

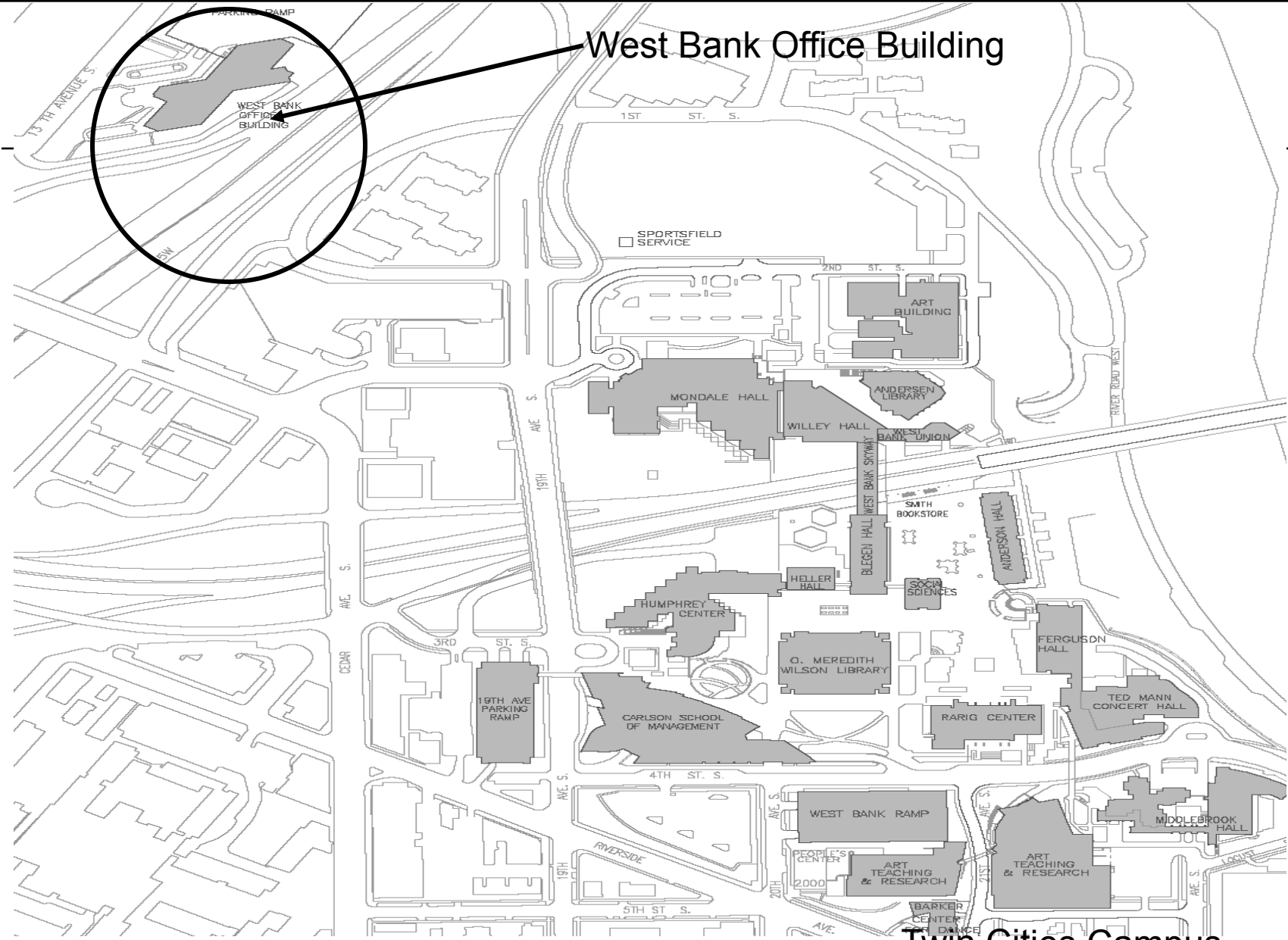


UNIVERSITY OF MINNESOTA

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**West Bank Office Building  
Data Center HVAC Upgrade  
Phase III**

**Twin Cities Campus**



West Bank Office Building

WEST BANK OFFICE BUILDING

Twin Cities Campus

# West Bank Office Building





# Project Rationale

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- One of the Data Centers that support the University Telecommunications & Central Computing Services is located in the West Bank Office Building
  
- Heating Ventilation & Air Conditioning & Emergency electrical systems are
  - Aging & lack adequate redundancy (original constructed in 1988)
  - Need expansion to handle today's operational demands



# Project Rationale

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- Phased Program To Upgrade Data Center:
  - Ph I – Increase cooling capacity & reliability – Completed
  - Ph II – Add cooling & power distribution – Completed
  - Ph III – This Project – Increase electrical system capacity & reliability

# Project Description

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- Increase electrical reliability of both mechanical cooling system & server operations:
  - Original Scope of Work:
    - New 2000 KW generator and automatic transfer switch
    - Temporary generator to:
      - Remove existing generator,
      - Realign building emergency life safety generator,
      - Complete site work
  - Added Scope of Work:
    - New data center electrical service and distribution to adapt to new generator and electrical service
    - New cooling system for switchgear and uninterrupted power source (frees up capacity in existing system for building space)
    - Interconnect equipment to central monitoring system
    - Interconnect 6<sup>th</sup> floor office lights/equipment to new generator

# Project Description - continued

□ Cost Estimate

■ Construction	\$ 2,500,000
■ Non-construction	<u>500,000</u>
■ Total Project Cost	\$ 3,000,000

□ Capital Funding:

	FY 2009		Amended
	<u>Cap Bud</u>	<u>Increase</u>	<u>Total</u>
■ Information Technology		\$ 220,000	\$ 220,000
■ Internal Loan	<u>\$1,500,000</u>	<u>1,280,000</u>	<u>2,780,000</u>
■ Total Funding	\$1,500,000	\$1,500,000	\$3,000,000



# Project Description - continued

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- Anticipated Completion:
  - August 2009
  
- Estimated Annual Operating Costs:
  - Additional operating cost will be paid by Office of Informational Technology
  
- Engineer:
  - Engineer of Record: Dunham Associates, Minneapolis
  
- Project Delivery Method:
  - Design – Bid – Build



# Location of new Generator





# Existing Generators

