

ePIC SVT - Possible cooling system locations at facility

Rev	Date	Author	Description
v1	2026-07-01	Joe Silber (LBNL)	initial concepts
v2	2026-07-08	Joe Silber (LBNL)	meeting annotations with BNL ePIC engineers
v3	2026-08-06	Joe Silber (LBNL)	implement changes from 2026-07-08 mtg

- References
1. [Live editable version of this documen](#)

2. [2026-05-20 - SVT WP4-6 mtg - Sizing of the SVT air cooling system - Silber.pptx.pdf](#)

- Notes
1. Labeled locations (green boxes) below are meant for discussion of likely locations in the facility for air cooling system components.

2. OUTDOOR zone:

a. Trailer-mounted, enclosed equipment (blower or compressor, dryer, etc)

b. Rejects heat to exterior environment (range ~ -11°C to +31°C, 99% central interval)

3. INDOOR zone:

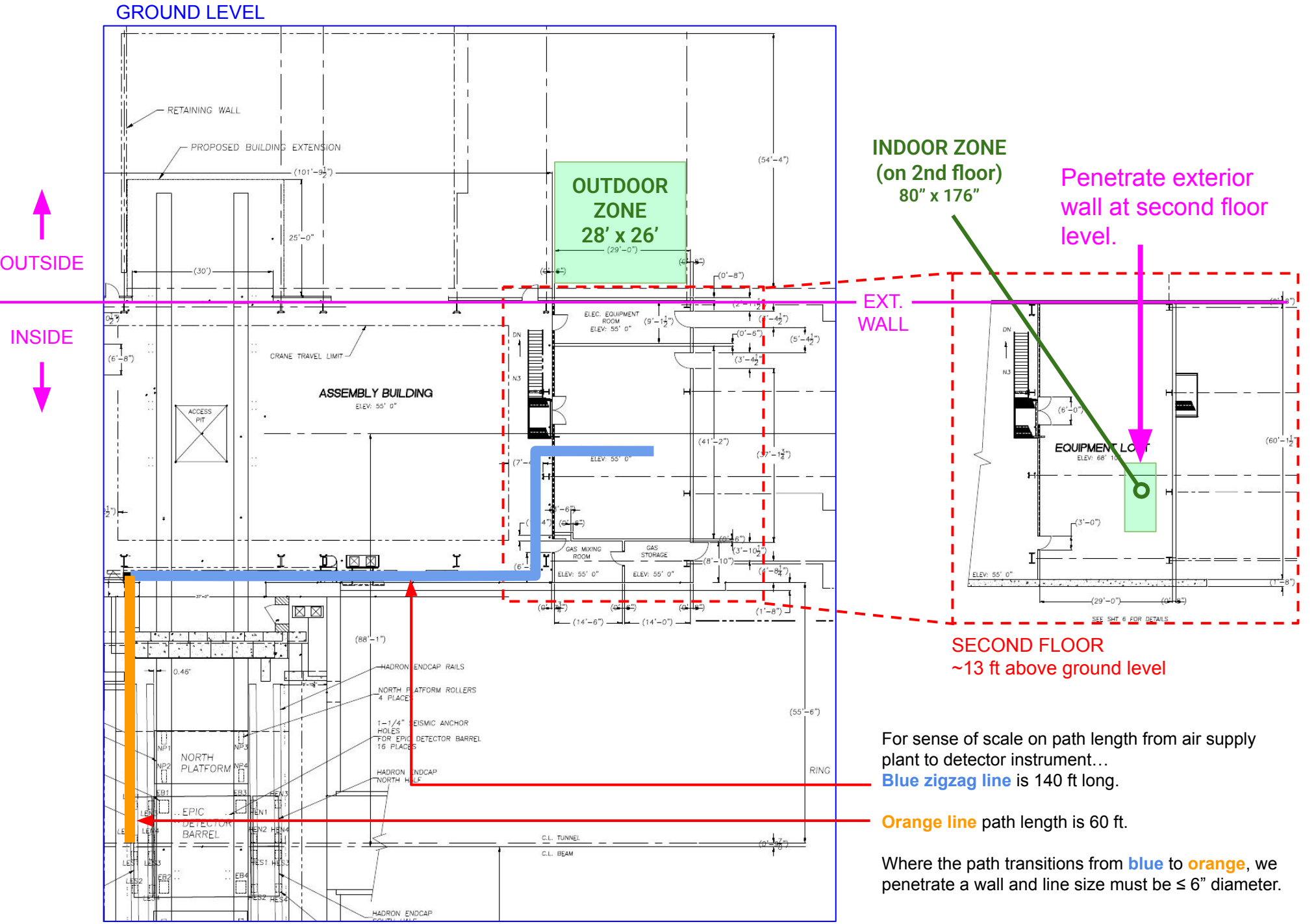
a. Refrigeration to desired setpoint

b. Rejects heat to facility-provided water at 18°C

4. These are not requirements, statements of need, nor guarantees of available space.

5. Dimensions are approximate.

6. Current best estimate of overall air cooling system size is ~ 500-1000 ft², depending on configuration.



Annotated facility photos from 2027-07-08 BNL/LBNL meeting:

