# HABITAT EBSV - AFFORDABLE HOUSING AT 98-100 CASTRO STREET, SAN LEANDRO ZONING PERMIT SET

## PROJECT DESCRIPTION

THIS PROJECT PROPOSES THE SUBDIVISION OF THE EXISTING VACANT LOT AT 98-100 CASTRO STREET INTO 3 SEPARATE PARCELS, INCLUDING EASEMENTS FOR INGRESS / EGRESS FOR THE BENEFIT OF ALL PARCELS. EACH PARCEL INCLUDES A SINGLE FAMILY RESIDENCE. MAINTENANCE AND RESPONSIBILITY FOR THE DRIVEWAY EASEMENT AND PARCEL 3 ACCESS EASEMENT SHALL BE ENCOMPASSED WITHIN THE FRAMEWORK OF THE DEVELOPMENT'S COVENANTS, CONDITIONS, AND RESTRICTIONS (CC&R).

ADDITIONALLY, ALL 3 UNITS WITHIN THE PROJECT SHALL BE BELOW MARKET RATE (BMR) UNITS.

THE INTENDED STRUCTURE FOR EACH UNIT IS TO USE INSULATED CONCRETE FORMS. THE CONCRETE USED WITHIN THE FORMS WILL USE A NEW AGGREGATE WHICH ABSORBS CARBON DIOXIDE IN IT'S CREATION, AND THE INSULATION OF THE FORMS THEMSELVES USE A BIO-MASS WITH A GREATLY REDUCED CARBON FOOTPRINT COMPARED TO ALTERNATIVES. THE PROJECT AIMS TO BE NET-ZERO, OR BETTER, IN ENERGY CONSUMPTION **AND** IN EMBODIED CARBON.

#### OCCUPANCY - R3

#### **CONSTRUCTION CLASSIFICATION - IIB**

THE WALLS PROPOSED WILL USE AN INSULATED CONCRETE FORM (ICF) SYSTEM, ALLOWING FOR 4" OR 8" THICK POURED-IN-PLACE REINFORCED CONCRETE STRUCTURE. PROPOSED FLOOR AND ROOF STRUCTURES WILL BY FRAMED WITH CONVENTIONAL AND ENGINEERED LUMBER.

#### FIRE SPRINKLER NOTE

FIRE SPRINKLER SYSTEM, IN COMPLIANCE WITH NFPA 13, TO BE INSTALLED IN ALL BUILDINGS

#### BUILDING DEPARTMENT NOTES

PLAN CHECK COMMENTS MADE 12/20/2022 HAVE BEEN RECEIVED AND NOTED. PLANS WILL COMPLY AT TIME OF BUILDING PERMIT SUBMITTAL

#### **DRAWING INDEX**

#### ARCHITECTURAL + CIVIL SHEETS

A010 TITLE SHEET, EXISTING SITE PLAN

TM-1 TITLE SHEET - CIVIL ENGINEERING TM-2 PRELIM. GRADING, DRAINAGE, UTILITY PLAN SU-1 TOPOGRAPHIC SURVEY

A020 SITE PLAN PROPOSED, ZONING INFORMATION A030 ARCHITECTURAL PARCEL DIVISION PLAN

A100 FLOOR PLANS - GROUND FLOOR A101 FLOOR PLANS - UPPER FLOOR

A103 ROOF PLANS A200 SECTIONS & ELEVATIONS

A201 SECTIONS & ELEVATIONS A210 STREET ELEVATION

A900 RENDERINGS A901 RENDERINGS

A902 RENDERINGS

A903 RENDERINGS A904 RENDERINGS

L0.0 WATER EFFICIENT LANDSCAPE ORDINANCE DOCUMENT'N

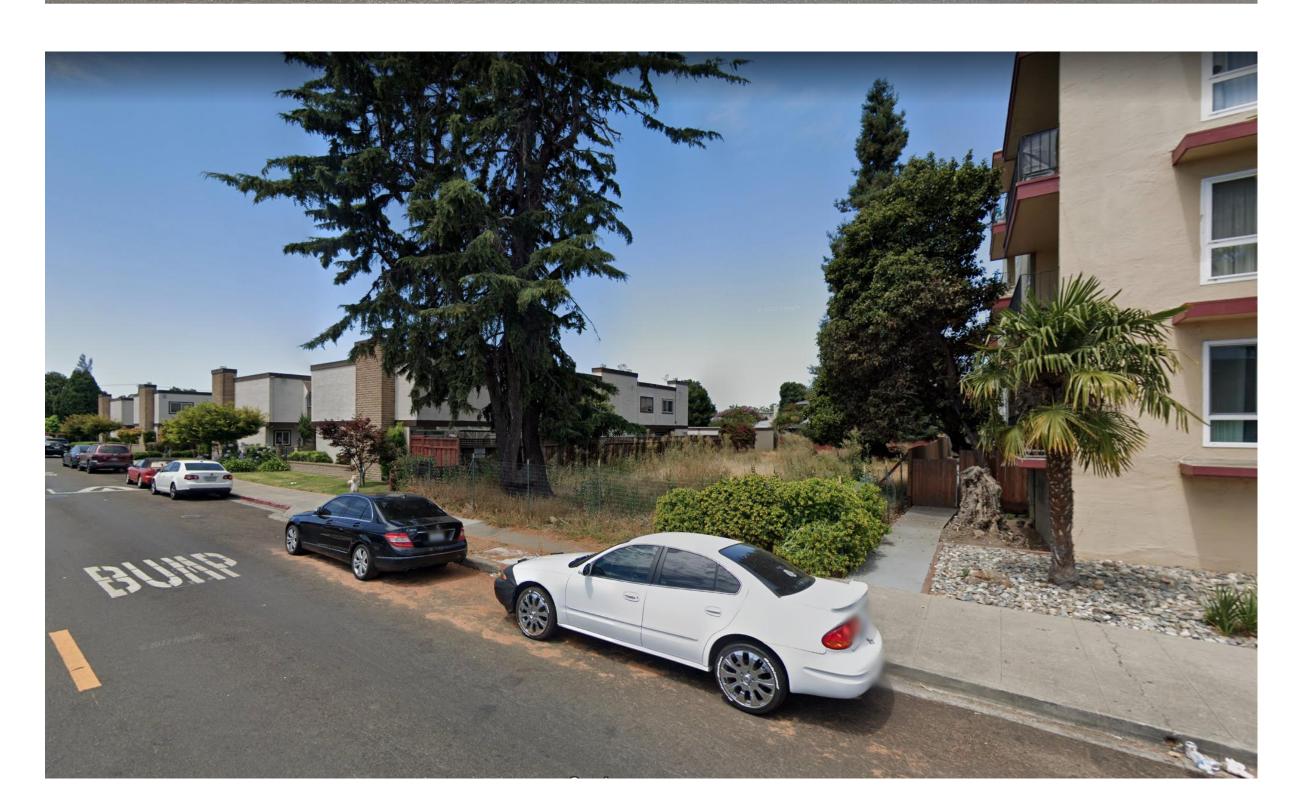
L1.0 PRELIMINARY TREE PROTECTION AND REMOVAL PLAN

L2.0 LANDSCAPE PLAN L3.0 IRRIGATION PLAN

L3.1 IRRIGATION LEGEND, NOTES, SCHEDULES

## **EXISTING SITE PHOTOS**





## **BUILDING PLANNING / ZONING**

#### SCOPE OF WORK

THIS PROJECT REQUESTS CONDITIONAL USE PERMIT FROM BZA FOR DIVIDING AN EXISTING PARCEL INTO 3 SINGLE FAMILY LOTS

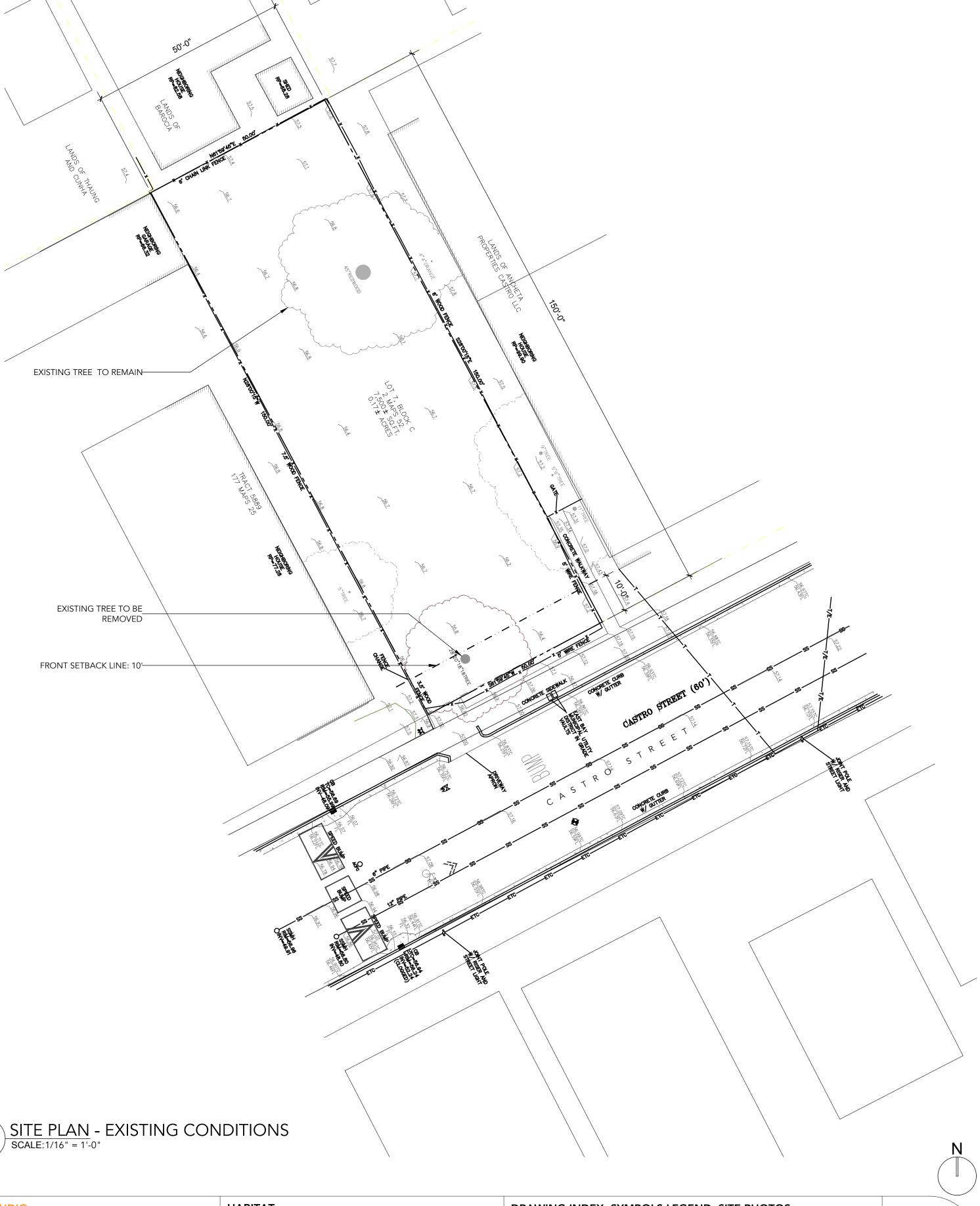
PROJECT SEEKS ADMINISTRATIVE SITE PLAN REVIEW

PROJECT SEEKS ADMINISTRATIVE EXCEPTION TO MINIMUM LOT SIZE

PROJECT SEEKS FENCE MODIFICATION FOR TRASH ENCLOSURE HEIGHTS ONLY

AFFORDABILITY: HOMES WILL BE BELOW MARKET RATE CAPPED AT 120% AMI

THIS PROJECT IS NOT SEEKING A DENSITY BONUS





RANGR STUDIO

1234 GRIZZLY PEAK, BERKELEY, CA 94708

OICE / SMS: 212.727.9911

 HABITAT

 98-100 CASTRO STREET, SAN LEANDRO, CA 94577

 PROJECT APN #: 077-0550-011

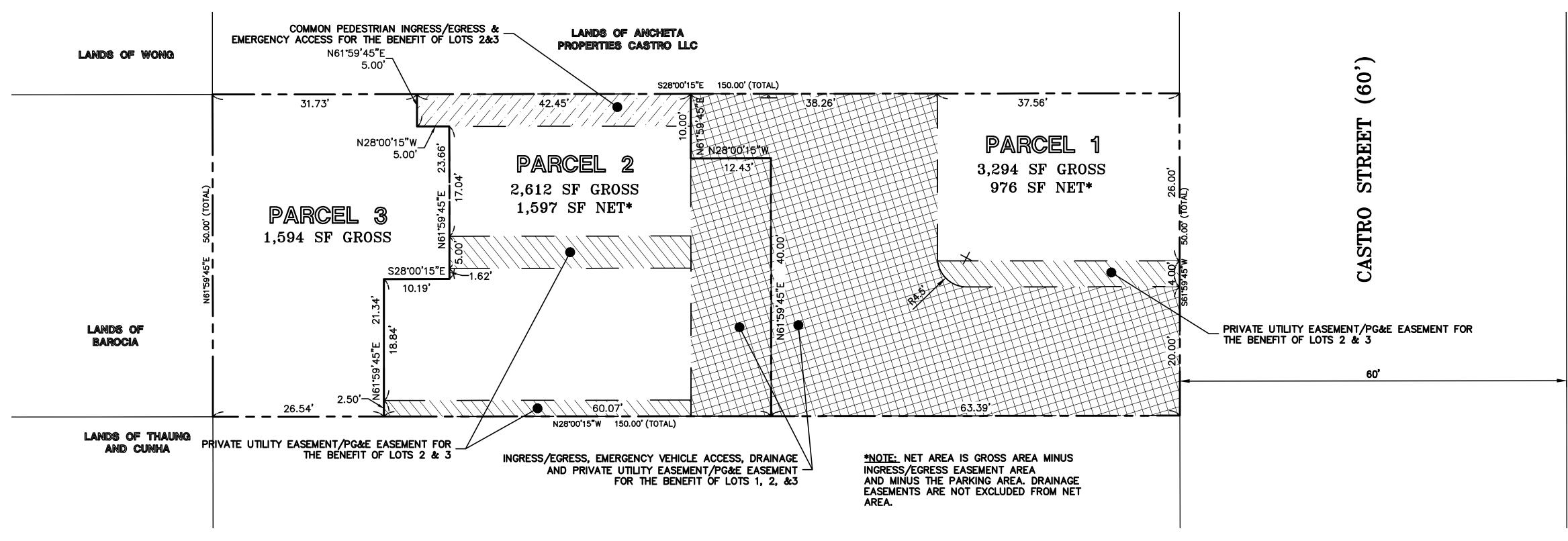
DRAWING INDEX, SYMBOLS LEGEND, SITE PHOTOS

DATE: 29 FEBRUARY 2024 ISSUED: FOR REVIEW

REV 1: - REV 3: - REV 4: -

A010

# TENTATIVE PARCEL MAP SUBDIVISION 98-100 CASTRO STREET SAN LEANDRO, CALIFORNIA



LINEAR FEET

MAXIMUM

MANHOLE

MINIMUM

NUMBER

OVER

NOT TO SCALE

PLANTING AREA

PROPERTY LINE

RIM ELEVATION

RIGHT OF WAY

STORM DRAIN

SPECIFICATION

SANITARY SEWER

RAINWATER

SANITARY

STREET

STATION

STANDARD

**STRUCTURAL** 

TOP OF CURB

TOP OF WALL

TOP OF PAVEMENT

VERTICAL CURVE

**VITRIFIED CLAY PIPE** 

WELDED WIRE FABRIC

TEMPORARY

TYPICAL

VERTICAL

WATER LINE

WATER METER

**TELEPHONE** 

POWER POLE

POST INDICATOR VALVE

PUBLIC SERVICES EASEMENT

REINFORCED CONCRETE PIPE

SEE ARCHITECTURAL DRAWINGS

STORM DRAIN MANHOLE

SEE LANDSCAPE DRAWINGS

SANITARY SEWER CLEANOUT

SANITARY SEWER MANHOLE

TOP OF WALL/FINISH GRADE

PUBLIC UTILITY EASEMENT

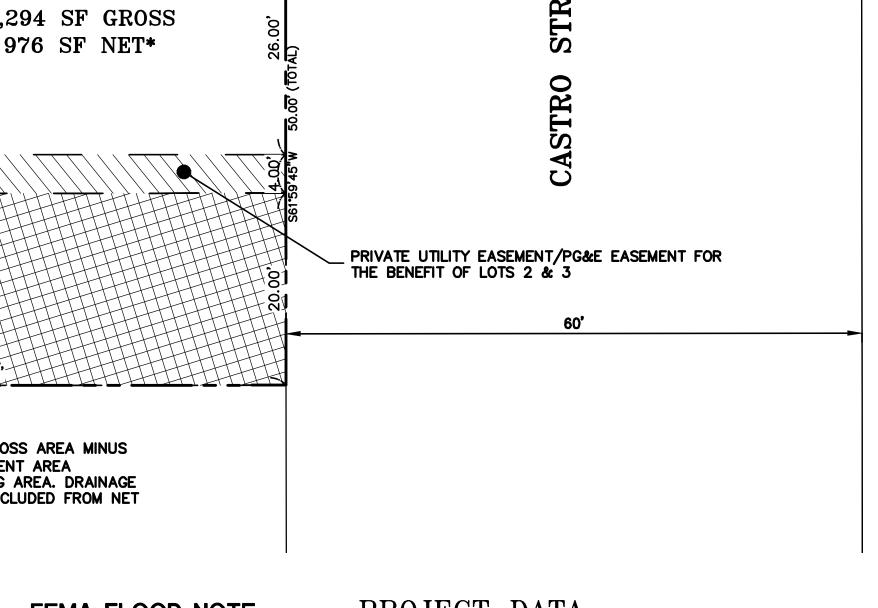
POLYVINYL CHLORIDE

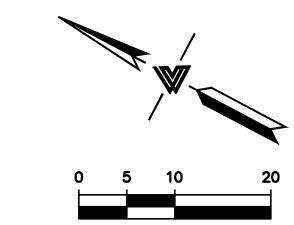
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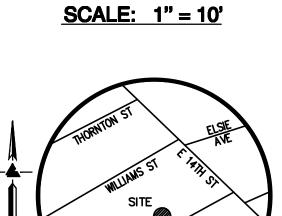
PEDESTRIAN

MONUMENT

METERED RELEASE OUTLET







**VICINITY MAP** 

**PROPOSED** 

## HATCH LEGEND

INGRESS/EGRESS, EMERGENCY VEHICLE ACCESS DRAINAGE AND PUBLIC UTILITY EASEMENT

PUBLIC UTILITY EASEMENT

COMMON PEDESTRIAN INGRESS/EGRESS

## LEGEND **EXISTING PROPOSED**

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#### DESCRIPTION ACC **BOUNDARY** PROPERTY LINE B & D **RETAINING WALL** BW/FG LANDSCAPE RETAINING WALL RAINWATER TIGHTLINE C & G SUBDRAIN LINE TIGHTLINE COTG STORM DRAIN LINE CONC SANITARY SEWER LINE CONST CONC COR WATER LINE GAS LINE STORM DRAIN PRESSURE LINE SANITARY SEWER PRESSURE LINEG JOINT TRENCH SET BACK LINE EW EARTHEN SWALE SPOT ELEVATION FG FH FLOW DIRECTION DEMOLISH/REMOVE **BENCHMARK HDPE CONTOURS** TREE TO BE REMOVED H&T

TREE PROTECTION FENCING

POINT OF OVERFLOW RELEASE LNDG

## **ABBREVIATIONS**

GGREGATE BASE	LF
SPHALT CONCRETE	MAX
CCESSIBLE	MH
REA DRAIN	MIN
EGINNING OF CURVE	MON.
EARING & DISTANCE	MRO
ENCHMARK	(N)
UBBLER BOX	NO.
OTTOM OF WALL/FINISH	NTS
RADE	O.C.
ATCH BASIN	0/
URB AND GUTTER	(PA)
ENTER LINE	PED
ORRUGATED PLASTIC PIPE	PIV
SMOOTH INTERIOR)	PSS
LEANOUT TO OBARE	<u>P</u> _
LEANOUT TO GRADE	PP
ONCRETE	PUE
ONSTRUCT or —TION	PVC
ONCRETE CORNER	R
UBIC YARD	RCP
IAMETER	RIM
ROP INLET	RW
UCTILE IRON PIPE	R/W
ACH	S
ND OF CURVE	
XISTING GRADE	S.A.D.
LEVATIONS	SAN
DGE OF PAVEMENT	SD
QUIPMENT	SDMH
ACH WAY	SHT
	S.L.D.
XISTING	SPEC
ACE OF CURB	SS
INISHED FLOOR	SSCO
NISHED GRADE	SSMH
RE HYDRANT	ST.
LOW LINE	STA
NISHED SURFACE	STD
AS	STRUCT
AGE OR GAUGE	T
RADE BREAK	τ̈́c
IGH DENSITY CORRUGATED	TOW
OLYETHYLENE PIPE	
ORIZONTAL	TEMP
	TP
IGH POINT	TW/FG
UB & TACK	TYP
IFILTRATIVE DEVICE	VC
IVERT ELEVATION	VCP
UNCTION BOX	VERT
DINT TRENCH	W/
DINT UTILITY POLE	W. WL
ENGTH	WM WE
ANDINO	****

LANDING

## FEMA FLOOD NOTE

PROPERTY COMPLETELY OUT OF SPECIAL FLOOD HAZARD AREA (SFHA) FLOOD INSURANCE RATE MAP

No.: 06001C0257G EFFECTIVE DATE: AUGUST 3, 2009

## EASEMENT NOTE

THERE ARE NO RECORD EASEMENTS PER PRELIMINARY TITLE REPORT ISSUED BY OLD REPUBLIC TITLE COMPANY, ORDER NO. 1117025169-JM, DATED AS OF MARCH 21, 2022

#### TREE NOTE TREE SIZE, TYPE AND DRIPLINES ARE BASED ON A VISUAL OBSERVATION.

FINAL DETERMINATION SHOULD BE

MADE BY THE PROJECT ARBORIST

#### ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS. BUILDING FOOTPRINTS ARE SHOWN TO FINISHED MATERIAL (STUCCO/SIDING)

AT GROUND LEVEL.

FINISH FLOOR ELEVATIONS ARE TAKEN AT DOOR THRESHOLD (EXTERIOR). THE AREA OF THE SURVEYED LOT IS

7,500± SQUARE FEET / 0.17± ACRES

## **UTILITY NOTE**

ALL UNDERGROUND PIPE TYPES, SIZES AND LOCATION SHOWN ON THIS SURVEY ARE BASED ON VISUAL OBSERVATION. ANY USE OF THIS NFORMATION SHOULD BE VERIFIED, BEFORE ITS USE, WITH THE CONTROLLING MUNICIPALITY OR UTILITY PROVIDER. THIS SURVEY MAKES NO GUARANTEE OF THE INSTALLED ACTUAL

## **BENCHMARK**

CITY OF SAN LEANDRO BENCHMARK CASTRO-E.14TH. CINCH NAIL TOP OF C.B. SW CORNER. ELEVATION = 55.38'(ADJUSTED TO NAVD 88 DATUM)

#### **SITE BENCHMARK** SURVEY CONTROL POINT MAG AND SHINER SET IN ASPHALT ELEVATION = 56.91

(ADJUSTED TO NAVD 88 DATUM)

## PROJECT DATA

#### TRACT NO.

RECORD OWNER(S): HABITAT FOR HUMANITY EAST BAY SILICON VALLEY

ATTN: LAJUAN RAMSEY 2619 BROADWAY OAKLAND, CA 94612

HAYWARD, CA 94545

HABITAT FOR HUMANITY EAST BAY SUBDIVIDER: SILICON VALLEY ATTN: LAJUAN RAMSEY

2619 BROADWAY OAKLAND, CA 94612 **ENGINEER:** LEA & BRAZE ENGINEERING INC. 2495 INDUSTRIAL PARKWAY WEST

(510) 887-4086 **CONTACT: PETE CARLINO** PARCEL AREAS: PARCEL 1 1.594 SF PARCEL 2 2,612 SF

PARCEL 3 3,294 SF ASSESSOR'S PARCEL NO. 077-0550-011

3 SINGLE FAMILY DETACHED INTENT USE: RESIDENTIAL LOTS

FEMA FLOOD ZONE: FLOOD ZONE "X" UTILITIES SERVICES:

EXISTING AND PROPOSED

FIRE DISTRICT:

WATER SUPPLY: EAST BAY MUNICIPAL UTILITY DISTRICT **SEWAGE DISPOSAL:** CITY OF SAN LEANDRO GAS & ELECTRICAL: PACIFIC GAS & ELECTRIC TELEPHONE: AT&T/T-MOBILE/SPRINT/VERIZON CABLE: AT&T/COMCAST GARBAGE SERVICE PROVIDER:

WASTE MANAGEMENT ALAMEDA COUNTY FIRE DEPARTMENT

## OWNER'S INFORMATION

HABITAT FOR HUMANITY EAST BAY SILICON VALLEY ATTN: LAJUAN RAMSEY 2619 BROADWAY OAKLAND, CA 94612

APN: 077-0550-011

## THIS TENTAIVE MAP PLAN IS SUPPLEMENTAL TO:

1. TOPOGRAPHIC SURVEY BY LEA & BRAZE ENGINEERING, INC. ENTITLED: "TOPOGRAPHIC SURVEY" 98-100 CASTRO STREET SAN LEANDRO, CA 94577 DATED: 04-28-22 JOB#: 2212278

2. SITE PLAN BY HABITAT FOR HUMANITY EAST BAY SILICON VALLEY ENTITLED: "ZONING"

98-100 CASTRO STREET SAN LEANDRO, CA 94577

THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND PROPOSED ITEMS ACCORDING TO THEM.

## SHEET INDEX

TITLE SHEET PRELIMINARY GRADING. DRAINAGE, AND UTILITY PLAN TOPOGRAPHIC SURVEY

FOR CONSTRUCTION STAKING

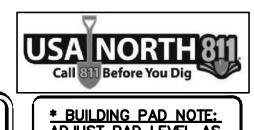
SCHEDULING OR QUOTATIONS

PLEASE CONTACT ALEX ABAYA

AT LEA & BRAZE ENGINEERING

(510)887-4086 EXT 116.

| aabaya@leabraze.com



ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

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REVISIONS JOB NO: 2212279 03-23-2

DATE: SCALE: AS NOTED DESIGN BY: KA CHECKED BY: JH

01 OF 05 SHEETS

SHEET NO:

FRONTAGE IMPROVEMENT NOTES:

"ALL EXISTING CRACKED OR DAMAGED FEATURES ALONG THE PROPERTY FRONTAGE MUST BE REPAIRED IN KIND. ALL FRONTAGE IMPROVEMENT WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY STANDARD DETAILS." HTTPS://WWW.SANLEANDRO.ORG/DOCUMENTCENTER/INDEX/112

ii. "ANY FRONTAGE IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF CONSTRUCTION WILL BE REQUIRED TO BE REPLACED."

iii. "AN ENCROACHMENT PERMIT FROM THE ENGINEERING DIVISION IS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES IN THE PUBLIC RIGHT OF WAY."

GRADING AND DRAINAGE NOTES:

1. GRADES WITHIN THE FIRST 10 FEET ADJACENT TO A STRUCTURE MUST HAVE A 5% SLOPE ON PERVIOUS SURFACES, AND A 2% SLOPE ON IMPERVIOUS SURFACES PER 1804.A4 OF THE CALIFORNIA BUILDING CODE (CBC).

UNDER NO CIRCUMSTANCE SHALL DRAINAGE RESULTING FROM THIS PROJECT, DURING OR POST CONSTRUCTION, DIRECTLY SHEETFLOW ACROSS AN ADJOINING PROPERTY. RUNOFF SHALL BE CONTAINED ON-SITE UP TO THE 10-YEAR STORM.

NOTE:
ALL EARTHWORK AND SITE DRAINAGE, INCLUDING EXCAVATION FOR THE BASEMENT, EXCAVATIONS FOR DRILLED PIER FOUNDATIONS, PLACEMENT OF ENGINEER FILL PREPARATION OF SUBGRADE BENEATH THE BASEMENT MAT AND ANY AT GRADE SLAB, BASEMENT RETAINING WALL BACKFILL, AND FINAL SURFACE DRAINAGE INSTALLATION SHOULD BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. THE SOIL ENGINEER SHOULD BE PROVIDED AT LEAST 48 HOURS ADVANCE NOTIFICATION OF ANY EARTHWORK OPERATIONS AND SHOULD BE PRESENT TO OBSERVE AND TEST, AS NECESSARY, THE EARTHWORK AND FOUNDATION INSTALLATION PHASES OF THE PROJECT.

**TOTAL CUBIC** 

HE PROJECT ARBORIST SHALL BE PRESENT AT ALL TIMES DURING CONSTRUCTION OF IMPROVEMENTS ADJACENT TO EXISTING HERITAGE TREES. ADDITIONAL RECOMMENDATIONS FOR TREE PROTECTION WILL FURNISHED IN THE FIELD AND SUBJECT TO PUBLIC WORKS WHERE REQUIRED.

## DEVELOPMENT INFORMATION

TOTAL SITE AREA 7,500 SQUARE FEET (0.17 ACRE)						
TOTAL DISTURBED AREA	REA 7,500 SQUARE FEET (0.17 ACRE)					
	EXISTING	REMOVED	NEW	PROPOSED		
IMPERVIOUS AREA	TOTAL S.F.	TOTAL S.F.	TOTAL S.F.	TOTAL S.F.		
RESIDENCE DRIVEWAY & PARKING PATIOS, WALKWAYS & PADS	0 0 0	0 0 0	2,018 334 817	2,018 334 817		
TOTAL IMPERVIOUS AREA	0	0	3,169	3,169		
NET CHANGE IN IMPERVIOUS AREA	+ 3,169 SQUAF	RE FEET (NET IN	ICREASE)			
PERVIOUS PAVING						
PERMEABLE DRIVEWAY	0	0	2,368	2,368		
TOTAL PERVIOUS PAVING	0	0	2,368	2,368		
NET CHANGE IN PERVIOUS PAVING	IG + 2,368 SQUARE FEET (NET INCREASE)					
TOTAL DEVELOPED AREA	0	0	5,537	5,537		
TOTAL DEVELOTED ANDA			NET CHANGE IN DEVELOPED AREA + 5,537 SQUARE FEET (NET INCREASE)			
NET CHANGE IN DEVELOPED AREA		L RE FEET (NET I	NCREASE)			

PROPOSED FLOOR AREA CALCULATIONS

**SCALE:** 1" = 10<sup>6</sup>

#### **FLATWORK**

FINISHED GRADES AT BUILDING PERIMETER SHALL BE SLOPED AT A MINIMUM OF 5% FOR THE FIRST 10' AWAY FROM THE BUILDING PER CBC 1804.4 OR TO AN APPROVED DRAINAGE SWALE OR STRUCTURE, GRADES SHALL CONTINUE TO SLOPE TOWARDS POSITIVE DRAINAGE AND A POSITIVE OUTFALL. MAINTAIN 8" CLEARANCE BETWEEN FINISH EARTHEN GRADE AND BOTTOM OF MUD SILL AT ALL TIMES PER CBC 2304.12.1.2 UNLESS STRUCTURAL DETAILING ALLOWS LESS. REFER TO STRUCTURAL PLANS FOR FOUNDATION DESIGN AND DETAILS.

SLOPE GARAGE SLAB 1% MINIMUM (1/8" PER FOOT) FROM BACK TO FRONT TO ALLOW FOR ADEQUATE DRAINAGE. MAINTAIN 1/2. TO 1. LIP BETWEEN GARAGE SLAB AND DRIVEWAY. SEE PLANS FOR SPECIFIC DROP

PROVIDE 2% SLOPE ACROSS FLAT WORK AND/OR PAVING PER CBC 1804.4. SLOPE TOWARDS POSITIVE DRAINAGE AS SHOWN ON PLAN.

(N) CONCRETE DRIVEWAY.

#### STORM DRAIN

CONSTRUCT (N) EARTHEN SWALE SLOPED AT 1% MINIMUM TOWARDS POSITIVE OUTFALL.

CONNECT RAIN WATER DOWNSPOUTS TO 4" PVC (SDR-35) TIGHTLINE, SLOPED AT 1% MINIMUM. DIRECT TO NEAREST STORM DRAIN LINE AS SHOWN ON PLANS. PROVIDE CLEANOUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS. TIGHTLINE MAY BE PLACED IN COMMON TRENCH WITH SUBDRAIN LINES. HOWEVER, DO NOT CONNECT TO SUBDRAIN LINES.

INSTALL (N) INFILTRATIVE DEVICE FOR ONSITE DRAINAGE.

#### UTILITIES

INSTALL (N) SANITARY SEWER LATERALS. USE 4" PVC (SDR-26) SLOPED AT 2% MINIMUM. CONNECT TO (E) SEWER MAIN AS SHOWN. PROVIDE CLEANOUT TO GRADE AT BUILDING AND BEHIND PROPERTY LINE AND AT MAJOR CHANGES IN DIRECTION AS SHOWN. REUSE (E) LATERAL IF POSSIBLE. CONNECT PER DISTRICT STANDARDS.

INSTALL (N) ENVIRONMENTAL ONE SEWER EJECTOR SYSTEM.

CONNECT (N) WATER SERVICE PER WATER DISTRICT STANDARDS. UPGRADE (E) WATER METER PER WATER DISTRICT STANDARDS AS APPLICABLE. INSTALL (N) 2" MINIMUM SERVICE LINE TO (N) RESIDENCE OR AS DIRECTED BY FIRE SPRINKLER DESIGNER.

INSTALL (N) JOINT TRENCH FOR SERVICES INCLUDING GAS, CATV & ELECTRIC FROM NEAREST POINT OF CONNECTION. DESIGN BY OTHERS.

ENCROACHMENT PERMIT FOR CONSTRUCTION IN THE STREET REQUIRED CONSTRUCTION CONDUCTED IN THE CITY RIGHT-OF-WAY MUST HAVE A "PERMIT FOR CONSTRUCTION IN THE STREET" THAT MUST BE OBTAINED FROM THE ENGINEERING & TRANSPORTATION DEPARTMENT PRIOR TO COMMENCEMENT OF WORK. ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY, EASEMENTS, OR OTHER PROPERTY CONTROLLED BY THE CITY/TOWN/COUNTY MUST CONFORM TO STANDARDS ESTABLISHED IN THE CITY STANDARD SPECIFICATIONS FOR THE UTILITIES DEPT. AND THE PUBLIC WORKS DEPT.

CONTRACTOR TO CONTACT USA 48 HOURS PRIOR TO CONSTRUCTION/ EXCAVATION IN THE RIGHT-OF-WAY.

ANY/ALL PUBLIC IMPROVEMENTS THAT ARE DAMAGED BY THE OWNER OR HIS/HER CONTRACTOR WHILE WORKING ON THIS PROJECT WILL BE THE RESPONSIBILITY OF THE OWNER TO REPAIR, RESTORE, OR REPLACE IN KIND. REPLACEMENT, REPAIR, OR RESTORATION WORK MUST BE IN COMPLIANCE WITH THE CITY STANDARD SPECIFICATIONS FOR CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY.

## DRAINAGE INSPECTIONS NOTE

LEA & BRAZE ENGINEERING, INC. SHOULD BE NOTIFIED TO INSPECT ALL STORM DRAINAGE AS IT IS INSTALLED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT LEA & BRAZE ENGINEERING, INC. PRIOR TO START OF CONSTRUCTION TO SET UP A PRE-CONSTRUCTION MEETING, AND TO CALL AT LEAST 48 HOURS IN ADVANCE OF ANY INSPECTIONS. PIPES ARE TO REMAIN UNCOVERED UNTIL AN INSPECTION OCCURS.

| POINT OF CONTACT: PETER CARLINO LEA & BRAZE ENGINEERING, INC.

aabaya@leabraze.com

(510)887-4086 pcarlino@leabraze.com

\* BUILDING PAD NOTE: ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

BRAZE

[ANI] TRE] 

RADIN UTILIT AR MI PRELII DRAIN

REVISIONS JOB NO: 2212279 03-23-23 AS NOTED

DATE: SCALE: DESIGN BY: KA CHECKED BY: JH SHEET NO:

TM-2

USA NORTH 81 Call Before You Dig

NOTE: FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116.

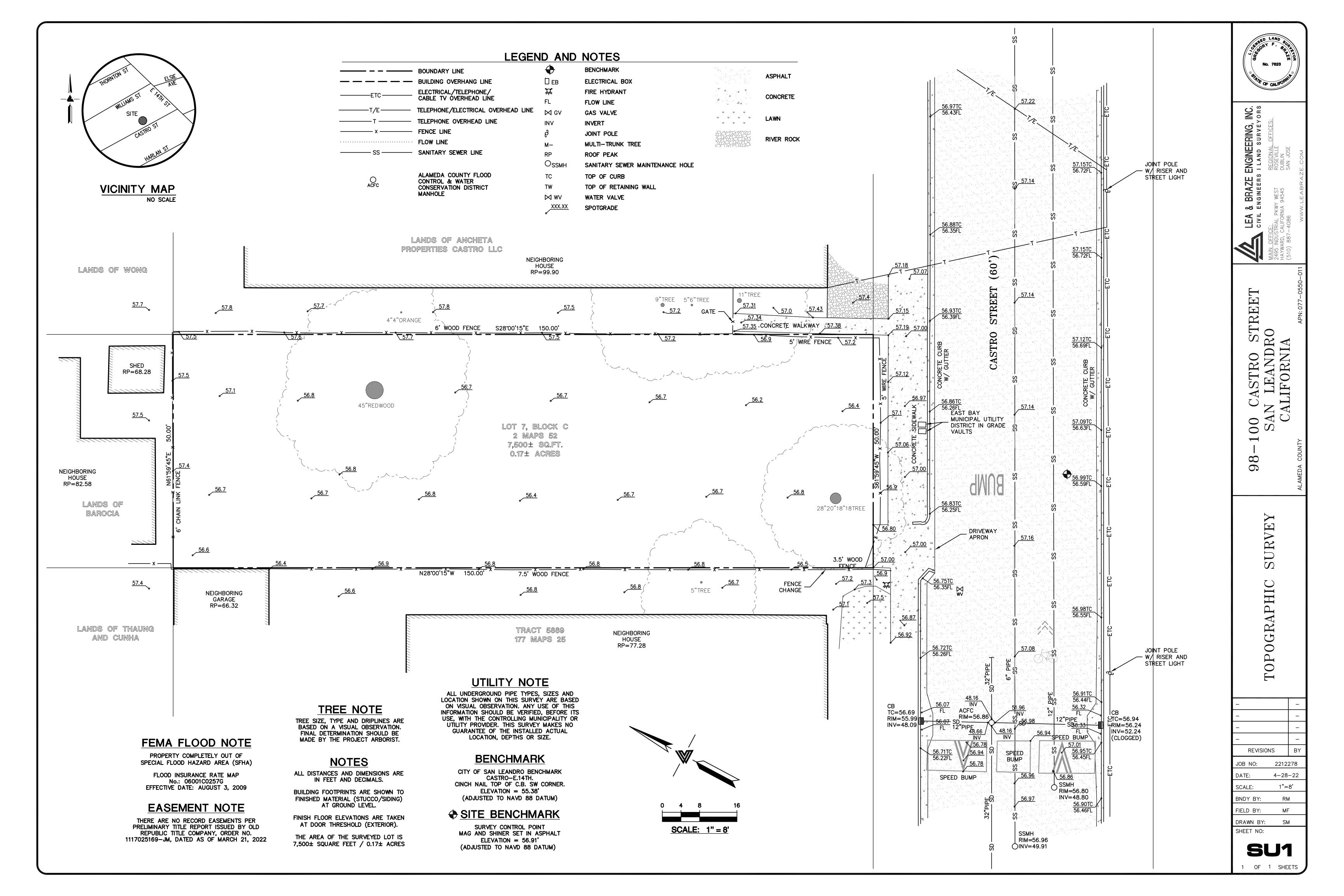
#### **CUBIC YARDS** YARDS 0 250 250 IMPORT GRADING QUANTITIES REPRESENT BANK YARDAGE. IT DOES NOT INCLUDE ANY SWELLING OR SHRINKAGE FACTORS AND IS INTENDED TO REPRESENT IN-SITU CONDITIONS. QUANTITIES DO NOT INCLUDE OVER-EXCAVATION, TRENCHING, STRUCTURAL FOUNDATIONS OR PIERS, OR POOL EXCAVATION

(IF ANY). NOTE ADDITIONAL EARTHWORKS, SUCH AS KEYWAYS OR BENCHING

MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEER IN THE FIELD AT TIME

OF CONSTRUCTION. CONTRACTOR TO VERIFY QUANTITIES.

ESTIMATED EARTHWORK QUANTITIES



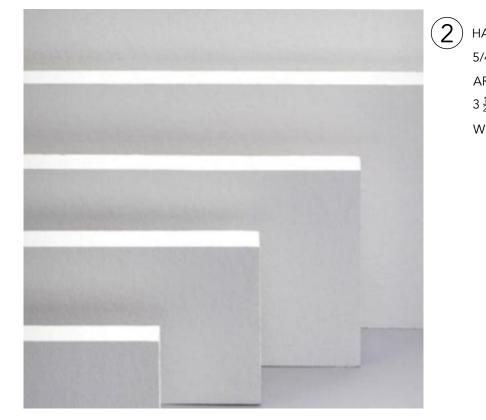


## 1 ELEVATION - MATERIALS SCALE: 1/16" = 1'-0"

## MATERIALS



SMOOTH ARCTIC WHITE



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2 HARDIE TRIM 5/4 RUSTIC ARCTIC WHITE  $3\frac{1}{2}$ " WIDTH, 1" THICKNESS WINDOWS AND DOORS



(3) CERTAINTEED LANDMARK SOLARIS SILVER BIRCH MAIN ROOFS, PORCH ROOFS



(5) MILGARD TUSCANY EXTERIOR SWINGING DOOR WHITE VYNYL





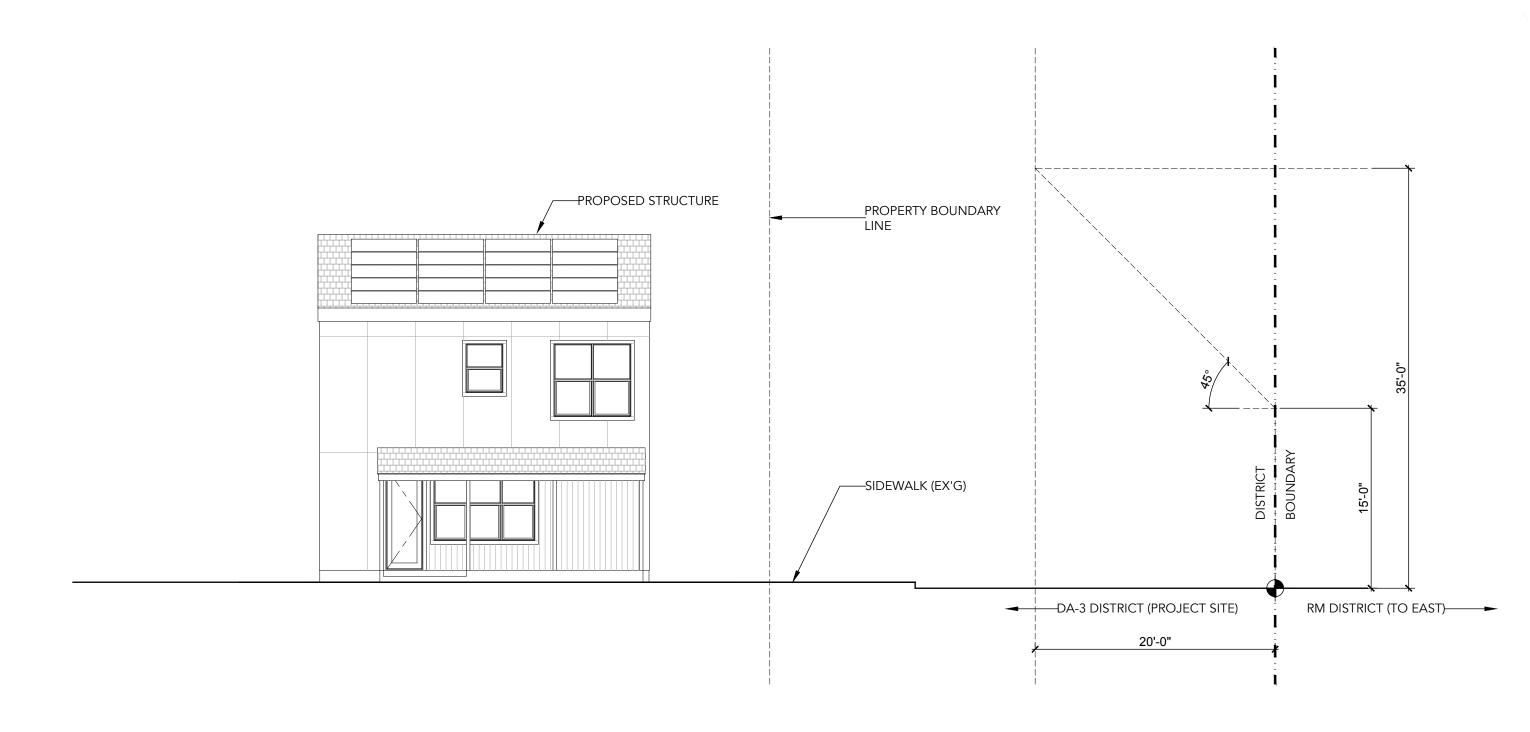
 $\overline{7}$  CEDAR ROOF FASCIA, PORCH ROOF FASCIA PORCH COLUMNS, PORCH SIDING



1234 GRIZZLY PEAK, BERKELEY, CA 94708 VOICE / SMS: 212.727.9911 INFO@RANGR.COM

HABITAT 98-100 CASTRO STREET, SAN LEANDRO, CA 94577 PROJECT APN #: 077-0550-011

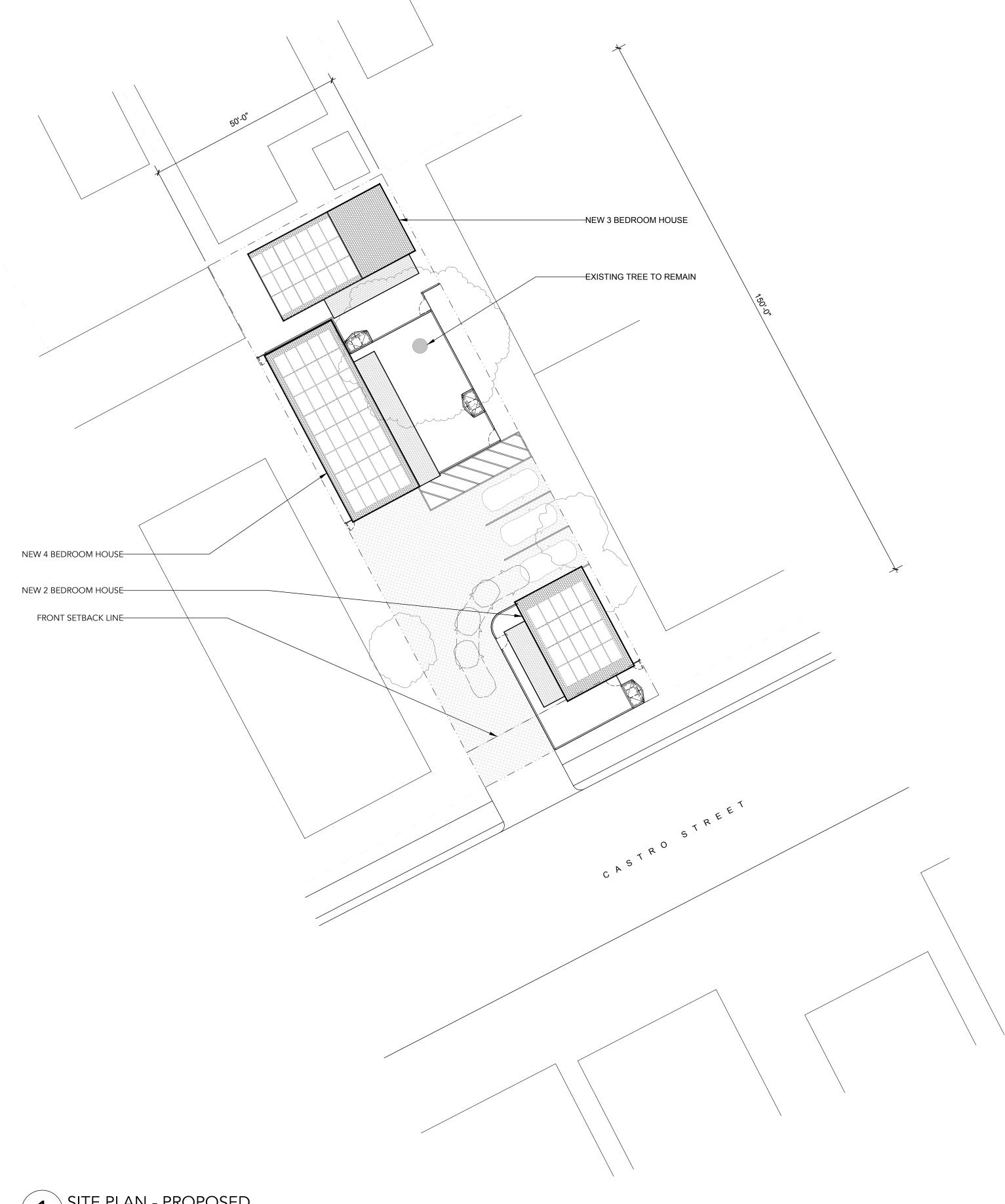
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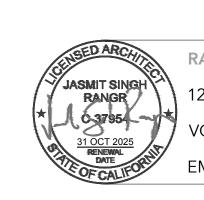


## **ZONING INFORMATION**

ZONING	DA3					
GENERAL PLAN LA	ND USE MUD - DOWN	MUD - DOWNTOWN MIXED USE				
	·					
CODE SECTION	NAME	REQUIREMENT	PARCEL 1	PARCEL 2	PARCEL 3	
2.08.300	LOT AREA	5,000 SF MIN.	3,294 SF	2,612 SF	1,594 SF	
	LOT WIDTH	50 FT MIN.	50'-1 7/8"	55'-1 1/2"	51'-2 5/8"	
2.08.308	MINIMUM YARDS				•	
	FRONT:	10-15 FT MIN.	10'-0"	23'-4 3/4"	10'-3/8"	
	SIDE A	N/A	2'-6"	0'-9 3/8"	2'-6"	
	SIDE B	N/A	23'-4"	12'-5 5/8"	11'-3 5/8"	
	SIDE C	N/A	N/A	0'-7 3/4"	5'-10 1/4"	
	REAR:	N/A	25'-10"	2'-6"	2'-6"	
2.08.312	HEIGHT OF STRUCTURES					
	RESIDENTIAL AND MIXED-USE					
	RESIDENTIAL DEVELOPMENT	1				
	MINIMUM HEIGHT (FT.)	N/A	N/A	N/A	N/A	
	RESIDENTIAL AND MIXED-USE					
	RESIDENTIAL DEVELOPMENT	50 FT MAX.	28'-11 3/4"	28'-11 3/4"	30'-3 7/16"	
	MAXIMUM HEIGHT (FT.)					
2.08.316	LOT COVERAGE	100% MAX.	19.1%	40.4%	50.5%	
2.08.320	FLOOR AREA RATIO (FAR)					
	F.A.R.	3.5 MAX.	0.30	0.65	0.82	
2.08.324	SITE LANDSCAPING	5% MIN.	19.0%	39.7%	58.3%	
	MAXIMUM DENSITY	100 DU/ACRE	13.2 DU/ACRE	16.7 DU/ACRE	27.3 DU/AC	





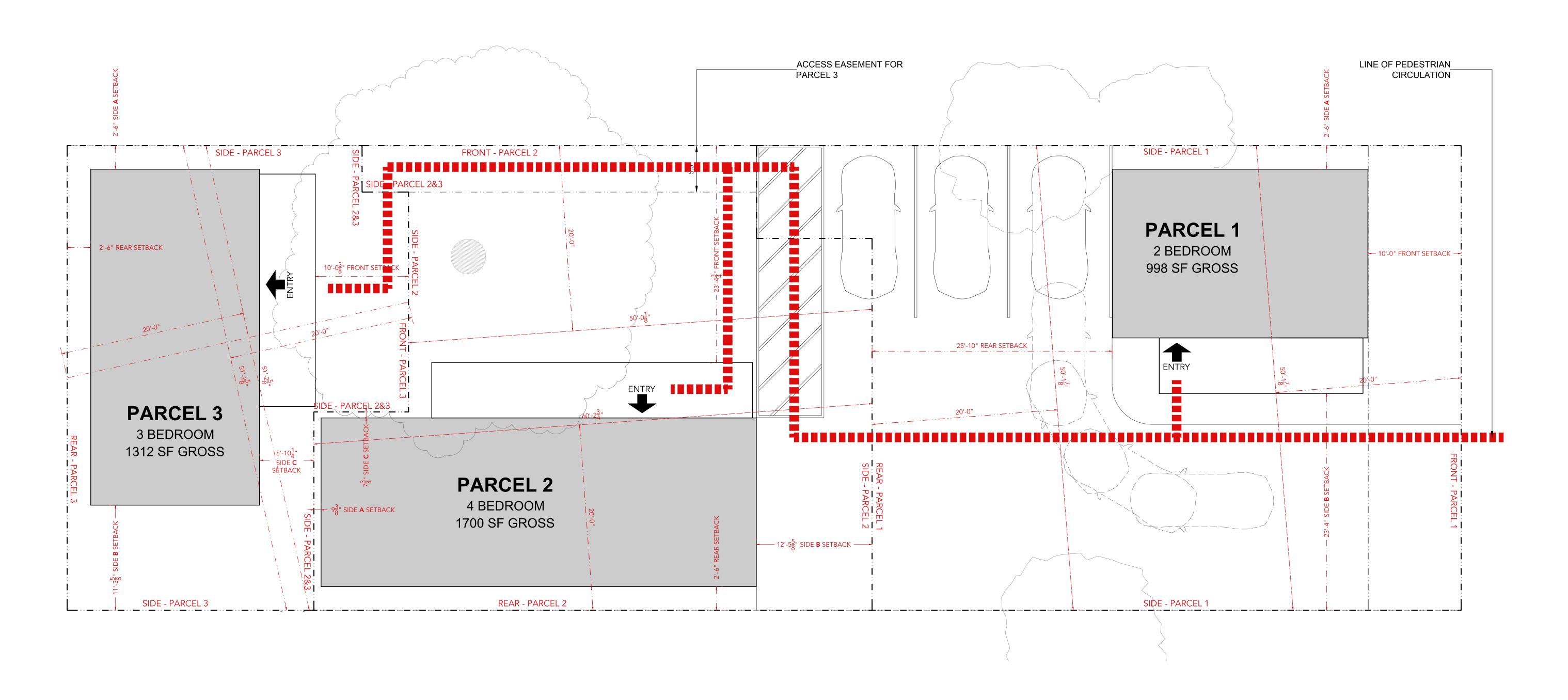


NGR STUDIO				
4 GRIZZLY PEAK, BERKELEY, CA 94708				
ICE / SMS:	212.727.9911			
AIL:	INFO@RANGR.COM			

HABITAT	
98-100 CASTRO STREET, SAN LEANDRO, CA 94577	
PROJECT APN #: 077-0550-011	

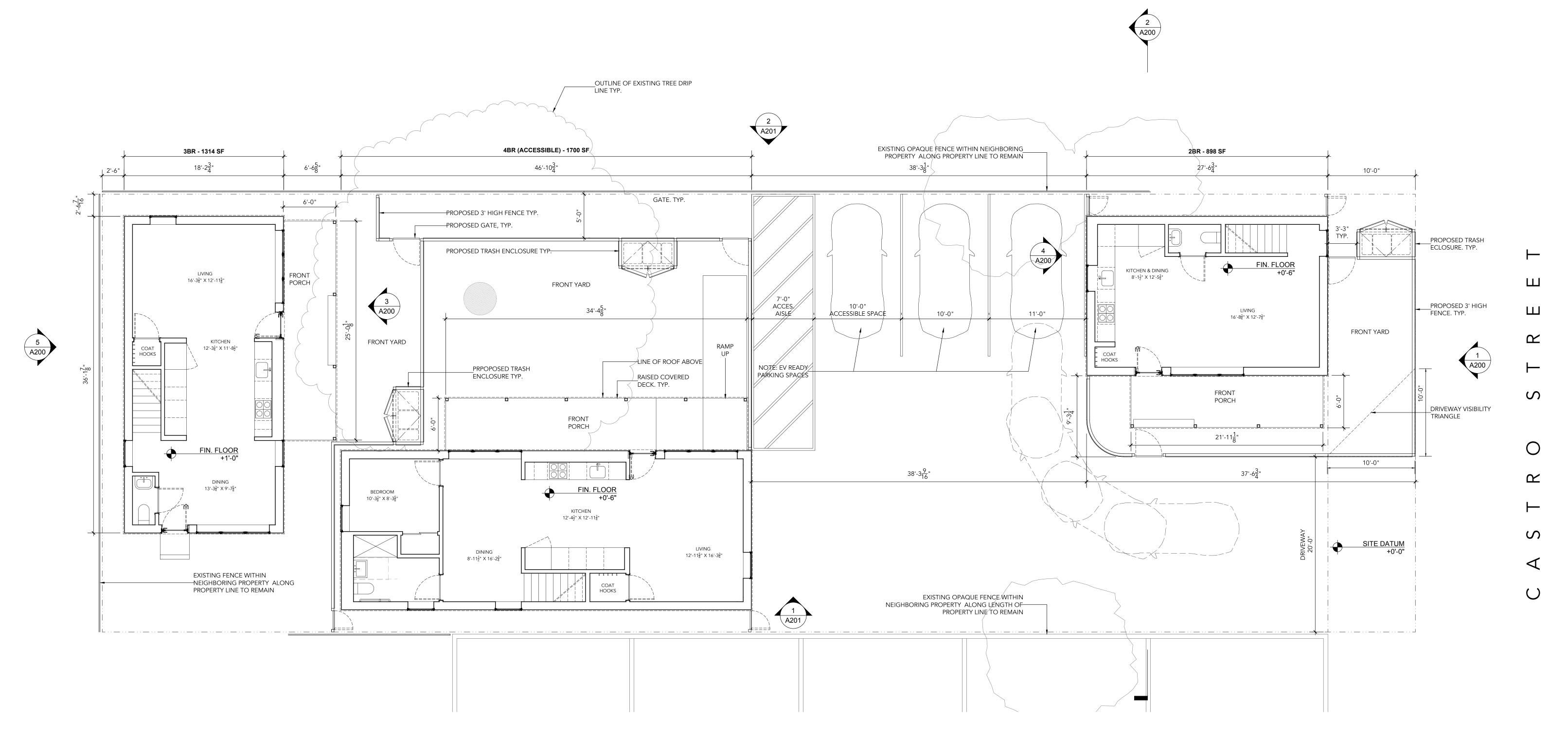
SITE PLAN - PROPOSED	
DATE: 29 FEBRUARY 2024 ISSUED: FOR REVIEW	A020
REV 1: - REV 3: -	AUZU
REV 2: - REV 4: -	

A030



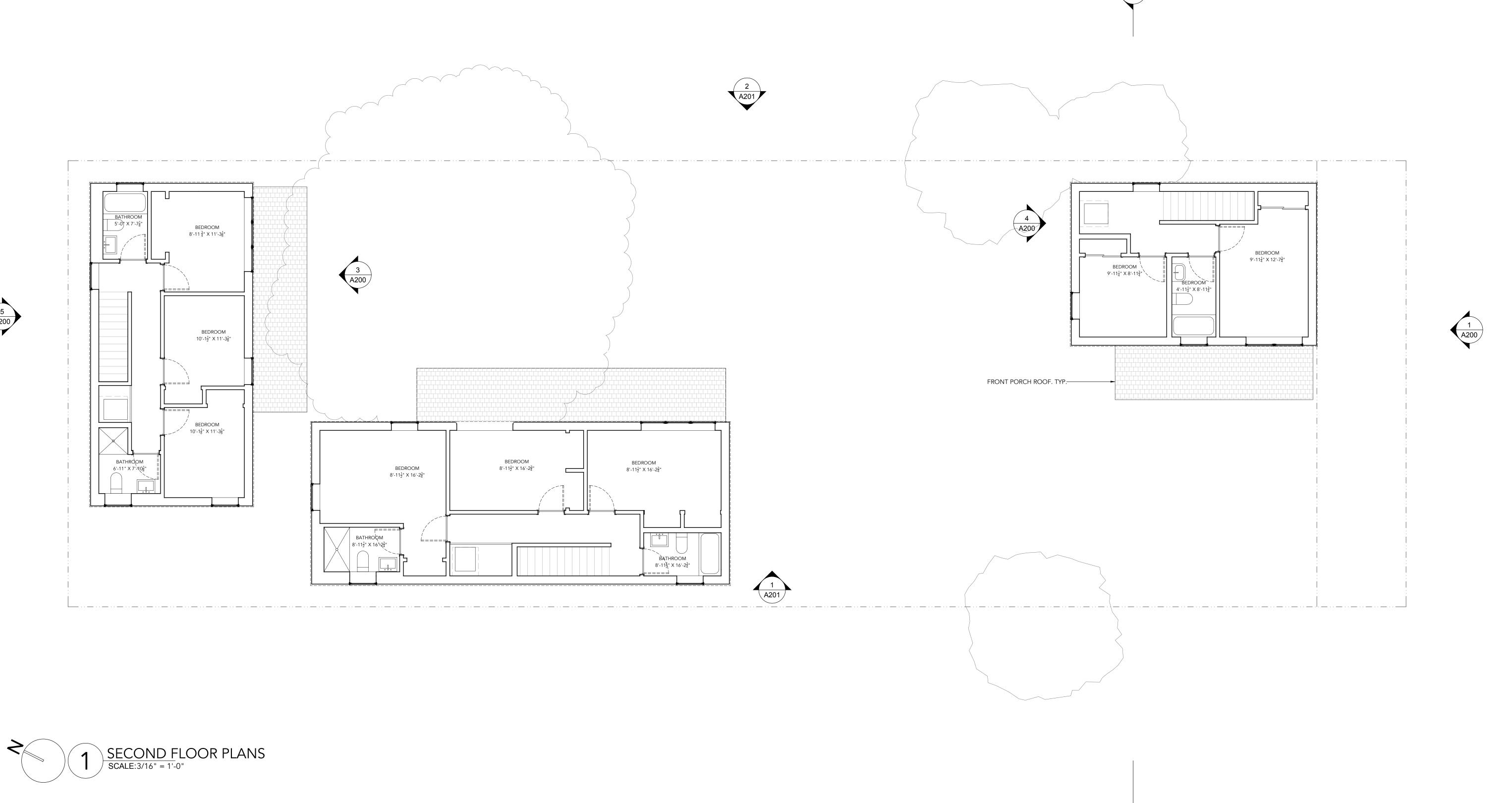


CEUSED ARCHITECT	RANGR STUD	DIO	HABITAT	PARCEL I	DIVISION PLAN	
JASMIT SINGH RANGR	1234 GRIZZLY	PEAK, BERKELEY, CA 94708	98-100 CASTRO STREET, SAN LEANDRO, CA 94577	DATE:	29 FEBRUARY 2024	ISSUED: FOR REVIEW
* C 37954 31 OCT 2025	VOICE / SMS:	: 212.727.9911	PROJECT APN #: 077-0550-011	REV 1:	-	REV 3: -
31 OCT 2025 RENEWAL DATE OF CALIFORNIA	EMAIL:	INFO@RANGR.COM		REV 2:	-	REV 4: -









RANGR STUDIO

1234 GRIZZLY PEAK, BERKELEY, CA 94708

INFO@RANGR.COM

VOICE / SMS: 212.727.9911

HABITAT

98-100 CASTRO STREET, SAN LEANDRO, CA 94577

PROJECT APN #: 077-0550-011

A101

FLOOR PLANS - SECOND FLOOR

ISSUED: FOR REVIEW

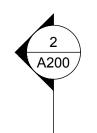
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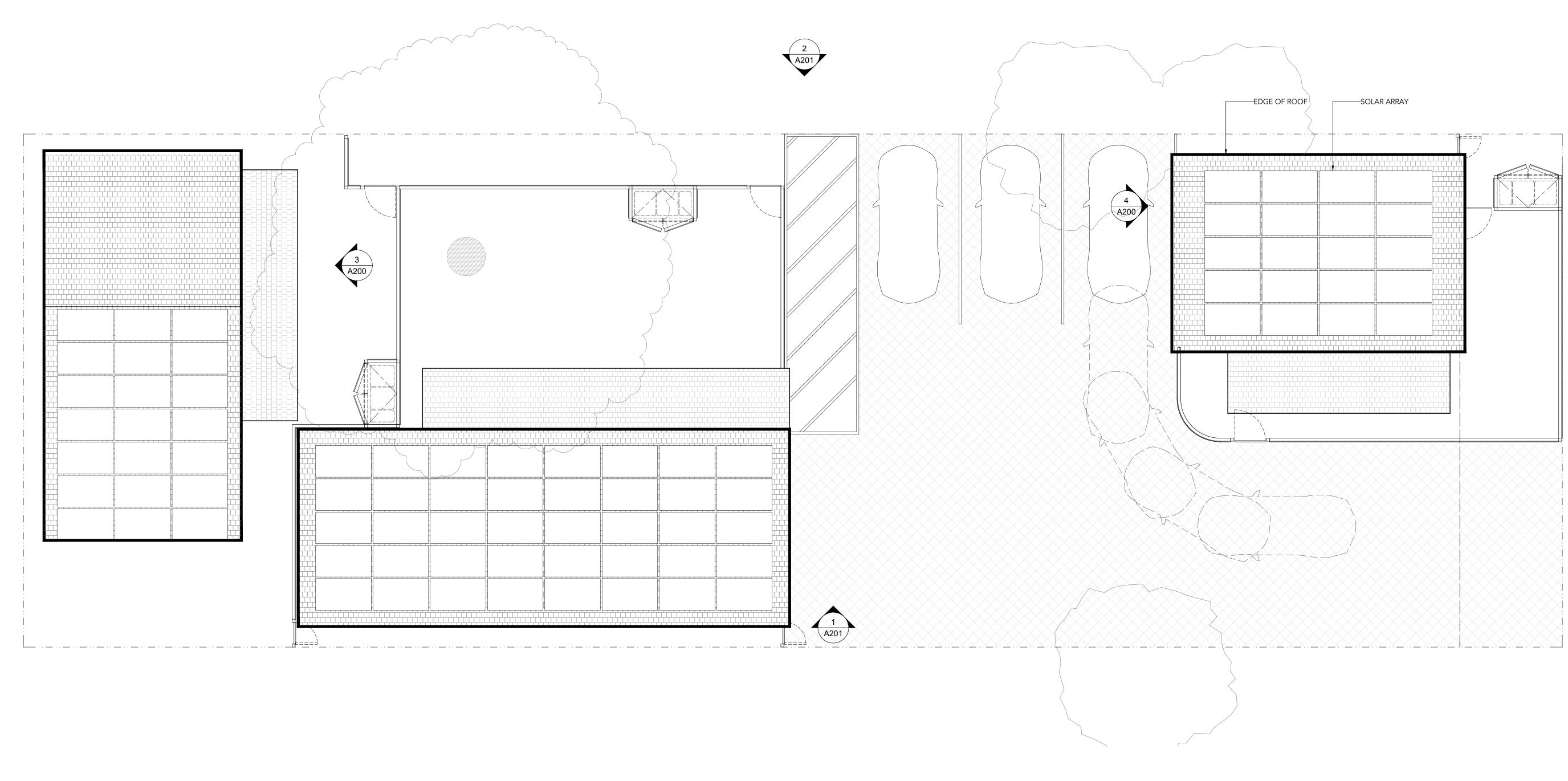
REV 4: -

DATE: 29 FEBRUARY 2024

REV 1: -

REV 2: -





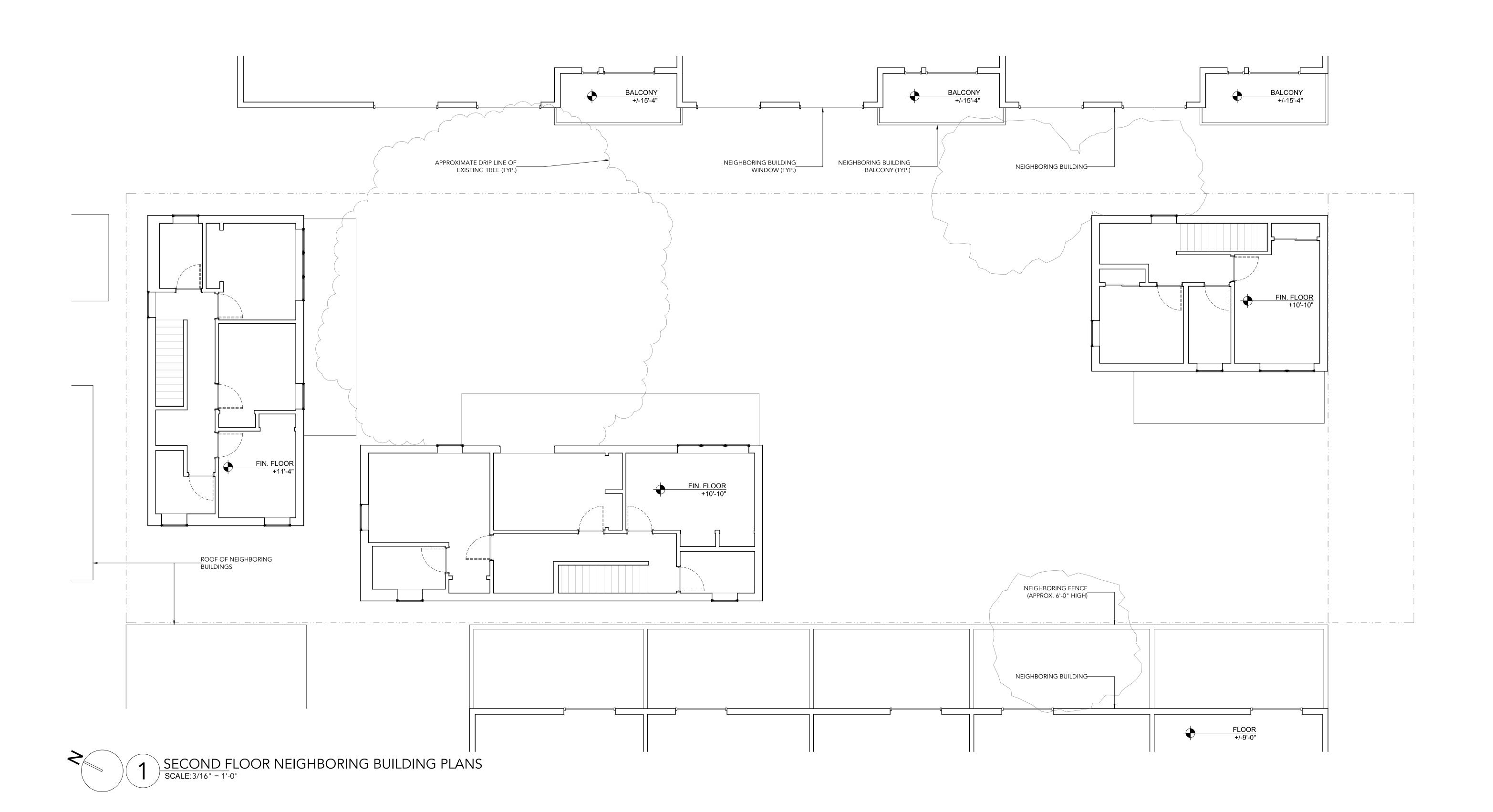


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SENSED ARCHITE	RANGR STUD	10
JASMIT SINGH RANGR	1234 GRIZZLY	PEAK, BERKELEY, CA 94708
* 37954 31 OCT 2025	VOICE / SMS:	212.727.9911
RENEWAL DATE OF CALIFORNIA	EMAIL:	INFO@RANGR.COM

	HABITAT	ı
	98-100 CASTRO STREET, SAN LEANDRO, CA 94577	[
	PROJECT APN #: 077-0550-011	F
ı		

_	ROOF PL	AN		
	DATE:	29 FEBRUARY 2024	ISSUED: FOR REVIEW	A103
	REV 1:	-	REV 3: -	A103
	REV 2:	-	REV 4: -	



RANGR STUDIO

1234 GRIZZLY PEAK, BERKELEY, CA 94708

VOICE / SMS: 212.727.9911

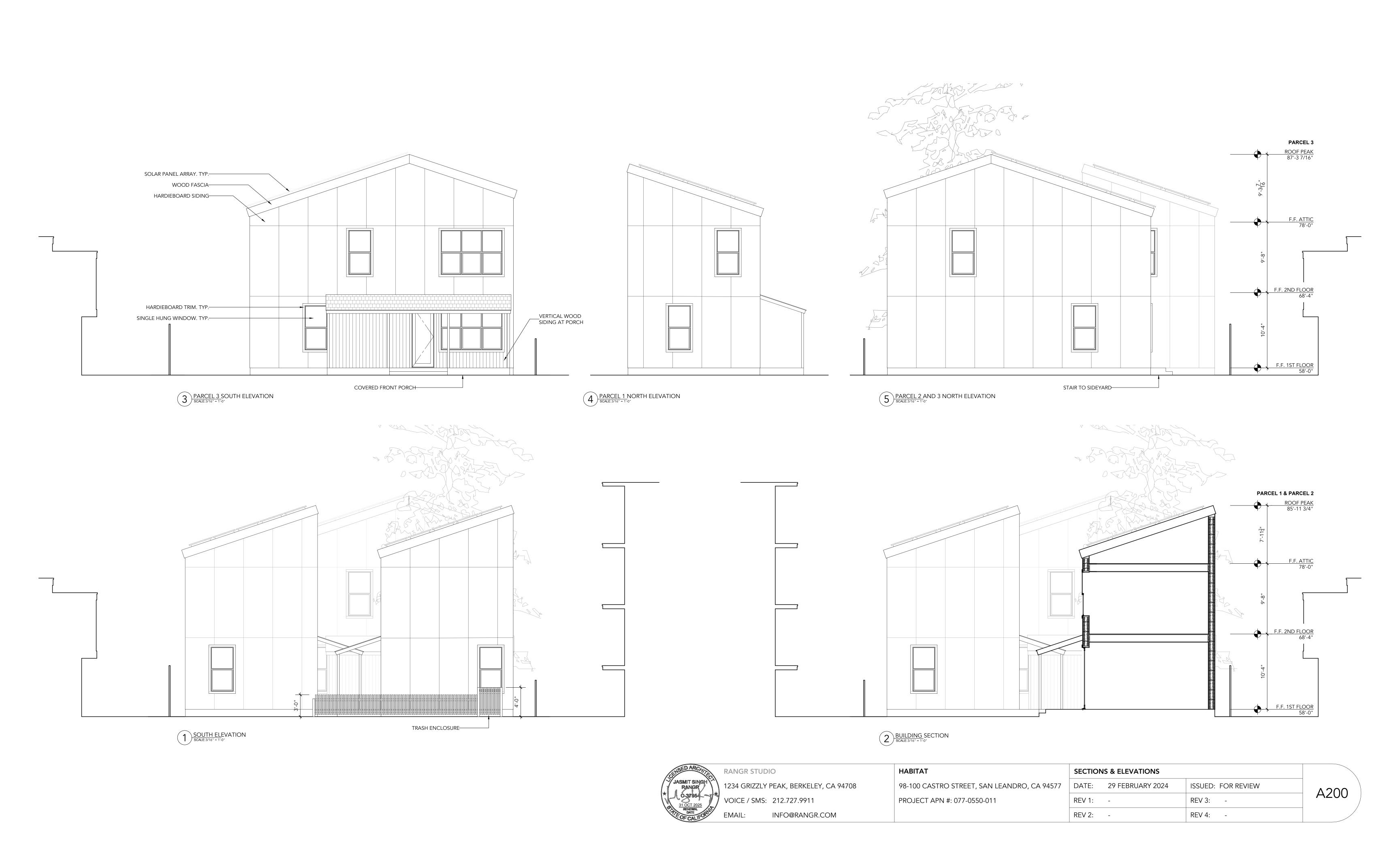
EMAIL: INFO@RANGR.COM

HABITAT

98-100 CASTRO STREET, SAN LEANDRO, CA 94577

PROJECT APN #: 077-0550-011

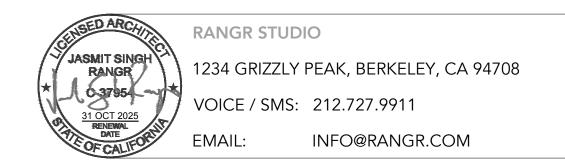
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REV 2: - REV 4: -





F.F 1ST FLOOR 58'-0"

WEST ELEVATION
SCALE:3/16" = 1'-0"



HABITAT	
98-100 CASTRO STREET, SAN LEANDRO, CA 94577	
PROJECT APN #: 077-0550-011	
	1

SECTION	IS & ELEVATIONS		
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REV 2:	-	REV 4: -	

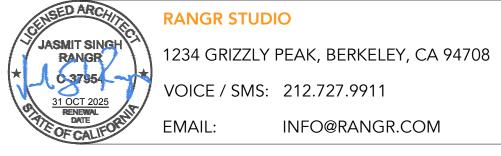








PARCELS 2 & 3



HABITAT	
98-100 CASTRO STREET, SAN LEANDRO, CA 94577	
PROJECT APN #: 077-0550-011	

RENDER	INGS		
DATE:	29 FEBRUARY 2024	ISSUED: FOR REVIEW	<b>A O O O</b>
REV 1:	-	REV 3: -	A900
REV 2:	-	REV 4: -	

#### 490: PURPOSE

PROMOTE THE NUMEROUS ENVIRONMENTAL, SOCIAL AND ECONOMIC BENEFITS OF LANDSCAPE THROUGH SUSTAINABLE PRACTICES AND THE EFFICIENT USE OF WATER.

#### 491: DEFINITIONS

(aa) "HYDROZONE" MEANS A PORTION OF THE LANDSCAPE AREA HAVING PLANTS WITH SIMILAR WATER NEEDS. WATER NEEDS VARY DEPENDING ON SOLAR EXPOSURE, SPECIES ROOTING DEPTH AND SOIL

(ii) "LANDSCAPE AREA" MEANS ALL THE PLANTING AREAS. TURF AREAS AND WATER FEATURES IN A LANDSCAPE DESIGN PLAN. IT DOES NOT INCLUDE FOOTPRINTS OF BUILDINGS OR STRUCTURES, SIDEWALKS, DRIVEWAYS, PARKING LOTS, DECKS, PATIOS GRAVEL OR STONE WALKS, OTHER PERVIOUS OR NON-PERVIOUS HARDSCAPES AND OTHER NON-IRRIGATED AREAS DESIGNATED FOR NON-DEVELOPMENT.

(zzz) "TURF" MEANS A GROUND COVER SURFACE OF MOWED GRASS.

#### 492.3: PROJECT INFORMATION

DATE: FEBRUARY 2024

PROJECT APPLICANT: HABITAT FOR HUMANITY

PROJECT ADDRESS: 98-100 CASTRO ST., SAN LEANDRO, CA

TOTAL LANDSCAPE AREA (SF): 1,624

TURF AREA (SF): 348

NON-TURF PLANT MATERIAL AREA (SF): 1,276

PROJECT TYPE: NEW 3 UNIT RESIDENTIAL

(NEW, REHABILITATED, PUBLIC, PRIVATE, CEMETERY, HOMEOWNER-INSTALLED)

WATER SUPPLY TYPE: POTABLE (POTABLE/RECYCLED/WELL)

LOCAL WATER PURVEYOR: EBMUD

#### 492.3: LANDSCAPE DOCUMENTATION PACKAGE

- MWELO DOCUMENTATION
- LANDSCAPE DESIGN PLAN
- IRRIGATION DESIGN PLAN
- GRADING DESIGN PLAN: SEE CIVIL PLANS

NOTE THAT THIS LIST IS FOR MWELO COMPLIANCE ONLY AND IS NOT THE SAME AS THE SHEET LIST IN THE PROJECT PLAN SET.

## 492.6: LANDSCAPE DESIGN PLAN

- 1. DESIGN THE LANDSCAPE TO MEET THE CRITERIA OF MWELO
- 2. SELECT PLANT MATERIAL WHICH CONSIDERS WATER USE, ENCOURAGES THE USE OF NATIVE SPECIES, AVOIDS INVASIVE SPECIES, ADDRESSES FIRE SAFETY AND IS SUITABLE TO THE MICROCLIMATE.
- 3. GROUP PLANTS IN HYDROZONES.
- DELINEATE AND LABEL THE HYDROZONES ON THE LANDSCAPE DESIGN PLAN.
- 5. TURF DOES NOT EXCEED 25% OF THE TOTAL LANDSCAPE AREA

#### LAWN ALTERNATIVES:

- 1. THE LAWNS USE DROUGHT TOLERANT AND/OR NATIVE SPECIES. SUBSURFACE IRRIGATION IS USED. WATER USE IS SIGNIFICANTLY REDUCED RELATIVE TO TRADITIONAL LAWNS.
- 2. "LAWN" IDENTIFIED ON PLAN IS A NATIVE, MOW-FREE, SOD. THOUGH WUCOLS DOES NOT DISTINGUISH BETWEEN VARIOUS TURF SPECIES, THIS TURF WILL ACTUALLY BE A LOW WATER USE PLANT ONCE ESTABLISHED.

## 492.7: IRRIGATION DESIGN PLAN

- 1. THE DESIGN OF THE IRRIGATION SYSTEM CONFORMS TO THE HYDROZONES OF THE LANDSCAPE DESIGN PLAN.
- 2. THE SYSTEM IS DESIGNED TO REDUCE WATER USE TO THE MINIMUM AMOUNT TO SUSTAIN HEALTHY PLANT GROWTH AND TO PREVENT RUNOFF, LOW HEAD DRAINAGE AND OVERSPRAY.
- BACKFLOW PROTECTION IS INSTALLED AT THE POINT OF CONNECTION
- 4. A SEPARATE DEDICATED WATER METER OR SUBMETER IS PROVIDED. 5. A SMART CONTROLLER WITH NON-VOLATILE MEMORY AND UTILIZING
- EVAPOTRANSPIRATION OR SOIL MOISTURE DATA FOR SCHEDULING IS INSTALLED. WEATHER SENSORS ARE PROVIDED
- 6. STATIC WATER PRESSURE AT THE POINT OF CONNECTION IS PROVIDED.
- PRESSURE REGULATION IS PROVIDED.
- 8. A MASTER SHUT-OFF VALVE IS INSTALLED.
- 9. A FLOW SENSOR IS INSTALLED.
- 10. MANUAL SHUT-OFF VALVES ARE PROVIDED AS CLOSE AS POSSIBLE TO THE POINT OF CONNECTION.
- 11. SEPARATE VALVES ARE USED TO IRRIGATE EACH HYDROZONE.

B. WITHIN 24 INCHES OF ANY NON-PERMEABLE SURFACE

- 12. TO AVOID RUNOFF AND OVERSPRAY OVERHEAD IRRIGATION IS NOT PERMITTED: A. IN AREAS LESS THAN 10 FEET WIDE
- 13. POST CONSTRUCTION REQUIREMENTS, INCLUDING AN AUDIT, ENSURE THAT THE SYSTEM MEETS THE DESIGN GOALS.

## **DIVERSION OF WASTE**

50% OF LANDSCAPE CONSTRUCTION AND DEMOLITION WAST, BY WEIGHT, MUST BE DIVERTED FROM THE LANDFILL

#### 492.4: WATER EFFICIENT LANDSCAPE WORKSHEET

		WA	ATER EFFICI	ENT LANDSCA	PE WOR	KSHEET			
				Castro					
Reference Eva	potranspiration (ET0)		41.8			PSI: not availa	ble on unde	eveloped site	
ETWU: ESTIM	ATED TOTAL WATER USE	=ETWU=E	T0 X 0.62 X [((P	F X HA) / IE) + SLA]					
HYDROZONE	PLANTING DESCRIPTION	PLANT FACTOR	IRRIGATION METHOD	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	LANDSCAPE AREA (SF)	ETAF X AREA	INCHES / YEAR (IF REQ)	ETWU (GAL/YR)
Regular Lands	cape Areas								
1	Redwood Tree - existing	0.70	drip	0.81	0.86	172	148.64	7,189.60	3,852.21
2	trees & shrubs - shade	0.20	drip	0.81	0.25	690	170.37	28,842.00	4,415.32
3	no mow lawn - shade	0.40	drip	0.81	0.49	116	57.28	4,848.80	1,484.57
4	trees & shrubs - sun	0.20	drip	0.81	0.25	414	102.22	17,305.20	2,649.19
5	no mow lawn - sun	0.40	drip	0.81	0.49	232	114.57	9,697.60	2,969.14
SUBTOTAL					0.47	1,624		67,883.20	15,370.43
ETWU TOTAL								ETWU	15,370.43
MAWA: MAXIN	IUM ALLOWED WATER U	SE = (ET0)	(0.62) [ (ETAF X	LA) + ((1-ETAF) X S	LA)]				
ET0	CONVERSION FACTOR	ETAF	ETAF X LA = D	1-ETAF X SLA = E	D+E				MAWA (GAL/YR)
41.80	0.62	0.55	893.20	0.00	893.20			MAWA	23,148.17
								ETWU COMPLIE	S WITH MAWA
ETWU AVERAGE	ETAF MUST BE: RESIDENTIAL	: < .55, NON-I	RESIDENTIAL: <.45					21110 001111 212	
	SIDENTIAL= 0.55, NON-RESIDE								
PLANT FACTOR:	VL=0-0.1, L=0.2-0.3, M=0.4-0.6,	H=0.7-1.0		*				li-	
IRRIGATION EFF	ICIENCY (IE): SPRAY=.75, DRIP	=.81							
MAX ALLOWED 1	TURF AREA = 25%		ACTUAL TURF AREA :	24%					

#### MWELO WORKSHEET CALCULATIONS

THE CALCULATIONS IN THIS WORKSHEET WILL REQUIRE UPDATING ALONG WITH THE DEVELOPMENT OF THE PROJECT

#### 492.7. (a)(2)(C) TREES

- WHERE FEASIBLE (BUT NOT REQUIRED), TREES SHALL BE PLACED ON SEPARATE VALVES FROM SHRUBS, **GROUNDCOVERS AND TURF**
- 2. AVOID BUBBLERS. THEY DO NOT FACILITATE THE APPROPRIATE IRRIGATION OF TREES. THEY ONLY PROVIDE WATER AT THE ROOT BALL WHICH WILL ENCOURAGE CIRCLING ROOTS AND PROMOTE CROWN ROT.
- THE MATURE SIZE AND EXTENT OF THE ROOT ZONE SHALL BE CONSIDERED WHEN DESIGNING IRRIGATION FOR THE
- 4. APPROPRIATE TREE IRRIGATION MUST ENSURE THAT THE IRRIGATION DEVICE AND SCHEDULE PROVIDE THE BEST METHOD OF DELIVERING WATER TO THE ROOT ZONE AND WHICH EXPANDS AS IT GROWS.
- 5. PROVIDE DEEP AND INFREQUENT IRRIGATION

## 492.5: SOIL MANAGEMENT REPORT

- 1. PER MWELO SECTION 492.5 AND PER CHAPTER 4.16 OF THE CITY OF SAN LEANDRO ZONING CODE, A SOIL MANAGEMENT REPORT IS REQUIRED.
- 2. PER MWELO SECTION 492.5 (2)(B) SIGNIFICANT MASS GRADING IS PLANNED. WHEN SITE AND SOIL DISTURBANCE HAS ENDED, SUBMIT THIS REPORT AS PART OF THE CERTIFICATE OF COMPLETION.
- 3. NO SPECIAL AREAS OF QUALITY TOPSOIL TO BE PROTECTED DURING CONSTRUCTION ARE PRESENT.
- 4. NO CRITICAL SOIL LIMITATIONS (COMPACTION, WATER LOGGED SOILS OR WETLANDS, THIN, ERODED OREROSION PRONE SOILS) ARE PRESENT.
- 5. CONTRACTOR SHALL TEST SOIL AND PROVIDE SOIL ANALYSIS REPORT TO DESIGNER AND OWNER AFTER CONSTRUCTION IS COMPLETE AND BEFORE PLANTING IS INSTALLED.
- 6. CONDUCT SOIL SAMPLING IN ACCORDANCE WITH ALL LABORATORY PROTOCOLS.
- 7. THE SOIL TEST SHALL INCLUDE: SOIL TEXTURE, INFILTRATION RATE, PH, TOTAL SOLUBLE SALTS, SODIUM, ESSENTIAL
- NUTRIENTS. PERCENT ORGANIC MATTER AND RECOMMENDATIONS FOR ORGANIC AMENDMENTS AND COMPOST 8. SUBMIT SOIL TEST REPORT BY ACCREDITED SOILS LAB SOIL PLANT LAB. TAKE SAMPLES FROM A MINIMUM OF 3
- LOCATIONS (FRONT, MIDDLE AND BACK) OF SITE. FOLLOW SAMPLING INSTRUCTIONS FROM LAB. REQUEST ORGANIC AMENDMENTS.

#### 492.6 (a)(3): SOIL PREPARATION, MULCH AND AMENDMENTS

- 1. SOIL AMENDMENTS: APPLY ACCORDING TO THE RECOMMENDATIONS OF THE SOIL REPORT AND WHAT IS
- APPROPRIATE FOR THE PLANTS SELECTED.
- 2. COMPOST: APPLY A MINIMUM OF FOUR CUBIC YARDS OF ORGANIC OMRI CERTIFIED COMPOST PER 1,000 SQUARE FEET OF PERMEABLE AREA. 3. SOIL PREPARATION:
  - A. TOPDRESS PLANTING AREAS WITH A MINIMUM OF 6CY/1000 SF OF ORGANIC COMPOST TO THE ENTIRE PLANTING
- B. DO NOT TILL, TILLING DAMAGES SOIL STRUCTURE, RELEASES CARBON INTO THE ATMOSPHERE AND IMPACTS TREE MOISTURE CONTENT: DO NOT WORK ON OR AROUND THE SOIL WHEN MOISTURE CONTENT IS SO GREAT THAT
- COMPACTION WILL OCCUR, NOR WHEN IT IS SO DRY THAT DUST WILL FORM, OR WHEN SOIL CLODS WILL NOT BREAK READILY. APPLY WATER IF NECESSARY TO BRING SOIL TO OPTIMUM MOISTURE CONTENT TO COMPLETE THE SPECIFIED WORK. MULCH: APPLY A MINIMUM 3-INCH LAYER OF ORGANIC MULCH / ARBOR MULCH, ON ALL EXPOSED SOIL SURFACES
- FOR THE PURPOSE OF REDUCING EVAPORATION, SUPPRESSING WEEDS, MODERATING SOIL TEMPERATURE AND PREVENTING SOIL EROSION. CONTRACTOR SHALL SUBMIT DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT
  - RECOMMENDATIONS TO THE LOCAL AGENCY WITH CERTIFICATE OF COMPLETION

## 492.10: IRRIGATION SCHEDULING

DEVELOP SCHEDULING PARAMETERS TO CONSIDER:

- 1. FOR ZONES WITH DEEP ROOTED TREES SCHEDULE THE STATIONS TO RUN AT A LOW FREQUENCY AND LONG
- 2. FOR ZONES WITH MEDIUM ROOTED SHRUBS SCHEDULE THE STATIONS TO RUN AT A MEDIUM FREQUENCY AND MEDIUM DURATION
- 3. FOR ZONES WITH SHALLOW ROOTED GROUNDCOVERS SCHEDULE THE STATIONS TO RUN AT A HIGH FREQUENCY AND SHORT DURATION.

#### 490.1: APPLICABILITY

THIS PLAN SHEET IS FOR USE BY

NEW LANDSCAPES ≥ 500 SF. (IF BETWEEN 500 - 2,500 SF THE LOCAL AGENCY MAY

ALLOW TO COMPLY WITH PRESCRIPTIVE MEASURES IN APPENDIX D.)

REHABILITATED LANDSCAPES ≥ 2,500 SF.

TITLE 24, PART 11, CALIFORNIA GREEN BUILDING CODE (CALGREEN) https://codes.iccsafe.org/content/CAGBC2019JUL21S/cover

STATE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE: https://water.ca.gov/Programs/Water-Use-And-Efficiency/Urban-Water-Use-Efficiency/ Model-Water-Efficient-Landscape-Ordinance

PHASE 1: PRE-CONSTRUCTION SIGNATURES

REQUIRED AT BUILDING PERMIT PHASE

#### 492.3: LANDSCAPE DOCUMENTATION PACKAGE

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE.

APPLICANT SIGNATURE DATE

#### 492.6: LANDSCAPE DESIGN PLAN

I HAVE COMPLIED WITH THE CRITERIA OF CHAPTER 4.16 LANDSCAPE REQUIREMENTS OF THE ZONING CODE, INCLUDING ALL DESIGN STANDARDS AND APPLIED THEM FOR THE EFFICIENT

USE OF WATER IN THE LANDSCAPE DESIGN PLAN. 02/29/23 DATE SIGNATURE \* \*LICENSED LANDSCAPE ARCHITECT, LICENSED LANDSCAPE CONTRACTOR OR OTHER AUTHORIZED PERSON

#### 492.7: IRRIGATION DESIGN PLAN

OTHER PERSON AUTHORIZED TO DESIGN AN IRRIGATION SYSTEM

OR THE LICENSED LANDSCAPE CONTRACTOR

I HAVE COMPLIED WITH THE CRITERIA OF CHAPTER 4.16 LANDSCAPE REQUIREMENTS OF THE ZONING CODE, INCLUDING ALL DESIGN STANDARDS AND APPLIED THEM FOR THE EFFICIEN USE OF WATER IN THE IRRIGATION DESIGN PLAN.

02/29/23 DATE \*LICENSED LANDSCAPE ARCHITECT, CERTIFIED IRRIGATION DESIGNER, LICENSED LANDSCAPE CONTRACTOR, OR

## PHASE 2: POST-CONSTRUCTION SIGNATURES & ATTACHMENTS:

### 492.9 & APPENDIX C: CERTIFICATE OF COMPLETION

I CERTIFY THAT THE LANDSCAPE HAS BEEN INSTALLED PER THE APPROVED LANDSCAPE DOCUMENTATION PACKAGE.

SIGNATURE \* \*SIGNER OF THE LANDSCAPE DESIGN PLAN. THE SIGNER OF THE IRRIGATION DESIGN PLAN

ATTACH APPENDIX C

## 492.10 & APPENDIX C PART 3: IRRIGATION SCHEDULING

ATTACH PARAMETERS FOR SETTING THE IRRIGATION SCHEDULE ON CONTROLLER.

492.11 & APPENDIX C PART 4: MAINTENANCE SCHEDULE ATTACH SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE

## 492.12 & APPENDIX C PART 5: IRRIGATION AUDIT

LOCAL AGENCY OR THIRD PARTY CERTIFIED IRRIGATION AUDITOR SHALL PERFORM AUDIT. ATTACH LANDSCAPE IRRIGATION AUDIT REPORT.

## 492.5 & APPENDIX C PART 6: SOIL MANAGEMENT REPORT

ATTACH SOIL ANALYSIS REPORT

ATTACH DOCUMENTATION VERIFYING IMPLEMENTATION OF RECOMMENDATIONS FROM SOIL ANALYSIS REPOT

CONSTRUCTION DOCUMENTATION PLAN SHEETS, LEGEND, DETAILS AND SPECIFICATIONS

AGENCY STAMP

THIS SHEET IS FOR DOCUMENTATION OF THE STATE MANDATED WATER EFFICIENT LANDSCAPE REQUIREMENTS. THIS SHEET IS NOT FOR CONSTRUCTION. SEE THE FOLLOWING

D PANORAMIC DESIGN GROUP LANDSCAPE ARCHITECTURE

panoramicdesigngroup@gmail.com



**CLIENT:** 

HABITAT FOR HUMANITY EAST BAY SILICON VALLEY 2619 BROADWAY OAKLAND, CA 94612 ATTN: LAJUAN RAMSEY

PROJECT:

CASTRO STREET 98-100 CASTRO ST. SAN LEANDRO, CA 94577 APN #: 077-0550-011

SUBMITTAL:

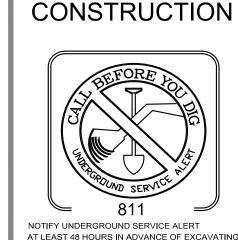
2-29-24

12-18-23 PLANNING APPROVAL

RESPONSE TO

COMMENTS

PRELIMINARY PLAN NOT FOR BIDDING OR

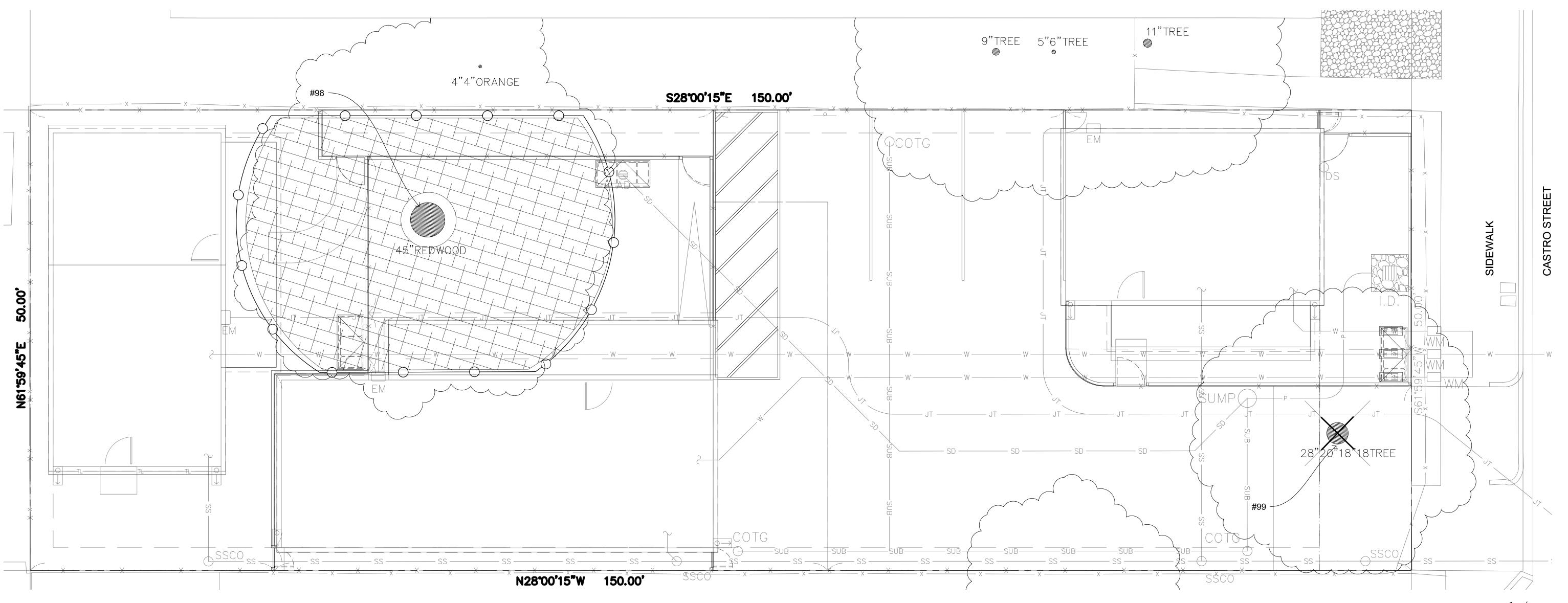


SHEET TITLE:

WATER **EFFICIENT** LANDSCAPE ORDINANCE DOCUMENTATION

SHEET #:

PLOT DATE: 240229





3 CHAINLINK FENCING

4 TREE PROTECTION SIGN, SEE DETAIL

#### (5) ARBOR MULCH

6 GRADE LEVEL RECTANGULAR METAL TUBING POST BASES

7 FINISH GRADE

(8) ROOT ZONE BELOW, VARIES

## BEST MANAGEMENT PRACTICES:

1. TREE ROOTS ARE INTERTWINED AND EXTEND FAR BEYOND DRIPLINE 2. COMPLY WITH ARBORICULTURAL BEST MANAGEMENT PRACTICES

VERIFY TREE LOCATIONS IN FIELD INSTALL TREE PROTECTION PRIOR

TO START OF ANY WORK ON SITE PLACE FENCE WHERE SHOWN ON TREE PROTECTION PLAN. VERIFY LOCATION WITH PROJECT ARBORIST

PRUNE REDWOOD BRANCHES UP TO CHIP BRANCHES ON SITE AND RETAIN

TO BE SPREAD AS ARBORMULCH IN TPZ

PROVIDE A 3-INCH DEPTH OF COMPOST OVER TPZ. SUBMIT SAMPLE TO PROJECT ARBORIST PRIOR TO INSTALLATION.

10. MAINTAIN A 6-INCH DEPTH OF ARBORMULCH OVER THE ENTIRE LANDSCAPE AREA FOR THE DURATION OF THE PROJECT. SUBMIT SAMPLE OF IMPORT ARBORMULCH TO PROJECT ARBORIST PRIOR TO INSTALLATION.

11. DO NOT USE GORILLA HAIR OR BARK MULCH.

10. ALLOW REDWOOD DUFF TO FALL FROM TREE AND REMAIN ON GROUND AS MULCH.

11. PREVENT ALL CONSTRUCTION ACTIVITIES AND PLACEMENT OF

## MATERIALS AND EQUIPMENT INSIDE

**FENCE** 12. PREVENT ALL VEHICULAR AND

PEDESTRIAN TRAFFIC INSIDE FENCE 13. INSPECT FENCE AND AREA INSIDE

FENCE REGULARLY TO ENSURE COMPLIANCE WITH PROTECTION GUIDELINES

14. HAND DIG ALL AREAS OF EXCAVATION IN TPZ

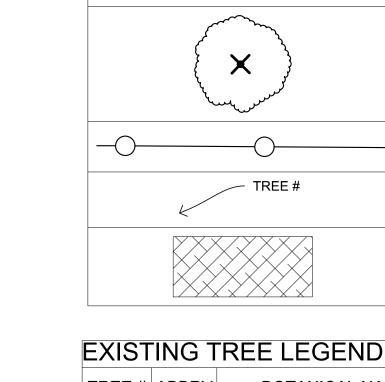
15. OBTAIN APPROVAL OF PROJECT ARBORIST FOR CUTTING OF ROOTS OR BRANCHES LARGER THAN 2 INCH DIAMETER

16. PROJECT ARBORIST TO PERFORM REGULAR OBSERVATIONS OF TREES TO NOTE HEALTH & CONSTRUCTION **IMPACTS** 

17. PROVIDE TEMPORARY IRRIGATION TO ALL TREES WITHIN THE FENCED AREA FOR THE DURATION OF THE PROJECT. PROVIDE WATERING SCHEDULE FOR OWNER'S REPRESENTATIVE REVIEW AND **APPROVAL** 

18. FENCE MAY BE ADJUSTED DURING CONSTRUCTION, WITH APPROVAL OF PROJECT ARBORIST.

19. TREE PROTECTION TO REMAIN IN PLACE UNTIL PROJECT COMPLETION, WITH APPROVAL OF PROJECT **ARBORIST** 



	11 10 1	THE LEGEND				
TREE #	ABBRV	BOTANICAL NAME	COMMON NA			
#98	SEQ	SEQUOIA SEMPERVIRENS	COAST REDWOOD			
#99	CED	CEDRUS DEODARA	DEODAR CED			
NO OTHER TREES FOUND ON SITE						

## TREE REMOVAL

CUT FLUSH TO GRADE. DO NOT GRIND OR REMOVE STUMP. IT PROVIDES IMPORTANT EROSION CONTROL, STORMWATER ABSORPTION AND SOIL NUTRIENTS AS IT DECOMPOSES.

TPR LEGEND	
SYMBOL	DESCRIPTION
	(E) TREE TO REMAIN
X	(E) TREE TO BE REMOVED
	TREE PROTECTION FENCING / LIMIT OF GRADING
TREE #	TREE CALLOUT. SEE SPECIES LEGEND.
	MULCH

TOEE	

DRIPLINE IS AS SHOWN ON SURVEY

CEDAR TO BE REMOVED FOR DEVELOPMENT.

CEDAR TO BE CHIPPED ON SITE. CHIPS TO BE STORED ONSITE OR SPREAD OVER ENTIRE SITE TO A DEPTH OF 1 FOOT TO REDUCE SOIL COMPACTION AND TO PROTECT REDWOOD TREE ROOTS WHICH COVER THE ENTIRE SITE.

GOOD

CONDITION DISPOSITION

REMAIN

REMOVE

(INCHES)

16,16,17,25 GOOD

TREE PROTECTION

CROSS SECTION OF ROOT ZONE

**BELOW** 

TREE PROTECTION ZONE SIGN

1) PROVIDE DURABLE WEATHER

LANGUAGES COMMONLY

CENTERLINE OF SIGNS AT 5'

(4) PROVIDE SIGNS AT CENTER OF

5 SECURELY ATTACH SIGN TO TPZ

EACH FENCE PANEL

PROOF SIGN

2 PROVIDE TEXT IN ALL

SPOKEN ON SITE

(3) PLACE HORIZONTAL

ABOVE GRADE

TPZ

TREE PROTECTION ZONE

THE TPZ MUST REMAIN CLEAR AND FREE OF ALL CONSTRUCTION MATERIALS AND PEDESTRIAN OR VEHICULAR TRAFFIC

HIS FENCE MUST REMAIN IN PLACE AND SIGN

MUST REMAIN ATTACHED DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD

OBTAIN APPROVAL OF PROJECT ARBORIST

PRIOR TO REMOVAL OF SIGN OR FENCE

PHONE NUMBER OF GENERAL CONTRACTOR PHONE NUMBER OF CONSTRUCTION PROJECT

PLOT DATE: 240229

SHEET #:

PANORAMIC DESIGN GROUP LANDSCAPE ARCHITECTURE

panoramicdesigngroup@gmail.com

HABITAT FOR HUMANITY

EAST BAY SILICON VALLEY

CASTRO STREET

SAN LEANDRO, CA 94577

12-18-23 PLANNING APPROVAL

COMMENTS

2-29-24 RESPONSE TO

PRELIMINARY

NOT FOR BIDDING

CONSTRUCTION

NOTIFY UNDERGROUND SERVICE ALERT

SHEET TITLE:

AT LEAST 48 HOURS IN ADVANCE OF EXCAVATING

TREE PROTECTION

& REMOVAL PLAN

PLAN

OR

98-100 CASTRO ST.

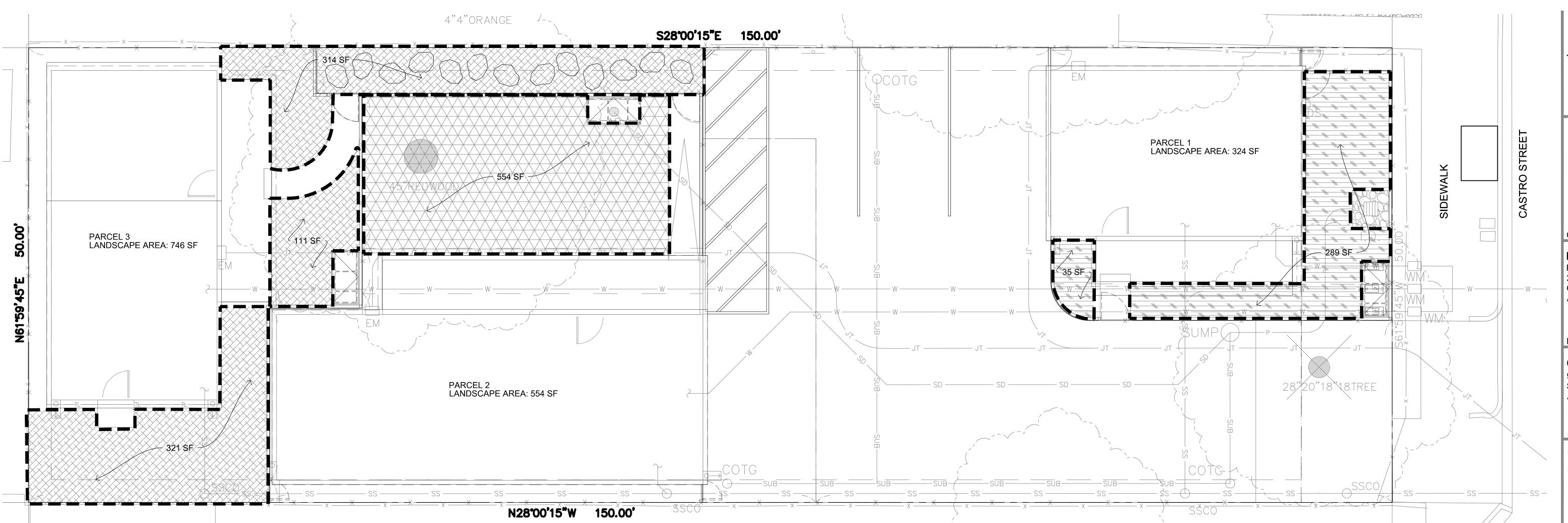
APN #: 077-0550-011

2619 BROADWAY OAKLAND, CA 94612 ATTN: LAJUAN RAMSEY

CLIENT:

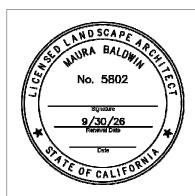
PROJECT:

SUBMITTAL:



LANDSCAPE AREA TABLE AREA (SF) PARCEL SYMBOL

PANORAMIC DESIGN GROUP LANDSCAPE ARCHITECTURE



HABITAT FOR HUMANITY EAST BAY SILICON VALLEY 2619 BROADWAY OAKLAND, CA 94612 ATTN: LAJUAN RAMSEY

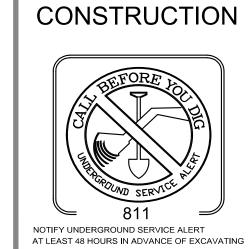
CASTRO STREET 98-100 CASTRO ST. SAN LEANDRO, CA 94577 APN #: 077-0550-011

SUBMITTAL:

12-18-23 PLANNING APPROVAL

2-29-24 RESPONSE TO COMMENTS

PRELIMINARY PLAN NOT FOR BIDDING

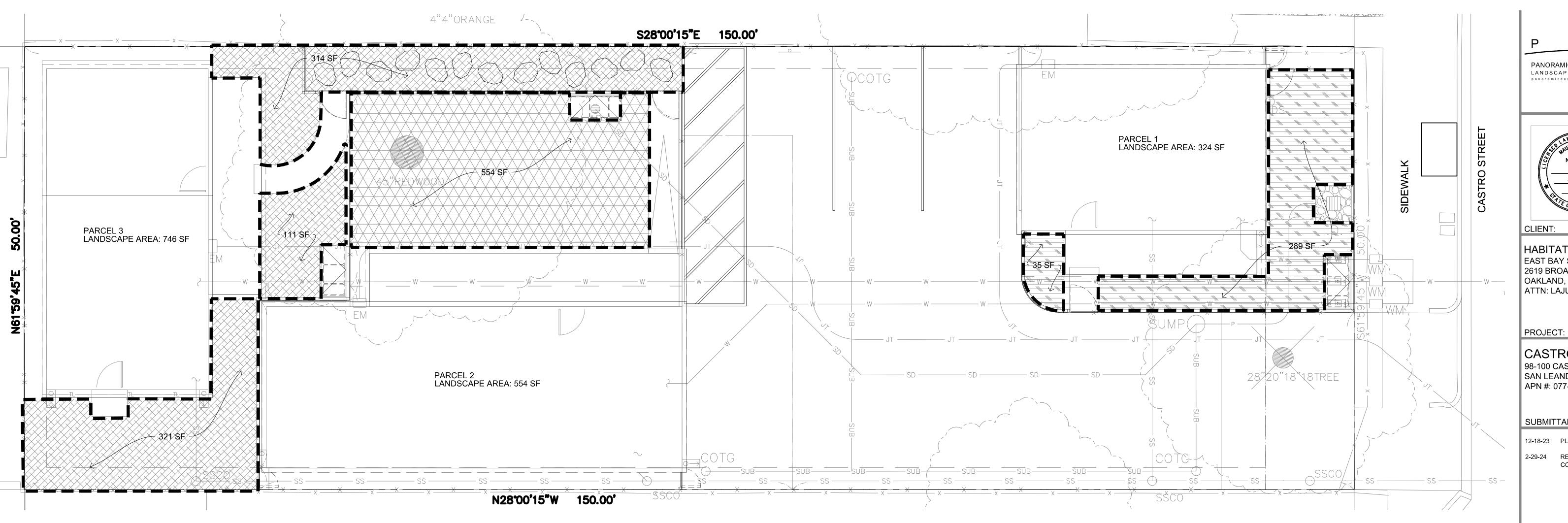


SHEET TITLE:

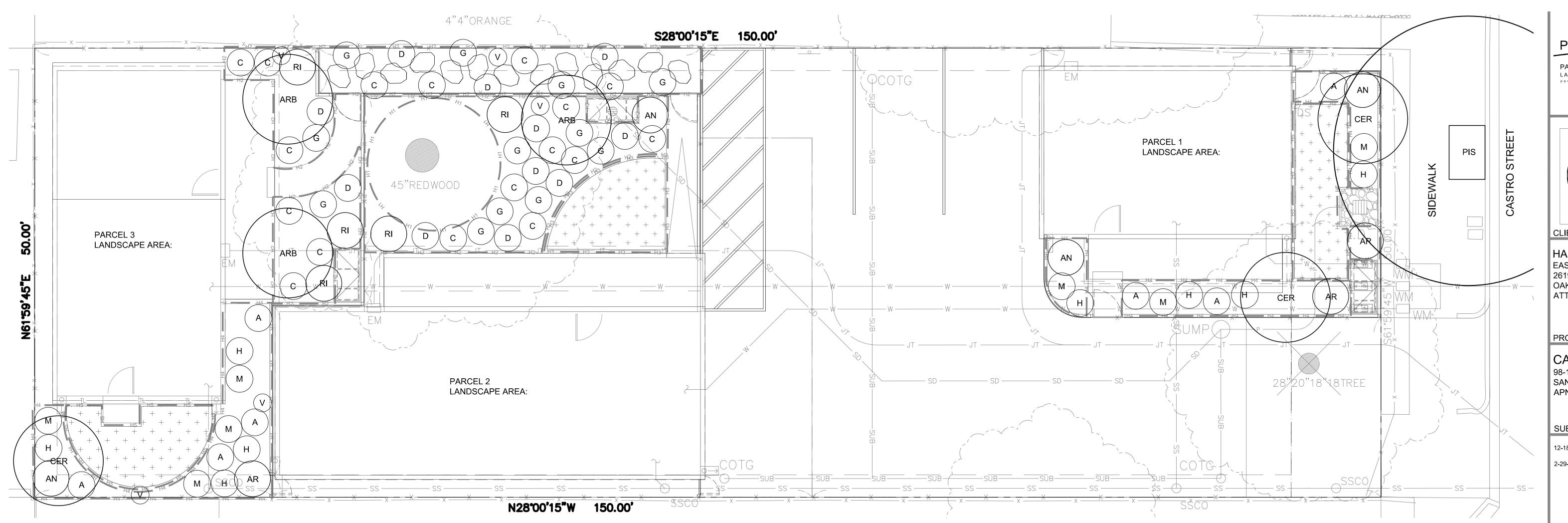
LANDSCAPE SITE PLAN AREA CALCS PER PARCEL

SHEET #:

PLOT DATE: 240229



TOTAL 1624



HYDROZONE TABLE							
— H1 — HYDROZONE AREA							
HYDROZONE #	PLANT TYPE	AREA (SF)	SOLAR EXPOSURE	WUCOLS WATER USE	ROOTING DEPTH		
H1	REDWOOD TREE	172	SOUTH - SUN	HIGH	DEEP		
H2	SHRUBS	690	NORTH - SHADE	LOW	MODERATE		
H3	LAWN - NATIVE, NO MOW	116	NORTH - SHADE	LOW	SHALLOW		
H4	TREES & SHRUBS	414	SOUTH - SUN	LOW	DEEP		
H5	LAWN - NATIVE, NO MOW	232	SOUTH - SUN	LOW	SHALLOW		
TOTAL		1624					
TREES TO BE IRRIGATED WITH SEPARATE DEDICATED VALVES							

SITE LEGEND		
SYMBOL	ITEM	MATERIAL
SITE ELEMENTS		
	STEPPING STONES	3" THICK NAPA BASALT OR SIMILAR

PLANT LEGE							
ABBREVIATION	BOTANICAL NAME	COMMON NAME	HXW (FT)	CONTAINER SIZE	WATER USE	NATIVE	QUANTITY
STREET TREE							
PIS	PISTACIA CHINENSE	CHINESE PISTACHE	30X30	24 INCH BOX	LOW		1
ACCENT TREE							
CER	CERCIS OCCIDENTALIS	WESTERN REDBUD	10X10	15 GAL	VERY LOW	Х	3
ARB	ARBUTUS UNEDO	STRAWBERRY TREE	10X10	15 GAL	LOW		3
MEDIUM SHRUBS							
RI	RIBES AUREUM	GOLDEN CURRANT	4X4	5 GAL	LOW	Х	5
AN	ANIGOZANTHOS FLAVIDUS	KANGAROO PAW	4X3	5 GAL	LOW		4
AR	ARCTOSTAPHYLOS SPP	MANZANITA	4X4	5 GAL	LOW	Х	3
SMALL SHRUBS							
A	ACHILLEA 'SALMON BEAUTY'	SALMON BEAUTY YARROW	2X3	1 GAL	LOW	Х	7
(c)	CAREX TUMULICOLA	BERKELEY SEDGE	2X3	1 GAL	LOW	Х	17

PLANT LEGE	ND						
ABBREVIATION	BOTANICAL NAME	COMMON NAME	HXW (FT)	CONTAINER SIZE	WATER USE	NATIVE	QUANTITY
D	DIPLACUS (MIMULUS) 'JELLY BEAN LEMON'	LEMON MONKEY FLOWER	2X3	1 GAL	LOW	X	11
G	GERANIUM BIOKOVO	PINK CRANESBILL	1X3	1 GAL	LOW		12
Н	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	3X3	1 GAL	LOW		8
M	MONARDELLA VISCOSA	COYOTE MINT	2X3	1 GAL	LOW	Х	7
VINES							
V	VITIS CALIFORNICA 'ROGERS RED'	CALIFORNIA GRAPE	15X15	1 GAL	LOW	Х	5
GROUNDCOVERS							
+ + + + + + + + + + + + + + + + + + + +	AGROSTIS PALENS	BENTGRASS	6" X SPREADI NG	SOD	LOW	Х	
NCN: NO COMMON	NAME						
WATER USE: WUC	OLS (WATER USE CLASSIFI	CATION OF LANDSCAPE S	SPECIES, UC	CDAVIS)			
SYMBOLS IN LEGE	ND MAY NOT BE TO SCALE						
						1	l

PANORAMIC DESIGN GROUP LANDSCAPE ARCHITECTURE



CLIENT:

HABITAT FOR HUMANITY EAST BAY SILICON VALLEY 2619 BROADWAY OAKLAND, CA 94612 ATTN: LAJUAN RAMSEY

PROJECT:

CASTRO STREET 98-100 CASTRO ST. SAN LEANDRO, CA 94577 APN #: 077-0550-011

SUBMITTAL:

12-18-23 PLANNING APPROVAL

2-29-24 RESPONSE TO COMMENTS

PRELIMINARY PLAN NOT FOR BIDDING CONSTRUCTION

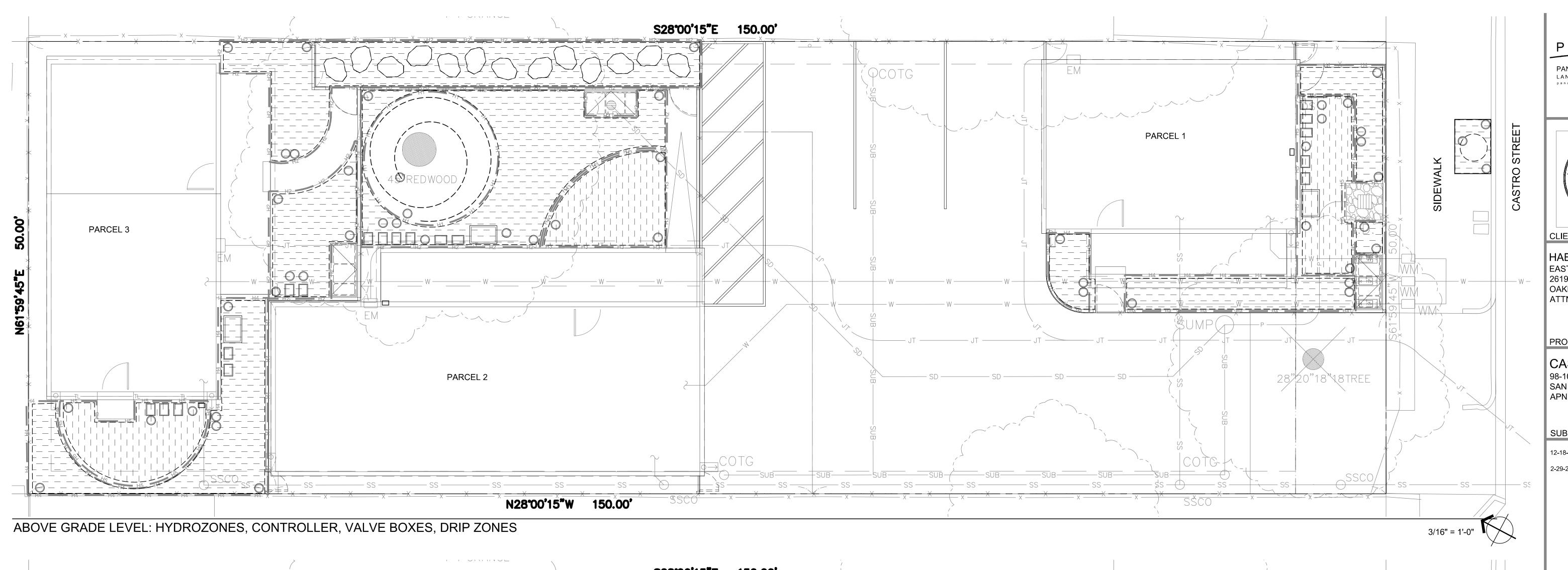


SHEET TITLE:

LANDSCAPE PLAN

SHEET #:

PLOT DATE: 240229



S28°00'15"E 150.00' EM PCOTG PARCEL 1 4\$PREDWOOD PARCEL 3 PARCEL 2 28"20"18"18TREE N28°00'15"W 150.00'

LANDSCAPE ARCHITECTURE panoramicdesigngroup@gmail.com



HABITAT FOR HUMANITY EAST BAY SILICON VALLEY 2619 BROADWAY OAKLAND, CA 94612 ATTN: LAJUAN RAMSEY

PROJECT:

CASTRO STREET 98-100 CASTRO ST. SAN LEANDRO, CA 94577 APN #: 077-0550-011

SUBMITTAL:

12-18-23 PLANNING APPROVAL

2-29-24 RESPONSE TO COMMENTS

PRELIMINARY PLAN NOT FOR BIDDING CONSTRUCTION



SHEET TITLE:

IRRIGATION PLAN

SHEET #:

L3.0

PLOT DATE: 240229

BELOW GRADE: HYDROZONES, POC EQUIPMENT, VALVES, PIPING, SLEEVES, DRIP TRANSITIONS, FLUSHOUTS

PSI	NOT YET AVAILABLE,	UNDEVELO	PED SITE	AT POC, VERIFY IN FIELD
SYMBOL	COMPONENT	MANUFACT	MODEL	NOTES / SIZE /
WEATHER	BASED CONTROLLER - MW	URER ELO REQURED	):	MATERIAL / COLOR
A six Atmospher P1234-By-4512 materials	CONTROLLER		PRO-HC	6 STATIONS
<b>A</b>	FLOW SENSOR / SUBMETER		HC-FLOW METER	
(A)	SENSOR	HUNTER	RAIN-CLIK	
	ENCLOSURE			PLASTIC OUTDOOR WALL MOUNT
EQUIPMEN	T AT THE POINT OF CONNE	CTION - MWEL	O REQUIRED:	7
H	HOSE BIBB	WATTS	SC8-2	3/4", TO BE INSTALLED BY PLUMBER
G	GATE VALVE	NIBCO	T-113	LEAD FREE LINE SIZE
Y	Y-STRAINER	WILKINS	SXL	LEAD FREE LINE SIZE
В	BACKFLOW PREVENTER			
P	PRESSURE REGULATOR	WATTS	LFN	LEAD FREE LINE SIZE
M	MASTER VALVE	BUCKNER	3200	LEAD FREE LINE SIZE
F	FLOW SENSOR / SUBMETER	HUNTER	HC-FLOW METER	LEAD FREE LINE SIZE
PIPE				7
	SLEEVE			NOT USED
<u></u> М1	MAINLINE (N)			SCH 40 PVC
L	LATERAL PIPE			SCH 40 PVC
——h—	HEADER PIPE	1		BLANK TUBING
—-f—	FOOTER PIPE			BLANK TUBING
DRIP IRRIG	ATION ZONE TO INCLUDE:	T	T	Ť
#	DRIP VALVE ASSEMBLY	HUNTER	ICZ LF DRIP CONTROL ZONE KIT WITH ICV REMOTE CONTROL VALVE, UNIONS AND ISOLATION VALVE	1" (MAX 20 GPM)
#d	TRANSITION TO DRIP ZONE	сиѕтом		WITH VALVE ZONE #. SEE DETAIL
Ð	DRIP FLUSHOUT	CUSTOM		SEE DETAIL
0	VALVE BOXES			BLACK
IRRIGATION	N METHOD:	1	Į.	I.
	TREE & SHRUBS	NETAFIM		0.6 GPH EMITTERS. EMITTER SPACING: 12 INCHES ROW SPACING: 12 INCHES ROTATION VARIES
	LAWN	NETAFIM		0.6 GPH EMITTERS. EMITTER SPACING: 12 INCHES ROW SPACING: 12 INCHES
				ROTATION VARIES
NOTE: ALL	EQUIPMENT AND PIPING TO	O BE 1"		ROTATION VARIES
NOTE: TRE	EQUIPMENT AND PIPING TO E AND SHRUB VALVES SHA S & SCHEDULES TO PROVID	ARE THE SAME		E DIFFERENT

VALVE LE	GEND			5 A		
CONTROL - LER	VALVE #	PLANT TYPE	HYDRO - ZONE	AREA (SF)	GPM	SIZE
Α	1	TREES (STREET & SITE)	H1	208	2.08	1"
	2	SHRUBS	H4	208	2.08	1"
	3	LAWN - NATIVE, NO MOW - SUN	H5	116	1.16	1"
В	1	REDWOOD TREE - EXST	H1	172	1.72	1"
	2	TREES	H4	266	2.66	1"
	3	SHRUBS	H4	266	2.66	1"
	4	LAWN - NATIVE, NO MOW - SUN	H5	116	1.16	1"
С	1	TREES - SHADE	H4	424	4.24	1"
	2	SHRUBS - SHADE	H4	424	5.24	1"
	3	TREES - SUN	H5	206	2.06	1"
	4	SHRUBS - SUN	H4	206	2.06	1"
	5	LAWN - NATIVE, NO MOW - SUN	H5	116	1.16	1"

#### NOTES: 1 VALVEZONE

1. VALVE ZONES MAY NOT BE THE SAME AS HYDROZONES. A HYDROZONE MAY BE SPLIT UP INTO MORE THAN ONE VALVES SHARE THE SAME DRIP CRIPS BUT USE DIFFERENT PROCESAMS.

2. TREE AND SHRUB VALVES SHARE THE SAME DRIP GRIDS BUT USE DIFFERENT PROGRAMS & SCHEDULES TO PROVIDE APPROPRIATE AMOUNTS OF WATER

## IRRIGATION SCHEDULES

IRRIGATIO	N SCHEE	IIIF	PROJECT	T: CASTRO	PLANT ESTABLISHMENT PERIOD (PEP)							
ANNUAL ETO:	41.8	OLL	IE or DU	0.85	WEEKLY ET0 (JULY)	1.40	LOTABLIOTII	WENT PERIOD	(1 L1 )			
	10		*				977 			åe .		
STATION / VALVE #	AREA (SF)	GPM	PEP PLANT WATER USE FACTOR (WUCOLS)	APPLICATION RATE / PRECIPITATION RATE (INCHES/HOUR)	WEEKLY RUN TIME (MINUTES)	DAYS PER WEEK	MINUTES PER DAY	HOURS PER WATERING DAY	Contract to tower a constitution of the contract of	WATERING AY		
CONTROLLER	A		4			n.			·			
1	208	2.08	0.80	0.96	82.35	3.00	27.45		57.10			
2	208	2.08	0.80	0.96	82.35	3.00	27.45		57.10			
3	116	1.16	0.80	0.96	82.35	3.00	27.45		31.84			
SUBTOTAL		5.32					82.35	1.37		146.04		
CONTROLLER	В											
1	172	1.72	0.80	0.96	82.35	3.00	27.45		47.22			
2	266	2.66	0.80	0.96	82.35	3.00	27.45		73.02			
3	266	2.66	0.80	0.96	82.35	3.00	27.45		73.02			
4	116	1.16	0.80	0.96	82.35	3.00	27.45		31.84			
SUBTOTAL		8.20					109.80	1.83		225.10		
CONTROLLER	С											
1	424	4.24	0.80	0.96	82.35	3.00	27.45		116.39			
2	424	4.24	0.80	0.96	82.35	3.00	27.45		116.39			
3	296	2.06	0.80	0.96	82.35	3.00	27.45		56.55			
4	206	2.06	0.80	0.96	82.35	3.00	27.45		56.55			
5	116	1.16	0.80	0.96	82.35	3.00	27.45		31.84			
SUBTOTAL		13.76		300000000000000000000000000000000000000			137.25	2.29	501 1070H of th	377.73		
TOTALS								5.49		748.86		

IRRIGATIO	N SCHED	ULE	PROJECT	FALL						
ANNUAL ET0:	41.8		IE or DU	0.85	WEEKLY ET0 (OCT)	0.69				
STATION /	AREA	GPM	PEP PLANT WATER	APPLICATION RATE /	WEEKLY	DAYS PER	MINUTES	HOURS	GALS PER	WATERIN
VALVE #	(SF)		USE FACTOR (WUCOLS)	PRECIPITATION RATE (INCHES/HOUR)	RUN TIME (MINUTES)	WEEK	PER DAY	PER WATERING DAY	DAY	
CONTROLLER	A		-1							
1	208	2.08	0.20	0.96	10.15	3.00	3.38		7.04	
2	208	2.08	0.20	0.96	10.15	3.00	3.38		7.04	
3	116	1.16	0.80	0.96	40.59	3.00	13.53		15.69	
SUBTOTAL		5.32					20.29	0.34		29.76
CONTROLLER	В									
1	172	1.72	0.70	0.96	35.51	3.00	11.84		20.36	
2	266	2.66	0.20	0.96	10.15	3.00	3.38		9.00	
3	266	2.66	0.20	0.96	10.15	3.00	3.38		9.00	
4	116	1.16	0.80	0.96	40.59	3.00	13.53		15.69	
SUBTOTAL		8.20					32.13	0.54		54.05
CONTROLLER	C									
1	424	4.24	0.20	0.96	10.15	3.00	3.38		14.34	
2	424	4.24	0.20	0.96	10.15	3.00	3.38		14.34	
3	296	2.06	0.20	0.96	10.15	3.00	3.38		6.97	
4	206	2.06	0.20	0.96	10.15	3.00	3.38		6.97	
5	116	1.16	0.80	0.96	40.59	3.00	13.53	*	15.69	
SUBTOTAL		13.76					27.06	0.45		58.3
TOTALS								1.32		142.1

IRRIGATIO	N SCHED	ULE	PROJECT	SPRING						
ANNUAL ET0:	41.8		IE or DU	0.85	WEEKLY ET0 (MAR)	0.63				
STATION / VALVE #	AREA (SF)	GPM	PEP PLANT WATER USE FACTOR (WUCOLS)	APPLICATION RATE / PRECIPITATION RATE (INCHES/HOUR)	WEEKLY RUN TIME (MINUTES)	DAYS PER WEEK	MINUTES PER DAY	HOURS PER WATERING DAY	GALS PER WATER DAY	
CONTROLLER	A		· · · · · · · · · · · · · · · · · · ·	,						
1	208	2.08	0.20	0.96	9.26	3.00	3.09		6.42	
2	208	2.08	0.20	0.96	9.26	3.00	3.09		6.42	
3	116	1.16	0.80	0.96	37.06	3.00	12.35		14.33	
SUBTOTAL		5.32					18.53	0.31		27.18
CONTROLLER I	В									
1	172	1.72	0.70	0.96	32.43	3.00	10.81		18.59	
2	266	2.66	0.20	0.96	9.26	3.00	3.09		8.21	
3	266	2.66	0.20	0.96	9.26	3.00	3.09		8.21	
4	116	1.16	0.40	0.96	18.53	3.00	6.18		7.16	
SUBTOTAL		8.20					23.16	0.39		42.19
CONTROLLER	С									1
1	424	4.24	0.20	0.96	9.26	3.00	3.09		13.09	
2	424	4.24	0.20	0.96	9.26	3.00	3.09		13.09	
3	296	2.06	0.20	0.96	9.26	3.00	3.09		6.36	
4	206	2.06	0.20	0.96	9.26	3.00	3.09		6.36	
5	116	1.16	0.40	0.96	18.53	3.00	6.18		7.16	
SUBTOTAL		13.76			700-500-500		18.53	0.31		46.08
TOTALS								1.00		115.44

IRRIGATIO	N SCHED	ULE	PROJECT	SUMMER						
ANNUAL ETO:	41.8		IE or DU	0.85	WEEKLY ET0 (JULY)	1.40				
STATION / VALVE #	AREA (SF)	GPM	PEP PLANT WATER USE FACTOR (WUCOLS)	APPLICATION RATE / PRECIPITATION RATE (INCHES/HOUR)	WEEKLY RUN TIME (MINUTES)	DAYS PER WEEK	MINUTES PER DAY	HOURS PER WATERING DAY	GALS PER WATERIN DAY	
CONTROLLER	A	<u>.</u>			***		-			
1	208	2.08	0.20	0.96	20.59	3.00	6.86		14.27	
2	208	2.08	0.20	0.96	20.59	3.00	6.86		14.27	
3	116	1.16	0.80	0.96	82.35	3.00	27.45		31.84	
SUBTOTAL		5.32					41.18	0.69		60.39
CONTROLLER	В									
1	172	1.72	0.70	0.96	72.06	3.00	24.02		41.31	
2	266	2.66	0.20	0.96	20.59	3.00	6.86		18.25	
3	266	2.66	0.20	0.96	20.59	3.00	6.86		18.25	
4	116	1.16	0.80	0.96	82.35	3.00	27.45		31.84	
SUBTOTAL		8.20					65.20	1.09		109.67
CONTROLLER	С									
1	424	4.24	0.20	0.96	20.59	3.00	6.86		29.10	
2	424	4.24	0.20	0.96	20.59	3.00	6.86	11	29.10	
3	296	2.06	0.20	0.96	20.59	3.00	6.86		14.14	
4	206	2.06	0.20	0.96	20.59	3.00	6.86		14.14	
5	116	1.16	0.80	0.96	82.35	3.00	27.45		31.84	
SUBTOTAL		13.76					54.90	0.92		118.31
TOTALS		S						2.69		288.37

IRRIGATIO	N SCHED	ULE	PROJECT	PROJECT: CASTRO			WINTER						
ANNUAL ETO:	41.8		IE or DU	0.85	WEEKLY ET0 (JAN)	0.34							
STATION / VALVE #	AREA (SF)	GPM	PEP PLANT WATER USE FACTOR (WUCOLS)	APPLICATION RATE / PRECIPITATION RATE (INCHES/HOUR)	WEEKLY RUN TIME (MINUTES)	DAYS PER WEEK	MINUTES PER DAY	HOURS PER WATERING DAY	GALS PER WATER DAY				
CONTROLLER	A		'			_		'					
1	208	2.08	0.20	0.96	5.00	3.00	1.67		3.47				
2	208	2.08	0.20	0.96	5.00	3.00	1.67		3.47				
3	116	1.16	0.80	0.96	20.00	3.00	6.67		7.73				
SUBTOTAL		5.32					10.00	0.17		14.67			
CONTROLLER	В	i.								St			
1	172	1.72	0.70	0.96	17.50	3.00	5.83		10.03				
2	266	2.66	0.20	0.96	5.00	3.00	1.67		4.43				
3	266	2.66	0.20	0.96	5.00	3.00	1.67		4.43				
4	116	1.16	0.80	0.96	20.00	3.00	6.67	2	7.73	9			
SUBTOTAL		8.20					15.83	0.26		26.63			
CONTROLLER	С												
1	424	4.24	0.20	0.96	5.00	3.00	1.67		7.07				
2	424	4.24	0.20	0.96	5.00	3.00	1.67		7.07				
3	296	2.06	0.20	0.96	5.00	3.00	1.67		3.43				
4	206	2.06	0.20	0.96	5.00	3.00	1.67		3.43				
5	116	1.16	0.80	0.96	20.00	3.00	6.67		7.73				
SUBTOTAL		13.76					13.33	0.22		28.73			
TOTALS								0.65		70.03			

### WATER MANAGEMENT PLAN

- EXISTING SITE CONDITIONS: THE SITE IS FLAT, WITH SOUTHERLY SOLAR EXPOSURE. IT IS SURROUND BY BUILDINGS WHICH HELP TO SHELTER IT FROM WIND, BUT WHICH REDUCE SOLAR EXPOSURE.
- ANNUAL PRECIPITATION RATES: AVERAGE ANNUAL PRECIPITATION IS 21 INCHES. THE RAINY SEASON IS ROUGHLY OCTOBER THROUGH MID-MAY. THE DRY SEASON IS ROUGHLY FROM MID-MAY THROUGH SEPTEMBER.
- ANTICIPATED WATER REQUIREMENTS IN INCHES FOR EACH HYDROZONE:

## IRRIGATION MAINTENANCE PLAN

- MONITOR THE WATER USE OF THE LANDSCAPE TO ENSURE THAT IT COMPLIES WITH ETWU.
- 2. REVIEW CONTROLLER PROGRAMS AND MAKE ADJUSTMENTS AS
- NEEDED.

  3. RUN EACH STATION AND INSPECT FOR RUNOFF, COVERAGE, LEAKS,
- WEAR AND TEAR.
- MAKE ADJUSTMENTS AND REPAIRS TO RESTORE FULL FUNCTIONALITY AND EFFICIENCY.
- REPLACEMENT OF EQUIPMENT TO USE NEW AND ORIGINAL MANUFACTURER PRODUCTS ONLY.
- ENSURE THAT ALL DRIP LINES ARE COVERED WITH 3 INCHES OF ARBORMULCH. DO NOT ALLOW ANY DRIPLINES TO BE EXPOSED TO
- UV RADIATION.

  7. DO NOT AERATE OR DETHATCH. THIS PRACTICE WILL PUNCTURE DRIPLINES.

P D G

PANORAMIC DESIGN GROUP
LANDSCAPE ARCHITECTURE
panoramicdesigngroup@gmail.com



CLIENT:

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PROJECT:

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SUBMITTAL:

12-18-23 PLANNING APPROVAL

2-29-24 RESPONSE TO COMMENTS

PRELIMINARY
PLAN
NOT FOR BIDDING
OR
CONSTRUCTION



NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 48 HOURS IN ADVANCE OF EXCAVATING

SHEET TITLE:

IRRIGATION LEGEND, NOTES, SCHEDULES

SHEET #:

L3.1

PLOT DATE: 240229