



AGENDA

LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

BOARD OF DIRECTORS MEETING

Thursday, February 4, 2021 • 9:00 a.m.

Microsoft Teams Meeting*

Link: [Click here to join the meeting](#)

Call-in Number for Board Members and Public:

Telephone Number: (323) 886-6924

Conference ID: 117 854 667#

Video Conferencing Device:

493366865@t.plcm.vc

VTC Conference ID: 112 354 367 6

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

AGENDA POSTED: January 29, 2021

Complete agendas are available on the Authority's website at <http://www.la-rics.org>.

**The procedures used for this Teleconference Meeting are permitted pursuant to Executive Order N-29-20 issued on March 17, 2020, by the Governor of the State of California.*

Members:

1. **Fesia Davenport**, CEO, County of Los Angeles
2. **Daryl L. Osby**, Vice-Chair, Fire Chief, County of Los Angeles Fire Dept.
3. **Alex Villanueva**, Chair, Sheriff, Los Angeles County Sheriff's Dept.
4. **Cathy Chidester**, Dir., EMS Agency, County of LADHS
5. **Chris Donovan**, Fire Chief, City of El Segundo Fire Dept.
6. **Vacant**
7. **Mark R. Alexander**, City Manager, CA Contract Cities Assoc.
8. **Mark Fronterotta**, Chief of Police, City of Inglewood Police Dept.
9. **Chris Nunley**, Chief of Police, City of Signal Hill Police Dept.
10. **John Curley**, Chief of Police, City of Covina Police Dept.

Alternates:

John Geiger, General Manager, CEO, County of Los Angeles
Thomas Ewald, Deputy Fire Chief, County of Los Angeles Fire Dept.
Mark Glatt, Chief, Los Angeles County Sheriff's Dept.
Kay Fruhwirth, Asst., Dir., EMS Agency, County of LADHS
Vacant
Brian Solinsky, Deputy Chief, City of South Pasadena Police Dept.
Marcel Rodarte, Executive Dir., CA Contract Cities Assoc.
Ed Ridens, Deputy Chief, City of Inglewood Police Dept.
Brian Leyn, Captain, City of Signal Hill Police Dept.
David Povero, Captain, City of Covina Police Dept.

Officers:

Scott Edson, Executive Director
Arlene Barerra, County of Los Angeles Auditor-Controller
Keith Knox, County of Los Angeles, Treasurer and Tax Collector
Priscilla Dalrymple, 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)

A. January 7, 2021 – Minutes

Agenda Item A

IV. PUBLIC COMMENTS

V. CONSENT CALENDAR – NONE

VI. REPORTS (B-E)

B. Director's Report – Scott Edson

- Executive Summary

Agenda Item B

C. Project Manager's Report – Justin Delfino

Agenda Item C

D. Joint Operations and Technical Committee Chairs Report – Sven Crongeyer

E. Finance Committee Chairs Report – No Report

VII. DISCUSSION ITEMS (F-J)

F. PSBN Round 2 Implementation and Construction Update – Chris Odenthal

Agenda Item F

G. Frequency and Licensing Issues Impacting Land Mobile Radio Deployment –
Chris Odenthal and Ted Pao

Agenda Item G



- H. Update on Coastal Development Permit Process for Five Land Mobile Radio System Sites – Tanya Roth

Agenda Item H

- I. Outreach Update – Wendy Stallworth-Tait and Sven Crongeyer

Agenda Item I

- J. LMR System Capacity and Coverage Update

Agenda Item J

VIII. ADMINISTRATIVE MATTERS (K)

K. APPROVE AMENDMENT NO. 53 TO AGREEMENT NO. LA-RICS 007 FOR LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM LAND MOBILE RADIO SYSTEM

It is recommended that your Board:

1. Make the following findings with respect to the LMR Change Order Modifications:
 - a. Find that (a) approval of Amendment No. 53 to contemplate certain Change Order Modifications at ten (10) LMR System Sites, Burnt Peak 1 (BUR1), Frost Peak (FRP), Grass Mountain (GMT), Johnstone Peak 2 (JPK2), Loop Canyon (LPC), Magic Mountain Link (MML), Mount Lukens (MTL2), Pine Mountain (PMT), Whitaker Middle Peak (WMP) and Whitaker Ridge (WTR) related to tower finishing work, is within the scope of the Final Environmental Impact Report (EIR) prepared for the LA-RICS LMR System, which was previously certified by your Board under the California Environmental Quality Act (CEQA) on March 29, 2016; (b) that the environmental findings and Mitigation Monitoring Program previously adopted by your Board are applicable to the currently recommended actions; and (c) there are no changes to the project at these sites or to the circumstances under which the project is undertaken that require revisions to the previous EIR due to new significant effects or a substantial increase in the severity of previously identified significant effects.



- b. Find that (a) approval of Amendment No. 53 to contemplate certain Change Order Modifications at one (1) LMR System Site, Mount Disappointment (MDI) related to utility power work and tower finishing work, is within the scope of the design, construction, implementation, operation and maintenance activities for the LMR System previously authorized at this one (1) site, which your Board previously found statutorily exempt from review under CEQA on February 5, 2015, pursuant to Public Resources Code Section 21080.25, the exemption adopted specifically for the LA-RICS, and find that any underground utility connection work that may occur outside of MDI site, if needed to provide network connectivity to the LMR System and/or to the nearest utility interconnection with adequate capacity for commercial power delivery to the site, is categorically exempt under CEQA pursuant to Guidelines section 15301 (existing facilities), 15303 (new construction or conversion of small structures), and 15304 (minor alterations to land).
2. Approve Amendment No. 53 (Enclosure) to Agreement No. LA-RICS 007 for a LMR System with Motorola Solutions, Inc. (Motorola), which revises the Agreement to incorporate certain LMR Change Order Modifications as further described in this Board Letter for a total cost increase in an amount not to exceed \$342,460.
3. Authorize an increase to the Maximum Contract Sum in an amount not to exceed \$342,460, when taking the recommended actions into consideration from \$290,604,493 to \$290,946,953.
4. Allow for the issuance of one or more Notices to Proceed for the Work contemplated in Amendment No. 53.
5. Delegate authority to the Executive Director to execute Amendment No. 53, in substantially similar form, to the enclosed Amendment (Enclosure).

Agenda Item K

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) of Government Code Section 54956.9) (1 case).



XII. ADJOURNMENT AND NEXT MEETING:

Thursday, March 4, 2021, at 9:00 a.m., via Microsoft Teams / Teleconference Meeting.



BOARD MEETING INFORMATION

In accordance with Executive Order No. 25-20 on March 17, 2020 by the Governor of the State of California, this Meeting can be conducted via teleconference. Members of the public are invited to participate in the Teleconference meeting via the phone number provided above, and 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) requests 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.)

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 as soon as possible. (323) 881-8291 or (323) 881-8295.

SI REQUIERE SERVICIOS DE TRADUCCION, FAVOR DE NOTIFICAR LA OFICINA LO MAS PRONTO POSIBLE. (323) 881-8291 o (323) 881-8295.

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



BOARD OF DIRECTORS MEETING MINUTES

**LOS ANGELES REGIONAL
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY**

Thursday, January 7, 2021 • 9:00 a.m.
Conducted via Microsoft Teams Meeting*

Board Members Present:

Cathy Chidester, Dir., EMS Agency, County of LADHS
Mark Alexander, City Manager, CA Contract Cities Assoc.
Mark Fronterotta, Chief of Police, City of Inglewood Police Dept.
Chris Nunley, Chief of Police, City of Signal Hill Police Dept.
John Curley, Chief of Police, City of Covina Police Dept.

Alternates For Board Members Present:

John Geiger, General Manager, County of Los Angeles
Thomas Ewald, Vice-Chair, Deputy Fire Chief, County of Los Angeles Fire Dept.
Mark Glatt, Chief, Los Angeles County Sheriff's Dept.
Brian Solinsky, Deputy Chief, City of South Pasadena Police Dept.

Officers Present:

Scott Edson, LA-RICS Executive Director
Priscilla Dalrymple, LA-RICS Board Secretary

Absent:

Chris Donovan, Fire Chief, City of El Segundo Fire Dept.



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

I. CALL TO ORDER

Alternate Chair, Mark Glatt, called the Special Board meeting to order at 9:02 a.m.

II. ANNOUNCE QUORUM – Roll Call

Alternate Chair Glatt asked for a roll call and acknowledged a quorum was present.

III. APPROVAL OF MINUTES (A)

A. December 3, 2020 – Minutes

Alternate Chair Glatt asked if there were any questions or comments from the Board.

Board Member Mark Alexander stated the title on the minutes' state Special Meeting Minutes instead of Regular Meeting Minutes. Executive Assistant Wendy Stallworth-Tait stated it was a Regular Meeting, and recommended the Board amend the minutes to reflect Regular Meeting Minutes instead of Special Meeting Minutes. County Counsel Truc Moore also stated the minutes will be updated to reflect the Regular Meeting Minutes and the Board can approve this by a motion.

Board Member Mark Alexander motioned first, seconded by Alternate Board Member John Geiger.

Ayes 8: Alexander, Chidester, Curley, Fronterotta, Geiger, Glatt, Nunley and Solinsky.

MOTION APPROVED.

IV. PUBLIC COMMENTS – NONE

V. CONSENT CALENDAR – NONE

VI. REPORTS (B-E)

B. Director's Report – Scott Edson

Executive Director Scott Edson greeted the Chair and Board members and meeting attendees, he wished everyone a great and safe 2021!



LTE 2 Update

In regards to the Long Term Evaluation (LTE) 2 update, Executive Director Edson stated the sites funded by AT&T, the team is still pending Federal Grantor approval of the Asset Transfer Agreement and transferring the LTE Round 2 assets to AT&T for inclusion in the National system – the team is nearing the end of the final LTE Round 2 sites with of course, one minor hurdle. POM 2 was scheduled to start construction; however, due to COVID-19, the contractor just informed the team they are having trouble securing license renewal, given this news the team is working to explore going to the second place bidder while waiting for license renewal issuance. On a good note, the Montebello Police Department (MNTBPD) site is now closed out, which is great news and a critical site to the region. Project Director Chris Odenthal provided a summary update for the Board's review as Agenda Item F and for this meeting requested the Board simply receive and file this report. Any significant updates will be shared with the Board as they arise.

LMR Update

In regards to the Land Mobile Radio (LMR) update, Executive Director Edson stated relating to the frequency issues and T-Band, the team is happy to finally witness the repeal of the T-Band takeaway – and will continue to work closely with the County, tasked as the Spectrum Owner and manager of frequencies upon which the LMR system is being built. Next steps are pending T-Band applications for full use licenses.

Executive Director Edson took the opportunity to thank the County leaders including former Board Member Dean Gialamas and Alternate Board Member John Geiger whom continuously met, monitored and advocated for all LA-RICS' FCC licensing needs. Executive Director Edson requested the Board receive and file Agenda Item G in the interest of time, and the team will provide the Board with updates on the next steps and licensing of the pending applications as they are received.

As for the Coastal Sites, as reported to your Board over the last few meetings, the team is awaiting the appeal period on the two (2) Santa Monica mountain sites, and are happy to report receipt of the three (3) Catalina sites Coastal Development Permits in hand on December 17, 2020. Executive Director Edson stated this was a wonderful Christmas present. LA-RICS transmitted the same to Motorola (MSI) on the day the CDPs were received. With County permits issued for two (2) of the three (3) Catalina sites this week, the team is extremely eager and excited to see the build begin, which was scheduled for this week! With this brief update and while the team awaits the appeal period on the two (2) Santa Monica mountain sites, Director Edson requested the Board receive and file Agenda Item H, with updates on these sites to come as the team receives them.



Executive Director Edson stated in regards to Outreach, LA-RICS has provided a memo for your Board's information, and request to simply receive and file. At the last meeting Chief Glatt requested a presentation on the system and the agencies it is capable of serving and the team has postponed that presentation to the next regularly scheduled Board meeting, to allow more time for closed session today.

Executive Director Edson stated the LMR program build was moving well as previously mentioned, the team received three (3) county permits this week; two (2) Catalina Island sites (BJM and TWR) and Rancho Palos Verdes (RPVT). Executive Director Edson acknowledged and thanked the Department of Public Works (DPW) for their expedited review of permits for these very important sites and for their support to date. There are four (4) additional sites that are in with the permitting agency and pending permit issuance are LACF072, ESR, PMT (power permit only) and DPK. The team is now down to three (3) sites pending building permit submission to permitting agency. Those sites are BKK, SPH, TOP Relay. There is an additional site, which requires permit submission (SPN) but the team is currently exploring whether use of existing tower in the same polygon would allow for a more efficient and cost-effective build. Given the need to explore such options, before your Board is an item seeking delegated authority to procure services for A&E and construction contractors outside of the MSI contract. Exploring options at sites may prove to be more efficient and effective than proceeding via change orders under the existing MSI LMR contract. That item is before the Board as Agenda Item L. Any resultant contract awards would certainly be brought to your board for consideration of approval. This item simply seeks authority to proceed with a procurement vehicle only.

Additionally, Amendment No. 51 is before your Board; which will allow LA-RICS to secure a leased fiber link between FCCF and PLM cores in order to accelerate network optimization and provide secondary network connectivity at the sites. That item will be presented to you under Agenda Item M.

Finally, as reported to your Board, MSI refused to continue environmental monitoring work given they'd depleted their MMRP budget well ahead of completing the MMRP work at all sites in the LMR system and refused to enter into a fixed price budget for work at remaining LMR sites. After extensive negotiations to ensure competitive pricing, the team has prepared Agenda Item N, Amendment No. 29 to the Jacobs contract, which provides funding augmentation to include and implement the environmental mitigation monitoring and reporting plan for twenty-three (23) sites with remaining work requiring the MMRP be applied. At a high level, the MSI contract included a \$2.9M budget for the MMRP work, however, it was time and material and depleted this past December. Additionally, the MSI Project Director informed LA-RICS they have an additional \$2M in losses relating to this program in costs that were disallowed by the Authority. MSI completed work for twenty-one (21) sites under this program with some additional partial work at others. Jacobs will be assuming the



MMRP work at 23 sites, including some of the more complex and difficult sites in the coastal zone, the Catalina's and forest with longer build durations for a fraction of the cost. Executive Director Edson stated this amendment has been closely scrutinized and supports Jacobs taking on this additional work. Staff will share additional details to support this amendment under Agenda Item N.

Lastly, Executive Director Edson thanked the Chair and Board members and concluded his report.

Board Member Mark Alexander asked about the timing of the Closed Session and asked if the Board is going into to closed session at the end of the Agenda. Alternate Chair Glatt stated Closed Session will take place after Administrative Matters. Board Member Alexander stated the reason for asking is because the Board needs to go into Closes Session before one (1) of the Administrative Matters is discussed. Executive Director Edson stated there is no problem with Board Member Alexander's request to go into Closed Session after Discussion Items. Alternate Chair Glatt stated the Board will proceed in that manner.

There was no further discussion.

C. Project Manager's Report – Justin Delfino

LTE2 Current Status:

Program Manager Justin Delfino presented the status of LTE2 and stated sites 1-20 close-out materials including punch corrections and as-built information has been transmitted to FirstNet/AT&T; approximately 15 of the sites have been accepted by FirstNet/AT&T to date. The remaining sites to accept are USFS sites and UCLA.

LTE2 Sites 21 through 26

Program Manager Delfino provided an overview of sites 21 through 26 as stated below:

- MML2 – Base scope work completed.
- MNTBLPD – Base scope work completed.
- POLA1 – Base work to be completed next week COVID-19 impact (contractor/staff was infected with COVID-19) and due to this reason work will start next week. In queue for LADWP to energize.
- POLA2 - Power run scheduled for January install. Fenix Terminal approved, and work is starting tomorrow.

- POLB1 - Awaiting confirmation of executed SAA (pending negotiations).
- POM2 - Work planned to commence by end of January and is also COVID-19 impacted.

LMR PROGRAM CONSTRUCTION OVERVIEW

Program Manager Delfino provided an update on the construction overview and shared some recent successes on the LMR Program as stated below:

- Work completion for UASI 18 is on track for fourteen (14) site completions at critical locations in the network including the majority of USFS sites and other key sites such as TOP and RHT. In addition to new builds, MSI also completed ten (10) additional sites that required completion of work transferred from UASI 17. Greatest construction effort from MSI to date.
- BJM, TWR, GRM, MTL2 and RPVT all permitted in this period.
- Only eleven (11) sites remain to build; Thirty (30) sites have permanent power.
- Zero recordable injuries to date.

Open and Active Sites:

- Phase 2: GMT, JPK2, LPC, MDI, MML, PMT, PRG, RHT, RIH, BUR1, CPK (11) sites.

SAA

Program Manager Delfino stated the outstanding SAA's are Coastal (DPK) and finalization of ESR.

Current Focus:

Program Manager Delfino stated the schedule has been a primary focus between the LA-RICS and MSI Teams and provided highlights below:

- Schedule IMS resolution – Fragnet schedule was incorporated into IMS after a unanimous decision by MSI. The Authority approved the December 1, 2020, IMS on December 16, 2020.



- In a correspondence from MSI on December 28, 2020, and January 5, 2021, MSI made statements about dismay with IMS and “partial demobilization” of certain sites while continuing to work at others.
- Close out manual submissions to Authority.
- Grant spend coordination for MDI and MML.
- West Cell Configuration, RFQ No. 60.
- Assist MSI in power coordination at remaining sites.
- A 30-day look-ahead schedule planning meeting with MSI especially for sites requiring environmental monitors present.

Program Manager Delfino provided updates and shared site photos of what the Team has been working on as stated below:

LPC

This site is overlooking the San Gabriel Valley and the VIAMM finishes are applied to the gate. The shelter and tower are complete; this is essentially a completed site.

PMT

The tower mounts are all complete. This is the solar site in the middle of the forest, which is north of Azusa. Contractor is scheduled to be back at this site on January 11, 2021, and the work will continue to progress.

MML

This site has two tone paint on the tank, per the forest to allow for a small aircraft or anyone traveling overhead to not be distracted with a white colored tank. The team painted the top of the tank in order to comply with the forest requirement as well as the earth tone on the fencing.

GMT

Our tower is complete and colored to comply with the forest VIAMM requirements. This site requires SCE to approve the as-built location of the vaults placed by MSI. All work is currently on track to be completed for UASI 18 as reported by MSI.

JPK2

This tower is fully loaded with microwave and all of the RF antennas on it, which is overlooking San Dimas, La Verne, and the Claremont area.

This concludes the Project Manager’s Report.



There was no further discussion.

D. Joint Operations and Technical Committee Chairs Report – No Report

E. Finance Committee Chair Report – No Report

VII. DISCUSSION ITEMS (F-J)

F. PSBN Round 2 Implementation and Construction Update – Chris Odenthal

G. Frequency and Licensing Issues Impacting Land Mobile Radio Deployment – Chris Odenthal and Ted Pao

H. Update on Coastal Development Permit Process for Five Land Mobile Radio System Sites – Tanya Roth

I. Outreach Update – Wendy Stallworth-Tait and Sven Crongeyer

J. LMR System Capacity and Coverage Update

Alternate Chair Glatt made a recommendation for Discussion Items (F-J) be Received and Filed and asked if there were any questions or comments from the Board.

There were none.

Agenda Item XI - Closed Session Report was taken out of order at the request of Board Member Alexander.

The Board entered into Closed Session at 9:25 am.

1. CONFERENCE WITH LEGAL COUNSEL –Anticipated Litigation (subdivision (d) of Government Code Section 54956.9) (1 case)

The Board returned from Closed Session at 10:24 am and Counsel Moore took roll call and acknowledged a quorum was present. Counsel Moore stated the Brown Act does not require a report.

Alternate Vice-Chair Thomas Ewald took over for Alternate Chair Mark Glatt.

VIII. ADMINISTRATIVE MATTERS (K-N)

K. DELEGATED AUTHORITY TO THE EXECUTIVE DIRECTOR TO ACCEPT EQUIPMENT ON A GRATIS BASIS



LMR System Manager Steven Page presented Agenda Item K, and provided background, the City of Pasadena, from 2010 to 2020, operated on TV Channel 15 frequencies for their radio system, and upon merging with the City of Glendale's system, began operating on Channel 16 frequencies.

There is antenna combining equipment that was originally not grant-funded that has become obsolete to Pasadena as part of their migration and has been offered to LA-RICS on a gratis basis. The total value of the combiners is approximately \$15,000.

LMR System Manager Page went on to state it is the intent of LA-RICS to use this equipment as part of a system to test and evaluate equipment on the Land Mobile Radio (LMR) system as part of an equipment test lab in a controlled environment.

By executing the receipt, the Authority will accept the equipment but will not guarantee and will not imply any commitment to purchase or procure any equipment, goods, and/or services from Pasadena.

LMR System Manager Page stated there is no fiscal impact associated and recommended the Board take the following actions:

It is recommended that your Board delegate authority to the Executive Director to execute a receipt between the Authority and the Pasadena, in substantially similar form to the Enclosure, to allow the Authority to accept certain combiner equipment, on a gratis basis, for the purposes of testing and evaluating compatibility and functionality of the equipment on the LMR Early Deployment System.

Board Member Alexander stated just to confirm this is a permanent transfer. LMR System Manager Page stated correct. Alternate Vice-Chair Ewald asked for the estimated dollar amount of the equipment again. LMR System Manager Page stated approximately \$15,000.

Alternate Board Member John Geiger motioned first, seconded by Board Member Mark Alexander.

Ayes 6: Alexander, Chidester, Ewald, Fronterotta, Geiger, and Nunley

MOTION APPROVED.

L. AUTHORIZE THE EXECUTIVE DIRECTOR TO ISSUE PROCUREMENTS FOR ENGINEERING DESIGN SERVICES AND CONSTRUCTION SERVICES FOR THE LAND MOBILE RADIO SYSTEM

Contracts Manager Jeanette Arismendez presented Agenda Item L, and requested the Board authorize the Executive Director to enlist procurement services on an as-needed basis from the Department of Public Works (Public Works) to secure an architectural and engineering firm as well as construction contractors, via any procurement mechanism Public Works deems appropriate [e.g. Request for Proposal (RFP), a prequalification process, an Invitation for Bid (IFB), etc.] for a not-to-exceed amount of \$100,000.

Contracts Manager Arismendez explained that this work would be for procurement services with Public Works only and that any Agreements resulting from the procurement process performed by Public Works would be presented to the Board for consideration and approval.

Alternate Board Member John Geiger motioned first, seconded by Board Member Mark Alexander.

Ayes 6: Alexander, Chidester, Ewald, Fronterotta, Geiger, and Nunley

MOTION APPROVED.

M. APPROVE AMENDMENT NO. 51 TO AGREEMENT NO. LA-RICS 007 FOR LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM LAND MOBILE RADIO SYSTEM

Contracts Manager Arismendez presented Agenda Item M, which is Amendment No. 51 to the LMR Agreement with Motorola and recommend the Board take the following actions:

1. Make the following findings with respect to the LMR Change Order Modifications:
 - a. Find that (a) approval of Amendment No. 51 to contemplate certain Change Order Modifications at two (2) LMR System Sites, Los Angeles County Fire Command (FCCF) and Los Angeles County Sheriff's Department Palmdale Station (PLM) related to a leased fiber link between FCCF and PLM, is within the scope of the design, construction, implementation, operation and maintenance activities for the LMR System previously authorized at these two (2) sites, which your Board previously found statutorily exempt from review under the California Environmental Quality Act (CEQA) on November 13, 2014 and December 17, 2015 pursuant to Public Resources Code Section 21080.25, the exemption adopted specifically for the LA-RICS, and any leased circuit work that may occur outside of Site FCCF and Site PLM, if needed to provide network connectivity to the LMR System, categorically exempt under CEQA pursuant to



Guidelines Section 15301 (existing facilities), 15303 (new construction or conversion of small structures), and 15304 (minor alterations to land).

- b. Find that (a) approval of Amendment No. 51 to contemplate certain Change Order Modifications at one (1) LMR System Sites, Compton Court Building (CCB) related to a microwave installation modification, is within the scope of the design, construction, implementation, operation and maintenance activities for the LMR System previously authorized at this one (1) site, which your Board previously found statutorily exempt from review under CEQA on November 13, 2014, pursuant to Public Resources Code Section 21080.25, the exemption adopted specifically for the LA-RICS Project, and any leased circuit work that may occur outside of Site CCB, if needed to provide network connectivity to the LMR System, categorically exempt under CEQA pursuant to Guidelines Section 15301 (existing facilities), 15303 (new construction or conversion of small structures), and 15304 (minor alterations to land).
2. Approve Amendment No. 51 to Agreement No. LA-RICS 007 for a LMR System with Motorola, which revises the Agreement to incorporate certain LMR Change Order Modifications as further described in the board letter for a total cost increase in the amount of \$23,977.
3. Authorize an increase to the Maximum Contract Sum in the amount of \$23,977, when taking the recommended actions into consideration from \$290,580,360 to \$290,604,337.
4. Allow for the issuance of one of more Notices to Proceed for the Work contemplated in Amendment No. 51.
5. Delegate authority to the Executive Director to execute Amendment No. 51, in substantially similar form, to the Amendment enclosed with the board letter.

Alternate Board Member John Geiger motioned first, seconded by Board Member Mark Alexander.

Ayes 6: Alexander, Chidester, Ewald, Fronterotta, Geiger, and Nunley

MOTION APPROVED.

N. AMENDMENT NO. 29 TO THE PROJECT AND CONSTRUCTION MANAGEMENT SERVICES AGREEMENT

Administrative Deputy Susy Orellana-Curtiss presented Agenda Item N, and stated this is Amendment No.29 to the Jacobs Project Contract for an increase for environmental



professional services work, which will result in a contract increase of \$2,524,771 and recommend your Board take the following actions:

1. Find that the proposed Amendment No. 29 with Jacobs for environmental professional services is not subject to the California Environmental Quality Act (CEQA) because it is not defined as a project under CEQA and does not have the potential for causing a significant effect on the environment.
2. Approve Amendment No. 29, substantially similar in form to the (Enclosure), which contemplates revising the Agreement with Jacobs to increase environmental work as follows:
 - a. Include all work necessary to implement environmental Mitigation Monitoring and Reporting Plan (MMRP) work for the Land Mobile Radio (LMR) program for a cost increase in the amount of \$2,362,855.
 - b. Include certain Visual Impact Assessment Quality Mitigation Measure (VIAMM) services in connection with the MMRP for a cost increase in the amount of \$97,914.
 - c. Include certain Soils Management services to be provided on an as-needed bases for a cost increase in the amount of \$64,002.
3. Approve an increase to the Maximum Contract Sum by \$2,524,771 from \$64,806,363 to \$67,331,134 when taking revisions contemplated in Amendment No. 29 into consideration.
4. Delegate authority to the Executive Director to execute Amendment No. 29, in substantially similar form, to the enclosed Amendment (Enclosure).
5. Allow for the issuance of one or more Notices to Proceed for the Work contemplated in Amendment No. 29.

Board Member Alexander asked what is the source of funding for the contract increase of \$2.5 million. Administrative Deputy Orellana-Curtiss stated the source of funding is 100% from UASI grant. Board Member Alexander asked if this funding is being re-allocated from another project/contract. Administrative Deputy Orellana-Curtiss stated it is funding that has been identified for the completion of MMRP work and instead of proceeding with an amendment with MSI, instead LA-RICS would be adding the work to the Jacobs contract. Board Member Alexander stated does this require an amendment to the MSI contract to reduce or is it not committed. Administrative Deputy Orellana-Curtiss stated it does not require amendment to the existing MSI contract because they have exhausted their allocated MMRP funds as of the end of December



2020. This work is properly captured in their contract and does not require an amendment.

Alternate Board Member John Geiger motioned first, seconded by Board Member Cathy Chidester.

Ayes 6: Alexander, Chidester, Ewald, Fronterotta, Geiger, and Nunley

MOTION APPROVED.

IX. MISCELLANEOUS – NONE

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

XI. CLOSED SESSION REPORT

Alternate Vice-Chair Ewald stated Closed Session Report has been addressed.

XII. ADJOURNMENT AND NEXT MEETING:

The Board meeting adjourned at 10:39 a.m., and the next meeting will be held on Thursday, February 4, 2021, at 9:00 a.m., via Teleconference/Microsoft Teams Meeting.

Alternate Vice-Chair Ewald wished everyone a safe and Happy New Year.

Executive Summary

February 4, 2021

LTE Update

- PSBN Round 2 – The month of January 2021 has been focused on site acceptance of the remaining five (5) sites for the first group of twenty (20) builds. For sites 1-20, there were no recordable injuries, labor compliance violations, nor environmental findings on the build-out. Regarding sites 21-26, LA-RICS has nearly completed both POLA1 and POLA2 installations, the progress at the sites in December was impacted by manpower shortage due to COVID-19. POLA1 requires action from LADWP connecting utility power in order to complete the site. POLA2 also requires a final inspection from the City of Los Angeles to allow the utility power to be initiated. MML2 is complete. POM2 is scheduled to start construction on February 1, 2021. MNTBLPD is completed with its base scope work, however there is an outstanding change in scope to resolve decommissioning two (2) existing Montebello antennae. This work along with the roll-up door are planned to be resolved by mid-February 2021. Lastly, POLB1 cannot yet start construction since the negotiation between the Port of Long Beach and AT&T FirstNet is not yet complete. LA-RICS and its contractors are poised to bolster FirstNet/AT&T coverage in the region with the delivery of twenty-six (26) public safety grade LTE sites in 2021.

LMR Update

- Building Permit(s) Received – 52 Sites to date. There are only six (6) building permits remaining. Total site count remains at fifty-eight (58) sites.
- The May 12, 2020, Integrated Master Schedule (IMS) had indicated that all Phase 2 work would be completed in 2021, and all Phase 4 work would be completed by March 28, 2022; however, in the month of June, MSI made unauthorized changes to the IMS pushing the schedule into 2023. The Authority had spent the remainder of June, July, and August of 2020 focusing on the origin of the unauthorized extension. In October 2020, MSI indicated that they have added time to the Program due to underestimating work durations previously. In addition, there were Force Major Delays which occurred in September 2020 (Bobcat Fire) that caused delay as well as impacts to work forces caused by COVID-19. The MSI and LA-RICS Teams met continually to work on assuring correct logic ties were in place and that all forecasted dates were appropriate as well as accounting for the items causing delays. The teams agreed that the December 1, 2020, data date schedule is acceptable, which yielded system acceptance on August 31, 2022. Subsequent to reaching schedule consensus, MSI transmitted a memo on December 28, 2020, indicating that it was no longer comfortable with the accepted schedule and has not submitted a schedule update for January. In addition, MSI expressed they would temporarily halt construction progress at selected UASI 19 sites in order to control costs. Since that time several formal communications have been sent between the Authority and MSI to resolve a default finding. At the time of this report, the issue has not yet been resolved, although MSI is continuing to complete the UASI 18 Phase 2 and Phase 4 work.

- Sites Eligible to Construct: (Includes Completed Sites, Sites under Construction and/or Equipment Installs and Locations).

1. APC – Airport Courthouse
2. BMT – Bald Mountain
3. CCB – Compton Court
4. CCT – Foltz Court
5. CLM – Claremont
6. FCCF – Fire Command and Control
7. HPK – Hauser Peak
8. LAN – Lancaster Sherriff Station
9. LADWP243 – Junction of I-5 and CA-14
10. LASDTEM – Temple City Sheriff
11. LA-RICS HQ, - Monterey Park
12. MLM – Mira Loma Detention Center
13. MMC – Palmdale – Sierra Pelona Mountain Way
14. MVS – Monte Vista Star Center
15. ONK – Oat Nike
16. PHN – Puente Hills
17. PLM – Palmdale Sheriff
18. SDW – San Dimas Water Tank
19. TPK – Tejon peak
20. VPK – Verdugo Peak – Glendale
21. SGH – Signal Hill
22. MIR – Mirador
23. BKK - West Covina
24. OAT – Nike
25. AGH – Agoura Hills
26. INDWT – Industry Water Tank
27. BHS – Baldwin Hills
28. RIH – Rio Hondo
29. CRN – Cerro Negro
30. POM – Pomona Courthouse
31. DPW038 – Water Works Substation 038
32. UCLA – Factor Building
33. Del Valle Training Center
34. RHT – Rolling Hills Transmit
35. GMT – Grass Mountain
36. JPK2 – Johnstone Peak 2
37. PRG – Portal Ridge
38. WMP – Whitaker Middle Peak
39. WTR – Whitaker Ridge
40. LPC – Loop Canyon
41. MML – Magic Mountain Link
42. PMT – Pine Mountain
43. MDI – Mount Disappointment
44. FRP – Frost Peak
45. TOP – Topanga Peak
46. UNIV – Universal
47. MTL2 – Mount Lukens
48. GRM – Green Mountain
49. BJM – Black Jack Mountain
50. TWR – Tower Peak
51. RPVT – Ranchos Palos Verdes Golf Course
52. BUR1 – Burnt Peak

LA-RICS GRANT STATUS					
Grant	Award	Costs Incurred/NTP Issued	Invoiced / Paid	Remaining Balance	Performance Period
UASI 12	\$18,263,579	\$18,263,579	\$18,263,579	\$-	3/31/17
UASI 13	\$13,744,067	\$13,744,067	\$13,744,067	\$-	3/31/18
UASI 14	\$4,997,544	\$4,997,544	\$4,997,544	\$-	7/31/17
UASI 16	\$5,240,455	\$5,240,455	\$5,240,455	\$-	5/31/19
UASI 17	\$34,763,750	\$34,763,750	\$34,763,750	\$-	5/31/20
UASI 18	\$35,000,030	\$35,000,030	\$ 20,045,314	\$-	5/31/21
UASI 19	\$35,000,000	\$30,177,197	\$ 472,263	\$4,822,803	5/31/22
BTOP	\$149,608,227	\$149,608,227	\$149,608,227	\$ 0*	9/30/20

*\$0 Balance remaining to NTP on activities approved through Special Award Condition Amendment No. 30.

Los Angeles Regional Interoperable Communications System

PROJECT DESCRIPTION

Events of September 11, 2001 highlighted the need for first responders to be able to communicate with each other. Emergency communications primarily address local jurisdictional needs and most agencies utilize separate radio towers, equipment, and radio frequencies. LA-RICS is designed to address each of these concerns.

Currently, there is duplication of systems which leads to increased costs while continuing to inhibit first responders' ability 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 provide innovative solutions for the public safety community by removing barriers to interoperable voice and data communications and allow individuals and agencies to focus on accomplishing their mission with the tools necessary to provide excellent service to their communities. To accomplish this vision, the program is implementing 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.

Design, construction, and deployment of a County-wide Land Mobile Radio (LMR) voice network utilizes 59 sites. Additionally, the Authority is analyzing twenty-six (26) sites for the purpose of augmenting the FirstNet deployment in the region. All sites in both the LMR and LTE augmentation will comply with CEQA and NEPA standards.

Project and Construction Management Services will provide network, infrastructure, project, and advisory services across four of the five program phases (Phase 5 – Maintenance is excluded) 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., David Evans
& Associates, Metrocell, Inc., Diversified
Communications, Inc, Motive Energy, Inc.
and Jitney, Inc.



Monthly Report No. 105

For January 2021

Submitted January 29, 2021

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AGENDA ITEM C

LTE UPDATES

- No new activity

Operations/Governance

- The LA-RICS Operations team is holding meetings three (3) times a week to focus on the following:
 1. Manage network migration from LA-RICS PSBN to AT&T FirstNet
 2. Ensure internal LA-RICS operational aspects are in place
 3. Develop and Implement Policies

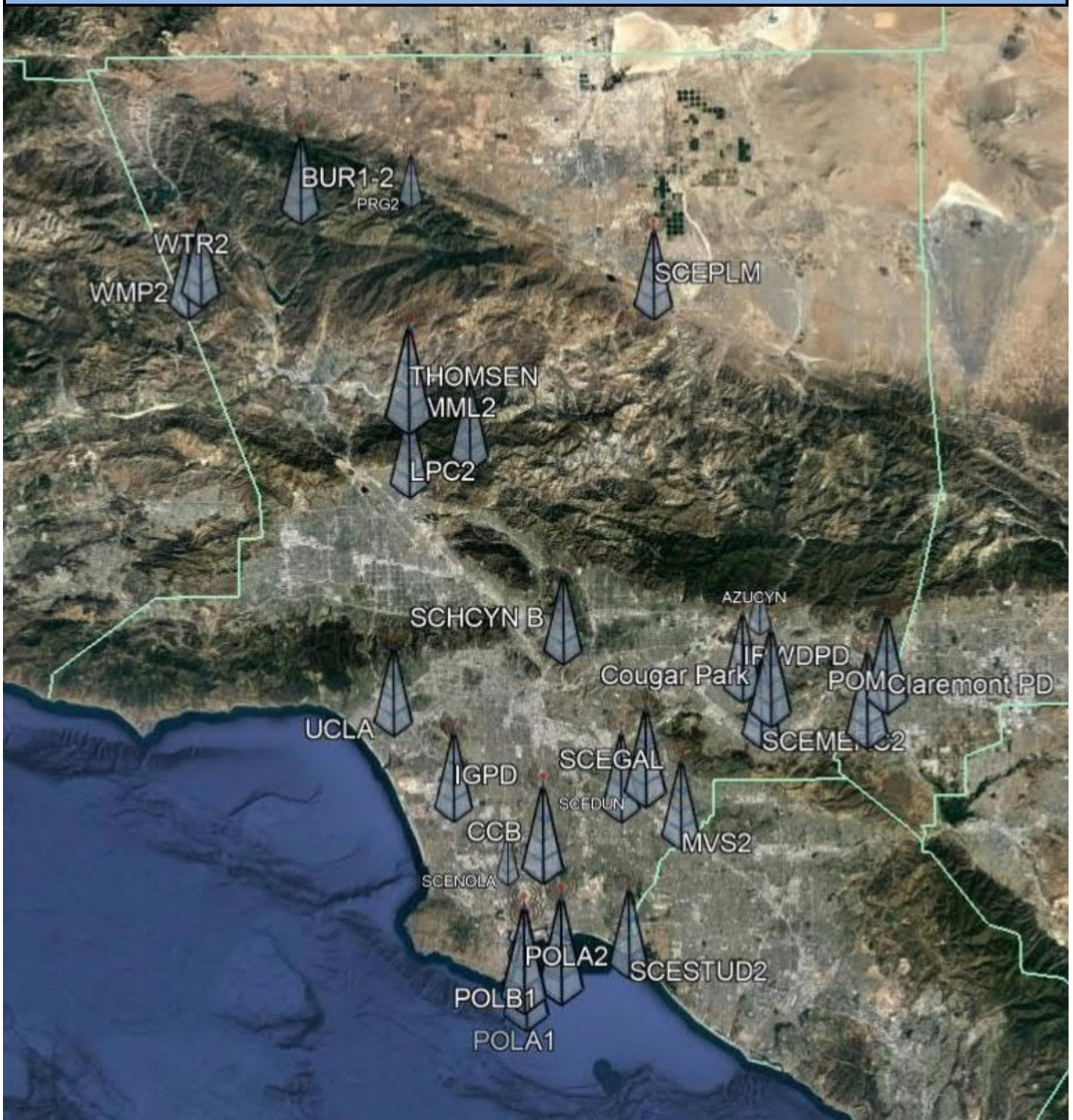
Special Events

- No new activity.

LTE Round 2 Updates

- Twenty (20) sites are substantially completed. The LA-RICS Authority successfully closed out its BTOP grant with NTIA.
 - There are no safety issues to report on in this period.
 - FirstNet AT&T is continuing to review and accept sites. Fifteen (15) of the initial twenty (20) sites have been accepted. FirstNet AT&T is in progress of accepting the five (5) remaining sites. FirstNet AT&T indicated that its reviewers were mostly unavailable in December.. LA-RICS anticipates that FirstNet AT&T will have the remaining five (5) sites completely reviewed and accepted by the end of January 2021.
- Work on sites twenty-one (21) through twenty-six (26) is continuing under a revised agreement with FirstNet/ AT&T.
 - Construction Status:
 - Substantially Completed Site(s): MML2 and MTBLPD
 - January Completion Site(s): POLA1 and POLA2.
 - Construction Start February 1st: POM2
 - The City of Long Beach and FirstNet AT&T continue negotiations to finalize the Site Access Agreement for the POLB1 Site. Therefore, LA-RICS has not yet started construction on the POLB1 site.

LTE2 SITE MAP



LMR UPDATES

General Comment:

- Monthly Report #89 issued by MSI contains numerous inaccurate or false statements and/or misleading statements regarding acceptance of the current master schedule, notices of constructive delays, lease agreements, zoning approvals, power, and agency cutovers. Further, MSI refuses to accept any edits to their report to correct these issues. Due to these significant problems, we will not be publishing the MSI report.

Environmental Update

- Jacobs continued full-time MMRP monitoring effort terminated by Motorola without notice in December 2020. Motorola exhibited difficulty scheduling monitors, failing to provide accurate schedules for monitoring support. This resulted in Motorola crews either showing up without a required monitor scheduled or Motorola crews not showing up when scheduled (and a monitor was supplied) this scenario occurred six (6) times in a single week.
- Have accomplished Worker Environmental Awareness Program (WEAP) training for 1,448 persons as of January 7, 2021.
- Continued to support development of and to review MSI's coastal development permitting documents and pre-con plans and checklists for sites going into construction.
- Three new NOE's were filed for actions taken during the January Board meeting.

Permitting Support

- DPW staff have been consistently engaged to provide just-in-time support for plan check activities, with a weekly dashboard being communicated between the Authority and DPW management. This system was stood up by the Authority to provide as much support as possible to a Motorola Team that has consistently struggled over the course of the Program with its Phase 1. Design responsibilities. The cooperation from LA County DPW plan reviewers particularly, has proven to reduce the drawing review cycle time overall between MSI and permitting authorities.
- The Decision Memo for the 13 LMR sites on the ANF was issued by the Angeles National Forest (ANF) on October 31st, 2019. All 12 of the sites in the ANF subject to an LA-RICS Special Use Permit (SUP) have now been permitted by the USFS. Access to FRP is now closed for Mountain High's winter ski season effective November 7.

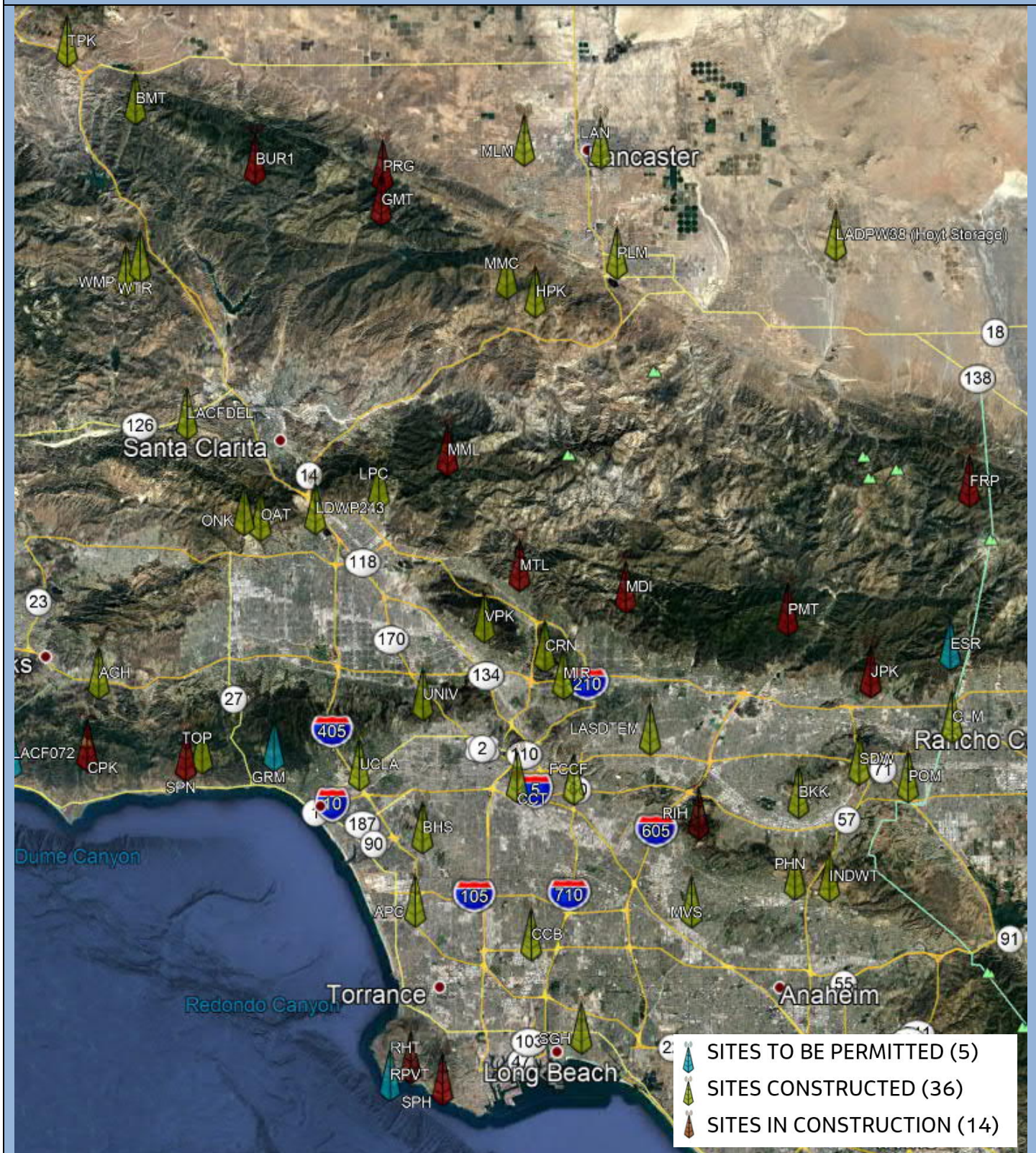
Site/Civil

- On December 28th, 2020 Motorola made a unilateral decision (in violation of the Agreement) to refuse to perform work at twelve sites (12). The Motorola Project Director described the action as a "partial demobilization" although none of the twelve (12) sites had started construction, which confused what Motorola was attempting to communicate. After several meetings and additional correspondence Motorola stated that they would continue to complete all sites which they had already begun construction on and planned to complete all of the work slated for completion under the UASI 18 spending plan. Motorola indicated that the 12/1/2020, which had a system acceptance date of 8/31/2022, was no longer attainable without detailing an explanation of the "impossibility." Lastly, Motorola indicated that they would continue to complete the twelve (12) sites identified if their attempt for claim settlement was successful. In most recent conversation MSI has indicated that they will get back to work, the Authority did transmit a notice of default to Motorola and allowed twenty (20) days to cure. The end of the cure period coincides with the date of this report, although the Project Team has not received a formal correspondence from MSI that they have resolved their issues.
- The LMR program continues to make progress in Phases 1 through 4a, despite on-going COVID-19 impacts. The work associated with Ph.2 and Ph.4a is primarily focused on those sites which are planned to be completed under UASI 18's spending plan. The Authority has met with MSI several times during the open grant period specifically to question MSI about its plans to complete the work and to discuss any obstacles the contractor is facing that may need assistance from the Authority. Motorola has indicated that it is most concerned about its ability to complete twenty (20) close-out manuals by March 1st. Currently, there is still an opportunity to do so, and Motorola has appointed a new close-out lead that appears to be an improvement over previous manager. In addition, MSI has flagged CPK, MML, and MDI as presenting challenges particularly with establishing normal utility power. The Teams discussed methods for fast tracking work and will continue to meet over the month of February to ensure that best practices are implemented, and the work is completed.
- There have been several exchanges between MSI and LA-RICS in this period to address constructive change notices, specifically regarding Method B lump sum as written in base contract paragraph 2.3.10.1(c). In this period MSI brought forth a dispute over what mark-up percentages they were entitled to receive. After consulting with legal counsel over the interpretation of the language MSI and the Authority came to an agreement over how mark-ups would be handled when processing a change order using Method B. The Team also met with MSI to discuss the TOP vs. Relay COR and reached a consensus on what items associated with the microwave only site would be additive and which scope items already performed were done under the base agreement budget allocated for the site. The Authority is still very much concerned with contractor staffing and supervision, particularly in Ph.2 and Ph. 4 work. In addition, there is concern that the distribution of Ph.2 work is not being spread over a large enough pool of contractors to perform the work since Authority field observers have noted that 3rd tier contractors seemed stretched thin and are undermanned trying to service the multiple sites that each is assigned. Motorola currently has seven (7) active sites for Ph.2 scope, they are: BUR1, MDI, MML, RIH, WMP, WTR and CPK. Motorola currently has four (4) Ph. 4 sites active; they are: GMT, RIH, WTR and WMP.
- There have been no environmental, nor USFS findings reported to date. There have been zero recordable safety incidents to date. The Integrated Master Schedule (IMS) dated December 1, 2020 has been accepted and shows a new Program Completion Date of 8/31/2022. As previously reported, on December 28th 2020 MSI sent the Authority a formal correspondence to explain its dissatisfaction with the 12/1/2020 IMS and instead suggested that a more 'realistic' schedule be put forth since a system acceptance date in August of 2022 seemed 'impossible' according to MSI management. After several meetings and a finding of default, MSI determined that it would be able to complete the program after all. On 1/28/2021 MSI Director Art Vanags called a meeting with the Authority to suggest a means of completing the LMR Program in August of 2022 by altering the system testing scope to save time in the schedule without degrading the quality and stability of the system. The Authority is currently reviewing the details that were discussed in the meeting and with MSI technical staff to make a final determination if in fact the proposal from MSI is the best course of action, and if so the contract will be amended to reduce the scope reconcile contract value and the IMS will at that point be mutually agreed by both MSI and the Authority. A decision by the Authority is planned for 1/29/2021.
- As of 1/28/2021 there are fifty-six (56) executed SAA's. In this period DPK is routing for execution and is expected to be final executed on 1/29/2021. ESR has proven to be the lone outstanding SAA, due to the injection of new comments from the existing Forest user that has in concept agreed to lease the existing site infrastructure to the Authority. The point of negotiation at this point pertains to the owners desire to potentially install additional equipment on the existing lattice tower in the future and wants assurance that the tower will be able to accommodate their future plans.. As an overarching broad point it is worth noting that lease agreements for access have been secured in advance of, or by the time needed for MSI to access the sites for construction in all instances.

AGENDA ITEM C

- Fifty-seven (57) building permit applications have been made to date (AGH, APC, BHS, BJM, BKK, BMT, BUR1, CCB, CCT, CITYWLK, CLM, CPK, CRN, DPK, DPW38, ESR, FCCF, FRP, GMT, GRM, HPK, INDWT, JPK2, LACF072, LACFDEL, LAN, LARICSHQ, LASDTEM, LDWP243, LPC, MDI, MLM, MMC, MML, MIR, MTL2, MVS, OAT, ONK, PHN, PLM, PMT, POM, PRG, RIH, RHT, RPVT, SDW, SGH, TOPex, TPK, TWR, UCLA, UNIV, VPK, WMP, WTR) and fifty five (55) of the sixty (60) sites have permits issued to date. MSI has elected to split permits at several project sites in the program for various reasons. An example of splitting the Ph. 2 scope into multiple permits is at RHT, where there is a “civil work” building permit issued, but the antenna support structure scope is an entirely separate permit, and the electrical distribution scope is also a separate permit. The three sites remaining to enter the Building Permit process are SPH, SPN, and RELAY and are all expected to enter the permit process before the end of the January 2021. LA-RICS and Motorola anticipate that the next site to receive permits will be DPK, and PMT Solar.
- In the month of January 2021, Motorola and the Authority acknowledge that thirty (30) sites have normal power on, twelve (12) sites have not yet been attempted and sixteen (16) are under construction, or are substantially completed, but without power currently. Of the sixteen (16) sites, nine (9) have been inspected and meter released and are in the Southern California Edison queue for meter installation and the remaining seven (7) have not yet been inspected to trigger a meter release. Despite having many of the sites energized today, Motorola has not yet optimized all of the sites where normal power is on. MSI could have been even farther along in the Program and tracking better against the IMS regarding the ‘power on’ schedule activity if the Ph.2 contractor had they employed a common construction practice; to sequence work such that underground utilities are installed first allowing the contractor to obtain “green tag” as one of the primary first objectives early in the program. Instead, Motorola and its Ph.2 contractor PNS have continued to struggle to timely achieve electrical meter sets. To compound this problem, Southern California Edison, (SCE), who is the utility provider for most of the sites, has demonstrated difficulty in successfully and timely tracking “meter release” forms once inspections are passed and the documents sent to SCE office. This issue has caused delay in activating the electrical utility at several sites once the inspections are passed that would have otherwise allowed for power on.
- Frequency usage and narrow-banding remain focal items for the LMR Program and has been tracked as making progress throughout the month of January. Los Angeles County Sheriff and ISD work to complete narrow-banding. MSI and the Authority meet regularly to discuss the progress. In November 2020 the Teams were able to mutually agree to defer testing of certain sites, LACF072, SPN, and TOP, which are all the subject of additional reviews by the California Coastal Commission before the sites can be constructed. It is worth noting that a portion of the TOP site was exempted by Los Angeles County Department of Regional Planning since the new monopole proposed would replace an old existing monopole that was no longer in use, in addition the proposed installation met all other requirements for exemption. The RF transmission equipment for the site and the shelter to house the radios was determined to require a coastal development plan and was not exempted from all of the reviews that coastal development plans are subject to. MSI is planning to submit the final version of the site design and the application to the Department of Regional planning in February 2021 for this site. This work sequencing was captured in the December 1st data date Integrated Master Schedule accepted by the Authority. In addition, the Authority and Motorola learned on December 21st that the T-band repeal legislation was passed by Congress and signed by the President on December 27th. Outreach to Signal Hill PD and Covina PD has been conducted based on discussions at the JPA Board meeting in August 2020, with over half of Signal Hill PD's vehicles being reprogrammed to operate on LA-RICS. Potential new requirements for Covina are being vetted to ensure seamless operation on LA-RICS LMR System. System interference on Ch. 16 is still being investigated by the Sheriff's Department and ISD along with the technical liaisons from LA-RICS. The coordination between LASD and LA-RICS is critical to ensure that frequencies are available for testing and operating the Analog Conventional System (ACVRS) particularly.
- Regarding schedule, MSI identified in Monthly Report No. 85 that the cut-over durations have been an area of focus in the schedule. The Authority and MSI have worked to come to an agreement on the cutover duration in the new master schedule, and the December 1, 2020 IMS is the new approved schedule by the Authority. In January MSI submitted an update with a 1/12/2021 data date that had a program system acceptance date of December 28th, 2022. The schedule is currently under review, while in tandem the Authority is reviewing a “fragnet” schedule that MSI transmitted on 1/28/2021, which shows the scope reductions to Ph.4b testing and a system acceptance date in August of 2022.
- The LMR Site Map shows the status of sites as of January 2021 with the four sites listed above still in blue as they have not actually broken ground yet.

LMR SITE MAP



AGENDA ITEM C



**LOS ANGELES REGIONAL INTEROPERABLE
COMMUNICATIONS SYSTEM AUTHORITY**

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<http://www.la-rics.org>

SCOTT EDSON
EXECUTIVE DIRECTOR

February 4, 2021

To: LA-RICS Authority Board of Directors

From: Scott Edson
Executive Director

A handwritten signature in blue ink, appearing to read 'Scott Edson', is placed next to the printed name and title.

PSBN ROUND 2 IMPLEMENTATION AND CONSTRUCTION UPDATE

The purpose of this discussion item is to provide an update on the Public Safety Broadband Network (PSBN) Round 2 deployment.

CO:TP:pdd

Attachment

LA-RICS PSBN SITE DEPLOYMENT

Week of 01/25/2021

Site ID	Type	GC	Power	City Planning	MISC Permit HDP /CP	Building Permit Rec'd	SAA Exec	Site Construction Start	Tower Delivered	Tower Construction Complete	Lines & Antennas Complete	Equipment Installation Complete	Site Construction Finish	Close Out	Comments
MML2	Colo	MSI	Complete	NA	NA	5/21/2020	Complete	7/31/2020	NA	11/20/2020	11/27/2020	11/30/2020	11/30/2020	2/5/2021	Substantially Complete. Ground Ring not complete as it is tied to LMR. Awaiting MSI Forecast.
MNTBLPD	Pole	Diversifie	Complete	NA	NA	9/11/2020	Complete	9/28/2020	8/21/2020	10/16/2020	11/27/2020	11/30/2020	11/30/2020	1/30/2021	Substantially Complete. GC to complete Roll Up Door Installation and MW removal on existing tower. No Tower Decom or relocation of equipment is necessary.
POLA1	Best	Jitney	Complete	7/30/2020	CP = Approved HEP = Approved	7/31/2020	Complete	8/10/2020	8/29/2020	8/29/2020	1/29/2021	10/6/2020	1/29/2021	2/19/2021	LADWP, Power install May 2021.
POLA2	Best	Jitney	Fenix	7/30/2020	CP = Approved HEP = Approved	7/31/2020	Complete	8/10/2020	8/29/2020	8/29/2020	10/6/2020	10/6/2020	1/29/2021	2/19/2021	Site is Substanially Complete. Power Conduit and additional AT&T Ffiber Conduit installation Run thru Fenix Terminal access road completed 1/12/2021.Power Conductors installation scheduled 1/18/2021.
POLB1	Pole	Motive	Submeter - Design	8/20/2020	Complete	9/18/2020	Pending - See Comments	Pending - See Comments	Pending - See Comments	Pending - See Comments	Pending - See Comments	Pending - See Comments	Pending - See Comments	Pending - See Comments	LA-RICS assisting with outreach regarding \$10k monthly rent figure. CX awaiting AT&T Lease negotiation and approval to move forward.
POM2	Roof	Motive	Complete	NA	NA	12/23/2020	Complete	2/1/2021	NA	NA	3/15/2021	3/22/2021	3/29/2021	4/19/2021	JCC Cancelled Crane work on 1/23/20201, rescheduled CX Start 2/1/2021.

Legend	
	Completed
	Forecasted - Schedule
	Delayed Timeline

Tower Type	Qty
Colo	1
Pine	4
Roof	1



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SCOTT EDSON
EXECUTIVE DIRECTOR

February 4, 2021

To: LA-RICS Authority Board of Directors

From: Scott Edson
Executive Director

**FREQUENCY AND LICENSING ISSUES IMPACTING LAND MOBILE
RADIO DEPLOYMENT**

The purpose of this discussion item is to update your Board on the frequency interference as well as frequency licensing issues impacting the Land Mobile Radio System deployment.

CO:TP:pdd

AGENDA ITEM G



LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

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SCOTT EDSON
EXECUTIVE DIRECTOR

February 4, 2021

To: LA-RICS Authority Board of Directors

From: Scott Edson
Executive Director

UPDATE ON COASTAL DEVELOPMENT PERMIT PROCESS FOR FIVE LAND MOBILE RADIO SYSTEM SITES

The purpose of this discussion item is to provide an update on the five (5) Land Mobile Radio (LMR) sites in process for securing Coastal Development Permits (CDP).

The two (2) sites subject to the Santa Monica Mountains Local Implementation Plan (LIP), LA County Fire Department 72 (LACoFD072) and Saddle Peak (SPN), were approved by the Regional Planning Commission (RPC) at its meeting of September 16, 2020. Non-applicant appeals were received by the Board of Supervisor's (BOS) Executive Office on the appeal period end date of September 29, 2020.

The Board of Supervisors upheld RPC's approval of sites LACoFD072 and SPN at its public hearing on November 24, 2020. Upon final approval from the BOS, which is now expected in February 2021 and clearance from the California Coastal Commission, the Coastal Development Permits will be processed.

The three (3) sites subject to the Santa Catalina Island LIP, Black Jack Mountain (BJM), Dakin Peak (DPK) and Tower Peak (TWR), were approved by the RPC at its meeting of September 23, 2020. Coastal Development Permits for all three sites were received on December 17, 2020.

TR:pdd



LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

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SCOTT EDSON
EXECUTIVE DIRECTOR

February 4, 2021

To: LA-RICS Authority Board of Directors

From: Scott Edson
Executive Director

OUTREACH UPDATE

The purpose of this discussion item is to update your Board on the status of outreach activities pertaining to the LA-RICS 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>Meetings with representatives from AT&T</i>	December 23; January 20 and 27, 2021
<i>Meeting with LA County Chief Executive Officer</i>	January 13, 2021
<i>IACP Communication & Technology Committee Meeting</i>	January 20, 2021
<i>NSA Government Affairs Committee Monthly Meeting</i>	January 21, 2021
<i>Emergency Communications Preparedness Center (ECPC) Advanced Technologies Working Group (ATWG) Monthly Meeting</i>	January 27, 2021
<i>Meeting with representatives from LA Department of Water and Power (DWP) Real Estate Division</i>	January 28, 2021

Various meetings continued in the months of December and January with AT&T to discuss ongoing Technical and Program Management concerns, Transfer Transition logistics, Checkpoint Calls, Round 2 Specifications and Site Leases, Assignment and Assumption Agreements and Amendments, Network Coverage Review and quarterly progress review.

Executive Director Edson met with Los Angeles County CEO to provide an update on LA-RICS.

AGENDA ITEM I

Executive Director Edson attended virtually the International Association of Chiefs of Police (IACP) Communication, Technology Committee Meeting, the National Sheriff's Association (NSA) Government Affairs and the Emergency Communications Preparedness Center (ECPC) Advanced Technologies Working Group (ATWG) Monthly Meetings.

Lastly, Executive Director Edson and members of the LA-RICS Team met with representatives from the Los Angeles DWP Real Estate Division to discuss transfer of LTE Round 1 assets to FirstNet.

WST:pdd



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SCOTT EDSON
EXECUTIVE DIRECTOR

February 4, 2021

To: LA-RICS Authority Board of Directors

From: Scott Edson
Executive Director

LMR SYSTEM CAPACITY AND COVERAGE UPDATE

The purpose of this discussion item is to provide your Board with an update on the LMR System capacity and coverage.

WST:pdd



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SCOTT EDSON
EXECUTIVE DIRECTOR

February 4, 2021

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

Dear Directors:

APPROVE AMENDMENT NO. 53 TO AGREEMENT NO. LA-RICS 007 FOR LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM LAND MOBILE RADIO SYSTEM

SUBJECT

Board approval is requested to authorize the Executive Director to execute Amendment No. 53 to Agreement No. LA-RICS 007 (Agreement) for the Land Mobile Radio (LMR) System to incorporate certain Change Order Modifications as further described in this Board Letter resulting in an increase to the Maximum Contract Sum in an amount not to exceed \$342,460.

RECOMMENDED ACTIONS

It is recommended that your Board:

1. Make the following findings with respect to the LMR Change Order Modifications:
 - a. Find that (a) approval of Amendment No. 53 to contemplate certain Change Order Modifications at ten (10) LMR System Sites, Burnt Peak 1 (BUR1), Frost Peak (FRP), Grass Mountain (GMT), Johnstone Peak 2 (JPK2), Loop Canyon (LPC), Magic Mountain Link (MML), Mount Lukens (MTL2), Pine Mountain (PMT), Whitaker Middle Peak (WMP) and Whitaker Ridge (WTR) related to tower finishing work, is within the scope of the Final Environmental Impact Report (EIR) prepared for the LA-RICS LMR System, which was previously certified by your Board under the California Environmental Quality Act (CEQA) on March 29, 2016; (b) that the environmental findings and Mitigation Monitoring Program previously adopted by your Board are applicable to the currently recommended actions; and (c) there are no changes to the project at these sites or to the circumstances under which the project is undertaken that require revisions to the previous EIR due to new significant effects or a substantial increase in the severity of previously identified significant effects.

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- b. Find that (a) approval of Amendment No. 53 to contemplate certain Change Order Modifications at one (1) LMR System Site, Mount Disappointment (MDI) related to utility power work and tower finishing work, is within the scope of the design, construction, implementation, operation and maintenance activities for the LMR System previously authorized at this one (1) site, which your Board previously found statutorily exempt from review under CEQA on February 5, 2015, pursuant to Public Resources Code Section 21080.25, the exemption adopted specifically for the LA-RICS, and find that any underground utility connection work that may occur outside of MDI site, if needed to provide network connectivity to the LMR System and/or to the nearest utility interconnection with adequate capacity for commercial power delivery to the site, is categorically exempt under CEQA pursuant to Guidelines section 15301 (existing facilities), 15303 (new construction or conversion of small structures), and 15304 (minor alterations to land).
2. Approve Amendment No. 53 (Enclosure) to Agreement No. LA-RICS 007 for a LMR System with Motorola Solutions, Inc. (Motorola), which revises the Agreement to incorporate certain LMR Change Order Modifications as further described in this Board Letter for a total cost increase in an amount not to exceed \$342,460.
3. Authorize an increase to the Maximum Contract Sum in an amount not to exceed \$342,460, when taking the recommended actions into consideration from \$290,604,493 to \$290,946,953.
4. Allow for the issuance of one or more Notices to Proceed for the Work contemplated in Amendment No. 53.
5. Delegate authority to the Executive Director to execute Amendment No. 53, in substantially similar form, to the enclosed Amendment (Enclosure).

BACKGROUND

As construction continues to progress on the LMR project, approval of certain Change Order Modifications is necessary to address changes made in the field and continue construction activities that were not originally contemplated in Motorola's scope. As a result, the recommended actions before your Board contemplate certain LMR Change Order Modifications deemed necessary as further described in this Board Letter.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTIONS

Approval of the recommended actions will authorize the Executive Director to execute Amendment No. 53 to incorporate certain Change Order Modifications, all actions resulting in an increase to the Maximum Contract Sum in an amount not to exceed \$342,460.

It is necessary to increase the maximum contract sum by incorporating a Change Order for the MDI site which accounts for the increased scope necessary to allow electrical utility conveyance at this site. This work occurs outside of the site compound and therefore was not captured in the base scope budget by the Contractor. The Contractor will perform this work in accordance with the final electrical utility design prepared by Southern California Edison (SCE). Amendment No. 53 also contemplates a Change Order to account for the increased scope needed to comply with the LA-RICS Special Use Permit and the United States Forest Service (USFS) Decision Memo. Specifically, this Change Order addresses the Visual Impact Assessment Mitigation Measures (VIAMM) requirements at eleven (11) sites (BUR1, FRP, GMT, JPK2, LPC, MDI, MML, MTL2, PMT, WMP and WTR) where certain infrastructure and equipment must be treated or finished in such a manner to match the approved color pallet for each site as determined by the USFS. These activities were not previously contemplated in the Agreement, but are necessary to complete construction activities at these sites.

The revisions contemplated in Amendment No. 53 have been reviewed by Authority staff, as well as its consultant (Jacobs) and Motorola, with both parties negotiating and agreeing to each change order, including associated costs.

Further, all recommended actions have been presented to the Change Control Board (CCB) which includes stakeholder participation and oversight from member agency representatives such as County of Los Angeles Sheriff's Department (Sheriff's Department) and County of Los Angeles Fire Department (Fire Department). Additionally, participation and oversight from Authority project team members representing technical (Internal Services Department), operations (Sheriff's Department and Fire Department), finance, grants, contracts, Jacobs, and Subject Matter Experts (brought in on an as-needed basis depending on the nature of the proposed revision) form part of the CCB. The CCB participants vetted the revisions presented to your Board for consideration and recommend approval.

FISCAL IMPACT/FINANCING

The activities contemplated in Amendment No. 53 will result in an increase to the Maximum Contract Sum in an amount not to exceed \$342,460 from \$290,604,493 to \$290,946,953 when taking the recommended actions into consideration. All work contemplated in Amendment No. 53 shall be fully reimbursed by the Urban Areas Security Initiative (UASI) grant.

ENVIRONMENTAL DOCUMENTATION

The environmental impacts of the project at ten (10) LMR System Sites (BUR1, FRP, GMT, JPK2, LPC, MML, MTL2, PMT, WMP, and WTR) contemplated in Amendment No. 53 to provide the material and implementation for the tower and other metallic finishes at the BUR1, FRP, GMT, JPK2, LPC, MML, MTL2, PMT, WMP and WTR sites to comply with the VIAMM in the U.S. Forest Service Decision Memo were evaluated in the EIR prepared by the LA-RICS Authority for the LMR System. On March 29, 2016, your Board certified the Final EIR for the LMR System in compliance with CEQA, made findings with

respect to the environmental impacts of the project, and adopted the Mitigation Monitoring Program (MMP) as a condition of approval for the project. The currently recommended actions related to these ten (10) LMR System Sites are within the scope of the impacts analyzed in the previously certified Final EIR and the Board's previous environmental findings, and adoption of the MMP are applicable to the current recommendations. There have been no changes to the impacts analyzed or to the circumstances under which the project is undertaken for these ten (10) LMR System Sites that would require revisions to the previous EIR due to new significant effects or a substantial increase in the severity of previously identified significant effects pursuant to Public Resources Code section 21166 or CEQA Guidelines sections 15162 and 15163. The previously adopted MMP will continue to apply.

As the CEQA lead agency, the Authority previously determined on February 5, 2015, that design, construction, implementation, operation, and maintenance of LMR System infrastructure at one (1) LMR System Site (MDI) are exempt from review under CEQA pursuant to Public Resources Code Section 21080.25, the statutory CEQA exemption adopted specifically for the LA-RICS, which exempts these activities as long as they meet certain criteria set forth in the exemption. The currently recommended actions related to this one (1) LMR System Site is within the scope of the previously authorized activities, and the determination that these activities are exempt from CEQA remains unchanged.

In connection with these approvals, the Authority also determined on February 5, 2015, that leased circuit work that may occur outside of this one (1) LMR System Site (MDI) as needed to provide connectivity to the LMR System is categorically exempt under CEQA pursuant to CEQA Guidelines section 15301 (existing facilities), 15303 (new construction or conversion of small structures), and 15304 (minor alterations to land). Similar to leased circuit work, work for electrical utility underground connection that is needed to deliver commercial power to the LMR System Site may consist of minor trenching within existing road right of way to place electrical conduit, small pull boxes, and conductors. To the extent electric utility work may need to occur outside of a LMR System site to allow commercial power delivery from the nearest existing available utility interconnection point with adequate capacity, such work is categorically exempt under CEQA pursuant to State CEQA Guidelines Sections 15301, 15303 and 15304 since the work would involve minor alterations of existing facilities, mechanical equipment, and location of new small facilities as well as minor alteration in the condition of land within the public right of way and is therefore within certain classes of projects that have been determined not to have a significant effect on the environment. There would be negligible to no expansion of use associated with this activity since the existing utility interconnection point has adequate capacity to accommodate the power delivery. Further, work for electric utility interconnection would not include the removal of healthy, mature scenic trees nor would it be located in a particularly sensitive environment, and there are no cumulative impacts, unusual circumstances, or other limiting factors that would make the categorical exemption inapplicable based on the project records.

Upon the Board's approval of the recommended actions for this Amendment No. 53, the Authority will file a Notice of Exemption (NOE) for the one (1) LMR System Site (MDI) with the County Clerk in accordance with Section 15062 of the State CEQA Guidelines

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and will file a Notice of Determination (NOD) for the ten (10) LMR System Sites (BUR1, FRP, GMT, JPK2, LPC, MML, MTL2, PMT, WMP, and WTR) with the County Clerk in accordance with Section 21152(a) of the California Public Resources Code and Section 15094 of the State CEQA Guidelines.

FACTS AND PROVISIONS/LEGAL REQUIREMENT

The Authority's counsel has reviewed the recommended actions and approved as to form.

CONCLUSION

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

Respectfully submitted,



SCOTT EDSON
EXECUTIVE DIRECTOR

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Enclosure

cc: Counsel to the Authority

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

RECITALS

This Amendment Number Fifty-Three (together with all exhibits, attachments, and schedules hereto, "Amendment No. 53") is entered into by and between the Los Angeles Regional Interoperable Communications System Authority ("Authority") and Motorola Solutions, Inc. ("Contractor"), effective as of February ____ 2021, based on the following recitals:

The 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; with no change to the Maximum Contract Sum.

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; with no change to the Maximum Contract Sum.

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 by \$1,285,230, 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 by \$1,169,047, 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 by \$20,240, 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 by \$68,146, 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 by \$5,177,051, 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 by \$3,671,006, 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 Number 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 Number 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 Number 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 Number 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 Number 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 Number 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 Number 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 Number 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 Number 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 Agreement has been previously amended in Amendment Number Twenty, effective September 28, 2016, 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 Amendment No. 20.

The Agreement has been previously amended in Amendment Number Twenty-One, effective October 27, 2016, to make changes necessary to reflect (a) the replacement of one (1) LMR System Site Johnstone Peak (JPK) with site Johnstone Peak 2 (JPK2) by (1) removing site JPK 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; and (2) include the JPK2 site 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, with the equivalent scope and cost for all Phases as JPK resulting in a cost neutral replacement; (b) exercise the Unilateral Options for all Work pertaining to Phase 1 (System Design) only for the replacement site Johnstone Peak 2; (c) reconcile ten (10) LMR System Sites to reflect the updated LMR System Design for a cost increase in the amount of \$804,944; (d) remove five (5) Project Descriptions from the scope of Phase 1 Work for a cost decrease in the amount of \$58,370; (e) make changes necessary to reflect an administrative revisions for a cost decrease in the amount of \$32,001; (f) increasing the Maximum Contract Sum by \$714,573 (\$804,944 - \$58,370 - \$32,001) from \$285,235,817 to \$285,950,390, when taking the cost increases and decreases into consideration; and (g) make other certain changes as set forth in Amendment No. 21.

The Agreement has been previously amended in Amendment Number Twenty-Two, effective November 17, 2016, to make changes necessary to reflect (a) the reconciliation of three (3) LMR System Sites to reflect the updated LMR System Design for a cost increase in the amount of \$476,676; (b) increasing the Maximum Contract Sum by \$476,676 from \$285,950,390 to \$286,427,066, when taking the cost increase into consideration; and (c) make other certain changes as set forth in Amendment No. 22.

The Agreement has been previously amended in Amendment Number Twenty-Three, effective December 21, 2016, to make changes necessary to (a) include four (4) LMR System Sites and all Work and equipment associated with these sites into Phase 1 (System Design) to be contemplated in the LMR System for a cost increase in the amount of \$36,068; (b) exercise the respective Unilateral Options all Phase 1 (System Design) Work pertaining to the four (4) LMR System Sites; (c) purchase certain Radio Equipment to be used with Authority's User Equipment for a cost increase in the amount of \$948; (d) increase the Maximum Contract Sum by \$39,016 from \$286,427,066 to \$286,466,082, when taking the cost increases into consideration; and (d) make other certain changes as set forth in Amendment No. 23.

The Agreement has been previously amended in Amendment Number Twenty-Four effective January 25, 2017, to make changes necessary to reflect (a) the reconciliation of six (6) LMR System Sites to align with the updated LMR System Design for a cost increase in the amount of \$2,379,232; (b) increase the Maximum Contract Sum by \$2,379,232 from \$286,466,082 to \$288,845,314, when taking the cost increase into consideration; and (c) make other certain changes as set forth in Amendment No. 24.

The Agreement has been previously amended in Amendment Number Twenty-Five effective March 20, 2017, to make changes necessary to reflect (a) the reconciliation of five (5) LMR System Sites to align with the updated LMR System Design for a cost decrease in the amount of \$330,670; (b) the inclusion of three (3) LMR System Sites into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercising the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$4,684,205 (c) increase the Maximum Contract Sum by \$4,353,535 from

\$288,845,314 to \$293,198,849, when taking the cost increase and decrease into consideration; and (d) make other certain changes as set forth in Amendment No. 25.

The Agreement has been previously amended in Amendment Number Twenty-Six, effective April 13, 2017, to make changes necessary to reflect (a) the reconciliation of seven (7) LMR System Sites to align with the updated LMR System Design for a cost increase in the amount of \$2,336,048; (b) the inclusion of one (1) LMR System Site into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercising the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$64,744 (c) increase the Maximum Contract Sum by \$2,400,792 from \$293,198,849 to \$295,599,641, when taking the cost increase into consideration; and (d) make other certain changes as set forth in Amendment No. 26.

The Agreement has been previously amended in Amendment Number Twenty-Seven, effective June 1, 2017, to make changes necessary to reflect (a) the reconciliation of two (2) LMR System Sites to align with the updated LMR System Design for a cost decrease in the amount of \$355,410 (b) the inclusion of two (2) LMR System Sites into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercising the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$1,439,627 (c) make changes necessary to reflect an administrative reconciliation, a reconciliation related to dropped sites, and a reconciliation related to services performed in Phase 1 for a cost decrease in the amount of \$3,434,574; (d) increase the scope to include all Work necessary to implement an environmental Mitigation Monitoring and Reporting Plan into the LMR program to assess and ensure mitigation measures are met for a cost increase in the amount of \$2,912,356, (e) increase the Maximum Contract Sum by \$561,999 from \$295,599,641 to \$296,161,640 when taking the cost increases and decreases into consideration; and (f) make other certain changes as set forth in Amendment No. 27.

The Agreement has been previously amended in Amendment Number Twenty-Eight, effective August 21, 2017, to make changes necessary to reflect (a) the reconciliation of one (1) LMR System Site to align with the updated LMR System Design for a cost increase of \$868,771 (b) make changes necessary to reflect LMR Change Order Modifications for a cost increase in the amount of \$31,487; (c) increase the Maximum Contract Sum by \$900,258 from \$296,161,640 to \$297,061,898 when taking the cost increases into consideration; and (d) make other certain changes as set forth in Amendment No. 28.

The Agreement has been previously amended in Amendment Number Twenty-Nine, effective September 07, 2017, to make changes necessary to reflect (a) the inclusion of one (1) LMR System Site into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercise the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$1,170,471 (b) make changes necessary to reflect LMR Change Order Modifications for a cost increase in the

amount of \$31,922; (c) increase the Maximum Contract Sum by \$1,202,393 from \$297,061,898 to \$298,264,291 when taking the cost increases into consideration; and (d) make other certain changes as set forth in Amendment No. 29.

The Agreement has been previously amended in Amendment Number Thirty, effective November 09, 2017, to make changes necessary to reflect (a) the reconciliation of seven (7) LMR System Site to align with the updated LMR System Design for a cost decrease of \$1,664,767 (b) the inclusion of one (1) LMR System Site into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercise the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$1,228,018 (c) make changes necessary to reflect LMR Change Order Modifications for a cost increase in the amount of \$4,195; (d) upgrade equipment for the Multiprotocol Label Switching (MPLS) Mobile Backhaul which will provide the backhaul capacity necessary for network performance reliability and functionality for a cost increase in the amount of \$2,200,000; (e) increase the Maximum Contract Sum by \$1,767,446 from \$298,264,291 to \$300,031,737 when taking the cost increases and decreases into consideration; and (f) make other certain changes as set forth in Amendment No. 30.

The Agreement has been previously amended in Amendment Number Thirty-One, effective February 28, 2018, to make changes necessary to reflect (a) certain LMR Change Order Modifications, in particular the installation of tower lighting at Mira Loma (MLM) LMR System Site, for a cost increase in the amount of \$19,573; (d) increase the Maximum Contract Sum by \$19,573 from \$300,031,737 to \$300,051,310 when taking the cost increases into consideration; and (b) make other certain changes as set forth in Amendment No. 31.

The Agreement has been previously amended in Amendment Number Thirty-Two, effective March 1, 2018, to make changes necessary to reflect (a) the reconciliation of three (3) LMR System Sites to align with the updated LMR System Design for a cost decrease in the amount of \$4,131,931; (b) a cost neutral administrative reconciliation in connection with the Narrowband Mobile Data Network (NMDN) Subsystem to align all corresponding per site NMDN costs to a single line item cost, impacting thirty-three (33) LMR System Sites; (c) decrease the Maximum Contract Sum by \$4,131,931 from \$300,051,310 to \$295,919,379 when taking the cost decrease into consideration; and (d) make other certain changes as set forth in Amendment No. 32.

The Agreement has been previously amended in Amendment Number Thirty-Three, effective May 30, 2018, to make changes necessary to reflect (a) certain LMR Change Order Modifications for a cost increase in the amount of \$17,490 (b) increase the Maximum Contract Sum by \$17,490 from \$295,919,379 to \$295,936,869 when taking the cost increase into consideration; and (c) make other certain changes as set forth in Amendment No. 33.

The Agreement has been previously amended in Amendment Number Thirty-Four, effective July 31, 2018, to make changes necessary to reflect (a) the inclusion of one (1) LMR System Site into the scope of Phase 2 (Site Construction and Site Modification),

Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercise the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$1,016,780; (b) certain LMR Change Order Modifications for a cost increase in the amount of \$90,744; (c) the removal of certain Authority equipment, in particular an Uninterruptible Power Supply (UPS), from the Los Angeles Police Department's Valley Dispatch Center (LAPDVDC) for a cost increase in the amount of \$6,010; (d) an extension of a bridge warranty for the certain Early Deployment/Specified Equipment purchased and deployed under previously approved Amendments to bridge the warranty gap for this equipment until December 31, 2019, for a cost increase in the amount of \$430,800; (e) increase the Maximum Contract Sum by \$1,544,334 from \$295,936,869 to \$297,481,203 when taking the cost increase into consideration; and (f) make other certain changes as set forth in Amendment No. 34.

The Agreement has been previously amended in Amendment Number Thirty-Five, effective October 11, 2018, to make changes necessary to reflect (a) the reconciliation of one (1) LMR System Site Olinda (OLI) 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 decrease in the amount of \$701,234; (b) the inclusion of one (1) LMR System Site Winding Way (WWY) into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), and exercise the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$1,064,388; (c) certain LMR Change Order Modifications for a cost increase in the amount of \$13,115 (d) make changes necessary to reflect an administrative reconciliation, a reconciliation related to the removal of certain Authority equipment, in particular an Uninterruptible Power Supply (UPS), from the Los Angeles Police Department's Valley Dispatch Center (LAPDVDC) for a cost increase in the amount of \$601; (e) increase the Maximum Contract Sum by \$376,870 from \$297,481,203 to \$297,858,073 when taking the cost decrease and increase into consideration; and (f) make other certain changes as set forth in Amendment No. 35.

The Agreement has been previously amended in Amendment Number Thirty-Six, effective November 19, 2018, to make changes necessary to reflect (a) reconciliation of five (5) LMR System Sites to align with the updated LMR System Design for a cost decrease in the amount of \$535,981; (b) inclusion of one (1) LMR System Site San Pedro Hill (SPH) into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR Components), Phase 4 (LMR System Implementation), exercising the Unilateral Options of the same, to align with the updated LMR System Design for a cost increase in the amount of \$842,471; (c) incorporate an LMR Change Order Modification for a cost increase in the amount of \$4,952 (d) increase the Maximum Contract Sum by \$311,442 from \$297,858,073 to \$298,169,515 when taking the cost decreases and increases into consideration; and (e) make other certain changes as set forth in Amendment No. 36.

The Agreement has been previously amended in Amendment Number Thirty-Seven, effective February 26, 2019, to make changes necessary to (a) incorporate

certain LMR Change Order Modifications for a cost increase in the amount of \$56,337; (b) increase the Maximum Contract Sum by \$56,337 from \$298,169,515 to \$298,255,852 when taking the cost increases into consideration; and (c) make other certain changes as set forth in Amendment No. 37.

The Agreement has been previously amended in Amendment Number Thirty-Eight, effective June 11, 2019, to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in Amendment No. 38 that results in a net cost decrease in the amount of \$47,393; (b) decrease the Maximum Contract Sum by \$47,393 from \$298,225,852 to \$298,178,459 when taking the cost increases and decreases into consideration; and (c) make other certain changes as set forth in Amendment No. 38.

The Agreement has been previously amended in Amendment Number Thirty-Nine, effective September 16, 2019, to make changes necessary to (a) reflect a reconciliation related to the Narrowband Mobile Data Network (NMDN) Subsystem resulting in a cost decrease in the amount of \$720,207, (b) incorporate certain LMR Change Order Modifications as further described in Amendment No. 39 that results in a cost increase in the amount of \$73,606; (c) decrease the Maximum Contract Sum by \$646,601 from \$298,178,459 to \$297,531,858 when taking the cost increase and decrease into consideration; and (d) make other certain changes as set forth in Amendment No. 39.

The Agreement has been previously amended in Amendment Number Forty, effective September 16, 2019, to make changes necessary to (a) reflect a reconciliation to remove two (2) LMR System Sites, Lower Encinal Pump Station (LEPS) and Winding Way (WWY), from the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation) and reconcile the Narrowband Mobile Data Network (NMDN) Subsystem to align with the updated LMR System Design for a net cost decrease in the amount of \$2,053,456; (b) revise Exhibit B (LMR System Specification) to include the scope for certain Work related to Channel 15 and 16 Interference Mitigation resulting in a cost increase in the amount of \$803,207; (c) incorporate certain LMR Change Order Modifications as further described in Amendment No. 40 that results in a cost decrease in the amount of \$10,920; (d) decrease the Maximum Contract Sum by \$1,261,169 from \$297,531,858 to \$296,270,689 when taking the cost increases and decreases into consideration; and (e) make other certain changes as set forth in Amendment No. 40.

The Agreement has been previously amended in Amendment Number Forty-One, effective October 17, 2019, to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in Amendment No. 41 that results in a cost increase in the amount of \$255,975; (b) increase the Maximum Contract Sum by \$255,975 from \$296,270,689 to \$296,526,664 when taking the cost increase into consideration; and (c) make other certain changes as set forth in Amendment No. 41.

The Agreement has been previously amended in Amendment Number Forty-Two, effective February 20, 2020, to make changes necessary to (a) reflect a modification to

the scope of the Acceptance Testing Plan (ATP) for a cost decrease in the amount of \$6,512,264; (b) in consideration of the modified ATP scope; (c) reduce certain Pre-Installation Acceptance Testing for a cost decrease in the amount of \$245,663; (d) extend the Bridge Warranty certain Early Deployment/Specified Equipment purchased and deployed under previously approved Amendments to bridge the warranty gap for this equipment until December 31, 2020, for a cost increase in the amount of \$312,897; (e) revise Exhibit C.16 (LMR Mitigation Monitoring and Reporting Plan [MMRP]) to reflect collective amounts for LMR Monitoring, Surveys, and Reporting Tasks and LMR Contingency Tasks, which is cost neutral; (f) decrease the Maximum Contract Sum by \$6,445,029 from \$296,526,664 to \$290,081,635 when taking aforementioned actions and costs into consideration; and (g) make other certain changes as set forth in Amendment No. 42.

The Agreement has been previously amended in Amendment Number Forty-Three, effective April 23, 2020, to make changes necessary to (a) reflect a reconciliation of certain equipment which results in a cost decrease in the amount of \$50,313 (b) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 43 that results in a cost increase in the amount of \$185,344; (c) increase the Maximum Contract Sum by \$135,031 from \$290,081,635 to \$290,216,666 when taking aforementioned actions and costs into consideration; and (d) make other certain changes as set forth in Amendment No. 43.

The Agreement has been previously amended in Amendment Number Forty-Four, effective April 23, 2020, to make changes necessary to (a) reflect a reconciliation related to certain LMR Change Order Modifications as further described in this Amendment No. 44 which results in a cost increase in the amount of \$2,609 (b) increase the Maximum Contract Sum by \$2,609 from \$290,216,666 to \$290,219,275 when taking aforementioned actions and costs into consideration; and (c) make other certain changes as set forth in Amendment No. 44.

The Agreement has been previously amended in Amendment Number Forty-Five, effective April 23, 2020, to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 45 which results in a cost increase in the amount of \$39,050 (b) increase the Maximum Contract Sum by \$39,050 from \$290,219,275 to \$290,258,325 when taking aforementioned actions and costs into consideration; and (c) make other certain changes as set forth in Amendment No. 45.

The Agreement has been previously amended in Amendment Number Forty-Six, effective May 11, 2020, to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 46 which results in a cost increase in the amount of \$375,728 (b) increase the Maximum Contract Sum by \$375,728 from \$290,258,325 to \$290,634,053 when taking aforementioned actions and costs into consideration; and (c) make other certain changes as set forth in Amendment No. 46.

The Agreement has been previously amended in Amendment Number Forty-Seven, effective June 16, 2020, to make changes necessary to (a) reflect a reconciliation of certain equipment which results in a cost decrease in the amount of \$3,130,664; (b) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 47 which results in a cost increase in the amount of \$634,535; (c) decrease the Maximum Contract Sum by \$2,496,129 from \$290,634,053 to \$288,137,924 when taking aforementioned actions and costs into consideration; and (d) make other certain changes as set forth in Amendment No. 47.

The Agreement has been previously amended in Amendment Number Forty-Eight, effective August 17, 2020, to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 48 which results in a cost increase in the amount of \$10,159; (b) increase the Maximum Contract Sum by \$10,159 from \$288,137,924 to \$288,148,083; and (c) make other certain changes as set forth in Amendment No. 48.

The Agreement has been previously amended in Amendment Number Forty-Nine, effective October 2, 2020, to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in Amendment No. 49, which results in a cost increase in the amount of \$370,007; (b) increase the Maximum Contract Sum by \$370,007 from \$288,148,083 to \$288,518,090; and (c) make other certain changes as set forth in Amendment No. 49.

The Agreement has been previously amended in Amendment Number Fifty, effective November 24, 2020, to make changes necessary (a) reflect a reconciliation to replace one (1) LMR System Site Sunset Ridge (SUN) with the East Sunset Ridge (ESR) site into the scope of Phase 2 (Site Construction and Site Modification), Phase 3 (Supply LMR System Components), and Phase 4 (LMR System Implementation), all associated Work, and exercising the Unilateral Options of the same, for a net cost increase in the amount of \$1,293,256; (b) extend the Bridge Warranty for certain Early Deployment/Specified Equipment purchased and deployed under previously approved Amendments to bridge the warranty gap for this equipment until December 31, 2021, for a cost increase in the amount of \$393,906; (c) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 50, which results in a cost increase in the amount of \$375,108; (d) increase the Maximum Contract Sum by \$2,062,270 from \$288,518,090 to \$290,580,360; and (e) make other certain changes as set forth in Amendment No. 50.

The Agreement has been previously amended in Amendment Number Fifty-One, effective January 14, 2021, to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 51, which result in a cost increase in the amount of \$23,977; (b) increase the Maximum Contract Sum by \$23,977 from \$290,580,360 to \$290,604,337; and (c) make other certain changes as set forth in Amendment No. 51.

The Agreement has been previously amended in Amendment Number Fifty-Two, effective January 22, 2021, to make changes necessary to (a) reconcile the Agreement to reflect a reduction in Phase 2 (Site Construction and Site Modification) for a cost decrease in the amount of \$34,203; (b) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 52, pursuant to Exhibit B.1, Sections 2.1.10 and 2.2.7.3 of the Agreement, which result in a cost increase not to exceed \$34,359; (c) increase the Maximum Contract Sum by a not to exceed amount of \$156 from \$290,604,337 to \$290,604,493 when taking the actions contemplated in this Amendment No. 52 into consideration; and (d) make other certain changes as set forth in Amendment No. 52.

The Authority and Contractor desire to further amend the Agreement to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in this Amendment No. 53 for a cost increase in an amount not to exceed \$342,460; (b) increase the Maximum Contract Sum by an amount not to exceed \$342,460 from \$290,604,493 to \$290,946,953 when taking the actions contemplated in this Amendment No. 53 into consideration; and (c) make other certain changes as set forth in this Amendment No. 53.

This Amendment No. 53 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. 53, 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. 53 refer to sections of the Base Document, as amended by this Amendment No. 53.
2. LMR Change Order Modifications. The parties agree and acknowledge the Contractor will perform the Work contemplated in COR No. MSI-7003 pursuant to Exhibit C.17 (LMR Change Order Modifications) in accordance with this Section 2, in exchange for \$186,594 as set forth in Exhibit C.17 (LMR Change Order Modifications) of Exhibit C (Schedule of Payments).

With respect to COR No. MSI-7010, the parties agree and acknowledge the Contractor will perform the Work, however, the parties are still negotiating the final the final costs. Once the final costs are mutually agreed upon by both parties for Contractor to perform this Work, the Contractor will perform this work in exchange for the negotiated amount, which will not exceed \$155,866.

Item No.	Site ID	Site Name	COR No.	Description	Not to Exceed Amount
1.	Various Sites	Various Sites	MSI-7003	VIAMM Multiple Site Implementation	\$186,594
2.	MDI	Mount Disappointment	MSI-7010	Utility Power Work	\$155,866
TOTAL NOT TO EXCEED AMOUNT:					\$342,460

3. Amendments to the Base Document.

3.1 Section 8.1 (Maximum Contract Sum and Contract Sum – General), in particular 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 Ninety Million, Nine Hundred Forty-Six Thousand, Nine Hundred Fifty-Three Dollars (\$290,946,953) which includes the Contract Sum and all Unilateral Option Sums, as set forth in Exhibit C (Schedule of Payments).

3.2 Section 24.4 (Limitation of Liability), in particular 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 Eighty-Four Million, Three Hundred Ninety-Four Thousand, Three Hundred Forty-Eight Dollars (\$284,394,348). 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), which is attached to this Amendment No. 53 and incorporated herein by this reference.

4.2 Exhibit C.17 (LMR Change Order Modifications) to Exhibit C (Schedule of Payments) is deleted in its entirety and replaced with Exhibit C.17 (LMR Change Order Modifications), which is attached to this Amendment No. 53 which is incorporated herein by this reference.

5. This Amendment No. 53 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. 53;
 - 5.2 Los Angeles County Counsel has approved this Amendment No. 53 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. 53; and
 - 5.4 The Executive Director of the Authority has executed this Amendment No. 53.
- 6. Except as expressly provided in this Amendment No. 53, 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. 53 on behalf of Contractor represent and warrant that the person executing this Amendment No. 53 for Contractor is an authorized agent who has actual authority to bind Contractor to each and every term and condition of this Amendment No. 53, and that all requirements of Contractor to provide such actual authority have been fulfilled.
 - 8. This Amendment No. 53 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 FIFTY-THREE
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. 53 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: _____

Scott Edson
Executive Director

By: _____

Arturs A. Vanags
Motorola Project Director

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

RODRIGO A. CASTRO-SILVA
County Counsel

By: _____

Truc L. Moore
Principal Deputy County Counsel

EXHIBIT C.1 - SCHEDULE OF PAYMENTS LMR SYSTEM PAYMENT SUMMARY				
Summary	Unilateral Option Sum	Contract Sum - Full Payable Amount	10% Holdback Amount	Payment Minus 10% Holdback Amount
Phase 1 ^(Note 1)	\$ -	\$ 42,322,029	\$ 3,124,069	\$ 39,197,960
Phase 2	\$ -	\$ 44,375,092	\$ 4,328,119	\$ 40,046,973
Phase 3	\$ -	\$ 58,058,793	\$ 4,402,282	\$ 53,656,511
Phase 4	\$ -	\$ 21,509,642	\$ 2,087,592	\$ 19,422,050
SUBTOTAL (Phases 1 to 4):	\$ -	\$ 166,265,556	\$ 13,942,062	\$ 152,323,493
Phase 5 (15 Years)	\$ 55,898,518	\$ -	\$ -	\$ 55,898,518
TOTAL (Phases 1 to 5):	\$ 55,898,518	\$ 166,265,556	\$ 13,942,062	\$ 208,222,011
Bounded Area Coverage Additive Alternate ^(Note 1)	\$ 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
LMR Mitigation Monitoring and Reporting Plan		\$ 2,912,356	\$ -	\$ 2,912,356
LMR Change Order Modifications		\$ 3,062,697	\$ 306,270	\$ 2,756,428
Multiprotocol Label Switching Mobile Backhaul		\$ 2,200,000	\$ 220,000	\$ 1,980,000
Channel 15 and Channel 16 Interference Mitigation		\$ 803,207		\$ 803,207
LMR Bridge Warranty		\$ 1,785,136		\$ 1,785,136
SUBTOTAL	\$ 130,552,956	\$ 177,028,952	\$ 21,933,776	\$ 285,648,132
TOTAL CONTRACT SUM:	\$177,028,952			
LMR Discounts^(Note 2)	-\$16,634,955			
MAXIMUM CONTRACT SUM(Total Unilateral Option Sum plus Total Contract Sum):	\$290,946,953			

Note 1: 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., and included (\$173, 110) in Phase 1 Contract Sum - Full Payable Amount. The balance of the remaining Unilateral Option Sum for Bounded

Note 2: The total remaining balance of the LMR Discounts applied to the Max Contract Sum will be utilized at the discretion of the Authority.

SCHEDULE OF PAYMENTS
EXHIBIT C.17 - LMR CHANGE ORDER MODIFICATIONS

Change Order Number	Site ID	Item/Category	Contract Sum - Payable Amount	10% Holdback Amount	Payable Amount Less 10% Holdback Amount
Amendment No. 28					
MSI 003 Revised	OLI	MSI-003 OLI Tower Mapping (Revised)	\$ -	\$ -	\$ -
MSI-007	LDWP243	MSI-007 LDWP243 Additional Structural Analysis for Coverage Enhancement	\$ 2,200	\$ 220	\$ 1,980
MSI-008	LMR	MSI-008 Station B Reprogramming of 700 MHz DTVRS Stations	\$ 9,912	\$ 991	\$ 8,921
MSI-009	AGH	MSI-009 AGH SCE Engineering Fee Reimbursement	\$ 5,634	\$ 563	\$ 5,071
MSI-012	LMR	MSI-012 Site 3D Models per Authority Request BJM, DPK, TWR	\$ -	\$ -	\$ -
MSI-015	BUR1	MSI-015 BUR1 SCE Engineering Fee	\$ 3,308	\$ 331	\$ 2,977
MSI-016	BMT	MSI-016 BMT SCE Engineering Fee	\$ 592	\$ 59	\$ 533
MSI-017	MML	MSI-017 MML SCE Engineering Fee	\$ 3,308	\$ 331	\$ 2,977
Amendment No. 28 Subtotal			\$ 24,953	\$ 2,495	\$ 22,458
Amendment No. 29					
MSI-030	APC	MSI-030 Saturday Labor and Crane Cost	\$ 2,405	\$ 241	\$ 2,165
MSI-020R	BKK	MSI-020R Tower Mapping and Painting	\$ 26,225	\$ 2,623	\$ 23,603
MSI-024	BKK	MSI-024 Dispersive Wave Testing	\$ 5,426	\$ 543	\$ 4,883
MSI-1208	POM	MSI-LMR1208 ACM and LCP Testing Services	\$ 4,400	\$ 440	\$ 3,960
Amendment No. 29 Subtotal			\$ 38,456	\$ 3,846	\$ 34,610
Amendment No. 30					
MSI-1205	MVS	MSI-1205 MVS LCP Testing Services	\$ 4,195	\$ 420	\$ 3,776
Amendment No. 30 Subtotal			\$ 4,195	\$ 420	\$ 3,776
Amendment No. 31					
MSI-1265	ONK	MSI-1265 Environmental Testing ACM and LPC Services	\$ 3,633	\$ 363	\$ 3,270
MSI-1206	CCT	MSI-1206 HVAC Condenser Pad Modification	\$ 9,745	\$ 975	\$ 8,771
MSI-1321	AGH	MSI-1321 Additional Title, Survey, Research	\$ 2,100	\$ 210	\$ 1,890
MSI-1267R	LARICSHQ	MSI-1267R Environmental Testing ACM and LPC Services	\$ 4,095	\$ 410	\$ 3,686
Amendment No. 31 Subtotal			\$ 19,573	\$ 1,957	\$ 17,616
Amendment No. 33					
MSI-1528	MLM	MSI-1528 MLM Tower Light	\$ 17,490	\$ 1,749	\$ 15,741
Amendment No. 33 Subtotal			\$ 17,490	\$ 1,749	\$ 15,741
Amendment No. 34					
MSI-1447	AGH	MSI-1477 AGH Additional Electrical Work	\$ 84,503	\$ 8,450	\$ 76,053
MSI-1435	HPK	MSI-1435 HPK Power Conduit Outside Compound	\$ 6,241	\$ 624	\$ 5,617
Amendment No. 34 Subtotal			\$ 90,744	\$ 9,074	\$ 81,670
Amendment No. 35					
MSI-5002	SDW	MSI-5002 SDW Waveguide Bridge Installation	\$ 13,115	\$ 1,312	\$ 11,804
Amendment No. 35 Subtotal			\$ 13,115	\$ 1,312	\$ 11,804
Amendment No. 36					
MSI-5003	BJM	MSI-5003 BJM Tower Mapping Services	\$ 4,952	\$ 495	\$ 4,457
Amendment No. 36 Subtotal			\$ 4,952	\$ 495	\$ 4,457
Amendment No. 37					
MSI-5010	CRN	CRN Lead Paint Abatement and Consulting Services	\$ 3,754	\$ 375	\$ 3,379
MSI-5008	CRN	CRN Siren	\$ 10,113	\$ 1,011	\$ 9,102
MSI-5015	CRN	CRN Permanent Fence	\$ 5,043	\$ 504	\$ 4,539
MSI-1209R	FCCF	FCCF Receptacle Light Installation	\$ 12,336	\$ 1,234	\$ 11,102
MSI-5031	HPK	HPK SCE Trenching	\$ 12,623	\$ 1,262	\$ 11,361

Change Order Number	Site ID	Item/Category	Contract Sum - Payable Amount	10% Holdback Amount	Payable Amount Less 10% Holdback Amount
MSI-UNI-002	MMC	MMC Concrete Under Asphalt	\$ 9,765	\$ 977	\$ 8,789
MSI-UNI-003	MMC	MMC Electrical Power Conduits	\$ 2,703	\$ 270	\$ 2,433
Amendment No. 37 Subtotal			\$ 56,337	\$ 5,634	\$ 50,703
Amendment No. 38					
MSI-5017	PMT	PMT 2nd GeoTechnical Engineering Services	\$ 23,626	\$ 2,363	\$ 21,263
MSI-5030	UCLA	UCLA ACM and LCP Testing Services	\$ 4,725	\$ 473	\$ 4,253
MSI-UNI-004	FCCF	FCCF Relocated Prime Site Equipment		\$ -	\$ -
MSI-5038	SGH	SGH Barrel Tile Roof	\$ 6,843	\$ 684	\$ 6,159
MSI-5021	SGH	SGH NB CX Stand Down Costs	\$ 7,652	\$ 765	\$ 6,887
MSI-5046	DPW38	DPW38 LCP Testing	\$ 2,363	\$ 236	\$ 2,127
MSI-5043	VPK	VPK Tower Foundation	\$ 34,102	\$ 3,410	\$ 30,692
MSI-5006	VPK	VPK Power Run	\$ 50,027	\$ 5,003	\$ 45,024
MSI-UNI-005	VPK	VPK Retaining Wall Credit	\$ (68,141)	\$ (6,814)	\$ (61,327)
MSI-UNI-006	LACFDEL	LACFDEL Reuse of Existing Shelter	\$ (121,819)	\$ (12,182)	\$ (109,637)
MSI-5024	MIR	MIR Additional Topography	\$ 2,205	\$ 221	\$ 1,985
MSI-5061	MDI	MDI 2nd GeoTechnical Engineering Services	\$ 7,588	\$ 759	\$ 6,829
MSI-5028	MDI	MDI Underground Utility Locator	\$ 756	\$ 76	\$ 680
MSI-5029	MDI	MDI Addition Topo Survey	\$ 2,100	\$ 210	\$ 1,890
MSI-5050	WWY	WWY Native American Monitoring	\$ 580	\$ 58	\$ 522
Amendment No. 38 Subtotal			\$ (47,393)	\$ (4,739)	\$ (42,654)
Amendment No. 39					
MSI-5073	AGH	AGH Encroachment Permit Fee	\$ 4,807	\$ 481	\$ 4,326
MSI-5045	CCB	CCB Abatement and Remediation Work	\$ 13,125	\$ 1,313	\$ 11,813
MSI-5076	LACFDEL	LACFDEL New Phase 1 Work_Rev.1	\$ 43,271	\$ 4,327	\$ 38,944
MSI-5068	SPH	SPH Lease Exhibit Option_Rev.1	\$ 1,065	\$ 107	\$ 959
MSI-5063	UNIV	UNIV Recuperation of Cost for Day Tank for Cancelled Site	\$ 11,338	\$ 1,134	\$ 10,204
Amendment No. 39 Subtotal			\$ 73,606	\$ 7,361	\$ 66,245
Amendment No. 41					
MSI-5071	RIH	Location Change	\$ 37,705	\$ 3,771	\$ 33,935
MSI-5070	UNIV	New Phase 1 Work	\$ 51,024	\$ 5,102	\$ 45,922
MSI-5069	RPV1	New Phase 1 Work	\$ 54,696	\$ 5,470	\$ 49,226
MSI-5042	INDWT	Request for Road Repairs	\$ 14,425	\$ 1,443	\$ 12,983
MSI-5067	RHT	ACM/LCP Testing and Monitoring	\$ 1,697	\$ 170	\$ 1,527
MSI-5066	SPH	RF Engineering Coverage Assessment/Maps	\$ 12,672	\$ 1,267	\$ 11,405
MSI-5072	LMR	Addition of Microwave Link from BHS to SPH	\$ 22,740	\$ 2,274	\$ 20,466
MSI-5078	CPK	Additional Ice Bridge	\$ 1,975	\$ 198	\$ 1,778
MSI-5081	LMR	LARTCS VHF Frequency Changes	\$ 48,041	\$ 4,804	\$ 43,237
MSI-5087	MTL2	Road Repair Design	\$ 11,000	\$ 1,100	\$ 9,900
Amendment No. 41 Subtotal			\$ 255,975	\$ 25,598	\$ 230,378
Amendment No. 43 and Amendment No. 44					
MSI-6017	RIH	Addition of Microwave Link	\$ 51,604	\$ 5,160	\$ 46,444
MSI-6016	SPH	Addition of Microwave Link	\$ 61,638	\$ 6,164	\$ 55,474
MSI-6015	UNIV	Addition of Microwave Link	\$ 74,711	\$ 7,471	\$ 67,240
Amendment No. 43 and Amendment No. 44 Subtotal			\$ 187,953	\$ 18,795	\$ 169,158
Amendment No. 45					
MSI-6018	LPC	Environmental Phase II Limited Subsurface Investigation	\$ 19,740	\$ 1,974	\$ 17,766
MSI-6019	MML	Environmental Phase II Limited Subsurface Investigation	\$ 19,310	\$ 1,931	\$ 17,379
Amendment No. 45 Subtotal			\$ 39,050	\$ 3,905	\$ 35,145
Amendment No. 46					
MSI-6043	POM	Asbestos Abatement Services	\$ 330,000	\$ 33,000	\$ 297,000
MSI-6030	JPk/RHT/VPK	Tower Top Amplifier Upgrade for Early Deployment Site Transition	\$ 45,728	\$ 4,573	\$ 41,155
Amendment No. 46 Subtotal			\$ 375,728	\$ 37,573	\$ 338,155

Change Order Number	Site ID	Item/Category	Contract Sum - Payable Amount	10% Holdback Amount	Payable Amount Less 10% Holdback Amount
Amendment No. 47					
MSI-6023	LARICS	LMR System Reconciliation - Engineering & Re-Racking Services	\$ 174,641	\$ 17,464	\$ 157,177
MSI-6045	ONK	Add ONK Prime Site and ASR	\$ 438,279	\$ 43,828	\$ 394,451
MSI-6040	RIH	Soil Removal	\$ 41,676	\$ 4,168	\$ 37,508
MSI-6031	BHS	Soil Removal	\$ 41,577	\$ 4,158	\$ 37,419
MSI-6042	LPC	Soil Removal	\$ 41,854	\$ 4,185	\$ 37,668
MSI-6041	MDI	Soil Sampling	\$ 10,134	\$ 1,013	\$ 9,120
MSI-6034	RHT	Additional Topography	\$ 3,733	\$ 373	\$ 3,360
Amendment No. 47 Subtotal			\$ 751,893	\$ 75,189	\$ 676,704
Amendment No. 48					
MSI-6064	AGH	Easement Payment	\$ 4,055	\$ 406	\$ 3,650
MSI-6062	TOP	Monopole Painted Neutral Brown	\$ 6,104	\$ 610	\$ 5,494
MSI-6050	LARICS	Core and Site Router/Switch Upgrade	\$ -	\$ -	\$ -
Amendment No. 48 Subtotal			\$ 10,159	\$ 1,016	\$ 9,143
Amendment No. 49					
MSI-6061	Various	New Antenna Models and Powder Coating	\$ 110,000	\$ 11,000	\$ 99,000
MSI-6067	MTL2	Removing impediments to road access caused by erosion to the site road, etc	\$ 260,007	\$ 26,001	\$ 234,006
MSI-6069	LARICS	Audio Loopback	\$ -	\$ -	\$ -
Amendment No. 49 Subtotal			\$ 370,007	\$ 37,001	\$ 333,006
Amendment No. 50					
MSI-6076	PRG/AGH	PRG Relocation to AGH for NMDN System	\$ 13,678	\$ 1,368	\$ 12,310
MSI-6077	PRG	VIAMM Implementation	\$ 38,615	\$ 3,862	\$ 34,754
MSI-6086	BJM/TWR	BJM & TWR Generator Noise Mitigation Engineering Assessment Services	\$ 221,211	\$ 22,121	\$ 199,090
MSI-6079	MML	MML Buried Concrete and Rebar Removal	\$ 101,604	\$ 10,160	\$ 91,444
Amendment No. 50 Subtotal			\$ 375,108	\$ 37,511	\$ 337,597
Amendment No. 51					
MSI-6094	FCCF/PLM	Leased Fiber Link between FCCF and PLM	\$ 23,977	\$ 2,398	\$ 21,579
MSI-6096	CCB	Microwave Installation Modification	\$ -	\$ -	\$ -
Amendment No. 51 Subtotal			\$ 23,977	\$ 2,398	\$ 21,579
Amendment No. 52					
MSI-7005	CPK	Road Work for Access	\$ 23,393	\$ 2,339	\$ 21,054
MSI-7007	CPK	Utility Power Provision to CPK Site	\$ 10,966	\$ 1,097	\$ 9,869
Amendment No. 52 Subtotal			\$ 34,359	\$ 3,436	\$ 30,923
Amendment No. 53					
MSI-7003	Various	VIAMM Multiple Site Implementation	\$ 186,594	\$ 18,659	\$ 167,935
MSI-7006	MDI	Utility Power Work	\$ 155,866	\$ 15,587	\$ 140,279
Amendment No. 52 Subtotal			\$ 342,460	\$ 34,246	\$ 308,214
TOTAL FOR ALL LMR CHANGE ORDER MODIFICATIONS			\$ 3,062,697	\$ 306,270	\$ 2,756,428

Note 1: The above identified Change Order Modifications have been fully negotiated between the Authority and the Contractor, and the above amounts represent a full and final resolution of all changes contained in those identified Change Order Modifications.