

RESOLUTION NO.

WHEREAS, the City of Los Angeles is a participant in the Los Angeles Region Imagery Acquisition Consortium (LARIAC), a collaborative program led by Los Angeles County that coordinates the acquisition of high-resolution aerial imagery and related geospatial data across the region;

WHEREAS, LARIAC is a multi-jurisdictional purchasing consortium that allows governments, public agencies, and academic institutions in Los Angeles County to jointly acquire aerial imagery and geospatial data every three years;

WHEREAS, a Letter of Intent to participate in the consortium was signed by the City on September 17, 2025 (see Exhibit A);

WHEREAS, the Los Angeles City Public Works, Bureau of Engineering (BOE) is designated the Contract Administrator for the City in the Participant Agreement with Los Angeles County ("Agreement")(see Exhibit B);

WHEREAS, on November 26, 2025 the Agreement was adopted by the Board of Public Works and forwarded to City Council for approval (see Exhibit B);

WHEREAS, the BOE requests a one-time payment of \$36,756.12 of the Harbor Department's respective share of fees as listed in Exhibit B and as a participating department under the Agreement will pay a one-time fee of \$36,756.12, with the payments to be paid based upon approval of this Resolution by the Board of Harbor Commissioners (Board);

WHEREAS, the Harbor Department uses the aerial images and related data to create maps and conduct analysis that supports planning, real estate, construction, maintenance, safety and security purposes; and

WHEREAS, the Board now desires to authorize the Harbor Department's participation in the three-year Agreement and associated payment to BOE to be made from the Harbor Fund;

NOW, THEREFORE, BE IT RESOLVED that Board hereby approves the Harbor Department's participation in the Agreement and proposed one-time payment to BOE of the Harbor Department's share of \$36,756.12.

BE IT FURTHER RESOLVED that the Director of Accounting of the Harbor Department is authorized and directed to draw demands on the Harbor Revenue Fund in payment of the Harbor Department's obligations arising under the Agreement.

BE IT FURTHER RESOLVED, that the Executive Director, or such person as the Executive Director shall designate in writing, and the Secretary of the Board are hereby authorized and directed to execute and attest any documentation necessary to process the payments approved by this Resolution for and on behalf of the Harbor Department.

(Signature page follows)

I HEREBY CERTIFY that the foregoing
Resolution was adopted by the Board of Harbor
Commissioners of the City of Los Angeles at
its meeting held

AMBER M. KLESGES
Commission Secretary

APPROVED AS TO FORM AND LEGALITY

12 - 4, 202~~6~~⁵
HYDEE FELDSTEIN SOTO, City Attorney
Steven Y. Otera, General Counsel

By: 
MINAH PARK, Deputy

BOARD OF PUBLIC WORKS
MEMBERS

STEVE S. KANG
PRESIDENT

JENNY CHAVEZ
VICE PRESIDENT

JOHN GRANT
PRESIDENT PRO TEMPORE

FAITH I. MITCHELL
COMMISSIONER

ERNESTO CARDENAS
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ELYSE MATSON
EXECUTIVE OFFICER

CITY OF LOS ANGELES

CALIFORNIA



KAREN BASS
MAYOR

DEPARTMENT OF
PUBLIC WORKS
BUREAU OF
ENGINEERING

ALFRED MATA, PE
INTERIM CITY ENGINEER

1149 S. BROADWAY, SUITE 700
LOS ANGELES, CA 90015-2213

<http://engineering.lacity.gov>

September 17, 2025

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 Los Angeles Region Imagery Acquisition Consortium (LARIAC8). LARIAC8 will acquire 3-inch color orthogonal in urban areas (9-inch in National Forests), 3-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 **\$539,000**. 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 any questions, please contact Essam Amarragy, Division Manager, GIS & Mapping Division at (213) 482-7120, essam.amarragy@lacity.org.

Sincerely,

Alfred Mata, PE
Interim City Engineer

AM/BM/EA/RV:vb;eg

Box\EXE\2025 City Engineer\City-LARIAC8-Letter of Intent.pdf



Department of Public Works

Bureau of Engineering
Report No. 2

November 26, 2025
CD Nos. All

ADOPTED BY THE BOARD
PUBLIC WORKS OF THE CITY
of Los Angeles, California
AND REFERRED TO THE MAYOR
NOV 26 2025
AND REFERRED TO THE CITY COUNCIL
E. Padilla
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 to:

1. 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 \$539,000 for the acquisition of imagery and associated products from the countywide Los Angeles Region Imagery Acquisition Consortium (LARIAC) 8 Project, associated with the Letter of Intent signed on September 17, 2025 (Transmittal No. 2).
2. APPROVE funding in the amount of \$36,756.12 from Fund No. 100, Department No. 78, Appropriation Unit No. 003040, for the Bureau of Engineering's (BOE) participation in the countywide LARIAC8 Project.
3. REQUEST the Controller's Office to transfer the following amounts from the City departments and Department of Public Works bureaus identified in this report, totaling \$539,000 from various departmental appropriation units to the new appropriation unit in the Engineering Special Services Fund No. 682, Department No. 50, titled "LARIAC8 Project," so that the BOE can make a full payment to the County for the LARIAC8 Project.

From:

Department Name	Fund No.	Department No.	Appropriation Unit No.	Amount
Department of City Planning (Planning)	100	68	003040	\$ 36,756.12
Port of Los Angeles (POLA)	702	42	001000	\$ 36,756.12
L.A. Department of Building and Safety (LADBS)	48R	08	C530	\$ 98,142.08
LA Sanitation and Environment (LASAN)	100	82	003040	\$ 36,756.12
Los Angeles Police Department (LAPD)	100	70	003040	\$ 36,756.12
BOE	100	78	003040	\$ 36,756.12
Los Angeles Fire Department (LAFD)	100	38	006010	\$ 36,756.12
L.A. Department of Transportation	59C	94	94CV97	\$ 36,756.12
L.A. Department of Water and Power (LADWP)	51	98	5166	\$ 91,782.54
LADWP	01	98	5166	\$ 91,782.54
Total				\$539,000.00

To: Engineering Special Services, Fund No. 682, Department No. 50, Appropriation Unit No. (To Be Determined) LARIAC8 Project, \$539,000.

4. REQUEST all 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 LARIAC8 project description, which includes the unsigned Participant Agreement for LARIAC8 as an attachment.
2. Copy of the signed Letter of Intent for the LARIAC8.

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, the LARIAC6 project in 2020, and the LARIAC7 project in 2023. 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.

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, 20-1444 and 23-0638). Accordingly, the City's cost to participate in the project was calculated to be \$539,000, reduced from \$769,535.

The City's contribution of \$539,000 would come from various benefiting departments and Department of Public Works bureaus, as follows:

Department of Public Works
 Bureau of Engineering
 Report No. 2

November 26, 2025
 Page 3

Department Name	Fund No.	Department. No.	Appropriation Unit No.	Amount
Planning	100	68	003040	\$ 36,756.12
POLA	702	42	001000	\$ 36,756.12
LADBS	48R	08	C530	\$ 98,142.08
LASAN	100	82	003040 (SWRRF*)	\$ 36,756.12
LAPD	100	70	003040	\$ 36,756.12
BOE	100	78	003040	\$ 36,756.12
LAFD	100	38	006010	\$ 36,756.12
LADOT	59C	94	94CV97	\$ 36,756.12
LADWP	51	98	5166	\$ 91,782.54
LADWP	01	98	5166	\$ 91,782.54
Total				\$539,000.00

* Solid Waste Resource Recovery Facility (SWRRF)

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 LARIAC8 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 "LARIAC8 Project" appropriation unit to provide one centralized payment to the County.

(EA VCA BM)

Report reviewed by:

BOE (ADM)

Report prepared by:

GIS and Mapping Division

Essam Amarragy, PE
 Division Engineer
 Phone No. (213) 482-7120

Respectfully Submitted by:



Alfred Mata, PE
 Interim City Engineer

Statement as to funds approved by:



Miguel De La Pena, Director
 Office of Accounting
 Fund Ref. 100/78/003040/\$36,756.12
 Date: 11/03/2025

EA/VB/10-2025-0155_GIS.pnc

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

**PARTICIPANT AGREEMENT BY AND BETWEEN THE
COUNTY OF LOS ANGELES
AND PARTICIPATING ENTITIES FOR THE
LOS ANGELES REGION – IMAGERY ACQUISITION CONSORTIUM 8
("LARIAC8") PROJECT**

**PARTICIPANT AGREEMENT BY AND BETWEEN THE COUNTY OF LOS ANGELES
AND PARTICIPATING ENTITIES FOR THE
LOS ANGELES REGION – IMAGERY ACQUISITION CONSORTIUM 8 ("LARIAC8") 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 2026 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. Under no circumstances shall the Participating Entity be

responsible for any payment that exceeds its Maximum Contribution under this Agreement.

The Maximum Contribution of the Participating Entity shall be \$539,000.

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) \$269,500 upon its execution of this Agreement; (b) \$269,500 the following year (2026).

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 only with the prior written consent of the Participating Entity.

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 8 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 2026 unless otherwise noted.

Orthogonal Imagery

- 4-band orthogonal imagery (including color infrared) at 3-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 3-inch resolution.
- Online hosted access for desktop and mobile devices.

Building Outlines

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

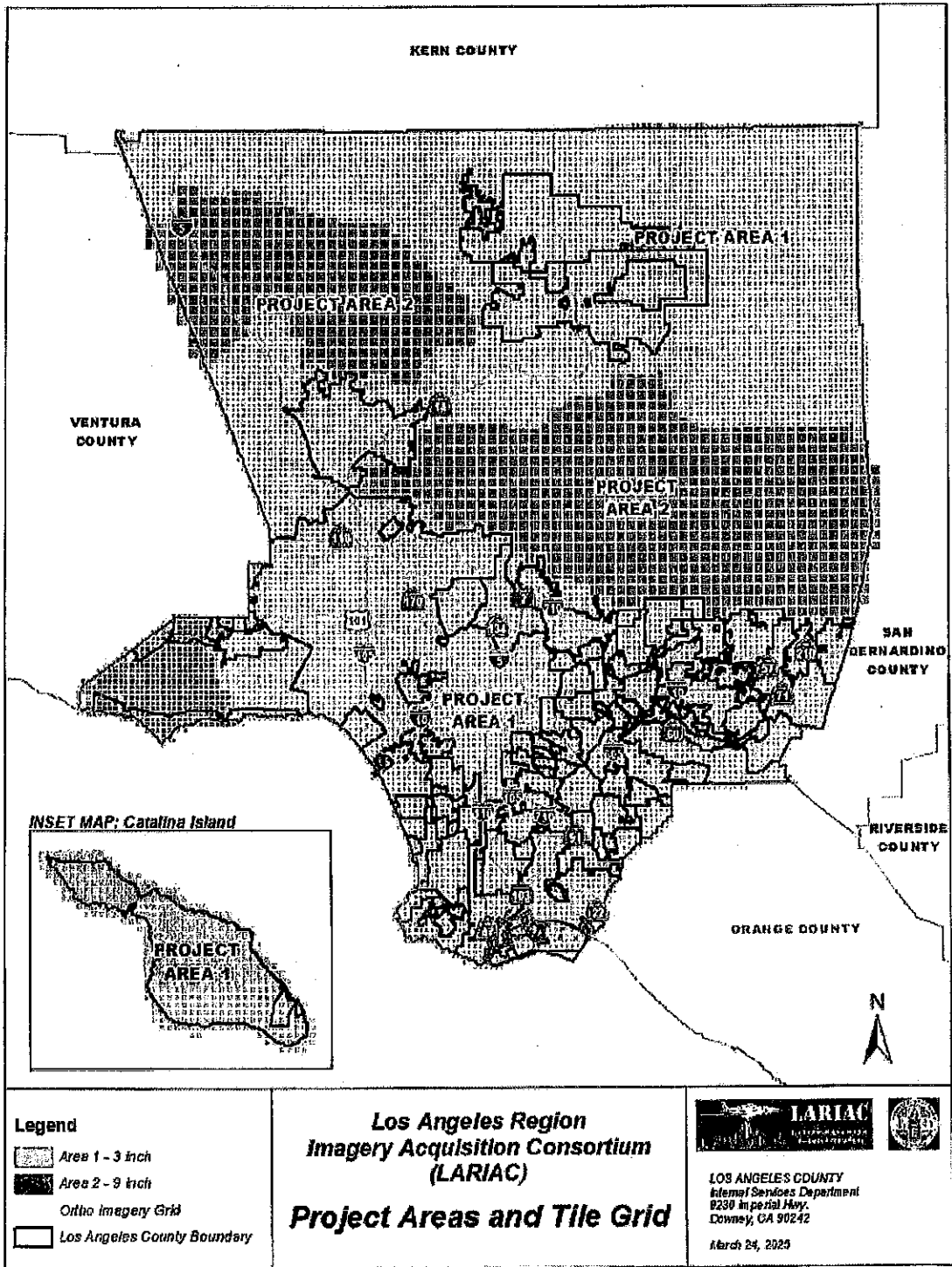
Digital Terrain Data

- 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-foot 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.

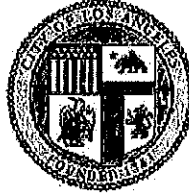
Map 1: Areas for Orthogonal Imagery Products



BOARD OF PUBLIC WORKS
MEMBERSSTEVE S. KANG
PRESIDENTJENNY CHAVEZ
VICE PRESIDENTJOHN GRANT
PRESIDENT PRO TEMPOREFAITH I. MITCHELL
COMMISSIONERERNESTO GARDENAS
COMMISSIONERELYSE MATSON
EXECUTIVE OFFICER

CITY OF LOS ANGELES

CALIFORNIA

KAREN BASS
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INTERIM CITY ENGINEER1149 S. BROADWAY, SUITE 700
LOS ANGELES, CA 90015-2213<http://engineering.lacity.gov>

September 17, 2025

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

Dear Dr. Steinberg:

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If you have any questions, please contact Essam Amarragy, Division Manager, GIS & Mapping Division at (213) 482-7120, essam.amarragy@lacity.org.

Sincerely,

Alfred Mata, PE
Interim City Engineer



AM/BM/EA/RV:vb;eg

Box\EXE\2025 City Engineer\City-LARIAC8-Letter of Intent.pdf



Date: 12/4/25

Contractor/Vendor Name: LARIAC

Account#	<u>571007</u>	Project#	<u>65000024</u>
Division#	<u>50010</u>	Task#	<u> </u>
Budget FY:		Amount:	
FY 2026		\$36,756.12	
FY 2027		\$12,252.04	
FY 2028		\$12,252.04	
FY 2029		\$12,252.04	
TOTAL:		\$73,512.24	
<u>For Acct/Budget Div. Use Only</u>			
Verified By:	 Melody Ugalde 2025.12.05 09:54:52 -08'00'		
Verified Funds Available:	 Digitally signed by Frank Liu Date: 2025.12.05 10:01:32 -08'00'		
Date Approved:	<u>12/5/25</u>		