

Job name
Job#
Sign company:
Installation location:

TA Truck Service (signs B and C)
3421DS
Dowling Signs
I-75 and HWY-41, Lake City, FL 32025

Section 3107 and 1609 of Florida Building Code 2020 and Chapter 30 ASCE 7-16 applies.
Application of wind pressures using the alternative all heights method for components and cladding

Type of structure:

wall mounted lighted cabinet sign

Occupancy Category:

II

Wind velocity (3 sec gust), FBC 2020, section 1609.3:

130

mph

Wind pressure (qz)

43.3

psf

Net Pressure Coefficient (Cnet) from Figure 30.7-2

Components and cladding not in areas of discontinuity - walls and parapets
Wind Pressure

-1.09
-47.2

psf

Wind load applied between wall and structure, pulling structure away from wall
Load carried by tension in fasteners connecting structure to wall

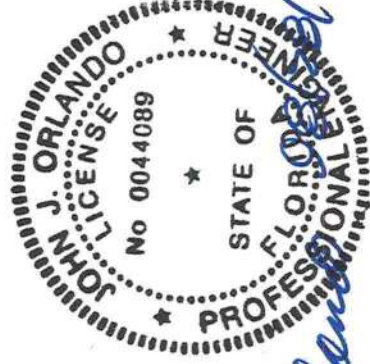
- maximum height of structure to be attached
- maximum width of structure to be attached
- effective projected area factor
- projected area of each component to be attached
- wind load
- allowable tension load per fastener to
- even number of fasteners minimum of 2 =
- number of fasteners practically required due to structure shape
- weight of structure is approximately
- allowable shear load per fastener to
- average shear load per fastener =

4.00 ft
18.17 ft
1.00
72.7 ft²
-3430 lbs
250 lbs
-14
14
291 lbs
125 lbs
20.8 lbs

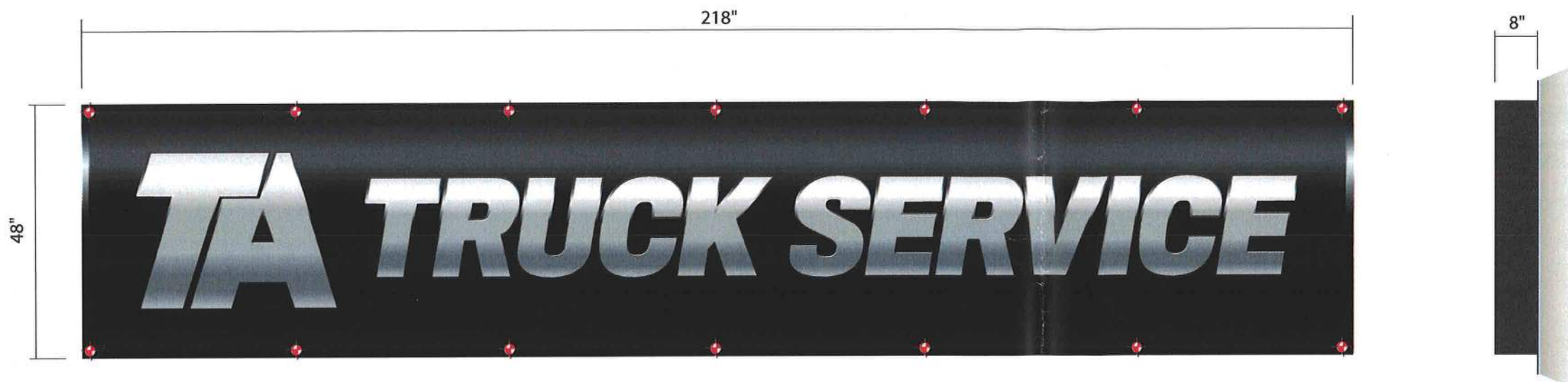
References:

ASCE 7-16
The 7th Edition (2020) of the Florida Building Code

sheet: 4 of 4



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B C S/F ILLUMINATED CABINET
Scale: 3/4" = 1'-0"

SCOPE OF WORK:

MANUFACTURE AND INSTALL (1) NEWS/F ILLUMINATED CABINET

GENERAL SPECIFICATIONS:

CABINET,

STRUCTURE: 1 1/2" x 1 1/2" x .1875" ALUM. ANGLE FRAME BUILT IN TWO PIECES TO BE JOINED IN FIELD BY WELDED CAPTURE NUTS & 3/8" Ø HARDWARE.

OUTSIDE FRAME: FLAT BLEED RETRO FRAME WITH BLEED FRAME COVER, SUPPORTED BY FRAME BRACE WITH PIANO HINGE ON TOP OF CABINET

SKIN : .125" ALUMINUM

FACE : WHITE FLEXIBLE SUBSTRATE FACE WITH 1ST SURFACE DIGITAL GRAPHICS. FACE TO BE STRETCHED IN SHOP AND RELEASED FROM ONE SIDE FOR SHIPPING.

PAINT,

INTERIOR : TO BE PAINTED SPRAYLAT L.E.P.

EXTERIOR : PAINT TO MATCH MATTHEWS BLACK, SEMI-GLOSS FINISH.

ILLUMINATION :WHITE LED'S & POWER SUPPLIES AS REQUIRED FOR PROPER ILLUMINATION.

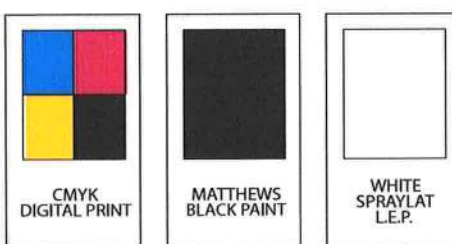
ATTACHMENT :FLUSH MOUNT TO WALL WITH 3/8" Ø MIN. ALL THREAD. INTERIOR FRAME TO

ALUM. WELDED CAPTURE NUTS FOR ATTACHMENT, 14 EVENLY SPACED PLACES, PRECISE FASTENER LOCATIONS BY INSTALLERS



FASTENER SCHEDULE

	3/8" LAG SCREW	FOR USE WITH WOOD OR EIFS WALL SYSTEMS. 1-1/2" MIN PENETRATIONS (EXCL. TIP)
	3/8" SNAP TOGGLE	FOR USE WITH WOOD OR STUCCO WALL SYSTEMS. 1-1/2" MIN PENETRATIONS (EXCL. TIP)
	3/8" LAG & SHIELD	FOR USE WITH WOOD OR EIFS WALL SYSTEMS. 1-1/2" MIN PENETRATIONS (EXCL. TIP)
	3/8" DIA. THREADED ROD & BEARING PLATES	FOR USE WITH WOOD, CONCRETE BLOCK OR EIFS WALL SYSTEMS
	3/8" DIA. THREADED ROD	FOR USE WITH WOOD, CONCRETE BLOCK OR EIFS WALL SYSTEMS
	3/8" RED HEAD L.D.T. (LARGE DIAMETER TAPCON)	FOR USE WITH CONCRETE BLOCK, BRICK OR CONCRETE, EMBED A MIN. OF 2 1/2"
	3/8" DIA. HILTI HIT ROD WITH Hy150 MAX ADHESIVE	FOR USE WITH CONCRETE, EMBED A MIN. OF 2"
	3/8" DIA. HILTI HIT ROD WITH Hy20 ADHESIVE	FOR USE WITH MASONRY/AND BRICK EMBED A MIN. OF 3 3/8"
	3/8" DIA. HILTI HIT ROD WITH Hy20 ADHESIVE	FOR USE WITH CONCRETE BLOCK, EMBED A MIN. OF 2"
	3/8" DIA. HILTI HLC SLEEVE ANCHOR	FOR USE WITH CONCRETE, MASONRY AND BRICK EMBED A MIN. OF 3 3/8"





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PHOTO SURVEY OF EXISTING
Scale: Not to Scale



PHOTO SURVEY OF PROPOSED (ENTRANCE)
Scale: Not to Scale

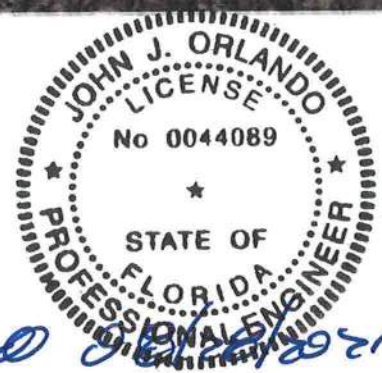




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PHOTO SURVEY OF EXISTING
Scale: Not to Scale



J. Orlando 12/28/2021



PHOTO SURVEY OF PROPOSED (EXIT)
Scale: Not to Scale