



**Senior Thesis Program**  
**The Department of Architectural Engineering**  
**The Pennsylvania State University**  
**University Park, PA**

***Faculty Consultant Review Form for  
Structural Technical Report No. 2***

Student Name: \_\_\_\_\_

Most if not all of the following items should have been addressed in this report. A check indicates that you have considered this requirement. Comments next to the item will indicate if the consultant has any questions about the concept or calculations used to address the requirement.

- ☐ **Executive Summary with conclusions and findings at start of report that confirm the results of the study and which framing systems appear to be continued candidates for the building.**
  
- ☐ **There is a basic introduction of the building and loading conditions or code loads that were used for this assignment. This should be a system description that puts the existing system into context.**
  
- ☐ **A floor plan and/or framing plan for the existing system is provided for reference. (This may be copied from Technical Assignment No. 1)**
  
- ☐ **There is a basic introduction and description of the existing structural floor system including typical framing layout.**
  
- ☐ **Preliminary or schematic sizing of typical or representative members was performed for each proposed floor system.**

- **Four (4) systems were proposed and studied. Typical framing plans and layouts for all four systems are included in the report including labeling of typical sizes and features as appropriate. (e.g. min. column size for a two way flat plate)**
  
- **A written comparison and discussion of each of the proposed systems is included. Discussion should include non structural advantages, disadvantages, concerns etc. Impact on the resistance of lateral loads or interface with a lateral resisting system should be discussed as appropriate.**
  
- **Impact of proposed systems on building foundations were noted.**
  
- **A summary comparison chart or graph must be included that shows the main structural and non structural features (pros and cons) of each system including the existing system.**
  
- **Report should provide a final summary or discussion that makes it clear which of the systems studied remain possible systems to be studied in the future.**
  
- **Appropriate back up calculations, charts etc. that were used to determine sizes should be included in the report or as an appendix as appropriate.**
  
- **Report is well written and easy to follow.**
  
- **Some comments have been written directly on your report. Please review.**

- ☐ **Comments on this report are extensive or difficult to explain in writing. Please schedule an appointment to go over this report with me in person.**
  
- ☐ **Additional Comments:**

**Overall Grade for this Assignment:** \_\_\_\_\_