

VERMONT;

Icons, Images and Expectations

Family Seat for the next Generations.

PROGRAM:

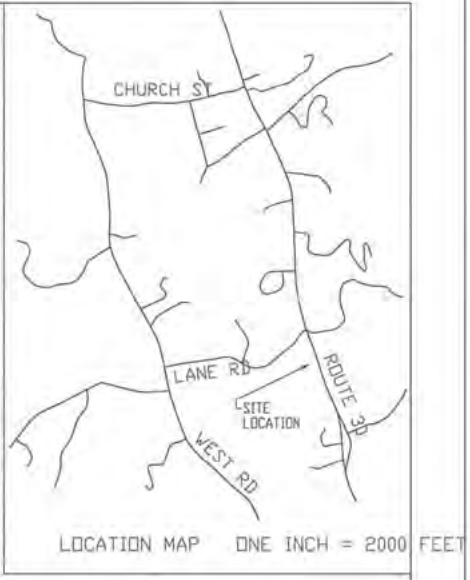
Master Suite (large bedroom, and closets).

Bathroom.
Guest Bedroom.
Office (Guest Bedroom 2).

Dining Room.
Great Room
Kitchen (sufficient for entertain-
ing and gourmet cooking).
Porch/Deck

REQUIREMENTS:

Preserve Integrity of Original
Site and Surroundings.
Energy Efficient Technology
Optimize Views.
Economical Construction

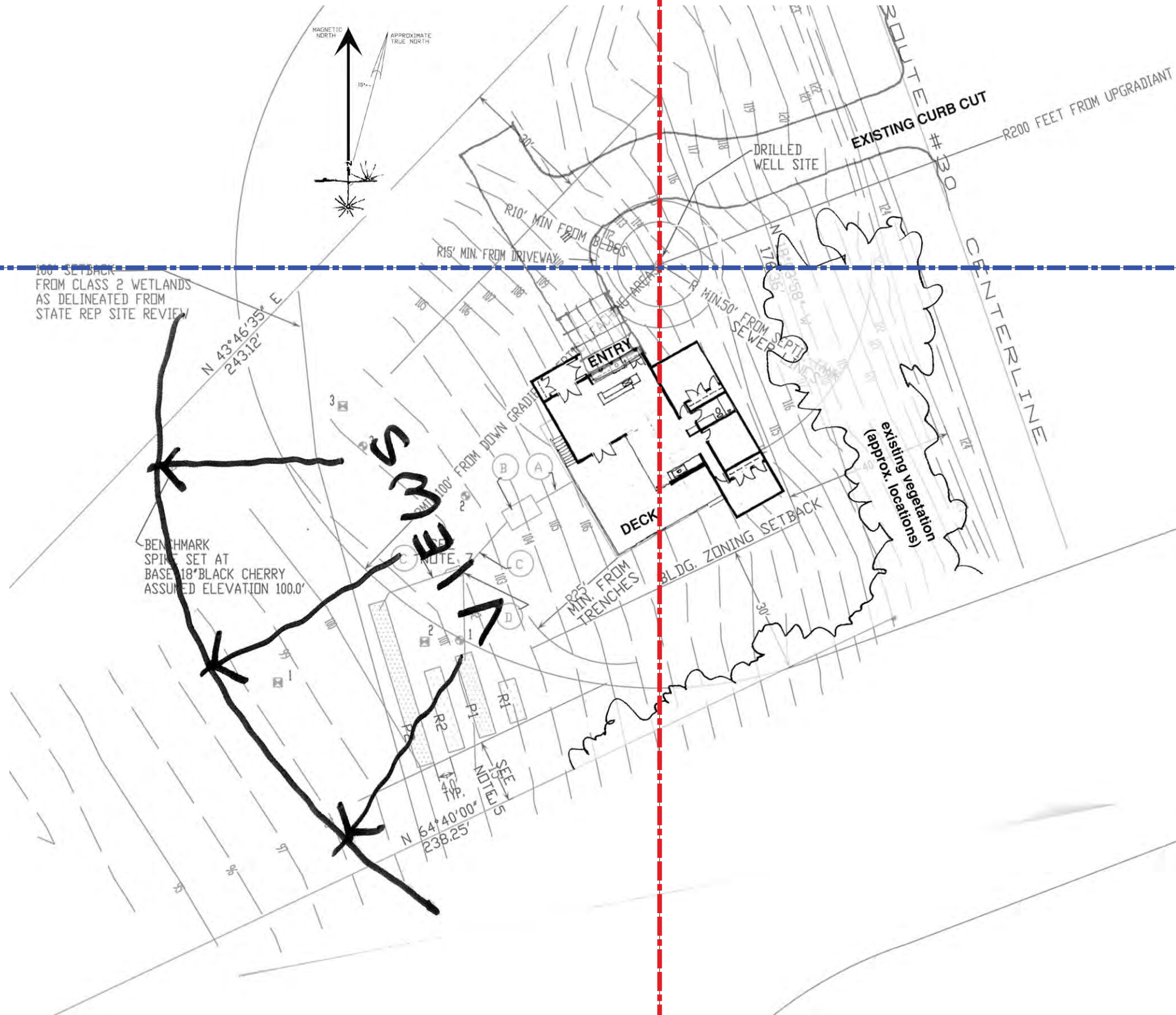


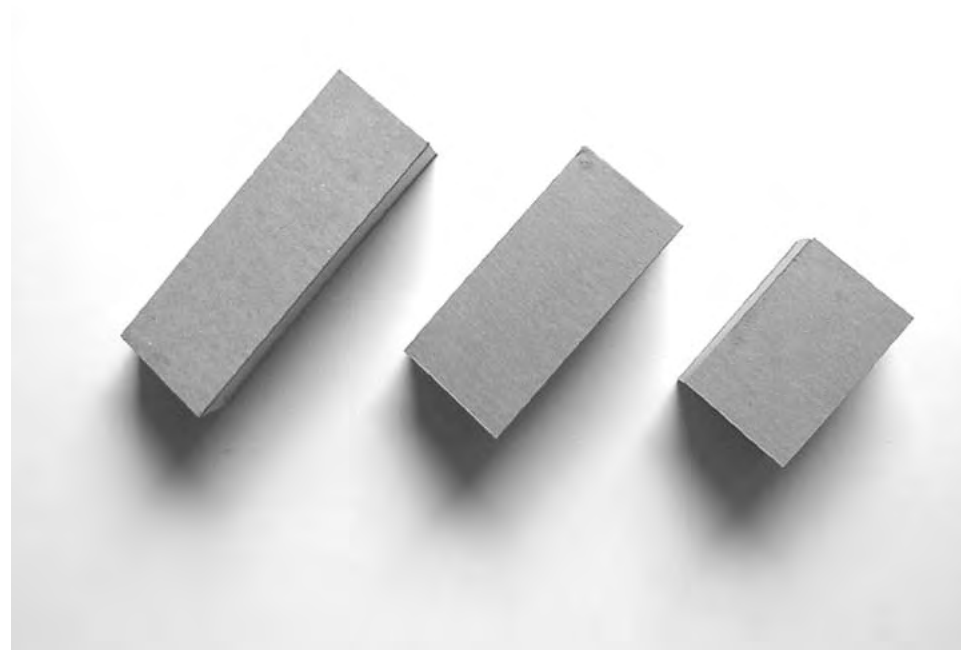
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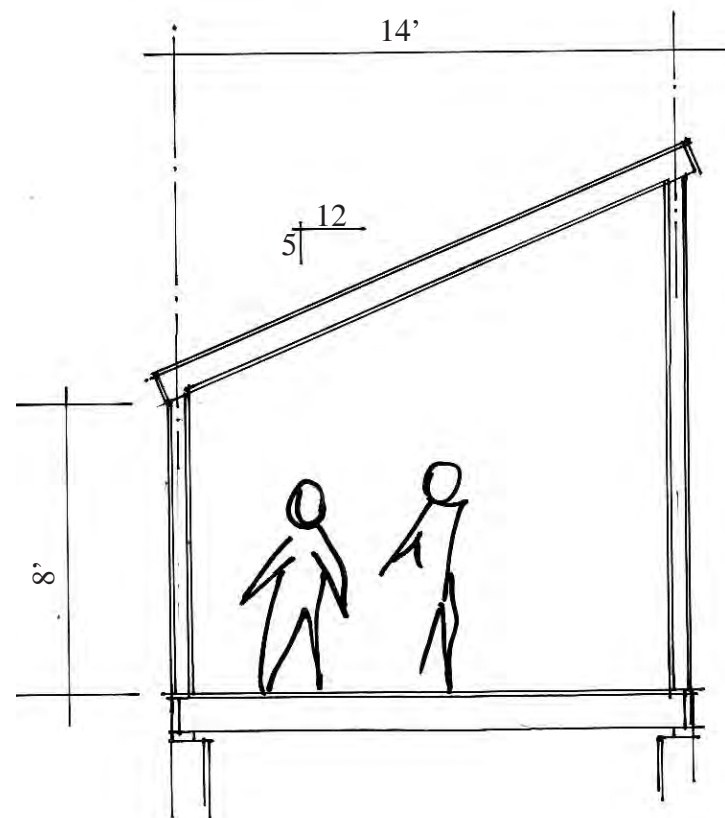
SITE:
Valley View
Mountain View

Route 30 is a relatively busy road. The grade pitches down from the road continuously. The site has a wonderful view of the Mettowee River valley. This frames the panoramic view of the mountains beyond.





44, 34, 24 x 14 Extruded Module



Section

form and space derived from SIPS performance criteria and requirements of human scale comfort

TOTAL LOAD (DEAD + LIVE) 50 PSF	SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/360					SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/240				
	PANEL THICKNESS					PANEL THICKNESS				
	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"
NO SPLINE	5'	7'	9'	11'	12'	5'	7'	9'	11'	12'
SINGLE SPLINE										
SPF #2	5'	7'	8'	11'	13'	7'	9'	12'	14'	17'
SYP #2	5'	7'	9'	12'	14'	7'	9'	12'	14'	17'
LVL	7'	12'	15'	17'	19'	7'	12'	15'	17'	19'
DOUBLE SPLINE										
SPF #2	7'	11'	14'	17'	20'	7'	11'	14'	17'	20'
SYP #2	8'	13'	16'	18'	21'	8'	13'	16'	18'	21'
LVL	8'	13'	16'	19'	21'	8'	13'	16'	18'	21'

See Page 9 of this report for footnotes

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Table 1. Allowable Spans for Transverse Loads on Insulspan Panels

9/9/99

Minimum Ground Snow Loads
Listed by Town

Vermont Department of Public Safety
Fire Safety Division

TOWN	Minimum Ground Snow Load	TOWN	Minimum Ground Snow Load
Addison	40 PSF	Burke	60 PSF
Albany	50 PSF	Burlington	40 PSF
Alburg	40 PSF	Cabot	60 PSF
Andover	60 PSF	Calais	60 PSF
Arlington	50 PSF	Cambridge	60 PSF
Athens	50 PSF	Canaan	60 PSF
Averill	60 PSF	Castleton	40 PSF
Avery's Gore	60 PSF	Cavendish	60 PSF
Bakersfield	50 PSF	Charleston	50 PSF
Baltimore	60 PSF	Charlotte	40 PSF
Barnard	60 PSF	Chelsea	50 PSF
Barnet	50 PSF	Chester	50 PSF
Barre	50 PSF	Chittenden	70 PSF
Barre City	50 PSF	Clarendon	50 PSF
Barton	60 PSF	Colchester	40 PSF
Belvidere	60 PSF	Concord	60 PSF
Bennington	40 PSF	Corinth	60 PSF
Benson	40 PSF	Cornwall	50 PSF
Berkshire	50 PSF	Coventry	50 PSF
Berlin	60 PSF	Craftsbury	60 PSF
Bethel	60 PSF	Danby	50 PSF
Bloomfield	60 PSF	Danville	60 PSF
Bolton	60 PSF	Derby	50 PSF
Bradford	50 PSF	Dorset	50 PSF
Braintree	60 PSF	Dover	70 PSF

MODULE: The Tao of SIPS, Pure Forms, Economy of Means.

We created a module for this project based on the most efficient use of Structural Insulated Panel System. These pre-fabricated panels have the ability to span and enclose space without the use of internal structure.

We are able to efficiently accommodate the local snow loading and the weight of the building itself using a 14' wide module.

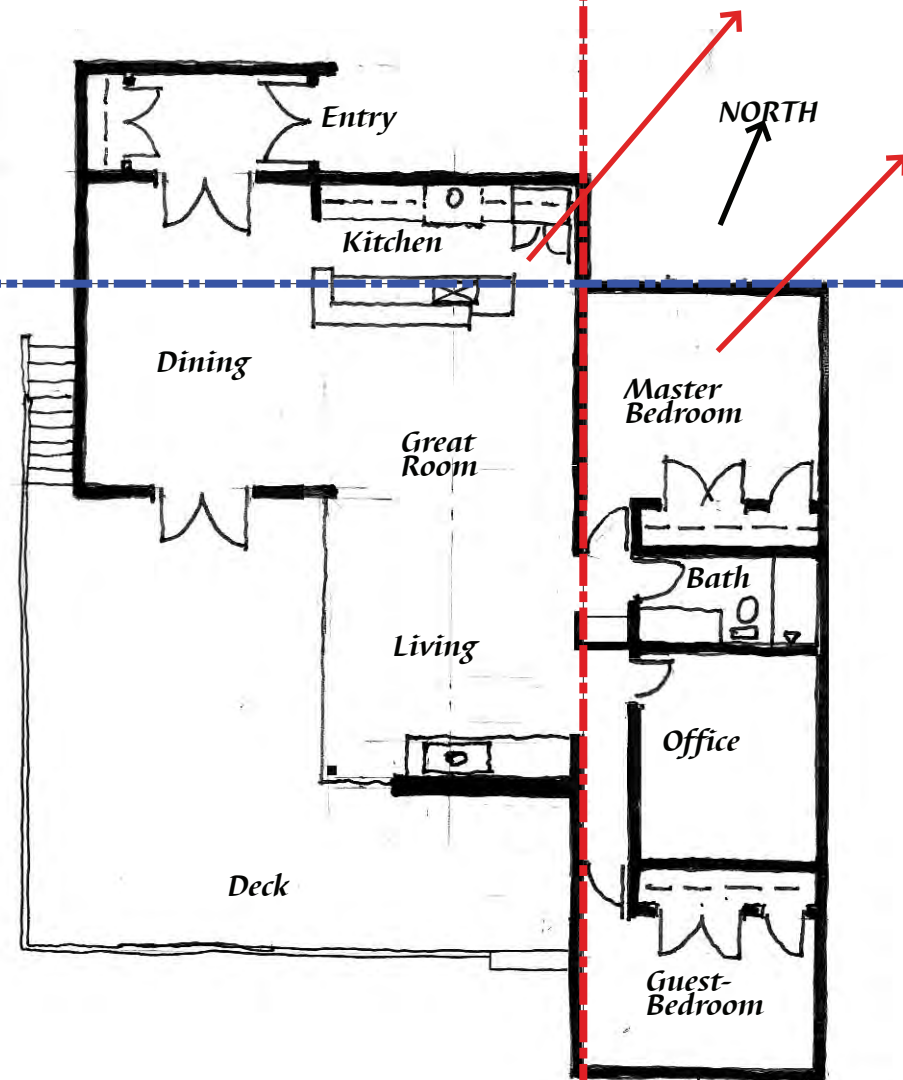
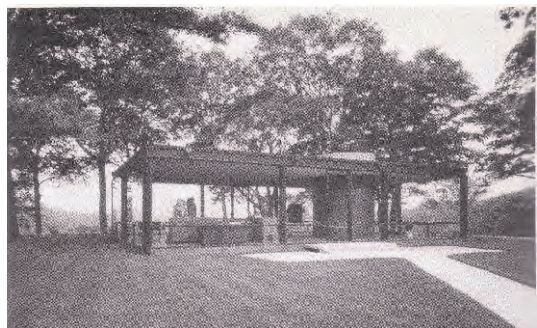
In order to shed snow and water we prefer to use a series of shed roofs. The pitch of 5 in 12 is the optimal pitch for roof construction. It is shallow enough to facilitate installation of roofing materials (cost implications) and yet just steep enough to shed melting snow (performance implications).

The roof springs from 8' (a standard panel dimension). The this height provides a comfortable, human scale which both encloses and inspires. The interior space soars and encourage the eye wander high...to the roof peaks and out the windows to the mountain peaks.

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PLAN A:

This one is my favorite.

This plan reveals itself slowly as one approaches. It gives way freely to the views on the opposite side of the building through a series of large fenestrated wall jogs.

The approach is observable from both the Master Bedroom and the Kitchen (red arrows). The Entry has a vestibule which contains a coat closet and acts as a wind break.

Upon entering we pass into the Great Room which has Dining, Living and Kitchen areas. The Kitchen commands the Living area which is long and opens to the views to the South West.

We propose that a fire place be aligned opposite the range hood on the other end of the Great Room. Both are centered in the space.

The Bedrooms and Bathroom are clustered along the side of the Great Room. This railroad car arrangement of comfortable spaces will have low (8') ceilings.

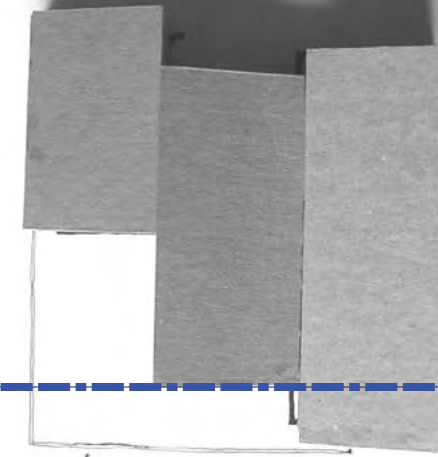
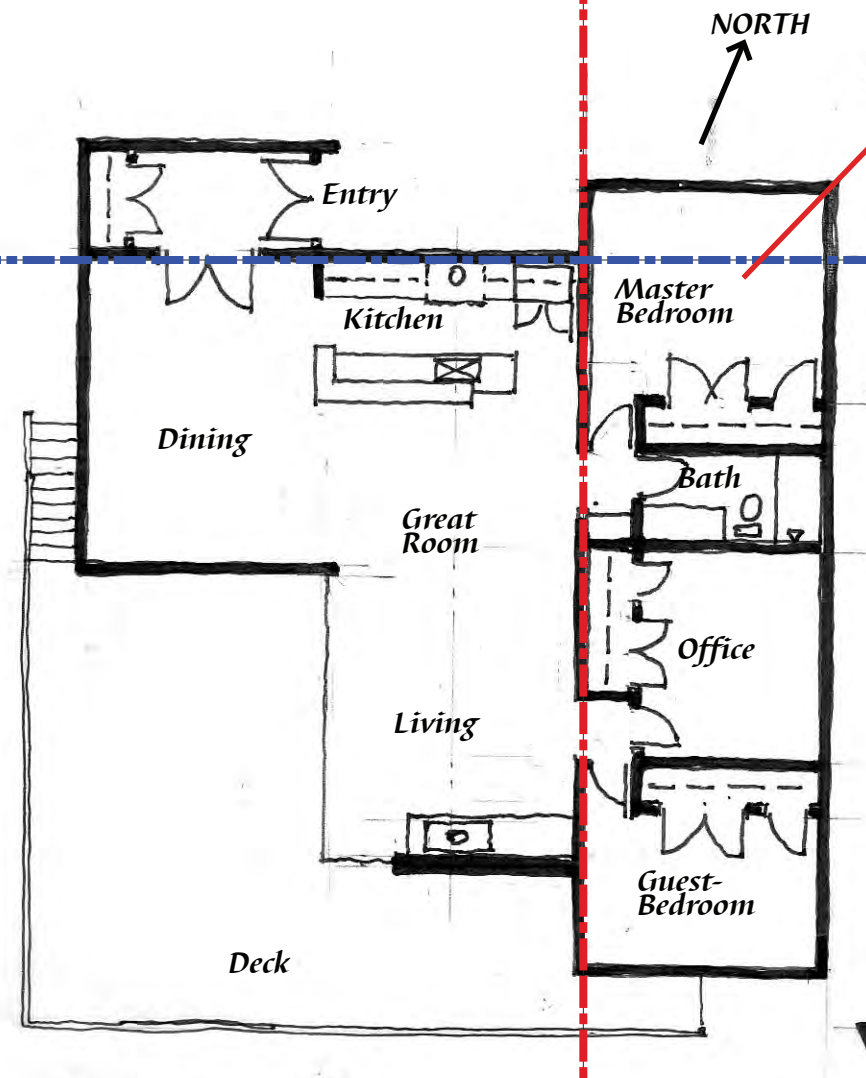
As the grade slopes to it's low point below the Entry / Dining areas. A concrete walk-out basement can be priced as an alternate in this area.

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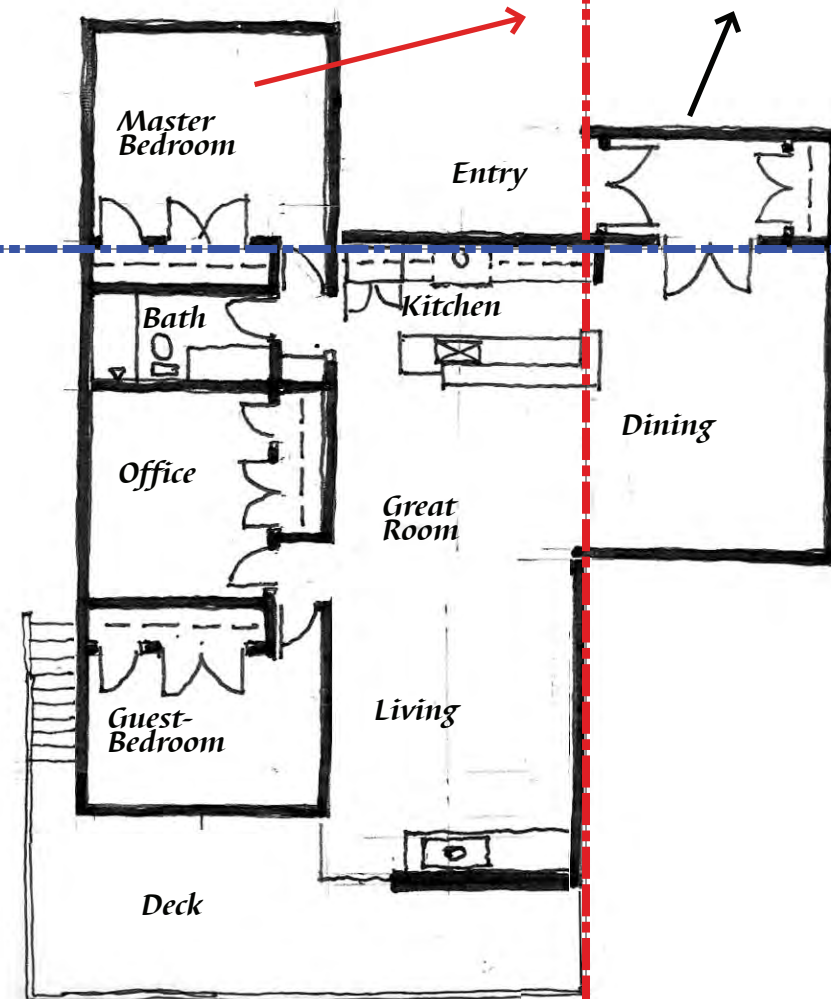
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PLAN B; Cousin of Plan A.

This plan features most of the same elements and arrangements as Plan A. It is more successful in the Bedroom arrangement - but is a little awkward in the approach sequence on the North side.





PLAN C: Flip it and See.

Like Plans A and B this shares the Great Room and Bedroom Cluster concept. The Entry and the Bedrooms are mirrored in the plan. I like that the Entry is shielded from the North wind by the building. This plan also has the crisp bedroom arrangement of Plan B. It falls short of the other two however in the views to the South West. The Great Room gets less of a view - the Bedrooms get more of the view...

