3D PRINTED HOUSING TECHNOLOGY

PRESENTED BY STEPHEN BASTIEN II













THE PRINTER

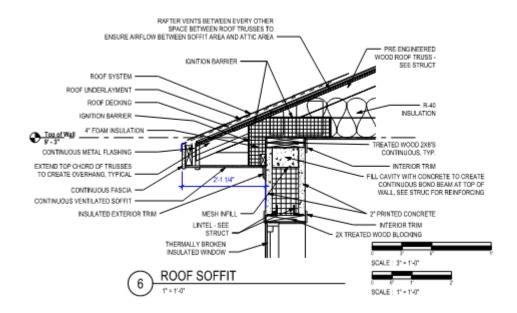


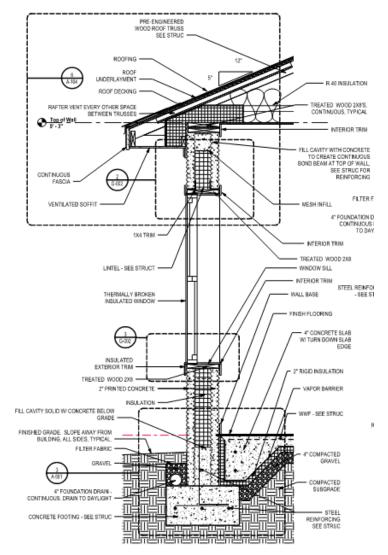
Simple yet complex adaptation of what we think of when we hear 3D printed.

- Keeps the same structural design
- Runs on similar principals and theory's
- Complexity starts at the printer head and continues with the technology



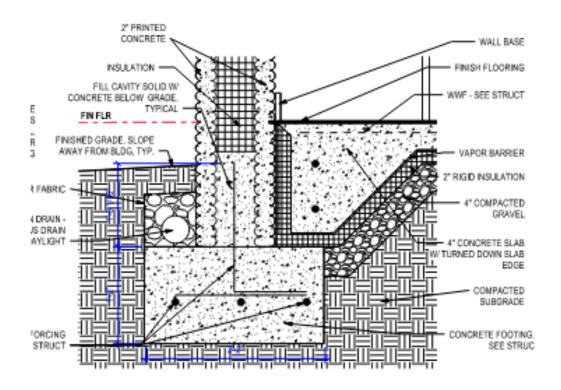
ENGINEERING FEATURES

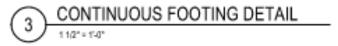






ENERGY CONSIDERATIONS





ENERGY CONSIDERATIONS

| HEAT PUMP SCHEDULE | | | | | | | |
|--------------------|------------|------------|-------------------|--------------|-----------------------|----------------------|----------------------------|
| INDOOR UNIT DATA | | | OUTDOOR UNIT DATA | | | RATED COOLING | RATED HEATING |
| MARK | MAKE | MODEL NO. | MARK | MODEL NO. | VOLTAGE | CAPACITY (BTU/HR) | CAPACITY @ 47F (BTU/HR) |
| AHU-1 | MITSUBISHI | SVZ-KP18NA | HP-1 | SUZ-KA18NAR1 | 208/230V,1-PHASE,60Hz | 18,000 | 22,800 |

| IN-WALL DEHUMIDIFIER SCHEDULE | | | | | | |
|-------------------------------|------------|-----------|-----|------------|--|--|
| MARK | MAKE | MODEL NO. | FLA | VOLTAGE | | |
| DEHU-1 | ULTRA-AIRE | MD-33 | 2.8 | 120V, 60Hz | | |

| VENTILATION SCHEDULE | | | | | | |
|----------------------|--------------------------|-----|-----------|----------------|----------------|--|
| LOCATION | OCATION MARK DESIGNATION | | MAKE | MODEL NO. | DUCT SIZE (IN) | |
| HALL | ERV-1 | 40 | PANASONIC | FV-04EV1 | 4 | |
| BATHROOM | EF-1 | 80 | PANASONIC | FV-0510VSB1 | 4 | |
| KITCHEN | EF-2 | 150 | N/A | OWNER SELECTED | 6 | |
| CLOTHES DRYER | EF-3 | 150 | N/A | OWNER SELECTED | 4 | |

| HEAT PUMP AIRFLOW SCHEDULE | | | | | |
|---------------------------------|-----|-------------------|-------------------------------------|--|--|
| DESIG BRANCH AIRFLO (CFM) | | DUCT SIZE (IN) | DIFFUSER | NOTES | |
| LIVING ROOM | 40 | 5 | 8X4 HART & COOLEY #A618OB | FLEX (R-4), PROVIDE MANUAL VOLUME DAMPER | |
| LIVING ROOM | 40 | 5 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| KITCHEN | 100 | 7 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| KITCHEN | 100 | 7 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| MASTER BATHROOM | 30 | 4 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| MASTER BEDROOM | 80 | 7 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| BEDROOM 1 | 45 | 5 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| BEDROOM 2 | 75 | 6 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| HALL BATHROOM | 30 | 4 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| HALL | 30 | 4 | 8X4 HART & COOLEY #A618OB | FLEX (R-4) PROVIDE MANUAL VOLUME DAMPER | |
| RETURN | 573 | 24 x 12 | 24 x 24 x 2 REMOTE FILTER GRILLE | METAL (R-4), PROVIDE 24 x 24 x 2 MERV 13 FILTER | |

