



ARB SUBMITTAL

CITY OF PALO ALTO

PUBLIC SAFETY BUILDING

250 Sherman Ave.

PROJECT DATA

Lot C6 - Proposed Public safety Building (250 Sherman)

Zoning designation:	PF
Land use designation:	Major Institutional Special Facility (MISP)
Maximum site coverage:	30%
Maximum FAR:	1:1
Maximum building height:	50'-0"; 35'-0" @ SW corner

Lot Area:	1.27 acres (55,164 sf)
Existing lot coverage:	Zero, the lot is undeveloped
Proposed lot coverage:	29.20%
Existing floor area ratio (FAR):	Zero the lot is undeveloped
Total floor area	45,400 - 48,000 sf
Proposed floor area ratio (FAR):	0.74
Building foot print:	17,208 sf
Site area:	55,164 sf
Proposed building height:	49 feet
Existing onsite parking:	155 Spaces
Required new onsite parking:	162 Spaces
Proposed new onsite parking:	1145 + (9 tandem) parking stalls
Existing easements	None

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- ARCHITECTURAL CHARACTER & MASSING
- ARCHITECTURAL CHARACTER & MASSING
- CONCEPTUAL NIGHT VIEW

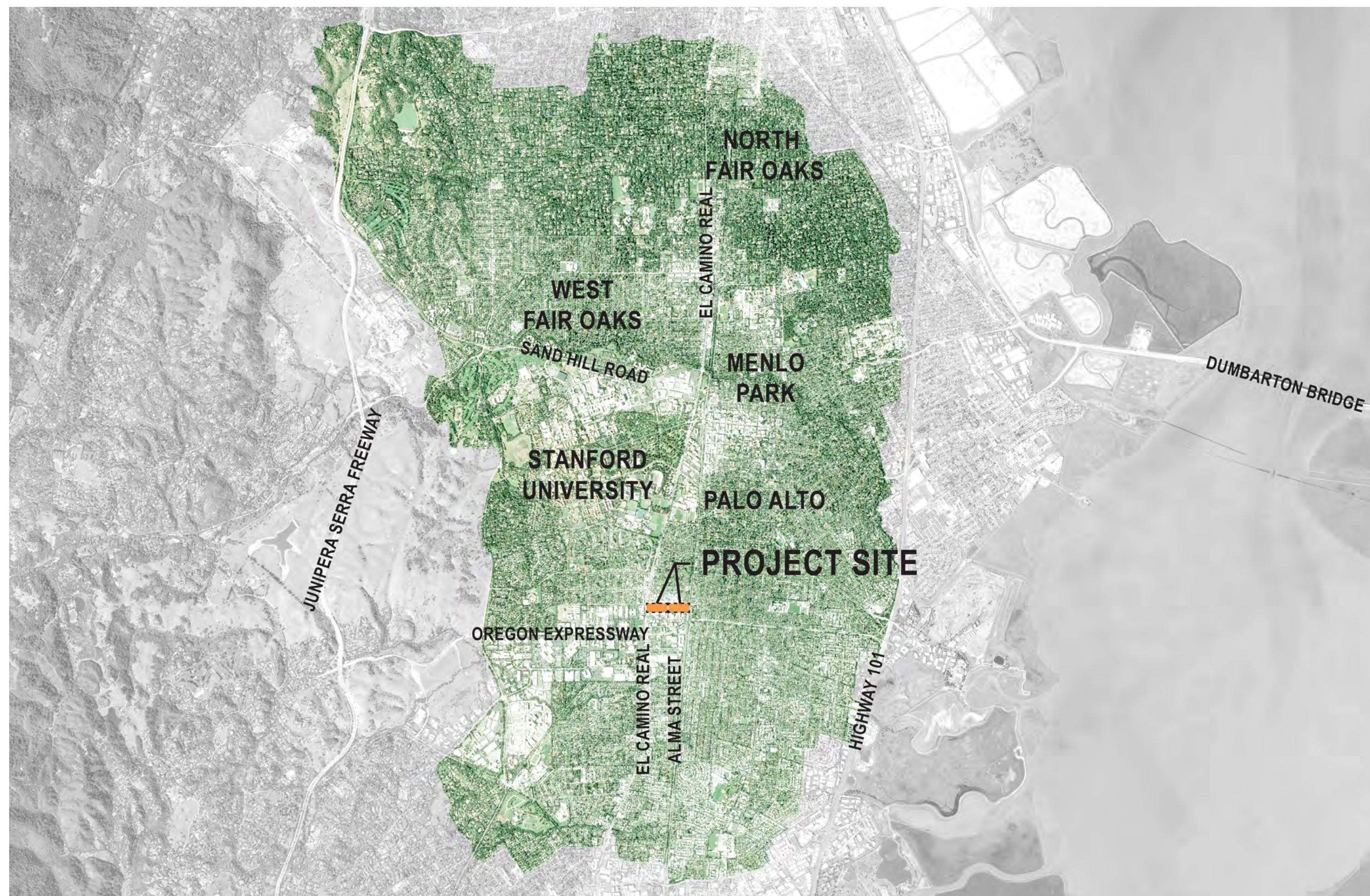
COVER SHEET

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- FLOOR PLAN - 1ST FLOOR
- FLOOR PLAN - UTILITY YARD (1ST FLOOR)
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- FLOOR PLAN - 3RD FLOOR
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ARB 00.01

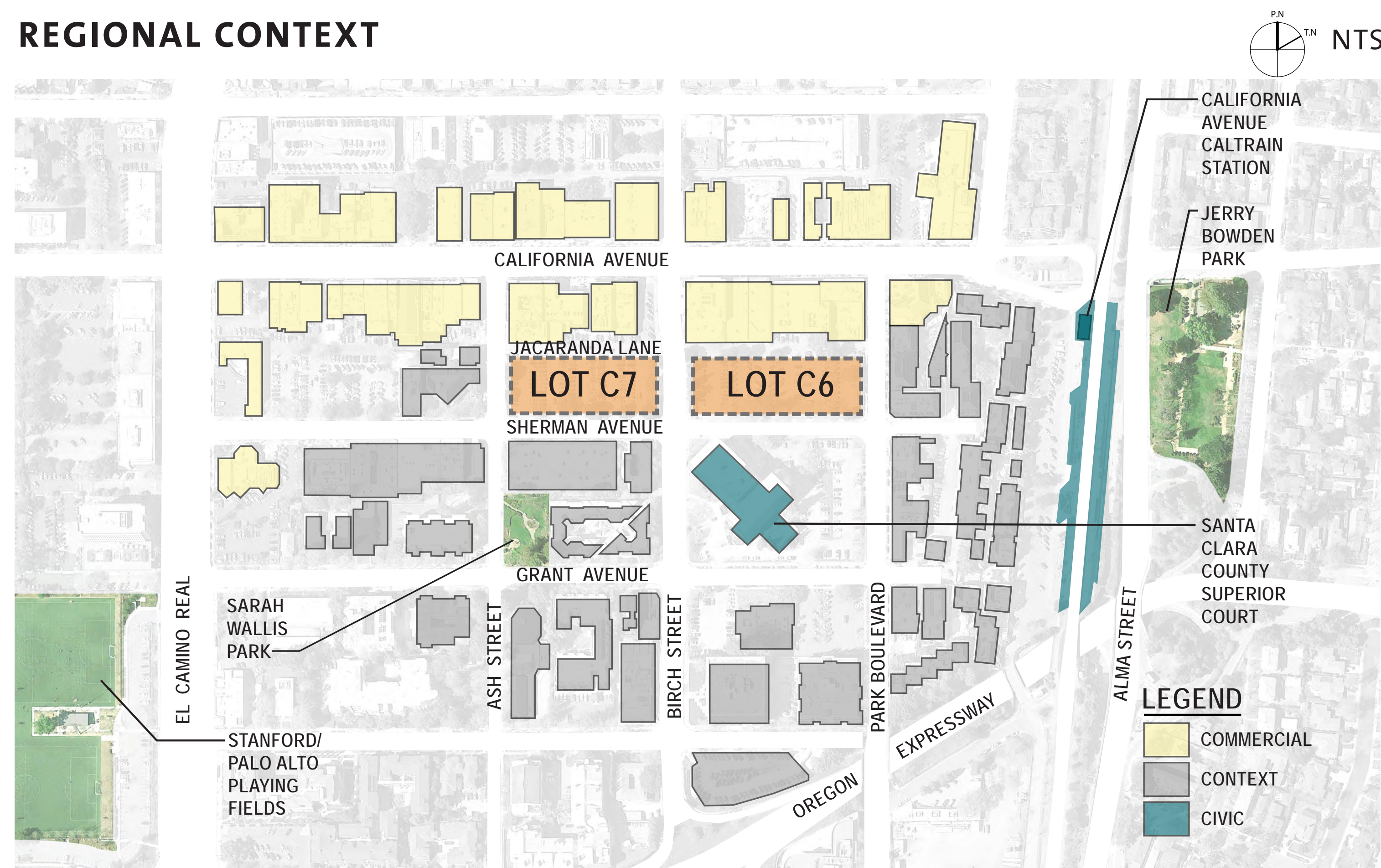


OVERVIEW

00

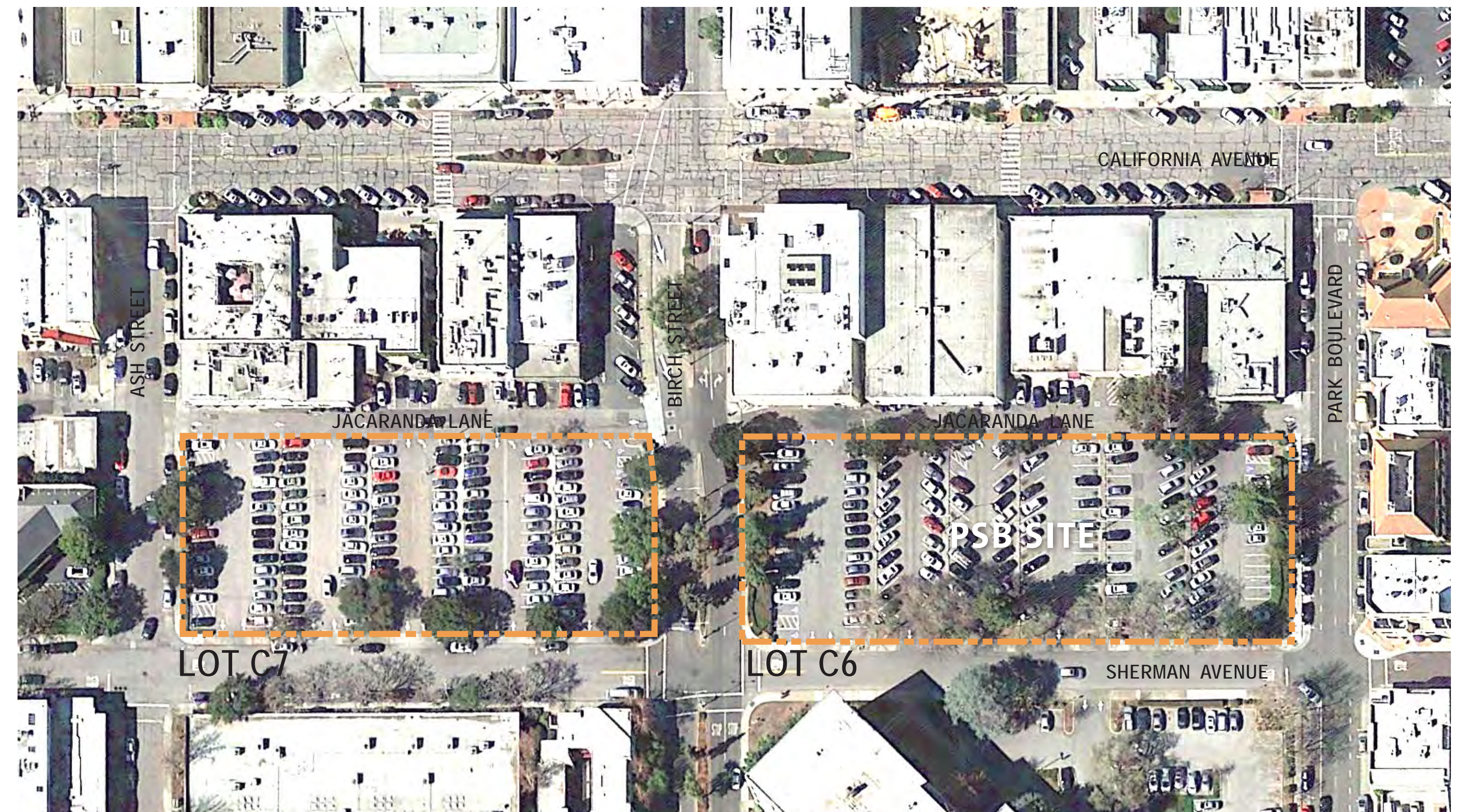
vicinity maps

REGIONAL CONTEXT



NEIGHBORHOOD CONTEXT

VICINITY MAPS



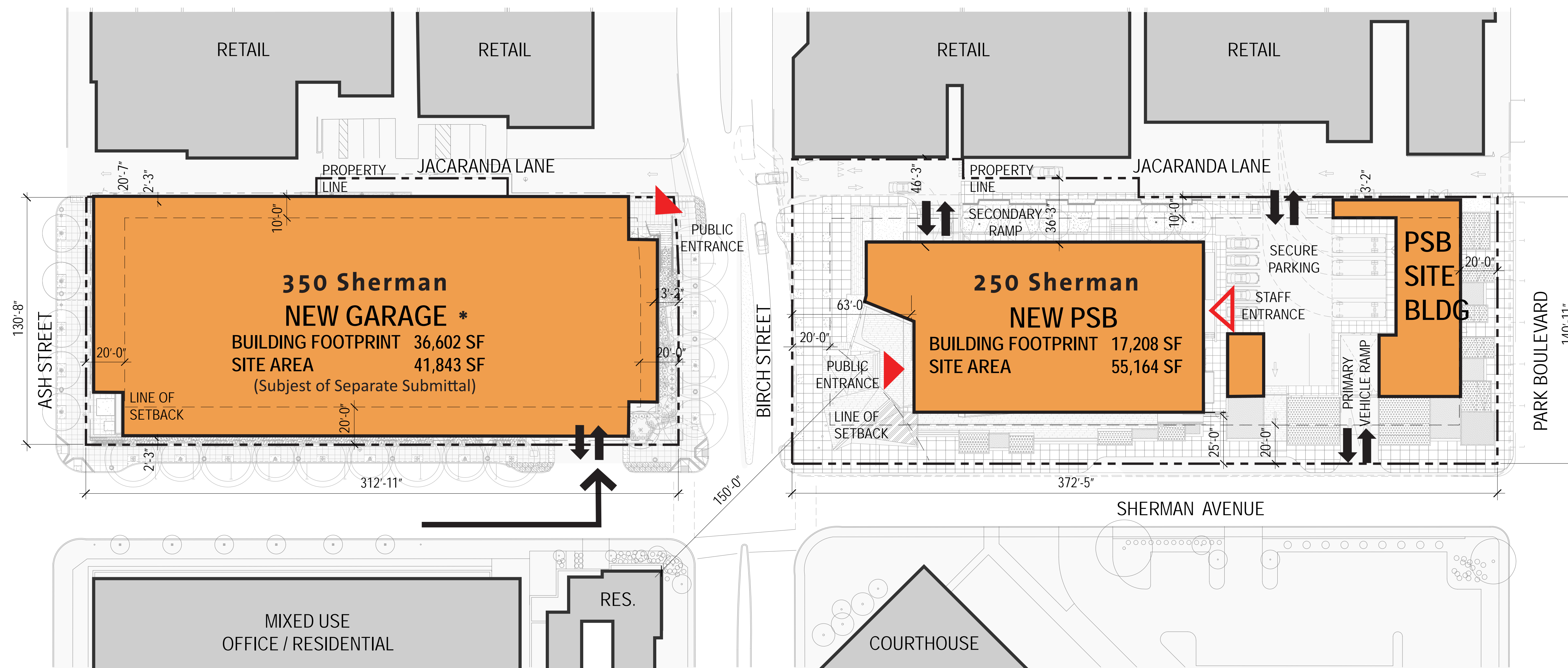
EXISTING SITE CONDITIONS

* INFORMATION OF PUBLIC GARAGE BUILDING PROJECT UNDER SEPERATE SUBMITTAL **ARB 00.02**

OVERVIEW

00

technical diagrammatic site plan



* INFORMATION OF PUBLIC GARAGE BUILDING PROJECT (350 SHERMAN) UNDER SEPERATE SUBMITTAL

PROJECT DATA

250 Sherman - Proposed Public Safety Building

Zoning designation:	PF
Land use designation:	Major Institutional Special Facility (MISP)
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Required new onsite parking:	162 Spaces
Proposed new onsite parking:	145 + (9 tandem) parking stalls
Existing easements	None



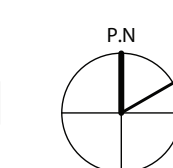
ALLOWABLE SETBACKS (ZONE PF, BASED ON R-40)

JACARANDA LANE SIDE: 10' *
STREET SIDE: 20' *

*PF ZONE TEXT AMENDMENT FOR THE PUBLIC GARAGE IS IN PROGRESS TO ALLOWED FOR REDUCED SETBACKS.



KEY PLAN



TECHNICAL DIAGRAMMATIC SITE PLAN



1 VIEW OF LOT C6 FROM THE INTERSECTION OF SHERMAN & BIRCH STREETS

OVERVIEW

00

existing context photos
LOT C6



2 VIEW FROM LOT C6 - EAST



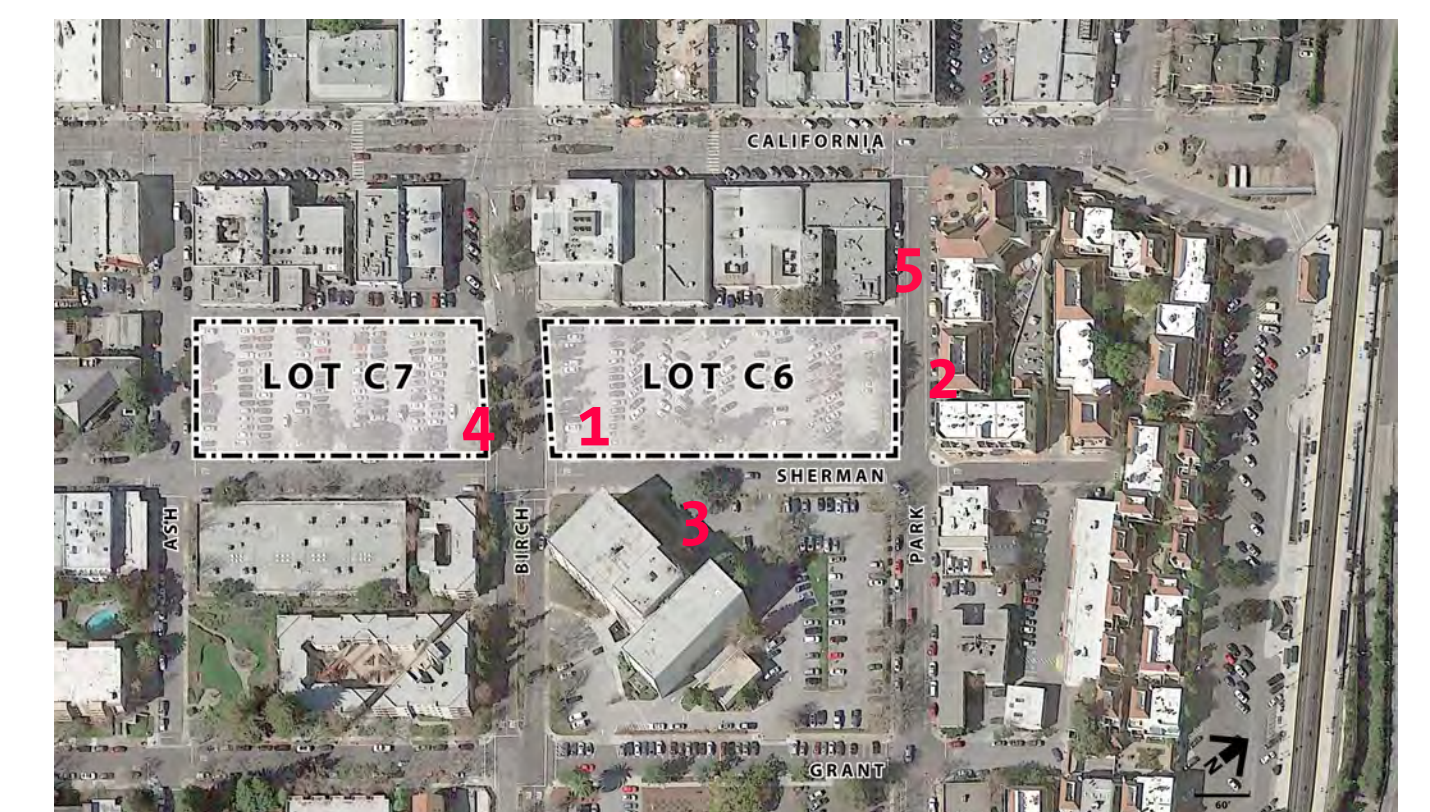
3 VIEW FROM LOT C6 - SOUTH



4 VIEW FROM LOT C6 - WEST

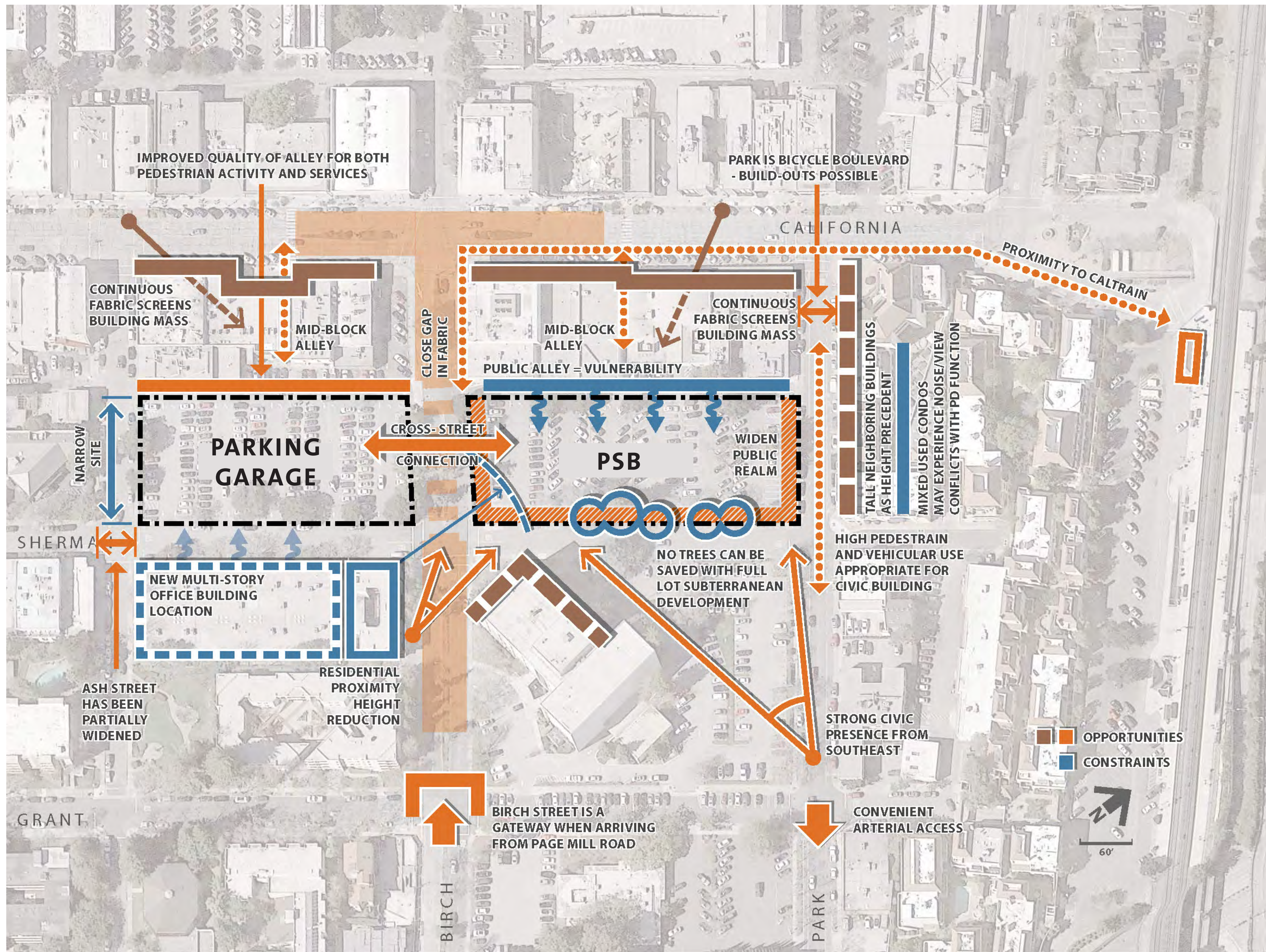


5 VIEW FROM LOT C6 - NORTH



KEY PLAN

EXISTING CONTEXT PHOTOS - LOT C6



OVERVIEW

00

urban context overview

OPPORTUNITIES & CONSTRAINTS

* INFORMATION OF PUBLIC SAFETY BUILDING PROJECT (LOT C6) UNDER SEPERATE SUBMITTAL



COMPARATIVE HEIGHTS

URBAN CONTEXT OVERVIEW



KEY PLAN





CONCEPT

01

introduction

Public safety represents a diverse range of activities and responsibilities. The police and fire departments, along with the office of emergency management, oversee prevention, enforcement, rescue, outreach, education, monitoring, and a range of other critical activities. Public safety duties are dynamic, watchful, protective, engaged, helpful, serious, unpredictable.

Palo Alto's California Avenue neighborhood—the context for the City's new Public Safety Building (PSB)—boasts of a character equally diverse and fluid. The commercial and civic neighborhood conflates a plurality of styles, scales, eras and characteristics. Over-scale civic and office buildings abut fine-grain historic commercial fabric, right angles clash with diagonals, small local businesses stand national chains. The neighborhood defies singular characterization; it displays this diversity and vibrancy proudly.

The design for the new Palo Alto Public Safety Building draws inspiration from these diversities. It is a building with a plurality of characteristics—operational and symbolic—that weave together to create a dynamic, integrated, programmatically and contextually responsive civic building. In this project, the civic lies in the negotiation of difference and diversity. Eschewing hierarchy, this project lifts, gestures, embraces, opens, inflects, reaches and glows in a dynamic balance of multiple qualities.

ARCHITECTURAL CHARACTER & MASSING

RossDrulisCusenbery ARCHITECTURE

ARB 01.01

PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

CONCEPT

01



ARCHITECTURAL CHARACTER & MASSING

RossDrulisCusenbery ARCHITECTURE

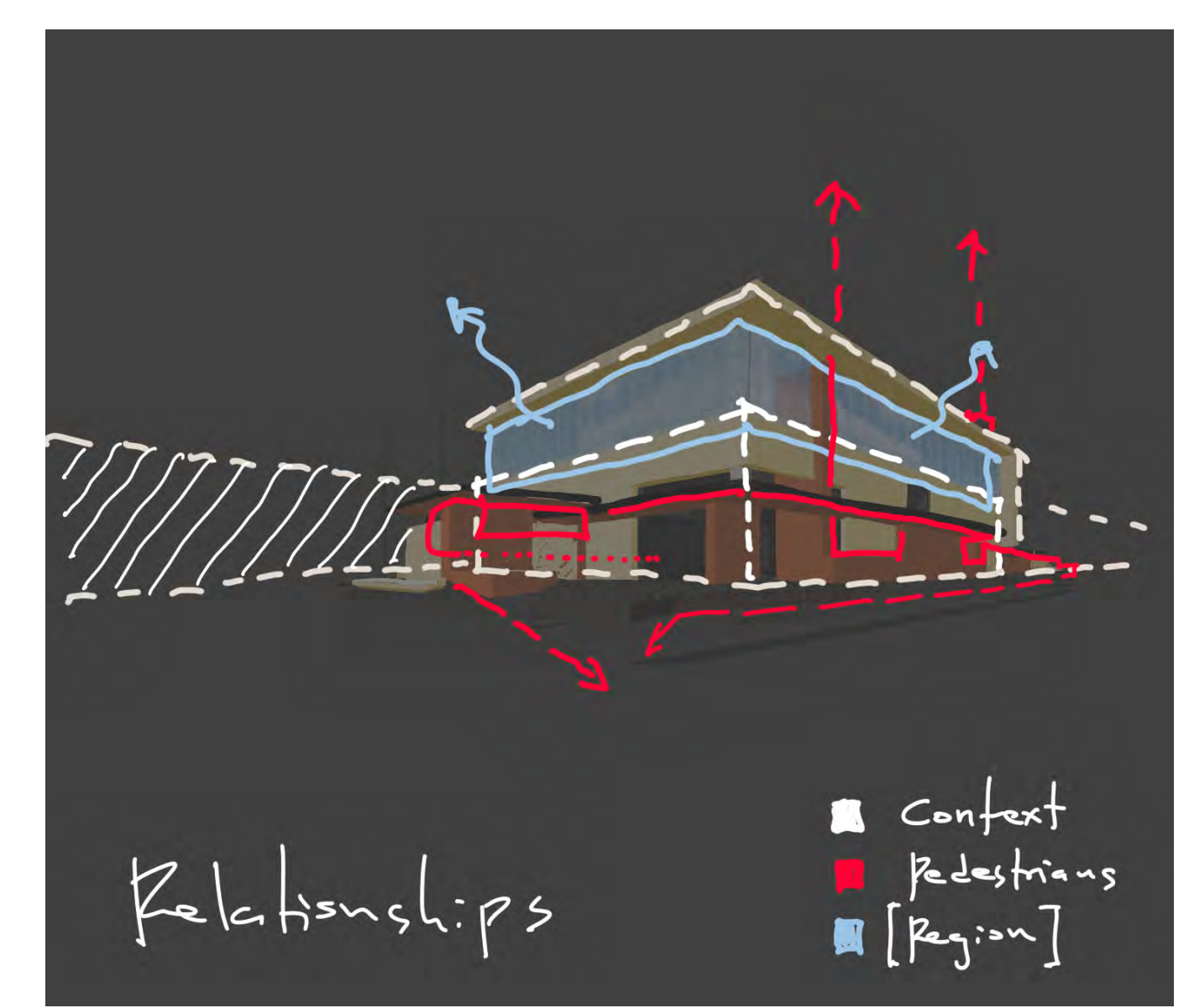
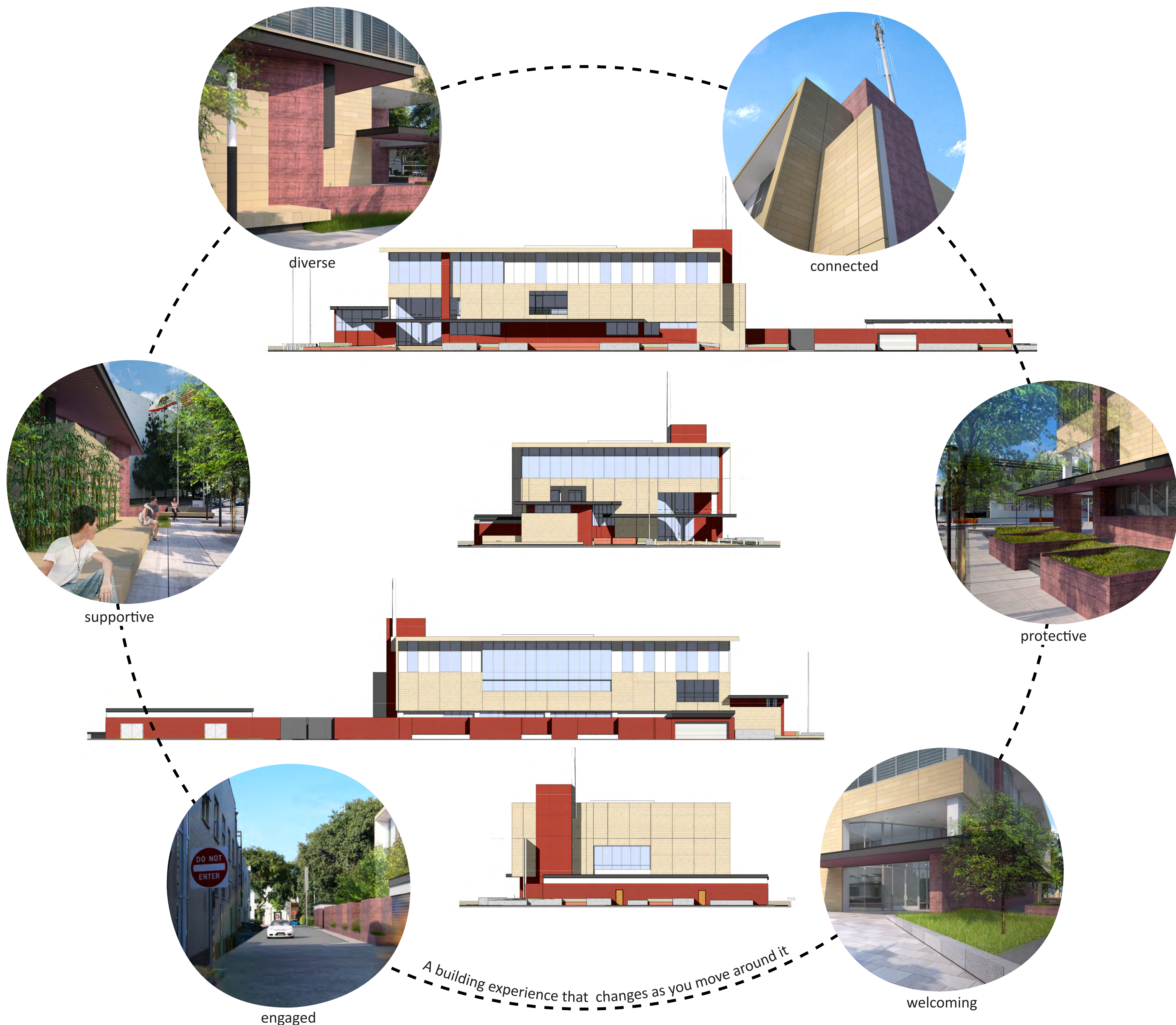
ARB 01.02

PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

CONCEPT 01 relationships

The new PSB is a composition of relationships. Warm materials and varied spaces weave together in a dynamic sequence of experiential vignettes. This building is the opposite of monolithic: relationships change continuously as one traverses the building. These interplays are intimate and pedestrian-scaled, accessible to touch and direct experience. The personality of the building emerges from these dynamic interplays, coasting from welcoming to protective, inviting, shady, comfortable, colorful, civic, generous, supportive, engaged, mysterious, firm.



CONCEPT DIAGRAMS



CONCEPT 01

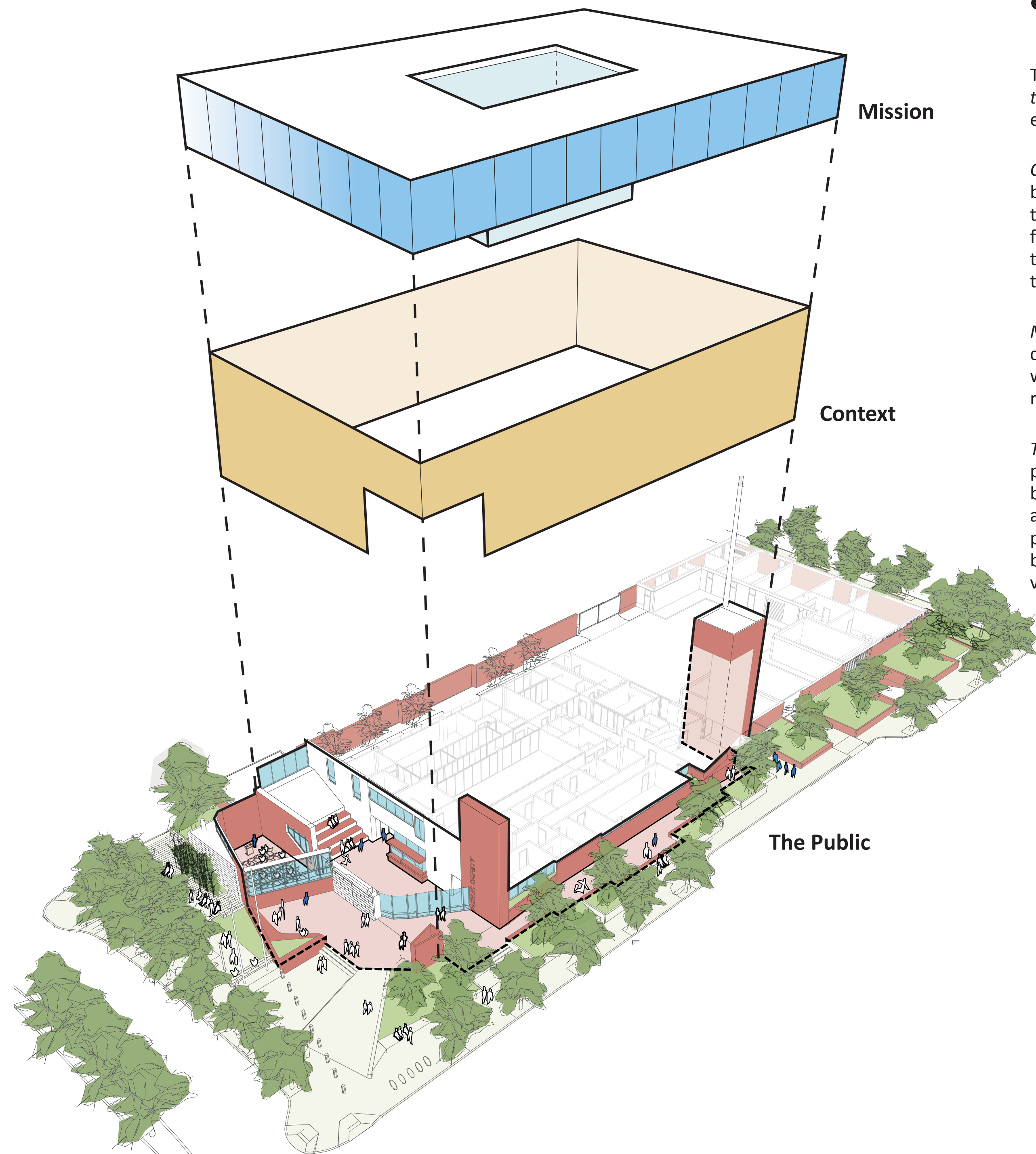
a composition of three

The varied building elements are distilled into three analogues: *Context*, *Mission*, and *The Public*. Each boasts its own unique material palette:

Context. The legacy and historic scale of the California Avenue neighborhood is important to acknowledge. By symbolically quoting the two-story scale with a stone-like volume, the PSB evokes this historic fabric and speaks directly to its neighbors. The sand-colored porcelain tile suggests gravity and permanence, evoking the legacy of the historic township of Mayfield.

Mission. The public safety mission is regional and expansive; in this design, the PSB mission is beacon and light. Clear glass and polished white porcelain—poised above the two-story sand-colored volume—reflect sky, glow at night.

The Public. The intimate experience of the individual weaves the project's elements together. An intimate, visceral terra-cotta tinted board-formed concrete building base inflects, and expands to support a pedestrian-scale topography of seating, canopies, landscaping, and protection. With vertical gestures and key symbolic junctures—the building entry, the communications tower—this terra-cotta realm provides a sense of belonging.



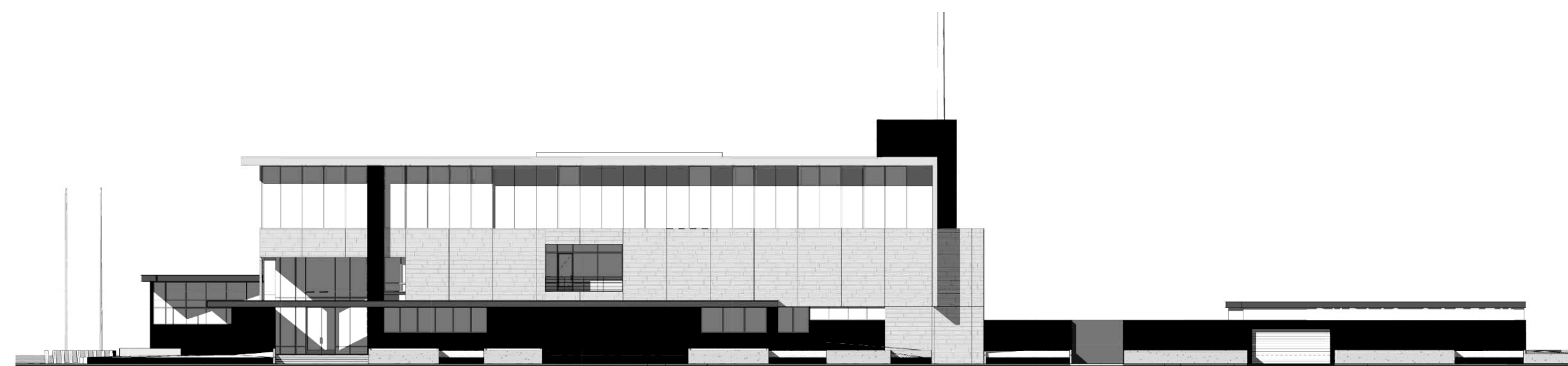
ARCHITECTURAL CHARACTER & MASSING



CONCEPT

01

The dynamic composition of materials and spaces converge at the point of entry to the building. The context volume lifts, the beacon becomes transparent, and the terra-cotta realm reaches out to invite the public inside.



ARCHITECTURAL CHARACTER & MASSING

RossDrulisCusenbery ARCHITECTURE

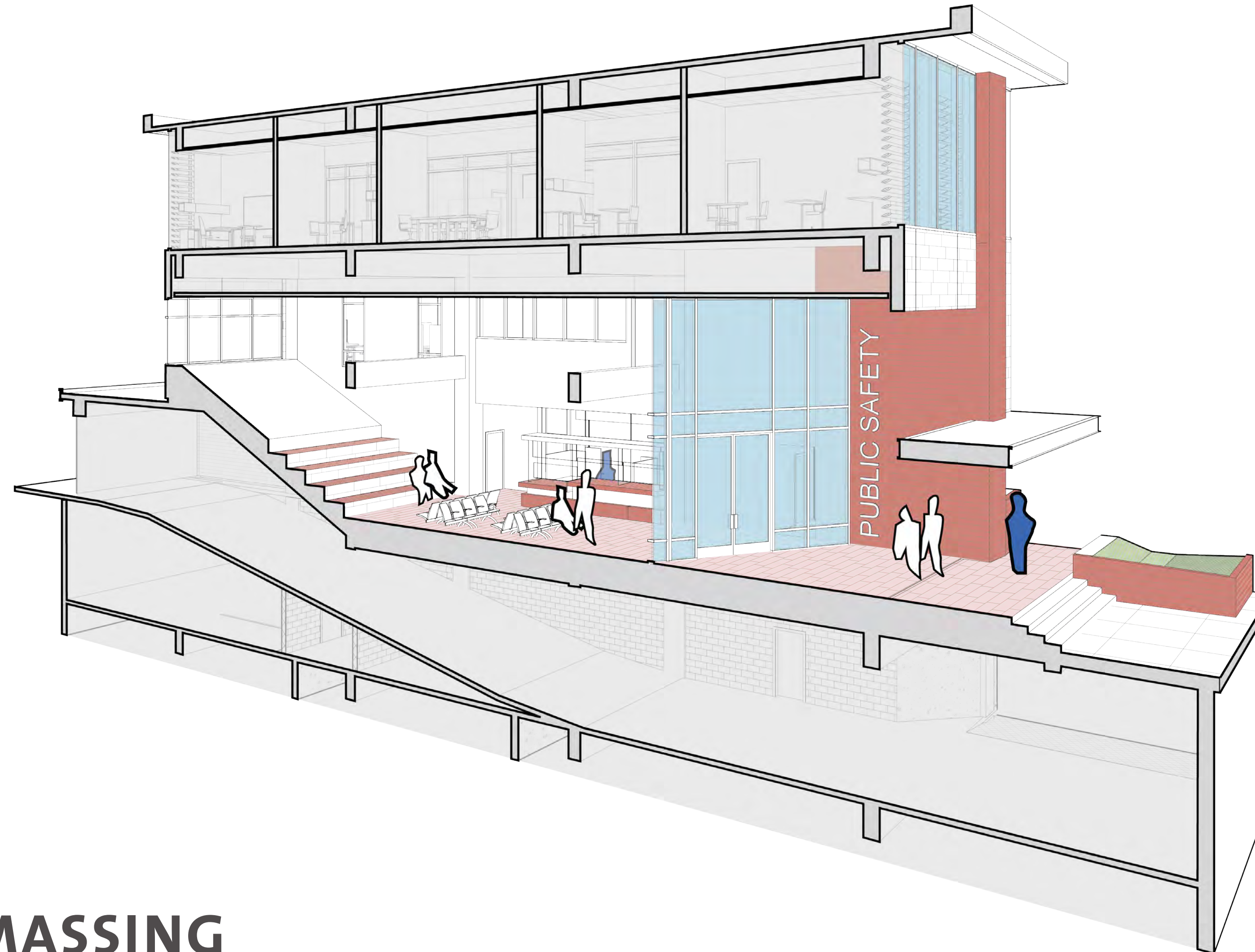
ARB 01.05

PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02



CONCEPT
01



ARCHITECTURAL CHARACTER & MASSING

RossDrulisCusenbery ARCHITECTURE

ARB 01.06

PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02



CONCEPT
01

CONCEPTUAL NIGHT VIEW (render to follow later)

RossDrulisCusenbery ARCHITECTURE

ARB 01.07

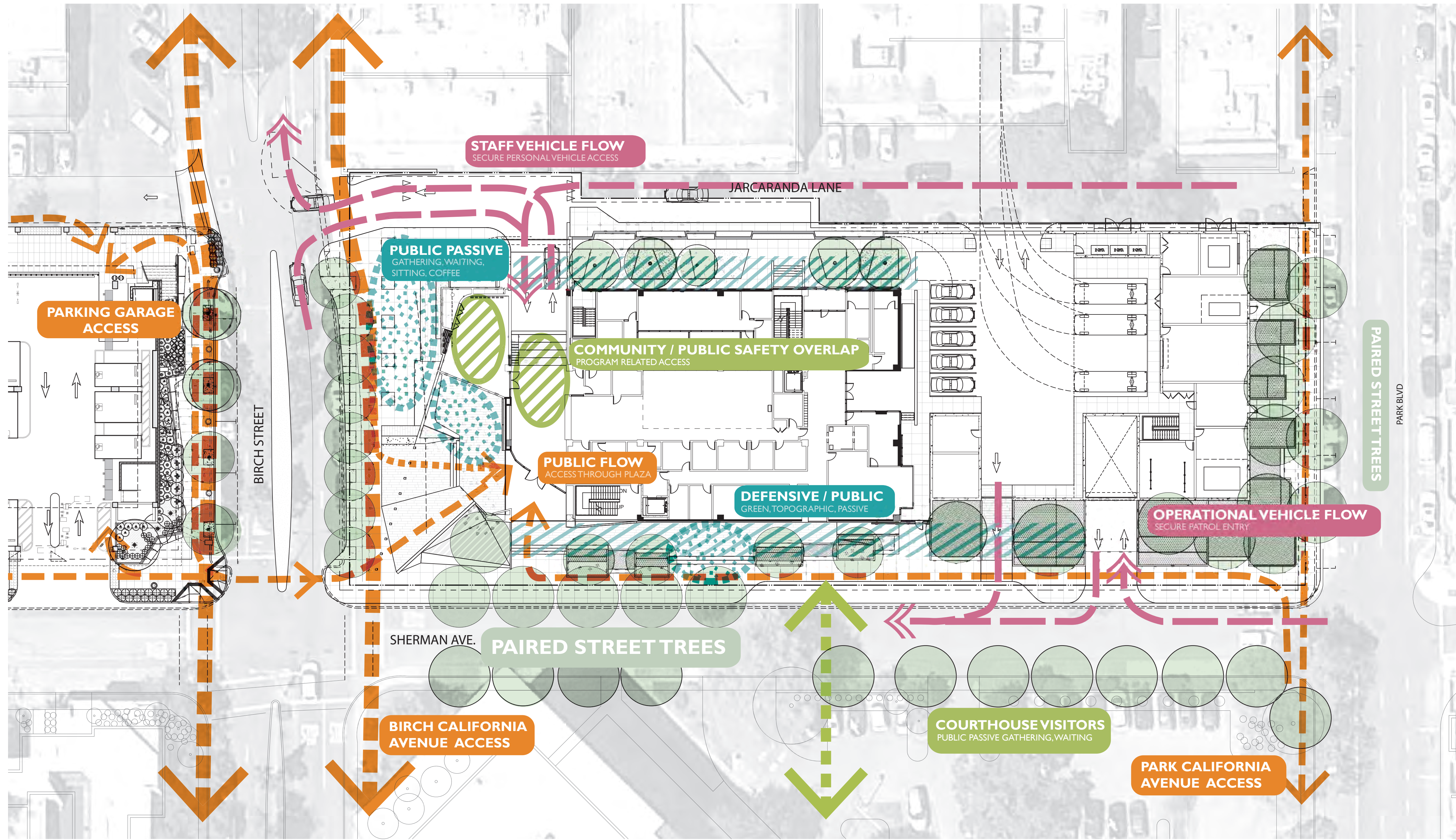
PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

SITE DEVELOPMENT

02

site flow diagram



PROPOSED REALM DIAGRAM
URBAN CONTEXT OVERVIEW

SITE DEVELOPMENT

02

site plan



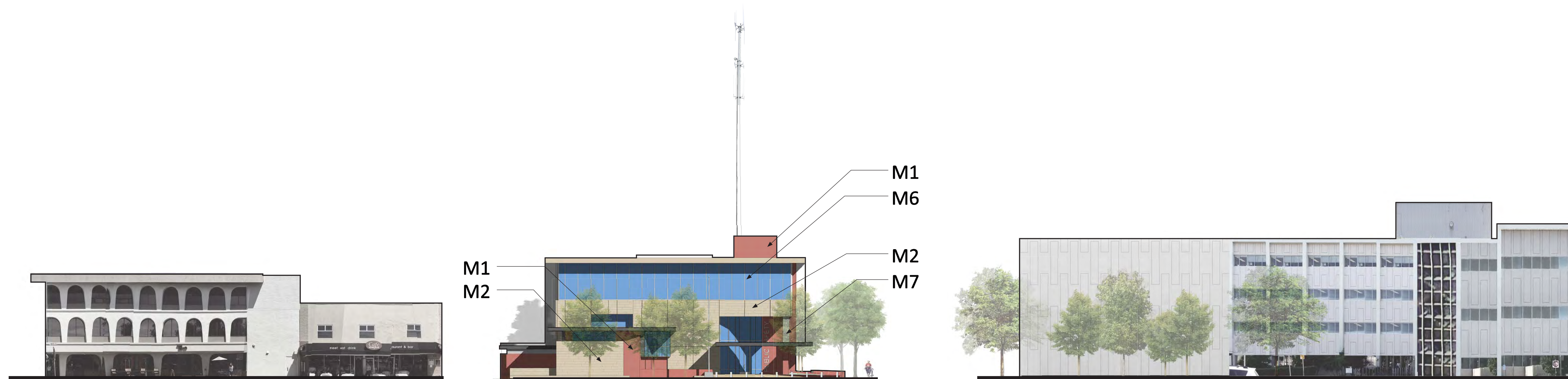
ILLUSTRATIVE SITE PLAN

ARB 02.02

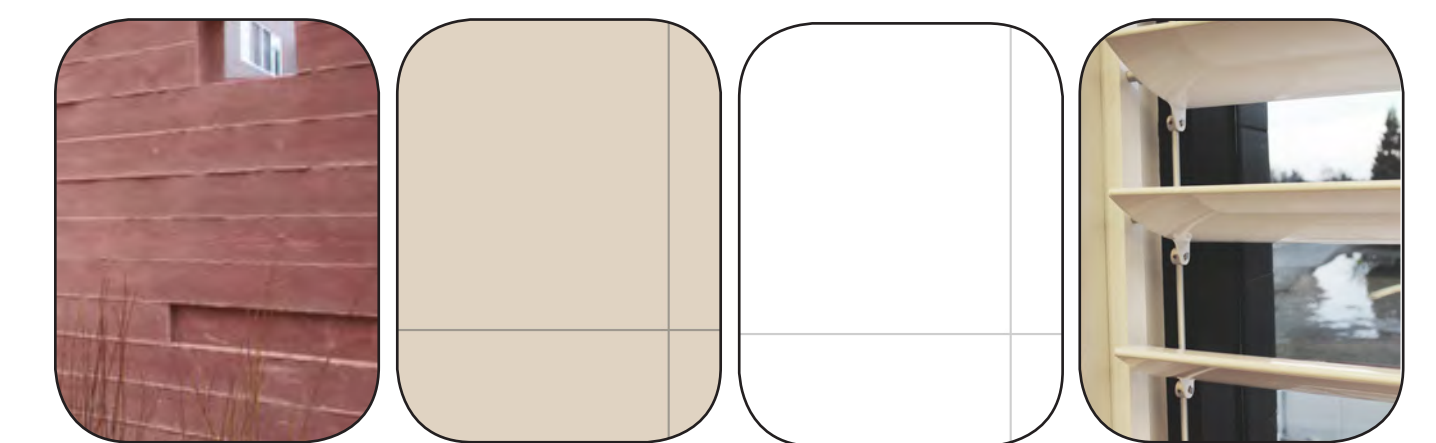
MATERIAL RELATIONSHIPS

03

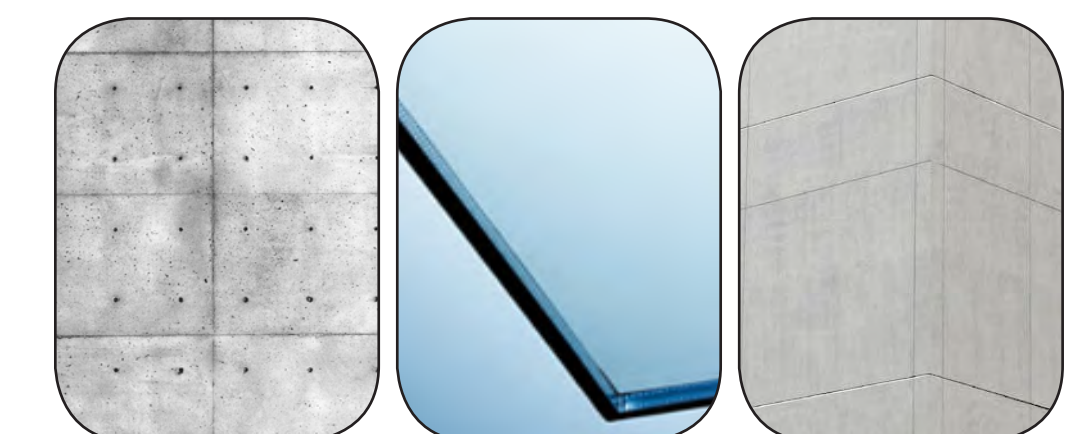
building elevations



WEST ELEVATION -- ALONG BIRCH STREET



- M1**
Tinted Readymix Cast-in-Place Concrete w/ Board Formliner. Color: TerraCotta
- M2**
Porcelain Tile Veneer on Precast Concrete Panel (Color: Sand. Finish: Matte)
- M3**
Porcelain Tile Veneer on Precast Concrete Panel (Color: White. Finish: Polished)
- M4**
Aluminum Aerofoil Louvers Interior



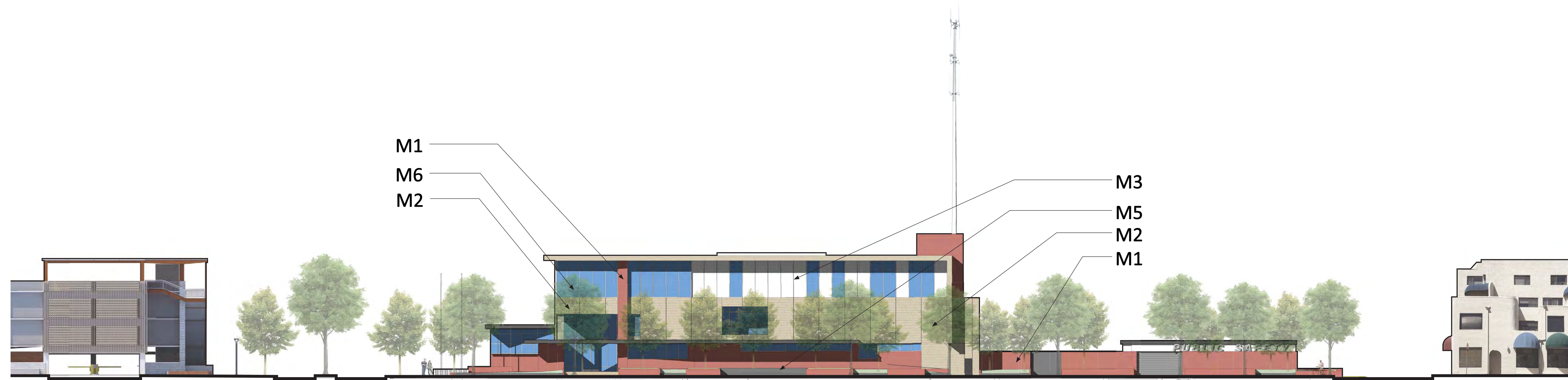
- M5**
Cast-in-Place Concrete (Finish: Smooth)
- M6**
Bird Safe Glazing
- M7**
Acrylic Modified Portland Cement Plaster

BUILDING ELEVATIONS - WEST

MATERIAL RELATIONSHIPS

03

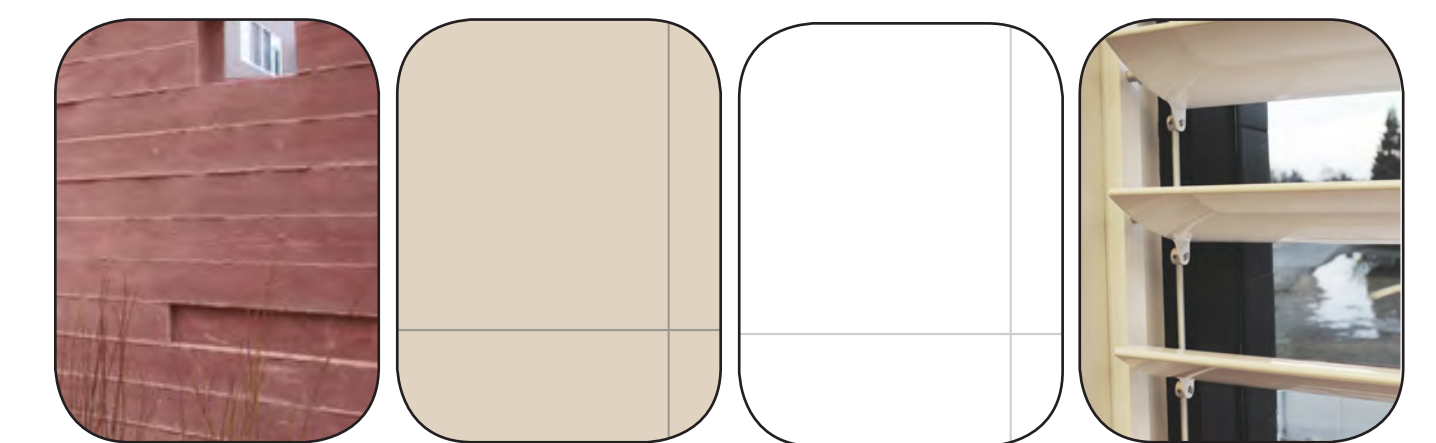
building elevations



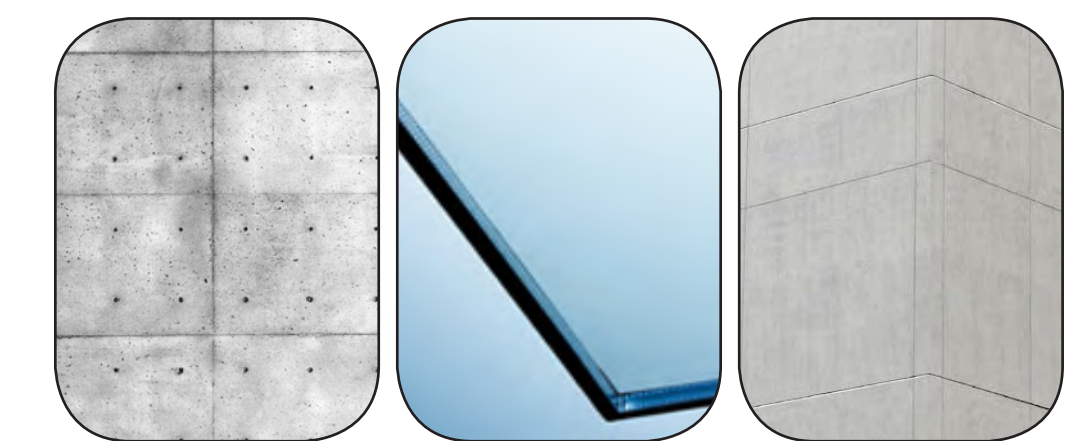
SOUTH ELEVATION -- ALONG SHERMAN AVE.



BUILDING ELEVATIONS - SOUTH



- M1**
Tinted Readymix Cast-in-Place Concrete w/ Board Formliner. Color: TerraCotta
- M2**
Porcelain Tile Veneer on Precast Concrete Panel (Color: Sand. Finish: Matte)
- M3**
Porcelain Tile Veneer on Precast Concrete Panel (Color: White. Finish: Polished)
- M4**
Aluminum Aerofoil Louvers Interior



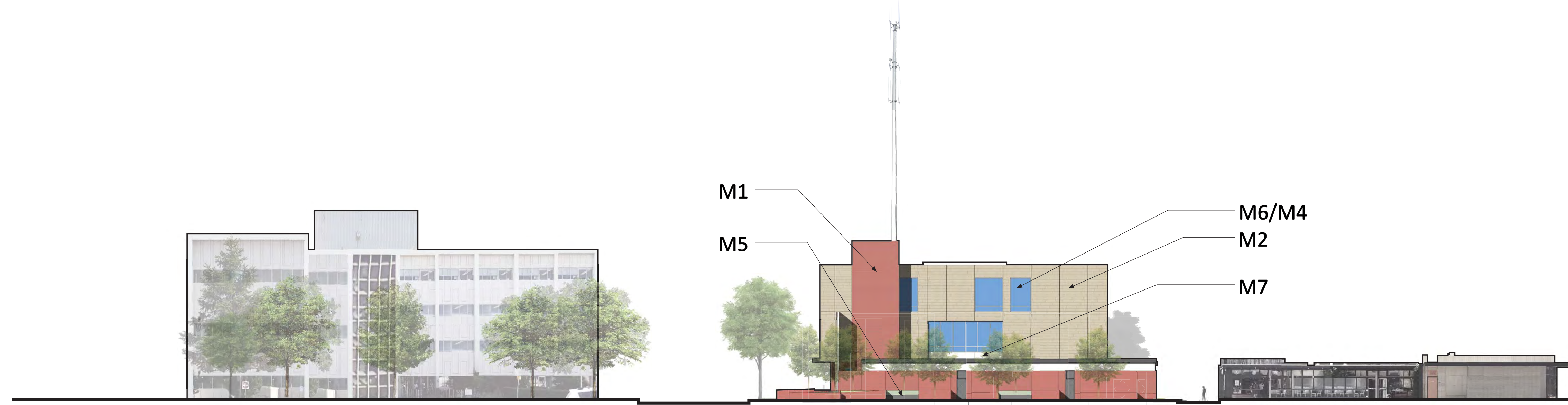
- M5**
Cast-in-Place Concrete (Finish: Smooth)
- M6**
Bird Safe Glazing
- M7**
Acrylic Modified Portland Cement Plaster

ARB 03.02

MATERIAL RELATIONSHIPS

03

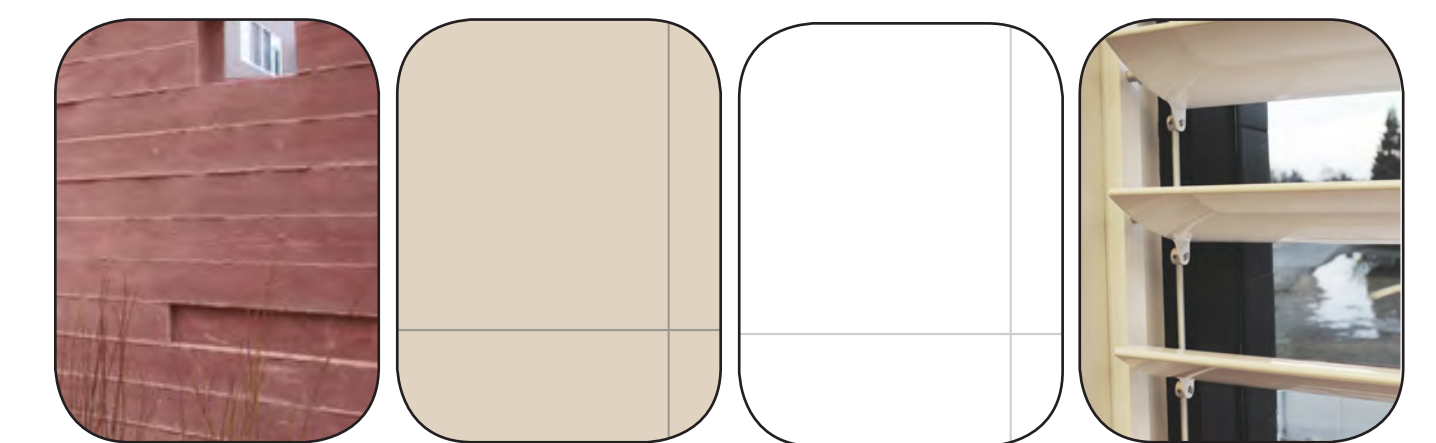
building elevations



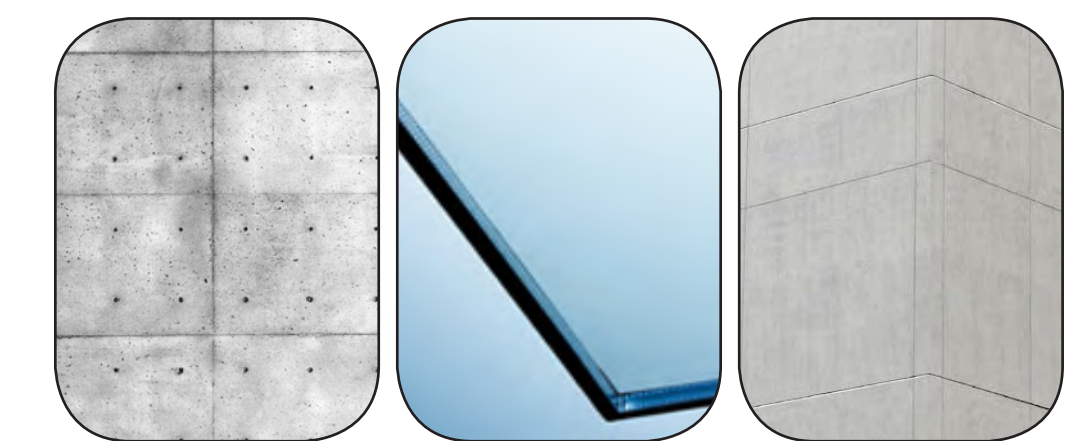
EAST ELEVATION -- ALONG PARK BLVD



BUILDING ELEVATIONS - EAST



- M1**
Tinted Readymix Cast-in-Place Concrete w/ Board Formliner. Color: TerraCotta
- M2**
Porcelain Tile Veneer on Precast Concrete Panel (Color: Sand. Finish: Matte)
- M3**
Porcelain Tile Veneer on Precast Concrete Panel (Color: White. Finish: Polished)
- M4**
Aluminum Aerofoil Louvers Interior



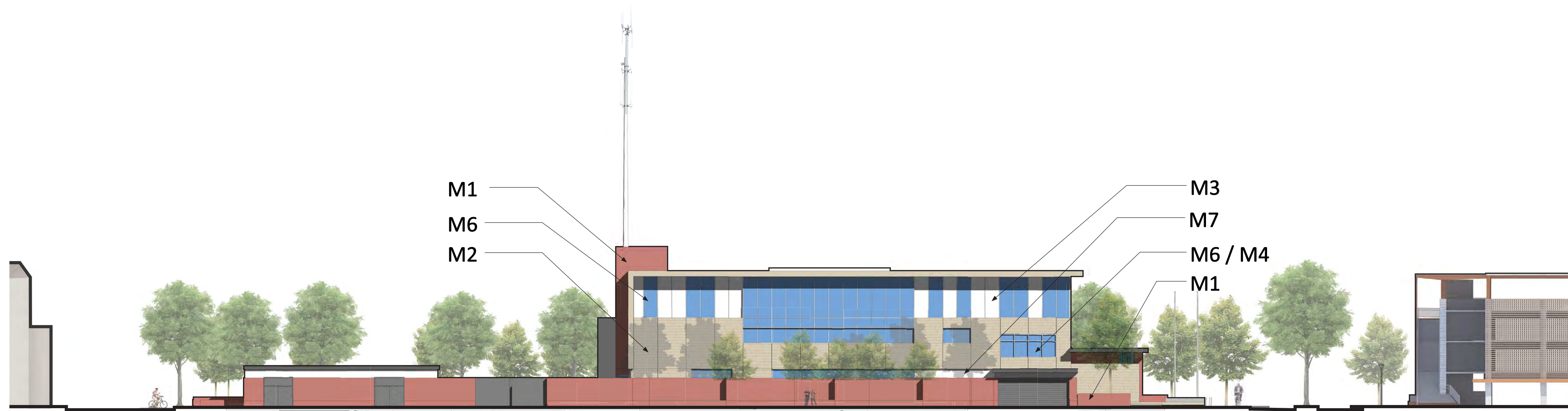
- M5**
Cast-in-Place Concrete (Finish: Smooth)
- M6**
Bird Safe Glazing
- M7**
Acrylic Modified Portland Cement Plaster

ARB 03.03

MATERIAL RELATIONSHIPS

03

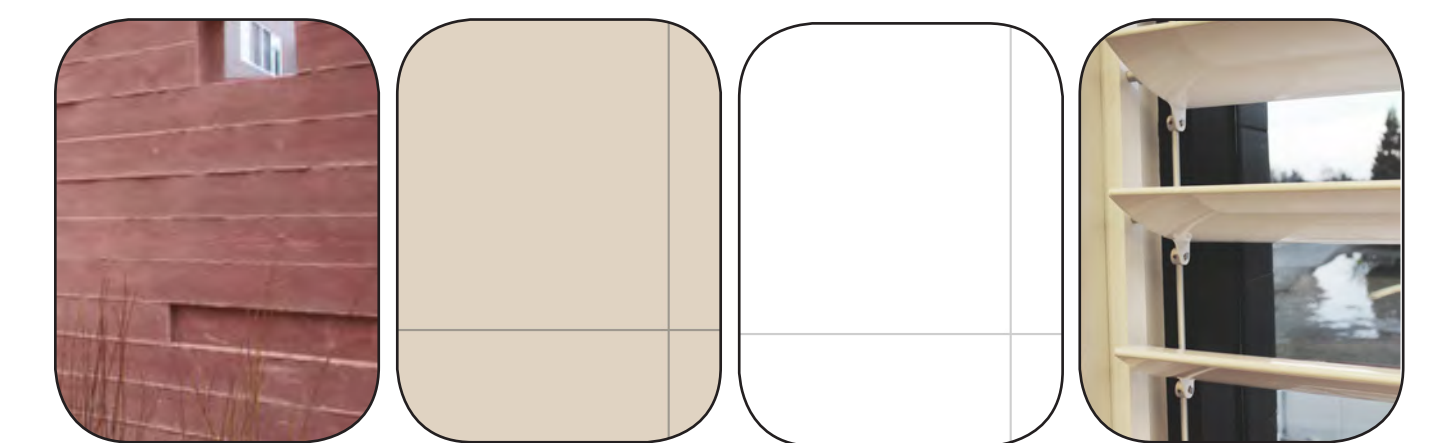
building elevations



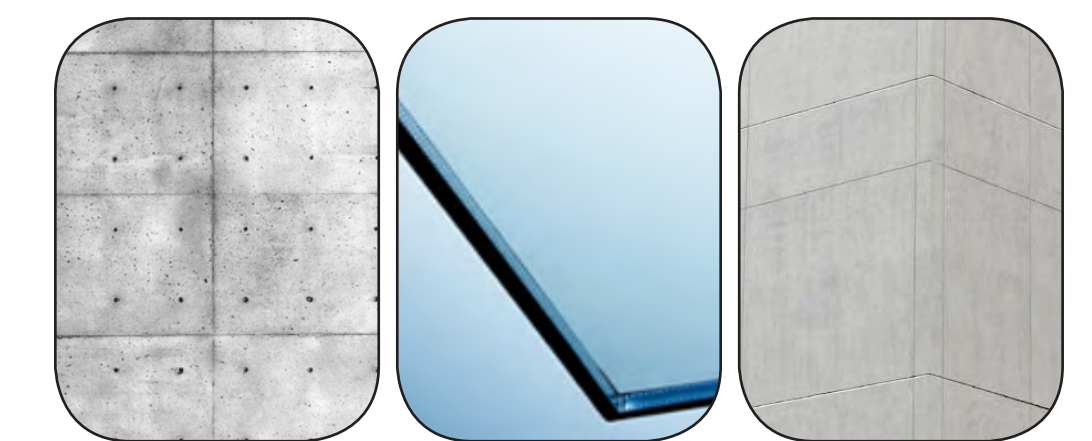
NORTH ELEVATION -- ALONG JACARANDA LANE



BUILDING ELEVATIONS - NORTH

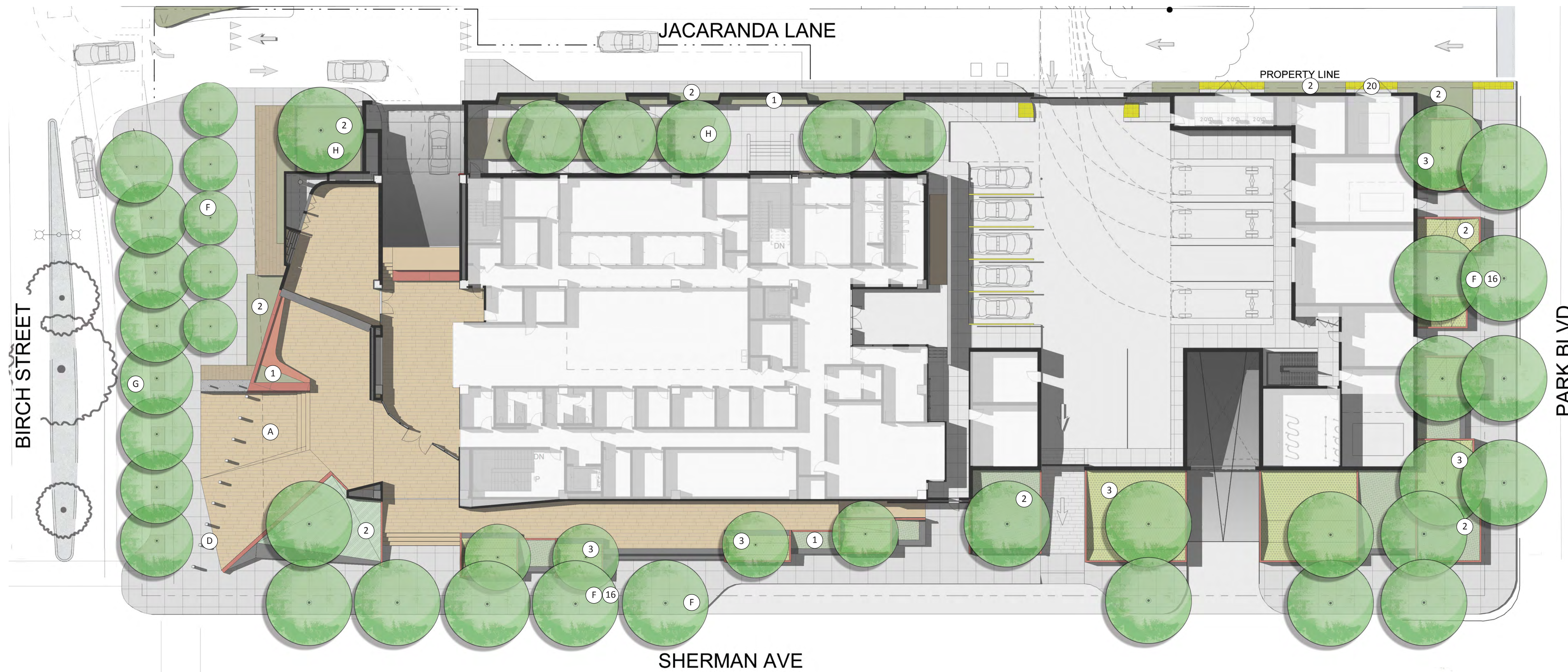


- M1**
Tinted Readymix Cast-in-Place Concrete w/ Board Formliner. Color: TerraCotta
- M2**
Porcelain Tile Veneer on Precast Concrete Panel (Color: Sand. Finish: Matte)
- M3**
Porcelain Tile Veneer on Precast Concrete Panel (Color: White. Finish: Polished)
- M4**
Aluminum Aerofoil Louvers Interior



- M5**
Cast-in-Place Concrete (Finish: Smooth)
- M6**
Bird Safe Glazing
- M7**
Acrylic Modified Portland Cement Plaster

ARB 03.04



LANDSCAPE

04

enlarged site plan

<p>PAVING</p>	<p>PLANTING TREES</p>	<p>PERENNIALS</p>	<p>VINES</p>
----------------------	------------------------------	--------------------------	---------------------

- LEGEND**
- ① PLANTING TYPE I
 - ② PLANTING TYPE II
 - ③ STORM WATER PLANTING
 - ④ (E) TREES
 - ⑤ VINES
 - ⑥ BUILT-IN SEATING TYPE I
 - ⑦ DECORATIVE GRAVEL
 - ⑧ TREES AT PARKING
 - ⑨ SEAT WALL
 - ⑩ BIKE PARKING
 - ⑪ TRASH & RECYCLING
 - ⑫ MOVEABLE SEATING
 - ⑬ PLAZA LIGHTING
 - ⑭ PEDESTRIAN SIDEWALK LIGHTING
 - ⑮ DOUBLE ALLEE
 - ⑯ BENCH SEATING
 - ⑰ TREE GRATE
 - ⑱ STONE BOLLARD & WALL
 - ⑲ TACTILE WARNING PAVERS
 - ⑳ CIP CONC. RAISED PLANTER
 - ㉑ NEAR-SITE TREE REPLACEMENT
 - ㉒ SPECIALTY PEDESTRIAN PAVING

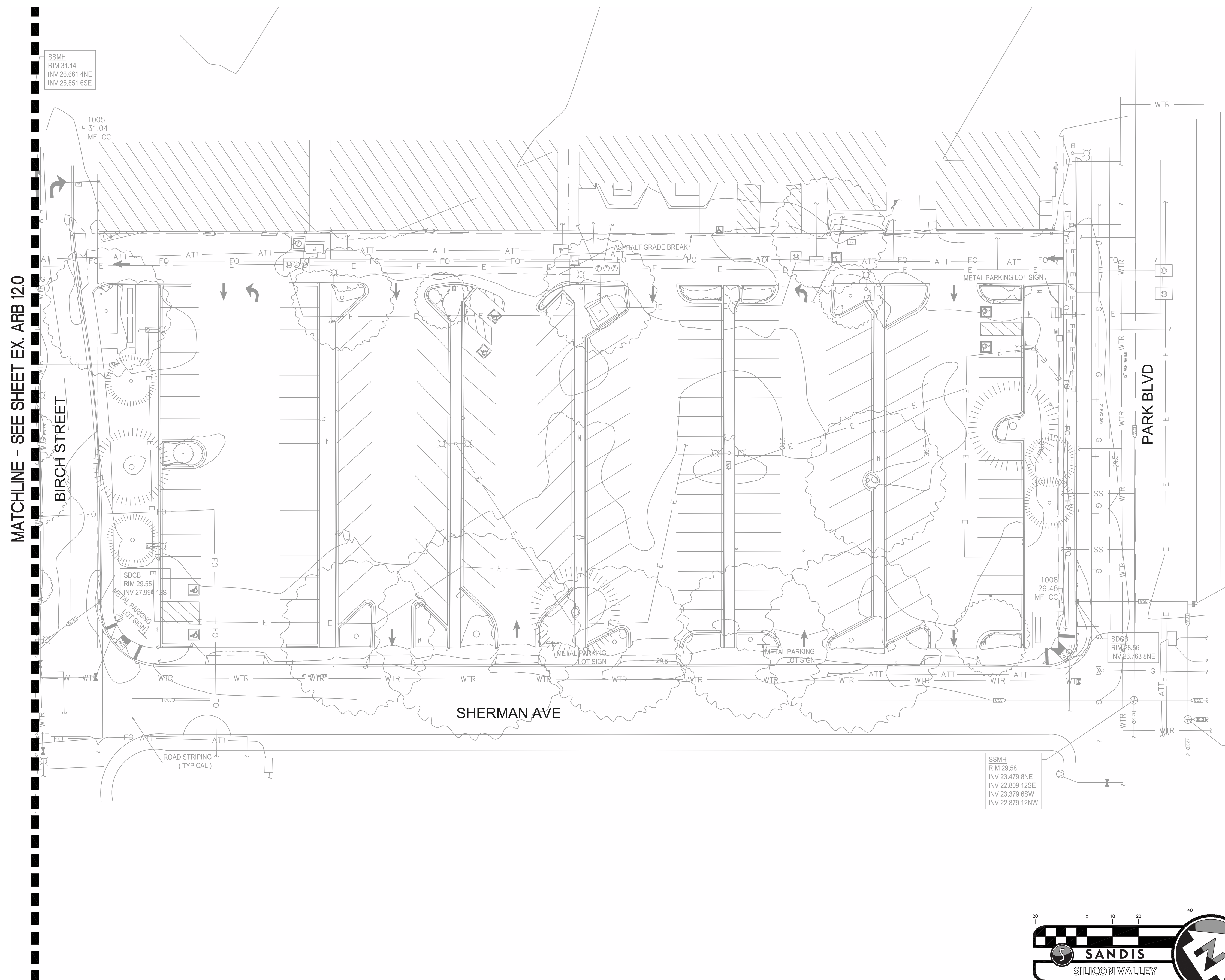
SITE CHARACTERISTICS - PUBLIC SAFETY BUILDING

ARB 04.01

PLAN RELATIONSHIPS

05

existing civil site plan



LEGEND

	EXISTING
SANITARY SEWER MAIN	8" SS
STORM DRAIN MAIN	12" SD
PERFORATED PIPE	
WATER MAIN	6" W
FIRE WATER	FW
GAS LINE	G
CAP AND PLUG END	
ELECTRIC AND SIGNAL DUCT BANK	E
COMMUNICATIONS LINE	C
WATER METER	WM
WATER VALVE	WV
SANITARY SEWER MANHOLE	SSMH
SANITARY SEWER CLEANOUT	SSCO
STORM SEWER MANHOLE	SSMO
STORM SEWER AREA DRAIN	SDAD
STORM SEWER INLET	SDSI
STORM SEWER CLEANOUT	SDCO

SURVEY NOTES

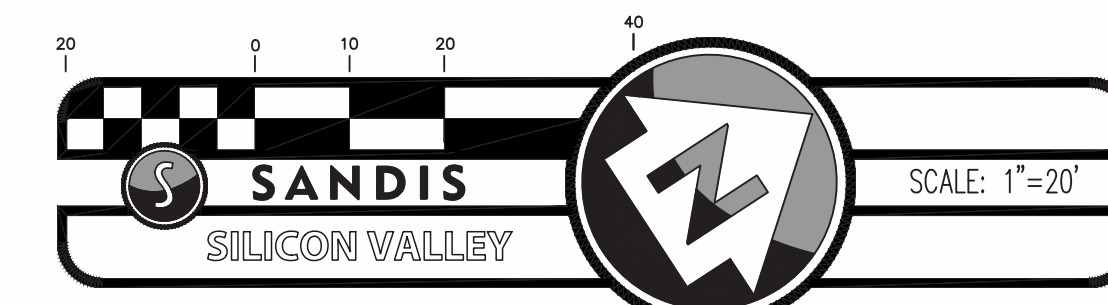
- EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS BASED UPON TOPOGRAPHIC SURVEYS COMPLETED BY SEIGFRIED, UNDER THE DIRECTION OF LASZLO ZOLD, PLS 8247.
- CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND REPORT BACK TO CIVIL ENGINEER ANY DISCREPANCIES WITH PLAN PRIOR TO COMMENCEMENT OF WORK.
- TREE LOCATIONS SHOWN HEREON ARE SHOWN SYMBOLICALLY WITH SYMBOL SIZES BASED UPON TRUNK DIAMETER AT CHEST HEIGHT, AT THE LOCATION WHERE THE TREE ENTERS THE GROUND SURFACE. LOCATIONS AND SIZES OF TREE TRUNKS CAN ONLY BE CONSIDERED APPROXIMATE UNLESS OTHERWISE STATED ON THE MAP.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE LINE BETWEEN SET CONTROL POINT MONUMENT 1525 AND 1526 SHOWN HEREON. THE BEARING BEING N48°53'39"W.

BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS A CHISELED SQUARE IN THE TOP OF CURB AT THE NW RETURN OF THE NW CORNER OF EL CAMINO REAL AND SHERIDAN AVENUE. CITY BENCHMARK #2079 (ELEVATION 33.08) PER THE CITY OF PALO ALTO SECONDARY VERTICAL CONTROL DATA BENCHMARK LIST. THE DATUM IS NGVD 29.



EXISTING CIVIL SITE PLAN

RossDrulisCusenbery ARCHITECTURE

ARB 05.01

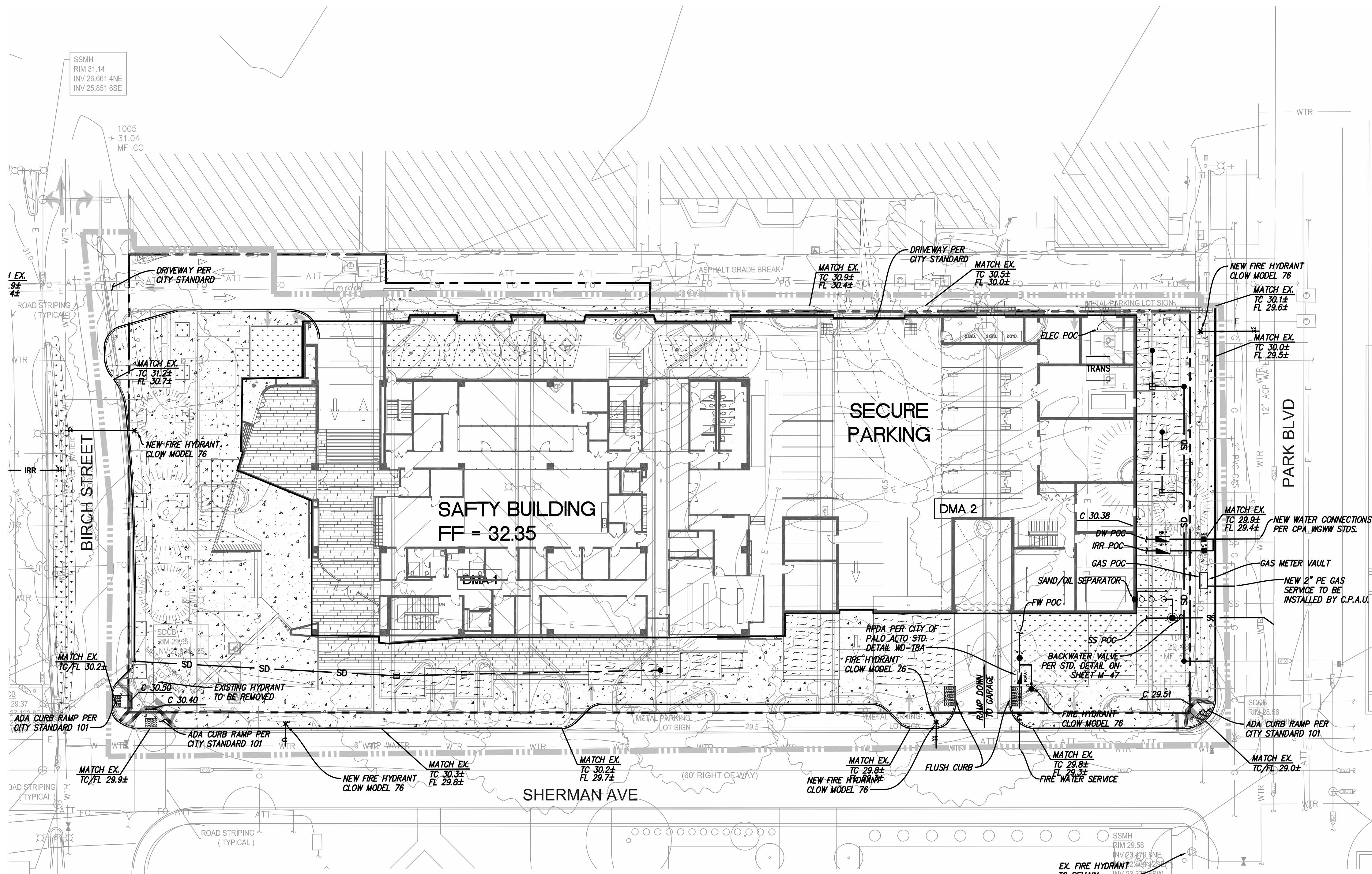
PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

PLAN RELATIONSHIPS

05

civil site plan



LEGEND

PROPERTY LINE	---	---
SAWCUT LINE	---	---
CONTOURS	194 195	---
AC PAVEMENT	---	---
CONCRETE SIDEWALK	---	---
PLANTING	---	---
BIO-TREATMENT AREA	---	---
DRAINAGE AREA BOUNDARY	---	---
		EXISTING
SANITARY SEWER MAIN	8" SS	SS
STORM DRAIN MAIN	12" SD	SD
PERFORATED PIPE	---	---
WATER MAIN	6" W	W
FIRE WATER	FW	FW
GAS LINE	G	G
CAP AND PLUG END	E	E
ELECTRIC AND SIGNAL DUCT BANK	C	C
COMMUNICATIONS LINE	---	---
WATER METER	WM	WM
WATER VALVE	WV	WV
SANITARY SEWER MANHOLE	SSMO	SSMO
SANITARY SEWER CLEANOUT	SSCO	SSCO
STORM SEWER MANHOLE	SMO	SMO
STORM SEWER AREA DRAIN	SDA	SDA
STORM SEWER INLET	CSI	CSI
STORM SEWER CLEANOUT	SSCO	SSCO
FIRE HYDRANT	---	---

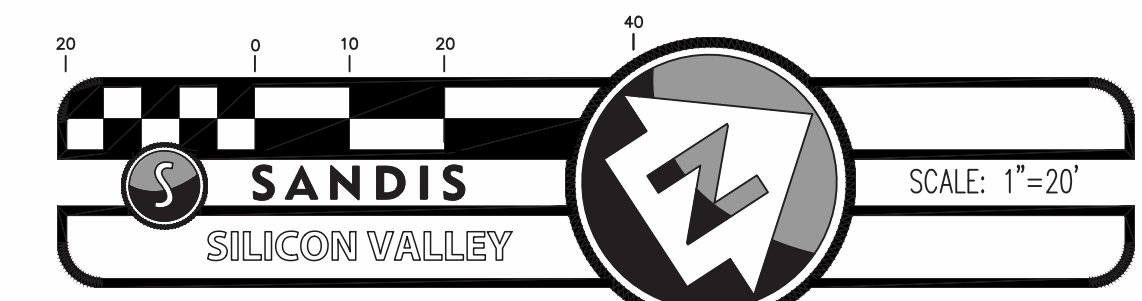
EARTHWORK QUANTITIES (SAFETY BUILDING)

CUT 45,900 CY
 FILL 0 CY
 BALANCE 45,900 CY IMPORT/EXPORT

THE EARTHWORK QUANTITIES SHOWN ARE PROVIDED FOR THE PURPOSE OF GRADING PERMIT APPROVAL ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CARRY OUT THE CUT/FILL IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES AS SHOWN ON THE PLANS REGARDLESS OF THE ESTIMATED EARTHWORK QUANTITIES AS INDICATED. SIGNIFICANT REVISIONS TO THE QUANTITIES NEED REVIEW BY THE CITY OF LOS ALTOS. FILL SHORTAGE IS ANTICIPATED TO COME FROM ON-SITE SPOILS ACQUIRED FROM UTILITY TRENCHES AND FOOTING SPOILS.

- NOTES:**
- PROVIDE POSITIVE SURFACE DRAINAGE AWAY FROM ALL STRUCTURES BY SLOPING ALL HARDSCAPE SURFACES AT 2% AND LANDSCAPE SURFACES AT 3% AWAY FROM STRUCTURES UNLESS OTHERWISE NOTED ON PLANS.
 - GRADING SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT.
 - COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION (WATER AND CONTROL WIRING) AND SITE LIGHTING PRIOR TO THE PLACEMENT OF ANY ASPHALT, BASECOURSE OR CONCRETE SURFACING. SEE LANDSCAPING AND SITE ELECTRICAL DRAWINGS.
 - GRADE GRADING TO BE WITHIN 0.1" AND FINISH GRADERS ARE TO BE WITHIN 0.05". HOWEVER CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE WATER TO POND OR NOT MEET REQUIREMENTS IN GRADING NOTE #1 OR THE ADA REQUIREMENTS UNLESS THEY DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT.
 - THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADES SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADES DO NOT CONFORM TO THESE DIMENSIONS, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE CLIENT/OWNER.
 - APPLICANT AND CONTRACTOR WILL BE RESPONSIBLE FOR RESURFACING PORTIONS OF SHERMAN, BIRCH AND/OR PARK BASED ON THE ROADWAY SURFACE CONDITION AFTER PROJECT COMPLETION AND LINES OF TROUGH WORK, AT A MINIMUM FURNISH RESURFACING OF THE FULL WIDTH OF THE STREET ALONG THE PROJECT FRONTAGE MAY BE REQUIRED.
 - AREAS LACKING TOPOGRAPHIC INFORMATION (ELEVATIONS) HAVE BEEN INTERPOLATED USING STANDARD ENGINEERING METHODS. CONTRACTOR SHALL VERIFY ALL ELEVATIONS AT COMPLETION PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT BACK ANY DISCREPANCIES TO THE CIVIL ENGINEER.
 - ADJUST ANY MANHOLE OR UTILITY STRUCTURES TO PROPOSED GRADE PRIOR TO INSTALLING FINAL LIFT OF AC OR POURING CONCRETE.
 - UTILITIES TO BE REMOVED SHALL BE DEMOLISHED TO THE PUBLIC MAIN PER CPA WGWV STDS.
 - PRIOR TO WORKING IN AN AREA THAT REQUIRES TREE PROTECTION, URBAN FORESTRY SHALL BE CONTACTED AT 650-446-5843.
 - ALL WORK ON CP&G GAS SYSTEM TO BE PERFORMED BY CP&G.

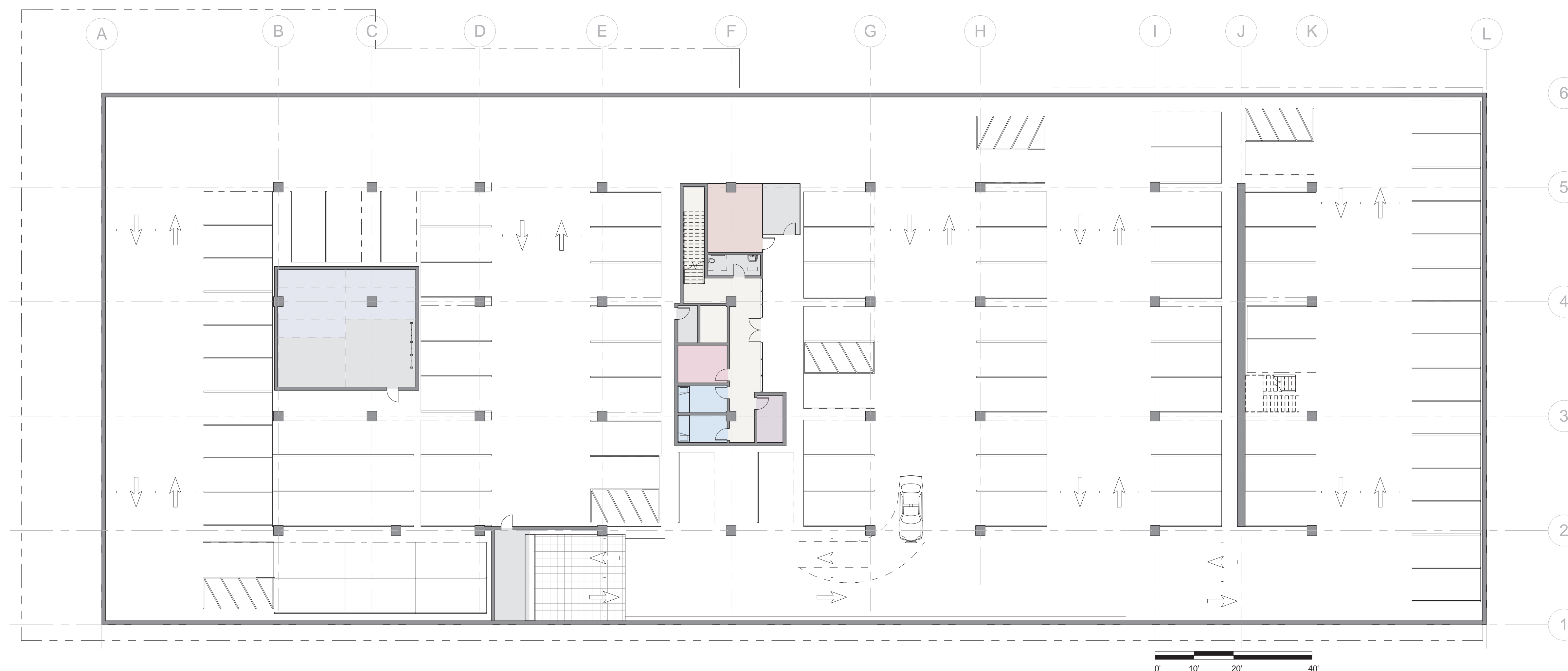
Drainage Area	TOTAL AREA		IMPERVIOUS AREA		PERVIOUS AREA		Percent Impervious	Treatment Area Required (sf)	Treatment Control	Treatment Provided (sf)
	sq. ft.	Ac.	sq. ft.	Ac.	sq. ft.	Ac.				
DMA-1	38,548	0.88	32,298	0.74	6,250	0.14	83.8%	1,292	BRA	1,788
DMA-2	16,617	0.38	15,437	0.35	1,180	0.03	92.9%	617	BRA	684
TOTAL	55,164	1.3	47,734	1.1	7,430	0.2	86.5%	1,909	BRA	2,472



PLAN RELATIONSHIPS

05

floor plans



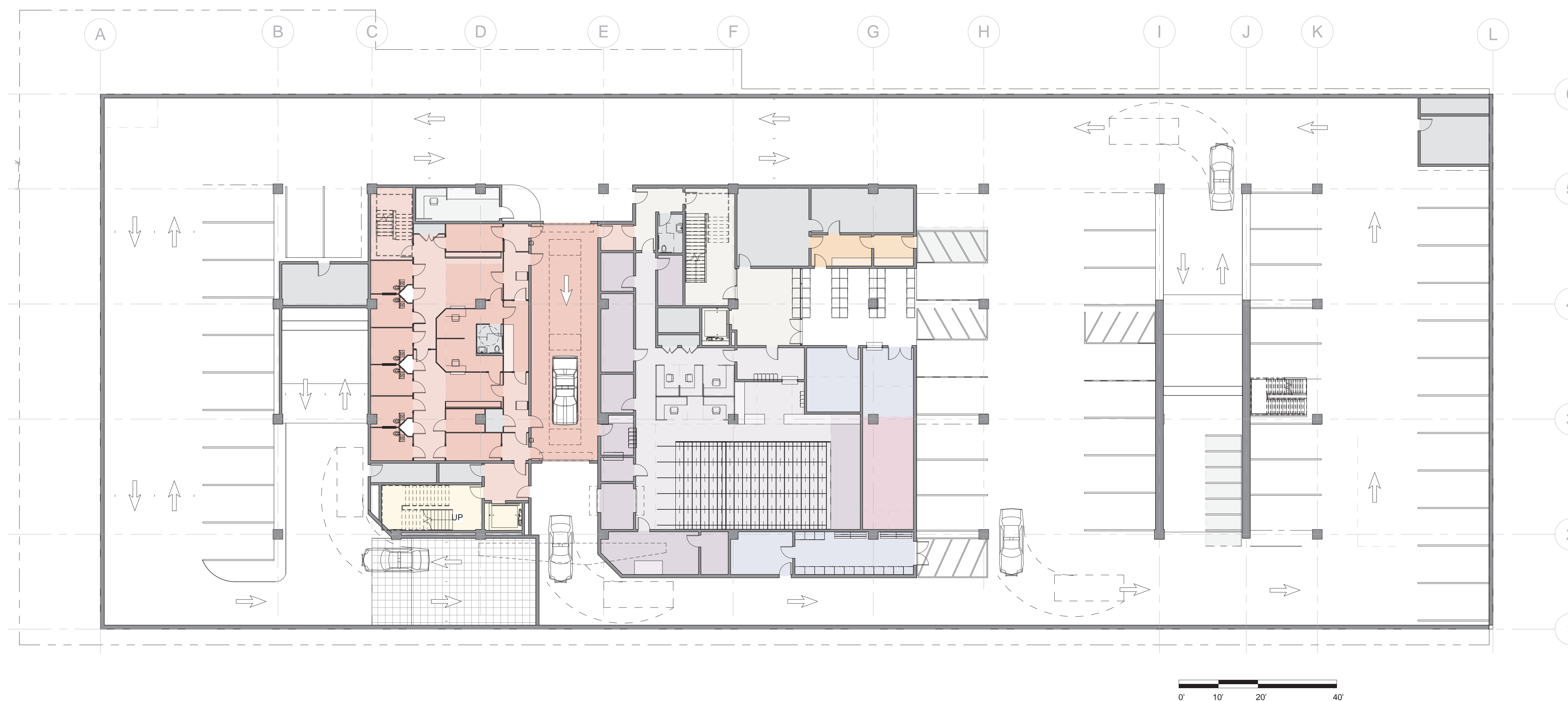
FLOOR PLAN - B2 FLOOR

ARB 05.03

PLAN RELATIONSHIPS

05

floor plans



FLOOR PLAN - B1 FLOOR

RossDrulisCusenbery ARCHITECTURE

ARB 05.04

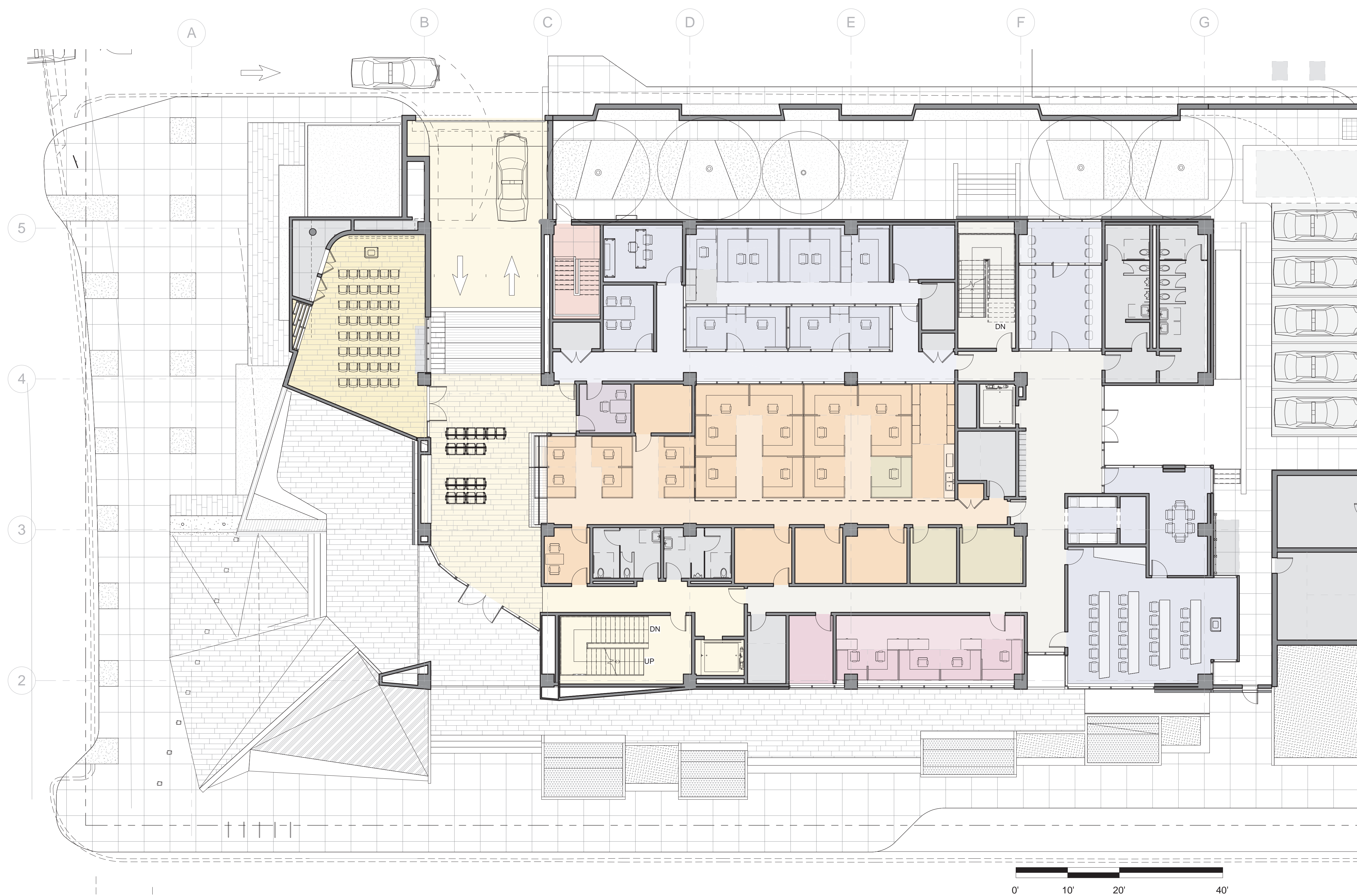
PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

PLAN RELATIONSHIPS

05

floor plans



FLOOR PLAN - 1ST FLOOR

RossDrulisCusenbery ARCHITECTURE

ARB 05.05

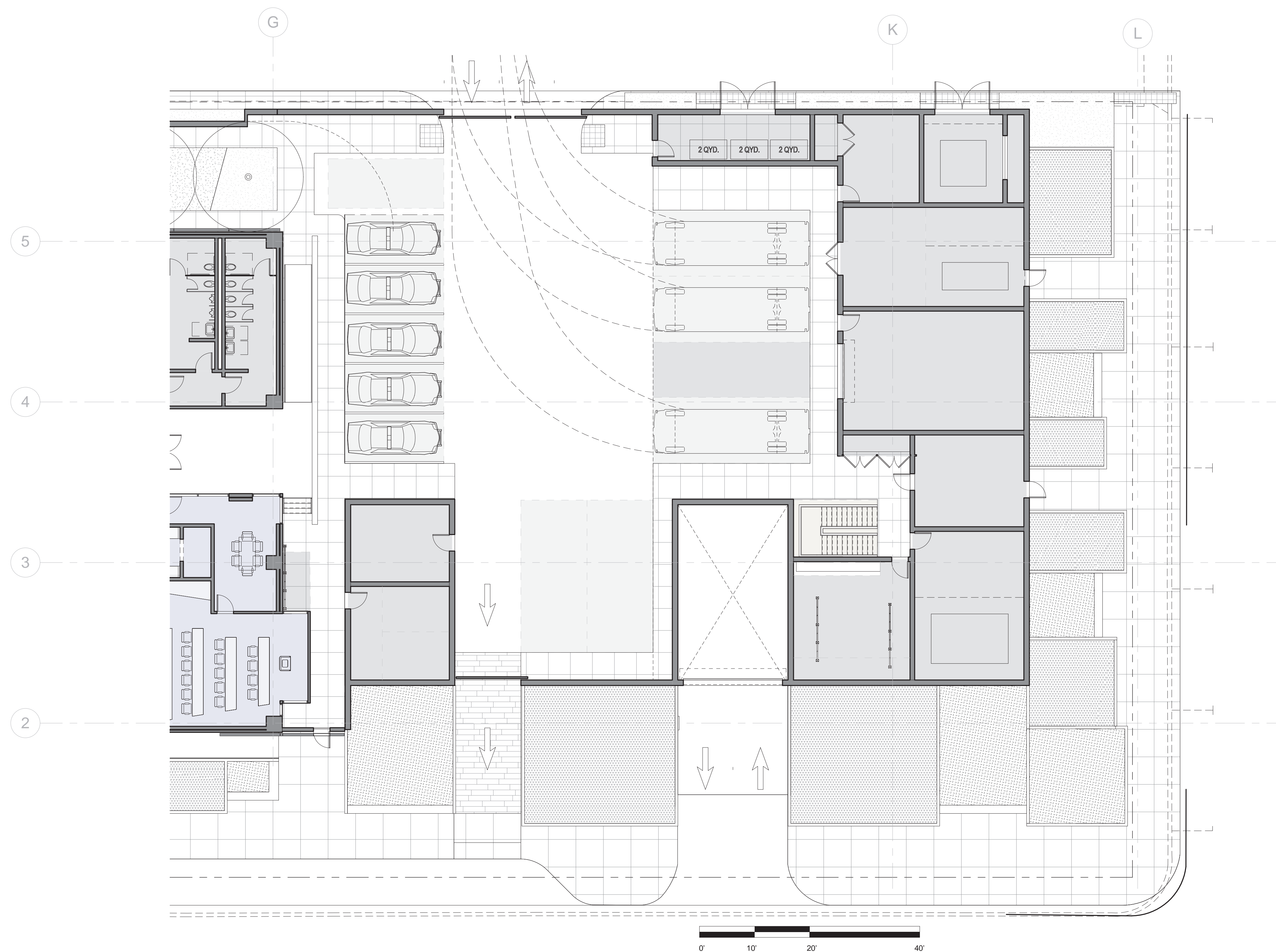
PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

PLAN RELATIONSHIPS

05

floor plans



FLOOR PLAN - 1ST FLOOR

ARB 05.06

PLAN RELATIONSHIPS

05

floor plans



FLOOR PLAN - 2ND FLOOR

RossDrulisCusenbery ARCHITECTURE

ARB 05.07

PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

PLAN RELATIONSHIPS

05

floor plans



FLOOR PLAN - 3RD FLOOR

RossDrulisCusenbery ARCHITECTURE

ARB 05.08

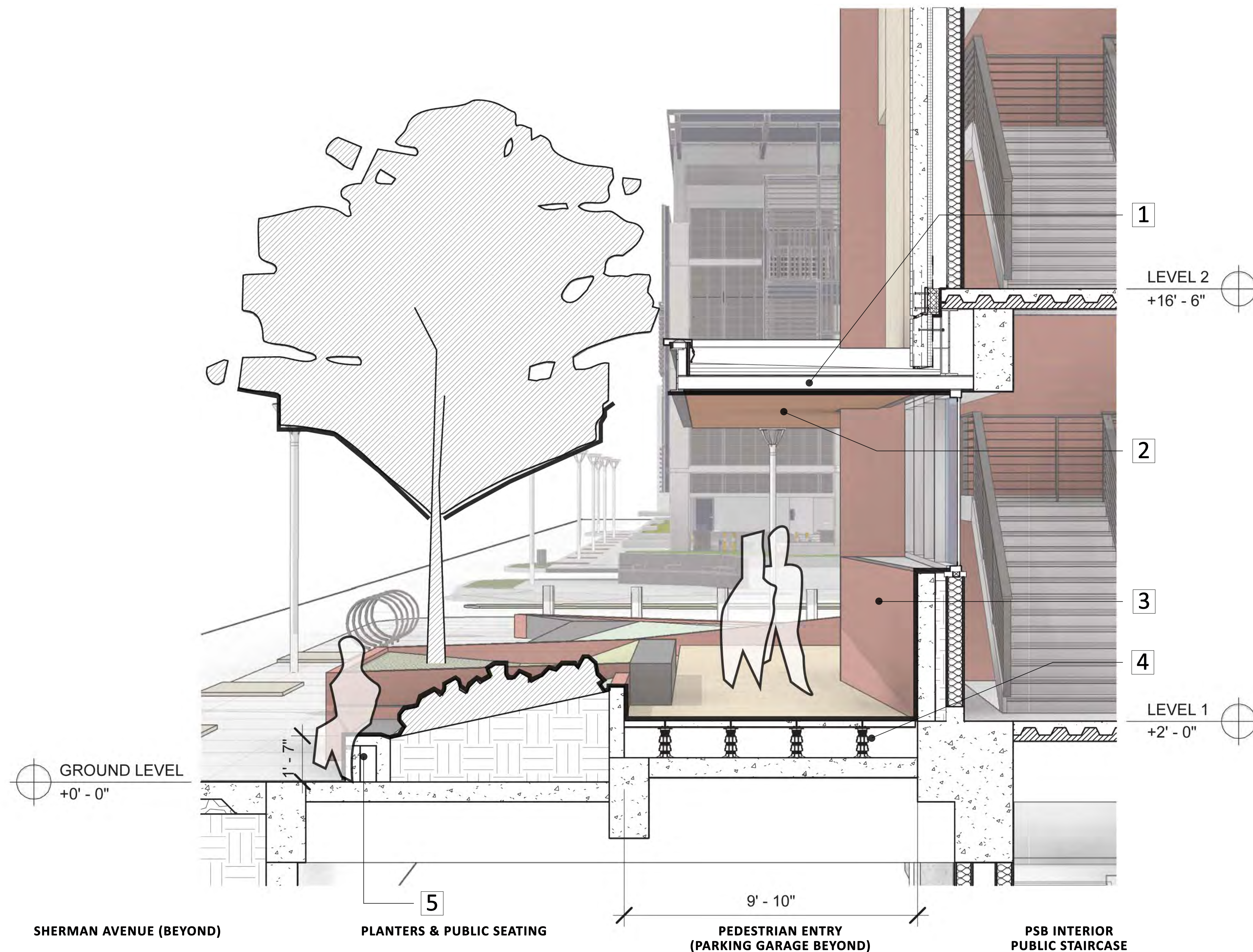
PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

CONCEPTUAL DETAILS

06

section/detail



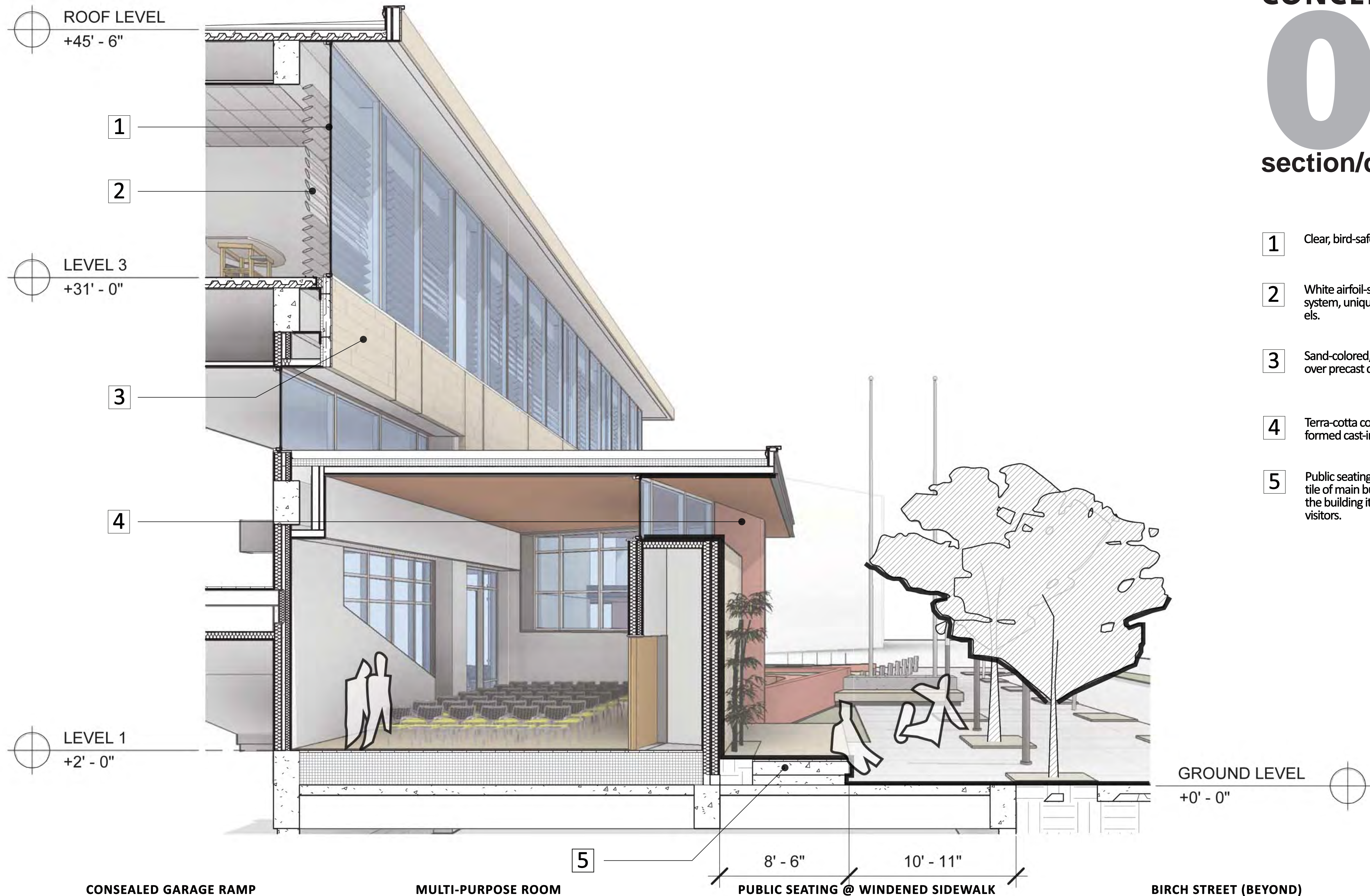
- 1** Continuous protective, pedestrian-scale “canopy” provided through mixture of landscaping and building elements.
- 2** Terra-cotta colored soffit to match color of concrete, contributes to immersive, warm pedestrian environment.
- 3** Terra-cotta colored tinted ready-mix, board formed cast-in-place concrete.
- 4** Paving and landscaping designed to conceal presence of parking basement, below.
- 5** Planters allow for public seating along length of Sherman Ave.

SECTION DETAILS

CONCEPTUAL DETAILS

06

section/detail



- 1 Clear, bird-safe dual glazing.
- 2 White airfoil-shaped interior metal sun shade system, uniquely adjustable in small-scale panels.
- 3 Sand-colored, textured porcelain tile veneer over precast concrete panels
- 4 Terra-cotta colored tinted ready-mix, board formed cast-in-place concrete
- 5 Public seating is same sand-colored porcelain tile of main building, providing impression that the building itself is gesturing out to support visitors.

SECTION DETAILS

TECHNICAL DETAILS

07

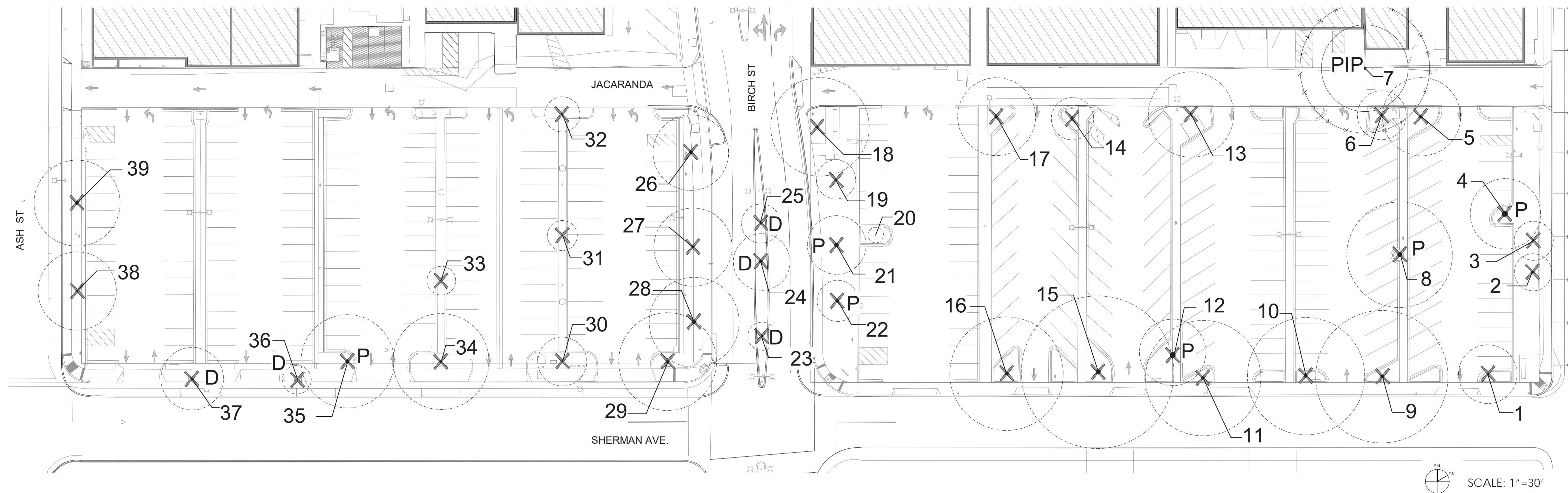
tree protection plan 250 and 350 Sherman

SHEET NOTES

1. TREE NUMBERS REFERENCE ABORIST REPORT BY DAVID L. BABBY (CONSULTING ABORIST) DATED 3-17-16

LEGEND	
SYMBOL	DESCRIPTION
●	APPROX. TRUNK DIAMETER (EX)
○	APPROX. TREE CANOPY (EX)
X	TREE TO REMOVE
-1	TREE NUMBER
●PIP	PROTECT IN PLACE
●P	PROTECTED TREE
●D	DESIGNATED STREET TREE
-----X	10 FT. OFFSET TREE PROTECTION FENCING

TOTAL TREES TO BE REMOVED	38
TOTAL PROTECTED TREES TO BE REMOVED	6
TOTAL DESIGNATED TREES TO BE REMOVED	5



TREE PROTECTION PLAN - PSB AND PARKING GARAGE

ARB 07.01

TECHNICAL DETAILS

07

city tree protection detail 250 Sherman

City of Palo Alto Tree Protection - It's Part of the Plan!

Make sure your crews and subs do the job right!

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. **An approved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree.**

For detailed information on Palo Alto's regulated trees and protection during development, review the **City Tree Technical Manual (TTM)** found at www.cityofpaloalto.org/trees/.

Arborist Firm Data Here City of Palo Alto Tree Technical Manual ADDENDUM 11
email: RCA/ISA Certified Arborist #WB-000 Contact Call #

Monthly Tree Activity Report- Construction Site			
Inspection Date:	Site address:	Contractor- Main Site Contact Information	#1 Job site superintendent Company Email Job site Office Call Mail:
	Palo Alto, CA		
Inspection #		Also present:	
Distribution:	1 City of Palo Alto 2 Others	Attn: Dave Docker	Dave Docker@cityofpaloalto.org 650-329-2440

Provide the requested minimum information with each report, customize as necessary. To be completed by project site arborist. Send monthly to city arborist at above address until project completion. Use additional sheets as needed.

- Assignment Activity (Demolition/grading/sewer/trenching/foundation/list relevant visits)
 - Pre-construction meeting requirement with sub-contractors
 - Inspect to verify that tree protection measures are in place
 - Determine if field adjustments, watering or plan revisions may be needed
- Field Observations (general site-wide and list by individual tree number)
 - Tree Protection Fences (TPF) are ...
 - Trenching has/will occur ...
- Action Items (list site-wide, by tree number and date to be satisfied) and Date Due
 - Tree Protection Fence (TPF) needs adjusting (tree #, x, y, z)
 - Root zone buffer material (wood chips) can be installed next
 - Schedule sewer trench, foundation dig work ...
- Photographs (use often)
- Tree Location Map (mandatory 8.5 x 11 sheet)
- Recommendations, notes or monitor items for project/staff/schedule
 -
- Past visits (list carry-over items satisfied/still outstanding)
 -

Respectfully submitted,
 Project site arborist
 Consultant contact information (include email, cell#, and mailing)
 Cc:
 Enter Date CPA Monthly Tree Activity Report: Type site address here Page #1 of 1

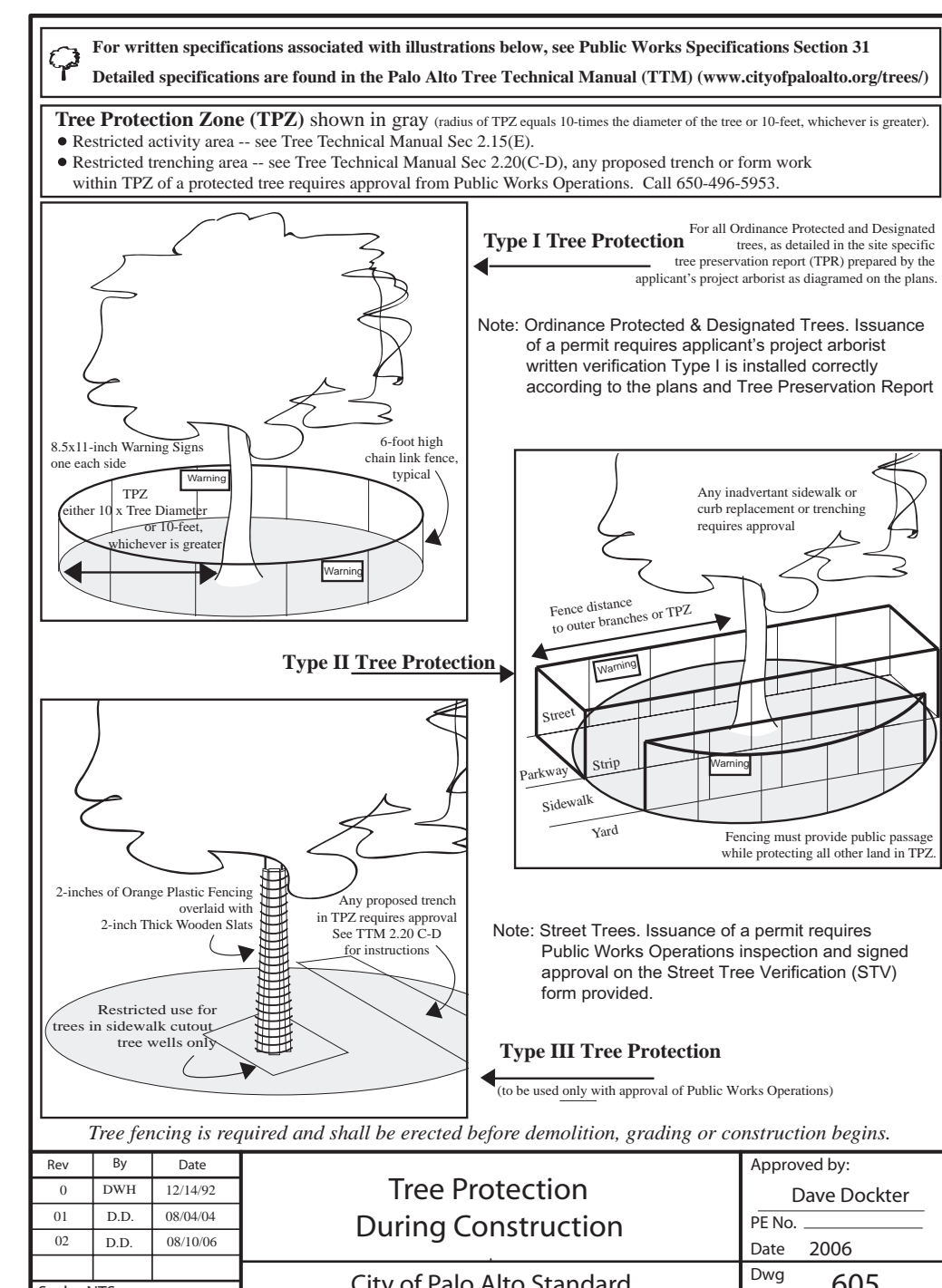
Table 2-2 Palo Alto Tree Technical Manual
CONTRACTOR & ARBORIST INSPECTION SCHEDULE

Reference the Palo Alto Tree Technical Manual is available at www.cityofpaloalto.org/entrances/

ALL CHECKED ITEMS APPLY TO THIS PROJECT:

- Inspection of Protective Tree Fencing For Public Trees, the Street Tree Verification Form shall be signed by the City Arborist. For Protected Trees, the project site arborist shall provide an initial Monthly Tree Activity Report form with a photograph verifying that he has conducted a field inspection of the trees and that the correct type of protective fencing is in place around the designated tree protection zone (TPZ) prior to issuance of a demolition, grading, or building permit. (See TTM, Verification of Tree Protection, Section 1.19)
- Pre-Construction Meeting Prior to commencement of construction, the applicant or contractor shall conduct a pre-construction meeting to discuss tree protection with the job site superintendent, grading operators, project site arborist, City Arborist, and, if a city maintained irrigation system is involved, the Parks Manager. (Contact 650-496-6962)
- Inspection of Rough Grading or Trenching Contractor shall ensure the project site arborist performs an inspection during the course of rough grading or trenching adjacent to or within the TPZ to ensure trees will not be injured by compaction, cut or fill, damage and trenching, and if required, inspect aeration systems, tree wells, drains and special paving. The contractor shall provide the project arborist at least 24 hours advance notice of such activity.
- Monthly Tree Activity Report Inspections The project site arborist shall perform a minimum monthly activity inspection to monitor and advise on conditions, tree health and retention or, immediately if there are any *red flags* to the approved plans or protection measures. The Tree Technical Manual Monthly Tree Activity Report format shall be used and sent to the Planning Dept. landscape review staff no later than 14 days after issuance of building permit date. Fax to (850) 329-2154. (See TTM, Monthly Tree Activity Inspection Report, Addendum 11 & section 1.17)
- Special activity within the Tree Protection Zone Work in the TPZ area (see also #7 below) requires the direct onsite supervision of the project arborist (see TTM, Trenching, Excavation & Equipment, Section 2.20 C)
- Landscape Architect Inspection For discretionary development projects, prior to temporary or final occupancy the applicant or contractor shall arrange for the Landscape Architect to perform an on site inspection of all plant stock, quality of the materials and planting (see TTM, Planting Quality, Section 5.20.1 A) and that the irrigation is functioning consistent with the approved construction plans. The Planning Dept. Landscape review staff shall be in receipt of written verification of Landscape Architect approval prior to scheduling the final inspection, unless otherwise approved.
- List Other (please describe as called out in the site Tree Preservation Report, Sheet T-1, T-2, etc.)
 -

Approved by: Dave Docker
 PE No. _____
 Date: 2006
 Dwg No. 605



TREE DISCLOSURE STATEMENT CITY OF PALO ALTO
 Planning Division, 250 Hamilton Avenue
 Palo Alto, CA 94301
 (650) 329-2441
<http://www.cityofpaloalto.org>

Palo Alto Municipal Code, Chapter 8.10.040, requires disclosure and protection of certain trees located on private and public property, and that they be shown on submitted and approved site plans. A completed tree disclosure statement must accompany all permit applications that include exterior work, all demolition or grading permit applications, or other development activity.

PROPERTY ADDRESS: _____

Are there Regulated trees on or adjacent to the property? YES NO (If no, proceed to Section 4)

[Sections 1-4 MUST be completed by the applicant. Please circle and/or check where applicable.]

1. Where are the trees? Check those that apply. Plans must be submitted showing all trees over 4" diameter

On the property
 On adjacent property overhanging the project site
 In the City planter strip or right-of-way easement within 30' of property line (Street Trees)*

*Street trees require special protection by a fenced enclosure. Prior to receiving any permit, you must provide an authorized Street Tree Protection Verification form. Contact Public Works Operations at (650) 496-5953 for inspection of type I, II or III fencing (see attached Detail #605) required for all street trees.

2. Are there any Protected or Designated Trees? YES (Check where applicable) NO

Protected Tree (t)
 Designated Tree (s)
 On or overhanging the property

3. Is there activity or grading within the drip-line? (radius 10 times the trunk diameter) of these trees? YES NO
 If Yes, a Tree Preservation Report must be prepared by an ISA certified arborist and submitted for staff review (see TTM, Section 6.25). Attach this report to Sheet T-1, Tree Protection, its Part of the Plan, per Site Plan Requirements.

4. Are the Site Plan Requirements** completed? YES NO

**Plans. Protection of Regulated trees during development require the following: (1) Plans must show the measured trunk diameter and canopy drip-line; (2) Plans must denote, as a bold dashed line, a fenced enclosure area out to the drip-line, per Sheet T-1 and Detail #605 - <http://www.cityofpaloalto.org/trees/forms.htm>. (See also TTM, Section 2.15 for area to be fenced)

I, the undersigned, agree to the conditions of this disclosure. I understand that knowingly or negligently providing false or misleading information in response to this disclosure requirement constitutes a violation of the Palo Alto Municipal Code Section 8.10.040, which can lead to criminal and/or civil action.

Signature: _____ Print: _____ Date: _____
 (Prop. Owner or Agent)

FOR STAFF USE:

Protective Fencing Sections 5-6 must be completed by staff for the issuance of any development permit (demolition, grading or building permit).

5. Protected Trees. The specified tree fencing is in place. A written statement is attached verifying that protective fencing is correctly in place around protected and/or designated trees. YES NO
 (N/A if there are no protected trees, check here)

6. Street Trees. A signed Public Works Street Tree Protection Verification form is attached. YES NO
 (N/A if there are no street trees, check here)

Regulated Trees - a) Street trees - trees on public property; b) Protected trees - Coast Live Oaks or Valley Oaks which are 11.5" in diameter or larger; Coast Redwoods which are 18" in diameter or larger, when measured 4" above natural grade; and Heritage trees are trees designated by City Council; and c) Designated Trees - commercial or non-residential property trees, which are part of an approved landscape plan.
 Palo Alto Tree Technical Manual (TTM) contains instructions for all requirements on this form, available at www.cityofpaloalto.org/trees/technical-manual.html

APPENDIX J
**PALO ALTO
 STREET TREE PROTECTION INSTRUCTIONS
 -SECTION 31-**

31-1 General

- Tree protection has three primary functions: 1) to keep the foliage canopy and branching structure clear from contact by equipment, materials and activities; 2) to preserve roots and soil conditions in an intact and non-compacted state and 3) to identify the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved.
- The Tree Protection Zone (TPZ) is a restricted area around the base of the tree with a radius of ten-times the diameter of the tree's trunk or ten feet; whichever is greater, enclosed by fencing.

31-2 Reference Documents

- Detail #65 - Illustration of situations described below.
- Tree Technical Manual (TTM) Forms (<http://www.cityofpaloalto.org/trees/>)
 - Trenching Restriction Zones (TTM, Section 2.20(C))
 - Arborist Reporting Form (TTM, Section 3.30)
 - Site Plan Requirements (TTM, Section 6.35)
- The Disclosure Statement (TTM, Appendix J)
- Street Tree Verification (STV) Form (<http://www.cityofpaloalto.org/trees/forms>)

31-3 Execution

- Type I Tree Protection:** The fence shall enclose the entire TPZ of the tree(s) to be protected throughout the life of the construction project. In some parking areas, if fencing is located on paving or concrete that will not be demolished, then the posts may be supported by an appropriate grade level concrete base, if approved by Public Works Operations.
- Type II Tree Protection:** For trees situated within a planting strip, only the planting strip and yard side of the TPZ shall be enclosed with the required chain link protective fencing in order to keep the sidewalk and street open for public use.
- Type III Tree Protection:** To be used only with approval of Public Works Operations. Trees situated in a tree well or sidewalk planter pit, shall be wrapped with 2-inches of orange plastic fencing from the ground to the first branch and overlaid with 2-inch thick wood slats bound securely (slats shall not be allowed to dig into the bark). During installation of the plastic fencing, caution shall be used to avoid damaging any branches. Major limbs may also require plastic fencing as directed by the City Arborist.
- Sign, type and area to be fenced.** All trees to be preserved shall be protected with six (6) foot high chain link fences. Fences are to be mounted on two-inch diameter galvanized iron posts, driven into the ground to a depth of at least 2-feet at no more than 10-foot spacing. Fencing shall extend to the outer branching, unless specifically approved on the STV Form.
- Warning signs.** A warning sign shall be weather proof and prominently displayed on each fence at 20-foot intervals. The sign shall be minimum 8.5-inches x 11-inches and clearly state in half inch tall letters: "WARNING - Tree Protection Zone - This fence shall not be removed and is subject to a fine according to PAMC Section 8.10.110"
- Duration.** Tree fencing shall be erected before demolition, grading or construction begins and remain in place until final inspection of the project, except for work specifically allowed in the TPZ. Work or soil disturbance in the TPZ requires approval by the project arborist or City Arborist (in the case of work around Street Trees). Excavations within the public right of way require a Street Work Permit from Public Works.

During construction

- All neighbor trees that overhang the project site shall be protected from impact of any kind.
- The applicant shall be responsible for the repair or replacement plus penalty of any publicly owned trees that are damaged during the course of construction, pursuant to Section 8.04.070 of the Palo Alto Municipal Code.
 - No storage of material, topical, vehicles or equipment shall be permitted within the TPZ.
 - The ground under and around the tree canopy area shall not be altered.
 - Trees to be retained shall be irrigated, aerated and maintained as necessary to ensure survival.

END OF SECTION
 City of Palo Alto 2004 Standard Drawings and Specifications
 Street Tree Verification of Protection, (PWE, Section 31)
 Revised 08/06

**City of Palo Alto
 Tree Department**
 Public Works Operations
 PO Box 10250 Palo Alto, CA 94303
 650-496-5953 FAX: 650-852-9259
 treearborist@cityofpaloalto.org

**Verification of
 Street Tree Protection**

Applicant Instructions: Complete upper portion of this form. Mail or FAX this form along with signed Tree Disclosure Statement to Public Works Dept., Public Works Tree Staff will inspect and notify applicant.

APPLICATION DATE: _____

ADDRESS/LOCATION OF STREET TREES TO BE PROTECTED: _____

APPLICANT'S NAME: _____

APPLICANT'S ADDRESS: _____

APPLICANT'S TELEPHONE & FAX NUMBERS: _____

This section to be filled out by City Tree Staff

1. The Street Trees at the above address(es) are adequately protected. The type of protection used is: _____
 * If NO, go #2 below

Inspected by: _____
 Date of inspection: _____

2. The Street Trees at the above address are NOT adequately protected. The following modifications are required: _____
 Indicate how the required modifications were communicated to the applicant.

Subsequent inspection
 Street trees at above address were found to be adequately protected? YES NO
 * If NO, indicate in "Notes" below the disposition of case.

Inspected by: _____
 Date of inspection: _____

Notes: List City street trees by species, size, condition and type of tree protection installed. Also note if pictures were taken. Use back of sheet if necessary.

Return approved sheet to Applicant for demolition or building permit issuance. 61706

City of Palo Alto
 250 Hamilton Avenue, Palo Alto, CA 94301

Search: _____ Advanced
 Home > Planning & Community Environment
 Browse By Topic: _____

Tree Technical Manual
 June, 2001 First Edition

View by section:

- Table of Contents (PDF, 67KB)
- Intent and Purpose (PDF, 1.05MB)
- Introduction - Use of Manual (PDF, 1.05MB)
- Section 1.0 - Definitions (PDF, 60KB)
- Section 2.0 - Protection of Trees During Construction (PDF, 259KB)
- Section 3.0 - Removal, Replacement & Planting of Trees (PDF, 117KB)
- Section 4.0 - Hazardous Trees (PDF, 105KB)
- Section 5.0 - Tree Maintenance Guidelines (PDF, 110KB)
- Section 6.0 - Tree Reports (PDF, 64KB)

View ALL sections:
 • Tree Technical Manual - Full (PDF, 1.84MB)

APPENDICES
 A. Palo Alto Municipal Code Chapter 8.10. Tree Preservation & Management Regulations
 B. Tree City, USA
 C. ISA Hazard Evaluation Form
 D. List of Inherent Failure Patterns for Selected Species (Reference source)
 E. ISA Tree Pruning Guidelines (PDF, 1.40MB)
 F. Tree Care Safety Standards, ANSI Z133.1-1994 (Reference source)
 G. Pruning Performance Standards, ANSI A300-1995 (Reference source) H: Tree Planting Details, Diagram 504 & 505
 I. Tree Disclosure Statement
 J. Palo Alto Standard Tree Protection Instructions

---WARNING---
Tree Protection Zone

This fencing shall not be removed without City Arborist approval (650-496-5953)

Removal without permission is subject to a \$500 fine per day*
 *Palo Alto Municipal Code Section 8.10.110

City of Palo Alto Tree Protection Instructions are located at <http://www.city.palo-alto.ca.us/trees/technical-manual.html>

SPECIAL INSPECTIONS TREE PROTECTION INSPECTIONS MANDATORY
 PAMC 8.10 PROTECTED TREES. CONTRACTOR SHALL ENSURE PROJECT SITE ARBORIST IS PERFORMING REQUIRED TREE INSPECTION AND SITE MONITORING. PROVIDE WRITTEN MONTHLY TREE ACTIVITY REPORTS TO THE PLANNING DEPARTMENT LANDSCAPE REVIEW STAFF BEGINNING 14 DAYS AFTER BUILDING PERMIT ISSUANCE.

BUILDING PERMIT DATE: _____
 DATE OF 1ST TREE ACTIVITY REPORT: _____
 CITY STAFF: _____

REPORTING DETAILS OF THE MONTHLY TREE ACTIVITY REPORT SHALL CONFORM TO SHEET T-1 FORMAT. VERIFY THAT ALL TREE PROTECTION MEASURES ARE IMPLEMENTED AND WILL INCLUDE ALL CONTRACTOR ACTIVITY, SCHEDULED OR UNSCHEDULED, WITHIN A TREE PROTECTION ROOT ZONE. NON-COMPLIANCE IS SUBJECT TO VIOLATION OF PAMC 8.10.060. REFERENCE: PALO ALTO TREE TECHNICAL MANUAL, SECTION 2.00 AND ADDENDUM 11.

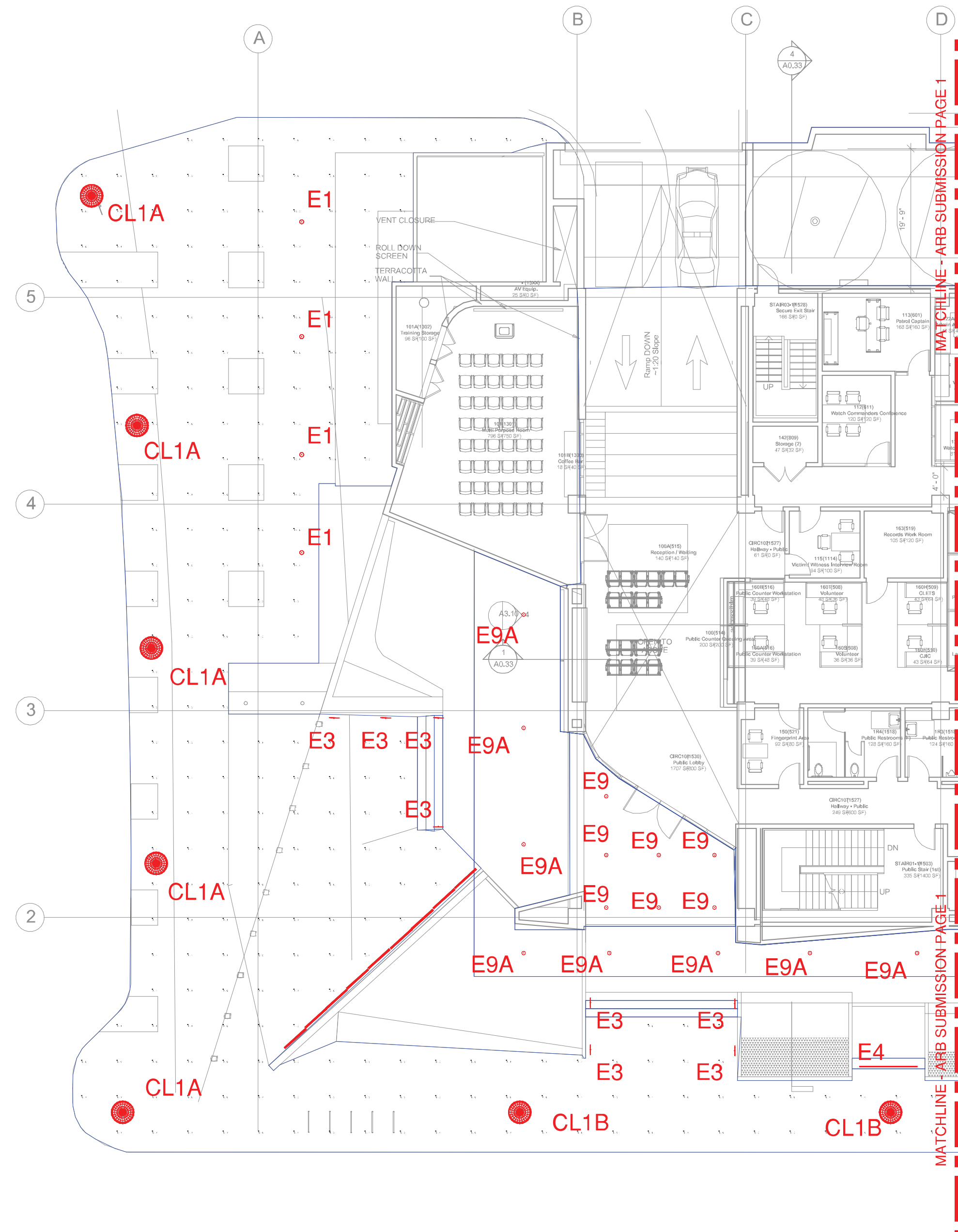
Apply Tree Protection Report on sheet(s) T-2

Use additional "T" sheets as needed

TECHNICAL DETAILS

07

site lighting plan



CALCULATION SUMMARY

Label	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min	Target Light Level
Courtyard	Illuminance	Fc	1.29	1.04	3.23	32.75	0.4 Fc Avg. Per IES	Plazas and Town Sqrs. 1 Fc Min. at Egress Per CBC
East Stair 1 Top 1 1	Illuminance	Fc	11.9	15.3	8.1	1.47	1.89	1 Fc Min. Per CBC
East Stair 2 Side 5 1	Illuminance	Fc	14.1	27.3	6.6	2.14	4.14	1 Fc Min. Per CBC
East Stair 3 Top 1 1	Illuminance	Fc	17.0	28.9	6.6	2.59	4.38	1 Fc Min. Per CBC
East Stair 4 Side 4 1	Illuminance	Fc	19.0	44.3	3.9	4.88	11.38	1 Fc Min. Per CBC
East Stair 5 Top 1 1	Illuminance	Fc	6.26	22.3	2.9	2.16	7.69	1 Fc Min. Per CBC
East Stair 6 Side 4 1	Illuminance	Fc	1.62	5.7	0.2	8.10	28.50	1 Fc Min. Per CBC
East Stair 7 Top 1 1	Illuminance	Fc	0.88	2.2	0.1	8.80	22.00	1 Fc Min. Per CBC
East Stair Side 5 1	Illuminance	Fc	7.64	14.2	2.8	2.73	5.07	1 Fc Min. Per CBC
Garage East Pathway Top 1	Illuminance	Fc	3.13	20.9	0.6	5.22	34.83	0.5-1Fc Avg. Per BOD Light Level Legend
Garage Northeast Elev Thraid 1	Illuminance	Fc	11.9	13.3	10.5	1.13	1.27	10 Fc Min. Per CBC
Garage West and South Pathway Top 1	Illuminance	Fc	2.00	6.3	1.0	2.00	6.30	0.5-1Fc Avg. Per BOD Light Level Legend
Garage West Elev Thraid	Illuminance	Fc	11.6	12.5	10.6	1.10	1.18	10 Fc Min. Per CBC
Northeast Arcade Ground Top	Illuminance	Fc	5.62	19.1	1.0	5.62	19.10	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
PAPSS East and Southeast Pathway Top	Illuminance	Fc	2.81	10.6	0.3	9.37	35.33	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSS Entrance Top 1	Illuminance	Fc	6.04	6.9	14.5	1.34	1.53	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
PAPSS Garage Entry Top	Illuminance	Fc	2.60	4.1	1.0	2.60	4.10	1 Fc Min Per IES RP-20-14 Parking Garage Drive Aisle
PAPSS North Pathway Top	Illuminance	Fc	3.76	6.2	1.2	3.13	5.17	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSS West and South Walkway Top 1	Illuminance	Fc	2.01	18.5	0.6	3.35	30.83	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSS West Plaza Top	Illuminance	Fc	0.98	1.1	0.9	1.09	1.22	0.4 Fc Avg Per IES Plazas & Town Squares Med. Activity LZ3. 1Fc Min Egress Path
PAPSS West Plaza Top 1	Illuminance	Fc	2.49	7.8	0.8	3.11	9.75	0.4 Fc Avg. Per IES Plazas & Town Sqrs. 1 Fc Min. at Egress Per CBC
Ramp	Illuminance	Fc	14.9	69.9	1.0	14.97	69.90	1 Fc Min. Per CBC
Security Vehicle Parking Lot	Illuminance	Fc	7.45	19.0	2.1	3.55	9.05	3 Fc Minimum, 8 Fc Avg., 3:1 Uniformity Per IES G-1-16
West Arcade Ground Top 1	Illuminance	Fc	4.97	12.6	1.0	4.97	12.60	1Fc Minimum Per CBC Egress
West Arcade Ground Top 1	Illuminance	Fc	4.58	12.6	0.0	N.A.	N.A.	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
West Stairs 1 Side 4	Illuminance	Fc	12.0	14.4	10.0	1.21	1.44	1 Fc Min. Per CBC
West Stairs 2 Top 1	Illuminance	Fc	14.9	16.3	13.3	1.12	1.23	1 Fc Min. Per CBC
West Stairs 3 Side 4 1	Illuminance	Fc	14.6	31.0	1.5	9.79	20.67	1 Fc Min. Per CBC

LUMINAIRE SCHEDULE

Symbol	Qty	Label	Description	Lum. Watts	Lum. Lumens	LLF
●	3	CL1	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED Tilt Area Light - MSA-E01-LED-E1-T3-8030	24.7	2098	0.87
●	25	CL1A	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED Tilt Area Light - MSA-E02-LED-E1-T3-8030	52.1	4152	0.87
●	3	CL1B	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED Tilt Area Light - MSA-E04-LED-E1-T4-8030	97.2	8178	0.87
○	9	E1	BEGA 88 064 - 6in. Round 31in. Tall Pole Mounted Cylindrical LED Area Light	36	3383	0.63
○	11	E10	Lumenpulse LumenFacade - 2.5in. Aperture Surface Mounted Linear LED 30x60 Optic Adjustable Facade Light - LOG HO-120-48-35K 12XP2-30x60-SI-NO	60.39	3665	0.63
○	27	E2	BEGA 22 360 - 12.5in. X 4.5in. Wall Mtd. Rectangular LED Area Light - 22360	20.5	1024	0.63
○	20	E3	BEGA 22 040 - 20.5in. X 5in. Wall Recessed Rectangular LED Louvered Spotlight - 22 040	19.2	124	0.63
○	92	E4	Luminii Kendo S Wet - 0.7in. Underbench Mid. Linear LED Tape Light in Aluminum Extrusion - KSW-48-30K-SO-C-X-WH-XX	12.9	826	0.63
○	24	E5	Klik Systems LEDPod - 0.25in. Handrail Recessed Round LED Stair Light - PCLens-WhiteAsymRef-2W-LED-500mA-LEDPOD-3000K-direct	2	107	0.63
○	8	E6	ERCO Lightscan - 12in. X 12in. Column Mounted Square LED Asymmetric Ceiling Uplight - 34447023_V03	60	2496	0.81
○	25	E7	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Wallwasher - 8445023_V04	10	610	0.81
○	48	E8	A Light D3 Series - 3.5in. Aperture Surface Mid. Linear LED Downlight (MOD 50% LIGHT OUTPUT, 3000K) - D34LH40UHE	38.9	3316	0.31
○	6	E9	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84425023_V04	10	735	0.81
○	6	E9A	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84427023_V04	19	1467	0.81
○	1	E9B	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84429023_V04	30	2225	0.81
○	2	E9C	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84431023_V04	36	2967	0.81



CL1/CL1A/CL1B - Cooper Invue Mesa
E1 - BEGA 88 064
E2 - BEGA 22 360
E3 - BEGA 22 040
E4 - Luminii Kendo S Wet



E9A - ERCO Compact Downlight

NOTES
 1. ILLUMINANCE CALCULATIONS ARE BASED ON PUBLISHED CALCULATION METHODS AND ARE FOR REFERENCE ONLY. FIELD MEASURED RESULTS MAY DIFFER FROM CALCULATED RESULTS AND ARE DEPENDANT ON A VARIETY OF FACTORS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: MANUFACTURER'S PHOTOMETRY DATA, LINE VOLTAGE, LUMINAIRE PERFORMANCE, TEMPERATURE, AND ACTUAL CONDITION OF FINISHES AND ENVIRONMENT.
 2. REFLECTANCE ASSUMPTIONS: WALL/BUILDING REFLECTANCE - 35% GROUND REFLECTANCE - 20%
 3. CL1 SERIES LUMINAIRES MOUNTED 14'-0" AFG. E2 SERIES LUMINAIRES MOUNTED 8'-0" AFG. E3 LUMINAIRES MOUNTED 1'-2" AFG. E4 LUMINAIRES MOUNTED 1'-5" AFG. E4 LUMINAIRES MOUNTED 3'-0" AFG AT RAMP. E5 LUMINAIRES MOUNTED 3'-0" ABOVE STAIR TREAD. E9 LUMINAIRES MOUNTED 8'-0" AFG.
 4. * LLF CALCULATED BASED ON LINEAR INTERPOLATION TO 50,000 HOURS FROM MANUFACTURERS REPORTED LIFE.

LUMINAIRE IMAGES

PHOTOMETRIC STUDY - PALO ALTO PUBLIC SAFETY BUILDING SOUTH

SCALE:

1"=20'-0"

	Project	Title	Project No.	Scale	Date	Sheet
	PALO ALTO PUBLIC SAFETY BUILDING	LSK001 R1 - ARB SUBMISSION	B17.07295.000	AS NOTED	07.18.2018	001

SITE LIGHTING PLAN

RossDrulisCusenbery ARCHITECTURE

ARB 07.03

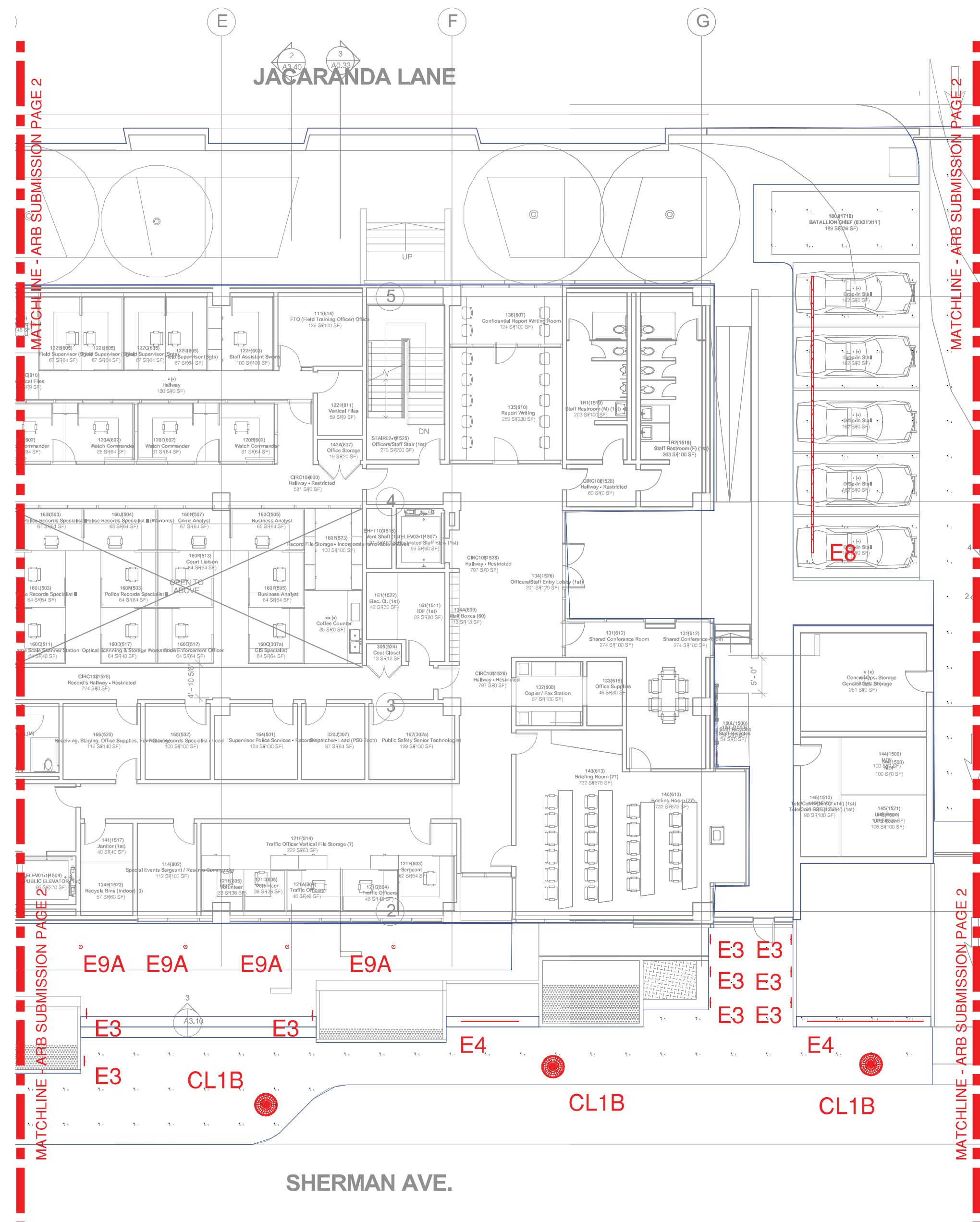
PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

TECHNICAL DETAILS

07

site lighting plan

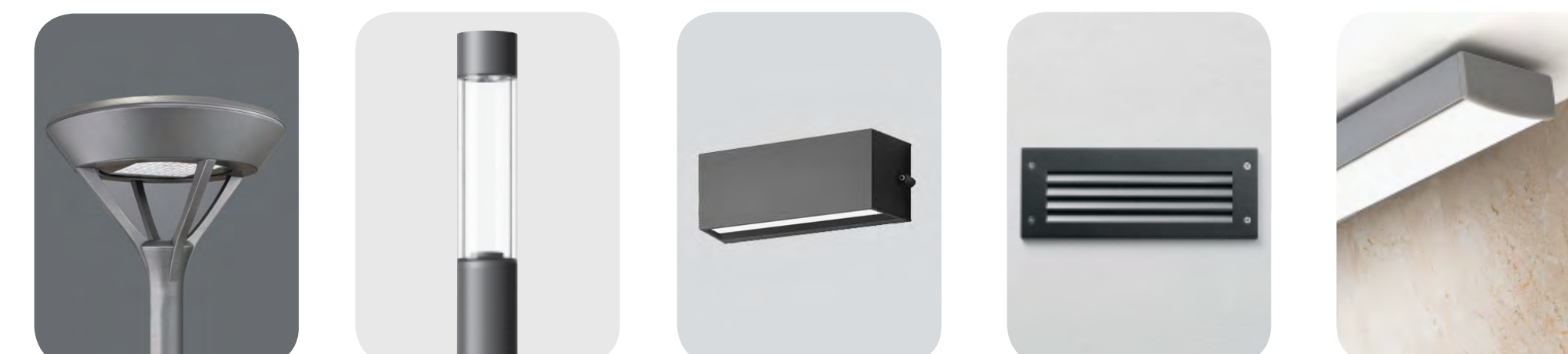


CALCULATION SUMMARY

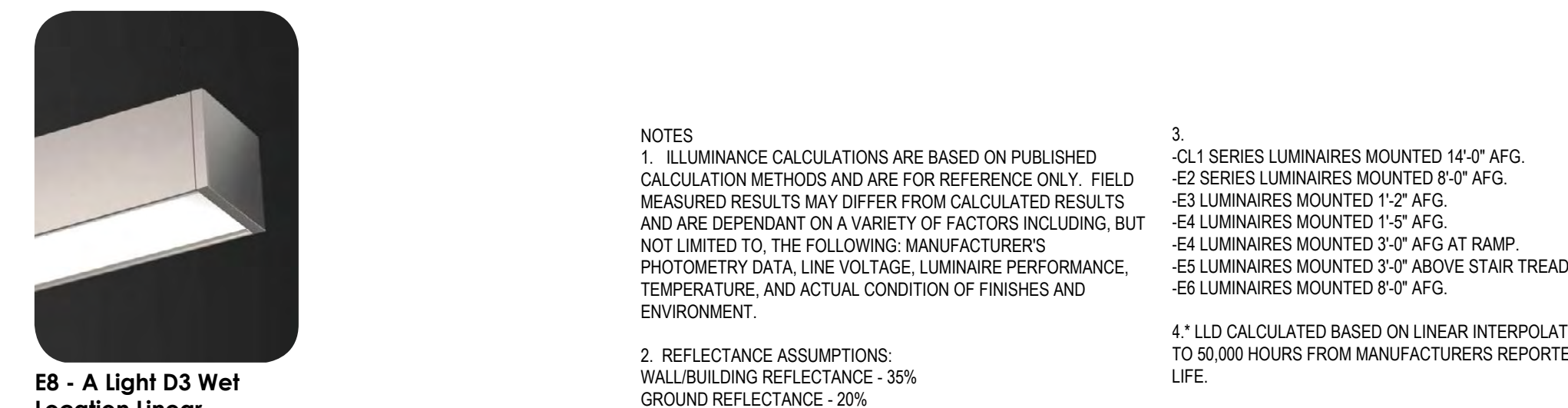
Label	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min	Target Light Level
Courtyard	Illuminance	Fc	1.29	13.1	0.4	3.25	32.75	0.4 Fc Avg. Per IES Plazas and Town Sqrs. 1 Fc Min. at Egress Per CBC
East Stair 1 Top 1 1	Illuminance	Fc	11.9	15.3	8.1	1.47	1.89	1 Fc Min. Per CBC
East Stair 2 Side 5 1	Illuminance	Fc	14.1	27.3	6.6	2.14	4.14	1 Fc Min. Per CBC
East Stair 3 Top 1 1	Illuminance	Fc	17.0	28.9	6.6	2.59	4.38	1 Fc Min. Per CBC
East Stair 4 Side 4 1	Illuminance	Fc	19.0	44.3	3.9	4.88	11.36	1 Fc Min. Per CBC
East Stair 5 Top 1 1	Illuminance	Fc	6.29	22.3	2.9	2.16	7.69	1 Fc Min. Per CBC
East Stair 6 Side 4 1	Illuminance	Fc	1.62	5.7	0.2	8.10	28.50	1 Fc Min. Per CBC
East Stair 7 Top 1 1	Illuminance	Fc	0.88	2.2	0.1	8.80	22.00	1 Fc Min. Per CBC
East Stair Side 5 1	Illuminance	Fc	7.64	14.2	2.8	2.73	5.07	1 Fc Min. Per CBC
Garage East Pathway Top 1	Illuminance	Fc	3.13	20.9	0.6	5.22	34.83	0.5-1Fc Avg. Per BOD Light Level Legend
Garage Northeast Elev Thrahd 1	Illuminance	Fc	11.9	13.3	10.5	1.13	1.27	10 Fc Min. Per CBC
Garage West and South Pathway Top 1	Illuminance	Fc	2.00	6.3	1.0	2.00	6.30	0.5-1Fc Avg. Per BOD Light Level Legend
Garage West Elev Thrahd	Illuminance	Fc	11.6	12.5	10.6	1.10	1.18	10 Fc Min. Per CBC
Northeast Arcade Ground Top	Illuminance	Fc	5.62	19.1	1.0	5.62	19.10	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
PAPSS East and Southeast Pathway Top	Illuminance	Fc	2.81	10.6	0.3	9.37	35.33	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSS Entrance Top 1	Illuminance	Fc	6.04	6.9	14.5	1.34	1.53	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
PAPSS Garage Entry Top	Illuminance	Fc	2.60	4.1	1.0	2.60	4.10	1 Fc Min Per IES RP-20-14 Parking Garage Drive Aisle
PAPSS North Pathway Top	Illuminance	Fc	3.76	6.2	1.2	3.13	5.17	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSS West and South Walkway Top 1	Illuminance	Fc	2.01	18.5	0.6	3.35	30.83	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSS West Plaza Top	Illuminance	Fc	0.98	1.1	0.9	1.09	1.22	0.4 Fc Avg Per IES Plazas & Town Squares Med. Activity LZ3. 1Fc Min Egress Path
PAPSS West Plaza Top 1	Illuminance	Fc	2.49	7.8	0.8	3.11	9.75	0.4 Fc Avg. Per IES Plazas and Town Sqrs. 1 Fc Min. at Egress Per CBC
Ramp	Illuminance	Fc	14.9	69.9	1.0	14.97	69.90	1 Fc Min. Per CBC
Security Vehicle Parking Lot	Illuminance	Fc	7.45	19.0	2.1	3.55	9.05	3 Fc Minimum, 8 Fc Avg., 3:1 Uniformity Per IES G-1-16
West Arcade Ground Top	Illuminance	Fc	4.97	12.6	1.0	4.97	12.60	1Fc Minimum Per CBC Egress
West Arcade Ground Top 1	Illuminance	Fc	4.58	12.6	0.0	N.A.	N.A.	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
West Stairs 1 Side 4	Illuminance	Fc	12.0	14.4	10.0	1.21	1.44	1 Fc Min. Per CBC
West Stairs 2 Top 1	Illuminance	Fc	14.9	16.3	13.3	1.12	1.23	1 Fc Min. Per CBC
West Stairs 3 Side 4 1	Illuminance	Fc	14.6	31.0	1.5	9.79	20.67	1 Fc Min. Per CBC

LUMINAIRE SCHEDULE

Symbol	Qty	Label	Description	Lum. Watts	Lum. Lumens	LLF
●	3	CL1	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED TII Area Light - MSA-E01-LED-E1-T3-8030	24.7	2098	0.87
●	25	CL1A	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED TII Area Light - MSA-E02-LED-E1-T2-8030	52.1	4152	0.87
●	3	CL1B	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED TII Area Light - MSA-E04-LED-E1-T4-8030	97.2	8178	0.87
○	9	E1	BEGA 88 064 - 6in. Round 3in. Tall Pole Mounted Cylindrical LED Area Light	36	3383	0.63
○	11	E10	Lumenpulse LumenFacade - 2.5in. Aperture Surface Mounted Linear LED 30X60 Optic Adjustable Facade Light - LOG HO-120-48-35K 12XPE2-30x60-SI-NO	60.39	3665	0.63
○	27	E2	BEGA 22 360 - 12in. X 4.5in. Wall Mtd. Rectangular LED Area Light - 22360	20.5	1024	0.63
○	20	E3	BEGA 22 040 - 20in. X 5in. Wall Recessed Rectangular LED Lowered Stiplight - 22 040	19.2	124	0.63
○	92	E4	Luminii Kendo S Wet - 0.7in. Underbench Mid. Linear LED Tape Light in Aluminum Extrusion - KSW-48-30K-SO-C-X-WH-XX	12.9	826	0.63
○	24	E5	Klik Systems LEDPod - 0.25in. Handrail Recessed Round LED Stair Light - PCLens-WhiteAsymRef-2W-LED-500mA-LEDPOD-3000K-direct	2	107	0.63
○	8	E6	ERCO Lightscan - 12in. X 12in. Column Mounted Square LED Asymmetric Ceiling Uplight - 34447023_V03	60	2496	0.81
○	25	E7	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Wallwasher - 84465023_V04	10	610	0.81
○	48	E8	A Light D3 Series - 3.5in. Aperture Surface Mid. Linear LED Downlight (MOD 50% LIGHT OUTPUT, 3000K) - D3ALH40UHE	38.9	3316	0.31
○	6	E9	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84425023_V04	10	735	0.81
○	6	E9A	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84427023_V04	19	1467	0.81
○	1	E9B	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84429023_V04	30	2225	0.81
○	2	E9C	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84431023_V04	36	2967	0.81



CL1A/CL1B - Cooper Invue Mesa
E1 - BEGA 88 064
E2 - BEGA 22 360
E3 - BEGA 22 040
E4 - Luminii Kendo S Wet



E8 - A Light D3 Wet Location Linear

LUMINAIRE IMAGES

NOTES
 1. ILLUMINANCE CALCULATIONS ARE BASED ON PUBLISHED CALCULATION METHODS AND ARE FOR REFERENCE ONLY. FIELD MEASURED RESULTS MAY DIFFER FROM CALCULATED RESULTS AND ARE DEPENDANT ON A VARIETY OF FACTORS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: MANUFACTURER'S PHOTOMETRY DATA, LINE VOLTAGE, LUMINAIRE PERFORMANCE, TEMPERATURE, AND ACTUAL CONDITION OF FINISHES AND ENVIRONMENT.
 2. REFLECTANCE ASSUMPTIONS: WALL/BUILDING REFLECTANCE - 35% GROUND REFLECTANCE - 20%
 3.
 -CL1 SERIES LUMINAIRES MOUNTED 14'-0" AFG.
 -E2 SERIES LUMINAIRES MOUNTED 8'-0" AFG.
 -E3 LUMINAIRES MOUNTED 1'-2" AFG.
 -E4 LUMINAIRES MOUNTED 1'-5" AFG.
 -E4 LUMINAIRES MOUNTED 3'-0" AFG AT RAMP.
 -E5 LUMINAIRES MOUNTED 3'-0" ABOVE STAIR TREAD.
 -E9 LUMINAIRES MOUNTED 8'-0" AFG.
 4.* LLD CALCULATED BASED ON LINEAR INTERPOLATION TO 50,000 HOURS FROM MANUFACTURERS REPORTED LIFE.

PHOTOMETRIC STUDY - PALO ALTO PUBLIC SAFETY BUILDING MIDDLE

SCALE:

1"=20'-0"

	Project	Title	Project No.	Scale	Date	Sheet
	PALO ALTO PUBLIC SAFETY BUILDING	LSK001 R1 - ARB SUBMISSION	B17.07295.000	AS NOTED	07.18.2018	002

SITE LIGHTING PLAN

RossDrulisCusenbery ARCHITECTURE

ARB 07.04

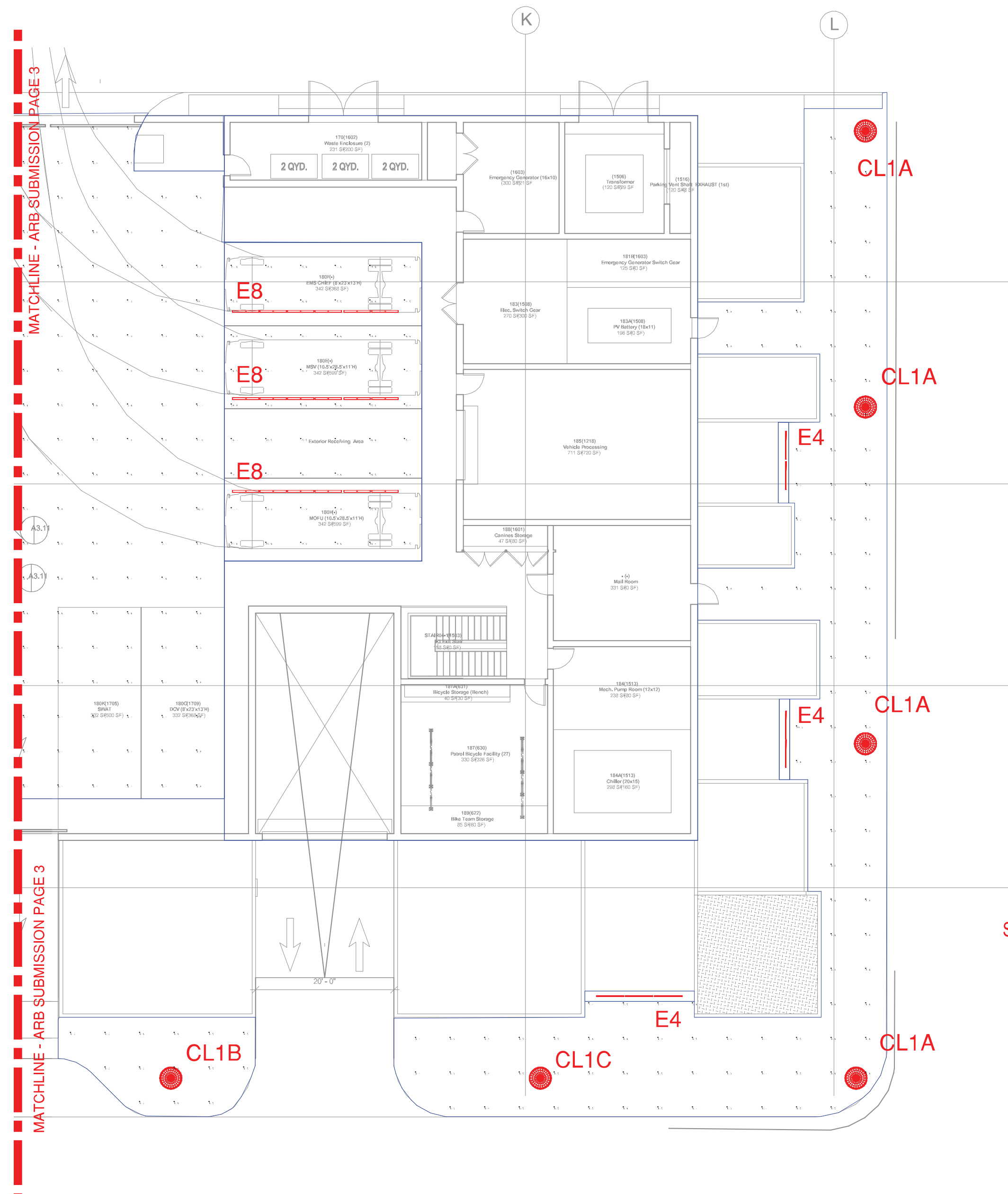
PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02

TECHNICAL DETAILS

07

site lighting plan



CALCULATION SUMMARY

Label	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min	Target Light Level
Courtyard	Illuminance	Fc	1.29	13.1	0.4	3.25	32.75	0.4 Fc Avg. Per IES Plazas and Town Sqrs. 1 Fc Min. at Egress Per CBC
East Stair 1 Top 1 1	Illuminance	Fc	11.9	15.3	8.1	1.47	1.89	1 Fc Min. Per CBC
East Stair 2 Side 5 1	Illuminance	Fc	14.1	27.3	6.6	2.14	4.14	1 Fc Min. Per CBC
East Stair 3 Top 1 1	Illuminance	Fc	17.0	28.9	6.6	2.59	4.38	1 Fc Min. Per CBC
East Stair 4 Side 4 1	Illuminance	Fc	19.0	44.3	3.9	4.88	11.36	1 Fc Min. Per CBC
East Stair 5 Top 1 1 1	Illuminance	Fc	6.26	22.3	2.9	2.16	7.69	1 Fc Min. Per CBC
East Stair 6 Side 4 1	Illuminance	Fc	1.62	5.7	0.2	8.10	28.50	1 Fc Min. Per CBC
East Stair 7 Top 1 1	Illuminance	Fc	0.88	2.2	0.1	8.80	22.00	1 Fc Min. Per CBC
East Stair Side 5 1	Illuminance	Fc	7.64	14.2	2.8	2.73	5.07	1 Fc Min. Per CBC
Garage East Pathway Top 1	Illuminance	Fc	3.13	20.9	0.6	5.22	34.83	0.5-1Fc Avg. Per BOD Light Level Legend
Garage Northeast Elev Thrahid 1	Illuminance	Fc	11.9	13.3	10.5	1.13	1.27	10 Fc Min. Per CBC
Garage West and South Pathway Top 1	Illuminance	Fc	2.00	6.3	1.0	2.00	6.30	0.5-1Fc Avg. Per BOD Light Level Legend
Garage West Elev Thrahid	Illuminance	Fc	11.6	12.5	10.6	1.10	1.18	10 Fc Min. Per CBC
Northeast Arcade Ground Top	Illuminance	Fc	5.62	19.1	1.0	5.62	19.10	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
PAPSB East and Southeast Pathway Top	Illuminance	Fc	2.81	10.6	0.3	9.37	35.33	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSB Entrance Top 1	Illuminance	Fc	6.04	6.9	4.5	1.34	1.53	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
PAPSB Garage Entry Top	Illuminance	Fc	2.60	4.1	1.0	2.60	4.10	1 Fc Min Per IES RP-20-14 Parking Garage Drive Aisle
PAPSB North Pathway Top	Illuminance	Fc	3.76	6.2	1.2	3.13	5.17	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSB West and South Walkway Top 1	Illuminance	Fc	2.01	18.5	0.6	3.35	30.83	0.5-1Fc Avg. Per BOD Light Level Legend
PAPSB West Plaza Top	Illuminance	Fc	0.98	1.1	0.9	1.09	1.22	0.4 Fc Avg Per IES Plazas & Town Squares Med. Activity LZ3. 1Fc Min Egress Path
PAPSB West Plaza Top 1	Illuminance	Fc	2.49	7.8	0.8	3.11	9.75	0.4 Fc Avg. Per IES Plazas and Town Sqrs. 1 Fc Min. at Egress Per CBC
Ramp	Illuminance	Fc	14.9	69.9	1.0	14.97	69.90	1 Fc Min. Per CBC
Security Vehicle Parking Lot	Illuminance	Fc	7.45	19.0	2.1	3.55	9.05	3 Fc Minimum, 8 Fc Avg., 3:1 Uniformity Per IES G-1-16
West Arcade Ground Top	Illuminance	Fc	4.97	12.6	1.0	4.97	12.60	1Fc Minimum Per CBC Egress
West Arcade Ground Top 1	Illuminance	Fc	4.58	12.6	0.0	N.A.	N.A.	1Fc Min. Per CBC; 3-8Fc Avg. Per BOD Light Level Legend
West Stairs 1 Side 4	Illuminance	Fc	12.0	14.4	10.0	1.21	1.44	1 Fc Min. Per CBC
West Stairs 2 Top 1	Illuminance	Fc	14.9	16.3	13.3	1.12	1.23	1 Fc Min. Per CBC
West Stairs 3 Side 4 1	Illuminance	Fc	14.6	31.0	1.5	9.79	20.67	1 Fc Min. Per CBC

LUMINAIRE SCHEDULE

Symbol	Qty	Label	Description	Lum. Watts	Lum. Lumens	LLF
●	3	CL1	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED Tilt Area Light - MSA-E01-LED-E1-T3-8030	24.7	2098	0.87
●	25	CL1A	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED Tilt Area Light - MSA-E02-LED-E1-T2-8030	52.1	4152	0.87
●	3	CL1B	Cooper Invue Mesa - 28in. Dia. Pole Top Round LED Tilt Area Light - MSA-E04-LED-E1-T4-8030	97.2	8178	0.87
○	9	E1	BEGA 88 064 - 6in. Round 31in. Tall Pole Mounted Cylindrical LED Area Light	36	3383	0.63
○	11	E10	Lumenpulse LumenFacade - 2.5in. Aperture Surface Mounted Linear LED 30x60 Optic Adjustable Facade Light- LOG HO-120-48-35K 12XPE2-30x60-SH-NO	60.39	3665	0.63
○	27	E2	BEGA 22 360 - 12 Sin. X 4 Sin. Wall Mttd. Rectangular LED Area Light - 22360	20.5	1024	0.63
○	20	E3	BEGA 22 040 - 20 Sin. X 5in. Wall Recessed Rectangular LED Lowvoltage Stairlight - 22 040	19.2	124	0.63
○	92	E4	Luminii Kendo S Wet - 0.7in. Underbench Mid. Linear LED Tape Light in Aluminum Extrusion - KSW-48-30K-SO-C-X-WH-XX	12.9	826	0.63
○	24	E5	Klik Systems LEDPod - 0.25in. Handrail Recessed Round LED Stair Light - PCLens-WhiteAsymRef-2W-LED-500mA-LEDPOD-3000K-direct	2	107	0.63
○	8	E6	ERCO Lightscan - 12in. X 12in. Column Mounted Square LED Asymmetric Ceiling Uplight - 34447023_V03	60	2496	0.81
○	25	E7	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Wallwasher - 84465023_V04	10	610	0.81
○	48	E8	A Light D3 Series - 3.5in. Aperture Surface Mttd. Linear LED Downlight (MOD 50% LIGHT OUTPUT, 3000K) - D34LH40UHE	38.9	3316	0.31
○	6	E9	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84425023_V04	10	735	0.81
○	6	E9A	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84427023_V04	19	1467	0.81
○	1	E9B	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84429023_V04	30	2225	0.81
○	2	E9C	ERCO Compact - 5.5in. Aperture Recessed Round LED Cast In Place Downlight - 84431023_V04	36	2967	0.81



LUMINAIRE IMAGES

- NOTES
- ILLUMINANCE CALCULATIONS ARE BASED ON PUBLISHED CALCULATION METHODS AND ARE FOR REFERENCE ONLY. FIELD MEASURED RESULTS MAY DIFFER FROM CALCULATED RESULTS AND ARE DEPENDANT ON A VARIETY OF FACTORS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: MANUFACTURERS PHOTOMETRY DATA, LINE VOLTAGE, LUMINAIRE PERFORMANCE, TEMPERATURE, AND ACTUAL CONDITION OF FINISHES AND ENVIRONMENT.
 - REFLECTANCE ASSUMPTIONS: WALL/BUILDING REFLECTANCE - 35% GROUND REFLECTANCE - 20%
 - CL1 SERIES LUMINAIRES MOUNTED 14'-0" AFG. E2 SERIES LUMINAIRES MOUNTED 8'-0" AFG. E3 LUMINAIRES MOUNTED 1'-2" AFG. E4 LUMINAIRES MOUNTED 1'-5" AFG. E4 LUMINAIRES MOUNTED 3'-0" AFG AT RAMP. E5 LUMINAIRES MOUNTED 3'-0" ABOVE STAIR TREAD. E6 LUMINAIRES MOUNTED 8'-0" AFG.
 - LLD CALCULATED BASED ON LINEAR INTERPOLATION TO 50,000 HOURS FROM MANUFACTURERS REPORTED LIFE.

PHOTOMETRIC STUDY - PALO ALTO PUBLIC SAFETY BUILDING NORTH

SCALE:
1"=20'-0"

	Project	Title	Project No.	Scale	Date	Sheet
	PALO ALTO PUBLIC SAFETY BUILDING	LSK001 R1 - ARB SUBMISSION	B17.07295.000	AS NOTED	07.18.2018	003

SITE LIGHTING PLAN

RossDrulisCusenbery ARCHITECTURE

ARB 07.05

PALO ALTO PUBLIC SAFETY BUILDING

2018.08.02