



# UNIVERSITY OF MINNESOTA

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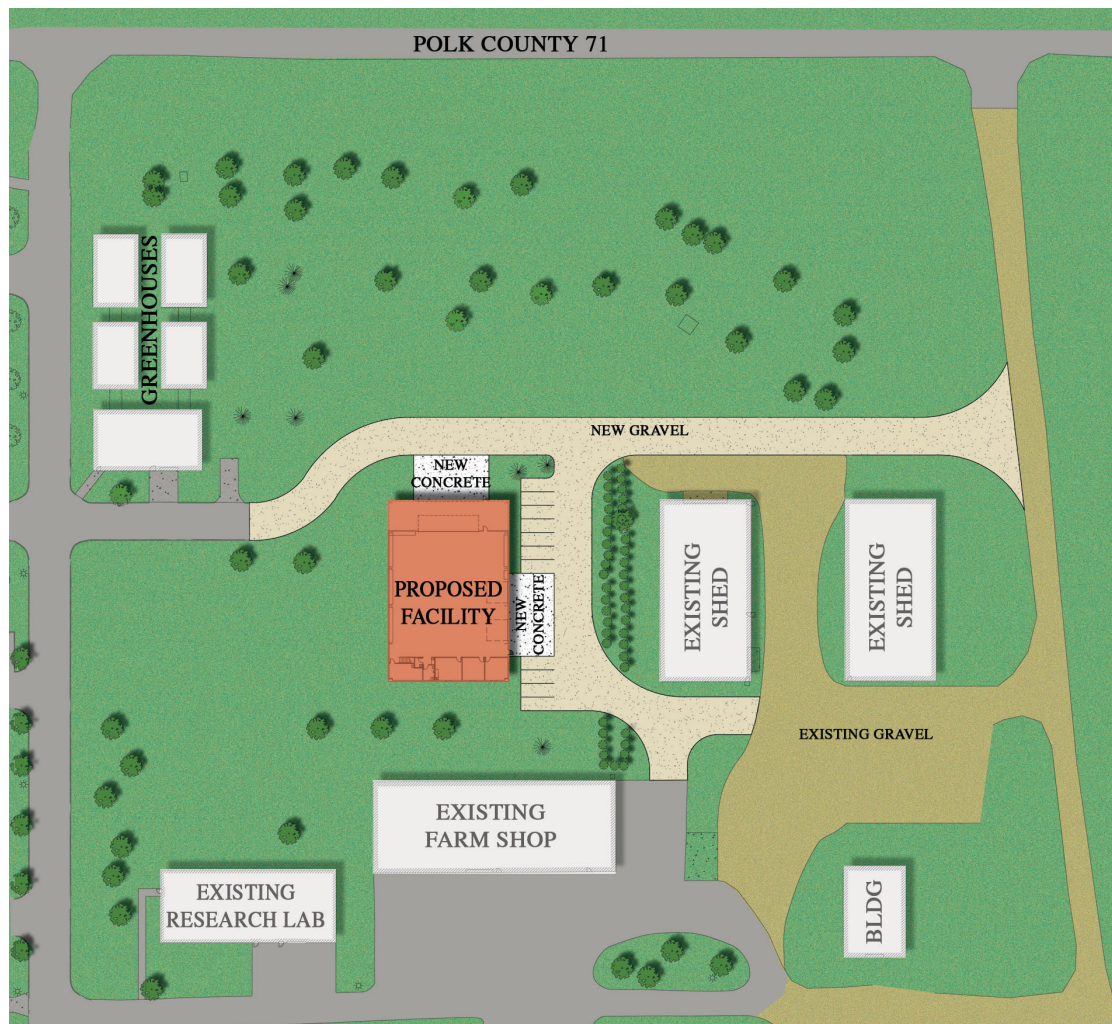
**Maintenance / Farm Research Operations Center  
Northwest Research and Outreach Center (NWROC)  
Crookston, Minnesota**

## **Crookston Campus**

# Location Map



# Site Plan



UNIVERSITY OF MINNESOTA **Crookston**



# Project Rationale

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- Mission

- The mission of the NWROC is to contribute, within the framework of the Minnesota Agricultural Experiment Station and the College of Food, Agricultural and Natural Resource Sciences, to the acquisition, interpretation and dissemination of research results to the people of Minnesota, with application to the knowledge base of the United States and World.



# Project Rationale

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- Basis for Request
  - Current facility does not accommodate the changes made in the crop and animal research and outreach mission at the NWROC.
  - Machine sizes have increased beyond the capacity of the existing buildings. Consequently, not all machine repairs can be made in a timely manner.
  - Program have been added
  - Current facility: has safety and code issues, insufficient office space and lacks toilets, lunch and conference space.
  - Existing facility is not energy efficient.

# Project Description

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## □ Scope of Project

- Single story pre-engineered metal building divided into 2 areas: farm research operations and equipment maintenance.
- 80 feet by 100 feet (8,000 sf), alternate to add an additional 20 feet of length (9,600 sf).
- Sealed concrete slab on grade reinforced for large equipment
- Exterior pre-finished metal panels consistent with the adjacent buildings.
- 20 foot high side walls allowing for larger overhead doors to accommodate large agricultural equipment.
- New gravel roads to improve circulation. Hydronic floor heating system (budget allowing).
- The location of this facility is consistent with the Campus Master Plan.

# Project Description - continued

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□ Cost Estimate

■ Construction	\$ 1,580,000
■ Non-construction	<u>420,000</u>
■ Total Project Cost	\$ 2,000,000

□ Capital Funding:

■ 2008 State Capital Appropriation	\$ 1,330,000
■ Northwest Research and Outreach Center	450,000
■ Internal Loan repaid by NROC	<u>220,000</u>
Total Approved Project Budget	\$ 2,000,000



# Project Description - continued

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- Anticipated Completion:
  - Spring 2009
  
- Estimated Annual Operating Costs:
  - \$10,000
  
- Architect:
  - Architect of Record: Foss Architecture & Interiors  
Moorhead, Minnesota
  
- Project Delivery Method:
  - Design – Bid - Build



# Building Exterior



# Building Exterior



NORTHEAST CORNER

# First Floor Plan



## 1ST FLOOR PLAN

- RESTROOM/JANITOR CLOSET
- OFFICE
- MECHANICAL ROOM
- BREAKROOM



# Second Floor Plan

