A. PROJECT INFORMATION

1. APPLICATION IS: ☑ Development Project ☐ Protest Appeal

2. STAFF REVIEW DATE:

3. SITE INFORMATION
Development Address: 1701 W Liberty Ave
Parcel ID(s)/Lot-and-Block Number(s): 35-M-258
Project Description: Install -
(1) 1'10" x 16'8-3/4" LED Illuminated Channel letters reading "NORTHSTAR" on front elevation
(1) 16" x 13'8-1/4" LED Illuminated Channel letters reading "CERTIFIED SERVICE" on front setback
elevation

3. CONTACT INFORMATION
Applicant Name: Jack Harnick
Applicant Contact (phone and email): 412-781-7735

B. ZBA HEARING INFORMATION

Zone Case # 136 of 2021
Date of Hearing: July 1, 2021
Time of Hearing: Click here to enter text.
Zoning Designation: HC
Neighborhood: Brookline
Zoning Specialist: CS

C. ZBA REQUESTS

Type of Request: Variance
Code Section:
Description: 919.03.M.4 - max 80 SF of signage permitted, 97 SF proposed

Type of Request: Variance
Description:
Data displayed on this map is for informational purposes only. It is not survey accurate and is meant to only show a representation of property lines.

Note: This button uses pop-ups. Please click help button for further printing instructions.
If enclosures are not as noted, please notify us immediately.

Signed: Kurt A. Boyd

Copy to: Lisa Cunnigham, AGC

Revised for Corrections Approved as Noted Corrected Prints

An outline is as follows:

Accel Sign Group, Inc.
5600 Harrison St.
Pittsburgh, PA 15221

Pittsburgh, PA 15226

Letter No.: 412-78-1-7736

TO: April 29, 2021

From: April 2, 2022

RBA Structural Engineering, LLC

 Kunden A. Boyd

Quotation: 10355-01

Description:

Shop Drawings
Specifications
Calculations
Correspondence
Other (Describe below)

Copies: Date: No.

The following is being sent via: Fed Ex Priority

Philadelphia, PA 19128

200 Chestnut St.
Suite 600, Philadelphia, PA 19103

Tel: (215) 568-0600
Fax: (215) 568-0666

www.rbastructural.com

227 French Landing Drive, Suite 500 Nashvillle, TN 37228

ENGINEERS

RBA Structural Engineering, LLC
CALCULATIONS FOR:

16" Certified Service Letters

Designed in accordance with:
2015 International Building Code
ASCE 7-10
120 mph wind velocity

Northstar Chevrolet West Liberty
1701 W Liberty Ave
Pittsburgh, PA

RBA Job No. 21 4562

ARCHITECTURAL GRAPHICS, INC.
2655 International Parkway
Virginia Beach, Virginia 23452

FABRICATOR

DESIGN ENGINEER

RBA Structural Engineering, LLC
227 French Landing Drive, Suite 500
Nashville, Tennessee 37228
16" C.S CHANNEL LETTERS
LED Layout

Certified Service

Power Supply
(1) PS12-60WSL-100-277V

Module
(79) LS-U450-6SK-B150-A

Certified Service Lettersets

<table>
<thead>
<tr>
<th>A HEIGHT</th>
<th>B LENGTH</th>
<th>SQUARE FT</th>
<th>WEIGHT</th>
<th>ELECTRICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>22&quot;</td>
<td>10.3/4&quot;</td>
<td>34.56</td>
<td>80 lbs</td>
<td>2 amp</td>
</tr>
<tr>
<td>16&quot;</td>
<td>8.1/4&quot;</td>
<td>19.25</td>
<td>64 lbs</td>
<td>1 amp</td>
</tr>
</tbody>
</table>

For free standing signs with
Above ground connection,
1. use 1/" x 1/" x 1/" x 1/"
2. use 1/2" x 1/" x 1/" x 1/" x 1/"
3. use 1/4" x 1/" x 1/" x 1/"
4. install as shown

For electric heat: SCALE IN T.S.

2655 International Parkway
Virginia Beach, VA 23452

T:Free: 844.511.7565
Phone: 757.301.7008
Fax: 866.418.9462
Northstar Chevrolet West Liberty
1701 W Liberty Ave
Pittsburgh, PA

RBA Job No. 21 4562

CALCULATIONS FOR:
Sign Type:
22" Dealer Letters

Designed in accordance with:
2015 International Building Code
ASCE 7-10
115 mph wind velocity

FABRICATOR
Architectural Graphics, Inc.
2655 International Parkway
Virginia Beach, Virginia 23452

DESIGN ENGINEER
RBA Structural Engineering, LLC
227 French Landing Drive, Suite 500
Nashville, Tennessee 37228
24" DIAM. NAME LETTER SET

MAX. LETTER: 94" HIGH X 4½" WIDE, 7070 SOLID (MAX)

LETTER LEAD WIDTH 4½" BETWEEN RETURNS
LETTER SET LENGTH 25" 9½'

W/7 WAVE P/L LETTER 15" MAX (6.6 k)
MAX. HEIGHT ABOVE GRADE ≤ 30'

ALL LETTERS ≤ .04" AL THICKNESS, .063" MAX, 5" HOLE

WIND LOAD: ASCE 7-10, COMPONENTS: CLADDING:

\[
\begin{align*}
\frac{V^2}{2g} &= \frac{0.0075k_2 k_3 V^2}{2g} \\
\frac{V}{g} &= 93.2 \text{ psf} \\
k_2 &= 1.0 \\
k_3 &= 0.85
\end{align*}
\]

\[P = 8 (GCP - GCP_0)\]

\[P = -39.5 \text{ psf} \text{ (ULT)}\]

GCP = -14, CP₀ = 0 (WALL MOUNTED SIGN)

ASD LOAD: -39.5 psf, U = 23.7 psf. (FOR AL DESIGN)

MAXIMUM LETTER ASD LOADS:

\[D_L = 15 \frac{h}{4} \text{(40%)}\]

\[W_L = 122'' \times 115'' \times 7 \times 93.7 \text{ psf, 42''}\]

10 W/ WALL: 3 ANCHORS: \[T_{max} = \frac{13.8'' + 13.4'' + 15''}{158''} = 14''\]

\[V_{max} = 15'' / 3 = 5''\]

CHECK TREYWOOD: FROM SCAFF: 1½'' 5/8'' EXTERIOR GRADE PLYWOOD PROVIDED

\[\text{CHECK SCAFF CAPACITIES @ 1½'' PLYWOOD, MIN.}\]

\[\text{NORTHSTAR}\]

16 - 8 3/4''
CONNECTOR: 1/2" LAS CLEVIS

CONNECTION:

1/2" LAS SCREW: 11100 lbf x 1.6

Tol: 315 kips > 110 kips

Val: 970 kips > 54 kips

ALTERNATE MOUNTING HARDWARE:

1/4" THIN NUT: 1020 lbf

Val: 510 lbf

3/4" LAG SCREW: 10 kips x 1.6

Val: 195 kips

4" LAG SCREW: 10 kips

Val: 60 kips

CHEESE LUG W/THICKNESS 0.4" WIDE BETWEEN RETURNS:

\[
N = \frac{1}{2} \left( \frac{1}{4} \right) = \frac{1}{4}
\]

300 psi AL., Fb/AL = 11, 000 psi

\[
\varepsilon_{lo} = \sqrt{\frac{6 \times 16}{6^2 \times 1/10}} = 0.08^\circ < 0.03^\circ
\]
General Motors Facility Image
Dealer Signage Package

General Motors Facility Image

Chevrolet
GMC
Cadillac

Dealer Signage Package

NORTHSTAR WEST LIBERTY (307238)
PITTSBURGH, PA
PACKAGEx

The Dealer Signage Package is issued to the Dealer Principal for review and approval. This document outlines the proposed FI signage for the Dealership.

APPROVAL

Dealer Principal is to review sign placement, sign size and enclosed quote. Once the Dealer Principal approves the sign package, Dealer Principal is to sign off on each enclosed rendering showing sign placement as well as the enclosed quote. Dealer Principal is to return to Architectural Graphics, Inc. copies of the approved renderings as well as signed quote and issue the 50% deposit payment.

NEXT STEPS

Upon receipt of the deposit payment, Architectural Graphics Inc. will proceed with permitting the signs. Once all signs are permitted, AGI will coordinate manufacturing, shipping and installing the signs based on FI building readiness.
**ELECTRICAL REQUIREMENTS:** Each sign requires a dedicated 120v circuit

---

**NORTHSTAR**

---

**Dealer Name Letterset**

<table>
<thead>
<tr>
<th></th>
<th>A HEIGHT</th>
<th>B LENGTH</th>
<th>SQUARE FT</th>
<th>WEIGHT</th>
<th>ELECTRICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>22&quot;</td>
<td>16'-8 3/4&quot;</td>
<td>30.67</td>
<td>8 lbs/ltr</td>
<td>.4 amps/ltr</td>
</tr>
</tbody>
</table>

---

**Certified Service**
ELECTRICAL REQUIREMENTS: Each sign requires a dedicated 120v circuit

Certified Service

16" x 13' - 8 1/4"

Certified Service Letterset

<table>
<thead>
<tr>
<th>A HEIGHT</th>
<th>B LENGTH</th>
<th>SQUARE FT.</th>
<th>WEIGHT</th>
<th>ELECTRICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>16&quot;</td>
<td>13' - 8 1/4&quot;</td>
<td>18.25</td>
<td>64 lbs</td>
<td>1 amp</td>
</tr>
</tbody>
</table>