

LOCATION MAP  
SCALE: 1" = 500'

## BENCHMARK

VERTICAL DATUM: NAVD 88. ELEVATION WAS ESTABLISHED WITH GNSS OBSERVATION.

## BASIS OF BEARINGS

THE BEARING N61°40'00"E BETWEEN FOUND MONUMENTS ON GIANERA STREET AS SHOWN ON 682 MAPS 23 AND 833 MAPS 47 WAS USED AS BASIS OF BEARING.

## NOTE:

ALL DISTANCES AND DIMENSIONS SHOWN ARE IN FEET AND DECIMALS THEREOF UNLESS OTHERWISE NOTED.

## UTILITY NOTE

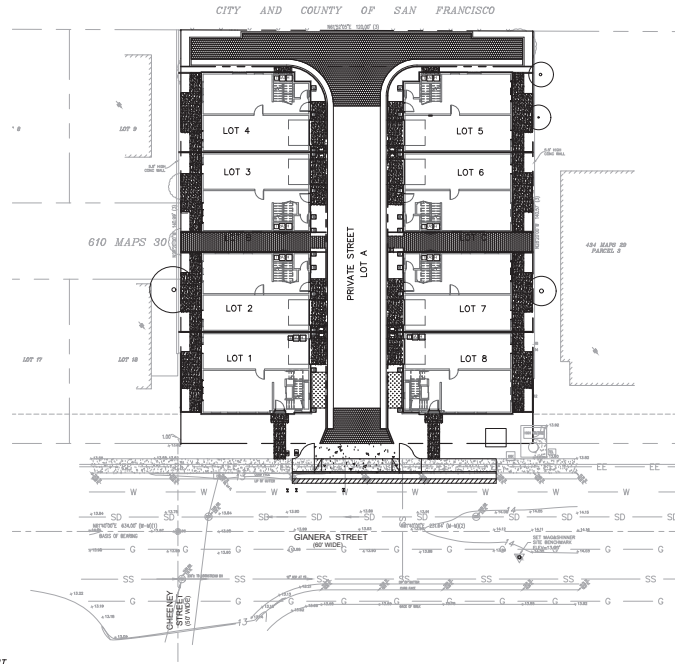
THE SURFACE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN COMPILED FROM RECORDS OF THE VARIOUS AGENCIES. THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR THEIR INDICATED LOCATION, SIZE, OR TYPE. RECORD UTILITY INFORMATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY.

## LEGEND

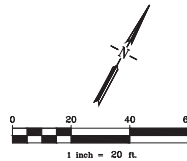
PROPOSED	DESCRIPTION	EXISTING
---	TRACT / LOT BOUNDARY	---
---	LOT LINE	---
---	CENTER LINE	---
---	EASEMENT LINE	---
---	STORM DRAIN	---
---	SANITARY SEWER	---
---	WATER	---
---	CURB & GUTTER	---
---	SIDEWALK	---
---	RETAINING WALL	---
---	STORM WATER INLET	---
---	FIELD INLET	---
---	DIRECTION OF FLOW	---
---	MANHOLE	---
---	FIRE HYDRANT	---
---	BLOW OFF	---
---	WATER VALVE	---
---	STREET LIGHT	---
---	FENCE	---
---	CONTOUR ELEVATIONS	---
---	SPOT ELEVATION	---

## ABBREVIATION

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
BW	BOTTOM OF WALL
CL	CENTER LINE
EX	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
GE	GARAGE ELEVATION
GB	GRADE BREAK
HP	HIGH POINT
INV	INVERT ELEVATION
P	PAD ELEVATION
PAE	PRIVATE ACCESS EASEMENT
PPAE	PRIVATE PEDESTRIAN ACCESS EASEMENT
PSDR	PRIVATE STORM DRAIN RELEASE EASEMENT
PSE	PUBLIC SERVICE EASEMENT
PUE	PUBLIC UTILITY EASEMENT
R/W	RIGHT OF WAY
R/YE	RECORDS YARD EASEMENT
SWK	SIDEWALK
SDE	STORM DRAIN EASEMENT
SSE	SANITARY SEWER EASEMENT
TC	TOP OF CURB
TP	TYPICAL
TW	TOP OF WALL
WLE	WATER LINE EASEMENT



## SITE PLAN



## PROJECT DATA

- OWNER: GIANERA ST ESTATE LLC  
1885 LUNDY AVE, SUITE 200  
SAN JOSE, CA  
CONTACT: V.C.I. ARCHITECTURE  
PHONE: 650 210 8800
- SUBDIVIDER: GIANERA ST ESTATE LLC  
1885 LUNDY AVE, SUITE 200  
SAN JOSE, CA  
CONTACT: V.C.I. ARCHITECTURE  
PHONE: 650 210 8800
- CIVIL ENGINEER: ZEM ENGINEERS INC.  
39116 FREMONT HUB #1045  
FREMONT CA 94539  
510-513-7795  
CONTACT: SIMON ZHANG
- ASSESSOR'S PARCEL NUMBERS: 104-06-037
- PROPERTY DESCRIPTION: ALL OF PARCEL 2, AS SHOWN ON THAT CERTAIN MAP ENTITLED, "PARCEL MAP OF A RESUBDIVISION OF PARCEL 2, SHOWN UPON THE PARCEL MAP FILED IN BOOK 424 OF MAPS, PAGES 31 AND 32," WHICH MAP WAS FILED FOR RECORD IN THE OFFICE OF THE RECORDER OF THE COUNTY OF THE SANTA CLARA, STATE OF CALIFORNIA ON JANUARY 16, 1976, IN BOOK 424 OF MAPS, PAGE(S) 29.
- EXISTING USE: RESIDENTIAL
- PROPOSED USE: RESIDENTIAL
- EXISTING ZONING: PD APPROVED IN 2007 FOR R3-180
- GENERAL PLAN LAND USE: RESIDENTIAL NEIGHBORHOOD
- PROPOSED ZONING: PLANNED DEVELOPMENT
- GROSS AREA: 0.388+ ACRES
- NET AREA: 0.388+ ACRES
- TOTAL NUMBER OF EXISTING UNITS: 1 RESIDENTIAL UNIT
- TOTAL NUMBER OF PROPOSED LOTS: 11 LOT (8 SINGLE-FAMILY LOTS & 3 HOA LOT)
- TOTAL NUMBER OF PROPOSED UNITS: 8 SINGLE FAMILY HOMES
- UTILITIES:
  - a. WATER: CITY OF SANTA CLARA
  - b. SANITARY SEWER: CITY OF SANTA CLARA
  - c. STORM DRAIN: CITY OF SANTA CLARA
  - d. GAS AND ELECTRIC: PACIFIC GAS AND ELECTRIC
  - e. TELEPHONE: AT&T
  - f. CABLE TV: COMCAST
- TOPOGRAPHIC INFORMATION SHOWN IS BASED ON FIELD SURVEY BY ZHEN'S LAND SURVEYING CORP. IN OCTOBER 2022.
- FLOOD ZONE: THE PROPERTY IS WITHIN ZONE X (AREAS WITH REDUCED FLOOD RISK DUE TO LEVEES) PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER, 06085C0064A, DATED MAY 18, 2009.

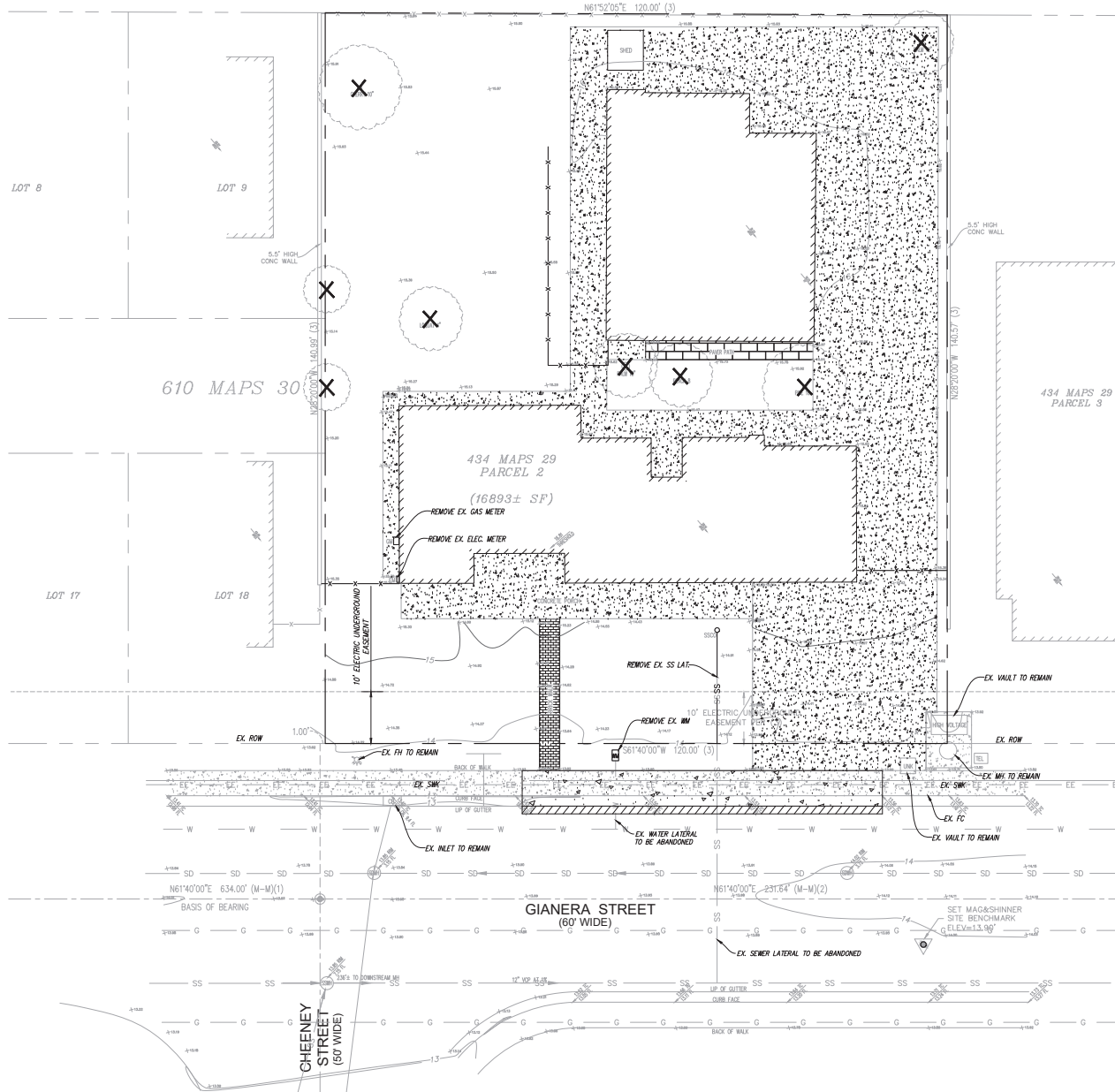
## SHEET INDEX

TM-01	TITLE SHEET
TM-02	EXISTING CONDITIONS AND DEMOLITION PLAN
TM-03	SITE PLAN
TM-04	LOTING PLAN
TM-05	PRELIMINARY GRADING AND DRAINAGE PLAN
TM-06	PRELIMINARY COMPOSITE UTILITY PLAN
TM-07	STORMWATER CONTROL PLAN
TM-08	STORMWATER CONTROL CALCULATIONS

REV	DATE	DESCRIPTION
11/29/2023		SUBMITTAL
01/26/2024		SUBMITTAL
03/28/2024		SUBMITTAL
ZEM ENGINEERS INC. 39116 FREMONT HUB #1045 FREMONT CA 94539 510-513-7795 ZEMENGINEERS.COM		
REGISTERED PROFESSIONAL ENGINEER No. 76988 CIVIL STATE OF CALIFORNIA		
TENTATIVE TRACT MAP TITLE SHEET 2303 GIANERA STREET SANTA CLARA, CA 95054		
This drawing is an instrument of service and shall not be used for any purpose other than the project and site shown hereon without the written consent of ZEM ENGINEERS INC. The Engineer's seal and signature shall be placed on this drawing and the Engineer's seal and signature shall be placed on this drawing and the Engineer's seal and signature shall be placed on this drawing.		
Date	03/28/2024	
Scale	AS SHOWN	
Drawn	JH	
Job	C22-0039	
Sheet	TM - 01 1 OF 8	



CITY AND COUNTY OF SAN FRANCISCO



LEGEND

- REMOVE EX. STRUCTURES
- REMOVE EX. SIDEWALK, C&G
- REMOVE EX. ON-SITE PAVEMENT
- REMOVE EX. ON-SITE CONCRETE PAVEMENT
- EX. SIDEWALK TO REMAIN
- SAWCUT
- REMOVE EX. TREE
- REMOVE EX. FENCE

REV	DATE	DESCRIPTION
11/29/2023		SUBMITTAL
01/26/2024		SUBMITTAL
03/28/2024		SUBMITTAL

**ZEM ENGINEERS INC.**  
3911 REDWOOD HUB #1045  
SAN FRANCISCO, CA 94114  
(415) 537-7700  
ZEMENGINEERS.COM

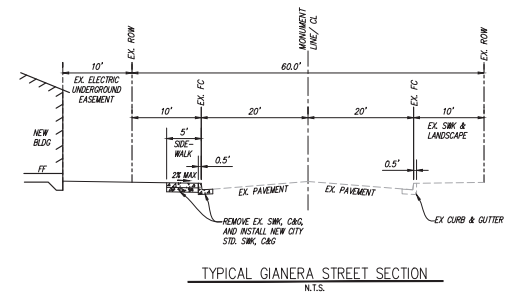
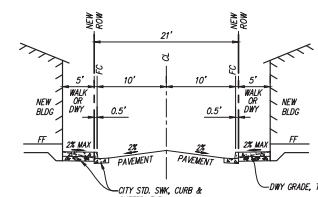
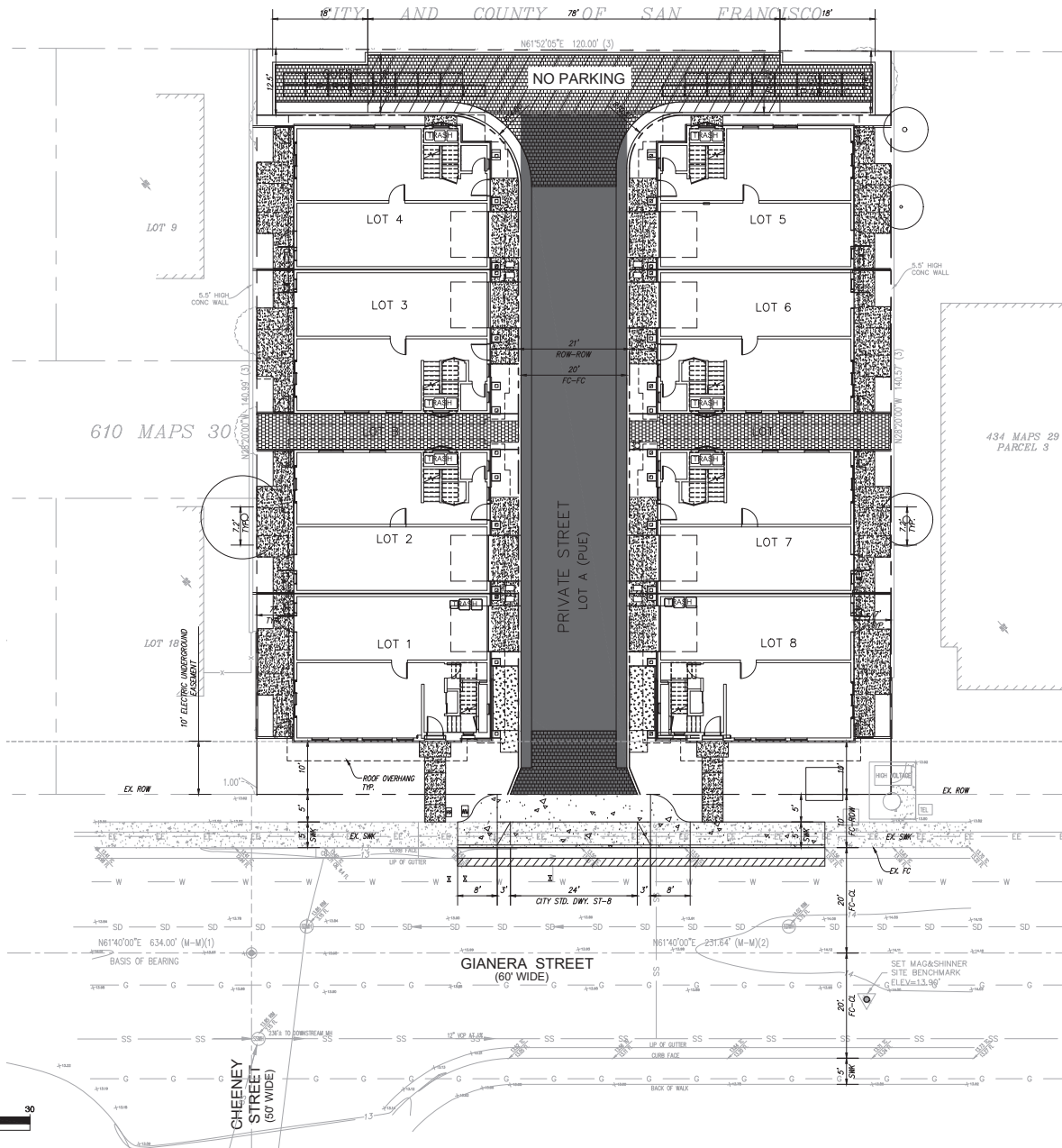


TENTATIVE TRACT MAP  
EXISTING CONDITION & DEMOLITION PLAN  
2303 GIANERA STREET  
SANTA CLARA, CA 95054

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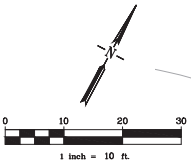
Date	03/28/2024
Scale	AS SHOWN
Drawn	JH
Job	C22.00.39
Sheet	TM - 02





LEGEND

- NEW EVAE FOR FIRE ACCESS
- NEW CITY STD. CONC. DRIVEWAY & SIDEWALK
- EX. CONC. CURB AND SIDEWALK
- SAW CUT AND CONFIRM
- STORM WATER TREATMENT AREA
- FIRE LADDER PAD



REV	DATE	DESCRIPTION
11/28/2023	11/28/2023	SUBMITTAL
01/28/2024	01/28/2024	SUBMITTAL
03/28/2024	03/28/2024	SUBMITTAL

ZEM ENGINEERS INC.  
3911 REDWOOD HILL ROAD  
SAN FRANCISCO, CA 94134  
(415) 577-7788  
ZEMENGINEERS.COM



TENTATIVE TRACT MAP  
SITE PLAN  
2303 GIANERA STREET  
SANTA CLARA, CA 95054

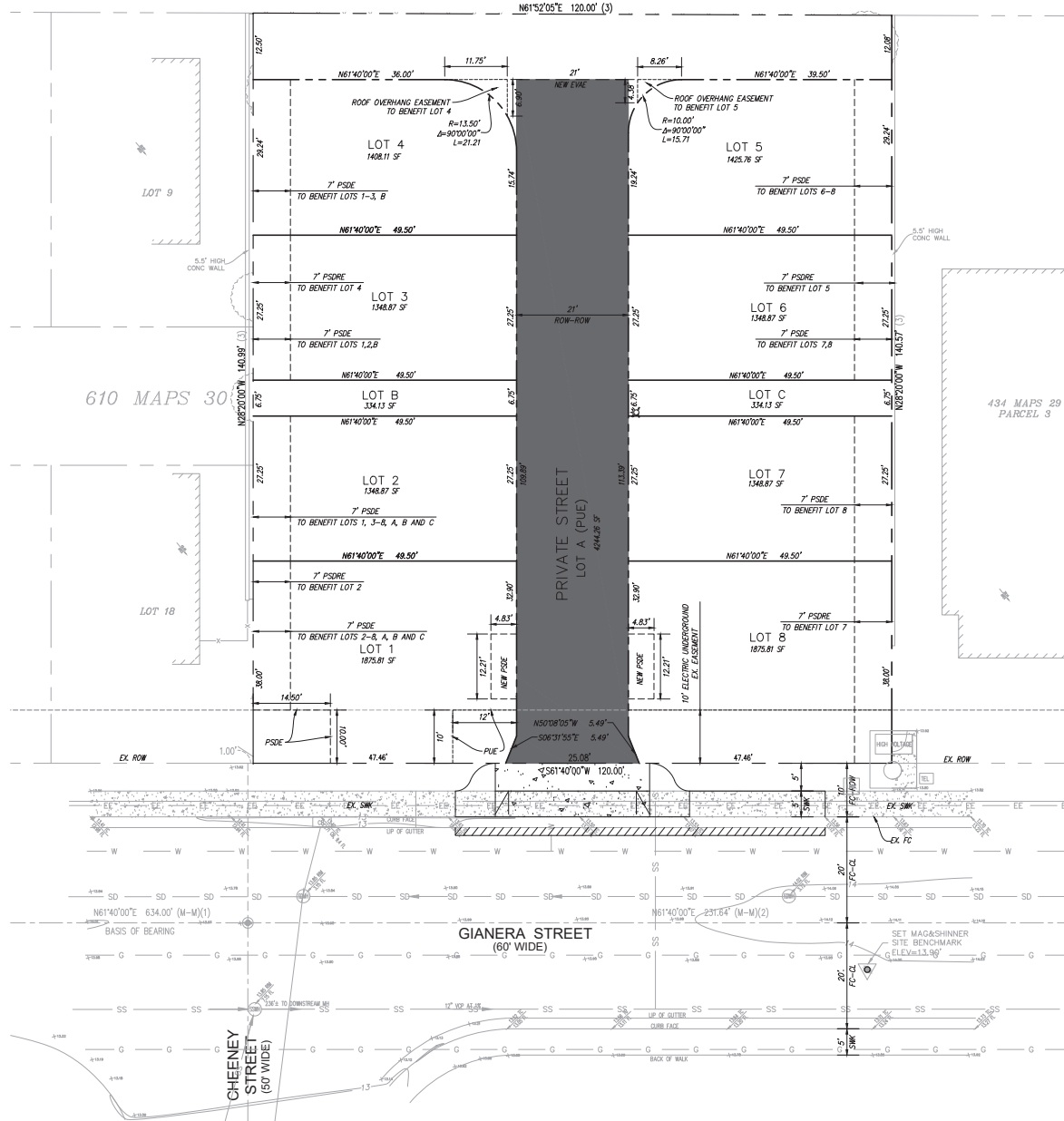
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Scale AS SHOWN  
Drawn JH  
Job C22.00.39  
Sheet

TM - 03  
3 OF 8



CITY AND COUNTY OF SAN FRANCISCO



LEGEND

	NEW EYAE AREA
	NEW INTERIOR LOT LINE
	SUBDIVISION BOUNDARY LINE
	NEW PRIVATE STREET ROW
	NEW PRIVATE EASEMENT, SEE PLAN FOR TYPES
	NEW EYAE
	EX. EASEMENT
	EMERGENCY VEHICLE ACCESS EASEMENT
	PRIVATE STORM DRAIN EASEMENT
	PRIVATE STORM DRAIN OVERLAND RELEASE EASEMENT
	PRIVATE UTILITY EASEMENT FOR WATER, SEWER, STORM DRAIN, AND JT
	EYAE
	PSDE
	PSDRE
	PUE

REV	DATE	DESCRIPTION
11/28/2023		SUBMITTAL
01/26/2024		SUBMITTAL
03/28/2024		SUBMITTAL

**ZEM ENGINEERS INC.**  
3911 REDWOOD HUB RD #104  
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(415) 577-7788  
ZEMENGINEERS.COM



TENTATIVE TRACT MAP  
LOTING PLAN  
2303 GIANERA STREET  
SANTA CLARA, CA 95054

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Scale AS SHOWN  
Drawn JH  
Job C22.00.39

Sheet  
**TM - 04**  
4 OF 8



610 MAPS 30

LOT 9

LOT 4

LOT 3

LOT 2

LOT 1

LOT 5

LOT 6

LOT 7

LOT 8

PRIVATE STREET LOT A

GIANERA STREET (60' WIDE)

CHEENEY STREET (60' WIDE)

434 MAPS 29 PARCEL 3

610 MAPS 30

LOT 9

LOT 4

LOT 3

LOT 2

LOT 1

LOT 5

LOT 6

LOT 7

LOT 8

PRIVATE STREET LOT A

GIANERA STREET (60' WIDE)

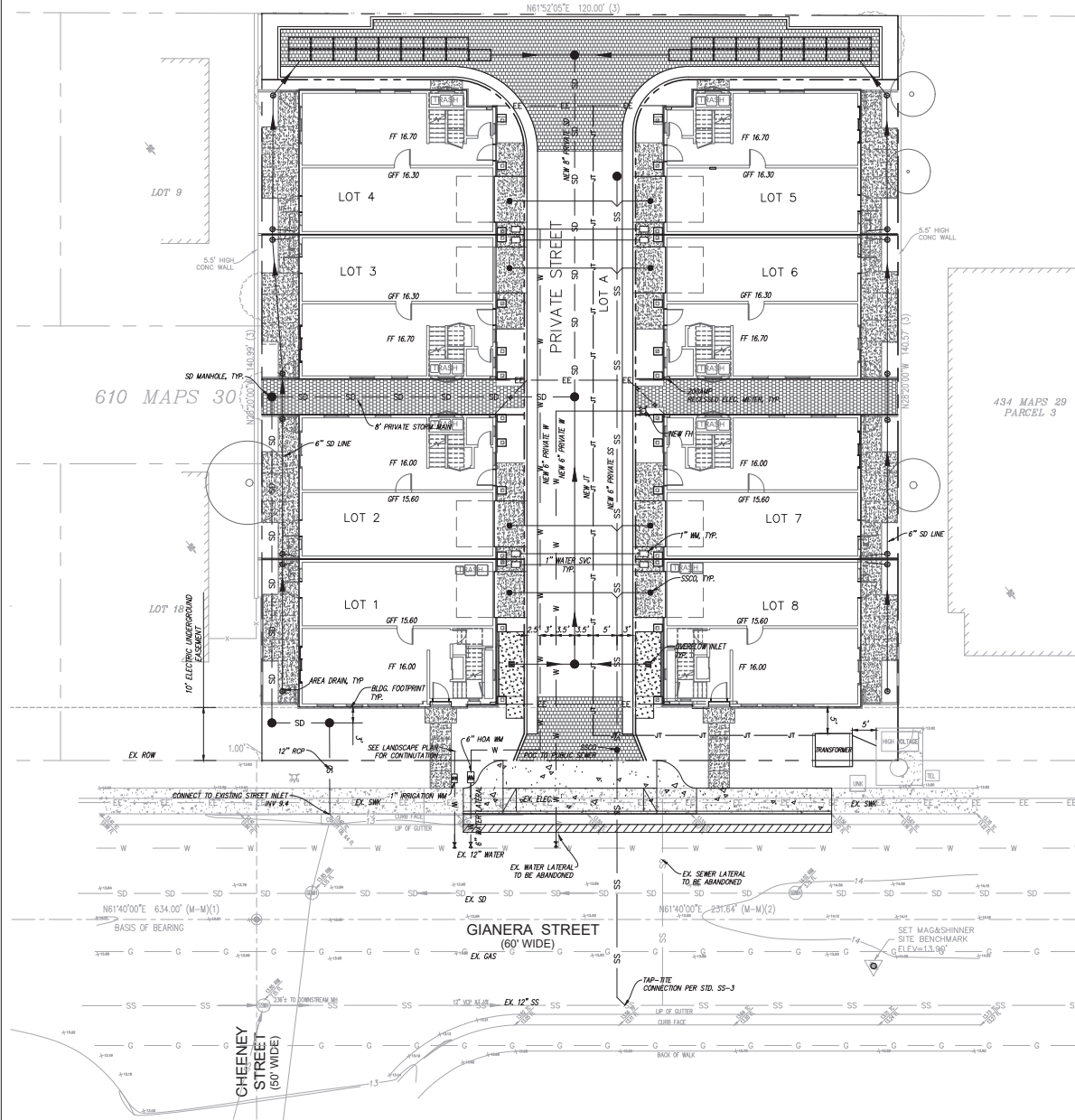
CHEENEY STREET (60' WIDE)

434 MAPS 29 PARCEL 3

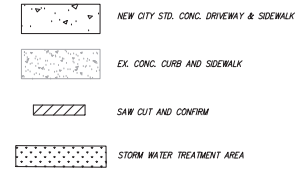
TM - 05



CITY AND COUNTY OF SAN FRANCISCO



LEGEND



NOTE

- UTILITY SIZES ARE PRELIMINARY AND WILL BE STUDIED LATER
- JT LAYOUT BY JT CONSULTANT

UTILITY SUMMARY TABLE

TYPE	DESCRIPTION	EXIST OR NEW	SIZE
WATER	LATERAL	EXISTING TO BE ABANDONED	UNKNOWN
WATER	PRIVATE MAIN	NEW	6"
WATER	SERVICE LINE	NEW	1"
STORM DRAIN	PRIVATE MAIN	NEW	8"
STORM DRAIN	PRIVATE SD	NEW	6"
SEWER	LATERAL	EXISTING TO BE ABANDONED	6"
SEWER	PRIVATE SS	NEW	6"

REV	DATE	DESCRIPTION
11/28/2023		SUBMITTAL
01/26/2024		SUBMITTAL
03/28/2024		SUBMITTAL

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3911 REDWOOD HUB RD #104  
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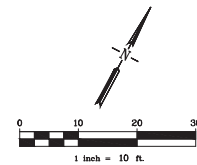


TENTATIVE TRACT MAP  
PRELIMINARY COMPOSITE UTILITY PLAN  
2303 GIANERA STREET  
SANTA CLARA, CA 95054

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TM - 06  
6 OF 8





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Date	03/28/2024
Scale	AS SHOWN
Drawn	JH
Job	C22.00.39
Sheet	TM - 07

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SIZING FOR VOLUME BASED TREATMENT	
DMA #	1
A=	6086.42 s.f.
Impervious Area =	5309.54 s.f.
% Imperviousness=	87.24%
MAPalte =	15
MAPage =	13.9
Correction Factor=	1.0791
Clay (D):	Sandy Clay (D): Clay Loam (D):
Silt Loam/Loam (B):	X
Not Applicable (100% Impervious):	X
Are the soils outside the building footprint graded/compacted?	yes Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay)	
Modified Soil Type: Silt Loam to Clay	

S=	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.50890366 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.52520206 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.50890366 [inches (Corrected Slope for the site)]
Adjusted UBS =	0.5491766 [inches]
Design Volume =	Adjusted UBS (Step 6) x Drainage Area (Step 1) x 18/12 inch
Design Volume =	278.54 ft <sup>3</sup>

COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	6.086 sq. ft.
Impervious Area =	5.310 sq. ft.
Penious Area =	777 sq. ft.
Equivalent Impervious Area =	78 sq. ft.
Total Equivalent Impervious =	5.387 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration =	Adjusted UBS (Step 6) / Rainfall Intensity
Duration =	2.7458831 hrs
Estimate the Surface Area =	154 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	176.19416 cu. ft.
Volume in Ponding Area =	102.34913 cu. ft.
Depth of Ponding =	0.6646047 ft. (Typically start with Total Impervious x 0.03)
Depth of Ponding =	8 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bioretention or Flow-Through Planters.	

SIZING FOR VOLUME BASED TREATMENT	
DMA #	3
A=	2360.5 s.f.
Impervious Area =	2137 s.f.
% Imperviousness=	90.53%
MAPalte =	15
MAPage =	13.9
Correction Factor=	1.07914
Clay (D):	Sandy Clay (D): Clay Loam (D):
Silt Loam/Loam (B):	X
Not Applicable (100% Impervious):	X
Are the soils outside the building footprint graded/compacted?	yes Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay)	
Modified Soil Type: Silt Loam to Clay	

S=	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.52726139 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.54451557 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.52726139 [inches (Corrected Slope for the site)]
Adjusted UBS =	0.56898711 [inches]
Design Volume =	Adjusted UBS (Step 6) x Drainage Area (Step 1) x 18/12 inch
Design Volume =	111.92 ft <sup>3</sup>

COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	2.361 sq. ft.
Impervious Area =	2.137 sq. ft.
Penious Area =	224 sq. ft.
Equivalent Impervious Area =	22 sq. ft.
Total Equivalent Impervious =	2.159 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration =	Adjusted UBS (Step 6) / Rainfall Intensity
Duration =	2.84493553 hrs
Estimate the Surface Area =	70 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	82.9772864 cu. ft.
Volume in Ponding Area =	28.947219 cu. ft.
Depth of Ponding =	0.4135317 ft. (Typically start with Total Impervious x 0.03)
Depth of Ponding =	5 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
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SIZING FOR VOLUME BASED TREATMENT	
DMA #	2
A=	6086.42 s.f.
Impervious Area =	5309.54 s.f.
% Imperviousness=	87.24%
MAPalte =	15
MAPage =	13.9
Correction Factor=	1.0791
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Design Volume =	Adjusted UBS (Step 6) x Drainage Area (Step 1) x 18/12 inch
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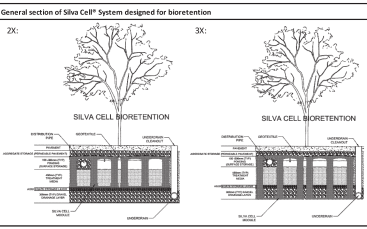
SIZING FOR VOLUME BASED TREATMENT	
DMA #	4
A=	2360.5 s.f.
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Silva Cell® Stormwater Design Tool	
Only enter data in shaded cells	
Outputs for design	
Design Parameter	Input
Project name:	Gianera_DMA1
Project location & address:	2303 Gianera St
Purpose for Silva Cell design:	Your name: ZEM Engineers
Contact email:	ZEM Engineers

Design Parameter	Value	Notes
Drainage Area, DA (ac)	0.14	DA from project plans (1 ac is 43,560 ft <sup>2</sup> )
Treatment Volume, V <sub>t</sub> (ft <sup>3</sup> )	176	V <sub>t</sub> from stormwater calculations
Silva Cell Configuration	2X	Select one 2X, 3X
Ponding / Surface Storage (in)	8	Select value between 0" to 12"
Treatment Media Depth (in)	23	Determined by SC configuration and surface storage
Permeable Paving Storage (in)	0	Min 0", Max. 12"
Aggregate Storage (in)	0	Min 0", Max. 12"
Gravel Drainage Layer Depth (in)	0	Minimum 0" depth



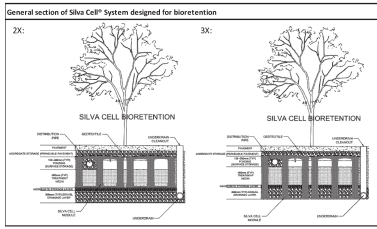
Credits / Accountable in design	Value	Notes
Permeable Paving Storage	No	Select 'Yes' if layer is accepted as part of credit calculation
Aggregate Storage	No	Select 'Yes' if layer is accepted as part of credit calculation
Silva Cell Surface Storage	Yes	Select 'Yes' if layer is accepted as part of credit calculation
Filter Media	Yes	Select 'Yes' if layer is accepted as part of credit calculation
Gravel Drainage Layer	No	Select 'Yes' if layer is accepted as part of credit calculation

Void Ratio (V <sub>v</sub> )	Value	Notes
Permeable Paving Storage	0.35	Typical value used - 0.35
Aggregate Storage	0.40	Typical value used - 0.40
Ponding / Surface Storage	0.92	See SC2 Tech Sheet for additional documentation
Treatment Media	0.25	Typical value used - 0.25
Gravel Drainage Layer	0.40	Typical value used - 0.40

Design Parameter	Value
Design Storage Depth (in)	13.1
Design Surface Area, SA (ft <sup>2</sup> )	163
Number of Silva Cell Units (see)	17
SA/DA percentage	2.6%
Soil Volume (ft <sup>3</sup> )	309

Silva Cell® Stormwater Design Tool	
Only enter data in shaded cells	
Outputs for design	
Design Parameter	Input
Project name:	Gianera_DMA2
Project location & address:	2303 Gianera St
Purpose for Silva Cell design:	Your name: ZEM Engineers
Contact email:	ZEM Engineers

Design Parameter	Value	Notes
Drainage Area, DA (ac)	0.14	DA from project plans (1 ac is 43,560 ft <sup>2</sup> )
Treatment Volume, V <sub>t</sub> (ft <sup>3</sup> )	176	V <sub>t</sub> from stormwater calculations
Silva Cell Configuration	2X	Select one 2X, 3X
Ponding / Surface Storage (in)	8	Select value between 0" to 12"
Treatment Media Depth (in)	23	Determined by SC configuration and surface storage
Permeable Paving Storage (in)	0	Min 0", Max. 12"
Aggregate Storage (in)	0	Min 0", Max. 12"
Gravel Drainage Layer Depth (in)	0	Minimum 0" depth



Credits / Accountable in design	Value	Notes
Permeable Paving Storage	No	Select 'Yes' if layer is accepted as part of credit calculation
Aggregate Storage	No	Select 'Yes' if layer is accepted as part of credit calculation
Silva Cell Surface Storage	Yes	Select 'Yes' if layer is accepted as part of credit calculation
Filter Media	Yes	Select 'Yes' if layer is accepted as part of credit calculation
Gravel Drainage Layer	No	Select 'Yes' if layer is accepted as part of credit calculation

Void Ratio (V <sub>v</sub> )	Value	Notes
Permeable Paving Storage	0.35	Typical value used - 0.35
Aggregate Storage	0.40	Typical value used - 0.40
Ponding / Surface Storage	0.92	See SC2 Tech Sheet for additional documentation
Treatment Media	0.25	Typical value used - 0.25
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Design Parameter	Value
Design Storage Depth (in)	13.1
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REV	DATE	DESCRIPTION
1	11/29/2023	SUBMITAL
2	01/30/2024	SUBMITAL
3	03/28/2024	SUBMITAL







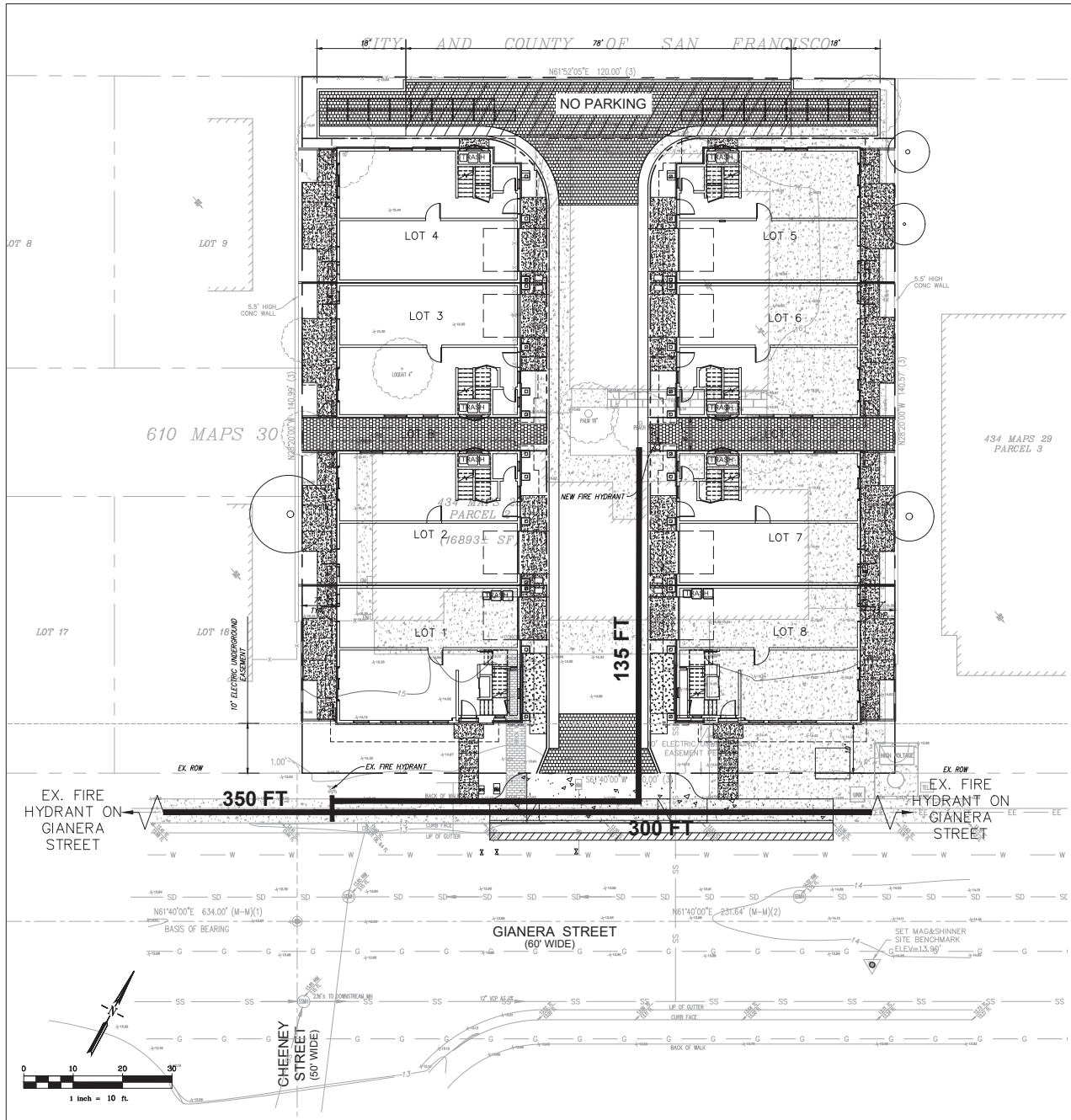
TENTATIVE TRACT MAP  
STORMWATER CONTROL CALCULATIONS  
2303 GIANERA STREET  
SANTA CLARA, CA 95054




This drawing is an instrument of service and shall not be used for any purpose other than that for which it was prepared. It is the responsibility of the user to verify the accuracy of the information provided and to obtain the necessary permits and approvals for the project. The user shall indemnify and hold the engineer harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, arising out of or from the use of this drawing, whether or not such claims, damages, and expenses are caused in whole or in part by the negligence of the engineer.

Date	03/28/2024
Scale	AS SHOWN
Drawn	JH
Job	C22.00.39
Sheet	TM - 08
	8 OF 8





**FIRE FLOW/HYDRANT CALCULATION:**

BUILDING TYPE: V-A RESIDENTIAL

NUMBER OF STORIES: 2

OCCUPANCY GROUP: R3

AUTOMATIC SPRINKLER SYSTEM: NFPA 13D (PER CFC 903.3.1.1)

TOTAL AREA OF LARGEST BUILDING (LOT 1 & 8): 4,987.5 SQFT

FIRE FLOW CALCULATIONS (PER CFC APPENDIX B):  
PER TABLE B105.1(2) TYPE V-A 4,987.5 SQFT FIRE FLOW=1,500 GPM FOR 2 HOURS  
HOUSE SPRINKLER SYSTEM NFPA 13D THEREFORE PER B105.1(1):  
FIRE FLOW = 750 GPM FOR 1 HOUR

REQUIRED HYDRANTS (PER CFC APPENDIX C):

FIRE FLOW = 750 GPM

TABLE C102.1  
REQUIRED NUMBER AND SPACING OF FIRE HYDRANTS

FIRE-FLOW REQUIREMENT (gpm)	MINIMUM NUMBER OF HYDRANTS	AVERAGE SPACING BETWEEN HYDRANTS <sup>a, b, c, d, e</sup> (feet)	MAXIMUM DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT <sup>d, f, g</sup>
1,750 or less	1	500	250
2,000-2,250	2	450	225
2,500	3	450	225
3,000	3	400	225
3,500-4,000	4	350	210
4,500-5,000	5	300	180
5,500	6	300	180
6,000	6	250	150
6,500-7,000	7	250	150
7,500 or more	8 or more <sup>h</sup>	200	120

ONE (1) HYDRANT REQUIRED FOR 750 GPM FIRE FLOW FOR 1 HOUR WITH SPACING NOTED ABOVE IN TABLE C102.1

**DESIGN CONCLUSIONS:**

DISTANCE FROM EXISTING HYDRANT TO FURTHEST LOT'S FRONTAGE (LOT 4 AND 5)  
= 185 FEET (MAX 250 FEET PER CFC)

DISTANCE BETWEEN FIRE HYDRANTS  
= 350 FEET AND 300 FEET (MAX 500 FEET PER CFC)

REV. DATE. DESCRIPTION.

11/29/2023. SUBMITTAL.

01/20/2024. SUBMITTAL.

03/28/2024. SUBMITTAL.

ZEM ENGINEERS INC.

3911 REDWOOD HUB ROAD

SANTA CLARA, CA 95054

(408) 610-0170

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REGISTERED PROFESSIONAL ENGINEER

NO. 78988

CIVIL

STATE OF CALIFORNIA

TENTATIVE TRACT MAP

FIRE EXHIBIT

2303 GIANERA STREET

SANTA CLARA, CA 95054

This drawing is an instrument of service and shall not be used for any purpose other than that intended by the Engineer. It is the responsibility of the user to ensure that the drawing is used in accordance with the terms of the contract. The Engineer's responsibility is limited to the design and construction of the fire hydrant system. The user shall be responsible for obtaining all necessary permits and for ensuring that the system is installed and maintained in accordance with the applicable codes and standards.

Date. 03/28/2024

Scale. AS SHOWN

Drawn. JH

Job. C22-00.39

Sheet. TM - 09