

Los Angeles Regional Interoperable Communications System (LA-RICS)

Response to Corrective Action Plan

April 13, 2015

Executive Summary

With over 80 public safety agencies and approximately 34,000 first-responders, and encompassing a sprawling terrain of over 4,060 square miles, the Los Angeles region needs a modern interoperable public safety broadband network that allows multiple agencies to respond to the widest possible variety of emergencies. The Los Angeles Regional Interoperable Communications System (LA-RICS) Authority (Authority) will deploy a Public Safety Broadband Network (PSBN) across all of Los Angeles County, featuring forty six (46) hardened, public safety grade, wireless 700 MHz broadband sites and an additional two (2) microwave-only installations. These forty eight (48) sites form the Baseline PSBN for the Authority's response to the Corrective Action Plan (CAP), and can be constructed by the end of the BTOP performance period if construction is permitted to start by no later than May 1, 2015.

In addition to the 46 permanent PSBN sites on Member Agency and independent city locations, the Authority is planning additional groups of sites to serve as augmentation options that will provide substantial increases to the PSBN's coverage and capacity. There are two primary augmentation options. The first is comprised of locations where the Authority will deploy a Cell on Wheels (COW). The second is the inclusion of two City of Los Angeles proprietary department sites (Los Angeles Port Authority and the Los Angeles Department of Water and Power). These locations will serve to strategically address the loss of the City of Los Angeles and Los Angeles County Fire Department (LACF) sites.

The final option, which is not currently recommended as part of this response, is the potential inclusion of the original Los Angeles Police Department (LAPD) PSBN sites. The City of Los Angeles is evaluating the issues related to the PSBN project and is working with their relevant stakeholders to discuss their concerns. These sites may be reintroduced as viable project sites within the grant performance period once existing issues are resolved with the City of Los Angeles. Although the discussions are ongoing and yet unresolved, the Authority believes that it is still important to consider their impacts on the PSBN. Each of these augmentation groups are designed to provide additional coverage and critical capacity. Although each potential group would provide significant contributions, the Baseline System consisting of the forty eight (48) permanent public safety sites will provide the viable network required by users.

The Authority, along with Jacobs, Motorola Solutions (Motorola), the LTE design/build Contractor, the California Department of Emergency Services (CalOES), and Televate, the Authority's broadband consultant, collaborated in development of the new site configuration.

The LA-RICS team is well aware of the challenges associated with implementing the proposed PSBN as constituted. To address many of the challenges the Authority created individual plans to meet the unique and specific impacts created by the actions of the Los Angeles County Board of Supervisors and the City of Los Angeles City Council. The plans, further described in the sections below, consist of the following:

1. Implementation Schedule
2. Implementation Plan
3. Outreach

4. Financial
5. Environmental

Each of these are intended to present the path forward for the Authority in a manner that demonstrates our commitment and the means to achieve the goals of our program, which is to provide a robust public safety broadband network capable of providing a necessary service to the public safety personnel in the Los Angeles Region. The Authority requests that NTIA and the NOAA grants office, in collaboration with FirstNet, approve the plan inclusive of the Baseline PSBN site locations as well as the deployment of COWs and the inclusion of the two City of Los Angeles proprietary sites.

Section 1 - Implementation Schedule

Construction Schedule

The Authority is focused on providing a PSBN that meets the needs of the region’s first responders and is completed by the grant performance period. The PSBN Schedule going forward represents the means by which the Authority, Jacobs, and Motorola will complete the build out of the sites described in this plan. The Authority will resume construction activities and complete forty six (46) Baseline PSBN sites and two (2) microwave backhaul sites by the end of the performance period. The forty eight (48) total construction sites are comprised of thirty (30) Los Angeles County owned or leased sites and eighteen (18) Independent City sites. A detailed list of the forty eight (48) sites can be found in Exhibit A (PSBN Site List).

The revised PSBN schedule of forty eight sites will take advantage of a significant amount of progress already made at each site. The schedule can be viewed from a high level of where we will re-start the revised PSBN project:

1. Environmental
 - A. 67% of sites have completed NEPA/NHPA compliance process (32/48), and another eight (8) sites only require approval or renewed approval of findings already made by NTIA (83%).
2. Zoning/Permitting
 - A. 64% of sites have Site Access Agreements (31/48)
 - B. 77% of sites have completed 50% drawings (37/48)
 - C. 52% of sites have completed 90% drawings (25/48)
 - D. 35% of sites have Building Permits (17/48)
 - E. 97% of sites have completed, or do not require Geotech (47/48)
3. Material/Equipment
 - A. 35% of sites are using existing towers (17/48)
 - B. 21% of sites are roof mounts (10/48)
 - C. Towers
 - D. Generators
 - E. 15 COW's can be delivered in approx. 4 weeks
4. Site Construction/Modifications
 - A. 25% have site construction started (12/48)
 - B. 2% have site construction completed (1/48)
5. Backhaul Connectivity Status
 - A. 65% have approved backhaul design consistent with the Baseline PSBN (31/48)
 - B. 25% have a backhaul solution that may require additional sites outside of the

Baseline PSBN (12/48)

- C. 5% possess only a single backhaul solution that could be impacted with the reduction of sites (5/48).

Additionally, the revised Baseline PSBN project will take advantage of a mobilized General Contractor workforce that is already in the field ready to work and procurement completed of many key components.

Lessons learned and applied to improve schedule performance include:

- Complete knowledge of existing gates that need to be closed prior to construction
- Expediting remaining environmental approvals
- Expediting remaining building permit approvals
- Coordination of project office and work in the field with work crews

To complete the remaining work for the revised Baseline PSBN site schedule there are 120 calendar days remaining to project completion of August 15, 2015. Each work day is eight (8) hours per day, five days a week. If Saturdays are allowed by the agency, there are 106 work days left.

Table 1 - LA-RICS Construction Status

Site Breakdown			
	County	Independent Cities	Total Sites
Number of Sites	30	18	48
Infrastructure Completed	1	-	1
Construction Started	11	2	13
Building Permits	15	2	17
90% Drawings	20	11	31
50% Drawings	22	14	36

Site Access Agreements

Table 2 below provides site access agreement status for the sites contemplated in our updated project plan. The site selection process removed sites unlikely to be executed in the time required for successful project implementation.

Table 2 - Site Access Agreement Status

Site Name	Agency	Owner	Status of Site Access Agreements
<i>Phase 1 Sites: 46 Baseline + 2 Backhaul Sites</i>			
ARCPD01	Arcadia PD	City of Arcadia	Fully Executed on 1/6/2015
AZPD001	Azusa PD	City of Azusa	Fully Executed on 11/18/2014

Site Name	Agency	Owner	Status of Site Access Agreements
BGPD001	Bell Gardens PD	City of Bell Gardens	Pending Redevelopment Agency ownership transfer
BHR	Beverly Hills Rexford Drive	City of Beverly Hills	Pending approval from JPA at 5/6/2015 Meeting; Scheduled for Beverly Hills City Council approval latter part of May
BMT	Bald Mountain	LA County	Fully Executed on 8/22/2014
BURPD01	Burbank PD	City of Burbank	Pending approval from City Council
CCT	Criminal Court Building	State of California	Pending approval from Trial Courts of California
CEN	Century	LA County	Fully Executed on 8/22/2014
CLM	Claremont Microwave Tower	City of Claremont	Pending approval from City Council
CPTFD04	FS 4	City of Compton, Redevelopment Agency	City Attorney reviewing
ELMNTPD	El Monte PD	City of El Monte	Fully Executed on 2/10/2015
FCCF	FCCF -HQ	LA County	Fully Executed on 8/22/2014
FS5	FS 5	City of Long Beach	Redlines received from Long Beach City Attorney; JPA Attorney reviewing
GARD001	Gardena	City of Gardena	Pending approval from South Bay Regional Communication Center
LACHAR	LAC/Harbor+UCLA Medical Ctr	LA County	Fully Executed on 8/22/2014
LACOLV	LAC/Oliveview+UCLA	LA County	Fully Executed on 8/22/2014
LACUSC	LAC/USC Medical Ctr	LA County	Fully Executed on 8/22/2014
LAN	Lancaster	City of Lancaster	Under review by City Lancaster
LASDALD	Altadena	LA County	Fully Executed on 8/22/2014
LASDCSN	Carson	LA County	Fully Executed on 8/22/2014

Site Name	Agency	Owner	Status of Site Access Agreements
LASDCVS	Crescenta Valley	LA County	Fully Executed on 8/22/2014
LASDIDT	Industry	LA County	Fully Executed on 8/22/2014
LASDLKD	Lakewood	LA County	Fully Executed on 8/22/2014
LASDLNX	Lennox (Closed)	LA County	Fully Executed on 8/22/2014
LASDNCC	North County Correctional Facility	LA County	Fully Executed on 8/22/2014
LASDNWK	Norwalk	LA County	Fully Executed on 8/22/2014
LASDPRV	Pico Rivera	LA County	Fully Executed on 8/22/2014
LASDSCV	Santa Clarita Valley	LA County	Fully Executed on 8/22/2014
LASDSDM	San Dimas	LA County	Fully Executed on 8/22/2014
LASDTEM	Temple	LA County	Fully Executed on 8/22/2014
LBECOC	Long Beach Emergency Comm & Op Center	City of Long Beach	Redlines received from Long Beach City Attorney; JPA Attorney reviewing
LBFD012(N)	FS 12(N)	City of Long Beach	Redlines received from Long Beach City Attorney; JPA Attorney reviewing
LBPDHQ	HQ	City of Long Beach	Redlines received from Long Beach City Attorney; JPA Attorney reviewing
LHS	Lost Hills/Malibu	LA County	Fully Executed on 8/22/2014
MLM	Mira Loma Detention Facility	LA County	Fully Executed on 8/22/2014
ONK	Oat Mountain Nike	LA County	Backhaul site. Pending execution from CEO Real Estate Division
PASA001	Goodrich	City of Pasadena	Pending approval from City Council

Site Name	Agency	Owner	Status of Site Access Agreements
PASDNPD	Pasadena Police	City of Pasadena	Pending approval from City Council
PHN	Puente Hills	LA County	Fully Executed on 8/22/2014
PLM	Palmdale	LA County	Fully Executed on 8/22/2014
RANCHO	LAC/Rancho Los Amigos Natl. Rehab	LA County	Fully Executed on 8/22/2014
SDW	San Dimas	LA County	Backhaul Site: Approved by agency on 3/24/15 pending execution
SLA	South L.A.	LA County	Fully Executed on 8/22/2014
VEFD001	FS 1	City of Vernon	Fully Executed on 12/12/2014
VEFD003	FS 3	City of Vernon	Fully Executed on 12/12/2014
VPC	Verdugo Peak	LA County	Pending execution from CEO Real Estate Division
WAL	Walnut/Diamond Bar	LA County	Fully Executed on 8/22/2014
WHD	West Hollywood	LA County	Fully Executed on 8/22/2014
<i>Augmentation Strategy #1 (2 Sites: COW's)</i>			
12 State of CA Sites	See Exhibit A	State of CA	Right of Entry Draft with State of CA in progress
LADPW38 (Hoyt Storage)	Rural	LA County	Right of Entry in Progress with County CEO RED
Monte Vista Star Center	Rural	LA County	Right of Entry in Progress with County CEO RED
Blue Rock 2	Lancaster	LA County	Right of Entry in Progress with County CEO RED
<i>Augmentation Strategy #2 (3 Sites: City of Los Angeles Proprietary Sites)</i>			
LDWP243	Aqueduct Cascades	Dept. of Water and Power	DWP Real Estate Division reviewing SAA

Site Name	Agency	Owner	Status of Site Access Agreements
LAPP001 (formerly LAFD049)	Wilmington	Los Angeles Port Police	LA Port Police Real Estate reviewing SAA
<i>Additional Option Sites: Los Angeles Police Department Sites</i>			
19 LAPD Sites	See Exhibit A	City of Los Angeles	Fully Executed on 11/24/2014

Section 2 - Implementation Plan

Baseline PSBN Plan

Due to the decisions made by the LA County Board of Supervisors, which influenced the decision made by the LA City Council, the Authority was confronted with the loss of over 100 of the sites originally planned for implementation in the PSBN. Although the loss of these sites results in a degradation of performance in the PSBN, the Authority believes that it can still meet the objectives it set out to accomplish when it applied for the BTOP grant utilizing the Baseline PSBN sites. In order to achieve these objectives, the Authority will construct forty eight (48) sites that provide sufficient coverage to the stakeholders who will constitute the primary users of the PSBN. To date, the primary users of the PSBN could include:

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Los Angeles County Sheriff's Department (largest Sheriff's Department in the US) 2. Los Angeles Port Police (2nd largest port in the US) 3. City of Arcadia Police Department 4. City of Arcadia Fire Department 5. City of Azusa Police Department 6. City of Baldwin Park Police Department 7. City of Bell Police Department 8. City of Bell Gardens Police Department 9. City of Beverly Hills Police Department 10. City of Beverly Hills Fire Department 11. City of Claremont Police Department 12. City of Compton Fire Department 13. City of Covina Police Department 14. City of Culver City Police Department 15. City of Culver City Fire Department 16. City of Downey Police Department 17. City of Downey Fire Department 18. City of El Monte Police Department 19. City of Glendora Police Department | <ol style="list-style-type: none"> 20. City of Hawthorne Police Department 21. City of Huntington Park Police Department 22. City of Inglewood Police Department 23. City of Irwindale Police Department 24. City of La Habra Heights Fire Department 25. City of La Verne Police Department 26. City of La Verne Fire Department 27. City of Montebello Police Department 28. City of Montebello Fire Department 29. City of Monterey Park Police Department 30. City of Monterey Park Fire Department 31. City of Pasadena Police Department 32. City of Pasadena Fire Department 33. City of Redondo Beach Police Department 34. City of Redondo Beach Fire Department 35. City of San Fernando Police Department 36. City of San Gabriel Police Department |
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- | | |
|--|---|
| 37. City of San Gabriel Fire Department | 46. City of South Pasadena Police Department |
| 38. City of San Marino Police Department | 47. City of South Pasadena Fire Department |
| 39. City of San Marino Fire Department | 48. City of Vernon Police Department |
| 40. City of Santa Monica Police Department | 49. City of Vernon Fire Department |
| 41. City of Santa Monica Fire Department | 50. City of Whittier Police Department |
| 42. City of Sierra Madre Police Department | 51. Inglewood Unified School District Police Department |
| 43. City of Sierra Madre Fire Department | 52. Los Angeles Unified School District Police Department |
| 44. City of Signal Hill Police Department | 53. University of California at Los Angeles (UCLA) |
| 45. City of Southgate Police Department | |

Figure 1 below depicts the level of mobile coverage provided to these agencies by the Baseline PSBN. Although the coverage now represents expected coverage results when utilizing a Band Class 14 vehicular modem, it still represents a contiguous coverage footprint that is sufficient for these agencies to utilize the PSBN for their day to day use as well as in cases of emergencies. Figure 2 represents where participating agency’ users will have portable coverage utilizing a portable device (e.g., cell phone or tablet). This map represents the net effect from the loss of sites.

However, it is expected that coverage will be improved when considering the 12 State sites 3 County sites and 2 sites from the Department of Water and Power and the Los Angeles Port Police. The coverage maps for these two primary augmentation strategies can be seen in Figures 4 and 5 for COW implementation and Figures 6 and 7 for City of Los Angeles proprietary sites.

The Implementation Schedule is based on completing each site as it becomes available for construction, with many of the sites listed in Exhibit A (PSBN Site List) already in some phase of design, permitting, or construction. Of the forty eight sites, four (4) have their infrastructure complete and nine (9) have the antenna support structure erected. As an example, Los Angeles County Sheriff sites, the largest contributor of sites remaining, has construction near completion on ten (10) of their twenty (20) total sites. Exhibit B (Implementation Schedule) depicts the timeline associated with each site and provides details on when the site will be complete. All 48 sites will be complete by the end of the grant performance period.

Figure 1 - PSBN Baseline Site List Mobile Coverage



LA-RICS Coverage Analysis

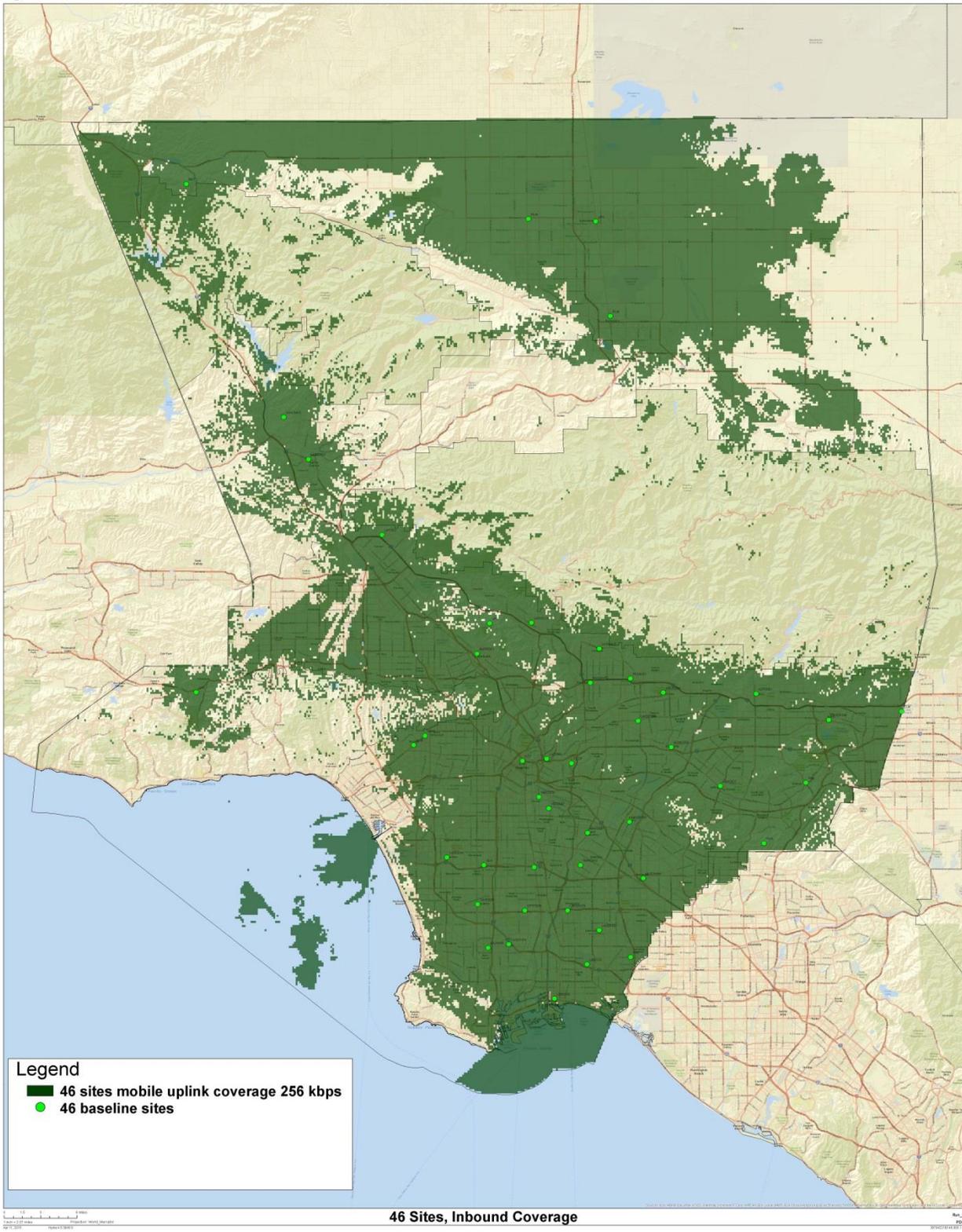
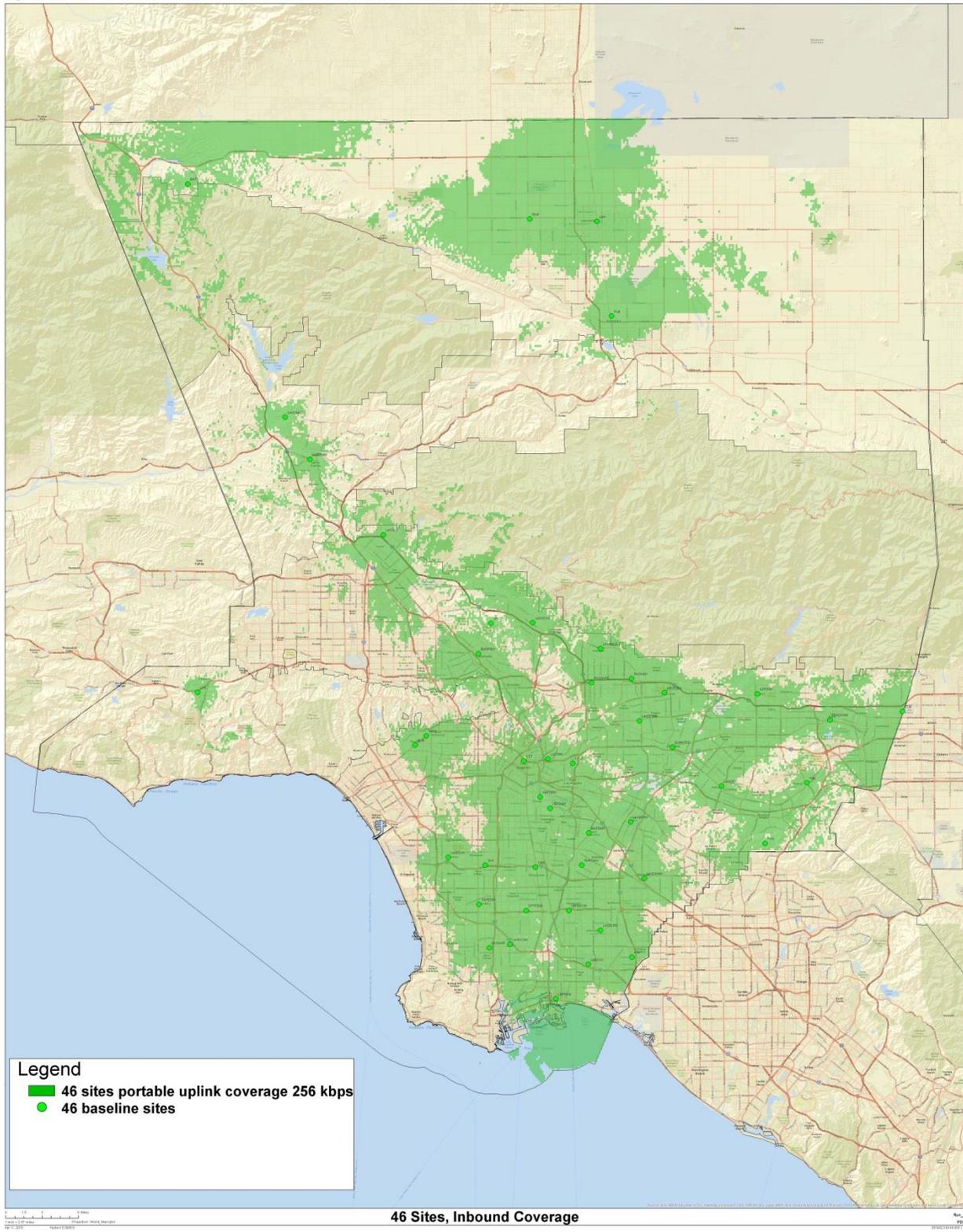


Figure 2 - PSBN Baseline Site List Portable Coverage Map (46 Sites)



LA-RICS Coverage Analysis



Primary Augmentation Strategies

Augmentation Strategy #1 - Addition of Cell on Wheels (COWs)

Although the Authority believes the Baseline PSBN sites will provide sufficient coverage for the region’s first and secondary responders, we seek to improve that coverage with supplemental locations. The Authority, in conjunction with the State of California Office of Emergency Services (CalOES), sought to identify areas where coverage could be improved by the placement of COWs. That objective led us to consider sites that currently serve as communications facilities for State of California agencies. Ultimately the search parameters were expanded to include California Department of Transportation (Caltrans) sites where power and space were available for the planned installation. The Authority and CalOES engineers examine all available locations within, and surrounding, Los Angeles County as potential locations for the placement of COWs. The purpose of the exercise was to solidify what sites could potentially augment the Baseline PSBN network design, whether through fill-in coverage for an area that lacked coverage or if the COW improved existing coverage.

The two organizations identified an initial list of thirty nine (39) possible sites. Once all candidates were identified, the CalOES staff and the Authority began the process of winnowing the list to only those that were available and could meet the Authority’s needs. CalOES provided documentation on space availability and identified the agency that controlled the land in an effort to initiate agreements for the placement of the resources. The LA-RICS team focused on determining suitability and environmental impacts. Once that analysis was complete, the Authority released the site list to Motorola for the determination on the locations that would best augment the coverage and capacity of the Baseline PSBN sites.

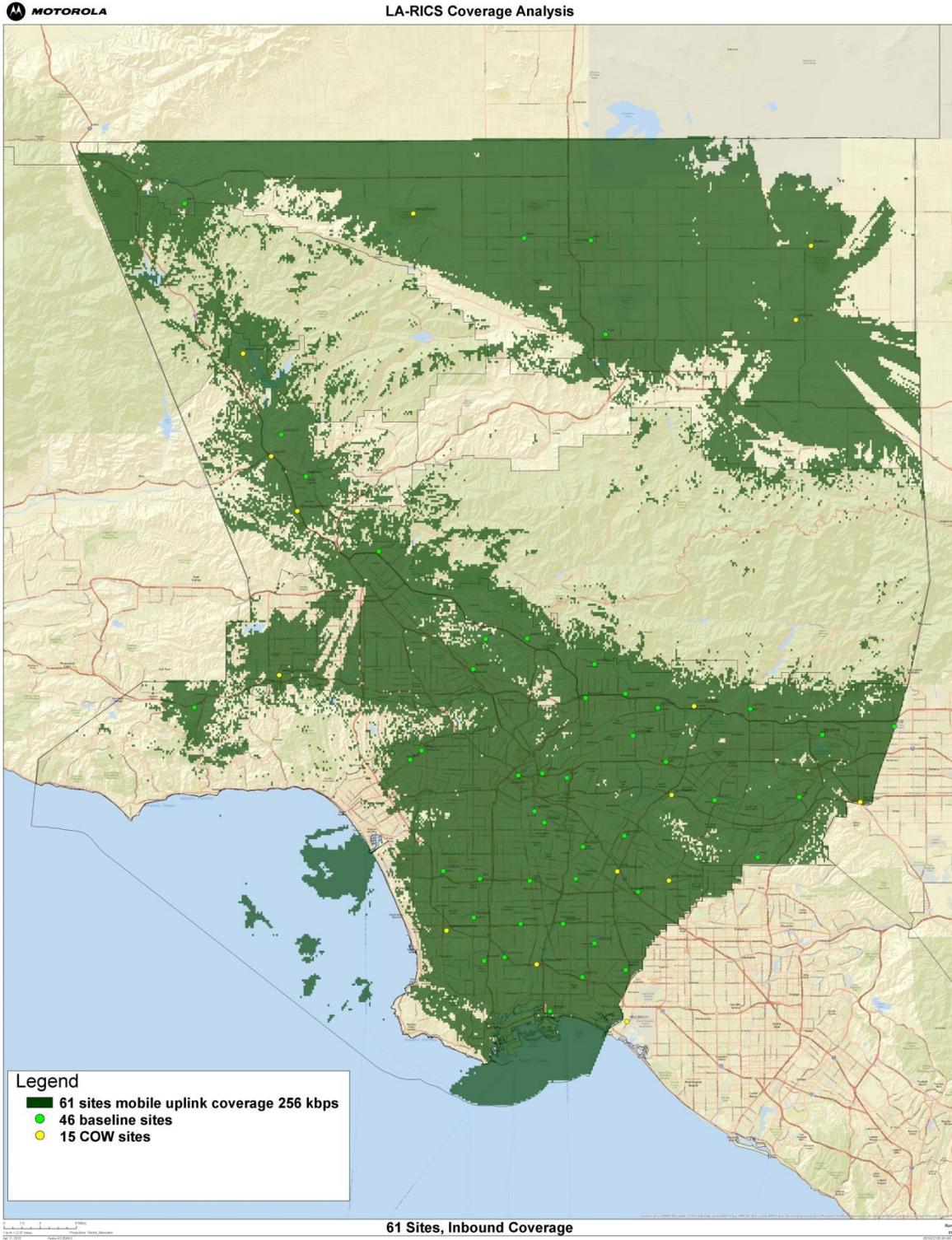
Motorola examined the potential site list, originally thirty nine (39), but after the Authority and CalOES performed a deeper analysis only twenty (20) proved viable for inclusion. Of those twenty possible sites, Motorola was able to select fifteen (15) that substantially augmented and improved coverage. The sites can be seen in Figure 16 below:

Figure 3 - Potential LA-RICS Cell on Wheels Locations (15)



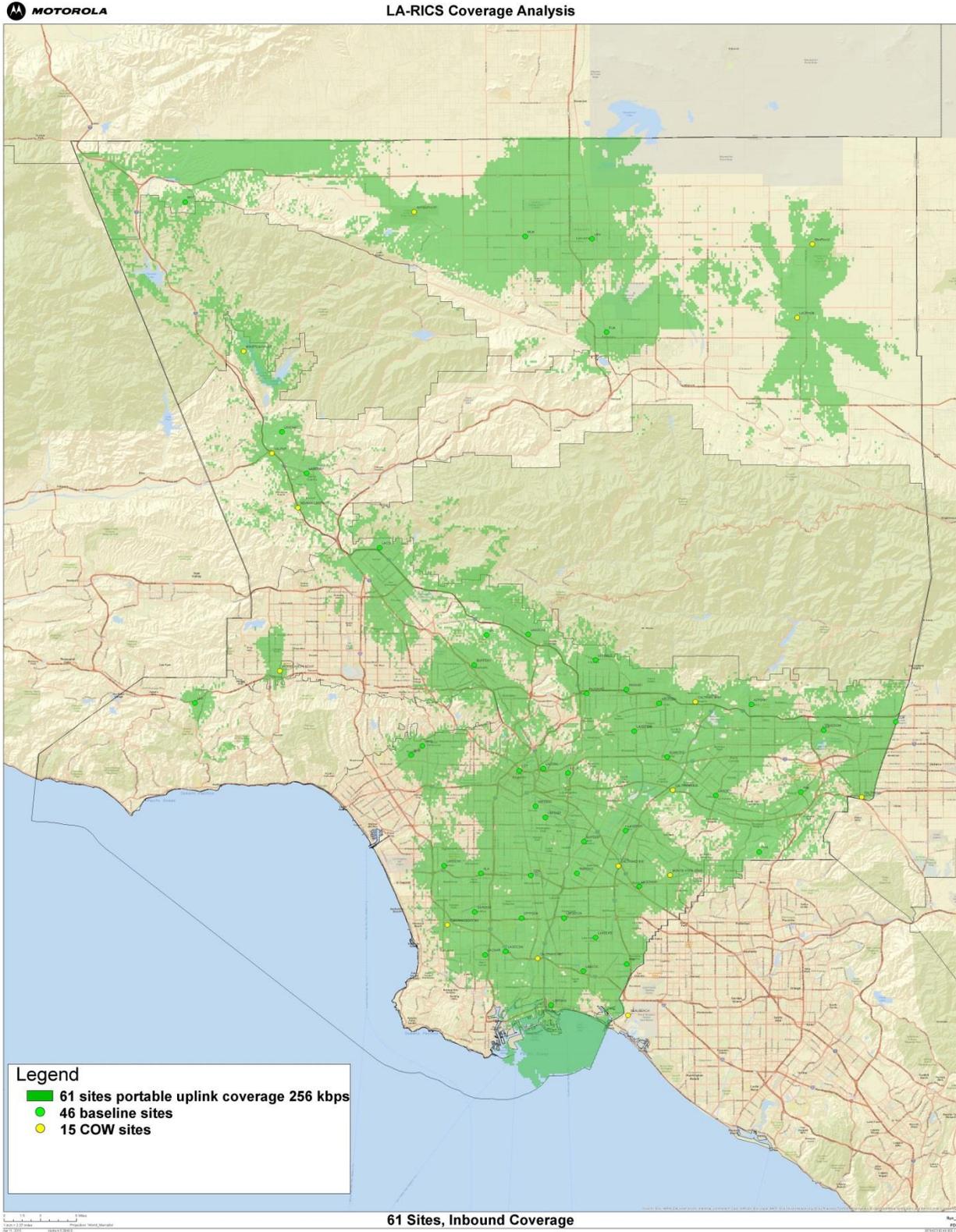
The addition of these COW sites to the PSBN provides significant improvements in coverage. Figure 4 below represents the mobile coverage supplied by the Base PSBN sites with the benefit of the fifteen COW locations.

Figure 4 - LA-RICS PSBN Baseline Sites with Supplemental COW Locations (15) Mobile Coverage Map



A view of coverage from a portable (e.g., phone or tablet) device is depicted below:

Figure 5 - LA-RICS PSBN Baseline Sites with Supplemental COW Locations (15) Portable Coverage Map



Inclusion of City of Los Angeles Proprietary Sites

The final primary augmentation group consists of two City of Los Angeles proprietary department sites. The two sites, LDWP243, which is controlled by the Los Angeles Department of Water and Power; and LAPP001 (formerly LAFD049), which is controlled by the Port of Los Angeles are critical sites for our augmentation strategy. The Authority and the City of Los Angeles Mayor's Office will continue to aggressively pursue the Site Access Agreement for these locations. Currently, the Authority has environmental and administrative clearance to begin the construction process on LDWP243 and will be collocating on the existing antenna structure at LAPP001. Although LAPP001 (formerly LAFD049) is identified by the Authority as a City of Los Angeles Fire Department site, the installation of PSBN equipment would be done on the existing tower at the City of Los Angeles Port Police station.

These two locations provide significant augmentation of coverage and capacity in their respective site footprints. The LDWP243 site will improve coverage and capacity at the intersection of the 405/118/5/210/14 freeways and highways respectively. This is one of the most travelled stretch of freeways and highways in the county and links the Santa Clarita Valley and northern desert cities with the Los Angeles Basin. Additionally, the coverage provided by LAPP001 will augment the coverage and capacity at the two largest port complexes in the country. Figures 7 and 8 below depict the additional coverage provided by the two sites.

Figure 6 - City of Los Angeles Proprietary Site Mobile Coverage Map



LA-RICS Coverage Analysis

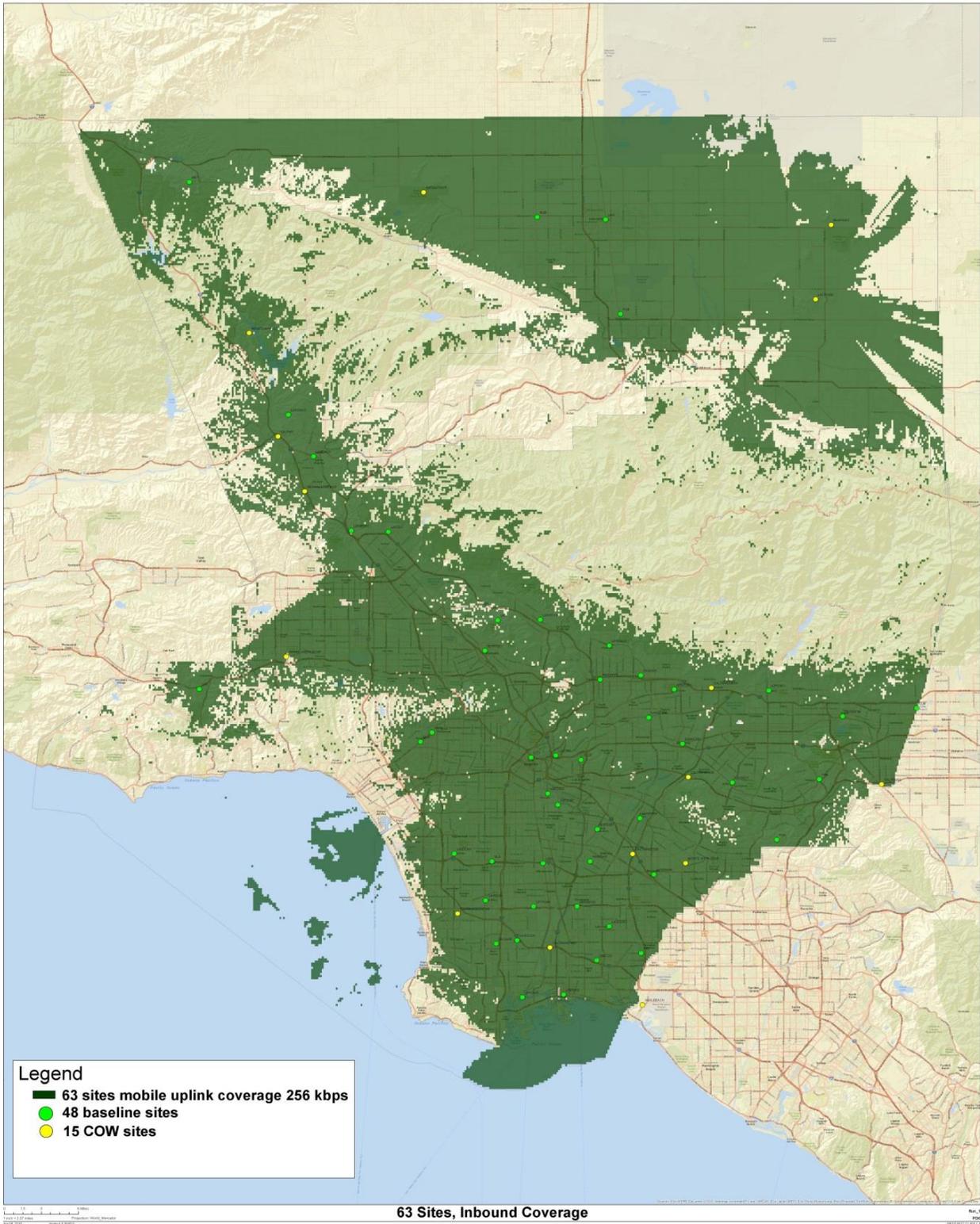
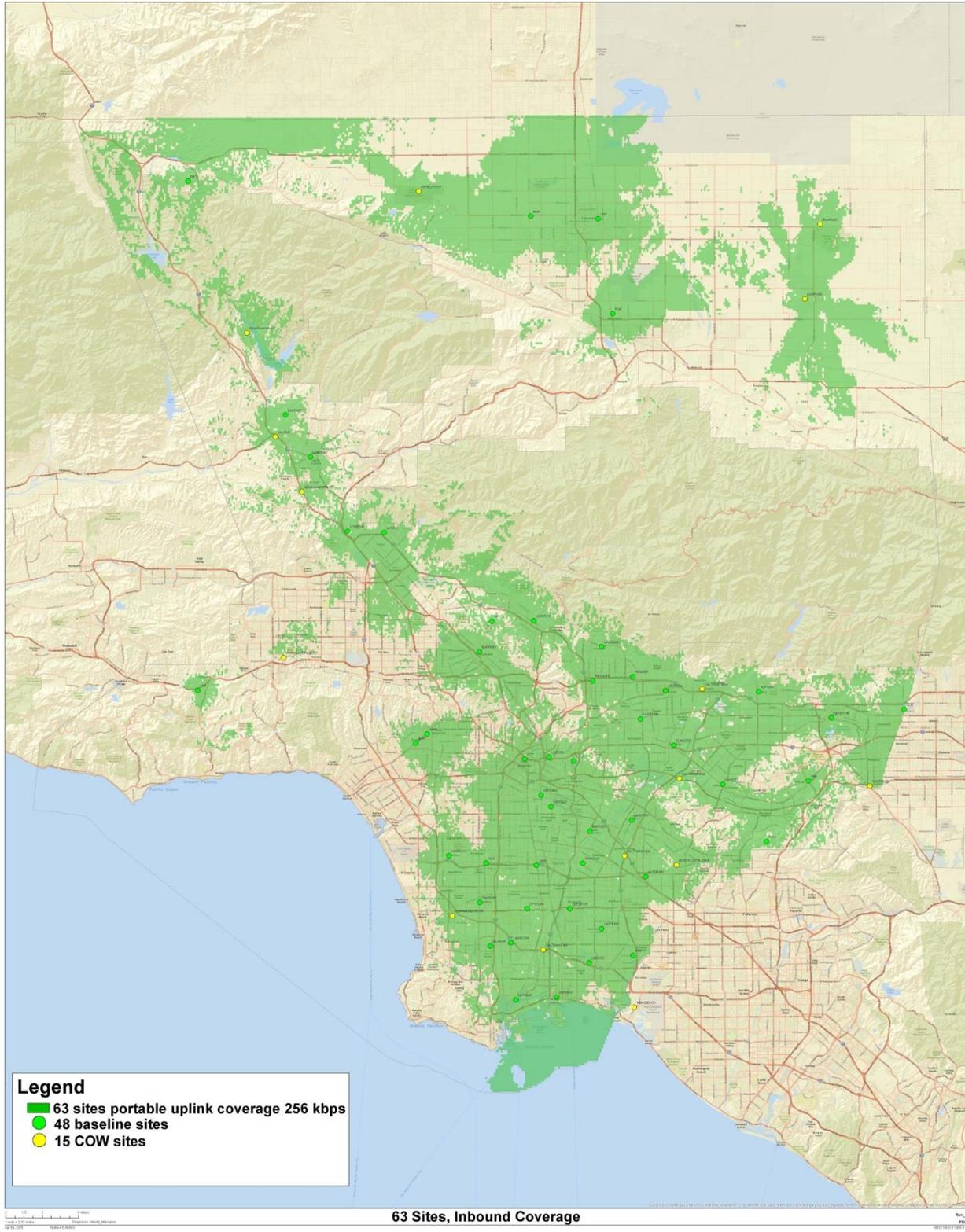


Figure 7 - City of Los Angeles Proprietary Site Portable Coverage Map



LA-RICS Coverage Analysis



Additional Opportunity

Potential Inclusion of Los Angeles Police Department Sites

On April 1, 2015 the Los Angeles Police Protective League (LAPPL) and the United Firefighters of Los Angeles City (UFLAC) supported a motion before the Los Angeles City Council to suspend all construction on PSBN sites owned or operated by the City of Los Angeles Fire Department (LAFD) and the City of Los Angeles Police Department (LAPD). The two unions voiced their opposition to the continued construction, and ultimately the operation of these PSBN sites. The Unions' stated concerns were the same concerns held by Local 1014, the Union that represents Los Angeles County Fire Department personnel, and are based on the potentially harmful effects of radio frequency (RF) emissions.

The overall impact to the PSBN is the loss of forty one (41) PSBN sites, 19 LAPD and 22 LAFD sites. This creates substantial coverage and capacity deficiencies in the PSBN operational area, although the impacts are felt most acutely within the boundaries of the City of Los Angeles.

This action created a similar degradation to the PSBN's performance as the vote by the Los Angeles County Board of Supervisors. The central difference between the two actions was the retention of the LA County Sheriff sites. The City of Los Angeles removed both their fire and law enforcement sites which left large swaths of their jurisdiction without coverage.

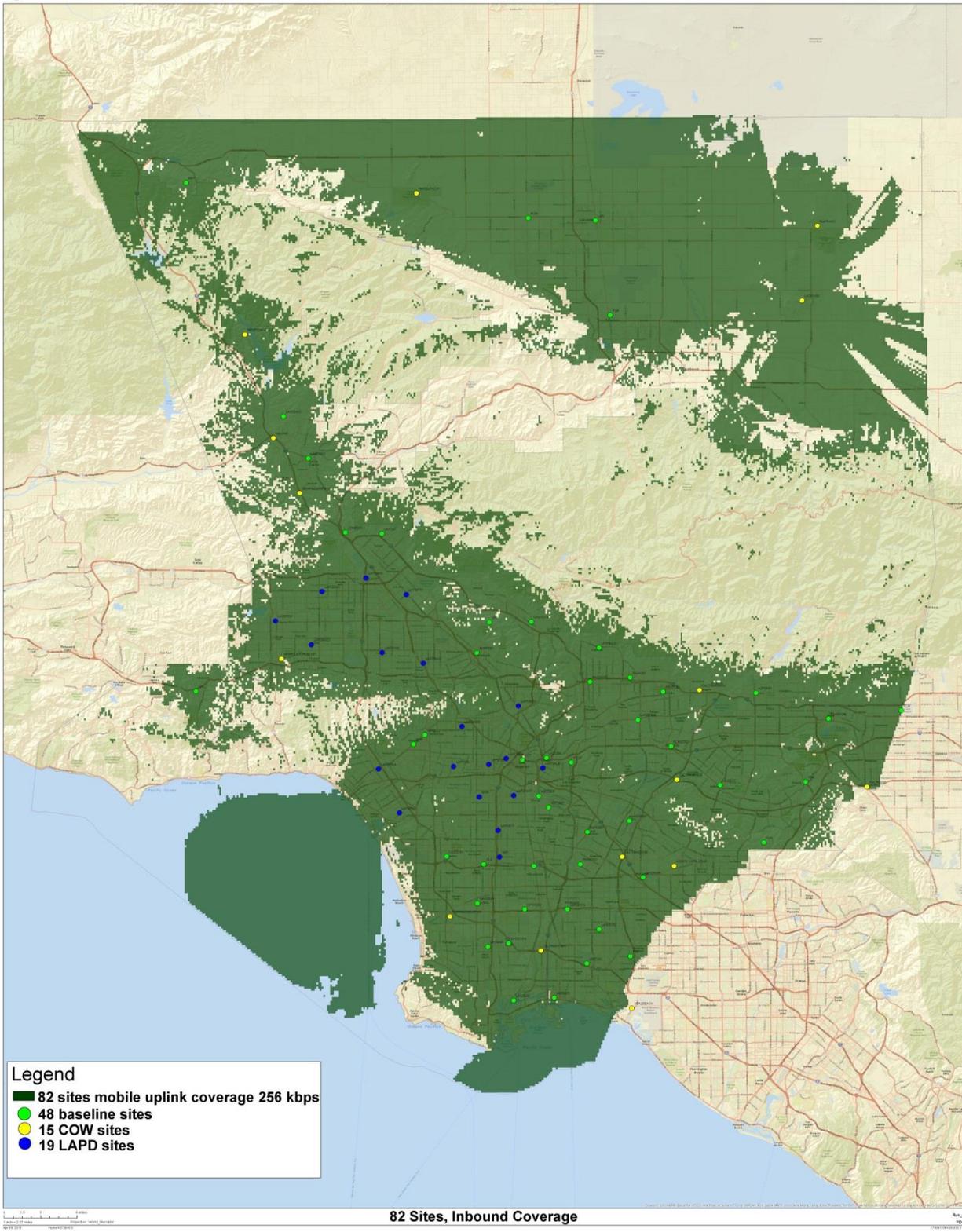
The City of Los Angeles is evaluating the issues related to the LTE project and is working with their relevant stakeholders to discuss their concerns. Due to the unavailability of many stakeholders within the time period requested, the City of Los Angeles requested additional time in which to provide a detailed response and expects to have its response available by April 23, 2015.

The mobile coverage provided by the inclusion of LAPD sites in the PSBN is represented in Figure 8 below.

Figure 8 - LA-RICS PSBN Mobile Coverage with LAPD Sites

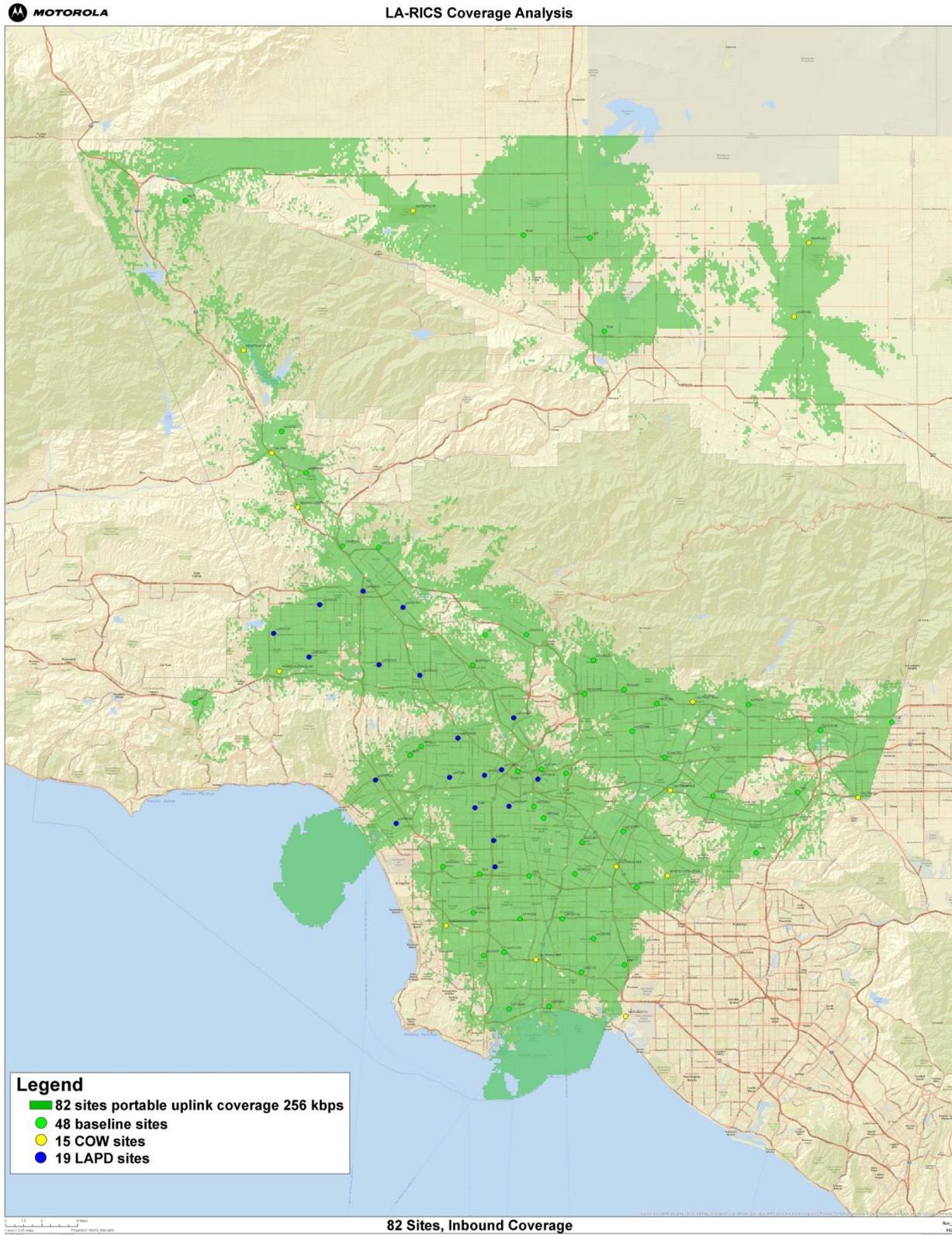


LA-RICS Coverage Analysis



A view of coverage from a portable (e.g., phone or tablet) device is depicted in Figure 9 below:

Figure 9 - LA-RICS PSBN Portable Coverage with LAPD Sites



If the LAPD sites were to re-engage in the program, the completion of the LAPD infrastructure will be easily integrated into the Implementation Schedule due to the significant progress that has already been achieved on these sites. The following is a brief description on LAPD sites relative to their current state of completion:

- 10 sites are 75% complete (inclusive of infrastructure, concrete pads, and towers erected where applicable)
- 5 sites are approximately 50% infrastructure complete
- 4 sites where construction has not yet started

Section 3 - Outreach

Pursuant to the action taken by the Los Angeles County Board of Supervisors on March 24, LA-RICS was required to conduct outreach efforts to its current and former members as well as the impacted employees and residents.

Construction activities for PSBN sites have drawn attention and concerns from residents located within close proximity to the Authority's sites. Most community members near LA-RICS PSBN sites probably know little about the project outside of what the County Fire Union (Local 1014) has expressed. It is critical to the continued progress of the program that important stakeholders are kept updated in order to avoid the continued propagation of inaccurate information.

Construction relations is a specialized form of community outreach for the construction phase of projects. The goal is to proactively provide information about the types and timing of construction activities so that community members are not surprised when construction begins. Proactive outreach also allows for the early identification of any issues or questions, allowing the team to provide answers before issues grow into entrenched concerns or opposition.

For LTE monopole sites, the specific objectives of construction relations include:

1. Maintain and expand positive relationships with local community members, on-site staff, independent and contract city staff, and elected officials.
2. Provide accurate and consistent information about the LA-RICS program and PSBN construction activities, its timing, and health and safety concerns to avoid continued proliferation of inaccurate information.

Approach and Timeline

The Outreach team is adopting a strategy to "right size" the community outreach for each PSBN site based on the category depicted in Exhibit A – Baseline PSBN Site List. The residential/mixed use/commercial groups will receive the following outreach efforts:

1. Type 1 - Residential Interface: Site is located in or immediately adjacent to a residential neighborhood. Of the 48 sites identified in Exhibit A, only two (2) are in residential areas. Of the two sites located in residential areas, the Supervisorial District has been notified and outreach has been made to the local Town Council, with a meeting scheduled for April 16, 2015. The City Manager and the Supervisorial District representing the other site will be contacted for outreach input once the Site Access Agreement has been fully executed between LA-RICS and the City of Long Beach.
 - Outreach activities will include:
 - Determine local city notification requirements.
 - Notify Board offices, City Council and city staff weeks prior to construction. Answer questions from staff, elected officials, neighborhood councils and HOAs that have been notified
 - Notify residents of upcoming public meeting via door hanger in advance of construction.

- Notify on-site staff of construction two weeks prior to construction. Hold an on-site meeting with staff, if staff requests.
 - Notify residents of construction via door hanger one week prior to construction.
 - Conduct outreach to neighborhood councils and HOAs as recommended by local city staff and elected officials.
2. Type 2 - Sites with A Mixed Use or Commercial designation: The predominant land use character within two block radius is stores, businesses, and/or offices. Outreach efforts, if required for these sites, could include:
- Determine local city notification requirements.
 - Notify Board offices, City Council and city staff weeks prior to construction. Answer questions from staff and elected officials.
 - Conduct outreach two weeks prior to construction to business associations, and/or Chambers of Commerce as recommended by local city staff and elected officials. Local city staff to provide input for period of time to notify organizations of upcoming meeting.
 - Notify on-site staff of construction two weeks prior to construction. Hold an on-site meeting with staff, if staff requests.
 - Notify businesses of upcoming construction activities via flyer one week prior to construction.

Regional Meetings

As requested by the Los Angeles County Board of Supervisors, LA-RICS will hold regional informational meetings. LA-RICS will hold at least five (5) regional informational meetings – one in each of the supervisorial districts, and more as needed, depending on the size of the district and the location of sites in those districts. The format for the Regional meetings will be consistent with community specific meetings and will be conducted to fulfill the following objectives:

- Communicate project purpose, need, and benefits
- Provide information about the proposed LA-RICS sites within the subject city.
- Educate the public on the important public safety aspects of the project, and Health and Safety aspects of the project
- Solicit community members’ questions and concerns, and provide answers to the extent possible

Community Specific Meetings

Working at the direction of each supervisorial office and the local jurisdiction, LA-RICS will also conduct community specific meetings with town councils and neighborhood groups, where needed and as requested. Planning for such meetings is already underway. LA-RICS representatives have already met with the Antelope Valley and San Dimas town councils in District Five (5) and the Lennox Coordination Council in District Two (2).

Public Meeting Support Team

For each meeting, a public meeting support team will be designated, consisting of the following members:

- Meeting coordinator from the Jacobs outreach team
- LA-RICS program representative
- LA-RICS technical representative
- Public safety representation from the relevant public safety agencies (e.g., County site would have County Sheriff and County Fire and City of Los Angeles site would have LAPD and LAFD representation).
- Representation from Motorola construction team as required

Suggested Format

1. Although input from city staff will be taken into consideration, the following general format will be followed.
 - Welcome/Agenda Overview: Project team members will be introduced and an overview of the agenda will be presented.
 - Who: LA RICS staff, law or fire representative from the appropriate agency
 - Allotted time: 5 minutes
2. LA-RICS Presentation: The LA-RICS public meeting coordinator will lead a PowerPoint presentation, customized for the subject member city. The presentation will include:
 - LA-RICS purpose, need, and benefits
 - The essential role that all proposed PSBN sites have for optimal functioning of the system
 - Overview of the proposed site and facilities within the subject city, including explanation of how sites were selected\
 - RF emission Health and Safety concerns
 - Applicable CEQA/NEPA compliance
 - Who: LA-RICS representative, law or fire representative from the appropriate agency
 - Allotted time: 15 minutes
3. Open House Period: Members of the public will be given an opportunity to directly pose questions about the project to the LA-RICS project team in an open house format.
 - Who: City staff with support from LA-RICS public meeting support team
 - Allotted time: 40 minutes
4. Materials

The following is a list of the materials needed to support the public meetings:

- Presentation materials
 - Poster boards (maps and project overview)
 - Video
 - PowerPoint presentation
 - Site photo simulation
5. Informational materials/handouts
- Construction Fact Sheet
 - FAQ
 - Health and Safety Fact Sheet
6. Meeting materials
- Sign-in sheet
 - Comment cards
 - Agenda

Public Education

In addition to construction relations activities, LA-RICS will undertake broader public education efforts in order to communicate the benefits and need for the LA-RICS project to the greater Los Angeles area. Education outreach tasks could include the following:

1. Monthly E-blast notifications: LA-RICS will work with cities and agencies to augment the e-blast notification list. E-blasts will highlight the features and benefits of the LA-RICS program, notify the public about upcoming meetings and provide important project updates other topics such as the funding plan.
2. Website Updates: LA-RICS and the Jacobs Outreach team will conduct a website audit to improve navigation, update information and provide updated quotes from supportive elected and public officials. Currently, the website features language and technical information useful for safety agencies but is missing vital information for residents, including the negligible impact of the PSBN site on health safety. The website will be updated with current photos of JPA board members.
3. Media Relations: LA-RICS will work with their outreach consultant to draft and place op-eds in major media outlets in the Los Angeles region. LA-RICS will draft media releases and work with local reporters to answer questions and to generate positive media coverage of major project milestones and accomplishments.
4. Project Materials: LA-RICS will work to update project materials to provide updated health and safety information related to RF emissions and construction activities. Materials will include updated fact sheets, FAQs, door hangers and PowerPoint slides. Poster boards and simulations will also be developed for use at public meetings.
5. Communication Education Materials: LA-RICS will create layman-appropriate messaging and educational materials for distribution to residents about the PSBN.

These materials will include brochures, fact-sheets and “success stories” of other urban communities that have instituted similar systems. They will include science-backed information regarding the negligible impacts of PSBN radio frequency emissions on public health, including a comparison with emissions from common electronic devices such as home wi-fi transmitters, Bluetooth earpieces, laptop computers and baby monitors.

6. **Third-Party Endorsers:** LA-RICS will work with local and county fire and police chiefs to speak on behalf of the project through media interviews and newspaper opinion pieces. Few other endorsers have the respect and knowledge to address the benefits of the PSBN in an authoritative way. In addition to seeking general press availability, LA-RICS will seek to mobilize the safety leaders in the more problematic communities through speeches and presentations to local civic organizations such as chambers of commerce, Rotary, and business groups. These groups typically include community influencers who shape local public opinion, and their support is important for reaching an understanding and buy-in for the project.
7. **Project Video:** LA-RICS will engage a video production specialist to produce a short 6-minute video promoting project benefits and needs. The video will include testimonials from prominent project supporters and law enforcement supporters. The video may be customized for use on website, social media and stakeholder e-blasts.
8. **Social Media (optional):** LA-RICS will develop a plan and social media calendar to improve the relevance and regularity of the existing project twitter account. LA-RICS may also develop a project Facebook page in order to post construction updates, photographs and invitations to community meetings.

Section 4 - Financial

Expenditures to date

Exhibit C – Modified Project Budget reflects expenditures incurred to date, including those invoiced and claimed, work authorized via Notices to Proceed, pending invoices, and claim submissions by consultants, as well as work that has not yet been authorized via amendment or change order, but estimated as potential claim. The Authority is currently evaluating, assessing, and negotiating the value of potential claims as well as partially completed work.

The Authority is aggressively pursuing credits for equipment that can be repurposed, returned or cancelled (for equipment not yet manufactured), and has required Motorola provide the Authority with the confirmation of equipment and credit value by no later than Wednesday April 15, 2015. These credits are not factored into the expenditures incurred.

Modified Project Budget

Exhibit C provides projected expenditures for completion of the plan, including design, construction, supplying PSBN components and system implementation on 46 Baseline sites and two (2) backhaul sites, the two sites from Department of Water and Power and Los Angeles Port Authority, as well as purchase and deployment of 15 COWs. The modified project budget also includes a line item of \$8.4 million for claims, a figure provided by Motorola, currently being assessed, evaluated and negotiated by the Authority. The project budget will be further updated to reflect equipment credits, as well as negotiated claims for work not yet identified, which is not included in the Base PSBN plan. In addition, the updated assessment of land valuation for the 46 Baseline and 2 backhaul sites will also be incorporated once completed.

Removal of Los Angeles City Fire, Los Angeles County Fire and Los Angeles Police Department sites significantly impacted the in-kind match total, formerly \$8.1 million reduced to \$2.2 million, resulting in a 17.60% match. Restoring 20 LAPD sites would increase the in-kind match by \$1,012,953, totaling 18.36%.

Due to the smaller number of sites in the LA-RICS PSBN system, the Authority is seeking direction from NTIA relative to the disposition of the Redundant Evolved Packet Core (EPC), designed for location at Los Angeles Police Department's Valley Dispatch Center. Exhibit D also reflects removal of all City of Los Angeles Police and Fire sites, as well as City of Los Angeles Fiber as in-kind match (\$3,431,700), if the City does not allow the Authority to use the fiber.

Finally, in order to implement the Base PSBN Plan, the Authority would require removal from Agency Review, allowing for advance draw-downs to pay invoices that will be substantial due to the further condensed construction period, because the Authority does not have enough cash-flow to fund.

Notice to Proceed(s)

Motorola was issued a Notice to Proceed (NTP) on March 10, 2014, by the Authority to commence with Phase 1 (System Design) Work for the 231 PSBN sites. That work and contract value is fully accounted for in Exhibit C, for a total Phase 1 value of \$14,877,794. In

addition, the Authority issued an NTP to allow Motorola to perform Phase 1 Work on two (2) Additive Alternates to the contract, a Home Subscriber Server (HSS) and the Redundant Evolved Packet Core (EPC), contemplated in Phase 1 value of Exhibit C.

The Authority issued subsequent NTP's pursuant to Phase 2 (Site Construction and Site Modification), Phase 3 (Supply PSBN Components), and Phase 4 (PSBN Implementation) which authorized Motorola to move forward with certain tasks including, but not limited to, ordering standard equipment for 150 PSBN sites, authorizing Motorola to begin construction on 131 PSBN sites (91 for County of Los Angeles, 31 City of Los Angeles, and 9 independent cities), and permitting Motorola to commence with Phase 4 Work for 75 PSBN sites which previously received authorization for Phase 2 and Phase 3 Work. Construction costs for sites with commenced and / or completed infrastructure are also contemplated in Exhibit C.

In addition to ordering standard equipment, the Authority issued NTP's, pursuant to Phase 3, to allow Motorola to order certain equipment such as In-Vehicle Routers for Special Operations Testing purposes, TMR cabinets, equipment for microwave links, PSBN components for the HSS and the Redundant EPC, routers for the County of Los Angeles Fire Department Fire Command and Control Facility (FCCF) and the City of Los Angeles Police Department Valley Dispatch Center (VDC). Equipment orders for 150 sites are accounted for in Exhibit C, but do not reflect credits for repurposed, returned or cancelled equipment.

The Authority also issued NTP's to Motorola to proceed with Phase 4 Work related to the installation of the System Management and Monitoring Subsystem (SMMS) at FCCF and to proceed with all Phase 4 Work related to the Redundant EPC at VDC. This work is contemplated in Exhibit C.

Section 5 - Environmental

From an environmental compliance perspective, the project can be summarized into four groups of sites: A) the Baseline PSBN sites, B) the COWs, C) the proprietary sites and D) the LAPD sites. Each site not previously analyzed will be the subject of an updated mitigation monitoring plan (an extension of the work already successfully being managed for the LA-RICS PSBN). In general, the reduced number of sites reduces the environmental workload. Each group is discussed below with the only new work comprised of the COW locations.

46 Baseline Sites Plus Two (2) Microwave Sites

A total of 32 sites have completed the NEPA and NHPA compliance processes. These sites include:

ARCPD01	FCCF	LASDCVS	LASDTEM
AZPD001	FS5	LASDIDT	LBPDHQ
BMT	GARD001	LASDLKD	MLM
CCT	LACHAR	LASDLNX	PASA001
CEN	LACOLV	LASDNCC	SLA
CLM	LACUSC	LASDNWK	VEFD001
CPTFD04	LASDALD	LASDPRV	VEFD003
ELMNTPD	LASDCSN	LASDSCV	WHD

Four (4) sites would be included in a revised Route Modification 03. NTIA has already reviewed and approved a larger Route Modification 03 request but has directed the Authority to pare the list down to match the newly proposed site list. These Route Modification 03 sites do not require SHPO consultation. Route Modification 03 can be resubmitted with 1-2 days of preparation.

BAH	BURPD01	RANCHO	SDW
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Five (5) sites appear complete from a NEPA/route modification perspective but would need to be reviewed by NTIA for exemption from SHPO review. These sites have been reviewed by the cultural resources staff and an exemption package was in preparation at the time of suspension. This group would require approximately five days to submit to NTIA for exemption review.

LAN	LASDSDM	LHS	PLM	WAL
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One (1) site (PHN) is a collocation site that appears complete from a NEPA/route modification

perspective but would need to be submitted for SHPO review to fulfill Section 106 requirements.

Five (5) sites would be included in a revised Route Modification 04. Similar to Route Modification 03, NTIA has directed LA-RICS to pare down Route Modification 04 to only those sites now in contemplation for the system. We anticipate Route Modification 04 can be submitted to NTIA within one week after resumption of activities. These require SHPO review, and we anticipate 2-3 weeks for submission of the FCC 621 forms for these sites. One site (PASDNPD) requires consideration by the LA-RICS JPA Board of Directors for statutory exemption from CEQA, and we anticipate this being added to the June Board of Directors Agenda. The PASDNPD site is at risk as it sits in an historic district. The sites in this group include:

BHR	LBECOC	LBFD012(N)	PASDNPD	VPC
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Another two (2) sites (BGPD001 and ONK) remain in contemplation in the Supplemental EA, which has been through a cycle of review by NTIA with minimal comment. Per NTIA direction, the Supplemental EA will be pared down to reflect the elimination of four sites (sites CJP, LACF054, LACF101, and LDWP243 are no longer in contemplation). Both sites in the supplemental EA require submission of FCC Form 620 to SHPO, and in turn need to be reviewed and approved by SHPO. SHPO has approved geotechnical investigation at each of these sites (the only unanalyzed sites remaining where new monopole construction is contemplated).

Based on an April 2, 2015 conference call between LA-RICS and United States Fish and Wildlife Service (USFWS), we anticipate development of an abbreviated, focused Biological Assessment that contains analysis of California condor at site ONK. Development of the EA can continue to pre-final, with the results of USFWS consultation contained in the Final EA. We anticipate 8 weeks for approval of the Supplemental EA and a FONSI, but only one week to develop the next iteration of the Supplemental EA.

15 COW Sites

NTIA has informed the Authority that all 15 COW sites contemplated for inclusion in the system would require review by NTIA through a Supplemental EA. Based on an initial screening, no sensitive resources (wetlands, critical habitat) occur at any of the proposed COW sites. No ground disturbance is anticipated at these sites for COW deployment, thus a limited Phase I investigation should not be required. The COW sites could be analyzed and submitted to NTIA in 3 weeks in EA format.

An analysis of the COW sites for consideration as exempted from SHPO review would also be submitted to NTIA, in accordance with the Nationwide Programmatic Agreement (NPA Appendix C to Part 1, Section III C). We believe we can provide this information to NTIA in 1-2 days.

Two Proprietary Sites

The two proprietary sites (LAPP001 and LDWP243) not included in the Baseline PSBN sites are discussed below.

- Site LAPP001 would require no further NEPA / route modification review. We would

include it with the five sites identified above as a candidate for exemption from SHPO review.

- Site LDWP243 would require analysis in the Supplemental EA, be subjected to SHPO consultation (through FCC Form 620) and informal consultation with the USFWS (due to its proximity to Critical Habitat for coastal California gnatcatcher). The site contains none of the primary constituent elements necessary for gnatcatcher, and is not in the known elevation range for the species.

19 LAPD Sites

Of the 19 LAPD sites that may yet be included in the project:

17 require no further NEPA or NHPA work. Two additional sites (LAPD077 and LAPDVNS) are discussed below:

- Site LAPD077 was in Route Modification 03, was previously found exempt from SHPO review by NTIA, and can be resubmitted as part of that package within one day.
- Site LAPDVNS was in Route Modification 04. This can be resubmitted as part of that package for NTIA review. This site requires submission of Form FCC 621 to SHPO.

LA-RICS Request

The Implementation Plan presented in this response to the CAP presents a clear path forward for the Authority to achieve its objectives and mission, which is to provide a robust public safety broadband network capable of providing a necessary service to the public safety personnel in the Los Angeles region. The Authority requests that NTIA, with the endorsement of both the NOAA Grants Office and FirstNet, approve the following aspects of the Authority's Implementation Plan:

1. Proceed forward with the construction and implementation of the Baseline PSBN Sites, which includes 46 eNodeB locations and two microwave-only sites;
2. Approve Augmentation Strategy #2 - allow for the purchase, outfitting, and placement of up to 15 COW locations strategically located throughout the operational area;
3. Approve Augmentation Strategy #3 – allow for the construction and implementation of two City of Los Angeles Proprietary sites, specifically LDWP243 (Los Angeles Department of Water and Power) and LAPP001 (Los Angeles Port Authority).

The Authority reiterates its position that each of these augmentation strategies provide tangible coverage and capacity benefits above and beyond those delivered by the Baseline PSBN alone. Approval of this implementation strategy will provide first responders in the Los Angeles region the technological tools and communications system that they require.

Exhibit A – LA-RICS Baseline PSBN Site List

This attachment is provided under a separate cover.

Site ID	Facility Name	Organization	Address Line	City	Zip Code	Jurisdiction	Parcel Owner	Proposed Antenna Support Structure Type	County Supervisorial District	Construction Start	Unincorporated Y/N	Neighborhood	Final CAP	Construction Completed Y/N	Comments
ARCPD01	Arcadia PD	City of Arcadia Police Dept	250 W Huntington Dr	Arcadia	91007	Arcadia	City of Arcadia	70' Monopole	5	4/30/2015		Commercial	Y		
AZPD001	Azusa PD	City of Azusa Police Dept	725 N Alameda Ave	Azusa	91702	Azusa	City of Azusa	70' Monopole/Palm	1	4/30/2015		Commercial	Y		
BGPD001	Bell Gardens PD	City of Bell Gardens Police Dept	7100 Garfield Ave	Bell Gardens	90201	Bell Gardens	City of Bell Gardens	70' Monopole	1	5/30/2015		Mixed Use	Y		
BHR	Beverly Hills Rexford Drive	City of Beverly Hills	464 N Rexford Dr	Beverly Hills	90210	Beverly Hills	City of Beverly Hills	Roof Mount	3	7/1/2015		Mixed Use	Y		
BMT	Bald Mountain	LA County ISD	46811 Ridge Route Rd	Gorman	93536	LA County	LA County	70' Monopole	5	4/26/2015	Y	Rural	Y		
BURPD01	Burbank PD	City of Burbank Police Dept	200 North 3rd Street	Burbank	91502	City of Burbank	City of Burbank	Roof Mount	5	6/11/2015		Commercial	Y		
CCT	Criminal Court Building	LA County Courts	210 W Temple St	Los Angeles	90012	City of Los Angeles	State of California	Roof Mount	1	5/31/2015		Commercial	Y		
CEN	Century	LA County Sheriff's Dept	11703 Alameda Rd	Lynwood	90262	Lynwood	LA County	70' Monopole	2	3/20/2015	Y	Commercial	Y		
CLM	Claremont Microwave Tower	City of Claremont Police Dept	1616 Monte Vista	Claremont	91711	City of Claremont	City of Claremont	Use Ex Ant Structure	1	6/6/2015		Commercial	Y		
CPTFD04	FS 4	City of Compton Fire Dept	950 West Walnut St	Compton	90220	City of Compton	City of Compton, Redevelopment Agency	70' Monopole	2	7/1/2015		Commercial	Y		
ELMNTPD	El Monte PD	City of El Monte Police Dept	11333 Valley Blvd	El Monte	91731	City of El Monte	City of El Monte	70' Monopole/Pine	1	5/17/2015		Commercial	Y		
FCCF	FCCF -HQ	LA County Fire Dept	1320 N Eastern Ave	Los Angeles	90063	LA County	LA County	70' Monopole	1	July		Commercial	Y		
FS5	FS 5	City of Long Beach Fire Dept	7575 E Wardlow Rd	Long Beach	90808	City of Long Beach	City of Long Beach	Use Ex Ant Structure	4	6/15/2015		Commercial	Y		
GARD001	Gardena	City of Gardena	1700 West 162nd St	Gardena	90247	City of Gardena	City of Gardena	Use Ex Ant Structure	2	7/1/2015		Mixed Use	Y		
LACHAR	LAC/Harbor+UCLA Medical Ctr	LA County Hospital	1000 W Carsons St.	Torrance	90502	LA County/OSHPD	LA County	Roof Mount	2	7/1/2015		Commercial	Y		
LACOLV	LAC/Oliveview+UCLA	LA County Hospital	14445 Olive View Dr.	Sylmar	91342	LA County/OSHPD	LA County	Roof Mount	5	7/1/2015		Commercial	Y		
LACUSC	LAC/USC Medical Ctr	LA County Hospital	1200 N State St	Los Angeles	90033	LA County/OSHPD	LA County	Roof Mount	1	7/1/2015		Commercial	Y		
LAN	Lancaster	LA County Sheriff's Dept	501 W Lancaster	Lancaster	93534	Lancaster	City of Lancaster	Use Ex Ant Structure	5	5/24/2015		Mixed Use	Y		
LASDALD	Altadena	LA County Sheriff's Dept	780 E Altadena Dr	Altadena	91001	LA County	LA County	70' Monopole	5	1/16/2015	Y	Mixed Use	Y	Y	
LASDCSN	Carson	LA County Sheriff's Dept	21356 S. Avalon Blvd	Carson	90745	Carson	LA County	70' Monopole	2	4/15/2015	Y	Mixed Use	Y		
LASDCVS	Crescenta Valley	LA County Sheriff's Dept	4554 Briggs Ave	La Crescenta	91214	LA County	LA County	45' Monopole	5	1/29/2015	Y	Residential	Y		
LASDIDT	Industry	LA County Sheriff's Dept	150 N Hudson Ave	Industry	91744	Industry	LA County	70' Monopole/flagpole	1	1/23/2015	Y	Commercial	Y		
LASDLKD	Lakewood	LA County Sheriff's Dept	5130 Clark Ave	Lakewood	90712	Lakewood	LA County	70' Monopole	4	4/23/2015	Y	Mixed Use	Y		
LASDLNX	Lennox (Closed)	LA County Sheriff's Dept	4331 Lennox Blvd	Inglewood	90304	County	LA County	70' Monopole	2	4/9/2015	Y	Mixed Use	Y		
LASDNCC	North County Correctional Facility	LA County Sheriff's Dept	29340 The Old Road	Castaic	91350	LA County	LA County	Use Ex Ant. Structure	5	3/26/2015	Y	Commercial	Y		
LASDNWK	Norwalk	LA County Sheriff's Dept	12335 Civic Center Dr	Norwalk	90650	Norwalk	LA County	70' Monopole	4	3/30/2015	Y	Mixed Use	Y	Y	
LASDPRV	Pico Rivera	LA County Sheriff's Dept	6631 Passons Blvd	Pico Rivera	90660	Pico Rivera	LA County	70' Monopole/Palm	1	3/26/2015	Y	Mixed Use	Y		
LASDSKV	Santa Clarita Valley	LA County Sheriff's Dept	23740 Magic Mountain Pkwy	Santa Clarita	91355	Santa Clarita	LA County	70' Monopole	5	2/27/2015	Y	Commercial	Y		
LASDSDM	San Dimas	LA County Sheriff's Dept	270 S. Walnut Ave.	San Dimas	91773	San Dimas	LA County	Use Ex Ant Structure	5	5/7/2015	Y	Mixed Use	Y		
LASDTEM	Temple	LA County Sheriff's Dept	8838 E. Las Tunas Dr	Temple City	91780	Temple City	LA County	70' Monopole	5	4/14/2015	Y	Mixed Use	Y		
LBECOC	Long Beach Emergency Comm & Op Center	City of Long Beach Fire Dept	2990 Redondo Ave	Long Beach	90806	City of Long Beach	City of Long Beach	Use Ex Ant Structure	4	6/15/2015		Commercial	Y		
LBFD012(N)	FS 12(N)	City of Long Beach Fire Dept	1199 E. Artesia Blvd.	Long Beach	90805	City of Long Beach	City of Long Beach	Use Ex Ant Structure	4	6/15/2015		Residential	Y		
LBPDHQ	HQ	City of Long Beach Police Dept	400 West Broadway	Long Beach	90802	Long Beach	City of Long Beach	Roof Mount	4	6/15/2015		Mixed Use	Y		
LHS	Lost Hills/Malibu	LA County Sheriff's Dept	27050 Agoura Rd	Agoura	91301	Calabasas	LA County	Use Ex Ant Structure (retrofit)	3	3/31/2015	Y	Commercial	Y		

Site ID	Facility Name	Organization	Address Line	City	Zip Code	Jurisdiction	Parcel Owner	Proposed Antenna Support Structure Type	County Supervisorial District	Construction Start	Unincorporated Y/N	Neighborhood	Final CAP	Construction Completed Y/N	Comments
MLM	Mira Loma Detention Facility	LA County Sheriff's Dept - Jail	45100 N. 60th West	Lancaster	93536	Lancaster	LA County	70' Monopole	5	3/30/2015	Y	Rural	Y		
ONK	Oat Mountain Nike	LA County	N 34.3260° W118.5867°	Chatsworth	91311	LA County	LA County	70' Monopole	5	6/15/2015	Y	Rural	Y		
PASA001	Goodrich	City of Pasadena	Avocado Ave	Pasadena	91104	Pasadena	City of Pasadena	Use Ex Ant Structure	5	6/15/2015		Mixed Use	Y		
PASDNPD	Pasadena Police	City of Pasadena Police Dept	Ramona St.	Pasadena	91101	Pasadena	City of Pasadena	Roof Mounted	5	6/15/2015		Commercial	Y		
PHN	Puente Hills	LA County ISD	Near Vantage Point Dr	Rowland Heights	91748	LA County	LA County	Use Ex Ant Structure	4	6/1/2015	Y	Rural	Y		
PLM	Palmdale	LA County Sheriff's Dept	750 East Avenue Q	Palmdale	93550	Palmdale	LA County	Use Ex Ant Structure	5	4/6/2015	Y	Mixed Use	Y		
RANCHO	LAC/Rancho Los Amigos Natl. Rehab	LA County Hospital	7601 E Imperial Hwy	Downey	90242	City of Downey	LA County	Roof Mount	4	6/14/2015	Y	Mixed Use	Y		
SDW	San Dimas	LA County	310 Via Blanca	San Dimas	91773	City of San Dimas	LA County	Use Ex Ant Structure	5	6/15/2015	Y	Mixed Use	Y		
SLA	South LA.	LA County Sheriff's Dept	1310 W. Imperial Hwy	Los Angeles	90044	County	LA County	Use Ex Ant Structure	2	4/15/2015	Y	Mixed Use	Y		
VEFD001	FS 1	City of Vernon Fire Dept	3375 Fruitland Ave	Vernon	90058	Vernon	City of Vernon	70' Monopole	1	1/29/2015		Commercial	Y	Y	
VEFD003	FS 3	City of Vernon Fire Dept	2800 Soto Street	Vernon	90058	Vernon	City of Vernon	70' Monopole	1	3/30/2015		Commercial	Y	Y	
VPC	Verdugo Peak	City of Los Angeles	Verdugo Mountain Way	Glendale	91208	City of Glendale	LA County	Use Ex Ant Structure	5	6/15/2015	Y	Rural	Y		
WAL	Walnut/Diamond Bar	LA County Sheriff's Dept	21695 E. Valley Blvd	Walnut	91789	Walnut	LA County	Use Ex Ant Structure	1	4/6/2015	Y	Commercial	Y		
WHD	West Hollywood	LA County Sheriff's Dept	720 N San Vicente Blvd	West Hollywood	90069	West Hollywood	LA County	70' Monopole	3	5/23/2015	Y	Commercial	Y		

Total

48

LA-RICS Potential COW Locations

Site Name	In Present Design	Latitude	Longitude	Elevation	Ownership	Notes
ANTELPVLYP&RPO		34°43'56.00"	118°23'44.00"W	2820	State	Resolves a significant issue in the Northern Desert
MIKEPEAKVAULT	y	34.56388889	118.6430556	2320	State	DWR site which may prove difficult to secure.
NEWHALLOTMS3	y	34.37444444	118.5641667	1340	Unknow	Need validation of ownership
SEALBEACH	Y	33.75666667	118.0852778	16	Boeing	Question whether there is private land in that former DoD space.
TORRANCEDOTMS	y	33.86694444	118.3472222	77	State	18101 Bailey Drive, Torrance, CA 90504
VALENCIACHPAR		34.44027778	118.6019444	1025	Private	Twin above is NEWHALLOTRO
WOODLANDHLCHPAR	Y	34.17611111	118.5905556	843	State	
New Locations						
CALTRANS 405/710 Interchange	Y	33°49'33.30"N	118°12'59.83"W			22101 Santa Fe Ave., Long Beach
CALTRANS 605/5 Interchange	y	33°56'19.82"N	118° 5'57.36"W			10903 Florence Ave., Downey
CALTRANS 605/60 Interchange	Y	34° 1'53.23"N	118° 1'13.15"W			1940 S. Workman Mill Rd., Whittier
CALTRANS Monrovia Yard	Y	34° 8'19.14"N	117°59'15.82"W			850 E. Huntington Dr., Monrovia
CALTRANS 71/60 Interchange	Y	34° 1'21.98"N	117°44'46.72"W			2650 South Garey Ave, Pomona
Existing LA-RICS Member-Agency COW Locations						
Blue Rock -2	Y	34°41'36.26"N	117°49'5.01"W	2815		Site owned by LA County. Possible replacement for BRK. (LA County DPW)
Monte Vista Star Center	Y	33.9277667	-118.0244611			LA County
LADPW38 (Hoyt Storage)	Y	34°36'15.78"N	117°50'24.04"W			LADPW (replaces LACF 114 and BRK)
USACOE		34° 9'46.47"N	118°27'58.97"W			
Total State of California Sites		12				
Total LA-RICS Member Sites		3				
Total Potential COW Locations		15				

Site ID	Facility Name	Organization	Address Line	City	Zip Code	Jurisdiction	Parcel Owner	Proposed Antenna Support Structure Type	County Supervisorial District	Construction Start	Unincorporated Y/N	Neighborhood	Final CAP	Construction Completed Y/N	Construct Starts	Parcel Owner per Assessor's Office	Comments
LAPP001	Los Angeles Port Police	Los Angeles Port Authority	400 Yacht St (Boat)	Wilmington	90744	City of Los Angeles, Harbor Dept. Coastal Commission	City of Los Angeles, Harbor Dept	Use Ex Ant Structure	4	6/15/2015		Commercial	Y		y		
LDWP243	Aqueduct Cascades	City of Los Angeles DWP	13801 Balboa Blvd	Sylmar	91342	City of Los Angeles/DWP	City of Los Angeles, Dept of Water and Power	70' Monopole	3	7/1/2015		Rural	Y		y		

Exhibit B – LA-RICS Baseline Implementation Schedule

This attachment is provided under a separate cover.



LA RICS LTE Construction Activities With Leveling

13-Apr-15 13:01
Page: 1 of 1
PSBN Replan

Data Date: 13-Apr-15

■ Remaining Level of Effort ◆ Critical Remaining Work
■ Actual Level of Effort ◆ Milestone
■ Remaining Work
■ Actual Work

Activity ID	Activity Name	Start	Finish	Resource IDs	Neighborhood	Original Duration	Activity Leveling Priority	LA-RICS Site Name [O]	April 2015		May 2015				June 2015				July 2015				August 2015				September 2015				October 2015							
									9	05	12	19	26	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	
Total		16-Jan-15 A	30-Sep-15			132																																
A1427	Construction	16-Jan-15 A	27-Feb-15 A	Construction	Mixed Use	20	1 - Top	L.A.LASDALD																														
A1448	Construction	30-Jan-15 A	27-May-15	Construction	Mixed Use	30	1 - Top	L.A.LASDNWK																														
A1250	Construction	20-Mar-15 A	05-Jun-15	Construction	Commercial	30	1 - Top	L.A.CEN																														
A1445	Construction	26-Mar-15 A	05-Jun-15	Construction	Commercial	25	1 - Top	L.A.LASDNCC																														
A1010	Construction	07-May-15*	01-Jul-15	Construction	Commercial	39	2 - High	L.A.ARCPD01																														
A1442	Construction	11-May-15*	01-Jul-15	Construction	Mixed Use	37	1 - Top	L.A.LASDLNX																														
A1457	Construction	11-May-15*	01-Jul-15	Construction	Mixed Use	37	2 - High	L.A.LASDTEM																														
A1475	Construction	11-May-15*	01-Jul-15	Construction	Rural	37	1 - Top	L.A.MLM																														
A1040	Construction	08-May-15*	02-Jul-15	Construction	Commercial	39	2 - High	L.A.AZPD001																														
A1430	Construction	18-May-15*	02-Jul-15	Construction	Mixed Use	33	2 - High	L.A.LASDCSN																														
A1460	Construction	26-May-15*	06-Jul-15	Construction	Commercial	29	3 - Normal	L.A.LBECOC																														
A1511	Construction	08-Jun-15*	07-Jul-15	Construction	Commercial	21	1 - Top	L.A.WHD																														
A1481C	Construction	27-Feb-15 A	08-Jul-15	Construction	Commercial	30	2 - High	L.A.LASDSCV																														
A1484	Construction	12-Jun-15*	09-Jul-15	Construction	Commercial	19	2 - High	L.A.PASDNP																														
A1466	Construction	10-Jun-15*	10-Jul-15	Construction	Mixed Use	22	3 - Normal	L.A.LBPDHQ																														
A1160	Construction	16-Jun-15*	17-Jul-15	Construction	Rural	23	2 - High	L.A.BMT																														
A1190	Construction	23-Jun-15*	20-Jul-15	Construction	Commercial	19	2 - High	L.A.BURPD01																														
A1505	Construction	24-Jun-15*	21-Jul-15	Construction	Rural	19	2 - High	L.A.VPC																														
A1487	Construction	09-Jul-15*	22-Jul-15	Construction	Rural	10	2 - High	L.A.PHN																														
A1220	Construction	26-Jun-15*	23-Jul-15	Construction	Commercial	19	2 - High	L.A.CCT																														
A1607	Construction	01-Jun-15*	24-Jul-15	Construction	Commercial	39	2 - High	L.A.FS5																														
A1421	Construction	22-Jun-15*	28-Jul-15	Construction	Commercial	26	2 - High	L.A.LAFD049																														
A1439	Construction	03-Jun-15*	28-Jul-15	Construction	Mixed Use	39	2 - High	L.A.LASDLKD																														
A1493	Construction	03-Jun-15*	28-Jul-15	Construction	Mixed Use	39	3 - Normal	L.A.RANCHO																														
A1454	Construction	02-Jul-15*	29-Jul-15	Construction	Mixed Use	19	2 - High	L.A.LASDSDM																														
A1310	Construction	06-Jul-15*	30-Jul-15	Construction	Commercial	19	2 - High	L.A.CPTFD04																														
A1481	Construction	12-Jun-15*	31-Jul-15	Construction	Mixed Use	35	3 - Normal	L.A.PASA001																														
A1280	Construction	11-Jun-15*	07-Aug-15	Construction	Commercial	41	2 - High	L.A.CLM																														
A1340	Construction	13-Jul-15*	07-Aug-15	Construction	Commercial	20	2 - High	L.A.ELMNTPD																														
A1433	Construction	29-Jan-15 A	10-Aug-15	Construction	Residential	5	4 - Low	L.A.LASDCVS																														
A1400	Construction	13-Jul-15*	11-Aug-15	Construction	Commercial	22	2 - High	L.A.GARD001																														
A1424	Construction	17-Jun-15*	11-Aug-15	Construction	Mixed Use	39	2 - High	L.A.LAN																														
A1469	Construction	15-Jul-15*	11-Aug-15	Construction	Rural	20	2 - High	L.A.LDWP243																														
A1496	Construction	17-Jun-15*	11-Aug-15	Construction	Mixed Use	39	1 - Top	L.A.SLA																														
A1370	Construction	17-Jul-15*	13-Aug-15	Construction	Commercial	20	2 - High	L.A.FCCF																														
A1604	Construction	21-Jul-15*	14-Aug-15	Construction		19	3 - Normal	L.A.SDW																														
A1436	Construction	05-Aug-15*	18-Aug-15	Construction	Commercial	10	1 - Top	L.A.LASDIDT																														
A1478	Construction	22-Jul-15*	18-Aug-15	Construction	Rural	20	2 - High	L.A.ONK																														
A1451	Construction	01-Apr-15 A	21-Aug-15	Construction	Mixed Use	20	1 - Top	L.A.LASDPRV																														
A1472	Construction	01-Jul-15*	25-Aug-15	Construction	Commercial	39	3 - Normal	L.A.LHS																														
A1490	Construction	01-Jul-15*	25-Aug-15	Construction	Mixed Use	39	2 - High	L.A.PLM																														
A1601	Construction	20-Jul-15*	11-Sep-15	Construction	Mixed Use	39	3 - Normal	L.A.BAH																														
A1130	Construction	23-Jul-15*	15-Sep-15	Construction	Mixed Use	38	4 - Low	L.A.BHR																														
A1508	Construction	22-Jul-15*	15-Sep-15	Construction	Commercial	39	2 - High	L.A.WAL																														
A1412	Construction	21-Aug-15*	17-Sep-15	Construction	Mixed Use	19	3 - Normal	L.A.LACHAR																														
A1415	Construction	21-Aug-15*	17-Sep-15	Construction	Commercial	19	2 - High	L.A.LACOLV																														
A1418	Construction	21-Aug-15*	17-Sep-15	Construction	Commercial	19	2 - High	L.A.LACUSC																														
A1070	Construction	23-Jul-15*	25-Sep-15	Construction	Mixed Use	46	4 - Low	L.A.BGPD001																														
A1463	Construction	23-Jul-15*	30-Sep-15	Construction	Residential	49	4 - Low	L.A.LBFD012N																														

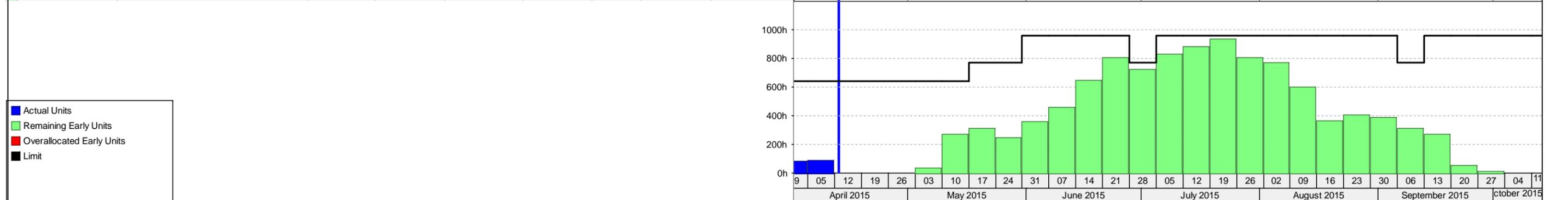


Exhibit C - Modified Project Budget

BTOP				
Motorola	Cost	Subtotals		Notes
Phase 1	\$ 14,877,794			Total cost for Phase 1, System Design of 232 sites
Phase 2	\$ 13,592,514			Construction of 46 sites, plus those completed/started to date
Phase 3	\$ 27,186,493			Total equipment ordered/NTPd to date for 150 sites
Phase 4	\$ 3,300,892			Implementation of 48 sites
Future NTPs/Claims	\$ 8,391,547	\$ 67,349,240		From Motorola, pending final negotiation
Consultants				
Jacobs	\$ 9,600,859			Max Contract Sum
Televate	\$ 6,027,000			Max Contract Sum
UltraSystems	\$ 4,046,890			Max Contract Sum
Other	\$ 30,405	\$ 19,705,154		Procurement Evaluator
COWS	\$ 3,000,000	\$ 3,000,000		15 COWS @ \$200,000 each
BTOP, Total		\$ 90,054,394		
LA-RICS Match				
Cash:	Cost	Subtotals	Match %	Notes
Cash-Admin and Legal	\$ 5,957,131			Modified Budget
Cash-A & E	\$ 805,994	\$ 6,763,125	6.19%	Modified Budget
In Kind				
In Kind-Admin and Legal	\$ 3,019,851			Modified Budget
In Kind Office Lease	\$ 74,453			Modified Budget
In Kind-A & E	\$ 600,000			Modified Budget
Land-48 Sites	\$ 2,196,502			46 base sites + 2 backhaul sites - Pending Updated Valuation
Land-COW Sites	\$ 184,705			Cow Site Valuation * 5 months (May - Sept)
Land-Data Center FCCF	\$ 1,653,030			Modified Budget
Land-Data Center FCCF Lease Cost	\$ 180,000			Modified Budget
Land-Data Center SCC	\$ 81,000			Modified Budget
In Kind-Equipment (RAN cost share)	\$ 1,257,008			28 County sites in Plan=12% of Modified Budget value (\$10,415,207)
In Kind-Equipment (MW backhaul)				Removed - 46 sites will not use existing County MW
In Kind-Equipment LA City fiber)				Removed - Pending status of LAPD sites and use of 2nd Core
In Kind-Miscellaneous (device provisioning)	\$ 3,225,000	\$ 12,471,549	11.41%	5,000 devices @ \$645 each
LA-RICS Match, Total		\$ 19,234,674	17.60%	
BTOP+Total Match (Total Project Cost)		\$ 109,289,068		
20% Match Requirement		\$ 21,857,814		
Variance		\$ (2,623,140)		