

PERMIT APPLICATION / MANUFACTURED HOME INSTALLATION APPLICATION

For Office Use Only (Revised 7-1-15) Zoning Official LW Building Official 41970
 AP# 49011 Date Received 4/12/21 By MB Permit # _____
 Flood Zone X Development Permit _____ Zoning A-3 Land Use Plan Map Category Ag
 Comments _____

FEMA Map# _____ Elevation _____ Finished Floor _____ River _____ In Floodway _____
☐ Recorded Deed or ☒ Property Appraiser PO ☐ Site Plan ☒ EH # 21-0301 ☐ Well letter OR
☒ Existing well ☐ Land Owner Affidavit ☒ Installer Authorization ☐ FW Comp. letter ☒ App Fee Paid
☐ DOT Approval ☐ Parent Parcel # _____ ☐ STUP-MH _____ ☒ 911 App
☐ Ellisville Water Sys ☒ Assessment owed ☐ Out County ☒ In-County ☒ Sub VF Form

Property ID # 22-75-16-04291-016 Subdivision _____ Lot# _____

▪ New Mobile Home _____ Used Mobile Home ☒ MH Size 14x70 Year 1992

▪ Applicant Chad Jones Phone # 386-623-2830

▪ Address 504 SW Horseshoe loop Ft White FL 32038

▪ Name of Property Owner Chad E Jones Phone# 386-623-2830

▪ 911 Address 560 SW Horseshoe loop Ft White FL

▪ Circle the correct power company - FL Power & Light - Clay Electric
 (Circle One) - Suwannee Valley Electric - Duke Energy

▪ Name of Owner of Mobile Home Chad Jones Phone # 386-623-2830

Address 504 SW Horseshoe loop Ft White FL 32038

▪ Relationship to Property Owner Self

▪ Current Number of Dwellings on Property 0 3

▪ Lot Size _____ Total Acreage 3.36

▪ Do you : Have Existing Drive or Private Drive or need Culvert Permit or Culvert Waiver (Circle one)
(Currently using) (Blue Road Sign) (Putting in a Culvert) (Not existing but do not need a Culvert)

▪ Is this Mobile Home Replacing an Existing Mobile Home NO

▪ Driving Directions to the Property Home on property for pre inspection
home was unlocked -
Removing back bathroom

▪ Name of Licensed Dealer/Installer Glenn Williams Phone # 386-344-3667

▪ Installers Address 660 SE Putnam St Lake City, FL 32025

▪ License Number 1N1054858 Installation Decal # 78491

jonesfencing@aol.com

MOBILE HOME INSTALLATION SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____ CONTRACTOR Jones PHONE _____

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name <u>Chad Jones</u> License #: <u>owner</u> Qualifier Form Attached ☐	Signature <u>[Signature]</u> Phone #: <u>386-623-2830</u>
MECHANICAL/ A/C _____	Print Name <u>Chad Jones</u> License #: <u>owner</u> Qualifier Form Attached ☐	Signature <u>[Signature]</u> Phone #: <u>386-623-2830</u>

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Columbia County Property Appraiser

Jeff Hampton

2021 Working Values

updated: 4/8/2021

Parcel: << **22-7S-16-04291-016 (22694)** >>

Owner & Property Info

Result: 1 of 1

Owner	JONES CHAD E JONES CHRISTINA M 504 SW HORSESHOE LP FORT WHITE, FL 32038		
Site	560 HORSESHOE LOOP, FORT WHITE		
Description*	W1/2 OF SW1/4 OF SE1/4 OF SW1/4 EX THE W 110 FT. 661-703, 967-2346,		
Area	3.36 AC	S/T/R	22-7S-16
Use Code**	PASTURE CLS33 (6200)	Tax District	3

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.

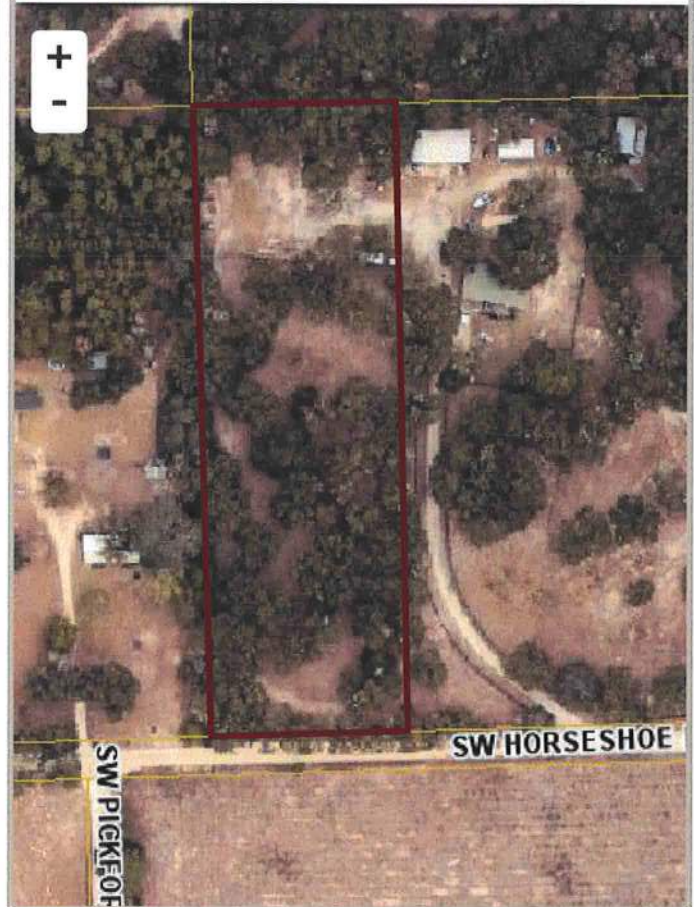
**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2020 Certified Values		2021 Working Values	
Mkt Land	\$0	Mkt Land	\$0
Ag Land	\$813	Ag Land	\$813
Building	\$0	Building	\$0
XFOB	\$0	XFOB	\$0
Just	\$14,214	Just	\$14,214
Class	\$813	Class	\$813
Appraised	\$813	Appraised	\$813
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$813	Assessed	\$813
Exempt	\$0	Exempt	\$0
Total Taxable	county:\$813 city:\$813 other:\$813 school:\$813	Total Taxable	county:\$813 city:\$0 other:\$0 school:\$813

Aerial Viewer Pictometry Google Maps

☒ 2019 ☐ 2016 ☐ 2013 ☐ 2010 ☐ 2007 ☐ 2005 ☐ Sales



▼ Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Qualification (Codes)	RCode
11/12/2002	\$12,000	0967/2346	WD	V	Q	
9/1/1988	\$6,000	0661/0703	PR	V	U	

▼ Building Characteristics

Bldg Sketch	Description*	Year Blt	Base SF	Actual SF	Bldg Value
NONE					

▼ Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims
NONE					

▼ Land Breakdown

Code	Desc	Units	Adjustments	Eff Rate	Land Value
6200	PASTURE 3 (AG)	3.360 AC	1.0000/1.0000 1.0000/ /	\$242 /AC	\$813
9910	MKT.VAL.AG (MKT)	3.360 AC	1.0000/1.0000 1.0000/ /	\$4,230 /AC	\$14,214

Legend

Water Lines

- Others
- CANAL / DITCH
- CREEK
- STREAM / RIVER

Parcels

Roads

- Roads
- others
- Dirt
- Interstate
- Main
- Other
- Paved
- Private

2018Aerials



Columbia County, FLA - Building & Zoning Property Map

Printed: Mon Apr 12 2021 10:06:37 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 22-7S-16-04291-016

Owner: JONES CHAD E

Subdivision:

Lot:

Acres: 3.11818624

Deed Acres: 3.36 Ac

District: District 2 Rocky Ford

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

All data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance, and update.



STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 21-0301
DATE PAID: 3/29/11
FEE PAID: 60.00
RECEIPT #: 14472032

APPLICATION FOR:

[] New System [x] Existing System [] Holding Tank [] Innovative
[] Repair [] Abandonment [] Temporary []

APPLICANT: Edad E Jones

AGENT:

TELEPHONE: 386-423-2828

MAILING ADDRESS: 560 SW Horseshoe Loop Ft White FL
32038

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: _____ BLOCK: 22-75-16 SUBDIVISION: _____ PLATTED: _____

PROPERTY ID #: 04291-014 ZONING: A6 I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: 3.34 ACRES WATER SUPPLY: [x] PRIVATE PUBLIC [] <=2000GPD [] >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] DISTANCE TO SEWER: 15 FT

PROPERTY ADDRESS: 560 SW Horseshoe Loop Ft White FL

DIRECTIONS TO PROPERTY: Hwy 47 to Cor 138 turn L go to 2nd horseshoe loop on Rt take Rt go around 90° curve 2nd Gate on Rt.

BUILDING INFORMATION

[x] RESIDENTIAL [] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	<u>Trailer/House</u>	<u>2</u>	<u>1036</u>	<u>No orig found</u>
2				
3				
4				

[] Floor/Equipment Drains [] Other (Specify) _____

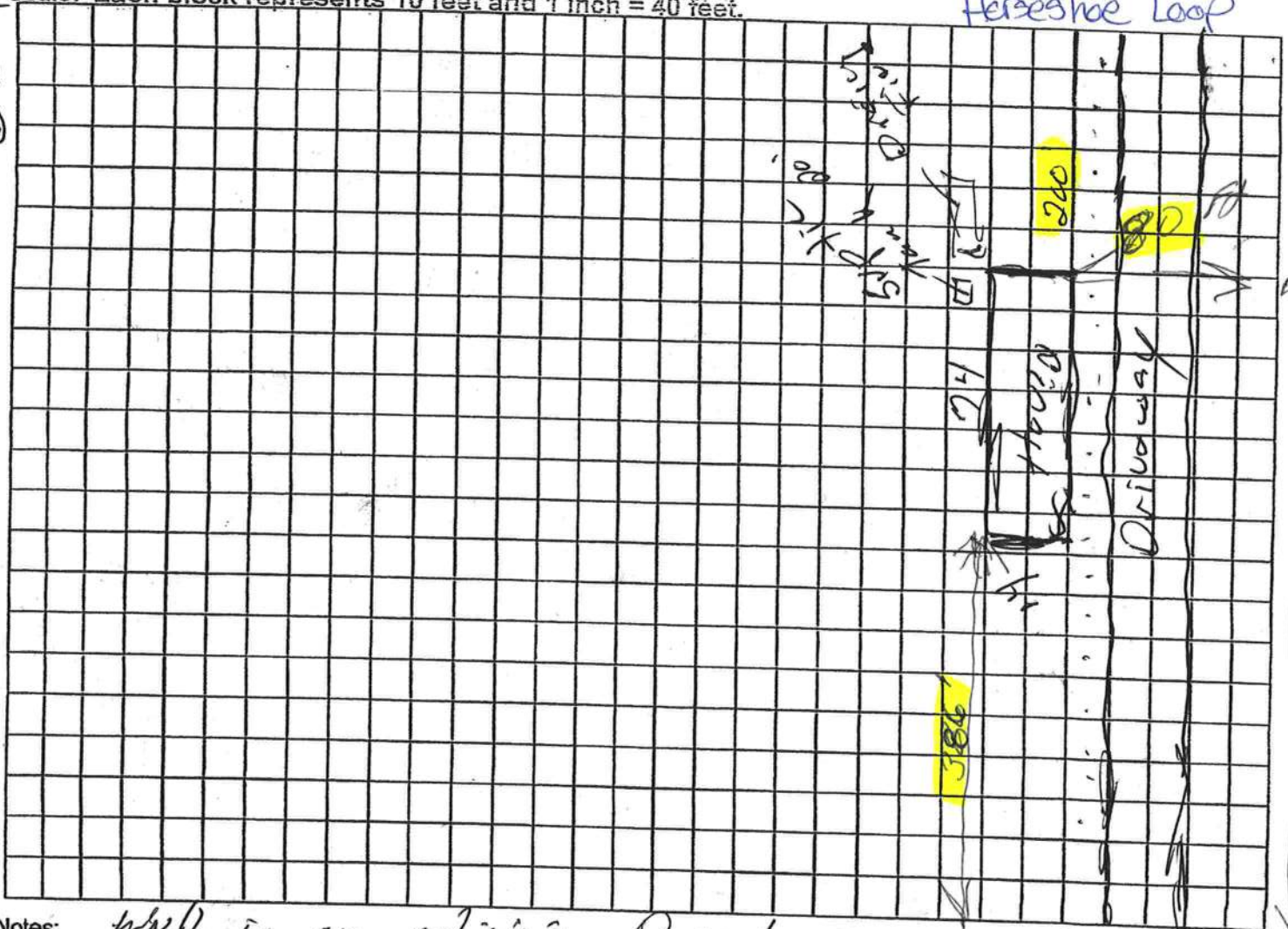
SIGNATURE: [Signature] DATE: 2/22/11

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 21-0301

----- PART II - SITEPLAN -----

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: well is on adjoining Property I own G/50.

Site Plan submitted by: Chad Jones

TITLE OWNER

DATE: 2-22-21

Plan Approved X

Not Approved _____

Date 4/6/21

By _____

Columbini

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

District No. 1 - Ronald Williams
District No. 2 - Rocky Ford
District No. 3 - Bucky Nash
District No. 4 - Toby Witt
District No. 5 - Tim Murphy



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

To maintain the county wide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for addressing and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Services Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County

Date/Time Issued: **1/25/2021 4:15:10 PM**
Address: **560 SW HORSESHOE Loop**
City: **FORT WHITE**
State: **FL**
Zip Code **32038**

Parcel ID **04291-016**

REMARKS: Address for proposed structure on parcel.

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION AND ACCESS INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION AND/OR ACCESS INFORMATION BE FOUND TO BE IN ERROR OR CHANGED, THIS ADDRESS IS SUBJECT TO CHANGE.

Address Issued By: **Signed:/ Matt Crews**

Columbia County GIS/911 Addressing Coordinator

**COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT**

**263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com**



State of Georgia

F.O.B. 828

Douglas, Georgia 31533

Plant Number 007

Date of Manufacture HUD No

1-21-90

QED 673365

Manufacturer's Serial Number and Model Unit Designation

GAFLH07A23930-EM 2762B

Design Approval by (D.A.P.L.A.)

Radio

This manufactured home is designed to comply with the federal manufactured home construction and safety standards in force at time of manufacture.
(For additional information, consult owner's manual.)

The factory installed equipment includes:

Equipment	Manufacturer	Model Designation
For heating	Coleman	7956C856
For air cooling	XXX	
For cooking	Magic Chef	U 31FA 7
Refrigerator	Magic Chef	RB15LA 0A
Water heater	Rheem	71 30S
Washer		
Clothes Dryer		
Dishwasher		
Garbage Disposal		
Fireplace		

DESIGN WIND
ZONE MAP

Zone I
Standard Wind
15 PSF Horizontal
9 PSF Uplift

Zone II
Hurricane Resistant
25 PSF Horizontal
18 PSF Uplift



DESIGN ROOF LOAD

ZONE MAP

North 40 PSF South 20 PSF
Middle 30 PSF Other 15 PSF



HEATING AND COOLING DESIGN BASIS CERTIFICATE

Your manufactured home has been designed to meet the minimum requirements of the International Building Code, 1990 Edition, ASHRAE 90.1-1989, and the National Manufactured Home Construction and Safety Act of 1974.

Heating equipment manufacturer and model (see list at left).
The above heating equipment has the capacity to maintain an average of 68 degrees in this home at outdoor temperatures of 5 degrees.
To maximize furnace operating economy and to conserve energy, it is recommended that this home be installed where the outdoor winter design temperature (see list at right) does not fall below 25 degrees Fahrenheit.
The above information has been obtained according to a questionnaire sent recently or to high or standard atmospheric pressure.

COMFORT COOLING

☐ Air conditioner provided at factory (Alternate I)

Air conditioner manufacturer and model (see list at left).

Certified capacity _____ B.T.U. hour is accordance with the appropriate air conditioning and refrigeration standards.
The central air conditioning system provided in this home has been sized according to orientation of the front (facing east) of the home facing _____ To this house the system is designed to maintain an indoor temperature of 75-78 when outdoor

temperatures are _____ F dry bulb and _____ F wet bulb.

The temperature to which this home can be cooled will change depending upon the amount of exposure of the windows of this home to the sun's radiant heat. Therefore, the home's heat gains will vary dependent upon its orientation to the sun and any recommended shading provided. Information concerning the calculation of cooling loads at various locations, window exposures and shading is provided in Chapter 23 of the 1990 Edition of the ASHRAE Handbook of Fundamentals.

Information necessary to calculate cooling loads at various locations and orientations is provided in the special comfort cooling information provided with this home.

☒ Air conditioner not provided at factory (Alternate II)

The air distribution system of this home is suitable for the installation of central air conditioning.

The supply air distribution system installed in this home is sized for a mechanical home central air conditioning system of up to 39,600 B.T.U. per hour capacity which are certified in accordance with the appropriate air conditioning and refrigeration standards when the air circulators of such air conditioners are rated at 0.5 inch water column static pressure or greater for the cooling air delivered to the manufactured home supply air duct system.

Information necessary to calculate cooling loads at various locations and orientations is provided in the special comfort cooling information provided with this manufactured home.

☐ Air conditioning not recommended (Alternate III)

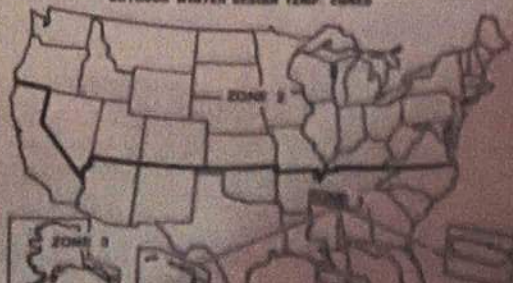
The air distribution system of this home has not been designed in anticipation of its use with a central air conditioning system.

INFORMATION PROVIDED BY THE MANUFACTURER NECESSARY TO CALCULATE SENSIBLE HEAT GAIN

Walls (without windows and doors)	✓ 0.12
Ceilings and roofs of light color	✓ 0.07
Ceilings and roofs of dark color	✓
Floors	✓ 0.14
Air ducts in floor	✓ 0.13
Air ducts in ceiling	✓
Air ducts installed outside the home	✓
The following are the duct areas in this home:	
Air ducts in floor	61 sq ft
Air ducts in ceiling	sq ft
Air ducts outside the home	0 sq ft

To determine the required capacity of equipment to cool a home sufficiently and economically, a cooling load (heat gain) calculation is required. The cooling load is dependent on the orientation, location and the structure of the home. Central air conditioners operate most efficiently and provide the greatest comfort when these capacity closely approximate the calculated cooling load. Each home's air conditioner should be sized in accordance with Chapter 23 of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Handbook of Fundamentals, once the location and orientation are known.

OUTDOOR WINTER DESIGN TEMP. ZONES



PERMIT WORKSHEET

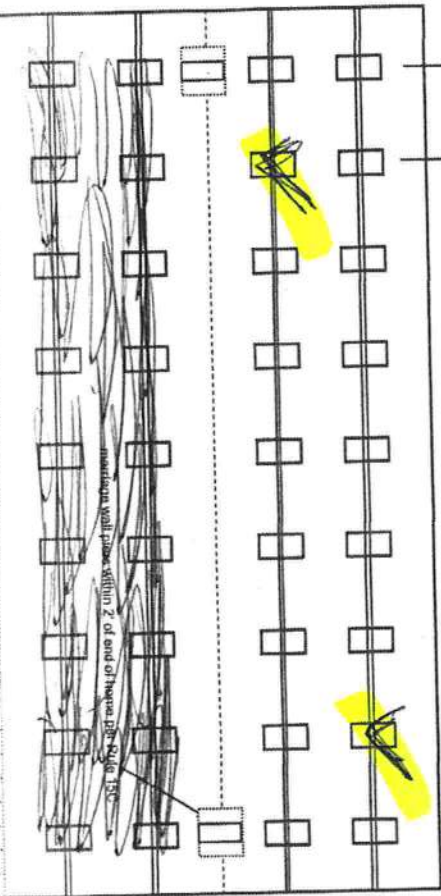
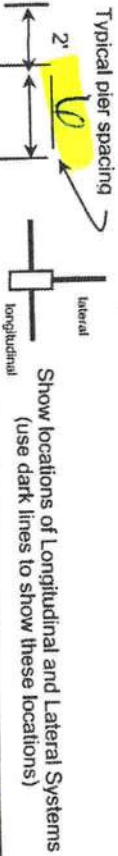
PERMIT NUMBER

Installer Glenn Williams License # 1H1051858
 Installer Mobile Phone # 352-3443669
 Address of home _____
 Being installed _____

Manufacturer Edman Length x width 14 X 66

NOTE: if home is a single wide fill out one half of the blocking plan
 if home is a triple or quad wide sketch in remainder of home

I understand Lateral Arm Systems cannot be used on any home (new or used)
 where the sidewall ties exceed 5 ft 4 in. Installer's initials GW



28 Frame Ties

New Home ☐ Used Home ☒

Home installed to the Manufacturer's Installation Manual

Home is installed in accordance with Rule 15-C

Single wide ☒ Wind Zone II ☒ Wind Zone III ☐

Double wide ☐ Installation Decal # 78491

Triple/Quad ☐ Serial # GAF4N07A23930-BM

Roof System: ☒ Typical ☐ Hinged

PIER SPACING TABLE FOR USED HOMES

Load bearing capacity (sq in)	16" x 16" (256)	18 1/2" x 18 (342)	20" x 20" (400)	22" x 22" (484)*	24" x 24" (576)*	26" x 26" (676)
1000 dsf	3'	4'	5'	6'	7'	8'
1500 dsf	4'6"	6'	7'	8'	8'	8'
2000 dsf	6'	8'	8'	8'	8'	8'
2500 dsf	7'6"	8'	8'	8'	8'	8'
3000 dsf	8'	8'	8'	8'	8'	8'
3500 dsf	8'	8'	8'	8'	8'	8'

* interpolated from Rule 15C-1 pier spacing table.

PIER PAD SIZES

I-beam pier pad size

17 X 25

Perimeter pier pad size

Other pier pad sizes (required by the mfg.)

Draw the approximate locations of marriage wall openings 4 foot or greater. Use this symbol to show the piers.

List all marriage wall openings greater than 4 foot and their pier pad sizes below.

Opening _____ Pier pad size _____

4 ft ☒ 5 ft

FRAME TIES

within 2' of end of home spaced at 5' 4" oc

TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD)

Manufacturer _____

Longitudinal Stabilizing Device w/ Lateral Arms

OTHER TIES

Number _____

Sidewall _____

Longitudinal _____

Shearwall _____

PERMIT NUMBER

PERMIT WORKSHEET

Page 2 of 2

POCKET PENETROMETER TEST

The pocket penetrometer tests are rounded down to 1500 psf or check here to declare 1000lb. soil without testing.

X 1500 X 1500 X 1500

POCKET PENETROMETER TESTING METHOD

1. Test the perimeter of the home at 6 locations.
2. Take the reading at the depth of the footer.
3. Using 500 lb. increments, take the lowest reading and round down to that increment.

X 1500 X 1500 X 1500

TORQUE PROBE TEST

The results of the torque probe test is 280 inch pounds or check here if you are declaring 5' anchors without testing. A test showing 275 inch pounds or less will require 4 foot anchors.

Note: A state approved lateral arm system is being used and 4 ft. anchors are allowed at the sidewall locations. 1 understand 5 ft anchors are required at all centerline the point where the torque test reading is 275 or less and where the mobile 1113 pneumatic manufacturer may requires anchors with 4000 lb holding capacity.

Installer's initials

ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER

Installer Name

Date Tested

2-27-21

Electrical

Plumbing

Connect all sewer drains to an existing sewer tap or septic tank. Pg.

Connect all potable water supply piping to an existing water meter, water tap, or other independent water supply systems. Pg.

Site Preparation

Debris and organic material removed Swale Pad other

Foundation multi wide units

Floor: Type Fastener Length Spacing
Walls: Type Fastener Length Spacing
Roof: Type Fastener Length Spacing
For used homes a min. 30 gauge, 8" wide, galvanized metal strip will be centered over the peak of the roof and fastened with galv. roofing nails at 2" on center on both sides of the centerline.

G-Kit - 11001129

Understand a properly installed gasket is a requirement of all new and used homes and that condensation, mold, mildew and buckled marriage walls are a result of a poorly installed or no gasket being installed. I understand a strip of tape will not serve as a gasket.

Installer's initials

Type gasket 60m
Pg. 103

Ins. talled: Between Floors Yes
Between Walls Yes
Bottom of ridge beam Yes

Weatherproofing

The bottomboard will be repaired and/or taped. Yes Pg.
Siding on units is installed to manufacturer's specifications. Yes
Fireplace chimney installed so as not to allow intrusion of rain water. Yes

Miscellaneous

Skirting to be installed. Yes No
Dryer vent installed outside of skirting. Yes N/A
Range downflow vent installed outside of skirting. Yes N/A
Drain lines supported at 4 foot intervals. Yes
Electrical crossovers protected. Yes
Other:

Installer verifies all information given with this permit worksheet is accurate and true based on the manufacturer's installation instructions and or Rule 15C-1 & 2

Installer Signature

Date 2-17-21



Installation Instructions for 1100 "V" Series All Steel Foundation System Wind Zones I & II

SPECIAL CIRCUMSTANCES: If following conditions occur - STOP! Contact Oliver Technologies at 1-800-284-7437 for further instructions:

- a) Pier (system) height exceeds 48" b) Roof eaves exceed 16" c) Roof pitch greater than 7/12 d) Location is within 1500 feet of coastline
e) Soil conditions less than 4B f) Thick and wide I Beam attachments are available.

INSTALLATION OF GROUND PAN FOR DIRT SET (IV)

- 1) Remove weeds and debris in an approximate three foot square to expose firm, level undisturbed soil or controlled fill for each ground pan. The 1100 V Pan is equivalent to a 21 x 21 footing. Top of ground pan (C) must be installed at ground level or per local jurisdiction.
- 2) Place center ground pan (C) directly below chassis I-beam. Press or drive pan completely into soil until flush with or below soil.

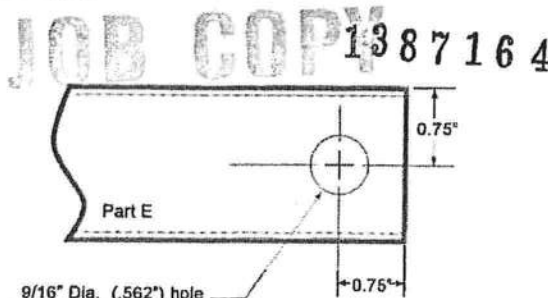
SPECIAL NOTE: The longitudinal "V" brace system serves as a pier under the home and should be loaded as any other pier. It is recommended that after leveling piers, and one-half inch (1/2") before home is lowered completely onto piers, complete items 3 through 7 below.

INSTALLATION OF LONGITUDINAL "V" BRACE SYSTEM

- 3) Select the correct square tube brace (E) length for set-up (pier) height at support location.

PIER HEIGHT (Approx. 40-60 degrees Max.)	1.5" Tube Length
14" to 18"	20"
18" to 25"	28"
24" to 35"	39"
30" to 40"	44"
36" to 48"	54"

PIER HEIGHT = the dimension from the top of the pan to the bottom of the I-Beam



- 4) Install both of the 1.5" square tubes (E) into the "V" bracket (J), insert carriage bolt and leave nut loose for final adjustment.
- 5) Place I-beam connector (F) loosely on the bottom flange of the I-beam.
- 6) Attach the selected 1.5" tubes (E) to the I-beam connectors (F) and fasten loosely with bolts and nuts. NOTE: The ground pan must be level in both directions to ensure the angle markings on the center point connector are correct from the horizontal plane of the pan. The angle is not to exceed 60 degrees and not less than 40 degrees. The "V" bracket (J) is stamped with the angles to verify correct degree. Use proper length tube or cut and drill tube to achieve proper length. (The tube may be cut using any appropriate steel cutting method such as steel saw, cutting torch, etc. New holes must be drilled to the dimension and at the location as shown for part (E).
- 7) Using standard hand tools, tighten all nuts and bolts. When connecting the brace tube to the model 1100-10-P I-beam connector bracket, tighten at least one and a half to two full turns past hand tight.

INSTALLATION OF (LATERAL) TELESCOPING TRANSVERSE ARM SYSTEM (1100 ITV)

- 8) Select the correct transverse arm (H). The 60" sections are standard. The 72" sections are used on frame widths greater than 99.5".
- 9) Install the 1.5" transverse brace (H) to the ground pan connector (D) with the bolt and nut.
- 10) Slide 1.25" transverse brace into the 1.5" brace and attach to adjacent I-beam connector (I) with bolt and nut.
- 11) Secure 1.5" transverse arm to 1.25" transverse arm using four (4) 1/4" - 14 x 3/4" self-tapping screws in pre-drilled pilot holes.

INSTALLATION USING CONCRETE (ICV)

The concrete footer, runner or slab may be of any shape, that has a minimum of 2900 cu. in., with a minimum depth of 3.5" (dry set) or 6" (wet set), at each system location. The surface of the footing shall be large enough to support the pier load and allow at least 4" from the concrete bolt to the edge of the concrete (ie. 22"x22"x6" footer). The concrete shall be a minimum of 2500 psi mix (pre-blended sacked concrete mix is acceptable). Special inspection of footing is not required. If the 1100 ITC transverse system, (D (W or D) bracket only) is to be installed without the use of the 1100 ILC (V) longitudinal system (J (W or D) bracket), it MUST be installed within 18" of pier.

NOTE: The bottom of all footings, pads, slabs and runners must be per local jurisdiction.

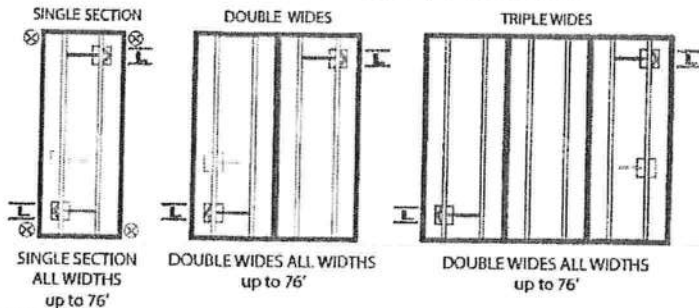
LONGITUDINAL (V)

When using the 1100 wet set J(W) bracket, simply install the bracket in runner/footer OR when installing in cured concrete, use the 1100 dry set J(D) bracket. The 1100 dry set J(D) bracket is attached to the concrete using (2) 1/2" X 3" concrete wedge bolts. Place the bracket in desired location. Mark bolt hole locations, then using a 1/2" masonry bit, drill a hole to a minimum depth of 3". Be sure all dust is blown out of the holes. Place wedge bolts into drilled holes, then place 1100 J(D) bracket onto wedge bolts and start wedge bolt nuts. Take a hammer and lightly drive the wedge bolts down by hitting the nut (Do not hit the top of threads on bolt). Complete by tightening the nuts.

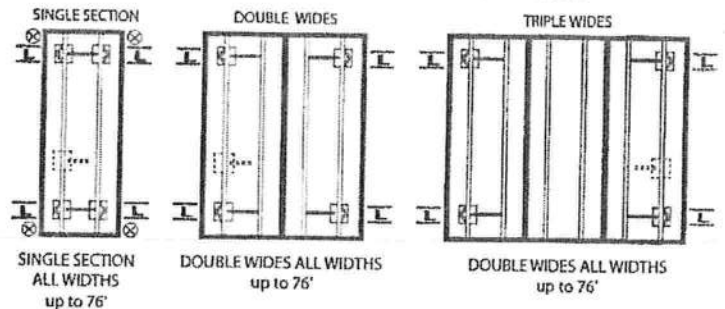
LATERAL (Transverse Arm)

For wet set installation set the transverse connector bracket D(W) into runner/footer at desired location. For dry set installations, the transverse connector bracket D(D) is attached to the concrete using (2) 1/2" X 3" concrete wedge bolts. Mark bolt hole locations, then using a 1/2" masonry bit, drill a hole to a minimum depth of 3". Be sure all dust is blown out of the holes. Place wedge bolts into drilled holes, then place transverse connector bracket J(D) bracket onto wedge bolts and start wedge bolt nuts. Take a hammer and lightly drive the wedge bolts down by hitting the nut (Do not hit the top of threads on bolt.) Complete by tightening the nuts.

REQUIRED NUMBER AND LOCATION OF MODEL 1100 "V" SERIES BRACES FOR 4/12 & 5/12



REQUIRED NUMBER AND LOCATION OF MODEL 1100 "V" SERIES BRACES FOR 6/12 & 7/12



LEGEND:

(Length of house is actual box size)

1. - - Approximate location of the system (See note H)
2. - - Location of ASF Model 1100 "V" (Lateral and Longitudinal Bracing) or 1100 T (Lateral only)
3. - - Location of additional ASF Model 1100 T "V" System (Lateral only) for homes exceeding 76' in length or with roof pitch between 4.37/12 (20 degrees) and 5/12, the additional system is to be installed at approximately the midpoint of the house and may be installed at either exterior beam.
4. - - Installation of single wide homes require two (2) anchors per side located not more than ten (10) feet from each end (with a minimum of 3150 load rating)
5. - - Location of additional ASF Model 1100 T "V" System (Lateral only) for homes exceeding 76' in length, sidewall height exceeding 96' or with roof pitch between 6/12 & 7/12 the additional system is to be installed at approximately the midpoint of the house and may be installed at either exterior beam.

NOTE:

- a) Installation of the longitudinal system eliminates the need for the longitudinal anchors.
- b) Installation of the transverse system eliminates the need for all anchors, diagonal frame ties and stabilization plates except when noted. (Legend #5 & note C)
- c) All other home manufacturer's instructions for installation of stabilizing devices must be followed, including installation of vertical tie-down anchors, and mating line column, shear wall or center-line tie-down anchors. **NOTE WIND ZONE II: ALL VERTICAL ANCHORS (NOT TO EXCEED 8' SPACING) MUST BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS!**
- d) If the home manufacturer's installation instructions are not available, the home must be installed in accordance with any state promulgated rules or as required by the authority having jurisdiction.
- e) If bolts, nuts and tech screws are lost, they may be replaced as long as they meet or exceed the specs for OTI ASFS hardware.
- f) When the length of home exceeds 76'; sidewall height exceeds 96" or the roof pitch is between 4.37/12 (20 degrees) and 5/12, add 1 transverse system (see location diagrams above) 6/12: a total of 4 Transverse & 3 Longitudinal systems are needed & 7/12: a total of 5 Transverse & 3 Longitudinal systems are needed. (Longitudinal portion only required when longitudinal bracing is required by home manufacturer).
- g) An alternative method using the 1100 CVD anchors (dry set) or 1100 CVW (wet set) may be used on a footing size of 16" diameter X 24" depth. These brackets are designed for lateral and longitudinal protection.
- h) It is recommended that the systems be installed at the 2nd pier in from each end of the house. However, they may be installed at any location at least 2 feet, but not more than 1/4 the house length, in from the ends of the home.

STATE OF MICHIGAN ONLY: As required by Section 1805.2 of the 200 Michigan Building Code, the depth of the footer shall be a minimum depth of 42 inches below grade, except that the authority having jurisdiction may approve a lesser depth based on known prevailing soil and weather conditions, or as provided by the exception under Section 1805.2.1 of the Code.

STATE OF ALABAMA ONLY: Maximum pier height is limited to 32" with pier defined in the Alabama Regulation as "that portion of the support system between the top of the footing and the bottom of the pier cap."

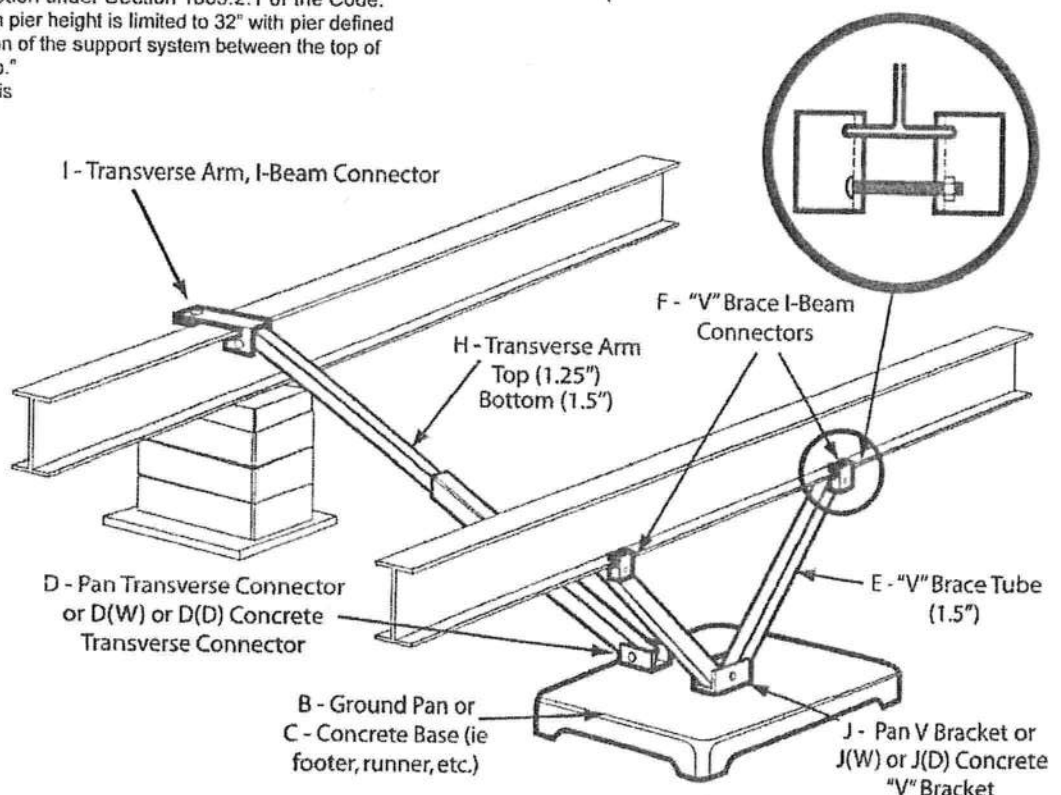
The State of Alabama limits the use of this system to H.U.D labeled homes.

STATE OF NORTH CAROLINA ONLY:

Tubing must be galvanized and, when the manufacturer's installation instructions are not available, vertical wall tie-downs must be installed not to exceed 8-feet on center. (Wind Zone II)

STATE OF IDAHO ONLY:

Concrete must be a minimum of 8" in depth.



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Installation Instructions for ABS Pads **For use on all Mobile and Manufactured Homes, including** **HUD approved Homes and Modular Building** **Patent #5503500 and other patents pending**

GENERAL INSTRUCTIONS:

1. All pads are to be installed flat side down, ribbed side up.
2. The ground under the pads should be leveled as smooth as possible with all vegetation removed. Pads to be placed on fully compacted or undisturbed soil, at or below the frost-line or otherwise protected from the effects of frost. Refer to NCSBCS/ANSI A225.1
3. Pier & pad spacing will be determined by the manufactured homes' written set-up instructions or any local or state codes.
4. The open cells between the ribbing on the upper side of the pads may be filled with soil or sand after installation to prevent any accumulation of stagnant water in the pads.
5. A pocket penetrometer may be used to determine the actual soil bearing value. If no soil testing equipment is available – use an assumed soil value of 1000 lbs. / square foot.
6. All pad sizes shown are nominal dimensions and may vary up to 1/8".
7. The maximum deflection in a single pad is 5/8" measured from the highest point to the lowest point of the top face.
(NOTE: Actual test results were less than 5/8")
8. Pad loads are the same when using single stack or double stack blocks.
9. The maximum load at any intermediate soil value may be determined as the average of the next lower and next higher soil value given in the table below.
10. If the home manufacturer shows soil densities greater than 3000 lbs. When using ABS pads, do not exceed 3000 lbs. soil pier spacings per set up manual.

PAD SIZE	ID NO.	PAD AREA	1000 PSF SOIL	2000 PSF SOIL	3000 PSF SOIL
Oval 16" x 18.5"	1055-23/AIT-06-1000	288 sq. in.	2000 lbs.	4000 lbs.	6000 lbs.
Oval 17" x 22"	1055-16/AIT-06-1001	360 sq. in.	2500 lbs.	5000 lbs.	7500 lbs.
Oval 17.5" x 22.5"	1055-21	384 sq. in.	2667 lbs.	8000 lbs.	8000 lbs.
Oval 17.5" x 25.5"	1055-17/AIT-06-1002	432 sq. in.	3000 lbs.	6000 lbs.	9000 lbs. *
Oval 21" x 29"	1055-22/AIT-06-1003	576 sq. in.	4000 lbs.	8000 lbs. *	12000 lbs. *
Oval 23.25" x 31.25"	1055-20/AIT-06-1004	675 sq. in.	4694 lbs.	9388 lbs. *	9388 lbs. *

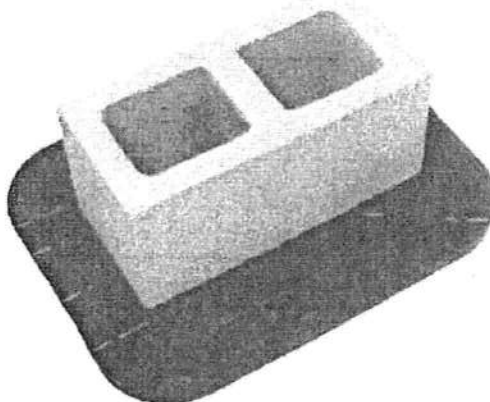
PAD SIZE	ID NO.	PAD AREA	1000 PSF SOIL	2000 PSF SOIL	3000 PSF SOIL
Square 16" x 16"	1055-14/AIT-06-1005	256 sq. in.	1785 lbs.	3560 lbs.	5333 lbs.
Square 18.5" x 18.5"	1055-9/AIT-06-1006	342 sq. in.	2375 lbs.	4750 lbs.	7100 lbs. *
Square 20" x 20"	1055-7/AIT-06-1007	400 sq. in.	2750 lbs.	5500 lbs.	8250 lbs. *
Square 24" x 24"	1055-13/AIT-06-1008	576 sq. in.	4000 lbs.	8000 lbs. *	8000 lbs. *

* Concrete blocks are required to be double blocked.

11. Any ABS pad configuration may be used to replace a home manufacturer's recommended concrete or wood base pad.
12. **ALABAMA ONLY:** The 23.25" x 31.25" ID#1055-20 may not be installed in the State of Alabama.
For the State of Alabama all ABS pads shall not have more than 3/8" deflection. See chart below for details on correct installation in Alabama.

EXAMPLE: 16' x 80' section (Alabama only)

PAD SIZE	1000 PSF	2000 PSF
Oval 16" x 18.5"	2'9"	5'6"
Oval 17" x 22"	3'0"	6'0"
Oval 17.5" x 22.5"	3'9"	7'6"
Oval 17.5" x 25.5"	4'0"	8'0"
Oval 21" x 29"	4'5"	8'0"
Oval 23.25" x 31.25"	6'0"	8'0"





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13. **TEXAS ONLY:** 17.5" x 22.5" ID #1055-21 and 23.25" x 31.25" ID #1055-20 may not be installed in the State of Texas.
14. **Steel Piers:** All pads are tested with steel piers on 1000 PSF soil density unless otherwise noted. (See 15) If required, attach with (04) 2" #12 x 1/2" hex tech screws. Minimum Pier Base 7 1/4 inches. The Mult-Pad configuration 35" x 25.5" ID #AIT-06-1002 (03) requires minimum 9 1/2" pier base.
15. Available pads tested on 2000 PSF soil density using steel piers are: ID #1055-14, 1055-9, 1055-7 and 1055-13.
16. **CALIFORNIA:** Use an assumed value of 1000 lb/sq. ft. unless engineering and calculations are provided.

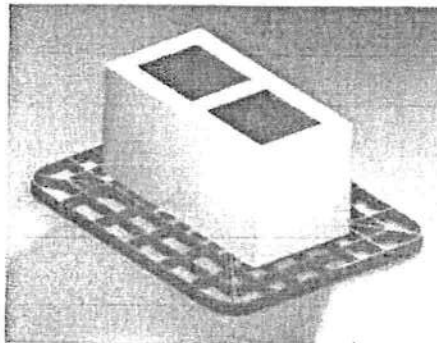
INSTRUCTIONS for Mult-Pad Configurations

MAXIMUM PIER LOAD IN POUNDS:

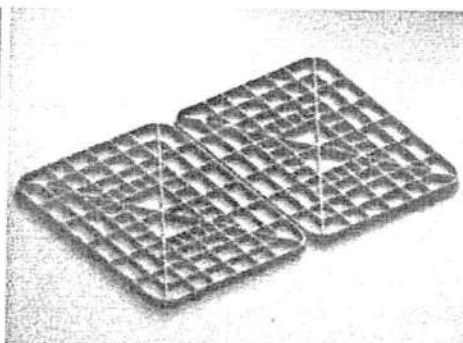
ABS Pad Types			8" Cell Block				Soil Bearing Value	Maximum Load
Oval 16" x 18.5" Pad	2.00 Square Feet	ID # 1055-23/AIT-06-1000	32" x 18.5" Pad Configuration	Single Stack	1000 lbs. / sq. ft.	4000 lbs.		
Oval 32" x 18.5" Pad Configuration (03)	4.00 Square Feet			Double Stack	2000 lbs. / sq. ft.	8000 lbs. *		
Oval 17" x 22" Pad	2.50 Square Feet	ID # 1055-16-AIT-06-1001	34" x 22" Pad Configuration	Single Stack	1000 lbs. / sq. ft.	5000 lbs.		
Oval 34" x 22" Pad Configuration (03)	5.00 Square Feet			Double Stack	2000 lbs. / sq. ft.	10000 lbs. *		
Oval 17.5" x 25.5" Pad	3.00 Square Feet	ID # 1055-17/AIT-06-1002	35" x 25.5" Pad Configuration	Single Stack	1000 lbs. / sq. ft.	6000 lbs.		
Oval 35" x 25.5" Pad Configuration (03)	6.00 Square Feet			Double Stack	2000 lbs. / sq. ft.	12000 lbs. *		

*Concrete blocks are only rated at 8000 pounds, 8001 pounds and higher must be double stacked.

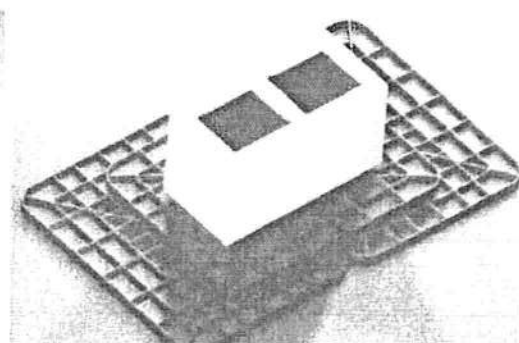
PAD ASSEMBLY



STEP 1 - 17" x 22" ABS Pad
(Note: Use 2 blocks side by side for soils rated at more than 1,000 lbs / sq. foot)

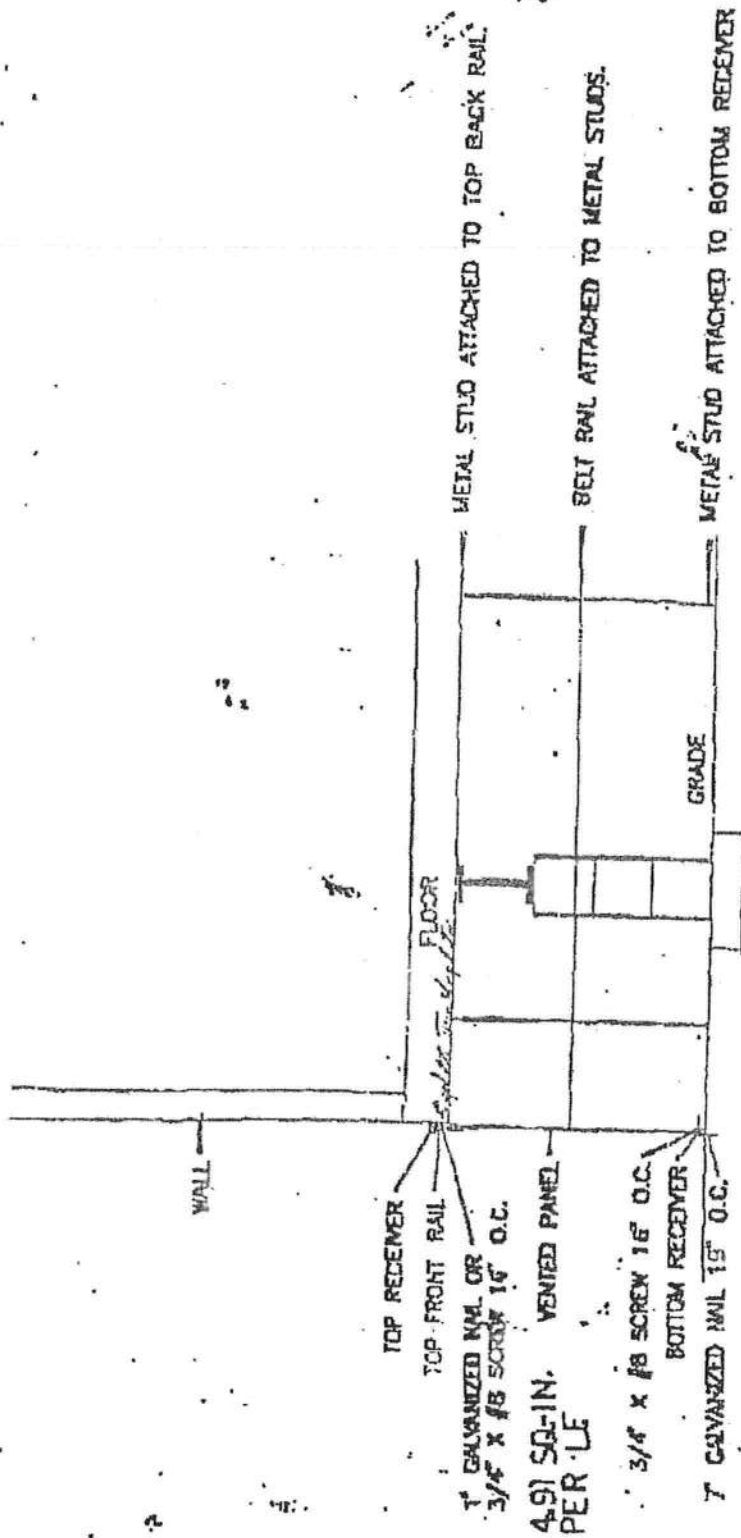


STEP 2 - (2) 17" x 22" ABS PADS (34" x 22" Configuration)



STEP 3 - Complete Assembly 34" x 22" Multi-pad Configuration

1. General instructions (on reverse) apply to all multi - pad configurations.
2. The 32" x 18.5" pad configuration is formed by using (3) 16" x 18.5" ABS Pads. Place (2) 16" x 18.5" side by side, and place (1) 16" x 18.5" on top, laid in the opposite direction to the bottom pads.
3. The 34" x 22" pad configuration is formed by using (3) 17" x 22" ABS Pads. Place (2) 17" x 22" pads side by side, and (1) 17" x 22" pad on top. The top pad is laid in the opposite direction to the bottom pads.
4. The 35" x 25.5" pad configuration is formed by using (3) 17.5" x 25.5" ABS Pads. Place (2) 17.5" x 25.5" pads side by side, and (1) 17.5" x 25.5" pad on top. The top pad is laid in the opposite direction to the bottom pads.



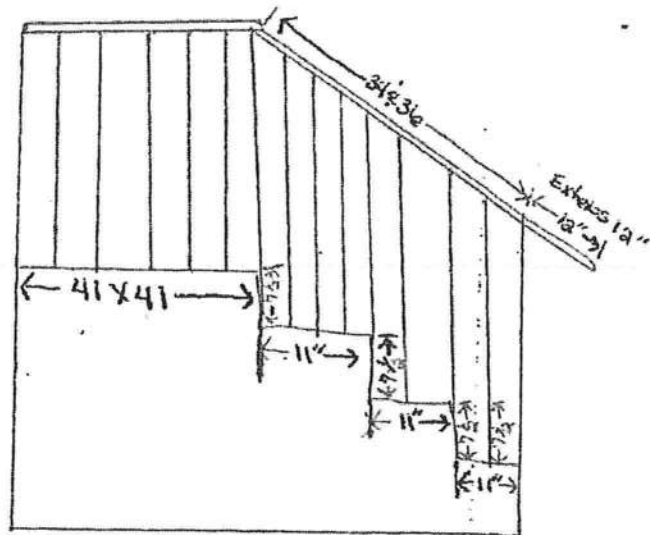
TYPICAL CRAWL SPACE WALL SECTION

1/2" = 1'

SIZE AND LOCATION OF ACCESS DOOR TO BE PLACED TO COORDINATE WITH WATER CUT-OFFS. ACCESS TO BE 18" X 24" MINIMUM.

PER MARION COUNTY REQUEST, SCREWS TO BE INSTALLED AT TOP AND BOTTOM OF EACH PANEL

ANY HOME HAVING IN EXCESS OF 36" HEIGHT MUST HAVE VERTICAL STUDS EVERY 48" WITH BELT RAIL INSTALLED FOR BLOW OUT PROOF



Platform 41x41
 Spindels 4" on center
 treads 11"
 risers 7 1/2"