

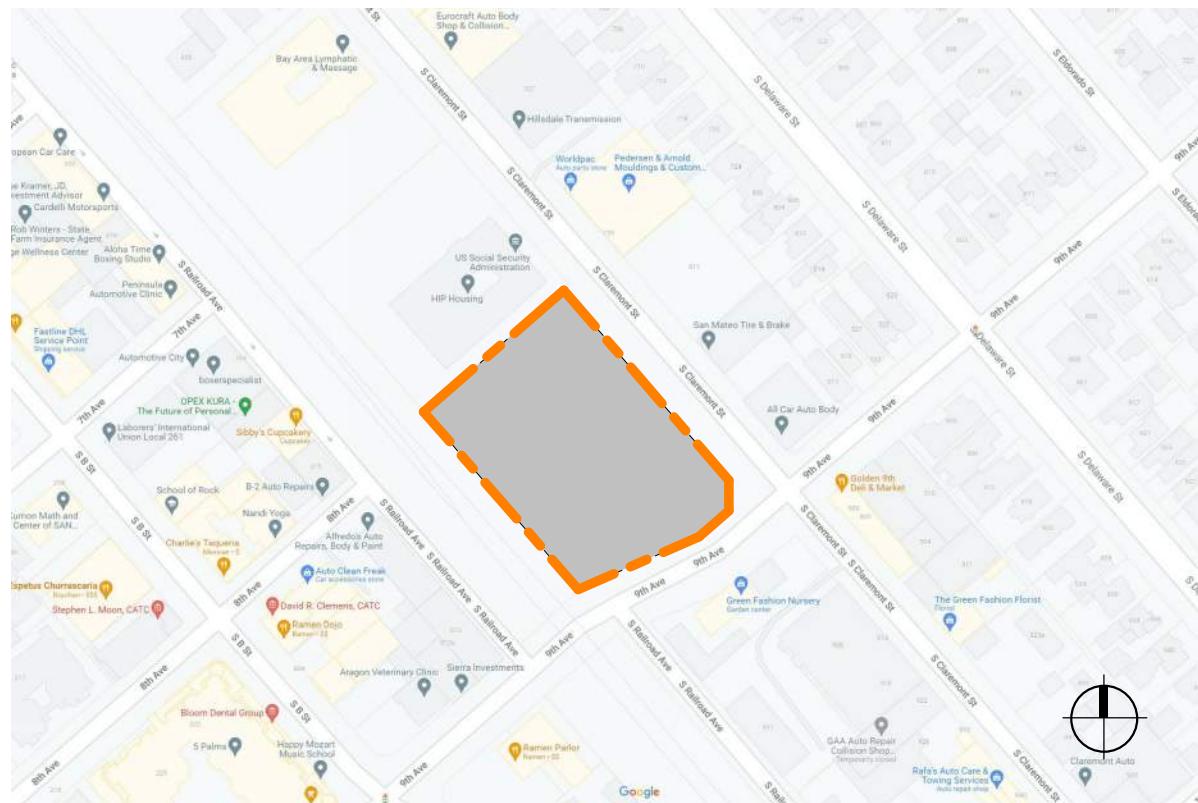
# 477 9TH AVE

MIXED-USE DEVELOPMENT





PERSPECTIVE 5



SITE MAP 4

THE PROPOSED PROJECT CONSISTS OF DEMOLITION OF AN APPROXIMATELY 21,600 SQUARE FOOT, SINGLE-STORY OFFICE BUILDING AND SURFACE PARKING THAT WAS CONSTRUCTED IN THE EARLY-1980'S. THE 1.6-ACRE SITE WOULD BE REDEVELOPED WITH 120 RENTAL DWELLING UNITS (80 UNITS ALLOWED BY ZONING AND 40 "BONUS" UNITS AUTHORIZED BY THE DENSITY BONUS LAW) CONSTRUCTED OVER APPROXIMATELY 27,076 SQUARE FEET OF OFFICE USES WITHIN A FIVE-STORY, 53'-6"-FOOT TALL BUILDING. THE PROJECT WOULD ALSO INCLUDE A NUMBER OF RESIDENTIAL AMENITIES AND OPEN SPACES, INCLUDING AN APPROXIMATELY 1,765 SQUARE FOOT FITNESS CENTER FOR RESIDENTS, A 2,639 SQUARE FOOT LOUNGE AREA, A 760 SQUARE FOOT RESIDENCE "CLUB AREA," AS WELL AS A 649 SQUARE FOOT ROOF DECK AND 8,944 SQUARE FOOT CENTRAL COURTYARD COMMON AREA. THE BUILDING WOULD INCLUDE A 3,262 SQUARE FOOT LOBBY/LEASING OFFICE AREA. THE PROJECT WOULD PROVIDE 141 VEHICLE PARKING SPACES IN AN ABOVE-GROUND GARAGE AND 9 SURFACE PARKING SPACES, FOR A TOTAL OF 150 VEHICLE PARKING SPACES; AND 132 LONG-TERM BICYCLE PARKING SPACES IN A SECURE AREA AND 12 SHORT-TERM BICYCLE PARKING SPACES. PROJECT WILL HAVE 12 TOTAL BMR UNITS.

## PROJECT SUMMARY 3

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AP0.02	PROJECT DATA SUMMARY
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AP0.05	PERSPECTIVE
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### PROJECT INFORMATION

AP0.01

UNIT AND AREA SUMMARY										JOB: TMG - 477 9TH AVE, SAN MATEO			
CONSTRUCTION TYPE: TYPE VA O/ TYPE IA PODIUM										FLOORS: 3 WOOD OVER 2 CONCRETE			
BONUS PROJECT													
UNIT TYPE	NAME	DESCRIPTION	Unit Net Rentable	1ST	2ND	3RD	4TH	5TH	ROOF	Unit Total	Rentable Area by Type		
STUDIO	S1.0	STUDIO	543	-	-	6	6	6	-	18	15%	9,774	
	S2.0	STUDIO W/ WFH	543	-	-	2	2	2	-	6	5%	3,258	
				0	0	8	8	8	0	24	20%	13,032	
1 BEDROOM	A1.0	1 BDRM	738	-	-	2	2	2	-	6	5%	4,428	
	A1.1	1 BDRM W/DEN	808	-	-	1	1	1	-	3	3%	2,424	
	A1.2	1 BDRM W/DEN	787	-	-	1	1	1	-	3	3%	2,361	
	A2.0	CORNER 1 BDRM W/ WFH	714	-	-	7	7	7	-	21	18%	14,994	
	A2.1	CORNER 1 BDRM W/ WFH	708	-	-	1	1	1	-	3	3%	2,124	
	A2.2	CORNER 1 BDRM W/ WFH	701	-	-	1	1	1	-	3	3%	2,103	
	A3.0	1 BDRM	677	-	-	1	-	-	-	1	1%	677	
	A3.1	1 BDRM W/ DEN	740	-	-	2	3	3	-	8	7%	5,920	
	A3.2	1 BDRM	677	-	-	1	-	-	-	1	1%	677	
	A3.3	1 BDRM	710	-	-	1	1	1	-	3	3%	2,130	
	A3.4	1 BDRM	740	-	-	1	1	1	-	3	3%	2,220	
	A3.5	1 BDRM	693	-	-	1	1	1	-	3	3%	2,079	
	A3.6	1 BDRM W/ DEN	736	-	-	1	1	1	-	3	3%	2,206	
	A4.0	CORNER 1 BDRM	657	-	-	1	1	1	-	3	3%	1,971	
				0	0	21	22	21	0	64	53%	46,316	
1 BDRM SUB-TOTAL				0	0	21	22	21	0	64	53%	46,316	
2 BEDROOM	B1.0	2 BDRM/2 BATH	1,084	-	-	1	1	1	-	3	3%	3,252	
	B1.1	2 BDRM/2 BATH W/ DEN	1,150	-	-	1	1	2	-	4	3%	4,600	
	B1.2	2 BDRM/2 BATH	1,095	-	-	1	1	1	-	3	3%	3,285	
	B1.3	2 BDRM/2 BATH	1,084	-	-	1	1	1	-	3	3%	3,252	
	B1.4	2 BDRM/2 BATH W/ DEN	1,149	-	-	1	1	1	-	3	3%	3,447	
	B1.5	2 BDRM/2 BATH W/ DEN	1,143	-	-	-	1	1	-	2	2%	2,286	
	B2.0	2 BDRM/2 BATH W/ WFH	1,112	-	-	1	1	1	-	3	3%	3,336	
	B3.0	2 BDRM/2 BATH	938	-	-	1	1	1	-	3	3%	2,814	
	B4.0	2 BDRM/2 BATH W/ WFH	962	-	-	1	1	1	-	3	3%	2,946	
	B5.0	2 BDRM/1 BATH W/ WFH	911	-	-	1	1	-	-	2	2%	1,822	
	B6.0	2 BDRM/2 BATH W/ DEN	1,134	-	-	1	1	1	-	3	3%	3,402	
				0	0	10	11	11	0	32	27%	34,442	
TOTAL UNITS	Avg SqFt	782	0	0	39	41	40	0	120	100%	93,790		
Net rentable residential area is measured center of demising wall, ext face of stud of ext wall, ext face of stud of corridor wall, excl decks													
Net rentable Residential by floor (excl decks)													
			0	0	30,154	32,037	31,599				93,790		
Gross area by floor (footprint minus net rentable, excl decks)													
			232	1,148	5,709	6,480	5,421				18,990		
Residential Amenities													
Leasing Office				3,262								3,262	
Residential Garage (Including Mechanical Areas)				14,796	31,343							46,139	
Residential Gross*												167,345	
Office				13,588	13,313							26,901	
Office Garage				14,958								14,958	
Office Gross*												41,859	
Total Gross*				46,836	47,569	38,502	38,517	37,780	0			209,204	

\*27.04.200 (2)(B) Excluded Floor Area: Multiple Level Stairwells and Elevators are counted once (at floor 1 only)

\*27.04.200 (2)(E) Excluded Floor Area: Bicycle Parking Facility

\*Pursuant to State Density Bonus Law, waiver requested to allow for additional FAR above 2.0

\*\*Consistent with 27.48.065, Open Space includes: Plaza, Planting & Pedestrian Circulation;

Excludes: Building Footprint and Vehicle Paving. Applicant is requesting relief pursuant

to State Density Bonus Law.

Zoning district: E2-2

#### VEHICLE PARKING SUMMARY

PROVIDED	REQUIRED
Total Provided parking	150
Compact Parking	75
Accessible Parking	9
Tandem Parking	2
Surface Parking	9
Guest Parking	8
	5%

Note: See detailed parking count tables for residential & Non residential parking

FLOOR AREA RATIO (FAR)		LOT COVERAGE***		REQUIRED	
Site Area	69,976	ALLOWABLE	139,952	20% LOT AT GRADE OPEN SPACE=	13,995
Base FAR = 2.0				PROVIDED	10,599
50% St Density Bonus FAR**					

#### BICYCLE PARKING

SHORT TERM	
1 STALL : 20,000 SF OFFICE	1.3
0.05 STALL : STUDIO & 1BED DU	4.4
0.10 STALL : 2 BED DU	3.2
TOTAL SHORT TERM	
	8.9

LONG TERM	
1 STALL: 10,000SF OFFICE	2.7
1 STALL : STUDIO & 1 BED DU	88.0
1.25 STALL : 2 BED DU	40.0
TOTAL LONG TERM	
	130.7

REQUIRED STALL TOTAL:	
	140

PROVIDED: SHORT TERM	



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MAXIMUM BUILDING HEIGHT: 55'-0" TO AVERAGE ROOF HEIGHT

OCCUPANCY GROUPS:

RESIDENTIAL	R-2
STORAGE (GARAGE)	S-2
ASSEMBLY (REAR YARD)	A-3
OFFICE SPACE	B

CONSTRUCTION TYPE:

R-2	TYPE VA, FULLY SPINKLERED
S-2	TYPE IA, FULLY SPINKLERED

THE BUILDING SHALL COMPLY WITH THE 2022 CFC SECTION 510 FOR ERRC COVERAGE.

ALLOWABLE GROSS FLOOR AREA / HEIGHTS / CONSTRUCTION TYPES

BASE ALLOWABLE AREA PER FLOOR PER CBC TABLE 503 FOR TYPE I-A:

S-2	UNLIMITED S.F.
R-2	UNLIMITED S.F.
A-3	UNLIMITED S.F.

BASE ALLOWABLE HEIGHT & STORIES PER CBC TABLE 503 FOR TYPE I-A:

S-2	UNLIMITED S.F.
R-2	UNLIMITED S.F.
A-3	UNLIMITED S.F.

BASE ALLOWABLE AREA PER FLOOR PER CBC TABLE 503 FOR TYPE V-A:

R-2	12,000 S.F.
-----	-------------

BASE ALLOWABLE HEIGHT & STORIES PER CBC TABLE 503 FOR TYPE V-A:

R-2	55 FEET / 3 STORIES
R-2	60 FEET / 4 STORIES W/ AUTOMATIC SPRINKLER SYSTEM

FIRE-RESISTANCE RATING REQUIREMENTS:

3 HOUR HORIZONTAL SEPARATION BETWEEN TYPE I-A & TYPE V-A REQUIREMENTS PER SECTION 510.2 HORIZONTAL BUILDING SEPARATION ALLOWANCE

FOR TYPE I-A CONSTRUCTION: FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS PER TABLE 601:

STRUCTURAL FRAME	3-HR	REDUCE TO 2-HR FOR ROOF SUPPORT
EXTERIOR BEARING WALLS	3-HR	
INTERIOR BEARING WALLS	3-HR	REDUCE TO 2-HR FOR ROOF SUPPORT
INT. NONBEARING WALLS	0-HR	
FLOOR CONSTRUCTION	2-HR	
ROOF CONSTRUCTION	1 1/2-HR	

TYPE V-A CONSTRUCTION: FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS PER TABLE 601:

STRUCTURAL FRAME	1 HR.
EXTERIOR BEARING WALLS	1 HR.
INTERIOR BEARING WALLS	1 HR.
EXTERIOR NONBEARING WALLS & PARTITIONS	SEE BELOW
INTERIOR NONBEARING WALLS & PARTITIONS	0 HR.
FLOOR CONSTRUCTION (BEAMS & JOISTS)	1 HR.
ROOF CONSTRUCTION (BEAMS & JOISTS)	1 HR.
SHAFT / STAIRWAY ENCLOSURES	2 HR.

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE FOR TYPE I-A, III-A AND V-A CONSTRUCTION AND OCCUPANCY PER TABLE 602:

<u>FIRE SEP. DIST.</u>	<u>OCCUPANCIES: GROUP A, M, R-2 &amp; S-2</u>
X < 5	1 HR.
5 ≤ X < 10	1 HR.
10 ≤ X < 30	1 HR.
X ≥ 30	0 HR.

ACCESSIBILITY

100% OF UNITS SHALL BE ADAPTABLE, PER CBC 2022 CHAPTER 11A  
ALL COMMON USE AREAS SHALL BE ACCESSIBLE PER CBC 2022 CHAPTER 11A  
ALL PUBLIC AREAS & OFFICE SPACE SHALL BE ACCESSIBLE PER CBC 2022 CHAPTER 11B

ENERGY

PROPOSED MIXED USE MULTIFAMILY RESIDENTIAL AND NON- RESIDENTIAL BUILDING WILL BE ALL-ELECTRIC PER THE CITY'S REACH CODE.

2022 CALIFORNIA BUILDING CODE & AMENDMENTS (CBC)  
2022 CALIFORNIA MECHANICAL CODE & AMENDMENTS (CMC)  
2022 CALIFORNIA PLUMBING CODE & AMENDMENTS (CPC)  
2022 CALIFORNIA ELECTRICAL CODE & AMENDMENTS (CEC)  
2022 CALIFORNIA ENERGY CODE  
2022 CALIFORNIA FIRE CODE & AMENDMENTS (CFC)  
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE  
2022 CALIFORNIA BUILDING CODE CHAPTER 11A  
2022 CALIFORNIA BUILDING CODE CHAPTER 11B  
2016 NFPA 13

## PROJECT SUMMARY 1

12" = 1'-0"

## APPLICABLE CODES 2

12" = 1'-0"

### CODE ANALYSIS

AP0.03



14



10



6



2



1



13



9



5



12



8



4



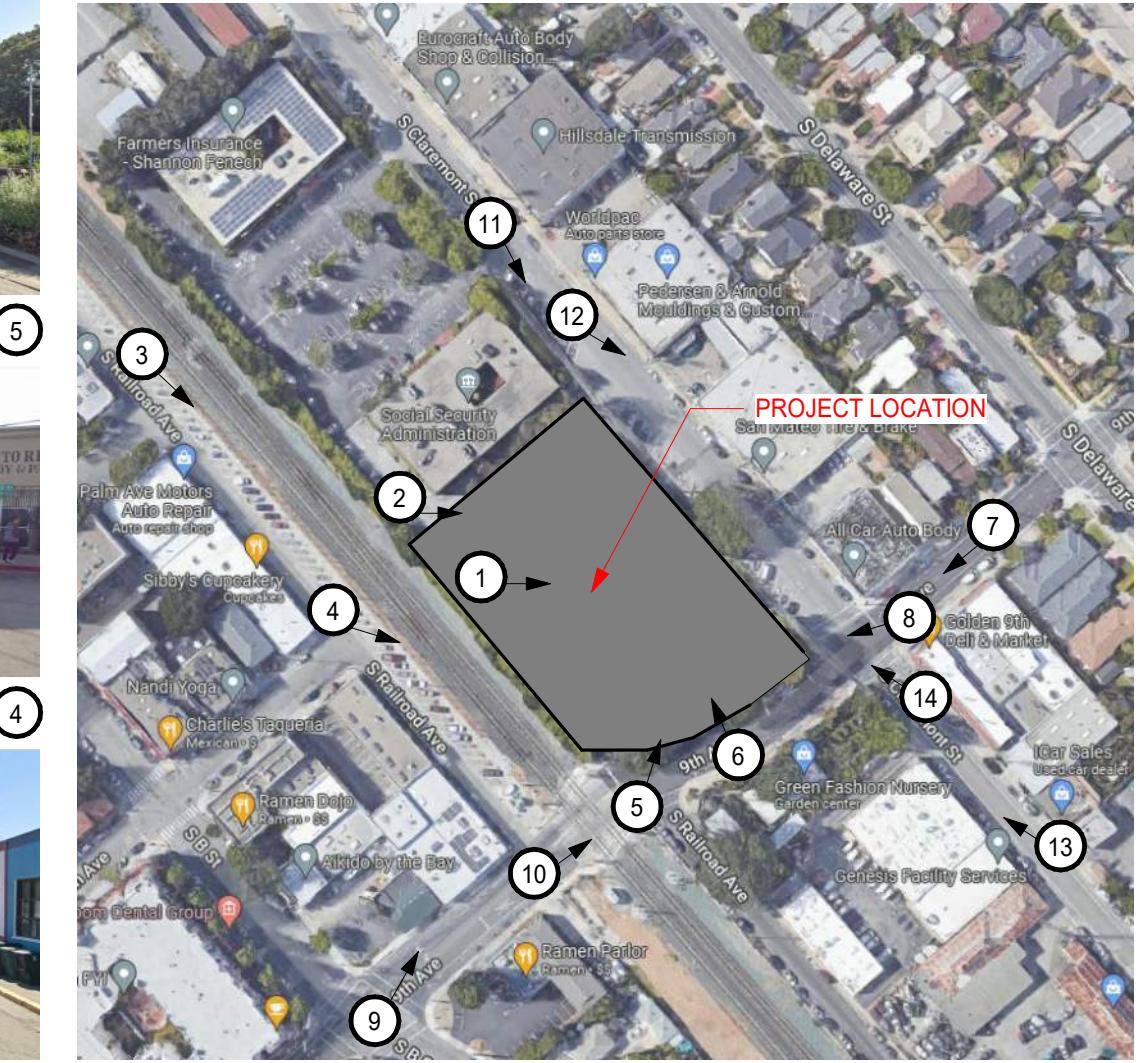
11



7



3



## SITE CONTEXT 2

1/4" = 1'-0"

## EXISTING CONDITIONS

477 9TH AVE

## SITE MAP 1

12" = 1'-0"

AP0.04

June 23, 2023



EAST ON 9TH AVE



477 9TH AVE

PERSPECTIVE

AP0.05

SAN MATEO, CA

June 23, 2023

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NORTH ON CLAREMONT AVE

PERSPECTIVE

AP0.06



SOUTH ON CLAREMONT ST

PERSPECTIVE

AP0.07

**BDE**  
ARCHITECTURE

477 9TH AVE

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June 23, 2023

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NORTH ON RAILROAD

PERSPECTIVE

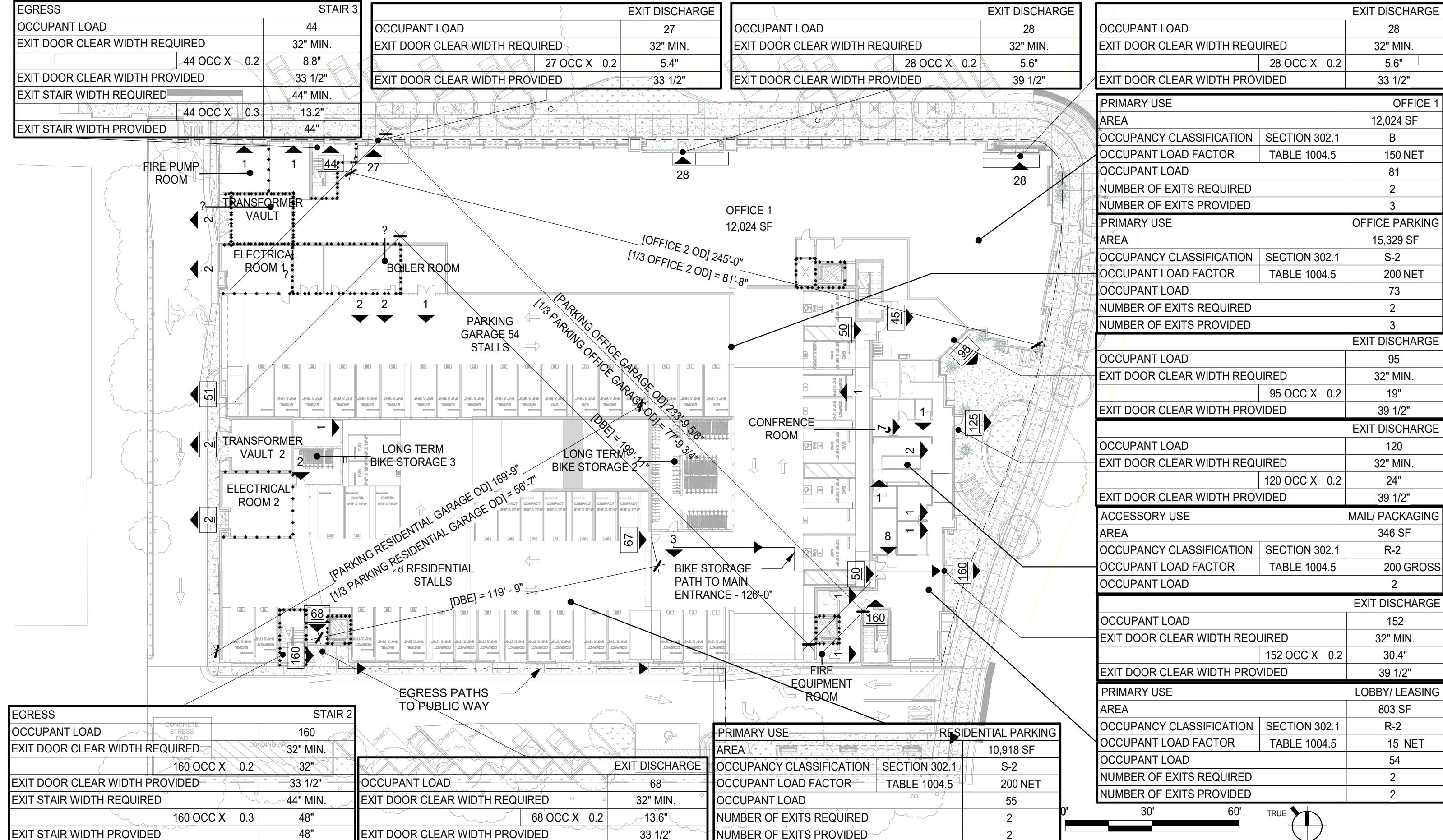
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**BDE**  
ARCHITECTURE

477 9TH AVE

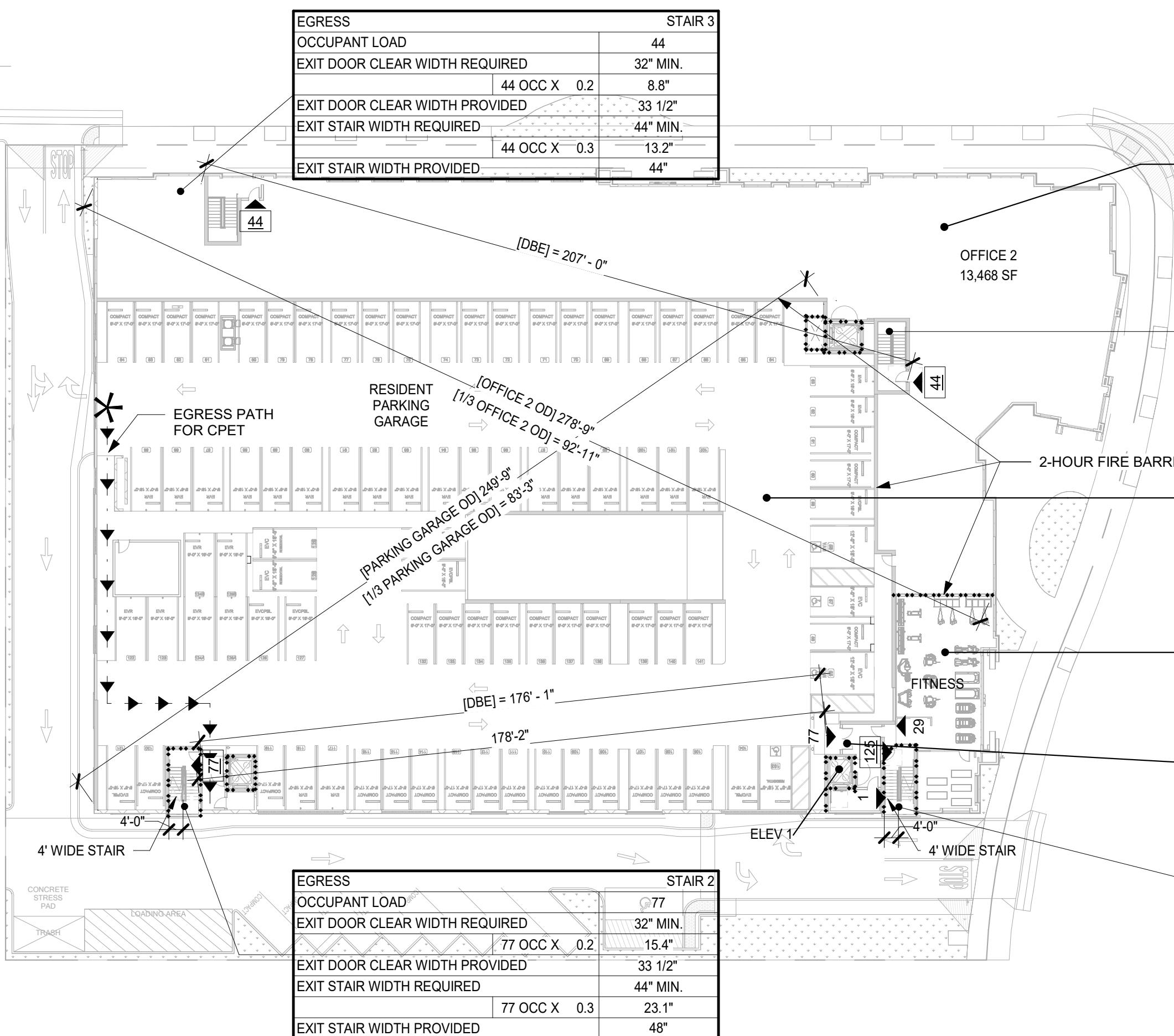
June 23, 2023

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EGRESS DIAGRAM - FLOOR 1

1" = 30' - 0" AP0.11



ACCESSORY USE	OFFICE 2
AREA	13,468 SF
OCCUPANCY CLASSIFICATION	SECTION 302.1
OCCUPANT LOAD FACTOR	TABLE 1004.5
OCCUPANT LOAD	150 GROSS
NUMBER OF EXITS REQUIRED	2
NUMBER OF EXITS PROVIDED	2

EGRESS	STAIR 4
OCCUPANT LOAD	44
EXIT DOOR CLEAR WIDTH REQUIRED	32" MIN.
44 OCC X 0.2	8.8"
EXIT DOOR CLEAR WIDTH PROVIDED	33 1/2"
EXIT STAIR WIDTH REQUIRED	44" MIN.
44 OCC X 0.3	13.2"
EXIT STAIR WIDTH PROVIDED	44"

PRIMARY USE	RESIDENT PARKING GARAGE
AREA	31,026 SF
OCCUPANCY CLASSIFICATION	SECTION 302.1
OCCUPANT LOAD FACTOR	TABLE 1004.5
OCCUPANT LOAD	200 GROSS
NUMBER OF EXITS REQUIRED	2
NUMBER OF EXITS PROVIDED	2

PRIMARY USE	FITNESS
AREA	1,133 SF
OCCUPANCY CLASSIFICATION	SECTION 302.1
OCCUPANT LOAD FACTOR	TABLE 1004.5
OCCUPANT LOAD	50 GROSS
NUMBER OF EXITS REQUIRED	2
NUMBER OF EXITS PROVIDED	2

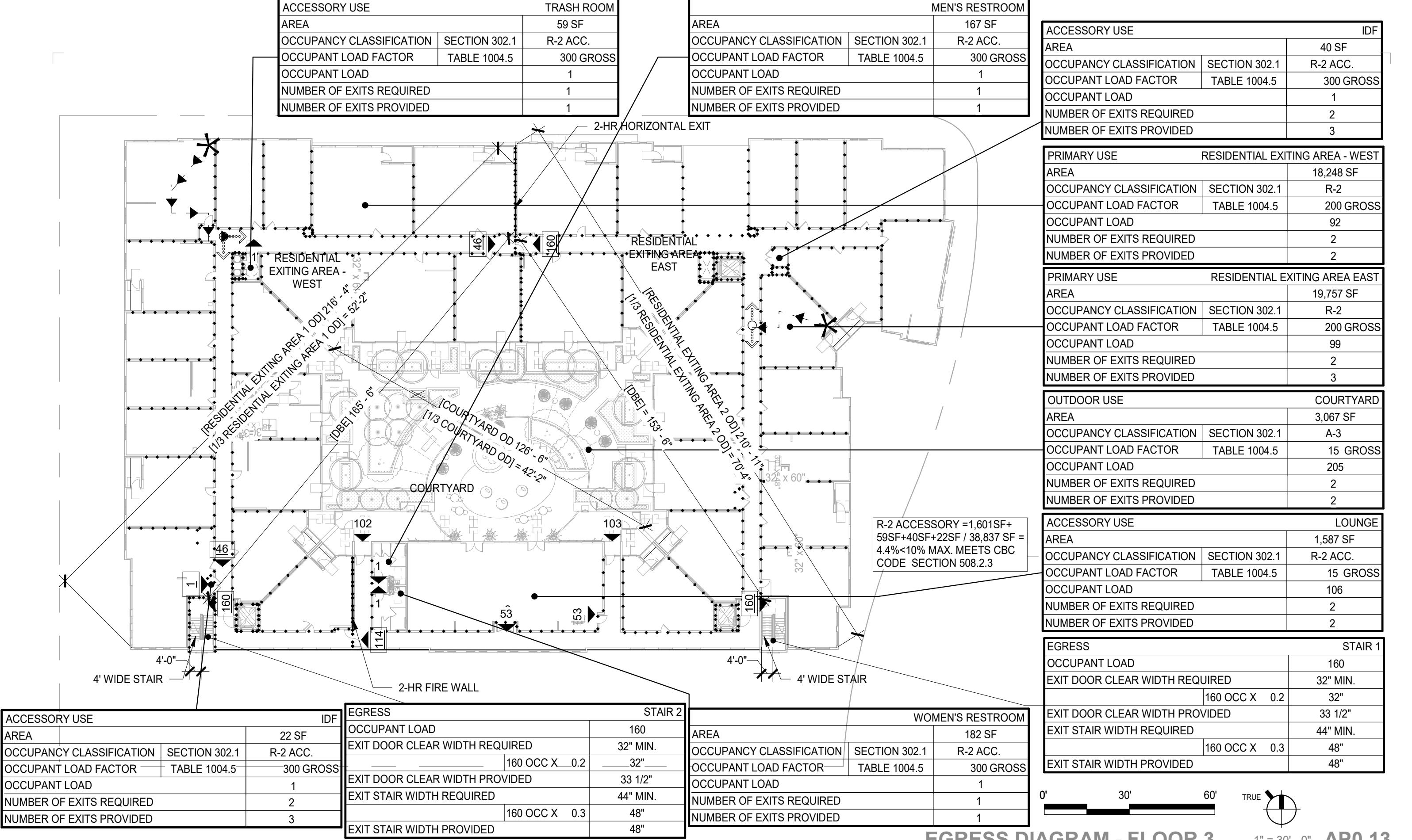
?	?
AREA	?
OCCUPANCY CLASSIFICATION	SECTION 302.1
OCCUPANT LOAD FACTOR	TABLE 1004.5
OCCUPANT LOAD	? GROSS

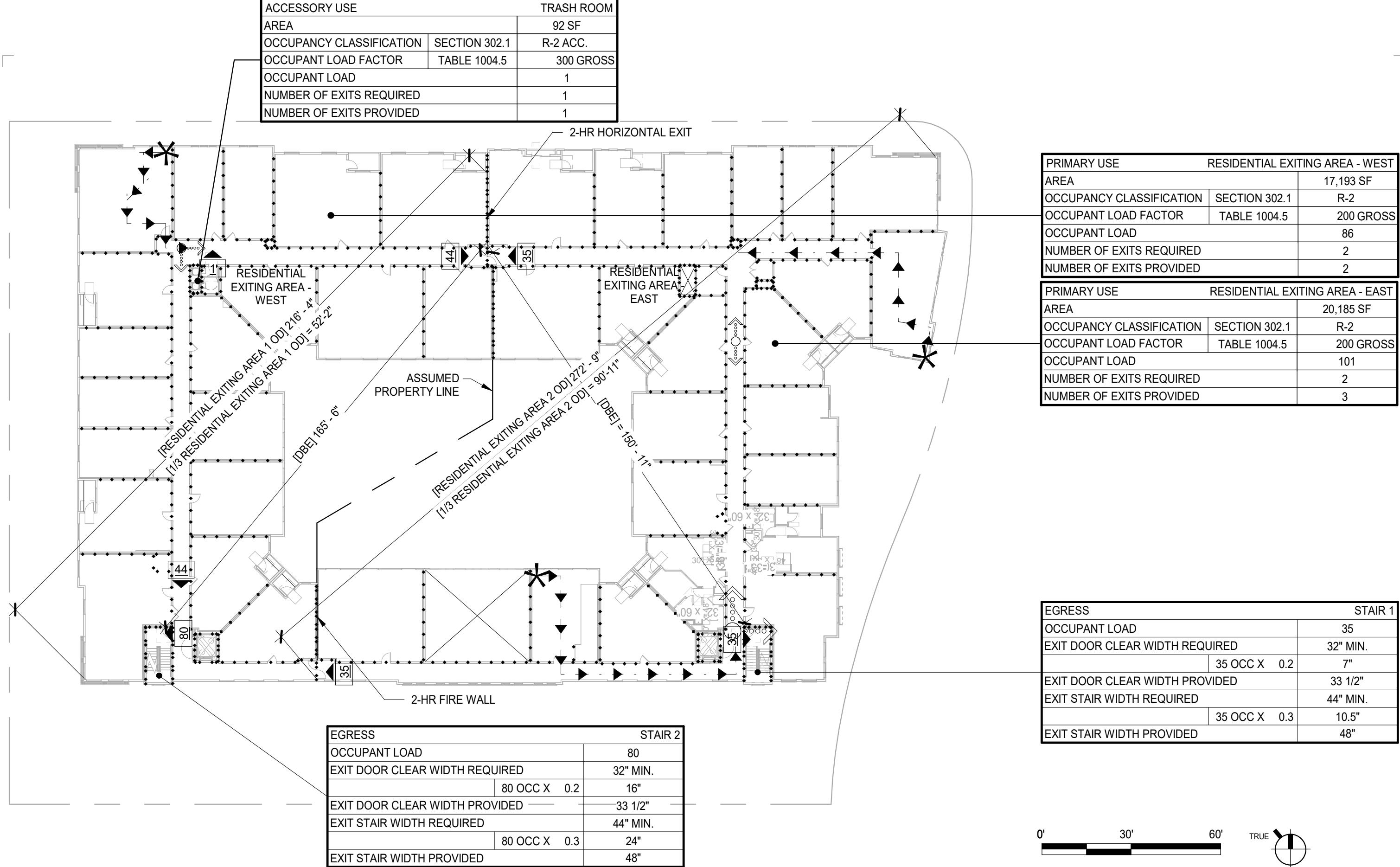
EGRESS	STAIR 1
OCCUPANT LOAD	125
EXIT DOOR CLEAR WIDTH REQUIRED	32" MIN.
125 OCC X 0.2	25"
EXIT DOOR CLEAR WIDTH PROVIDED	33 1/2"
EXIT STAIR WIDTH REQUIRED	44" MIN.
125 OCC X 0.3	37.5"
EXIT STAIR WIDTH PROVIDED	48"



EGRESS DIAGRAM - FLOOR 2

1" = 30' - 0" AP0.12

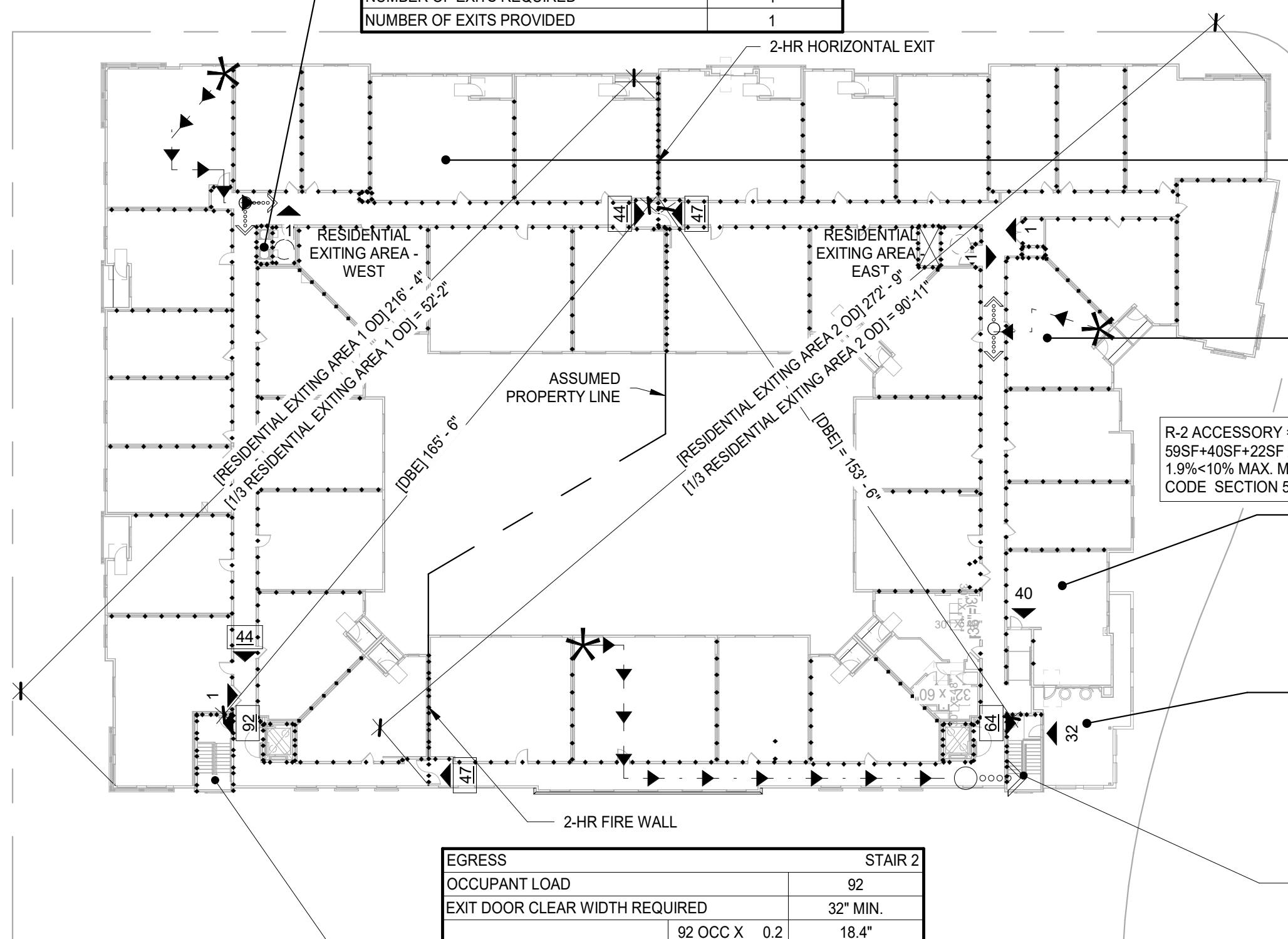




EGRESS DIAGRAM - FLOOR 4

1" = 30' - 0" AP0.14

ACCESSORY USE		TRASH ROOM
AREA	97 SF	
OCCUPANCY CLASSIFICATION	SECTION 302.1	R-2 ACC.
OCCUPANT LOAD FACTOR	TABLE 1004.5	300 GROSS
OCCUPANT LOAD	1	
NUMBER OF EXITS REQUIRED	1	
NUMBER OF EXITS PROVIDED	1	



PRIMARY USE	RESIDENTIAL EXITING AREA - WEST
AREA	17,204 SF
OCCUPANCY CLASSIFICATION	SECTION 302.1
OCCUPANT LOAD FACTOR	TABLE 1004.5
OCCUPANT LOAD	87
NUMBER OF EXITS REQUIRED	2
NUMBER OF EXITS PROVIDED	2

PRIMARY USE	RESIDENTIAL EXITING AREA - EAST
AREA	19,792 SF
OCCUPANCY CLASSIFICATION	SECTION 302.1
OCCUPANT LOAD FACTOR	TABLE 1004.5
OCCUPANT LOAD	99
NUMBER OF EXITS REQUIRED	2
NUMBER OF EXITS PROVIDED	3

ACCESSORY USE	CLUB ROOM
AREA	597 SF
OCCUPANCY CLASSIFICATION	SECTION 302.1
OCCUPANT LOAD FACTOR	TABLE 1004.5
OCCUPANT LOAD	15 NET
NUMBER OF EXITS REQUIRED	1
NUMBER OF EXITS PROVIDED	1

OUTDOOR USE	ROOF DECK
AREA	477 SF
OCCUPANCY CLASSIFICATION	SECTION 302.1
OCCUPANT LOAD FACTOR	TABLE 1004.5
OCCUPANT LOAD	15 NET
NUMBER OF EXITS REQUIRED	1
NUMBER OF EXITS PROVIDED	1

EGRESS	STAIR 1
OCCUPANT LOAD	64
EXIT DOOR CLEAR WIDTH REQUIRED	32" MIN.
	64 OCC X 0.2 12.8"
EXIT DOOR CLEAR WIDTH PROVIDED	33 1/2"
EXIT STAIR WIDTH REQUIRED	44" MIN.
	64 OCC X 0.3 19.2"
EXIT STAIR WIDTH PROVIDED	48"



EGRESS DIAGRAM - FLOOR 5

1" = 30' - 0" AP0.15

## SHEET NOTES

**A - LED WALL MOUNTED SCONCE LIGHT**  
WALL-MOUNTED LIGHT AT GROUND LEVEL  
EXTERIORS



CUBE ARCHITECTURAL 5", LED 49W  
DC-WD05-S840S-BK  
BY WAC LIGHTING

**A2 - LED WALL MOUNTED SCONCE LIGHT**  
WALL-MOUNTED LIGHT AT GROUND LEVEL  
EXTERIOR MAIN ENTRIES



SLEEPLESS, LED 19W  
WS-W43015-BK/AB  
BY WAC LIGHTING

**B - PROPOSED STREET LIGHT POLE**  
CITY STANDARD LIGHT



2020-CH-48W COBRA HEAD  
LUMINAIRE

**C - PROPOSED STREET LIGHT POLE**  
CITY STANDARD LIGHT



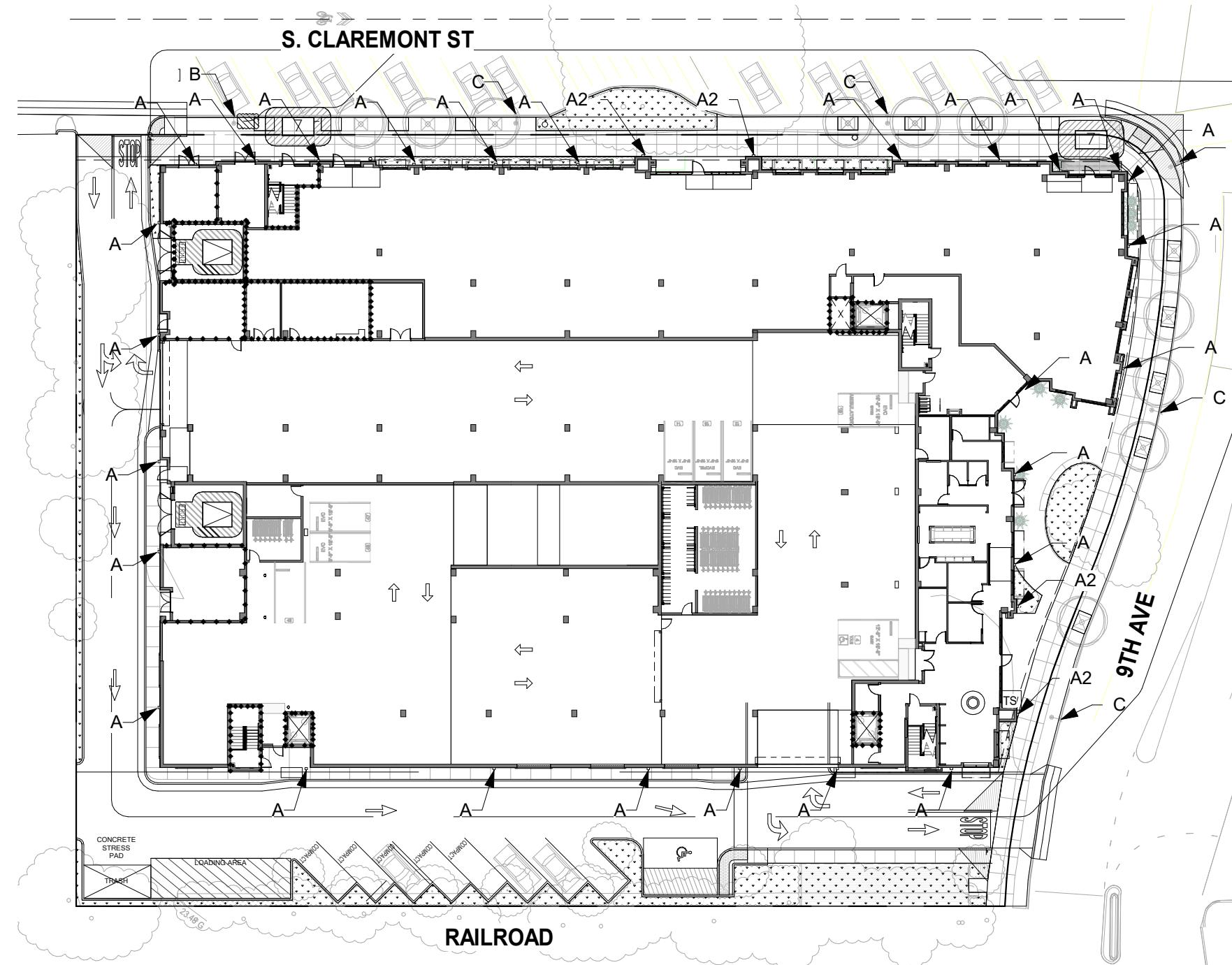
2020-CH-95W COBRA HEAD  
LUMINAIRE



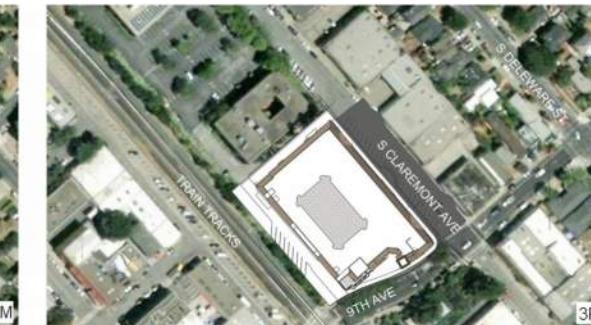
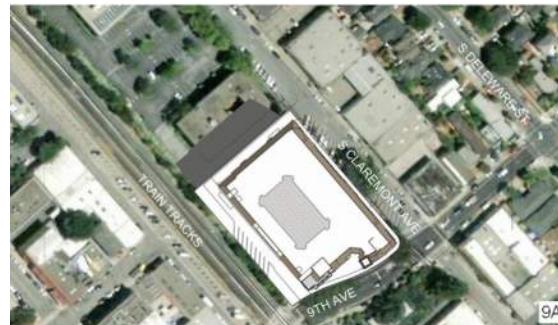
## EXTERIOR LIGHTING PLAN

1" = 30' - 0" AP0.20

June 23, 2023



477 9TH AVE



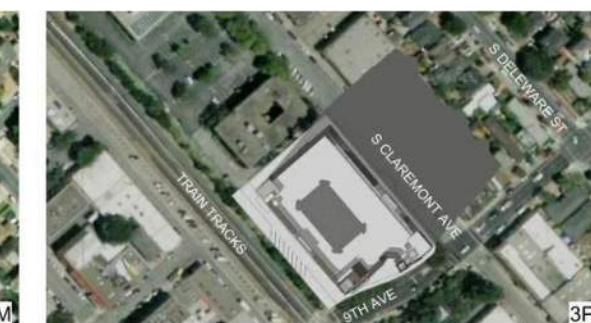
SPRING EQUINOX - 3/21 4



AUTUMN EQUINOX - 9/21 3



SUMMER SOLSTICE - 6/21 2

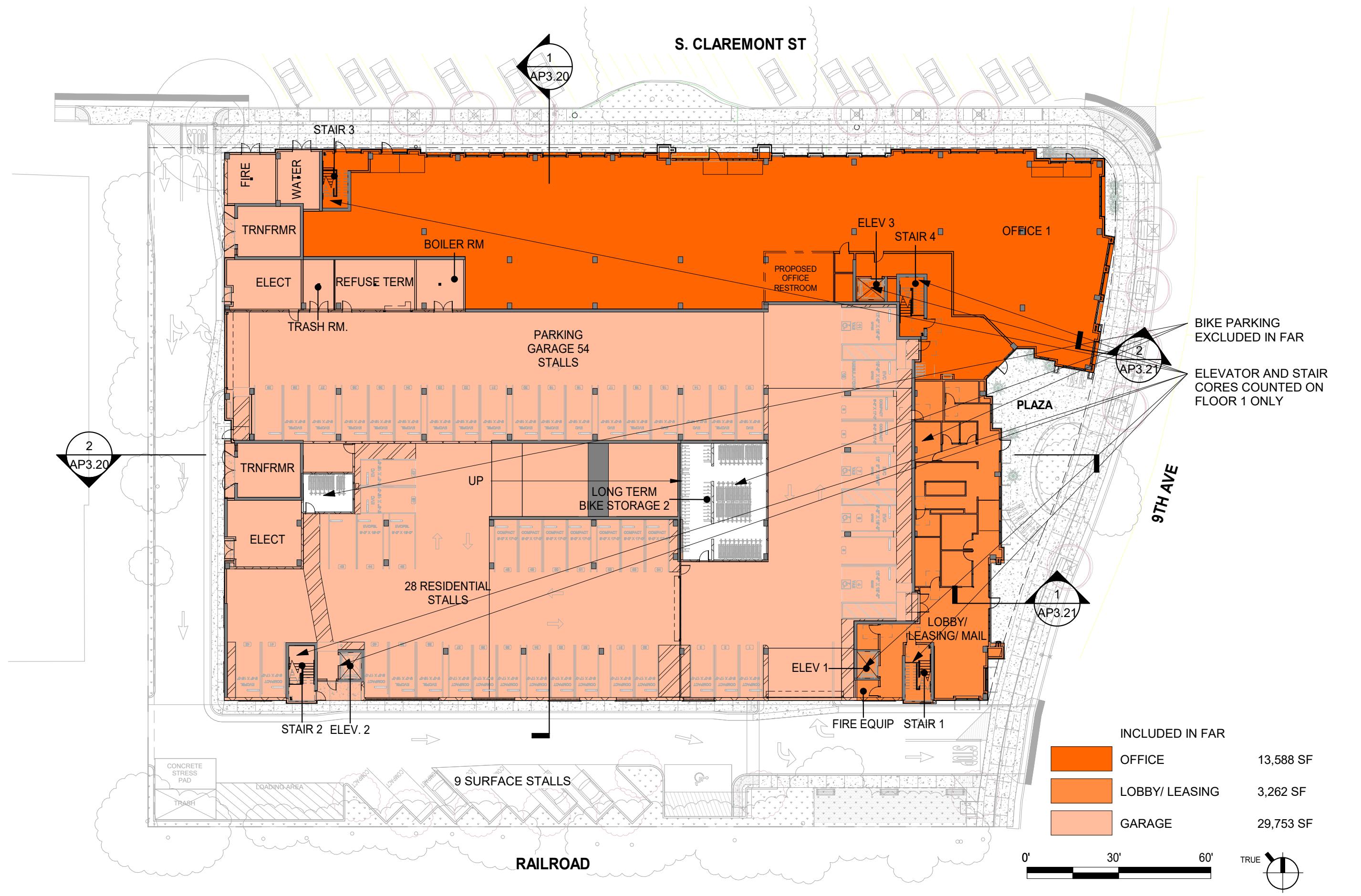


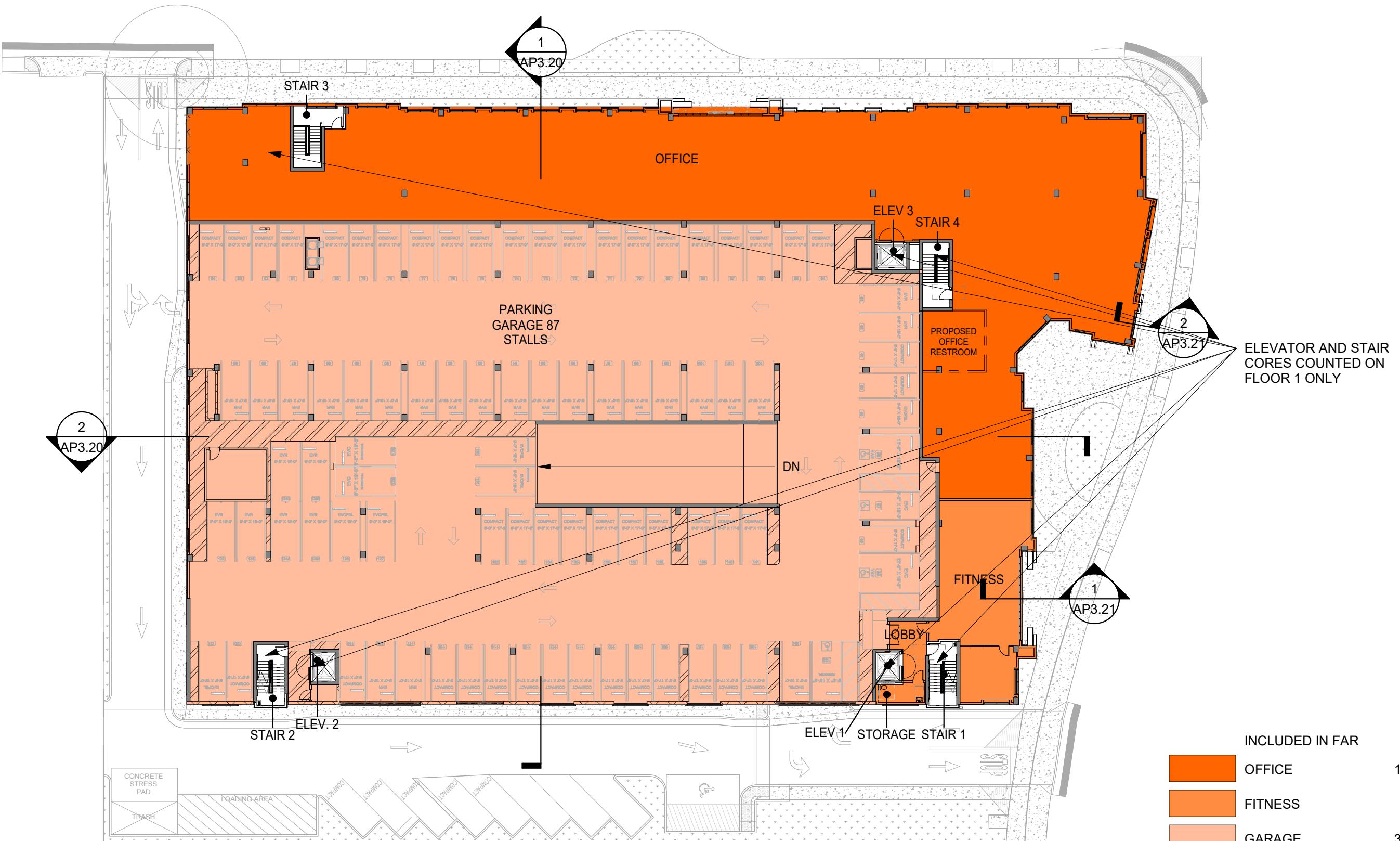
WINTER SOLSTICE - 12/21 1



SHADOW STUDIES

AP0.30

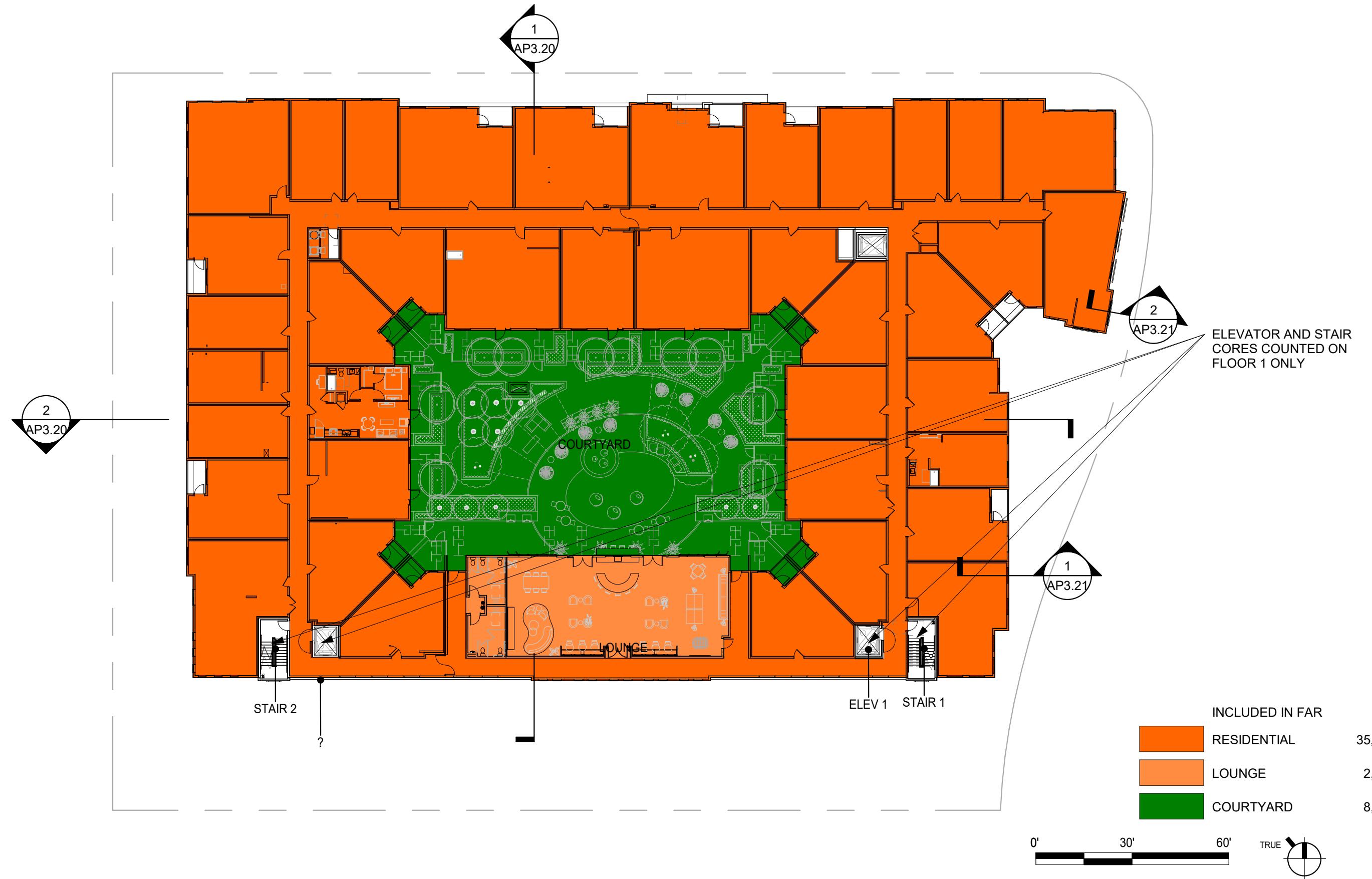


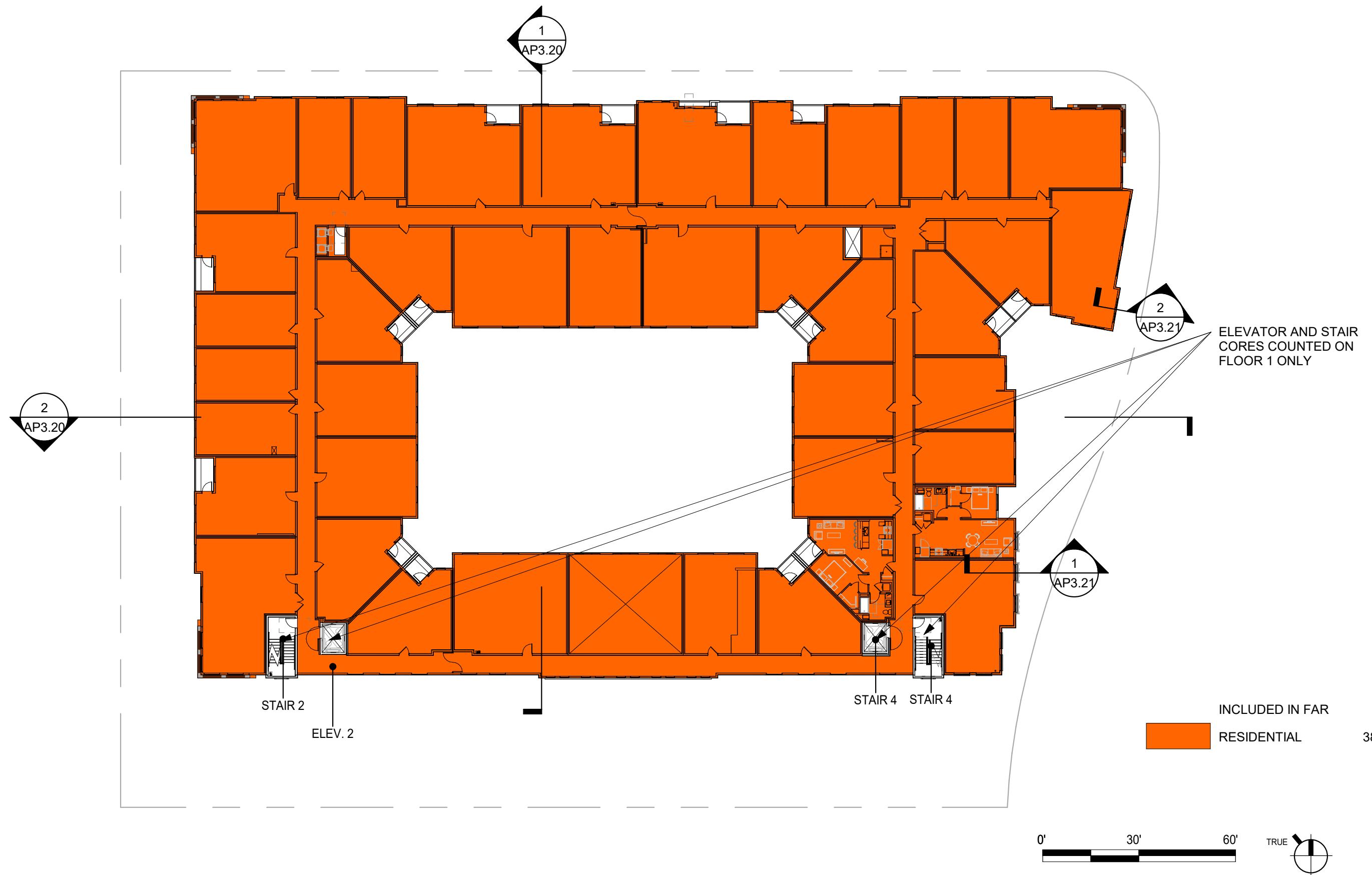


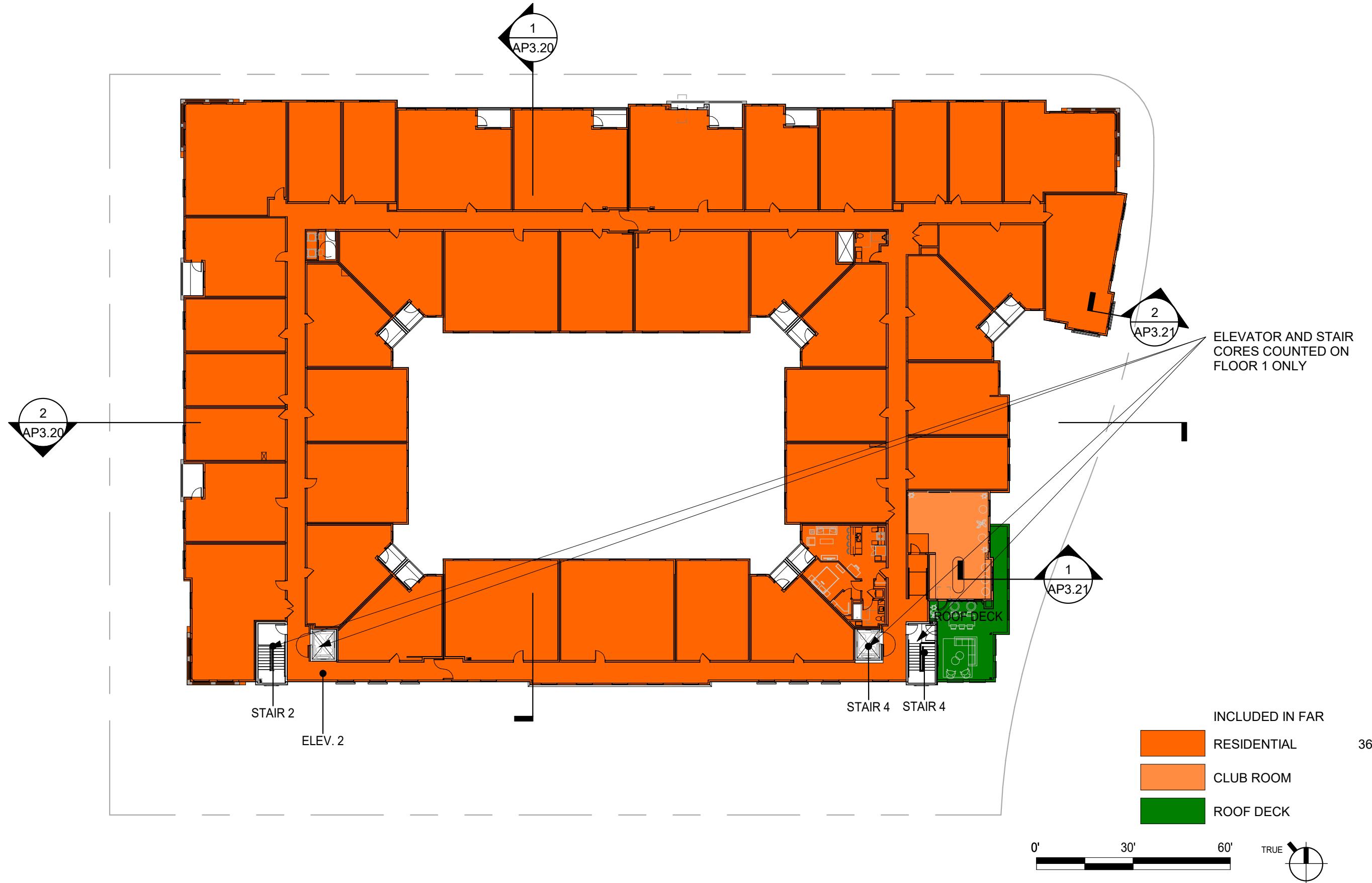
FAR DIAGRAM - FLOOR 2

AP0.32

477 9TH AVE







## ALLOWABLE BUILDING AREA CALCULATIONS

477 9TH AVE  
MARTIN GROUP  
LATEST UPDATE: MARCH 2, 2023

CALIFORNIA BUILDING CODE: 2022

NOTE: ALL BUILDINGS ARE FULLY SPRINKLERED PER NFPA 13

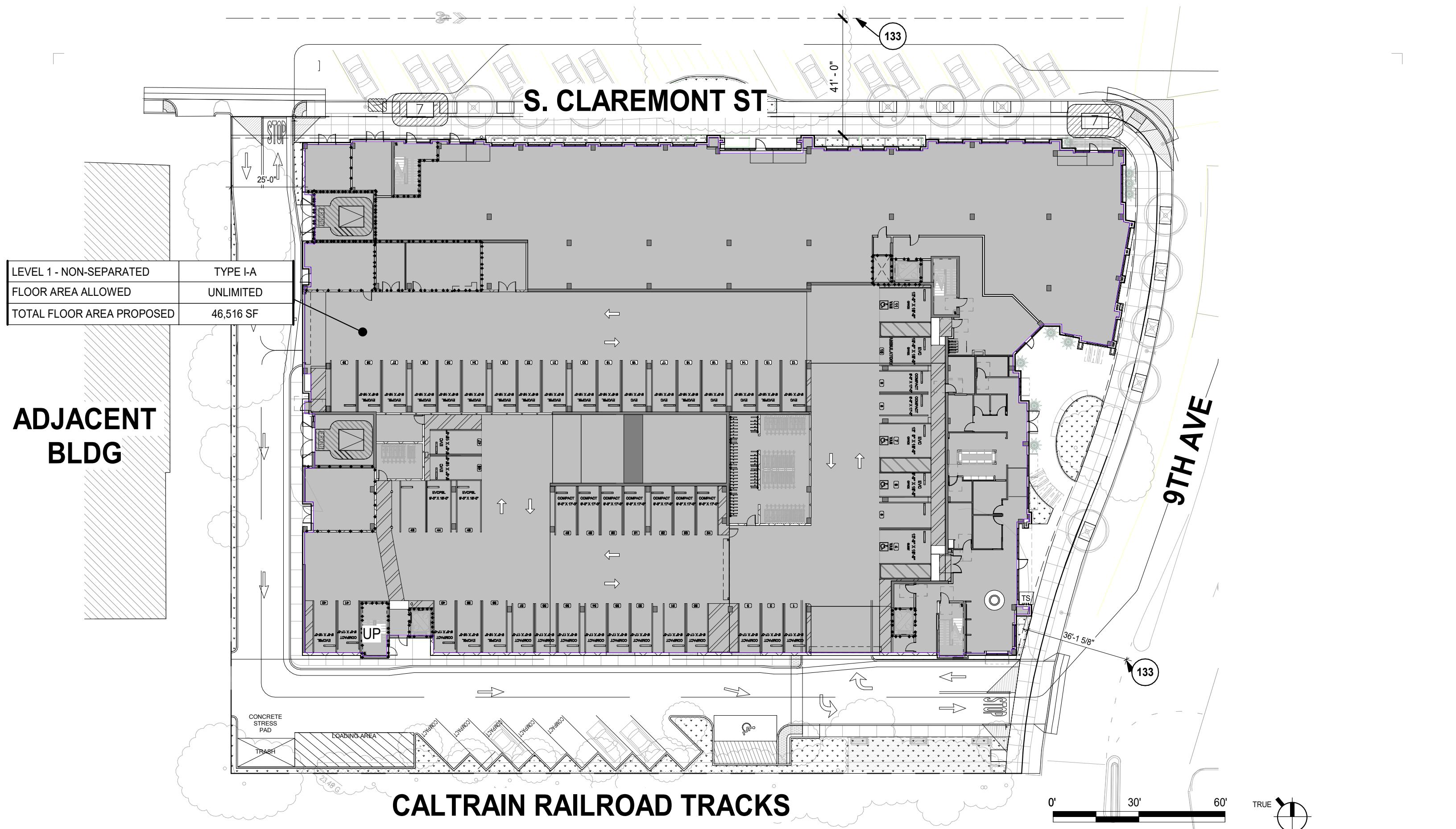
NOTE: PER TABLE 506.2, FOOTNOTE J, SPRINKLERED TYPE V-A R-2 OCCUPANCIES ARE ALLOWED AREA INCREASE IN ADDITION TO HEIGHT INCREASE TO 60 FEET AND STORY INCREASE TO 4

OCCUPANCY CHAPTER 3	USE TABLE 1004.5	CONSTRUCTION TYPE	ALLOWABLE TABULAR AREA TABLE 506.2	FRONTAGE ALLOWED % SEC. 506.3	ALLOWABLE AREA FACTOR SEC. 506.2.3	FRONTAGE ALLOWED SF SEC. 506.2.3	ALLOWABLE FLOOR AREA SEC. 506.2.3	MULTI-STORY ALLOWABLE SEC. 506.2.3	ALLOWABLE AREA SEC. 506.2.3	ALLOWABLE NO. STORIES TABLE 504.4	SPRINKLER INCREASE HT / STORIES TABLE 504.3	FLOOR NUMBER	AREA PER FLOOR (SQ FT) PROPOSED	TOTAL SF PROPOSED														
<b>RESIDENTIAL</b>																												
<b>TYPE V-A</b>																												
<b>2 FIRE COMPARTMENTS (FC)</b>																												
<b>RESIDENTIAL EXITING AREA 1</b>																												
FC-1	R-2 A-3 R-2 ACCESSORY	RESIDENTIAL AMENITIES TRASH, MEP	TYPE V-A MIXED USE OCCUPANCY TABLE	36,000	46.00%	12,000	5,520	41,520	2	83,040	4	60 FEET 4 STORIES	FLOOR 3 FLOOR 4 FLOOR 5	16,908 16,946 16,946	50,800													
<b>RESIDENTIAL EXITING AREA 2</b>																												
FC-2	R-2 R-2 ACCESSORY R-2 ACCESSORY R-2 ACCESSORY	RESIDENTIAL LOUNGE MEP (RESIDENTIAL AMENITIES)	TYPE V-A	36,000	50.00%	12,000	6,000	42,000	2	84,000	4	60 FEET 4 STORIES	FLOOR 3 FLOOR 4 FLOOR 5	20,576 20,690 20,690	61,956													
<b>RESIDENTIAL TOTALS</b>										167,040	ALLOWABLE				112,756 PROPOSED													
<b>GARAGE</b>																												
<b>TYPE I-A</b>																												
<b>NON-SEPARATED OCCUPANCIES</b>																												
GARAGE	S-2 A-3 A-3 B	PARKING LOBBIES AMENITIES OFFICE	TYPE I-A	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	FLOOR 1 FLOOR 2	46,734 47,128	46,734														
<b>GARAGE TOTALS</b>										UNLIMITED	ALLOWABLE				46,734 PROPOSED													
<b>GRAND TOTAL</b>															159,490 PROPOSED													

PERIMETER / FRONTAGE CALCULATION												
477 9TH AVE MARTIN GROUP												
	TOTAL PERIMETER	30' WIDE FRONTAGE EAST	30' WIDE FRONTAGE SOUTH	25' WIDE FRONTAGE WEST	30' WIDE FRONTAGE NORTH	TOTAL WITH FRONTAGE SUM	RATIO	DEDUCT CONSTANT	NET	WEIGHTED WIDTH FACTOR	$I_f$ VALUE	
<b>RESIDENTIAL</b>												
<b>TYPE V-A</b>												
<b>2 FIRE COMPARTMENTS (FC)</b>												
<b>RESIDENTIAL EXITING AREA 1</b>												
FC-1	663.00	0.00	78.40	180.00	138.00	396.40	0.5979	0.2500	0.3479	1.00	46.00%	
<b>RESIDENTIAL EXITING AREA 2</b>												
FC-2	895.20	180.00	171.50	0.00	151.40	502.90	0.5618	0.2500	0.3118	1.00	50.00%	

## ALLOWABLE AREA CALCULATIONS

AP0.36



# S. CLAREMONT ST

LEVEL 2	TYPE I-A
FLOOR AREA ALLOWED	UNLIMITED
TOTAL FLOOR AREA PROPOSED	46,810 SF

**ADJACENT  
BLDG**



## CALTRAIN RAILROAD TRACKS

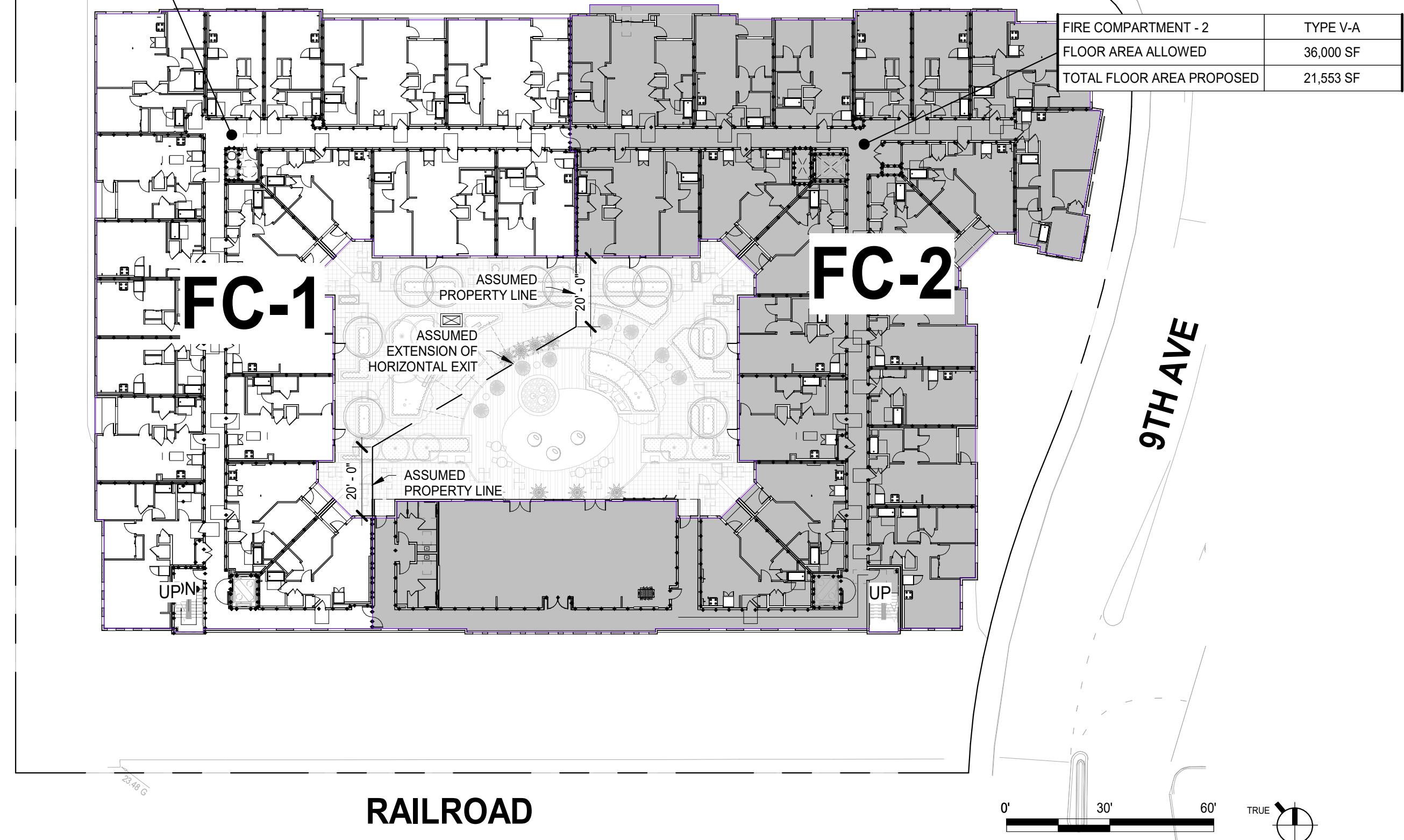


**9TH AVE**

S. CLAREMONT ST

FIRE COMPARTMENT - 1	TYPE V-A
FLOOR AREA ALLOWED	36,000 SF
TOTAL FLOOR AREA PROPOSED	17,284 SF

# S. CLAREMONT ST



20' TO LESS THAN 25' = NO LIMIT (UP, S)

AREA OF EXTERIOR WALL = 5,669 SF

ALLOWABLE = UNLIMITED

TOTAL OPENING = 1,935 SF (34%)

1,935 SF = **COMPLIES**

2  
AP3.20

23'-0" F.S.D.

NO LIMIT

PER CBC TABLE 705.8



25' TO LESS THAN 30' = NO LIMIT (UP, S)

AREA OF EXTERIOR WALL = 4,313 SF

ALLOWABLE = UNLIMITED

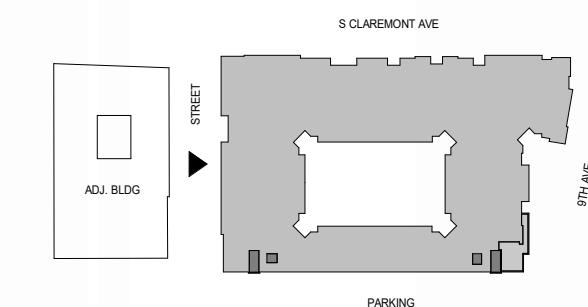
TOTAL OPENING = 980 SF (23%)

980 SF = **COMPLIES**

25'-0" F.S.D.

NO LIMIT

PER CBC TABLE 705.8



## ELEVATION - WEST 2

1/16" = 1'-0"

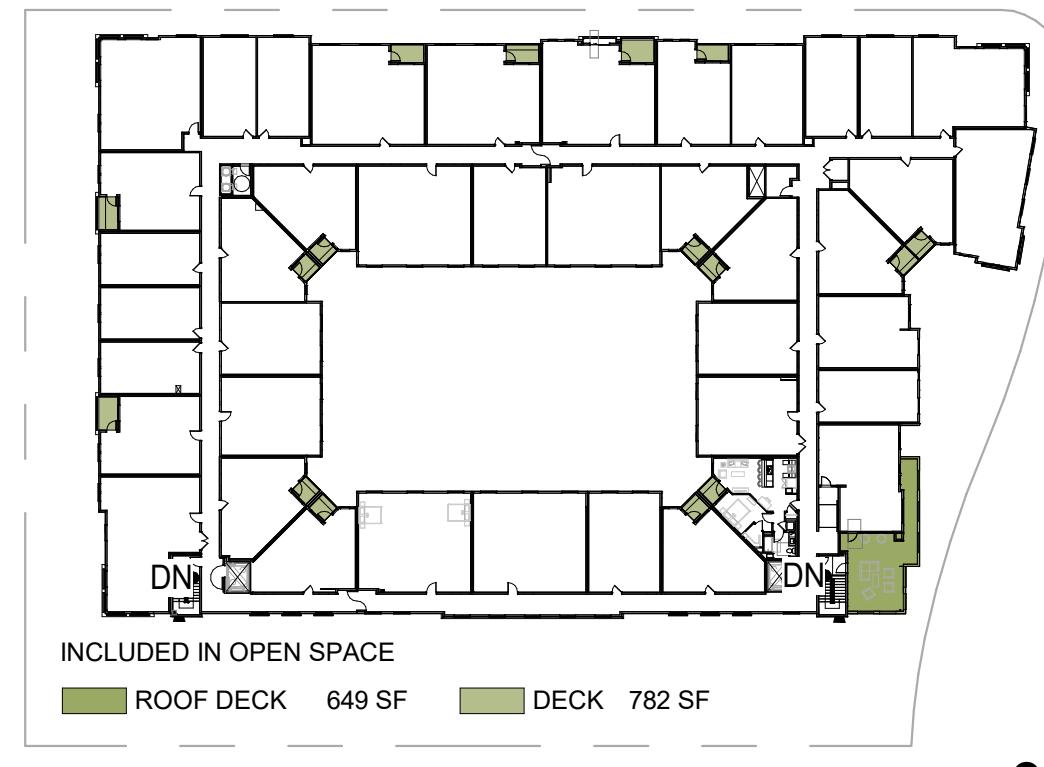
## FLOOR 1- PARTIAL WEST SITE PLAN 1

1/64" = 1'-0"

## ALLOWABLE OPENING CALCULATIONS

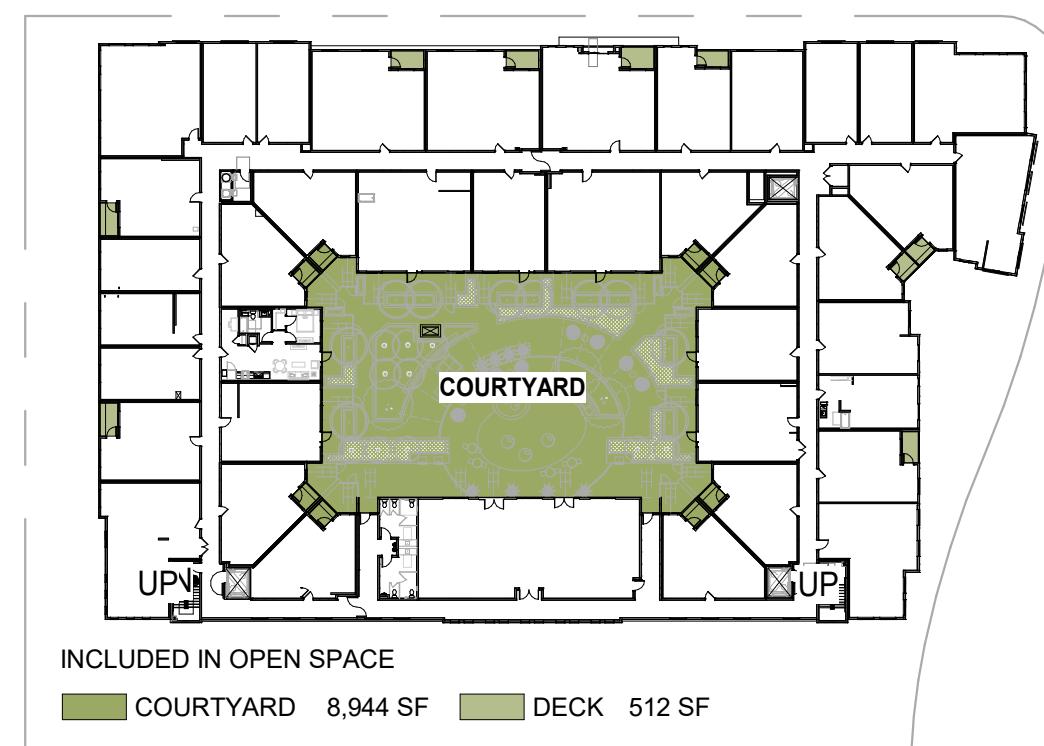
AP0.40

477 9TH AVE



## OPEN SPACE - FLOOR 5 3

1" = 60'-0"

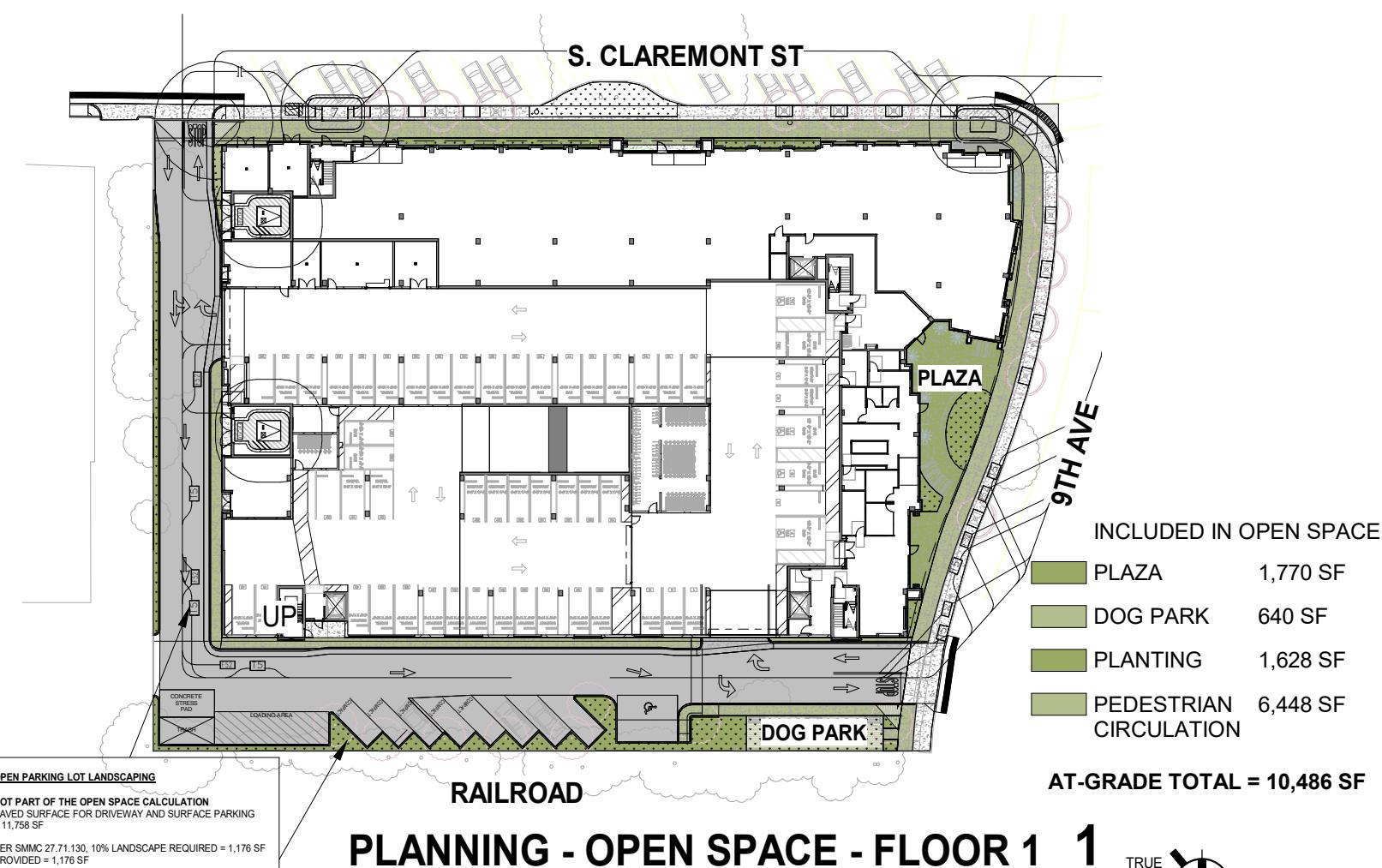


## OPEN SPACE - FLOOR 3 2

1" = 60'-0"

### OPEN SPACE CALCULATIONS

	FLOOR 1 (AT GRADE)	FLOOR 2	FLOOR 3	FLOOR 4	FLOOR 5	PROVIDED
PRIVATE OPEN SPACE	0	0	512	782	782	2,076
COMMON OPEN SPACE	10,486	0	8,944	0	649	20,079
<b>TOTAL</b>	<b>10,486</b>					<b>22,155</b>
<b>REQUIRED</b>	<b>13,995</b>					

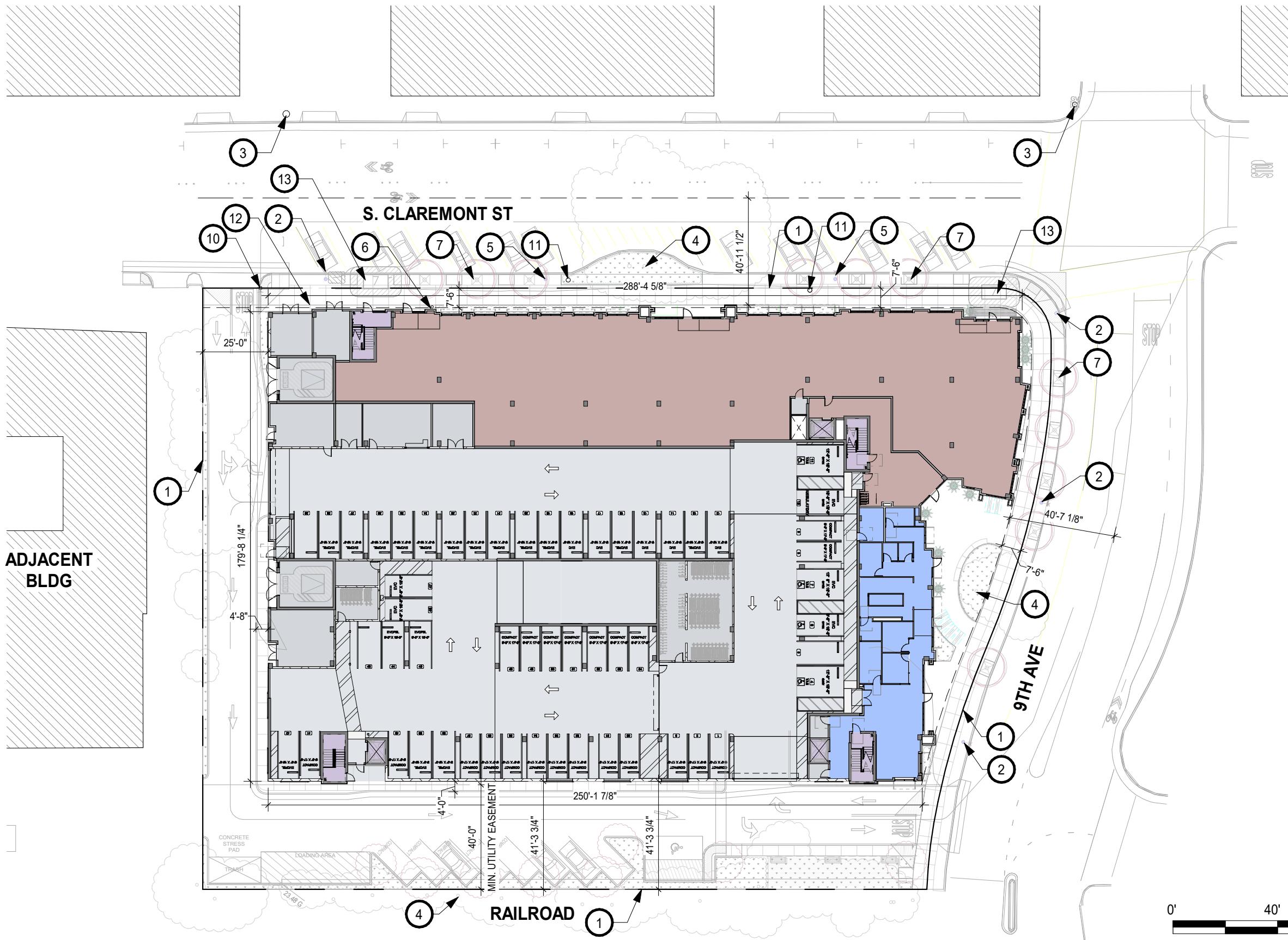


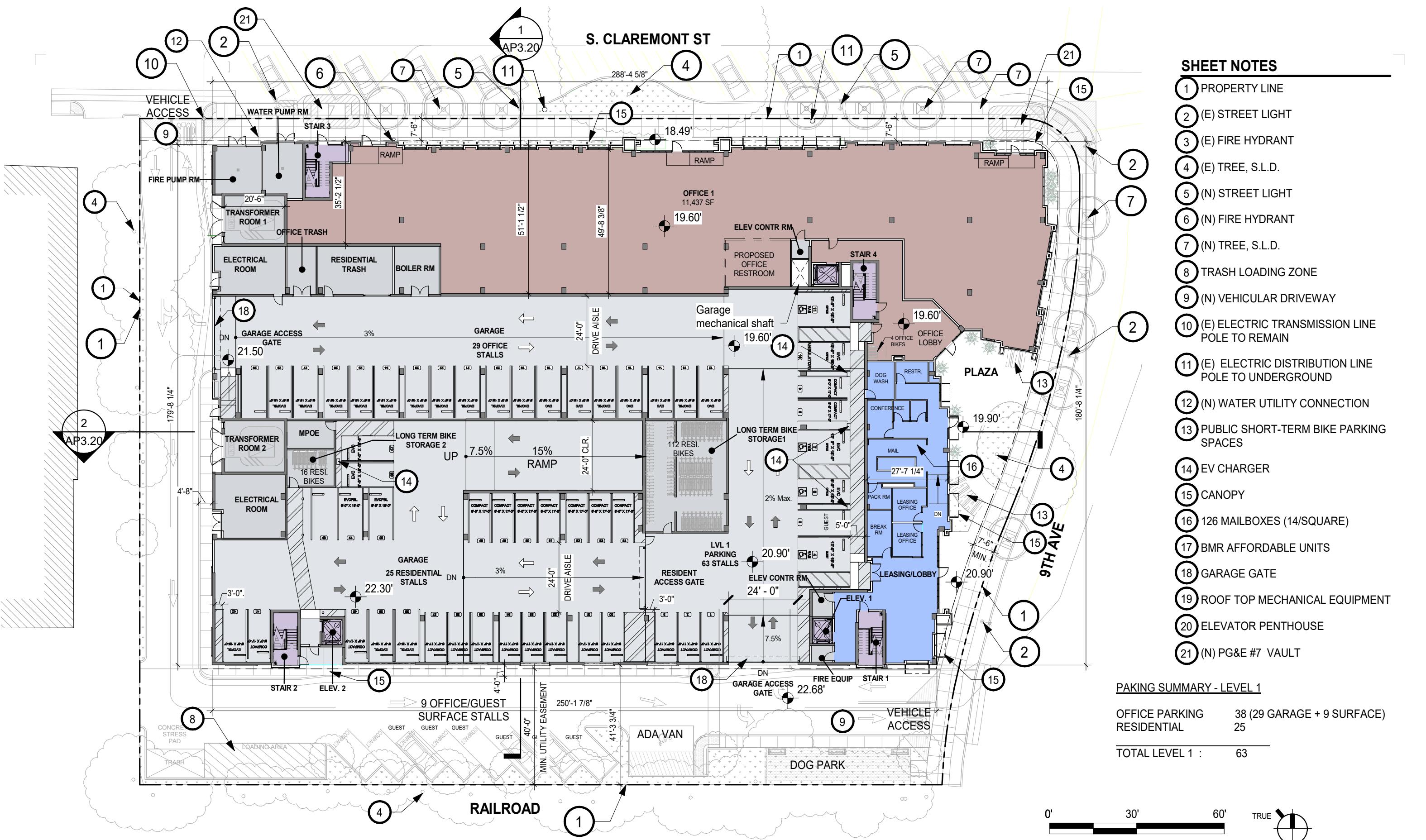
## OPEN SPACE DIAGRAM

AP0.42

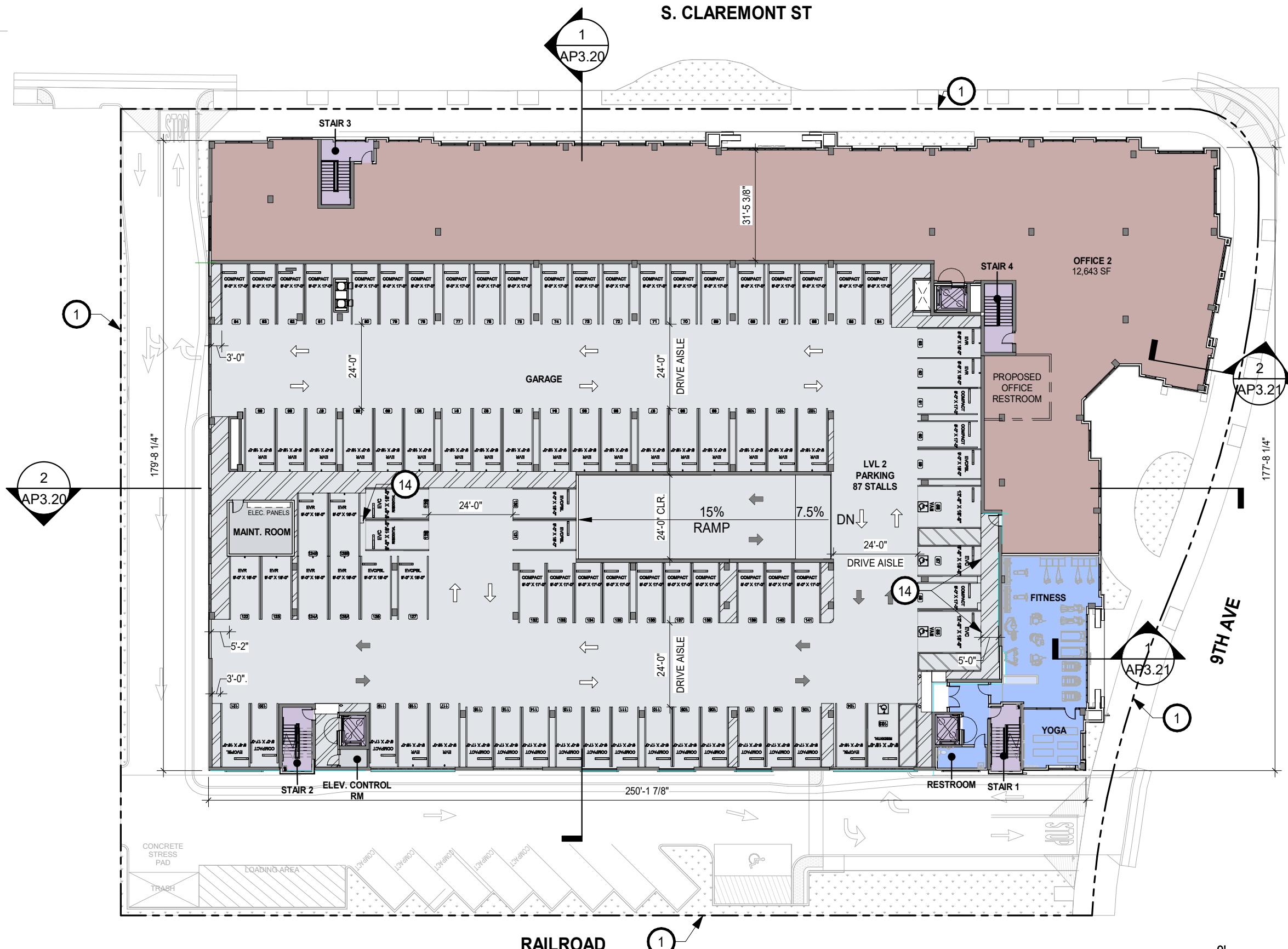
477 9TH AVE

June 23, 2023





## S. CLAREMONT ST



## SHEET NOTES

- 1 PROPERTY LINE
- 2 (E) STREET LIGHT
- 3 (E) FIRE HYDRANT
- 4 (E) TREE, S.L.D.
- 5 (N) STREET LIGHT
- 6 (N) FIRE HYDRANT
- 7 (N) TREE, S.L.D.
- 8 TRASH LOADING ZONE
- 9 (N) VEHICULAR DRIVEWAY
- 10 (E) ELECTRIC TRANSMISSION LINE  
POLE TO REMAIN
- 11 (E) ELECTRIC DISTRIBUTION LINE  
POLE TO UNDERGROUND
- 12 (N) WATER UTILITY CONNECTION
- 13 PUBLIC SHORT-TERM BIKE PARKING  
SPACES
- 14 EV CHARGER
- 15 CANOPY
- 16 126 MAILBOXES (14/SQUARE)
- 17 BMR AFFORDABLE UNITS
- 18 GARAGE GATE
- 19 ROOF TOP MECHANICAL EQUIPMENT
- 20 ELEVATOR PENTHOUSE
- 21 (N) PG&E #7 VAULT

## PAKING SUMMARY - LEVEL 2

RESIDENTIAL 85  
TENDEM 2

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TOTAL LEVEL 2 : 87



## FLOOR 2 - PLAN

1" = 30' - 0" AP2.02

## S. CLAREMONT ST

1  
AP3.20

289'-10 3/4"

This architectural floor plan illustrates a building layout with the following key features and dimensions:

- Overall Dimensions:** The building footprint is 289'-10 3/4" wide by 250'-1 7/8" deep.
- Units:** The building contains 17 units, labeled as follows:
  - Top Row: B2.0, S1.0-a, S1.0-b, 17, B1.0, B1.3, 17, B1.2, 5'-6", A3.5, A3.4, 17, S1.0-b, S1.0-a, 36'-3", B4.0.
  - Second Row: A1.0, TRASH ROOM, A2.0, B1.1, A3.6, B1.4, A4.0, A2.0, ELEV. SHAFT.
  - Third Row: S2.0, A2.0, A3.1, A1.1, A1.2, A3.1, A3.3, S2.0-a, A3.0.
  - Fourth Row: A1.0, B6.0, A2.2, A2.1, A2.2, A2.0, B5.0.
- Common Areas:** A central lounge area is located in the bottom center, measuring 68'-11 5/8" by 36'-11 3/4".
- Garage:** A garage intake air duct is located in the center, with a dimension of 10 SF Garage intake air.
- Vertical Dimensions:** The building has a total height of 179'-11 3/4". The distance from the railroad level to the top of the building is 23' - 0".
- Exterior:** The building is bounded by 9TH AVE to the right and RAILROAD to the bottom. A garage shaft is located on the right side.
- Annotations:** Various annotations are present, including a question mark above a unit, a 5'-6" dimension, and a 10 SF Garage intake air label.

0' 30' 60' TRUE

## FLOOR 3 - PLAN

1" = 30' - 0"

## AP2.03

**BDE**  
ARCHITECTURE

477 9TH AVE

June 23, 2023

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# S. CLAREMONT ST



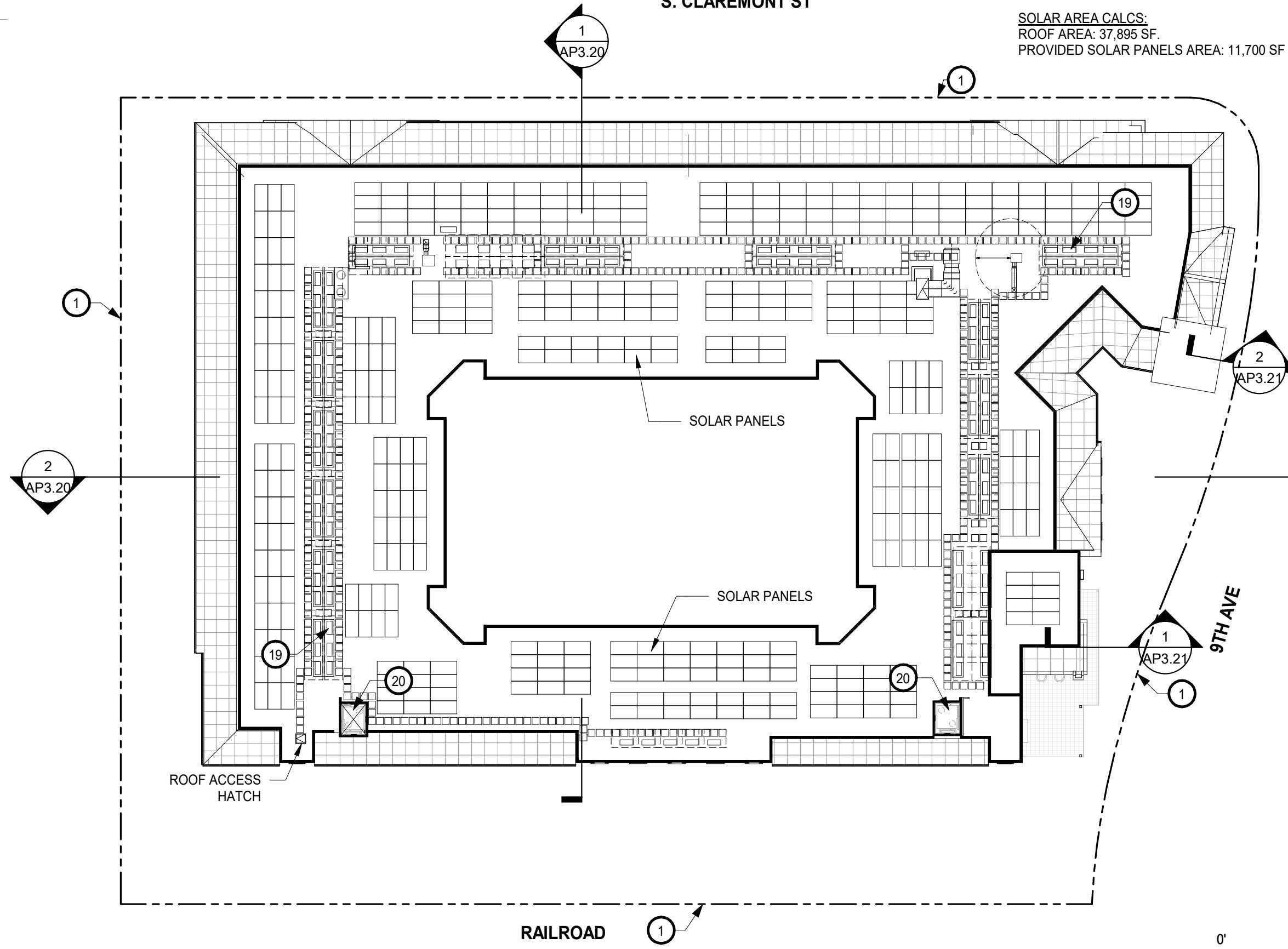
## SHEET NOTES

- 1 PROPERTY LINE
- 2 (E) STREET LIGHT
- 3 (E) FIRE HYDRANT
- 4 (E) TREE, S.L.D.
- 5 (N) STREET LIGHT
- 6 (N) FIRE HYDRANT
- 7 (N) TREE, S.L.D.
- 8 TRASH LOADING ZONE
- 9 (N) VEHICULAR DRIVEWAY
- 10 (E) ELECTRIC TRANSMISSION LINE POLE TO REMAIN
- 11 (E) ELECTRIC DISTRIBUTION LINE POLE TO UNDERGROUND
- 12 (N) WATER UTILITY CONNECTION
- 13 PUBLIC SHORT-TERM BIKE PARKING SPACES
- 14 EV CHARGER
- 15 CANOPY
- 16 126 MAILBOXES (14/SQUARE)
- 17 BMR AFFORDABLE UNITS
- 18 GARAGE GATE
- 19 ROOF TOP MECHANICAL EQUIPMENT
- 20 ELEVATOR PENTHOUSE
- 21 (N) PG&E #7 VAULT

FLOOR 5 - PLAN

1" = 30' - 0" AP2.05

# S. CLAREMONT ST



## SHEET NOTES

- 1 PROPERTY LINE
- 2 (E) STREET LIGHT
- 3 (E) FIRE HYDRANT
- 4 (E) TREE, S.L.D.
- 5 (N) STREET LIGHT
- 6 (N) FIRE HYDRANT
- 7 (N) TREE, S.L.D.
- 8 TRASH LOADING ZONE
- 9 (N) VEHICULAR DRIVEWAY
- 10 (E) ELECTRIC TRANSMISSION LINE POLE TO REMAIN
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- 19 ROOF TOP MECHANICAL EQUIPMENT
- 20 ELEVATOR PENTHOUSE
- 21 (N) PG&E #7 VAULT



**ELEVATION - NORTH - CLAREMONT ST 2**

1" = 30'-0"

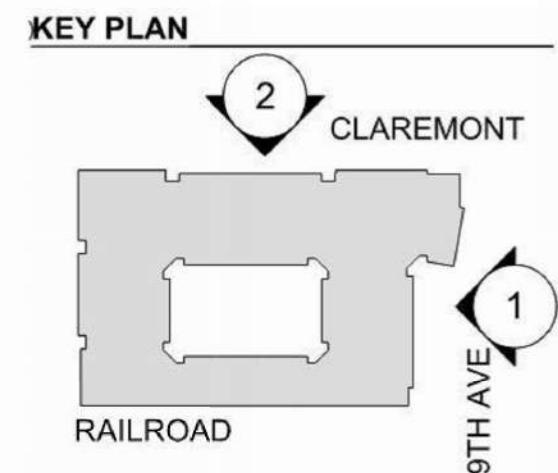
**SHEET NOTES**

- 1 CEMENT PLASTER, SMOOTH SAND
- 2 CAST STONE
- 3 JULIETTE BALCONY, BOLT-ON, HOT-DIP GALV, PTD
- 4 RAILING, HOT-DIP GALV. PTD ARCH BRONZE
- 5 METAL AWNING, NON-RAIN THRU
- 6 VINYL NAIL-FIN WINDOW FIN ARCH BRONZE
- 7 STOREFRONT FIN ARCH BRONZE
- 8 SPANISH TILE ARCH. POTENTIAL ART ELEMENT
- 9 GARAGE ACCESS
- 10 BUILDING SIGNAGE, HT 18", DEPTH 2", CAST METAL, SIM.
- 11 SLOPED MANSARD ROOF, CONCRETE S-TILE
- 12 FOAM TRIM, 3" MIN DEPTH, PLASTER FIN.
- 13 TILE "FAUX" ROOF VENT
- 14 RECESSED VINYL WINDOWS
- 15 GARAGE OPENING
- 16 BUILDING EXTERIOR LIGHT
- 17 SPANISH TILE GARAGE ELEMENT, COLOR SELECTION TBD



**ELEVATION - EAST - 9TH AVE 1**

1" = 30'-0"



**BUILDING ELEVATIONS**

1" = 30' - 0" AP3.00



**ELEVATION - SOUTH 2**

1" = 30'-0"



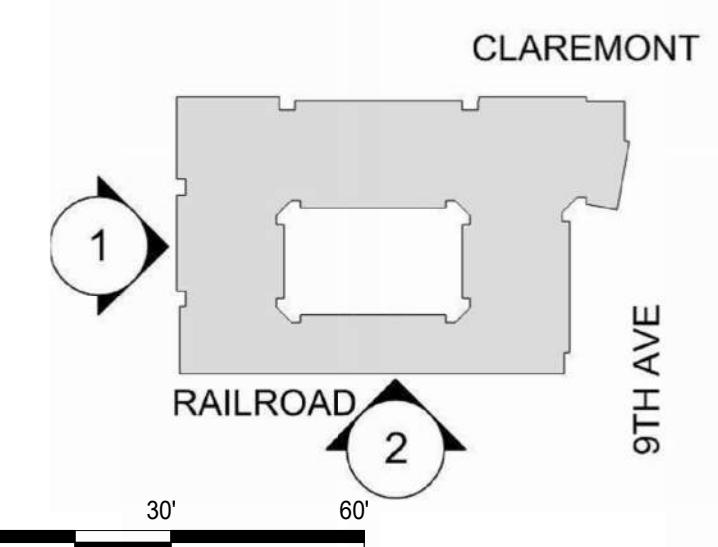
**ELEVATION - WEST 1**

1" = 30'-0"

**SHEET NOTES**

- ① CEMENT PLASTER, SMOOTH SAND
- ② CAST STONE
- ③ JULIETTE BALCONY, BOLT-ON, HOT-DIP GALV, PTD
- ④ RAILING, HOT-DIP GALV. PTD ARCH BRONZE
- ⑤ METAL AWNING, NON-RAIN THRU
- ⑥ VINYL NAIL-FIN WINDOW FIN ARCH BRONZE
- ⑦ STOREFRONT FIN ARCH BRONZE
- ⑧ SPANISH TILE ARCH. POTENTIAL ART ELEMENT
- ⑨ GARAGE ACCESS
- ⑩ BUILDING SIGNAGE, HT 18", DEPTH 2", CAST METAL, SIM.
- ⑪ SLOPED MANSARD ROOF, CONCRETE S-TILE
- ⑫ FOAM TRIM, 3" MIN DEPTH, PLASTER FIN.
- ⑬ TILE "FAUX" ROOF VENT
- ⑭ RECESSED VINYL WINDOWS
- ⑮ GARAGE OPENING
- ⑯ BUILDING EXTERIOR LIGHT
- ⑰ SPANISH TILE GARAGE ELEMENT, COLOR SELECTION TBD

**KEY PLAN**



**BUILDING ELEVATIONS**

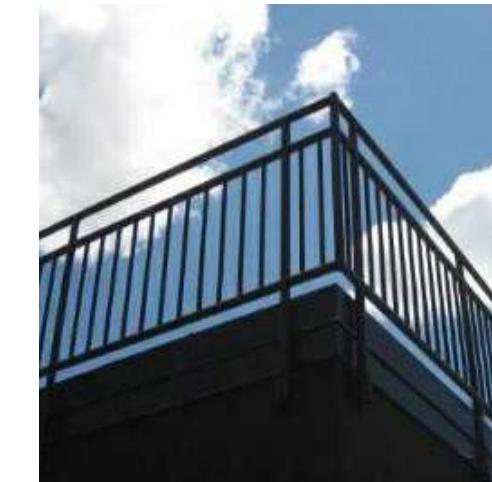
1" = 30' - 0" AP3.01



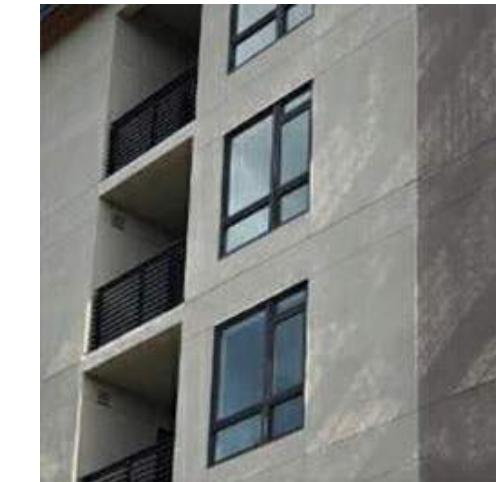
STOREFRONT  
FIN ARCH BRONZE



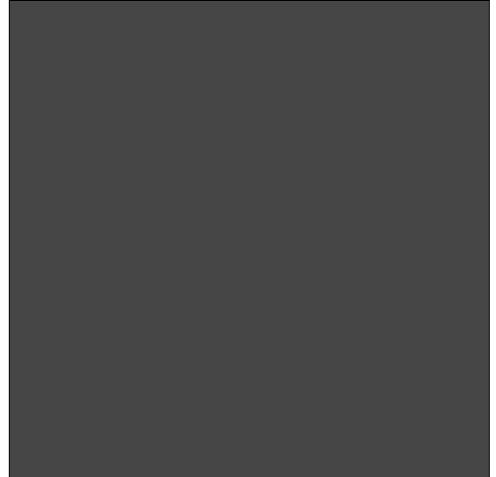
METAL AWNING  
NON-RAIN THRU



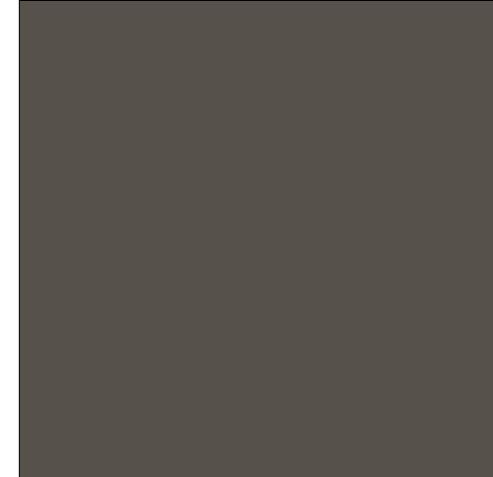
RAILING - HOT DIP GALV.  
PAINTED ARCHITECTURAL BRONZE



CAST STONE  
CONCRETE SEALED



ALUMINUM STOREFRONT  
'CLASSIC BRONZE' OR SIM.



PAINT ON METAL WORK & STUCCO  
DRAGON BREATH - BM 1547



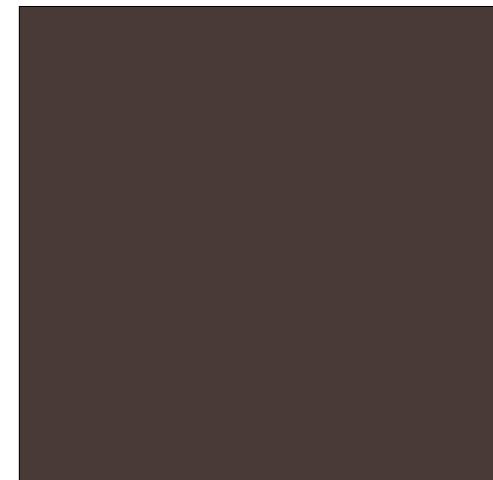
CAST STONE  
CONCRETE SEALED



CONCRETE ROOF TILE  
S-SHAPE



VPI VINYL WINDOWS  
'ARCHITECTURAL BRONZE'  
STOREFRONT & METALWORK TO MATCH



PAINT  
DARK BROWN



PAINT  
SHORELINE - BM 1471



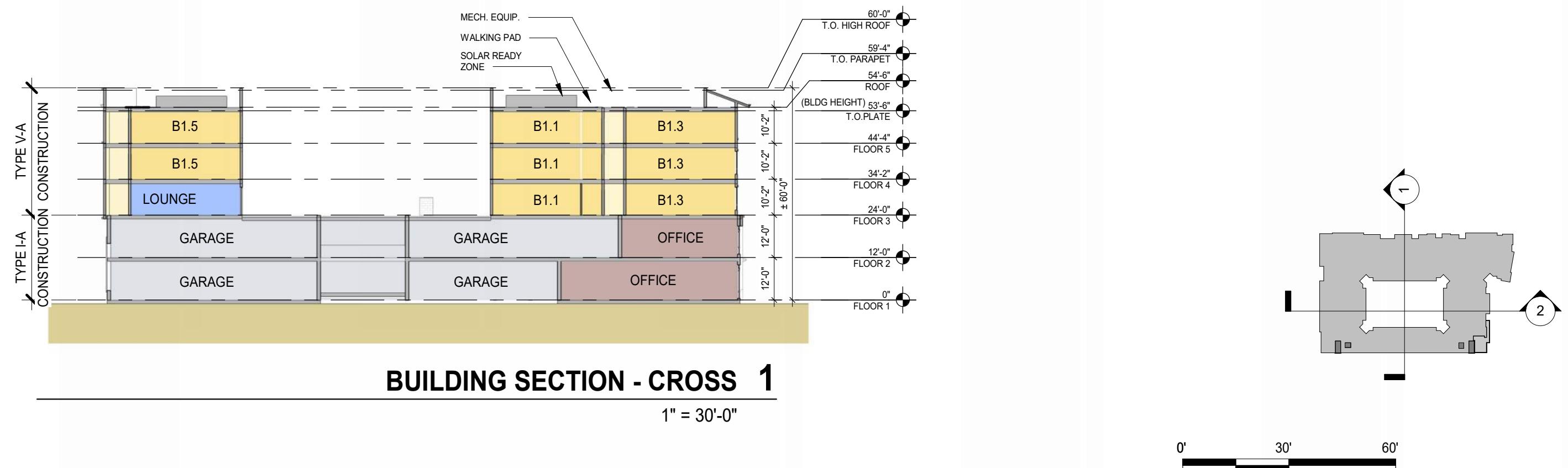
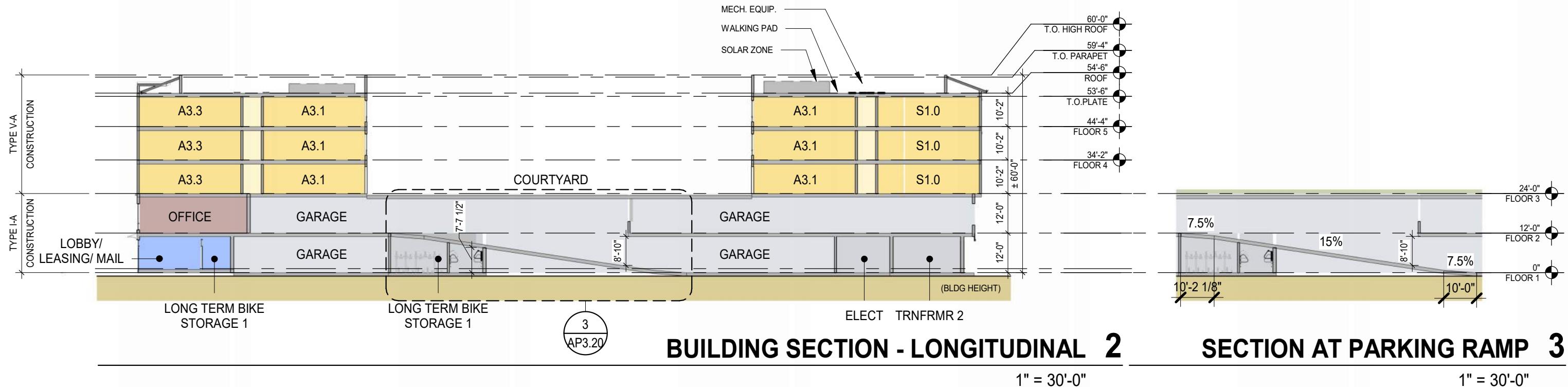
CEMENT PLASTER  
SAMPLE FOR TEXTURE ONLY



SPANISH TILE, ART ELEMENT  
COLOR SELECTION TBD

## MATERIAL BOARD

AP3.10



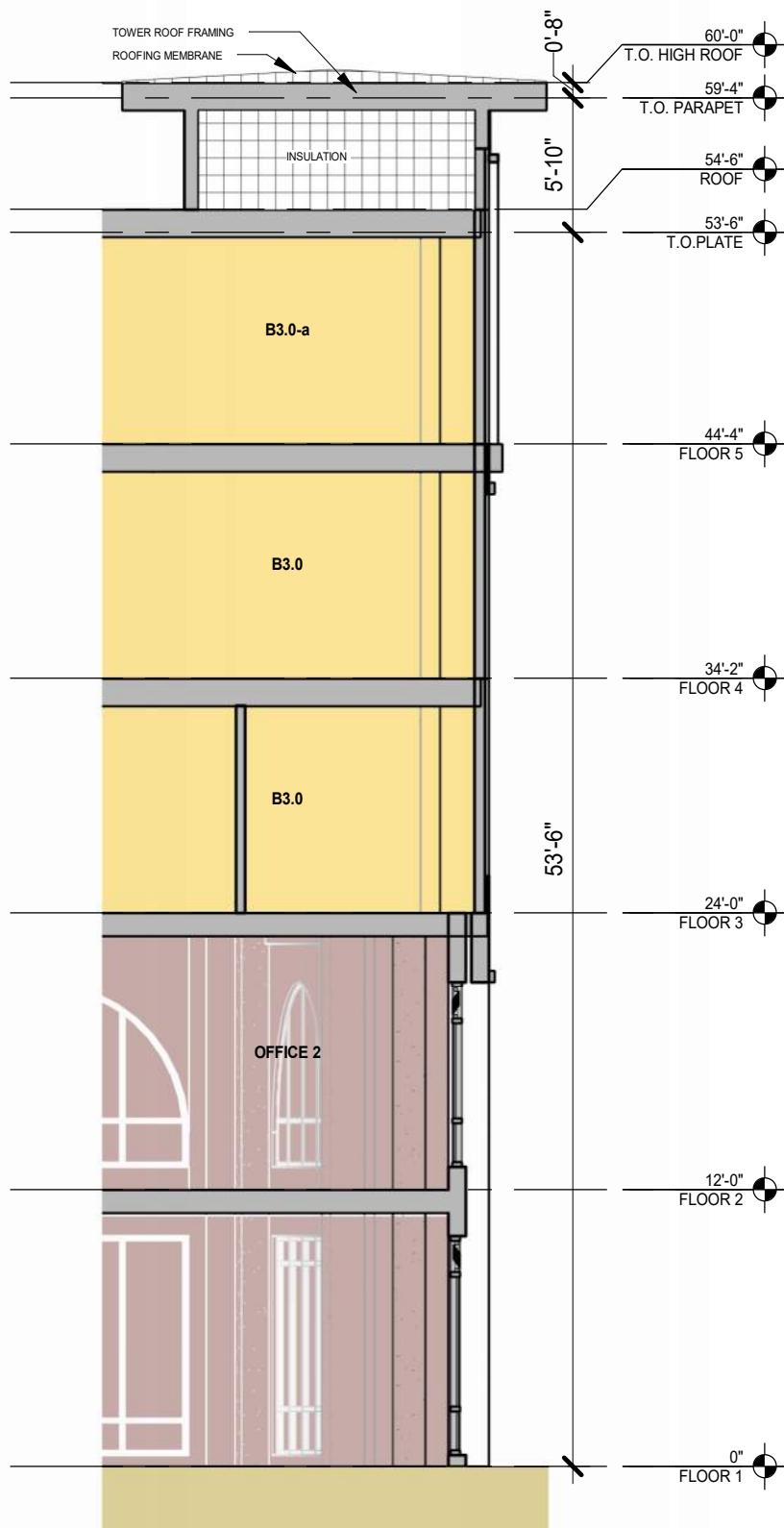
**BDE**  
ARCHITECTURE

477 9TH AVE

## BUILDING SECTIONS

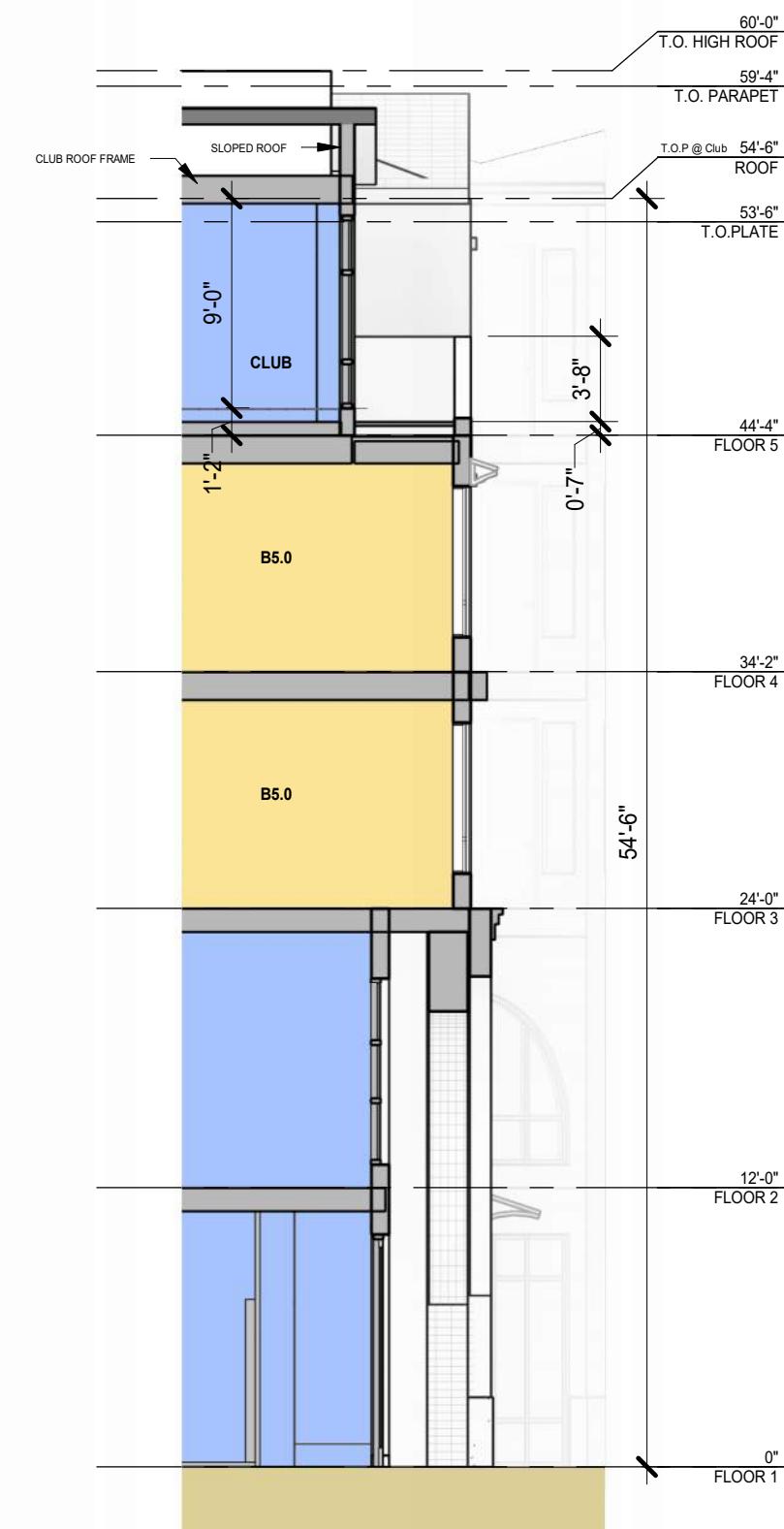
1" = 30' - 0" AP3.20

June 23, 2023



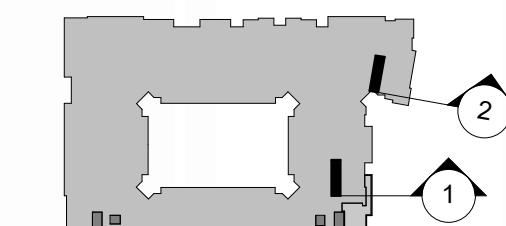
**WALL SECTION 2 2**

1/8" = 1'-0"



**WALL SECTION 1 1**

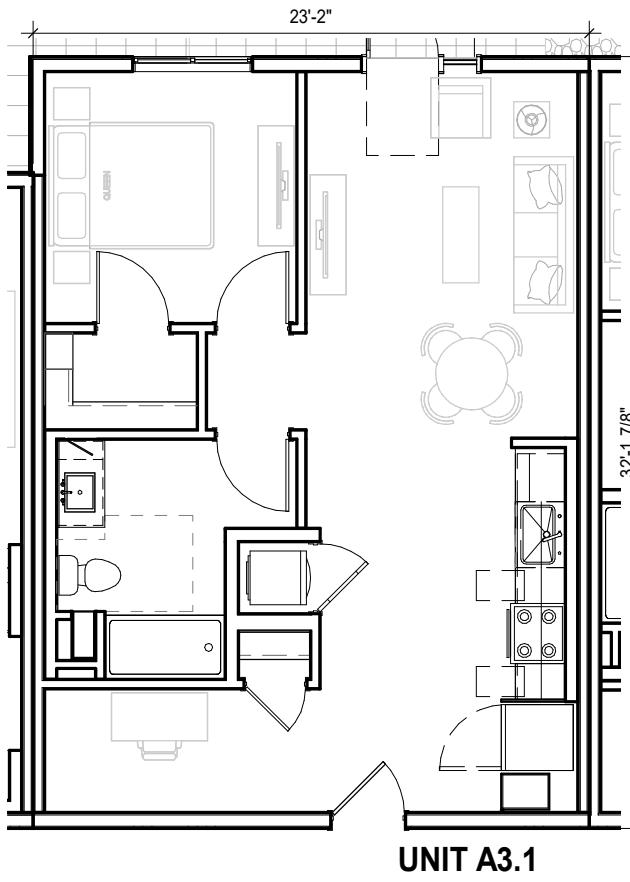
1/8" = 1'-0"



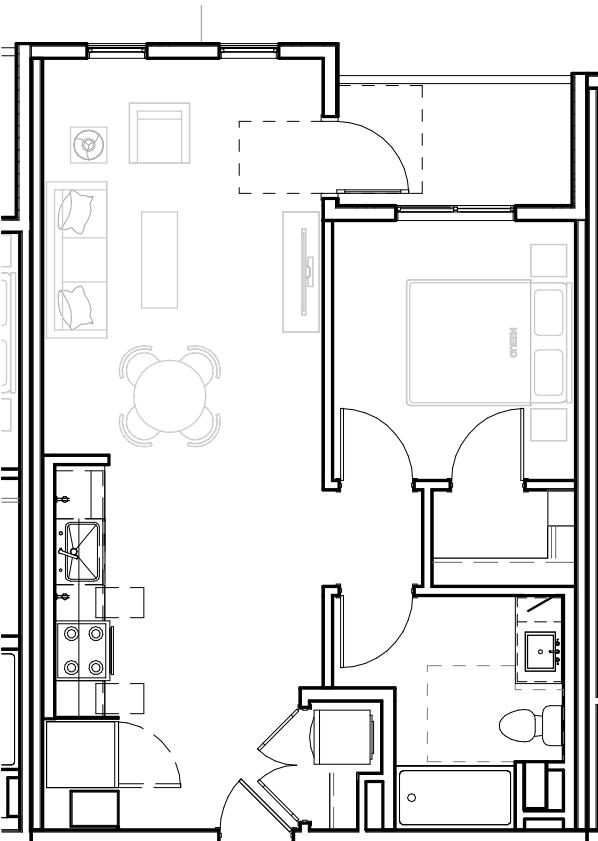
**WALL SECTIONS**

1/8" = 1' - 0" AP3.21

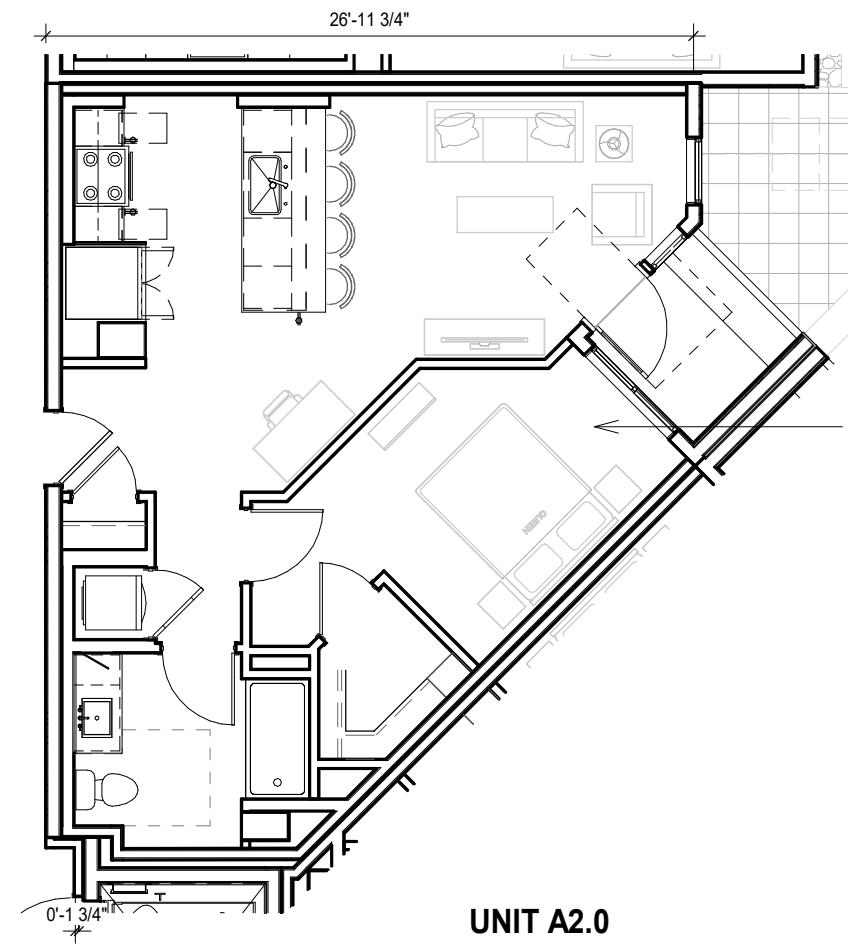
June 23, 2023



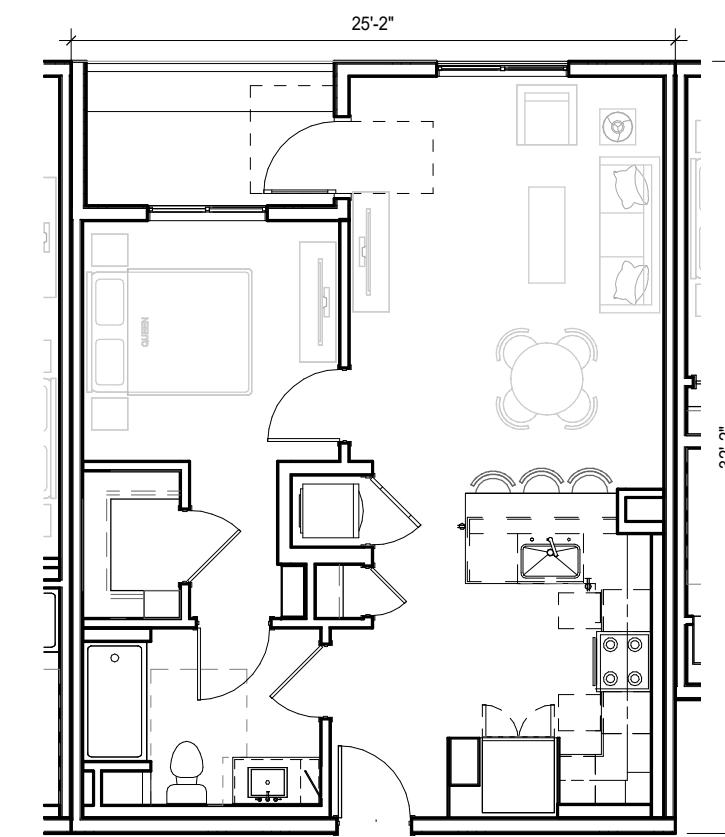
UNIT A3.1



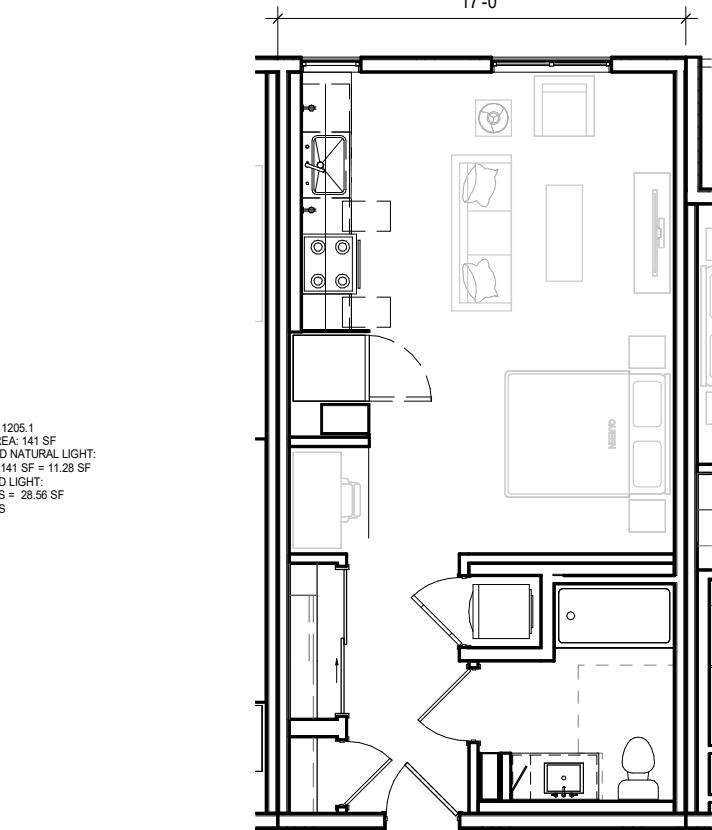
UNIT A3.0



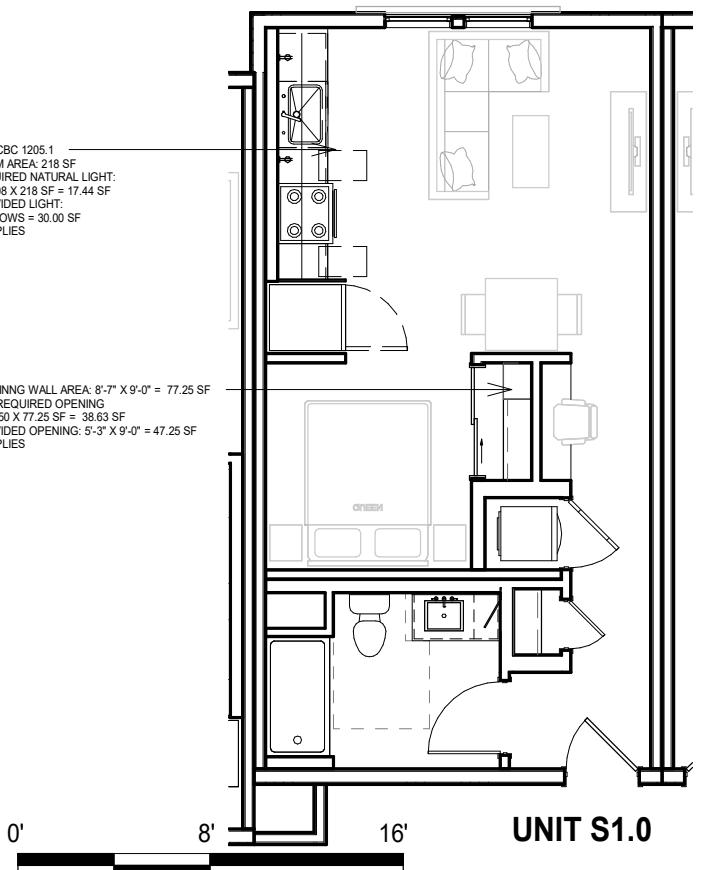
UNIT A2.0



UNIT A1.0



UNIT PLAN - S2.0

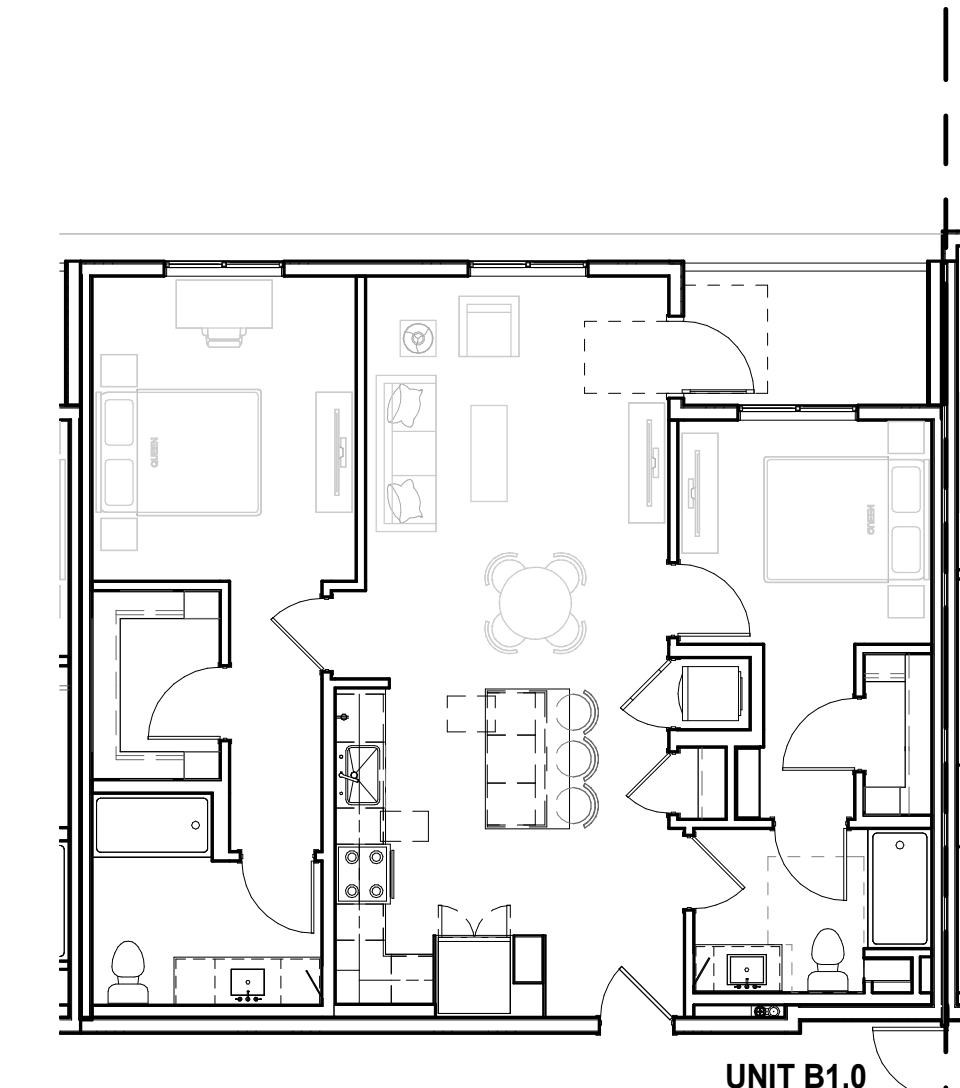
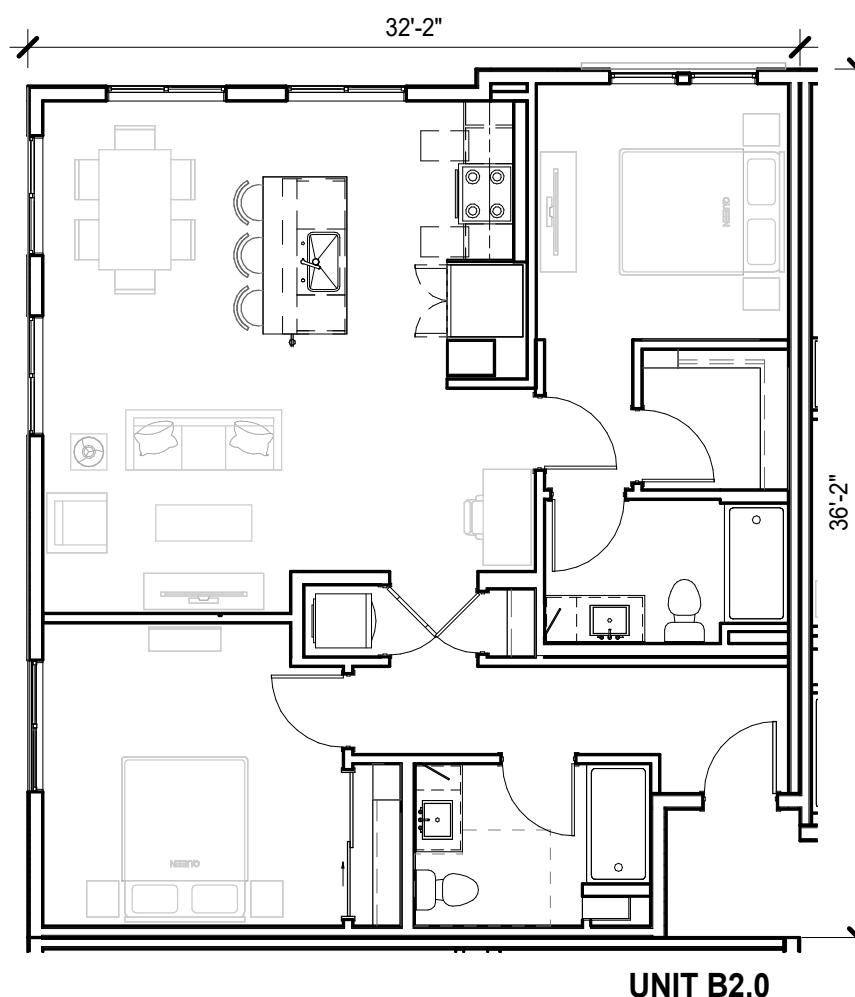
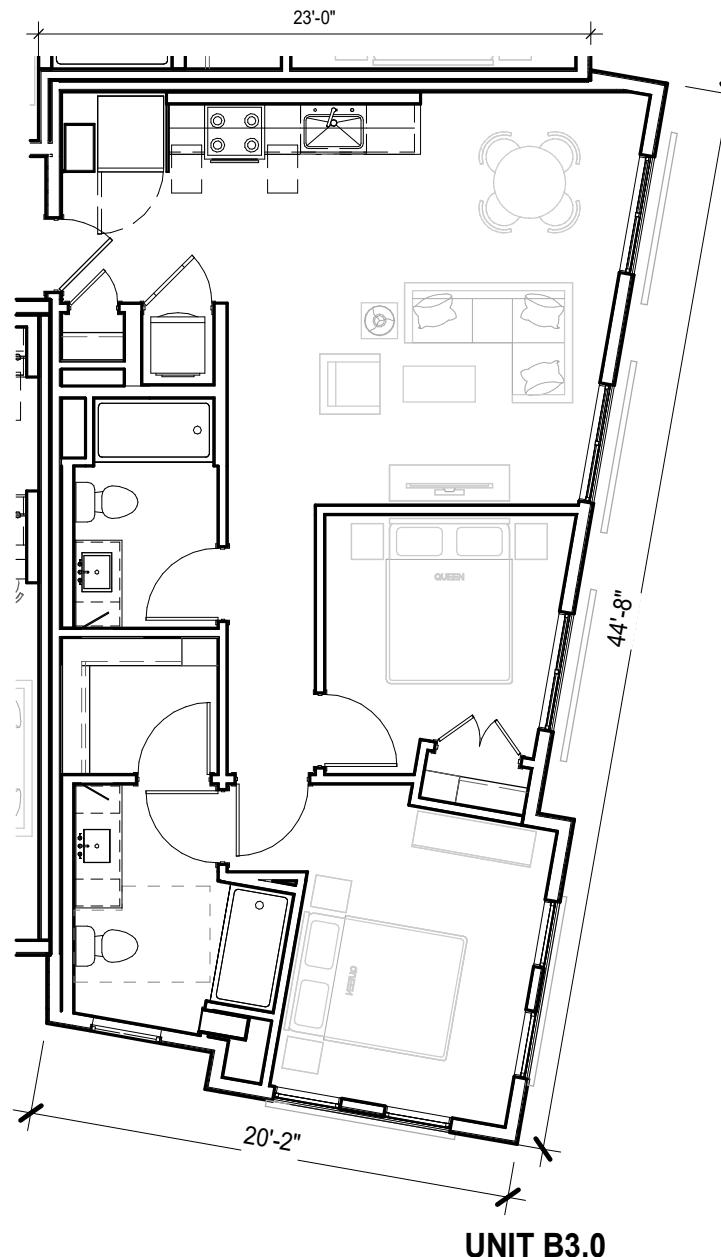


UNIT S1.0

## UNIT PLANS

1/8" = 1' - 0"

AP4.0

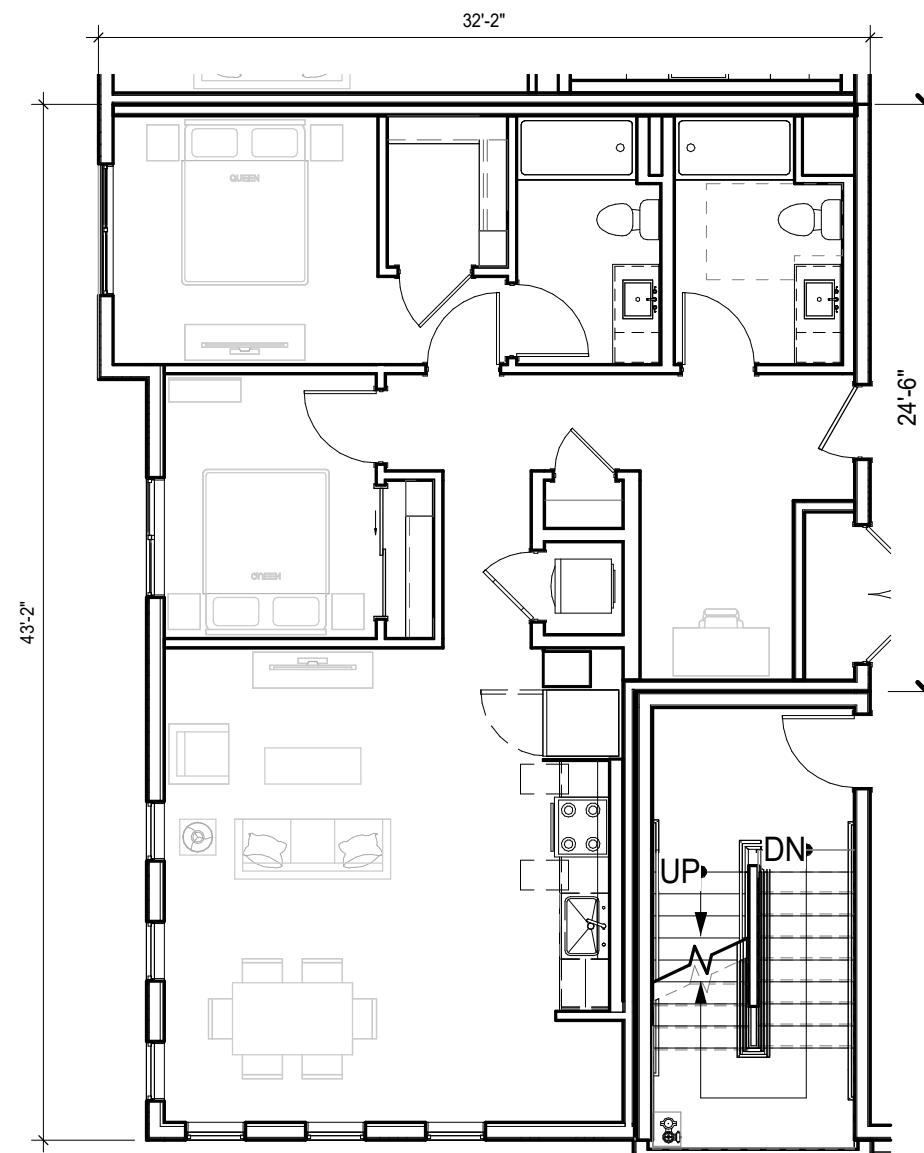


0' 8' 16'

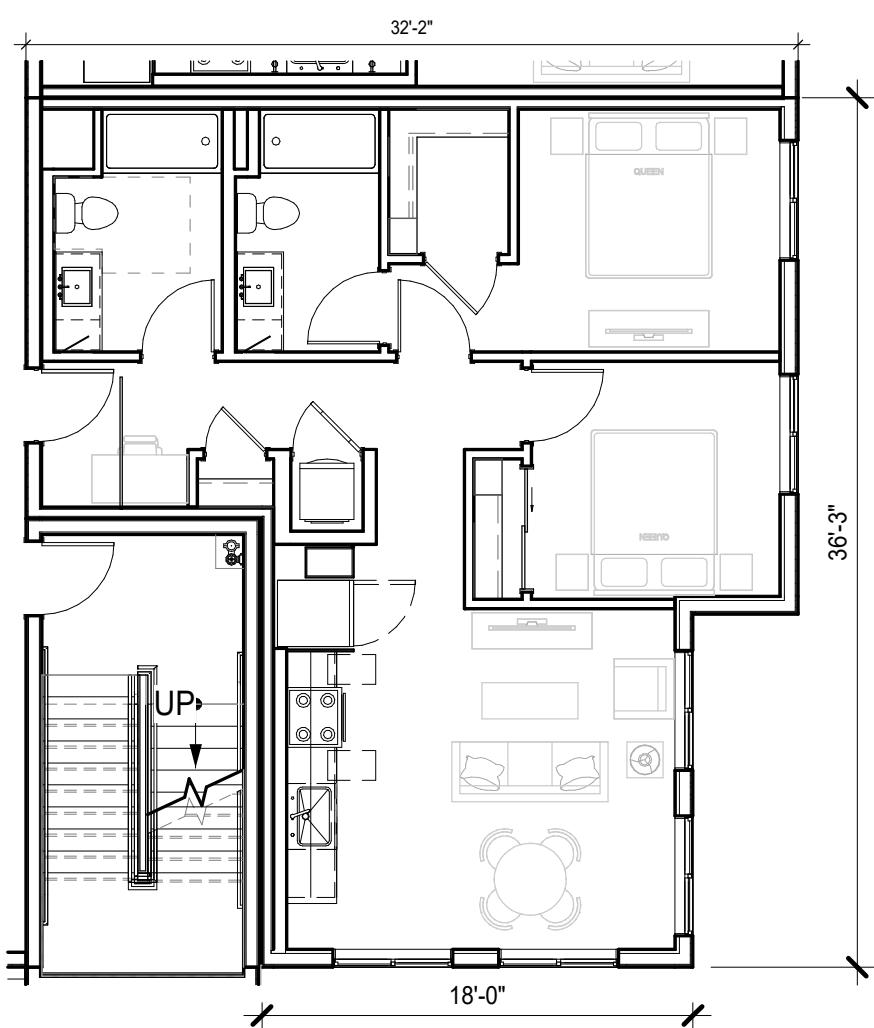
**UNIT PLANS**

1/8" = 1' - 0"

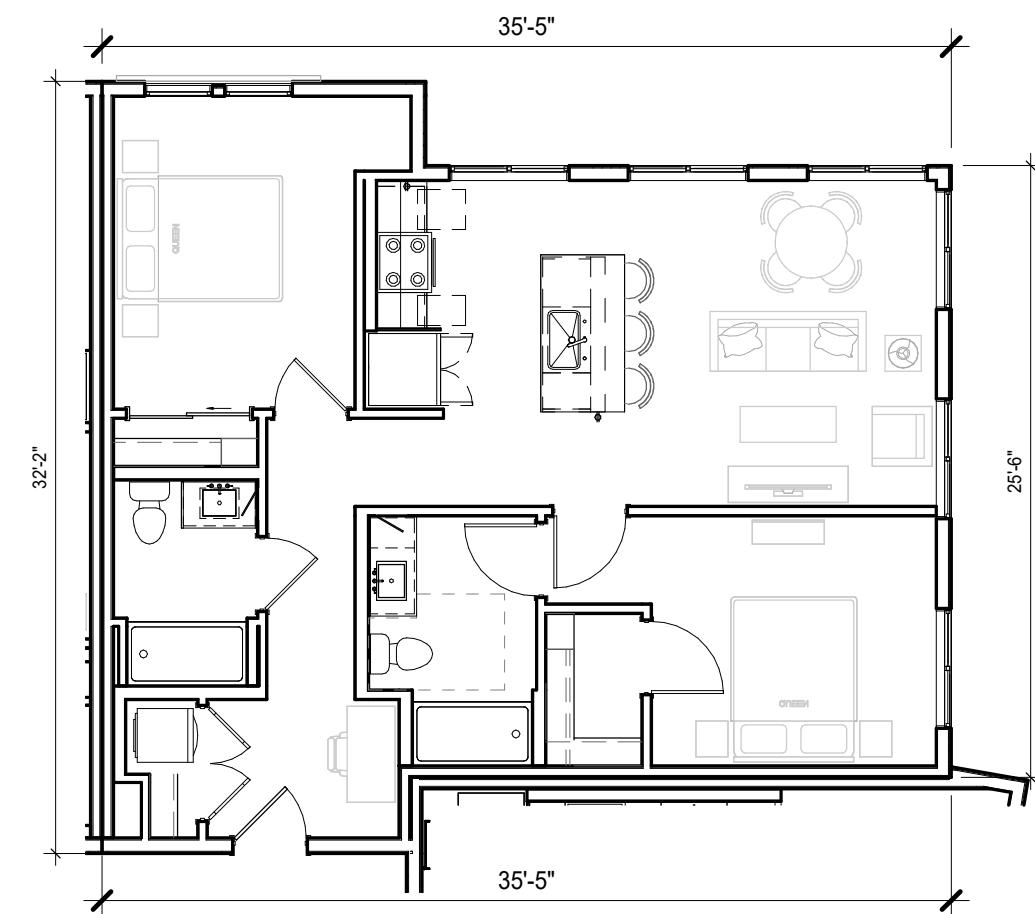
**AP4.1**



**UNIT B6.0**



**UNIT B5.0**



**UNIT B4.0**



1/8" = 1' - 0"

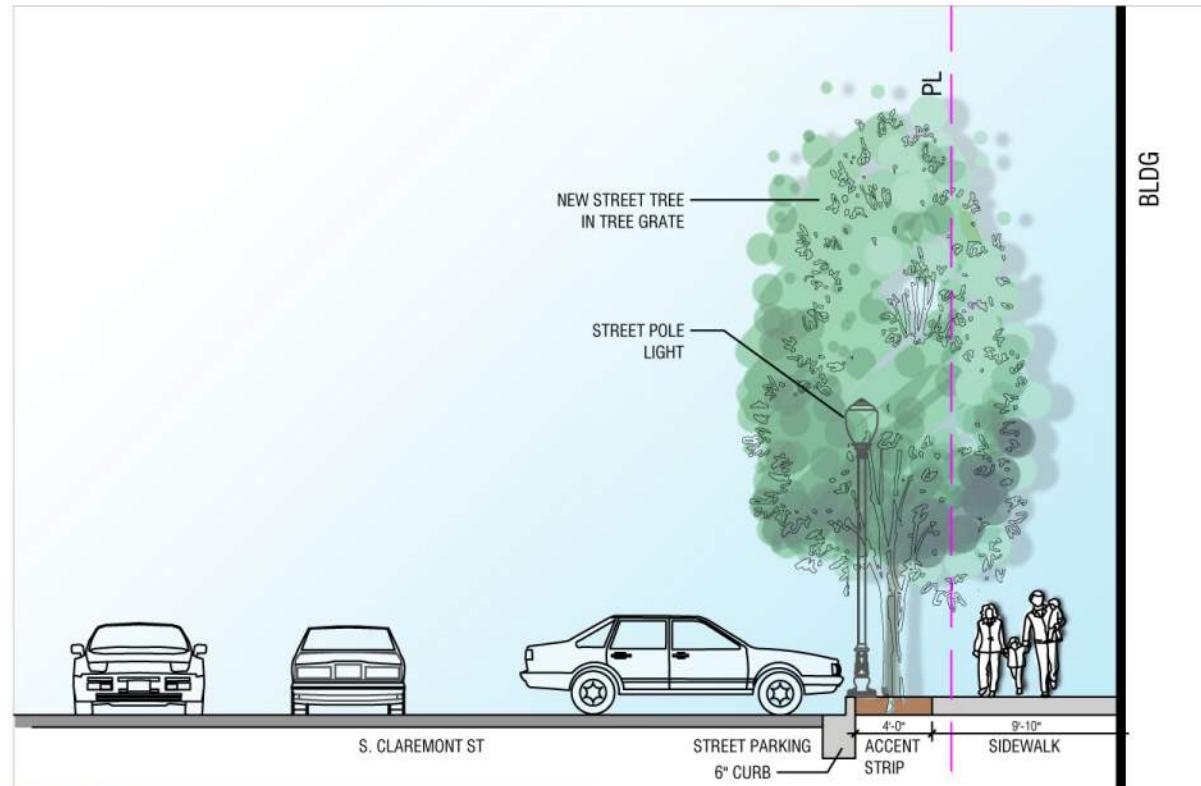
**AP4.2**

**UNIT PLANS**

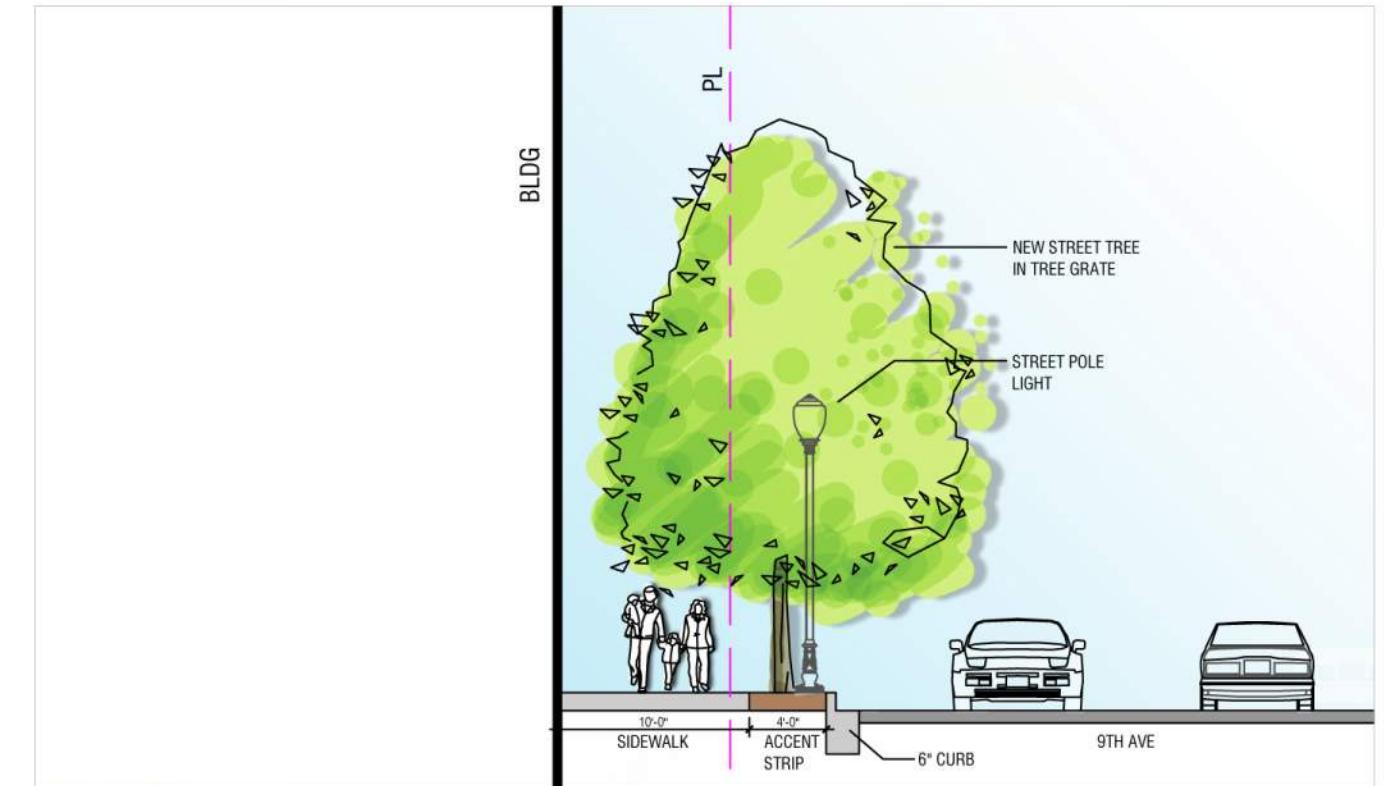
June 23, 2023

S. CLAREMONT ST

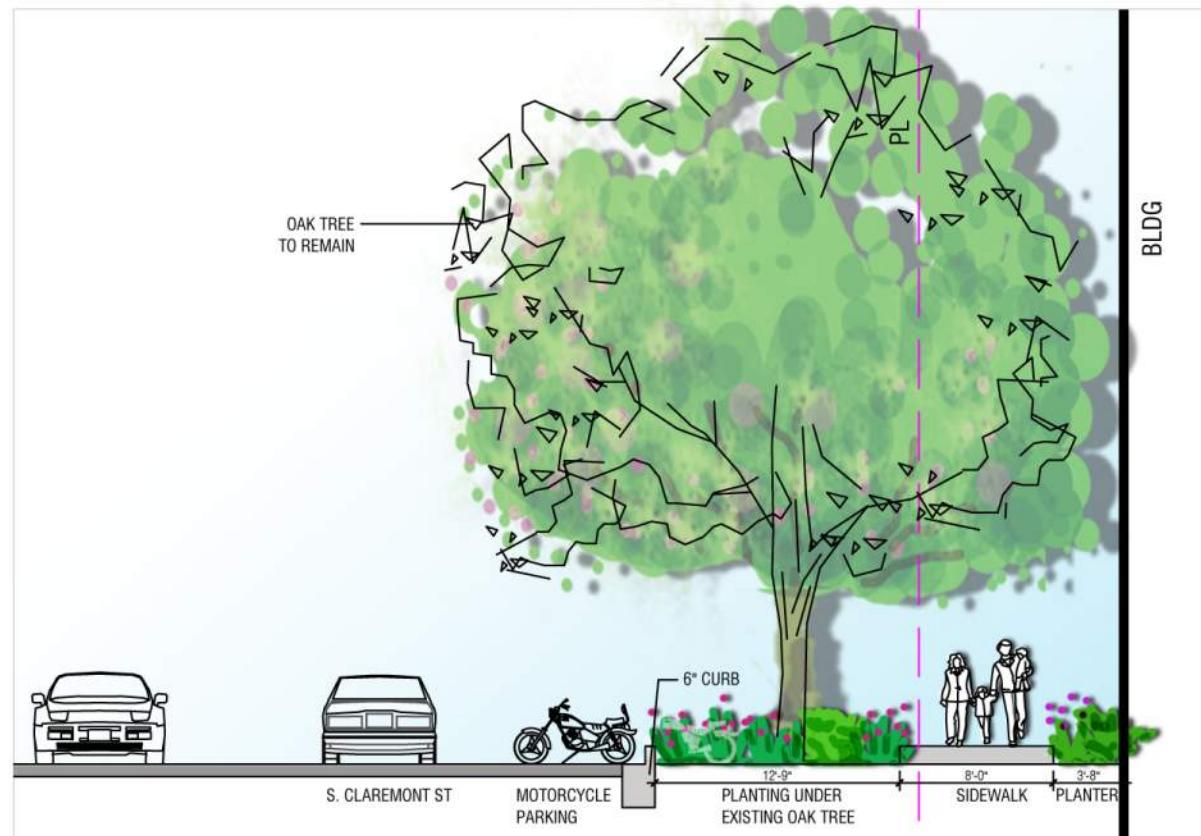




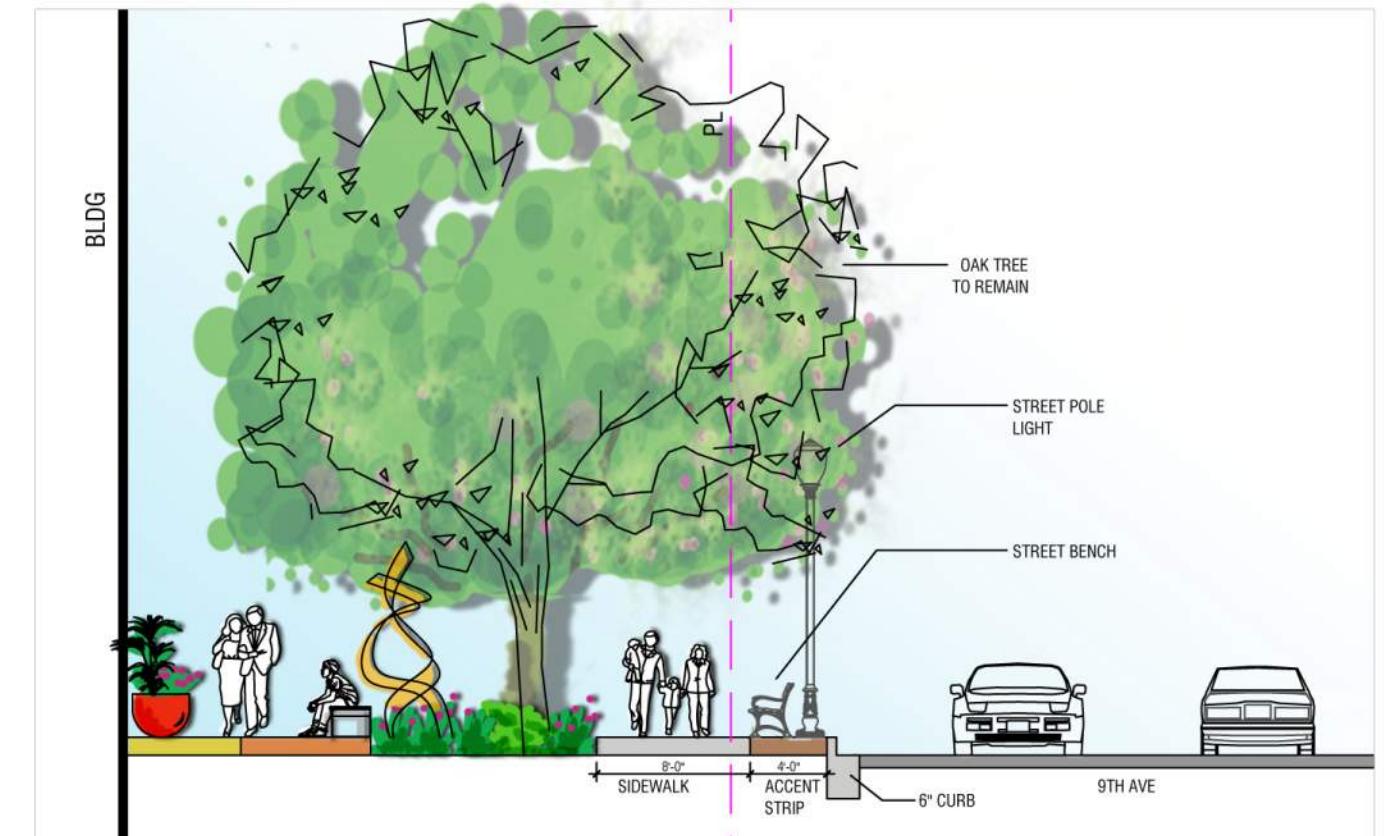
**SECTION 1**  
scale 1" = 10'-0"



**SECTION 3**  
scale 1" = 10'-0"



**SECTION 2**  
scale 1" = 10'-0"

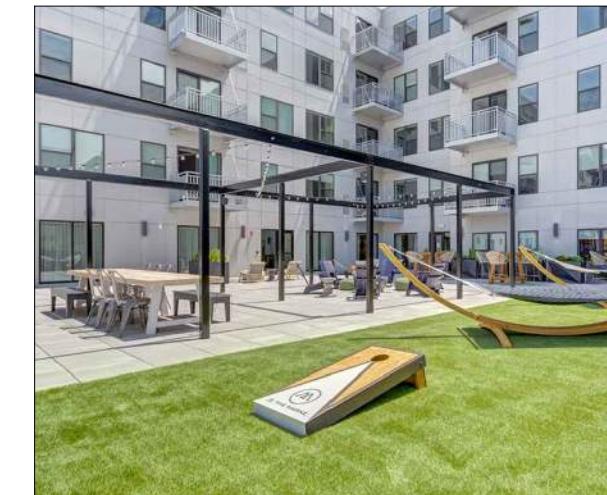


**SECTION 4**  
scale 1" = 10'-0"

**L-1.2**



## PODIUM + ROOF



## SITE



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477 9TH AVE

LANDSCAPE INSPIRATION IMAGERY

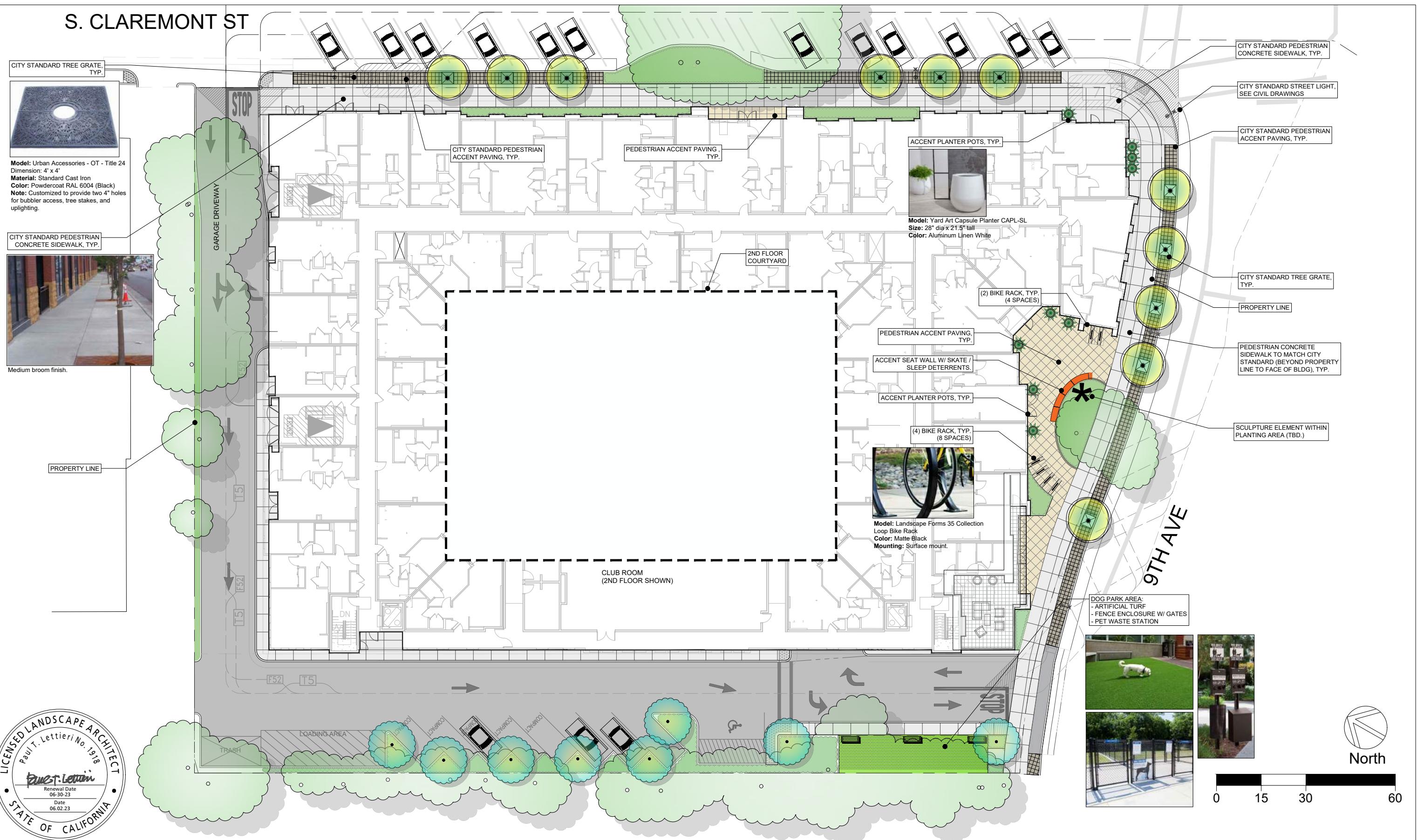
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SAN MATEO, CALIFORNIA

JUNE 23, 2023

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# S. CLAREMONT ST



## SITE LANDSCAPE MATERIALS PLAN

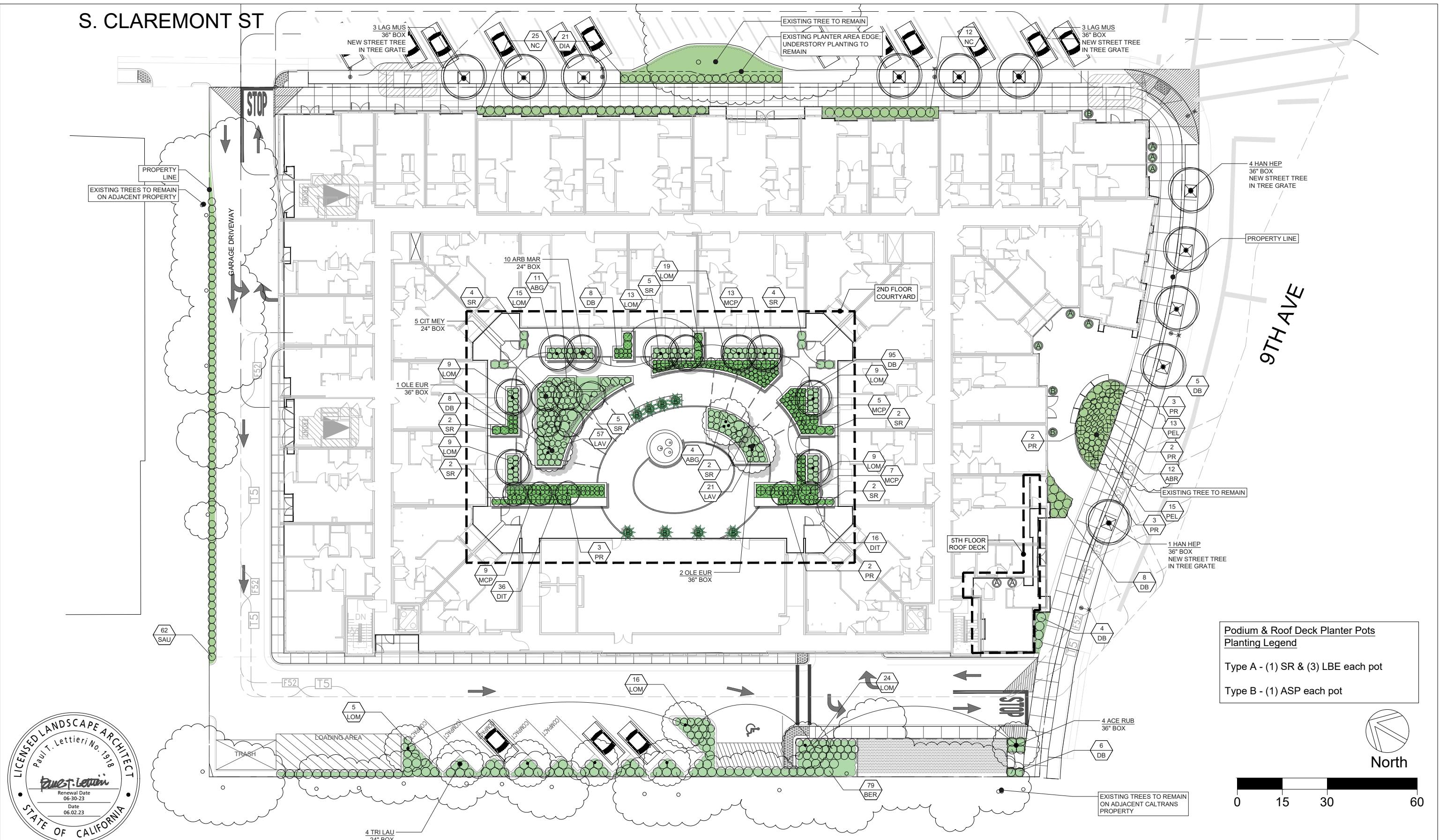
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## PLANTING NOTES

- All work shall be performed by persons familiar with planting work and under supervisions of a qualified planting foreman.
- Plant material locations shown are diagrammatic and may be subject to change in the field by the Landscape Architect before the maintenance period begins.
- All trees are to be staked as shown in the staking diagrams.
- All tree stakes shall be cut 6" above tree ties after stakes have been installed to the depth indicated in the staking diagrams. Single stake all conifers per tree staking diagram.
- Plant locations are to be adjusted in the field as necessary to screen utilities but not to block windows nor impede access. The Landscape Architect reserves the right to make minor adjustments in tree locations after planting at no cost to the Owner. All planting located adjacent to signs shall be field adjusted so as not to interfere with visibility of the signs.
- The Landscape Architect reserves the right to make substitutions, additions, and deletions in the planting scheme as felt necessary while work is in progress. Such changes are to be accompanied by equitable adjustments in the contract price if/when necessary and subject to the Owner's approval.
- All planting areas, including planter pots, except lawns and storm-water treatment zones (as defined by the civil engineer), shall be top-dressed with a 3" layer of recycled wood mulch, "Muir Woods Brown Mulch" by WM Earthcare (877.963.2784; [wmearthcare.com](http://wmearthcare.com)) or approved equal. Submit sample to Landscape Architect for review prior to ordering. Hold all mulch six (6) inches from all plants where mulch is applied over the rootball.
- All street trees to be installed in accordance with the standards and specifications of the City of San Mateo, CA. Contractor to contact the city arborist to confirm plant type, plant size (at installation), installation detailing and locations prior to proceeding with installation of street trees. Contractor is to obtain street tree planting permit from the city, if a permit is required, prior to installation of street trees. Contractor is to consult with the Landscape Architect during this process.
- Plants shall be installed to anticipate settlement. See Tree and Shrub Planting Details.
- All trees noted with 'deep root' and those planted within 5'-0" of concrete paving, curbs, and walls shall have deep root barriers installed per manufacturer's specifications. See specifications and details for materials, depth of material, and location of installation.
- The Landscape Contractor shall arrange with a nursery to secure plant material noted on the drawings and those plants available for review by the Owner and Landscape Architect within thirty (30) days of award of contract. The Contractor shall purchase the material and have it segregated and grown for the job upon approval of the plant material. The deposit necessary for such contract growing is to be born by the Contractor.
- The project has been designed to make efficient use of water through the use of drought tolerant plant materials. Deep rooting shall be encouraged by deep watering plant material as a part of normal landscape maintenance. The irrigation for all planting shall be limited to the amount required to maintain adequate plant health and growth. Water usage should be decreased as plants mature and become established. The irrigation controllers shall be adjusted as necessary to reflect changes in weather and plant requirements.
- The Landscape Contractor shall verify the location of underground utilities and bring any conflicts with plant material locations to the attention of the Landscape Architect for a decision before proceeding with the work. Any utilities shown on the Landscape drawings are for reference and coordination purposes only. See Civil Drawings.
- The design intent of the planting plan is to establish an immediate and attractive mature landscape appearance. Future plant growth will necessitate trimming, shaping and, in some cases, removal of trees and shrubs as an on-going maintenance procedure.
- Install all plants per plan locations and per patterns shown on the plans. Install all shrubs to ensure that anticipated, maintained plant size is at least 2'-0" from the face of building(s) unless shown otherwise on the plans. Refer to Plant Spacing Diagram for plant masses indicated in a diagrammatic manner on the plans. Refer to Plant Spacing Diagram for spacing of formal hedge rows.
- Contractor to provide one (1) Reference Planting Area for review by Landscape Architect prior to installation of the project planting. The Reference Planting Area shall consist of a representative portion of the site of not less than 900 (nine hundred) square feet. Contractor to set out plants, in containers, in the locations and patterns shown on the plans, for field review by the Landscape Architect. The Reference Planting Area will be used as a guide for the remaining plant installation.
- The Maintenance Period(s) shall be for 60 (sixty) days. Portions of the installed landscape of a project may be placed on a maintenance period prior to the completion of the project at the Owner's request and with the Owner's concurrence.
- Contractor to verify drainage of all tree planting pits. See Planting Specifications. Install drainage well per specifications and Tree Planting Detail(s) if the tree planting pit does not drain at a rate to meet the specifications.
- Contractor shall remove all plant and bar code labels from all installed plants and landscape materials prior to arranging a site visit by the Landscape Architect.
- Versicell Drainage panel or approved equal is to be installed in all on-structure planters and all pre-cast planters/pots as shown in the drawings. Material available through: Tournesol, CA 800-542-2282. All drainage panels shall be completely covered with filter fabric as shown in the drawings and per manufacturer's specifications.
- All tree rootballs shall be irrigated by water jet during the sixty (60) day maintenance period established by specifications. This irrigation shall occur each time normal irrigation is scheduled.
- The Landscape Contractor shall, as a part of this bid, provide for a planting allowance for the amount of \$3,000.000 (Three Thousand Dollars) to be used for supplying and installing additional plant material as directed by the Landscape Architect and approved by the Owner in writing. The unused portion of the allowance shall be returned to the Owner at the beginning of the maintenance period.
- The contractor is required to submit plant quantities and unit prices for all plant materials as a part of the bid.
- Assume 15 gallon plant for any un-labelled or un-sized tree; 5 gallon plant for any un-labelled or un-sized shrub; and 1 gallon @ 18" o.c. for any un-labelled ground cover.
- Assume 5 gallon plant size at 36" o.c. for all planting beds not provided with planting callouts or planting information.
- The planting areas on grade shall be ripped to a depth of 8" to reduce compaction. The native subgrade soil shall be treated with 100 lbs of gypsum/1000 sf and leached to improve drainage and reduce the soil interface barrier. Contractor shall coordinate this work with other trades. This is subject to the final recommendations of the soils test (see below) and review by the Landscape Architect and the Owner.
- All planting areas on grade are to receive Vision Comp OMRI Listed Compost by Vision Recycling, (510) 429-1300, or approved equal, at the rate of 6 cubic yards/1000 square feet, evenly tilled 6" deep into the soil to finish grade. All planting areas shall have 6-20-20 Commercial Fertilizer at 25lbs/1000 square feet evenly distributed into the soil. This is subject to the final recommendations and review of the soils test (see below) by the Landscape Architect and the Owner.
- Planting pits are to be backfilled with a mixture of 50% native soil and 50% amended native soil per note #5 above.
- The General Contractor is to provide an agricultural suitability analysis for representative samples of on-site rough graded soil and any imported topsoil. Recommendations for amendments contained in this analysis are to be carried out before planting occurs. Such changes are to be accompanied by equitable adjustments in the contract price if/when necessary. See specifications for testing procedure.
- For built in place planters on structure, use imported regular weight soil mix.
- For planter pots, use lightweight soil mix / see written specifications.
- See civil drawings for imported storm water treatment area soil. Contractor to provide agricultural suitability analysis of the soil with amendment recommendations to the Landscape Architect for review.



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## PLANT PALETTE

TREES					
KEY	SIZE	BOTANICAL NAME	COMMON NAME	COMMENTS	WUCOLS
ACE RUB	24"/36"box	Acer rubrum 'October Glory'	'October Glory' Red Maple	standard	Medium
ARB MAR	24"box	Arbutus 'Marina'	Marina Strawberry Tree	multi	Low
TRI LAU	24"box	Tristania laurina	Water Gum Tree	standard	Medium
PLA ACE	36"box	Platanus a. 'Columbia'	London Plane Tree		Medium
LAG NAT	24"box	Lagerstroemia i 'Natchez'	Natchez Crepe Myrtle	multi	Low
OLE EUR	specimen	Olea europaea 'Wilsonii'	Fruitless Olive Tree	multi	Very Low
HAN HEP	36"box	Handroanthus heptaphyllus	Pink Trumpet Tree	standard	Medium
STR REG	24"box	Strelitzia nicolai	Giant Bird of Paradise	multi	Low

SHRUBS					
KEY	SIZE	BOTANICAL NAME	COMMON NAME	SPACING	WUCOLS
ABG	5 gal	Agave 'Blue Glow'	Blue Glow Agave	-	L
ACA	5 gal	Acacia 'Cousin Itt'	Little River Wattle	36" oc	L
ASP	5 gal	Asparagus d. 'Meyeri'	Myers Asparagus	24" oc	M
BER	5 gal	Berberis aquifolium repens	Creeping Barberry	36" oc	L
CAL	5 gal	Caladrina spectabilis	Rock Purslane	24" oc	L
DB	5 gal	Dieteric bicolor 'Orange Drop'	Fortnight Lily	36" oc	L
MCA	5 gal	Myrica californica	California Coffeeberry	60" oc	L
PR	5 gal	Phormium 'Rainbow Queen'	Rainbow Queen Flax	36" O.C.	L
SRE	15 gal	Strelitzia reginae	Birds of Paradise	36" O.C.	M
NC	5 gal	Nephrolepis cordifolia	Southern Sword Fern	36" O.C.	M

SUB SHRUBS, GRASSES, FERNS					
KEY	SIZE	BOTANICAL NAME	COMMON NAME	SPACING	WUCOLS
CEL	5 gal	Chondropetalum elephantum	Large Cape Rush	42" O.C.	L
MCP	5 gal	Muhlenbergia capillaris 'White Cloud'	White Muhy Grass	36" O.C.	L
LOM	1 gal	Lomandra 'Platinum Beauty'	Variegated Dwarf Mat Rush	30" O.C.	L
PEL	1 gal	Pennisetum a. 'Little Bunny'	Little Bunny Fountain Grass	24" O.C.	L
SAU	1 gal	Sesleria autumnalis	Autumn Moor Grass	24" O.C.	L

GROUNDCOVERS & VINES					
KEY	SIZE	BOTANICAL NAME	COMMON NAME	SPACING	WUCOLS
LBE	1 gal	Lotus berthelotii	Parrot's Beak	-	L
SMA	1 gal	Senecio mandraliscae	Blue Chalk Sticks	-	L

### PLANTING DESIGN NOTES:

- The above plants have been selected as being representative of the overall planting design intent, but does not preclude use of other appropriate planter material. The landscape shall incorporate plants that are tolerant of the challenging conditions of the site and that are appropriate to the local climate.
- All trees shall be a minimum of 24" box size. All shrubs and vines shall be a minimum of 5 gallon size. All groundcover shall be a minimum of 1 gallon size.
- All planted areas are to be watered with an approved automatic underground irrigation system. The system shall be designed to make efficient use of water through conservation techniques, and be in compliance with the State's and Water District's rules and regulations for water service and water use.
- Water use value based on WUCOLS (Water Use Classification of Landscape Species) IV, 2014 edition.

477 9TH AVE

PLANTING NOTES AND LEGENDS

L-3.2

SAN MATEO, CALIFORNIA

JUNE 23, 2023

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## PRELIMINARY IRRIGATION SYSTEM LEGEND

	IRRIGATION BACKFLOW PREVENTION DEVICE - FEBCO-825Y-BV
IRRIGATION SUPPLYLINE- 2" AND LARGER	-1120/CLASS 315 PVC PIPE -18" COVER
IRRIGATION SUPPLYLINE-1.5" & SMALLER	-1120/SCHEDULE 40 PVC PIPE -18" COVER
IRRIGATION SPRINKERLINE	-1120/CLASS 200 PVC PIPE -12" COVER
ELECTRICAL CONDUIT	-1120/SCHEDULE 40 ELECTRICAL CONDUIT -24" COVER
SLEEVING	-1120/SCHEDULE 40 PVC PIPE -24" COVER

## WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ET <sub>0</sub> )		45.3		Irrigation Efficiency (IE) <sup>c</sup>	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) <sup>d</sup>
Hydrozone # /Planting Description <sup>a</sup>	Plant Factor (PF)	Irrigation Method <sup>b</sup>						
<b>Regular Landscape Areas</b>								
Low Water-Use Plants	0.30	Drip	0.81	0.37	3,102	1,148	32,235	
Moderate Water- Use Plants	0.50	Drip	0.81	0.62	880	546	15,324	
High Water-Use Plants	0.80	Drip	0.81	0.99	0	0	0	
Moderate Water-Use Turf EVA	0.50	Spray	0.75	0.67	0	0	0	
					(A)	(B)		
				Totals	3,982	1,693	47,559	
<b>Special Landscape Areas</b>								
water feature					78			
					(C)	(D)		
				Totals	0	0		
				ETWU Total	47,559			
				Maximum Allowed Water Allowance (MAWA) <sup>e</sup>	50,327			

<sup>a</sup>Hydrozone #/Planting Description

E.g.

- 1.) front lawn
- 2.) low water use plantings
- 3.) medium water use planting

<sup>b</sup>Irrigation Method

overhead spray

0.75 for spray head

or drip

0.81 for drip

<sup>c</sup>ETWU (Annual Gallons Required) =  $Eto \times 0.62 \times ETAF \times Area$

where 0.62 is a conversion factor that converts acre- inches per acre per year to gallons per square foot per year.

<sup>d</sup>MAWA (Annual Gallons Allowed) =  $(Eto) (0.62) [ (ETAF \times LA) + ((1-ETAF) \times SLA) ]$

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

### ETAF Calculations

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

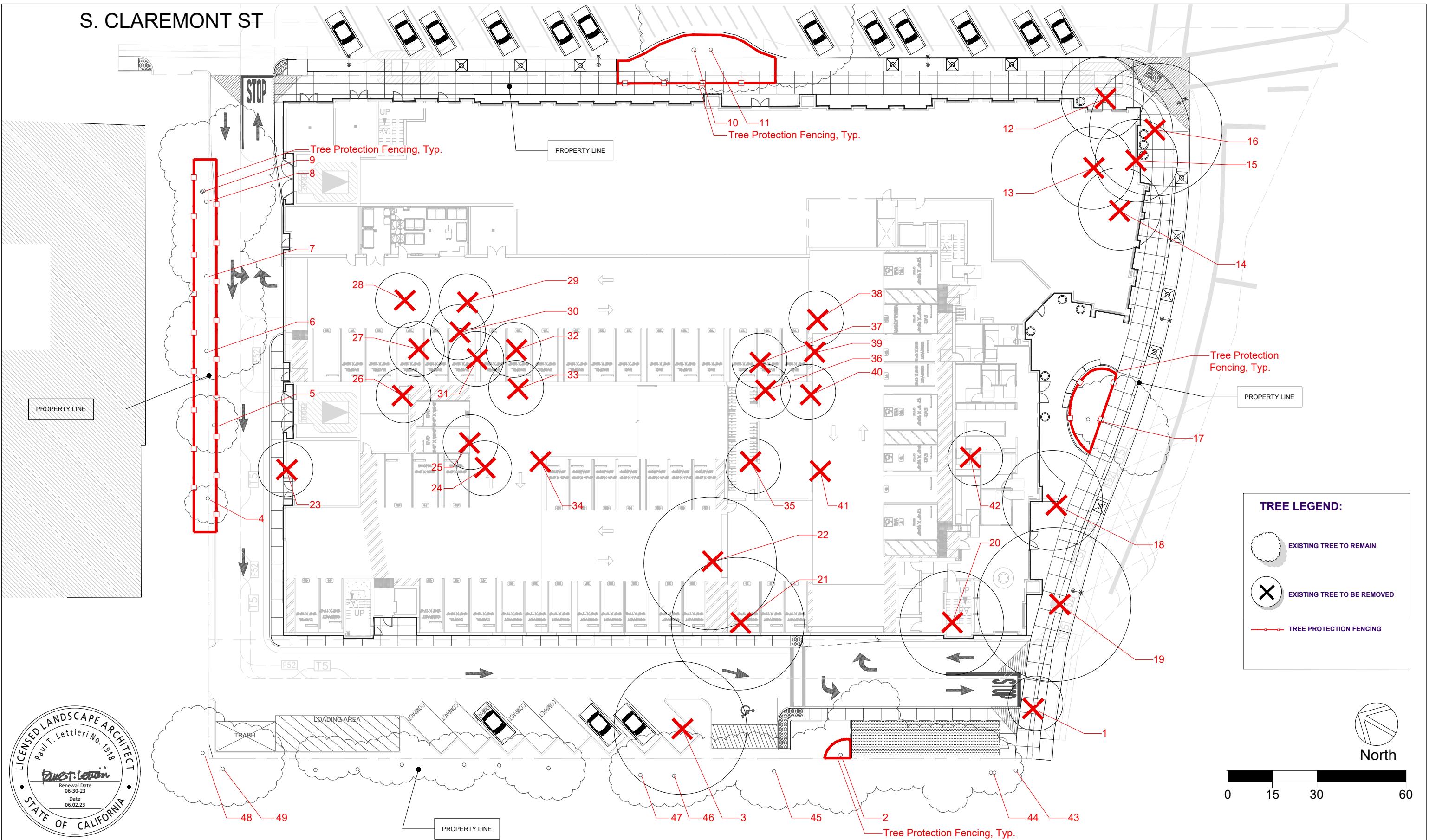
Total ETAF x Area (B)	1,693
Total Area (A)	3,982
Average ETAF	0.42524861878453

### All Landscape Areas

Total ETAF x Area (B+D)	1,693
Total Area (A+C)	3,982
Sitewide ETAF (B+D) ÷ (A+C)	0.42524861878453



S. CLAREMONT ST



TREE DISPOSITION PLAN L-5.1

477 9TH AVE

## SAN MATEO, CALIFORNIA

JUNE 23, 2023



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Required Tree Planting	Off-site trees outside the property line & street trees; Tree #4-11, 43-49
------------------------	---

Zoning Code, Section 27.71 – Landscape, requires all projects to have a minimum ratio of **1 tree per 400 square feet** of landscaped area. Existing trees that are a minimum of 6 inch diameter may count toward this total.

Landscape Area: 0 sq. ft.  $\div$  400 = 0 (a)

Number of existing trees from Tree Evaluation Schedule with a 6 inch or greater diameter **to be preserved:** 13 (b)

Landscape Unit (LU) value of trees **to be removed** from the Tree Evaluation Schedule: 0 (c)

Minimum LU value to be replaced and/or met through payment of in-lieu fees: [a – b + c = d] -13 (d)

**New Trees:**  
A “landscape unit” (LU) value equivalent to (d) above, must either be planted on site, or an “in-lieu” fee paid to the city’s street tree planting fund. If the LU value shown at (e) is not equal or greater than (d), then an in-lieu fee must be paid to the City’s street tree planting fund at the rate defined annually in the City’s Comprehensive Fee Schedule for each deficient LU.

**New Trees Being Planted\***

Quantity	Size	LU Value	Total LU Value
0	15 gallon	1	0
0	24 inch box	2	0
13	36 inch box	3	39
0	48 inch box	4	0

**Total LU Value of new trees being proposed:** 39 (e)

\*New replacement trees shall be in addition to and not substitute requirements for new street trees, parking lot trees or other required trees.

**Fees Owed to the City Street Tree Planting Fund:** \_\_\_\_\_  
If (d) is greater than (e), there will be an LU value deficit calculated as follows:

13.39  
[d – e = -52]  $\times$  (the annually defined \$ per LU value as per  
Current Comprehensive Fee Schedule) \$336.86 = \$ 0

On-site trees within the property line; Tree #1-3, 5, 12-42			
Required Tree Planting			
Zoning Code, Section 27.71 – Landscape, requires all projects to have a minimum ratio of <b>1 tree per 400 square feet</b> of landscaped area. Existing trees that are a minimum of 6 inch diameter may count toward this total.			
Landscape Area: <u>3576</u> sq. ft. ÷ 400 =	<u>8.94</u> (a)		
Number of existing trees from Tree Evaluation Schedule with a 6 inch or greater diameter <b>to be preserved:</b>	<u>3</u> (b)		
Landscape Unit (LU) value of trees <b>to be removed</b> from the Tree Evaluation Schedule:	<u>155.0</u> (c)		
Minimum LU value to be replaced and/or met through payment of in-lieu fees: [a – b + c = d]	<u>160.94</u> (d)		
<b>New Trees:</b>			
A “landscape unit” (LU) value equivalent to (d) above, must either be planted on site, or an “in-lieu” fee paid to the city’s street tree planting fund. If the LU value shown at (e) is not equal or greater than (d), then an in-lieu fee must be paid to the City’s street tree planting fund at the rate defined annually in the City’s Comprehensive Fee Schedule for each deficient LU.			
<b>New Trees Being Planted*</b>			
Quantity	Size	LU Value	Total LU Value
0	15 gallon	1	0
4	24 inch box	2	8
4	36 inch box	3	12
0	48 inch box	4	0
<b>Total LU Value of new trees being proposed:</b>		<u>20</u>	(e)
*New replacement trees shall be <u>in addition to</u> and <u>not substitute</u> requirements for new street trees, parking lot trees or other required trees.			
<b>Fees Owed to the City Street Tree Planting Fund:</b> _____			
If (d) is greater than (e), there will be an LU value deficit calculated as follows:			
160.94-20	$160.94 - 20 = 140.54$	$140.54 \times (\text{the annually defined \$ per LU value as per Current Comprehensive Fee Schedule})$	$\$336.86 = \$ 47,342.30$



## **TREE PROTECTION/DISPOSITION NOTES**

1. See Tree Disposition Plan for trees to be removed and to remain.
2. Refer to Arborist Report page 8, 9, 10 and Landscape sheets L5.6, L5.7, L-5.17 & L-5.18 for Tree protection requirement.
3. Refer to Arborist Report for other tree disposition notes and recommendations.



477 9TH AVE

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## TREE DISPOSITION NOTES AND LEGENDS

SAN MATEO, CALIFORNIA

JUNE 23, 2023

L-5.2

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**Preliminary Arborist Report**  
477 9<sup>th</sup> Avenue  
San Mateo, CA 94402

**Introduction and Overview**

The Martin Group is redeveloping a commercial property located at 477 9<sup>th</sup> Avenue in San Mateo. HortScience | Bartlett Consulting (Divisions of The F.A. Bartlett Tree Expert Company) was asked to prepare a **Preliminary Arborist Report** for the trees potentially impacted by this project as required by the City of San Mateo's Protected Trees Ordinance 13.40.

This report provides the following information:

1. Assessment of the health and structural condition of the trees within the proposed project area based on a visual inspection from the ground.
2. Preliminary evaluation of the impacts to trees based on site plans provided by The Martin Group.
3. Guidelines for tree preservation during the design, construction and maintenance phases of development.

**Tree Assessment Methods**

Trees were assessed on April 25, 2022. The assessment included all trees with a trunk diameter of 4" or larger within the project boundary or with canopy overhanging the property. Trees were tagged #1-49. The assessment procedure consisted of the following steps:

1. Identifying the tree species.
2. Tagging each tree with an identifying number and recording its location on a map.
3. Measuring the trunk diameter at a point 54" above grade.
4. Evaluating the health and structural condition using a scale of 1 – 5 based on a visual inspection from the ground:
  - 5 - A healthy, vigorous tree, reasonably free of signs and symptom of disease, with good structure and form typical of the species.
  - 4 - Tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could be corrected.
  - 3 - Tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that might be mitigated with regular care.
  - 2 - Tree in decline, epicormic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.
  - 1 - Tree in severe decline, dieback of scaffold branches and/or trunk; most of foliage from epicormics; extensive structural defects that cannot be abated.



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5. Rating the suitability for preservation as "high", "moderate" or "low". Suitability for preservation considers the health, age and structural condition of the tree, and its potential to remain an asset to the site for years to come.

**High:** Trees with good health and structural stability that have the potential for longevity at the site.

**Moderate:** Trees with somewhat declining health and/or structural defects that can be abated with treatment. The tree will require more intense management and monitoring and may have shorter life span than those in 'high' category.

**Low:** Tree in poor health or with significant structural defects that cannot be mitigated. Tree is expected to continue to decline, regardless of treatment. The species or individual may have characteristics that are undesirable for landscapes and generally are unsuited for use areas.

**Description of Trees**

Forty-nine (49) trees representing 10 species were evaluated. Tree conditions ranged from poor (11 trees) to good (6 trees) with 65% of the trees in fair condition. Seven off-site trees were included in this assessment (#43-49). Descriptions of each tree are found in the **Tree Assessment**, and approximate locations are plotted on the **Tree Assessment Map** (see Exhibits).

**Table 1. Condition ratings and frequency of occurrence of trees.**  
477 9<sup>th</sup> Avenue, San Mateo, CA

Common Name	Scientific Name	Condition			Total
		Poor (1-2)	Fair (3)	Good (4-5)	
Blackwood acacia	<i>Acacia melanoxylon</i>	-	1	-	1
European white birch	<i>Betula pendula</i>	4	1	-	5
Silver dollar gum	<i>Eucalyptus polyanthemos</i>	-	6	-	6
Ginkgo	<i>Ginkgo biloba</i>	1	-	-	1
Sweetgum	<i>Liquidambar styraciflua</i>	1	9	-	10
Olive	<i>Olea europaea</i>	3	4	2	9
Purpleleaf plum	<i>Prunus cerasifera</i>	-	-	1	1
Coast live oak	<i>Quercus agrifolia</i>	1	7	2	10
Valley oak	<i>Quercus lobata</i>	-	1	-	1
Chinese elm	<i>Ulmus parvifolia</i>	1	3	1	5
<b>Total</b>		<b>11</b>	<b>32</b>	<b>6</b>	<b>49</b>

A single story office building was surrounded by a parking lot, landscaping, and pedestrian sidewalks. The majority of the trees were located around the building and the perimeter of the parking lot, with a few trees located near parking stalls in the parking lot. Much of the landscaped area was covered in rocks of varying sizes. The most frequently occurring species were coast live oaks and sweetgums, with 10 of each species on the site.

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**477 9TH AVE**

**SAN MATEO, CALIFORNIA**

**JUNE 23, 2023**

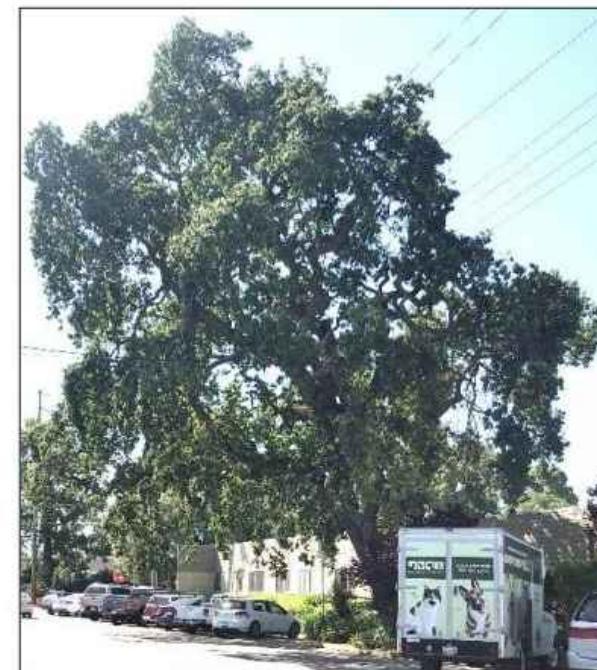
**TREE DISPOSITION NOTES AND LEGENDS**

**L-5.3**

The largest tree assessed (56 inch trunk diameter) was valley oak #11 on the northeast side of the property (Photo #1). Along with purpleleaf plum #12, these were the only street trees and were growing in an approximately 8 foot by 35 foot island extending into South Claremont Street. Cavities were visible in three large limbs including a beehive within the southeast stem. The west-side canopy of the tree had been pruned for utility line clearance.

Ten coast live oaks were included in the assessment. The majority (7 trees) of the coast live oaks were in fair condition. Coast live oaks #48 and 49 (both off-site) were in good condition with dense green crowns. Coast live oak #19 was in poor condition, with a sparse canopy, twig dieback, and abnormally enlarged buttress roots on the north side of the tree (Photo #2). The live oaks ranged from young (8-inch trunk diameter) to mature (37 inch trunk diameter) with an average trunk diameter of 19 inches.

Ten sweetgums were included in the assessment. All the sweetgums were planted in the same courtyard, and 7 of the 10 sweetgums were growing in raised planters. All the sweetgums had been topped and had weakly attached branches as a result. Nine sweetgums were in fair condition and sweetgum #27 was in poor condition; the roots of this sweetgum had been pruned on three sides at 1 foot from the trunk (Photo #2).



**Photo 1.** The crown of valley oak #11 had been pruned for overhead utilities but extended far over South Claremont Street.



Nine multi-trunked olives were growing on the southeast and southwest sides of the existing building. Tree conditions ranged from poor (#35, 41, 42) to good (#12, 15). Four olives were in fair condition. The three olives in poor condition had been topped; their crowns were sparse with poor color and twig dieback throughout the canopy. The olives were all semi-mature with multiple trunks arising at 1-2 ft above ground and stems ranging from 12 inches to 3 inches in diameter.

**Photo 2.** Roots had been cut on three sides of sweetgum #27.

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Six silver dollar gums were assessed, and all were in fair condition. All six trees were growing in a 3-foot-wide planting strip on the northwest side of the property (Photo 3). Silver dollar gums #4-6 had sparse, crowded canopies due to their proximity to one another. Silver dollar gums were some of the largest trees assessed with an average trunk diameter of 25 inches. In particular, trees #7-9 had larger diameter trunks that filled the narrow planting strip.

Five European white birches were assessed. All the European white birch had been topped. Four of the birches (36, 37, 39, 40) were in poor condition, with sparse crowns and twig dieback throughout the canopy. One birch (#38) was in fair condition, with a slightly fuller crown and minor twig dieback. Trunk diameters for these five trees ranged from 5 to 8 inches.

Five Chinese elms were included in the assessment, and all were planted in the parking lot on the southwest side of the building. Three elms (#2, 21, & 22) were in fair condition, elm #3 was in good condition (Photo 4), and elm #20 was in poor condition. Three of the five elms had been topped. Chinese elm #2 had a metal pole embedded in the trunk up to a height of 3.5 feet.

The remaining three species were represented by one tree each. These trees included:

- Ginkgo #1 was a young tree in poor condition. The tree had multiple trunks arising from the base, and the west-most trunk was mostly dead.
- Purpleleaf plum #10 was in good condition. The young tree was growing under the canopy of valley oak #11, and had a dense canopy
- Blackwood acacia #16 was in fair condition. The 41-inch trunk divided into two stems at 5 feet, and the crown had separated, potentially indicating a future failure.

#### San Mateo Tree Protection Requirements

The City of San Mateo Municipal Code 27.71 protects all trees during on construction projects 6" and greater in diameter. Municipal Code 13.40 defines oaks with a trunk diameter of 10 inches and larger and any other species with a trunk diameter of 15 inches as **Heritage Trees**. Based on these definitions, **all trees are protected, and 21 trees are Heritage Trees**. There are also two street trees included in the assessment, one of which is also Heritage. Protected status designations for individual trees are provided in the **Tree Assessment** (see Exhibits). Permits and replacement tree plantings are required for the removal of all protected trees. Tree replacements should be selected from species on the City's Official Replant List.



**Photo 3.** The silver dollar gums (#5 and 6 shown) were growing in a row in narrow planting strip.

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### Suitability for Preservation

Before evaluating the impacts that will occur during development, it is important to consider the quality of the tree resource itself and the potential for individual trees to function well over an extended length of time. Trees that are preserved on development sites must be carefully selected to make sure that they may survive development impacts, adapt to a new environment, and perform well in the landscape.

Our goal is to identify trees that have the potential for long-term health, structural stability, and longevity. When trees are growing in open fields and are away from areas where people and property are present, structural defects and/or poor health present a low risk of damage or injury if they fail. However, we must be concerned about safety in areas that are used by people or occupied by structures and property. Therefore, where development encroaches into existing plantings, we must consider the structural stability of the tree as well as the potential of the tree to grow and thrive in a new environment. Where development will not occur, the normal tree life cycles of decline, structural failure, and death should be allowed to continue.

Evaluation of suitability for preservation considers several factors:

- **Tree health**

Healthy, vigorous trees are better able to tolerate impacts such as root injury, demolition of existing structures, changes in soil grade and moisture, and soil compaction than are non-vigorous trees. The young, vigorous purpleleaf plum is healthy and will likely tolerate construction better than a less healthy tree.

- **Structural integrity**

Trees with significant amounts of wood decay and other structural defects that cannot be corrected are likely to fail. Such trees should not be preserved in areas where damage to people or property is likely. Sweetgum #27 has poorly attached branches re-growing from heading cuts and should not be preserved.

- **Species response**

There is a wide variation in the response of individual species to construction impacts and changes in the environment. For example, coast live oaks and olives are more tolerant of construction impacts than valley oak and European white birch.

- **Tree age and longevity**

Old trees, while having significant emotional and aesthetic appeal, have limited physiological capacity to adjust to an altered environment. Young trees are better able to generate new tissue and respond to change. While valley oak #11 is a tree that all parties want to preserve, there will be some challenges due to its age.

- **Species invasiveness**

Species that spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. The California Invasive Plant Inventory Database <http://www.cal-ipc.org/plants/inventory/> lists species identified as being invasive. San Mateo is part of the Central West Floristic Province. Purpleleaf plums and olives are invasive on a limited basis.

Each tree was rated for suitability for preservation based upon its age, health, structural condition, and ability to safely coexist within a development environment (see **Tree Assessment** in Exhibits, and Table 2). We consider trees with high suitability for preservation to be the best candidates for preservation. We do not recommend retention of trees with low suitability for preservation in areas



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where people or property will be present. Retention of trees with moderate suitability for preservation depends upon the intensity of proposed site changes.

**Table 3. Tree suitability for preservation**  
499 9<sup>th</sup> Avenue, San Mateo, CA.

<b>High</b>	These are trees with good health and structural stability that have the potential for longevity at the site. One tree (#12) had high suitability for preservation.
<b>Moderate</b>	Trees in this category have fair health and/or structural defects that may be abated with treatment. These trees require more intense management and monitoring and may have shorter lifespans than those in the "high" category. Nineteen (19) trees had moderate suitability for preservation.
<b>Low</b>	Trees in this category are in poor health or have significant defects in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Twenty-nine (29) trees had low suitability for preservation.

### Preliminary Evaluation of Impacts and Recommendations

The **Tree Assessment Form** was the reference point for tree health, condition, and suitability for preservation. Full development plans were not yet available at the writing of this report. I used the Illustrative Landscape plan created by The Guzzardo Partnership dated March 18, 2022 to evaluate preliminary impacts to trees. These plans appear to have accurate trunk locations of trees planned for preservation, but not those being removed. The plan showed a larger building, filling much of the property with redesigned landscaping and parking. This report is considered preliminary because the team is relatively early in the design process, and I did not review a comprehensive plan set.

Based on my review of the proposed plans and my evaluation of the trees:

- 17 trees can potentially be preserved [14 Heritage and 2 Street Trees (valley oak #11 is both a Heritage and Street Tree)].
- 32 trees will be removed (7 Heritage).

While 17 trees are listed to be potentially preserved, more evaluation and planning will be required along with careful construction techniques to actually preserve these trees. For mature trees growing in small spaces in the urban environment, traditional approaches (such as the City preferred 10x TPZ system) are difficult to enact.

For instance, trees #11 and #17 are large oaks with construction planned within 10 feet of their trunk. The planter that contains valley oak #11 is proposed to be expanded enlarging the growth space at the base. Construction work performed near the valley oak could result in significant root loss depending on the exact location of the sidewalk. The canopy of the tree may also need to be reduced to accommodate a scaffolding during building construction. These actions have the potential to have a significant impact on the health of the valley oak. Coast live oak #17 may also experience significant negative impacts, the sidewalk will be moved closer to the trunk of the tree on one side, and a brick patio area will be installed within ten feet of the trunk on the other side. These impacts could be significant.

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477 9TH AVE

SAN MATEO, CALIFORNIA

JUNE 23, 2023

The proposed increase in the size of the building will result in 28 tree removals. Conflicts with hardscape or parking lot account for the rest of the removals. The design team would like to preserve Tree #3. The tree was not accurately plotted on the plans, however maintaining a similar or larger parking cutout will provide plenty of space for the tree to continue to thrive, especially if irrigation is added.

Details about individual trees are listed in the **Tree Disposition** exhibit, and successful retention of the trees to be preserved will require adherence to the **Tree Preservation Guidelines** below.

#### Landscape Unit (LU) Calculation

The City of San Mateo requires the calculation of the Landscape Unit (LU) value for all trees with a diameter of 6 inches or more proposed for removal. The calculation is described in the City's Zoning Code, Section 27.21. The value is based on the factors of species, condition and location, adapted from the *Guide for Plant Appraisal* prepared by Council of Tree and Landscape Appraisers. The City of San Mateo provides a form for use in this calculation. Key elements of the LU calculation include:

- Using the trunk diameter measurements obtained during our field assessment. Where trees had more than one stem, the trunk diameter equivalent to the sum of the cross-sectional areas of each stem was used.
- Assigning a rating to each species based on the *Species Classification and Group Assignment* prepared by the Western Chapter of the International Society of Arboriculture (2004).
- Assigning a condition rating based on our observations in the field.
- Assigning a location rating based on each tree's site, placement, and contribution.
- Determining if the tree is located within the buildable area. Off-site and street trees were considered to be outside of the buildable area.
- Determining if any trees met the City's criteria for *Heritage* status.

Based on my observations at the site and assessment of the key factors, I calculated the LU value of the 49 trees to be 442.7 Landscape Units (See **LU Evaluation Schedule** in Exhibits). The value of the 32 trees planned for removal is 155.5 Landscape Units.

The City of San Mateo requires replacement of the LU values to be lost during development. Replacement can either be through tree planting in excess of any required planting or through payment of an in-lieu fee. The total in-lieu fee for the 49 trees is \$138,554.

#### Estimate of Value

To estimate the value of the trees, I used the cost approach, reproduction method, trunk formula technique, as described in the *Guide for Plant Appraisal*, 10<sup>th</sup> edition (International Society of Arboriculture, Champaign IL, 2018). In addition, I referred to *Species Classification and Group Assignment* (2004), a publication of the Western Chapter of the International Society of Arboriculture.

When estimating reproduction cost, the trunk formula technique considers four factors: size, condition, functional limitations and external limitations. Size is measured as trunk diameter, normally 54" above grade. Condition reflects the health and structural integrity of the tree. Functional limitations reflect constraints to tree development based on the site and species. For this site, I did not factor in any external limitations.

The total reproduction cost of all 49 assessed trees is \$312,400. The estimated value of each tree is listed in the **Estimated Value** exhibit.

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#### Preliminary Tree Preservation Guidelines

The goal of tree preservation is not merely tree survival during development but maintenance of tree health and beauty for many years. Trees retained on sites that are either subject to extensive injury during construction or are inadequately maintained become a liability rather than an asset. The response of individual trees depends on the amount of excavation and grading, care with which demolition is undertaken, and construction methods. Coordinating any construction activity inside the **TREE PROTECTION ZONE** can minimize these impacts.

The following recommendations will help reduce impacts to trees from development and maintain and improve their health and vitality through the clearing, grading and construction phases.

#### Tree Protection Zone

1. A **TREE PROTECTION ZONE** shall be identified for each tree to be preserved on the Tree Protection Plan prepared by the project arborist.
  - a. Fence all trees to be retained to completely enclose the **TREE PROTECTION ZONE** prior to demolition, grubbing or grading. Fences shall be 6 ft. chain link with posts sunk into the ground or equivalent as approved by the City.
  - b. No grading, excavation, construction or storage or dumping of materials shall occur within the **TREE PROTECTION ZONE**.
  - c. No underground services including utilities, sub-drains, water or sewer shall be placed in the **TREE PROTECTION ZONE**.

#### Design recommendations

1. Plot accurate locations of all trees to be preserved on all project plans. The development plans shall be reviewed by the consulting arborist with regard to tree impacts. These include, but are not limited to, site plans, improvement plans, utility and drainage plans, grading plans, landscape and irrigation plans, and demolition plans.
2. Plan for tree preservation by designing adequate space around trees to be preserved. This is the **TREE PROTECTION ZONE**: No grading, excavation, construction or storage of materials should occur within that zone. Route underground services including utilities, sub-drains, water or sewer around the **TREE PROTECTION ZONE**. For design purposes, the **TREE PROTECTION ZONE** shall be the limits shown on the Tree Protection Plan.
3. Consider the vertical clearance requirements near trees during design. Avoid designs that would require pruning more than 15% of a tree's canopy.
4. Irrigation systems must be designed so that no trenching severs roots larger than 1" in diameter will occur within the **TREE PROTECTION ZONE**.
5. **Tree Preservation Guidelines** prepared by the Consulting Arborist, which include specifications for tree protection during demolition and construction, should be included on all plans.
6. Any herbicides placed under paving materials must be safe for use around trees and labeled for that use.
7. Do not lime the subsoil within 50' of any tree. Lime is toxic to tree roots.
8. As trees withdraw water from the soil, expansive soils may shrink within the root area. Therefore, foundations, footings and pavements on expansive soils near trees should be designed to withstand differential displacement.
9. Ensure adequate but not excessive water is supplied to trees; in most cases occasional irrigation will be required. Avoid directing runoff toward trees.

#### Pre-demolition and pre-construction treatments and recommendations

1. The demolition and construction superintendents shall meet with the Consulting Arborist before beginning work to review all work procedures, access routes, storage areas, and tree protection measures.
2. Fence all trees to be retained to completely enclose the Tree Protection Zone prior to demolition, grubbing or grading. Fences shall be 6 ft. chain link. Fences are to remain until all grading and construction is completed. The **TREE PROTECTION ZONE** shall be the limits shown on the Tree Protection Plan.
3. Where demolition must occur close to trees, such as removing curb and pavement, install temporary trunk protection devices such as winding silt sock wattle or wood planks around trunks or stacking hay bales around tree trunks to a height of approximately 5'. Any low branches that are within the work zone should also be protected. Remove trunk protection after demolition is completed and install protective fence at the limits of the tree protection zone. Do not retain wattling around tree trunks for more than 2-3 weeks to avoid damaging trunks from excess moisture.
4. Apply and maintain 4-6" wood chip mulch within the **TREE PROTECTION ZONE**. Keep the mulch 2' from the base of tree trunks.
5. Structures and underground features to be removed within the **TREE PROTECTION ZONE** shall use equipment that will minimize damage to trees above and below ground and operate from outside the **TREE PROTECTION ZONE**. Tie back branches and wrap trunks with protective materials to protect from injury as directed by the Project arborist. The Project arborist shall be on-site during all operations within the **TREE PROTECTION ZONE** to monitor demolition activity.
6. All tree work shall comply with the Migratory Bird Treaty Act as well as California Fish and Wildlife code 3503-3513 to not disturb nesting birds. To the extent feasible tree pruning and removal should be scheduled outside of the breeding season. Breeding bird surveys should be conducted prior to tree work. Qualified biologists should be involved in establishing work buffers for active nests.

#### Recommendations for tree protection during construction

1. Any approved grading, construction, demolition or other work within the **TREE PROTECTION ZONE** or within 15 feet of any tree being preserved should be monitored by the Consulting Arborist.
2. All contractors shall conduct operations in a manner that will prevent damage to trees to be preserved.
3. Tree protection devices are to remain until all site work has been completed within the work area. Fences or other protection devices may not be relocated or removed without permission of the Consulting Arborist.
4. Construction trailers, traffic and storage areas must remain outside **TREE PROTECTION ZONE** at all times.
5. Any root pruning required for construction purposes shall receive the prior approval of and be supervised by the Consulting Arborist. Roots should be cut with a saw to provide a flat and smooth cut. Removal of roots larger than 2" in diameter should be avoided.
6. Spoil from trench, footing, utility or other excavation shall not be placed within the **TREE PROTECTION ZONE**, neither temporarily nor permanently.
7. All grading within the dripline of trees shall be done using the smallest equipment possible. The equipment shall operate perpendicular to the tree and operate from outside the **TREE PROTECTION ZONE**.

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**PROTECTION ZONE.** Any modifications must be approved and monitored by the Consulting Arborist.

8. All trees shall be irrigated on a schedule to be determined by the Consulting Arborist (every 3 to 6 weeks is typical). Each irrigation shall wet the soil within the **TREE PROTECTION ZONE** to a depth of 30".
9. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Consulting Arborist so that appropriate treatments can be applied.
10. No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the **TREE PROTECTION ZONE**.
11. Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

#### Maintenance of impacted trees

Preserved trees will experience a physical environment different from that pre-development. As a result, tree health and structural stability should be monitored. Occasional pruning, fertilization, mulch, pest management, replanting and irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority. Inspect trees annually and following major storms to identify conditions requiring treatment to manage risk associated with tree failure.

Our procedures included assessing trees for observable defects in structure. This is not to say that trees without significant defects will not fail. Failure of apparently defect-free trees does occur, especially during storm events. Wind forces, for example, can exceed the strength of defect-free wood causing branches and trunks to break. Wind forces coupled with rain can saturate soils, reducing their ability to hold roots, and blow over defect-free trees. Although we cannot predict all failures, identifying those trees with observable defects is a critical component of enhancing public safety.

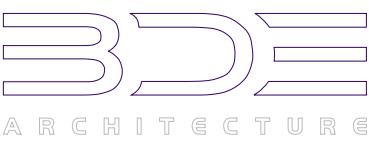
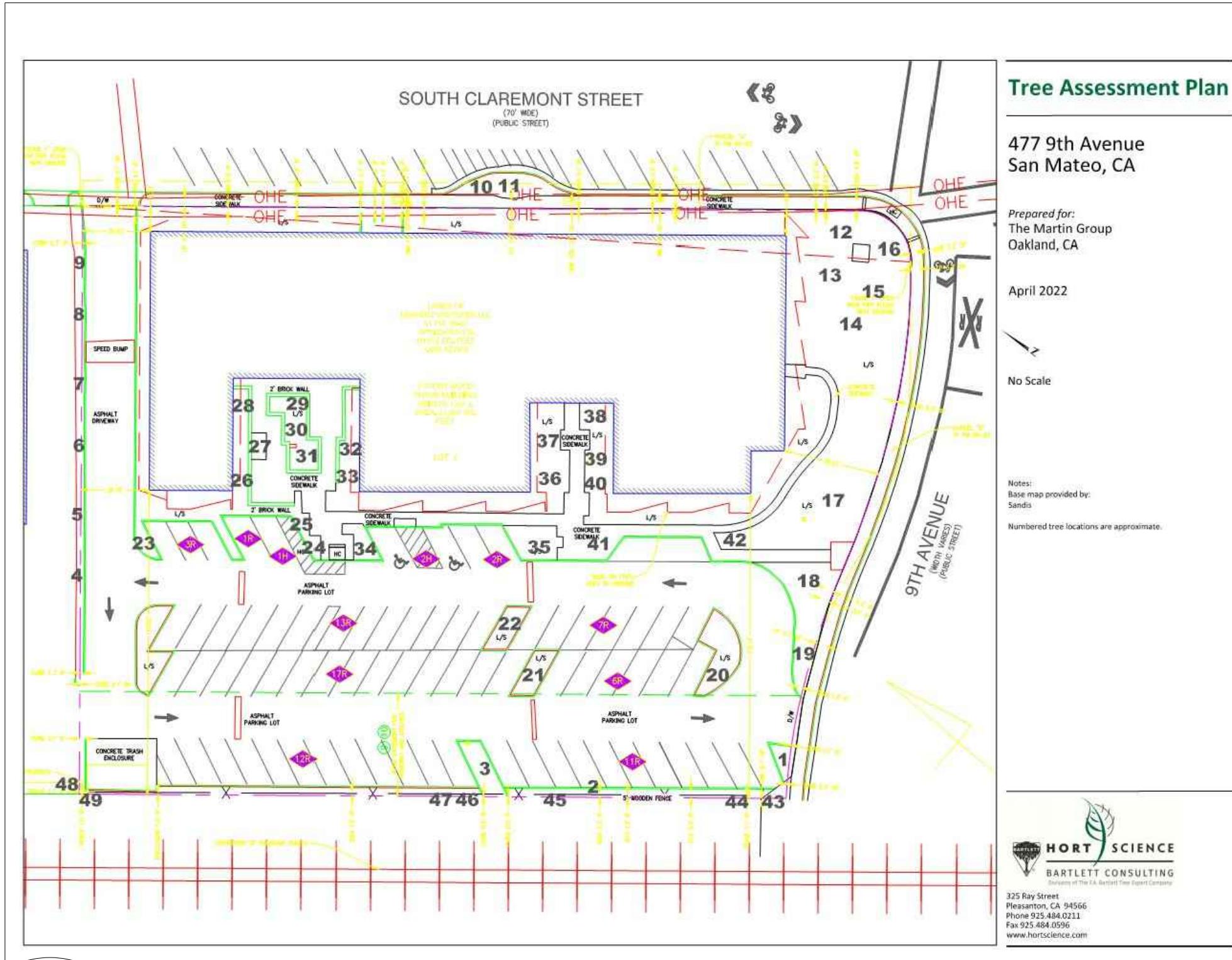
Furthermore, trees change over time. Our inspections represent the condition of the tree at the time of inspection. As trees age, the likelihood of failure of branches or entire trees increases. Annual tree inspections are recommended to identify changes to tree health and structure. In addition, trees should be inspected after storms of unusual severity to evaluate damage and structural changes. Initiating these inspections is the responsibility of the client and/or tree owner.

If you have any questions about my observations or recommendations, please contact me.

#### HortScience | Bartlett Consulting

Darya Barar, Managing Consulting Urban Forester & Arborist  
Registered Consulting Arborist #693  
ISA Certified Arborist No. WE-6757A  
ISA Tree Risk Assessment Qualified  
Qualified Tree and Plant Appraiser

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## Tree Assessment Plan

477 9th Avenue  
San Mateo, CA

Prepared for:  
The Martin Group  
Oakland, CA

April 2022

1

Notes:  
Base map provided by:  
Sandia

Numbered tree locations are approximate.

## Exhibits

## Tree Assessment Plan

## Tree Assessment Form

## Tree Appraisal Form

## LU Evaluation Schedule

## Tree Disposition Form



TREE DISPOSITION NOTES AND LEGENDS

## SAN MATEO, CALIFORNIA

JUNE 23, 2023

477 9TH AVE

# ARCHITECTURE

All drawings and written material appearing herein constitute original, and unpublished work of the architect and may not be duplicated, used or disclosed without the written consent of the architect.

## Tree Assessment

477 9th Avenue  
San Mateo, California  
May 10, 2022



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
1	Ginkgo	3,3,2	No	2	Low	Multiple attachments from base; west leader mostly dead.
2	Chinese elm	19	Yes	3	Moderate	Lean to east; restricted root space; multiple attachments at 8 ft; metal pole embedded in trunk to 3.5 ft.
3	Chinese elm	22	Yes	4	Moderate	Multiple attachments at 8 ft; 7 ft wide planting space; full canopy; minor dieback in upper crown.
4	Silver dollar gum	19	Yes	3	Low	3ft planting space; sparse canopy; slightly one sided to west.
5	Silver dollar gum	22	Yes	3	Low	Codominant at 10 ft; 3 ft planting space; sparse canopy.
6	Silver dollar gum	15	Yes	3	Low	3 ft planting space; sparse crowded canopy; one sided to west.
7	Silver dollar gum	36	Yes	3	Moderate	Codominant at 10 ft; trunk fills 3 ft planting space; broken branch in canopy.
8	Silver dollar gum	28	Yes	3	Moderate	Codominant at 10 ft; trunk fills 3 ft planting space.
9	Silver dollar gum	31	Yes	3	Low	Codominant at 12 ft; pruned for utility lines; trunk fills 3 ft planting space.
10	Purpleleaf plum	3,3,3	Street Tree	4	Moderate	Multiple attachments at 2 ft; full canopy; young; growing under canopy of #11.
11	Valley oak	56	Heritage Street Tree	3	Moderate	Codominant at 10 ft; beehive in southeast stem; cavity with decay on southwest stem; topped for utility lines.
12	Olive	12,11,9	No	4	High	Multiple stems at 1 ft; topped for lines; full dense crown.
13	Olive	10,7,6,5,4	No	3	Moderate	Multiple attachments at 1 ft; 6 in stem has significant decay; suppressed on east; one sided to west.
14	Olive	9,6,5	No	3	Moderate	Multiple attachments at 1 ft; suppressed on east; one sided to west.
15	Olive	9,9,8,5	No	4	Moderate	Multiple attachments at 1 ft; topped; full crown.
16	Blackwood acacia	41	Yes	3	Low	Codominant at 5 ft; slight lean to south; slight separation in crown; roots cut at sidewalk on south.
17	Coast live oak	23	Yes	3	Moderate	Multiple attachments at 3 ft; epicormic sprouting; sparse crown; in fake turf with river rocks over roots and against trunk.



## Tree Assessment

477 9th Avenue  
San Mateo, California  
May 10, 2022



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
18	Coast live oak	26	Yes	3	Low	Multiple attachments at 6 and 8 ft; river rocks over roots and against trunk; slight dieback; sparse crown.
19	Coast live oak	37	Yes	2	Low	Enlarged abnormal buttress roots on north side; heavy lateral limbs over road on south; sparse canopy; dieback; river rocks over roots and against trunk.
20	Chinese elm	15	Yes	2	Low	Multiple attachments at 7 ft; topped; extremely sparse canopy.
21	Chinese elm	17	Yes	3	Moderate	Multiple attachments at 8 ft; topped; slightly chlorotic; 7 ft planter.
22	Chinese elm	16	Yes	3	Moderate	Multiple attachments at 7 ft; topped; slightly sparse chlorotic crown; 7 ft planter.
23	Olive	9.8	No	3	Moderate	Codominant at 2 ft; decay on north stem; full dense crown; river rocks over roots and against trunk.
24	Sweetgum	6	No	3	Low	Girdling root on west; sparse crown; topped; river rocks over roots and against trunk.
25	Sweetgum	9	No	3	Low	Topped; dieback; river rocks over roots and against trunk.
26	Sweetgum	11	No	3	Low	Trunk 1 ft from building; topped; in raised planter.
27	Sweetgum	10	No	2	Low	Roots pruned on 3 sides 1 ft from trunk; topped; river rocks over roots and against trunk.
28	Sweetgum	10	No	3	Low	Trunk 2 ft from building; topped; in raised planter.
29	Sweetgum	12	No	3	Moderate	Topped; full canopy; in raised planter.
30	Sweetgum	8	No	3	Low	Topped; narrow form; in raised planter.
31	Sweetgum	12	No	3	Moderate	Multiple attachments at 4 ft; topped; full crown; in raised planter.
32	Sweetgum	11	No	3	Moderate	Trunk 3.5 ft from building; topped; full crown extends over top of building; in raised planter.
33	Sweetgum	10	No	3	Low	Trunk 3.5 ft from building; topped; slightly sparse crown; in raised planter.



## Tree Assessment

477 9th Avenue  
San Mateo, California  
May 10, 2022



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
34	Olive	11,8,4	No	3	Moderate	Multiple attachments at 1 ft; topped; slight twig dieback; river rocks over roots and against trunk.
35	Olive	6,5,5,4,4	No	2	Low	Multiple attachments at 1 ft; topped; dieback; poor color.
36	European white birch	7	No	2	Low	Topped; twig dieback; sparse crown.
37	European white birch	7	No	2	Low	Topped; twig dieback; girdling root; sparse crown; decay in topping wound.
38	European white birch	7	No	3	Low	Topped; twig dieback; slightly sparse crown.
39	European white birch	5	No	2	Low	Topped; twig dieback; sparse crown.
40	European white birch	8	No	2	Low	Topped; twig dieback; sparse crown.
41	Olive	5,4,4,4,4,3 ,3	No	2	Low	Multiple attachments at 1 ft; topped; sparse crown; poor color; twig dieback; river rocks over roots and against trunk.
42	Olive	6,5,4,4,3	No	2	Low	Multiple attachments at 1 ft; topped; sparse crown; poor color; twig dieback; river rocks over roots and against trunk.
43	Coast live oak	9	No	3	Low	Off site; lean to south; crowded by oleander on north.
44	Coast live oak	10,5,4	Yes	3	Low	Off site; multiple attachments at base; 10 in stem has multiple attachments at 5 ft; suppressed and bowing to south.
45	Coast live oak	10,9,5,3	Yes	3	Low	Off site; tagged on fence; base at fence line; suppressed and bowing south.
46	Coast live oak	11	Yes	3	Low	Off site; tagged on fence; base at fence line; suppressed and bowing south.
47	Coast live oak	8	No	3	Low	Off site; tagged on fence; base at fence line; suppressed and bowing south.
48	Coast live oak	16,15	Yes	4	Moderate	Off site; tagged on fence; base at fence line; multiple attachments at 3 ft; suppressed and bowing south.

## Tree Assessment

477 9th Avenue  
San Mateo, California  
May 10, 2022



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
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49	Coast live oak	12,8	Yes	4	Moderate	Off site; tagged on fence line; codominant at base; suppressed and bowing south.
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TREE DISPOSITION NOTES AND LEGENDS **L-5.11**

## Estimated Value

477 9th Ave.  
San Mateo, CA  
May 2022



Tree No.	Species	Trunk Diameter (in.)	Heritage Tree	Estimated Value
1	Ginkgo	3,3,2	Protected	\$ 250
2	Chinese elm	19	Heritage	\$ 7,250
3	Chinese elm	22	Heritage	\$ 14,500
4	Silver dollar gum	19	Heritage	\$ 7,800
5	Silver dollar gum	22	Heritage	\$ 10,400
6	Silver dollar gum	15	Heritage	\$ 4,950
7	Silver dollar gum	36	Heritage	\$ 27,600
8	Silver dollar gum	28	Heritage	\$ 16,750
9	Silver dollar gum	31	Heritage	\$ 20,500
10	Purpleleaf plum	3,3,3	Street Tree	\$ 400
11	Valley oak	56	Heritage Street Tree	\$ 85,500
12	Olive	12,11,9	Protected	\$ 4,150
13	Olive	10,7,6,5,4	Protected	\$ 1,750
14	Olive	9,6,5	Protected	\$ 1,450
15	Olive	9,9,8,5	Protected	\$ 2,600
16	Blackwood acacia	41	Heritage	\$ 9,150
17	Coast live oak	23	Heritage	\$ 8,650
18	Coast live oak	26	Heritage	\$ 11,050
19	Coast live oak	37	Heritage	\$ 12,650
20	Chinese elm	15	Heritage	\$ 3,050
21	Chinese elm	17	Heritage	\$ 6,300
22	Chinese elm	16	Heritage	\$ 5,600
23	Olive	9,8	Protected	\$ 2,000
24	Sweetgum	6	Protected	\$ 700
25	Sweetgum	9	Protected	\$ 1,400
26	Sweetgum	11	Protected	\$ 2,000
27	Sweetgum	10	Protected	\$ 1,100
28	Sweetgum	10	Protected	\$ 1,700
29	Sweetgum	12	Protected	\$ 2,350
30	Sweetgum	8	Protected	\$ 1,150
31	Sweetgum	12	Protected	\$ 2,350
32	Sweetgum	11	Protected	\$ 2,000
33	Sweetgum	10	Protected	\$ 1,700
34	Olive	11,8,4	Protected	\$ 2,300
35	Olive	6,5,5,4,4	Protected	\$ 600
36	European white birch	7	Protected	\$ 350
37	European white birch	7	Protected	\$ 350
38	European white birch	7	Protected	\$ 450
39	European white birch	5	Protected	\$ 250
40	European white birch	8	Protected	\$ 400



## Estimated Value

477 9th Ave.  
San Mateo, CA  
May 2022



Tree No.	Species	Trunk Diameter (in.)	Heritage Tree	Estimated Value
41	Olive	5,4,4,4,3,3	Protected	\$ 450
42	Olive	6,5,4,4,3	Protected	\$ 600
43	Coast live oak	9	Protected	\$ 1,450
44	Coast live oak	10,5,4	Heritage	\$ 2,200
45	Coast live oak	10,9,5,3	Heritage	\$ 3,100
46	Coast live oak	11	Heritage	\$ 2,100
47	Coast live oak	8	Protected	\$ 1,200
48	Coast live oak	16,15	Heritage	\$ 11,000
49	Coast live oak	12,8	Heritage	\$ 4,850
<b>Total</b>				<b>\$ 312,400</b>

## LU Evaluation Schedule

477 9th Ave.  
San Mateo, CA  
May 2022



Tree No.	Common Name	Species Class	Condition Class	Location Value	".35"	Trunk Diameter	Allowable Building Area	1.25 if Heritage	LU Value	In-Lieu Fee
1	Ginkgo	0.3	0.3	0.4	0.35	4.7	0.7	1	0.3	\$106
2	Chinese elm	0.7	0.5	0.4	0.35	19.0	0.7	1.25	6.7	\$2,081
3	Chinese elm	0.7	0.7	0.5	0.35	22.0	0.7	1.25	13.5	\$4,218
4	Silver dollar gum	0.7	0.5	0.5	0.35	19.0	0.7	1.25	8.3	\$2,602
5	Silver dollar gum	0.7	0.5	0.5	0.35	22.0	0.7	1.25	9.6	\$3,013
6	Silver dollar gum	0.7	0.5	0.5	0.35	15.0	0.7	1.25	6.6	\$2,054
7	Silver dollar gum	0.7	0.5	0.5	0.35	36.0	0.7	1.25	15.8	\$4,930
8	Silver dollar gum	0.7	0.5	0.5	0.35	28.0	0.7	1.25	12.3	\$3,834
9	Silver dollar gum	0.7	0.5	0.5	0.35	31.0	0.7	1.25	13.6	\$4,245
10	Purpleleaf plum	0.3	0.7	0.7	0.35	5.2	1	1	2.2	\$683
11	Valley oak	0.9	0.5	0.7	0.35	56.0	1	1.25	63.0	\$19,719
12	Olive	0.7	0.7	0.6	0.35	18.6	0.7	1	10.9	\$3,423
13	Olive	0.7	0.5	0.6	0.35	15.0	0.7	1	6.3	\$1,976
14	Olive	0.7	0.5	0.6	0.35	11.9	0.7	1	5.0	\$1,567
15	Olive	0.7	0.7	0.6	0.35	15.8	0.7	1	9.3	\$2,916
16	Blackwood acacia	0.3	0.5	0.7	0.35	41.0	0.7	1.25	10.8	\$3,369
17	Coast live oak	0.9	0.5	0.7	0.35	23.0	0.7	1.25	18.1	\$5,669
18	Coast live oak	0.9	0.5	0.7	0.35	26.0	0.7	1.25	20.5	\$6,409
19	Coast live oak	0.9	0.3	0.6	0.35	37.0	0.7	1.25	15.0	\$4,690
20	Chinese elm	0.7	0.3	0.5	0.35	15.0	0.7	1.25	3.9	\$1,232
21	Chinese elm	0.7	0.5	0.5	0.35	17.0	0.7	1.25	7.4	\$2,328
22	Chinese elm	0.7	0.5	0.5	0.35	16.0	0.7	1.25	7.0	\$2,191
23	Olive	0.7	0.5	0.5	0.35	12.0	0.7	1	4.2	\$1,319
24	Sweetgum	0.5	0.5	0.7	0.35	6.0	0.7	1	2.1	\$657
25	Sweetgum	0.5	0.5	0.7	0.35	9.0	0.7	1	3.2	\$986
26	Sweetgum	0.5	0.5	0.7	0.35	11.0	0.7	1	3.9	\$1,205
27	Sweetgum	0.5	0.3	0.5	0.35	10.0	0.7	1	1.5	\$470
28	Sweetgum	0.5	0.5	0.5	0.35	10.0	0.7	1	2.5	\$783
29	Sweetgum	0.5	0.5	0.4	0.35	12.0	0.7	1	2.4	\$751



## LU Evaluation Schedule

477 9th Ave.  
San Mateo, CA  
May 2022



Tree No.	Common Name	Species Class	Condition Class	Location Value	".35"	Trunk Diameter	Allowable Building Area	1.25 if Heritage	LU Value	In-Lieu Fee
30	Sweetgum	0.5	0.5	0.4	0.35	8.0	0.7	1	1.6	\$501
31	Sweetgum	0.5	0.5	0.4	0.35	12.0	0.7	1	2.4	\$751
32	Sweetgum	0.5	0.5	0.7	0.35	11.0	0.7	1	3.9	\$1,205
33	Sweetgum	0.5	0.5	0.7	0.35	10.0	0.7	1	3.5	\$1,096
34	Olive	0.7	0.5	0.6	0.35	14.2	0.7	1	6.0	\$1,864
35	Olive	0.7	0.3	0.5	0.35	10.9	0.7	1	2.3	\$714
36	European white birch	0.3	0.3	0.3	0.35	7.0	0.7	1	0.4	\$118
37	European white birch	0.3	0.3	0.3	0.35	7.0	0.7	1	0.4	\$118
38	European white birch	0.3	0.5	0.3	0.35	7.0	0.7	1	0.6	\$197
39	European white birch	0.3	0.3	0.3	0.35	5.0	0.7	1	0.3	\$85
40	European white birch	0.3	0.3	0.3	0.35	8.0	0.7	1	0.4	\$135
41	Olive	0.7	0.3	0.5	0.35	9.4	0.7	1	2.0	\$620
42	Olive	0.7	0.3	0.5	0.35	10.1	0.7	1	2.1	\$664
43	Coast live oak	0.9	0.5	0.8	0.35	9.0	1	1	9.3	\$2,897
44	Coast live oak	0.9	0.5	0.8	0.35	11.9	1	1.25	15.3	\$4,779
45	Coast live oak	0.9	0.5	0.8	0.35	14.7	1	1.25	18.9	\$5,901
46	Coast live oak	0.9	0.5	0.8	0.35	11.0	1	1.25	14.1	\$4,427
47	Coast live oak	0.9	0.5	0.8	0.35	8.0	1	1	8.2	\$2,576
48	Coast live oak	0.9	0.7	0.8	0.35	21.9	1	1.25	39.5	\$12,356
49	Coast live oak	0.9	0.7	0.8	0.35	14.4	1	1.25	26.0	\$8,125
<b>Total</b>								<b>442.7</b>	<b>\$138,554</b>	



TREE DISPOSITION NOTES AND LEGENDS **L-5.14**

## Tree Disposition

477 9th Avenue  
San Mateo, California  
May 10, 2022



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Disposition	Comments
1	Ginkgo	3,3,2	Protected	Remove	Poor condition, not located on plan
2	Chinese elm	19	Heritage	Potentially Preserve	Planting area being widened.
3	Chinese elm	22	Heritage	Remove	In parking lot
4	Silver dollar gum	19	Heritage	Potentially Preserve	Planting strip being preserved
5	Silver dollar gum	22	Heritage	Potentially Preserve	Planting strip being preserved
6	Silver dollar gum	15	Heritage	Potentially Preserve	Planting strip being preserved
7	Silver dollar gum	36	Heritage	Potentially Preserve	Planting strip being preserved
8	Silver dollar gum	28	Heritage	Potentially Preserve	Planting strip being preserved
9	Silver dollar gum	31	Heritage	Potentially Preserve	Planting strip being preserved
10	Purpleleaf plum	3,3,3	Street Tree	Potentially Preserve	Planting area being preserved
11	Valley oak	56	Heritage Street Tree	Potentially Preserve	Planting area being preserved, sidewalk potentially moving farther from trunk, potentially significant root damage and reduction of approximately 15% of crown.
12	Olive	12,11,9	Protected	Remove	Inside building footprint
13	Olive	10,7,6,5,4	Protected	Remove	Inside building footprint
14	Olive	9,6,5	Protected	Remove	Inside building footprint
15	Olive	9,9,8,5	Protected	Remove	Inside building footprint
16	Blackwood acacia	41	Heritage	Remove	Inside building footprint
17	Coast live oak	23	Heritage	Potentially Preserve	Brick patio approx 9 ft from trunk, sidewalk being moved closer
18	Coast live oak	26	Heritage	Remove	Inside building footprint
19	Coast live oak	37	Heritage	Remove	Inside building footprint
20	Chinese elm	15	Heritage	Remove	Inside building footprint
21	Chinese elm	17	Heritage	Remove	Inside building footprint
22	Chinese elm	16	Heritage	Remove	Inside building footprint
23	Olive	9,8	Protected	Remove	Inside building footprint
24	Sweetgum	6	Protected	Remove	Inside building footprint



## Tree Disposition

477 9th Avenue  
San Mateo, California  
May 10, 2022



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Disposition	Comments
25	Sweetgum	9	Protected	Remove	Inside building footprint
26	Sweetgum	11	Protected	Remove	Inside building footprint
27	Sweetgum	10	Protected	Remove	Inside building footprint
28	Sweetgum	10	Protected	Remove	Inside building footprint
29	Sweetgum	12	Protected	Remove	Inside building footprint
30	Sweetgum	8	Protected	Remove	Inside building footprint
31	Sweetgum	12	Protected	Remove	Inside building footprint
32	Sweetgum	11	Protected	Remove	Inside building footprint
33	Sweetgum	10	Protected	Remove	Inside building footprint
34	Olive	11,8,4	Protected	Remove	Inside building footprint
35	Olive	6,5,5,4,4	Protected	Remove	Inside building footprint
36	European white birch	7	Protected	Remove	Inside building footprint
37	European white birch	7	Protected	Remove	Inside building footprint
38	European white birch	7	Protected	Remove	Inside building footprint
39	European white birch	5	Protected	Remove	Inside building footprint
40	European white birch	8	Protected	Remove	Inside building footprint
41	Olive	5,4,4,4,4,3,3	Protected	Remove	Inside building footprint
42	Olive	6,5,4,4,3	Protected	Remove	Inside building footprint
43	Coast live oak	9	Protected	Potentially Preserve	Planting area widened.
44	Coast live oak	10,5,4	Heritage	Potentially Preserve	Planting area widened.
45	Coast live oak	10,9,5,3	Heritage	Potentially Preserve	Planter size approximately the same.
46	Coast live oak	11	Heritage	Potentially Preserve	Planter size approximately the same.

## Tree Disposition

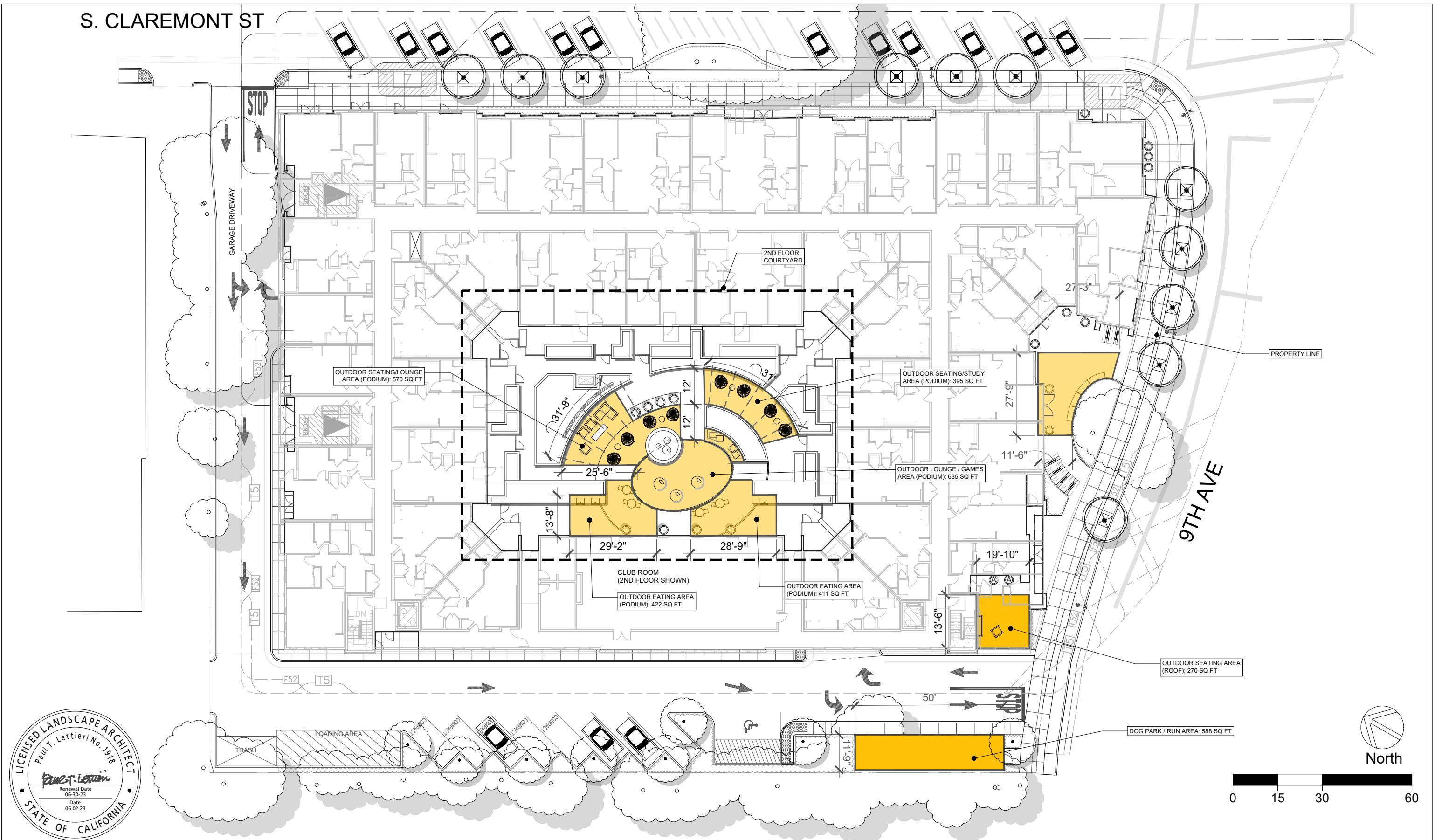
477 9th Avenue  
San Mateo, California  
May 10, 2022



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Disposition	Comments
47	Coast live oak	8	Protected	Potentially Preserve	Planter size approximately the same.
48	Coast live oak	16,15	Heritage	Potentially Preserve	Planting area widened.
49	Coast live oak	12,8	Heritage	Potentially Preserve	Planting area widened.



## TREE DISPOSITION NOTES AND LEGENDS L-5.16



## LANDSCAPE PARK CREDITS AREAS

L-6.1

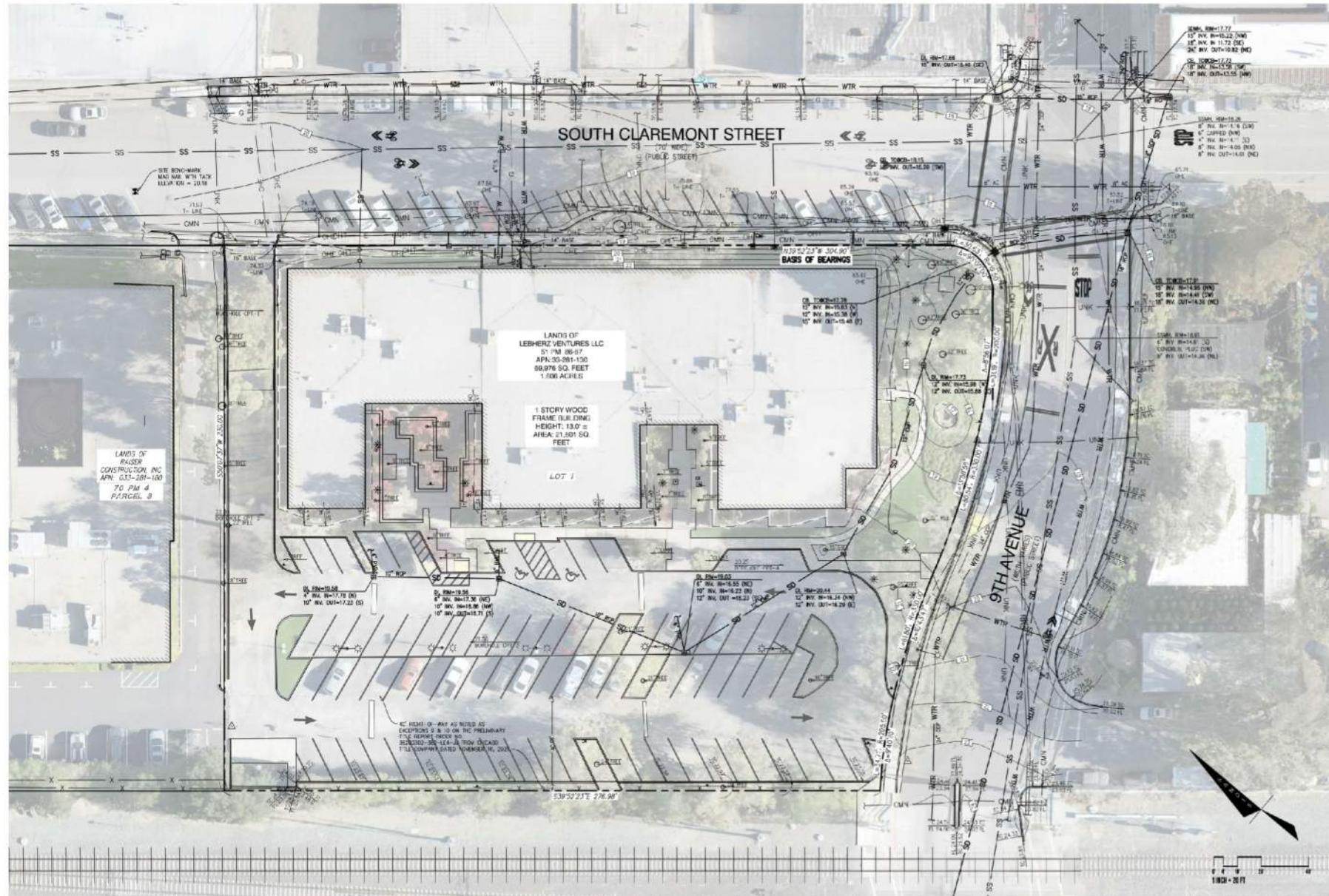


477 9TH AVE

## SAN MATEO, CALIFORNIA

JUNE 23, 2023

All drawings and written material appearing herein constitute original, and unpublished work of the architect and may not be duplicated, used or disclosed without the written consent of the architect.



## SURVEY NOTE

**SURVEY DELIVERABLE SHEET IS SHOWN AT 1"=60' INSTEAD OF THE ISSUED SCALE OF 1"=20'.**

### BOUNDARY & EASEMENTS NOTE

THE BOUNDARY LINES SHOWN HEREON FOR LOT J, AS DELINQUENT UPON THAT CERTAIN MAP ENTITLED "PARCEL MAP NO. 124 TWIN OAKS PLAZA", FILED FOR RECORD IN THE OFFICE OF THE RECORDER OF THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, ON OCTOBER 9TH, 1981, N. VOLUME 51 OF PARCEL MAPS, AT PAGES 86 AND 87 TOGETHER WITH CHICAGO TITLE COMPANY TITLE COMPANY PREVIOUSLY FILED, REFILED R. NO. 56200-302-304-114-11, DATED NOVEMBER 16, 2021.

### SITE BENCHMARK

SITE BENCHMARK IS A VAC NAIL WITH WASHER IN THE PAVEMENT NORTH OF OUR SITE.  
ELEVATION=20.15 FEET NAVD 88

### PHOTOGRAMMETRIC FLIGHT NOTES:

1. AERIAL IMAGERY WAS CAPTURED ON NOVEMBER 29, 2021 UTILIZING A DJ PHANTOM 4 PRO V2.0
2. THE FLIGHT WAS DIRECTED AND OVERSIGHT BY FAA CERTIFIED REMOTE PILOT NO. 44932738
3. THIS MAP MEETS OR EXCEEDS THE ASPRS ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA.

### HORIZONTAL AND VERTICAL CONTROL NOTE

HORIZONTAL & VERTICAL CONTROL WAS BASED ON A GPS SURVEY USING CASE RTK METHODS CONNECTED TO THE LEICA SMARTNET REAL TIME NETWORK TIED INTO CALIFORNIA STATE PLANE COORDINATES NAD83, EPOCH 2022.750.

### REVERSION TO ACREAGE NOTE:

THE EXISTING SITE WAS PREVIOUSLY SUBDIVIDED FOR CONDOMINIUM PURPOSES. THERE WERE 13 CONDOMINIUMS CREATED (O.R. 82028173) AND TERMINATED IN 2022 (O.R. 2022-020871). THIS PROJECT WILL SUBMIT A REVERSION TO ACREAGE MAP TO REMOVE THE CONDOMINIUMS FROM THE PARCEL.

### SURVEY NOTES

1. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DEGREES THEREOF
2. DATES OF FIELD SURVEY: 04/05/2022

### SURVEYOR'S STATEMENT

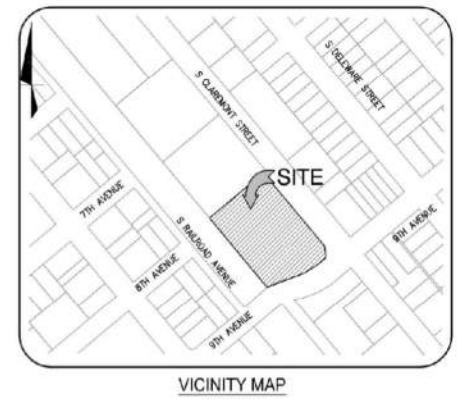
THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE REQUEST OF THE MARTIN GROUP IN MARCH, 2022.

SANOS

DATE: 3/27/2023

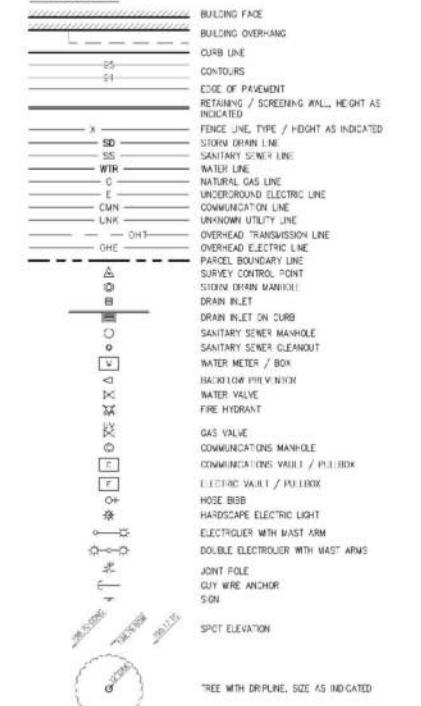
BY:   
KELLY S. JOHNSON, PLS  
CALIFORNIA REG. NO. 9726  
EXPIRES SEPTEMBER 30, 2024  
MAPSANDBODGES.NET

\*\* CERTIFY IS DEFINED AND LIMITED BY SECTION 8770.6 OF THE BUSINESS AND PROFESSIONS CODE OF CALIFORNIA



VICINITY MAP  
NOT TO SCALE

### LEGEND



### ABBREVIATIONS

AD	AREA DRAIN
BFP	BACK FLOOR PLATE
BLC	BUILDING CORNER
BLD	BUILDING LINE
BLW	BLOCK OF WALK
CLF	CHAIN LINK FENCE
CLD	CLERESTORY
CNP	CONTINUOUS
CNP-AH	CONTINUOUS CONTROL POINT
CW	COMMUNICATIONS VEHICLE
CW-PC	COMMUNICATIONS PULLBOX
CO	COAT
DRW	DRIVEWAY
DI	DRAIN INLET
EP	EDGE OF PAYMENT
EPF	EDGE OF PAYMENT LINE
FDC	FIREFIGHTING DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FL	FLOW LINE
FPI	FLYING POINT
FNC	FENCE
G	GROUNDS
GRATE	DRAIN INLET GRATE
GW	GAS WELL
CUT WIRE ANCHOR	CUT WIRE ANCHOR
HT	HOSTILE TERRAIN
IP	LINE OF CUTTER
JO	BUILDING OVERHANG
O-E	OVERHEAD ELECTRIC
SCM	STRUCTURAL CABLE
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
T-1 LINE	OVERHEAD TRANSMISSION LINE
TC	TOP OF CURB
TCBG	TOP OF CURB AT CATCH BASIN
TFV	WOOD FENCE
TV	WOOD METER
WPS	WATER VALVE
WV	WATER VALVE

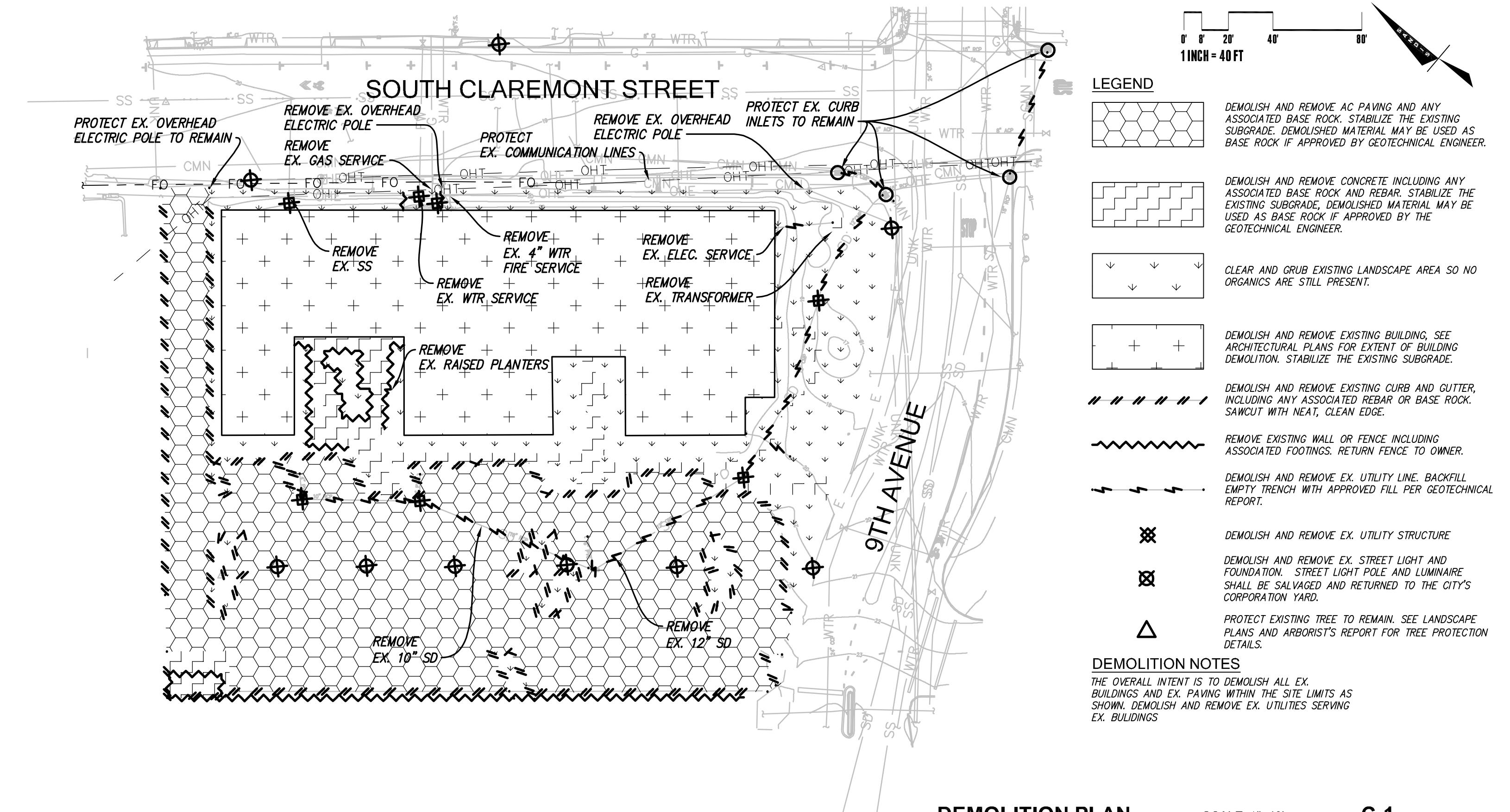
## BOUNDARY & TOPOGRAPHIC SURVEY

C-0

477 9TH AVE

SAN MATEO, CALIFORNIA

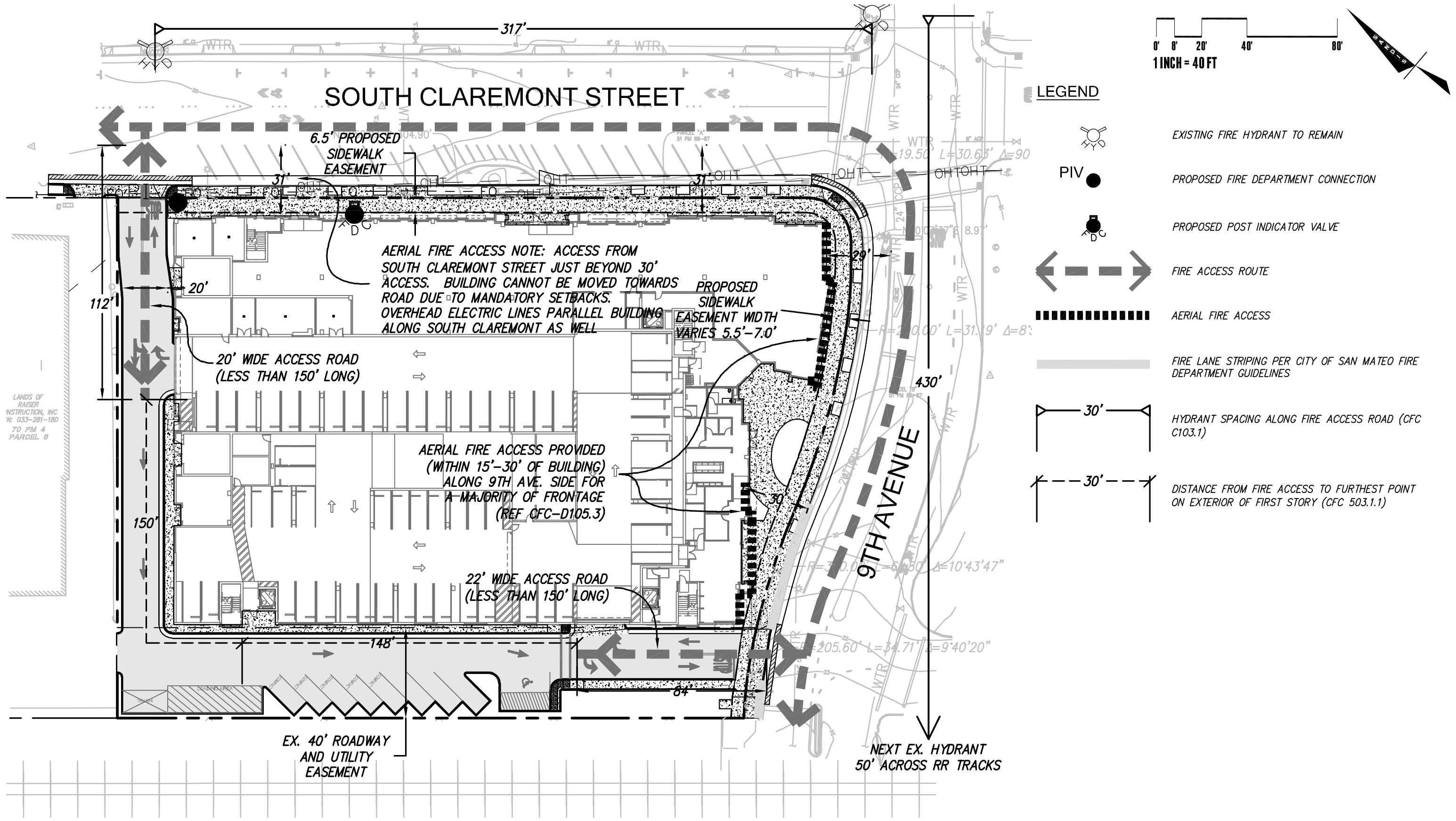
JUNE 23, 2023



## DEMOLITION PLAN

SCALE: 1"=40'

C-1



## **FIRE ACCESS PLAN**

SCALE: 1"=40'

C-2

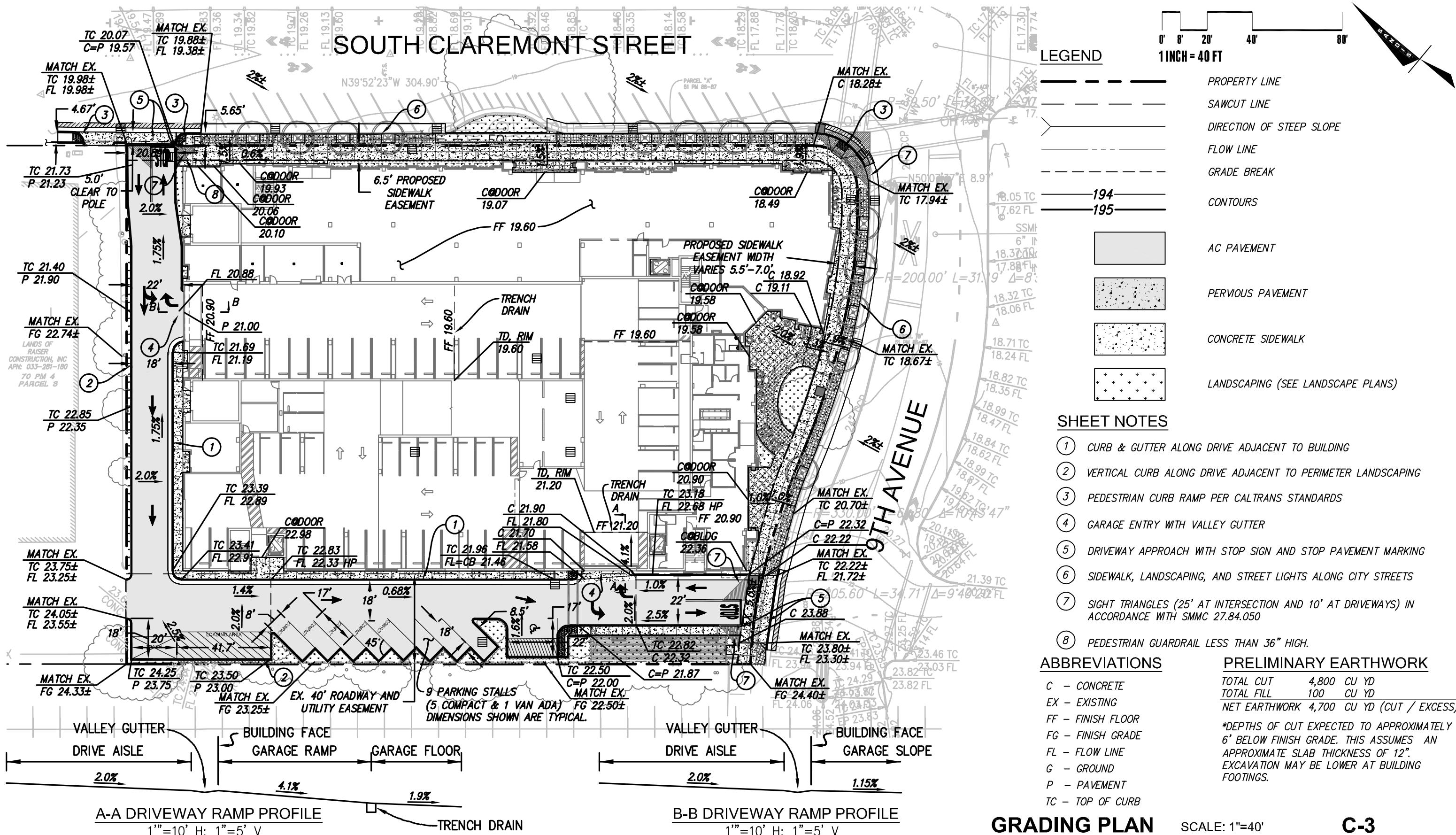
BDE  
ARCHITECTURE

477 9TH AVE

SAN MATEO, CALIFORNIA

JUNE 23, 2023

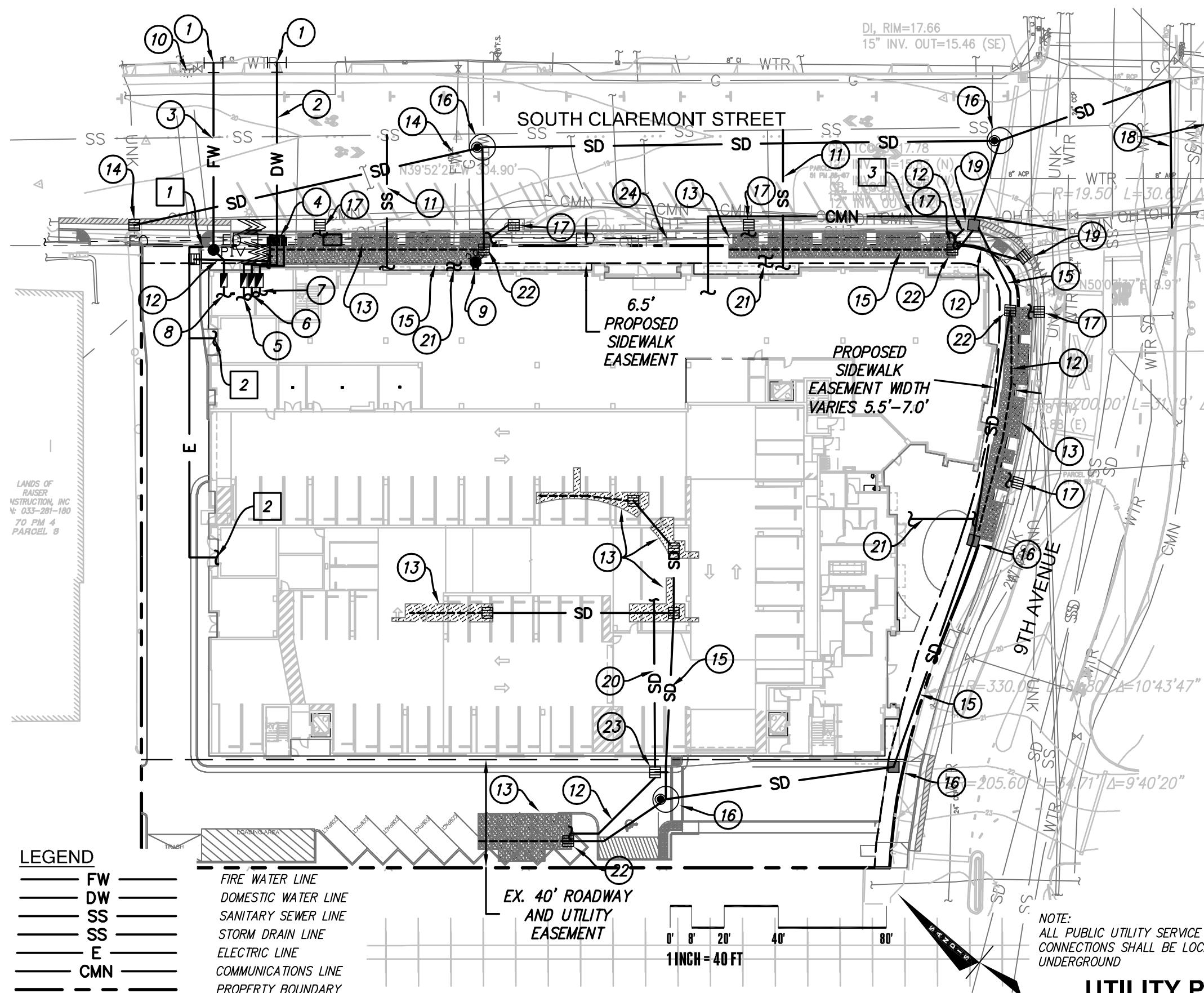
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## GRADING PLAN

SCALE: 1"=40'

C-3



## WET UTILITY NOTES

- ① CONNECT TO EXISTING WATER SYSTEM. ASSUMED 6-INCH HOT TAP AND VALVE
- ② 4" DOMESTIC WATER PIPING
- ③ 6" FIRE WATER PIPING
- ④ BRANCHES FOR DOMESTIC, RETAIL, AND IRRIGATION WATER SERVICES FOR THE PROJECT. CONSTRUCT VALVES ON EACH BRANCH.
- ⑤ DOMESTIC WATER SERVICE AND BUILDING POINT OF CONNECTION. 4" LATERAL AND METER. BACKFLOW PREVENTER INSIDE WATER UTILITY ROOM.
- ⑥ RETAIL WATER SERVICE AND BUILDING POINT OF CONNECTION. 2" LATERAL AND METER. BACKFLOW PREVENTER INSIDE WATER UTILITY ROOM.
- ⑦ IRRIGATION WATER SERVICE AND BUILDING POINT OF CONNECTION. 2" LATERAL AND METER. BACKFLOW PREVENTER INSIDE WATER UTILITY ROOM.
- ⑧ FIRE WATER SERVICE AND BUILDING POINT OF CONNECTION. 6" LATERAL, CHECK VALVE, AND PIV. BACKFLOW PREVENTER INSIDE FIRE UTILITY ROOM.
- ⑨ FIRE DEPARTMENT CONNECTION FOR BUILDING SPRINKLER SERVICE.
- ⑩ EXISTING FIRE HYDRANT
- ⑪ SEWER CONNECTION TO MAIN PER CITY STANDARD DETAIL 3-1-101. CONSTRUCT CLEANOUT AT PROPERTY LINE AND BUILDING FACE.
- ⑫ STORM DRAIN PIPING TO CONVEY RUNOFF TO BMP
- ⑬ STORMWATER BMP
- ⑭ PROPOSED CATCH BASIN AND PIPING TO DIVERT AND BYPASS OFF-SITE RUN-OFF OUTSIDE OF FRONTAGE THROUGH STORM DRAIN PIPES TO CITY OUTFALL.
- ⑮ STORM DRAIN PIPING TO CONVEY DISCHARGE FROM BMPs TO OFFSITE CONNECTION
- ⑯ PROPOSED STORM DRAIN JUNCTION BOX OR MANHOLE
- ⑰ PROPOSED STORM DRAIN INLET CONNECTION TO SILVA CELL. 6" INV. PIPE OUT TYPICALLY 14" BELOW RIM ELEVATION.
- ⑱ ABANDON EXISTING 18" SD PIPE. INSTALL NEW 18" SD PIPE AND CONNECT TO EXISTING UPSTREAM CURB INLET AND DOWNSTREAM MANHOLE.
- ⑲ EX. CURB INLET TO REMAIN. PLUG EXISTING OUTLET PIPES AND ABANDON IN PLACE. TIE IN NEW DISTRIBUTION PIPES TO SILVA CELL BMPs.
- ⑳ BUILDING PLUMBING PIPING TO CONVEY RUNOFF FROM PODIUM SURFACE (UNTREATED) TO PROPOSED BMP.
- ㉑ ROOF DRAINAGE TO BMP VIA DOWNSPOUT OR RAINWATER LEADER. DRAINAGE CROSSING SIDEWALKS WILL BE BELOW GRADE IN PIPES.
- ㉒ OVERFLOW RISER FOR SILVA CELLS. RISER STRUCTURE IS BELOW GRADE AND SHOWN FOR REFERENCE.
- ㉓ PROPOSED STORM DRAIN INLET / CATCH BASIN.
- ㉔ EXISTING FIBER OPTIC LINE TO BE ADJUSTED TO INSTALL NEW SILVA CELLS.

## DRY UTILITY NOTES

- 1 TRANSITION FROM EXISTING OVERHEAD JOINT POWER OLE TO UNDERGROUND ELECTRIC MAIN.
- 2 BUILDING ELECTRICAL SERVICE AND TRANSFORMER INSIDE TRANSFORMER UTILITY ROOM.
- 3 RELOCATE EXISTING COMMUNICATIONS DUCT BANK UNDER CONCRETE.

## UTILITY PLAN

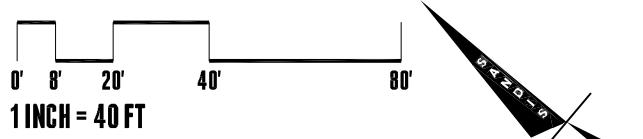
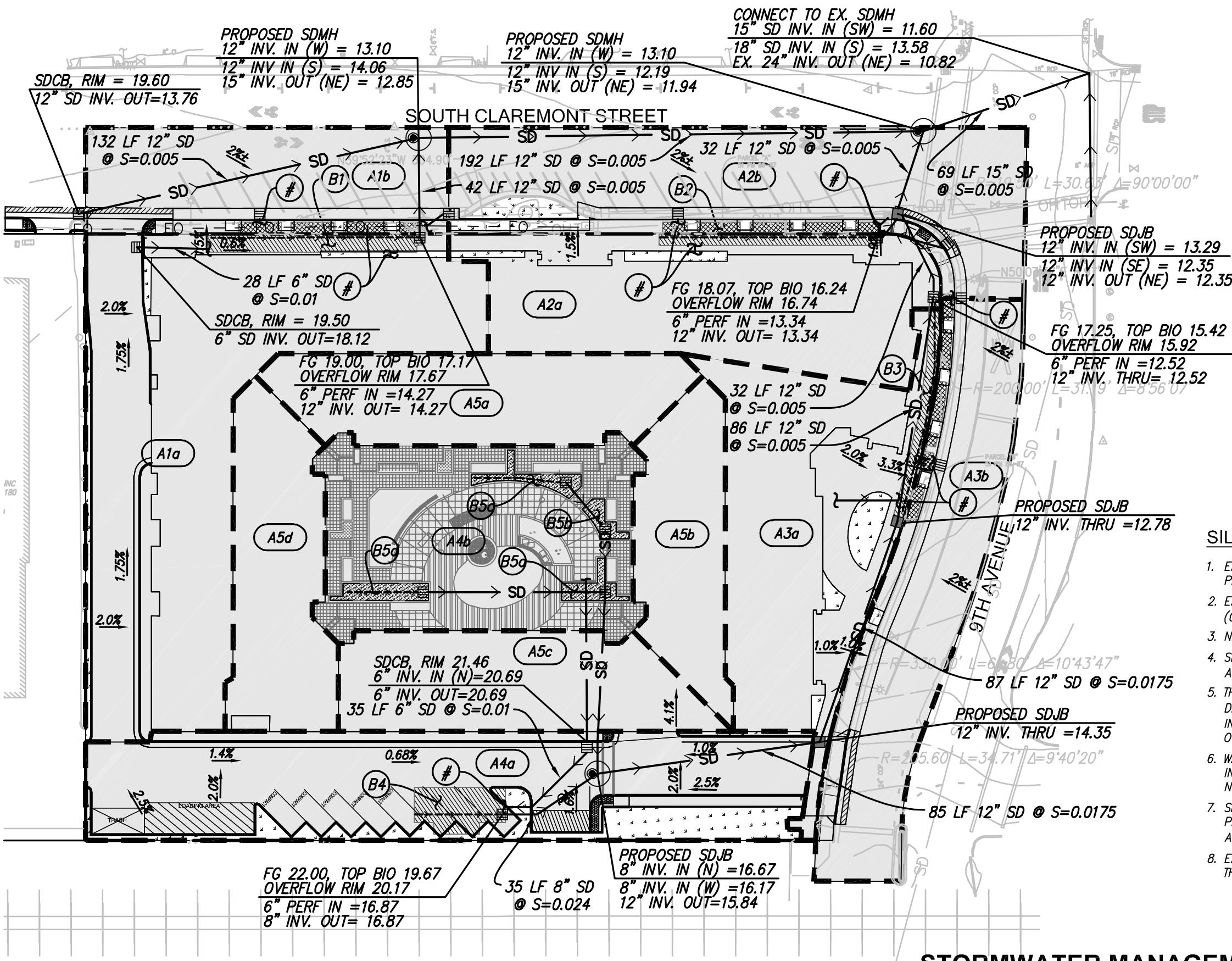
SCALE: 1"=40'

C-4

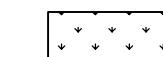
477 9TH AVE

SAN MATEO, CALIFORNIA

JUNE 23, 2023



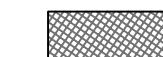
## STORMWATER MANAGEMENT PLAN LEGEND



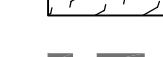
*PROPOSED PREVIOUS AREA, SELF TREATING*



*PROPOSED IMPERVIOUS AREA*



**P/C RETENTION PLANTER**



DRAINAGE AREA ID, SEE C.3 TAB  
FOLLOWING SHEET



BMP ID. SEE C.3 TABLE ON FOLLOWING SHEET



6" SD PIPE DISCHARGE INTO SILVA CELL 2" ABOVE THE FINISHED GRADE OF THE BIORETENTION SOIL INTO DISTRIBUTION PIPE (NOT SHOWN)

## SILVA CELL NOTES:

1. EACH SILVA CELL IS ASSUMED TO PROVIDE 9.5 SQUARE FEET OF TREATMENT AREA PER THE DEEPROOT SILVA CELL SIZING CALCULATOR.
2. EACH SILVA CELL IS 2.25' X 4.25' WHICH INCORPORATES 0.25' BETWEEN EACH CELL (0.08'-0.50' REQUIRED).
3. NEW TREE ROOT BALL INCLUDED IN TREATMENT AREA.
4. SILVA CELL AREAS ARE DESIGNED TO TREAT THE 0.2 INCHES/HOUR STORM EVENT AND SIZED USING THE FLOW BASED SIZING CRITERIA "4 PERCENT METHOD".
5. THE PERFORATED PIPING OF THE DISTRIBUTION SYSTEM IN THE SILVA CELLS IS DESIGNED FOR THE 0.2 IN/HR STORM EVENT. WATER IN EXCESS OF THE 0.2 INCHES/HOUR STORM WILL POND IN THE SILVA CELL AND OUTFALL INTO AN OVERFLOW STRUCTURE.
6. WATER IN EXCESS OF THE C.3 STORM EVENT OF 0.2 IN/HR OVERFLOWS THE WEIR INSTALLED IN THE CATCH BASINS AND DRAINS DIRECTLY TO THE STORM DRAIN NETWORK.
7. SILVA CELLS TO BE CONSIDERED "TREE WELL FILTER" FOR PURPOSES OF SELECTED PLANT TYPES UNDER SAN MATEO COUNTY C.3 REGULATED PROJECTS GUIDE APPENDIX A "PLANT LIST".
8. EACH INLET TO USE "FULL CAPTURE" TRASH CAPTURE DEVICES CONSISTENT WITH THE STATE WATER RESOURCES CONTROL BOARD'S REGULATIONS.

STORMWATER MANAGEMENT PLAN SCALE: 1"=40'

C-5

### C.3 SIZING CALCULATIONS

AREA ID	DESCRIPTION	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	TOTAL AREA (SF)	EFFECTIVE IMPERVIOUS AREA* (SF)	REQUIRED BMP AREA** (3.0% IMPERVIOUS AREA) (SF)	BMP ID	BMP AREA PROVIDED (SF)	TYPE OF TREATMENT
A1a	ON-SITE NW DRIVEWAY / ROOF / WALKWAY	14,502	475	14,977	14,550	436	B1	510	SILVA CELL
A1b	OFF-SITE NW S. CLAREMONT ST / WALKWAY	5,452	99	5,551	5,462	164	B1	260	SILVA CELL
A1 Subtotal	A1a + A1b	19,954	574	20,528	20,011	600	B1	770	SILVA CELL
A2a	ON-SITE NE ROOF / WALKWAY	8,098	227	8,325	8,121	244	B2	340	SILVA CELL
A2b	OFF-SITE NE S. CLAREMONT ST / WALKWAY	9,080	599	9,679	9,140	274	B2	290	SILVA CELL
A2 Subtotal	A2a + A2b	17,178	826	18,004	17,261	518	B2	630	SILVA CELL
A3a	ON-SITE S ROOF / WALKWAY	8,506	420	8,926	8,548	256	B3	350	SILVA CELL
A3b	OFF-SITE S 9TH AVE / WALKWAY	7,399	120	7,519	7,411	222	B3	270	SILVA CELL
A3 Subtotal	A3a + A3b	15,905	540	16,445	15,959	479	B3	620	SILVA CELL
A4a	ON-SITE SW DRIVEWAY / WALKWAY	9,367	1,818	11,185	9,549	286	B4	390	SILVA CELL
A4b	ON-SITE BULIDING COURTYARD**	5,858	1,953	7,811	6,054	182	B4	0	SILVA CELL
A4 Subtotal	A4a + A4b	15,225	3,771	18,996	15,602	468	B4	490	SILVA CELL
A5a	ON-SITE INNER ROOF	4,929	172	5,101	4,946	148	B5a	172	BIO-RETENTION PLANTERS
A5b	ON-SITE INNER ROOF	3,571	115	3,686	3,583	107	B5b	115	BIO-RETENTION PLANTERS
A5c	ON-SITE INNER ROOF	5,071	202	5,273	5,091	153	B5c	202	BIO-RETENTION PLANTERS
A5d	ON-SITE INNER ROOF	4,475	218	4,693	4,497	135	B5d	218	BIO-RETENTION PLANTERS
TOTAL		86,308	5,883	92,726	86,950	2,609		3,217	

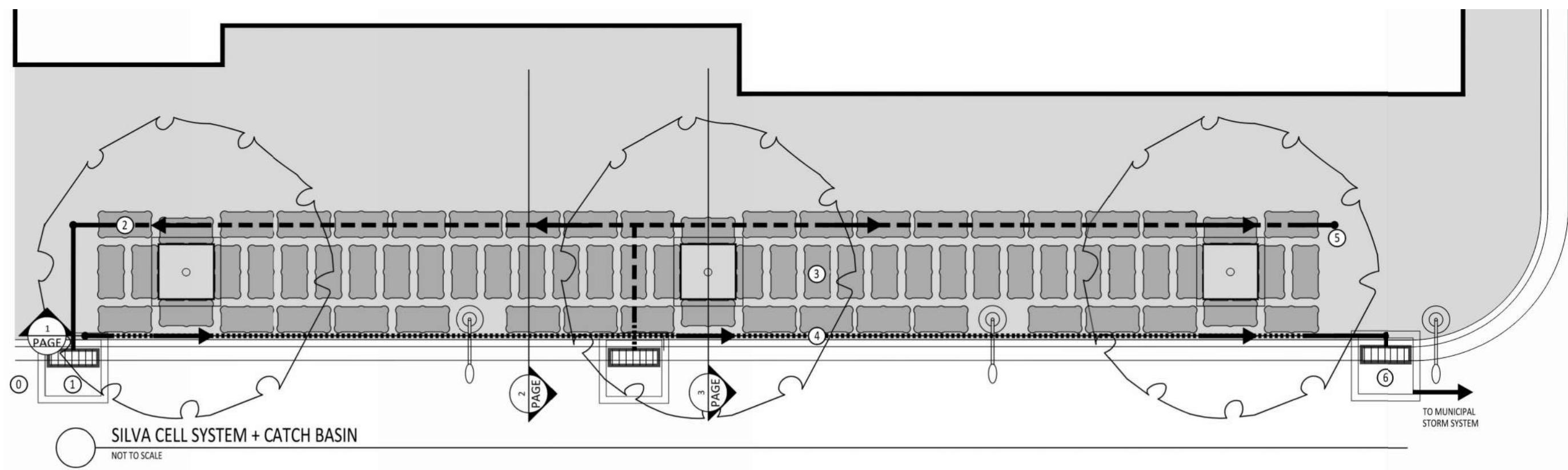
NOTES:  
\* EFFECTIVE IMPERVIOUS SURFACES IS THE SUM OF THE IMPERVIOUS AREA AND THE PVIOUS AREA MULTIPLIED BY 0.1.  
\*\* INTERIOR COURTYARD ASSUMED TO BE 75% IMPERVIOUS.  
\*\*\* AREA REQUIRED USING THE COMBINATION FLOW AND VOLUME METHOD.

### STORMWATER MANAGEMENT NOTES:

- FLOOD ZONE DESIGNATION: FOR THIS PROJECT AREA: MAP PANEL 06081C0154G EFFECTIVE APRIL 5, 2019. THE PROJECT AREA IS LOCATED IN ZONE X (AREA OF MINIMAL FLOOD HAZARD).
- PERMIT APPLICABILITY: THE PROPOSED PROJECT WILL INCLUDE MORE THAN 10,000 SQUARE FEET OF IMPERVIOUS SURFACE ADDITION OR REPLACEMENT AND THEREBY WILL HAVE TO COMPLY WITH PROVISION C.3 – NEW DEVELOPMENT AND REDEVELOPMENT OF THE MUNICIPAL REGIONAL STORMWATER PERMIT (MRP) (ORDER NO. R2-2015-0049). THIS PLAN PRESENTS METHODS AND CALCULATIONS FOR COMPLYING WITH THE REQUIREMENTS OF PROVISION C.3 OF THE MRP IN ACCORDANCE WITH THE SAN MATEO COUNTY PROGRAM AND THE CITY OF SAN MATEO REQUIREMENTS.
- THE GENERAL STORMWATER QUALITY APPROACH IS AS FOLLOWS:  
DEVELOPMENT PARCEL (ON-SITE): THE DEVELOPMENT PARCEL WILL MITIGATE OR TREAT ITS OWN RUNOFF IN COMPLIANCE WITH C.3.c OF THE MRP BY INSTALLING BEST MANAGEMENT PRACTICES USING SITE DESIGN MEASURES (INCLUDING INTERCEPTOR TREES), SOURCE CONTROL MEASURES, AND LID STRATEGIES (BIOTREATMENT, INFILTRATION, RAINWATER HARVESTING).
- EXISTING ROADWAY FRONTAGES (OFF-SITE): IN ACCORDANCE WITH SAN MATEO GREEN INFRASTRUCTURE REQUIREMENTS THE DEVELOPMENT IS REQUIRED TO CONSTRUCTION GREEN IMPROVEMENT MEASURES ALONG THE PROPERTY BOUNDARY FRONTAGES TO TREAT OFF-SITE RUNOFF FROM THE ADJACENT ROADWAY AND PUBLIC RIGHT OF WAY IMPERVIOUS SURFACES.
- 50% RULE COMPLIANCE – WHERE A REDEVELOPMENT PROJECT RESULTS IN AN ALTERATION OF MORE THAN 50% OF THE IMPERVIOUS SURFACE OF A PREVIOUSLY EXISTING DEVELOPMENT, THE ENTIRE PROJECT, CONSISTING OF ALL EXISTING, NEW, AND/OR REPLACED IMPERVIOUS SURFACES, MUST BE INCLUDED IN THE TREATMENT SYSTEM DESIGN. THE DEVELOPMENT PROJECT IS ALTERING NEARLY ALL OF THE EXISTING IMPERVIOUS SURFACE OF THE EXISTING DEVELOPMENT, THEREFORE, THE 50% RULE IS TRIGGERED BY THIS DEVELOPMENT.
- HYDROMODIFICATION MANAGEMENT (PROVISION C.3.g): THE PROJECT IS EXEMPT FROM HYDROMODIFICATION REQUIREMENTS PER THE SAN MATEO COUNTY C.3 TECHNICAL GUIDANCE DOCUMENT. THE PROJECT IS EXEMPT DUE TO THE WATER SHED DRAINING INTO A HARDENED CHANNEL AS INDICATED ON THE SAN MATEO HM CONTROL AREA MAP REVISED MARCH 27, 2009.
- MANAGING PEAK FLOWS: THE EXISTING SITE DRAINS TO THE SAN MATEO STORM DRAIN SYSTEM VIA PIPES BELOW GRADE. THE PROJECT DESIGN WILL INCLUDE AN ON-SITE STORM DRAIN SYSTEM SIZED FOR THE 10 YEAR PEAK STORM DRAIN EVENT. ANY STORM EVENTS THAT EXCEED THIS DESIGN EVENT WILL DISCHARGE OFF-SITE VIA OVERLAND FLOW TO PUBLIC STREETS. THE PROJECT WILL MAINTAIN PRE-DEVELOPMENT FLOW RATES TO THE SAN MATEO STORM DRAIN SYSTEM FOR THE 10-YEAR PEAK DISCHARGE EVENT.
- OVERLAND FLOW REQUIREMENT: STREET CROSS SECTIONS SHALL BE DESIGNED TO ACCOMODATE THE 100 YEAR STORM EVENT VIA OVERLAND FLOW.
- STORMWATER MANAGEMENT DURING CONSTRUCTION – ALL PROJECTS SHALL COMPLY WITH THE CONSTRUCTION GENERAL PERMIT. COVERAGE AND REPORTING REQUIREMENTS SHALL BE MAINTAINED FOR EACH PROJECT ON AN INDEPENDENT BASIS. THE FILING OF NOTICES OF INTENT AND NOTICES OF TERMINATION WILL CORRESPOND TO THE PHASING OF THE PROJECT.
- OPERATION AND MAINTENANCE RESPONSIBILITY: THIS PROJECT WILL PREPARE AN OPERATION AND MAINTENANCE MANUAL FOR THE BMPs IT WILL BE CONSTRUCTING. THE O&M MANUAL WILL BE SUBMITTED FOR APPROVAL TO THE CITY DURING THE PERMITTING PROCESS. FOLLOWING CONSTRUCTION, A MAINTENANCE AGREEMENT WITH THE CITY WILL BE RECORDED WITH THE COUNTY.

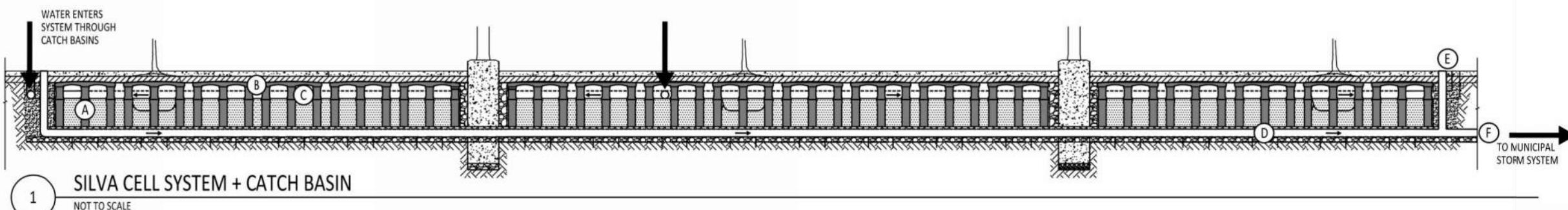
### STORMWATER MANAGEMENT PLAN NOTES

C-6



KEY PLAN

- 0 PRETREATMENT, AS REQUIRED, BY OTHERS. OUTLET OF PRETREATMENT BECOMES THE INLET TO THE SILVA CELL SYSTEM
- 1 STORMWATER ENTERS THE SILVA CELL SYSTEM THROUGH A CATCH BASIN
- 2 WATER IS DISTRIBUTED THROUGH THE SILVA CELL SYSTEM THROUGH PERFORATED PIPES
- 3 WATER THEN MOVES THROUGH THE PLANTING SOIL HOUSED WITHIN THE SILVA CELL SYSTEM
- 4 EXCESS WATER IS COLLECTED IN A PERFORATED DRAIN PIPE AND IS DIRECTED TOWARD A DOWNSTREAM CATCH BASIN
- 5 CLEANOUT
- 6 WATER COLLECTED IN THE COLLECTION PIPE IS DIRECTED TO THE MUNICIPAL STORM SYSTEM



KEY PLAN

- A SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- B OPTIONAL PONDING SPACE
- C DISTRIBUTION PIPE
- D COLLECTION PIPE
- E CLEANOUT
- F CONNECTION TO MUNICIPAL STORM SYSTEM
- DIRECTION OF WATER FLOW →

**STORMWATER MANAGEMENT PLAN DETAILS**

C-6.1

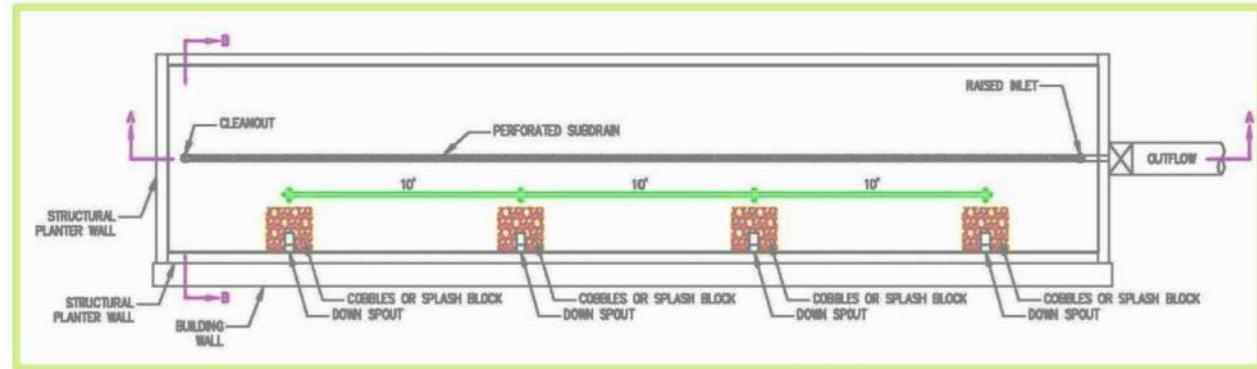


Figure 6-15: Plan view of long, linear planter, with inlets to the planter distributed along its length at 10' intervals.

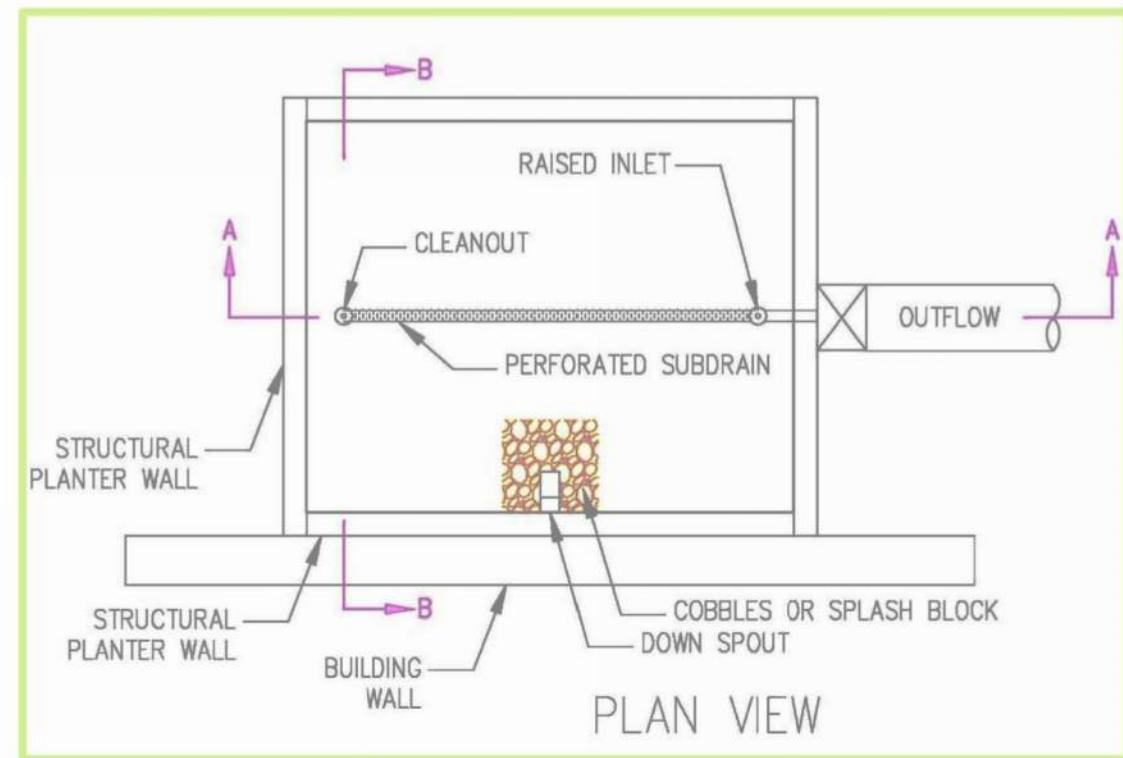


Figure 6-16: Plan view of planter designed to disperse flows adequately with only one inlet to planter

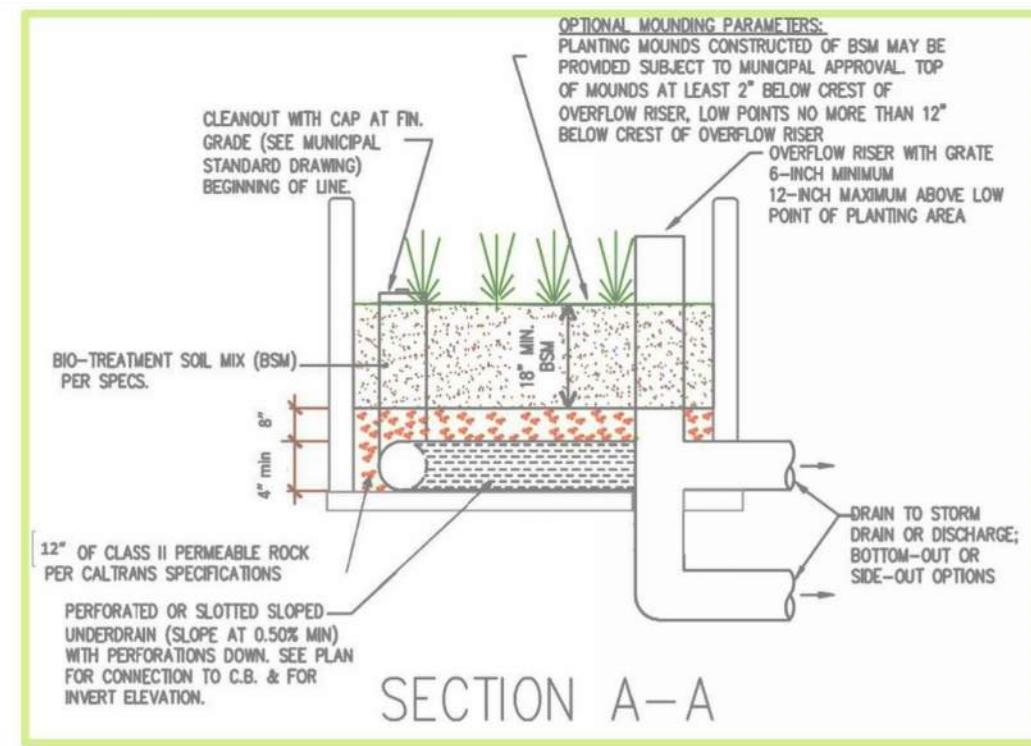


Figure 6-17: Cross section A-A of flow-through planter, shows side view of underdrain (Not to Scale)

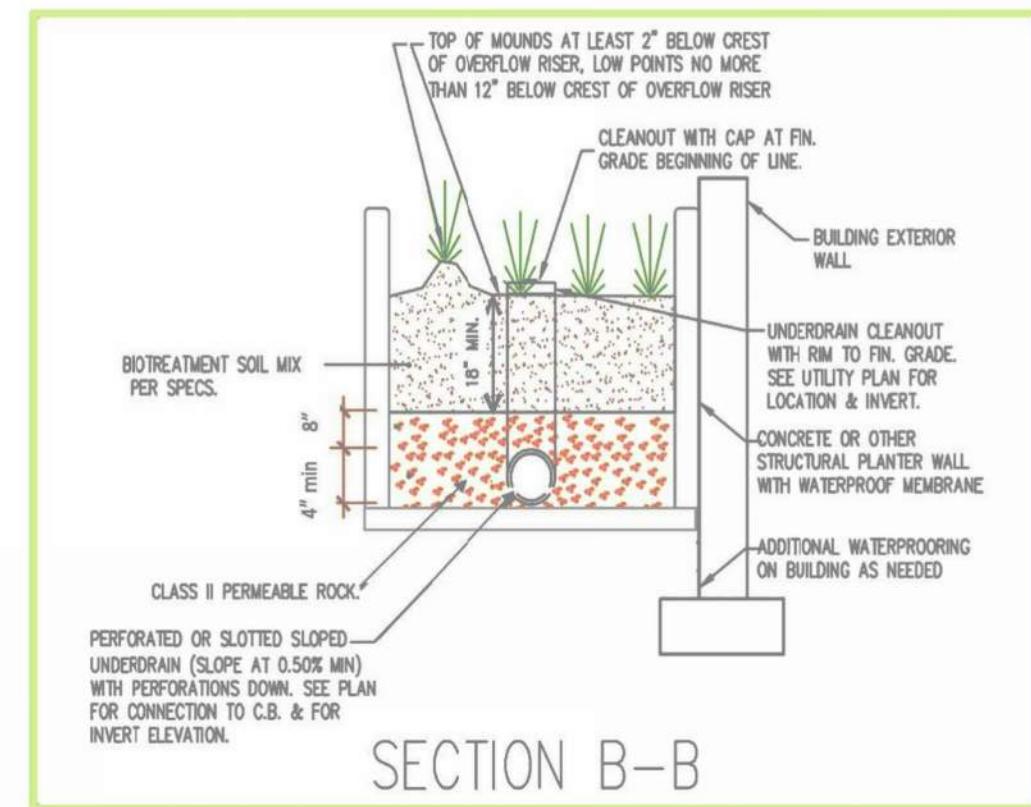
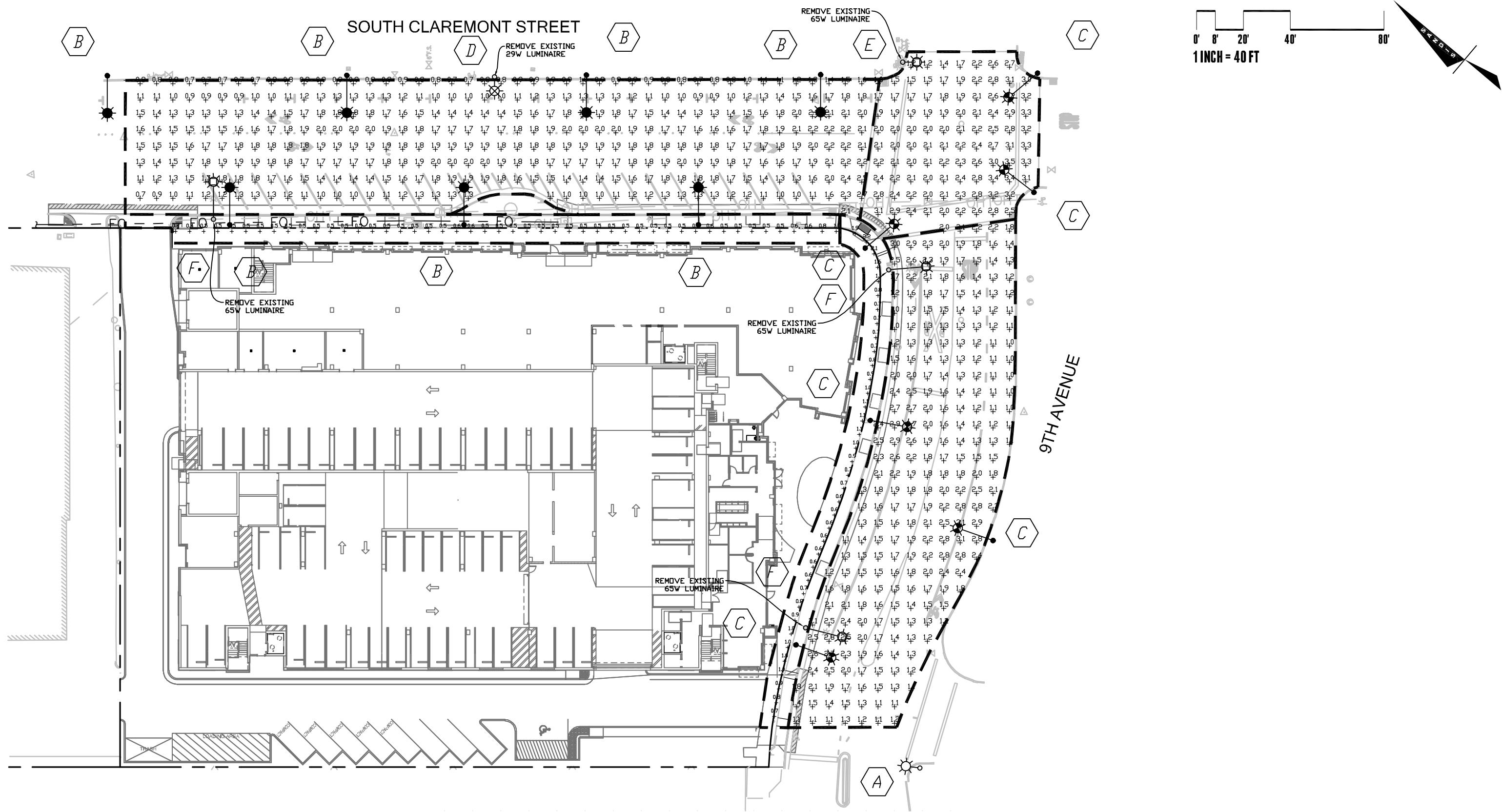


Figure 6-18: Cross section B-B of flow-through planter, shows cross section of underdrain

## STORMWATER MANAGEMENT PLAN DETAILS

C-6.2



## OFFSITE PHOTOMETRIC PLAN

SCALE: 1"=40'

**C-7.0**

477 9TH AVE

SAN MATEO, CALIFORNIA

JUNE 23, 2023

**BDE**  
ARCHITECTURE

## ARCHITECTURE

All drawings and written material appearing herein constitute original, and unpublished work of the architect and may not be duplicated, used or disclosed without the written consent of the architect.

## LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	POLE HEIGHT	MAST ARM	LUMINAIRE TYPE	VOLTAGE	LIGHT LOSS FACTOR*	QUANTITY
A	● ☼	EXISTING 29W COBRA HEAD LUMINAIRE	30'	3	LED	120-277	0.490	1
B	● — ☼	PROPOSED 2020-CH-48W COBRA HEAD LUMINAIRE	30'	8	LED	120-277	0.469	7
C	● — ☼	PROPOSED 2020-CH-95W COBRA HEAD LUMINAIRE	30'	8	LED	120-277	0.803	6
D	● ☼	EXISTING 29W COBRA HEAD LUMINAIRE TO BE REMOVED	30'	3	LED	120-277	NOT MODELED	1
E	○ ☼	EXISTING 65W COBRA HEAD LUMINAIRE TO BE REMOVED	30'	3	LED	120-277	NOT MODELED	1
F	○ — ☼	EXISTING 65W COBRA HEAD LUMINAIRE TO BE REMOVED	30'	8	LED	120-277	NOT MODELED	3

\*PER CITY OF SAN MATEO GUIDELINES, TOTAL LIGHT LOSS FACTOR (LLF) HAS BEEN CALCULATED USING A BASE LLF OF 0.803 (TO ACCOUNT FOR NORMAL DECREASE IN PERFORMANCE OVER TIME) ALONG WITH A MANUALLY APPLIED ADDITIONAL LLF (TO ACCOUNT FOR VARIABLE WATTAGE SELECTIONS WITHIN MODELS).

TOTAL LLF = 0.803 X MANUAL LLF

## ILLUMINANCE VALUES

		DESIGN	CALCULATED
9TH AVE ROAD	AVERAGE FOOTCANDLES	1.3	1.7
	AVERAGE/MINIMUM	3.0	1.73
	MAXIMUM/MINIMUM	5.0	3.10
CLAREMONT ST ROAD	AVERAGE FOOTCANDLES	0.8	1.5
	AVERAGE/MINIMUM	3.5	2.14
	MAXIMUM/MINIMUM	6.0	3.86
9TH AVE SIDEWALK	AVERAGE FOOTCANDLES	0.5	0.9
	AVERAGE/MINIMUM	4.0	1.57
CLAREMONT ST SIDEWALK	AVERAGE FOOTCANDLES	0.5	0.5
	AVERAGE/MINIMUM	4.0	1.32
9TH AVE/ CLAREMONT ST INTERSECTION	AVERAGE FOOTCANDLES	2.0	2.3
	AVERAGE/MINIMUM	3.0	1.94

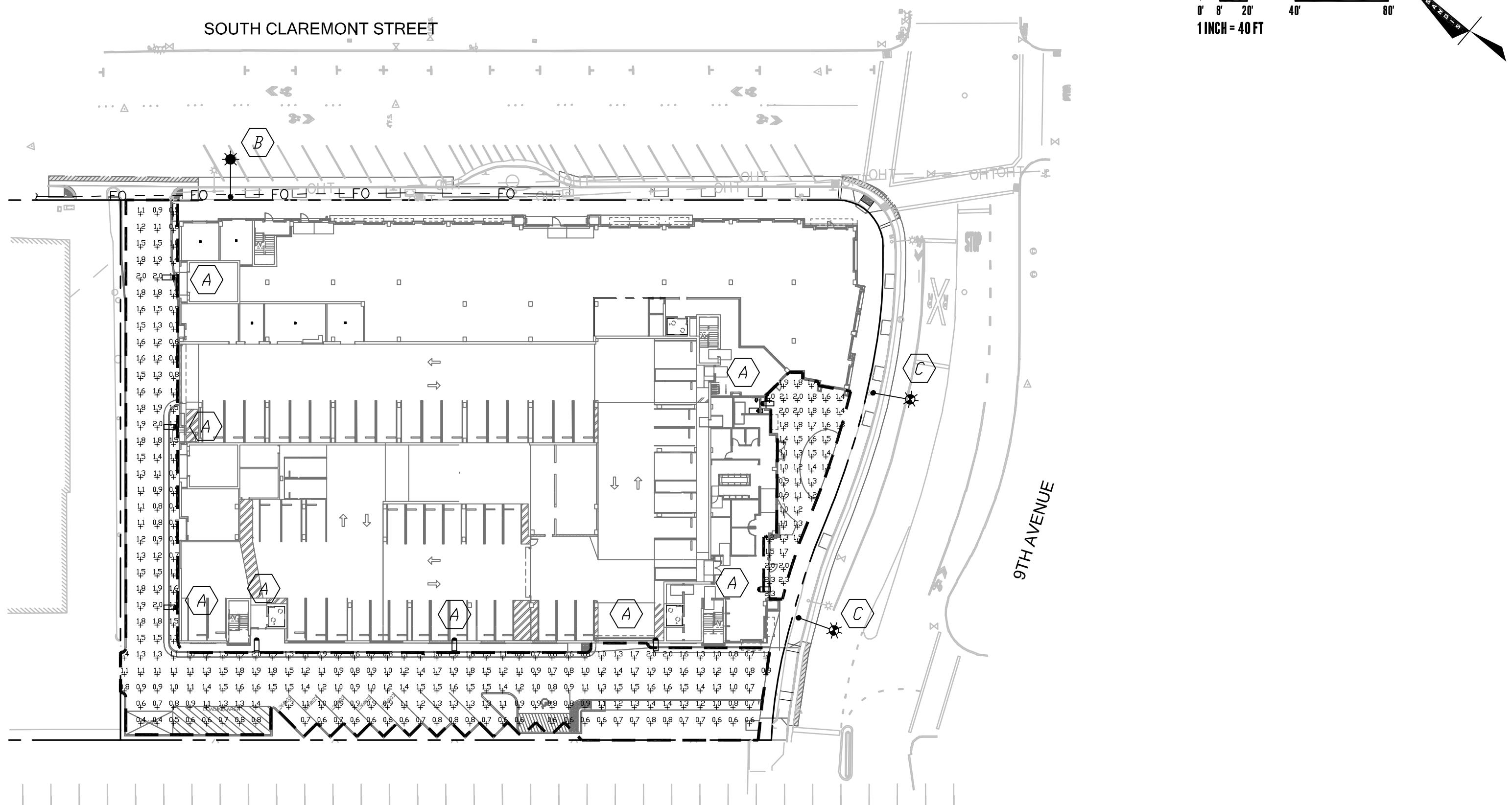
\*DESIGN VALUES WERE DETERMINED BASED ON:

- ANSI/IES RP-8-18 ROADWAY LIGHTING SECTIONS
- CITY OF SAN MATEO STREETLIGHT PHOTOMETRIC ANALYSIS ZONE GUIDELINES (JUNE 2021)
- CITY OF SAN MATEO STREETLIGHT PHOTOMETRIC ANALYSIS ZONE GUIDELINES – EXAMPLE (NOVEMBER 10, 2021)
- CITY OF SAN MATEO COMMENTS DATED FEBRUARY 11, 2022

## OFFSITE PHOTOMETRIC SCHEDULES

SCALE: N.T.S.

C-7.1



## ONSITE PHOTOMETRIC PLAN

SCALE: 1"=40'

**C-8.0**

**477 9TH AVE**

SAN MATEO, CALIFORNIA

JUNE 23, 2023

## LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	POLE HEIGHT	MAST ARM	LUMINAIRE TYPE	VOLTAGE	LIGHT LOSS FACTOR	QUANTITY
		PROPOSED 49W WALL MOUNTED LUMINAIRE	24'	NA	LED	120-277	0.803	8
		PROPOSED 2020-CH-48W COBRA HEAD LUMINAIRE (OFFSITE)*	30'	8	LED	120-277	0.469	1
		PROPOSED 2020-CH-95W COBRA HEAD LUMINAIRE (OFFSITE)*	30'	8	LED	120-277	0.803	2

\*\*OFFSITE FIXTURES WHICH PROVIDE LIGHT ONSITE AT SITE DRIVEWAYS AND FRONTAGES HAVE BEEN INCLUDED IN THIS ANALYSIS FOR ACCURACY.

## ILLUMINANCE VALUES

		DESIGN	CALCULATED
9TH AVE FRONTAGE	AVERAGE FOOTCANDLES	1	1.5
	MINIMUM	0.3	0.9
	AVERAGE/MINIMUM	4	1.71
PARKING DRIVE AISLE	AVERAGE FOOTCANDLES	1	1.2
	MINIMUM	0.3	0.4
	AVERAGE/MINIMUM	4	2.94

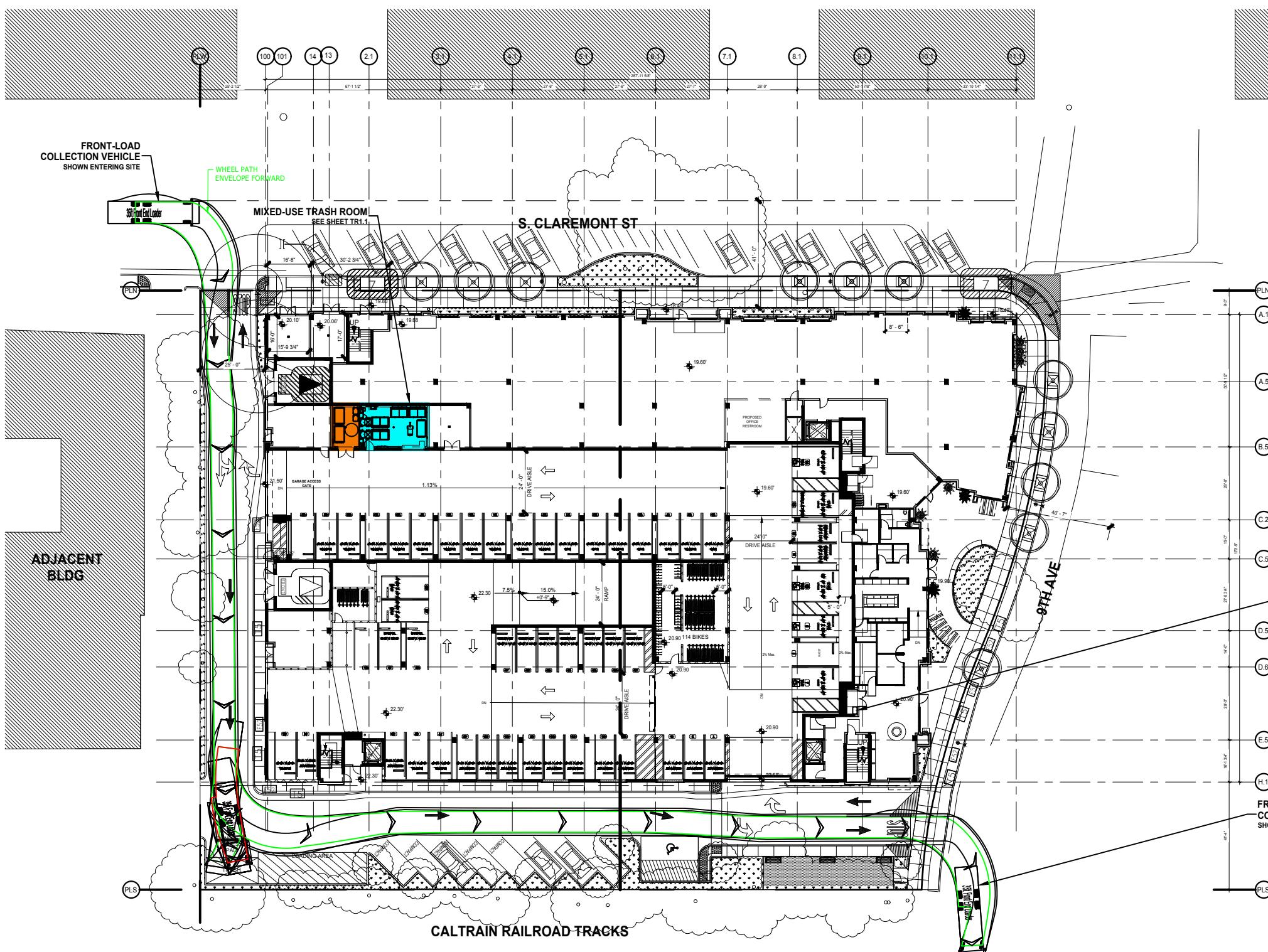
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- CITY OF SAN MATEO COMMENTS DATED FEBRUARY 11, 2022

## ONSITE PHOTOMETRIC SCHEDULES

SCALE: N.T.S.

C-8.1



### FRONT-LOAD TRUCK STUDY

ENTERING AND EXITING SITE

SCALE: NTS

0' 30' 60'



As Indicated

TR0.1



AMERICAN  
TRASH MANAGEMENT  
1900 POWELL STREET, SUITE 220  
EMERYVILLE, CALIFORNIA 94608  
P: 415.292.5410  
F: 415.292.5410  
consultingprojects@trashmanag.com

477 9TH AVE

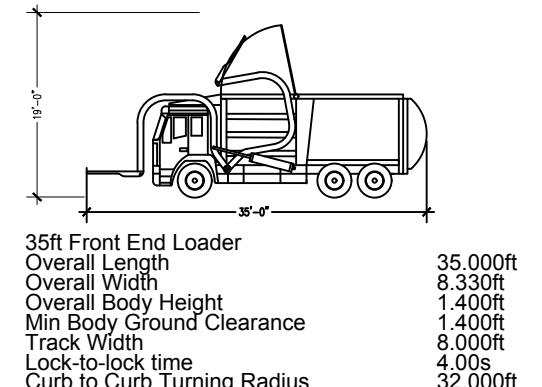
SAN MATEO, CA

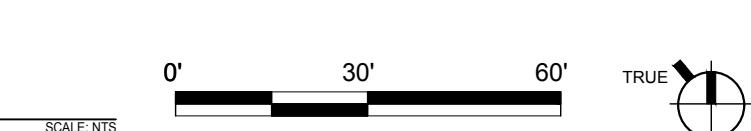
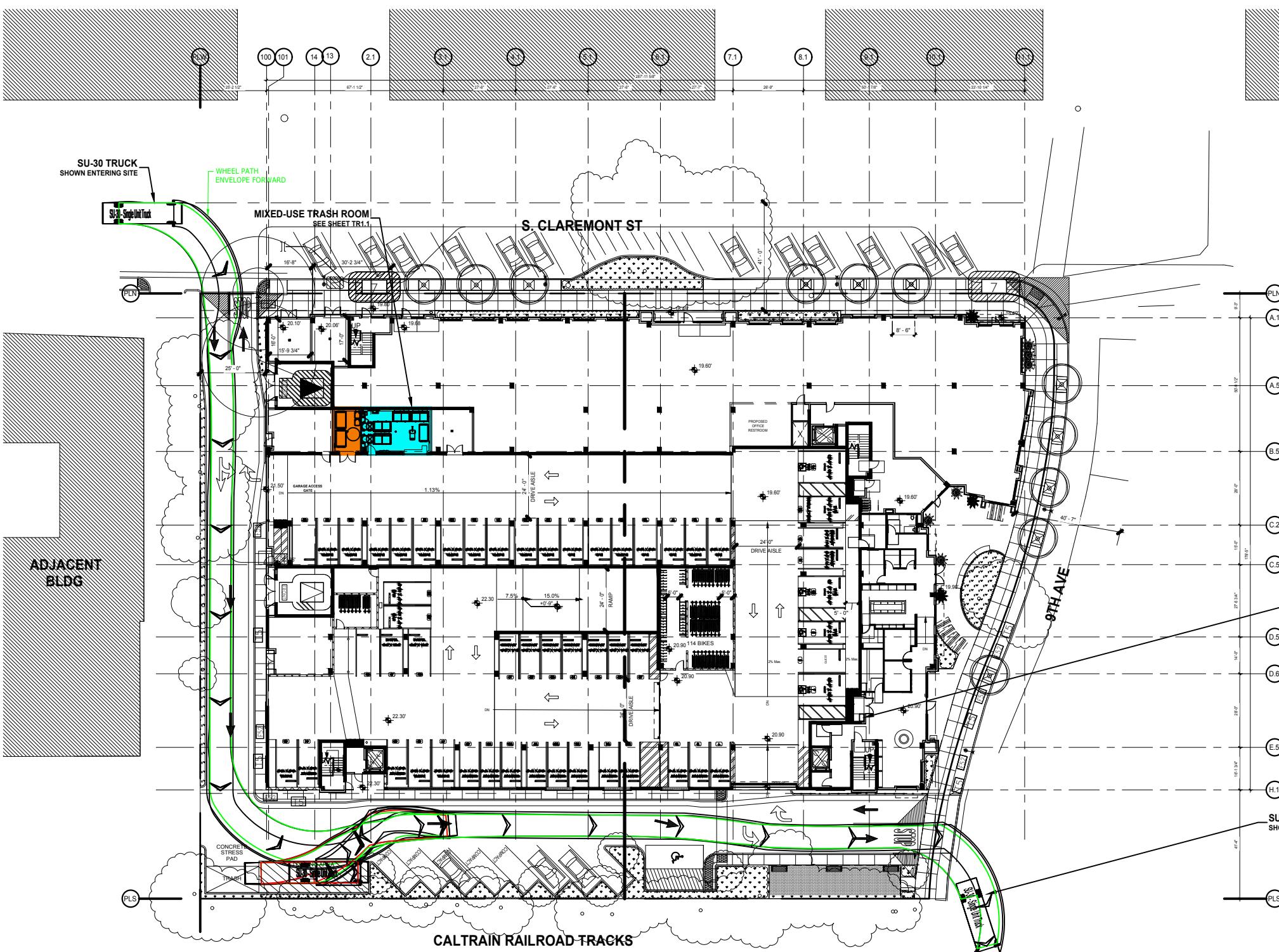
June 23, 2023

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### GENERAL NOTES.

1. ANY DESIGNS OR SOLUTIONS SHOWN IN DRAWING, EITHER DIRECT OR IMPLIED, ARE HEREBY CLARIFIED AS EXAMPLES AND SHALL NOT BE CONSIDERED COMPLETE DESIGNS FOR CONSTRUCTION. THESE DRAWINGS ARE INTENDED TO SUPPLEMENT THE SUBMITTAL PACKAGE FROM ARCHITECT.
2. ANY PARTIAL INFORMATION, OMISSIONS, OR INACCURATE DESCRIPTIONS OF WORK SHOWN IN DRAWINGS, WHICH ARE NECESSARY TO PERFORM THE SCOPE OF WORK, SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLETION OF WORK. ALL WORK SHALL BE PERFORMED TO SATISFY THE MINIMUM REQUIREMENTS OF THE CURRENT APPLICABLE BUILDING CODES.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF CONSTRUCTION. THE ARCHITECT SHALL BE PROMPTLY NOTIFIED OF ANY INCONSISTENCIES AND/OR DISCREPANCIES.





As Indicated

**TR0.2**



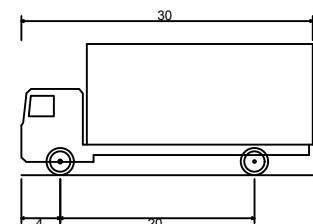
**477 9TH AVE**

**SAN MATEO, CA**

June 23, 2023

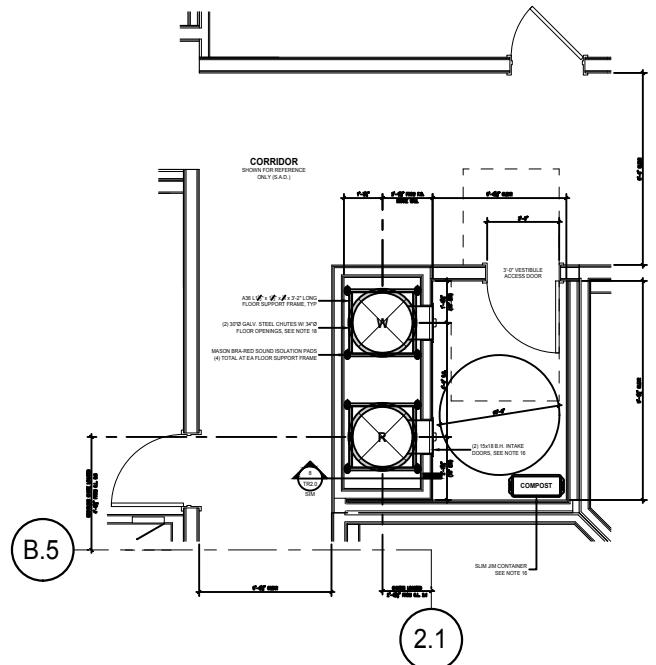
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30.000ft  
8.000ft  
13.500ft  
1.367ft  
8.000ft  
5.00s  
31.80°

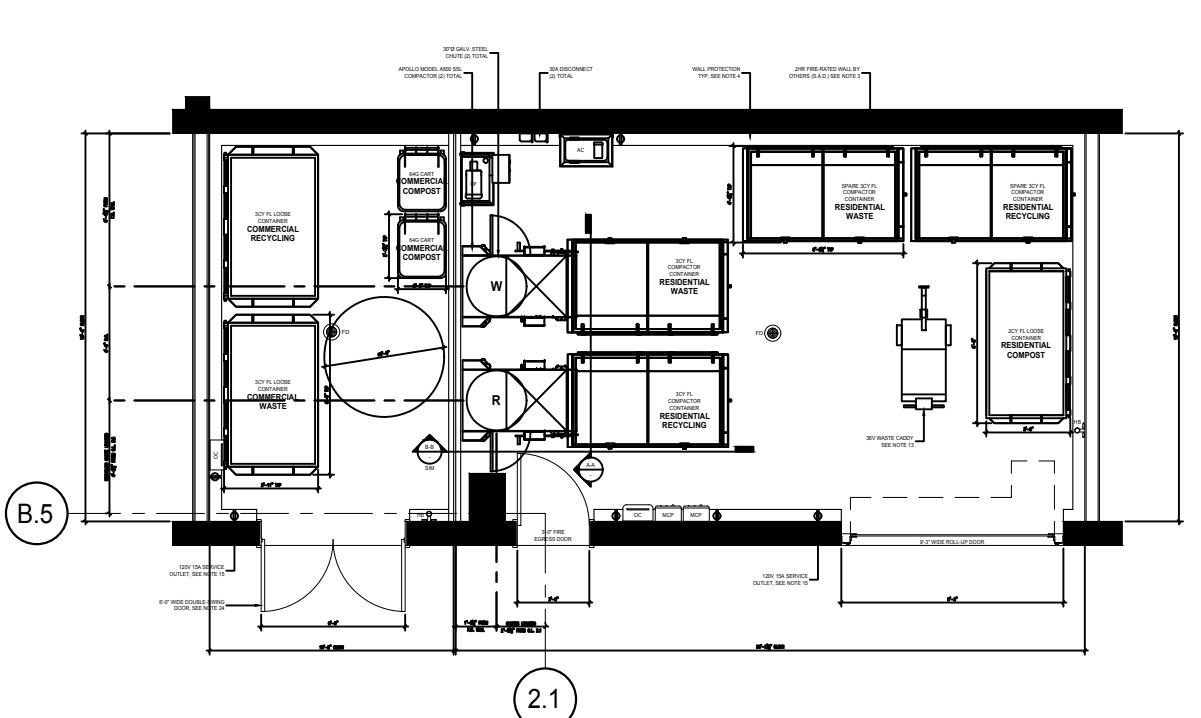
**SU-30 - Single Unit Truck**  
Overall Length  
Overall Width  
Overall Body Height  
Min Body Ground Clearance  
Track Width  
Lock-to-lock time  
Max Steering Angle (Virtual)



### CHUTE INTAKE VESTIBULE

SIMILAR AT LEVELS 3-5

SCALE:  $\frac{1}{8}$  = 1'-0"



### MIXED-USE TRASH ROOM PLAN

LEVEL 1

SCALE:  $\frac{1}{8}$  = 1'-0"

### SECTIONS

AT RESIDENTIAL TRASH ROOM

SCALE:  $\frac{1}{8}$  = 1'-0"

PROJECTED COLLECTION SCHEDULE: RESIDENTIAL TRASH ROOM							
SERVICE:	M	Tu	W	Th	F	Sa	Su
WASTE - 3CY COMPACTED	1						
RECYCLING - 3CY COMPACTED	1		1		1		
COMPOST - 2CY LOOSE	1		1		1		
<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>

PROJECTED COLLECTION SCHEDULE: COMMERCIAL TRASH ROOM							
SERVICE:	M	Tu	W	Th	F	Sa	Su
WASTE - 3CY LOOSE	1					1	
RECYCLING - 3CY LOOSE	1		1		1		
COMPOST - 64G TOTER	2		2		2		
<b>TOTAL</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>

**SHEET NOTES:**  
**RESIDENTIAL TRASH ROOM, LEVEL 1.**

1. TRASH COLLECTION ROOM IS 2HR FIRE-RATED - RESTRICTED ACCESS.
2. FLOOR SHALL BE FINISHED WITH WATERPROOF DECK COATING. FLOOR TO HAVE MINIMAL SLOPE (1° MAX) AND FLOOR DRAIN. FLOOR LEVEL UNDER COMPACTORS.
3. WALLS SHALL BE FINISHED WITH WASHABLE WATERPROOF SURFACE SUCH AS FRP OR HIGH-GLOSS ENAMEL PAINT 8'-0" AFF.
4. WALL PROTECTION: 12" x 6" W CONCRETE CURB AT BASE OF WALLS PER PLAN.
5. ROOM SHALL BE MECHANICALLY VENTILATED WITH (1) CFM/SF PER 2022 CBC.
6. 9'-3" WIDE ROLL-UP DOOR FOR TRANSFERRING CONTAINERS. INSTALL 3'-0" NFPA COMPLIANT DOOR FOR FIRE EGRESS.
7. (2) 30"Ø 16G GALVANIZED OR GALVANNEALED STEEL CHUTES WITH APOLLO MODEL A500 SINGLE-SIDE LATCH COMPACTORS AND 3CY FL COMPACTOR CONTAINERS FOR WASTE AND RECYCLING DISPOSAL. CHUTES SHALL TERMINATE AT 5'-9" AFF. PROVIDE 3'-0" FL LOOSE CONTAINERS FOR COMPOST DISPOSAL.
8. PP: COMPACTOR POWER PACKS SHALL BE FLOOR-MOUNTED AND STACKED VERTICALLY. (2) 5HP 3-PHASE, 208/230/460V. (2) 30A DISCONNECTS 60" AFF.
9. MCP: CHUTE MASTER CONTROL PANEL SHALL BE WALL-MOUNTED 60" AFF. MUST ALLOW LOCK DOWN OF CHUTE INTAKES FOR EXCHANGING CONTAINERS AND WASHING CHUTES. 120V 15A SERVICE OUTLET REQUIRED. (2) TOTAL.
10. AC: AIR COMPRESSOR (OIL LESS) 4610AC WITH AUTOMATIC TANK DRAIN VALVE. 2 HP PEAK, TWIN TANK CAPACITY 4.6 GALLONS, VOLTAGE @ 60 HZ 110 VOLTS, CURRENT 8.5 AMPS TO POWER THE CHUTE INTAKE DOORS. (1) TOTAL.
11. OC: ODOR CONTROL UNIT SHALL BE WALL-MOUNTED 60" AFF. 120V 15A SERVICE OUTLET REQUIRED.
12. HB: HOT AND COLD HOSE BIBB SHALL BE WALL-MOUNTED 60" AFF.
13. PROVIDE A WASTE CADDY FOR TRANSFERRING CONTAINERS. OUTSIDE TURNING RADIUS: 11'-8". INSIDE TURNING RADIUS: 8'-6 1/2". TRAVEL PATH: 3'-6". HALL WIDTH: 5'-11". STAFF SHALL TRANSFER CONTAINERS TO STAGING AREA FOR PICK-UP DAYS. 120V 15A SERVICE OUTLET REQUIRED. STORE IN RESIDENTIAL TRASH ROOM.
14. CHUTE DISCHARGE DOOR: WILKINSON TYPE-A, B-LABEL CONSTRUCTION 90 MINUTE FIRE-RATED, HORIZONTALLY ROLLING DOOR, HELD OPEN BY 165°F FUSIBLE LINK, SHOWN IN CLOSED POSITION.
15. PROVIDE (1) UNDEDICATED 120V 15A SERVICE OUTLET REQUIRED FOR STAFF MAINTENANCE PURPOSE.

#### CHUTE INTAKE VESTIBULE, SIMILAR AT LEVELS 3-5.

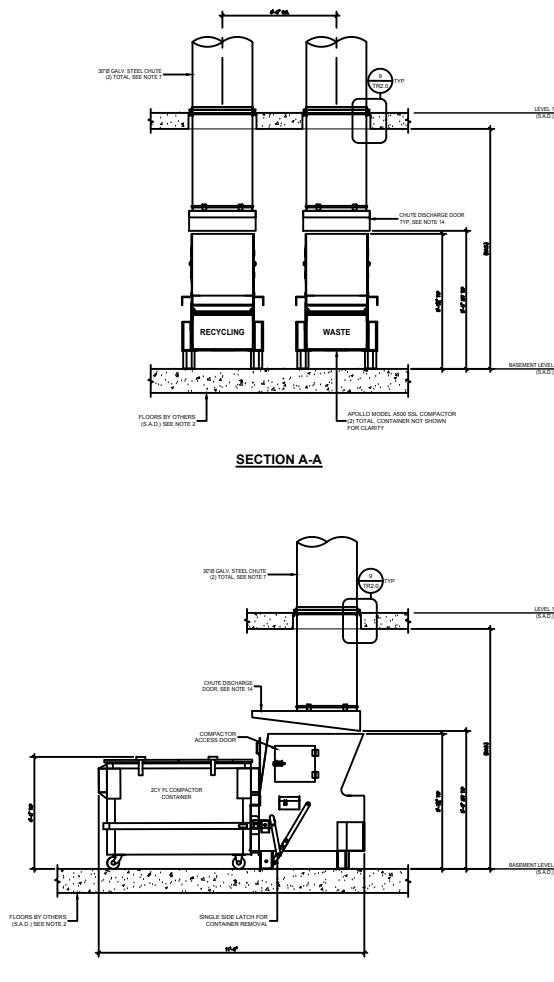
16. CHUTE INTAKE VESTIBULES SHALL BE 2HR FIRE-RATED WITH 2HR FIRE-RATED ACCESS DOORS. 5'-0" MIN CLEAR REQUIRED PER ADA STANDARDS - RESIDENTIAL ACCESS. POWER TO INTAKE DOORS SUPPLIED BY MCP. PROVIDE (2) 15x18 BOTTOM HINGED, NORMALLY CLOSED LOW-VOLTAGE, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING DOOR FOR WASTE AND RECYCLING AT EACH FLOOR. SEE DETAIL 3/TR2.0 FOR COMPOST COLLECTION MANAGEMENT TO PROVIDE 23-GALLON 'RUBBERMAID SLIM JIM' CONTAINER OR EQUIVALENT. STAFF TO EMPTY IN 2CY FL LOOSE CONTAINERS DAILY AT TRASH ROOM. PROVIDE U-LINE MODEL H-1615 COLLAPSIBLE WIRE CONTAINER W/ CASTERS FOR CARDBOARD COLLECTION.
17. 2HR FIRE-RATED FACE WALL SHALL NOT BE ERECTED UNTIL CHUTES HAVE BEEN INSTALLED. FOR SOUND PROOFING PURPOSES, DOUBLE STUD-WALLS ARE REQUIRED ADJACENT TO OCCUPIED SPACES. INTERIOR OF SHAFT SHALL BE TAPE TO PREVENT ODOROUS AIR LEAKING INTO OCCUPIED SPACES.
18. PROVIDE ROUND FLOOR OPENINGS AT CONCRETE FLOORS AND SQUARED FLOOR OPENINGS AT WOOD-FRAME CONSTRUCTION. SEE PLAN FOR DIAMETER OF OPENINGS. INSTALL FLOOR SUPPORT FRAME AT EACH FLOOR PENETRATION TO SECURE CHUTE. SEE DETAIL 9/TR2.0 FOR ANCHORING. POUR RINGS WILL VARY BASED ON THICKNESS OF FLOOR SLAB - PROVIDED BY MANUFACTURER.

#### COMMERCIAL TRASH ROOM, LEVEL 1.

19. TRASH COLLECTION ROOM IS 2HR FIRE-RATED - RESTRICTED ACCESS.
20. FLOOR SHALL BE FINISHED WITH WATERPROOF DECK COATING. FLOOR TO HAVE MINIMAL SLOPE (1° MAX) AND FLOOR DRAIN. FLOOR LEVEL UNDER COMPACTORS.
21. WALLS SHALL BE FINISHED WITH WASHABLE WATERPROOF SURFACE SUCH AS FRP OR HIGH-GLOSS ENAMEL PAINT 8'-0" AFF.
22. WALL PROTECTION: 12" x 6" W CONCRETE CURB AT BASE OF WALLS PER PLAN.
23. ROOM SHALL BE MECHANICALLY VENTILATED WITH (1) CFM/SF PER 2019 CBC.
24. 6'-0" WIDE DOUBLE-SWING DOOR WITH FLOOR SWEEPS AND HOLD-OPENS FOR TRANSFERRING CONTAINERS. DO NOT INSTALL THRESHOLD.
25. OC: ODOR CONTROL UNIT SHALL BE WALL-MOUNTED 60" AFF. 120V 15A SERVICE OUTLET REQUIRED.
26. HB: HOT AND COLD HOSE BIBB SHALL BE WALL-MOUNTED 60" AFF.
27. PROVIDE (1) UNDEDICATED 120V 15A SERVICE OUTLET REQUIRED FOR STAFF MAINTENANCE PURPOSE.

#### GENERAL NOTES.

1. ANY DESIGNS OR SOLUTIONS SHOWN IN DRAWING, EITHER DIRECT OR IMPLIED, ARE HEREBY CLARIFIED AS EXAMPLES AND SHALL NOT BE CONSIDERED COMPLETE DESIGNS FOR CONSTRUCTION. THESE DRAWINGS ARE INTENDED TO SUPPLEMENT THE SUBMITTAL PACKAGE FROM ARCHITECT.
2. ANY PARTIAL INFORMATION, OMISSIONS, OR INACCURATE DESCRIPTIONS OF WORK SHOWN IN DRAWINGS, WHICH ARE NECESSARY TO PERFORM THE SCOPE OF WORK, SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLETION OF WORK. ALL WORK SHALL BE PERFORMED TO SATISFY THE MINIMUM REQUIREMENTS OF THE CURRENT APPLICABLE BUILDING CODES.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF CONSTRUCTION. THE ARCHITECT SHALL BE PROMPTLY NOTIFIED OF ANY INCONSISTENCIES AND/OR DISCREPANCIES.



As Indicated

TR1.1

