

**AMES AREA  
METROPOLITAN PLANNING  
ORGANIZATION**

**SURFACE TRANSPORTATION  
PROGRAM**

**FY 2005 – FY 2007**

May 11, 2004

FEDERAL HIGHWAY  
ADMINISTRATION  
SECTION

# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## FEDERAL FISCAL YEARS 2005-2007 TRANSPORTATION IMPROVEMENT PROGRAM

### NEW PROJECT INFORMATION FORM

Project Sponsor Government: City of Ames

Federal Funding Source:

- Surface Transportation Program
- Highway Bridge Replacement and Rehabilitation Program

Federal Fiscal Year:

- Federal Fiscal Year 2005 (October 1, 2004 – September 30, 2005)
- Federal Fiscal Year 2006 (October 1, 2005 – September 30, 2006)
- Federal Fiscal Year 2007 (October 1, 2006 – September 30, 2007)

Route or Street Name: Area wide

Termini: \_\_\_\_\_

Bridge Number (For Bridge Projects Only): \_\_\_\_\_

Length: \_\_\_\_\_ miles

Type of Work: Statewide Urban Design and Specifications Manual (SUDAS)  
(See back of form for work type descriptions.)

Map (*Please include a map indicating project location.*)

### PROJECT COST INFORMATION

Total Estimated Cost: \$ 4,593

Federal-Aid: \$ 3,674

Local Match: \$ 919

Other: \$ ---

# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## FEDERAL FISCAL YEARS 2005-2007 TRANSPORTATION IMPROVEMENT PROGRAM

### NEW PROJECT INFORMATION FORM

Project Sponsor Government: City of Ames

Federal Funding Source:

- Surface Transportation Program
- Highway Bridge Replacement and Rehabilitation Program

Federal Fiscal Year:

- Federal Fiscal Year 2005 (October 1, 2004 – September 30, 2005)
- Federal Fiscal Year 2006 (October 1, 2005 – September 30, 2006)
- Federal Fiscal Year 2007 (October 1, 2006 – September 30, 2007)

Route or Street Name: Area wide

Termini: \_\_\_\_\_

Bridge Number (For Bridge Projects Only): \_\_\_\_\_

Length: \_\_\_\_\_ miles

Type of Work: Pavement Management System

(See back of form for work type descriptions.)

- Map (*Please include a map indicating project location.*)

### PROJECT COST INFORMATION

Total Estimated Cost: \$ 6,500

Federal-Aid: \$ 5,200

Local Match: \$ 1,300

Other: \$ ---

# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## FEDERAL FISCAL YEARS 2005-2007 TRANSPORTATION IMPROVEMENT PROGRAM

### NEW PROJECT INFORMATION FORM

Project Sponsor Government: City of Ames

Federal Funding Source:

- Surface Transportation Program
- Highway Bridge Replacement and Rehabilitation Program

Federal Fiscal Year:

- Federal Fiscal Year 2005 (October 1, 2004 – September 30, 2005)
- Federal Fiscal Year 2006 (October 1, 2005 – September 30, 2006)
- Federal Fiscal Year 2007 (October 1, 2006 – September 30, 2007)

Route or Street Name: Northwestern Avenue

Termini: 13<sup>th</sup> Street to 20<sup>th</sup> Street

Bridge Number (For Bridge Projects Only): \_\_\_\_\_

Length: 0.50 miles

Type of Work: Pavement Rehabilitation

(See back of form for work type descriptions.)

- Map (*Please include a map indicating project location.*)

### PROJECT COST INFORMATION

Total Estimated Cost: \$ 900,000

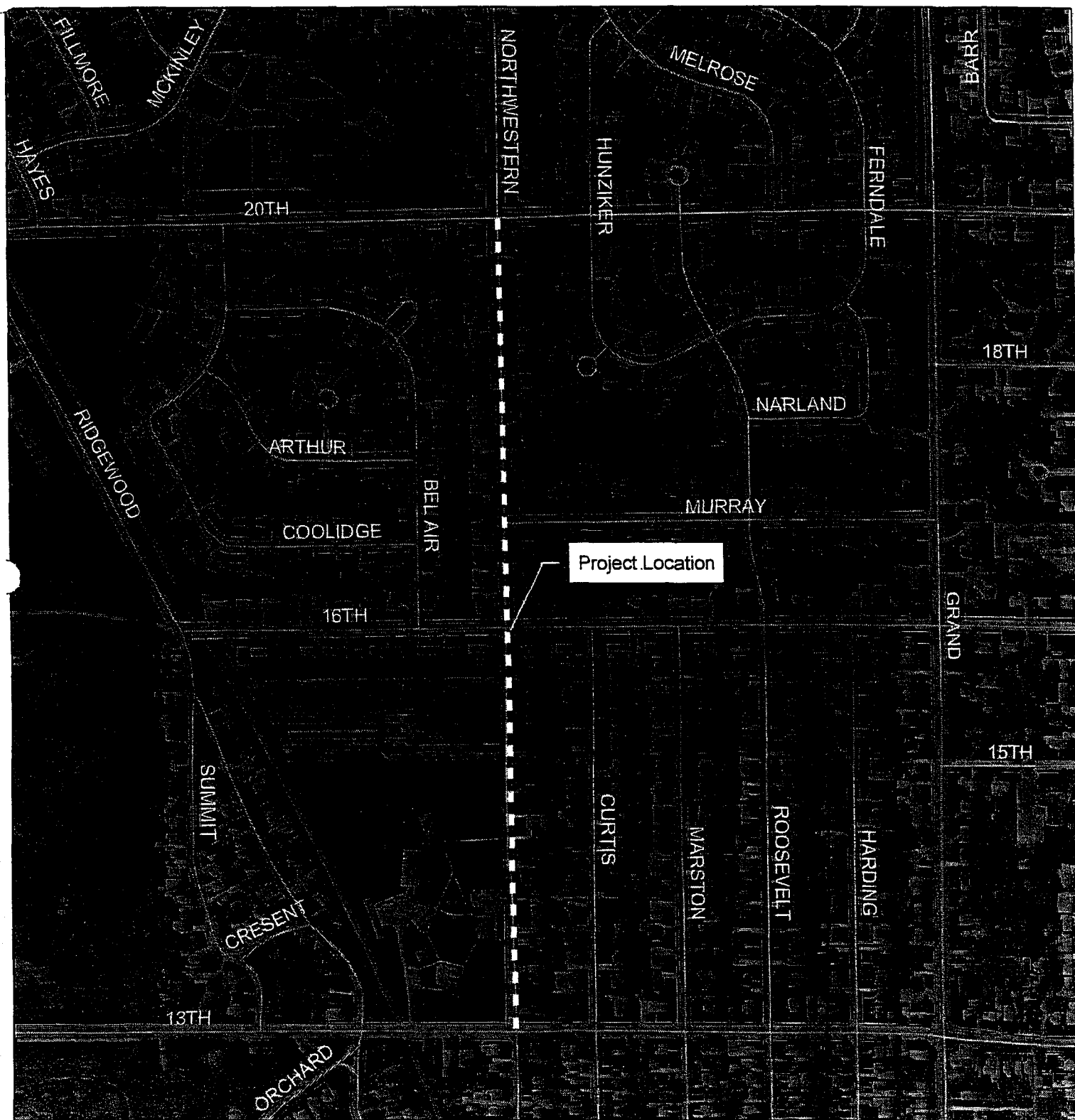
Federal-Aid: \$ 720,000

Local Match: \$ 180,000

Other: \$ ---

# Ames MPO Project Map

## Northwestern Avenue



# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## FEDERAL FISCAL YEARS 2004-2006 TRANSPORTATION IMPROVEMENT PROGRAM

### NEW PROJECT INFORMATION FORM

Project Sponsor Government: City of Ames

Federal Funding Source:

- Surface Transportation Program
- Highway Bridge Replacement and Rehabilitation Program

Federal Fiscal Year:

- Federal Fiscal Year 2004 (October 1, 2003 – September 30, 2004)
- Federal Fiscal Year 2005 (October 1, 2004 – September 30, 2005)
- Federal Fiscal Year 2006 (October 1, 2005 – September 30, 2006)

Route or Street Name: Northwestern Avenue

Termini: 6<sup>th</sup> Street to 13<sup>th</sup> Street

Bridge Number (For Bridge Projects Only): \_\_\_\_\_

Length: 0.57 miles

Type of Work: Pavement Rehabilitation

(See back of form for work type descriptions.)

- Map (*Please include a map indicating project location.*)

### PROJECT COST INFORMATION

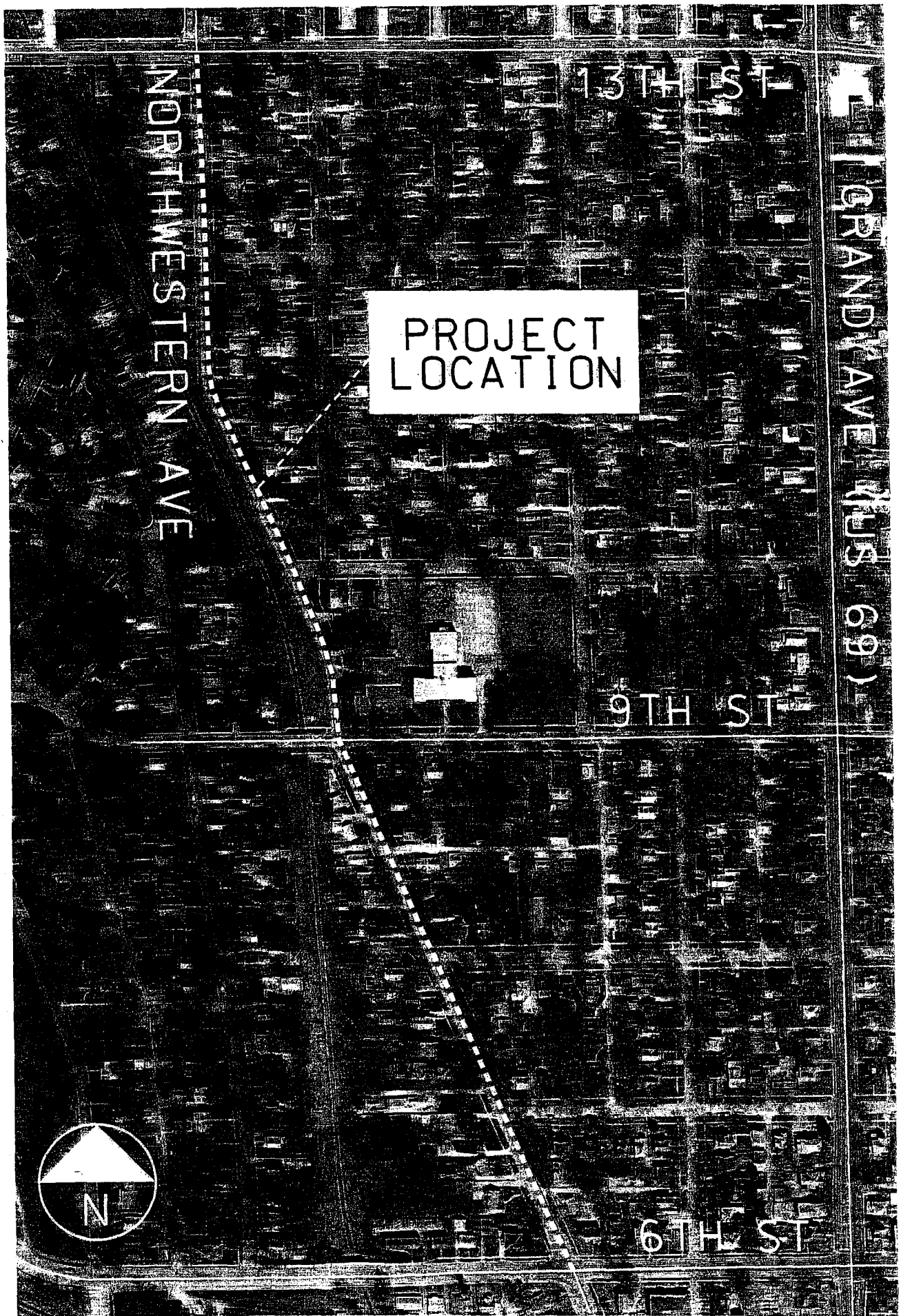
Total Estimated Cost: \$ 800,000

Federal-Aid: \$ 640,000

Local Match: \$ 160,000

Other: \$ --

# AMES PROJECT MAP - NORTHWESTERN AVENUE



PROJECT  
LOCATION

NORTHWESTERN AVE

13TH ST

GRAND AVE (US 69)

9TH ST

6TH ST





# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## FEDERAL FISCAL YEARS 2005-2007 TRANSPORTATION IMPROVEMENT PROGRAM

### NEW PROJECT INFORMATION FORM

Project Sponsor Government: City of Ames

Federal Funding Source:

- Surface Transportation Program
- Highway Bridge Replacement and Rehabilitation Program

Federal Fiscal Year:

- Federal Fiscal Year 2005 (October 1, 2004 – September 30, 2005)
- Federal Fiscal Year 2006 (October 1, 2005 – September 30, 2006)
- Federal Fiscal Year 2007 (October 1, 2006 – September 30, 2007)

Route or Street Name: Beach Avenue

Termini: Lincoln Way to Mortensen Parkway

Bridge Number (For Bridge Projects Only): \_\_\_\_\_

Length: 1.1 miles

Type of Work: Pavement Rehabilitation  
(See back of form for work type descriptions.)

- Map (*Please include a map indicating project location.*)

### PROJECT COST INFORMATION

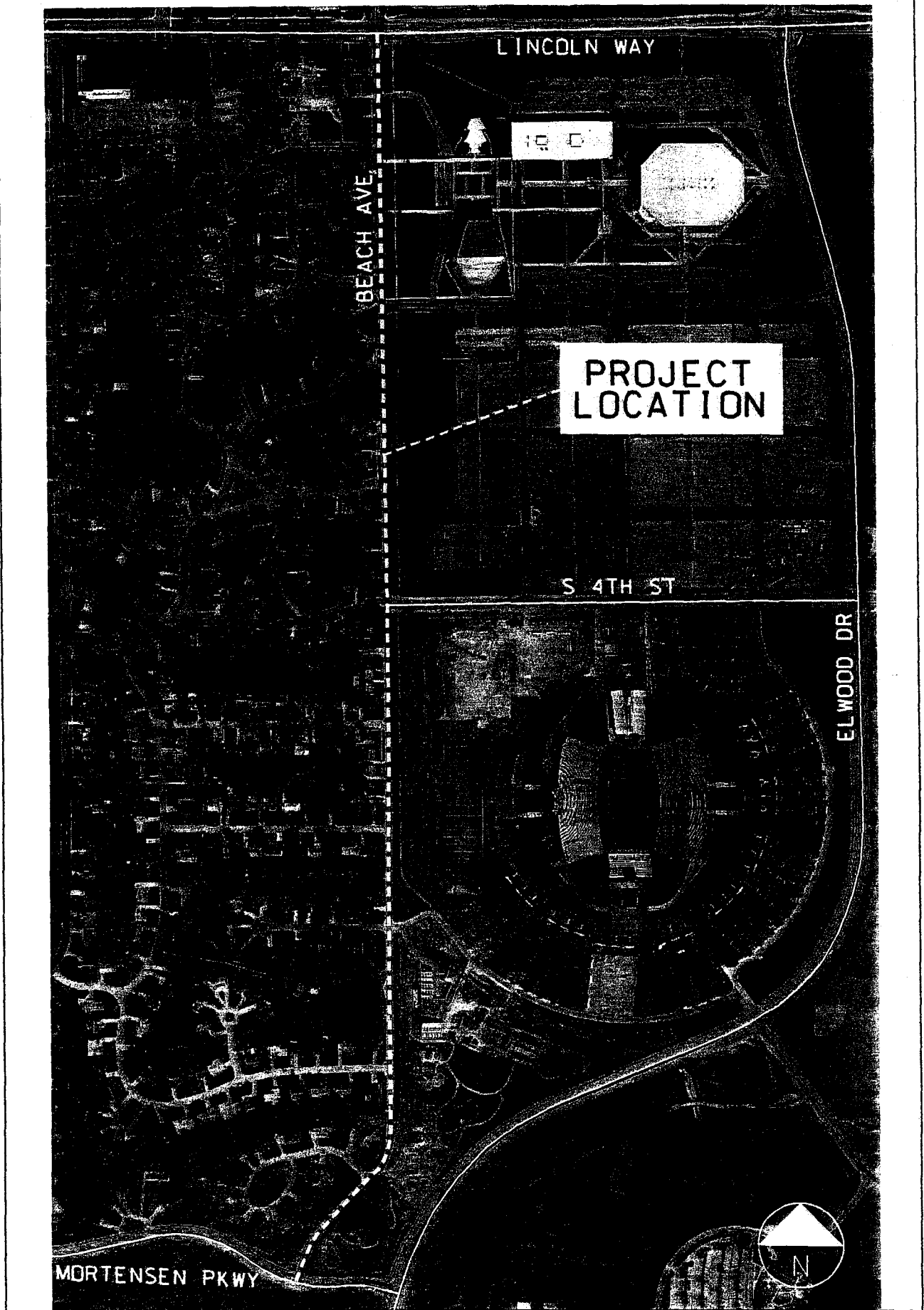
Total Estimated Cost: \$ 1,600,000

Federal-Aid: \$ 800,000

Local Match: \$ 800,000

Other: \$ ---

# AMES PROJECT MAP - BEACH AVENUE



# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## FEDERAL FISCAL YEARS 2005-2007 TRANSPORTATION IMPROVEMENT PROGRAM

### NEW PROJECT INFORMATION FORM

Project Sponsor Government: City of Ames (Enhancement)

Federal Funding Source:

- Surface Transportation Program
- Highway Bridge Replacement and Rehabilitation Program

Federal Fiscal Year:

- Federal Fiscal Year 2005 (October 1, 2004 – September 30, 2005)
- Federal Fiscal Year 2006 (October 1, 2005 – September 30, 2006)
- Federal Fiscal Year 2007 (October 1, 2006 – September 30, 2007)

Route or Street Name: Skunk River Recreation Trail

Termini: Inis Grove Park to Bloomington Road

Bridge Number (For Bridge Projects Only): \_\_\_\_\_

Length: 0.66 miles

Type of Work: Pedestrian/Bike Trail paving  
(See back of form for work type descriptions.)

- Map (*Please include a map indicating project location.*)

### PROJECT COST INFORMATION

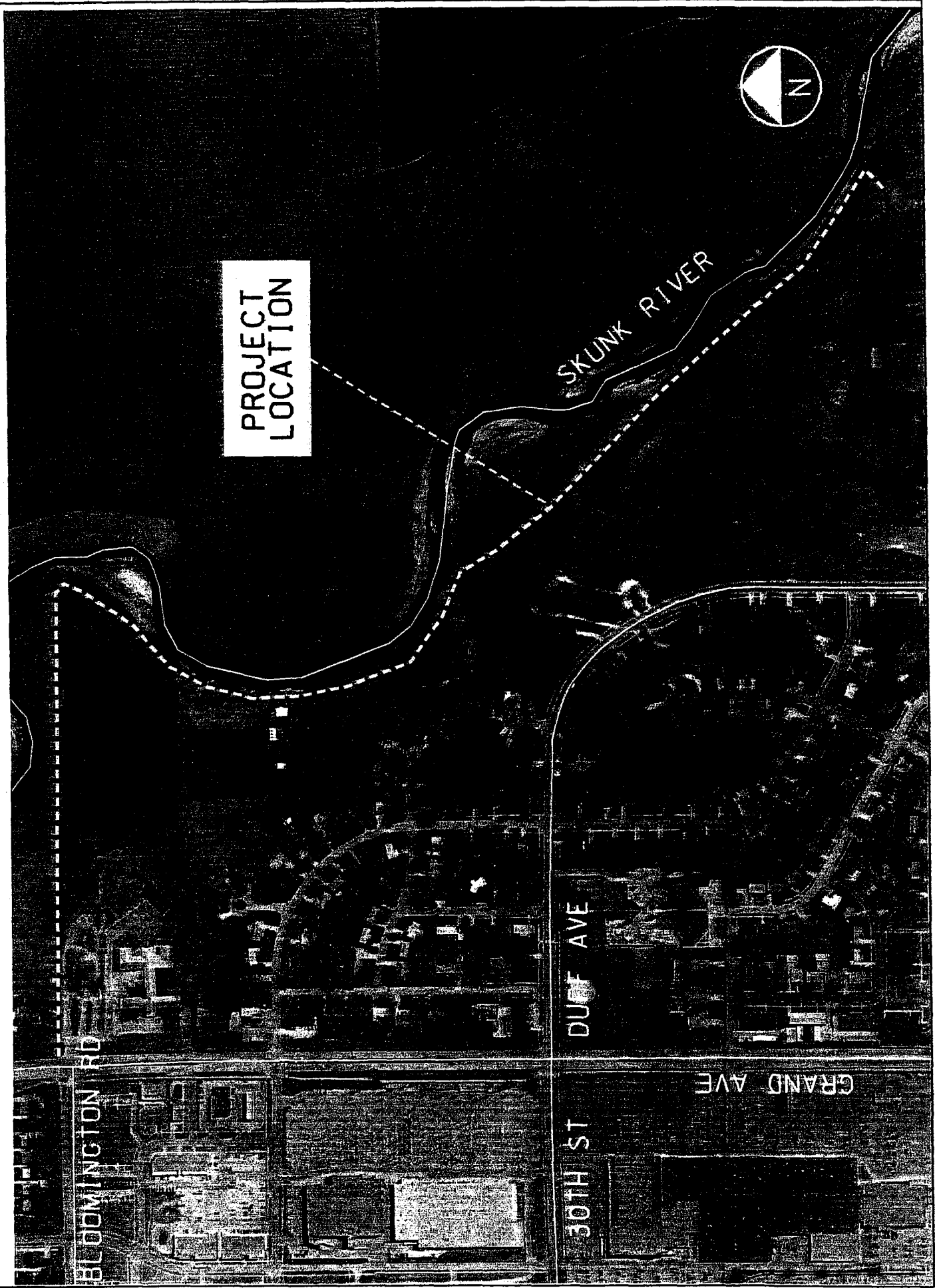
Total Estimated Cost: \$ 80,000

Federal-Aid: \$ 64,000

Local Match: \$ 16,000

Other: \$ ---

AMES PROJECT MAP - INIS GROVE PARK TO BLOOMINGTON ROAD



BLOOMINGTON RD

30TH ST

DUFF AVE

GRAND AVE

SKUNK RIVER

PROJECT  
LOCATION



# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## FEDERAL FISCAL YEARS 2005-2007 TRANSPORTATION IMPROVEMENT PROGRAM

### NEW PROJECT INFORMATION FORM

Project Sponsor Government: City of Ames (Enhancement)

Federal Funding Source:

- Surface Transportation Program
- Highway Bridge Replacement and Rehabilitation Program

Federal Fiscal Year:

- Federal Fiscal Year 2005 (October 1, 2004 – September 30, 2005)
- Federal Fiscal Year 2006 (October 1, 2005 – September 30, 2006)
- Federal Fiscal Year 2007 (October 1, 2006 – September 30, 2007)

Route or Street Name: Skunk River Trail

Termini: Carr Pool to 13<sup>th</sup> Street

Bridge Number (For Bridge Projects Only): \_\_\_\_\_

Length: 0.38 miles

Type of Work: Pedestrian/Bike Trail paving  
(See back of form for work type descriptions.)

- Map (*Please include a map indicating project location.*)

### PROJECT COST INFORMATION

Total Estimated Cost: \$ 80,000

Federal-Aid: \$ 64,000

Local Match: \$ 16,000

Other: \$ ---

AMES PROJECT MAP - CARR POOL TO E 13TH STREET



PROJECT  
LOCATION

SKUNK RIVER

STAGECOACH RD

MEADOWLANE AVE

E 13TH ST

# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## FEDERAL FISCAL YEARS 2005-2007 TRANSPORTATION IMPROVEMENT PROGRAM

### NEW PROJECT INFORMATION FORM

Project Sponsor Government: City of Ames (Enhancement)

Federal Funding Source:

- Surface Transportation Program
- Highway Bridge Replacement and Rehabilitation Program

Federal Fiscal Year:

- Federal Fiscal Year 2005 (October 1, 2004 – September 30, 2005)
- Federal Fiscal Year 2006 (October 1, 2005 – September 30, 2006)
- Federal Fiscal Year 2007 (October 1, 2006 – September 30, 2007)

Route or Street Name: State Avenue

Termini: Mortensen Road north 1,320 feet

Bridge Number (For Bridge Projects Only): \_\_\_\_\_

Length: 0.25 miles

Type of Work: Pedestrian/Bike Trail paving  
(See back of form for work type descriptions.)

- Map (*Please include a map indicating project location.*)

### PROJECT COST INFORMATION

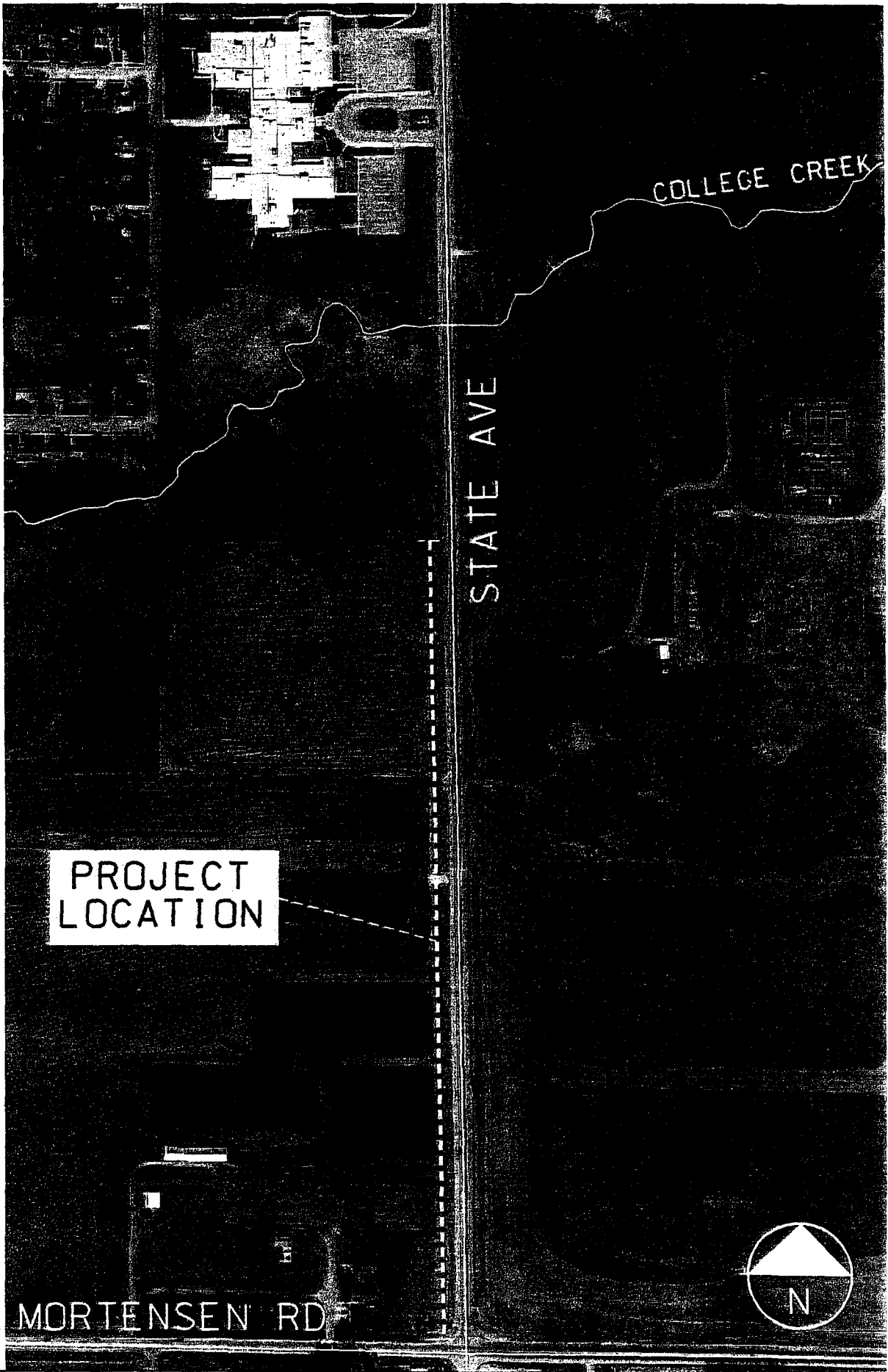
Total Estimated Cost: \$ 75,000

Federal-Aid: \$ 60,000

Local Match: \$ 15,000

Other: \$ ---

# AMES PROJECT MAP - STATE AVENUE





## AMES AREA METROPOLITAN PLANNING ORGANIZATION

Surface Transportation Program				Total Cost x 100			Federal Participation x 100		
Location	Termini	Sponsor	Type of Work	2005	2006	2007	2005	2006	2007
Areawide	--	City of Ames	Urban Standard Specifications	46	46	46	37	37	37
Areawide	--	City of Ames	Pavement Management	65	65	65	52	52	52
Northwestern	13 <sup>th</sup> Street to 20 <sup>th</sup> Street	City of Ames	Pavement Rehabilitation	9,000			7,200		
Northwestern	6 <sup>th</sup> Street to 13 <sup>th</sup> Street	City of Ames	Pavement Rehabilitation		8,000			6400	
Beach Avenue	Lincoln Way to Mortensen Pkwy	City of Ames	Pavement Rehabilitation						
						16,000			8,000

Enhancements				Total Cost x 100			Federal Participation x 100		
Location	Termini	Sponsor	Type of Work	2005	2006	2007	2005	2006	2007
Skunk River Trail	Inis Grove Park to Bloomington Road	City of Ames	Ped/bike trail	800					
Skunk River Trail	Carr Pool to East 13 <sup>th</sup> Street	City of Ames	Ped/bike trail		800			640	
State Avenue	Mortensen north 1320 feet	City of Ames	Ped/bike trail			750			600

FEDERAL TRANSIT  
ADMINISTRATION  
SECTION

PLANNING AGENCY: Ames Metropolitan Planning Organization  
 Transportation Improvement Program: Cy-Ride  
 Transit Element Projects

Jan. 19, 2004

Fund Type	System	Project Description	Vehicle Identification or Remarks	Type Exp	Type Project	Total Cost			Federal Participation				2005 STA	
						2005	2006	2007	2005	2006	2007	2005		
5307	CyRide	General Operations		O		5,250,000	5,408,000	5,570,000	655,000	678,000	698,000	655,000	678,000	698,000
5307	CyRide	Associated Capital Maintenance		C		92,000	100,000	110,000	73,600	80,000	88,000	73,600	80,000	88,000
5309	CyRide	East 13th Regional Commercial/Industrial Area		O			600,000	700,000		300,000	350,000		300,000	350,000
5309	CyRide	Replacement Buses												
5309	CyRide	Heavy Duty Bus Replacement	916,918,919,920,921, 922, 926 927, 928, 951, 962, 964, 965, 966	C	Rep	4,800,000			3,984,000			3,984,000		
5309	CyRide	Minibus Replacement	938, 939, 949	C	Rep	200,000			168,000			168,000		
5309	CyRide	Minivan Replacement	960,961	C	Rep		140,000			116,200			116,200	
5309	CyRide	Heavy Duty Bus Replacement	968 933,934	C	Rep		40,000	640,000		33,200			33,200	531,200
5309	CyRide	Expansion Buses												
5309	CyRide	Four buses - #23 Orange route	40' low floor	C	Exp	1,200,000			996,000			996,000		
5309	CyRide	One bus #22 Gold route	35' low floor	C	Exp	280,000			232,400			232,400		
5309	CyRide	Six buses - New East Ames routes	40' low floor	C	Exp	1,800,000			1,494,000			1,494,000		
5309	CyRide	One 40' Coach for DM Airport		C	Exp		350,000	260,000		290,500			290,500	215,800
5309	CyRide	One trolley replica bus		C	Exp									
5309	CyRide	Garage Rehab and Expansion												
5309	CyRide	Garage Rehab and Expansion Phase II		C	Exp/Reh	2,500,000			2,000,000			2,000,000		
5309	CyRide	Remodel and expand office		C	Rep	120,000			96,000			96,000		
5309	CyRide	Steam clean area; hoist and floor repair		C	Rep	86,000			68,800			68,800		
5309	CyRide	Bus interior vacuum system		C	Rep	30,000			24,000			24,000		
5309	CyRide	Garage Floor Sweeper		C	Exp	20,000			16,000			16,000		
5309	CyRide	Shop Energy Management Study		C	Rep	12,000			9,600			9,600		
5309	CyRide	Shop Tire Storage Area		C	Rep	12,000			9,600			9,600		
5309	CyRide	Shop parts shelves and storage		C	Rep	10,000			8,000			8,000		
5309	CyRide	Clerestory Repair		C	Rep	60,000	60,000	60,000	48,000	48,000	48,000	48,000	48,000	48,000
5309	CyRide	Replace Shop Hoists		C	Rep	30,000	30,000	30,000	24,000	24,000	24,000	24,000	24,000	24,000
5309	CyRide	Storage area repaint		C	Reh	20,000	40,000	40,000	16,000	32,000	32,000	16,000	32,000	32,000
5309	CyRide	Shop area complete repaint		C	Reh	7,000			5,600			5,600		
5309	CyRide	Tire Changer		C	Rep									
5309	CyRide	1989 roof replacement		C	Reh		50,000	50,000		40,000		40,000	40,000	40,000
5309	CyRide	Garage Floor Scrubber		C	Rep		30,000	30,000		24,000		24,000	24,000	24,000
5309	CyRide	Main Supv Office remodel and expand		C	Reh		25,000	25,000		20,000		20,000	20,000	20,000
5309	CyRide	Boilers replacement		C	Rep		20,000	20,000		16,000		16,000	16,000	16,000
5309	CyRide	Garage Rehab and Expansion Phase III		C	Exp/Reh		50,000	5,000,000		40,000		4,000,000	40,000	4,000,000
5309	CyRide	Master Plan revision and construction		C	Rep			150,000				120,000		120,000
5309	CyRide	Storage area air handling replacement		C	Rep			50,000				40,000		40,000
5309	CyRide	Shop AC Replacement		C	Exp			15,000				12,000		12,000
5309	CyRide	Portable Lift for Building Maintenance		C	Exp									
5309	CyRide	Security		C	Exp									
5309	CyRide	Vehicle Security System Retrofit	15 buses	C	Exp	90,000	40,000		72,000	32,000		72,000	32,000	
5309	CyRide	Building Exterior Security System		C	Exp									
5309	CyRide	Intermodal Facilities		C	Reh									
5309	CyRide	Resurface ISC Commuter Parking		C	Exp	300,000	15,625,000		216,000	12,500,000		216,000	12,500,000	
5309	CyRide	ISU North Intermodal Facility		C	Exp				0			0		

02/26/2004

5309	CyRide	Administration and Support												
5309	CyRide	Stange Rd/Univ Village traffic control			180,000	Exp						144,000		
5309	CyRide	Shop Truck	C	Exp	55,000							44,000		
5309	CyRide	Shop technology study	C	Exp	20,000							16,000		
5309	CyRide	Replace Office Copier City			8,000							6,400		
5309	CyRide	Training AV equipment			5,000							4,000		
5309	CyRide	Payroll Software			3,500							2,800		
5309	CyRide	Elec. Dest Sign Retrofit			90,000			80,000				72,000	64,000	
5309	CyRide	Computer Replacement	C	Rep	12,500			8,000				10,000	6,400	
5309	CyRide	Solar bus stop lights	C	Exp	7,500			7,500				6,000	6,000	
5309	CyRide	Hybrid Gas/Electric Administrative Car	C	Exp				30,000				24,000		
5309	CyRide	AVL study, hardware, software	C	Exp				50,000	1,000,000			40,000	800,000	
5309	CyRide	Bus Shelters	C	Exp				20,000	20,000			16,000	120,000	
5309	CyRide	Driving Simulator	C	Exp					150,000				120,000	
5309	CyRide	Run Cutting Software							50,000				40,000	
					Total	17,300,500		22,803,500	13,870,500	10,522,800	14,430,300	7,155,400		
					Capital	12,050,500		17,395,500	8,300,500	9,864,800	13,752,300	6,457,400		

Total Capital 17,300,500 12,050,500 22,803,500 13,870,500 10,522,800 14,430,300 7,155,400

# AMES AREA METROPOLITAN PLANNING ORGANIZATION

## 2005-07 TRANSPORTATION IMPROVEMENT PROGRAM

### SUPPLEMENTAL INFORMATION

#### **Project Selection**

The AAMPO Policy Committee adopted a project rating criteria system as a means of ranking submitted projects. The City of Ames was the only agency to submit any projects. Four projects were submitted and rated. The highest-ranking projects were then presented to the Technical Committee for review and recommendation. A recommendation was then passed on to the Policy Committee for action. Enhancement projects consist of open space trails that have been approved by the bike users and the Parks and Recreation Commission.

Transit projects from CyRide have been approved by their Board.

#### **Status of Previously Approved Projects**

The Federal Fiscal Year 2004 project, as approved in the 2004-2006 TIP, is the rehabilitation of Mortensen Parkway from Elwood Drive to Gateway Hills Park Drive. That project has been designed and is scheduled for the April 2004 DOT letting. Construction is expected to be completed by August 15, 2004.

The enhancement project is the trail bridge over the Skunk River along East Lincoln Way. Design is being initiated at this time with likely construction in 2005.

#### **Fiscal Constraint**

The AAMPO programming target is \$926,642 for the Highway element and \$76,000 for enhancements. As noted in the TIP, the required Federal funds total \$728,900 in 2005, \$648,900 in 2006, and \$808,900 in 2007. Likewise, the Enhancement requests are \$64,000 in 2005, \$64,000 in 2006, and \$60,000 in 2007.

The Transit program does not have targets and thus the requests involve significant costs in the anticipation of maximizing the amounts received.

#### **Public Participation Process**

A notice advising the public about the draft TIP and TPWP review by the AAMPO Technical Committee was mailed to 43 neighborhood organization chairpersons, representatives of the Ames Main Street District, Campustown Action Association,

NAACP, Friends of Central Iowa Biking, International Student Council at ISU, and others in accordance with our approved Public Participation Plan.

To date no public comments or questions have been received.

### **Self Certification**

Because the Ames Area MPO is a new agency, the self certification process has not been completed. It is scheduled for 2004.

## FY 2005 TIP Project Justification

### **Vehicle Replacement and Expansion:**

Heavy Duty Bus Replacement: All listed buses have exceeded FTA guidelines for design life. Bus numbers: 916, 918, 919, 920, 921, 922, 926, 927, 928, 951, 962, 964, 965, 966, 980, 981

Minibus Replacement: All listed buses have exceeded FTA guidelines for design life. Bus numbers: 938, 960, 961

Expansion Buses: Four 40' low floor buses are needed to expand service on the #23 Orange route. Buses will operate at more frequent intervals.

One 35 foot low floor bus is needed for the #22 Gold route. Buses will operate at 10 minute intervals instead of the current 20 minute intervals to meet increased peak period demand.

Six 40' low floor buses are needed for East Ames service. Service will be provided on East Lincoln Way, North Dayton, and East 13<sup>th</sup> St. to the new 13 St. Mall.

Garage Rehabilitation and Expansion: Expand and remodel current office area. A feasibility study was completed in November 2001 that provided for a three Phase expansion and modernization of the CyRide maintenance and office facility. The first phase was completed in December 2003.

A&E services are underway for part of the second phase which is construction of a fourteen bus storage area on the south side of the current building. Construction is expected to be completed by August 2005. The second part of the second phase will be remodeling and expansion of the current office area. Discretionary earmark funds are being sought for this project.

Steam Clean Area Repair: The hoist and floor in the steam clean area are deteriorating. The hoist is 20 years old and is leaking fluid. The concrete floor has significant structural failure with large lateral and angular cracking. The steam clean area is a multi-purpose area with high vehicular traffic moving from the bus washer to

the storage area. Continued usage of the steam cleaning function may be compromised without repair to the hoist and correction of floor deficiencies.

Bus Interior Vacuum System: Funding for the new service lane was not adequate to include a high power vacuum system to clean the floors of buses each night. Adequate space was allocated for an interior cleaning system. A stand alone high power, high capacity system can be installed in the service lane and is needed to reduce the amount of time laneworkers spend each night sweeping buses.

Garage Floor Sweeper: The new service lane and storage area that were completed in December, 2003 and the new 9,000 square foot storage area that will be constructed in FY 05 will required periodic floor cleaning. The current sweeper is 20 years old and was purchased for a 25,000 square foot building. At completion, there will be over 51,000 square feet of building for bus storage and maintenance that will need to be cleaned. A larger model sweeper is needed to replace the old sweeper.

Shop Energy Management Study: The current maintenance facility has been constructed in three separate contracts over 20 years. The new storage area will be a fourth contract and the office remodeling/expansion will be a fifth contract. Each contract has used a separate, independent heating and ventilating system. Modern control systems are needed to minimize energy usage and to coordinate heat and ventilation between the independent systems.

Shop Tire Storage Area: The current tire storage and repair area will be moved with the construction of the south bus storage area. Existing equipment and storage racks will be moved to a new location within the building. Expansion of the CyRide fleet in the near future will require more buses, which will require additional tire storage. New tire storage racks are needed.

Shop Parts Shelves and Storage: Recent expansion of the CyRide fleet with additional buses and increased total mileage combined with anticipated growth will require additional shelving and storage of bus parts for the larger fleet. The current storage area was designed for a 38 bus fleet and there are now 63 buses in the fleet. Parts are stacked on top of each other due to lack of space. Usage of bus parts will increase with the increased mileage and increases in fleet size.

Clerestory Repair: The clerestory windows provide natural light to the shop area. The clerestory is 20 years old and needs renewal. Water leaks are developing due to gasket failures and deterioration of the plastic clerestory. Complete replacement of the clerestory windows is necessary.

Shop Hoists: Shop hoists continue to leak fluid into the hoist pit, which must be cleaned periodically. The shop hoists are 20 years old and have developed seal leaks as well as pitting on the posts from usage. If the hoist pits develop cracks, fluid will leak into the ground under the building and could create an environmental hazard.

Storage Area Repaint: The bus storage area and maintenance area are divided into four areas. The original building storage area has not been repainted since 1991 and is scheduled for repaint.

Shop Area Repaint: The floors in the shop area have not been repainted since 1990. Paint has peeled in several areas creating a poor workplace appearance. A lighter color floor paint will also brighten the workplace creating brighter and safer conditions.

Tire Changer: The tire changer is 20 years old, is worn out, and needs replacement. The machine sometimes damages tire beads, which makes the casings unusable for recapping.

Security: Camera systems are needed on 15 additional buses to complete the project started last year.

### **Intermodal Facilities:**

Resurface ISC Commuter Facility: A study is being completed by ISU regarding parking areas and the bus queuing area at the Iowa State Center Park and Ride facility. Usage of the facility by commuters has increased beyond the area that was rehabbed in 1999. The pavement has deteriorated in these growth areas and requires rehabilitation. A bus queuing area in Lot D-3 has been created due to increased ridership and the need for additional buses to meet demand. This area also needs replacement.

### **Administration and Support:**

Stange Road Traffic Control: A traffic control device is needed for buses exiting from University Village to Stange Road. Due to the continuous right turn at 24<sup>th</sup>/Stange, there often are no gaps in southbound traffic. Delays are unpredictable ranging from a few seconds to seven minutes. A predictable schedule cannot be written for passengers with wide variations in travel time. Bus drivers may force their way into southbound traffic to stay on schedule requiring automotive drivers to slow down in the high-speed portion of Stange Road.

Shop Truck: The shop maintenance truck is a 1984 GMC one ton truck. The body is deteriorating and the mechanical components are failing.

Shop Technology Study: The CyRide maintenance function uses only rudimentary computer functions. New technology can provide mechanics with instant information regarding bus repairs as well as diagnostic assistance. CyRide's inventory system is a manual system that is prone to errors and lost inventory. There is a wide variety of hardware, software, and support available. An independent consultant is needed to evaluate the current and future technology needs of the maintenance function.

Office Copier: The current office copier was purchased in 1999 and has exceeded its design life.



Training AV Equipment: New software and technology is available to make short training videos. A camera, software, and computer is needed for the CyRide instructors to make these videos.

Payroll Software: The current software is cumbersome and is not well designed for the increased number of hourly employees that CyRide employs due to recent expansion and anticipated future expansion.

Electronic Destination Signs: CyRide has recently changed several routes to accommodate changes in land use and ridership patterns. Accurate destination signs are needed to adequately inform our passengers of the correct destination of each bus. The current system of mylar signs requires an insert for each sign change and it takes up to two hours to install the inserts in each bus. Additional route changes are expected in the future. Electronic destination signs can be reprogrammed in a few minutes and updated at schedule preventive maintenance inspections. Brighter colors and larger readings also make these signs easier to read for people with visual impairments.

Computer Replacement: CyRide has a computer replacement schedule that replaces a few computers each year. Computers are at least four years old before they are replaced.

Solar Bus Stop Lights: Two solar powered bus shelter lights have been installed. They provide a sense of security for passengers and assist drivers in seeing passengers at night. Five additional lights will be purchased.

ADA Compliance: Replacement buses will be accessible and are part of the CyRide ADA plan. CyRide is in compliance with ADA regulations and the other elements of the TIP are not related to ADA implementation.