For this submittal, you will be designing the lateral load system for the project building.

Using the lateral wind load, design the cross-bracing for the braced frames. Assume the cross-bracing members can only take tension. Your design should consider story drift limitations as specified in Section 12.12 of ASCE 7-10. For now, use gravity loads to do “back of the envelope” calculations to determine a reasonable column section for the braced frames. (The size of the columns will not have much impact on the story drift—think about the difference in drift between the braced frame and the moment frame in the first RISA assignment.) You may use RISA-2D (or any other structural analysis program) to determine the story drift of the braced frame.

Please note that all pages with structural design calculations (e.g., software printouts, spreadsheets, hand calculations, etc.) must include the initials of the group member responsible for the calculations and the initials of another group member who checked the work.