

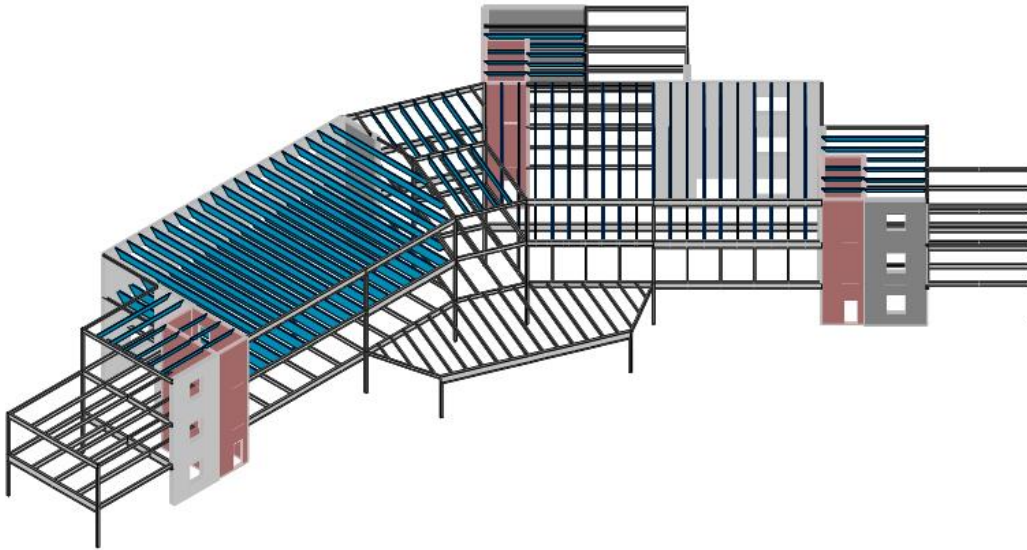
# RISAFloor Quick Start Course

Handout - Examples & Homework



RISA Tech, Inc.  
26632 Towne Centre Drive, Suite 210  
Foothill Ranch, California 92610  
Phone: (949) 951-5815  
Email: [info@risa.com](mailto:info@risa.com)  
[risa.com](http://risa.com)

## Example: Demonstration Model



This model is intended to illustrate a RISAFloor model with a moderate-to-advanced level of difficulty. We will use this model to explore the RISAFloor interface and to become familiar with the basic controls for model manipulation. This will include model view interfacing, selection tools, drawing tools, and spreadsheet operations.

### Given:

#### **Interface**

Toolbars  
Floor & Full Model Views  
Data Entry Spreadsheet List

#### **Materials**

Steel  
Masonry  
Concrete

#### **Elements**

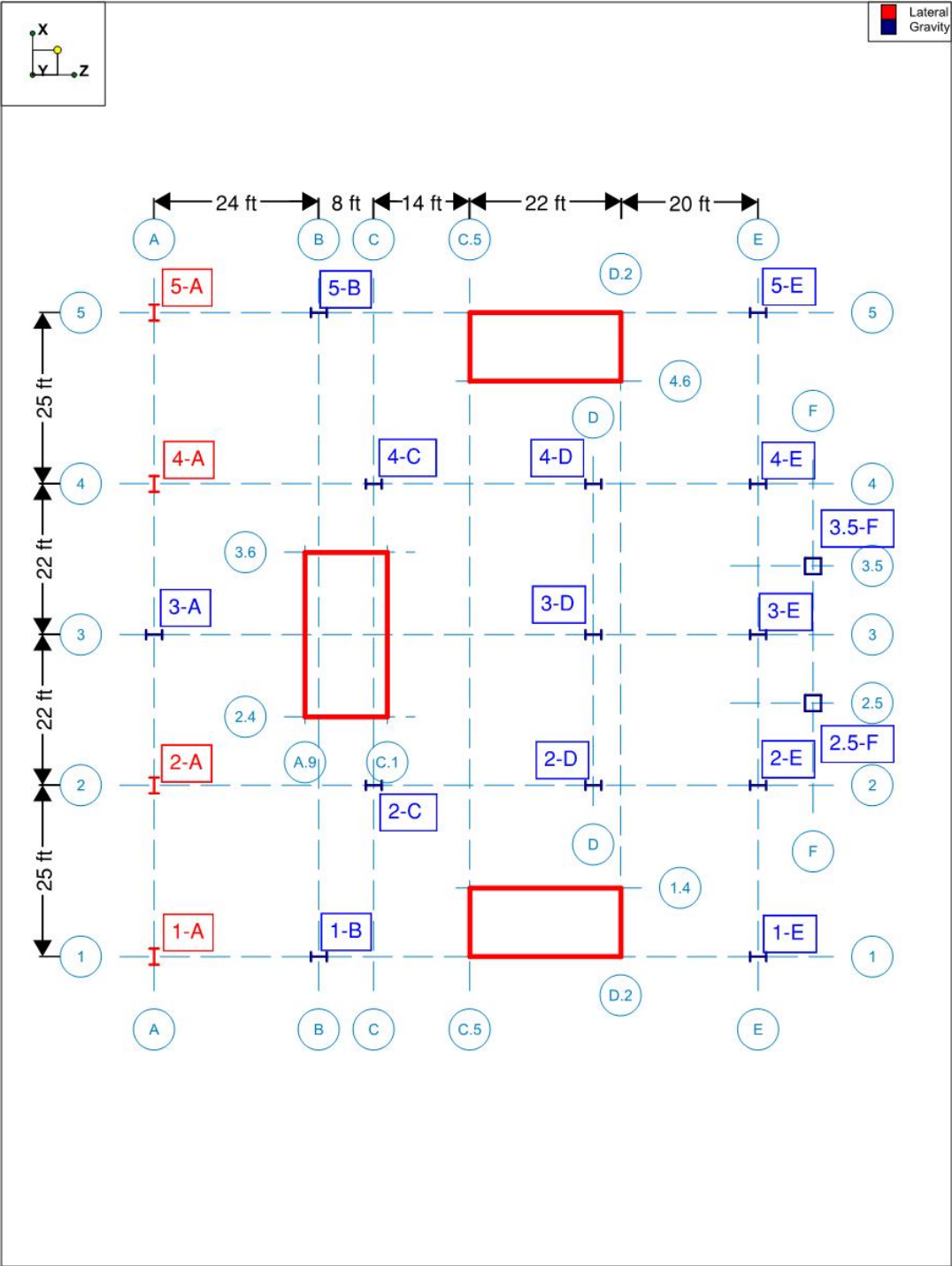
Columns  
Walls  
Beams  
Decking

#### **Loading**

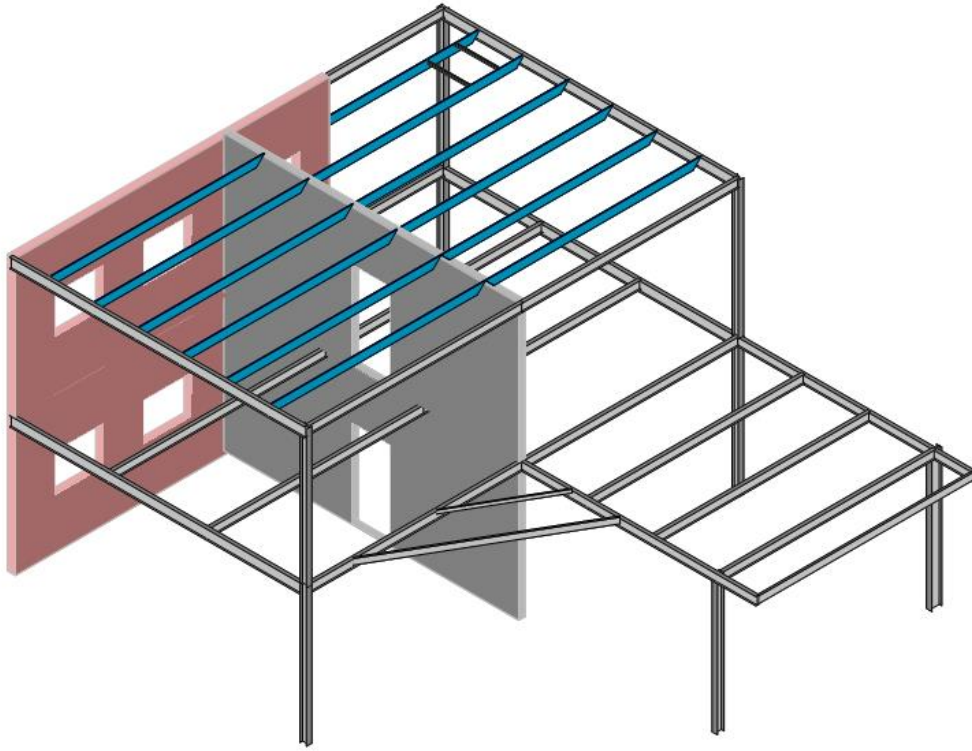
Self Weight of Elements & Decking  
Area Loads  
Point Loads

Example Model

Column Plan



## Homework: Two-Story Building



This model is intended to put into practice the skills learned on Day 1 of the RISAFloor Quick Start Course. Remember that there are often multiple ways to approach a modeling problem! Try your best to recreate this model using the information in the following pages, and utilize our Office Hours for assistance if needed.

## Homework: Floor Plan 1 Members

Given:

### Infill Beam Spacing

Bay 1-2: 10 ft spacing

Bay 2-3: 3 equal spaces

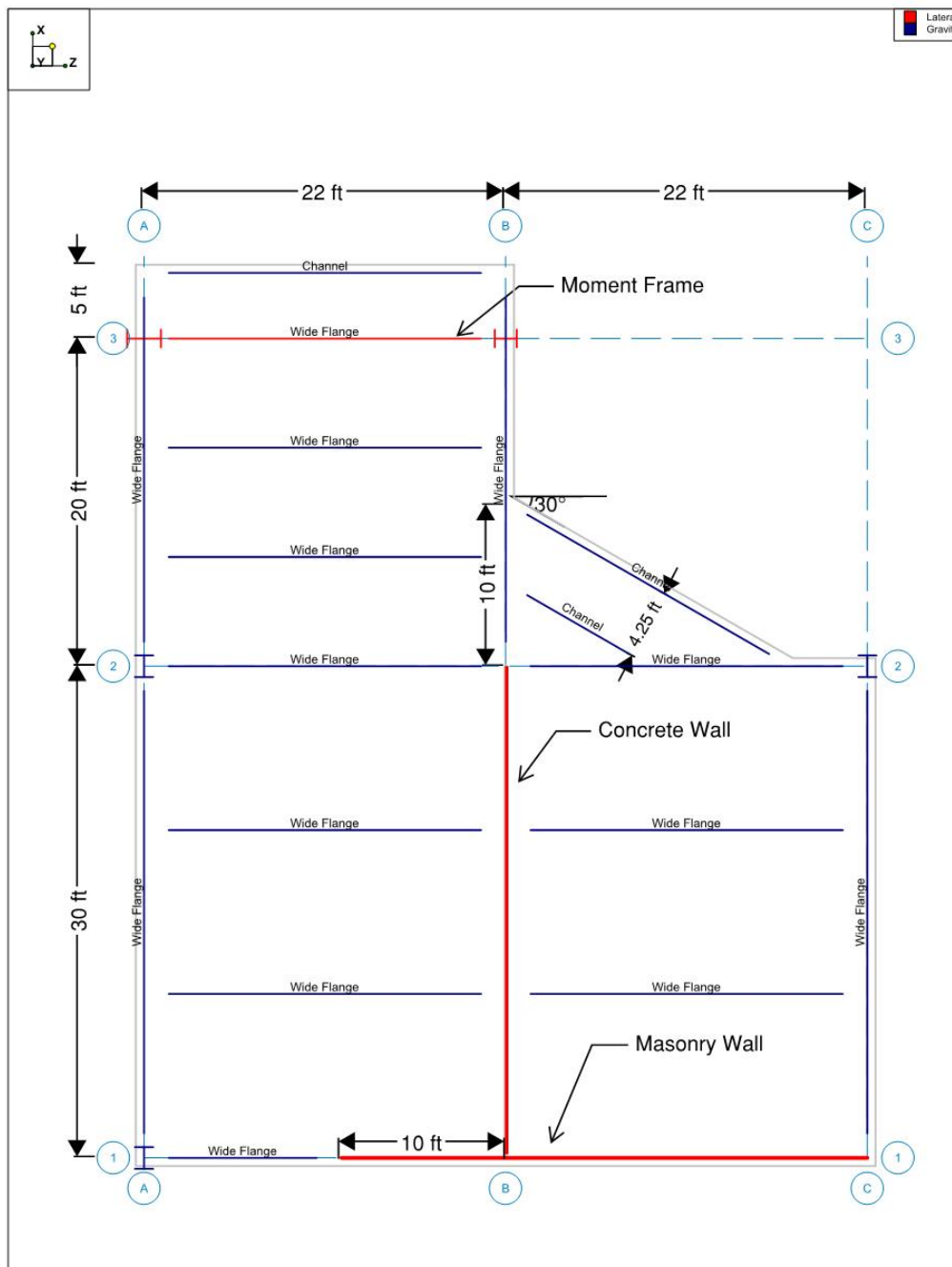
### Materials

W Sections: A992

C Channels: A36

Elevation: 14 ft

Diaphragm: Rigid, 6 inch offset



## Homework: Floor Plan 2 Members

Given:

### ***Infill Beam Spacing***

4.5 ft OC Joist Spacing, centered in bays

Elevation: 28 ft

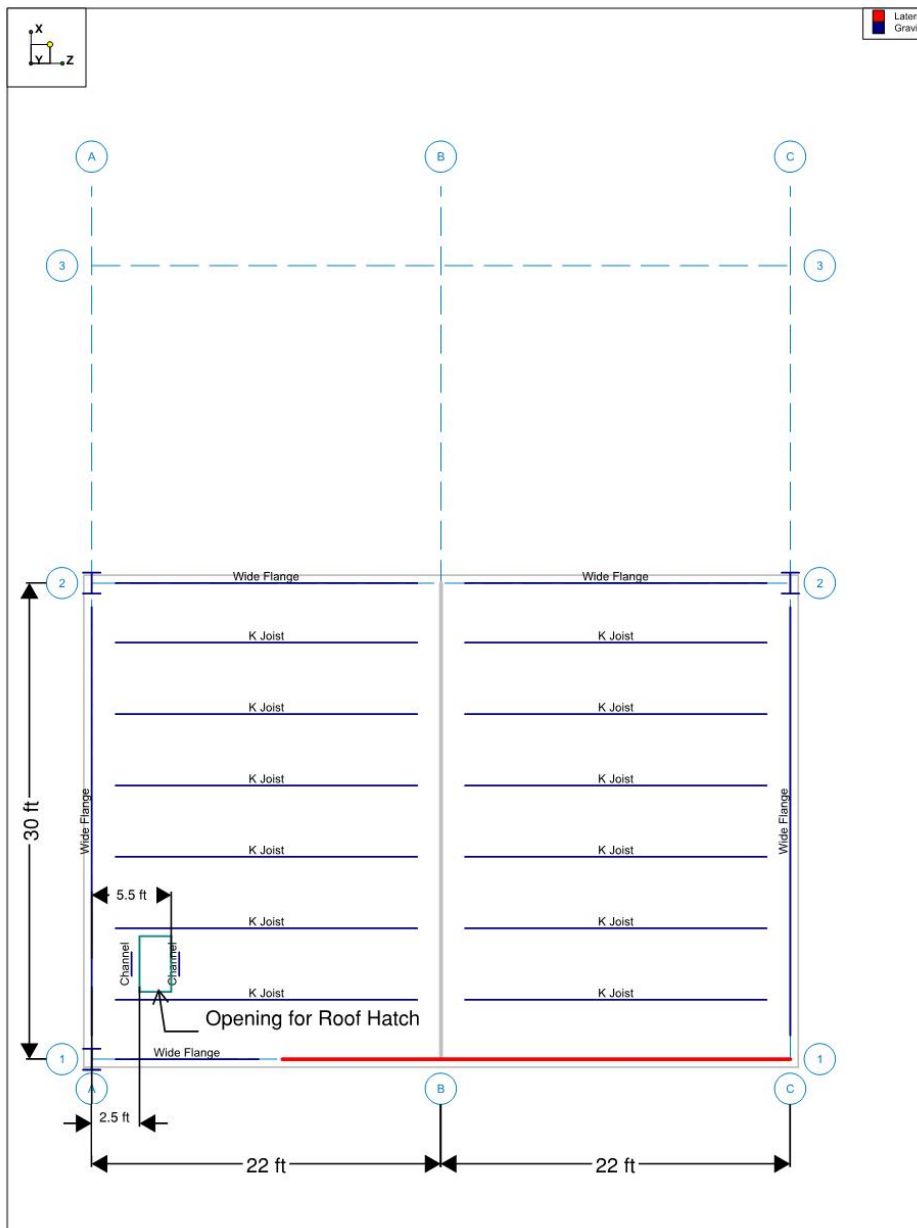
Diaphragm: Flexible , 6 inch offset

### ***Materials***

W Sections: A992

C Channels: A36

Steel Joists

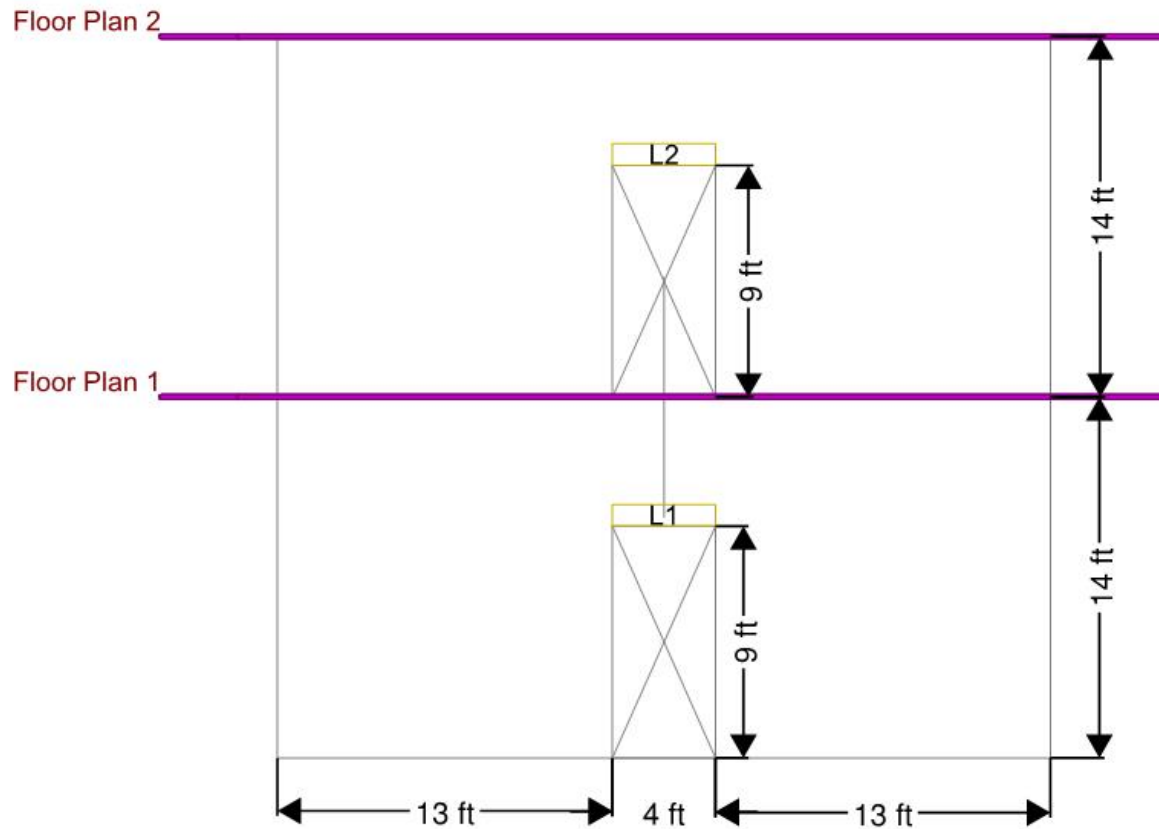


## Homework: Masonry Wall

Given:

### **Panel Wall Type**

Concrete 400 psi Normal Weight, 8" thick



## Homework: Masonry Wall

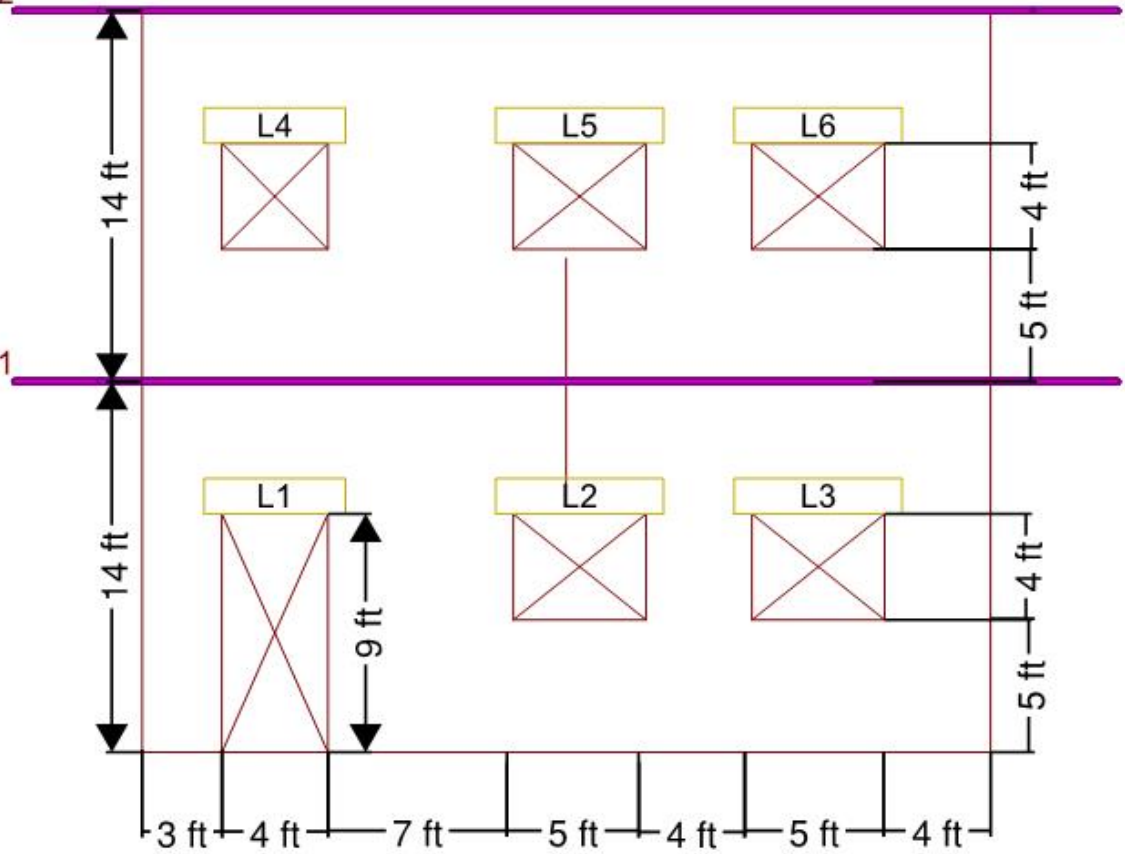
Given:

### ***Panel Wall Type***

Masonry, Concrete Material. 10" Blocks

Floor Plan 2

Floor Plan 1





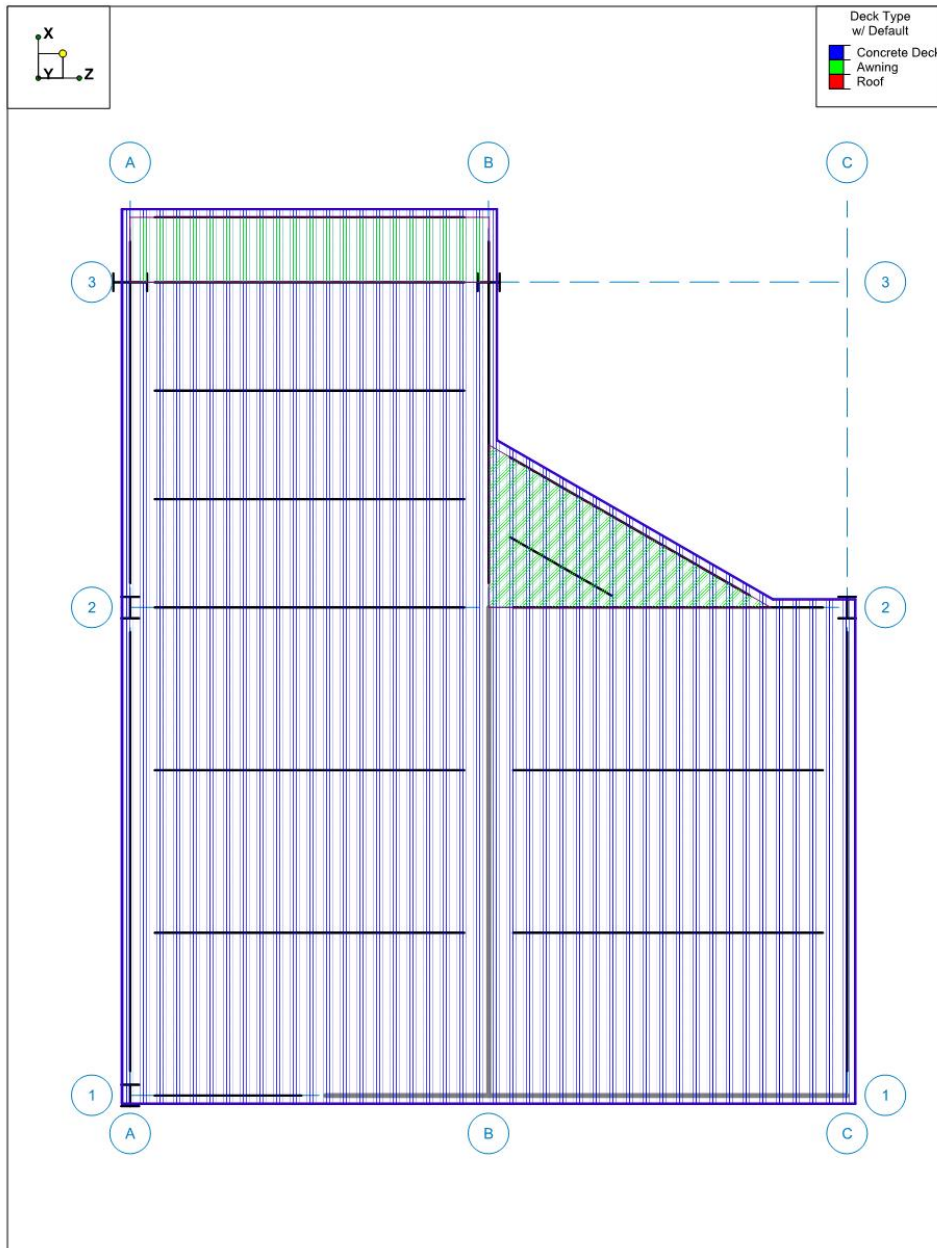
## Homework: Floor Plan 1 Deck Type

Given:

### **Deck Type**

Concrete Deck: 5" Normal Weight Concrete, 4,000 psi

Awning: ASC Steel Roof Deck

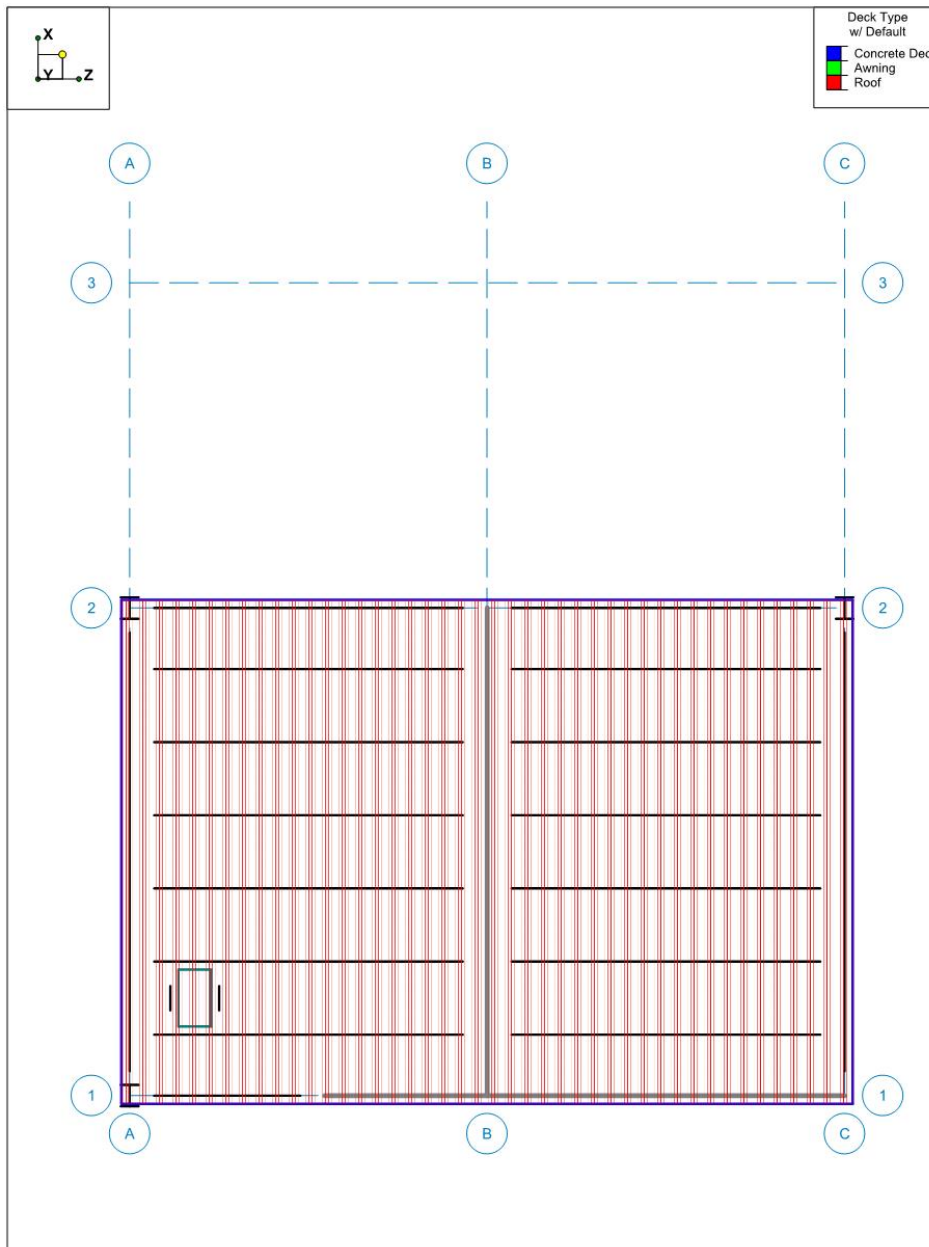


## Homework: Floor Plan 2 Deck Type

Given:

### ***Deck Type***

Roof: ASC Steel Roof Deck



## Homework: Floor Plan 1 Area Loads

Given:

### Loads

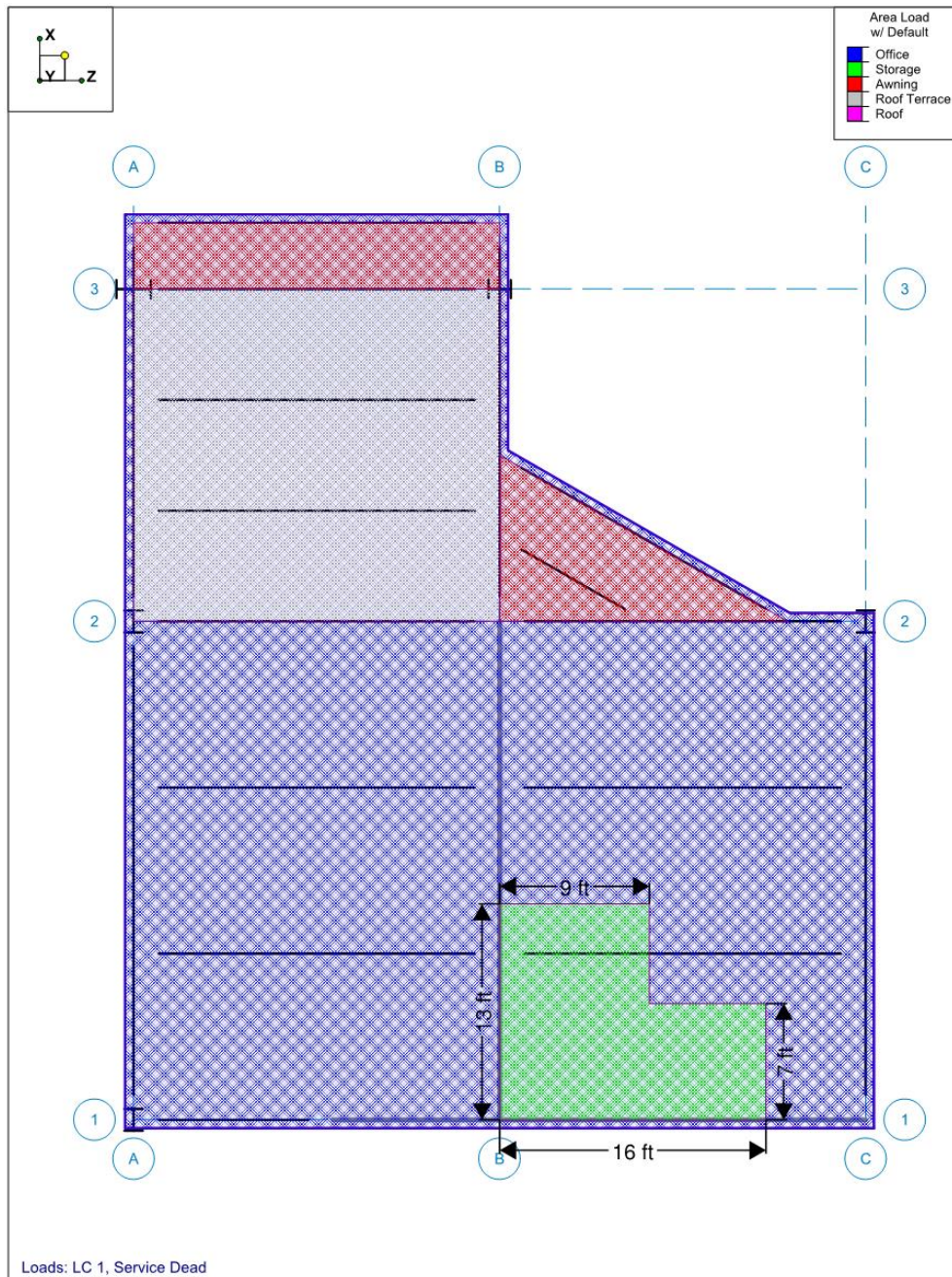
Office: PostDL= 20 psf LL= 80 psf

Storage: PostDL= 10 psf LL= 125 psf

Awning: PostDL= 10 psf LL= 20 psf

Roof Terrace: PostDL= 20 psf LL= 100 psf

Roof: PostDL= 5 psf LL= 20 psf



## Homework: Floor Plan 2 Area Loads

Given:

### **Loads**

Office: PostDL= 20 psf LL= 80 psf

Storage: PostDL= 10 psf LL= 125 psf

Awning: PostDL= 10 psf LL= 20 psf

Roof Terrace: PostDL= 20 psf LL= 100 psf

Roof: PostDL= 5 psf LL= 20 psf

