AGENDA

1. Real Estate Transaction - Review - K. O’Brien/S. Weinberg (pp. 2-5)
   A. Purchase of 724 First Avenue SW, Rochester (Rochester Campus)

2. 2011-12 Committee Workplan Preliminary Discussion – D. Johnson/K. O’Brien (pp. 6-7)


4. Consent Report - Review/Action - K. O’Brien (pp. 9-12)

5. Information Items - K. O’Brien (pp. 13-28)
Facilities Committee

July 6, 2011

Agenda Item: Real Estate Transaction

☒ review ☐ review/action ☐ action ☐ discussion

Presenters: Vice President Kathleen O’Brien
Susan Carlson Weinberg, Director of Real Estate

Purpose:

☐ policy ☐ background/context ☒ oversight ☐ strategic positioning

In accordance with Board of Regents Policy: Reservation and Delegation of Authority, review the following real estate transaction:

A. Purchase of 724 First Avenue SW, Rochester (Rochester Campus)

Outline of Key Points/Policy Issues:

The details of this transaction and its financial impact are described in the transaction information pages immediately following this page.

Background Information:

Board of Regents Policy: Reservation and Delegation of Authority states that “The Board of Regents reserves to itself authority to approve the purchase or sale of real property having a value greater than $250,000 or larger than ten (10) acres” and all “leases of real property, easements and other interests in real property if the initial term amount to be paid by or to the University exceeds $250,000, consistent with Board policies.”

President's Recommendation for Action:

The President recommends approval of the following real estate transactions:

A. Purchase of 724 First Avenue SW, Rochester (Rochester Campus)
PURCHASE OF 724 FIRST AVENUE SW, ROCHESTER
(ROCHESTER CAMPUS)

1. **Recommended Action**

The President recommends that the appropriate administrative officers receive authorization to execute the appropriate documents providing for the purchase of the property at 724 First Avenue SW, Rochester.

2. **Location and Description of the Property**

The subject property is located in close proximity to and southwest of 617 and 701 Broadway Avenue South, Rochester, purchased previously by the University and across the street from the Rochester Area Family YMCA.

The property consists of .21 acre improved with a multi-tenant office building constructed in 1966 containing 7,000 gross square feet and 15 surface parking stalls.

The legal description of the property:

Lot 13, Part of Lot 14, and West ½ of adjacent vacated alleyway, Wilson’s Addition, City of Rochester, Olmsted County, Minnesota.

3. **Basis for Request**

The subject property is desired for future development for the Rochester Campus. The property would be operated as a multi-tenant office building until September 30, 2012, when all current office space leases expire. The building, which has reached the end of its useful life, would then be demolished.

4. **Details of Transaction**

The owner of the property is the Rochester Area Family YMCA. The purchase price is $400,000, to be paid in cash at the closing, which would occur on or before October 1, 2011.

5. **Use of Property**

The property would be operated as a multi-tenant office building until September 30, 2012, when all current office space leases would expire, and then the building would be demolished.
6. **Environmental**

The University has completed a Phase I environmental site assessment and a building hazardous materials and asbestos study which confirm the property is in acceptable environmental condition.

7. **Source of Funding**

The purchase of the property will be funded with University debt.

8. **Recommendations**

The above-described real estate transaction is appropriate:

Richard H. Pfunzerreuter III, Vice President for Finance and CFO

Stephen Lehmkühle, Chancellor, Rochester Campus

Kathleen O’Brien, Vice President for University Services
This map is intended to be used for planning purposes only and should not be relied upon where a survey is required.

Sources: Real Estate Office, MnDNR, MnDOT
Facilities Committee

Agenda Item: Committee 2011-12 Work Plan Discussion

☐ review  ☐ review/action  ☐ action  ☒ discussion

Presenters: Regent Dean Johnson
            Vice President Kathleen O’Brien

Purpose:

☐ policy  ☐ background/context  ☒ oversight  ☐ strategic positioning

According to Board of Regents Policy: Board Operations and Agenda Guidelines, Section II, Subdivision 7: Workplans, “Each year the Board and its committees develop work plans with the advice of the president or delegate.”

This discussion is intended to focus on major issues the committee may wish to address in FY 2011-12.

Outline of Key Points/Policy Issues:

The Facilities Committee oversees the University’s physical assets (e.g., land, buildings, infrastructure, and equipment). This committee considers the general adequacy, condition, and use of existing facilities; oversees policy related to physical planning, reviews renewal, replacement, and new construction decisions; and recommends the financing of capital projects.

Specifically, this committee recommends:

- six year capital plan
- annual capital budget;
- capital budget amendments;
- schematic plans;
- real estate transactions;
- disposition of historic resources; and
- district and campus master plans.

This committee also:

- reviews semi-annual capital improvement reports; and
- receives miscellaneous facilities management reports and notification of significant issues.

Background Information:

The Board of Regents will discuss work plan issues at its July 2011 retreat.
The Facilities Committee oversees the University’s physical assets (e.g., land, buildings, infrastructure, and equipment). This committee considers the general adequacy, condition, and use of existing facilities; oversees policy related to physical planning, utilities and energy management; reviews renewal, replacement, and new construction decisions; and recommends the financing of capital projects.

Specifically, this committee recommends:
- Campus Master Plans
- Six Year Capital Plan
- Annual Capital Budget
- Capital Budget Amendments
- Schematic Plans
- Real Estate Purchases, Sales and Leases
- Disposition of Historic Resources

The following issues will be considered by the committee in addition to the normal business items:

**Facilities Committee Agenda Items**

**Annual issues to be addressed:**
- Capital Planning and Project Management Semi-Annual Project Report
- Facilities Condition Assessment (FCA)
- Utilities and Energy Management annual report
- Report on Sustainability and Energy Efficiency Policy and University Sustainability Goals
- Issues related to: Annual Capital Budget
- Issues related to: Six-year Capital Plan

**Facilities-related Agenda Items for the Full Board**

**Annual issues for Board of Regents action:**
- Six year Capital Plan
- Annual Capital Budget
- State Capital Request

**Additional items for consideration by the Board:**
- Capital Plan Alignment with Academic Priorities

**Additional items for consideration by the Facilities Committee:**
- Report on Research Infrastructure
- Report on Clinical Facilities
- Report on Auxiliaries Capital Plan: Housing, Dining, Parking
- Space Utilization Update
- Building Decommission/Demolitions and the Impact
- Coordinate Campus Issues
Agenda Item: Issues related to: Preliminary 2012 State Capital Request

Presenters: Vice President Kathleen O'Brien

Purpose:

The State of Minnesota requires all state agencies, local governments, and the University of Minnesota to submit their "Preliminary Capital Requests" in June for consideration by the Governor and the legislature in preparation for the 2012 legislative session.

The purpose of the committee discussion is to provide additional detail regarding projects included in the 2012 capital request. Project descriptions are included in the docket materials for the full Board of Regents.

Outline of Key Points/Policy Issues:

The 2011 capital request continues to conform to the principles used in the development of the most recent six-year capital plan.

- Align capital plan with the established academic strategic positioning goals:
  - Recruit and educate outstanding students,
  - Recruit and support innovative, energetic world-class faculty and staff,
  - Inspire innovation, exploration, and discovery.

- Maintain continuity of priorities from previous legislative requests, including the restoration of funding for vetoed projects included in the University’s long-term capital plan.

- Protect the University’s financial position by keeping capital expenditures within projected debt capacity limits and controlling operating costs.
  - Be responsible stewards of resources.

- Invest in facilities and infrastructure that:
  - Advance the University’s life safety, renewal, and preservation objectives and sustainability policies,
  - Create flexible space, promote collaborative interdisciplinary activities, optimize space utilization, and reduce operational costs.

Background Information:

In February 2011, the Board of Regents approved a Supplemental 2011 State Capital Request. The 2012 State Capital Request continues the priorities outlined in the previous request.

In December 2009, the Board of Regents last updated the University's Six-Year Capital Improvements Plan for 2010 - 2015. The Preliminary 2012 State Capital Request has been modified from the adopted six-year plan to reflect current priorities.
Facilities Committee               July 6, 2011

Agenda Item:     Consent Report

☐ review               ☑ review/action               ☐ action               ☐ discussion

Presenters:       Vice President Kathleen O'Brien

Purpose:

☐ policy               ☐ background/context               ☑ oversight               ☐ strategic positioning

In accordance with Board of Regents Policy: Reservation and Delegation of Authority, review and recommend approval of the following real estate transaction:

A. Purchase of 518 Ontario Street SE, Minneapolis (Twin Cities Campus)

Outline of Key Points/Policy Issues:

The details of this transaction and its financial impact are described in the transaction information pages immediately following this page.

Background Information:

Board of Regents Policy: Reservation and Delegation of Authority states that “The Board of Regents reserves to itself authority to approve the purchase or sale of real property having a value greater than $250,000 or larger than ten (10) acres, and all leases, easements, and other interests in real property with a present value of the gross rent to be paid by or to the University during the initial term in excess of $250,000, consistent with Board policies.”

In accordance with the Board of Regents Calendar, which is included in Board of Regents Policy: Board Operations and Agenda Guidelines, the “sale or purchase of real property between 10 and 40 acres, or with a value between $250,000 and $500,000” and “leases with a present value between $250,000 and $500,000” are presented for review/action as part of the Facilities Committee Consent Report.

President's Recommendation for Action:

The President recommends approval of the Consent Report.
PURCHASE OF 518 ONTARIO STREET SE, MINNEAPOLIS (TWINS CITIES CAMPUS)

1. Recommended Action

The President recommends that the appropriate administrative officers receive authorization to execute the appropriate documents providing for the purchase of 518 Ontario Street SE, Minneapolis.

2. Location and Description of the Property

The property is located in the block south of the University’s Oak Street Parking Ramp, west of the block purchased from Dinnaken Properties’ Ontario Street LLC in 2004, and east of the Superblock (Territorial, Frontier, Centennial and Pioneer Halls). The property consists of 0.15 acre improved with a 2-story residential-duplex constructed in 1900.

The legal description of the property is:

Lot 8, Block 11 of Baker’s Addition to St. Anthony, Hennepin County, Minnesota

3. Basis for Request

The acquisition of this property provides an opportunity to serve a number of potential University needs in conjunction with future expansion of the Twin Cities-Minneapolis Campus. The subject property could be used in the short term for surface parking and/or a staging area for a construction project in the area.

The current building on the subject property has reached the end of its useful life. The University will demolish the building after its purchase of the property.

4. Details of Transaction

The University would pay $289,000 in cash for the property. Closing would occur on or before October 1, 2011. The seller is Linda Bergman.

5. Use of the Property

No specific long-term use of the property has been determined. The University’s Minneapolis-East Bank Campus is landlocked and additional land needed for expansion is very difficult and costly to acquire. This purchase is viewed as an opportunity purchase, providing land for University needs as they arise in the future. The existing building will be demolished after acquisition of the property. In the short term, the
property could be used for surface parking and/or a staging area for a construction project in the area.

6. **Environmental**

The University will be completing a Phase I environmental site assessment and a Hazardous Materials and Asbestos building survey prior to closing to confirm the property is in acceptable environmental condition.

7. **Source of Funding**

The purchase of the property will be funded with University debt.

8. **Recommendations**

The above-described real estate transaction is appropriate:

Richard H. Pfitzenreuter III, Vice President for Finance and CFO

E. Thomas Sullivan, Senior Vice President for Academic Affairs and Provost

Kathleen O’Brien, Vice President for University Services
Purchase of
518 Ontario Street SE
Minneapolis

Property to be purchased
University owned land
Non-university owned land

Base Data: Real Estate Office
MetroGIS, MNDNR, MNDOT

This map is intended to be used for planning purposes only and should not be relied upon where a survey is required.

Purchase of 518 Ontario Street SE
Minneapolis

Real Estate Office
University of Minnesota
Facilities Committee

Agenda Item: Information Items

☐ review ☐ review/action ☐ action ☒ discussion

Presenters: Vice President Kathleen O’Brien

Purpose:

☐ policy ☐ background/context ☒ oversight ☐ strategic positioning

To update the Board of Regents on the following item:


Outline of Key Points/Policy Issues:

This report includes projects in process that have been approved in the Capital Budget and for which the Regents have approved the Schematic Plans. The report highlights progress performed, challenges encountered in delivering the project scope of work within the approved budget and schedule.

In accordance with the Board of Regents Calendar, the Capital Planning and Project Management Semi-Annual Project Report is presented in the spring and in the fall to provide performance information prior to the consideration of the annual capital budget and the 6-year capital plan.

Background Information:

Information items are intended to provide the Board of Regents with information needed for them to perform their oversight responsibilities.
Capital Planning & Project Management (CPPM)

Semi-Annual Project Report
July 6, 2011
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EXECUTIVE SUMMARY

This Semi-Annual Project Report submitted by Capital Planning & Project Management includes projects in process that have been approved in the Capital Budget and for which the Regents have approved the Schematic Plans.

The projects in this report are organized by phase: Projects in Design, Projects in Construction, Projects Completed and Projects with Exceptions / Issues. A total of 19 projects are listed, 2 in design, 7 in construction, 9 that have been completed and 1 with exceptions / issues.
CPPM MEASURES & STRUCTURE

CPPM uses the following performance measures and accepts full accountability for the following:

- Meeting project scope expectations
- Delivering expected quality
- Delivering projects on schedule
- Delivering projects on budget
- Improving process productivity
- Limiting / eliminating legal liabilities
- Promoting targeted business participation
- Support University of Minnesota sustainability initiatives

CPPM Teams:

- CPPM is organized in the following Team structure:
  - Academic Health Center & Biomedical Discovery District
  - Provost
  - President/Administration, System Academic Administration, Athletic, Student Services, Out State
  - Planning & Architecture
  - Best Value / Business Process
PROJECT STATUS

Projects in Design

Lind Hall First Floor Remodel

**Description:** The main scope of this Project includes the renovation and modernization of the entire first floor of Lind Hall (20,200 GSF) as a new central location for a Student Services and Welcome Center for the College of Science and Engineering.

- **Project Executive:** Michael Perkins
- **A & E Firm:** Collaborative Design
- **Budget:** $6,200,000
- **Schedule:** January 2012

  - Project is on schedule and within budget

Physics & Nanotechnology Building

**Description:** The new Physics/Nanotechnology building will be approximately 144,000 square feet. It will be located on the site bounded by Civil Engineering to the north, Akerman Hall to the west, Scholars Walk to the south and Recreation Center to the east adjacent to the existing Institute of Technology (IT) campus. The building will house approximately 200 faculty, postdoctorate, graduate level, and visiting researchers. The facility also includes forty research laboratories, and a 5,000 net square foot Nano cleanroom laboratory designed for Class 100 chip fabrication and Class 1000 bio-nano work.

- **Project Executive:** Michael Perkins
- **A & E Firm:** Architectural Alliance
- **Budget:** $83,000,000
- **Schedule:** June 2014

- Legislature approved $4M to go towards the design fee
- Design development is now complete, moving in to construction documents
- **Project planning and design is on schedule and within budget**
Projects in Construction

Biomedical Facilities – Cancer / Cardiology Research Center

Description: This project will provide approximately 280,000 square feet of space for chemistry and biology labs, lab support, and office space to support Cancer and Cardiovascular research. It also includes shared research and public commons on the first level that will house a large vivarium, shared instrumentation spaces, meeting space and a small food service venue. The project will be connected to the Medical Biosciences Building and linked by skyway to the Center for Magnetic Resonance Research.

- Project Executive: Kathleen O’Brien
- A & E Firm: Architectural Alliance
- Budget: $200,300,000
- Schedule: May 2013
- Construction started in March 2011
- Completion in May 2013
- Project is on schedule and within budget

Mayo Garage – NMR Relocation

Description: The project consists of complete interior renovation of the current garage. The temporarily shored, structurally unsound upper parking deck will be removed. Construction will provide level floor surfaces and fully isolated (vibration) concrete slabs in the NMR lab. Completely new building systems (Mechanical, Electrical, Life Safety, etc.) will be constructed to serve the repurposed building. Improvements to the on-grade plaza have not been fully developed yet but will need to be fully constructed in the construction period of this project.

- Project Director: Richard Johnson
- A & E Firm: BWBR Architects
- Budget: $23,546,000
- Schedule: August 2011
- GMP has been established
- Project is on schedule and within budget
Northrop Auditorium Phase II Interior Renovation

Description: Northrop Auditorium will become a pre-eminent Cultural Center that inspires and nourishes the human spirit by creating a +/-2,800-seat hall with excellent acoustics and sightlines, and state-of-the-art technologies to provide the highest quality experience attainable. Northrop will house the University Honors Program, the Institute for Advanced Study, and the Innovation by Design Lab.

Project Executive: Kathleen O'Brien
A & E Firm: HGA Architects
Budget: $80,830,000
Schedule: Summer/Fall 2013

- Design development phase complete
- Construction documents phase to be complete July 2011
- GMP has been established
- Construction has started
- Project is on schedule and within budget

Recreational Sports Field – Inflatable Field Bubble

Description: Construction of an enclosed (inflatable structure) synthetic turf field on the Bierman Fields on the East Bank campus to meet the programmatic demands of intramural and sports club teams for recreational activities. The indoor field will provide a variety of sports and activities for University students during the late fall, winter and early spring.

Project Executive: Michael Perkins
A & E Firm: Studio Five
Budget: $7,280,000
Schedule: December 2011

- Construction has started
- Project is on schedule and within budget.
Smith Hall Room 21 & 23 Remodel (Blank Lab Relocation)

**Description:** Relocate the Department of Chemistry, Blank Research Group Labs from the north side of the lower level of Kolthoff Hall to a new location on the northeast corner of Smith Hall. The reason for the relocation is the operational continuity of the Blank Research Group Lab and its research during the Central Corridor Light Rail Transit construction and operation.

- Construction has started
- **Project is on schedule and within budget**

![Smith Hall Room 21 & 23 Remodel](image)

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<tr>
<th>Project Director:</th>
<th>Rick Johnson</th>
<th>Project Manager:</th>
<th>Pete Nickel</th>
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<td>A &amp; E Firm:</td>
<td>BWBR Architects</td>
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UMORE Park Wind Turbine

**Description:** The majority of the UMN project involves construction of wind research site at UMORE Park. A 2.5 megawatt turbine will be installed at the site along with a 130-m tall meteorological tower. Once completed, the facility will serve as a national research site for wind power research. The research program targets basic and applied research performed in close collaboration with wind industry partners.

- Turbine to be erected in September
- **Project is within budget**

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<tr>
<th>Project Executive:</th>
<th>Michael Perkins</th>
<th>Project Manager:</th>
<th>Chuck Koncker</th>
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<tr>
<td>A &amp; E Firm:</td>
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**University Recreation Center Expansion**

**Description:** The URC expansion includes a 148,000 Gross Square Feet, four-level addition to the existing south side of the University Recreation Center. The program for the expansion of the Sports and Recreation Center on the University Minnesota main campus consists of the following components: a two-court gymnasium, fitness and weights area, seven multi-purpose rooms, outdoor recreation center with a climbing wall, locker rooms, jogging track, offices and miscellaneous spaces. The entry of the building also has a café with an associated serve-and-prep area, public toilets and a social lounge.

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<tr>
<th><strong>Project Executive:</strong></th>
<th>Michael Perkins</th>
<th><strong>Project Manager:</strong></th>
<th>Roger Wenger</th>
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<tr>
<td><strong>A &amp; E Firm:</strong></td>
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- Design Development complete
- Construction documents phase to be complete July 2011
- GMP has been established
- Project is in construction
- **Project is on schedule and within budget**
Projects Completed

Administration Building Addition and Remodeling, WCROC

**Description:** The existing Administration Building at the WCROC constructed in 1972 no longer has the capacity needed for the programs housed in the building. In addition to the WCROC programs, a Regional Extension Center has been integrated into the WCROC facility. The existing building is also in need of upgrading to address a variety of code and deferred maintenance issues. The core of what occurs at the WCROC still lies in animal husbandry, crop production, and horticulture. However, it has embraced environmental and social issues, realized the importance of economics in all program areas, and developed a regional horticultural garden and a new endeavor named the University of Minnesota Renewable Energy Research and Demonstration Center.

- **Project Executive:** Michael Perkins  
- **Project Manager:** Oliver Real Estate  
- **A & E Firm:** JLG Architects  
- **Contractor:** JE Dunn  
- **Budget:** $3,945,000  
- **Schedule:** Fall 2009  
- **Project completed within budget**


Akerman Hall Hangar & Akerman/Mechanical Engineering Fire Life Safety Renovations

**Description:** Renovation of the hangar area of Akerman Hall which includes laboratory, office and collaborative spaces for undergraduate and graduate students in the Aerospace Engineering and Mechanics program. The project also encompasses fire, life, safety and accessibility upgrades in the Akerman Hall and Mechanical Engineering buildings.

- **Project Executive:** Michael Perkins  
- **Project Manager:** Pete Nickel  
- **A & E Firm:** BWBR Architects  
- **Contractor:** M A Mortenson  
- **Budget:** $10,400,000  
- **Schedule:** September 2011  
- **Project completed on schedule and within budget**
Bio-Mass / District Heating Addition, Morris Campus

Description: Through the gasification of corn stover, the Morris campus is seeking to expand its central heat plant capacity, as well as research the effectiveness of using locally grown biomass, to supplant their reliability on fossil fuels. This project is research in nature. The University hopes to demonstrate the opportunities for the use of biomass as a readily available and cost effective alternative for heating in rural community buildings such as hospitals, schools, clinics and businesses.

- Air emissions testing completed successfully
- Research/commissioning challenges remain
- Project completed within budget

Eastcliff Residence Projects

Description: This includes the renovation of the historic Eastcliff Summer House, the Eastcliff Second Floor Family Kitchen Remodel and the Eastcliff Security and Communication Systems Replacement.

- Project completed on schedule and within budget
Folwell Hall Interior Renovation

Description: This project will fully renovate the interior 115,000 gross square foot interior of Folwell Hall. The project will preserve the historical architecture of the building, marble floors, wainscoting and gargoyles, while at the same time creating a space capable of meeting the diverse educational needs of today’s students. The renovation of Folwell Hall will accommodate four language departments: German, Scandinavian & Dutch; French & Italian; Asian Language & Literature; and Spanish & Portuguese, including their faculty offices and teaching assistants. Thirty-one classrooms will be located more efficiently on the ground and first floors, thereby reducing travel distance for students. On a broader level, the renovation of Folwell Hall addresses the critical campus wide shortage of modernized teaching space by creating classrooms capable of supporting today’s technology oriented teaching methodologies.

Project Executive: Michael Perkins
A & E Firm: Miller-Dunwiddie Studio 5
Budget: $34,500,000
Schedule: Fall 2011

- Project completed on schedule and within budget

Jackson Hall 1st Floor Renovation

Description: The project consists of remodeling approximately 6,700 square feet of space. This project is being funded by and NIH grant. Finalization of construction documents will be based on NIH schedules. Work is separated into two areas: renovation of the Surgery and Physiological/Behavioral Testing area in the South wing and renovation of the Animal Imaging in the North wing.

Project Executive: Michael Perkins
A & E Firm: Architectural Alliance
Budget: $3,500,000
Schedule: June 2011

- Project completed within budget
**NOvA Project Phase I & Phase II**

**Description:** The scope of work consists of two subprojects. Phase I, Road Improvements and Site Preparation, includes the upgrade of approximately 3.5 miles of existing logging road to provide all weather access to the Far Detector Building, clearing and grubbing of the building site and the rock excavation for the Detector Enclosure. Phase II is for construction of the 41,000 GSF Far Detector Building. The building sits over a below grade enclosure (approximately 70 feet wide by 70 feet deep and 350 feet long). The enclosure will be situated approximately 40 feet into the rock and will have cast-in-place concrete floor slab and walls. The Physics Department will install detector equipment for the experiment after substantial completion of the construction portion.

- **Project Executive:** Michael Perkins
- **Project Manager:** Matt Stringfellow
- **A & E Firm:** Burns & McDonnell
- **Contractor:** Adolfson Peterson / Hoover
- **Budget:** $45,139,000
- **Schedule:** Winter 2011
- **Other:** All project capital cost funded by The U.S. Department of Energy
  - *Project completed within budget*

**Weisman Art Museum Addition**

**Description:** The project includes the addition of four galleries to the existing building that total 8,150 gross square feet. Mechanical and electrical modifications are included as well as moving the front sidewalk further north to provide space for the Target gallery addition.

- **Project Executive:** Michael Perkins
- **Project Manager:** LaSalle Group
- **A & E Firm:** Gehry Partners & HGA
- **Contractor:** J E Dunn
- **Budget:** $14,155,000
- **Schedule:** Fall 2011
  - *Project completed on schedule and within budget*
Wind Energy Conversion System – Turbine Installation, Morris Campus

Description: The project is to install and connect to the grid, one Vestas V82, 1.65 Megawatt wind turbine adjacent to the West Central Research and Outreach Center (WCROC). This new turbine is in addition to an existing wind turbine installed in 2005. The new wind turbine will be used for UM-Morris and any surplus power will be sold to Otter Tail Power company.

- Project completed within budget
Projects with Exceptions / Issues

Wind to Hydrogen to Ammonia, Morris Campus

Description: The University of Minnesota Morris will construct a globally unique research and demonstration facility to foster the development of wind, hydrogen, and other renewable energy sources. To store wind energy, electricity is converted to hydrogen by electrolysis of water and stored in compressed gas cylinders. When demand calls, the hydrogen is burned in an internal combustion engine to run a generator. In addition, the hydrogen will be converted into anhydrous ammonia for use as a fertilizer within the local community. The facility will provide researchers opportunities to measure efficiencies and optimized production of anhydrous ammonia fertilizer.

Project Executive: Michael Perkins
A & E Firm: Sebesta Blomberg
Budget: $3,750,000
Schedule: Fall 2011 – Anhydrous Project

- Redesigned to fit within the allocated budget
- **Hydrogen Project completed within budget**
- **Anhydrous Ammonia Project within budget and behind design schedule**