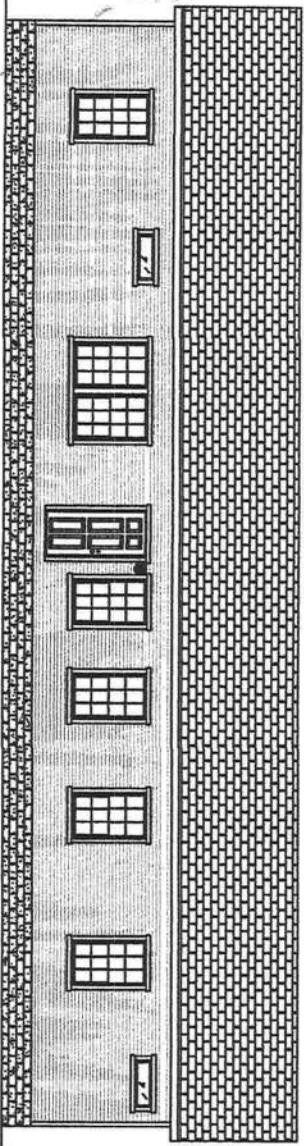


Model #: C9527-D

Sales Name: Custom

DISCIPLINE DESIGNATOR			SHEET TYPE DESIGNATORS		
A	ARCHITECTURAL	D	OPERATIONS	0	GENERAL
B	GEOTECHNICAL	P	PLUMBING	1	PLANS
C	CIVIL	Q	EQUIPMENT	2	ELEVATIONS
D	PROCESS	R	RESOURCE	3	SECTIONS
E	ELECTRICAL	S	STRUCTURAL	4	LARGE-SCALE VIEWS
F	FIRE PROTECTION	T	TELECOMMUNICATIONS	5	DETAILS
G	GENERAL	U	USER DEFINED	6	SCHEDULES & DIAGRAMS
H	HAZARDOUS MATERIAL	V	SURVEY / MAPPING	7	USER DEFINED
I	INTERIORS	X	OTHER DISCIPLINES	8	USER DEFINED
L	LANDSCAPE	Z	CONTRACTOR / SHOP PRINTS	9	3D REPRESENTATION
M	MECHANICAL				ISOMETRICS, PERSPECTIVES, PHOTOGRAPHS



Sheet List Table	
Sheet Number	Sheet Title
G0.01	Title Sheet
A0.01	Code Sheet
A0.02	Construction Notes
A1.01	Floorplan
A2.01	Front & Rear Elevations
A2.02	Right & Left Elevations
A3.01	Typical On Frame Cross Section
A3.02	Typ. On Frame Cross Section Notes
E0.01	Electrical Notes
E1.01	Electrical Plan
P1.01	DWV PLAN
P1.02	Cold Supply Lines
P1.03	Hot Supply Lines
P1.04	Gas Supply Lines
S0.01	Shearwall Notes
S1.02	Column & Shearwall Tables
S1.02	Floor Framing
S1.03	Roof & Duct Plan

Date: 6-18-12 P10 NO. 2102-1043F
 Approved By JAMES A. LYONS
James A. Lyons
 Modular Building Plans Examiner
 Florida License No. SHP-112

Sheet Title: TITLE SHEET Sheet Number: G0.01 Sheet 1 of 18 Plan #: 2102-1043F		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:		P.E. Leonard G. Wood, P.E. 4034 The Fernway Mulberry, Florida 33960 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566		Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved	
------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------------------------------	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------	--

FLORIDA STRUCTURAL LOAD LIMITATIONS:

1. FLOOR LIVE LOAD = 40 PSF
2. ROOF LIVE LOAD = 20 PSF
3. WIND LOAD: 150 mph (150 mph gust) Refer to SPEED (3 sec gusts) Refer to
4. BUILDING IS RISK CATEGORY II.
5. WIND EXPOSURE CATEGORY "D"
6. COEFFICIENT EXPOSED
7. D.W.P. FOR C/C PSF
8. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
9. FLOOD LOAD: THIS BUILDING MAY BE LOCATED IN A FLOOD HAZARD AREA PROVIDED NO MODULAR PORTION OF THE BUILDING IS LOCATED BELOW A BASE FLOOD ELEVATION.

NOTE:
NON-ELEVATED SET - 80'-0" MAX
ELEVATED SET - 80'-0" MAX

ASCE 7-10

Design Wind Pressures for C/C (PSF)	ASCE 7-10
Wind speed: 150	
Zone 1 -32.2	
Zone 2 -48.8	
Zone 3 -75.3	
Roof Overhang (Ea=10)	
Zone 1 -118.1	
Zone 2 -118.1	
Zone 3 -118.1	
Per W/C load, Wind & Doors (Ea=10)	
Zone 1 -40.8	
Zone 2 -50.4	
Zone 3 -50.4	
Roof - (Ea=20) load (Ea=10, Ea=20)	
Zone 1 -44.4	
Zone 2 -68.6	
Zone 3 -93.8	
Zone 1 -67.2	
Zone 2 -134.6	
Zone 3 -134.6	

Design pressure (P) apply only for wind speeds > 114 mph. See appropriate title, Cat. Table, Wind Speeds in Table Header on Ultimate 3-Seconds per ASCE 7-10. P's are ASD PSF. Wind and Door P's ratings must meet or exceed those listed above for Zone 5 (within 4ft of an corner), or Zone 4 (interior), for desired wind speed.

- Plumbing Systems - 2010 FBC, Residential**
1. All systems shall be constructed with the materials listed in FBC, Residential - Plumbing with 25 through 33.
 2. DW systems may be ABS OR PVC piping.
 3. Tub access provided under home, unless otherwise noted.
 4. Building drain and clean-outs, when designed and site installed by others, are subject to local jurisdiction approval.
 5. Water heater shall have a safety pan with 3/4 inch minimum drain to the exterior.
 6. Water heater T & P relief valve to drain to exterior.
 7. Thermal Expansion device, if required by water heater installation instructions, and if NOT shown on the approved plumbing plan, shall be designed and installed on-site, by others and is subject to local approval.
 8. All plumbing fixtures to have separate shutoff valves.
 9. Shutoff valve to be installed within three feet of the fresh water inlet to the home (site installed, by others).
 10. Water supply pipes installed in a wall exposed to the exterior shall be located on the heated side of the wall insulation. Water lines located in unconditioned spaces to be insulated with minimum R-6.5 insulation.
 11. Water supply lines shall be PEX, polybutylene, CPVC or copper.
 12. All supply "crossover" piping to be connected on-site by others.
 13. Shower stalls shall be covered with a nonabsorbent material to a height of 70 inches above finished floor (may be on-site).
 14. Showers shall be controlled by an approved mixing valve with a maximum outlet temperature of 120°F (49°C).
 15. All on-site plumbing shall be installed by a licensed plumbing contractor. All on-site plumbing is subject to inspection and approval by the local authority having jurisdiction.
 16. Water hammer arrestors are required with quick closing valves.

CODE SUMMARY			
STATE: FLORIDA			
RESIDENTIAL: 2010 FBC- RESIDENTIAL	FIRE PREVENTION: 2010 FL FIRE PREVENTION		
ELECTRICAL: 2008 N.E.C.	LIFE SAFETY: 2009 NFPA 101 LIFE SAFETY CODE		
MECHANICAL: 2010 FBC RESIDENTIAL	FUEL: 2010 FBC RESIDENTIAL		
PLUMBING: 2010 FBC RESIDENTIAL	ACCESSIBILITY: 2012 FLORIDA ACCESSIBILITY CODE		
ENERGY: 2010 FBC RESIDENTIAL			

Plant Information

Plant Number: **69**

© Copyright 2011
Palm Harbor Homes, Inc.
All Rights Reserved

Leonard G. Wood, P.E.
4034 The Fenway
Mulberry, Florida 33880
Phone 863-430-2717
Fl. Lic. No. 47377

Palm Harbor Homes
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information

Model Number: C9527-D

Sales Name: CUSTOM - VUNK

Series: COLLINS CRAFT

Drawn by: WAL

Date: 5-31-12

Notes:

LISTING

APPROVAL

Signature: [Signature]

Stamp: [Stamp]

- Site Installed Items:**
- (This list contains examples and shall not be considered all inclusive)
1. The complete foundation and tie-down systems.
 2. Ramps, stairs and general access to the building.
 3. Building drains, clean-outs and hoodup to the plumbing system.
 4. Any portable fire extinguisher(s) that may be required.
 5. Electrical service hoodup (including feeders) to the building.
 6. The main electrical panel and sub-feeders (multi-section units).
 7. Structural and aesthetic interconnections between modules (multi-section units).
 8. Exterior siding and/or roofing may be installed in the factory or left off to be installed on-site, by others.
 9. Exterior wall finish and soft materials.
 10. Weather protection, storm shutters.
 11. Bottom of floor with protection (when required).
 12. Crossover duct and connections (HVAC).
 13. HVAC disconnect.
 14. Freepack chimney.
 15. Code wall framing, chimney.
 16. HVAC equipment.
 17. Combustion Gas Venting, Combustion Air Intake.
 18. A.A.V. (Air Admission Valve)
 19. Optional elevator is designed and installed on site by others.
 20. Some of these items may be installed in the factory at the discretion of plant management, if the items are installed and inspected at the production facility, then local approval is not required.
 21. Additional site installed items may be included on other pages in this package.

ATTACHMENTS:

1. Florida Energy Calculations
2. Typical Foundation Pages

Approximate Square Footage of Building:
(see table on S0.02)

Florida product approvals

are on file with third party.

The 1st letter of the model number designates the State. The 2nd is a series designation and can change without reapproval.

WV

COA # 1025

APPROVAL

Signature: [Signature]

Stamp: [Stamp]

- Mechanical Notes - 2010 Florida Building Code Residential**
1. All supply or registers are adjustable, except when otherwise specified on the plans.
 2. Reserved.
 3. Minimum vent fans shall provide 50 cfm minimum of ventilation.
 4. Vent fans shall be ducted to the exterior of home.
 5. Reserved.
 6. All ducts and duct system components installed in the attic area with insulation are a minimum R-value of R-6.0.
 7. All ducts and duct system components installed on the exterior of the building (including the roof space below), shall have a minimum R-value of R-6.0. NOTE: If the building is located in a jurisdiction that has adopted the provisions for ROOM RESISTANT CONSTRUCTION, R-6.0, FLORIDA STATUTE 353.08, then the ducts and plans shall be not be located in the roof space.
 8. All HVAC components installed on-site, shall be installed by a licensed HVAC contractor.
- Attention Local Building Inspections Department:**
- The following items have not been completed by the manufacturer, have not been inspected by HVAC and are not certified by the State of Florida, Department of Business & Professional Regulations Inspectors (DBPR). Note: This list does not necessarily limit the items, work and/or materials that may be required for a complete installation. ALL SITE INSTALLED ITEMS ARE SUBJECT TO APPROVAL BY THE LOCAL JURISDICTION HAVING AUTHORITY. Code compliance for those site installed items shall be determined at the local level and are the responsibility of the licensed contractor installing the building and NOT Palm Harbor Homes.

These details and plans are confidential and proprietary. Plans are not to be reproduced or distributed for any other purpose without the express written consent of Palm Harbor Homes, Inc. Plans may be marketed under the "Palm Harbor Homes" brand name. "Midwest Homes" or "Discovery Homes" brand names. Midwestern Homes and Discovery Homes are divisions of Palm Harbor Homes, Inc.	
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

Sheet Title:

CODE SHEET

Sheet Number: **A0.01**

Sheet 2 of 18

Plan #: **2102-1043F**

WV

COA # 1025

APPROVAL

Signature: [Signature]

Stamp: [Stamp]


General Notes:

1. The building may be constructed in an exact mirror image about its axis without any re-approval of the plans (building may be "flipped" side to side and/or front to rear).
2. Optional horizon windows may be added at any location without re-approval. The energy calculations shall be revised to include the added horizon windows
3. Minimum corridor width is 36".
4. All glazing within a 24 inch arc of doors, whose bottom edge is less than 60 inches above the floor, and all glazing in doors shall be tempered or acrylic plastic sheet.
5. Shearwalls are designed either worst case or plan specific. When designed to worst case, shearwalls are designed with sidewalls @ 108" height and 6-12 roof pitch. When shearwalls are designed plan specific, see floorplan (typically page A1.01) for sidewall and roof pitch limitations.
6. Please refer to the code sheet of this package for additional notes and requirements.

Notes

1. See shear wall notes and shearwall tables for shear wall construction requirements.
2. Exterior walls are no more than 9'-0" max unless otherwise noted.
3. When designing your own foundation, add 2" to overall width shown on floor plan per module to accommodate growth from sheathing and strapping.
4. Sidewalls are 4" or 6" up to 150 mph (Ult). Sidewalls are 6" for winds above 150 mph (Ult).
5. Unless otherwise indicated on truss design, trusses spaced per chart:

Vasd	Vult (mph)		TRUSS SPACING	
	EXP. C	EXP. D	END ZONE	INT ZONE
120 MPH	155 MPH	141 MPH	24" O.C.	24" O.C.
130 MPH	168 MPH	153 MPH	16" O.C.	24" O.C.
140 MPH	181 MPH	165 MPH	16" O.C.	16" O.C.
150 MPH	194 MPH	177 MPH	12" O.C.	16" O.C.
175 MPH	226 MPH	208 MPH	12" O.C.	16" O.C.

See Page S0.01 for Shear Wall Notes.
See Shearwall Tables on other page in this package.
 Indicates Shear Wall Locations.

NOTE: WINDOWS & DOORS MUST BE RATED FOR APPLICABLE WIND PRESSURES PER CHARTS ON CODE SHEET (Typically A0.01)

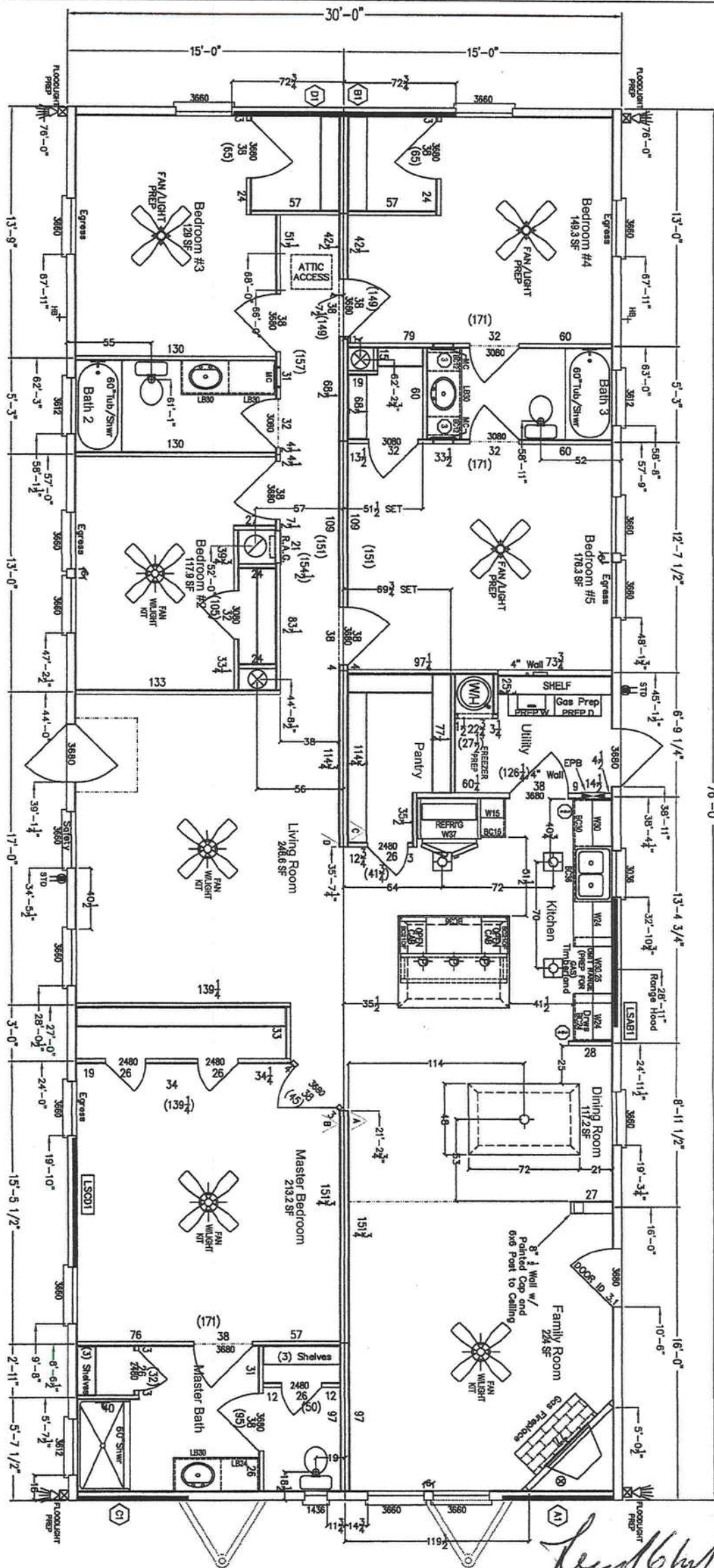
Kipro / CWS Window Chart		
Size	Square Foot Light	Square Foot Vent
36x60	12.20	6.14
36x12	2.17	0.00
30x60	9.95	5.03
30x36	5.55	2.76
30x12	1.75	0.00
14x36	2.48	1.30
30x42	6.55	0.00
64x12	4.90	5.20
46x12	3.28	0.00

Door Chart		
Size	Square Foot Light	Square Foot Vent
36x80 Atrium	9.00	0.00
36x80 Door	4.90	0.00
72x80 S.G.D.	32.18	16.33

Building Square Footage Table

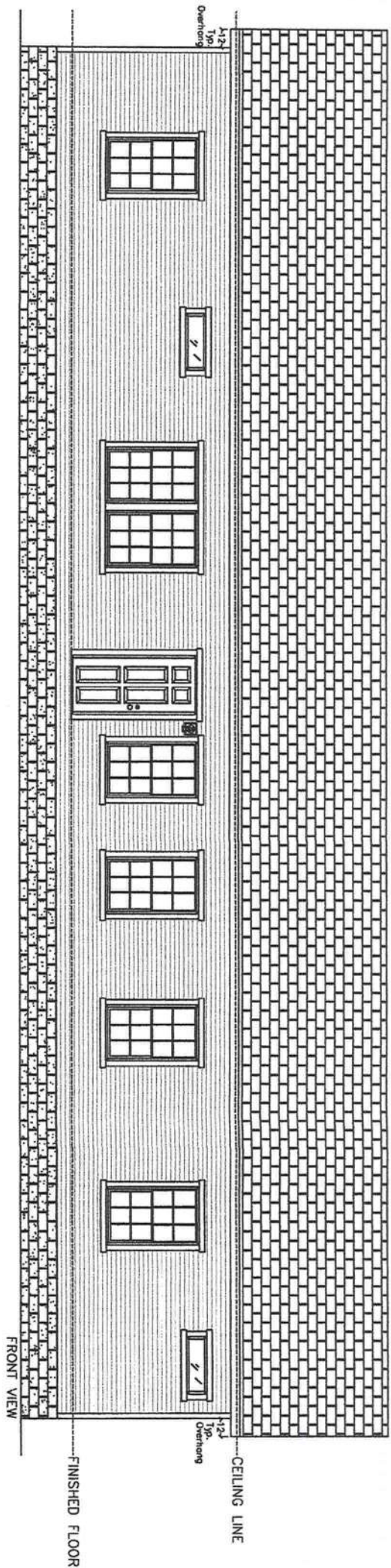
SQUARE FOOTAGE BREAKDOWN FOR PROJECT			
DESCRIPTION	AREA (Sq. Ft.)	PERIMETER (Ft.)	
SQUARE FEET A.C.	2280.00 SF	212	
Total Project	2280.00 SF	212	

Sheet Title: CONSTRUCTION NOTES		Sheet Number A0.02		Sheet 3 of 18		Plan #: 2102-1043F	
P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 883-430-2717 Fl. Lic. No. 47377		Plant Number: 69		© Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved		Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	
Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT		Drawn by: WAL		Date: 5-31-12		Notes:	
Hilborn, Werner, Carter and Associates (HWC) 1627 South Myrtle Ave Clearwater, FL 33766		LISTING AGENCY APPROVAL These plans were prepared by the HWC Manufactured Building Dept. of HWC Corporation and are subject to the following terms: CONTRACT TYPE: _____ OCCUPANCY: _____ PERMIT NO.: _____ WIND VELOCITY (S.F.P. 18.25): _____ FIRE RATING OF EXTERIOR WALLS: _____ PLAN NO.: _____ ALLOW. FLOOR LOAD: _____ APPROVAL DATE: 6-13-12 MANUFACTURER: HWC		HWC COA # 1023			

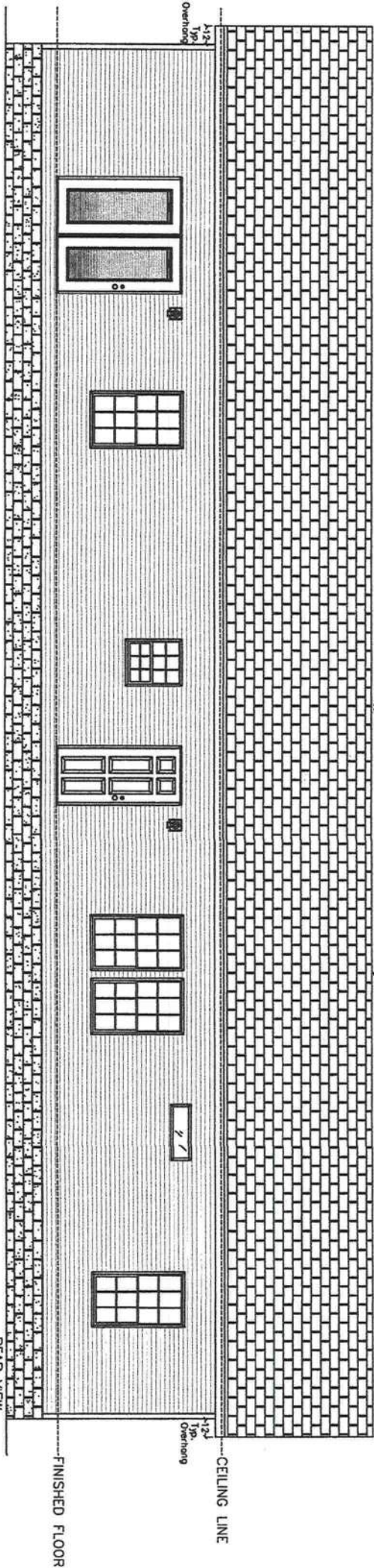


Leonard G. Wood, P.E.

Sheet Title: FLOORPLAN Sheet Number A1.01 Sheet 4 of 18 Plan #: 2102-1043F	WVG COA # 1023 HIGH VELOCITY HURRICANE ZONE NO APPROVAL DATE: 6/18/12 MANUFACTURER: PPH	Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:	P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33880 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69 Palm Harbor Homes © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
---------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------



Handwritten signature: Leonard G. Wood



Notes:

Site Installation Details

(A) Gable End Close Up - See RF 3.1 and 3.2

(B) Close Up at Peak - See RF 1.3

(C) Floor connections - See IM-Section

108" Sidewall



1. Roof ventilation may be accomplished through the use of either vented eaves, roof vents or ridge ventilation. Either or all of these methods may also be used separately or in combination to provide the minimum required roof ventilation of 1/160.
2. Roof overhang (eave) sizes may vary. Roof overhangs are typically a nominal 12" eave or approximately 11 1/4" wide.
3. Bath exhaust fans (ventilated air) shall exhaust directly to the exterior of the home and shall not exhaust into the roof and/or other concealed cavity or area.
4. The elevations shown above are typical and may vary due to optional and/or custom features or specific customer requests.
5. Siding may be approved vinyl or cementitious and either vertical or horizontal per manufacturer's instructions.
6. Steps and handrails are installed onsite by others or at the factory at the factory's discretion.
7. If window sills are greater than 72" from grade, builder is responsible for providing and installing window guards.
8. Exterior doors are fiberglass unless otherwise noted on the plans.
9. When eaves are installed, they are R-19 Glass "Class A".
10. Windows are Low-E, insulated.

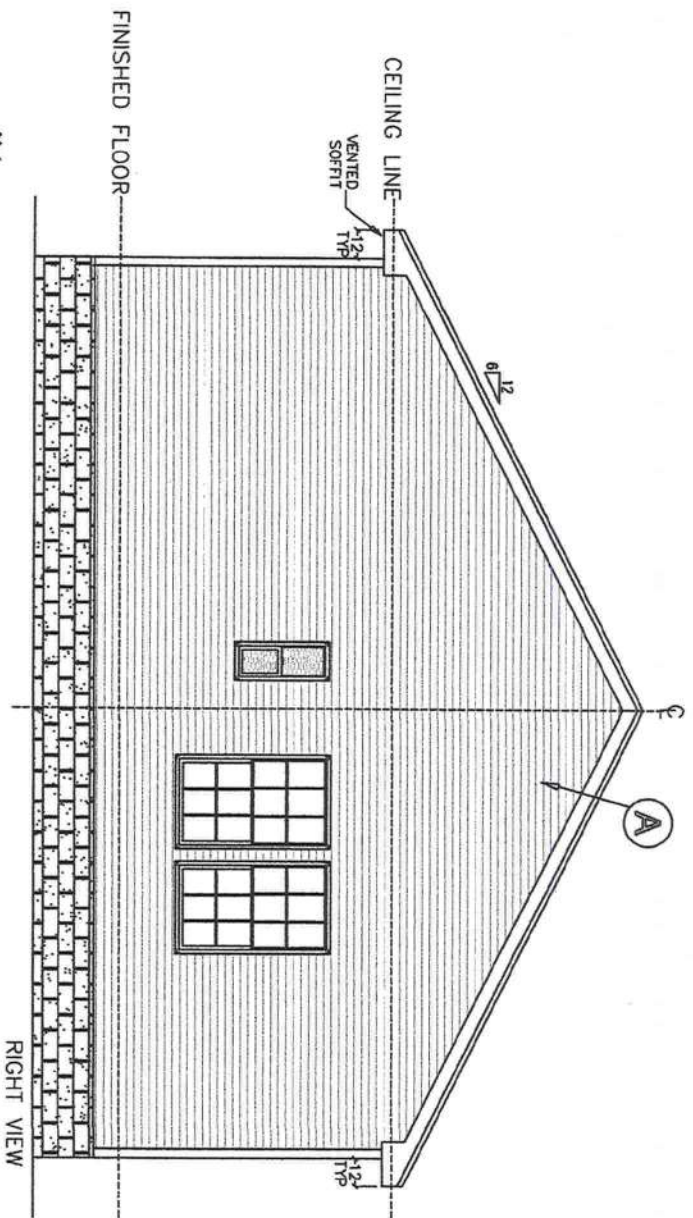
Sheet Title:	FRONT & REAR ELEVATIONS
Sheet Number	A2.01
Sheet	5 of 18
Plan #:	2102-1043F

APPROVAL	These plans were prepared by the Florida Architectural Firm of Professional Engineers and Architects, Inc. (P.E. & P.A.) and are subject to the Florida Building Code.
	APPROVED FOR CONSTRUCTION
DATE	6-18-12
BY	NO
REVISIONS	
NO	

Drawing Information	
Model Number:	C9527-D
Sales Name:	CUSTOM - VUNK
Series:	COLLINS CRAFT
Drawn by:	WAL
Date:	5-31-12
Notes:	

P.E.	Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33880 Phone 863-430-2717 Fl. Lic. No. 47377
Plant Information	
Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	

Plant Number:	69
© Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved	



RIGHT VIEW

Notes:

1. Roof ventilation may be accomplished through the use of either ventilated eaves, roof vents or ridge ventilation. Either or all of these methods may also be used separately or in combination to provide the minimum required roof ventilation of 1/150.
2. Roof overhang (eave) sizes may vary. Roof overhangs are typically a nominal 12" eave or approximately 11 1/4" wide.
3. Bath exhaust fans (ventilated air) shall exhaust directly to the exterior of the home and shall not exhaust into the roof and/or other concealed cavity or area.
4. The elevations shown above are typical and may vary due to optional and/or custom features or specific customer requests.
5. Siding may be approved vinyl or cementitious and either vertical or horizontal per manufacturer's instructions.
6. Steps and handrails are installed onsite by others or at the factory at the factory's discretion.
7. If window sills are greater than 72" from grade, builder is responsible for providing and installing window guards.
8. Exterior doors are fiberglass unless otherwise noted on the plans.
9. When shingles are installed, they are fiberglass "Class A".
10. Windows are Low-E, Insulated.

Notes:

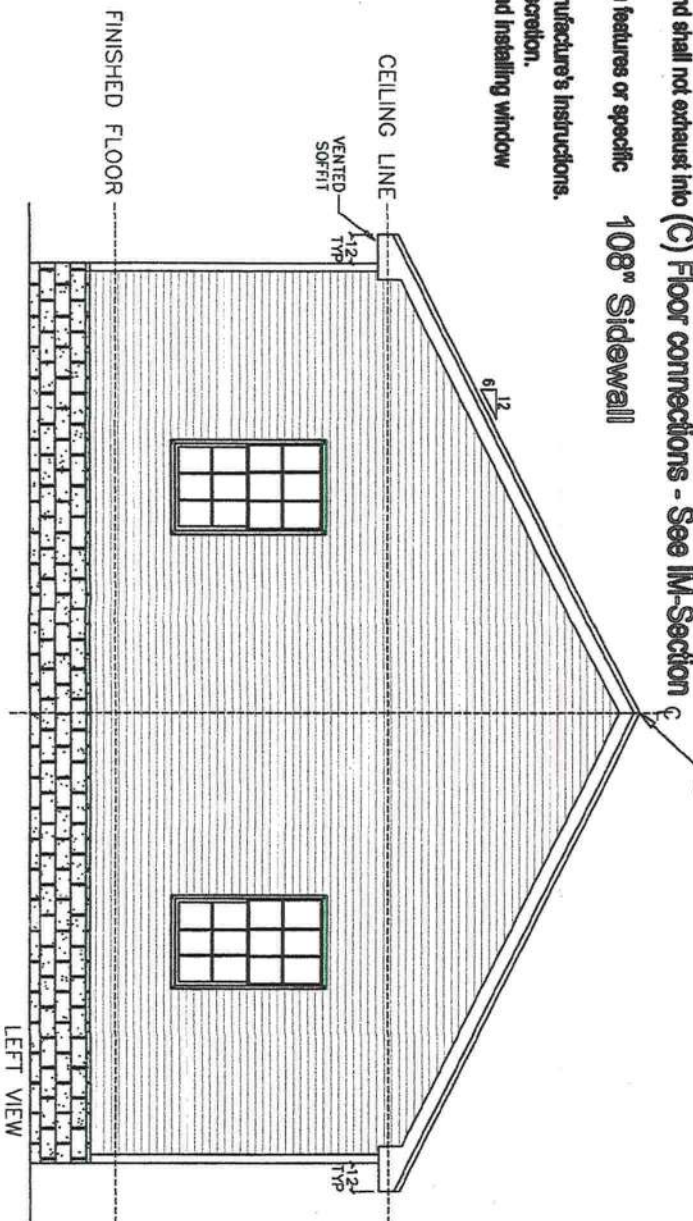
Site Installation Details

(A) Gable End Close Up - See RF 3.1 and 3.2

(B) Close Up at Peak - See RF 1.3

(C) Floor connections - See IM-Section

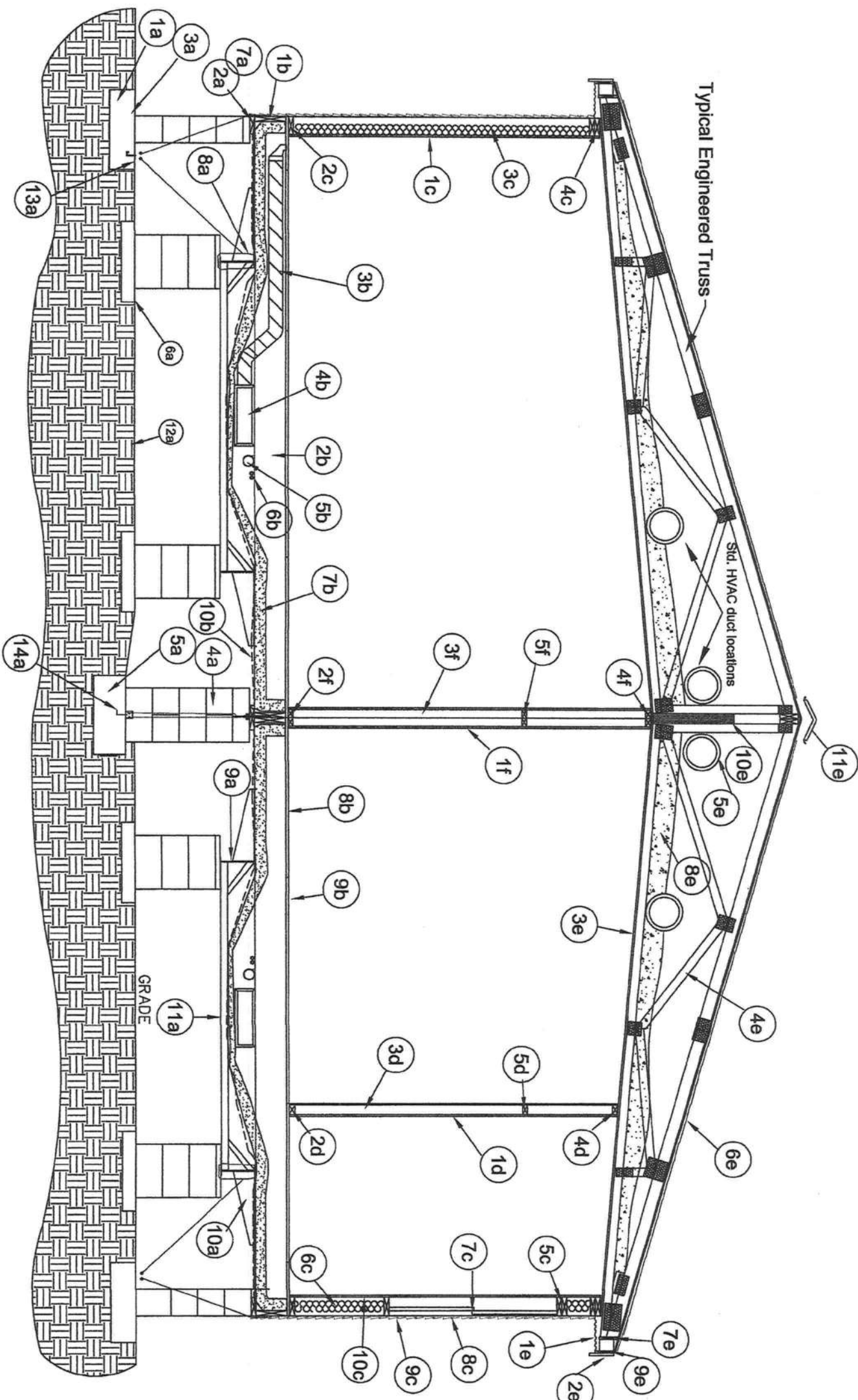
108" Sidewall



LEFT VIEW

Leonard G. Wood 6/19/12

Sheet Title: RIGHT & LEFT ELEVATIONS		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:		P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33880 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566		Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved	
Sheet Number A2.02		CONSTR. TYPE OCCUPANCY APPROVAL APPROVAL DATE HIGH VELOCITY HURRICANE ZONE		Hilborn, Werner Center and Associates (W/C) 1627 South Myrtle Ave Clearwater, FL 33766 LISTING AGENCY APPROVAL APPROVAL DATE HIGH VELOCITY HURRICANE ZONE		COA # 1028	
Sheet 6 of 18		PLAN NO. 2102-1043F		APPROVAL DATE 6-12-12		HIGH VELOCITY HURRICANE ZONE NO	
Plan #: 2102-1043F							



ALL FOUNDATION SPECIFICATIONS ARE TYPICAL AND DESIGNED AND CONSTRUCTED ON SITE BY OTHERS

Handwritten signature: R. Wood

Sheet Title: TYPICAL ON FRAME CROSS SECTION		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:		P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33880 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566		Plant Number: 69 Palm Harbor Homes © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved	
Sheet Number A3.01		Hilborn, Werner, Carter 1627 South Myrtle Ave Clearwater, FL 33765		LISTING AGENCY APPROVAL These plans comply with the Florida Manufactured Building Act of 1975. Construction shall conform to the Florida Building Code. COIN. TYPE: VA OCCUPANCY: 1 WIND VELOCITY (150 MPH): 1 FIRE RATING OF EXT. WALLS: 0 FLOOR: 0 APPROVAL DATE: 6-13-12 APPROVED BY: [Signature] HIGH VELOCITY HURRICANE ZONE: NO		Sheet 7 of 18 Plan #: 2102-1043F	

Typical Foundation System

- 1a. Concrete runner and piers
- 2a. Pressure treated sill plate blocking as required
- 3a. Termite Shield around full perimeter
- 4a/5a. Pier support and footers @ columns
- 6a. Concrete pad and piers
- 7a. Termite shield around full perimeter
- 8a. Lags/washers @ I-beam to joists (factory installed)
- 9a. Main Frame I-beam
- 10a. Factory outriggers
- 11a. Factory cross members
- 12a. 6-mill poly
- 13a. Double head J-anchors along each sidewall footer
- 14a. Double head J-anchors at centerline column footers for large openings

Floor System

- 1b. Floor joists
- 2b. Single rim joist - opt. double.

Floor joists:
Up to 164" unit width, 2x6 #2 S-P-F 16" O.C. max. or 2x8 #2 S-P-F @ 24" O.C.

Up to 180" unit width, 2x8 #2 S-P-F 24" O.C. max.

- 3b. Insulated duct - sized per manual D

- 4b. Insulated, fiberglass duct board

- 5b. Drain lines, see model layout for material types and sizes

- 6b. PEX water distribution system - see model layout for sizing

- 7b. Floor insulation, fiberglass batts or blanket, cellulose, or foam

- see Energy Calculations for R-value

- 8b. Floor sheathing - OSB or Plywood, 5/8" or 3/4".

- 9b. Floor covering - vinyl, carpet, wood laminate, or ceramic tile

- 10b. Bottom board vapor and air barrier

Exterior wall

- 1c. 1/2" or 3/8" gypsum, painted or vinyl clad
- 2c. Min. 2x4 bottom plate, 2x6 optional
- 3c. 2x4 wall studs, optional 2x6
- 4c. Double top plate on 2x4 walls, single top plate 2x6 walls
- 5c. Opening headers
- 6c. Insulation per approved calculations with model package

- 7c. Windows and doors

- 8c. Rated sheathing

- 9c. Exterior siding - vertical or horizontal cementitious, or vertical or

- 10c. Vapor barrier, may be omitted with foam insulation

Interior walls

- 1d. 1/2" or 3/8" gypsum, painted or vinyl clad
- 2d. Min. 2x3 bottom plate
- 3d. Min. 2x3 wall studs
- 4d. Min. 2x3 top plates
- 5d. Opening header when required

Roof System

- 1e. Soffit
- 2e. Fascia
- 3e. 1/2" high strength gypsum or approved suspended ceiling material.

- 4e. Engineered trusses spaced per truss and model design or factory taper-cut trusses

- 5e. Optional overhead ducts

- 6e. Shingles or ribbed metal over OSB roof sheathing

- 7e. Truss rim rail

- 8e. Insulation per approved calculations with model package

- 9e. Minimum 1x6 sub-fascia.

- 10e. Ridge beam

- 3 Layer Beam

- 4 Layer Beam

- Open Beam

- LVL or LSL

- 11e Upper Roof Vent Handle as:

- Vented Ridge cap (as shown)

- Roof caps

Marriage Wall

- 1f 1/2" gypsum -

- Factory finished or finished on site:

- Alternate Drywall: Vinyl covered gypsum.


- 2f Min. 2x3 Bottom plate

- 3f Min. 2x3 Wall stud

- 4f Min. 2x3 top plate

- 5f Window or door header

ALL FOUNDATION SPECIFICATIONS ARE TYPICAL AND DESIGNED AND CONSTRUCTED ON SITE BY OTHERS

Sheet Title: TYP. ON FRAME CROSS SECTION NOTES		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12		P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 883-430-2717 Fl. Lic. No. 47377		Plant Number: 69			
Sheet Number A3.02		Third Party Hilborn, Wiener, Carter and Associates (HWC) 1627 South Myrtle Ave Clearwater, FL 33760		Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566		© Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved		Notes:	
Sheet 8 of 18 Plan #: 2102-1043F		LISTING APPROVAL These plans comply with the Florida Department of Building and Safety Code and are subject to the following notes: 1. OCCUPANT TYPE: RESIDENTIAL 2. WIND VELOCITY (150 MPH) (AS REQUIRED) 3. FIRE RATING OF EXTERIOR WALLS: 2102-1043F 4. PLAN NO.: 2102-1043F 5. APPROVAL DATE: 6-1-12 6. HAZARDOUS ZONE: NO 7. HIGH VELOCITY WINDWAVE ZONE: NO							

GENERAL ELECTRICAL NOTES:

- 1) Exterior receptacles outlets shall be weather resistant, gfi protected and installed with covers approved for outdoor installation.
- 2) Cross over connection between modules is accomplished by using 'amp' wire connectors, supplied by connector manufacturer.
- 3) All electrical components must be ul. approved and installed per listing and manufacturer's installation instructions.
- 4) Smoke alarms are interconnected for simultaneous activation with battery backup. All smoke alarms are equipped with a 'hush button' feature.
- 5) All 125 volt, single phase, 15 and 20 ampere receptacles serving countertop surfaces in kitchen area to have ground-fault circuit interrupter protection for personnel.
- 6) All wiring is m-cable unless otherwise noted.
- 7) All bath exhaust fans must exhaust directly to the exterior.
- 8) Additional outlets and lights may be added in addition to those shown on the approved details) without re-approval.
- 9) All general purpose outlets are required to be on arc-fault circuits, except kitchen and bathrooms.
- 10) Boxes used at fixtures in the ceiling must be rated for a minimum of 50 pounds. When lights are installed on the wall, the box must be listed for that purpose and list its weight capacity, if less than 50 pounds.
- 11) Fixtures weighing more than 50 pounds will be supported independently of the box.
- 12) Access path must be maintained to the panel box.
- 13) Tamper resistant receptacles must be installed in kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, sunrooms, bedrooms, recreation rooms, or similar rooms, or areas of a dwelling unit.
- 14) * Exterior receptacles are required at every balcony, deck, and porch regardless of where it is on the building. The receptacle is not required if the balcony, deck, or porch is less than 20 s.f.

ADDITIONAL GENERAL ELECTRICAL NOTES:

- 14) All circuits and equipment shall be installed and grounded in accordance with the appropriate articles of the National Electrical Code (NEC) that is adopted by the State of Florida, at the time of construction of the building.
- 15) When light fixtures are installed in closets, they shall be surface mounted or recessed. Incandescent fixtures shall have completely enclosed lamps. Surface mounted incandescent fixtures shall have a minimum clearance of 12 inches and all other fixtures shall have a minimum clearance of 6 inches from any 'storage area' as defined by NEC 410-8 (a).
- 16) When water heaters are installed, they shall be provided with readily accessible disconnects adjacent to the water heaters served. The branch circuit switch DR circuit breaker shall be permitted to be as the disconnecting means only where the switch DR circuit breaker is within sight of the water heater DR is capable of being locked in the open position. When water heaters are not installed at the factory, the means of disconnect shall be designed and installed on-site, by others.
- 17) HVAC shall be provided with readily accessible disconnects (installed on-site, by others) adjacent to the equipment being served. A unit switch with a marked 'OFF' position that is part of the HVAC equipment and disconnects ALL ungrounded conductors shall be provided to be as the disconnecting means where other disconnecting means are also provided by a readily accessible circuit breaker.
- 18) When the main electrical service panel is not installed at the factory, the main electrical panel and feeders are to be designed by others, site installed and subject to local jurisdiction approval.
- 19) ALL circuits crossing over module marriage lines(s), shall be site connected with approved accessible junction boxes DR cable connectors.
- 20) ALL receptacles installed in wet locations (exterior) shall have a weather proof (wip), the integrity of which is not effected when an attachment plug cap is inserted or removed.
- 21) Ceiling fans shall be 80 inches minimum, from the bottom of the blades to the finished floor.
- 22) ALL electrical components shall be UL Listed and installed in accordance with that listing.
- 23) Receptacles intended to service bathroom lavatories shall not be located more than 36" away from said lavatory.
- 24) Breakers and wire sizing may be changed if optional or custom appliances or devices are installed in the building. ALL breakers and wiring shall be sized in accordance with applicable sections of the NEC.
- 25) Switches, receptacles, and other fixtures or devices may be relocated from the locations shown on the approved details due to construction restraints. ALL locations shall comply with applicable sections of the NEC.
- 26) Refer to the code sheet for additional electrical notes.

☐	GENERAL LIGHTING	☐	MAIN PANEL BOX	\$	SWITCH	●	EXHAUST--CEIL'G FAN	☐	UNDER CAB LIGHTING
☐	SMALL APPLIANCE	☐	WALL MOUNTED FIXTURE	\$	3-WAY SWITCH	●	HEAT TAP RECEPT	☐	24" SURFACE FLUORESCENT
☐	GFI PROTECTED	☐	CEILING MOUNTED FIXTURE	RECT59	RECESSED FLUORESCENT	●	LIGHTED EXHAUST--CEIL'G FAN	☐	DOOR CHIME BOX (WIRELESS)
☐	240V APPLIANCE			☐	SURFACE FLUORESCENT	✕	OPT CEILING FAN PREP.		
☐	SMOKE ALARM	☐	THERMOSTAT			☐	SURFACE LIGHT RATED FOR WET AREA		
☐	SMOKE ALARM CARBON MONOXIDE	☐	RECESSED CAN LIGHT			☐			

NEC - 2008


MAIN BREAKER
200 AMP

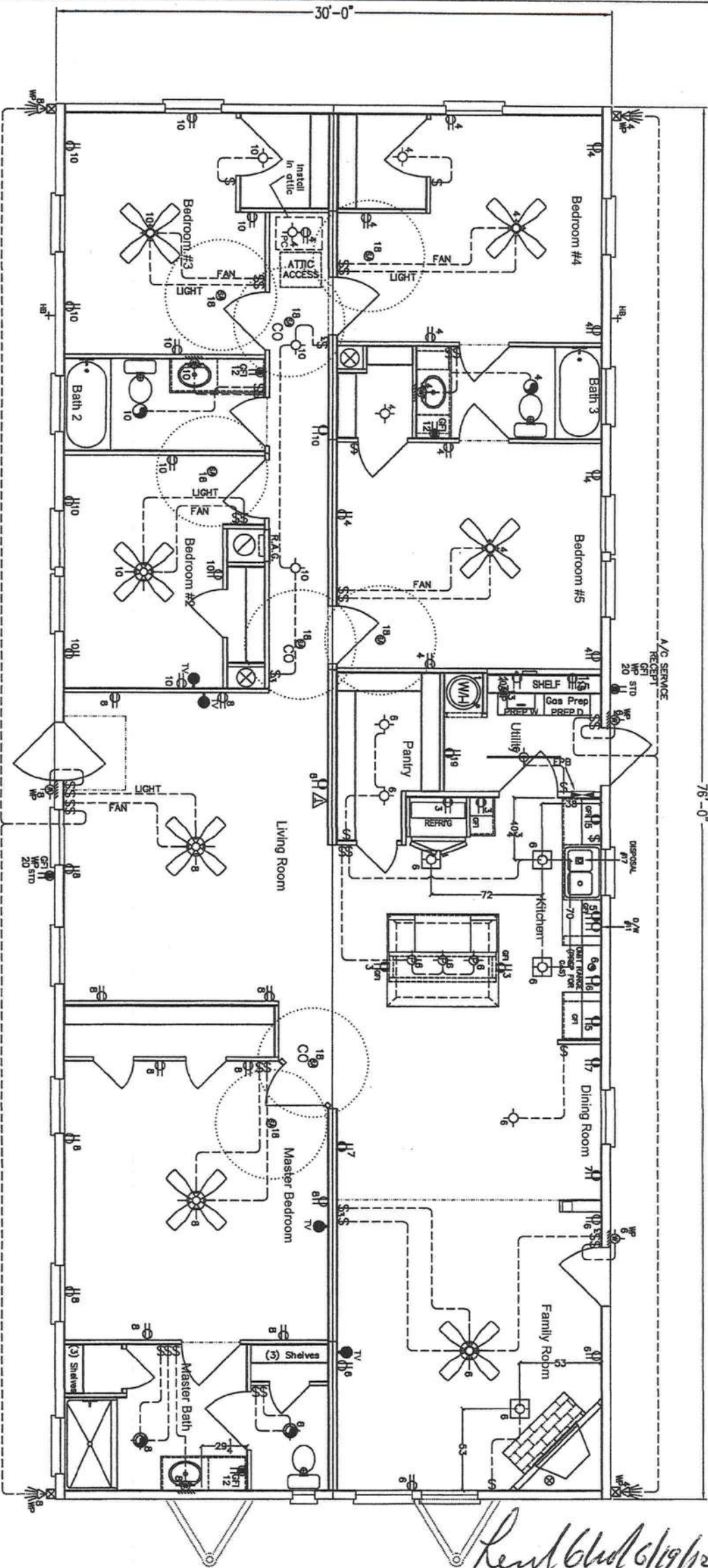
AMP. WIRE SIZE	DESCRIPTION	CIR. NO.	PANEL SPACE	CIR. NO.	DESCRIPTION	AMP. WIRE SIZE
PER MFG (4500W/240V)	WATER HEATER	1	*	2	RANGE OR OVEN	PER MFG
20 12-2*	APPLIANCE	3	*	4(A/F)	GEN. LIGHTING	15 14-2*
20 12-2*	APPLIANCE	5	*	6(A/F)	GEN. LIGHTING	15 14-2*
20 12-2*	APPLIANCE	7(A/F)	*	8(A/F)	GEN. LIGHTING	15 14-2*
20 12-2*	APPLIANCE (SPARE)	8(A/F)	*	10(A/F)	GEN. LIGHTING	15 14-2*
15 14-2*	OPT. D.W.	11	*	12	BATH G.F.I.	20 12-2*
20 12-2*	LAUNDRY	13	*	14	ELECTRIC HEAT-A/C	PER MFG
20 10-3*	CLONES ORDER	15	*	16	COOK-TO*	PER MFG
20 12-2*	OPT. DISPOSAL	17	*	18(A/F)	SMOKE ALARMS	15 14-3*
20 12-2*	OPT. FREEZER	19	*	20	EXTERIOR GFI	20 12-2*
15 14-2*	OPT. JACUZZI G.F.I.	21	*	22(A/F)	SPARE	15 14-2*
20 12-2*	OPT. MICROWAVE	23	*	24(A/F)	SPARE	15 14-2*
20 12-2*	SPARE	25(A/F)	*	26(A/F)	SPARE	15 14-2*
20 12-2*	OPTIONAL ELEVATOR	27	*			

SERIAL NUMBER: N/A	MODEL NUMBER: C9527-D
--------------------	-----------------------

GENERAL LOADS	VA	KVA
TOTAL UNIT A.C. SQUARE FEET	2,280	6.640
NO. OF 20-AMP APPLIANCE OUTLET CIRCUITS	3	4.500
LAUNDRY CIRCUIT	1	1.500
SUBTOTAL	12.640	12.64
NAME PLATE RATINGS	Worst Case	Worst Case
WATER HEATER	1	8,000
DISH WASHER	1	5,000
CLOTHES DRYER	1	1,400
GARBAGE DISPOSAL	1	5,000
COOK TOP	0	1,500
WALL OVEN	0	0.0
OPT. FREEZER	1	1,500
OPT. JACUZZI	1	1,500
ELEVATOR	0	0.0
RESERVED	0	0.0
RESERVED	0	0.0
SUBTOTAL	25,900	25.9
TOTAL GENERAL & NAME PLATE	38,740	38.7

FIRST TO RIVA AT 100%	10,000	10.0
SECOND TO RIVA AT 40%	11,458	11.5
Worst Case HVAC AT 100% (ASSUMED)	15,800	15.8
NOTE: LOCAL SITE ELECTRICAL CONTRACTOR TO VERIFY ADEQUACY OF HVAC ELECTRICAL LOAD IN PANEL CALCULATIONS.		
TOTAL PANEL BOX LOAD	37,258	37.3
MINIMUM PANEL BOX AMPERAGE SIZE	37,258 / 240 =	155
SIZE AMP PANEL BOX INSTALLED	120/240 V, 1B	200
MIN. NO. OF GENERAL LIGHTING CIRCUITS		4

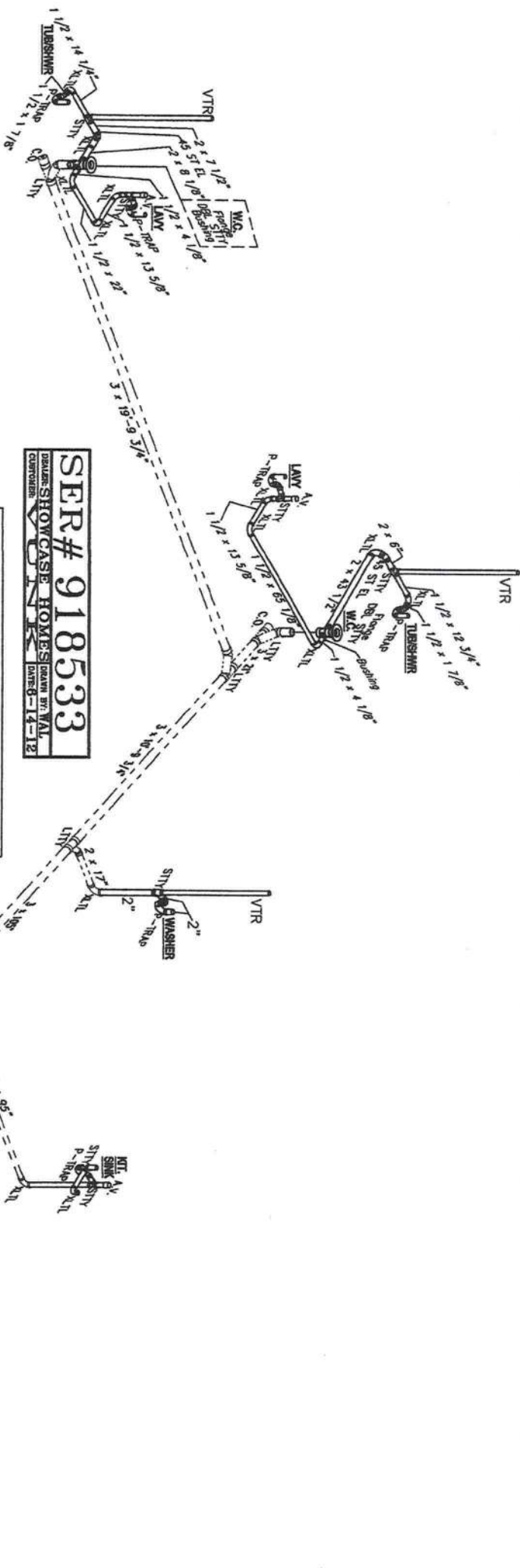
Sheet Title: ELECTRICAL NOTES Sheet Number: E0.01 Sheet: 9 of 18 Plan #: 2102-1043F	 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved	Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12	Plant Number: 69
		Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33580 Phone 863-430-2717 Fl. Lic. No. 47377	Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566
		Listing Agency Hillborn Werner Center and Associates (HWC) 1627 South Myrtle Ave Clearwater, FL 33755	Approval APPROVAL DATE: 6-18-12 APPROVAL SIGNATURE: [Signature] HIGH VOLTAGE HAZARD ZONE: NO
		This plan was prepared by the Florida Licensed Electrical Engineer listed below and is subject to the Florida Electrical Code and rules of the Electrical Board. COA # 1026	



SER# 918533
 DEALER: SHOWCASE HOMES/DRAWN BY: WAL
 CUSTOMER: VUNK DATE: 6-14-12

Revised 6/19/12

Sheet Title: ELECTRICAL PLAN Sheet Number E1.01 Sheet 10 of 18 Plan #: 2102-1043F	WVG COA # 1026 HIGH VELOCITY HURRICANE ZONE NO APPROVAL DATE 6-12-12 MANUFACTURER FRI	Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:	P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69 Palm Harbor Homes © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
----------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------



SER# 918533
DEALER: SHOWCASE HOMES (GAIN PT. VAL.)
CUSTOMER: DATE: 6-14-12

- NOTES:
1. ALL FITTINGS ARE THE SAME SIZE AS THE PIPE TO WHICH THEY ARE CONNECTED
 2. DRAIN, WASTE & VENT PIPING SHALL BE ABS OR PVC SCHEDULE 40.
 3. DRAIN PIPE SIZING SHALL BE SIZED IN ACCORDANCE WITH TABLE 3505.4.1.
 4. INTERCONNECTION OF VENTS ABOVE CEILINGS SHALL BE MADE IN THE FACTORY WHERE PRACTICAL.
 5. BELOW FLOOR PLUMBING SHALL BE PROVIDED AND INSTALLED BY OTHERS AT SITE TO STATE AND LOCAL CODES.
 6. CHANGE IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE THROUGH THE APPROPRIATE USE OF SANITARY TEES, WYES, SWEEPS, BENDS OR BY A COMBINATION OF THESE FITTINGS.
 7. DRAIN PIPING RUN HORIZONTALLY SHALL BE SUPPORTED A MIN. OF 4'-0" O.C.
 8. FIELD INSTALLED DWV IS SHOWN FOR DEMONSTRATIVE PURPOSES ONLY. THE INSTALLATION AND DESIGN OF ALL FIELD INSTALLED DWV IS THE RESPONSIBILITY OF THE PURCHASER.

FIELD INSTALLED DWV PIPE SCHEDULE		
QTY	Description	Pipe Length
1	3" Dia. Pipe	3 x 19'-9 3/4"
1	3" Dia. Pipe	3 x 19'-4 1/2"
1	3" Dia. Pipe	3 x 13'-5 1/8"
1	3" Dia. Pipe	3 x 10'-9 3/4"
1	3" Dia. Pipe	3 x 10'-9 3/4"
1	3" Dia. Pipe	3 x 21"
1	3" Dia. Pipe	3 x 15"
1	2" Dia. Pipe	2 x 10'-3 7/8"
1	2" Dia. Pipe	2 x 17"
1	1 1/2" Dia. Pipe	1 1/2 x 95"

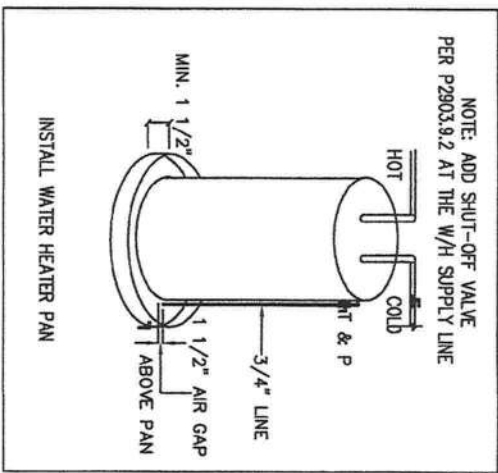
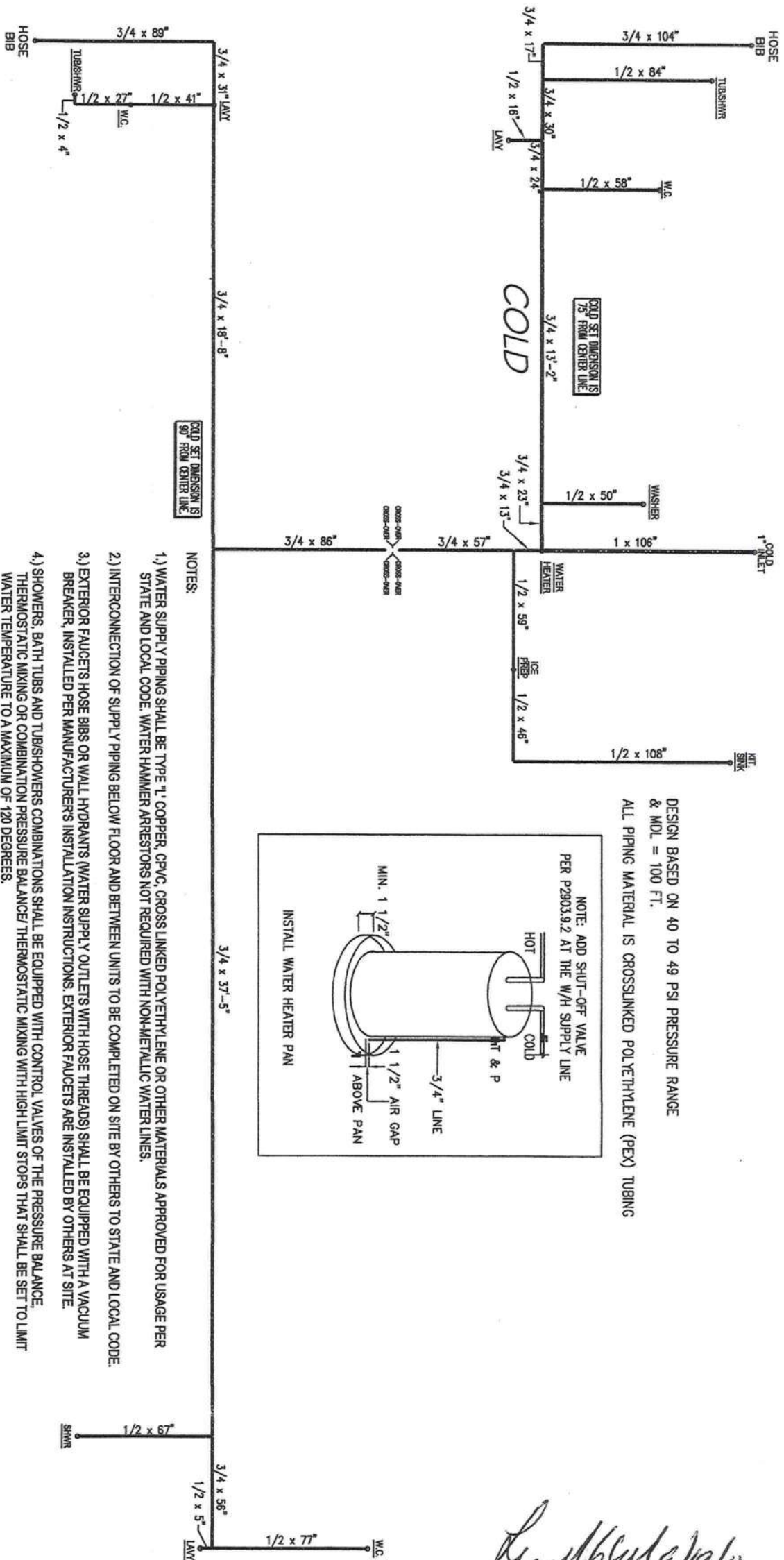
FIELD INSTALLED DWV FITTINGS		
QTY	Description	
3	Clean Out 3"	
1	Double Elbow 3"	
1	Elbow 1 1/2" 90 Degree XLT	
2	Elbow 2" 90 Degree XLT	
4	LTTY 3"	
1	LTTY 3" x 3" x 1-1/2"	
2	LTTY 3" x 3" x 2"	

Sheet Title: DWV PLAN	Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12	P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33880 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
Sheet Number P1.01	Sheet 11 of 18	Plan #: 2102-1043F	

COA # 1026

PW

APPROVAL
These prints comply with the Florida Manufactured Building and All Other Construction Codes and are subject to the following covenants:
CONSTR. TYPE: **NA**
OCCUPANCY: **NA**
ALLOWABLE NO. OF UNITS: **1**
WIND VELOCITY (150 MPH): **0**
FIRE RATING OF EXT. WALLS: **0**
FLOOR FLOOR: **2102-1043F**
LOAD: **0**
APPROVAL DATE: **6-18-12**
MANUFACTURER: **CH**
HIGH VELOCITY HURRICANE ZONE: **NO**



DESIGN BASED ON 40 TO 49 PSI PRESSURE RANGE
& MDL = 100 FT.
ALL PIPING MATERIAL IS CROSSLINKED POLYETHYLENE (PEX) TUBING

NOTE: ADD SHUT-OFF VALVE
PER P2903.9.2 AT THE W/H SUPPLY LINE

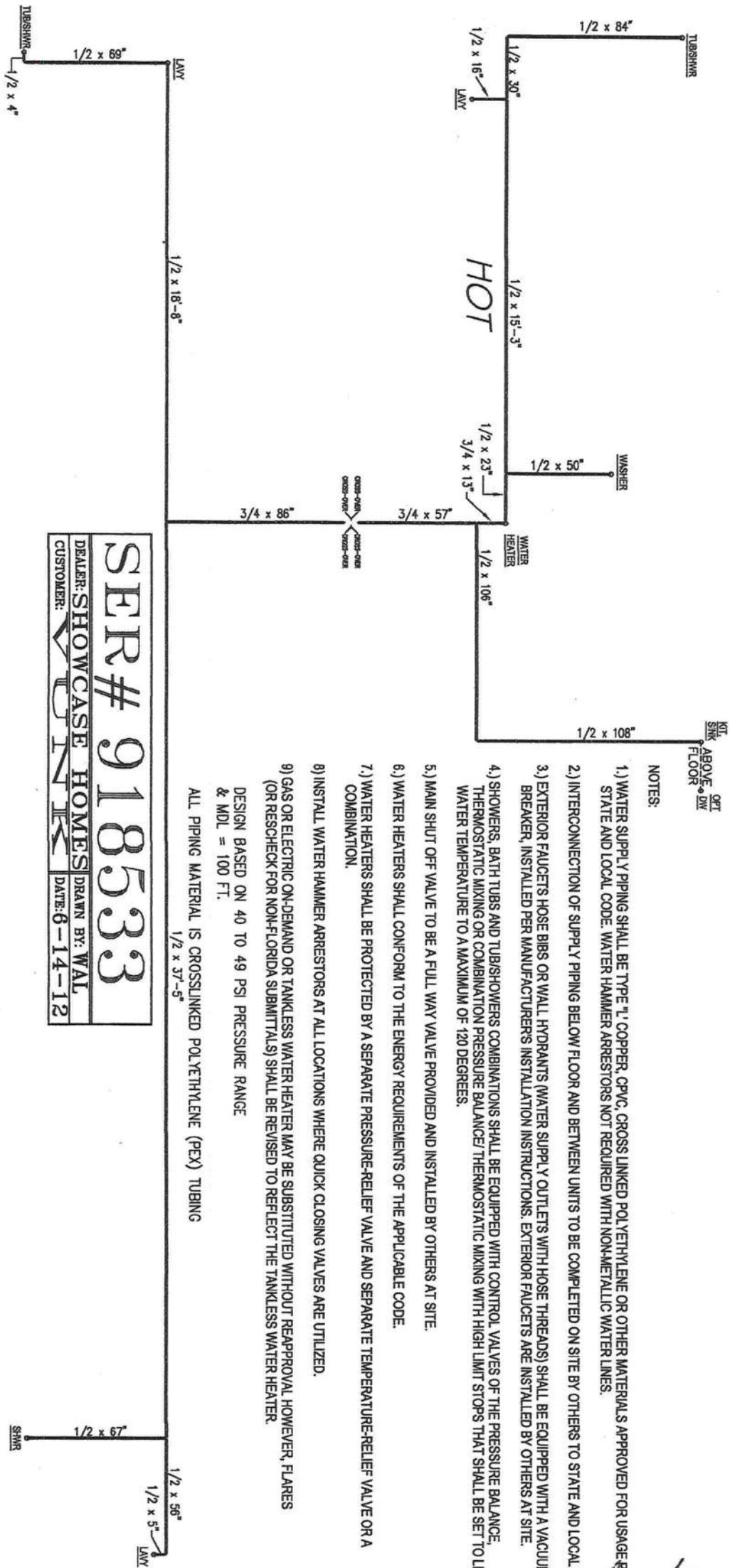
COLD SET DIMENSION IS
90\"/>

NOTES:

- 1.) WATER SUPPLY PIPING SHALL BE TYPE 1/2\"/>

SER# 918533
DEALER: SHOWCASE HOMES
CUSTOMER: VUNK
DRAWN BY: WAL
DATE: 6-14-12

Sheet Title: COLD SUPPLY LINES		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:		P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566		Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved			
Sheet Number P1.02		Listing Agency Approval This drawing is for the use of the Manufacturer Building and is not to be used for any other purpose without the written consent of the Manufacturer. CONSTR. TYPE: V OCCUPANCY: R3 ALLOWABLE NO. OF FLOORS: 1 WIND VELOCITY (150 MPH): 1 FIRE RATING OF EXTERIOR WALL: 0 ALLOW. FLOOR LOAD: 40 APPROVAL DATE: 6-18-12 MANUFACTURER: HET HIGH VELOCITY HURRICANE ZONE: NO		COA # 1025 		Sheet 12 of 18 Plan #: 2102-1043F			



NOTES:

- 1.) WATER SUPPLY PIPING SHALL BE TYPE "L" COPPER, CPVC, CROSS LINKED POLYETHYLENE OR OTHER MATERIALS APPROVED FOR USAGE PER STATE AND LOCAL CODE. WATER HAMMER ARRESTORS NOT REQUIRED WITH NONMETALLIC WATER LINES.
 - 2.) INTERCONNECTION OF SUPPLY PIPING BELOW FLOOR AND BETWEEN UNITS TO BE COMPLETED ON SITE BY OTHERS TO STATE AND LOCAL CODE.
 - 3.) EXTERIOR FAUCETS HOSE BIBS OR WALL HYDRANTS (WATER SUPPLY OUTLETS WITH HOSE THREADS) SHALL BE EQUIPPED WITH A VACUUM BREAKER, INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS. EXTERIOR FAUCETS ARE INSTALLED BY OTHERS AT SITE.
 - 4.) SHOWERS, BATH TUBS AND TUB/SHOWERS COMBINATIONS SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC MIXING OR COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING WITH HIGH LIMIT STOPS THAT SHALL BE SET TO LIMIT WATER TEMPERATURE TO A MAXIMUM OF 120 DEGREES.
 - 5.) MAIN SHUT OFF VALVE TO BE A FULL WAY VALVE PROVIDED AND INSTALLED BY OTHERS AT SITE.
 - 6.) WATER HEATERS SHALL CONFORM TO THE ENERGY REQUIREMENTS OF THE APPLICABLE CODE.
 - 7.) WATER HEATERS SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND SEPARATE TEMPERATURE-RELIEF VALVE OR A COMBINATION.
 - 8.) INSTALL WATER HAMMER ARRESTORS AT ALL LOCATIONS WHERE QUICK CLOSING VALVES ARE UTILIZED.
 - 9.) GAS OR ELECTRIC ON-DEMAND OR TANKLESS WATER HEATER MAY BE SUBSTITUTED WITHOUT REAPPROVAL HOWEVER, FLARES (OR RESCHECK FOR NON-FLORIDA SUBMITTALS) SHALL BE REVISED TO REFLECT THE TANKLESS WATER HEATER.
- DESIGN BASED ON 40 TO 49 PSI PRESSURE RANGE
& MDL = 100 FT.
- ALL PIPING MATERIAL IS CROSSLINKED POLYETHYLENE (PEX) TUBING
1/2 x 37'-5"

SER# 918533

DEALER: SHOWCASE HOMES
CUSTOMER: VUNK
DRAWN BY: WAL
DATE: 6-14-12

Sheet Title: HOT SUPPLY LINES		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:		P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 FL Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566		Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved	
Sheet Number P1.03		Sheet 13 of 18		Plan #: 2102-1043F		COA # 1025	



THIS DETAIL IS FOR ALL GAS PIPING IN THIS MODEL.

LISTED FLEX CONNECTOR AT EACH APPLIANCE

TYPICAL LISTED SHUT OFF VALVE AT EACH APPLIANCE

TYPICAL FITTING RISER

TYPICAL LISTED SHUT OFF VALVE AT EACH APPLIANCE

MAXIMUM OVERALL DEVELOPED LENGTH 50'-0" TOTAL BTU'S 180,000

* = TYPICAL 1/2" PIPE RISER @ EACH APPLIANCE

All piping to be wrought iron.

SER# 918533
DEALER: SHOWCASE HOMES
CUSTOMER: VINTAGE
DRAWN BY: WAL
DATE: 6-14-12

Leonard G. Wood

Sheet Title: GAS SUPPLY LINES	Sheet Number P1.04	Sheet 14 of 18	Plan #: 2102-1043F	Model Number: C9527-D	Sales Name: CUSTOM - VUNK	Series: COLLINS CRAFT	Drawn by: WAL	Date: 5-31-12	Notes:	Plant Information Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 Fl. Lic. No. 47377 Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69	© Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
-----------------------------------------	------------------------------	-------------------	------------------------------	---------------------------------	-------------------------------------	---------------------------------	-------------------------	-------------------------	--------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------	--------------------------------------------------------------------

Shear Wall Table Notes:



Numbers shown in table column headings (1) through (9) for one story, (1) through (11) for 2 story, correspond with note numbers. Refer to floor plans for shear wall locations corresponding to alpha-numeric designation in 1st column of table.

1. Design Shear Values are based on the WFTM - 2001 Edition. All values for DSV and fastening is based on S-P-F lumber, unless otherwise specified.
 2. Indicates whether sheathing is required on one side only with interior covering, or required both sides of wall with interior covering over sheathing.
 3. Nails may either be 6d Common (0.113x1 5/8) or 8d Common (0.131x 1 3/4). 8d nails yield better DSV's.
 4. Edge / Field spacing. Edge fastening is into each framing member. When sheathing overlap onto rim joist is not used and 2/12 shearwall sheathing fastening is required, it also requires double top and bottom plates.
 5. Number and minimum length of each shear wall section within each end wall.
 6. Indicates number of framing members required each end of each shear section. Minimum framing as indicated in table header.
 7. Indicates the number of rows of nails spaced @ 2' o.c., through the sheathing overlap onto the floor framing.
 8. Alternatively, screws may be used at x/y, where x=number of rows and y=number of screws per foot for each row. Connection is through the bottom plate into floor joists with minimum 2-1/2" penetration. When double plates are required per Note (6), make sure to increase fastener length.
 9. Top plate to rafter or ceiling joist is the spacing (inches o/c) with #8 screws or 0.131" diameter nails with 1-3/8" minimum penetration into receiving member.
 10. For 2 story only: The 2x, factory installed bearing plate at each end at the very top of the lower story must be fastened to the ceiling framing with #10 x 3" screws spaced (inches on center) per table. Factory installed Note: column 10 is not displayed for one story or cape applications.
 11. For 2 stories, on-site connection is required between the upper and lower story using #10x3" screws (toed), installed through the upper story end joist into the lower story, factory installed 2x bearing plate of the lower story, spaced per column 11.
- Special Note: With hinged roof, the truss above the end wall (shear wall) must be sheathed after erection. In the case of a porch, the truss above the end wall at the main roof to porch transition, must be sheathed for a minimum of 48" length, anywhere along the truss and fastened to truss chords with 8d common nails spaced per column "Porch Truss". Sheathing in spaces between the chords greater than 24" must be stiffened with a 2x3 vertical member, fastened to sheathing with the same nails at 2' o.c.

See Shearwall tables on other pages in this package.

Shear Wall General Notes:

1. LSA1 and 2 represent longitudinal shear sections for unit with A and B end shearwalls. LSC1 and 2 represent longitudinal shear sections for unit with C and D end shearwalls, respectively. The table notes above (except (6)) apply.
2. How to read Roof Diaphragm Connection Table: Check "Dd Fast'g" column. If "N/A" is displayed, no special fastening required in End Zone. Use the required spacing column for at least the distance tabulated in the first non-zero column, then the spacing in that column is required to the distance in the next column to the right and so forth or the Req'd Spacing can be used throughout. If double fastening is required for any of the shear wall conditions (A,B,C or D), the fastening must be maintained to the first truss at or beyond the distance shown in the first column (A) of the single fastener spacing table, for the respective shear wall, or, when that column is zero, to the first non-zero distance of any of the other columns (B to E) to a distance of any of the other tabulated fastening requirements (Columns B to E).
3. When Roof Diaphragm construction requires special fastening within the end zone(s), the fastening displayed is doubled, i.e. 2 fasteners @ each location. Example: Dd @ 6/6 means 2 fasteners each at 6" o.c. field and 2 each at 6" o.c. perimeter. The fastening is required within distance from the roof end as displayed (ft) or next truss. "N/A" means the end zone fastening is the same as normal.
4. If the wind speed determined for the seismic zone is higher than the speed from the wind map for the home site, it need only be applied to construction requirements for shearwall, diaphragms and shearwall anchorage / foundation designs. It must also be applied to connections for wall to floor and wall to roof. All other construction is to be according to the actual wind speed for the site.

Sheet Title: SHEARWALL NOTES		Sheet Number: S0.01		Sheet 15 of 18		Plan #: 2102-1043F		
		LISTING AGENCY APPROVAL <small>These prints comply with the Florida Building Code and are subject to the Building Official's review.</small> CONTRACT TYPE: VB OCCUPANCY: R3 ALLOWABLE NO. OF FLOORS: 1 WIND VELOCITY (15 MPH): 130 (15 MPH) WIND PRESSURE (PSF): 15.0 PLAN NO.: 2102-1043F ALLOW. FLOOR LOAD: 40 APPROVAL DATE: 6-18-12 MANUFACTURER: PHI HIGH VELOCITY HARBOR ZONE: NO		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:		P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33880 Phone 883-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566		Plant Number: 69  © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved

Design Wind Speed is ultimate mph per ASCE 7-10
See appropriate Risk Category map for site location
Shear Wall Requirements

A & B
Wind Speed: 150 Side Wall HT: 108 Exposure: D Max Elev: 36 24" O.C. - TYP
Framing: 2x6

Shear Wall	Min. PLF (1)	Sheathed Sides # (2)	Nails Spacing (3)	SW Sections (4)	End Stud # (5)	Rows of Nails in Stud (6)	Straps at SW End Stud (7a)	# of Screws/ft (8)	Top Plate to Rafter (9)	Porch Truss (10)
A1	641	1	8d	3/6	72	2	N/A	or 1/7	2 1/2	N/A
B1	641	1	8d	3/6	72	2	N/A	or 1/7	2 1/2	N/A
LSAB1	366	1	8d	6/6	84	N/A	2	or 1/2	4 1/4	N/A
C1	641	1	8d	3/6	72	2	N/A	or 1/7	2 1/2	N/A
D1	641	1	8d	3/6	72	2	N/A	or 1/7	2 1/2	N/A
LSCD1	366	1	8d	6/6	84	N/A	2	or 1/2	4 1/4	N/A

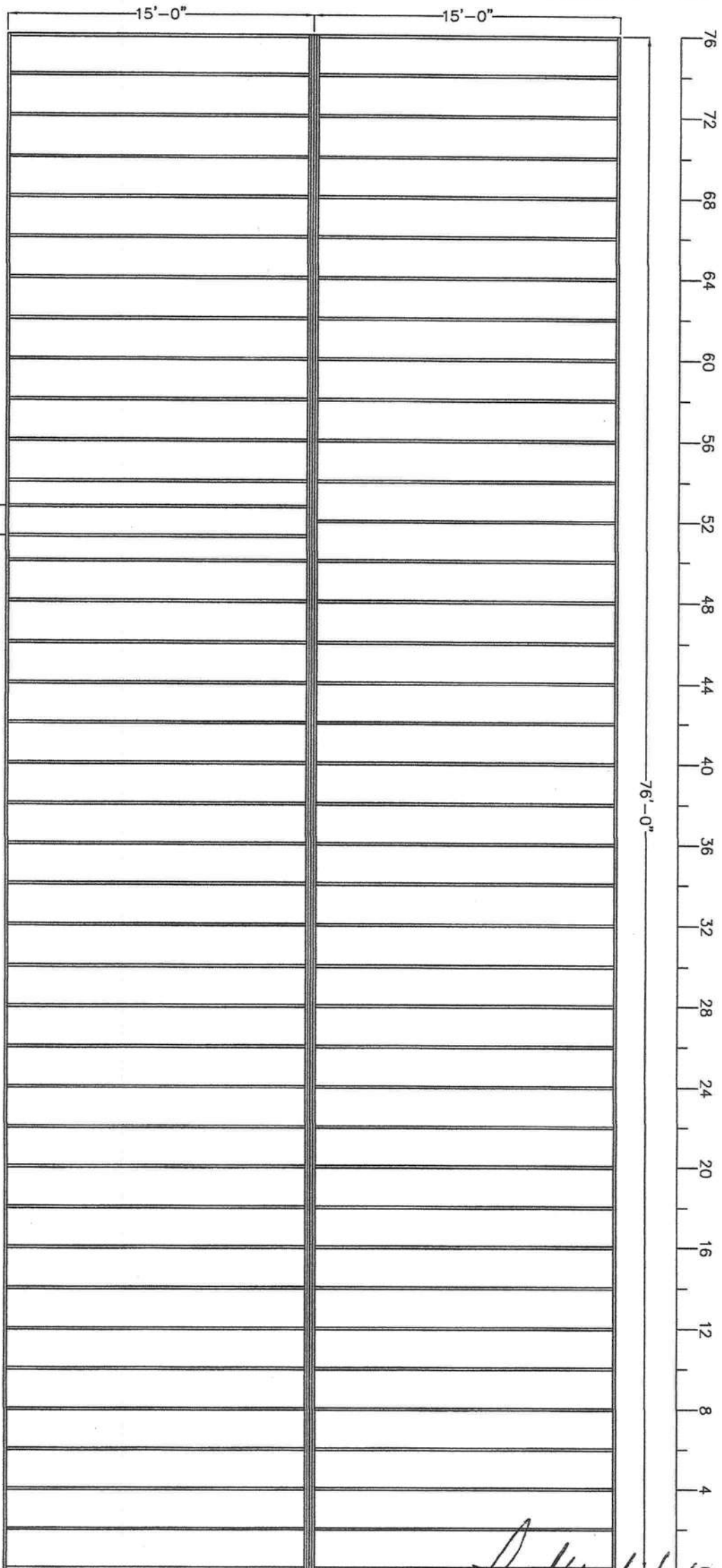
Truss Spacing: 24
Minimum Roof Diaphragm Connections using: 8d BOX
ASCE 7-10

Diaphragm Connections		Spacing w/Single Fasteners				
Shear Wall	Fast'g	Req'd Spacing	A	B	C	D
A	Dbl @4/8	see Dbl col	6	13	16	19
B	Dbl @4/8	see Dbl col	6	13	16	19
C	Dbl @4/8	see Dbl.col	6	13	16	19
D	Dbl @4/8	see Dbl.col	6	13	16	19

COLUMNS RANCH STORY									
ROOF LOAD: 20 PSF WIND SPEED: 150 MPH Valt									
NO.	26 GA STRAP	TYPE	NUM	LENGTH	SIZE	BLK	FLOOR WIDTH	SPAN	LOAD
A	2	1	3	105	2x3	N	180	14'-5"	1892
B	2	1	3	105	2x3	N	180	14'-5"	1892
C	2	1	3	105	2x3	N	180	14'-5"	1892
D	2	1	3	105	2x3	N	180	14'-5"	1892

Leonard G. Wood, P.E.

Sheet Title: COLUMN & SHEARWALL TABLES Sheet Number: S1.02 Sheet 16 of 18 Plan #: 2102-1043F	WVG COA # 1025 HIGH VELOCITY HARBORZONE ZONE APPROVAL: NO APPROVAL DATE: 07-18-12 MANUFACTURER: PHIL LISTING AGENCY: NO	Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:	P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33880 Phone 883-430-2717 FL Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
-------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------



SER# 918533
DEALER: SHOWCASE HOMES
CUSTOMER: VUNK
DATE: 6-14-12
DRAWN BY: WAL

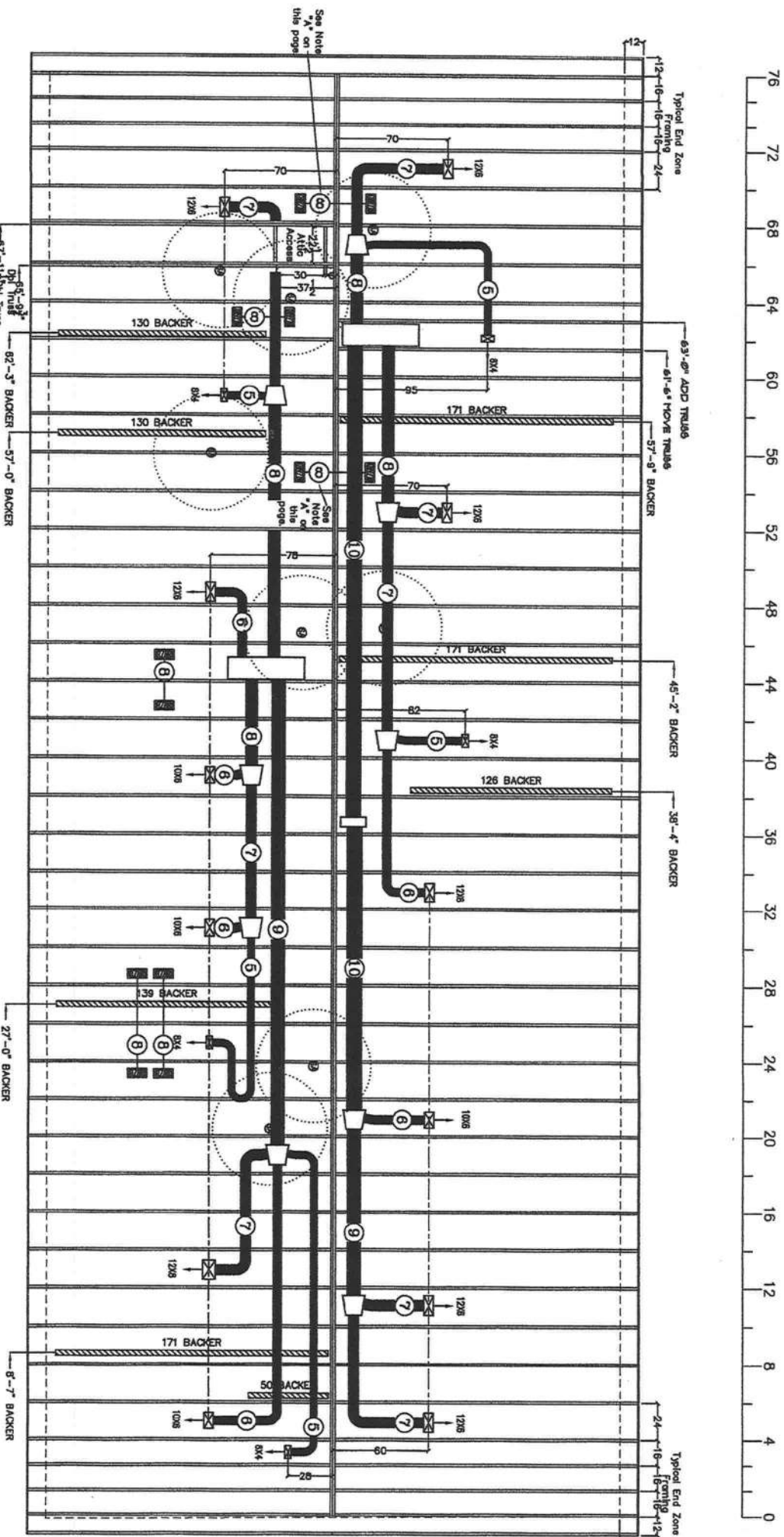
ON - FRAME FLOOR FRAMING

- NOTES:
1. MAIN FLOOR FRAMING IS 2x8 #2 SPF MIN. @ 24" O.C. EXCEPT WHERE NOTED
 2. DOUBLE MATE LINE PERIMETER RAIL

Sheet Title: FLOOR FRAMING		WVG COA # 1026		LISTING Hilborn, Werner, Carter and Associates (HWC) 1627 South Myrtle Ave Clearwater, FL 33766		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:		P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566		Plant Number: 69 Palm Harbor Homes © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved	
Sheet Number S1.02											
Sheet 17 of 18											
Plan #: 2102-1043F											

GABLE ENDWALL TRUSS W/DIAGONAL BRACING WHEN HINGED TRUSS IS APPLICABLE SEE PAGE RF-150-3 OF THE FL MODULAR MANUAL FOR FIXED TRUSS SEE FMM PA150-2.11

1. HVAC duct systems, when installed, consist of either insulated fiberglass duct board, or insulated flexible duct or a combination of both, return R-6 in the roof attic.
2. Ducts must be installed in accordance with the manufacturer's installation instructions and shall bear a listing and label indicating compliance with UL 181 and UL 181A or UL 181C.
3. Joints and seams are to be made substantially airtight by means of tapes, mastic or other systems as approved in the manufacturer's installation instructions (e.g., plastic tie straps).
4. Duct installed in floors supported as required by manufacturer. Ducts installed in attic are supported by the truss framing members and need no additional supports. Register returns are supported by the truss framing members and need no additional supports.
5. All duct work installed outside the conditioned envelope shall have a minimum R-8 and be listed for use as exterior duct.
6. Return air balance (from room to room) may be achieved through the installation of "jump ducts" on ceiling return air pathways, under doors, and/or return air grills.
7. All gable endwalls shall be braced in accordance with Palm Harbor Home's Florida Modular Construction Manual.
8. All exhaust fans vents shall be ducted to the exterior of the structure.
9. Roof vents shall be installed in accordance with the manufacturer's instructions. Exhaust roof vents or ridge ventilation. Either or all of these methods may also be used separately or in combination to provide the minimum roof ventilation of 1/150.
10. All return air grills to be 24" x 26" unless noted otherwise on the plans.
11. Return air grills to be 24" x 26" unless noted otherwise on the plans.
12. All return air grills to be 24" x 26" unless noted otherwise on the plans.
13. All return air grills to be 24" x 26" unless noted otherwise on the plans.
14. All return air grills to be 24" x 26" unless noted otherwise on the plans.
15. All return air grills to be 24" x 26" unless noted otherwise on the plans.
16. All return air grills to be 24" x 26" unless noted otherwise on the plans.
17. All return air grills to be 24" x 26" unless noted otherwise on the plans.
18. All return air grills to be 24" x 26" unless noted otherwise on the plans.
19. All return air grills to be 24" x 26" unless noted otherwise on the plans.
20. All return air grills to be 24" x 26" unless noted otherwise on the plans.
21. All return air grills to be 24" x 26" unless noted otherwise on the plans.
22. All return air grills to be 24" x 26" unless noted otherwise on the plans.
23. All return air grills to be 24" x 26" unless noted otherwise on the plans.
24. All return air grills to be 24" x 26" unless noted otherwise on the plans.
25. All return air grills to be 24" x 26" unless noted otherwise on the plans.
26. All return air grills to be 24" x 26" unless noted otherwise on the plans.
27. All return air grills to be 24" x 26" unless noted otherwise on the plans.
28. All return air grills to be 24" x 26" unless noted otherwise on the plans.
29. All return air grills to be 24" x 26" unless noted otherwise on the plans.
30. All return air grills to be 24" x 26" unless noted otherwise on the plans.
31. All return air grills to be 24" x 26" unless noted otherwise on the plans.
32. All return air grills to be 24" x 26" unless noted otherwise on the plans.
33. All return air grills to be 24" x 26" unless noted otherwise on the plans.
34. All return air grills to be 24" x 26" unless noted otherwise on the plans.
35. All return air grills to be 24" x 26" unless noted otherwise on the plans.
36. All return air grills to be 24" x 26" unless noted otherwise on the plans.
37. All return air grills to be 24" x 26" unless noted otherwise on the plans.
38. All return air grills to be 24" x 26" unless noted otherwise on the plans.
39. All return air grills to be 24" x 26" unless noted otherwise on the plans.
40. All return air grills to be 24" x 26" unless noted otherwise on the plans.
41. All return air grills to be 24" x 26" unless noted otherwise on the plans.
42. All return air grills to be 24" x 26" unless noted otherwise on the plans.
43. All return air grills to be 24" x 26" unless noted otherwise on the plans.
44. All return air grills to be 24" x 26" unless noted otherwise on the plans.
45. All return air grills to be 24" x 26" unless noted otherwise on the plans.
46. All return air grills to be 24" x 26" unless noted otherwise on the plans.
47. All return air grills to be 24" x 26" unless noted otherwise on the plans.
48. All return air grills to be 24" x 26" unless noted otherwise on the plans.
49. All return air grills to be 24" x 26" unless noted otherwise on the plans.
50. All return air grills to be 24" x 26" unless noted otherwise on the plans.
51. All return air grills to be 24" x 26" unless noted otherwise on the plans.
52. All return air grills to be 24" x 26" unless noted otherwise on the plans.
53. All return air grills to be 24" x 26" unless noted otherwise on the plans.
54. All return air grills to be 24" x 26" unless noted otherwise on the plans.
55. All return air grills to be 24" x 26" unless noted otherwise on the plans.
56. All return air grills to be 24" x 26" unless noted otherwise on the plans.
57. All return air grills to be 24" x 26" unless noted otherwise on the plans.
58. All return air grills to be 24" x 26" unless noted otherwise on the plans.
59. All return air grills to be 24" x 26" unless noted otherwise on the plans.
60. All return air grills to be 24" x 26" unless noted otherwise on the plans.
61. All return air grills to be 24" x 26" unless noted otherwise on the plans.
62. All return air grills to be 24" x 26" unless noted otherwise on the plans.
63. All return air grills to be 24" x 26" unless noted otherwise on the plans.
64. All return air grills to be 24" x 26" unless noted otherwise on the plans.
65. All return air grills to be 24" x 26" unless noted otherwise on the plans.
66. All return air grills to be 24" x 26" unless noted otherwise on the plans.
67. All return air grills to be 24" x 26" unless noted otherwise on the plans.
68. All return air grills to be 24" x 26" unless noted otherwise on the plans.
69. All return air grills to be 24" x 26" unless noted otherwise on the plans.
70. All return air grills to be 24" x 26" unless noted otherwise on the plans.
71. All return air grills to be 24" x 26" unless noted otherwise on the plans.
72. All return air grills to be 24" x 26" unless noted otherwise on the plans.
73. All return air grills to be 24" x 26" unless noted otherwise on the plans.
74. All return air grills to be 24" x 26" unless noted otherwise on the plans.
75. All return air grills to be 24" x 26" unless noted otherwise on the plans.
76. All return air grills to be 24" x 26" unless noted otherwise on the plans.
77. All return air grills to be 24" x 26" unless noted otherwise on the plans.
78. All return air grills to be 24" x 26" unless noted otherwise on the plans.
79. All return air grills to be 24" x 26" unless noted otherwise on the plans.
80. All return air grills to be 24" x 26" unless noted otherwise on the plans.
81. All return air grills to be 24" x 26" unless noted otherwise on the plans.
82. All return air grills to be 24" x 26" unless noted otherwise on the plans.
83. All return air grills to be 24" x 26" unless noted otherwise on the plans.
84. All return air grills to be 24" x 26" unless noted otherwise on the plans.
85. All return air grills to be 24" x 26" unless noted otherwise on the plans.
86. All return air grills to be 24" x 26" unless noted otherwise on the plans.
87. All return air grills to be 24" x 26" unless noted otherwise on the plans.
88. All return air grills to be 24" x 26" unless noted otherwise on the plans.
89. All return air grills to be 24" x 26" unless noted otherwise on the plans.
90. All return air grills to be 24" x 26" unless noted otherwise on the plans.
91. All return air grills to be 24" x 26" unless noted otherwise on the plans.
92. All return air grills to be 24" x 26" unless noted otherwise on the plans.
93. All return air grills to be 24" x 26" unless noted otherwise on the plans.
94. All return air grills to be 24" x 26" unless noted otherwise on the plans.
95. All return air grills to be 24" x 26" unless noted otherwise on the plans.
96. All return air grills to be 24" x 26" unless noted otherwise on the plans.
97. All return air grills to be 24" x 26" unless noted otherwise on the plans.
98. All return air grills to be 24" x 26" unless noted otherwise on the plans.
99. All return air grills to be 24" x 26" unless noted otherwise on the plans.
100. All return air grills to be 24" x 26" unless noted otherwise on the plans.



RIDGE BEAM: 3 LAYER OF 15/32" x 16" HIGH (8 LAYER / 3 PLY) PLYWOOD ALL PLIES GROUP I (32/16 INDEX)

Wind Speed	Interior	End
150 mph Valt	24" o.c.	16" o.c.
170 mph Valt	16" o.c.	12" o.c.
180 mph Valt	16" o.c.	12" o.c.

Minimum Return Air Path:
The minimum return air path is determined by the total cfm's delivered through supply duct into the space closed off from the main return. Return duct and grill capacities must be equal to or greater than the cfm's delivered into the space. The following are acceptable methods of return air provisions and may be used in combination. Each method is described in detail below.
a) In-ceiling return air grills
b) Return air grills in walls
c) Openings above door and/or walls without grills.

SER# 918533
DEALER: SHOWCASE HOMES
CUSTOMER: VUNKL
DATE: 8-14-12

TRUSS NUMBERS
TRUSS # HM4933

Sheet Title:	ROOF & DUCT PLAN
Sheet Number	S1.03
Sheet	18 of 18
Plan #:	2102-1043F

COA # 1026	WV
APPROVAL DATE	6/18/12
MANUFACTURER	NO
HIGH VELOCITY HURRICANE ZONE	NO

Model Number:	C9527-D
Sales Name:	CUSTOM - VUNK
Series:	COLLINS CRAFT
Drawn by:	WAL
Date:	5-31-12

Leonard G. Wood, P.E.	Plant Number:
4034 The Fenway	69
Mulberry, Florida 33860	
Phone 863-430-2717	
Fl. Lic. No. 47377	
Plant Information	
Palm Harbor Homes	
605 S. Frontage Road	
Plant City, Florida 33566	

© Copyright 2011	
Palm Harbor Homes, Inc.	
All Rights Reserved	

NOTES:

- 1) CRAWL SPACE ACCESS OPENING MUST BE 24" WIDE X 18" HIGH OR AS MANDATED BY LOCAL CODES. ACCESS MAY BE LOCATED ANYWHERE EXCEPT UNDER DOORS, PORCHES AND SHEAR WALLS.
- 2) CRAWL SPACE VENTILATION OPENINGS REQUIRED WITHIN 36" OF EACH CORNER OR AS MANDATED BY LOCAL CODE.
- 3) UNLESS OTHERWISE SPECIFIED, FOOTERS ALONG CENTERLINE ARE 24x24x8 MIN.
- 4) MINIMUM CONCRETE COMPRESSIVE STRENGTH (fc') IS 3000 PSI AFTER 28 DAYS.
- 5) MINIMUM CLEARANCE IN CRAWL SPACE IS 18" BETWEEN GROUND AND WOOD FRAMING.
- 6) FOUNDATION WALLS ARE POURED CONCRETE OR FULLY MORTARED CONCRETE BLOCK (CMU).
- 7) DESIGN BASED ON 20 PSF ROOF LIVE LOAD & 40 PSF FLOOR LIVE LOAD.
- 8) LOCAL SITE CONDITIONS WHICH VARY SUBSTANTIALLY FROM ASSUMPTIONS NOTED ON THIS DRAWING, MAY AT THE DISCRETION OF THE LOCAL BUILDING OFFICIAL, REQUIRE A FOUNDATION DESIGNED BY A PROFESSIONAL ENGINEER WHO IS FAMILIAR WITH THE SPECIFIC SITE CONDITIONS.
- 9) CONCRETE CURING TIME: IN ACCORDANCE WITH ACI-308, MAINTAIN CURING MEASURES BEFORE CONSTRUCTION ON CONCRETE FOUNDATION COMPONENTS BEGINS, UNTIL A MINIMUM OF 70% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH HAS BEEN ACHIEVED. THE RECOMMENDED TIME TO ATTAIN THIS LEVEL OF STRENGTH IS 7 DAYS FOR ASTM C150 TYPE 1 MIXTURES AND 10 DAYS FOR TYPE II MIXTURES. "IN SERVICE" LOADING (FULL DESIGN LIVE & DEAD LOADS) MAY NOT BE APPLIED UNTIL THE 28 DAY DURATION HAS ELAPSED FOR ACHIEVING FULL STRENGTH
- 10) STANDARD FASTENING OF HOUSE TO FOUNDATION - TOENAIL PERIMETER JOIST TO SILL PLATE WITH 16d NAILS PER CHARTS ON PAGES S0.05 & S0.06
- 11) NOTE: ACCESSES UNDER PORCHES ARE NOT IN PLACE OF BUT IN ADDITION TO MAIN ACCESS.



INDICATES THE SHEARWALL LOCATIONS. SEE SHEAR WALL SUMMARY FOR ANCHORAGE AND FOUNDATION REQUIREMENTS AT SHEAR WALL LOCATIONS SHOWN.

NOTE TO CONTRACTORS: WIDTH OF FOUNDATION PLANS MAY NOT MATCH FLOOR PLAN DIMENSIONS. (TYPICALLY PAGE A1.01) FOUNDATION PLANS HAVE BEEN DESIGNED TO BE (1") WIDER PER MODULE THAN FLOOR PLANS, TO ACCOMMODATE FLOOR PLAN GROWTH DUE TO CENTERLINE STRAPPING, AND EXTERIOR SHEATHINGS. THIS APPLIES ONLY TO DOUBLE WIDE SECTIONS AND THE OUTER SECTIONS OF TRIPLE WIDES ONLY. DOES NOT APPLY TO CENTER SECTION OF TRIPLE WIDES.

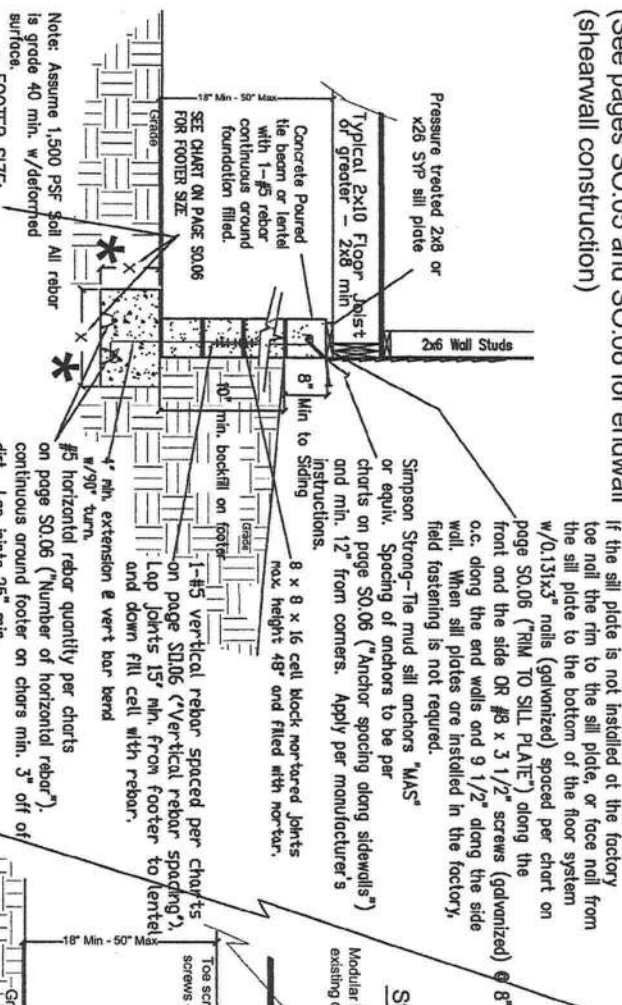
NOTE TO CONTRACTORS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH, WIDTH, AND OTHER STANDARD OR OPTIONAL FEATURES SUCH AS BAYS, OFFSETS, PORCHES, ETC., AGAINST THE FACTORY SERIALIZED PRINT. CONTACT YOUR FACTORY REPRESENTATIVE FOR A SERIALIZED COPY OF YOUR PROJECT.

Sheet Title: FOUNDATION NOTES		Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:		P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
Sheet Number S0.03		Sheet 1 of 5		Plan #: 2102-####	

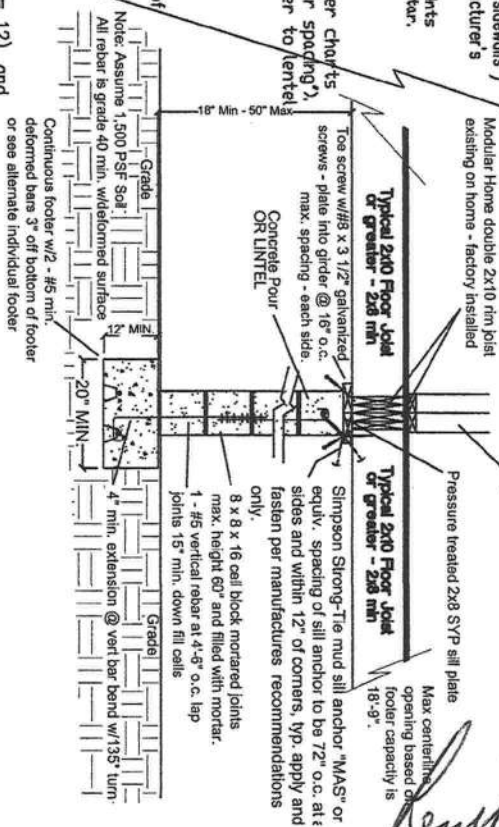
Notes:

1. Foundation and its structural elements shall be capable of accommodating all superimposed live, dead and other loads in accordance with applicable codes and all lateral loads in accordance with accepted design practices.
2. Lots shall be provided with drainage and shall be graded so as to drain surface water away from foundation walls - by lot owner.
3. Materials shall conform to applicable standards and codes.
4. Concrete subject to weathering shall have a minimum compressive strength and air content in accordance with code - 3000 psi concrete minimum.
5. All exterior walls, bearing walls, columns, and piers shall be supported on continuous solid concrete footings which shall be of sufficient design to support safely the loads imposed as determined from the character of the soil and shall in all cases extend below the frost line.
6. Foundation walls shall be constructed in accordance with the code and not less than as shown on the drawings.
7. Foundations shall extend not less than 12 inches below the finished natural grade or engineered fill and in no case less than the frost line depth. Footings on soil with lower allowable soil pressure shall be designed in accordance with accepted engineering practice. However, where there is evidence that the ground water table can rise to within 8 inches of the finished grade at the building site, the building official may require that the grade on the under - floor space be as high as the outside finished grade, unless an approved drainage system is provided. Terminate shields and/or protection shall be provided as per code. Local and state requirements for footings may exceed that shown on drawings. If any questions, contact your local building inspectors department.
8. Crawl spaces under buildings without basements shall be ventilated by approved mechanical means or by openings in the foundation walls. Openings shall be arranged to provide cross ventilation and shall be covered with corrosion-resistant wire mesh of not less than 1/4 inch nor more than 1/2 inch in any dimension. Openings in foundation walls shall have a net area of not less than 1 sq.ft. for each 150 sq.ft. of crawl space. Crawl space access of minimum 18" x 24" is required.
9. Mortar shall be type "M" or "S".
10. Proper support and tying down of your home are very important. Walls shall be as shown on the plan as prescribed on other details. The construction is designed for a continuous support at the perimeter and the center-line. Alternate foundations to the stem wall set included may be installed if a continuous support is provided to include a minimum of 1 1/2" of the bearing for the end of each floor joist, and the alternate foundation is designed by a registered professional engineer. The foundation and anchorage to the foundation of the unit to the foundation must be capable of withstanding uplift loads of 515#/ft. along the sidewalls and center-line wall and 550#/ft. sliding combined load - 2010 FBC, Residential Code.
11. Minimum soil bearing capacity shall be 1000 PSF.
12. For 20 PSF live roof loads only.
13. If site conditions vary from those listed or if a different setup is desired, consult a professional engineer for a new or altered design.
14. Soil bearing to be determined by test or by building official having jurisdiction at the set up site.

Stem Wall Details - Side Walls Only
(See pages SO.05 and SO.06 for endwall
(shearwall construction))



Stem Wall Details - Continuous Center Line Only



Foundation Systems
In accordance with the requirements of the Florida Department of Business & Professional Regulations, these building plans DO NOT contain foundation support and the down system details (any foundations that are included in the plan are considered options only).

1. Unless otherwise specified in this package, Palm Harbor Homes, Plant City, Florida, REQUIRES that ALL modular buildings be installed on a continuous permanent stem wall foundation. It is the responsibility of the contractor and/or retailer to verify that any foundation systems are in compliance with ALL applicable codes for the area in which the building is being installed. Palm Harbor Homes is NOT responsible for verifying local foundation requirements. When Palm Harbor Homes and/or its engineer provide a foundation plan, the contractor and/or retailer shall maintain responsibility for verifying compliance to local codes.
2. Homes may be "silt set" when the foundation system is designed by a local Registered Professional Engineer (RPE). All silt foundation systems shall provide support to the buildings structural components in the same manner as prescribed by the details for stem wall foundations. The design methods to be designed by others. The minimum mean roof height (MHR) as prescribed on this plan, shall not be exceeded. (See General Notes above).
3. When foundation plans are designed by others, Palm Harbor Homes and its third party approval agency(ies) along with the architect and/or the engineer of the building plans shall not be held responsible or liable for the foundation design and/or consequential performance of the superstructures structural components and systems relating thereto.
4. In ALL cases (regardless of who designs the foundation) the following requirements shall be met:
 - a. The foundation and its structural elements shall be capable of accommodating all superimposed live, dead and other loads in accordance with applicable codes and all lateral loads in accordance with accepted design practices.
 - b. Concrete subject to weathering shall have a minimum compressive strength and air content in accordance with the Florida Building Code - 3000 psi concrete minimum.
 - c. Foundation and anchorage of the building to the foundation shall be capable of withstanding a minimum of 515#/ft. uplift along the sidewalls and the marriage line(s) and a minimum of 550#/ft. sliding load over ALL connection point (foundation walls).
5. ALL foundation systems shall be designed by a Registered Professional Engineer or Architect licensed for the area in which the building is being installed.
6. ALL foundation and tie-down systems are subject to approval and inspection by the local jurisdiction having authority. It is the responsibility of the contractor and/or retailer to ensure compliance to applicable codes, obtain required permits and schedule required inspections.
7. ALL modular buildings shall be installed (set-up) by a licensed building contractor.
8. The licensed building contractor is responsible for verifying that the size, shape, height etc., of any supplied details or plans corresponds with the building being installed.

Sheet Title: FOUNDATION STEM WALL	Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:	P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 FL Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69 Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
Sheet Number S0.04			
Sheet 2 of 5			
Plan #: 2102-####			

Foundation Shear Wall General Notes:

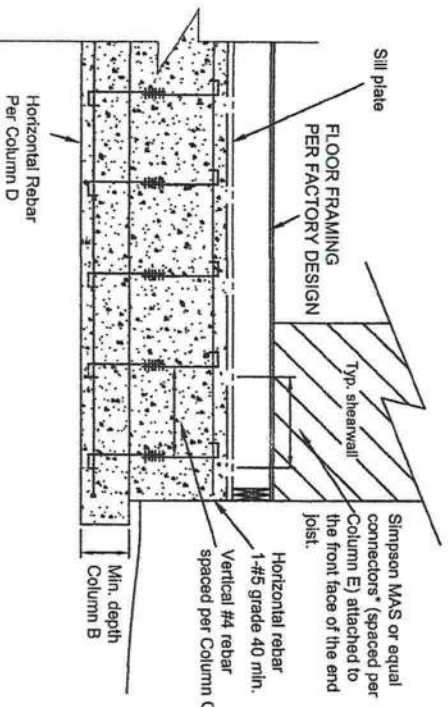
1. Connection requirements shown in Columns A through H apply to shear walls in end walls only.
2. Side wall connections are shown above the header of each table.
Rim to Sill Plate: Toe-nail the floor rim along the side walls to the sill plate with 0.131x3" nails at spacing shown in the appropriate table.
Anchor spacing along Side Walls: Anchorage at the foundation walls along each side wall consists of securing the pressure treated sill plate (S. Pine or better) to the foundation wall with $\frac{1}{2}$ " diameter Simpson or equal Wedge-All anchor bolts with 2 $\frac{1}{4}$ " minimum embedment spaced as indicated in the appropriate table
3. Use stainless steel fasteners with stainless steel connectors for all steel in contact with pressure treated lumber, or use hot-dipped galvanized fasteners (ASTM A153) with galvanized connectors (ASTM A653).

Foundation Shear Wall Table Notes:

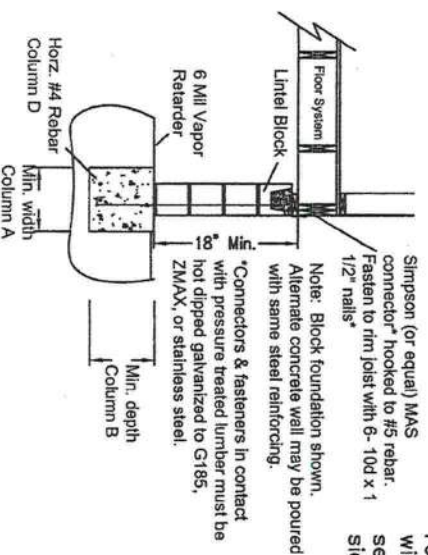
Letters in the table column headings (A through H) correspond with notes below. Refer to the typical foundation print for shear wall locations corresponding to alpha-numeric designations shown in first table column.

- A. Minimum footer width for the full width of the unit endwall the shear section(s) is/are in. See column D for the number of horizontal bars required in this footer. See details below.
- B. Minimum footer depth for the full width of the unit end wall the shear section(s) is/are in. See details below.
- C. Required spacing and size of the vertical rebar continuous from the lintel horizontal bar to the footing horizontal rebar. See details below.
- D. Required number and size of the horizontal rebar in the footing to be placed on chairs per code. Rebar is continuous (lapped) for the full length of footer. See details below.
- E. Required spacing of anchors from end joist of the module to the lintel horizontal rebar in the case of Simpson MAS connectors. When MAS or equal connectors are NOT used and another connector is not specified in this column, the connection must be designed by a local registered engineer. See details below.
- F. This column applies only when a Simpson MAS or equal connector is not used. In this case, a 4" sheathing strip is fastened with 0.099 x 1 $\frac{1}{2}$ " nails into the sill plate and the end joist, at the maximum spacing indicated in column F.
- G. Moment shown is in ft-lbs and is provided for a designer's use in case this foundation design is not practical or desired and an alternate foundation design is to be engineered. For elevated (still) sets this moment must be used to determine the required anchorage and foundation design.

Shear wall to Foundation



CMU or Poured Concrete Detail Under Shearwalls



Note: Footer width and thickness as shown in Columns A & B, are required only under the respective end shear wall, and extends the full width of the end wall, regardless of the shear segment(s) location or combined length(s). For side wall footer dimensions refer to other details.

See Foundation
Tables on other pages
in this package.

Sheet Title: FOUNDATION SHEAR WALL	Sheet Number: S0.05	Sheet 3 of 5	Plan #: 2102-####	State: 	Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:	P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
----------------------------------------------	-------------------------------	-----------------	-----------------------------	----------------	------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------

SIDE WALLS (except when elevated) ASCE 7-10

Location	Minimum Footer Size	Number of Horizontal Rebar	Vertical Rebar Spacing
6 FT. End Zone =	12 Wide x 15 Deep	2	24.4 inches o/c
Interior Zone =	12 Wide x 11.6 Deep	2	35.3 inches o/c

Rim to Sill Plate: 8.86 inches o/c.
Anchor Spacing Along Side Walls: 49.18 inches o/c.

SHEAR WALLS

Wind Speed: 150 Exposure: D Side Wall HT(in.): 108 Max Elev(in.): 36 Framing: 2x6

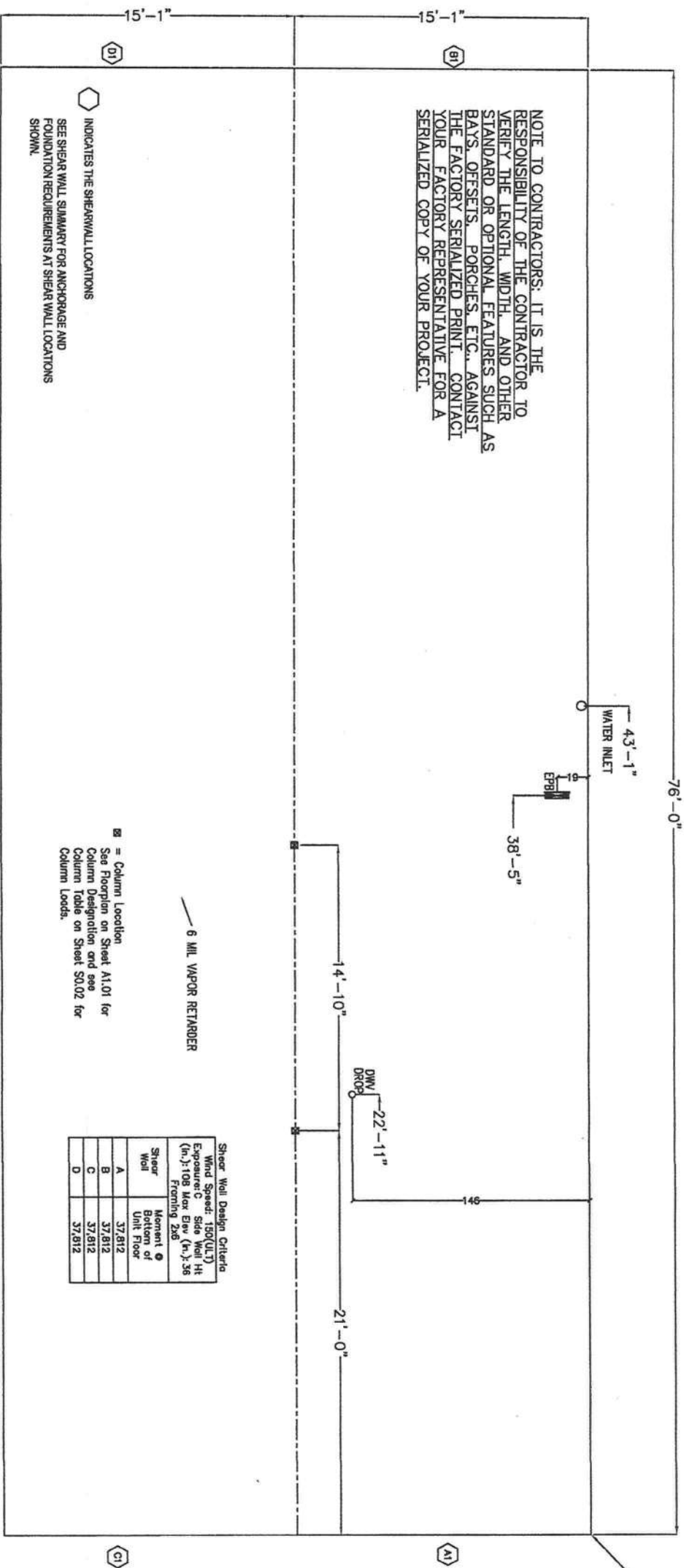
	A	B	C	D	E	F	G
Shear Wall	Min. Footer Width(in)	Min. Footer Depth(in)	#4 Vertical Rebar Spacing(in o.c.)	No of #4 Horizontal Rebars	Simpson MAS Conn (in o.c.)	Sheathing Strip to Sill and Rail	Moment at Bottom of Unit Floor
A	16	12	72	2	37	N/A	37812
B	16	12	72	2	37	N/A	37812
C	16	12	72	2	37	N/A	37812
D	16	12	72	2	37	N/A	37812

Sheet Title:	FOUNDATION SHEAR WALL TABLE
Sheet Number	S0.06
Sheet	4 of 5
Plan #:	2102-####

Drawing Information	
Model Number:	C9527-D
Sales Name:	CUSTOM - VUNK
Series:	COLLINS CRAFT
Drawn by:	WAL
Date:	5-31-12
Notes:	

P.E.	Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33880 Phone 863-430-2717 Fl. Lic. No. 47377
Plant Information	
	Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566

Plant Number:	69	
© Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved		



This foundation page is for sizing and demonstrative purposes only. Actual foundation plan and details are designed by others. See Florida Modular Manual IM-120 On-Frame Foundation & Site Connection Single Story Ranch up to 120 mph(nominal)/140 mph(ultimate) for on frame foundation design criteria. For wind speeds of 130mph (nominal)/150 mph(ultimate) or 140 mph(nominal)/160 mph (ultimate) see Florida Modular Manual IM-140 On-Frame Foundation and site Connection Single Story Ranch for on frame foundation design criteria.



Sheet Title: TYPICAL FOUNDATION	Drawing Information Model Number: C9527-D Sales Name: CUSTOM - VUNK Series: COLLINS CRAFT Drawn by: WAL Date: 5-31-12 Notes:	P.E. Leonard G. Wood, P.E. 4034 The Fenway Mulberry, Florida 33860 Phone 863-430-2717 Fl. Lic. No. 47377 Plant Information Palm Harbor Homes 605 S. Frontage Road Plant City, Florida 33566	Plant Number: 69 © Copyright 2011 Palm Harbor Homes, Inc. All Rights Reserved
Sheet Number PLAN S1.01			
Sheet 5 of 5			
Plan #: 2102-####			