

Function:
Public Works

Department:
Public Works

Activity:
Engineering Operations

GENERAL INFORMATION

The Engineering division through November of 2007 consisted of a civil engineer and an allocation of a secretarial position. The City's in-house engineering staff had been reduced to that level with outside engineers used for the majority of the larger construction projects. The civil engineer coordinated smaller construction projects and served in a consulting capacity to other departments on special construction projects. The Civil Engineer left employment with the City in November, 2007.

In June of 2008 the City found a qualified candidate for the City Engineer position. This position is funded by engineering charges to the City's various capital improvement projects and Road Use Taxes.

CURRENT TRENDS AND ISSUES

The revised estimate for the Engineering division is \$100 less than the original budget. The budget for 2012/2013 is \$6,100 (4.7%) higher than the 2011/2012 budget primarily due to increased personal services costs (\$2,600) and a capital outlay allocation of \$3,200 for a computer upgrade and software.

Engineering Performance Measures

	FY 2011/2012				FY 2012/2013			
	2011	2011	2012	2012	2012	2012	2013	2013
	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring
Paving Projects								
Harrison Street Extension	Plan	Plan	Design	Design	Construct	Construct	Done	
Cedar Culvert Extensions	Construct	Construct	Done					
Cedar Utilities	Plan	Plan	Design		Construct	Construct	Done	
Cedar Paving	Plan	Plan	Plan	Design	Design	Design	Design	Construct
Cedar Trail	Plan	Plan	Plan	Design	Design	Design	Design	Design
Hershey ave Reconstruction	Construct	Construct		Done				
Colorado Street Reconstruction	Plan	Plan	Plan	Plan	Plan	Construct		Construct
Mulberry & 61 improvements		Plan	Plan	Construct	Construct	Construct	Done	
38/61 Connector	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan
Sewer Projects								
Hershey Phase 2	Construct	Construct	Done					
Mad Creek Sewer Extension	Plan	Plan	Plan	Plan	Construct	Construct	Done	
Heatherlyn Drive	Design	Construct	Done					
West Hill 1	Plan	Plan	Plan	Construct	Construct	Construct	Construct	Construct
West Hill 2	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Construct
Trail Projects								
Weed Park to Wildcat Den Trail	Construct	Construct	Done					
Musser Park to Wiggins Road	Plan	Plan	Design	Design	Design	Design	Design	Construct
Mad Creek - Riverfront to Wash	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan
Musser Park	Construct	Done						
Levee								
Mad Creek 2	Plan	Plan	Construct	Construct	Construct	Construct	Done	
Mad Creek Accreditation	Plan	Plan					Done	
MILD Accreditation	Done							
Subdivision Plans								
North Port Commons	Construct	Done						
Site Plans								
MCC	Construct	Done						
Casey's	Construct	Done						
Muscatine Dermatology Clinic	Construct	Done						
GPC Dryer #5	Review	Construct	Construct	Construct	Construct	Construct		
Stanley Laurel Building		Review	Construct	Construct	Construct			
National Guard Center	Construct	Construct	Done					
Theatre 61/Mulberry		Review		Construct	Construct	Construct		

RECENT ACCOMPLISHMENTS

The Engineering Department continues work on the Cedar Street Reconstruction Project. The culvert extensions have been completed with the next phase being the relocation of utilities. Paving is expected to begin in 2013.

The Weed Park to Wildcat Den Trail has been completed and work continues on the Musser Park to Wiggins Road Trail.

This department prepared a concept plan and cost estimate for the extension of Harrison Street from Park Avenue to Bandag Drive along the south side of the Muscatine Mall. This extension will allow traffic flow from Park Avenue to University Drive when the west half of Colorado is under construction in 2013. It will also allow access to Colorado School from the north side versus Colorado Street.

This department was responsible for the sanitary sewer extension to Parkview Condominiums. This construction satisfied the City's obligations in the pre-annexation agreement which provides for Parkview Condominiums and Irish Ivy to be annexed into the City of Muscatine.

The department was responsible for administering contracts and overseeing the Hershey Avenue reconstruction from Newcomb Boulevard to Clinton Street. It provided guidance for maintenance of the documentation required for a federally funded project.

Accreditation of the Muscatine Island Levee was received. The department is now working toward accreditation of the Mad Creek Levee.

The department developed and administered a system to allow all available city subdivision plats and public construction project plans to be available in PDF format from Public Works. The system allows projects to be searched for by name. Documents are stored in PDF format and can be viewed and emailed.

The department worked with former mayor Bob Bosch before his passing in October 2010 to achieve his desire of using Bosch Trust land along Hershey Avenue to benefit the City of Muscatine. The City Engineer will continue to work with the Bosch Trust attorneys to continue this effort.

OBJECTIVES TO BE ACCOMPLISHED IN 2012/2013

- * To review site plans and provide comments according to City Code and standard engineering practice resulting in orderly development of commercial and institutional projects.
- * To review subdivision plans and provide comments according to City Code and standard engineering practice resulting in safe, reliable and orderly land development infrastructure.
- * To add additional documents to the digital archive system where site plans, subdivisions, plat, easement, and construction documents are digitally stored and accessed through the city's Geographical Information System (GIS).
- * To coordinate with consultants for improvements to the Highway 92 corridor from the Mississippi Bridge south to the US Highway 61 By-pass. (**Management Agenda High Priority**)

- * To construct Cedar Street utilities and storm sewer in 2012 and pavement in 2013. (**Management Agenda High Priority**)
- * To evaluate long-term infrastructure improvements for areas subject to possible annexation. (**City Council Long-Term Goal**)
- * To provide support for various trail projects.
- * To further develop plans and possible funding for enhancements to the donated land at the intersection of Hershey and Houser Street.
- * To work with the consultant for reconstruction of Colorado Street in 2012/2013. (**Management Agenda High Priority**)
- * To design and complete construction of Harrison Street in 2012. (**Management Agenda High Priority**)
- * To continue efforts for the organized development of the Northeast U.S. Highway 61 Corridor.
- * To complete the certification for Mad Creek Levees.
- * To begin Phase I construction of the West Hill Sewer Separation project in 2012 and complete in 2013. (**City Council Policy Agenda High Priority**)
- * To design the Musser Park to Wiggins Trail in 2012 and construct in 2013.
- * To provide support for the Mad Creek Trail and Public Works lower lot reorganization.

Function:
Public Works

Department:
Public Works

Activity:
Engineering Operations

	Actual 2009/2010	Actual 2010/2011	Budget 2011/2012	Revised Estimate 2011/2012	Budget 2012/2013	Percent Change
Expenditure Summary						
Personal Services	\$ 106,056	\$ 110,726	\$ 111,600	\$ 111,200	\$ 114,200	2.33%
Commodities	881	1,236	2,600	2,800	2,600	0.00%
Contractual Services	6,249	12,003	15,500	15,600	15,800	1.94%
Capital Outlay	883	-	-	-	3,200	
Transfers	-	-	-	-	-	
Total Expenditures	\$ 114,069	\$ 123,965	\$ 129,700	\$ 129,600	\$ 135,800	4.70%
Funding Sources						
Engineering Fees	\$ 33,544	\$ 54,103	\$ 40,000	\$ 40,000	\$ 45,000	12.50%
Road Use Tax	80,525	69,862	89,700	89,600	90,800	1.23%
Total Funding Sources	\$ 114,069	\$ 123,965	\$ 129,700	\$ 129,600	\$ 135,800	4.70%

Personnel Schedule						
	Actual 2009/2010	Actual 2010/2011	Budget 2011/2012	Revised Estimate 2011/2012	Budget 2012/2013	Budget Amount 2012/2013
Full Time Positions:						
City Engineer	1.00	1.00	1.00	1.00	1.00	\$ 84,600
Employee Benefits						29,600
Total Personal Services						\$ 114,200

Capital Outlay			
<i>Item</i>	<i>Quantity</i>	<i>Replacement</i>	<i>Amount</i>
Computer Upgrade and Software	1	Yes	\$ 3,200