

# 201 EL CAMINO REAL



## PROJECT DATA SUMMARY

MIXED USE BUILDING  
COMMERCIAL  
RESIDENTIAL  
CONSTRUCTION TYPE V-B  
PLANNING PERMIT # TBD  
APN/ PARCEL ID: 071-413-200, 071-413-370, 071-413-380  
JPN/ TAX MAP ID: 071-041-413-20 and 071-041-413-21A

RE: **Menlo Park - 201 El Camino Real & 610 Cambridge Development Application**

Attached here please find our current plan set proposal for 201 El Camino & 610 Cambridge.  
Environmental Innovations in Design (EID) Architects, on behalf of the owners of 201 El Camino Real and 610/612 Cambridge Avenue, Menlo Park, California, are pleased to propose a new three story, sustainable, mixed-use design over a below grade parking structure. These residential and commercial condominiums are designed to create a strong sense of community with an abundance of beautifully landscaped open space. The proposed styling of the building is based in the traditional Monterey Spanish architectural forms and detailing while rendering them in a clean, bright, and modern manner with care and sensitivity to the surrounding environment.

In an effort to respect and preserve the character of the existing residential neighborhood on Cambridge Avenue, we propose a generous buffer of open space to ease the transition from the dense, urban streetscape of El Camino Real into the quiet single family community beyond. 612 Cambridge will be transformed into a "pocket park" with many publicly accessible amenities, shaded seating areas, and landscaped gardens. The residential character of the neighborhood is further enhanced by relocating the majority of the automobile parking into a below grade parking structure. A few conveniently placed drop-off and temporary parking spaces are above grade. These are subtly integrated into the new park area via pervious pavers and ecologically balanced gardens.

Existing on the project parcels are the following improvements:  
201 El Camino Real: A 1-story Commercial building of approximately 5,950 sq.ft., with 8 surface parking spaces, non-conforming in size and arrangement. Zoned ECR SW  
610 Cambridge Ave: An open, on-grade parking lot providing 28 parking spaces, some of which are non-conforming in arrangement. Zoned ECR SW  
612 Cambridge Ave: A single story 4-unit Residential building with no on site parking. 4 of the 28 spaces located on 610 Cambridge are reserved for the use of the residents in 612. Zoned R-3. (Note that the lot area of 612 Cambridge is excluded from the Density and FAR calculations of this project.)

Tabulations for the Proposed design have been updated and enlarged on Sheet A0.1 to account for:  
1.38 F.A.R. comprised of approx. 23,069 sq. ft. including:  
13 Market Rate Residential Units total = approx. 15,121 sq. ft.  
1st Floor Commercial/Medical area = approx. 7,948 sq. ft.  
Additionally, 2 BMR units are provided total = approx. 1,702 sq. ft.

Proposed Parking includes Total of 70 spaces:  
8 surface parking/dropoff/move-in/move-out spaces;  
62 parking spaces in a Drive-In Below Grade Parking Garage.

We are proposing a 3 story building (Max. 38 ft. tall to top of roof, and approx., 34 ft. to top of upper story balcony guardrail), with upper floors setting back as they rise (Sheets A5.1-A5.6 illustrates typical cross section).  
Vertical circulation is via (1) Elevator and (2) Exterior Exit Stairs appropriately located, and serving Exterior Exit Balconies. An additional stair serving the Parking Garage & exiting directly to the El Camino Real public way.

We are requesting the City abandon the short section of Alto Lane north of Cambridge. We propose to replace and relocate this right-of-way approximately 65' to the West so that it runs between the new openspace and the 1st floor of the proposed new building.

While we propose to incorporate the R-3 zoned 612 Cambridge parcel into the design of the project, we are not seeking to rezone this parcel. 612 Cambridge will remain a separate parcel. The FAR and Density calculations for this project are determined based on the lot area of the SP-ECR SW parcels, including the Alto Lane area.

This project will also address the localized flooding issue at the corner of El Camino and Cambridge. This will include upgrading the stormwater management system and significantly reduce runoff from the property. The current impervious area is at 78% will be decreased by managing infiltration and increasing pervious area with bioretention, landscaping, and use of pervious pavements.

## 201 El Camino Real, Menlo Park, CA Zoning Analysis

Zoning: 201 El Camino Real ECR SW Site Area: 16,748 sf  
612 Cambridge R-3

The lot area of R-3 zoned parcel is not included in these calculations.

	PERMITTED DEVELOPMENT INTENSITY		PROPOSED INTENSITY
	BASE ZONING	PERMITTED WITH PUBLIC BENEFIT	PROPOSED CONSTRUCTION:
Max FAR for all Uses:	1.1	1.5	1.38
Total floor area:	18,423 sq. ft.	25,122 sq. ft.	23,069 sq. ft.
Max Floor Area for offices, inclusive of medical offices: 50% of FAR			
Office/ Retail:	9,211 sq. ft.	12,561 sq. ft.	1,590 sq. ft.
Max Floor Area for medical offices: 33% of FAR			
Max. Medical Area:	6,135 sq. ft.	8,366 sq. ft.	6,358 sq. ft.
Permitted Density:	25 Units/acre	40 Units/acre	33 Units/acre
# Res. Units:	9 Units	15 Units	13 Units
Residential Floor Area:			15,121 sq. ft.
BMR Housing:			
BMR requirement @ 10%:	0.9	1.5	1.3 Units
BMR Units Proposed:			2 Units
BMR Floor Area:			1,702 sq. ft.
Total Floor Area including BMR units:			24,771 sq. ft.
Required Parking:			
Retail Parking @ 3.8 per 1,000 sf	1589.6 sq. ft.	6 cars	
Med. Parking: at 4.5 per 1,000 sf	6,358 sq. ft.	29 cars	
Res. Parking: at 1.85 per Unit	15 Units	28 cars	
Total Required Parking:			63 cars
Proposed Parking:			
Garage Level 1:			22 cars
Garage Level 2			40 cars
On Grade:			8 cars
Total Parking Provided:			70 cars
Bike Parking:			
Residential, Multi Family:			
Long Term	1 per Unit		15
Short Term	1 per 10		2
Office/ Medical			
Long Term	1 per 10,000 sf (2 Min.)		2
Short Term	1 per 20,000 sf (2 Min.)		2
Retail			
Long Term	1 per 12,000 sf (2 Min.)		2
Short Term	1 per 5,000 sf (2 Min.)		2

### DRAWING INDEX

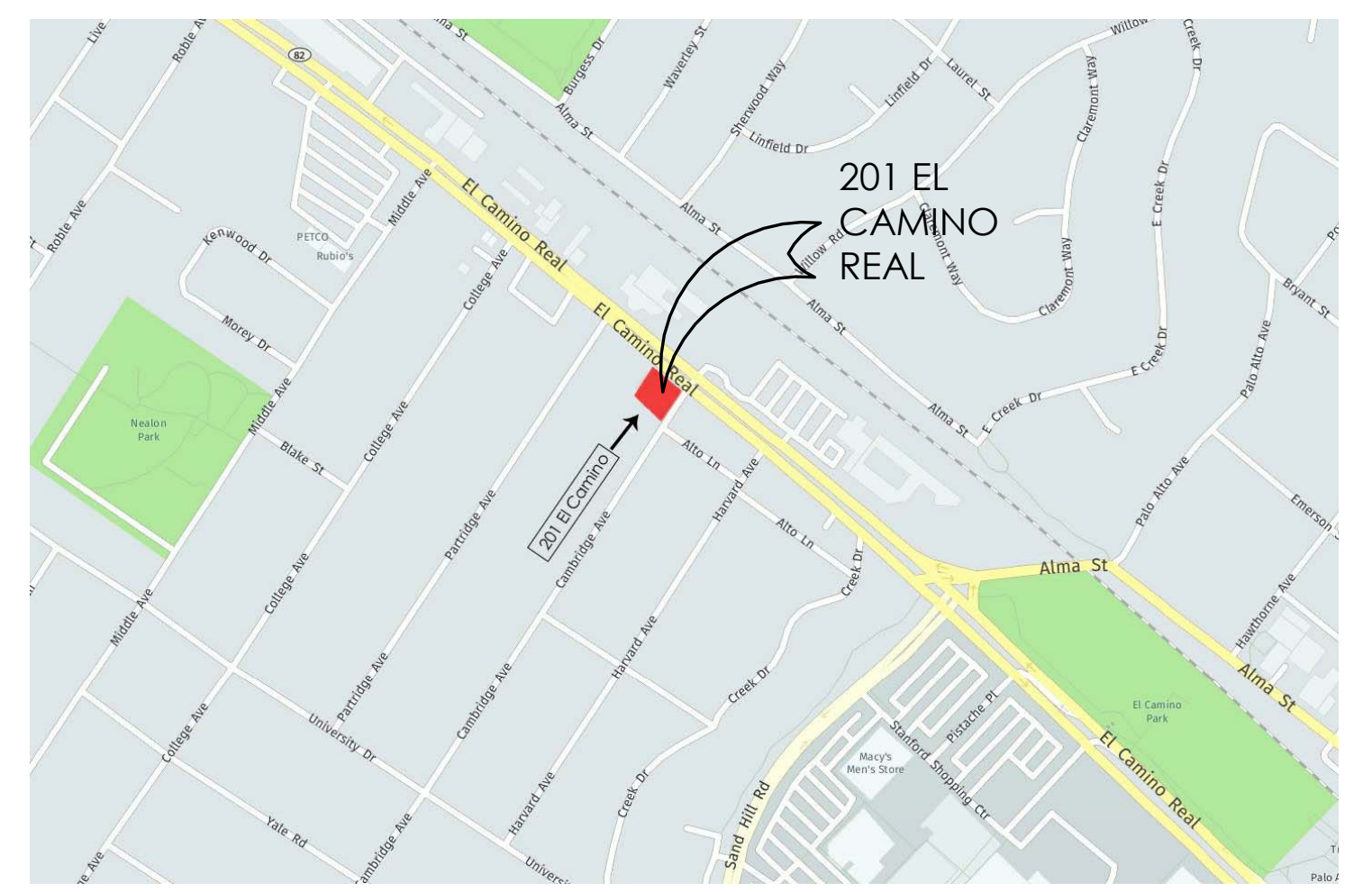
Architecture		Civil
A0.0 COVER SHEET	A3.1 1ST FLOOR PLAN	C2.0 SITE AND GRADING PLAN
A0.40 BEST MANAGEMENT PRACTICES - STORMWATER	A3.2 2ND FLOOR PLAN	C3.0 UTILITY PLAN
A0.41 BEST MANAGEMENT PRACTICES - EROSION CONTROL	A3.3 3RD FLOOR PLAN	C4.0 STORMWATER MANAGEMENT PLAN
A0.51 RENDER	A3.4 BASEMENT LEVEL 1 PLAN	EX-1 EXISTING PARCEL EXHIBIT
A0.52 RENDER	A3.5 BASEMENT LEVEL 2 PLAN	EX-2 PROPOSED PARCEL EXHIBIT
A0.53 ISOMETRIC	A3.6 ROOF PLAN	
A0.60 COLORS AND MATERIALS	A4.1 ELEVATIONS 1	Joint Trench
A0.61 ROOFING SPECS	A4.2 ELEVATIONS 2	INT1 JOINT TRENCH INTENT
A0.62 GLASS TILE ROOF & AC CONDENSER TO EXISTING	A4.3 ELEVATION/SECTION	Tree Protection
A0.63 WINDOW & DOOR IMAGES SIMILAR TO EXISTING	A5.1 SECTIONS 1	T-1 TREE DISPOSITION PLAN
A0.71 PROPOSED STREET SCAPE ELEVATIONS	A5.2 SECTIONS 2	T-2 TREE PROTECTION SPECIFICATIONS
A0.72 EXISTING STREET VIEWS OF UTILITIES AROUND PROJECT	A5.3 SECTIONS 3	Landscape
A1.2 AREA DIAGRAM - UNDERGROUND GARAGE	A5.4 SECTIONS 4	L1.0 LANDSCAPE PLAN
A1.3 AREA DIAGRAM - BUILDING	A5.5 SECTIONS 5	L1.1 LANDSCAPE IMAGES
	A5.6 SECTIONS 6	L2.0 PLANT LIST AND IMAGES
	GB-2.11 GREEN BUILDING COMM. MM1	L3.0 WATER USE CALCULATIONS
	GB-2.12 GREEN BUILDING COMM. MM2	Total Sheets: 46
	GB-2.13 GREEN BUILDING COMM. MM3	
	GB-2.14 GREEN BUILDING RES. MM1	
	GB-2.15 GREEN BUILDING RES. MM2	

### PROPOSED SCOPE OF GREEN DESIGN

- Green programming features will include:
- Near-zero energy net consumption
  - Recycled, Re-used materials at walls, roofs, floors.
  - Recycling of 85% of Construction Waste
  - High Efficiency Heating and Cooling Systems
  - Passive & Mechanical Ventilation for Indoor Air Quality
  - Plentiful, well oriented Daylighting
  - Tankless or High Efficiency Water Heaters
  - On-Demand Hot Water Recirculation Pumps
  - Photovoltaic and/or Hot Water Panels on Roofs
  - Use of Fly Ash and Recycled Rebar in Concrete
  - Heat dissipating technologies at exterior walls
  - Low-E, thermally insulated Windows
  - Drought Tolerant, Water Efficient Landscaping
  - LID Stormwater Management
  - Electrical Vehicle charging stations
  - Improved Energy Performance above Title-24 Energy Compliance Requirements

The Architect will provide professional services of this under California Architect license number C-26427.

### VICINITY MAP



#### HISTORICAL STUDY:

Urban Programmers  
10710 Ridgeview Ave.  
San Jose, CA 95127  
Phone: (408) 254-7171  
Mobil: bbamburg@usa.net

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#### GEOTECHNICAL:

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Mobil: (510) 353-3833  
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#### SURVEYOR/ CIVIL ENG.:

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#### GENERAL CONTRACTOR:

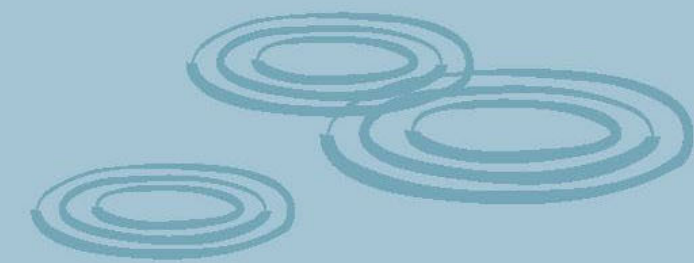
T.B.D.  
Phone:  
Mobil:  
Email:

#### OWNER:

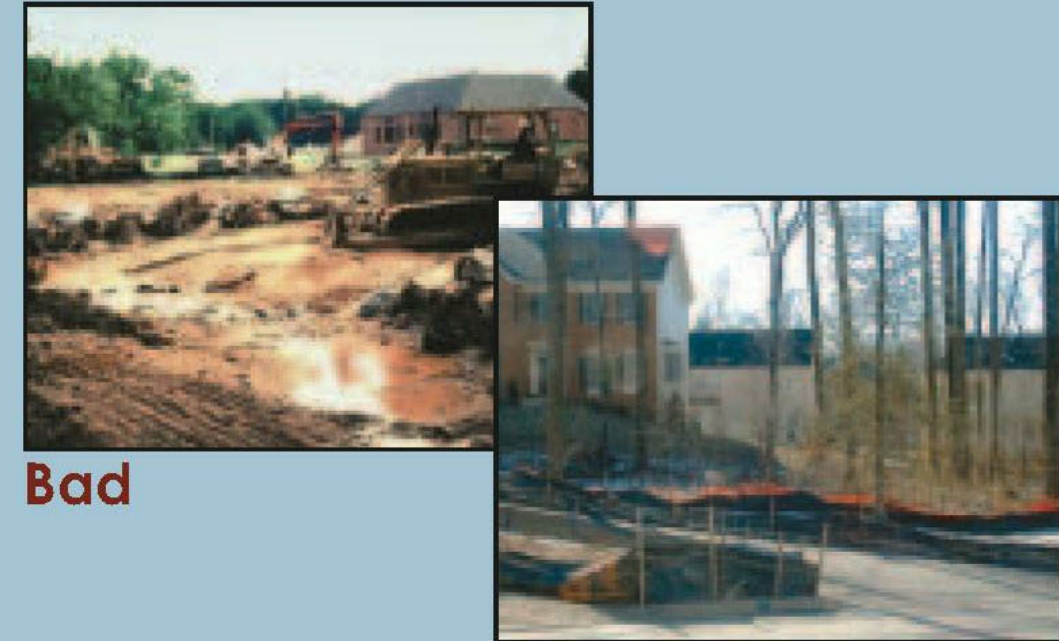
HuHanTwo, LLC  
86 Michaels Way  
Atherton, CA 94027  
Phone:  
Mobil: (202) 550-0045  
Email: yihanhu@stanford.edu

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# Stormwater and the Construction Industry



## Protect Natural Features



Bad

Good

Minimize clearing.  
Minimize the amount of exposed soil.  
Identify and protect areas where existing vegetation, such as trees, will not be disturbed by construction activity.  
Protect streams, stream buffers, wild woodlands, wetlands, or other sensitive areas from any disturbance or construction activity by fencing or otherwise clearly marking these areas.

## Construction Phasing

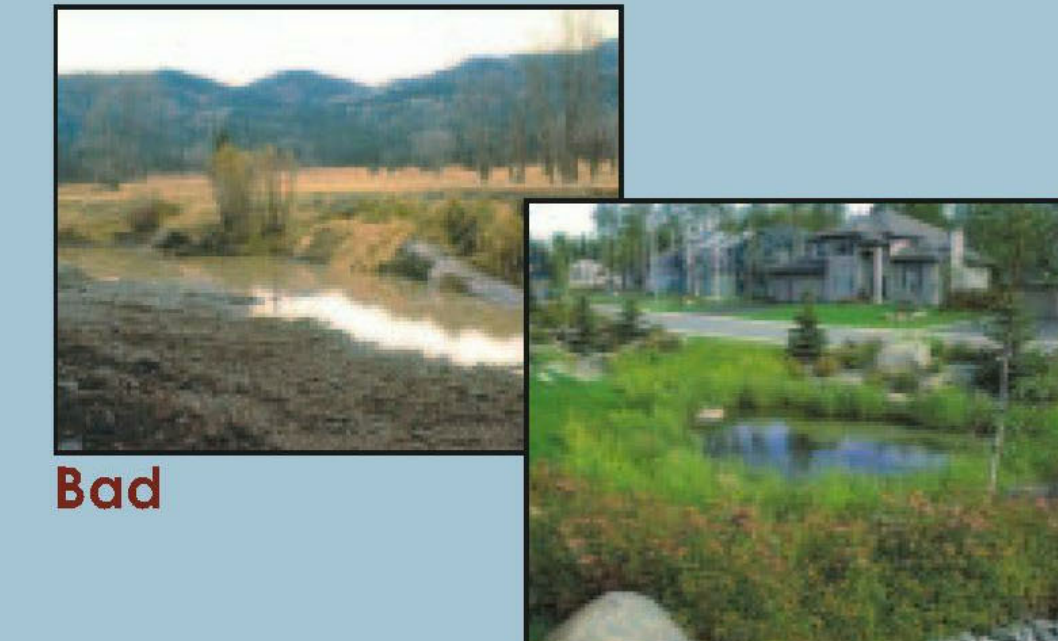


Bad

Good

Sequence construction activities so that the soil is not exposed for long periods of time.  
Schedule or limit grading to small areas.  
Install key sediment control practices before site grading begins.  
Schedule site stabilization activities, such as landscaping, to be completed immediately after the land has been graded to its final contour.

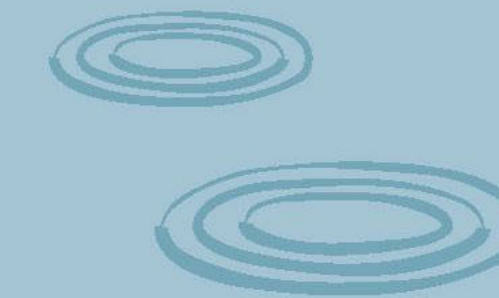
## Vegetative Buffers



Bad

Good

Protect and install vegetative buffers along waterbodies to slow and filter stormwater runoff.  
Maintain buffers by mowing or replanting periodically to ensure their effectiveness.



## Silt Fencing



Bad

Good

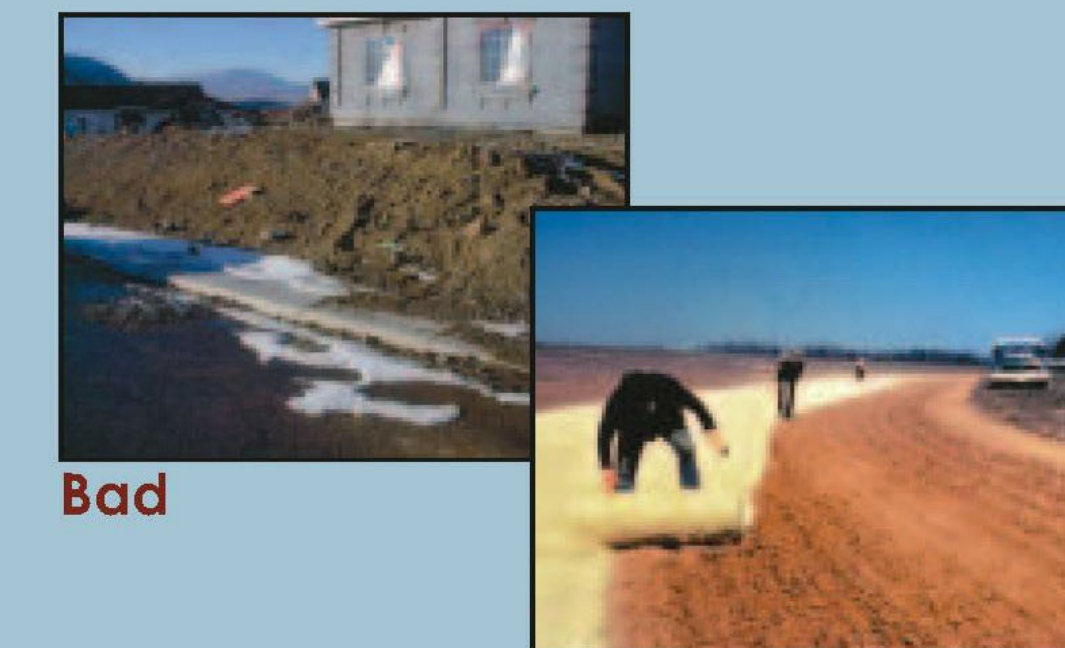
Inspect and maintain silt fences after each rainstorm.  
Make sure the bottom of the silt fence is buried in the ground.  
Securely attach the material to the stakes.  
Don't place silt fences in the middle of a waterway or use them as a check dam.  
Make sure stormwater is not flowing around the silt fence.

# Maintain your BMPs!



SAN MATEO COUNTYWIDE  
STORMWATER POLLUTION  
PREVENTION PROGRAM  
(STOPPP)  
A program of C/CAG  
[www.flowstobay.org](http://www.flowstobay.org)

## Site Stabilization



Bad

Good

Vegetate, mulch, or otherwise stabilize all exposed areas as soon as land alterations have been completed.

## Construction Entrances



Bad

Good

Remove mud and dirt from the tires of construction vehicles before they enter a paved roadway.  
Properly size entrance BMPs for all anticipated vehicles.  
Make sure that the construction entrance does not become buried in soil.

## Slopes



Bad

Good

Rough grade or terrace slopes.  
Break up long slopes with sediment barriers, or under drain, or divert stormwater away from slopes.

## Dirt Stockpiles



Bad

Good

Cover or seed all dirt stockpiles.

## Storm Drain Inlet Protection



Bad

Good

Use rock or other appropriate material to cover the storm drain inlet to filter out trash and debris.  
Make sure the rock size is appropriate (usually 1 to 2 inches in diameter).  
If you use inlet filters, maintain them regularly.

Source: [www.epa.gov/npdes/menuofbmps](http://www.epa.gov/npdes/menuofbmps)

# Stormwater and the Construction Industry

## Planning and Implementing Erosion and Sediment Control Practices

The construction industry is a critical participant in the nation's efforts to protect streams, rivers, lakes, wetlands, and oceans. Through the use of best management practices (BMPs), construction site operators are the key defense against erosion and sedimentation.

As stormwater flows over a construction site, it picks up pollutants like sediment, debris, and chemicals. High volumes of stormwater can also cause stream bank erosion, and destroy downstream aquatic habitat. Preventing soil erosion and sedimentation is an important responsibility at all construction sites.

In addition to the environmental impact, uncontrolled erosion can have a significant financial impact on a construction project. It costs money and time to repair gullies, replace vegetation, clean sediment-clogged storm drains, replace poorly installed BMPs, and mitigate damage to other people's property or to natural resources.

### Best Management Practice (BMP)

A BMP is a method used to prevent or control stormwater runoff and the discharge of pollutants, including sediment, into local waterbodies. Silt fences, inlet protection, and site-stabilization techniques are typical BMPs on a construction site.

### Operator

An operator is someone who has control over and the ability to modify construction plans and specifications (e.g. owner, general contractor) or

Someone who has control over the day-to-day operations at a site (e.g., owner, general contractor) that are necessary to ensure compliance with the permit requirements. It is the responsibility of a construction site owner or operator to contain stormwater runoff and prevent erosion during all stages of a project.

There may be more than one person at a site who meets these definitions and must apply for permit coverage. (States may have different definitions of the term "operator.")

### So what's being done about polluted runoff?

The Clean Water Act includes the National Pollutant Discharge Elimination System (NPDES) permitting program. As of January 2003, 44 states and territories are authorized to issue NPDES stormwater permits. If your state isn't authorized to operate the NPDES stormwater permit program, EPA issues the permits. Permits vary from state to state, so contact your state or EPA for specific information. Your permitting authority has specific information on your state's NPDES stormwater permit program. In general, construction permits require construction operators to do all of the following:

- Develop and implement a stormwater pollution prevention plan
- Submit a permit application or notice of intent (NOI)
- Comply with the permit, including maintaining BMPs and inspecting the site

Under the NPDES program, construction activities that disturb 1 or more acres are required to obtain stormwater permit coverage. States have different names for the plans that construction operators must develop, such as

- Stormwater pollution prevention plan
- Erosion and sediment control plan
- Erosion control and stormwater management plan
- Stormwater management plan
- Water pollution control plan
- Pollution prevention plan

This document uses the term "Plan."

### I think I need a permit... Where do I start?

All land-disturbing activities, including clearing, grading, and excavation, that disturb 1 or more acres are required to be covered under a state or EPA-issued NPDES construction stormwater permit prior to land disturbance. Permit requirements vary by state. Begin by researching the specific requirements in your state. You might already be subject to local erosion and sediment control requirements, but that doesn't release you from the requirements of the NPDES program at the state or EPA level. Although you must comply with both sets of requirements, in most cases they have been designed to be complementary. Contact your permitting authority to find out exactly what you need to do. A good place to start your search is the Construction Industry Compliance Assistance web site at <http://www.envcap.org/cica>.

The NPDES permit requirements include small construction activities that are part of a larger common plan of development or sale, such as a single lot within a larger subdivision. For developments with multiple operators, all operators must have permit coverage for their individual parts of the larger development, no matter how large or small each operation happens to be. When there are multiple operators at one site, they're encouraged to develop and share one comprehensive Plan and obtain permit coverage as co-permittees.

The owner or operator of the construction site is responsible for complying with the requirements of the permit. Responsibilities include developing a Plan, obtaining permit coverage, implementing BMPs, and stabilizing the site at the end of the construction activity.

### Determine your eligibility

All construction activity that disturbs 1 or more acres of land, as well as activity that disturbs less than 1 acre but is part of a larger common plan of development, must obtain permit coverage.

### Read and understand your stormwater permit requirements

Get a copy of the permit for construction activities and a permit application (or notice of intent form) from your state or EPA permitting authority.

### Develop a Plan

Most states do not require you to submit your Plan. However, you do need to keep the Plan on site. If that's impractical, you may post a notice that tells where the Plan is kept so it can be accessed by the permitting authority and other interested parties.

You'll need to post a copy of your completed application on site. Put it in a place where the public can see it so they'll know your site is covered by an NPDES permit!

### Apply for permit coverage

Once you understand your permit requirements and have developed a Plan, you can submit a stormwater permit application (or notice of intent) to your permitting authority. This must be done before beginning any land disturbance on the site. Some states require a few days of lead time, so check with your permitting authority. Once you've submitted the application, you must satisfy the conditions of the permit.

### Implement the Plan

Be prepared to implement the BMPs in your Plan before construction begins. Ensure that BMPs are properly maintained, and upgrade and repair them as necessary.

## Developing and Implementing a Plan

You must have a Plan that includes erosion and sediment control and pollution prevention BMPs. These Plans require

- Advance planning and training to ensure proper implementation of the BMPs
- Erosion and sediment control BMPs in place until the area is permanently stabilized
- Pollution prevention BMPs to keep the construction site "clean"
- Regular inspection of the construction site to ensure proper installation and maintenance of BMPs

Fortunately, the practices and measures that must be included in your Plan are already part of the standard operating procedures at many construction sites.

Six steps are associated with developing and implementing a stormwater Plan. There's a wealth of information available on developing pollution prevention plans. Please contact your permitting authority for help in finding additional guidance materials, or visit [www.epa.gov/npdes/stormwater](http://www.epa.gov/npdes/stormwater). A sample construction plan is available at [www.epa.gov/npdes/pubs/sample\\_swppp.pdf](http://www.epa.gov/npdes/pubs/sample_swppp.pdf).

### 1. Site Evaluation and Design Development

- Collect site information
- Develop site plan design
- Prepare pollution prevention site map

The first step in preparing a Plan is to define the characteristics of the site and the type of construction that will occur. This involves collecting site information, identifying natural features that should be protected, developing a site plan design, describing the nature of the construction activity, and preparing a pollution prevention site map.

### 2. Assessment

- Measure the site area
- Determine the drainage areas
- Calculate the runoff coefficient

The next step is assessing the impact the project will have on stormwater runoff. Determine the drainage areas and estimate the runoff amounts and velocities. For more information on calculating the runoff coefficient, go to [www.epa.gov/npdes/pubs/chap02\\_conguide.pdf](http://www.epa.gov/npdes/pubs/chap02_conguide.pdf), page 11.

### 3. Control Selection and Plan Design

- Review and incorporate state or local requirements
- Select erosion and sediment controls
- Select other controls
- Select stormwater management controls
- Indicate the location of controls on the site map
- Prepare an inspection and maintenance plan
- Coordinate controls with construction activity
- Prepare sequence of major activities

In the third step you'll actually document your procedures to prevent and control polluted stormwater runoff. You must delineate areas that will not be disturbed, including critical natural areas like streamside areas, floodplains, and trees. You must also identify the measures (or BMPs) you'll use to protect these areas.

#### Soil erosion control tips...

- Design the site to infiltrate stormwater into the ground and to keep it out of storm drains. Eliminate or minimize the use of stormwater collection and conveyance systems while maximizing the use of stormwater infiltration and bioretention techniques.
- Minimize the amount of exposed soil on site.
  - To the extent possible, plan the project in stages to minimize the amount of area that is bare and subject to erosion. The less soil exposed, the easier and cheaper it will be to control erosion.
  - Vegetate disturbed areas with permanent or temporary seeding immediately upon reaching final grade.
  - Vegetate or cover stockpiles that will not be used immediately.
- Reduce the velocity of stormwater both onto and away from the project area.
  - Interceptors, diversions, vegetated buffers, and check dams are a few of the BMPs that can be used to slow down stormwater as it travels across and away from the project site.
  - Diversion measures can also be used to direct flow away from exposed areas toward stable portions of the site.
  - Silt fences and other types of perimeter filters should never be used to reduce the velocity of runoff.
- Protect defined channels immediately with measures adequate to handle the storm flows expected.
  - Sod, geotextile, natural fiber, riprap, or other stabilization measures should be used to allow the channels to carry water without causing erosion. Use softer measures like geotextile or vegetation where possible to prevent downstream impacts.
- Keep sediment on site.
  - Place aggregate or stone at construction site vehicle exits to accommodate at least two tire revolutions of large construction vehicles. Much of the dirt on the tires will fall off before the vehicle gets to the street.
  - Regular street sweeping at the construction entrance will prevent dirt from entering storm drains. Do not hose paved areas.
  - Sediment traps and basins are temporary structures and should be used in conjunction with other measures to reduce the amount of erosion.
- Maintaining all BMPs is critical to ensure their effectiveness during the life of the project.
  - Regularly remove collected sediment from silt fences, berms, traps, and other BMPs.
  - Ensure that geotextiles and mulch remain in place until vegetation is well established.
  - Maintain fences that protect sensitive areas, silt fences, diversion structures, and other BMPs.

#### Other BMPs and Activities to Control Polluted Runoff

You'll need to select other controls to address potential pollutant sources on your site. Construction materials, debris, trash, fuel, paint, and stockpiles become pollution sources when it rains. Basic pollution prevention practices can significantly reduce the amount of pollution leaving construction sites. The following are some simple practices that should be included in the Plan and implemented on site:

- Keep potential sources of pollution out of the rain as practicable (e.g., inside a building, covered with plastic or tarps, or sealed tightly in a leak-proof container).
- Clearly identify a protected, lined area for concrete truck washouts. This area should be located away from streams, storm drain inlets, or ditches and should be cleaned out periodically.
- Park, refuel, and maintain vehicles and equipment in one area of the site to minimize the area exposed to possible spills and fuel storage. This area should be well away from streams, storm drain inlets, or ditches. Keep spill kits close by and clean up any spills or leaks immediately, including spills on pavement or earthen surfaces.
- Practice good housekeeping. Keep the construction site free of litter, construction debris, and leaking containers. Keep all waste in one area to minimize cleaning.
- Never hose down paved surfaces to clean dust, debris, or trash. This water could wash directly into storm drain or streams. Sweep up materials and dispose of them in the trash. Never bury trash or debris!
- Dispose of hazardous materials properly.

Phasing your project to minimize the amount of exposed soil at any given time is a highly effective way to prevent erosion. Erosion control measures designed to prevent soil from being mobilized include diversions to route stormwater away from exposed soils and stabilization with vegetation, mulch, and geotextiles. Sedimentation control measures designed to remove sediment from stormwater or prevent it from leaving the site include silt fences, sediment traps, and diversions.

You'll need to select erosion and sediment controls—including stabilization measures for protecting disturbed areas and structural controls for diverting runoff and removing sediment—that are appropriate for your particular site. The appropriateness of the control measures will depend on several factors, but will be influenced most directly by the site characteristics. Some stabilization measures you might consider are temporary seeding, permanent seeding, and mulching. Structural control measures include earth dikes, silt fences, and sediment traps. No single BMP will meet all of the erosion and sedimentation control needs of a construction site. A combination of BMPs is necessary. For more information on the types of BMPs appropriate for your construction site, see the BMP fact sheet series available at [www.epa.gov/npdes/menuofbmps](http://www.epa.gov/npdes/menuofbmps).

## 4. Certification and Notification

- Certify the Plan
- Submit permit application or notice of intent

Once the Plan has been developed, an authorized representative must sign it. Now is the time to submit the permit application or notice of intent. Your permit might require that the Plan be kept on site, so be sure to keep it available for the staff implementing the Plan.

*Erosion and sedimentation control practices are only as good as their installation and maintenance.*

## 5. Implementing and Maintaining a Plan

- Implement controls
- Inspect and maintain controls
- Update/change the Plan
- Report releases of hazardous materials

A Plan describes the practices and activities you'll use to prevent stormwater contamination and meet the NPDES permit requirements. Make sure that the Plan is implemented and that the Plan is updated as necessary to reflect changes on the site.

Erosion and sedimentation control practices are only as good as their installation and maintenance. Train the contractors that will install the BMPs and inspect immediately to ensure that the BMPs have been installed correctly.

Regularly inspect the BMPs (especially before and after rain events) and perform any necessary repairs or maintenance immediately. Many BMPs are designed to handle a limited amount of sediment. If not maintained, they'll become ineffective and a source of sediment pollution.

It's also important to keep records of BMP installation, implementation, and maintenance. Keep track of major grading activities that occur on the site, when construction activities cease (temporarily or permanently), and when a site is temporarily or permanently stabilized.

If construction plans change at any time, or if more appropriate BMPs are chosen for the site, update the Plan accordingly.

## 6. Completing the Project: Final Stabilization and Termination of the Permit

- Final stabilization
- Notice of Termination
- Record retention

Many states and EPA require a Notice of Termination (NOT) or other notification signifying that the construction activity is completed. An NOT is required when

- Final stabilization has been achieved on all portions of the site for which the permittee is responsible.
- Another operator has assumed control over all areas of the site that have not been finally stabilized. That operator would need to submit a new permit application to the permitting authority.
- For residential construction only, temporary stabilization of a lot has been completed prior to transference of ownership to the homeowner, with the homeowner being made aware of the need to perform final stabilization.

Permittees must keep a copy of their permit application and their Plan for at least 3 years following final stabilization. This period may be longer depending on state and local requirements.

### Preconstruction Checklist

- A site description, including
  - Nature of the activity
  - Intended sequence of major construction activities
  - Total area of the site
  - Existing soil type and rainfall runoff data
- A site map with:
  - Drainage patterns
  - Approximate slopes after major grading
  - Area of soil disturbance
  - Outline of areas which will not be disturbed
  - Location of major structural and nonstructural soil erosion controls
  - Areas where stabilization practices are expected to occur
  - Surface waters
  - Stormwater discharge locations
- Name of the receiving water(s)
- A description of controls:
  - Erosion and sediment controls, including
    - Stabilization practices for all areas disturbed by construction
    - Structural practices for all drainage/discharge locations
  - Stormwater management controls, including
    - Measures used to control pollutants occurring in stormwater discharges after construction activities are complete
    - Velocity dissipation devices to provide nonerosive flow conditions from the discharge point along the length of any outfall channel
  - Other controls, including
    - Waste disposal practices that prevent discharge of solid materials
    - Measures to minimize offset tracking of sediments by construction vehicles
    - Measures to ensure compliance with state or local waste disposal, sanitary sewer, or septic system regulations
  - Description of the timing during the construction when measures will be implemented
- State or local requirements incorporated into the Plan
- Inspection and maintenance procedures for control measures identified in the Plan
- Contractor certification and Plan certification

### Implementation Checklist

- Maintain records of construction activities, including
  - Dates when major grading activities occur
  - Dates when construction activities temporarily cease on the site or a portion of the site
  - Dates when construction activities permanently cease on the site or a portion of the site
  - Dates when stabilization measures are completed on the site
- Prepare inspection reports summarizing
  - Name of person conducting BMP inspections
  - Qualifications of person conducting BMP inspections
  - BMPs/areas inspected
  - Observed conditions
  - Necessary changes to the Plan
- Report releases of reportable quantities of oil or hazardous materials
  - Notify the National Response Center at 800-424-8802 immediately
  - Report releases to your permitting authority immediately, or as specified in your permit. You must also provide a written report within 14 days.
  - Modify the Plan to include
    - The date of release
    - Circumstances leading to the release
    - Steps taken to prevent recurrence of the release
- Modify Plan as necessary
  - Incorporate requests of the permitting authority to bring the Plan into compliance
  - Address changes in design, construction operation, or maintenance that affect the potential for discharge of pollutants

*An ounce of prevention is worth a pound of cure! It's far more efficient and cost-effective to prevent pollution than it is to try to correct problems later. Installing and maintaining simple BMPs and pollution prevention techniques on site can greatly reduce the potential for stormwater pollution and can also save you money!*



Visit [www.epa.gov/npdes/stormwater](http://www.epa.gov/npdes/stormwater) for more information.

201 EL CAMINO REAL  
MENLO PARK, CALIFORNIA 94025

BEST MANAGEMENT  
PRACTICES - EROSION  
CONTROL

SHEET NUMBER  
A0.41

ENVIRONMENTAL INNOVATIONS IN DESIGN  
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PHONE: 650-226-8770 WWW.EIDARCHITECTS.COM

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ECO FUNCTIONAL ARCHITECTURE



EL CAMINO REAL AND CAMBRIDGE AVE.

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DATE  
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SHEET TITLE  
RENDER

SHEET NUMBER  
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CAMBRIDGE AVE.

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RENDER

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5 3D View 2



3 Rear of building with garage



4 Cambridge Ave with garage



6 3D View 3



1 ISOMETRIC VIEW



2 Street view at El Camino & Cambridge

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SPANISH STYLE WITH ARCHES AND CURVED WALLS 13.



SECOND FLOOR BALCONY WITH POSTS AND THIN RAILINGS, ARCHED WINDOWS/ DOORS, CHIMNEYS 10.



COLUMNS WITH CAP 7.



DIVIDED WINDOWS WITH AWNINGS 6.



GABLE TILE ROOF WITH VENTS 2.



WALL FOUNTAIN 12.



CORBELS UNDER SECOND FLOOR OVERHANG 9.



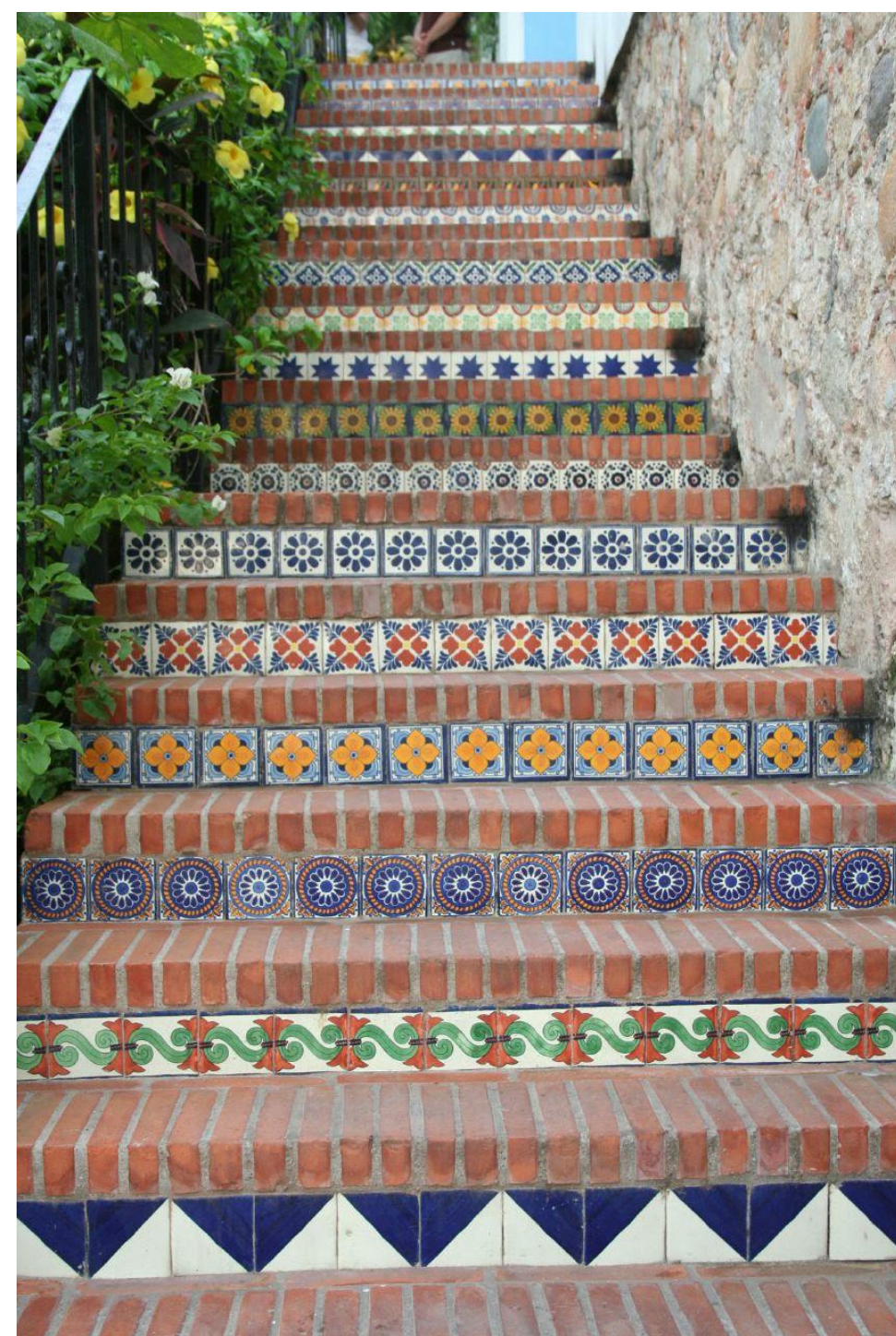
SECOND FLOOR OVERHANG WITH CORBELS 5.



TYPICAL TILE ROOF AT END GABLE 1.



SPANISH TILES AND PAVING 11.



TILED STAIRS 11.



CORBELS UNDER BALCONY 8.



WHITE PLASTER/STUCCO WALLS WITH VERTICAL DARK WINDOWS AND EAVE CORBELS 4.



WHITE PLASTER WALLS 3.

EXTERIOR COLOR/ MATERIAL SCHEDULE					
	MATERIALS / APPLICATION	CODE	COLOR	MANUFACTURER	
ROOF	CLAY TILE	M1	CAFE ANTIGUA BLEND	REDLAND CLAY TILE, OR EQ	
	TPO ROOF	M2	SLATE GREY	GAF, OR EQUAL	
	SOFFIT	M3	PEARLY WHITE - KMW44	KELLY MOORE	
WALL	STUCCO - 20/20 SAND FINISH	M4	PEARLY WHITE - KMW44	KELLY MOORE	
	STUCCO - SMOOTH TROWELED	M5	PEARLY WHITE - KMW44	KELLY MOORE	
	STUCCO - HEAVY TEXTURE	M6	PEARLY WHITE - KMW44	KELLY MOORE	
	16" HORIZ. COMPOSITE SIDING	M7	WALNUT	TRESPA, OR EQUAL	
	WOOD	M8	NATURAL REDWOOD OR CEDAR		
MISC.	GARAGE DOOR	M9	6" HORIZ. SIDING FLAT BOARD.	CARRIAGE DOOR, OR EQ.	
	FRENCH DOOR	M10	DARK BRONZE	FLEETWOOD, OR EQUAL	
	WINDOW FRAMES	M11	BREAK METAL BLACK	ALL WEATHER, OR EQ.	
	DOOR/ WINDOW GLASS	M12	10E 366	CARDINAL, OR EQUAL	
	DOOR/ WINDOW GLASS	M13	ACID ETCHED, OBSCURE GLASS	CARDINAL, OR EQUAL	
	DOOR/ WINDOW HARDWARE	M14	DARK BRONZE OR EQUAL		
	RAILING - GLASS	M15			
	RAILING - WOOD	M16	KMA89-5 BLACK OAK	KELLY MOORE, OR EQUAL	
	EXTERIOR METAL, FASCIAS, COLUMNS, TRELIS BEAMS, GALVANIZED METAL ROUND DOWNSPOUTS, ADDRESS NUMBER, CHIMNEY CAP, MECHANICAL SCREEN	M17	Option 1: Steel sand blasted; Factory spray applied bonding of 3/32" aluminum (aluminized treatment); factory powder coated paint; fasteners are stainless steel or welds). Option 2: Steel sand blasted; Factory spray applied bonding of 3/32" aluminum (aluminized treatment); factory powder coated paint with colored rust texture (Cardinal BR47, or equal) to achieve brown colored rust patina); fasteners are stainless steel or welds).	KMA89-5 BLACK OAK	LOS GATOS IRON WORKS, OR EQUAL KELLY MOORE, OR EQUAL

\* NOTES: EXACT COLORS TO BE VERIFIED W/ OWNER & ARCHITECT

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Reverse Cycle Heat Pump

STANDARD FEATURES

- Dual System Programmable Compressor (Two Separate Refrigerant Circuits)
- Simple Piping & Plumbing
- Easily Zoned
- 30% Larger Condenser Coil than Traditional Units
- Self Diagnostic Control – Carel Factory Programmed – Field Adjustable
- Low Current (AMP) Requirements
- Simplified Installation & Ease of Service
- Quiet Operation – “Soft Start” Package
- Highest R-410A COP and EER
- No Refrigerant Handling
- Refrigerant Stays Outside the Building
- Low Ambient Antifreeze Protection
- 30% Less Refrigerant than Conventional Split System
- Durable Baked Enamel Finish
- Low Ambient Cooling Enabled
- Automatic Lead/Lag between Compressors
- Easy Service Access



<p>□ MODEL: SCM036A4 Qty. _____</p> <p>HEATING CAPACITY: KW – 10.4 BTU/h – 35,500</p> <p>COP: 2.70</p> <p>COOLING CAPACITY: KW – 11.3 BTU/h – 38,500</p> <p>EER: 9.2</p> <p>VOLTAGE: 230V/1Ø/60Hz</p> <p>COMPRESSOR: Rotary x 2</p>	<p>□ MODEL: SCM060A4 Qty. _____</p> <p>HEATING CAPACITY: KW – 17.6 BTU/h – 60,250</p> <p>COP: 2.55</p> <p>COOLING CAPACITY: KW – 18.0 BTU/h – 61,500</p> <p>EER: 8.7</p> <p>VOLTAGE: 230V/1Ø/60Hz</p> <p>COMPRESSOR: Rotary x 2</p>
---	---



260 North Elm St., Westfield, MA 01085  
(800) 465-8558 Fax: (413) 564-5815

7555 Tranmere Drive, Mississauga, ONT. L5S 1L4 Canada  
(905) 670-5888 Fax: (905) 670-5782  
www.spacepak.com

PROJECT: \_\_\_\_\_ DATE: \_\_\_\_\_

LOCATION: \_\_\_\_\_

CUSTOMER: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_

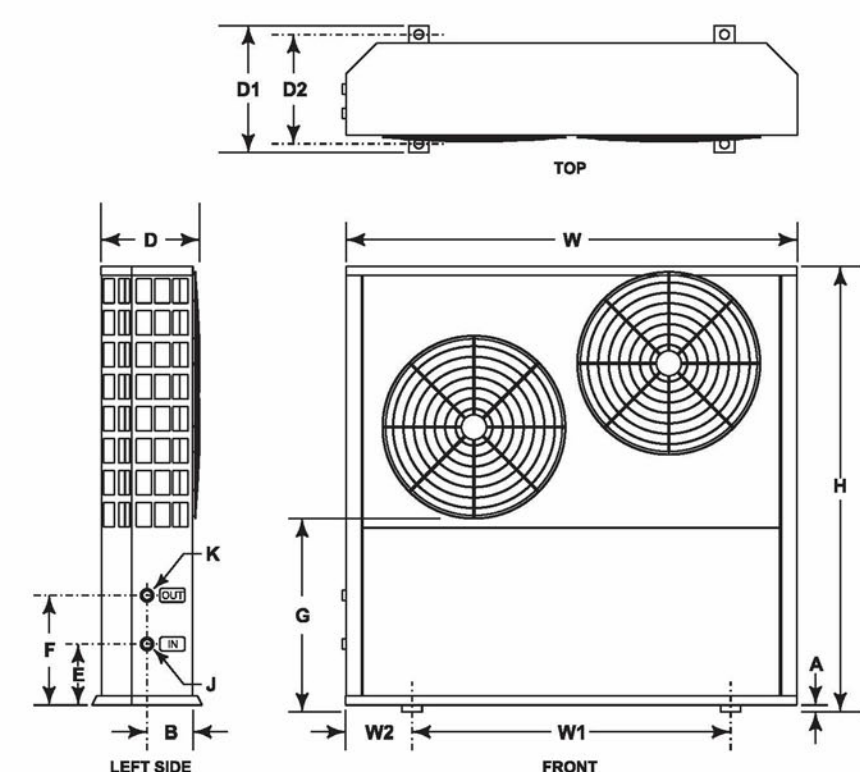
FOR:  Reference  Approval  Construction

UNIT DESIGNATION: \_\_\_\_\_

SCHEDULE NUMBER: \_\_\_\_\_

SUBMITTAL DATA: CHILLER SERIES SCM036/060

DIMENSIONS



Model	A	B	D	D1	D2	E	F	G	H	J	K	W	W1	W2
SCM-036	1	10	17 3/4	17 3/4	15 1/4	5 1/2	15 1/4	25	53	1" NPT	1" NPT	43 3/4	27 1/2	7 1/4
SCM-060	1	10	17 3/4	17 3/4	15 1/4	5 1/2	15 1/4	25	53	1" NPT	1" NPT	43 3/4	27 1/2	7 1/4

PERFORMANCE

Cooling Operation – 47°F water					Heating Operation				
Ambient Temp °F	Capacity BTU/hr	Chiller Power Watts	Chiller COP	Chiller EER	Ambient Temp °F	Capacity BTU/hr	Chiller Power Watts	Chiller COP	Water Supply Temp.
<b>3 Ton SpacePak Chiller</b>					<b>3 Ton SpacePak Chiller</b>				
82	38,563	2,523	4.47	15.28	45	35,638	3,855	2.70	115
95	29,694	3,873	2.25	7.67	32	26,295	3,472	2.22	110
105	22,980	4,912	1.38	4.66	20	20,245	3,103	1.91	105
<b>5 Ton SpacePak Chiller</b>					<b>5 Ton SpacePak Chiller</b>				
82	61,526	5,150	3.50	11.95	45	60,256	6,919	2.55	115
95	54,621	5,881	2.72	9.29	32	42,770	5,927	2.11	110
105	45,668	6,643	2.01	6.87	20	24,769	4,125	1.76	105



Section 2: Specifications and ratings

Figure 1 Model SCM rating data

Item	Units	SCM-036	SCM-060	Item	Units	SCM-036	SCM-060
Cooling capacity (Note 2)	Bluh / KW	34,000 / 10.0	46,000 / 13.5	Supply voltage	VAC	230/1Ø0	230/1Ø0
Heating capacity (Note 3)	Bluh / KW	44,000 / 13.0	60,000 / 17.0	Running current, cooling (Note 1)	Amps	17.6	26.4
Fan speed	RPM	850	850	Running current, heating (Note 1)	Amps	13.1	21.3
Noise level	dB(A)	56	56	MCA (Note 1)	Amps	19.7	30.3
Water volume	Gallons	2	2.5	Return connection	Inches NPT	1	1
Supply connection	Inches NPT	1	1	Maximum supply temperature	°F	125	125
Minimum supply temperature	°F	36	36	Maximum flow	GPM	12	15
Minimum flow	GPM	7	10	Pressure drop at maximum flow	Feet WC	21	28
Pressure drop at minimum flow	Feet WC	8	17	Operating weight	Lbs	354	407
Net weight	Lbs	337	386	Shipping dimensions	Inches	47 x 18 x 60	47 x 18 x 60
Shipping weight	Lbs	346	395				

Note 1: Electrical ratings DO NOT include water pump amp draw. This pump is supplied by the installer. Add the current draw of the pump to the values listed above. Adjust the MCA accordingly.  
 Note 2: Performance at 95° ambient temperature, 47° water  
 Note 3: Performance at 45° ambient temperature, 115° water

Figure 2 Model SCM coding

Typical model	S	C	M	O	6	O	A	4
Position	1	2	3	4	5	6	7	8
Designation	Unit Type			Capacity			Series	Refrigerant type
Values	SCM = SpacePak Heat Pump/Chiller Module			036 = 3 ton nominal 060 = 5 ton nominal			A = Series "A"	4 = R410A
Examples	SCM-036-A-4 = 3 ton nominal, series A, using R410A refrigerant, SpacePak Heat Pump/Chiller Module SCM-060-A-4 = 5 ton nominal, series A, using R410A refrigerant, SpacePak Heat Pump/Chiller Module							

Standard equipment

- Heat pump/chiller, including two refrigeration systems, factory-programmed controller, fans and all required internal components
- Powder-coated enclosure
- Auxiliary electric immersion heater (3 KW, 230V/1Ø0) — requires separate electrical power circuit, 15-amp minimum breaker

Additional components required

- Pump and piping by others
- Expansion tank, properly sized for system volume
- SpacePak Chiller Interface Module

Section 4: LOCATION & MOUNTING

**WARNING** Failure to comply with all of the guidelines IN THE FOLLOWING could result in death, serious injury or substantial property damage.

**NOTICE** The installation must comply with all applicable local codes.

Prepare the unit

- Inspect the unit for shipping damage. DO NOT use if there is a risk that the damage could affect unit operation.
- Make sure all required components are available.
- Install optional immersion heater, if used. See instructions provided with the heater.

Location

- DO NOT locate where the unit could be sprayed by sprinklers.
- DO NOT locate near swimming pools, spas or any location that could cause chlorine or other contaminant to enter the unit.
- DO NOT locate where water run-off from adjacent structures could impinge on the unit.
- Maintain the clearances shown in Figure 5.
- LOW AMBIENT conditions — Contact SpacePak Technical Support to obtain low ambient adjustment instructions if cooling operation below 55°F is required.
- CORROSIVE ENVIRONMENTS — Do not install the unit in an area subject to sea air or other potential corrosive contaminants.
- INDOOR INSTALLATION — If the unit is installed inside a building, the building must be equipped with air openings sufficient to ensure free discharge of heated (or cooled) air generated by the heat pump/chiller. All clearances must be maintained to ensure free air flow into and out of the enclosure. Make sure no other equipment located in the space will be affected by the unit's air flow.

Figure 4 Handling with cables

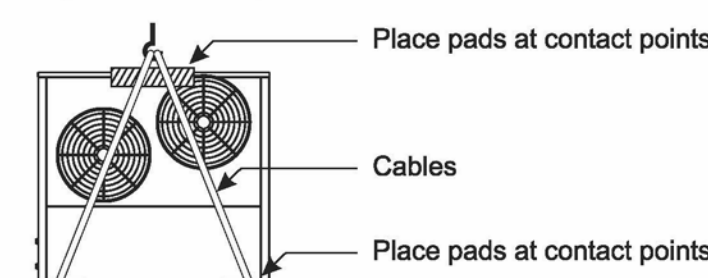
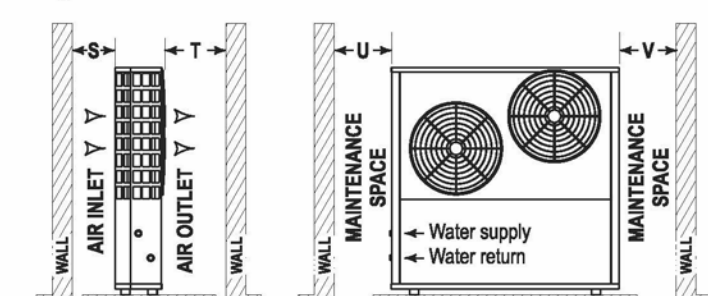


Figure 5 Maintain clearances below



Minimum clearances (inches)				
S	T	U	V	
20	59	40	20	

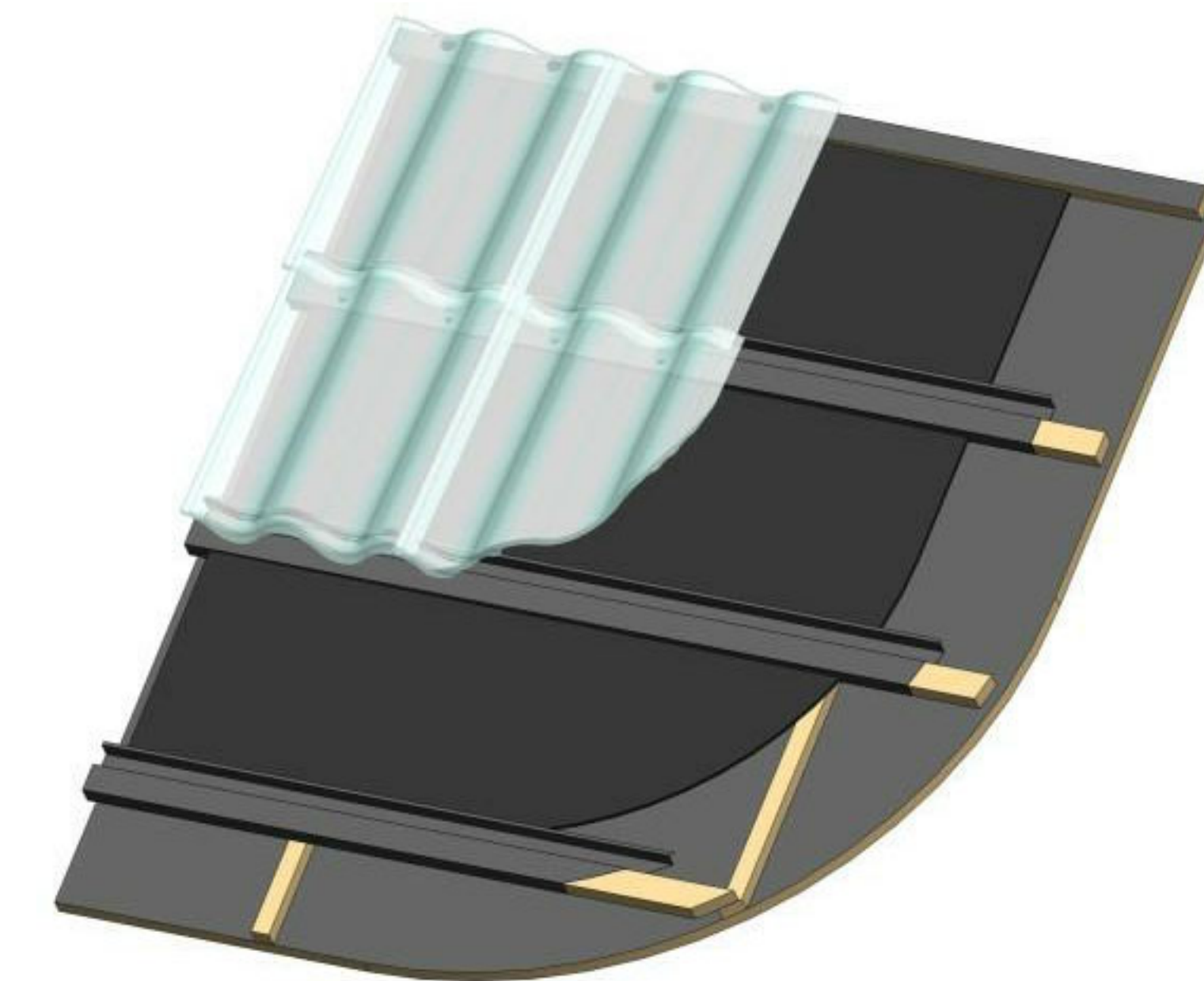
Mounting pad

- The SpacePak heat pump/chiller must be mounted on a level corrosion- and weather-resistant mounting surface, preferably concrete. The structural support must be suitable for the operating weight of the unit and attached components, its mounting pad, snow loading and any other expected loads.
- The mounting pad must not be attached directly to a structure where noise transmission would be objectionable.
- Vibration isolators supplied with the chiller may be installed when desired to reduce transmitted vibration.
- The unit must be bolted securely to the pad. Where required by local jurisdiction, the mounting must also be analyzed for seismic loading capability.
- The mounting must ensure that there will be no debris accumulation which might block air flow through the enclosure openings. The lower edge of the lower fan opening must be above the typical snow line, including allowance for drifting.
- There must be no accumulation of water that could reach the bottom of the unit's enclosure.

Handling

- See Figure 4.
- Place padding at pressure points to prevent damage to the enclosure.
- Use caution when handling. The unit is heavy and could cause severe injury or damage if dropped or handled incorrectly.

3. AC CHILLER SPECS AND NOISE LEVELS



1. GLASS TILE ROOF



2. SIGNAGE



INTERIOR VIEW OF FRENCH DOOR



EXTERIOR FRENCH DOOR



DARK DIVIDED WINDOW



WOOD WINDOW BY COORITALIA



INTERIOR SIDE SHOWING HARDWARE

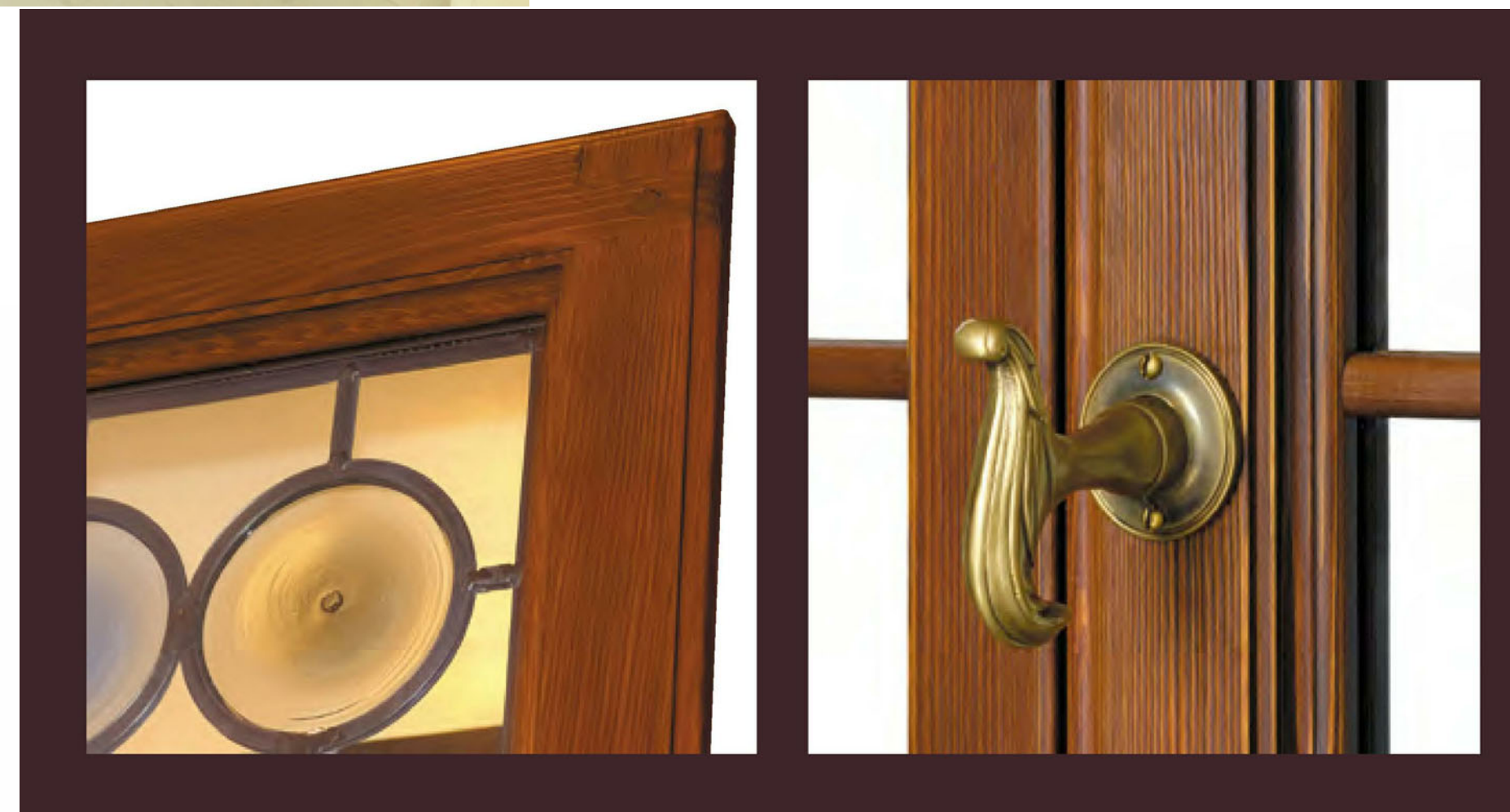


IN SWING CASEMENT



EXTERIOR SIDE

DOUBLE CASEMENT WOOD WINDOW BY COORITALIA



CLOSE UP OF HANDLE AND OBSCURE WINDOW



TOP VIEW OF CASEMENT COMING TOGETHER



Falegnameria Fabbio was founded in San Biagio di Callalta (TV) in 1957 by Gino Fabbio as an artisan wood shop with focus on manufacturing high quality windows and doors. The business has been run since then with creativity and passion; in 1980 Luigino Fabbio enters the family business and starts developing an old world window model that is the perfect replacement in the many renovations of historical buildings in the Veneto area. The historical line is still built today as it was once by using old dove tail techniques, original architectural design, antiquing processes and natural oils and wax. Thank to Luigino's knowledge and passion for history and details over the years Fabbio has developed various lines of product that are used in restoration of buildings from the XVII-XVIII-XIX century.

In 2005 the new Fabbio Design is born with the intent of completing the historical line with a contemporary line more suitable for today's modern architecture. The new innovative Extrema has a frameless design with a "clean" look and is a perfect match for modern design. Fabbio Design has grown over the years adding new lines like the "Fly" that maintains all the quality details of a Fabbio Design product in today's competitive market or the "Museo" which has been developed for a custom project and with its unique bronze exterior clad represent a top of the line product. To manufacture a great window you must start with high quality wood; Fabbio Design uses only the best woods sourced from Forest Stewardship Council (FSC) sources, as well as being FSC certified themselves. The finishing oils, stains, waxes are chosen for both their high quality and eco-friendly characteristics.

In pursuing the philosophy of innovation and on-going commitment to provide a better service to the customer in 2013 Fabbio Design inaugurated the new headquarters in San Biagio di Callalta near Venice - Italy, with over 32,000 sf of manufacturing capabilities, including state of the art CNC machines, and the new Fabbio USA LLC with headquarters in San Francisco, CA

Flexibility is the essence of Fabbio Design. No project is too big or too small, weather our customers want something simple or something highly customized, something antique or something modern we are here to help and we can do it with a quality of craftsmanship that is second to none.

1. HISTORY OF COORITALIA WINDOWS AND THEIR DESIGN

5/30/2018 6:16:01 PM



145 EL CAMINO REAL

201 EL CAMINO REAL

243 EL CAMINO REAL



628 CAMBRIDGE AVENUE

612 CAMBRIDGE AVENUE

5/30/2018 6:27:56 PM



AT&T AND CABLES AT CAMBRIDGE 7.



PG&E POLE MOUNTED TRANSFORMER AND AT&T CABLE POLES & GUY WIRES ON CAMBRIDGE AT 201 EL CAMINO 6.



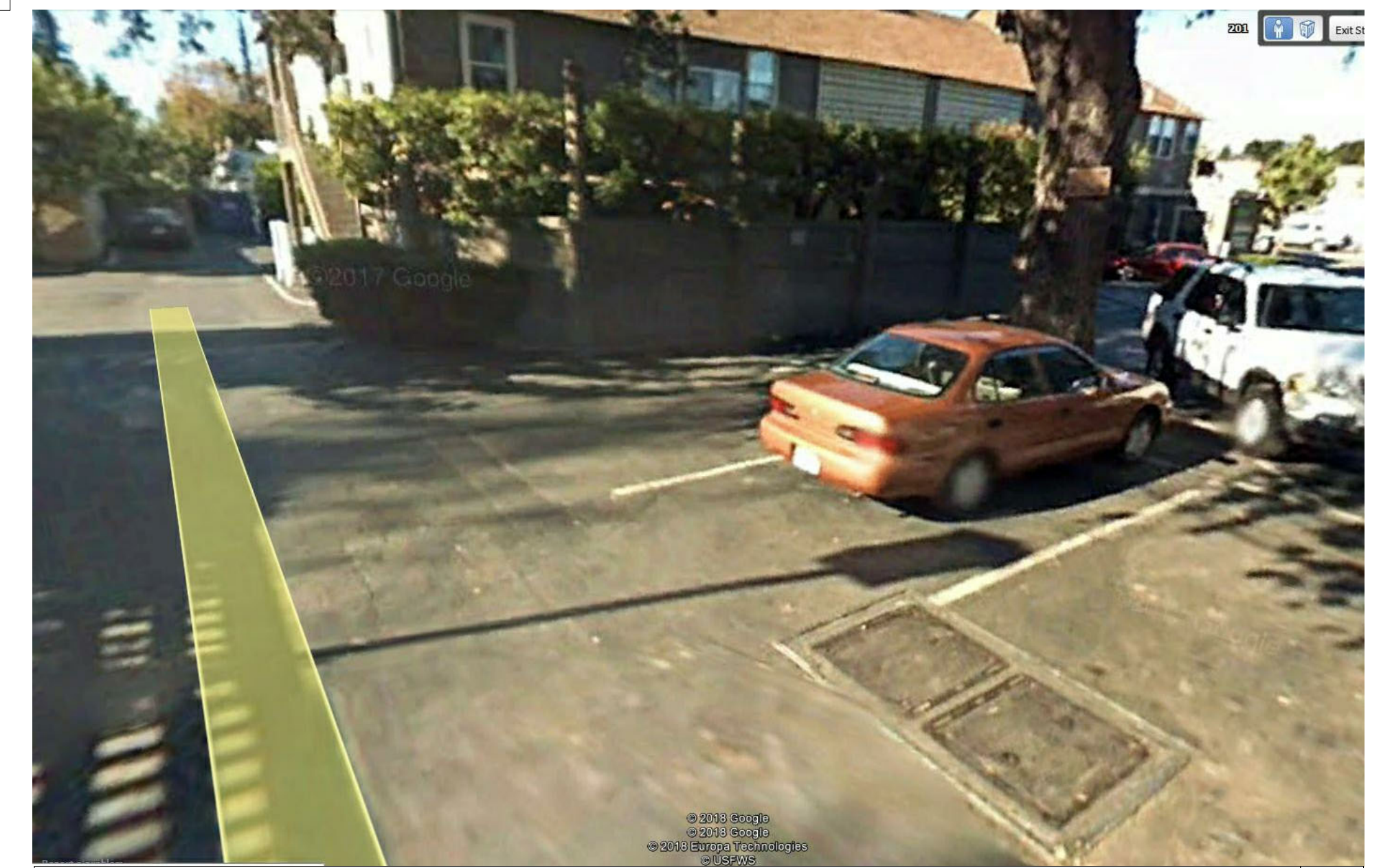
PG&E AND WATER UTILITIES AT EL CAMINO REAL EXISTING BLDGS. 5.



PG&E PAD MOUNTED TRANSFORMER ACROSS CAMBRIDGE FROM 201 EL CAMINO 4.



PG&E UTILITIES AND AT&T CABLE BEHIND EXISTING BUILDING 3.

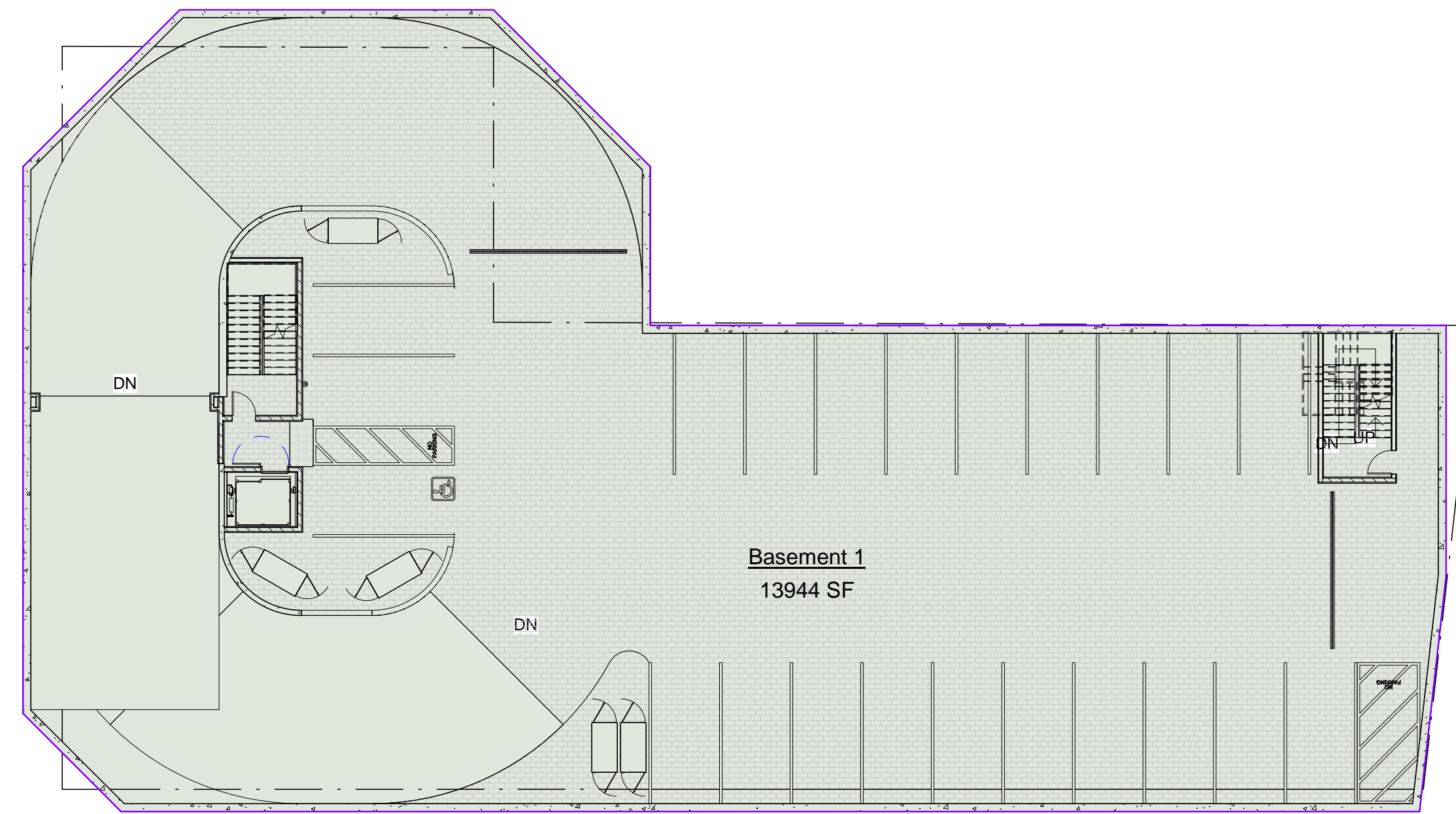


PG&E UTILITIES VIEW IN-GROUND BEHIND EXISTING 201 CAMBRIDGE 2.

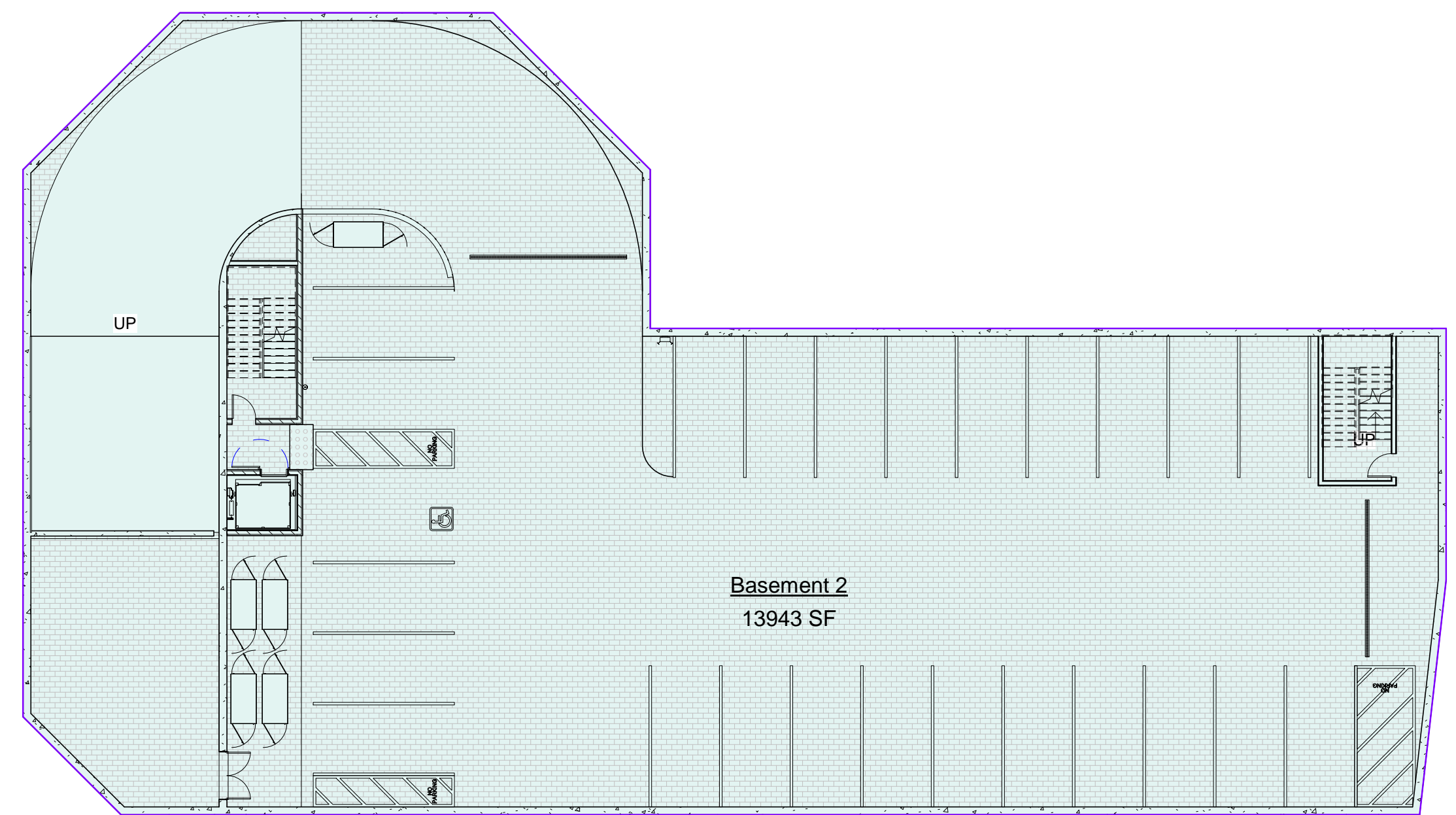


EXISTING CAMBRIDGE AVENUE STREET SCAPE 1.

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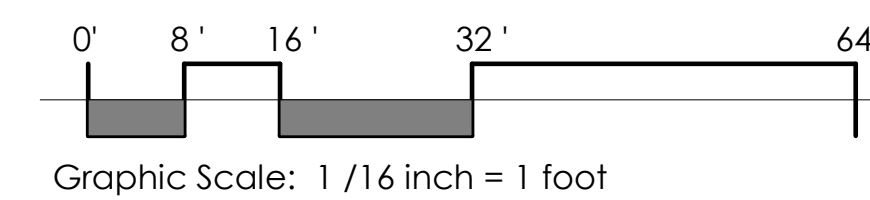


① TOS Basement 1  
1/16" = 1'-0"

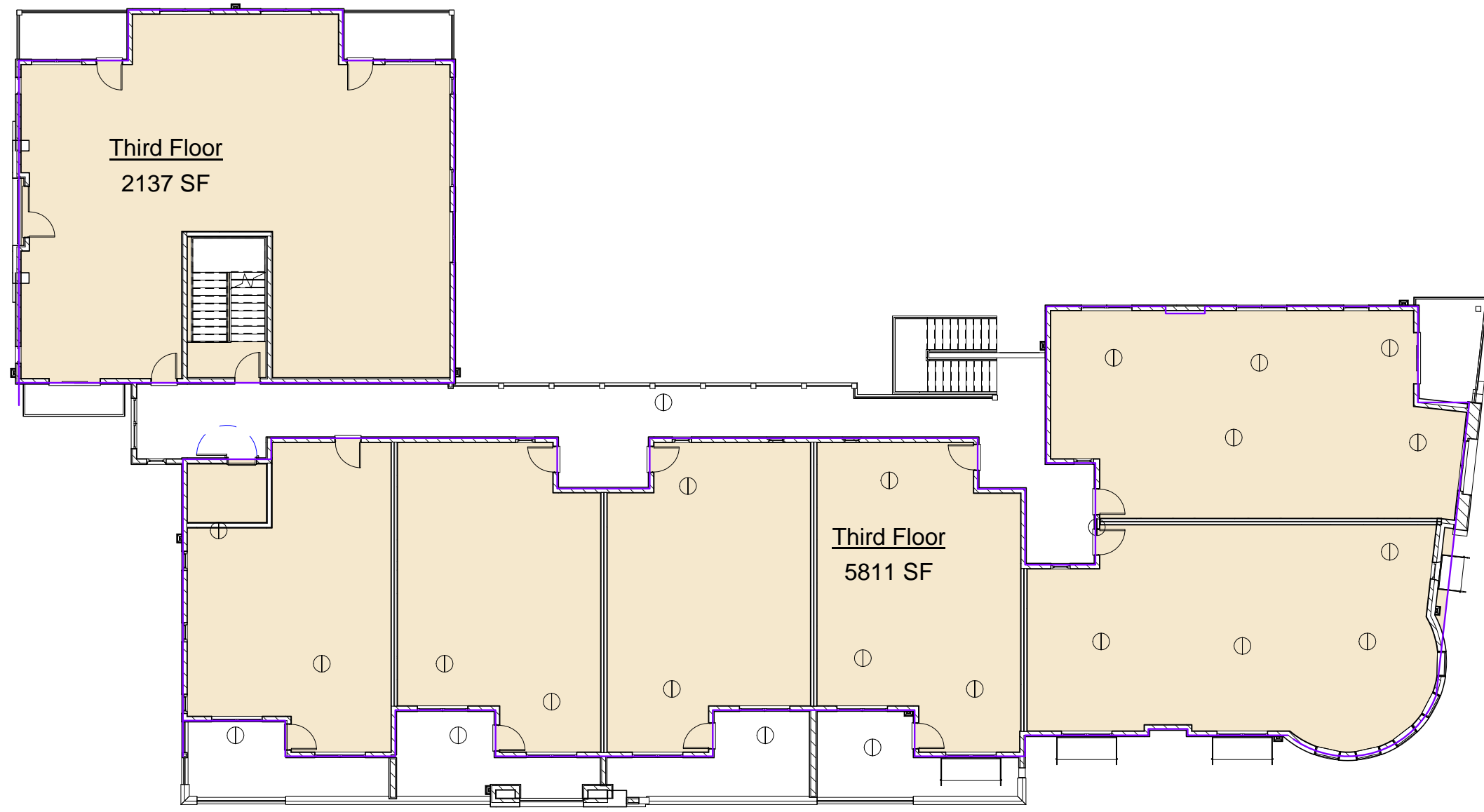


② TOS Basement 2  
1/16" = 1'-0"

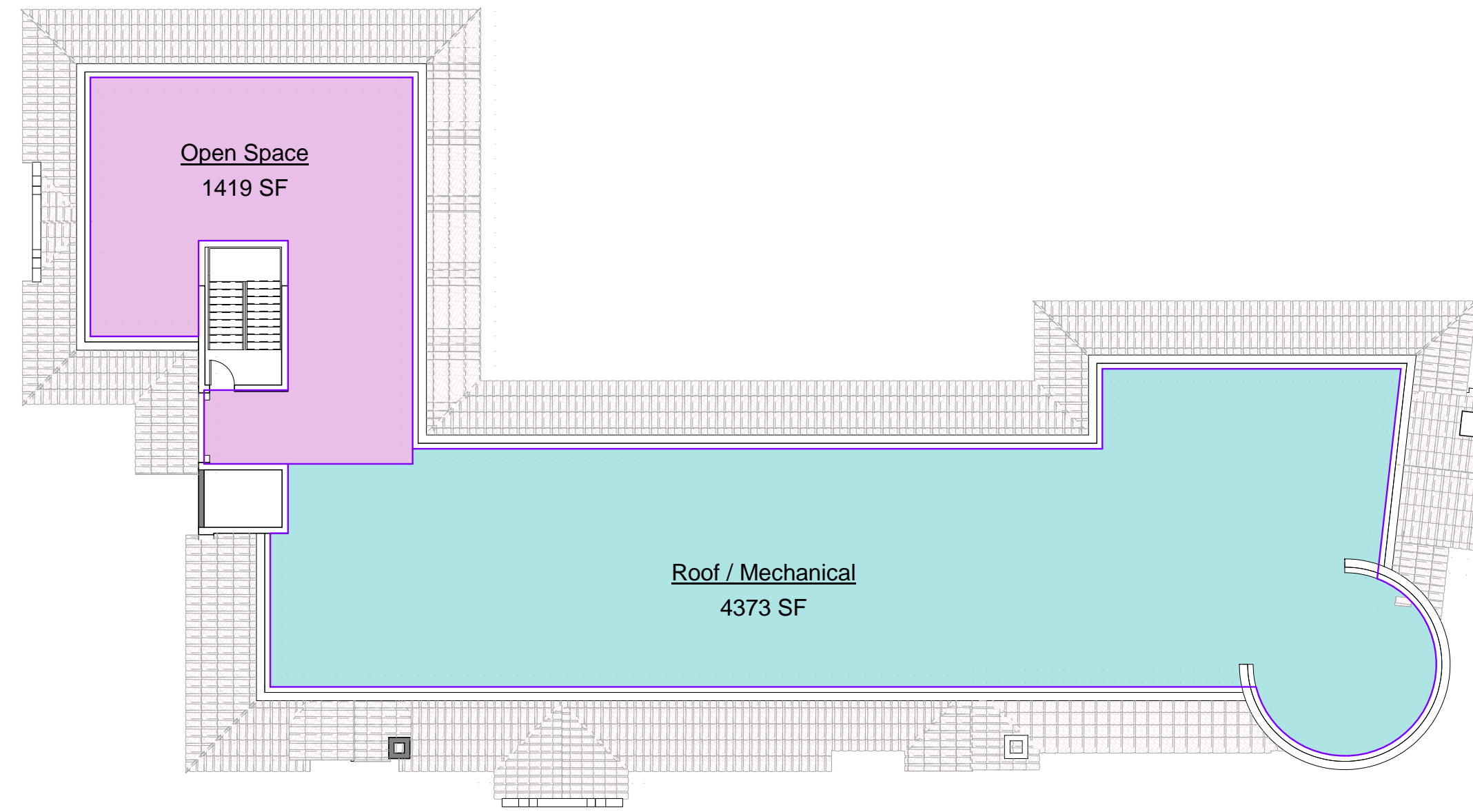
Area Schedule Basement	
Area	Level
13943 SF	TOS Basement 2
13943 SF	
13944 SF	TOS Basement 1
13944 SF	
27887 SF	



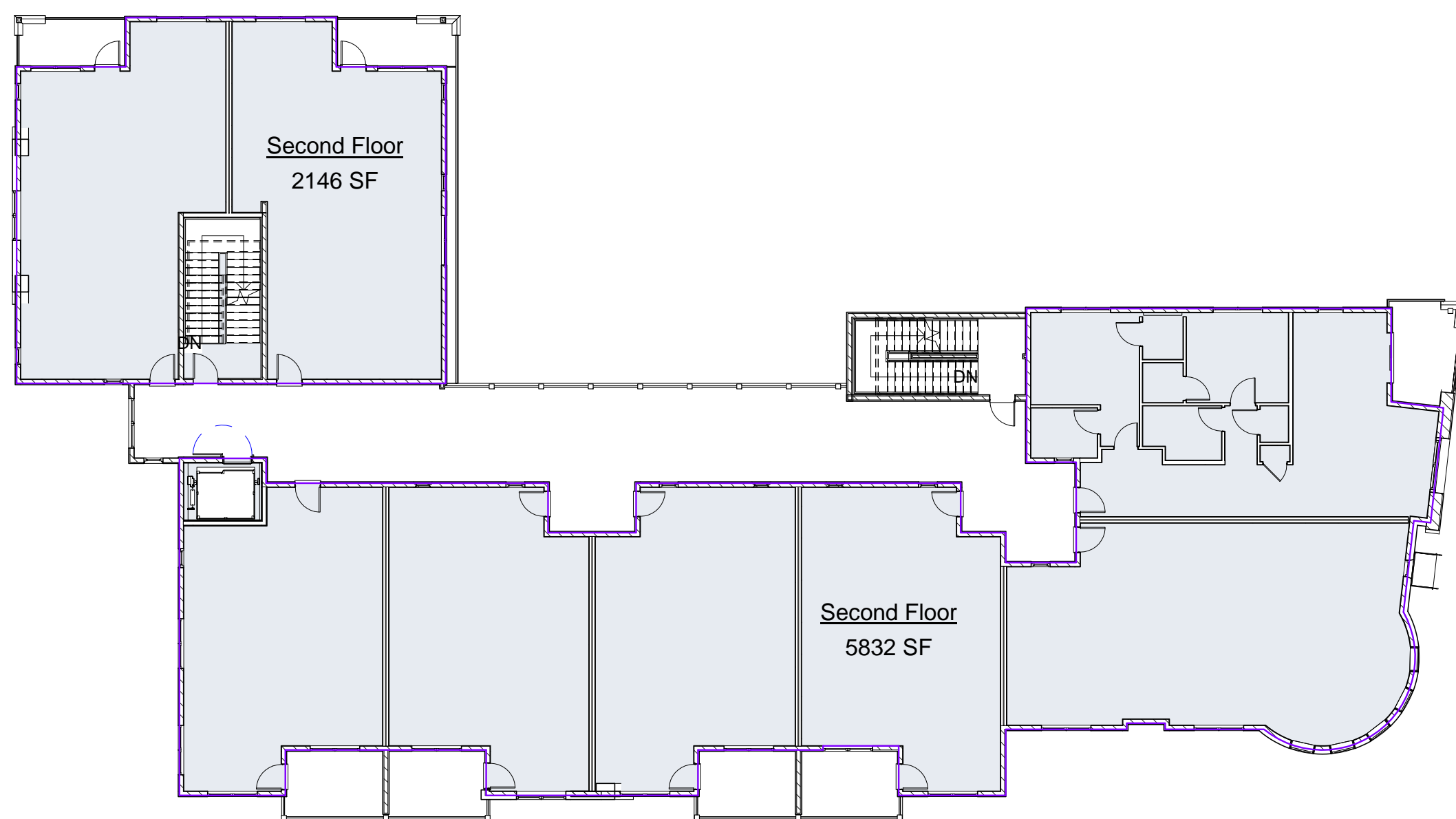
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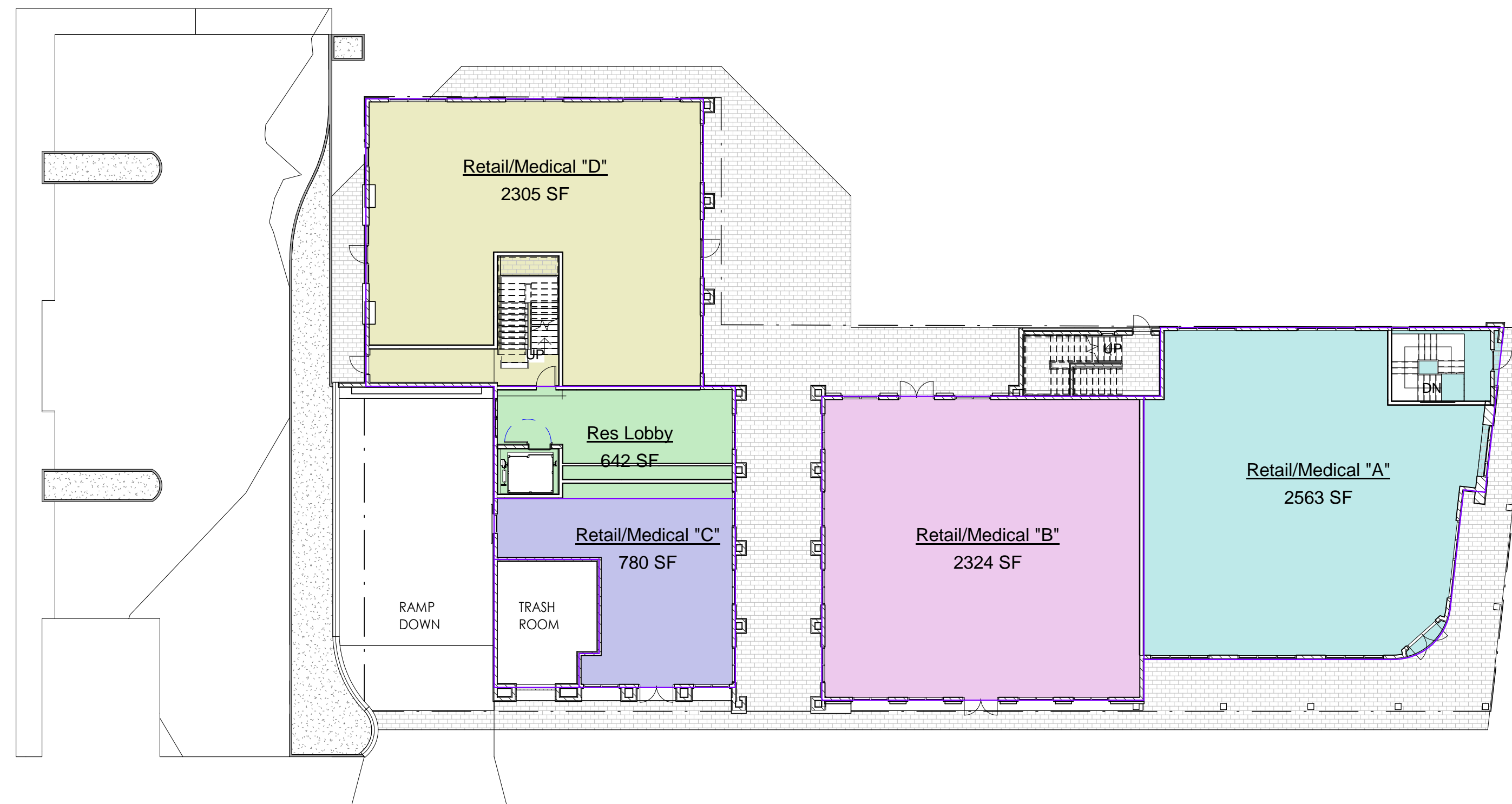
3 TOSF Level 3  
1/16" = 1'-0"



4 Roof  
1/16" = 1'-0"

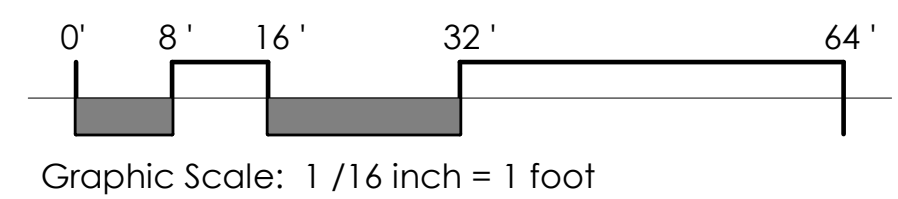


2 TOSF Level 2  
1/16" = 1'-0"

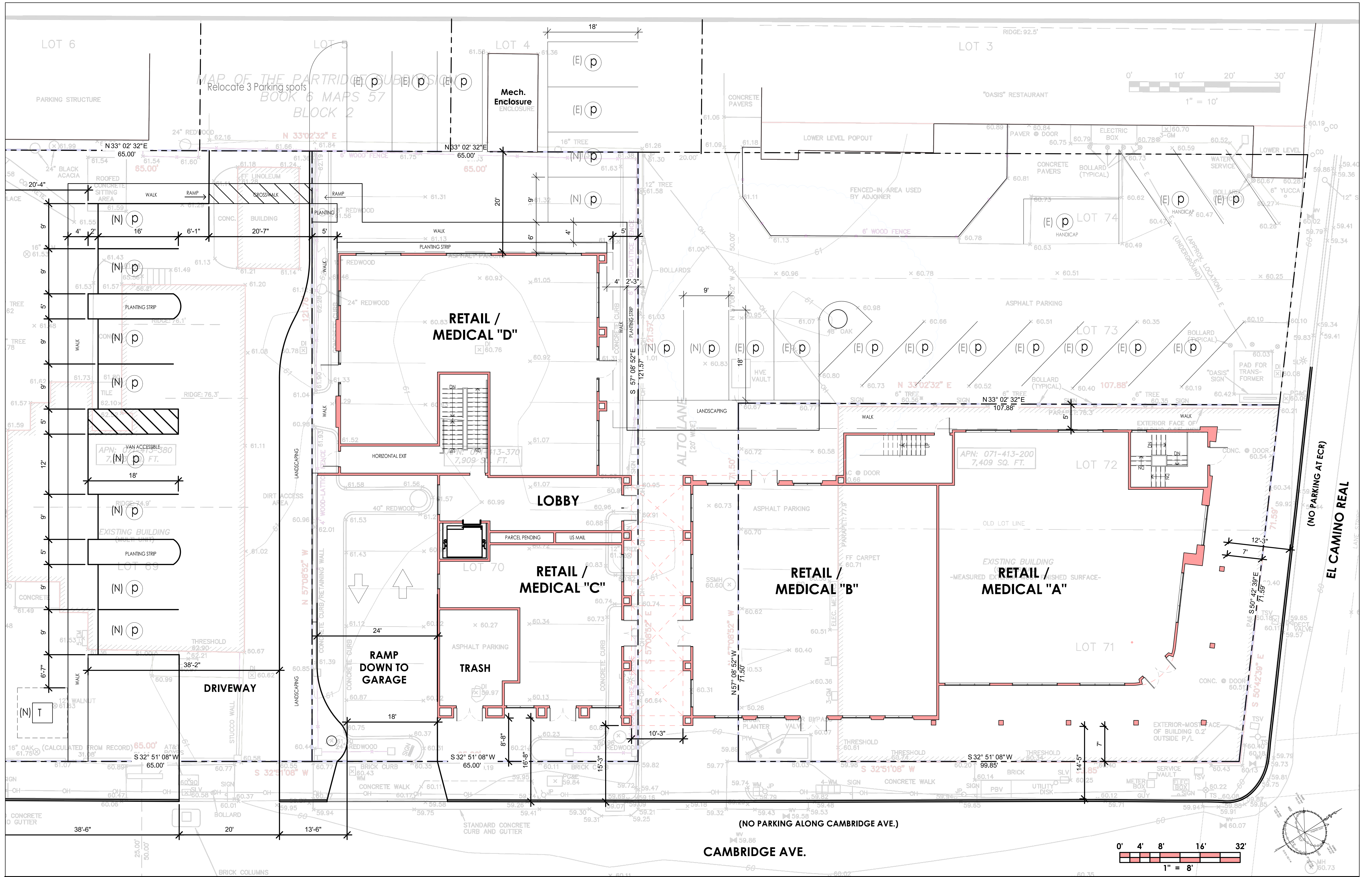


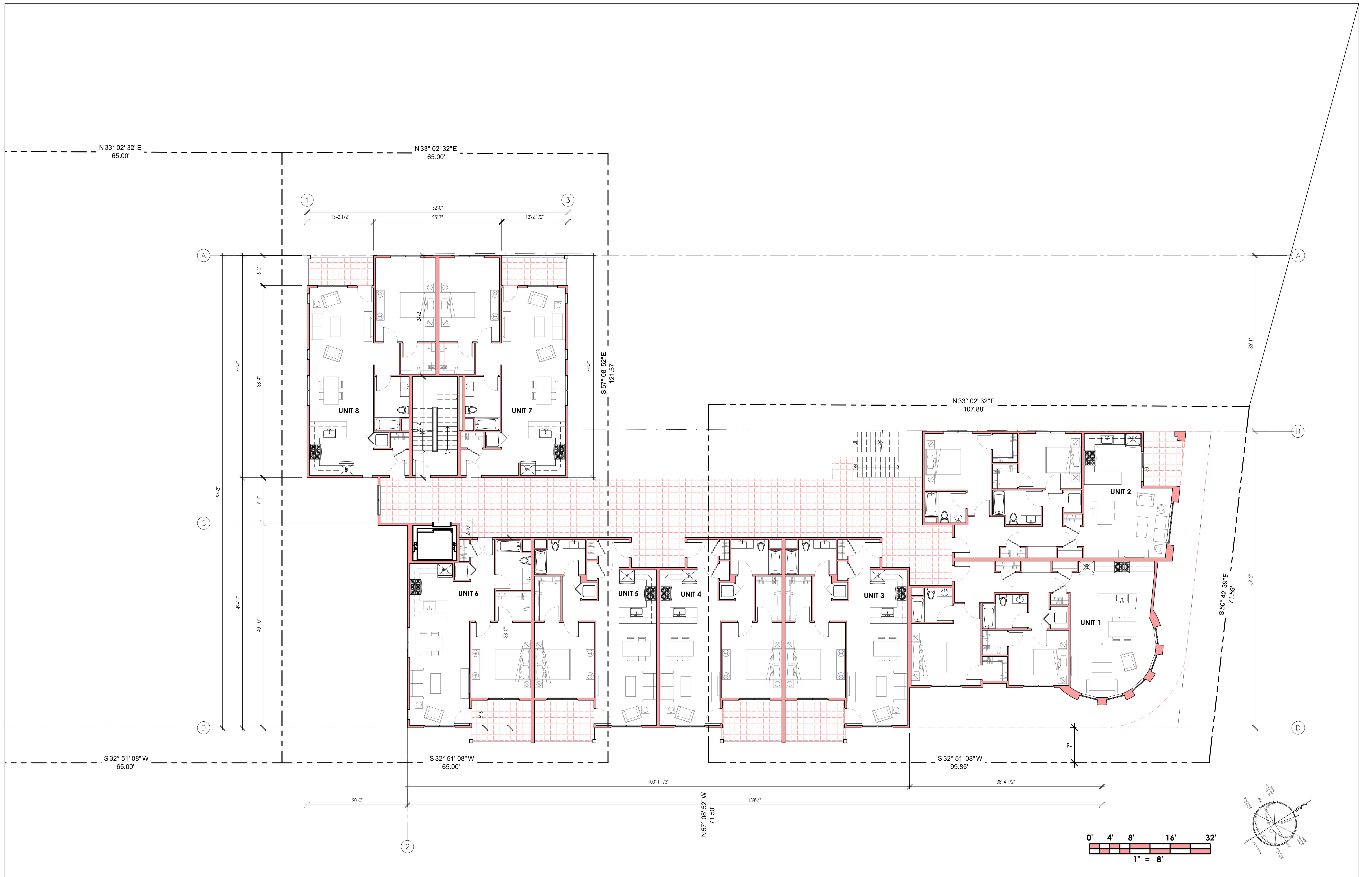
1 TOSF Level 1  
1/16" = 1'-0"

Area Schedule Above Ground	
Name	Area
<b>TOSF Level 1</b>	
Res Lobby	642 SF
Retail/Medical "A"	2563 SF
Retail/Medical "B"	2324 SF
Retail/Medical "C"	780 SF
Retail/Medical "D"	2305 SF
	8615 SF
<b>TOSF Level 2</b>	
Second Floor	2146 SF
Second Floor	5832 SF
	7979 SF
<b>TOSF Level 3</b>	
Third Floor	5811 SF
Third Floor	2137 SF
	7948 SF
<b>Roof</b>	
Open Space	1419 SF
Roof / Mechanical	4373 SF
	5792 SF
<b>Grand total</b>	<b>30334 SF</b>



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**REFERENCES**

157'08" EAST, OF UNIVERSITY ROAD, FORMERLY  
TOWN ON THAT CERTAIN SUBDIVISION MAP  
"2 STANFORD PARK" WHICH WAS FILED FOR  
OF MAPS PAGE 46, SAN MATEO COUNTY  
D AS THE BASIS OF BEARINGS FOR THIS SURVEY.

HEREON ARE BASED UPON NGVD 1929 ("MEAN

ALTO LANE

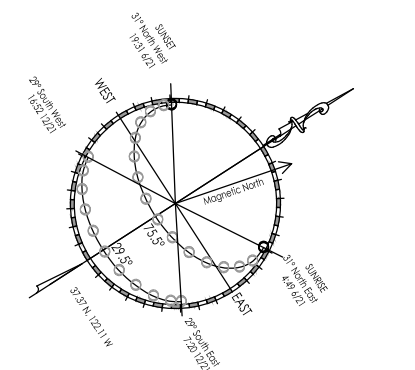
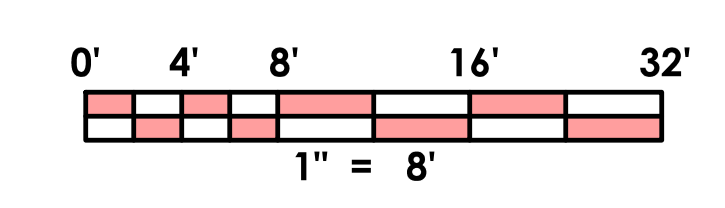
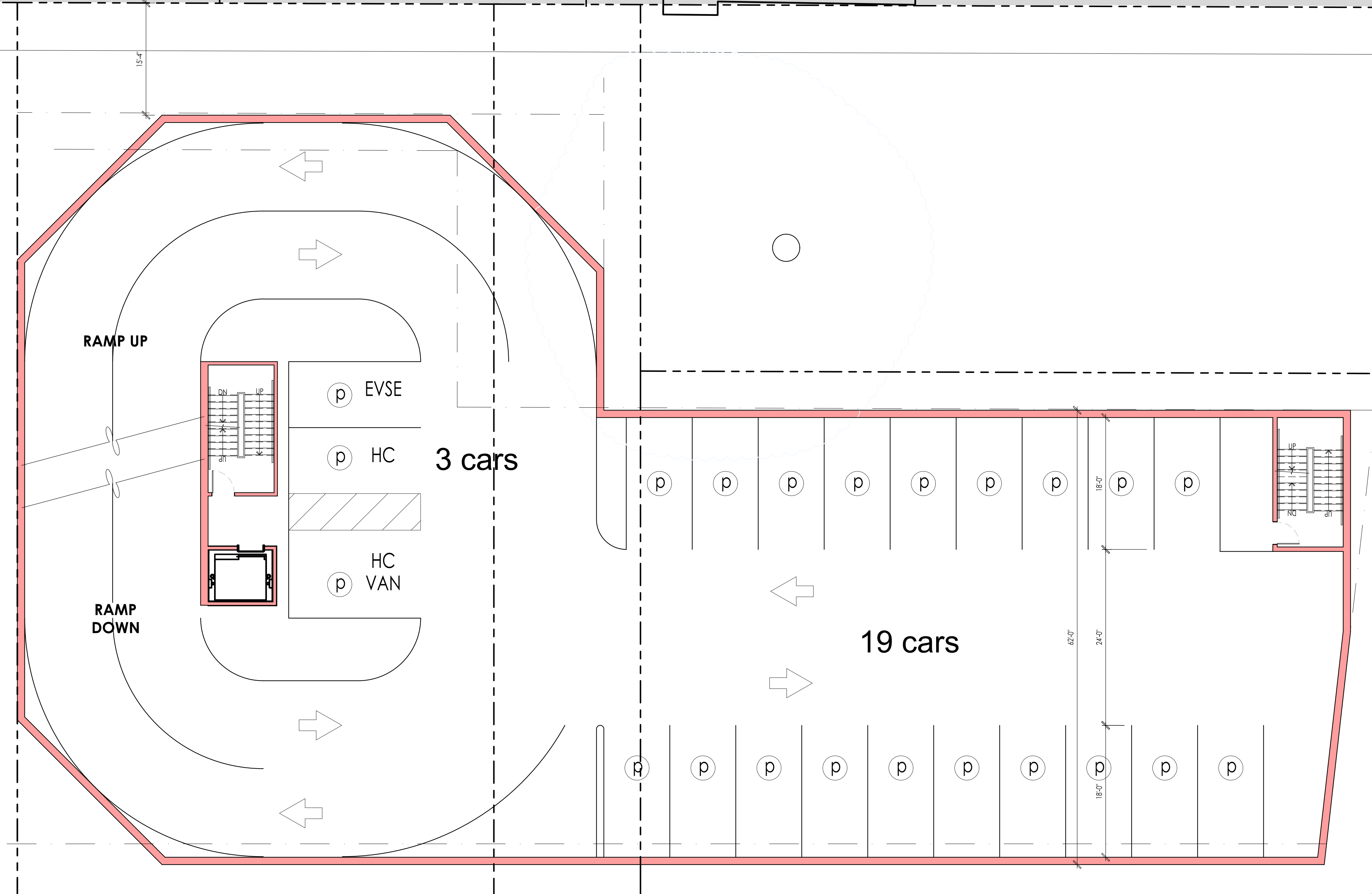
UTILITIES SHOWN HEREON TAKEN FROM VISUAL SURFACE EVIDENCE AND SHOULD BE  
CONSIDERED AS APPROXIMATE ONLY. ACTUAL LOCATIONS OF UTILITIES MAY VARY. TRUE  
LOCATION OF UTILITIES CAN ONLY BE OBTAINED BY EXPOSING THE UTILITY.

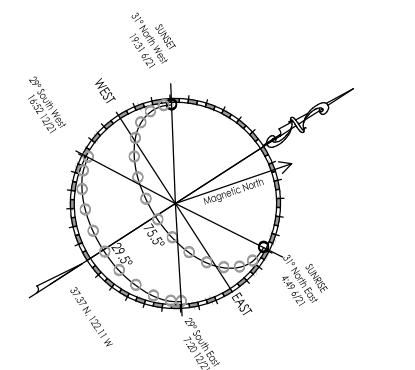
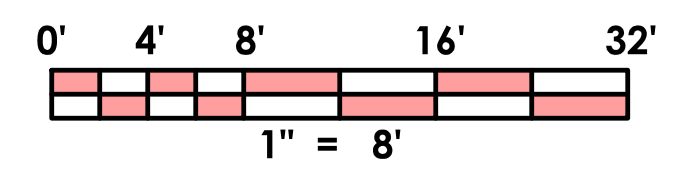
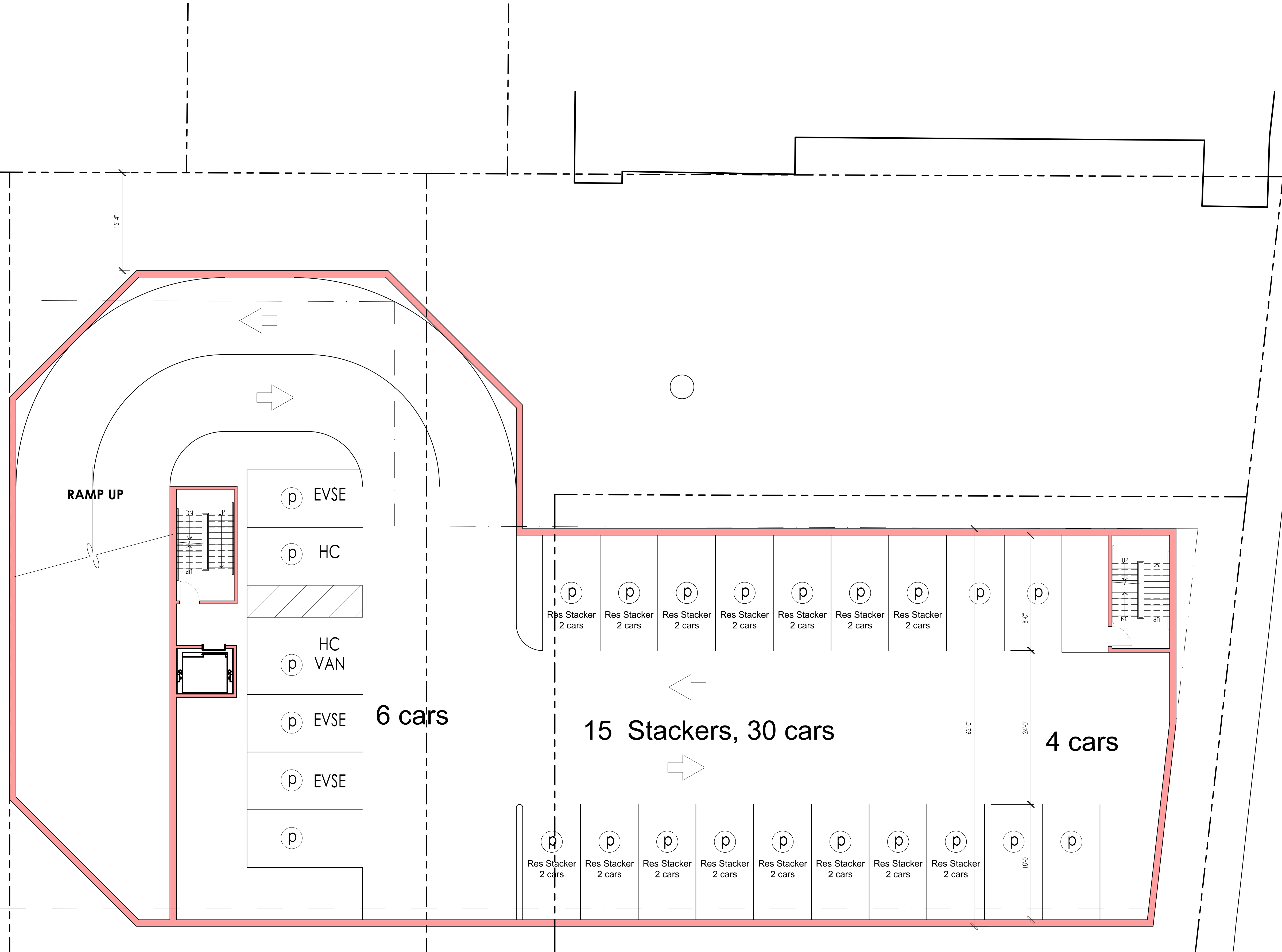
TREE LOCATIONS SHOWN HEREON ARE SHOWN SYMBOLICALLY WITH SYMBOL SIZES BASED UPON  
TRUNK DIAMETER AT CHEST HEIGHT, AT THE LOCATION WHERE THE TREE ENTERS THE GROUND  
SURFACE. LOCATIONS AND SIZES OF TREE TRUNKS CAN ONLY BE CONSIDERED APPROXIMATE  
UNLESS OTHERWISE STATED ON THE MAP. TREES OF TRUNK DIAMETER SIZES OF 6 INCHES OR  
GREATER WERE LOCATED BY THE FIELD CREW.

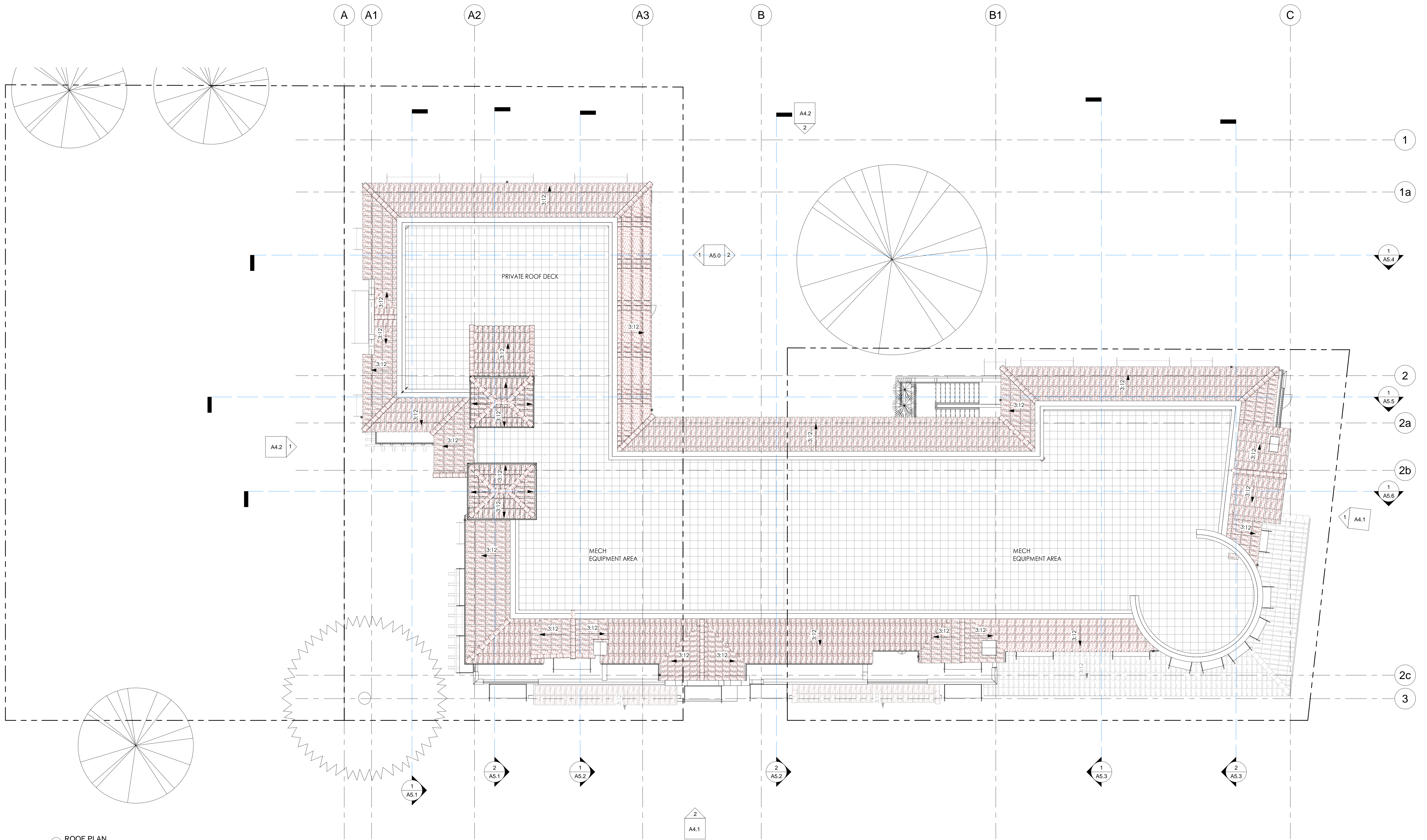
SURVEY PERFORMED BY: BGT LAND SURVEYING  
www.bgtsurveying.com

DATE OF FIELD SURVEY: AUGUST, 2015  
JOB NUMBER: 15-119

- C/L CENTERLINE /
- CMF CORRUGATED METAL PIPE
- CI CAST IRON PIPE
- CO CLEAN OUT BOX
- CP SURVEY CONTROL POINT
- CTV CABLE TELEVISION LINE
- DI DROP INLET
- EM ELECTRIC METER
- EV ELECTRIC VAULT
- FF FINISHED FLOOR
- FL FLOWLINE
- FH FIRE HYDRANT
- GM GAS METER
- GRD GROUND
- GV GAS VALVE
- HCR HANDICAP RAMP
- HVE HIGH-VOLT ELECTRIC
- INV INVERT
- IP IRON PIPE
- JP JOINT POLE
- KV KLOVOLT







1 ROOF PLAN  
1/8" = 1'-0"

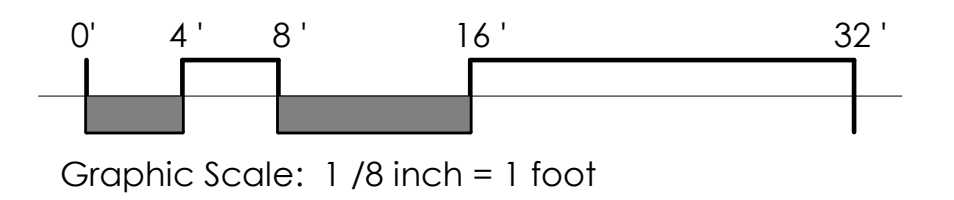
5/30/2018 4:20:01 PM



① ELEVATIONS - EL CAMINO  
1/8" = 1'-0"



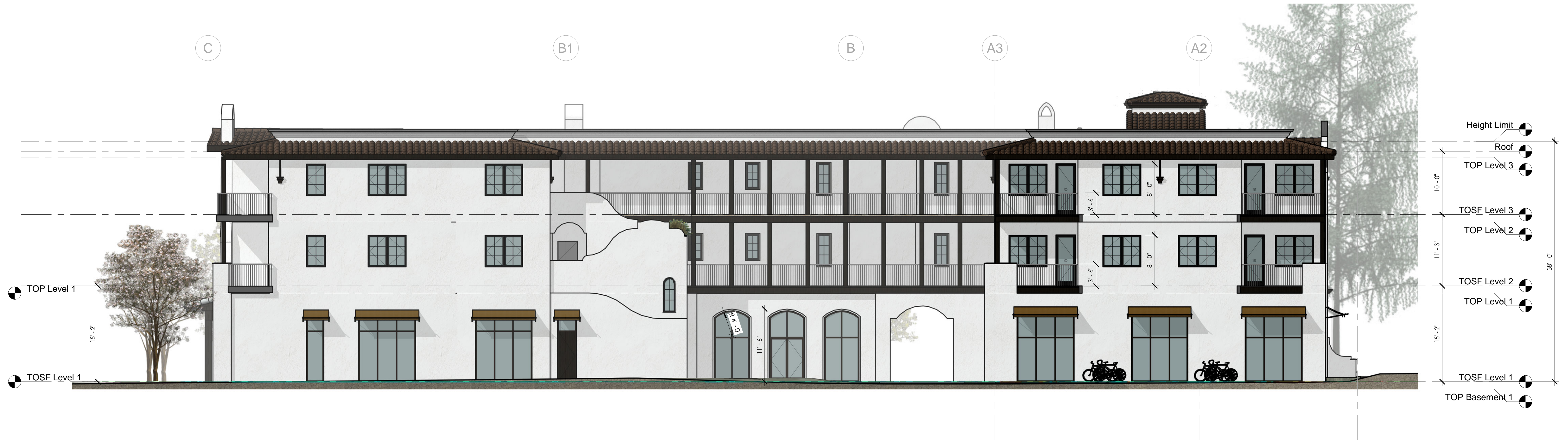
② ELEVATIONS - CAMBRIDGE  
1/8" = 1'-0"



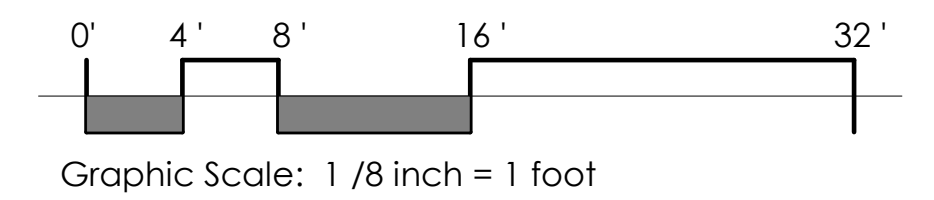
5/30/2018 4:20:49 PM



① ELEVATIONS - ALTO LANE  
1/8" = 1'-0"



② ELEVATIONS - OASIS  
1/8" = 1'-0"



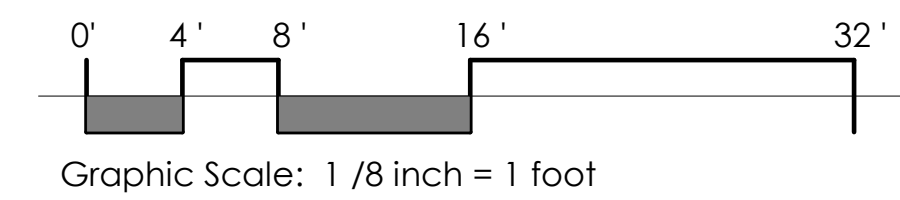
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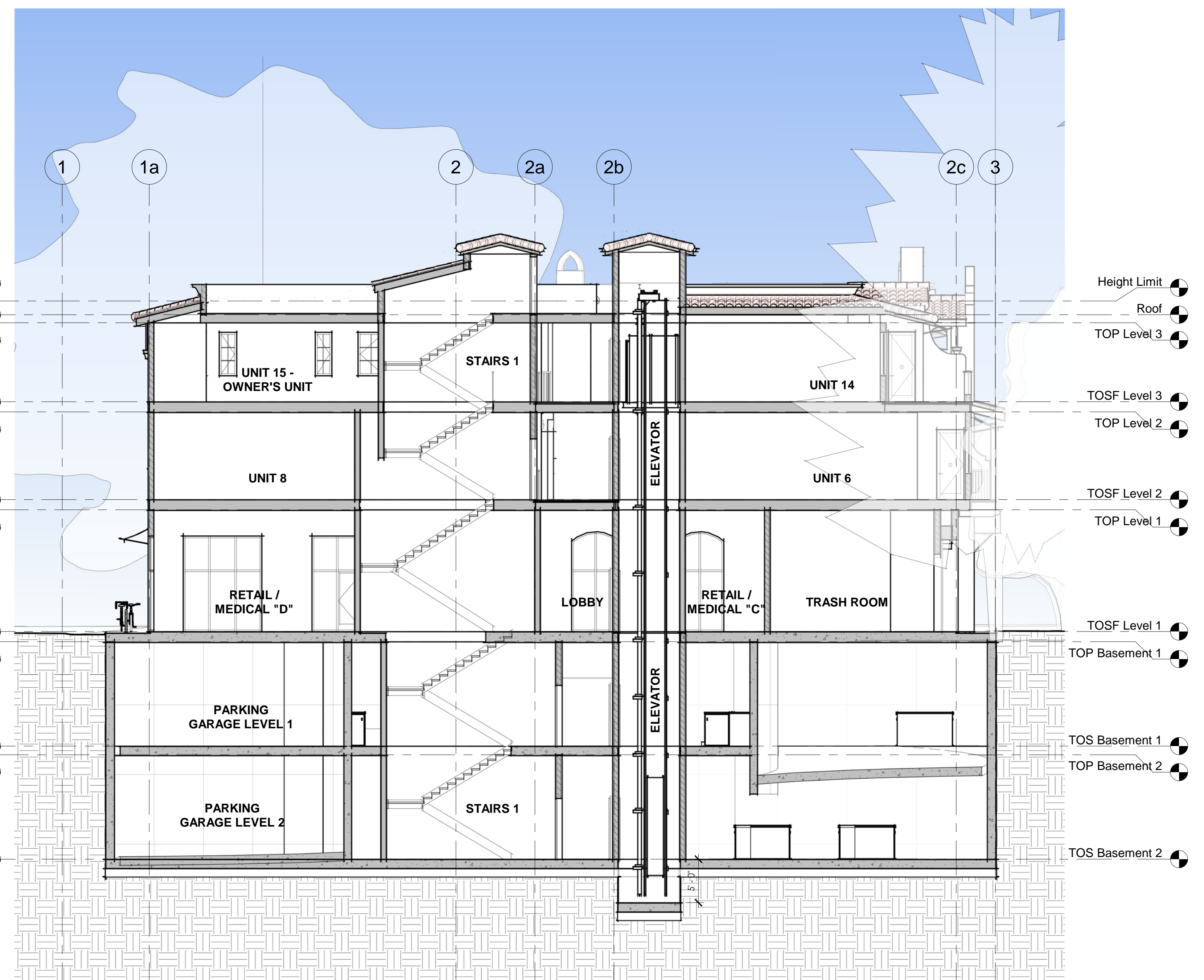
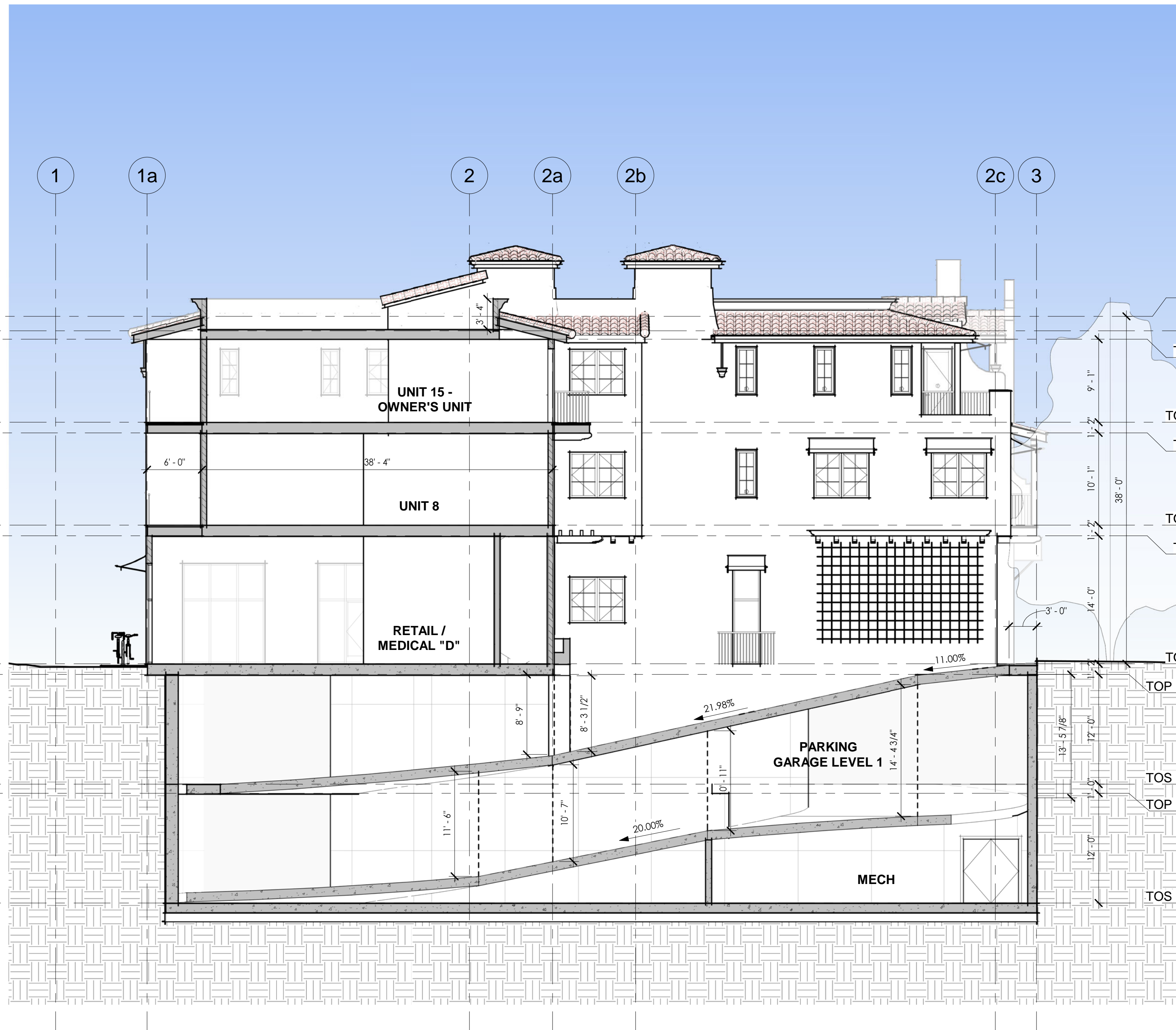
① ELEVATIONS - PED PASSAGE  
1/8" = 1'-0"



② ELEVATIONS - PED PASSAGE2  
1/8" = 1'-0"



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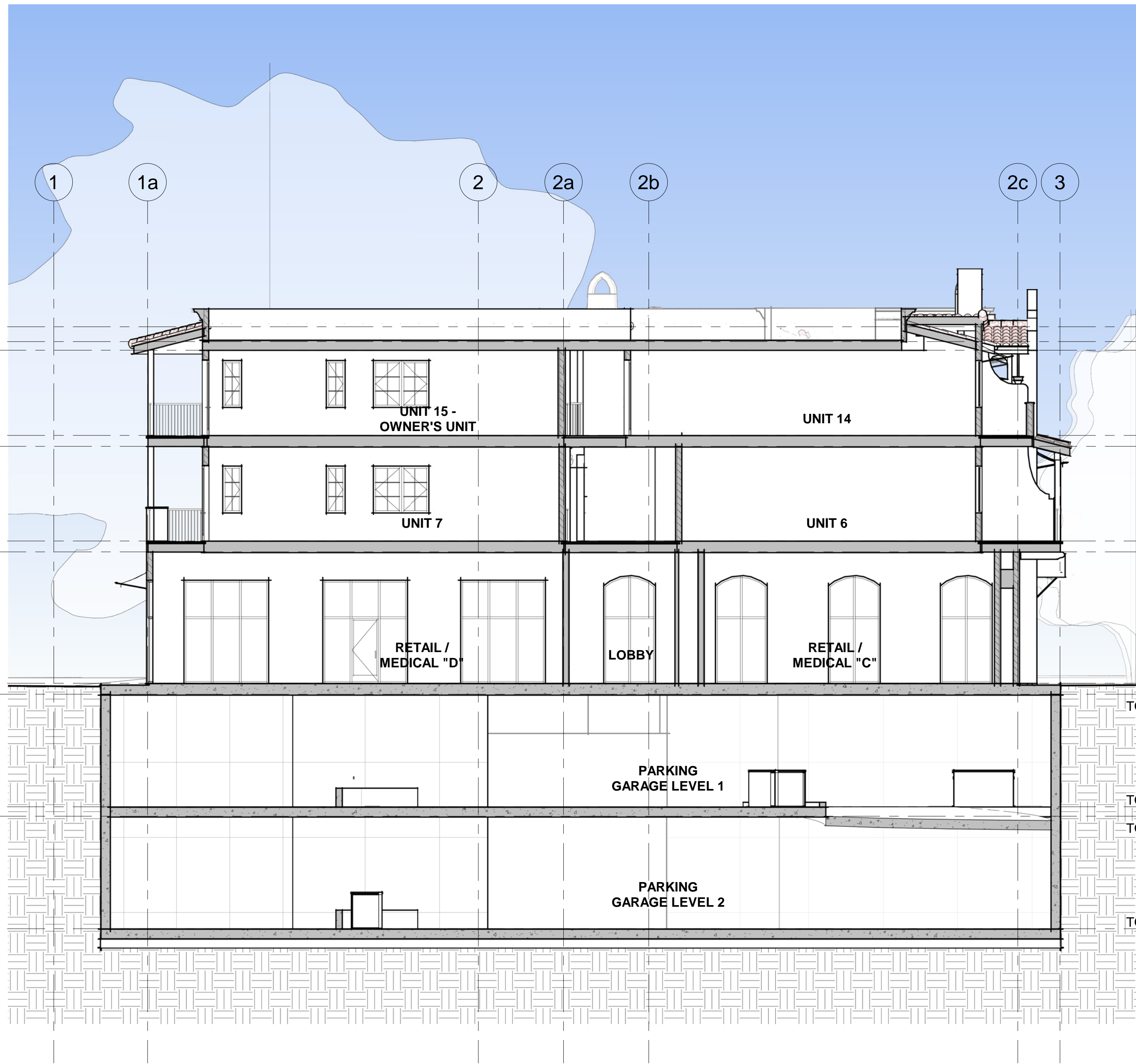


① SECTION 1 - GARAGE RAMP  
1/8" = 1'-0"

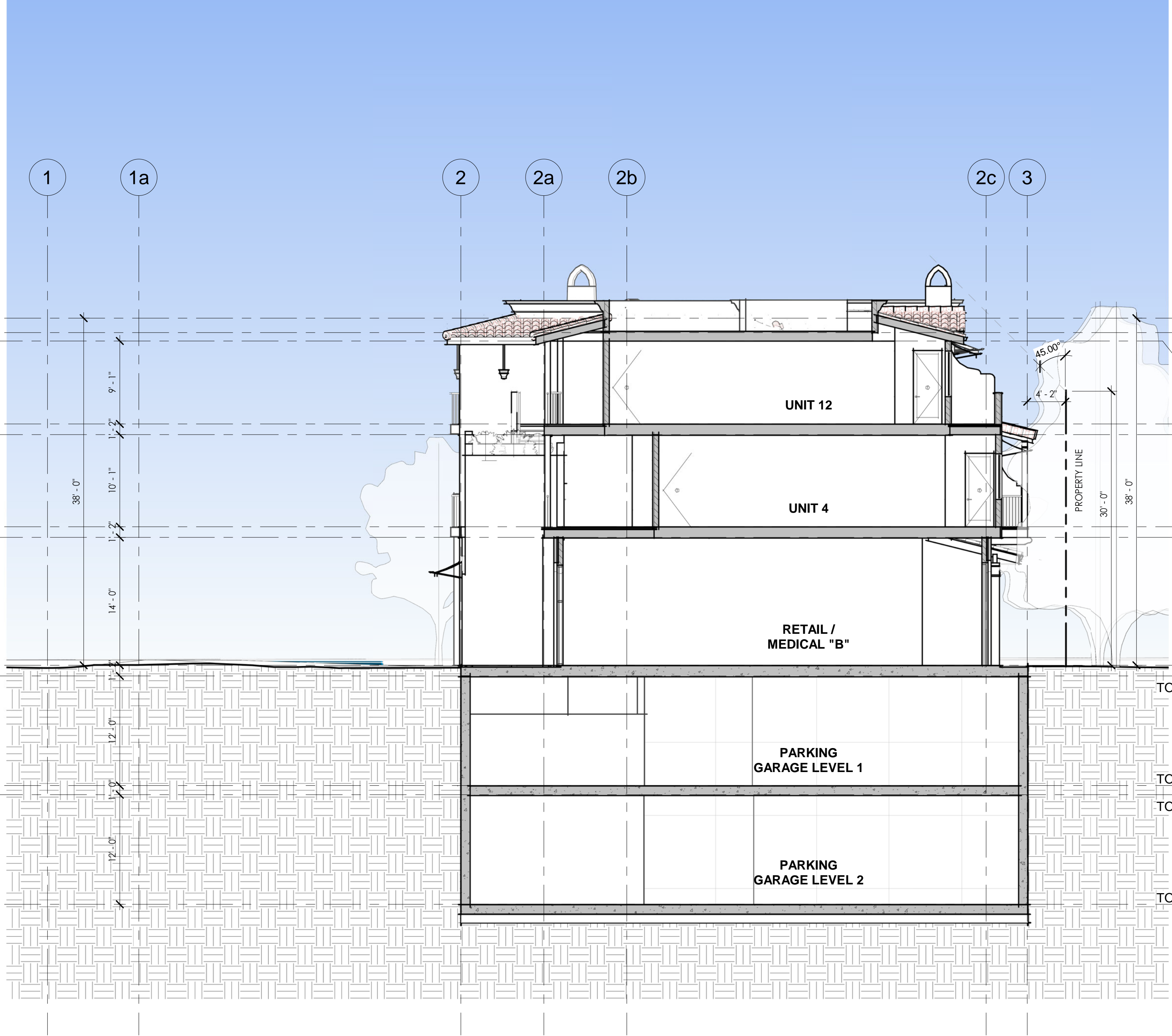
② SECTION 2  
1/8" = 1'-0"

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Height Limit Roof  
 TOP Level 3  
 TOSF Level 3  
 TOP Level 2  
 TOSF Level 2  
 TOP Level 1  
 TOSF Level 1  
 TOP Basement 1  
 TOS Basement 1  
 TOP Basement 2  
 TOS Basement 2

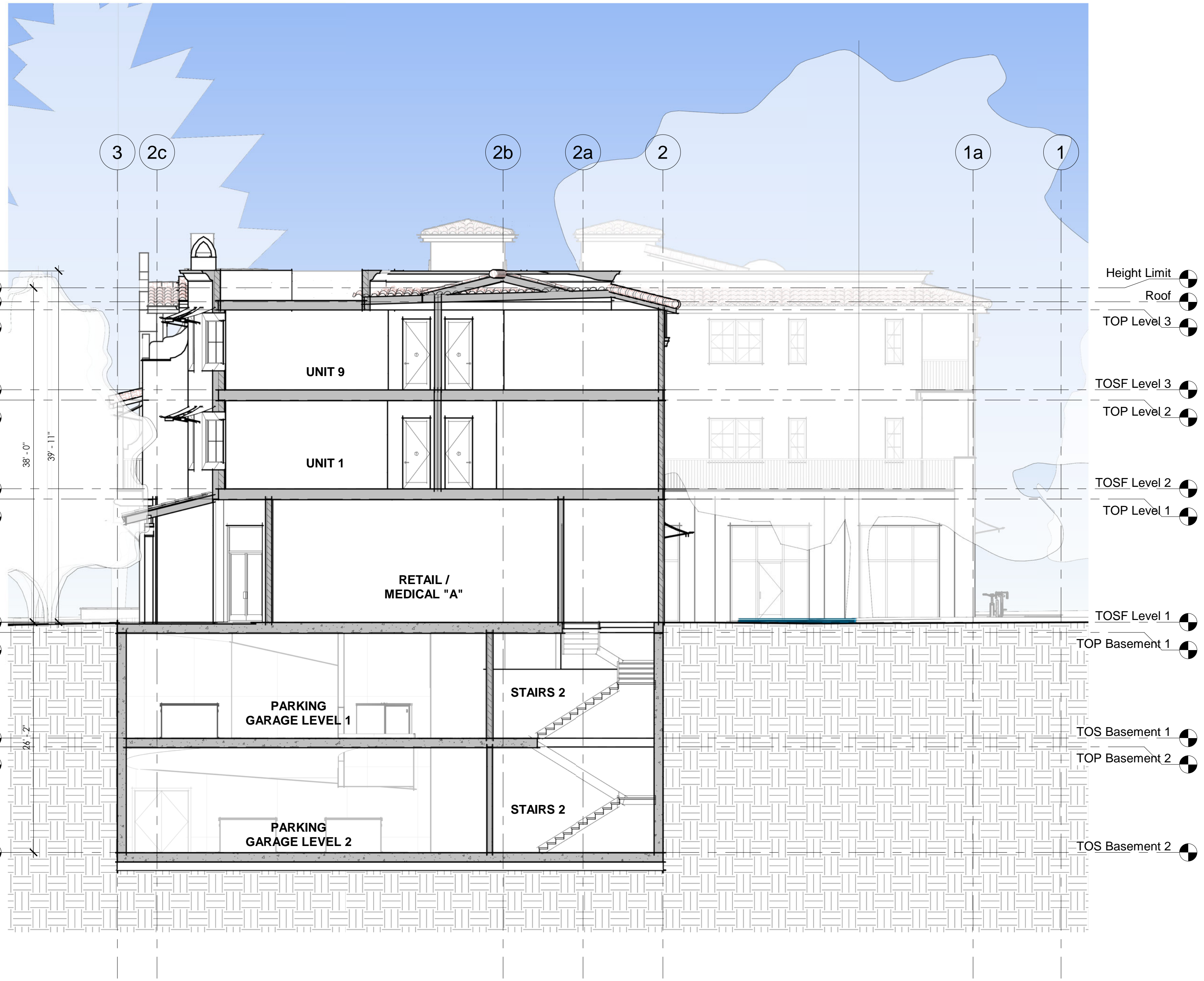
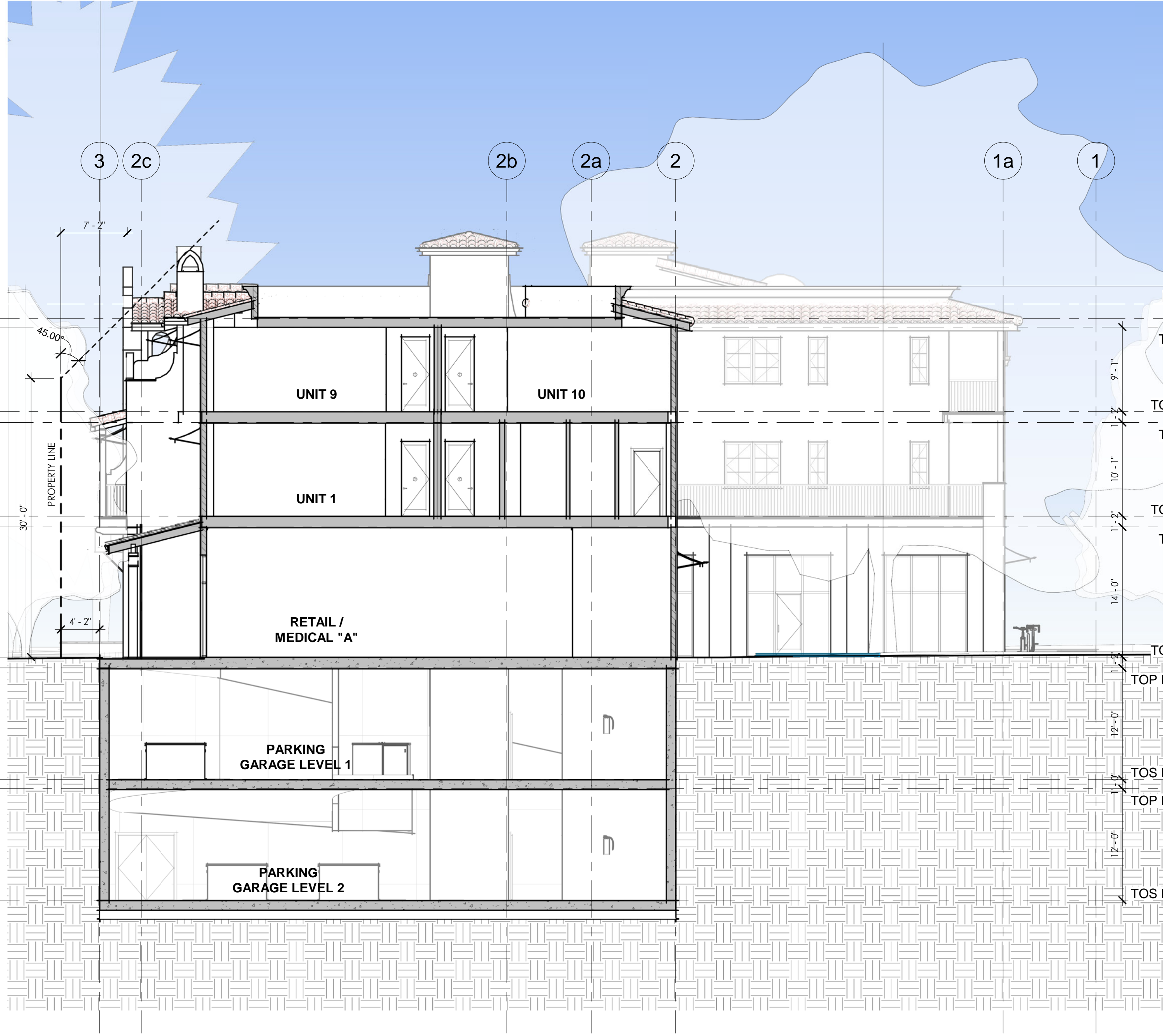


Height Limit Roof  
 TOP Level 3  
 TOSF Level 3  
 TOP Level 2  
 TOSF Level 2  
 TOP Level 1  
 TOSF Level 1  
 TOP Basement 1  
 TOS Basement 1  
 TOP Basement 2  
 TOS Basement 2

1 SECTION 3  
 1/8" = 1'-0"

2 SECTION 4  
 1/8" = 1'-0"

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1 SECTION 5  
1/8" = 1'-0"

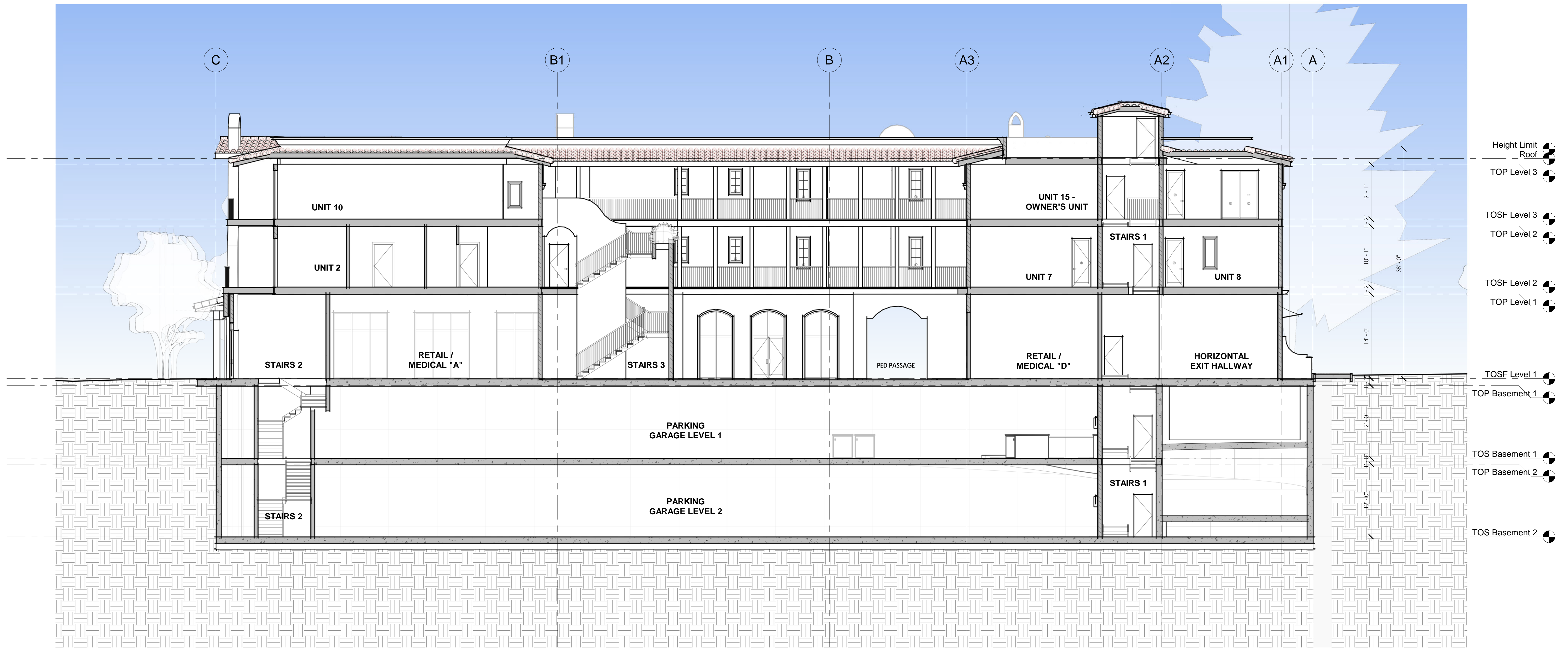
2 SECTION 6  
1/8" = 1'-0"

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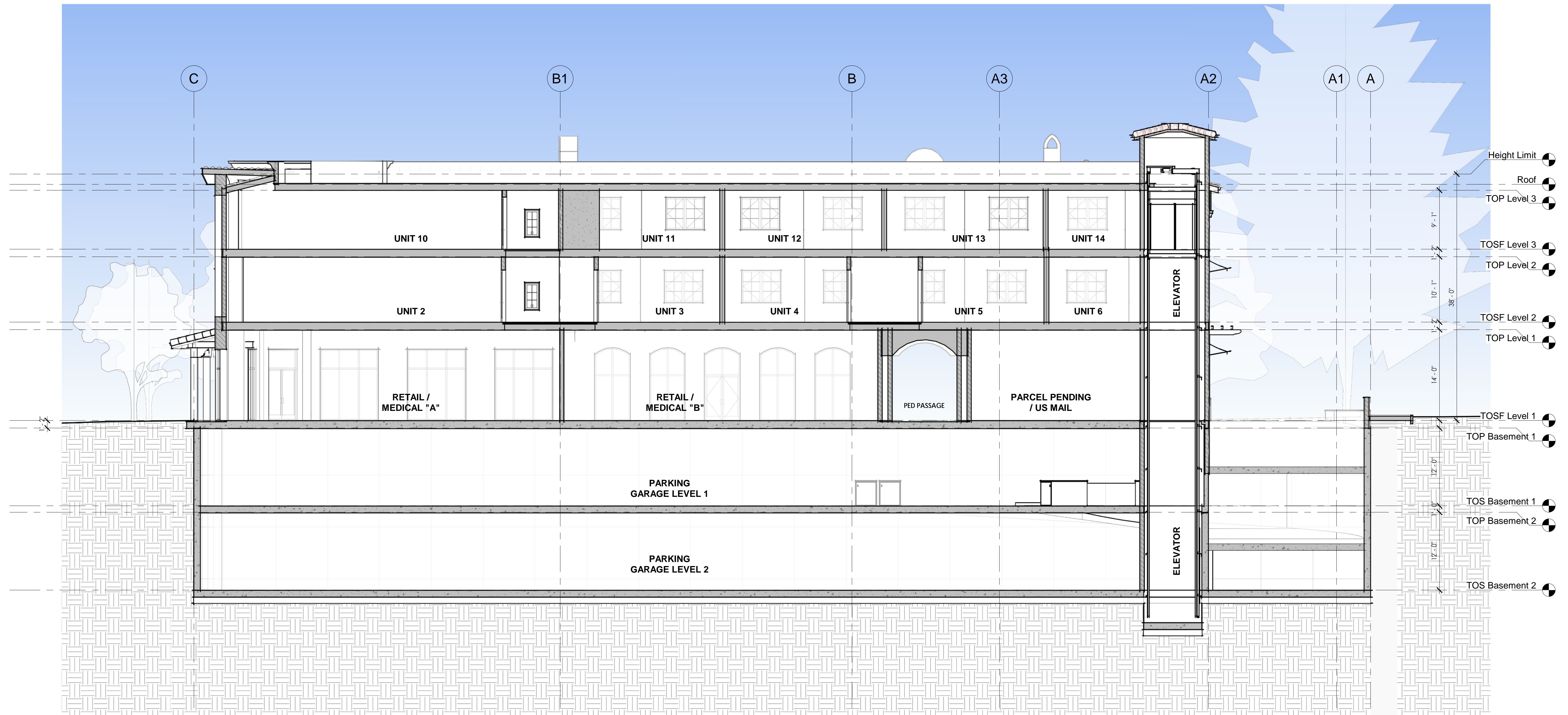
SECTION 7  
1/8" = 1'-0"

5/30/2018 6:24:16 PM



1 SECTION 8  
1/8" = 1'-0"

5/30/2018 6:24:41 PM



1 SECTION 9  
1/8" = 1'-0"

5/30/2018 6:24:56 PM











# 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

## RESIDENTIAL MANDATORY MEASURES, SHEET 2 (INCLUDING JANUARY 1, 2017 ERRATA)

<p style="text-align: center; font-weight: bold; font-size: small;">INSPECTOR SIGNOFF</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <caption>TABLE 4.504.2 - SEALANT VOC LIMIT (Less Water and Less Exempt Compounds in Grams per Liter)</caption> <thead> <tr> <th>SEALANTS</th> <th>CURRENT VOC LIMIT</th> </tr> </thead> <tbody> <tr><td>ARCHITECTURAL</td><td>250</td></tr> <tr><td>MARINE DECK</td><td>760</td></tr> <tr><td>NONMEMBRANE ROOF</td><td>300</td></tr> <tr><td>ROADWAY</td><td>250</td></tr> <tr><td>SINGLE-PLY ROOF MEMBRANE</td><td>450</td></tr> <tr><td>OTHER</td><td>420</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <caption>TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS<sup>2,3</sup></caption> <thead> <tr> <th>GRAMS OF VOC PER LITER OF COATING, LESS WATER &amp; LESS EXEMPT COMPOUNDS</th> <th>COATING CATEGORY</th> <th>CURRENT VOC LIMIT</th> </tr> </thead> <tbody> <tr><td>FLAT COATINGS</td><td></td><td>50</td></tr> <tr><td>NON-FLAT COATINGS</td><td></td><td>100</td></tr> <tr><td>NONFLAT-HIGH GLOSS COATINGS</td><td></td><td>150</td></tr> <tr><td colspan="3"><b>SPECIALTY COATINGS</b></td></tr> <tr><td>ALUMINUM ROOF COATINGS</td><td></td><td>400</td></tr> <tr><td>BASEMENT SPECIALTY COATINGS</td><td></td><td>400</td></tr> <tr><td>BITUMINOUS ROOF COATINGS</td><td></td><td>50</td></tr> <tr><td>BITUMINOUS ROOF PRIMERS</td><td></td><td>350</td></tr> <tr><td>BOND BREAKERS</td><td></td><td>350</td></tr> <tr><td>CONCRETE CURING COMPOUNDS</td><td></td><td>350</td></tr> <tr><td>CONCRETE/MASONRY SEALERS</td><td></td><td>100</td></tr> <tr><td>DRIVEWAY SEALERS</td><td></td><td>50</td></tr> <tr><td>DRY FOG COATINGS</td><td></td><td>150</td></tr> <tr><td>FAUX FINISHING COATINGS</td><td></td><td>350</td></tr> <tr><td>FIRE RESISTIVE COATINGS</td><td></td><td>350</td></tr> <tr><td>FLOOR COATINGS</td><td></td><td>100</td></tr> <tr><td>FORM-RELEASE COMPOUNDS</td><td></td><td>250</td></tr> <tr><td>GRAPHIC ARTS COATINGS (SIGN PAINTS)</td><td></td><td>500</td></tr> <tr><td>HIGH TEMPERATURE COATINGS</td><td></td><td>420</td></tr> <tr><td>INDUSTRIAL MAINTENANCE COATINGS</td><td></td><td>250</td></tr> <tr><td>LOW SOLIDS COATINGS<sup>1</sup></td><td></td><td>120</td></tr> <tr><td>MAGNESITE CEMENT COATINGS</td><td></td><td>450</td></tr> <tr><td>MASTIC TEXTURE COATINGS</td><td></td><td>100</td></tr> <tr><td>METALLIC PIGMENTED COATINGS</td><td></td><td>500</td></tr> <tr><td>MULTICOLOR COATINGS</td><td></td><td>250</td></tr> <tr><td>PRETREATMENT WASH PRIMERS</td><td></td><td>420</td></tr> <tr><td>PRIMERS, SEALERS, &amp; UNDERCOATERS</td><td></td><td>100</td></tr> <tr><td>REACTIVE PENETRATING SEALERS</td><td></td><td>350</td></tr> <tr><td>RECYCLED COATINGS</td><td></td><td>250</td></tr> <tr><td>ROOF COATINGS</td><td></td><td>50</td></tr> <tr><td>RUST PREVENTATIVE COATINGS</td><td></td><td>250</td></tr> <tr><td colspan="3"><b>SHELLACS</b></td></tr> <tr><td>CLEAR</td><td></td><td>730</td></tr> <tr><td>OPAQUE</td><td></td><td>550</td></tr> <tr><td>SPECIALTY PRIMERS, SEALERS &amp; UNDERCOATERS</td><td></td><td>100</td></tr> <tr><td>STAINS</td><td></td><td>250</td></tr> <tr><td>STONE CONSOLIDANTS</td><td></td><td>450</td></tr> <tr><td>SWIMMING POOL COATINGS</td><td></td><td>340</td></tr> <tr><td>TRAFFIC MARKING COATINGS</td><td></td><td>100</td></tr> <tr><td>TUB &amp; TILE REFINISH COATINGS</td><td></td><td>420</td></tr> <tr><td>WATERPROOFING MEMBRANES</td><td></td><td>250</td></tr> <tr><td>WOOD COATINGS</td><td></td><td>275</td></tr> <tr><td>WOOD PRESERVATIVES</td><td></td><td>350</td></tr> <tr><td>ZINC-RICH PRIMERS</td><td></td><td>340</td></tr> </tbody> </table> <p style="font-size: x-small;">1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER &amp; EXEMPT COMPOUNDS 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.</p>	SEALANTS	CURRENT VOC LIMIT	ARCHITECTURAL	250	MARINE DECK	760	NONMEMBRANE ROOF	300	ROADWAY	250	SINGLE-PLY ROOF MEMBRANE	450	OTHER	420	GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	COATING CATEGORY	CURRENT VOC LIMIT	FLAT COATINGS		50	NON-FLAT COATINGS		100	NONFLAT-HIGH GLOSS COATINGS		150	<b>SPECIALTY COATINGS</b>			ALUMINUM ROOF COATINGS		400	BASEMENT SPECIALTY COATINGS		400	BITUMINOUS ROOF COATINGS		50	BITUMINOUS ROOF PRIMERS		350	BOND BREAKERS		350	CONCRETE CURING COMPOUNDS		350	CONCRETE/MASONRY SEALERS		100	DRIVEWAY SEALERS		50	DRY FOG COATINGS		150	FAUX FINISHING COATINGS		350	FIRE RESISTIVE COATINGS		350	FLOOR COATINGS		100	FORM-RELEASE COMPOUNDS		250	GRAPHIC ARTS COATINGS (SIGN PAINTS)		500	HIGH TEMPERATURE COATINGS		420	INDUSTRIAL MAINTENANCE COATINGS		250	LOW SOLIDS COATINGS <sup>1</sup>		120	MAGNESITE CEMENT COATINGS		450	MASTIC TEXTURE COATINGS		100	METALLIC PIGMENTED COATINGS		500	MULTICOLOR COATINGS		250	PRETREATMENT WASH PRIMERS		420	PRIMERS, SEALERS, & UNDERCOATERS		100	REACTIVE PENETRATING SEALERS		350	RECYCLED COATINGS		250	ROOF COATINGS		50	RUST PREVENTATIVE COATINGS		250	<b>SHELLACS</b>			CLEAR		730	OPAQUE		550	SPECIALTY PRIMERS, SEALERS & UNDERCOATERS		100	STAINS		250	STONE CONSOLIDANTS		450	SWIMMING POOL COATINGS		340	TRAFFIC MARKING COATINGS		100	TUB & TILE REFINISH COATINGS		420	WATERPROOFING MEMBRANES		250	WOOD COATINGS		275	WOOD PRESERVATIVES		350	ZINC-RICH PRIMERS		340	<p style="text-align: center; font-weight: bold; font-size: small;">INSPECTOR SIGNOFF</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <caption>TABLE 4.504.5 - FORMALDEHYDE LIMITS: MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION</caption> <thead> <tr> <th>PRODUCT</th> <th>CURRENT LIMIT</th> </tr> </thead> <tbody> <tr><td>HARDWOOD PLYWOOD VENEER CORE</td><td>0.05</td></tr> <tr><td>HARDWOOD PLYWOOD COMPOSITE CORE</td><td>0.05</td></tr> <tr><td>PARTICLE BOARD</td><td>0.09</td></tr> <tr><td>MEDIUM DENSITY FIBERBOARD</td><td>0.11</td></tr> <tr><td>THIN MEDIUM DENSITY FIBERBOARD<sup>2</sup></td><td>0.13</td></tr> </tbody> </table> <p style="font-size: x-small;">1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).</p> <p style="font-weight: bold;">DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)</p> <p><b>4.504.3 CARPET SYSTEMS.</b> All carpet installed in the building interior shall meet the testing and product requirements of at least one of the following:</p> <ol style="list-style-type: none"> <li>1. Carpet and Rug Institute's Green Label Plus Program.</li> <li>2. California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1, February 2010 (also known as Specification 01350).</li> <li>3. NSF/ANSI 140 at the Gold level.</li> <li>4. Scientific Certifications Systems Indoor Advantage<sup>®</sup> Gold.</li> </ol> <p><b>4.504.3.1 Carpet cushion.</b> All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.</p> <p><b>4.504.3.2 Carpet adhesive.</b> All carpet adhesive shall meet the requirements of Table 4.504.1.</p> <p><b>4.504.4 RESILIENT FLOORING SYSTEMS.</b> Where resilient flooring is installed, at least 80% of floor area requiring resilient flooring shall comply with one or more of the following:</p> <ol style="list-style-type: none"> <li>1. Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.</li> <li>2. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children &amp; Schools program).</li> <li>3. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program.</li> <li>4. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350).</li> </ol> <p><b>4.504.5 COMPOSITE WOOD PRODUCTS.</b> Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5.</p> <p><b>4.504.5.1 Documentation.</b> Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:</p> <ol style="list-style-type: none"> <li>1. Product certifications and specifications.</li> <li>2. Chain of custody certifications.</li> <li>3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).</li> <li>4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2289, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0225 standards.</li> <li>5. Other methods acceptable to the enforcing agency.</li> </ol> <p><b>4.505 INTERIOR MOISTURE CONTROL</b></p> <p><b>4.505.1 General.</b> Buildings shall meet or exceed the provisions of the California Building Standards Code.</p> <p><b>4.505.2 CONCRETE SLAB FOUNDATIONS.</b> Concrete slab foundations required to have a vapor retarder by the California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.</p> <p><b>4.505.2.1 Capillary break.</b> A capillary break shall be installed in compliance with at least one of the following:</p> <ol style="list-style-type: none"> <li>1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-08.</li> <li>2. Other equivalent methods approved by the enforcing agency.</li> <li>3. A slab design specified by a licensed design professional.</li> </ol> <p><b>4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS.</b> Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:</p> <ol style="list-style-type: none"> <li>1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.</li> <li>2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified.</li> <li>3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.</li> </ol> <p>Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.</p> <p><b>4.506 INDOOR AIR QUALITY AND EXHAUST</b></p> <p><b>4.506.1 Bathroom exhaust fans.</b> Each bathroom shall be mechanically ventilated and shall comply with the following:</p> <ol style="list-style-type: none"> <li>1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.</li> <li>2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.             <ol style="list-style-type: none"> <li>a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment.</li> <li>b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in).</li> </ol> </li> </ol> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.</li> <li>2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.</li> </ol> <p><b>4.507 ENVIRONMENTAL COMFORT</b></p> <p><b>4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN.</b> Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:</p> <ol style="list-style-type: none"> <li>1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculations), ASHRAE handbooks or other equivalent design software or methods.</li> <li>2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.</li> <li>3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.</li> </ol> <p><b>Exception:</b> Use of alternate design temperatures necessary to ensure the system functions are acceptable.</p>	PRODUCT	CURRENT LIMIT	HARDWOOD PLYWOOD VENEER CORE	0.05	HARDWOOD PLYWOOD COMPOSITE CORE	0.05	PARTICLE BOARD	0.09	MEDIUM DENSITY FIBERBOARD	0.11	THIN MEDIUM DENSITY FIBERBOARD <sup>2</sup>	0.13	<p style="text-align: center; font-weight: bold; font-size: small;">INSPECTOR SIGNOFF</p> <p><b>CHAPTER 7 INSTALLER &amp; SPECIAL INSPECTOR QUALIFICATIONS</b></p> <p><b>702 QUALIFICATIONS</b></p> <p><b>702.1 INSTALLER TRAINING.</b> HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:</p> <ol style="list-style-type: none"> <li>1. State certified apprenticeship programs.</li> <li>2. Public utility training programs.</li> <li>3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.</li> <li>4. Programs sponsored by manufacturing organizations.</li> <li>5. Other programs acceptable to the enforcing agency.</li> </ol> <p><b>702.2 SPECIAL INSPECTION [HCD].</b> When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:</p> <ol style="list-style-type: none"> <li>1. Certification by a national or regional green building program or standard publisher.</li> <li>2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.</li> <li>3. Successful completion of a third party apprentice training program in the appropriate trade.</li> <li>4. Other programs acceptable to the enforcing agency.</li> </ol> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.</li> <li>2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).</li> </ol> <p>[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.</p> <p><b>Note:</b> Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.</p> <p><b>703 VERIFICATIONS</b></p> <p><b>703.1 DOCUMENTATION.</b> Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.</p>	<p style="text-align: center; font-weight: bold; font-size: small;">INSPECTOR SIGNOFF</p>
SEALANTS	CURRENT VOC LIMIT																																																																																																																																																																			
ARCHITECTURAL	250																																																																																																																																																																			
MARINE DECK	760																																																																																																																																																																			
NONMEMBRANE ROOF	300																																																																																																																																																																			
ROADWAY	250																																																																																																																																																																			
SINGLE-PLY ROOF MEMBRANE	450																																																																																																																																																																			
OTHER	420																																																																																																																																																																			
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	COATING CATEGORY	CURRENT VOC LIMIT																																																																																																																																																																		
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CONCRETE/MASONRY SEALERS		100																																																																																																																																																																		
DRIVEWAY SEALERS		50																																																																																																																																																																		
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FIRE RESISTIVE COATINGS		350																																																																																																																																																																		
FLOOR COATINGS		100																																																																																																																																																																		
FORM-RELEASE COMPOUNDS		250																																																																																																																																																																		
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INDUSTRIAL MAINTENANCE COATINGS		250																																																																																																																																																																		
LOW SOLIDS COATINGS <sup>1</sup>		120																																																																																																																																																																		
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MULTICOLOR COATINGS		250																																																																																																																																																																		
PRETREATMENT WASH PRIMERS		420																																																																																																																																																																		
PRIMERS, SEALERS, & UNDERCOATERS		100																																																																																																																																																																		
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<b>SHELLACS</b>																																																																																																																																																																				
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OPAQUE		550																																																																																																																																																																		
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS		100																																																																																																																																																																		
STAINS		250																																																																																																																																																																		
STONE CONSOLIDANTS		450																																																																																																																																																																		
SWIMMING POOL COATINGS		340																																																																																																																																																																		
TRAFFIC MARKING COATINGS		100																																																																																																																																																																		
TUB & TILE REFINISH COATINGS		420																																																																																																																																																																		
WATERPROOFING MEMBRANES		250																																																																																																																																																																		
WOOD COATINGS		275																																																																																																																																																																		
WOOD PRESERVATIVES		350																																																																																																																																																																		
ZINC-RICH PRIMERS		340																																																																																																																																																																		
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THIN MEDIUM DENSITY FIBERBOARD <sup>2</sup>	0.13																																																																																																																																																																			

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

5/30/2016 6:26:03 PM

**201 EL CAMINO REAL  
at  
CAMBRIDGE AVE**  
MENLO PARK, CALIFORNIA 94025

**CONCEPT  
SITE AND GRADING PLAN**

REVISIONS:  
PLANNING SUBMITTAL  
05/30/18

CHECKED: \_\_\_\_\_  
PLOT DATE: \_\_\_\_\_  
PROJ. NO. 17-1007  
ISSUED: 05/31/2018  
DWS SCALE: 1" = 10'  
DRAWN BY: CB  
SHEET NO. \_\_\_\_\_

**C2.0**

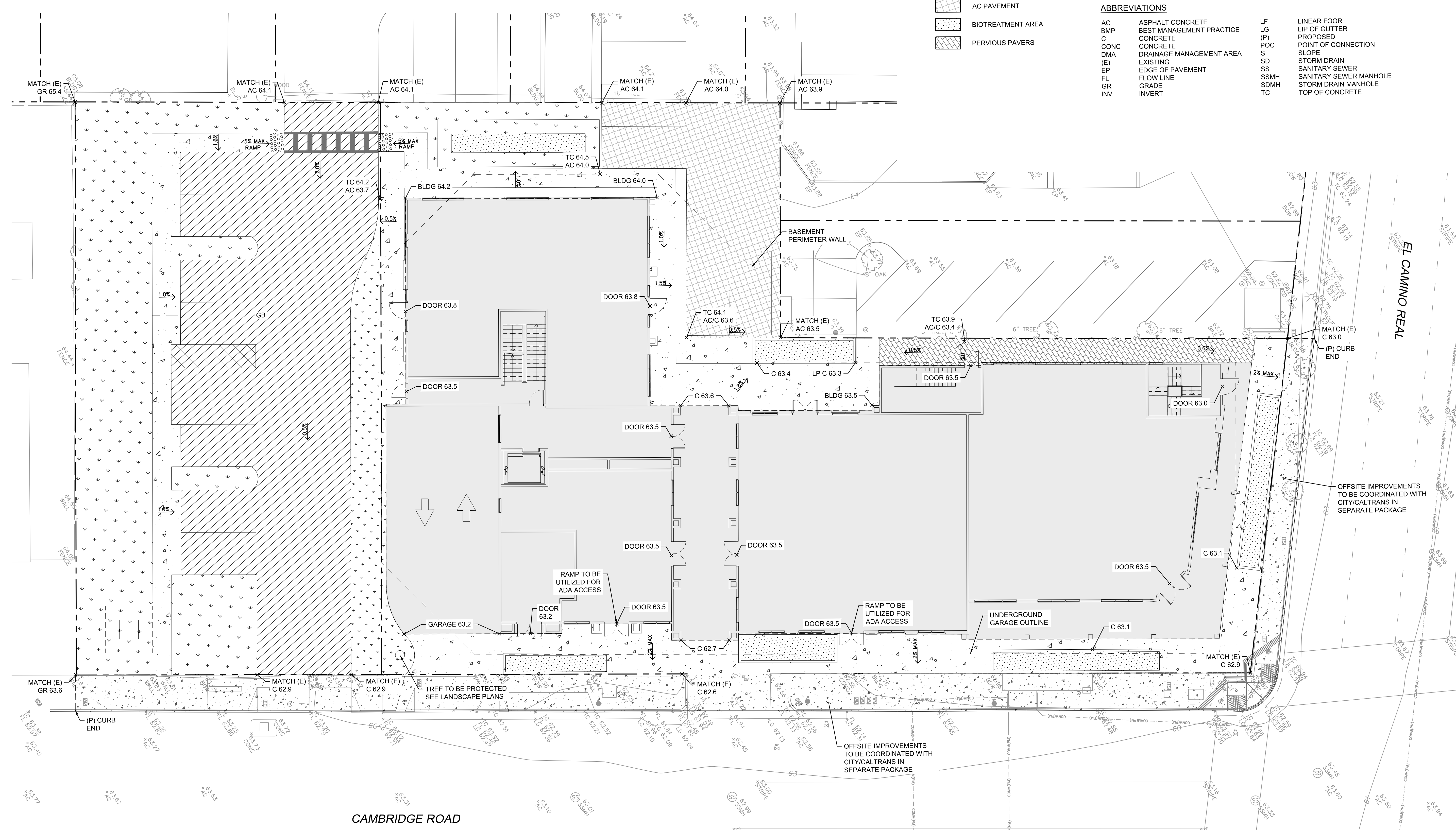
**LEGEND**

[Symbol]	BUILDING ROOF AREA
[Symbol]	CONCRETE
[Symbol]	PERVIOUS PAVEMENT
[Symbol]	LANDSCAPING
[Symbol]	AC PAVEMENT
[Symbol]	BIOTREATMENT AREA
[Symbol]	PERVIOUS PAVERS

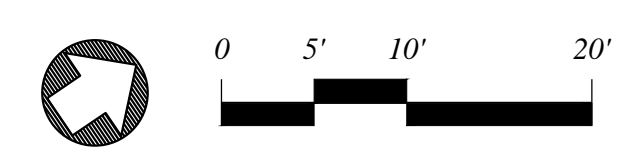
- NOTES**
- TOPOGRAPHIC SURVEY PERFORMED BY BGT LAND SURVEYING DATED AUGUST 2015 WITH SUPPLEMENTAL SURVEY PERFORMED BY MARK THOMAS ON APRIL 23, 2018.
  - OFFSITE IMPROVEMENTS ON ADJACENT PRIVATE PROPERTIES ARE FOR ILLUSTRATIVE PURPOSES ONLY.
  - OFFSITE IMPROVEMENTS ON PUBLIC PROPERTY ARE TO BE COORDINATED WITH CALTRANS AND CITY THROUGH SEPARATE SUBMITTAL PACKAGES.

**ABBREVIATIONS**

AC	ASPHALT CONCRETE	LF	LINEAR FOOT
BMP	BEST MANAGEMENT PRACTICE	LG	LIP OF GUTTER
C	CONCRETE	(P)	PROPOSED
CONC	CONCRETE	POC	POINT OF CONNECTION
DMA	DRAINAGE MANAGEMENT AREA	S	SLOPE
(E)	EXISTING	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SS	SANITARY SEWER
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
GR	GRADE	SDMH	STORM DRAIN MANHOLE
INV	INVERT	TC	TOP OF CONCRETE



**NOT FOR  
CONSTRUCTION**



SHEET TITLE:

**CONCEPT  
UTILITY AND RELOCATION PLAN**

REVISIONS:  
△ PLANNING SUBMITTAL  
05/30/18

CHECKED: \_\_\_\_\_  
PLOT DATE: \_\_\_\_\_

PROJ. NO. 17-1007  
ISSUED: 05/31/2018  
DWS SCALE: 1" = 10'  
DRAWN BY: CB

SHEET NO.

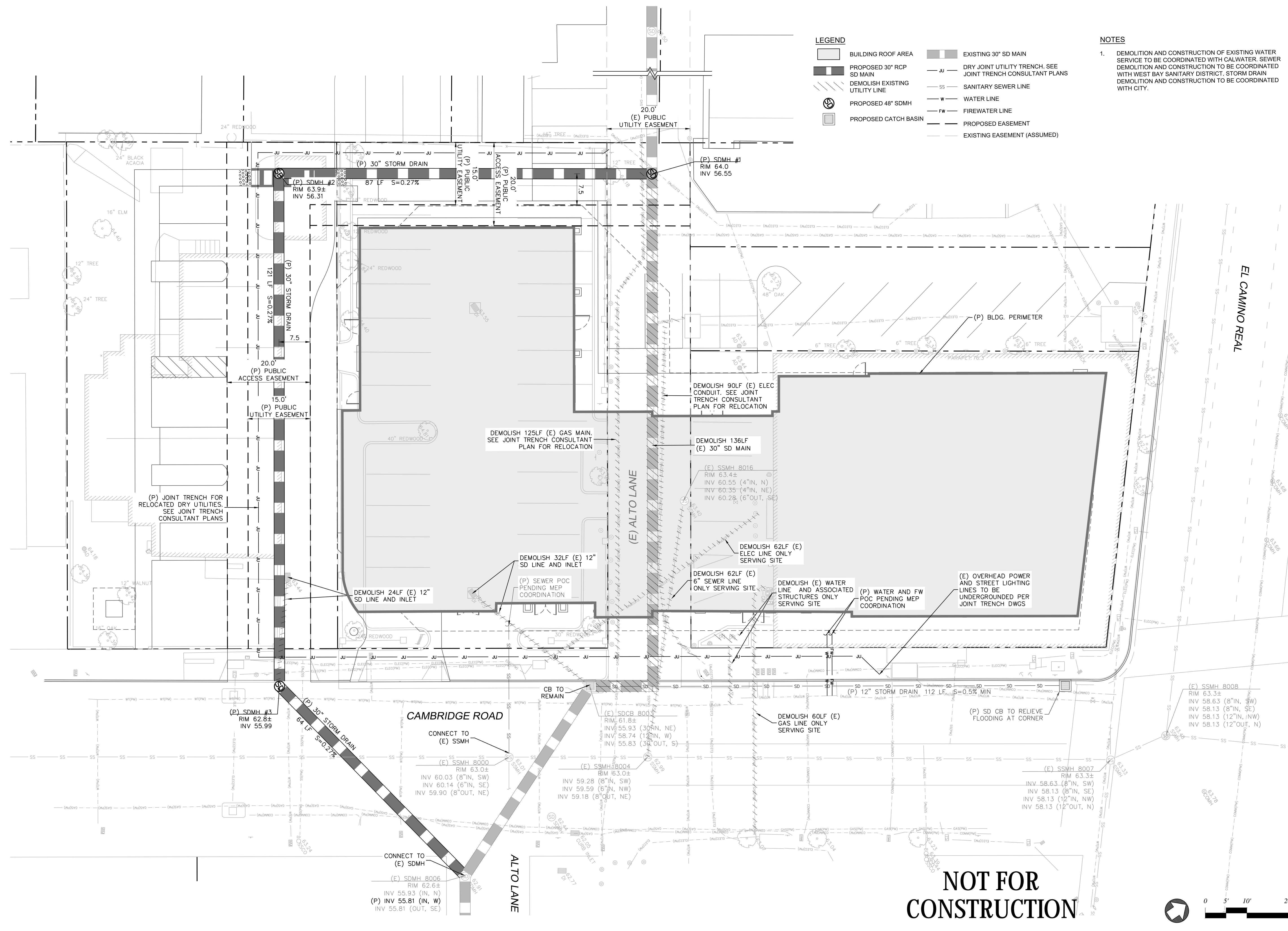
**C3.0**

**LEGEND**

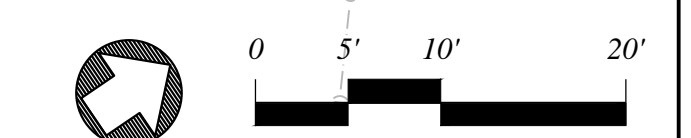
	BUILDING ROOF AREA		EXISTING 30" SD MAIN
	PROPOSED 30" RCP SD MAIN		DRY JOINT UTILITY TRENCH. SEE JOINT TRENCH CONSULTANT PLANS
	DEMOLISH EXISTING UTILITY LINE		SANITARY SEWER LINE
	PROPOSED 48" SDMH		WATER LINE
	PROPOSED CATCH BASIN		FIREWATER LINE
			PROPOSED EASEMENT
			EXISTING EASEMENT (ASSUMED)

**NOTES**

- DEMOLITION AND CONSTRUCTION OF EXISTING WATER SERVICE TO BE COORDINATED WITH CALWATER. SEWER DEMOLITION AND CONSTRUCTION TO BE COORDINATED WITH WEST BAY SANITARY DISTRICT. STORM DRAIN DEMOLITION AND CONSTRUCTION TO BE COORDINATED WITH CITY.



**NOT FOR  
CONSTRUCTION**

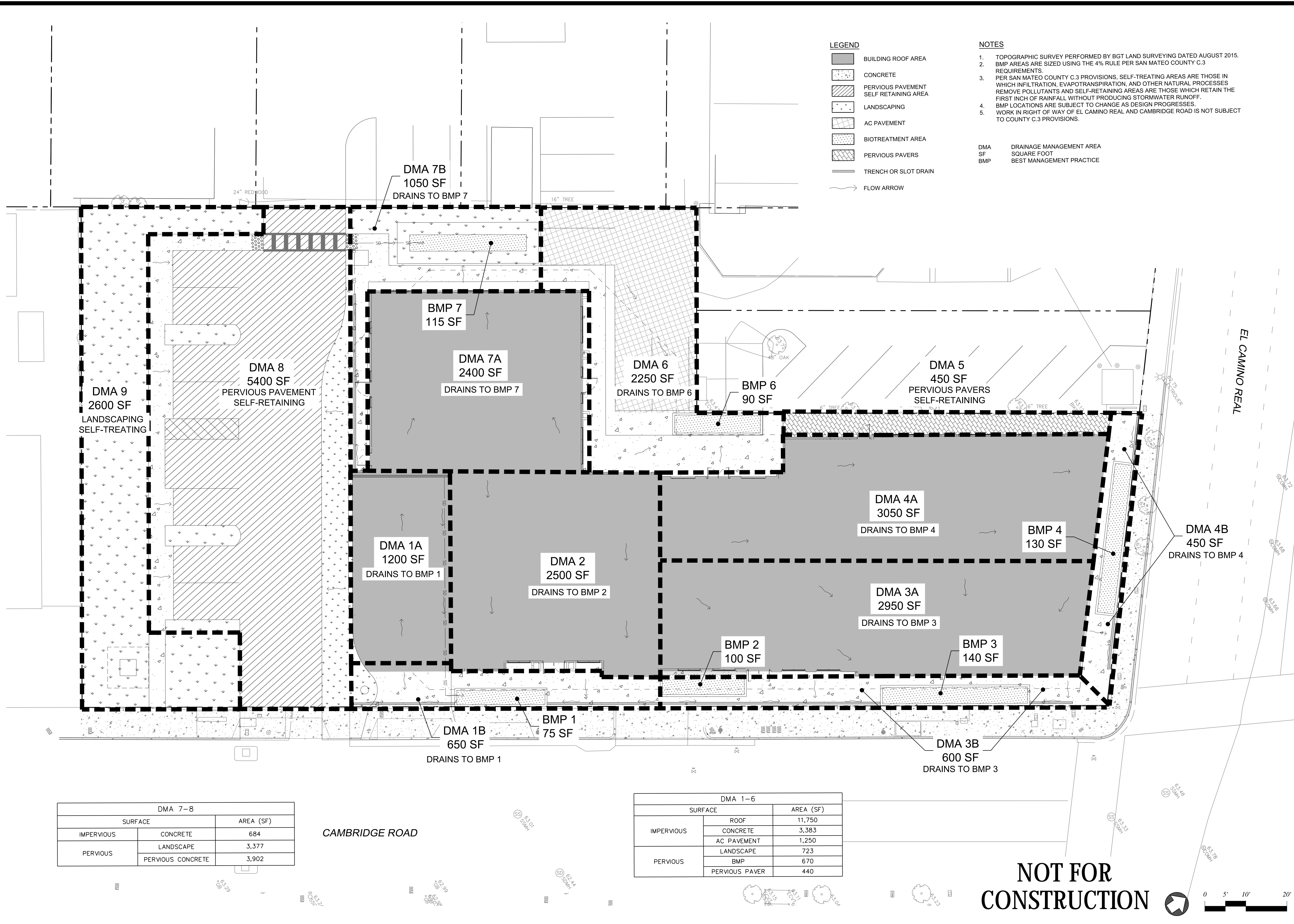


**LEGEND**

[Symbol]	BUILDING ROOF AREA
[Symbol]	CONCRETE
[Symbol]	PERVIOUS PAVEMENT SELF RETAINING AREA
[Symbol]	LANDSCAPING
[Symbol]	AC PAVEMENT
[Symbol]	BIOTREATMENT AREA
[Symbol]	PERVIOUS PAVERS
[Symbol]	TRENCH OR SLOT DRAIN
[Symbol]	FLOW ARROW

- NOTES**
- TOPOGRAPHIC SURVEY PERFORMED BY BGT LAND SURVEYING DATED AUGUST 2015.
  - BMP AREAS ARE SIZED USING THE 4% RULE PER SAN MATEO COUNTY C.3 REQUIREMENTS.
  - PER SAN MATEO COUNTY C.3 PROVISIONS, SELF-TREATING AREAS ARE THOSE IN WHICH INFILTRATION, EVAPOTRANSPIRATION, AND OTHER NATURAL PROCESSES REMOVE POLLUTANTS AND SELF-RETAINING AREAS ARE THOSE WHICH RETAIN THE FIRST INCH OF RAINFALL WITHOUT PRODUCING STORMWATER RUNOFF.
  - BMP LOCATIONS ARE SUBJECT TO CHANGE AS DESIGN PROGRESSES.
  - WORK IN RIGHT OF WAY OF EL CAMINO REAL AND CAMBRIDGE ROAD IS NOT SUBJECT TO COUNTY C.3 PROVISIONS.

DMA  
SF DRAINAGE MANAGEMENT AREA SQUARE FOOT  
BMP BEST MANAGEMENT PRACTICE



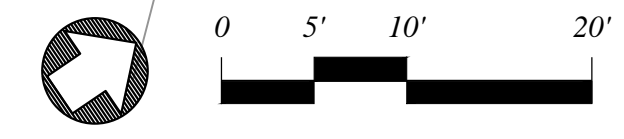
**DMA 7-8**

SURFACE		AREA (SF)
IMPERVIOUS	CONCRETE	684
	LANDSCAPE	3,377
PERVIOUS	PERVIOUS CONCRETE	3,902

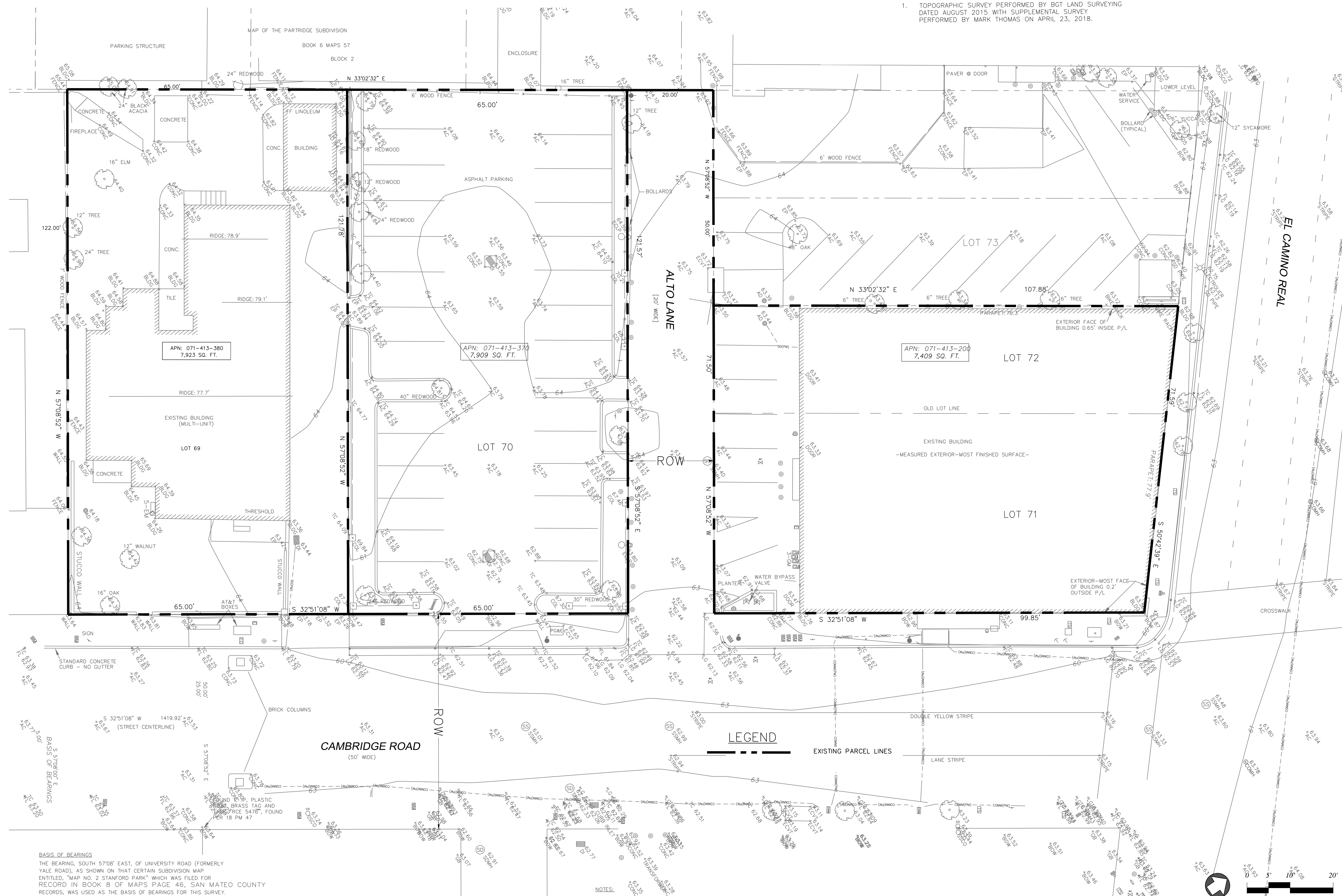
**DMA 1-6**

SURFACE		AREA (SF)
IMPERVIOUS	ROOF	11,750
	CONCRETE	3,383
	AC PAVEMENT	1,250
PERVIOUS	LANDSCAPE	723
	BMP	670
	PERVIOUS PAVER	440

**NOT FOR CONSTRUCTION**



NOTES  
 1. TOPOGRAPHIC SURVEY PERFORMED BY BGT LAND SURVEYING DATED AUGUST 2015 WITH SUPPLEMENTAL SURVEY PERFORMED BY MARK THOMAS ON APRIL 23, 2018.



**201 EL CAMINO REAL  
 at CAMBRIDGE AVE**  
 MENLO PARK, CALIFORNIA 94025

SHEET TITLE:  
**EXISTING PARCEL EXHIBIT**

REVISIONS:

CHECKED: \_\_\_\_\_  
 PLOT DATE: \_\_\_\_\_

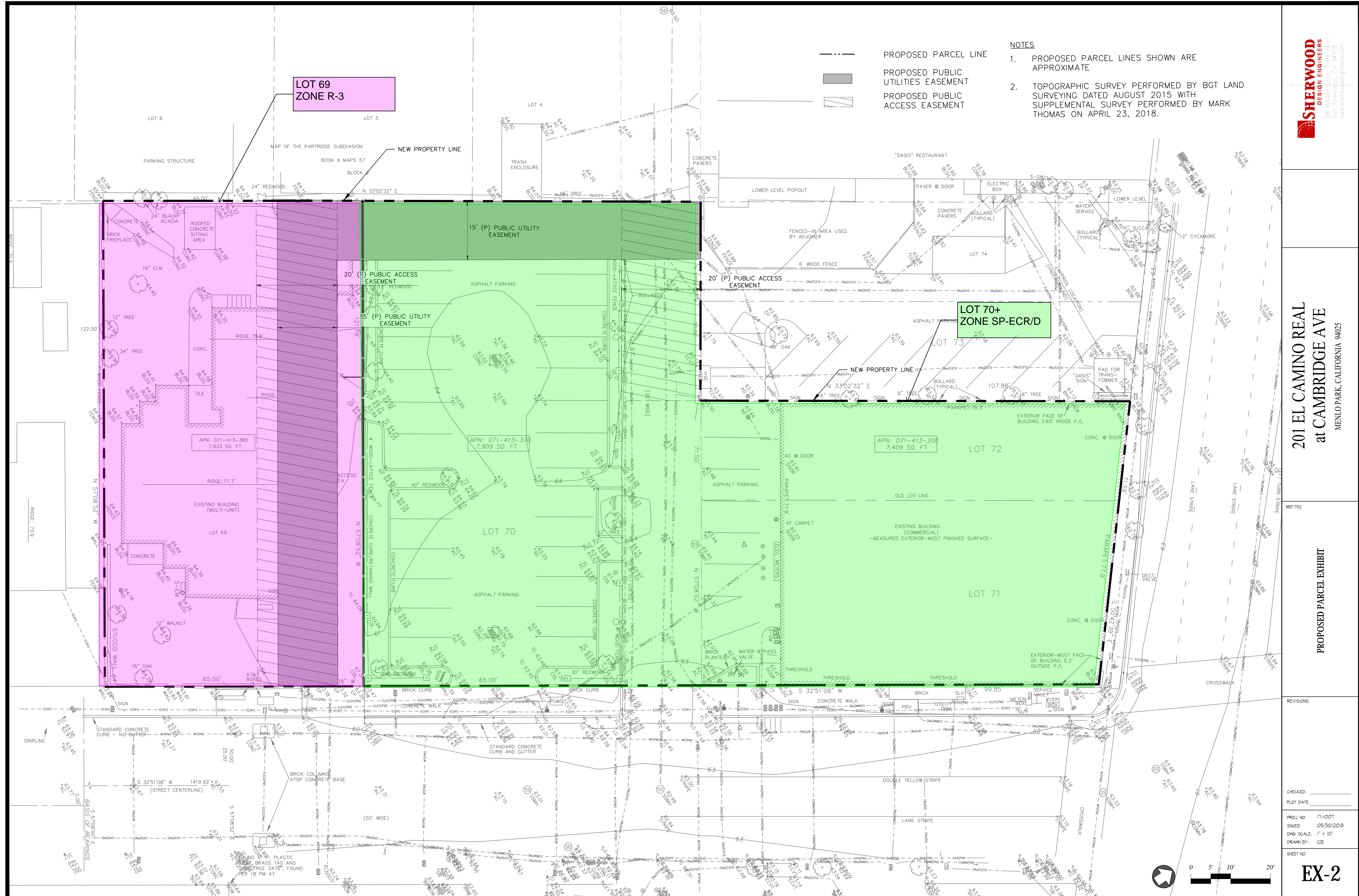
PROJ. NO. 17-1007  
 ISSUED: 05/30/2018  
 DWS SCALE: 1" = 10'  
 DRAWN BY: CB

SHEET NO.

**EX-1**

**BASIS OF BEARINGS**  
 THE BEARING, SOUTH 57°08' EAST, OF UNIVERSITY ROAD (FORMERLY YALE ROAD), AS SHOWN ON THAT CERTAIN SUBDIVISION MAP ENTITLED, "MAP NO. 2 STANFORD PARK" WHICH WAS FILED FOR RECORD IN BOOK 8 OF MAPS PAGE 46, SAN MATEO COUNTY RECORDS, WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

NOTES:  
 BGT RELIED UPON A CHICAGO TITLE COMPANY PRELIMINARY TITLE REPORT, ORDER NO. 2982140140, AS TITLE REFERENCE. NO EASEMENTS WERE REFERENCED WITHIN SAID REPORT.

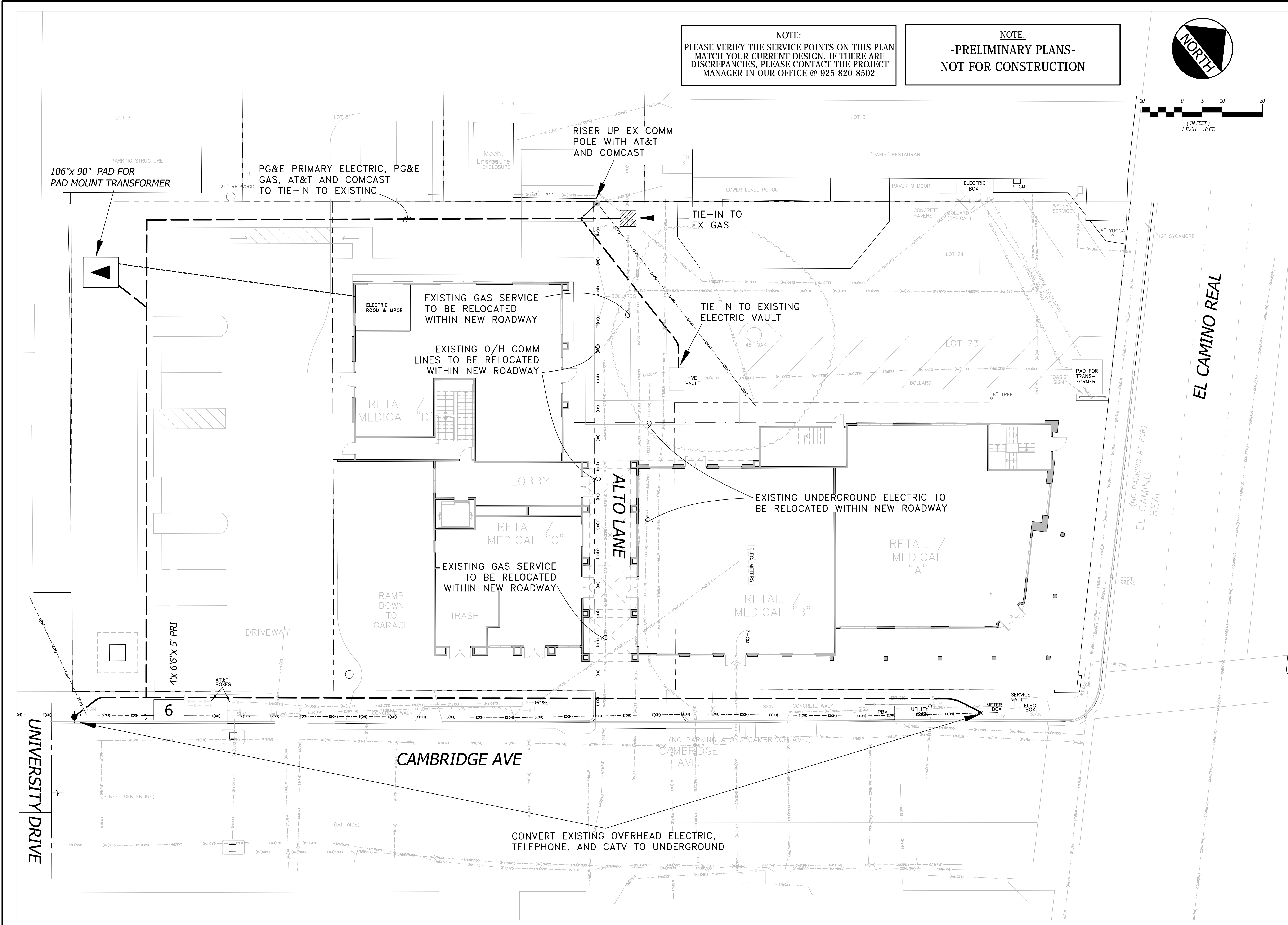


--- PROPOSED PARCEL LINE  
 [Hatched Box] PROPOSED PUBLIC UTILITIES EASEMENT  
 [Hatched Box] PROPOSED PUBLIC ACCESS EASEMENT

- NOTES**
1. PROPOSED PARCEL LINES SHOWN ARE APPROXIMATE
  2. TOPOGRAPHIC SURVEY PERFORMED BY BGT LAND SURVEYING DATED AUGUST 2015 WITH SUPPLEMENTAL SURVEY PERFORMED BY MARK THOMAS ON APRIL 23, 2018.

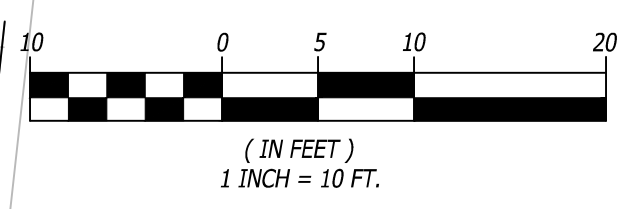
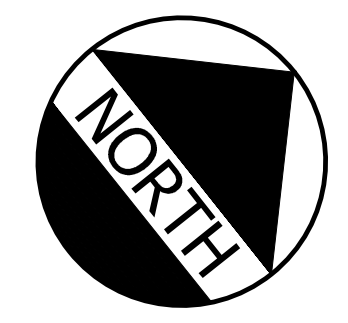
LOT 69  
ZONE R-3

LOT 70+  
ZONE SP-ECR/D



**NOTE:**  
PLEASE VERIFY THE SERVICE POINTS ON THIS PLAN  
MATCH YOUR CURRENT DESIGN. IF THERE ARE  
DISCREPANCIES, PLEASE CONTACT THE PROJECT  
MANAGER IN OUR OFFICE @ 925-820-8502

**NOTE:**  
-PRELIMINARY PLANS-  
NOT FOR CONSTRUCTION



**MILLENNium**  
DESIGN & CONSULTING, INC.  
UTILITY DESIGN & CONSULTING - APPLICANT DESIGN - STREET LIGHTING

MDCI JOB#:	18-779
MDCI PH:	AG
DESIGNED BY:	NK
CHECKED BY:	AG
SCALE:	1"=10'
LAST MODIFIED:	05-30-2018

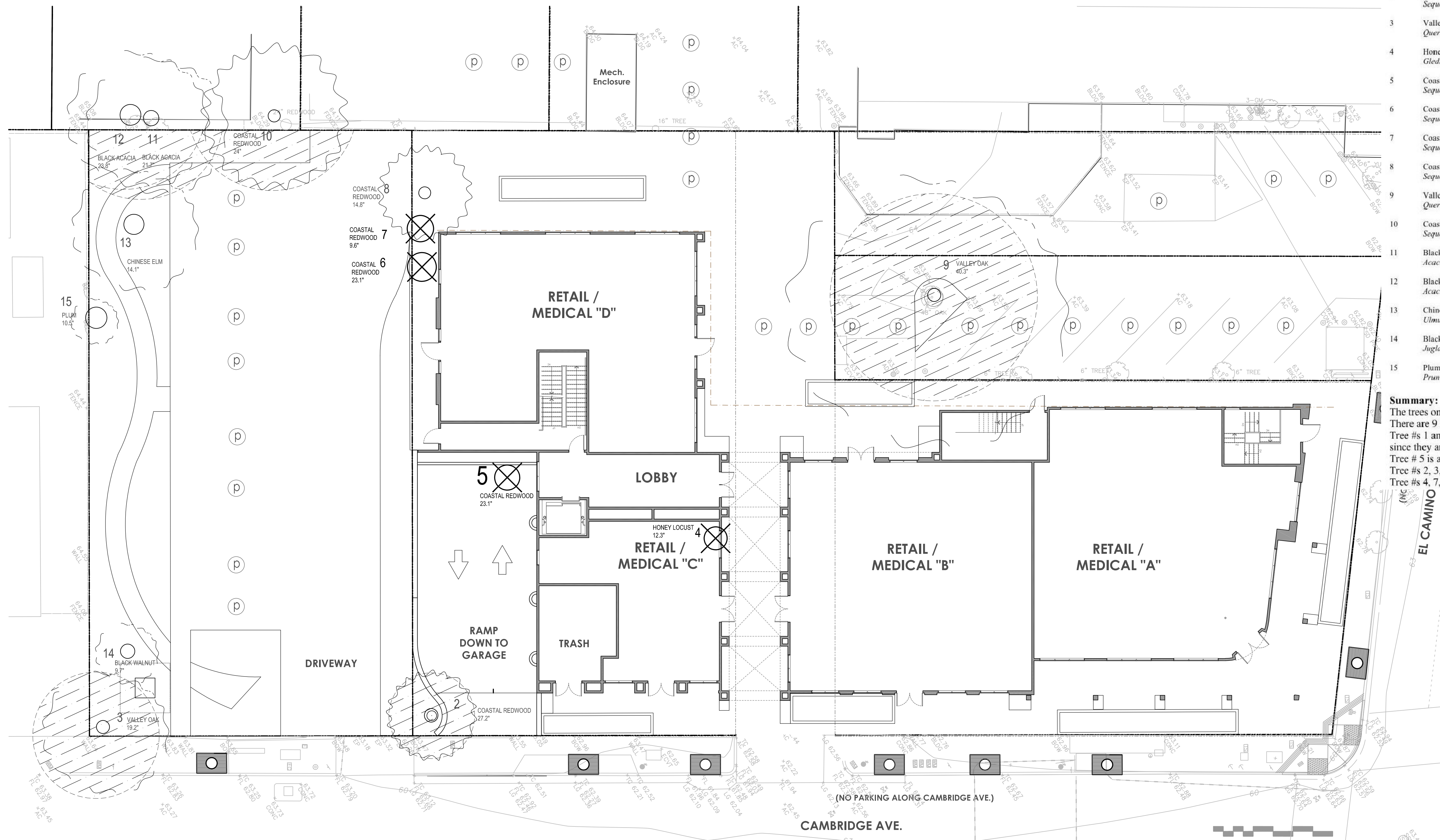
REV	DATE	DESCRIPTION

HUHANTWO, LLC.  
**JOINT TRENCH INTENT**  
201 EL CAMINO REAL  
CALIFORNIA  
MENLO PARK

SHEET NO.  
**INT1**  
SHEET 1 OF 1  
REVISION NUMBER: 0  
PLOT DATE: 05-30-2018

PHONE: 925-820-8502 - FAX: 925-820-8407



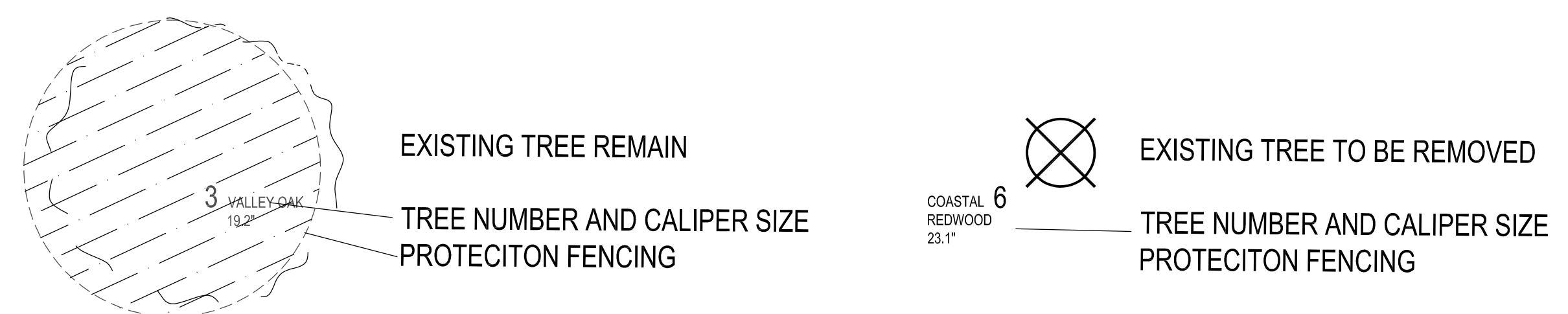


**Tree Survey**

Tree#	Species	DBH	Ht/Sp	Con Rating	Comments
1	Coastal redwood <i>Sequoia sempervirens</i>	29.6"	50/25	65	Good health and condition, pruned for PGE, <b>Regulated</b>
2	Coastal redwood <i>Sequoia sempervirens</i>	27.2"	45/20	65	Good health and condition, pruned for PGE, <b>Regulated</b>
3	Valley oak <i>Quercus lobata</i>	19.2"	30/25	40	Poor health and condition, pruned for PGE, one sided, <b>Regulated</b>
4	Honey locust <i>Gleditsia triacanthos</i>	12.3"	30/30	50	Fair health and condition, drought stress <b>Not Regulated</b>
5	Coastal redwood <i>Sequoia sempervirens</i>	33.7"	45/25	40	Poor health and condition, thin canopy, codominant, <b>Regulated</b>
6	Coastal redwood <i>Sequoia sempervirens</i>	23.1"	40/20	65	Good health and condition <b>Regulated</b>
7	Coastal redwood <i>Sequoia sempervirens</i>	9.6"	30/10	65	Good health and condition <b>Not Regulated</b>
8	Coastal redwood <i>Sequoia sempervirens</i>	14.8"	30/15	65	Good health and condition <b>Not Regulated</b>
9	Valley oak <i>Quercus lobata</i>	40.3"	40/50	80	Good health and condition, well maintained, <b>Regulated</b>
10	Coastal redwood <i>Sequoia sempervirens</i>	24"est	60/25	60	Good health and condition, neighbors <b>Regulated</b>
11	Black acacia <i>Acacia melanoxyton</i>	21.7"	60/30	50	Fair health and condition, leaning, one sided, poor species, <b>Regulated</b>
12	Black acacia <i>Acacia melanoxyton</i>	23.8"	60/30	50	Fair health and condition, leaning, one sided, poor species, <b>Regulated</b>
13	Chinese elm <i>Ulmus parvifolia</i>	14.1"	30/25	40	Poor health and condition, cankers, decay poor form, <b>Not Regulated</b>
14	Black walnut <i>Juglans nigra</i>	9.7"	15/10	30	Poor health and condition, suppressed by #3, <b>Not Regulated</b>
15	Plum <i>Prunus cerasifera</i>	10.5"	18/5	30	Poor health and condition <b>Not Regulated</b>

**Summary:**  
 The trees on the site are a variety of natives and non-natives. There are 9 Regulated trees of which 1 is on a neighbor's property. Tree #s 1 and 6 are Regulated trees in good health and condition and have been requested for removal since they are within the proposed construction. Tree # 5 is a Regulated tree in poor health and condition and should be removed. Tree #s 2, 3, 9, 10, 11 and 12 are Regulated trees that should be protected during construction. Tree #s 4, 7, 8, 13, 14 and 15 are not Regulated trees and can be removed if desired.

**LEGEND**



SCALE: 3/32"=1'-0"  
 0' 4' 8' 16'



**TREE PROTECTION SPECIFICATIONS**

1. A 6' layer of coarse mulch or woodchips is to be placed beneath the dripline of the protected trees. Mulch is to be kept 12" from the trunk.
2. A protective barrier of 6' chain link fencing shall be installed around the dripline of protected tree(s). The fencing can be moved within the dripline if authorized by the Project Arborist or City Arborist but not closer than 2' from the trunk of any tree. Fence posts shall be 1.5" in diameter and are to be driven 2' into the ground. The distance between posts shall not be more than 10'. This enclosed area is the Tree Protection Zone (TPZ).
3. Movable barriers of chain link fencing secured to cement blocks can be substituted for fixed fencing if the Project Arborist and City Arborist agree that the fencing will have to be moved to accommodate certain phases of construction. The builder may not move the fence without authorization from the Project Arborist or City Arborist.
4. Where the City Arborist or Project Arborist has determined that tree protection fencing will interfere with the safety of work crews, Tree Wrap may be used as an alternative form of tree protection. Wooden slats at least one inch thick are to be bound securely, edge to edge, around the trunk. A single layer or more of orange plastic construction fencing is to be wrapped and secured around the outside of the wooden slats. Major scaffold limbs may require protection as determined by the City Arborist or Project Arborist. Straw waddle may also be used as a trunk wrap by coiling the waddle around the trunk up to a minimum height of six feet from grade. A single layer or more of orange plastic construction fencing is to be wrapped and secured around the straw waddle.
5. **Avoid the following conditions.**  
**DO NOT:**
  - a. Allow run off of spillage of damaging materials into the area below any tree canopy.
  - b. Store materials, stockpile soil, or park or drive vehicles within the TPZ.
  - c. Cut, break, skin, or bruise roots, branches, or trunks without first obtaining authorization from the City Arborist.
  - d. Allow fires under and adjacent to trees.
  - e. Discharge exhaust into foliage.
  - f. Secure cable, chain, or rope to trees or shrubs.
  - g. Trench, dig, or otherwise excavate within the dripline or TPZ of the tree(s) without first obtaining authorization from the City Arborist.
  - h. Apply soil sterilants under pavement near existing trees.
6. Only excavation by hand or compressed air shall be allowed within the dripline of trees. Machine trenching shall not be allowed.
7. Avoid injury to tree roots. When a ditching machine, which is being used outside of the dripline of trees, encounters roots smaller than 2", the wall of the trench adjacent to the trees shall be hand trimmed, making clear, clean cuts through the roots. All damaged, torn and cut roots shall be given a clean cut to remove ragged edges, which promote decay. Trenches shall be filled within 24 hours, but where this is not possible, the side of the trench adjacent to the trees shall be kept shaded with four layers of dampened, untreated burlap, wetted as frequently as necessary to keep the burlap wet. Roots 2" or larger, when encountered, shall be reported immediately to the Project Arborist, who will decide whether the Contractor may cut the root as mentioned above or shall excavate by hand or with compressed air under the root. Root is to be protected with dampened burlap.
8. Route pipes outside of the area that is 10 times the diameter of a protected tree to avoid conflict with roots.
9. Where it is not possible to reroute pipes or trenches, the contractor shall bore beneath the dripline of the tree. The boring shall take place not less than 3' below the surface of the soil in order to avoid encountering "feeder" roots.
10. Trees that have been identified in the arborist's report as being in poor health and/or posing a health or safety risk, may be removed or pruned by more than one-third, subject to approval of the required permit by the Planning Division. Pruning of existing limbs and roots shall only occur under the direction of a Certified Arborist.
11. Any damage due to construction activities shall be reported to the Project Arborist or City Arborist within six hours so that remedial action can be taken.
12. An ISA Certified Arborist or ASCA Registered Consulting Arborist shall be retained as the Project Arborist to monitor the tree protection specifications. The Project Arborist shall be responsible for the preservation of the designated trees. Should the builder fail to follow the tree protection specifications, it shall be the responsibility of the Project Arborist to report the matter to the City Arborist as an issue of non-compliance.
13. Violation of any of the above provisions may result in sanctions or other disciplinary action.

**MONTHLY INSPECTIONS**

It is required that the site arborist provide periodic inspections during construction. Four-week intervals would be sufficient to access and monitor the effectiveness of the Tree Protection Plan and to provide recommendations for any additional care or treatment.

**ARBORIST CERTIFICATION**

*Certification of Performance<sup>(3)</sup>*

I, Robert Weatherill certify:

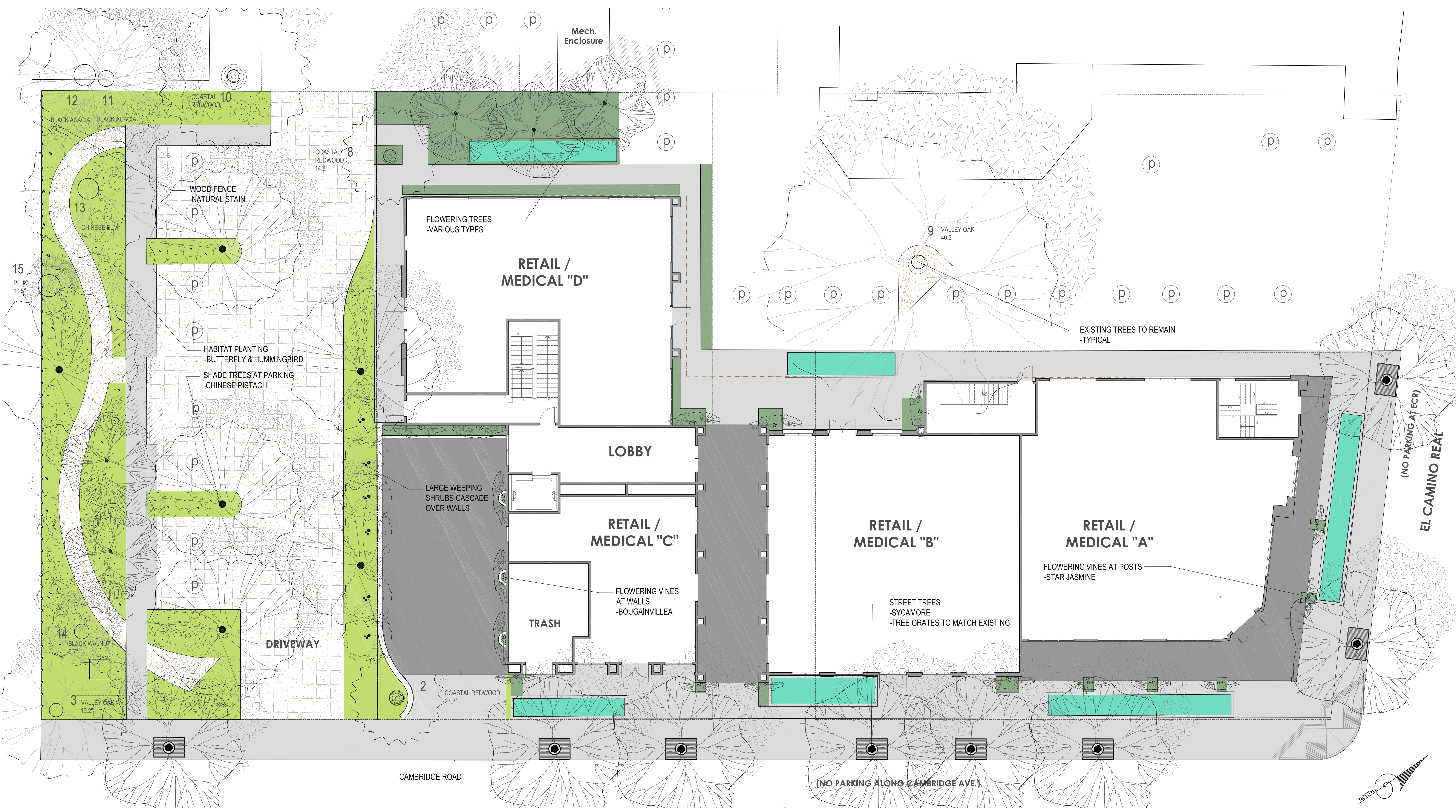
- \* That I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and appraisal is stated in the attached report and the Terms and Conditions;
- \* That I have no current or prospective interest in the vegetation or the property that is the subject of this report, and I have no personal interest or bias with respect to the parties involved;
- \* That the analysis, opinions and conclusions stated herein are my own, and are based on current scientific procedures and facts;
- \* That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party, nor upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events;
- \* That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted Arboicultural practices;
- \* That no one provided significant professional assistance to the consultant, except as indicated within the report.

I further certify that I am a member of the International Society of Arboriculture and a Certified Arborist. I have been involved in the practice of arboriculture and the care and study of trees for over 15 years.

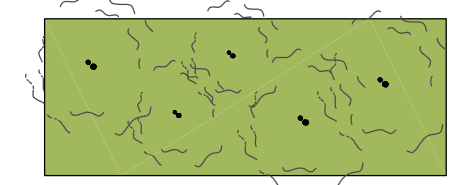
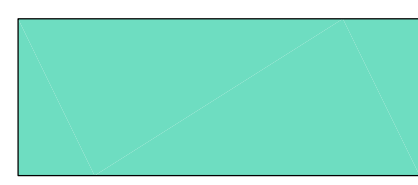
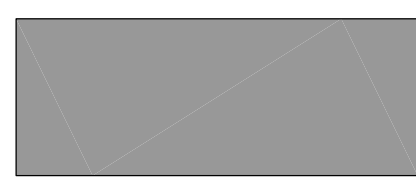
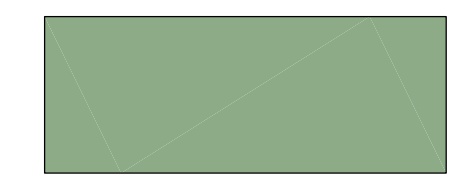
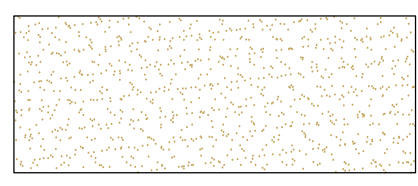
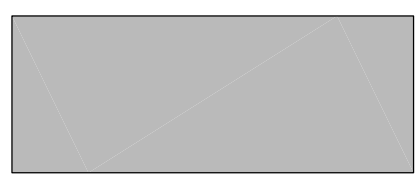
Signed

Robert Weatherill  
Certified Arborist WE 1936a  
Date: 5/4/18





**LEGEND**

- |   |                         |  |                       |   |                                    |
|---|-------------------------|--|-----------------------|---|------------------------------------|
|  | NATIVE HABITAT PLANTING |  | BIODETENTION PLANTING |  | CONCRETE PAVING<br>-INTERGAL COLOR |
|  | FOUNDATION PLANTING     |  | WALK-ON BARK MULCH    |  | CONCRETE PAVING<br>-SIDEWALK GREY  |

SCALE: 1/8"=1'-0"



VINES AT BUILDING

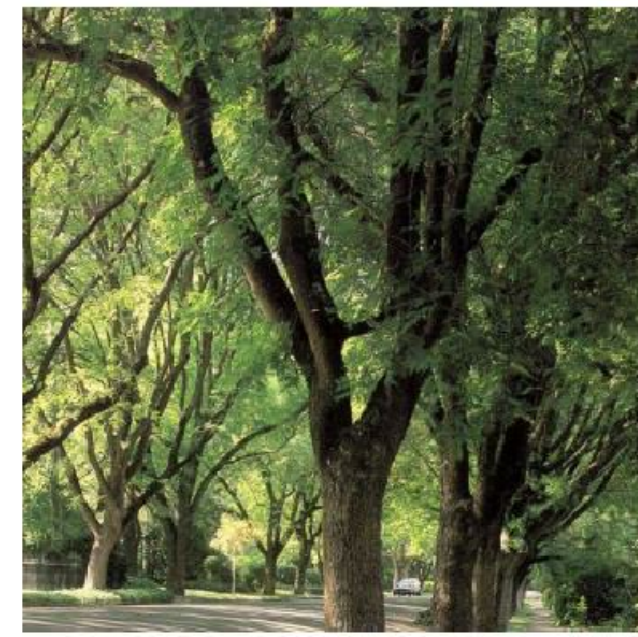


FOUNDATION PLANTING AT BUILDING



WOOD FENCING AT NEIGHBOUR





PARKING TREE



STREET TREE



NATIVE BUTTERFLY & HUMMINBIRD HABITAT



LARGE WEEPING SHRUBS AT GARAGE WALL



FLOWERING TREES



RUSHES AT RETENTION AREA

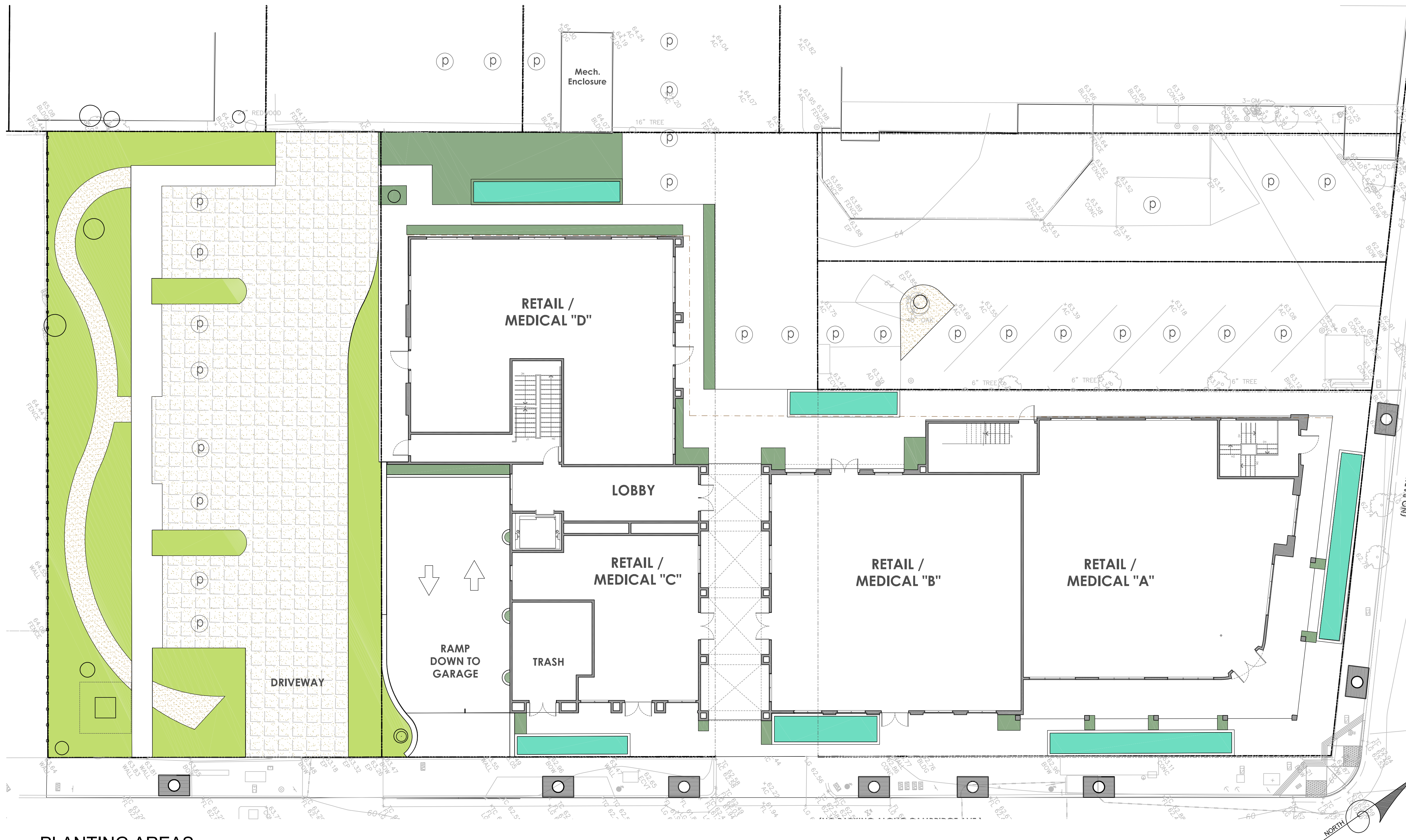


FOUNDATION PLANTING AT BUILDING

## PLANT LIST

CODE	BOTANICAL NAME	COMMON NAME	SIZE	D	E	N	Dr	W	GENERAL DESCRIPTION	
<b>TREE LEGEND</b>										
CER BET	CERCOCARPUS PETULOIDES	CEROCARPUS					Dr		EV 5-18H15W ARCHING HABIT GREY GREEN	
COR EDD	CORNUS EDDIES WHITE WONDER	WHITE DOGWOOD	15 GAL						DEC 20-30T 25-30W WHT	
LAG NAT	LAGERSTROEMIA 'NATCHEZ'	WHITE DRAPE NORTLE	15 GAL				Dr		DEC 25H12W WHT ORG RED FALL	
MAG ELI	MAGNOLIA 'ELIZABETH'	YELLOW MAGNOLIA	15 GAL				D		DEC 20-30H 20W FRAG YEL	
MAG SOU M	MAGNOLIA SOULANGIANA MULTI	SALICER MAGNOLIA	15 GAL				D		DEC 20H 20W PINK FRAG	
PIST CHI	PISTACIA CHINENSIS	CHINESE PISTACHE	15 GAL				Dr		DEC 50H4W MED-DEEP ROOTS RED FALL SLOW TO MDD GROWTH	
PLAT ACE B	PLATANUS ACERIFOLIA BLOODEGOOD	SYCAMORE	24" BOX				Dr	C	DEC 60H3W FAST YELLOW FALL COLOR	
<b>SHRUB &amp; VINE LEGEND</b>										
AGA ATT	AGAVE ATTENUATA	LION'S TAIL	5 GAL				Dr		EV 30W10H SOFT POINTS BOLD TEXTURE GREEN FLWR	
ALO ARB	ALOE ARBORESCENS	TORCH ALOE	5 GAL							
ALO STR	ALOE STRIATA	CORAL ALOE	5 GAL						EV 20W20H SPINES PINK EDGES CORAL PINK FLWR	
AME ALN	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	5 GAL				E	N	DEC 18H10W TO THICKETS LIGHT GREEN WHT FLWR RED-YEL FALL EDIBLE W. BLUE BERRIES MEDICINAL. BARK W. OBER DRED FOR ARROWS TOOLS SHELTER PROTECT BY KEELS HEIGE ANIZUREAK	
AZA GEI 2	AZALEA GEISHA 2	GEISHA 2 AZALEA	5 GAL						WHT	
ARC BAK L	ARCTOSTAPHYLOS BAKERI LOUIS EDWARDS'	LUIS EDWARDS MANZANITA	5 GAL				N	Dr	EV 3-10H5-10W PINK PUR TRUNK GRAY BRNLL FL	
ART LEN	ARTILEX LENTIFORMIS	QUAIL BUSH	1 GAL				D	N	Dr	SEM EV 4-10H4-10W 10CM WHIT FLWR BLUE SILVER LVS QUAIL BIRD HEDGE W. WINDBREAK EROSION
BOU SPEC	BOUGANVILLEA SPECIES	BOUGANVILLEA	5 GAL						DEC VINE YELLO-ORANGE TO PINKISH PURPLE	
CAL CIT	CALLISTEMON CITRINUS	BOTTLE BRUSH	5 GAL				D	N	EV 18-18H15W LEMON SCENT FOL BEEES HUM BIRD CAN BE TRAINED AS TREE	
CAL OCC	CALYCANTHUS OCCIDENTALIS	SPICEBUSH	5 GAL				D	N	Dr	W DEC 4-12H 4-12W RED-BROWN FRAG W
CAR CAL	CARPENTERIA CALIFORNICA	BUSH ANEMONE	5 GAL				D	N	Dr	EV 1.4H 0.8Y BRG WHT SPR SUM PART SHADE
DEU GRA	DEUTZIA GRACILIS	DWARF DEUTZIA	5 GAL							
JAS OFF	JASMINUM OFFICINALE	COMMON JASMINE	1 GAL						EV 12H VINE WHIT FRAG	
LEV SAF	LEUCODENDRON SAFAFI SUNSHINE	PINK LEUCODENDRON	5 GAL						EV 30H4W PINK FU CHA F LWRS	
RIB AUR	RIBES ALUREUM	GOLDEN CURRANT	5 GAL				D	Dr	W DEC 3.4H 0.8Y YEL FRAGRANT LIGHT GRN LVS FRUIT YEL-BLK	
WES FRT M	WESTRINGIA FRUTICOSA MORNING LIGHT	VARIGATED COAST ROSEMARY	5 GAL				D	Dr	EV 30W LAV. GREY FOL	
<b>PERENNIAL LEGEND</b>										
AGA BLU	AGASTACHE 'BLUE FORTUNE'		4" POT				D	Dr	35 CM DEEP BLU BLUF HAN BRD	
AGA SUM	AGASTACHE 'SUMMER BREEZE'	GIANT HYSSOP	4" POT				D	Dr	3.4H 0.8Y APRICOT PINK FORT	
AGV ATT B	AGAVE ATTENUATA BLUE FLAME	BLUE AGAVE	1 GAL						EV	
ASC TUB	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	4" POT				D		3H 1Y CRIBUTLS	
ECH GER	ECHVEVERIA GERANIUM		1 GAL						EV 14H 10Y GRAY CURLY LVS SUMMER SUN SHADE	
ECH	ECHVEVERIA Topsy TURVY		1 GAL						EV 10H 10Y YEL-OR SUCCULENT GRAY CURLY LVS SUMMER SUN SHADE	
JUN PAT	JUNCUS PATENS	WIRE GRASS	1 GAL				D	N	Dr	1-2H 12W BUSH LVS WET AREA TOL DROUGHT
PEN CEN	PENTSTEMON CENTRANTHIFOLIUS	SCARLET BUGLER	4" POT				D	N	Dr	W EV 2.3H 2W RED GRAY LVS HERB BEE
PEN HET	PENTSTEMON HETEROPHYLLUS	FOOTHILL PENSTEMON	4" POT				D	N	Dr	W EV 1.2-1.8H BLUE FADE TO PINK (PN BUTL) HERB BEE





**PLANTING AREAS**

**LEGEND**

- NATIVE HABITAT PLANTING  
VERY LOW WATER USE  
HYDROZONE 1
- FOUNDATION PLANTING  
-MODERATE WATER USE  
HYDROZONE 2  
-LOW WATER USE  
HYDROZONE 3
- BIODETENTION PLANTING  
MODERATE WATER USE  
HYDROZONE 4
- WALK-ON BARK MULCH  
VERY LOW WATER USE  
HYDROZONE 5

**PROJECT DATA**

CONTACT INFORMATION: SANDRA REED LANDSCAPE ARCHITECT  
ZAC LANDSCAPE ARCHITECTS  
(707) 696-2967 sr@zaclandscape.com

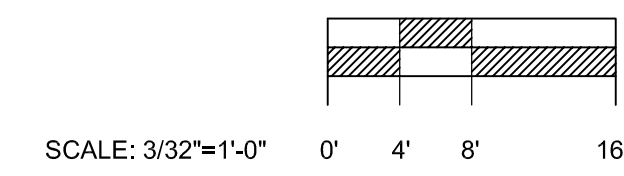
TOTAL LANDSCAPE AREA: 4,569 SF  
PROJECT TYPE: REHABILITATED PRIVATE RESIDENCE  
WATER SUPPLY TYPE: POTABLE WATER  
STATEMENT:

I HAVE TO COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN.

SIGNED: Need DATE: 02-13-2018

SOIL: ALL LANDSCAPE AREAS SHALL INCORPORATE COMPOST AT A RATE OF AT LEAST FOUR CUBIC YARDS PER 1,000 SQUARE FEET TO A DEPTH OF SIX INCHES.

MULCH: A MINIMUM THREE INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS .



**Maximum Applied Water Allowance**

The following calculations will help you determine your site specific water budget and establish a planting mix that will allow you to meet your water budget. Your Estimated Total Water Use must be less than your Maximum Applied Water Allowance.

1.) **Maximum Applied Water Allowance (MAWA) - COMMERCIAL**

MAWA = (ET<sub>a</sub>) (0.62) [(0.45 x LA) + (0.55 x SLA)]

Where:  
 ET<sub>a</sub> = Annual Net Reference Evapotranspiration (inches)  
 0.45 = ET Adjustment Factor  
 LA = Landscaped Area (square feet)  
 0.62 = Conversion factor (to gallons per square foot)  
 SLA = Portion of the landscape area identified as Special Landscape Area (square feet)  
 0.55 = Additional ET adjustment factor for Special Landscape Area (1.0 - 0.45 = 0.55)

A.) **Net Evapotranspiration Calculation**

44.03	Annual ET <sub>a</sub>
20.83	Annual Rainfall
23.20	Net Evapotranspiration

Net Evapotranspiration Calculation = Annual ET<sub>a</sub> - Effective Rainfall = 23.20

B.) **Adjusted Landscape Area Calculation**

4569	Landscaped Area	x 0.45	2056.05
0	Special Landscaped Area	x 0.55	0
Sum of Adjusted Landscape Area			2056.05

MAWA = 23.20 x 0.62 x 2056.05 = 4840.5 gallons

2.) **Estimated Total Water Use (ETWU)**

A.) **Net Evapotranspiration Calculation**

20.83	Annual Rainfall
23.20	Net Evapotranspiration

Net Evapotranspiration Calculation = Annual ET<sub>a</sub> - Effective Rainfall = 23.20

B.) **Adjusted Landscape Area Calculation**

3036	Very low water use plant right	x 0.7	2125.2
679	Low water use plant right	x 0.3	203.7
854	Moderate water use plant right	x 0.6	512.4
0	High water use plant right	x 1.0	0
Sum of Adjusted Landscape Area			1,839

ETWU = 23.20 x 0.62 x 1,839 / 0.81 = 2903 gallons

4569	Square footage of landscape on site
0	Square footage of landscape on spray
4569	Total square footage of landscape
0.81	Adjusted Irrigation Efficiency Factor

**HYDROZONE INFORMATION TABLE**

HYDROZONES	WATER USE	IRRIGATION METHOD	AREA (SQ. FT.)	% OF TOTAL LANDSCAPE AREA
1	VERY LOW	DRIP	2,426	53%
2	MODERATE	DRIP	187	4%
3	LOW	DRIP	679	15%
4	MODERATE	DRIP	667	15%
5	VERY LOW	NON IRRIGATED	610	13%
TOTAL AREA			4,569	100%

**SUMMARY HYDROZONE TABLE**

WATER USE	AREA (SQ. FT.)	% OF TOTAL LANDSCAPE AREA
VERY LOW	3,036	66%
LOW	679.00	15%
MODERATE	854.00	19%
HIGH	-	0%
SPECIAL LANDSCAPE	-	0%
TOTAL	4,569.00	100%

DRIP IRRIGATION AREA	4,569.00	100%
SPRAY IRRIGATION AREA	-	0%
TOTAL LANDSCAPED AREA	4,569.00	0%

DATE  
05-30-2018

201 EL CAMINO REAL  
MENLO PARK, CALIFORNIA 94025

SHEET TITLE  
WATER USE CALCULATIONS

SHEET NUMBER  
L3.0

Advanced Tree Care  
Certified Arborist IWE 1936a  
P.O. BOX 5326  
Redwood City, California 94063

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