



John Muench
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Richard J. Daley Center
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RE: Richard J. Daley Center
Project Number: 13060/ PS1836
Notice to Proceed: Task Order - Daley Center Video Project

Mr. Muench,

Your Task Order Daley Center Video Project was received by the PBC and its reviewers on 01 Mar 2012. TODaley Center Video Project has been approved and this letter is to serve as the Public Building Commission's Notice to Proceed with the above referenced project. All terms and compensation are as per the Contract except as specifically modified herein.

Motorola Solutions will upgrade the existing camera surveillance system and install a Genetec Video Management System. This enhancement will include the addition of ~~60~~ cameras installed ⁶¹ in the Lobby, Plaza, Concourse and Lower Level to provide coverage of areas designated by the Elert and Associates Security and Risk Assessment and shown on the attached drawings ("drawings"). Video from these cameras will be viewable in the Daley Center Command Center and will be federated to three (3) Cook County Agencies: OEMC, Cook County Sheriff's Office and Cook County Office of Homeland Security. Motorola will design, furnish and install a Command Center utilizing Room CL-132 for Daley Center Security. The Command Center will allow two security personnel 24 hour viewing of the newly installed cameras. See attached Task Order Daley Center Video Project dated 01 Mar 2012 for further detail.

Please be advised that the start date for this Task Order is as indicated by the date of NTP issuance and the end date for this Task Order shall occur 70 calendar days from NTP issuance.

It is understood that the Motorola fee of \$740,889.00 will cover the services as described in TODaley Center Video Project dated 01 Mar 2012.

We look forward to working with your firm on this project.

Sincerely,

Kevin Holt
Director of Development

Rusty Castillo
Procurement

File Code 13060-03-08-12-01
Attachments TODaley Center Video Project
cc: Jerry McGleam, PBC
Ivan Hansen, PBC

Chairman
RAHM EMANUEL
Mayor
City of Chicago

Executive Director
ERIN LAVIN CABONARGI

Richard J. Daley Center Video Project

This Task Order is effective as of March 1, 2012, and is by and between the Public Building Commission of Chicago, a municipal corporation and unit of local government existing under the Constitution of the State of Illinois (“PBC”) on behalf of itself and the City of Chicago, a municipal corporation and home rule unit of local government existing under the Constitution of the State of Illinois (the “State”) and Motorola Solutions, Inc., a Delaware corporation (“Vendor” or “Motorola”) and is issued under and is subject to the terms and conditions set forth in the Master Agreement, dated January 19, 2011, between the PBC and Vendor (the “Agreement”), except as noted below and is incorporated by reference therein. All capitalized terms not defined herein shall have the meaning set forth in the Agreement.

RECITALS

A. The Agreement provides that Services, and Goods and Software must be authorized in writing in a Task Order that describes with particularity such Services, and Goods and Software, together with any Deliverables, a timetable for delivery, and other specific commercial terms and conditions regarding such Services, Goods and Software, including the applicable Fees.

B. The PBC desires that Vendor provide certain Services, Goods and Software in connection with the project in accordance with the Agreement and as set forth herein, and Vendor desires to provide such Services, Goods and Software in accordance with the Agreement and as set forth herein.

C. Vendor is solely responsible for successful completion of all work (regardless if performed by a subcontractor), customer satisfaction and any remediation required.

NOW, THEREFORE, in consideration of the foregoing premises and the mutual covenants set forth below, the Parties agree as follows:

ARTICLE 1. TASK ORDER AND NOTICE TO PROCEED

Upon execution of this Task Order by the Executive Director or by the Authorized Commission Representative if this is an Emergency Task Order, Vendor may commence performance of the Services set forth in this Task Order

ARTICLE 2. ASSUMPTIONS

2.1. Overview

The Parties acknowledge and agree that they have entered into this Task Order based on the assumptions stated in this Article 2.2 (the “Assumptions”), and that they will negotiate in good faith adjustments to this Task Order (i) pursuant to the Change Control Process to the extent deviations in the Assumptions have a direct impact on the Goods, Software and

Services or (ii) as otherwise provided in this Article 2.2. Vendor agrees that if an Assumption is not true, Vendor will promptly notify the PBC in writing and use commercially reasonable efforts to mitigate any adverse impact on the Goods, Software and Services and any potential increase in the Fees. Vendor agrees that these Assumptions are the only assumptions regarding the Services under this Task Order.

2.2. Assumptions

1. Vendor will primarily provide Services under this Agreement during first and third shifts, Monday through Friday, except national holidays, unless otherwise mutually agreed. Services labor pricing has been based upon the above operating hours.
2. Written approval in the form of a Notice to Proceed must be received prior to starting any work or ordering any material for this project.
3. The services will be performed at locations in Chicago, Illinois.
4. Motorola may utilize subcontractors to staff some of this engagement.
5. Delivery of Goods and Software is dependent upon availability from the manufacturer. In the event that availability through the normal ordering process does not meet the needs of MB Real Estate Services LLC, the Change Control Process may be used to procure the Goods and Software through other channels. If it is determined that those components may not be available through the contract period, Motorola will review this with MB Real Estate Services LLC to determine alternate solutions.
6. All changes to the Goods or the Services for such Goods will be processed through the Change Control Process.
7. Pricing does not include any labor oversight necessary for PBC sister agencies.
8. Motorola will utilize existing building power from the optimal source at the installation locations.
9. This construction schedule will begin after all approved engineered construction installation drawings have been delivered, received and reviewed with Motorola and the appropriate parties such as MB Real Estate Services LLC ("MBRE"), Public Building Commission of Chicago, the Office of Emergency Management and Communications, and the Cook County Sheriff and any other entities that have jurisdiction in the work area.
10. Command Center pricing is based off of design included with this proposal dated December 29, 2011 and any modifications shall be treated as a change order.
11. Room CL-132 will be empty of all equipment and debris.
12. Cook County standards will be followed per: Patch Panel Specifications 4.0.1.1 and 4.0.1.2, Equipment in Racks 4.0.2.1, 4.0.2.2, 4.0.2.3, 4.0.2.5 and Equipment Rack Standard 4.0.3.2.
13. MSI will be able to use existing chase in the building to run new cables, switched, patch panels and to an adjacent location on Lower Level, Concourse and First Floor to locate network CRE's.
14. MSI will be able to connect to the existing OEMC fiber in Room 2766.

15. MSI will locate the video & storage array servers in room CL-127
16. MSI will be able to install new racks into room CL-127 for the Motorola Video Network Equipment
17. MSI assumes there is sufficient power in CL-127 to support all newly installed MSI equipment. MSI will assess the power upon NTP and any changes necessary will be via a Change Order.
18. Daley Center and Cook County Building are currently connected directly and use multimode fiber with LC connectors.
19. Daley Center and OEMC currently connected indirectly and use multimode fiber with LC connectors.
20. Daley Center and Department of Homeland Security connected directly and use multimode fiber with LC connectors
21. Current Legacy System used at the Daley Center, Cook County, OEMC and Department of Homeland Security is Cisco.
22. MSI will remove all existing cameras. Where cameras are removed and not replaced by a new camera – cables will be pulled from conduit and ceiling will be patched/painted, as needed. Existing cameras will be returned to MBRE.
23. Four user groups will require access to various cameras: Daley Center Security, Cook County Sheriff, Cook County Department of Homeland Security and the OEMC.
24. Cameras will provide: 30 days of video storage, desired frame rate to capture video will be 30fps and the desired stream type is H.264.
25. Lockup cameras will be password protected and only be accessible to the Cook County Sheriff.
26. There are known environmental conditions in this facility including asbestos. This task order includes asbestos-related controls during camera installation including the services (air sampling, respirators, medical evaluation and training) and supervision of an outside environmental consultant.
27. PBC/MBRE will receive equipment shipped from MSI and provide a locked staging room that MSI can utilize prior to and during installation.
28. PBC/MBRE will provide access for MSI and subcontractors when/where needed during installation. MSI and subcontractors will adhere to building protocols for security and dock access.

2.3. PBC Responsibilities

1. The PBC will perform its obligations under the Master Agreement
2. The PBC will provide a PBC Project Manager. The PBC Project Manager's responsibilities include:
 - A) Serve as the interface between Motorola Solutions and MB Real Estate Services LLC.
 - B) Designate one individual as the person that will be responsible for executing the deliverable acceptance procedure and the person will be named within five (5) days of contract execution.
 - C) Adhere to the Change Control Process with the Motorola Solutions Project Manager.
 - D) Attend Project status meetings.
 - E) Help resolve Project issues and escalate issues
 - F) Coordinate with MBRE, Cook County Sheriff, Homeland Security and the OEMC as required on project activities in which Motorola Solutions requires input or output.

ARTICLE 3. SCOPE OF SERVICE

DESIGN OVERVIEW

Motorola will enhance the security at the Richard J. Daley Center (“Daley Center”) by upgrading the existing camera surveillance system and installing a Genetec Video Management System. This enhancement will include the addition of 61 cameras installed in the Lobby, Plaza, Concourse and Lower Level to provide coverage of areas designated by the Elert and Associates Security and Risk Assessment and shown on the attached drawings (“drawings”). Video from these cameras will be viewable in the Daley Center Command Center and various cameras will be federated to three agencies: OEMC, Cook County Sheriff’s Office and Cook County Office of Homeland Security.

In conjunction with the enhancement of the security system, Motorola will design, furnish and install a Command Center utilizing Room CL-132 for Daley Center Security. The Command Center will allow two security personnel 24 hour viewing of the newly installed cameras.

INTERIOR CAMERA INSTALLATION

Motorola will install the following cameras in the lower level, concourse level and lobby:

Axis Fixed Dome Indoor Camera with Mounting	40
Axis Indoor Mini PTZ Camera with Mounting	1
Axis Exterior Vandal Dome with Mounting	4

- Camera Installation Locations per attached drawings:
 - **Interior Fixed:**
 - Lower Level: 3, 4, 7, 8, 19, 12, 21
 - Concourse Level: 01, 03, 04, 05, 08, 11, 12, 16, 20, 22, 26, 27, 28, 29, 30, 31, 32, 33, 40
 - 1st Floor: 7, 10, 14, 15, 16, 17, 18, 19, 20, 23, 24, 26, 27, 29
 - **Mini PTZ** - CL36
 - **Exterior Vandal Dome** - CL13, 14, 18 and 19
- All penetrations will be approved by MBRE prior to coring.
- IP cameras will connect to a POE Camera CRE which will provide power and video network connectivity.
- Each network switch will have two (2) multi-mode transceivers modules that will provide redundant connectivity to the MDF in room CL-127.
- Each CRE enclosure will have backup UPS power and a 14 port input power strip for distribution to internal switches, POE injectors, external power supplies and transcoder equipment.
- The Vandal Dome cameras will be installed in the Sheriff’s lockup area. Access to video from these cameras will be viewable only to the Sheriff’s office.

EXTERIOR CAMERA INSTALLATION

Motorola will install/mount the following equipment on the Daley Center Building (per drawings) to provide video coverage of the exterior plaza area:

Axis Outdoor PTZ Camera with Mounting	9
Axis Exterior Vandal Dome with Mounting	7

- Camera Installation Locations per attached drawings:
 - PL-01, 02, 03 , 04, 05, 06, 07, 08, 09, 10, 11, 12, 13,
 - CL-38, 52, 55
- Install lightning suppressor between camera and network switch
- Install External POE injector per camera and run CAT6 cable to switch and power to power strip
- Install one (1) Cat6 Cable Homerun from POE injector in IDF to Camera
- Furnish new conduit and CAT6 cable necessary from IDF to camera location.
- All penetrations will be approved by MBRE prior to coring.
- All penetrations will be mortared and sealed to prevent water infiltration.
- All mortared and sealed openings will match building color and be approved by MBRE prior to installation.

INTERCOM VOICE SYSTEM

An IP intercom system will be installed in four outdoor stairwells into the Daley Center to allow security personal the ability to announce messages remotely from the command center.

- Mount outdoor supplied intercom on wall using supplied mounting hardware (per drawings)
- Provide 3c/18awg Shielded Cable from Stairwell location to closest IDF
- Mount IPW-1A intercom module in IDF and connect power supply
- Terminate 3c/18awg Shielded Cable at intercom unit
- Terminate 3c/18awg Shielded Cable to IPW-1A in IDF
- Assign IP and Network Address to all equipment
- Install intercom software on Client stations

INTERMEDIATE DISTRIBUTION FRAME (IDFs)

Motorola will install and configure the following throughout the building to establish the video network infrastructure:

48" Net Series Communication and Server Cabinet	7
POE Cameras	
• Cisco POE Switch	1
• Cisco MM Transceivers	2
• Multimode 6 port Patch panel	1
• Smart LCD 1500VA /120V UPS	1
• CAT6 patch Panel	1
• Single Phase Basic PDU	1
• Enclosure to support cameras	1
Non POE	
• Cisco L Switch	1
• Cisco MM Transceiver	2
• Cat6 Port Patch Panel	1
• Multimode 6 Port Patch Panel	1
• Video Server / Transcoder	1
• Power Supply	1
• Shielded Power Cable	1
• Smart LCD 1500VA /120V UPS	1
• Single Phase Basic PDU	1
• Enclosure to support cameras	1

IDF POWER SUPPLY

Motorola will complete the following scope of work for the IDFs:

- Install One IDF and a camera power supply per location per drawings. Two (2) IDF's per floor (except lobby floor) will be located on the north and south areas of the building.
- Install conduit raceway between IDF and camera power supply
- Install one dedicated 120Vac 20Amp circuit from an existing electrical panel to each IDF enclosure and the camera power supply.
- Install one quad receptacle will be mounted in each IDF.
- Install one dedicated 6-strand fiber between each IDF and Network Room CL-127.
- All assigned cameras will be homerun using CAT6 from IDF to field locations per drawings.
- Install conduit raceway to support all CAT6 cables from assigned cameras per drawings.
- Install conduit raceway for fiber from enclosure to CL-127 per drawings.
- Terminate and test CAT6 from IDF to Cameras.
- Terminate and test all fiber strands from IDF to CL-127.
- Install furnished network and power equipment.
- Install encoders and patch cables.

LAN ROOM - CL127

All installations in CL127 will be approved in advance by MBRE and the Cook County Bureau of Technology.

Motorola will complete the following scope of work in Room CL127:

- Install two (2) 42U racks
- Install raceway necessary to supply each cabinet with two 120Vac 20amp circuits
- Install network equipment consisting of patch panels and miscellaneous
- Terminate fiber connections, test end to end and document test results
- Terminate CAT6 connections test end to end and document test results
- Install fiber and CAT6 patch cables
- Install and program one Pivot3 High Definition Raid Storage Archiver (36 Terabytes) with virtual server
 - Install and configure network card to communicate to a redundant network
 - Configure Genetec Archiver
 - Connect to network
- Install the following components into new racks:
 - One ESD (Electrostatic Discharge) port kits
 - One Cisco 24 port switch with fiber
 - One KVM Switch
 - One UPS
 - Two Single-Phase Basic PDU, 16A 100-240V, 1U horizontal rack mount, C13 & C19 outlets and C20 inlet
 - One Cisco catalyst switch
 - One Cisco ultimode Hub Switch
 - One Intercom Central Exchange System

COMMAND CENTER

Motorola will design, furnish and install a Building Command Center in Room CL-132. The following is the scope of work that will be completed according to the design specifications on the Folgers Architectural drawings:

- Remove existing walls in the interior of the room
- Build out the east, north and south walls with raised drywall
- Paint room
- Replace existing dropped ceiling tiles with new tiles
- Install additional lighting
- Drop power and data to room per plans
- Run cable for workstations and monitors
- Installation of new HVAC duct within the room with a VAV box supply and return. Per MBRE may require Carnow monitoring.
- Procure and install window on north wall to view dock.
- Procure and install steel shutter per plans
- Remove south door and replace with brick to match on exterior of room
- Install console furniture to accommodate two operators
- Install monitors (two 55" and four 24")

Workstations

Motorola will install and program five (5) Dell workstations. In conjunction, Motorola will also install and configure the following:

- Windows 7 Operating System
- Genetec viewing workstation
- AiPhone intercom software on one workstation
- Network card to communicate to a redundant network
- Motorola will then connect all to the network via one (1) POE Camera CRE.

Daley Center to OEMC Network

The Daley Center Video Network main distribution center will be located in the Daley Center room CL-127. In this location will be a switch which will provide the infrastructure for all IDF units to connect via a multi-mode fiber connection. The closest OEMC IDF is located in the City Hall building 221 N. LaSalle in a data closet on the 6th floor. In order for the Daley Center Video Network to connect into the OEMC network, the following requirements are necessary:

CL-127 – Daley Center Net POP

- Install one gigabit multi-mode transceiver module into the new Daley Center Video Network
- Install a 1 pair multi-mode jumper with LC connectors between the switch and multi-mode patch panel
- Connect 2 strands of multi-mode fiber with LC connectors on both ends from the Cisco switch in room CL-127 to the multi-mode patch panel in the New Daley IDF in the Computer Operations Center - room 2766 on the 27th floor.

New Daley Center IDF in Room 2766

- MSI will receive installation approval in advance for all work to be performed in Room 2766 from MBRE and the Department of Innovation & Technology (“DoIT”).
- Install a new IDF floor rack in room 2766 next to the existing Rack #1 located in general area near FOOP #1
- Install one (4) port single-mode patch panel to support SC jumper connectors
- Install one (4) port multi-mode patch panel to support LC jumper connectors
- Install one Cisco switch with 24 port POE and 4 open GBIC modules
- Install one gigabit multi-mode transceiver module with LC ports
- Connect a 1 pair multi-mode jumper from the multi-mode patch panel where the CL-127 connection is established to the gigabit multi-mode transceiver on the Cisco switch
- Install one gigabit single-mode transceiver module with SC ports
- Connect a 1 pair single-mode jumper from the gigabit single-mode transceiver on the Cisco switch to the single-mode patch panel
- Connect a 1 pair single-mode jumper from the patch panel or switch to the existing FOOP #1 located on the wall near existing Rack #2.

6th Floor Data Closet – City Hall 221 N. LaSalle

- MSI will receive installation approval in advance for all work to be performed in the 6th Floor Data Closet from MBRE and the OEMC.
- Confirm fiber connectivity and attenuation between FOOP #1 located in Daley Center room 2766 and the FOOP #1 located in the data closet on the 6th floor in City Hall.
- Install one gigabit single-mode transceiver module with LC ports in the existing OEMC Cisco 4GE SSM switch on link #2 or link #3.

- Connect a 1 pair single-mode jumper with SC to LC connectors from the FOOP #1 patch panel to the existing OEMC Cisco 4GE SSM switch link #2 or link #3.

TECHNICAL RESOURCE HOURS

Vendor will supply technical resource(s) for configuration of up to 61 cameras and integration into a solid redundant video management network between IDF's, NET POP, Servers and Client workstations. We will add additional flexibility by configuring the Cisco switches to use Rapid Spanning Tree to minimize the fail over time.

Design Documentation

- Create network equipment inventory list with IP schema, naming convention and password
- Create system design documents for both wired and wireless systems
- Create video data analysis and bandwidth analysis document
- Create network design document for connectivity to Daley Center, Cook County Sheriff, OEMC, and Department of Homeland Security
- Create command center workstation and video wall setup and configuration document
- Create system installation document

Network Equipment

- Setup and configure IP addresses for all switch to communicate a dual network
- Setup and configure IP addresses for all wireless access points and bridges
- Setup and configure IP addresses for iPhone network adapters

Camera Equipment

- Setup and configure IP addresses for on digital cameras
- Setup IP address for all network video server transcoders for analog cameras
- Configure each camera for optimized imagery adhering to bandwidth requirements

Application Server / Genetec Omnicast Video Management System

- Install and Configure KVM switch
- Configure Windows Server 2008
- Setup and configure NIC card to communicate a dual network
- Configure Genetec Directory and Gateway
- Configure OEMC Genetec Omnicast Video Management System for 60 cameras.
- Configure user, group and accessibility for Daley Center, Cook County Sheriff, OEMC, and Department of Homeland Security
- Confirm restricted access camera per user & group
- Configure Camera parameters in Genetec Omnicast Video Management system per Daley Center Requirements, including camera management, recording, bit rate, frame rate, presets, and analytics

Raid Server Equipment

- Configure Windows Server 2008
- Setup and configure NIC card to communicate a dual network
- Configure Genetec Achiver and storage management

Workstations

- Configure Windows 7 Operating System to be optimized for Multiple Video Outputs
- Install and Configure Dual Network Adaptors to communicate to a dual network
- Install and configure Genetec Viewing per monitor to Daley Center specification
- Install and configure iPhone intercom system software to communicate to (4) Door locations

Provide a minimum of two (2) 4-hour sessions of Technical training for designated MBRE and Cook County Sheriff's Office representatives. Training shall include system programming, operation and maintenance procedures and delivery of manuals.

ARTICLE 4. COMPLETION CRITERIA

Motorola Solutions will perform functional testing after installation to ensure cameras are viewable via the Genetec Omnicast Video Management system. Testing will include:

- Verification of conductivity between camera and Genetec Omnicast Video Management System. A ping will be initiated from the Genetec Omnicast Video Management System to the camera.
- Verification of camera configurations as established by existing standards for camera deployment. Video will be viewed via Genetec Omnicast Video Management System.
- Verification of ability to record and retrieve video. After the camera has been connected to the network recorded video will be viewed. This test will occur at least 24 hours after installation and configuration in Genetec Omnicast Video Management System.

This task order will be complete when all cameras and components are installed, tested and a video is viewable on the Genetec Omnicast Video Management System in the Command Center and Motorola receives PBC/MBRE acceptance signoff.

ARTICLE 5. DELIVERABLES

Motorola will provide the following within three (3) weeks of receiving a Notice to Proceed from the PBC:

- Initial Project Plan which includes a Timeline, Project Tasks and Project Milestones. This plan will be reviewed during the project kick-off meeting with MBRE and mutually agreed to changes will be incorporated.
- Preliminary drawings
- Installation schedule
- Certificate of Insurance (“COI”) from all subcontractors in accordance with MBRE’s requirements
- Asbestos Containing Material (“ACM”) acknowledgement letters from all subcontractors performing work in the building
- Site specific safety plan

The following items will be provided per the project schedule:

- Commissioning Acceptance
- Cut Sheets
- Final Power & data drawings
- Project Directory

Initial drawings and cut sheets for Landmark approval will be submitted as soon as they are complete.

ARTICLE 6. ON SITE MAINTENANCE

All devices procured by Motorola in this Task Order include a 3 year manufacture warranty.

- On-site support included in this Proposal is for 12 months from acceptance. Additional years are available upon request.
- Task Order includes Onsite response to all items sold or installed under this Task Order.
- Customer will notify Motorola per the Customer Support Plan which will be provided upon completion of the acceptance of the installation.
- Cases can be opened with the Motorola System Support Center 24 hours a day, 7 days a week. Cases will only be paged out Monday through Friday, 8:00am through 5:00pm.
- Normal on site response will be within 24 hours once the case with Motorola has been opened (Monday through Friday, 8:00am to 5:00pm).
- This Task Order does not include support on any legacy equipment or wiring.
- A manufacture warranty only is provided on the UPS and Intercom equipment, any additional repairs will be completed on a Time and Material basis.
- If required, software maintenance and support services may be quoted separately upon request.
- Normal operating voltages are assumed for operation on all devices when service call is created. Response to outages caused by Host Power issues will be considered outside of warranty.
- Physical damage, acts of God, or other damage not considered normal wear and tear will be considered outside of warranty.
- Spare parts are not included in the Task Order. All spare parts will be provided by customer. If spares are not readily available at the time of the service call, the item will be removed and sent back to the manufacture for repair. Repair cycle time varies on equipment.
- There are no maintenance reports or maintenance deliverables requested with this Proposal. An option for reports will be provided under separate cover to MBRE.

APPENDIX ITEMS

Insurance

Unless stated otherwise in this task order, no additional insurance coverage, limits, or evidence of the same; other than that previously provided by Motorola, shall be required.

Sub-Contractors

The following subcontractors will perform work pursuant to this Task Order.

- A) Cable Communications
- B) HBK
- C) Bear Construction
- D) Carnow Conibear

Execution of this Task Order by the Commission shall be evidence of the Commission's approval of use of the subcontractors by Motorola.

Pricing Detail

Resource		Rate	Hours	Total
Professional Services				
Project Manager	Onsite Installation Support, Securing Materials, Coordinating Subcontractors, Project Administration and Close Out	\$ 200.00	192	\$ 38,400
Network Engineering	Field Surveys, Ordering Equipment, Onsite Installation Support, Optimization and Configuration	\$ 200.00	136	\$ 27,200
Video Architect	Video Management System Camera Integration	\$ 210.00	44	\$ 9,240
IT Specialist	Assembly, Configuration, Testing	\$ 103.00	116	\$ 11,948
Electrical Engineer	Data/Power, Existing Facility Research, Site Walks and Drawings	\$ 150.00	30	\$ 4,500
CAD Technician	Record Drawing	\$ 85.00	204	\$ 17,340
Payment System Fee				\$ 1,706
Sub Total Professional Services				\$ 110,334
Camera Installation Services – Local 134				
A - card Journeyman	1st Shift	\$ 132.00	80	\$ 10,560
A - card Journeyman	3rd Shift	\$ 151.00	160	\$ 24,160
A - card Foreman	Straight Time	\$ 141.00	80	\$ 11,280
A- card Foreman	3rd Shift	\$ 162.00	120	\$ 19,440
A - card General Foreman	Straight Time	\$ 157.00	100	\$ 15,700
A - card General Foreman	Time & a Half	\$ 228.00	40	\$ 9,120
A - card General Foreman	3rd Shift	\$ 181.00	80	\$ 14,480
C - card journeyman	1st Shift	\$ 109.00	80	\$ 8,720
C - card journeyman	3rd Shift	\$ 125.00	120	\$ 15,000
C - card Foreman	1st Shift	\$ 113.00	80	\$ 9,040
C - card Foreman	3rd Shift	\$ 131.00	120	\$ 15,720
6 additional cameras				\$ 11,250
Sub Total Installation Labor				\$ 164,470
Additional Services				
Assistant Project Manager		\$143	52	\$ 7,436
Architect				\$ 13,689
Command Center & CL127 Equipment Installation				\$ 13,071
Storage/Server Setup, Virtual Server and Optimization				\$ 2,941
Command Center Upgrade				\$ 95,698
Command Center Furniture				\$ 11,382
Miscellaneous: Patching and Painting (up to ten 12x12 areas), Scissor Lifts and Camera Retouches				\$ 22,381
Environmental - Consulting, Testing, Asbestos Gear and Job Cost Impact				\$ 56,041
OEMC Fiber Installation – 27 th Floor				\$ 17,647
Sub Total Additional Services				\$ 240,286
Installation Materials				
Per Installation Materials List				\$ 30,085
Equipment				

Per Equipment List	\$ 180,409
One year - Onsite Warranty	\$ 16,999
Insurance Floater	\$ 807
TOTAL	\$ 740,889

Option**OPTIONS**

Redundancy Equipment	\$ 38,726.61
Redundancy Installation – labor and network engineer hours not yet figured	

Total Funding Requirement: \$740,889

Start Date: Date of NTP Issuance

Substantial Completion: 70 calendar days after NTP

Payment Schedule: Financial Terms are contingent upon the parties' agreement in writing to the contract terms and conditions currently under review.

Equipment List

Manufacturer	MFG Part #	Description	QTY	Unit Price	Extended Price
AiPhone	IE-SSR	Weather Proof Door Station w/ Stainless Steel Flush Mount	4	\$229	\$916
AiPhone	IPW-1A	Network Intercom Adapter with Software	4	\$416	\$1,662
AiPhone	SBX-2G	Intercom Enclosure - Surface mount 2-gang SS	4	\$88	\$353
Axis	P3304-V	Interior Fixed	40	\$665	\$26,604
Axis	5005-061	Vandal-resistant casing with smoked transparent cover (P3304-V Camera)	40	\$100	\$4,011
Axis	P3346-VE	Exterior Vandal Fixed Dome	11	\$1,124	\$12,365
Axis	T91A61	Wall Bracket Includes mounting plate - White	11	\$91	\$1,002
Axis	5502-321	3346-VE Series Pending Kit	2	\$45	\$90
Axis	25736	Gooseneck Wall Mount	22	\$91	\$2,004
Axis	216FD	Pendant Kit	22	\$45	\$992
Axis	M5014PTZ	Indoor Mini PTZ Dome - Ceiling Mount	1	\$539	\$539
Axis	Q6034-E	Outdoor PTZ Dome	9	\$2,879	\$25,912
Axis	T91A21	Wall Mount	1	\$27	\$27
Axis	T91A67	Pole Bracket for Outdoor PTZ	9	\$91	\$820
Cisco	ESW-520-24P-K9	24 port switch with Fiber (1 ADDITIONAL ADDED FOR LOCKUP)	9	\$868	\$7,815
Cisco	GLC-SX-MMD	Transceiver Module - Multimode (1 ADDITIONAL FOR LOCKUP)	12	\$410	\$4,920
Cisco	GLC-SX-SMD	Transceiver Module - Singlemode	3	\$816	\$2,448
Cisco	WS-C3750G-12S	Catalyst WS-C3750G-12S-12	1	\$6,556	\$6,556
Cisco	GLC-T GE SFP	GLC-T GE SFP, RJ-45 connector, 10/100/1000BASE-T transceiver	1	\$324	\$324
Cisco	GLC-SX-MM GBIC	Fiber Module	9	\$410	\$3,690
Cisco		Catalyst 3560-12PC	1	\$1,636	\$1,636
Dell	ACS1208AL	8 PORT SLIDEAWAY KVM SWITCH W/15INLCD KBRD AND TRACK BALL 1U	1	\$1,880	\$1,880
Motorola	600SSD	SURGE SUPPRESSOR	14	\$27	\$378

Genetec	Om-P-Base	Omnicast Pro software which includes: - Archiving support (Max. 100 cameras per Archiver) - 1 Gateway - 5 client/user connections - Maps/Procedures - Audio Support - Web Pack - 1 Virtual Matrix - Camera Sequences - Macros - 1 Keyboard connection - Alarm Management Module - Database Reporting - Edge recording and trickling support - Time Zone support - All languages supported	1	\$1,130	\$1,130
Genetec	Om-P-1C	1 camera connection	61	\$125	\$7,625
Genetec	Om-E-1FED	1 Federated directory	4	\$230	\$920
Genetec	SMA-BASE-1Y	SMA Base Package – 1 year	1	\$400	\$400
Genetec	SMA-CAM-P-1Y	SMA for 1 Omnicast Pro Camera – 1 year	61	\$35	\$2,135
Hoffman	NS12610	Net Series Communication and Server	8	\$1,098	\$8,786
HP	XZ989UT	Compaq Elite 8200 CMT 1xCORE i5 2400/3.1GHZ	5	\$799	\$3,994
Pny Tech	VCQ450NVS-X16	4 port Video Card PNY Quadro4	5	\$665	\$3,324
NEC	E552	55" Monitors	2	\$1,746	\$3,492
Peerless	ST650	Tilt Mount 50"	2	\$100	\$200
Pivot3		vSTAC Watch 36TB - Stackable Appliance	1	\$28,436	\$28,436
Pivot3	IEC320-C14	Power Cords-D (one per appliance)	1	\$0	\$0
Pivot3		vSTAC Manager	1	\$1,759	\$1,759
Pivot3		Windows Server 2008 64bit	1	\$1,156	\$1,156
Pivot3		Warranty	1	\$0	\$0
Pivot3		ProTech Support - 3yrs. 8x5 phone/email support, upgrades (except dot zero releases), next day parts onsite	1	\$0	\$0
RGESD-1		ESD (ELECTROSTATIC DISCHARGE) PORT KIT	1	\$20	\$20
Tripp		12 Outlet Power Distribution Unit 16amp 120V/240V 2 Circuit Breakers	15	\$171	\$2,559
Tripp		Lite Smart 1500 LCD 1500 VA UPS, LCS Display Smart Line Interactive 2U Rack/Tower	8	\$261	\$2,089
Viewsonic	VA2448M-LED	Viewsonic 24" Widescreen Monitors	4	\$295	\$1,181

	DSEZR4K-42U	19" SERVER RACK, EZRAK 42U, 600W X 1000D W/ ACCESSORIES (BLACK)	2	\$1,440	\$2,880
		HDMI Video Cables	8	\$45	\$360
Smart Pro	DSSMART 1500RML2U	UPS,1500VA SYS SMARTPRO RACK/TOWER EXTENDED RUN LINE-INT	1	\$1,020	\$1,020
Equipment Total					\$ 180,409

Installation Materials

Misc. Install	Fiber, CAT6, Conduit and miscellaneous	\$ 29,235
Consumables		\$ 850
Installation Materials Total		\$ 30,085

Equipment List for Redundancy Option

Manufacturer	MFG Part #	Description	QTY	Unit Price	Extended Price
Cisco	DQ1-30AHR5	CISCO2801 ROUTER	1	\$2,624	\$2,624
Cisco	ESW-520-24P-K9	Switch managed 24x/100+2x combo gigabit SFP =2x 10/100/1000 rack mountable	9	\$868	\$7,815
Cisco	GLC-SX-MMD	SFP mini GBIC Transceiver Module 1000 Base-SX LC/PC MM plug in module	12	\$410	\$4,920
Cisco	GLC-SX-SMD	SFP mini GBIC Transceiver Module 1000 Base-LH LC plug in module	3	\$816	\$2,448
Cisco	WS-C3750G-12S-12	12 port GIG Ethernet Switch w/ 12 SFP ports 1U	1	\$6,556	\$6,556
Cisco	GLC-T GE SFP	RJ-45 connector, 10/100/1000BASE-T transceiver	1	\$324	\$324
Cisco	GLC-SX-MM	GE SFP, LC Connector SX Transceiver	9	\$410	\$3,690
Cisco	WS-C3560-12PC-S	Switch L3 Managed 12x10/100+1x combo gigabit SFP desktop POE	1	\$1,636	\$1,636
HP	BCD360V-MS-S	VSS Video management server	1	\$9,313	\$9,313
Smart Pro	DSSMART 1500RML2U	UPS,1500VA SYS SMARTPRO RACK/TOWER EXTENDED RUN LINE-INT	1	\$1,020	\$1,020
Intel	PWLA8492MT	Network Adapter PCI-X Ethernet	0	\$242	\$0
Network Redundancy Option Total					\$40,345

Signature Page

In Witness Whereof, the Parties hereto have executed this Task Order RJDC as of the date first written above.

Agreed to:

Public Building Commission of Chicago

By: [Signature]
Authorized Signature

ERIN LANN CARONARZI
Name (type or print)

Date: 3.5.2012

Agreed to:

Motorola Solutions, Inc.

By: [Signature]
Authorized Signature

Scott Schoepel
Name (type or print)

Date: 3-9-2012

Approved by:
MB Real Estate Services

By: [Signature]
Authorized Signature

ORSTES RUFFIN
Name (type or print)

Date: 3.8.2012

Agreement Number: P51836

Task Order Number: RJDC

Vendor Office Address:

Motorola Solutions, Inc.
1301 E. Algonquin Rd.
Schaumburg, Illinois 60196

Customer Address:

The Public Building Commission of Chicago
50 W. Washington Street
Chicago, Illinois 60602

M/WBE

Contractor Estimate*	
Contractor	Motorola Solutions, Inc.
Task Order Number	RJDC
Project Title	Daley Center Video Project
Date	March 1, 2012
Estimate	\$740,889
Revised Estimate (with Change Order)	

Contractor	Duties	Trade	M/WBE Status	Ethnicity	Total \$	M/WBE \$	% of Project
Cable Communications	Supplier and Installer	S/M	W	Woman	\$740,889	\$391,000	53%
Note: Brief Description of Service Effected by Change Order							

Type	Amount	Percentage
Total MBE Subcontractor Participation Scheduled		
Total WBE Subcontractor Participation Scheduled	\$391,000	53%
Total M/WBE Subcontractor Participation Scheduled	\$391,000	53%

Type	Amount	Percentage
Total MBE African American Subcontractor Participation		
Total MBE Hispanic Subcontractor Participation		
Total MBE Asian Subcontractor Participation		

Key
Trades—S: Subcontractor; M: Material Supplier
M/WBE's—M: Minority; W: Women; N: Non-M/WBE

* The pricing elements included above are estimated prior to project completion

Frank Monteleone

Name (printed)



Name (signed)

March 1, 2012