

Independent Citizen Committee

Public Safety General Obligation (GO) Bond

Date:

August 3, 2016

PUBLIC SAFETY GENERAL OBLIGATION BOND INDEPENDENT CITIZEN COMMITTEE MEETING

**August 3, 2016
2:00PM - 4:00PM
City Hall Rose Room**

AGENDA

- | | | |
|-----------|--|----------------|
| 1. | Welcome | 2:00 PM |
| 2. | Committee Business | 2:10 PM |
| | a. Approve Meeting Summary from November | |
| 3. | Overall Program Financial Reporting | 2:15 PM |
| | a. Program's financial status report | |
| 4. | Review Project Status Reports | 2:35 PM |
| | a. Apparatus | |
| | b. Emergency Radio System | |
| 5. | Questions/Next Steps | 3:25 PM |
| 6. | Adjourn | 4:00 PM |

Previous Meeting Notes

Public Safety GO Bond Independent Citizen Committee

Meeting Notes for May 4, 2016

ICC members present: Kirk Hall, Nicolette Johnson, Mick Seidl

ICC members absent: Cobi Jackson

City staff present: Karl Larson, Ralph Smith, Jeff Baer, Marco Benetti, Ethan Cirimo, Aaron Beck

Committee Business:

- Minutes from February, 2016 meeting were discussed and approved.
- City staff presented financial spreadsheets on GO Bond Fund expenses to date.
- City staff presented updates on the two projects still in progress.
- City staff discussed its annual presentation to Council.

Follow Up Items:

City staff – None

ICC – None

Next Quarterly Meeting (August 3, 2016) Agenda Items

Adjourn

Program, Budget, Actual Life-to-Date Expenses and Revenues

**Public Safety GO Bond Program
 Program budget and actual life-to-date expenses and revenues
 For ICC August 2016 meeting**

	Original budget	Current budget	Life to date actuals through June 2016	Balance
<u>Requirements</u>				
Fire Station 21	\$7,900,000	\$10,524,377	\$10,471,585	\$52,792
Fire Apparatus	\$19,800,000	\$21,987,345	\$14,038,916	\$7,948,429
Emergency Coordinations Center	\$19,848,543	\$19,631,571	\$19,631,571	\$0
Public Safety Emergency Radio System	\$52,096,007	\$50,187,134	\$39,385,786	\$10,801,348
Program Admin costs (General Fund Overhead)	\$625,000	\$626,064	\$477,396	\$148,668
Fire project management	\$575,000	\$250,000	\$0	\$250,000
Bond issuance costs	\$560,000	\$560,000	\$488,167	\$71,833
Program contingency	\$0	\$0	\$0	\$0
TOTALS	\$101,404,550	\$103,766,491	\$84,493,421	\$19,273,070
<u>Resources</u>				
Other cash for Public Safety Emergency Radio System	\$3,156,007	\$3,156,007	\$3,156,007	\$0
Public Safety Emergency Radio System replacement monies	\$10,000,000	\$10,000,000	\$10,000,000	\$0
GO bond proceeds (2010)	\$72,400,000	\$70,540,309	\$70,526,966	\$13,343
GO bond proceeds (1998)	\$0	\$701,672	\$701,672	\$0
Grants	\$0	\$2,356,758	\$2,110,291	\$246,467
Property sales	\$0	\$701,755	\$701,755	\$0
Miscellaneous	\$0	\$7,426	\$70,252	(\$62,826)
Water and Facilities Services resources for ECC project	\$15,848,543	\$15,631,571	\$15,576,493	\$55,078
Interest earnings	\$0	\$670,993	\$720,879	(\$49,886)
Total resources	\$101,404,550	\$103,766,491	\$103,564,314	\$202,177

Fire Apparatus Replacement Project

Quarterly Summary and Finances

Fire Apparatus Replacement Project (As of June 30, 2016)

Project Status		
Overall		<ul style="list-style-type: none"> The two new fireboats were officially placed into emergency service on May 2, 2016. Nine new fire engines (pumpers) are currently under construction at Pierce Manufacturing. The two air/light/rehab units have been delivered and one is now in-service. The second unit will be in-service by the end of July 2016. City Council authorized the purchase of the remaining apparatus: the brush units (up to three like units), the water tender, the foam unit and the dive van. Specifications for these units are still in development.
Schedule		The project timeline is on schedule.
Cost		The project remains within budget.
Scope		The project remains within its scope.
Quality		The project's quality remains on-track.
Key		Green: on target – Yellow: objectives threatened – Red: corrective action needed

Executive Summary

The apparatus replacement project continues to progress with planned schedules and budget. The fireboats are now in active service. The two new rehab/air/light units have been delivered with one in-service and the other scheduled to be in-service by the end of July 2016. Nine Pierce fire engines have been ordered and are under construction. The expected delivery of the first engine is fall of 2016; thereafter, the delivery schedule will be two engines every two months.

Major timelines/milestones

- Fireboats are in service at Stations 17 and 21
- The air/light/rehab units have been delivered, one is in service at Station 19, the other unit is scheduled to be in service in July at Station 5.
- Nine fire engines (pumpers) are under construction with phased delivery of the units beginning fall of 2016.
- Authorization to proceed with purchase of remaining units (brush units, for unit, water tender, and dive van) was granted by City Council.

Project risks/issues

Delays in construction of apparatus are a potential risk due to the high volume of apparatus being built by manufacturers. PF&R is working with the vendor to ensure delays are minimized.

Issues are often identified at the factory inspections if the apparatus under construction does not meet PF&R's specifications. These situations always present potential risks by creating delays and/or additional costs depending on whether the error was caused by PF&R's specification or by the manufacturer. If these situations arise, PF&R works with the manufacturer to negotiate workable solutions.

Problems encountered/how they were dealt with

No problems have been identified to date.

Next steps/next quarter projections

- Continue to monitor construction of the apparatus on order.

- Continue to work on the specifications of the water tender, brush vehicles, foam unit and dive van by evaluating apparatus needs.

Estimated completion in Fall 2016*

Fire & Rescue Apparatus Replacement
 Financial Status Report for Independent Citizen Committees

	Acquisition Status	Revised Unit Price Estimates	Revised Allocations	Actual Expenditures (thru June 2016)	Encumbrances & Advances (thru June 2016)	Remaining Balance
REQUIREMENTS						
Direct Costs						
9 Engines <i>(increased to 9 units 7/2015)</i>	9 on order	\$637,778	\$5,740,000	\$58,597	\$5,200,000	\$481,403
4 Ladder Trucks	4 received	\$1,024,712	\$4,098,846	\$4,098,846	\$0	\$0
2 Quints <i>(added 3/2014)</i>	2 received	\$778,056	\$1,556,112	\$1,556,112	\$0	\$0
3 Brush Vehicles <i>(increased by 1 unit 7/2016)</i>	specifications in development	\$394,605	\$1,183,814	\$0	\$0	\$1,183,814
2 Air / Light / Rehab Units	2 received	\$678,805	\$1,291,287	\$1,291,287	\$0	\$0
1 Water Tender	specifications in development	\$300,000	\$300,000	\$0	\$0	\$300,000
1 Dive Apparatus <i>(restored 7/2015)</i>	specifications in development	\$350,000	\$350,000	\$0	\$0	\$350,000
1 Foam Unit <i>(added 7/2015)</i>	specifications in development	\$375,000	\$375,000	\$0	\$0	\$375,000
1 Heavy Rescue Squad	1 received	\$1,127,178	\$1,127,178	\$1,127,178	\$0	\$0
2 Fire Boats	2 received	\$2,680,000	\$5,743,277	\$5,743,277	\$0	\$0
4 Rapid Response Vehicles	4 received	\$55,457	\$221,831	\$221,831	\$0	\$0
Total direct costs			\$21,987,345	\$14,097,128	\$5,200,000	\$2,690,217
Indirect Costs						
Project Management Costs			\$250,000	\$85,000	\$0	\$165,000
Total indirect costs			\$250,000	\$85,000	\$0	\$165,000
TOTAL REQUIREMENTS			\$22,237,345	\$14,182,128	\$5,200,000	\$2,855,217
RESOURCES						
GO bonds			\$20,680,878	\$12,540,661	\$5,200,000	\$2,940,217
Grants			\$1,556,467	\$1,556,467		\$0
TOTAL RESOURCES			\$22,237,345	\$14,182,128	\$5,200,000	\$2,855,217

Radio Replacement Project

Quarterly Summary and Finances

Radio Replacement Project Oversight Committee Report (As of June 30, 2016)

Project Status / Highlights / Accomplishments

In general, all site work is moving ahead with good progress. All Motorola equipment was installed and has been powered up. With the exception of Walter's Hill, all site work is progressing as needed. The new building was obtained on the Biddle Butte site and is complete.

Additional information on project sites:

Walters Hill – The Walters Hill project received final approval in spring 2016. Contractors are nearly complete with this building and the accompanying tower. Equipment transfer is.

Other highlights:

Both the East and West Simulcast loops were powered up and are being tested. All communications for the east simulcast will be switched in October, with the west scheduled shortly thereafter. .

Subscriber equipment is continuing to be installed. We project completion of transitional radio equipment at 69% at this time.

Project Risks/Issues/Problems

None

Major Timelines/Milestones

Microwave and backhaul change out from T-1 (telephone grade) circuits to IP based circuitry and equipment were completed and tested. All Microwave is in place with the exception of the second loop from Walters Hill to Biddle Butte.

Next Steps/Next Quarter Projections

Power up is complete. Full transition to the new system will take place in the next quarter and be complete by the end of the year.

The Quality Assurance vendor, Federal Engineering, gives this snapshot of the project:

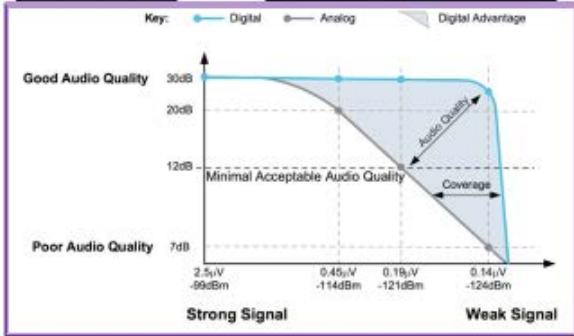
Estimated completion in Summer 2016

Key Project Dates	Planned	% Complete
79 % Complete to Date		
Detailed Site Surveys	8/23/2013	100
Contract	11/13/2013	100
Project Initiation and Kickoff	11/14/2013	100
Contract Design Review	6/6/2014	100
7.13 Upgrade	2/27/2014	100
Equipment Manufacture	6/10/2014	100
CCSI Staging	10/10/14	100
FCC Licensing (City)	3/29/2014	75
Program & Install New Subscriber Equipment (City)	7/27/2015	85
Upgrade Existing Subscriber Equipment (City)	1/6/16	60
Fixed Equipment Installations	3/11/16	100
System Optimization	4/25/2016	100
System Upgrade	5/28/2016	100
Coverage Acceptance Testing (<i>Informational only subjective testing remains to be completed</i>)	6/20/2016	95
IP Site Links	8/8/16	100
Geo Redundant Prime Sites	8/26/2016	90
DSR Integration	8/26/2016	50
Field Acceptance Testing	9/26/2016	0
Training	9/29/2016	0
WAVE Implementation	10/18/2016	0
Cut Over – Phase I	11/18/2016	0
Implement Phase II Frequencies	1/25/2017	0
Cut Over – Phase II	1/25/2017	0
Project Finalization	1/25/2017	0

City of Portland
**Emergency & Public Safety
 Radio System
 Replacement Project**

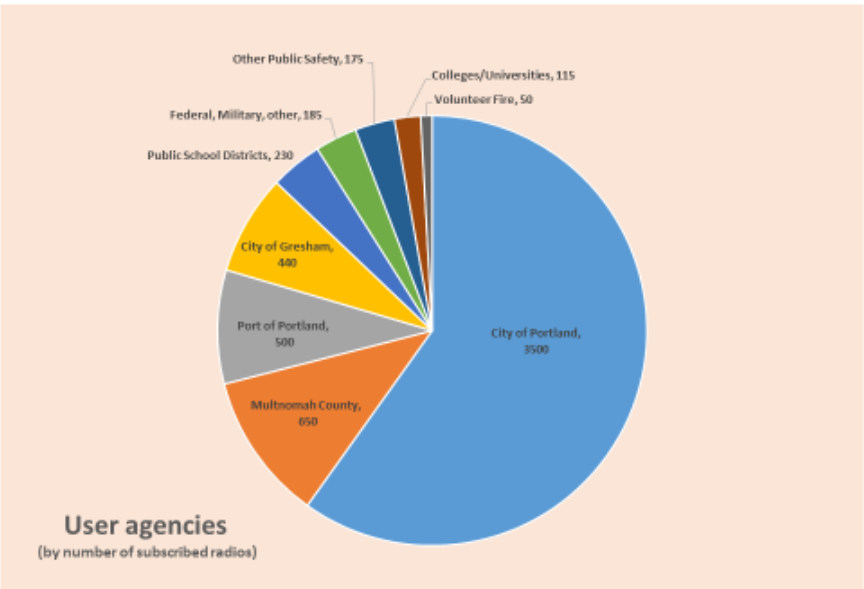


The new radio system is an all-digital P25-compliant system. The legacy system utilized analog technology, which has reached end of support by radio system manufacturers and cost-efficiency.

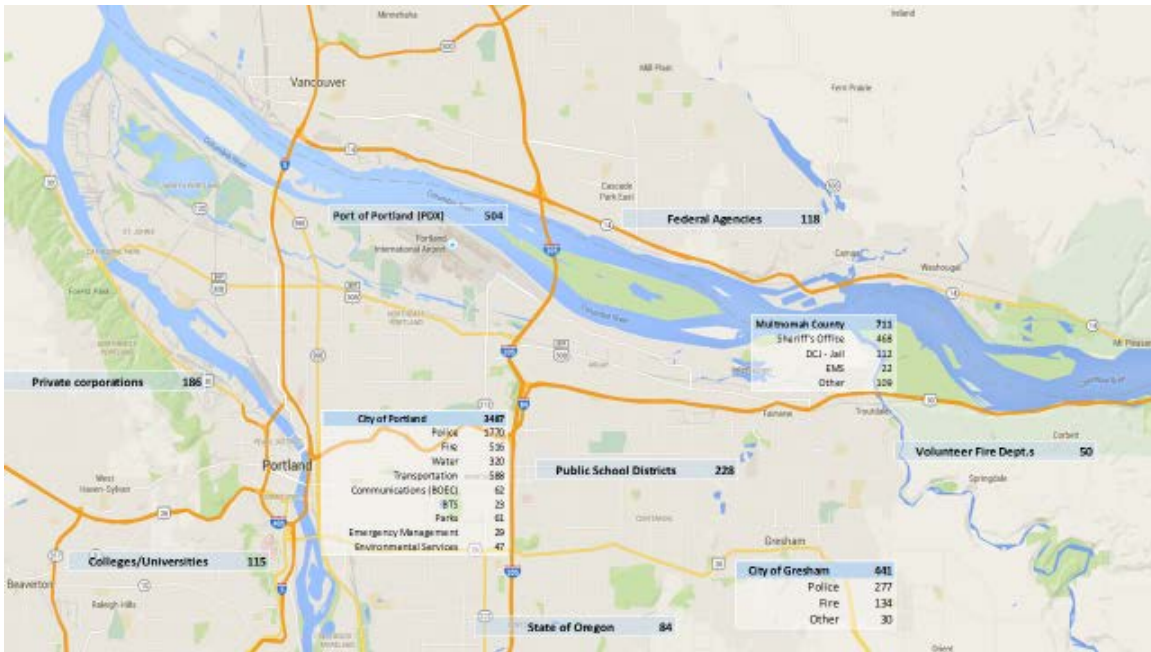


Digital Radio vs. Analog Radio

Project 25 (P25 or APCO-25) is a suite of standards for digital radio communications for use by federal, state/province and local Public safety organizations in North America to enable them to communicate with other agencies and mutual aid response teams in emergencies. P-25 is expected to work jointly with existing analog systems. Therefore, it uses "simulcast" method for control. "Simulcast" refers to the use of the same set of control channels throughout a given area, which are "simultaneously broadcast, or simulcast" in the region.



There are well over 6000 subscriber units (radios of various types) on the system. As this graph shows, the majority are those used by City bureaus, especially Police and Fire



Physical Characteristics

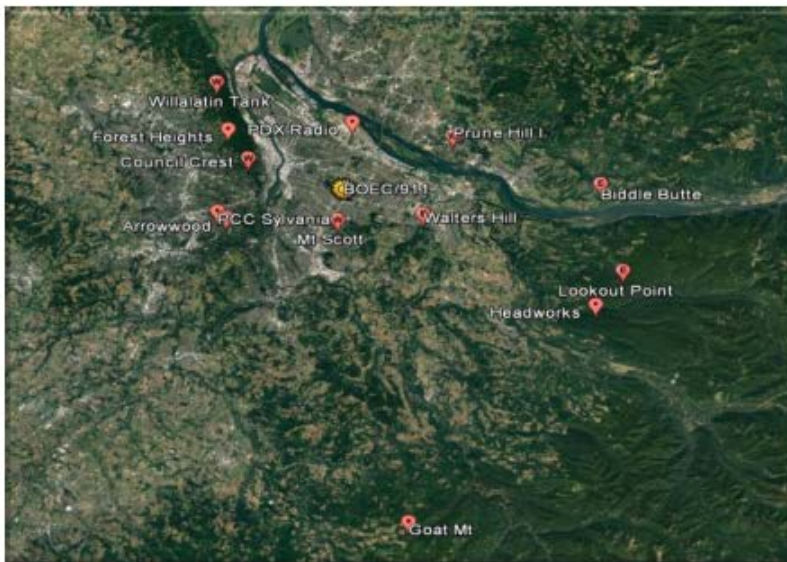
- Display: Top and front
- Keypad: Full or None
- Emergency button: Programmable
- Weight (with standard battery): 16.4 oz
- Dimensions H x W x D (with standard battery): 5.47 x 2.98 x 1.6 inches
- Large knobs to accommodate gloved-hand control

Radio Features

- Advanced Software Features: Over the Air Programming (OTAP)
- Audio profiles: Yes
- Noise reduction software: Yes
- Number of channels: Max channel capacity 1250
- Audio Profiles: Yes
- Voice operated transmit (VOX): Yes
- Integrated voice and data: Yes
- Text messaging capable: Yes
- GPS operation: Yes
- GPS (Customer Programming Software): Yes
- Signaling: ASTRO® and ASTRO 25
- Status calls: Yes
- Time out timer: Yes
- Programmable buttons: Yes

User Environment

- Intrinsically safe: Yes
- Water resistance: Up to 30 min. in up to 40° of water
- Submersible: Yes



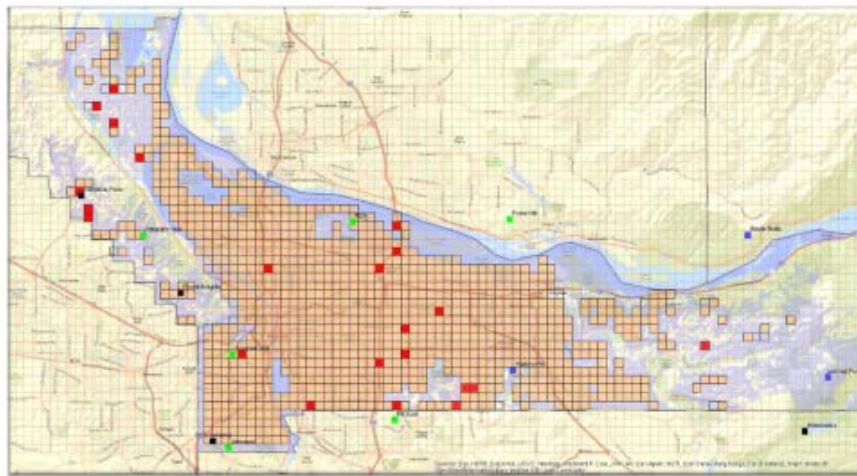
This map shows the location of the 14 primary radio tower sites.

An E or W on the site pin indicates the simulcast loop of the site. A dot indicates the site is an augmentation, or fill-in, site.

As a side note, cellular coverage could require upwards of 85 sites to provide similar coverage to the same area.

The table below lists the primary tower sites along with some descriptive information and what was upgraded to ready the site for the new P25 radio equipment.

Site Name	Tower Height (ft)	Owned / Leased	System Role	Building Upgrades	Tower Upgrades	Microwave Upgrade	Generator, Propane Capacity and/or UPS	Site Power and/or Battery Back Up	Air Conditioning Upgrade
BOEC	n/a	Owned	Master/Prime site			M			
Arrowood	120	Leased	West Simulcast			M	G,P	SP, B	AC
Biddle Butte	65	Leased	East Simulcast	Replaced shelter		M	G	B	
Cornelius Pass	30	Leased	ASR			M		B	
Council Crest	440	Owned	West Simulcast, Geo-redundant prime site			M	G,U	B	AC
Forest Heights	120	Leased	ASR			M			
Goat Mountain	85	Leased	ASR			M			
Headworks	180	Owned	ASR			M			
Lookout Point	180	Owned	East Simulcast	Added 2 nd shelter		M	G,P	B	
Mt. Scott	140	Leased	West Simulcast		Extensive upgrades to base, tower, and storm grounding			B	
Portland Community College (PCC)	120	Owned	ASR			M			
PDX	46	Leased	West Simulcast			M		B	
Prune Hill	67	Leased	West Simulcast	Replaced by owner		M	G,P	B	
Willalatin Tank	180	Owned	West Simulcast	Added 2 nd shelter		M	G,P	SP, B	
Walters Hill	68	Owned	East Simulcast	BTS completed a complete site replacement: New building, tower and all supporting equipment on this site.					



This map shows the results of the physical coverage testing within the primary coverage area for the radio system. As shown, 22 of 1062 tiles (indicated in red) are areas that fell below 97% coverage threshold in either talk or receive mode of a new APX mobile radio. Each tile is .4 of a mile. (Colored points are antenna/tower sites.) Blank areas in the map indicate areas that could not be accessed or ones that did not meet the coverage "test tile" criteria.



Public safety emergency radio system
 Financial status report for independent citizen committees
 MFCP/S00002 and S00008

Account	Description	Current budget	LTD actuals Mar 2016	S00002 Stabilization		S00008 Replacement		LTD actuals (through Jun 2016) after closing	Remaining balance*
				Apr/May/Jun Expenses					
Requirements									
511100	Full-time Employees	\$1,233,466	\$1,194,950	\$0	\$53,964			\$1,248,914	(\$15,448)
511300	Part-time Employees	\$37,602	\$651	\$0	\$0			\$651	\$36,951
512000	Overtime	\$706	\$706	\$0	\$0			\$706	\$0
513000	Premium Pay	\$44	\$260	\$0	\$13			\$273	(\$229)
514000	Benefits	\$413,707	\$391,110	\$0	\$20,294			\$411,404	\$2,303
610010	Labor Allocation	\$2,471	\$2,471	\$0	\$0			\$2,471	\$0
Total	Personnel Services	\$1,687,996	\$1,590,148	\$0	\$74,271			\$1,664,419	\$23,577
521000	Professional Services	\$16,825,865	\$12,108,960	\$0	\$77,971			\$12,186,931	\$4,638,934
522000	Utilities	\$0	\$0	\$0	\$0			\$0	\$0
523000	Equipment Rental	\$46,448	\$2,498	\$0	\$0			\$2,498	\$43,950
524000	Repair & Maintenance Services	\$24,559	\$24,558	\$0	\$24,901			\$49,459	(\$24,900)
529000	Miscellaneous Services	\$1,981,231	\$2,167,622	\$0	\$29,991			\$2,197,613	(\$216,382)
531000	Office Supplies	\$700	\$700	\$0	\$0			\$700	\$0
532000	Operating Supplies	\$17,848,055	\$18,002,152	\$0	\$0			\$18,002,152	(\$154,097)
532350	Computer Supplies - software	\$1,350,920	\$10,918	\$0	\$46,826			\$57,744	\$1,293,176
532355	Computer Supplies - hardware	\$1,476,669	\$17,1519	\$0	\$37,593			\$209,112	\$1,267,558
533000	Repair & Maintenance Supplies	\$290,036	\$36	\$0	\$0			\$36	\$290,000
534000	Minor Equipment & Tools	\$1,232,862	\$1,462,043	\$0	\$337,883			\$1,799,926	(\$567,064)
535000	Clothing & Uniforms	\$0	\$0	\$0	\$0			\$0	\$0
539000	Other commodities (external)	\$308	\$309	\$0	\$0			\$309	(\$1)
541000	Education	\$5,000	\$20,000	\$0	\$0			\$20,000	(\$15,000)
542000	Travel (In-town/Out-of-town)	\$41,787	\$36,786	\$0	\$2,682			\$39,468	\$2,319
544000	Space Rental	\$0	\$0	\$0	\$0			\$0	\$0
548000	Operating Lease	\$0	\$0	\$0	\$0			\$0	\$0
549000	Miscellaneous	\$11,834	\$12,284	\$0	\$0			\$12,284	(\$450)
Total	External Materials & Services	\$41,136,274	\$34,020,385	\$0	\$557,846			\$34,578,231	\$6,558,043
629011	Bureau Services 1	\$0	\$0	\$0	\$17,457			\$17,457	(\$17,457)
651100	Fleet Services	\$23,254	\$85,579	\$0	\$1,346			\$86,925	(\$63,671)
651200	Printing & Distribution	\$234	\$234	\$0	\$0			\$234	\$0
651300	Facilities Services	\$116,394	\$119,098	\$0	\$8,622			\$127,720	(\$11,326)
651400	EBS Services	\$0	\$0	\$0	\$0			\$0	\$0
651500	Technology Services	\$2,485,764	\$1,986,878	\$0	\$220,785			\$2,207,663	\$278,101
651600	Insurance	\$0	\$0	\$0	\$0			\$0	\$0
652000	Bureau to Bureau Interagencies	\$45,783	\$47,134	\$0	\$0			\$47,134	(\$1,351)
Total	Internal Materials & Services	\$2,671,429	\$2,238,923	\$0	\$248,210			\$2,487,133	\$184,296
563000 / 599630	Capital Equipment	\$516,435	\$224,815	\$0	\$431,187			\$656,002	(\$139,567)
Total	Capital Outlay	\$516,435	\$224,815	\$0	\$431,187			\$656,002	(\$139,567)
551000	Debt Retirement	\$0	\$0	\$0	\$0			\$0	\$0
555000	Debt Interest	\$0	\$0	\$0	\$0			\$0	\$0
557000	Debt Issuance	\$0	\$0	\$0	\$0			\$0	\$0
571100	General Operating Contingency	\$4,175,000	\$0	\$0	\$0			\$0	\$4,175,000
573000	Equipment Cash Transfers	\$0	\$0	\$0	\$0			\$0	\$0
650010 / 589961	General Fund Overhead	\$0	\$0	\$0	\$0			\$0	\$0
650020 / 589964	Other Cash Transfers	\$0	\$0	\$0	\$0			\$0	\$0
Total	Other	\$4,175,000	\$0	\$0	\$0			\$0	\$4,175,000
Grand Total		\$50,187,134	\$38,074,271	\$0	\$1,311,513			\$39,385,784	\$10,801,349
Resources									
GO bonds		\$37,028,719	\$30,621,357	\$0	\$1,283,930			\$31,905,287	\$5,123,432
Sale of Shelter		\$15,000	\$15,000	\$0	\$0			\$15,000	(\$15,000)
Project cash		\$13,158,415	\$7,437,914	\$0	\$27,583			\$7,465,497	\$5,692,918
Total		\$60,187,134	\$38,074,271	\$0	\$1,311,513			\$39,385,784	\$10,801,350