DIEGO ORTEGA

ADVANCED DETAILING STUDIO

Assignment Number: 3

[Monday 2/3]

Assignment research items:

Project climate conditions

Average temperature characteristics of New York City,

Average temperature characteristics of Irvine California

Mean Temperature - NY: 52.7 CALI: 62.2

Heating Degree Days-

NEW YORK IRVINE, CALIFORNIA

YEAR 2013

January 1063 390

February 998 315

March 902 193

April 511 118

May 191 50

June 27 20

July 1 9

August 0 14

September 116 32

October 296 115

November 736 192

December 1012 347

**TOTAL 5853**

Practical seasons- NY: 4 CALI: 2

Humidity- NY: 62.5% CALI: 65%

Precipitation- NY: 49.9 IN CALI: 14.3 IN

Temperature extremes records- NY: 106/15 CALI: 111/25

OEESC climate zone- NY: ZONE 4 CALI: ZONE 3

Wall strategy? Alberta Austria

Concealed barrier:

Face seal

Mass wall

Rainscreen rain screen rain screen

How does your wall address:

Durability- ( spray on foam insulation wood stud , ½” plywood sheathing , ½ “ gypsum board )

Dewpoint temperature

Water vapor diffusion

Air leakage continuous insulation

Diffuse Flow

Heat Flow within the wall

Are these strategies utilized in your project?

Vapor retarder

Air Barrier (air barrier)

Water Resistive Barrier (building paper)

Thermal Barrier (insulations) and what type(s)

Calculate the R-value for your wall.

Your team needs to address all the topics above. Some can be answered in short sentences, diagrams, and sketches. Show how they affect your wall assembly and where they are located in your system.