Meeting No.: 3

Topic: Construction Documents

Present: See attached Attendance Sheet

1. **Site Fencing Plans.** Preliminary site fencing plans were reviewed. The following comments were noted and will be integrated into the development plan for use by the Design Team in developing a Soil Erosion plan.

    a. Pedestrian Access: CMU requests that north-south pedestrian pathways be maintained along the east edge of the project site. The team acknowledges that during tunnel construction this pathway may be temporarily closed.

    b. Pedestrian Access – West: A temporary asphalt pathway will be shown along the western site fence boundary. The proposed route should avoid existing mature trees where possible.

    c. Vehicle Access: CMU recommends that the general contractor locate vehicular access gates. Construction documents should limit construction traffic to Ojibway and be limited to the eastern boundary of the project site. A limited signage package should be included to provide on-site direction to construction traffic. Construction traffic should not utilize the existing bus turn around.

    d. Personnel Access: Personnel gates indicated are adequate.

2. **Site Preparation and Building Demolition**. DSA will develop a proposal for professional services and a proposed project schedule for the development of demolition documents for the existing campus apartment buildings. Based upon current projections, these documents will need to be released for bid by the end of February. The demolition of the buildings could contribute to possible LEED recycling. CMU will not pursue demolition debris recycling.

3. **Schedule Review**. A revised schedule was distributed that updated the project submittal date to the State Department of Management and Budget. The date was brought into alignment with the final review set. The following additional comments were noted:

    a. General Contractors will need to be pre-qualified 30 days in advance of project bid date.

    b. During the 2 day review session (February 7 and 8) some time will be set aside for discussion of the 50% CD project cost estimate.

4. **Design Review**. The following design topics were addressed:

    a. Based upon cost input from material suppliers, DSA recommends pursuing an alternate to natural slate veneer for the north wing and limited portions of the south tower. DSA presented a brick masonry sample that would offer a more economical material choice. The dark brick coordinates well with both the proposed terra cotta and slate cladding. CMU requests that DSA provide a proposal for pursuing a deduct alternate of brick masonry in lieu of slate.

    b. At the recommendation of CMU, DSA re-evaluated the proposed cornice design along the north and south elevations. Based upon the concerns of the Board and the

recommendation of both the Design Team and the University, the design will remain as currently indicated.

5. **Review of DD Narrative Comments**. DSA reviewed the corrected and updated DD Narrative document. The current narrative includes both CMU comments and comments received during the last MEP review session. Additional comments received during the 01/04/07 meeting will be incorporated into the current M|E narrative and delivered to CMU with the 50% Owner Review set.

6. **Miscellaneous MEP Items**.

    a. Enthalpy Wheel: DSA has reviewed the efficacy and estimated efficiency of the proposed enthalpy wheel system currently designed. Based upon the preliminary energy model, likely operating conditions, annual maintenance costs, and an estimated initial cost of $100,000, the wheel will have a 20-year pay back. By deleting the wheels, CMU will reduce the building's LEED efficiency points by (1) to current estimate of (3). CMU supports the removal of the enthalpy wheel system and associated controls.

    b. CO2 Monitoring: (1) monitor will be provided for each VAV terminal unit per current design and pricing set.

    c. Cast Iron versus Plastic Pipe: DSA will investigate plenum rated plastic pipe for use in sanitary sewer lines. DSA advises that cast iron will offer superior acoustical performance in both storm and sanitary pipe applications.

    d. Snowmelt Feed Pump: DSA recommends the inclusion of a package glycol feed pump. The system should include a simple alarm to indicate low-water condition.

7. **Next Meeting**. The next meeting will be February 7 and 8. Location TBD.

The above represents the items discussed and conclusions reached. If there are any required clarifications, please contact the undersigned.

Andrew J. Hetletvedt, AIA

Distribution: Meeting attendees
Central Michigan University
DSA project file

Education Building
Central Michigan University
Project No.: 7105.037.00

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A member of SHW Group

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Date: January 4, 2007

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Meeting Attendance
Date: January 4, 2007

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