WIND ANALYSIS -- 130MPH Wind Velocity or as interpolated

2023 8th edition Florida Building Code

Calculations as per Section 1609ASCE 7-22

Prepared By James Zaleski PE 51544

Contractor Americas Homeplace Prepared by (print legibly): ___<u>James Zaleski</u>

Design Professional FL Lic. #:__51544_

Importance factor: 1.0 Building Category: ENCLOSED

Wind Exposure (s): B Internal Pressure Coefficient Risk Category II

+/-.18

Mean Roof Height 14.79 End Zone Length 6.0 feet

MAX OVERHANG 2.0 FT

MANUFACTURED TRUSSES TO BE USED

Roof Slope =-7/12

Two SIMPSON SDWC 15600 6" SCREW PER TRUSS BEARING MAY BE USED IN LIEU OF

1 SIMPSON SDWC 15600 6" SCREW PER TRUSS BEARING MAY BE USED IN LIEU OF

TRUSS SPAN/LOCATION HURRICANE CLIPS

HC MODEL-1 Simpson H-10A IN ALL AREAS

2 – H2.5A CAN BE USED IN LIEU OF 1-H-10A

ROOF SHEATHING MATERIAL -7/16" OSB

NAILING - 8D RING SHANK

NAILING PATTERN

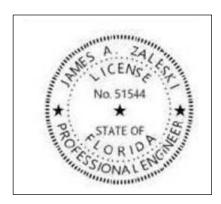
EDGES-

6" O.C FIELD - 6" O.C

EDGE SPACING TO BE 4" O.C ON THE FIRST PANEL AT ALL EAVES

432 SE STARDUST PL. LAKE CITY FL

SAULS HOME



James A Zaleski Zaleski

Date: 2024.12.14

21:33:40 -05'00'

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Job Address:	to the seal. Printed copies of the	is document are not considere	d signed and sealed and	I the signature must be verified	on electronic copies.

Plan May Be Mirrored at Contractors Option

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Wall Exterior Panel – Sheath with 7/16" OSB

- 2 X 4 STUDS AT 16" O.C. UP TO 9 FEET
- 2 X 4 STUDS AT 12" O.C. UP TO 11 FEET
- 2 X 6 STUDS AT 16" O.C. UP TO 16 FEET

ALL WALLS OVER 10 FEET TO HAVE 2 ROWS OF BLOCKING

POSTS USE SIMPSON ABU BASE WITH 2-LSTA24 STRAPS AT TOP AND 2 SIMPSON SDWC 15600 SCREWS FROM POST TO BEAM

MIN NAIL PENETRATION - 1-1/2"

Nail Type 8D

Edge Nail Spacing 4" o.c

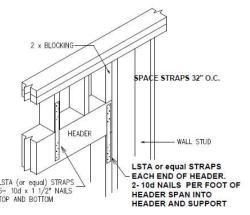
Intermediate Nail Spacing 8" o.c

SIMPSON SDWC15600 SCREWS AT THE TOP OF STUDS AND SIMPSON SDWC15450 SCREWS AT THE BOTTOM OF STUDS AT ALL CORNERS AND 48" O.C

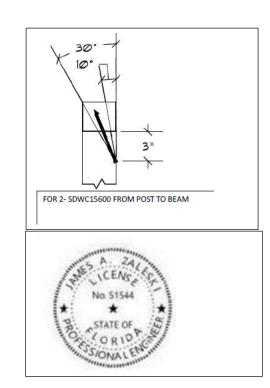
SIMPSON SPH STRAPS MAY BE USED IN LIEU OF SCREWS

½ X 10 ANCHORBOLT 48" O.C AND 6 INCHES FROM EACH CORNER

BEAM TO WALL/CORNER CONNECTION - POCKET AND NAIL INTO WALL W/ (10) 16 PENNY NAILS, STRAP W/ SIMPSON H7Z.







James Zaleski PE #51544 2305 Haverhill Rd Tall Fl 32312 ph 850-766-7778

James A Digitally signed by James A Zaleski Date: 2024.12.14

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COMPONENTS AND CLADDING PRESSURES: (WORST CASE LOADS MAY BE USED) COMPONENTS AND

CLADDING

ZONE per

SEE ATTACHED

MAIN WIND FORCE RESISTING SYSTEMS (MWFRS) (WORST CASE LOADS MAY BE USED)

SEE ATTACHED

All Load Bearing and Shear Walls To be Framed as per FBC
Alternative Hurricane Clips are acceptable as long as they meet the requirements shown

See Attached header schedule

PROVIDE GABLE END BRACING DETAIL, all vaulted or high ceilings shall be balloon framed to the ceiling diaphram.

NOTES: PLEASE READ & complete all blanks!!!!

- 1. See floor plan for wall bracing locations or circle 100% if structural sheathing is required on <u>all</u> exterior walls, with the nailing pattern indicated above.
- 2. There are $\underline{}$, there are not $\underline{\underline{X}}$ interior shear walls, locate interior shear walls on plan.
- 3. Gable ends required to be sheathed with same material as shear wall? Yes or No circle one)
- **4.** Wall sheathing used in lieu of vertical straps: Nailing @ N/A o.c. along top & bottom plates
- 5. Provide detail for 2 story bldgs showing continuous load path between 2nd floor stud & 1st floor studs.
- 6. Provide additional information for column base & column/beam connection if required for porches.
- 7. Provide calculations or documentation to substantiate method used as an attachment to this form(SEE PLANS)

Instructions:

- 1. The form should be completed & signed, sealed & dated by a Fla. licensed engineer or architect.
- 2. Since more than one methodology for determination of wind forces is permitted under Section 1609ASCE7-22, to comply with State Building Codes a space has been provided to indicate method used.
 - 3. Wind Analysis Forms submitted & permitted to be used as Master Plans will be for identical plans only, minor deviations such as door swings. Any deviation from the exterior form, opening sizes or locations will not be permitted unless noted by the design professional.

James A James A Zaleski Date:

Zaleski 2024.12.14
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MecaWind v2502

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Calculations Prepared by:

JAMES ZALESKI P.E 51544 2305 HAVERHILL RD TALLAHASSEE, FL, 32312 Date: Dec 14, 2024

File Location: Current Project Not Saved

OH

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Reference Abbreviations: T: Table, F: Figure, E: Equation, §: Section
Wind Load Standard
                                      = ASCE 7-22
                                                         Basic Wind Speed
                                                                                                  = 130.0 \text{ mph}
                                       = B
Exposure Classification
                                                          Risk Category
                                                                                                 = II
                                       = Building
                                                          Design Basis for Wind Pressures
                                                                                                 = ASD
MWFRS Analysis Method
Structure Type
                                       = Ch 27
                                                          C&C Analysis Method
                                                                                                 = Ch 30 Pt 1
Dynamic Type of Structure
                                      = Rigid
                                                         Show Advanced Options
                                                                                                 = False
Building:
Roof = Roof Type
                                       = Gabled
                                                         | Encl = Enclosure Classification = Enclosed
                                                          R_{\text{Ht}} = Ridge Height = 20.522 ft W = Building Width = 35.333 ft
Help = Help on Building Roof Type = Help
     = Eave Height
= Building Length
                                       = 9.050 ft
\mathrm{E}_{\text{Ht}}
                                      = 52.000 ft
                                                          OH = Overhang Configuration = 7.0 :12 

Z_i = Highest Opening Elevation = 7.0000 ft 

C_{i} = Mean Roof Height = 14.786 ft 

C_{i} = Override C_{i} value = False
                                                          Pitch = Pitch of Roof
                                                                                                 = 7.0 :12
                                       = 30.256 °
= None
θ
      = Slope of Roof
Par = Parapet
\mathrm{HT}_{\mathrm{over}} = Override Mean Roof Height = False
RA<sub>over</sub> = Override Roof Area = False
IsElev = Building is Elevated = False
Exposure Constants [T:26.11-1]:
\alpha = 3-s Gust-speed exponent = 7.500
                                                         Z_g = Nominal Ht of Boundary Layer = 3280.000 ft
\hat{a} = Reciprocal of \alpha
                                       = 0.133
                                                          b = 3 sec gust speed factor
                                                                                                 = 0.840
                                                          b_m = Mean hourly Windspeed Exponent = 0.470
\alpha_m = Mean hourly Wind-Speed Exponent = 0.222
c = Turbulence Intensity Factor = 0.300
                                                         \varepsilon = Integral Length Scale Exponent = 0.3333
Overhang Inputs:
Std = Overhangs on all sides are the same
                                                                                               = True
OHType
           = Type of Roof Wall Intersections
                                                                                               = Soffit
```

Main Wind Force Resisting System (MWFRS) Wind Calculations per Ch 27



= Overhang of Roof Beyond Wall

James A Zaleski /

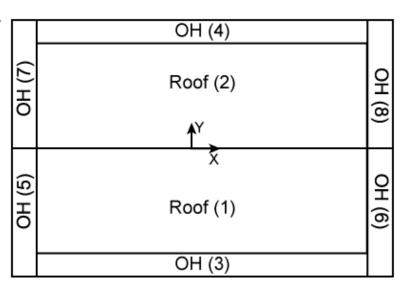
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= 2.000 ft

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Wind Parallel to Ridge





Wind Normal to Ridge

= 14.786 ft h = Mean structure height K_{zt} = No Topographic Feature = 1.000 GC_{pi} = ± Internal Press Coef $_{\text{T:26.13-1}}$ $= \pm 0.18$ $K_e = Ground Elev Factor_{T:26.10-1}$ = 1.000 q_{in} = Negative Internal Pressure: q_h = 14.87 psf $= 2,550.01 \text{ ft}^2$ $A_{roof} = Roof Area$

 $K_h = 2.41 \cdot (15/Z_g)^{2/\alpha}_{T:26.10-1}$ = 0.573 K_d = Directionality Factor $_{\text{T:26.6-1}}$ = 0.85 LF = ASD Load Factor = 0.60 $q_h = .00256 \bullet K_h \bullet K_{zt} \bullet K_e \bullet V^2 \bullet LF_{E:26.10-1}$ = 14.87 psf $q_{ip} = For +GC_{pi} use q_h$ = 14.87 psf

MWFRS Wind Loads [Normal to Ridge]

h = Mean Roof Height of Building = 14.7861 ft B = Building Width Normal To Wind = 52.0000 ft L/B = Ratio: L/B= 0.679= 30.26 ° θ = Slope of Roof Cpww = Windward Wall Coefficient = 0.800 Cpsw = Side Wall Coefficient = -0.700

 R_{Ht} = Ridge Height Of Roof = 20.5221 ft L = Building Width Parallel To Wind = 35.3330 ft h/L = Ratio: h/L= 0.418 $G = Gust Factor: Min(G_1, G_2)$ = 0.850 = -0.500 Cp_{LW} = Leeward Wall Coefficient

Wall Wind Pressures [Normal to Ridge]

All wind pressures include a Load Factor (LF) of 0.6

Elev	GC _{pi}	\mathbf{q}_{i}	Kz	Kzt	$\mathbf{q}_{\mathbf{z}}$	Windward	Leeward	Side	Total	Minimum
	_					Press	Press	Press	Press	Pressure*
ft		psf			psf	psf	psf	psf	psf	psf
9.050	+0.18	14.87	0.573	1.000	14.87	6.32	-7.65	-9.80	13.97	9.60
9.050	-0.18	14.87	0.573	1.000	14.87	10.87	-3.10	-5.25	13.97	9.60

= $2.41 \cdot (15/Z_q)^{2/\alpha}$ GC_{pi} = +Internal Coef T:26.13-1

= For $+GC_{pi}$ use q_h Side

= $q_h \cdot K_d \cdot G \cdot Cp_{SW} - q_{ip} \cdot K_d \cdot (GC_{pi+})$ E:27.3-1 Windward = $q_z \cdot K_d \cdot G \cdot Cp_{WW} - q_{ip} \cdot K_d \cdot (GC_{pi+})$ E:27.3-1 = Pressure Acting Toward Surface +Press §27.1.5

= MWFRS Min Wall Pressure = 9.60 psf

= No Topographic Feature = .00256 • K_z • K_{zt} • K_e • V^2 • $LF_{E:26.10-1}$ q_z = Negative Internal Pressure: qh q_{in} Leeward = $q_h \cdot K_d \cdot G \cdot Cp_{LW} - q_{ip} \cdot K_d \cdot (GC_{pi+})$ E:27.3-1

Total = Windward - Leeward

-Press = Pressure Acting Away from Surface

Roof Wind Pressures [Normal to Ridge]

All wind pressures include a Load Factor (LF) of 0.6

All wind pressures include a Load Factor (LF) or 0.0												
Component	Description	Location	Start	End	Θ	Basis	GCpi	C_{pMin}	C _{pMax}	Pmin	$\mathbf{P}_{\mathtt{max}}$	Pmin
			ft	ft	۰					psf	psf	psf
Overhang	Leeward	7,8	All	All	30.26	N	0	-0.6	-0.6	-6.45	-6.45	4.80
Overhang	Windward	5,6	All	All	30.26	N	0	0.238	-0.197	2.55	-2.11	4.80
Overhang	Leeward	4	All	All	30.26	N	+0.18	-0.6	-0.6	-8.72	-8.72	4.80
Overhang	Windward	3	All	All	30.26	N	+0.18	0.238	-0.197	0.28	-4.39	4.80
Roof	Leeward	2	All	All	30.26	N	+0.18	-0.6	-0.6	-8.72	-8.72	4.80
Roof	Windward	1	All	All	30.26	N	+0.18	0.238	-0.197	0.28	-4.39	4.80
Soffit	Bottom	3	All	All	0.0	N/A	+0.18	0.8	0.8	6.32	6.32	4.80
Overhang	Leeward	4	All	All	30.26	N	-0.18	-0.6	-0.6	-4.17	-4.17	4.80

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Overhang	Windward	3	All	All	30.26	N	-0.18	0.238	-0.197	4.83	0.16	4.80
Roof	Leeward	2	All	All	30.26	N	-0.18	-0.6	-0.6	-4.17	-4.17	4.80
Roof	Windward	1	All	All	30.26	N	-0.18	0.238	-0.197	4.83	0.16	4.80
Soffit	Bottom	3	All	All	0.0	N/A	-0.18	0.8	0.8	10.87	10.87	4.80

Roof Pressures based upon Ch 27:

Component = The building component for pressures = Start Dist from Windward Edge = Smallest Coefficient Magnitude

 C_{pMin} P_{min} $= \ q_h \bullet K_d \bullet G \bullet C_{pMin} - q_{ip} \bullet K_d \bullet GC_{piE:27.3-1}$

= +Internal Coef T:26.13-1 GC_{pi}

 P_{min} = Min Press projected on vertical plane §27.1.5 §27.1.5 = MWFRS Min Wall Pressure = 9.60 psf -Press = Pressure Acting Away from Surface

Location = Reference Graphic in Output for Values

End = End Dist from Windward Edge = Largest Coefficient Magnitude C_{pMax} P_{\max} $= q_h \bullet K_d \bullet G \bullet C_{pMax} - q_{in} \bullet K_d \bullet GC_{piE:27.3-1}$

Basis = P=Parallel to Ridge: N=Normal to Ridge

θ = Roof Slope Relative to Wind +Press = Pressure Acting Toward Surface

 $\bullet \ \, \text{The smaller uplift pressures due to } C_{\text{pMin}} \ \text{can become critical when wind is combined} \quad \text{with roof live load or snow} \\$ load; load combinations are given in ASCE 7

MWFRS Wind Loads [Parallel to Ridge]

h = Mean Roof Height of Building = 14.7861 ftB = Building Width Normal To Wind = 35.3330 ft L/B = Ratio: L/B1.472 h/L = Ratio: h/L= 30.26 ° θ = Slope of Roof Cpww = Windward Wall Coefficient = 0.800Cpsw = Side Wall Coefficient -0.700

R_{Ht} = Ridge Height Of Roof = 20.5221 ft L = Building Width Parallel To Wind = 52.0000 ft= 0.284

 $G = Gust Factor: Min(G_1, G_2)$ = 0.850Cp_{LW} = Leeward Wall Coefficient = -0.406

Wall Wind Pressures [Parallel to Ridge]

All wind pressures include a Load Factor (LF) of 0.6

No. 51544

Elev	GC_{pi}	\mathbf{q}_{i}	Kz	Kzt	$\mathbf{q}_{\mathbf{z}}$	Windward	Leeward	Side	Total	Minimum
						Press	Press	Press	Press	Pressure*
ft		psf			psf	psf	psf	psf	psf	psf
20.522	+0.18	14.87	0.623	1.000	16.17	7.07	-6.63	-9.80	13.70	9.60
14.786	+0.18	14.87	0.573	1.000	14.87	6.32	-6.63	-9.80	12.95	9.60
9.050	+0.18	14.87	0.573	1.000	14.87	6.32	-6.63	-9.80	12.95	9.60
20.522	-0.18	14.87	0.623	1.000	16.17	11.62	-2.08	-5.25	13.70	9.60
14.786	-0.18	14.87	0.573	1.000	14.87	10.87	-2.08	-5.25	12.95	9.60
9.050	-0.18	14.87	0.573	1.000	14.87	10.87	-2.08	-5.25	12.95	9.60

= $2.41 \cdot (15/Z_q)^{2/\alpha}$ = +Internal Coef T:26.13-1 GC_{pi} = $For +GC_{pi}$ use q_h

= $q_h \cdot K_d \cdot G \cdot Cp_{SW} - q_{ip} \cdot K_d \cdot (GC_{pi+})$ E:27.3-1 Side $= q_z \cdot K_d \cdot G \cdot Cp_{WW} - q_{ip} \cdot K_d \cdot (GC_{pi+}) \quad E:27.3-1$ Windward +Press

= Pressure Acting Toward Surface \$27.1.5 = MWFRS Min Wall Pressure = 9.60 psf K_{zt} = No Topographic Feature = $.00256 \cdot K_z \cdot K_{zt} \cdot K_e \cdot V^2 \cdot LF_{E:26.10-1}$ q_z = Negative Internal Pressure: qh ain.

= $q_h \cdot K_d \cdot G \cdot Cp_{LW} - q_{ip} \cdot K_d \cdot (GC_{pi+})$ E:27.3-1 Leeward Total = Windward - Leeward

-Press = Pressure Acting Away from Surface

> James A Zaleski

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James

Zaleski

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Roof Wind Pressures [Parallel to Ridge] All wind pressures include a Load Factor (LF) of O

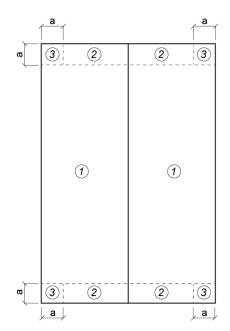
		wind pres	Sures II		ьоац		(LF) O	0.6				
Component	Description	Location	Start	End	θ	Basis	GC _{pi}	C_{pMin}	C _{pMax}	P_{\min}	P _{max}	Pmin
			ft	ft	Ů					psf	psf	psf
Overhang	Overhang 0 to h/2	5,7	0.000	2.000	0.0	P	0	-0.9	-0.18	-9.67	-1.93	4.80
Overhang	Overhang ≥ 2•h	6,8	54.000	56.000	0.0	P	0	-0.3	-0.18	-3.22	-1.93	4.80
Overhang Bottom	Bottom	5,7	All	All	0.0	N/A	0	0.8	0.8	8.60	8.60	4.80
Overhang	Overhang 0 to h	3,4	2.000	14.786	0.0	P	+0.18	-0.9	-0.18	-11.95	-4.21	4.80
Overhang	Overhang h to 2•h	3,4	14.786	29.572	0.0	P	+0.18	-0.5	-0.18	-7.65	-4.21	4.80
Overhang	Overhang ≥ 2•h	3,4	29.572	54.000	0.0	P	+0.18	-0.3	-0.18	-5.50	-4.21	4.80
Roof	Roof 0 to h	1,2	2.000	14.786	0.0	P	+0.18	-0.9	-0.18	-11.95	-4.21	4.80
Roof	Roof h to 2•h	1,2	14.786	29.572	0.0	P	+0.18	-0.5	-0.18	-7.65	-4.21	4.80
Roof	Roof ≥ 2•h	1,2	29.572	54.000	0.0	P	+0.18	-0.3	-0.18	-5.50	-4.21	4.80
Overhang	Overhang 0 to h	3,4	2.000	14.786	0.0	P	-0.18	-0.9	-0.18	-7.39	0.34	4.80
Overhang	Overhang h to 2.h	3,4	14.786	29.572	0.0	Р	-0.18	-0.5	-0.18	-3.10	0.34	4.80
Overhang	Overhang ≥ 2•h	3,4	29.572	54.000	0.0	P	-0.18	-0.3	-0.18	-0.95	0.34	4.80
Roof	Roof 0 to h	1,2	2.000	14.786	0.0	P	-0.18	-0.9	-0.18	-7.39	0.34	4.80
Roof	Roof h to 2•h	1,2	14.786	29.572	0.0	P	-0.18	-0.5	-0.18	-3.10	0.34	4.80
Roof	Roof ≥ 2•h	1,2	29.572	54.000	0.0	P	-0.18	-0.3	-0.18	-0.95	0.34	4.80

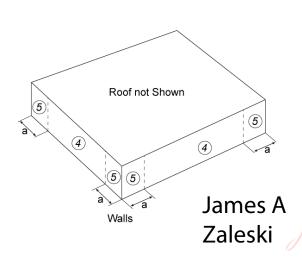
Roof Pressures based upon Ch 27:

```
Component = The building component for pressures
                                                                                Location = Reference Graphic in Output for Values
               = Start Dist from Windward Edge
Start
                                                                                End
                                                                                              = End Dist from Windward Edge
               = Smallest Coefficient Magnitude
                                                                                              = Largest Coefficient Magnitude
C_{pMin}
                                                                                C_{pMax}
                                                                                              =q_h \cdot K_d \cdot G \cdot C_{pMax} - q_{in} \cdot K_d \cdot GC_{piE:27.3-1} \\ = P = Parallel \ to \ Ridge: N = Normal \ to \ Ridge
P_{min}
               = q_h \cdot K_d \cdot G \cdot C_{pMin} - q_{ip} \cdot K_d \cdot GC_{piE:27.3-1}
                                                                                P_{max}
               = +Internal Coef T:26.13-1
GC_{pi}
                                                                                Basis
               = Min Press projected on vertical plane _{\$27.1.5}
P_{\min}
                                                                                              = Roof Slope Relative to Wind
                                                                                Α
$27.1.5
               = MWFRS Min Wall Pressure = 9.60 psf
                                                                                +Press
                                                                                              = Pressure Acting Toward Surface
-Press
               = Pressure Acting Away from Surface
```

ullet The smaller uplift pressures due to $C_{p \text{Min}}$ can become critical when wind is combined with roof live load or snow load; load combinations are given in ASCE 7

Components and Cladding (C&C) Wind Loads per Ch 30 Pt 1 Roof & Wall





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h = Mean structure height = 14.786 ft K_{zt} = No Topographic Feature = 1.000 GC_{pi} = \pm Internal Press Coef $_{T:26.13-1}$ = \pm 0.18 K_{e} = Ground Elev Factor $_{T:26.10-1}$ = 1.000 θ = Slope of Roof = 30.26 $^{\circ}$ a = Max(α_{1} , 0.04 $^{\bullet}$ B, 3 ft [0.9 m]) = 3.533 ft

C&C Wind Roof & Wall Detailed per Ch 30 Pt 1 All wind pressures include a Load Factor (LF) of 0.6

Description	Zone	Width	Span	Area	1/3 Rule	Reference	GCpi	GC _{pd}	GC _{pu}	P _{down}	P_{uplift}
		ft	ft	ft²						psf	psf
Zone 1	1	1.0000	1.0000	1.00	No	F:30.3-2D	±0.18	0.90	-1.80	13.65	-25.03
Zone 2	2	1.0000	1.0000	1.00	No	F:30.3-2D	±0.18	0.90	-2.00	13.65	-27.56
Zone 3	3	1.0000	1.0000	1.00	No	F:30.3-2D	±0.18	0.90	-2.50	13.65	-33.88
Zone 4	4	1.0000	1.0000	1.00	No	F:30.3-1	±0.18	1.00	-1.10	14.92	-16.18
Zone 5	5	1.0000	1.0000	1.00	No	F:30.3-1	±0.18	1.00	-1.40	14.92	-19.97

= Down (+) External Coefficient = Uplift (-) External Coefficient GC_{pd} GC_{pu} $= q_h \cdot K_d \cdot [GC_{pd} - GC_{pi}] \quad [E:30.3-1]$ $= q_h \cdot K_d \cdot [GC_{pu} - GC_{pi}] \quad [E:30.3-1]$ P_{down} P_{uplift} +Press = Pressure Acting Toward Surface -Press = Pressure Acting Away from Surface \$30.2.2 = C&C Min Pressure = 9.60 psf Zone = Applicable Zone per Figure = Width of Component = Span of Component Width Span Area = Span • Width 1/3 Rule = Width limited to Span/3 = Internal Coef T:26.13-1 GC_{pi} Reference = Applicable Reference from Standard

C&C Wind Roof & Wall Overhangs Detailed per Ch 30 Pt 4 All wind pressures include a Load Factor (LF) of 0.6

				Presi	JULCO INCL	ade a boad ractor (b.	., o <u>-</u> o.	. •			
Description	Zone	Width	Span	Area	1/3 Rule	Reference	GCpi	GC _{pd}	GC_{pu}	P _{down}	P_{uplift}
		ft	ft	ft²						psf	psf
Zone 1_OHS	1_OHS	1.0000	1.0000	1.00	No	F:30.3-2D/F:30.3-1	±0.18	0.00	-2.80	9.60	-37.67
Zone 2_OHS	2_OHS	1.0000	1.0000	1.00	No	F:30.3-2D/F:30.3-1	±0.18	0.00	-3.00	9.60	-40.20

Zone 3 OHS 3 OHS 1.0000 1.0000 1.00 No F:30.3-2D/F:30.3-1 ±0.18 0.00 -3.50 9.60 -46.52

= Down (+) External Coefficient GC_{pd}

 P_{down} $= q_h \bullet K_d \bullet [GC_{pd} - GC_{pi}] _{E:30.7-1}$ = Pressure Acting Toward Surface +Press

\$30.2.2 = C&C Min Pressure = 9.60 psf Width

= Width of Component Area = Span • Width = Internal Coef T:26.13-1 GC_{pi}

#_OHS = Roof Zone # on Overhang Soffit

= Uplift (-) External Coefficient GC_{pu}

 P_{uplift}

 $= q_h \cdot K_d \cdot [GC_{pu} - GC_{pi}] \quad \text{E:30.7-1}$ = Pressure Acting Away from Surface-Press

Zone = Applicable Zone per Figure

Span = Span of Component 1/3 Rule = Width limited to Span/3

Reference = Applicable Reference from Standard Soffit = Soffit present so use building GC_{pi}

Warnings & Notes:

Overhang GCp determined from adding applicable roof GCp on top to applicable Wall GCp on bottom

C&C Wind Roof & Wall Summary per Ch 30 Pt 1

Zone	Reference	P_{max} $A \le 10 \text{ ft}^2$	P_{min} $A \le 10 \text{ ft}^2$	$\begin{array}{c c} P_{\text{max}} \\ A = 20 \text{ ft}^2 \end{array}$	P_{\min} $A = 20 \text{ ft}^2$	P_{max} $A = 50 \text{ ft}^2$	P_{\min} $A = 50 \text{ ft}^2$
		psf	psf	psf	psf	psf	psf
1	F:30.3-2D	13.65	-25.03	12.48	-21.22	10.94	-16.19
2	F:30.3-2D	13.65	-27.56	12.48	-24.63	10.94	-20.77
3	F:30.3-2D	13.65	-33.88	12.48	-29.49	10.94	-23.69
4	F:30.3-1	14.92	-16.18	14.24	-15.51	13.36	-14.62
5	F:30.3-1	14.92	-19.97	14.24	-18.63	13.36	-16.85
1_OHS	F:30.3-2D/F:30.3-1	9.60	-37.67	9.60	-33.19	9.60	-27.27
2_OHS	F:30.3-2D/F:30.3-1	9.60	-40.20	9.60	-36.60	9.60	-31.85
3_OHS	F:30.3-2D/F:30.3-1	9.60	-46.52	9.60	-41.46	9.60	-34.77

Zone	Reference	$\begin{array}{c} P_{\text{max}} \\ A = 100 \text{ ft}^2 \end{array}$	$\begin{array}{c} P_{\text{min}} \\ A = 100 \text{ ft}^2 \end{array}$	$\begin{array}{c} P_{\text{max}} \\ A = 200 \text{ ft}^2 \end{array}$	$A = 200 \text{ ft}^2$	P _{max} A > 500 ft ²	P _{min} A > 500 ft ²
		psf	psf	psf	psf	psf	psf
1	F:30.3-2D	9.77	-12.39	9.60	-12.39	9.60	-12.39
2	F:30.3-2D	9.77	-17.84	9.60	-14.92	9.60	-14.92
3	F:30.3-2D	9.77	-19.30	9.60	-14.92	9.60	-14.92
4	F:30.3-1	12.68	-13.95	12.01	-13.28	11.12	-12.39
5	F:30.3-1	12.68	-15.51	12.01	-14.16	11.12	-12.39
1_OHS	F:30.3-2D/F:30.3-1	9.60	-22.80	9.60	-22.12	9.60	-21.24
2_OHS	F:30.3-2D/F:30.3-1	9.60	-28.25	9.60	-24.65	9.60	-23.76
3_OHS	F:30.3-2D/F:30.3-1	9.60	-29.71	9.60	-24.65	9.60	-23.76

= Maximum Pressure = Minimum Pressure = Span • Width Width = Width of Component

= Span of Component = Applicable Reference from Standard Span Reference \$30.2.2 = C&C Min Pressure = 9.60 psf Interpolate = Interpolate for Areas between columns



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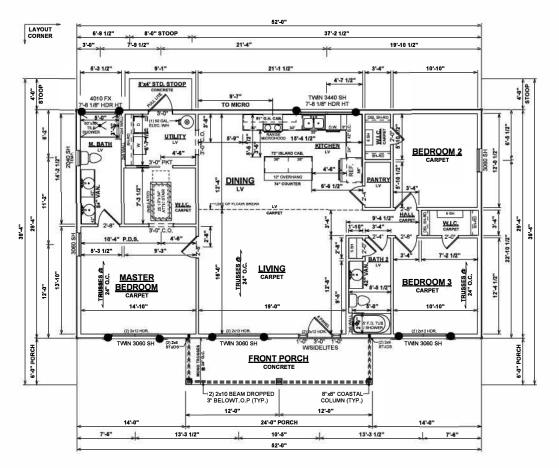
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FIRST FLOOR PLAN 1/8" = 1'-0"

INDICATES SIMPSON HDU2 HOLD DOWN TO DOUBLE STUD MIN WITH 8" ANCHOR

SHEATH EXTERIOR 100%

James Zaleski PE #51544 2305 Haverhill Rd Tall F1 32312 ph 850-766-7778

GENERAL NOTES:

- MINIMUM 9'-1 1/8" CEILING HEIGHT ON FIRST FLOOR U.N.O.
- ALL LOAD BEARING WALLS AND EXTERIOR OPENINGS TO HAVE (2) 2x10 HEADERS U.N.O.
- STANDARD FIRST FLOOR WINDOWHEADER HEIGHTS SHALL BE FRAMED DOWN 2'-2" FROM T.O.P., U.N.O.
- WINDOW HEADERS FOR WINDOWS LOCATED ABOVE KITCHEN SINK SHALL BE FRAMED DOWN 1'-5" FROM T.O.P.,
- 7/16" O.S.B. AND HOUSEWRAP REQUIRED.
- DIMENSIONS ARE TO SHEATHING EXTERIOR; SUBTRACT 1/2" FROM DIMENSIONS FOR EXTERIOR WINDOWAND DOOR FRAMING LOCATION IF OPENINGS ARE FRAMED BEFORE SHEATHING INSTALLATION
- ALL INTERIOR DOORS ARE EITHER CENTERED ON WALLS OR ROUGH OPENING STARTED MINIMUM OF 4" FROM ADJOINING WALL LINEESS OTHERWISE DIMENSIONED.
- NUMBER OF STAIR TREADS AND RISERS MAY VARY AS A RESULT OF LOCAL BUILDING CODES, STANDARDS AND FINAL GRADE.
- ALL SHELVES TO BE 12" DEEP U.N.O.
 HEIGHT OFF FLOOR TO BE:
 1, SINGLE 68"
- 2. DOUBLE 42" AND 84"
- ALL PLUMBING FIXTURES SHOWN ARE A REPRESENTATION OF SIZE AND LOCATION ONLY. ACTUAL STYLE AND BRAND OF FIXTURES MAY VARY PER OFFICE
- · ALL TUBS / SHOWERS TO HAVE NAILERS AT FLANGE.
- INSTALL A 24" WIDE WALKWAY FROM ATTIC ACCESS TO
- · PORCH, STOOP, & DECK HANDRAILS NOT INCLUDED W/
- · RAII INGS ARE A FORCED OPTION WHEN PORCH IS OVER 30" HIGH FROM FINISHED GRADE.
- PORCH, STOOP & DECK HANDRAILS NOT INCLUDED WITH SLAB FOUNDATION AND RAILING IS A FORCED OPTION WHEN THE PORCH IS OVER 30" HIGH

	MARTER	600	SHOULD BE	SHOWN	NEED ON EDO
BASE CAR.	171	472	263	- 243	d:
WALL CAR.	171	-48	102	120	CREDIT OF \$1 NOT \$5
COUNTER	39.55	0	38 SF	01 SE	+12 SF

SPECIAL NOTES:

 SCHLUTER DITRA UNCOUPLING AND WATERPROOFING MEMBRANE TO BE USED ON ALL TILE SHOWER INSTALLATIONS.



13,725 CUBIC FEET FIRST FLOOR HEATED OTAL UNDER CITY ASHLEY EXTERIOR WALLS 59-24-022

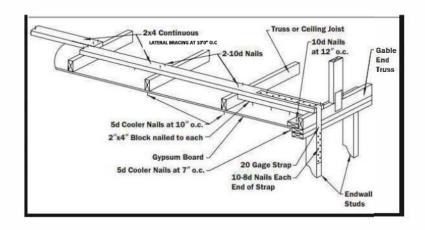
FLOOR

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PAPER SIZE: 11" x 17"

SCALE: As indicated

GABLE END BRACING

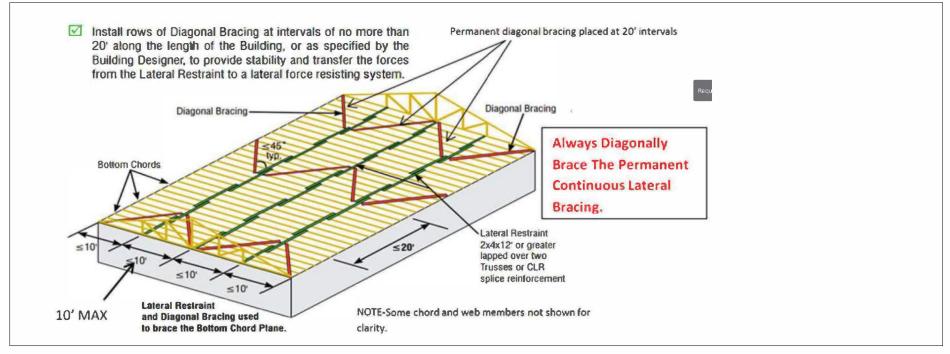


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Date: 2024.12.14 21:40:44 -05'00'

1. CONCRETE REQUIREMENTS:

ALL CONCRETE SHALL BE OF AT LEAST 3000PSI 28-DAY COMPRESSIVE STRENGTH ALL CONCRETE GRADE BEAMS AND SLABS SHALL BE RUN CONTINUOUSLY AS TO BEHAVE IN A MONOLITHIC FASHION-

CONCRETE SLAB THICKNESS SHALL BE 4" ABOVE THE FOOTERS, AS SHOWN IN THE

STEP DOWNS AND LEDGES IN THE CONCRETE SHALL NOT REDUCE THE CONCRETE COVER REQUIREMENT FOR STEEL REINFORCEMENT

A 6 MIL VAPOR BARRIER SHALL BE PLACED PRIOR TO CONCRETE POUR, AS SHOWN IN

2. REINFORCEMENT REQUIREMENTS:

ALL STEEL REINFORCEMENT SHALL BE GRADE 60 (60 KSI)

3" OF PROPER, MINIMUM COVER OVER REBAR SHALL BE MAINTAINED FROM ALL CONCRETE SURFACES, AS SHOWN IN THE DETAILS.

NO. 2 WIRE TIES SHALL BE PLACED 48" ON CENTER WITH A MINIMUM OF THREE TIES PER BAR. AS SHOWN IN THE DETAILS.

ALL LONGITUDINAL REBAR SHALL BE RUN CONTINUOUSLY SUCH THAT THE

FOUNDATION SYSTEM ACTS IN A MONOLITHIC FASHION-

ALL REBAR OVERLAPS (LAP SPLICES) SHALL BE AT LEAST 40"

3. SOIL REQUIREMENTS:

SATISFACTORY FILL MATERIAL SHALL BE FREE OF VEGETATION AND ORGANIC MATTER, WITH NOT MORE THAN 20 PERCENT BY WEIGHT PASSING THE 200 SIEVE. FILL LIFTS SHALL BE 12 INCHES MAXIMUM

ALL TOP SOIL CONTAINING UNSUITABLE MATERIAL SHALL BE REMOVED PRIOR TO THE PLACEMENT OF CLEAN FILL MATERIAL

ALL CLEAN FILL SHALL BE PLACED ON TOP OF UNDISTURBED SOIL. FREE OF DELETERIOUS AND ORGANIC MATERIALS, AS NOTED ABOVE-

MORTAR: MORTAR SHALL BE TYPE M OR TYPE S: (28 DAY STRENGTH OF 2000 PSI). MASONRY SHALL BE LAID IN A RUNNING BOND.

4. CONCRETE MASONRY UNITS:

A. CMU SHALL MEET THE REQUIREMENTS OF ASTM C 90.

B. THE MINIMUM COMPRESSIVE STRENGTH OF THE MASONRY SHALL BE F'M = 1500 PSI-

C. WHEN 12" CMU IS UTILIZED INSTEAD OF 8" CMU, THE OVERALL WIDTH OF THE FOOTER SHALL BE INCREASED BY 4" UNILESS OTHERWISE SPECIFIED ON THE DETAILS

D. ALTERNATIVE REINFORCING BAR SIZES AND SPACINGS HAVING AN EQUIVALENT CROSS-SECTIONAL AREA OF REINFORCEMENT PER LINEAL FOOT OF WALL SHALL BE PERMITTED PROVIDED THE SPACING OF THE REINFORCEMENT DOES NOT EXCEED 72 INCHES

E. VERTICAL REINFORCEMENT SHALL BE GRADE 60 MINIMUM: THE DISTANCE FROM THE FACE OF THE SOIL SIDE OF THE WALL TO THE CENTER OF VERTICAL REINFORCEMENT SHALL BE AT LEAST 5 INCHES FOR 8" CMU AND 8-3/4" INCHES FOR 12" CMU-

SOIL NOTES

SATISFACTORY FILL MATERIAL SHALL BE FREE OF VEGETATION AND ORGANIC MATTER. WITH NOT MORE THAN 20 PERCENT BY WEIGHT PASSING THE 200 SIEVE.

FILL LIFTS SHALL BE 12 INCHES MAXIMUM.

ALL TOP SOIL CONTAINING UNSUITABLE MATERIAL SHALL BE REMOVED PRIOR TO THE PLACEMENT OF CLEAN FILL MATERIAL.

COMPACTION TEST RESULTS SHALL BE PROVIDED TO THE CITY/COUNTY INSPECTOR AND THE ENGINEER FOR APPROVAL PRIOR TO THE PLACEMENT OF ANY CONCRETE, STRUCTURES, BUILDING FOUNDATIONS, PAVEMENTS, OR OTHER MATERIALS.. EACH LAYER OF CLEAN FILL SHALL BE ADEQUATELY COMPACTED TO AT LEAST 95% OF OPTIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST.

ALL SOILS SHALL BE ADEQUATELY DRAINED/DRIED PRIOR TO CONCRETE POUR.

SOIL BENEATH SLAB SHALL BE CHEMICALLY TREATED FOR TERMITES.

JAMES ZALESKI P.E. 51544 2305 HAVERHILL RD TALLAHASSEE. FL 32312 PH 850-766-7778

GENERAL LUMBER NOTES

- 1. LUMBER AND WOOD FRAMING SHALL COMPLY WITH CHAPTER 23 OF THE 2023 BUILDING CODE
- 2. ALL STRUCTURAL LUMBER TO BE MIN SOUTHERN YELLOW PINE NUMBER 2
- 3. MICROLAM LVL BEAMS USED AS MULTIPLE ASSEMBLY BEAMS TO BE CONNECTED WITH 3 ROWS OF 16D NAILS AT 12" O.C.

STRUCTURAL GLUED LAMINATED TIMBER SHALL BE PRODUCED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC), MINIMUM ALLOWABLE BENDING STRESS SHALL BE 2,400 PSI (DRY CONDITIONS).

PROVIDE DRESSED SEASONED LUMBER, S4S, WITH A VAXIMUM MOISTURE CONTENT OF 19% AT TIME OF DRESSING AS LISTED BELOW.

INTERIOR AND EXTERIOR LOAD-BEARING WALLS: SOUNTERN PINE, NO. 2 GRADE.

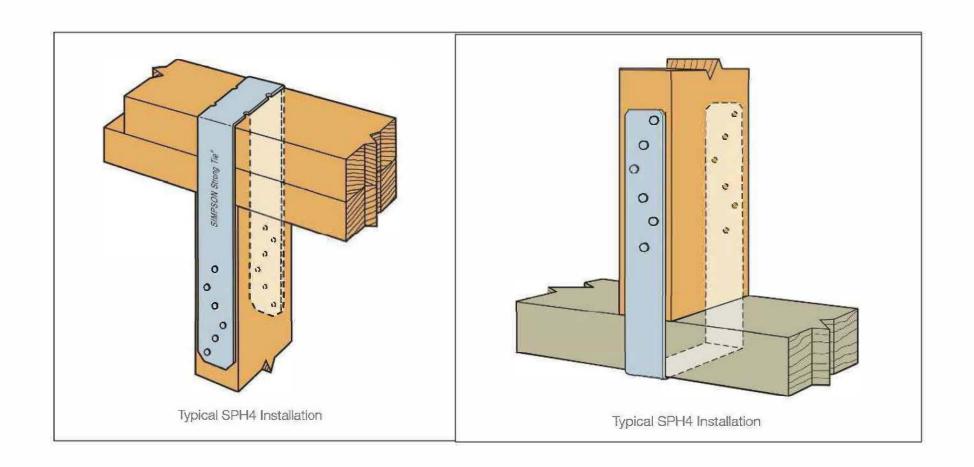
LINTELS, FLOOR JOISTS AND BEAMS! SOUTERN PINE, NO. 2 GRADE,

WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE. PRESSURE-TREATED, USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD, THE PROTECTIVE COATING ON LIGHT GAUGE STEEL CONNECTIONS IN CONTACT W/ PRESURE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURERS RECOMMENDATIONS.

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	Dimensio	ns (in.)			Fasteners (in.)
Model No.	W	L.	Stud	Plate Width	Stud
SPH4	3 9/16	8 3/4	2x	4x	(10) 0.148 x 1 1/2 or (12) 0.148 x 1 1/2



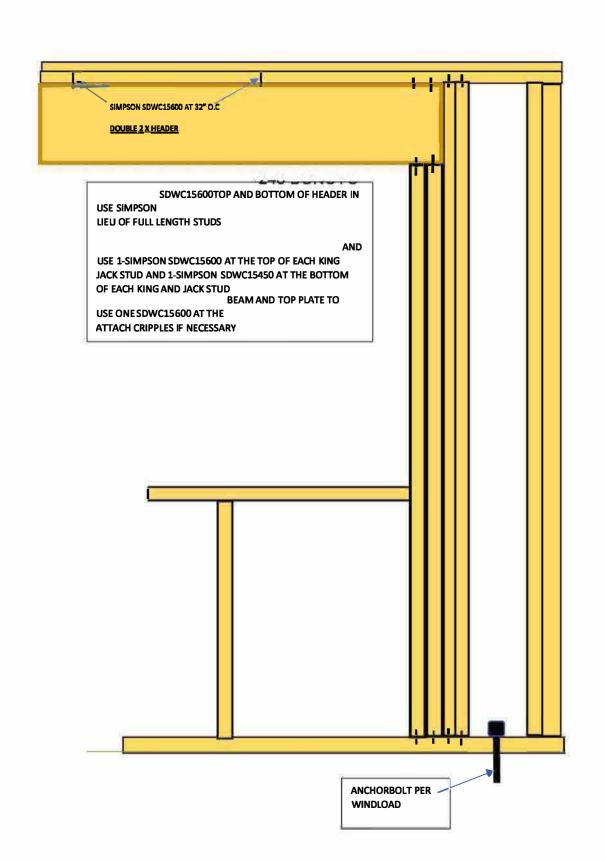
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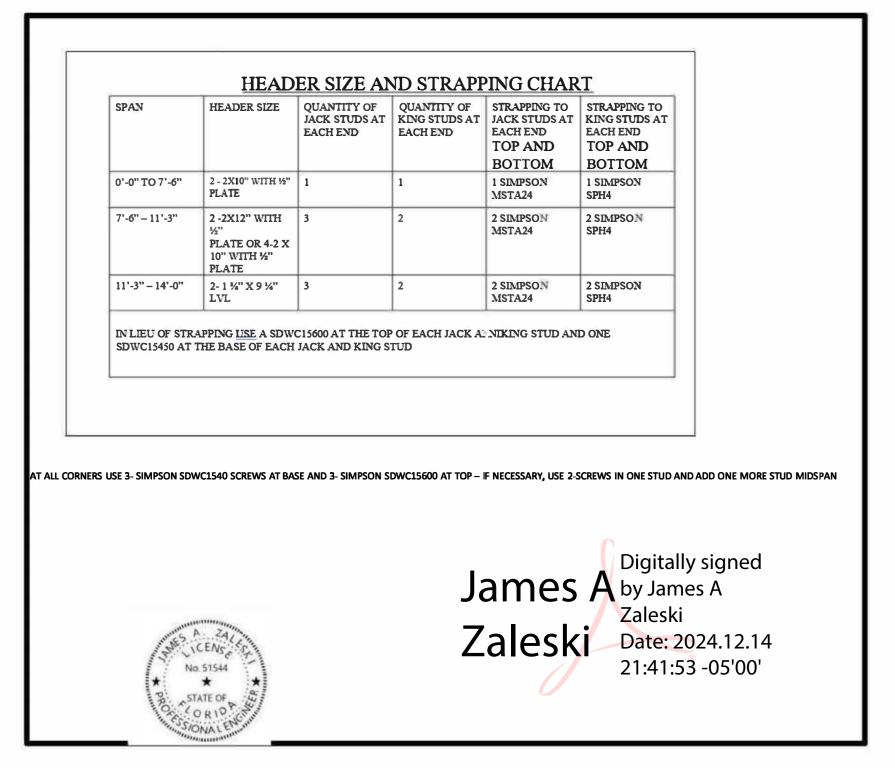
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