



# AGENDA

## LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

BOARD OF DIRECTORS MEETING  
Thursday, September 8, 2016 • 9:00 a.m.  
Los Angeles County Sheriff's Department  
The Hertzberg Davis Forensic Science Center  
1800 Paseo Rancho Castilla, Garcia Conference Room #219B  
Los Angeles, CA 90032.

Los Angeles Regional Interoperable Communications System Authority (the "Authority")

### **AGENDA POSTED: September 1, 2016**

Complete agendas are made available for review at the designated meeting location. Supporting documentation is available at the LA-RICS Office located at 2525 Corporate Place, Suite 100, Monterey Park, CA 91754 during normal business hours and may also be accessible on the Authority's website at <http://www.la-rics.org>.

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#### **Members:**

1. **Sachi Hamai**, CEO, County of Los Angeles
2. **Daryl L. Osby**, Vice-Chair, Fire Chief, County of Los Angeles Fire Dept.
3. **Jim McDonnell**, Chair, Sheriff, County of Los Angeles Sheriff's Dept.
4. **Cathy Chidester**, Dir., EMS Agency, County of LADHS
5. **Chris Donovan**, Fire Chief, City of El Segundo Fire Dept.
6. **Larry Giannone**, Chief of Police, City of Sierra Madre Police Dept.
7. **Mark R. Alexander**, City Manager, CA Contract Cities Assoc.
8. **Mark Fronterotta**, Chief of Police, City of Inglewood Police Dept.
9. **Michael Langston**, Chief of Police, City of Signal Hill Police Dept.
10. **Kim Raney**, Chief of Police, City of Covina Police Dept.

#### **Alternates:**

**John Geiger**, General Manager, CEO, County of Los Angeles  
**Chris Bundesen**, Asst., Fire Chief, County of Los Angeles Fire Dept.  
**Dean Gialamas**, Division Dir., County of Los Angeles Sheriff's Dept.  
**Kay Fruhwirth**, Asst., Dir., EMS Agency, County of LADHS  
**Joe Ortiz**, Captain, City of Sierra Madre Police Dept.  
**Marcel Rodarte**, Executive Dir., CA Contract Cities Assoc.  
**Louis Perez**, Deputy Chief, City of Inglewood Police Dept.  
**Chris Nunley**, Captain, City of Signal Hill Police Dept.  
**David Povero**, Captain, City of Covina Police Dept.

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#### **Officers:**

**John Radeleff**, Interim Executive Director  
**John Naimo**, County of Los Angeles Auditor-Controller  
**Joseph Kelly**, County of Los Angeles, Treasurer and Tax Collector  
**Priscilla Lara**, Board Secretary



**NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA**

- I. CALL TO ORDER**
- II. ANNOUNCE QUORUM – Roll Call**
- III. APPROVAL OF MINUTES (A-B)**
  - A. July 7, 2016 – Regular Meeting Minutes (Revised)  
Agenda Item A
  - B. August 4, 2016 – Regular Meeting Minutes  
Agenda Item B
- IV. PUBLIC COMMENTS**
- V. CONSENT CALENDAR – (None)**
- VI. REPORTS (C-D)**
  - C. Director’s Report – John Radeleff
  - D. Project Manager’s Report – Chris Odenthal  
Agenda Item D
- VII. DISCUSSION ITEMS (E-F)**
  - E. Assessment of LA-RICS Deliverable  
Agenda Item E
  - F. Outreach Update  
Agenda Item F



**VIII. ADMINISTRATIVE MATTERS (G)**

**G. APPROVE AMENDMENT NO. 20 TO AGREEMENT NO. LA-RICS 007 FOR LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM – LAND MOBILE RADIO SYSTEM**

It is recommended that your Board:

1. Approve Amendment No. 20 (Enclosure) to Agreement No. LA-RICS 007 for a LMR System with Motorola Solutions, Inc. (Motorola), which revises the Agreement as follows:
  - a. Make changes necessary to reflect the reconciliation for nine (9) LMR System Sites to align with the updated LMR System Design for a cost increase in the amount of \$367,144.
  - b. Include 3D Modeling Work for certain LMR System Sites for a cost increase in the amount of \$6,534.
2. Remove Site Lease Exhibit Work for certain LMR System Sites and corresponding costs for a cost decrease in the amount of \$14,884.
3. Authorize an increase in the Maximum Contract Sum by \$358,794 ( $\$367,144 + \$6,534 - \$14,884$ ) when taking the cost increases and decreases into consideration from \$284,877,023 to \$285,235,817.
4. Allow for the issuance of one or more Notices to Proceed for the Work contemplated in Amendment No. 20.
5. Delegate authority to the Interim Executive Director to execute Amendment No. 20, in substantially similar form, to the enclosed Amendment (Enclosure).

Agenda Item G

**IX. MISCELLANEOUS – ACKNOWLEDGEMENT OF PATRICK J. MALLON**

**X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD**



**XI. CLOSED SESSION REPORT**

1. PUBLIC EMPLOYEE PERFORMANCE EVALUATION  
(Government Code Section 54957(b)(1))  
Title: Executive Director / Interim Executive Director
2. PUBLIC EMPLOYMENT  
(Government Code Section 54957(b)(1))  
Title: Executive Director / Interim Executive Director
3. CONFERENCE WITH LABOR NEGOTIATORS  
(Government Code Section 54957.6)

**XII. ADJOURNMENT and NEXT MEETING:**

Thursday, October 6, 2016, at 9:00 a.m., at the Los Angeles Sheriff's Department, Scientific Services Bureau, located at 1800 Paseo Rancho Castilla, Los Angeles, CA 90032.



## BOARD MEETING INFORMATION

Members of the public are invited to address the LA-RICS Authority Board on any item on the agenda prior to action by the Board on that specific item. Members of the public may also address the Board on any matter within the subject matter jurisdiction of the Board. The Board will entertain such comments during the Public Comment period. Public Comment will be limited to three (3) minutes per individual for each item addressed, unless there are more than ten (10) comment cards for each item, in which case the Public Comment will be limited to one (1) minute per individual. The aforementioned limitation may be waived by the Board's Chair.

*(NOTE: Pursuant to Government Code Section 54954.3(b) the legislative body of a local agency may adopt reasonable regulations, including, but not limited to, regulations limiting the total amount of time allocated for public testimony on particular issues and for each individual speaker.)*

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SI REQUIERE SERVICIOS DE TRADUCCION, FAVOR DE NOTIFICAR LA OFICINA CON 72 HORAS POR ANTICIPADO.

The meeting is recorded, and the recording is kept for 30 days.



# BOARD OF DIRECTORS MEETING MINUTES

LOS ANGELES REGIONAL  
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

July 7, 2016  
The Hertzberg Davis Forensic Science Center  
1800 Paseo Rancho Castilla, Conference Room 263  
Los Angeles, CA 90032

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**Board Members Present:**

**Cathy Chidester**, Director, EMS Agency, County of Los Angeles Department of Health Services  
**Mark R. Alexander**, City Manager, CA Contract Cities Assoc.  
**Kim Raney**, Chief of Police, City of Covina Police Dept.

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**Alternates For Board Members Present:**

**John Geiger**, General Manager, CEO, County of Los Angeles  
**Chris Bundesen**, Asst., Fire Chief, County of Los Angeles Fire Dept.  
**Dean Gialamas**, Division Dir., Sheriff, Los Angeles County Sheriff's Dept.  
**Louis Perez**, Deputy Chief, City of Inglewood Police Dept.  
**Chris Nunley**, Captain, City of Signal Hill Police Dept.

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**Officers Present:**

**John Radeleff**, LA-RICS Interim Executive Director

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**Absent:**

**Chris Donovan**, Fire Chief, City of El Segundo Fire Dept.  
**Larry Giannone**, Chief of Police, City of Sierra Madre Police Dept.



**I. CALL TO ORDER**

Director Dean Gialamas called the meeting of the Board to order.

**II. ANNOUNCE QUORUM – Roll Call**

Director Gialamas acknowledged that a quorum was present and asked for a roll call.

**III. APPROVAL OF MINUTES (A-D)**

**A.** March 29, 2016 – Special Meeting Minutes

**B.** April 7, 2016 – None – Board Meeting Cancelled

**C.** May 5, 2016 – Regular Meeting Minutes

**D.** June 2, 2016 – None – Board Meeting Cancelled

Director Gialamas asked for a motion to approve the March and May 2016 Meeting Minutes; Alternate Member Chris Bundesen motioned first, seconded by Alternate Member John Geiger.

Ayes 7: Chidester, Raney, Geiger, Bundesen, Gialamas, Perez, and Nunley

Abstained 1: Alexander (did not attend the May 5, 2016 meeting)

**MOTION APPROVED.**

**IV. PUBLIC COMMENTS – (None)**

**V. CONSENT CALENDAR – (None)**

**VI. REPORTS (E-F)**

**E.** Director's Report – John Radeleff

Interim Executive Director John Radeleff stated we closed the UASI 2011. This is the first time we have spent the full amount of funds during the grant period, which is a full expenditure of \$18 million.

Senate Bill 1008 for the CEQA extension is in process with the committees.



Interim Executive Director John Radeleff informed the Board of an invite to speak at the National Association of Counties Telecommunication and Technology Steering Committee at the Long Beach Convention Center on July 22nd.

The LTE Project extension has been approved through September 30, 2016. LA-RICS is waiting final approval from NTIA for Phase 2 and this will provide \$37 million for the BTOP grant funds.

In regards to the LMR Project, the USAI Approval Authority has approved commitment of \$105 million to complete the build out of the system. FEMA has issued the FONSI, and we have deployed equipment at eight (8) sites but were not able to build due to lack of the construction waver. As of last night we were advised by FEMA that they have approved our construction waiver for UASI 2013, 2014 and 2016. We are pending written verification.

#### F. Project Manager's Report – Chris Odenthal

Jacobs Program Manager Chris Odenthal stated for PSBN/LTE, Round 1 network is undergoing final testing. Sites begin final acceptance testing next week (5 week process). Close-out books are being delivered, although they are incomplete because of the Site Acceptance Tests. Round 2 Site selection is in progress with certain work pending this Board's approval of the Jacobs amendment. We currently have a total of 45 sites, and are focused on approximately 38 that demonstrate feasibility. Final site selection will take approximately 60-90 days.

In regards to the LMR System Deployment, approval of construction Waiver allows work to be performed on all sites that have Site Access Agreements. Environmental Clearance from FEMA Environmental Historic Preservation (EHP) Environmental Management Information System (EMIS), for Group 1 (10 sites) and Group 2 (9 sites) is pending. We do have CEQA clearance, contract value true-up, and building permits for these sites. As stated in the monthly report, site drawing progress has been slow. MSI has stated that they are making efforts to change the process. The Authority is still waiting for MSI to deliver a schedule that reflects the redesign efforts. The LMR contract true-up is currently underway. Authority will be submitting an amendment to the contract to reflect accurate pricing for Phases 2 through 4 on each site. It is likely that the amendments will come in groups.

Interim Executive Director John Radeleff stated one of his recommendations was to have Chris Odenthal serve as the Program Manager, and he will now be providing the Project Manager Report. Board Member Mark Alexander stated, he is pleased with the change and the remaining Board Members agreed.





## VII. DISCUSSION ITEMS (G-I)

### G. Outreach Update

The purpose of this discussion item is to update your Board on the status of outreach activities pertaining to the Land Mobile Radio (LMR) project. Director Dean Gialamas shared his appreciation for the improved outreach efforts with the community. The communication with the community is a benefit and the feedback received has been very positive. Compliment's to the team for their efforts.

### H. Replacement of Oversight Committee Member

Board is advised that a seat on the Oversight Committee is now available. If any member of the Board wishes to fill this seat, please notify the Chair of the Board. The Chair fills the seats on the Oversight Committee, at his discretion. The Oversight Committee monitors change orders, amendments, completion of Tasks, Subtasks, Deliverables and Milestones, or any deviation thereof, as it relates to the Land Mobile Radio (LMR) and Long Term Evolution (LTE) contracts. The replacement member should not be someone representing the County or the Contract Cities, who currently already serve on the Oversight Committee.

## **(THE PROJECT DEMONSTRATION WAS MOVED OUT OF ORDER TO THE END OF THE MEETING)**

### I. Project Demonstration

The purpose of this discussion item is to provide a demonstration of video, maps, GPS data and two-way voice traffic transmission between the Los Angeles County Sheriff's Department and Los Angeles County Fire Department utilizing the new Public Safety Broadband Network (PSBN) and the Land Mobile Radio (LMR) systems.

Interim Executive Director Radeleff introduced LA-RICS staff to present the project demonstration. Demonstration provided was similar to the presentation at the last BOD Meeting. The objective is to see if the video would work with Band 14 and the system was successful. Strong-watch was used for the Rose Parade throughout the duration of the parade. Our public safety broadband network system was very successful; the videos were streaming back to the command post. The speed was higher than the commercial carrier's throughout the event. Live footage was presented at the demonstration and commands were being sent to a Deputy to show that the footage was live. Some devices that are used while patrolling the streets of Los Angeles were displayed. Vehicles and other devices were available in front of the building to view during the parade. Tests were completed against the



commercial carriers and were presented as well as the locations of lost coverage and full coverage.

**VIII. ADMINISTRATIVE MATTERS (J-H)**

**(ITEM J WAS MOVED OUT OF ORDER TO AFTER ITEM O)**

**J. APPROVE THE FISCAL-YEAR 2016-17 PROPOSED LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY OPERATING BUDGET**

It is recommended that your Board:

It is recommended that the Los Angeles Regional Interoperable Communications System Authority (Authority) approve the enclosed Fiscal-Year 2016-17 Proposed Operating Budget of \$106,341,000 to be utilized for the continued operation of the Authority.

Board Member Mark Alexander asked about the Funding Plan and the cost for administrative operations that are derived from the Sheriff's Department. He specifically asked if the Sheriff's Department is going to pass on the cost to the contract cities. Director Dean Gialamas stated we are actively working on getting that issue resolved. Board Member Mark Alexander stated that if there are discussions occurring with contract cities related to cost, he would like to be involved, Interim Executive Director Radeleff agreed.

Director Gialamas asked for a motion to approve, Director Dean Gialamas motioned first, seconded by Alternate Member Chris Bundesen.

Ayes 8: Chidester, Alexander, Raney, Geiger, Bundesen, Gialamas, Perez, and Nunley

**MOTION APPROVED.**

**(ITEM K WAS MOVED OUT OF ORDER TO AFTER ITEM H)**

**K. REQUEST TO REINSTATE THE CITY OF BELL AS A MEMBER IN LA-RICS**

It is recommended that your Board:

1. Approve the reinstatement of the City of Bell's Membership into LA-RICS; and



2. Delegate authority to the Interim Executive Director to provide notice to the City Manager of Bell that the Board of Director's has accepted their request to reinstate their LA-RICS Membership.

Alternate Member John Geiger moved to welcome Bell back as a member and it was seconded by Chris Bundesen. Board Member Mark Alexander stated he has some discussion on this item, he did not object to the reinstatement of Bell. Board Member Alexander wanted to raise the question because he doesn't want to establish any kind of precedent, when a city opts-out and later requests a reinstatement. Are there going to be any imposed, I don't want to say penalty, but at a certain point and time as LA-RICS moves forward there will be cost incurred and will those costs be shared back with the City of Bell for their portion during the time they were absent. What is going to be the process, the practice and policy in the future for when we reinstate a city? Board Member Alexander stated he does not have an objection to Bell's reinstatement but thinks we should think about this in the future; maybe because we are so close to the opt-out period that it's okay; but in the future let's say a year from now, if a city wants to be reinstated are we going to allow them without thinking about the cost implications.

Alternate Member Geiger stated those are important questions and were receptive to the comments and do know that staff discussed those issues. One variable that makes this an easy question is the time being close to the opt-out period. Alternate Member Geiger stated he agreed with Board Member Alexander going forward we need to look at this on a case-to-case basis and at some point on a policy basis, recapturing cost needs to be looked at very closely perhaps be addressed by staff and ultimately by the Board.

Director Dean Gialamas stated that Board Member Alexander's point is well taken because that is a concern for the future and especially for those entities that have stayed in the process all along. There is going to be some discussion coming up in the future about funding plans, models and how we are going to carry forward. As of right now there is no financial or operation impacts by accepting the City of Bell back into LA-RICS but as you say in the future there may be for others. Our hope is that we would have addressed many of those issues and funding plan options. Director Gialamas stated there has been a lot of discussion with the cities, our hope is in the next few months we will have this worked out; these issues will be resolved and there will be a defined path moving forward for those who want to opt-in.

Alternate Member Geiger stated having said that, he's confident that the Board and staff will look at these issues.

Board Member Cathy Chidester asked is this something that the Finance Committee would look at - the reinstatement issue. Director Gialamas stated that this is something the Finance Committee can consider there are other higher levels within



the County for example the County has provided some funding and there have been discussions on whether the funding will remain with LA-RICS and maybe the reimbursement requirement. These are discussions that are going on now with the County but has yet to be resolved. Once those issues are resolved we will have a defined path then we will know what those answers will be. The Finance Committee would have to absolutely be part of the discussion, as well as some of the other committees just due to the impact to the overall program.

Director Gialamas asked for a motion to approve, the Board's consensus was unanimous.

Ayes 8: Chidester, Alexander, Raney, Geiger, Bundesen, Gialamas, Perez, and Nunley

**(ITEM L WAS MOVED OUT OF ORDER TO AFTER ITEM J)**

**L. AMENDMENT NO. 21 TO THE PROJECT AND CONSTRUCTION MANAGEMENT SERVICES AGREEMENT**

It is recommended that your Board:

1. Approve Amendment No. 21 to the Project and Construction Management Services contract with Jacobs, in substantially similar form to the enclosed, to reflect the following:
  - a. Shift funds in the amount of \$1,274,360 from Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (System Integration) to Phase 1 (System Design) to ensure sufficient funds to cover Phase 1 activities for the LMR project of the Agreement Budget due to extended design activities related to certain federal sites.
  - b. Reflect an increase in the amount of \$369,541 for Long Term Evolution (LTE) Work related to the development of the Phase 2 buildout of the Public Safety Broadband Network (PSBN) for July 2016 through September 2016, contingent upon final approval from the National Oceanic and Atmospheric Administration (NOAA).
  - c. Replace the Jacobs' contract Rate Schedule to reflect changes to the Jacobs' staffing.
  - d. Replace the Administration of Agreement to the Jacobs' contract to reflect changes to Jacobs' management assigned to the LA-RICS project.



- e. Increase the Maximum Contract Sum by \$369,541 for the LTE project of the Agreement Budget from \$37,009,416, to \$37,378,957.
2. Delegate authority to the Interim Executive Director to execute Amendment No. 21 with Jacobs, substantially similar in form to the enclosed, and issue one or more Notices to Proceed for this Work.

Contracts Manager Jeanette Arismendez read into the record since the time of this Agenda posting the Authority did secure approval from NOAA for funds identified under recommendation 1b. Director Dean Gialamas asked for confirmation that the shift in funds is for the purpose of taking Phase 1 activities forward. Contracts Manager Jeanette Arismendez stated yes that's correct and later there may be an amendment to replenish funds, if needed. The recommendation is to move forward with the shifting of funds for work projected in Phase 1.

Director Gialamas asked for a motion to approve, Cathy Chidester motioned first, seconded by Board Member Mark Alexander.

Ayes 8: Chidester, Alexander, Raney, Geiger, Bundesen, Gialamas, Perez, and Nunley

**MOTION APPROVED.**

**M. APPROVE MEMORANDUM OF UNDERSTANDING FOR USE OF LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM (LA-RICS) USER EQUIPMENT ON THE LAND MOBILE RADIO (LMR) SYSTEM EARLY DEPLOYMENT SYSTEM**

It is recommended that your Board:

1. Delegate authority to the Interim Executive Director to execute MOUs with agencies, substantially similar in form to the enclosed, which would allow the Authority to loan User Equipment to agencies and utilize the User Equipment on the LMR Early Deployment System.
2. Delegate authority to the Interim Executive Director, or his equivalent, to approve and execute amendments to the MOUs, provided they are approved as to form by Counsel to the Authority.

Alternate Member John Geiger asked if the MOU would be between members or agencies other than members. Contract Manager Jeanette Arismendez stated there has been interest from many agencies that are not currently members, including those at a Federal level, and thus the intent is to provide these devices to



demonstrate utility of the System and encourage participation. Alternate Member John Geiger stated he is good with this item as long as Counsel can confirm we are complying with all grant requirements regarding the loan of equipment that has been purchased under Federal funds. Board Member Mark Alexander asked if this is only for testing purposes. Contract Manager Jeanette Arismendez stated yes, that's correct. Board Member Cathy Chidester commented that this item will require more staff and it's not clear that it's for testing purposes only. Director Dean Gialamas asked for a recommendation for an amended motion. Alternate Member John Geiger suggested a designated term period for the testing via use of these devices. Board Member Mark Alexander stated that LA-RICS staff should provide a time frame for testing purposes. Director Dean Gialamas introduced a revision to the recommendation to add language that states that the use of the devices are for testing purposes on the Land Mobile Radio early deployment, and that language be added indicating there will be a specific term in the agreement for use of the equipment, and delegating authority to the Interim Executive Director to set the term..

Director Gialamas asked for s, Director Gialamas motioned first, seconded by Alternate Member John Geiger.

Ayes 8: Chidester, Alexander, Raney, Geiger, Bundesen, Gialamas, Perez, and Nunley

**MOTION APPROVED.**

**N. APPROVE MEMORANDUM OF UNDERSTANDING FOR USE OF LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM (LA-RICS) PUBLIC SAFETY BROADBAND NETWORK (PSBN) DEVICES**

It is recommended that your Board:

1. Delegate authority to the Interim Executive Director to execute MOUs with agencies, substantially similar in form to the enclosed, which would allow the Authority to loan Authority purchased PSBN Devices to agencies for use on the PSBN.
2. Delegate authority to the Interim Executive Director, or his equivalent, to approve and execute amendments to the MOUs, provided they are approved as to form by Counsel to the Authority.

Board members engaged in discussion regarding whether similar revisions should be made to this MOU as in Item M. Program Manager Chris Odenthal stated this MOU is for a loan out of equipment for use on the PSBN System, which is complete, and different from the previous board item. Board Member Cathy Chidester also



commented that members who want to use the equipment should be in good standing with the Authority. Counsel Truc Moore suggested that the recommended action could be amended to approve the MOU with added language that the equipment will be provided to those members/subscribers that are and will remain in good standing with the Authority, and for non-members/subscriber's there would be an established term for use of the equipment, as determined by the interim Executive Director.

Director Gialamas asked for a motion to approve, Director Gialamas motioned first, seconded by Alternate Member John Geiger.

Ayes 8: Chidester, Alexander, Raney, Geiger, Bundesen, Gialamas, Perez, and Nunley

**MOTION APPROVED.**

**(ITEM O WAS MOVED OUT OF ORDER TO AFTER DISCUSSION ITEM K)**

**O. APPROVE SITE ACCESS AGREEMENTS, CONSENT TO SITE ACCESS AGREEMENTS, AND A LICENSE AND INDEMNITY AGREEMENT FOR LAND MOBILE RADIO SYSTEM SITES**

It is recommended that your Board:

1. Find that (a) approval of all of the Agreements for the sites listed in Enclosure 1 is within the scope of the Board's March 29, 2016, approval of design, construction, implementation, operation, and maintenance of LMR infrastructure at forty-four (44) sites analyzed in the Final Environmental Impact Report (EIR) for the Los Angeles Regional Interoperability Communications System (LA-RICS) LMR System, which was recommended for certification to the Board on March 29, 2016; (b) there are no changes to the project or to the circumstances under which the project is undertaken since the approval that would result in new effects or the need for new mitigation; and (c) no new environmental document is required.
2. Authorize the Interim Executive Director to finalize and execute, substantially similar in form to the enclosed, one or more SAAs, Consent to SAAs, and License and Indemnity Agreement with the County of Los Angeles, Southern California Edison Company, Ralphs Trust, and Morrison Ranch Estates Homeowners Association.

Board Member Mark Alexander asked if this was the same agreement that was used with the County. Counsel Truc Moore stated yes it's the same agreement.



Director Gialamas asked for a motion to approve, Alternate Member Louis Perez motioned first, seconded by Alternate Member John Geiger.

Ayes 8: Chidester, Alexander, Raney, Geiger, Bundesen, Gialamas, Perez, and Nunley

**MOTION APPROVED.**

**IX. MISCELLANEOUS – (None)**

**X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD**

**XI. CLOSED SESSION REPORT**

1. CONFERENCE WITH LEGAL COUNSEL – Anticipated Litigation (subdivision (d) (2) and (d) (4) of Government Code Section 54956.9) (1 case)
2. PUBLIC EMPLOYEE PERFORMANCE EVALUATION  
(Government Code Section 54957(b)(1))  
Title: Executive Director / Interim Executive Director
3. PUBLIC EMPLOYMENT  
(Government Code Section 54957(b)(1))  
Title: Executive Director / Interim Executive Director
4. CONFERENCE WITH LABOR NEGOTIATORS  
(Government Code Section 54957.6)

The Board entered into Closed Session at 9:57 a.m., and returned to Open Session at 10:45 a.m.; Counsel Truc Moore reported that the Board of Directors for LA-RICS Authority has approved a settlement agreement with the Brentwood Hills Home Owners Association, the Hillside Federation and the Mountains Recreation Conversation Authority. The settlement agreement resolves a disputed claim regarding the Authorities' compliance with CEQA for the LMR Project. The Board unanimously found that the approval of the settlement agreement is within the scope of the previously approved project EIR and that there have been no changes to the project that call for additional CEQA review.

**MOTION APPROVED.**

**XII. ADJOURNMENT and NEXT MEETING:**

Director Gialamas announced adjournment of this meeting at 10:47 a.m. The Board's consensus was unanimous. The next Board meeting will take place on





Thursday, August 4, 2016, at 9:00 a.m., at the Los Angeles County Sheriff's Department, Hertzberg Davis Forensic Science Center, 1800 Paseo Rancho Castilla, Los Angeles, CA 90032.



## BOARD MEETING INFORMATION

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# BOARD OF DIRECTORS MEETING MINUTES

LOS ANGELES REGIONAL  
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

August 4, 2016  
The Hertzberg Davis Forensic Science Center  
1800 Paseo Rancho Castilla, Conference Room 263  
Los Angeles, CA 90032

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**Board Members Present:**

**Cathy Chidester**, Director, EMS Agency, County of Los Angeles Department of Health Services  
**Chris Donovan**, Fire Chief, City of El Segundo Fire Dept.  
**Larry Giannone**, Chief of Police, City of Sierra Madre Police Dept.  
**Mark R. Alexander**, City Manager, CA Contract Cities Assoc.  
**Kim Raney**, Chief of Police, City of Covina Police Dept.

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**Alternates For Board Members Present:**

**John Geiger**, General Manager, CEO, County of Los Angeles  
**Kirby Neese**, Battalion Chief, County of Los Angeles Fire Dept.  
**Dean Gialamas**, Division Dir., Los Angeles County Sheriff's Dept.  
**Louis Perez**, Deputy Chief, City of Inglewood Police Dept.

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**Officers Present:**

**John Radeleff**, LA-RICS Interim Executive Director

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**Absent:**

**Michael Langston**, Chief of Police, City of Signal Hill Police Dept.



**I. CALL TO ORDER**

Director Dean Gialamas called the meeting of the Board to order.

**II. ANNOUNCE QUORUM – Roll Call**

Director Gialamas acknowledged that a quorum was present and asked for a roll call.

**III. APPROVAL OF MINUTES (A)**

**A. July 7, 2016 – Revised Regular Meeting Minutes**

Agenda Item A

Director Gialamas asked for a motion to approve the minutes and Alternate Member Geiger stated he had an edit on Page 6 under item no. 2. He recalls we did not take action regarding what we would do in a situation where a former member chooses to opt back in after costs have been incurred by long-standing members. Alternate Member Geiger stated that he recalls a discussion regarding addressing each on a case-by-case basis but that is not reflected in the minutes. There was no decision made if we would charge or not charge for time off as members. This is still subject for further consideration by this Board when the need arises. Director Gialamas asked for board concurrence with Alternate Member Geiger's recommended amendment to the minutes. The Board concurred. Director Gialamas asked that we have that statement reflected in the minutes.

Board Member Chidester asked if LA-RICS would go back and review the recording to verify that's what was stated. Director Gialamas stated yes we can return to the recording. Alternate Member Geiger stated the critical point is that there was no policy established by that discussion. Each application to return to LA-RICS would have to come back to the Board, with recommended direction from staff on how to treat the application. Board Member Alexander stated he raised the issue and the concern he had at the time was setting a precedent in the future to have other cities opt back in without the costs absorbed by prior members. The discussion was to adopt a policy in the future but given that particular agency was opting back in at a time prior to member payment towards the project, we moved forward with accepting the return of the member.

Board Member Chidester stated she doesn't know the policy for staff to amend the minutes. Admin Deputy Orellana-Curtiss stated we will bring back the revised minutes with the suggested edits to the Board for approval.

**MOTION APPROVED**



**IV. PUBLIC COMMENTS – (None)**

**V. CONSENT CALENDAR – (None)**

**VI. REPORTS (B)**

**B. Director's Report – John Radeleff**

Interim Executive Director Radeleff stated staff went to White Sands, New Mexico, a couple of weeks ago to attend a Homeland Security multi-agency exercise on communications. The object was to train agencies on jamming, effects of jamming, and how to respond to it. LA-RICS was one of the agencies that was invited and it was a great experience for staff.

Interim Executive Director Radeleff wanted to acknowledge that some staff has responded to the recent fires, while working on the LA-RICS project. Board Member Alexander asked if any equipment was deployed during the recent fires and Interim Executive Director Radeleff stated no because the equipment the Fire Department had was sufficient. Board Member Alexander asked if we had to deploy COWs to that area if needed, can it be done. Interim Executive Director Radeleff stated we are looking into rapid deployables, because the COWs we currently have are not (stationed at fixed sites). We are in the process of reviewing proposals and prices for COLTS. Fire Chief Donovan stated moving forward, can LA-RICS provide some equipment during incidents; such as the recent fires and provide feedback to this Board and the community regarding use of the system. These recent brush fires are good examples of showing how our system works during these events. Board Member Giannone asked if we have a timeline for when we will have rapid deployable(s) available. Interim Executive Director Radeleff stated we are working on the proposal and hopefully by the end of the year we will have rapid deployable equipment.

Interim Executive Director Radeleff stated in regards to LTE Phase 2, there will be some change in the proposed plan for Phase 2 deployment, combining the deployment of sites with applications and other user functionality. Some debate is anticipated on this plan because there are some that want the funds used for construction of sites only. Interim Executive Director Radeleff stated he will be raising the issue of adding application development and deployment resources as well.

Interim Executive Director Radeleff stated that UASI 11' is complete; we are waiting for the extension of UASI 12', 13', 14'. Currently we have no funding until the extension comes through. This is the kind of issue we have been dealing with in the past and it creates about a two month delay. Interim Executive Director Radeleff stated that he met with the Mayor's Office and they agreed to allow us access to



multiple years of grant funds concurrently. Commander Smith emailed FEMA requesting their assistance to expedite the grant extension. Board Member Alexander asked are the funds issued on a cash advance or reimbursement basis. Director Gialamas stated on reimbursement basis, the Federal grants are very particular about not allowing you to spend until you have the extension or authorization. Last time the Sheriff happened to be in Washington, DC, he was able to discuss this matter with FEMA, which helped release the extension. This time we are going through grant administrator staff first and if we have to ask the Sheriff, we will but in the future access to the multiple years of grants funds would be helpful

Interim Executive Director Radeleff introduced Mike Bostic, Senior Law Enforcement Advisor for FirstNet and Lisa Dickson, Region Nine Lead for FirstNet. Mr. Bostic stated he's excited to be working with FirstNet Ms. Dickson states they will be awarding a vendor contract very soon as they are close to adopting a State plan for California. FirstNet would like to start with metro engagements, and would like to speak to all the public safety leaders in this region. FirstNet would like to work with LA-RICS to accomplish the timeframe for the end of this year or in 2017. There will be other stops, such as San Diego but the first stop is Los Angeles. Director Gialamas stated LA-RICS can help host, if needed. If the Los Angeles region turns out to be a good place to coordinate with multiple counties we are happy to coordinate that as well.

### C. Project Manager's Report – Justin Delfino

Jacobs, Sr. Construction Project Manager, Justin Delfino stated LTE Phase 1 has received its 57 close-out binders and will receive the final 6 binders tomorrow. We are going site to site in the field and testing for acceptance and will conclude next week. In the next 30 days we expect Motorola to close out any delinquent activities they may have, the next 60 days we expect complete close of LTE Phase 1. Status for LTE Phase 2 is currently in the planning process and 51 sites have been selected for feasibility. We expect 20-30 of those sites to work for the project's phase 2 plan. In the next 90 days a Radio Frequency (RF) design and site list will be completed as well as the site walks for LTE Phase 2.

In regards to the status on LMR, the design will be finalized in the third week of August as well as the updated schedule. Lastly, the budget is in the process of a true-up, which is a cost reconciliation for each site through Phase 2 of construction. The first nine sites of the true-up have been completed for the LMR system. We anticipate the next 60 days will involve LMR construction scheduling activities. Director Gialamas asked for LMR is that a draft or final design? Mr. Delfino stated this is the third draft, so this will be the final design. Board Member Alexander asked with that design will we be able to project a build out timeline for LMR. Mr. Delfino stated that's correct in about 2-3 weeks we should have the final schedule for the buildout.



## **VII. DISCUSSION ITEMS (D)**

### **D. Outreach Update**

The purpose of this discussion item is to update your Board on the status of outreach activities pertaining to the Public Safety Broadband Network (PSBN) and Land Mobile Radio (LMR) project.

Interim Executive Director Radeleff and representatives from the LA-RICS Team continued their ongoing outreach by meeting with Deputy Assistant Attorney General Joseph Klimavicz, CIO for the U.S. Department of Justice, and his staff to discuss shared issues and potential cooperation regarding the LMR and LTE system

The LA-RICS Team attended the 81<sup>st</sup> National Association of Counties Annual Conference and Exhibition at the Long Beach Convention Center, where staff provided a static display and demonstrations to attendees. Interim Executive Director participated in a FirstNet panel discussion attended by elected officials from throughout the nation.

The LA-RICS Communication Team held its first meeting to discuss recommended changes to our current Outreach Plan and to develop a new strategy that is focused on establishing a more prominent social media presence, revamping the website and updating all handouts and newsletter materials.

Director Gialamas shared his appreciation to Interim Executive Director Radeleff for representing us at the National Association of Counties (NACo) meeting and Chief Edison for coordinating with the Department of Justice and getting an invite with FirstNet as well.

## **VIII. ADMINISTRATIVE MATTERS (E-H)**

### **E. CALIFORNIA JOINT POWERS INSURANCE AUTHORITY – CERTIFICATION OF INTERIM DIRECTOR ALTERNATE APPOINTMENT**

It is recommended that your Board:

It is recommended that your Board provide delegated authority to the Interim Executive Director to appoint the LA-RICS designee to represent the Authority on the California Joint Powers Insurance Authority (CJPIA) in accordance with the provisions of Article 7 of the CJPIA.

Agenda Item E



Board Member Alexander stated that CJPIA is how this JPA is insured. The role as a representative is to attend one meeting a year and the purpose is to receive information, reports and electing the executive board.

Director Gialamas asked for a motion to approve, Director Gialamas motioned first, seconded by Board Member Donovan.

Ayes 9: Geiger, Neese, Gialamas, Chidester, Donovan, Giannone, Alexander, Perez, and Raney.

**MOTION APPROVED.**

#### **F. ACCEPT 2013 URBAN AREAS SECURITY INITIATIVE (UASI) FUNDS**

It is recommended that your Board:

1. Accept \$13,744,067 in grant funds from the Fiscal-Year 2013 UASI funds as distributed through the California Office of Emergency Services (CalOES); and
2. Authorize the Interim Executive Director to execute the 2013 UASI Sub-recipient Agreement, substantially similar to the enclosed from 2012, between the City of Los Angeles and the Authority.

Agenda Item F

Director Gialamas asked for a motion to approve, Board Member Giannone motioned first, seconded by Alternate Member Geiger.

Ayes 9: Geiger, Neese, Gialamas, Chidester, Donovan, Giannone, Alexander, Perez, and Raney.

**MOTION APPROVED.**

#### **G. AMENDMENT NO. 7 FOR PROFESSIONAL BROADBAND ENGINEERING CONSULTING SERVICES**

It is recommended that your Board:

1. Approve an extension to Televate's contract term to December 30, 2016, to ensure there is no break in service while the Authority awaits a formal augmentation for PSBN Part 2 from NOAA/NTIA.
2. Approve an increase to the Maximum Contract Sum in the amount of \$189,975, increasing the Maximum Contract Sum amount from \$7,097,003 to \$7,286,978





that would allow Televate to assist the Authority with the development of the PSBN Part 2 plan and design until September 30, 2016.

3. Delegate authority to the Interim Executive Director to execute Amendment No. 7 with Televate, substantially similar in form to the Enclosure.

#### Agenda Item G

Director Gialamas asked with respect to the increase in budget is that covered through existing savings somewhere or is that coming from grants. Contracts Manager Arismendez stated it is an increase that is coming from grants, which NOAA has approved up until September 30, 2016. Board Member Donovan asked was that an extension to September 30, 2016? Contracts Manager Arismendez stated the extension for the contract term is to December 30, 2016, and that is to ensure there are no lapses in service because the current contract term expires on September 30, 2016. Board Member Donovan asked if there was an expectation not to perform during that period. Contracts Manager Arismendez stated there may be an expectation to perform during that period. The expectation is to perform and if so the Authority will receive formal augmentation, which will then result in our bringing an item back to your Board for a formal amendment.

Director Gialamas asked for a motion to approve, Board Member Alexander motioned first, seconded by Board Member Chidester.

Ayes 9: Geiger, Neese, Gialamas, Chidester, Donovan, Giannone, Alexander, Perez, and Raney.

#### **MOTION APPROVED.**

#### **H. APPROVE SITE ACCESS AGREEMENT AND CONSENT TO SITE ACCESS AGREEMENT WITH THE COUNTY OF LOS ANGELES AND LOCKHEED MARTIN FOR A LAND MOBILE RADIO SYSTEM SITE**

It is recommended that your Board:

1. Find that (a) approval of all of the Agreements herein for the site listed in Enclosure 1 is within the scope of the Board's March 29, 2016, approval of design, construction, implementation, operation, and maintenance of LMR infrastructure at forty-four (44) sites analyzed in the Final Environmental Impact Report (EIR) for the Los Angeles Regional Interoperability Communications System (LA-RICS) LMR System, which was recommended for certification to the Board on March 29, 2016; (b) there are no changes to the project or to the circumstances under which the project is undertaken since the approval that



would result in new effects or the need for new mitigation; and (c) no new environmental document is required.

2. Authorize the Interim Executive Director to finalize and execute, substantially similar in form to the enclosed SAA and Consent to SAA with the County of Los Angeles and Lockheed Martin.

#### Agenda Item H

Board Member Alexander stated if the county was to terminate or attempt to terminate this agreement, the only provision is default by LA-RICS; but it doesn't state a provision for the county. The county doesn't have the ability to terminate this agreement. Counsel Caves stated that is correct the county can only terminate if LA-RICS defaults. However in this case it is not a county-owned site. Board Member Alexander stated that he keeps raising this issue because if the county asked LA-RICS to remove a particular site after the efforts of installation, who will pay for those cost or removal and demolition of the site. Counsel Caves stated the county will because they will be in breach of the agreement. Board Member Alexander stated he prefers to see that in writing.

Director Gialamas asked for a motion to approve, Board Member Alexander motioned first, seconded by Director Gialamas.

Ayes 9: Geiger, Neese, Gialamas, Chidester, Donovan, Giannone, Alexander, Perez, and Raney.

#### **MOTION APPROVED.**

#### **IX. MISCELLANEOUS – (None)**

#### **X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD**

#### **XI. CLOSED SESSION REPORT**

1. PUBLIC EMPLOYEE PERFORMANCE EVALUATION  
(Government Code Section 54957(b)(1))  
Title: Executive Director / Interim Executive Director
2. PUBLIC EMPLOYMENT  
(Government Code Section 54957(b)(1))  
Title: Executive Director / Interim Executive Director
3. CONFERENCE WITH LABOR NEGOTIATORS  
(Government Code Section 54957.6)



The Board entered into Closed Session at 9:52 a.m., and returned to Open Session at 10:44 a.m.; the Brown Act requires no report.

**XII. ADJOURNMENT and NEXT MEETING:**

Director Gialamas announced adjournment of this meeting at 10:45 a.m. The Board's consensus was unanimous. The next Board meeting will take place on Thursday, September 8, 2016, at 9:00 a.m., at the Los Angeles County Sheriff's Department, Hertzberg Davis Forensic Science Center, 1800 Paseo Rancho Castilla, Los Angeles, CA 90032.



## BOARD MEETING INFORMATION

Members of the public are invited to address the LA-RICS Authority Board on any item on the agenda prior to action by the Board on that specific item. Members of the public may also address the Board on any matter within the subject matter jurisdiction of the Board. The Board will entertain such comments during the Public Comment period. Public Comment will be limited to three (3) minutes per individual for each item addressed, unless there are more than ten (10) comment cards for each item, in which case the Public Comment will be limited to one (1) minute per individual. The aforementioned limitation may be waived by the Board's Chair.

*(NOTE: Pursuant to Government Code Section 54954.3(b) the legislative body of a local agency may adopt reasonable regulations, including, but not limited to, regulations limiting the total amount of time allocated for public testimony on particular issues and for each individual speaker.)*

Members of the public who wish to address the Board are urged to complete a Speaker Card and submit it to the Board Secretary prior to commencement of the public meeting. The cards are available in the meeting room. However, should a member of the public feel the need to address a matter while the meeting is in progress, a card may be submitted to the Board Secretary prior to final consideration of the matter.

It is requested that individuals who require the services of a translator contact the Board Secretary no later than the day preceding the meeting. Whenever possible, a translator will be provided. Sign language interpreters, assistive listening devices, or other auxiliary aids and/or services may be provided upon request. To ensure availability, you are advised to make your request at least 72 hours prior to the meeting you wish to attend. (323) 881-8291 or (323) 881-8295

SI REQUIERE SERVICIOS DE TRADUCCION, FAVOR DE NOTIFICAR LA OFICINA CON 72 HORAS POR ANTICIPADO.

The meeting is recorded, and the recording is kept for 30 days.

# Los Angeles Regional Interoperable Communications System

## PROJECT DESCRIPTION

Events of 9-11-01 have highlighted the need for first responders to be able to communicate with each other. Emergency communications primarily address local jurisdictional needs. Most agencies utilize separate radio towers and equipment, often co-located as seen here, and separate radio frequencies.

Currently, there is duplication of costs and first responders cannot communicate with each other. Many legacy systems around the County are obsolete and well beyond their useful life. The LA-RICS Project Vision is to construct, own, operate, and maintain a regional, interoperable public safety radio system. The program will establish a County-wide public safety wireless voice and data radio system for all first and secondary responders. Existing radio frequencies will be pooled and the current infrastructure utilized wherever practical. New FCC licensed broadband spectrum will be utilized.

Design, construction, and deployment of two County-wide systems (1) Land Mobile Radio (LMR) voice network will utilize a pool of 88 existing communications sites and (2) Long Term Evolution (LTE) broadband data network will utilize a pool of 231 existing communications sites. Both systems will comply with CEQA and NEPA standards.

Project and Construction Management Services will provide network, infrastructure, project, and advisory services across 5 program phases for each of the LMR and LTE projects:

- Phase 1 - System design
- Phase 2 - Site construction and modification
- Phase 3 - Supply telecommunication system components
- Phase 4 - Telecommunications system implementation
- Phase 5 - Telecommunications system maintenance

## *Location:*

2525 Corporate Place, Suite 100  
Monterey Park, CA 91754

## *Authority:*

Los Angeles Regional Interoperable  
Communications System

## *Management:*

LA-RICS Project Team

## *Consultant:*

Jacobs Program Management Company

## *Communications Vendor:*

LMR - Motorola Solutions, Inc.

LTE - Motorola Solutions, Inc.



**Monthly Report No. 53**

**For August, 2016**

**Submitted August 31, 2016**

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## **LTE-1 UPDATES**

### **Site/Civil/Closeout**

- Construction is completed on all sites with the exception of the COW sites which are to be completed late November/early December
- Received 90% complete close-out books for all 63 static sites

### **Network/ATPS**

- For ATP review all (63) sites were visited by a representative from the following agencies MSI, Jacobs, Televate, County etc. A technical and physical evaluation for alarms has been tested and documented on a site by site basis. All deficiencies were recorded by the technical and civil teams. A punch list was created by both MSI and LARICS for those (63) sites providing the next steps to review all of the failed alarm activities recorded from the acceptance tests (ATPs).
- For all the sites containing punch list items, operations has created trouble tickets within the system allowing our technicians at the NOC (Network Operations Center) to observe the re-test activities for each site as MSI completes the re-test and final close out for document submission and system acceptance. These task are on-going and are schedule for completion by mid-September.

### **SCE COWS**

- SCE is currently under construction on all 9 COW' s providing infrastructure for both utilities (power and fiber/backhaul). The schedule is as follows:
  - i. 5 of the 9 COWS's have all infrastructure completed
  - ii. The remaining 4 COW's are slated for completion by September 15
  - iii. Hardware installation and fiber splicing is ongoing
  - iv. Connectivity for both power and fiber is scheduled for completion on all sites by September 26
  - v. MSI is preparing the COW's for integration into the Network soon after the R9 software upgrade stipulated in the contract. This upgrade to the Core must be completed before the commissioning for each COW and prior to integration into the Network
  - vi. Integration for the COW's are scheduled to begin in late October or early November

### **Operations**

- Operations classes will be on-going through the end of the year and should be the final piece to provide LA-RICS the essential tools required to operate and maintain the PSBN Network. Both of the NOC's (Network Operations Centers) are currently in operations and manned 5 days a week by an LARICS technician.

## **LTE-2 UPDATES**

### **Site I.D., Justification**

- Completed 51 Site Candidate Information Packages (SCIP)
- Commenced initial site walk, final site walk, SAA, and environmental analysis scheduling

### **RF Design**

- In-depth RF design to ensure all potential holes were identified
- Created 14 more sear rings and removed 3 rings
- Reviewed each search ring and identified potential candidates
- Created detailed paper analysis of each SCIP to use and work with RF engineering to determine viability of each candidate

### **Backhaul Design**

- Initial Backhaul design commenced on 8/18/16 by Televate and is scheduled for review by team on 8/31/16

### **MSI Negotiations**

- Negotiations have not started yet, internal review and redlining of the phases of PSBN agreement are underway. The team will bring an amended Phase 1 of the contract to this Board for review

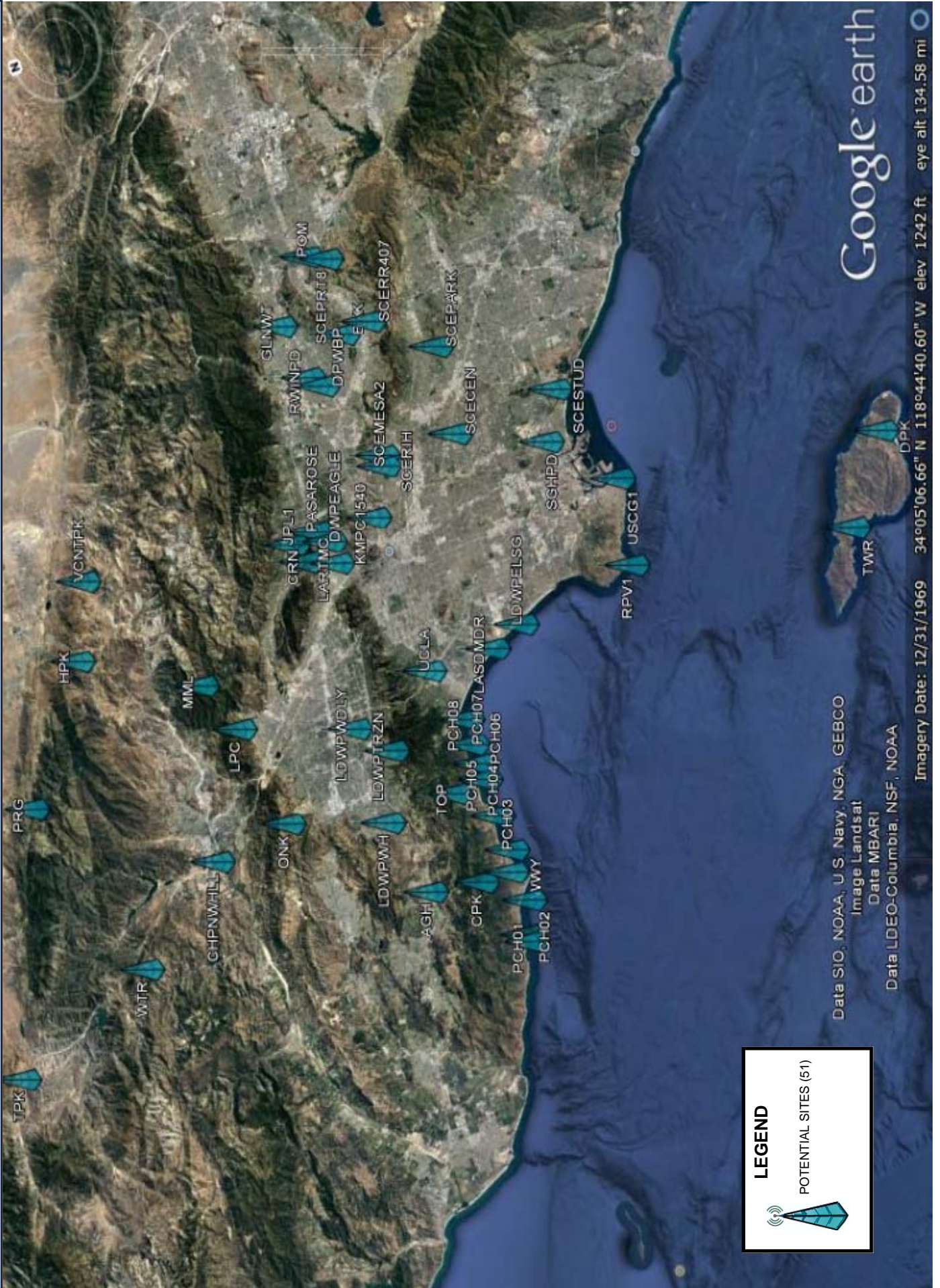
### **Budget**

- The remaining BTOP budget is approximately \$37 million and will be used to build out additional sites as well as assist in application development and network management

### **Environmental**

- Initiated review of 51 candidate sites
- Ordered and began review of electronic hazardous substance databases
- Began development of in-house CEQA and NEPA, compliance databases
- Began analysis of NHPA and ESA compliance streams to determine schedule.

# POTENTIAL LTE-2 SITES (51)



**LEGEND**  
 POTENTIAL SITES (51)

## LMR UPDATES

### Environmental Update

- Jacobs submitted data packages for the Group 2 sites on June 15 and again on July 8 to FEMA for upload in their EMIS to provide environmental clearance of the sites
- Jacobs submitted data packages for the Group 3 sites on July 29 to FEMA for upload in their EMIS to provide environmental clearance of the sites
- Jacobs submitted a letter to the City on June 1 for FEMA to submit to USFWS requesting concurrence from USFWS for the Group 2 sites
- Jacobs drafted a letter for Authority review requesting USFWS concurrence on Group 3 sites
- Jacobs continued to support Authority/USFS meetings at the Angeles NF Supervisor's Office in Arcadia. Jacobs is finalizing a cultural resources report for submittal to the USFS
- Jacobs attended site design walks with the Authority and MSI
- Jacobs continued environmental analysis of the 9 feasibility sites, including preparation of a supplement to the BRR, development of FCC 620 forms, and reviewing sites for whether they may be exempt or not from the SHPO review under the nationwide programmatic agreement

### Budget

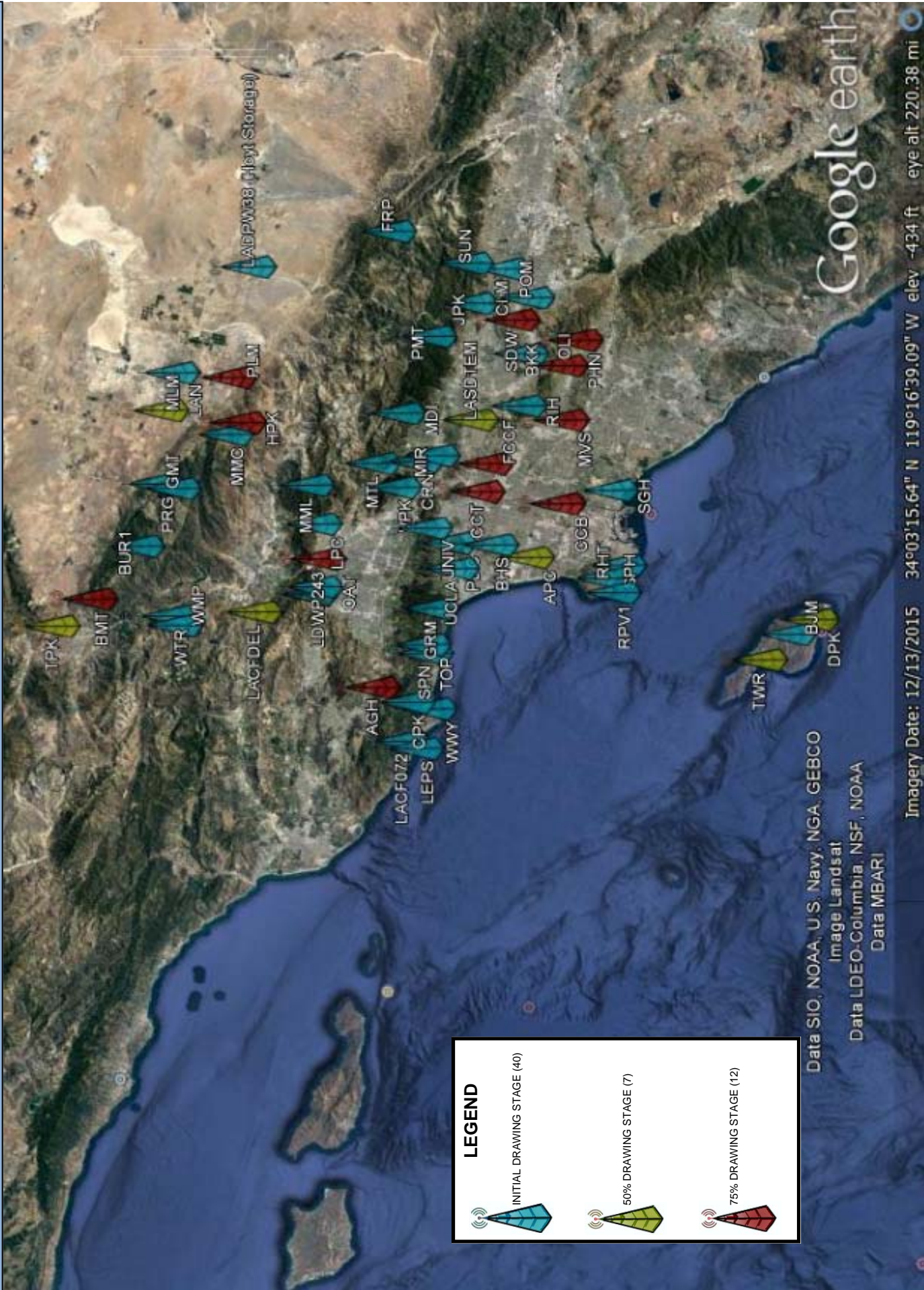
- Jacobs and MSI are currently working through contractual True-up for all sites Phases 2-4. The initial nine (9) sites are before your Board today.

### Site/Civil

- 68 site sketches have been received for review and approval by the authority as of 8/25/2016 of which 54 have been approved to move forward to design and drawing plan preparation
- 38 each 50% CD's have been received for review and approval by the authority as of 8/25/2016
- 13 each 75% CD's have been received for review and approval by the authority as of 8/25/2016
- Jacobs continues task of obtaining SAA's for 19 LMR sites (SAA's for remainder sites being processed by LA County CEO-RED)
- As of 8/25/2016, fourteen (14) executed SAA's are in place



# LMR SITES





## **Monthly Report #36**

**Reporting Period: 07/18/16 thru 08/12/16**

**Los Angeles Regional Interoperable Communications  
System (LA-RICS) - Land Mobile Radio System**

**Motorola Solutions, Inc.**



***MOTOROLA SOLUTIONS***

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## 1. Executive Summary

The Los Angeles Regional Interoperable Communications System Land Mobile Radio (LA-RICS LMR) program consists of the following five (5) phases; Phase 1 LMR System Design, Phase 2 LMR Site Construction and Site Modification, Phase 3 Supply LMR System Components, Phase 4 LMR System Implementation, and Phase 5 LMR System Maintenance. Phases 1-4 span over a five (5) year period which includes one (1) year of system warranty. Phase 5 provides the Authority with fifteen (15) one year options for Motorola Solutions Inc. (MSI) to provide system monitoring and maintenance services.

The LA-RICS LMR program is currently in Phase 1 LMR System Design. Notices-To-Proceed numbers 1 through 16 have been issued authorizing distinct work for system Design services, the design and implementation of the initial deployment of the LMR system elements termed “Early Equipment”, “Specified Equipment and System on Wheels”, and “Station B Equipment”, “Frequency Licensing”, “UPS System”, and “Portable Radios, Consolettes and Consoles”, “Portable Radio Equipment”, alternate sites “Project Descriptions”, “Frequency Licensing for the Base System”, “Bridge Warrant for Early”, “Retuning of SOW & Station B UHF Frequencies”, “Project descriptions for Nine Potential Replacement Sites” and “LMR System Redesign and Relocation of Core 2”.

On April 25 the Authority executed **Amendment 17** to make necessary changes to Phase 1 for additional project descriptions, to make changes to reflect the Work in the applicable Phases for the change in the number of sites in the LMR system, to exercise the Unilateral Options for all Work pertaining to Phases 2-4.

On April 27, 2016 the Authority issued **NTP17** authorizing specific Work related Phases 2, 3, and 4 for ten (10) LMR sites.

On May 4, 2016 the Authority executed **Amendment 18** to make necessary changes to Phase 1 for additional project descriptions and to make adjustments to Phase 1 services to accommodate additional sites.

On May 5, 2016 the Authority Board of Directors approved **Amendment 19** to remove one (1) site from the system and to reconcile equipment quantities for certain LMR sites.

### **This report covers the period from 07/18/16 through 08/12/16**

This month’s report for the LA-RICS LMR program covers the reporting period from **07/18/16** through **08/12/16**. During this reporting period associated Phase 1 tasks were performed to include A&E activities, Frequency Coordination (continues after final site confirmation), system redesign, site scope and true-up reviews, Site Access Agreements, and Environmental Reviews which are currently in progress. A&E activities included site walks, site sketch development, site surveys, development of the Zoning Drawings, and Construction Drawings.

The primary Phase 1 activities for this period include:

#### **LMR System Redesign**

LMR system redesign efforts continued this period to address the changes in sites listed in Amendments 17 through 19 and the agreed upon system coverage design enhancements for six (6) sites. System Redesign activities for this period included frequency identification and planning, determination of site

parameters for redesign, submittal and evaluation of additional coverage design enhancement recommendations, and development of subsystem architecture changes based on the system redesign. Continued site refinement and site parameters will drive the next coverage design efforts. The Authority and MSI continue to be in active review sessions for the 2<sup>nd</sup> iteration of the coverage design. The Authority and MSI are planning for a full design review meeting on September 6<sup>th</sup> to finalize the LA-RICS design.





**Site Design Activities**


Site design activities for this period included continued site evaluation walks, site sketch development and submittals, site survey walks, project description development and submittals for additional sites, Zoning Drawing development and submittal, and Construction Drawing development and submittal for Authority review. Additional activities included power load studies, evaluation of as-built drawings and tower mapping, and tower structural analysis for the applicable sites.

**LA-RICS Deliverables - Authority Site Access Agreements**

Authority’s efforts to develop and execute the applicable Right of Entry and Site Access Agreements for the required sites in the LMR design are ongoing. This activity is primarily being driven by the Authority’s Site Access Team in conjunction with LA County CEO Real Estate Division. The Authority continues to work with FEMA to obtain independent site environmental approvals which are required prior to the start of construction at a site. With the change of this activity from a task to a milestone it is no longer measuring progress and therefore we only show 0% or 100% complete for each Site Agreement.

The following table provides a dashboard snapshot of the projects’ health signs.

LMR Project Dashboard			
Category	Rating	Change	Comments
Schedule			Independent site environmental approvals and Notice To Proceed milestones are under review for determination of schedule impact. Delayed submission of permits and A&E drawings has negatively impacted the schedule. A revised schedule for Phases 1-3 was submitted on 7/15 to reflect updated activities. Phase 4 activities will be incorporated into the project schedule August for review.
Quality			Construction drawings process is slow, and additional corrective actions are being put into place. Two additional A&E firms have been incorporated to increase throughput and quality. Progress has been made since the last reporting period.
Risk			Risk items have been identified regarding: Spectrum, Site Access Agreements, and Site Conditions. FEMA independent site environmental approvals required.
Scope			Scope is well defined although there may be increased scope associated with the design enhancement recommendations

LMR Project Dashboard			
Category	Rating	Change	Comments
Budget			and in construction once geotechnical investigations are complete.  Current budget reflects contract pricing. Although the True-up process to incorporate system redesign changes is slower than anticipated, it has progressed during this period and is expected to speed up during the next reporting period.

## 2. Project Status

The following sections identify task activities during the reporting period and the planned activities for the next reporting period.

### 2.1 Tasks In Progress or Completed

The following depict the task activity that occurred during the current reporting period.

Activity Name	Activity Status
<b>LA-RICS Deliverables</b>	
Lease Negotiations & Site Access Use Agreements	In Process
FEMA Environmental Site Approvals & Construction Waivers	In Process
Additional Sites for Consideration Environmental Reviews	In Process
<b>LMR System Redesign</b>	
Redesign baseline site parameters & redesign development	In Process
Contract True-up of site designs and equipment for each site	In Process
<b>Project Descriptions</b>	
Develop Additional Project Descriptions (Amendments 16-19)	In Process
<b>Site Design</b>	
Site Walks and Site Sketch Development & Approvals	In Process
Develop Zoning Drawings & Approvals	In Process
Develop Construction Drawings & Approvals	In-Process

### 2.2 Tasks Planned for Next Period (08/15/16 thru 09/16/16)

The following depict the task activity that is planned for the next reporting period.

Activity Name	Planned Status
<b>LA-RICS Deliverables</b>	
Lease Negotiations & Site Access Use Agreement	On Going
Access to Core Sites	On Going
FEMA Environmental Site Approvals & Construction Waivers	In Process
Review and Approve Zoning and Construction Drawings	In Process
Notice To Proceed for applicable sites	On Plan to Start
<b>Environmental Review &amp; Documentation (Authority)</b>	
Additional Sites for Consideration Environmental Reviews	In Process
<b>LMR System Redesign</b>	

Activity Name	Planned Status
Redesign baseline site parameters & redesign development	In Process
Contract True-up of site designs and equipment for each site	In Process
<b>Project Descriptions</b>	
Develop Additional Project Descriptions (Amendment 16-19)	In Process
<b>Site Design</b>	
Site Walks and Site Sketch Development & Approvals	In Process
Develop Zoning Drawings & Approvals	In Process
Submittal of Zoning Drawings	In Process
Develop Construction Drawings and Approvals	In Process
Submit Permits Drawings and Approvals	On Plan to Start

### 2.3 Authority Look-Ahead Tasks (120-Day)

For the Authority planning purposes the following table provides a one hundred twenty (120) Day look-ahead of the Authority-specific activities to conduct coordination, inspections, approvals, consents, and or provide decisions necessary from the Authority to facilitate Contractor's progress.

Activity Name	Activity Status
<b>LA-RICS Deliverables</b>	
Lease Negotiations & Site Access Use Agreement	09-Sep-13 A
LA-RICS Provides Access to Core Sites	18-Sep-13 A
FEMA Environmental Site Approvals & Construction Waivers	On Going
Review and Approve Zoning and Construction Drawings	On Going
Notice To Proceed for applicable sites	On Plan to Start
<b>Environmental Review &amp; Documentation (Authority)</b>	
Additional Sites for Consideration Environmental Reviews	On Going
<b>LMR System Redesign</b>	
Complete Additional Project Descriptions Review (Amendment 16-19)	On Plan to Finish
Review and Approve Redesign baseline site parameters & redesign sections	On Plan to Finish
Contract True-up of site designs and equipment for each site	On Going
<b>Site Design</b>	
Schedule Access for the Development A&E Activities at Selected Sites	On Going
Review and Approve Site Sketches	On Going
Review and Approve Zoning Drawings	On Going
Review and Approve Construction Drawings	On Going
Review and Approve Building Permit Packages	On Going
<b>Site Construction</b>	
Outreach to Neighborhoods for Applicable Sites	On Plan to Start
Pre- Construction Packages Review & Approval	On Plan to Start
Site Construction Monitoring	On Plan to Start

### 3. Project Risk Register

Title	Assigned	Impact	Risk Description	Status
Site Parameters	Authority	High	Site parameters (e.g. tower heights, RF equipment configurations) are different from the baseline agreement and may impact System performance. These changes are reflected by the System design.	Active
Environmental Process	Authority	High	The individual determination of environmental impacts or mitigations may impact site work. Individual environmental releases from FEMA are required to start work at sites.	Active
Site Access Agreements	Authority	High	Lease holders approvals are needed in order to implement LA-RICS improvements at sites.	Active
Project Schedule	Authority	High	Overall project schedule and individual site permit submissions/work starts impacted by implementation of LMR System redesign enhancements, slow A&E construction development progress, and individual site true-ups.	Active

### 4. Areas of Concern

This section describes any events and or circumstances of which the Contractor is aware that has delayed or may delay project activities and what corrective or remedial actions was taken or will be taken to resolve the issue. Outstanding Issues Log (the “OIL Log”) entries are also tabulated and monitored in this section. “Oil Log” items include, for example, sequencing, infrastructure, site access, coordination issues, congestion of workers and equipment, time requirements for design, procurement, and installation.

ID	Event / Circumstance	Remedial Action Taken or Required
02-01	Early Construction of Some Sites	Site construction has been prioritized by groups. Permits for the initial group of 10 sites are still pending approved drawings.
02-02	System Design impacts due to changes in site conditions	Motorola and the Authority have analyzed probable site changes and suitable site replacement candidates. Adjusted tower heights and undetermined site parameters at several of the sites will impact the coverage. System redesign efforts will determine system impacts. Impact includes, microwave backhaul, equipment reconfigurations, channel plan changes, system coverage, licensing, and



ID	Event / Circumstance	Remedial Action Taken or Required
		site design and permitting.

## 5. Disputes and Claims

This section describes any disputes, potential claims, and claims made during the reporting period.

Dispute / Claim / Potential Claim	Status / Actions	Resolution Date
None to report this period		

## 6. Financial Status

The following represents the invoice payments that were completed during the reporting period and the remaining amount to be invoiced and paid.

Invoice Payment Category	Invoice Payment Totals
Contract Sum Full Payable Amount (Amendment 19)	\$154,067,733
Cumulative Invoice Payments from Last Report	\$ 46,981,653
Total Invoice Payments This Period	\$
Remaining Amount to be Paid	\$107,086,080

## 7. LA-RICS Master Schedule

MSI submitted the revised implementation schedule that includes the latest list of sites and the Authority's actual and projected dates for Site Access Agreements, FEMA independent site environmental approvals, FEMA construction waivers, and site Notice to Proceeds. The delivered schedule included Phases 1-3. The Authority and MSI conducted joint meeting to review the schedule. Phase 4 Implementation will be incorporated into the master schedule in the following period.

An exported file (XER) of the master schedule for Phases 1-3 are being delivered on a weekly basis. The following is summary level of the project for Phases 1-3 and organized in the identified grouping of sites.

LA-RICS LMR  
Executive Schedule Summary

22-Aug-16  
Data Date: 13-Aug-16

Activity Name	Remaining Duration	Start	Finish	2016												2017												2018											
				Oct	N	D	Jan	F	M	Apr	M	J	Jul	A	S	Oct	N	D	Jan	F	M	Apr	M	J	Jul	A	S	Oct	N	D	Jan	F	M	Apr	M	J	Jun	Jul	A
Priority 1 Sites	171d	9-Nov-15A	19-Apr-17	[Gantt bars for Priority 1 Sites]																																			
LMR Phase 1	94d	9-Nov-15A	29-Dec-16	[Gantt bars for LMR Phase 1]																																			
LMR Phase 2	149d	15-Sep-16	18-Apr-17	[Gantt bars for LMR Phase 2]																																			
LMR Phase 3	142d	15-Sep-16	10-Apr-17	[Gantt bars for LMR Phase 3]																																			
Priority 2 Sites	252d	3-Dec-15A	23-Aug-17	[Gantt bars for Priority 2 Sites]																																			
LMR Phase 1	144d	3-Dec-15A	13-Mar-17	[Gantt bars for LMR Phase 1]																																			
LMR Phase 2	244d	6-Sep-16	23-Aug-17	[Gantt bars for LMR Phase 2]																																			
LMR Phase 3	184d	12-Oct-16	6-Jul-17	[Gantt bars for LMR Phase 3]																																			
Priority 3 Sites	418d	16-Nov-15A	12-Apr-18	[Gantt bars for Priority 3 Sites]																																			
LMR Phase 1	290d	16-Nov-15A	6-Oct-17	[Gantt bars for LMR Phase 1]																																			
LMR Phase 2	374d	17-Oct-16	12-Apr-18	[Gantt bars for LMR Phase 2]																																			
LMR Phase 3	311d	8-Nov-16	6-Feb-18	[Gantt bars for LMR Phase 3]																																			
Priority 4 Sites	472d	16-Nov-15A	28-Jun-18	[Gantt bars for Priority 4 Sites]																																			
LMR Phase 1	352d	16-Nov-15A	9-Jan-18	[Gantt bars for LMR Phase 1]																																			
LMR Phase 2	428d	17-Oct-16	28-Jun-18	[Gantt bars for LMR Phase 2]																																			
LMR Phase 3	363d	23-Nov-16	3-May-18	[Gantt bars for LMR Phase 3]																																			
Priority 5 Sites	495d	3-Dec-15A	1-Aug-18	[Gantt bars for Priority 5 Sites]																																			
LMR Phase 1	333d	3-Dec-15A	8-Dec-17	[Gantt bars for LMR Phase 1]																																			
LMR Phase 2	414d	9-Dec-16	1-Aug-18	[Gantt bars for LMR Phase 2]																																			
LMR Phase 3	269d	15-Mar-17	6-Apr-18	[Gantt bars for LMR Phase 3]																																			

Summary

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## **Monthly Report - #30**

**Reporting Period: 7/18/16 thru 8/12/16**

**Los Angeles Regional Interoperable Communications System (LA-RICS) – Public Safety Broadband Network**

**Motorola Solutions, Inc.**



***MOTOROLA SOLUTIONS***

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## 1. Executive Summary

The Los Angeles Regional Interoperable Communications System - Public Safety Broadband Network (LA-RICS PSBN) project is a 700 MHz Long Term Evolution (LTE) public safety mobile broadband network that will provide broadband services across the County of Los Angeles for the Authority's Member Agencies.

The LA-RICS Authority was awarded a Comprehensive Community Infrastructure (CCI) Broadband Technology Opportunity Program (BTOP) grant by Department of Commerce's National Telecommunications and Information Administration (NTIA) to deploy the LA-RICS PSBN system. The BTOP grant program requires that the LA-RICS PSBN system be compatible with the future Nationwide Public Safety Broadband Network (NPSBN) currently being designed and developed by FirstNet, an independent authority within the NTIA. Additionally the Authority executed a Spectrum Manager Lease Agreement (SMLA) with FirstNet for spectrum usage rights to operate on the 700 MHz public safety broadband spectrum (D-Block). The LA-RICS-PSBN system provides the Authority with the opportunity to work cooperatively with FirstNet, while participating in testing and providing input in what will ultimately form the National Public Safety Broadband Network (NPSBN).

The LA-RICS PSBN program consists of the following five (5) phases; Phase 1 PSBN System Design, Phase 2 PSBN Site Construction and Site Modification, Phase 3 Supply PSBN Components, Phase 4 PSBN System Implementation, and Phase 5 PSBN Maintenance. Phases 1-4 must have construction activities substantially completed by September 30, 2015 to be in compliance with the BTOP grant funding program. The cost for all Work performed that is not covered by the BTOP grant program will be the sole responsibility of the Authority. Phase 5 provides the Authority with the first five (5) years of one year options for Motorola to provide system monitoring and maintenance services.

On March 10, 2014 the Authority issued **NTP 1** authorizing Motorola to begin all work in Phase 1 for System Design services. Phase 1 primary activities include:

- LA-RICS Deliverables
- Project Management Plans
- System Design
- Site Design
- RF Emissions Report
- Inventory and Management System

On April 7, 2014 the Authority issued **NTP 2** for **Amendment 2** to add detailed design services to Phase 1 for Additive Alternate No. 1, a Home Subscriber Server (HSS), and Additive Alternate No. 2, a Redundant Evolved Packet Core (EPC).

On June 20, 2014 the Authority issued **Amendment 3** to exercise the Unilateral Options for all Work pertaining to Phase 2, Site Construction and Site Modification, and Phase 3, Supply PSBN Components.

On June 20, 2014 the Authority issued **NTP 3** to begin limited work related to Phase 2 and Phase 3. Microwave equipment was excluded from NTP 3 until the Authority approves the backhaul design and issues a separate NTP. NTP 3 also authorized Motorola to proceed with all planning and non-site mobilization work related to Phase 2, Site Construction and Site Modification, however, no construction work at a specific project site location will be conducted until the Authority has received all required NEPA and/or any other applicable Federal and State Environmental approvals for each specific location.

On July 10, 2014 the Board of Directors approved **Amendment 4** for Phase 2, Site Construction and Site Modification, and Phase 3, Supply PSBN Components of Additive Alternate No. 1, a Home Subscriber Server (HSS) and Additive Alternative No. 2, a Redundant Evolved Packet Core (EPC).

On September 8, 2014 the Authority issued **NTP 4** to proceed with work related to Phase 3 Supply PSBN Components for Additive Alternate No. 1, a Home Subscriber Server (HSS). Phases 2 and 4 were excluded from NTP 4 as they relate to Additive Alternative No. 1. Per NTP 4, authorization to design and purchase the HSS have been issued but installation and implementation have been excluded.

On September 17, 2014 the Authority issued **NTP 5** authorizing Motorola to proceed with Work related to Site Construction and Site Modification under Phase 2 for Additive Alternate No. 1, Home Subscriber Server (HSS). With respect to Phase 2, Site Construction and Site Modification, the services to be performed for Additive Alternate No. 1 involve minor site preparation activities in order to receive applicable equipment racks within the existing communications rooms at the Fire Command and Control Facility.

On September 25, 2014 the Authority issued **NTP 6** authorizing Motorola to proceed with ordering 40 additional standard equipment packages. As of NTP 6, Motorola is not authorized to proceed with ordering any equipment that is dependent on final design approval from the Authority, including for microwave and backhaul, until such time as the Authority has approved the final design for such sites and issues an NTP. The final site and backhaul design will be completed within 60 days of the Authority finalizing site locations and tower configurations.

On September 26, 2014 the Authority issued **NTP 7** authorizing Motorola to proceed with Phase 4, PSBN Implementation Work. The work related to the installation of the Primary EPC at FCCF consists of installing, optimizing, testing, commissioning, and deploying all of the Authority-authorized portion of the PSBN including, without limitation, all hardware, software, physical and network infrastructure, data, and all other deliverables and other work necessary to implement the full functionality of the PSBN and training staff on the use of the PSBN. NTP 7 excludes installation of the System Management Monitoring Servers (SMMS - the servers required to manage and monitor the PSBN).

On October 1, 2014 the Authority approved **Amendment 6** for the removal of three (3) PSBN Sites and to make the changes necessary to reflect the replacement of undisguised antenna support structures to disguised antenna support structures at 32 PSBN Sites. Amendment 6 increases the Maximum Contract Sum by \$2,613,300 from \$175,583,275 to \$178,196,575.

On October 10, 2014 the Authority issued **NTP 8** authorizing Motorola to modify the existing order of 40 sites contemplated in NTP No. 6 (standard antenna support structures - 70 foot undisguised monopoles) to order 40 sites worth of equipment considering any mix of antenna support structures (undisguised and/or disguised, with disguised antenna support structures limited to 31 sites pursuant to Amendment No. 6) that Motorola deems necessary to commence construction activities. As of this NTP, construction activities remain prohibited pending the Authority receiving FONSI and SHPO approvals.

On October 22, 2014 the Authority issued **NTP 9** authorizing Motorola to proceed with all Phase 4 Work related to the installation of the System Management and Monitoring Subsystem (SMMS) at the County of Los Angeles' Fire Department's Fire Command and Control Facility (FCCF). The NTP included the statement: "Motorola Solutions has agreed to provide a fully geo-redundant SMMS configuration (to

begin implementation in November, 2015).” Motorola provided clarification that the agreement was still under negotiation for cost and schedule delivery and that the deployment of the geo-redundant SMMS was predicated on the NTP for the redundant Evolved Packet Core (EPC).

On November 4, 2014 the Authority issued **NTP 10** authorizing Motorola to begin construction on 94 sites provided within the NTP.

On December 2, 2014 the Authority issued **NTP 11** authorizing Motorola to proceed with all Work necessary for ordering and installing site routers and core routers at FCCF, LAPDVDC, and all sites for Phase 3, Supply PSBN Components. NTP also authorized Motorola to proceed with all Work related to Phase 3 for Additive Alternate 2 Redundant EPC to be located at LAPDVDC.

On December 2, 2014 the Authority issued **NTP 12**, authorizing Motorola to proceed with ordering an additional 75 PSBN Sites worth of standard equipment, such as antenna support structures Evolved Packet Core (EPC) components, eNodeB components, antennas, and associated accessories for all sites that are not dependent on final design approval. Additionally, Motorola is authorized to proceed with the ordering of all Work related to Phase 3, Supply PSBN Components, and Phase 4, PSBN Implementation, for TMR Cabinets and TMR battery backup components for 75 PSBN Sites.

On December 30, 2014 the Authority issued **NTP 13**, authorizing Motorola to begin construction on 31 City of Los Angeles Sites listed in NTP.

On December 31, 2014 the Authority approved **Amendment 7** to make changes necessary to reflect the replacement of undisguised antenna support structures with various types of antenna support structures at eight PSBN Sites.

On January 22, 2015 the Authority issued **NTP 14**, authorizing Motorola to proceed with ordering 25 vehicular routers.

On January 28, 2015 the Authority issued **NTP 15**, authorizing Motorola to begin construction on the two sites VEFD001 and VEFD003

On February 5, 2015 the Authority approved **Amendment 8** for the removal of thirty-six (36) PSBN Sites, include six (6) new PSBN Sites and to make the changes necessary to reconcile the hose tower installation costs for twenty-eight (28) PSBN Sites. Amendment 8 decreases the Maximum Contract Sum from \$178,196,575 to \$166,254,679.

On March 3, 2015 the Authority issue **NTP 16**, authorizing Motorola to begin construction on the four sites; ARCPD01, AZPD001, ELMNTPD, LACF159.

On March 4, 2015 the Authority issue **NTP 17**, authorizing Motorola to proceed with ordering and implementing TMR cabinets for seventy-five (75) sites.

On March 3, 2015 the Authority and Motorola presented its project status report to the NTIA and NOAA representatives. The meeting highlighted the equipment procurement plan and implementation plan to deploy 182 sites by August 15, 2015. Motorola presented the updated PSBN system coverage maps based on the 182 sites.



On March 5, 2015 the Authority approved **Amendment 9** for the removal of twenty-four (24) PSBN Sites, include six (6) new PSBN Sites and to make the changes necessary to accommodate various changes in civil construction scope at applicable sites.. Amendment 9 decreases the Maximum Contract Sum from \$166,254,679, to \$158,930,274.

On March 10, 2015 the Authority issue **NTP 18**, authorizing Motorola to proceed with ordering the necessary microwave radio equipment and accessories to implement the PSBN microwave paths identified in the approved PSBN backhaul design.

On March 18, 2015 the Authority issue **NTP 19**, authorizing Motorola to proceed with all Work related to Phase 4 (PSBN implementation) for Additive Alternate 2, Redundant Evolved Packet Core (EPC) at the Los Angeles Police Department Valley Dispatch Center (LAPDVDC).

On April 2nd, 2015 the Authority issued a formal **Suspension Order**, directing Motorola to halt the procurement equipment.

On April 3<sup>rd</sup>, 2015 the Authority received a **Stop Work Notice** for all work and was issued a Corrective Action Plan (CAP) from NOAA to be submitted by April 13, 2015. Between 3/3/15 and 3/13/15 Motorola produced numerous supporting coverage scenarios for the Authority to include within the CAP response.

On April 16, 2015 the Authority issued a letter to Motorola requesting a plan for reduced scope and an analysis of cost impact. A Schedule was released on 5/07/15 and is updated on a weekly basis.

On May 7, 2015 the Authority issued **NTP 20**, authorizing Motorola to proceed with ordering the necessary microwave radio equipment and accessories to implement the PSBN microwave paths remaining as part of the CAP site list.

On May 7, 2015 the Authority issued **NTP 21**, partially cancelling the Suspension Order that was issued on April 3, 2015 and authorized construction to resume at the 69 sites identified in the Corrective Action Plan.

On May 7, 2015 the Authority issued **NTP 22**, directing Motorola to 1) look at options are returning Additive Alternate No. 1, the Redundant Evolved Packet Core (EPC), assigned to the Los Angeles Police Department Valley Dispatch Center (LAPDVDC) to Ericsson; (2) recover the redundant EPC for Motorola's use in other projects or (3) resell the Redundant EPC to a secondary market. Motorola is evaluating the cost impacts and the legal possibilities with the directive issued in this NTP.

On May 12, 2015 the Authority issued **NTP 23**, authorizing Motorola to order fiber optic equipment and provide services via contract between Fujitsu and Motorola in order to create a link between the FCCF and the City fiber ring. NTP 23 was limited to the County portion of the design.

On May 15, 2015 the Authority issued **NTP 24**, authorizing Motorola to order leased fiber services from AT&T, Verizon, and Time Warner to provide connections between the applicable CAP sites and the FCCF EPC site.

On May 15, 2015 the Authority issued **NTP 25**, directing Motorola to 1) return the excess PSBN equipment to its manufacturers, 2) recover the excess equipment for Motorola's use in other projects,

or 3) resell the excess PSBN equipment to a secondary market, in accordance with the list of equipment in the NTP. Motorola is evaluating the list of equipment provided in the NTP and the cost impacts and the legal possibilities with the directive issued in this NTP.

On May 20, 2015 the Authority issued **NTP 26** Authorizing Motorola to order fiber optic equipment and provide services via contract between Fujitsu and Motorola to create a link between the EPC located at the Los Angeles County Fire Department's FCCF facility and the City Los Angeles fiber ring. NTP 26 expands upon the products and services in NTP 23 to include the City portion of the fiber scope.

On June 18, 2015 the Authority approved **Amendment 10** for the Inclusion of 15 Cell-On-Wheels and the Construction Restoration Work at 30 PSBN Sites.

On June 25, 2015 the Authority issued **NTP 27** Authorizing Motorola to proceed with all Phase 1 (System Design) Work for fifteen (15) Cell-On-Wheels (COWs) sites.

On June 30, 2015 the Authority issued **NTP 28** Authorizing Motorola to proceed with all Work related to construction restoration for thirty (30) PSBN Sites that have been removed from the program.

On June 30, 2015 the Authority issued **NTP 29** Authorizing Motorola to proceed with ordering nine hundred and seventy-five (975) VML-750 in-vehicle router units.

On July 16, 2015 the Authority approved **Amendment 11** to add 15 Cell-On-Wheels (COWs) and the PASDNPD site to the PSBN program.

On July 16, 2015 the Authority issued **NTP 30** Authorizing Motorola to proceed with all Phase 2 (Site Construction and Site Modification), Phase 3 (Supply PSBN components), and Phase 4 (PSBN Implementation) Work for fifteen (15) Cell-On-Wheels (COWs).

On August 13, 2015 the Authority approved **Amendment 12** to remove forty-two (42) sites from the PSBN system, authorize the removal of seven (7) tower foundations at the applicable restoration sites, to purchase 5,000 Universal Integrated Circuit Cards (UICC), purchase of five (5) CISCO routers and five (5) corresponding units of data services, and approvals for applicable change orders.

On August 13, 2015 the Authority issued **NTP 31** Authorizing Motorola to proceed with ordering five thousand (5,000) standalone universal Integrated Circuit Cards (UICCs)

On September 1, 2015 the Authority issued **NTP 32** authorizing Motorola to proceed with ordering five (5) CISCO routers and five (5) corresponding units of data and related Work that are capable of operating a 4G cellular aircard on a commercial carrier that will allow Motorola and the Authority to temporarily test eNodeB sites in the event that the permanent backhaul solution is not available at the time of site commissioning.

On September 4, 2015 the Authority approved **Amendment 13** to confirm the prior removal of 77 additional sites.

On September 23, 2015 the Authority issued **NTP 33** authorizing Motorola to proceed with replacing the security certificates at the EPC core.

On October 9, 2015 the Authority approved **Amendment 14** to adjust the contract for scope changes to tower sites.

On October 15, 2015 the Authority issued **NTP 34** instructing Motorola to provide a portion of the training plan for 9 classes.

On December 17, 2015 the Authority Approved **Amendment 15** to: (a) Settle and resolve all outstanding claims with the Contractor, including all claims from Contractor's subcontractors, and including all known and all potential future claims through the completion of the work under the Agreement, with the exception of changes to the Work directed in writing by the Authority; (b) Approve payment to the Contractor of \$15,764,246 in the specific amounts for the specific claims identified in tab C.16 of Exhibit C (Schedule of Payments) attached to the Amendment; (c) Approve the reduction of project management fees payable to the Contractor in the Agreement for sites not constructed, for a total reduction in project management fees of \$5,078,774, as reflected in tabs C.3, C.4 and C.5 of Exhibit C (Schedule of Payments) attached to the Amendment; and (d) Authorize an increase to the Maximum Contract Sum by the net amount of \$10,685,472 from \$132,899,485 to \$143,584,957.

On December 3, 2015, the Authority issued a Suspension Order for Waterway Coverage Testing, Special Operations Testing (SOT), and the Public Safety Broadband Network (PSBN) Burn-in Testing (Burn-in).

On December 21, 2015 the Authority and Motorola executed **Amendment 15** as described above.

On February 23, 2016, the Authority issued a Termination for Convenience for the Wide Area Coverage Testing.

On March 9, 2016 the Authority issued Motorola a **Termination for Convenience** for all Waterway Coverage Testing, Special Operations Testing (SOT), Public Safety Broadband Network (PSBN) Burn-in Testing (Burn-in) Testing, and for Freeway Coverage Testing.

On March 9, 2016 the Authority approved **Amendment 16** to include all Work related to additional Radio Frequency (RF) Emissions testing at twelve (12) PSBN sites to include six (6) indoor emission tests at identified sites.






On March 16, 2016 the Authority issued **NTP 35** authorizing Motorola to conduct additional RF Emissions Testing at twelve (12) PSBN Sites

On May 4, 2016 the Authority approved **Amendment 17** to remove all Work related to Coverage, Stress, and Burn-in testing. On May 5, 2016 MSI submitted a claim for the portion of Work completed on the terminated scope. The Authority is currently reviewing MSI's submission.

**This report covers the period from 7/18/16 to 8/12/16**

There were no additional Amendments or NTPs issued during this reporting period.

The following table provides a dashboard snapshot of the projects' health signs.

PSBN Project Dashboard			
Category	Rating	Change	Comments
Schedule			The balance of training, acceptance testing, and final documentation are pushing the schedule completion out. These limit the ability for the Authority to utilize the PSBN but do not impact functionality.
Quality			MSI is in the process of making adjustment to reduce high interference levels on multiple sites. No major quality issues to report this period.
Risk			The SCE Cell on Wheel Sites have begun construction. No major risk issues to report this period.
Scope			The contract has been amended to account for the remaining site tower and location changes.
Budget			Authority has not yet authorized payment for excess equipment that was ordered by Authority and delivered prior to any stop work notices.

## 2. Project Status

The following sections identify task activities during the reporting period and the planned activities for the next reporting period.

### 2.1 Tasks In-Progress and Completed

The following depict the task activity that occurred during the current reporting period.

Activity Name	Activity Status
<b>LA-RICS Deliverables</b>	
Provide Access and Escorts to EPC and RAN Sites	As Needed
<b>System Design Activities</b>	
Network Management System Design Update With Comments	In Progress
<b>Site Construction &amp; Site Modification (Phase 2)</b>	
Permit Clear for Applicable LTE Sites	In Progress
<b>System Implementation (Phase 4)</b>	
LTE EPC Install & Configuration / Test	In Progress
COW Sites Install, Configuration, Commissioning / Test	In Progress
Site acceptance testing	Completed

Activity Name	Activity Status
Site acceptance testing punch list resolution	Started
Closeout documents & as-built drawings	In Progress
LTE Training	In Progress
PSBN Acceptance Test Documentation	In Progress

## 2.2 Tasks Planned for Next Period (8/15/16 thru 9/16/16)

The following depict the task activities that are planned for the next reporting period.

Activity Name	Planned Status
<b>LA-RICS Deliverables</b>	
Provide Access to Sites	As needed
Power & Fiber Services for 10 SCE COW Sites	In Process
<b>Site Construction and Site Modification (Phase 2)</b>	
Permit Clear for Applicable LTE Sites	In Progress
<b>System Implementation (Phase 4)</b>	
LTE EPC Install, Configuration, Testing	As Needed
COW Sites Install, Configuration, Commissioning / Test	In Progress
Site acceptance testing punch list resolution	In Progress
Submit Closeout documents & as-built drawings	In Progress
PSBN Training	In Progress
PSBN Acceptance Test Documentation	In Progress

## 2.3 Authority Look-Ahead Tasks (120-Day)

For the Authority planning purposes the following table provides a one hundred twenty (120) Day look-ahead of the Authority-specific activities to conduct coordination, inspections, approvals, consents, and or provide decisions necessary from the Authority to facilitate Contractor's progress.

Activity Name	Start
<b>LA-RICS Deliverables</b>	
Provide Access to Sites	In Progress
Power & Fiber Services for 10 SCE COW Sites	In Progress
<b>Acceptance Test Plan</b>	
Revised ATP Review and Approvals	In Progress
<b>Site Construction and Site Modification (Phase 2)</b>	
Site Inspections & Permit Clear	In Progress
<b>System Implementation (Phase 4)</b>	
EPC & Network Management Installation Testing ( <u>Potential Reconfiguration</u> )	As needed
PSBN Site Equipment Inspections	As needed
Cluster Tuning and Testing Review	In Progress (TBD)
PSBN Training Attendance	In Progress
PSBN As-Built Documentation Review	In Progress

### 3. Project Risk Register

For this monthly report, the following items are at risk.

Title	Assigned	Impact	Risk Description	Status
Equipment Order NTPs	LA-RICS	High	NTP for core spare equipment. At this time there are no spares for the primary EPC. Spares can take up to 16 weeks for delivery.	Unknown, Authority to Provide Status

### 4. Areas of Concern

This section describes any events and/or circumstances of which the Contractor is aware that has delayed or may delay project activities and what corrective or remedial actions were taken or will be taken to resolve the issue. Outstanding Issues Log (the “Oil Log”) entries are also tabulated and monitored in this section. “Oil Log” items include, for example, sequencing, infrastructure, site access, coordination issues, congestion of workers and equipment, time requirements for design, procurement, and installation.

ID	Event / Circumstance	Remedial Action Taken or Required
24-01	Final Site Documentation	MSI construction subcontractors have been very slow in delivering final site documentation which may impact delivery delay.
27-01	High Interference Levels on Multiple Sites	MSI is revisiting sites with high levels and making necessary corrections.
28-01	Asset Mgt System Sign-Off	ATP for IMTS has been ongoing for over a year. Same system is in use by LMR project and was accepted. Final retesting of identified tests scheduled for 9/1.
28-02	System ATP Reviews	ATP review process has been ongoing since 9/1/2015. Need technical teams to reach agreement so system ATPs can be concluded. Technical teams have reached an agreement on site ATPs, tests were completed in August. Punch list resolution in process

## 5. Disputes and Claims

This section describes any disputes, potential claims, and claims made during the reporting period.

Dispute / Claim / Potential Claim	Status / Actions	Resolution Date
Testing Cancellation for Convenience	MSI delivered report with additional details on Work complete prior to suspension and termination. Authority to review second report.	TBD

## 6. Financial Status

The following table represents the invoice payments that have been completed to date. The revised Contract Sum amount based on the Corrective Action Plan is being reviewed by the Authority and Motorola. For this reporting period the Contract Sum is based on Amendment 17.

PSBN Invoice Payment Category	Invoice Payment Totals
PSBN Contract Sum Full Payable Amount (Phases 1-4)	\$ 101,528,241
Cumulative Invoice Payments from Last Report	(\$ 73,367,427)
Total Invoice Payments This Period	(\$ 476,627)
Remaining Amount to be Paid	\$ 27,684,187

## 7. LA-RICS PSBN Project Schedule

This Monthly Report is being submitted with a copy of the schedule update corresponding to the Data Date for the reporting period.

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See attached PSBN Summary Schedule (PDF file)



Activity ID	Activity Name	Start	Finish	Duration % Complete	Remaining Duration	Total Float	2014												2015												2016												2017											
							F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A					
<b>Total</b>		04-Feb-14 A	17-Mar-17	81.52%	143	262	[Gantt bars for Total]																																															
<b>LA_City</b>		04-Mar-14 A	10-Oct-16	94.44%	35	370	[Gantt bars for LA_City]																																															
LA.LAPD077		12-Mar-14 A	22-Jul-16 A	100%	0		[Gantt bar for LA.LAPD077]																																															
LA.LAPDDVN		12-Mar-14 A	22-Jul-16 A	100%	0		[Gantt bar for LA.LAPDDVN]																																															
LA.LAPDFTH		12-Mar-14 A	08-Jun-16 A	100%	0		[Gantt bar for LA.LAPDFTH]																																															
LA.LAPDHLB		04-Mar-14 A	23-May-16 A	100%	0		[Gantt bar for LA.LAPDHLB]																																															
LA.LAPDHWD		12-Mar-14 A	08-Jul-16 A	100%	0		[Gantt bar for LA.LAPDHWD]																																															
LA.LAPDMIS		12-Mar-14 A	29-Jul-16 A	100%	0		[Gantt bar for LA.LAPDMIS]																																															
LA.LAPDNHD		12-Mar-14 A	10-Oct-16	94.1%	35	370	[Gantt bar for LA.LAPDNHD]																																															
LA.LAPDNWT		12-Mar-14 A	23-May-16 A	100%	0		[Gantt bar for LA.LAPDNWT]																																															
LA.LAPDOLY		10-Mar-14 A	22-Jul-16 A	100%	0		[Gantt bar for LA.LAPDOLY]																																															
LA.LAPDPAC		12-Mar-14 A	08-Jul-16 A	100%	0		[Gantt bar for LA.LAPDPAC]																																															
LA.LAPDRAM		12-Mar-14 A	22-Jul-16 A	100%	0		[Gantt bar for LA.LAPDRAM]																																															
LA.LAPDTOP		12-Mar-14 A	29-Jul-16 A	100%	0		[Gantt bar for LA.LAPDTOP]																																															
LA.LAPDVNS		12-Mar-14 A	08-Aug-16 A	100%	0		[Gantt bar for LA.LAPDVNS]																																															
LA.LAPDWIL		12-Mar-14 A	29-Jul-16 A	100%	0		[Gantt bar for LA.LAPDWIL]																																															
LA.LAPDWLA		12-Mar-14 A	29-Jul-16 A	100%	0		[Gantt bar for LA.LAPDWLA]																																															
LA.LAPDWVD		12-Mar-14 A	08-Jul-16 A	100%	0		[Gantt bar for LA.LAPDWVD]																																															
LA.LAPP001		12-Mar-14 A	20-Jun-16 A	100%	0		[Gantt bar for LA.LAPP001]																																															
LA.LDWP243		12-Mar-14 A	05-Aug-16 A	100%	0		[Gantt bar for LA.LDWP243]																																															
LA.SEP		12-Mar-14 A	20-Jun-16 A	100%	0		[Gantt bar for LA.SEP]																																															
LA.SWP		12-Mar-14 A	27-Jun-16 A	100%	0		[Gantt bar for LA.SWP]																																															
LA.VPC		12-Mar-14 A	27-Jun-16 A	100%	0		[Gantt bar for LA.VPC]																																															
<b>LA_County</b>		21-Feb-14 A	10-Oct-16	94.78%	35	370	[Gantt bars for LA_County]																																															
LA.BMT		12-Mar-14 A	15-Jul-16 A	100%	0		[Gantt bar for LA.BMT]																																															
LA.CCT		12-Mar-14 A	08-Aug-16 A	100%	0		[Gantt bar for LA.CCT]																																															
LA.CEN		12-Mar-14 A	15-Jul-16 A	100%	0		[Gantt bar for LA.CEN]																																															
LA.FCCF		12-Mar-14 A	05-Aug-16 A	100%	0		[Gantt bar for LA.FCCF]																																															
LA.LACHAR		12-Mar-14 A	15-Jul-16 A	100%	0		[Gantt bar for LA.LACHAR]																																															
LA.LACOLV		12-Mar-14 A	27-Jun-16 A	100%	0		[Gantt bar for LA.LACOLV]																																															

Activity ID	Activity Name	Start	Finish	Duration % Complete	Remaining Duration	Total Float	2014												2015												2016												2017											
							F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A					
LA.LACUSC		12-Mar-14 A	10-Oct-16	94.66%	35	370	[Gantt bar for LA.LACUSC: 100% complete, ends 10-Oct-16]																																															
LA.LAN		12-Mar-14 A	11-Jul-16 A	100%	0		[Gantt bar for LA.LAN: 100% complete, ends 11-Jul-16 A]																																															
LA.LASDALD		12-Mar-14 A	08-Jul-16 A	100%	0		[Gantt bar for LA.LASDALD: 100% complete, ends 08-Jul-16 A]																																															
LA.LASDCSN		12-Mar-14 A	23-May-16 A	100%	0		[Gantt bar for LA.LASDCSN: 100% complete, ends 23-May-16 A]																																															
LA.LASDIDT		12-Mar-14 A	08-Jun-16 A	100%	0		[Gantt bar for LA.LASDIDT: 100% complete, ends 08-Jun-16 A]																																															
LA.LASDLKD		12-Mar-14 A	27-Jun-16 A	100%	0		[Gantt bar for LA.LASDLKD: 100% complete, ends 27-Jun-16 A]																																															
LA.LASDLNX		12-Mar-14 A	15-Jul-16 A	100%	0		[Gantt bar for LA.LASDLNX: 100% complete, ends 15-Jul-16 A]																																															
LA.LASDNCC		12-Mar-14 A	01-Jun-16 A	100%	0		[Gantt bar for LA.LASDNCC: 100% complete, ends 01-Jun-16 A]																																															
LA.LASDNWK		12-Mar-14 A	20-Jun-16 A	100%	0		[Gantt bar for LA.LASDNWK: 100% complete, ends 20-Jun-16 A]																																															
LA.LASDPRV		12-Mar-14 A	10-Oct-16	99.85%	1	370	[Gantt bar for LA.LASDPRV: 99.85% complete, ends 10-Oct-16]																																															
LA.LASDSCV		12-Mar-14 A	08-Jul-16 A	100%	0		[Gantt bar for LA.LASDSCV: 100% complete, ends 08-Jul-16 A]																																															
LA.LASDSDM		21-Feb-14 A	01-Jul-16 A	100%	0		[Gantt bar for LA.LASDSDM: 100% complete, ends 01-Jul-16 A]																																															
LA.LASDTEM		12-Mar-14 A	15-Jul-16 A	100%	0		[Gantt bar for LA.LASDTEM: 100% complete, ends 15-Jul-16 A]																																															
LA.LHS		12-Mar-14 A	27-Jun-16 A	100%	0		[Gantt bar for LA.LHS: 100% complete, ends 27-Jun-16 A]																																															
LA.MLM		12-Mar-14 A	01-Jul-16 A	100%	0		[Gantt bar for LA.MLM: 100% complete, ends 01-Jul-16 A]																																															
LA.ONK		12-Mar-14 A	01-Jul-16 A	100%	0		[Gantt bar for LA.ONK: 100% complete, ends 01-Jul-16 A]																																															
LA.PHN		12-Mar-14 A	10-Oct-16	93.97%	35	-157	[Gantt bar for LA.PHN: 93.97% complete, ends 10-Oct-16]																																															
LA.PLM		12-Mar-14 A	15-Jul-16 A	100%	0		[Gantt bar for LA.PLM: 100% complete, ends 15-Jul-16 A]																																															
LA.RANCHO		12-Mar-14 A	29-Jul-16 A	100%	0		[Gantt bar for LA.RANCHO: 100% complete, ends 29-Jul-16 A]																																															
LA.SLA		12-Mar-14 A	01-Jul-16 A	100%	0		[Gantt bar for LA.SLA: 100% complete, ends 01-Jul-16 A]																																															
LA.WAL		12-Mar-14 A	22-Jul-16 A	100%	0		[Gantt bar for LA.WAL: 100% complete, ends 22-Jul-16 A]																																															
LA.WHD		12-Mar-14 A	27-Jun-16 A	100%	0		[Gantt bar for LA.WHD: 100% complete, ends 27-Jun-16 A]																																															
<b>Independent Cities</b>		04-Feb-14 A	10-Oct-16	94.7%	35	370	[Gantt bar for Independent Cities: 94.7% complete, ends 10-Oct-16]																																															
LA.ARCPD01		04-Feb-14 A	23-May-16 A	100%	0		[Gantt bar for LA.ARCPD01: 100% complete, ends 23-May-16 A]																																															
LA.AZPD001		12-Mar-14 A	29-Jul-16 A	100%	0		[Gantt bar for LA.AZPD001: 100% complete, ends 29-Jul-16 A]																																															
LA.CLM		12-Mar-14 A	29-Jul-16 A	100%	0		[Gantt bar for LA.CLM: 100% complete, ends 29-Jul-16 A]																																															
LA.CPTFD04		12-Mar-14 A	23-May-16 A	100%	0		[Gantt bar for LA.CPTFD04: 100% complete, ends 23-May-16 A]																																															
LA.ELMNTPD		12-Mar-14 A	29-Jul-16 A	100%	0		[Gantt bar for LA.ELMNTPD: 100% complete, ends 29-Jul-16 A]																																															
LA.FS5		12-Mar-14 A	01-Jun-16 A	100%	0		[Gantt bar for LA.FS5: 100% complete, ends 01-Jun-16 A]																																															
LA.GARD001		12-Mar-14 A	10-Oct-16	94.27%	35	370	[Gantt bar for LA.GARD001: 94.27% complete, ends 10-Oct-16]																																															

Activity ID	Activity Name	Start	Finish	Duration % Complete	Remaining Duration	Total Float	2014												2015												2016												2017											
							F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A					
LA.LAPP001		07-Dec-15 A	18-Feb-16 A	100%	0																										18-Feb-16 A																							
LA.LBFD012N		12-Mar-14 A	23-May-16 A	100%	0																										23-May-16 A																							
LA.LBPDHQ		12-Mar-14 A	29-Jul-16 A	100%	0																										29-Jul-16 A																							
LA.PASA001		12-Mar-14 A	20-Jun-16 A	100%	0																										20-Jun-16 A																							
LA.PASDNP		12-Mar-14 A	15-Jul-16 A	100%	0																										15-Jul-16 A																							
LA.VEFD001		12-Mar-14 A	27-Jun-16 A	100%	0																										27-Jun-16 A																							
LA.VEFD003		12-Mar-14 A	01-Jul-16 A	100%	0																										01-Jul-16 A																							
<b>No LA-RICS Jurisdiction [O]</b>		01-Sep-14 A	17-Mar-17	77.52%	143	262																																					17-Mar-17											
LA.ARCPD01		02-Jul-15 A	02-Jul-15 A	0%	0														02-Jul-15 A																																			
LA.Prjt Closeout		01-Oct-15 A	13-Mar-17	60.4%	139	266																																					13-Mar-17											
LA.SI		01-Sep-14 A	17-Mar-17	77.52%	143	262																																					17-Mar-17											
LA.Sys Op_Test		22-Aug-16	22-Aug-16	0%	0	341																																					22-Aug-16											
LA.Warranty		01-Oct-15 A	01-Jun-16 A	100%	0																										01-Jun-16 A																							



**LOS ANGELES REGIONAL INTEROPERABLE  
COMMUNICATIONS SYSTEM AUTHORITY**

2525 Corporate Place, Suite 100  
Monterey Park, California 91754  
Telephone: (323) 881-8291  
<http://www.la-rics.org>

JOHN RADELEFF  
INTERIM EXECUTIVE DIRECTOR

September 8, 2016

To: LA-RICS Authority Board of Directors

From: John Radeleff  
Interim Executive Director

A handwritten signature in blue ink that reads "John E. Radeleff".

**Assessment of LA-RICS Deliverable**

Attached is the Interim Executive Director's Assessment of LA-RICS for review and discussion by the LA-RICS JPA Board.

This report discusses Personnel Resources and Organizational Structure, Finances and the Funding Plan, Relationships and Marketing, Business Strategies, and past significant 90-Day Events.

TM:WST:pl



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# ASSESSMENT OF LA-RICS

## Los Angeles Regional Interoperable Communications System

Prepared by  
John Radeleff, Interim Executive Director  
LA-RICS

September 1, 2016

**AGENDA ITEM E - ENCLOSURE**

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## INTRODUCTION

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The Los Angeles Regional Interoperable Communications System Authority's (LA-RICS) Land Mobile Radio (LMR) and Long Term Evolution (LTE) projects are an ambitious integration of communication systems that may well redefine how public safety views interoperable communications, not only during emergency events but day-to-day operations as well. While there has been much progress and many successes, there have also been frustrations and delays in its progress. Many of those delays can be attributed to external issues, such as: two prior failed procurement processes causing a yearlong delay, long environmental review by federal agencies resulting in a 2-year delay, union opposition to site installations resulting in further delay, and de-construction of sites.

LA-RICS has faced funding issues as well. The return of \$59 million over the past nine years, the temporary suspension of the Broadband Technology Opportunities Program (BTOP) grant resulting in a significant delay, and diminishing funds from the Urban Area Strategic Initiative (UASI) also impeded progress. But, despite the reasons, a question arises if better planning could have mitigated some of these issues.

This Assessment deliverable will focus on Personnel Resources and Organizational Structure, Finances and the Funding Plan, Relationships and Marketing, and Business Strategies, and past Significant 90 Day Events.

While one of my primary tasks was to conduct this assessment, my responsibilities also included performing the daily duties of the Interim Executive Director. While that function alone proved to be a full time job, it offered me the opportunity to assess the LA-RICS program from both fresh and first-hand perspectives. I also believe this has helped me to adopt a more understanding view of the issues.

Many themes emerged during my discussions with stakeholders. There were no contradictions in any of the views or perceptions expressed, resulting in a remarkably consistent view of the issues. In every case, my personal observations and investigation support those views. Not all issues or concerns will be discussed in this report, which will focus on the substantive topics impacting progress or stakeholder participation. However, all issues are being addressed operationally.

Some of the significant issues expressed by stakeholders include the following:

- The Funding Plan and costs to members/subscribers is confusing
- There has been a loss of credibility and trust
- There is a lack of trust in LA-RICS leadership



- Outreach efforts have been poor and ineffective
- There have been no tangible deliverables
- There has been little or no marketing, or understanding of the Systems
- There has been little involvement with stakeholders
- Environmental delays are a problem
- There is a poor relationship with ICI System
- LA-RICS is chasing grant funds
- LA-RICS lacks a vision

The information contained in this report reflects activities beginning March 7, 2016, continuing to the date of the report and is derived from my interviews, observation and participation. Those interviewed included representatives from public safety agencies, independent and contract city officials, various county officials, state and federal representatives, JPA Board members, and LA-RICS staff. While the information presented herein is not all-inclusive, it reflects the substance of the issues.

I wish to thank the Los Angeles Regional Interoperable Communications System Authority for the opportunity to not only conduct this assessment but for its faith in entrusting me with the interim leadership of LA-RICS. Although this assessment report is submitted pursuant to the Board's timeline, the process of assessment, evaluation and improvement will continue as will my appreciation for the outstanding work by staff, often performed under trying circumstances.

## PERSONNEL RESOURCES AND ORGANIZATIONAL STRUCTURE

---

Effective July 1, 2016, LA-RICS will be budgeted for thirty-one (31) full time staff positions who are provided by contract agreement with the County of Los Angeles (County). In addition, there are eleven (11) part-time, or “as needed” positions, which are also provided by contract agreement with the County. Staff (both full time and “as needed”) come from various County departments, including: District Attorney, Treasurer & Tax Collector, Public Works, Sheriff, Fire, Probation, Internal Services, County Counsel, and Auditor-Controller. In addition, the Authority’s Board of Directors hires two (2) positions: one (1) full time for an Executive Director, and one (1) part time for the LTE Project Manager, via personal consulting contracts. In addition, staff for project management and project implementation work is established by Jacobs Project Management Company (Jacobs) and Motorola Systems, Inc. (MSI) under blanket contracts.

Funding for project staff is derived from various sources. For FY 16/17, funding is provided through BTOP grant, UASI/SHSGP grants, County contributions, and member agency funding (although no member agency billing has yet to occur).

### **Administrative Management**

Administrative Management staff consists of fifteen (15) funded positions that support the operations of LA-RICS, including fiscal activities, grant management, contracts, outreach, site access and the JPA Board, to name a few. Currently, there are five (5) vacancies in Administrative Management. I have directed that a vacancy in support of the Executive Director not be filled at this time as I have required minimal administrative support; however vacancies in support of other activities will be filled as necessary.

### **Operations and Deployment**

Operations & Deployment staff consists of sixteen (16) Sheriff, Fire and technical support staff. Eight (8) Sheriff’s Department personnel are assigned, consisting of one (1) lieutenant, two (2) sergeants, four (4) deputies, and one (1) civilian support item. During construction activities, significant effort is focused on subcontractor access and security at construction sites. While this must continue, I have directed a fundamental change in their priorities to that of deployment efforts. With the added focus on the education of public safety and city officials, plus the onboarding and deployment of agencies, an increase in workload is already apparent.

A frequent concern cited by LA-RICS staff is the need for additional Fire Department personnel. Up to this time, only one (1) Battalion Chief has been assigned to represent the Fire/EMS disciplines, resulting in those

**STAKEHOLDERS SAY:  
LA-RICS NEEDS GREATER  
REPRESENTATION FROM THE FIRE  
DEPARTMENT**

disciplines being underrepresented. The Battalion Chief is burdened with a significant workload and responsibilities, impeding our ability to deploy resources to the Fire/EMS disciplines, let alone improve upon our outreach efforts to them. Fortunately, the FY 16/17 budget includes four (4) additional staff consisting of two (2) Fire Captains and two (2) Firefighter Specialists to address this need.

Three (3) technical positions are assigned to Technical Management and are responsible for quality control oversight of facility and system design engineering in addition to System and Network Operations.

The Executive Director and LTE Project Manager are employed via personal consulting services contract with the JPA. Both positions can be terminated anytime with proper advance notice. Given my experience on the job over the past few months, I believe the Executive Director position is a full time, 40-hour a week job.

To date, I find employees have proven to be very productive and can attest to the need for this staffing, particularly with projects of this scale. Existing budgeted staff appears, including additional positions from the Fire Department, appears sufficient for current and anticipated workloads for both the LTE Phase 2 and LMR projects.

An issue of potential concern is that, in past years, workload has periodically ebbed and flowed due to such influences as availability of grant funding or environment delays. The danger is that when activities are temporarily reduced, the threat exists that contract employees may be reassigned to other projects or laid off due to lack of work. The potential threat of losing skilled workers familiar with the program becomes very real. In fact, we are now exposed to that potential as a result of the delayed release of UASI 12 funds. Consequently, effective management of grant and construction timelines becomes extremely important, yet remains challenging due to external complications such as environmental issues, site access, and bureaucratic grant funding processes.

### **Organizational Structure**

Organizational structure is about definition and clarity. Employees must clearly know who to report to and who is responsible. Upon my arrival, I found the existing LA-RICS organizational chart had been more representative of a functional chart that placed an excessive amount of detail-oriented work directly upon the Executive Director, thereby compelling a technical focus. Furthermore, it reflected an excessively large span of control while inadequately addressing accountability throughout the organization. I found it difficult to determine who was responsible

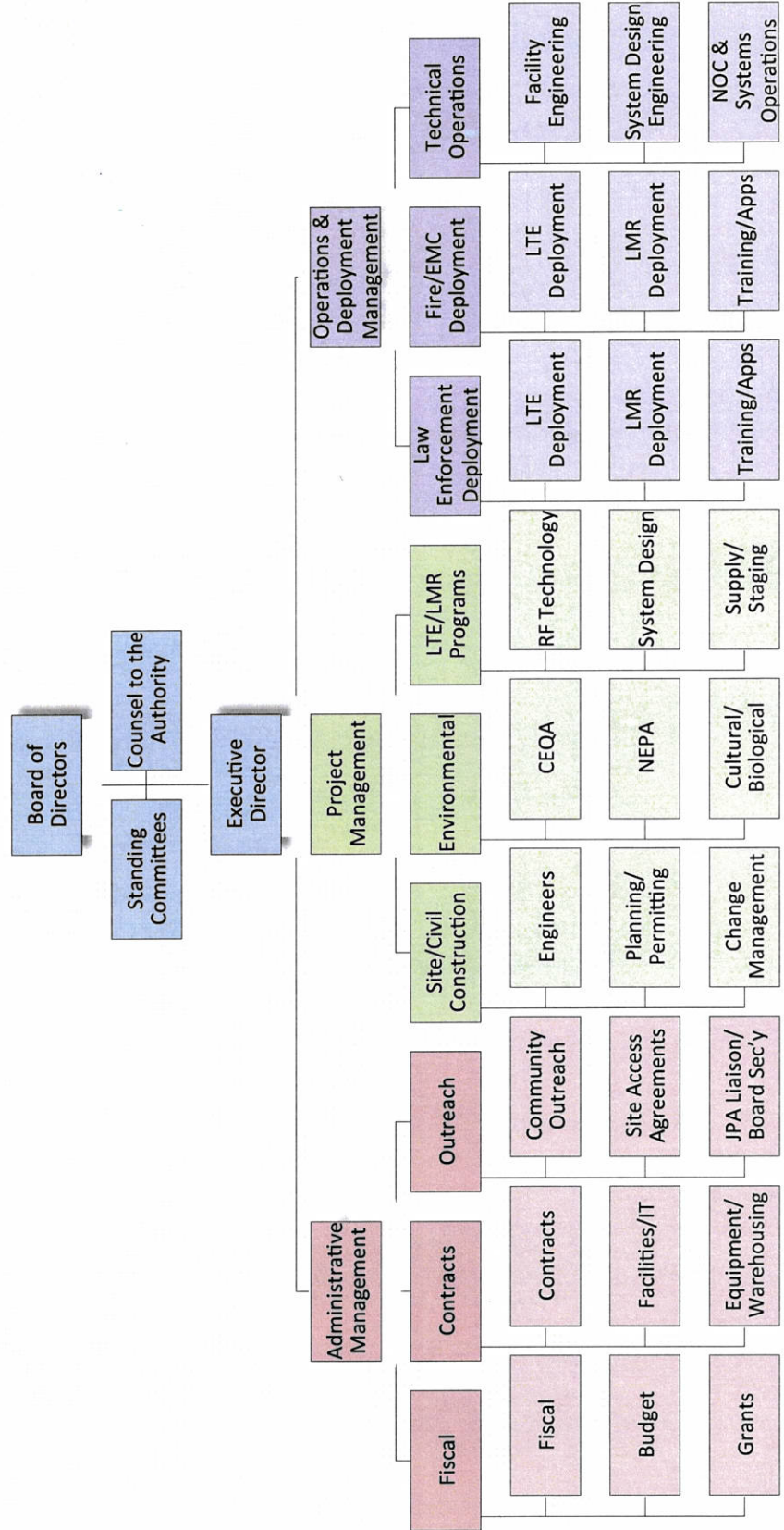
for what during the course of activity, particularly with the significant issues that continually arise. Consequently, the need for clear and distinct organizational accountability was clear.

To establish clearly defined accountability, the span of control was simplified into three functionally distinct divisions: 1) Administrative Management, 2) Project Management, and 3) Operations & Deployment Management. One individual is designated as director for each division, with the exception of Operations, which has two co-directors (one from the Sheriff's Department and one from the Fire Department) for reasons I'll explain later. These Management Directors comprise the executive management team and report directly to the Executive Director.

Each management division is divided into three functionally distinct units, each with a designated unit manager. These unit managers report directly to their respective division managers. All other staff is organizationally assigned according to their related function. Each Management Director and unit manager is tasked with mentoring an individual who can ably serve in their capacity during his/her absence to ensure effective continuity of services. This organizational model establishes a clearly defined chain of command and responsibility while permitting the Executive Director to focus less on technical operations and more on forward planning.

The following organization chart now reflects the responsibilities assigned to the management directors and the managers they are responsible for, and establishes defined accountability. A detailed organizational description then follows.

# LA-RICS ORGANIZATIONAL CHART



## **Board of Directors**

- Standing Committees
  - Finance Committee
  - Technical Committee
  - Operations Committee
  - Legislative Committee
- Counsel to the Authority

## **Executive Director**

The Executive Director is responsible for the overall direction, strategy and management of the LA-RICS Project consistent with the vision of the JPA Board of Directors. As previously noted, this is a full time, 40-hour a week position.

## **Administration Management Director**

The Administrative Management Director is responsible for providing the financial resources and support services to ensure the success of the LA-RICS Project. The Administrative Director is collaterally responsible to serve as Legislative Liaison.

The Director is responsible for overseeing the following units, each under the leadership of a Manager who reports directly to the Director.

- Fiscal Manager
  - Budget
  - Fiscal
  - Grants
- Contracts Manager
  - Contracts
  - Facilities/IT
  - Equipment/Warehousing
- Outreach Manager
  - Community outreach
  - Site Access Agreements
  - JPA Liaison/Board Secretary

## **Project Management Director**

The Project Management Director is responsible for the management and oversight of the development and construction of the LA-RICS Program components (LTE and LMR) pursuant to contract with the LA-RICS Authority.

The Director is responsible for overseeing the following units, each under the

leadership of a Manager who reports directly to the Director.

- Site/Civil (Construction) Manager
  - Engineers
  - Planning/permitting
  - Change management
- LTE/LMR Programs Manager
  - RF technology
  - System design
  - Supply / staging
- Environmental Manager
  - CEQA
  - NEPA
  - Cultural / biological resources

### **Operations and Deployment Management Directors**

The Operations Management Directors represent the first and second responders with the fundamental responsibility of ensuring those critical needs and interests are effectively identified and addressed to ensure stakeholder satisfaction. While there are similarities between law enforcement and fire operations, each discipline has very significant operational differences. Consequently, two co-directors (representing law enforcement and fire) are tasked to lead Operations & Deployment (this also prevents having to place one discipline over the other, or to acquire additional staff to Director).

The Directors are responsible for overseeing the following units, each under the leadership of a Manager, who reports directly to the appropriate co-Director.

- Law Enforcement Deployment Manager
  - LTE Deployment
  - LMR Deployment
  - Training/application research
- Fire/EMS Deployment Manager
  - LTE Deployment
  - LMR Deployment
  - Training/application research/Systems-telecomm engineering
- Technical Operations Manager
  - Facility engineering
  - NOC and System operations
  - System design engineering

## **“SWOT” Analysis**

### Strengths:

- Funding for additional staff has been approved.

### Weaknesses:

- The current lack of sufficient Fire/EMS representation is hindering deployment efforts for those disciplines.

### Opportunities:

- With increased staffing for Fire/EMS, our outreach effort and ability to deploy is expected to become more effective.

### Threats:

- Should workload temporarily diminish due to funding, environmental, or other unforeseen influences, we may lose skill contract staff to other projects, thereby losing experience and knowledge for LA-RICS.



## FINANCES AND FUNDING PLAN

LA-RICS is currently financed by federal grants with some match funds provided by the County of Los Angeles. Although the Funding Plan contains a portion of member contributions, there is significant confusion and concern regarding that Plan, which will be discussed later in this section.

Grant funds have been a historical concern and obstacle toward the completion of LA-RICS, which has been forced to seek grant funding year after

### STAKEHOLDERS SAY: LA-RICS IS CHASING GRANT FUNDS

year. As our grant allocation has been reduced each year, the anticipated project completion date keeps getting pushed back forcing us to seek funds for additional years. Consequently, the common perception is that LA-RICS is “chasing grants,” a view not only held by stakeholders but within LA-RICS itself. The historical reduction of grant funding has also led to the false notion that LA-RICS would become unviable.

In addition, \$59 million intended for the LMR project was “repurposed” from the UASI and SHSGP grant funds, specifically during the 2007 and 2010 grant award periods. This is necessitated by two failed procurement processes, including the passage of HR 3630, and delays in environment assessment requirements.

Funding for the LTE project was obtained through a BTOP grant (NTIA). There is a “cash match” and “in kind” contribution requirement that is met by the County of Los Angeles as a contribution and advance. Grant funding for the LMR project is primarily acquired from UASI (FEMA), with some grant funding by SHSGP (DHS).

### LTE Finances

LA-RICS received its initial grant award from BTOP in 2010 totaling \$154.6 million. With “cash match” and “in kind” contributions included, total funding stands at \$193.5 million. \$55.5 million (\$37.5m grant + \$18m cash match and in-kind) is currently held back for the LTE Phase 2 plan, which is awaiting further review of the Phase II Plan and final approval by NTIA. To date, a total of \$117.5 million has been spent, leaving a balance of \$20.5 million.

BTOP GRANT FUNDING*	
Total award + cash match	\$ 193.5m
Phase 2 hold back	\$ 55.5m
Spent to date	\$ 117.5m
Balance	\$ 20.5m
* Totals are approximate	

## LMR Finances

The LMR project has been funded by two grant sources: UASI and SHSGP. UASI grant funds were first awarded in 2006, while the first SHSGP award was in 2007. To date, a total of \$172 million has been awarded primary by UASI, with a smaller portion by SHSGP. Of that total, LA-RICS has spent \$70 million, and \$59 million repurposed, with a remaining balance of \$43 million.

UASI & SHSGP GRANT FUNDING*	
Total award	\$ 172m
Repurposed	\$ 59m
Spent to date	\$ 70m
Balance	\$ 43m
* Totals are approximate	

## UASI Grant Funding

LA-RICS received its initial grant funding from UASI in 2006. Since that time and up to this year (UASI 2016), LA-RICS has been awarded \$143 million, spent \$55 million, and forfeited \$46 million, with a remaining balance of \$42 million. All repurposed funds had been awarded during UASI 6-10.

UASI ONLY GRANT FUNDING*	
Total award	\$ 143m
Repurposed	\$ 46m
Spent to date	\$ 55m
Balance	\$ 42m
* Totals are approximate	

For UASI 11-14 & UASI 16 (there was no UASI 15 grant award for LA-RICS), a total of \$60 million has been awarded. Of significant note, the UASI 11 award of \$18.2 million was the first successful full expenditure of grant funds since the inception of LA-RICS, only recently occurring in May of this year. This success played a significant role during the May 2016 UASI Approval Authority meeting, which unanimously voted to commit a total of \$105 million for UASI 17, 18, & 19 (should award levels remain at prior historical levels), representing the total requested amount for the anticipated full and complete funding of the LMR project.

## SHSGP Grant Funding

SHSGP grant funds were awarded beginning 2007 and continued through 2015, totaling \$29 million. Unfortunately, \$13 million was repurposed from SHSGP 7, 8 & 9. A total of \$15 million in SHSGP funds were successfully spent. A balance of \$1 million remains.

SHSGP ONLY GRANT FUNDING*	
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Total award	\$ 29m
Repurposed	\$ 13m
Spent to date	\$ 15m
Balance	\$ 1m
* Totals are approximate	

## Grant and Environmental Hurdles

Easily the greatest obstacles to timely performance are related to federal grant and environmental processes. Whereas BTOP funding from NTIA is allocated in one grant sum, UASI funding for the LMR project must be sought annually, which adds a significant degree of complexity to project completion in addition to unknown future funding levels.

In the case of the LTE project, LA-RICS was given a grant award of \$154,640,000 in 2010 for the *full* completion of the LTE project. Funds are held in account and released to LA-RICS as milestones are met. LA-RICS is not reliant upon seeking funding on an annual basis, with its resulting uncertainty. Additionally, LA-RICS interacts directly with the BTOP grant administrators in Washington D.C., providing immediate communication. BTOP has proven to be responsive in its communications channels and has shown willingness to provide partial funds to keep efforts moving as they approve milestones.

In the case of the LMR project, grant funds are awarded annually from FEMA, to CalOES, and then to the LA/LB UASI Authority, which determines how funds are to be allocated to sub-recipients (i.e. LA-RICS). Each year, sub-recipients must return to the UASI Authority to seek additional funding for the following grant period. As LA-RICS is a sub-recipient, it is precluded from communicating directly with FEMA or CalOES as the LA/LB UASI Authority (as administered by the L.A. Mayor’s Office) is the technical grantor, yet has no authority regarding funding availability, construction and environmental requirements, or the extension of deadlines. As a result, LA-RICS is precluded from having direct contact with the approving authority, being FEMA, and communication must go through the LA/LB UASI Authority. Consequently, challenging layers of bureaucracy are inserted into an already burdensome grant processes. While we appreciate the efforts of the L.A. Mayor’s grant staff, they are busy acting as grant administrator for many other grants and we can benefit from improved communications with FEMA..

Another issue relates to environmental processes and approvals. Most notably, FEMA’s approval of the “Finding of No Significant Impact” (FONSI) and the Programmatic Environmental Assessment (PEA) took over two years, significantly impacting LA-RICS ability to maintain forward progress. The reasons appear to be many, however the delays remain excessively long. This previously endangered our ability to successfully spend grant funds that would have resulted in the loss of \$11 million in grant funds. Only with the direct intervention by the Sheriff, Fire Chief,

and County CEO in Washington D.C., at my request, was that scenario averted. Unfortunately, other issues remain.

Unfortunately, we again previously experienced a delay regarding construction waivers from FEMA, and are now experiencing a delay in receipt of the UASI 12 grant extension, which is preventing us from moving forward with construction efforts. Because of the “backlog” of grants requesting extensions, we are awaiting an extension on our UASI 12 grant award, which expired July 31 of this year. However, we have been advised that the extension most likely won’t come until mid-late September 2016, thus further delaying our construction. So, despite the successful effort to have the FONSI approved by FEMA, the next step in their process may result in further delays.

In regards to the annual allocation of grant funds by UASI, it has been the practice not to release funds from any grant year until the previous grant year’s allocation has been *fully* spent. As a long term project, LA-RICS is significantly impacted by this approach resulting in the need to continually seek extensions of the grant performance period while previous grant periods are being resolved, leading to a “stacking” of grant periods. During a recent discussion with FEMA executives, it was discovered that this is a policy of the LA/LB UASI Authority, not FEMA.

The following is a chart that depicts *current* grant awards “in the queue.”

UASI Grant Year	Grant Award	Deadline	Status
UASI 11	\$18,227,388	7/31/16	Closed - full expenditure
UASI 12	\$18,263,579	7/31/16	Awaiting release of funds
UASI 13	\$13,744,067	7/31/16	Extension pending
UASI 14	\$4,997,544	7/31/16	Extension pending
UASI 16	\$5,240,456	3/31/19	

A reason why LA-RICS is “behind the curve” in grant year funding can be largely attributed to the delays experienced in past years, delays related to faulty Request for Proposals, environmental delays, the loss of fire station sites, and the like. The curve simply got worse as the UASI Authority began reducing the annual award amounts due to the inability to spend the grant funds.

**Recommendations:**

- ***Pursue efforts with FEMA to ensure the timely review of environmental documents to avoid unnecessary delays.***
- ***Seek the UASI Approval Authority’s exemption to its annual spending requirement and authorize release of funds approved for subsequent years to prevent unnecessary delays. (Update: following a meeting with LA/LB UASI Approval Authority grant staff, this issue has been resolved)***

**Future LMR Grant Funding**

In May, the LA/LB UASI Approval Authority unanimously approved LA-RICS’ request for \$105 million to fully fund the completion of the LMR project. While there are contingencies to that funding based on prior historical awards being the same, this is the culmination of a ten-year objective.

APPROVED UASI FUTURE FUNDING	
UASI 17	\$ 35m
UASI 18	\$ 35m
UASI 19	\$ 35m
Total Future Funding	\$ 105m
* Totals are approximate	

It must be noted that the greatest challenges facing LA-RICS in the future will be the ability to spend the allotted grant funds within the designated timeframes. These challenges are due to the delays caused by the slow bureaucratic grant spending approval processes at local, state and federal levels. Also, the ability of MSI to promptly gear up for design, engineering and construction has been a continual challenge. LA-RICS staff is communicating with all entities, while managing the anticipated environmental and site access issues, to implement practices that may serve to reduce these delays.

**Funding Plan and Cost Allocation**

The Funding Plan and, most importantly, cost allocation is the single most cited complaint by stakeholders and serves as the fundamental stated reason for membership flight.

**STAKEHOLDERS SAY:  
THE FUNDING PLAN AND AGENCY  
COSTS ARE TOO CONFUSING**

The current Funding Plan must be revised. The assumptions it was based on have changed. Due to continued design changes, costs and funding changes, and membership changes, the Funding Plan has lost its relevance. Moreover, the

confusion surrounding the cost allocation for cities is the single most noted frustration among stakeholders, member and non-member alike. In fact, the Funding Plan and cost allocation models have become disincentives for agencies to participate and are the stated reason for the rash of “opt outs.”

While the County has indeed contributed substantial material and financial resources to LA-RICS, it should balance short-term benefits and long-term benefits. Interestingly enough, stakeholders endorse the idea of a “subscriber” based formula for LA-RICS, although we certainly want to provide benefits to those agencies that have remained steadfast in their support as member agencies.

The County, as the primary user as well as carrying the financial burden, should consider cost recovery based on long-term, not short-term, benefits. The short-term benefit to the current funding plan is that some revenue (albeit miniscule) is being received immediately. But you don’t encourage agencies to join by requiring payments prior to their ability to benefit from its use. If agencies don’t participate, the County will be responsible for these costs anyway. For long-term benefit, we must encourage incentives for agencies to participate. Incentives might include:

1. Rolling back member allocation to the original countywide formula.
2. Keeping those rates fixed despite the number of participating agencies.
3. The County assumes all costs while participating agencies offset County costs through membership or subscriber fees.
4. Forgiveness of the “friendly” contribution that was made by the County to prevent further opt-outs as it would be a County obligation absent participating agencies anyway.

Since this is essentially a County sponsored system that is available to any and all agencies, the cost allocation model should consider fixing the allocation for every city in the county and, should they become a member, that city would be able to readily identify what their cost allocation would be. Alternately, we can develop a subscriber pricing model based on standard “per device” pricing.



***Recommendations:***

- ***The Funding Plan needs to be revised.***
- ***A clear cost allocation formula needs to be developed.***

**“Opt Outs”**

As cities have “opted out”, the proportional share to the remaining members began to rise, increasing the likelihood that it would compel remaining cities to opt-out thereby threatening to create a vicious cycle. Although the County agreed to freeze contribution rates as of October 6, 2015, those rates still reflected the increase from the original “opt-out” period.

It has become necessary to reevaluate the “opt-in” or “opt-out” requirement for membership. As previously mentioned, the most cited cause of concern among agencies is that of cost allocation, an issue that has understandably led members to “opt out.”

The purpose of the “opt out” was to provide agencies the ability to reduce their risk exposure should changes in the Funding Plan’s cost allocation occur. Those changes did occur, prompting numerous opt-outs. However, cities that contract with the County for public safety services also opted-out en masse, even though they knew they would be receiving the services of LA-RICS through their contract public safety partners. Their simple reason is the confusion surrounding the unknown costs to their individual cities in addition to disagreement with the Funding Plan. While merely a statement of political frustration, the result was the appearance of mass defections from LA-RICS. In short, it was a “PR” debacle. There is, however, a distinct need for contract cities/agencies to have a voice in the process. As one contract city manager stated regarding the cost to his city: “It is what it is, but we just want to know what it is.”

Since agencies that contract for Sheriff and/or County Fire services will be attached to LA-RICS simply through their contract relationship, the need to “opt in” or “opt out” is entirely unnecessary, as is the “membership” or “subscriber” requirement. As those agencies are automatically affiliated with LA-RICS through their contractual relationship, they should be considered “Affiliates” of LA-RICS, although consideration would be required in order for them to retain a “seat” on the Board as they would not be titled “member.” As such, the JPA agreement may need to be revisited to address the role of “Affiliates” in the JPA and on the Board, if this option is considered.

Staff and I have been working with the Sheriff’s Department’s Contract Law Enforcement Bureau to determine the impact of LA-RICS on the contract cost model and methods of recovering those costs from the County to support LA-RICS’ operations and maintenance.



***Recommendations:***

- ***Any new funding plan should preclude the “opt in” and “opt out” requirement for contracting cities/agencies, as it is unnecessary.***
- ***As membership or subscription will not be required of contract cities/agencies, they should be considered “Affiliates.”***

## Billing

One of the obligations of membership in LA-RICS has been the requirement to pay membership fees beginning July 1, 2015. Due to the last round of opt-outs and the County's freezing of costs, that date was pushed back to July 1, 2016. Because of the delays in actual deployment of LA-RICS, as well as the widespread confusion regarding cost allocation, we must question the wisdom of billing member agencies anytime prior to deployment. These agencies will be required to maintain and fund their existing communications systems pending their switch to LA-RICS, essentially causing them to pay for two systems, one of which is currently unavailable. It certainly doesn't seem appropriate to begin charging members for these services when LA-RICS is currently unable to deploy the services in many areas, and agencies must continue to pay to maintain and operate their existing system or subscribe to the services of another system. This will only serve as a disincentive for agencies to remain members, as evidenced by the recent spate of "opt outs."



### **Recommendations:**

- ***The initiation of billing for LA-RICS pursuant to the Funding Plan should not commence until the funding plan and cost allocation issue has been revised, is fully clarified and agreed upon.***
- ***Initiation of billing should be contingent upon actual utilization of services by participating agencies.***
- ***There is no need to separately bill contract cities/agencies for Sheriff or Fire services as related costs should be included within the contract rates and can be reimbursed by the County to the LA-RICS' operations and maintenance fund.***

## "SWOT" Analysis

### Strengths:

- With the commitment of the UASI approval Authority, full funding has been acquired to complete the LMR program.

### Weaknesses:

- Funding levels committed for the UASI 17/18/19 grant periods are contingent upon the maintenance of existing federal funding levels but can be adjusted accordingly. The funding level for UASI 17 will be remaining the same, but levels will not be known beyond that for some time.
- Failure to achieve LMR program timelines or expenditures can threaten the UASI Authority's allocation of funding for UASI 17/18/19 as continued funding levels is tied to performance.



Opportunities:

- There is significant opportunity to create incentives for agencies to participate through a significant revision of the Funding Plan and clarification of costs.

Threats:

- The County's potential unwillingness to accept greater potential "risk" regarding any revision to the Funding Plan.
- The City of Los Angeles (grant administrators') requirement to spend previous years grant funds prior to release of funds from subsequent years significantly delays LA-RICS' progress and momentum. (This has now been resolved.)

## RELATIONSHIPS AND MARKETING

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### Relationships

For a variety of reasons, not the least of which are the historical delays in the project, LA-RICS has acquired a tarnished reputation. Frustration is widespread among current and past member agencies as a result of a perceived inability to produce a viable product. A significant lack of confidence in the program exists, in addition to the lack of confidence in its executive leadership. LA-RICS has apparently had such a technical focus that the establishment and *maintenance* of relationships has been largely ignored. However, LA-RICS is a critical project for the region and its reputation can be improved over time with the significant work it is doing to deliver interoperability. An important step in doing this is restoring relationships with the public safety community.

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STAKEHOLDERS SAY:  
LA-RICS HAS LOST ITS CREDIBILITY

One of the issues responsible for our poor perception is a lack of accurate knowledge regarding LA-RICS and the failure to express the value, benefits and actual progress that has been made. In addition to its own internal missteps and external obstacles, misinformation has persistently dogged LA-RICS. Such misinformation, having gone unaddressed, can do as much damage as any truths. On the other hand, had effective education efforts taken place, such misinformation could have been generally negated. To quote a line from the 1967 movie *Cool Hand Luke*, "What we have here is a failure to communicate."

Communication has failed in other regards. Too many stakeholders have commented that LA-RICS had initially contacted them for preliminary work only to have no further contact for a year. When contact was again made, it would be yet another year before further contact. The failure to maintain contact with client cities has left most feeling they have been forgotten causing many to look to the ICI System to fill their voice interoperability needs. A common comment made by public safety executives has been "it's a proven system."

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STAKEHOLDERS SAY:  
THERE HAS BEEN LITTLE OR NO  
COMMUNICATION WITH STAKEHOLDERS

There has been poor understanding of the progress achieved to date by LA-RICS. In addition, there is inadequate understanding of the capabilities of, in particular, the LTE system. However, as I have been frequently meeting with public safety and city personnel, I have been explaining the progress now being made in addition to

demonstrating a small function of the system and have received favorable responses.

The “Operations” aspect of LA-RICS requires a shift in its role. Historically the role of sworn staff has been to represent the system “user,” obviously a fundamental one. That role should include the key responsibility of developing an ongoing and supportive relationship with stakeholders. Sworn staff is now the point of contact to agencies, responsible for frequently contacting and updating stakeholders regarding our progress.

I am taking every available opportunity to meet with various public safety and city representatives to update them regarding the progress and changes at LA-RICS. I specifically tell them that the visit is not a “sales pitch” and that I support ICI System and its efforts. Chris Odenthal, Jacobs Project Manager is now accompanying me and, together, we discuss the objectives of LA-RICS and how it fits into the “system of systems” put forth by the UASI Approval Authority. We are also honest about the challenges and obstacles faced by LA-RICS, but also the benefits it will provide and its healthy future. We have been well received and believe it serves to improve credibility.

### **Outreach and Marketing**

There are two aspects to outreach: 1) outreach to the community, and 2) outreach to public safety. Outreach has generally been viewed as the initial efforts to inform the community as to our intent to build a communications site in their neighborhood and to seek community support. As previously discussed, those efforts relied on the participation of Katz. While sworn staff would often be present, it appears the primary emphasis was more toward the “technical” effort than for the public safety “need.” Outreach to the community has been reactive and not compelling.

There is a difference in telling a homeowner “We’re going to build a big tower near you and it’s for public safety” vs. “Public safety needs improved communications to better protect your home but, to do so, we need to construct a tower near you.” Outreach to the community requires a more convincing public safety approach. Future efforts will entail greater involvement by LA-RICS’ public safety personnel. They must be the primary face of community outreach, only supported by technical staff. Outreach efforts need to be more proactive.

The other aspect to the discussion on outreach focuses on stakeholders. In handwritten notes from February 2011 historical files, it was noted: “Outreach and information to the JPA members is critical and is not occurring! Effective outreach to our members as well as the public to support this project is important.” Unfortunately, five years later it remains the same. In

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**STAKEHOLDERS SAY:  
OUTREACH EFFORTS HAVE  
BEEN POOR AND INEFFECTIVE**

order to overcome the loss of confidence, our outreach efforts must focus on educating the public safety community regarding our vision, the extensive applications offered by our systems, and our progress.

One of the more significant criticisms I heard from stakeholders was the lack of “marketing” by LA-RICS. Indeed, by all accounts, marketing has been not only

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**STAKEHOLDERS SAY:  
THERE IS LITTLE OR NO MARKETING**

inadequate but also nonexistent. What few efforts that have apparently been made appear to have been by verbal description with visual PowerPoint aid, heavily influenced by a technical perspective I would fear. While I have not been witness to any previous efforts, I have seen no evidence of any convincing presentation.

During my first outing with staff to meet with a local police agency, I requested staff be prepared to provide a simple demonstration of the LA-RICS system in order to overcome the common perception that LA-RICS has nothing to show for its efforts. That demonstration proved to be convincing and resulted in that city “opting” back in.

While meeting with JPA Board members, they each stated they had never seen any “product” from LA-RICS. That comment deeply disturbed me for several reasons: 1) LA-RICS did, in fact, have a degree of operational capability, and 2) if our JPA Board members were to effectively represent LA-RICS to other agencies, they must be given with the knowledge to do so. A demonstration was conducted at a subsequent Board meeting and proved to be both beneficial and encouraging. We have since adopted a simple approach to presentations. “Don’t tell. Show!”

LA-RICS Operations staff is now actively pursuing opportunities to conduct demonstrations of the system throughout the County. We are currently scheduling these presentations for the Independent Police and Fire Chief Associations, various local, state and federal governmental representatives, Sheriff and County Fire executive command staff meetings, and regional conferences.

### **Changing the Face of LA-RICS**

As LA-RICS has been in the development mode for such an extended time, it is generally viewed as a technical project. LA-RICS staff has generally been the “face” of LA-RICS. While crucial to the program’s success, technical and administrative staffs are just one of the tools to achieve this public safety goal. This also becomes somewhat apparent during outreach efforts in the community where there is the danger of LA-RICS being viewed primarily as a technical project instead of a public safety necessity. Any and all community outreach efforts or events must be presented with primary emphasis on public safety’s need to better serve the community. Technology is simply the tool to enhance the ability to serve our communities.

Community outreach efforts require visible and vocal public safety representation. The “need” must precede the “what” and public safety personnel can most persuasively present that case. We must ensure the public understands why they need LA-RICS. Consequently, the law enforcement and fire service representatives are being given a greater role in serving as community representatives. In addition, for large public events, the LA-RICS Board of Directors (particularly sworn members) will be enlisted to participate in leadership speaking roles. We must emphasize the message of “why” instead of “what.”

### **Eliminating Reference to Marketing**

LA-RICS will truly be a remarkable communications system with capabilities far surpassing the traditional concept of interoperable voice communications. However, as the “system of systems” concept has been adopted, LA-RICS must not be viewed as trying to “steal business” from other systems.

I am a strong proponent of options, particularly among cities trying to be good stewards of public funds. There is no single system that will fully satisfy the needs of all public safety organizations. That being said, it is important for public safety to possess an accurate understanding of LA-RICS and its capabilities, beyond the perceptions discussed in this document.

Although not necessarily accurate, the term “marketing” implies a sales pitch. But, it is difficult to sell something that nobody has actually seen or touched (as I was often reminded during my interviews), which is the case with LA-RICS. It will prove both difficult and frustrating to “market” LA-RICS under these circumstances, particularly if our intent is to avoid being viewed as trying to be competitive. However, as we conduct demonstrations, agencies have become aware of the progress and services that will be available through LA-RICS, thereby generating enthusiasm. Consequently, we must eliminate use of the term “marketing” and begin using the term “education.”

### **Electronic Communications**

As part of our educational and outreach efforts, the LA-RICS online presence requires attention. As previously mentioned, Katz is responsible for maintaining the LA-RICS website, but greater attention is required. I believe the website requires updating in addition to offering up-to-date information to help convey our renewed energy and progress, provide timely “success” stories, and serve as an educational platform that reveals an expanding vision. But the website is not Katz’ responsibility alone. LA-RICS staff must also be actively involved in providing content as well. In addition, printed informational material is dated and does not reflect LA-RICS’ current efforts and progress.

To resolve these issues, I will be creating a “Communications Group,” tasked with identifying and managing all forms of informational communication: website, social

media, printed stock material, newsletters, email blasts, etc. They will be tasked with identifying and utilizing any and all opportunities to disseminate information regarding LA-RICS and well as ensuring it remains topically up-to-date.

**Recommendation:**

- **Monitor efforts to improve communications to stakeholders through social media.**

**Product Demonstrations**

In the past few months, I have seen some of the capabilities of this system and have been very impressed. With the completion of LTE Phase 1, we can demonstrate its function and performance in most areas (LTE Phase 2 will augment the areas where additional coverage is needed). A pre-deployment of the LMR system has proven successful, albeit currently limited in scope. Subsequently, we are now able to conduct actual demonstrations of both systems. Simple demonstrations of the ability to utilize LMR and LTE, coupled with various devices to seamlessly communicate, have proven effective. Again, our approach will be “Don’t tell. Show!”

**STAKEHOLDERS SAY:  
THERE IS ONLY A BASIC  
IMPRESSION OF THE SYSTEM**

The use of the LTE at this year’s Rose Parade proved to be both successful and impressive. Last year’s deployment at the West Hollywood Halloween Carnival had been equally successful. Unfortunately, our JPA Board members were largely ignored and unable to witness its operation. A



recent demonstration to the Board members proved valuable displaying a sample of our capabilities. Similarly, a recent simple demonstration was partly responsible for a police agency having opted “back in.” Demonstrations are proving to be effective at educating stakeholders regarding LA-RICS’ unique capabilities. They are becoming a major element of our educational outreach efforts.

**Relationship with ICI System**

Another frequent comment from stakeholders was the frustration related to the ongoing

**STAKEHOLDERS SAY:  
THERE IS A POOR RELATIONSHIP  
WITH ICI SYSTEM**

feud between LA-RICS and the ICI System, a relationship that has been historically competitive and contentious. Handwritten historical notes dated April 6, 2007, suggested the need to “tone down” the rhetoric, adding that there is no need to compete for interoperability, a concern that continues to be expressed.

Recent ICI System committee notes include misstatements about LA-RICS that place LA-RICS in an unfavorable light. On the other hand, comments are attributed to LA-RICS as having publicly stated “if you build it, they will come” or “if the T-band take back occurs, the cities will have to come crawling back.” It is clear that there has been historical positioning between LA-RICS and the ICI System that remains unhealthy and unproductive to this day.

What stakeholders have noted is that many of them utilize the services of ICI System and have been pleased with it. ICI System has been operational for many years and is now part of the “system of systems” approach to regional interoperability. I believe the ICI System provides essential interoperability for many agencies and, in order to fully achieve public safety’s goal of complete interoperability, we must change from an attitude of competition to one of cooperation.

A concerted effort is now being made to eliminate the long-standing “rivalry” between LA-RICS and ICI System. ICI System has proven itself over many years to be able to provide much needed services to its member agencies. Consequently, LA-RICS is eager to partner with ICI System by connecting the systems via ISSI, or the device necessary for connection. LA-RICS currently possesses an ISSI for this connection. According to Ray Eady, Executive Director of ICI System, he has included their ISSI in the UASI 16 grant fund request and expects to have it acquired and ready by the latter part of 2017. In the meantime, Ray and I will be regularly meeting to discuss cooperative progress toward this goal which will provide mutual benefit.



***Recommendation:***

- ***Monitor efforts to improve relationships with ICI System.***

**“SWOT” Analysis**

**Strengths:**

- Demonstrations to stakeholders are proving effective (Don’t tell. Show!).

**Weaknesses:**

- Poor relationships and lack of follow-up communication with stakeholders.
- Poor website and social media presence.
- Poor relationship with ICI System.

**Opportunities:**

- Greater public safety focus for community outreach will improve education and understanding.

- Greater JPA presence for LA-RICS outreach to public safety will enhance trust.
- Staff is identifying public media forums to provide greater educational outreach (cable channel, website, newsletters, etc.).
- A high quality educational outreach video is in production.

Threats:

- Failing to improve stakeholder relationships will continue to erode their confidence and support.



## BUSINESS STRATEGY

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There are several significant areas where we are adopting, or must adopt, different strategies to their approach. These largely reflect the areas of concern expressed by the stakeholders and confirmed by my observations. While I will not address the minor areas where such changes have been implemented, I will discuss the essential ones. Some business strategies that have been discussed in previous sections may be repeated here.

### **“Education” vs. “Marketing”**

The word “marketing” implies a competitive effort to sell a product. As previously discussed regarding relationships with ICI System, it must be our intent to foster a “cooperative” not “competitive” approach. Consequently, I have directed staff to replace the term “marketing” with that of “education.” If LA-RICS is to overcome much of the negative perception it has acquired over the years, it must educate stakeholders. That education will provide the knowledge and awareness necessary if agencies are to understand and appreciate the services provided by LA-RICS, whether they choose to utilize those services or not.

Education efforts will include conversations, presentations, and demonstrations among public safety leaders, city officials, and any and all stakeholders, in addition to the public at large. These efforts have become a significant part of our “Operations” management public safety staff. And, as previously mentioned, JPA Board members must play a greater role in representing LA-RICS to not only public safety and city officials, but throughout the community as well.

Easily the most persuasive element we have utilized is the demonstration of the integrated LMR and LTE systems. It not only reveals that LA-RICS does, in fact, have something to show, but that show can be impressive. Demonstrations are being scheduled throughout the County as part of our education campaign.

While our education efforts are part of our business strategy, the most significant change will be in our Deployment Strategy.

### **Deployment Operations**

NTIA has expressed concern regarding the apparent lack of system utilization of the LTE system thus far, a concern that is partly responsible for their hesitancy to release additional funds for LTE Phase 2. They have stated how important it is to see agencies using the system, consequently system utilization has taken on new

urgency. This is the same issue that stakeholders have raised concerning the LMR system, the perception being that LA-RICS has nothing to show for its efforts.

Perhaps the single most significant effort we have initiated is that of deployment. The primary focus of Operations Management will now be the deployment of LMR and LTE functionality.

Deployment includes not only “on-boarding” of agencies but outreach, education and training. As stated before, demonstrations to stakeholders are beginning. We believe this will serve as evidence of the progress being made.

**STAKEHOLDERS SAY:  
THERE HAVE BEEN NO  
TANGIBLE DELIVERABLES**

To reflect this new priority, the “Operations” section of LA-RICS has been renamed “Operations and Deployment.” Public safety staff now accept this as their fundamental responsibility, followed by outreach and training. While their pre-existing duties remain, their new “top priority” is specifically intended to get “users on board.”

Staff is prioritizing efforts to grow the utilization of both the LMR and LTE systems. With the LTE system, the use of smart devices for Band 14 communications has proven very attractive to agencies. We can anticipate even greater enthusiasm when agencies begin using the LTE for data and video as part of their investigative efforts.

Staff is developing strategies to determine appropriate agencies that can be on-boarded. Criteria are determined largely by area of current coverage, project construction timelines and progress, and our ability to equip, train and support these agencies.

The eight LMR “pre-deployment” sites that were constructed last year were a wise decision and currently permit viable LMR operations with reasonable coverage. Specialized investigative units and agencies have begun using the LMR system. While it still does not yet possess the coverage reliability for primary use, it offers significant value for these specialized activities.

As part of this effort, staff has identified logistical issues that delay progress of LTE deployment. Most notably, the installation of routers in vehicles has proven to be a slow process. This is due to the need to “map” the wiring required and acquire the resources necessary to install equipment in vast vehicle fleets. Due to the volume of vehicles, the Sheriff’s and County Fire Department’s have found it necessary to hire contractors to do the installations. Even so, it is proving to be an unacceptably slow process. Both agencies are exploring methods to speed installations. Still, it is a good learning process for identifying issues that user agencies may face.

**Recommendation:**

• **Monitor efforts to deploy resources to participating agencies.** 29

## Applications Development

While the LTE system generated much interest during demonstrations, an added point of interest is the potential for personalized applications. Consequently, staff has been given an additional objective of researching “applications” that can be included with the LTE system. Providing the LTE system with bundled applications is proving attractive. We even intend to encourage participating agencies to develop their own applications that would then be available in the LTE “app store” for other agencies to download and utilize. One agency immediately suggested an application for F.I.’s. To have apps being suggested even before system deployment is certainly encouraging.

## Vision

The closest thing to a “vision” was the original “One system - One voice” that adorned LA-RICS brochures. However, that became irrelevant with the adoption of the “system of systems” concept.

Because of its long-bred technical focus, the goal (by default) for LA-RICS is to “get it built.” The mission has been to construct as many LTE and LMR towers as possible and to spend awarded grant funds so we don’t lose them. Unfortunately, the real reason as to “why” LA-RICS exists has been neglected. This highlights my observation that LA-RICS currently lacks an articulable vision and staff has found it difficult to express one because of the years of being “in the [technical] trenches.”

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**STAKEHOLDERS SAY:  
THERE IS NEED FOR A VISION**

During one of my first executive staff meetings, I asked, “What is our vision?” There was an uncomfortable silence before a couple of individuals offered their suggestions. While good ones, nobody could articulate a common view. One of the fundamental requirements of any successful program or effort is to simply possess a common understanding of “why” we do what we’re doing. In order to gain the trust and confidence of our stakeholders, they must understand our vision.

What is easily overlooked is the expanded scope of the LA-RICS projects. This will provide public safety with capabilities far beyond other areas of the country. Our vision is different now. It has expanded.

We have a great opportunity to reevaluate the LA-RICS vision. In this instance, we shouldn’t look forward but, instead, look back at the changes that have taken place within LA-RICS. While voice interoperability was the initial focus, the focus has significantly expanded with the addition of the LTE project. No longer simply voice interoperability, the addition of the LTE program has given LA-RICS the opportunity to expand the traditional perception of “interoperable communication” by integrating different technologies. As we pursue this effort, staff has become

increasingly excited about its potential applications and possibilities. The view of our mission has expanded, as have our expectations.

I recently called a meeting with LA-RICS' public safety representatives to begin developing an appropriate vision statement that will reflect our current efforts and the benefits of this unique system. Administrative and technical staff was intentionally precluded from participating, as I believe the statement should fully reflect public safety's vision and not a technical perspective. Once a draft vision statement has been developed, it will be presented to the Board for consideration. It is my belief that this will serve to instill greater understanding regarding the significance and benefit that LA-RICS will bring to the public safety community, not only for the benefit of staff but to convey our meaningful purpose to the public safety community at large.

***Recommendation:***

- ***Monitor LA-RICS efforts to develop a clearly stated vision statement.***

### **Sponsorship of LA-RICS**

While it is too soon to fully understand the future staffing needs necessary to support the LMR and LTE systems once construction has been completed, the discussion should soon begin. Perhaps the most significant topic is regarding future sponsorship of LA-RICS. As a multi-agency service provider, LA-RICS should always provide a mechanism for participating agencies to voice their needs and concerns. What isn't clear is if that should be in the form of a joint powers authority, an advisory body, or something else.

What isn't a secret is that Los Angeles County is the lead entity for LA-RICS. During my interviews, many public safety representatives commented that LA-RICS is widely viewed as a "County project" and questioned why it wasn't under the oversight of the Sheriff's Department, expressing support for that concept as well as a subscriber model. While it attempts to have a "hands off" approach, the reality is that the County holds the true financial risk for the program. Consequently there should be consideration for the County to reassert greater ownership of LA-RICS. The following options are merely examples of ownership options. None are intended to be specific proposals, but merely conversation starters.

#### Option 1

One option would be for LA-RICS to remain an independent JPA with an "at will" Executive Director, allowing the Board to recruit and select as it deems appropriate. As this assessment has recommended, this will require a greater degree of Board participation in serving as the "face" of LA-RICS. Despite recent gains in educating our stakeholders, much work remains to be done.

Another variant of this option could be for the Board to contract with the Sheriff's Department to provide a Commander item on contract to serve as Executive Director. This would empower the Board with the ability to approve the selection and "de-selection" of candidates while allowing the Sheriff a degree of flexibility in proposing suitable candidates. This can be achieved with no net cost to the Authority.

### Option 2

Another option would be to place LA-RICS under the direct responsibility of the Sheriff's Department, as this would be the most likely organization to operate and maintain the system in the future. In this instance, the JPA could be either retained with the Sheriff as the Board Chair, dissolved in favor of an advisory body to represent participating agencies, or LA-RICS simply operated as part of the Sheriff's Department. I would advise, at minimum, the retention of some form of representation for participating agencies.

In this case, another consideration should be the "Executive Director" role. The Executive Director could continue to be an "at will" contract employee or, perhaps, the JPA (if retained) could contract with the Sheriff's Department for a Commander level position to serve in the Executive Director role. In this case, the Sheriff could appoint an individual with Board concurrence.

An advantage to this option is the greater degree of political influence, not just locally but nationally, the Sheriff himself brings to the effort. A potential disadvantage is the real or perceived loss of influence by participating agencies.

Lastly, consideration must be given to the impact that any potential action would have on existing and continued grant funding. Could a fundamental change, or any of its forms, pose a potential threat to the loss of grant funds?

Despite any discussion regarding its current or proposed form, there is also the question of what to do with LA-RICS once construction has been completed. The Southern California counties of Orange, Riverside, San Bernardino, San Diego and Imperial each have a countywide interoperable communications system operated by their Sheriff's Department. This structure has proven successful throughout Southern California and the Los Angeles region should prove no different. Staff requirements should be reduced to provide maintenance and billing services. Any need for capital improvements could be coordinated within the County, which has experience with the construction of the Countywide Integrated Radio System (CWIRS).

### **"SWOT" Analysis**

Strengths:

- Agency interest in applications development.

- Outreach educational demonstrations proving very successful.
- Agencies currently utilizing LMR and/or LTE devices have been very pleased.

Weaknesses:

- The installation of routers has been slow and is impeding our ability to deploy LTE in a timely manner.
- Previous “marketing” efforts have been poor or non-existent.

Opportunities:

- Federal interest and participation is growing, which may prove beneficial in addressing grant-funding obstacles.

Threats:

- Failure to increase LTE system utilization may threaten future grant funded support by NTIA.

## **Final Words**

I must conclude with my most significant observations. During these last few months, I have come to truly appreciate the dedication and skill of the entire staff of LA-RICS. They are, indeed, the most impressive collection of employees I have had the pleasure to work with. They have endured some of the most trying circumstances and yet continued to perform with distinction. LA-RICS LTE system is one of only five such efforts nationwide and is also the largest. Combined with the LMR system, they are a unique integration of communications systems that will truly change the way public safety communicates in the future. We can fully expect LA-RICS will prove to be a valuable tool in helping public safety personnel to not only better communicate with each other, but better serve the public as well.

John Radeleff (DBA Radeleff Consulting, Inc.)  
Interim Executive Director, LA-RICS  
September 1, 2016

## 90-DAY SIGNIFICANT EVENTS

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Numerous significant events have been achieved during the past 90 days. While many have been prompted by recent changes, they could only have been achieved through the hard work and dedication of LA-RICS staff. Those events partly include:

- Meetings with 45 stakeholders to identify areas of concern
- Acquired FEMA approval of Finding of No Significant Impact (FONSI) for the Programmatic Environmental Assessment (PEA) following a two-year delay
- Final Environment Impact Report (EIR) issued and certified by the Board
- NTIA grant extension authorized through September 2016 with Congressional Appropriation extension of BTOP funds through 2020
- Acquired \$10 million augmentation (6 months) for the LA-RICS' revolving fund (gap funding)
- Successful spending of the entire UASI 11 grant award funds, totaling \$18 million.
- SB 1008 moving through the State to extend CEQA exemption
- Acquired written commitment from LA/LB UASI Approval Authority to fully fund the requested \$105 million for the completion of LA-RICS' LMR
- Initiating efforts to revise the Funding Plan and cost allocation
- Reorganization of LA-RICS to improve accountability
- Reorganization of Jacobs Engineering's Project Management team.
- Executive staff meetings refocused toward problem identification and solving
- MSI Project Manager now included in executive staff meetings for improved communication
- Monthly meetings with Jacobs and MSI executives to discuss PM performance
- Initiated educational demonstrations for stakeholders
- City of Bell voted to "opt back in" as members of LA-RICS
- Meetings with ICI System Executive Director to create a positive and supportive relationship
- Beginning preparations to connect LA-RICS and ICI System for system interoperability
- Developing a site deployment strategy to better plan for site construction priorities
- Developing a Deployment Plan to on-board users for LTE and LMR systems in a strategic and timely manner.
- Developing of a "Vision" statement for LA-RICS
- Construction Waiver approved by FEMA for UASI 12-16





**LOS ANGELES REGIONAL INTEROPERABLE  
COMMUNICATIONS SYSTEM AUTHORITY**

2525 Corporate Place, Suite 100  
Monterey Park, California 91754  
Telephone: (323) 881-8291  
<http://www.la-rics.org>

JOHN RADELEFF  
INTERIM EXECUTIVE DIRECTOR

September 8, 2016

To: LA-RICS Authority Board of Directors

From: John Radeleff  
Interim Executive Director

**OUTREACH UPDATE**

The purpose of this discussion item is to update your Board on the status of outreach activities pertaining to the Public Safety Broadband Network (PSBN) and Land Mobile Radio (LMR) project. The below meetings occurred since our last report to you:

Municipality	Meeting Date
<i>City of El Segundo</i>	July 26, 2016
<i>Demonstration to Sheriff North Patrol Division</i>	August 1, 2016
<i>Industry Sheriff Station Captain</i>	August 10, 2016
<i>California Contract Cities Association Annual Conference</i>	August 17, 2016
<i>City of Agoura Hills City Manager</i>	August 18, 2016
<i>Agoura Hills City Council</i>	August 24, 2016
<i>City of Signal Hill City Manager &amp; Police Chief</i>	August 25, 2016
<i>Demonstration to Department of Health Services, EMS Staff</i>	August 31, 2016
<i>Demonstration to Sheriff Central Patrol Division</i>	September 1, 2016

Interim Executive Director John Radeleff and representatives from the LA-RICS Team continued their ongoing outreach by meeting with City Officials from El Segundo, Agoura Hills and Signal Hill to discuss shared issues and potential cooperation regarding the LMR and Long Term Evolution (LTE) systems.

The LA-RICS Team attended the California Contract Cities Association Annual Conference at the Arboretum, where staff provided a static display and demonstration to attendees. The event was attended by various Contract Cities representatives.

The Department of Health Services, Emergency Management Services Division (EMS) attended a demonstration at LA-RICS Headquarters where positive feedback was received from staff, including the benefits of PSBN applications that will enhance their paramedic communication, hospital disaster preparedness evacuation plan and their medical alert center teams.

Lastly, ongoing meetings with the LA-RICS Communication Team to discuss recommended changes to our current Outreach Plan are well underway. A plan to develop a new strategy that is focused on establishing a more prominent social media presence, revamping the website and updating all handouts and newsletter materials are the main goal of the team.

WST:pl



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JOHN RADELEFF  
INTERIM EXECUTIVE DIRECTOR

September 8, 2016

LA-RICS Board of Directors  
Los Angeles Regional Interoperable Communications System Authority (the "Authority")

Dear Directors:

**APPROVE AMENDMENT NO. 20 TO AGREEMENT NO. LA-RICS 007 FOR  
LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM –  
LAND MOBILE RADIO SYSTEM**

**SUBJECT**

Board approval is requested to execute Amendment No. 20 to Agreement No. LA-RICS 007 to reflect (1) the reconciliation of nine (9) Land Mobile Radio (LMR) System Sites to reflect the updated LMR System Design; (2) the inclusion of 3D Modeling Work for certain LMR System Sites; (3) remove all Site Lease Exhibit Work and corresponding costs; all actions result in an increase to the Maximum Contract Sum by \$358,794. Amendment No. 20 will be substantially similar in form to the enclosed.

**RECOMMENDED ACTIONS**

It is recommended that your Board:

1. Approve Amendment No. 20 (Enclosure) to Agreement No. LA-RICS 007 for a LMR System with Motorola Solutions, Inc. (Motorola), which revises the Agreement as follows:
  - a. Make changes necessary to reflect the reconciliation for nine (9) LMR System Sites to align with the updated LMR System Design for a cost increase in the amount of \$367,144.
  - b. Include 3D Modeling Work for certain LMR System Sites for a cost increase in the amount of \$6,534.

**AGENDA ITEM G**

2. Remove Site Lease Exhibit Work for certain LMR System Sites and corresponding costs for a cost decrease in the amount of \$14,884.
3. Authorize an increase in the Maximum Contract Sum by \$358,794 (\$367,144 + \$6,534 - \$14,884) when taking the cost increases and decreases into consideration from \$284,877,023 to \$285,235,817.
4. Allow for the issuance of one or more Notices to Proceed for the Work contemplated in Amendment No. 20.
5. Delegate authority to the Interim Executive Director to execute Amendment No. 20, in substantially similar form, to the enclosed Amendment (Enclosure).

### **BACKGROUND**

As your Board is aware, the Authority is working closely with Motorola on the LMR System redesign. As this is an iterative process, the ongoing design work has resulted in the need to reconcile certain Work, equipment, and corresponding costs for certain LMR System Sites to reflect the updated LMR System Design.

### **PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION**

The purpose of the recommended actions is to make changes necessary to (a) reconcile nine (9) LMR System Sites to reflect the updated LMR System Design, (b) include 3D Modeling Work for certain LMR System Sites; (c) remove Site Lease Exhibit Work and corresponding costs for certain LMR System Sites; and (d) all actions resulting in an increase to the Maximum Contract Sum by \$358,794.

As a result of the membership opt-outs and redesign efforts to date, it is necessary to reconcile the Work and equipment at nine (9) LMR System Sites to reflect the updated LMR System Design. Such reconciliations include, but are not limited to, changes in the type of antenna support structure, shelter, generator, battery, etc. Further, the redesign has necessitated changes in the equipment counts and configuration (e.g., antennas, bay stations, equipment racks, and other auxiliary communications equipment) at particular sites to align with the new design.

It is also necessary to include 3D Modeling Work for certain LMR System Sites to assist the Authority with providing certain property owners with comprehensive 3D models of proposed LMR Sites to allay constituent concerns with the LMR buildout.

Lastly, it is necessary to remove Site Lease Exhibit Work and corresponding costs for certain LMR System Sites as this work is no longer necessary. This Work was contemplated in Amendment No. 13 at which time the Authority intended to use such

"Site Lease Exhibits" to secure Site Access Agreements. However, Motorola has since provided the requisite site drawings eliminating the need for "Site Lease Exhibits."

**FISCAL IMPACT/FINANCING**

The activities contemplated in Amendment No. 20 will increase the Maximum Contract Sum by \$358,794 to \$285,235,817, when taking the cost increases and decreases into consideration, and shall be fully reimbursed by the Urban Areas Security Initiative (UASI) grant.

**FACTS AND PROVISIONS/LEGAL REQUIREMENT**

The Authority's counsel has reviewed the recommended action.

**CONCLUSION**

Upon the Board's approval of the recommended actions, the Interim Executive Director, or his designee, will have delegated authority to proceed in a manner described in the recommended action.

Respectfully submitted,



JOHN RADELEFF  
INTERIM EXECUTIVE DIRECTOR

JR:JA:pl

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Enclosure

c: Counsel to the Authority

**AMENDMENT NUMBER TWENTY  
TO AGREEMENT NO. LA-RICS 007  
FOR  
LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM –  
LAND MOBILE RADIO SYSTEM**

**Recitals**

This Amendment Number Twenty (together with all exhibits, attachments, and schedules hereto, "Amendment No. 20") is entered into by and between the Los Angeles Regional Interoperable Communications System Authority ("Authority") and Motorola Solutions, Inc. ("Contractor"), effective as of September \_\_\_\_\_, 2016, based on the following recitals:

Authority and Contractor have entered into that certain Agreement No. LA-RICS 007 for Los Angeles Regional Interoperable Communications System ("LA-RICS") – Land Mobile Radio System, dated as of August 15, 2013 (together with all exhibits, attachments, and schedules thereto, all as amended prior to the date hereof, the "Agreement").

The Agreement has been previously amended by Amendment Number One, effective as of September 5, 2013, to exercise the Unilateral Option for all Work pertaining to Phase 1 (System Design), without the Additive Alternates.

The Agreement has been previously amended by Amendment Number Two, effective as of October 29, 2013, to exercise the Unilateral Option for all Work pertaining to Project Descriptions in Phase 1 (System Design) for the Bounded Area Coverage Additive Alternate.

The Agreement has been previously amended by Amendment Number Three, effective as of December 19, 2013, to, among other things, exercise the Unilateral Option for all Work pertaining to Contractor's provision and implementation of Specified Equipment (as defined in Amendment No. 3) increasing the Maximum Contract Sum to from \$280,354,954 to \$281,640,184.

The Agreement has been previously amended by Amendment Number Four, effective as of December 19, 2013, to, among other things, provide and implement under Phase 1 (System Design) certain additional equipment referred to as "Station B Equipment" increasing the Maximum Contract Sum from \$281,640,184 to \$282,809,231.

The Agreement has been previously amended by Amendment Number Five, effective as of March 27, 2014, to, among other things; include license coordination fees, increasing the Maximum Contract Sum from \$282,809,231 to \$282,829,472.

The Agreement has been previously amended by Amendment Number Six, effective as of April 17, 2014, to, among other things, upgrade to the Los Angeles Police

Department's Valley Dispatch Center's ("LAPDVDC") Uninterruptible Power Supply ("UPS") to accommodate the installation and deployment of Core 2 at this facility, increasing the Maximum Contract Sum from \$282,829,472 to \$282,897,618.

The Agreement has been previously amended by Amendment Number Seven, effective as of May 8, 2014, to, among other things, purchase portable radios, radio accessories, consolettes, and consoles; and to add a provision to address potential joint obligations of Authority and Contractor under the Antennae Lease Agreement dated April 17, 2014, between the City of Los Angeles, the Authority, and Contractor; increasing the Maximum Contract Sum from \$282,897,618 to \$288,074,669.

The Agreement has been previously amended by Amendment Number Eight, effective as of August 28, 2014, to purchase additional portable radios and radio accessories; increasing the Maximum Contract Sum from \$288,074,669 to \$291,745,675.

The Agreement has been previously amended by Amendment Number Nine, effective November 19, 2014, to (a) make changes necessary to reflect the removal of one (1) LMR System Site and all the Work and equipment associated with the removal of this site; (b) make the necessary changes to reflect Phase 1 (System Design) Project Description Work only for twenty-six (26) potential replacement sites; (c) exercise the Unilateral Options for all Work pertaining to Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation) for twenty-six (26) existing LMR System Sites; with no increase to the Maximum Contract Sum.

The Agreement has been previously amended by Amendment Number Ten, effective February 17, 2015, to (a) make the necessary changes to reflect Phase 1 (System Design) Description Work for one (1) potential replacement site; (b) make changes necessary to reflect the removal of four (4) LMR System Sites and all the Work and equipment associated with these sites; (c) make changes necessary to reflect the inclusion of four (4) LMR System Sites and all the Work and equipment associated with these sites and exercise the Unilateral Options for all Work pertaining to Phase 1 (System Design), Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation) for these four (4) LMR System Sites; (d) exercise the Unilateral Options for all Work pertaining to Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation) for eight (8) LMR System Sites currently contemplated in the Design; (e) allow for two power load studies to be conducted; and (f) make other certain changes as reflected in Amendment No. 10, increasing the Maximum Contract Sum by \$1,101,138, from \$291,745,675 to \$292,846,813.

The Agreement has been previously amended by Amendment No. Eleven, effective April 28, 2015, to (a) make the necessary changes to reflect Phase 1 (System Design) Description Work for two (2) potential replacement sites; (b) make changes necessary to reflect an existing credit from Amendment No. 3 in the amount of \$547,158

in Phase 3 (Supply LMR System Components) for one (1) LMR System Site, (c) make changes necessary to add project management costs that were inadvertently omitted in Amendment No. 10 in the amount of \$64,282 in Phase 4 (LMR System Implementation) for one (1) LMR System Site, and (d) make other certain changes as reflected in Amendment No. 11, all of which reduced the Maximum Contract Sum by \$459,529, from \$292,846,813 to \$292,387,284.

The Agreement has been previously amended in Amendment No. Twelve, effective August 27, 2015, to (a) make the necessary changes to reflect the shifting of FCC Licensing Work and costs from Phase 3 (Supply LMR System Components) to Phase 1 (System Design) in the amount of \$284,041; (b) make certain changes to reflect the increase of FCC Licensing Work to contemplate the licensing of all UHF T-Band frequencies as referenced in Attachment B, at each of the applicable subsystem sites in order to achieve compliance with the performance criteria set forth in the Agreement, all in the amount of \$139,076; (c) make the necessary changes to reflect the inclusion of a bridge warranty for the Specified Equipment (Core 1, Core 2, repeater sites, Site on Wheels, and Station B Equipment) previously purchased under Amendment No. 3 and Amendment No. 4, to bridge the gap in warranty for this equipment until such time as Final LMR System Acceptance is achieved in the amount of \$647,533; and (d) to purchase portable radios, radio accessories, consolettes, and a control station for the Los Angeles Sheriff's Department Aero Bureau for purposes of mutual aid in the amount of \$386,234; increasing the Maximum Contract Sum by \$1,172,843 from \$292,387,284 to \$293,560,127.

The Agreement has been previously amended to Amendment No. Thirteen effective October 30, 2015 to make the necessary changes to reflect Phase 1 (System Design) Work to add lease exhibits to twenty-nine (29) LMR System Sites; increasing the Maximum Contract Sum by \$14,888 from \$293,560,127 to \$293,575,015.

The Agreement has been previously amended in Amendment No. Fourteen, effective November 17, 2015, to reflect the Work to reprogram UHF frequencies in accordance with Attachment A and purchase upgraded equipment for the County of Los Angeles Sheriff's Department's (LASD) Station B, as well as the Authority's System on Wheels to prepare for use at certain scheduled events in the amount of \$64,256, increasing the Maximum Contract Sum from \$293,575,015 to \$293,639,271.

The Agreement has been previously amended in Amendment No. Fifteen, effective December 17, 2015, to reflect the inclusion of Phase 1 (System Design) Project Description Work for eleven (11) potential replacement sites in the amount of \$128,414, increasing the Maximum Contract Sum from \$293,639,271 to \$293,767,685.

The Agreement has been previously amended in Amendment No. Sixteen, effective December 23, 2015, to (a) reflect the removal of thirty-one (31) LMR System Sites from the scope of Phase 1 (System Design) Work only for a cost reduction in the amount of \$1,132,374; (b) reflect the inclusion of seventeen (17) LMR System Sites into the scope of Phase 1 (System Design) only which includes all Work associated with the addition of these sites into Phase 1 (System Design) for a cost increase in the amount



of \$635,537; (c) exercise the Unilateral Options for all Work pertaining to Phase 1 (System Design) for seventeen (17) LMR System Sites; (d) include Phase 1 (System Design) Project Description Work only for one (1) potential replacement site (LACF134) for a cost increase in the amount of \$11,674; (e) account for a comprehensive redesign of the LMR System and all associated Work for a cost increase in the amount of \$1,054,440; (f) reflect the removal, relocation, and deployment of the LMR System Core 2 equipment from Los Angeles Police Department Valley Dispatch Center (LAPDVDC) to Palmdale Sheriff Station (PLM) and necessary Work associated with this relocation and for a cost increase in the amount of \$499,912; increasing the Maximum Contract Sum by \$1,069,189 ( $\$635,537 + \$11,674 + \$1,054,440 + \$499,912 - \$1,132,374$  when taking the above cost increases and decreases into consideration) from \$293,767,685 to \$294,836,874.

The Agreement has been previously amended in Amendment No. Seventeen, effective April 25, 2016, as follows:

- (a) Make changes necessary to reflect the removal of thirty-four (34) LMR System Sites from the scope of Phase 1 (System Design), Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation), respectively, and all associated Work of the same for a cost reduction in the amount of \$45,143,083.
- (b) Make the changes necessary to reflect the inclusion of nineteen (19) LMR System Sites into the scope of Phase 1 (System Design), Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation), respectively, and all associated Work of the same for a cost increase in the amount of \$23,677,589.
- (c) Re-baselining of the project management overhead expenses, attributable in the Agreement to each phase of the work that contemplates project management fees, to more accurately reflect the current project scope, and to establish a formula to more accurately price the net impact on project management overhead expenses of any subsequent addition or removal of sites. The re-baseline removes costs on a per site basis to a new per phase deliverable as contemplated in Amendment No. 17 in the amount of \$8,207,108. This re-baselining does however result in a net cost reduction in the amount of \$572,826 which is contemplated in the re-baseline.
- (d) Reconcile equipment necessary for certain LMR System Sites as well as the logging recorder as a result of redesign for a cost increase in the amount of \$3,171,159.
- (e) Exercise the Unilateral Options for all Work pertaining to Phase 1 (System Design), Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation)

respectively, for those LMR System Sites contained in the LMR System reflecting the reconciliation of sites contemplated in Amendment No. 17.

- (e) Decreasing the Maximum Contract Sum by \$10,087,227 ( $-\$45,143,083 + \$23,677,589 + \$8,207,108 + \$3,171,159$ ) when taking the above cost increases and decreases into consideration) from \$294,836,874 to \$284,749,647.
- (f) Make other certain changes as set forth in Amendment No. 17.

The Agreement has been previously amended in Amendment No. Eighteen, effective May 4, 2016, to (a) reflect the inclusion of eight (8) LMR System Sites into the scope of Phase 1 (System Design) Work only which includes all Work associated with the addition of these sites into Phase 1 (System Design) for a cost increase in the amount of \$76,136; (b) exercise the Unilateral Options for all Work pertaining to Phase 1 (System Design) for eight (8) LMR System Sites; (c) reflect the inclusion of Phase 1 (System Design) Project Description Work for four (4) LMR System Sites for a cost increase in the amount of \$46,696; and (d) increasing the Maximum Contract Sum by \$122,832 ( $\$76,136 + \$46,696$ ), when taking the cost increases into consideration from \$284,749,647 to \$284,872,479.

The Agreement has been previously amended in Amendment No. Nineteen, effective May 5, 2016, to make changes necessary to (a) reflect the removal of one (1) LMR System Site from the scope of Phase 1 (System Design), Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation) for a cost reduction in the amount of \$1,192,712, which includes a reduction in the amount of \$20,322 for project management costs for this site; (b) reconcile equipment necessary for certain LMR System Sites as a result of redesign for a cost increase in the amount of \$1,197,256; increasing the Maximum Contract Sum by \$4,544 ( $\$1,197,256 - \$1,192,712$ ), when taking the cost increases and decreases into consideration, from \$284,872,479 to \$284,877,023; and (c) make other certain changes as set forth in Amendment No. 19.

The Authority and Contractor desire to further amend the Agreement to make changes necessary to (a) reconcile nine (9) LMR System Sites to reflect the updated LMR System Design for a cost increase in the amount of \$367,144, (b) include 3D Modeling Work for certain LMR System Sites for a cost increase in the amount of \$6,534; (c) remove Site Lease Exhibit Work for certain LMR System Sites for a cost decrease in the amount of \$14,884; (d) increasing the Maximum Contract Sum by \$358,794 ( $\$367,144 + \$6,534 - \$14,884$ ) from \$284,877,023 to \$285,235,817 when taking the cost increases and decreases into consideration and (e) make other certain changes as set forth in this amendment No. 20.

This Amendment No. 20 is authorized under Section 2 (Changes to Agreement) of the Agreement.

NOW THEREFORE, in consideration of the foregoing recitals, all of which are incorporated as part of this Amendment No. 20, and for other valuable consideration, the receipt and sufficiency of which are acknowledged, Authority and Contractor hereby agree as follows:

1. Capitalized Terms; Section References. Capitalized terms used herein without definition (including in the recitals hereto), have the meanings given to such terms in the Base Document. Unless otherwise noted, section references in this Amendment No. 20 refer to sections of the Base Document, as amended by this Amendment No. 20.
2. LMR System Site Reconciliation. The parties agree and acknowledge to reconcile nine (9) LMR System Sites and all corresponding Work and Components to reflect the updated LMR System Design for these sites. The costs associated with these nine (9) LMR System Sites are included in the relevant portions of Exhibit C (Schedule of Payments). Additionally, pursuant to Section 4.6 of this Amendment No. 20, the detailed costs associated with this reconciliation are contained in the newly incorporated Exhibit C.13 (LMR System Detailed Cost Summary).

<b>RECONCILIATION OF LMR SYSTEM SITES – AMENDMENT NO. 20</b>		
<b>Item No.</b>	<b>Site ID</b>	<b>Site Description</b>
2.1	APC	Airport Courthouse
2.2	BMT	Bald Mountain
2.3	CCB	Compton Court Building
2.4	CCT	Criminal Court (Foltz)
2.5	FCCF	Los Angeles County Fire Command and Control Facility
2.6	HPK	Hauser Peak
2.7	LASDTEM	Los Angeles County Sheriff's Department Temple Station
2.8	LDWP243	DWP Sylmar Water Ladder
2.9	PHN	Puente Hills

3. Removal of Lease Exhibits for Twenty-Nine (29) LMR System Sites. The parties agree and acknowledge that the Contractor shall remove Work consideration to generate lease exhibits for the following twenty-nine (29) LMR System Sites in the LMR System and Phase 1 (System Design).

<b>REMOVAL OF LEASE EXHIBITS FOR LMR EXISTING SITES</b>		
<b>Item No.</b>	<b>Site ID</b>	<b>Site Description</b>
2.1	APC	Airport Court House
2.2	BAH	Baldwin Hills
2.3	BJM	Black Jack Peak
2.4	BMT	Bald Mountain
2.5	CCB	Compton Court Building
2.6	CLM	Claremont

REMOVAL OF LEASE EXHIBITS FOR LMR EXISTING SITES		
Item No.	Site ID	Site Description
2.7	CPK	Castro Peak
2.8	DPK	Dakin Peak
2.9	ENC1	Encinal 1 (Fire Camp 13)
2.10	FCCF	L.A. County Fire Command
2.11	GRM	Green Mountain
2.12	HPK	Hauser Peak
2.13	MLM	Mira Loma Facility
2.14	MMC	Mount McDill
2.15	MVS	Monte Vista (Start Center)
2.16	OAT	Oat Mountain
2.17	OLI	Olinda
2.18	ONK	Oat Mountain Nike
2.19	PHN	Puente Hills
2.20	PSH	Pomona 1620 Hillcrest
2.21	RHT	Rolling Hills Transmit
2.22	RIH	Rio Hondo
2.23	SDW	San Dimas
2.24	SGH	Signal Hill
2.25	SPN	Saddle Peak
2.26	TOP	Topanga Peak
2.27	TPK	Tejon Peak
2.28	TWR	Tower Peak
2.29	WS1	100 Wilshire

4. Amendments to the Base Document.

4.1 Section 8.1.1 of the Base Document is deleted in its entirety and replaced with the following:

8.1.1. The "Maximum Contract Sum" under this Agreement is Two Hundred Eighty-Five Million, Two Hundred Thirty Five Thousand, Eight Hundred Seventeen Dollars (\$285,235,817), which includes the Contract Sum and all Unilateral Option Sums, as set forth in Exhibit C (Schedule of Payments).

4.2 Section 24.4.1 of the Base Document is deleted in its entirety and replaced with the following:

24.4.1 Except for liability resulting from personal injury, harm to tangible property, or wrongful death, Contractor's total liability to the Authority, whether for breach of contract, warranty, negligence, or strict liability in tort, will be limited in the aggregate to direct damages no greater than Two Hundred Seventy-Two Million, Seven Hundred Fifty-Seven Thousand, Two Hundred Eighty Dollars (\$272,757,280). Notwithstanding the foregoing, Contractor

shall not be liable to the Authority for any special, incidental, indirect, or consequential damages.

4. Amendments to Agreement Exhibits.

- 4.1 Exhibit C.1 (LMR System Payment Summary) to Exhibit C (Schedule of Payments) is deleted in its entirety and replaced with Exhibit C.1 (LMR System Payment Summary) to Exhibit C (Schedule of Payments) attached to this Amendment No. 20, which is incorporated by this reference.
- 4.2 Exhibit C.2 (Phase 1 – System Design) to Exhibit C (Schedule of Payments) is deleted in its entirety and replaced with Exhibit C.2 (Phase 1 – System Design) to Exhibit C (Schedule of Payments) attached to this Amendment No. 20, which is incorporated by this reference.
- 4.3 Exhibit C.3 (Phase 2 – Site Construction and Site Modification) to Exhibit C (Schedule of Payments) is deleted in its entirety and replaced with Exhibit C.3 (Phase 2 – Site Construction and Site Modification) to Exhibit C (Schedule of Payments) attached to this Amendment No. 20, which is incorporated by this reference.
- 4.4 Exhibit C.4 (Phase 3 – Supply LMR System Components) to Exhibit C (Schedule of Payments) is deleted in its entirety and replaced with Exhibit C.4 (Phase 3 – Supply LMR System Components) to Exhibit C (Schedule of Payments) attached to this Amendment No. 20, which is incorporated by this reference.
- 4.5 Exhibit C.5 (Phase 4 – LMR System Implementation) to Exhibit C (Schedule of Payments) is deleted in its entirety and replaced with Exhibit C.5 (Phase 4 – LMR System Implementation) to Exhibit C (Schedule of Payments) attached to this Amendment No. 20, which is incorporated by this reference.
- 4.6 Exhibit C.13.1 (LMR System Detailed Cost Summary), dated August 2016, shall be added to Exhibit C.13 (Contractor's Response to Appendix H (Pricing Requirements) to RFP No. LA-RICS 007) to Exhibit C (Schedule of Payments), which is incorporated herein by this reference.

5. This Amendment No. 20 shall become effective as of the date identified in the recitals, which is the date upon which:

- 5.1 An authorized agent of Contractor has executed this Amendment No. 20;
- 5.2 Los Angeles County Counsel has approved this Amendment No. 20 as to form;

- 5.3 The Board of Directors of the Authority has authorized the Executive Director of the Authority, if required, to execute this Amendment No. 20; and
- 5.4 The Executive Director of the Authority has executed this Amendment No. 20.
6. Except as expressly provided in this Amendment No. 20, all other terms and conditions of the Agreement shall remain the same and in full force and effect.
7. Contractor and the person executing this Amendment No. 20 on behalf of Contractor represent and warrant that the person executing this Amendment No. 20 for Contractor is an authorized agent who has actual authority to bind Contractor to each and every term and condition of this Amendment No. 20, and that all requirements of Contractor to provide such actual authority have been fulfilled.
8. This Amendment No. 20 may be executed in one or more original or facsimile counterparts, all of which when taken together shall constitute one in the same instrument.

\* \* \*

**AMENDMENT NUMBER TWENTY  
TO AGREEMENT NO. LA-RICS 007  
FOR  
LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM –  
LAND MOBILE RADIO SYSTEM**

IN WITNESS WHEREOF, the parties hereto have caused this Amendment No. 20 to be executed on their behalf by their duly authorized representatives, effective as of the date first set forth above.

LOS ANGELES REGIONAL  
INTEROPERABLE COMMUNICATIONS  
SYSTEM AUTHORITY

MOTOROLA SOLUTIONS, INC.

By: \_\_\_\_\_

John Radeleff  
Interim Executive Director

By: \_\_\_\_\_

Jim Hardimon  
Motorola Project Director

APPROVED AS TO FORM FOR THE LOS  
ANGELES REGIONAL INTEROPERABLE  
COMMUNICATIONS SYSTEM  
AUTHORITY:

MARY C. WICKHAM  
County Counsel

By: \_\_\_\_\_

Truc L. Moore  
Principal County Counsel

<b>EXHIBIT C.1 - SCHEDULE OF PAYMENTS</b>					
<b>LMR SYSTEM PAYMENT SUMMARY</b>					
<b>Summary</b>	<b>Unilateral Option Sum</b>	<b>Used Credits (Note 2)</b>	<b>Contract Sum - Full Payable Amount</b>	<b>10% Holdback Amount</b>	<b>Payment Minus 10% Holdback Amount</b>
<b>Phase 1</b> <sup>(Note 1)</sup>	\$ -	\$ 9,517	\$ 43,510,768	\$ 3,121,954	\$ 40,319,764
<b>Phase 2</b>	\$ -	\$ 337,720	\$ 37,354,089	\$ 3,626,019	\$ 33,728,070
<b>Phase 3</b>	\$ -	\$ 212,620	\$ 45,725,759	\$ 3,404,387	\$ 42,321,372
<b>Phase 4</b>	\$ -	\$ -	\$ 27,835,912	\$ 2,553,141	\$ 23,611,987
<b>SUBTOTAL (Phases 1 to 4):</b>	\$ -	\$ 256,333	\$ 154,426,528	\$ 12,705,501	\$ 139,981,193
<b>Phase 5 (15 Years)</b>	\$ 55,898,518	\$ -	\$ -	\$ -	\$ 55,898,518
<b>TOTAL (Phases 1 to 5):</b>	\$ 55,898,518	\$ 256,333	\$ 154,426,528	\$ 12,705,501	\$ 195,879,711
Bounded Area Coverage Additive Alternate <sup>(Note 1)</sup>	\$ 19,109,375	\$ -	\$ -	\$ 1,910,937	\$ 17,198,437
Mandatory Building Coverage Additive Alternate	\$ 29,828,448	\$ -	\$ -	\$ 2,982,845	\$ 26,845,603
Metrorail Coverage Additive Alternate	\$ 4,792,260	\$ -	\$ -	\$ 479,226	\$ 4,313,034
LMR System Maintenance for Additive Alternates	\$ 19,620,355	\$ -	\$ -	\$ 1,962,036	\$ 17,658,320
Source Code Software Escrow	\$ 1,304,000	\$ -	\$ -	\$ 130,400	\$ 1,173,600
<b>SUBTOTAL</b>	\$ 130,552,956	\$ 256,333	\$ 154,426,528	\$ 20,170,945	\$ 263,068,705
<b>TOTAL CONTRACT SUM:</b>	<b>\$154,426,528</b>				
<b>MAXIMUM CONTRACT SUM (Total Unilateral Option Sum plus Total Contract Sum):</b>	<b>\$285,235,817</b>				
<p>Note 1: The cost for the Project Descriptions for the Bounded Area Coverage <u>only</u> are reflected in Exhibit C.2 (Phase 1 - System Design) as amended and restated in Amendment No. 2., and included (\$173,110) in Phase 1 Contract Sum - Full Payable Amount. The balance of the remaining Unilateral Option Sum for Bounded Area Coverage Additive Alternate Work is reflected in Exhibit C.7 (Bounded Area Coverage Additive Alternate).</p>					
<p>Note 2: Credits for Phases 1 through 4 were realized for the removal of 1 LMR System Site in the amount of \$646,001. However, the cost for preparing Project Descriptions for 26 potential replacement sites in the amount of \$303,524 was taken from the Credits. The remaining Credit balance of \$342,477 is reserved for use for a future replacement site.</p>					



**EXHIBIT C.2 - SCHEDULE OF PAYMENTS**  
**PHASE 1 - SYSTEM DESIGN**

Deliverable/Task / Section No. <i>(Exhibit A, Exhibit B, or Base Document)</i>	Site ID	Deliverable	Unilateral Option Sum <i>(Notes 3, 5, 6, 7, 8, 9)</i>	Credits <i>(Note 11)</i>	Contract Sum - Payable Amount for Phase 1 <i>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</i>	10% Holdback Amount	Payable Amount Less 10% Holdback
A.1.1		Project Management Staffing Plan Delivered	-	-	Included	\$ -	\$ -
A.1.2		Overview and Scope Delivered	-	-	Included	\$ -	\$ -
A.1.3		Communications Plan Delivered	-	-	\$ 67,233	\$ 6,723	\$ 60,510
A.1.4		Initial Integrated Master Schedule Delivered	-	-	\$ 89,644	\$ 8,964	\$ 80,680
A.1.5		Documentation Plan Delivered	-	-	Included	\$ -	\$ -
A.1.6		Quality Control Plan Delivered	-	-	\$ 67,233	\$ 6,723	\$ 60,510
A.1.7		Change Order/Change Management Plan Delivered	-	-	Included	\$ -	\$ -
A.1.8		Initial Risk Management Plan Delivered	-	-	\$ 89,644	\$ 8,964	\$ 80,680
A.1		Project Management Plan - Final	-	-	\$ 112,055	\$ 11,206	\$ 100,850
B.1.6		FCC License and Application Forms	-	-	Included	\$ -	\$ -
B.1.12		Coverage Modeling Tool and Training	-	-	Included	\$ -	\$ -
B.1.14.1		Detailed Project Description - 50% of sites	-	-	\$ 1,368,583	\$ 136,858	\$ 1,231,725
B.1.14.1		Detailed Project Description - Final 50% of Sites	-	-	\$ 1,368,583	\$ 136,858	\$ 1,231,725
B.1.14.2		RF Emission Safety Report Delivered	-	-	Included	\$ -	\$ -
B.1.14.3.3.29.1		DTVRS Design – Digital Trunked Voice Radio Subsystem:	-	-	\$ -	\$ -	\$ -
B.1.14.3.3.29.1		80% DTVRS Design – Digital Trunked Voice Radio Subsystem	-	-	\$ 1,965,745	\$ -	\$ 1,965,745
B.1.14.3.3.29.1		20% DTVRS Design – Digital Trunked Voice Radio Subsystem	-	-	\$ 491,436	\$ 245,718	\$ 245,718
B.1.14.3.3.29.2		ACVRS Design – Analog Conventional Voice Radio Subsystem:	-	-	\$ -	\$ -	\$ -
B.1.14.3.3.29.2		Subsystem	-	-	\$ 446,491	\$ -	\$ 446,491
B.1.14.3.3.29.2		Subsystem	-	-	\$ 111,623	\$ 55,811	\$ 55,812
B.1.14.3.3.29.3		LARTCS Design – Los Angeles Regional Tactical Communications Subsystem:	-	-	\$ -	\$ -	\$ -
B.1.14.3.3.29.3		80% LARTCS Design – Los Angeles Regional Tactical Communications Subsystem	-	-	\$ 486,144	\$ -	\$ 486,144
B.1.14.3.3.29.3		20% LARTCS Design – Los Angeles Regional Tactical Communications Subsystem	-	-	\$ 121,535	\$ 60,768	\$ 60,767
B.1.14.3.3.29.4		NMDN Design – Narrowband Mobile Data Network	-	-	\$ -	\$ -	\$ -
B.1.14.3.3.29.4		80% NMDN Design – Narrowband Mobile Data Network	-	-	\$ 113,646	\$ -	\$ 113,646
B.1.14.3.3.29.4		20% NMDN Design – Narrowband Mobile Data Network	-	-	\$ 28,412	\$ 14,206	\$ 14,206
B.1.14.3.3.29.5		Consoles Design	-	-	Included	\$ -	\$ -
B.1.14.3.3.29.6		Logging Recorder Description	-	-	Included	\$ -	\$ -
B.1.14.3.3.29.7		Site Interconnection/Backhaul Subsystem Description:	-	-	\$ -	\$ -	\$ -
B.1.14.3.3.29.7		80% Site Interconnection/Backhaul Subsystem Description:	-	-	\$ 170,323	\$ -	\$ 170,323
B.1.14.3.3.29.7		20% Site Interconnection/Backhaul Subsystem Description:	-	-	\$ 42,581	\$ 21,290	\$ 21,291
B.1.14.3.3.29.8		System Management and Monitoring Subsystem Description	-	-	Included	\$ -	\$ -
B.1.14.3.3.29.9		Inventory and Maintenance Tracking Subsystem Description	-	-	Included	\$ -	\$ -
B.1.14.3		LMR Final System Design Approval <sup>(Note 1)</sup>	-	-	\$ 757,702	\$ 75,770	\$ 681,932
B.1.15		Inventory and Maintenance Tracking Subsystem	-	-	\$ 974,026	\$ 97,403	\$ 876,623
Base.22.3.2		Project Management for Phase 1 – System Design Monthly Reports	-	-	Included	\$ -	\$ -
Base.22.2.1		Performance Bond for Phase 1 – System Design	-	-	\$ 29,774	\$ -	\$ 29,774
Base.22.2.1		Total Lease Costs for Phase 1 – System Design	-	-	\$ -	\$ -	\$ -
Base.22.2.1		Liability Insurance (General and Professional)	-	-	\$ 527,500	\$ -	\$ 527,500
<b>LMR SYSTEM SITES</b>							
B.1.14.5		Site Design Review Packages 75% Zoning Submittal by Site <sup>(Note 2)</sup>	-	-	\$ -	\$ -	\$ -
B.1.14.5	BAH	Baldwin Hills	-	-	\$ (3)	\$ (0)	\$ (3)
B.1.14.5	BJM	Black Jack Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	BMT	Bald Mountain	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	BRK	Blue Rock	-	-	\$ -	\$ -	\$ -
B.1.14.5	BUR	Burnt Peak	-	-	\$ -	\$ -	\$ -
B.1.14.5	BVG	Beverly Glen	-	-	\$ -	\$ -	\$ -
B.1.14.5	CCB	Compton Court Building	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	CEP	Century Plaza	-	-	\$ -	\$ -	\$ -
B.1.14.5	CLM	Claremont	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	CPK	Castro Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	DPK	Dakin Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	ELSGDPD	El Segundo PD	-	-	\$ -	\$ -	\$ -
B.1.14.5	ENC1	Encinal 1 (Fire Camp)	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	GRM	Green Mountain	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	HPK	Hauser Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	JPK	Johnstone Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LACF028	FS 28	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF056	FS 56	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF071	FS 71	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF072	FS 72	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LACF077	FS 77	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF084	FS 84	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF091	FS 91	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF099	FS 99	-	-	\$ -	\$ -	\$ -

**EXHIBIT C.2 - SCHEDULE OF PAYMENTS**  
**PHASE 1 - SYSTEM DESIGN**

Deliverable/Task / Section No. <i>(Exhibit A, Exhibit B, or Base Document)</i>	Site ID	Deliverable	Unilateral Option Sum <i>(Notes 3, 5, 6, 7, 8, 9)</i>	Credits <i>(Note 11)</i>	Contract Sum - Payable Amount for Phase 1 <i>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</i>	10% Holdback Amount	Payable Amount Less 10% Holdback
B.1.14.5	LACF119	FS 119	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF144	FS 144	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF149	FS 149	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF157	FS 157	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACF196	FS 169	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACFCP09	CP-9	-	-	\$ -	\$ -	\$ -
B.1.14.5	LACFDEL	Del Valle Training	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LAH	LA City Hall	-	-	\$ -	\$ -	\$ -
B.1.14.5	LBR	Lower Blue Ridge	-	-	\$ -	\$ -	\$ -
B.1.14.5	LDWP243	DWP Sylmar Water Ladder	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	MAM	Magie Mountain	-	-	\$ -	\$ -	\$ -
B.1.14.5	MDI	Mount Disappointment	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	MLE	Mount Lee	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	MLM	Mira Loma Facility	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	MMC	Mount McDill	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	MFL	Mount Lukens	-	-	\$ -	\$ -	\$ -
B.1.14.5	MTF	Mount Thom	-	-	\$ -	\$ -	\$ -
B.1.14.5	MTW	Mount Washington	-	-	\$ -	\$ -	\$ -
B.1.14.5	MVS	Monte Vista (Star Center)	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	OMC	Oat Mountain	-	-	\$ -	\$ -	\$ -
B.1.14.5	OAT	Oat Mountain	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	ONK	Oat Mountain Nike	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	PHN	Puente Hills	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	PRG	Portal Ridge	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	PSH	Pomona 1620 Hillcrest	-	-	\$ -	\$ -	\$ -
B.1.14.5	RDNBPD	Redondo Beach PD	-	\$ 7,138	\$ -	\$ -	\$ -
B.1.14.5	RHT	Rolling Hills Transmit	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	RIH	Rio Hondo	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	RPVE001	Rancho Palos Verdes City Hall	-	-	\$ -	\$ -	\$ -
B.1.14.5	SAG	San Augustine	-	-	\$ -	\$ -	\$ -
B.1.14.5	SDW	San Dimas	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	SGH	Signal Hill	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	SPC	San Pedro Hill	-	-	\$ -	\$ -	\$ -
B.1.14.5	SPN	Saddle Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	SUN	Sunset Ridge	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	SVP	San Vicente Peak	-	-	\$ -	\$ -	\$ -
B.1.14.5	SWP	Southwest Area Station	-	-	\$ -	\$ -	\$ -
B.1.14.5	TOP	Topanga Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	TPK	Tejon Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	TWR	Tower Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	VPC	Verdugo Peak	-	-	\$ -	\$ -	\$ -
B.1.14.5	WAD	Walker Drive	-	-	\$ -	\$ -	\$ -
B.1.14.5	WMP	Whitaker Middle Peak	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	WS1	100 Wilshire	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	WTR	Whittaker Ridge	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LAPD077	77TH Street Area Complex	-	-	\$ -	\$ -	\$ -
B.1.14.5	LAPDDVN	Devonshire Area station	-	-	\$ -	\$ -	\$ -
B.1.14.5	FCCF	L.A. County Fire Command	-	-	\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LAPDVDC	Valley Dispatch Center	-	-	\$ -	\$ -	\$ -
B.1.14.6		Permit Approval by Site <sup>(Note 2)</sup>	-	-	\$ -	\$ -	\$ -
B.1.14.6	BAH	Baldwin Hills	-	-	\$ -	\$ -	\$ -
B.1.14.6	BJM	Black Jack Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	BMT	Bald Mountain	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	BUR	Blue Rock	-	-	\$ -	\$ -	\$ -
B.1.14.6	BRK	Burnt Peak	-	-	\$ -	\$ -	\$ -
B.1.14.6	BVG	Beverly Glen	-	-	\$ -	\$ -	\$ -
B.1.14.6	CCB	Compton Court Building	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	CEP	Century Plaza	-	-	\$ -	\$ -	\$ -
B.1.14.6	CLM	Claremont	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	CPK	Castro Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	DPK	Dakin Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	ELSGDPD	El Segundo PD	-	-	\$ -	\$ -	\$ -
B.1.14.6	ENC1	Encinal 1 (Fire Camp)	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	GRM	Green Mountain	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	HPK	Hauser Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	JPK	Johnstone Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LACF028	FS 28	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF056	FS 56	-	-	\$ -	\$ -	\$ -

**EXHIBIT C.2 - SCHEDULE OF PAYMENTS**  
**PHASE 1 - SYSTEM DESIGN**

Deliverable/Task / Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable	Unilateral Option Sum <small>(Notes 3, 5, 6, 7, 8, 9)</small>	Credits <small>(Note 11)</small>	Contract Sum - Payable Amount for Phase 1 <small>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback
B.1.14.6	LACF071	FS 71-	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF072	FS 72	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LACF077	FS 77-	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF084	FS 84-	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF091	FS 91-	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF099	FS 99-	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF0119	FS 119-	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF144	FS 144	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF149	FS 149-	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF157	FS 157	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACF169	FS 169-	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACFCP09	CP 9	-	-	\$ -	\$ -	\$ -
B.1.14.6	LACFDEL	Del Valle Training	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LAHE	LA City Hall	-	-	\$ -	\$ -	\$ -
B.1.14.6	LBR	Lower Blue Ridge	-	-	\$ -	\$ -	\$ -
B.1.14.6	LDWP243	DWP Sylmar Water Ladder	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	MAM	Magic Mountain	-	-	\$ -	\$ -	\$ -
B.1.14.6	MDI	Mount Disappointment	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	MLE	Mount Lee	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	MLM	Mira Loma Facility	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	MMC	Mount McDill	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	MTL	Mount Lukens	-	-	\$ -	\$ -	\$ -
B.1.14.6	MTH	Mount Thom	-	-	\$ -	\$ -	\$ -
B.1.14.6	MTW	Mount Washington	-	-	\$ -	\$ -	\$ -
B.1.14.6	MVS	Monte Vista (Star Center)	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	OMC	Oat Mountain	-	-	\$ -	\$ -	\$ -
B.1.14.6	OAT	Oat Mountain	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	ONK	Oat Mountain Nike	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	PHN	Puente Hills	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	PRG	Portal Ridge	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	PSH	Pomona 1620 Hillcrest	-	-	\$ -	\$ -	\$ -
B.1.14.6	RDNBPD	Redondo Beach PD	\$ 2,379	\$ -	\$ -	\$ -	\$ -
B.1.14.6	RHT	Rolling Hills Transmit	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	RIH	Rio Hondo	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	RPVE001	Rancho Palos Verdes City Hall	-	-	\$ -	\$ -	\$ -
B.1.14.6	SAG	San Augustine	-	-	\$ -	\$ -	\$ -
B.1.14.6	SDW	San Dimas	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	SGH	Signal Hill	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	SPC	San Pedro Hill	-	-	\$ -	\$ -	\$ -
B.1.14.6	SPN	Saddle Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	SUN	Sunset Ridge	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	SVP	San Vicente Peak	-	-	\$ -	\$ -	\$ -
B.1.14.6	SWP	Southwest Area Station	-	-	\$ -	\$ -	\$ -
B.1.14.6	TOP	Topanga Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	TPK	Tejon Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	TWR	Tower Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	VPC	Verdugo Peak	-	-	\$ -	\$ -	\$ -
B.1.14.6	WAD	Walker Drive	-	-	\$ -	\$ -	\$ -
B.1.14.6	WMP	Whitaker Middle Peak	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	WS1	100 Wilshire	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	WTR	Whittaker Ridge	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LAPD077	77TH Street Area Complex	-	-	\$ -	\$ -	\$ -
B.1.14.6	LAPDDVN	Devonshire Area station	-	-	\$ -	\$ -	\$ -
B.1.14.6	FCCF	L.A. County Fire Command	-	-	\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LAPDVDC	Valley Dispatch Center	-	-	\$ -	\$ -	\$ -
<b>Subtotal for Phase 1:</b>			<b>\$ -</b>	<b>\$ 9,517</b>	<b>\$ 9,763,005</b>	<b>\$ 920,573</b>	<b>\$ 8,842,432</b>
<b>ADDITIONAL SITES (AMENDMENT NO. 10)</b>							
<b>B.1.14.5</b>		<b>Site Design Review Packages 75% Zoning Submittal by Site</b>					
B.1.14.5	APC	Airport Courthouse			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	BHCCPRK	Beverly Hills' Coldwater Canyon Park			\$ -	\$ -	\$ -
B.1.14.5	LACF136	FS 136			\$ -	\$ -	\$ -
B.1.14.5	LAHE	LA City Hall East			\$ -	\$ -	\$ -
B.1.14.5	OLI	Olinda			\$ 7,138	\$ 714	\$ 6,424
<b>B.1.14.6</b>		<b>Permit Approval by Site</b>					
B.1.14.6	APC	Airport Courthouse			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	BHCCPRK	Beverly Hills' Coldwater Canyon Park			\$ -	\$ -	\$ -
B.1.14.6	LACF136	FS 136			\$ -	\$ -	\$ -
B.1.14.6	LAHE	LA City Hall East			\$ -	\$ -	\$ -

**EXHIBIT C.2 - SCHEDULE OF PAYMENTS  
PHASE 1 - SYSTEM DESIGN**

Deliverable/Task / Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable	Unilateral Option Sum <small>(Notes 3, 5, 6, 7, 8, 9)</small>	Credits <small>(Note 11)</small>	Contract Sum - Payable Amount for Phase 1 <small>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback
B.1.14.6	OLI	Olinda			\$ 2,379	\$ 238	\$ 2,141
<b>Subtotal for Additional Sites (Amendment No. 10)</b>			\$ -	\$ -	\$ 19,034	\$ 1,903	\$ 17,131
<b>ADDITIONAL SITES (AMENDMENT NO. 16)</b>							
<b>B.1.14.5</b>	<b>Site Design Review Packages 75% Zoning Submittal by Site</b>						
B.1.14.5	AGH	Agoura Hills			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	CCT	Criminal Court (Foltz)			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	CRN	Cerro Negro			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	FRP	Frost Peak (Upper Blue Ridge)			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	GMT	Grass Mountain			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	H17A	H-17 Helipad			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LASDTEM	Los Angeles County Sheriff Temple Station			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LPC	Loop Canyon			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LEPS	Lower Encinal Pump Station			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	MIR	Mirador			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	MML	Magic Mountain Link			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	MTL2	Mount Lukens 2			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	PDC	Pacific Design Center			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	PLM	Los Angeles County Palmdale Sheriff Station			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	PMT	Pine Mountain			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	PWT	Portthead Tank			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	VPK	Verdugo Peak County			\$ 7,138	\$ 714	\$ 6,424
<b>B.1.14.6</b>	<b>Permit Approval by Site</b>						
B.1.14.6	AGH	Agoura Hills			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	CCT	Criminal Court (Foltz)			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	CRN	Cerro Negro			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	FRP	Frost Peak (Upper Blue Ridge)			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	GMT	Grass Mountain			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	H17A	H-17 Helipad			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LASDTEM	Los Angeles County Sheriff Temple Station			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LPC	Loop Canyon			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LEPS	Lower Encinal Pump Station			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	MIR	Mirador			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	MML	Magic Mountain Link			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	MTL2	Mount Lukens 2			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	PDC	Pacific Design Center			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	PLM	Los Angeles County Palmdale Sheriff Station			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	PMT	Pine Mountain			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	PWT	Portthead Tank			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	VPK	Verdugo Peak County			\$ 2,379	\$ 238	\$ 2,141
<b>Subtotal for Additional Sites (Amendment No. 16)</b>			\$ -	\$ -	\$ 161,789	\$ 16,179	\$ 145,610
<b>ADDITIONAL SITES (AMENDMENT NO. 17)</b>							
<b>B.1.14.5</b>	<b>Site Design Review Packages 75% Zoning Submittal by Site</b>						
B.1.14.5	BUR1	Burnt Peak 1			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	LARICSHQ	LA-RICS Headquarters			\$ 7,138	\$ 714	\$ 6,424
<b>B.1.14.6</b>	<b>Permit Approval by Site</b>						
B.1.14.6	BUR1	Burnt Peak 1			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	LARICSHQ	LA-RICS Headquarters			\$ 2,379	\$ 238	\$ 2,141
<b>Subtotal for Additional Sites (Amendment No. 17)</b>			\$ -	\$ -	\$ 19,034	\$ 1,903	\$ 17,131
<b>ADDITIONAL SITES (AMENDMENT NO. 18)</b>							
<b>B.1.14.5</b>	<b>Site Design Review Packages 75% Zoning Submittal by Site</b>						
B.1.14.5	BHS	Baldwin Hills County			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	BKK	BKK Landfill			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	DPW38	Los Angeles County DPW Water Tank			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	POM	Pomona Courthouse			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	RPV001A	Rancho Palos Verdes ECC			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	SMMC	Santa Monica/UCLA Medical Center			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	UCLA	UCLA (Factor Building)			\$ 7,138	\$ 714	\$ 6,424
B.1.14.5	WWY	Winding Way			\$ 7,138	\$ 714	\$ 6,424
<b>B.1.14.6</b>	<b>Permit Approval by Site</b>						
B.1.14.6	BHS	Baldwin Hills County			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	BKK	BKK Landfill			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	DPW38	Los Angeles County DPW Water Tank			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	POM	Pomona Courthouse			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	RPV001A	Rancho Palos Verdes ECC			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	SMMC	Santa Monica/UCLA Medical Center			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	UCLA	UCLA (Factor Building)			\$ 2,379	\$ 238	\$ 2,141
B.1.14.6	WWY	Winding Way			\$ 2,379	\$ 238	\$ 2,141

**EXHIBIT C.2 - SCHEDULE OF PAYMENTS  
PHASE 1 - SYSTEM DESIGN**

Deliverable/Task / Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable	Unilateral Option Sum <small>(Notes 3, 5, 6, 7, 8, 9)</small>	Credits <small>(Note 11)</small>	Contract Sum - Payable Amount for Phase 1 <small>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback
<b>Subtotal for Additional Sites (Amendment No. 18)</b>			\$ -	\$ -	\$ 76,136	\$ 7,614	\$ 68,522
<b>CORE 1 AND REPEATER SITES (AMENDMENT NO. 3)</b>							
B.1.14.6		Core 1 Hardware and Software	-	-	\$ 11,645,162	\$ 1,164,516	\$ 10,480,646
		Core T1 Interface Equipment	-	-	\$ 49,878	\$ 4,988	\$ 44,890
		NMS AC Power	-	-	\$ 1,308	\$ 131	\$ 1,177
		FCC License Application Preparation	-	-	\$ 7,500	\$ 750	\$ 6,750
		Remote Site AC Power	-	-	\$ 7,848	\$ 785	\$ 7,063
B.3.2 to B.3.6		Five DTVRS UHF 11 Channel ASTRO 25 Sites	-	-	\$ 1,144,758	\$ 114,476	\$ 1,030,282
B.3.2 to B.3.6		Three DTVRS 700 MHz 6 Channel ASTRO 25 Sites	-	-	\$ 404,440	\$ 40,444	\$ 363,996
B.3.2 to B.3.6		Three MCC 7500 Consoles for DTVRS	-	-	\$ 197,074	\$ 19,707	\$ 177,367
C.14		Portable Radio Upgrade Kits (2009 UASI Funds)	-	-	\$ 65,800	\$ 6,580	\$ 59,220
C.14		Portable Radio Upgrade Kits (2010 UASI Funds)	-	-	\$ 296,100	\$ 29,610	\$ 266,490
B.4.2.3		Installation, Optimization, Staging and Testing for Core 1 and Repeater Sites	-	-	\$ 463,818	\$ 46,382	\$ 417,436
Base.22.3.2		Performance Bond for Core 1 and Repeater Sites	-	-	\$ 89,801	\$ -	\$ 89,801
<b>Subtotal for Core 1 and Repeater Sites:</b>			\$ -	\$ -	\$ 14,373,487	\$ 1,428,369	\$ 12,945,118
<b>CORE 2 (AMENDMENT NO. 3)</b>							
B.3.2 to B.3.6		Core 2 Hardware	-	-	\$ 3,650,360	\$ 365,036	\$ 3,285,324
B.4.2.3		Installation, Optimization, Staging and Testing for Core 2	-	-	\$ 301,757	\$ 30,176	\$ 271,581
Base.22.3.2		Performance Bond for Core 2	-	-	\$ 24,663	\$ -	\$ 24,663
<b>LAPDVDC Uninterruptible Power Supply (UPS)</b>							
		Eaton 9130 2000 Rackmount; 120V, 50/60Hz; 2000VA/1800W	-	-	\$ 27,101	\$ 2,710	\$ 24,391
		Eaton 9130 2000/30000 EBM Rack	-	-	\$ 12,152	\$ 1,215	\$ 10,937
		Two-Post Rack Mounting Rail Kit	-	-	\$ 3,052	\$ 305	\$ 2,747
		Racks 7.5 Foot	-	-	\$ 863	\$ 86	\$ 777
		MSI Design and Implementation Services	-	-	\$ 24,978	\$ 2,498	\$ 22,480
<b>Subtotal for Core 2 and LAPDVDC UPS:</b>			\$ -	\$ -	\$ 4,044,926	\$ 402,026	\$ 3,642,900
<b>CORE 2 RELOCATION (AMENDMENT NO. 16)</b>							
		Removal and Relocation of Core 2 from LAPDVDC to PLM	-	-	\$ 499,912	\$ -	\$ 499,912
<b>Subtotal for Core 2 Relocation:</b>			\$ -	\$ -	\$ 499,912	\$ -	\$ 499,912
<b>SYSTEM ON WHEELS (AMENDMENT NO. 3)</b>							
		System on Wheels (SOW)	-	-	\$ -	\$ -	\$ -
		SOW - 95' MAST, 8' X 16' WALK-IN SHELTER	-	-	\$ 468,439	\$ 46,844	\$ 421,595
		DTVRS - ASTRO Site Repeaters (ASR)	-	-	\$ 408,816	\$ 40,882	\$ 367,934
		Core Licenses for 700/UHF ASR Sites	-	-	\$ 127,748	\$ 12,775	\$ 114,973
		Mobile Meshed VSAT Satellite System & Installation	-	-	\$ 126,233	\$ 12,623	\$ 113,610
		MSI Design and Implementation Services	-	-	\$ 81,116	\$ 8,112	\$ 73,004
Base.22.3.2		Performance Bond for SOW	-	-	\$ 6,345	\$ -	\$ 6,345
<b>Subtotal for System on Wheels:</b>			\$ -	\$ -	\$ 1,218,697	\$ 121,235	\$ 1,097,462
<b>STATION B EQUIPMENT (AMENDMENT NO. 4)</b>							
		DTVRS - ASTRO Site Repeaters (ASR):	\$ -	\$ -	\$ 585,803	\$ 58,580	\$ 527,223
		700 MHz ASR - 6 Channel (Phase 1/Phase 2)	\$ -	\$ -	\$ -	\$ -	\$ -
		UHF ASR - 11 Channel (Phase 1/Phase 2)	\$ -	\$ -	\$ -	\$ -	\$ -
		Core License Upgrades for ASR Sites	\$ -	\$ -	\$ 149,548	\$ 14,955	\$ 134,593
		MOTOBRIDGE GX Communication Gateway	\$ -	\$ -	\$ 174,329	\$ 17,433	\$ 156,896
		Point-To-Point 4.9 GHz Backhaul	\$ -	\$ -	\$ 26,748	\$ 2,675	\$ 24,073
		Mobile Meshed VSAT Satellite System & Installation	\$ -	\$ -	\$ 126,233	\$ 12,623	\$ 113,610
		MSI Design and Implementation Services	\$ -	\$ -	\$ 99,820	\$ 9,982	\$ 89,838
Base.22.3.2		Performance Bond for Station B Equipment	\$ -	\$ -	\$ 6,566	\$ -	\$ 6,566
<b>Subtotal for Station B Equipment:</b>			\$ -	\$ -	\$ 1,169,047	\$ 116,248	\$ 1,052,799
<b>PROJECT DESCRIPTIONS FOR BOUNDED AREA COVERAGE IN PHASE 1 (AMENDMENT NO. 2)</b>							
B.1.14.1		Detailed Project Description for Bounded Area Coverage at the following Sites: <small>(Note 4)</small>					
		Century Plaza	-	-	\$ 9,674	\$ 967	\$ 8,707
		LAC/HARBOR+UCLA MEDICAL CENTER	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS30	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 51	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 151	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 164	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 173	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 005	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 079	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 084	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 088	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		FS 095	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Carson	-	-	\$ 11,674	\$ 1,167	\$ 10,507

**EXHIBIT C.2 - SCHEDULE OF PAYMENTS  
PHASE 1 - SYSTEM DESIGN**

Deliverable/Task / Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable	Unilateral Option Sum <small>(Notes 3, 5, 6, 7, 8, 9)</small>	Credits <small>(Note 11)</small>	Contract Sum - Payable Amount for Phase 1 <small>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback
		San Pedro City Hall	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		West Hollywood Sheriff Station	-	-	\$ 11,674	\$ 1,167	\$ 10,507
<b>Total for Bounded Area Coverage Project Descriptions:</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ 173,110</b>	<b>\$ 17,311</b>	<b>\$ 155,799</b>
<b>LICENSE COORDINATION FEES FOR REPEATER SITES (AMENDMENT NO. 5)</b>							
		License Coordination Fees	-	-	\$ 20,240	\$ -	\$ 20,240
<b>Total for License Coordination Fees:</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ 20,240</b>	<b>\$ -</b>	<b>\$ 20,240</b>
<b>PORTABLE RADIO EQUIPMENT, CONSOLETTES, &amp; CONSOLES (AMENDMENT NO. 7)</b>							
		APX 7000XE Portable Radios (450 Dual Band with UHF and 700 MHz Enabled and 150 Dual Band with UHF and VHF MHz Enabled) (Total Quantity 600) and Radio Accessories - Refer to Amendment 7, Attachment A.1, for specifications and a detailed cost breakdown.	-	-	\$ 4,459,044	\$ -	\$ 4,459,044
		Subscriber Maintenance for 600 APX 7000XE Portable Radios Beyond Initial 5 Year Warranty Period (Year 6, Year 7, Year 8 at \$37,800 per year) (Service from the Start - LITE)	-	-	\$ 113,400	\$ -	\$ 113,400
		APX Console/ APX 7500 Control Station - Refer to Amendment 7, Attachment A.2, for specifications and a detailed cost breakdown.	-	-	\$ 216,215	\$ -	\$ 216,215
		Subscriber Maintenance for 20 APX7500 Control Stations Beyond the Initial 5 Year Warranty Period (Year 6, Year 7, Year 8 at \$1,908 per year) (Service from the Start - LITE)	-	-	\$ 5,724	\$ -	\$ 5,724
		Subscriber Maintenance for 10 APX 7500 Consolettes Beyond the Initial 5 Year Warranty Period (Year 6, Year 7, Year 8 at \$954 per year) (Service from the Start - LITE)	-	-	\$ 2,862	\$ -	\$ 2,862
		MC7500 Console - Refer to Amendment 7, Attachment A.3, for specifications and a detailed cost breakdown.	-	-	\$ 354,313	\$ -	\$ 354,313
		Bridge Warranty for NMS & Console Equipment - Refer to Amendment 7, Attachment A.3, for specifications and a detailed cost breakdown.	-	-	\$ 25,493	\$ -	\$ 25,493
<b>Total for Portable Radio Equipment, Consolettes, &amp; Consoles:</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,177,051</b>	<b>\$ -</b>	<b>\$ 5,177,051</b>
<b>PORTABLE RADIO EQUIPMENT (AMENDMENT NO. 8)</b>							
		APX 7000XE Portable Radios (400 Dual Band with UHF and 700 MHz Enabled and 54 Dual Band with UHF and VHF MHz Enabled) (Total Quantity 454) and Radio Accessories - Refer to Amendment 8, Attachment A, for specifications and a detailed cost breakdown	-	-	\$ 3,571,755	\$ -	\$ 3,571,755
		Subscriber Maintenance for 454 APX 7000XE Portable Radios Beyond Initial 5 Year Warranty Period (Year 6, Year 7, Year 8 at \$28,602 per year) (Service from the Start - LITE)	-	-	\$ 85,806	\$ -	\$ 85,806
		Performance Bond for Portable Radio Equipment	-	-	\$ 13,445	\$ -	\$ 13,445
<b>Total for Portable Radio Equipment:</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,671,006</b>	<b>\$ -</b>	<b>\$ 3,671,006</b>
<b>PROJECT DESCRIPTIONS FOR POTENTIAL REPLACEMENT SITES (AMENDMENT NO. 9)</b>							
B.1.14.1		Detailed Project Description for Potential Replacement Sites as follows:					
		Airport Courthouse (APC)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Beverly Hills' Coldwater Canyon Park (BHCCPRK)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Beverly Glen, Alternate Location (BVG-A)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Cerro Negro (CRN)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		LA City Hall East (LAHE)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Loop Canyon (LPC)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Lower Encinal Pump Station (LAHE)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Mirador (MIR)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Point Vicente (PVC)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Portshead Tank (PWT)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Westlake City Hall (WLK)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Inglewood County Courthouse (ICC)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Pacific Design Center (PDC)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Simpsons' Building (SIM)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Burnt Peak-3 (BUR3)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Frost Peak (Upper Blue Ridge) (FRP)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Grass Mountain (GMT)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Johnstone Peak (JPK-2)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Josephine Peak (JOP)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Magic Mountain (MML)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Mount Lukens-2 (MTL2)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Pine Mountain (PMT)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Sunset Ridge-2 (SUN-2)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Helipad 69 Bravo (BRV)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Philip Water Tank (PWT)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		Nicholas Canyon Water Tower (NCWT)	-	-	\$ 11,674	\$ 1,167	\$ 10,507

**EXHIBIT C.2 - SCHEDULE OF PAYMENTS  
PHASE 1 - SYSTEM DESIGN**

Deliverable/Task / Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable	Unilateral Option Sum <small>(Notes 3, 5, 6, 7, 8,9)</small>	Credits <small>(Note 11)</small>	Contract Sum - Payable Amount for Phase 1 <small>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback
<b>Total for Project Descriptions for Potential Replacement Sites:</b>			\$ -	\$ -	\$ 303,524	\$ 30,352	\$ 273,172
<b>PROJECT DESCRIPTIONS FOR POTENTIAL REPLACEMENT SITE(S) (AMENDMENT NO. 10)</b>							
B.1.14.1		Detailed Project Description for Potential Replacement Site(s) as follows:					
		Agoura Hills (AGH)	-	-	\$ 11,674	\$ 1,167	\$ 10,507
<b>Total for Project Descriptions for Potential Replacement Sites:</b>			\$ -	\$ -	\$ 11,674	\$ 1,167	\$ 10,507
<b>POWER LOAD STUDY COSTS (AMENDMENT NO. 10)</b>							
2.2.16		Power Load Study Cost(s)					
		Airport Courthouse (APC)			\$ 8,425	\$ -	\$ 8,425
		Inglewood Courthouse (ICC)			\$ 8,425		\$ 8,425
<b>Total for Power Load Study Costs:</b>			\$ -	\$ -	\$ 16,850	\$ -	\$ 16,850
<b>PROJECT DESCRIPTIONS FOR POTENTIAL REPLACEMENT SITE(S) (AMENDMENT NO. 11)</b>							
B.1.14.1		Detailed Project Description for Potential Replacement Site(s) as follows:					
		Olinda	-	-	\$ 11,674	\$ 1,167	\$ 10,507
		H-17A			\$ 11,674	\$ 1,167	\$ 10,507
<b>Total for Project Descriptions for Potential Replacement Sites:</b>			\$ -	\$ -	\$ 23,348	\$ 2,335	\$ 21,013
<b>FCC LICENSING (AMENDMENT NO. 12)</b>							
B.1.6		FCC Licensing - Frequency Planning	-	-	\$ 284,041	\$ 28,404	\$ 255,637
		Licensing all LMR Subsystem Frequencies at all LMR Subsystem Sites	-	-	\$ 51,348	\$ 5,135	\$ 46,213
		RF Engineering Services	-	-	\$ 73,728	\$ 7,373	\$ 66,355
		Project Management Services for FCC Licensing	-	-	\$ 14,000	\$ 1,400	\$ 12,600
<b>Total for FCC Licensing:</b>			\$ -	\$ -	\$ 423,117	\$ 42,312	\$ 380,805
<b>SPECIFIED EQUIPMENT BRIDGE WARRANTY (AMENDMENT NO. 12)</b>							
		SOW	-	-	\$ 57,720	\$ -	\$ 57,720
		UHF Stations	-	-	\$ -	\$ -	\$ -
		700 MHz Stations	-	-	\$ -	\$ -	\$ -
		Satellite Terminal	-	-	\$ -	\$ -	\$ -
		PTP800 Backhaul	-	-	\$ -	\$ -	\$ -
		Motobridge	-	-	\$ -	\$ -	\$ -
		Station B	-	-	\$ 44,853	\$ -	\$ 44,853
		UHF Stations	-	-	\$ -	\$ -	\$ -
		700 MHz Stations	-	-	\$ -	\$ -	\$ -
		Trailer	-	-	\$ -	\$ -	\$ -
		Satellite Terminal	-	-	\$ -	\$ -	\$ -
		PTP800 Backhaul	-	-	\$ -	\$ -	\$ -
		Motobridge	-	-	\$ -	\$ -	\$ -
		Early Equipment Shipment	-	-	\$ 351,772	\$ -	\$ 351,772
		Core 1 & Repeater Sites	-	-	\$ -	\$ -	\$ -
		Core 2 Equipment	-	-	\$ 189,992	\$ -	\$ 189,992
Base.22.3.2		Performance Bond for Specified Equipment Bridge Warranty	-	-	\$ 3,196	\$ -	\$ 3,196
<b>Total for Specified Equipment Bridge Warranty:</b>			\$ -	\$ -	\$ 647,533	\$ -	\$ 647,533
<b>PORTABLE RADIO EQUIPMENT (AMENDMENT NO. 12)</b>							
		APX 7000XE Portable Radios (40 Dual Band with UHF and 700 MHz Enabled) (Total Quantity 40) and Radio Accessories - Refer to Amendment 7, Attachment A, for specifications and a detailed cost breakdown	-	-	\$ 333,005	\$ -	\$ 333,005
		Subscriber Maintenance for 40 APX 7000XE Portable Radios Beyond Initial 5 Year Warranty Period (Year 6, Year 7, Year 8 at \$2,520 per year) (Service from the Start - LITE)	-	-	\$ 7,560	\$ -	\$ 7,560
		APX 7500 Console and (Dual Band with UHF and 700 MHz Enabled) (Total Quantity 4) and Remote Control HD/CHIB Replacement - Refer to Amendment 12, Attachment A, for specifications and a detailed cost breakdown	-	-	\$ 36,732	\$ -	\$ 36,732
		APX 7500 Control Station (Dual Band with UHF and 700 MHz Enabled) (Total Quantity 1) - Refer to Amendment 12, Attachment A, for specifications and a detailed cost breakdown	-	-	\$ 7,506	\$ -	\$ 7,506
		Subscriber Maintenance for 4 APX 7500 Consoles and 1 APX 7500 Control Station Beyond the Initial 5 Year Warranty Period (Year 6, Year 7, Year 8 at \$477 per year) (Service from the Start - LITE)	-	-	\$ 1,431	\$ -	\$ 1,431
<b>Total for Portable Radio Equipment</b>			\$ -	\$ -	\$ 386,234	\$ -	\$ 386,234
<b>LEASE EXHIBIT (AMENDMENT NO. 13)</b>							
		<del>Baldwin Hills</del>			<del>\$ 532</del>	<del>\$ 53</del>	<del>\$ 479</del>
		<del>Black Jack Peak</del>			<del>\$ 532</del>	<del>\$ 53</del>	<del>\$ 479</del>
		<del>Bald Mountain</del>			<del>\$ 396</del>	<del>\$ 40</del>	<del>\$ 356</del>
		<del>Compton Court Building</del>			<del>\$ 532</del>	<del>\$ 53</del>	<del>\$ 479</del>
		<del>Claremont</del>			<del>\$ 396</del>	<del>\$ 40</del>	<del>\$ 356</del>

**EXHIBIT C.2 - SCHEDULE OF PAYMENTS**  
**PHASE 1 - SYSTEM DESIGN**

Deliverable/Task / Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable	Unilateral Option Sum <small>(Notes 3, 5, 6, 7, 8,9)</small>	Credits <small>(Note 11)</small>	Contract Sum - Payable Amount for Phase 1 <small>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback
		Castro Peak			\$ 532	\$ 53	\$ 479
		Dakin Peak			\$ 532	\$ 53	\$ 479
		Encinal 1 (Fire Camp)			\$ 532	\$ 53	\$ 479
		L.A. County Fire Command			\$ 532	\$ 53	\$ 479
		Green Mountain			\$ 532	\$ 53	\$ 479
		Hauser Peak			\$ 396	\$ 40	\$ 356
		Mira Loma Facility			\$ 532	\$ 53	\$ 479
		Mount McDill			\$ 532	\$ 53	\$ 479
		Monte Vista (Star Center)			\$ 532	\$ 53	\$ 479
		Oat Mountain			\$ 532	\$ 53	\$ 479
		Oat Mountain Nike			\$ 532	\$ 53	\$ 479
		Puente Hills			\$ 532	\$ 53	\$ 479
		Pomona 1620 Hillcrest			\$ 532	\$ 53	\$ 479
		Rolling Hills Transmit			\$ 532	\$ 53	\$ 479
		Rio Hondo			\$ 532	\$ 53	\$ 479
		San Dimas			\$ 532	\$ 53	\$ 479
		Signal Hill			\$ 532	\$ 53	\$ 479
		Saddle Peak			\$ 532	\$ 53	\$ 479
		Topanga Peak			\$ 532	\$ 53	\$ 479
		Tejon Peak			\$ 532	\$ 53	\$ 479
		Tower Peak			\$ 532	\$ 53	\$ 479
		100 Wilshire			\$ 532	\$ 53	\$ 479
		Airport Courthouse			\$ 532	\$ 53	\$ 479
		Olinda			\$ 396	\$ 40	\$ 356
		<b>Total for Lease Exhibit</b>			<b>\$ 14,884</b>	<b>\$ 1,488</b>	<b>\$ 13,396</b>
<b>STATION B &amp; SOW REPROGRAMMING (AMENDMENT NO. 14)</b>							
		Equipment			\$ 15,260		\$ 15,260
		MSI Design and Implementation Services			\$ 43,848		\$ 43,848
		Special Temporary Authority			\$ 5,148		\$ 5,148
		<b>Total for Station B &amp; Sow Reprogramming</b>			<b>\$ 64,256</b>	<b>\$ -</b>	<b>\$ 64,256</b>
<b>PROJECT DESCRIPTIONS FOR POTENTIAL REPLACEMENT SITE(S) (AMENDMENT NO. 15)</b>							
B.1.14.1		Detailed Project Description for Potential Replacement Site(s) as follows:					
B.1.14.1		Baldwin Hills County			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		Baldwin Hills -LA-RICS			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		BKK Landfill			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		Criminal Court (Foltz)			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		Los Angeles County Sheriff Temple Station			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		Los Angeles County DPW Water Tank			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		Los Angeles County Palmdale Sheriff Station			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		Pomona Courthouse			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		San Pedro Hill County			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		University of California Los Angeles			\$ 11,674	\$ 1,167	\$ 10,507
B.1.14.1		Verdugo Peak			\$ 11,674	\$ 1,167	\$ 10,507
		<b>Total for Project Descriptions for Potential Replacement Sites:</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 128,414</b>	<b>\$ 12,841</b>	<b>\$ 115,577</b>
<b>SYSTEM REDESIGN (AMENDMENT NO. 16)</b>							
		LMR System Redesign			\$ 1,054,440	\$ -	\$ 1,054,440
		<b>Total for System Redesign:</b>			<b>\$ 1,054,440</b>	<b>\$ -</b>	<b>\$ 1,054,440</b>
<b>PROJECT DESCRIPTION FOR POTENTIAL REPLACEMENT SITE (AMENDMENT NO. 16)</b>							
		LACFI34			\$ 11,674	\$ -	\$ 11,674
		<b>Total for System Redesign:</b>			<b>\$ 11,674</b>	<b>\$ -</b>	<b>\$ 11,674</b>
<b>PROJECT DESCRIPTION WORK (AMENDMENT NO. 18)</b>							
	RPV001A	Rancho Palos Verdes ECC			\$ 11,674	\$ 1,167	\$ 10,507
	SMMC	Santa Monica/UCLA Medical Center			\$ 11,674	\$ 1,167	\$ 10,507
	UCLA	UCLA (Factor Building)			\$ 11,674	\$ 1,167	\$ 10,507
	WWY	Winding Way			\$ 11,674	\$ 1,167	\$ 10,507
		<b>Total for Project Description Work:</b>			<b>\$ 46,696</b>	<b>\$ 4,670</b>	<b>\$ 42,026</b>
<b>3D MODELING (AMENDMENT NO. 20)</b>							
		3D Modeling			\$ 6,534		
		<b>Total for Phase 3 Credits</b>			<b>\$ 6,534</b>		
<b>Total for Phase 1 - System Design</b>			<b>\$ -</b>	<b>\$ 9,517</b>	<b>\$ 43,510,768</b>	<b>\$ 3,121,954</b>	<b>\$ 40,319,764</b>

Note 1: Should a Site fall out for permitting reasons, Contractor will redo the Final System Design at no charge to the Authority.

Note 2: 75% will occur at submittal for planning review. The remaining 25% will be paid upon receipt of construction permit.



## EXHIBIT C.2 - SCHEDULE OF PAYMENTS

### PHASE 1 - SYSTEM DESIGN

Deliverable/Task / Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable	Unilateral Option Sum <small>(Notes 3, 5, 6, 7, 8,9)</small>	Credits <small>(Note 11)</small>	Contract Sum - Payable Amount for Phase 1 <small>(Notes 3,4,5,6,7,8,9, 10,12,13,14)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback
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Note 3: Pursuant to Amendment No. One, effective as of September 5, 2013, the Authority exercised the Unilateral Option for all work pertaining to Phase 1. In connection therewith, the Unilateral Option Sum for Phase 1 of \$29,266,721 was converted into a Contract Sum.

Note 4: Pursuant to Amendment No. Two, effective as of October 29, 2013, the Authority exercised the Unilateral Option for all work pertaining to Bounded Area Coverage Project Descriptions for Phase 1. In connection therewith, the Unilateral Option Sum for Bounded Area Coverage Project Descriptions for Phase 1 in the amount of \$173,110 was converted into a Contract Sum. The cost for the Project Descriptions for the Bounded Area Coverage only are reflected in Exhibit C.2 (Phase 1 - System Design) as amended and restated in Amendment No. 2. The balance of the remaining Unilateral Option Sum for Bounded Area Coverage Additive Alternate is reflected in Exhibit C.7 (Bounded Area Coverage Additive Alternate).

Note 5: Pursuant to Amendment No. Three, effective as of December 19, 2013, (a) Contractor's provision and implementation of certain equipment reflected in Exhibit C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, was moved from Phases 3 and 4 to Phase 1; and (b) Contractor was engaged to provide and implement under Phase 1, certain additional equipment reflected in Exhibit C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, (the equipment described in clauses (a) and (b) is collectively referred to as the "Specified Equipment").

In connection therewith, (i) a Unilateral Option Sum in the amount of \$4,362,681 was moved from Schedules C.4 (Schedule of Payments Phase 3 – Supply LMR System Components) and C.5 (Schedule of Payments Phase 4 – System Implementation) to Exhibit C (Schedule of Payments) to Schedule C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, and thereafter such Unilateral Option Sum was converted to a Contract Sum; and (ii) a Unilateral Option Sum in the amount of \$1,285,230 was added to Schedule C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, and thereafter such Unilateral Option Sum was converted to a Contract Sum.

Note 6: Pursuant to Amendment No. Four, effective as of December 19, 2013, Contractor was engaged to provide and implement under Phase 1, certain additional equipment and related services reflected in Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Four. In connection therewith, a Unilateral Option Sum in the amount of \$1,169,047 was added to Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Four, and thereafter such Unilateral Option Sum was converted to a Contract Sum.

Note 7: Pursuant to Amendment No. Five, effective as of March 27, 2014, license coordination fees for the Repeater Sites were reflected in Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Five. In connection therewith, a Unilateral Option Sum in the amount of \$20,240 was added to Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Five, and thereafter such Unilateral Option Sum was converted to a Contract Sum.

Note 8: Pursuant to Amendment No. Six, effective as of April 17, 2014, the enhancement of LAPDVDC's UPS to accommodate the installation and deployment of Core 2 was reflected in Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Six. In connection therewith, a Unilateral Option Sum in the amount of \$68,146 was added to Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Six, and thereafter such Unilateral Option Sum was converted to a Contract Sum.  
portable radios, radio accessories, consolettes, and consoles. In connection therewith, a Unilateral Option Sum in the amount of \$5,177,051 was added to Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Seven, and thereafter such Unilateral Option Sum was converted to a Contract Sum.

Note 10: Pursuant to Amendment No. Eight, effective as of August 28, 2014, Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments) was revised to reflect the costs for the purchase of portable radios and radio accessories. In connection therewith, a Unilateral Option Sum in the amount of \$3,671,006 was added to Exhibit C.1 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Eight, and thereafter such Unilateral Option Sum was converted to a Contract Sum.

Note 11: Pursuant to Amendment No. Nine, effective November 19, 2014, the Authority removed 1 LMR System Site for Phases 1 through 4. As such, Credits were realized in the amount of \$646,001. However, the cost for preparing Project Descriptions for 26 potential replacement sites in the amount of \$303,524 was taken from the Credits. The remaining Credit balance of \$342,477 is reserved for use for a future replacement site.

Note 12: Pursuant to Amendment No. Ten, effective February 17, 2015, Exhibit C.1 (Schedule of Prices - System Design) was amended by Amendment No. 10 to reflect the conversion of Unilateral Option Sum to Contract Sum for (a) the addition of five (5) LMR System Sites; (b) the removal of four (4) sites; (c) Project Description Work for one (1) potential sites; and (d) the cost of power load studies for two (2) sites.

Note 13: Pursuant to Amendment No. Eleven, effective April 28, 2015, Exhibit C.1 (Schedule of Prices - System Design) was amended by Amendment No. 11 to reflect Project Description Work for two (2) potential sites.

Note 14: Pursuant to Amendment No. Twelve, effective August 27, 2015, Exhibit C.1 (Schedule of Prices - System Design) was amended by Amendment No. 12 to reflect the shifting of FCC Licensing costs from Phase 3 in the amount of \$284,041; increasing the FCC Licensing costs for enhanced scope by \$139,076; including costs for a bridge warranty for Specified Equipment in the amount of \$647,533; and purchasing portable radio equipment in the amount of \$386,234.

Note 15: Pursuant to Amendment No. Thirteen, effective October 30, 2015, Exhibit C.2 (Schedule of Prices - System Design) was amended by Amendment No. 13 to reflect the addition of lease exhibits to twenty-nine (29) LMR System Sites for a total cost of \$14,888.

Note 16: Pursuant to Amendment No. Fourteen, effective November 17, 2015, Exhibit C.2 (Schedule of Prices - System Design) was amended by Amendment No. 14 to reflect the work related to reprogramming of UHF frequencies for the County of Los Angeles Sheriff's Department' Station B and the Authority's System On Wheels for a total of \$64,256.

Note 17: Pursuant to Amendment No. Fifteen effective December 22, 2015, Exhibit C.1 (Schedule of Prices - System Design) was amended by Amendment No. 15 to reflect Project Description Work for eleven (11) potential sites, for a total cost of \$128,414.

Note 18: Pursuant to Amendment No. Sixteen effective December 23, 2015, Exhibit C.1 (Schedule of Prices - System Design) was amended by Amendment No. 16 to reflect (a) removal of thirty-one (31) LMR System Sites resulting in credits in the amount of \$1,132,374 for Phase 1 only; (2) addition of seventeen (17) LMR System Sites in the amount of \$635,537 which will be taken from the credited amount of \$1,132,374, bringing the total amount of credits down to \$363,599 (inclusive of Phase 1 Work performed for 75% drawings and building permits in the amount of \$133,238) and shall be reflected in the Whitaker Middle Peak site in Phase 3; (c) account for a comprehensive redesign of the LMR System and all associated Work for an increase in the amount of \$1,054,440; and (d) reflect the removal, relocation, and deployment of the LMR System Core 2 equipment from Los Angeles Police Department Valley Dispatch Center (LAPDVDC) to Palmdale Sheriff Station (PLM) and necessary associated Work in the amount of \$499,912.

Note 19: Pursuant to Amendment No. Seventeen, four (4) LMR System Sites were removed from further consideration and two (2) LMR System Sites were included as part of the LMR System. In connection therewith, Unilateral Option Sums were converted into Contract Sums.

Note 20: Pursuant to Amendment No. Eighteen, eight (8) LMR System Sites were added and included as part of the LMR System. In connection therewith, Unilateral Option Sums for the eight (8) LMR System Sites were converted into Contract Sums. Also, Project Description Work was performed on four (4) of the eight (8) LMR System Sites added to Amendment No. Eighteen.

Note 21: Pursuant to Amendment No. Nineteen, one (1) LMR System Site was removed from further consideration in Phases 1-4. Also, two (2) LMR System Sites were reconciled in Phases 2-4.

## EXHIBIT C.3 - SCHEDULE OF PAYMENTS

### PHASE 2 - SITE CONSTRUCTION AND SITE MODIFICATION

Deliverable/ Task/ Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable <small>(Refer to Site Development Matrix in Exhibit B for further details on the capacity and sizes of site components)</small>	Phase 2 Total						
			Qty.	Unilateral Option Sum for Site Construction Only	Unilateral Option Sum Including Project Management	Credits <small>(Note 1)</small>	Contract Sum - Payable Amount for Phase 2 <small>(Note 1,3)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback
<b>B.2.2</b>		<b>Site Construction</b>							
B.2.2	BAH	Baldwin Hills		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	BJM	Black Jack Peak		\$ -	\$ -	\$ -	\$ 1,146,012	\$ 114,601	\$ 1,031,411
<b>B.2.2</b>	<b>BMT</b>	<b>Bald Mountain</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 473,456</b>	<b>\$ 47,346</b>	<b>\$ 426,110</b>
B.2.2	BRK	Blue Rock		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	BUR	Burnt Peak		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	BVG	Beverly Glen		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>B.2.2</b>	<b>CCB</b>	<b>Compton Court Building</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 451,517</b>	<b>\$ 45,152</b>	<b>\$ 406,365</b>
B.2.2	CEP	Century Plaza		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	CLM	Claremont		\$ -	\$ -	\$ -	\$ 171,831	\$ 17,183	\$ 154,648
B.2.2	CPK	Castro Peak		\$ -	\$ -	\$ -	\$ 475,958	\$ 47,596	\$ 428,362
B.2.2	DPK	Dakin Peak		\$ -	\$ -	\$ -	\$ 620,065	\$ 62,006	\$ 558,058
B.2.2	ELSGDPD	El Segundo PD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	ENC1	Encinal Fire Camp		\$ -	\$ -	\$ -	\$ 469,641	\$ 46,964	\$ 422,677
B.2.2	GRM	Green Mountain		\$ -	\$ -	\$ -	\$ 652,113	\$ 65,211	\$ 586,902
<b>B.2.2</b>	<b>HPK</b>	<b>Hauser Peak</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 599,484</b>	<b>\$ 59,948</b>	<b>\$ 539,536</b>
B.2.2	JPK	Johnstone Peak		\$ -	\$ -	\$ -	\$ 475,958	\$ 47,596	\$ 428,362
B.2.2	LACF028	FS 28		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF056	FS 56		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF071	FS 71		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF072	FS 72		\$ -	\$ -	\$ -	\$ 496,514	\$ 49,651	\$ 446,863
B.2.2	LACF077	FS 77		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF084	LACF84		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF091	FS 91		\$ -	\$ -	\$ -	\$ 358,453	\$ 35,845	\$ 322,608
B.2.2	LACF099	FS99		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF119	FS 119		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF144	FS 144		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF149	FS 149		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF157	FS 157		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACF196	FS 169		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACFCP09	LACFCP09		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LACFDEL	Del Valle Training		\$ -	\$ -	\$ -	\$ 441,981	\$ 44,198	\$ 397,783
B.2.2	LAH	LA City Hall		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	LBR	Lower Blue Ridge		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>B.2.2</b>	<b>LDWP243</b>	<b>DWP Sylmar Water Ladder</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 220,869</b>	<b>\$ 22,087</b>	<b>\$ 198,782</b>
B.2.2	MAM	Magie Mountain		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	MDI	Mount Disappointment		\$ -	\$ -	\$ -	\$ 660,485	\$ 66,048	\$ 594,436
B.2.2	MLE	Mount Lee		\$ -	\$ -	\$ -	\$ 499,969	\$ 49,997	\$ 449,972
B.2.2	MLM	Mira Loma Facility		\$ -	\$ -	\$ -	\$ 571,250	\$ 57,125	\$ 514,125
B.2.2	MMC	Mount McDill		\$ -	\$ -	\$ -	\$ 436,219	\$ 43,622	\$ 392,597
B.2.2	MTL	Mount Lukens		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	MTF	Mt Thom		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	MTW	Mount Washington		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	MVS	Monte Vista (Star Center)		\$ -	\$ -	\$ -	\$ 385,948	\$ 38,595	\$ 347,354
B.2.2	OAT	Oat Mountain OAT		\$ -	\$ -	\$ -	\$ 452,961	\$ 45,296	\$ 407,665
B.2.2	OMC	Oat Mountain OMC		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	ONK	Oat Mountain Nike		\$ -	\$ -	\$ -	\$ 375,048	\$ 37,505	\$ 337,543
<b>B.2.2</b>	<b>PHN</b>	<b>Puente Hills</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 205,959</b>	<b>\$ 20,596</b>	<b>\$ 185,363</b>
B.2.2	PRG	Portal Ridge		\$ -	\$ -	\$ -	\$ 549,474	\$ 54,947	\$ 494,526
B.2.2	PSH	Pomona 1620 Hillcrest		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	RDNBPD	Redondo Beach PD		\$ -	\$ -	\$ 337,720	\$ -	\$ -	\$ -
B.2.2	RHT	Rolling Hills Transmit		\$ -	\$ -	\$ -	\$ 436,288	\$ 43,629	\$ 392,659
B.2.2	RIH	Rio Hondo		\$ -	\$ -	\$ -	\$ 305,391	\$ 30,539	\$ 274,852
B.2.2	RPVE001	Rancho Palos Verde City Hall		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	SAG	San Augustine		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	SDW	San Dimas		\$ -	\$ -	\$ -	\$ 549,474	\$ 54,947	\$ 494,526
B.2.2	SGH	Signal Hill		\$ -	\$ -	\$ -	\$ 429,872	\$ 42,987	\$ 386,885
B.2.2	SPC	San Pedro Hill		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	SPN	Saddle Peak		\$ -	\$ -	\$ -	\$ 478,716	\$ 47,872	\$ 430,845
B.2.2	SUN	Sunset Ridge		\$ -	\$ -	\$ -	\$ 433,020	\$ 43,302	\$ 389,718
B.2.2	SVP	San Vicente Peak		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	SWP	Southwest Area Station		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.2.2	TOP	Topanga Peak		\$ -	\$ -	\$ -	\$ 560,097	\$ 56,010	\$ 504,087

**EXHIBIT C.3 - SCHEDULE OF PAYMENTS  
PHASE 2 - SITE CONSTRUCTION AND SITE MODIFICATION**

Deliverable/ Task/ Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable <small>(Refer to Site Development Matrix in Exhibit B for further details on the capacity and sizes of site components)</small>	Phase 2 Total							
			Qty.	Unilateral Option Sum for Site Construction Only	Unilateral Option Sum Including Project Management	Credits <small>(Note 1)</small>	Contract Sum - Payable Amount for Phase 2 <small>(Note 1,3)</small>	10% Holdback Amount	Payable Amount Less 10% Holdback	
B.2.2	TPK	Tejon Peak		\$ -	\$ -	\$ -	\$ 540,403	\$ 54,040	\$ 486,363	
B.2.2	TWR	Tower Peak		\$ -	\$ -	\$ -	\$ 623,539	\$ 62,354	\$ 561,185	
B.2.2	VPC	Verdugo Peak (city)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
B.2.2	WAD	Walker Drive		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
B.2.2	WMP	Whitaker Middle Peak		\$ -	\$ -	\$ -	\$ 278,512	\$ 27,851	\$ 250,661	
B.2.2	WS1	100 Wilshire		\$ -	\$ -	\$ -	\$ 185,718	\$ 18,572	\$ 167,146	
B.2.2	WTR	Whitaker Ridge		\$ -	\$ -	\$ -	\$ 262,425	\$ 26,243	\$ 236,183	
B.2.2	LAPD077	77TH Street Area Complex		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
B.2.2	LAPDDVN	Devonshire Area station		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
B.2.2	FCCF	L A County Fire Command		\$ -	\$ -	\$ -	\$ 186,715	\$ 18,671	\$ 168,043	
B.2.2	LAPDVDC	Valley Dispatch Center		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Subtotal for Site Construction and Modifications Site Detail</b>				\$ -	\$ -	\$ 337,720	\$ 16,461,335	\$ 1,646,133	\$ 14,815,201	
<b>ADDITIONAL SITES (AMENDMENT NO. 10)</b>										
B.2.2		<b>Site Construction</b>								
B.2.2	APC	Airport Courthouse		\$ -	\$ -	\$ -	\$ 152,578	\$ 15,258	\$ 137,320	
B.2.2	BCHCPRK	Beverly Hills Coldwater Canyon Park		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
B.2.2	LACFI36	FS-136		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
B.2.2	LAHE	LA City Hall East		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
B.2.2	OLI	Olinda		\$ -	\$ -	\$ -	\$ 187,439	\$ 18,744	\$ 168,695	
<b>Subtotal for Additional Sites (Amendment No. 10)</b>				\$ -	\$ -	\$ -	\$ 340,017	\$ 34,002	\$ 306,015	
<b>ADDITIONAL SITES (AMENDMENT NO. 17)</b>										
B.2.2		<b>Site Construction</b>								
B.2.2	AGH	Agoura Hills		\$ -	\$ -	\$ -	\$ 380,676	\$ 38,068	\$ 342,608	
B.2.2	BUR1	Burnt Peak 1		\$ -	\$ -	\$ -	\$ 277,959	\$ 27,796	\$ 250,163	
B.2.2	CCT	Criminal Court (Foltz)		\$ -	\$ -	\$ -	\$ 555,734	\$ 55,573	\$ 500,161	
B.2.2	CRN	Cerro Negro		\$ -	\$ -	\$ -	\$ 489,467	\$ 48,947	\$ 440,520	
B.2.2	FRP	Frost Peak (Upper Blue Ridge)		\$ -	\$ -	\$ -	\$ 660,485	\$ 66,049	\$ 594,437	
B.2.2	GMT	Grass Mountain		\$ -	\$ -	\$ -	\$ 2,021,991	\$ 202,199	\$ 1,819,792	
B.2.2	H-17A	H-17 Helipad		\$ -	\$ -	\$ -	\$ 358,453	\$ 35,845	\$ 322,608	
B.2.2	LARICSHQ	LA-RICS Headquarters		\$ -	\$ -	\$ -	\$ 80,264	\$ 8,026	\$ 72,238	
B.2.2	LASDTEM	Los Angeles County Sheriff's Department Temple Station		\$ -	\$ -	\$ -	\$ 297,580	\$ 29,758	\$ 267,822	
B.2.2	LPC	Loop Canyon		\$ -	\$ -	\$ -	\$ 358,453	\$ 35,845	\$ 322,608	
B.2.2	LEPS	Lower Encinal Pump Station		\$ -	\$ -	\$ -	\$ 451,070	\$ 45,107	\$ 405,963	
B.2.2	MIR	Mirador		\$ -	\$ -	\$ -	\$ 407,516	\$ 40,752	\$ 366,764	
B.2.2	MML	Magic Mountain Link		\$ -	\$ -	\$ -	\$ 476,231	\$ 47,623	\$ 428,608	
B.2.2	MTL2	Mount Lukens 2		\$ -	\$ -	\$ -	\$ 346,967	\$ 34,697	\$ 312,270	
B.2.2	PDC	Pacific Design Center		\$ -	\$ -	\$ -	\$ 241,099	\$ 24,110	\$ 216,989	
B.2.2	PLM	Los Angeles County Sheriff's Department Palmdale Station		\$ -	\$ -	\$ -	\$ 187,257	\$ 18,726	\$ 168,531	
B.2.2	PMT	Pine Mountain		\$ -	\$ -	\$ -	\$ 2,027,826	\$ 202,783	\$ 1,825,043	
B.2.2	PWT	Porthead Tank		\$ -	\$ -	\$ -	\$ 402,033	\$ 40,203	\$ 361,830	
B.2.2	VPK	Verdugo Peak County)		\$ -	\$ -	\$ -	\$ 474,506	\$ 47,451	\$ 427,055	
<b>Subtotal for Additional Sites (Amendment No. 17)</b>				\$ -	\$ -	\$ -	\$ 10,495,567	\$ 1,049,557	\$ 9,446,010	
Base.22.3.2		Project Management	Included	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		Performance Bond	1	\$ -	\$ -	\$ -	\$ 193,803	\$ -	\$ 193,803	
		Materials and Labor Bond	Included	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		Total Lease Costs		\$ -	\$ -	N/A	\$ -	\$ -	\$ -	
Base.22.2.2		Builder's Insurance	1	\$ -	\$ -	\$ -	\$ 372,599	\$ -	\$ 372,599	
Base.22.2.1		Liability Insurance (General and Professional)	1	\$ -	\$ -	\$ -	\$ 527,500	\$ -	\$ 527,500	
B.2.2		Phase 2 Completion Acceptance					\$ 8,963,268	\$ 896,327	\$ 8,066,941	
<b>Total for Phase 2 - Site Construction and Modifications (including Subtotals for Site Detail)</b>					\$ -	\$ -	\$ 337,720	\$ 37,354,089	\$ 3,626,019	\$ 33,728,070

**Note 1:** Pursuant to Amendment No. Nine, effective November 19, 2014, the Authority removed 1 LMR System Site for Phases 1 through 4. As such, Credits were realized in the amount of \$646,001. However, the cost for preparing Project Descriptions for 26 potential replacement sites in the amount of \$303,524 was taken from the Credits. The remaining Credit balance of \$342,477 is reserved for use for a future replacement site.

**Note 2:** Pursuant to Amendment No. Ten, effective February 17, 2015, Exhibit C.2 (Schedule of Prices - Site Construction and Site Modification) was amended by Amendment No. 10 to reflect (a) the conversion of Unilateral Option Sum to Contract Sum for for eight (8) LMR System Site currently contemplated in the Design and the addition of five (5) LMR System Sites; and (b) the removal of four (4) sites.

**Note 3:** Pursuant to Amendment No. Seventeen, thirty-four (34) LMR System Sites were removed from further consideration; nineteen (19) LMR System Sites were included as part of the LMR System; and Phase 2 Completion Acceptance was included. In connection therewith, and in addition to all activities contemplated in this Phase 2, Unilateral Option Sums, not previously exercised, were converted into Contract Sums.

**EXHIBIT C.3 - SCHEDULE OF PAYMENTS  
PHASE 2 - SITE CONSTRUCTION AND SITE MODIFICATION**

Deliverable/ Task/ Section No. <i>(Exhibit A, Exhibit B, or Base Document)</i>	Site ID	Deliverable <i>(Refer to Site Development Matrix in Exhibit B for further details on the capacity and sizes of site components)</i>	Phase 2 Total						
			Qty.	Unilateral Option Sum for Site Construction Only	Unilateral Option Sum Incuding Project Management	Credits <i>(Note 1)</i>	Contract Sum - Payable Amount for Phase 2 <i>(Note 1,3)</i>	10% Holdback Amount	Payable Amount Less 10% Holdback

Note 4: Pursuant to Amendment No. Nineteen, one (1) LMR System Site was removed from further consideration in Phases 1-4. Also, two (2) LMR System Sites were reconciled in Phases 2-4.

## EXHIBIT C.4 - SCHEDULE OF PAYMENTS PHASE 3 - SUPPLY LMR SYSTEM COMPONENTS

Deliverable/ Task/ Section No. <i>(Exhibit A, Exhibit B, or Base Document)</i>	Site ID	Deliverable	Total Unilateral Option Sum for Equipment <i>(Note 1)</i>	Equipment Purchase in Phase 1 Credit per Site <i>(Note 1)</i>	DTVRS	ACVRS	LARTCS	NMDN	Microwave	Credits <i>(Note 2)</i>	Total Contract Sum - Total Payable Amount for Phase 3 <i>(Note 1, 3, 8)</i>	10% Holdback Amount	Payable Amount Less 10% Holdback
<b>B.3.2 to B.3.6</b>		<b>Equipment Delivery</b>											
B.3.2 to B.3.6	BAH	Baldwin Hills	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	BJM	Black Jack Peak	\$ -	\$ (943,771)	\$ 917,609	\$ 198,138	\$ 515,961	\$ 80,765	\$ 28,058	\$ -	\$ 796,760	\$ 79,676	\$ 717,084
<b>B.3.2 to B.3.6</b>	<b>BMT</b>	<b>Bald Mountain</b>	\$ -	\$ (525,736)	\$ 482,925	\$ -	\$ 171,631	\$ 45,509	\$ 36,032	\$ -	\$ 736,097	\$ -	\$ 736,097
B.3.2 to B.3.6	BRK	Blue Rock	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	BUR	Burnt Peak	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	BVG	Beverly Glen	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>B.3.2 to B.3.6</b>	<b>CCB</b>	<b>Compton Court Building</b>	\$ -	\$ (522,576)	\$ 482,398	\$ 171,692	\$ -	\$ 80,244	\$ 36,176	\$ -	\$ 770,510	\$ -	\$ 770,510
B.3.2 to B.3.6	CEP	Century Plaza	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	CLM	Claremont	\$ -	\$ -	\$ -	\$ 205,482	\$ 79,880	\$ 45,667	\$ 30,252	\$ -	\$ 361,282	\$ 36,128	\$ 325,154
B.3.2 to B.3.6	CPK	Castro Peak	\$ -	\$ (563,761)	\$ 548,133	\$ 166,212	\$ 426,740	\$ 80,765	\$ 51,596	\$ -	\$ 709,685	\$ 70,968	\$ 638,716
B.3.2 to B.3.6	DPK	Dakin Peak	\$ -	\$ -	\$ 483,521	\$ 198,377	\$ 427,813	\$ 80,964	\$ 39,606	\$ -	\$ 1,230,281	\$ 123,028	\$ 1,107,253
B.3.2 to B.3.6	ELSGDPD	El Segundo PD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	ENC1	Encinal 1 (Fire Camp)	\$ -	\$ -	\$ 241,403	\$ -	\$ 79,904	\$ 45,708	\$ 27,363	\$ -	\$ 394,379	\$ 39,438	\$ 354,941
B.3.2 to B.3.6	GRM	Green Mountain	\$ -	\$ -	\$ 548,133	\$ 166,212	\$ 426,740	\$ 45,708	\$ 64,131	\$ -	\$ 1,250,923	\$ 125,092	\$ 1,125,831
<b>B.3.2 to B.3.6</b>	<b>HPK</b>	<b>Hauser Peak</b>	\$ -	\$ (975,300)	\$ 917,311	\$ 145,772	\$ 296,409	\$ 45,509	\$ 46,753	\$ -	\$ 1,451,754	\$ -	\$ 1,451,754
B.3.2 to B.3.6	JKP	Johnstone Peak	\$ -	\$ (497,000)	\$ 483,223	\$ 205,519	\$ 426,740	\$ 123,657	\$ 43,712	\$ -	\$ 785,850	\$ 78,585	\$ 707,265
B.3.2 to B.3.6	LACF028	FS-28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF056	FS-56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF071	FS-71	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF072	FS-72	\$ -	\$ -	\$ 546,319	\$ 165,304	\$ 87,051	\$ -	\$ 26,897	\$ -	\$ 825,571	\$ 82,557	\$ 743,014
B.3.2 to B.3.6	LACF077	FS-77	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF084	FS-84	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF091	FS-91	\$ -	\$ -	\$ 176,055	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 176,055	\$ 17,606	\$ 158,450
B.3.2 to B.3.6	LACF099	FS-99	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF119	FS-119	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF144	FS-144	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF149	FS-149	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF157	FS-157	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF196	FS-169	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACFCP09	CP-9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACFDEL	Del Valle Training	\$ -	\$ -	\$ 372,867	\$ 91,920	\$ 164,574	\$ -	\$ 32,590	\$ -	\$ 661,951	\$ 66,195	\$ 595,756
B.3.2 to B.3.6	LAH	LA City Hall <i>(Note 4)</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LBR	Lower Blue Ridge	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>B.3.2 to B.3.6</b>	<b>LDWP243</b>	<b>DWP Sylmar Water Ladder</b>	\$ -	\$ -	\$ 324,187	\$ 74,185	\$ 79,467	\$ -	\$ 27,849	\$ -	\$ 505,688	\$ -	\$ 505,688
B.3.2 to B.3.6	MAM	Magie Mountain	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	MDI	Mount Disappointment	\$ -	\$ (563,761)	\$ 548,133	\$ 205,519	\$ 426,740	\$ 123,657	\$ 30,685	\$ -	\$ 790,099	\$ 79,010	\$ 711,089
B.3.2 to B.3.6	MLE	Mount Lee	\$ -	\$ (548,133)	\$ 548,133	\$ 262,589	\$ 391,402	\$ 123,657	\$ 29,482	\$ -	\$ 807,129	\$ 80,713	\$ 726,416
B.3.2 to B.3.6	MLM	Mira Loma Facility	\$ -	\$ (943,771)	\$ 917,609	\$ 205,383	\$ -	\$ 45,708	\$ 31,324	\$ -	\$ 288,273	\$ 28,827	\$ 259,446
B.3.2 to B.3.6	MMC	Mount McDill	\$ -	\$ (497,000)	\$ 483,223	\$ -	\$ 295,046	\$ 80,765	\$ 60,498	\$ -	\$ 422,532	\$ 42,253	\$ 380,279
B.3.2 to B.3.6	MFL	Mount Lukens	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	MFF	Mount Thom	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	MTW	Mount Washington	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	MVS	Monte Vista (Star Center)	\$ -	\$ (482,444)	\$ 482,444	\$ 354,930	\$ -	\$ 80,245	\$ 30,352	\$ -	\$ 465,528	\$ 46,553	\$ 418,975
B.3.2 to B.3.6	OAT	Oat Mountain OAT	\$ -	\$ (181,525)	\$ 176,493	\$ -	\$ -	\$ -	\$ 80,168	\$ -	\$ 75,136	\$ 7,514	\$ 67,623

**EXHIBIT C.4 - SCHEDULE OF PAYMENTS  
PHASE 3 - SUPPLY LMR SYSTEM COMPONENTS**

Deliverable/ Task/ Section No. <i>(Exhibit A, Exhibit B, or Base Document)</i>	Site ID	Deliverable	Total Unilateral Option Sum for Equipment <i>(Note 1)</i>	Equipment Purchase in Phase 1 Credit per Site <i>(Note 1)</i>	DTVRS	ACVRS	LARTCS	NMDN	Microwave	Credits <i>(Note 2)</i>	Total Contract Sum - Total Payable Amount for Phase 3 <i>(Note 1, 3, 8)</i>	10% Holdback Amount	Payable Amount Less 10% Holdback
B.3.2 to B.3.6	OMC	Oat Mountain OMC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	ONK	Oat Mountain Nike	\$ -	\$ -	\$ 203,799	\$ -	\$ -	\$ -	\$ 27,471	\$ -	\$ 231,270	\$ 23,127	\$ 208,143
B.3.2 to B.3.6	PHN	Puente Hills	\$ -	\$ (564,196)	\$ 524,774	\$ 365,910	\$ 297,006	\$ 80,565	\$ 32,899	\$ -	\$ 1,301,154	\$ -	\$ 1,301,154
B.3.2 to B.3.6	PRG	Portal Ridge	\$ -	\$ (497,000)	\$ 483,223	\$ 92,357	\$ 132,679	\$ 45,708	\$ 54,116	\$ -	\$ 327,945	\$ 32,795	\$ 295,151
B.3.2 to B.3.6	PSH	Pomona-1620 Hillcrest	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	RDNBPD	Redondo Beach PD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 212,620	\$ -	\$ -	\$ -
B.3.2 to B.3.6	RHT	Rolling Hills Transmit	\$ -	\$ (943,771)	\$ 917,609	\$ 237,432	\$ -	\$ 123,657	\$ 28,417	\$ -	\$ 395,364	\$ 39,536	\$ 355,828
B.3.2 to B.3.6	RIH	Rio Hondo	\$ -	\$ (943,464)	\$ 917,311	\$ 383,845	\$ 109,525	\$ 80,566	\$ 32,596	\$ -	\$ 580,379	\$ 58,038	\$ 522,341
B.3.2 to B.3.6	RPVE001	Rancho Palos Verde City Hall	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	SAG	San Augustine	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	SDW	San Dimas	\$ -	\$ (497,000)	\$ 483,223	\$ 205,519	\$ -	\$ 80,765	\$ 45,368	\$ -	\$ 317,874	\$ 31,787	\$ 286,087
B.3.2 to B.3.6	SGH	Signal Hill <sup>(Note 9)</sup>	\$ -	\$ (547,298)	\$ 483,223	\$ 289,775	\$ -	\$ -	\$ 42,926	\$ -	\$ 268,626	\$ 26,863	\$ 241,763
B.3.2 to B.3.6	SPC	San Pedro Hill	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	SPN	Saddle Peak <sup>(Note 9)</sup>	\$ -	\$ (1,002,901)	\$ 548,133	\$ 198,138	\$ 426,740	\$ 80,765	\$ 30,636	\$ -	\$ 281,512	\$ 28,151	\$ 253,361
B.3.2 to B.3.6	SUN	Sunset Ridge	\$ -	\$ -	\$ -	\$ 205,228	\$ 428,999	\$ 123,333	\$ 35,984	\$ -	\$ 793,544	\$ 79,354	\$ 714,189
B.3.2 to B.3.6	SVP	San Vicente Peak	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	SWP	Southwest Area Station	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	TOP	Topanga Peak <sup>(Note 9)</sup>	\$ -	\$ (547,158)	\$ 1,002,901	\$ -	\$ 79,904	\$ 80,765	\$ 39,457	\$ -	\$ 655,869	\$ 65,587	\$ 590,283
B.3.2 to B.3.6	TPK	Tejon Peak	\$ -	\$ (497,000)	\$ 483,223	\$ 92,357	\$ -	\$ 80,765	\$ 43,042	\$ -	\$ 202,388	\$ 20,239	\$ 182,149
B.3.2 to B.3.6	TWR	Tower Peak	\$ -	\$ (496,199)	\$ 482,444	\$ 197,515	\$ 423,935	\$ 45,189	\$ 37,676	\$ -	\$ 690,561	\$ 69,056	\$ 621,504
B.3.2 to B.3.6	VPC	Verdugo Peak (city)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	WAD	Walker Drive	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	WMP	Whittaker Middle Peak	\$ -	\$ (496,165)	\$ 482,412	\$ 92,033	\$ 423,818	\$ 45,167	\$ 38,076	\$ -	\$ 221,741	\$ 22,174	\$ 199,567
B.3.2 to B.3.6	WS1	100 Wilshire	\$ -	\$ -	\$ -	\$ 197,561	\$ -	\$ -	\$ 75,330	\$ -	\$ 272,892	\$ 27,289	\$ 245,602
B.3.2 to B.3.6	WTR	Whittaker Ridge	\$ -	\$ (496,165)	\$ 482,412	\$ 205,032	\$ 79,580	\$ 80,224	\$ 42,956	\$ -	\$ 394,038	\$ 39,404	\$ 354,634
B.3.2 to B.3.6	LAPD077	77TH Street Area Complex	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LAPDDVN	Devonshire Area station	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	FCCF	L.A. County Fire Command	\$ -	\$ -	\$ 548,134	\$ 334,775	\$ 136,826	\$ -	\$ 109,185	\$ -	\$ 1,128,920	\$ -	\$ 1,128,920
B.3.2 to B.3.6	LAPDVDC	Valley Dispatch Center	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6		FCCF_Core	\$ -	\$ -	\$ 404,329	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 404,329	\$ -	\$ 404,329
B.3.2 to B.3.6		LAPDVDC_Core	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,568	\$ -	\$ 41,568	\$ 4,157	\$ 37,412
<b>Site Equipment Subtotal</b>			\$ -	\$ (14,773,095)	\$ 18,127,273	\$ 5,914,712	\$ 6,835,111	\$ 2,075,992	\$ 1,511,229	\$ 212,620	\$ 22,015,456	\$ 1,571,700	\$ 20,443,756
<b>ADDITIONAL SITES (AMENDMENT NO. 10)</b>													
B.3.2 to B.3.6		<b>Equipment Delivery</b>											
B.3.2 to B.3.6	APC	Airport Courthouse	\$ -	\$ -	\$ 177,033	\$ -	\$ -	\$ -	\$ 36,176	\$ -	\$ 213,209	\$ -	\$ 213,209
B.3.2 to B.3.6	BCHCPRK	Beverly Hills-Coldwater Canyon Park	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LACF136	FS-136	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	LAHE	LA City Hall East <sup>(Note 4)</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.2 to B.3.6	OLI	Olinda	\$ -	\$ -	\$ 248,275	\$ 164,079	\$ -	\$ -	\$ 31,324	\$ -	\$ 443,678	\$ 44,368	\$ 399,310
<b>Subtotal for Additional Sites (Amendment No. 10)</b>			\$ -	\$ -	\$ 425,308	\$ 164,079	\$ -	\$ -	\$ 67,500	\$ -	\$ 656,887	\$ 44,368	\$ 612,519
<b>ADDITIONAL SITES (AMENDMENT NO. 17)</b>													
B.3.2 to B.3.6		<b>Equipment Delivery</b>											
B.3.2 to B.3.6	AGH	Agoura Hills	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240,747	\$ 24,075	\$ 216,672
B.3.2 to B.3.6	BUR1	Burnt Peak 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 770,548	\$ 77,055	\$ 693,493
B.3.2 to B.3.6	CCT	Criminal Court (Foltz)	\$ -	\$ -	\$ 547,631	\$ 101,375	\$ -	\$ -	\$ 49,600	\$ -	\$ 698,606	\$ -	\$ 698,606

## EXHIBIT C.4 - SCHEDULE OF PAYMENTS PHASE 3 - SUPPLY LMR SYSTEM COMPONENTS

Deliverable/ Task/ Section No. <i>(Exhibit A, Exhibit B, or Base Document)</i>	Site ID	Deliverable	Total Unilateral Option Sum for Equipment <i>(Note 1)</i>	Equipment Purchase in Phase 1 Credit per Site <i>(Note 1)</i>	DTVRS	ACVRS	LARTCS	NMDN	Microwave	Credits <i>(Note 2)</i>	Total Contract Sum - Total Payable Amount for Phase 3 <i>(Note 1, 3, 8)</i>	10% Holdback Amount	Payable Amount Less 10% Holdback
B.3.2 to B.3.6	CRN	Cerro Negro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 804,736	\$ 80,474	\$ 724,262
B.3.2 to B.3.6	FRP	Frost Peak (Upper Blue Ridge)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 877,470	\$ 87,747	\$ 789,723
B.3.2 to B.3.6	GMT	Grass Mountain	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 483,223	\$ 48,322	\$ 434,901
B.3.2 to B.3.6	H-17A	H-17 Helipad	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 215,658	\$ 21,566	\$ 194,092
B.3.2 to B.3.6	LARICSHQ	LA-RICS Headquarters	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 62,648	\$ 6,265	\$ 56,383
B.3.2 to B.3.6	LASDTEM	Temple Station	\$ -	\$ -	\$ 218,743	\$ -	\$ -	\$ -	\$ 43,430	\$ -	\$ 262,173	\$ -	\$ 262,173
B.3.2 to B.3.6	LPC	Loop Canyon	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 277,272	\$ 27,727	\$ 249,545
B.3.2 to B.3.6	LEPS	Lower Encinal Pump Station	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 823,549	\$ 82,355	\$ 741,194
B.3.2 to B.3.6	MIR	Mirador	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 862,212	\$ 86,221	\$ 775,991
B.3.2 to B.3.6	MML	Magic Mountain Link	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 825,613	\$ 82,561	\$ 743,052
B.3.2 to B.3.6	MTL2	Mount Lukens 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,482,416	\$ 148,242	\$ 1,334,174
B.3.2 to B.3.6	PDC	Pacific Design Center	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 742,588	\$ 74,259	\$ 668,329
B.3.2 to B.3.6	PLM	Palmdale Station	\$ -	\$ -	\$ 1,512,367	\$ -	\$ -	\$ -	\$ 39,134	\$ -	\$ 1,551,502	\$ -	\$ 1,551,502
B.3.2 to B.3.6	PMT	Pine Mountain	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 483,223	\$ 48,322	\$ 434,901
B.3.2 to B.3.6	PWT	Portthead Tank	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 314,877	\$ 31,488	\$ 283,389
B.3.2 to B.3.6	VPK	Verdugo Peak County) <sup>(Note 9)</sup>	\$ -	\$ (522,426)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,011,415	\$ 101,142	\$ 910,274
<b>Subtotal for Additional Sites (Amendment No. 17)</b>				\$ (522,426)	\$ 2,278,741	\$ 101,375	\$ -	\$ -	\$ 132,164	\$ -	\$ 12,790,476	\$ 1,027,820	\$ 11,762,657
B.3.7		Consoles for LARTCS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 502,275	\$ 50,228	\$ 452,048
B.3.8		Logging Recorder	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,743,216	\$ -	\$ 1,743,216
B.3.9		System Management and Monitoring Subsystem	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 445,681	\$ 44,568	\$ 401,113
B.4.6		FCC Licensing <sup>(Note 6)</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.10		Pre-Installation Testing Acceptance - Core Staging for SOT Prep	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B.3.10.1.DTVRS		Pre-Installation Testing Acceptance - Core Staging for SOT Prep (DTVRS)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,344,147	\$ 234,415	\$ 2,109,732
B.3.10.1.ACVRs		Pre-Installation Testing Acceptance - Core Staging for SOT Prep (ACVRs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 746,582	\$ 74,658	\$ 671,924
B.3.10.1.LARTCS		Pre-Installation Testing Acceptance - Core Staging for SOT Prep (LARTCS)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 966,294	\$ 96,629	\$ 869,664
B.3.10.1.NMDN		Pre-Installation Testing Acceptance - Core Staging for SOT Prep (NMDN)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 254,660	\$ 25,466	\$ 229,194
B.3.10.1.FINAL		Pre-Installation Testing Acceptance - Core Staging for SOT Prep FINAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,626	\$ 25,063	\$ 225,563
B.3.10.2.BALANCE		Pre-Installation Testing Acceptance - Balance of Sites by Site	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,456,627	\$ 245,663	\$ 2,210,964
		Equipment Shipment: Credit for Portable Radio Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (361,900)	\$ (36,190)	\$ (325,710)
Base.22.3.2		Performance Bond for Phase 3 - Supply LMR System Components	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 474,041	\$ -	\$ 474,041
		Total Lease Costs for Phase 3 - Supply LMR System Components		N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Base.22.2.1		Liability Insurance (General and Professional)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 440,691	\$ -	\$ 440,691
<b>Total for Phase 3 - Supply LMR System Components:</b>			\$ -	\$ (15,295,521)	\$ 20,831,322	\$ 6,180,166	\$ 6,835,111	\$ 2,075,992	\$ 1,710,893	\$ 212,620	\$ 45,725,759	\$ 3,404,387	\$ 42,321,372

Note 1: Pursuant to Amendment No. Three, effective as of December 19, 2013, (a) Contractor's provision and implementation of certain equipment reflected in Exhibit C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, was moved from Phases 3 and 4 to Phase 1; and (b) Contractor was engaged to provide and implement under Phase 1, certain additional equipment reflected in Exhibit C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, (the equipment described in clauses (a) and (b) is collectively referred to as the "Specified Equipment").

## EXHIBIT C.4 - SCHEDULE OF PAYMENTS PHASE 3 - SUPPLY LMR SYSTEM COMPONENTS

Deliverable/ Task/ Section No. <i>(Exhibit A, Exhibit B, or Base Document)</i>	Site ID	Deliverable	Total Unilateral Option Sum for Equipment <i>(Note 1)</i>	Equipment Purchase in Phase 1 Credit per Site <i>(Note 1)</i>	DTVRS	ACVRS	LARTCS	NMDN	Microwave	Credits <i>(Note 2)</i>	Total Contract Sum Total Payable Amount for Phase 3 <i>(Note 1, 3, 8)</i>	10% Holdback Amount	Payable Amount Less 10% Holdback
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In connection therewith, (i) a Unilateral Option Sum in the amount of \$4,362,681 was moved from Schedules C.4 (Schedule of Payments Phase 3 – Supply LMR System Components) and C.5 (Schedule of Payments Phase 4 – System Implementation) to Exhibit C (Schedule of Payments) to Schedule C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, and thereafter such Unilateral Option Sum was converted to a Contract Sum; and (ii) a Unilateral Option Sum in the amount of \$1,285,230 was added to Schedule C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, and thereafter such Unilateral Option Sum was converted to a Contract Sum.

Note 2: Pursuant to Amendment No. Nine, effective November 19, 2014, the Authority removed 1 LMR System Site for Phases 1 through 4. As such, Credits were realized in the amount of \$646,001. However, the cost for preparing Project Descriptions for 26 potential replacement sites in the amount of \$303,524 was taken from the Credits. The remaining Credit balance of \$342,477 is reserved for use for a future replacement site.

Note 3: Pursuant to Amendment No. Ten, effective February 17, 2015, Exhibit C.3 (Schedule of Prices - Supply LMR System Components) was amended by Amendment No. 10 to reflect the conversion of Unilateral Option Sum to Contract Sum for (a) the conversion of Unilateral Option Sum to Contract Sum for for eight (8) LMR System Site currently contemplated in the Design and the addition of five (5) LMR System Sites; and (b) the removal of four (4) sites.

Note 4: Credit in the amount of \$547,158 for LAH was moved to LAHE in Amendment No. 10 for recordkeeping purposes.

Note 5: Pursuant to Amendment No. Eleven, effective April 28, 2015, Exhibit C.3 (Schedule of Prices - Supply LMR System Components) was amended by Amendment No. 11 to reflect the a credit in the amount of \$547,158 that was moved from LAH to LAHE in Amendment No. 10.

Note 6: Pursuant to Amendment No. Twelve, effective August 27, 2015, Exhibit C.3 (Schedule of Prices - Supply LMR System Components) was amended by Amendment No. 12 to shift FCC Licensing costs to Phase 1, in the amount of \$284,041.

Note 7: Pursuant to Amendment No. Sixteen, effective December 23, 2015, the Authority removed thirty-one (31) LMR System Sites for Phase 1. As such, Credits were realized in the amount of \$1,132,374. However, adding seventeen (17) new LMR System Sites to Phase 1 in the amount of \$635,537 will be taken from the credited amount of \$1,132,374, bringing the total amount of credits down to \$363,599 (inclusive of Phase 1 Work performed for 75% drawings and building permits in the amount of \$133,238) and shall be reflected in the Whitaker Middle Peak site in Phase 3. The remaining Credit balance of \$363,599 is reserved for use for a future replacement site(s).



**EXHIBIT C.5 - SCHEDULE OF PAYMENTS**  
**PHASE 4 - LMR SYSTEM IMPLEMENTATION**

Deliverable/Task /Section No. <small>(Exhibit A, Exhibit B, or Base Document)</small>	Site ID	Deliverable	Phase 4 Total					
			Qty.	Unilateral Option Sum for Site Installation Only	Unilateral Option Sum for Acceptance Including Project Management <small>(Note 1)</small>	Contract Sum - Payable Amount for Phase 4	10% Holdback Amount	Payable Amount Less 10% Holdback
<b>B.4.2.2</b>		<b>Site Installation Test Acceptance</b>						
B.4.2.2	BAH	Baldwin Hills		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	BJM	Black Jack Peak		\$ -	\$ -	\$ 224,415	\$ 22,441	\$ 201,973
<b>B.4.2.2</b>	<b>BMT</b>	<b>Bald Mountain</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 139,685</b>	<b>\$ 13,968</b>	<b>\$ 125,716</b>
B.4.2.2	BRK	Blue Rock		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	BUR	Burnt Peak		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	BVG	Beverly Glen		\$ -	\$ -	\$ -	\$ -	\$ -
<b>B.4.2.2</b>	<b>CCB</b>	<b>Compton Court Building</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 97,624</b>	<b>\$ 9,762</b>	<b>\$ 87,862</b>
B.4.2.2	CEP	Century Plaza		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	CLM	Claremont		\$ -	\$ -	\$ 73,209	\$ 7,321	\$ 65,888
B.4.2.2	CPK	Castro Peak		\$ -	\$ -	\$ 193,987	\$ 19,399	\$ 174,589
B.4.2.2	DPK	Dakin Peak		\$ -	\$ -	\$ 200,523	\$ 20,052	\$ 180,471
B.4.2.2	ELSGDPD	El Segundo PD		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	ENC1	Encinal 1 (Fire Camp)		\$ -	\$ -	\$ 86,186	\$ 8,619	\$ 77,568
B.4.2.2	GRM	Green Mountain		\$ -	\$ -	\$ 203,689	\$ 20,369	\$ 183,320
<b>B.4.2.2</b>	<b>HPK</b>	<b>Hauser Peak</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 169,859</b>	<b>\$ 16,986</b>	<b>\$ 152,873</b>
B.4.2.2	JPK	Johnstone Peak		\$ -	\$ -	\$ 197,335	\$ 19,734	\$ 177,602
B.4.2.2	LACF028	FS-28		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF056	FS-56		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF071	FS-71		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF072	FS-72		\$ -	\$ -	\$ 86,847	\$ 8,685	\$ 78,162
B.4.2.2	LACF077	FS-77		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF084	FS-84		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF091	FS-91		\$ -	\$ -	\$ 42,234	\$ 4,223	\$ 38,010
B.4.2.2	LACF099	FS-99		\$ -	\$ -	\$ 0	\$ -	\$ -
B.4.2.2	LACF119	FS-119		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF144	FS-144		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF149	FS-149		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF157	FS-157		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF196	FS-169		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACFCP09	CP-9		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACFDEL	Del Valle Training		\$ -	\$ -	\$ 68,482	\$ 6,848	\$ 61,634
B.4.2.2	LAH	LA City Hall		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LBR	Lower Blue Ridge		\$ -	\$ -	\$ -	\$ -	\$ -
<b>B.4.2.2</b>	<b>LDWP243</b>	<b>DWP Sylmar Water Ladder</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 62,769</b>	<b>\$ 6,277</b>	<b>\$ 56,492</b>
B.4.2.2	MAM	Magic Mountain		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	MDI	Mount Disappointment		\$ -	\$ -	\$ 210,952	\$ 21,095	\$ 189,856
B.4.2.2	MLE	Mount Lee		\$ -	\$ -	\$ 225,470	\$ 22,547	\$ 202,923
B.4.2.2	MLM	Mira Loma Facility		\$ -	\$ -	\$ 112,343	\$ 11,234	\$ 101,109
B.4.2.2	MMC	Mount McDill		\$ -	\$ -	\$ 172,391	\$ 17,239	\$ 155,152
B.4.2.2	MFL	Mount Lukens		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	MTT	Mount Thom		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	MTW	Mount Washington		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	MVS	Monte Vista (Star Center)		\$ -	\$ -	\$ 99,553	\$ 9,955	\$ 89,598
B.4.2.2	OAT	Oat Mountain OAT		\$ -	\$ -	\$ 78,416	\$ 7,842	\$ 70,574
B.4.2.2	OMC	Oat Mountain OMC		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	ONK	Oat Mountain Nike		\$ -	\$ -	\$ 99,110	\$ 9,911	\$ 89,199
<b>B.4.2.2</b>	<b>PHN</b>	<b>Puente Hills</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 165,029</b>	<b>\$ 16,503</b>	<b>\$ 148,526</b>
B.4.2.2	PRG	Portal Ridge		\$ -	\$ -	\$ 129,425	\$ 12,942	\$ 116,482
B.4.2.2	PSH	Pomona 1620 Hillcrest		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	RDNBPD	Redondo Beach PD		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	RHT	Rolling Hills Transmit		\$ -	\$ -	\$ 136,626	\$ 13,663	\$ 122,964
B.4.2.2	RIH	Rio Hondo		\$ -	\$ -	\$ 151,648	\$ 15,165	\$ 136,483
<b>B.4.2.2</b>	<b>RPVE001</b>	<b>Rancho Palos Verde City Hall</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
B.4.2.2	SAG	San Augustine		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	SDW	San Dimas		\$ -	\$ -	\$ 114,799	\$ 11,480	\$ 103,319
B.4.2.2	SGH	Signal Hill		\$ -	\$ -	\$ 116,741	\$ 11,674	\$ 105,067
B.4.2.2	SPC	San Pedro Hill		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	SPN	Saddle Peak		\$ -	\$ -	\$ 200,031	\$ 20,003	\$ 180,028
B.4.2.2	SUN	Sunset Ridge		\$ -	\$ -	\$ 143,789	\$ 14,379	\$ 129,410
B.4.2.2	SVP	San Vicente Peak		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	SWP	Southwest Area Station		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	TOP	Topanga Peak		\$ -	\$ -	\$ 125,084	\$ 12,508	\$ 112,575
B.4.2.2	TPK	Tejon Peak		\$ -	\$ -	\$ 120,939	\$ 12,094	\$ 108,846
B.4.2.2	TWR	Tower Peak		\$ -	\$ -	\$ 179,547	\$ 17,955	\$ 161,592
B.4.2.2	VPC	Verdugo Peak (City)		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	WAD	Walker Drive		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	WMP	Whittaker Middle Peak		\$ -	\$ -	\$ 174,731	\$ 17,473	\$ 157,258
B.4.2.2	WS1	100 Wilshire		\$ -	\$ -	\$ 87,459	\$ 8,746	\$ 78,713
B.4.2.2	WTR	Whittaker Ridge		\$ -	\$ -	\$ 117,591	\$ 11,759	\$ 105,832
B.4.2.2	LAPD077	77TH Street Area Complex		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LAPDDVN	Devonshire Area station		\$ -	\$ -	\$ -	\$ -	\$ -

**EXHIBIT C.5 - SCHEDULE OF PAYMENTS  
PHASE 4 - LMR SYSTEM IMPLEMENTATION**

Deliverable/Task /Section No. (Exhibit A, Exhibit B, or Base Document)	Site ID	Deliverable	Phase 4 Total					
			Qty.	Unilateral Option Sum for Site Installation Only	Unilateral Option Sum for Acceptance Including Project Management (Note 1)	Contract Sum - Payable Amount for Phase 4	10% Holdback Amount	Payable Amount Less 10% Holdback
B.4.2.2	FCCF	L.A. County Fire Command		\$ -	\$ -	\$ 215,429	\$ 21,543	\$ 193,886
B.4.2.2	LAPDVC	Valley Dispatch Center		\$ -	\$ -	\$ -	\$ -	\$ -
<b>Phase 4 Subtotals Phase 4 - LMR System Implementation Per Site Detail</b>				\$ -	\$ -	\$ 5,023,946	\$ 502,395	\$ 4,521,551
<b>ADDITIONAL SITES (AMENDMENT NO. 10)</b>								
B.4.2.2		Site Installation Test Acceptance						
B.4.2.2	APC	Airport Courthouse		\$ -	\$ -	\$ 39,361	\$ 3,936	\$ 35,425
B.4.2.2	BCHCPRK	Beverly Hills' Coldwater Canyon Park		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LACF136	FS 136		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	LAHE	LA City Hall East		\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.2	OLI	Olinda		\$ -	\$ -	\$ 60,600	\$ 6,060	\$ 54,540
<b>Subtotal for Additional Sites (Amendment No. 10)</b>				\$ -	\$ -	\$ 99,961	\$ 9,996	\$ 89,965
<b>ADDITIONAL SITES (AMENDMENT NO. 17)</b>								
B.4.2.2		Site Installation Test Acceptance						
B.4.2.2	AGH	Agoura Hills		\$ -	\$ -	\$ 50,009	\$ 5,001	\$ 45,008
B.4.2.2	BUR1	Burnt Peak 1		\$ -	\$ -	\$ 178,515	\$ 17,852	\$ 160,664
B.4.2.2	CCT	Criminal Court (Foltz)		\$ -	\$ -	\$ 88,854	\$ 8,885	\$ 79,969
B.4.2.2	CRN	Cerro Negro		\$ -	\$ -	\$ 94,813	\$ 9,481	\$ 85,332
B.4.2.2	FRP	Frost Peak (Upper Blue Ridge)		\$ -	\$ -	\$ 210,218	\$ 21,022	\$ 189,196
B.4.2.2	GMT	Grass Mountain		\$ -	\$ -	\$ 65,679	\$ 6,568	\$ 59,111
B.4.2.2	H-17A	H-17 Helipad		\$ -	\$ -	\$ 45,737	\$ 4,574	\$ 41,163
B.4.2.2	LARICSHQ	LA-RICS Headquarters		\$ -	\$ -	\$ 93,778	\$ 9,378	\$ 84,400
B.4.2.2	LASDTEM	Los Angeles County Sheriff's Department Temple Station		\$ -	\$ -	\$ 45,805	\$ 4,581	\$ 41,225
B.4.2.2	LPC	Loop Canyon		\$ -	\$ -	\$ 51,893	\$ 5,189	\$ 46,704
B.4.2.2	LEPS	Lower Encinal Pump Station		\$ -	\$ -	\$ 87,347	\$ 8,735	\$ 78,612
B.4.2.2	MIR	Mirador		\$ -	\$ -	\$ 123,518	\$ 12,352	\$ 111,166
B.4.2.2	MML	Magic Mountain Link		\$ -	\$ -	\$ 217,931	\$ 21,793	\$ 196,138
B.4.2.2	MTL2	Mount Lukens 2		\$ -	\$ -	\$ 214,060	\$ 21,406	\$ 192,654
B.4.2.2	PDC	Pacific Design Center		\$ -	\$ -	\$ 102,627	\$ 10,263	\$ 92,364
B.4.2.2	PLM	Los Angeles County Sheriff's Department Palmdale Station		\$ -	\$ -	\$ 48,384	\$ 4,838	\$ 43,546
B.4.2.2	PMT	Pine Mountain		\$ -	\$ -	\$ 65,679	\$ 6,568	\$ 59,111
B.4.2.2	PWT	Portthead Tank		\$ -	\$ -	\$ 61,450	\$ 6,145	\$ 55,305
B.4.2.2	VPK	Verdugo Peak County		\$ -	\$ -	\$ 119,052	\$ 11,905	\$ 107,147
<b>Subtotal for Additional Sites (Amendment No. 17)</b>				\$ -	\$ -	\$ 1,965,349	\$ 29,457	\$ 265,109
B.4.1.1.1.5		Consoles	9	\$ -	\$ -	\$ 58,462	\$ 5,846	\$ 52,616
B.4.1.1.1.5		Logging Recorder	1	\$ -	\$ -	\$ 6,496	\$ -	\$ 6,496
B.4.1.1.1.7		System Management and Monitoring Subsystem	1	\$ -	\$ -	Included in Phase 3		
B.1.15		Inventory and Maintenance Tracking Subsystem		\$ -	\$ -	Included in Phase 3		
B.4.3		Training		\$ -	\$ -	Included		
B.4.1.2		Spares and Test Equipment	1	\$ -	\$ -	Included		
B.4.2		Acceptance Testing	1	\$ -	\$ -			
B.4.2.3		Functional Test Acceptance	1	\$ -	\$ -	\$ 423,142	\$ 42,314	\$ 380,828
B.4.2.4		Special Operational Test Acceptance	1	\$ -	\$ -	\$ 1,375,212	\$ 137,521	\$ 1,237,690
B.4.2.5		Voice System Testing Acceptance	1	\$ -	\$ -	\$ 528,928	\$ 52,893	\$ 476,035
B.4.2.6		Stress Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.8		Voice Wide Area Coverage Test Acceptance		\$ -	\$ -			
B.4.2.8.Zone 1		Basin Zone Coverage Test Acceptance	1	\$ -	\$ -	\$ 846,284	\$ 84,628	\$ 761,656
B.4.2.8.Zone 2		Northern Desert Coverage Test Acceptance	1	\$ -	\$ -	\$ 740,499	\$ 74,050	\$ 666,449
B.4.2.8.Zone 3		Angeles National Forest Coverage Test Acceptance	1	\$ -	\$ -	\$ 634,713	\$ 63,471	\$ 571,242
B.4.2.8.Zone 4		Santa Monica Mountains Coverage Test Acceptance	1	\$ -	\$ -	\$ 423,142	\$ 42,314	\$ 380,828
B.4.2.8.Zone 5		CA-14 Corridor Coverage Test Acceptance	1	\$ -	\$ -	\$ 423,142	\$ 42,314	\$ 380,828
B.4.2.8.Zone 6		Foothills Coverage Test Acceptance	1	\$ -	\$ -	\$ 423,142	\$ 42,314	\$ 380,828
B.4.2.8.Zone 7		Catalina Island Coverage Test Acceptance	1	\$ -	\$ -	\$ 317,357	\$ 31,736	\$ 285,621
B.4.2.9		Voice Aerial Coverage Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.10		Voice Waterway Coverage Test Acceptance	1	\$ -	\$ -	\$ 211,571	\$ 21,157	\$ 190,414
B.4.2.13		Voice Railway Coverage Test Acceptance	1	\$ -	\$ -	\$ 211,571	\$ 21,157	\$ 190,414
B.4.2.14		Voice Freeway Coverage Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.15		Voice Subscriber Access Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.17		Voice System Burn-in Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.18.1		NMDN Throughput Test Acceptance	1	\$ -	\$ -	\$ 528,928	\$ 52,893	\$ 476,035
B.4.2.18.2		NMDN Wide Area Coverage Test Acceptance		\$ -	\$ -			
B.4.2.18.2.Zone 1		Basin Zone Coverage Test Acceptance	1	\$ -	\$ -	\$ 528,928	\$ 52,893	\$ 476,035
B.4.2.18.2.Zone 2		Northern Desert Coverage Test Acceptance	1	\$ -	\$ -	\$ 423,142	\$ 42,314	\$ 380,828
B.4.2.18.2.Zone 3		Angeles National Forest Coverage Test Acceptance	1	\$ -	\$ -	\$ 423,142	\$ 42,314	\$ 380,828
B.4.2.18.2.Zone 4		Santa Monica Mountains Coverage Test Acceptance	1	\$ -	\$ -	\$ 211,571	\$ 21,157	\$ 190,414
B.4.2.18.2.Zone 5		CA-14 Corridor Coverage Test Acceptance	1	\$ -	\$ -	\$ 211,571	\$ 21,157	\$ 190,414
B.4.2.18.2.Zone 6		Foothills Coverage Test Acceptance	1	\$ -	\$ -	\$ 211,571	\$ 21,157	\$ 190,414

**EXHIBIT C.5 - SCHEDULE OF PAYMENTS  
PHASE 4 - LMR SYSTEM IMPLEMENTATION**

Deliverable/Task /Section No. <i>(Exhibit A, Exhibit B, or Base Document)</i>	Site ID	Deliverable	Phase 4 Total					
			Qty.	Unilateral Option Sum for Site Installation Only	Unilateral Option Sum for Acceptance Including Project Management <i>(Note 1)</i>	Contract Sum - Payable Amount for Phase 4	10% Holdback Amount	Payable Amount Less 10% Holdback
B.4.2.18.2.Zone 7		Catalina Island Coverage Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.18.5		NMDN Data Aerial Coverage Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.18.6		NMDN Fire Stn & Parking Coverage Test Acceptance	1	\$ -	\$ -	\$ -	\$ -	\$ -
B.4.2.18.7		NMDN Freeway Coverage Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.18.8		NMDN Waterway Coverage Test Acceptance	1	\$ -	\$ -	\$ 211,571	\$ 21,157	\$ 190,414
B.4.2.18.9		NMDN Projected Load Test Acceptance	1	\$ -	\$ -	\$ 211,571	\$ 21,157	\$ 190,414
B.4.2.18.10		NMDN CAD Baseline System Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.2.18.11		NMDN Burn-in Test Acceptance	1	\$ -	\$ -	\$ 105,786	\$ 10,579	\$ 95,207
B.4.4.1		Final Migration/Cutover Plan Delivered		\$ -	\$ -	Included	\$ -	\$ -
B.4.5		Final System Support Plan Delivered		\$ -	\$ -	Included	\$ -	\$ -
B.4.6		Final Disaster Recovery Plan Delivered		\$ -	\$ -	Included	\$ -	\$ -
B.4.7		Final Special Event Plans Delivered		\$ -	\$ -	Included	\$ -	\$ -
B.4.8/Base.11.2.1		Final LMR System Acceptance		\$ -	\$ -	As provided for in Base.11.2.1	\$ -	\$ -
B.4.9		Final Warranty Plan Delivered		\$ -	\$ -	Included	\$ -	\$ -
		Credit for Services Performed in Phase 1	1	\$ -	\$ -	\$ (765,576)	\$ (76,558)	\$ (689,018)
		Project Management	1	\$ -	\$ -	Included as Reflected	\$ -	\$ -
Base.22.3.2		Performance Bond	1	\$ -	\$ -	\$ 99,722	\$ -	\$ 99,722
		Total Lease Costs		\$ -	\$ -	\$ -	\$ -	\$ -
Base.22.2.1		Liability Insurance (Professional and General)	1	\$ -	\$ -	\$ 527,500	\$ -	\$ 527,500
B.4.10		Phase 4 Completion Acceptance		\$ -	\$ -	\$ 10,241,502	\$ 1,024,150	\$ 9,217,352
<b>Total for Phase 4 - LMR System Implementation:</b>				\$ -	\$ -	\$ 27,835,912	\$ 2,553,141	\$ 23,611,987

Note 1: Pursuant to Amendment No. Three, effective as of December 19, 2013, (a) Contractor's provision and implementation of certain equipment reflected in Exhibit C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, was moved from Phases 3 and 4 to Phase 1; and (b) Contractor was engaged to provide and implement under Phase 1, certain additional equipment reflected in Exhibit C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, (the equipment described in clauses (a) and (b) is collectively referred to as the "Specified Equipment").

In connection therewith, (i) a Unilateral Option Sum in the amount of \$4,362,681 was moved from Schedules C.4 (Schedule of Payments Phase 3 – Supply LMR System Components) and C.5 (Schedule of Payments Phase 4 – System Implementation) to Exhibit C (Schedule of Payments) to Schedule C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, and thereafter such Unilateral Option Sum was converted to a Contract Sum; and (ii) a Unilateral Option Sum in the amount of \$1,285,230 was added to Schedule C.2 (Schedule of Payments Phase 1 – System Design) to Exhibit C (Schedule of Payments), as amended by Amendment No. Three, and thereafter such Unilateral Option Sum was converted to a Contract Sum.

Note 2: Pursuant to Amendment No. Nine, effective November 19, 2014, the Authority removed 1 LMR System Site for Phases 1 through 4. As such, Credits were realized in the amount of \$646,001. However, the cost for preparing Project Descriptions for 26 potential replacement sites in the amount of \$303,524 was taken from the Credits. The remaining Credit balance of \$342,477 is reserved for use for a future replacement site.

Note 3: Pursuant to Amendment No. Ten, effective February 17, 2015, Exhibit C.4 (Schedule of Prices - LMR System Implementation) was amended by Amendment No. 10 to reflect the conversion of Unilateral Option Sum to Contract Sum for (a) the conversion of Unilateral Option Sum to Contract Sum for for eight (8) LMR System Site currently contemplated in the Design and the addition of five (5) LMR System Sites; and (b) the removal of four (4) sites.

Note 4: Pursuant to Amendment No. Eleven, effective April 28, 2015, Exhibit C.4 (Schedule of Prices - LMR System Implementation) was amended by Amendment No. 11 to reflect the project administration costs for one (1) LMR System Site.

Note 5: Pursuant to Amendment No. Seventeen, thirty-four (34) LMR System Sites were removed from further consideration; nineteen (19) LMR System Sites were included as part of the LMR System; and Phase 4 Completion Acceptance was included. In connection therewith, and in addition to all activities contemplated in this Phase 4, Unilateral Option Sums, not previously exercised, were converted into Contract Sums.

Note 6: Pursuant to Amendment No. Eleven, effective April 28, 2015, Exhibit C.4 (Schedule of Prices - LMR System Implementation) was amended by Amendment No. 11 to reflect the project administration costs for one (1) LMR System Site.

Note 7: Pursuant to Amendment No. Nineteen, one (1) LMR System Site was removed from further consideration in Phases 1-4. Also, two (2) LMR System Sites were reconciled in Phases 2-4.