Design Loads Snow Loads Example #1

Use the following building and site info to solve for parts a through c:

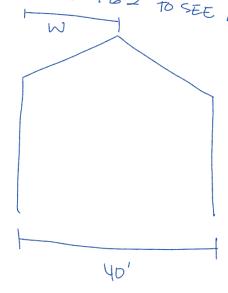
- Location = St. Anthony, Idaho
- Building Type = Residential Home
- Surface Roughness = B
- Gable Symmetrical Roof
- Roof Slope = 2:12
- Building Width = 40 ft

## Determine the following:

- a) Ground Snow Load
- b) Minimum Snow Load
- c) Flat Roof Snow Load
- d) Sloped Roof Snow Load
- e) Unbalanced Snow Load
- f) Draw the balanced and unbalanced snow load conditions

C+ → TABLE 7.3-2

## e) UN BALANCED SNOW LOAD →7.6



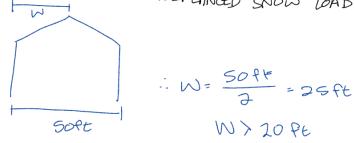
$$W = \frac{40'}{2} = 20'$$

W < 20ft :: UNBALANCED = IPg = 1.0 (37 psf) = 37 psf

## f) PRAW BALANCED & UNBALANCED -> . USE FIGURE 7.6-2

BALANGED TO LITTE WIND

IF BUILDING WIDTH = SO FE, DETERMINE & DRAW
BALANCED AND UNBALANCED SNOW LOAD.



THEREFORE, UNBALANCED

