

An aerial photograph of a coastal city, likely Los Angeles, showing a dense urban grid, a large body of water (the ocean) in the foreground, and rugged hills in the background. The image is partially obscured by a dark teal overlay on the left side where the text is located.

La Cañada Flintridge Country Club Dry Weather Diversion

Technical Resources Program

Fiscal Year 2026-2027

Watershed Area: Upper Los Angeles River Watershed Area

Project Lead: La Canada Flintridge Country Club

Presenters: Pamela Dreyfuss & Randy Dreyfuss (La Canada Flintridge Country Club)

Cameron Castillo & Ian Adam (Fusco Engineering, Inc.)



Project Overview

Dry weather runoff diversion to LACSD wastewater reclamation plant for treatment and reuse for golf course irrigation.

- **Primary Objective:** To increase the amount of recycled water available for golf course irrigation and therefore reduce the use of potable water.
- **Secondary Objectives:** Capture and treat 100% of dry weather runoff from ~110 acres
- **Project Status:** Planning
- **Total Funding Requested:** \$400,000





La Canada Flintridge Country Club

2024
Putting Green
From Thirsty Turf to

2025 
No Irrigation
Habitat

Green Pathways Initiative

- Solar Energy Investment
- 2.5 Million Smart Irrigation Investment Saving Water & Power
- Habitat Creation
- Reclaimed Water from LASCDC
- Hundreds of Thousands of Dollars in Ecological Restoration Projects
- Community Asset and Resource
- Community Benefits from Hybrid Landscape -Green Space





La Canada Flintridge Country Club

Installed 12,000 square feet transformed into No-Water-Needed Oak Woodland Habitat in 2025

- Biomimicry designed to require no water after the first year
- Uses an irrigation swale for drought-only irrigation
- 25+ Native trees planted





Project Location

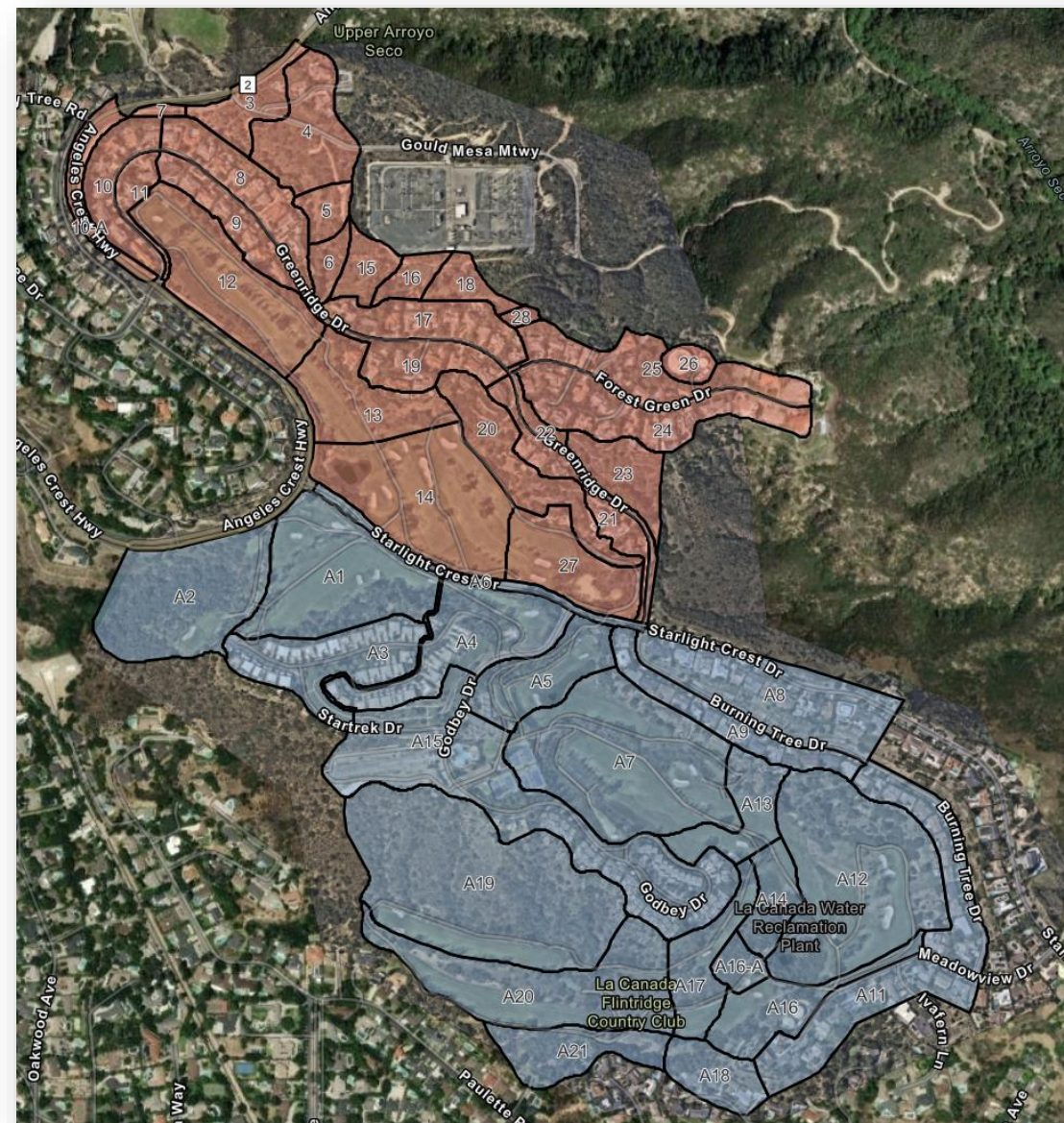


- The Proposed Project location is located in the La Canada Flintridge Country Club within the City of La Canada Flintridge.
- La Canada Water Reclamation Plant (LACSD) is located in the southern portion of the golf course



Project Capture Area

- The project capture area is estimated to be **110 acres** consisting of runoff from:
 - Golf Course (landscaping, Clubhouse, cart path)
 - Single Family Residential
 - Public Right-of-Way





Project Background



The project location was selected due to the proximity of the LACSD Reclamation Plant, and the Private Storm drain line (PD1616). These factors opened the opportunity of a dry weather diversion project concept.



Project proponents identified a decrease in the volume of recycled water that was received from LACSD due to water conservation. Project proponents were in search of a way to decrease potable water usage and met with LACSD on possible project concept.



The project is currently not included in a regional water management plan.



The project will help improve water quality and water supply by capturing and treating 100% of dry weather runoff and increasing the use of recycled water for golf course irrigation which therefore reduces the golf course's potable water usage for irrigation purposes.



The project is not located within a Disadvantaged Community however, it intends to explore opportunities for increasing the number of trees at the golf course, reducing the local heat island effect for the nearby community. It also provides an opportunity with the Arroyos & Foothill Conservancy to enhance nearby open spaces and habitats near the area for the surrounding community.



Partners



Implementation partners are the La Cañada Flintridge Country Club and the Los Angeles County Sanitation District (LACSD).



Project proponents plan to outreach to the nearby neighborhoods and community groups to spread awareness of the concept and receive feedback during the feasibility study.



A letter of concurrence has been issued by the City of La Cañada Flintridge.



Initial discussions with LACSD occurred in July 2024 and LACSD encouraged pursuing the dry weather approach. Discussions with LACFCD still need to occur during the Feasibility Study Phase.



Additionally, engagement with the Vector Control District will be started during the Feasibility Study Phase.



Project Details

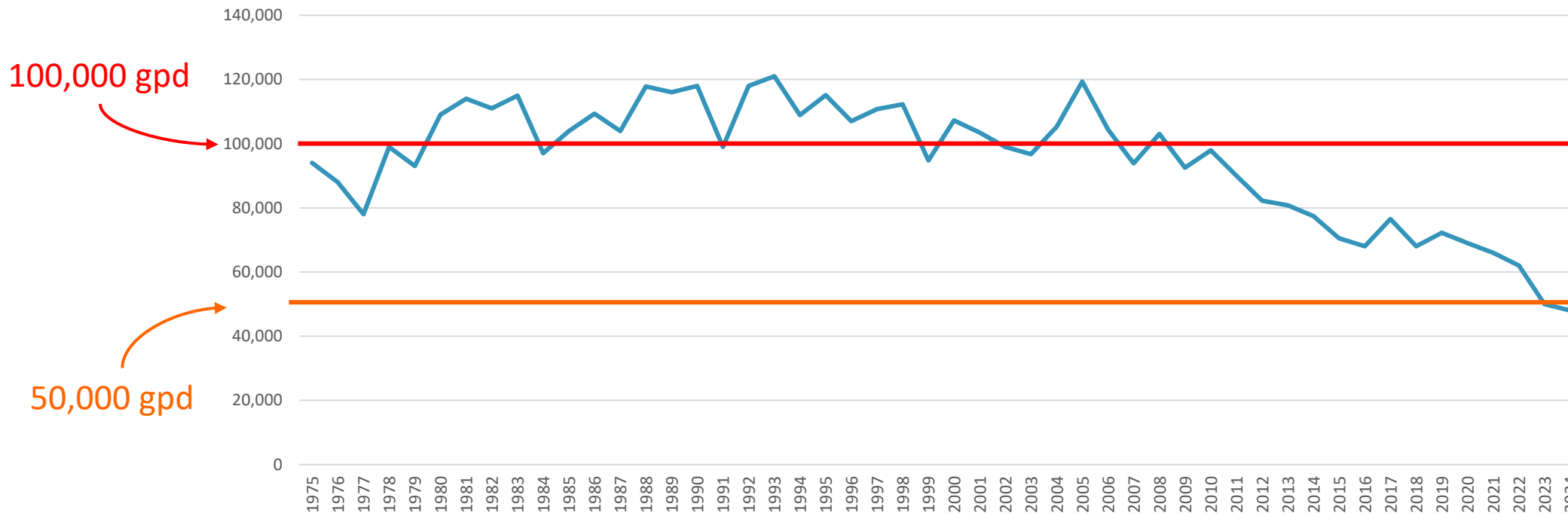


- Currently the La Canada Water Reclamation Plant provides treated effluent to the country club for golf course irrigation (approximately 40-45% of total irrigation). The project concept would increase the amount of reclaimed water sent to the country club by diverting dry weather runoff to the reclamation plant.
- Dry weather flow monitoring was conducted by LCFCC to understand the amount of dry weather flows within the private storm drain. It was found that diversion of dry weather runoff could reduce the golf course's use of potable water by up to 25% annually.
- Wet weather runoff diversion was also explored but it was determined by LACSD representatives that wet weather diversion would overburden the plant.
- Nature-based solutions have not been examined at this stage but will be evaluated further during the Feasibility Study Phase as a potential alternative.



Reduction of Reclaimed Water Over Time (1975-2024)

Average Daily Flow of Reclaimed Water (gallons per day)



Total Annual Irrigation Volume: ~40-45 Million Gallons		
Average Daily Flow of Reclaimed Water (GPD)	Annual Reclaimed Water Volume (MG)	Annual Potable Water Volume (MG)
100,000	36.5	8.5
50,000	18.25	26.75



Schedule & Cost

Phase	Description	Completion Date
Feasibility Study	A study going into specifics of project design and logistics.	08/2027
100% Design	Completion of the full design of the proposed project.	06/2029
Environmental Document and Permitting	Obtaining permits from Environmental Agencies	06/2030
Construction	Full construction of the proposed project.	06/2031
TOTAL		

- Project Costs, Lifespan, and Lifecycle/Annual Costs will be determined during the Feasibility Study Phase.



Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$400,000	Feasibility Study	Est. Completion by 2027
TOTAL	\$400,000		

- Leveraged Funding amount and future potential SCW funding requests will be analyzed during the Feasibility Study Phase that will include matching funds from LCFCC.



Water Quality & Water Supply Benefits



- The project concept is tributary to Arroyo Seco and the Feasibility Study will further examine the primary pollutants identified in the Enhanced Watershed Management Program
- Dry Weather diversion is estimated to reduce the golf course's potable water consumption by 25%. Average 450,000 gallons per month in dry weather runoff per flow monitoring study (April 2025).
- The water diverted will be treated and used for irrigation in the golf course.



Community Investment Benefits

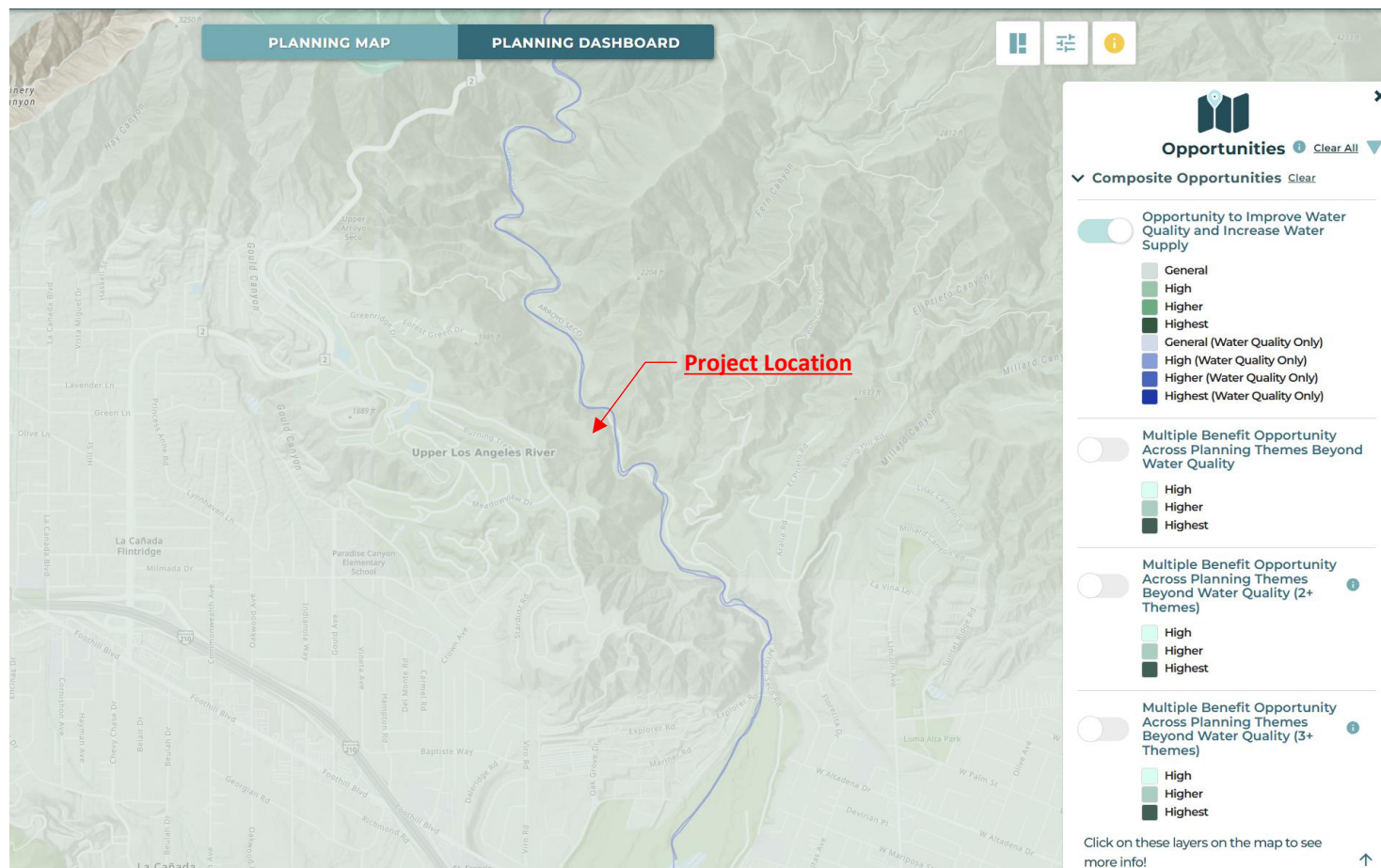
- Community Investment Benefits
 - LCFCC has been working with the Arroyos & Foothill Conservancy on various ecological restoration efforts both on and off the golf course.
- Community Support
 - Project proponents have engaged and received support from the City of La Canada Flintridge, Los Angeles County Sanitation District, the ULAR Watershed Coordinator, and the Raymond Basin Watermaster





Alignment with Draft Initial Watershed Plans (ULAR)

- The proposed project concept seeks to address these Watershed Area Needs (Water Quality and Water Supply) by reclaiming additional water through the diversion of dry-weather flows from the storm drain system to a nearby water reclamation facility. The reclaimed water would then be utilized for irrigation purposes, reducing reliance on potable water for the same use.
- Through these integrated actions, the project concept aligns with the ULAR Watershed Plan by promoting drought preparedness, reducing potable water demand, and improving public health and water quality. This will be achieved through strategic partnerships and innovative, sustainable solutions.





Questions?

Cameron Castillo

Pamela Dreyfuss

Ian Adam

Randy Dreyfuss



La Canada Flintridge Country Club – Wet Weather Considerations

STORMWATER CAPTURE AND REUSE EXHIBIT

LA CANADA FLINTRIDGE COUNTRY CLUB
5500 GOBBEY DRIVE, LA CANADA FLINTRIDGE, CA



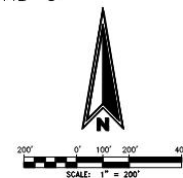
SHEET INDEX

- 1 - TITLE SHEET
- 2 - POND 2 AND POND 3 DETAILS
- 3 - POND 4 AND POND 5 DETAILS

ASSESSOR'S IDENTIFICATION NO.

9817-001-005, 9817-001-007, 9817-001-008,
9817-001-035, 9817-001-040, & 9817-002-022

POND	EXISTING			PROPOSED		
	POND SURFACE AREA (SF)	MIN VOLUME (CF)	MAX VOLUME (CF)	TOP AREA (SF)	MIN VOLUME (CF)	MAX VOLUME (CF)
1	9,185	42,000	44,000	9,185	42,000	44,000
2	17,246	115,000	129,000	21,705	158,000	162,000
3	14,265	60,000	64,000	26,060	121,000	130,000
4	27,672	154,000	174,000	30,061	171,000	195,000
5	—	—	—	9,133	39,000	40,000
TOTAL		371,000	411,000		531,000	571,000



LA CANADA FLINTRIDGE COUNTRY CLUB STORMWATER CAPTURE AND REUSE EXHIBIT

TITLE SHEET

FUSCOE
ENGINEERING
15535 Sand Canyon Ave, Suite 100
Irvine, California 92618
949.474.1900
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JOB NO.
4195-001
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SHEET
1 of 3

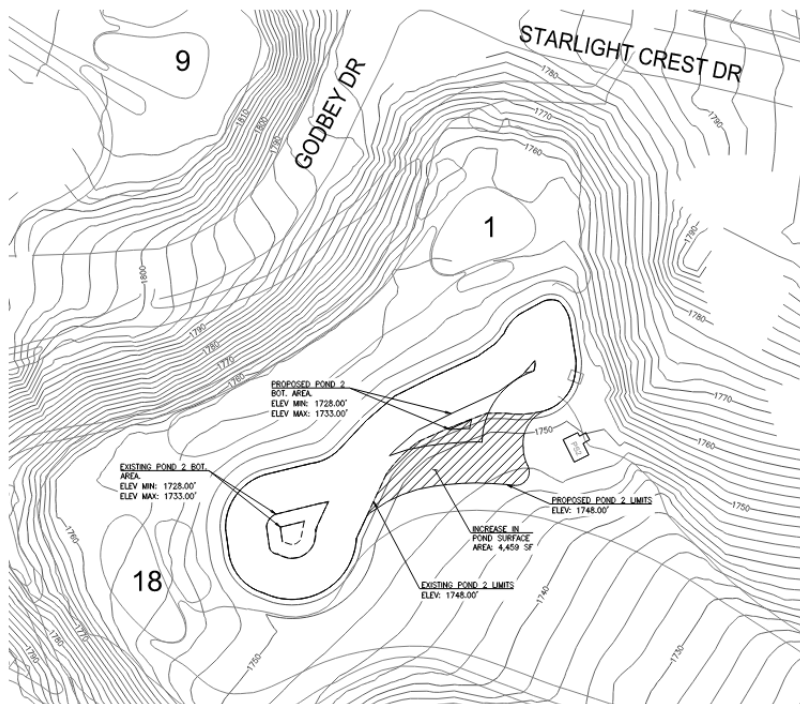


Additional Efforts from La Canada Flintridge Country Club

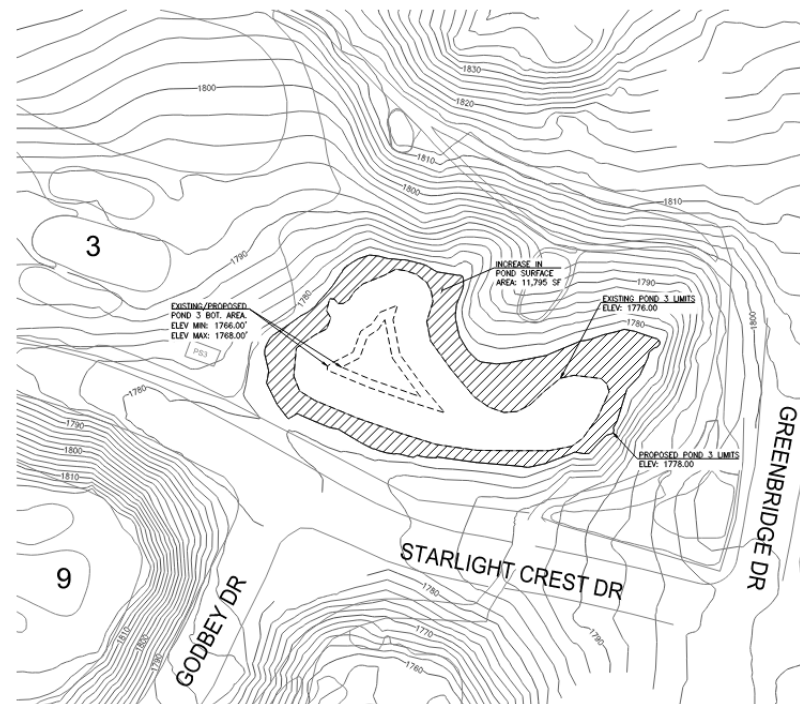




Additional Efforts from La Canada Flintridge Country Club



POND 2



POND 3

POND	EXISTING					PROPOSED				
	POND SURFACE AREA (SF)	DEPTH (FT) LOWER/UPPER BOUND	POND BOTTOM AREA (SF)	MIN VOLUME (CF)	MAX VOLUME (CF)	TOP AREA (SF)	DEPTH (FT) LOWER/UPPER BOUND	AREA (SF)	MIN VOLUME (CF)	MAX VOLUME (CF)
2	17,246	15	1,222	115,000	129,000	21,705	15	2,523	158,000	162,000
		20	2,08				20	2,56		
3	14,265	8	2,392	60,000	64,000	28,060	10	2,392	121,000	130,000
		10	1,087				12	1,087		



LA CANADA FLINTRIDGE COUNTRY CLUB STORMWATER CAPTURE AND REUSE EVALUATION

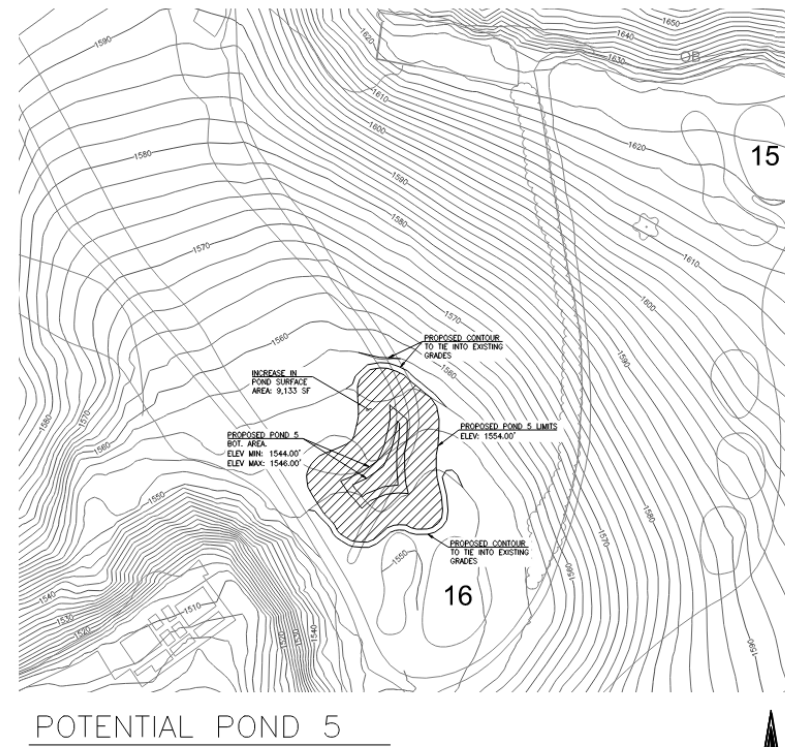
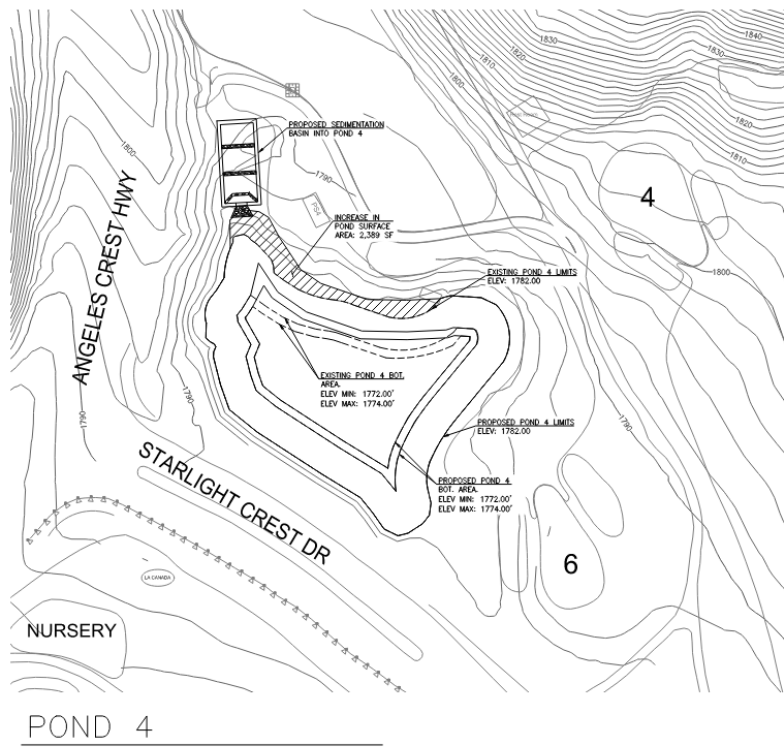
POND 2 AND POND 3 DETAILS



JOB NO:
4195-001
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Additional Efforts from La Canada Flintridge Country Club



POND	EXISTING					PROPOSED				
	POND SURFACE AREA (SF)	DEPTH (FT) LOWER/UPPER BOUND	POND BOTTOM AREA (SF)	MIN VOLUME (CF)	MAX VOLUME (CF)	TOP AREA (SF)	DEPTH (FT) LOWER/UPPER BOUND	AREA (SF)	MIN VOLUME (CF)	MAX VOLUME (CF)
4	27,672	8	11,888	154,000	174,000	30,061	8	13,775	171,000	195,000
		10	8,815	-	-	-	10	10,602	-	-
5	-	-	-	-	-	9,133	8	1,677	39,000	40,000
		-	-	-	-	-	10	574	-	-



LA CANADA FLINTRIDGE COUNTRY CLUB STORMWATER CAPTURE AND REUSE EVALUATION

POND 4 AND POND 5 DETAILS



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SHEET
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