

# DESIGN CRITERIA

1. GOVERNING BUILDING CODES (INCLUDES STATE AND LOCAL AMENDMENTS)
  - A. 2018 INTERNATIONAL BUILDING CODE
  - B. 2018 INTERNATIONAL EXISTING BUILDING CODE
  - C. 2018 INTERNATIONAL RESIDENTIAL CODE
  
2. WIND DESIGN CRITERIA
 

A. ULTIMATE WIND SPEED ( $V_{ult}$ )	115 MPH
B. NOMINAL DESIGN WIND SPEED ( $V_{asd}$ )	89 MPH
C. EXPOSURE CATEGORY	B
D. INTERNAL PRESSURE COEFFICIENT	+/- 0.18
  
3. SEISMIC DESIGN CATEGORY
 

A. RISK CATEGORY	II
B. SEISMIC IMPORTANCE FACTOR ( $I_e$ )	1.0
C. SITE CLASS	D
D. SEISMIC DESIGN CATEGORY	C
  
4. DEAD LOADS
 

A. ROOF	6 PSF
B. CEILINGS	6 PSF
C. FLOOR	6 PSF
  
5. LIVE LOADS
 

A. ROOF	20 PSF
B. CORRIDORS	100 PSF
C. STAIRS	100 PSF
D. LIVING AREAS	40 PSF
E. BEDROOMS	30 PSF
  
6. SNOW LOADS
 

A. GROUND SNOW LOAD ( $P_g$ )	10 PSF
B. FLAT ROOF SNOW LOAD ( $P_f$ )	10 PSF
C. SLOPED ROOF SNOW LOAD ( $P_s$ )	8 PSF
D. SNOW IMPORTANCE FACTOR ( $I_s$ )	1.0
E. SNOW EXPOSURE FACTOR ( $C_e$ )	1.0
F. SNOW THERMAL FACTOR ( $C_t$ )	1.0
  
7. ASSUMED FOUNDATION DESIGN CRITERIA
 

A. NET ALLOWABLE SOIL BEARING FOR SPREAD FOOTINGS	1500 PSF
B. NET ALLOWABLE SOIL BEARING FOR CONT FOOTINGS	1500 PSF
C. CODE MINIMUM BEARING DEPTH	30 INCHES

## National Flood Hazard Layer FIRMette



**Legend**

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

<p><b>SPECIAL FLOOD HAZARD AREAS</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0f0ff; border: 1px solid black; margin-right: 5px;"></span> Without Base Flood Elevation (BFE) <small>Zone A, V, A99</small></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #fff9c4; border: 1px solid black; margin-right: 5px;"></span> With BFE or Depth <small>Zone AE, AO, AH, VE, AR</small></li> <li><span style="display: inline-block; width: 15px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, red 2px, red 4px); border: 1px solid black; margin-right: 5px;"></span> Regulatory Floodway</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffcc99; border: 1px solid black; margin-right: 5px;"></span> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <small>Zone X</small></li> <li><span style="display: inline-block; width: 15px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, gray 2px, gray 4px); border: 1px solid black; margin-right: 5px;"></span> Future Conditions 1% Annual Chance Flood Hazard <small>Zone X</small></li> <li><span style="display: inline-block; width: 15px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, orange 2px, orange 4px); border: 1px solid black; margin-right: 5px;"></span> Area with Reduced Flood Risk due to Levee. See Notes. <small>Zone X</small></li> <li><span style="display: inline-block; width: 15px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, yellow 2px, yellow 4px); border: 1px solid black; margin-right: 5px;"></span> Area with Flood Risk due to Levee <small>Zone D</small></li> </ul>
<p><b>OTHER AREAS OF FLOOD HAZARD</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #fff9c4; border: 1px solid black; margin-right: 5px;"></span> Area of Minimal Flood Hazard <small>Zone X</small></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #fff9c4; border: 2px solid blue; margin-right: 5px;"></span> Effective LOMRs</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #fff9c4; border: 1px solid orange; margin-right: 5px;"></span> Area of Undetermined Flood Hazard <small>Zone D</small></li> </ul>	<p><b>OTHER AREAS</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px dashed black; margin-right: 5px;"></span> Channel, Culvert, or Storm Sewer</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px solid black; margin-right: 5px;"></span> Levee, Dike, or Floodwall</li> </ul>
<p><b>GENERAL STRUCTURES</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px dashed black; margin-right: 5px;"></span> Cross Sections with 1% Annual Chance Water Surface Elevation</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px dashed black; margin-right: 5px;"></span> Coastal Transect</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px solid black; margin-right: 5px;"></span> Base Flood Elevation Line (BFE)</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px solid red; margin-right: 5px;"></span> Limit of Study</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px solid yellow; margin-right: 5px;"></span> Jurisdiction Boundary</li> </ul>	<p><b>OTHER FEATURES</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px dashed black; margin-right: 5px;"></span> Coastal Transect Baseline</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px solid blue; margin-right: 5px;"></span> Profile Baseline</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 2px solid blue; margin-right: 5px;"></span> Hydrographic Feature</li> </ul>
<p><b>MAP PANELS</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid green; margin-right: 5px;"></span> Digital Data Available</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid gray; margin-right: 5px;"></span> No Digital Data Available</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px dashed gray; margin-right: 5px;"></span> Unmapped</li> </ul>	<p>The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.</p>

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/1/2024 at 1:26 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

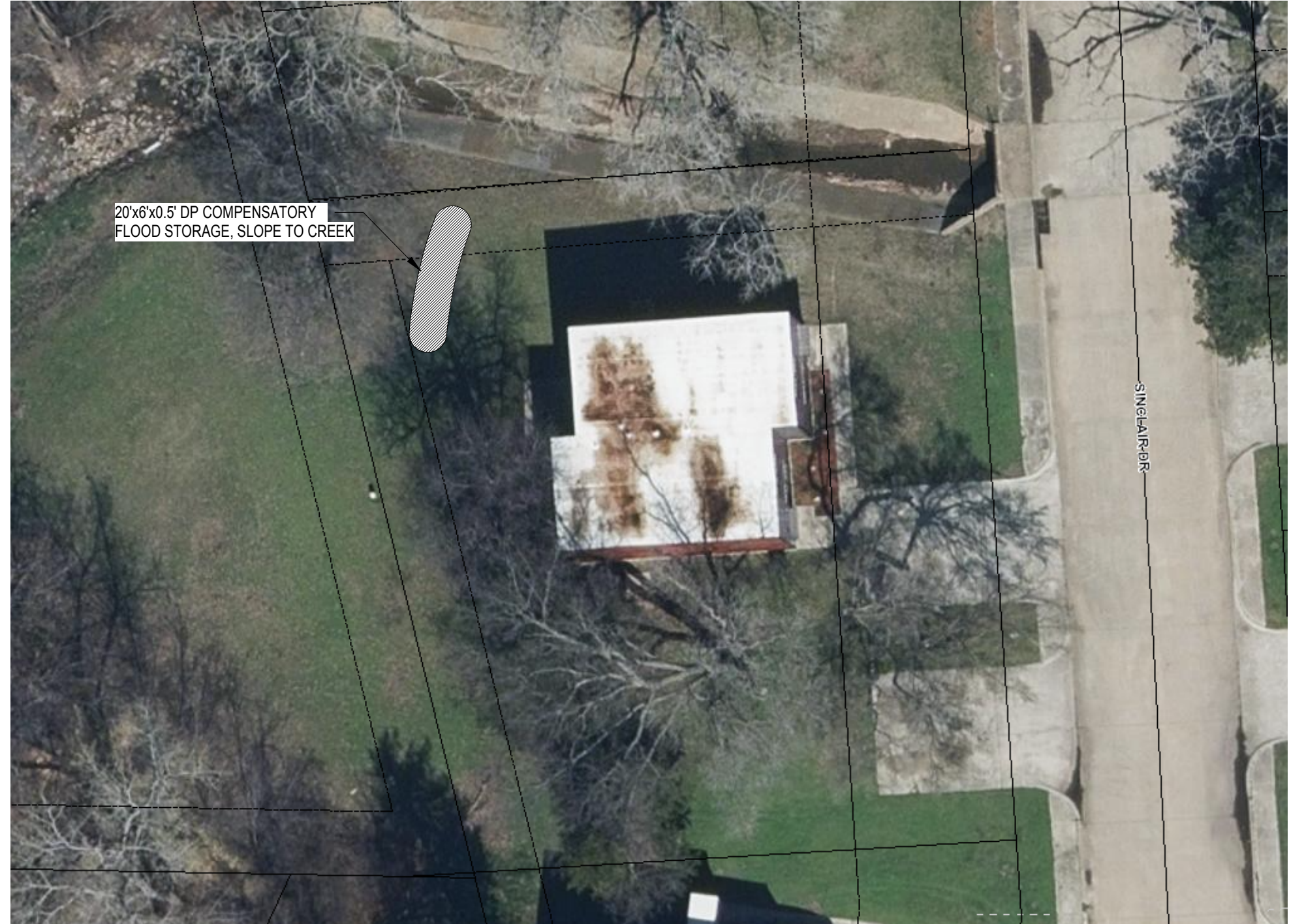


PROJECT: 624-626 SINCLAIR DRIVE  
 624-626 SINCLAIR DR  
 NORMAN, OK 73072  
 CLIENT: RESILIENT VISIONARY INVESTMENTS, LLC

0001  
 EVALUATION AND DESIGN CRITERIA

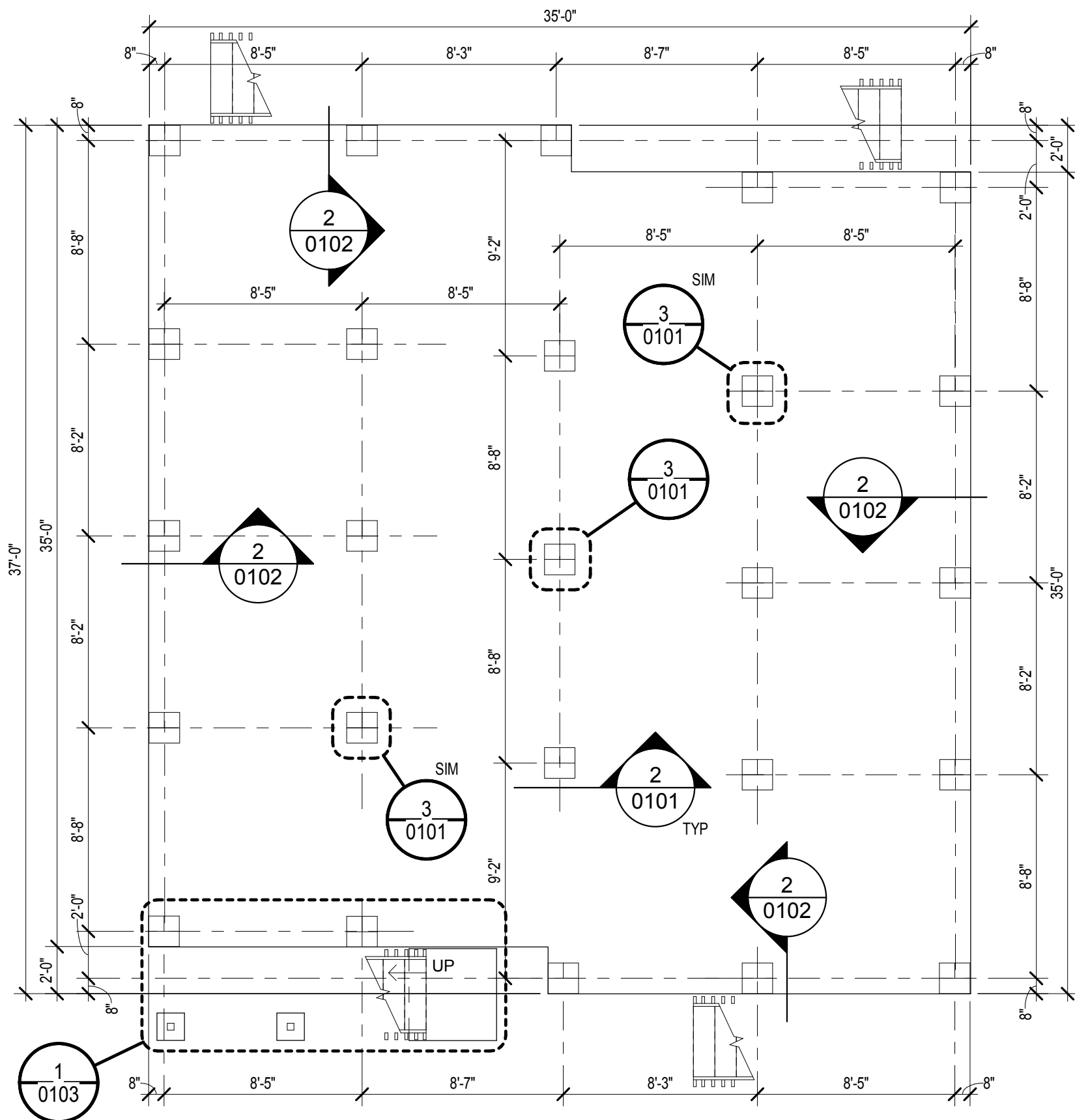
## FLOOD ZONE CRITERIA

1. BASE FLOOD ELEVATION CRITERIA
  - A. BASE FLOOD ELEVATION (BFE): 1164.00 FEET
  - B. LOWEST GRADE LEVEL: 1162.08 FEET
  - C. VERTICAL DISTANCE IMPACTED BELOW BFE: 1.2 FEET  
(FROM LOWEST GRADE TO BFE)
  
2. PREVIOUS CONSTRUCTION
  - A. AREA IN FLOOD ZONE: 1227.00 SQ. FT.
  - B. VOLUME BELOW BFE: 1472.00 CU. FT.
  
3. PROPOSED ELEVATED CONSTRUCTION:
  - A. OPEN CONSTRUCTION REQUIREMENTS:
    - a. NOT ENCLOSED
    - b. (25) 1'-4"X1'-4" PILASTERS 44.42 SQ. FT.
    - c. (8) 4X4 POSTS 0.68 SQ. FT.
    - d. (8) 2X12 STAIR STRINGER 0.94 SQ. FT.
    - e. TOTAL AREA: 46.04 SQ. FT.
    - f. VOLUME BELOW BFE: 55.25 CU. FT.
  
  - B. ENCLOSED CONSTRUCTION REQUIREMENTS:
    - a. AREA OF ENCLOSED CRAWL SPACE: 1472.00 CU. FT.
  
4. FLOOR REMEDIATION REQUIREMENTS:
  - A. FLOOD VENTING REQUIREMENTS: 1472.00 SQ. IN.
  - B. COMPENSATORY STORAGE REQUIREMENTS: 55.25 SQ. FT.
  - C. COMPENSATORY STORAGE PROVIDED: 60.00 SQ. FT.  
(20 FOOT LONG BY 6 FOOT WIDE BY 6" DEEP SWALE DRAINING TOWARDS CREEK ON THE NORTHWEST SIDE OF THE PROPERTY)



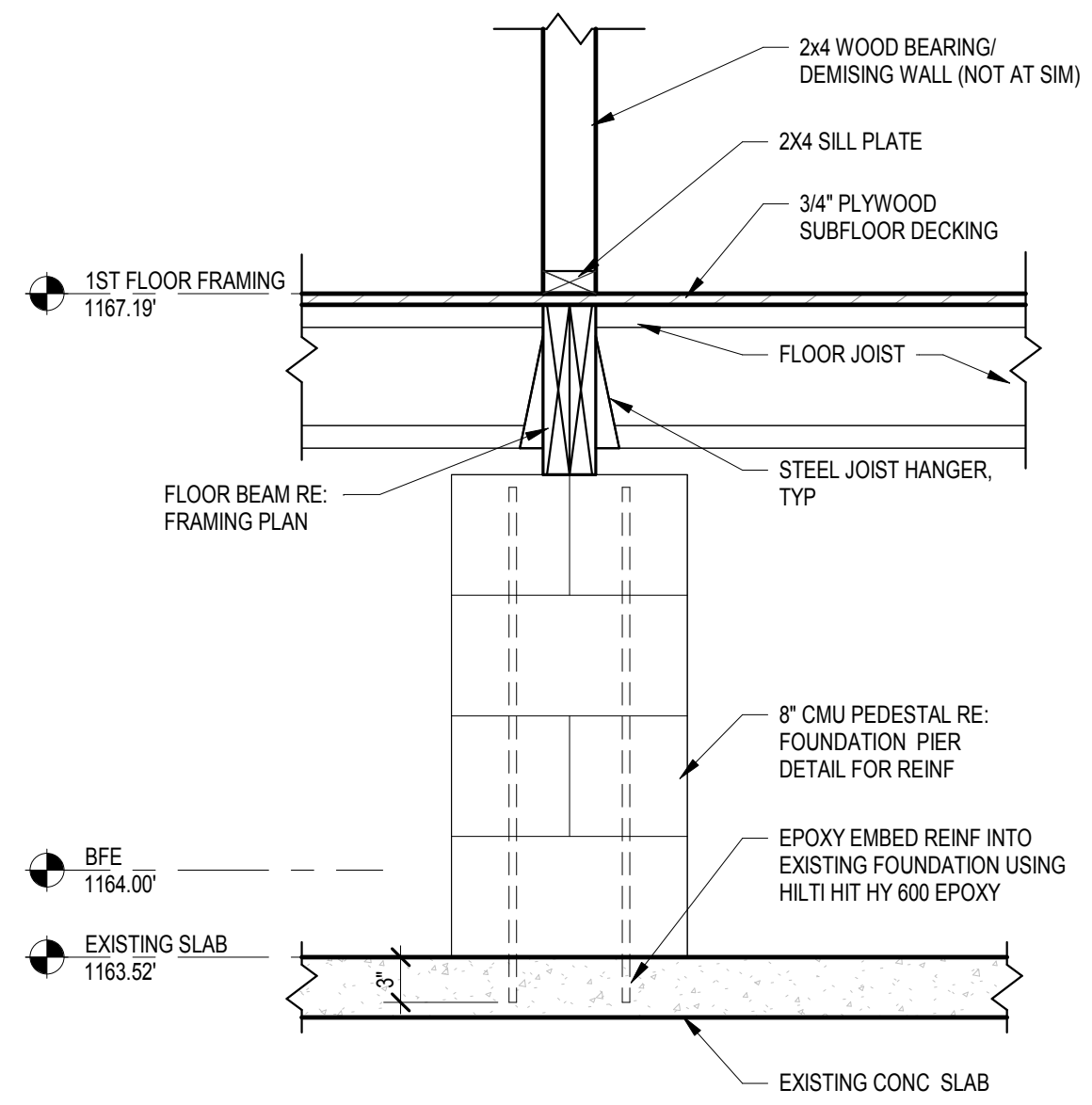
**1** **SITE LAYOUT**  
SCALE: 1" = 20'-0"



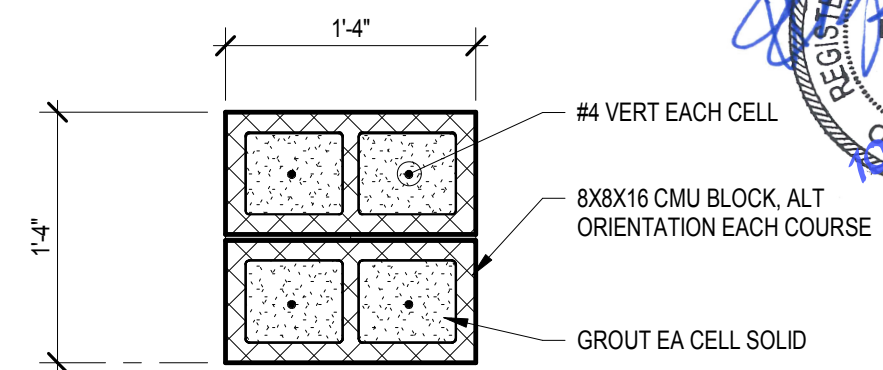


**1 FOUNDATION PLAN**  
SCALE: 3/16" = 1'-0"

- FLOOR RELIEF OPENINGS FOR OPTIONAL FOUNDATION ENCLOSURE:
- PROVIDE A TOTAL OF 1227 SQ. IN. OF FLOOD RELIEF OPENINGS ON FOUR SIDES OF THE HOME.
  - FLOOR RELIEF OPENINGS CANNOT BE PLACE HIGHER THAN 1'-0" ABOVE ADJACENT GRADE
  - PROVIDE A MINIMUM OF 2 OPENINGS PER SIDE OF THE STRUCTURE

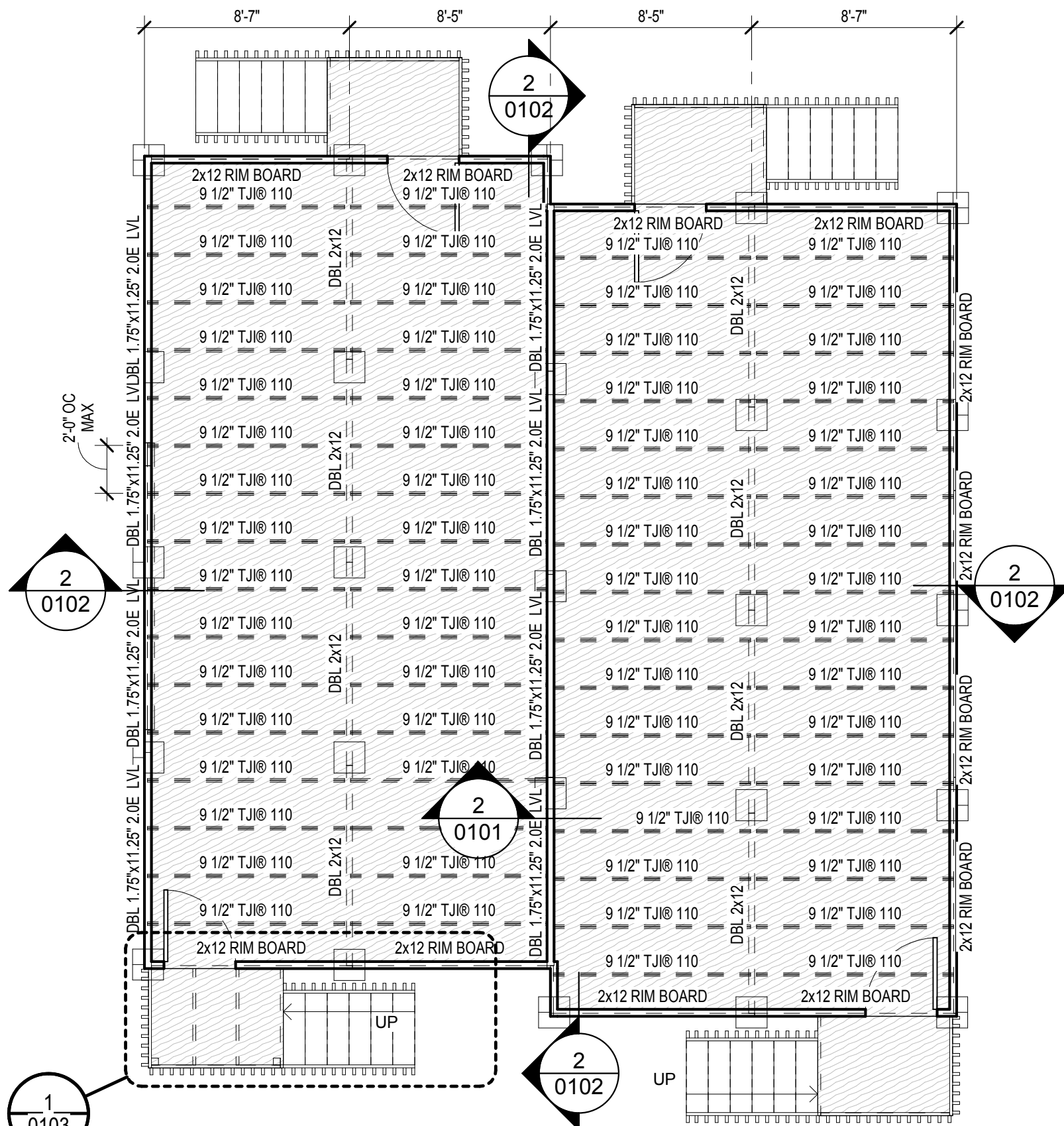


**2 PEDESTAL ELEVATION**  
SCALE: 1" = 1'-0"



**3 CMU FOUNDATION PIER**  
SCALE: 1" = 1'-0"

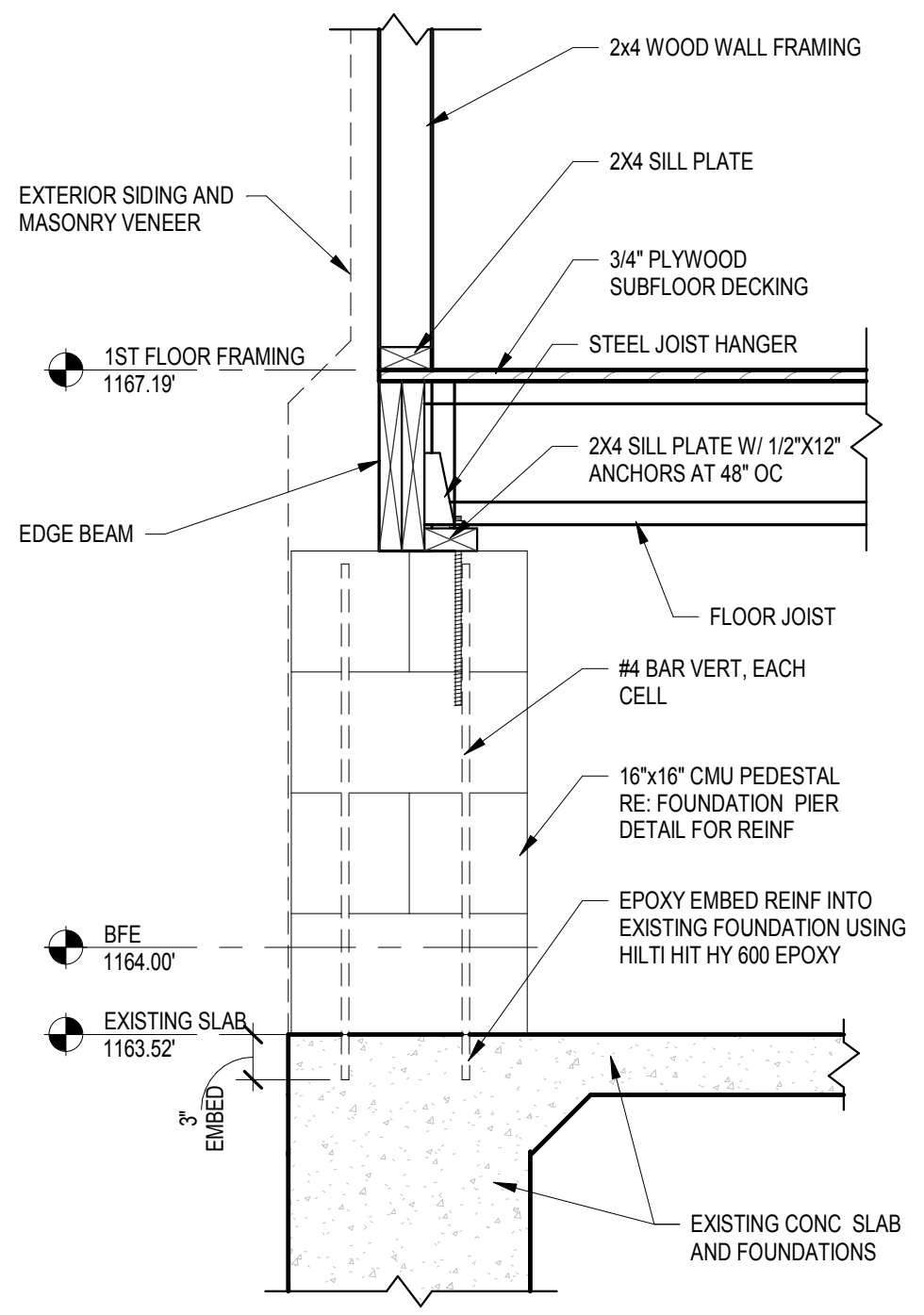




1  
0103  
TYP AT STAIRS

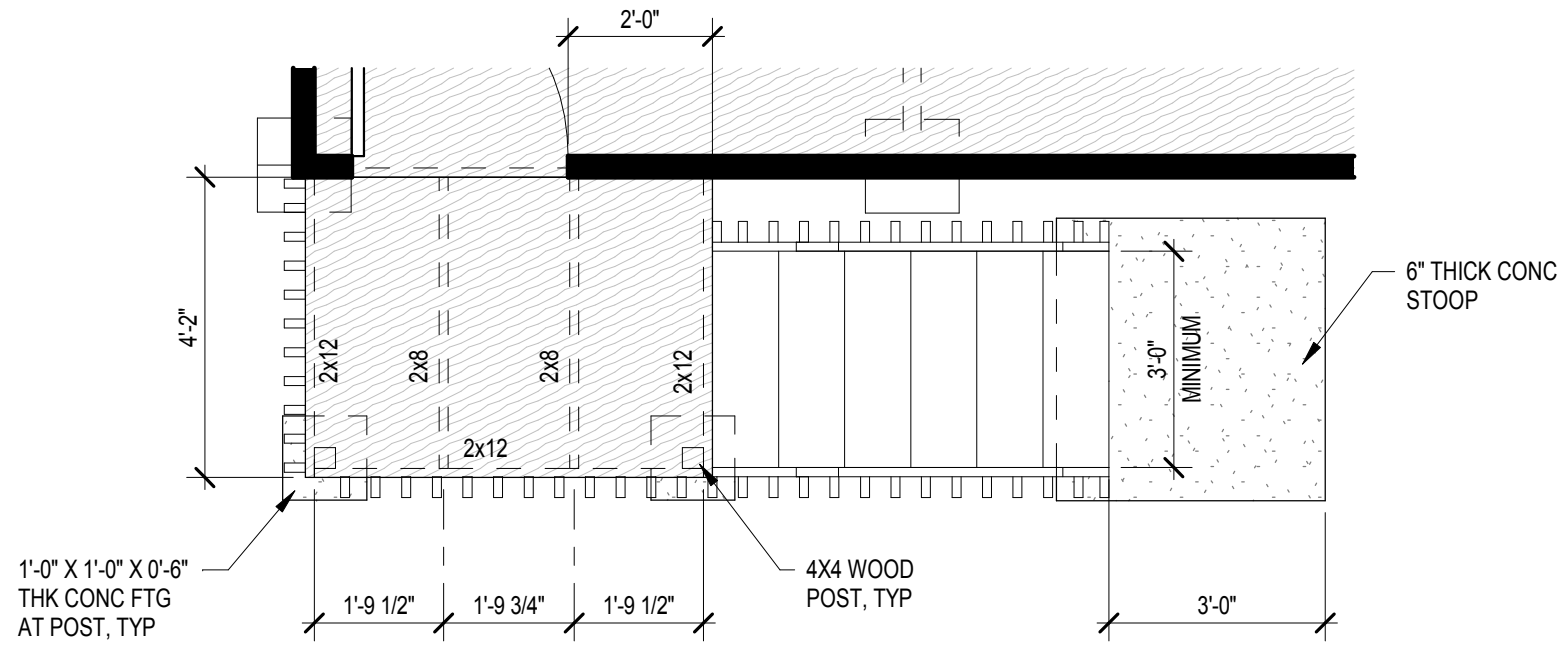
1  
1ST FLOOR FRAMING  
SCALE: 3/16" = 1'-0"

- FLOOR RELIEF OPENINGS FOR OPTIONAL FOUNDATION ENCLOSURE:
- PROVIDE A TOTAL OF 1227 SQ. IN. OF FLOOD RELIEF OPENINGS ON FOUR SIDES OF THE HOME.
  - FLOOR RELIEF OPENINGS CANNOT BE PLACE HIGHER THAN 1'-0" ABOVE ADJACENT GRADE
  - PROVIDE A MINIMUM OF 2 OPENINGS PER SIDE OF THE STRUCTURE



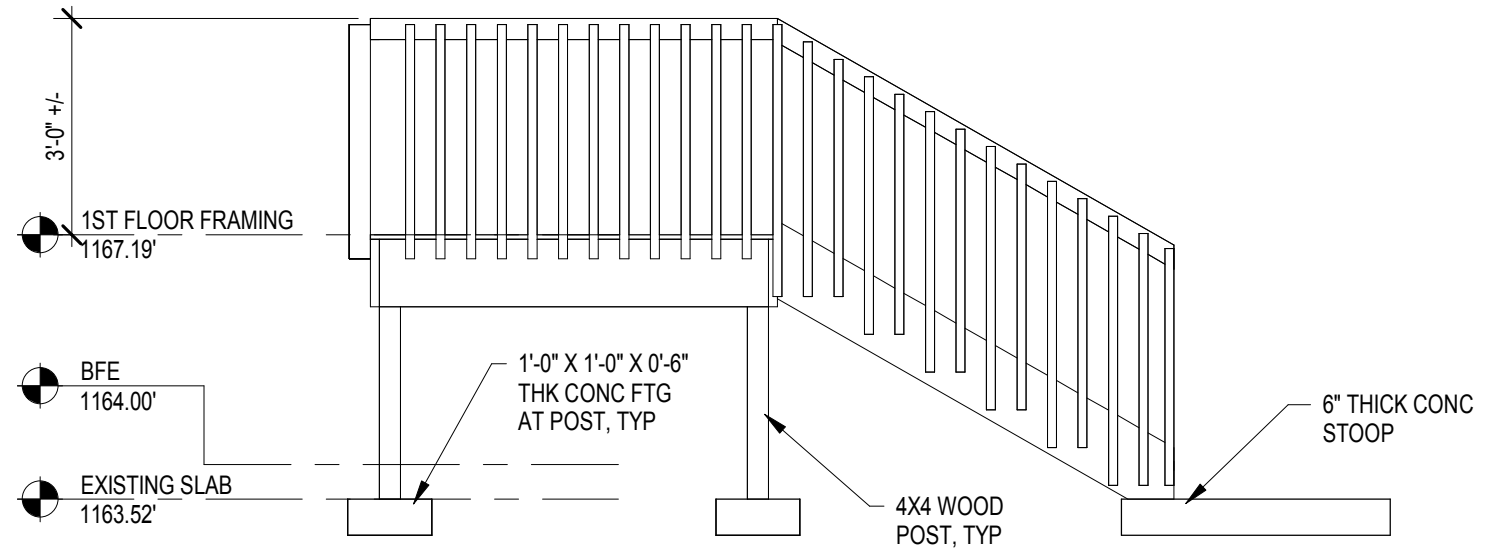
2  
WALL SECTION  
SCALE: 1" = 1'-0"





**ADA COMPLIANT STAIR:**  
 MATERIALS: NO 2 SYP OR BETTER  
 STRINGER: 2X12  
 TREADS: 2X12  
 MIN TREAD DEPTH: 11"  
 MIN RISER HT: 4"  
 MAX RISER HT: 7"  
 (ALL RISER HEIGHTS MUST BE UNIFORM)  
 HANDRAIL HEIGHT: 34" - 38" ABOVE TREAD OR LANDING

**1 EXTERIOR STAIR PLAN**  
 SCALE: 3/8" = 1'-0"



**2 EXTERIOR STAIR ELEVATION**  
 SCALE: 3/8" = 1'-0"

