Create a Revit model of the following parameters:

1. Elevations: (10pts)

![Figure 1. Elevations](image)

2. Place grid lines (1, 2, 3, A, B, and C) as shown below. Aligned and locked grid lines to face of exterior walls (12pts: 6pts grid lines, 6pts aligned and locked)

3. Place footings on interior of building (architectural columns) Level 1 with a base offset that will bring it flush to level 1. Use rectangular columns (concrete: precast concrete, 24”x24”x2). Align 4 footings along Grid B and equally space. (8pts: 2pts-correct material, 2pt level and offset, ; 2pts-aligned and locked to Grid; and 2pts-equally spaced)

![Figure 2. Footings](image)
4. Model a two story building using dimensions shown on attached sheet. (20pts)
5. Exterior wall is (4pts)

![Properties](image1)

6. Exterior walls extend to roof with a 2 foot parapet (4pts)
7. First Floor is 4 inch concrete slab (5pts)
8. Second floor is LW concrete on Metal deck (5pts)
9. Roof is flat (6pts)

![Properties](image2)

10. Roof material is (4pts)
11. 3 Windows (same location for level one and level two. A total of 6 windows, 3 on each floor) are
    Fixed 36” x 72” equally spaced (edge of wall to center of windows). (6pts: 2pts window type,
    4pts location). Windows are by grid 1 and 2.
12. Door (one door first level only), Double-Flush 72” X 84” and located per dimensions (4pts)
13. Dimension grid lines (4pts)
14. Create schedule doors and windows. Select your own columns. (4pts)
15. Create Material take-off of columns. Include material: area and material: volume. (4pts)