

## **Extra Credit Assignment**

### **Part 1:** (up to 3 points added to course grade)

Take up to 6 photographs of trusses found in the Hampton Roads area (0.5 pts each).

Guidelines:

- Only trusses are allowed. No beams, girders, or other types of supports.
- Examples of trusses include bridge supports, roof supports (such as in attics or under picnic shelters, awnings, etc.), sign supports, and radio towers.
- Try to take photos such that the truss is as large as possible (fills most of the picture).
- Include a variety of structures.
- No students can submit the same picture.
- Put the photos into an 8.5" x 11" folder. Prints may be taped onto pages or scanned and printed. Digital photos should be printed.
- List the location, type of structure, and any other useful information with each picture.
- If you wish to submit trusses outside the Hampton Roads area, seek the instructor's permission ahead of time.

### **Part 2:** (up to 1 point added to course grade)

Take up to two additional photographs (0.5 pts each) in two of the three following categories:

- A) A truss containing zero-force members. Identify the zero force members with your submitted work.
- B) In class we typically show one end of a truss on rollers or rockers rather than on a fixed support. This allows a real truss to move due to expansion and contraction. Take a close-up picture of a bridge support (truss or beam) that is not fixed. Submit the picture and include a description of the support
- C) A truss that is of one of the standard types listed in the textbook (including the Pratt truss, Warren truss, Howe truss, Fink truss, Baltimore truss, and others). Identify the type of truss with your submitted work.