



MEC DESIGN

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Client Name:
 5900 W LITTLE HAITI LLC

Project name/address:
 Office building
 185 NE 59 ST
 Miami, FL 33137

Seal:

Design Wind loads:

Wind Loads (ASCE 7-22):
 Design Wind Speed: 175 MPH
 Exposure Category: B
 Roof Slope: 0 degrees (flat roof)
 Walls:

A: 48.70 PSF
 B: 25.30 PSF
 C: 32.30 PSF
 D: -14.98 PSF

Roof:
 E: -58.48 PSF
 F: 33.25 PSF
 G: -40.75 PSF
 H: -25.78 PSF
 Eoh: -81.88 PSF
 Goh: -64.15 PSF

Note: All wind pressures were evaluated for h=30 feet which is the mean roof height. For simplification purposes, design for entire MWFRS will assume wind pressure at h=30 and will not vary as building height gets closer to the ground.

Components & Cladding: CH. 30 P.2

a = 4' - 6"
 Effective wind area 10 SF:
 Zone 1: +5.60/-38.25 PSF
 Zone 2: +5.60/-75.57 PSF
 Zone 3: +5.60/-122.22 PSF
 Zone 4: +38.25/-42.92 PSF
 Zone 5: +38.25/-56.91 PSF

Effective Wind Area 20 SF:
 Zone 1: +3.27/-35.92 PSF
 Zone 2: +3.27/-66.24 PSF
 Zone 3: +3.27/-96.56 PSF
 Zone 4: +35.92/-40.58 PSF
 Zone 5: +35.92/-52.25 PSF

Effective Wind Area 50 SF:
 Zone 1: +1.87/-34.52 PSF
 Zone 2: +1.87/-52.25 PSF
 Zone 3: +1.87/-66.24 PSF
 Zone 4: +32.65/-37.32 PSF
 Zone 5: +32.65/-45.25 PSF

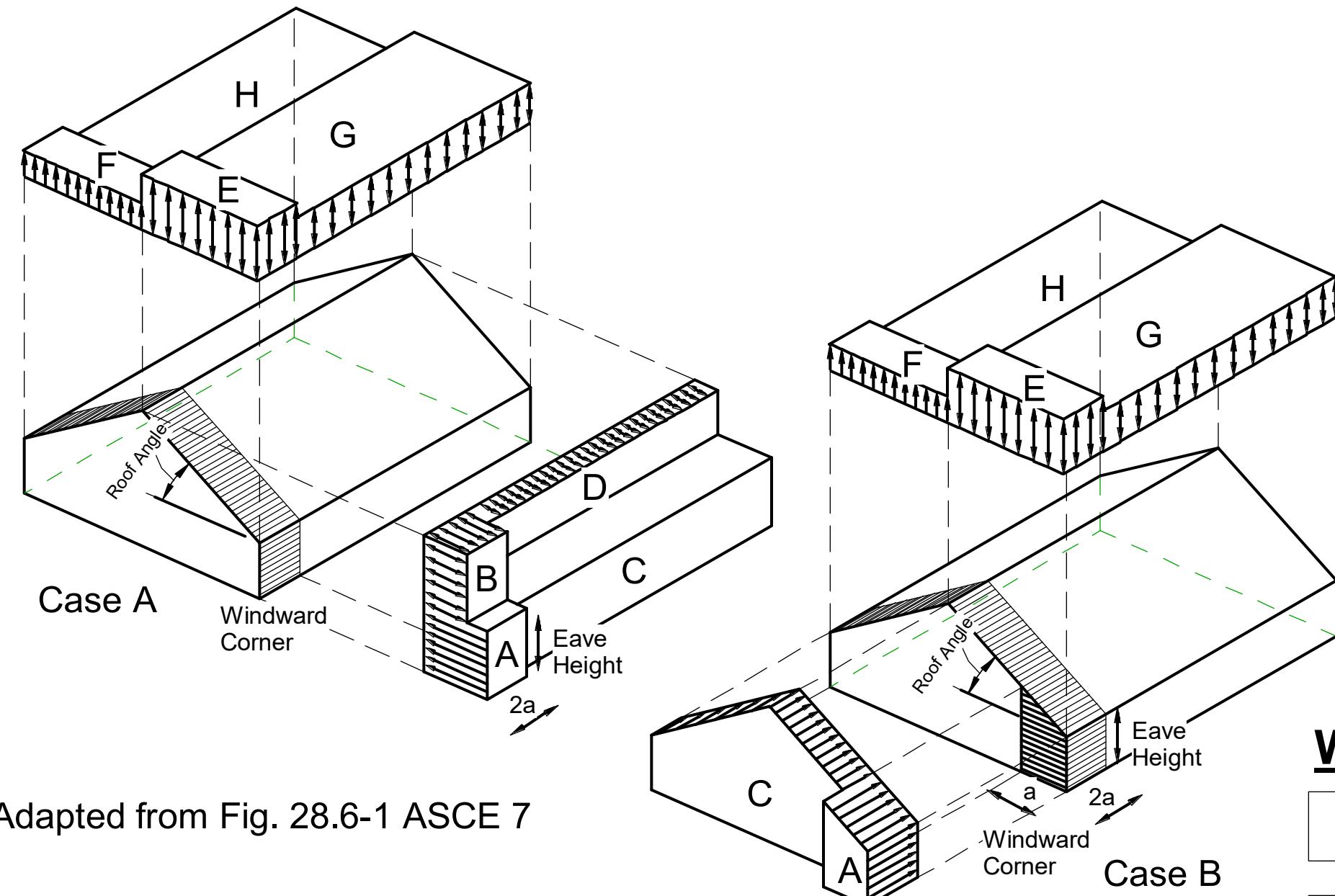
Effective Wind Area 100 SF:
 Zone 1: +0.93/-33.59 PSF
 Zone 2: +0.93/-42.92 PSF
 Zone 3: +0.93/-42.92 PSF
 Zone 4: +29.85/-34.52 PSF
 Zone 5: +29.85/-40.58 PSF

Roof(Effective wind area 20 SF):
 Zone 1: +3.27/-35.92 PSF
 Zone 2: +3.27/-66.24 PSF
 Zone 3: +3.27/-96.56 PSF

Doors(Effective Wind Area 20 SF):
 Zone 4: +35.92/-40.58 PSF
 Zone 5: +35.92/-52.25 PSF

Windows(Effective Wind Area 10 SF):
 Zone 4: +38.25/-42.92 PSF
 Zone 5: +38.25/-56.91 PSF

Overhangs(Eff.Wind Area 10 SF):
 Zone 2: +5.60/-75.57 PSF
 Zone 3: +5.60/-122.22 PSF



Adapted from Fig. 28.6-1 ASCE 7

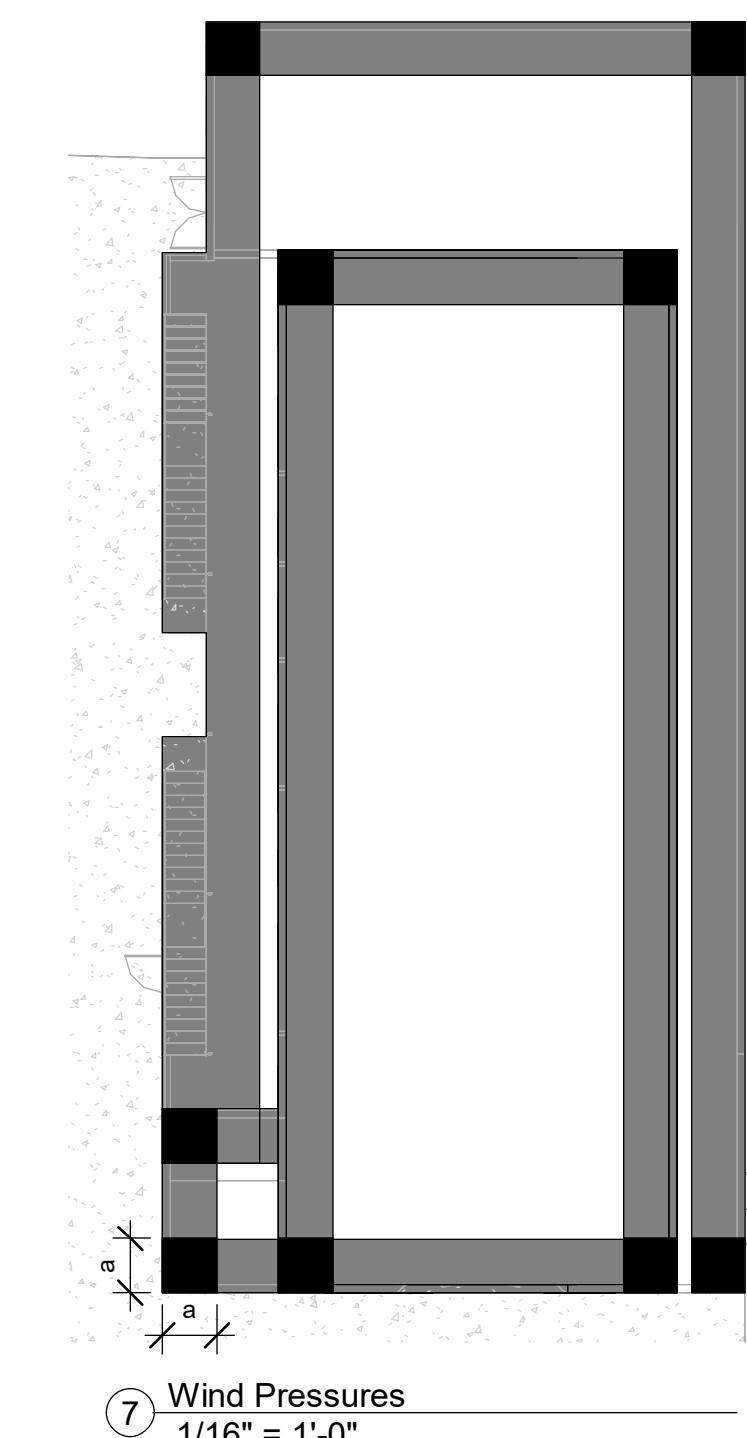
1 ASCE 7 Fig. 28.6-1
 1" = 1'-0"

Wind Zone Legend:

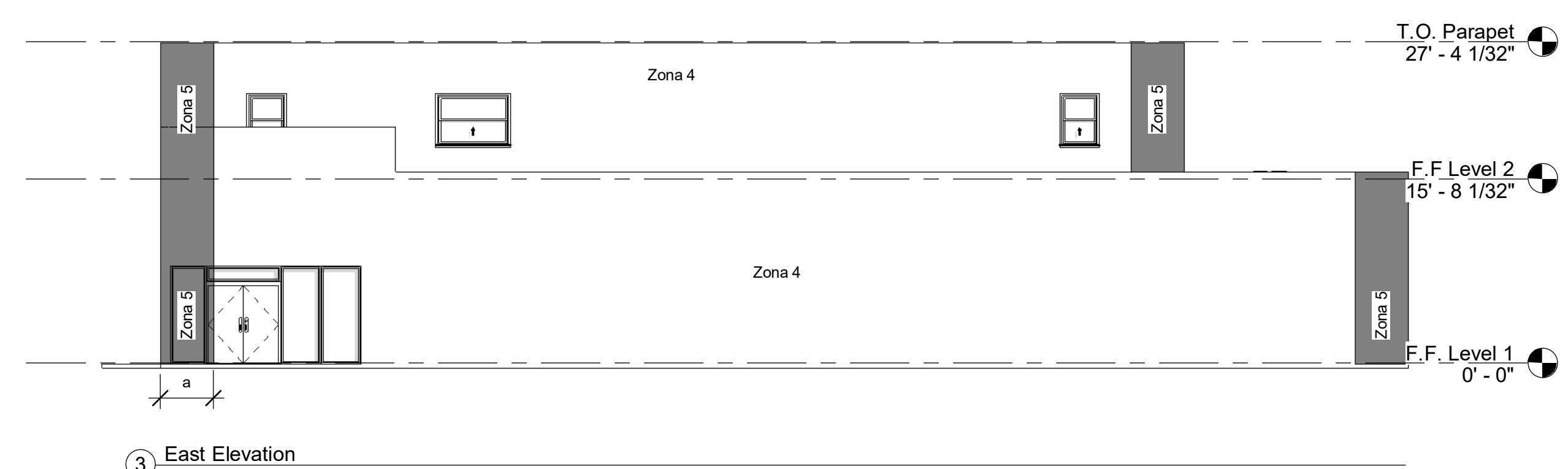
 Interior Zones
 Roofs - Zone 1/ Walls - Zone 4

 End Zones
 Roofs - Zone 2/ Walls - Zone 5

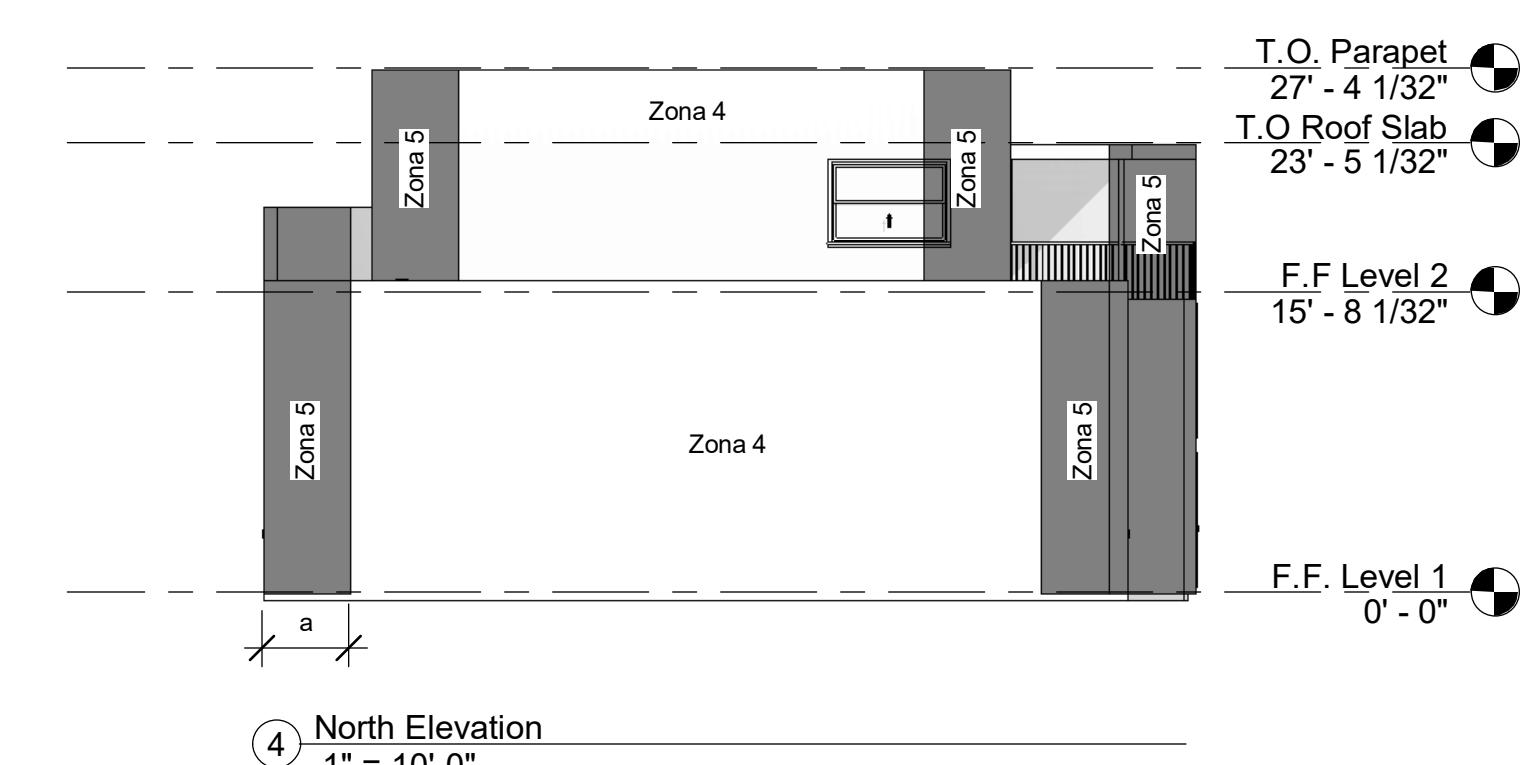
 Corner Zones
 Roofs - Zone 3



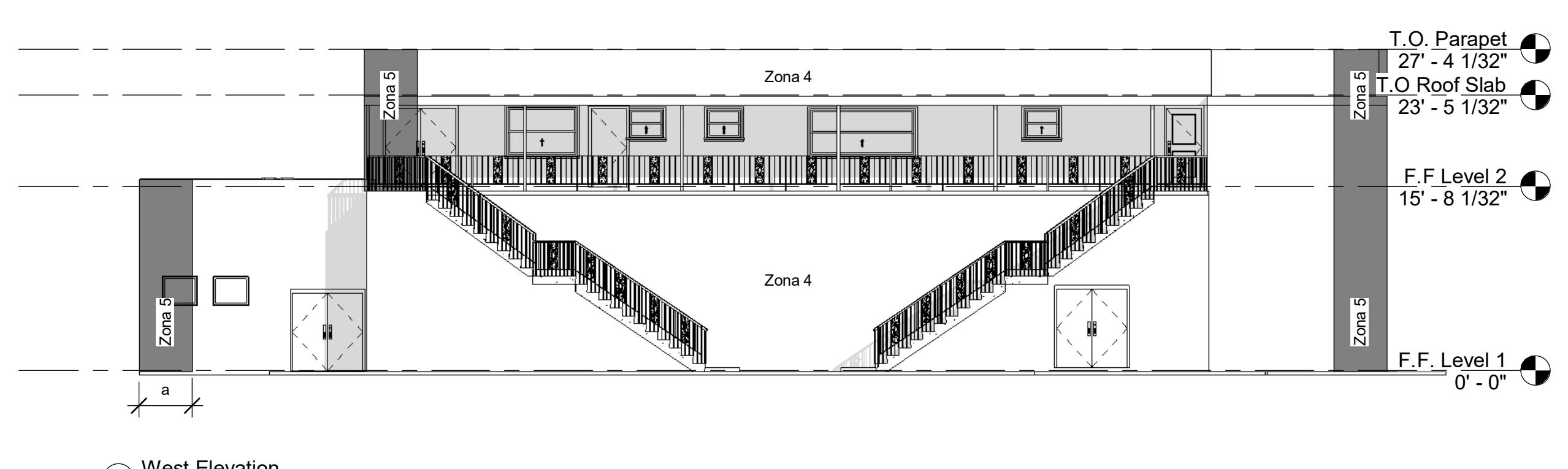
7 Wind Pressures
 1/16" = 1'-0"



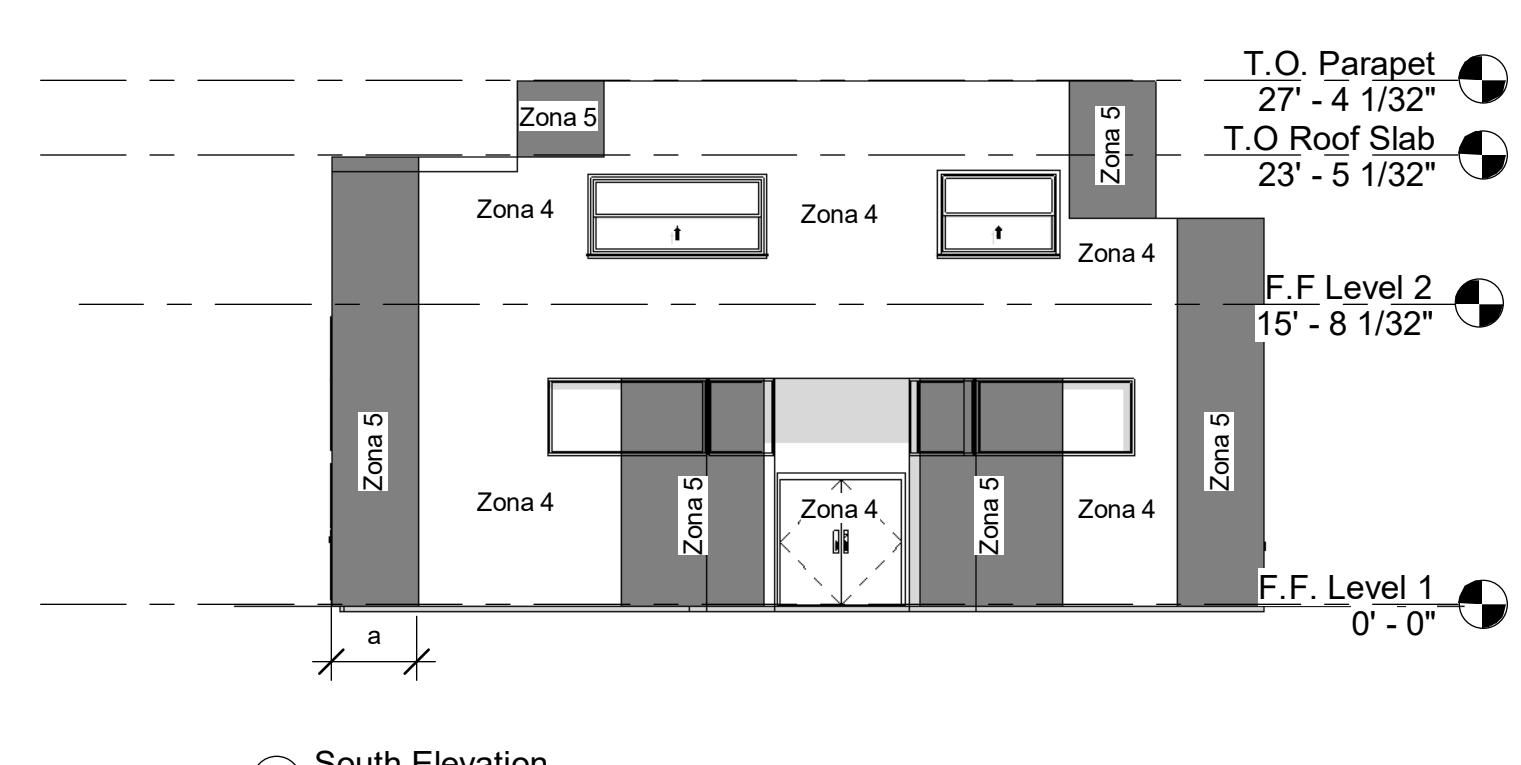
3 East Elevation
 1" = 10'-0"



4 North Elevation
 1" = 10'-0"



5 West Elevation
 1" = 10'-0"



6 South Elevation
 1" = 10'-0"

Revision Schedule

Revision	Date	By
2	12/12/2024	MS

Drawn by:

JL

Checked by:

HC

Date:

03/24/2023

Sheet name:

Wind Pressures

Sheet number:

2

Scope & Reference:
 Legalization/Remodeling & Repair

#BB2019008085

S201