## **Problem 1**

**Given:** Student design project.

#### Find:

1. Design a FR moment connection for beam to column joint on the first level. Provide sketch and details.

# **Problem 2**

Given: Student design project.

## Find:

1. Design a Bolted or welded beam splice connection for the long beam/girder used to support columns B2 and B3 on the second floor.

## **Problem 3**

**Given:** Student design project.

#### Find:

1. Design the gusset plate and gusset plate interface connections for the first level braces.