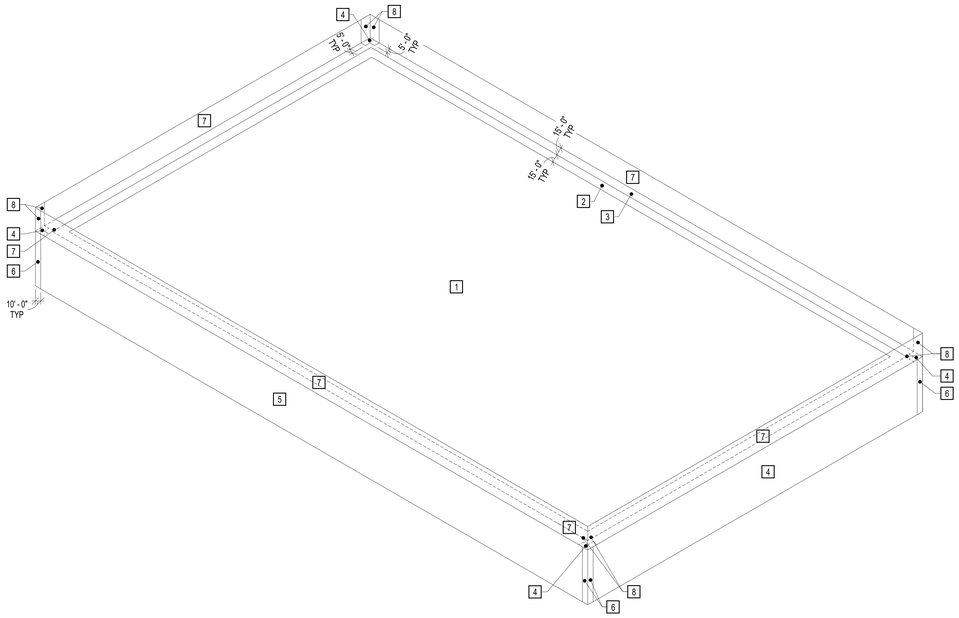

WIND PRESSURE ON COMPONENTS AND CLADDING

TYPE	ZONE	EFFECTIVE WIND AREA (SQ FT)							
		< 10		50		200		> 500	
		PRESSURE (PSF)		PRESSURE (PSF)		PRESSURE (PSF)		PRESSURE (PSF)	
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
ROOF	1	16.0	-28.3	16.0	-28.3	16.0	-24.3	16.0	-19.1
ROOF	2	16.0	-49.2	16.0	-38.4	16.0	-35.2	16.0	-30.9
ROOF	3	28.3	-64.9	24.1	-51.0	22.9	-46.9	21.2	-41.4
ROOF	4	28.3	-64.9	24.1	-51.0	22.9	-46.9	21.2	-41.4
WALLS	5	28.3	-30.6	25.4	-27.7	22.9	-25.2	21.2	-23.6
WALLS	6	28.3	-37.7	25.4	-31.9	22.9	-26.9	21.2	-23.6
PARAPET	7	28.9	-66.5	26.0	-56.5	23.4	-48.0	21.7	-42.3
PARAPET	8	28.9	-66.5	26.0	-56.5	23.4	-48.0	21.7	-42.3

NOTES:
1. DESIGN WIND PRESSURES SHALL BE USED IN THE DESIGN OF ALL COMPONENTS AND CLADDING ELEMENTS COMPRISING THE BUILDING ENVELOPE.
2. PRESSURES ARE INDICATED AT STRENGTH (LRFD) LEVEL. TO OBTAIN SERVICE LEVEL (ASD) PRESSURES, MULTIPLY TABULATED VALUES BY 0.6.
3. WIND PRESSURE IS PERMITTED TO BE TAKEN AS 0.42 (0.7*0.6) TIMES THE COMPONENT AND CLADDING PRESSURE FOR THE PURPOSE OF DETERMINING DEFLECTION LIMITS.
4. POSITIVE PRESSURES ACT TOWARD COMPONENT SURFACES AND NEGATIVE PRESSURES ACT AWAY FROM EACH COMPONENT SURFACE.
5. LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT AND CLADDING DESIGN WIND PRESSURE.

1 COMPONENTS AND CLADDING WIND PRESSURES

SCALE: NTS

NOTES:
1. + PRESSURE ACT TOWARD THE WALL FACE.
2. - PRESSURE ACT AWAY FROM WALL FACE.
3. PRESSURES ARE BASED ON A MINIMUM AREA OF 100 SQ FT.

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TGRWA STRUCTURAL ENGINEERS
kW Mission Critical Engineering Member of WSP
EP ENGINEERING PLUS
Kimley»Horn

ISSUES		
1		
2	12/12/2025	SCHEMATIC DESIGN
3	12/17/2025	STEEL MILL ORDER
4	01/23/2026	DESIGN DEVELOPMENT
5		
6		
7		
8		
9		
10		
11		
12		
13		

REVISIONS

NOT FOR CONSTRUCTION

This document is incomplete and may not be used for regulatory approval, permit or construction.

Date of issue: 01/23/2026

SF - ARK01
DESIGN DEVELOPMENT

CLARKSVILLE, AR 72830

L K J
G E C A
H F D B
P N M
NORTH

STRUCTURAL LOADING

JOB 25131
SHEET

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