

0150-12284-0000

TRANSMITTAL

TO The City Council	DATE 06/14/2023	COUNCIL FILE NO.
FROM The Mayor	COUNCIL DISTRICT All	

Agreement with the County of Los Angeles for the Acquisition of Imagery and Associated Products from the Los Angeles Region Imagery Acquisition Consortium (LARIAC7) Project

Transmitted for your consideration. The Council has 60 days from the date of the receipt to act; otherwise, the agreement will be deemed approved pursuant to Charter Section 606.
See the City Administrative Officer report attached.



MAYOR
(Chris Thompson for)

REPORT FROM**OFFICE OF THE CITY ADMINISTRATIVE OFFICER**


Date: May 18, 2023

CAO File No. 0150-12284-0000

Council File No.

Council District: All

To: The Mayor

From: *for* Matthew W. Szabo, City Administrative Officer 

Reference: Board of Public Works Report dated February 15, 2023; referred for report by the Mayor on February 15, 2023

Subject: **LOS ANGELES REGION IMAGERY ACQUISITION CONSORTIUM (LARIAC7) PROJECT****RECOMMENDATIONS**

That the Council, subject to the approval of the Mayor:

1. Authorize the City Engineer, or designee, to execute the Participant Agreement with the County of Los Angeles on behalf of the City of Los Angeles and pay to the County of Los Angeles \$769,535 for the acquisition of imagery and associated products from the County-wide Los Angeles Region Imagery Acquisition Consortium (LARIAC7) Project;
2. Request the Controller to transfer the following amounts from the City departments and bureaus identified in the table below, totaling \$769,535 from various departmental appropriation units to a new account entitled "LARIAC7 Project" in the Engineering Special Services Fund No. 682, Department No. 50 in order for the Bureau of Engineering to provide one centralized payment to the County of Los Angeles for the LARIAC7 Project:

Department	Fund No.	Dept No.	Appropriation Unit No.	Amount
Department of City Planning	588	68	003040	\$ 47,696.43
Port of Los Angeles	702	42	001000	\$ 47,696.43
Los Angeles Department of Building and Safety	230	08	W530	\$ 135,392.68
Bureau of Sanitation	100	82	003040	\$ 47,696.43
Los Angeles Police Department	100	70	003040/90355	\$ 47,696.43
Bureau of Engineering	100	78	001090	\$ 47,696.43
Bureau of Street Services	100	86	003040	\$ 47,696.43
Los Angeles Fire Department	100	38	003040	\$ 47,696.43
Department of Recreation and Parks	302	89	89712H	\$ 47,696.43
Los Angeles Department of Water and Power (LADWP)	51	98	5166	\$ 126,285.44
	01	98	5166	\$ 126,285.44

TOTAL: \$ 769,535.00

3. Direct all the General Managers or their designees of the various City departments and Department of Public Works bureaus identified in the above recommendations to complete the transfer of funds in coordination with the Controller's Office; and,
4. Authorize the Bureau of Engineering, subject to the approval of the City Administrative Officer, to make technical corrections as necessary to the transactions included in this report in order to implement Mayor and Council intentions.

SUMMARY

In accordance with Executive Directive No. 3, the Bureau of Engineering (Bureau) requests authority to execute the proposed Participant Agreement with the County of Los Angeles for the acquisition of imagery and associated products from the countywide Los Angeles Region Imagery Acquisition Consortium (LARIAC7) Project. The LARIAC is a consortium of the County of Los Angeles, in partnership with cities and agencies, which collaboratively acquires digital aerial data, including imagery and elevation data. Since 2006, the City has been a participant in the LARIAC Project, which is in the seventh cycle (LARIAC7) of digital aerial data acquisition. The LARIAC imagery data is updated every two to three years. The term of this Agreement is three years for a total cost of \$769,535, which is split among nine City departments that have confirmed their participation in the LARIAC7 Project as shown in the table above.

The Bureau of Engineering currently serves as the contract administrator for the City on the Agreement. Under this Agreement, the City will have access and physical delivery of LARIAC7 data and online access to prior LARIAC data. The contribution amounts of the participating cities are calculated based on the individual city's geographic area and population as established by the original LARIAC Project and approved by the Mayor and the City Council (C.F. Nos. 06-0445 and 09-0565). The proposed Participant Agreement is an inter-governmental agency contract and therefore, is exempt from compliance with Charter Section 1022.

The Bureau reports that the advantages of participating in the LARIAC are as follows:

- Reduced cost since the cost is shared among all public agencies that opted to participate in the consortium;
- A large pool of information acquired than individually procuring the digital aerial data; and,
- An unlimited license to use the digital data for City's purposes, including the right to transfer, sublicense, and distribute the data to subcontractors or consultants on projects.

FISCAL IMPACT STATEMENT

There is no additional General Fund impact. Approval of the recommendations in this report will allow the Bureau of Engineering to pay \$769,535 to the County for the acquisition of imagery data from the Los Angeles Region Imagery Acquisition Consortium project (LAR-IAC 7). Sufficient funding is available within the various department's budget to fund their share of cost.

FINANCIAL POLICIES STATEMENT

The recommendation in this report complies with the City's Financial Policies in that sufficient budgeted funding is available to support proposed expenditures.

MWS:SMC:06230137

Attachments

**BOARD OF PUBLIC WORKS
MEMBERS**

AURA GARCIA
PRESIDENT

M. TERESA VILLEGAS
VICE PRESIDENT

DR. MICHAEL R. DAVIS
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VAHID KHORSAND
COMMISSIONER

SUSANA REYES
COMMISSIONER

CITY OF LOS ANGELES

CALIFORNIA



Karen Bass

MAYOR

**OFFICE OF THE
BOARD OF PUBLIC WORKS**

DR. FERNANDO CAMPOS
EXECUTIVE OFFICER

200 NORTH SPRING STREET
ROOM 361, CITY HALL
LOS ANGELES, CA 90012

TEL: (213) 978-0261
TDD: (213) 978-2310
FAX: (213) 978-0278

<http://bpw.lacity.org>

February 15, 2023

BPW-2023-0081

The Honorable Mayor Bass
City Hall – Room 320
Los Angeles, CA 90012
Attn: Heleen Ramirez

PARTICIPANT AGREEMENT AND FUNDING – LOS ANGELES REGION IMAGERY ACQUISITION CONSORTIUM DATA REFRESH PROJECT

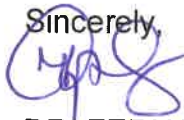
As recommended in the accompanying report from the City Engineer, which this Board has adopted, the Board of Public Works (Board) recommends that the Mayor and City Council:

1. AUTHORIZE the City Engineer, or a designee, to execute the Participant Agreement with the County of Los Angeles on behalf of the City of Los Angeles and to pay to the county \$769,535 for the acquisition of imagery and associated products from the countywide Los Angeles Region Imagery Acquisition Consortium (LARIAC)7 Project, associated with the Letter of Intent signed on April 19, 2022;
2. APPROVE funding in the amount of \$47,696.43 from Fund No. 100, Department No. 78, Appropriation Unit No. 001090 for the Bureau of Engineering's (BOE) participation in the countywide LARIAC7 Project;
3. REQUEST the Controller's Office to transfer the following amounts from the City departments and bureaus identified in this report, totaling \$769,535 from various departmental appropriation units to the new appropriation unit in the Engineering Special Services Fund No. 682, Department No. 50, titled "LARIAC7 Project," so that the BOE can make a full payment to the county for the LARIAC7 Project;

4. DIRECT all the General Managers or their designees of the various City departments and Department of Public Works bureaus identified in the above recommendation to complete the transfer of funds in coordination with the Controller's Office.

Fiscal Impact:

This proposed expenditure complies with the City's financial policies in that available current year balances will be used to support this one-time cost.

Sincerely,


DR. FERNANDO CAMPOS,
Executive Officer, Board of Public Works

FC:lc

Department of Public Works
Bureau of Engineering
Report No. 1

ADOPTED BY THE BOARD
PUBLIC WORKS OF THE CITY
of Los Angeles California
AND REFERRED TO THE MAYOR
FEB 15 2023

February 15, 2023
CD Nos. All

AND REFERRED TO THE CITY COUNCIL
Wanda
Executive Officer
Board of Public Works

LOS ANGELES REGION IMAGERY ACQUISITION CONSORTIUM DATA REFRESH PROJECT

RECOMMENDING THE BOARD OF PUBLIC WORKS (BOARD):

ADOPT and FORWARD this report and transmittals to the City Council with the recommendations that it:

- a. AUTHORIZE, subject to the approval of the Mayor, the City Engineer, or a designee, to execute the Participant Agreement (Transmittal No. 1) with the County of Los Angeles (County) on behalf of the City of Los Angeles (City) and to pay to the County \$769,535 for the acquisition of imagery and associated products from the countywide Los Angeles Region Imagery Acquisition Consortium (LARIAC)7 Project, associated with the Letter of Intent signed on April 19, 2022 (Transmittal No. 2).
- b. APPROVE funding in the amount of \$47,696.43 from Fund No. 100, Department No. 78, Appropriation Unit No. 001090 for the Bureau of Engineering's (BOE) participation in the countywide LARIAC7 Project.
- c. REQUEST the Controller's Office to transfer the following amounts from the City departments and bureaus identified in this report, totaling \$769,535 from various departmental appropriation units to the new appropriation unit in the Engineering Special Services Fund No. 682, Department No. 50, titled "LARIAC7 Project," so that the BOE can make a full payment to the County for the LARIAC7 Project.

From:

Department Name	Fund No.	Department* No.	Appropriation Unit No.	Amount
Department of City Planning (Planning)	588	68	003040	\$ 47,696.43
Port of Los Angeles (POLA)	702	42	001000	\$ 47,696.43
Los Angeles Department of Building and Safety (LADBS)	530	08	W530	\$135,392.68
LA Sanitation and Environment (LASAN)	100	82	003040	\$ 47,696.43
Los Angeles Police Department (LAPD)	100	70	003040/90355	\$ 47,696.43
BOE	100	78	001090	\$ 47,696.43
Bureau of Street Services (StreetsLA)	100	86	003040	\$ 47,696.43
Los Angeles Fire Department (LAFD)	100	38	003040	\$ 47,696.43
Department of Recreation and Parks (RAP)	302	89	89712H	\$ 47,696.43
Los Angeles Department of Water and Power (LADWP)	51	98	5166	\$126,285.44
LADWP	01	98	5166	\$126,285.44
Total				\$769,535.00

Report No. 1

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To: Engineering Special Services, Fund No. 682, Department No. 50, Appropriation Unit No. (To Be Determined), \$769,535.

- d. DIRECT all the General Managers or their designees of the various City departments and Department of Public Works bureaus identified in the above recommendation to complete the transfer of funds in coordination with the Controller's Office.

FISCAL IMPACT STATEMENT

This proposed expenditure complies with the City's financial policies in that available current year balances will be used to support this one-time cost.

TRANSMITTALS

1. Copy of the County LARIAC7 project description which includes the unsigned Participant Agreement for LARIAC7 as an attachment.
2. Copy of the signed Letter of Intent for the LARIAC7.

DISCUSSION

Background

The LARIAC is a legal entity formed by the County, consisting of many cities within the County which pools participant resources to obtain aerial photographic imagery, elevation contour lines, building footprints, and other data to benefit both the individual cities and the entire County (Transmittal No. 2). In the City, several departments used the digital terrain and digital aerial image data acquired through the LARIAC1 project in 2006, the LARIAC2 project in 2008, the LARIAC3 project in 2010, the LARIAC4 project in 2013, the LARIAC5 project in 2017 and the LARIAC6 project in 2020. The LARIAC imagery data is updated every two to three years.

This aerial imagery data provides great value to the City. It is shown on the Planning's Zone Information and Map Access System, and the BOE's NavigateLA web application. In addition, the LADBS uses the aerial images in conjunction with existing Geographic Information System (GIS) data for inspection activities, parcel research, plan check, and for processing building permits. The LAPD, the LAFD, the POLA, the LADWP, and the LASAN use the GIS data for maps and analysis that can be used for planning and construction purposes. Perhaps most importantly, this imaging data is available for use by all departments during emergencies.

Department of Public Works
Bureau of Engineering
Report No. 1

February 15, 2023
Page 3

The contribution amounts of participating cities are calculated based on the individual city's geographic area and population as established by the original LARIAC Project and approved by the Mayor and the City Council (Council File Nos. 06-0445, 09-0565, 17-1057 and 20-1444). Accordingly, the City's cost to participate in the project was calculated to be \$769,535.

The City's contribution of \$769,535 would come from various benefiting departments, as follows:

Department Name	Fund No.	Department No.	Appropriation Unit No.	Amount
Planning	588	68	003040	\$ 47,696.43
POLA	702	42	001000	\$ 47,696.43
LADBS	530	08	W530	\$135,392.68
LASAN	100	82	003040	\$ 47,696.43
LAPD	100	70	003040/90355	\$ 47,696.43
BOE	100	78	001090	\$ 47,696.43
Streets LA	100	86	003040	\$ 47,696.43
LAFD	100	38	003040	\$ 47,696.43
RAP	302	89	89712H	\$ 47,696.43
LADWP	51	98	5166	\$126,285.44
LADWP	01	98	5166	\$126,285.44
Total				\$769,535.00

At this time, the City Council approval of the funding is required along with the corresponding fiscal transfers so that the payment for the City's participation in LARIAC7 can be made. Funding from each of these sources is available as enumerated in the above table. The funding from the various sources of funds will be transferred to the Engineering Special Services Fund "LARIAC7 Project" appropriation unit to provide one centralized payment to the County.

Report No. 1

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(EA RMK CL)

Report reviewed by:

BOE (ADM)

Report prepared by:

GIS and Mapping Division

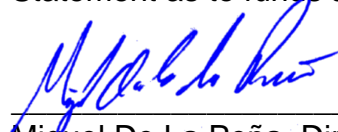
Essam Amarragy, PE
Division Engineer
Phone No. (213) 482-7122

Respectfully Submitted by:

 A blue ink signature of Ted Allen, with a red digital stamp overlaying it.

Ted Allen, PE
City Engineer

Statement as to funds approved by:

 A blue ink signature of Miguel De La Peña, written over a horizontal line.

Miguel De La Peña, Director
Office of Accounting
Fund Ref. 100/78/001090/\$47,696.43
Date: 1/30/2023

EA/VB/12-2022-0166_GIS.gva

Questions regarding this
report may be referred to:
Veronica Buenrostro, Sr. M.A. I
Phone No. (213) 808-8911
E-mail: veronica.buenrostro@lacity.org



SELWYN HOLLINS
Director

County of Los Angeles INTERNAL SERVICES DEPARTMENT

9150 Imperial Hwy.
Downey, California 90242

Telephone: (323) 267-2103
FAX: (323) 264-7135

"To enrich lives through effective and caring service"

February 15, 2022

Richard H. Llewellyn
City Administrative Officer
City of Los Angeles

Dear Richard H. Llewellyn,

LOS ANGELES REGION IMAGERY ACQUISITION CONSORTIUM (LARIAC7)

Established in 2005, the Los Angeles Region Imagery Acquisition Consortium (LARIAC) has delivered highly accurate digital aerial imagery and elevation datasets to participants at substantial cost savings and has become a national model for collaborative data acquisition. LARIAC participants have included 52 cities, 27 County departments, 16 local, state, and federal agencies, and seven educational institutions.

To ensure the currency of the aerial imagery, we are working with consortia members to plan and initiate the next LARIAC cycle – **LARIAC7**. This document describes LARIAC, highlights its benefits, provides a status update, and discusses the proposed scope, schedule, and cost. Your total portion of the cost of LARIAC7 will be **\$769,535**.

To conserve paper, we will also E-mail a digital copy of this letter and Participant Agreement to current LARIAC participants. These participants are listed on Attachment I. Payments are traditionally invoiced in two equal installments in year one (Spring 2023) and two (Spring 2024) of the cycle.

LARIAC BACKGROUND

LARIAC is a consortium of the County of Los Angeles, in partnership with cities and agencies, which collaboratively acquires valuable digital aerial data, including imagery and elevation data. Leveraging the combined buying power of the member agencies, LARIAC reduces costs, enabled participants to acquire more data than would be possible individually and provides consistent and comparable data over time.

The LARIAC Website (<https://lariac-lacounty.hub.arcgis.com/>) provides comprehensive information about the project, including detailed data descriptions and samples, product guides, documentation, and agreements.

TRANSMITTAL NO. 1

LARIAC7

LARIAC is in its seventh cycle (LARIAC7) of digital aerial data acquisition, scheduled to begin initial data capture in early 2023 with delivery by December 2023. Attachment II shows various LARIAC data acquisitions.

LARIAC7 will update its highly accurate orthogonal and oblique imagery with color infrared, as well as derived data including building outlines. LiDAR-based elevation data and derived products, last acquired in 2016 as part of LARIAC4, will also be included in LARIAC7. The benefits of LARIAC program and its products are listed on Attachment III.

Additional products will be finalized in the coming months. These may include additional high resolution image acquisitions throughout the three-year cycle, 3D mesh, additional derived GIS data products and/or street-level imagery and derived products. Additional details on LARIAC7 product list can be found in Attachment IV.

LARIAC7 PARTICIPATION

We look forward to your participation in LARIAC7. If your organization would like to join LARIAC7, please complete, sign, and return the attached "Letter of Intent" on your business letterhead. We recognize this Letter of Intent may be subject to final approval by your City Council or authorizing Board of Directors. We would appreciate receiving your letter of intent by April 15, 2022.

When available, please confirm your city/agency's commitment to participating in funding LARIAC7, please complete and return the attached "Participant Agreement," authorizing the County to invoice your city/agency for the initial payment, which will be one half of the total amount.

Please return either the signed "Letter of Intent" or "Participant Agreement" as a digitally signed document via email (preferred) to Steve Steinberg ssteinberg@isd.lacounty.gov and An Dang adang@isd.lacounty.gov or in hard copy by mail to

Attention: Steven Steinberg
County of Los Angeles
Internal Services Department
Mailstop #3
9150 Imperial Highway
Downey, CA 90242

If you have any questions, please contact one of us below:

LARIAC Project Director
Steven Steinberg
(562) 392-7126
ssteinberg@isd.lacounty.gov

LARIAC Project Manager
An Dang
(562) 955-3916
adang@isd.lacounty.gov

Sincerely,

A handwritten signature in black ink, appearing to read 'Steven J. Steinberg', with a long horizontal line extending to the right.

Steven J. Steinberg, Ph.D., MPA, GISP
Geographic Information Officer (GIO)
County of Los Angeles

CC: Mr. Essam Amarragy, Mr. Raul Virgen, Ms. Veronica Buenrostro
Attachments (6)

ATTACHMENT I

LARIAC PARTICIPANTS




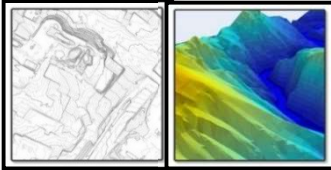
	LARIAC1	LARIAC2	LARIAC3	LARIAC4	LARIAC5	LARIAC6
<i>Cities</i>						
City of Agoura Hills	X		X		X	
City of Arcadia				X	X	X
City of Azusa	X	X		X	X	X
City of Bellflower			X			
City of Beverly Hills	X	X	X	X	X	X
City of Burbank	X	X	X	X	X	X
City of Carson	X	X	X	X	X	
City of Cerritos	X	X		X		X
City of Claremont		X	X	X	X	X
City of Covina	X	X		X		
City of Culver City	X	X	X	X	X	X
City of Diamond Bar	X	X				
City of Downey	X		X	X	X	X
City of Duarte				X		
City of El Monte				X		
City of El Segundo	X	X	X	X	X	X
City of Gardena				X	X	
City of Glendale	X	X	X	X	X	X
City of Hermosa Beach	X	X	X	X	X	X
City of Industry	X	X	X	X	X	X
City of Inglewood	X	X	X	X	X	X
City of Irwindale	X	X				
City of La Canada Flintridge	X	X	X	X	X	X
City of La Habra Heights	X	X				
City of Lakewood	X	X	X	X	X	X
City of Lancaster	X					X
City of Long Beach	X		X	X		
City of Los Angeles	X	X	X	X	X	X
City of Malibu				X	X	
City of Manhattan Beach	X	X	X	X	X	X
City of Monrovia	X					
City of Monterey Park	X	X		X		
City of Norwalk				X		
City of Palmdale	X					
City of Palos Verdes Estates					X	X
City of Pasadena	X	X	X	X	X	X
City of Pico Rivera						X
City of Rancho Palos Verdes				X	X	X
City of Redondo Beach	X	X		X	X	X
City of San Dimas			X	X	X	X
City of San Fernando					X	X
City of Santa Clarita	X	X	X	X	X	X
City of Santa Fe Springs	X		X		X	X
City of Santa Monica	X	X	X	X	X	X

City of Signal Hill				X	X	X
City of South El Monte	X	X				
City of South Pasadena			X			
City of Temple City					X	X
City of Torrance	X	X	X	X	X	X
City of West Covina					X	
City of West Hollywood				X	X	X
City of Westlake Village	X			X	X	
City of Whittier	X	X	X	X	X	X
County Departments						
Agricultural Commission/Weights and Measures	X	X	X	X	X	X
Animal Care & Control		X	X	X	X	X
Arts Commission					X	X
Assessor	X	X	X	X	X	X
Auditor Controller					X	X
Beaches & Harbors	X	X	X	X	X	X
Board of Supervisors Executive Office					X	X
Chief Executive Office/Office of Emergency Management	X	X	X	X	X	X
Child Support Services					X	X
Children & Family Services		X	X	X	X	X
Consumer Affairs					X	X
Coroner					X	X
Fire		X	X	X	X	X
Health Services	X	X	X	X	X	X
Internal Services Department	X	X	X	X	X	X
Library		X	X	X	X	X
Mental Health		X	X	X	X	X
Parks & Recreation	X	X	X	X	X	X
Probation		X	X	X	X	X
Public Health	X	X	X	X	X	X
Public Social Services		X	X	X	X	X
Public Works	X	X	X	X	X	X
Regional Planning	X	X	X	X	X	X
Registrar-Recorder/County Clerk	X	X	X	X	X	X
Sheriff		X	X	X	X	X
Treasurer and Tax Collector					X	X
Workforce, Development, Aging, and Community Services		X	X	X	X	X
Local, State, and Federal Agencies						
Alameda Corridor Transportation Authority		X				
Amigos de Los Rios			X			
California Department of Transportation	X				X	X
Catalina Island Conservancy	X	X	X	X	X	X
Los Angeles Air Force Base			X	X		
Los Angeles County Metropolitan Transit Authority (MTA)				X	X	
Los Angeles County Sanitation District No. 2	X		X	X	X	X

Los Angeles Region Gang Information Network (LARGIN)	X	X				
Port of Los Angeles	X	X	X	X	X	X
Port of Long Beach					X	X
Santa Catalina Island Conservancy	X	X	X	X		
Santa Clarita Valley Water Agency					X	X
Southern California Association of Governments						X
Southern California Edison (Catalina Island)					X	X
US Geological Survey		X	X	X		
US National Guard			X	X		
Water Replenishment District of Southern California				X	X	X
Educational Institutions						
Palos Verdes on the NET			X			
California State University, Channel Islands						X
California State Polytechnical University, Pomona				X	X	
California State University, Long Beach	X	X	X	X	X	X
California State University, Los Angeles		X				
California State University, Northridge						X
Claremont University Consortium				X		
Rio Hondo Community College				X		
Loyola Marymount University				X		
University of Southern California	X	X	X			
University of California at Los Angeles	X	X	X		X	X

ATTACHMENT II

LARIAC DATA ACQUISITIONS

Data	2006 (L1)	2008 (L2)	2011 (L3)	2014 (L4)	2017 (L5)	2020 (L6)	2023 (L7)
Orthogonal Imagery (4-inch) 	X (including Infrared)	X	X	X (including 2012 and 2103 1-foot imagery)	X (including Infrared imagery and multiple acquisitions per year)	X (including Infrared imagery in 2020 and multiple acquisitions per year through 2022)	X (including Infrared imagery in 2023 and multiple acquisitions per year through 2025)
Oblique Imagery 	X	X	X	X	X	X	X
Building Outlines 		X (400 sq ft)		X (400 sq ft)	X (300 sq ft)	X (300 sq ft)	X (300 sq ft)
Elevation Data 	X			X			X
Derived Data (tree canopy, solar insolation, slop, hillshade, height model, land cover, etc.)	X			X	X		X

ATTACHMENT III

DIGITAL AERIAL IMAGERY AND ELEVATION BENEFITS

Digital aerial imagery and elevation data provide valuable support for decision making within agencies, as well as cost savings for operations. High quality image data enables staff to make virtual site visits that improves and may replace field work, reducing information collection costs. Some examples include:

- **Public Safety:** Fire and Police personnel can plan for and “see” the location of incidents and addresses, improving dispatch, crime analysis, incident response, and officer safety.
- **Public Works:** Reduces the need for field visits, supports traffic and pavement management, storm drain and flood protection, and enhances project planning and infrastructure management.
- **Planning:** Improves code enforcement, site plan review, and understanding impacts of new projects.
- **Economic Development:** Improves outreach to businesses by providing detailed site information for potential developments and surrounding areas.
- **Disaster Planning and Response:** Improves planning and response before, during, and after disasters, providing a foundation for a Common Operating Picture.
- **Community Outreach:** Improves communication with residents by providing a picture of the area of discussion, increasing citizen engagement.
- **Operational Efficiency:** A consistent view of a city or agency supports collaboration, integration, and efficiency to lower operational costs.

LARIAC BENEFITS

High resolution data provided through LARIAC data offers key benefits when compared to aerial imagery from online providers (“free mapping websites” like Google or Bing), and off-the-shelf vendors. These include:

- Enhanced resolution (4-inch rather than 1-foot) shows greater detail and provides more information (you can see manhole covers and road striping);
- Unparalleled accuracy (+/- 2-feet accuracy) ensures information captured from the imagery is in the right location, supporting facilities management, planning, and operations;
- Breadth of products (orthogonal and oblique imagery, building footprints, and elevation data) to support of city or agency’s business needs;
- Multiple access methods, including desktop, handheld, and mobile, as well as local and remotely hosted solutions to eliminate agency hardware and software costs;
- Variety of formats and compressed formats to enable use within existing applications in the field;
- Access to historical data from previous LARIAC image acquisitions to assess change over time; and

- Complete control of LARIAC data products, including availability for use by your contractors. LARIAC participation allows for data use and deployment across your entire agency in all applications, from planning to emergency services to public works.

One of the key benefits of LARIAC is cost sharing, provides members a suite of high quality deliverables at lower cost per member as more cities and agencies participate. Cost savings are passed back to participants in the form of additional data products, more frequent image capture and maintaining the price point over time.

To date, 102 cities, County departments, agencies, and educational institutions have benefited from these cost savings. These entities are listed in Attachment I. We invite you to contact these participants to learn more about their use and benefit from the LARIAC.

ATTACHMENT IV

LARIAC7 PRODUCT LIST

Orthogonal Imagery

- 4-band orthogonal imagery (including color infrared) at 4-inch or better resolution in the urban areas, and 9-inch or better in the National Forest.
- Multiple formats (TIFF, JPEG2000, and compressed ECW).

Oblique Imagery

- 3-band color oblique imagery at 4-inch resolution.
- Online hosted access for desktop and mobile devices.

Building Outlines

- Building outlines updated for all buildings over 300 square feet.

Digital Terrain Data

- LIDAR point cloud including all elevation data (QL1 or better).
- Digital Terrain Model (DTM) – bare earth data derived from LIDAR.
- Digital Surface Model (DSM) - building and tree tops derived from LIDAR.
- Digital Elevation Model (DEM) – bare earth data optimized for processing.
- 1-foot contours for urban areas, and 2-feet contours for the National Forest.

Additional Data Product(s) as Feasible

- Additional high resolution image acquisitions throughout the three-year cycle.
- Normalized Difference Vegetation Index (NDVI).
- Solar Model.
- Raster Tree Canopy Model.
- Raster Building data Model.
- Hillshade.
- Slope.
- Raster Height Model.
- 3D mesh.
- Street-level imagery and derived products.
- Other additional derived GIS data products.

Hosted Solution

- EagleView CONNECTExplorer and CONNECT Products (e.g. EagleView for ESRI Web AppBuilder, Integrated Pictometry Application).
- Image services provided as WMS, WMTS, TMS, and Esri REST.

GIS Viewer Access

- Enhanced access to the LARIAC data, current parcel information, other County GIS data, and mapping and GIS tools through the County's GIS Viewer.

ATTACHMENT V

SAMPLE LETTER OF INTENT

<Current Date>

Steven Steinberg
County of Los Angeles
Internal Services Department
Mailstop #3
9150 Imperial Highway
Downey, CA 90242

Dear Dr. Steinberg:

It is our intent to participate in the 2023 Los Angeles Region Imagery Acquisition Consortium (LARIAC7). LARIAC7 will acquire 4-inch color orthogonal in urban areas (9-inch in National Forests), 4-inch oblique aerial photography, building representations (outlines), digital terrain data, and additional high resolution image acquisitions throughout the three-year cycle. We understand the cost will be **\$769,535**. Recognizing that our final commitment is contingent upon approval by our organization. It is understood this approval must be obtained prior to confirming our participation in this project.

If you have questions, please contact **<Name and Title of Primary Contact>** at **<Telephone, Fax and E-mail Address>**.

Sincerely,

Signature

Print Name

Title

Date

**PARTICIPANT AGREEMENT BY AND BETWEEN THE
COUNTY OF LOS ANGELES
AND PARTICIPATING ENTITIES FOR THE
LOS ANGELES REGION – IMAGERY ACQUISITION CONSORTIUM 7
("LARIAC7") PROJECT**

**PARTICIPANT AGREEMENT BY AND BETWEEN THE COUNTY OF LOS ANGELES
AND PARTICIPATING ENTITIES FOR THE
LOS ANGELES REGION – IMAGERY ACQUISITION CONSORTIUM 7 ("LARIAC7") PROJECT**

This Participant Agreement (Agreement) is made and entered into by and between the County of Los Angeles (County), a political subdivision of the State of California, and **City of Los Angeles**, a California city, special district, agency, or educational institution. Each individual city, district, educational institution, or agency is referred to herein individually as a "Participating Entity" and collectively as the "Participating Entities". The County and the Participating Entities are hereinafter referred to collectively as the "Parties" and each individually as a "Party".

- A. **WHEREAS**, County has planned to acquire new digital orthogonal and oblique aerial imagery in the winter of 2023 Project;
- B. **WHEREAS**, County has become aware that various Participating Entities have similar projects currently underway or plans to undertake similar projects in the near future;
- C. **WHEREAS**, in order to avoid the duplication of efforts and costs by the Parties, the Parties desire to pool their resources to collectively undertake the Project; and
- D. **WHEREAS**, the Parties intend to participate in the Project upon the terms and conditions set forth herein below.

NOW, THEREFORE, in consideration of the mutual covenants herein set forth and the mutual benefits to be derived therefrom, the Parties agree as follows:

1. Purpose

The purpose of this Agreement is to provide a vehicle for the collective participation in the Project by the Parties. The Project shall focus on the acquisition of certain aerial imagery digital data which may include, but are not limited to, products listed in Attachment A ("Digital Data"). It is the intent of the Parties that Digital Data shall be acquired under this Agreement for areas within the County of Los Angeles covered by the jurisdictions of the Parties.

2. Responsibilities of the County

- A. Identify and provide specifications for Digital Data (or their derivatives) to the contractors hired to complete the Project.
- B. Develop all necessary procurement documents for necessary services to be provided by one or more qualified contractors in connection with the acquisition and administration of the Digital Data.
- C. Select the most qualified contractor or contractors to provide the necessary services in connection with the acquisition and administration of the Digital Data and thereafter, manage the entire acquisition and administration of the Project.
- D. With the assistance of one or more selected contractors, provide Quality Control (QC) for all Digital Data delivered under this Agreement.
- E. Arrange for the delivery of the Digital Data (or portions thereof) to the Participating Entity upon Project completion.
- F. Provide monthly reports to the Participating Entities on the status of the Project.

3. The Participating Entity Has the Right to

- A. Participate in identifying and providing technical specifications for the Digital Data (or their derivatives).
- B. Provide currently available geodetic points (with necessary standards and accuracy) for County's QC process.
- D. Acquire additional digital aerial products from the contractors through this Agreement, provided that a Statement of Work is provided. County assumes no liability for the completion of these products.

4. Mutual Responsibilities; Maximum Contribution

The Parties shall be mutually responsible for the following:

- A. Financing the acquisition and administration of the Digital Data including, but not limited to, costs related to QC and the subsequent distribution thereof. The total cost of such acquisition and administration (Total Cost) shall be allocated among the Parties and the Participating Entities. The portion of the Total Cost allocated to a Party hereunder shall be hereinafter referred to as the Party's "Maximum Contribution." Each Participating Entity will transfer its Maximum Contribution to a LARIAC account which has been established by the County for this Project (LARIAC Account) and as further described in Paragraph 5 of this Agreement.

The Maximum Contribution of the Participating Entity shall be \$769,535\$112314.

B. In the event the Project is terminated for any reason before the execution of any contract with a contractor for the provision of goods and/or services in connection with the Project, each Participating Entity shall be refunded its Maximum Contribution (or such portion of the Maximum Contribution as shall have been paid to the County by such Participating Entity) in its entirety.

5. Payment of Maximum Contribution; Administration of LARIAC Account

A. A Participating Entity shall have the following options in paying its Maximum Contribution to the County hereunder:

- i. The Participating Entity may elect to pay its Maximum Contribution to County in its entirety upon execution of this Agreement.
- ii. The Participating Entity may elect to pay its Maximum Contribution to County as follows: (a) fifty percent (50%) of the Maximum Contribution upon its execution of this Agreement; and (b) fifty percent (50%) upon delivery of the Digital Data to the Participating Entity.

B. The LARIAC Account established by the County in connection with the Project, shall be subject to the following:

- i. All funds held in the LARIAC Account shall be used solely for the payment of contractors selected by County to provide goods and services in connection with the Project.
- ii. Any funds held in the LARIAC Account not expended upon the completion of the Project or the termination of this Agreement shall be held, administered, and returned to Parties based on their prorated contribution to the total costs of the Project.

6. General Terms and Conditions

A. This Agreement shall take effect upon execution and shall remain in effect through final delivery of all Digital Data and through the duration of the license-use term.

B. The term of this Agreement may be extended by an Amendment to this Agreement.

C. It is the intention of the Parties that the Participating Entity shall receive, with the delivery of the Digital Data, an unlimited irrevocable perpetual, royalty-free license. The license may be used to, modify, edit, reuse, reproduce,

translate, create derivatives, compile, other works based upon the Digital Data, and combine the data with other contents selected by the Participating Entity in its own operation, with an unlimited number of seats; including, but not limited to Internet and intranet applications, copying, and printing.

D. The Participating Entity shall have the right to transfer, sublicense, and distribute any form of media either now known or hereinafter desired the Digital Data to its subcontractors or consultants on projects which are outsourced from its own operations. In this connection, the Participating Entity shall require each subcontractor or consultant to whom the Digital Data is transferred to execute a written acknowledgement and agreement to abide by such Participating Entity's license to use the Digital Data. Such acknowledgement and agreement is provided in Attachment B (Los Angeles Regional Imagery Acquisition Consortium (LAR-IAC) 7 Authorized User Confidentiality and Non-Disclosure Agreement).

E. Notwithstanding any provision of this Agreement to the contrary, a Participating Entity shall not have the right to sell, resell, or otherwise transfer its license to use the Digital Data to any other person or entity.

F. This Agreement may be amended or modified by County only after collaboration and consultation with the Participating Entities.

G. Nothing in this Agreement shall be construed to give any person or entity, other than the Parties hereto, any legal or equitable right, remedy, or claim under or in respect to this Agreement or any provision herein contained. This Agreement and the provisions hereof are intended to be and are for the sole and exclusive benefit of the Parties.

H. No Party may terminate its participation under this Agreement after the execution of contract(s) for the acquisition of the Digital Data without the prior written consent of County.

I. Any other California city, special district, agency, or educational institution may become a Participating Entity under this Agreement if:

- (i) Such entity executes this Agreement, and
- (ii) Such entity makes its Maximum Contribution to County as provided for under this Agreement. Any such contribution shall be deposited into the LARIAC Account and administered in accordance with subparagraph 5.B of this Agreement.

J. This Agreement may be executed in counterparts and the signed counterparts shall constitute a single instrument. The signatories to this Agreement represent that they have the authority to bind their respective party to this Agreement.

IN WITNESS WHEREOF, the parties have executed this Participant Agreement for the Los Angeles Region – Imagery Acquisition Consortium 6 Program on the date indicated below.

PARTICIPANT ENTITY
City of Los Angeles

COUNTY OF LOS ANGELES
INTERNAL SERVICES DEPARTMENT

By: _____

By: _____

Date: _____

Date: _____

DIGITAL DATA

All data will be acquired in 2023 unless otherwise noted.

Orthogonal Imagery

- 4-band orthogonal imagery (including color infrared) at 4-inch or better resolution in the urban areas, and 9-inch or better in the National Forest.
- Multiple formats (TIFF, JPEG2000, and compressed ECW).

Oblique Imagery

- 3-band color oblique imagery at 4-inch resolution.
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Building Outlines

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Additional Data Product(s) as Feasible

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- Hillshade.
- Slope.
- Raster Height Model.
- 3D mesh.
- Street-level imagery and derived products.
- Other additional derived GIS data products.

**LOS ANGELES REGIONAL
IMAGERY ACQUISITION CONSORTIUM (LAR-IAC) 4, LAR-IAC5, LAR-IAC6, LAR-IAC7
AUTHORIZED USER
CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT (NDA)**

1. Pictometry International Corp., a Delaware company with offices at 25 Methodist Hill Drive, Rochester, NY 14623 (“Pictometry”), and the County of Los Angeles (“County”) have entered into that certain agreement dated December 3, 2013 as amended from time to time (“Agreement”) for delivery of licensed digital mapping data and software (“Licensed Products”) to the County. Under the Agreement, certain governmental entities (“Authorized Entities”), including County Departments and non-County Authorized Participants, which participate in the LAR-IAC may be granted copies of or otherwise provided access to the Licensed Products through a Participant Agreement.
2. Pursuant to Paragraph 11.2 (Authorized Users) of the Agreement, Licensed Products may only be accessed or otherwise used by an Authorized User, which includes any contractor or consultant of an Authorized Entity using the Licensed Products either at the facilities of such Authorized Entity or for any Project (as defined below) of such Authorized Entity.
3. The undersigned is an Authorized User of an Authorized Entity under the Agreement and desires to use the Licensed Products solely for internal, noncommercial use and for purposes no greater than reasonably needed to achieve the objectives of an actual project undertaken in connection with the relationship with the Authorized Entity (“Project”).
4. The undersigned Authorized User understands and agrees that the Licensed Products contain proprietary, trade secret and/or confidential information (“Confidential Information”) of Pictometry. Therefore, by signing this Authorized User Confidentiality and Non-Disclosure Agreement (“NDA”), the Authorized User agrees to use the Licensed Products solely for the Project, which is a nonexclusive, nontransferable and non-assignable right, from the effective date of this NDA until the expiration or termination of the Project for which the undersigned Authorized User was engaged by the particular Authorized Entity.
5. Pictometry and the County acknowledge that the Agreement and certain information and documentation (collectively, “Records”) may be subject to public record requests (e.g., California Public Record Act Request or Freedom of Information Act Request) or other compelled legal disclosure requests (e.g., a subpoena or warrant) (collectively, “Compelled Disclosure Requests”). Should the Authorized Entity reasonably believe that Records, in whole or in part, are subject to production via a valid, properly submitted Compelled Disclosure Request, the Authorized Entity will promptly notify County and Pictometry of such request providing five (5) days advance notice prior to producing any of the requested Records. Pictometry explicitly reserves the right to object to any such production and to pursue any and all remedies it has in both law and in equity to prevent the release of such Records. The Authorized User and the Authorized Entity, at Pictometry’s expense, shall reasonably cooperate with Pictometry in connection with the foregoing.
6. The undersigned Authorized User agrees to protect and maintain any Confidential Information the Authorized User is given access to under this NDA using at least the same protections and to the same extent the Authorized Entity uses to protect and maintain its own confidential information of a similar nature.
7. To the extent any Confidential Information that is not in the public domain is revealed through the operation or other use of the Licensed Products, the Authorized User agrees that it will not make use of, disseminate or in any way disclose such Confidential Information without the County’s prior written consent, which County may first need to obtain from Pictometry.

IN WITNESS WHEREOF, the undersigned Authorized User, by his/her authorized signature, agrees to all terms and conditions of this NDA as of the date set forth below.

AUTHORIZED USER:

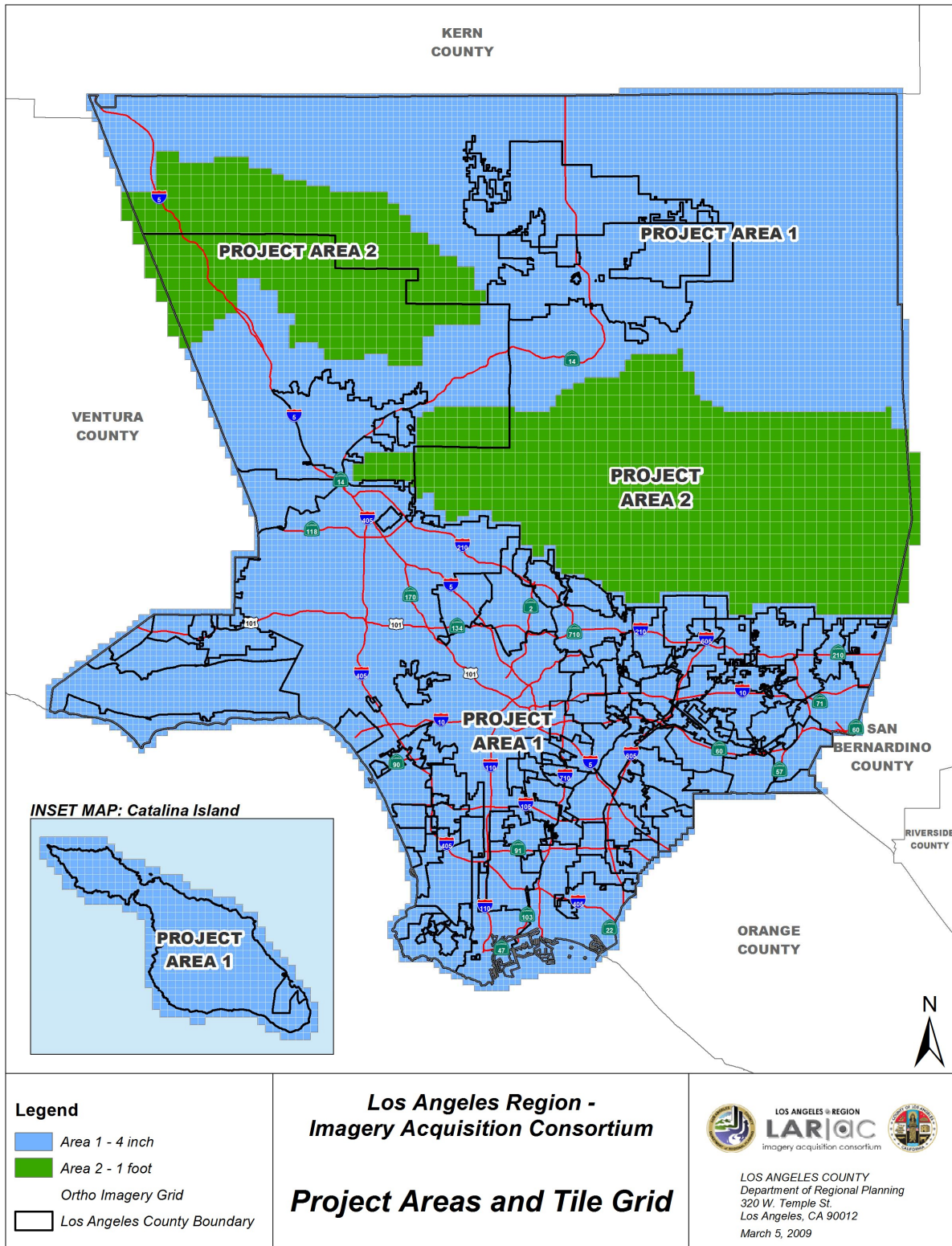
Signature: _____	Address: _____
Name: _____	_____
Organization: _____	City/Zip: _____
Date: _____	Phone: _____

AUTHORIZED BY:

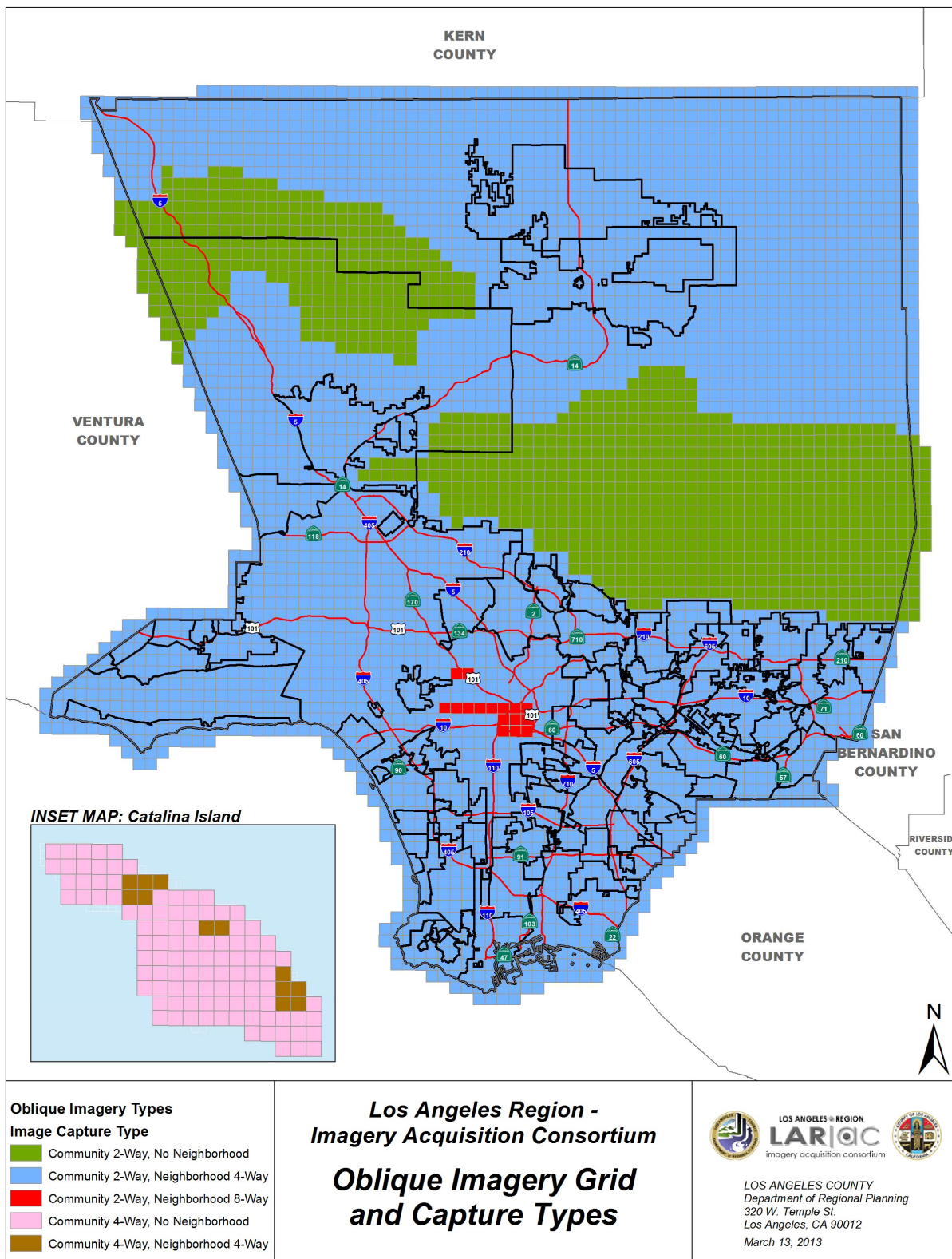
Signature: _____	Date: _____
Name: _____	Authorized Entity: _____
Title: _____	County’s Project Director: _____

Note: Submit completed form and a copy of the contract between the Authorized Entity and the Authorized User that details the “Project” to Dr. Steven Steinberg, LARIAC Project Director, at SSteinberg@isd.lacounty.gov and Cc’ An Dang, LARIAC Project Manager, at adang@isd.lacounty.gov for review and approval.

Map 1: Areas for Orthogonal Imagery Products



Map 2: Areas for Oblique Imagery Products



**BOARD OF PUBLIC WORKS
MEMBERS****AURA GARCIA**
PRESIDENT**M. TERESA VILLEGAS**
VICE PRESIDENT**DR. MICHAEL R. DAVIS**
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COMMISSIONERVACANT
COMMISSIONER**DR. FERNANDO CAMPOS**
EXECUTIVE OFFICER**CITY OF LOS ANGELES**

CALIFORNIA

**ERIC GARCETTI**
MAYOR**DEPARTMENT OF
PUBLIC WORKS
BUREAU OF
ENGINEERING****GARY LEE MOORE, PE, ENV SP**
CITY ENGINEER1149 S. BROADWAY, SUITE 700
LOS ANGELES, CA 90015-2213<http://eng.lacity.org>

April 19, 2022

Mr. Steven Steinberg
 County of Los Angeles
 Internal Services Department
 Mailstop #3
 9150 Imperial Highway
 Downey, CA 90242

Dear Dr. Steinberg:

It is our intent to participate in the 2023 Los Angeles Region Imagery Acquisition Consortium (LARIAC7). LARIAC7 will acquire 4-inch color orthogonal in urban areas (9-inch in National Forests), 4-inch oblique aerial photography, building representations (outlines), digital terrain data, and additional high resolution image acquisitions throughout the three-year cycle. We understand the cost will be \$769,535. Recognizing that our final commitment is contingent upon approval by our organization. It is understood this approval must be obtained prior to confirming our participation in this project.

If you have questions, please contact Raul Virgen, GIS Chief at (213) 482-0366, raul.virgen@lacity.org

Sincerely,

Gary Lee Moore, PE, ENV SP
 City Engineer

GLM/TA/EA/RV/:jgr

Q:\GLM\City Engineer\GLM Signed Documents\2022 Documents\LARIAC 7 - Letter of Intent 4-14-22.pdf

TRANSMITTAL NO. 2