### **Mobile Home Permit Worksheet**

Installer : Ty	ler Brown		L	icense # <u>IH114</u>	2500	
Address of h being installe		cel 25-6S-15-	00519-112			
Manufacture	Town Ho	mes	Len	gth x width	60X28	
NOTE: I understa where the Typical pier	if home is and Lateral is sidewall tie	a triple or qu	Show location	h in remainde	r of home (new or used TB al and Latera	al Systems
	$\dot{\Box}$		1 🗆			
	T		<del>                                     </del>		<del>                                     </del>	
$\Box$	<u> </u>		<del></del> _	$\Box$	<del>    </del>	
			f			
	+		r arriage	wall piers within 2' of e	nd of home pe Ru	ıle 15C
	<del>-</del>		<del>] -{}-</del>		<del>] 4</del>	

pplication Numbe	r:			Date:		
New Home	X	Used Home				
		lanufacturer's Ins cordance with Ru			X	
Single wide		Wind Zone II	X	Wind Zone III		
Double wide	X	Installation Dec	cal#	109572		
Triple/Quad		Serial #				

### PIER SPACING TABLE FOR USED HOMES

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

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

### PIER PAD SIZES

I-beam pier pad size

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
1-7	24X24

### TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD)
Manufacturer OLIVER TECHNOLOGIES
Longitudinal Stabilizing Device w/ Lateral Arms
Manufacturer OLIVER TECHNOLOGIES

### **POPULAR PAD SIZES**

Sq In
256
288
342
360
374
348
400
441
446
576
676

### ANCHORS

4 ft X 5 ft X

FRAME TIES

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

### OTHER TIES

Sidewall Longitudinal Marriage wall Shearwall

Number 24 6 6 6

### **Mobile Home Permit Worksheet**

POCKET PENETROMETER TEST
The pocket penetrometer tests are rounded down to 1500 psf or check here to declare 1000 lb. soil without testing.
x x x
POCKET PENETROMETER TESTING METHOD
Test the perimeter of the home at 6 locations.
Take the reading at the depth of the footer.
Using 500 lb. increments, take the lowest reading and round down to that increment.
x x
TORQUE PROBE TEST
The results of the torque probe test is $^{295}$ inch pounds or check here if you are declaring 5' anchors without testing . A test showing 275 inch pounds or less will require 5 foot anchors.
Note: A state approved lateral arm system is being used and 4 ft. anchors are allowed at the sidewall locations. I understand 5 ft anchors are required at all centerline tie points where the torque test reading is 275 or less and where the mobile home manufacturer may requires anchors with 4000 lb holding capacity.
ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER
Installer Name TYLER BROWN
Date Tested 9-25-24
Electrical
Connect electrical conductors between multi-wide units, but not to the main power source. This includes the bonding wire between mult-wide units. Pg. 34

Plumbing

Connect all potable water supply piping to an existing water meter, water tap, or other

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

independent water supply systems. Pg. 36

	Site Preparation
	and organic material removed X drainage: Natural Swale Pad X Other .
	Fastening multi wide units
Floor: Walls: Roof:	Type Fastener: LAG Length: 6" Spacing: 16" Type Fastener: SCREW Length: 6' Spacing: 16" Type Fastener: LAG Length: 6" Spacing: 16" 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.
	Gasket (weatherproofing requirement)
homes a result	stand a properly installed gasket is a requirement of all new and used and that condensation, mold, meldew and buckled marriage walls are of a poorly installed or no gasket being installed. I understand a strip will not serve as a gasket.  Installer's initials  asket FOAM  Installed:  Between Floors Yes X  Between Walls Yes X  Bottom of ridgebeam Yes X
	Weatherproofing
Siding o	ttomboard will be repaired and/or taped. Yes X . Pg. on units is installed to manufacturer's specifications. Yes X ce chimney installed so as not to allow intrusion of rain water. Yes X
	Miscellaneous
Dryer ve Range of Drain lin	to be installed. Yes No NA ent installed outside of skirting. Yes N/A X downflow vent installed outside of skirting. Yes N/A X nes supported at 4 foot intervals. Yes X al crossovers protected. Yes X

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

**Application Number:** 

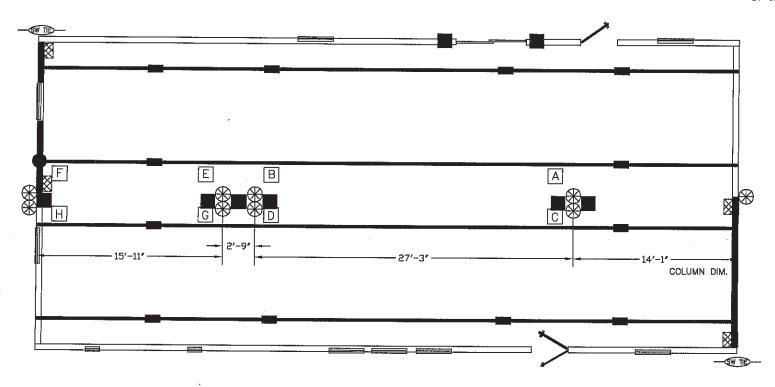


Date 9-25-24

Date:

8-7-24

30 29 28 27 26 25 24 23 22 21 20 13 12 11 10 24" O.C.



45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 16" Q.C.

SHEARWALL DIM.

IBE	AM I	3LOC	KINC
SEE	SOIL	BE/	ARING

IG CAPACITY CHARTS FOR SPACING

COLUMN BLOCKING SEE SOIL BEARING CAPACITY CHARTS FOR PAD SIZE

- SHEARWALL BLOCKING
- SHEARWALL FRAME TIE
- CENTER LINE TIES
  - VERTICAL TIE
    MAX. SPACING 5'-4" CENTER TO CENTER
  - LONGITUDINAL TIES



BLOCKING LEGEND: FLORIDA

- 1) ALL EXTERIOR DOORS, BAY WINDOWS, RECESSED SIDEWALLS AND EXTERIOR WALL OPENINGS 48" OR GREATER. WILL REQUIRE BLOCKING ON EACH SIDE.
- 2) 32' WIDE HOMES REQUIRED TO BE BLOCKED MIN 8'-0" ON CENTER BETWEEN COLUMNS.



TownHomes
P.O. BOX 1059
LAKE CITY, FLORIDA 32056

Date: 1-6-10 Revisions Cad#: 2852A Dr'n: ROB Parent: NEW Code: T (10) ZONE Print: FLORIDA Model: 2852-239 BLOCKING PLAN

License Number: IH / 1142500 / 1 Name: TYLER M BROWN	€ M BROWN	
Order #: 6188 Label #: 109572	Manufacturer	(Check Size of Home)
Homeowner:	Year Model:	Single
Address:	Length & Width:	Double
City/State/Zip:	Type Longitudinal System:	HUD Label #:
Phone #:	Type Lateral Arm System:	Soil Bearing / PSF:
Date Installed:	New Home: Used Home:	Torque Probe / in-lbs:
Installed Wind Zone:	Data Plate Wind Zone:	Permit #:
Note:		

### INSTALLATION CERTIFICATION LABEL STATE OF FLORIDA

109572

LABEL#

DATE OF INSTALLATION

TYLER M BROWN

NAME

IH / 1142500 / 1

6188

ORDER #

CERTIFIES THAT THE INSTALLATION OF THIS MOBILE HOME IS IN ACCORDANCE WITH FLORIDA STATUTES 320.8249, 320.8325

AND RULES OF THE HIGHWAY SAFETY AND MOTOR VEHICLES.

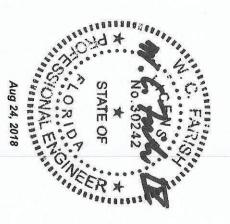
### INSTRUCTIONS

FOR A MINIMUM OF 2 YEARS. ABOVE AND KEEP ON FILE COMPLETE INFORMATION OR MARKER ONLY. USE PERMANENT INK PEN LABEL NEXT TO HUD LABEL. INSTALLATION AND AFFIX PLEASE WRITE DATE OF REQUESTED. PROVIDE COPIES WHEN YOU ARE REQUIRED TO



# MODEL 1101 "V" SERIES ALL STEEL FOUNDATION SYSTEM PAN & CONCRETE (revision 5/18) INSTALLATION INSTRUCTIONS FOR FLORIDA OLIVER TECHNOLOGIES, INC.

PATENT# 6634150 & OTHER PATENT PENDING





467 Swan Ave • Hohenwald, TN 38462 • (800) 284-7437 • www.olivertechnologies.com • Fax (931) 796-8811

### **MODEL 1101 "V" SERIES ALL STEEL FOUNDATION SYSTEM** FLORIDA INSTALLATION INSTRUCTIONS FOR THE **OLIVER TECHNOLOGIES, INC.**

FOR CONCRETE APPLICATIONS: Follow Steps 15-18 LATERAL ONLY: Follow Steps 1-3 and Steps 10-14 LONGITUDINAL ONLY: Follow Steps 1-9 MODEL 1101"V" (Steps 1-14)

**ENGINEERS STAMP** 

**ENGINEERS STAMP** 

1. SPECIAL CIRCUMSTANCES: If the following conditions occur - STOP! Contact Oliver Technologies at 1-800-284-7437: a) Pier height exceeds 48"

c) Roof eaves exceed 16"d) Sidewall height exceed 96"

e) Location is within 1500 feet of coast

b) length of home exceeds 76'

# **INSTALLATION OF GROUND PAN**

2. Remove weeds and debris in an approximate two foot square to expose firm soil for each ground pan (C).

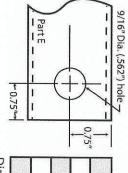
3. Place ground pan (C) directly below chassis I-beam. Press or drive pan firmly into soil until flush or below soil then install pier per manufacturer's instructions or per Florida Regs.

**SPECIAL NOTE:** The longitudinal "V" brace system may also serve as a pier under the home and should be loaded as any other pier. It is recommended that after leveling piers, and one-third inch (1/3") before home is lowered completely on to piers, complete steps 4 through 9 below then remove jacks.
INSTALLATION OF LONGITUDINAL "V" BRACE SYSTEM (Model 1101 L "V")

USED TO DETERMINE CORRECT TYPE OF ANCHOR PER SOIL CLASSIFICATION. IF PROBE TEST READINGS ARE BETWEEN 175 & 275 A 5 FOOT ANCHOR MUST NOTE: WHEN INSTALLING THE LONGITUDINAL SYSTEM ONLY, A MINIMUM OF 2 SYSTEMS PER FLOOR SECTION IS REQUIRED. SOIL TEST PROBE SHOULD BE STABILIZER PLATES EVERY 5'4". VERTICAL TIES ARE ALSO REQUIRED ON HOMES SUPPLIED WITH VERTICAL TIE CONNECTION POINTS (PER FLORIDA REG.). BE USED. IF PROBE TEST READINGS ARE BETWEEN 276 & 350 A 4 FOOT ANCHOR MAY BE USED. USE GROUND ANCHORS WITH DIAGONAL TIES AND

diagram for appropriate pier height at support location or cut and drill 1.5" square tube to achieve appropriate length. Choose one of the approved longitudinal tube installations; either Diagram A or B. Then select the correct square tube (E) length from the PIER HEIGHT

18"	44"	33" to 41"	
18"	32"	24 3/4" to 32 1 /4"	
18"	22"	7 3/4" to 25"	
Tube Length	Tube Length	(40° Min 45° Max.)	1



	~0.75″ <del>~</del>	Part E	(			7/16" Dia. (.562") hole
Disgram B	5"→ 36" to 48"	30" to 40"	24" to 35"	18" to 25"	14" to 18"	7 (40° Min 60° Max.)
	ĵ,	)" 	-	, i	3"	° Max.)

30 10 48	30" to 40"	24" to 35"	18" to 25"	14" to 18"	
48	40"	35"	25"	18"	
54	44"	39"	28"	20"	
					ı

Tube Length

Diagram A

40" to 48"

54"

8

- 5. Install (2) of the 1.50" square tubes (E) into the "U" bracket (J), insert carriage bolt and leave nut loose for final adjustment. 6. Place I-beam connector (F) loosely on the bottom flange of the I-beam.
- Place I-beam connector (F) loosely on the bottom flange of the I-beam.
- 7. (For Diagram A installation) Slide the selected 1.25" tube (E) into a 1.50" tube (E) and attach to I-beam connectors (F) and fasten loosely with bolt and nut. (For Diagram B installation) Attach the selected 1.5" tubes (E) to the I-beam connectors (F) and fasten loosely with bolts
- 8. Repeat steps 6 through 7 to create the "V" pattern of the square tubes loosely in place
- 9. Using standard hand tools tighten all nuts and bolts. (For Diagram A installation only, secure 1.25" and 1.50" tubes using four(4) 1 /4"-14 x 3/4" self-tapping screws in pre-drilled holes.)

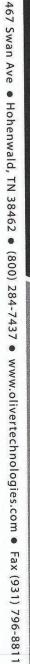
# INSTALLATION OF LATERAL TELESCOPING TRANSVERSE ARM SYSTEM (Model 1101 T "V"

THE MODEL 1101 "V" (LONGITUDINAL & LATERAL PROTECTION) ELIMINATES THE NEED FOR STABILIZER PLATES & FRAME TIES **NOTE:** THE USE OF THIS SYSTEM REQUIRES VERTICAL TIES SPACED AT 5'4".

FOUR FOOT (4") GROUND ANCHOR MAY BE USED EXCEPT WHERE THE HOME MANUFACTURER SPECIFIES DIFFERENT

- 10. Install remaining vertical tie-down straps and 4' ground anchors per home manufacturer's instructions. NOTE: Centerline anchors require a 5' anchor per Florida Code. to be sized according to soil torque condition. Any manufacturer's specifications for sidewall anchor loads in excess of 4,000 lbs.
- 11. Select the correct square tube brace (H) length for set-up lateral transverse at support location. The lengths come in either 60" or 72" lengths. (With the 1.50" tube as the bottom tube, and the 1.25" tube as the inserted tube.)
- Install the 1.50 transverse brace (H) to the ground pan connector (D) with bolt and nut.
- Slide 1.25" transverse brace into the 1.50" brace and attach to adjacent I-beam connector (1) with bolt and nut
- 14. Secure 1.50" transverse arm to 1.25" transverse arm using four (4) 1/4"  $14 \times 3/4$ " self-tapping screws in pre-drilled holes.

Revision 08/23/1!



# INSTALLATION USING CONCRETE RUNNER/FOOTER

- 15. A concrete runner, footer or slab may be used in place of the steel ground pan.
- The concrete shall be minimum 2500 psi mix
- A concrete runner may be either longitudinal or transverse, and must be a minimum of 8" deep with a minimum width of 16 inches longitudinally or 18 inches transverse to allow proper distance between the concrete bolt and the edge of the concrete (see below).
- Footers must have minimum surface area of 441 sq. in. (I.e. 21" square), and must be a minimum of 8" deep.
- If a full slab is used, the depth must be a 4" minimum . Special inspection of the system bracket installation is not required. Footers must allow for at least 4" from the concrete bolt to the edge of the concrete.

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

# LONGITUDINAL: (Model 1101 LC "V")

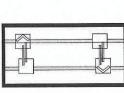
When using Part# 1101-W-CPCA (wetset) simply install the bracket in runner/footer OR When installing in cured concrete use Part# down by hitting the nut (making sure not to hit the top of threads on bolt). The sleeve of concrete wedge bolt needs to be at or below th holes, then place 1101 (dry set) CA bracket onto wedge bolts and start wedge bolt nuts. Take a hammer and lightly drive the wedge bolt masonry bit, drill a hole to a minimum depth of 3". Make sure all dust and concrete is blown out of the holes. Place wedge bolts into drille S162300H 5/8" X 3" or Powers equivalent). Place the CA bracket in desired location. Mark bolt hole locations, then using a 5/8" diameter top of concrete. Complete by tightening nuts. 101-D-CPCA (dryset). The 1101 (dryset) CA bracket is attached to the concrete using (2) 5/8"x3" concrete wedge bolts (Simpson part #

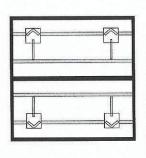
### LATERAL: (Model 1101 TC "V")

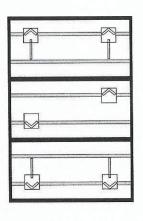
- 17. For wet set (part # 1101-W-TACA) installation simply install the anchor bolt into runner/footer. For dry set installation (part # 1101-D-TAC/ hit the top of threads on bolt), then remove the nut. The sleeve of concrete wedge bolt needs to be at or below the top of concrete. connector and into drilled hole. If needed, take a hammer and lightly drive the wedge bolts down by hitting the nut (making sure not to blown out of the hole. Place wedge bolts (Simpson part #5162300H 5/8" X 3" or Powers equivalent) into (D) concrete dry transverse mark bolt hole locations, then using a 5/8" diam. masonry bit. drill a hole to a minimum depth of 3". Make sure all dust and concrete is
- 18. When using part# 1101 CVW (wetset) or 1101 CVD (dryset), install per steps 17 & 18.

- Notes:
  1. LENGTH OF HOUSE IS THE ACTUAL BOX SIZE
- = LOCATION OF TRANSVERSE BRACING ONLY
- = LOCATION OF LONGITUDINAL BRACING ONLY
- = TRANSVERSE AND LONGITUDINAL LOCATIONS

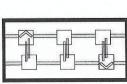
# ALL WIDTHS AND LENGTHS UP TO 52

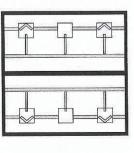


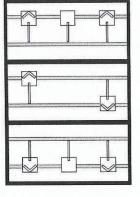




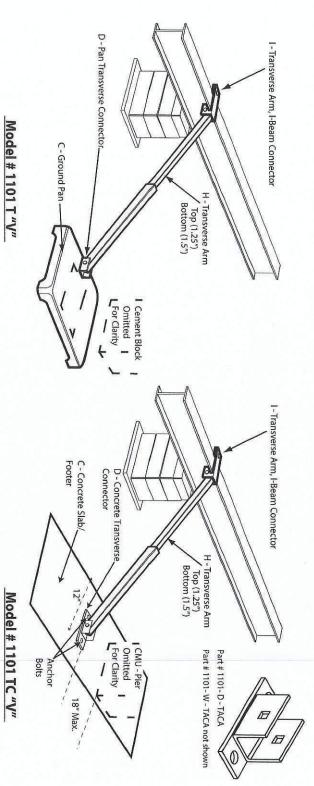
ALL WIDTHS AND LENGTHS OVER 52' TO 80"







6 systems for home lengths up to 52' and 8 systems for homes over 52' and up 80' HOMES WITH 5/12 ROOF PITCH REQUIRE: PER FLORIDA REGULATIONS PATENT# 6634150 & OTHER PATENT PENDING



straps are in excess of 4,000 lbs. These locations require a 5' anchor. Per Florida code. Florida approved 4' ground anchors may be used in all locations except where home manufacturers specifications for sidewall

C = GROUND PAN / CONCRETE FOOTER OR RUNNER

D = GROUND PAN / CONCRETE U BRACKETS TRANSVERSE CONNECTOR (connects with grade 5 - 1/2" x 2" 1/2" carriage bolt and nut)

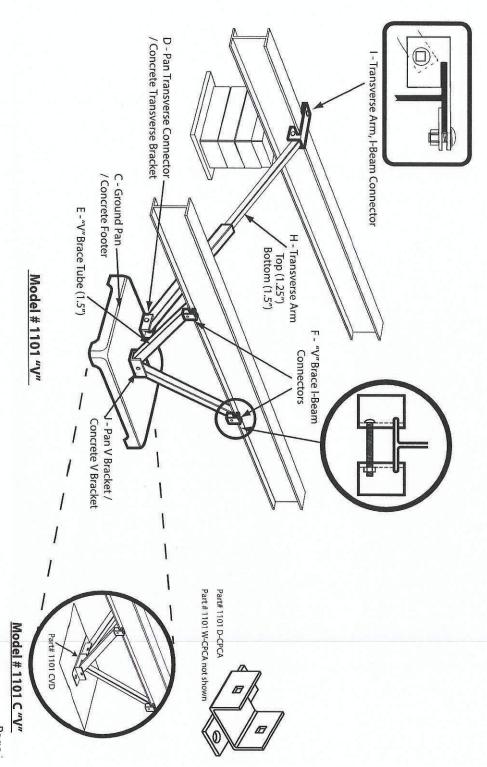
E = TELESCOPING V BRACE TUBE ASSEMBLY (1.5" TUBE BOTTOM AND 1.25" TUBE INSERT) OR 1.5" TUBE

F = "V" BRACE I-BEAM CONNECTOR ASSEMBLY

H = TELESCOPING TRANSVERSE ARM ASSEMBLY

 $I = TRANSVERSE \ ARM \ I-BEAM \ CONNECTOR \ (connects \ with \ grade \ 5 - 1/2" \times 2" \ 1/2" \ carriage \ bolt \ and \ nut)$ 

J = V PAN BRACKET (connects with grade 5 -  $1/2^{n}$  x  $2^{n}$   $1/2^{n}$  carriage bolt and nut)





## State of Florida

### HIGHWAY SAFETY AND MOTOR DEPARTMENT OF **VEHICLES**

TALLAHASSEE, FLORIDA 32399-0500

Executive Director

October 27, 1999

Mr. Lon Larson, General Manager
Manufactured Housing Foundation Systems
A Division of Oliver Technologies
562 Glenheather Drive
San Marcos, California 92069

Dear Mr. Larson:

and Safety Standards, § 3280.305 and § 3280.401 and with the rules and regulations set forth by the Department of Highway Safety and Motor Vehicles, Florida Administrative Rule Code your Adjustable Outrigger listed below complies with the Federal Manufactured Construction 15C-1.01105. We wish to acknowledge receipt of your print specifications and test results certifying

in Florida when the installation instructions showing the way the outrigger was tested, are provided. Based on the information submitted to the bureau, the following product is listed for use

Bracket, Pipe, & Screw Adjustn	Adjustable Outrigger	1055-11
DESCRIPTION	NULVILLICATION	MODEL#

NOTE: The outrigger was tested on September 19, 1999, for an allowable load of 1700 pounds.

If you have any questions, please advise at (850) 413-7600.

Sincerely,

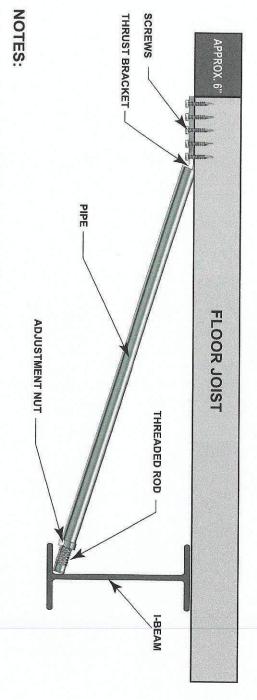
Phil Bergelt, Program Manager
Bureau of Mobile Home and
Recreational Vehicle Construction
Division of Motor Vehicles

PB:bsc



### Adjustable Outrigger Installation Instructions OLIVER TECHNOLOGIES, INC MODEL # 1055-11

- Locate the floor joist that requires support
- 5 Mark the I-Beam directly under the floor joist to align the outrigger.
- ယ Adjust the nut on the threaded rod so it clears the frame flange for easy adjustment.
- 4. Set the threaded rod in the pipe and against the frame
- 5 screws to the floor joist. The thrust bracket should be approximately 6" from the outside rim joist. Set the notched end of the thrust bracket into the end of the pipe and secure it with  $5 \# 12 \times 2$ "
- <u></u> Bottom board and insulation should be between the bracket and the joist.
- 7. For minor adjustments align the door and window openings by tightening or loosening the adjustment outrigger. For all other adjustments use a hydraulic jack to raise the floor joist before installation of the



\*REMOVE OUTRIGGER WHEN HOME IS BEING TRANSPORTED
\*SPECIFY WIDTH OF HOME WHEN ORDERING OUTRIGGER. PIPE MAY BE CUT TO FIT
\*THE ADJUSTABLE OUTRIGGERS SHALL ONLY BE USED ON HOMES FOR OPENINGS UP TO:

Listing # 1055-11 Patent # 6.334.279

6' ON 20 LB ROOF LOAD 4' ON 30 LB ROOF LOAD 3' ON 40 LB ROOF LOAD

\*WHEN ADJUSTABLE OUTRIGGERS ARE USED FOR DOOR AND WINDOW SUPPORTS, THEY MUST BE INSTALLED ON THE CLOSEST FLOOR
JOIST UP TO 16" FROM THE OUTSIDE EDGE OF THE OPENING
\*DO NOT INSTALL ADJUSTABLE OUTRIGGER AT LOCATIONS WHERE THE HOME MANUFACTURER INDICATES A LOAD IN EXCESS OF 1,700 LBS.
\*THE ADJUSTABLE OUTRIGGER MUST BE USED ON A MINIMUM 10" I-BEAM AND BE PLACED WITHIN 4' OF A MAIN FRAME SUPPORT PIER OR
FRAME CROSSMEMBER.

Peoreta Bestdang Conte

Residential Section

RSU1 and R312

N311.7.2 Headrison

M331.7.5.1 liber treight

R311.75.2 Tread Depth

R313LTE2 Combinally

R311 7 & Handralls

1

X31117.8-3 Handrall Gdp Size

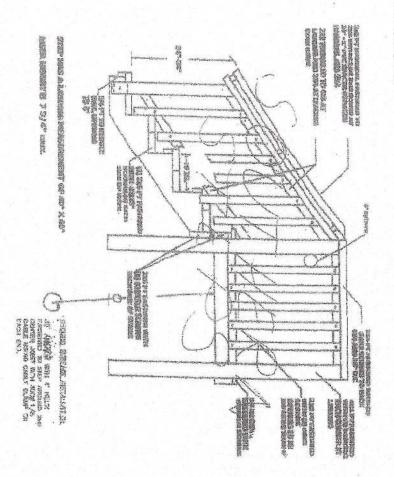
1912.1.2 Guards

RELECT S Great Opening Limits



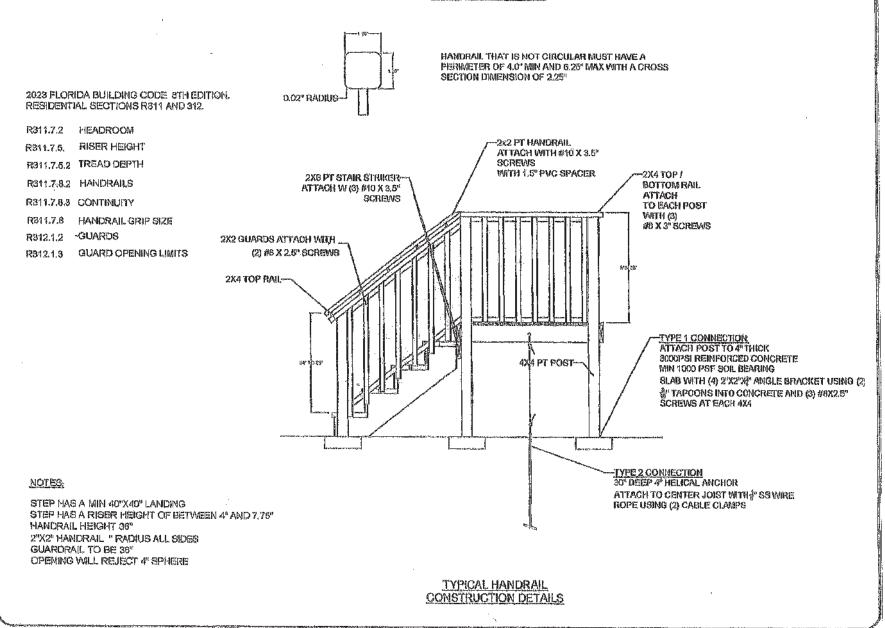
### 

Nanciscolar Haudinii



VERTICAL VINYL SKIRTING THERE WILL BE TWO PAYERS ON THE JOB SITE SETURE WITH PHALIPS HEAD SCHEME DETRING THEM ACTESS PANES. THE MAN PACTURES INTERESTATES VENTING IN EACH PANEL I( EQUIVAENT TO 16.5 TOP HAT, BACKER IS SECRED TO THE HOME WITH I HAP YEN HEAD SCHEME EVERY IN TOP BULL FROM AL COVER IS SEXURED TO THE FOR BALL BACKOTA USING AN INTEGRATED SHAP LOCK WHAT, PANELS ARE SECURE BY THE BOTTCAN TRACK ORCOVER. THE TOP PROMITAL COVER, IF PANEL EXCEEDS AT IN EXPOSED HEIGHT, MALEFACTURES RECOMMENDE PRANTING PLACED RESIDENCE HAT DOES NOT REQUIRE IT INTERVINATED VEHTNO PROMOTE BY THE MARKETURES BOTTOM RAD, SITE ON THE ORIGINO SECURED WITH & SPINES





### INSTALLATION VERTICAL SKIRTING (WALL SECTION)

- 1. Top back rail will be screwed to bottom of home with 3/4" screw every 16 ".
- 2. Bottom track will be spiked every 16" with 7" galvanized nail.
- 3. Each panel must be installed with required screws. Screws installed in each panel top and bottom every 16".
- 4. Access allowed by any panel.
- 5. Any part of home over 36" from bottom of home to ground will require metal bracing with cross brace. (Bracing requirements 2 x 3 metal brace attached to bottom of home with 3/4" screws and burried in the ground every 4' with cross brace.)

