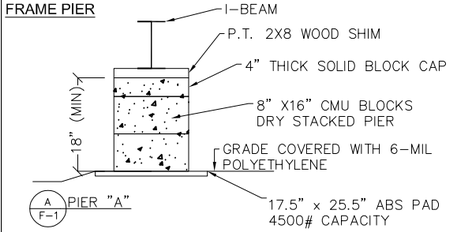
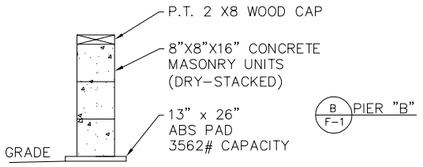
FRAME PIER



NOTE: PIER TYPE "A" HAS A MAXIMUM HEIGHT OF 32" FROM GRADE TO TOP OF P.T. 2 X 8

SIDE WALL PIER



NOTE: PIER TYPE "B" HAS A MAXIMUM HEIGHT OF 48" FROM GRADE TO TOP OF P.T. 2 X 8

TIE DOWN STRAP SPECIFICATION

ALL TIE– DOWN STRAPS, ETC., SHALL BE TYPE 1 FINISH B, GRADE 1, STEEL STRAPPING 109,000 MINIMUM YIELD STRENGTH, .035" MINIMUM THICKNESS (PLUS OR MINUS .002 IN.–0.05MM) FINISH B – HOT–DIPPED GALVANIZED ZINC COATING (ASTM STANDARD 123– 89A): .6 OUNCES PER SQUARE FOOT PER SURFACE, 4750 POUNDS MINIMUM BREAK STRENGTH, MARKED EVERY 12 TO 15 INCHES (MANUFACTURER'S NAME AND ASTM SPEC. D3953–31), 1 1/4" WIDTH.

GROUND ANCHOR SPECIFICATIONS

GROUND ANCHOR SHALL HAVE A MINIMUM WORKING LOAD OF 3150# AND A MINIMUM 4725 ULTIMATE LOAD CAPACITY. ASTMA–36 (GROUND ANCHORS) MINUTE MAN ANCHOR– GALVANIZED AUGER 5/8" X 48" SHAFT WITH SINGLE 6" DISC (48 INCH MINIMUM ANCHOR SHAFT EMBEDMENT)

FBC- RESIDENTIAL R404.1.9

ISOLATED MASONRY PIERS– HOLLOW MASONRY PIERS SHALL HAVE A MINIMUM NOMINAL THICKNESS OF 8 INCHES WITH A NOMINAL HEIGHT NOT EXCEEDING FOUR TIMES THE NOMINAL THICKNESS AND A NOMINAL LENGTH NOT EXCEEDING THREE TIMES THE NOMINAL THICKNESS. WHERE HOLLOW MASONRY UNITS ARE SOLIDLY FILLED WITH CONCRETE OR GROUT, PIERS SHALL BE PERMITTED TO HAVE A NOMINAL HEIGHT NOT EXCEEDING TEN TIMES THE NOMINAL THICKNESS.

PIER CAP– HOLLOW MASONRY PIERS SHALL BE CAPPED WITH 4 INCHES OF SOLID MASONRY OR CONCRETE, A MASONRY CAP BLOCK, OR SHALL HAVE CAVITIES OF THE TOP COURSE FILLED WITH CONCRETE OR GROUT.

FOUNDATION NOTES:

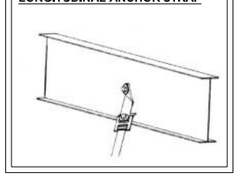
1. BLOCKING SPACING BASED ON 20PSF LIVE LOAD ON ROOF AND 1500 PSF SOIL BEARING CAPACITY.
2. CONCRETE BLOCKS ARE ONLY RATED AT 8000 POUNDS, 8000 POUNDS PIERS OR HIGHER MUST BE DOUBLE BLOCKED.
3. ALL SIDEWALLS ANCHORS ARE SPACED PER PLAN AND FOUR FOOT GROUND ANCHOR MAY BE USED.
4. ALL THE MASONRY PIERS MAY BE INSTALLED IN A DRY STACK SUBJECT TO LOCAL JURISDICTION.
5. ALL TIE DOWN ANCHORS SHALL HAVE A MINIMUM 4,725 LB. ULTIMATE CAPACITY AND SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
6. THE STEEL FRAME OF HOME IS NOT FOR USE OF RELOCATION OF HOME AFTER SETUP, AND IS INTENDED FOR USE AS A PERMANENT FOUNDATION.
7. ALL PIERS SHOULD BE CONSTRUCTED OF 8"X8"X16" CONCRETE MASONRY UNITS CONFORMING TO ASTM C90
8. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS.
9. I–BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90 DEGREES FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). MUST BE LOCATED DIRECTLY BELOW THE I–BEAM CENTERLINE.
10. WOOD SHIMS MAY BE INSTALLED WHEN NECESSARY BETWEEN THE I–BEAM AND THE TOP OF THE PIER, SHIMS SHALL BE FREE OF KNOTS, SPLITS, AND SIMILAR IMPERFECTIONS. SHIMS SHALL BE P.T. LUMBER, CEDAR, OR ABS AND BEARING AT ALL CONTACT POINTS SHALL NOT BE LESS THAN 2/3 OF THE BEARING PRIOR TO ADDING THE SHIMS.

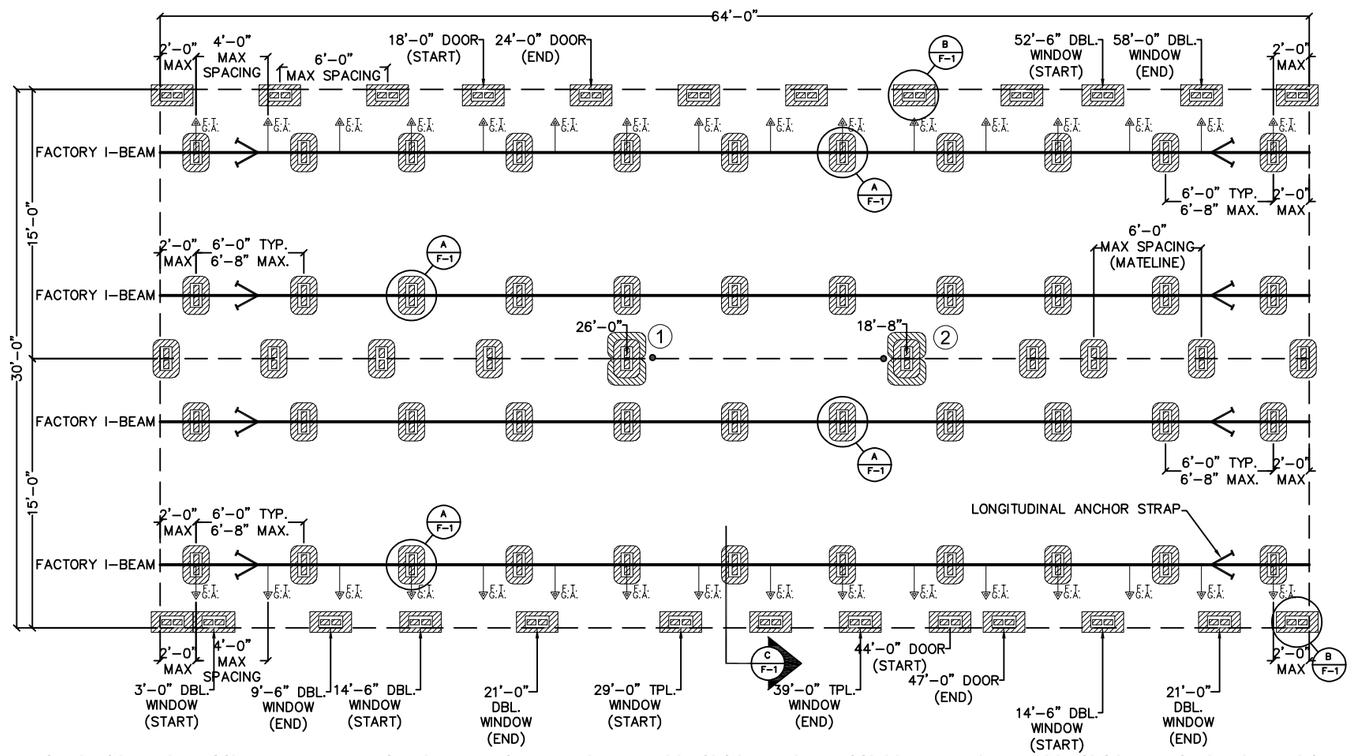
STRUCTURAL LOAD LIMITATIONS:

CODE EDITION: 2020 FLORIDA BUILDING CODE (7TH EDITION) & ASCE 7–16

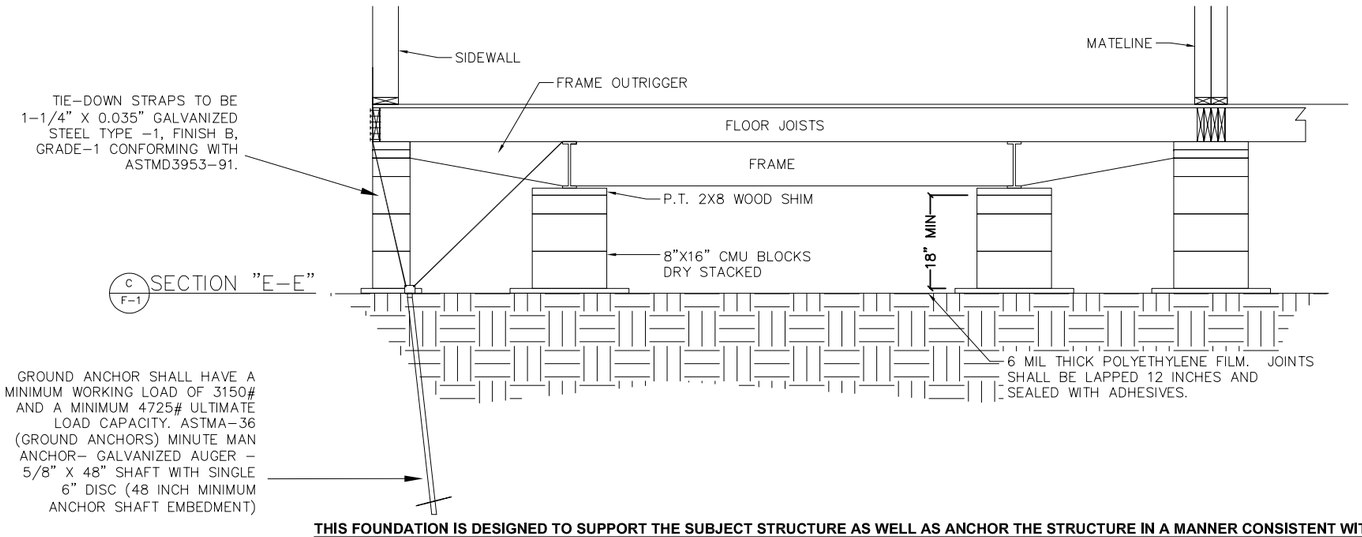
1. ULTIMATE DESIGN WIND SPEED: 120 MPH WIND SPEED
2. NOMINAL DESIGN WIND SPEED: 93 MPH WIND SPEED
3. WIND EXPOSURE CATEGORY: "C"
4. IMPORTANCE FACTOR: 1.0
5. DESIGN ROOF LIVE LOAD : 20 PSF
6. DESIGN FLOOR LIVE LOAD: 40 PSF
7. MIN. ASSUMED SOIL BEARING CAPACITY : 1500 PSF
8. OCCUPANCY CLASSIFICATION: R3
9. CONSTRUCTION TYPE: VB
10. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT IN A HIGH VELOCITY HURRICANE ZONE AS DEFINED BY THE FBC
11. THIS BUILDING IS NOT DESIGNED TO BE SUBMERGED OR SUBJECTED TO WAVE ACTION WHEN LOCATED IN A FLOOD PRONE OR ZONE AREA. THE BOTTOM OF THE STRUCTURAL I–BEAM MUST BE LOCATED ABOVE THE BUILDING SITE FLOOD PLANE LEVEL FOR THIS BUILDING TO BE LOCATED IN A FLOOD PRONE OR ZONE AREA OR THE GRADE AT THE BUILDING SITE MUST BE ABOVE THE FLOOD PLANE LEVEL.

LONGITUDINAL ANCHOR STRAP





THE TIE-DOWN STRAPS ARE INSTALLED BY THE MANUFACTURER, AND THEREFORE THE LOCATION OF THE STRAPPING COULD AFFECT THE LOCATION OF THE PIERS BASED UPON THE PROVIDED FOUNDATION PLAN. THE PERIMETER PIERS MAYBE OFFSET FROM THE DESIGN LOCATION IF THEY INTERFERE WITH THE TIE-DOWN STRAP PERIMETER PIERS MUST BE INSTALLED AT ALL PERIMETER PIERS LABELS SPECIFIED BY MANUFACTURER



THIS FOUNDATION IS DESIGNED TO SUPPORT THE SUBJECT STRUCTURE AS WELL AS ANCHOR THE STRUCTURE IN A MANNER CONSISTENT WITH THE 2020 FBC REQUIREMENTS FOR A SITE BUILT PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK V. RICHTER, P.E. #56196 ON THE DATE AND/OR TIME USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY THIRD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY.
(FAC 61G15–23.004)

12–20–2022

SENYB ENGINEERING, LLC
CA LIC. NO: 30244

COLUMN LOADS:

(1) = 4620 LBS.
(2) = 4620 LBS.

SYMBOLS

- 17.5"x25.5" ABS PAD = 4500 LBS. CAPACITY
- 24"x24" ABS PAD = 6000 LBS. CAPACITY
- (3) 17.5"x25.5" ABS PAD = 9000 LBS. CAPACITY (TOP PAD IS LAID IN THE OPPOSITE DIRECTION TO THE BOTTOM PADS)
- 13"x26" ABS PAD = 3562 LBS. CAPACITY
- F.T. G.A. –FRAME TIE–DOWN FASTENED TO GROUND ANCHOR
- –COLUMN ANCHOR STRAP FASTENED TO GROUND ANCHOR
- –LONGITUDINAL ANCHOR STRAP LOCATIONS

Digitally signed by Mark V Richter
DN: c=US, o=North Carolina, dnQualifier=A01410C00000 17B12CD491E00010776, cn=Mark V Richter
Date: 2022.12.20 17:55:37 -05'00'

Senyb Engineering Services
50 W. Central Ave.
Suite B
Lake Wales, FL 33859
Office: 863-589-5980
Email: engineer@senybengineering.com
www.senybengineering.com

THESE STANDARDS AND PLANS MEET
THE 2020 F.B.C. - RESIDENTIAL (7th EDITION)- EXPOSURE "C"

V_{ULT} =ULTIMATE DESIGN WIND SPEED = 120 MPH (RISK CATEGORY II BUILDING)
V_{ASD} =NOMINAL DESIGN WIND SPEED = 93 MPH (RISK CATEGORY II BUILDING)
(TABLE 1609.3.1)

MARK V. RICHTER, P.E. # 56196
50 W. CENTRAL AVE. SUITE B
LAKE WALES, FL 33853
OFFICE: 863-589-5980

C & G MOBILE HOMES

SES SENYB ENGINEERING SERVICES
An Engineering and Design Company

DRAWING INFORMATION
NAME: C.C.C.
DATE: 12-20-2022
SCALE: NOT PRINTED TO SCALE

CUSTOMER: BRIAN LUCAS
ADDRESS: 2639 SW CR. 242, LAKE CITY, FL 32024
MANUFACTURER: DEER VALLEY HOMEBUILDERS- 30' X 64' (ON-FRAME)
FOUNDATION PLAN
PROVIDED BY
Senyb Engineering Services
LAKE WALES, FLORIDA 33853

DESIGNED FOR 20 PSF ROOF LIVE LOAD AND 1500 PSF SOIL BEARING CAPACITY

F-1

SHEET 1 OF 1