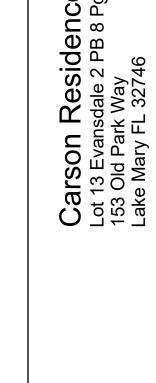
26 T3 - Floor & Roof Framing

Additional Drawings

Epicore Deck System
BlueLinx Framing Details
Topographical Survey
Tree Survey
Civil Drawings

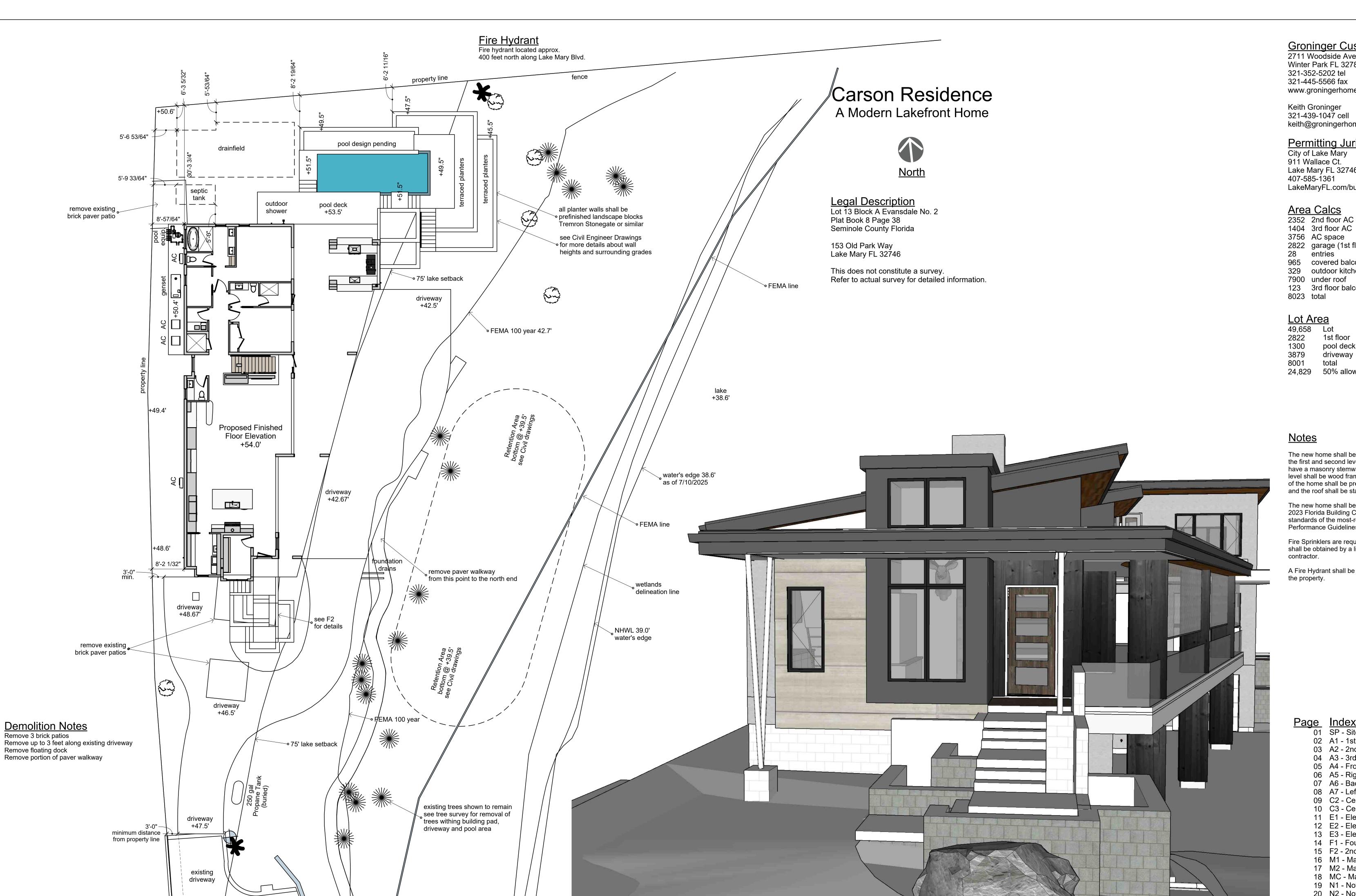


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Design Build (

Date 09/22/25

SP Page 01 of 26



remove existing floating dock

→ FEMA line

remove this section of paving

SP - Site Plan

Fire Dept. Access

Owner shall provide gate code

to Lake Mary Fire Department

A Fire Hydrant shall be located within 1000 feet of the property

to maintain 3 feet from or

property line

Termite Protection

Termite protection shall be provided by registered termiticides, including soil applied pesticides, baiting systems, and pesticides applied to wood, or other approved methods of termite protection labeled for use as a preventative

building official prior to the pouring of the slab, and the system must be

R318.1 Termite Protection.

treatment to new construction. R318.1.7 Termite Baiting System If a registered termiticide formulated and registered as a bait system is used for subterranean termite prevention, Sections R318.1.1 through R318.1.6

do not apply; however, a signed contract assuring the installation, maintenance and monitoring of the baiting system that is in compliance with the requirements of Chapter 482, Florida Statutes shall be provided to the installed prior to final building approval.

ENGINEERIN CA 180666

ANEL SOUTER, P.E. P.E. B.O. 547774
RLANDO, PL. 32854
ONE: (407) 421-4866

DANEL SC P.C. BOX ORLANDO

Kg3d Home Design 2711 Woodside Avenue Winter Park FL 32789 (321) 439-1047



Carson Residence
Lot 13 Evansdale 2 PB 8 Pg. 3
153 Old Park Way
Lake Mary FL 32746

ningerhomes.com

Date 09/22/25

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A1Page
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Framing & Lumber: All lumber shall be Southern Yellow Pine No. 2 with 19% or less moisture content. Exterior lumber shall be pressure treated. Non-bearing studs may be Spruce No. 2.

All 3-ply and 4-ply beams shall be bolted together with 1/2" diameter thru-bolts @24" staggered, or 3-ply beams shall be bolted together with 1/4"x4.5" SDS @12" on both sides, or 4-ply beams shall be bolted together with 1/4"x6" SDS @12" on both sides.

Unless noted otherwise:

1. use HETA16 for CMU to trusses, joists and beams 2. use LSTA30 or HTS20 for frame to joists and beams

3. use MTS12 for frame to trusses 4. use HUS26 as a 1-ply hanger and HGUS26-2 as 2-ply hanger 5. under girders and beams, use min. same number of studs as plys of girder or beam

6. all exterior walls to be treated as bearing walls 7. MTSA36 and HTS20 may be interchanged 8. all ganged (multple) studs shall have SP4; SP4 may be used in lieu of SP1 & SP2 9. provide hip roof deck support per APA guide

If a lintel strap is missed:

1. use HTSM16 w/ (4) 1/4"x2-1/4" Tapcon for up to 1175lbs uplift, and 2. use (2) HTSM16 for up to 2350lbs uplift.

2. use (2) HTSM16 for up to 2350lbs (aplift.	
See F1 & M1 for vertical dowel location	ons	
See R1 for roof overhang details		
	0550 interior doors	0580 windows
0520 exterior doors	■ 11 <2868 PH closet>	■ A < 24x20 PW>
■ 01 <3680 entry (S>	## 12 <3068 PH closet>	# A <24×20 PW>
	■ 13 <3068 PH 20 min>	■ A <24x20 PW>
# 02 <3068 1501 OS>	■ 21 <2480 PD>	■ B <32×24 PW>
■ 03 <3080 1501 SF>	## 22 <2480 PH>	■ B < 32x24 PW>
■ 04 <2480 1501 OS>	■ 22 <2480 PH>	■ B < 32x24 PW>
■ 05 < 5480 1501 OS>	■ 23 <2880 PD>	■ B < 32x24 PW>
0530 special doors	■ 23 <2880 PD>	■ B < 32x24 PW>
## S1 < 40x96 barn door>		■ C <32x40 PW>
■ S2 <8'-0"x8'-0" SGD>	■ 23 <2880 PD>	## C <32x40 PW>
■ S2 <8'-0"x8'-0" SGD>	# 24 <2880 PH>	■ D < 32x44 CA> ■ E < 32x56 CA>
■ S3 <12'-0"x8'-0" SGD>	■ 24 <2880 PH>	# E <32x56 CA>
■ S4 < 19'-4"×10'-0" SGD>	# 24 <2880 PH>	■ F < 32x64 CA>
[일 : [] [[[]] [] [] [] [] [] []	■ 24 <2880 PH>	■ G <32x72 CA>
■ S4 <19'-4"x10'-0" SGD>	■ 24 <2880 PH>	■ G <32x72 CA>
■ S5 < glass partition wall>	■ 24 < 2880 PH closet>	■ G < 32x72 CA>
■ S6 <82X36 vault door>	■ 25 < 3080 PH>	■ G < 32x72 CA>
	■ 26 < 5480 PH closet>	■ G < 32×72 CA>
	■ 31 <2468 PD>	■ H <32x78 PW>
	■ 31 <2468 PD>	
	■ 31 <2468 PH closet>	■ J <36x24 PW>
	## 32 <2468 PH>	
	■ 32 <2468 PH>	
	■ 33 <2868 PD>	
	■ 34 <2868 PH>	K < 36x56 PW>
Windows & Doors:	■ 34 <2868 PH closet>	L <36x64 PW>
0580 - Windows	# 34 <2868 PH closet>	L <36x64 PW>
Windows shall be PGT Industries	■ 35 <3068 PD>	■ M <36x84 PW>
Casement CA640 FL245-R16	## 33 S3000 PD2	■ N <44x56 PW>
Fixed PW640 FL243-R28 Fixed PW7620A FL243-R28		■ P <44x72 PW>
Black aluminum frames, EnergyStar r	ated.	
U-Factor (0.4) and SHGC (0.25)		■ P <44x72 PW>
All 2nd & 3rd story windows shall be r	nin. 24" above the floor.	■ R <48x30 PW>
Exterior Doors shall be Plastpro Fiber	ralass FI 17347 on	■ R <48x30 PW>
Composite Kerfed Jambs with Stainle	•	■ R <48x30 PW>
·	•	■ S <48x64 PW>
Garage Doors shall be Clopay 3203 S	Sectional FL5678	■ T <46x46 PW>
Design Pressures allowed per Window	wand Door Size	
-39.6 PSF - less than 20 SQ FT	w and book dize	
-37.0 PSF - greater than 20 and up to		T < 46x46 PW>
-33.4 PSF - greater than 50 and up to		■ T < 46x46 PW>
-30.8 PSF - greater than 100 and up to See Pg. N1 for Window Buck installat		■ U <46x54 PW>
200 i g. ivi ioi vviildovi back ilistallat	ion dotalio.	■ U <46x54 PW>
		# U <46x54 PW>
		■ U <46x54 PW>
		■ U <46x54 PW>

¥ V <60x48 PW>

Insulation:

CMU Walls insulated with Core-Fill 500 foam R-value: 9.1 Frame Walls insulated with Icynene Classic Max foam R-value: 20 Roof Deck insualted with Icynene Classic Max foam R-value: 20

Design Criteria:

This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22.

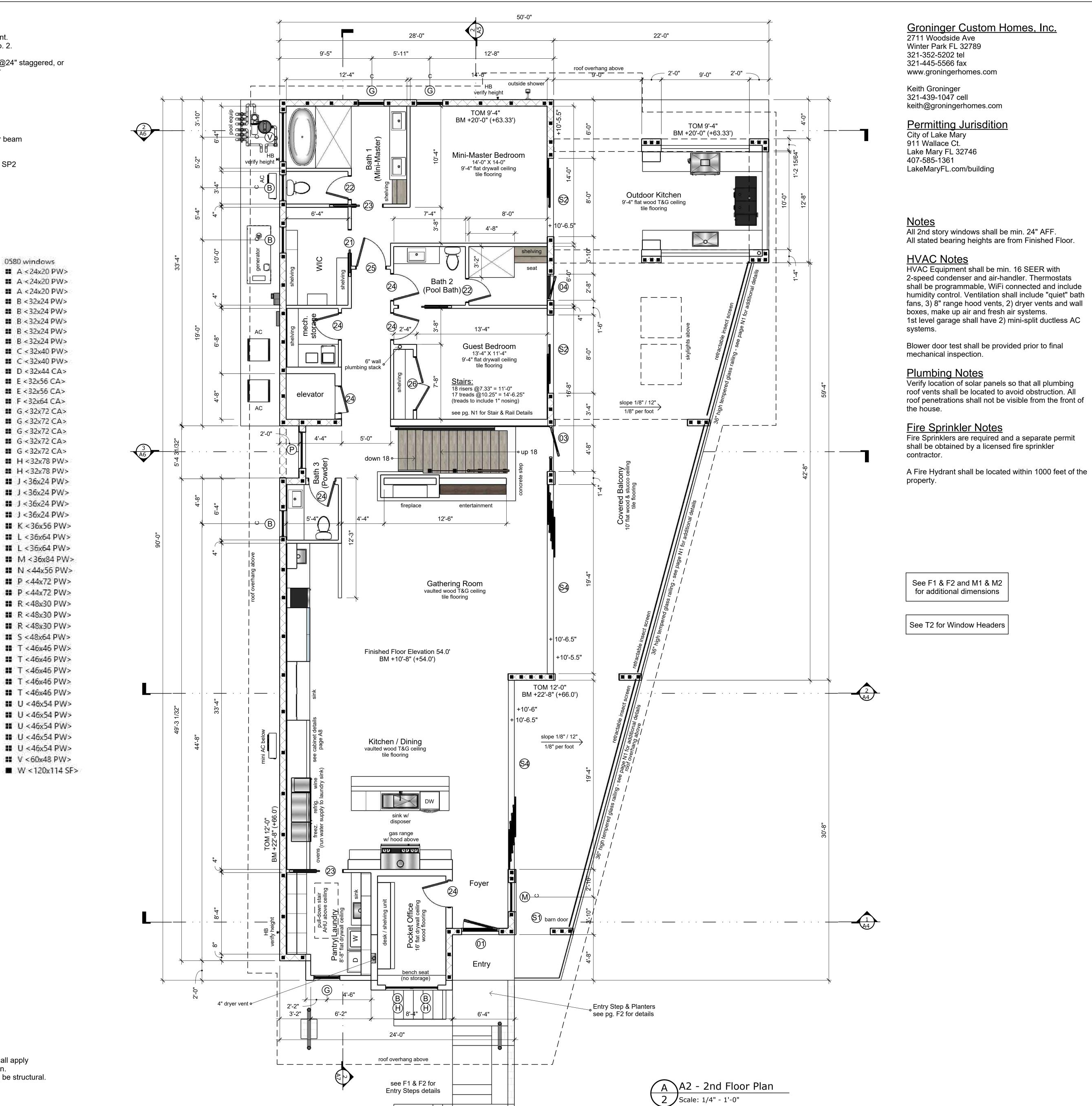
- Risk Category 2
- Construction Type = Single Family Residential (V) Wind Speed = 139 MPH Ultimate Wind Speed (Vult) and 108 MPH (Vasd)
- Wind Exposure = Category C
- Internal Pressure Coefficient for Enclosed Buildings is 0.18 and

Height & Exposure Adjustment Coefficient is 1.40

Design Loads per FRBC 2023 edition Shingle Roof dead load = 17psf

Building is not in an airborne debris area

All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given. Architectural drawings provide reference and information but are not intended to be structural. See structural drawings for engineered components and material requirements.



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Design Avenue 32789

HVAC Equipment shall be min. 16 SEER with 2-speed condenser and air-handler. Thermostats shall be programmable, WiFi connected and include humidity control. Ventilation shall include "quiet" bath fans, 3) 8" range hood vents, 2) dryer vents and wall boxes, make up air and fresh air systems. 1st level garage shall have 2) mini-split ductless AC systems.

Blower door test shall be provided prior to final mechanical inspection.

Plumbing Notes

Verify location of solar panels so that all plumbing roof vents shall be located to avoid obstruction. All roof penetrations shall not be visible from the front of the

Fire Sprinkler Notes

Fire Sprinklers are required and a separate permit shall be obtained by a licensed fire sprinkler contractor.

A Fire Hydrant shall be located within 1000 feet of the property.

3rd Story Notes: All 3rd story walls shall be 2x6 @ 16" O.C.

All exterior headers shall be (3) 2x8's.

SWS - Shear Wall Section

Shearwalls - Attach sill plate to wall below with 1/4" dia. Tapcons at 16" O.C. and with (2) Simpson SDS 25312 at each truss.

(2) Simpson HTS16 or

(2) HTSM16 at end of each wall.

50'-8" 13'-0" - 8" 6'-4" 7'-0" 7'-4" 13'-10" 9'-4" 8'-4" 6'-6" 6'-6" TOW 8'-0" 8'-0" to 12'+6 3/4" BM +29'-8" (73.0') icemaker Juice Bar TOW 8'-8" 13'-10" X 13'-6" BM +30'-4" (73.67') vaulted wood T&G ceiling wood flooring Yoga / Exercise 14'-0" X 11'-4" 2x6 kneewall 34-1/2" tall vaulted wood T&G ceiling wood flooring 3'-4" BM +32'-4" (75.67') 32 BM +21'-8" (+65.0") shelving Master Bedroom 14'-0" X 18'-6" vaulted wood T&G ceiling wood flooring slope 1/8" / 12" WIC 12'-4" 14'-0" shelving <u>Stairs:</u>
18 risers @7.33" = 11'-0"
17 treads @10.25" = 14'-6.25" elevator 6 (treads to include 1" nosing) see pg. N1 for Stair & Rail Details ____ down 18 • 8'-4" to 12'-6 3/4" TOW 8'-4" BM +30'-0" (73.33')° slope 1/8" / 12" 13'-9" 25'-11 7/8" 8'-0" 14'-8"

Windows & Doors: 0580 - Windows Windows shall be PGT Industries

Framing & Lumber:

Unless noted otherwise:

If a lintel strap is missed:

0520 exterior doors

01 < 3680 entry IS>

02 <3068 1501 OS>

■ 03 <3080 1501 SF>

04 < 2480 1501 OS>

05 < 5480 1501 OS>

0530 special doors

■ S1 < 40x96 barn door>

■ S2 <8'-0"x8'-0" SGD>

■ S2 <8'-0"x8'-0" SGD>

S3 < 12"-0"x8"-0" SGD>

■ S4 < 19'-4"x10'-0" SGD>

■ S4 < 19'-4"x10'-0" SGD>

S6 <82X36 vault door>

■ S5 < glass partition wall>

3. use MTS12 for frame to trusses

All lumber shall be Southern Yellow Pine No. 2 with 19% or less moisture content.

Exterior lumber shall be pressure treated. Non-bearing studs may be Spruce No. 2.

3-ply beams shall be bolted together with 1/4"x4.5" SDS @12" on both sides, or

5. under girders and beams, use min. same number of studs as plys of girder or beam

8. all ganged (multple) studs shall have SP4; SP4 may be used in lieu of SP1 & SP2

4-ply beams shall be bolted together with 1/4"x6" SDS @12" on both sides.

1. use HETA16 for CMU to trusses, joists and beams

6. all exterior walls to be treated as bearing walls

7. MTSA36 and HTS20 may be interchanged

9. provide hip roof deck support per APA guide

2. use (2) HTSM16 for up to 2350lbs uplift.

See F1 & M1 for vertical dowel locations

See R1 for roof overhang details

2. use LSTA30 or HTS20 for frame to joists and beams

4. use HUS26 as a 1-ply hanger and HGUS26-2 as 2-ply hanger

1. use HTSM16 w/ (4) 1/4"x2-1/4" Tapcon for up to 1175lbs uplift, and

All 3-ply and 4-ply beams shall be bolted together with 1/2" diameter thru-bolts @24" staggered, or

0550 interior doors

21 <2480 PD>

22 < 2480 PH>

22 <2480 PH>

23 < 2880 PD>

23 <2880 PD>

23 < 2880 PD>

24 < 2880 PH>

24 <2880 PH>

24 < 2880 PH>

24 < 2880 PH>

24 <2880 PH>

25 < 3080 PH>

31 <2468 PD>

31 <2468 PD>

32 < 2468 PH>

32 <2468 PH>

■ 33 < 2868 PD>

34 <2868 PH>

24 < 2880 PH closet>

26 < 5480 PH closet>

31 <2468 PH closet>

■ 34 < 2868 PH closet>

34 < 2868 PH closet>

11 < 2868 PH closet>

12 <3068 PH closet>

13 <3068 PH 20 min>

35 <3068 PD> Casement CA640 FL245-R16 Fixed PW640 FL243-R28 Fixed PW7620A FL243-R28 Black aluminum frames, EnergyStar rated.

U-Factor (0.4) and SHGC (0.25) All 2nd & 3rd story windows shall be min. 24" above the floor.

Garage Doors shall be Clopay 3203 Sectional FL5678

Exterior Doors shall be Plastpro Fiberglass FL17347 on

-39.6 PSF - less than 20 SQ FT -37.0 PSF - greater than 20 and up to 50 SQ FT -33.4 PSF - greater than 50 and up to 100 SQ FT -30.8 PSF - greater than 100 and up to 500 SQ FT See Pg. N1 for Window Buck installation details.

Composite Kerfed Jambs with Stainless Steel Hinges Design Pressures allowed per Window and Door Size

R <48x30 PW> ## S < 48x64 PW> ■ T < 46x46 PW> ■ T < 46x46 PW> ■ T < 46x46 PW> T < 46x46 PW> ■ U <46x54 PW> # U <46x54 PW> ## U <46x54 PW>

■ U <46x54 PW> ■ U <46x54 PW> ■ V <60x48 PW> ■ W <120x114 SF>

0580 windows

■ A < 24x20 PW>

A < 24x20 PW>

■ A <24x20 PW>

B <32x24 PW>

B <32x24 PW>

■ B <32x24 PW>

B <32x24 PW>

B <32x24 PW>

C <32x40 PW>

C <32x40 PW>

■ D < 32x44 CA>

E <32x56 CA>

E <32x56 CA>

F < 32x64 CA>

G <32x72 CA>

G <32x72 CA>

G <32x72 CA>

G <32x72 CA>

■ G < 32x72 CA>

H <32x78 PW>

H <32x78 PW>

■ J <36x24 PW> ## J <36x24 PW>

■ J <36x24 PW>

■ J <36x24 PW>

■ K <36x56 PW>

L <36x64 PW>

L < 36x64 PW>

■ M <36x84 PW>

■ N <44x56 PW>

P <44x72 PW>

P <44x72 PW>

R <48x30 PW>

■ R <48x30 PW>

Insulation:

Frame Walls insulated with Icynene Classic Max foam R-value: 20 Roof Deck insualted with Icynene Classic Max foam R-value: 20

Design Criteria:

This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22.

- Risk Category 2
- Construction Type = Single Family Residential (V) Wind Speed = 139 MPH Ultimate Wind Speed (Vult) and 108 MPH (Vasd)
- Wind Exposure = Category C
- Internal Pressure Coefficient for Enclosed Buildings is 0.18 and Height & Exposure Adjustment Coefficient is 1.40

Design Loads per FRBC 2023 edition Shingle Roof dead load = 17psf

Building is not in an airborne debris area

All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given. Architectural drawings provide reference and information but are not intended to be structural. See structural drawings for engineered components and material requirements.

CMU Walls insulated with Core-Fill 500 foam R-value: 9.1

· ___ · · · · ___ · · · ___ · · · · ___ · · · · ___

/sloped wall

slope 1/8" / 12"

15'-1/0 3/4" to 16'-6 3/4

A A3 - 3rd Floor Plan

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09/22/25

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Groninger Custom Homes, Inc. 2711 Woodside Ave Winter Park FL 32789 321-352-5202 tel 321-445-5566 fax www.groningerhomes.com

Keith Groninger 321-439-1047 cell keith@groningerhomes.com

Permitting Jurisdition
City of Lake Mary
911 Wallace Ct.
Lake Mary FL 32746
407-585-1361
LakeMaryFL.com/building



All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given.

Architectural drawings provide reference and information but are not intended to be structural.

See structural drawings for engineered components and material requirements.

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Keith Groninger 321-439-1047 cell

City of Lake Mary 911 Wallace Ct.

Roof Notes: 0680 - Roofing

FBC FL33818-R2

407-585-1361

Lake Mary FL 32746

LakeMaryFL.com/building

Standing Seam Metal Roof (no roof vents)
GulfLok Eval Non-HVHZ

GAF EverGuard TPO Roof System FBC FL5293.2 R65

32" overhang typical (see R1 for details)
1X6 Cypress T&G soffits (no venting)

All Roof Penetrations shall not be visible

Foam Insulation (sealed attic)

5/8" plywood "Zip" roof deck

from the front of the house.

Elevation Notes:

0640 - Exterior Wall Finish 7/8" Stucco Sand Finish on wood framing with

galvanized lath on 15# felt

(typical detail at 2nd floor)

on CMU walls

0580 - Windows

over housewrap on 7/16" OSB

See N1 for ASTM requirements.

5/8" Textured Masonry Finish

Windows and Doors:

Fixed PW640 FL243-R28 Fixed PW7620A FL243-R28

Windows shall be PGT Industries Casement CA640 FL245-R16

U-Factor (0.4) and SHGC (0.25)

Black aluminum frames, EnergyStar rated.

All 2nd & 3rd story windows shall be min. 24" above the floor.

Exterior Doors shall be Plastpro Fiberglass FL17347 on Composite Kerfed Jambs with Stainless Steel Hinges

Garage Doors shall be Clopay 3203 Sectional FL5678

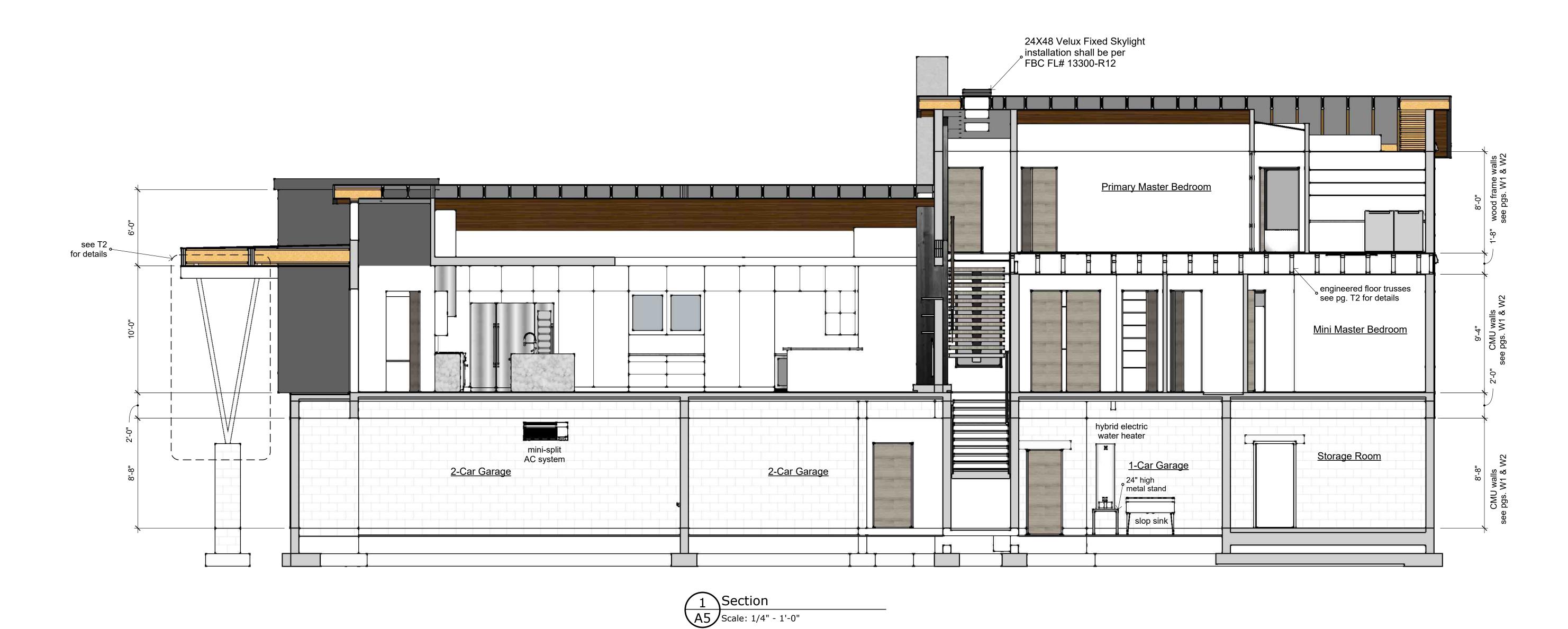
Design Pressures allowed per Window and Door Size -39.6 PSF - less than 20 SQ FT

-37.0 PSF - greater than 20 and up to 50 SQ FT -33.4 PSF - greater than 50 and up to 100 SQ FT -30.8 PSF - greater than 100 and up to 500 SQ FT See Pg. N1 for Window Buck installation details.

See Overhang Details pg. R1.

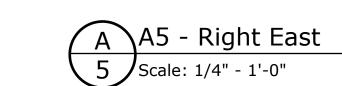
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louvered shuters retractable insect screens retractable insect screens retractable insect screens 36" high glass railing see N1 for details 36" high glass railing see N1 for details 36" high glass railing see N1 for details handrails not required all level changes less than 30" tile inlay see pg. F2 for entry stairs details 18X8 insulated garage door 12X8 insulated garage door 18X8 insulated garage door Tremron stacked landscape blocks hose bib

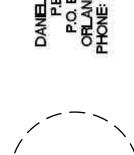
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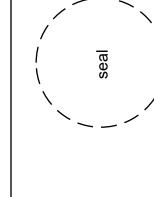








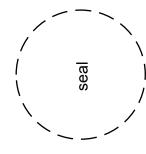




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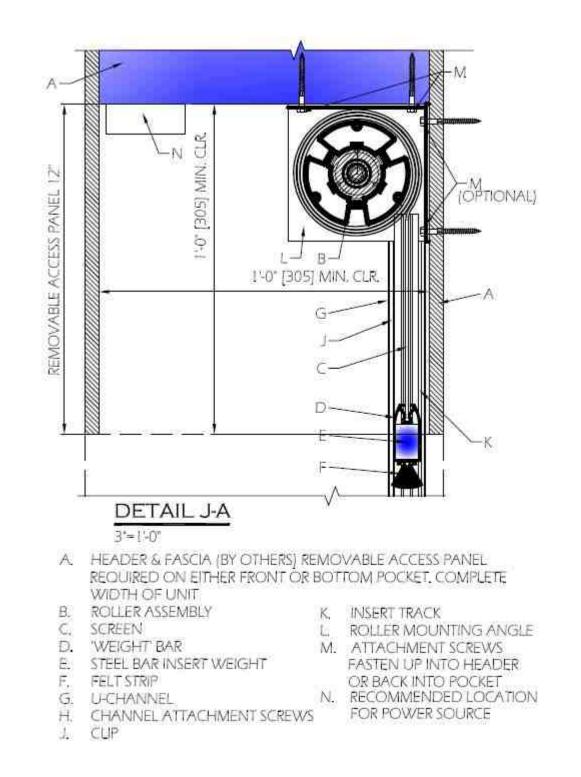




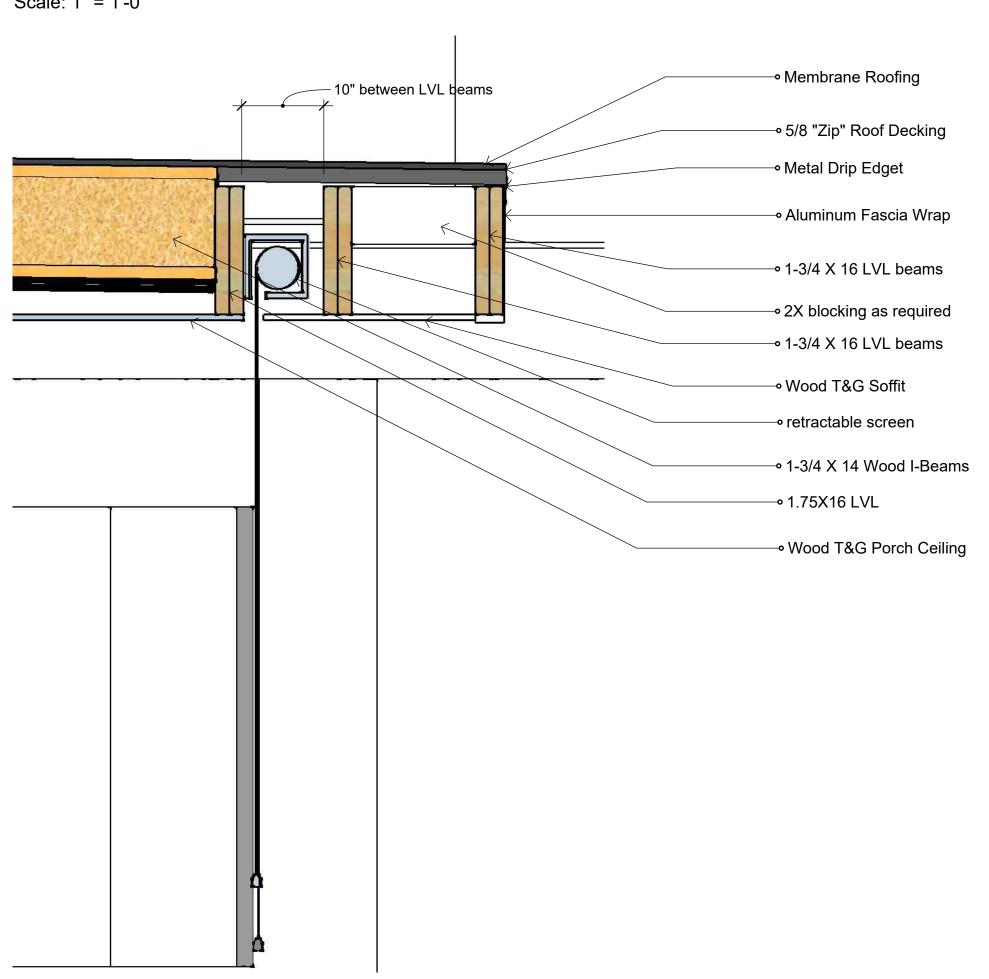
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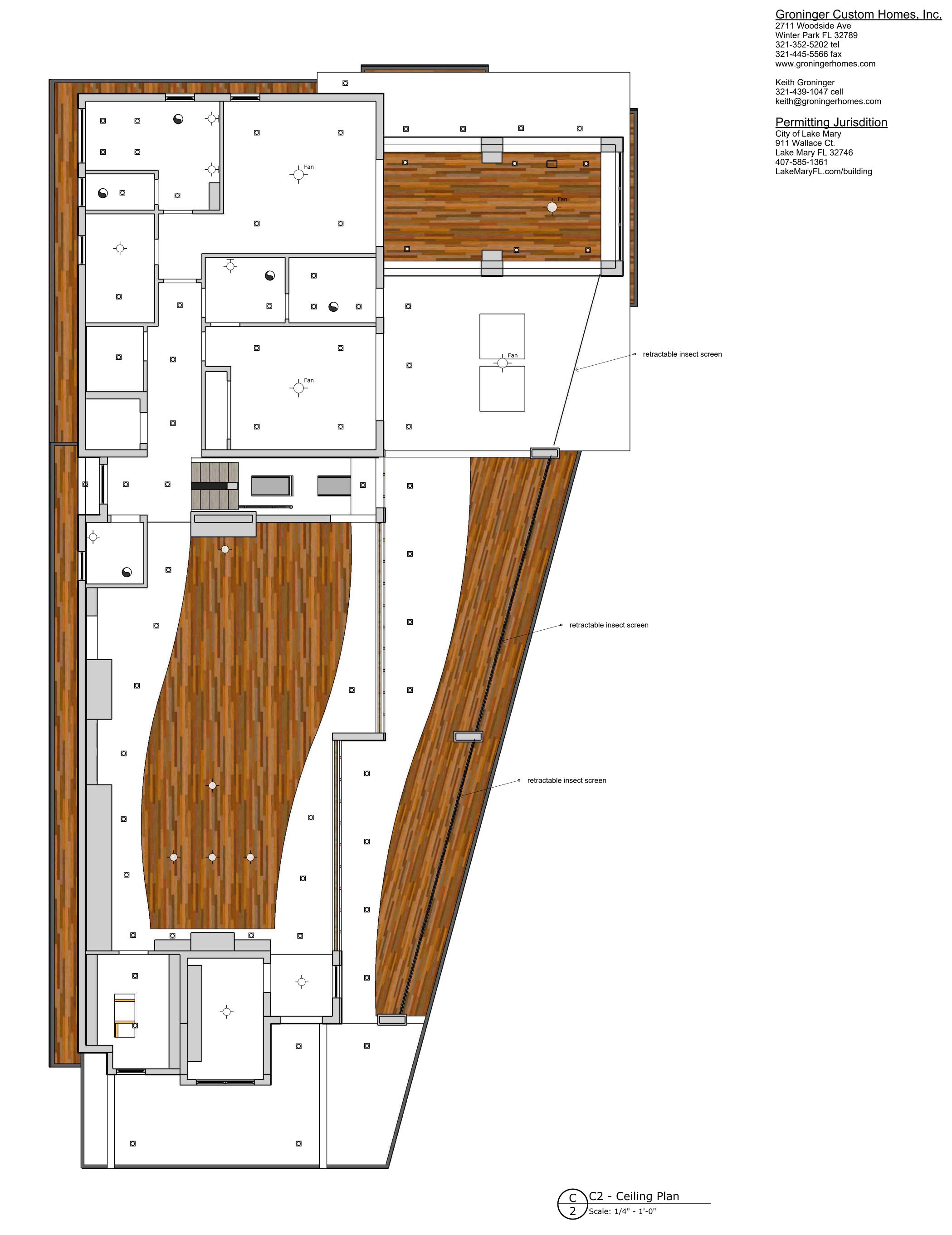
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Retractable Screens Detail Scale: 1" = 1'-0"





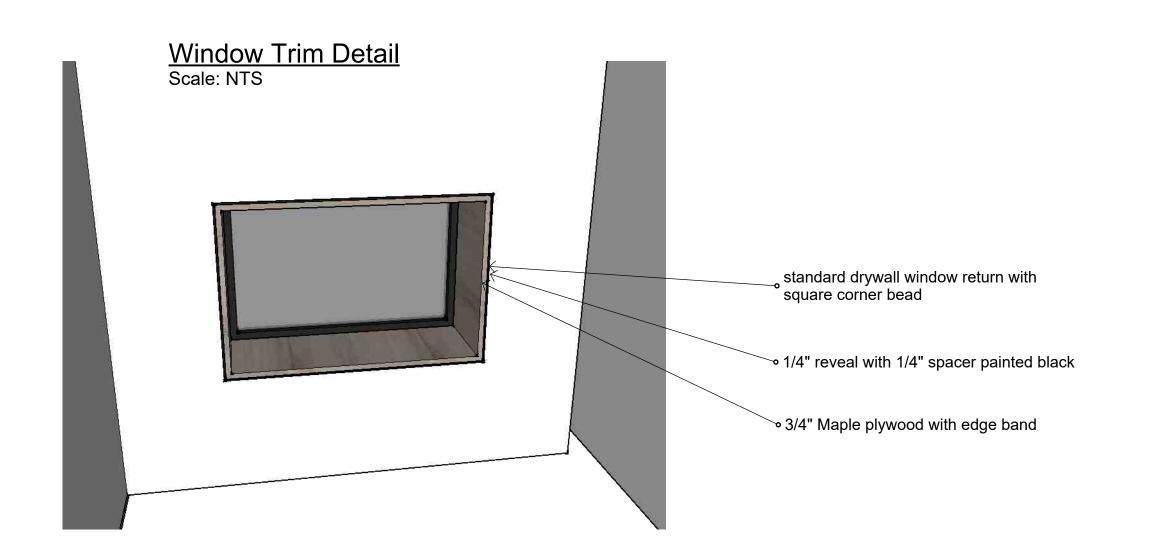
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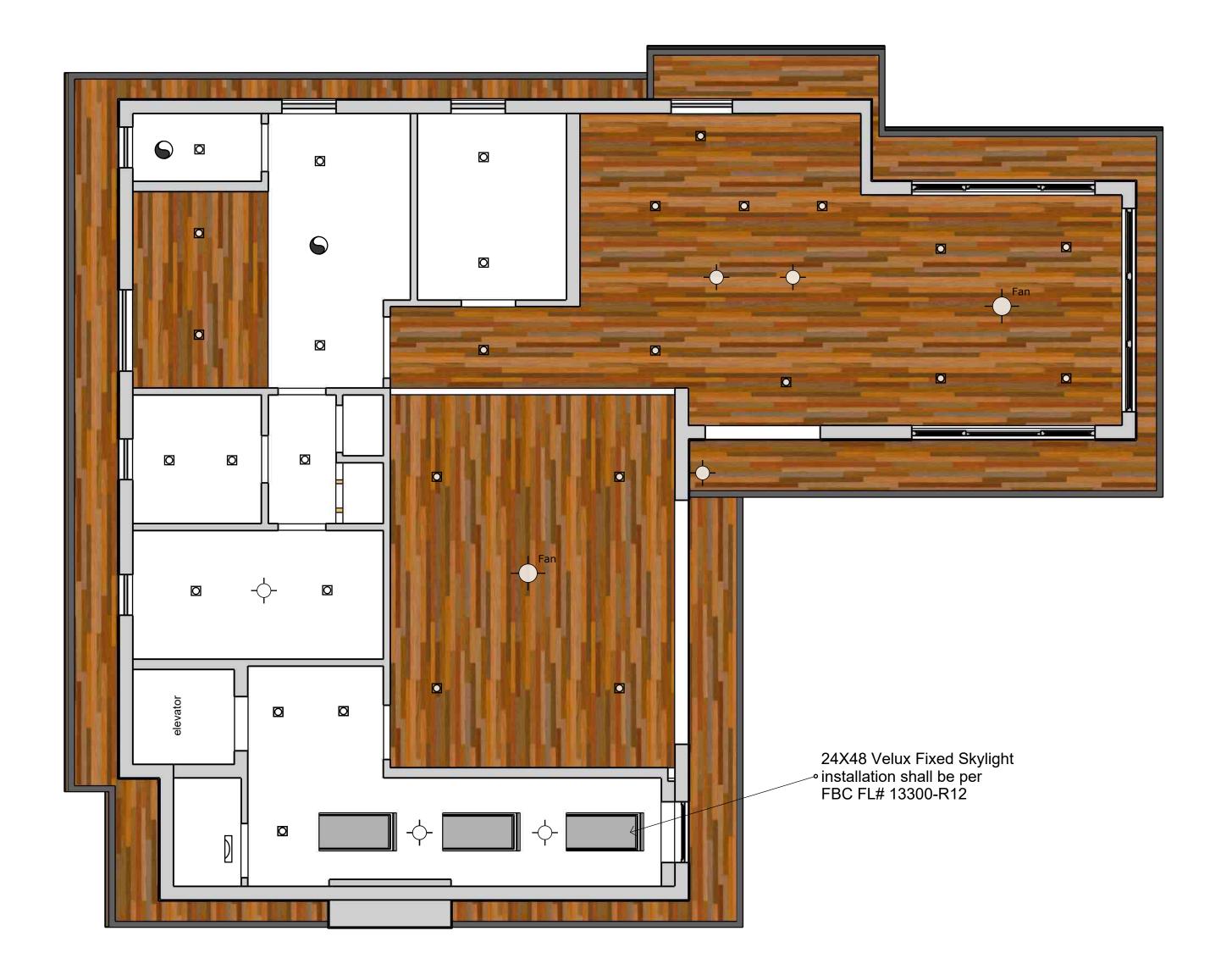
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Trim Details
Scale: NTS



Smoke detectors required in each bedroom.
Smoke and CO detectors required within 10ft. outside all bedroom doors.

1. All bedroom outlets shall be arc fault interrupters

2. All kitchen, bathroom and laundry outlets shall be GFI

All garage and outdoor outlets shall be GFI
 All outdoor outlets shall be weatherproof

Electrical contractor shall provide and install: all 110V outlets per code

power to low voltage panel and security system wiring for garage door opener(s) and doorbell(s) power to irrigation time clock and wiring for rain sensor

all appliances and equipment as shown

All listed fixture heights shall be measured from finished floor. TV & telephone wiring by others.

Notes and Equipment:

All 1st Level Electrical Devices shall be min. 24" above the floor.

01) 220v Car Charger outlet02) Mini-Split Heat Pump AC (2 locations)

03) Hybrid Electric Water Heater 04) Car Lift

05) Elevator Equipment

06) 26KW Generator 07) Dehumidifier

08) duplex outlet inside cabinet 09) LED lighting under cabinet

10) 110V power for septic system air pump
11) 110V stub for landscape lighting 2) locations

12) motorized shade trellis 13) retractable screens

14) 2 infrared heaters - verify requirements

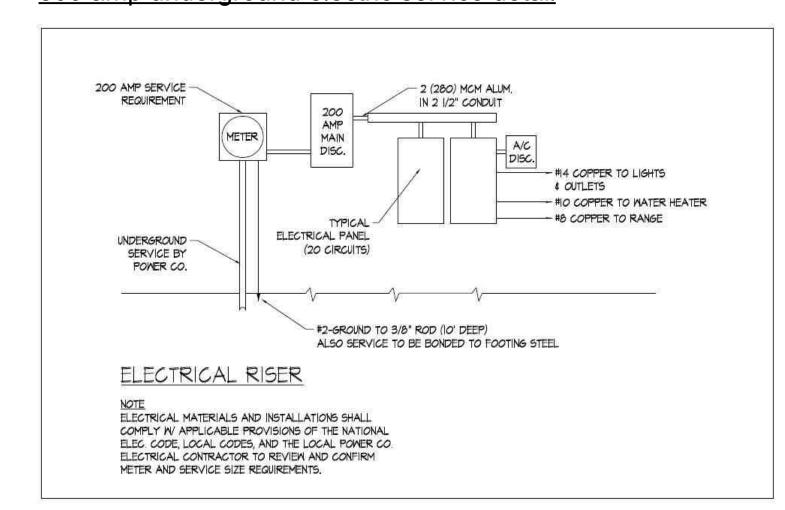
Closet lights shall have door jamb switch 5) locations

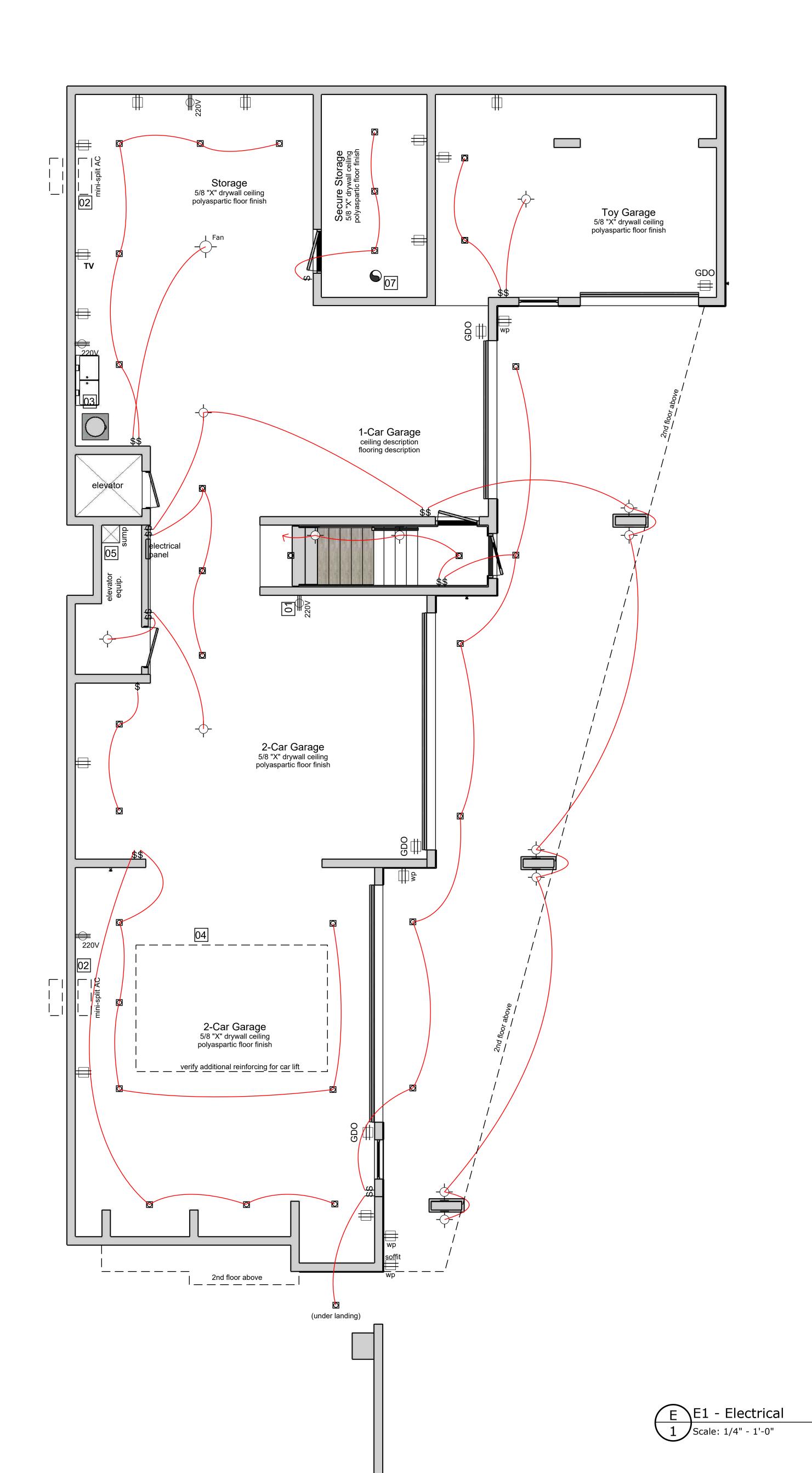
Electric Legend:

Electric Legend may not be accurate. Electrical contractor shall verify all quantities to meet code and complete electrical work per devices indicated on drawings.

\Rightarrow	duplex outlet	\Diamond	ceiling light
	220v outlet	Fan	ceiling fan
	GFI outlet	φ	wall light
\bigoplus	floor outlet		recessed light
•	smoke detector	•	custom trim
10	disconnect	<u></u> –	under-cabinet
6	exhaust fan		closet light
	keypad	•	controlled switch
	timer	•	controlled dimmer

300 amp underground electric service detail





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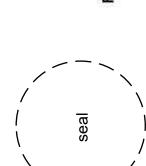
Equipment in the garage? 220V outlets? Ventilation in safe room?

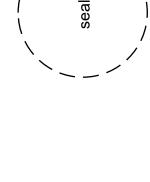
HVAC Equipment shall be min. 16 SEER with 2-speed condenser and air-handler. Thermostats shall be programmable, WiFi connected and include humidity control. Ventilation shall include "quiet" bath fans, 3) 8" range hood vents, 2) dryer vents and wall boxes, make up air and fresh air systems. 1st level garage shall have 2) mini-split ductless AC

Blower door test shall be provided prior to final mechanical inspection.











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Date 09/22/25

Page 11 of 26

Smoke detectors required in each bedroom.
Smoke and CO detectors required within 10ft. outside all bedroom doors.

1. All bedroom outlets shall be arc fault interrupters

2. All kitchen, bathroom and laundry outlets shall be GFI

All garage and outdoor outlets shall be GFI
 All outdoor outlets shall be weatherproof

Electrical contractor shall provide and install: all 110V outlets per code

power to low voltage panel and security system wiring for garage door opener(s) and doorbell(s) power to irrigation time clock and wiring for rain sensor

all appliances and equipment as shown

All listed fixture heights shall be measured from finished floor. TV & telephone wiring by others.

Notes and Equipment:

All 1st Level Electrical Devices shall be min. 24" above the floor.

01) 220v Car Charger outlet

02) Mini-Split Heat Pump AC (2 locations) 03) Hybrid Electric Water Heater

04) Car Lift

05) Elevator Equipment

06) 26KW Generator 07) Dehumidifier

08) duplex outlet inside cabinet

09) LED lighting under cabinet

10) 110V power for septic system air pump
11) 110V stub for landscape lighting 2) locations

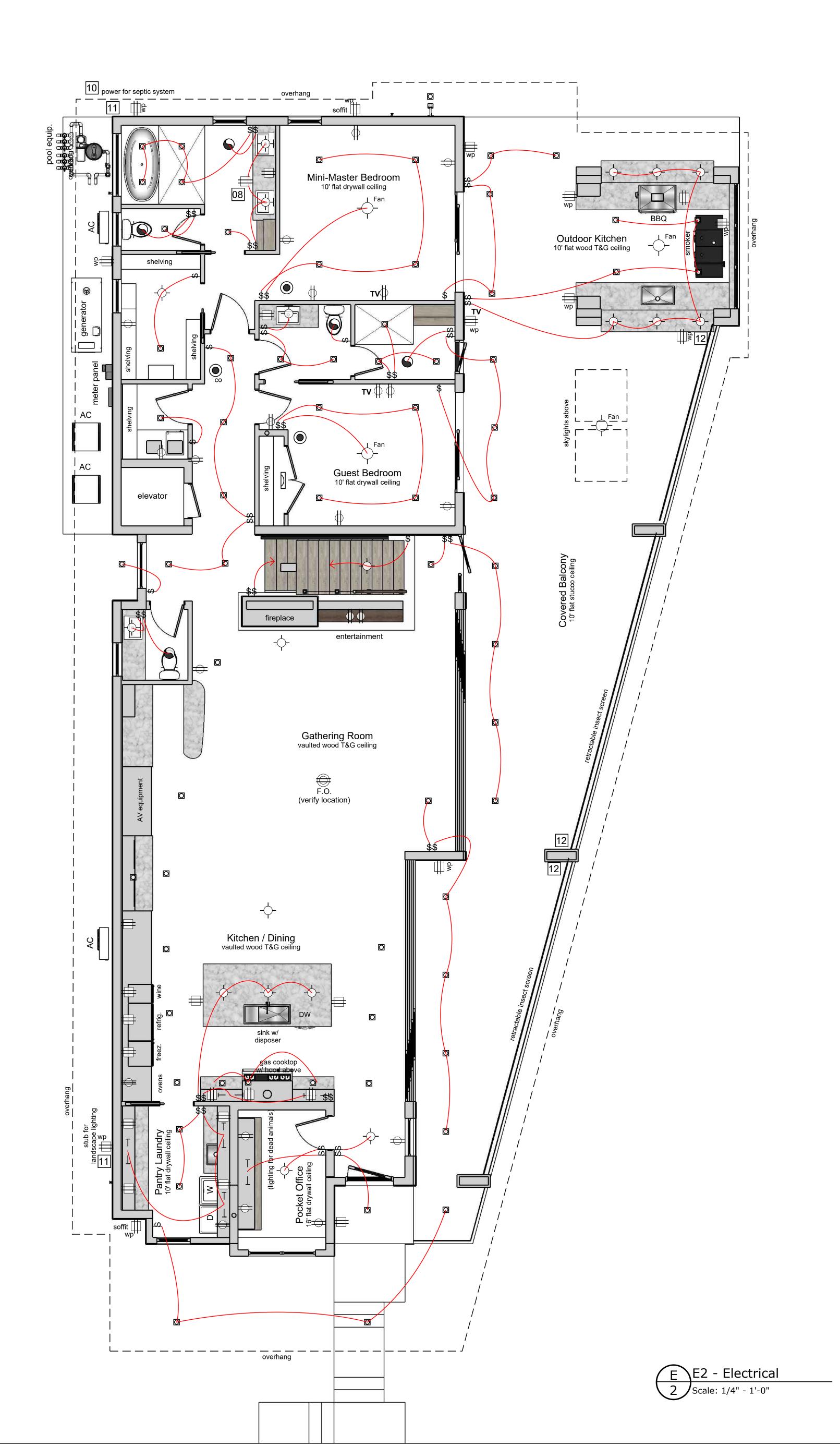
Closet lights shall have door jamb switch 5) locations

12) retractable screens 13) 2 infrared heaters - verify requirements

Electric Legend:

Electric Legend may not be accurate. Electrical contractor shall verify all quantities to meet code and complete electrical work per devices indicated on drawings.

\bigoplus	duplex outlet	\Diamond	ceiling light
#	220v outlet	Fan	ceiling fan
#	GFI outlet	\diamondsuit	wall light
	floor outlet		recessed light
	smoke detector		custom trim
	disconnect	⊢ · ⊣	under-cabinet
	exhaust fan		closet light
	keypad		controlled switch
•	timer		controlled dimmer



Groninger Custom Homes, Inc.

2711 Woodside Ave Winter Park FL 32789 321-352-5202 tel 321-445-5566 fax

www.groningerhomes.com Keith Groninger 321-439-1047 cell

keith@groningerhomes.com

Permitting Jurisdition

City of Lake Mary 911 Wallace Ct. Lake Mary FL 32746 407-585-1361 LakeMaryFL.com/building

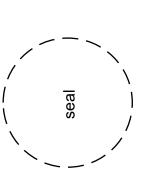
AV equipment rack with ventilation.

HVAC Equipment shall be min. 16 SEER with 2-speed condenser and air-handler. Thermostats shall be programmable, WiFi connected and include humidity control. Ventilation shall include "quiet" bath fans, 3) 8" range hood vents, 2) dryer vents and wall boxes, make up air and fresh air systems. 1st level garage shall have 2) mini-split ductless AC

Blower door test shall be provided prior to final mechanical inspection.











groninger Design Build Con

Page 12 of 26

Smoke detectors required in each bedroom.

Smoke and CO detectors required within 10ft. outside all bedroom doors.

1. All bedroom outlets shall be arc fault interrupters 2. All kitchen, bathroom and laundry outlets shall be GFI

All garage and outdoor outlets shall be GFI
 All outdoor outlets shall be weatherproof

Electrical contractor shall provide and install: all 110V outlets per code power to low voltage panel and security system wiring for garage door opener(s) and doorbell(s) power to irrigation time clock and wiring for rain sensor

all appliances and equipment as shown

All listed fixture heights shall be measured from finished floor. TV & telephone wiring by others.

Notes and Equipment: All 1st Level Electrical Devices shall be min. 24" above the floor.

01) 220v Car Charger outlet02) Mini-Split Heat Pump AC (2 locations) 03) Hybrid Electric Water Heater 04) Car Lift 05) Elevator Equipment 06) 26KW Generator 07) Dehumidifier 08) duplex outlet inside cabinet 09) LED lighting under cabinet 10) 110V power for septic system air pump
11) 110V stub for landscape lighting 2) locations 12) motorized shade trellis 13) retractable screens

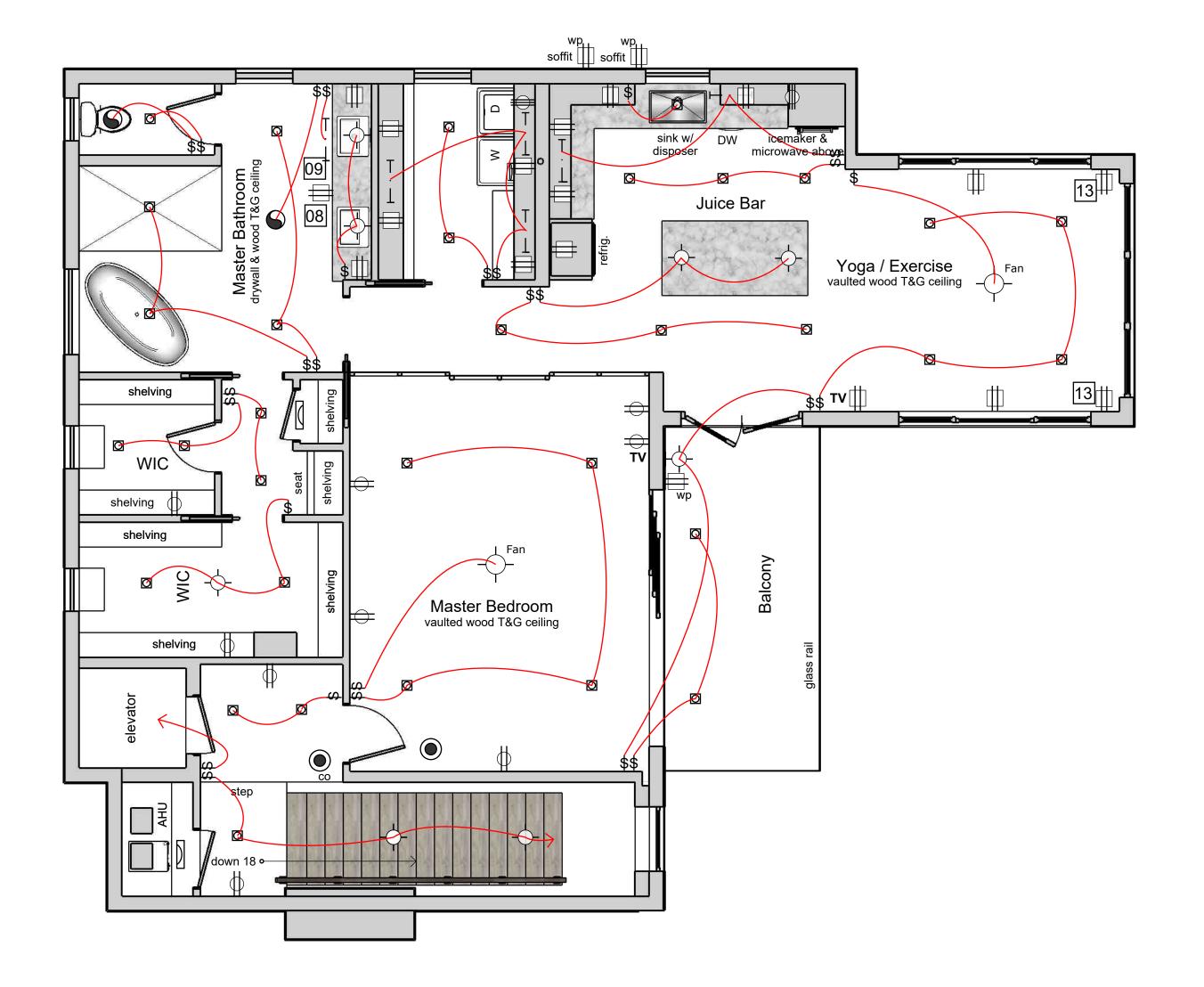
Closet lights shall have door jamb switch 5) locations

14) 2 infrared heaters - verify requirements

Electric Legend:

Electric Legend may not be accurate. Electrical contractor shall verify all quantities to meet code and complete electrical work per devices indicated on drawings.

\bigoplus	duplex outlet	\Diamond	ceiling light
	220v outlet	Fan	ceiling fan
\blacksquare	GFI outlet	\Rightarrow	wall light
	floor outlet	O	recessed light
•	smoke detector		custom trim
→ □	disconnect	⊢ · ⊣	under-cabinet
	exhaust fan		closet light
	keypad		controlled switch
	timer		controlled dimmer



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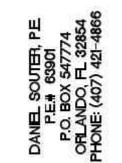
City of Lake Mary 911 Wallace Ct. Lake Mary FL 32746 407-585-1361 LakeMaryFL.com/building

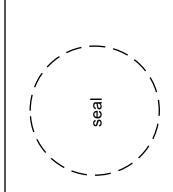
HVAC Notes

HVAC Equipment shall be min. 16 SEER with 2-speed condenser and air-handler. Thermostats shall be programmable, WiFi connected and include humidity control. Ventilation shall include "quiet" bath fans, 3) 8" range hood vents, 2) dryer vents and wall boxes, make up air and fresh air systems. 1st level garage shall have 2) mini-split ductless AC

Blower door test shall be provided prior to final mechanical inspection.



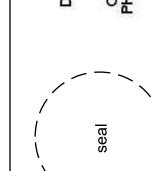














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> Date 09/22/25

Page 14 of 26 Footings have been designed for soil bearing capacity of 2000 PSF.

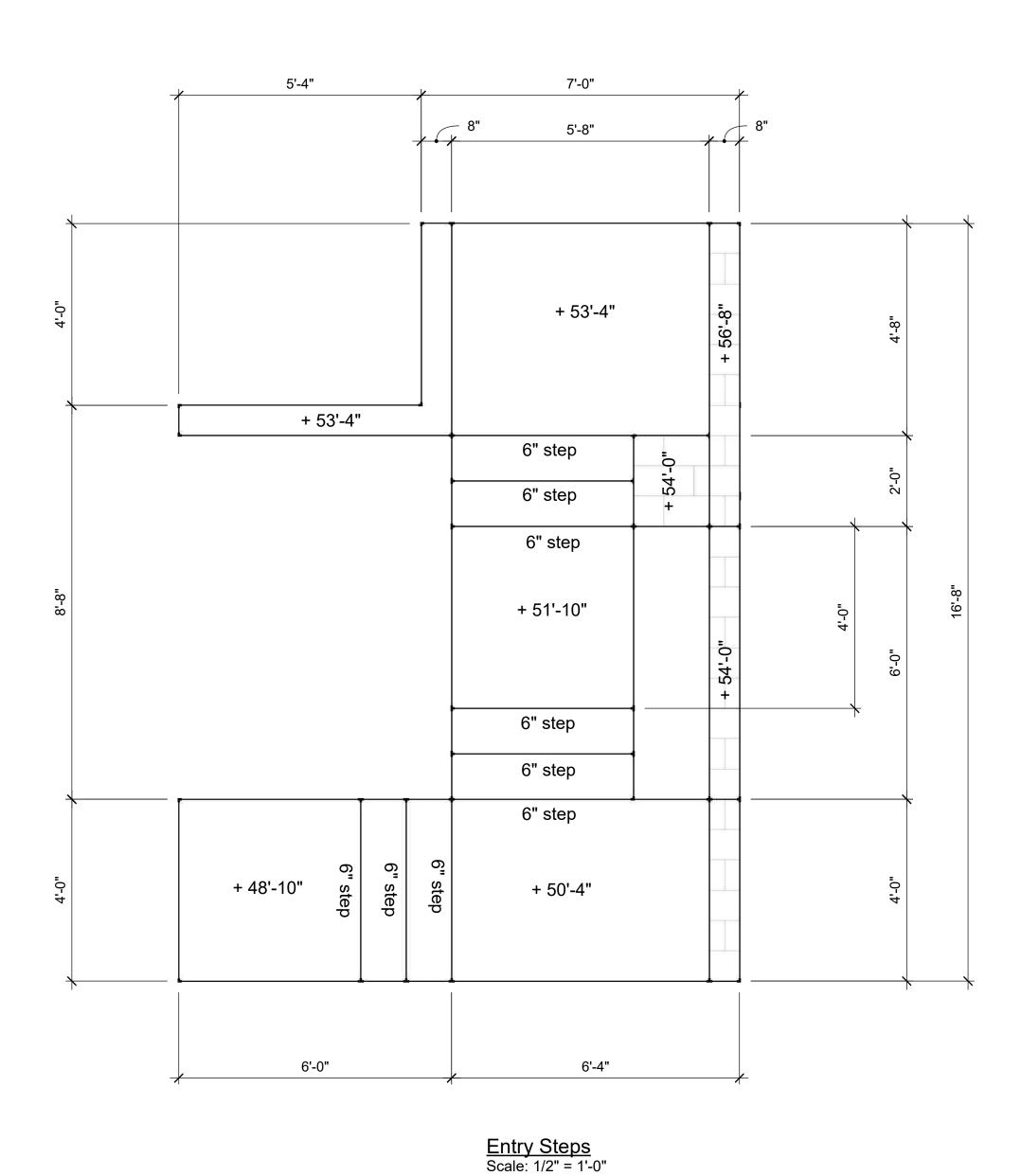
Footings shall bear on soil compacted to a density of at least 95% of standard Proctor maximum density test. Fill dirt under slab shall be compacted to at least 95% of standard Proctor.

Concrete shall be 2500 PSI unconfined compressive strength at 28 days. Reinforcing steel (rebar) shall conform to ASTM 615 grade 40. Continuous vertical and horizontal rebar in footins, beams and other concrete shall be spliced by wiring together with minimum 25" overlap.

If stemwall exceeds 32", install 1)#5 rebar vertical @4' o.c. max. and fill all cells with grout. If stemwall exceeds 48", install 1)#5 rebar vertical @4' o.c. max. and, 1)#5 rebar horizontal @2' o.c. max. in U-block and fill all cells with grout.

If dowel is missed, drill 3/4" hole and install #5 rebar using epoxy (Simpson #ET) w/ 6"embedment.

See A1 and F1 for window schedule. See S3 for window and door opening dimensions.



Design Criteria:

This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22.

1. Risk Category 2

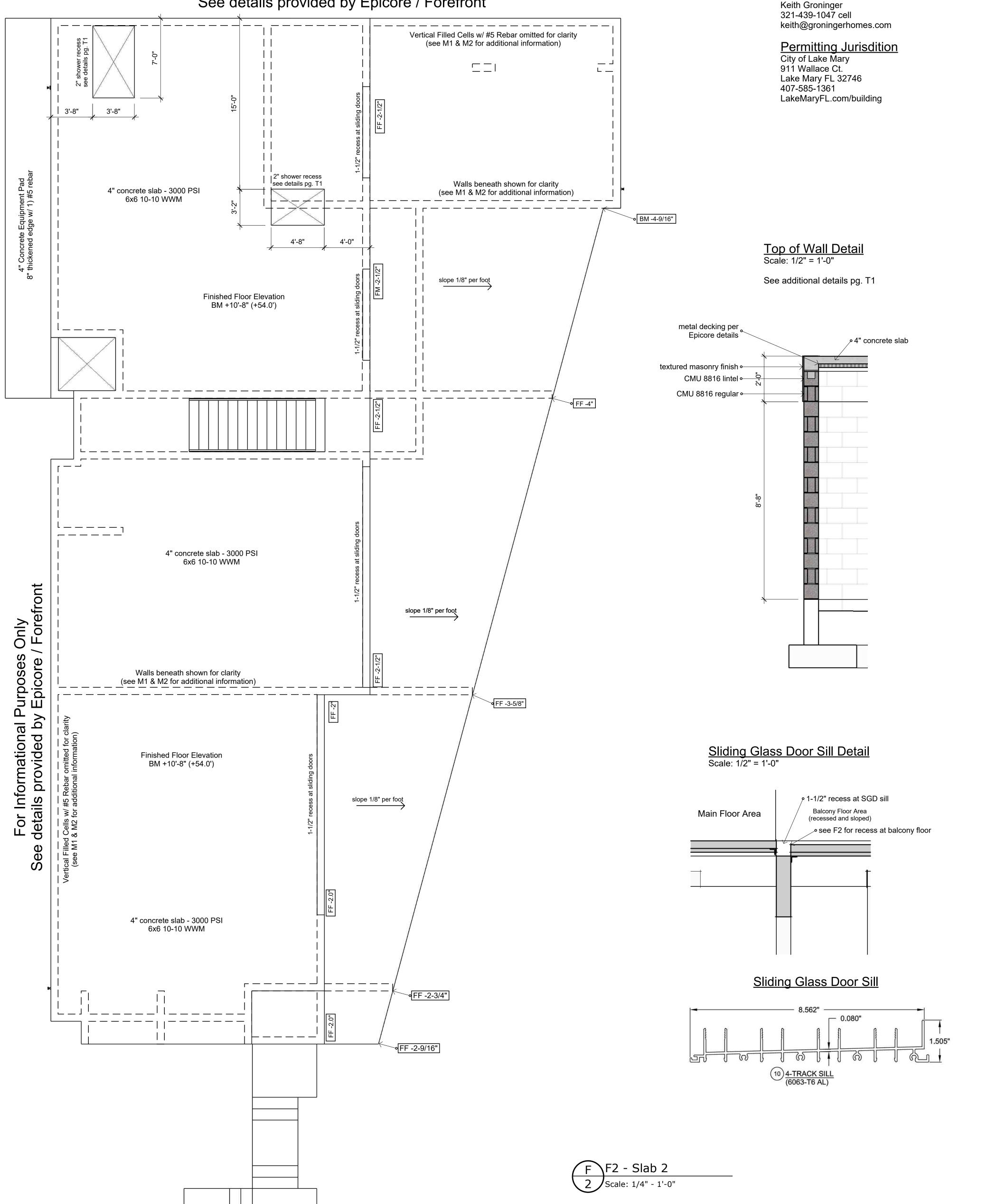
Construction Type = Single Family Residential (V)
Wind Speed = 139 MPH Ultimate Wind Speed (Vult) and 108 MPH (Vasd)

Wind Exposure = Category C
Internal Pressure Coefficient for Enclosed Buildings is 0.18 and
Height & Exposure Adjustment Coefficient is 1.40

Design Loads per FRBC 2023 edition Shingle Roof dead load = 17psf Building is not in an airborne debris area

All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given. Architectural drawings provide reference and information but are not intended to be structural. See structural drawings for engineered components and material requirements.

For Informational Purposes Only See details provided by Epicore / Forefront



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Date 09/22/25

Page

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Groninger Custom Homes, Inc. 50'-0" 2711 Woodside Ave Winter Park FL 32789 321-352-5202 tel 28'-0" 22'-0" 321-445-5566 fax www.groningerhomes.com TOM 10'-0" Keith Groninger Foundation and Slab BM +10'-0" (53.33') 321-439-1047 cell Footings have been designed for soil bearing capacity of 2000 PSF. keith@groningerhomes.com Footings shall bear on soil compacted to a density of at least 95% of standard Proctor maximum density test. Permitting Jurisdition Fill dirt under slab shall be compacted to at least 95% of standard Proctor. City of Lake Mary 911 Wallace Ct. Concrete shall be 2500 PSI unconfined compressive strength at 28 days. Lake Mary FL 32746 Reinforcing steel (rebar) shall conform to ASTM 615 grade 40. 9'-0" 407-585-1361 Continuous vertical and horizontal rebar in footins, beams and other concrete shall be LakeMaryFL.com/building 2'-0" spliced by wiring together with minimum 25" overlap. If stemwall exceeds 32", install 1)#5 rebar vertical @4' o.c. max. and fill all cells with grout. If stemwall exceeds 48", install 1)#5 rebar vertical @4' o.c. max. and, 1)#5 rebar horizontal @2' o.c. max. in U-block and fill all cells with grout. If dowel is missed, drill 3/4" hole and install #5 rebar using epoxy (Simpson #ET) w/ 6"embedment. <u>Notes</u> See A1 and F1 for window schedule. See S3 for window and door opening dimensions. See pg. A1 for 5'-4" Header @7'-4" 4'-4" Header @7'-4" 10'-4" Header @7'-4" window and door sizes TOM 10'-0" LAP TOP REINF. WITH 8'-4" 18'-0" 6'-4" FAR VERTICAL REINF. PROVIDE 12" ACI HOOK <u>TC1</u> TC1 Column ➣ Face Mount Imbed verify mounting height CONCRETE BEAM HORIZ. #3 TIES BARS - SEE DETAILS LAP BOND BEAM REINF, INTO -FOR SIZE AND SPACING CONCRETE BEAM 30" MIN. OR AND STIRRUPS HOOK INTO COLUMN COLUMN TIE COLUMN 13'-4" 9 TOM 10'-0" - LAP BOTTOM REINF. ر TC1 Column و WITH NEAR VERTICAL Beam Pocket REINF., PROVIDE 12" verify bearing height ACI HOOK 10'-4" Header @8'-8" TOM 10'-0" CONNECT TIE COLUMN -STIRRUP SPACING TO TO ADJACENT FILLED 9'-4" Header @7'-4" FIRST STIRRUP, 3" TIE #3 STIRRUPS -CMU CELL WITH (4) SPACING TO FIRST TIE @ 10"O.C. MAY (2) #5 HORIZ **EVENLY SPACED** OMIT IN CENTRAL 4'-8" Hdr @6'-11 off floor REINFORCING #5x16" THIRD OF SPAN TIE COLUMN HOOKED OR EPOXIED VERT. BARS INTO ADJACENT CELL. EVENLY SPACED SEE DETAILS FOR SIZE AND SPACING AND 13'-4" Header @8'-8" VERTICAL REINFORCED AND FILLED CELL ADJACENT TO COLUMN → TC1 Column CONCRETE BEAM CONCRETE BEAM/COLUMN REINFORCING DETAIL 13'-4" 9'-0" 12'-8" 4'-8" 6'-0" DETAIL 'F' DETAIL 'D' All heights listed are from PRECAST LINTEL (8"XI2" COMPOSITE) PRECAST LINTEL (8"XI6" COMPOSITE) BM 0'-0" Finished Floor top of foundation stemwall SAFE GRAVITY LOADS (PLF) INTEL PROPERTIES 🤊 ТОМ 10'-0 Top Bearing Detail STEEL BEAM, SEE PLAN TOM 10'-0" Beam Pocket verify bearing height 14'-8" Header @8'-8" 8'-0" Header @8'-8" 13'-0" 1/4" 8" PL TO BEAM 6'-0" 18'-0" 6'-8" CONC. COLUMN ---NOTE: (P.S.) REPRESENT PRECAST LINTELS PRESTRESSED USING (2) 7/16 DIAMETER PRESTRESSING STRANDS. NOTE: (P.S.) REPRESENT PRECAST LINTELS PRESTRESSED USING (2) 7/16" DIAMETER PRESTRESSING STRANDS. TC1 Column Face Mounting Detail Epicore details 3" MAX MIN. 2*BOLT DIAM. PL 1/2×10"×1'-4" W/textured masonry finish ⊶ (4) 1/2" DIA x 5" HEADED STUDS. A325-N BOLTS 8X8 CONCRETE TOP OF BOND BEAM CMU 8816 lintel • - - -LINTEL WITH 1-#5 CONTINUOUS -CMU 8816 regular ⊶ - I- #5 VERTICAL WITH 25" LAP & STANDARD HOOK → TC1 Concrete Column - 2- 8X8 CONCRETE SHEAR PL TO FILLED BLOCK CEL WITH I- #5 VERTICAL ли № ТОМ 10'-0" TC1 Concrete Column 6'-8" 7'-8" UNIT (8X8XI6) WITH SHEAR PL 8" W/ SHORT SLOTTED HOLES SEE SCHEDUL ABOVE 11'-4" Header @8'-8" → Beam Pocket HORIZONTAL JOINT REINFORCING AT 16" verify bearing height 3/4"
A325N SHEAR PL BOLTS LENGTH(L) BEAM SIZES **Design Criteria:** TOM 10'-8" W12, W14, W16 This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22. 12" B1W 1. Risk Category 2 Construction Type = Single Family Residential (V)
Wind Speed = 139 MPH Ultimate Wind Speed (Vult) and 108 MPH (Vasd) Wind Exposure = Category C
Internal Pressure Coefficient for Enclosed Buildings is 0.18 and
Height & Exposure Adjustment Coefficient is 1.40 18" W24 17'-0" 3'-8" 2'-4" 7'-0" 24'-0" 26'-0" Design Loads per FRBC 2023 edition Shingle Roof dead load = 17psf Building is not in an airborne debris area M M1 - Masonry & Lintel 1 Scale: 1/4" - 1'-0"

All details and sections shown on the drawings are intended to be typical and shall apply

Architectural drawings provide reference and information but are not intended to be structural.

to any similar situation shown elsewhere except where specific reference is given.

See structural drawings for engineered components and material requirements.

Footings have been designed for soil bearing capacity of 2000 PSF.

Footings shall bear on soil compacted to a density of at least 95% of standard Proctor maximum density test. Fill dirt under slab shall be compacted to at least 95% of standard Proctor.

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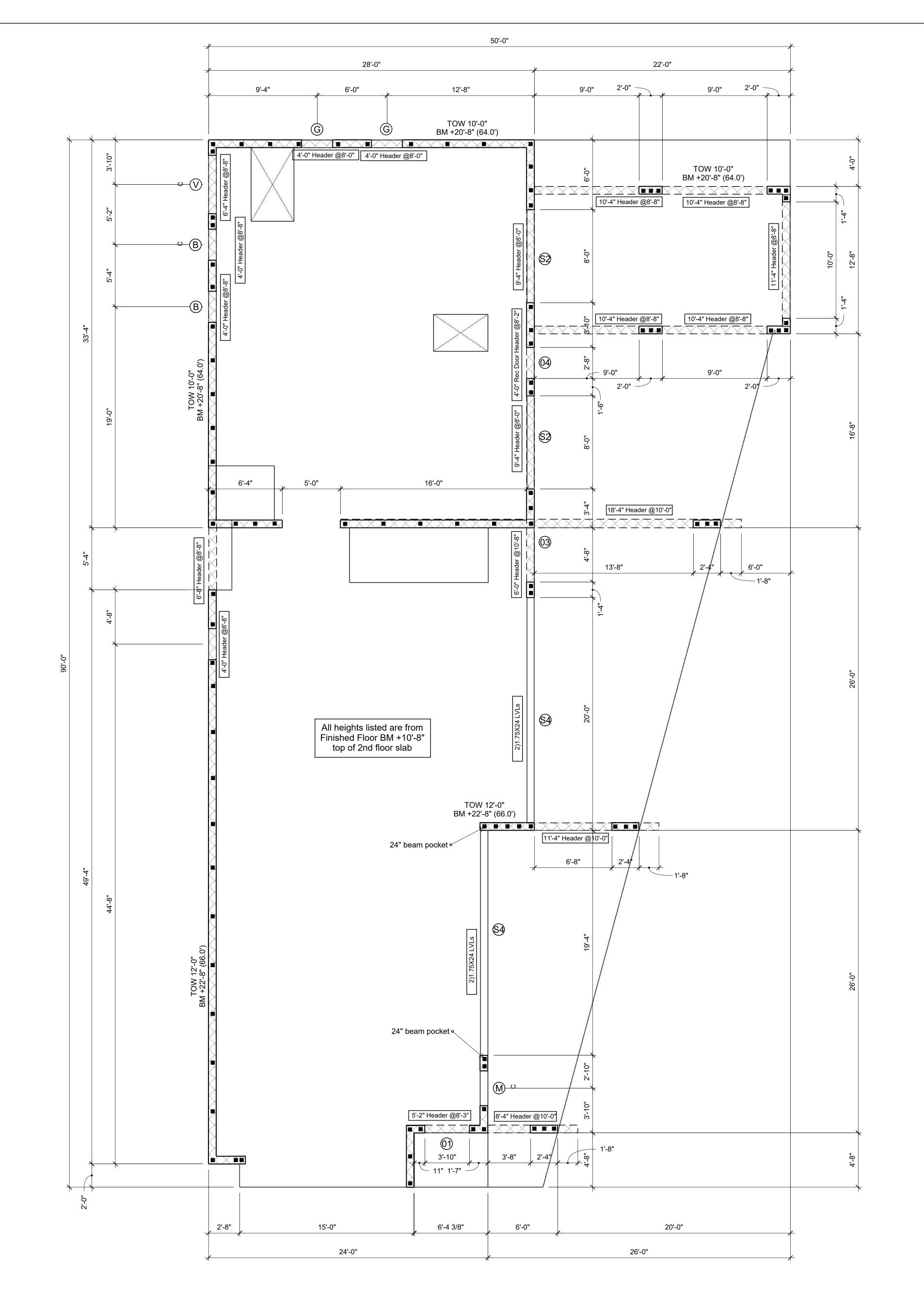
See A1 and F1 for window schedule. See S3 for window and door opening dimensions.

Busili	OI FIL		MID C	OMPOSI	14/		- 1
LINTEL PROPERTIES			SAFE GRAVITY LOADS (PLF)		SAFE I	JPLIFT (PLF)	
MARK NO.	TOTAL LINTEL SIZE	NOMINAL CLEAR SPAN	SOLID (I) #5U DETAIL C	50LID (I)#5U # L DETAIL D	SOLID (I)#SU *(Ø)#5L DETAIL C	SOLID (I)#5U 4 L DETAIL D	
1-4	2'-10"	1'-6"	6794	10000	10000	10000	-
L-2	3'-6"	2'-2"	7902	10000	8237	8237	
L-3	4'-0"	2'-8"	5692	10000	5124	5124	-
L-4	4'-6"	3'-2"	4288	10000	3709	3709	
L-5	5'-4"	A'-0"	3219	6297	426	4261	
L-G	5'-10"	4'-6"	3780	5037	2121	2121	
1-7	6'-6'	5-2	3609	3848	2704	2704	
L-8	7'-6"	6'-2"	2994	2878	1953	1953	
L-9	8'-4" 9'-4"	7'-0"	24%	2384	1157	1157	
L-10 L-11	10'-6"	8'-0"	1994	1959	974	974	
L-12	11'-4"	10'-0"	1535	1618	819	BIG	
L-12 L-13	121-60	11-2*	1472	1433	765	765	
L-14	13'-4"	12'-0"	1155	1237	609	609	
L-15	14'-0"	12'-8"	1077	1050	524 467	524	
L-16 (P.5.)	141-81	B'-4*	1087	1087	555	467	
L-17 (P.S.)	15'-4"	14'-0"	1022	1007	943	555 943	
L-18 (P.S.)	17'-4"	16'-0"	864	864	731	731	
L-19 (P.S.)	19'-4"	18'-0"	747	747	573	573	
-20 (P.S.)	20'-0"	18'-8"	714	714	536	536	
L-21 (P.S.)	21'-4"	20'-8"	656	656	462	462	
-22 (P.S.)	24'-0"	22'-8"	563	563	360	360	

Design Criteria:
This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22.
Risk Category 2
Construction Type = Single Family Residential (V)
Wind Speed = 139 MPH Ultimate Wind Speed (Vult) and 108 MPH (Vasd)
Wind Exposure = Category C
Internal Pressure Coefficient for Enclosed Buildings is 0.18 and Height & Exposure Adjustment Coefficient is 1.40

Design Loads per FRBC 2023 edition Shingle Roof dead load = 17psf Building is not in an airborne debris area

All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given. Architectural drawings provide reference and information but are not intended to be structural. See structural drawings for engineered components and material requirements.



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Permitting Jurisdition City of Lake Mary 911 Wallace Ct. Lake Mary FL 32746 407-585-1361 LakeMaryFL.com/building

<u>Notes</u>

M M2 - Masonry & Lintel 2 Scale: 1/4" - 1'-0"

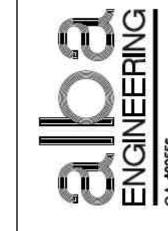
See pg. A2 for window and door sizes

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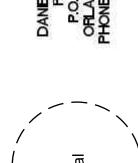
Page 17 of 26

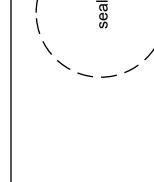


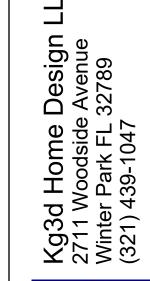














Carson Residence
Lot 13 Evansdale 2 PB 8 Pg. 38
153 Old Park Way

groningerhomes.com
Design Build Consult

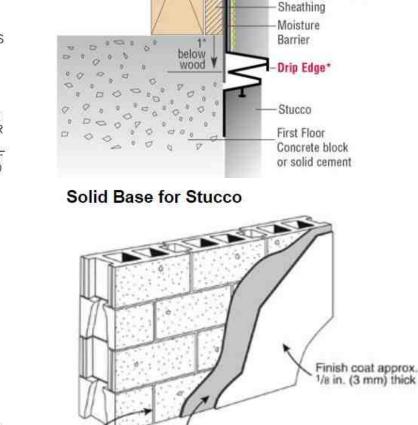
Date 09/22/25

MC
Page
18 of 26

Date 09/22/25 N1

STUCCO OVER WOOD FRAME TO BE ?" THICKNESS MIN. LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION RESISTANT MATERIALS. INSTALL PER FBC SECTION R703.6.1. EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED WITH 1-1/2", 11 GAUGE NAILS WITH 76 HEAD, OR 7/8" 16 GAGE STAPLES SPACED, NO MORE THAN 6 INCHES. WATER RESISTIVE BARRIER TO BE INSTALLED PER FBC SECTION R703.2. WHERE INSTALLED OVER WOOD PLYWOOD SHEATHING, SHEATHING, SHALL INCLUDE WATER-RESISTIVE SEE GENERAL NOTES VAPOR-PERMEABLE BARRIER EQUIVALENT TO TWO LAYERS - TYVEK BUILDING WRAP OF GRADE D PAPER. COMPLY WITH ASTM D 226. - PAPER BACKED GALVANIZED MTL. LATH F" STUCCO (THREE CONSTRUCTION THE WEEP SCREED. CMU/CONCRETE TO BE

WEEP SCREED TO BE INSTALLED PER FBC SECTION R703.6.2.1. A MINIMUM 26 GAUGE GALVANIZED WEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3.5 INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE OF THE TOP OF CMU WALL IN ACCORDANCE WITH ASTM C - WEEP SCREED OR CONTROL 926. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAVED AREAS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING, THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AN TERMINATE ON THE ATTACHMENT FLANGE OF DELINEATE AREAS NOT MORE THAT 144 SQ FT AND TO DELINEATE AREAS NOT MORE THAN 100 SQ FT FOR ALL HORIZONTAL APPLICATIONS (CEILINGS, CURVES OR ANGLE TYPE STRUCTURES), PER ASTM C 1063. CASING BEADS - NON LOAD-BEARING MEMBERS SHALL BE ISOLATED FROM LOAD BEARING MEMBERS, AND ALL PENETRATING ELEMENTS WITH CASING BEADS OR OTHER SUITABLE MEANS TO AVOID TRANSFER OF STRUCTURAL LOADS, AND TO SEPARATE FROM DISSIMILAR MATERIALS. WHERE VERTICAL AND HORIZONTAL STUCCO SURFACES MEET, METHODS OF DRAINAGE SHOULD BE PROVIDED PER



3/8 in. (9.5 mm) thick

-7/8" Stucco

Lapped Moisture Barrier

Second Floor Wood

SQUARE SPIGOT "TITAN" 25% PANEL WIDTH REQUIRED SPIGOT ARRANGEMENT FOR 72.8"-100" 100" PANEL SHOWN

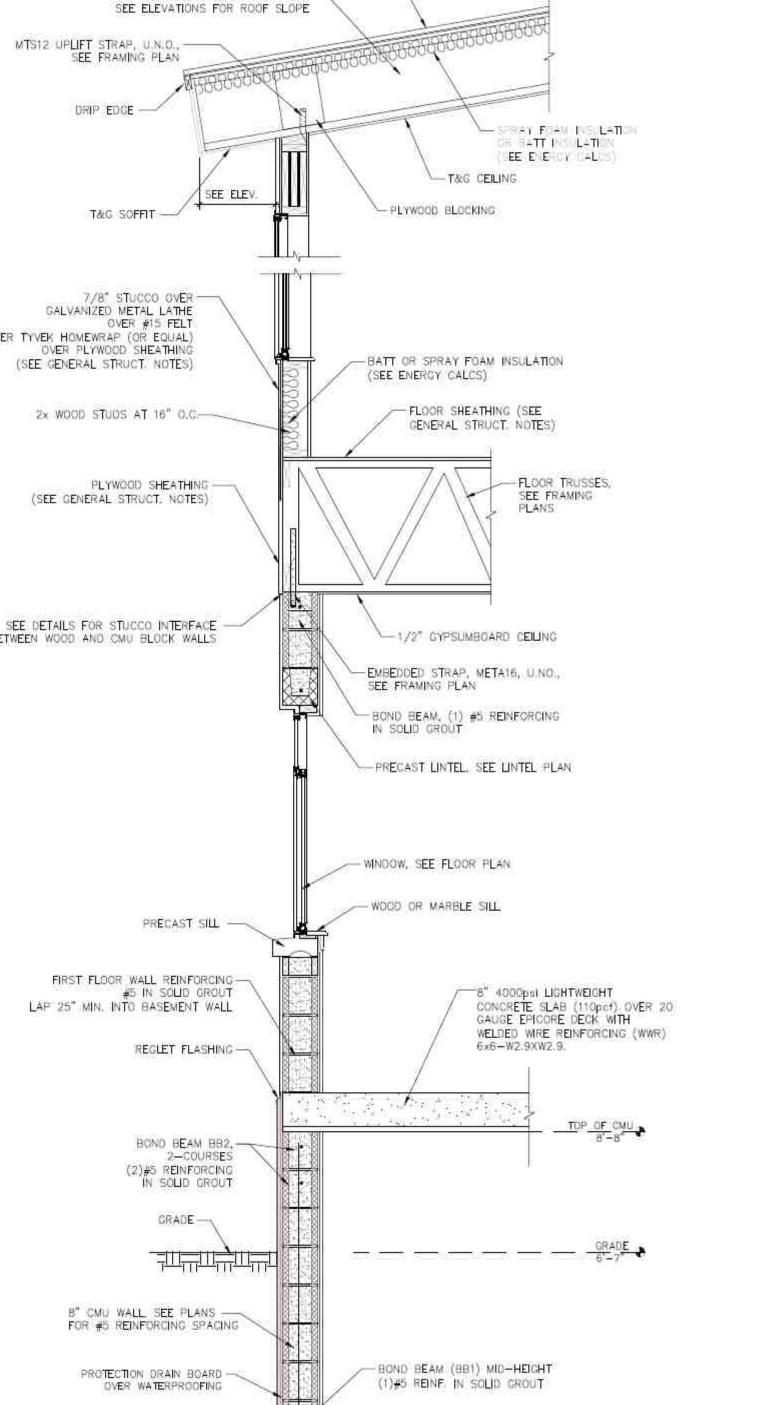
Balcony Railing Details

5" x 5" (127 x 127 mm) Base Flange with four Mounting Holes for Floor Anchors

One Piece Base Cover Flange

7/16" (11 mm)

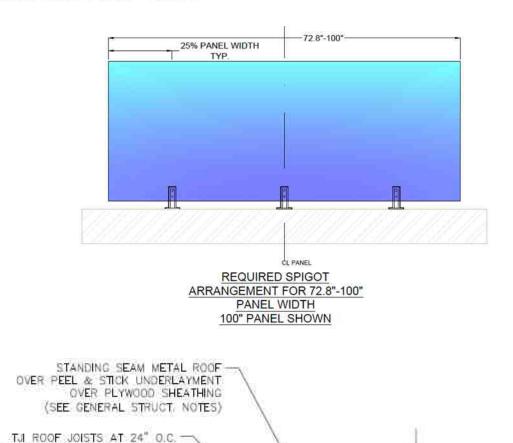
5-3/16" (132 mm)



see detail pg. C3

TO SOUD PIPE 10' FROM HOUSE.

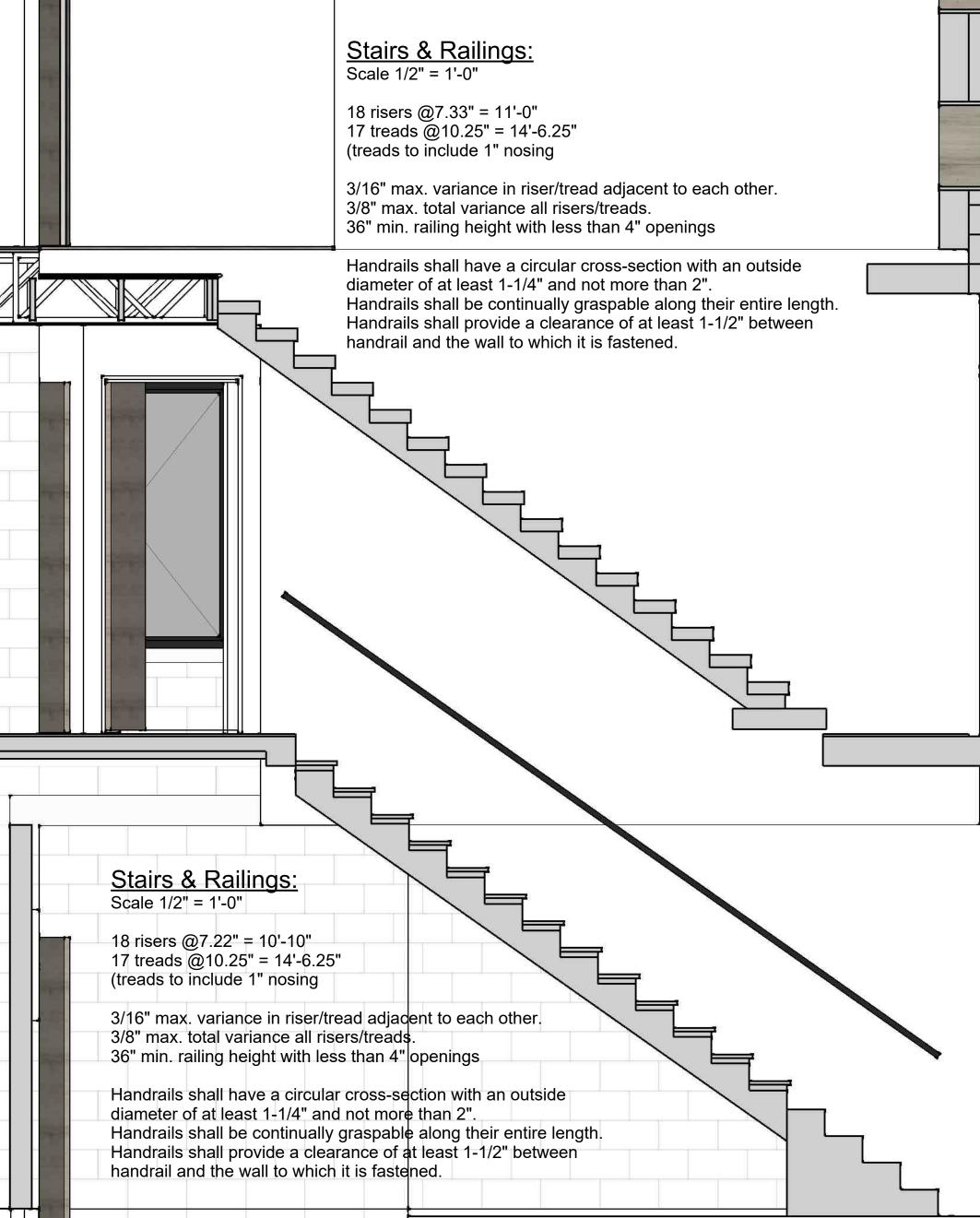
OVER TYVEK HOMEWRAP (OR EQUAL) SEE DETAILS FOR STUCCO INTERFACE -BETWEEN WOOD AND CMU BLOCK WALLS 1/2" GYPBOARD ON 3/4" P.T. FURRING TWO COATS OF APPLIED ---SEE ENERGY CALCS FOR INSULATION WATERPROOFING, HLM 5000, (OR APPROVED EQUAL), PREPARE ALL CONCRETE SURFACES, FILL CRACKS AND INSTALL WATERPROOFING PER MANUFACTURER SPECIFICATIONS TROWEL APPLICATION RECOMMENDED HYDRAULIC CEMENT — 45 DEGREE CANT. #5 REINF, x 24" EMBED 4" IN EPOXY NON-WOVEN FABRIC WRAPPEO — 4" DIA MIN, FRENCH BRAIN PIPE, WITH DISCHARGE POINT ON LOWER PORTION 4" DIA MIN FRENCH DRAIN PIPE, WITH DISCHARGE POINT ON LOWER PORTION OF SITE AT LEAST 20' FROM RESIDENCE, 4" CONC. SLAB, SEE PLAN SHEETS OF SITE AT LEAST 20' FROM RESIDENCE, PROVIDE 1% SLOPE MIN AND TRANSITION PROVIDE 1% SLOPE MIN AND TRANSITION



1.5" SQUARE

CAP RAIL





Design Criteria:

HORIZONTAL CROSS SECTION Shown w/1X sub-buck

This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22.

Height & Exposure Adjustment Coefficient is 1.40

1. Risk Category 2 Construction Type = Single Family Residential (V)

1-1/4" MIN. EMB. (TYP.)

TYP. HEAD & JAMBS

BUCK ANCHORING

MASONRY

FRAME -

2X BUCK -

FRAME ANCHORING
Masonry 2X buck construction

VERTICAL CROSS SECTION

MASONRY

OPENING

2X BUCK

VERTICAL CROSS SECTION
Shown w/1X sub-buck

Wind Speed = 139 MPH Ultimate Wind Speed (Vult) and 108 MPH (Vasd) Wind Exposure = Category C 4. Internal Pressure Coefficient for Enclosed Buildings is 0.18 and

Design Loads per FRBC 2023 edition Shingle Roof dead load = 17psf Building is not in an airborne debris area

All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given. Architectural drawings provide reference and information but are not intended to be structural. See structural drawings for engineered components and material requirements.

Refer to Window and Door Manufacturers' installation details. All installations shall be in compliance with respective, current Florida Building Code Product Approval requirements. Kg3d Home Design LLC and consulting engineers accept no responsibility for proper installation of building materials and products related to the exterior building shell or any other part of the building. Exterior building shell components include but aren't limited to roofing, flashings, building wrap, windows, doors, stucco, siding, sheathing any products or materials exposed to the weather.

N N1 - Notes & Details

15 MIL VAPOR BARRIER, TAPED TO WALL

— SEE FOUNDATION PLAN FOR SIZE AND REINFORCING

DRAFTSTOPPING PROVIDE DRAFTSTOPPING PER FBC-R302.12. IN COMBUSTIBLE CONSTRUCTION WHERE THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATE EQUAL AREAS.

Groninger Custom Homes, Inc.

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City of Lake Mary

Lake Mary FL 32746

LakeMaryFL.com/building

911 Wallace Ct.

407-585-1361

STANDING SEAM METAL ROOF — OVER PEEL & STICK UNDERLAYMENT OVER PLYWOOD SHEATHING

TJI ROOF JOISTS AT 24" O.C. — SEE ELEVATIONS FOR ROOF SLOPE

T&G SOFFIT -

PRECAST SILL -

REGLET FLASHING -

BOND SEAM BB2,

2-COURSES

(2)#5 REINFORCING IN SOLID GROUT

GRADE -

PROTECTION DRAIN BOARD - OVER WATERPRODFING

TWO COATS OF APPLIED -

WATERPROOFING, HLM 5000, (OR

HYDRAULIC CEMENT — 45 DEGREE CANT.

APPROVED EQUAL), PREPARE ALL
CONCRETE SURFACES, FILL CRACKS
AND INSTALL WATERPROOFING PER
MANUFACTURER SPECIFICATIONS.
TROWEL APPLICATION RECOMMENDED

NON-WOVEN FABRIC WRAPPED

TO SOLID PIPE 10' FROM HOUSE.

WASHED #57 GRAVEL -WRAPPED IN NON-WOVEN DRAINAGE FABRIC

FIRST FLOOR WALL REINFORCING -

LAP 25" MIN. INTO BASEMENT WALL

(SEE GENERAL STRUCT, NOTES)

Winter Park FL 32789

www.groningerhomes.com

keith@groningerhomes.com

Permitting Jurisdition

FRAT FORM INSULATION (SEE EMERRY CALCS) - EMBEDDED STRAP, META16, U.NO., SEE FRAMING PLAN BOND BEAM, (1) #5 REINFORCING PRECAST LINTEL, SEE LINTEL PLAN WINDOW, SEE FLOOR PLAN - WOOD OR MARBLE SILL 8" 4000psi LIGHTWEIGHT CONCRETE SLAB (110pcf) OVER 20 GAUGE EPICORE DECK WITH WELDED WIRE REINFORCING (WWR) 6x6-W2.9XW2.9.

(1)#5 REINF. IN SOLID GROUT

#5 REINF: x 24" EMBED 4" IN EFOXY

-1/2" GYPBOARD ON 3/4" P.T. FURRING.

4" CONC. SLAB, SEE PLAN SHEETS

-15 MIL VAPOR BARRIER, TAPED TO WALL

-SEE FOUNDATION PLAN FOR

SIZE AND REINFORCING

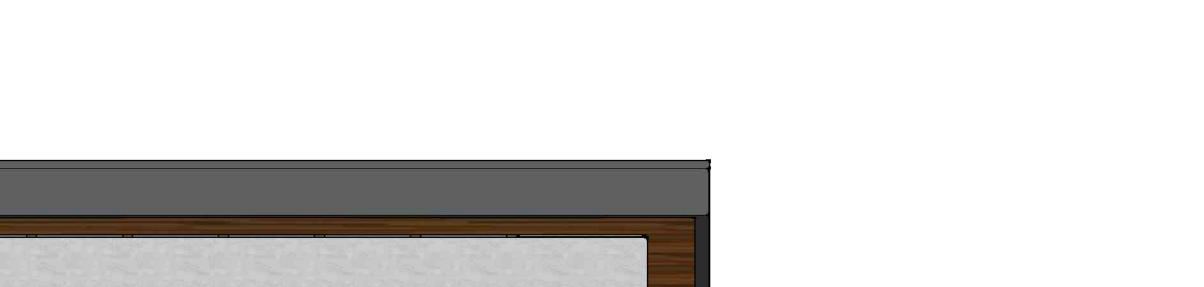
SEE ENERGY CALCS FOR INSULATION

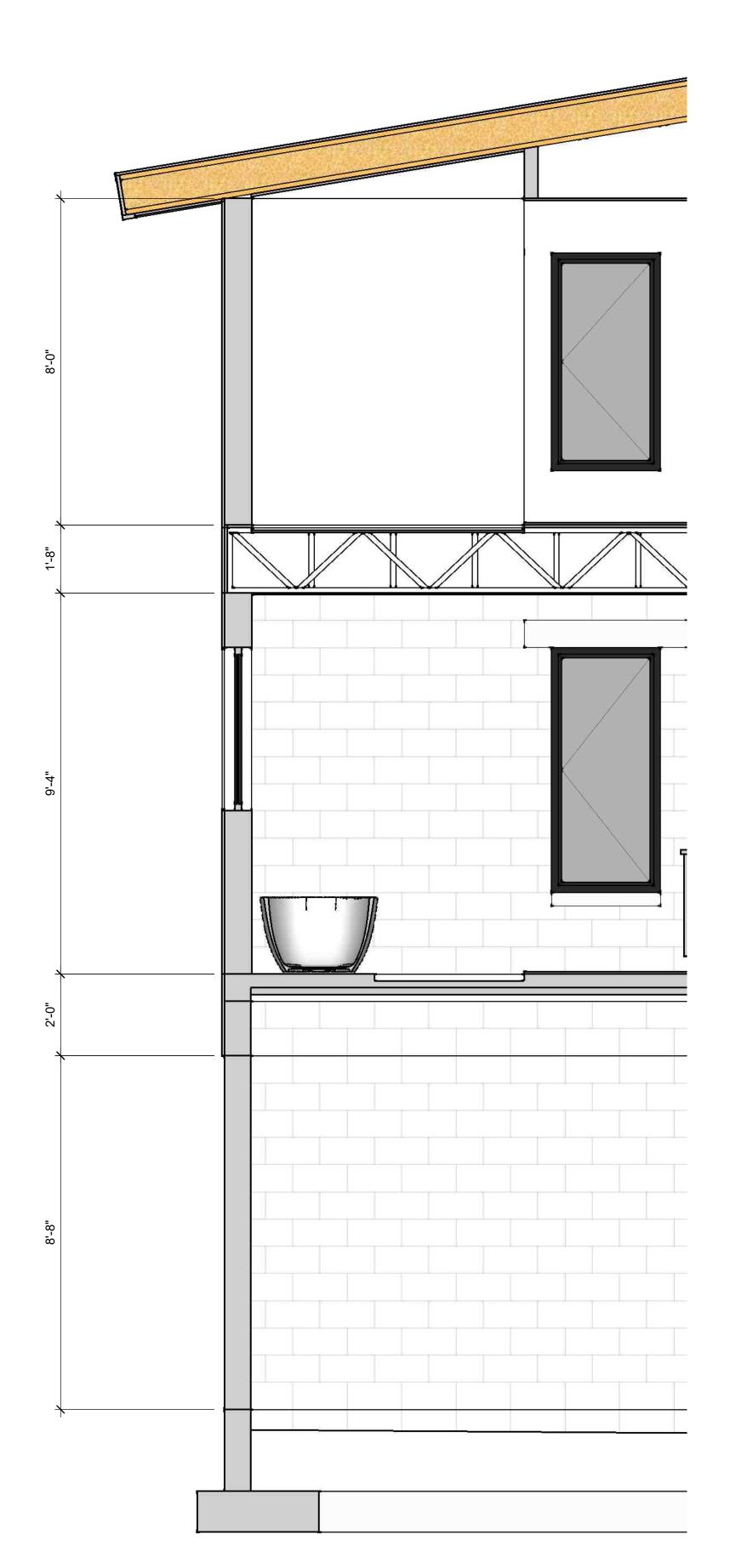
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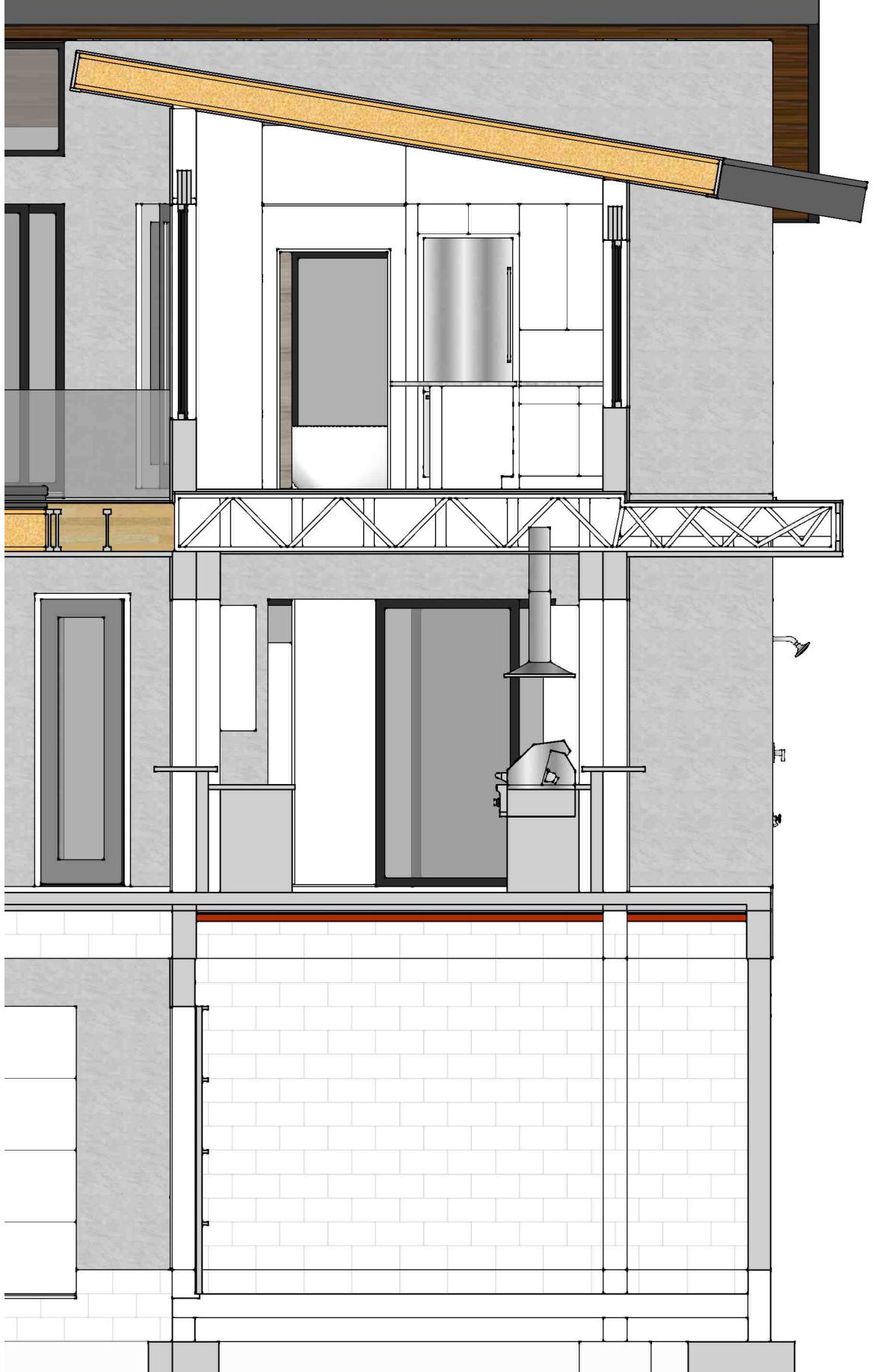
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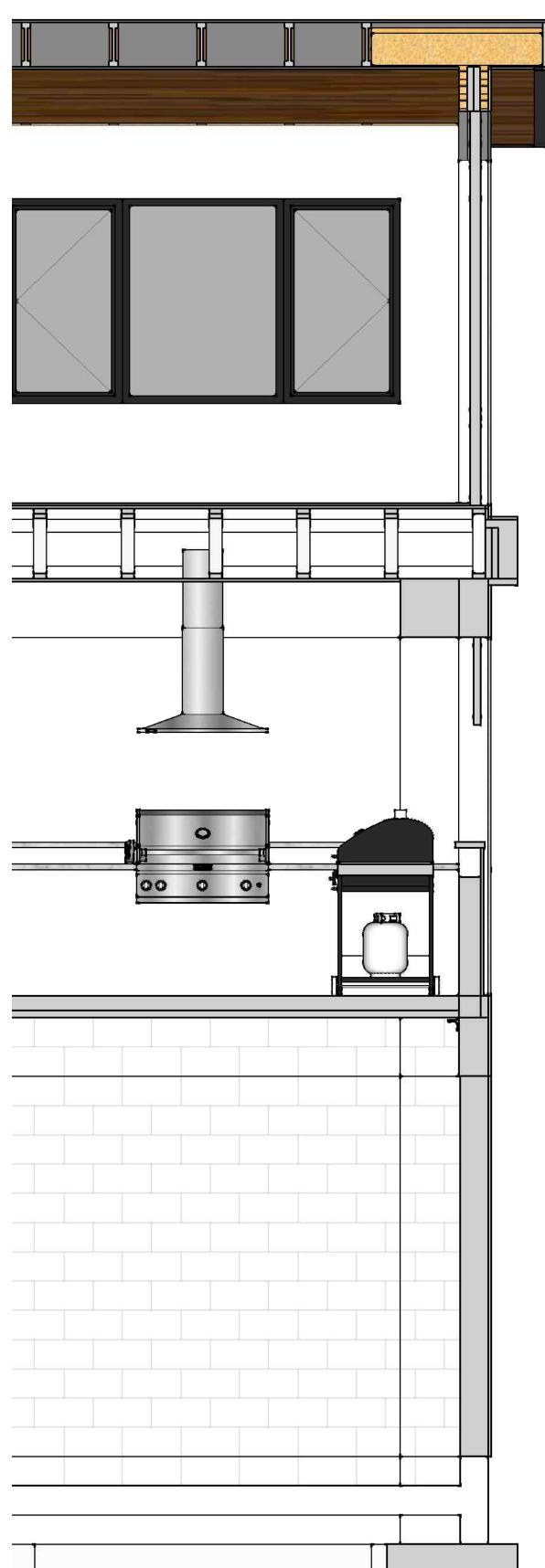
Keith Groninger 321-439-1047 cell keith@groningerhomes.com

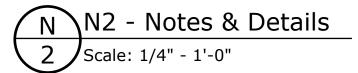
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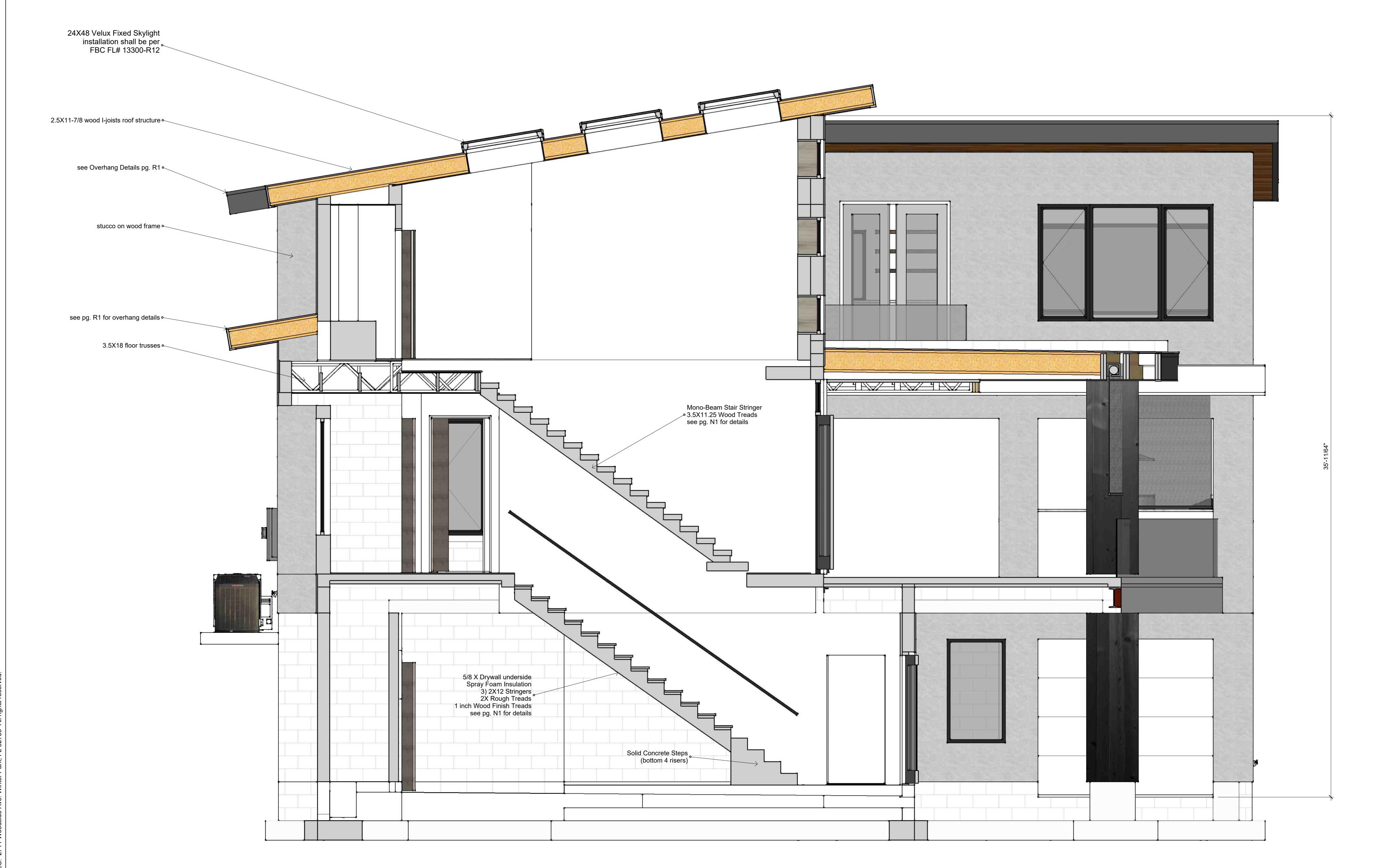
All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given. Architectural drawings provide reference and information but are not intended to be structural. See structural drawings for engineered components and material requirements.

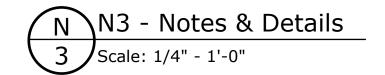
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Groninger Custom Homes, Inc.
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BUILDING CODES

A. ALL CONSTRUCTION SHALL CONFORM WITH THE 2023 (8th EDITION) FLORIDA BUILDING CODE - RESIDENTIAL

B. IN ADDITION, ALL CONSTRUCTION SHALL CONFORM WITH THE GOVERNING LOCAL BUILDING CODE OR LOCAL JURISDICTIONAL REQUIREMENTS.

DESIGN LOADS

A. THE DESIGN DEAD LOADING FOR ALL FRAMING IS BASED ON THE CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS AND INDICATED IN THE SPECIFICATIONS. ALL FRAMING IS DESIGNED FOR THE FOLLOWING UNIFORM DEAD LOADS APPLIED IN ADDITION TO STRUCTURE SELF WEIGHT:

ROOFING (TILE)... ..10PSF ROOFING (SHINGLE, METAL, SINGLE PLY)......5PSF

B. THE MINIMUM DESIGN UNIFORMLY DISTRIBUTED LIVE LOADING FOR ALL NEW FRAMING SHALL BE AS FOLLOWS:

FLOOR LIVE LOADS UNINHABITABLE ATTICS WITHOUT STORAGE......10PSF UNINHABITABLE ATTICS W/ LIMITED STORAGE.....20PSF HABITABLE ATTICS AND ATTICS WITH STAIRS.....30PSF SLEEPING AREAS... 30PSE ALL OTHER AREAS INCL. STAIRS. .40PSF BALCONIES (EXTERIOR) AND DECKS50PSF PASSENGER VEHICLE GARAGES50PSF

ROOF LIVE LOAD20PSF

 C. HANDRAIL/GUARDRAIL LIVE LOADS GUARDS AND HANDRAILS (HIGHER OF) 200LB PT LOAD OR 50PLF

D. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE METHOD OF CONSTRUCTION AND SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING REQUIRED TO MAINTAIN THE STABILITY OF THE STRUCTURE AND TO SUPPORT CONSTRUCTION LOADS DURING CONSTRUCTION, INCLUDING SOILS ON WALLS FROM BACKFILLING PRIOR TO PLACING SLABS ON GRADE, DESIGN OF ALL BRACING IS THE CONTRACTORS RESPONSIBILITY. ANY SHORING OR BRACING ENGINEERING REQUIRED IS THE RESPONSIBILITY OF OTHERS.

MISCELLANEOUS

A. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR OR OWNER FOR REVIEW BY THE ENGINEER.

B. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, ELECTRICAL PLUMBING AND STRUCTURAL DRAWINGS FOR LOCATION AND DIMENSION OF CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS.

C. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION. ALL DISCREPANCIES AND OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONALS.

D. SCALES SHOWN ON THE CONSTRUCTION DOCUMENTS ARE FOR GENERAL INFORMATION ONLY. DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.

4. SPREAD FOOTING FOUNDATIONS

A. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE LOCATED AS INDICATED ON THE DRAWINGS.

B. ALL FOUNDATIONS HAVE BEEN DESIGNED FOR AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF, THE ALLOWABLE SOIL BEARING PRESSURE SHALL BE FIELD VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER AND APPROVED PRIOR TO PLACING FOUNDATIONS. SHOULD THE ACTUAL SOIL BEARING PRESSURE BE LESS THAN 2000 PSF, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.

C. ALL FILL PLACED UNDER SPREAD FOOTINGS SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 OR ALTERNATIVE REQUIREMENTS PROVIDED BY A GEOTECHNICAL ENGINEER.

 ALL EXISTING SOIL CONTAINING GRAVEL, CONSTRUCTION OR DEMOLITION DEBRIS, ORGANIC SUBSTANCES, OR OTHER FOREIGN OBJECTS SHALL BE REMOVED FROM THE REGION WITHIN THE FOOTPRINT OF THE STRUCTURE.

STRUCTURAL FILL

A. NEW FILL MATERIAL AND EXISTING BASE MATERIAL SHALL BE FREE OF ALL REFUSE, DEBRIS, AND ORGANIC MATTER AND SHALL BE APPROVED FOR USE BY A GEOTECHNICAL ENGINEER.

B. FILL MATERIAL SHALL BE DEPOSITED IN 8 INCH MAXIMUM LOOSE LIFTS AND COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 OR ALTERNATIVE REQUIREMENTS PROVIDED BY A GEOTECHNICAL ENGINEER.

SLABS ON GRADE

A. ALL SLABS ON GRADE SHALL CONSIST OF A 4 INCH THICK 2500 PSI (MIN) SLAB PLACED OVER A 6 MIL (MIN.) POLYETHYLENE VAPOR RETARDER OVER CLEAN COMPACTED FILL REINFORCED WITH POLYPROPOLENE FIBERS (FIBERMESH OR EQUAL), MIN. 1-1/2" LONG AT A RATE OF 1.5 LBS/ CY OF CONCRETE. ALL EDGES OF VAPOR RETARDER SHALL BE LAPPED 6 INCHES MIN. AND TAPED AT ALL JOINTS/PENETRATIONS.

B. ANY TERMITE TREATMENT SPECIFIED AND PERMITTED BY FBC-1816 IS ACCEPTABLE, INCLUDING: SOIL TREATMENT WITH REGISTERED TERMITICIDE, OR BAITING SYSTEMS (SENTRICON OR APPROVED EQUAL), OR PESTICIDES APPLIED TO WOOD (BORA-CARE OR APPROVED EQUAL)

C. SLABS ON GRADE SHALL BE SCREEDED, FLOATED, AND STEEL TROWELLED TO FORM AN SMOOTH, DENSE, AND PLANE SURFACE.

ANY BROOM FINISHED AREAS OF CONCRETE TO BE COORDINATED WITH OWNER

D. PLACE CONCRETE PER ACI 302. CONTRACTOR SHALL READ, UNDERSTAND FOLLOW GUIDELINES SET FORTH FOR PREPARING SUBGRADE, PLACING,

CONSOLIDATING, FINISHING AND CURING CONCRETE SLABS.

NOT TO EXCEED MAX, SPACING OF 12'-0"

E. EXTEND SLAB 1-1/2" INCHES MIN. AT DOOR OPENINGS AND SLIDING GLASS

DOORS, AND RECESS 1" MIN. FOR TRACKS/THRESHOLDS AS NECESSARY.

F. SAWCUT CONTROL JOINTS IN CONCRETE SLAB RECOMMENDED AT 12'-0" O.C. MAX ← 1/8" SAWCUT WITHIN 4-6 HOURS OF CONC. PLACEMENT RECOMMENDED 4 4 NOTE: RECOMMENDED SPACING OF CONTROL JOINTS

CAST IN PLACE CONCRETE

A. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)"; AND TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)".

B. IN ADDITION TO THE ABOVE, ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING:

REC. PRACTICE FOR HOT WEATHER CONCRETING (ACI 305). REC. PRACTICE FOR COLD WEATHER CONCRETING (ACI 306). REC. PRACTICE FOR CONCRETE FORMWORK (ACI 347).

C. ALL CONCRETE EXPOSED TO PUBLIC VIEW SHALL CONFORM TO THE REQUIREMENTS FOR ARCHITECTURAL CONCRETE CONTAINED IN ACI 301.

D. ALL CONCRETE; UNLESS NOTED OTHERWISE, SHALL BE STONE AGGREGATE CONCRETE HAVING THE FOLLOWING MINIMUM 28 DAY

> FOUNDATIONS SLABS ON GRADE BEAMS/COLUMNS/ELEVATED SLABS

COMPRESSIVE STRENGTHS:

ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE AN AIR ENTRAINMENT OF 5% +/- 1%. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED. MAXIMUM AGGREGATE SIZE SHALL BE 1", AND MAXIMUM SLUMP SHALL BE 4", 3" FOR SLABS ON GRADE. ALL CONCRETE EXCEPT FOOTINGS SHALL CONTAIN A WATER REDUCING ADMIXTURE. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150 AND NORMAL WEIGHT AGGREGATES SHALL CONFORM ASTM C 33.

2500 PSI

2500 PSI

3000 PSI

ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO GRADE 60 MIN. GRADE 40 ACCEPTABLE FOR FOUNDATIONS. ALL WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A 185. LAP ALL REINFORCING BARS A MINIMUM OF 48 BAR DIAMETERS (30" FOR #5 REINF.) AND ALL W.W.F. A MINIMUM OF TWO FULL GRIDS, UNLESS OTHERWISE INDICATED.

G. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE CRSI "MANUAL OF STANDARD PRACTICE". ACI 315" DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", ACI SP 66 "DETAILING MANUAL".

GROUND BLAST FURNACE SLAG MAY BE USED TO REPLACE UP TO 50 PERCENT OF THE PORTLAND CEMENT IN A CONCRETE MIX, AND FLY ASH OR POZZOLAN MAY BE USED TO REPLACE UP TO 25 PERCENT OF PORTLAND CEMENT, SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND SHALL CONFORM TO ASTM C 989.

MINIMUM COVER FOR ALL REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:

FOUNDATIONS 3 INCHES SLABS ON GRADE 2 INCHES (TOP) ALL OTHER CONCRETE ACI STANDARDS

8. CONCRETE MASONRY

A. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5/TMS 402)" AND TO THE "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6/TMS 602)".

B. ALL CONCRETE MASONRY SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, f'm = 1500 PSI.

C. ALL WALLS SHALL BE CONSTRUCTED OF NORMAL WEIGHT HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90 WITH A NET COMPRESSIVE STRENGTH OF 1900 PSI.

D. ALL EXTERIOR WALLS AND BEARING WALLS SHALL BE CONSTRUCTED WITH TYPE "S" CEMENT LIME MORTAR ABOVE GRADE, AND TYPE "M" BELOW GRADE. ALL MORTAR SHALL CONFORM TO ASTM C270 WITH TYPE "S" MORTAR OBTAINING AN AVERAGE COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS AND TYPE "M" MORTAR OBTAINING AN AVERAGE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

ALL FILL FOR CONCRETE MASONRY SHALL BE GROUT CONFORMING TO ASTM C 476 WITH A COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

F. ALL MASONRY WALLS SHALL BE REINFORCED WITH 9 GA LADDER TYPE GALVANIZED HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A 82 AND SPACED VERTICALLY AT 16" O.C. UNLESS OTHERWISE INDICATED. PROVIDE CORNER AND TEE PIECES AT ALL INTERSECTIONS. LAP ALL JOINTS 6" MINIMUM. LADDER REINF. IS RECOMMENDED FOR SHRINKAGE CRACK CONTROL, HOWEVER, AT GENERAL CONTRACTOR DISCRETION THE LADDER REINFORCING MAY BE ELIMINATED AND IS NOT A FBC MANDATED REQUIREMENT.

ALL REINFORCING BARS FOR MASONRY SHALL BE NEW BILLET STEEL CONFORMING TO GRADE 40 MIN

H. ALL VERTICAL REINFORCING SHALL BE LAP SPLICED A MINIMUM OF 48 BAR DIAMETERS (30" FOR #5 REINF.) UNLESS OTHERWISE INDICATED (25" LAP IS ACCEPTABLE AT FOUNDATION STUB UP REINF.). ALL MASONRY CORES CONTAINING VERTICAL REINFORCING SHALL BE GROUTED SOLID.

 IF VERTICAL REINF, IS MISSING/MISPLACED, REPLACEMENT REINF, MAY BE DOWELLED INTO FOOTING 5" MIN. WITH EPOXY.

 ALL EPOXY CALLED FOR IN PLANS TO BE SIMPSON SET (CONCRETE OR MASONRY). SIMPSON HP-ET, (CONCRETE OR MASONRY), HILTI HIT-RE 500 V3 (CONCRETE), OR HILTI HIT-HY 270 (MASONRY).

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WOOD

A. ALL STRUCTURAL SHEATHING SHALL CONFORM TO THE DESIGN SPECIFICATIONS OF THE AMERICAN PLYWOOD ASSOCIATION, APA PS 1 PLYWOOD SHALL HAVE A MINIMUM OF THREE CONTINUOUS SPANS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. ALL SHEATHING SHALL BE SPAN RATED FOR THE LOADS AND FRAMING SPACING AS INDICATED ON THE DRAWINGS.

B. FLOOR SHEATHING: USE 23/32" PLYWOOD (MIN.) FOR FLOOR SHEATHING. FASTEN PLYWOOD TO FLOOR TRUSSES W/ #8 SCREWS AT 6" O.C. AND GLUE.

C. ROOF SHEATHING:

USE 19/32" (5/8") CDX, OR ZIP OR OSB (MIN.) FOR ROOF SHEATHING FASTEN TO ROOF FRAMING W/ 8d RING SHANK NAILS (ASTM F1667 RSRS-U3) AT 4" U.C. AT ALL PANEL EDGE SUPPORTS AND 6" O.C. AT ALL INTERIOR SUPPORTS, REDUCE NAIL SPACING TO 4" O.C. WITHIN 4"-0" OF ALL ROOF EDGES PER DIAGRAM SHOWN BELOW (ZONES Z AND 3). IN EXPOSURE B AREAS CONTRACTOR PERMITTED TO SUBSTITUTE 15/32" (1/2") CDX OR 7/16" ZIP/OSB USING PLYWOOD SHEATHING CLIPS AND WITH DWNER'S APPROVAL, IN EXPOSURE B AREAS FASTENERS MAY BE INSTALLED AT 6" O.C. AT ALL LOCATIONS. ROOF SHEATHING SHALL NOT CANTILEVER MORE THAN 9" BEYOND A GABLE END WALL UNLESS SUPPORTED BY GABLE OVERHANG FRAMING.

VERTICAL WALL SHEATHING (INC. GABLES, TRUSS HEELS ETC.): USE 15/32" CDX. OR 7/16" OSB/ZIP (MIN.) FOR WALL SHEATHING FASTEN SHEATHING TO STUDS W/ 8d NAILS @ 6" O.C. AT ALL EDGE SUPPORTS AND 6" O.C. AT ALL INTERIOR SUPPORTS. (MIN. PENETRATION 1-1/2")

E. WOOD GRADE SHALL BE REGULAR SOUTHERN PINE NO. 2, 19% MOISTURE CONTENT MAX., Fb = 1400psi MIN. 2x4 STUDS MAY BE SPRUCE, PINE OR FIR.

F. ALL MANUFACTURED/GLULAM/POWERBEAM/LVL MEMBERS TO HAVE A MINIMUM BENDING STRESS OF Fb = 2250psi AND COMPLY WITH FBCR 802.1.2.

G. ALL DOUBLE BEAMS TO BE CONNECTED WITH 12d NAILS AT 16" O.C. STAGGERED, MIN. ALL TRIPLE AND QUADRUPLE BEAMS TO BE CONNECTED WITH &" DIA, LAG SCREWS AT 16" O.C. ON BOTH FACES OF BEAM.

H. ALL SIMPSON CONNECTORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, INCLUDING NUMBER, LENGTH AND DIAMETER OF FASTENER. WHERE CONNECTOR HAS MULTIPLE OPTIONS FOR NUMBER OF NAIL HOLES TO BE FILLED, THE MAX. NUMBER OF NAIL HOLES SHOULD BE FILLED U.N.O.

ALL WOOD IN CONTACT WITH THE GROUND AND THAT SUPPORTS PERMANENT STRUCTURES INTENDED FOR HUMAN OCCUPANCY SHALL BE APPROVED PRESERVATIVE TREATED WOOD (FBC R317.1.2.), FASTENERS IN CONTACT WITH PRESERVATIVE TREATED WOOD TO COMPLY WITH FBC R317.3.1. OR PROVIDE BUILDING PAPER OR PEEL & STICK BARRIER BETWEEN CMU/WOOD.

INTERIOR NON-LOAD BEARING STUD WALLS TO BE 2x4 STUDS SPACED AT 24" ON

RIS	K CATEGO	SPEED Vult = 139 MPH DRY = II URE CATEGORY = C RESSURE COEFF. (ASCE EN	
		COMPONENTS AND C WIND PRESSURE SC Vasd VALUES (ROOF ANGLE 20°-	HEDULE 3
	ZONE	TRIBUTARY AREA	PRESSURE
	ñ	10 20 50 100	+22.1, -39.6 +19.0, -42.1 +15.1, -29.1 +14.0, -24.6
HIP-ROOF	2	10 20 50 100	+22.1, -54.7 +19.0, -48.9 +15.1, -41.1 +14.0, -35.4
	3	10 20 50 100	+22.1, -54.7 +19.0, -48.9 +15.1, -41.1 +14.0, -35.4
	1	10 20 50 100	+22.1, -42.1 +19.0, -42.1 +15.1, -35.8 +14.0, -30.9
GABLE-ROOF	2	10 20 50 100	+22.1, -67.2 +19.0, -58.9 +15.1, -47.9 +14.0, -39.6
	3	10 20 50 100	+22.1, -79.8 +19.0, -67.2 +15.1, -49.7 +14.0, -49.7

+25.7, -27.7

+24.4, -26.6

+23.0, -25.0

+21.8, -24.0

+25.7, -34.2

+24.4, -31.9

+23.0, -28.9

+21.8, -26.6

+27.3, -29.5

+26.1, -28.4

+24.5, -26.7

+23.2, -25.5

+27.3, -36.5

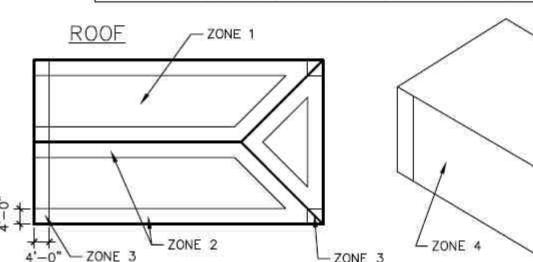
+26.1, -34.1

+24.5, -30.8

+23.2, -28.4ALL WINDOWS AND DOORS TO BE SELECTED FROM WALL PRESSURE TABLES. ZONES 2, 3 & 5 WITHIN 4'-0" OF CORNERS/EDGES.

100

100



14. STRUCTURAL AND MISCELLANEOUS STEEL

- A. ALL STEEL CONSTRUCTION SHALL CONFORM TO THE FIFTEENTH EDITION OF THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS: ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- B. ALL STRUCTURAL STEEL (WIDE FLANGE BEAMS, COLUMNS, ETC.) SHALL CONFORM TO ASTM A 992 GRADE 50.
- ALL MISCELLANEOUS STEEL (ANGLES, PLATES, ETC.) SHALL CONFORM TO ASTM A 36 HAVING A MINIMUM YIELD STRENGTH OF Fy = 36,000 PSI.
- D. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A 501 HAVING A MINIMUM YIELD STRENGTH OF Fy = 36,000 PSI OR TO ASTM A 53, TYPE "E" OR "S" GRADE "B", HAVING A MINIMUM YIELD STRENGTH OF Fy = 35,000 PSI.
- E. ALL STRUCTURAL STEEL TUBES SHALL CONFORM TO ASTM A 500. GRADE "B", HAVING A MINIMUM YIELD STRENGTH OF Fy = 50,000 PSI.
- F. ALL BEAM CONNECTIONS SHALL DEVELOP THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER WITH DUE CONSIDERATION OF CONCENTRATED LOADS. BOLTED CONNECTIONS SHALL USE NO LESS THAN TWO 3/4" DIA. ASTM A325N OR A490 HIGH STRENGTH BOLTS. CONFORM TO AISC SPECIFICATION "STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". ALL STEEL BOLTED CONNECTIONS SHALL BE SNUG-TIGHT UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ALL WELDED CONNECTIONS SHALL USE E70XX ELECTRODES.
- G. ALL ANCHOR RODS AND BOLTS, EPOXY BOLT CONNECTIONS, AND ALL THREADED RODS INDICATED ON PLANS SHALL BE A36 THREADED ROD (OR GREATER STRENGTH) U.N.O. ON PLANS OR DETAILS. WHERE A WELDED ROD OR BOLT IS INDICATED ON THE PLANS, THIS SHALL BE A36 OR A572 TYPE ANCHOR RODS (NOT HEADED STUDS).
- H. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY CERTIFIED WELDERS AND CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AWS D1.1. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED UNLESS OTHERWISE INDICATED.
- I. ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH AN APPROVED CORROSION RESISTANT PRIMER AND SHALL BE PERFORMED IN STRICT ACCORDANCE WITH AISC AND SSPC SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.
- J. GROUT FOR BASE AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT CONFORMING TO ASTM C 827 WITH MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.

ASTM A123 FOLLOWING FABRICATION.

MISCELLANEOUS STEEL FRAMING INCLUDING ALL CONNECTIONS, FASTENERS, AND BEARINGS. L. ALL STEEL MEMBERS THAT WILL BE PERMANENTLY EXPOSED TO WEATHER, SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH

K. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING THE

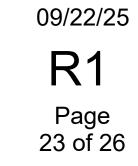
SIZES, EXTENT, AND LOCATION OF ALL STRUCTURAL AND

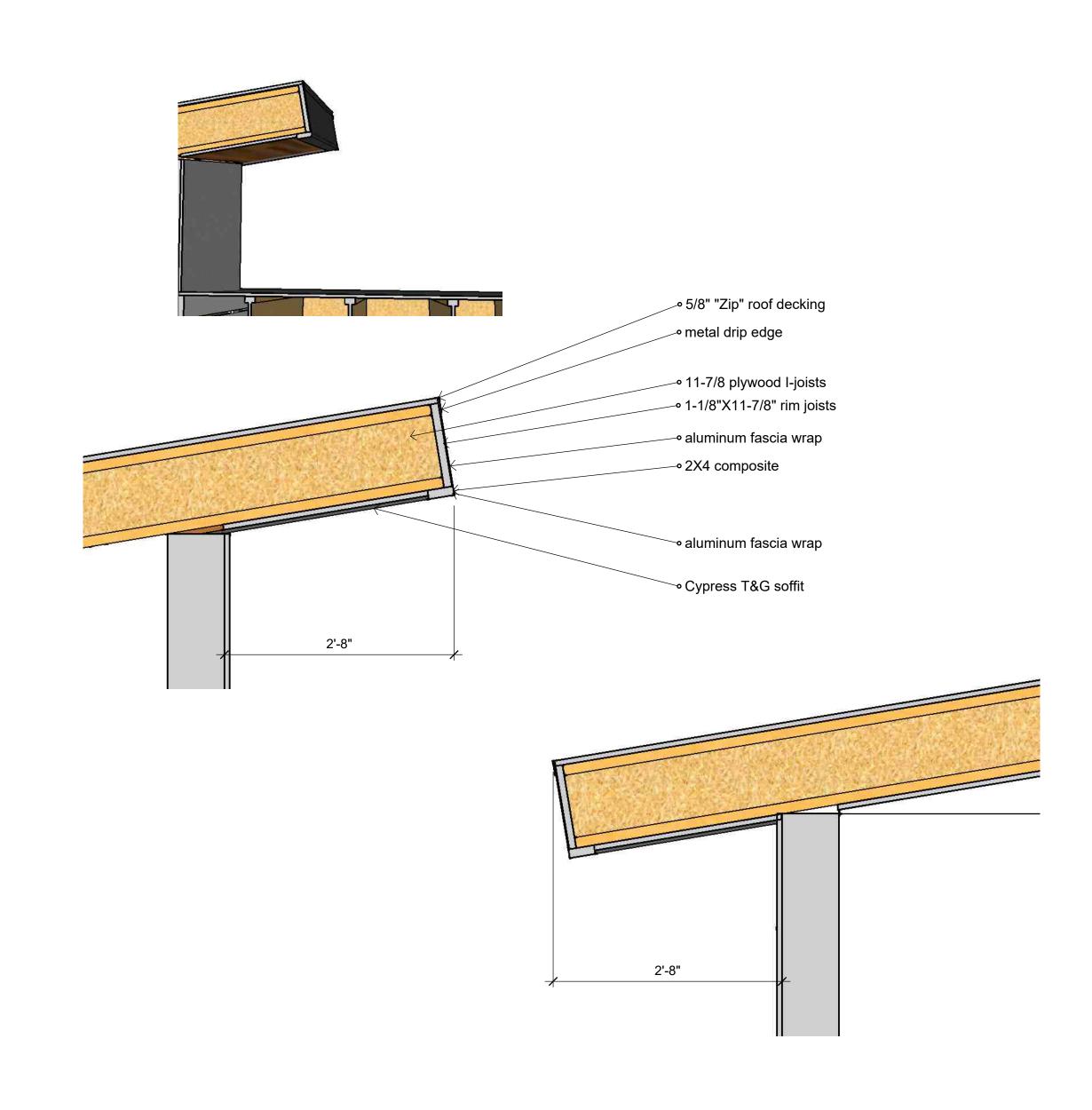
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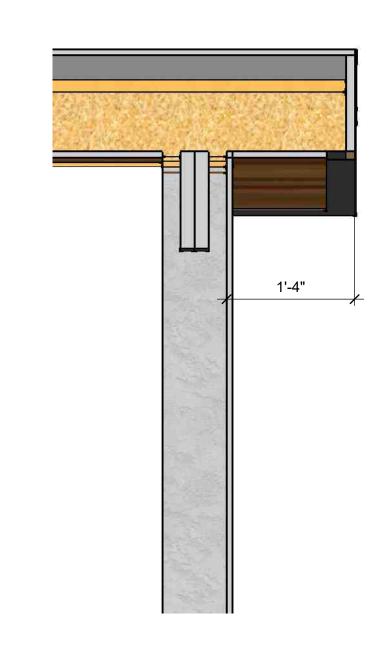
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Date R1







Design Criteria:

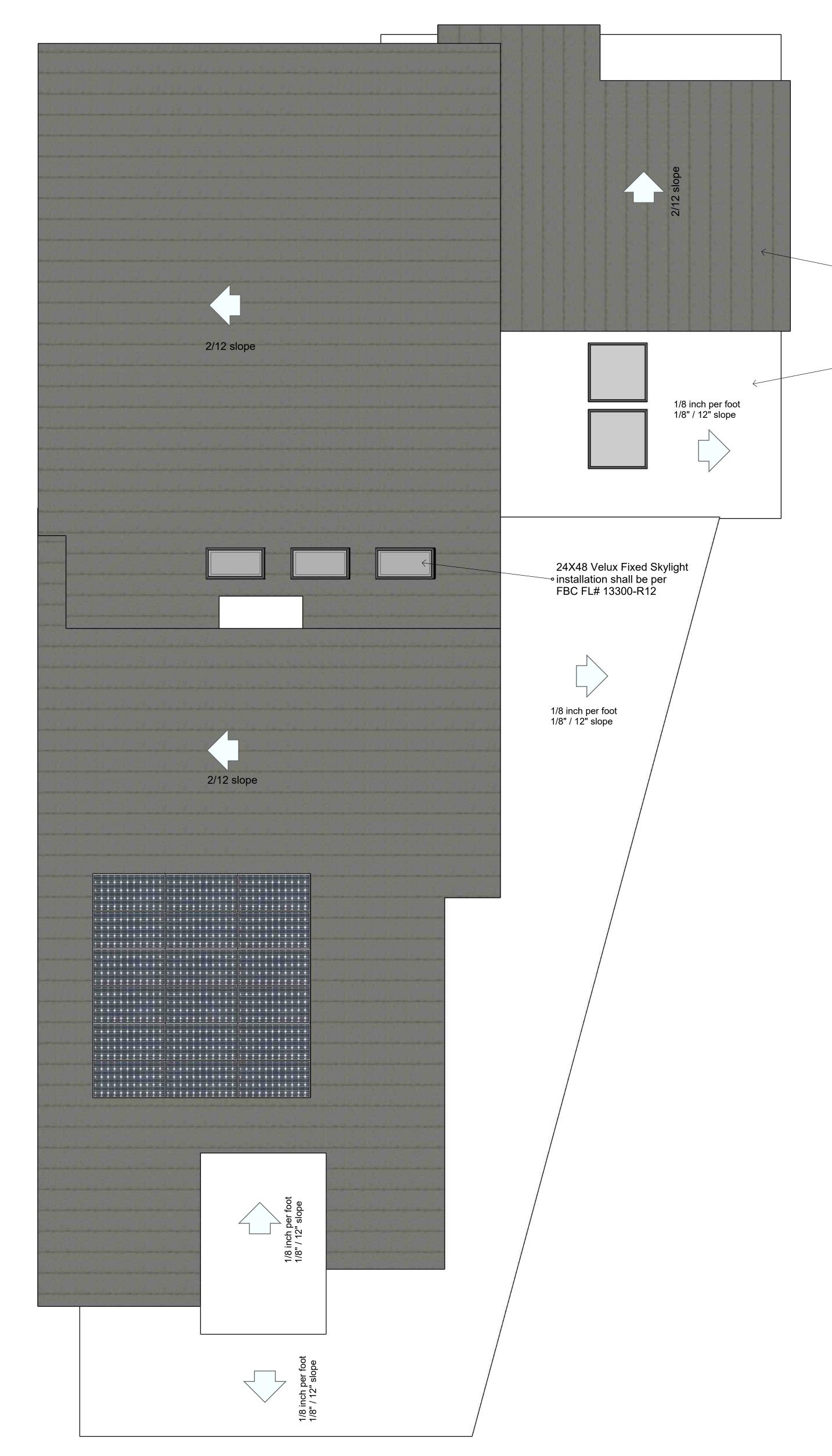
This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22.

- Risk Category 2
 Construction Type = Single Family Residential (V)
 Wind Speed = 139 MPH Ultimate Wind Speed (Vult) and 108 MPH (Vasd)
- Wind Exposure = Category C
 Internal Pressure Coefficient for Enclosed Buildings is 0.18 and Height & Exposure Adjustment Coefficient is 1.40

Design Loads per FRBC 2023 edition Shingle Roof dead load = 17psf Building is not in an airborne debris area

All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given.

Architectural drawings provide reference and information but are not intended to be structural. See structural drawings for engineered components and material requirements.



City of Lake Mary 911 Wallace Ct. Lake Mary FL 32746 407-585-1361 LakeMaryFL.com/building

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www.groningerhomes.com

keith@groningerhomes.com

Permitting Jurisdition

321-352-5202 tel 321-445-5566 fax

Keith Groninger 321-439-1047 cell

Rooting Notes

1. Show all roof vents, plumbing stacks and penetrations.

<u>0680 - Roofing</u> Standing Seam Metal Roof (no roof vents) GulfLok Eval Non-HVHZ FBC FL33818-R2

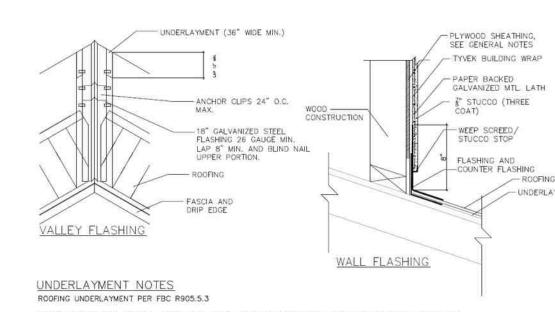
Groninger Custom Homes, Inc.

• GAF EverGuard TPO Roof System FBC FL5293.2 R65

Foam Insulation (sealed attic) 5/8" plywood "Zip" roof deck 32" overhang typical (see R1 for details)
1X6 Cypress T&G soffits (no venting)

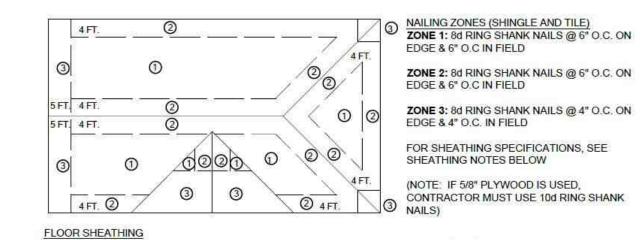
All Roof Penetrations shall not be visible from the front of the house.

See Overhang Details pg. R1.



UNDERLAYMENT 2:12 TO 4:12, ASTM D226, TYPE I OR II OR ASTM D4869 TYPE I, II OR IV OR ASTM D6757. UNDERLAYMENT 4:12 AND GREATER, ASTM D226, TYPE II OR ASTM D4869 TYPE IV OR ASTM D6757.

ASTM D1970 SELF ADHERED UNDERLAYMENT MAY BE USED INSTEAD OF NAILED UNDERLAYMENT IN ALL CASES.



PLYWOOD FLOORING TO BE MIN. 3/4" T & G PLYWOOD GLUE & SCREWED WITH 3/16" x2¹/4" SCREWS AT 6" O.C. ALL EDGES & 12" O.C. INTERMEDIATE U.N.O. (GENERAL FLOOR FINISHES ARE ACCEPTABLE IF LIGHTWEIGHT CONCRETE OR SELF LEVELING CONCRETE IS REQUIRED CONTACT E.O.R. ALONG WITH TRUSS COMPANY TO VERIFY FLOOR

TILE ROOFING SYSTEM (SEE ARCH.) OVER MIN. 1/2" OSB (4 PLY) PLYWOOD, SHINGLE OR METAL ROOFING SYSTEM (SEE ARCH.) OVER MIN. 1/2" OSB SPAN RATED 2418 ON PRE-ENGINEERED WOOD TRUSSES AT 2"-0" O.C. MAX. OR CONVENTIONAL FRAME ROOF. (SEE PLAN FOR SIZE AND SPACING. SEE ARCHITECTURAL PLAN FOR TYPICAL ROOF SLOPE AND OTHER INFORMATION.



S1 Page 24 of 26

FRAMING - BEYOND SHEATHING 1/2" O.S.B. -EXPOSURE 1 SHEATHING **OPENING** 2x RIBBON OR BLOCKING BETWEEN FLOOR E) FLOOR SYSTEM VERT. SHEATHING (BUILDER OPTION) WALL SHEATHING & NAILING, TYP - SHEATHING JOINTS ALLOW * . . . * VERTICAL BLOCKING

SHEATHING MAY BE INSTALLED VERTICALLY OR

NOT PENETRATE SURFACE MORE THAN %".

PENETRATE SURFACE MORE THAN 18"

HORIZONTALLY, ATTACH PER NAILING SCHEDULE. PANEL

JOINTS TO ALLOW FOR EXPANSION. FASTENERS SHALL

DO NOT OVERDRIVE NAILS: FASTENERS SHALL NOT

- CONT 2X SILL PLATE FASTEN THROUGH PLYWOOD FLOOR

SHEATHING TO TRUSSES WITH

(2)12d NAILS @ EACH TRUSS

SLOT CUT FLOOR ---

TRUSS TO SILL PLATE

OR (2) 1 x6" SDS SCREWS

FLOOR TRUSSES

PLYWOOD, SIMPSON

MTS12 FROM FLOOR

EVERY TRUSS

BEARING WALL PERPENDICULAR

TO TRUSSES (INTERIOR LOCATION)

-2x6 WALL STUDS, SP6 AT

EVERY SECOND WALL STUD

NAILS FOR WALL SHEATHING USE 8d MUST BE MIN .131"x2 12"

EDGES WILL NEED TO BE ATTACHED TO STUD AND OR BLOCKING AT ALL EDGES. A MINIMUM 1/8" SPACE IS RECOMMENDED BETWEEN PANELS AT EDGES AND END

SINGLE NAILED EDGE SHEATHING FASTENING SCHEDULE A) 2-ROWS 8d COMMON NAILS @ 4" O.C. B) 8d COMMON NAILS @ 6" O.C.

STAGGER ALL VERTICAL JOINTS: 8d COMMON NAILS @ 4" O.C. D PLYWOOD SPLICES @ HEADER -NAIL SHEATHING TO HEADER W/ 8d COMMON NAILS @ 4" O.C. (2) ROWS @ TOP AND BOTTOM (2) 8d NAILS @ 3" O.C. TO EACH TRUSS END OR @ VERTICAL MEMBER IF GABLE END.

DOOR JAMB LOCATION, IF JAMB -

AND CONNECT WITH (2) SIMPSON

DOES NOT FALL AT TRUSS LOCATION, PROVIDE DBL 2x6

BLOCKING BELOW FLOOR MIN.

MTS12 CONNECTORS

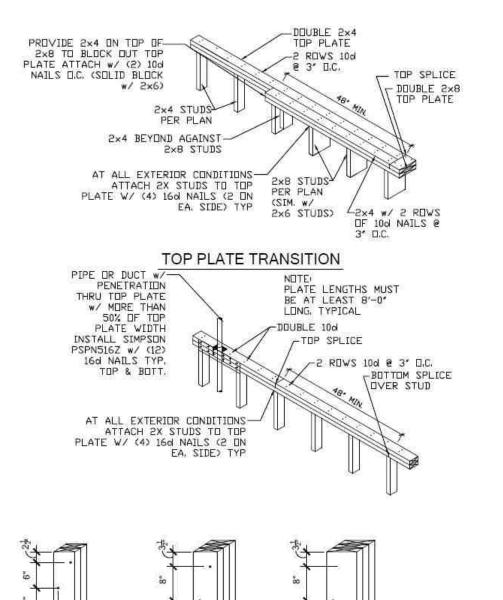
DOOR/OPENING

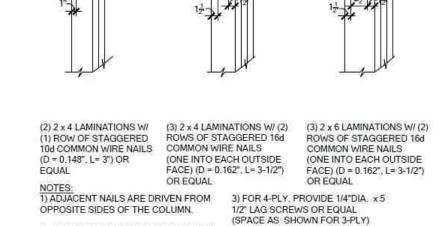
JAMB LOCATION



Door & Window Headers

FOR 2x8 STUD WALLS AT LOCATIONS CALLED OUT ON PLAN SHEETS, PROVIDE 2x8 SCHEDULE BOX HEADERS WITH HORIZONTAL 2x8 TOP AND BOTTOM SUBSTITUTE SP6 -3/16" LAG/SDS CONNECTORS WITH SP8s SCREW AT 16" O.C.





4) REFER TO NDS SECTION 15.3 FOR

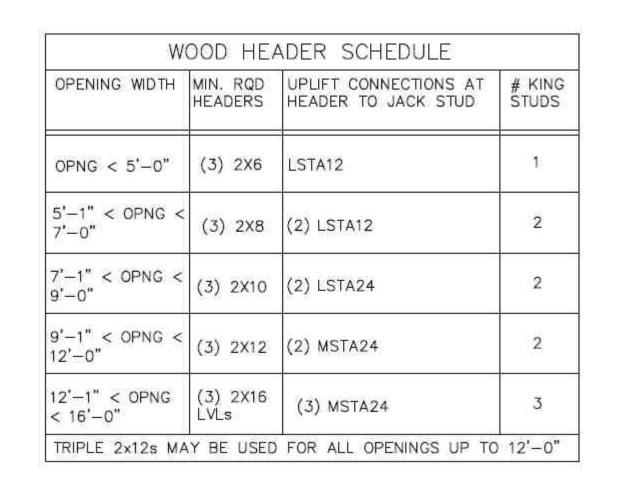
2) ALL NAILS PENETRATE AT LEAST 3/4"

TRUSS/LVL

CONNECT TO GIRDER TRUSS/LVL WITH (2) MTSA36 OR (2)HTS20, SOLID BLOCK IN GIRDER MEMBERS FOR

NAILING AS NECESSARY

OF THE THICKNESS OF THE LAST



12'-0" ADD HTT4 TO CONNECT

TO TOP OF CMU WALL

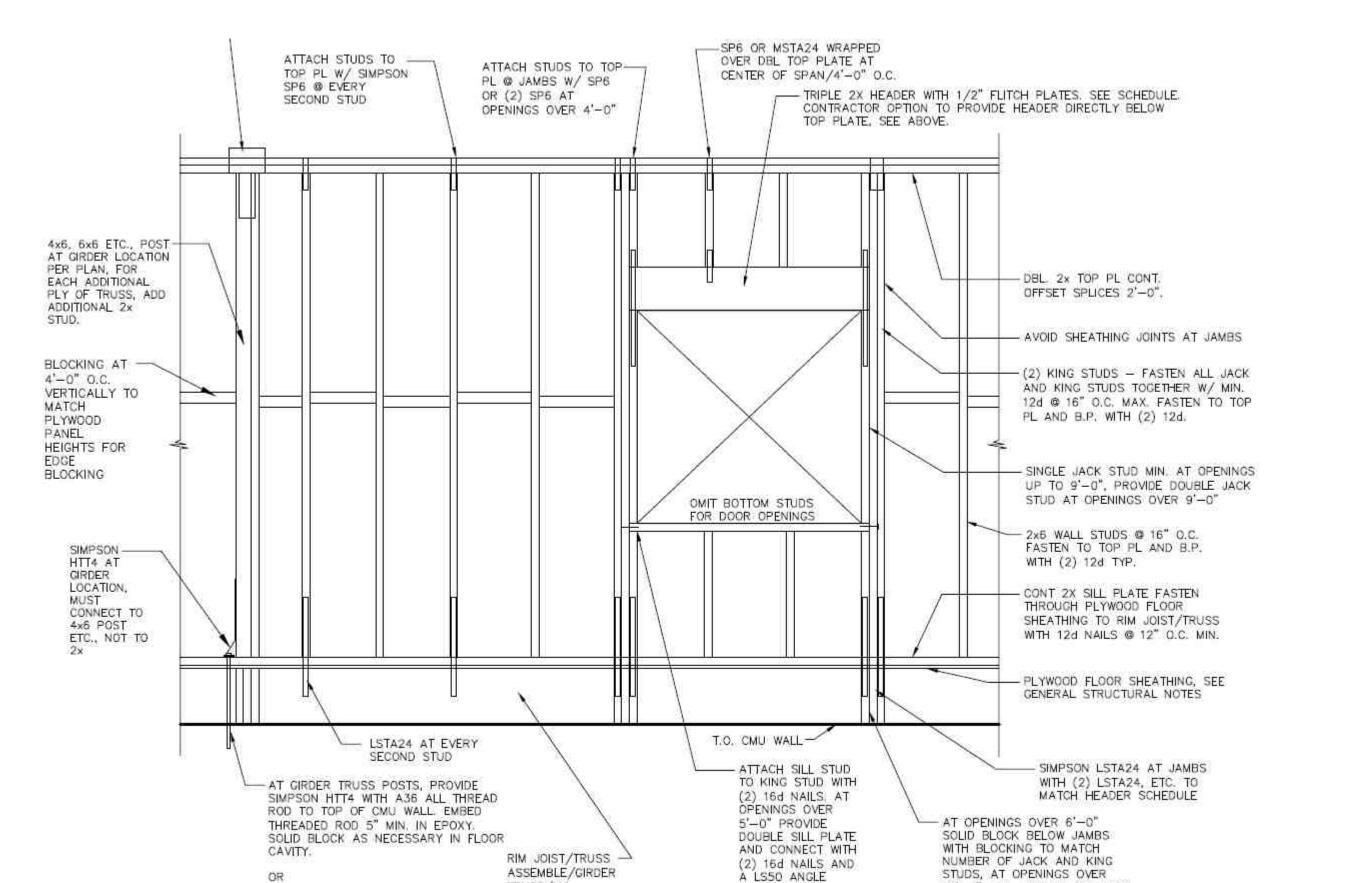
/(I) #5 VERT. REINF.

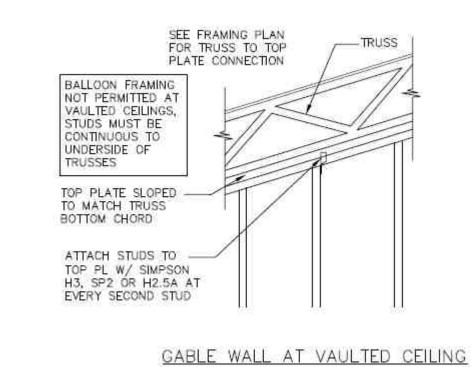
BOTTOM PLATE

ANCHOR W 2" WASHER

@ 48" O.C. (VERT.)

1/2" EXT. PLYMD.





*SIMPSON SP4 w/ (6) 10d x 1 1/2" - SP6 FOR 2"x6" WALLS, SP8 FOR 2"x8" WALLS

*SIMPSON SP2 w/ (6) 10d TO STUD & (6) 10d TO PLATE

TYP. FILLED CELL W/3000 P.S.I.

CONC. W/1 #5 REBAR VERT. (U.N.O.)

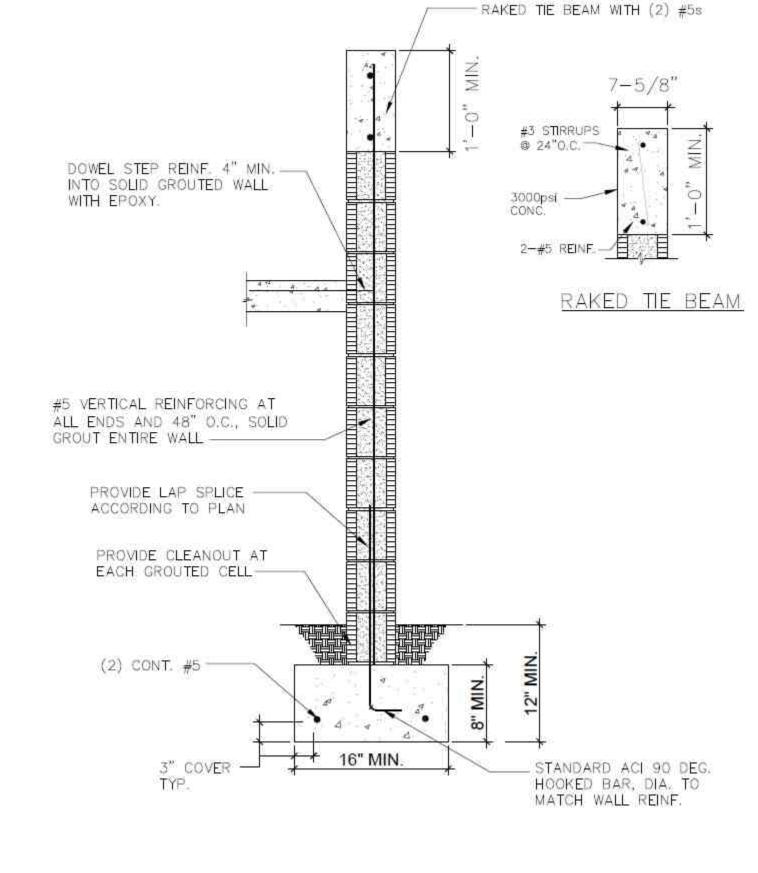
2"x #2 P.T. (AS PER PLANS) w/ 5/8" x 10" 'J BOLTS OR 5/8" x 10" EXPANSION ANCHORS w/ 2" x 3/16" PLATE WASHERS & NUTS @ 24" O.C. VERTICALLY OR (6) 1/4" x 3 1/4" TAPCONS @ 16" O.C. VERTICALLY

*SIMPSON SSP w/ (4) 10d x 1 1/2" TO STUD & (3) 10d x 1 1/2" TO PLATE

*SIMPSON SP1 w/ (6) 10d TO STUD & (4) 10d TO PLATE

2'x #2 P.T. (AS PER PLANS) w/ 5/8" x 10" 'J' BOLTS OR 5/8" x 10" EXPANSION ANCHORS w/ 2" x 3/16" PLATE WASHERS & NUTS @ 24" O.C. OR (6) 1/4" x 3 1/4" TAPCONS @ 16" O.C.

- DOUBLE 2"x TOP PLATE



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911 Wallace Ct.

407-585-1361

Design Criteria:

This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22.

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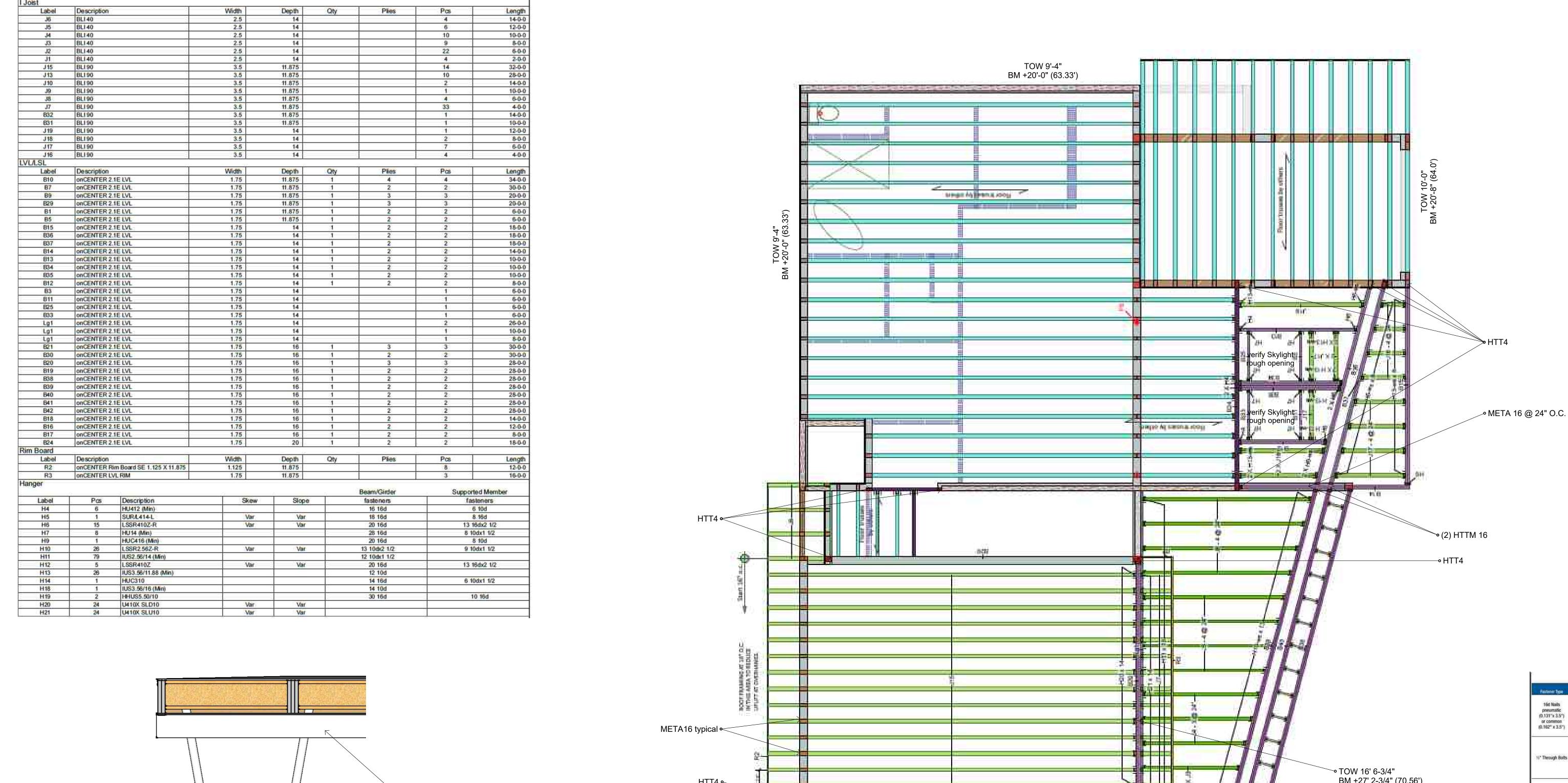
SS1 - Structural Details

groning6

Design Build

Date 09/22/25

Page 25 of 26



-STEEL PLATE

PL %"x9"x0'-7"

-TRIPLE LVL BEAM,

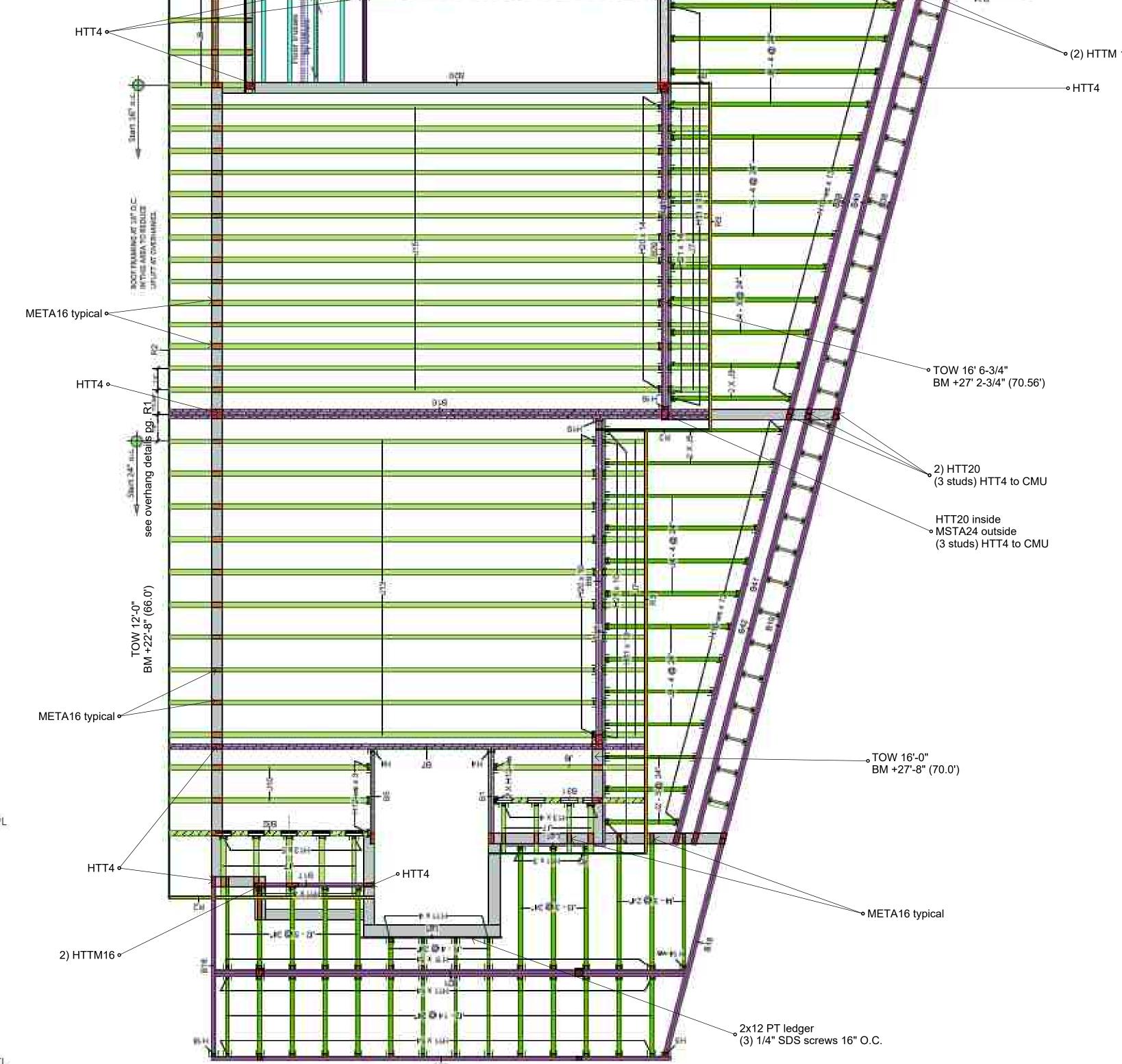
SEE PLAN

-STEEL PLATE PL 36"x9"x0'-8"

-STEEL PLATE PL %"x9"x0'-7"

-3/4" DIA. ANCHOR BOLTS





onCENTER® 2.1E LVL Multiple Ply Fastening These minimum requirements are adequate only when all loads are evenly applied to top surface of all piles. If loads are applied to side bosets of beam, are designer's pneumatic (0.131"x 3.5") 14" - 18" or common (0.162" x 3.5") 24" Top and bottom rows of connectors should be Fastening for depths less than 7%" requires special consideration. Contact BlueLinx. 1/2" Through Bolts Fasteners must have full embedment of shark, but must not be over-driven, over-Bolt holes must be 1/32* to 1/15* larger than bolt diameter. Blots must extend through hill thickness of member and at least ½* beyond. Use a washer under head and nut. 2/ Screw Length | 31/ Screw Length | 6' Screw Leng USP W5 or Simpson SDS Screws Speciage closer than those indicated may be acceptable, but require evaluation. Please contact filsel inx. Install screws per manufacturer's guidelines. Simpson SDW22 WSWH, TrussLOK, or FlatLOK Screws

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1. Verify tub and toilet locations.

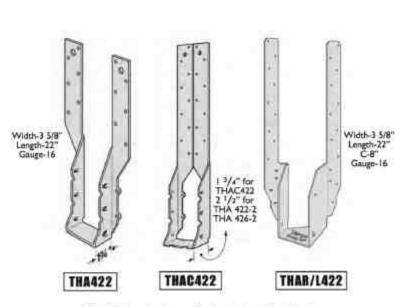
4. Provide AC duct chases.

2. Verify recessed can lighting locations.

3. Pre-install newel posts in the floor system.

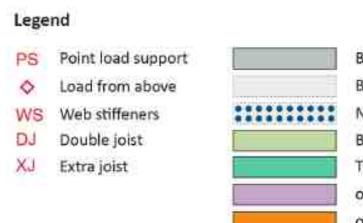
911 Wallace Ct.

407-585-1361

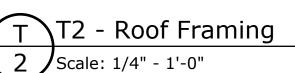












 Steel or Wood Beam? → 4" dia. pipe columns -TRIPLE LVL BEAM, 6"Ø STEEL PIPE-----STD COLUMN STEEL PLATE (BEYOND) PL %"x9"x0'-8"

THIRD FLOOR

(2)⅓" DIA. A325BOLTS — HORIZONTAL SPACING 4" (BEYOND) 6"Ø STEEL PIPE-STD COLUMN, SEE PLANS

(2)6"# STEEL PIPE STD COLUMN, SEE PLANS -

(2)2" DIA. A325BOLTS — HORIZONTAL SPACING 4"

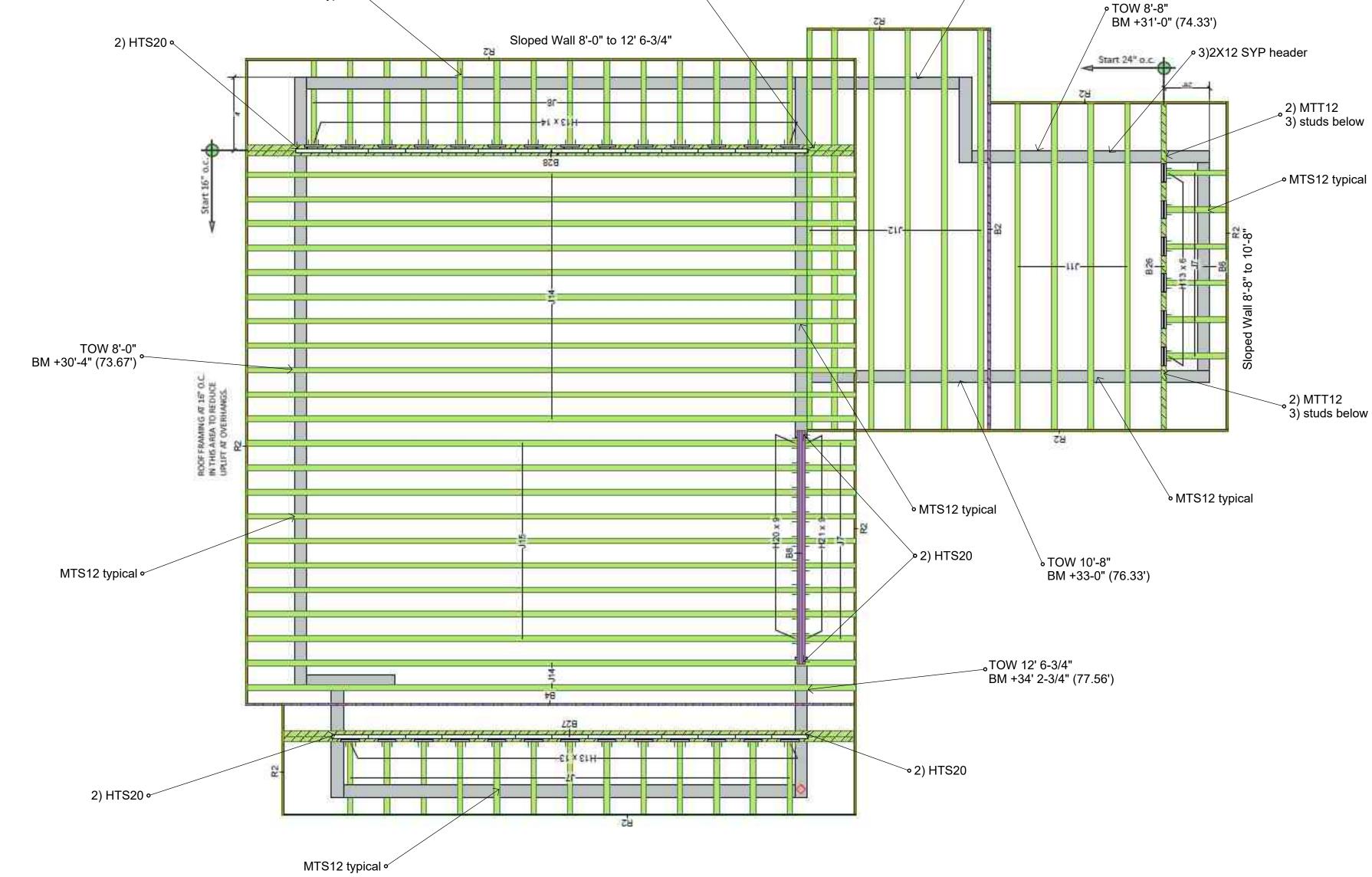
TOP VIEW

FRONT VIEW

(BEYOND)

09/22/25

ROOF Joist	uluber	ly E	harvasii Car Cifelee			No. 10 To 10	No. Contract to the Contract of the Contract o	
Label	Description		Width	Depth	Oty	Plies	Pcs	Length
314	BU 00		35	11.875			10	34-0-0
J15	BU 90		3.5	11,67.5		ii ii	9	02-0-0
./12	BU 90		3.5	11.875			6	240-0
211	86.1 00		3.5	11.875			4	20-0-0
	8U 10	8U 90		11,675			14	8-0-0
17	BU 90		3.5	11.875			28	40-6
B28	81 90		3.5	11.875	3.8	(32)	2	34-0-0
827	BU 90		3.5	11.875		2	2	32-0-0
606	BU 90	3	3.5	11:875	1		W [20-0-0
VULSL								
Label	Description		Whath	Depth	Qty	Plies	Pos	Length
84	ONCERITER 2 IE UVL		1.75	11.875	22000	E		34-0-0
B2	ONCENTER 2 TE LVL		1.75	11.875			3.	24-0-0
88	ON CENTER 2 1E LVL		1.75	11.875	11	- 3	3	140-6
Ð6	on CENTER 2.1E LVL		1.75	11.875		2	P	14-0-0
Rim Board								
Label	Description		Width	Depth	City	Plies	Pes	Langth
R2	on CENTER Sim Board SE 1.125 X: 11:875		1.125	11.875			18	12-0-0
langer	W.			940	£*.		Beam/Gin	der
Label	Pos	Description		Skov	M. J	Slope	Ensterner	8
H13	33	IUS3.56/11.88 (Mn)					12 104	
H20	9	U410X 8LD10		Var		Var	353556	
H21	9	U410X SEU 10		Var		Vac		



2) HTS20 ९

MTS12 typical o

TOW 8'-0" BM +30'-4" (73.67')

onCENTER® 2.1E LVL Multiple Ply Fastening only when all loads are evenly applied to pneumatic (0.131"x 3.5") or common (0.162" x 3.5") top surface of all plies. It loads are applied to side facets) of beam, see designer's Fastening for depths less than 7%" requires Through Bolts Fasteners must have full embedment of shark, but must not be over-driven, over-tightened, or occustersunk. Bolt holes must be 1/32" to 1/16" larger than: bolt diameter. Blots must extend through full thickness of member and at least ½" beyond. (shown) Use a worther under head and nut. Spacinus closer than those indicated may be acceptable, but require evaluation. Please contact filtret inx. Install screws per manufacturer's guidelines. BN'-1W' Screw Langth 5" Screw Langth Bn' Screw Longth Simpson SDW22

CONTRACTOR TO VERIFY TRUSS LAYOUT

DELIVERY OF TRUSSES MATCHES TRUSS

FRAMING PLAN SHOWN ON THIS SHEET AND

REPORT ANY DISCREPANCIES TO ENGINEER

OF RECORD, PRIOR TO BEGINNING WORK.

PLAN PROVIDED BY TRUSS COMPANY WITH

NOTES:

- TOP OF WALL ELEVATION/TRUSS BEARING ELEVATION, SEE ELEVATION SHEETS
- SEE GENERAL STRUCTURAL NOTES FOR ROOF
- 3 SEE DETAIL SHEETS FOR GABLE BRACING DETAIL
- AT ALL 2, 3, ETC. PLY TRUSS LOCATIONS, PROVIDE 2, 3, ETC. WALL STUDS TO MATCH, UNLESS 4x6 ETC. IS ALREADY SPECIFICALLY PROVIDED IN PLAN.

CALLOUT	CONNECTOR	ALLOWABLE UPLIFT LOAD	FASTENERS
TC1	META16	1450 LB	EMBEDDED, (8) 0.148"x1.5" NAILS TO TRUSS
TC2	META16 @ 4'-0" O.C.	1450 LB	EMBEDDED, (8) 0.148"x1.5" NAILS TO TRUSS
TC3	MTS12	990 LB	(14) 0.148"x1.5" NAILS
TC4	LSTA15 @ 4'-0" O.C.	1110 LB	(12) 0.148"x2.5" NAILS
TC5	H2.5A	575 LB	(10) 0.131"x2.5" NAILS
TC6	VCTR	370 LB	TRUSS (4) 0.148"x3", VALLEY (3) 0.148"x1.5"
TC7	MGT	3965 LB	(1)5/8" ATR 5", EMBED, TRUSS (22)0.148"x3"
TC8	HTS20	1310 LB	(24) 0.148"x1.5" NAILS
TC9	HTT4	4235 LB	(1)5/8" ATR 5", EMBED, TRUSS (18)0.162"x2.5"
TC10	HTT5	5090 LB	(1)5/8" ATR 5", EMBED, TRUSS (26)0.162"x2.5"
TC11	HTSM16	1110 LB	CMU-(4) 1/4"x2-1/4" TITEN, TRUSS (8) 0.148"x
TC12	MSTAM24	1375 LB	CMU-(5) 1/4"x2-1/4" TITEN, TRUSS (9) 0.148"x
TC13	(2)META16	1 PLY 1985 LB, 2PLY+ 1900 LB	EMBEDDED, (8) 0.148"x1.5" NAILS TO TRUSS
TC14	H2,5A	700 LB	(10) 0.148"x1.5" NAILS

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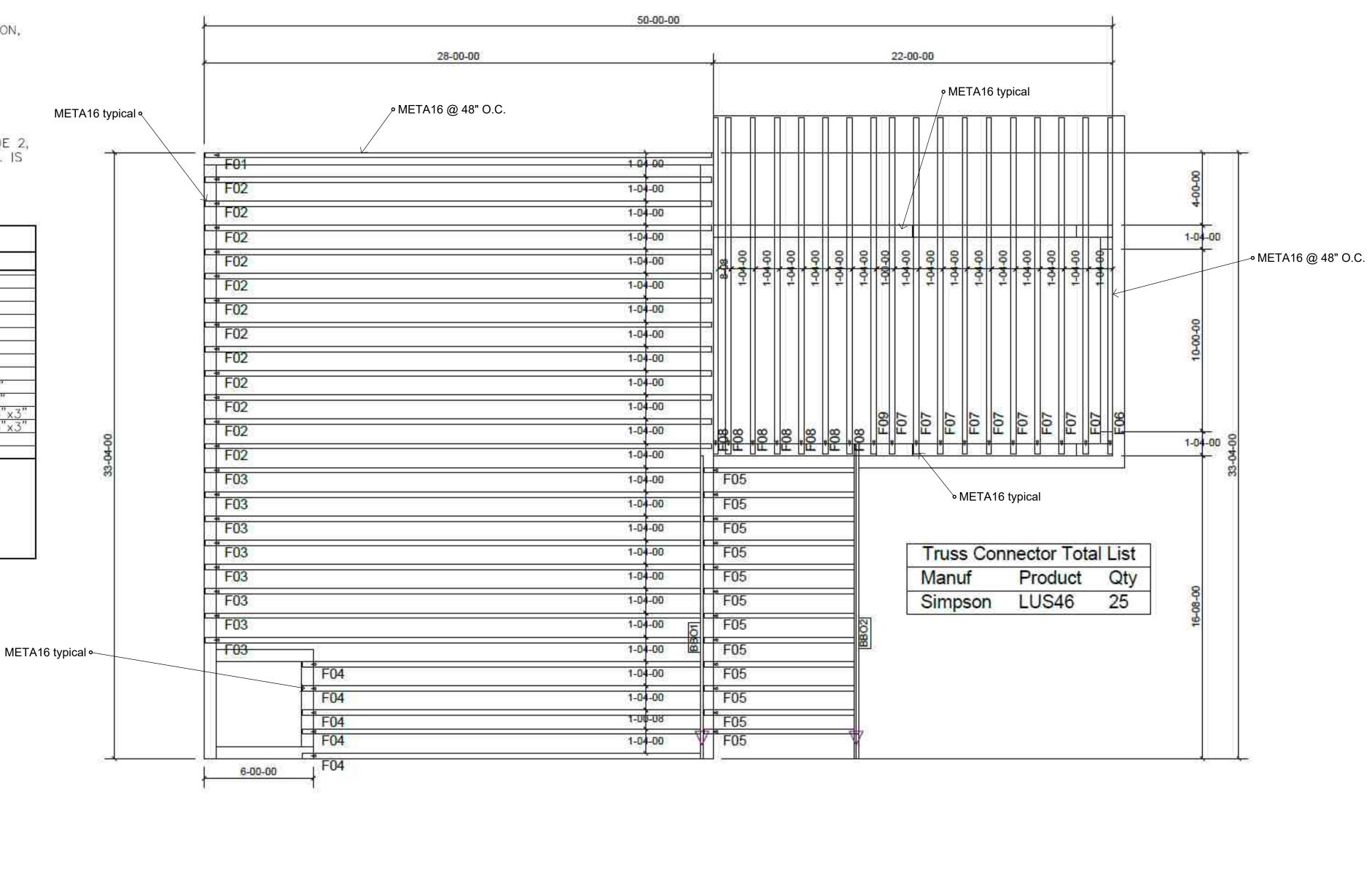
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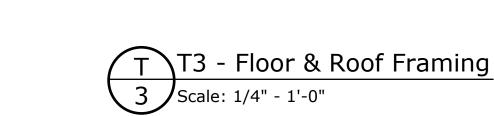
ALL TRUSS TO WOOD FRAME CONNECTIONS, MTS12 (TC3) U.N.O.

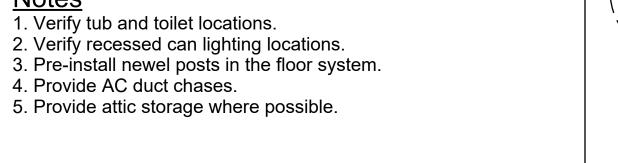
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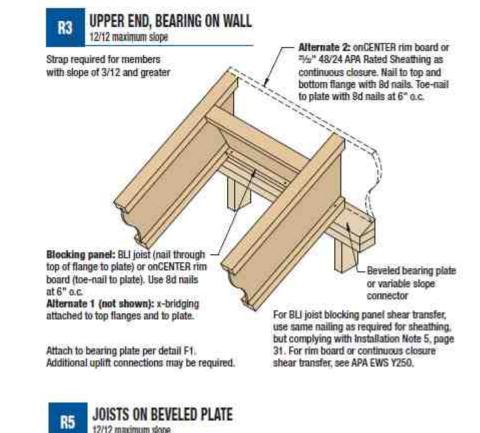
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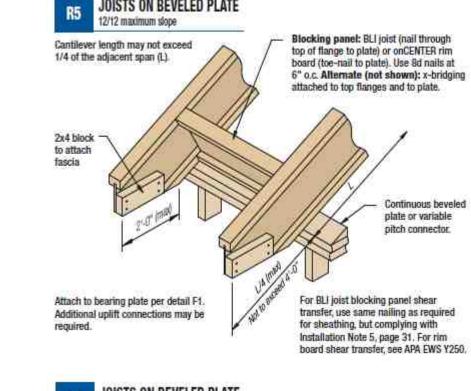
321-439-1047 cell

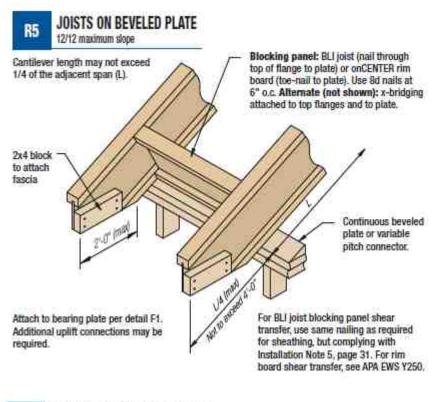
City of Lake Mary 911 Wallace Ct.

407-585-1361

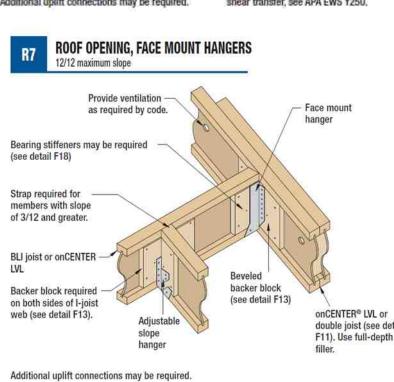
Lake Mary FL 32746

LakeMaryFL.com/building









onCENTER® LVL or double joist (see detail F11). Use full-depth

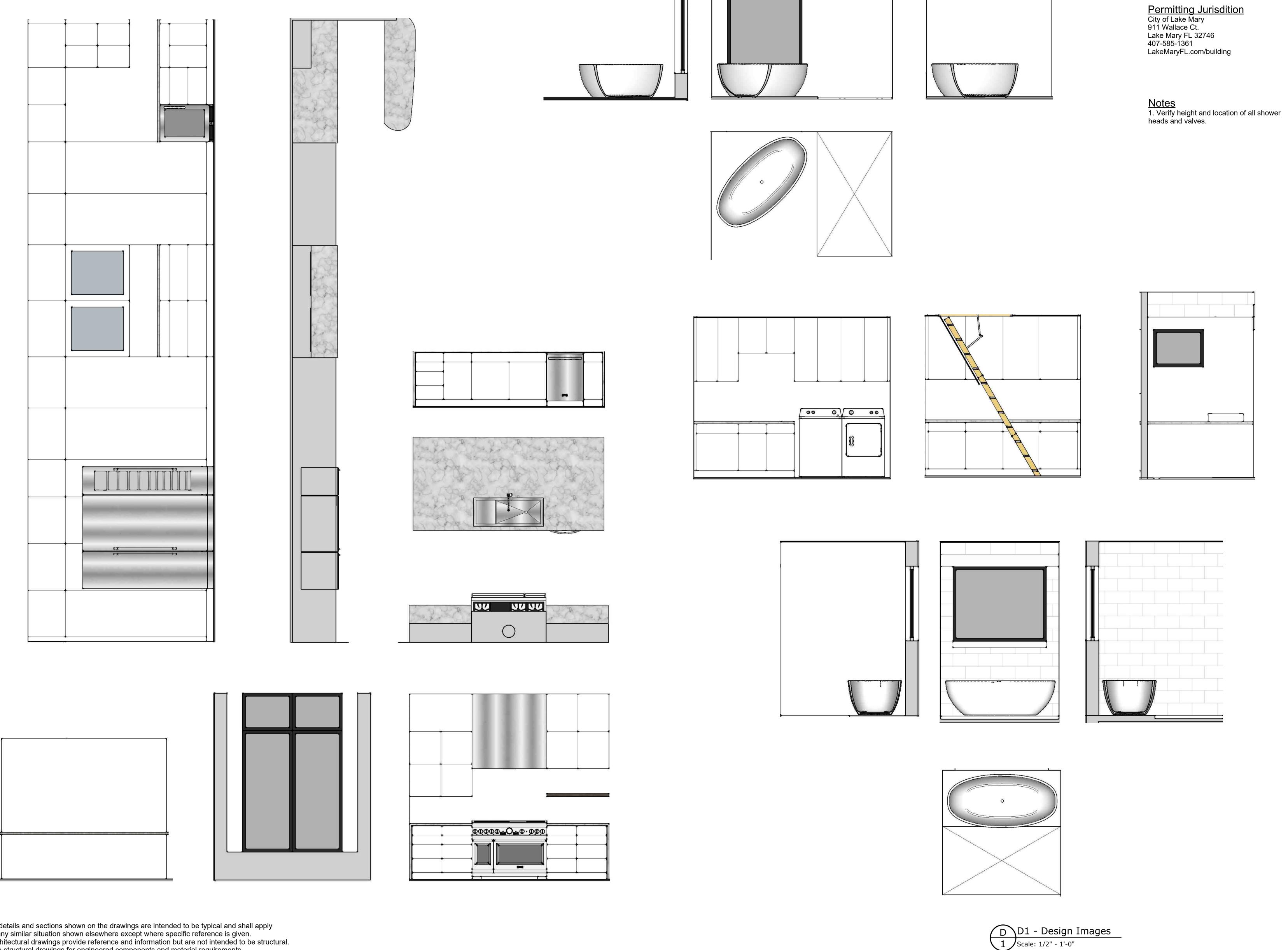
Page 26 of 26

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09/22/25 Page 27 of 26



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Permitting Jurisdition

Notes

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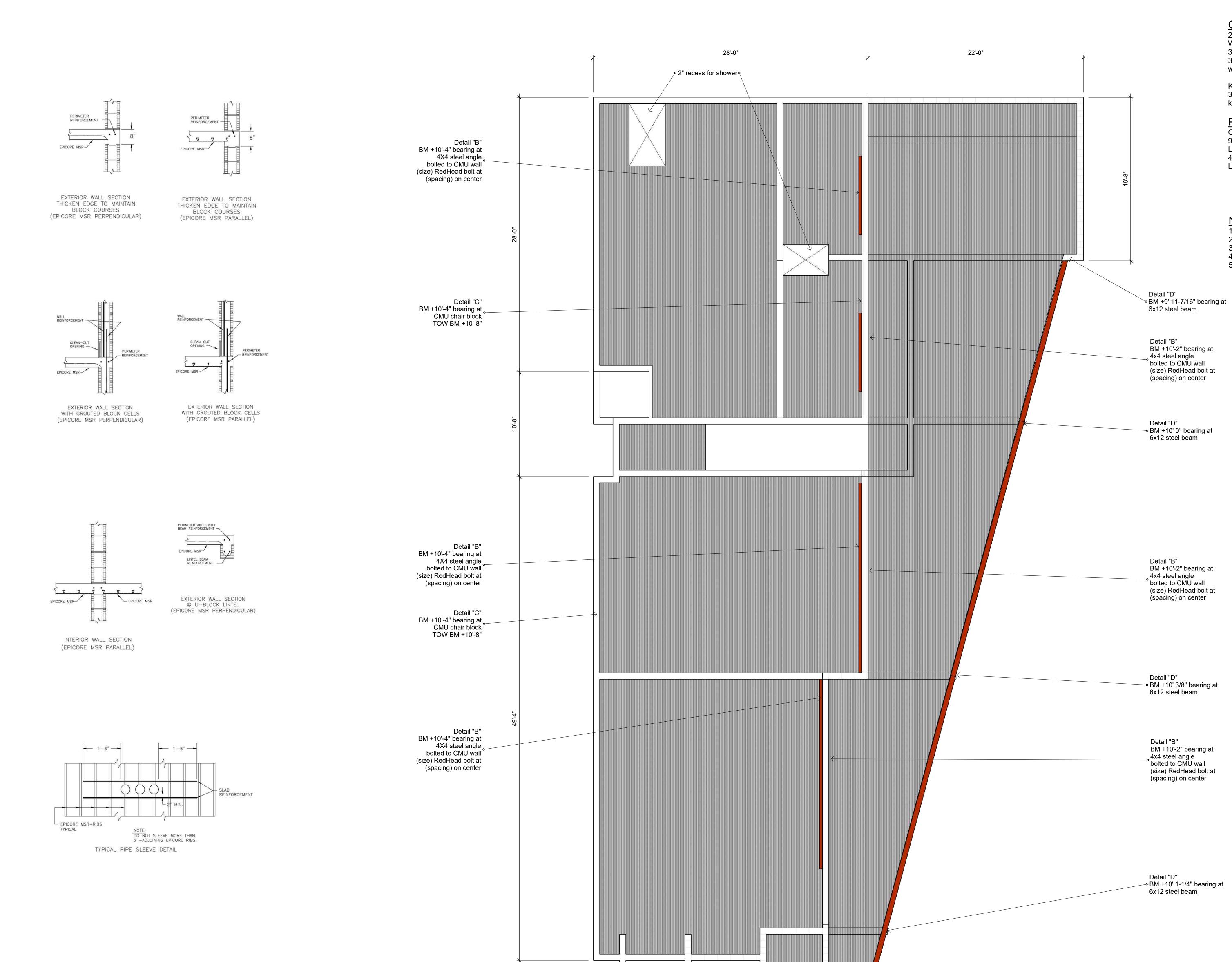
5. Provide attic storage where possible.

911 Wallace Ct. Lake Mary FL 32746 407-585-1361 LakeMaryFL.com/building

<u>ත</u> වි

groninge Design Build (

Page 28 of 26



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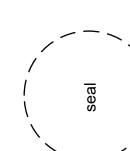
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Home Design LLC Voodside Avenue Park FL 32789 :39-1047





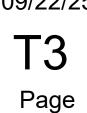
Carson Res Lot 13 Evansdale 3 153 Old Park Way

groningerhomes.com

Design Build Consult

Date 09/22/25

T2Page
29 of 26



TOW 8'-0" BM +30'-4" (73.67') ° TOW 8'-8" BM +31'-0" (74.33') Sloped Wall 8'-0" to 12' 6-3/4" ∘ 3)2X12 SYP header 2) 1.75X11-7/8 LVL header TOW 8'-0" BM +30'-4" (73.67') 1-1/8X11-7/8 rim board ⊶ 3)2X12 SYP header 2.5X11-7/8 I-joists @24" O.C. ⊶ √ TOW 10'-8" BM +33-0" (76.33') → 3) 1.75X11-7/8 LVL → 1.75X11-7/8 I-joists @24" O.C. _oTOW 12' 6-3/4" BM +34' 2-3/4" (77.56') → 1.75X11-7/8 structural fascia — 1-1/8X11-7/8 rim board

NOTES:

PLAN PROVIDED BY TRUSS COMPANY WITH DELIVERY OF TRUSSES MATCHES TRUSS FRAMING PLAN SHOWN ON THIS SHEET AND

- TOP OF WALL ELEVATION/TRUSS BEARING ELEVATION, SEE ELEVATION SHEETS
- SEE GENERAL STRUCTURAL NOTES FOR ROOF SHEATHING.
- 3 SEE DETAIL SHEETS FOR GABLE BRACING DETAIL
- AT ALL 2, 3, ETC. PLY TRUSS LOCATIONS, PROVIDE 2, 3, ETC. WALL STUDS TO MATCH, UNLESS 4x6 ETC. IS ALREADY SPECIFICALLY PROVIDED IN PLAN.

CALLOUT	CONNECTOR	ALLOWABLE UPLIFT LOAD	FASTENERS
TC1	META16	1450 LB	EMBEDDED, (8) 0.148"x1.5" NAILS TO TRUSS
TC2	META16 @ 4'-0" O.C.	1450 LB	EMBEDDED, (8) 0.148"x1.5" NAILS TO TRUSS
TC3	MTS12	990 LB	(14) 0.148"x1,5" NAILS
TC4	LSTA15 @ 4'-0" O.C.	1110 LB	(12) 0.148"x2.5" NAILS
TC5	H2.5A	575 LB	(10) 0.131"x2.5" NAILS
TC6	VCTR	370 LB	TRUSS (4) 0.148"x3", VALLEY (3) 0.148"x1.5"
TC7	MGT	3965 LB	(1)5/8" ATR 5", EMBED, TRUSS (22)0.148"x3"
TC8	HTS20	1310 LB	(24) 0.148"x1.5" NAILS
TC9	HTT4	4235 LB	(1)5/8" ATR 5", EMBED, TRUSS (18)0.162"x2.5
TC10	HTT5	5090 LB	(1)5/8" ATR 5", EMBED, TRUSS (26)0.162"x2.5
TC11	HTSM16	1110 LB	CMU-(4) 1/4"x2-1/4" TITEN, TRUSS (8) 0.148
TC12	MSTAM24	1375 LB	CMU-(5) 1/4"x2-1/4" TITEN, TRUSS (9) 0.148
TC13	(2)META16	1 PLY 1985 LB, 2PLY+ 1900 LB	EMBEDDED, (8) 0.148"x1.5" NAILS TO TRUSS
TC14	H2.5A	700 LB	(10) 0.148"x1,5" NAILS

ALL TRUSS TO CMU CONNECTIONS, META16 (TC1) U.N.O. ALL TRUSS TO WOOD FRAME CONNECTIONS, MTS12 (TC3) U.N.O.

CONTRACTOR TO VERIFY TRUSS LAYOUT

REPORT ANY DISCREPANCIES TO ENGINEER OF RECORD, PRIOR TO BEGINNING WORK.

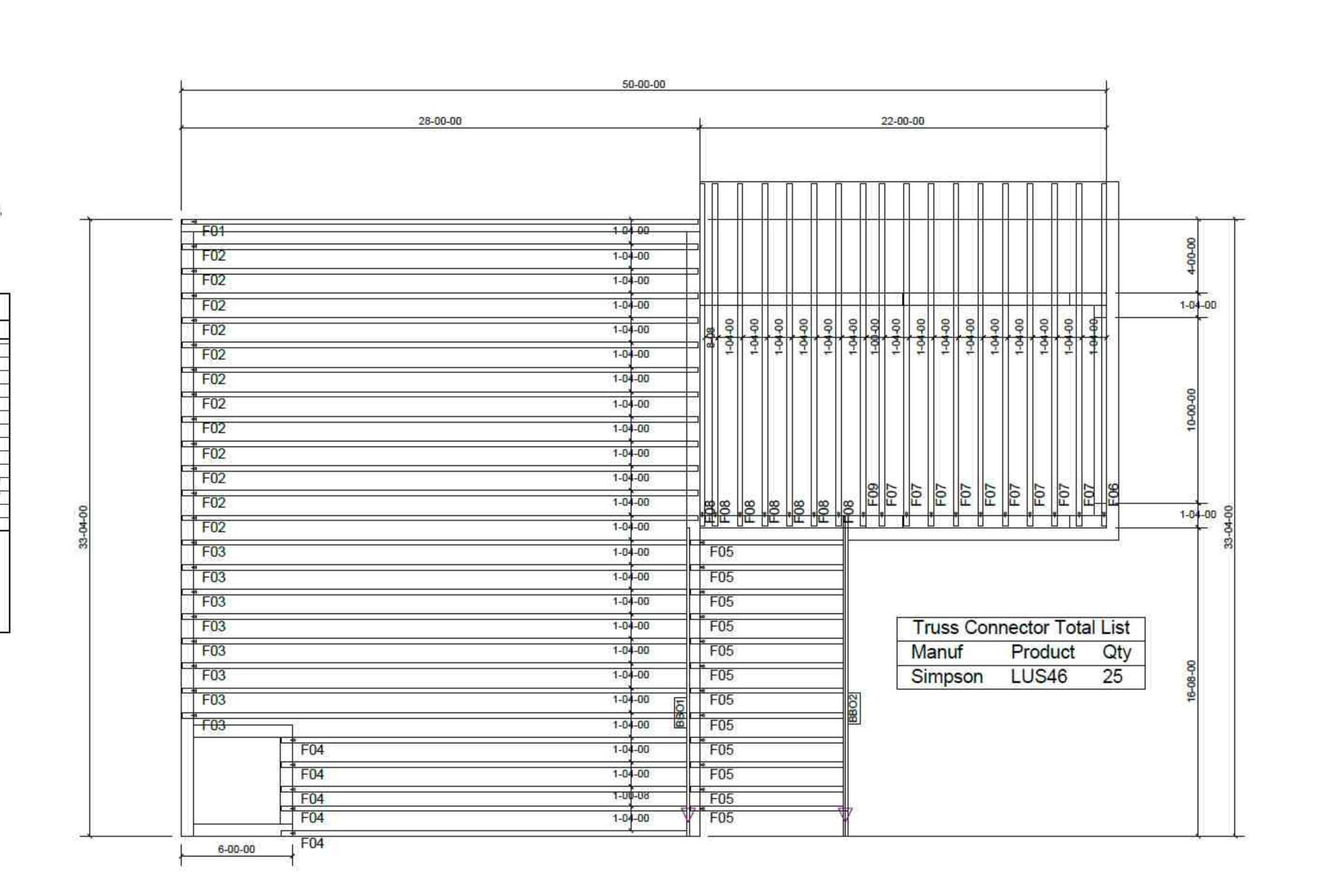
Design Criteria: This structure has been designed to meet or exceed the wind load requirements of the 2023 Florida Building Code Residential 8th Edition Section R301 Design Criteria and ASCE 7-22.

- Risk Category 2
 Construction Type = Single Family Residential (V)
 Wind Speed = 139 MPH Ultimate Wind Speed (Vult) and 108 MPH (Vasd)

- Wind Exposure = Category C
 Internal Pressure Coefficient for Enclosed Buildings is 0.18 and Height & Exposure Adjustment Coefficient is 1.40

Design Loads per FRBC 2023 edition Shingle Roof dead load = 17psf Building is not in an airborne debris area

All details and sections shown on the drawings are intended to be typical and shall apply to any similar situation shown elsewhere except where specific reference is given. Architectural drawings provide reference and information but are not intended to be structural. See structural drawings for engineered components and material requirements.



Cantilever length may not exceed 1/4 of the adjacent span (L).

2x4 block — to attach fascia plate or variable Attach to bearing plate per detail F1. For BLI joist blocking panel shear Additional uplift connections may be transfer, use same nailing as required for sheathing, but complying with

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1. Verify tub and toilet locations.

4. Provide AC duct chases.

2. Verify recessed can lighting locations.

5. Provide attic storage where possible.

3. Pre-install newel posts in the floor system.

Blocking panel: BLI joist (nail through

top of flange to plate) or onCENTER rim

attached to top flanges and to plate.

board (toe-nail to plate). Use 8d nails at 6" o.c. Alternate (not shown): x-bridging

Installation Note 5, page 31. For rim board shear transfer, see APA EWS Y250,

shear transfer, see APA EWS Y250.

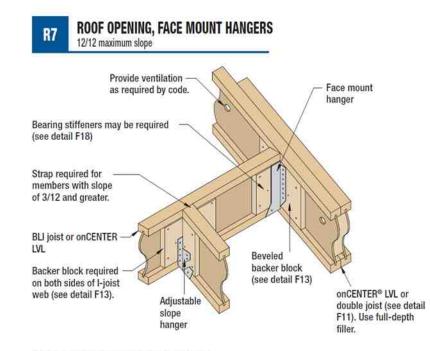
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Permitting Jurisdition

R3 UPPER END, BEARING ON WALL Strap required for members "/u" 48/24 APA Rated Sheathing as with slope of 3/12 and greater continuous closure. Nail to top and bottom flange with 8d nails. Toe-nail to plate with 8d nails at 6" o.c. Blocking panel: BLI joist (nail through top of flange to plate) or onCENTER rim board (toe-nail to plate). Use 8d nails or variable slope at 6" o.c. Alternate 1 (not shown): x-bridging For BLI joist blocking panel shear transfer, attached to top flanges and to plate. use same nailing as required for sheathing, but complying with Installation Note 5, page



Additional uplift connections may be required.

Attach to bearing plate per detail F1. Additional uplift connections may be required.

T T3 archive

Date 09/22/25

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