

THE METAL SHOP

2541 W. Dunnellon Road

Dunnellon, FL 34433

www.metalshop.org

Phone: 888-441-2492 Fax: 352-522-0007

NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE, SEVENTH EDITION, BUILDING VOLUME AND ASCE 7 - 2016 MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES.
2. ANY CHANGE FROM THE DRAWINGS AND / OR FIELD CHANGE CONDITIONS, MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER SO THAT NECESSARY CHANGES CAN BE MADE AND INTENT OF THE DESIGN IS CARRIED OUT TO ITS FULLEST EXTENT.
3. IT IS THE RESPONSIBILITY OF INSTALLING CONTRACTOR TO PROVIDE ADEQUATE ANCHORAGE AND CORROSION RESISTANT ISOLATION PADS AT THE BOTTOM OF ALL BASE PLATES WHEN BEARING ON CONCRETE AND STEEL STRUCTURES.
4. MINIMUM DESIGN LOADS:
DEAD LOADS AND LIVE LOADS ARE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODES, CHAPTER 16.
WALL BRACES FRAMES ARE DESIGNED TO SUPPORT A/C UNITS WITH WIND SPEEDS UP TO 186 MPH PER 2020 FBC AND ASCE 7-16 FOR CATEGORY I AND II BUILDINGS, ONLY UP TO 30 FEET ABOVE GROUND.
FOR ALL OTHER BUILDING CLASSIFICATIONS AND FOR WALL MOUNTING ABOVE 30 FEET SITE SPECIFIC ENGINEERING WILL BE REQUIRED.
5. CALCULATIONS ARE BASED ON TYPICAL A/C CONDENSING UNIT WEIGHTS AND SIZES AS PROVIDED BY MANUFACTURE SUPPLIED DATA. MAXIMUM UNIT WEIGHT IS LISTED IN REACTIONS TABLE ON SHEET 2.
6. DESIGN AND ENGINEERING IS FOR THE METAL SHOP WALL BRACE ONLY. SEE MANUFACTURE INSTRUCTIONS AND CERTIFICATIONS FOR PROPER INSTALLATION OF AC UNIT.
7. SEE MANUFACTURE INSTALLATION FOR AC CONDENSER UNIT.
8. 6063-T5/6061-T6 ALUMINUM ALLOY CONSTRUCTION FOR EXTERIOR EXPOSURE APPLICATIONS.
9. WALL BRACES SHALL HAVE ALL WELDED JOINTS AND SEAMS UNLESS OTHERWISE STATED.
10. WELD FILLER SHALL BE ALUMINUM ALLOY 4043 WITH TENSILE STRENGTH OF 26-28 KSI.
11. ALL ANCHOR/CONNECTION BOLTS SHALL BE IN ACCORDANCE WITH ASTM A-307 OR A-325 F.
12. EXPANSION BOLTS AND LAG SCREWS SHALL HAVE A MINIMUM EDGE DISTANCE OF 1" FOR LAGS AND 3" FOR EXPANSION BOLTS. PRE-DRILL HOLES IN LAG SCREWS.
13. VIBRATION ISOLATOR PADS SHALL BE PROVIDED BY THE A/C CONTRACTOR SO AS NOT TO CAUSE VIBRATION TO EXISTING SUB-STRUCTURE

REVISIONS

DATE

THIS DRAWING IS NOT VALID UNLESS SIGNED, SEALED AND DATED BY A REGISTERED PROFESSIONAL ENGINEER



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Aluminum Wall Braces
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DATE 1/8/2021

SCALE AS NOTED

DRAWN BY J. HILLER

JOB NO.

WB-1

1 OF 2

This plan has been digitally signed and sealed by Joseph D. Hiller, P.E., using a Digital signature. Printed copies of this document are not considered signed and sealed and the digital signature must be verified on any electronic copies.