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Wood House Design

CM220 Homework Spring 2016

Assignment Description and Outcomes:

This assignment will give you the opportunity to select major structural elements for a residential structure.

Complete the following:

Using the IBC, select the following members

1. Rafters
2. Exterior Wall
3. Floor Joists
4. Floor Sheathing
5. Exterior Wall door header (opening 6'-0")
6. Fastening requirements for
 - i. Floor joist to sill
 - ii. Double top plates
 - iii. Top plate to stud
 - iv. Stud to sole plate
 - v. Jack stud to king stud

- Determine the cost of each element. (cite the source of your cost data)
- Clearly indicate your designs on a sketch or drawing
- Show all calculations and reference to IBC table used
- State any assumptions made

Assessment:

<u>Component</u>	<u>Points</u>	<u>Notes</u>
Rafters	2	
Wall	2	
Joists	2	
Sheathing	2	
Header	2	
Fastening	2	
Assumptions	2	clearly state any assumptions
Rationale (cost analysis)	5	justify your selections based on economy
Presentation of results (drawing)	3	
Organization	2	
Total	25	

Submittal Instructions:

1. Show designs on a drawing/sketch of the house
2. Submit hard copy (not through BBLearn) in class

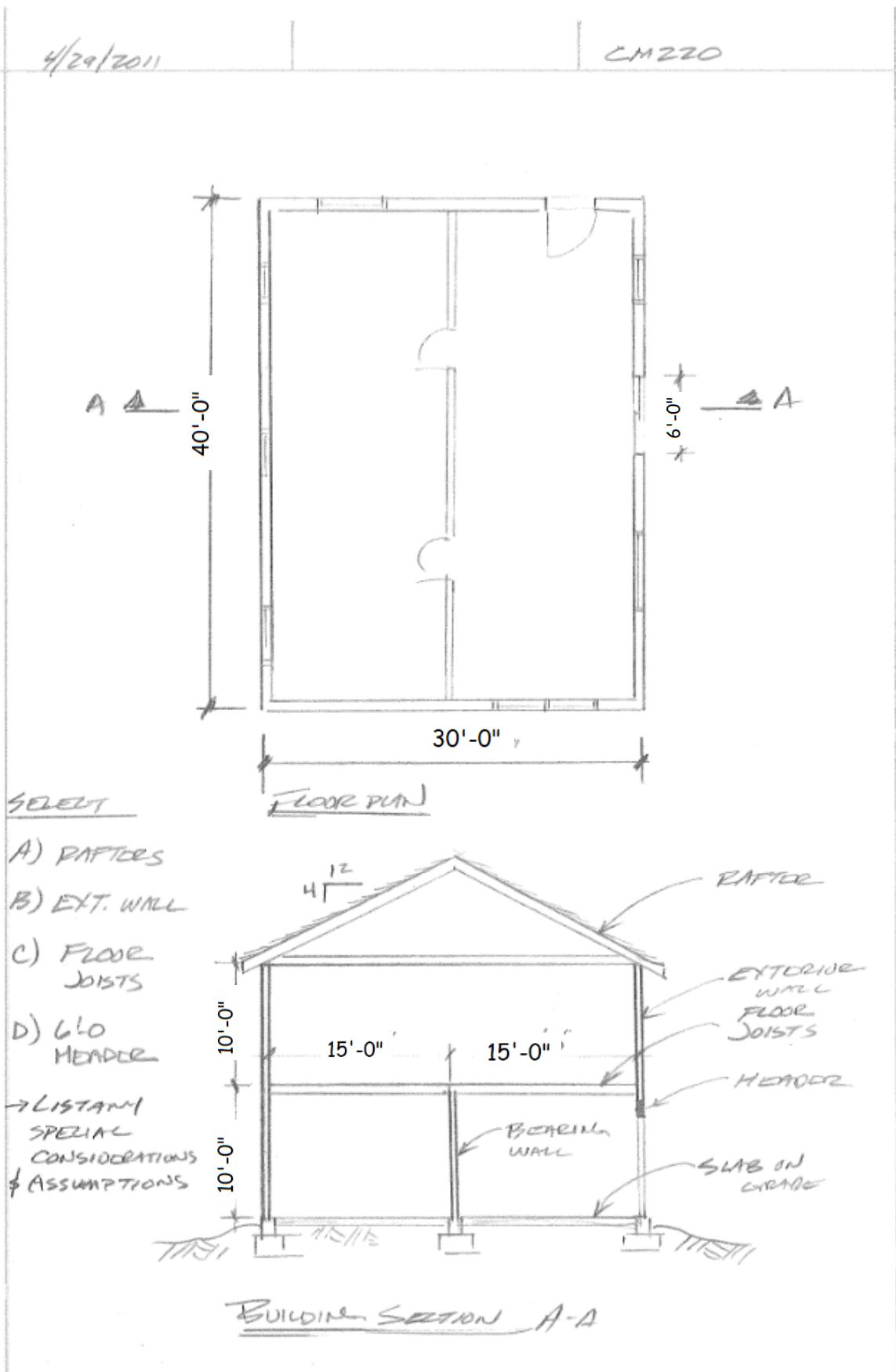
Attached Files:

See BbLearn for Design Aids	
See BbLearn for IBC	

4/29/2011

CM220

AMPAD



Building Section A-A



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