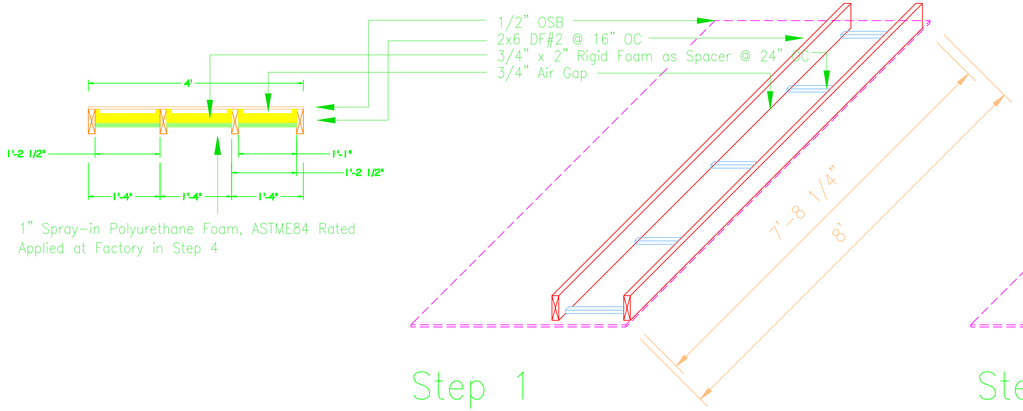
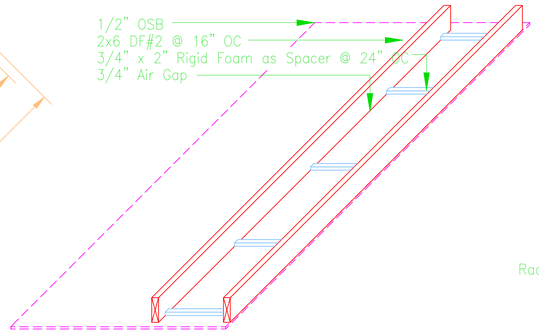
Cool-Panel Plan - Scale: 3/4" = 1'-0"



Step 1
Initial Panel Build Up



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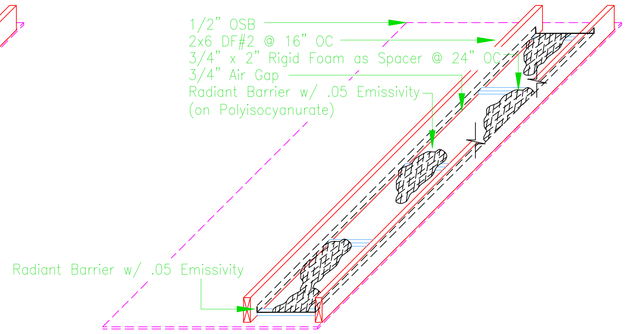
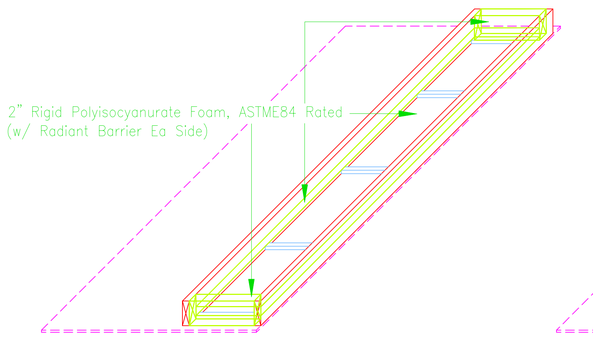
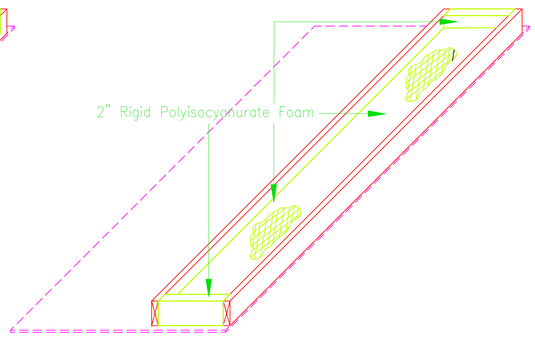


Step 2
Apply RB Over Air Space Foam
Staple to 2x6 Edge



Step 3
Place 2" Rigid Foam
Over RB



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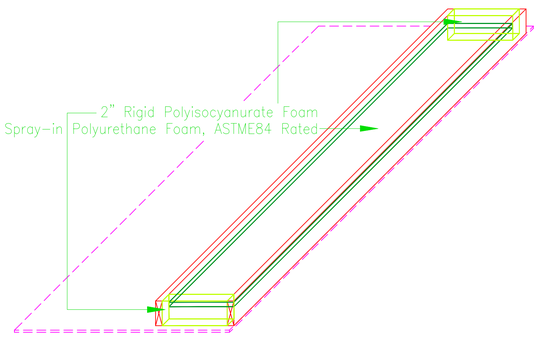
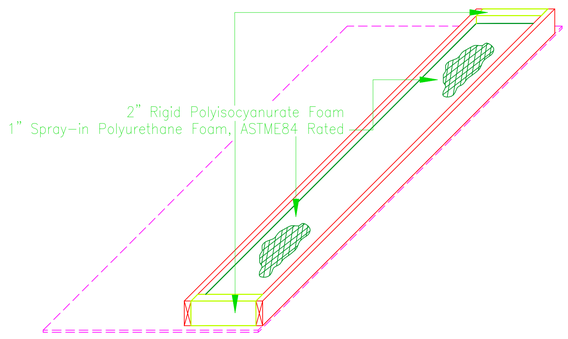


Step 4
Spray Polyurethane Foam
Over 2" Rigid Foam, Seals Cavity



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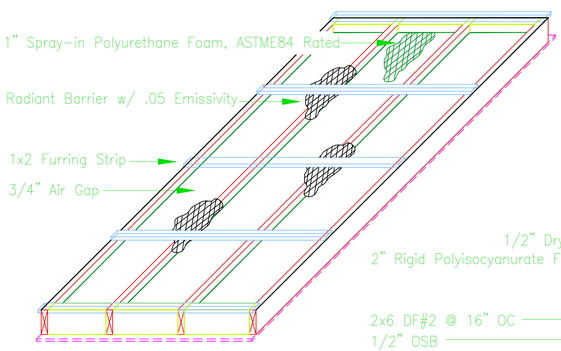
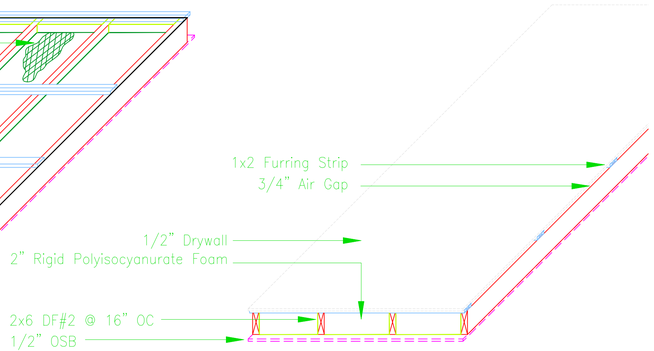
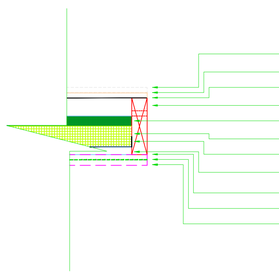


Step 5
On-site After Electrical
Plumbing AND Inspections
Apply RB Layer
Apply Furring Strips



Step 6
Drywall After All Inspections



#	Material	Manufacturer-Brand-TM	R-Value Wall	R-Value Cavity
1	½" Gypsum	-	0.45	00.45
2	¾" Air Gap	-	1.00	01.00
3	Radiant Barrier - Stud Thermal Break & Vapor Break		0.68	00.68
4	2x6 Stud - DF#2 - or Better		6.88	
5	1-1/2" Polyurethane Spray Foam	Dow Froth Pak		09.20
6	2" Polyisocyanurate Rigid Foam	R-Max Thermasheath		13.10
7	Radiant Barrier 95% Reflectivity	Diamond w/ Emissivity	.05	
8	¾" AIR GAP - ASHRAE Rating w/ above Radiant Barrier			02.77
9	½" OSB	Boise Cascade	0.53	00.53
10	House Wrap	Tyvek	0.25	00.25
11	Fibrecement Siding	Hardi	1.32	01.32

----SUMMARY----

Percent for 16" OC, plus Additional Framing -	(Industry Norm)	25%	75%
Total Wall Componets R-Value	-	11.11	29.30
Wall Components U-Value	-	0.0900	00.0341
U Value * Percent		0.0225	00.0256

"1" divided by "sum of U-Value * percent" -> 1/.0481 = 20.7900

ASE-HH Cool-Panel™ Total Wall System R-Value Is: 20.7900

Typical R19 Wall: 16.31 (w/ Above Components minus Air Gaps) - loss for non-sealed wall not considered and loss for condensation not considered

R24.7 6-1/2" SIP Wall, w/ Avg 18% Framing Is 20.55 - not counting non-radiant barrier heat transfer loss

REVISION	BY

OWNER
Ed & Linda Szczech
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Santa Rosa, CA 95403
Tel: 707-595-2318
Approved By:

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APN: 56-015-004
Designer: Jesus Szczech

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Nevada City, CA 95945
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Registered Civil Engineer # 48824, California

AMERICAN SIERRA ENTERPRISES
HOLISTIC HOMES
101 W. McKNIGHT WAY, SUITE B#139
GRASS VALLEY, CA 95949
TEL: 530-615-9763

DATE
8 / 18 / 18

SCALE
3/4"=1'

DRAWN
Sirois

JOB# ASE
18182

SHEET
CP1