



Introduction & Attendance

- Agenda Overview
- Attendance

Activity 1

- Review of last classes work on concrete beams.
 - Discussion of Concrete Beam Sizing
 - Minimum width of beam for aggregate distribution and rebar coverage
- Discussion of brick coursing in elevation and section as a way to determine proper location of concrete slab as related to brick masonry cavity wall.

Activity 2

- In class tutorial for creation of steel structure
 - GYM : Wide Flange Columns and Steel Angle Double LL Trusses to span 100'
 - Atrium : HSS (High Strength Steel) Tubular Columns and tubular trusses
 - Laboratory : Wide Flange Steel Columns and Beams

Activity 3

- Discussion of Steel Wide Flange Beam Sizing and assignment to complete structural framing plan for second floor of the laboratory S-102

Wrap-Up - Assignments and Deadlines

- Current Assignment(s) & Due Dates –
 - S-102 Second Floor Framing Plan (1/8"=1'-0") due next class (Wednesday April 3)
 - Individual Case Studies Due next class (Wednesday April 3)
 - Case study to include an Atrium and a GYM requiring long span structures. Can be the same or two separate buildings.
 - Include location, date of construction, architect, engineer, client.
 - Identify Structural Systems, Mechanical Systems, Lighting & materials.
 - Identify the type of structural systems you plan on using for your own GYM & Atrium.
- Begin to prepare set of structural drawings for engineer handoff
 - S-100 Foundation Plan : GYM, ATRIUM, LAB (1/16"=1'-0")
 - S-101 First Floor Framing Plan : GYM, ATRIUM, LAB (1/16"=1'-0")
 - S-102 Second Floor Framing Plan : GYM, ATRIUM, LAB (1/16"=1'-0")
 - S-102.A Second Floor Framing Plan : ATRIUM (1/8"=1'-0")
 - S-102.G Second Floor Framing Plan : GYM (1/8"=1'-0")
 - S-102.L Second Floor Framing Plan : LAB (1/8"=1'-0")

(note: Add plan and section details)