



INSULATED ROOF PATIO COVER OPEN WALLS - 12' SPAN LIMITS

INVALID

INVALID

DESIGN NOTES:

FLORIDA BUILDING CODE SIXTH EDITION (2017),
2012, 2015 IBC/IRC, ASCE 7-10
Vult=VARIES PER DESIGN SCHEDULES, EXPOSURES 'B' & 'C'
RISK CATEGORY II, G=0.85, Kd=0.85, Kz=0.85, Kzt=0.85
(FLAT OR UNOBSTRUCTED TERRAIN ONLY)
ROOF OVER OPEN STRUCTURE WITH OBSTRUCTED WIND FLOW
 $q_h = 0.00256 * K_z * K_{zt} * K_d * V^2 * I$
 $P = q_h * G * C_n, G=0.85$

MRH= 15'
ROOF LIVE LOAD: 30 PSF
ROOF DEAD LOAD: 2 PSF

GENERAL NOTES:

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE APPLICABLE BUILDING CODES AS STATED HEREIN. STRUCTURE SHALL BE FABRICATED IN ACCORDANCE WITH ALL GOVERNING CODES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
- ALUMINUM MEMBERS ANCHORS SHALL BE SPACED WITH 2x DIAMETER END DISTANCE AND 2.5x DIAMETER MIN. SPACING TO ADJACENT ANCHORS, UNLESS NOTED OTHERWISE.
- ALL FASTENERS TO BE #12 OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE AS NOTED HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
- ALL CONCRETE TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- ENGINEERING EXPRESS HAS NOT VISITED THIS JOBSITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR SUPPLIED DATA AND MEASUREMENTS. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. WORK SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ENGINEERING EXPRESS SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

PE SEAL
REQUIRED
2/2/2019

NOTICE: IF THIS SHEET DOES NOT CONTAIN AN ORIGINAL SIGNATURE & ENGINEER SEAL, IF THERE IS A DIGITAL SIGNATURE ON SHEET 1, THIS SHEET IS PART OF A DIGITALLY SIGNED FILE, SHALL REMAIN IN DIGITAL FORMAT, & PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. IF THERE IS NO DIGITAL SIGNATURE ON SHEET 1 OR THIS SHEET DOES NOT CONTAIN AN ENGINEER'S ORIGINAL SIGNATURE & SEAL, THIS SHEET IS A COPY/DRAFT.

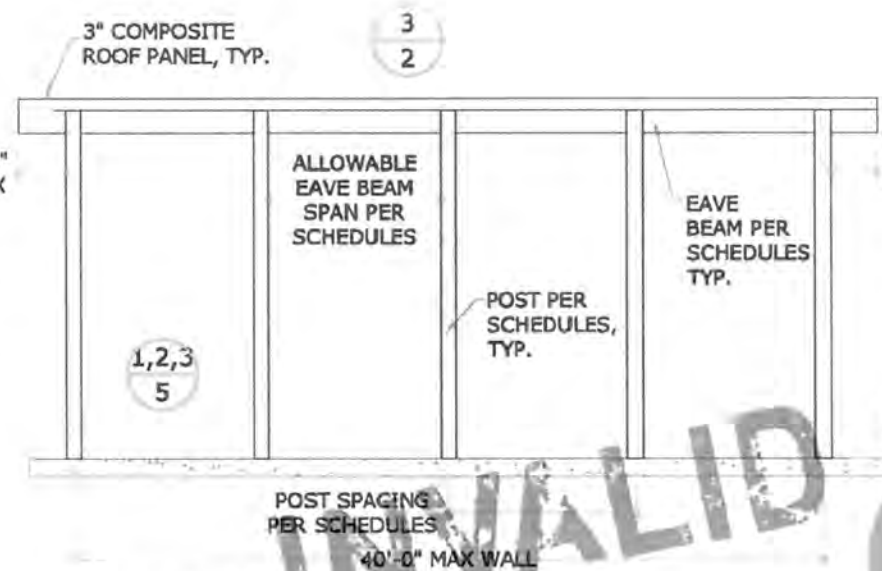
ENGINEERING EXPRESS
CORPORATE OFFICE:
160 SW 12th AVE, SUITE 106
DEERFIELD BEACH, FL 33442
P: (954) 354-0660 F: (954) 354-0443
E: HELLO@ENGINEERINGEXPRESS.COM
ENGINEERINGEXPRESS.COM

STRUCTALL BUILDING SYSTEMS, INC.
350 BURBANK RD
OLDSMAR, FL
(813) 855-2627
3IN AND 4IN OPEN PATIO SYSTEM
FREESTANDING AND LEAN-TO DESIGN

DRWN CHKD DATE
JAC FLB 01/24/18
REMARKS
UPDATE FOR 2017 FBC
THIS DOCUMENT IS THE PROPERTY OF ENGINEERING EXPRESS, AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF ENGINEERING EXPRESS. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.

COPYRIGHT ENGINEERING EXPRESS®
18-5566.2
SCALE: NTS UNLESS NOTED
1 OF 7

ALLOWABLE POST HEIGHT PER SCHEDULES
1'-0" MAX

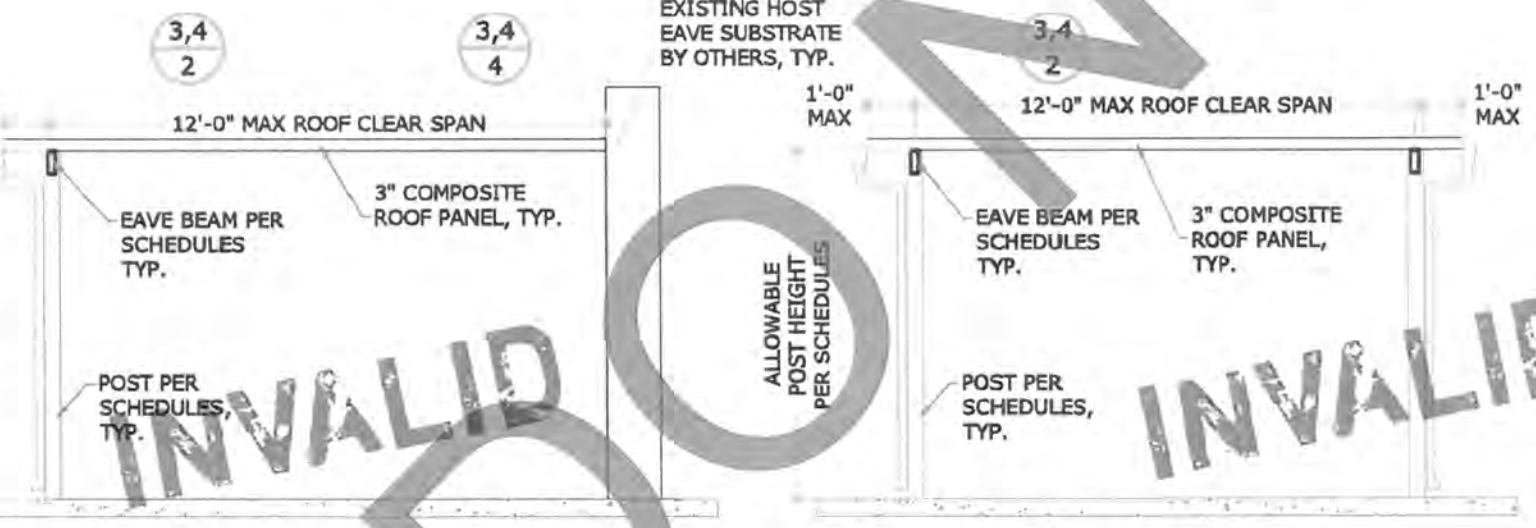


1 (FREE-STANDING)
1 1/4" = 1'-0" FRONT ELEVATION

1'-0" MAX

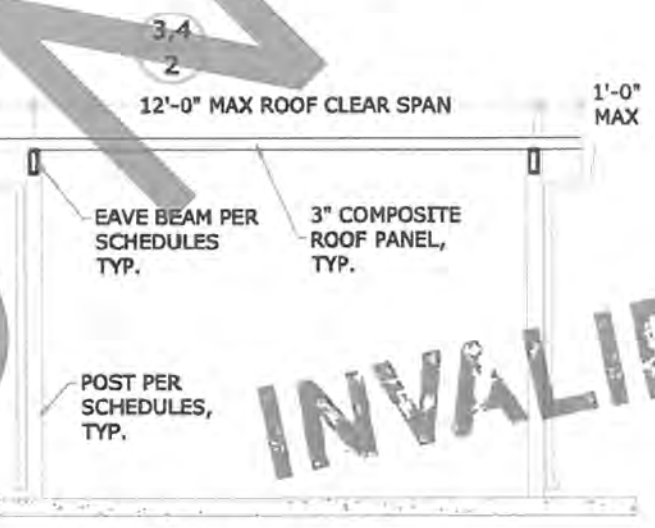
EXISTING HOST SUBSTRATE BY OTHERS, TYP.

ALLOWABLE POST HEIGHT PER SCHEDULES
1'-0" MAX



2 OPEN WALL SYSTEM (HOST ATTACHED)
1 1/4" = 1'-0" SECTION

ALLOWABLE POST HEIGHT PER SCHEDULES
1'-0" MAX



3 OPEN WALL SYSTEM (FREE-STANDING)
1 1/4" = 1'-0" SECTION

INVALID

ABOUT THIS DOCUMENT
ENGINEER-CERTIFIED ORIGINALS, VARIATIONS & MORE INFORMATION CAN BE FOUND BY VISITING ENGINEERINGEXPRESS.COM/STORE OR BY SCANNING OR USING THE WEB ADDRESS FOUND HERE >

THIS DOCUMENT NOT VALID WITHOUT ORIGINAL ENGINEER CERTIFICATION

SCAN HERE:

OR, GO TO EALC.IO/185566