Sunnyvale

FIRE STATION 2 – NEW CONSTRUCTION
Conceptual Design

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Background

- 1st Project from Fire Station Master Plan (FSMP, 2021)
- Includes new Fire Station 2 and Training Center
  - Existing Training Tower to remain and apparatus bay restored
- Project design began in early 2024
  - Sept 2024 - Planning Staff Review
  - Oct 2024 - Sustainability Commission Review

Project Goals

- Improve Dept. of Public Safety staff health and safety
- Provide updated fire service facilities
- Provide a high level of fire protection services to the community

Sustainability Goals

- LEED Gold Equivalency
- All-Electric Building
- Public EV Chargers
- Buildings will be "solar ready" at a minimum

LEED v4 for BD+C: New Construction and Major Renovation
Project Checklist

Project Name:
Date:

Y	?	N				
			Credit	Integrative Process		1

15	0	0		**Location and Transportation**		**16**
			Credit	LEED for Neighborhood Development Location		16
			Credit	Sensitive Land Protection		1
2			Credit	High Priority Site		2
5			Credit	Surrounding Density and Diverse Uses		5
5			Credit	Access to Quality Transit		5
1			Credit	Bicycle Facilities		1
1			Credit	Reduced Parking Footprint		1
1			Credit	Green Vehicles		1

6	0	0		**Sustainable Sites**		**10**
Y			Prereq	Construction Activity Pollution Prevention		Required
			Credit	Site Assessment		1
			Credit	Site Development - Protect or Restore Habitat		2
			Credit	Open Space		1
3			Credit	Rainwater Management		3
2			Credit	Heat Island Reduction		2
1			Credit	Light Pollution Reduction		1

5	1	0		**Water Efficiency**		**11**
Y			Prereq	Outdoor Water Use Reduction		Required
Y			Prereq	Indoor Water Use Reduction		Required
Y			Prereq	Building-Level Water Metering		Required
1			Credit	Outdoor Water Use Reduction		2
3	1		Credit	Indoor Water Use Reduction		6
			Credit	Cooling Tower Water Use		2
1			Credit	Water Metering		1

11	15	0		**Energy and Atmosphere**		**33**
Y			Prereq	Fundamental Commissioning and Verification		Required
Y			Prereq	Minimum Energy Performance		Required
Y			Prereq	Building-Level Energy Metering		Required
Y			Prereq	Fundamental Refrigerant Management		Required
	3		Credit	Enhanced Commissioning		6
8	6		Credit	Optimize Energy Performance		18
	1		Credit	Advanced Energy Metering		1
1	1		Credit	Demand Response		2
1	2		Credit	Renewable Energy Production		3
1			Credit	Enhanced Refrigerant Management		1
	2		Credit	Green Power and Carbon Offsets		2

10	0	0		**Materials and Resources**		**13**
Y			Prereq	Storage and Collection of Recyclables		Required
Y			Prereq	Construction and Demolition Waste Management Planning		Required
5			Credit	Building Life-Cycle Impact Reduction		5
1			Credit	Building Product Disclosure and Optimization - Environmental Product Declarations		2
1			Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials		2
1			Credit	Building Product Disclosure and Optimization - Material Ingredients		2
2			Credit	Construction and Demolition Waste Management		2

11	3	0		**Indoor Environmental Quality**		**16**
Y			Prereq	Minimum Indoor Air Quality Performance		Required
Y			Prereq	Environmental Tobacco Smoke Control		Required
	2		Credit	Enhanced Indoor Air Quality Strategies		2
3			Credit	Low-Emitting Materials		3
1			Credit	Construction Indoor Air Quality Management Plan		1
1	1		Credit	Indoor Air Quality Assessment		2
1			Credit	Thermal Comfort		1
2			Credit	Interior Lighting		2
2			Credit	Daylight		3
			Credit	Quality Views		1
1			Credit	Acoustic Performance		1

4	0	0		**Innovation**		**6**
3			Credit	Innovation		5
1			Credit	LEED Accredited Professional		1

0	0	0		**Regional Priority**		**4**
			Credit	Regional Priority: Specific Credit		1
			Credit	Regional Priority: Specific Credit		1
			Credit	Regional Priority: Specific Credit		1
			Credit	Regional Priority: Specific Credit		1

62	19	0	**TOTALS**	Possible Points:	**110**

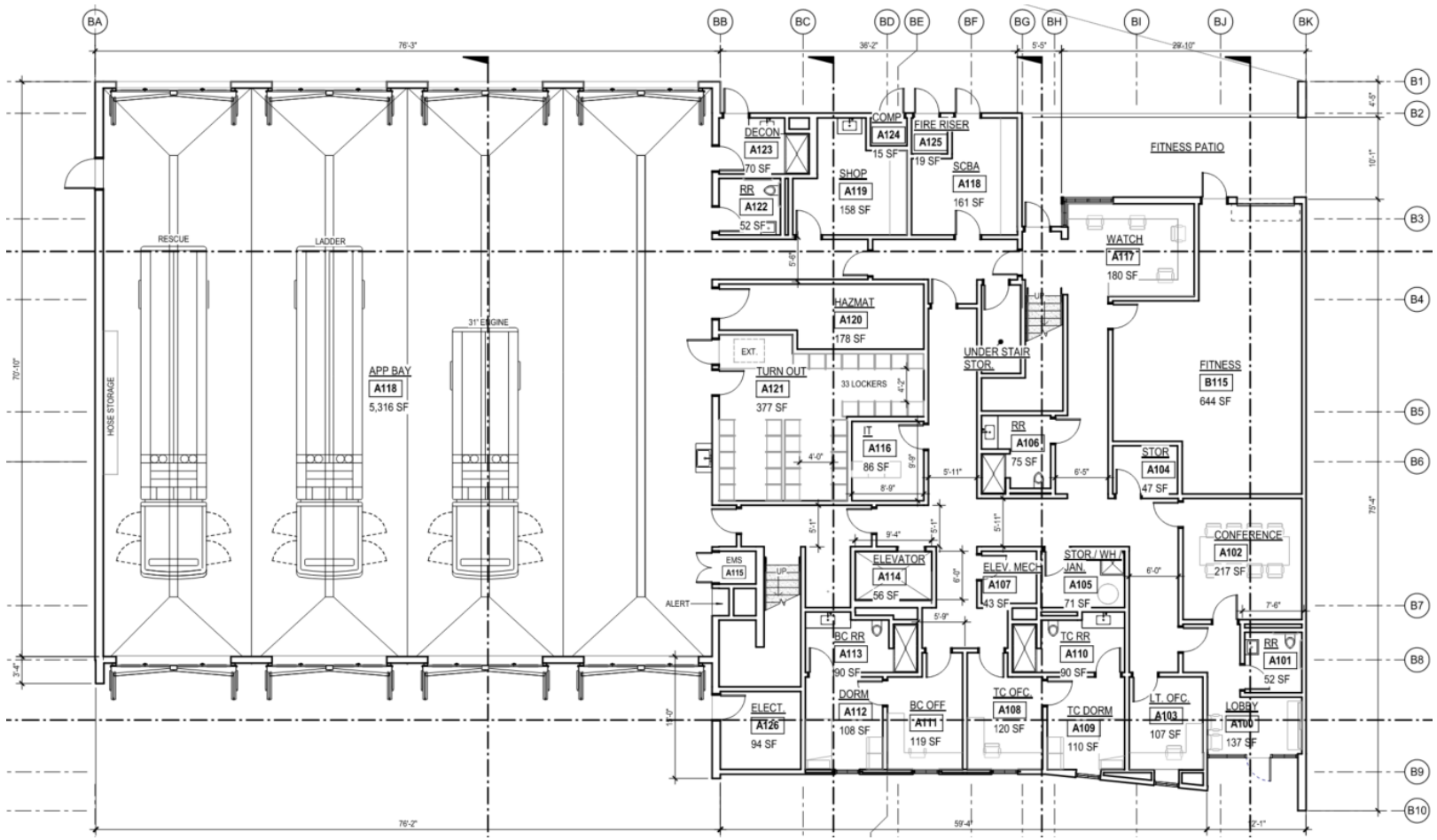
Certified: 40 to 49 points, **Silver:** 50 to 59 points, **Gold:** 60 to 79 points, **Platinum:** 80 to 110

Conceptual Site Plan

- Fire Station and Training Operations
  - Circulation
  - Return Routes
  - Open Training Area
- Parking
  - 25 marked unsecured stalls for the public/trainees
  - 20 unmarked secured stalls for staff
  - FSMP noted 60 total stalls

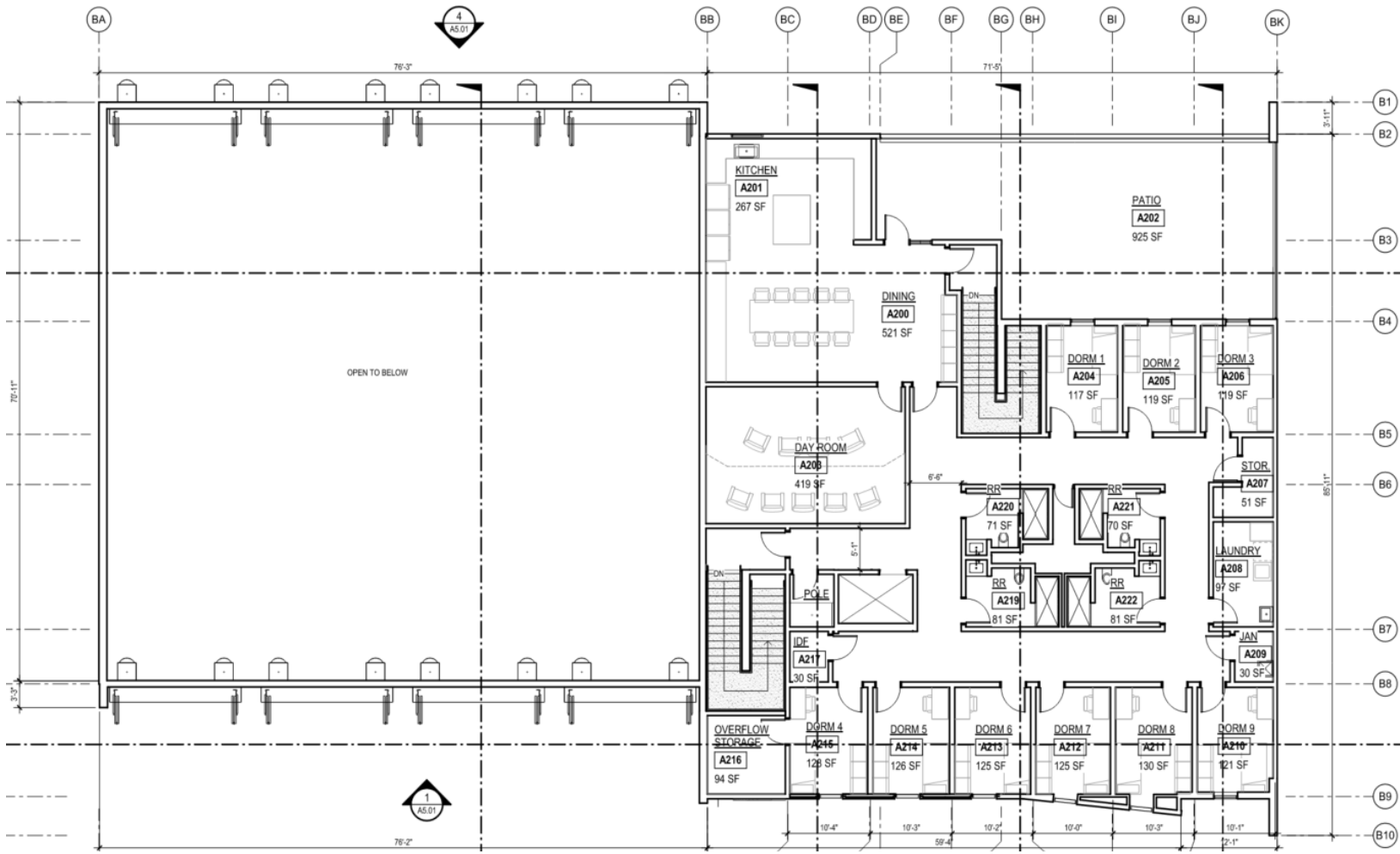
Fire Station 2 Floor Plan

- Total: 15,870 sq. ft.
- 1st Floor: ~10,950 sq. ft.
- Enhanced layout with:
  - Apparatus Bay (4 bays)
  - Decontamination/Hazmat/ Turnout Rooms
  - Shop and SCBA Rooms
  - Offices and Storage
  - BC and TC Dorm Suites
  - Fitness Room
  - Lobby/Conference Room



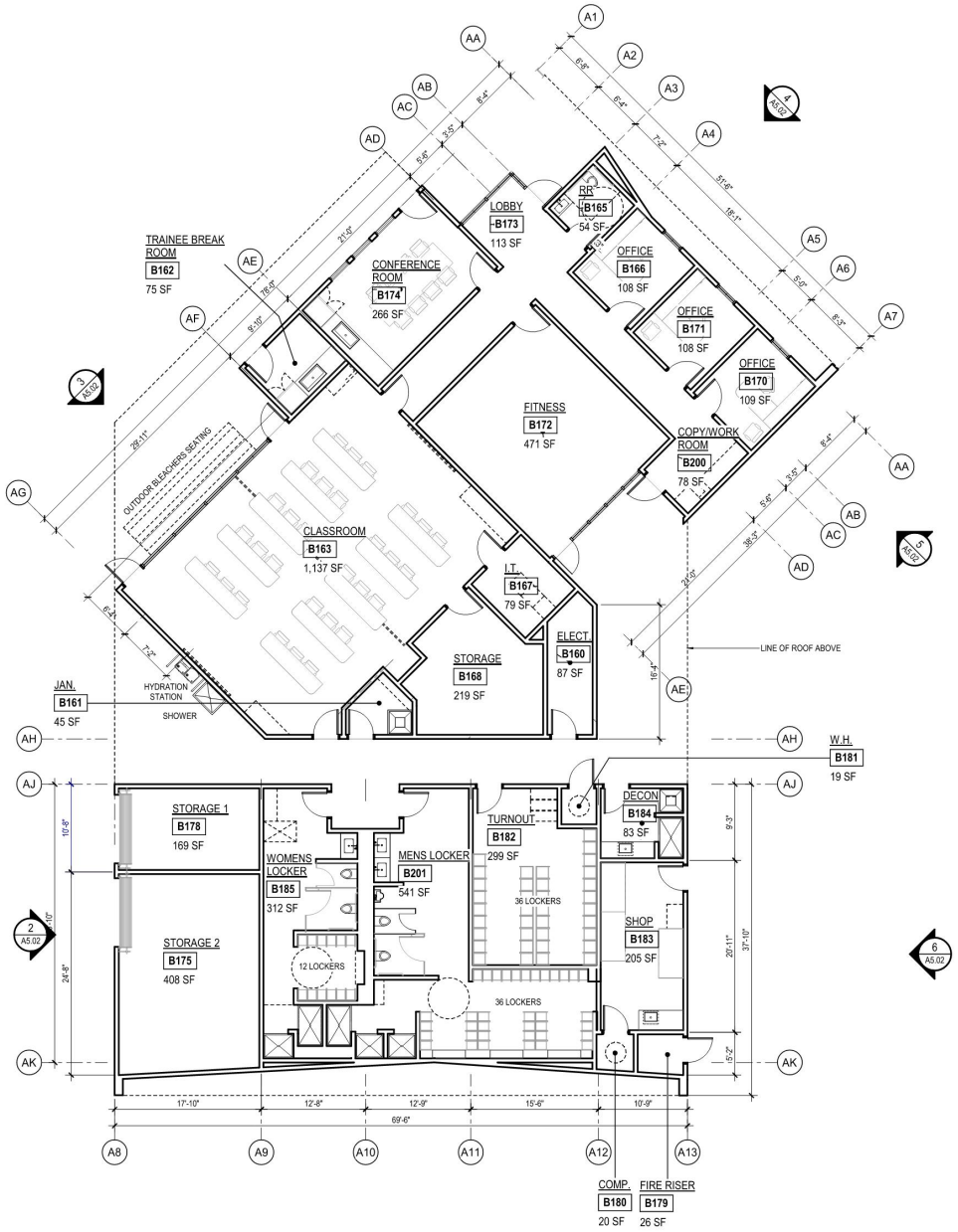
Fire Station 2 Floor Plan

- Total: 15,870 sq. ft.
- 2nd Floor: ~5,960 sq. ft.
- Enhanced layout with:
  - Kitchen and Dining Room
  - Enclosed Day Room
  - Outdoor Patio
  - Dorms and Restrooms
  - Laundry and Storage
  - Elevator and Support Spaces



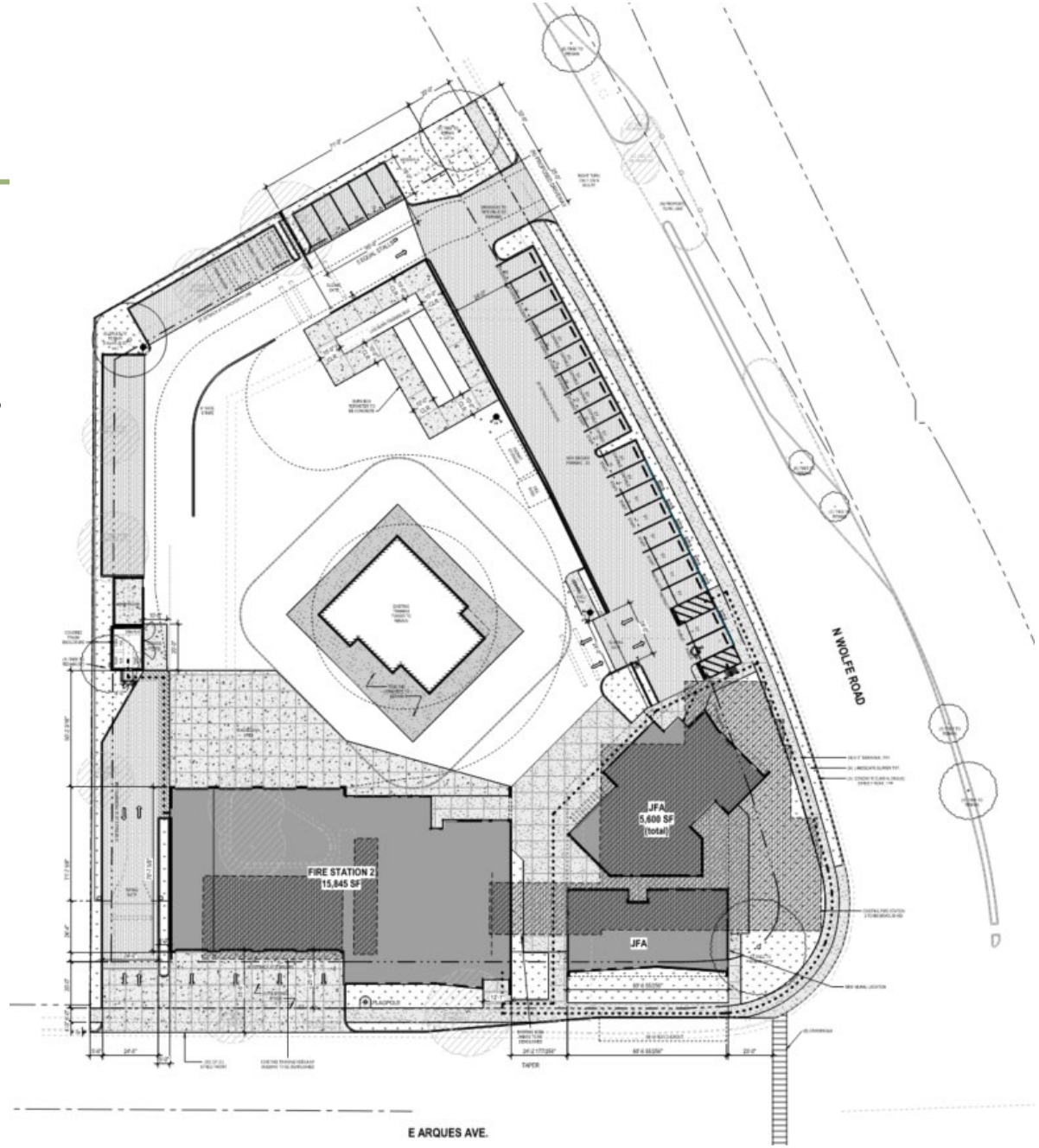
Training Center Floor Plan

- Approx. 5,850 sq. ft.
- Significant improvement for training
- Improved and Enhanced layout with:
  - Classroom (indoor and outdoor seating)
  - Fitness area
  - Separate Mens and Womens Locker Rooms
    - Allows the Training Tower Apparatus Bay to be restored to use
  - Turnout Gear Room
  - Decontamination Room
  - Shop and Storage



Construction Phasing

- **Phase 0 (prior to construction):** Relocate EMS trailer (by others) and relocate/sell existing training center modular building.
- **Phase 1:** Demo Drafting Pit and SCBA Annex. Build new Fire Station 2.
- **Phase 1a:** Move staff into new Fire Station 2.
- **Phase 2:** Demo existing station. Build new training center.
- **Phase 3:** Complete site and frontage improvements and install Public Art.



Fire Station 2 Public Entrance

- Simple Massing
- Materials
- Subtle Angles

Training Center and Public Parking Lot

- Consistent Massing and Materials
- “Wedge” Shape
- Optimized space around tower
- Secured site

Training Center Entrance

East Arques Frontage and Façade

Corner Aerial Perspective (Wolfe/Arques)

Schedule

City Permitting	Construction Bidding	Construction	Grand Opening
• Complete by late 2025	• Contract Award by Spring 2026	• Complete by late 2027	• Early 2028

Recommendation

Alternative 1: Approve the Recommended Conceptual Design for the Fire Station 2 – New Construction Project

Thank you

Questions?