

LOCATION MAP

#### **BENCHMARK**

VERTICAL DATUM: NAVO 88. ELEVATION WAS ESTABLISHED WITH GNSS

### BASIS OF BEARINGS

THE BEARING NG1'40'00"E BETWEEN FOUND MONUMENTS ON GIANERA STREET AS SHOWN ON 682 MAPS 23 AND 833 MAPS 47 WAS USED AS BASIS OF BEARING.

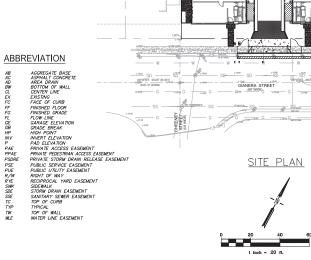
ALL DISTANCES AND DIMENSIONS SHOWN ARE IN FEET AND DECIMALS THEREOF UNILESS OTHERWISE NOTED.

#### UTILITY NOTE

THE SURFACE UTLITIES SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURFIEY. THE UNDERFORMED UTLITIES SHOWN HAVE BEEN COMPILED FROM RECORDS OF THE WINDLY ABOUTED. THE SURFECT ASSUMES ON REPOSSIBILITY FOR THEM MIGHAEL COATION, SZE, OR TYPE, RECORD UTLITY INFORMATION SHOULD BE CONTRIBED BY EXPOSSIBILITY.

#### LEGEND

PROPOSED	DESCRIPTION	EXISTING
	TRACT / LOT BOUNDARY LOT LINE CENTER LINE EASEMENT LINE	
	STORM DRAIN SANITARY SEWER WATER CURB & GUTTER	
X 3.22.24 X 3.22.24 X 3.22	SIDEWALK RETAINING WALL	
• • •	STORM WATER INLET FIELD INLET DIRECTION OF FLOW MANHOLE FIRE HYDRANT BLOW OFF	Δ 0
H	WATER VALVE STREET LIGHT FENCE	—×——×—
x 525.2	CONTOUR ELEVATIONS SPOT ELEVATION	/30 ×525.2



# TENTATIVE TRACT MAP

2303 GIANERA STREET SANTA CLARA, SANTA CLARA COUNTY, CALIFORNIA

CITY AND COUNTY OF SAN FRANCISCO

LOT 4

5.8" HON COMO MAL

610 MAPS 30

#### PROJECT DATA

1. OWNER:

GIANERAL ST ESTATE LLC 1885 LUNDY AVE, SUITE 200 SAN JOSE, CA CONTACT: V.C.I. ARCHITECTURE PHONE: 650 210 8800

GIANERAL ST ESTATE LLC 1885 LUNDY AVE, SUITE 200 SAN JOSE, CA CONTACT: V.C.I. ARCHITECTURE PHONE: 650 210 8800 2. SUBDINDER:

ZEM ENGINEERS INC. 39116 FREMONT HUB #1045 FREMONT CA 94538 510-513-7795 CONTACT: SIMON ZHANG

4. ASSESSOR'S PARCEL NUMBERS:

5. PROPERTY DESCRIPTION:

ALL OF PARCEL 2, AS SHOWN ON THAT CERTAIN MAP ENTITLED, "PARCEL MAP OF A RESUBDIVISION OF PARCEL B, SHOWN UPON THE PARCEL MAP FILED IN BOOK 494 OF MAPS, PAGES 21 AND 22", WHO'N MAP WAS RELED FOR RECORDER OF THE RECORDER OF THE COUNTY OF THE SANTA CLARA, STATE OF CALFORNIA ON JANUARY 18, 1979, IN BOOK 434 OF MAPS, PAGE(S) 29.

6. EXISTING USE: RESIDENTIAL

7. PROPOSED USE: RESIDENTIAL

8. EXISTING ZONING: PD APPROVED IN 2007 FOR R3-180 RESIDENTIAL NEIGHBORHOOD 9. GENERAL PLAN LAND USE 10 PROPOSED ZONING PLANNED DEVELOPMENT 11. GROSS AREA: 0.388± ACRES

O TARY ACRES 13. TOTAL NUMBER OF EXISTING UNITS 1 RESIDENTIAL UNIT

14. TOTAL NUMBER OF PROPOSED LOTS 11 LOT (8 SINGLE-FAMILY LOTS & 3 HOA LOT)

15. TOTAL NUMBER OF PROPOSED UNITS: 8 SINGLE FAMILY HOMES

16. UTILITIES
a. WATER:
b. SAMITARY SEWER:
c. STORM DRAIN:
d. GAS AND ELECTRIC:
e. TELEPHONE:
f. CABLE TV: CITY OF SANTA CLARA CITY OF SANTA CLARA CITY OF SANTA CLARA PACIFIC GAS AND ELECTRIC AT&T 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 LEVEE) PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER, 06085C0064H, DATED MAY 18, 2009.

### SHEET INDEX

TITLE SHEET

EXISTING CONDITIONS AND DEMOLITION PLAN SITE PLAN

LOTTING PLAN TM-04

PRELIMINARY GRADING AND DRAINAGE PLAN PRELIMINARY COMPOSITE UTILITY PLAN

TM-07 STORMWATER CONTROL PLAN This only exclu No re made the SEM shall shall response

REV DATE DESCRIPTION 11/29/2023 SUBMITTAL 01/30/2024 SUBMITTAL 03/28/2024 SUBMITTAL

ZEM ENGINEERS INC. 3916 FRENONT HIB #1045 FRENONT CA 94588 FRENONT CA 94588

2303 GIANERA STREET SANTA CLARA, CA 95054 TENTATIVE TRACT MAP TITLE SHEET

Date 03/28/2024

Scale AS SHOWN

Drawn JH

Job

TM - 01 1 OF 8

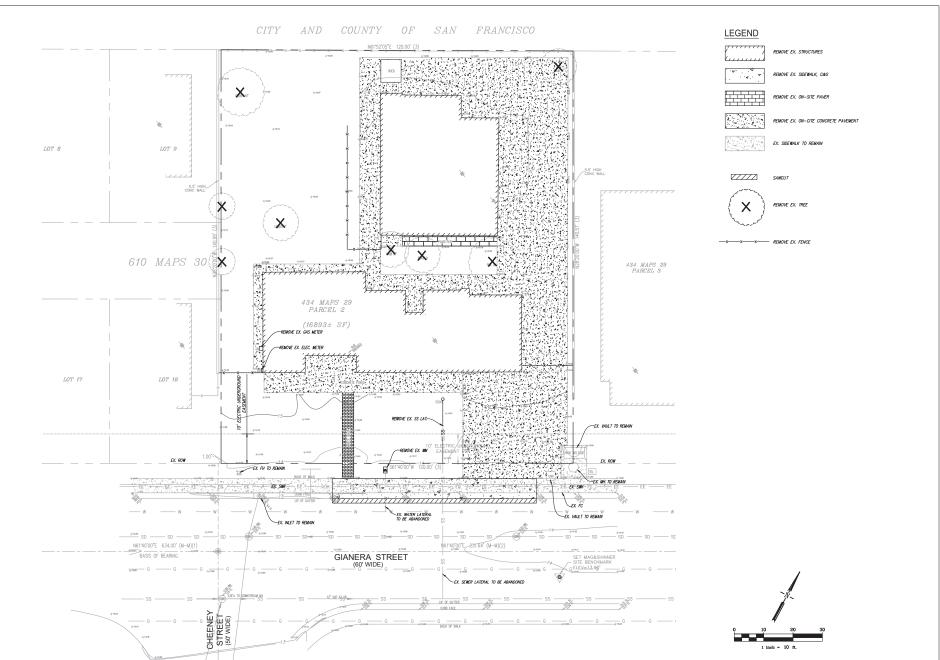
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454 MAPS 20 PARCEL 8

LOT 7 LOT 8

LOT 5





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

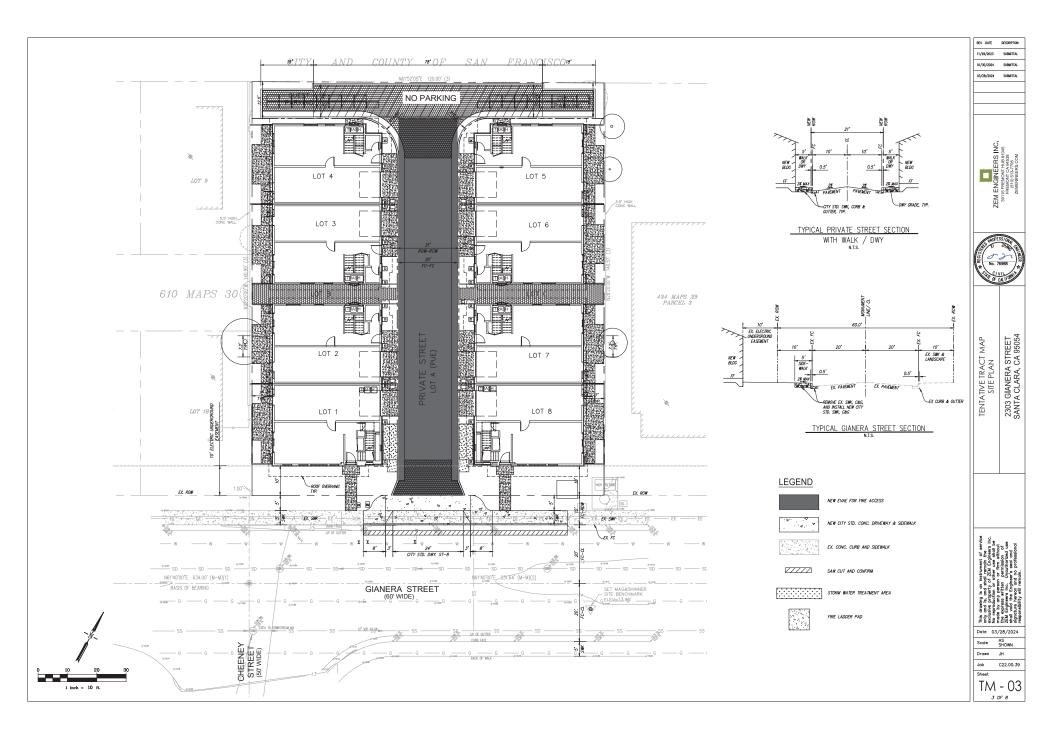
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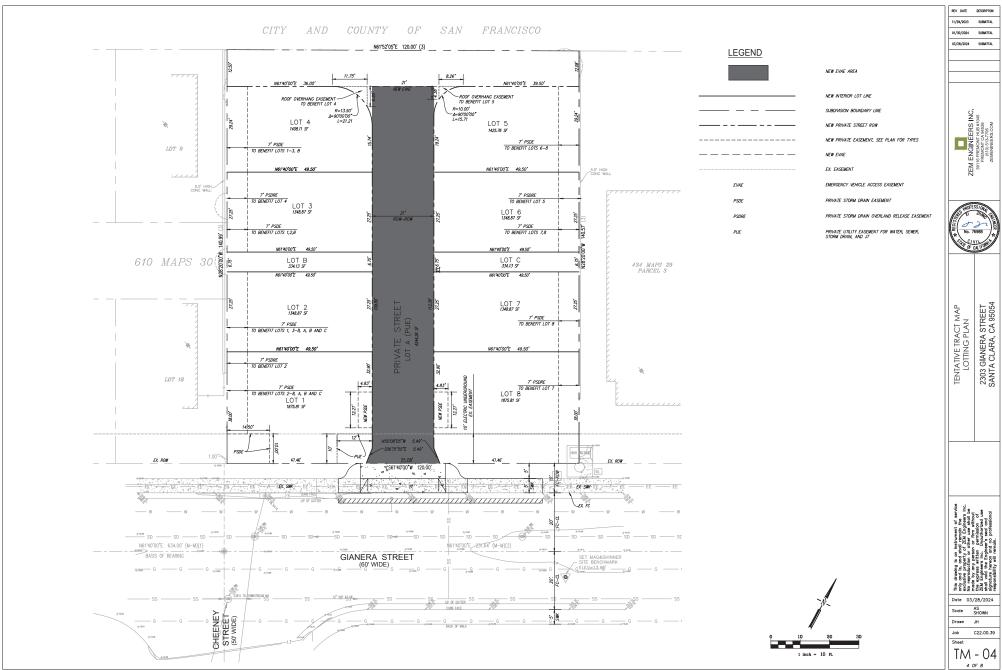
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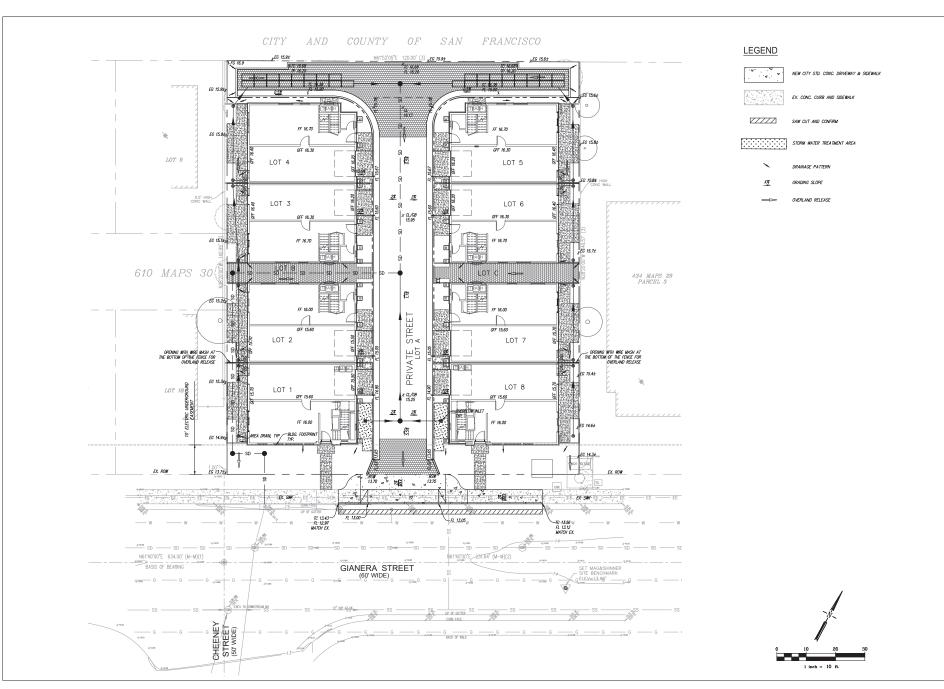
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TENTATIVE TRACT MAP PRELIMINARY GRADING AND DRAINAGE PLAN 2303 GIANERA STREET SANTA CLARA, CA 95054

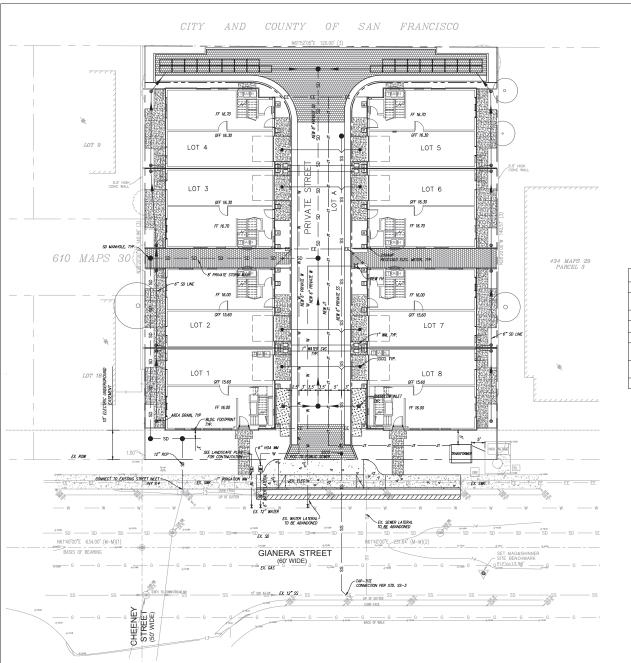
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Date 03/28/2024

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#### **LEGEND**



NEW CITY STD. CONC. DRIVEWAY & SIDEWALK



EX. CONC. CURB AND SIDEWALK



SAW CUT AND CONFIRM



STORM WATER TREATMENT AREA

## NOTE

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

	UTILITY SUM	MARY 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	NFW	6"



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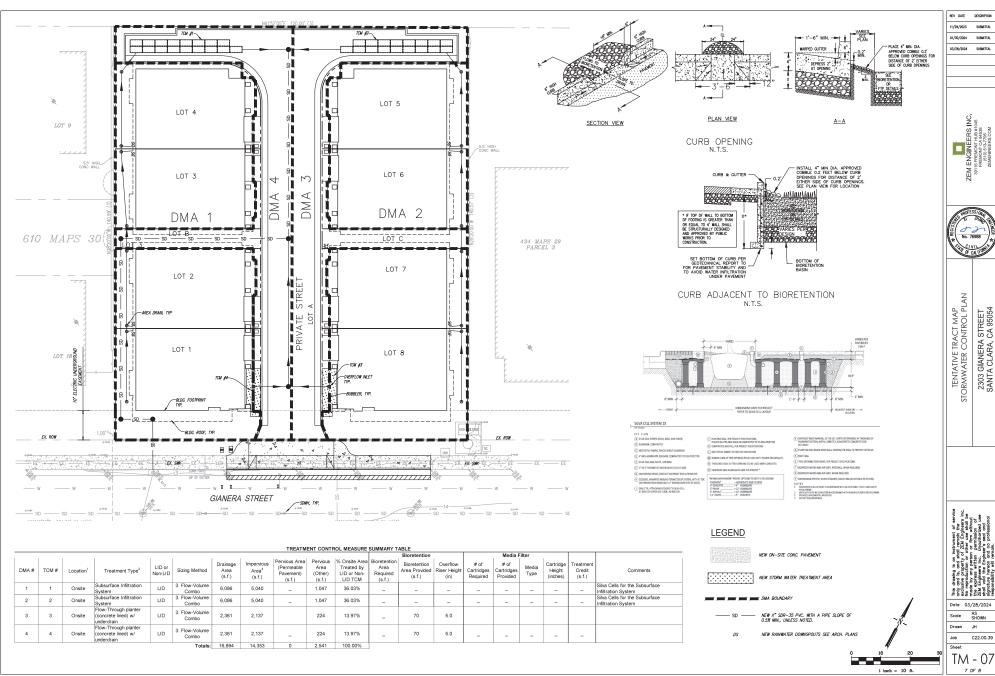


TENTATIVE TRACT MAP PRELIMINARY COMPOSITE UTILITY PLAN 2303 GIANERA STREET SANTA CLARA, CA 95054

Date 03/28/2024 Scale AS SHOWN

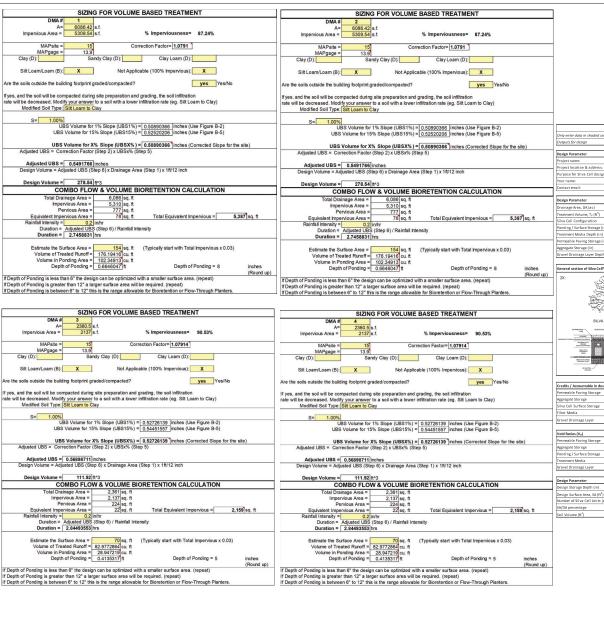
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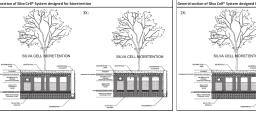


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name:	ZEM Engi	neers	Your name:	ZEM Engir	neers
ct email:			Contact email:		
n Parameter	Value	Notes	Design Parameter	Value	Notes
age Area, DA (ac)	0.14	DA from project plans (1 ac is 43,560 ft <sup>2</sup> )	Drainage Area, DA (ac)	0.14	DA from project plans (1 ac is 43,560 ft <sup>2</sup> )
ment Volume, T <sub>V</sub> (ft <sup>3</sup> )	176	T <sub>V</sub> from stormwater calculations	Treatment Volume, T <sub>V</sub> (ft <sup>5</sup> )	176	Ty from stormwater calculations
Cell Configuration	2X	Select one: 2X, 3X	Silva Cell Configuration	2X	Select one: 2X, 3X
ng / Surface Storage (in)	8	Select value between 0" to 12"	Ponding / Surface Storage (in)	8	Select value between 0" to 12"
ment Media Depth (in)	23	Determined by SC configuration and surface storage	Treatment Media Depth (in)	23	Determined by SC configuration and surface storage
eable Paving Storage (in)	0	Min 0*, Max. 12"	Permeable Paving Storage (in)	0	Min 0", Max. 12"
gate Storage (in)	0	Min 0*, Max. 12*	Aggregate Storage (in)	0	Min 0", Max. 12"
el Drainage Layer Depth (in)	0	Minimum 0* depth	Gravel Drainage Layer Depth (in)	0	Minimum 0" depth
ral section of Silva Cell® System	n designe	for bioretention	General section of Silva Cell® System	n designee	d for bioretention



*	
SILVA CELL BIORETENTION	SILVA CELL BIORETENTION
The state of the s	Annual County Co
Programs Greenial Streeting Streetin	NAMES OF THE PARTY

ccountable in design	Value	Notes	1	Credits / Accountable in design	Value	Notes	
Paving Storage	No	Select 'Yes' if layer is accepted as part of credit calculation	1	Permeable Paving Storage	No	Select 'Yes' if layer is accepted as part of credit calculation	
Storage	No	Select 'Yes' if layer is accepted as part of credit calculation	1	Aggregate Storage	No	Select 'Yes' if layer is accepted as part of credit calculation	
iurface Storage	Yes	Select "Yes" if layer is accepted as part of credit calculation	1	Silva Cell Surface Storage	Yes	Select 'Yes' if layer is accepted as part of credit calculation	
ia	Yes	Select 'Yes' if layer is accepted as part of credit calculation	1	Filter Media	Yes	Select 'Yes' if layer is accepted as part of credit calculation	
inage Layer	No	Select 'Yes' if layer is accepted as part of credit calculation	1	Gravel Drainage Layer	No	Select 'Yes' if layer is accepted as part of credit calculation	
s (Va)	Value	Notes	1	Void Ratios (Va)	Value	Notes	
Paving Storage	0.35	Typical value used - 0.35	1	Permeable Paving Storage	0.35	Typical value used - 0.35	
Storage	0.40	Typical value used - 0.40	1	Aggregate Storage	0.40	Typical value used - 0.40	

ent Media	0.25	Typical value used - 0.25	Treatment Media	0.25	Typical value used - 0.25
Drainage Layer	0.40	Typical value used - 0.40	Gravel Drainage Layer	0.40	Typical value used - 0.40
Parameter	Value		Design Parameter	Value	
Storage Depth (in)	13.1	Surface Storage + Aggregate Storage	Design Storage Depth (in)	13.1	Surface Storage + Aggregate Storage
Surface Area, SA (ft²)	161	T <sub>V</sub> / Design Storage Depth	Design Surface Area, SA (ft <sup>2</sup> )	161	T <sub>V</sub> / Design Storage Depth
of Silva Cell Units (ea)	17	Each SC unit = 9.5 ft2	Number of Silva Cell Units (ea)	17	Each SC unit = 9.5 ft2
ercentage	2.6%	Percentage area of Si Iva Cell (SA) to drainage area (DA)	SA/DA percentage	2.6%	Percentage area of Silva Cell (SA) to drainage area (DA)
ume (ft <sup>2</sup> )	309	Calculated from Surface Area and Filter Media Depth	Soil Volume (ft <sup>3</sup> )	309	Calculated from Surface Area and Filter Media Depth

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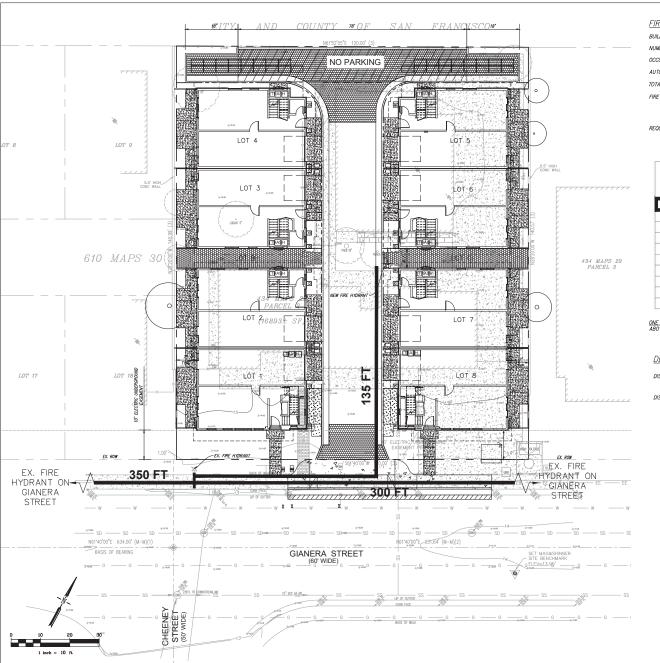
TENTATIVE TRACT MAP STORMWATER CONTROL CALCULATIONS 2303 GIANERA STREET SANTA CLARA, CA 95054

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### 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 BIOS.1(2) TYPE V-A 4,987.5 SOFT FIRE FLOW=1,500 GPM FOR 2 HOURS HOUSE SPRINKLER SYSTEM NFPA 13D THEREFORE PER BIOS.1(1):

REQUIRED HYDRANTS (PER CFC APPENDIX C): FIRE FLOW = 750 GPM

FIRE FLOW = 750 GPM FOR 1 HOUR

#### **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, f, g</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>e</sup>	200	120

<u>ONE (1) HYDRANI</u> 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)

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ZEM ENGINEERS INC.
3916 FREMONT CA 94:38
(510) 527.778
(510) 527.778





2303 GIANERA STREET SANTA CLARA, CA 95054 TENTATIVE TRACT MAP FIRE EXHIBIT

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