

MARQUETTE UNIVERSITY
Department of Civil and Environmental Engineering
CEEN 189 - CIVIL ENGINEERING DESIGN

PROJECT ASSIGNMENTS - SPRING SEMESTER, 2008

I have contacted all project mentors to notify them that project assignments will be made in class on January 25th and that design teams will be contacting them shortly thereafter. Described below is the procedure to be followed by each design team upon notification of design project assignment.

1. Contact the assigned mentor(s) immediately and set up an initial meeting.
2. Obtain the second copy of your statement of qualifications from the instructor and submit it to your mentor(s) at the first meeting.
3. At the meeting, discuss the project in detail and prepare the following package of documents which will be due in lab during the 5th week of classes (February 12-14). All documents must be submitted on time or a penalty will be assessed.
 - a. A statement of work to be performed. Specific items which must be addressed and included in the statement are as follows:
 - (1) An itemized scope of project identifying the work that will be performed. Each project task should be identified and described in sufficient detail.
 - (2) A detailed schedule for completion of all project tasks identified in the scope of the project. Include estimated hours for each task and a total estimated time for the entire project.
 - b. An itemized list of charges that will be billed for design services provided.
 - c. A signed agreement between the design team and the mentor(s).
 - d. A one-page description of the project prepared in the required format, as illustrated by the attached examples.

Completion of the described documents will most likely require an additional number of meetings before a successful agreement is achieved. Be sure to allow enough time for this negotiation process in order to meet the indicated deadline.

JA Crovetti
January 18, 2008

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Include the following statements at an appropriate place in both the **Design Agreement** and **Final Design Report**:

1. This document is part of a Marquette University College of Engineering Senior Design Project. Senior Design Projects are intended to provide a realistic learning experience for students, including the forms and customs of professional business dealings. This document and all other materials provided by the students and Marquette University are student work. Such materials should be understood as simulations and are not intended for, and may not be used as, actual blueprints, designs, plans or finished work. Any Marquette student work must be reviewed, modified and approved by appropriate licensed professionals retained by you before any use of such material. All work is provided as-is, without warranty or representation.

2. Any fees indicated as charges for design services provided by the student team represent best estimates of the potential value of such work. Payment of any type for the indicated design services is neither intended nor allowed.

JA Crovetti
January, 2008

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CIVIL ENGINEERING DESIGN

**TEAM ____
PROJECT TITLE**

PROJECT DESCRIPTION - Three to four paragraphs centered on the page

MENTOR(S):

DATE: _____

FIRM:

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**TEAM 2B
CANAL STREET BRIDGE PROJECT**

This senior design project consists of a two-span prestressed girder concrete bridge along the new extension of Canal Street near the intersection of 26th Street, and crosses the Menomonee River. The design requirements will be for a four-lane vehicular transport bridge with sidewalks pursuant to the requirements of both AASHTO and WisDOT design specifications. The design team will investigate at least two alternatives and perform an engineering analysis to determine the most desirable structure type for this project. It is expected that prestressed girders will provide the most economical solution.

The design bridge is specifically those spans from pier 13 to pier 15 of unit 3 within the Canal Street viaduct extension. The team will be required to complete a structure survey report, perform load analysis with detailed calculations, perform detailed design calculations for each pier, abutment, and a typical interior girder, and select a deck design from the WisDOT Bridge Manual. The team will also complete both preliminary and engineering design drawings for the two-span bridge.

The design team will be provided with geotechnical soil analysis, including bearing limits and hydraulic analysis, and proposed roadway alignment geometric requirements, including grades, plan and profile information.

MENTORS: Steve Miller, P.E.
Thad Kosmicki, P.E.

DATE: February 12, 2007

FIRM: CH2MHill