Huiting (David) Cai & Jun (Daphne) Shen 477 Harris Road. Hayward CA

Street View 1

Vicinity Map



Site Zoning information:

APN: 453-0060-047

Zone: RM Occupancy: R2

Type of Construction: VB

Sprinklered: Yes: Wet pipe system LFII by Tyco.

Stories: 3

Ht. Limit: 40'-0" Lot Dims: 68' x 130' (APPROX.)

Lot Dims: 68' x 130" (APPROX.)

Lot Area: 9398 SF (per Survey plan)

Setbacks:

Front & Rear: 20'-0" Side Yard: 10% = 6'-9 3/4"

Building Coverage:

Footprint 31% (2939 sf)

Open Space: 69% (6459 Total Hard + Soft Scape)

Landscape Area: sf. (Soft Scape)
Hardscape Area: sf (Hardscape)

These plans will comply with 2022 CBC, 2022 CMC, 2022 CPC, 2022 CRC, 2022 CEC, 2022 CFC, 2022 California Energy Code, California Green Building Requirements.

Scope of Work:

Removal of Single Family Residence.

Construction of 3 Town-House Style Condominiums on lot per Planning and Zoning Regulations.

1:2 RATIO (2500 SF PER DU)

131'-6 23/32"

2 Lot RM Diagram
1" = 20'-0"

Unit Info

9398 Gross SF. / 2500 SF per Unit = 3.75 (3 Units)

Parking: 1 + 1.1 per DU = 6.3 (7 Spaces Required)
2 Provided to each unit. 1 Public Space provided at back of property

Unit #1:

Area total: 3391.6 sf Parking: 2 Enclosed Spaces Bedrooms: 4

Bathrooms: 4 full / 2 half

<u>Unit #2:</u>

Area Total: 2458.8 sf Parking: 2 Enclosed Spaces

Bedrooms: 4
Bathrooms: 3 Full / 1 Half

<u>Unit #3:</u>

Area Total: 3391.6 sf Parking: 2 Enclosed Spaces Bedrooms: 4 Bathrooms: 3 Full / 1 Half

Area Calcs for HMC 10-1.205(a) [2]: 1st Floor area: 2965 sf Area of 3rd Floor: 2372 sf. **2965*0.8= 2372**

<u>Owner</u>

Tengjun LLC
David Cai and Daphne Shen
477 Harris Rd.
Hayward CA 94544
1-408-888-6198

Architect:

Michael Ryan Architect Lic No. C-30179 2539 Lake St #4 San Francisco CA 94121 415-336-6937 c. 415-276-6372 f. starchitect@gmail.com

Civil Engineers

Lea and Braze Engineering Johnny Chiu (Contact) 2495 Industrial Pkrwy W. Hayward, CA 94545 1-510-887-4086 p 1-510-887-3019 JChiu@leabraze.com

Landscape Architect

Taniguchi Landscape Architects
Dennis Taniguchi (Contact)
Lic no. 2942
1013 South Claremont St., Ste.1
San mateo CA 94402
1-650-638-9985
1-650-638-9986
dennis@dtlandarch.com

	Sheet Index
Sheet	
Number	Sheet Name

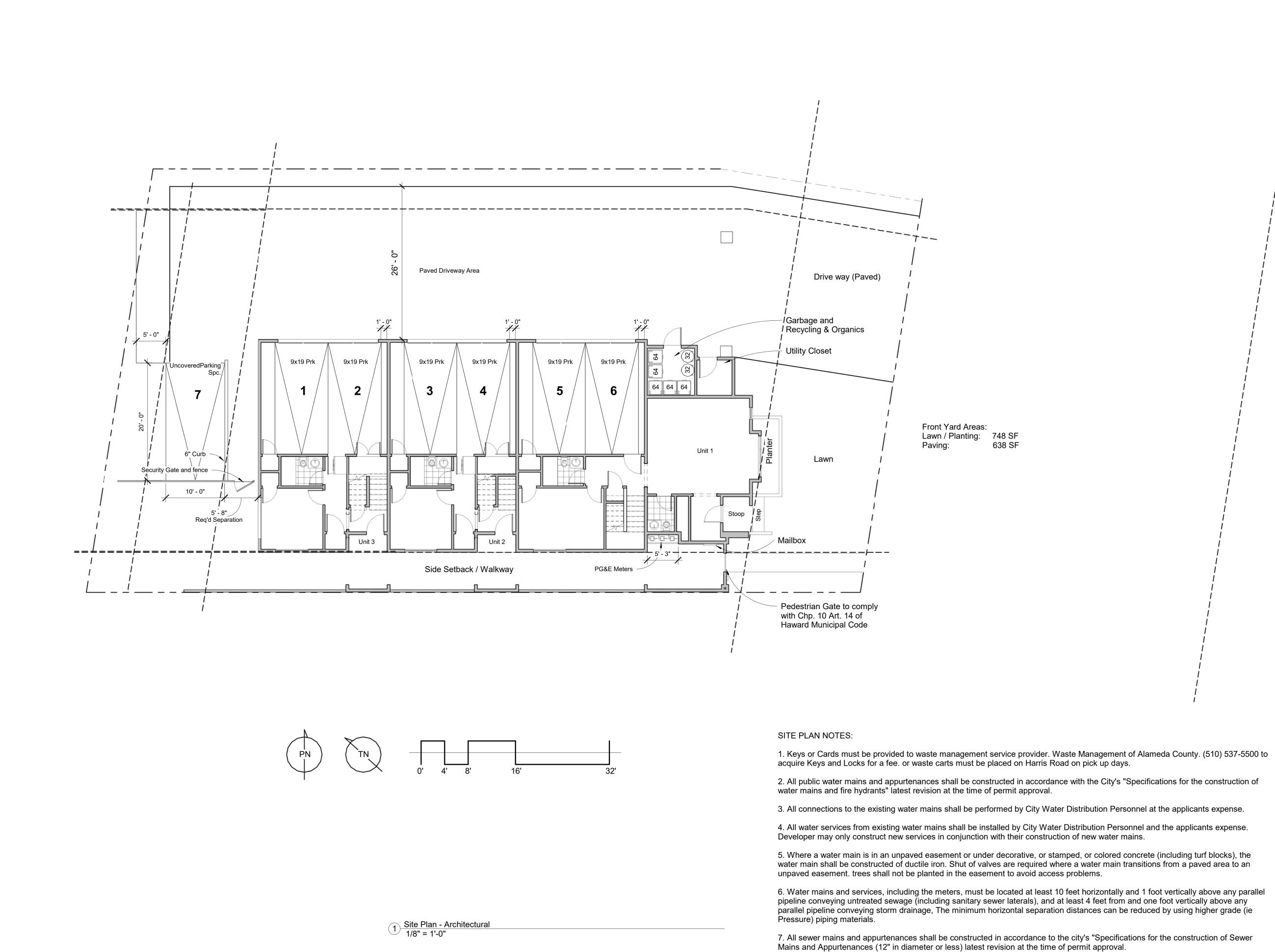
A0.0	Cover Sheet
A0.1	Site Plan - Architectural
A1.0	1st Floor Proposed
A1.1	2nd Flr Proposed
A1.2	3rd Flr Proposed
A1.3	Roof Plan Proposed
A2.0	Elevations
A2.1	Elevations
A4.0	Sections
A4.1	Sections
A6.0	Site Plan - Existing
A6.1	Floor Plan - Existing
A6.2	Elevations - Existing
SU1	Site Survey
TM-1	Prelim. Title Sheet
TM-2	Prelim. Lot Layout Site Plan
TM-3	Prelim. Grading, Drainage, Util. Plan
TM-4	Prelim. StormWater Plan
BMP-1	Clean Bay Blue Print
L-1A	Prelim Landscape Plan 1
L-1B	Prelim Landscape Plan 2-3
L-2A	Hydrozone Plan 1
L-2B	Hydrozone Plan 2-3
L-2C	Irrigation Notes
L-3	Landscape Details

1" = 20'-0"

0.0

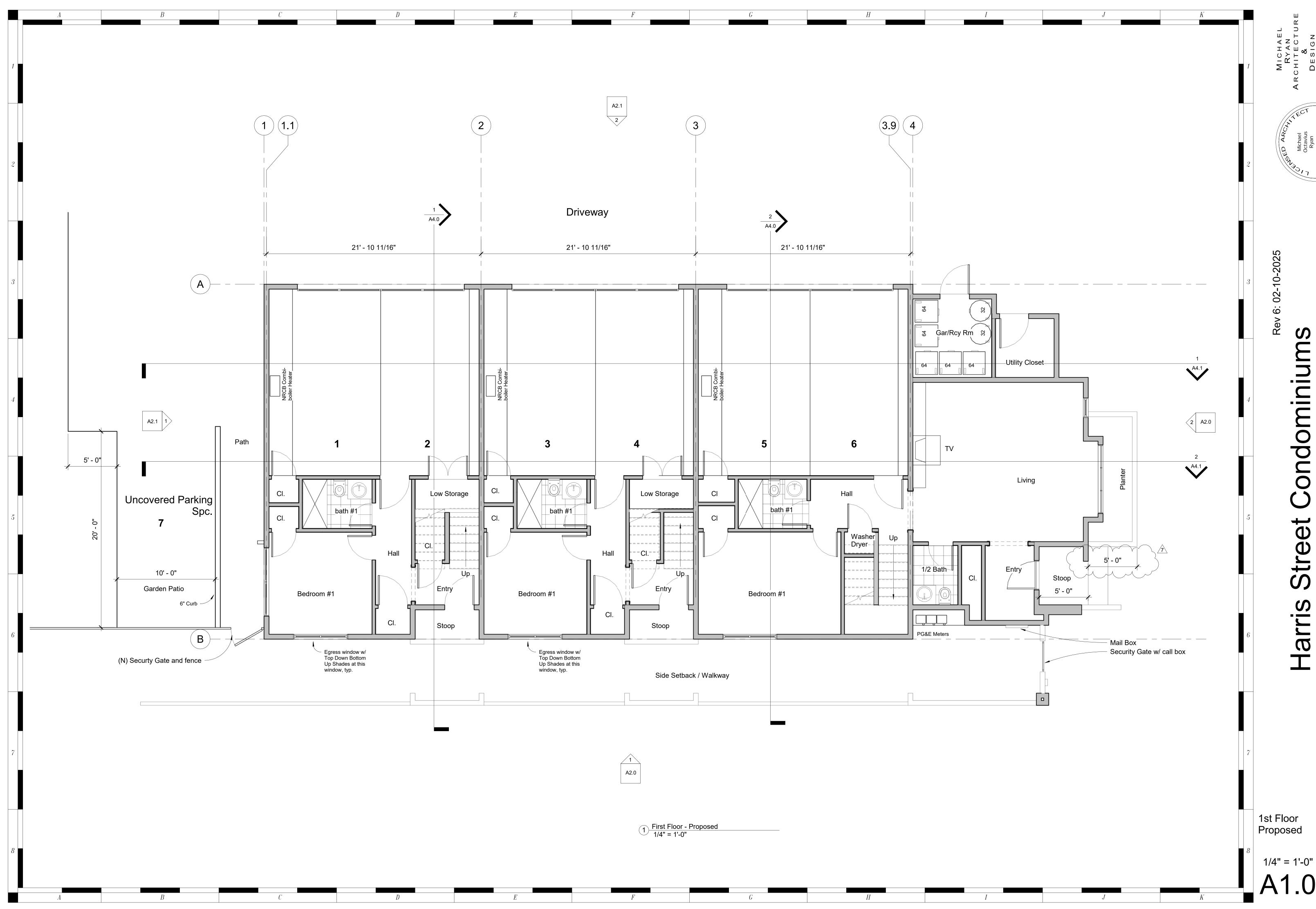


et Condomir 77 harris Road.

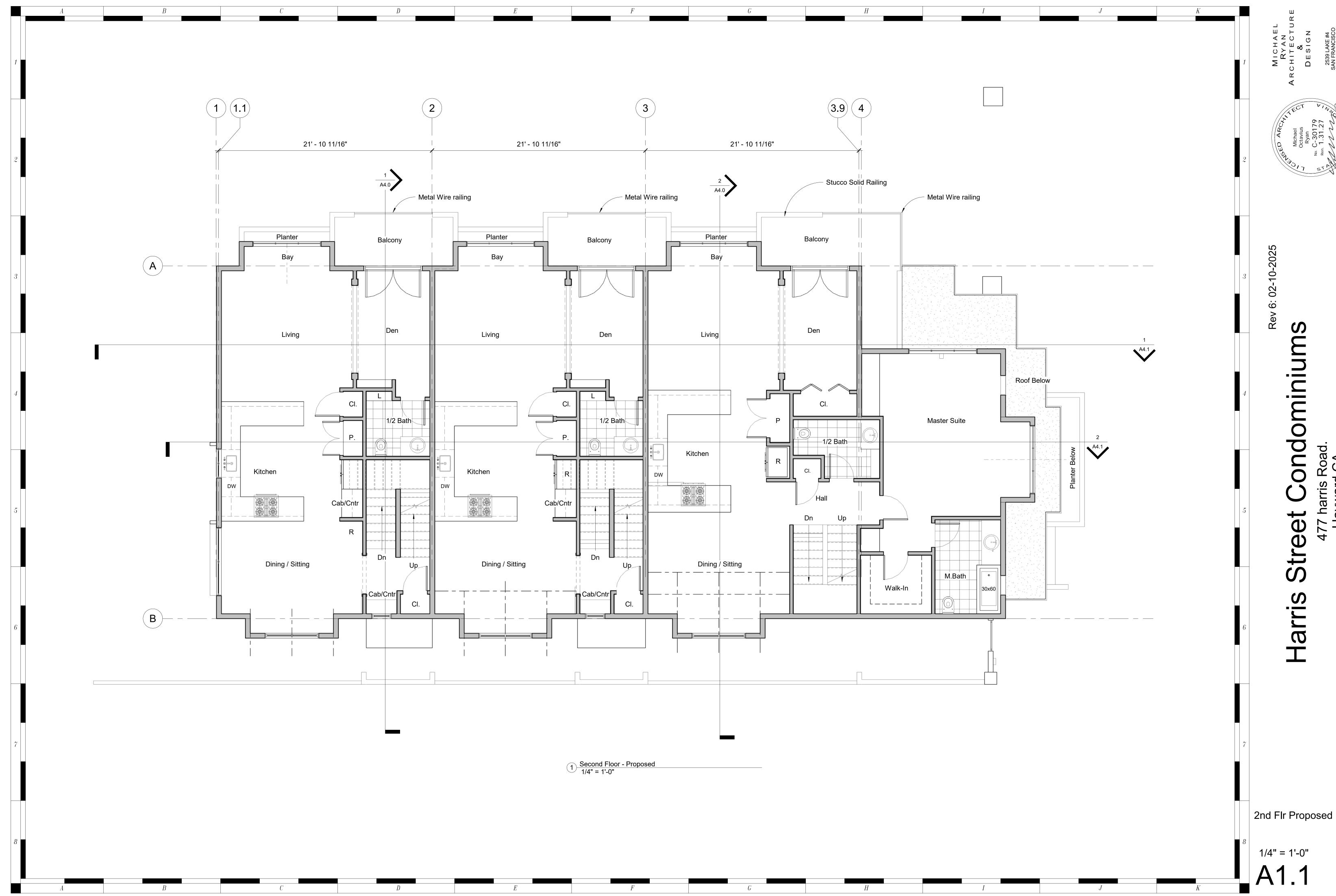


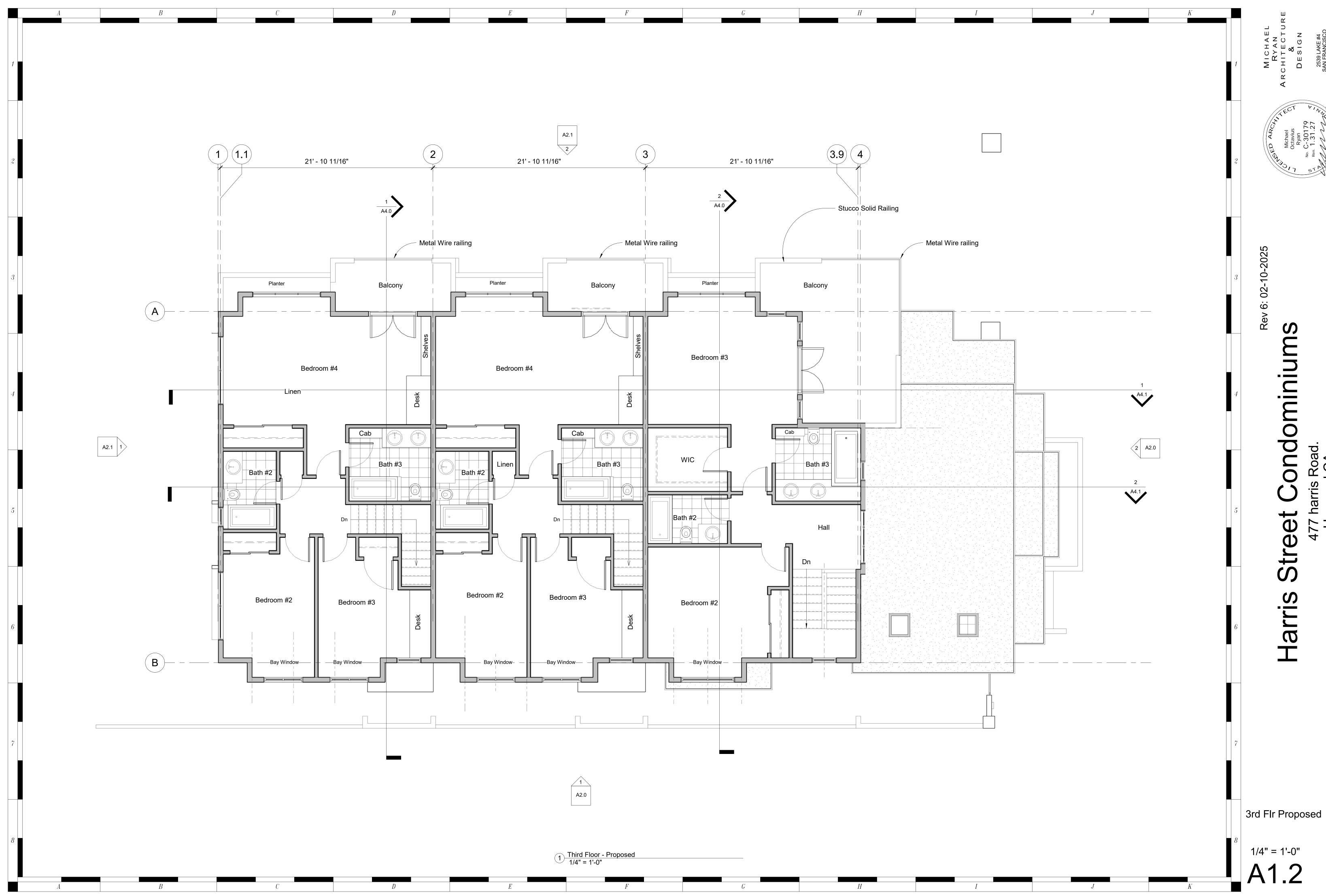
Site Plan -Architectural

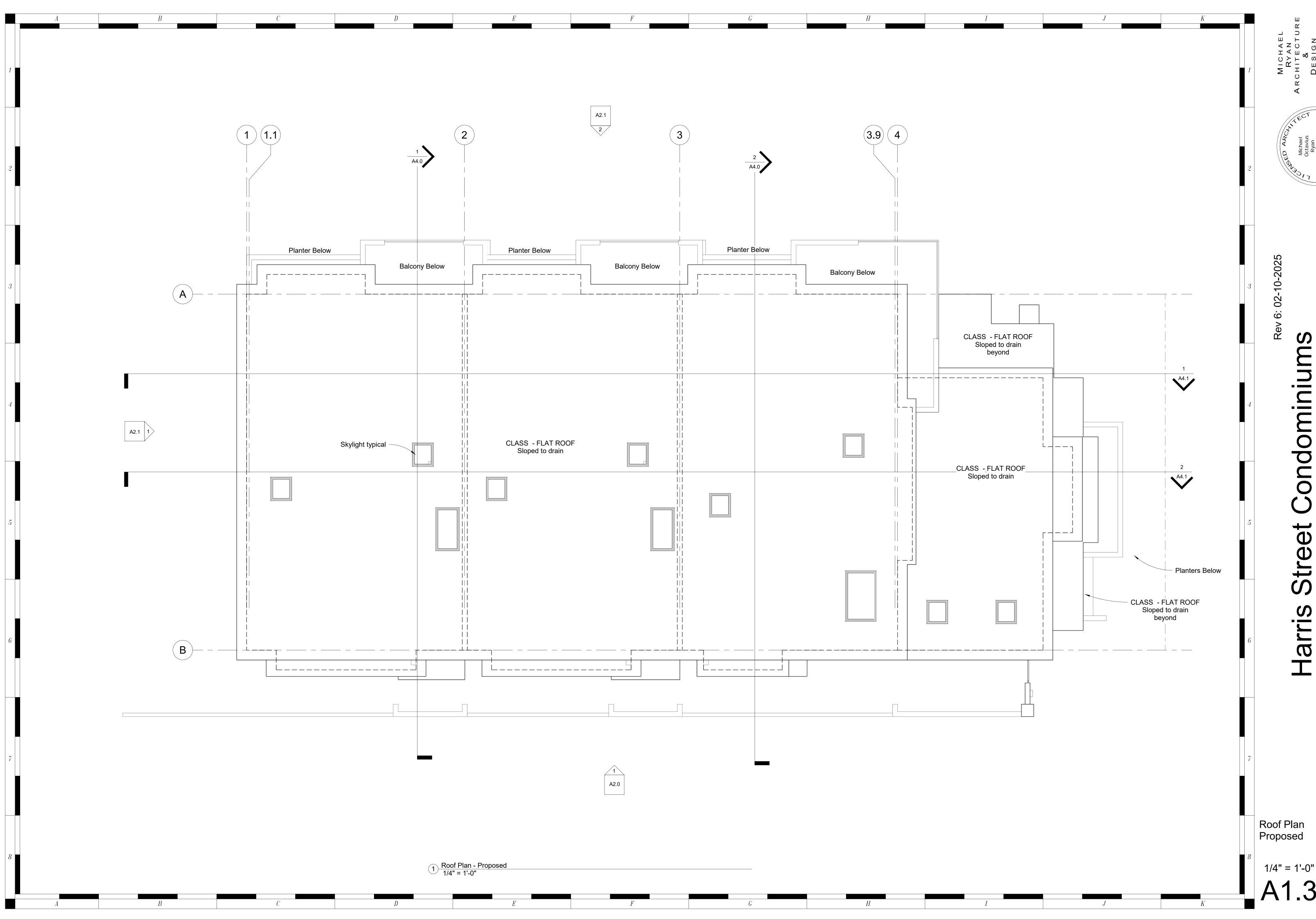
1/8" = 1'-0"

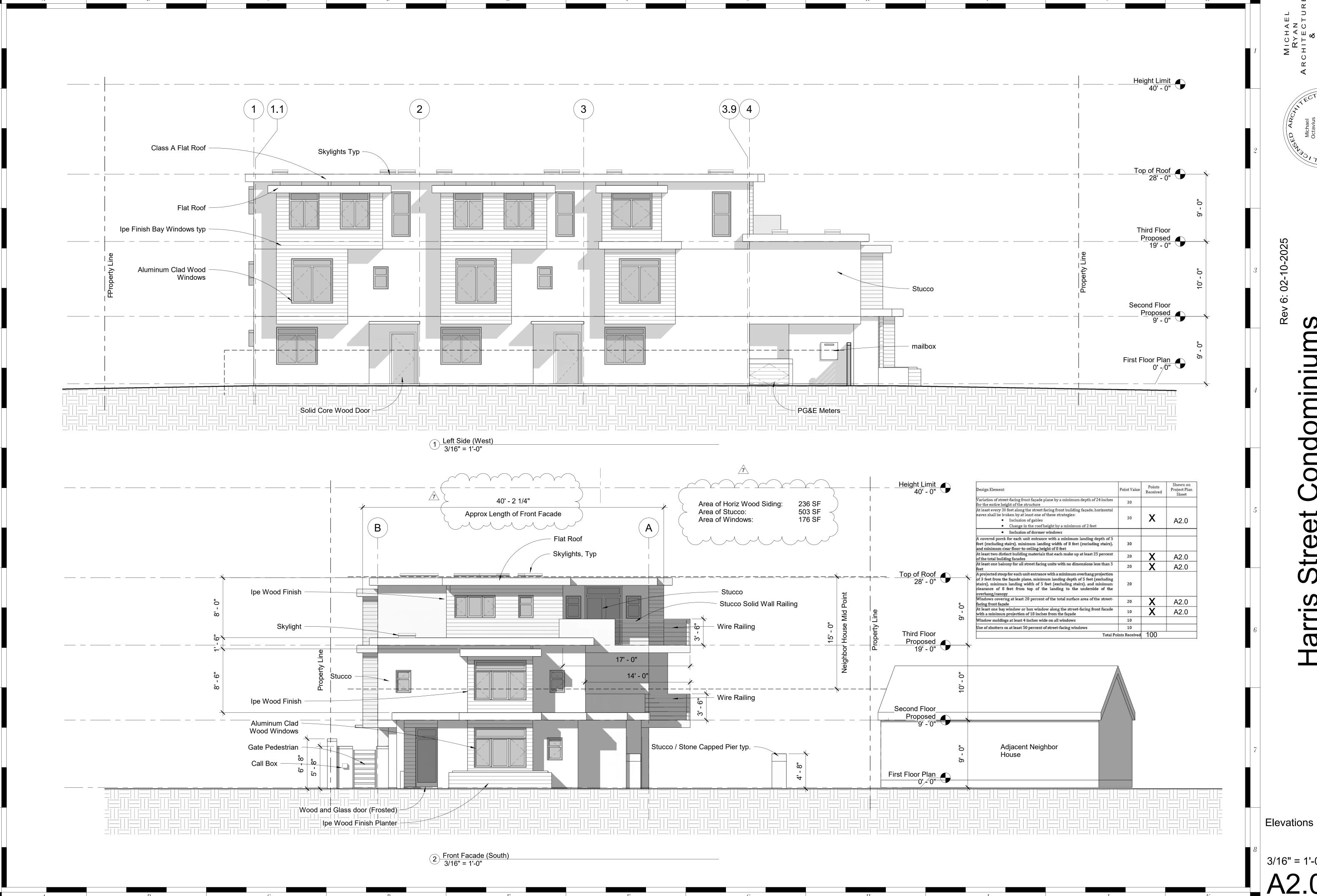


Harris



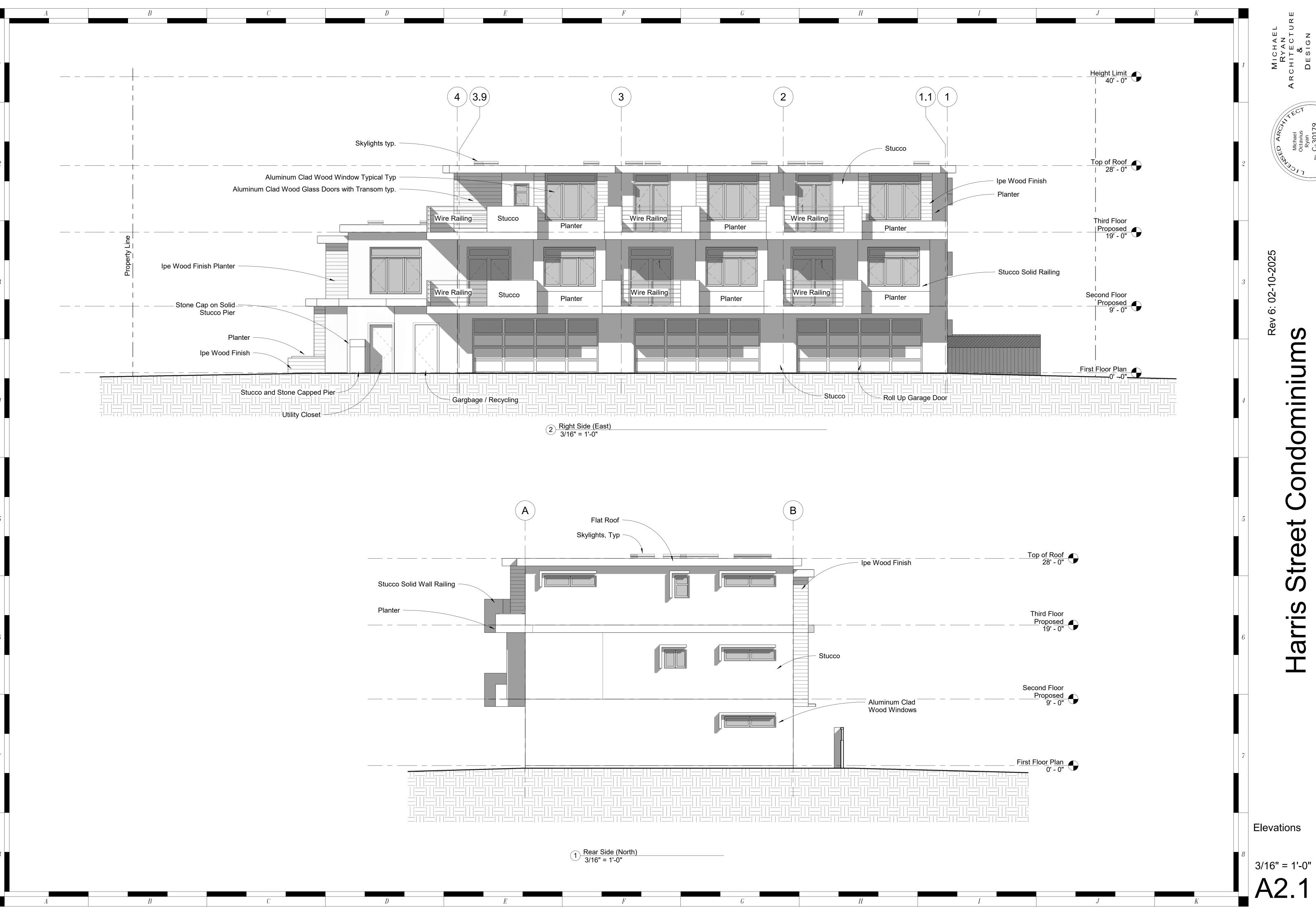




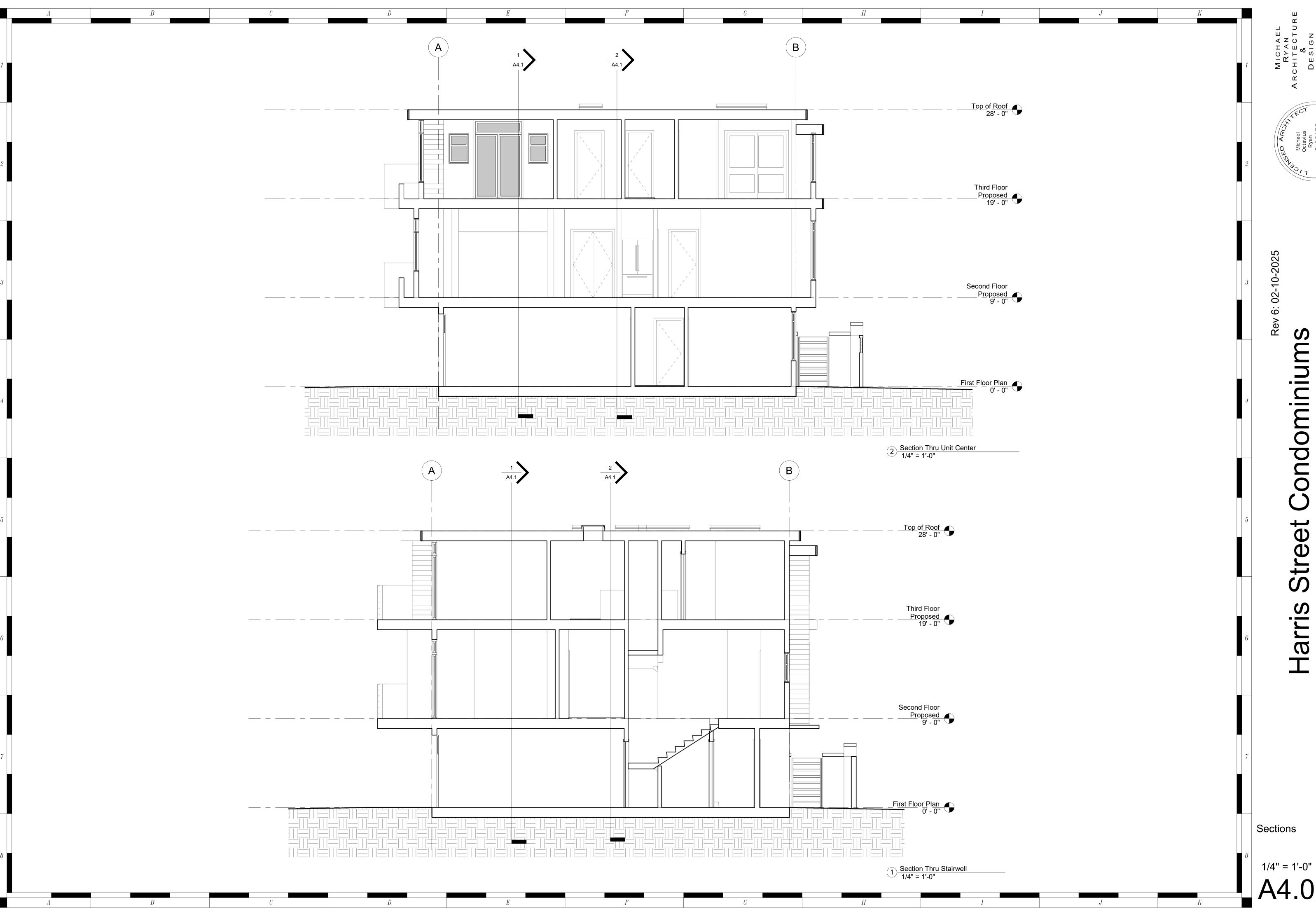


Street Harris

3/16" = 1'-0"

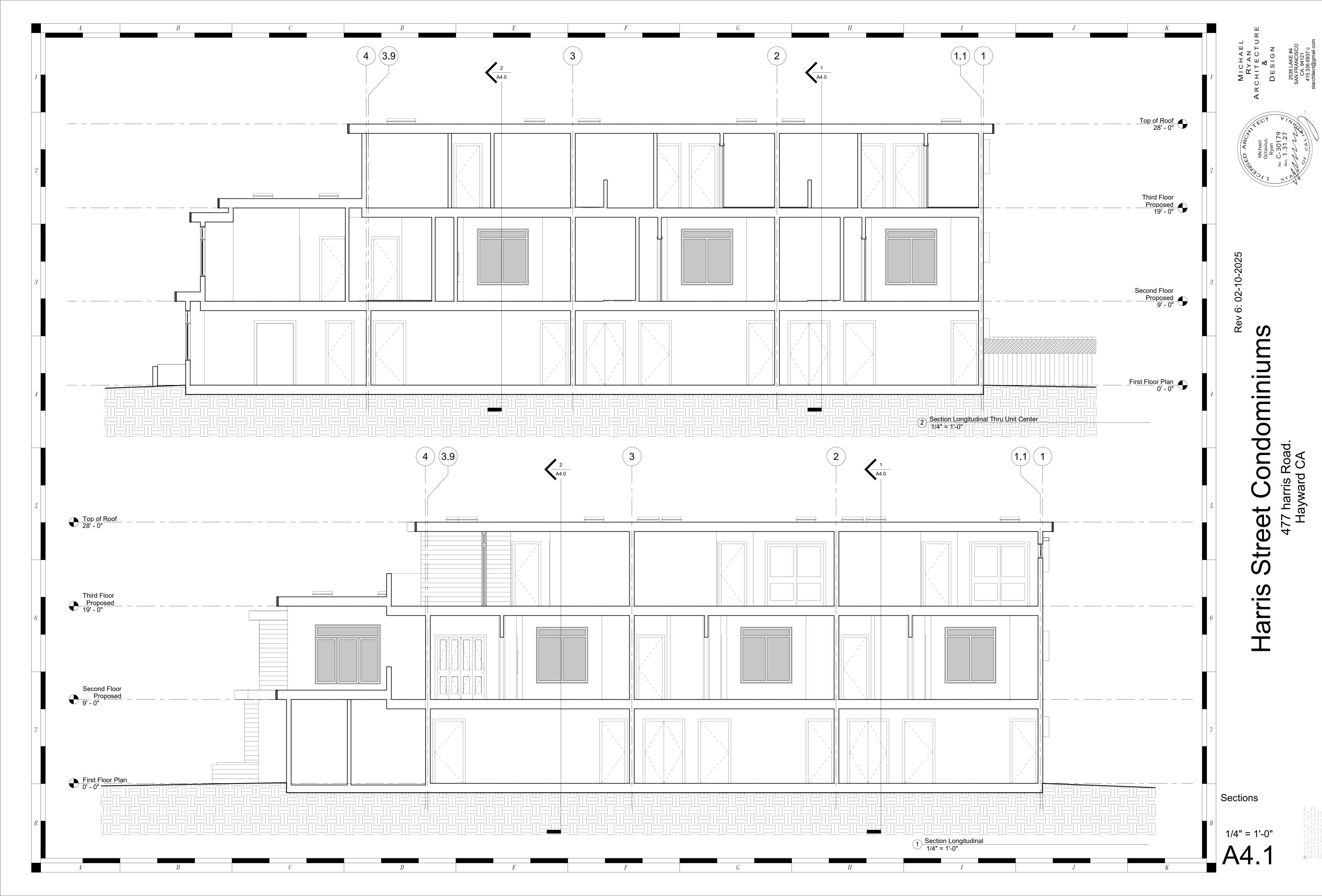


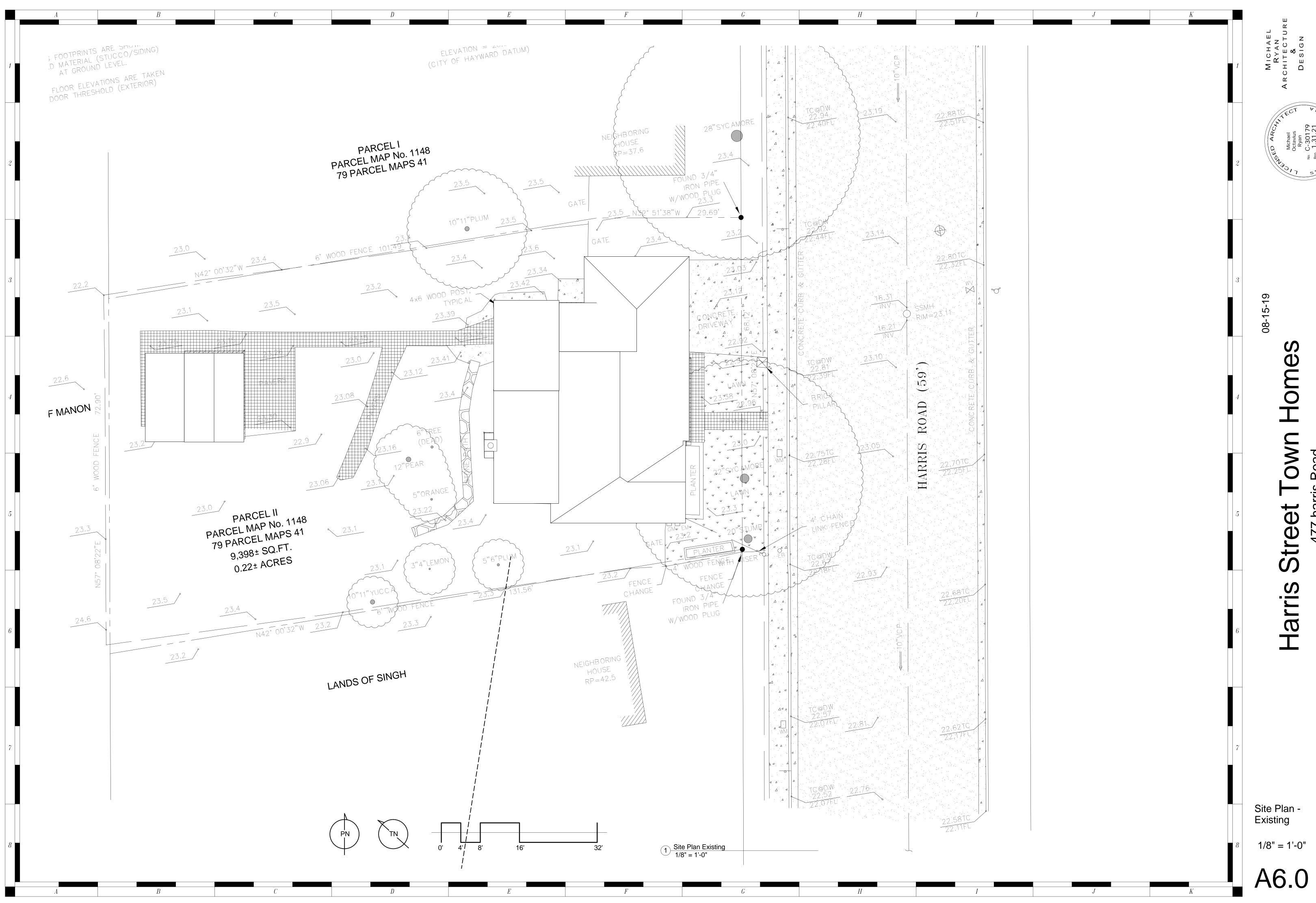
ndominium



Harris



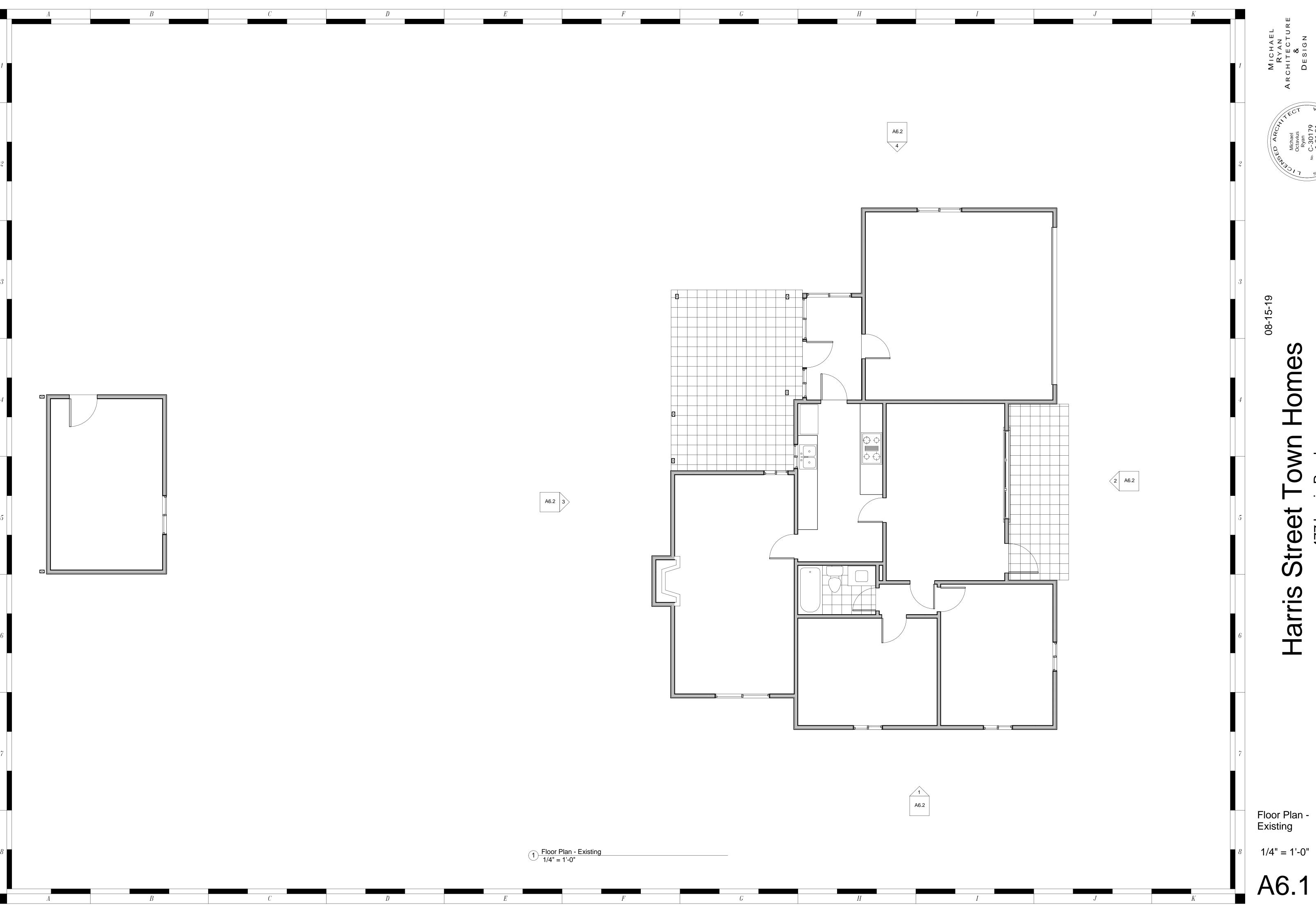




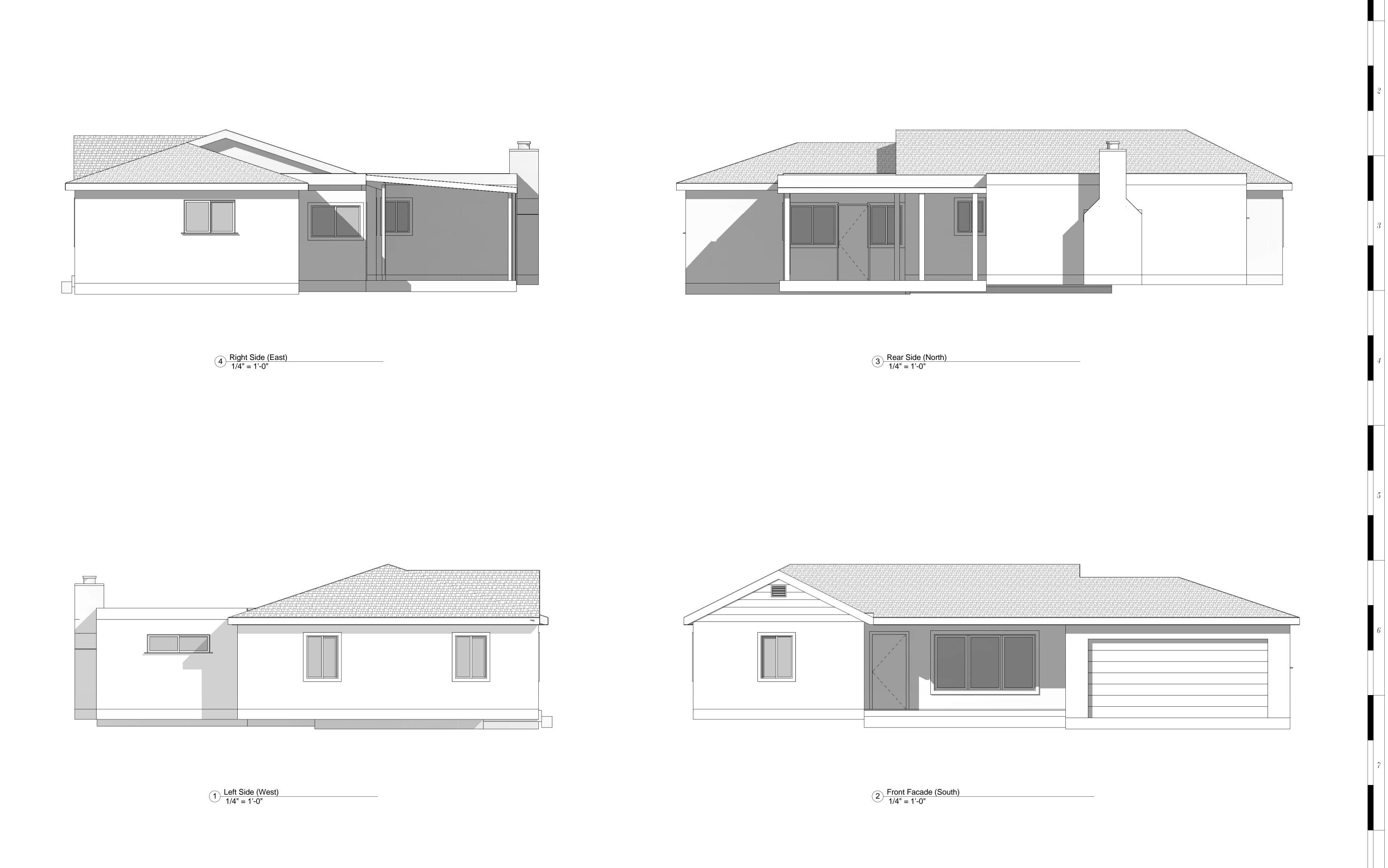
Harris



1/8" = 1'-0"







Harris Street

1/4" = 1'-0"

Elevations -Existing

VESTING TENTATIVE MAP PARCEL MAP #11187 3-UNIT CONDOMINIUM TENGJUN, LLC 477 HARRIS ROAD HAYWARD, CALIFORNIA

GFF: 24.20 GFF: 24.20 (N) GARAGE UNIT 3 FF: 24.40 FF: 24.40 FF: 24.40 **BBQ** LANDS OF SINGH

	ABBREVIAT	<u>IONS</u>	
\B	AGGREGATE BASE	MAX	MAXIMUM
/C	ASPHALT CONCRETE	MH	MANHOLE
CC	ACCESSIBLE	MIN	MINIMUM
ND	AREA DRAIN	MON.	MONUMENT
BC .	BEGINNING OF CURVE	MRO	METERED RELEASE OUTLET
8 & D	BEARING & DISTANCE	(N)	NEW
BM	BENCHMARK	ŇŎ.	NUMBER
BUB	BUBBLER BOX	NTS	NOT TO SCALE
BW/FG	BOTTOM OF WALL/FINISH	O.C.	ON CENTER
	GRADE	0/	OVER
B	CATCH BASIN	(PA)	PLANTING AREA
& G	CURB AND GUTTER	PED´	PEDESTRIAN
	CENTER LINE	PIV	POST INDICATOR VALVE
PP	CORRUGATED PLASTIC PIPE	PSS	PUBLIC SERVICES EASEMENT
	(SMOOTH INTERIOR)	P	PROPERTY LINE
:0	ČLEANOUT	PΡ	POWER POLE
OTG	CLEANOUT TO GRADE	PUE	PUBLIC UTILITY EASEMENT
ONC	CONCRETE	PVC	POLYVINYL CHLORIDE
ONST	CONSTRUCT or -TION	R	RADIUS
ONC COR	CONCRETE CORNER	RCP	REINFORCED CONCRETE PIPE
Y	CUBIC YARD	RIM	RIM ELEVATION
)	DIAMETER	RW	RAINWATER
)[DROP INLET	R/W	RIGHT OF WAY
IP .	DUCTILE IRON PIPE	S	SLOPE
A	EACH	S.A.D.	SEE ARCHITECTURAL DRAWING
C G	END OF CURVE	SAN	SANITARY
.G	EXISTING GRADE	SD	STORM DRAIN
L P Q	ELEVATIONS	SDMH	STORM DRAIN MANHOLE
P	EDGE OF PAVEMENT	SF	SQUARE FEET
Q	EQUIPMENT	SHT	SHEET
:W	EACH WAY	S.L.D.	SEE LANDSCAPE DRAWINGS
E)	EXISTING	SPEC	SPECIFICATION
Ċ	FACE OF CURB	SS	SANITARY SEWER
F	FINISHED FLOOR	SSCO	SANITARY SEWER CLEANOUT
G	FINISHED GRADE	SSMH	SANITARY SEWER MANHOLE
ÏH .	FIRE HYDRANT	ST.	STREET
Ĺ	FLOW LINE	STA	STATION
S	FINISHED SURFACE	STD	STANDARD
, . A	GAS CALICE	STRUCT	STRUCTURAL
SA SB	GAGE OR GAUGE	T	TELEPHONE
B IDBE	GRADE BREAK	TC	TOP OF CURB
IDPE	HIGH DENSITY CORRUGATED POLYETHYLENE PIPE	TOW	TOP OF WALL
IORIZ	HORIZONTAL	TEMP	TEMPORARY
IORIZ II PT	HIGH POINT	TP	TOP OF PAVEMENT
18 F 1	HUB & TACK	TW/FG	TOP OF WALL/FINISH GRADE
)	INSIDE DIAMETER	TYP	TYPICAL CURVE
NV	INVERT ELEVATION	VC	VERTICAL CURVE
NV R	JUNCTION ROY	VCP	VITRIFIED CLAY PIPE

JUNCTION BOX

JOINT TRENCH

LENGTH

LANDING

LINEAR FEET

JOINT UTILITY POLE

LEGEND

DESCRIPTION

RETAINING WALL

SUBDRAIN LINE

TIGHTLINE

WATER LINE

Pressure line

JOINT TRENCH

SET BACK LINE

EARTHEN SWALE

CATCH BASIN

JUNCTION BOX

AREA DRAIN

CURB INLET

FIRE HYDRANT

STREET SIGN

SPOT ELEVATION

FLOW DIRECTION

DEMOLISH/REMOVE

TREE TO BE REMOVED

BENCHMARK

CONTOURS

CONCRETE VALLEY GUTTER

STORM DRAIN MANHOLE

SANITARY SEWER MANHOLE

GAS LINE

LANDSCAPE RETAINING WALL

RAINWATER TIGHTLINE

STORM DRAIN LINE

SANITARY SEWER LINE

ERED RELEASE OUTLET TO SCALE CENTER NTING AREA ESTRIAN T INDICATOR VALVE LIC SERVICES EASEMENT PERTY LINE ÆR POLE LIC UTILITY EASEMENT YMNYL CHLORIDE IFORCED CONCRETE PIPE **ELEVATION** NWATER IT OF WAY ARCHITECTURAL DRAWINGS RM DRAIN RM DRAIN MANHOLE ARE FEET LANDSCAPE DRAWINGS CIFICATION

VERTICAL

WATER LINE

WATER METER

WELDED WIRE FABRIC

BUILDING/STRUCTURE SETBACK (FT) FRONT *SIDE 6.81

*10% OF LOT WIDTH AT THE FRONT SETBACK LINE.

EASEMENT NOTE THERE ARE NO RECORD EASEMENTS PER

PRELIMINARY TITLE REPORT ISSUED BY CHICAGO TITLE COMPANY, ORDER NO. FWAC-T018002407-JG, DATED AS OF DECEMBER 7, 2018

TE LOCATION	477 HARRIS, HAYWARD, CA
SSESSOR PARCEL NUMBER	453-0060-047
OTAL LOT AREA	9,398 SF / 0.22 AC
KISTING LAND USE ZONING DISTRICT	RS
INIMUM LOT AREA	SINGLE FAMILY RESIDENCE 5,000 SF
ROPOSED LAND USE ZONING DISTRICT	RM
INIMUM LOT AREA	MEDIUM DENSITY RESIDENTIAL, 2,500 SF
INIMUM LOT DIMENSION	68 FT.
AXIMUM ALLOWABLE BUILDING LOT COVERAGE	40% (PER HMC SEC 10-1.425 (e))
PEN SPACE PER LOT	MINIMUM 1,000 SF OF PRIVATE, USABLE OPEN AREA

CITY OF HAYWARD

	GROSS AREA (SF)	GROSS AREA (AC)	BUILDING LOT COVERAGE AREA (SF)	BUILDING LOT COVERAGE (%)*	OPEN SPACE (SF)	OPEN SPACE COVERAGE (%)	NET PARCEL AREA (SF)	
PARCEL#1	9,398	0.22	2,958	31.5%	6,440	68.5%	9,398	
*BUILDING LOT	*BUILDING LOT COVERAGE IS DEFINED BY AREA ENCLOSED BY EXTERIOR WALLS OR SIMILAR ROOF-SUPPORTING DEVICES OF ALL STRUCTURES PER CITY OF HAYWARD							
ZONING ORDIN	ZONING ORDINANCE SEC 10-1.3500.							

KEY MAP 1" = 10'

BENCHMARK CITY OF HAYWARD BENCHMARK MONUMENT DISK AT TYRELL AVENUE AND HARRIS ROAD ELEVATION = 20.88'(CITY OF HAYWARD DATUM)

NOTES

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS OF A FOOT. UNDERGROUND UTILITY LOCATION

IS BASED ON SURFACE EVIDENCE.

BUILDING FOOTPRINTS ARE SHOWN TO FINISHED MATERIAL (STUCCO/SIDING) AT GROUND LEVEL.

FINISH FLOOR ELEVATIONS ARE TAKEN AT DOOR THRESHOLD (EXTERIOR)

SITE BENCHMARK

SURVEY CONTROL POINT MAG AND SHINER SET IN ASPHALT ELEVATION = 22.94'(CITY OF HAYWARD DATUM)

ENGINEER'S STATEMENT

i. I, JAMES TOBY, CERTIFY THAT TENTATIVE MAP WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT IT COMPLIES WITH THE CITY OF HAYWARD SUBDIVISION ORDINANCE AND THE STATE MAP ACT.

JAMES TOBY, PROJECT ENGINEER, P.E RCE: 63127

GEOTECHNICAL ENGINEER'S STATEMENT

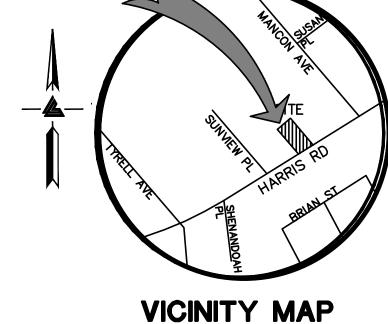
ii. A SOIL REPORT ON THIS PROPERTY HAS BEEN PREPARED BY, ROMIG ENGINEERS, ENTITLED "GEOTECHNICAL INVESTIGATIONS", DATED NOVEMBER 15, 2019, WHICH HAS BEEN FILED WITH THE CITY OF HAYWARD.

TOM W. PORTER, P.E. DATE RCE: 77883

SURVEYOR'S STATEMENT

iii. I, GREGORY F. BRAZE, A LICENSED LAND SURVEYOR IN THE STATE OF CALIFORNIA, HEREBY STATE THAT THIS TENTATIVE MAP IS BASED UPON SURVEY UNDER MY DIRECT SUPERVISION AND THAT IT COMPLIES WITH THE CITY OF HAYWARD SUBDIVISION ORDINANCE AND STATE MAP ACT.

GREGORY F. BRAZE, P.L.S. DATE L#: 7623



OWNER'S INFORMATION

DAVID CAI AND DAPHNE JUN SHEN 477 HARRIS ROAD HAYWARD, CA PHONE: 408-839-3840

APN: 453-0060-047

REFERENCES

THIS TENTATIVE MAP PLAN IS SUPPLEMENTAL TO: TOPOGRAPHIC SURVEY BY LEA & BRAZE ENGINEERING "TOPOGRAPHIC SURVEY" 477 HARRIS ROAD

"GEOTECHNICAL INVESTIGATIONS" 477 HARRIS ROAD

SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND

EXISTING ZONING:

EXISTING ADDRESS: 477 HARRIS ROAD HAYWARD, CALIFORNIA

PROPERTY OWNER/DEVELOPER

LAND SUBDIVIDER:

DAVID CAI AND DAPHNE JUN 477 HARRIS ROAD HAYWARD, CA, 94545 PHONE# (408) 888-6198

MICHAEL RYAN AIA **ARCHITECT:** 2539 LAKE ST #4

SAN FRANCISCO, CA 94121 PHONE# (415) 336-6937

TANIGUCHI LANDSCAPE ARCHITECTS **DENNIS TANIGUCHI** LANDSCAPE: 1013 SOUTH CLAREMONT ST., STE 1 SAN MATEO, CA 94402

PHONE# (650) 638-9985 **ROMIG ENGINEERS GEOTECHNICAL:**

TOM PORTER 1390 EL CAMINO REAL, 2ND FLOOR SAN CARLOS, CA 94070 PHONE# (650) 591-5224

LEA & BRAZE ENGINEERING, INC. 2495 INDUSTRIAL PARKWAY WEST CIVIL ENGINEER/ HAYWARD, CA 94545 SURVEYOR: PHONE: (510) 887-4086

UTILITIES/SERVICES

STORM DRAIN CITY OF HAYWARD CITY OF HAYWARD **SEWER** CITY OF HAYWARD WATER FIRE DEPARTMENT CITY OF HAYWARD PACIFIC GAS AND ELECTRIC (PG&E)

ELECTRIC PACIFIC GAS AND ELECTRIC (PG&E) COMCAST **PHONE**

AT&T

FLOOD ZONE INFORMATION

THE SITE SHOWN ON THIS PLAN LIES WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN FROM FEMA MAP NUMBER 06001C0289G, EFFECTIVE DATE AUGUST 3, 2009.

SHEET INDEX

PRELIMINARY TITLE SHEET PRELIMINARY LOT LAYOUT SITE PLAN PRELIMINARY GRADING, DRAINAGE

& UTILITY PLAN PRELIMINARY STORMWATER PLAN CLEAN BAY BLUEPRINT



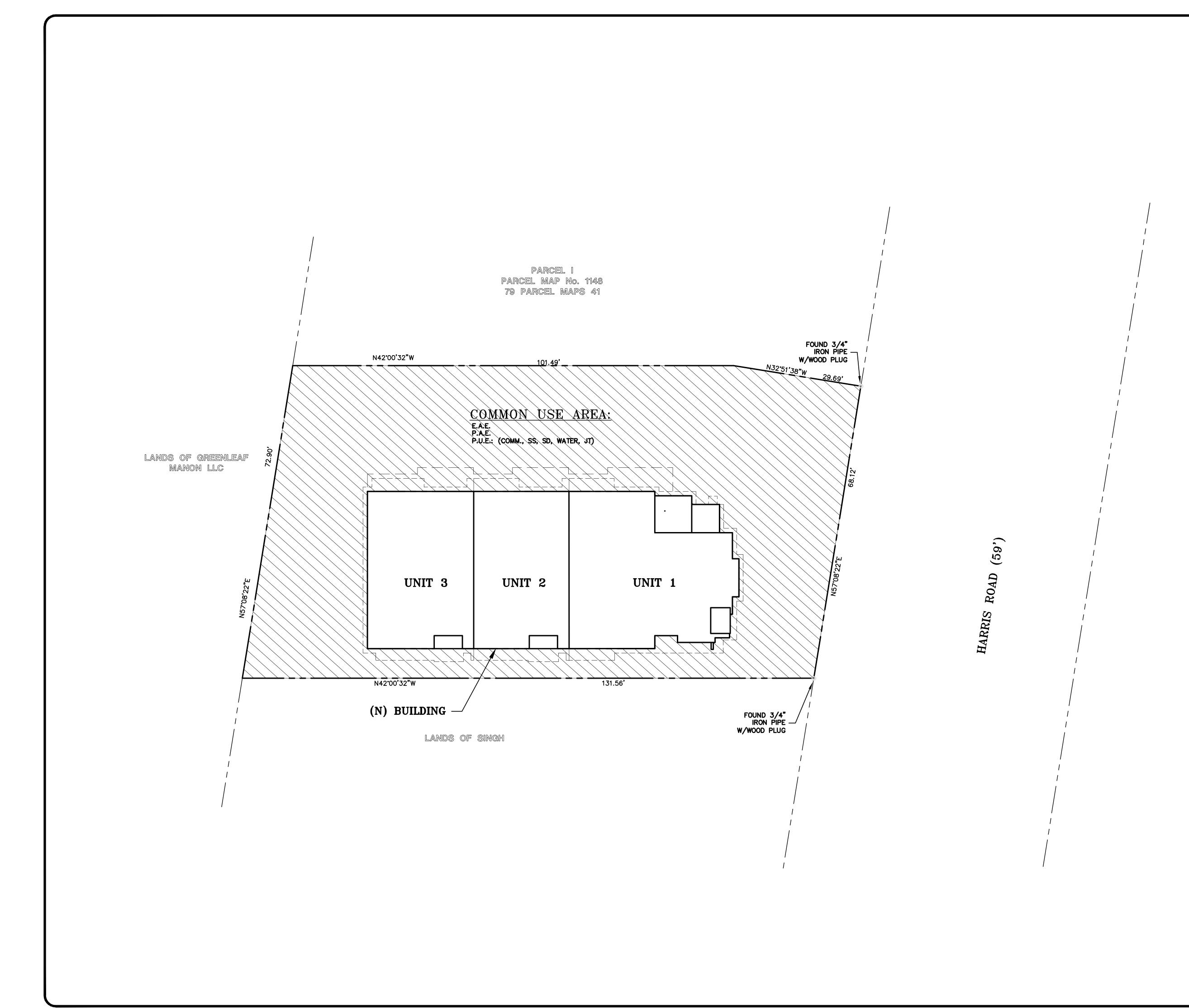
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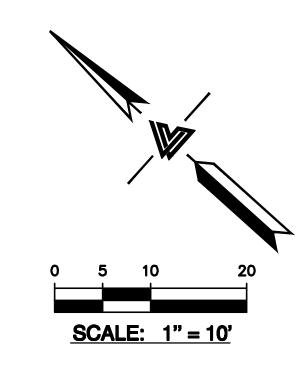
CITY COMMENTS 3-28-19 _____LANDSCAPE UPDATE MH <u>∕**2**</u>\1−16−20 CITY COMMENTS 7-6-21 CITY COMMENTS JV SITE/BUILDING REVISION REVISIONS 2181538

JOB NO: 2-20-19 AS NOTED SCALE: DESIGN BY: JC/JE

SHEET NO:

DRAWN BY: JE





LEGEND

E.A.E. EMERGENCY ACCESS EASEMENT P.A.E.: PRIVATE ACCESS EASEMENT P.U.E.: PRIVATE UTILITY EASEMENT

COMMON USE AREA PROPERTY BOUNDARY
BUILDING FOOTPRINT LINE
PROPERTY LINE

ABBREVIATIONS

LOT PLAN PRELIMINARY LAYOUT SITE

CITY COMMENTS

3-28-19

LANDSCAPE UPDATE

1-16-20

CITY COMMENTS

7-6-21

CITY COMMENTS

1-4-22

SITE/BUILDING REVISION

11-11-24

JE

MH

MH

JV

JV

JV

JV

JV

JV

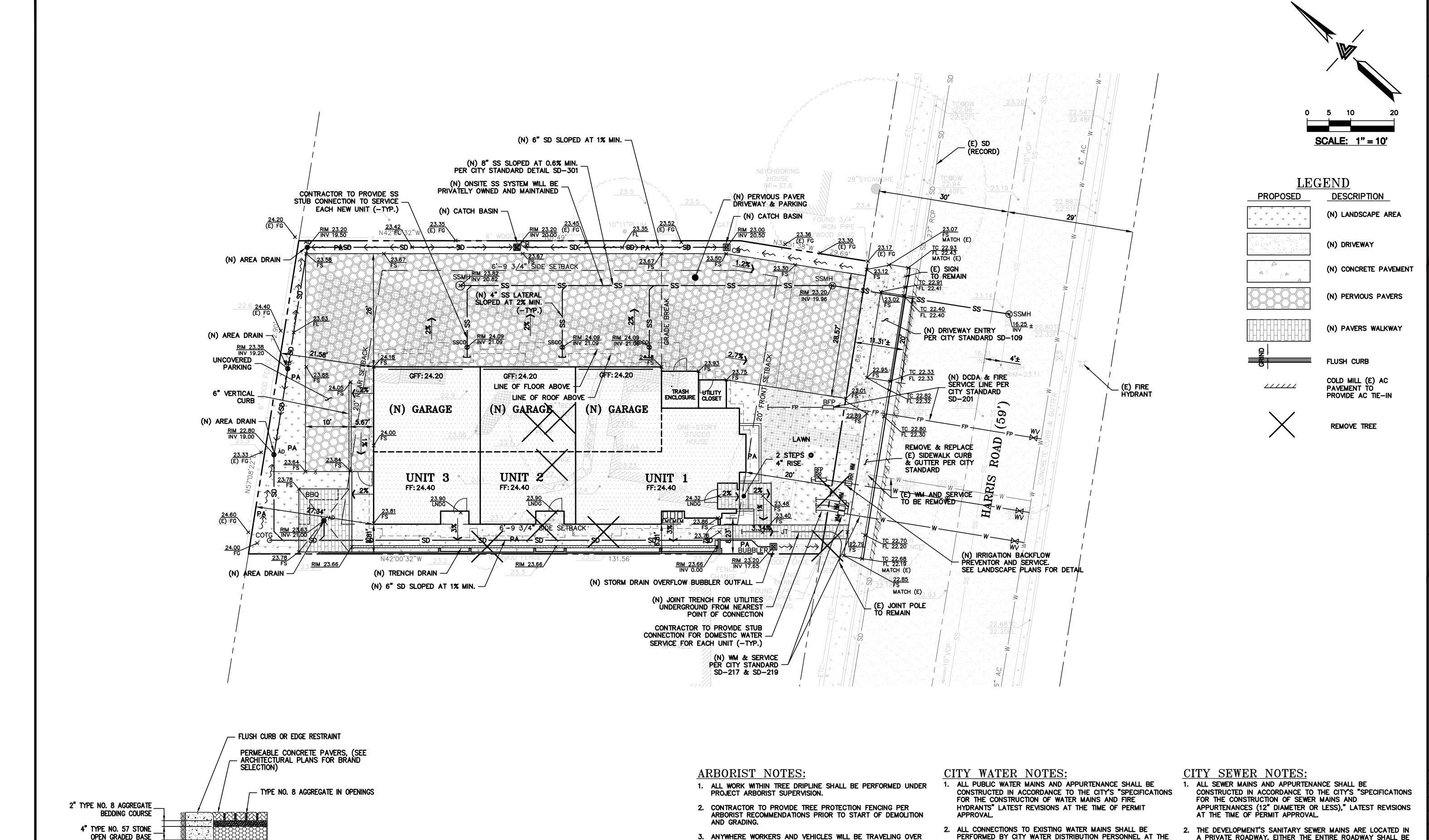
JV

JC **REVISIONS**

JOB NO: 2181538 2-20-19 SCALE: AS NOTED DESIGN BY: JC/JE

DRAWN BY: JE SHEET NO:

TM-2 2 OF 5 SHEETS



GEOTEXTILE FILTER FABRIC ON

BOTTOM AND SIDES. MIRAFI

140N OR AS SPECIFIED BY

NO COMPACTION OVER

ENGINEER

NATIVE SOIL

THE PROJECT GEOTECHNICAL

12" CLASS II_

NTS

COMPACT BASE AND AGGREGATE PER THE RECOMMENDATIONS CONTAINED IN THE SOILS REPORT

PERVIOUS PAVER DRIVEWAY

PERMEABLE AGGREGATE

4" DEEPENDED CURB PER

GEOTECH RECOMMENDATIONS

BARE GROUND WITHIN FIFTEEN (15) FEET OF A TREE'S DRIPLINE

ARBORIST, SHALL BE EXCAVATED BY HAND TO AVOID DAMAGE

SHOULD HAVE MATERIAL SUCH AS MULCH OR PLYWOOD OR

4. UTILITY TRENCHING WITHIN SIGNIFICANT TREES, AS NOTED BY

APPROVED EQUAL BY ARBORIST.

TO TREE ROOT SYSTEM.

MARK ON-SITE INLETS

WITH THE WORDS "NO

DUMPING! FLOW TO

BAY" OR EQUIVALENT

APPLICANT'S / DEVELOPER'S EXPENSE.

WATER MAINS.

3. ALL WATER SERVICES SHALL BE INSTALLED BY CITY WATER

EXPENSE. THE DEVELOPER MAY ONLY CONSTRUCT NEW

4. THE DEVELOPER IS REQUIRED TO PAY WATER FACILITIES FEES

MAINS AND WORK PERFORMED BY CITY FORCES.

AND INSTALLATION CHARGES FOR CONNECTIONS TO WATER

DISTRIBUTION PERSONNEL AT THE APPLICANT'S/DEVELOPER'S

SERVICES IN CONJUNCTION WITH THEIR CONSTRUCTION OF NEW

No. 63127

CIVIL

AMENTO REGION

AMENTO REGION

BOUGLAS BLVD, # 300

VILLE, CA 95661

916)966-1338

916)797-7363

ENGINEERS • LAND SURY SACRAMENTO RE: WY WEST 3017 DOUGLAS BL' IA 94545 ROSEVILLE, CA 9 86 (P) (916)966-13

BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
(P) (510) 887–4086
(F) (510) 887–3019

BAY AREA RE 2495 INDUSTRIV HAYWARD, CALI (P) (510) 887

ITUM VD RNIA

G LENTALIVE MA IT CONDOMINIUM HARRIS ROAD ARD, CALIFORNIA

VESTING TENT 3-UNIT CONI 477 HARRI

PRELIMINARY ADING, DRAINAGE UTILITY PLAN

CITY COMMENTS

3-28-19

LANDSCAPE UPDATE
MH

CITY COMMENTS
JV

SITE/BUILDING REVISION
JC

REVISIONS
BY

JOB NO: 2181538

DATE: 2-20-19

PUBLIC UTILITY EASEMENT OR A MINIMUM OF 10-FOOT WIDE

SANITARY SEWER LINE EASEMENT (SSLE) SHALL BE GRANTED

EACH DWELLING UNIT SHALL HAVE AN INDIVIDUAL SANITARY

SEWER CLEANOUT. EACH SANITARY SEWER LATERAL SHALL

4. THE DEVELOPER IS RESPONSIBLE FOR PAYMENT OF SEWER

APPLICATION FOR BUILDING PERMITS ARE SUBMITTED.

NEAREST UPSTREAM MANHOLE OR RISER.

HAVE AT LEAST ONCE CLEANOUT AND BE CONSTRUCTED PER

CONNECTION FEES AT THE CURRENT RATES AT THE TIME OF

5. BACKFLOW PREVENTION VALVES FOR SANITARY SEWERS SHALL

BE INSTALLED PER CITY STANDARD DETAIL SD-314 IF THE

LOWEST FIXTURE IN ANY BUILDING IS BELOW RIM ELEVATION OF

TO THE CITY.

CITY STANDARD DETAIL SD-312.

REVISIONS BY

JOB NO: 2181538

DATE: 2-20-19

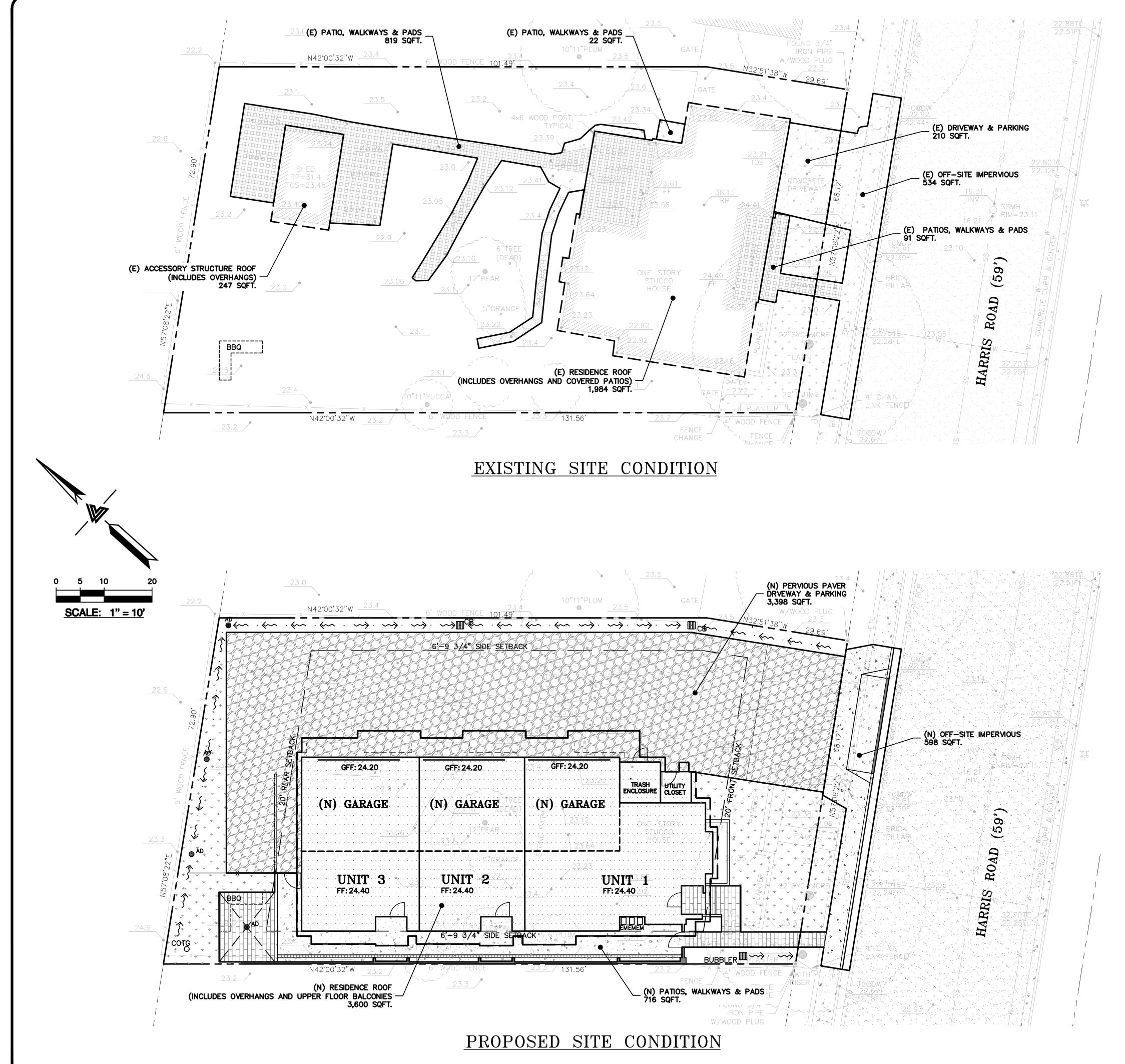
SCALE: AS NOTED

DESIGN BY: JC/JE

DRAWN BY: JE

SHEET NO:

TM-33 OF 5 SHEETS



STORMWATER REQUIREMENTS NOTES:

1. THE PROJECT WILL CREATE / REPLACE LESS THAN 5,000 SQFT. OF IMPERVIOUS SURFACE. THEREFORE, THIS IS NOT A PROVISION C.3 REGULATED PROJECT.

Stormwater Requirements Checklist Municipal Regional Stormwater Permit (MRP 3) Stormwater Controls for Development Projects

HAYWARD

I. Applicability C.3 Stormwater Requirements

All projects must complete Section I.

I.A. Enter Project Data (Data for "C.3 Regulated Projects," will be reported in the municipality's stormwater Annual Report.) I.A.1 Project Name: David Cai Apartments I.A.2 Project Address 477 Harris Road / Manon Avenue (include cross street) I.A.3 Project APN(s) 453-0060-047 I.A.4 Project Watershed¹ Old Alameda Creek I.A.5 Applicant Name Lea & Braze Engineering, Inc. I.A.6 Date Submitted I.A.7 Applicant Address 2495 Industrial Parkway West, Hayward, CA (510) 887-4086 I.A.9 Applicant E-mail Address jchiu@leabraze.com I.A.8 Applicant Phone I.A.10 Development Type (check ■ Residential □ Commercial □ Industrial □ Mixed-Use □ Streets, Roads, etc. all that apply) ☐ Detached Single Family Home ☐ Redevelopment² I.A.11 Project Description New multi-family residential development with appurtenant (Include any past or future phase of site improvements. the project)

I.A.12 Total Project Area	0.216	I.A.13 % Slope on Site	3%	
I.A.14 Total Land Disturbance Area (Include all areas to be cleared, excaund borrow and stockpile areas)	avated, graded,	0.23 acres	·	

I.B. Is the project a "C.3 Regulated Project" per MRP Provision C.3.b or a Small Project per MRP Provision C.3.i I.B.1 Complete the Impervious and Pervious Surfaces Table

ner complete the impervious and reviews currents								
	а	b	С	d				
Type of Impervious Surface ³	Pre-Project Impervious Area (sq ft)	Existing Impervious Area to be Replaced (sq ft ⁴)	New Impervious Area to be Created (sq ft)	Post-Project Pervious Area (sq ft)				
a. Impervious roof area(s) ⁵	2,231	2,657	943					
b. Impervious sidewalks, patios, paths, driveways ⁶	1,142	716	0					
c. Uncovered impervious parking ⁷	0	0	0	NA				

 ${}^{1}\text{Watershed is defined by the maps from the Alameda County Flood Control District at } \underline{\text{http://acfloodcontrol.org/resources/explore-watersheds}}$

² As defined by MRP: creating, adding and/or replacing exterior existing impervious surface on a site where past development has occurred. ³ A surface covering or pavement of a developed parcel of land that prevents the land's natural ability to absorb and infiltrate rainfall/stormwater. ⁴ Replaced impervious area means any impervious area that is removed and replaced in kind or upgraded. See Chapter 2 of the *C.3 Technical*

Totals 3,907

⁵ Exclude green roofs.

Page **1** of **9**

d. Streets (public) e. Streets (private)

⁶ A gravel surface is an impervious surface, except when it is constructed as part of appropriately designed pervious pavement system. Uncovered parking includes top level of a parking structure unless drainage from the uncovered portion is connected to the sanitary sewer along with the covered portions of the parking structure.

3,907

1,007

5,252

February 2024

SITE DEVELOPMENT INFORMATION

PARCEL AREA	9,398 SQUARE	FEET (0.216 A	CRE)	
GROSS PROJECT AREA	10,166 SQUARE	FEET (0.233 A	CRE)	
TOTAL DISTURBED AREA	10,166 SQUARE	FEET (0.233 A	CRE)	
IMPERVIOUS SURFACE	EXISTING TOTAL S.F.	REMOVED TOTAL S.F.	NEW TOTAL S.F.	PROPOSED TOTAL S.F.
RESIDENCE ROOF* ACCESSORY STRUCTURE ROOF* IMPERVIOUS DRIVEWAY & PARKING PATIOS, WALKWAYS & PADS OFF-SITE IMPERVIOUS	1,984 247 210 932 534	1,984 247 210 932 534	3,600 0 0 716 598	3,600 0 0 716 598
TOTAL IMPERVIOUS AREA	3,907	3,907	4,914	4,914
NET CHANGE IN IMPERVIOUS AREA	+ 1,007 SQUAR	FEET (NET INC	REASE)	
PERVIOUS PAVING				
PERVIOUS PAVER DRIVEWAY & PARKING	0	0	3,398	3,398
NET CHANGE IN PERVIOUS PAVING	+ 3,398 SQUARE	FEET (NET INC	REASE)	
TOTAL DEVELOPED AREA	3,907	3,907	8,312	8,312
NET CHANGE IN DEVELOPED AREA	+ 4,405 SQUARE	FEET (NET INC	REASE)	
LANDSCAPE	6,254			1,854

^{*} HARDSCAPE BELOW ROOFS, BALCONIES, AND OVERHANGS INCLUDED IN ROOF AREA



'ESTING 3-UNIT 477 H

ER IMP]

CITY COMMENTS JE
3-28-19
LANDSCAPE UPDATE MH SITE/BUILDING REVISION 11-11-24 REVISIONS JOB NO: 2181538 2-20-19 SCALE: AS NOTED DESIGN BY: JC/JE

DRAWN BY: JE

Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution and damage to creeks and the San

and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local

creeks. Following these guidelines and the project specifications will ensure your compliance with City of

Francisco Bay. Construction activities can directly affect the health of creeks and the Bay unless contractors

Materials storage & spill cleanup

Non-hazardous materials management

- Sand, dirt, and similar materials must be stored at least 10 feet (3 meters) from catch basins. All construction material must be covered with a tarp and contained with a perimeter control during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control as needed.
- ✓ Sweep or vacuum streets and other paved areas daily. Do not wash down streets or work areas with water!
- Recycle all asphalt, concrete, and aggregate base material from demolition activities. Comply with City of Fremont Ordinances for recycling construction materials, wood, gyp board, pipe, etc.
- Check dumpsters regularly for leaks and to make sure they are not overfilled. Repair or replace leaking dumpsters promptly.
- Cover all dumpsters with a tarp at the end of every work day or during wet weather.

Hazardous materials management

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state, and federal regulations.
- ✓ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecasted.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecasted within 24 hours.
- → Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- ✓ Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at
 the construction site at all times.
- When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain.

 Never wash spilled material into a gutter, street, storm drain, or creek!
- Dispose of all containment and cleanup materials properly.
- Report any hazardous materials spills immediately! Dial 911

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ✓ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking.

Vehicle and equipment

maintenance & cleaning

Hayward requirements.

- ✓ Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks
- until repairs are made; repair leaks promptly.

 Fuel and maintain vehicles on site only

in a bermed area or over a drip pan that

- is big enough to prevent runoff.

 If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets,
- storm drains, or creeks.

 Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.



Earthwork & contaminated soils

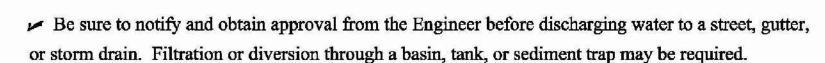
- ► Keep excavated soil on the site where it will not collect in the street.
- Transfer to dump trucks should take place on the site, not in the street.
- ✓ Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.



- ✓ Earth moving activities are only allowed during dry weather by permit and as approved by the City Inspector in the Field.
- Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.
- ✓ If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Engineer for help in determining what should be done, and manage disposal of entaminated soil according to their instructions.

Dewatering operations

- Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance.
- Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.

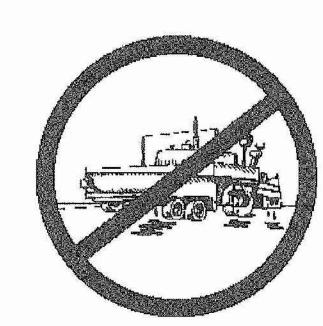


In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine what testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Saw cutting

- Always completely cover or barricade storm drain inlets when saw cutting. Use
- filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is
- If saw cut slurry enters a catch basin, clean it up immediately.

Paving/asphalt work



- Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- ▶ Protect gutters, ditches, and drainage courses
- with sand/gravel bags, or earthen berms.

 Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- ✓ Do not use water to wash down fresh asphalt concrete pavement.

Concrete, grout, and mortar storage & waste disposal

- ✓ Store concrete, grout, and mortar under cover, on pallets, and away from drainage areas. These materials must never reach a storm drain.
- ✓ Wash out concrete equipment/trucks off-site or into contained washout areas that will not allow discharge of wash water onto the underlying soil or onto the surrounding areas.



Follect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal off site.

Painting

- ► Never rinse paint brushes or
- materials in a gutter or street!

 Paint out excess water-based paint before rinsing brushes,

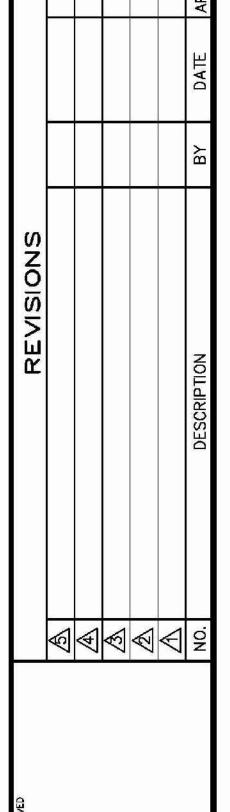
rollers, or containers in a sink.

- Paint out excess oil-based paint before cleaning brushes in thinner.
 Filter paint thinners and solvents for reuse whenever possible.
- Dispose of oil-based paint sludge and unusable thinner as hazardous waste.

Landscape Materials

- Contain, cover, and store on pallets all stockpiled landscape materials (mulch, compost, fertilizers, etc.) during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Discontinue the application of any erodible landscape material within 2 days of forecasted rain and during wet weather.

For references and more detailed information: www.cleanwaterprogram.org www.cabmphandbooks.com



	DATE ADV DATE
	q

CLEAN BAY BLUE PRINT

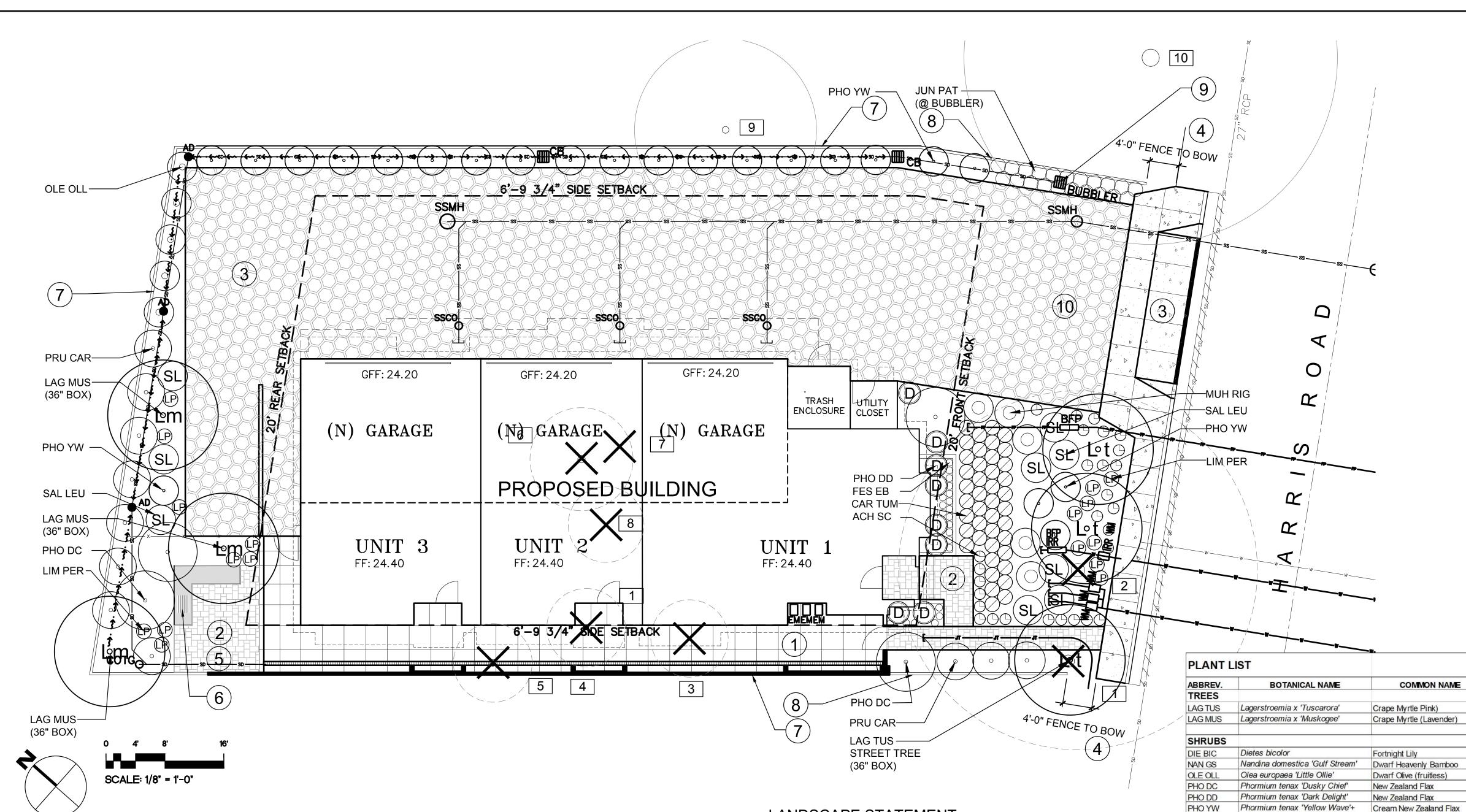
WORK ORDER NO.

SPECIFICATION NO.

SHEET NG.

BMP-1

Storm drain polluters may be liable for fines of \$10,000 or more per day!

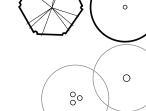


LEGEND

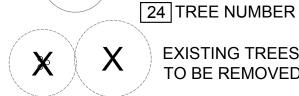
SHRUB AND GROUNDCOVER AREA



PROPOSED TREES



EXISTING TREES TO REMAIN



EXISTING TREES TO BE REMOVED

KEY NOTES

- PROPOSED CONCRETE PAVING
- PROPOSED STAMPED CONCRETE PAVING
- DRIVEWAY
- CITY SIDEWALK (EXIST)
- **SEATING AREA**

36" Box Hi. Br./SL/Match

36"Box Hi. Br./SL/Match

1 G.C.

5 G.C

5 G.C.

1 G.C. F & B

5 G.C F & B

Crape Myrtle Pink)

Fortnight Lily

Nandina domestica 'Gulf Stream' Dwarf Heavenly Bamboo

Dietes bicolor

Olea europaea 'Little Ollie'

Phormium tenax 'Dusky Chief'

Phormium tenax 'Dark Delight'

Crape Myrtle (Lavender)

Dwarf Olive (fruitless)

New Zealand Flax

New Zealand Flax

- FENCE--6 FT WOOD, SEE DETAIL 4/L-3. TRANSITIONS TO 4 FT HIGH AT 20' FRONT
- FENCE HEIGHT TRANSITION POINT
- "BUBBLER" REFER TO CIVIL ENGINEER'S STORM DRAIN PLAN
- PERMEABLE PRECAST CONCRETE PAVERS--SEE CIVIL ENGINEER'S PLAN

SIZE MISC. NOTES & REQUIREMENTS MATURE PLANT HT X SP SPACING WUCOLS

20' x15'

20' x15'

2'-3' x 2'-3'

3' x 3'

4'-6' x 4'-6'

4'-8' x 4'-8'

3'-4' x 3'-4'

varies (>17')

2.5'

3.5'

5'

varies (>14')

2.75' L

varies (>15') L

LANDSCAPE STATEMENT

I HAVE COMPLIED WITH THE CRITERIA OF THE CITY OF HAYWARD BAY-FRIENDLY WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN.

FOR EXISTING TREES REFER TO: Existing Tree Summary "ARBORIST REPORT TREE REMOVAL & PROTECTION PLAN" DATED NOVEMBER 19, 2021. PREPARED FOR **HUITING (DAVID) CAI & JUN** (DAPHNE) SHEN, SITE ADDRESS: 477 HARRIS RD. HAYWARD, CA 94544 BY BO FIRESTONE TREES & GARDENS, CERTIFIED ARBORIST #WE-8525A.

Number	Tree species/Common Name	Trunk Diameter (DBH)	Height (feet)	Spread (feet)	Disposition
1	Washingtonia robusta / Palm	20"	15'	no canopy	Remove stump/topped at 8'/dead
2	Platanus acerifolia/Sycamore	22"	25'	40'	Remove
3	Prunus sp./Plum	5", 6"	6'	8'	Remove
4	Citrus x Lemon/Lemon	3", 4"	8'	6'	Remove
5	Yucca sp./Yucca	10", 11"	12'	6'	Remove
6	Pyrus sp./Pear	12"	12'	14'	Remove
7	Dead tree	6"	8'	8'	Remove
8	Citrus x Orange/Orange	5"	8'	6'	Remove
9	Prunus sp./Plum	10", 12"	12'	25'	Retain (neighbor's tree)
10	Platanus acerifolia/Sycamore	28"	30'	45'	Retain (neighbor's tree)

BALANCE

\$3,260.00

Required Trees	Required tree quantity/size/installed unit cost	Proposed tree quantity/size/installed unit cost	Unit Cost Difference (Proposed size- required size)	MITIGATION VALUE	Project Notes
Street Trees	(3) 24" box @ \$300.00 (per project notes)	(3) 36" box@\$750.00 ea	\$450.00	\$2,250.00	68 linear feet of frontagetrees @ 20 - 40 LF OC (ex large tree, utilities) = 1.7 to 3.4 trees
Parking Lot Trees	0	0 (no parking lot)	\$ -	\$ -	tuckunder parking- no parking lot
Screening Trees (at N PL)	0	(3) 36" box @\$750.00	\$ -	\$2,250.00	
Additional Trees for Mitigation (courtyards)	0	0	\$ -	\$0.00	no courtyard(s)
			TOTAL	\$4,500.00	
			MITIGATION GOAL	\$ 7,760.00	(arborist report)

NOTES:

1. SOIL TO BE AMENDED BASED ON SOIL FERTILITY TEST AFTER SITE MASS GRADING. A SOIL ANALYSIS REPORT SHALL BE INCLUDED FOR AMENDING THE SOIL WITH ORGANIC COMPOST TO BRING THE SOIL ORGANIC MATTER TO A MINIMUM OF 5% BY DRY WEIGHT AND INCORPORATING ORGANIC FERTILIZERS TO RECOMMENDED LEVELS FOR PLANTING AREAS. THE SOIL ANALYSIS REPORT SHALL BE SUBMITTED WITH THE LANDSCAPE CERTIFICATE OF COMPLETION.

3. MULCH TO BE ORGANIC RECYCLED CHIPPED WOOD IN DARK BROWN COLOR, MINIMUM 3 INCHES DEEP. MAXIMUM SIZE OF MULCH CHIPS IS 1-1/2 INCHES. IN ALL PLANTING AREAS EXCEPT ANY ALLOWED LAWN AREAS.

4. SEE SHEETS L-2A AND L-2B, IRRIGATION HYDROZONE PLANS FOR CONCEPTUAL IRRIGATION APPROACH, IRRIGATION STANDARDS, AND WATER USE.

5. SEE SHEET L-3 FOR PLANTING DETAILS.

	Prioritiditi teriax Dark Deligit	New Zealand Flax	J G.C.		3-4 X 3-4	2.13		I ISSUE: [
PHO YW	Phormium tenax 'Yellow Wave'+	Cream New Zealand Flax	5 G.C.	Match	3'-4' x 3'-4'	4'	L	1
SAL LEU	Salvia leucantha	Mexican Bush Sage	1 G.C.	F & B/N. Drp. Br.	3'-4' x 4'-5'	varies	L	2 F 3 F
PERENNIA	ALS/BULBS/ANNUALS							4 F
ACH SC	Achillea millefolium 'Sonoma Coast'	Common Varrow	1 G.C.		1.5' x 2'	varies (2')	ı	1
LIM PER	Limonium perezii	Sea Lavender	1 G.C.		1.5' x1.5'			11
	Muhlenbergia rigens	S.				2', varies	L	il F
MUH RIG	wumenbergia rigens	Deer Grass	1 G.C.		4'-5' x 4'-6'	varies (4')	L	
GROUND	COVERS							
CAR TUM	Carex tumicola	Berkeley Sedge	1 G.C.	Plant at 24" o.c.	1.3' x 1.3'	2'	L	1
FES EB	Festuca ovina 'Elijah Blue'	Blue Fescue	1 G.C.	Plant at 12" o.c.	<1' x 1'-2'	13"	L	!
SEDGE				1				1
JUN PAT	Juncus patens	California Grey Rush	1 G.C.	Plant at 15" o.c.	1'-2' x 1'-2'	2.5'	L] [
	um t. hybrids must be accompanied by to owner and landscape architect. Pro							
DI ANIT LI	OT ADDDEL/(ATIONS							
	ST ABBREVIATIONS:				1.13			
Note:	This list together with the plant list pre	epared by Taniguchi Landscape	Architecture m	ust accompany the contractor's	nursery order(s)			
SL	Single main, straight, dominant, leade	er						
Hi. Br.	High branched—lowest limbs held ab	ove rootball 5' min. for 15 gallon	can 6' min. for	24" box trees				
No Top	No topping or pruning of upper brand							
Br. Gr.	Branched to ground							
F&B	Full dense, bushy, vigorous plants, w	ith voung growth closely spaced	on branches, r	no old/woody plants.				
	eg. Narrow upright vase shape 30 degree							
		es or less spread in branch/trunk						
N.V.S45 de	eu namow upmum vase snape 45 ueure							
		Select even symmetrical branc	n disiribulian					
No. Whorl. E	Br. No closely spaced whirled branches.			for guaranteed consistency th	nrough life of plants			SCALE:
No. Whorl. E	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir	ng and cultivar. Select from one	lot, one grower	, for guaranteed consistency th	nrough life of plants.			SCALE:
No. Whorl. E Match	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an	ng and cultivar. Select from one	lot, one grower	r, for guaranteed consistency th	nrough life of plants.			SCALE:
No. Whorl. E Match T.F.	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or ar Tree Form	ng and cultivar. Select from one	lot, one grower	, for guaranteed consistency the	nrough life of plants.			
No. Whorl. E Match T.F. S.F.	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form	ng and cultivar. Select from one	lot, one grower	, for guaranteed consistency th	nrough life of plants.			PROJEC
No. Whorl. E Match T.F. S.F. N.F.	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or are Tree Form Shrub Form Narrow upright Form	ng and cultivar. Select from one	lot, one grower	, for guaranteed consistency th	nrough life of plants.			PROJEC
No. Whorl. E Match T.F. S.F. N.F. B.R.	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form Narrow upright Form Bare Root	ng and cultivar. Select from one	lot, one grower	, for guaranteed consistency the	nrough life of plants.			PROJECT SHEET
No. Whorl. E Match T.F. S.F. N.F. B.R. B & B	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form Narrow upright Form Bare Root Balled and Burlap	ng and cultivar. Select from one	lot, one grower	, for guaranteed consistency the	nrough life of plants.			PROJECT SHEET
No. Whorl. E Match T.F. S.F. N.F. B.R. B & B Mult. St.	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form Narrow upright Form Bare Root Balled and Burlap Multi stemmed	ng and cultivar. Select from one ea are to be matched, unless no	lot, one grower ted otherwise.					PROJEC SHEET 1
No. Whorl. E Match T.F. S.F. N.F. B.R. B & B Mult. St. Flat	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form Narrow upright Form Bare Root Balled and Burlap Multi stemmed Rooted cuttings from flats at on center	ng and cultivar. Select from one ea are to be matched, unless no	lot, one grower ted otherwise.					PROJEC SHEET
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No. Whorl. E Match T.F. S.F. N.F. B.R. B & B Mult. St. Flat Cal. EV. G.C. N.C.N.	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form Narrow upright Form Bare Root Balled and Burlap Multi stemmed Rooted cuttings from flats at on center Caliper Evergreen Gallon Can No Common Name	ng and cultivar. Select from one ea are to be matched, unless no er distance specified in list. See	lot, one grower ted otherwise.					SHEET T
No. Whorl. E Match T.F. S.F. N.F. B.R. B & B Mult. St. Flat Cal. EV. G.C. N.C.N. Trail F	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form Narrow upright Form Bare Root Balled and Burlap Multi stemmed Rooted cuttings from flats at on center Caliper Evergreen Gallon Can No Common Name Select trailing Forms for prostrate gro	ng and cultivar. Select from one ea are to be matched, unless no er distance specified in list. See	lot, one grower ted otherwise.					SHEET S
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No. Whorl. E Match T.F. S.F. N.F. B.R. B & B Mult. St. Flat Cal. EV. G.C. N.C.N. Trail F Veg. Gr. Hed. F.	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form Narrow upright Form Bare Root Balled and Burlap Multi stemmed Rooted cuttings from flats at on center Caliper Evergreen Gallon Can No Common Name Select trailing Forms for prostrate grovegetative Grown Hedge Form (clipped)	ng and cultivar. Select from one ea are to be matched, unless no er distance specified in list. See	lot, one grower ted otherwise.					SHEET TO SEL
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No. Whorl. E Match T.F. S.F. N.F. B.R. B & B Mult. St. Flat Cal. EV. G.C. N.C.N. Trail F Veg. Gr. Hed. F.	Br. No closely spaced whirled branches. Matched size, form, caliper, branchir In general plants within a group or an Tree Form Shrub Form Narrow upright Form Bare Root Balled and Burlap Multi stemmed Rooted cuttings from flats at on center Caliper Evergreen Gallon Can No Common Name Select trailing Forms for prostrate grovegetative Grown Hedge Form (clipped)	ng and cultivar. Select from one ea are to be matched, unless no er distance specified in list. See	lot, one grower ted otherwise.					SCALE: PROJECT SHEET T S L SHEET N

HARRIS ROAD CONDOMINIUMS

477 Harris Road Hayward, CA 94544

rchitecture andscape ont St., Ste 1 aniguchi

ISSUE: DESCRIPTION: PLANNING SUBMITTAL 01/17/20 PLANNING RESUBMITTAL 06/08/21 PLANNING RESUBMITTAL 12/20/21 PLANNING RESUBMITTAL 04/07/23

> **PROGRESS** 11/27/2024

TLA#: 19023.000 DJECT NUMBER:

SCHEMATIC LANDSCAPE PLAN: FIRST FLOOR

©Copyright 2019 TANIGUCHI LANDSCAPE ARCHITECTURE



477 Harris Road

Hayward, CA

Architecture

Taniguchi Landscape / 1013 South Claremont St., Ste 1
San Mateo, CA 94402
v 650.638.9985 | f 650.638.9986

ISSUE: DESCRIPTION: 1 PLANNING SUBMITTAL 01/17/20 2 PLANNING RESUBMITTAL 06/08/21 3 PLANNING RESUBMITTAL 12/20/21 4 PLANNING RESUBMITTAL 04/07/23

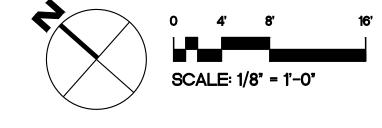
PROGRESS 11/27/2024

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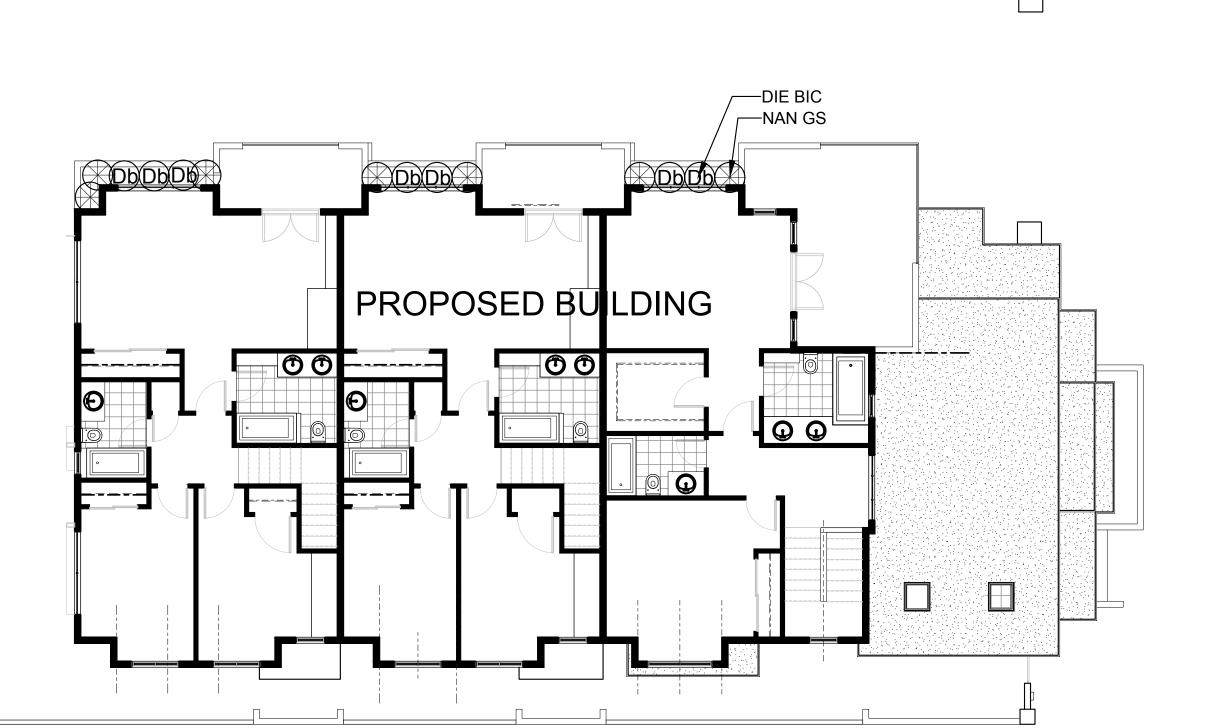
SCHEMATIC LANDSCAPE PLAN: SECOND AND THIRD FLOORS

L-1B

PROPOSED BUILDING



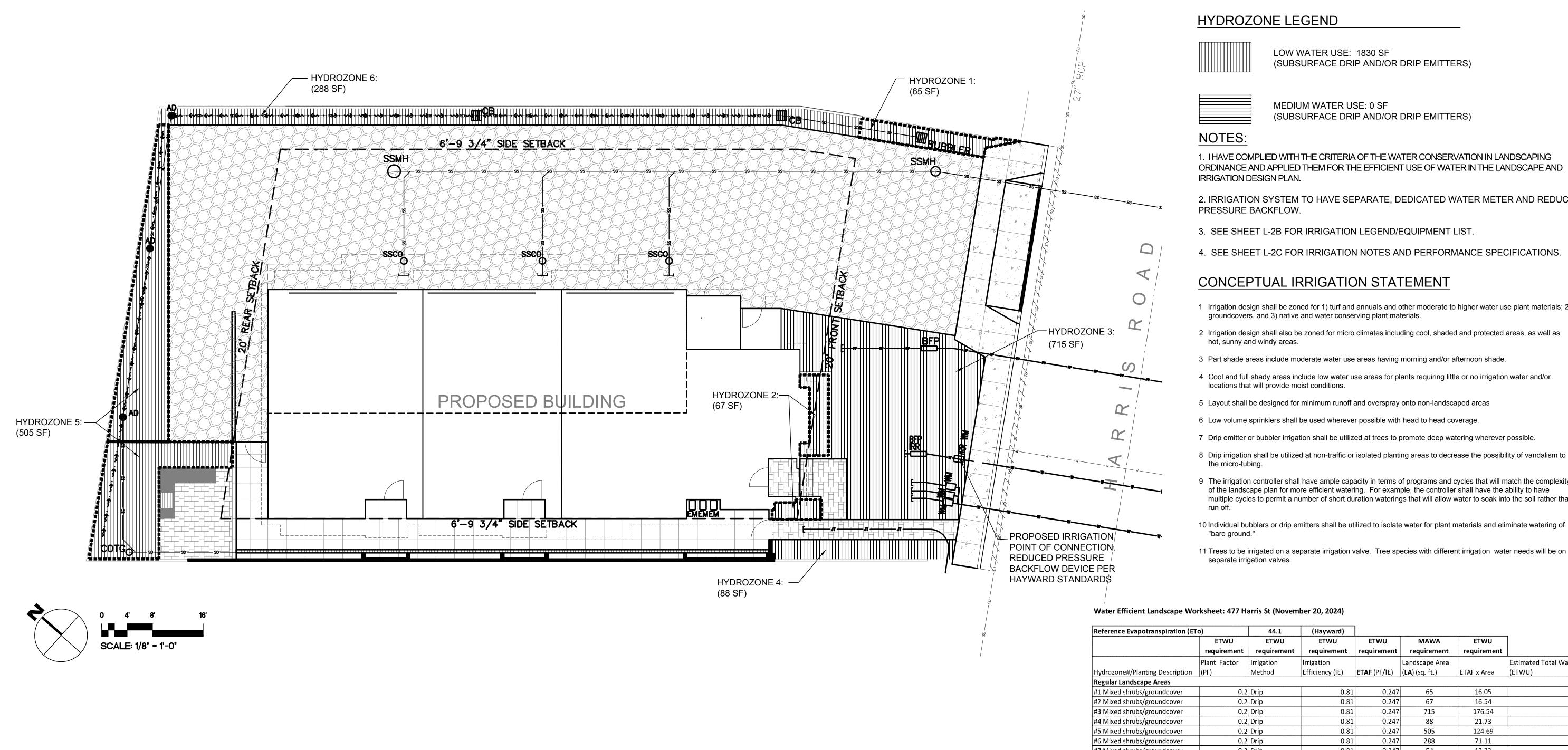
PLAN: SECOND FLOOR



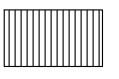
SCALE: 1/8" = 1'-0"

PLAN: THIRD FLOOR

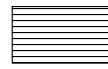
PROGRESS 11/26/2024



HYDROZONE LEGEND



LOW WATER USE: 1830 SF (SUBSURFACE DRIP AND/OR DRIP EMITTERS)



MEDIUM WATER USE: 0 SF (SUBSURFACE DRIP AND/OR DRIP EMITTERS)

NOTES:

1. I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION IN LANDSCAPING

2. IRRIGATION SYSTEM TO HAVE SEPARATE, DEDICATED WATER METER AND REDUCED PRESSURE BACKFLOW.

- 3. SEE SHEET L-2B FOR IRRIGATION LEGEND/EQUIPMENT LIST.
- 4. SEE SHEET L-2C FOR IRRIGATION NOTES AND PERFORMANCE SPECIFICATIONS.

CONCEPTUAL IRRIGATION STATEMENT

- 1 Irrigation design shall be zoned for 1) turf and annuals and other moderate to higher water use plant materials; 2) groundcovers, and 3) native and water conserving plant materials.
- 2 Irrigation design shall also be zoned for micro climates including cool, shaded and protected areas, as well as hot, sunny and windy areas.
- 3 Part shade areas include moderate water use areas having morning and/or afternoon shade.
- 4 Cool and full shady areas include low water use areas for plants requiring little or no irrigation water and/or locations that will provide moist conditions.
- 5 Layout shall be designed for minimum runoff and overspray onto non-landscaped areas
- 6 Low volume sprinklers shall be used wherever possible with head to head coverage.
- 7 Drip emitter or bubbler irrigation shall be utilized at trees to promote deep watering wherever possible.
- 8 Drip irrigation shall be utilized at non-traffic or isolated planting areas to decrease the possibility of vandalism to the micro-tubing.
- 9 The irrigation controller shall have ample capacity in terms of programs and cycles that will match the complexity of the landscape plan for more efficient watering. For example, the controller shall have the ability to have multiple cycles to permit a number of short duration waterings that will allow water to soak into the soil rather than
- 10 Individual bubblers or drip emitters shall be utilized to isolate water for plant materials and eliminate watering of
- 11 Trees to be irrigated on a separate irrigation valve. Tree species with different irrigation water needs will be on separate irrigation valves.

Water Efficient Landscape Worksheet: 477 Harris St (November 20, 2024)

Reference Evapotranspiration (ETo)		44.1	(Hayward)				
	ETWU requirement	ETWU requirement	ETWU requirement	ETWU requirement	MAWA requirement	ETWU requirement	
	Plant Factor	Irrigation	Irrigation		Landscape Area		Estimated Total Water Use
Hydrozone#/Planting Description	(PF)	Method	Efficiency (IE)	ETAF (PF/IE)	(LA) (sq. ft.)	ETAF x Area	(ETWU)
Regular Landscape Areas							
#1 Mixed shrubs/groundcover	0.2	Drip	0.81	0.247	65	16.05	439
#2 Mixed shrubs/groundcover	0.2	Drip	0.81	0.247	67	16.54	452
#3 Mixed shrubs/groundcover	0.2	Drip	0.81	0.247	715	176.54	4,827
#4 Mixed shrubs/groundcover	0.2	Drip	0.81	0.247	88	21.73	594
#5 Mixed shrubs/groundcover	0.2	Drip	0.81	0.247	505	124.69	3,409
#6 Mixed shrubs/groundcover	0.2	Drip	0.81	0.247	288	71.11	1,944
#7 Mixed shrubs/groundcover	0.2	Drip	0.81	0.247	54	13.33	365
#8 Mixed shrubs/groundcover	0.2	Drip	0.81	0.247	48	11.85	324
			Tota	als	1,830	451.85	12,355

		0	
		0	
		U	C
		0	C
		0	C
Totals	0	0	C
Estimated Total Water Use (ETWU)			12,355
Maximum Allowed Water Allowance (MAWA)			27,520
		Estimated Total Wa	Estimated Total Water Use (ETWU)

Plant Water Use Type	Plant Factor	Irrigation method	Irrigation Efficiency	
very low	0-0.1	overhead spray	0.75	
low	0.1-0.3	drip	0.81	
medium	0.4-0.6			
high	0.7-1.0			
MAWA (annual gallons allow	wed)= (Eto) (0.62) [(ET	AF x LA) + ((1-ETAF) x SLA)]	
		-		

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

ETAF Calculations

ETAI CUICUIUCIOTIS		
Regular Landscape Areas		
Total ETAF x Area	452	
Total Area	1,830	Average ETAF for regular landscape areas must be 0.55 or below for
Average ETAF	0.25	residential areas, and 0.45 or below for non-residential areas.

ewide ETAF	0.25
tal Area	1,830
tal ETAF x Area	452
Landscape Areas	

HARRIS ROAD CONDOMINIUMS

> 477 Harris Road Hayward, CA

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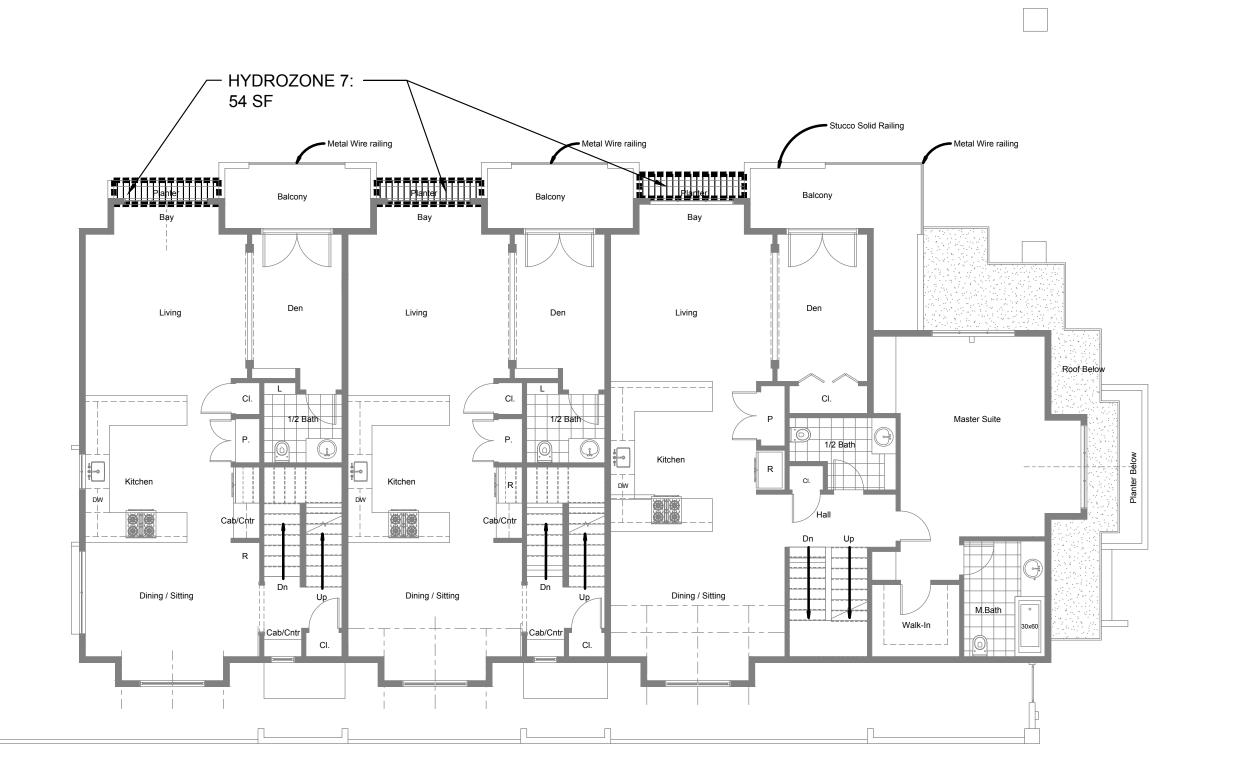
ISSUE: DESCRIPTION: PLANNING RESUBMITTAL 06/08/21 PLANNING RESUBMITTAL 12/20/21 PLANNING RESUBMITTAL 04/07/23

PROGRESS 11/27/2024

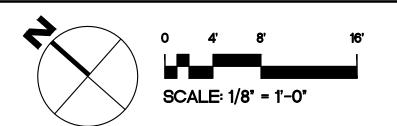
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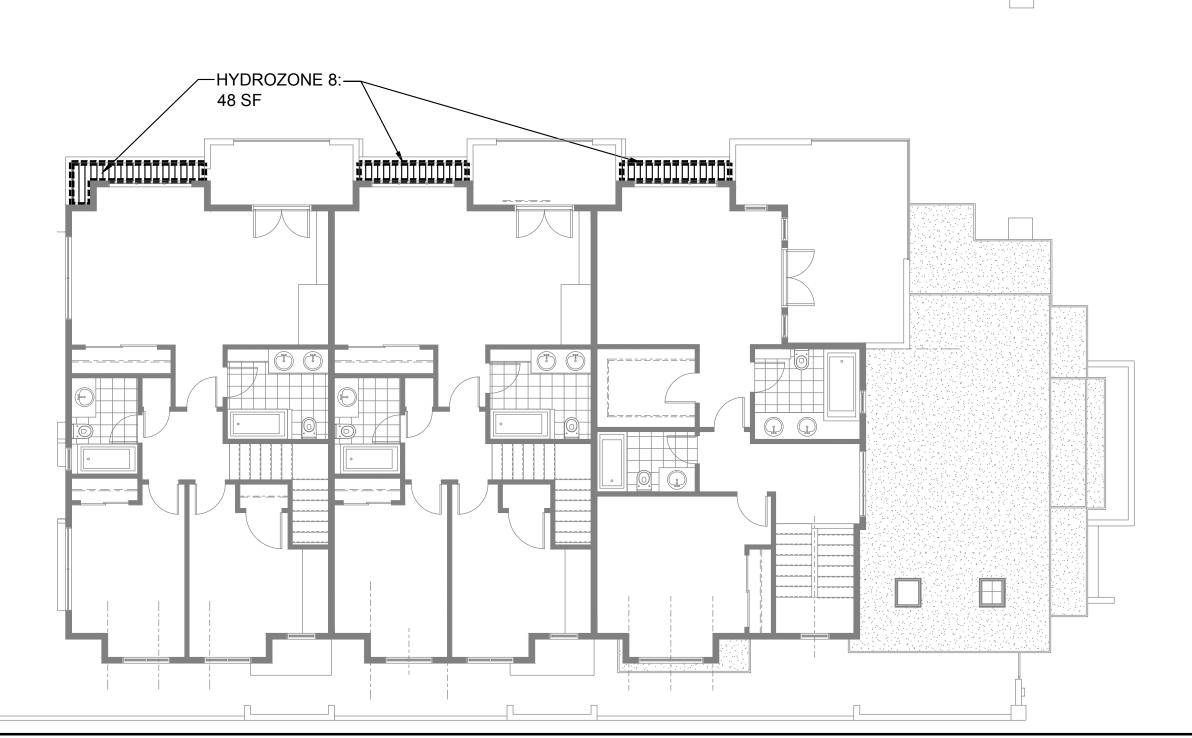
SHEET TITLE

IRRIGATION **HYDROZONE** PLAN: FIRST FLOOR

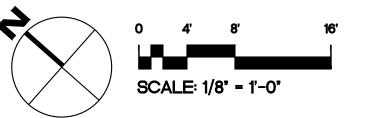


PLAN: SECOND FLOOR

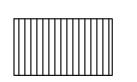




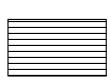
PLAN: THIRD FLOOR



HYDROZONE LEGEND



LOW WATER USE: 1762 SF (SUBSURFACE DRIP AND/OR DRIP EMITTERS)



MEDIUM WATER USE: 0 SF (SUBSURFACE DRIP AND/OR DRIP EMITTERS)

NOTES:

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

2. SEE SHEET L-3B FOR IRRIGATION NOTES AND PERFORMANCE SPECIFICATIONS.

IRRIGATION LEGEND (Proposed for future--components not shown on plan)

101 3110									
SYMBOL	MODEL NUMBER	DESCRIPTION	4	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)			
•	1401/RWS-B-C-1401		JBBLER AT TREE AND A RING SYSTEM	0.25	30	TRICKLE	477 Harris Hayward 9454		
•+	WLT-0500-T	NDS SCH 40	3404						
	OPERIND		RAIN BIRD DRIP ZONE INDICATOR						
•	PEB SERIES XCZ-100-PRB-LC	RAIN BIRD RE	Architecture						
*	33-DRC	RAIN BIRD 3/	RAIN BIRD REMOTE CONTROL VALVE DRIP ZONE KIT (3-20GPM) RAIN BIRD 3/4" TWO-PIECE QUICK COUPLING VALVE (YELLOW LOCKING RUBBER COVER)						
H	T-FP600A-LF-1"	NIBCO 1" BR	NIBCO 1" BRASS BALL VALVE						
SM	M70-100LNSX-HL	BADGER REC	BADGER RECORDALL 1" WATER METER						
	975XL2SEU-1.5"/ PBB-30	FREEZE BLAN	WILKINS REDUCED PRESSURE BACKFLOW ASSEMBLY WITH FREEZE BLANKET (PER CITY OF HAYWARD DETAIL). SUPERIOR MASTER VALVE-1" (NORMALLY OPEN)						
(M) (F)	3100100 HC-100-FLOW		SUPERIOR MASTER VALVE-1" (NORMALLY OPEN) HUNTER 1" FLOW METER (0.3-30 GPM)						
(C)	PHC-2400	HUNTER PRO	HUNTER PRO-HC HYDRAWISE CONTROLLER IN A PLASTIC WALL						
_	HC-PLAN-ENTHUSIAST	MOUNTED E	NCLOSURE. PRAWISE SOFTW	A DE			ape		
R	WR-CLIK		AIN-CLIK SENSOR		-R.		SC Ste		
	W K-CLIK				-1(.				
		FLOW (GPM	R AND STATION 1 1	NOINIDEK			and t St.		
) NTROL VALVE SIZ	E (IN INCHES)			La		
			REMOTE CONTR	,			chi Lal		
		CONTROLLER	R AND STATION I	NUMBER			aniguchi		
• •		·	AREA (SQ. FT.) FLOW (GPM)						
		REMOTE CON	3 S						
		ASSOCIATED							
		MAIN LINE:	1.5" AND SMAL	.LER:					
			1120-SCHEDUL SCHEDULE 40 F 18" COVER.						
		LATERAL LINE	E: 3/4" AND LARGE 1120-SCHEDUL SCHEDULE 40 F 12" COVER.	E 40 PVC PLA					
		- DRIPLINE LATERAL LINE	E: 3/4" AND LARG	GER:			ISSUE: DESCRIPTION: 1 PLANNING SUBMI		
			1120-SCHEDUL SCHEDULE 40 F 12" COVER.	E 40 PVC PLA			1 PLANNING SUBMI 2 PLANNING RESUB 3 PLANNING RESUB 4 PLANNING RESUB		
		SLEEVING:	SCHEDULE 40 FINDICATED IN S	SPECIFICATION	NS OR AS INDI		PROGF 11/27/2		
	STATION#			REMOTE CON					
	PVC LATERAL—	———	—— DRIP ZON	IE:					
	SUPPLY EXHAUST HEADER-	Г	INSERT FI' INSTALLEI	TTINGS, PART D 4" BELOW (#XFCV-06-12 GRADE IN A 12				
	/		FOLLOW	S: 1": 0-10 GI	PM, 1.25": 11-				
Ц			40 FLEXIB	LE PVC. USE S	SCH. 40 PVC S	40 PVC OR 1" SCH OLVENT WELD			
	ZONE — DRIP ZONE EXTENTS	=_/	DRIP ZON	IES TO BALAN	HEADERS TO TOTAL TO THE REPORT OF THE REPORT				
	STATION #								
	PVC LATERAL	DRIPLINE REMOTE CONTROL VALVE APPROXIMATE CONNECTION POINT BETWEEN DRIPLINE					SCALE:		
						P ZONE IS LESS EXHUST HEADERS	PROJECT NUMBER:		
	LOR HATCH DRIP ZONE	_	ARE NEED		DRIPLINE TUBI	NG CONNECTION	SHEET TITLE IRRIGA		
	ZONE — EXTENTS -		DETAILT	A MORE IN	ZMATION.		HYDRO		

PROGRESS 11/26/2024

HARRIS ROAD CONDOMINIUMS

477 Harris Road Hayward, CA

E: DESCRIPTION: PLANNING SUBMITTAL 01/17/20 PLANNING RESUBMITTAL 06/08/21 PLANNING RESUBMITTAL 12/20/21 PLANNING RESUBMITTAL 04/07/23

PROGRESS

11/27/2024

IRRIGATION HYDROZONE PLAN: SECOND AND THIRD FLOORS

IRRIGATION NOTES AND PERFORMANCE SPECIFICATIONS

- 1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.
- 3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.
- 4. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.
- 5. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.
- 6. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE STUB-OUT TO THE CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.
- 7. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.
- 8. INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS.
- 9. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.
- 10. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICES SHALL BE MADE WITH 3M-DBY SEAL PACKS OR APPROVED EQUAL.
- 11. INSTALL TWO SPARE CONTROL WIRES OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
- 12. SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO

NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEEVING OR CONDUIT.

- 13. INSTALL BLACK PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION CONTROL VALVE". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.
- 14. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.
- 15. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS.
- 16. THE CONTRACTOR SHALL LABEL CONTROL LINE WIRE AT EACH REMOTE CONTROL VALVE WITH A 2 1/4" X 2 3/4" POLYURETHANE I.D. TAG, INDICATING IDENTIFICATION NUMBER OF VALVE (CONTROLLER AND STATION NUMBER), ATTACH LABEL TO CONTROL WIRE. THE CONTRACTOR SHALL PERMANENTLY STAMP ALL VALVE BOX LIDS WITH APPROPRIATE IDENTIFICATION AS NOTED IN CONSTRUCTION DETAILS.
- 17. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.
- 18. LOCATE EMITTER OUTLETS ON UPHILL SIDE OF PLANT OR TREE.
- 19. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.
- 20. INSTALL A HUNTER HCV SERIES, KBI CV SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.
- 21. NOTIFY LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- 22. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 23. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.
- 24. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.
- 25. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.
- 26. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN THE IRRIGATION LAYOUT AND VALVE ZONING DUE TO VARIATIONS IN THE EXISTING SITE CONDITIONS SUCH AS EXPOSURE FROM BUILDINGS, TRELLISES, TREES, ETC., AS WELL AS SLOPE AND SOIL CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF THE PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
- 27. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE IRRIGATION SYSTEM DESIGN IF THE PLANTING DESIGN CHANGES FROM THE ORIGINAL PLAN AND NEEDS TO ADAPT TO THE NEW PLANTING DESIGN. THE LANDSCAPE CONTRACTOR NEEDS TO NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.
- 29. VERIFY LOCATIONS OF ALL IRRIGATION COMPONENTS INSTALLED WITHIN A VALVE BOX WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL UNTIL LANDSCAPE ARCHITECT PROVIDES ACCEPTABLE LOCATIONS.

PROGRESS 11/26/2024

HARRIS ROAD CONDOMINIUMS

> 477 Harris Road Hayward, CA 94544

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SSUE: DESCRIPTION: PLANNING SUBMITTAL 01/17/20 PLANNING RESUBMITTAL 06/08/21 PLANNING RESUBMITTAL 12/20/21 PLANNING RESUBMITTAL 04/07/23

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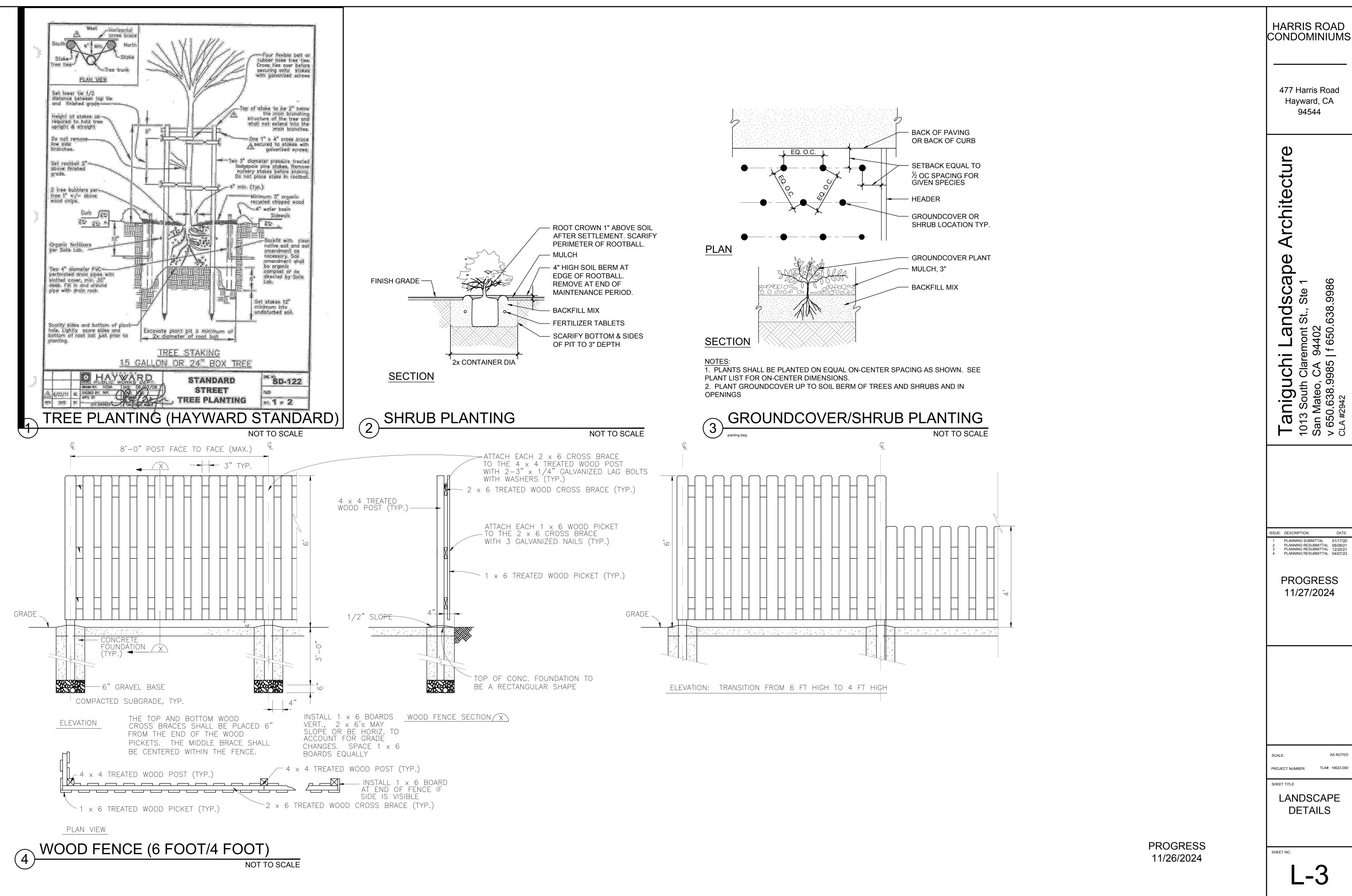
PROGRESS 11/27/2024

AS NOTED TLA#: 19023.000 PROJECT NUMBER:

SHEET TITLE

IRRIGATION NOTES AND SPECIFICATIONS

SHEET NO.



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