



Deep Energy Retrofit

DEEP ENERGY RETROFIT SPONSORED BY:

   **YOUR LOGO HERE**

The power of action

2010.03.11

Multifamily: Unique challenges.



Specifications

Insulation

R 60 Roof
R 40 Walls
R 30 floors

Air Sealing

>250cfm50

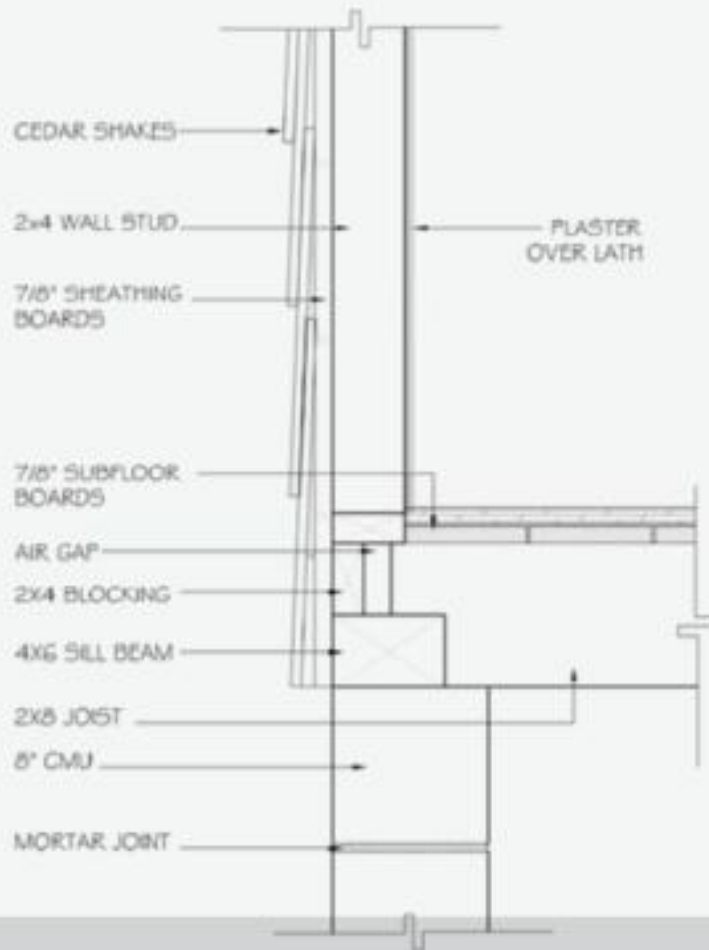
Mechanical

*Solar
thermal
*Modulating
gas boiler
*HRV

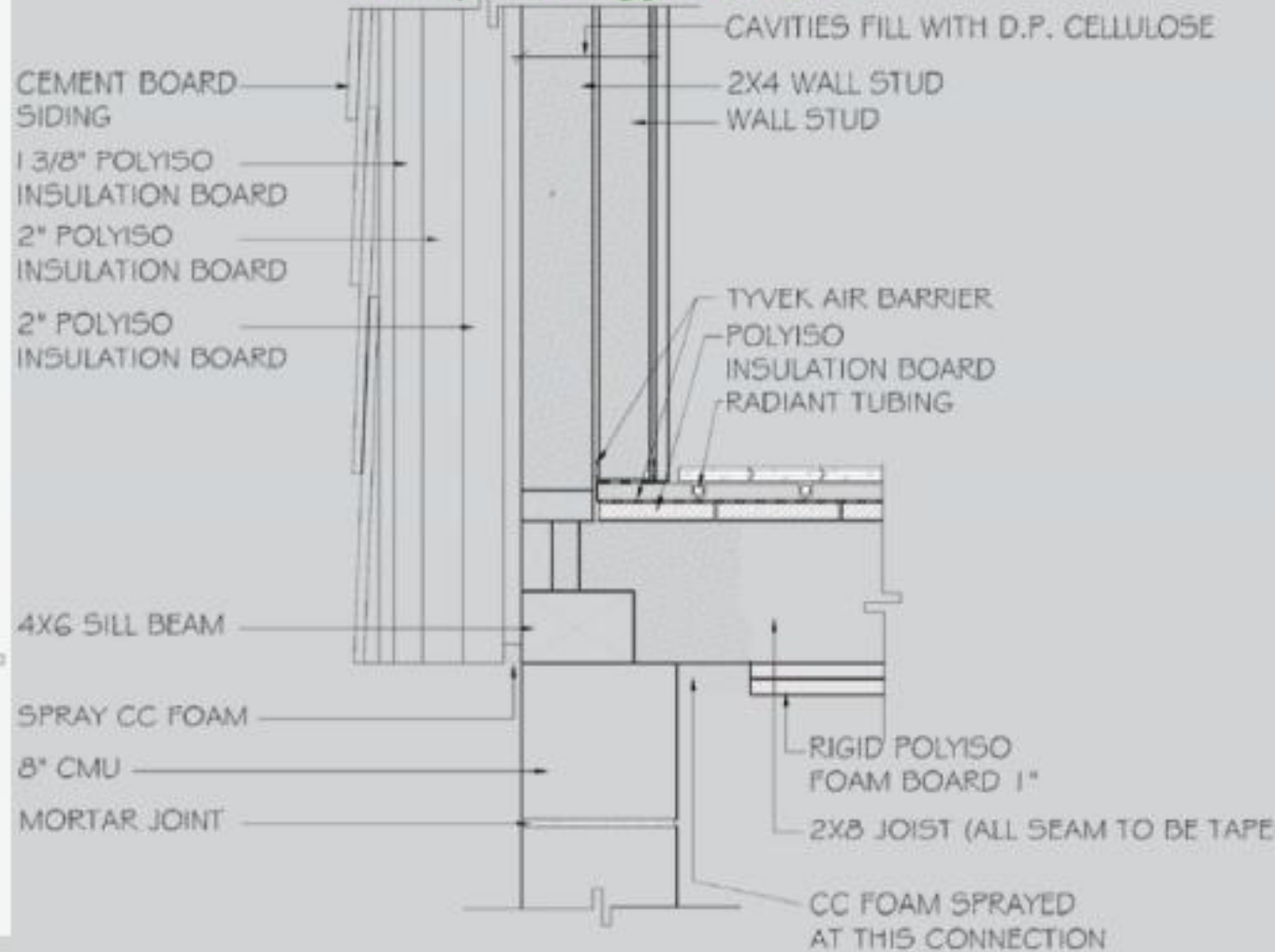
D.E.R



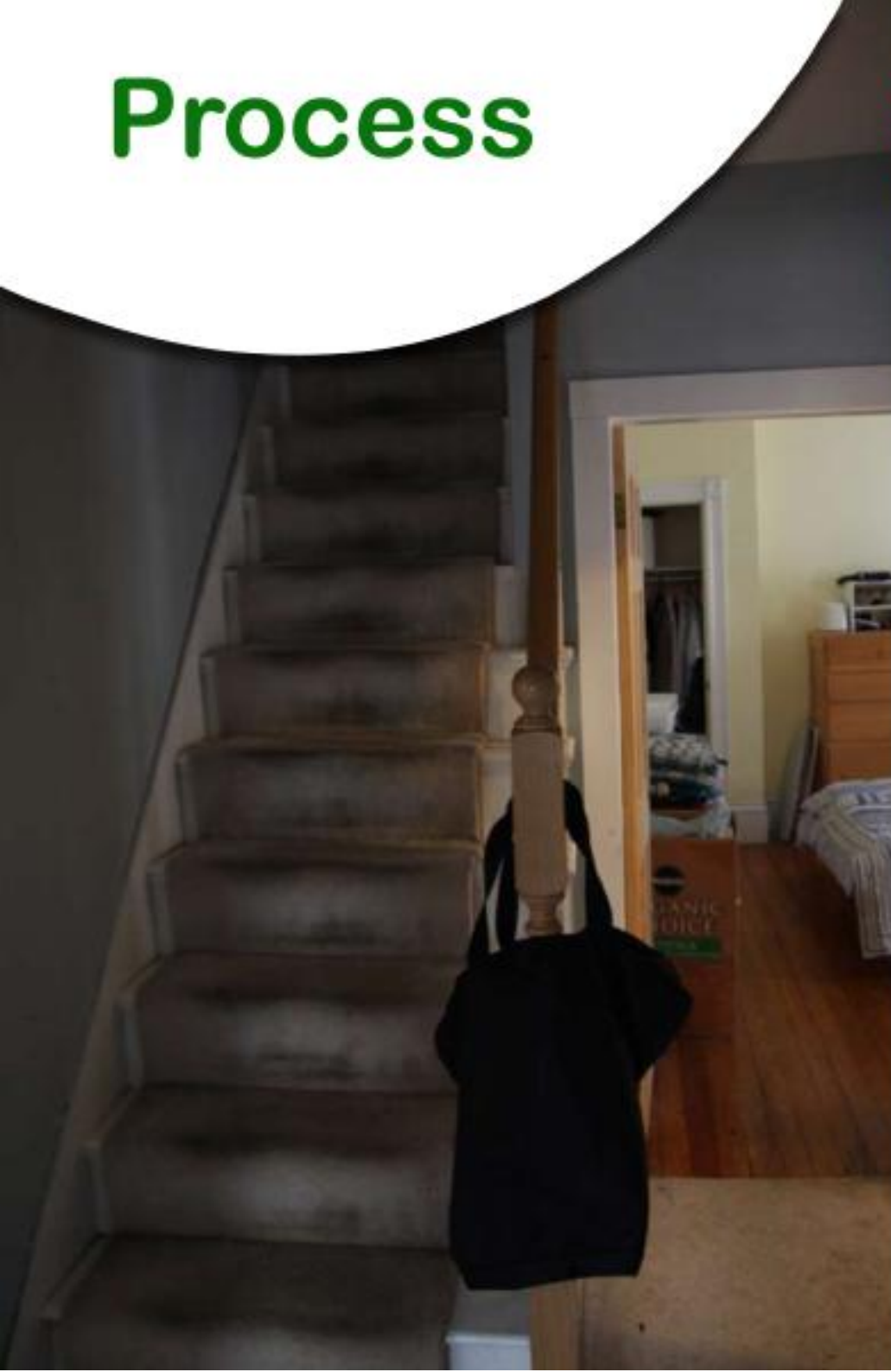
Existing



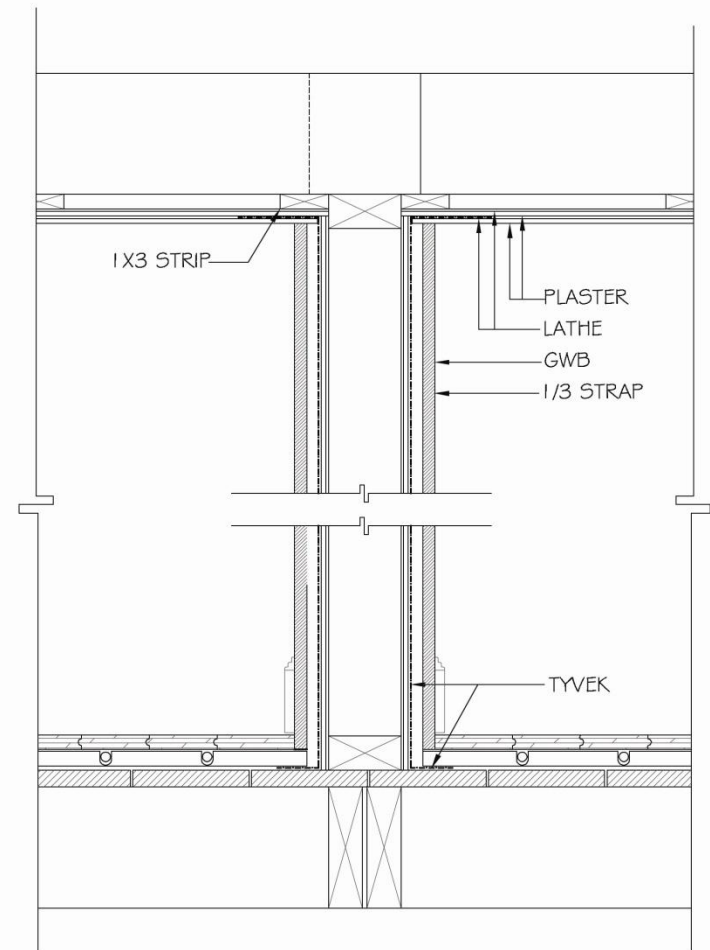
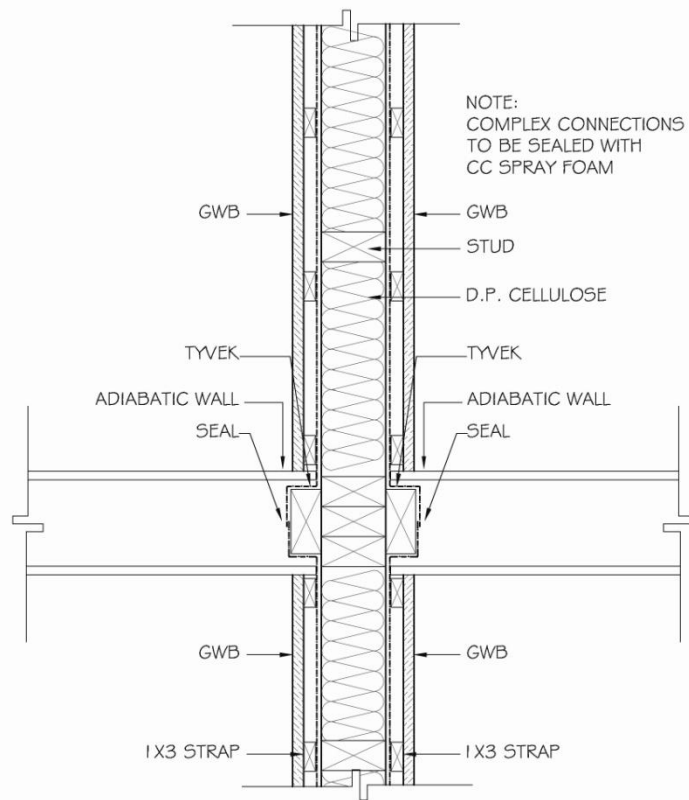
Deep Energy Retrofit



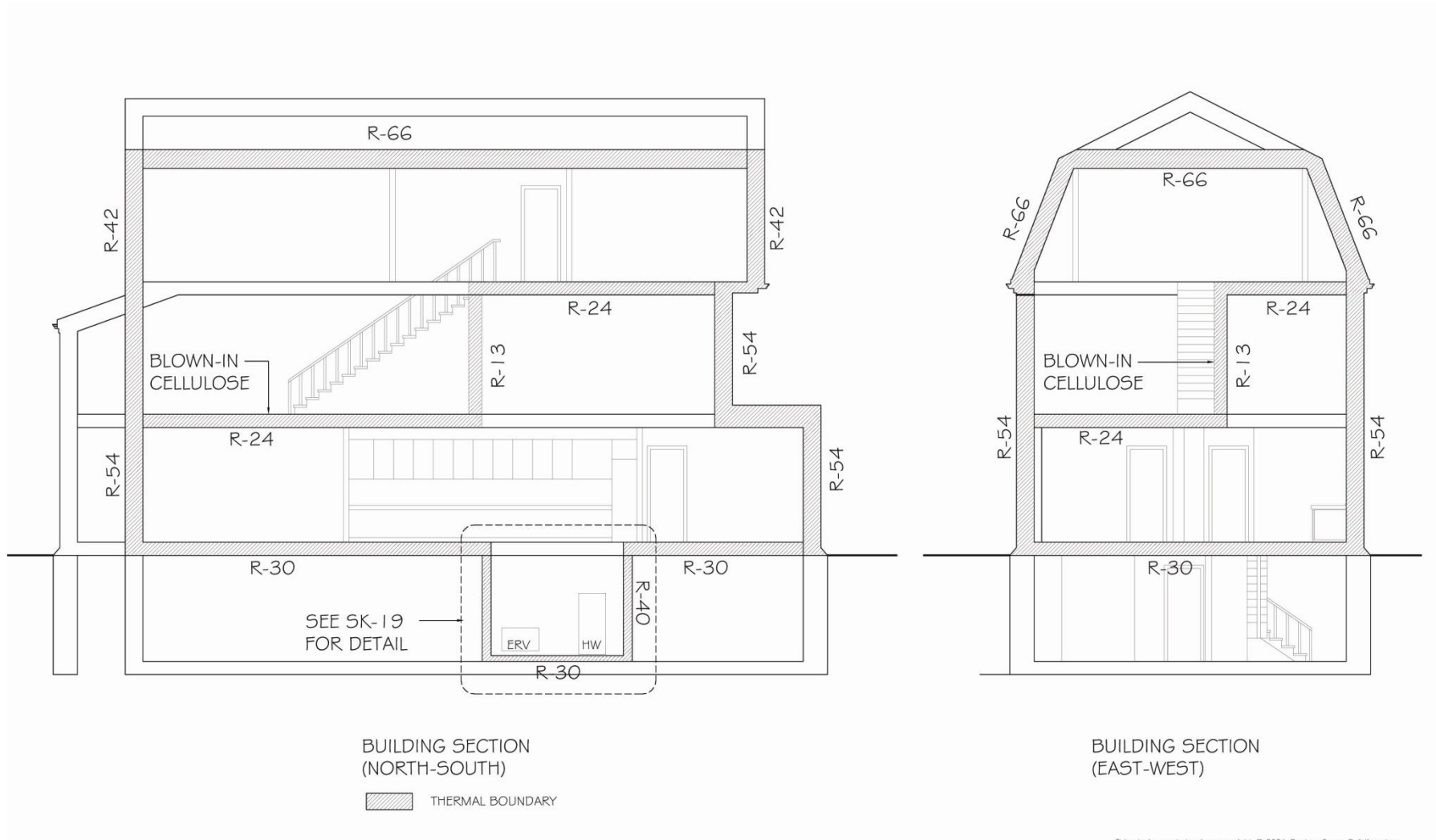
Process



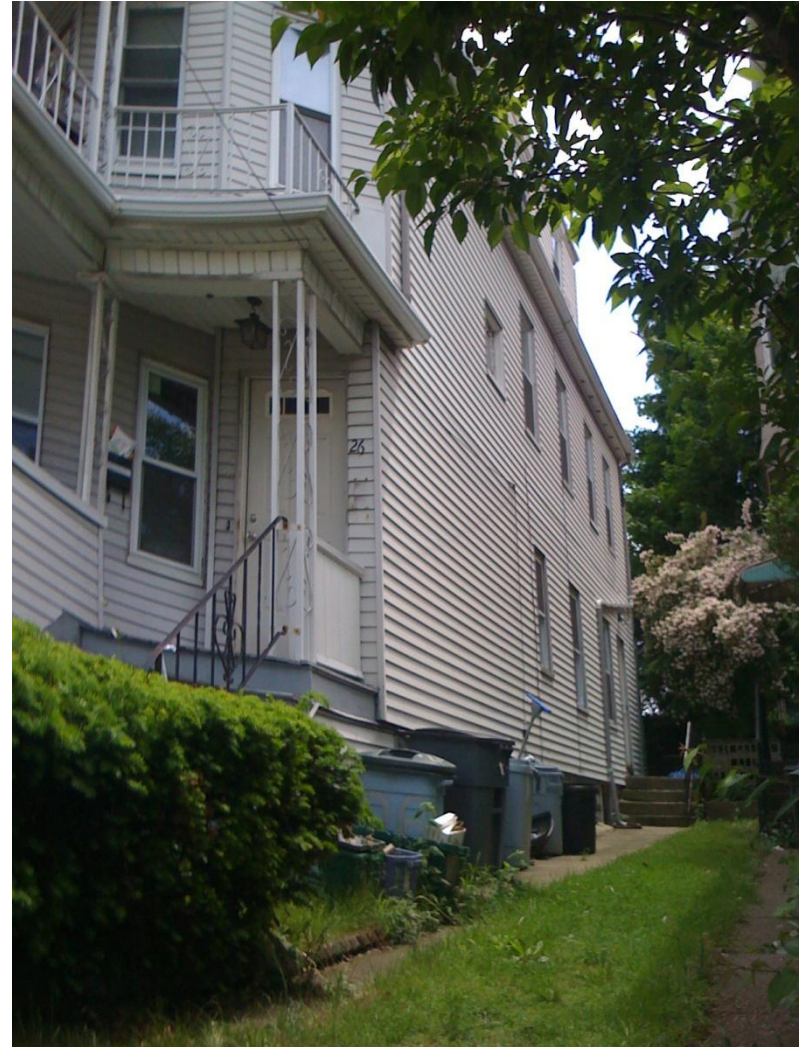
26 Princeton: Wall details



26 Princeton: Thermal Boundary



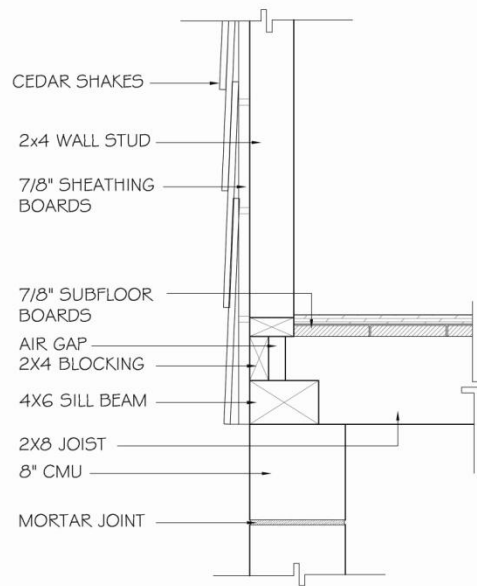
26 Princeton: Exterior: pourous, complex, leaky.



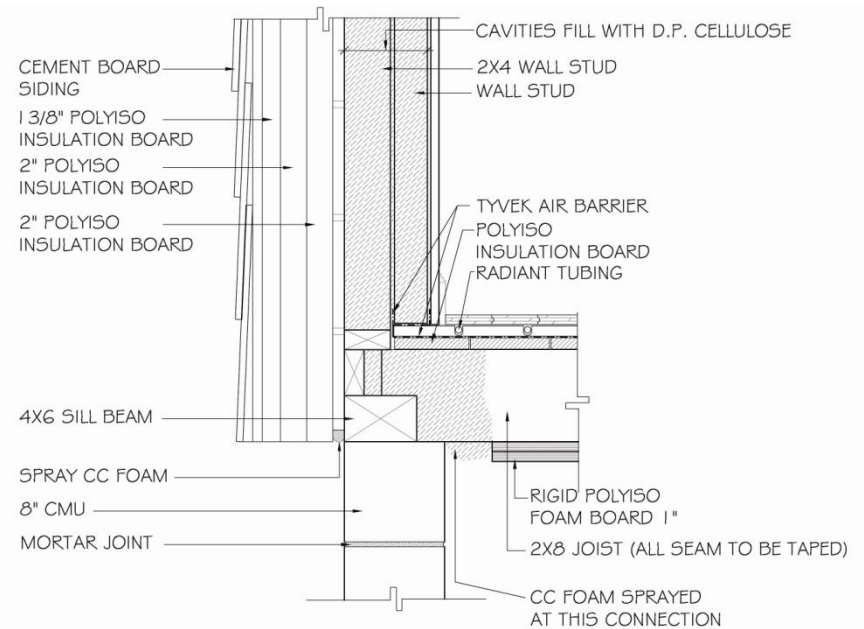
Passive House walls simple:
Panels, sealed inside and out.



26 Princeton: Wall/Foundation detail: “Panelized” exterior wall, inner systems wall.



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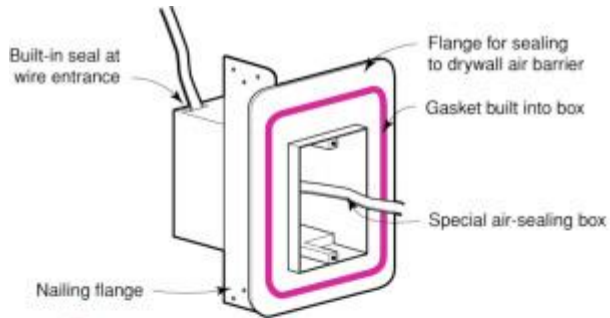
Interior air sealing measures



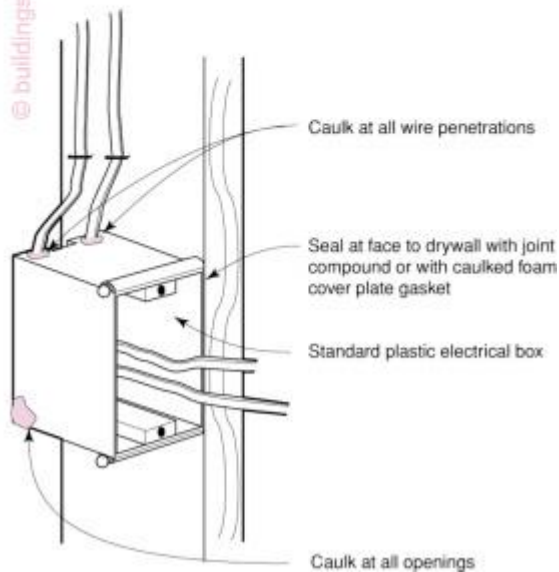
Walls furred for systems (no penetrations of envelope seal)



Minimize penetrations/seal all complex intersections interior & ext



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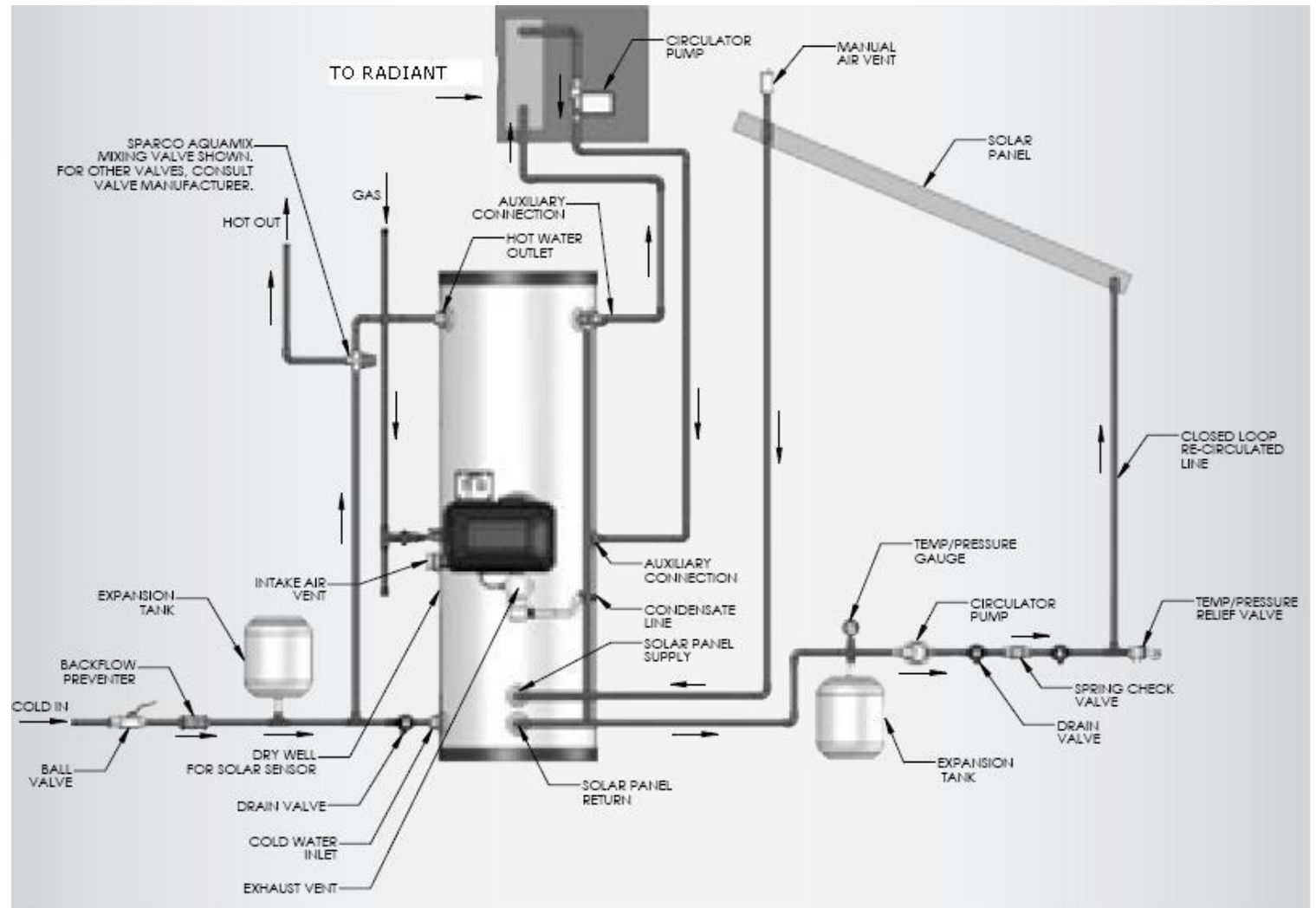
Densepack existing wall cavities



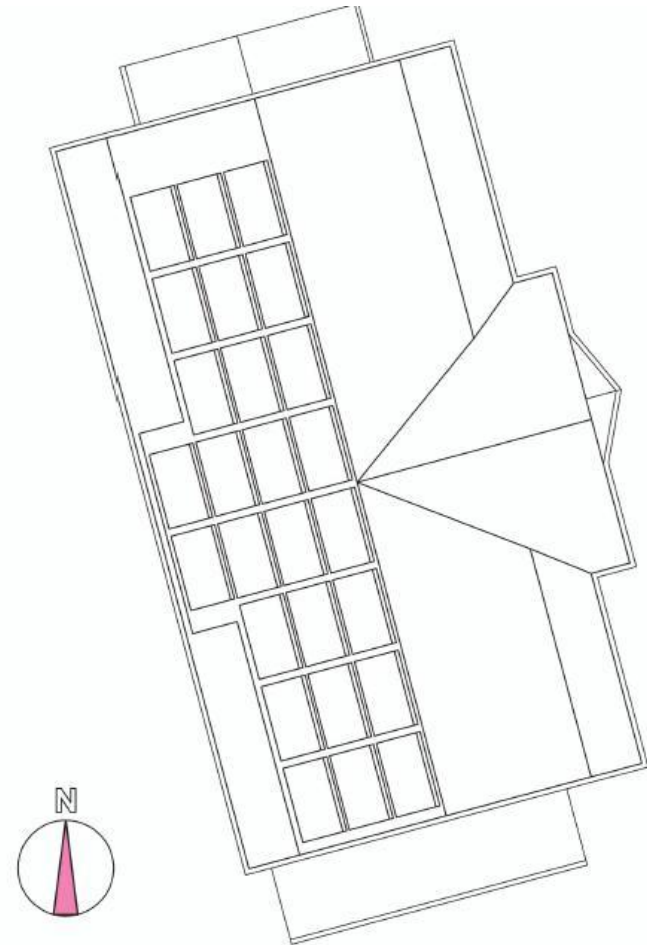
Apply a rigid foam “exoskeleton”. Face functions as rainscreen. Strap for better drying potential.



Mechanicals



Closing the gap to zero...



Thank you for your time!

Questions???

This concludes the American Institute of
Architects Continuing Education Systems
Program



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