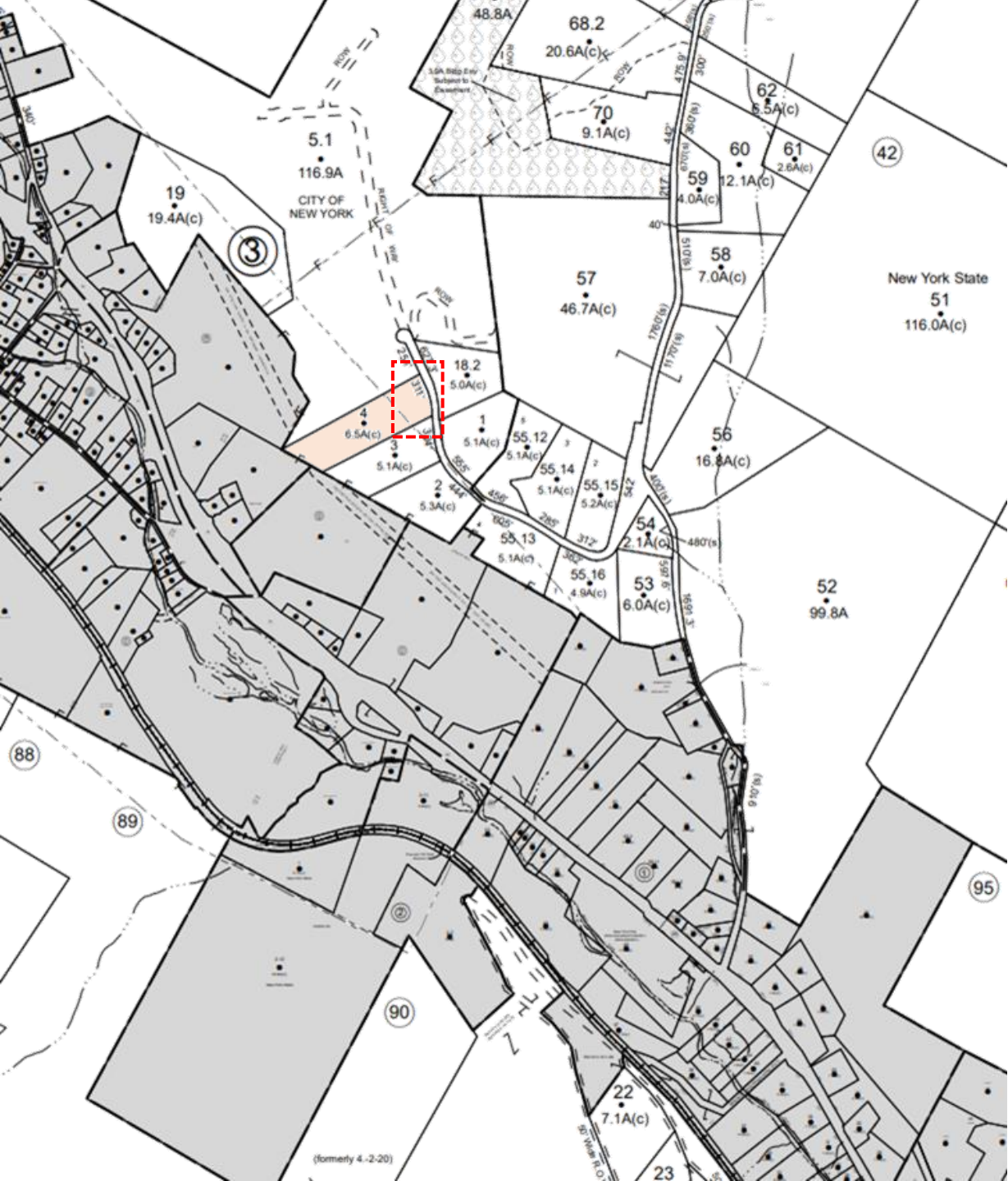
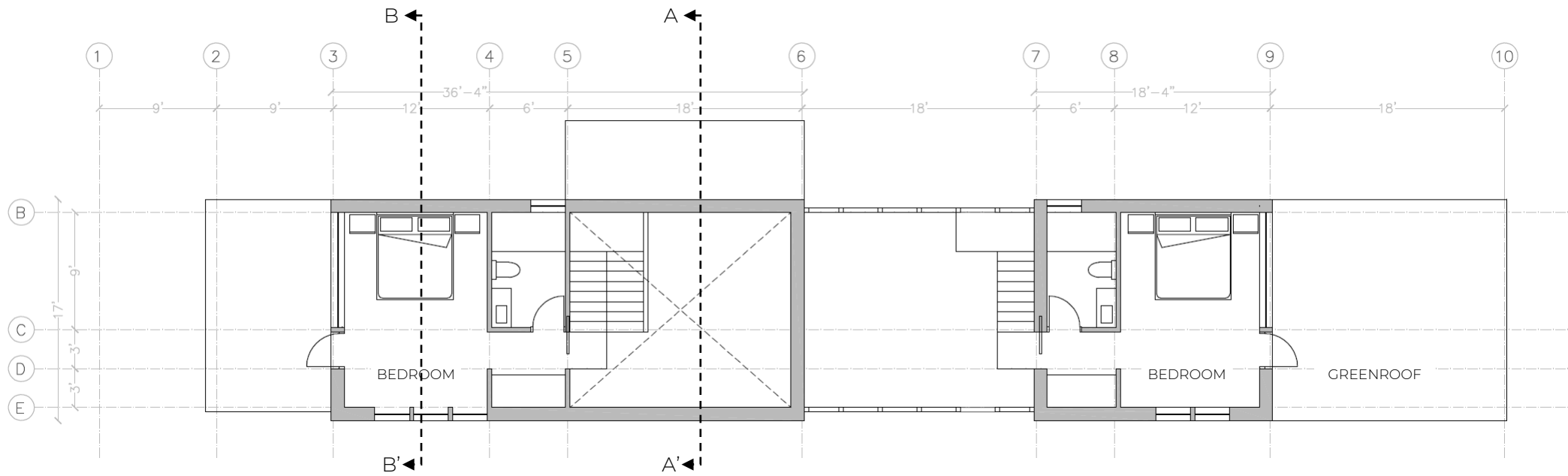


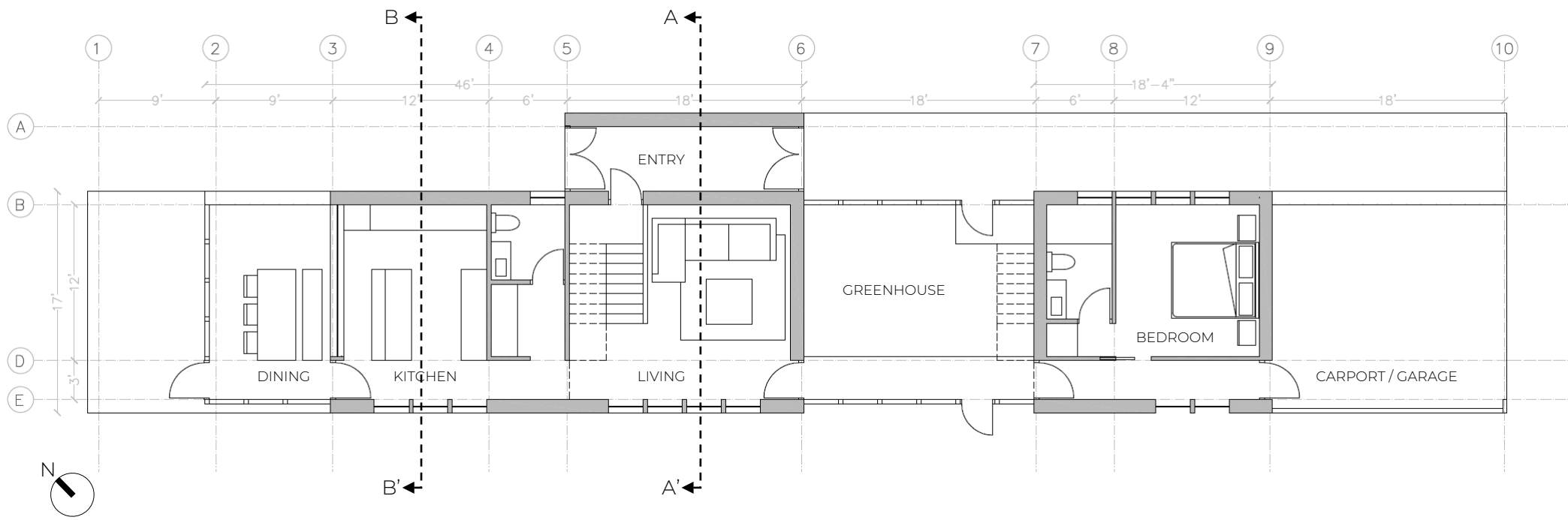
ISOMETRIC VIEW FROM SOUTH



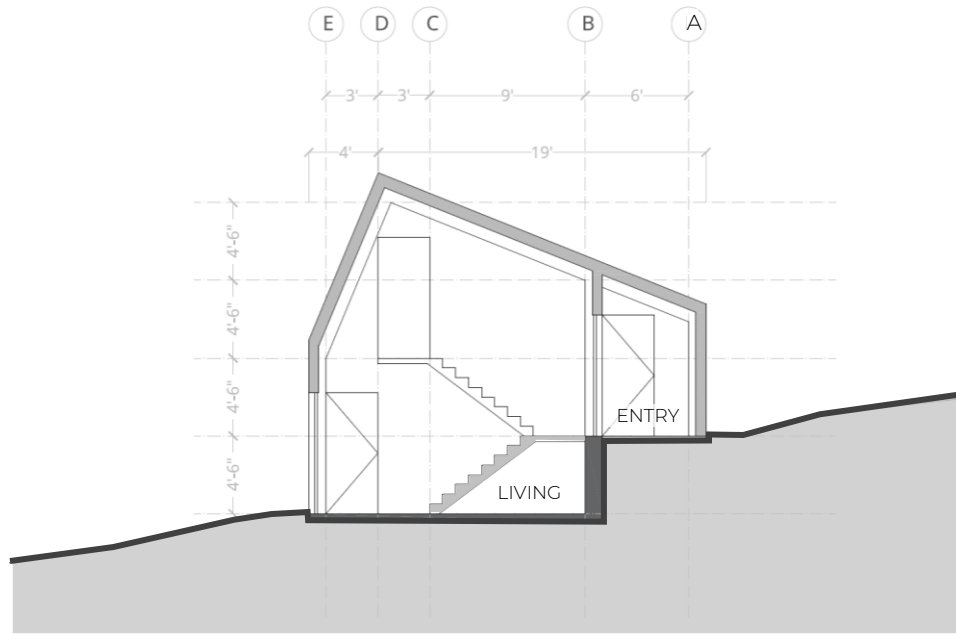
SITE PLAN



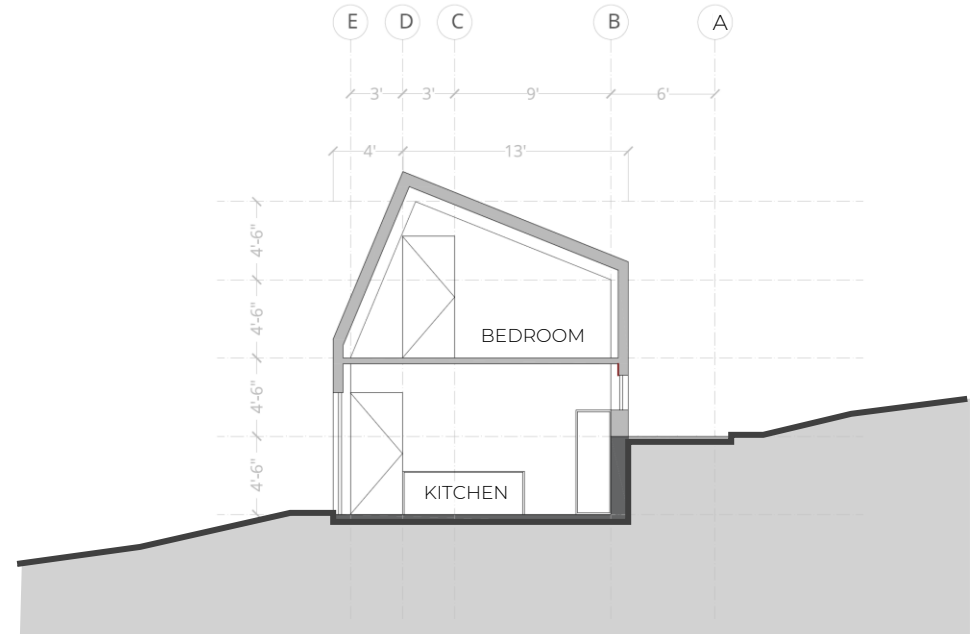
SECOND FLOOR PLAN



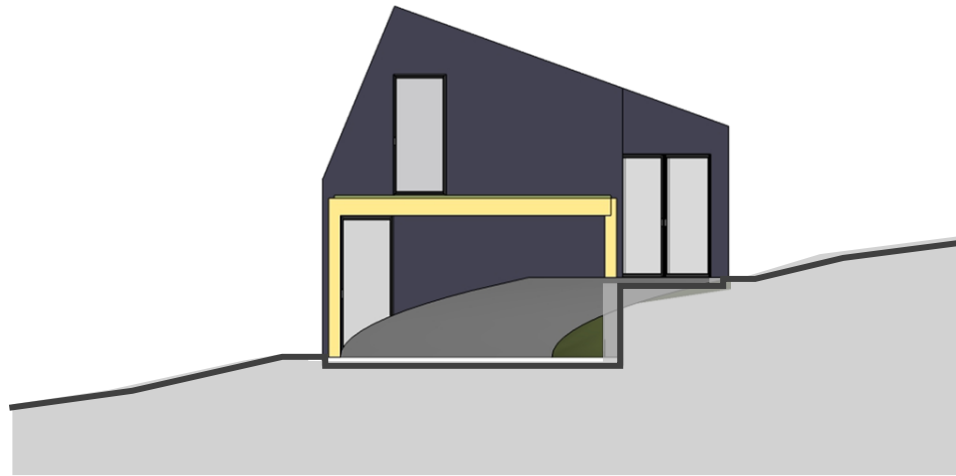
FIRST FLOOR PLAN



SECTION AA'



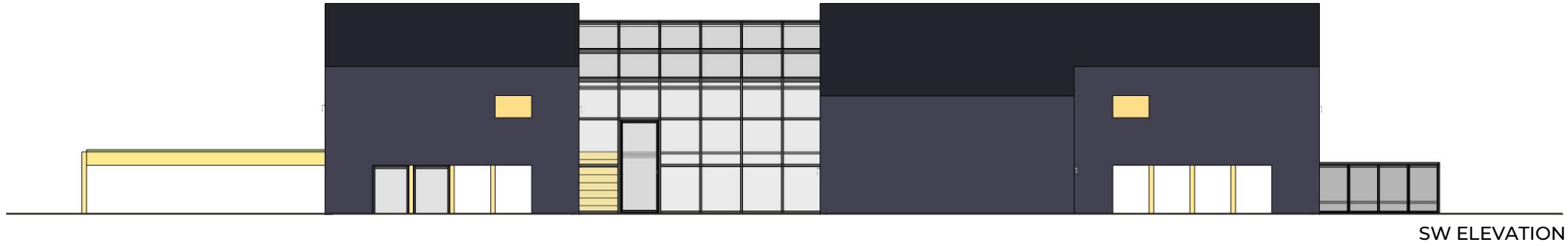
SECTION BB'



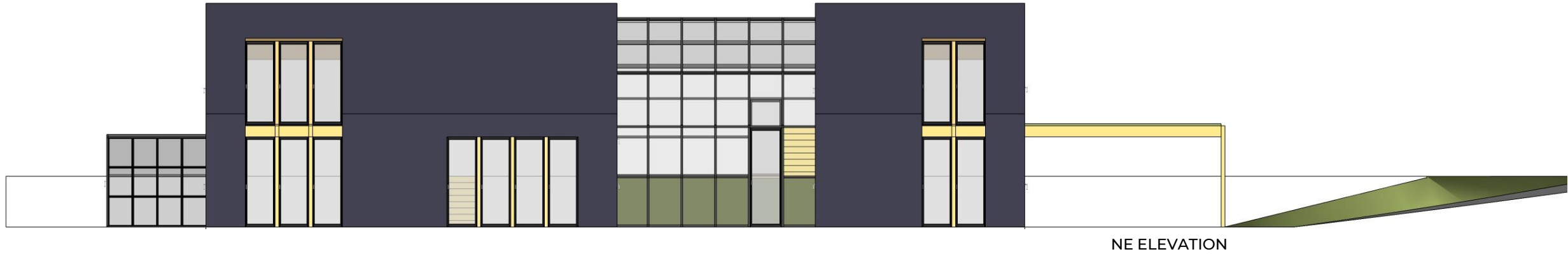
SE ELEVATION



NW ELEVATION



SW ELEVATION



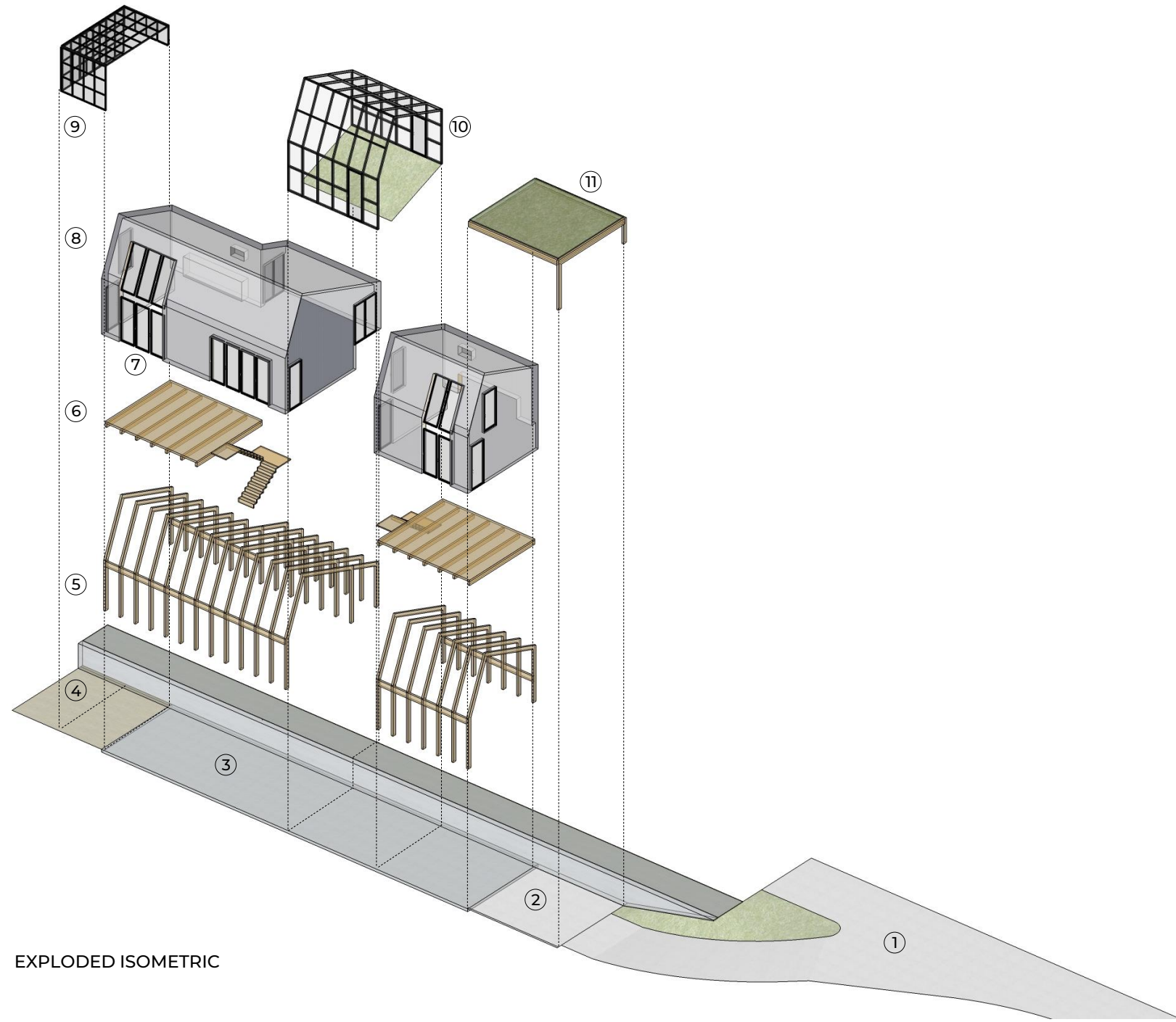
NE ELEVATION

DIAGRAM NOTES

1. Gravel driveway at grade from SE site corner entrance and ramp down to carport / garage level @ -4.5'.
2. Gravel carport / garage
3. Main level slab-on grade floor, Min R-20, radiant with exposed concrete finish
4. Outdoor wood deck extension of dining/conservatory
5. Wood truss main structure to be designed and sized per structural calculations. As shown 4"x8" members @ 3' oc
6. Upper floor with hard wood finish, acoustic insulation, exposed underside wood beams and sub-floor.
7. Window/door/skylight assembly (glass + frames): U-0.15, SHGC: 0.40. Triple glazing with warm-edge spacers, thermally broken frames.
8. Minimum performance R-25 walls: 4" CI + 8" cavity insulation and R-35 roofs: 8" CI over exposed wooden truss. Thermal-bridge free detailing. Continuous air barrier / vapor retarder with an average air leakage not to exceed 0.6 ACH @ 50 Pa verified with Blower Door testing.
9. Conservatory/sunspace as extension of kitchen/dining. Baseline fully glazed greenhouse. Alternate opaque green roof as bedroom terrace
10. Unconditioned / semi-conditioned greenhouse connecting two structures with single pane glazing and metal framing.
11. Carport/garage vegetated roof as bedroom terrace

OTHER NOTES

- HVAC Baseline: 2-3 TR water-to-water ground source heat pump system with radiant floor heating, energy recovery ventilation system, and ceiling fans.
- 5-6kW net-metered rooftop PV array on south facing roofs.
- Materials: FSC certified wood, formaldehyde-free products, Mineral wool batt insulation, USG Ecosmart gypsum board, Low carbon concrete with cementitious material substitution with fly-ash, slag, or glass pozzolan.



EXPLODED ISOMETRIC

REFERENCE: INTERIOR EXPOSED CONCRETE AND WOOD FINISHES



⑥ Upper floor with hard wood finish, acoustic insulation, exposed underside wood beams and sub-floor.

③ Main level slab-on grade floor with exposed concrete finish

REFERENCE: UNCONDITIONED GREENHOUSE AND SUNSPACE / CONSERVATORY



<https://www.houseandgarden.co.uk/gallery/weavers-cottage>

<https://www.dezeen.com/2020/05/26/little-peek-berman-horn-studio-maine/>

REFERENCE: EXTERIOR CHARRED WOOD CLADDING WALLS AND ROOFS



REFERENCE: EXTERIOR WOOD CLADDING DETAIL
SHOWING CONTINUOUS INSULATION + WATER-PROOFING LAYER UNDER CLADDING

