



**AGENDA
CITY OF HARRISONVILLE
PUBLIC WORKS COMMITTEE
REGULAR MEETING
CITY HALL
JUNE 6, 2013
6:00 PM**

- I. Call to Order**
 - 1. Roll Call**
- II. Approval of Minutes**
 - 1. May 2, 2013 Minutes**
- III. Agenda Items**
 - 1. 2013 Asphalt Overlay and Micro-Seal Program**
- IV. Public Works Project Updates**
 - 1. Public Works Monthly Update**
- V. Airport Reports**
 - 1. June Airport Report**
- VI. General Discussion**
- VII. Adjourn**

Posted on City Hall Bulletin Board this day of

Kim Hubbard, City Clerk

The Board of Aldermen meeting is an open meeting but is not a meeting of the public. There is a place on the agenda for comments of citizens under PUBLIC PARTICIPATION. Our rule is that comments by any individual or group shall not exceed (4) minutes. The Board of Aldermen request that concerns be initially addressed at the appropriate action level before coming to the Board of Alderman



TO: Public Works Committee
FROM: Kim Hubbard, City Clerk
DATE: May 30, 2013
SUBJECT: May 2, 2013 Minutes

Type of Item: *Approval*

Attached are the minutes from the May 2, 2013 meeting

1. Action Item (ID # 1052)

May 2, 2013 Minutes

Attachments:

May 2, 2013 (PDF)

PUBLIC WORKS COMMITTEE**MAY 2, 2013****6:00 P.M.****PRESENT**

Alderman David Dickerson, Alderman Morris Colburn, Mayor Kevin Wood, Public Works Director Jerry Gibbs, Assistant Public Works Director Eric Patterson, Street Superintendent Rodney Jacobs, Airport Manager James Green, Consulting Engineer Ted Martin. Chairman/Alderman Ivan Stull was present later in meeting.

Others present-Sara Davis with OATS, Walter Cook, Brian Hasek.

APPROVAL OF MINUTES

Mayor Kevin Wood called the meeting to order at 6:00 p.m.

Alderman Dickerson moved to approve the minutes of March 7, 2013. Second: Alderman Colburn. Motion carried.

PUBLIC TRANSPORTATION SURVEY RESULTS

The Public Transportation Survey results were postponed to the next meeting. Ms. Sara Davis a representative with OATS was present & was given a copy of the written report.

DISCUSSION OF PROPERTY OFFER FROM HARRY HITE

Mr. Ted Martin reported that the City is in early discussions with Harry Hite about the donation of some land to City. He showed the committee where the land is located on a map. There were questions and discussion that this land is probably in the FEMA flood plan and may be useful for a possible regional water retention area. Some concerns were addressed that access to the area is limited and about additional mowing & maintenance.

Mr. Martin stated that he would like to get more details and further evaluate this opportunity before making a recommendation.

PUBLIC WORKS PROJECT UPDATES

Mr. Jerry Gibbs reported that the KC Water Transmission Main. He stated it will be discussed in a closed session at the next Board of Alderman meeting on next Monday night. He reported on the Water Treatment Plant Upgrades Phase I and stated there will be a meeting with Burns & McDonnell on May 9th at 10:00 a.m. at the park office. He reported that on the East Washington/South Lexington Waterline improvements, he stated they are starting to get access easements. He reported on the Foundation Drain Removal program and stated that they need to review the program & strategies since the program has not been very effective. He reported that on the Energize Missouri project that more information was needed to finalize the project. He reported that a budget amendment would be needed for the matching portion on the Mechanic Street project. The tentative bid date is spring 2015.

Mr. Gibbs reported on the 291 Partners in Progress project and that right of way acquisition & appraisal is in process. Mayor Wood stated that he had met with Mark Dunmire about the extension of Plaza Drive and the possibility of subdividing the Dunmire property into smaller lots. There were questions and

Attachment: May 2, 2013 (1052 : May 2, 2013 Minutes)

discussion about Plaza Drive interchange, needing dedicated easements and the possibility of connecting Plaza Drive with Easton.

Mr. Gibbs reported that they are working on the selling or demolishing of the old electric power house building. He stated there has been some water sampling done of the standing water inside the building. He reported that some water samples have shown contamination & the water will need to be disposed of properly.

AIRPORT REPORTS

Airport Manager James Green reported that there is a design flaw in some to the newer north airport hangar buildings that allows water to leak inside the hangars. He explained & presented pictures of the problem to the committee. He reported that he has a quote for repairs of the door seals at \$1,800 per door. He reported that he had a quote to repair and to also fix the design flaw for \$2,000 per door. There were questions and discussion about some other needed additional gutter & roof repairs. Mr. Gibbs stated that a proposal will come to the Board for \$36,000 for the needed repairs. There was a brief report on jet fuel sales. Alderman Stull arrived at the meeting.

PRESENTATION BY TED MARTIN ON MS4 (STORMWATER) PERMIT

Mr. Martin reported that on September 22, 2011 the City received notice from the Missouri Department of Natural Resources that with the 2010 U.S. Census that the City would now be designated as a regulated municipal separate storm sewer system known as a MS4. He briefly explained the new regulations. He performed a brief survey and asked each committee member individually to rate 14 different categories of pollutants that they feel would likely be found in the City. He explained that staff had also taken this same rating survey. He explained that to comply with these new regulations the City will need to modify its Storm water Management Plan to address the MS4's six minimum control measures and reviewed those. He explained that the City can utilize existing Mid America Regional Council's educational information. He stated the City can take credit for any current practices like: street sweeping. Mr. Martin stated that items the City does will need to be documented and tracked. He stated this is a process we need to start to follow and much of it can be done with a minimum amount of expense but some items will require Board action. Eric Patterson stated that the GPS will be helpful in this process.

GENERAL DISCUSSION

There was questions and discussion about the use of some of the airport property as a drag strip. Mayor Wood stated he had met with some folks concerning this and since the airport has federal funding tied to it we are limited to what we can do there.

ADJOURN

A motion was made by Alderman Colburn to adjourn the meeting. Alderman Dickerson seconded the motion. Motion carried. The meeting was adjourned at 7:15 p.m.

Respectfully submitted

Debbie Goss

Attachment: May 2, 2013 (1052 : May 2, 2013 Minutes)



STAFF REPORT

TO: Public Works Committee
FROM: Rodney Jacobs, Director
DATE: May 15, 2013
SUBJECT: 2013 Asphalt Overlay Program

Type of Item: *Bid*

Type of Item: *Discussion*

Issue: 2013 Asphalt Overlay Program

Summary: Requesting approval of the 2013 Asphalt Overlay and Micro-surfacing Program budgeted at \$150,000 and recommend approval of the 2013 Asphalt & Micro-surfacing Bids.

Background: Street Department staff has selected streets for a two inch mill/overlay and micro surfacing based on its annual street condition inventory using a Pavement Condition Index or PCI rating. The rating considers potholes, cracking, rutting, and other factors to produce a score with 100 equaling new street conditions. In 2012, the City of Harrisonville spent \$381,915 on road rehabilitation with asphalt overlays, patching and chip seal program. In December 2012, Harrisonville's 146 miles of street had 19 lane miles falling below a rating of 70 on the PCI scale. This year a similar budget allows for the improvement of approximately 2.5 lane miles of asphalt mill and overlay and 4 lane miles of chip seal and some asphalt patching. Thanks to continued funding, Harrisonville has been able to achieve some success in maintaining streets whose construction consisted of a thin overlay or chip seal:

Two inch overlays are our preferred method of street maintenance but the cost can be prohibitive. The lack of a good base under our roadway causes premature rutting and cracking of the new overlay in less than 5 years. A 2" overlay should last 10 years.

Chip sealing is completed by city staff is maintenance but staff has had success in it use to level and seal streets in sections of Harrisonville with good results. The major problem is dust, texture, and color. Chip seal is seen by some as "A gravel road". A section of Thunderbird Drive was chip sealed last year using a brown hard rock from the Missouri Boot Hill with one complaint of color and tire sound and one comment praising it for its pleasing appearance. In an effort to improve our chip sealing efforts, the Street Department is trying new products. Last year the Department used more environmental friendly road oil with some success and some failures. This year haydite, a tan colored aggregate made of

expanded shale, which is suited for use with the oil and less dust will be used in some residential areas. A limestone aggregate costing three times less, \$17/ton will be used in outlying areas like Waters Road.

Micro-surfacing is a method of sealing a street and leveling minor ruts but cannot stop reflective cracking due to its thin surface of ½ inch and has been used as a preventive measure not a fix. The process was been used in 2008 on Loran Lane and Beth with good results. East Pearl Street was micro-surfaced in the past with unsatisfactory reviews but did hold the street together for several years before reconstruction. The sealing reduces cost by preventing oxidation which ages the roadways causing pitting and cracking of the asphalt similar to chip sealing.

Options: Bids were received after the packet was sent out to the Committee. Staff is recommending approval of the lowest qualified bidder(s) to overlay and/or micro-surfacing the designated streets. The committee could recommend different streets or combination overly and micro-surfacing. Overlays are \$8.20/sq yd and micro-surfacing runs about \$3.15/sq yd. Our budget is \$150,000. The number of streets and treatment will be adjusted to stay within the \$150,000 budget.

Recommendation: Staff recommends an approach incorporating the 2” overlay and micro-surfacing on the designated streets. Staff has identified the following streets for micro-surfacing. *Meghan Drive*, a medium volume school route that has problems with a weak sub base and minor rutting, *King Terrace* which has a good base but an aging asphalt surface, *Kay Street* and *Falcon Street* has low traffic volume with cracking and a thin asphalt overlays. This will allow the assessment of micro-surfacing to its future consideration in the street maintenance program.

1. Action Item (ID # 1042)

2013 Asphalt Overlay and Micro-Seal Program

Attachments:

2013 Mill and Overlay Program May 7, 2013 (PDF)

Vicintiy Map a (PDF)

BID FORM (PDF)

2013 Asphalt overlay program**2 " overlays**

Name	To	Pave L.	feet width	area ft	PC Area	yards	Comments
1 Thunderbird Dr	Maverick Trail (E)	Maverick Trail (W)	AC	1,416	24	33,984	55 3776 edge mill inhouse repair curb prior to overlay
2 Maverick Trail	Thunderbird Dr (E)	Thunderbird Dr (W)	AC	1,016	24	24,384	60 2709 edge mill inhouse repair curb prior to overlay
3 Silver Maple St	Elm St	Younger	PCC	520	24	12,480	55 1387 350' of street is PCC
4 Ann Terrace	Ann Ave	Meadow Dr.	AC	1,463	24	35,112	48 3901 edge mill inhouse repair curb prior to overlay
5 Twin Oak Terrace	Mission Rd	Twin Oaks Drive	AC	429	32	13,728	60 15303 edgemill, in house curb repair
6 Twin Oaks Drive	Twin Taks Ter	Crane	AC	350	26	8,750	60 972 edgemill
7 Twin Oaks Drive	Crane	Bird	AC	740	26	19,240	70 2137 full mill
8 Ridgewood Ct	Ridgewood Rd	Cul De Sac	AC	250	24	6,000	71 667 2" Edge mill 1" profile center
9 Chateau Dr.	Meadow Dr.	Blueberry Dr.	AC	767	24	18,408	55 2045 Edge mill appears to have a good base
10 Ridgewood Rd.	Meghan	Brookridge	AC	621	25	15,525	72 1725 Needs underdrains installed
						Total sqyds	34622

Micro Seal

1 King Terr	King Ave (S)	King Ave (N)	AC	803	24	19,272	59 2141
2 Falcon St	Thunderbird Dr	Maverick Trail	AC	898	24	21,552	64 2395
3 Kay St	Walker St	Joy St	AC	620	24	14,880	55 1653
4 Meghan Drive	Matt	south dead end	AC	1,297	32	41,504	75 4612
5 Meadowlark Dr	Bird Ave	Meghan Dr.	AC	2,822	24	67,728	80 7525
6 Elm St	Galaxie Ave	Price	AC	2,085	28	58,380	75 6487
						Total sqyds	24813



BID FORM**2013 ASPHALT OVERLAY and MICRO-SURFACING PROGRAM**

The Bidder agrees to construct the specified public improvements in Harrisonville, Missouri in accordance with the Plans, Specifications and Contract Documents for the total of the unit prices herein supplied. Bidder agrees that the entire work shown on the Plans and specified in the Bid Documents will be completed for the total herein shown, and that work not specifically identified, as a Bid Item is included in the total of the Bid Items listed below.

Schedule A- Type 3 Virgin Asphalt Overlay

Item #	Item Description	Quantity	Unit	Unit Cost	Bid Total
1	Thunderbird Drive – 2" edge mill and Type 3 virgin asphalt overlay.	2536	S.Y.		
2	Maverick Trail – 2" edge mill and Type 3 virgin asphalt overlay.	2536	S.Y.		
3	Silver Maple – 2" edge mill and Type 3 virgin asphalt overlay.	1335	S.Y.		
4	Ann Terrace – 2" edge mill and Type 3 virgin asphalt overlay.	3901	S.Y.		
5	Twin Oaks Terrace – 2"edge mill and Type 3 virgin asphalt overlay.	1525	S.Y.		
6	Twin Oaks Drive-2"edge mill and Type 3 virgin asphalt overlay.	972	S.Y.		
TOTAL BID	\$				

 Total Bid Amount Written

Attachment: BID FORM (1042 : 2013 Asphalt Overlay Program)

Schedule B- Type 3 Micro-Surfacing

Item #	Item Description	Quantity	Unit	Unit Cost	Bid Total
1	King Terrace - King to King	2141	S.Y.		
2	Falcon - Thunderbird to Maverick	2395	S.Y.		
3	Kay Street - Walker to Joy	1653	S.Y.		
4	Megan - Matt to Meadowlark	4612	S.Y.		
TOTAL BID	\$				

Total Bid Amount Written

Contractor may be bid on schedule A or Schedule B or both.

Alternates Add-in

The following streets may be added to the overlay or micro-surfacing list pending additional funding.

Ridgewood Ct	667 sq yds
Twin Oaks	2137 sq yds
Chateau	2045 sq yds
Ridgewood	1725 sq yds



STAFF REPORT

TO: Public Works Committee
FROM: Jerry Gibbs, Director
DATE: May 29, 2013
SUBJECT: Public Works Monthly Update

Type of Item: *Report***DESIGN PHASE PROJECTS:****WATER SYSTEMS**

- **KC Water Transmission Main:**
 - Negotiations are underway with Lees Summit.
- **Water Treatment Plant Upgrades Phase 1:**
 - SCADA under contract w/Blakely Engineering
 - Burns and McDonnell has started the plant optimization review
 - Taste and Odor Workshop 2 out of 3 workshops have been given,
 - Preliminary Draft of the Lake Report has been submitted for review
 - Preliminary Well Report findings concluded a well was not viable as a backup/emergency source,
 - Beginning to analyze emergency connections with PWD's
- **East Washington/South Lexington Waterline Improvements-**
 - Staff has started access easements acquisition
 - DNR approval has been given

SANITARY SEWERS

- **Ann Street Sanitary Sewer:** looking at outside engineering company to finish up
- **Foundation Drain Removal Program:** Two new applications have been received. New letter will be e-mailed citing homes built in the 50, 60 and 70's with basements are prime candidates to have a foundation drain tied into the sewer.
- **CCTV - RedZone** awarded contract by the BOA

STORMWATER

- **Morningview Storm Drainage Improvement Project:** final design comments sent to Engineer

GENERAL

- **Energize Missouri:**
 - Closeout documentation has been submitted. DNR has requested additional information. New amortization schedule and payment due date will be developed.
 - Siemens preparing audit related information

➤ **Mechanic Street-**

- Estimated project cost is \$3.1 M
- City contributing the award of STP funds of \$2.04 M and \$510,000 local match requirement
- City contract w/ TREKK for design of utilities and surveying. 100% reimburseable by MODOT
- MODOT will cover all additional costs and overruns.
- Tentative bid date Spring 2015

➤ **291Partners in Progress-**

- MODOT is in the R/W acquisition phase.
- R/W process is estimated to be 12 months in length
- Utility relocation (electric, gas, cable) cannot start until R/W is cleared by MODOT. Anticipated to be August 2013
- Water and sewer will be bid as part of the contact

➤ **North Independence Bridge -**

- Contract documents under review by MODOT
- Tentative bid time late July 2013

CONSTRUCTION PHASE PROJECTS:

- **2012 Sidewalk Program:** 100% Complete
- **Precision Drive:** Repair 100% Complete
- **c/o work on Sidewalk Program:** 15% complete

1. Discussion Item (ID # 1050)

Public Works Monthly Update



STAFF REPORT

TO: Public Works Committee
FROM: Jerry Gibbs, Director
DATE: May 29, 2013
SUBJECT: June Airport Report

Type of Item: *Report*

LAWRENCE SMITH MEMORIAL AIRPORT REPORT

Hangar and Tie Down Space:

- No Hangars are available, 6 confirmed people on the waiting list
- 6 Tie down spots available

Fuel:

- Potential jet fuel sales - approx. 250 gallons
- 100LL - our current price is \$5.70 per gallon
- Fuel prices in our service area:

Lee's Summit	\$5.42 per gal.
Miami County	\$5.63 per gal.
Grain Valley	\$5.52 per gal.
Johnson County	\$6.30 per gal.
Butler	\$5.95 per gal

AVGAS Sales:

Due to hardware problems with our credit card machine sales figures for this month are not available but can be updated at a later time.

AVGAS Supply:

Airport Manager ordered a small load (2,000 gallons) of AVGAS a couple of weeks ago. The order was small because the tank was getting low and the price had spiked. The decision would allow enough supply to get us through until the price drops back down to normal levels. Fuel costs have already started to decline and an order for the remainder of

the load will be place when the pricing is lower.

Land Appraisal:

Staff has been working on getting bids to appraise the land at, and near, the airport. We would like to use the appraised value to accomplish two things:

Establish a land lease rate for individuals or corporations who want to build private hangars on airport property

Know the value of the surrounding land to ultimately use for “land as match” for grants from MoDOT and the FAA.

This has not been an easy process since appraisals at airport typically lack comparison properties to base values off of. Many firms have been contacted and four have returned bids, some only submitted partial bids. Attached is a list of the bids I have received for appraising the land at the airport.

1. Action Item (ID # 1051)

June Airport Report

Attachments:

Lawrence Smith Memorial Airport Land Appraisal Bids June 2013 (DOC)

Potential Jet Fuel Sales May 2013 (XLS)

Lawrence Smith Memorial Airport **Land Appraisal**

<u>Firm:</u>	<u>64 Acre Tract</u>	<u>1 Acre Parcel</u>	<u>Entire Airport</u>	<u>Time Frame</u>
Valbridge	\$2,500	\$2,500	\$6,500 (Includes 64 & 1 acre)	30-40 Days
Ritter	\$2,500	\$10-15,000	No Bid Given	6 Months
Williams Group	\$2,000	No Bid Given	No Bid Given	30 Days
Hoffman Associates	\$2,500	\$2,500	No Bid Given	40 Days

Valbridge Property Advisors, even though having the highest total cost, seems to be the cheapest for the scope of the work and was the only firm to turn in a bid for the entire airport property including the 64 acre tract owned by Smith. They also seem to be the most qualified to perform the work as they have done work for several airports in MO and KS and are currently working with the Charles B. Wheeler Airport in downtown Kansas City.

POTENTIAL JET FUEL SALES

(in gallons)

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	<i>ANNUAL TOTAL</i>
2003	?	?	1,700	2,300	2,300	2,500	2,000	2,500	1,800	1,500	1,200	1,400	19,200
2004	1,800	2,500	3,500	2,500	1,500	1,500	3,000	2,800	2,000	2,000	3,200	3,400	29,700
2005	2,100	1,400	1,200	2,200	2,400	2,000	1,500	1,000	2,000	1,500	1,000	1,300	19,600
2006	1,000	1,500	1,800	1,800	1,000	1,300	1,000	1,200	1,500	1,000	1,100	800	15,000
2007	500	1,000	1,000	1,200	1,000	1,200	1,000	500	600	500	300	200	9,000
2008	200	200	200	100	100	200	300	400	200	250	150	100	2,400
2009	150	100	100	150	200	250	150	250	150	150	100	100	1,850
2010	250	350	250	150	150	100	100	150	100	0	200	250	2,050
2011	350	300	250	200	250	200	250	350	200	200	250	200	3,000
2012	150	250	150	200	400	300	200	200	300	200	350	100	2,800
2013	350	250	150	200	250								1,200