, MA 02143  
(617) 625-6600

## **BUSINESS LICENSE APPLICATION - Sign and Awning**

File #: 19-008084

License #: BL19-000041

Address: 246 ELM ST

Licensee: Christopher Freeman Grainmaker 248 Elm St.

DBA Name: Grainmaker

Business Ownership Type: LLC

Legal Name of Entity: Grainmaker 248 Elm St. LLC

Owners/Officers: Christopher Freeman, Nicolas Jacob, ,

### **License Information:**

**# of signs/awnings:** 2

**Describe:** Hello - We are applying for 1 main front sign displaying "Grainmaker" and then 1 small blade sign that is perpendicular to the sidewalk to market the business presence since the storefront is small.

Approval Conditions: None

### **Approved By:**

**John J. Long, Approved**

**City Treasurer, Approved**

**Hans Jensen, Approved**

**Albert Bargoot, Approved**

**John J. Long, Approved**

NOTES

BLADE SIGN  
(INTERNALLY LIT)

Quantity: 1

- A - Sign Cabinet: Fab'd aluminum painted custom cor-ten steel with black graphic outline on the edge
- B - Graphics\*: Routed face & backed with day/night acrylic. Internally lit with white LEDs modules
- C - Mounting Bracket: Fab'd alum. painted black
- D - Hardware: Lags or Toggle Bolts

\* Artwork may require modifications for production purposes

MATERIALS:

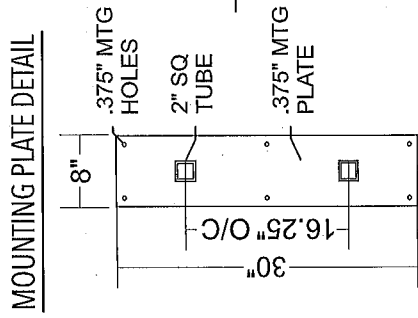
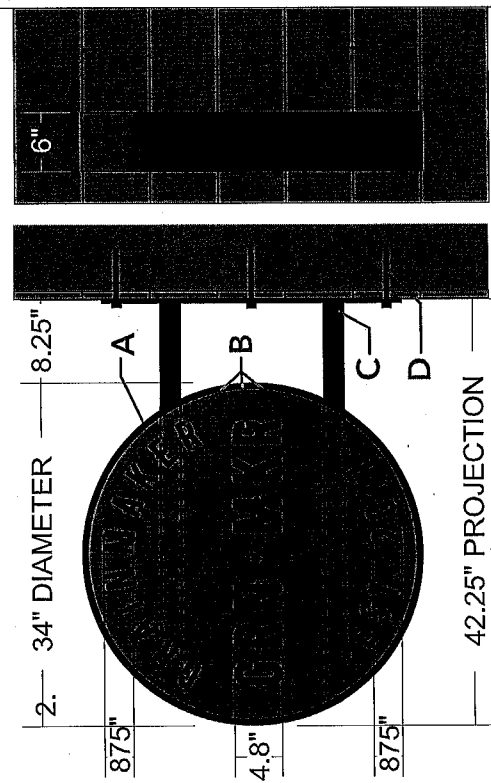
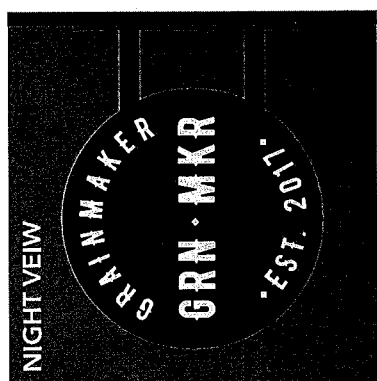
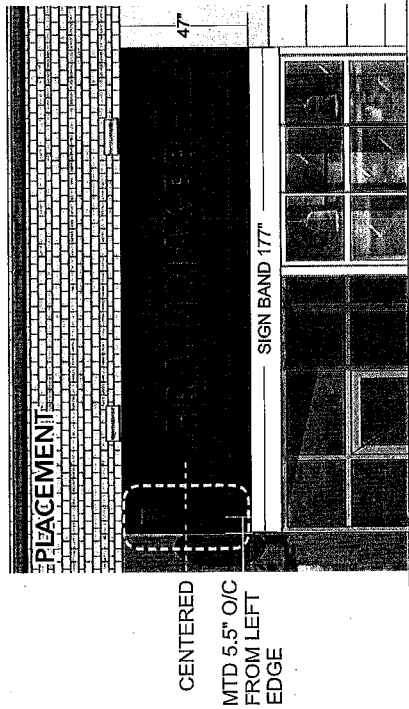
- Day/Night Acrylic
- PAINT COLORS:
  - Custom Color (CORTEN STEEL)
  - Standard Black
  - Finish (Satin)

Sign Sq Ftg: 8.02

Fonts: N/A

RELEASE TO PRODUCTION:

Work Order:



11'-7" CLEARANCE

Designed Per IRC 2015 MA Edition  
Wind Loads  
Ultimate Design Wind Speed 128 mph  
Nominal Design Wind Speed 95.1 mph  
Risk Cat. II  
(5-Year Peak Gust MPH\*) 114  
Wind Importance Factor 1.0  
Wind Exposure Category C  
Gust Factor 0.85

Snow Loads  
Ground Snow Load Pg 40 psf  
Snow Exposure Factor Ce 1.0  
Snow Load Importance Factor I 1.0  
Thermal Expansion Coefficient 6.5 x 10<sup>-6</sup>  
Thermal Expansion Modulus 29,000,000 psi  
Exterior connections designed in accordance with applicable provisions of the ASCE 7-10

REGISTERED PROFESSIONAL ENGINEER  
JERE K. MURDOCH  
CIVIL  
No. 49706  
COMMONWEALTH OF MASSACHUSETTS  
21 HANOVER ST., 10TH FL., SUITE 1000  
CAMBRIDGE, MA 02139  
Tel: 617.452.1171  
Fax: 617.452.1172  
E-Mail: jmurdoch@jmurdoch.com  
Project: 1801378  
Date: 05/02/2020

| FASTENER SCHEDULE |                                         | WALL CONSTRUCTION                  |                                         |
|-------------------|-----------------------------------------|------------------------------------|-----------------------------------------|
| FASTENER          | DETAIL                                  | WALL TYPE                          | DETAIL                                  |
| MASONRY           | PER FASTENER OVER MIN. 1/2" REINFORCING | CONCRETE                           | PER FASTENER OVER MIN. 1/2" REINFORCING |
| THRU-BOLT         | 3/8"                                    | ONLY WITH BACKER (MIN. 2x6 LUMBER) | YES                                     |
| EXPANSION ANCHOR  | 3/8"                                    | per/Note                           | NO                                      |
| LAG BOLT          | 3/8"                                    | per/Note                           | NO                                      |
| Tek-Screw         | 3/8"                                    | per/Note                           | NO                                      |

1) Fasteners to be structural grade.  
2) Expansion anchors shall be installed in accordance with the manufacturer's instructions.  
3) All fasteners shall be installed in accordance with the manufacturer's instructions.  
4) Thru-bolts into 2x6x4 1/2" SL Angle spanning two(2) wall studs per/bolt or rod is also Acceptable.  
5) Fastener type installed per/Engineers note and Manufacturer's specifications for wall type.

Engineers Note:  
Projection arms to be .125" wall Alum. Tube Min., extending through and connected to sign box, and welded to Min. 1/4" thick wall Mt. plate with bolt holes @ 6" O.C. horizontal spacing.  
- Install using the Fastener Schedule for existing wall type to determine the proper fasteners to install, Two(2) Top, Middle and Bottom.



TEWKSBURY MA 01876

170 LORUM STREET

PHONE: 978.851.2424

PHONE: 978.851.2424

WWW.METROSIGN.NET

Sales: TD

Design: DM

Plg: PG

Approved: ☐ Approved As Noted

Approval: ☐ Approved As Noted

File Name: Grainmaker\_Somerville\_Sign Pkg\_19-020449.fs

DWG. DATE: 4.18.2019  
Rev 1: 4.29.19 Updated notes/artwork  
Rev 2:  
Rev 3:

Customer/Job Location:

Grainmaker  
248 Elm Street - Somerville, MA

Drawing # 19-020449-1R1

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NOTES

LOC.2

REVERSE CHANNEL LETTER SET (HALO-LIT)

Quantity: 1 set

Letters: Fab'd Stainless Steel  
1.5" deep painted (Black)

Lighting: LED modules (White)

\*\*\*10 ft ELECTRICAL WHIPS ARE AT BOTTOM OF LETTERS\*\*\*

Hardware: Stud mtd to sign band with 1.5" spacers

MATERIALS:  
Stainless Steel

PAINT COLORS:  
Standard Black  
Finish (Satin)

Sign Sq Ftg: 10.59

Fonts: N/A

RELEASE TO PRODUCTION:

Work Order:

WWW.METROSIGN.NET

PHONE: 978.851.2424

FAX: 978.851.2022

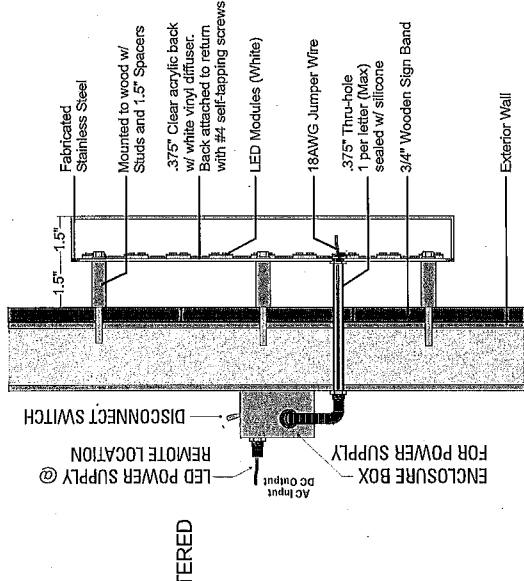
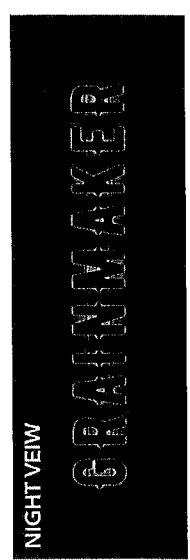
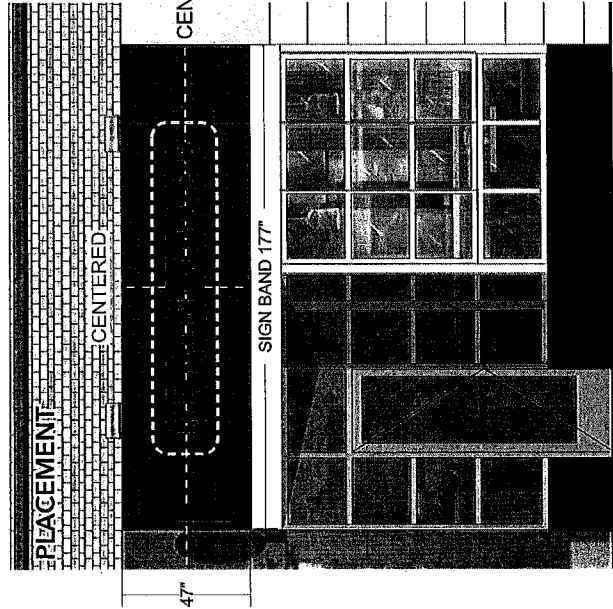
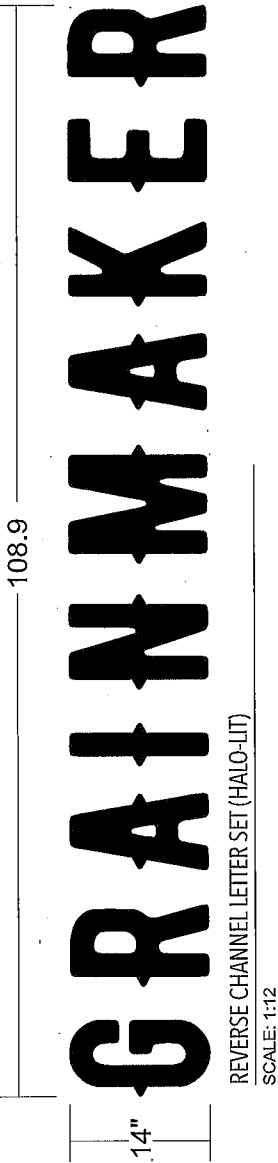
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Rev 2:

Rev 3:

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Grainmaker  
248 Elm Street - Somerville, MA



| FASTENER SCHEDULE |                | WALL CONSTRUCTION                   |                                                   |
|-------------------|----------------|-------------------------------------|---------------------------------------------------|
| HARDWARE          | QTY Per Letter | ESCR/DRILL OVER (MIN. 1/2" PLYWOOD) | ESCR/DRILL OVER (SYSTEM DISINTEGRATES) METAL STUD |
| THRU-BOLT         | 1/4" per/Note  | YES                                 | YES                                               |
| EXPANSION ANCHOR  | 1/4" per/Note  | YES                                 | NO                                                |
| LAC BOLT          | 1/4" per/Note  | NO                                  | NO                                                |
| TOGGLE BOLT       | 1/4" per/Note  | IF THROUGH BLOCK FACE               | YES                                               |
| Tek-Screw         | 1/4" per/Note  | NO                                  | YES (min 1/8" diam or 1/16" Steel)                |

1) Fasteners shall be evenly spaced.  
2) Expansion anchors require a minimum 1-1/2" solid masonry embedment.  
3) Tek-Screw into Alum. Require SS Screw - Full Thread Embedment Required.  
4) Thru-Bolts into 12024/18" SS Angle or 2x4 lumber spanning two (2) wall studs per Bolt or Rod is also Acceptable.

Designed Per IBC 2015 MA Edition  
www.metro-sign.com

**Wind Loads**  
Ultimate Design Wind Speed  
Ultimate Design Wind Speed  
Risk Cat.  
Wind Importance Factor  
Wind Exposure  
Gust Factor

128 mph  
128 mph  
II  
1  
C  
0.85

**Snow Loads**  
Ground Snow Load  
Snow Exposure Factor  
Snow Load Importance  
Thermal Factor  
Exterior components designed in accordance with applicable provisions of the ASCE 7-10

40 psf  
1.0  
1.1  
1.0

**Engineers Connection Note:**  
Provide 1/4" Diam. Fasteners through letter backs with washers using the fastener schedule for existing wall construction type to determine the fastener type to install as follows:  
- Letter 1: Provide Two(2), One(1) top and bottom.  
- Remaining Letters: Provide Three(3) per/letter.

COMMONWEALTH OF MASSACHUSETTS  
JERE K. MURDOCH  
CIVIL  
No. 48706  
REGISTERED PROFESSIONAL ENGINEER

MURDOCH ENGINEERING  
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PMgr: PG

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Drawing # 19-020449-2R1

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NOTES

LOC. 4-9

DIMENSIONAL LETTERS

Quantity: 1 set of each

Letters: 1/4" acrylic painted  
Matte Black  
(per customer supplied artwork\*)

Mounting: Flush mount with  
VHB tape to interior wall

\* Artwork may require modifications  
for production purposes

PAINT COLORS:

Standard Black

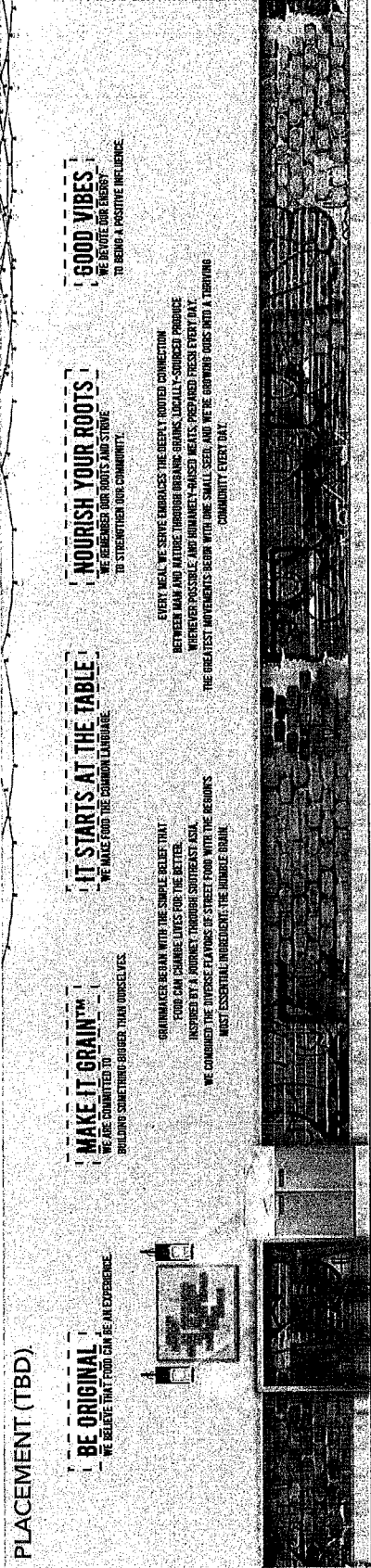
Finish (Matte)

Sign Sq Ftg: N/A

Fonts: Bernier Regular

RELEASE TO PRODUCTION:

Work Order:



**BE ORIGINAL MAKE IT GRAIN™**

**IT STARTS AT THE TABLE**

**NOURISH YOUR ROOTS GOOD VIBES**

DIMENSIONAL LETTERS  
SCALE: 1:10



WWW.METROSIGN.NET

PHONE: 978-851-2424

FAX: 978-851-2022

170 LORUM STREET

TEWKSBURY MA 01876

DWG. DATE: 4-18-2019

Rev. 1: 4-29-19 Added correct font

Rev. 2:

Rev. 3:

Approval: ☐ Approved ☐ Approved As Noted

Date

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Design: DM

PMgr: PG

Drawing # 19-020449-4R1

Customer/Job Location:

Grainmaker

248 Elm Street - Somerville, MA

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proposed site  
locations

