

**City of Ann Arbor, Michigan  
FY2008-2013 Capital Improvements Plan**

**Transportation - Bridges**

# Bridges

*The rehabilitation or reconstruction of bridges that carry vehicles or new bridge development*

---

## **CAPITAL PROGRAM SUMMARY**

The Public Services Area is responsible for 14 bridges in the City's transportation system. The Capital Improvements Plan provides for major rehabilitation of these structures and for new bridge construction where justified by planned development. The benefits of this bridge program are reduced maintenance costs, improved safety and improved traffic flow.

## **NEEDS ASSESSMENT AND EVALUATION**

In accordance with Federal law, all bridges in the City are inspected at least once every two years, and the Public Services Area rates their physical condition. The City's inspection program reviews one-half of the bridges every year. The need for rehabilitation or reconstruction of a structure is based on these condition ratings, along with the measures of traffic volume, accident rates, and coordination with other improvements in the area. Structures in greatest need of improvement are given highest priority and are programmed against available funds.

## **PROJECT SELECTION CRITERIA**

- Structural conditions ratings (AASHTO Compliance, MDOT P2502 and Q1717A Forms)
- Traffic volumes (number of cars and trucks)
- Coordination with other improvements in the area (roads, sewer and water)
- Weight restriction (posted tons)
- FY2006-2008 Transportation Improvement Plan for Washtenaw County (2006)

## TABLE OF CONTENTS FOR PROJECT SHEETS

<b><u>Project Name</u></b>	<b><u>Project ID</u></b>	<b><u>Page Number</u></b>
Annual Bridge Maintenance Program	TR-BR-08-01	218
East Stadium Bridge Replacement (over AARR)	TR-BR-02-03	219
East Stadium Bridge Replacement (over South State Street)	TR-BR-02-04	220
Huron Parkway Bridge Painting	TR-BR-01-06	221

**PROJECT NAME: Annual Bridge Maintenance Program**

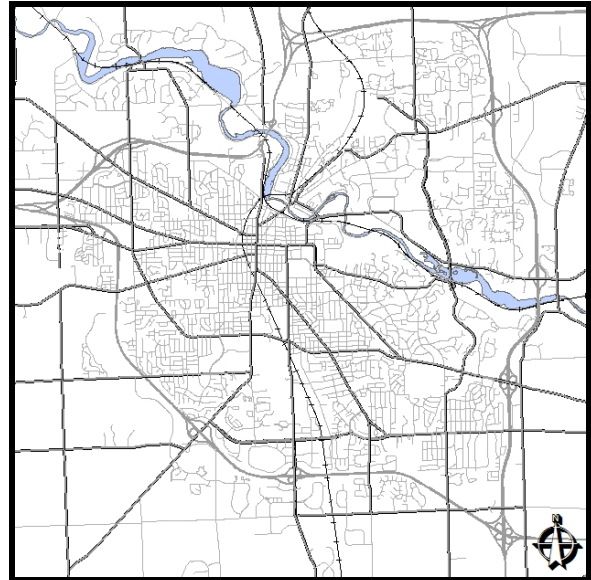
**PROJECT ID:** TR-BR-08-01  
**PROJECT TYPE:** Capital Maintenance  
**SUBMITTED BY:** PUBLIC SERVICES  
 PROJECT MANAGEMENT

**PLANNING AREA:** City-wide  
**PRIORITY:** Important  
**TOTAL COST:** \$140,000  
**YEARS IN CIP:** 0

**DESCRIPTION:**

This project will endeavor to maintain the City of Ann Arbor's existing bridge structures by performing routine and capital preventative maintenance in order to facilitate the City's goal of supporting a safe and reliable municipal infrastructure.

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 2 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 0 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 0 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 0 Reduces energy consumption, impacts on the environment

**8 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

This project will formalize the Public Services Area's on-going attempt to preserve and maintain one of its most important assets by performing routine and capital preventative maintenance activities on a regular basis.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2009	5/31/2011
Construction:	6/1/2010	11/15/2011

**SCHEDULE JUSTIFICATION:**

This work will be performed such that important maintenance activities will be performed on both the roadway and Parks Department bridge structures on an on-going basis. The work will be need based and will vary from year to year.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Total
			FY08	FY09	FY10	FY11	FY12	FY13	Beyond FY13	
2705	OPERATING TRANSFER FROM 0005	\$0	\$0	\$0	\$20	\$20	\$0	\$0	\$0	\$40
2721	OPERATING TRANSFER FROM 0021	\$0	\$0	\$0	\$50	\$50	\$0	\$0	\$0	\$100
		\$0	\$0	\$0	\$70	\$70	\$0	\$0	\$0	\$140

**PROJECT NAME: East Stadium Bridge Replacement (over AARR)**

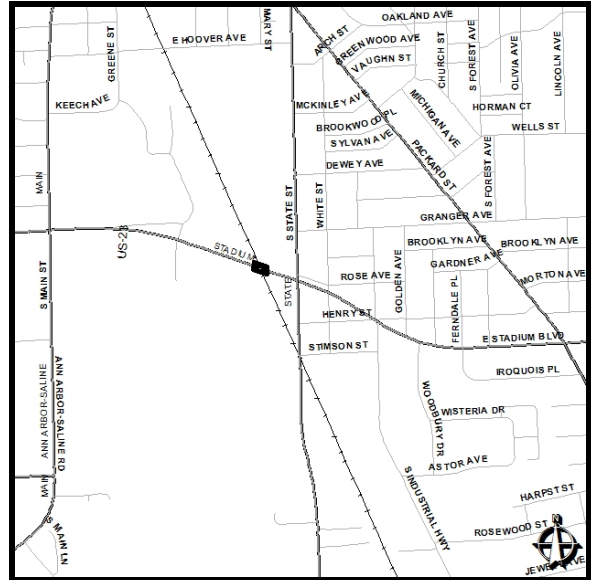
**PROJECT ID:** TR-BR-02-03  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** South  
**PRIORITY:** Important  
**TOTAL COST:** \$12,850,000  
**YEARS IN CIP:** 6

**DESCRIPTION:**

Replacement of the deteriorating East Stadium bridge over the Ann Arbor Railroad. Currently, it is believed that this project will improve the pedestrian facilities within the area, as well as incorporate on-street bikelanes.

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 4 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 1 Reduces energy consumption, impacts on the environment

**16 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

The replacement bridge will meet all applicable state and federal standards. Improvements to pedestrian traffic flow will be achieved. Project corridor aesthetics will be greatly improved.

**MASTER PLAN REFERENCE:** 2025 Long Range Transportation Plan Update for Washtenaw County (2000)

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/19/2006	12/1/2009
Construction:	2/1/2010	12/1/2011

**SCHEDULE JUSTIFICATION:**

This project is included in the 2006-2010 segment of the 2025 Long Range Transportation Plan Update. The project will be a federal-aid project, coordinated with the East Stadium Reconstruction & bridge replacement over S. State requiring lead time.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Total
			FY08	FY09	FY10	FY11	FY12	FY13	Beyond FY13	
6987	CONTRIBUTIONS & MEMORIALS	\$0	\$0	\$655	\$600	\$0	\$0	\$0	\$0	\$1,255
2299	MDOT/OTHER GRANTS	\$0	\$0	\$2,000	\$2,000	\$1,800	\$0	\$0	\$0	\$5,800
2721	OPERATING TRANSFER FROM 0021	\$259	\$0	\$1,100	\$896	\$0	\$0	\$0	\$0	\$2,255
2762	OPERATING TRANSFER FROM 0062	\$202	\$0	\$650	\$650	\$428	\$0	\$0	\$0	\$1,930
2769	OPERATING TRANSFER FROM 0069	\$175	\$0	\$835	\$600	\$0	\$0	\$0	\$0	\$1,610
		\$636	\$0	\$5,240	\$4,746	\$2,228	\$0	\$0	\$0	\$12,850

**PROJECT NAME: East Stadium Bridge Replacement (over South State Street)**

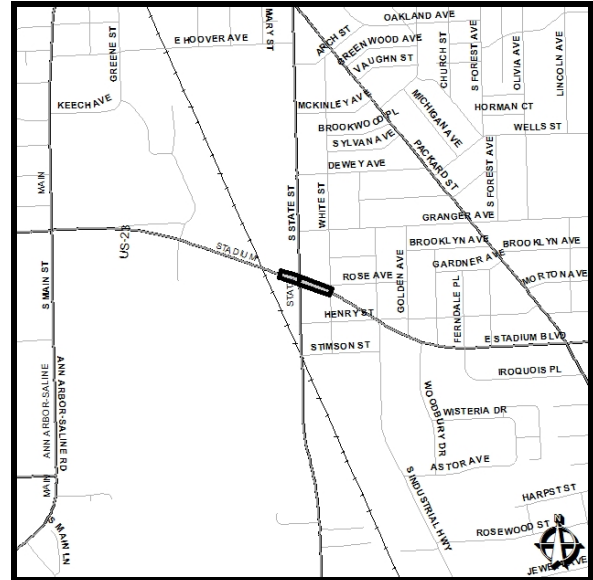
**PROJECT ID:** TR-BR-02-04  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** South  
**PRIORITY:** Important  
**TOTAL COST:** \$9,200,000  
**YEARS IN CIP:** 6

**DESCRIPTION:**

Replacement of the deteriorating East Stadium bridge over South State Street. Currently, it is believed that this project will improve the pedestrian facilities within the area, as well as incorporate on-street bikelanes.

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 4 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 1 Reduces energy consumption, impacts on the environment

**16 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

The replacement bridge will meet all applicable state and federal standards. Improvements to pedestrian traffic flow will be achieved. Project corridor aesthetics will be greatly improved.

**MASTER PLAN REFERENCE:** 2025 Long Range Transportation Plan Update for Washtenaw County (2000)

**STUDY REFERENCE:  
 POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/19/2006	12/1/2009
Construction:	2/1/2010	12/1/2011

**SCHEDULE JUSTIFICATION:**

This project is included in the 2006-2010 segment of the 2025 Long Range Transportation Plan Update. The project will be a federal-aid project, coordinated with the East Stadium Reconstruction & bridge replacement over the AARR requiring lead time.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Total
			FY08	FY09	FY10	FY11	FY12	FY13	Beyond FY13	
6987	CONTRIBUTIONS & MEMORIALS	\$0	\$0	\$515	\$400	\$0	\$0	\$0	\$0	\$915
2296	MDOT/FED PARTICIPATING COSTS	\$0	\$0	\$2,100	\$2,100	\$0	\$0	\$0	\$0	\$4,200
2721	OPERATING TRANSFER FROM 0021	\$250	\$0	\$750	\$595	\$0	\$0	\$0	\$0	\$1,595
2762	OPERATING TRANSFER FROM 0062	\$300	\$0	\$600	\$460	\$0	\$0	\$0	\$0	\$1,360
2769	OPERATING TRANSFER FROM 0069	\$0	\$0	\$650	\$480	\$0	\$0	\$0	\$0	\$1,130
		\$550	\$0	\$4,615	\$4,035	\$0	\$0	\$0	\$0	\$9,200

**PROJECT NAME: Huron Parkway Bridge Painting**

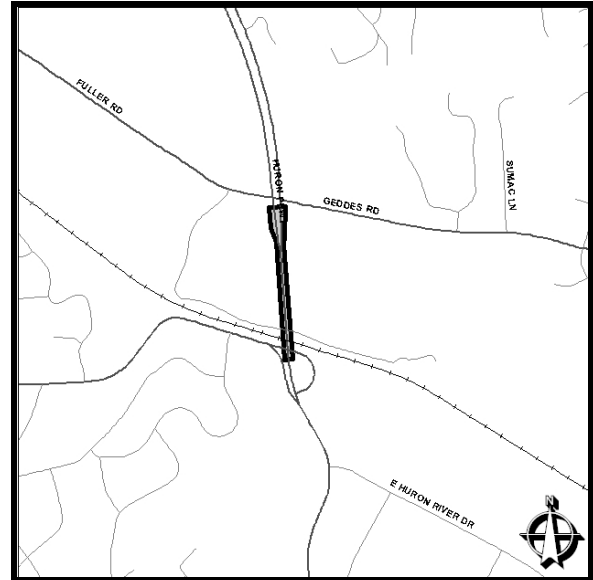
**PROJECT ID:** TR-BR-01-06  
**PROJECT TYPE:** Capital Maintenance  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Important  
**TOTAL COST:** \$2,800,000  
**YEARS IN CIP:** 7

**DESCRIPTION:**

Paint the steel superstructure of the bridge over the Huron River and Norfolk Southern railroad tracks.

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 1 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 1 Enhances social, cultural, recreational or aesthetic opportunities
- 0 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**13 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

If the bridge is painted, it can continue to be used without replacement of the steel superstructure. This will reduce maintenance costs and greatly extend the useful life of the bridge structure.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Bridge Inspection Reports  
**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	10/1/2005	5/1/2007
Construction:	5/1/2007	9/1/2007

**SCHEDULE JUSTIFICATION:**

For a better traffic flow movement, this project is scheduled to begin after completion of the Broadway Bridges project, and when federal funding potentially becomes available.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Total
			FY08	FY09	FY10	FY11	FY12	FY13	Beyond FY13	
2296	MDOT/FED PARTICIPATING COSTS	\$309	\$1,191	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
6998	PRIOR YEAR FUND BALANCE	\$765	\$535	\$0	\$0	\$0	\$0	\$0	\$0	\$1,300
		\$1,074	\$1,726	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800