



# AGENDA

## LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY (“AUTHORITY”)

### BOARD OF DIRECTORS MEETING Thursday, January 6, 2022 • 9:00 a.m.

Microsoft Teams Meeting\* Link: [Click here to join the meeting](#)

#### Call-in Number for Board Members and Public:

Public may submit a Public Comment during the meeting to the Board by accessing the Microsoft Teams Meeting Link above or by the Call-In Telephone Number below.

Telephone Number: (323) 886-6924  
Conference ID: 792 535 787#

#### AGENDA POSTED: December 30, 2021

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

\*The procedures used for this Teleconference Meeting are governed by AB 361.

MEMBERS		ALTERNATES	
1.	<b>Fesia Davenport</b> , CEO County of Los Angeles Chief Executive Office	1.	<b>John Geiger</b> County of Los Angeles Chief Executive Office
2.	<b>Anthony Marrone (Vice-Chair)</b> , Interim Fire Chief County of Los Angeles Fire Department	2.	<b>Eleni Pappas</b> , Deputy Fire Chief County of Los Angeles Fire Department
3.	<b>Alex Villanueva (Chair)</b> , Sheriff County of Los Angeles Sheriff’s Department	3.	<b>Brian Yanagi</b> , Acting Chief County of Los Angeles Sheriff’s Department
4.	<b>Cathy Chidester</b> , Director, EMS Agency County of Los Angeles Department of Health Services	4.	<b>Kay Fruhwirth</b> , Assistant Director, EMS Agency County of Los Angeles Department of Health Services
5.	<b>Vacant Seat</b> Los Angeles Area Fire Chiefs Association	5.	<b>Vacant Seat</b> Los Angeles Area Fire Chiefs Association
6.	<b>Brian Solinsky</b> , Interim Police Chief City of South Pasadena Police Department	6.	<b>Vacant Seat</b> Los Angeles County Police Chief’s Association
7.	<b>Mark R. Alexander</b> , City Manager California Contract Cities Association	7.	<b>Marcel Rodarte</b> , Executive Director California Contract Cities Association
8.	<b>David Povero</b> , Chief of Police City of Covina Police Department	8.	<b>Ric Walczak</b> , Captain City of Covina Police Department
9.	<b>Mark Fronterotta</b> , Chief of Police City of Inglewood Police Department	9.	<b>Ed Ridens</b> , Deputy Chief City of Inglewood Police Department
10.	<b>Brian Leyn</b> , Captain City of Signal Hill Police Department	10.	<b>Vacant Seat</b> City of Signal Hill Police Department

OFFICERS
<b>Scott Edson</b> , LA-RICS Executive Director
<b>Arlene Barrera</b> , County of Los Angeles Auditor-Controller
<b>Keith Knox</b> , County of Los Angeles Treasurer and Tax Collector
<b>Susy Orellana-Curtiss</b> , LA-RICS Administrative Chief
<b>Beatriz Cojulun</b> , LA-RICS 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. December 2, 2021 – Regular Meeting Minutes

Agenda Item A

B. December 20, 2021 – Special Meeting Minutes

Agenda Item B

**IV. PUBLIC COMMENTS**

**V. CONSENT CALENDAR – (C)**

**C. FINDINGS TO CONTINUE TELECONFERENCE MEETINGS UNDER AB 361 AND RELATED ACTIONS**

It is recommended that your Board:

1. Find, in accordance with AB 361 Section 3(e)(3), California Government Code Section 54953(e)(3), that the Board has reconsidered the circumstances of the State of Emergency due to the COVID-19 pandemic and that the State of Emergency remains active; and
2. Find, in accordance with AB 361 Section 3(e)(3), California Government Code Section 54953(e)(3), that local officials continue to recommend measures to promote social distancing.

Agenda Item C

**VI. REPORTS – (D – K)**

D. Director's Report – Scott Edson

Agenda Item D

E. Project Manager's Report – Justin Delfino

Agenda Item E

F. Joint Operations and Technical Committee Chair's Report – No Report



G. Finance Committee Chair's Report – No Report

H. PSBN Round Implementation and Construction Update – Chris Odenthal

Agenda Item H

I. Spectrum and Licensing Issues Impacting Land Mobile Radio Deployment – Ted Pao

Agenda Item I

J. Update on Coastal Commission Sites in the Land Mobile Radio System – Tanya Roth

Agenda Item J

K. Outreach Update – Sven Crongeyer

Agenda Item K

**VII. DISCUSSION ITEM – NONE**

**VIII. ADMINISTRATIVE MATTERS (L)**

**L. APPROVE AMENDMENT NO. 86 TO AGREEMENT NO. LA-RICS 007  
LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM  
LAND MOBILE RADIO SYSTEM**

It is recommended that your Board:

1. Make the following findings:

- a. Find that (a) approval of Amendment No. 86 to contemplate certain Change Orders at the Pine Mountain (PMT) site, related to road maintenance work, and at the Green Mountain (GRM) site related to surveying for power easement, are 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 change 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.

2. Approve Amendment No. 86 to Agreement No. LA-RICS 007 for an LMR System with Motorola Solutions, Inc. (MSI), which revises the Agreement to incorporate certain LMR Change Orders as further described in this Board Letter for a cost increase in the amount of \$11,438.
3. Authorize increase to the Maximum Contract Sum in an amount of \$11,438 when taking the recommended actions into consideration from \$214,667,802 to \$214,679,240.
4. Delegate authority to the Executive Director to execute one or more future Amendments and Notices to Proceed for time sensitive Change Orders related to roadwork at sites impacted by recent inclement weather conditions for an aggregate not-to-exceed amount of \$20,000 without going to the Oversight Committee. In the event your Board approves this delegation, the Executive Director will report back if any Amendments were processed and the value of any such Amendments.
5. Delegate authority to the Executive Director to execute Amendment No. 86, in substantially similar form to the enclosed Amendment (Enclosure).

Allow for the issuance of one or more Notices to Proceed for the Work contemplated in Amendment No. 86, as may be necessary.

Agenda Item L

**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, February 3, 2022, at 9:00 a.m., via Microsoft Teams / Teleconference Meeting.



## BOARD MEETING INFORMATION

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 REGULAR MEETING MINUTES

LOS ANGELES REGIONAL  
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

Thursday, December 2, 2021 • 9:00 a.m.  
Conducted via Microsoft Teams Meeting\*

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## BOARD MEMBERS PRESENT:

**Cathy Chidester**, Director,  
EMS Agency, County of Los Angeles Department of Health Services

**Brian Solinsky**, Chief of Police,  
Los Angeles Area Fire Chief's Association

**Mark Alexander**, City Manager,  
CA Contract Cities Association

**David Povero**, Chief of Police,  
City of Covina Police Department

**Mark Fronterotta**, Chief of Police,  
City of Inglewood Police Department

**Brian Leyn**, Captain,  
City of Signal Hill Police Department

## ALTERNATES FOR BOARD MEMBERS PRESENT:

**John Geiger**,  
County of Los Angeles Chief Executive Office

**Eleni Pappas**, Alternate Vice-Chair, Chief,  
County of Los Angeles Fire Department

**Brian Yanagi**, Alternate Chair, Acting Chief,  
County of Los Angeles Sheriff's Department

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## OFFICERS PRESENT:

**Scott Edson**, LA-RICS Executive Director

**Susy Orellana-Curtiss**, LA-RICS Administrative Deputy

**Beatriz Cojulun**, LA-RICS Board Secretary

## BOARD MEMBERS ABSENT / VACANT:

**Vacant Seat**,  
The Los Angeles Area Fire Chiefs Association



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

**I. CALL TO ORDER**

Alternate Chair Brian Yanagi called the Regular Meeting of the Board to order at 9:00 a.m.

**II. ANNOUNCE QUORUM – Roll Call**

Board Secretary Beatriz Cojulun took the roll and acknowledged a quorum was present.

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

**A. November 4, 2021 – Regular Minutes**

Alternate Chair Yanagi asked if there were any questions or comments from the Board to the minutes attached to the Regular Meeting agenda. There were no questions or comments.

Board Member Mark Alexander motioned first, seconded by Board Member David Povero.

**Ayes 9:** Geiger, Pappas, Yanagi, Chidester, Solinsky, Alexander, Povero, Fronterotta, and Leyn.

**MOTION APPROVED.**

**IV. PUBLIC COMMENTS – NONE**

There was no public comment.

**V. CONSENT CALENDAR – NONE**

There were no Consent Calendar items.

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

**B. Director's Report – Scott Edson**

Executive Director Scott Edson reported to the Board that over the past few months, out of the 58 LMR sites, two (2) are pending construction start.



- Executive Director Edson said that Topanga-RELAY's (TOP-RELAY's) coastal package was submitted to the Regional Planning Department (RPD) at the end of October 2021 and hopefully the movement of TOP-RELAY equipment to the newly available MCI site will make this easier. Executive Director Edson said that once that scope shift is solidified, there would be one site left to start construction. Executive Director Edson went on to say the Board had previously approved this site, which would be designed and built by a separate contractor with Phase 4 work performed by Motorola Solutions, Inc. (MSI).

Executive Director Edson stated the Authority and MSI are wrapping up the final details associated with the shift of scope from TOP-RELAY to MCI, and contemplate presenting the item to the Board at the Special Meeting on Monday, December 20, 2021. Executive Director Edson once again thanked the Board for their flexibility in accommodating Special Meeting requests, as this will allow the Authority to save several weeks in time versus waiting for the next scheduled meeting on January 6, 2022.

- Executive Director Edson stated as reported to the Board last month another site facing issues was Green Mountain (GRM). Executive Director Edson stated that with construction near completion at GRM, the Authority continues to aggressively push Department of Water and Power (DWP) Real Estate and Engineering for delivery of power design and concurrence on site access documents. Executive Director Edson said the Authority plans to present items related to GRM to the Board at the Special Meeting on December 20, 2021, as well. Executive Director Edson went on to say the Authority continued to seek support from the City of Los Angeles (City) Mayor's Office and City Attorney's Office, to expedite necessary land use approvals. Executive Director Edson said the Authority received a verbal apology from the DWP Engineering side for their slow review and will continue to pressure Real Estate and Design to expedite the current scope to keep GRM on schedule.

Executive Director Edson said with the streamlined path forward of the two (2) sites pending start of construction now morphing into one site, progress continues on all other sites wrapping up Phase 2, while in parallel certain Phase 4 activities proceed. Executive Director Edson stated that Program Manager Justin Delfino would provide the Board with additional details relating to progress made at those sites under PM Report, Agenda Item C.

Executive Director Edson said that Lead Engineer Pao would provide the Board with an update on the Spectrum and Licensing issues impacting the LMR program





under Agenda Item G. Executive Director Edson said the Authority has ten (10) licenses that are risk of not being approved and if so, may cause a degradation of coverage. Executive Director Edson stated the Authority is looking at all options as well as corresponding cost to possible solutions, but hopeful the Federal Communications Commission (FCC) will come through and properly approve these licenses. Executive Director Edson went on to say the Authority continues to work with the Internal Services Department (ISD), the spectrum manager, to leverage the public safety aspect and need with the FCC and have provided ISD with a copy of the Authority's agreed-to Integrated Master Schedule (IMS) so they know the exact need-by date for these licenses.

Executive Director Edson said that additionally, the Authority has included a Receive and File update on the AT&T Business Agreement fund, which is on track and spending in accordance with the approved Fiscal Year (FY) 2020-21 Adopted Budget. Executive Director Edson said that as a reminder, this fund which is made up of the revenue from the Public Safety Broadband Network (PSBN) Asset transfer to AT&T, pays for all non-grant funded / Member funded line items. Executive Director Edson stated that Administrative Deputy Susy Orellana-Curtiss would address any questions regarding the fund and use under Agenda Item I.

Executive Director Edson said that in accordance with AB 361, the Authority has brought forth the monthly item requesting the Board find the Authority can proceed with teleconference meetings of this Board under Agenda Item J. Executive Director Edson stated that Board Members concerns regarding the changing of dates from first Thursday of every month have been addressed via a revised recommendation for the Board's consideration which would be addressed under Agenda Item L. Executive Director Edson believes this will provide the continuity and stability of first-Thursday Board meetings, as well as accommodation of AB 361 via calendaring of Special Meetings when needed to satisfy the current statute.

Executive Director Edson reported that as the Authority reconciles the final make-up of the sites comprising the LMR system, and move into the Phase 4 activities at sites with construction completed, the Authority is making changes to the LMR contract with MSI that align with the final scope of the program. Executive Director Edson said that as such, the Authority had intended on presenting the Board with Agenda Item K, which removes certain work that will not be executed under this agreement including certain additive alternates such as bounded area coverage, building coverage, Metrorail coverage, etc. Executive Director Edson went on to say that Technical and Operations Committee members have raised some creative ideas that need to be considered before the Board's consideration and thus the



Authority will pull Agenda Item K from this meeting and present it at the Special Meeting or the meeting in January 2022.

Executive Director Edson said as for grants, as last reported to the Board, once the Authority achieved the agreed-upon IMS the Authority was able to appropriately assess the funding gap to complete the program. Executive Director Edson stated the Authority met with members of City Mayor's Office, including Deputy Mayor Jeff Gorell, various regional leaders, and ultimately the Approval Authority in a series of meetings during October and November 2021. Ultimately the meetings resulted in the Urban Area Security Initiative (UASI) Approval Authority's vote allocating \$10 million over two (2) grant years, out of the \$40 million needed to complete the program.

Executive Director Edson stated as reported to the Board that last month on November 2, 2021, the Authority met with Federal Emergency Management Agency (FEMA), California Governor's Office of Emergency Services (CalOES), and City Mayor's Office to provide an update on the funding request Approval Authority Meeting. Executive Director Edson said that after the meeting, CalOES issued a letter on November 23, 2021, to the UASI Approval Authority via the City Mayor's Office and the County of Los Angeles (County) Chief Executive Office (CEO) requesting the City, UASI and all UASI Approval Authority partners, the County and LA-RICS to mutually develop a regional solution for completion of the LA-RICS project – given this is a program that will benefit the region in its entirety there needs to be commitment including funding commitment to complete the same.

Executive Director Edson stated the Grantor required a written update along with a plan addressing the funding shortfall by no later than January 31, 2022. Executive Director Edson said that on Wednesday, November 24, 2021, the UASI Approval Authority met and requested LA-RICS to provide additional details relating to the Authority's funding request with a plan to reconvene the Approval Authority on December 15, 2021. Executive Director Edson said that he met with regional stakeholders including the County to address the funding shortfall, which includes potential application for State Homeland Security Grant Program (SHSGP) grant funds, as well as seeking legislative carve-out at the state level to fund LA-RICS Program. Executive Director Edson went on to say that he would continue to update the Board on this very important matter and thanked the Board in advance for their continued support for regional interoperable communications. Director Edson concluded his report.

There was no further discussion.



C. Project Manager's Report – Justin Delfino

**LMR PROGRAM CONSTRUCTION OVERVIEW**

Program Manager Delfino provided an update on the construction overview and shared some recent successes on the LMR Program for November and early December 2021.

Program Director Delfino shared an LMR Network diagram (map).

**Open and Active Sites:**

Program Manager Delfino provided presentation detailing a list of active construction sites:

- There are thirteen (13) UASI 19' active sites at this time:
  - Burnt Peak (BUR1)
  - Pine Mountain (PMT)
  - Rancho Palos Verdes TEE (RPVT)
  - Green Mountain (GRM)
  - Mount Lukens-2 (MTL2)
  - Universal (UNIV)
  - Black Jack Peak (BJM)\*
  - East Sunset Ridge (ESR)
  - Los Angeles County Fire 072 (LACF072)
  - Tower Peak (TWR)\*
  - Dakin Peak (DPK)\*
  - Frost Peak (FRP)
  - San Pedro Hill (SPH)

\*Catalina Island sites are under construction, as MSI seeks to complete all three for Phase 2 and Phase 4a by the end 2021.

- SPH and LACF072 are also under construction at this time while the other UASI 19 sites are substantially completed for Phase 2 and completing Phase 4a.
- The Authority is currently working on developing design documents for submission to the California Coastal Commission for SPN/TOP-RELAY at the MCI location.

**Notable November and early December successes on the LMR Program:**

- There are zero recordable injuries to-date.
  - In this period there was a COVID-19 infection; fortunately the situation did not cause mass infections nor did the incident resulting stand-downs, nor any loss of production time.
  - There was a small fire that ignited by MSI at the BUR1 site, immediately following the Phase 2 punch walk with the Authority. The fire was quickly extinguished and did not reach a level that would constitute an emergency. The Contractor did follow the protocols as outlined in the fire plan and in



accordance with the directives given under the Special Use Permit from the US Forest Service (USFS). The USFS was informed of the incident and no further direction was given to the Contractor. Fortunately, the incident was well managed by the Contractor.

- The Authority has recently conducted punch walks at the following sites:
  - Phase 2 walks with the Authority have been completed: ESR, GRM, BUR1, and FRP. Congratulations to MSI for showing some tenacity as they accelerated the plans to complete the FRP site and managed to complete the site ahead of the upcoming snow/ski season.
- The Authority is working on getting the MCI site power upgraded to support the SPN and TOPRELAY equipment. The MCI building will utilize an existing electrical service, planned to be upgraded to a 400-amp service. SCE has informed the LA-RICS Team that the service upgrade should be completed by mid-December 2021.
- There are 31 sites optimized; 26 sites on the air; and 15 cells on the air.

### **SAA's:**

Program Manager Delfino informed the Board that all site access agreements have been completed.

### **Areas of Focus:**

Program Manager Delfino reported:

- The surety company remains involved in reviewing contractor default claims. Although, for the month of November the surety company was not as involved as in past months and did not request any additional documentation of the LA-RICS Team.
- Regarding the IMS update for December 2021, both MSI and the Authority have conducted (2) meetings to review proposed schedule changes by MSI, (2) additional meetings are needed to complete the remaining schedule update review, the Teams are planning to meet on Friday, December 3, 2021.
- The power issue at the BUR1 site is now planned to be addressed with the use of a roll-up generator onsite to allow MSI to optimize the site once ready to perform the work.
- The GRM site has an issue with utility activation. As previously mentioned, the situation has escalated to the City of Los Angeles Mayor's Office, as well as to leadership at the City of Los Angeles Department of Water and Power. The site needs commercial power.



- MSI has reported labor shortages and supply chain issues resulting in late material deliveries. During this period, none of the reported issues have caused delay to the critical path of the Program. Southern California Edison, (SCE) has also reported difficulty in acquiring materials. For example, at Mount Disappointment site, (MDI) the transformer needed for the site was originally planned to be in market in October 2021, but was then re-forecasted for November 28, 2021, but that date was also missed. The LA-RICS Team escalated this issue to SCE leadership for alternative options. .
- Closeout documentation submissions continue to be a discussion topic in this period with a meeting to go over planned deliverables on Friday, December 3, 2021.
- The Authority also maintains focus on the UASI 19' grant closeout including extensive planning discussions with MSI.

#### **LMR Highlights:**

- Project Manager Delfino shared a few slides and images depicting work occurring in the field. PM Delfino addressed the LACF072 site, which had heavy activity in the month of November. After MSI completed the tower foundation work shifted to the shelter foundation construction. Inspection of the foundation found that #4 rebar cage was made but had to be remade using #5 rebar (a more substantial rebar). The shelter pad passed its re-inspection, and the foundation was successfully poured. The custom colored monopine and branches were delivered to the site. The Contractor's plan is to get the shelter installed and then the monopine will be set. This shelter is in market and pending a highway permit to allow transport to the site.

This concluded the report on Agenda Item C from Program Manager Delfino. There was no further discussion.

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

Operations Chair Sven Crongeyer greeted the Board and informed them that Joint Operations and Technical Committees (Joint Committees) met on November 16, 2021. Operations Chair Crongeyer stated the Joint Committee received reports on the Public Safety Broadband Network (PSBN) Round 2 Project, the LMR System, the Regional ISSI Working Group, Spectrum and Licensing Issues, and Super Bowl 56 Communications Plans. Operations Chair Crongeyer concluded by saying the Joint Committees approved meeting dates for the 2022 calendar year.



This concluded the report on Agenda Item D from Operation Chair Crongeyer. There was no further discussion.

**E. Finance Committee Chair Report – No Report**

**VII. DISCUSSION ITEMS (F-H)**

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

Program Director Chris Odenthal provided the Board the November PSBN Round 2 update. Program Director Odenthal stated that Sites 21-25 are complete. Program Director Odenthal said the issue with the Judicial Council of California (JCC) has been resolved by having the construction firm Motive Energy mobilize to finish and address all inspection items, with the expectation of site completion by the beginning of 2022.

Program Director Odenthal said that from a punch walk perspective, all other sites are complete.

Program Director Odenthal stated there are two (2) sites in the forest that are receiving power. Program Director Odenthal went on to say that these two (2) sites had previously been handed over to AT&T Corporation (AT&T), but will now be powered on by AT&T's network as they optimize those locations.

Program Director Odenthal said that from a power perspective, at the MML2 site, trenching is complete and awaiting for SCE to perform their work, pulling all conductors through the conduits up the road and concluding that work.

This concluded the update on Agenda Item F by Program Director Odenthal. There was no further discussion.

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

Technical Chair Ted Pao stated as reported last month the Technical Working Group has concluded its spectrum monitoring at selected LA-RICS sites. Technical Chair Pao went on to say there was one final review pending of the report among the Technical Working Group and the final draft is now being reviewed internally by



the County. Technical Lead Pao stated the County will publish a report based on its findings shortly.

Technical Chair Pao said that for the Authority's FCC licensing update, there have been no movements by the FCC in issuing additional LA-RICS UHF licenses. Technical Chair Pao stated that as reported last month, LA-RICS provided the County with dates that are impacted by the Authority's grant performance deadline as well as dates corresponding to the subsystems optimization and/or acceptance based on the latest accepted IMS. Technical Chair Pao said there are eight (8) applications still in pending status.

This concluded the update on Agenda Item G by Technical Lead Pao. There was no further discussion.

#### **H. Outreach Update – Sven Crongeyer**

Operations Chair Lieutenant Sven Crongeyer went on to provide the November Outreach Update.

Operations Chair Sven Crongeyer reported to the Board that in November 2021, the Authority spoke with representatives from the United States Customs and the Border Protection Agency to discuss communication plans for the Super Bowl 56. Operations Chair Crongeyer said the Authority has also been in contact with representative from the Federal Bureau of Investigation (FBI) regarding radio interoperability requirements for this event.

Operations Chair Crongeyer stated that a radio testing plan is underway for communications with the County of Los Angeles Sheriff's Department (LASD) Aero Bureau Airships (helicopters). Operations Chair Crongeyer said the Authority is currently working to establish secure audio recording to ensure that test talk groups are properly recording. Operations Chair Crongeyer stated that these recordings will allow the Authority to review and analyze test results.

Operations Chair Crongeyer informed the Board that upgrades were performed on LA-RICS equipment, installed on LASD mobile communications units, including the Station B trailer, and the Site on Wheels (SOW).



Operations Chair Crongeyer stated that as part of the UCLA migration process the UCLA Police Department continues to plan for dispatch console upgrades in order to be compatible with LA-RICS.

This concluded the report on Agenda Item H. There was no further discussion.

**I. Statement of Receipts & Disbursement for AT&T Agreement Fund for Public Safety Broadband Network (PSBN) – Susy Orellana-Curtiss**

Administrative Deputy Orellana-Curtiss presented Agenda Item I to the Board which was a report for the quarter ending on September 30, 2021, detailing the uses of the AT&T Business Agreement fund. Administrative Deputy Orellana-Curtiss stated when the Authority transferred the assets via the Asset Transfer Agreement and memorialized the AT&T Business Agreement, the Authority received a revenue which made up the AT&T Business Agreement fund. Administrative Deputy Orellana-Curtiss went on to say these funds are utilized to pay for all expenditures that were born of members, the member funded expenditures, which included the Joint Power Authority (JPA) Member funded line items, as well as the Administrative items that are not supported or allowable under the grant. Administrative Deputy Orellana-Curtiss informed the Board the report for quarter ending September 30, 2021, is in line with those expenditures the Board approved via the Adopted Budget FY 2021-22, and is within the budgeted limit of that same Adopted Budget.

This concluded the report on Agenda Item I. There was no further discussion.

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

**(DUE TO RELATED SUBJECT MATTERS JPA COUNSEL MOORE RECOMMENDED ADMINISTRATIVE MATTERS AGENDA ITEM L BE TAKEN OUT-OF-ORDER AND BE PRESENTED TOGETHER WITH AGENDA ITEM J)**

**J. FINDINGS TO CONTINUE TELECONFERENCE MEETINGS UNDER AB 361 AND RELATED ACTIONS – Truc Moore - AND -**

**L. 2022 SCHEDULE OF LA-RICS BOARD MEETINGS – Susy Orellana-Curtiss**

JPA Counsel to the Authority Truc Moore, presented Agenda Item J, Findings to Continue Teleconference Meetings under AB 361 and Related Actions.





JPA Counsel Moore stated this was the regular finding to allow the Authority to have teleconference meetings under AB 361. JPA Counsel Moore informed the Board they would be seeing this Agenda Item regularly every month on the Agenda, under Consent Items.

Board Member Alexander shared that he and JPA Counsel Moore had spoken during the week about his concerns, as well as his concerns at the last meeting when the Board was presented a meeting schedule with varied days/dates during the month. Board Member Alexander stated that for consistency and transparency the Board should be setting a set date and time to conduct the regular meetings as was done in the past where the Board meetings were held on the first Thursday of the month at 9:00 a.m., therefore, adopting a Board meeting schedule different from that with varying days is going to throw the public and the Board off that schedule. Board Member Alexander proposed maintaining the meeting schedule on the first Thursday of the month, and if the Board finds the need to meet within the 30-day requirement period, at that point the Board could schedule a Special Meeting. Board Member Alexander expressed his disagreement with JPA Counsel Moore's advice regarding the need for the Board to meet every 30 days, but also understands counsel's position.

JPA Counsel Moore thanked Board Member Alexander for his recommendation to keep the meetings as scheduled on the first Thursday of every month, and to add special meetings as needed in a given month, and stated that since Agenda Item L had the 2022 schedule, she asked the Chair to pull that item for discussion concurrent with this item as well. JPA Counsel Moore agreed with Board Member Alexander that maintaining the first Thursday of every month, for the public and Board Members who are used to the prior schedule. JPA Counsel Moore went on to say that she also agreed that for those months when there is a need to have the 30-day finding, an additional Special Meeting would be scheduled.

JPA Counsel Moore stated she would have Susy Orellana-Curtiss read what the dates would be if we were to calendar the first Thursday of the month and Special Meeting dates where needed. The Board could address Agenda Item L by continuing the item to the December 20, 2021, Special Meeting and have staff present the final proposed dates in writing to the Board; or have the dates read into the record today, and have the Board approve both Agenda Items J and L at the same time.



Board Member John Geiger stated that he endorsed the motion, if the dates Administrative Deputy Orellana-Curtiss would be reading into the record reflect the first Thursday of the month along with any needed special meeting dates, with a schedule published after the meeting as part of the findings.

Administrative Deputy Orellana-Curtiss read into the record Agenda item L the dates reflecting the first Thursday of the month for 2022, as well as three (3) instances of a Special Meeting\*:

Regular Meeting (1 <sup>st</sup> Thursday of the month)	Special Meeting* (if needed) (4 <sup>th</sup> Thursday of the month)
January 6, 2022	
February 3, 2022	
March 3, 2022	March 24, 2022
April 7, 2022	
May 5, 2022	
June 2, 2022	June 23, 2022
July 7, 2022	
August 4, 2022	
September 1, 2022	September 22, 2022
October 6, 2022	
November 3, 2022	
December 1, 2022	

JPA Counsel Moore proposed a motion for the Board’s consideration and approval:

- a) Approve Agenda Item J, Findings to Continue Teleconferencing Meeting under AB 361 and Related Actions, and
- b) Approve Agenda Item L, 2022 Schedule of LA-RICS Board Meetings as revised to include the dates read into the record by Administrative Deputy Orellana-Curtiss.

Board Member Alexander asked JPA Counsel Moore that if County Counsel changes their interpretation of AB 361, would that dispose the need for the Special Meetings? JPA Counsel Moore stated that would absolutely be the case, she would bring that back to the JPA Board, and would do the same if there was a revision to



AB 361 that clarified the 30 day rule. She would have Authority staff return to the Board with an updated meeting schedule.

Board Member Geiger motioned first, seconded by Board Member Alexander.

**Ayes 9:** Geiger, Pappas, Yanagi, Chidester, Solinsky, Alexander, Povero, Fronterotta, and Leyn.

**BOTH MOTIONS APPROVED.**

This concluded the report on Agenda Items J and L. There was no further discussion.

**K. APPROVE AMENDMENT NO. 85 TO AGREEMENT NO. LAR-RICS 007 LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM LAND MOBILE RADIO**

Alternate Chair Yanagi read into record that Agenda Item K was pulled from this Agenda.

**(DUE TO RELATED SUBJECT MATTERS JPA COUNSEL MOORE RECOMMENDED ADMINISTRATIVE MATTERS AGENDA ITEM L BE TAKEN OUT-OF-ORDER AND BE PRESENTED TOGETHER WITH AGENDA ITEM J)**

**IX. MISCELLANEOUS – NONE**

**X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD – NONE**

**XI. CLOSED SESSION REPORT**

The Board entered into Closed Session at 9:34 a.m.

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

The Board returned from Closed Session at 9:52 a.m., Counsel Truc Moore stated the Board was back in open session and the Brown Act did not require a report.



**XII. ADJOURNMENT AND NEXT MEETING:**

Alternate Chair Yanagi called for a motion to adjourn the Regular Meeting. Board Member Alexander motioned first.

The Regular Board meeting adjourned at 9:55 a.m., and the next Regular meeting will be held on January 6, 2022, at 9:00 a.m., via Microsoft Teams / Teleconference Meeting.



# BOARD OF DIRECTORS SPECIAL MEETING MINUTES

LOS ANGELES REGIONAL  
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

**Thursday, December 20, 2021 • 9:00 a.m.**  
Conducted via Microsoft Teams Meeting\*

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#### BOARD MEMBERS PRESENT:

**Anthony Marrone**, Vice-Chair, Interim Fire Chief,  
County of Los Angeles Fire Department

**Cathy Chidester**, Director,  
EMS Agency, County of Los Angeles Department of Health Services

**Brian Solinsky**, Chief of Police,  
Los Angeles Area Fire Chief's Association

**Mark Alexander**, City Manager,  
CA Contract Cities Association

**David Povero**, Chief of Police,  
City of Covina Police Department

**Mark Fronterotta**, Chief of Police,  
City of Inglewood Police Department

#### ALTERNATES FOR BOARD MEMBERS PRESENT:

**John Geiger**,  
County of Los Angeles Chief Executive Office

**Brian Yanagi**, Alternate Chair, Acting Chief,  
County of Los Angeles Sheriff's Department

#### OFFICERS PRESENT:

**Scott Edson**, LA-RICS Executive Director

**Susy Orellana-Curtiss**, LA-RICS Administrative Deputy

**Beatriz Cojulun**, LA-RICS Board Secretary

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#### BOARD MEMBERS ABSENT / VACANT:

**Vacant Seat**,  
The Los Angeles Area Fire Chiefs Association

**Brian Leyn**, Captain,  
City of Signal Hill Police Department



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

**I. CALL TO ORDER**

Alternate Chair Brian Yanagi called the Regular Meeting of the Board to order at 9:01 a.m.

**II. ANNOUNCE QUORUM – Roll Call**

Administrative Deputy Susy Orellana-Curtiss took roll and acknowledged a quorum was present.

**III. APPROVAL OF MINUTES – NONE**

There were no minutes to approve.

**IV. PUBLIC COMMENTS – NONE**

There was no public comment.

**V. CONSENT CALENDAR – (A)**

**A. FINDINGS TO CONTINUE TELECONFERENCE MEETINGS UNER AB 361 AND RELATED ACTIONS**

JPA Counsel Moore stated that unless the Board has any questions, the Board can move and approve the item on the Consent Calendar.

Board Member John Geiger motioned first, seconded by Board Member Brian Solinsky.

Ayes 8: Geiger, Forman, Yanagi, Chidester, Alexander, Povero, and Fronterotta.

**MOTION APPROVED.**

**VI. REPORTS – NONE**

**VII. DISCUSSION ITEMS (B)**

**B. Update on Coastal Commission Sites in the Land Mobile Radio System – Tanya Roth**

Deputy Program Manager Tanya Roth provided highlights on the progress of the two (2) sites remaining with coastal permitting to be completed. The report included



sites TOP-RELAY and MCI, the two (2) final sites to commence construction on the LMR program that have intertwined as reported at the November meeting.

Deputy Program Manager Roth informed the Board the scenario discussed in the November Coastal Report, in which the non-redundant items from Topanga-RELAY (TOP-RELAY) would be relocated to the MCI site, is now a very tangible reality. Deputy Program Manager Roth also stated that engineering assessments and vendor negotiations are complete. In connection with this relocation, Deputy Program Manager Roth went on to say the Land Mobile Radio (LMR) Amendment No. 85, Agenda Item C, recommends the relocation of TOP-RELAY scope to MCI. Deputy Program Manager Roth also stated the microwave only install at the construction site TOP will remain, and the Radio Frequency (RF) coverage component of TOP-RELAY will effectively relocate to MCI. Deputy Program Manager Roth also reported that upon approval of the Amendment No. 85, the Coastal Development Application for a full coastal development permit that for the TOP-RELAY site which has been troubled with design complications as reported to your Board over the past few months, will be withdrawn for review and further consideration by the Department of Regional Planning (DRP). Deputy Program Manager Roth went on to say that this would allow the Project Team to place full focus on design and permitting of MCI, which will include all non-redundant scope from TOP-RELAY and full subsystem scope from Saddle Peak (SPN). Deputy Program Manager Roth reminded the Board the very compelling features of MCI are that existing 70-foot tall tower in the coastal zone that can be permitted for the LA-RICS use as a coastal exemption.

Deputy Program Manager Roth concluded her report informing the Board that staff are in review of the draft Coastal Exemption package, which was received from Brandow and Johnson (B&J) on December 10, 2021, and the Authority remains on track with the submittal DRP before year's end.

This concluded the update on Agenda Item H by Deputy Program Manager Roth. There was no further discussion.

## **VIII. ADMINISTRATIVE MATTERS (C – D)**

### **C. APPROVE AMENDMENT NO. 85 TO AGREEMENT NO. LA-RICS 007 LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM LAND MOBILE RADIO SYSTEM**

Administrative Deputy Orellana-Curtiss, thanked the Board for allowing the Special meeting to take place and address the time sensitive Agenda Item C, LMR Amendment No. 85 to the Agreement with Motorola Solution, Inc. (MSI). Administrative Deputy Orellana-Curtiss asked the Board to consider the recommended actions before them, specifically to make those environmental



finding relating to Amendment No. 85, as detailed in Item 1a, which specifically address the scope of activities that are contemplated through the Amendment for work contemplated at site MCI, are within the scope of the activities the Board previously authorized on August 5, 2021, for the MCI site, and are within the California Environmental Quality Act (CEQA).

Administrative Deputy Orellana-Curtiss asked the Board to also approve Amendment No. 85, which includes changes to the LMR contract to contemplate the removal of certain work and the inclusion of certain work for MCI site.

- Removal of certain Phase 1 (System Design) work in the LMR System.
- Removal of certain Phase 2 (Site Construction and Site Modification) work in the LMR System.
- Removal of certain Phase 4 (LMR System Implementation) work, which removes some testing work, as well as removal of Phase 4 work as it relates to the SPN site.

Regarding the Phase 4 testing that will be removed, the Special Operations Test is being removed. The Special Operations Test was conceived as transitioning one or two Sheriff / Fire Stations to operate fully on the LA-RICS Subsystems, due to the Phase implementation approach the Authority has taken and which the Board has previously approved, the test is no longer possible. Moreover, Administrative Deputy Orellana-Curtiss stated that as agencies transition to each unique subsystem, there will be an opportunity for each agency to conduct its own operational test on each subsystem prior to their cutover. Administrative Deputy Orellana-Curtiss reported that in short, the original plan was that all subsystems would go live simultaneously, but given the change in the Contract structure and the Authority's Subsystem Acceptance, the Authority no longer has the need for the Special Operations Test.

Administrative Deputy Orellana-Curtiss reported the second test that will be removed is the Stress Test. Administrative Deputy Orellana-Curtiss informed the Board that the Authority has been operating on the LMR System via the Early Deployment System as far back as 2014. The Authority has completed real world operational tests on the LMR Core, including tests at various Rose Parades, therefore, have now determined that this test is no longer required.

Administrative Deputy Orellana-Curtiss reported that another test being considered for removal is the Aerial Test. Administrative Deputy Orellana-Curtiss stated that LA-RICS is working with the County of Los Angeles (County) Sheriff's Department (LASD) and County of Los Angeles Fire Department (LACoFD) to conduct Aerial Tests, tests that can only be performed with the assistance of LASD and LACoFD





fleets. Administrative Deputy Orellana-Curtiss went on to say that regardless whether MSI or the Authority conducts this test it would be done and facilitated through LASD and LACoFD, as such, the test will be removed and performed in-house.

Administrative Deputy Orellana-Curtiss informed the Board the final test to be removed is the Water Way Test, which is limited to half a mile of ocean water off the coast of the County and a few of lakes. Administrative Deputy Orellana-Curtiss stated the Technical and Operational teams believe there is little doubt the Water Way test would pass as there is no obstruction to the RF signal propagation over the water, there are no trees or mountains that obstruct, therefore, the test is no longer deemed necessary.

Administrative Deputy Orellana-Curtiss that additionally under Agenda Item 2d, the Authority is asking for the relocation of the work as mentioned in Deputy Program Manager Roth's report, the relocation of certain TOP-RELAY work over to the MCI site. Administrative Deputy Orellana-Curtiss went on to say that would be a cost increase of \$146,334, as well as the Authority also removing additive alternative work, which is a significant bulk of the scope work removal. These additive alternate were alternates that were included in the contract at the time of contract execution, which were options to be considered dependent on the system make-up of the membership. That is a result in reduction to the \$73,350,438 million. The Authority is also removing previously approved Change Order work that is no longer deemed necessary in the amount of \$10,497.

Administrative Deputy Orellana-Curtiss asked on behalf of the Authority to approve the overall net decrease to the Contract Sum in the total of \$75,133,830 million, as well as delegating authority to the Executive Director to execute this Amendment No. 85, that is substantially similar to the enclosure within the packet, and also provide the Executive Director with delegated authority to issue corresponding Notices to Proceed.

This concluded Agenda Item C presented by Administrative Deputy Orellana-Curtiss.

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

Ayes 8: Geiger, Forman, Yanagi, Chidester, Alexander, Povero, and Fronterotta.

**MOTION APPROVED.**

**D. DELEGATE AUTHORITY TO EXECUTIVE DIRECTOR TO NEGOTIATE, FINALIZE AND EXECUTE A RIGHT OF ENTRY AGREEMENT WITH**



## CALIFORNIA DEPARTMENT OF PARKS AND RECREATION FOR LAND MOBILE RADIO

Administrative Deputy Orellana-Curtiss presented Agenda Item D.

Administrative Deputy Orellana-Curtiss stated that before the Board was the requested for Delegated Authority to negotiate and enter into a final Right of Entry (ROE) Agreement with the California Department of Parks and Recreation (CDPR), referred to as State Parks and are the land owners at GRM, which the Authority has also previously executed a Site Access Agreement (SAA) with CDPR.

Administrative Deputy Orellana-Curtiss informed the Board the agreement before them for consideration is to allow the Department of Water and Power (DWP), the commercial utility provider, to access a portion of the parcel to perform and provide the utility that is required in order to energize the site.

Administrative Deputy Orellana-Curtiss stated that GRM is already construction complete, with the only pending item is for DWP to attain utility at the site, an activating the Authority has been pressing hard with DWP to achieve. Administrative Deputy Orellana-Curtiss went on to say the ROE will provide the first step to gain access for DWP.

Administrative Deputy Orellana-Curtiss read into the record the recommended actions:

1. Certify that the Addendum (Enclosure 2) to the certified Final Environmental Impact Report (Final EIR) and has been completed in compliance with the CEQA and reflects the independent judgment and analysis of the Authority; find that the Board of Directors for the Authority has reviewed and considered the information contained in the Addendum with the Final EIR prior to approving the project and has determined that no subsequent EIR is needed; and approve the proposed modification to existing site GRM analyzed in the Addendum.
2. Authorize the Executive Director to complete negotiations, and finalize and execute the ROE identified herein, substantially similar in form to the agreement attached hereto as Enclosure 1.

This concluded Agenda Item D presented by Administrative Deputy Orellana-Curtiss.

Board Member Alexander motioned first, seconded by Board Member Mark Fronterotta.



Ayes 8: Geiger, Forman, Yanagi, Chidester, Alexander, Povero, and Fronterotta.

**MOTION APPROVED.**

**IX. MISCELLANEOUS – NONE**

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

Board Member Alexander addressed Executive Director Edson regarding the County considering bringing back broadband access to all County residents and part of that effort would consist of the County looking at locating sites for broadband antenna. Board Member Alexander inquired if this is something the Board should be on the Agenda to discuss, in terms as to how can the Board assist the County in that effort. Executive Director Edson stated the Authority would certainly be looking into the details of that, and if nothing else, Executive Director Edson will provide an update on his Director's Report at the next meeting on January 6, 2022.

**XI. CLOSED SESSION REPORT – NONE**

**XII. ADJOURNMENT AND NEXT MEETING:**

Alternate Chair Yanagi called for a motion to adjourn the Regular Meeting. Board Member Alexander motioned first.

The Regular Board meeting adjourned at 10:18 a.m., and the next Regular meeting will be held on January 6, 2022, at 9:00 a.m., via Microsoft Teams / Teleconference Meeting.



## LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

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

SCOTT EDSON  
EXECUTIVE DIRECTOR

January 6, 2022

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

Dear Directors:

### **FINDINGS TO CONTINUE TELECONFERENCE MEETINGS UNDER AB 361 AND RELATED ACTIONS**

#### **SUBJECT**

The California Legislature passed AB 361 to enhance public access to local legislative body meetings during the COVID-19 pandemic and future applicable emergencies. Under AB 361, to continue to meet via teleconferencing, the local legislative body must adopt, by a majority vote, specific findings within 30 days of the first use of the teleconferencing meeting rules after October 1, 2021, and within every 30 days thereafter. The first Board meeting under AB 361 occurred on October 7, 2021, and the Board made its first findings under AB 361 on November 4, 2021, its second finding on December 2, 2021, and its third finding on December 20, 2021. Given the timing of the January meeting, it is time for the Board to make another finding to continue to use a telephonic meeting.

#### **RECOMMENDED ACTIONS**

It is recommended that your Board, acting on its behalf, and on behalf of the Finance, Operations and Technical Committees appointed by the Board and which are subject to the Brown Act:

1. Find, in accordance with AB 361 Section 3(e)(3), California Government Code Section 54953(e)(3), that the Board has reconsidered the circumstances of the State of Emergency due to the COVID-19 pandemic and that the State of Emergency remains active; and
2. Find, in accordance with AB 361 Section 3(e)(3), California Government Code Section 54953(e)(3), that local officials continue to recommend measures to promote social distancing.

**AGENDA ITEM C**

## **BACKGROUND**

On September 10, 2021, the Legislature passed AB 361, to enhance public access to local legislative body meetings during the COVID-19 pandemic and future applicable emergencies. The Governor signed AB 361 into law on September 16, 2021. To ensure the safety of members of the public and personnel while guaranteeing the public's right to attend and participate in meetings of local legislative bodies and in alignment with the County of Los Angeles' Health Officer's recommendations to reduce crowding indoors and to support physical distancing, the Board can continue to meet via teleconferencing, in compliance with AB 361 while we are under a State of Emergency and while State or local officials continue to recommend measures to promote physical distancing. However, the Board will need to regularly consider the circumstances of the State of Emergency to determine whether teleconferencing should continue no later than 30 days after the Board's first meeting under AB 361 (October 7, 2021), and within every thirty (30) days thereafter.

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

Under AB 361, to continue to meet via teleconferencing, the local legislative body must adopt, by a majority vote, specific findings within 30 days of the first use of the teleconferencing meeting rules after October 1, 2021, and within every 30 days thereafter. The Board held its first meeting under AB 361 on October 7, 2021, made its first findings on November 4, 2021, its second finding on December 2, 2021, and its third finding on December 20, 2021. As we approach the third 30-day deadline and given the timing of the February 2022 Board meeting, the Board needs to make the necessary findings. The Governor's declaration of a statewide emergency is still in effect, and the County of Los Angeles' Public Health Officer still currently recommends physical distancing. Under AB 361, it is appropriate for the Board to continue with a teleconference.

## **FACTS AND PROVISIONS/LEGAL REQUIREMENT**

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

## **CONCLUSION**

The Executive Director recommends the Board make the recommended findings.

Respectfully submitted,



SCOTT EDSON  
EXECUTIVE DIRECTOR

MBC

c: Counsel to the Authority

# EXECUTIVE SUMMARY

JANUARY 6, 2022

## LTE UPDATE

- PSBN Round 2 – Sites 1-25 are complete. Closeout materials for the five (5) sites constructed under AT&T funding are assembled and are under review by FirstNet/AT&T Corporation (AT&T) for acceptance. There remains final power and generator commissioning at a few sites.

## LMR UPDATE

- Phase 2
  - ✓ Building Permit(s) Total site count remains at fifty-eight (58) sites for the LA-RICS LMR Network. Topanga Peak-RELAY (TOP-RELAY) has been submitted for consideration to the County of Los Angeles (County) Department of Regional Planning (DPR) on behalf of the California Coastal Commission. The TOP-RELAY site non-redundant Radio Frequency (RF) Equipment is also being considered to co-locate at the MCI location, which is where the Saddle Peak (SPN) site equipment will be installed.
  - ✓ Motorola Solutions Inc. (MSI) and the Authority have agreed to use the September 14, 2021, Data Date Integrated Master Schedule (IMS) for the baseline schedule. However, the Program Teams have met to discuss that the finish date of the Program will likely change and may be pulled in, specifically due to the TOP-RELAY equipment moving to MCI. The Ph.4b scope (testing work) requires additional scheduling effort to make that final determination, as to whether, or not the change will require a schedule re-baseline.
  - ✓ Below is a breakdown of the current site progress for Phase 2 and Phase 4a work scope:
    - MSI is nearing Phase 2 and Phase 4a completion at several UASI 19' sites. MSI has indicated that all sites including Catalina Island will be Phase 2 substantially completed by the end of the year 2021. The County of Los Angeles Fire Station 072 (LACF072) is currently behind schedule by approximately (1) month; largely due to the late delivery of the communications shelter, which is planned for delivery/ install on December 29, 2021. MSI was informed by its' material supplier, (Thermobond) that Covid-19 has created delays in their supply-chain and labor forces, and overall operational impacts. At the Green Mountain site (GRM), the utility provider Los Angeles Department of Water and Power (LADWP) still needs to provide a utility power plan to LA-RICS. The LADWP Management, Real Estate representatives, and Mayor's office representatives met on Friday, November 19, 2021, to discuss steps forward to bring the requested utility service to completion. LA-RICS is undertaking the environmental review (CEQA and NEPA) while also

# EXECUTIVE SUMMARY

JANUARY 6, 2022

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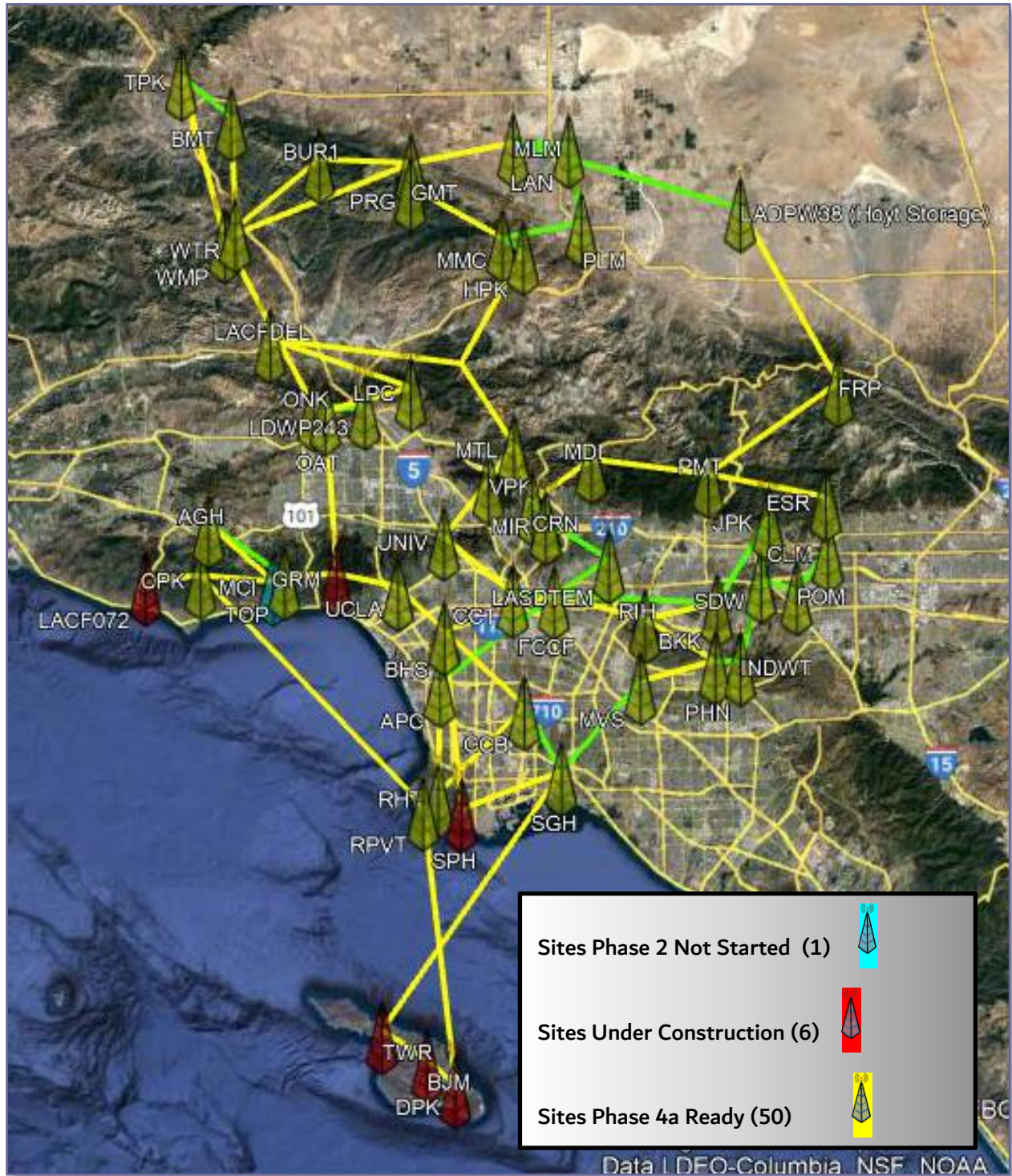
shepherding the Right of Entry (ROE) Agreement between California State Parks, City of Los Angeles (City) Department of Water and Power (LADWP), and the Authority. At this time LA-RICS and the Authority will investigate the use of a roll-up generator to provide interim power to allow for the completion of the site. The Burnt Peak (BUR1) site remains challenged for normal utility power as well, since MSI informed the Authority on November 16, 2021, that MSI will no longer support the plan to utilize the emergency generator for use as prime power. Since that time, the Teams have determined to use a roll-up generator at BUR1 to complete the Ph.4a and Ph.4b scope. According to Southern California Edison (SCE) the “Microgrid” power solution is still on-track for use in approximately 17 months.

- MCI, the replacement site for SPN and the non-redundant RF equipment location for the TOP-RELAY equipment, will be the final site constructed on the Program. The Team has taken aim at early 3<sup>rd</sup> quarter 2022 for completion of the site.
- Phase 4 – Optimization and Closeout
  - ✓ There are eleven (11) cells on the air.
  - ✓ Cutover plans are currently being further developed between LA-RICS and MSI. The cutover plans will be managed to ensure that all cutovers occur as planned so that the IMS testing dates are met. Stakeholders and prospective users are encouraged to contact LA-RICS representatives with their agency cutover plans to ensure smooth transitions on to the LA-RICS Network.
  - ✓ Discussions with Inter Subsystem Interface (ISSI) and the State of California and the City Mayor’s Office have focused on interoperability beyond ISSI using Critical Connect. The State of California is already using the early use system and is looking to partner with LA-RICS for service within the County borders, once the system is fully completed.
  - ✓ ISSI connections have been successfully tested and used on multiple occasions including talk groups established with Torrance and Inglewood utilizing LA-RICS along with the Interagency Communications Interoperability (ICI) Network.
  - ✓ Over twenty-three (23) sites have undergone the Phase 4 audit and the corresponding closeout books were submitted to LA-RICS for record.
  - ✓ MSI will deliver the first subsystem Narrowband Mobile Data Network (NMDN) Phase1 starting on August 4, 2022.

# EXECUTIVE SUMMARY

JANUARY 6, 2022

## LMR SITES





# EXECUTIVE SUMMARY

JANUARY 6, 2022

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	\$ 35,000,030	\$-	5/31/21
UASI 19'	\$35,000,000	\$34,936,591*	\$ 11,138,886	\$63,409	5/31/22
UASI 21'	\$2,000,000			\$2,000,000	3/31/22
BTOP	\$149,608,227	\$149,608,227	\$149,608,227	\$ 0	9/30/20

\* Costs incurred, NTP Issued and / or line item included in approved Spending Plan.

# 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. All sites in both the LMR and LTE augmentation 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 Project 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. 116

January 6, 2022

Submitted December 29, 2021

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**AGEND ITEM E**

# LTE UPDATES

## Operations/Governance

- The LA-RICS Operations team is holding meetings regularly to focus on the following:
  1. Manage network migration to LA-RICS to meet milestone cut-over dates established in the approved IMS.
  2. Ensure internal LA-RICS operational aspects are in place.
  3. Develop and Implement Policies as determined by the operations contributors.

## Special Events

- No new activity.

## LTE Round 2 Updates

- December 2021 saw progress in bringing closure to the POM2 site and obtaining building final inspections for POLA1 and POLA2. Regarding POM2, the JCC has made the determination that the LA-RICS contractor must mechanically attach the antenna sled mounts despite the risk of future leaks on the new roof system and considering the high potential of encountering hazardous materials during the drilling through roof activity. The Authority and the Contractor met on 11/24/2021 to further discuss resolution plans. Regarding the POLA1 and POLA2 final building inspection, the Architect of Record (AOR) needed to redesignate an individual since the person who was originally named left the firm. Once this administrative task is completed, the AOR's new designee will provide the City of Los Angeles Department of Building and Safety (LADBS) with signed structural observation reports to confirm that the installation of the tower foundations were installed per plans and specifications. The POLB1 site was not constructed by LA-RICS. The design work for POLB1 and construction plans were delivered to FirstNet AT&T.
- There are no safety issues to report on in this period.
- There are no labor compliance issues to report in this period.
- There are no environmental compliance issues to report in this period.



# LMR UPDATES

## Environmental Update

- Jacobs continued the full-time MMRP monitoring effort in this period as several ground disturbing activities are still taking place during Ph.2 work. Motorola has not substantially improved its ability to forecast work that requires advanced planning measures, nor properly given advanced landlord notification. While blatant mis-scheduling of work has become less frequent, it has not yet been eradicated from the Ph.2 effort, which directly impacts the MMRP efforts and workflow, since monitors are required onsite for certain work. An example of the issue in December 2021 was when MSI did not indicate a concrete pour on a Catalina Island site in the weekly notification, but performed the work anyways causing a scrambled attempt to get a monitor to the site. Motorola has received formal correspondence from LA-RICS demanding that MSI discontinue late cancelations, no shows, inaccurate work plans and early dismissal of work so that site monitors aren't misdirected and so that work proceeds on a continual, uninterrupted basis in accordance with the IMS and environmental monitoring requirements.
- The Project Team has accomplished Worker Environmental Awareness Program (WEAP) training for 1,688 persons as of December 10, 2021.

## Permitting Support

- There are two (2) permits yet to be received, one (1) of the sites TOP RELAY is under review by the Department of Regional Planning (TOPRELAY) and the other site, (MCI) has yet to be submitted since it is still in the design phase. Fifty-nine (59) 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, SPH, SPN, TOPRELAY, TPK, TWR, UCLA, UNIV, VPK, WMP, WTR).

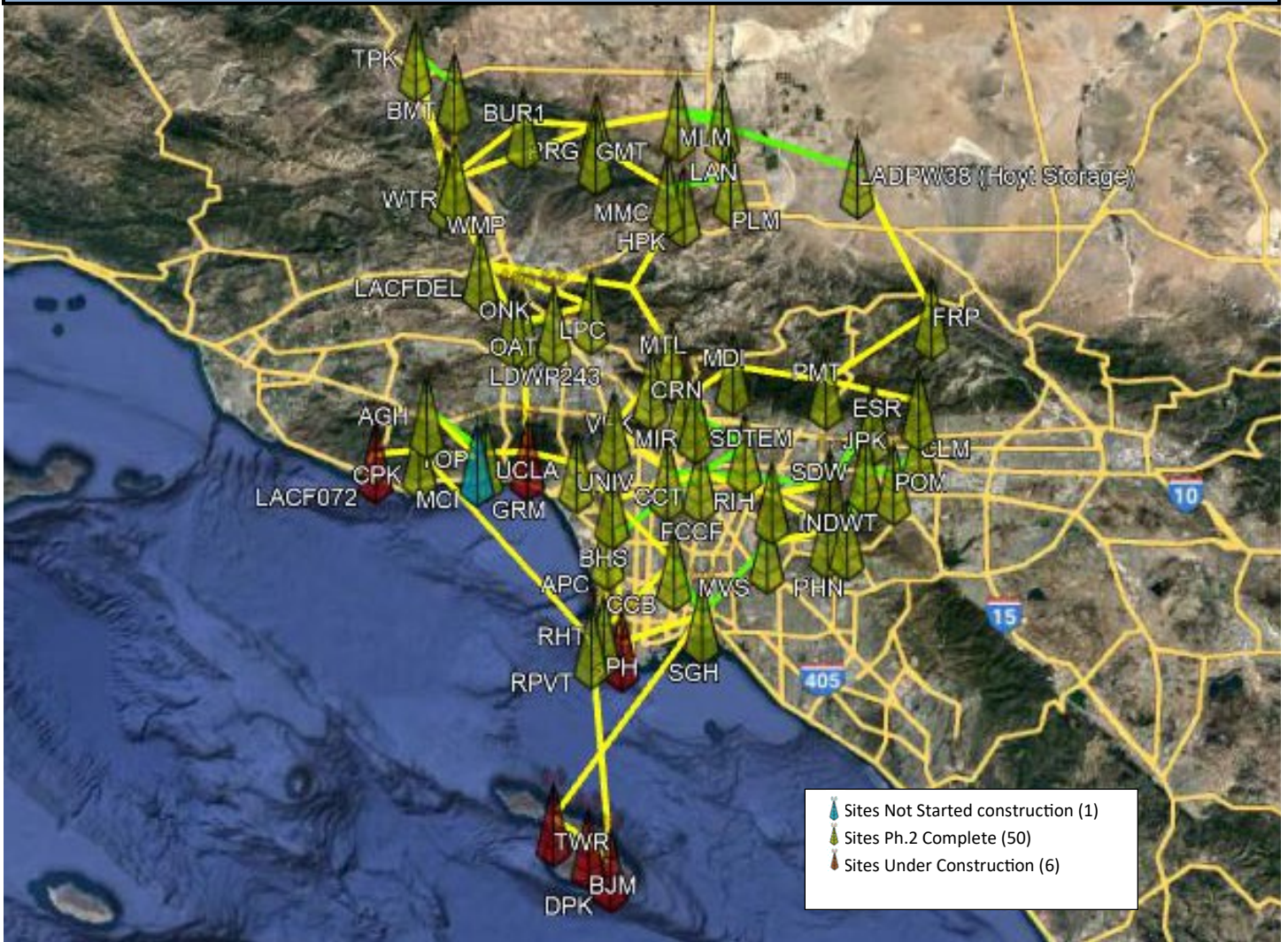
## Site/Civil

- All site access agreements (SAA's) are completed and have been transmitted to MSI.
- 58 sites in Network, 53 sites completed through Ph.4a.
- Only 2 sites remain to start, MCI and the installation of TOP RELAY shelter, generator, and RF equipment.
- Over 49 sites have normal power on and are optimized at site level by MSI.
- There are no safety issues to report on in this period.
- The "Project Schedule" with the data date of September 14th, 2021 (version 2) is the current operative schedule. The finish date shown on the 9/14/2021DD IMS has a Final System Acceptance date as October 10<sup>th</sup>, 2023. The Authority maintains that the finish date of the Program may be sooner than forecasted by MSI, particularly if the review and approval of the recently submitted application to the Department of Regional Planning for the site MCI occurs quickly. MSI has provided a response to RFQ No. 077 for the incremental increased cost to bring the non-redundant TOP RELAY equipment to MCI, which was approved by the JPA Board during a special meeting session on 12/20/2021. In addition, MSI has provided predictive coverage maps of the Santa Monica Mountains region so that the Authority would better understand how coverage may be affected if the equipment relocation is carried out, and the technical leads at MSI and LA-RICS found the move to be viable and appropriate. Significant progress has been made at twelve (12) UASI 19 sites and MSI has committed to complete all Ph.2 work at the Catalina Island sites by the end of this year 2021. Submission of Ph.2 close-out documentation continues to be a struggle for MSI to complete. Formal correspondence has been sent to MSI to request that all outstanding close-out materials are submitted immediately for past due items. MSI has submitted schedule updates that unilaterally extend the Program completion date beyond the approved finish date in the accepted baseline IMS. The Authority provided a review of each proposed change by MSI and MSI is yet to respond as to how it will modify its work plans to maintain unapproved activity duration extensions. Per Agreement No.007, Exhibit A, Paragraph 1.4.15.7 with regards to monthly IMS update submissions, the parties shall keep the dates from last approved schedule which is the 9/14/2021DD IMS completing on 10/10/2023. The Authority and MSI anticipate that the MCI work will likely result in a time savings on the baseline schedule, thus a re-baseline will likely be submitted by MSI in January of 2022 to capture the changes and to seek approval of such from the Authority.

## Network

- Frequency usage, narrow-banding, Agency cut-over process, and cut-over duration remain focal items for the LMR Program Ph.4 Teams. All forecasted dates have been forwarded to Motorola for IMS updates, which are included in the 7/13/2021DD IMS as well as the updated versions that succeeded it, including the approved IMS 9/14/2021DD. System interference on Ch. 16, is still being investigated by the Sheriff's Department and ISD along with the technical leads from the LA-RICS Project Team. The coordination between LASD, MSI, and LA-RICS is critical to ensure that frequencies are available for testing and operating the Analog Conventional System (ACVRS) particularly. In July 2021 the ISSI connection to the ICI system was again successfully tested, connecting South Bay ICI users with LA-RICS during an event at SoFi Stadium as well as other successful tests since that time. MSI has made considerable progress on the turn-up of 700Mhz cells for optimization and have reported that they are on schedule for the turnover of the first subsystem, NMDN Ph.1, on August 4<sup>th</sup>, 2022.
- The LMR Site Map is shown below.

# LMR SITE MAP





**LOS ANGELES REGIONAL INTEROPERABLE  
COMMUNICATIONS SYSTEM AUTHORITY**

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

SCOTT EDSON  
EXECUTIVE DIRECTOR

January 6, 2022

To: LA-RICS Authority Board of Directors

From: Scott Edson   
Executive Director

**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:mbc

Enclosure

**AGENDA ITEM H**

## LA-RICS PSBN SITE DEPLOYMENT

Week of 12/27/2021

Site ID	Type	GC	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
<b>MML2</b>	Colo	MSI	NA	NA	5/21/2020	Complete	7/31/2020	NA	11/20/2020	11/27/2020	11/30/2020	11/30/2020	2/1/2022	All Power work is complete. Waiting for final inspection from SCE and power on.
<b>MNTBLPD</b>	Pole	Diversified	NA	NA	9/11/2020	Complete	9/28/2020	8/21/2020	10/16/2020	11/27/2020	11/30/2020	11/30/2020	8/11/2021	Site Complete
<b>POLA1</b>	Pole	Jitney	7/30/2020	CP = Approved HEP = Approved	7/31/2020	Complete	8/10/2020	8/29/2020	8/29/2020	2/5/2021	10/6/2020	3/5/2021	9/15/2021	Site Complete
<b>POLA2</b>	Pole	Jitney	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	4/19/2021	7/30/2021	LA-RICS scope complete. Site waiting for Fenix Terminal and AT&T to finalize power and fiber agreement
<b>POM2</b>	Roof	Motive	NA	NA	12/23/2020	Complete	2/1/2021	NA	NA	3/12/2021	6/18/2021	10/8/2021	2/1/2022	Final mounting to building steel required based on final inspection. Work to begin early January pending JCC approval.
<b>POLB1</b>	Pole	Motive	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	No activity required by LA-RICS

Legend	
	Completed
	Forecasted - Scheduled





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SCOTT EDSON  
EXECUTIVE DIRECTOR

January 6, 2022

To: LA-RICS Authority Board of Directors  
From: Scott Edson  
Executive Director

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

The purpose of this discussion item is to update your Board on the radio spectrum issue for the Land Mobile Radio System (LMR) system as well as frequency licensing issues impacting the LMR deployment.

TP:mbc

**AGENDA ITEM I**



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SCOTT EDSON  
EXECUTIVE DIRECTOR

January 6, 2022

To: LA-RICS Authority Board of Directors

From: Scott Edson   
Executive Director

**UPDATE ON COASTAL COMMISSION SITES  
IN THE LAND MOBILE RADIO SYSTEM**

The purpose of this discussion item is to provide an update on key milestones for the Land Mobile Radio (LMR) System sites within the Coastal Zone.

With the approval of Amendment 85 by the Board at the Special Meeting on December 2, 2021, Topanga-RELAY (TOP-RELAY) was effectively removed from the LMR System leaving MCI at the final remaining site in the Coastal Zone to start construction.

As reported to the Board over the last several months, forecast date for the Coastal Exemption Permit Submittal to the Department of Regional Planning (DRP) was targeted before year-end. Staff are pleased to report that the team beat that projection and the submittal package was uploaded to the DRP's online portal, Epic LA on Wednesday, December 22, 2021. The efficient manner in which the MCI site has progressed so far is a testament to the quality work-product and engagement from the contracted vendor, Brandow and Johnston (B&J) and the true partnership that the landowner, Saddle Peak (SPN) Communications, a private entity, has demonstrated. Staff and B&J now eagerly await comment from DRP to progress the application through the vetting process.

TR:mbc

**AGENDA ITEM J**



# LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

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SCOTT EDSON  
EXECUTIVE DIRECTOR

January 6, 2022

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
U.S. Department of Homeland Security (DHS) Office of Intelligence and Analysis (I&A), in collaboration with Cyber Mission Center: Foreign Malign Influence Threats Collection Support Primer (CSP) Webinar Series	December 1, 2021
2021 FirstNet Superusers Group Monthly Meeting	December 14, 2021
International Association of Chiefs of Police Communications (IAPC) Communications and Technology Committee – Monthly Meeting	December 15, 2021
National Security Agency (NSA) Government Affairs Monthly Meeting	December 16, 2021
LA-RICS - Law Enforcement Mobile Computing Industry Vision (Redondo Beach, Manhattan Beach, and Hawthorne)	December 16, 2021
International Public Safety Association (IPSA) Board of Directors Meeting (IPSA) - Finance Committee Meeting	December 16, 2021

The Executive Director attended several association meetings related to technology, communications, and public safety.

Authority Staff worked with the Los Angeles County Sheriff's Department's (LASD) Emergency Operations Bureau (EOB) staff and Pasadena Police Department representatives to prepare a communications plan for the 2022 Rose Bowl and Rose

**AGENDA ITEM K**

Parade. The plan will be shared with public safety agencies involved with Rose Bowl and Rose Parade security. A newly constructed LA-RICS Radio Site provides excellent coverage to the area of operations.

Authority staff met weekly to discuss new outreach opportunities and followed up on those in progress.

Authority staff met with representatives from the City of Los Angeles Police Department in an ongoing effort to discuss the planned ISSI connection.

The Executive Director is a member of the IACP Communications and Technology Committee and attends monthly meetings to stay current on communications technology, policy and procedures.

A rough draft Memorandum of Understanding between LA-RICS and the Hacienda La Puente Unified School District (HLPUSD) has been sent to HLPUSD for review. The purpose of the MOU is to prepare their agency for radio testing and possible future onboarding.

A radio testing plan with the LASD's Aero Bureau is currently in development awaiting radio programming. The LA-RICS voice recorder system must first be made operational so that the testing can be recorded. LA-RICS plans to conduct Aero Bureau testing in 2022.

Super Bowl 56 planning continues for LA-RICS participating agencies. LASD's Radio Services staff are assisting by providing custom programmed portable radios for the event. LA-RICS staff has also been coordinating communications plans with staff from the U.S. Customs and Border Protection Agency and the Los Angeles County and City Fire Departments.

SC:mbc



## LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

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SCOTT EDSON  
EXECUTIVE DIRECTOR

January 6, 2021

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

Dear Directors:

### **APPROVE AMENDMENT NO. 86 TO AGREEMENT NO. LA-RICS 007 LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM LAND MOBILE RADIO SYSTEM**

#### **SUBJECT**

Board approval is requested to authorize the Executive Director to execute Amendment No. 86 to Agreement No. LA-RICS 007 (Agreement) to incorporate certain Change Orders for Green Mountain (GRM) and Pine Mountain (PMT) as further described in this Board Letter resulting in an increase to the Maximum Contract Sum in an amount of \$11,438 and to delegate authority to the Executive Director to execute one or more future Amendments for Change Orders in an aggregate amount not-to-exceed \$20,000, without going to the Oversight Committee, to address time sensitive road work at sites caused by recent inclement weather conditions.

#### **RECOMMENDED ACTIONS**

It is recommended that your Board:

1. Make the following findings:
  - a. Find that (a) approval of Amendment No. 86 to contemplate certain Change Orders at the Pine Mountain (PMT) site, related to road maintenance work, and at the Green Mountain (GRM) site related to surveying for power easement, are 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 change to the project at these

**AGENDA ITEM L**

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.

2. Approve Amendment No. 86 to Agreement No. LA-RICS 007 for an LMR System with Motorola Solutions, Inc. (MSI), which revises the Agreement to incorporate certain LMR Change Orders as further described in this Board Letter for a cost increase in the amount of \$11,438.
3. Authorize increase to the Maximum Contract Sum in an amount of \$11,438 when taking the recommended actions into consideration from \$214,667,802 to \$214,679,240.
4. Delegate authority to the Executive Director to execute one or more future Amendments and Notices to Proceed for time sensitive Change Orders related to road work at sites impacted by recent inclement weather conditions for an aggregate not-to-exceed amount of \$20,000 without going to the Oversight Committee. In the event your Board approves this delegation, the Executive Director will report back if any Amendments were processed and the value of any such Amendments.
5. Delegate authority to the Executive Director to execute Amendment No. 86, in substantially similar form to the enclosed Amendment (Enclosure).
6. Allow for the issuance of one or more Notices to Proceed for the Work contemplated in Amendment No. 86, as may be necessary.

### **BACKGROUND**

As construction continues to progress on the LMR project, approval of certain Change Orders 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 for consideration contemplate certain LMR Change Orders deemed necessary to progress construction activities.

### **PURPOSE/JUSTIFICATION OF RECOMMENDED ACTIONS**

Approval of the recommended actions will authorize the Executive Director to execute Amendment No. 86 to incorporate certain Change Orders as further described in this Board Letter, all actions resulting in an increase to the Maximum Contract Sum by \$11,438.

It is necessary to incorporate a change order related to surveying at the Green Mountain (GRM) site in the amount of \$6,197. The work will allow MSI to take a topographical survey and provide a legal description for power easement at this site.

Additionally, with respect to the Change Order at the Pine Mountain (PMT) site in the amount of \$5,241, it is necessary to remove impediments to the road caused by recent inclement weather conditions, which will allow MSI to restore safe access and passage to the road. Pursuant to the Agreement, the Authority is responsible for site accessibility, additionally, this work is required for construction activities to timely continue at this site.

Further, in connection with completion of UHF spectrum fingerprinting and noise floor monitoring, it is necessary to provide DTVRS UHF information only coverage testing due to increases in noise levels in certain areas, which is reflected as a no cost Change Order in Amendment No. 86.

Lastly, the Authority is requesting authority be delegated to the Executive Director to execute one or more future Amendments for time sensitive Change Orders, for an aggregate not-to-exceed amount of \$20,000, related to road work at sites caused by inclement weather conditions. Should your Board authorize the delegation it will allow the Executive Director to immediately approve work that may be needed in light of recent weather conditions, in particular at mountain sites. This will ensure construction activities continue in a timely matter and will mitigate potential weather delays.

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. 86 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, and Jacobs 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. 86 will result in an increase to the Maximum Contract Sum by \$11,438 from \$214,667,802 to \$214,679,240. The additional work contemplated in Amendment No. 86 in the amount of \$11,438 shall be fully reimbursed by the Urban Areas Security Initiative (UASI) 19/UASI 21 grants, dependent on the timing of completion of work.

## **ENVIRONMENTAL DOCUMENTATION**

The environmental impacts of the project at GRM and PMT sites contemplated in Amendment No. 86 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 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 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.

Upon the Board's approval of the recommended actions for this Amendment No. 86, the Authority will file a Notice of Determination (NOD) for GRM and PMT sites 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

JA

Enclosure

cc: Counsel to the Authority



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

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**RECITALS**

This Amendment Number Eighty-Six (together with all exhibits, attachments, and schedules hereto, "Amendment No. 86") is entered into by and between the Los Angeles Regional Interoperable Communications System Authority ("Authority") and Motorola Solutions, Inc. ("Contractor"), effective as of January \_\_\_\_\_, 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 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.
- f. 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.

- g. 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 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 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 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 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 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 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 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 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 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 Amendment No. 52 into consideration; and (d) make other certain changes as set forth in Amendment No. 52.

The Agreement has been previously amended in Amendment Number Fifty-Three, effective February 11, 2021, to make changes necessary to (a) incorporate certain LMR Change Order Modifications as further described in 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 Amendment No. 53 into consideration; and (c) make other certain changes as set forth in Amendment No. 53.

The Agreement has been previously amended in Amendment Number Fifty-Four, effective February 18, 2021, to make changes necessary to (a) reflect a reconciliation related to the Leased Fiber Link between FCCF and PLM for a cost decrease in the amount of \$12,360; (b) incorporate certain LMR Change Order Modifications as further described in Amendment No. 54 for a net cost increase in the amount of \$138,707; (c) increase the Maximum Contract Sum by \$126,347 from \$290,946,953 to \$291,073,300 when taking the actions contemplated in Amendment No. 54 into consideration; and (d) make other certain changes as set forth in Amendment No. 54.

The Agreement has been previously amended in Amendment Number Fifty-Five, effective February 18, 2021, to make changes necessary to (a) incorporate certain LMR Change Order Modifications related to the Outdoor Power System and Equipment at Topanga Peak (TOP) for a cost increase in an amount of \$196,126; (b) increase the Maximum Contract Sum by an amount of \$196,126 from \$291,073,300 to \$291,269,426 when taking the actions contemplated in Amendment No. 55 into consideration; and (c) make other certain changes as set forth in Amendment No. 55.

The Agreement has been previously amended in Amendment Number Fifty-Six, effective March 5, 2021, to make changes necessary to (a) reflect a reconciliation to remove five (5) 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 decrease in the amount of \$3,645,399; (b) incorporate certain LMR Change Order Modifications related to the Biota Reports Equipment at Topanga Peak (TOP) for a cost increase in an amount of \$13,972; (c) decrease the Maximum Contract Sum by an amount of \$3,631,427 from \$291,269,426 to \$287,637,999 when taking the actions contemplated in Amendment No. 56 into consideration; and (d) make other certain changes as set forth in Amendment No. 56.

The Agreement has been previously amended in Amendment Number Fifty-Seven, effective March 11, 2021, to (a) incorporate (a) incorporate a LMR Change Order Modification related to the Removal of a Subgrade Concrete Structure at Castro Peak (CPK) for a cost increase in an amount of \$8,566; (c) increase the Maximum Contract Sum by an amount of \$8,566 from \$287,637,999 to \$287,646,565 when taking the action contemplated in Amendment No. 57 into consideration; and (d) make other certain changes as set forth in Amendment No. 57.

The Agreement has been previously amended in Amendment Number Fifty-Eight, effective April 2, 2021, to (a) reflect a reconciliation of a modification to the scope of

Phase 2 (Site Construction and Site Modification) for one (1) LMR System Site Universal Studios (UNIV) for a cost decrease in the amount of \$57,167; (b) incorporate a LMR Change Order Modification for the UNIV site for a cost increase in an amount of \$61,668; (c) increase the Maximum Contract Sum by \$4,502 from \$287,646,565 to \$287,651,067 when taking the actions contemplated in Amendment No. 58 into consideration; and (c) make other certain changes as set forth in Amendment No. 58.

The Agreement has been previously amended in Amendment Number Fifty-Nine, effective May 14, 2021, to (a) reflect a reconciliation to remove a LMR Change Order Modification for the MTL2 site related to road access for a cost decrease in an amount of \$260,007; (b) incorporate certain LMR Change Order Modifications as further described in Amendment No. 59 for a net cost increase in the amount of \$16,130; (c) decrease the Maximum Contract Sum by \$243,877 from \$287,651,067 to \$287,407,190 when taking the actions contemplated in Amendment No. 59 into consideration; and (d) make other certain changes as set forth in Amendment No. 59.

The Agreement has been previously amended unilaterally in Amendment Number Sixty – Unilateral Amendment No. 1, issued May 18, 2021, to make changes necessary to (a) incorporate change orders for the DPK, FRP, MIR and MTL2 sites regarding utility power work and the removal of an existing tower as further described in Unilateral Amendment No. 1 for a not to exceed cost increase in the amount of \$39,866 to the Maximum Contract Sum; (b) increase the Maximum Contract Sum by \$39,866 from \$287,407,190 to \$287,447,056 for the Work contemplated in Unilateral Amendment No. 1; and (c) make other certain changes as set forth in Unilateral Amendment No. 1.

The Agreement has been previously amended unilaterally in Amendment Number Sixty-One – Unilateral Amendment No. 2, issued June 29, 2021, (a) incorporate a change order for the RPVT site for the removal of an extensive amount of concrete debris as further described in Unilateral Amendment No. 2 for a not to exceed cost increase in the amount of \$257,862 to the Maximum Contract Sum; (b) increase the Maximum Contract Sum by \$257,862 from \$287,447,056 to \$287,704,918 for the Work contemplated in Unilateral Amendment No. 2; and (c) make other certain changes as set forth in Unilateral Amendment No. 2.

The Agreement has been previously amended unilaterally in Amendment Number Sixty-Two – Unilateral Amendment No. 3, issued July 13, 2021, (a) incorporate a change order for the East Sunset Ridge (ESR) site to condition and blade the access road as further described in Unilateral Amendment No. 3 for a not to exceed cost increase in the amount of \$14,205 to the Maximum Contract Sum; (b) increase the Maximum Contract Sum by \$14,205 from \$287,704,918 to \$287,719,123 for the Work contemplated in Unilateral Amendment No. 3; and (c) make other certain changes as set forth in Unilateral Amendment No. 3.

The Agreement has been previously amended in Amendment Number Sixty-Three, issued July 20, 2021, to (a) incorporate certain LMR Change Order Modifications as further described in Amendment No. 63 for a cost increase in the amount of \$10,788; (b) increase the Maximum Contract Sum by \$10,788 from \$287,719,123 to

\$287,729,911, when taking the actions contemplated in Amendment No. 63 into consideration; and (d) make other certain changes as set forth in Amendment No. 63.

The Agreement has been previously amended in Amendment Number Sixty-Four, issued July 30, 2021, to (a) incorporate a change order for the Tower Peak (TWR) site related to a Survey for SCE Conveyance as further described in Amendment No. 64 for a cost increase in the amount of \$8,106; (b) increase the Maximum Contract Sum by \$8,106 from \$287,729,911 to \$287,738,017, when taking the actions contemplated in Amendment No. 64 into consideration; and (c) make other certain changes as set forth in Amendment No. 64.

The Agreement has been previously amended unilaterally in Amendment Number Sixty-Five – Unilateral Amendment Number Four, issued August 12, 2021, to (a) reconcile Phase 2 Work for the San Pedro Hill (SPH) site reflected in a Change Order Modification as further described in Unilateral Amendment No. 4 for a not to exceed cost increase in the amount of \$945,937; (b) increase the Maximum Contract Sum by \$945,937 from \$287,738,017 to \$288,683,954, for the Work contemplated in Unilateral Amendment No. 4; and (c) make other certain changes as set forth in Unilateral Amendment No. 4.

The Agreement has been previously amended unilaterally in Amendment Number Sixty-Six – Unilateral Amendment Number Five, issued August 19, 2021, to (a) incorporate a certain LMR change order for the Magic Mountain Link (MML) site related to additional power utility work as further described in Unilateral Amendment No. 5 for a cost increase in the amount of \$104,344; (b) increase the Maximum Contract Sum by \$104,344 from \$288,683,954 to \$288,788,298, for the Work contemplated in Unilateral Amendment No. 5; and (c) make other certain changes as set forth in Unilateral Amendment No. 5.

The Agreement has been previously amended unilaterally in Amendment Number Sixty-Seven – Unilateral Amendment Number Six, issued, August 19, 2021, to (a) incorporate a certain LMR change order for the Black Jack Peak (BJM) site related to rock coring for caissons which includes additional tower foundation drilling as further described in Unilateral Amendment No. 6 for a cost increase in the amount of \$60,220; (b) increase the Maximum Contract Sum by \$60,220 from \$288,788,298 to \$288,848,518, for the Work contemplated in Unilateral Amendment No. 6; and (c) make other certain changes as set forth in Unilateral Amendment No. 6.

The Agreement has been previously amended unilaterally in Amendment Number Sixty-Eight – Unilateral Amendment Number Seven, issued, August 19, 2021, to (a) incorporate a certain LMR change order for the Castro Peak (CPK) site related to rock coring for caissons which includes additional tower foundation drilling as further described in Unilateral Amendment No. 7 for a cost increase in the amount of \$78,061; (b) increase the Maximum Contract Sum by \$78,061 from \$288,848,518 to \$288,926,579, for the Work contemplated in Unilateral Amendment No. 7; and (c) make other certain changes as set forth in Unilateral Amendment No. 7.

The Agreement has been previously amended unilaterally in Amendment Number Sixty-Nine – Unilateral Amendment Number Eight, issued, August 19, 2021, to (a)

incorporate a certain LMR change order for the Dakin Peak (DPK) site related to rock coring for caissons which includes additional tower foundation drilling as further described in Unilateral Amendment No. 8 for a cost increase in the amount of \$66,682; (b) increase the Maximum Contract Sum by \$66,682 from \$288,926,579 to \$288,993,261, for the Work contemplated in Unilateral Amendment No. 8; and (c) make other certain changes as set forth in Unilateral Amendment No. 8.

The Agreement has been previously amended unilaterally in Amendment Number Seventy – Unilateral Amendment Number Nine, issued, August 19, 2021, to (a) incorporate a certain LMR change order for the Green Mountain (GRM) site related to rock coring for caissons which includes additional tower foundation drilling as further described in Unilateral Amendment No. 9 for a cost increase in the amount of \$31,320; (b) increase the Maximum Contract Sum by \$31,320 from \$288,993,261 to \$289,024,581, for the Work contemplated in Unilateral Amendment No. 9; and (c) make other certain changes as set forth in Unilateral Amendment No. 9.

The Agreement has been previously amended unilaterally in Amendment Number Seventy-One – Unilateral Amendment Number Ten, issued, August 19, 2021, to (a) incorporate a certain LMR change order for the Los Angeles County Fire Station 072 (LACF072) site related to rock coring for caissons which includes additional tower foundation drilling as further described in Unilateral Amendment No. 10 for a cost increase in the amount of \$3,367; (b) increase the Maximum Contract Sum by \$3,367 from \$289,024,581 to \$289,027,948, for the Work contemplated in Unilateral Amendment No. 10; and (c) make other certain changes as set forth in Unilateral Amendment No. 10.

The Agreement has been previously amended unilaterally in Amendment Number Seventy-Two – Unilateral Amendment Number Eleven, issued, August 19, 2021, to (a) incorporate a certain LMR change order for the Rancho Palos Verdes (RPVT) site related to rock coring for caissons which includes additional tower foundation drilling as further described in Unilateral Amendment No. 11 for a cost increase in the amount of \$8,044; (b) increase the Maximum Contract Sum by \$8,044 from \$289,027,948 to \$289,035,992, for the Work contemplated in Unilateral Amendment No. 11; and (c) make other certain changes as set forth in Unilateral Amendment No. 11.

The Agreement has been previously amended unilaterally in Amendment Number Seventy-Three – Unilateral Amendment Number Twelve, issued, August 19, 2021, to (a) incorporate a certain LMR change order for the Sand Pedro Hill (SPH) site related to rock coring for caissons which includes additional tower foundation drilling as further described in Unilateral Amendment No. 12 for a cost increase in the amount of \$7,761; (b) increase the Maximum Contract Sum by \$7,761 from \$289,035,992 to \$289,043,753, for the Work contemplated in Unilateral Amendment No. 12; and (c) make other certain changes as set forth in Unilateral Amendment No. 12.

The Agreement has been previously amended unilaterally in Amendment Number Seventy-Four – Unilateral Amendment Number Thirteen, issued, August 19, 2021, to (a) incorporate a certain LMR change order for the Tower Peak (TWR) site related to rock coring for caissons which includes additional tower foundation drilling as further described



in Unilateral Amendment No. 13 for a cost increase in the amount of \$54,558; (b) increase the Maximum Contract Sum by \$54,558 \$289,043,753 to \$289,098,311, for the Work contemplated in Unilateral Amendment No. 13; and (c) make other certain changes as set forth in Unilateral Amendment No. 13.

This Agreement has been previously amended unilaterally in Amendment Number Seventy-Five – Unilateral Amendment No. 14, issued September 3, 2021, to (a) incorporate a certain LMR change order for the Rancho Palos Verdes Tee Course (RPVT) site related to utility power work as further described in Unilateral Amendment No. 14 for a cost increase in the amount of \$286,577; (b) increase the Maximum Contract Sum by \$286,577 from \$289,098,311 to \$289,384,888, for the Work contemplated in Unilateral Amendment No. 14; and (c) make other certain changes as set forth in Unilateral Amendment No. 14.

This Agreement has been previously amended unilaterally in Amendment Number Seventy-Six – Unilateral Amendment No. 15, issued September 3, 2021, to (a) incorporate a certain LMR change order for the Topanga Peak (TOP Relay) site related to zoning application as further described in Unilateral Amendment No. 15 for a cost increase in the amount of \$24,740; (b) increase the Maximum Contract Sum by \$24,740 from \$289,384,888 to \$289,409,628, for the Work contemplated in Unilateral Amendment No. 15; and (c) make other certain changes as set forth in Unilateral Amendment No. 15.

This Agreement has been previously amended in Amendment Number Seventy-Seven, issued September 17, 2021, to (a) incorporate certain LMR change orders related to a power meter payment at the Universal Studios (UNIV) site as well as provisioning and installing bollards at the Frost Peak (FRP) site as further described in Amendment No. 77 for a cost increase in the amount of \$16,130; (b) increase the Maximum Contract Sum by \$16,130 from \$289,409,628 to \$289,425,758, when taking the actions contemplated in Amendment No. 77 into consideration; and (c) make other certain changes as set forth in Amendment No. 77.

The Agreement has been previously amended unilaterally in Amendment Number Seventy-Eight – Unilateral Amendment No. 16, issued September 24, 2021, to (a) incorporate a certain LMR change order for the Burnt Peak 1 (BUR1) site related to utility power work as further described in Unilateral Amendment No. 16 for a cost increase in the amount of \$7,300; (b) increase the Maximum Contract Sum by \$7,300 from \$289,425,758 to \$289,433,058 for the Work contemplated in Unilateral Amendment No. 16; and (c) make other certain changes as set forth in Unilateral Amendment No. 16.

The Agreement has been previously amended unilaterally in Amendment Number Seventy-Nine – Unilateral Amendment No. 17, issued September 29, 2021, to (a) incorporate a certain LMR change order for the San Pedro Hill (SPH) site related to utility power work as further described in Unilateral Amendment No. 17 for a cost increase in the amount of \$41,045; (b) increase the Maximum Contract Sum by \$41,045 from \$289,433,058 to \$289,474,103 for the Work contemplated in Unilateral Amendment No. 17; and (c) make other certain changes as set forth in Unilateral Amendment No. 17.

The Agreement has been previously amended unilaterally in Amendment Number Eighty – Unilateral Amendment No. 18, issued October 4, 2021, to (a) incorporate a certain LMR change order for the Burnt Peak 1 (BUR1) site related to rock coring for caissons which additional tower foundation drilling as further described in Unilateral Amendment No. 18 for a cost increase in the amount of \$18,960; (b) make changes necessary to reflect a reconciliation related to utility power work at Burnt Peak 1 (BUR1) site for a cost decrease in the amount of \$7,300; (c) increase the Maximum Contract Sum by \$11,660 from \$289,474,103 to \$289,485,763 when taking the actions contemplated in Unilateral Amendment No. 18 into consideration; and (c) make other certain changes as set forth in Unilateral Amendment No. 18.

The Agreement has been previously amended in Amendment Number Eighty-One, issued October 8, 2021 to (a) reflect the removal of one (1) LMR System Site, Saddle Peak (SPN) from the scope of Phase 4 (LMR System Implementation) only for a cost reduction in the amount of \$99,371; (b) reflect the inclusion of one (1) LMR System Site, MCI, inclusive of the line items provided in Attachment A to Amendment No. 81, into the scope of Phase 4 (LMR System Implementation) only for an increase in the amount of \$228,900; (c) exercise the Unilateral Options for all Work pertaining to Phase 4 (LMR System Implementation) for one (1) LMR System Site, MCI; (d) increase the Maximum Contract Sum by \$129,529 from \$289,485,763 to \$289,615,292, when taking the actions contemplated in Amendment No. 81 into consideration; and (e) make other certain changes as set forth in Amendment No. 81.

The Agreement has been previously amended in Amendment Number Eighty-Two, issued October 8, 2021, to (a) revise payments to align with Provisional Subsystem Acceptance; (b) preserve the parties' positions with respect the IMS reflecting an October 2023 completion date; and (c) make other certain changes as set forth in Amendment No. 82.

The Agreement has been previously amended in Amendment Number Eighty-Three, issued November 5, 2021, to (a) incorporate a LMR Change Order Modification related to the Antenna Changes necessitated by FCC Requirements at Burnt Peak1 (BUR1) for a cost increase in an amount of \$17,412; (b) increase the Maximum Contract Sum by \$17,412 from \$289,615,292 to \$289,632,704; and (c) make other certain changes as set forth in Amendment No. 83.

The Agreement has been previously amended unilaterally in Amendment Number Eighty-Four – Unilateral Amendment No. 19, issued November 5, 2021, to (a) incorporate a certain LMR change order for the various sites related to field implementation of USFS VIAMM requirements as further described in this Unilateral Amendment No. 19 for a cost increase in the amount of \$168,928; (b) increase the Maximum Contract Sum by \$168,928 from \$289,632,704 to \$289,801,632; and (c) make other certain changes as set forth in Unilateral Amendment No. 19.

The Agreement has been previously amended in Amendment Number Eighty-Five, issued December 23, 2021, to make changes necessary to reflect an overall reconciliation of the scope of the Agreement and Exhibit C (Schedule of Payments) as follows: (a) reflect

a reduction of certain scope of Phase 1 (System Design) work for a cost decrease in an amount of \$529,133; (b) reflect a reduction of certain scope of Phase 2 (Site Construction and Site Modification) work for a cost decrease in an amount of \$495,754, and reflect discounts from Phase 2 (Site Construction and Site Modifications) within C.15 in the amount of \$180,346; (c) reflect a reduction of certain testing contemplated in the scope of Phase 4 (LMR System Implementation) for a cost decrease in the amount of \$636,439, and reflect the reduction of certain Phase 4 (LMR System Implementation) Work for the TOP (Relay) site in the amount of \$77,558, and lastly, reflect the inclusion of certain Phase 4 (LMR System Implementation) Work for the MCI site for a cost increase in the amount of \$146,334, all actions resulting in a net cost decrease to Phase 4 (LMR System Implementation) in an amount of \$567,300; (d) reflect the removal of certain Additive Alternates, in particular, Bounded Area Coverage, Mandatory Building Coverage, Metrorail Coverage, and LMR System Maintenance for Additive Alternates, respectively, for a cost decrease in an amount of \$73,350,438; (e) reflect a reconciliation of certain LMR Change Orders resulting in a cost decrease in an amount of \$10,497; (f) decrease the Maximum Contract Sum by \$75,133,830 from \$289,801,632 to \$214,667,802 and (g) make other certain changes as set forth in Amendment No. 85.

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 Amendment No. 86 for a cost increase in the amount of \$11,438; (b) increase the Maximum Contract Sum by \$11,438 from \$214,667,802 to \$214,679,240; and (c) make other certain changes as set forth in this Amendment No. 86.

This Amendment No. 86 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. 86, 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 Agreement. Unless otherwise noted, section references in this Amendment No. 86 refer to sections of the Agreement, as amended by this Amendment No. 86.
2. LMR Change Order Modifications. The parties agree and acknowledge the Contractor will perform the Work contemplated in COR No. MSI-7080, MSI-7084 and COR No. MSI-7085, which are included herein by this reference, pursuant to Exhibit C.17 (LMR Change Order Modifications) and in accordance with this Section 2, in exchange for the amounts set forth in Exhibit C.17 (LMR Change Order Modifications) of Exhibit C (Schedule of Payments).

With respect to COR No. MSI-7084 for road maintenance/access work at the PMT site, the parties agree and acknowledge the COR contemplates two (2) days' worth

of road maintenance/access work. If the road maintenance/access work is completed in one (1) day, Contractor will only invoice for one (1) days' worth of work in the amount of \$2,620.

Item No.	Site ID	Site Name	COR No.	Description	Amount
1.	--	--	MSI-7080	LMR DTVRS UHF Information Only Coverage Testing	\$0
2.	GRM	Green Mountain	MSI-7085	Surveying for Power Easement	\$6,197
3.	PMT	Pine Mountain	MSI-7084	Road Maintenance/Access	\$5,241
<b>TOTAL AMOUNT:</b>					<b>\$11,438</b>

3. Amendments to Agreement.

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 Fourteen Million, Six Hundred Seventy-Nine Thousand, Two Hundred Forty Dollars (\$214,679,240) 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 One Hundred Fifty-Seven Million, Two Hundred Eleven Thousand, Eighty Dollars (\$157,211,080). 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. 86 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. 86 and incorporated herein by this reference.

- 4.3 Exhibit C.22 (LMR Subsystem Acceptance Payment Schedule) to Exhibit C (Schedule of Payments) is deleted in its entirety and replaced with Exhibit C.22 (LMR Subsystem Acceptance Payment Schedule), which is attached to this Amendment No. 86 and incorporated herein by this reference.
5. This Amendment No. 86 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. 86;
  - 5.2 Los Angeles County Counsel has approved this Amendment No. 86 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. 86; and
  - 5.4 The Executive Director of the Authority has executed this Amendment No. 86.
6. Except as expressly provided in this Amendment No. 86, all other terms and conditions of the Agreement, as amended, shall remain the same and in full force and effect.
7. Contractor and the person executing this Amendment No. 86 on behalf of Contractor represent and warrant that the person executing this Amendment No. 86 for Contractor is an authorized agent who has actual authority to bind Contractor to each and every term and condition of this Amendment No. 86, and that all requirements of Contractor to provide such actual authority have been fulfilled.
8. This Amendment No. 86 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 EIGHTY-SIX  
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. 86 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

<b>EXHIBIT C.1 - SCHEDULE OF PAYMENTS LMR SYSTEM PAYMENT SUMMARY</b>				
<b>Summary</b>	<b>Unilateral Option Sum</b>	<b>Contract Sum - Full Payable Amount</b>	<b>10% Holdback Amount</b>	<b>Payment Minus 10% Holdback Amount</b>
Phase 1 <sup>(Note 1)</sup>	\$ -	\$ 41,754,828	\$ 3,117,312	\$ 38,637,516
Phase 2	\$ -	\$ 43,222,351	\$ 4,212,845	\$ 39,009,506
Phase 3	\$ -	\$ 56,336,725	\$ 4,230,075	\$ 52,106,650
Phase 4	\$ -	\$ 20,732,003	\$ 2,009,828	\$ 18,722,174
<b>SUBTOTAL (Phases 1 to 4):</b>	<b>\$ -</b>	<b>\$ 162,045,907</b>	<b>\$ 13,570,061</b>	<b>\$ 148,475,846</b>
Phase 5 (15 Years)	\$ 55,898,518	\$ -	\$ -	\$ 55,898,518
<b>TOTAL (Phases 1 to 5):</b>	<b>\$ 55,898,518</b>	<b>\$ 162,045,907</b>	<b>\$ 13,570,061</b>	<b>\$ 204,374,364</b>
<del>Bounded Area Coverage Additive Alternate <sup>(Note 1)</sup></del>	<del>\$ 19,109,375</del>	<del>\$ -</del>	<del>\$ 1,910,937</del>	<del>\$ 17,198,437</del>
<del>Mandatory Building Coverage Additive Alternate</del>	<del>\$ 29,828,448</del>	<del>\$ -</del>	<del>\$ 2,982,845</del>	<del>\$ 26,845,603</del>
<del>Metrorail Coverage Additive Alternate</del>	<del>\$ 4,792,260</del>	<del>\$ -</del>	<del>\$ 479,226</del>	<del>\$ 4,313,034</del>
<del>LMR System Maintenance for Additive Alternates</del>	<del>\$ 19,620,355</del>	<del>\$ -</del>	<del>\$ 1,962,036</del>	<del>\$ 17,658,320</del>
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		\$ 3,278,876	\$ 327,888	\$ 2,950,989
LMR Unilateral Amendments		\$ 1,266,540	\$ 126,654	\$ 1,139,886
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
<b>SUBTOTAL</b>	<b>\$ 130,552,956</b>	<b>\$ 174,292,022</b>	<b>\$ 21,710,046</b>	<b>\$ 283,134,932</b>
<b>TOTAL CONTRACT SUM:</b>	<b>\$174,292,022</b>			
<b>LMR Discounts <sup>(Note 2)</sup></b>	<b>-\$16,815,301</b>			
<b>MAXIMUM CONTRACT SUM(Total Unilateral Option Sum plus Total Contract Sum):</b>	<b>\$214,679,240</b>			

**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 Area Coverage Additive Alternate Work is reflected in Exhibit C.7 (Bounded Area Coverage Additive Alternate).

**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
<b>Amendment No. 28</b>					
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
<b>Amendment No. 28 Subtotal</b>			<b>\$ 24,953</b>	<b>\$ 2,495</b>	<b>\$ 22,458</b>
<b>Amendment No. 29</b>					
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
<b>Amendment No. 29 Subtotal</b>			<b>\$ 38,456</b>	<b>\$ 3,846</b>	<b>\$ 34,610</b>
<b>Amendment No. 30</b>					
MSI-1205	MVS	MSI-1205 MVS LCP Testing Services	\$ 4,195	\$ 420	\$ 3,776
<b>Amendment No. 30 Subtotal</b>			<b>\$ 4,195</b>	<b>\$ 420</b>	<b>\$ 3,776</b>
<b>Amendment No. 31</b>					
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
<b>Amendment No. 31 Subtotal</b>			<b>\$ 19,573</b>	<b>\$ 1,957</b>	<b>\$ 17,616</b>
<b>Amendment No. 33</b>					
MSI-1528	MLM	MSI-1528 MLM Tower Light	\$ 17,490	\$ 1,749	\$ 15,741
<b>Amendment No. 33 Subtotal</b>			<b>\$ 17,490</b>	<b>\$ 1,749</b>	<b>\$ 15,741</b>
<b>Amendment No. 34</b>					
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
<b>Amendment No. 34 Subtotal</b>			<b>\$ 90,744</b>	<b>\$ 9,074</b>	<b>\$ 81,670</b>
<b>Amendment No. 35</b>					
MSI-5002	SDW	MSI-5002 SDW Waveguide Bridge Installation	\$ 13,115	\$ 1,312	\$ 11,804
<b>Amendment No. 35 Subtotal</b>			<b>\$ 13,115</b>	<b>\$ 1,312</b>	<b>\$ 11,804</b>
<b>Amendment No. 36</b>					
MSI-5003	BJM	MSI-5003 BJM Tower Mapping Services	\$ 4,952	\$ 495	\$ 4,457
<b>Amendment No. 36 Subtotal</b>			<b>\$ 4,952</b>	<b>\$ 495</b>	<b>\$ 4,457</b>
<b>Amendment No. 37</b>					
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
<b>Amendment No. 37 Subtotal</b>			<b>\$ 56,337</b>	<b>\$ 5,634</b>	<b>\$ 50,703</b>
<b>Amendment No. 38</b>					
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
<b>Amendment No. 38 Subtotal</b>			<b>\$ (47,393)</b>	<b>\$ (4,739)</b>	<b>\$ (42,654)</b>
<b>Amendment No. 39</b>					
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
<b>Amendment No. 39 Subtotal</b>			<b>\$ 73,606</b>	<b>\$ 7,361</b>	<b>\$ 66,245</b>
<b>Amendment No. 41</b>					
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	\$ -	\$ -	\$ -
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	\$ 2,200	\$ 220	\$ 1,980
<b>Amendment No. 41 Subtotal</b>			<b>\$ 245,478</b>	<b>\$ 24,548</b>	<b>\$ 220,930</b>
<b>Amendment No. 43 and Amendment No. 44</b>					
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
<b>Amendment No. 43 and Amendment No. 44 Subtotal</b>			<b>\$ 187,953</b>	<b>\$ 18,795</b>	<b>\$ 169,158</b>
<b>Amendment No. 45</b>					
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
<b>Amendment No. 45 Subtotal</b>			<b>\$ 39,050</b>	<b>\$ 3,905</b>	<b>\$ 35,145</b>
<b>Amendment No. 46</b>					
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
<b>Amendment No. 46 Subtotal</b>			<b>\$ 375,728</b>	<b>\$ 37,573</b>	<b>\$ 338,155</b>

Change Order Number	Site ID	Item/Category	Contract Sum - Payable Amount	10% Holdback Amount	Payable Amount Less 10% Holdback Amount
<b>Amendment No. 47</b>					
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
<b>Amendment No. 47 Subtotal</b>			<b>\$ 751,893</b>	<b>\$ 75,189</b>	<b>\$ 676,704</b>
<b>Amendment No. 48</b>					
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	\$ -	\$ -	\$ -
<b>Amendment No. 48 Subtotal</b>			<b>\$ 10,159</b>	<b>\$ 1,016</b>	<b>\$ 9,143</b>
<b>Amendment No. 49</b>					
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	\$ -	\$ -	\$ -
MSI-6069	LARICS	Audio Loopback	\$ -	\$ -	\$ -
<b>Amendment No. 49 Subtotal</b>			<b>\$ 110,000</b>	<b>\$ 11,000</b>	<b>\$ 99,000</b>
<b>Amendment No. 50</b>					
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
<b>Amendment No. 50 Subtotal</b>			<b>\$ 375,108</b>	<b>\$ 37,511</b>	<b>\$ 337,597</b>
<b>Amendment No. 51</b>					
MSI-6094/ MSI-7014	FCCF/PLM	Leased Fiber Link between FCCF and PLM	\$ 11,617	\$ 1,162	\$ 10,455
MSI-6096	CCB	Microwave Installation Modification	\$ -	\$ -	\$ -
<b>Amendment No. 51 Subtotal</b>			<b>\$ 11,617</b>	<b>\$ 1,162</b>	<b>\$ 10,455</b>
<b>Amendment No. 52</b>					
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
<b>Amendment No. 52 Subtotal</b>			<b>\$ 34,359</b>	<b>\$ 3,436</b>	<b>\$ 30,923</b>
<b>Amendment No. 53</b>					
MSI-7003	Various	VIAMM Multiple Site Implementation	\$ 186,594	\$ 18,659	\$ 167,935
MSI-7010	MDI	Utility Power Work	\$ 155,866	\$ 15,587	\$ 140,279
<b>Amendment No. 53 Subtotal</b>			<b>\$ 342,460</b>	<b>\$ 34,246</b>	<b>\$ 308,214</b>
<b>Amendment No. 54</b>					
MSI-7011	RPVT	Utility Power Survey Services	\$ 11,000	\$ 1,100	\$ 9,900
MSI-7012	WMP and WTR	Utility Power Work	\$ 121,895	\$ 12,190	\$ 109,706
MSI-7015	CPK	Subgrade Concrete Structure Evaluation Services	\$ 5,812	\$ 581	\$ 5,231
<b>Amendment No. 54 Subtotal</b>			<b>\$ 138,707</b>	<b>\$ 13,871</b>	<b>\$ 124,836</b>
<b>Amendment No. 55</b>					
MSI-7013	TOP	Outdoor Power System and Equipment	\$ 196,126	\$ 19,613	\$ 176,513
<b>Amendment No. 55 Subtotal</b>			<b>\$ 196,126</b>	<b>\$ 19,613</b>	<b>\$ 176,513</b>

Change Order Number	Site ID	Item/Category	Contract Sum - Payable Amount	10% Holdback Amount	Payable Amount Less 10% Holdback Amount
<b>Amendment No. 56</b>					
MSI-7008	TOP	Biota Reports	\$ 13,972	\$ 1,397	\$ 12,575
<b>Amendment No. 56 Subtotal</b>			<b>\$ 13,972</b>	<b>\$ 1,397</b>	<b>\$ 12,575</b>
<b>Amendment No. 57</b>					
MSI-7024	CPK	Removal of Subgrade Concrete Structure	\$ 8,566	\$ 857	\$ 7,709
<b>Amendment No. 57 Subtotal</b>			<b>\$ 8,566</b>	<b>\$ 857</b>	<b>\$ 7,709</b>
<b>Amendment No. 58</b>					
MSI-7025	UNIV	Redesign Work	\$ 61,668	\$ 6,167	\$ 55,501
<b>Amendment No. 58 Subtotal</b>			<b>\$ 61,668</b>	<b>\$ 6,167</b>	<b>\$ 55,501</b>
<b>Amendment No. 59</b>					
MSI-7049	POM	Correction of Fire Alarm Deficiency	\$ 5,282	\$ 528	\$ 4,754
MSI-7044	RPVT	Antenna Powder Coating	\$ 6,874	\$ 687	\$ 6,187
MSI-7051	LAC072	Antenna Powder Coating	\$ 509	\$ 51	\$ 458
MSI-7045	MML	Utility Power Survey	\$ 3,465	\$ 347	\$ 3,119
<b>Amendment No. 59 Subtotal</b>			<b>\$ 16,130</b>	<b>\$ 1,613</b>	<b>\$ 14,517</b>
<b>Amendment No. 63</b>					
MSI-7060	WTR	Utility Power Provision	\$ 10,788	\$ 1,079	\$ 9,709
<b>Amendment No. 63 Subtotal</b>			<b>\$ 10,788</b>	<b>\$ 1,079</b>	<b>\$ 9,709</b>
<b>Amendment No. 64</b>					
MSI-7064	TWR	Survey for SCE Conveyance	\$ 8,106	\$ 811	\$ 7,295
<b>Amendment No. 64 Subtotal</b>			<b>\$ 8,106</b>	<b>\$ 811</b>	<b>\$ 7,295</b>
<b>Amendment No. 77</b>					
MSI-7072	UNIV	Power Meter Payment	\$ 8,494	\$ 849	\$ 7,645
MSI-7067	FRP	Bollards Around SCE Transformer	\$ 7,636	\$ 764	\$ 6,872
<b>Amendment No. 77 Subtotal</b>			<b>\$ 16,130</b>	<b>\$ 1,613</b>	<b>\$ 14,517</b>
<b>Amendment No. 83</b>					
MSI-7077	BUR1	Antenna Changes FCC Requirements	\$ 17,412	\$ 1,741	\$ 15,671
<b>Amendment No. 83 Subtotal</b>			<b>\$ 17,412</b>	<b>\$ 1,741</b>	<b>\$ 15,671</b>
<b>Amendment No. 86</b>					
MSI-7080	--	LMR DTVRS UHF Information Only Coverage Testing	\$ -	\$ -	\$ -
MSI-7085	GRM	Surveying for Power Easement	\$ 6,197	\$ 620	\$ 5,577
MSI-7084	PMT	Road Maintenance	\$ 5,241	\$ 524	\$ 4,717
<b>Amendment No. 86 Subtotal</b>			<b>\$ 11,438</b>	<b>\$ 1,144</b>	<b>\$ 10,294</b>
<b>TOTAL FOR ALL LMR CHANGE ORDER MODIFICATIONS</b>			<b>\$ 3,278,876</b>	<b>\$ 327,888</b>	<b>\$ 2,950,989</b>

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.

**SCHEDULE OF PAYMENTS**  
**EXHIBIT C.22 - LMR SUBSYSTEM ACCEPTANCE PAYMENT SCHEDULE**

TOTAL HOLDBACK AS OF AMENDMENT NO. 82	HOLDBACK
Phases 1 to 4 Holdback	13,570,061
LMR Change Order Modifications Holdback	327,888
LMR Unilateral Amendments Holdback	126,654
MPLS Mobile Backhaul Holdback	220,000
<b>Subsystem Hold Back Total</b>	<b>14,244,602</b>

Subsystem	Date of Completion	Percentage	Payment of Subsystem Phase 4 Completion Acceptance	Subsystem Acceptance Testing	Release of Holdback at each Subsystem Acceptance	Release of \$1.5M of Holdback at Final Acceptance	Release of 5% of Holdback One Year After System Acceptance	Total
NMDN (Phase 1)	7/19/2022	10%	\$921,735	\$256,323	\$553,621	\$149,481	\$705,565	\$2,586,725
DTVRS	3/10/2023	55%	\$5,069,545	\$1,409,776	\$3,079,892	\$826,817	\$3,935,426	\$14,321,457
LARTCS	7/28/2023	10%	\$921,735	\$256,323	\$553,621	\$149,481	\$705,565	\$2,586,725
ACVRS	8/3/2023	20%	\$1,843,471	\$512,646	\$1,112,868	\$300,000	\$1,423,311	\$5,192,297
NMDN (Phase 2) Completion final System Documentation	9/26/2023	5%	\$460,868	\$128,161	\$269,859	\$74,221	\$346,691	\$1,279,799
Functional Test Acceptance				\$380,828	\$21,157		\$21,157	\$423,142
Special Operational Test Acceptance				\$0	\$0		\$0	\$0
Stress Test Acceptance				\$0	\$0		\$0	\$0
Voice Aerial Coverage Test Acceptance				\$0	\$0		\$0	\$0
Voice Waterway Coverage Test Acceptance				\$0	\$0		\$0	\$0
Voice Subscriber Access Test Acceptance				\$95,207	\$5,289		\$5,289	\$105,785
NMDN CAD Baseline System Test Acceptance				\$47,603	\$2,645		\$2,645	\$52,893
<b>Final System Acceptance</b>		<b>100%</b>	<b>\$9,217,354</b>	<b>\$3,086,867</b>	<b>\$5,598,953</b>	<b>\$1,500,000</b>	<b>\$7,145,650</b>	<b>\$26,548,823</b>