



Item: FY 2013 Traffic Signal and Sign Maintenance Agreement with the Montana Department of Transportation

From: Jerry McKinley, Traffic Supervisor

Initiated By: Public Works Department

Presented By: Jim Rearden, Public Works Director

Action Requested: Accept Agreement

Suggested Motion:

1. Commissioner moves:

“I move that the City Commission (accept/reject) the FY 2013 Traffic Signal and Sign Maintenance Agreement with the Montana Department of Transportation and authorize the City Manager to sign the agreement.”

2. Mayor calls for a second, discussion, inquiries from the public, and calls for the vote.

Staff Recommendation: Staff recommends that the City Commission approve the attached Traffic Signal and Sign Maintenance Agreement with the Montana Department of Transportation (MDT) for FY 2013.

Background:

Significant Impacts

The attached agreement between the City of Great Falls and the Montana Department of Transportation outline each agencies responsibility and details the States reimbursement to the City for maintaining State traffic signals and signs located within the City limits. The City is currently maintaining sixty-six (66) MDT traffic signals in addition to those at twenty-three (23) City signalized intersections. Three (3) flashing signal lights are also maintained for the State. The City is currently maintaining 1,878 standard traffic control signs that are in MDT right-of-ways.

On July 24, 2008 Jim Rearden and Jerry McKinley, representing the City met with Mick Johnson and Dave Hand, representing MDT District 3 and agreed in principle to the idea of an agreement that would compensate the City of Great Falls for its expenses in

maintaining certain traffic control signs in MDT right-of-ways. These are signs that traditionally have been maintained by the City of Great Falls at no cost to the State. The City would continue to be responsible for all curb control (parking) signing, as well as non-standard signage installed by the City in MDT right-of-ways as described in the current agreement.

Workload Impacts

The City employs two Traffic Signal Technicians to maintain signals on State and City routes, as well as City owned signals. The City provides all maintenance necessary for the operation of the Traffic Control System and is reimbursed by MDT in accordance with Exhibit B for costs of labor, equipment, engineering, and materials required. The technicians also maintain the over-height detection system located on US 87 by Fleet Supply on an on-call basis with reimbursement per event.

The City employs two Traffic Sign Technicians to maintain signs on State and City routes, as well as City owned signs. The City provides all maintenance necessary for the operation of the Traffic Sign System and is reimbursed by MDT in accordance with Exhibit B for costs of labor, equipment, engineering, and materials required.

Purpose

The City has an annual agreement with the Montana Department of Transportation for Traffic Signal and Sign Maintenance.

Concurrences: The State has agreed to this agreement and signed the needed documents.

Fiscal Impact: Last year's agreement was for a total of \$90,722. This agreement includes a 1.75% cost increase as compared to last year's Traffic Signal and Sign Maintenance Agreement, bringing the total compensation to \$92,364.

Alternatives: The City Commission could vote to reject this agreement.

Attachments/Exhibits: Traffic Signal and Sign Maintenance Agreement Item Justification and Exhibits.



Traffic Signal Maintenance Agreement

Item Justification

Fiscal Year 2012-13

State Owned % of Total	74.20%
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State owned signs 1,852
 State owned signals 66
 Total City & State owned signals 89

WAGE COST PER HOUR	
1.75 % Increase for 2012-13	
1792 charged hours	Hourly Rate
Signal Technician	\$40.85
Sign Specialist	\$32.13

ITEM #1 Opticom

Checked once per year. It requires 1/2 man-hour per year per signal. Equipment is cleaned, inspected and checked for proper range and proper interface/operation with control equipment.

(Tech Rate) * .5 hr / 12 months =

\$1.70 per signal/mo **66 Signals**

ITEM #2

Conflict Monitor

This is a preventive maintenance check that has been initiated to ensure installed conflict monitors are operational. It requires .75 man-hour per year per intersection. Shop tested unit is temporarily installed while original CMU is brought back to shop to be tested by CMU tester, then reinstalled at intersection. Performed once per year all intersections

(Tech Rate * .75 hr) / 12 months / 66 / 12 months =

\$2.55 per signal/mo **66 Signals**

ITEM #3

New Tools & Test Equipment (7 year life)

CARTOGRAPH SOFTWARE UPGRADE/MAINTENANCE PURCHASED FY 05-06	\$1,400	new in 2005-06
TRAFFIC SIGNAL CONFLICT MONITOR TESTER PURCHASED IN FY 06-07	\$10,000	new in 2006-07
CARTOGRAPH SOFTWARE UPGRADE/MAINTENANCE PURCHASED FY 07-08	\$1,687	new in 2007-08
3M opticom emitter for shop testing cards & heads Purchased FY 2008-09	\$995	new in 2008-09
Reno LF310 with LP300 Loop finder, probe w/ spray wand, Purchased FY2009-10	\$519	new in 2009-10
Reno ST-300 44 Pin card slot tester purchased FY09-10	\$285	new in 2009-10
Shelf & rack detector tester Model 330 Purchased FY 2009-10	\$983	new in 2009-10
Universal Programmer (chip burner) Purchased FY 2009-10	\$404	new in 2009-10
Fluke 1630 Earth Ground Clamp Purchased FY2010-11	\$1,340	new in 2010-11
4 Signal Transfer switches w/connectors Purchased FY2010-11	\$1,200	new in 2010-11
Laptop Computer Purchased FY2010-11	\$1,500	new in 2010-11
4 Signal Transfer switches w/connectors FY2011-12	\$1,200	new in 2010-11
1 Lifan Portable Generator 1000W	\$370	
5 Signal Transfer switches w/connectors FY2012-13	\$1,500	
	<u>\$23,382.70</u>	

(($\$23382.70 / 7 \text{ yrs}$) * 74.2%) / 66 units / 12 months =

\$3.13 per signal/mo **66 Signals**



Traffic Signal Maintenance Agreement

Item Justification

ITEM #4 Master Controllers This figure was derived using previous years average maintenance on the master controllers and telemetry systems. We estimate about 2.75 manhours/yr per signal working on master controllers and telemetry equipment.	$\text{Master Controller} = ((181 \text{ hrs} * \text{Tech Rate}) / 12) / 66 \text{ signals} =$	\$9.34	Affected signals per signal/mo	66
ITEM #5 Vehicle Detectors It takes about two signal tech manhours to install a microwave detector. Sensys wireless vehicle detection has been added. We estimate 4 signal tech manhours to install this system. Sensys wireless vehicle detection for 2 intersection approaches MICROWAVE DETECTORS: average 2 each year Microwave="labor:(2 hrs * Tech Rate * 2) / "&TEXT(\$48,0)&" signals / 12 mos =" Sensys="labor:(4hrs * Tech Rate * 2) / "&TEXT(\$48,0)&" signals / 12 mos =" Sensys wireless: \$4,100.00 Microwave detector: \$638 each	Total	\$8.50	Affected signals per signal/mo	45
ITEM #6 Overtime Overtime is tracked each year and billed accordingly. We averaged 2.5 hours/mth overtime in 2011-12. (30hrs) 5/30/2011 thru 5/1/2012 (C57(C56C27 hrs * Tech Rate * 1.5) / 66 signals / 12 months =	Total	\$2.32	Affected signals per signal/mo	66 Signals
ITEM #7: Travel Travel to Helena for annual signal tech meeting per man (2011-12 expenses) (((Tech Rate * 24 hrs)*2 men)+(expenses 225.00) * 2 Men) / 66signals / 12	Total	\$3.04	Affected signals per signal/mo	66 Signals
ITEM #8 Material Control/ Recordkeeping Includes ordering & stocking of parts, recordkeeping 18% of work hours for 1 technician. (Tech Rate * Hours/Year * 74.2% * 18%) / 66 signals / 12 months =	Total	\$12.34	Affected signals per signal/mo	66 Signals
ITEM #9 Liability Insurance City's 2011-12 insurance costs for 2 men are \$3668 ((\$3668) * 74.2%) / 66 signals / 12 months =	Total	\$3.668	Annual Insurance Cost per signal/mo	66 Signals
ITEM #10 Telephone Signal Shop Telephone per year Long Distance Charges in 2011-12 Two Cell Phones @ \$80 per month 2012-13 Hill 57 Line @ \$46.00 per month cancelled We figure 25% MDT use for shop, cell phones & long distance. (((191.40+(13.28+930.60)*0.25) + (627.60*74.2%))) / 66signals / 12 months	Total	\$0.37	Affected signals per signal/mo	66 Signals



Traffic Signal Maintenance Agreement

Item Justification

ITEM #11 Pole & Cabinet Preventive Maintenance Materials

For this figure we attempt to take an average for the amount of materials consumed per intersection when we perform pole preventive maintenance. LED displays have replaced light bulbs, so annual lamp purchases have been eliminated from materials.

We perform pole maintenance on each signal every 3 years (22 signals). Cabinet maintenance is performed at each signal cabinet every year (66 signals). We attempt take an average amount of materials used each year for Cabinet maintenance.

Cabinet				
\$ 27.99	Fan Motors(3 per/yr) @ \$9.33ea / 12 / 66		per signal/yr	66.0 Signals
\$ 535.40	Heater Strips(5 per/yr) @ \$107.08ea / 12 / 66	0.04	per signal/yr	66.0 Signals
\$ 111.00	Cabinet Filter material 2 rolls per yr x \$55.50 per roll x 74.2% / 12 / 66	0.68	per signal/yr	66.0 Signals
\$ 33.00	Compressed Gas 1 can per 2 cabinets (66/2*\$10 per can)	0.10	per signal/yr	66.0 Signals
\$ 5.00	Electro Wash @ \$5per can	\$6.00	per signal/yr	66.0 Signals
		\$5.00	per signal/yr	66.0 Signals
	SUBTOTAL	\$11.82		
Pole				
\$ -	Removed - 1 CAN @ \$5.50 (Econolite green)	\$0.00	per signal/yr	22.0 Signals
\$ 6.81	1 CAN Red IRON Primer @ \$6.81	\$6.81	per signal/yr	22.0 Signals
\$ 6.81	1 CAN FLAT BLACK @ \$6.81	\$6.81	per signal/yr	22.0 Signals
\$ 13.00	RAGS FOR CLEANING @ \$13.00/MO DIVIDED BY 22.0 UNITS	\$5.26	per signal/yr	22.0 Signals
\$ 17.00	Safety Glasses for spray painting during maintenance	\$1.42	per signal/yr	22.0 Signals
	SUBTOTAL	\$20.30		
	Pole Cabinet Total	\$0.56	per signal/yr	22.0 Signals
		\$0.99	per signal/yr	66.0 Signals
		\$1.55	per signal/mo	66 Signals

ITEM #12 Pole & Cabinet Preventive Maintenance Labor

It takes 1.75 hours for 1 Tech and 1 Laborer to perform pole preventive maintenance on an intersection every three years. It takes 1 Laborer .5hrs per intersection to test & visually inspect every ped button and ped display twice a year.

Video camera lens cleaning has been added to preventative maintenance. It is performed every 4 months on 12 cameras at 8 signals.

Cabinet preventative maintenance has been added. 66 signals visited every year.

(.5 * Tech Rate * 66 cabinets / 12mth / 66 signals)

(.25 * Tech Rate * 12 cameras / 12mth / 8 signals)

.5 hrs * Sign Specialist Rate / 12 months =

(2 hrs * Tech Rate) + (2 hrs * Laborer rate) / 3 / 12 months

\$1.70	per signal/mo	66 Signals
\$1.28	per signal/mo	8 signals
\$1.34	per signal/mo	66 Signals
\$7.87	per signal/mo	66 Signals

ITEM #13 Emergency Repair Parts

These include all parts required due to damage from vandalism, unreported vehicle damage, weather related damages, etc. We use a five year average.

4 Pelco Pole Base @ \$155 ea				
1 - 12" Green LED's @ \$66.61 ea	\$0.78	per signal/mo		
1 - 12" Red LED's @ \$43.05 ea	\$0.08	per signal/mo		
1 - 8" Green LED's @ \$55.54 ea	\$0.05	per signal/mo		
1 - 8" Red LED's @ \$32 ea	\$0.07	per signal/mo		
1 - 12" Yellow LED's 2 \$65 ea	\$0.04	per signal/mo		
200 FT, 12 conductor AWG14 signal cable @ \$1.58/FT =	\$0.08	per signal/mo		
200 FT, 4 CONDUCTOR OPTICOM LEAD-IN CABLE @ \$0.21/FT =	\$0.40	per signal/mo		
HOUSINGS (5) @ \$70 =	\$0.05	per signal/mo		
BACKSHIELDS (10) @ \$50 =	\$0.00	per signal/mo		

Affected signals 66



Traffic Signal Maintenance Agreement

Item Justification

VISORS (10) @ \$21.00 =
 2-Opticom 762 Phase Selectors @ \$1759 ea.
 1 OPTICOM 722 DETECTOR HEAD @ \$675 EA

\$0.00 per signal/mo
 \$4.44 per signal/mo
 \$0.85 per signal/mo
\$6.84 per signal/mo

Total

ITEM #14	Emergency Repair Labor	Affected signals	66
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The City has averaged 90 manhours per year on emergency maintenance in recent years.

(90 hrs * 74.2% * Tech Rate) / 66 signals / 12 months =

\$3.44 per signal/mo

ITEM #15:	Signal Control & Communications Parts		
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The cost of signal control parts/repairs, radio replacement/repair is estimated at \$3,000 per year.

202.80 annual shipping for repairs
 585.00 annual conflict monitor tester calibration & certification
 3000 + 245 + 585 x 74.2% / 66/12

\$0.19 per signal/mo
 \$0.55 per signal/mo
\$3.55 per signal/mo

66 Signals
66 Signals



Traffic Signal Maintenance Agreement

Item Justification

ITEM #16	Signal On-site Observation SIGNAL OBSERVATION: On site observation by a qualified technician for traffic flow analysis, proper functioning and equipment repair is on average .25 manhours per signal per month. For state signals: (Tech Rate * 0.25 manhours * 12 months * 66 signals) / 66 units / 12 mos = ^USE 0.30 MANHOURS PER MONTH	\$10.21	per signal/mo	66 Signals
ITEM #17	Signal Control & Communications Labor This includes controllers, radios, detectors, conflict monitors, switch packs, and flashers. We average 12 hrs/month. (Tech Rate * 12 hrs * 74.2%) / 66 units =	\$5.51	per signal/mo	66 Signals
ITEM #18	Signal Vehicle Rather than charge rental fees for the signal vehicle, we estimate actual cost to the City. If we used nationally recognized rental rates, the cost would be much higher. Amortizing the signal truck over 11 years (15% trade-in) at an initial cost of \$70,000, Annual Repairs are est. @ \$2000 This signal truck was purchased in Jan. 2002. It uses diesel fuel only. We have six years of fuel usage and maintenance repair data. Annual Amortization = (\$ 70,000 * 0.85 * 74.2 %) / 11 years Fuel price per gallon estimate for 2012-13 (\$3.50). Fuel usage in 2011 \$917 gal/yr ((\$ 4,014 + \$ 2,000 + (917 gals. * \$ 3.50)) * 74.2 % / 66 signals) / 12 months	917 \$4,014 \$3.50 \$8.64	2011 fuel usage/gallons	
ITEM #19	Miscellaneous Hardware This figure includes nuts, bolts, cones, stakon terminals, connectors, solder, gas for blow torch, small indicator bulbs, shrink tube, etc. @ \$600/YEAR.	\$0.56	per signal/mo	66 Signals
ITEM #20	Pedestrian Signal Maintenance Parts 4 LED PED Modules \$140 ea 8-Push Button Housing 5"x7 3/4" Green Pl#DDCC57HG @ \$28.71 ea 8- Bull Dog PPB w/SS cap, momentary LED & beeper - dark green @ \$75.00 ea 1-Ped Push Button-Tactile @ \$1,000 ea	\$560.00 \$0.00 \$600.00 \$1,000.00 \$2,160.00 \$2.73	per signal/mo	66 Signals
ITEM 21	Time Clocks 49 SIGNALS -- NOT 10 AVE S (2nd-49th) Real-time clocks are checked and adjusted quarterly, one manhour/signal/year Tech Rate * 1 hr / 12 months no longer necessary	Affected signals \$0.00	49 per signal/mo	
ITEM 22	Underground Locates/ Plan Reviews for MDT Signals 6.25 Recently locates have averaged 6.25 manhours per month - many consultants, EPA well monitoring. We estimate 12 manhrs/yr on signal plan reviews.	\$4.49	per signal/mo	66 Signals
ITEM 23	Maintenance to State owned Traffic Signs \$ 2,387.74 Cost of Materials used from 5/1/ 2011 to 5/1/12012 \$ 1,794.50 Cost of Labor & equipment used from 5/1/ 2011 to 5/1/2012 \$ 4,182.24 Total cost of maintenance/repair actions performed from 5/1/ 2011 to 5/1/2012	\$0.19	per sign/mo	1852



Traffic Signal Maintenance Agreement

Item Justification

SUMMARY

Item	Per Month	
	2011-12	2012-13
Opticom	\$ 110.22	\$ 112.20
Conflict Monitors	\$ 165.00	\$ 168.30
Tools & Test Equip.	\$ 190.08	\$ 206.58
Master Controllers	\$ 603.90	\$ 616.44
Vehicle Detectors	\$ 381.60	\$ 382.50
Overtime	\$ 135.30	\$ 153.12
Travel	\$ 200.64	\$ 200.64
Material Control	\$ 798.60	\$ 814.44
Liability Insurance	\$ 217.80	\$ 227.04
Phone	\$ 66.00	\$ 24.42
Pole & Cabinet Maintenance materials	\$ 96.36	\$ 102.30
Pole & Cabinet Maintenance Labor	\$ 508.84	\$ 519.25
Emergency Repair Parts	\$ 382.80	\$ 451.44
Emergency Repair Labor	\$ 247.50	\$ 227.04
Solid State Parts	\$ 150.32	\$ 234.17
Coord. & Observation	\$ 660.66	\$ 673.86
Solid State Repair	\$ 356.40	\$ 363.66
Vehicles	\$ 570.90	\$ 570.24
Large Sign Truck	\$	\$
Misc. Hardware	\$ 36.96	\$ 36.96
Pedestrian Hardware	\$ 133.32	\$ 180.18
Time Clocks	\$	\$
Underground Locates	\$ 290.40	\$ 296.34
Sign Maintenance (12% admin is already included in monthly cost)	\$ 504.35	\$ 348.18
Sub Total	\$ 6,807.95	\$ 6,909.30
Admin. (12.0% of prev.)	\$ 756.43	\$ 787.33
Total	\$ 7,564.38	\$ 7,696.64
	change from last year	1.75%

12.00%



Exhibit A

Itemized Cost Matrix

Fiscal Year 2012-13

Table with columns: Intersection Location, Complexity Factor, Signal Cabinet Type, Controller Type, Opticom Monitor, Conflict Monitor, Master Controllers, Vehicle Detectors, Tools & Equip., Overtime, Travel, Material Control/Keeping, Liability Insurance, Pole & Cabinet Pw Labor, Pole & Cabinet Pm Material, Emerg. Repair Parts, Emerg. Labor, UG Locates, Coord. Observation, Solid State Parts, Solid State Repairs, Signal Vehicles, Misc. Hardware, Time Clocks, Ped. Signal Maint., Phone Charges, Admin @ 12.0%, Monthly Total, Monthly Adjusted for Complexity, Yearly Total.

TOTALS \$112.20 \$168.30 \$892.80 \$206.66 \$163.12 \$202.04 \$61.44 \$227.04 \$519.28 \$102.20 \$451.44 \$277.04 \$299.34 \$973.86 \$294.17 \$193.66 \$100.00 \$100.18 \$34.42 \$787.23 \$7,685.64 \$2,332,92.42



Exhibit B

Fiscal Year 2012-13

Item Description	Fiscal Year Monthly Charges		Change from FY 2011-12
	2011-12	2012-13	
Opticom	\$ 110.22	\$ 112.20	1.80%
Conflict Monitor	\$ 165.00	\$ 168.30	2.00%
Master Controllers	\$ 603.90	\$ 616.44	2.08%
Vehicle Detectors	\$ 381.60	\$ 382.50	0.24%
Tools & Test Equipment	\$ 190.08	\$ 206.58	8.68%
Overtime	\$ 135.30	\$ 153.12	13.17%
Travel	\$ 200.64	\$ 200.64	-0.00%
Material Control\ Recordkeeping	\$ 798.60	\$ 814.44	1.98%
Liability Insurance	\$ 217.80	\$ 227.04	4.24%
Pole & Cabinet PM Labor	\$ 508.84	\$ 519.25	2.05%
Pole & Cabinet PM Material	\$ 96.36	\$ 102.30	6.16%
Emergency Repair Parts	\$ 382.80	\$ 451.44	17.93%
Emergency Repair Labor	\$ 247.50	\$ 227.04	-8.27%
Underground Locates	\$ 290.40	\$ 296.34	2.05%
Coordination & Observation	\$ 660.66	\$ 673.86	2.00%
Signal Control & Communications Parts	\$ 150.32	\$ 234.17	55.78%
Signal Control & Communications Labor	\$ 356.40	\$ 363.66	2.04%
Signal Vehicles	\$ 570.90	\$ 570.24	-0.12%
Miscellaneous Hardware	\$ 36.96	\$ 36.96	-0.00%
Time Clocks	\$ -	\$ -	0.00%
Pedestrian parts	\$ 133.32	\$ 180.18	35.15%
Telephone	\$ 66.00	\$ 24.42	-63.00%
Administration	\$ 756.43	\$ 787.33	4.09%
Sign Maintenance	\$ 504.35	\$ 348.18	-30.97%
Monthly Total	\$ 7,564.38	\$ 7,696.64	1.75%
Yearly Total	\$ 90,772.56	\$ 92,359.62	1.75%



Exhibit C

Monthly Payment Schedule

Fiscal Year 2012-13

Month	Charge <i>*(rounded to nearest whole dollar)*</i>
July, 2012	\$ 7,697
August, 2012	\$ 7,697
September, 2012	\$ 7,697
October, 2012	\$ 7,697
November, 2012	\$ 7,697
December, 2012	\$ 7,697
January, 2013	\$ 7,697
February, 2013	\$ 7,697
March, 2013	\$ 7,697
April, 2013	\$ 7,697
May, 2013	\$ 7,697
June, 2013	\$ 7,697
Total	\$ 92,364

(FY total of rounded monthly amount)



Exhibit D

Maintenance Cost Summary (per intersection)

Fiscal Year 2012-13

Intersection Location	Monthly Cost	Yearly Cost	
10th S. @ Fox Farm	\$ 148.68	\$ 1,784.16	
10th S. @ 2nd St.	\$ 148.68	\$ 1,784.16	
10th S. @ 5th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 7th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 9th St.	\$ 148.68	\$ 1,784.16	
10th S. @ 11th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 13th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 14th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 15th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 20th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 23rd St.	\$ 114.37	\$ 1,372.43	
10th S. @ 25th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 26th St.	\$ 148.68	\$ 1,784.16	
10th S. @ 32nd St.	\$ 148.68	\$ 1,784.16	
10th S. @ 38th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 39th St.	\$ 114.37	\$ 1,372.43	
10th S. @ 43rd St.	\$ 114.37	\$ 1,372.43	
10th S. @ 49th St.	\$ 114.37	\$ 1,372.43	
10th N. @ 57th St.	\$ 148.68	\$ 1,784.16	
2nd N. @ 3rd St.	\$ 104.85	\$ 1,258.19	
2nd N. @ 4th St.	\$ 104.85	\$ 1,258.19	
2nd N. @ 5th St.	\$ 104.85	\$ 1,258.19	
2nd N. @ 6th St.	\$ 104.85	\$ 1,258.19	
2nd N. @ 9th St.	\$ 104.85	\$ 1,258.19	
2nd N. @ 14th St.	\$ 80.76	\$ 969.10	
2nd N. @ 15th St.	\$ 80.76	\$ 969.10	
2nd N. @ 25th St.	\$ 80.76	\$ 969.10	
2nd N. @ 26th St.	\$ 80.76	\$ 969.10	
2nd N. @ 38th St.	\$ 114.37	\$ 1,372.43	
2nd N. @ 57th St.	\$ 148.68	\$ 1,784.16	
1st N. @ 2nd St.	\$ 80.76	\$ 969.10	
1st N. @ 3rd St.	\$ 80.76	\$ 969.10	
1st N. @ 4th St.	\$ 80.76	\$ 969.10	
1st N. @ 5th St.	\$ 80.76	\$ 969.10	
1st N. @ 6th St.	\$ 80.76	\$ 969.10	
1st N. @ 7th St.	\$ 80.76	\$ 969.10	
1st N. @ 9th St.	\$ 88.09	\$ 1,057.10	
1st N. @ 14th St.	\$ 80.76	\$ 969.10	
1st N. @ 15th St.	\$ 80.76	\$ 969.10	
1st N. @ 25th St.	\$ 80.76	\$ 969.10	
1st N. @ 26th St.	\$ 80.76	\$ 969.10	
1st N. @ Park Drive	\$ 114.37	\$ 1,372.43	
1st N. @ River Drive	\$ 148.68	\$ 1,784.16	
NW Bypass @ 3rd St.	\$ 114.37	\$ 1,372.43	
NW Bypass @ 6th St.	\$ 114.37	\$ 1,372.43	
NW Bypass @ 9th St.	\$ 114.37	\$ 1,372.43	
3rd St. NW @ 14th Ave.	\$ 114.37	\$ 1,372.43	
Smelter @ 5th St.	\$ 114.37	\$ 1,372.43	
Smelter @ 6th St.	\$ 148.68	\$ 1,784.16	
Smelter @ 8th St.	\$ 114.37	\$ 1,372.43	
Smelter @ 10th St.	\$ 114.37	\$ 1,372.43	
15th St. Bridge N.	\$ 114.37	\$ 1,372.43	
15th St. Bridge S.	\$ 114.37	\$ 1,372.43	
6th S. @ 14th St.	\$ 114.37	\$ 1,372.43	
6th S. @ 15th St.	\$ 114.37	\$ 1,372.43	
8th N. @ 14th St.	\$ 114.37	\$ 1,372.43	
8th N. @ 15th St.	\$ 114.37	\$ 1,372.43	
Central @ 14th St.	\$ 80.76	\$ 969.10	
Central @ 15th St.	\$ 80.76	\$ 969.10	
Central W. @ 3rd St.	\$ 148.68	\$ 1,784.16	
Central W. @ 6th St.	\$ 148.68	\$ 1,784.16	
Central W. @ 9th St.	\$ 114.37	\$ 1,372.43	
River Drive @ 9th St.	\$ 114.37	\$ 1,372.43	
River Drive @ 38th St.	\$ 114.37	\$ 1,372.43	
14th SW @ 1315	\$ 148.68	\$ 1,784.16	
14th SW @ 16th Ave.	\$ 114.37	\$ 1,372.43	
Sign Maintenance for MDT	\$ 348.18	\$ 4,178.11	
Totals	\$ 7,696.64	\$ 92,359.62	% Change
	FY 2011-12	\$ 90,772.56	1.75%