PULGAS CREEK MITIGATION DESIGN CONCEPT

APPENDIX **J**

to the Alexandria Center for Life Science Project Final EIR



Memorandum

Re:	Pulgas Creek Mitigation Design Concept Alexandria Center for Life Sciences, San Carlos, California
Date:	November 22, 2024
То:	Toon Jordan, Alexandria Real Estate Equities, Inc.
CC:	Greg Arifian and Mark Quito, Freyer & Laureta, Inc.
From:	Jeffrey Tarantino, P.E., Freyer & Laureta, Inc.

Freyer & Laureta, Inc. (F&L) is providing this Pulgas Creek Mitigation Design Concept Memorandum to Alexandria Real Estate Equities (ARE) to provide an overview of the planned mitigation measures for the proposed Alexandria Center for Life Sciences (ACLS) located in the City of San Carlos, California. The purpose of this memorandum is to transmit conceptual exhibits presenting the proposed improvements for the ACLS site-wide master plan that both address the existing flooding and stabilizing the existing creek banks.

As described in the Master Plan Pulgas Creek Analysis Report, the project team proposes the following improvements to the site and Creek to address the flooding as well as Creek slope stability. The planned improvements include:

- Improvements between Industrial Road and the proposed Central Green area required to mitigate existing flooding conditions without adversely impacting offsite areas include:
 - Creek top and bottom widened to be integrated into the ACLS site design to increase conveyance capacity within the ACLS site
 - The proposed creek top of bank elevation is kept similar to existing elevation or lowered to reduce the risk of causing flooding offsite.
 - Central Green landscape area depressed at center of the site for flood detention purposes.
- All proposed and existing slopes are improved to reduce the long term risk of erosion using a combination of Geoweb panels, riprap, native planting, and vegetated retaining stair walls.
- All pedestrian walkways along the Creek within the flood mitigation & ecology zone will be elevated above the ground on a boardwalk.

We have attached the following exhibits to present the conceptual creek mitigation strategies:

- Exhibit EO-L1.01 is Illustrative Landscape Site plan for the ACLS site and we have indicated three locations where cross sections are presented on subsequent sheet. The creek improvements for flood mitigation described above occur at Cross Section 1 and Cross Section 2.
- Exhibit 1 presents Cross Section 1 including a markup from the previous creek improvement preliminary design indicating that the current proposal will both lower the top of bank on the ACLS property and widen the creek. A complimentary landscape illustrative cross section is provided as well.

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- Exhibit 2 is similar to Exhibit 1 for Cross Section 2
- Exhibit 3 presents Cross Section 3, which is consistent with the previous creek improvements preliminary design.

Please call me contact me at (650) 619-3226 or tarantino@freyerlaureta.com with any questions.

Attachments.

- 1. Exhibit EO-L1.01: Illustrative Landscape Site Plan
- 2. Exhibit 1: Pulgas Creek Improvement Cross Section 1
- 3. Exhibit 2: Pulgas Creek Improvement Cross Section 2
- 4. Exhibit 3: Pulgas Creek Improvement Cross Section 3



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DateDescription09/06/2024SITE PLAN SUBMITTA111/08/2024SITE PLAN SUBMITTA	L L - RESPONSE 1		
Seal / Signature			



Project Name

Project Number 033.3426.000.

Description ILLUSTRATIVE LANDSCAPE SITE PLAN

Scale



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Creek Improvement Section 3

