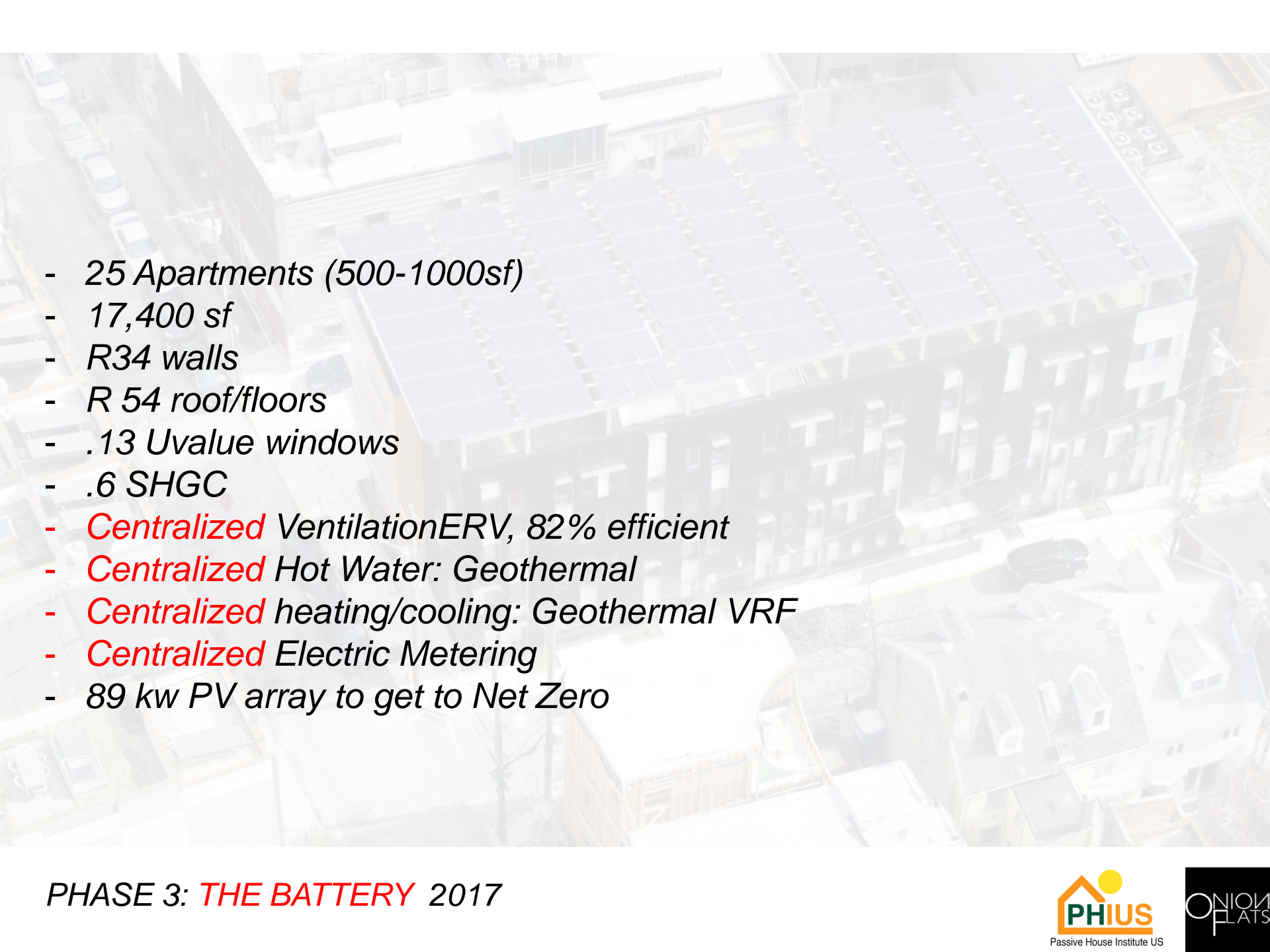


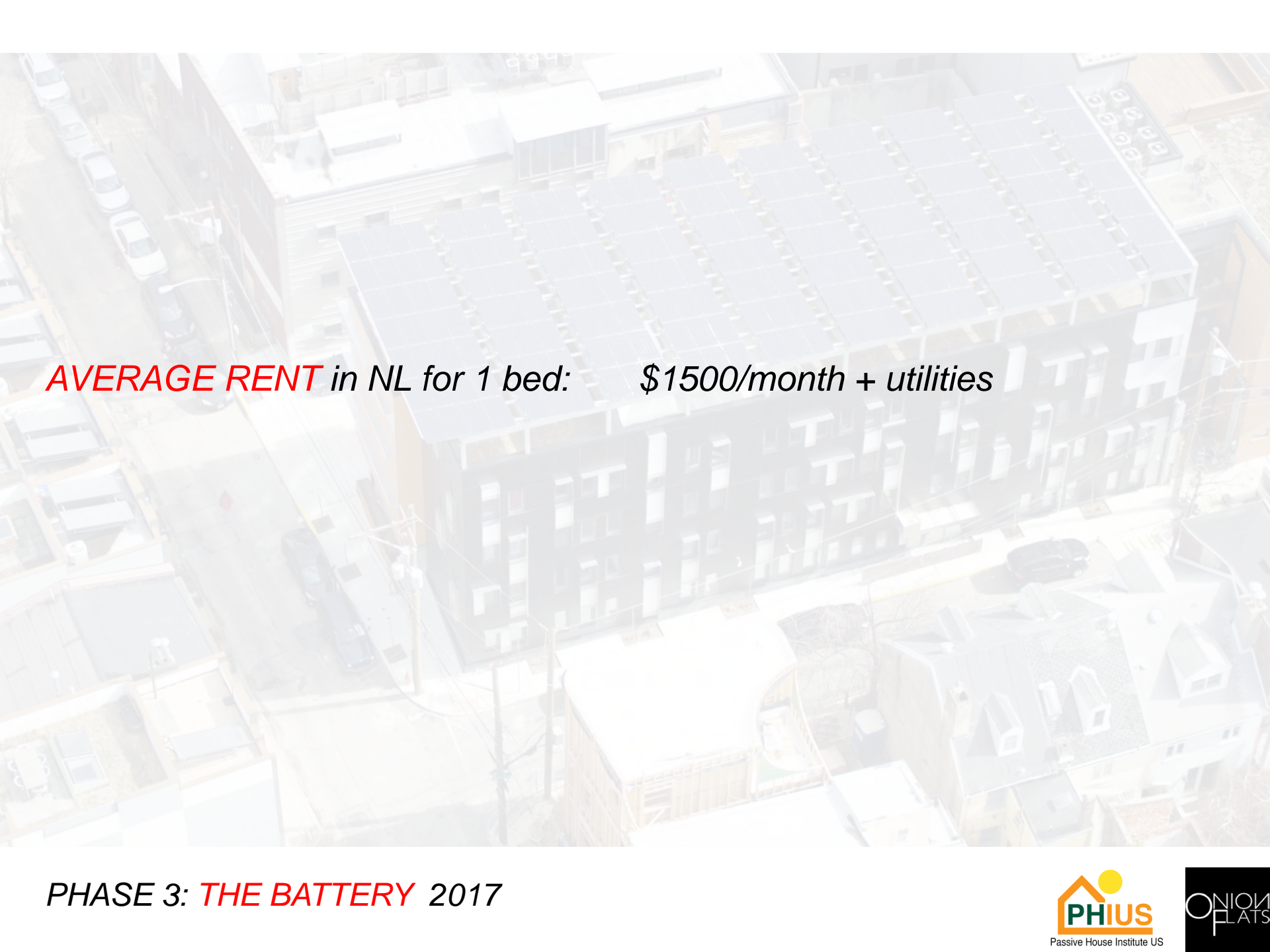


PHASE 3: *THE BATTERY* 2017



- 
- 25 Apartments (500-1000sf)
  - 17,400 sf
  - R34 walls
  - R 54 roof/floors
  - .13 Uvalue windows
  - .6 SHGC
  - **Centralized** VentilationERV, 82% efficient
  - **Centralized** Hot Water: Geothermal
  - **Centralized** heating/cooling: Geothermal VRF
  - **Centralized** Electric Metering
  - 89 kw PV array to get to Net Zero

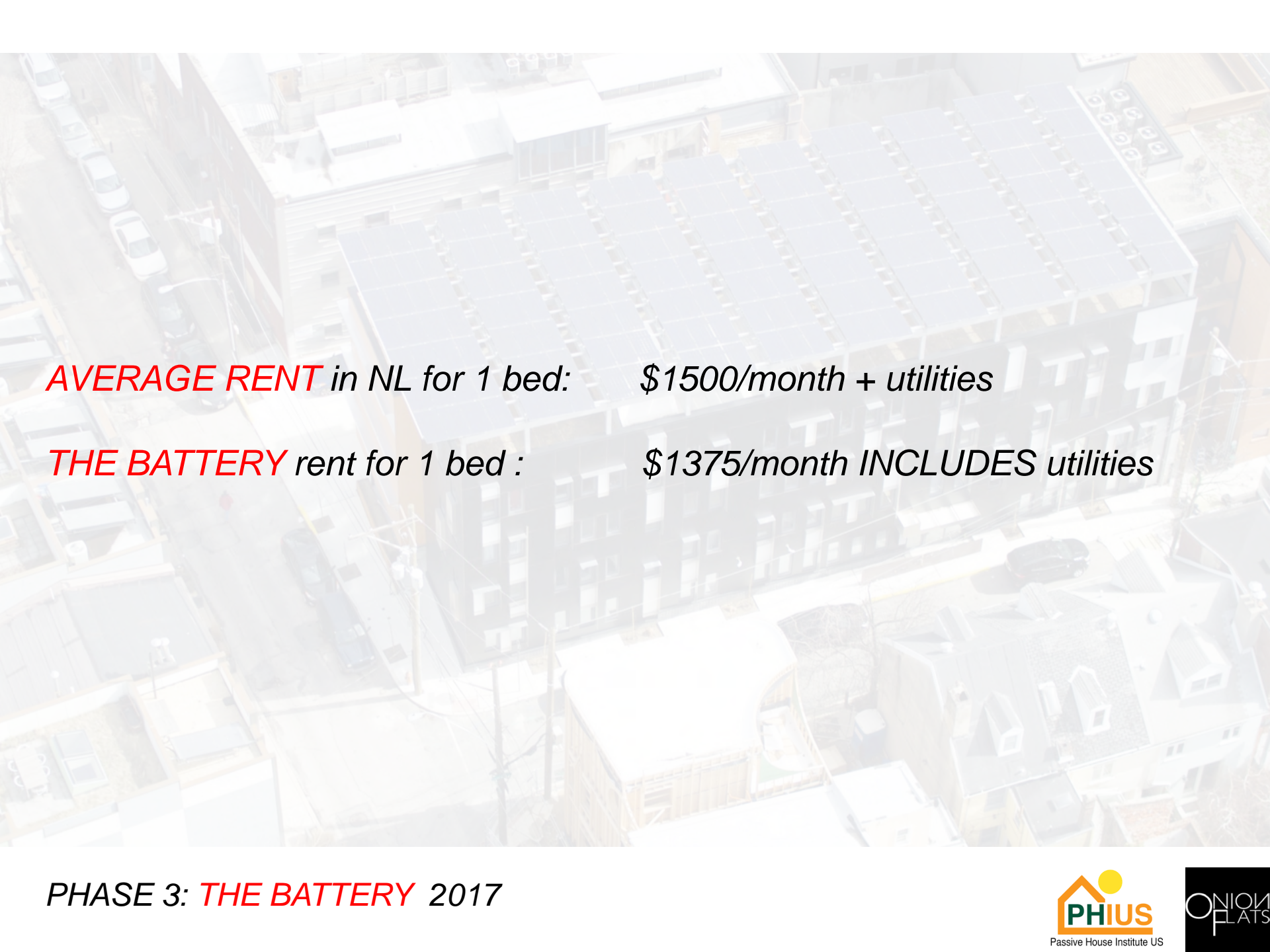
PHASE 3: **THE BATTERY** 2017

An aerial photograph of a multi-story residential building with a flat roof covered in solar panels. The building is surrounded by other urban structures and streets. The text is overlaid on the image.

***AVERAGE RENT*** in NL for 1 bed:     ***\$1500/month + utilities***

**PHASE 3: *THE BATTERY* 2017**

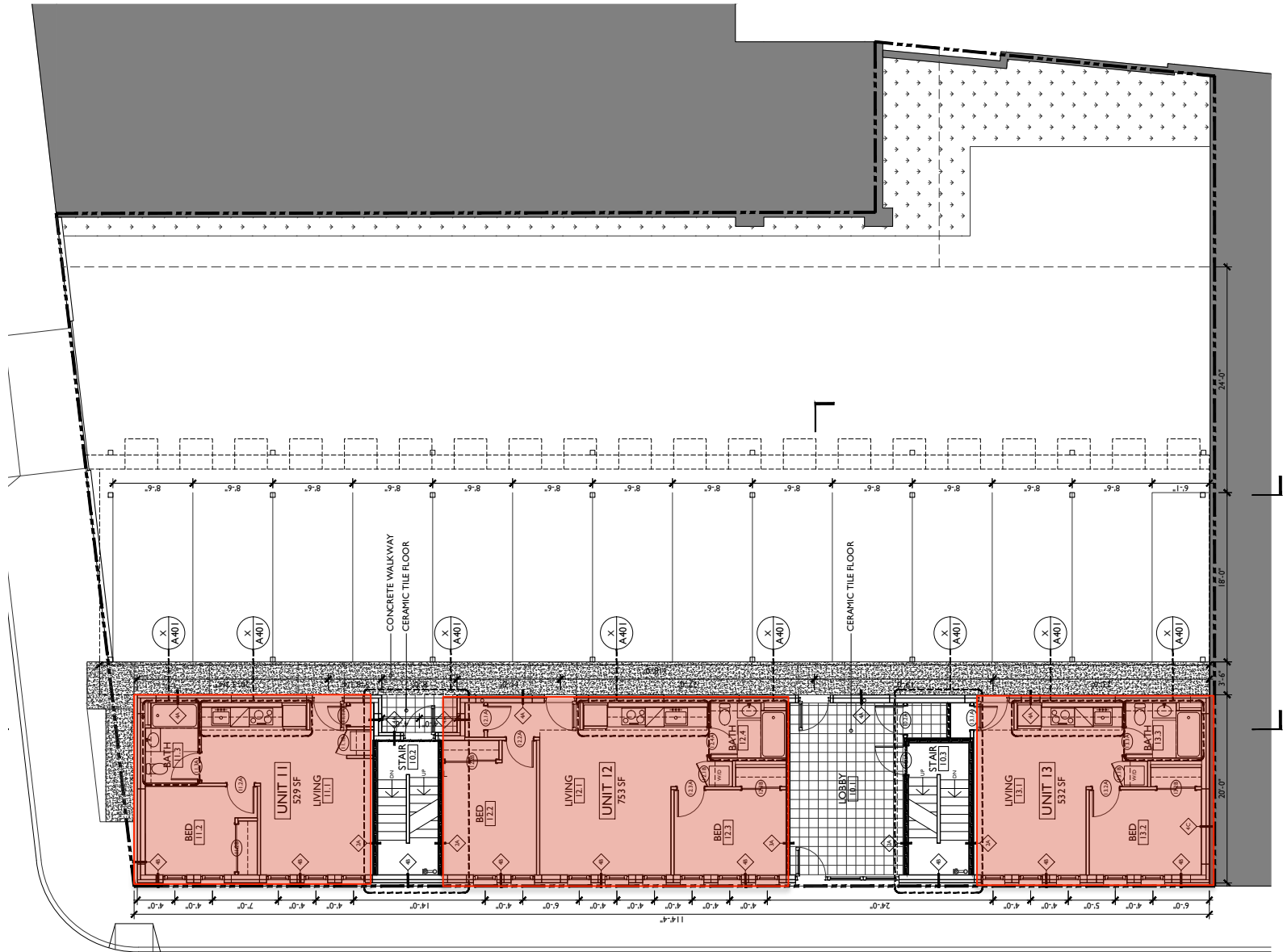




**AVERAGE RENT** in NL for 1 bed: \$1500/month + utilities

**THE BATTERY** rent for 1 bed : \$1375/month **INCLUDES** utilities

PHASE 3: **THE BATTERY** 2017



↔ NO PARKING ↔

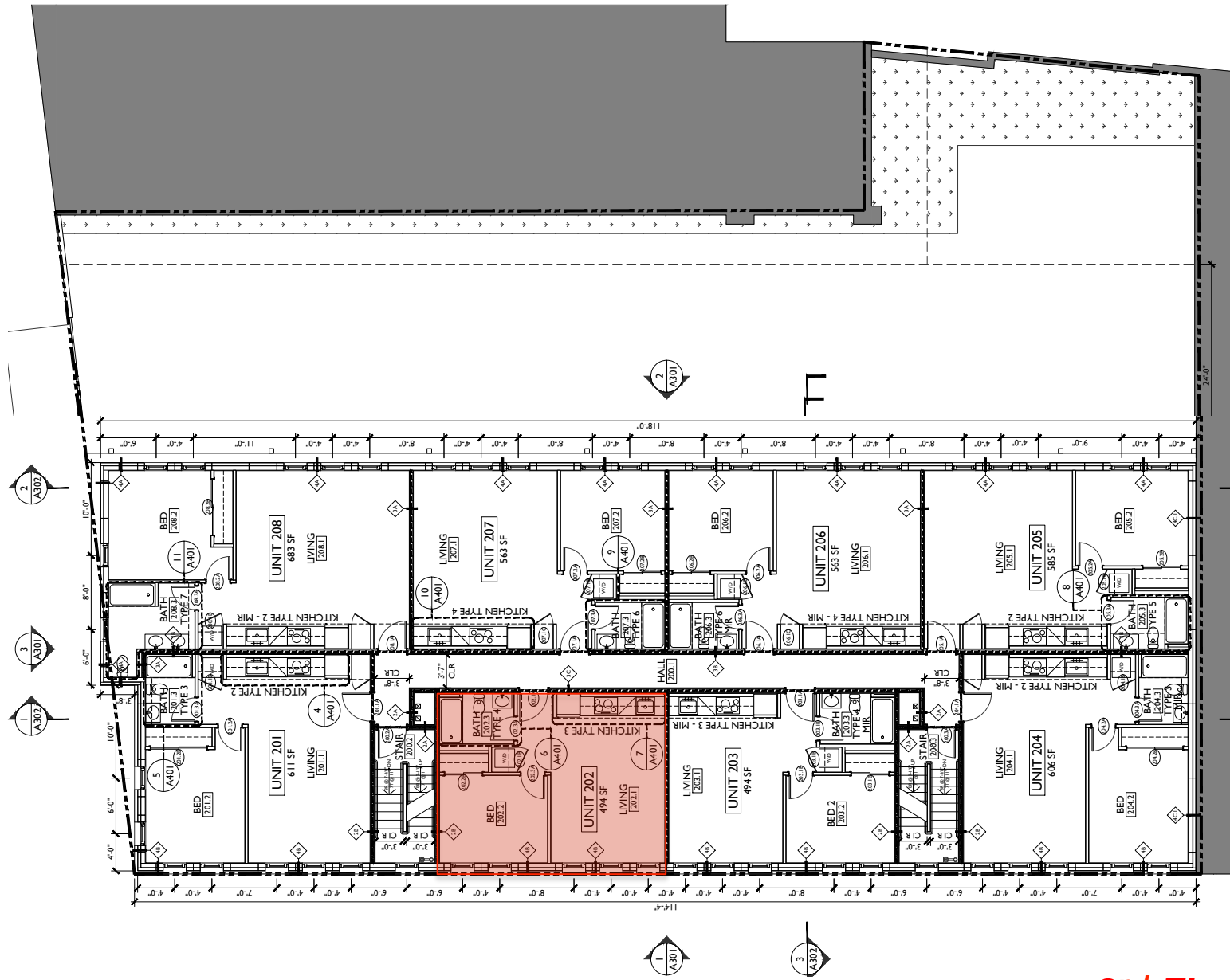
30' WIDE - LEGALLY OPEN  
7' - 16' - 7"



**1st Floor**

**PHASE 3: THE BATTERY 2017**

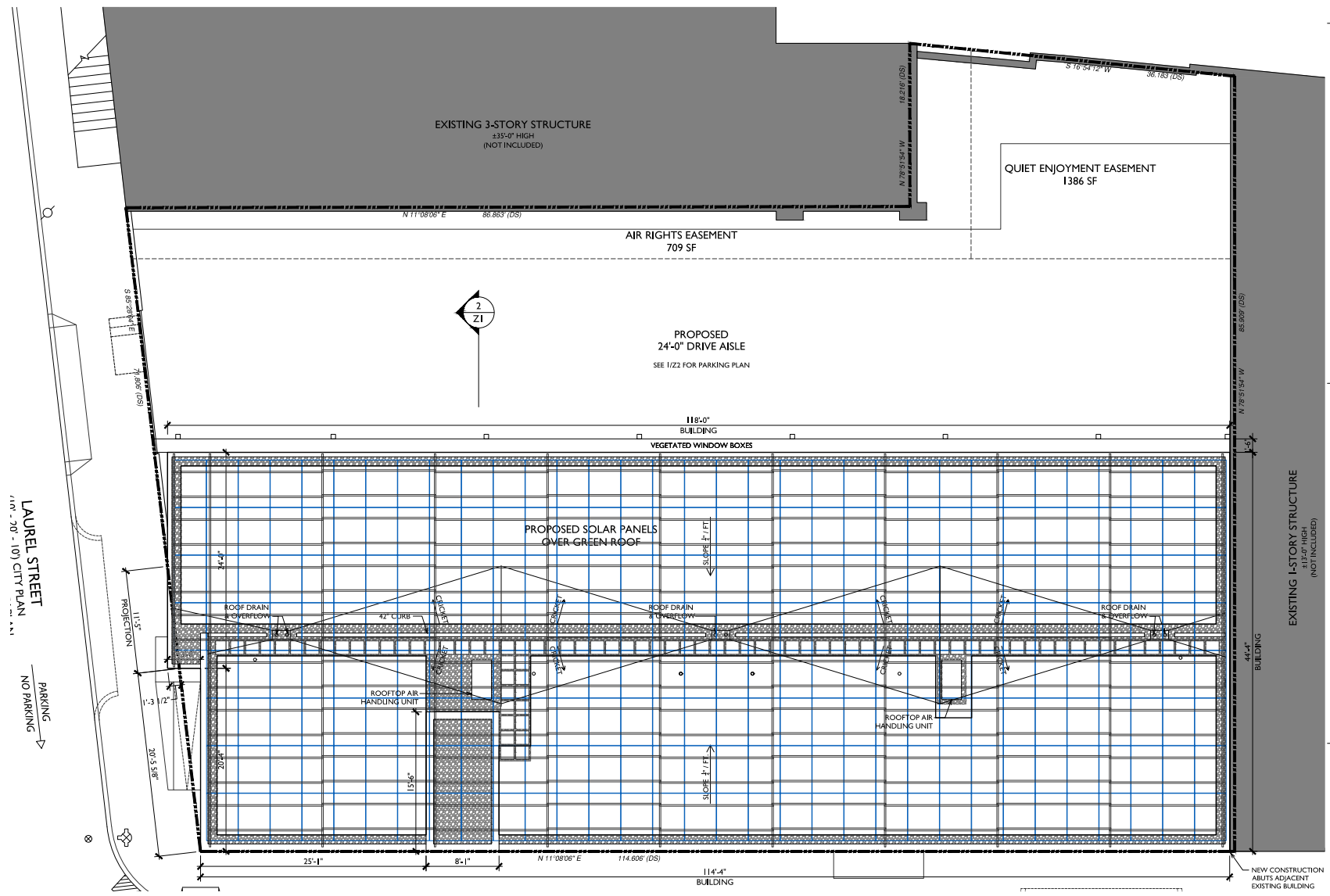




**PHASE 3: THE BATTERY 2017**

**2<sup>nd</sup> Floor**





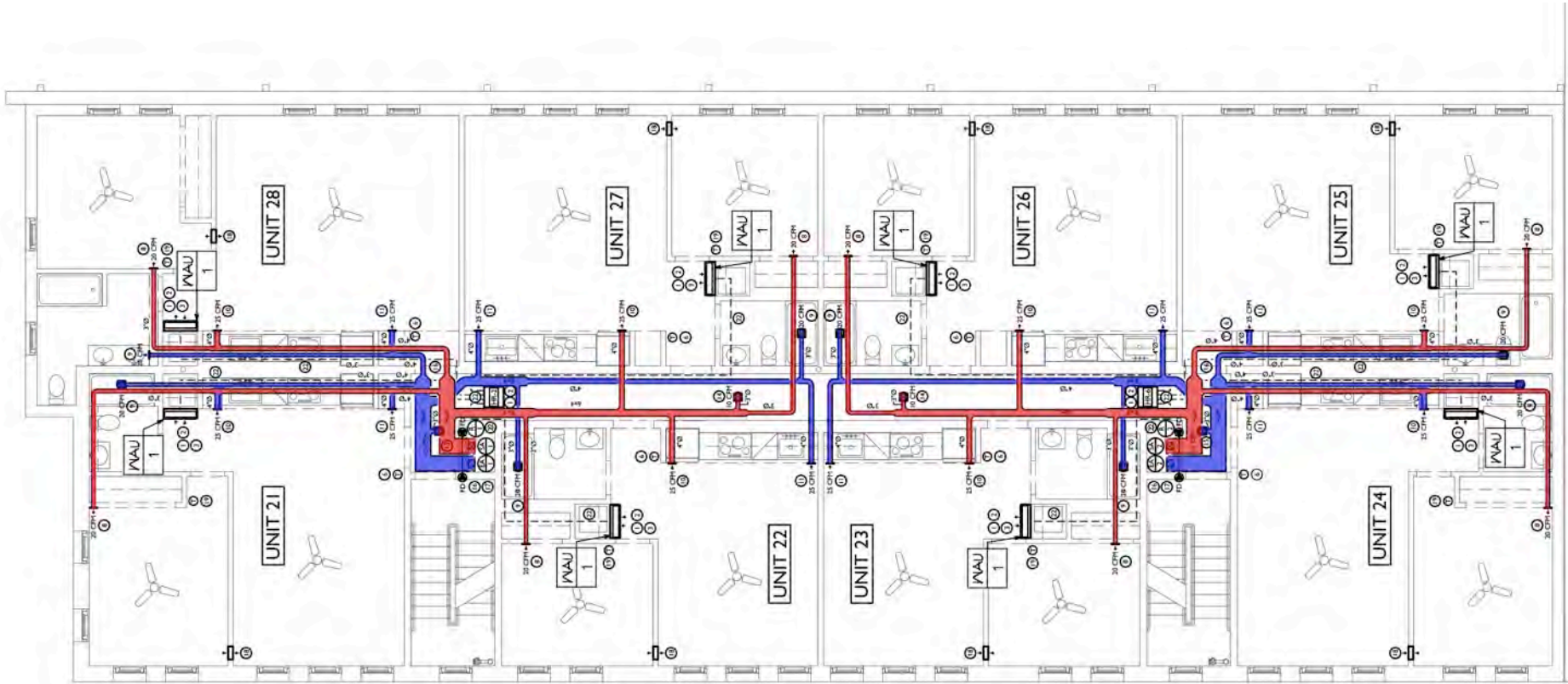
LAUREL STREET  
1/4" = 30' - 10" CITY PLAN

PARKING  
NO PARKING

# PHASE 3: THE BATTERY 2017

**ROOF**



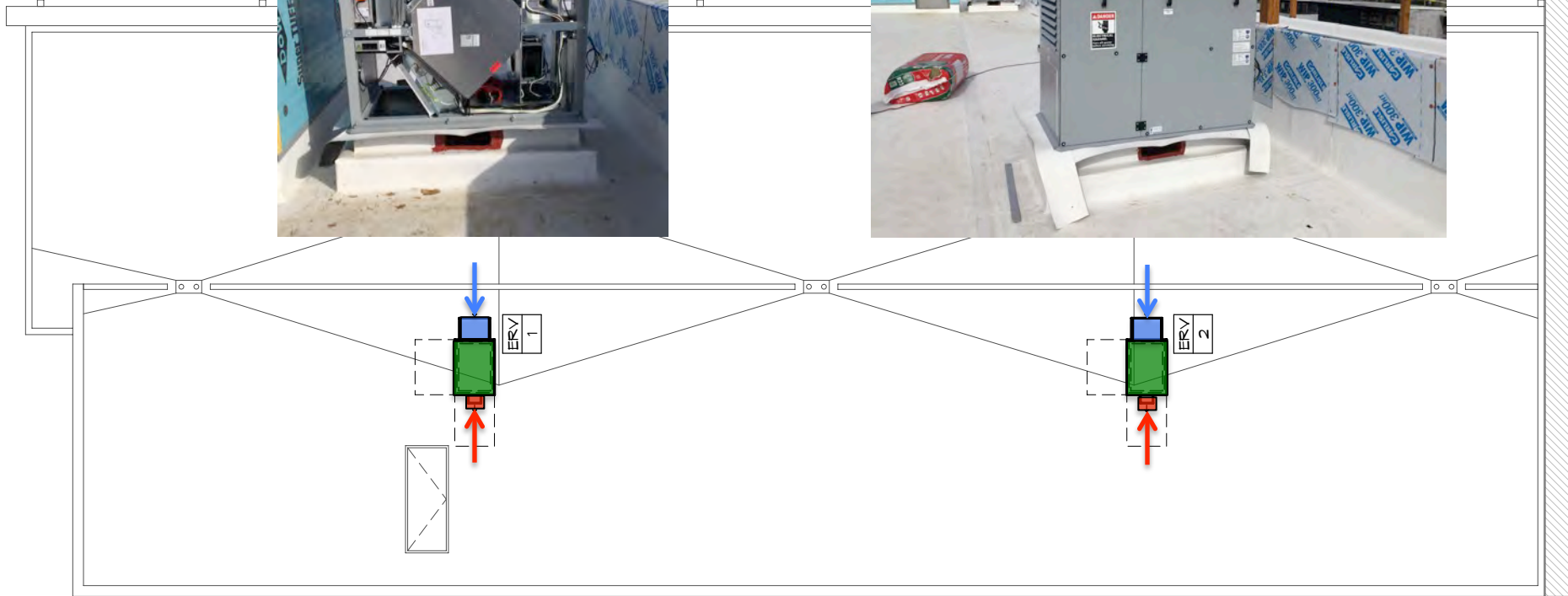


2nd-4th Floors

Balanced/Centralized Ventilation

PHASE 3: **THE BATTERY** 2017: 2 ERVs, 82% efficient

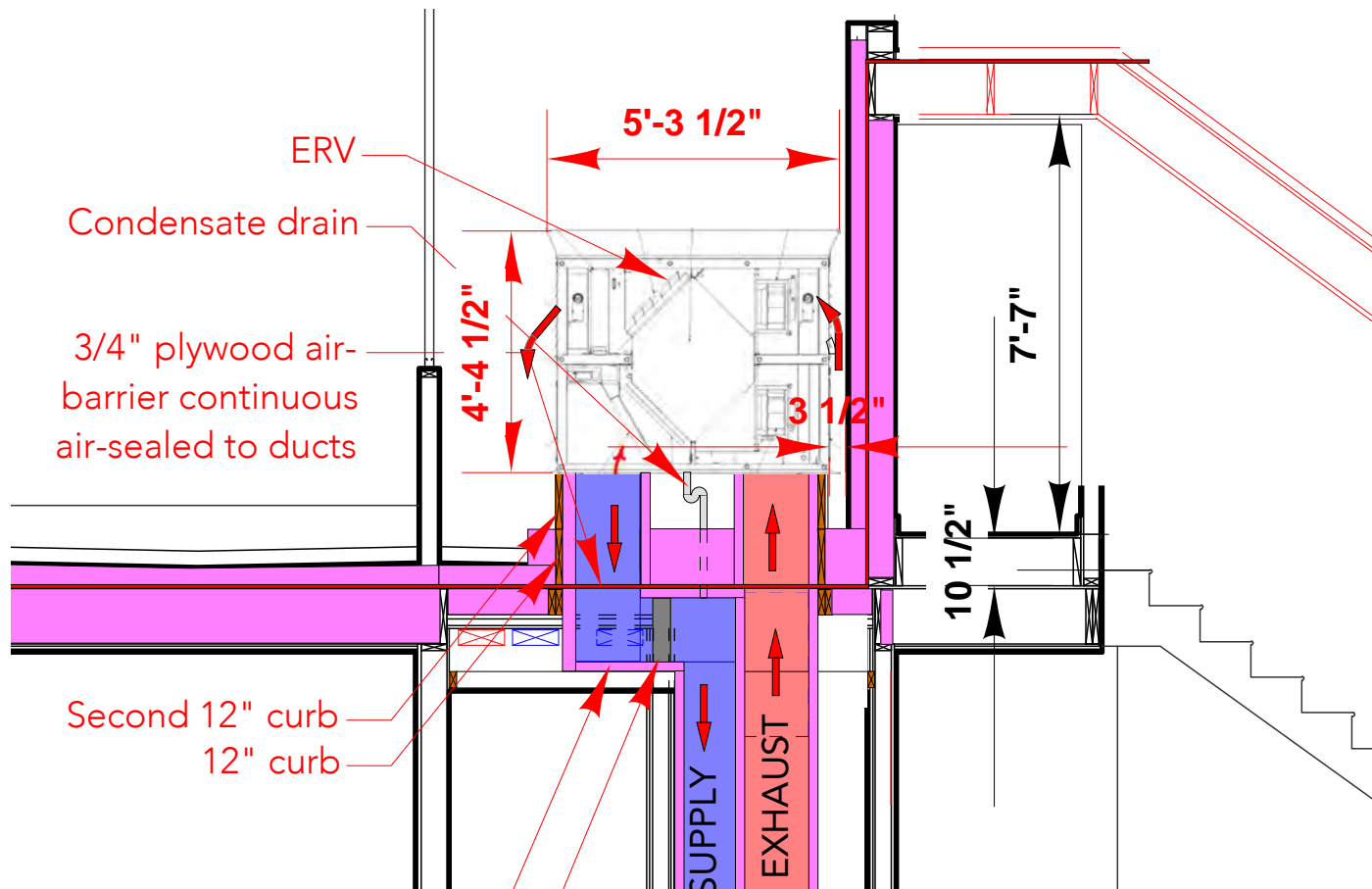




Roof

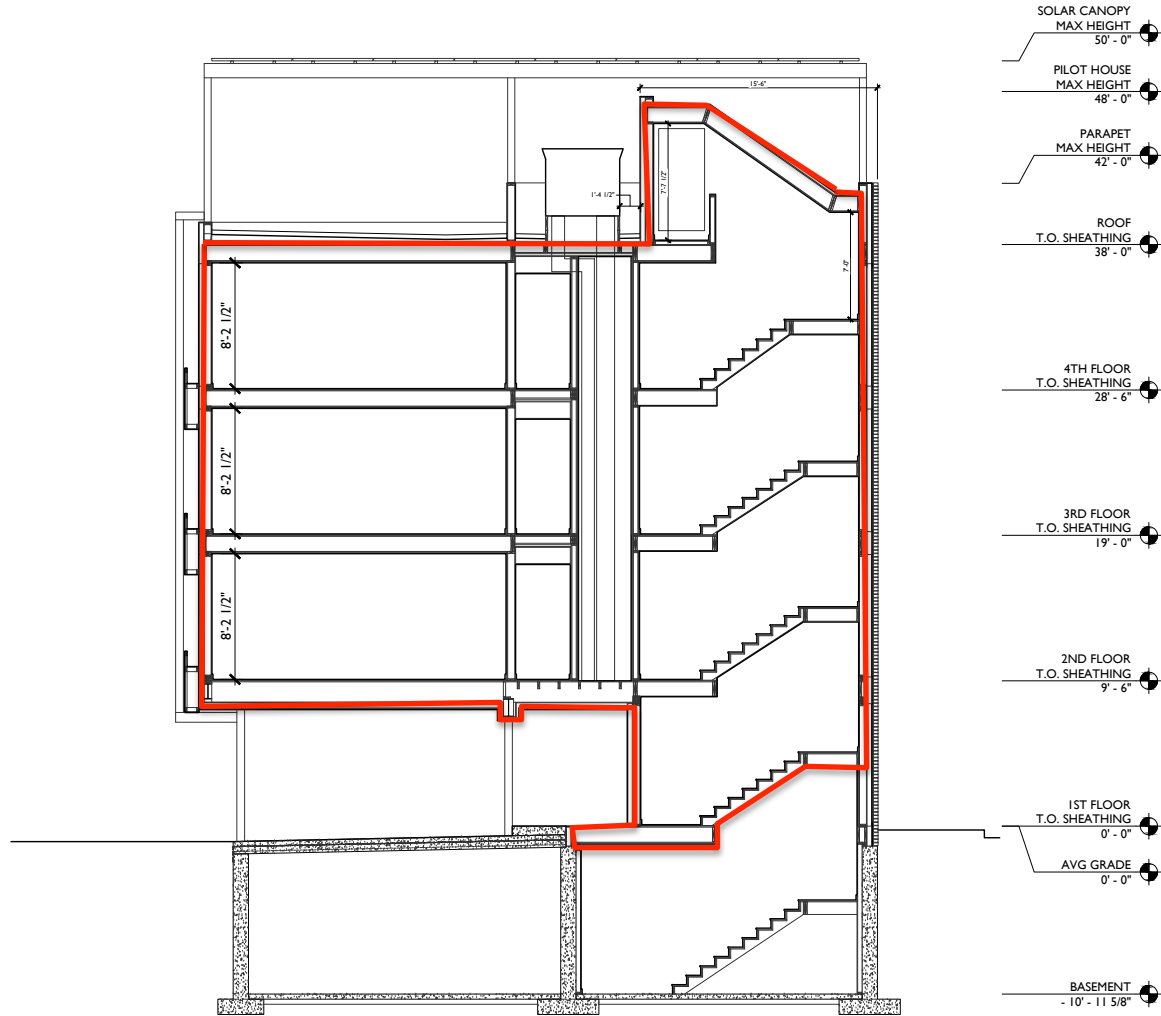
*Balanced/Centralized Ventilation*

**PHASE 3: THE BATTERY 2017: 2 ERVs, 82% efficient**



PHASE 3: *THE BATTERY* 2017: critical juncture at roof

# AIR BARRIER

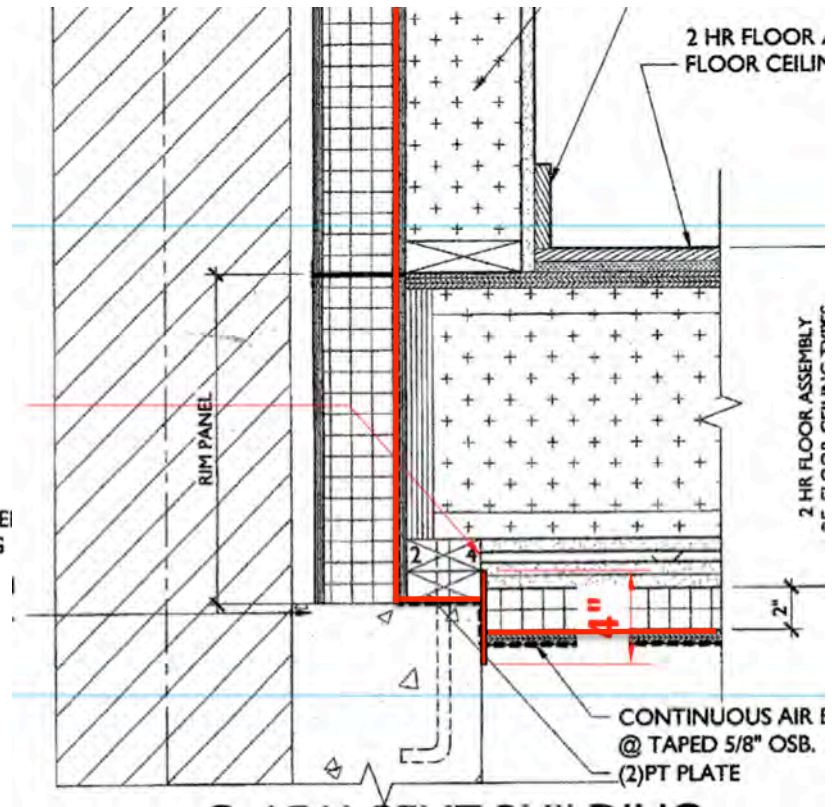
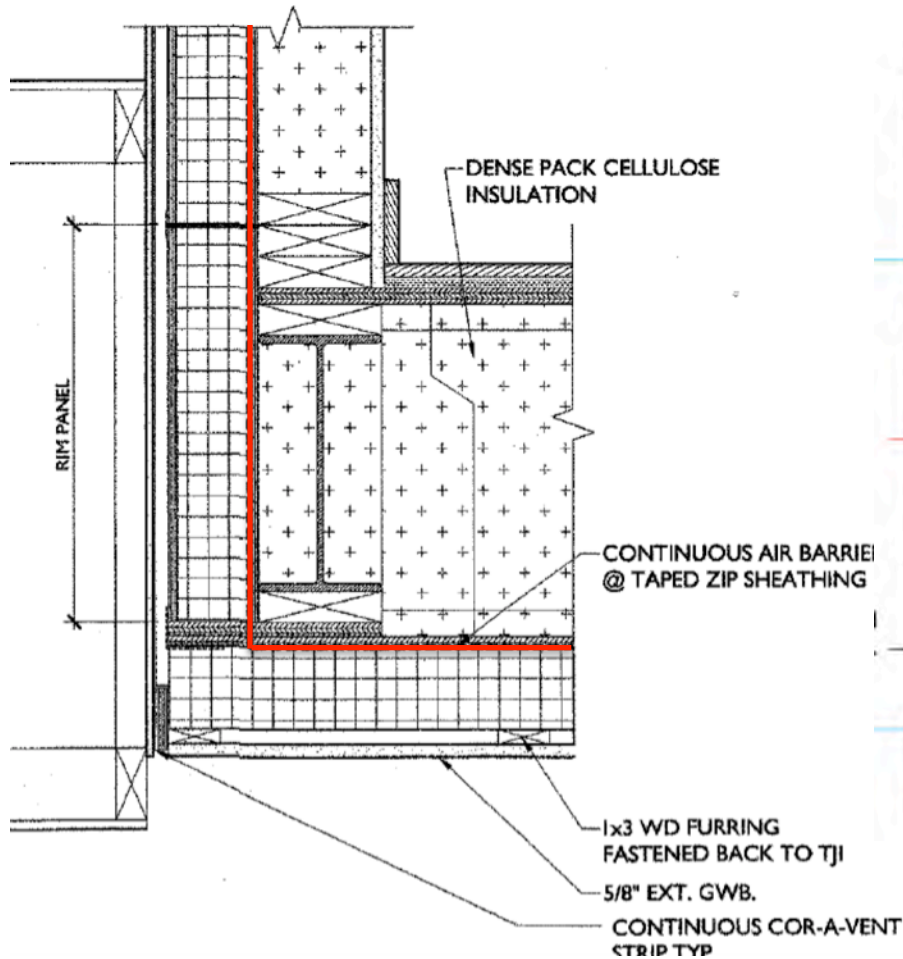


4 BUILDING SECTION  
1/8" = 1'-0"

PHASE 3: *THE BATTERY* 2017: air barrier detailing



# AIR BARRIER



PHASE 3: **THE BATTERY** 2017: air barrier detailing

# THERMAL BRIDGING



Thermal Break

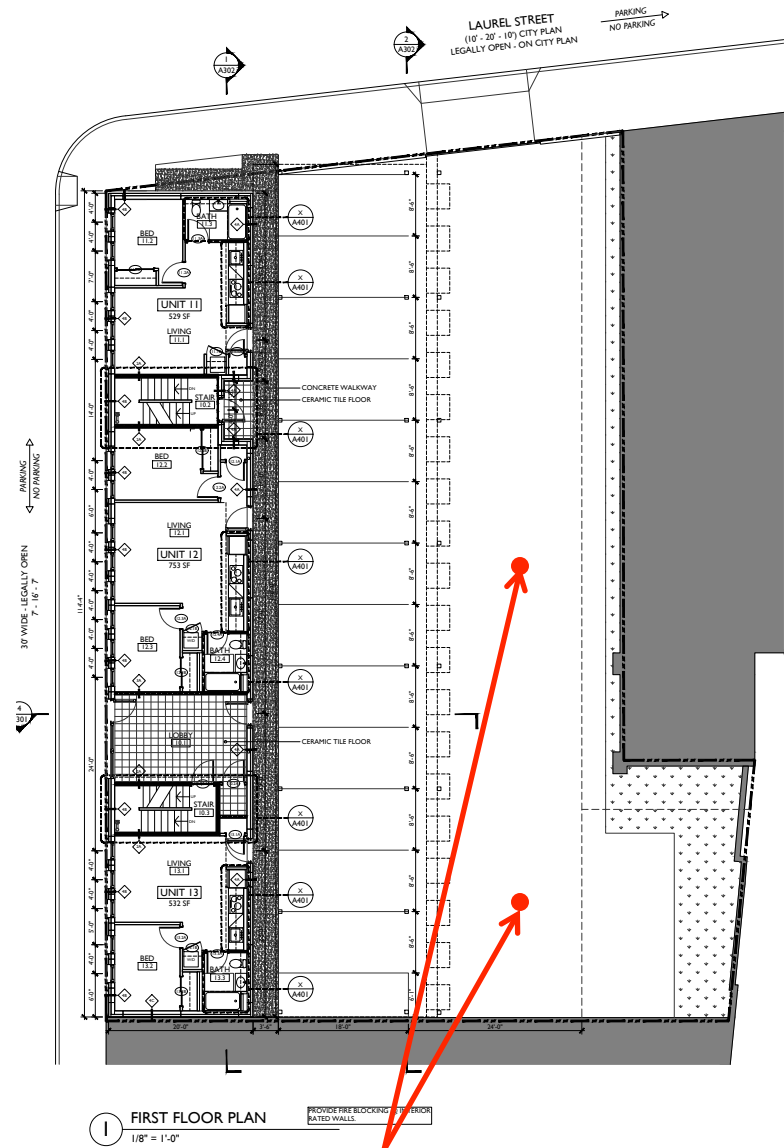
PHASE 3: *THE BATTERY* 2017: air barrier detailing





PHASE 3: **THE BATTERY** 2017: geo-thermal wells





2 - 1000' deep Standing Column  
Geothermal Wells  
ALL heating/cooling and domestic hot water for  
ALL 25 apartments

PHASE 3: THE BATTERY 2017





PHASE 3: **THE BATTERY** 2017: *Buildsmart system*





PHASE 3: **THE BATTERY** 2017: Buildsmart system





PHASE 3: **THE BATTERY** 2017: Buildsmart system





PHASE 3: **THE BATTERY** 2017: *Buildsmart system*





**PHIUS CERTIFICATION PENDING!!**

**FINAL BLOWER DOOR TEST**  
**Sept 29, 2017**  
**.53 ACH50**



**PHASE 3: THE BATTERY 2017**





*PHASE 3: **THE BATTERY** 2017: performing as designed*



*PHASE 3: **THE BATTERY** 2017: cautionary yellow!*





*PHASE 3: **THE BATTERY** 2017: blowing the energy budget*



PHASE 3: **THE BATTERY** 2017: WHO'S WHO???