



BROADWAY PLAZA, Redwood City, CA

Resubmittal- October 30, 2017
Revised- March 8, 2018
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VICINITY MAP



PROJECT INFORMATION

BROADWAY SITE

Site Address: 1401 Broadway, Redwood City, CA
Current Use: Commercial Retail
Zoning: Mixed-Use Corridor Zoning District
Site Area: 11.2 acres (excl. Denny's and Jack-in-the-Box)

Proposed Mix of Uses: 400 apartment units
120 affordable units
420,000 sf office space
10,000 sf retail
11,000 sf childcare
Proposed Intensity: 47 du/ac and 0.86 FAR
Building Height: up to 85-ft

Parking: subterranean garage
Open Space: mid-block public access park and corner plaza

BAY ROAD SITE

Site Address: 2201 Bay Road, Redwood City, CA
Current Use: Commercial
Zoning: Light Industrial Incubator District
Site Area: 4.1 acres
Proposed: 15,000 sf retail (CVS)
Building Height: up to 30-ft
Parking: Parking Lot

PROJECT DESCRIPTION

The project is a mixed-use development consisting of residential, office, and commercial/retail uses on two sites, Broadway Site and Bay Road Site. Development of the Broadway Site would consist of demolishing the existing commercial/retail buildings and constructing 120 affordable residential units, 400 market-rate residential units, 420,000 SF of office space, 11,000 SF of commercial/retail, and 10,000 SF of childcare facilities.

The affordable residential units would be in a standalone building and the market-rate residential consists of two buildings with the commercial/retail and childcare located on the ground level. The affordable residential would be 5-stories and the market-rate residential would be 6-stories tall. Both have a courtyard amenity for residents on top of the parking podium, 17 ft above sidewalk level. The office consists of three buildings and are separated from the residential by a 1.6-acre public open space. The office height would vary between 4-5 stories. Under Article 53.7.B.3 of the Redwood City Zoning Code, the maximum height in the MUC-GB zoning is 6 stories/85 feet if the project provides a public benefit, such as ground floor retail or public open space.

Residential parking would be in a two-level parking structure, with one level above grade screened by buildings and residential stoop units, and a second level subterranean garage. The garage would be connected on the second subterranean level to the adjacent underground office parking garage to allow shared parking between these complementary uses.

On a 1.9-acre portion of the Bay Road Site, a new surface parked 15,000 SF standalone CVS Pharmacy would be constructed on the northeast corner of Bay Road and Woodside Road. A retail use is allowed under the current Light Industrial Incubator Overlay (LI-IO) zoning with a conditional use permit and would not require a General Plan Amendment (GPA) or a Zoning Amendment.

The project will also include site remediation activities to address soil and groundwater contamination on the Broadway site. A cleanup program is in place and is overseen by the Regional Water Quality Control Board, District 2.

PROJECT TEAM

CLIENT

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PARKING CONSULTANT

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OVERALL SITE CALCULATION:

BROADWAY SITE	11.2 ac	487,872 sf
(West of Woodside Rd)		
Market Rate Residential	3.7 ac	161,172 sf
Affordable Residential	1.1 ac	47,916 sf
Office	4.8 ac	209,088 sf
Public Open Space	1.6 ac	69,696 sf
BAY ROAD SITE	4.1 ac	179,03 sf
(East of Woodside Rd)		
CVS	1.9 ac	82,764 sf
Undeveloped Land	2.2 ac	97,139 sf
(NOTE: Not a part of proposed project)		

BROADWAY SITE GROSS AREA

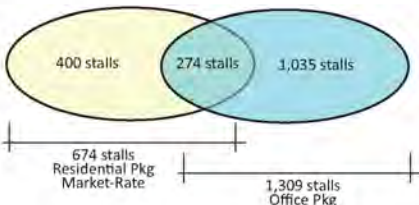
AFFORDABLE RESIDENTIAL (BUILDING 3)			GROSS AREA
BUILDING 3	Level 1/Street Level		15,220
	Level 2		23,860
	Level 3		23,860
	Level 4		23,860
	Level 5		21,741
	TOTAL		108,541

MARKET-RATE RESIDENTIAL (BUILDING 1 & 2)			GROSS AREA
BUILDING 1 Incl. retail and childcare	Level 1/Street Level		42,001
	Level 2		46,223
	Level 3		46,157
	Level 4		46,157
	Level 5		46,157
	Level 6		41,770
	TOTAL		268,465
BUILDING 2	Level 1/Street Level		18,009
	Level 2		38,478
	Level 3		37,956
	Level 4		37,956
	Level 5		37,956
	Level 6		34,827
	TOTAL		205,182
BUILDING 1 & 2			473,647

OFFICE GROSS AREA and F.A.R. (BULIDING A, B & C)			GROSS AREA
OFFICE	TOTAL Building A		110,000
	TOTAL Building B		110,000
	TOTAL Building C		200,000
	Total Office		420,000
	F.A.R.		0.86

LOT COVERAGE			GROSS AREA
BUILDING FOOTPRINT	Affordable Residential		37,720
	Market Rate Residential		139,155
	BLDG A - Office		27,500
	BLDG B - Office		27,500
	BLDG C - Office		40,000
	TOTAL		271,875
LOT COVERAGE			56%

COMBINED PARKING STRATEGY



BAY ROAD LOT COVERAGE			GROSS AREA
CVS RETAIL	Total sf - retail		15,000
	F.A.R. / Lot Coverage		0.18

BROADWAY SITE

11 du/ac gross					
UNITS (AFFORDABLE)	Quantity	sf	Unit Mix	Rentable sf	Pkg Ratio
Studio Units	17	384	14%	6,528	1.0
1-bedroom units	67	562	56%	37,654	1.0
2-bedroom units	24	765	20%	18,360	1.0
3-bedroom units	12	1,071	10%	12,852	2.0
Parking Total Required	120	628	100%	75,394	
Property Management / Amenity				6,700	0
Affordable Pkg Required Total				82,094	136

PARKING PROVIDED for Affordable Residential	EV Stalls	ADA Pkg	Tandem	Standard	Pkg Stalls Provided
Parking on-grade (L1)	2	3	6	41	52
Parking in subterranean garage (B1)*	3	2	30	49	84
Parking Total Provided	5	5	36	90	136
Bicycle Parking (class I) (1 bike / 3 units)					40
Motorcycle Parking (5% of provided vehicle parking)					8

36 du/ac gross					
UNITS (MARKET RATE)	Quantity	sf	Unit Mix	Rentable sf	Pkg Ratio
Studio Units	20	625	5%	12,500	1.5
1-bedroom units	255	726	64%	185,130	1.5
2-bedroom units	125	1,152	31%	144,000	2.0
Parking Total Required	400	854	100%	341,630	663
Property Management / Amenity				12,900	0
Market Rate Pkg Required Total				354,530	663

PARKING PROVIDED for Market Rate Residential	EV Stalls	ADA Pkg	Tandem	Standard	Pkg Stalls Provided
Parking on-grade (L1)	9	4	46	66	125
Parking in subterranean garage (B1)*	11	17	42	205	275
Dedicated Market Rate Residential Parking	20	21	88	271	400
Shared Subterranean Parking	0	0	0	274	274
Parking Total Provided	20	21	88	271	674
Bicycle Parking (class I) (5% of provided vehicle parking)					134
Motorcycle Parking (5% of provided vehicle parking)					38

RETAIL AND CHILDCARE					
USE	# floors	sf per floor	Total sf	Pkg Ratio	Pkg Stalls Required
Retail	1	11,000	11,000	5.0 / 1,000	55
Childcare	1	10,000	10,000	3.3 / 1,000	33
Parking Total Required					88

PARKING PROVIDED for Retail and Childcare	EV Stalls	ADA Pkg	Tandem	Standard	Pkg Stalls Provided
Parking on-grade (L1)	6	5	0	77	88
Parking Total Provided	6	5	0	77	88
Bicycle Parking (class I) (5% of provided vehicle parking)					4
Motorcycle Parking (5% of provided vehicle parking)					4

0.86 F.A.R.					
OFFICE	# floors	sf per floor	Total sf	Pkg Ratio	Pkg Stalls Required
Building A	4	27,500	110,000		
Building B	4	27,500	110,000		
Building C	5	40,000	200,000		
Parking Total Required/Proposed			420,000	3.1 / 1,000	1,309

PARKING PROVIDED for Office	EV Stalls	ADA Pkg	Standard	Pkg Stalls Provided
Parking in subterranean garage (B1)	34	20	451	505
Parking in subterranean garage (B2)	34	0	485	519
Subterranean Office Parking Total Provided	68	20	936	1,024
Shared Subterranean Parking	0	0	274	274
Surface Parking at Office Auto Court	0	1	10	11
Parking Total Provided	68	21	1,220	1,309
Bicycle Parking (class I) (5% of provided vehicle parking)				66
Motorcycle Parking (5% of provided vehicle parking)				66

PARKING ALLOCATION		Pkg Stalls Provided
Dedicated Affordable Residential Parking (Structure)		136
Dedicated Market Rate Residential Parking (Structure)		400
Dedicated Retail/Childcare Parking (Structure)		88
Dedicated Office Parking (Structure)		1,024
Shared Parking (Structure)		274
Surface Parking at Office Auto Court		11
Surface Easement Parking Behind Denny's		20
Total Parking Provided		1,953

TOTAL COMBINED PARKING					
TOTAL PARKING PROVIDED	EV Stalls	ADA Pkg	Tandem	Standard	Pkg Stalls Provided
Parking on-grade (L1)	17	12	52	184	265
Parking in subterranean garage (B1)	48	39	72	979	1,138
Parking in subterranean garage (B2)	34	0	0	485	519
Total Structure Parking	99	51	124	1,648	1,922
Surface Office Parking	0	1	0	10	11
Surface Easement Parking Behind Denny's	0	0	0	20	20
Total Project Parking Provided	99	52	124	1,678	1,953
Parallel Parking Stall on Bay Road (not part of Project)					15

BAY ROAD SITE (CVS)

BAY ROAD SITE (CVS)					
CVS	Pkg Ratio	EV	ADA	Standard	Total
Total sf (CVS)					15,000
Parking Provided	5.7 / 1,000	6	4	75	85
Bicycle Parking (class II) (5% of provided vehicle parking)					4
Motorcycle Parking (5% of provided vehicle parking)					4

*NYS stalls per GH 118 Table 118-206.2



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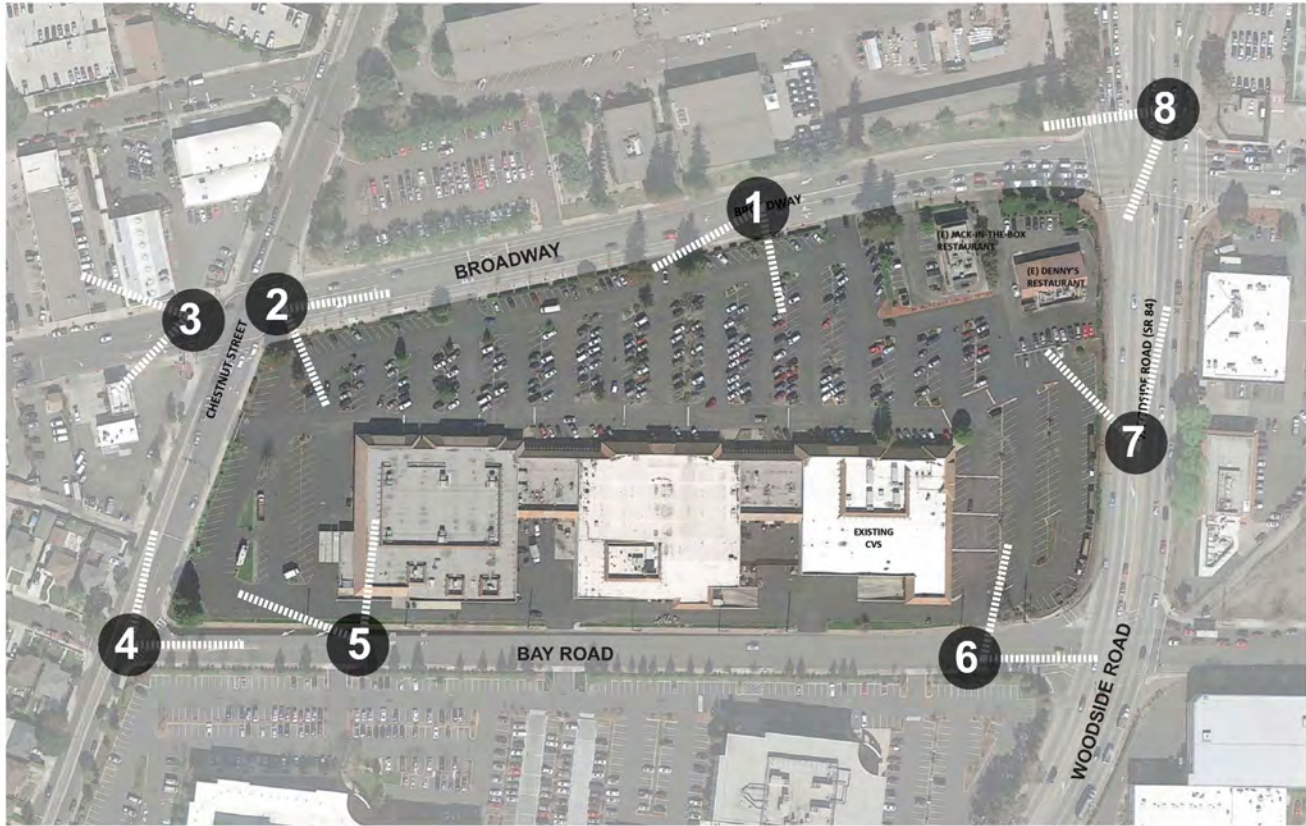
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PROJECT SUMMARY

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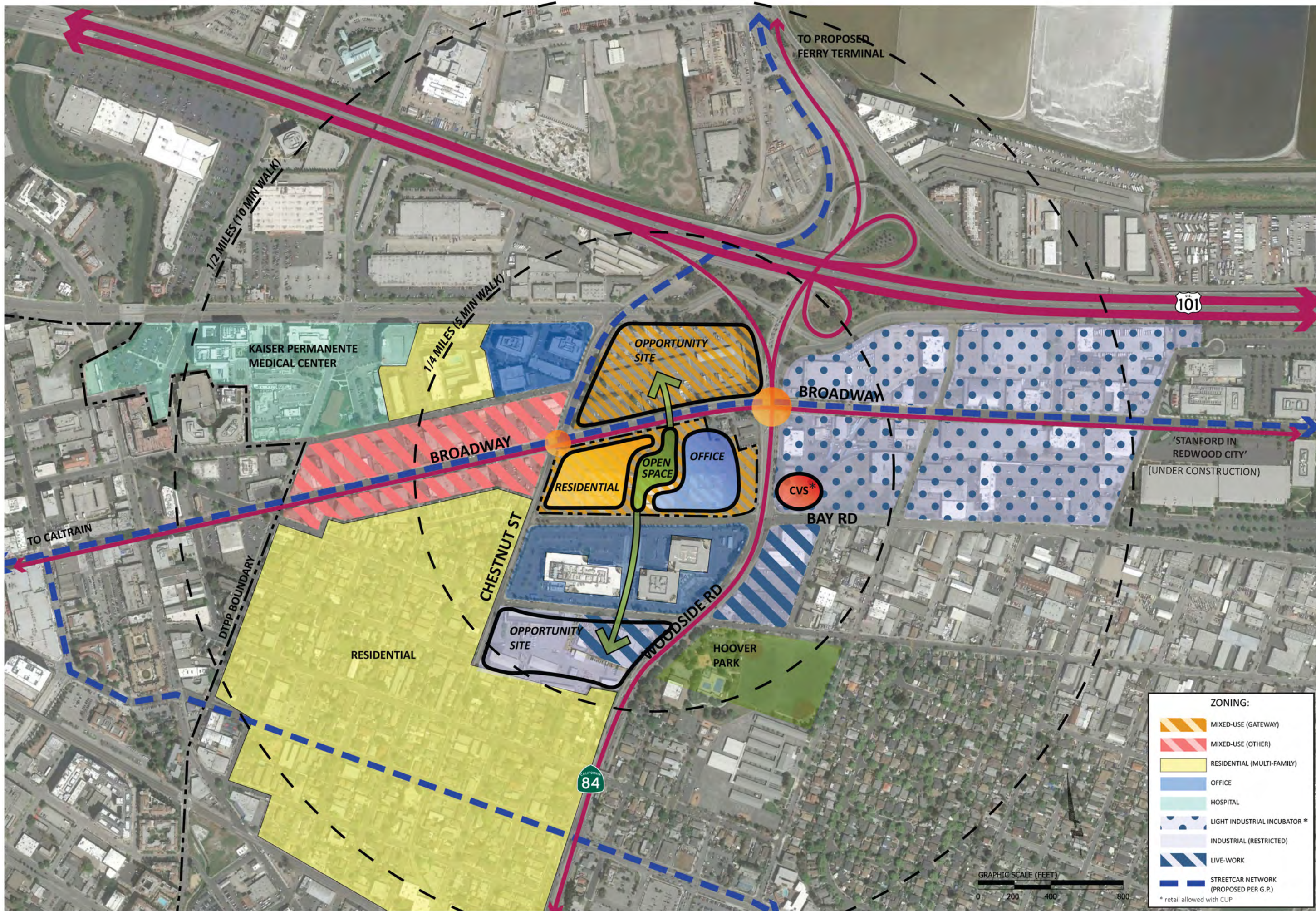
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EXISTING SITE
PHOTOS

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CONTEXT/
NEIGHBORHOOD
PLAN

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LEGEND

- VEHICULAR ACCESS
- PEDESTRIAN ROUTE
- NODES
- STREETCAR NETWORK (PROPOSED PER G.P.)

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**SITE CIRCULATION
DIAGRAM**

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ILLUSTRATIVE
SITE PLAN

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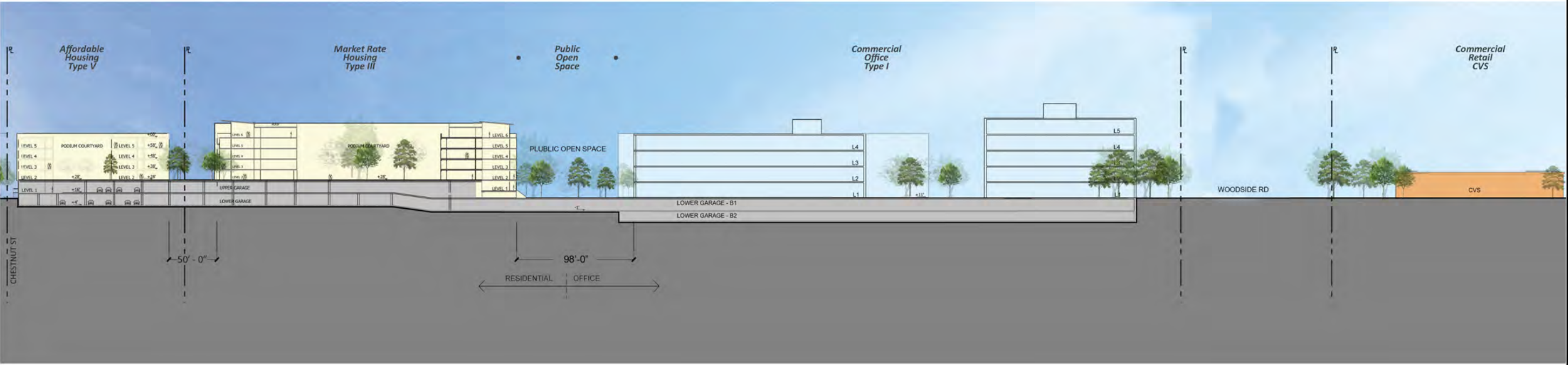
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SITE SECTION

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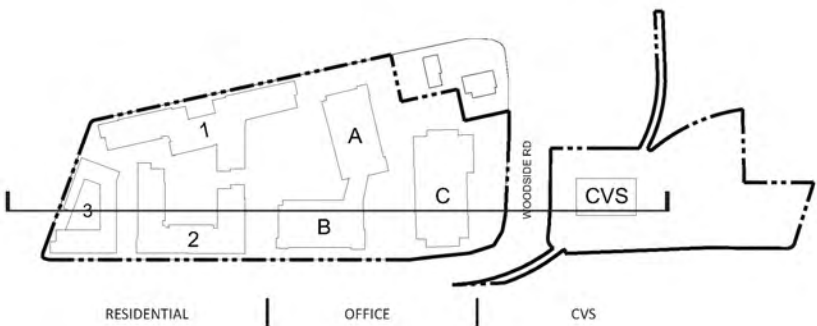
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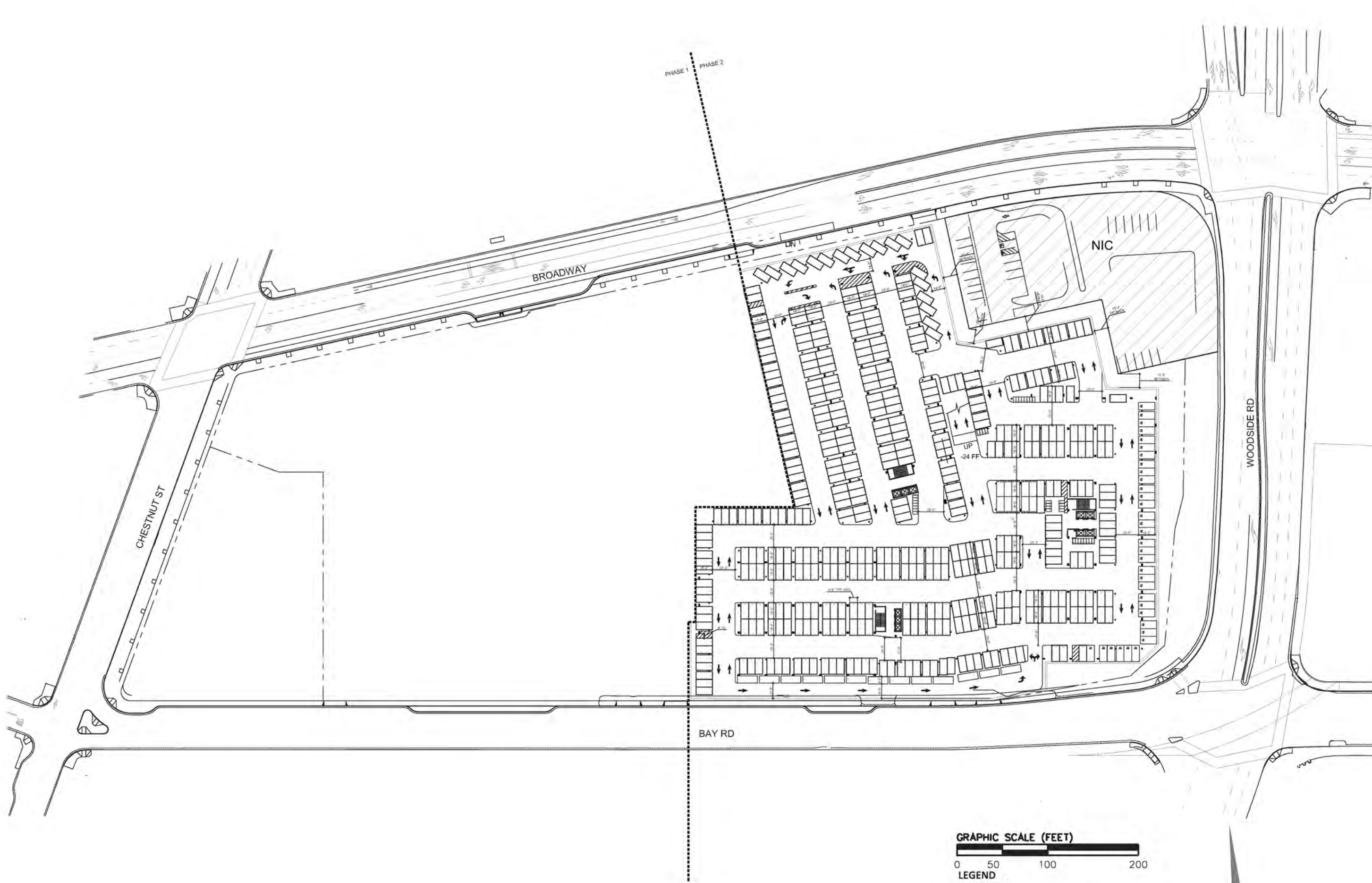
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PHASING

- PHASE 1 - CVS
- PHASE 2 - PARKING GARAGE
- PHASE 3 - RESIDENTIAL
- PHASE 4 - OFFICE






NOTE: FINISH FLOOR LEVELS ARE APPROXIMATE. PLEASE REFER TO PRELIMINARY GRADING PLAN.

GRAPHIC SCALE (FEET)

0 50 100 200


LEGEND

F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
STR. = STORAGE ROOM
MNT. = MAINTENANCE
S.O. = SERVICE OFFICE
TC = TRASH COMPACTORS



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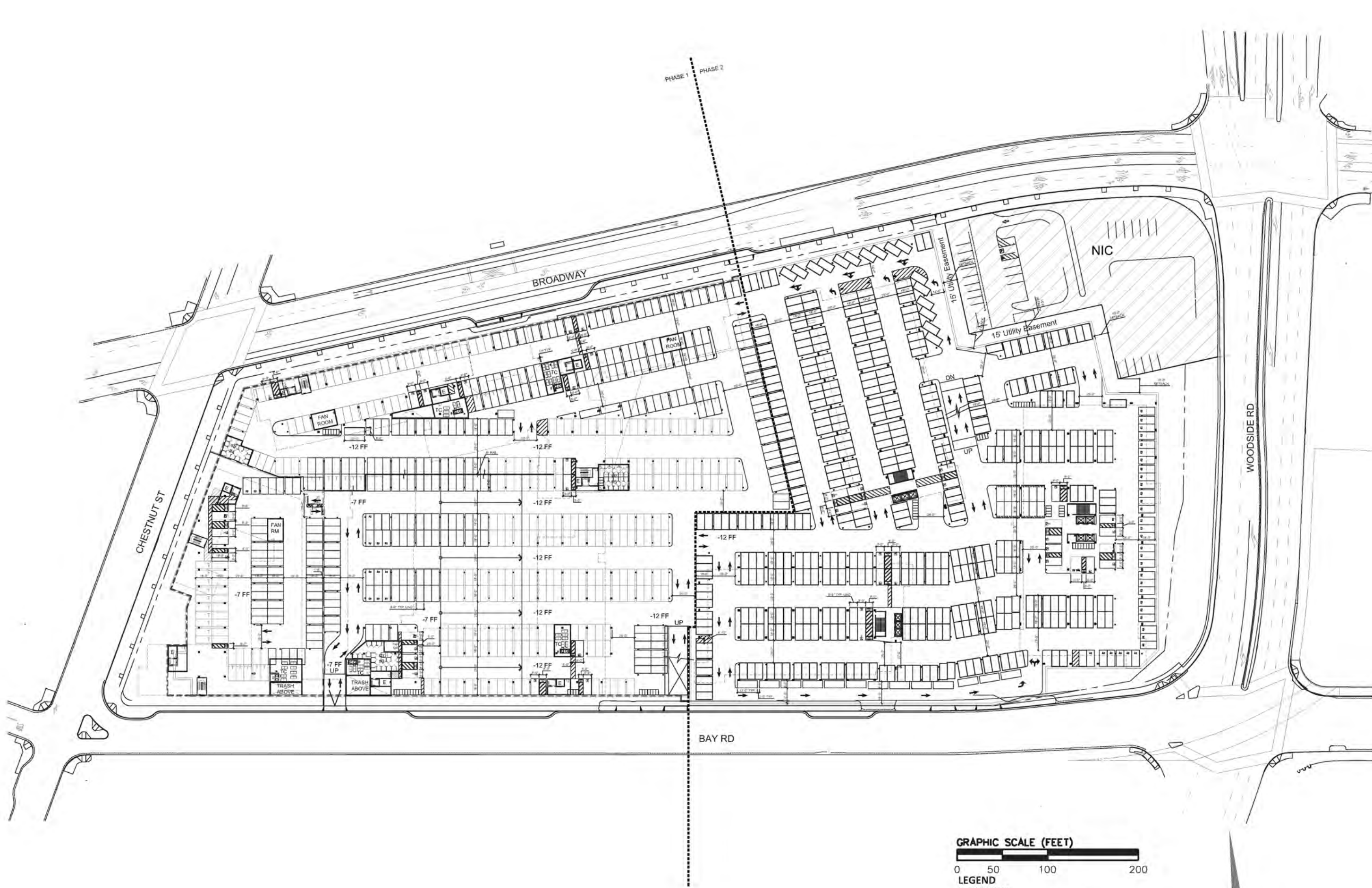
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Sheet Title:
**LEVEL B2 PLAN /
SUBTERRANEAN
GARAGE**

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LEGEND

F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
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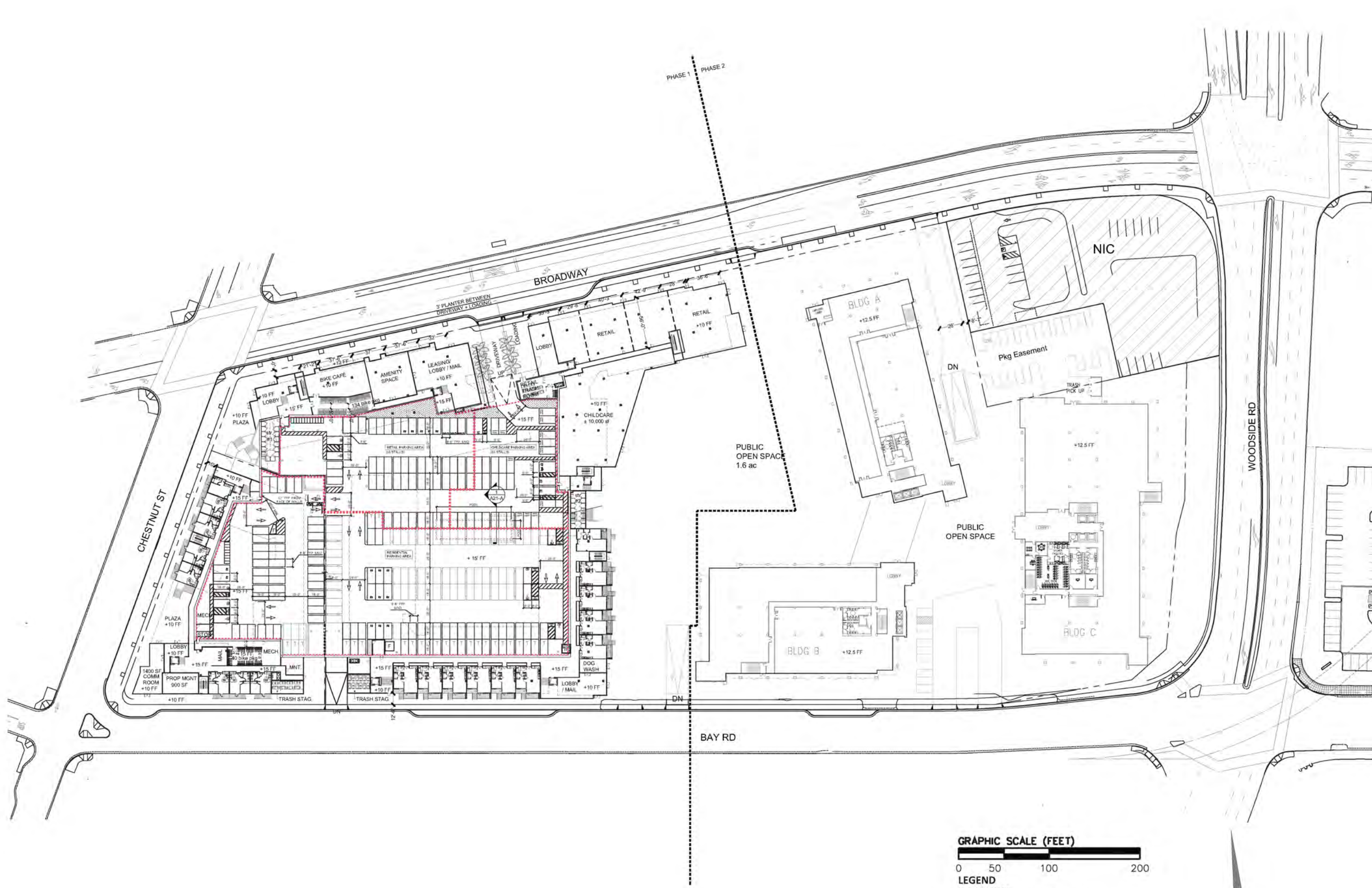
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LEVEL B1 PLAN / SUBTERRANEAN GARAGE

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GRAPHIC SCALE (FEET)

0 50 100 200


LEGEND

F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
STR. = STORAGE ROOM
MNT. = MAINTENANCE
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Sheet Title:
**LEVEL 1
PLAN /
STREET LEVEL**

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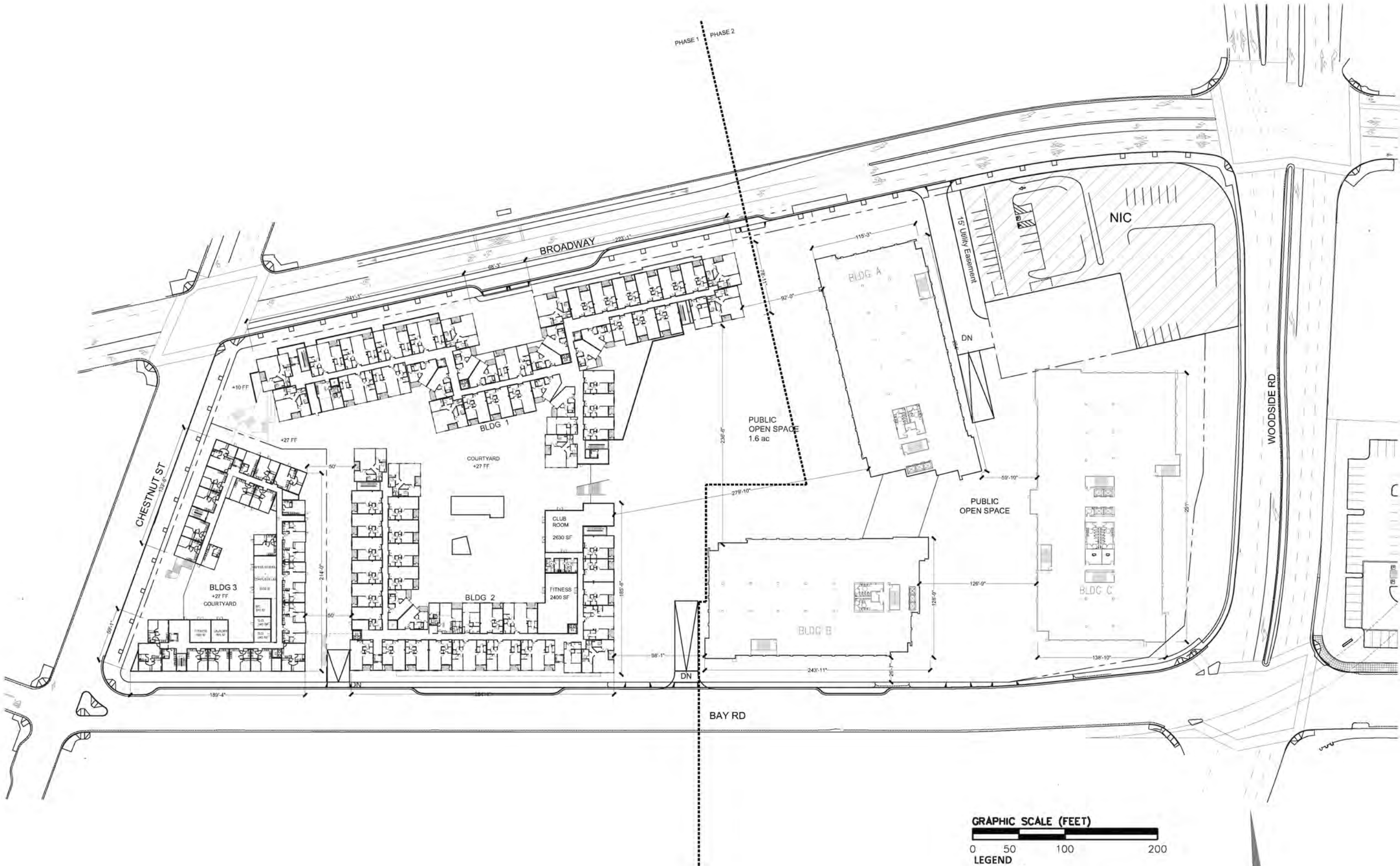
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Sheet Title:
LEVEL 2
PLAN

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Scale: 1"=50'
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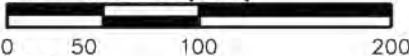
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A1.2



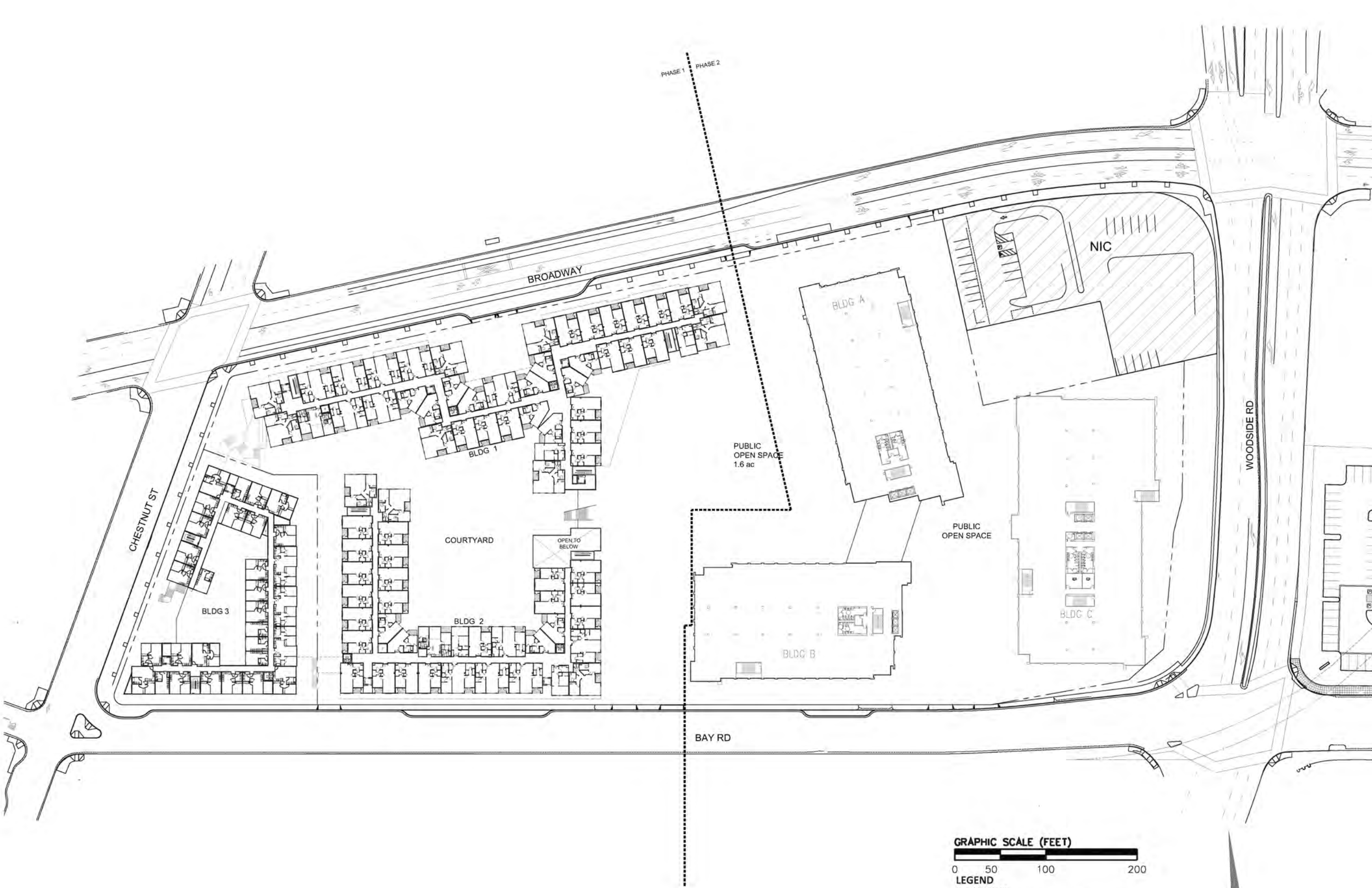
NOTE: FINISH FLOOR LEVELS ARE APPROXIMATE. PLEASE REFER
TO PRELIMINARY GRADING PLAN.

GRAPHIC SCALE (FEET)



LEGEND

F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
STR. = STORAGE ROOM
MNT. = MAINTENANCE
S.O. = SERVICE OFFICE
TC = TRASH COMPACTORS



NOTE: FINISH FLOOR LEVELS ARE APPROXIMATE. PLEASE REFER TO PRELIMINARY GRADING PLAN.


GRAPHIC SCALE (FEET)
0 50 100 200

LEGEND
F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
STR. = STORAGE ROOM
MNT. = MAINTENANCE
S.O. = SERVICE OFFICE
TC = TRASH COMPACTORS



**STUDIO
T SQUARE**

Architecture
Planning
Urban Design



Form 4
Architecture

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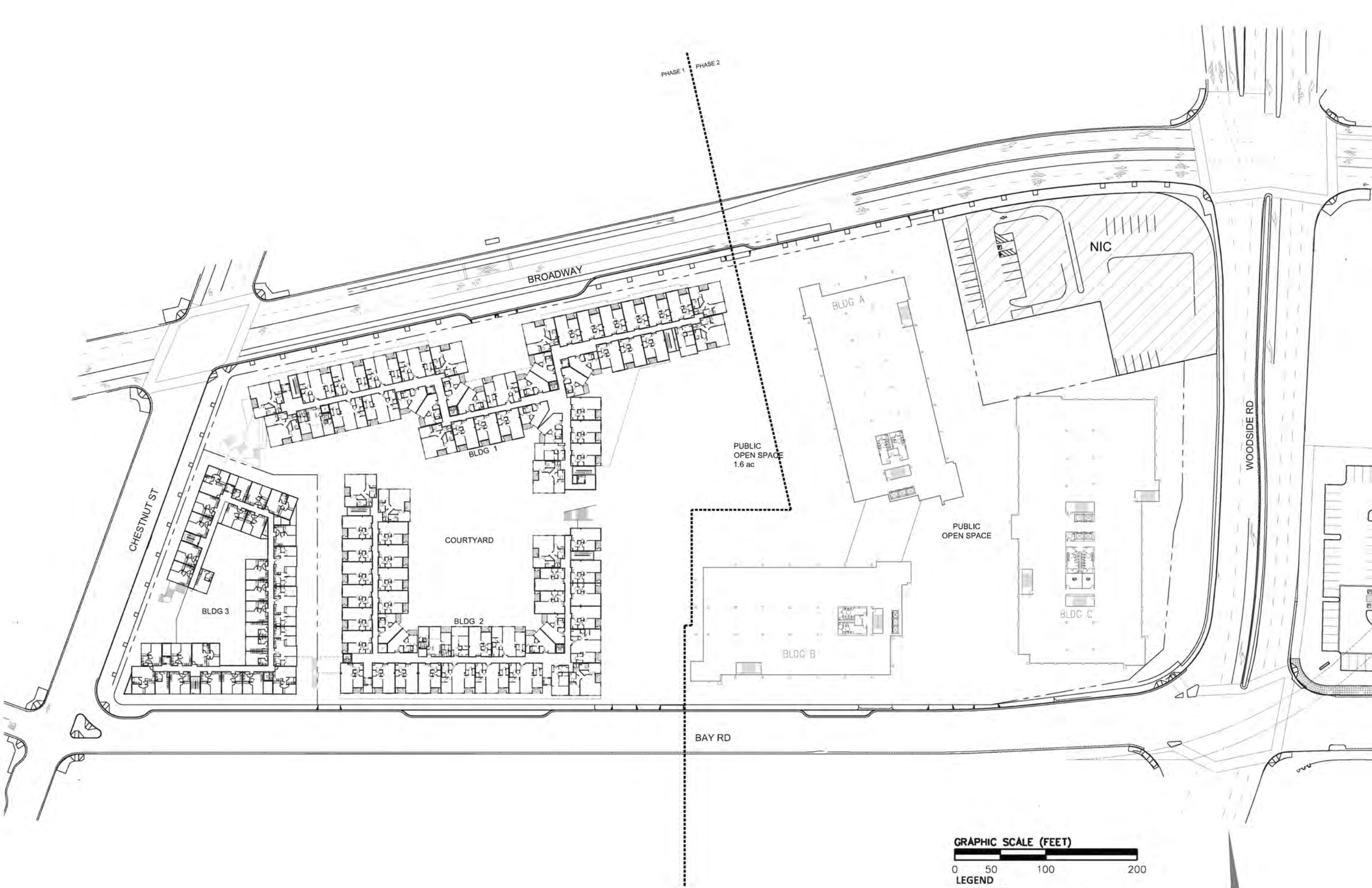
Broadway Plaza
Redwood City, CA

**The Sobrato Organization &
MidPen Housing Corporation**

Sheet Title:
**LEVEL 3
PLAN**

Job No. 14023
Date: 03/15/2019
Scale: 1"=50'
Drawn By:


Sheet No:
A1.3



NOTE: FINISH FLOOR LEVELS ARE APPROXIMATE. PLEASE REFER TO PRELIMINARY GRADING PLAN.


GRAPHIC SCALE (FEET)
0 50 100 200

LEGEND
F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
STR. = STORAGE ROOM
MNT. = MAINTENANCE
S.O. = SERVICE OFFICE
TC = TRASH COMPACTORS



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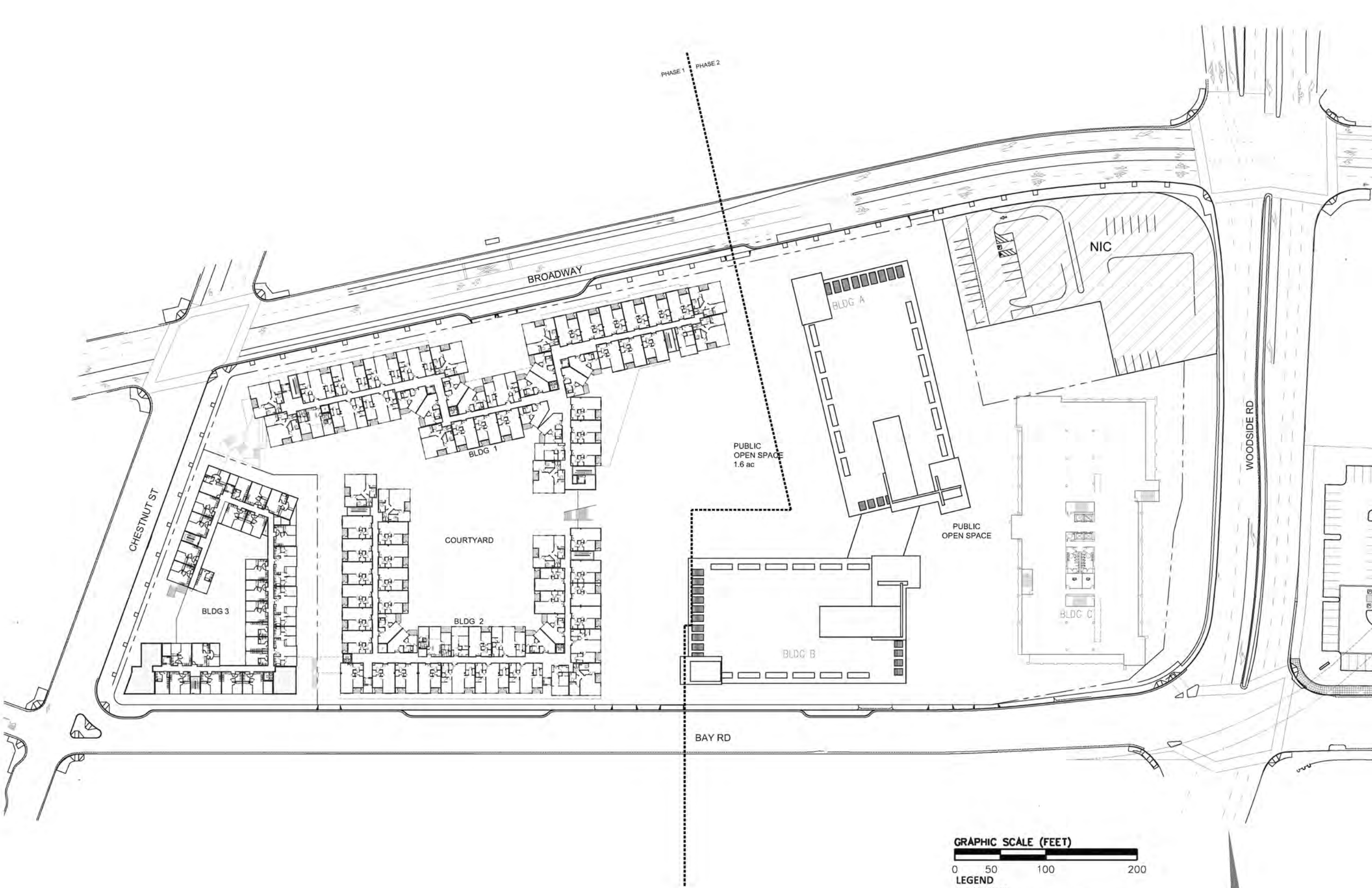
Broadway Plaza
Redwood City, CA

**The Sobrato Organization &
MidPen Housing Corporation**

Sheet Title:
**LEVEL 4
PLAN**

Job No. 14023
Date: 03/15/2019
Scale: 1"=50'
Drawn By:

Sheet No:
A1.4



NOTE: FINISH FLOOR LEVELS ARE APPROXIMATE. PLEASE REFER TO PRELIMINARY GRADING PLAN.

GRAPHIC SCALE (FEET)
0 50 100 200

LEGEND
F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
STR. = STORAGE ROOM
MNT. = MAINTENANCE
S.O. = SERVICE OFFICE
TC = TRASH COMPACTORS



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Architecture

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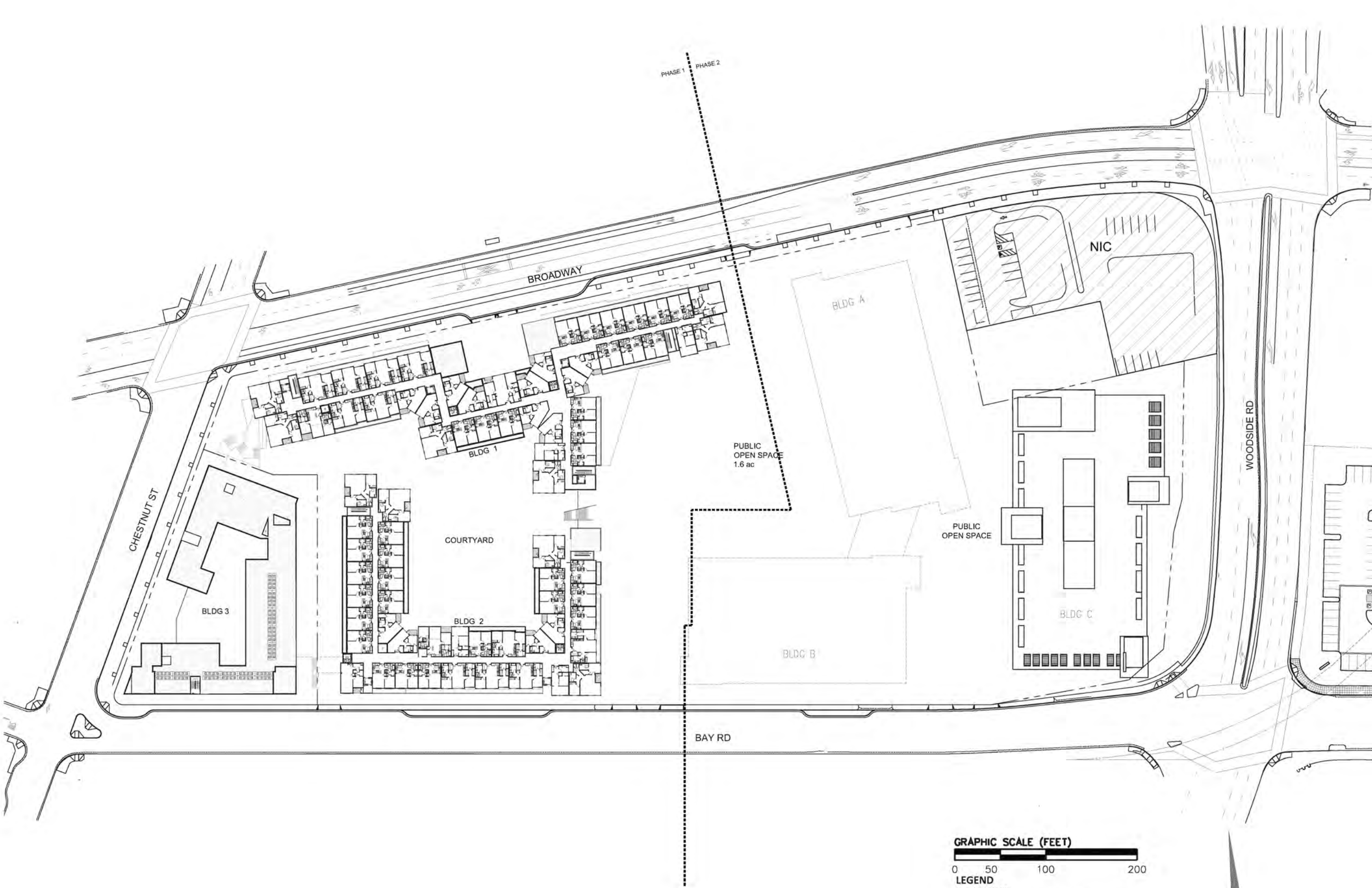
Broadway Plaza
Redwood City, CA

**The Sobrato Organization &
MidPen Housing Corporation**

Sheet Title:
**LEVEL 5
PLAN**

Job No. 14023
Date: 03/15/2019
Scale: 1"=50'
Drawn By:

Sheet No:
A1.5



NOTE: FINISH FLOOR LEVELS ARE APPROXIMATE. PLEASE REFER TO PRELIMINARY GRADING PLAN.

GRAPHIC SCALE (FEET)

0 50 100 200

LEGEND

F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
STR. = STORAGE ROOM
MNT. = MAINTENANCE
S.O. = SERVICE OFFICE
TC = TRASH COMPACTORS

STUDIO T SQUARE

Architecture
Planning
Urban Design

Form 4

Architecture

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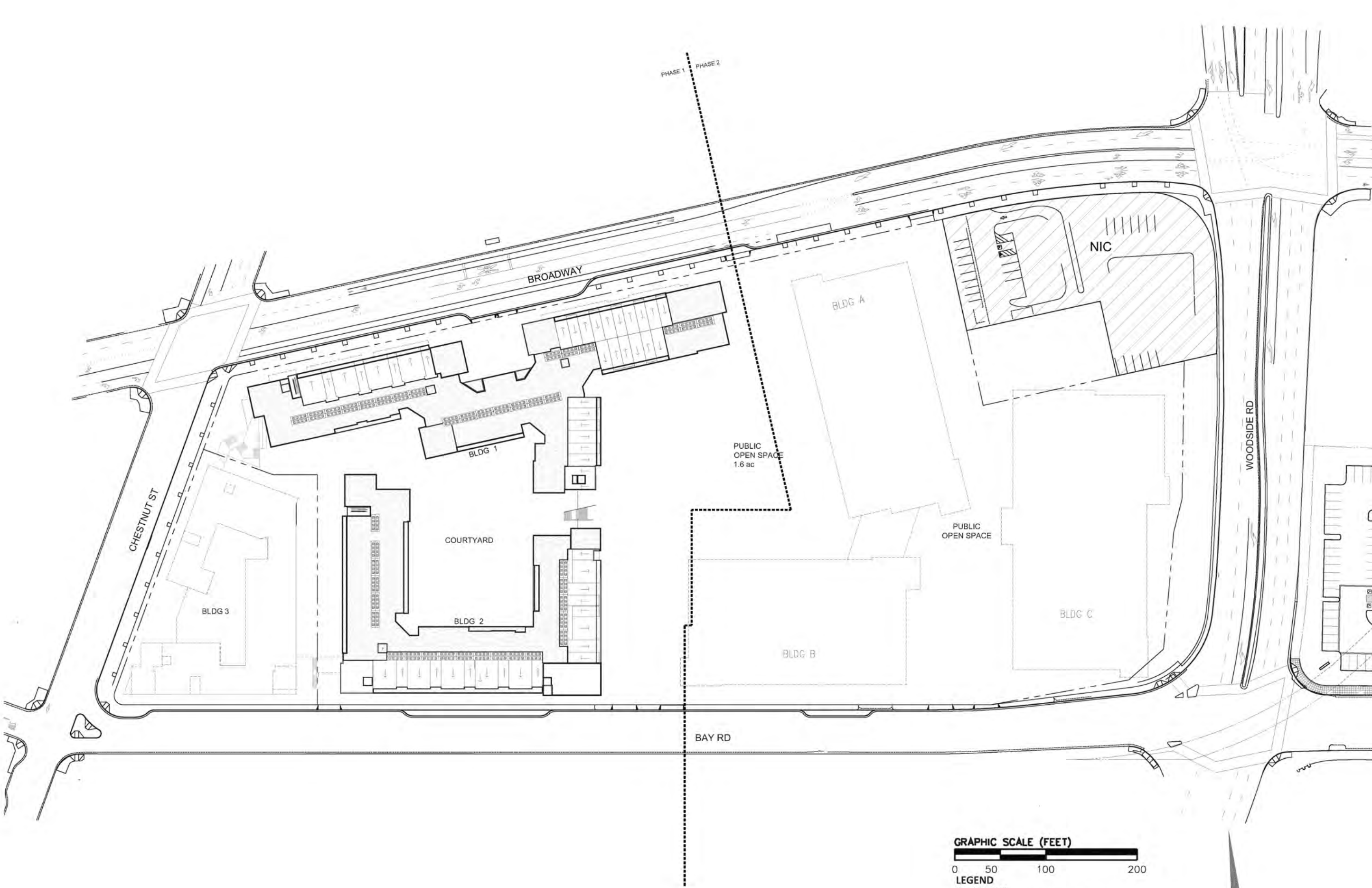
Broadway Plaza
Redwood City, CA

The Sobrato Organization & MidPen Housing Corporation

Sheet Title:
**LEVEL 6
PLAN /
ROOF PLAN**

Job No. 14023
Date: 03/15/2019
Scale: 1"=50'
Drawn By:

Sheet No:
A1.6



NOTE: FINISH FLOOR LEVELS ARE APPROXIMATE. PLEASE REFER TO PRELIMINARY GRADING PLAN.

GRAPHIC SCALE (FEET)
0 50 100 200

LEGEND
F = FAN SHAFT
E = ELEVATOR EQUIPMENT ROOM
STR. = STORAGE ROOM
MNT. = MAINTENANCE
S.O. = SERVICE OFFICE
TC = TRASH COMPACTORS



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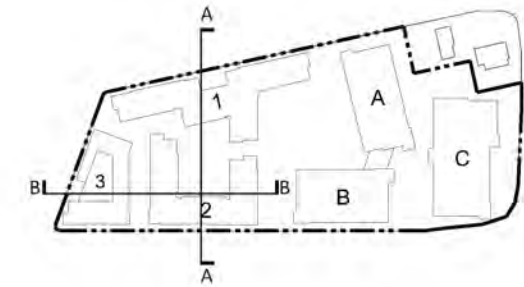
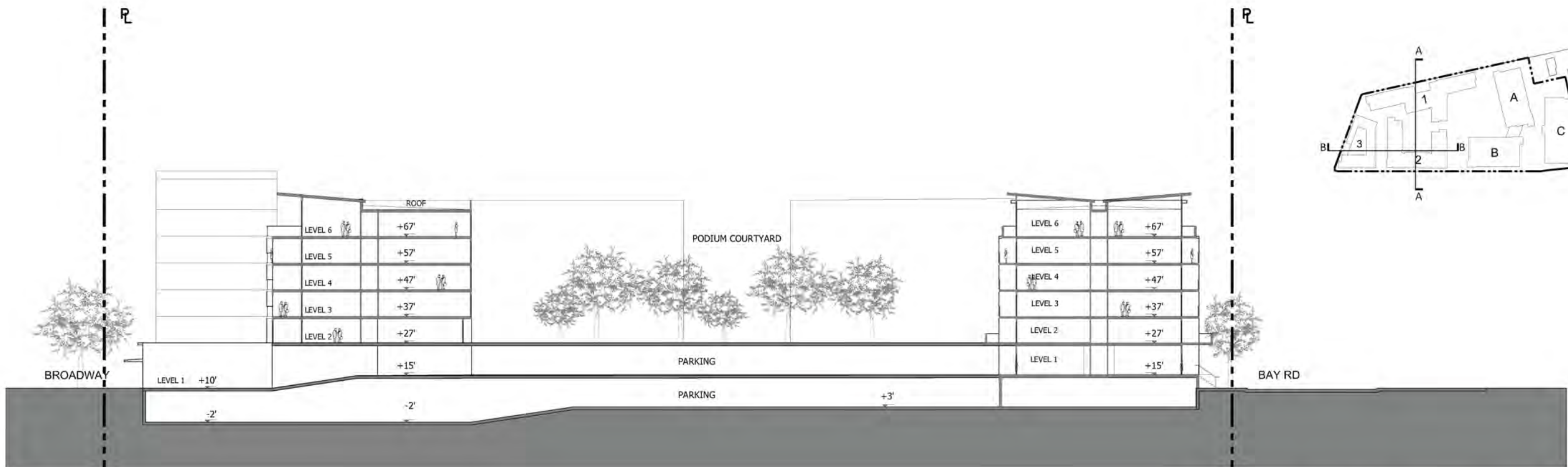
Broadway Plaza
Redwood City, CA

The Sobrato Organization & MidPen Housing Corporation

Sheet Title:
ROOF PLAN

Job No. 14023
Date: 03/15/2019
Scale: 1"=50'
Drawn By:

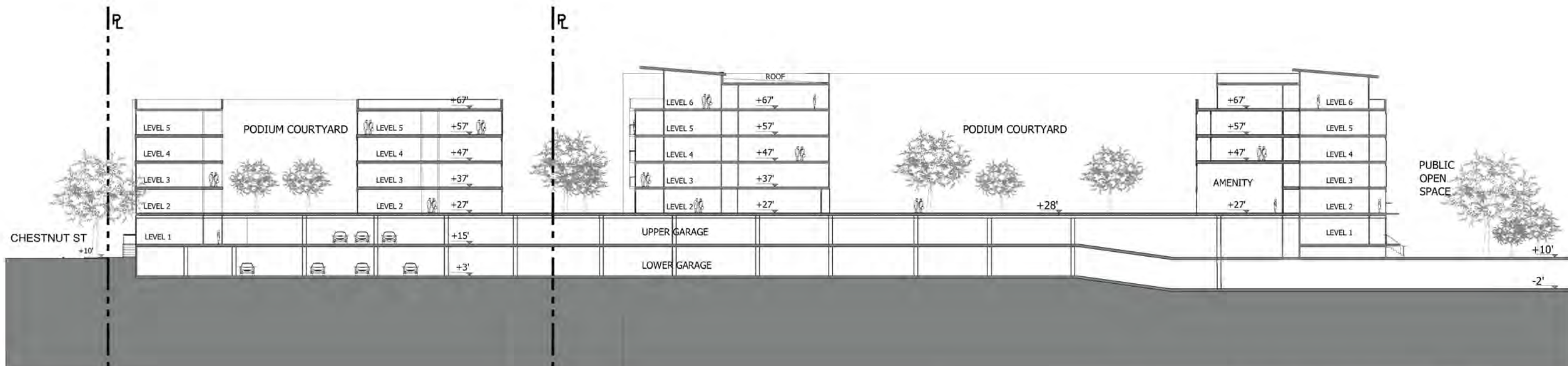
Sheet No:
A1.7



RESIDENTIAL SECTION

SCALE: 1" = 20' - 0"

A



RESIDENTIAL BUILDING SECTION

SCALE: 1" = 20' - 0"

B

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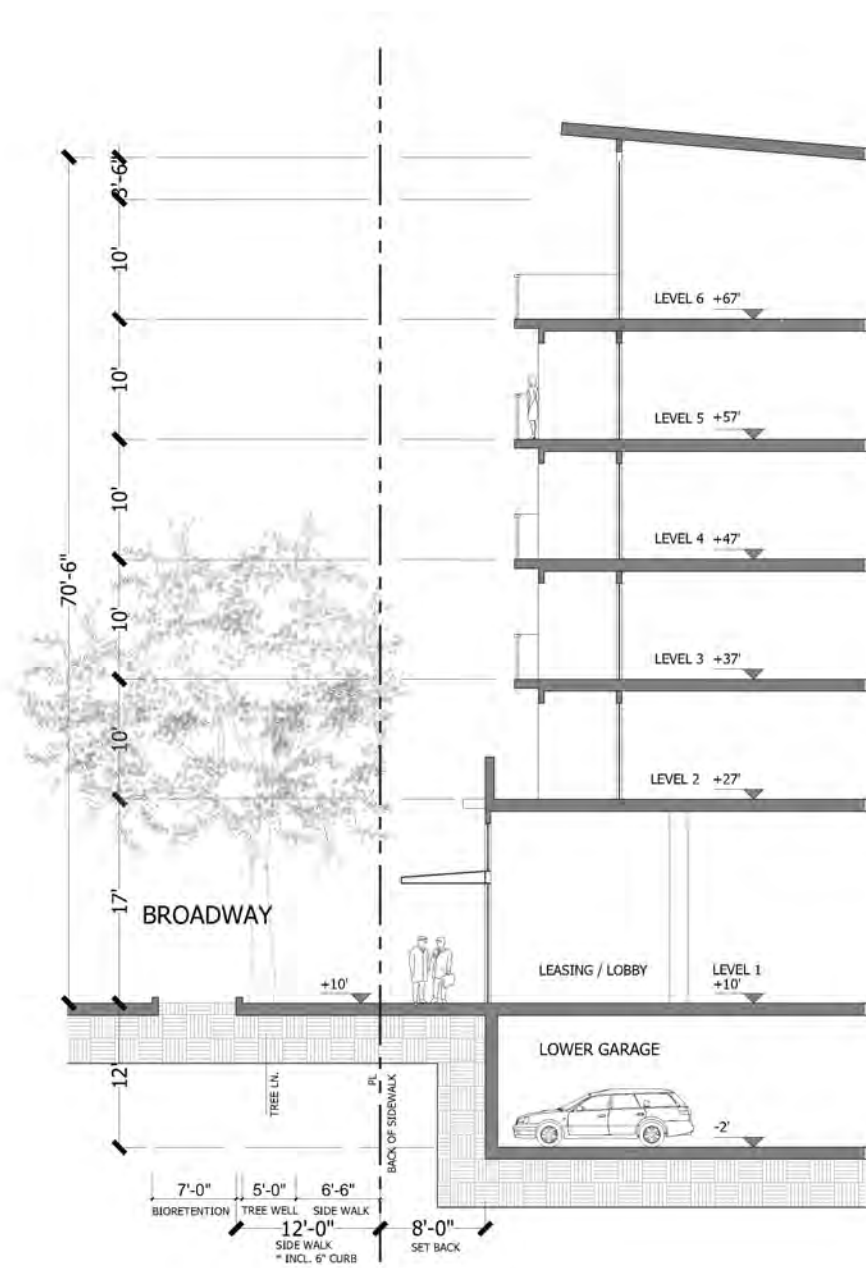
Broadway Plaza
Redwood City, CA
The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
BUILDING SECTIONS
(RESIDENTIAL)

Job No. 14023
Date: 03/15/2019
Scale: 1" = 20'
Drawn By:

Sheet No:

A2.1

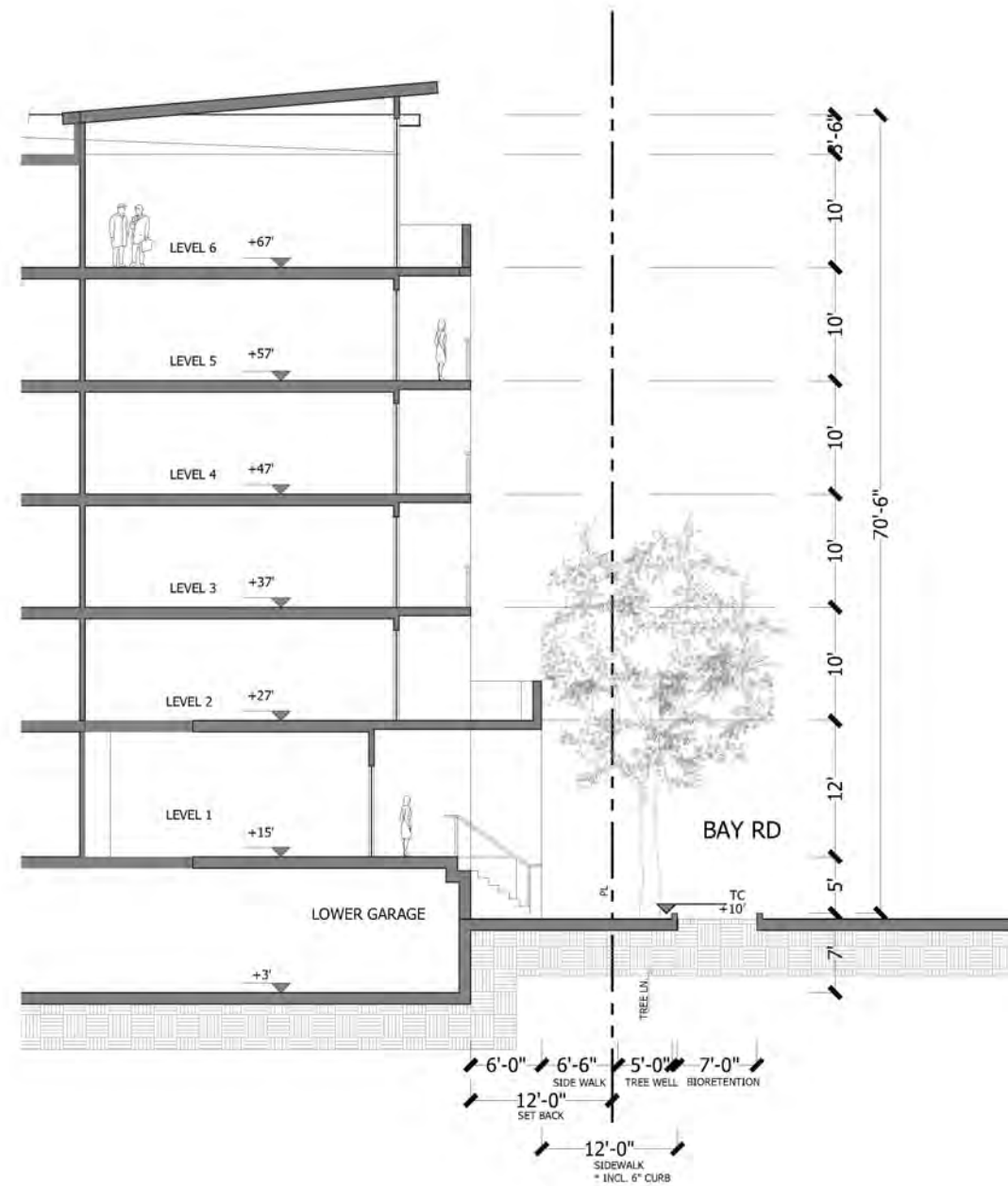


MARKET RATE

Broadway - Wall Section

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

A



MARKET RATE

Bay Rd - Wall Section

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

A

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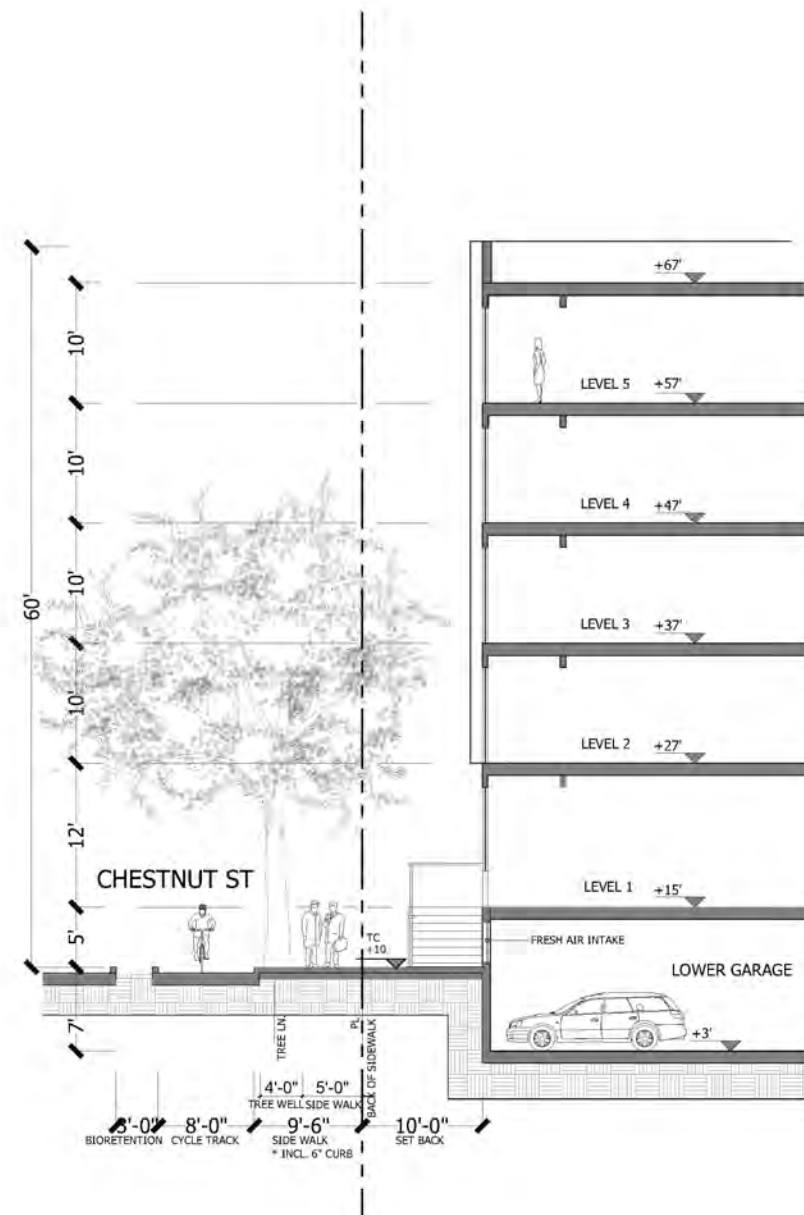
Broadway Plaza
Redwood City, CA
The Sobrato Organization &
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Sheet Title:
WALL SECTIONS
(RESIDENTIAL)

Job No. 14023
Date: 03/15/2019
Scale: 1/8" = 1' - 0"
Drawn By:

Sheet No:

A2.2

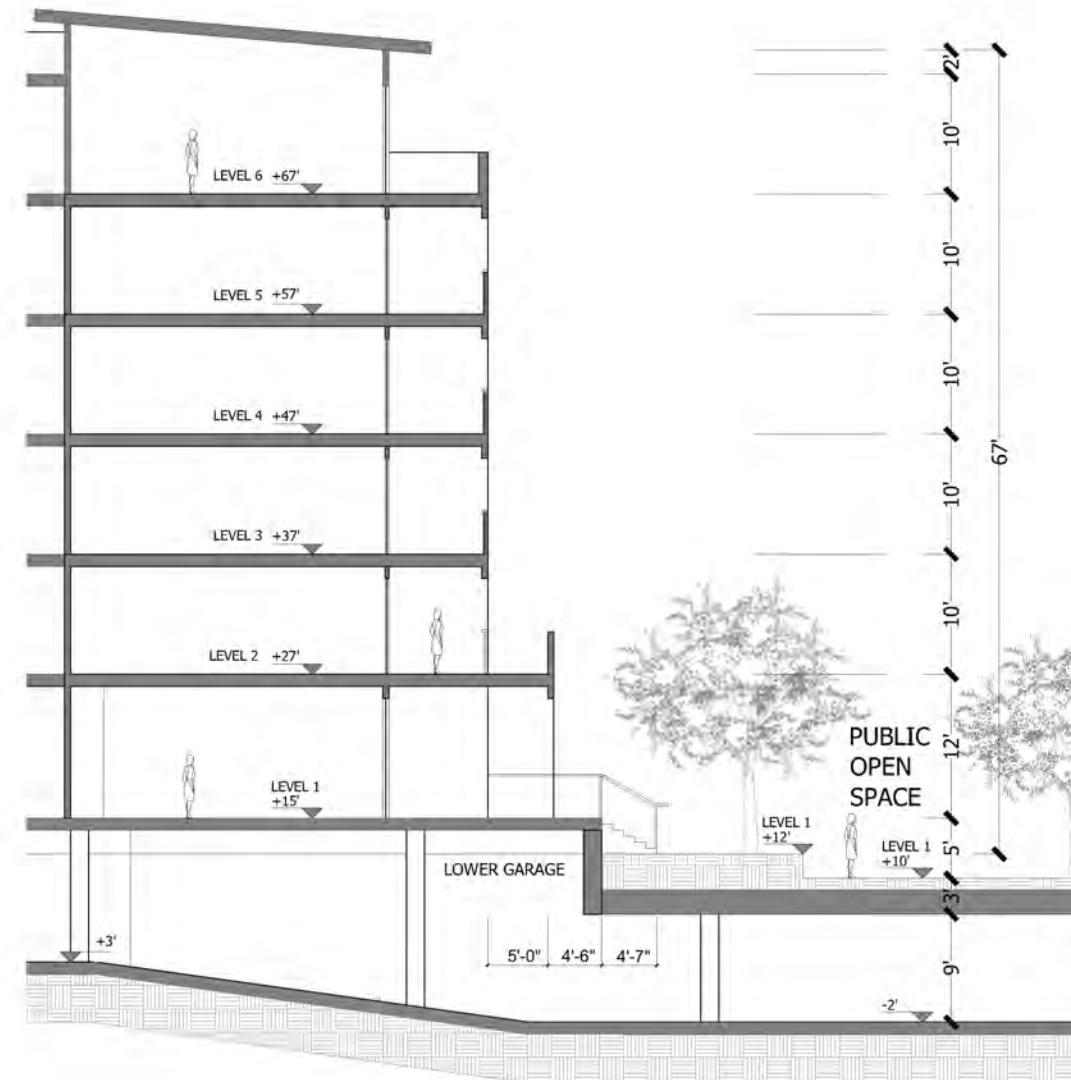


AFFORDABLE

Chestnut St - Wall Section

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

B



MARKET RATE

Public Open Space - Wall Section

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

B

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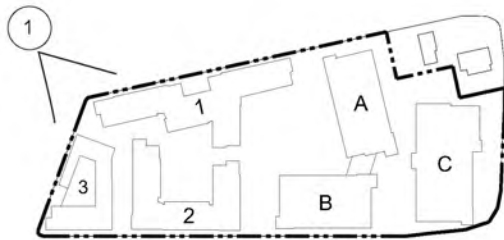
Broadway Plaza
Redwood City, CA
The Sobrato Organization &
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Sheet Title:
WALL SECTIONS
(RESIDENTIAL)

Job No. 14023
Date: 03/15/2019
Scale: 1/8" = 1' - 0"
Drawn By:

Sheet No:

A2.3



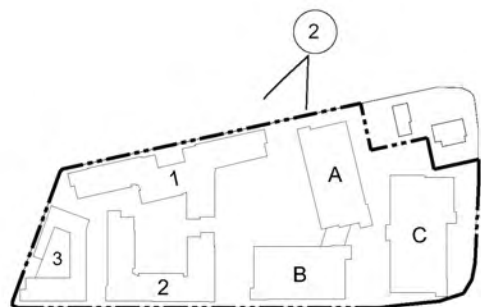
BLDG 1

PUBLIC PLAZA AT BROADWAY AND CHESTNUT ST

BLDG 3 - AFFORDABLE

VIEW OF PLAZA AT CHESTNUT ST AND BROADWAY

1



BLDG A

PUBLIC OPEN SPACE

BLDG 1

VIEW OF BROADWAY

2



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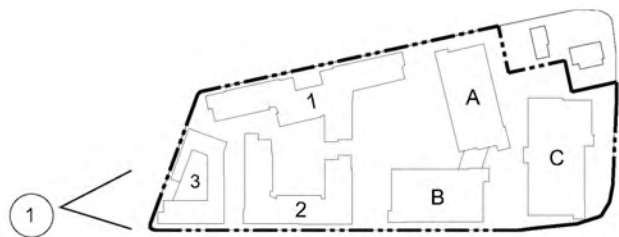
The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
BUILDING
PERSPECTIVES
(RESIDENTIAL)

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

A3.1



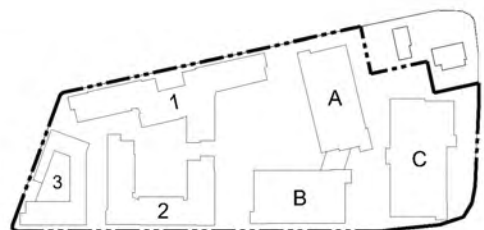
BLDG 1

BLDG 3 - AFFORDABLE

BAY RD

VIEW OF CHESTNUT ST AND BAY RD

1



BLDG 2

PUBLIC
OPEN
SPACE

BLDG B

VIEW OF BAY RD

2



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: Planning
: Urban Design



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Sheet Title:
BUILDING
PERSPECTIVES
(RESIDENTIAL)

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

A3.2



PUBLIC OPEN SPACE | BLDG 1 (EAST SIDE) | ENTRY COURT

NORTH ELEVATION

SCALE: 1/16" = 1' - 0"

A



RESIDENTIAL BLDG 1 - MARKET RATE (A)



ENTRY COURT | BLDG 1 (WEST SIDE)

NORTH ELEVATION

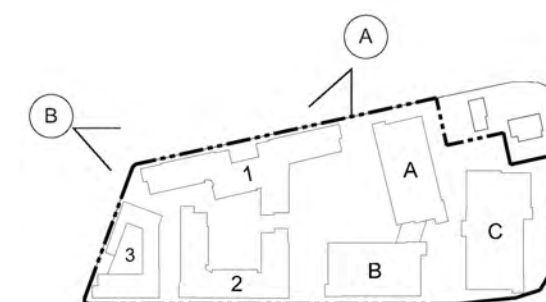
SCALE: 1/16" = 1' - 0"

B

- | | | | |
|------------------|---------------------------|-----------------------------|-------------------------|
| ① STUCCO COLOR 1 | ⑤ DETAIL COLOR | ⑨ PORCELAIN TILE | ⑬ BRICK VENEER |
| ② STUCCO COLOR 2 | ⑥ CEMENT BOARD PANELS | ⑩ VINYL WINDOW | ⑭ SMOOTH TROWEL PLASTER |
| ③ STUCCO COLOR 3 | ⑦ CEMENT BOARD SIDING | ⑪ STORE FRONT WINDOW SYSTEM | |
| ④ STUCCO COLOR 4 | ⑧ CORRUGATED METAL SIDING | ⑫ METAL RAILING | |



RESIDENTIAL BLDG 1 - MARKET RATE (B)



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Redwood City, CA

The Sobrato Organization &
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Sheet Title:
COLORS
AND MATERIALS
BUILDING 1

Job No. 14023
Date: 03/15/2019
Scale: 1/16" = 1' - 0"
Drawn By:

Sheet No:

A4.1



WEST ELEVATION

SCALE: 1/16" = 1' - 0"

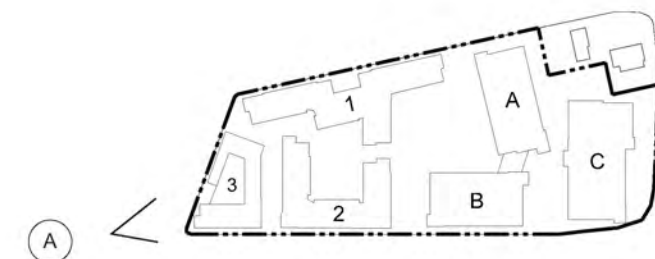
A

RESIDENTIAL BLDG 3 - AFFORDABLE

A



- | | | |
|------------------|---------------------------|------------------------------|
| 1 STUCCO COLOR 1 | 6 CEMENT BOARD PANELS | 11 STORE FRONT WINDOW SYSTEM |
| 2 STUCCO COLOR 2 | 7 CEMENT BOARD SIDING | 12 METAL RAILING |
| 3 STUCCO COLOR 3 | 8 CORRUGATED METAL SIDING | 13 BRICK VENEER |
| 4 STUCCO COLOR 4 | 9 PORCELAIN TILE | 14 SMOOTH TROWEL PLASTER |
| 5 DETAIL COLOR | 10 VINYL WINDOW | |



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Sheet Title:
COLORS
AND MATERIALS
BUILDING 3

Job No. 14023
Date: 03/15/2019
Scale: 1/16" = 1' - 0"
Drawn By:

Sheet No:

A 4.2



(A) RESIDENTIAL BLDG 3 - AFFORDABLE



CHESTNUT ST

BLDG 3 - AFFORDABLE

SOUTH ELEVATION

SCALE: 1/16" = 1' - 0"

A



(B) RESIDENTIAL BLDG 2 - MARKET RATE



PKG
ENTRY

BLDG 2

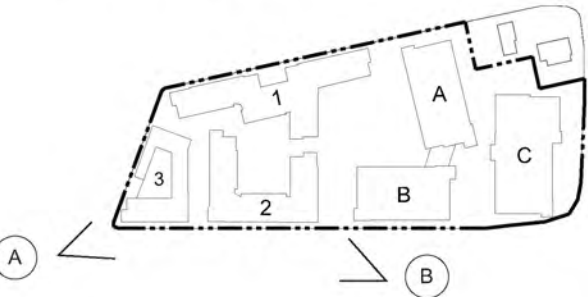
PUB.
OPEN
SPACE

SOUTH ELEVATION

SCALE: 1/16" = 1' - 0"

B

- | | | | |
|---------------------|------------------------------|---------------------------------|-----------------------------|
| 1 STUCCO
COLOR 1 | 5 DETAIL
COLOR | 9 PORCELAIN TILE | 13 BRICK VENEER |
| 2 STUCCO
COLOR 2 | 6 CEMENT BOARD
PANELS | 10 VINYL WINDOW | 14 SMOOTH TROWEL
PLASTER |
| 3 STUCCO
COLOR 3 | 7 CEMENT BOARD
SIDING | 11 STORE FRONT
WINDOW SYSTEM | |
| 4 STUCCO
COLOR 4 | 8 CORRUGATED METAL
SIDING | 12 METAL RAILING | |



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Sheet Title:
COLORS
AND MATERIALS
BUILDING 2 + 3

Job No. 14023
Date: 03/15/2019
Scale: 1/16" = 1' - 0"
Drawn By:

Sheet No:

A4.3



BAY RD

BLDG 2

PODIUM

BLDG 1 - GROUND FLOOR CHILDCARE

GROUND FLOOR RETAIL

EAST ELEVATION

SCALE: 1/16" = 1' - 0"

A

RESIDENTIAL BLDG 2 and BLDG 1 - MARKET RATE (A)



1 STUCCO
COLOR 1

2 STUCCO
COLOR 2

3 STUCCO
COLOR 3

4 STUCCO
COLOR 4

5 DETAIL
COLOR

6 CEMENT BOARD
PANELS

7 CEMENT BOARD
SIDING

8 CORRUGATED METAL
SIDING

9 PORCELAIN TILE

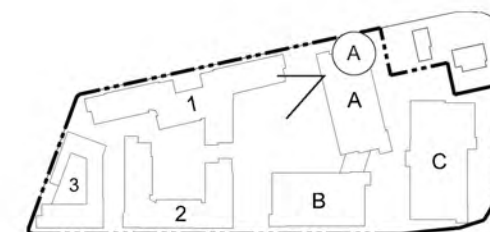
10 VINYL WINDOW

11 STORE FRONT
WINDOW SYSTEM

12 METAL RAILING

13 BRICK VENEER

14 SMOOTH TROWEL
PLASTER



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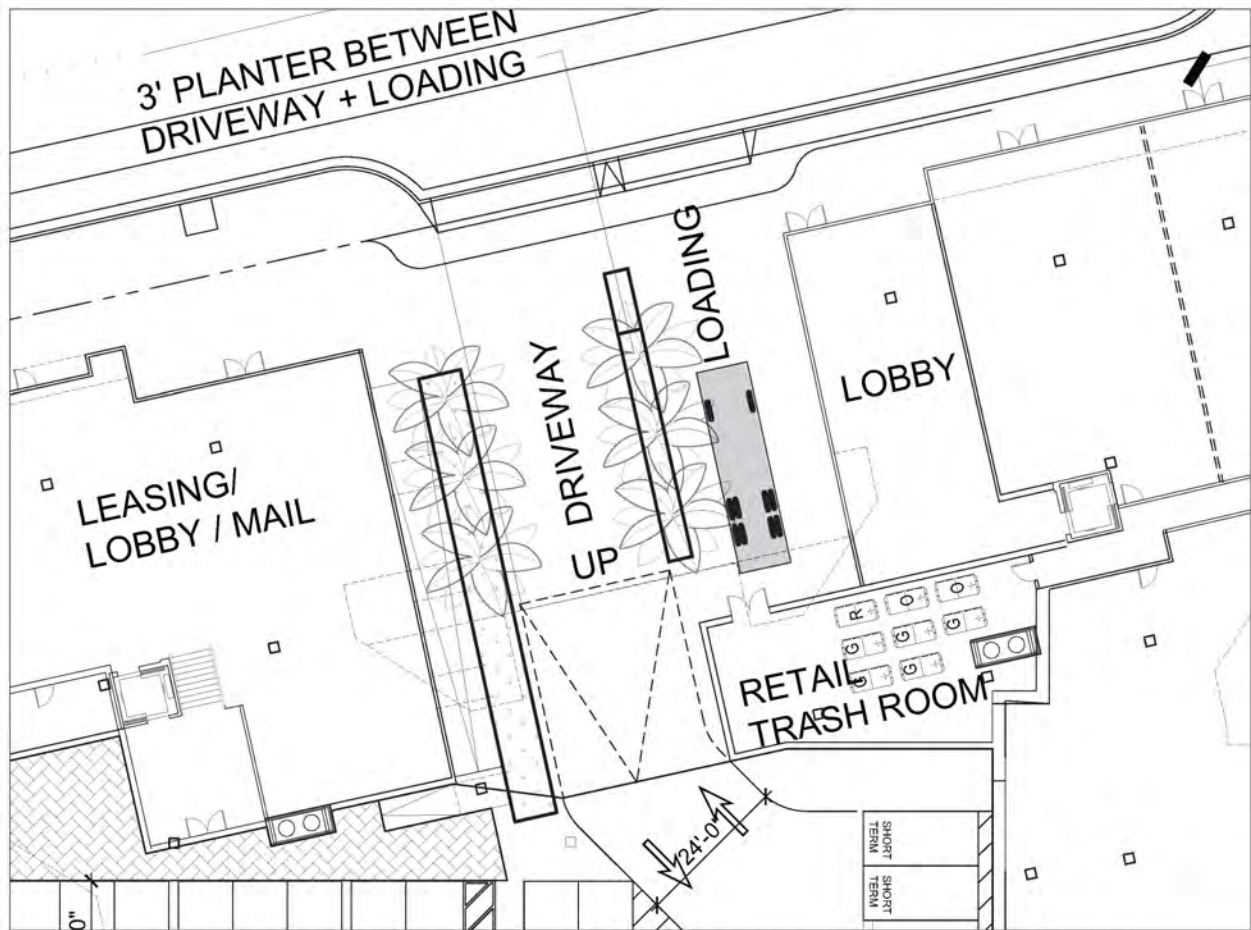
The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
COLORS
AND MATERIALS
BUILDING 1 + 2

Job No. 14023
Date: 03/15/2019
Scale: 1/16" = 1' - 0"
Drawn By:

Sheet No:

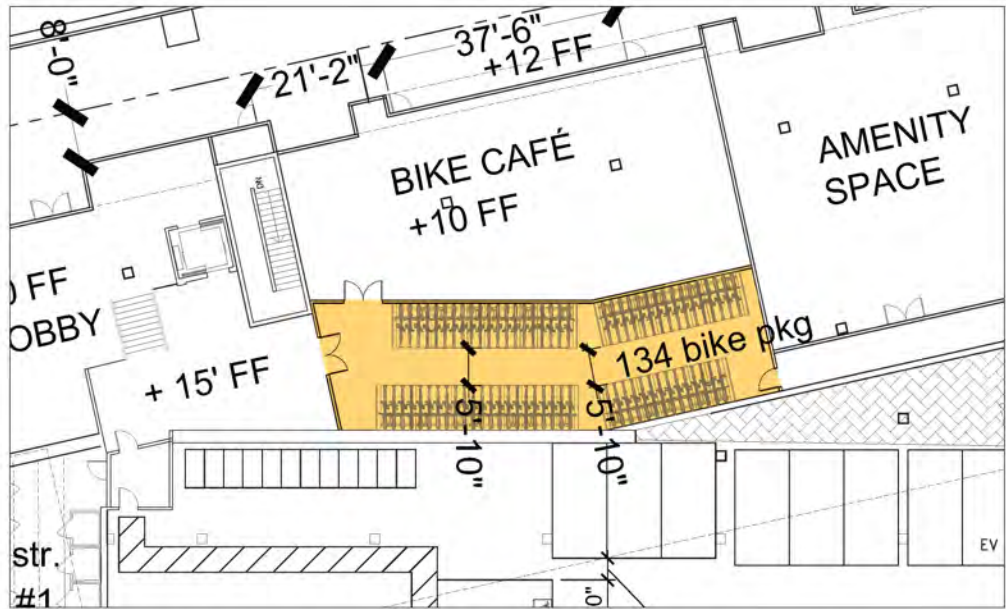
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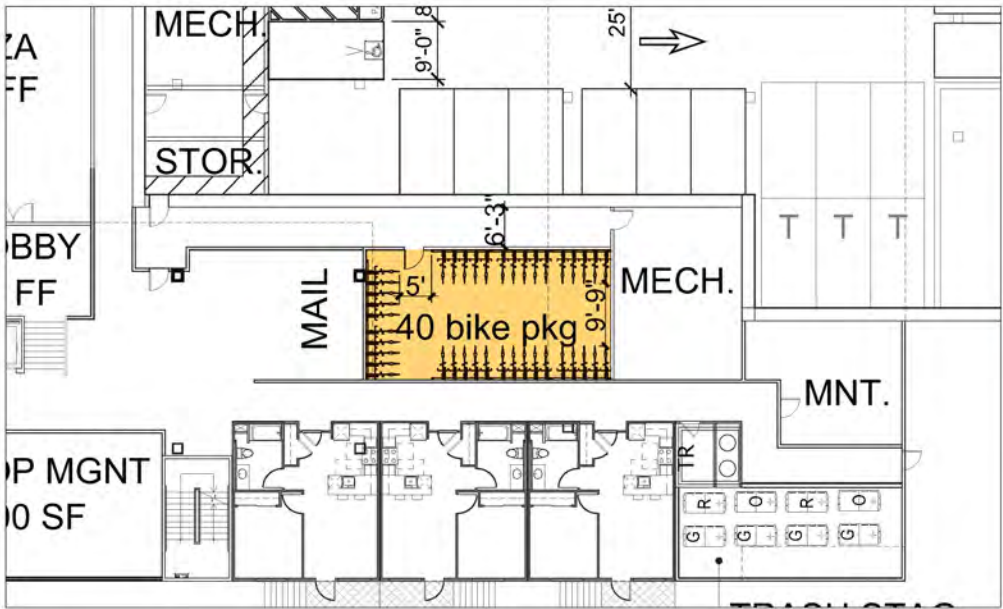
DRIVEWAY / LOADING ZONE ON BROADWAY WITH 3 FT RAISED PLANTER



PERSPECTIVE VIEW OF PROPOSED LOADING / DRIVEWAY ON BROADWAY



BICYCLE PARKING FOR MARKET-RATE RESIDENTIAL



BICYCLE PARKING FOR AFFORDABLE RESIDENTIAL

DOUBLE DOCKER™

ULTRA HIGH-DENSITY, TWO-TIER BICYCLE RACK

groundcontrolsystems.com
info@groundcontrolsystems.com

FOR THE BIKES

- Built-in locking loop secures bike frame & tire
- Vertically staggered design reduces bike conflict
- Accommodates almost all bike types

FOR THE USER

- Tray smoothly lowers and raises bicycles with controlled pump
- Lower & lifts the bicycles for easy use
- User only lifts bicycle 2" off the ground, exceeding most nationwide ordinance standards
- Accommodates almost all rider demographics

THE DETAILS

- Configurations by sets of 2
- 4, 6, 8, & 10-bike capacity units
- Two-tier enables double the density
- Gas strut load assist
- Convenient locking loops secure the bicycle frame & tire
- Movable legs allow for flexible layouts, top shelf can stand alone to create space for other racks or storage
- Silver hot-dipped galvanized finish
- Surface mount - Concrete (anchors sold separately)

GROUND CONTROL SYSTEMS™

Innovative Bike & Board Parking



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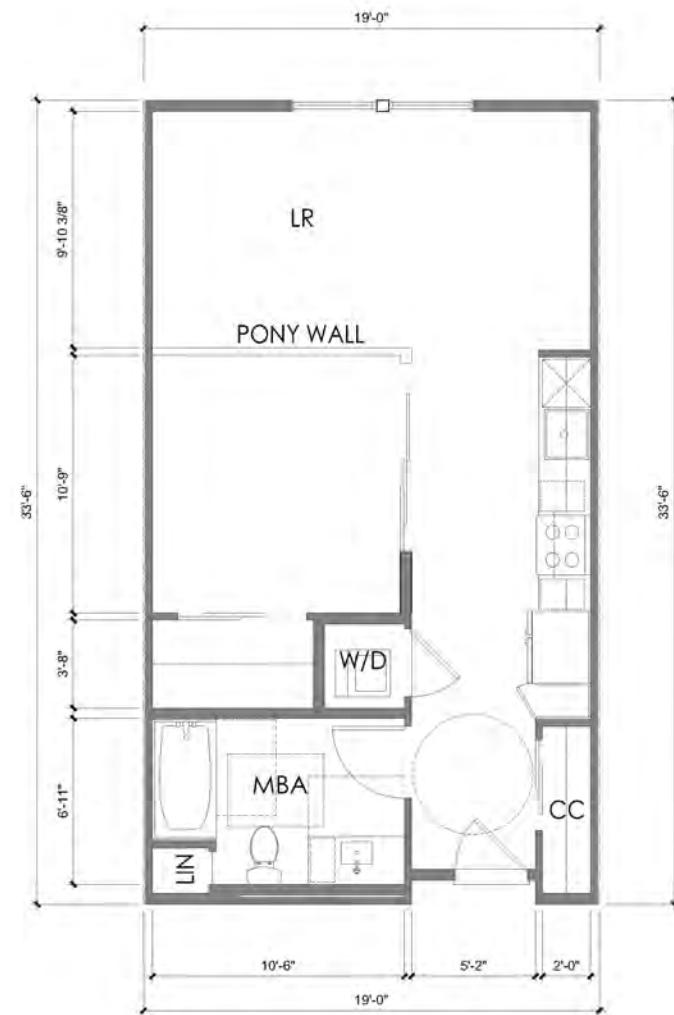
Broadway Plaza
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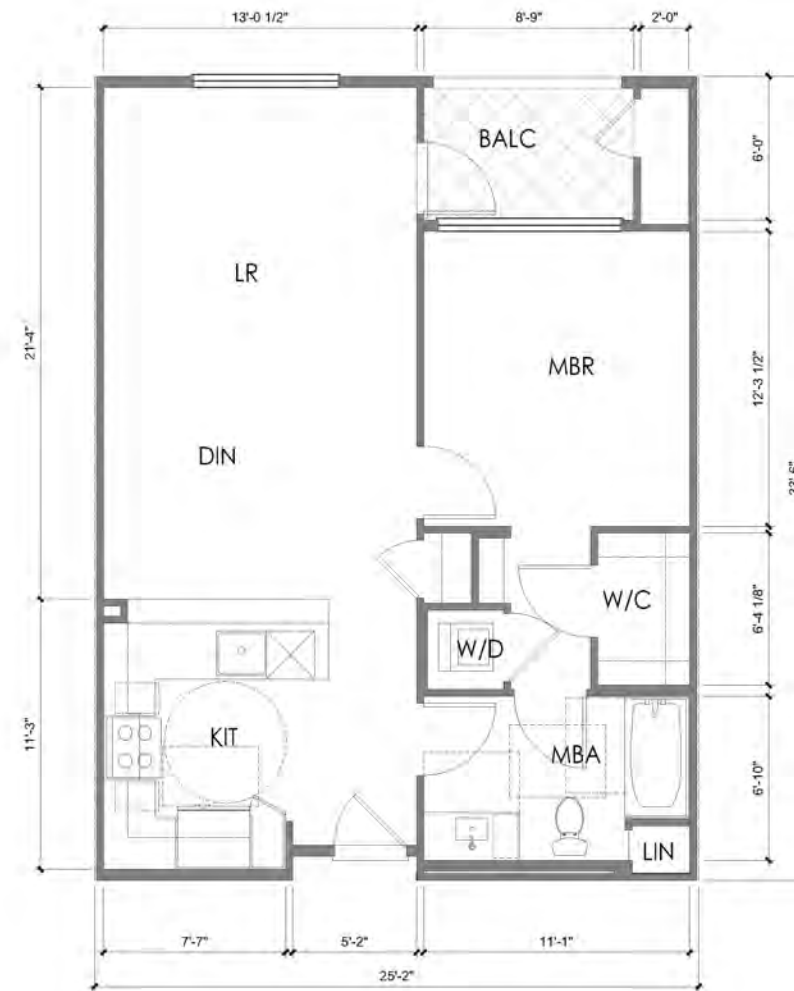
Sheet Title:
LOADING + BICYCLE
ROOM EXHIBIT

Job No. 14023
Date: 03/15/2019
Scale: 1" = 30' - 0"
Drawn By:

Sheet No:
A 4.5



S (Typical Studio)
Net Rentable: 585 s.f.



1B (Typical 1 BR)
Net Rentable: 718 s.f.



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T SQUARE

: Architecture
: Planning
: Urban Design



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Redwood City, CA

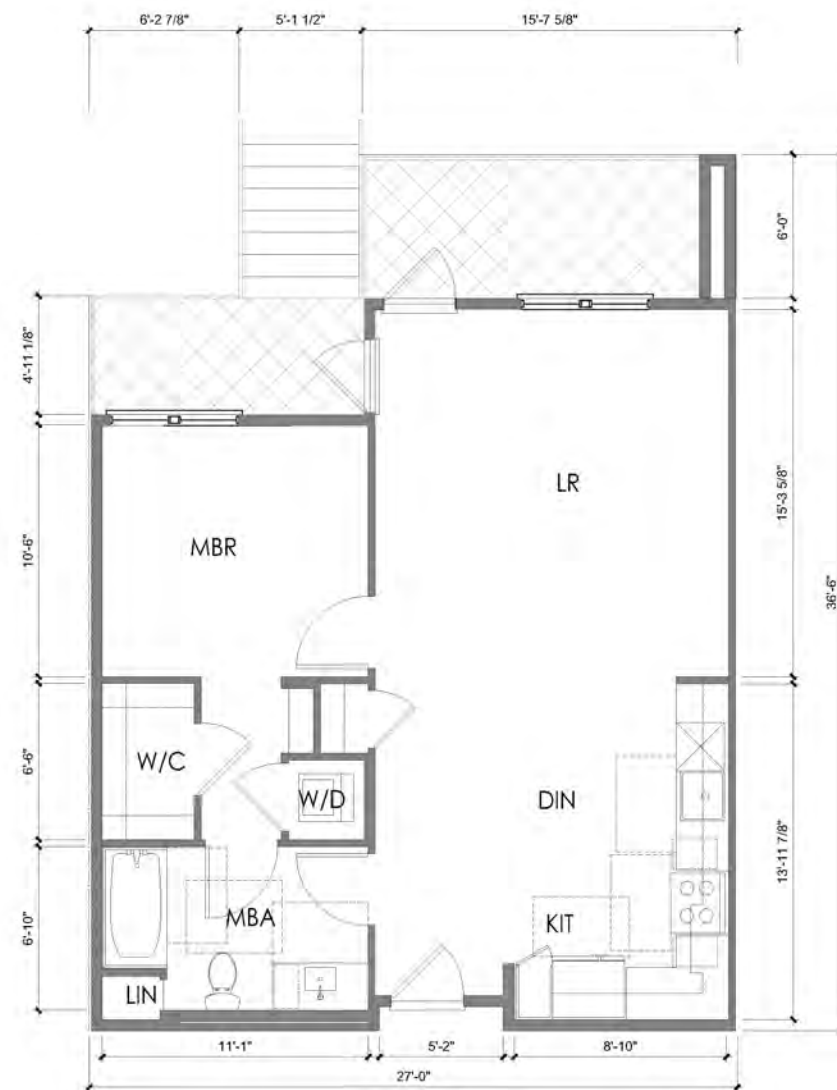
The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
TYPICAL UNIT
PLANS
(MARKET RATE)

Job No. 14023
Date: 03/15/2019
Scale: 1/4" = 1' - 0"
Drawn By:

Sheet No:

A 4.6



1A (Typical Stoop Unit)
Net Rentable: 707 s.f.



2A (Typical 2 BR)
Net Rentable: 1,100 s.f.



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Sheet Title:
TYPICAL UNIT
PLANS
(MARKET RATE)

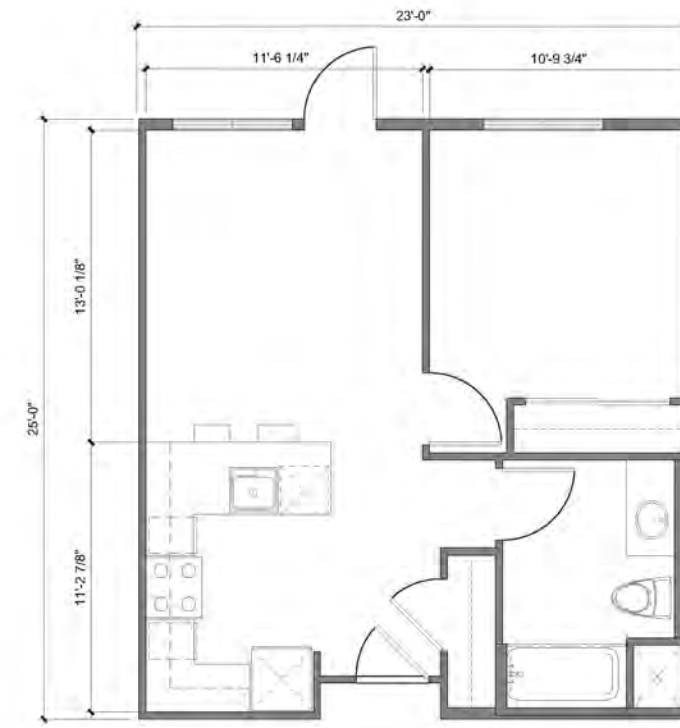
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Date: 03/15/2019
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Sheet No:

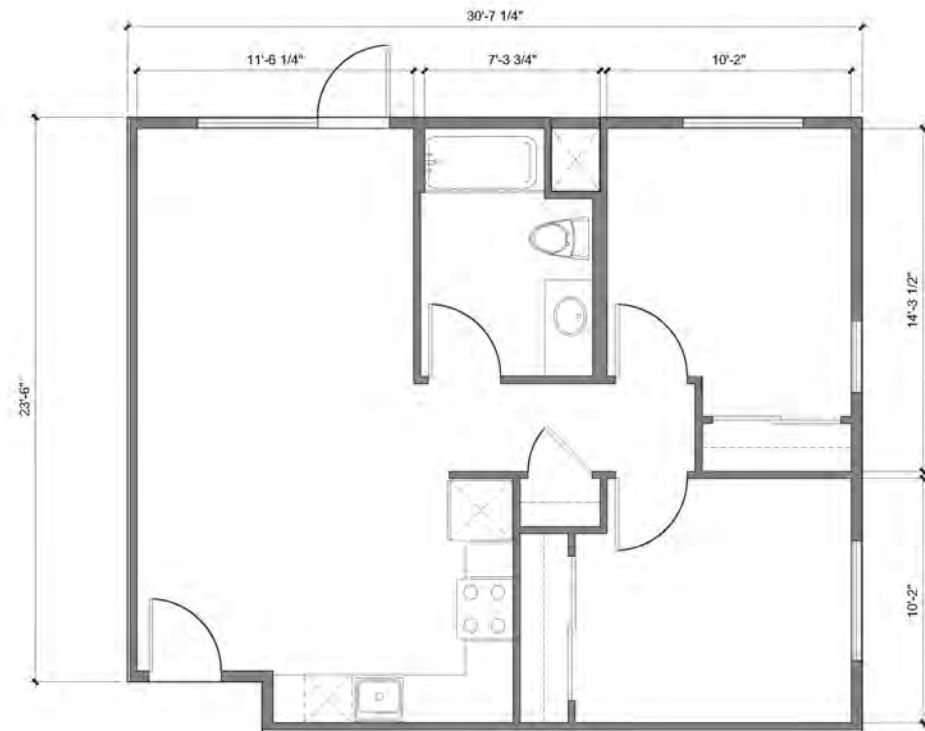
A 4.7



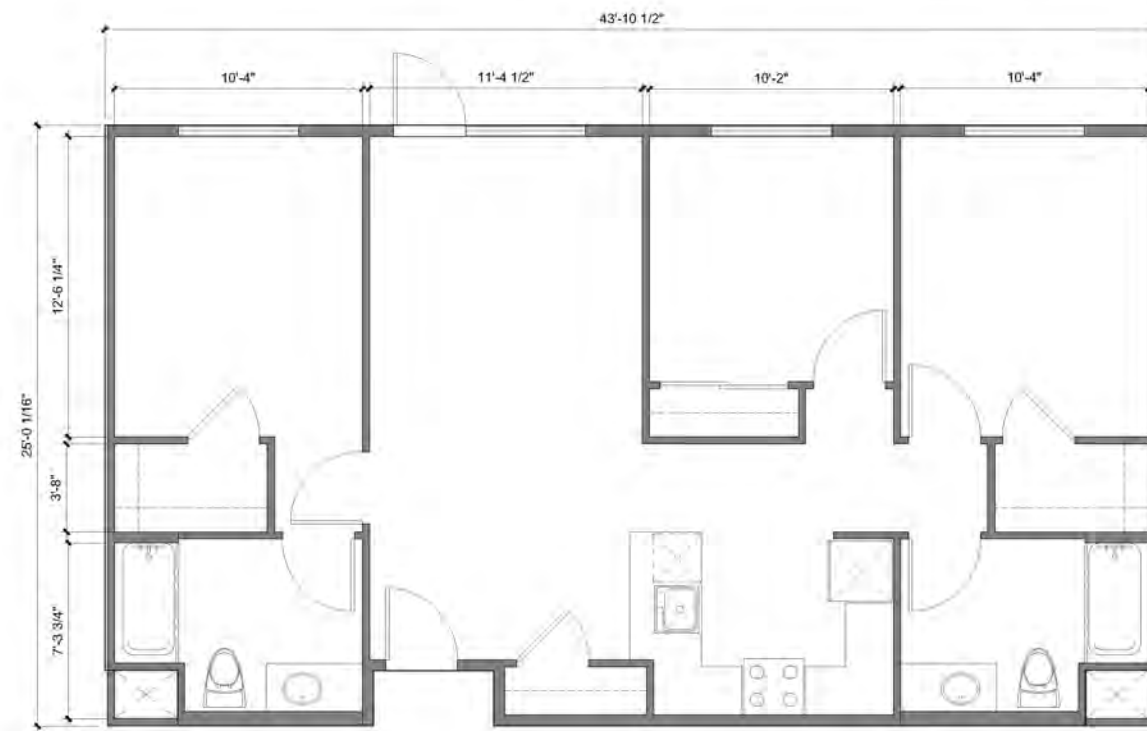
S (Typical Studio)
Net Rentable: 384 s.f.



1A (Typical 1 BR)
Net Rentable: 562 s.f.



2A (Typical 2 BR)
Net Rentable: 765 s.f.



3A (Typical 3 BR)
Net Rentable: 1071 s.f.



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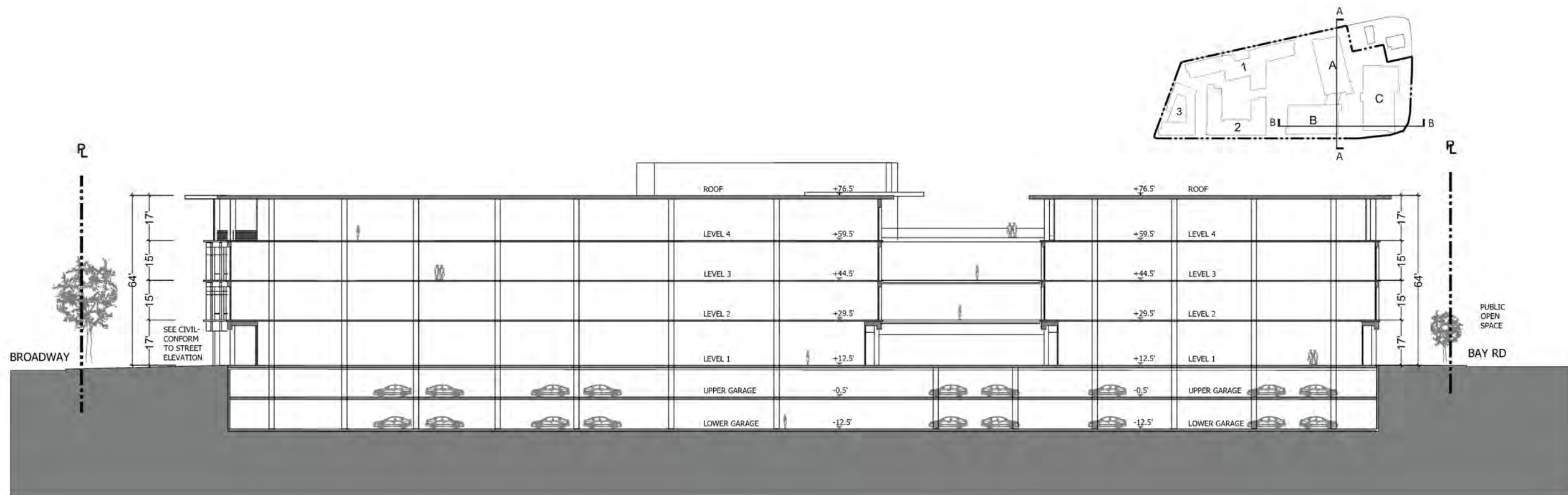
The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
TYPICAL UNIT
PLAN
(AFFORDABLE)

Job No. 14023
Date: 03/15/2019
Scale: 1/4" = 1' - 0"
Drawn By:

Sheet No:

A 4.8



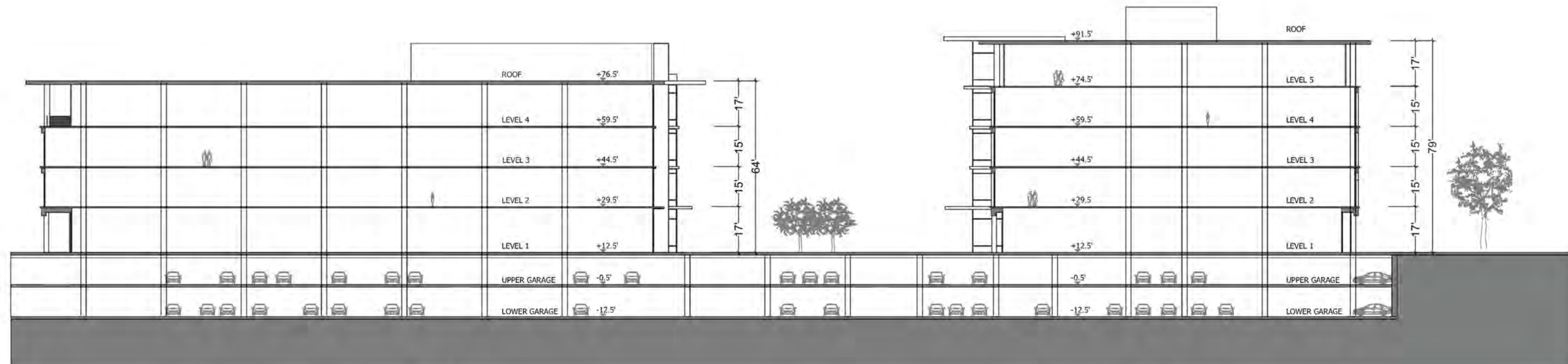
BLDG A

BLDG B

OFFICE BUILDING SECTION A

SCALE: 1" = 20' - 0"

A



BLDG B

BLDG C

OFFICE BUILDING SECTION B

SCALE: 1" = 20' - 0"

B



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Architecture
Planning
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Redwood City, CA

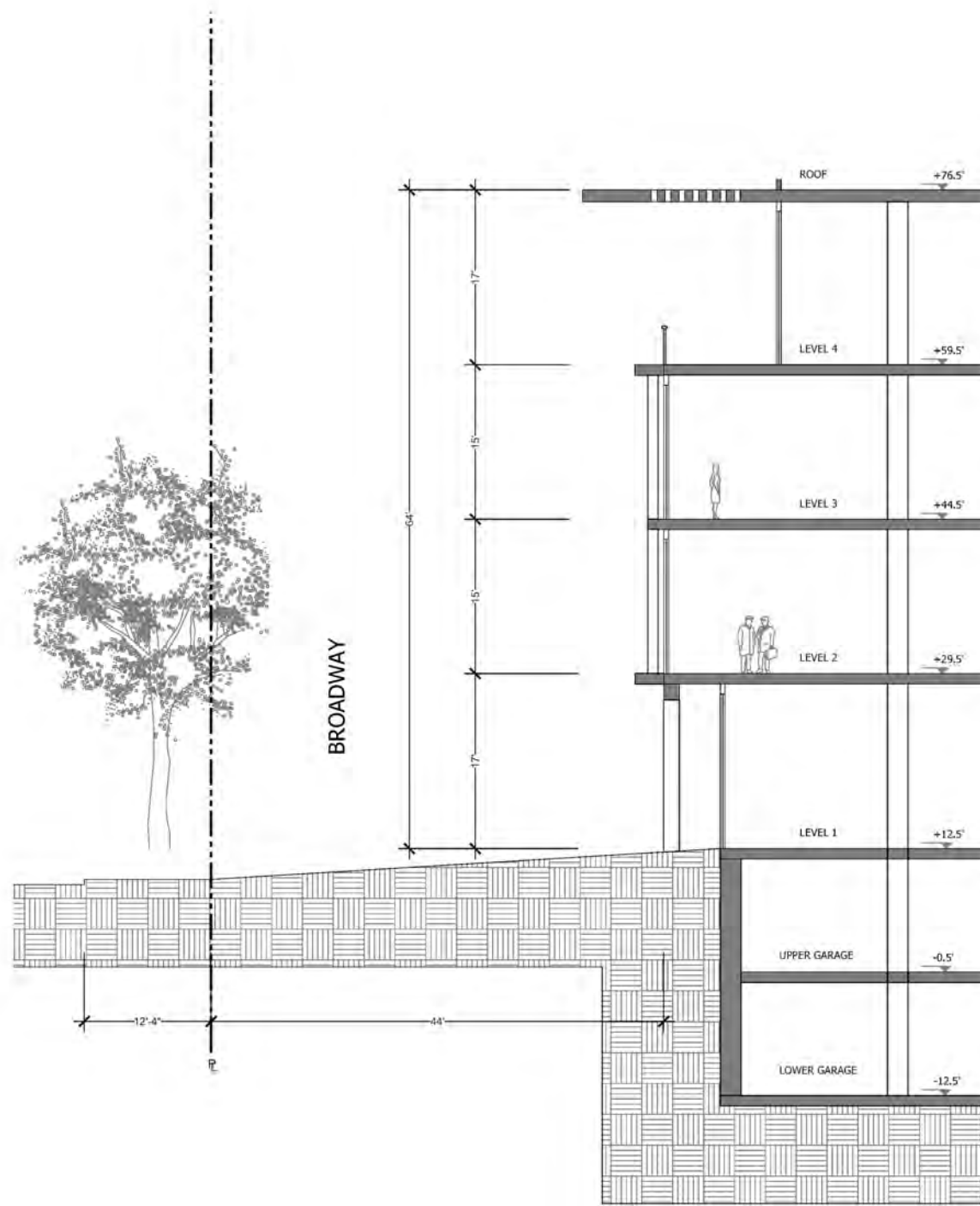
The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
BUILDING SECTIONS
(OFFICE)

Job No. 14023
Date: 03/15/2019
Scale: 1" = 20' - 0"
Drawn By:

Sheet No:

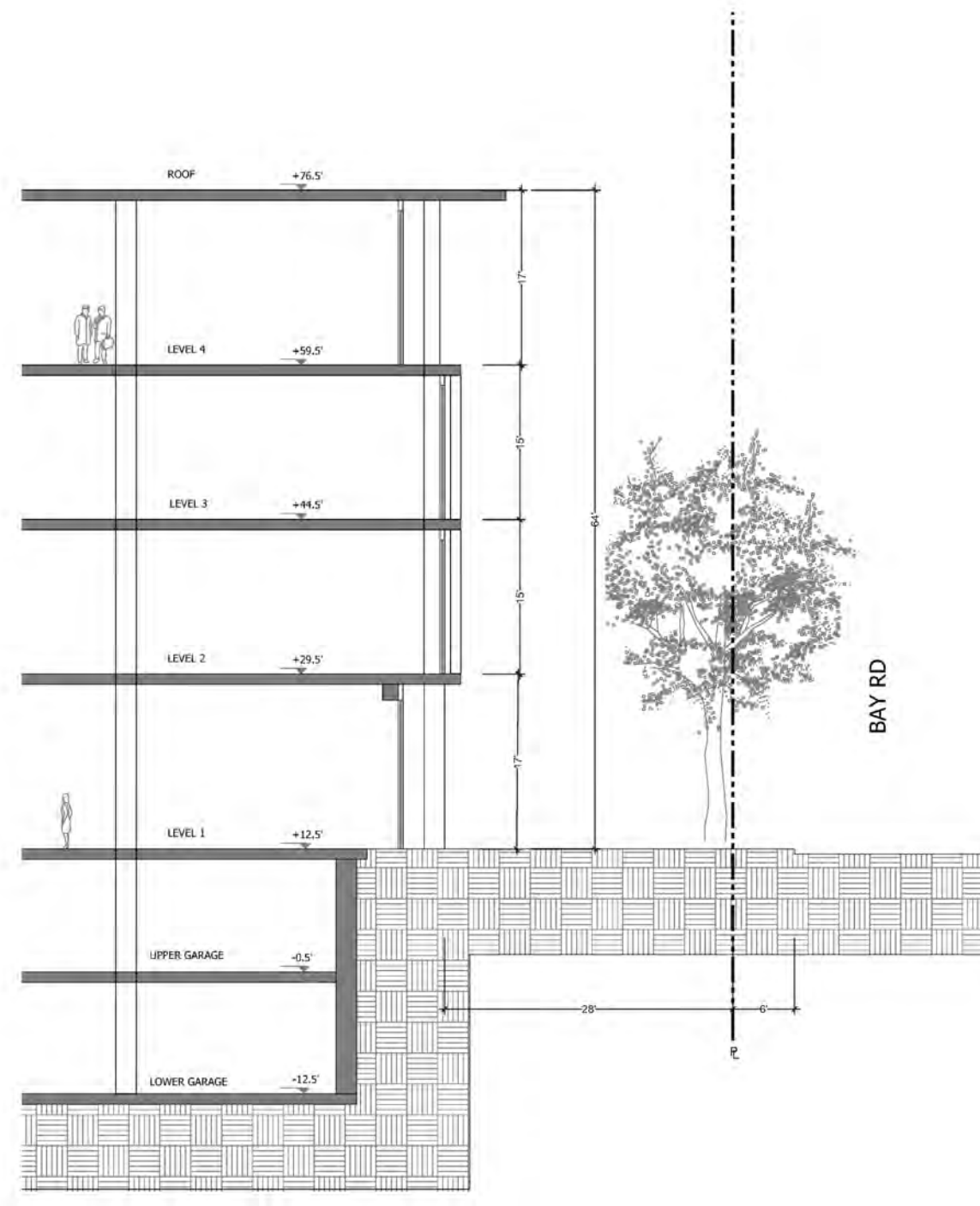
A5.1



Broadway Rd - Wall Section

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

A



Bay Rd - Wall Section

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

B



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: Planning
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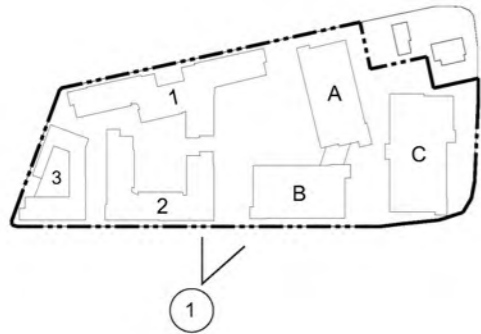
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Sheet Title:
WALL SECTIONS
(OFFICE)

Job No. 14023
Date: 03/15/2019
Scale: 1" = 20' - 0"
Drawn By:

Sheet No:

A 5.2



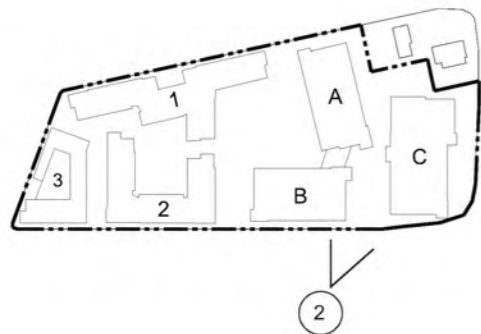
BLDG 2

PUBLIC OPEN SPACE

BLDG B

VIEW LOOKING THROUGH PARK AT BAY ENTRANCE

1



BLDG B

BLDG A

BLDG C

VIEW OF OFFICES FROM BAY RD

2



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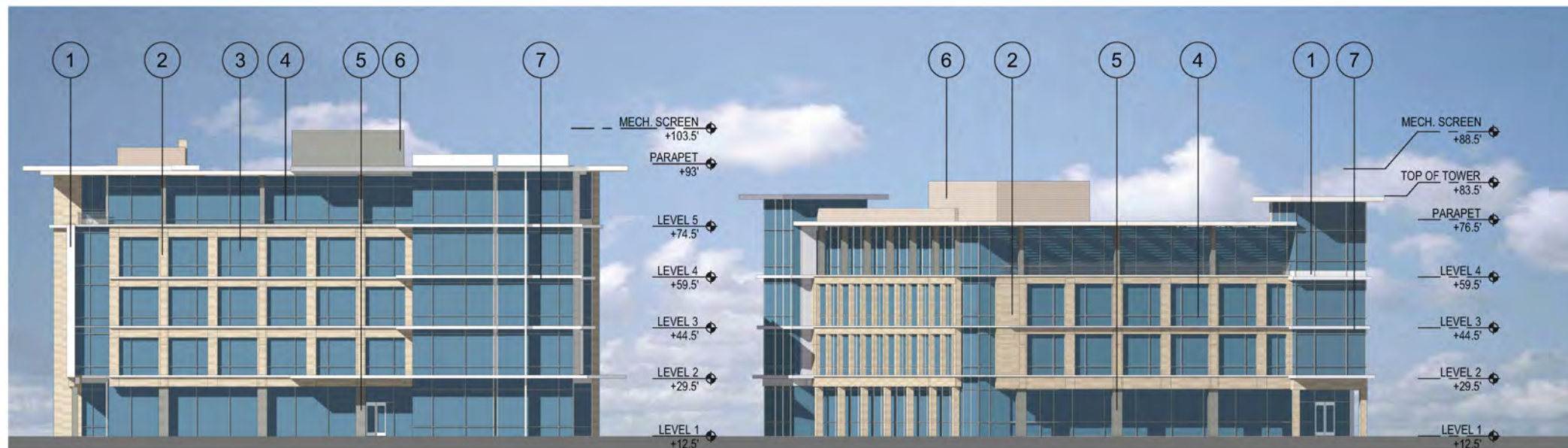
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MidPen Housing Corporation

Sheet Title:
BUILDING
PERSPECTIVES
(OFFICE)

Job No. 14023
Date: 03/15/2019
Scale: N.T.S.
Drawn By:

Sheet No:

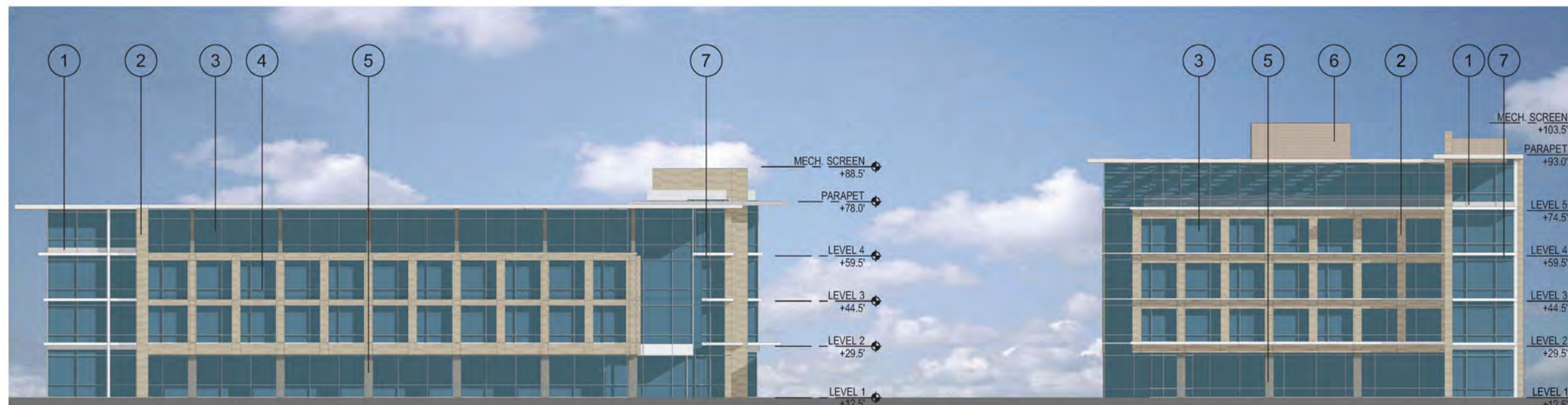
A6.1



NORTH ELEVATION

SCALE: 3/64" = 1' - 0"

A

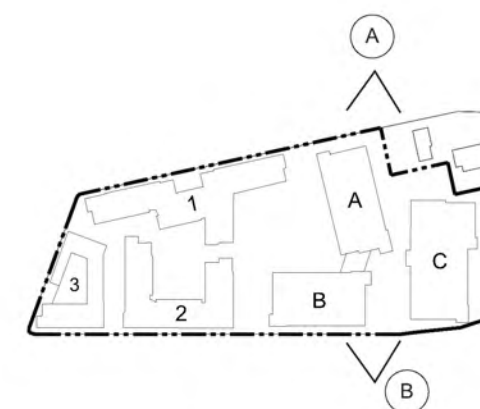


SOUTH ELEVATION

SCALE: 3/64" = 1' - 0"

B

- ① PAINTED METAL (WHITE)
- ② GFRC (BEIGE)
- ③ GLASS
- ④ ALUMINUM WINDOW (SILVER)
- ⑤ GFRC (MED GREY)
- ⑥ PAINTED STUCCO (MED GREY)
- ⑦ PAINTED METAL TRIM (WHITE)



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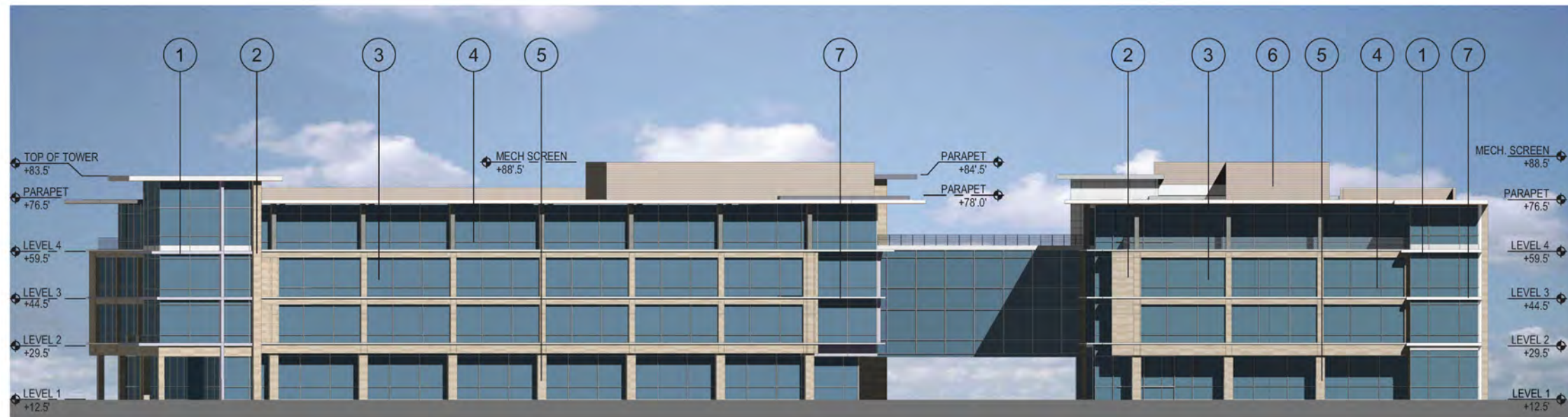
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MidPen Housing Corporation

Sheet Title:
COLORS
AND MATERIALS
(OFFICE)

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

A 7.1



WEST ELEVATION

SCALE: 3/64" = 1' - 0"

A

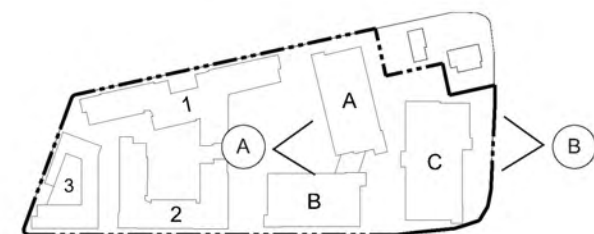


EAST ELEVATION

SCALE: 3/64" = 1' - 0"

B

- ① PAINTED METAL (WHITE)
- ② GFRC (BEIGE)
- ③ GLASS
- ④ ALUMINUM WINDOW (SILVER)
- ⑤ GFRC (MED GREY)
- ⑥ PAINTED STUCOO (MED GREY)
- ⑦ PAINTED METAL TRIM (WHITE)



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Sheet Title:
COLORS
AND MATERIALS
(OFFICE)

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

A 7.2

Varsity® **BIKE DOCK**

ORGANIZED, HIGH-DENSITY
BIKE PARKING

groundcontrolsystems.com
info@groundcontrolsystems.com



FOR THE BIKES

- No slipping & falling with wheels resting in docks
- Smart Guards® protect bike frames from damage
- Offset handlebars prevent bicycle conflict

FOR THE USER

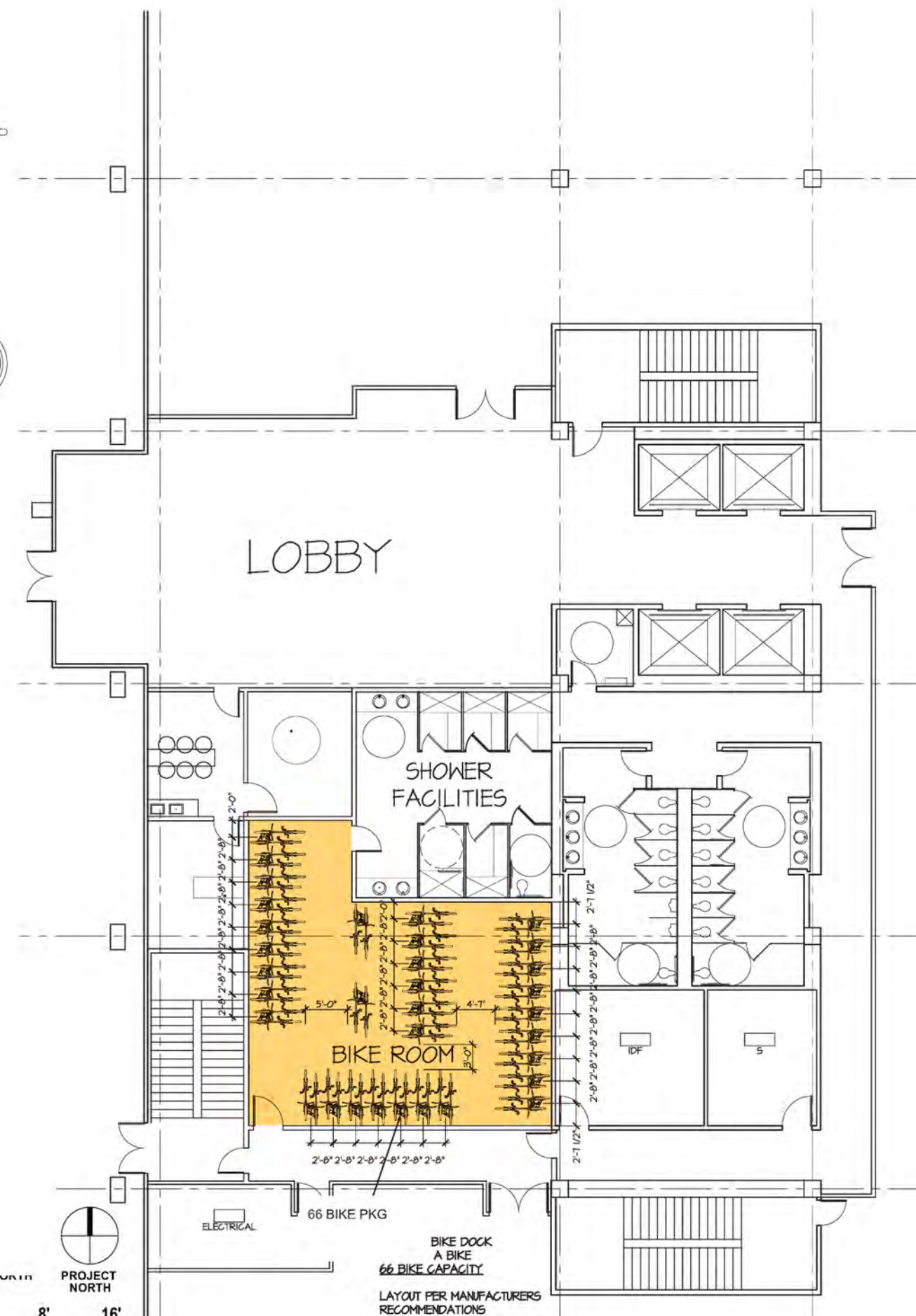
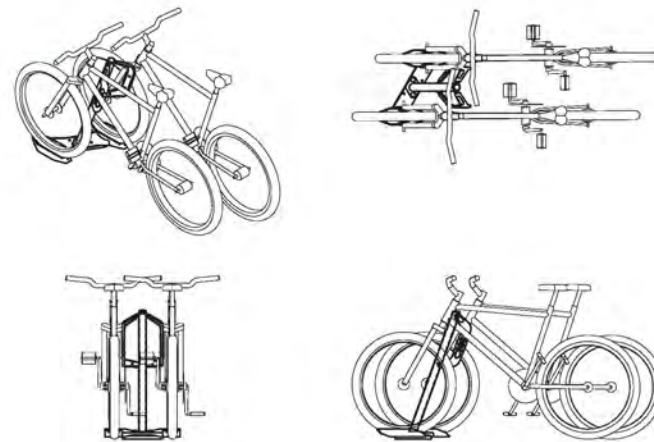
- No more bicycle conflict, bikes have designated, easy to use parking spaces
- QR tag links to helpful Smart & Safe Bicycle Parking video
- High-security design allows user to lock the bike frame and tire to the Varsity®

THE DETAILS

- 2 bicycles secured
- Black injection molded urethane Smart Guards® protect bike frames from metal-to-metal contact
- Steel locking loops for higher security
- Wheel pockets keeps bicycles upright
- PC/ABS injection molded cap
- QR tag links to Smart & Safe Bicycle Parking info
- 20-year warranty DuraPlas® black finish, or 10-year warranty silver hot dipped galvanized finish available
- Elevated Deck allows for easy removal of debris and reduces corrosion



GROUND CONTROL
SYSTEMS®
Innovative Bike & Board Parking



FIRST LEVEL BUILDING C - ENLARGED FLOOR PLAN

SCALE: 1/16" = 1'-0"

1



STUDIO
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Architecture
Planning
Urban Design



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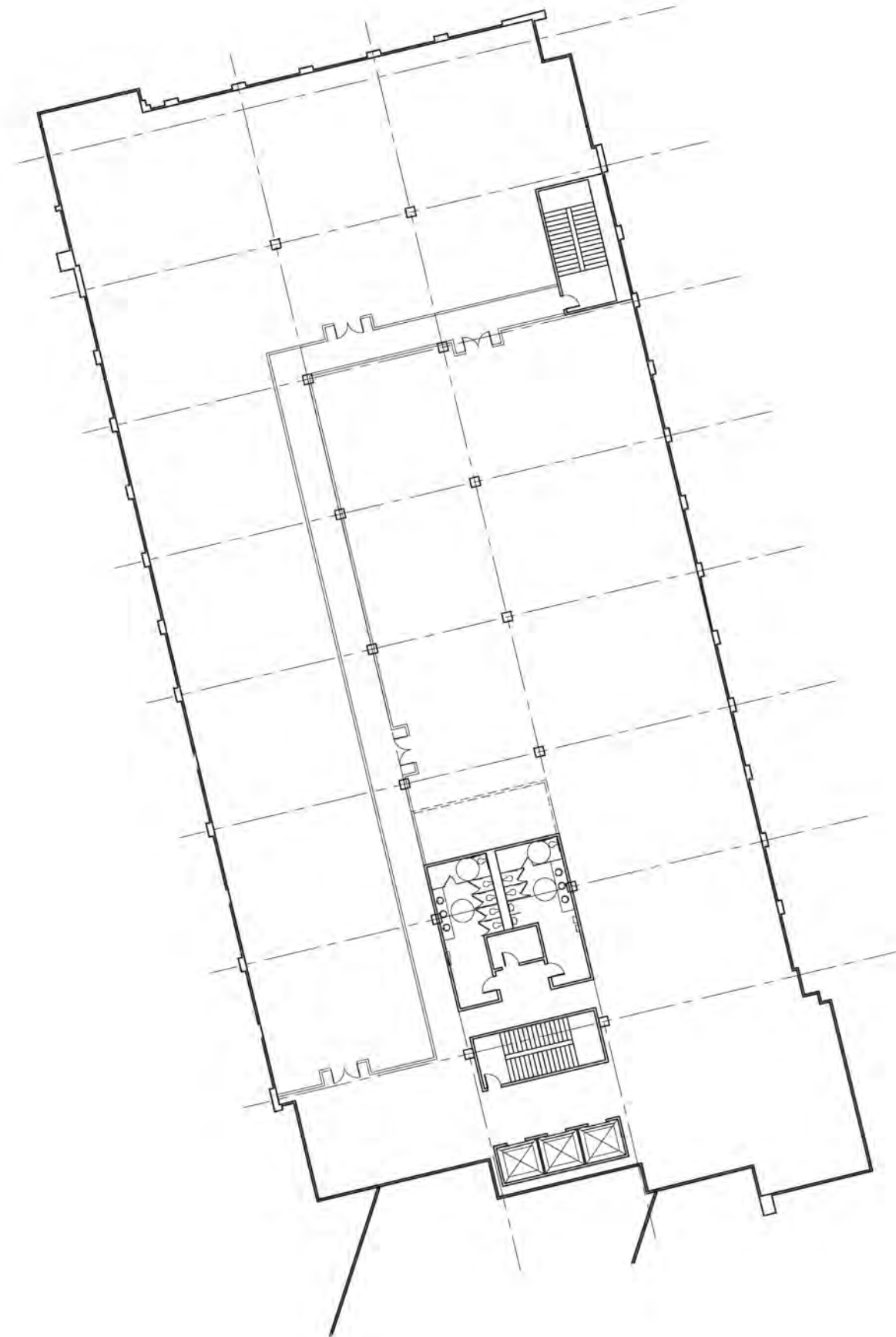
The Sobrato Organization &
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Sheet Title:
OFFICE
BUILDING C
BIKE ROOM

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

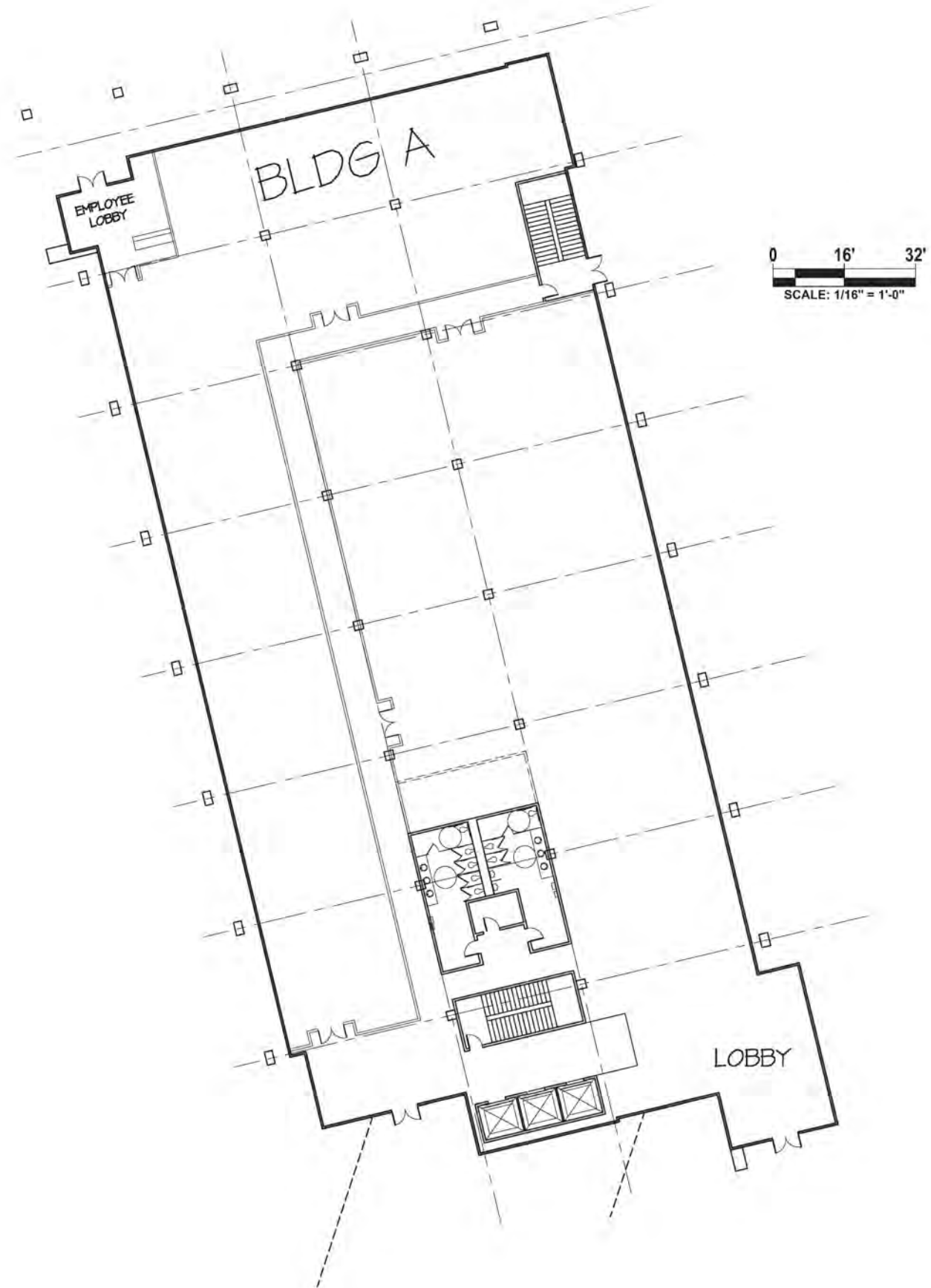
A 7.3



SECOND LEVEL BUILDING A FLOOR PLAN

SCALE: 1/16" = 1'-0"

2



FIRST LEVEL BUILDING A FLOOR PLAN

SCALE: 1/16" = 1'-0"

1



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: Planning
: Urban Design



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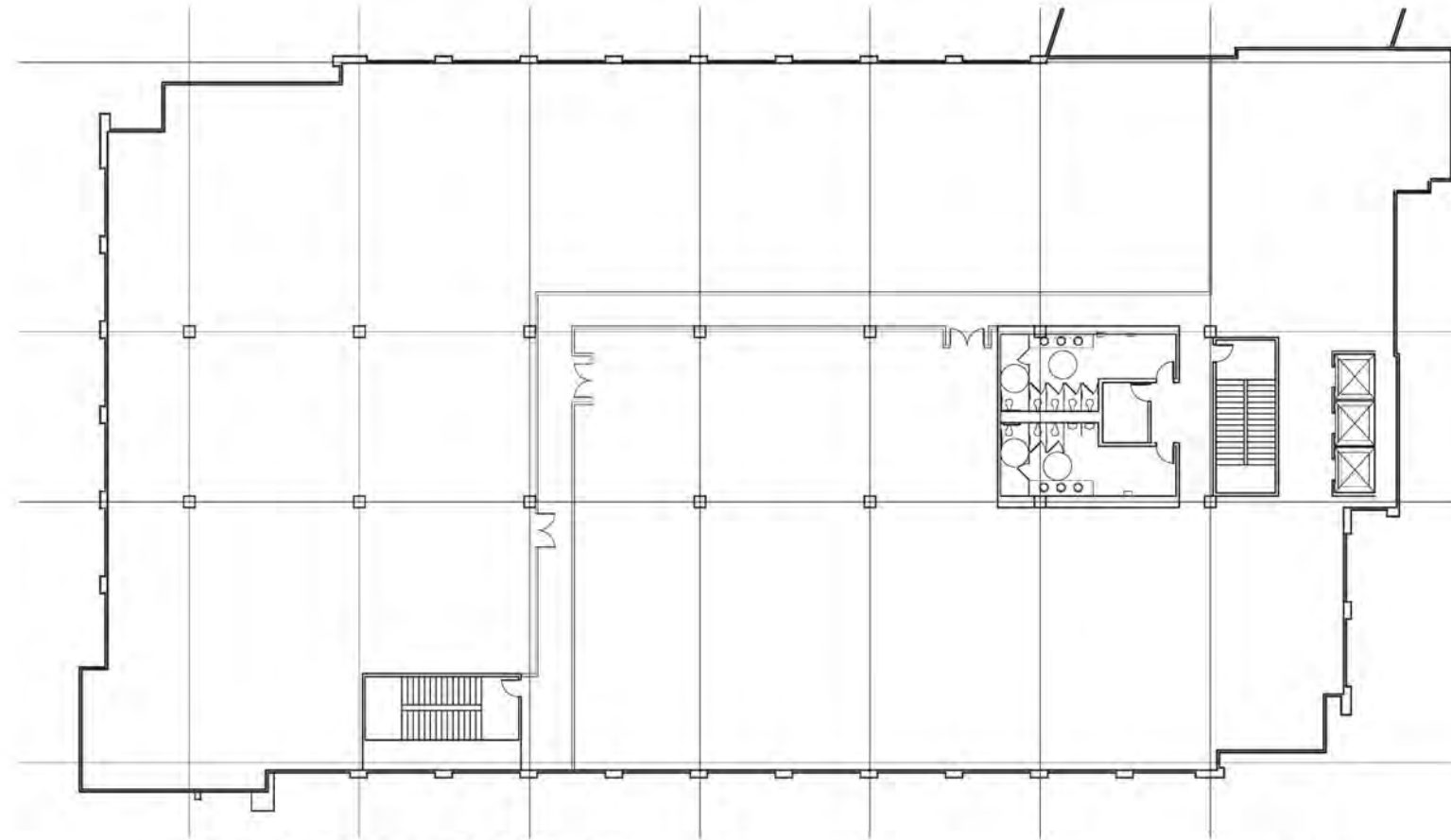
The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
BUILDING A
LEVEL 1 & 2
(OFFICE)

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

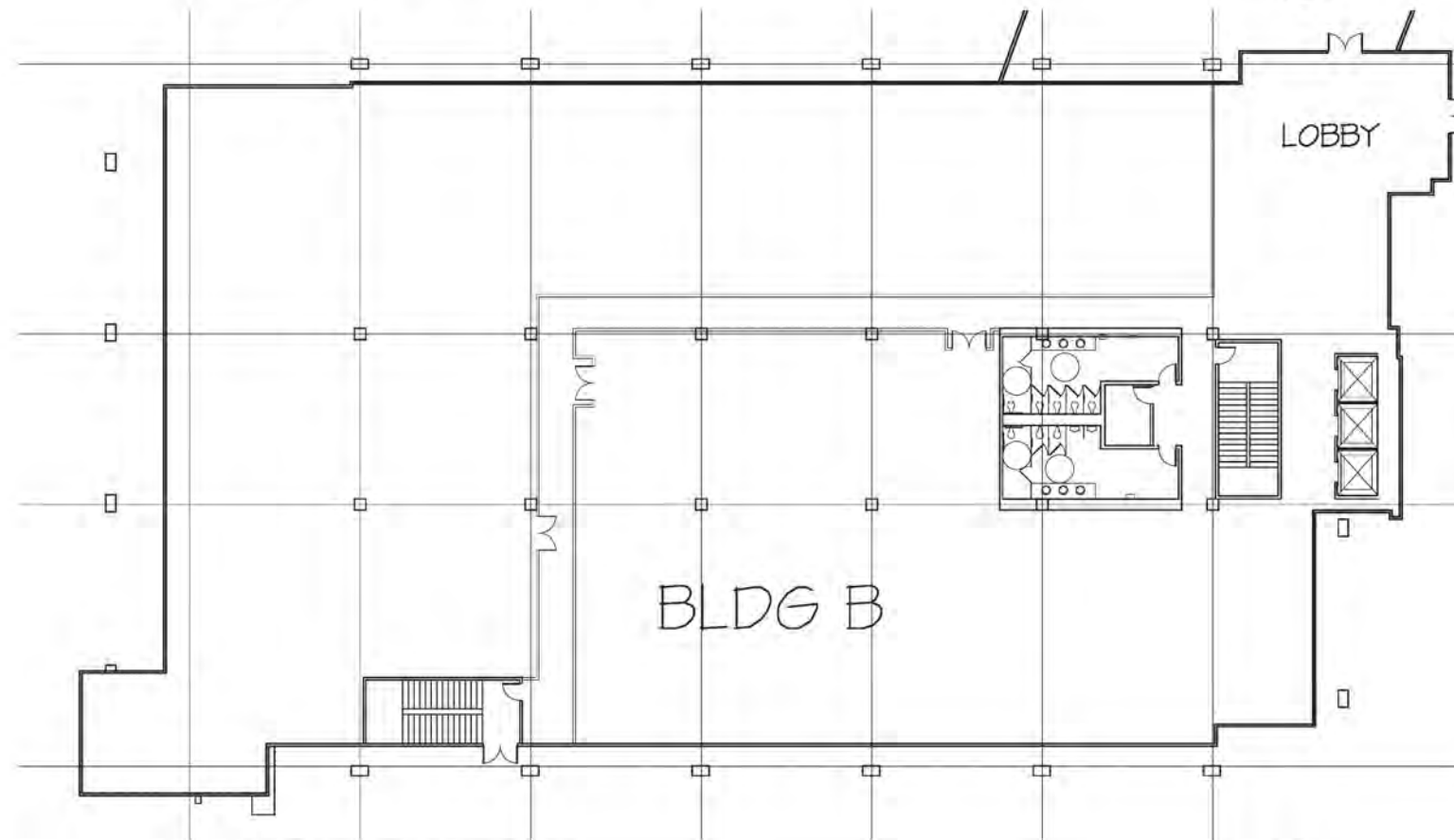
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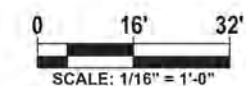
SECOND LEVEL FLOOR PLAN

SCALE: 1/16" = 1'-0"



FIRST LEVEL FLOOR PLAN

SCALE: 1/16" = 1'-0"



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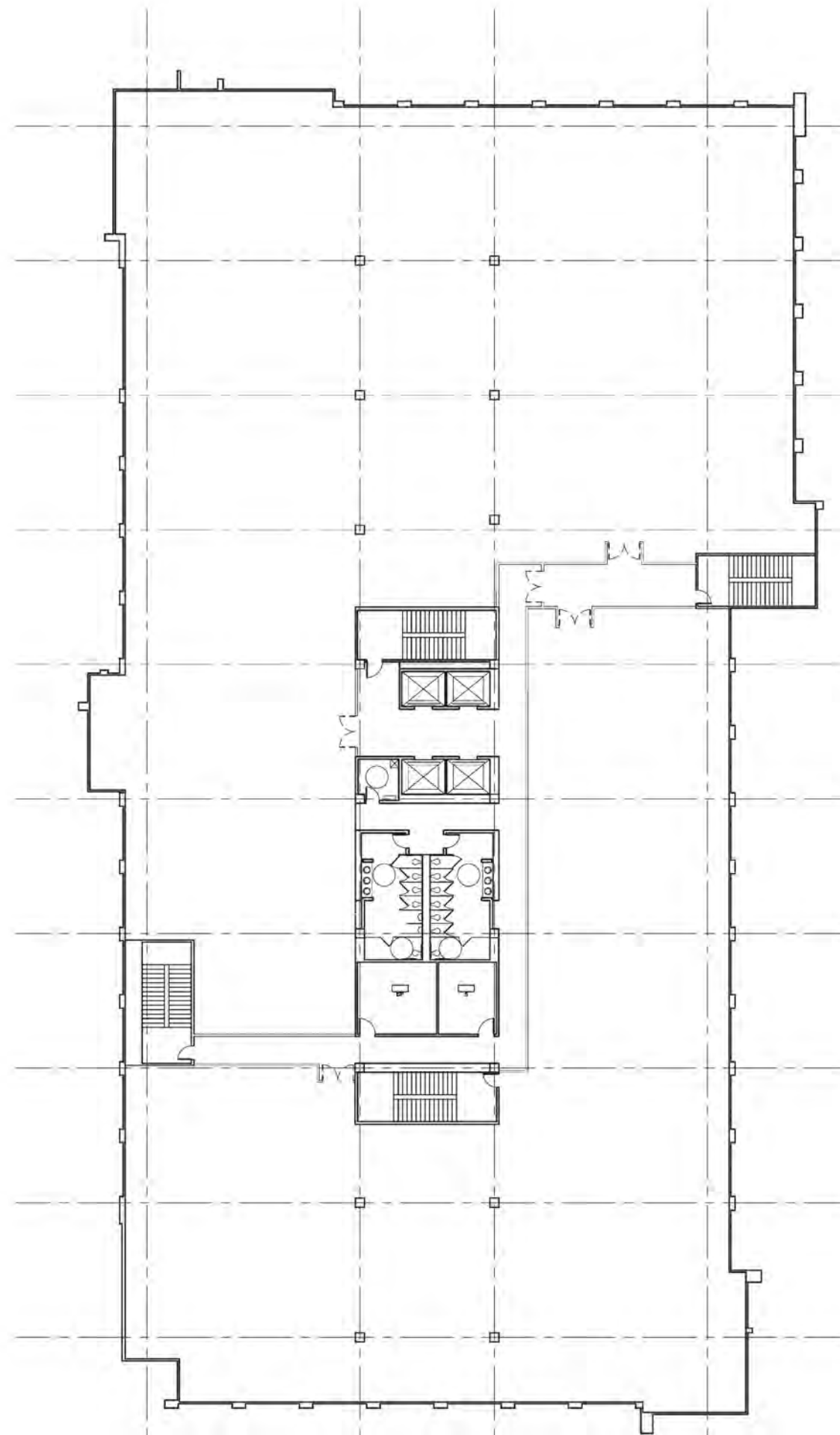
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Sheet Title:
**BUILDING B
LEVEL 1 & 2
(OFFICE)**

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

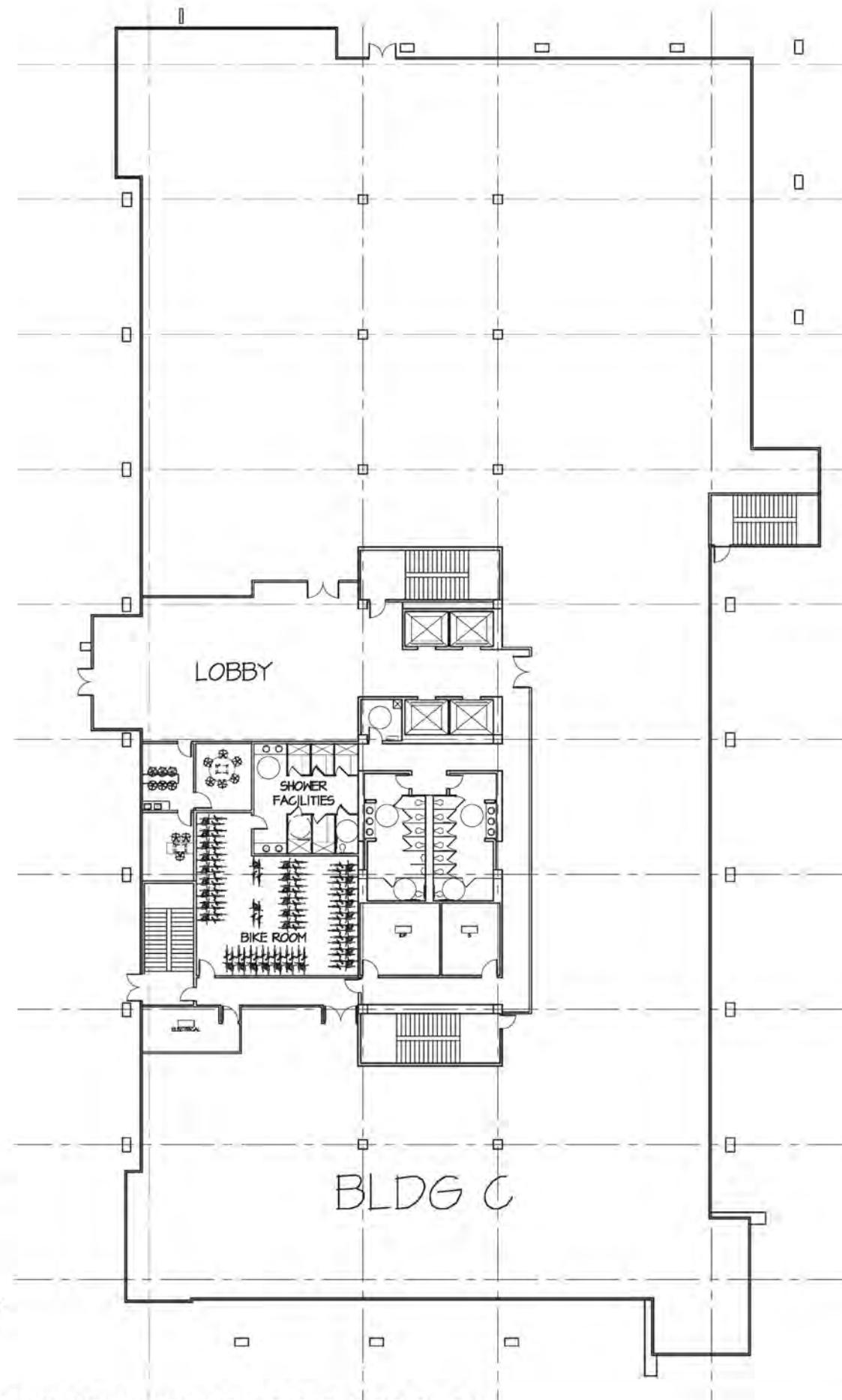
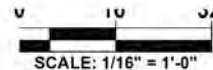
A 7.5



SECOND, THIRD & FOURTH LEVEL BUILDING C FLOOR PLAN

SCALE: 1/16" = 1'-0"

2



FIRST LEVEL BUILDING C FLOOR PLAN

SCALE: 1/16" = 1'-0"

1



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Sheet Title:
BUILDING C
LEVEL 1 & 2
(OFFICE)

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

A 7.6



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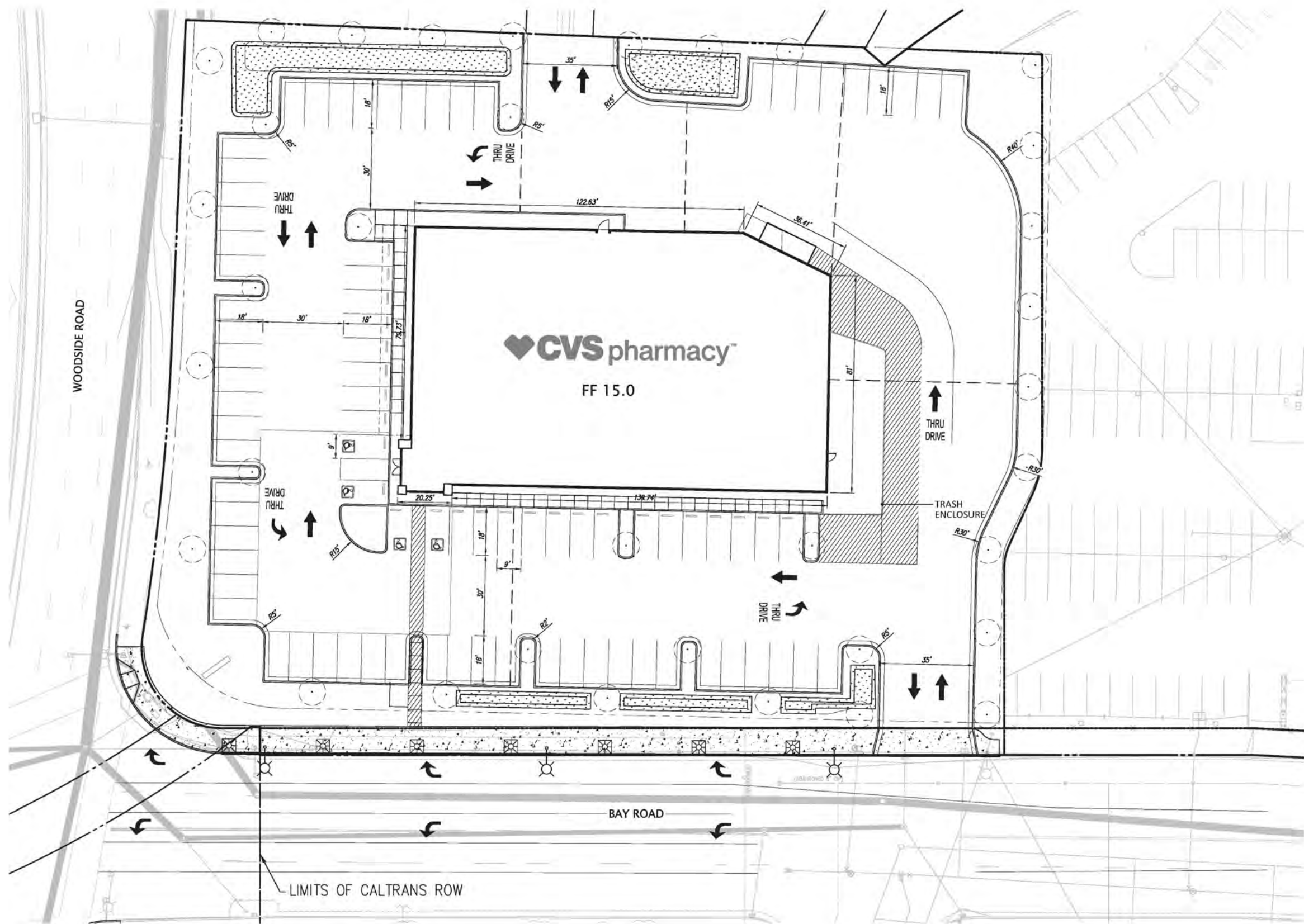
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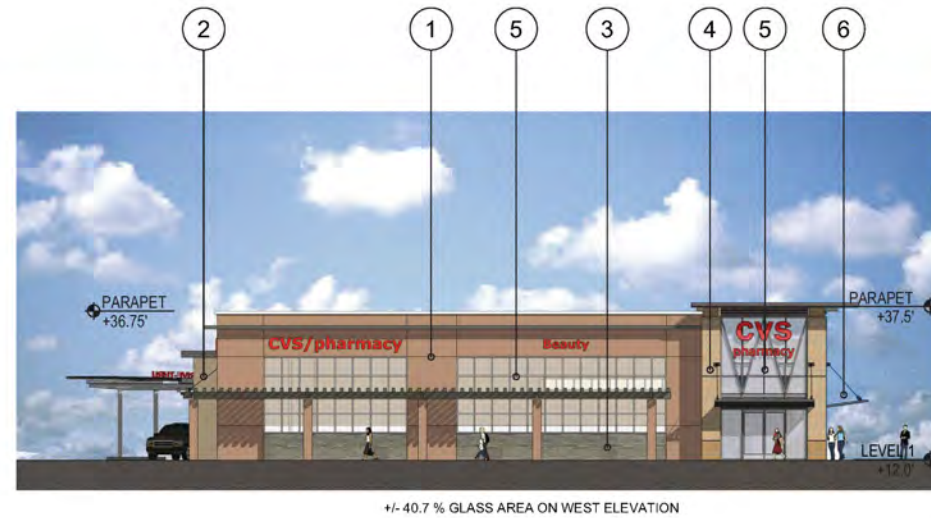
Sheet Title:
SITE PLAN
(CVS BUILDING)

Job No. 14023
Date: 03/15/2019
Scale: 1" = 20'-0"
Drawn By:

Sheet No:

A 8.0

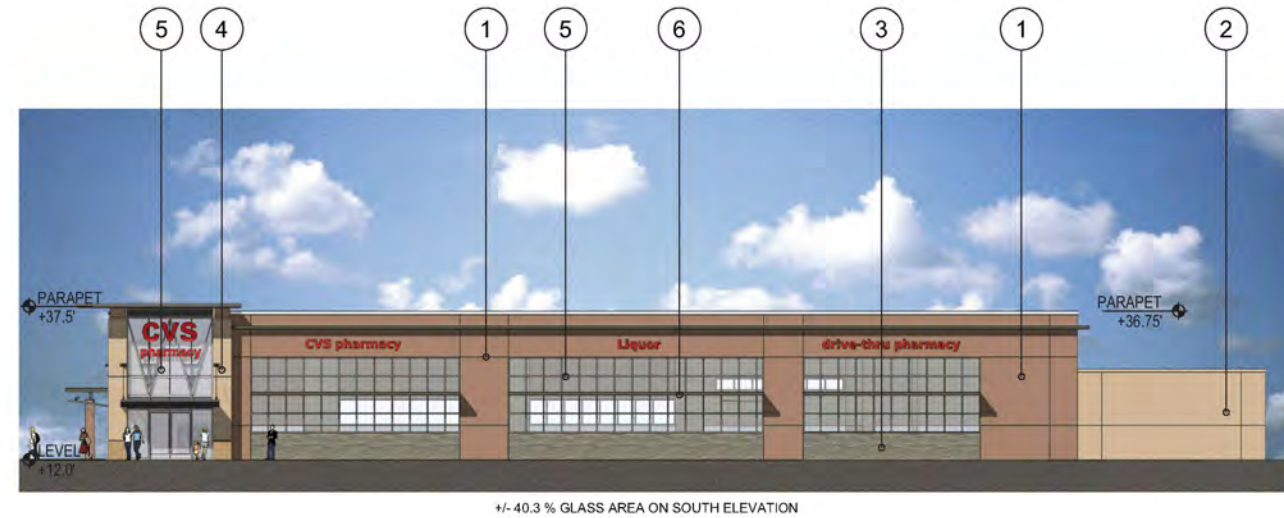




WEST ELEVATION

SCALE: 1/16" = 1' - 0"

1



SOUTH ELEVATION

SCALE: 1/16" = 1' - 0"

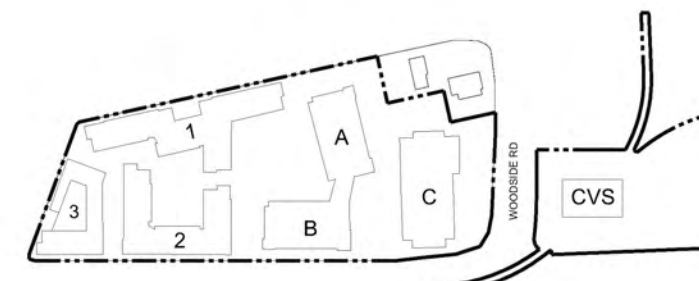
2

VIEW OF CVS FROM WOODSIDE RD

A



- ① STUCCO COLOR 1
- ② STUCCO COLOR 2
- ③ TILE 1
- ④ TILE 2
- ⑤ STORE FRONT
- ⑥ METAL AWNING



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Redwood City, CA

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Sheet Title:
BUILDING
PERSPECTIVES
(CVS BUILDING)

Job No. 14023
Date: 03/15/2019
Scale: 1/16"=1'-0"
Drawn By:

Sheet No:

A 8.1



: 304 12th Street, Suite 2A
: Oakland, California 94607
: (510) 451 - 2850

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PARTNERSHIP INC.**
Landscape Architects • Land Planners
181 Greenwich Street
San Francisco, CA 94111
T 415 433 4672
F 415 433 5003

1401 Broadway, Redwood City, CA

Cupertino, California


Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

L1.0



Scale: 1" = 50'





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: Urban Design

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: Oakland, California 94607
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San Francisco, CA 94111
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F 415 433 5003

Broadway and Woodside Master Plan
1401 Broadway, Redwood City, CA

The Sobrato Organization
10600 N De Anza Blvd. #200
Cupertino, California

Sheet Title:
PUBLIC OPEN
SPACE
CONCEPTUAL PLAN

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

L1.1



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Broadway and Woodside Master Plan

1401 Broadway, Redwood City, CA

The Sobrato Organization

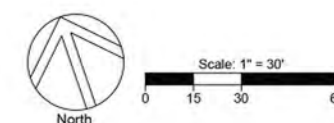
10600 N De Anza Blvd. #200
Cupertino, California

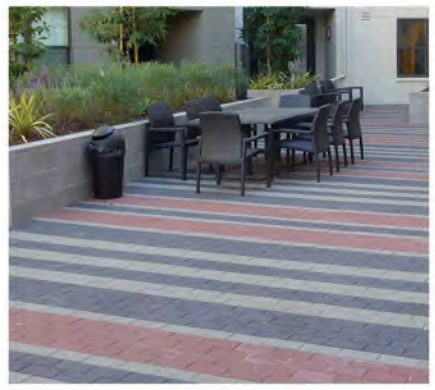
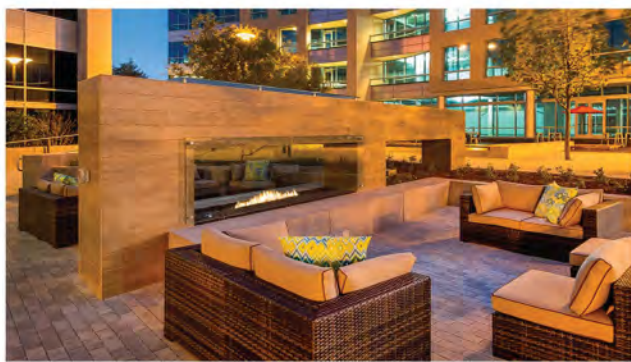
Sheet Title:
RESIDENTIAL
COURTYARD
CONCEPTUAL PLAN

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

L1.2





STUDIO
T SQUARE

: Architecture
: Planning
: Urban Design

: 304 12th Street, Suite 2A
: Oakland, California 94607
: (510) 451 - 2850

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THE GUZZARDO PARTNERSHIP INC.
Landscape Architects • Land Planners
181 Greenwich Street
San Francisco, CA 94111
T 415 433 4672
F 415 433 5003

Broadway and Woodside Master Plan
1401 Broadway, Redwood City, CA






The Sobrato Organization
10600 N De Anza Blvd. #200
Cupertino, California

Sheet Title:
CONCEPTUAL
LANDSCAPE
IMAGERY

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:
L2.0

OPEN SPACE SUMMARY

 RESIDENTIAL COURTYARD	41,110 sf	0.94 ac
 OFFICE AMENITY AREAS	12,500 sf	0.28 ac
 CHILDCARE AMENITY AREAS	4,100 sf	0.09 ac
 PUBLICLY ACCESSIBLE OPEN SPACE	92,150 sf	2.11 ac
 PRIVATE OPEN SPACE APARTMENT PATIOS AND BALCONIES (NOT SHOWN)	26,300 sf	0.60 ac
TOTAL OPEN SPACE	176,160 sf	4.04 ac

2,750 sf

4,100 sf

3,400 sf

71,500 sf

4,500 sf

1,700 sf

1,700 sf

8,250 sf

32,850 sf

2,900 sf

5,400 sf

10,800 sf



Scale: 1" = 50'

0 25 50 100



STUDIO
T SQUARE

: Architecture
: Planning
: Urban Design

: 304 12th Street, Suite 2A
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: (510) 451 - 2850

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Broadway and Woodside Master Plan
1401 Broadway, Redwood City, CA

The Sobrato Organization
10600 N De Anza Blvd. #200
Cupertino, California

Sheet Title:
OPEN SPACE
DIAGRAM

Job No. 14023
Date: 03/15/2019
Scale:
Drawn By:

Sheet No:

L3.0

PROPOSED	EXISTING

ABBREVIATIONS

PROPOSED	EXISTING
AD	AREA DRAIN
ARV	AIR RELEASE VALVE
ASR	AUTOMATIC SPRINKLER RISER
AVP	AIR VALVE POST
BFPD	BACKFLOW PREVENTION DEVICE
BW	BACK OF WALK
BOV	BLOWOFF VALVE
BLDG	BUILDING
BL	BUILDING LINE
CB	CATCH BASIN
CATVB	CABLE TELEVISION BOX
CTB	CALTRANS BOX
COTG	CLEANOUT TO GRADE
C	CONCRETE
DDCV	DOUBLE DETECTOR CHECK VALVE
DR	DOOR
DS	DOWN SPOUT
DIP	DUCTILE IRON PIPE
EB	ELECTRIC BOX
ETS	ELECTROLYSIS TEST STATION
ESMT	EASEMENT
EW	EDGE OF WALK
FB	FACE OF BERM
FC	FACE OF CURB
FW	FACE OF WALL
FT	FINISHED FLOOR
FL	FLOW LINE
FH	FIRE HYDRANT
FOM	FIBER OPTICS MARKER
GLM	GAS LINE MARKER
GM	GAS METER
GV	GAS VALVE
GB	GRADE BREAK
GA	GUY ANCHOR
HP	HIGH POINT
IE	INVERT ELEVATION
IB	IRRIGATION BOX
JP	JOINT POWER POLE
LT	LIGHT
LP	LOW POINT
LT	LIGHT
NIC	NOT IN CONTRACT
OF	OVERFLOW
OD	OVERFLOW DRAIN
PBMH	PAC BELL MANHOLE
PV	PAVEMENT
POC	POINT OF CONNECTION
PIV	POST INDICATOR VALVE
PP	POWER POLE
RL	RAINWATER LEADER
RVP	RELEASE VALVE POST
R	RIIDGE
RE	RRIM ELEVATION
RD	ROOF DRAIN
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
SMH	SPRINT MANHOLE
SM	SPRINT MARKER
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SDJB	STORM DRAIN JUNCTION BOX
SDMH	STORM DRAIN MANHOLE
SWL	SWALE
TB	TELEPHONE BOX
TMH	TELEPHONE MANHOLE
TSB	TRAFFIC SIGNAL BOX
TSP	TRAFFIC SIGNAL POLE
TB	TOP OF BERM
TC	TOP OF CURB
TW	TOP OF WALL
T	TRANSFORMER
TE	TRASH ENCLOSURE
WB	WATER BOX
WM	WATER METER
WV	WATER VALVE

VESTING TENTATIVE MAP

FOR

1401 BROADWAY AND BAY ROAD

REDWOOD CITY, CALIFORNIA

FOR

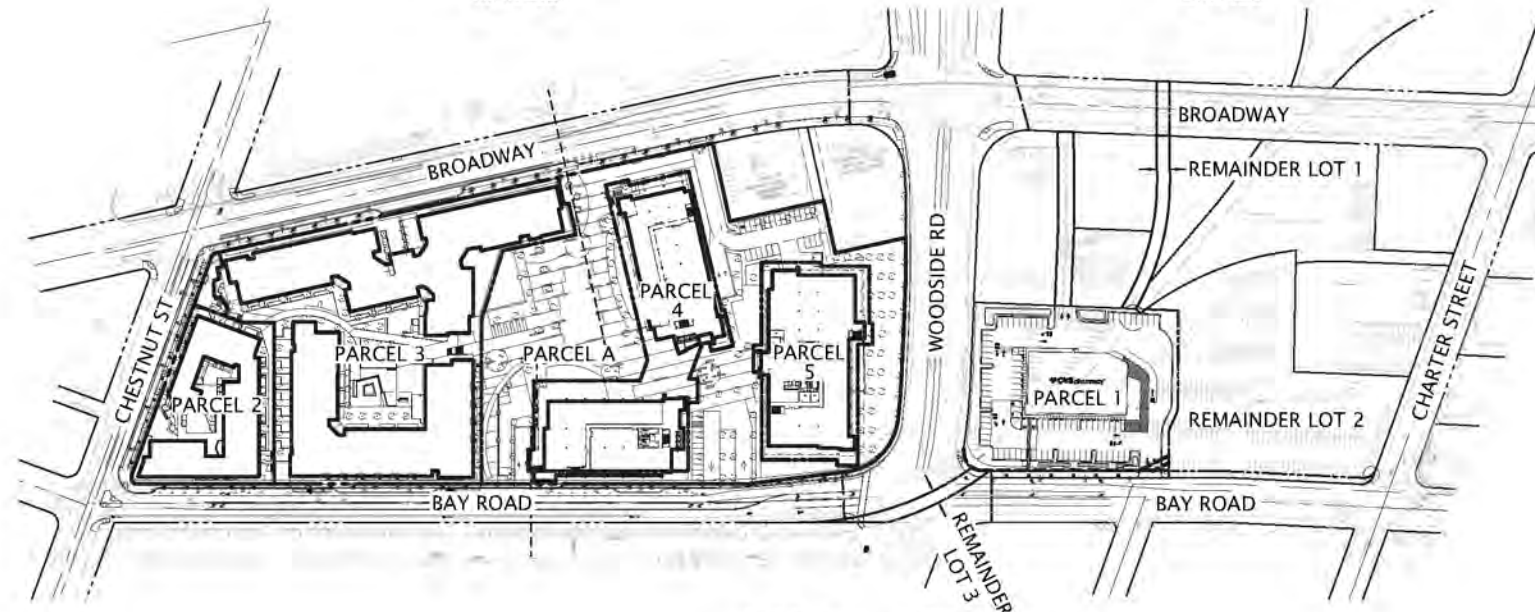
THE SOBRATO ORGANIZATION



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



SITE PLAN
1" = 150'

PROJECT SUMMARY

1. PROPERTY ADDRESSES:	1401 BROADWAY, 1155 BROADWAY, 2201 BAY ROAD
2. RECORD OWNERS:	SI XX, LLC & SI 14, LLC
3. DEVELOPER:	THE SOBRATO ORGANIZATION 10600 N. DE ANZA BOULEVARD, SUITE 200 CUPERTINO, CA 95014 (408) 446-0700 CONTACT: PETER TSAI, VICE PRESIDENT
4. ENGINEER:	KIER & WRIGHT CIVIL ENGINEERS & SURVEYORS, INC. 3350 SCOTT BOULEVARD, BUILDING 22 SANTA CLARA, CA 95054 CONTACT: NEKTARIOS MATHEOU (408) 727-6665
5. ARCHITECT: (RESIDENTIAL AND URBAN DESIGN)	STUDIO T-SQ, INC. 304 12TH STREET, SUITE 2A OAKLAND, CA 94607 (510) 451-2850 CONTACT: CHEK F. TANG AIA, NCARB, PRINCIPAL
6. ARCHITECT: (OFFICE DESIGN)	FORM 4 ARCHITECTURE 126 POST STREET, #3 SAN FRANCISCO, CA 94108 (415) 215-6601 CONTACT: JOHN MARX AIA, DESIGN PRINCIPAL
7. LANDSCAPE:	THE GUZZARDO PARTNERSHIP 181 GREENWICH STREET SAN FRANCISCO, CA 94111 (415) 433-4672 CONTACT: PAUL LETTIERI ASLA, PRINCIPAL
8. ASSESSOR'S PARCEL NOS.:	052-012-120, -130, -140, -150, -160, -170 054-022-070, -120, -160, -170 & 200
9. TOTAL AREA:	BROADWAY: 488,595 SQ. FT. (11.2± AC) BAY ROAD: 185,403 SQ. FT. (4.3± AC) (GROSS)
10. EXISTING ZONING:	BROADWAY: MUC-G8 - MIXED USE CORRIDOR; GATEWAY BROADWAY BAY ROAD: LIU-S - LIGHT INDUSTRIAL INCUBATOR DISTRICT, EMERGENCY SHELTER (COMBINING DISTRICT)
11. EXISTING LAND USE:	COMMERCIAL/RETAIL
12. PROPOSED ZONING:	MUC-G8 - MIXED USE CORRIDOR; GATEWAY BROADWAY
13. PROPOSED LAND USE:	BROADWAY: 520 APARTMENT UNITS 420,000 S.F. OFFICE SPACE 11,000 S.F. RETAIL 10,000 S.F. CHILDCARE BAY ROAD: 15,000 S.F. RETAIL
14. PROPOSED NUMBER OF LOTS:	6 + 3 REMAINDER LOTS
15. ALL DISTANCES ARE APPROXIMATE.	
16. NO NEW STREET NAMES PROPOSED.	
17. BENCHMARK:	REDWOOD CITY BENCHMARK 51: BROADWAY AT WOODSIDE EXPRESSWAY, BRASS DISK ON TOP OF CURB, NORTH SIDE OF INTERSECTION OF BROADWAY AND WOODSIDE EXPRESSWAY, ON BROADWAY, EAST SIDE OF STREET, 10' FROM TRAFFIC LIGHT ELEVATION: 10.62 (NAVD 88 DATUM)
18. BASIS OF BEARINGS:	THE BEARING OF NORTH 79°53'29" WEST TAKEN ON THE CENTERLINE OF BAY ROAD AS SHOWN ON THAT CERTAIN MAP ENTITLED "REDWOOD PLAZA SHOPPING CENTER SUBDIVISION" FILED FOR RECORD ON JULY 5, 1972 IN VOLUME 75 OF MAPS AT PAGES 44 & 45, SAN MATEO COUNTY RECORDS WAS TAKEN AS THE BASIS OF ALL BEARINGS SHOWN HEREON.
19. ADDITIONAL EASEMENTS MAY BE NECESSARY, ANY ADDITIONAL EASEMENT REQUIREMENTS WILL BE DETERMINED AS THE PROJECT EVOLVES.	
20. UTILITIES:	WATER SUPPLY: CITY OF REDWOOD CITY FIRE PROTECTION: REDWOOD CITY FIRE DEPARTMENT SANITARY SEWER: CITY OF REDWOOD CITY STORM DRAIN: CITY OF REDWOOD CITY GAS & ELECTRIC: PACIFIC GAS & ELECTRIC TELEPHONE: AT&T CABLE TELEVISION: COMCAST

SHEET INDEX

SHEET	DESCRIPTION
CIVIL	
TM-1	COVER SHEET
TM-2.1	TOPOGRAPHIC SURVEY PLAN - BROADWAY
TM-2.2	TOPOGRAPHIC SURVEY PLAN - BAY ROAD
TM-3.1	PROPOSED CONDITIONS - BROADWAY
TM-3.2	PARCEL ELEVATION PLAN - BROADWAY
TM-3.3	PHASING PLAN - BROADWAY
TM-3.4	PROPOSED CONDITIONS - BAY ROAD
TM-4.1	PRELIMINARY GRADING PLAN - BROADWAY
TM-4.2	PRELIMINARY GRADING PLAN - BAY ROAD
TM-4.3	PRELIMINARY GRADING PLAN - BROADWAY
TM-4.4	PRELIMINARY GRADING PLAN - BAY ROAD
TM-4.5	PRELIMINARY GRADING PLAN - BROADWAY
TM-4.6	PRELIMINARY GRADING PLAN - BAY ROAD
TM-5.1	PRELIMINARY UTILITY PLAN - BROADWAY
TM-5.2	PRELIMINARY UTILITY PLAN - BAY ROAD
TM-6.1	STORM WATER CONTROL PLAN - BROADWAY
TM-6.2	STORM WATER DETAILS & CALCULATIONS - BROADWAY
TM-6.3	STORM WATER CALCULATIONS - BAY ROAD
TM-6.4	STORM WATER CONTROL PLAN - BAY ROAD
TM-6.5	STORM WATER DETAILS - BAY ROAD
TM-7.1	FIRE ACCESS PLAN - BROADWAY
TM-7.2	FIRE ACCESS PLAN - BAY ROAD

ENGINEER'S STATEMENT

THIS TENTATIVE MAP HAS BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

NEKTARIOS MATHEOU
P.E. 71236 EXP. 6/30/2019

08/17/18
DATE



KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
3350 Scott Boulevard, Building 22
Santa Clara, California 95054
(408) 727-6665
Fax (408) 727-5641

Broadway Plaza
Redwood City, CA

The Sobrato Organization &
MidPen Housing Corporation

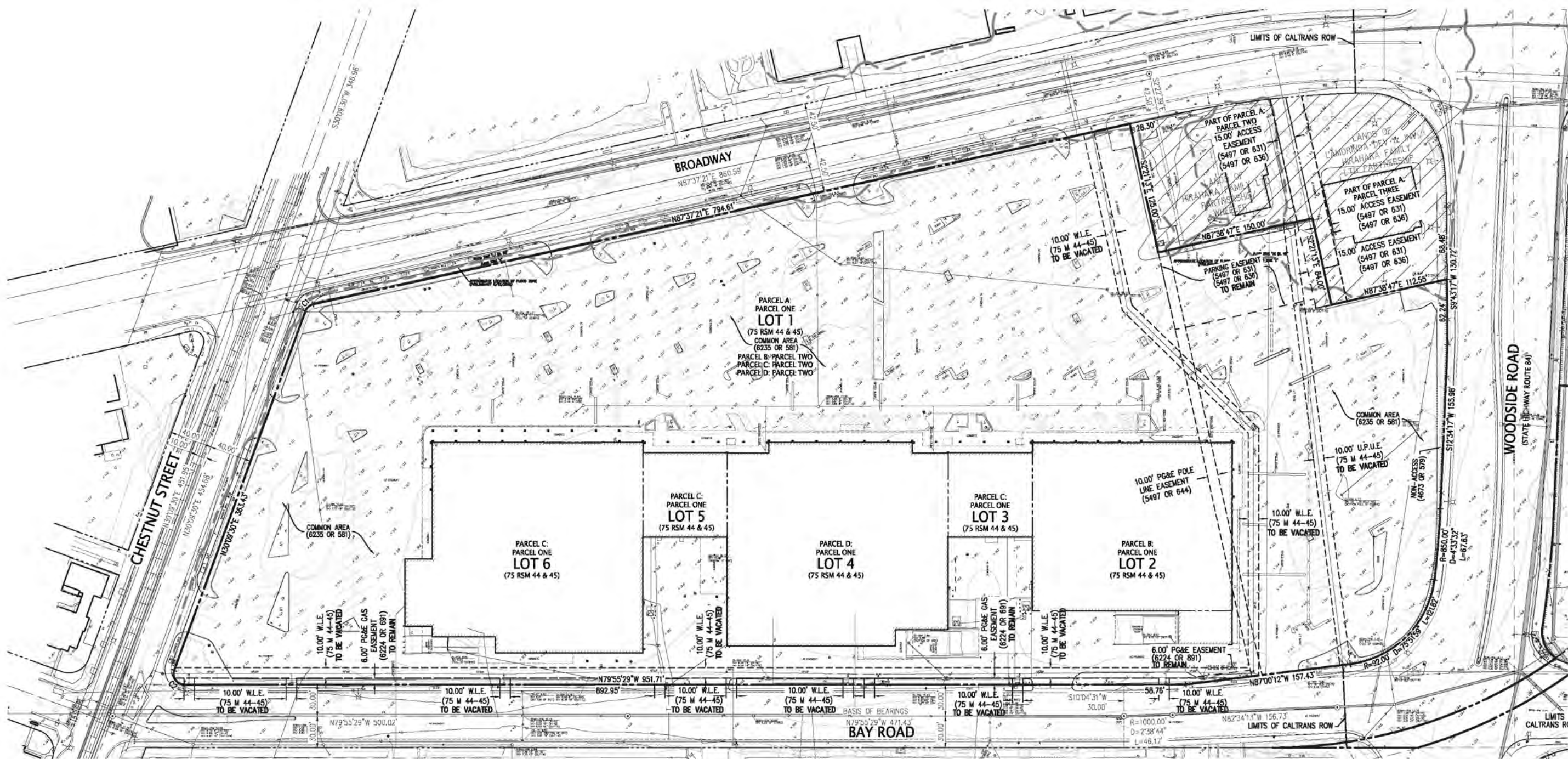
Sheet Title:

COVER SHEET

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 1

TM-1



NOTES

1. THIS TENTATIVE MAP WAS PREPARED FROM INFORMATION FURNISHED IN THE PRELIMINARY TITLE REPORT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, DATED MARCH 14, 2014, AMENDED APRIL 16, 2014, ORDER NO. NCS-649036-SC. NO LIABILITY IS ASSUMED FOR MATTERS OF RECORD NOT STATED IN SAID PRELIMINARY TITLE REPORT THAT MAY AFFECT THE BOUNDARY LINES, EXCEPTIONS, OR EASEMENTS AFFECTING THE PROPERTY.
2. FLOOD ZONE NOTE:
THIS SITE IS IN FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. PER FLOOD INSURANCE RATE MAP COMMUNITY NO. 060352 0302 E DATED OCTOBER 16, 2012.
FUTURE FLOOD ZONE:
THIS SITE IS PARTIALLY IN FLOOD ZONE "X", AREAS OF 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS LESS THAN ONE FOOT WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE; FLOOD ZONE "X", AREAS OF MINIMAL FLOOD HAZARD; AND FLOOD ZONE AE (EL 10), SPECIAL FLOOD HAZARD AREA WITH BASE FLOOD ELEVATION (EL 10). PER PRELIMINARY FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 060325 0302 F DATED 8/13/2015.
3. BENCHMARK:
REDWOOD CITY BENCHMARK 51; BROADWAY AT WOODSIDE EXPRESSWAY, BRASS DISK ON TOP OF CURB, NORTH SIDE OF INTERSECTION OF BROADWAY AND WOODSIDE EXPRESSWAY, ON BROADWAY, EAST SIDE OF STREET, 10' FROM TRAFFIC LIGHT ELEVATION: 10.62 (NAVD 88 DATUM)
4. BASIS OF BEARINGS:
THE BEARING OF NORTH 79°55'29" WEST TAKEN ON THE CENTERLINE OF BAY ROAD AS SHOWN ON THAT CERTAIN MAP ENTITLED "REDWOOD PLAZA SHOPPING CENTER SUBDIVISION" FILED FOR RECORD ON JULY 5, 1972 IN VOLUME 75 OF MAPS AT PAGES 44 & 45, SAN MATEO COUNTY RECORDS WAS TAKEN AS THE BASIS OF ALL BEARINGS SHOWN HEREON.
5. EASEMENT NOTE:
10' PG&E EASEMENT RECORDED OCTOBER 24, 1972 AS INSTRUMENT NO. 70592AF IN BOOK 6257, PAGE 81 OF OFFICIAL RECORDS (LOCATION CANNOT BE DETERMINED.)
6. CORNER RECORD NOTE:
THE DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FILING OF PRE-CONSTRUCTION AND POST-CONSTRUCTION CORNER RECORDS FOR ANY MONUMENTS OR PROPERTY CORNERS SHOWN HEREON THAT MAY BE DESTROYED DURING IMPROVEMENTS TO THE SUBJECT PROPERTY AS DEFINED IN SECTION 8771(B) OF THE PROFESSIONAL LAND SURVEYORS ACT.

ABBREVIATIONS

OR
RSM
S.W.E.
U.P.U.E.
W.L.E.

OFFICIAL RECORDS
RECORD SUBDIVISION MAP
SIDEWALK EASEMENT
UNDERGROUND PUBLIC UTILITY EASEMENT
WATER LINE EASEMENT

CURVE TABLE

CURVE #	RADIUS	DELTA	LENGTH
C1	10.00'	57°27'51"	10.03'
C2	10.00'	110°04'59"	19.21'



0 25 50 100 150
Scale 1" = 50 ft



NOTES

1. THIS TENTATIVE MAP WAS PREPARED FROM INFORMATION FURNISHED IN THE PRELIMINARY TITLE REPORTS PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, DATED SEPTEMBER 23, 2015, AMENDED NOVEMBER 11, 2015, ORDER NO. NCS-753171-SC, DATED DECEMBER 10, 2015, AMENDED 11/13/2016, ORDER NO. NCS-558617-SC AND COMMITMENT FOR TITLE INSURANCE PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, DATED SEPTEMBER 17, 2015, ORDER NO. 991-23071129-SLO. NO LIABILITY IS ASSUMED FOR MATTERS OF RECORD NOT STATED IN SAID PRELIMINARY TITLE REPORT THAT MAY AFFECT THE BOUNDARY LINES, EXCEPTIONS, OR EASEMENTS AFFECTING THE PROPERTY.
2. FLOOD ZONE NOTE:
THIS SITE IS IN FLOOD ZONE "X", AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS OF PROTECTED LEVEES FROM 1% ANNUAL CHANCE FLOOD. PER FLOOD INSURANCE RATE MAP COMMUNITY NO. 060352 0302 E DATED OCTOBER 16, 2012.
3. BENCHMARK:
REDWOOD CITY BENCHMARK 51; BROADWAY AT WOODSIDE EXPRESSWAY, BRASS DISK ON TOP OF CURB, NORTH SIDE OF INTERSECTION OF BROADWAY AND WOODSIDE EXPRESSWAY, ON BROADWAY, EAST SIDE OF STREET, 10' FROM TRAFFIC LIGHT
ELEVATION: 10.62 (NAVD 88 DATUM)
4. BASIS OF BEARINGS:
THE BEARING OF NORTH 79°55'29" WEST TAKEN ON THE CENTERLINE OF BAY ROAD AS SHOWN ON THAT CERTAIN MAP ENTITLED "REDWOOD PLAZA SHOPPING CENTER SUBDIVISION" FILED FOR RECORD ON JULY 5, 1972 IN VOLUME 75 OF MAPS AT PAGES 44 & 45, SAN MATEO COUNTY RECORDS WAS TAKEN AS THE BASIS OF ALL BEARINGS SHOWN HEREON.
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CURVE TABLE			
CURVE #	RADIUS	DELTA	LENGTH
C3	372.24'	2°53'12"	18.75'
C4	392.24'	4°26'23"	30.39'
C5	487.68'	3°38'03"	30.93'
C6	539.18'	5°44'00"	53.95'
C7	559.18'	5°44'00"	55.95'
C8	539.18'	5°44'00"	53.95'
C9	467.68'	8°43'59"	71.28'
C10	487.68'	6°25'39"	54.71'
C11	30.00'	98°58'05"	51.82'
C12	30.00'	64°48'30"	33.93'
C13	30.00'	34°08'35"	17.89'
C14	487.68'	0°04'59"	0.71'
C15	20.00'	72°56'30"	25.46'
C16	20.00'	72°56'30"	25.46'

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	S77°36'46"E	20.02'
L2	S39°31'06"E	9.71'
L3	N44°44'54"E	27.13'
L4	N44°44'54"E	27.13'
L5	S44°44'54"W	26.78'
L6	S44°44'54"W	0.35'
L7	S39°31'06"E	20.00'
L8	S39°31'06"E	5.72'
L9	S39°31'06"E	14.28'
L10	N50°28'54"E	30.00'
L11	N56°12'54"E	84.28'
L12	S79°55'29"E	9.92'
L13	S79°55'29"E	3.58'
L14	S10°04'31"W	10.43'
L15	S25°03'07"E	487.68'
L16	S44°14'06"W	30.00'
L17	S27°16'28"E	487.68'
L18	S27°21'27"E	487.68'
L19	S10°04'31"W	30.00'
L20	N10°04'31"E	10.00'
L21	S77°36'46"E	27.18'
L22	S10°04'31"W	30.00'



0 20 40 80 120
Scale 1" = 40'

BASIS OF BEARINGS
N79°55'29"W 471.43'
BAY ROAD

MATCH LINE
SEE BELOW



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Fax (408) 727 5641

Broadway Plaza
Redwood City, CA

The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
TOPOGRAPHIC
SURVEY PLAN -
BAY ROAD

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 3

TM-2.2



STUDIO
T SQUARE



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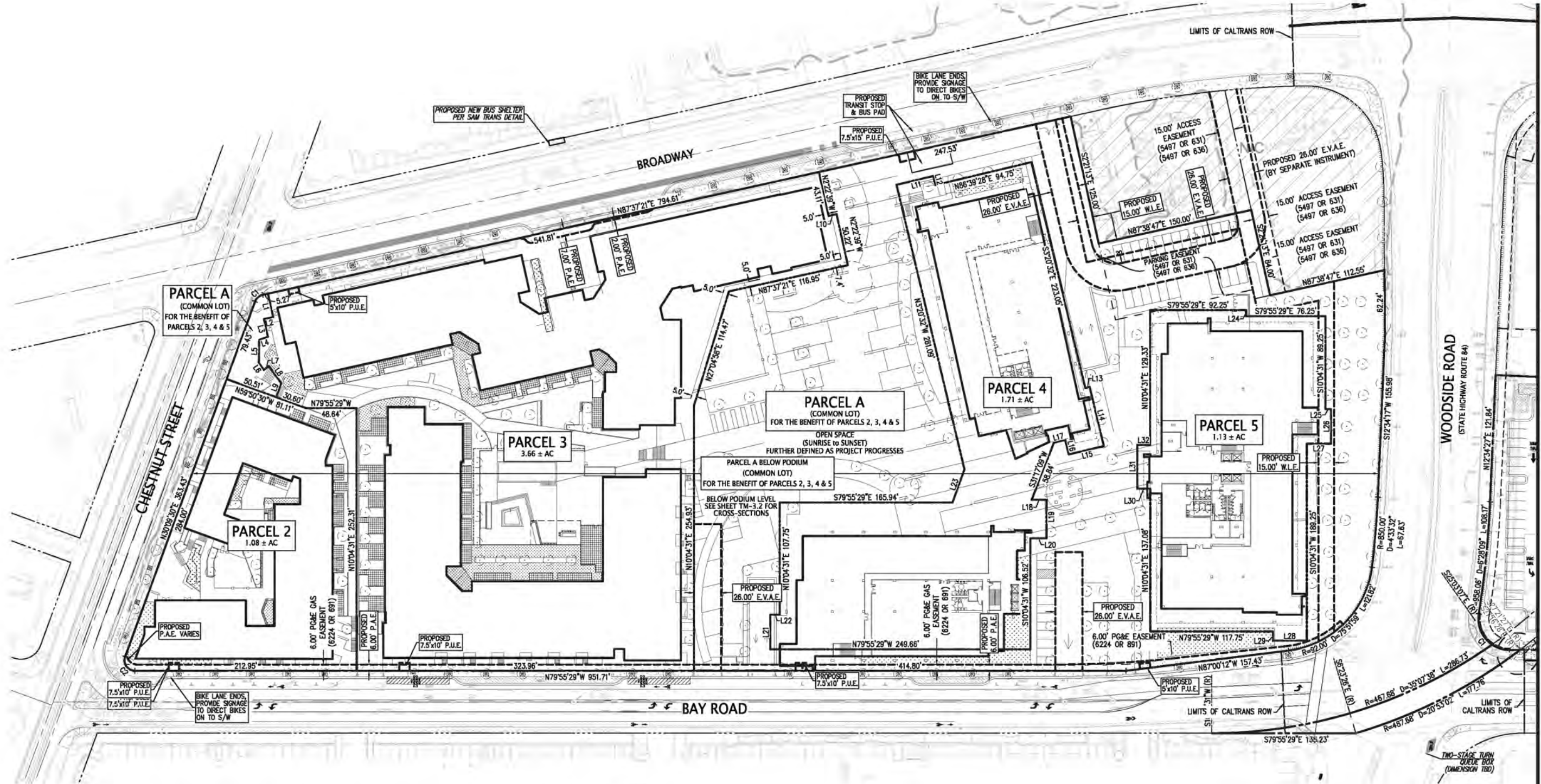
Sheet Title:

PROPOSED
CONDITIONS –
BROADWAY

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 4

TM-3.1



(FOR THIS SHEET ONLY)

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	N2°22'39\"W	23.08'
L2	N87°37'21\"E	9.00'
L3	N2°22'39\"W	17.44'
L4	N80°42'33\"E	8.84'
L5	S11°11'49\"W	22.00'
L6	S24°43'34\"E	8.23'
L7	S65°16'26\"W	6.13'
L8	S25°53'09\"E	20.12'
L9	S30°18'46\"W	14.32'
L10	S87°37'21\"W	7.80'
L11	N86°39'28\"E	36.25'
L12	S3°20'32\"E	8.90'
L13	N86°39'28\"E	4.38'

LINE TABLE		
LINE #	DIRECTION	LENGTH
L14	S3°20'32\"E	58.35'
L15	S86°39'28\"W	34.63'
L16	N3°20'32\"W	14.30'
L17	S86°39'28\"W	11.24'
L18	N79°55'29\"W	14.16'
L19	S10°04'31\"W	37.12'
L20	N79°55'29\"W	15.43'
L21	N10°04'31\"E	33.28'
L22	S79°55'29\"E	8.92'
L23	N29°56'30\"E	33.77'
L24	N10°04'31\"E	5.83'
L25	S79°55'29\"E	5.33'
L26	S10°04'31\"W	33.25'

LINE TABLE		
LINE #	DIRECTION	LENGTH
L27	N79°55'29\"W	23.25'
L28	N79°55'29\"W	32.58'
L29	N10°04'31\"E	8.92'
L30	N79°55'29\"W	12.58'
L31	N10°04'31\"E	42.25'
L32	S79°55'29\"E	12.33'

(FOR THIS SHEET ONLY)

CURVE TABLE			
CURVE #	RADIUS	DELTA	LENGTH
C1	10.00'	57°27'51\"	10.03'
C2	10.00'	110°04'59\"	19.21'

ABBREVIATIONS

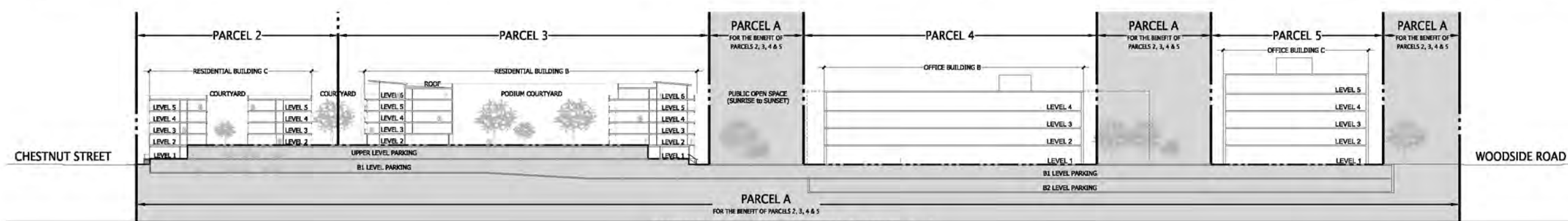
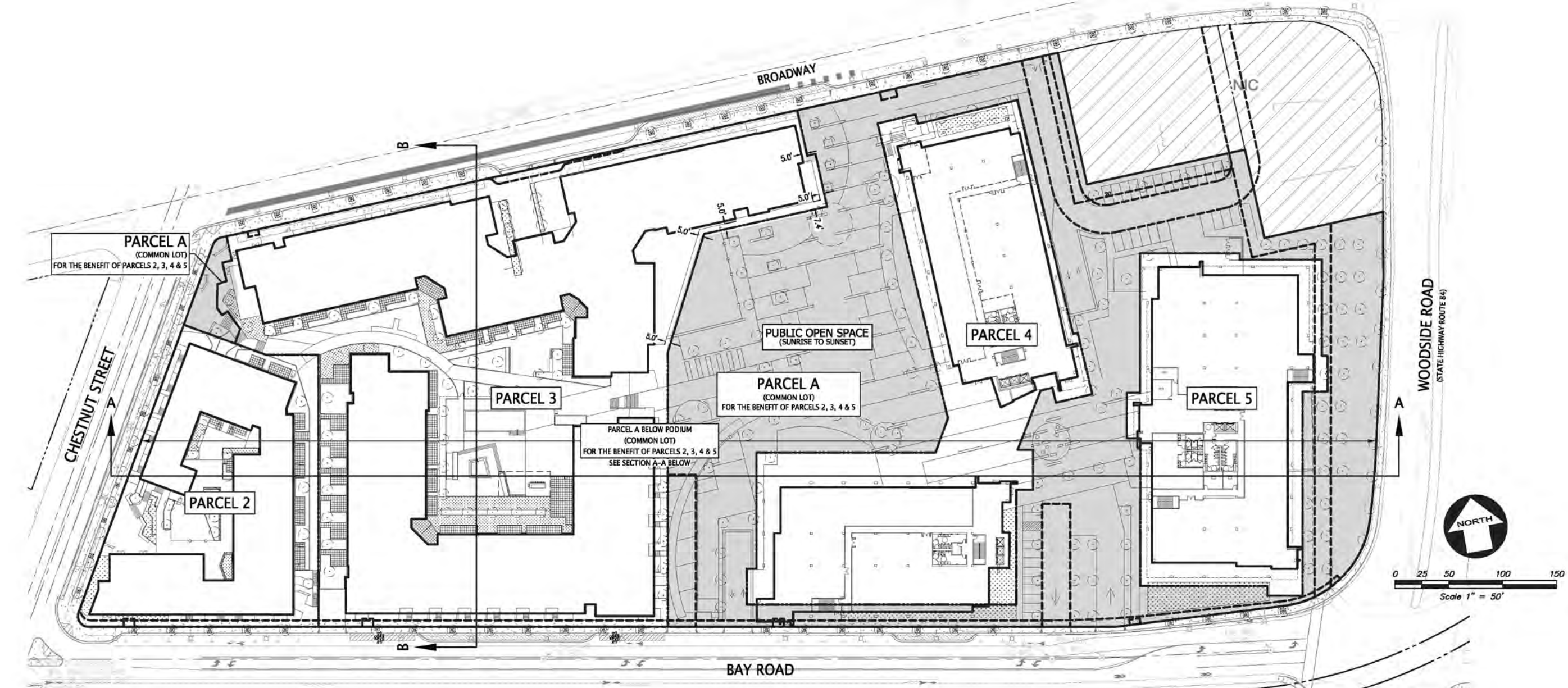
E.V.A.E. EMERGENCY VEHICLE ACCESS EASEMENT
W.L.E. WATER LINE EASEMENT
P.A.E. PUBLIC ACCESS EASEMENT
P.U.E. PUBLIC UTILITY EASEMENT

NOTE

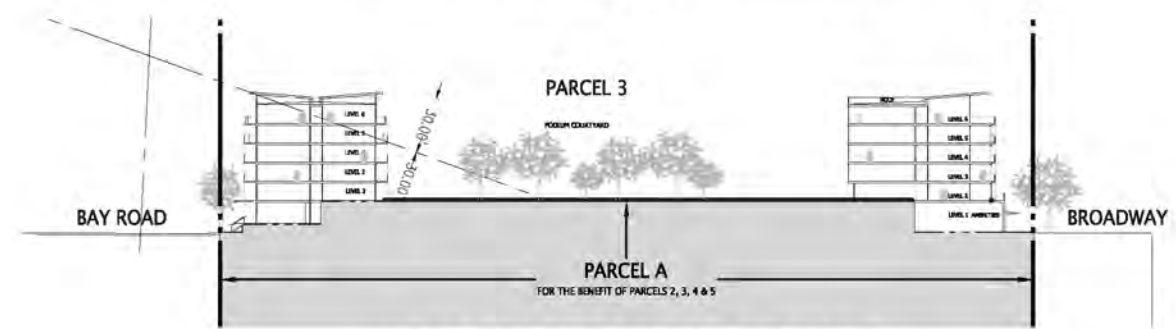
APPLICABLE TO ALL PARCELS:
DEVELOPMENT ON PARCELS A AND PARCELS 2-5 MUST BE CONSISTENT WITH THE DEVELOPMENT STANDARDS CONTAINED IN THE PLANNED DEVELOPMENT (PD) PERMIT APPROVED BY THE CITY OF REDWOOD CITY ON 2018, AS SUCH PERMIT MAY BE AMENDED. THE REQUIREMENT THAT DEVELOPMENT BE CONSISTENT WITH THE PD PERMIT, AS IT MAY BE AMENDED, SHALL BE A COVENANT RUNNING WITH THE LAND AND SHALL BIND FUTURE OWNERS OF THESE PARCELS.



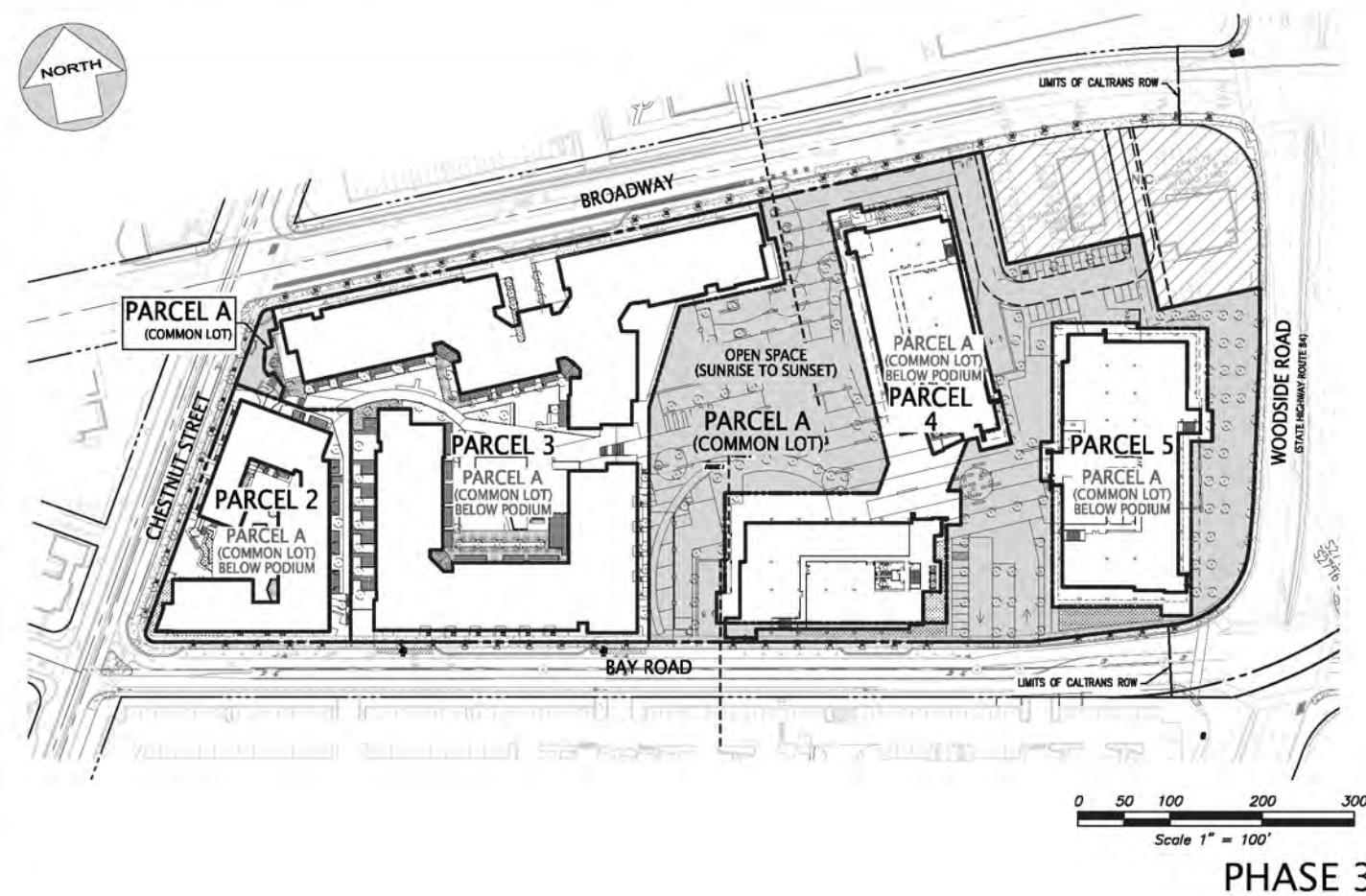
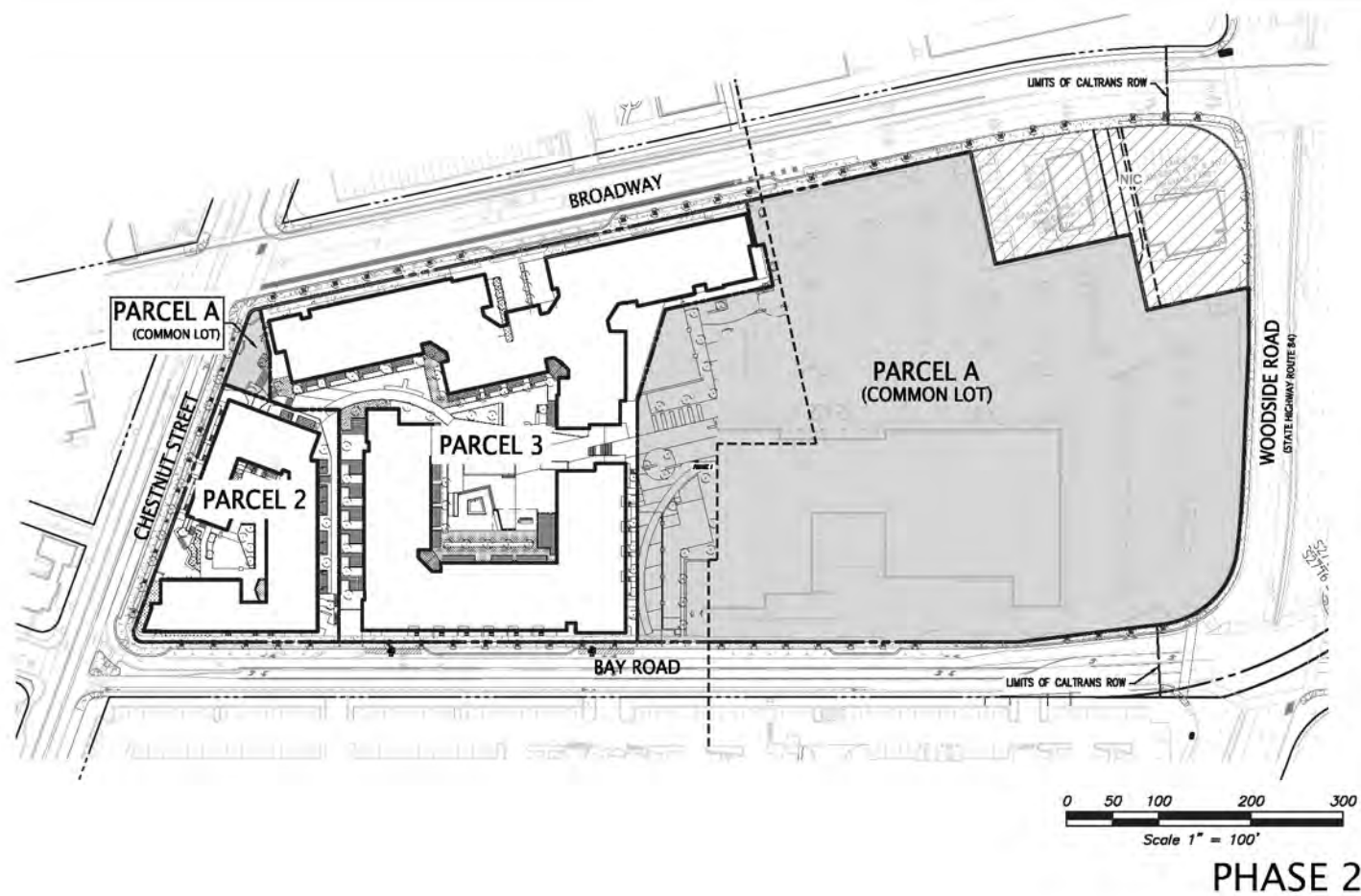
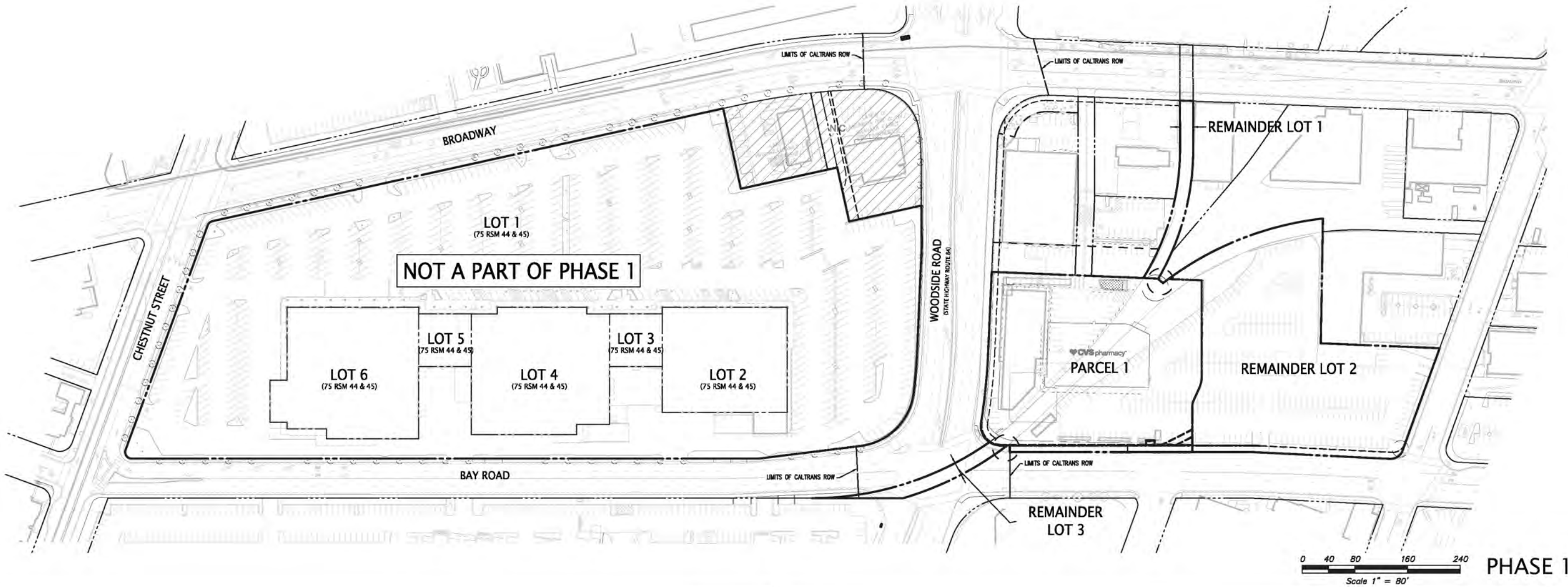
0 25 50 100 150
Scale 1" = 50 ft



TYPICAL CROSS SECTION ALONG A-A
NOT TO SCALE



TYPICAL CROSS SECTION ALONG B-B
NOT TO SCALE



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Redwood City, CA

The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
**PARCEL MAP
PHASING PLAN -
BROADWAY**

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 6

TM-3.3

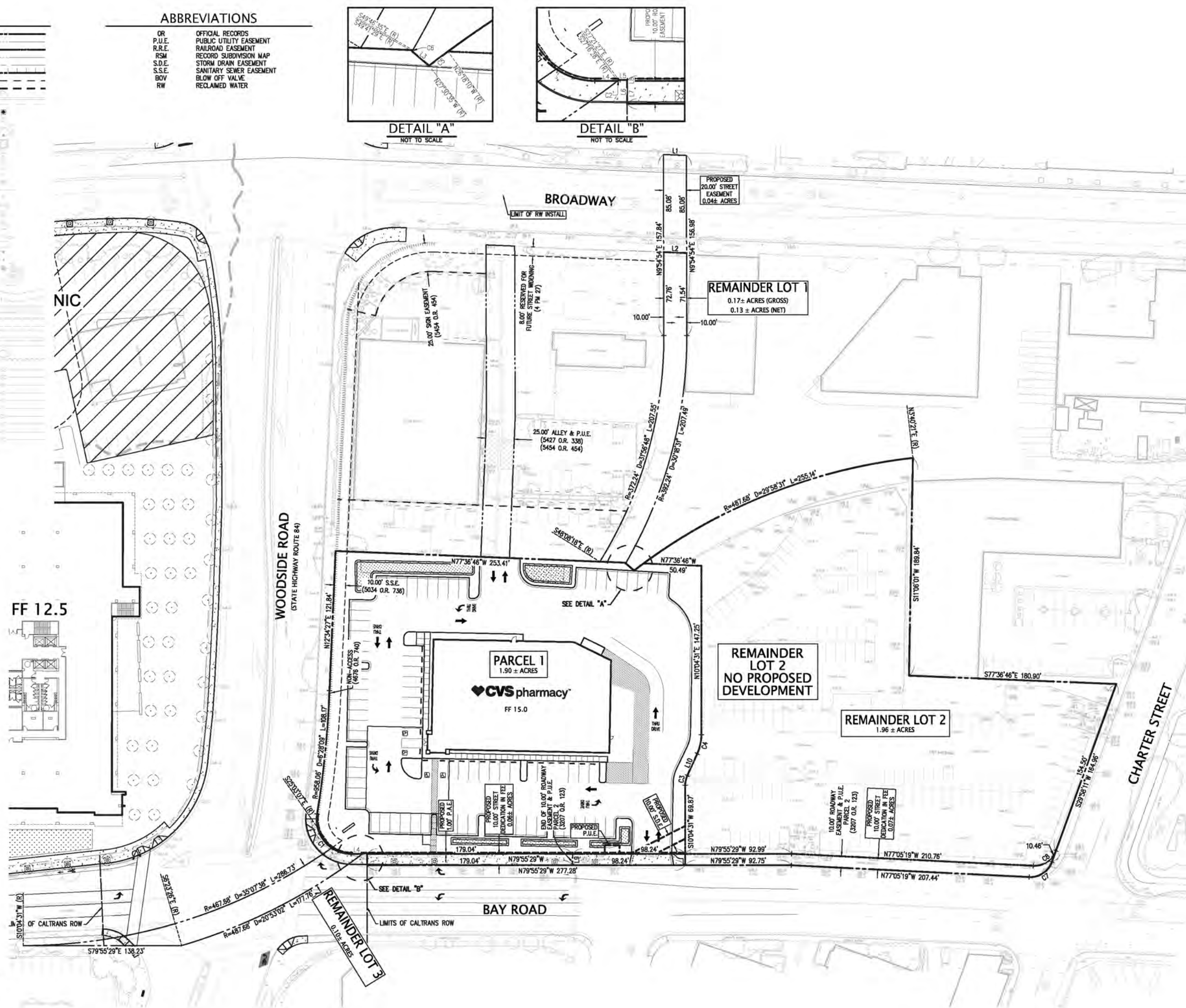
PROPERTY LINE
ADJACENT PROPERTY LINE
PROPOSED PROPERTY LINE
PROPERTY LINE TO BE REMOVED
CENTERLINE
NON-ACCESS
EASEMENT
PROPOSED EASEMENT
BUILDING LINE WITH DOOR
BUILDING OVERHANG
FOUND MONUMENT AS NOTED
LIGHT
STREET LIGHT
TRAFFIC SIGNAL ARM / POST
TRANSFORMER
FIRE HYDRANT
STORM DRAIN MANHOLE
MANHOLE
CLEAN OUT
GAS METER
UTILITY POLE W/ GUY WIRE
VALVE
CATCH BASIN / DROP INLET
WATER METER
FIRE DEPARTMENT CONNECTION
BACK FLOW PREVENTER
POST INDICATOR VALVE
UTILITY BOX (SIZE VARIES)
SIGN
BOLLARD
TREE W/ SIZE & ELEVATION
SPOT ELEVATION
AERIAL SPOT ELEVATION
CONTOUR
INDEX CONTOUR
CURB
CURB & GUTTER
CONCRETE
FENCE
RETAINING WALL
EDGE OF PAVEMENT
SINGLE TREE
TREES AND BRUSH
SANITARY SEWER
STORM DRAIN
WATER
GAS
UNDERGROUND ELECTRIC
TELEPHONE
OVERHEAD
JOINT TRENCH
LIGHTING CONDUIT
FIBER OPTIC CABLE

OR	OFFICIAL RECORDS
P.U.E.	PUBLIC UTILITY EASEMENT
R.R.E.	RAILROAD EASEMENT
RSM	RECORD SUBDIVISION MAP
S.D.E.	STORM DRAIN EASEMENT
S.S.E.	SANITARY SEWER EASEMENT
BOV	BLOW OFF VALVE
RW	RECLAIMED WATER



CURVE #	RADIUS	DELTA	LENGTH
C1	30.00'	98°58'05"	51.82'
C2	487.68'	0°04'59"	0.71'
C3	20.00'	24°30'02"	8.55'
C4	40.00'	24°30'02"	17.10'
C5	487.68'	112°25'	10.27'
C6	392.24'	0°05'06"	0.58'
C7	20.00'	72°56'30"	25.46'
C8	20.00'	72°56'30"	25.46'

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	S77°36'46"E	20.02'
L2	S77°36'46"E	20.02'
L3	S39°31'06"E	9.71'
L4	S79°55'29"E	9.92'
L5	S79°55'29"E	3.58'
L6	N11°12'23"E	10.43'
L7	S10°04'31"W	10.00'
L8	S10°04'31"W	10.00'
L9	N10°04'31"E	0.43'
L10	N34°34'33"E	20.98'

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Sheet Title:

PROPOSED
CONDITIONS –
BAY ROAD

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 7

TM-3.4



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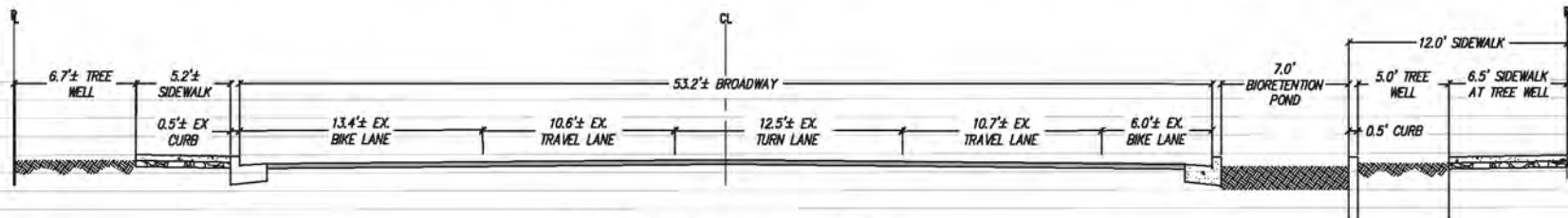
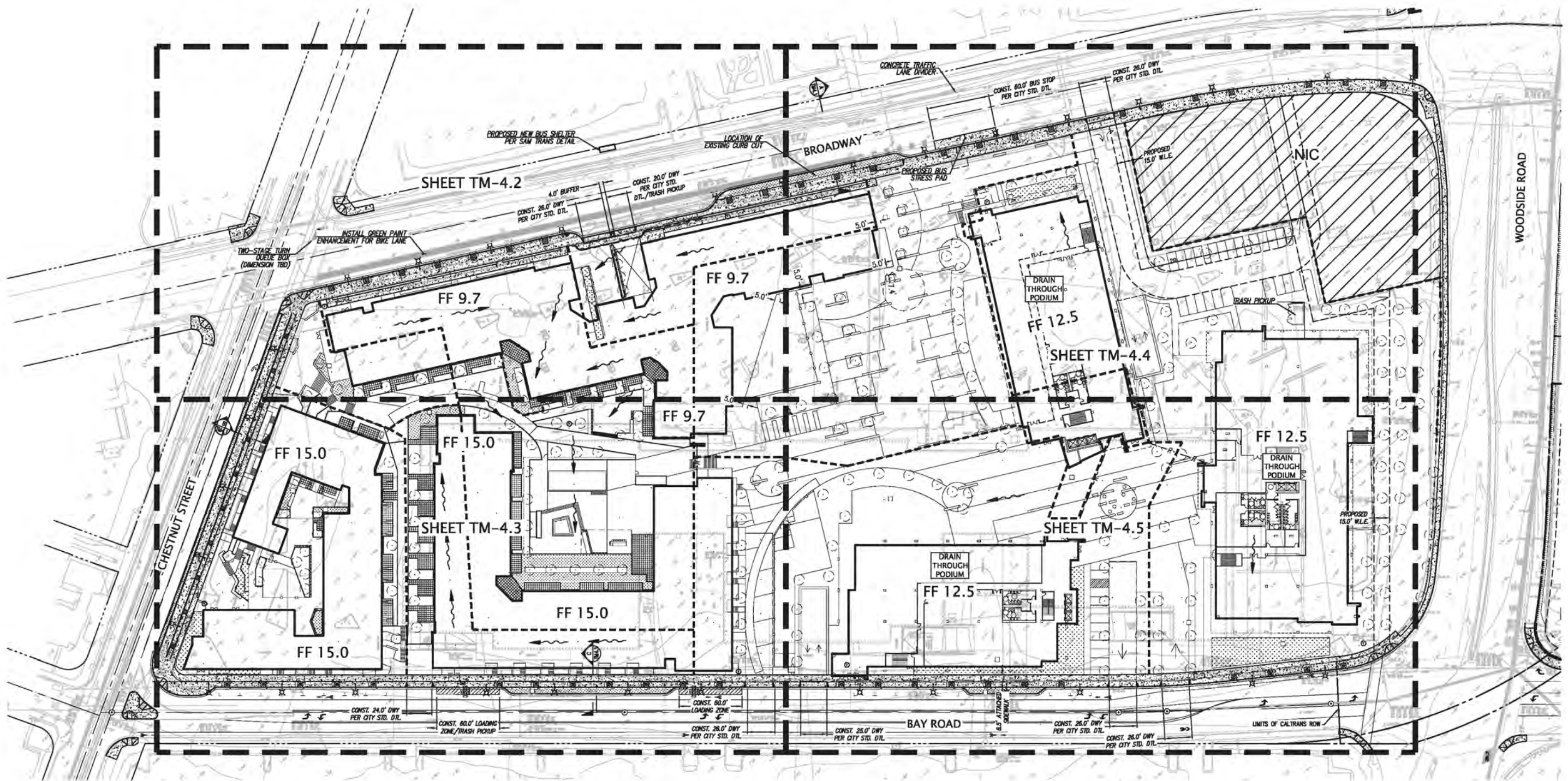
Broadway Plaza
Redwood City, CA

Sheet Title:
**PRELIMINARY
GRADING PLAN -
BROADWAY**

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

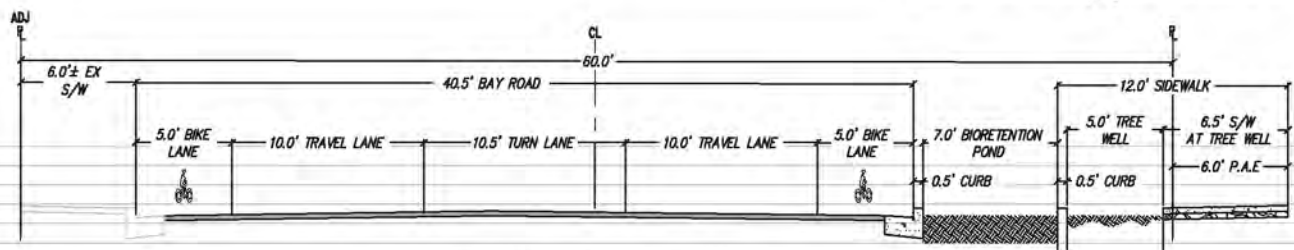
Sheet No: 8

TM-4.1



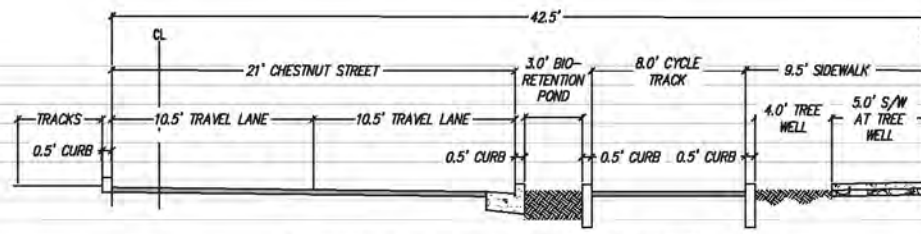
BROADWAY (SECTION A)

1" = 5'



BAY ROAD (SECTION C)

1" = 5'



CHESTNUT STREET (SECTION B)

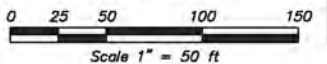
1" = 5'

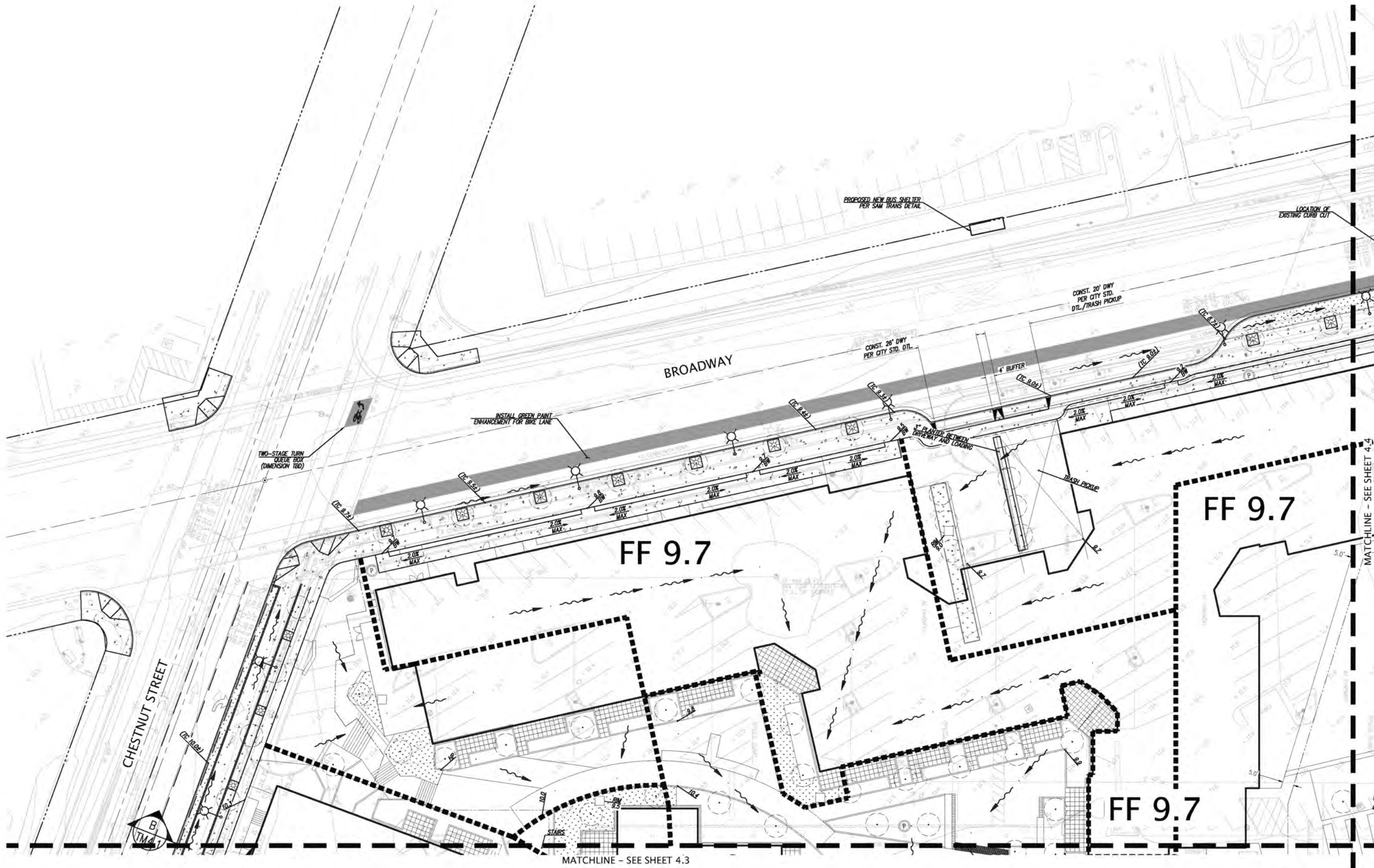
NOTES

1. ALL UNUSED UTILITY LATERALS SHALL BE ABANDONED IN PLACE PER CITY STANDARDS.
2. WOODSIDE ROAD OFFSITE DESIGN WILL CONFORM WITH 101/84 INTERCHANGE DESIGN.

PARKING

1. 15 STALLS PROPOSED ALONG BAY ROAD.





Broadway Plaza
Redwood City, CA

**The Sobrato Organization &
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Sheet Title:
**PRELIMINARY
GRADING PLAN -
BROADWAY**

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 9

TM-4.2



0 10 20 40 60
Scale 1" = 20 ft



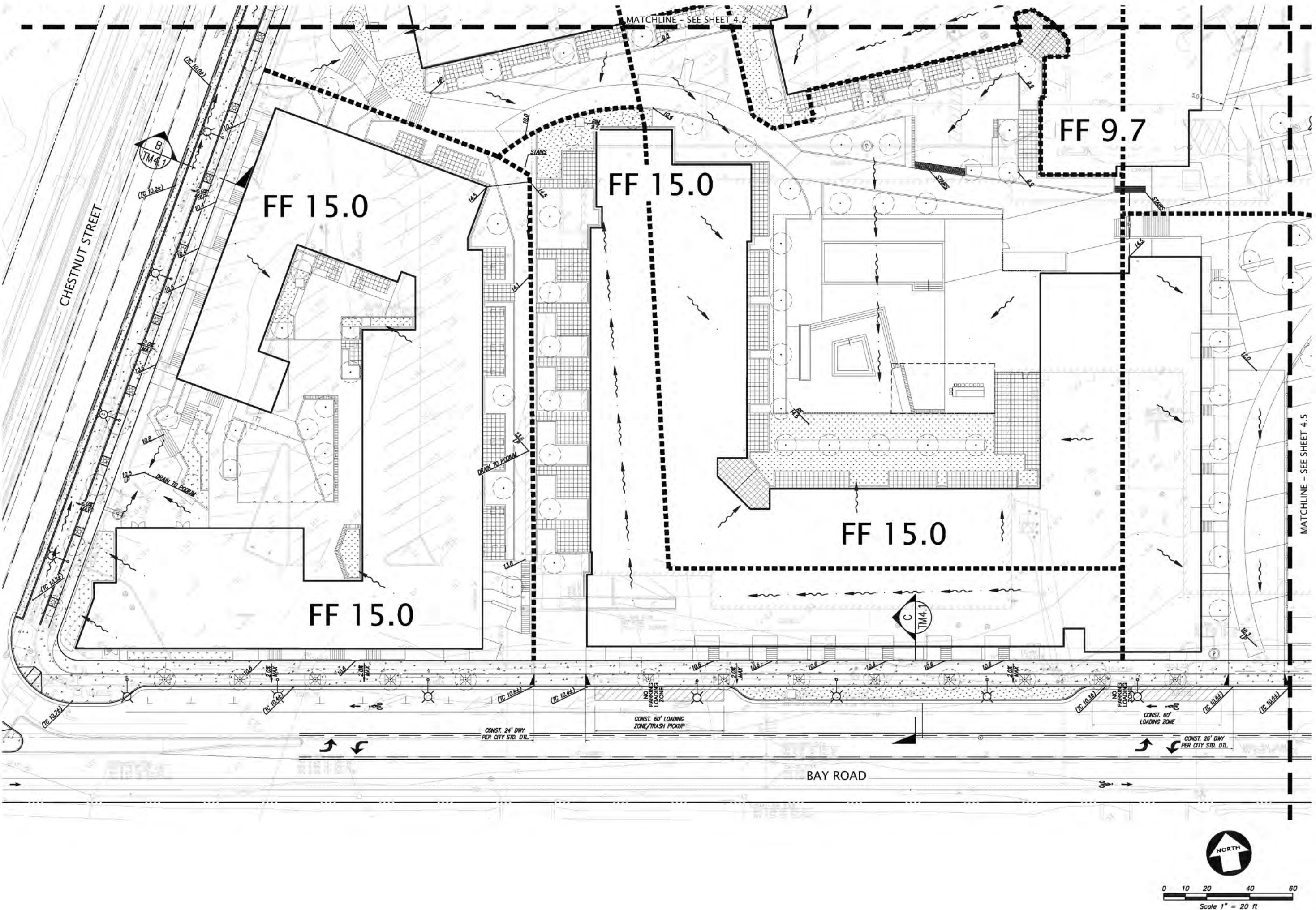
REDWOOD CITY, CA

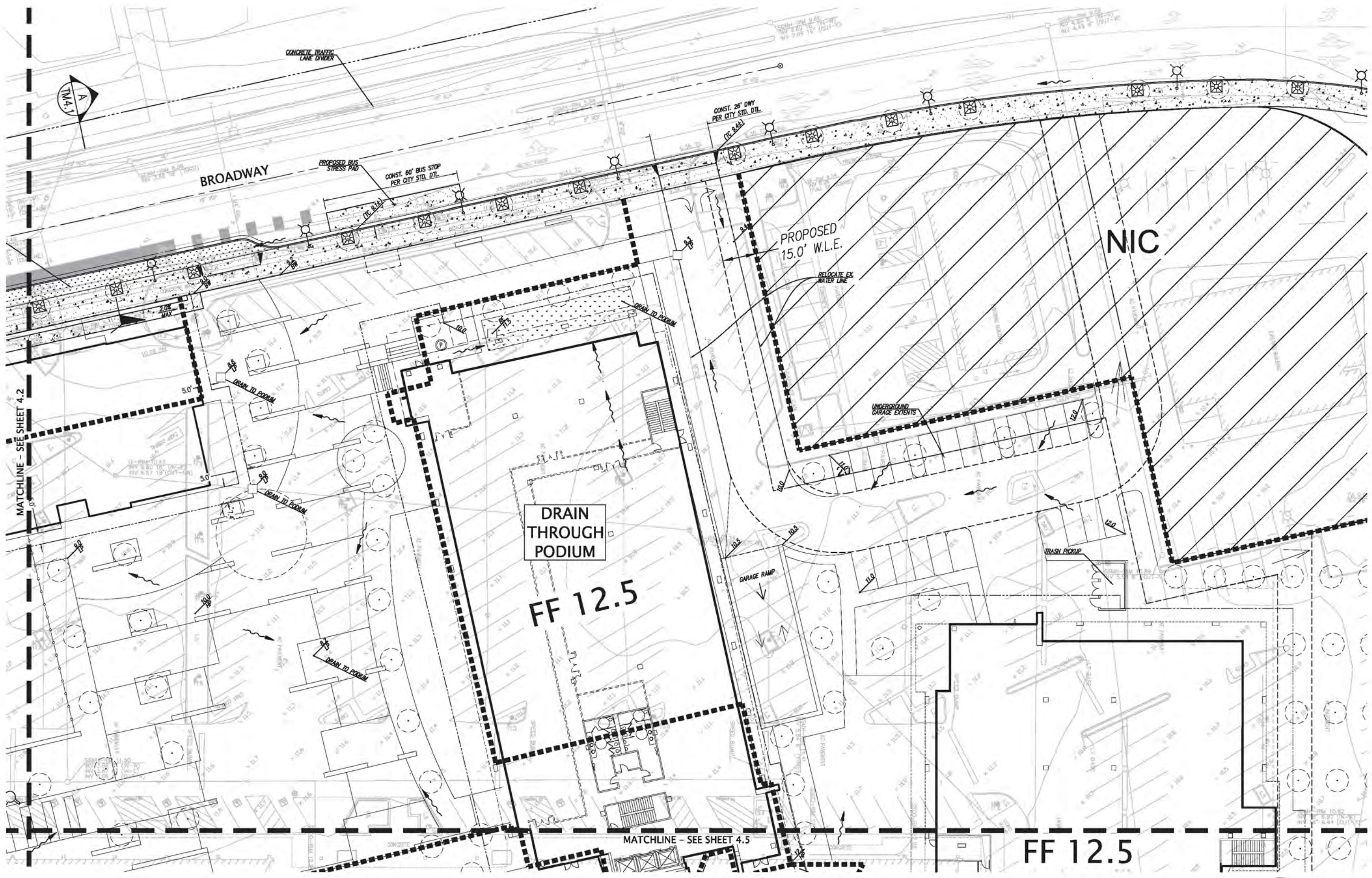
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PRELIMINARY GRADING PLAN – BROADWAY

Sheet No: 10

TM-4.3





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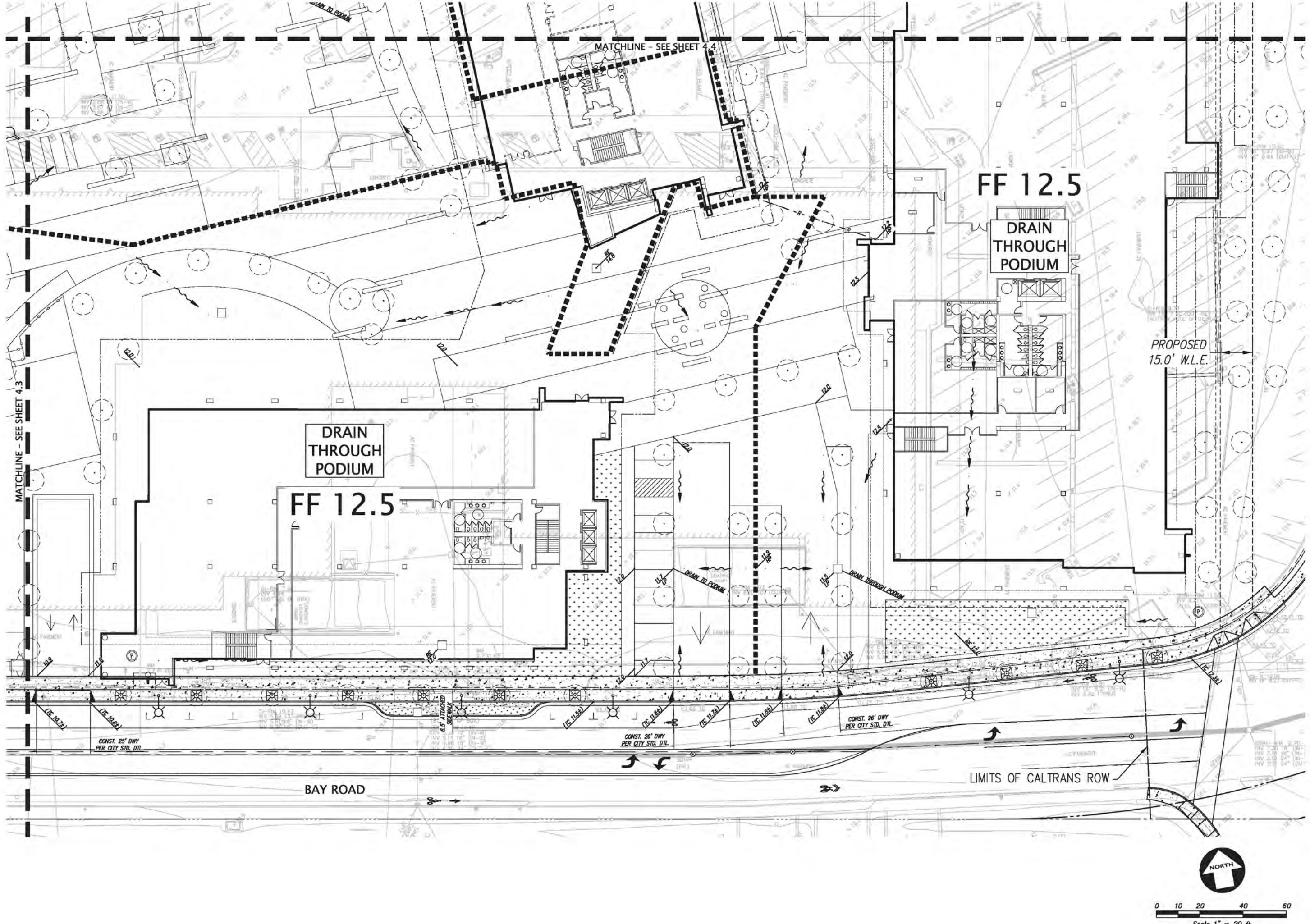
The Sobrato Organization &
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Sheet Title:
PRELIMINARY
GRADING PLAN -
BROADWAY

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 11

TM-4.4



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Sheet Title:
**PRELIMINARY
GRADING PLAN -
BROADWAY**

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 12

TM-4.5



0 10 20 40 60
Scale 1" = 20 ft



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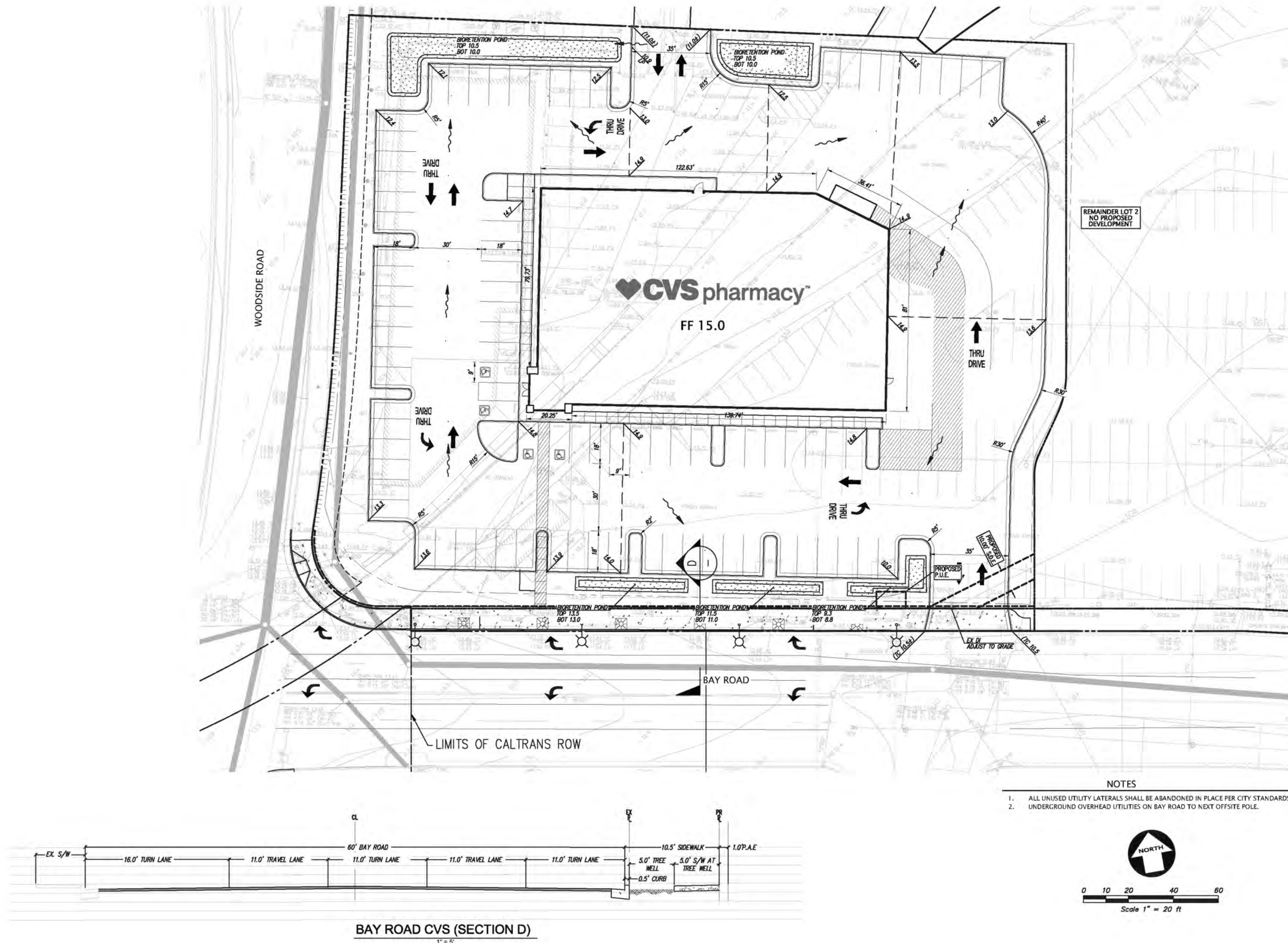
Sheet Title:

PRELIMINARY GRADING PLAN – BAY ROAD

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 13

TM-4.6





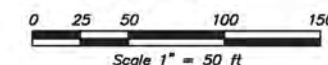
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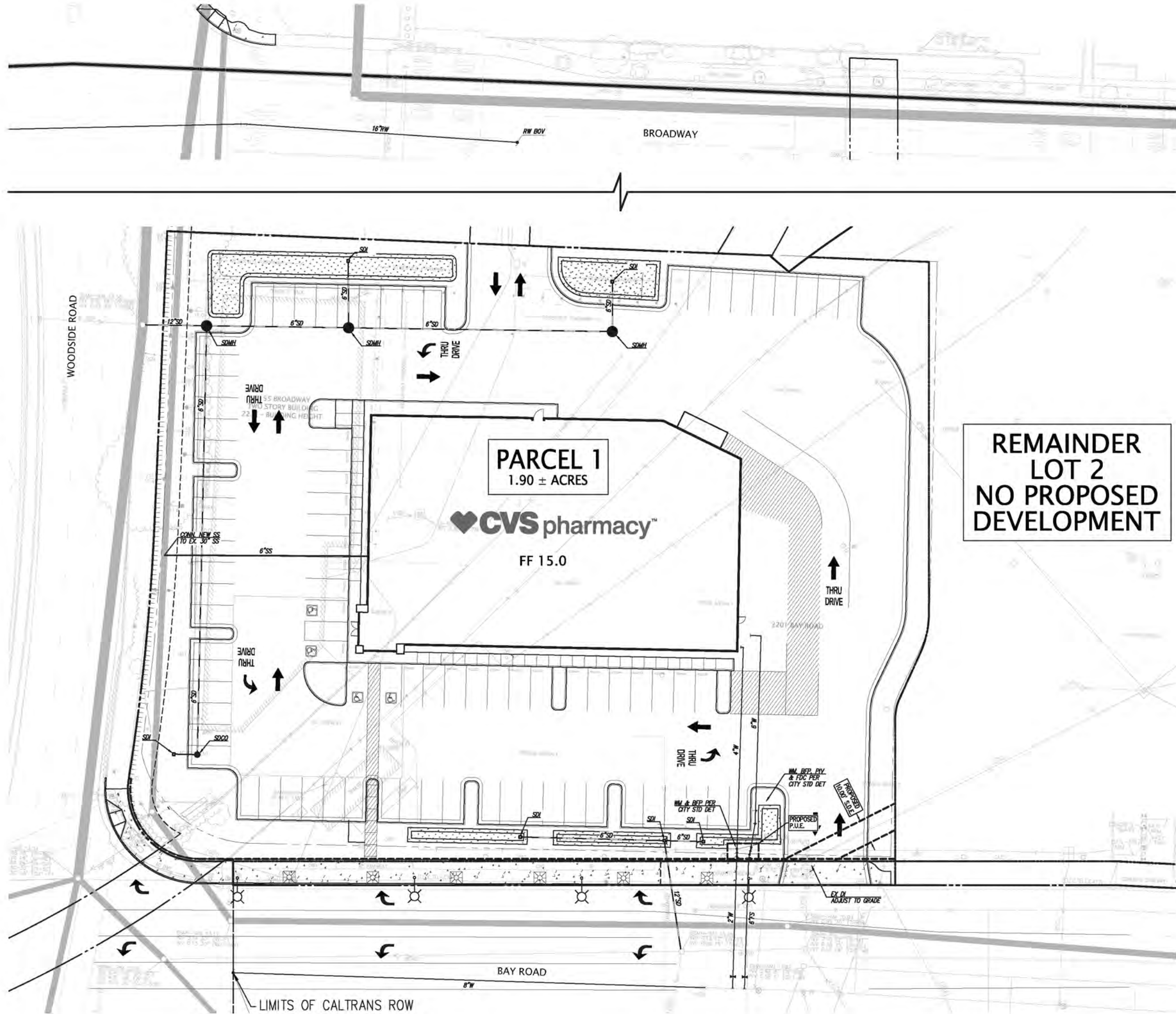
Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

TM-5.1



1. ALL UNUSED UTILITY LATERALS SHALL BE ABANDONED IN PLACE PER CITY STANDARDS.
2. STORM DRAIN IN THE PUBLIC RIGHT OF WAY SHALL BE RCP.
3. RECYCLED WATER MAIN SHALL BE HDPE.
4. PROPOSED WATER MAINS WITHIN THE EASEMENT SHALL BE HDPE.
5. WATER MAINS OUTSIDE OF THE EASEMENT SHALL BE HDPE OR FULLY RESTRAINED PVC.
6. EXISTING POWER LINES ON PROPERTY FRONTAGE OF BAY ROAD SHALL BE UNDERGROUND TO THE NEXT OFFSITE POLE.
7. ALL GARAGE WATER, AND ANY OTHER INTERIOR DRAINS TO BE DIRECTED TO SANITARY SEWER.





NOTES

1. ALL UNUSED UTILITY LATERALS SHALL BE ABANDONED IN PLACE PER CITY STANDARDS.
2. STORM DRAIN IN THE PUBLIC RIGHT OF WAY SHALL BE RCP.
3. RECYCLED WATER MAIN SHALL BE HDPE.
4. ALL GARAGE AND INTERIOR DRAINAGE SHALL BE PLUMBED TO SANITARY SEWER.
5. EXISTING POWER LINES ON PROPERTY FRONTAGE OF BAY ROAD SHALL BE UNDERGROUNDED TO THE NEXT OFFSITE POLE.



0 10 20 40 60
Scale 1" = 20 ft



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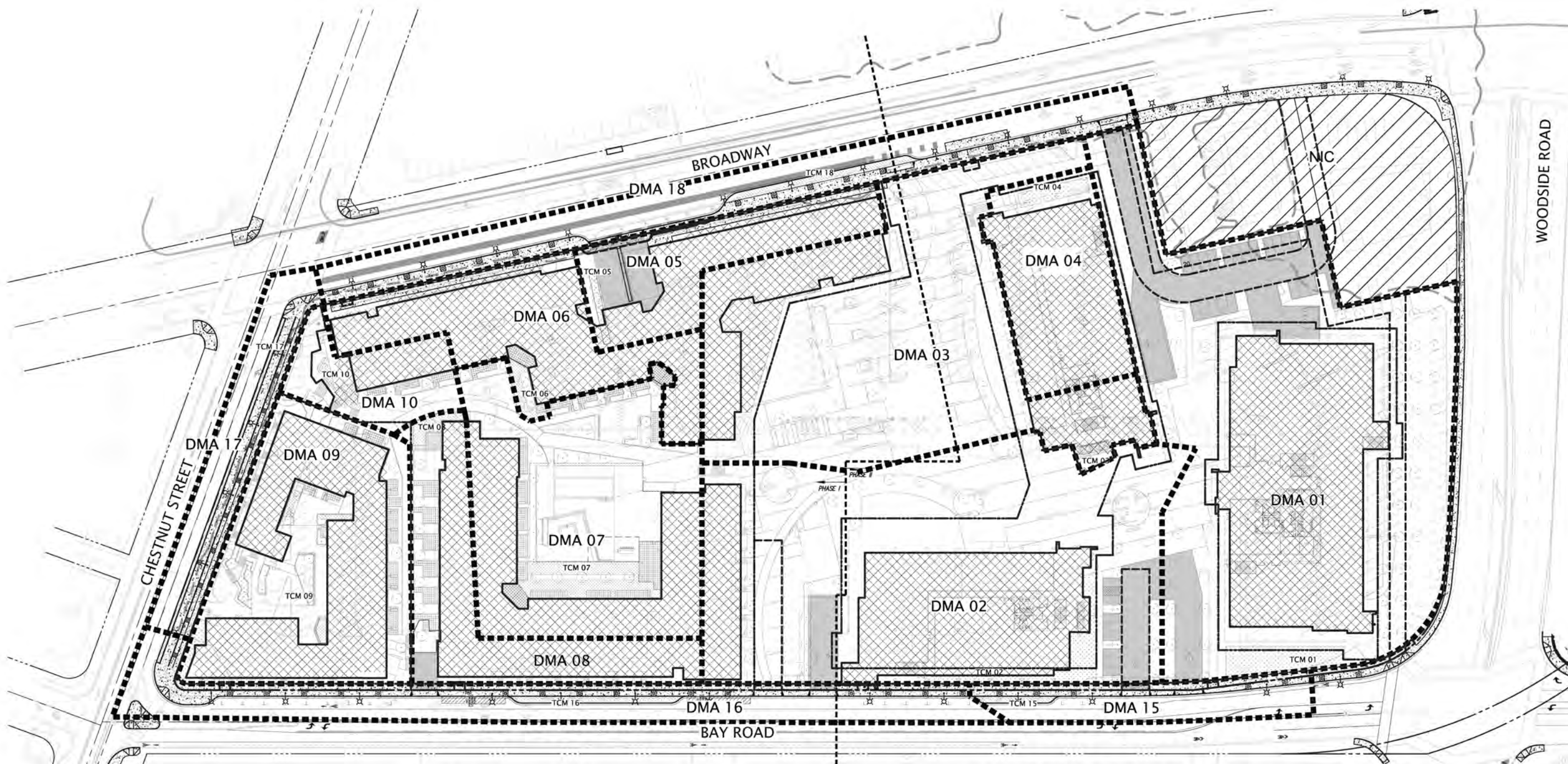
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Sheet Title:
PRELIMINARY UTILITY
PLAN - BAY ROAD

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 15

TM-5.2



BIOTREATMENT SUMMARY TABLE

AREA	TCM	TREATMENT TYPE	TOTAL AREA (SQ. FT.)	IMPERVIOUS AREA (SQ. FT.)	TREATMENT AREA REQ. (SQ. FT.)	TREATMENT AREA PROVIDED (SQ. FT.)	PONDING DEPTH (IN.)
**DMA 01	01	BIOTREATMENT POND	113,611	71,697	2,248	2,518	6
**DMA 02	02	BIOTREATMENT POND	92,385	72,846	2,251	2,772	6
**DMA 03	03	BIOTREATMENT POND	76,331	60,394	1,803	1,954	6
**DMA 04	04	BIOTREATMENT POND	22,103	18,084	537	889	6
**DMA 05	05	BIOTREATMENT POND	19,071	17,880	480	487	8
**DMA 06	06	BIOTREATMENT POND	27,142	25,955	758	779	6
**DMA 07	07	BIOTREATMENT POND	49,884	40,179	1,197	2,642	6
**DMA 08	08	BIOTREATMENT POND	23,959	17,592	578	633	6
**DMA 09	09	BIOTREATMENT POND	45,092	39,295	1,199	1,270	6
**DMA 10	10	BIOTREATMENT POND	11,793	10,405	306	341	6
**DMA 15	15	BIOTREATMENT POND	12,082	11,662	340	420	6
**DMA 16	16	BIOTREATMENT POND	31,418	30,357	886	1,060	6
**DMA 17	17	FLOW THROUGH PLANTERS	15,824	15,294	446	530	6
*DMA 18	18	BIOTREATMENT POND	29,687	28,488	1,187	1,199	6

*BIOTREATMENT SIZING BASED ON UNIFORM FLOW METHOD (4%).
**BIOTREATMENT SIZING BASED ON COMBINATION FLOW AND VOLUME METHOD.

SOURCE CONTROL MEASURES IMPLEMENTED

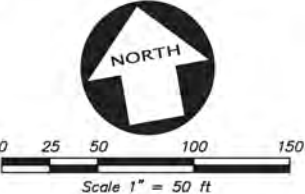
- SD-10: SITE DESIGN & LANDSCAPE PLANNING
- MAXIMIZED TREES AND PLANTING WITHIN HARDSCAPE AND LANDSCAPE AREAS.
 - VEGETATED SLOPES FOR ALL LANDSCAPE SLOPES LESS THAN 1:5 SLOPE.
- SD-11: EFFICIENT IRRIGATION
- RAIN-TRIGGERED SHUTOFF DEVICES TO PREVENT IRRIGATION AFTER PRECIPITATION.
 - SYSTEM DESIGNED TO SITE-SPECIFIC WATER DEMANDS AND PLANTING REQUIREMENTS.
- SD-13: STORM DRAIN SIGNAGE
- ALL CATCH BASINS TO BE STENCILED WITH PROHIBITIVE LANGUAGE PER CITY STANDARDS.

Table I.B.1 Impervious^a and Pervious Surfaces

	I.B.1.a	I.B.1.b	I.B.1.c	I.B.1.d	I.B.1.e
PRE-PROJECT IMPERVIOUS SURFACE (SQ.FT.)	EXISTING IMPERVIOUS SURFACE TO BE RETAINED (SQ.FT.)	EXISTING IMPERVIOUS SURFACE TO BE REPLACED (SQ.FT.)	NEW IMPERVIOUS SURFACE TO BE CREATED (SQ.FT.)	POST-PROJECT IMPERVIOUS SURFACE (SQ.FT.)	POST-PROJECT IMPERVIOUS SURFACE (SQ.FT.)
Type of Impervious Surface					
Roof area(s)	138,990	0	138,990	82,583	221,473
Impervious ^a sidewalk, patios, paths, driveway, streets	32,989	0	32,989	11,502	148,014
Impervious ^a uncovered parking	35,471	0	7,617	0	7,617
Totals:	525,994	0	245,596	197,608	446,204
I.B.1.f - Total Impervious Surface Replaced and Created: (sum of totals for columns I.B.1.c and I.B.1.d):			446,204		
Type of Pervious Surface	Pre-Project Pervious Surface (sq.ft.)			Post-Project Pervious Surface (sq.ft.)	
Landscaping	42,125			122,515	
Pervious Paving	0			0	
Green Roof	0			0	
Totals:	42,125			122,515	
Total Site Area (Total Impervious + Total Pervious):	568,119			568,119	

PLAN LEGEND

- TREATMENT AREA LIMITS
- DMA DRAINAGE MANAGEMENT AREA
- TCM TREATMENT CONTROL MEASURE
- IMPERVIOUS ROOFTOP DRAINING TO BIO-SWALE
- IMPERVIOUS PAVEMENT DRAINING TO BIO-SWALE
- CONCRETE AREA
- BIORETENTION POND
- FLOW THROUGH PLANTER



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Sheet Title:
**STORMWATER
CONTROL PLAN -
BROADWAY**

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1-1 Project Name: **Broadway and Woodside**
1-2 City application ID: **Redwood City**
1-3 Site Address or APN: **1401 Broadway**
1-4 Tract or Parcel Map No: **-**
1-5 Site Mean Annual Precip. (MAP)¹: **14.6** Inches
1-6 Applicable Rain Gauge²: **Palo Alto (SMCWPPP)**

MAP adjustment factor is automatically calculated as: **1.00**
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **DMA 1**
For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.
2-2 Impervious Surface: **73,084** Square feet
2-3 Pervious Surface*: **41,964** Square feet
Total DMA Area (square feet) = **115,048** Square feet
Total Effective Impervious Area (EIA) = **77,280** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
San Jose Airport (SCJAPR)	13.9	0.50
Palo Alto (SCJAPR)	13.9	0.50
Palo Alto (SMCWPPP)	14.6	0.50
Galaxy (SCJAPR)	14.6	0.50
Morgan Hill (SCJAPR)	14.6	0.50
Redwood City (SCJAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50

3-1 Unit basin storage volume from Table 5.2: **0.64** inches
3-2 Adjusted unit basin storage volume: **0.64** inches
3-3 Required Capture Volume (in cubic feet): **4,122** Cubic feet

4.0 Calculate the Duration of the Rain Event
4-1 Rainfall intensity: **0.2** Inches per hour
4-2 Divide Item 3-2 by Item 4-1: **3.20** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure
5-1 4% of DMA impervious surface: **3,091** Square feet
5-2 3% of DMA impervious surface: **2,318** Square feet
5-3 Volume of treated runoff for area in Item 5-2: **3,091** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area
6-1 Subtract Item 5-3 from Item 3-3: **1,030** Cubic feet (Amount of runoff to be stored in ponding area)
6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
6-3 Convert Item 6-2 from ft to inches: **5.3** Inches (Depth of stored runoff in surface ponding area)
6-4 If ponding depth in Item 6-3 meets your target depth of 6"-12", then Item 7-1 is equal to Item 5-2. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure
7-1 Enter an area larger or smaller than Item 5-2: **2248** Sq.ft. (Enter larger area if you need less ponding depth; smaller for more depth.)
7-2 Volume of treated runoff for area in Item 7-1: **2,997** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
7-3 Subtract Item 7-2 from Item 3-3: **1,124** Cubic feet (Amount of runoff to be stored in ponding area)
7-4 Divide Item 7-3 by Item 5-2: **0.50** Feet (Depth of stored runoff in surface ponding area)
7-5 Convert Item 7-4 from feet to inches: **6.0** Inches (Depth of stored runoff in surface ponding area)
7-6 Item 11 will be the max ponding depth (slopes >1% will increase the ponding depth by 0.2 inches).

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1-1 Project Name: **Broadway and Woodside**
1-2 City application ID: **Redwood City**
1-3 Site Address or APN: **1401 Broadway**
1-4 Tract or Parcel Map No: **-**
1-5 Site Mean Annual Precip. (MAP)¹: **14.6** Inches
1-6 Applicable Rain Gauge²: **Palo Alto (SMCWPPP)**

MAP adjustment factor is automatically calculated as: **1.00**
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **DMA 2**
For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.
2-2 Impervious Surface: **75,461** Square feet
2-3 Pervious Surface: **19,490** Square feet
Total DMA Area (square feet) = **94,951** Square feet
Total Effective Impervious Area (EIA) = **77,410** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
San Jose Airport (SCJAPR)	13.9	0.50
Palo Alto (SCJAPR)	13.9	0.50
Palo Alto (SMCWPPP)	14.6	0.50
Galaxy (SCJAPR)	14.6	0.50
Morgan Hill (SCJAPR)	14.6	0.50
Redwood City (SCJAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50

3-1 Unit basin storage volume from Table 5.2: **0.64** inches
3-2 Adjusted unit basin storage volume: **0.64** inches
3-3 Required Capture Volume (in cubic feet): **4,129** Cubic feet

4.0 Calculate the Duration of the Rain Event
4-1 Rainfall intensity: **0.2** Inches per hour
4-2 Divide Item 3-2 by Item 4-1: **3.20** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure
5-1 4% of DMA impervious surface: **3,096** Square feet
5-2 3% of DMA impervious surface: **2,322** Square feet
5-3 Volume of treated runoff for area in Item 5-2: **3,096** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area
6-1 Subtract Item 5-3 from Item 3-3: **1,032** Cubic feet (Amount of runoff to be stored in ponding area)
6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
6-3 Convert Item 6-2 from ft to inches: **5.3** Inches (Depth of stored runoff in surface ponding area)
6-4 If ponding depth in Item 6-3 meets your target depth of 6"-12", then Item 7-1 is equal to Item 5-2. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment M 25
7-1 Enter an area larger or smaller than Item 5-2: **2251** Sq.ft. (Enter larger area if you need less ponding depth; smaller for more depth.)
7-2 Volume of treated runoff for area in Item 7-1: **3,001** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
7-3 Subtract Item 7-2 from Item 3-3: **1,127** Cubic feet (Amount of runoff to be stored in ponding area)
7-4 Divide Item 7-3 by Item 5-2: **0.50** Feet (Depth of stored runoff in surface ponding area)
7-5 Convert Item 7-4 from feet to inches: **6.0** Inches (Depth of stored runoff in surface ponding area)
7-6 Item 11 will be the max ponding depth (slopes >1% will increase the ponding depth by 0.2 inches).

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1-1 Project Name: **Broadway and Woodside**
1-2 City application ID: **Redwood City**
1-3 Site Address or APN: **1401 Broadway**
1-4 Tract or Parcel Map No: **-**
1-5 Site Mean Annual Precip. (MAP)¹: **14.6** Inches
1-6 Applicable Rain Gauge²: **Palo Alto (SMCWPPP)**

MAP adjustment factor is automatically calculated as: **1.00**
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **DMA 3**
For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.
2-2 Impervious Surface: **60,394** Square feet
2-3 Pervious Surface: **16,076** Square feet
Total DMA Area (square feet) = **76,470** Square feet
Total Effective Impervious Area (EIA) = **62,002** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
San Jose Airport (SCJAPR)	13.9	0.50
Palo Alto (SCJAPR)	13.9	0.50
Palo Alto (SMCWPPP)	14.6	0.50
Galaxy (SCJAPR)	14.6	0.50
Morgan Hill (SCJAPR)	14.6	0.50
Redwood City (SCJAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50

3-1 Unit basin storage volume from Table 5.2: **0.64** inches
3-2 Adjusted unit basin storage volume: **0.64** inches
3-3 Required Capture Volume (in cubic feet): **3,307** Cubic feet

4.0 Calculate the Duration of the Rain Event
4-1 Rainfall intensity: **0.2** Inches per hour
4-2 Divide Item 3-2 by Item 4-1: **3.20** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure
5-1 4% of DMA impervious surface: **2,480** Square feet
5-2 3% of DMA impervious surface: **1,860** Square feet
5-3 Volume of treated runoff for area in Item 5-2: **2,480** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area
6-1 Subtract Item 5-3 from Item 3-3: **827** Cubic feet (Amount of runoff to be stored in ponding area)
6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
6-3 Convert Item 6-2 from ft to inches: **5.3** Inches (Depth of stored runoff in surface ponding area)
6-4 If ponding depth in Item 6-3 meets your target depth of 6"-12", then Item 7-1 is equal to Item 5-2. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment M 25
7-1 Enter an area larger or smaller than Item 5-2: **1803** Sq.ft. (Enter larger area if you need less ponding depth; smaller for more depth.)
7-2 Volume of treated runoff for area in Item 7-1: **2,404** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
7-3 Subtract Item 7-2 from Item 3-3: **903** Cubic feet (Amount of runoff to be stored in ponding area)
7-4 Divide Item 7-3 by Item 5-2: **0.50** Feet (Depth of stored runoff in surface ponding area)
7-5 Convert Item 7-4 from feet to inches: **6.0** Inches (Depth of stored runoff in surface ponding area)
7-6 Item 11 will be the max ponding depth (slopes >1% will increase the ponding depth by 0.2 inches).

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1-1 Project Name: **Broadway and Woodside**
1-2 City application ID: **Redwood City**
1-3 Site Address or APN: **1401 Broadway**
1-4 Tract or Parcel Map No: **-**
1-5 Site Mean Annual Precip. (MAP)¹: **14.6** Inches
1-6 Applicable Rain Gauge²: **Palo Alto (SMCWPPP)**

MAP adjustment factor is automatically calculated as: **1.00**
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **DMA 4**
For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.
2-2 Impervious Surface: **18,084** Square feet
2-3 Pervious Surface: **4,028** Square feet
Total DMA Area (square feet) = **22,112** Square feet
Total Effective Impervious Area (EIA) = **18,487** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
San Jose Airport (SCJAPR)	13.9	0.50
Palo Alto (SCJAPR)	13.9	0.50
Palo Alto (SMCWPPP)	14.6	0.50
Galaxy (SCJAPR)	14.6	0.50
Morgan Hill (SCJAPR)	14.6	0.50
Redwood City (SCJAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50

3-1 Unit basin storage volume from Table 5.2: **0.64** inches
3-2 Adjusted unit basin storage volume: **0.64** inches
3-3 Required Capture Volume (in cubic feet): **986** Cubic feet

4.0 Calculate the Duration of the Rain Event
4-1 Rainfall intensity: **0.2** Inches per hour
4-2 Divide Item 3-2 by Item 4-1: **3.20** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure
5-1 4% of DMA impervious surface: **739** Square feet
5-2 3% of DMA impervious surface: **555** Square feet
5-3 Volume of treated runoff for area in Item 5-2: **739** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area
6-1 Subtract Item 5-3 from Item 3-3: **246** Cubic feet (Amount of runoff to be stored in ponding area)
6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
6-3 Convert Item 6-2 from ft to inches: **5.3** Inches (Depth of stored runoff in surface ponding area)
6-4 If ponding depth in Item 6-3 meets your target depth of 6"-12", then Item 7-1 is equal to Item 5-2. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment M 25
7-1 Enter an area larger or smaller than Item 5-2: **537** Sq.ft. (Enter larger area if you need less ponding depth; smaller for more depth.)
7-2 Volume of treated runoff for area in Item 7-1: **716** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
7-3 Subtract Item 7-2 from Item 3-3: **270** Cubic feet (Amount of runoff to be stored in ponding area)
7-4 Divide Item 7-3 by Item 5-2: **0.50** Feet (Depth of stored runoff in surface ponding area)
7-5 Convert Item 7-4 from feet to inches: **6.0** Inches (Depth of stored runoff in surface ponding area)
7-6 Item 11 will be the max ponding depth (slopes >1% will increase the ponding depth by 0.2 inches).

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1-1 Project Name: **Broadway and Woodside**
1-2 City application ID: **Redwood City**
1-3 Site Address or APN: **1401 Broadway**
1-4 Tract or Parcel Map No: **-**
1-5 Site Mean Annual Precip. (MAP)¹: **14.6** Inches
1-6 Applicable Rain Gauge²: **Palo Alto (SMCWPPP)**

MAP adjustment factor is automatically calculated as: **1.00**
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **DMA 5**
For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.
2-2 Impervious Surface: **17,880** Square feet
2-3 Pervious Surface: **1,195** Square feet
Total DMA Area (square feet) = **19,075** Square feet
Total Effective Impervious Area (EIA) = **18,000** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
San Jose Airport (SCJAPR)	13.9	0.50
Palo Alto (SCJAPR)	13.9	0.50
Palo Alto (SMCWPPP)	14.6	0.50
Galaxy (SCJAPR)	14.6	0.50
Morgan Hill (SCJAPR)	14.6	0.50
Redwood City (SCJAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50
San Francisco Airport (SFOAPR)	14.6	0.50
San Francisco Downtown (SFOAPR)	14.6	0.50
San Francisco International (SFOAPR)	14.6	0.50

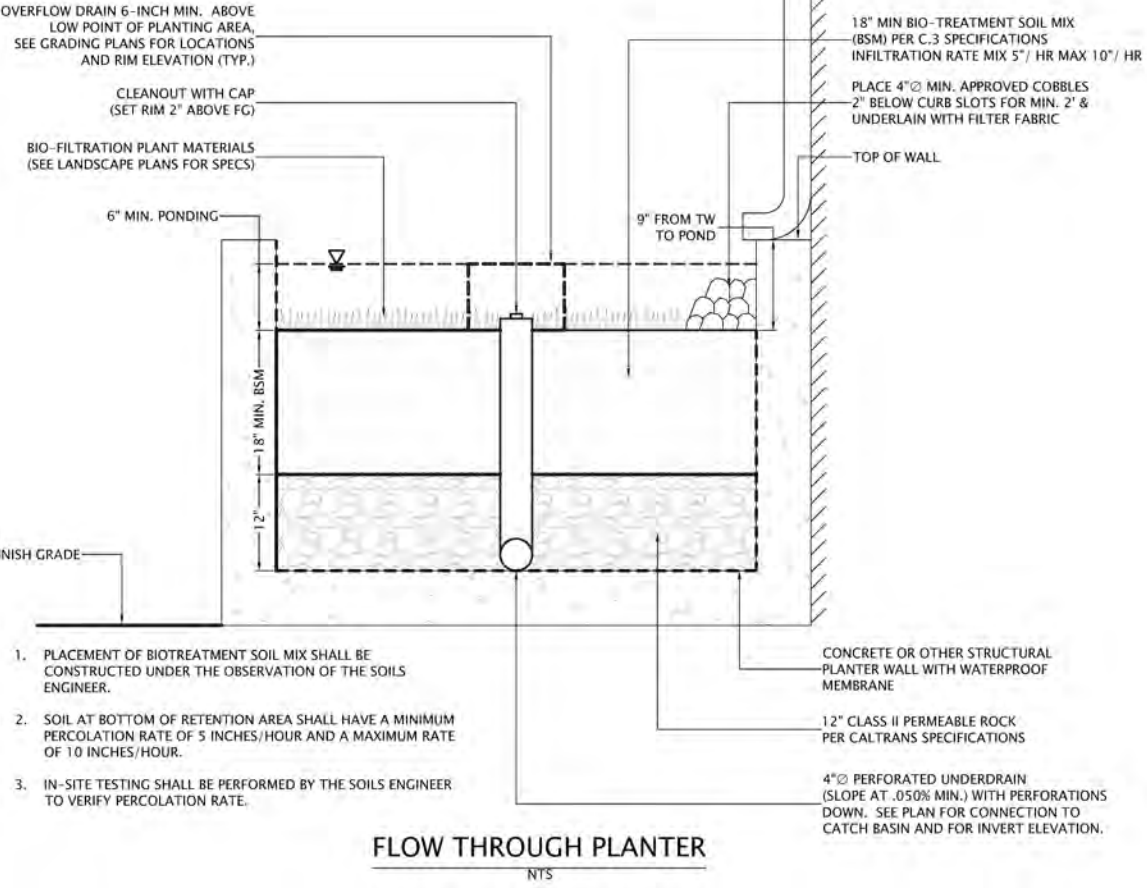
3-1 Unit basin storage volume from Table 5.2: **0.64** inches
3-2 Adjusted unit basin storage volume: **0.64** inches
3-3 Required Capture Volume (in cubic feet): **960** Cubic feet

4.0 Calculate the Duration of the Rain Event
4-1 Rainfall intensity: **0.2** Inches per hour
4-2 Divide Item 3-2 by Item 4-1: **3.20** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure
5-1 4% of DMA impervious surface: **720** Square feet
5-2 3% of DMA impervious surface: **540** Square feet
5-3 Volume of treated runoff for area in Item 5-2: **720** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area
6-1 Subtract Item 5-3 from Item 3-3: **240** Cubic feet (Amount of runoff to be stored in ponding area)
6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
6-3 Convert Item 6-2 from ft to inches: **5.3** Inches (Depth of stored runoff in surface ponding area)
6-4 If ponding depth in Item 6-3 meets your target depth of 6"-12", then Item 7-1 is equal to Item 5-2. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment M 25
7-1 Enter an area larger or smaller than Item 5-2: **480** Sq.ft. (Enter larger area if you need less ponding depth; smaller for more depth.)
7-2 Volume of treated runoff for area in Item 7-1: **640** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
7-3 Subtract Item 7-2 from Item 3-3: **320** Cubic feet (Amount of runoff to be stored in ponding area)
7-4 Divide Item 7-3 by Item 5-2: **0.67** Feet (Depth of stored runoff in surface ponding area)
7-5 Convert Item 7-4 from feet to inches: **8.0** Inches (Depth of stored runoff in surface ponding area)
7-6 Item 11 will be the max ponding depth (slopes >1% will increase the ponding depth by 0.2 inches).



1. PLACEMENT OF BIOTREATMENT SOIL MIX SHALL BE CONSTRUCTED UNDER THE OBSERVATION OF THE SOILS ENGINEER.
2. SOIL AT BOTTOM OF RETENTION AREA SHALL HAVE A MINIMUM PERCOLATION RATE OF 5 INCHES/HOUR AND A MAXIMUM RATE OF 10 INCHES/HOUR.
3. IN-SITE TESTING SHALL BE PERFORMED BY THE SOILS ENGINEER TO VERIFY PERCOLATION RATE.

STUDIO T SQUARE

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Broadway Plaza
Redwood City, CA

The Sobrato Organization & MidPen Housing Corporation

Sheet Title:
STORM WATER DETAILS & CALCULATIONS - BROADWAY
Job No. **A14075**
Date: **03/15/2019**
Scale: **AS SHOWN**
Drawn By: **NM/HR**

Sheet No: **17**

TM-6.2

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1.1 Project Name:
1.2 City application ID:
1.3 Site Address or APN:
1.4 Tract or Parcel Map No.:

Broadway and Woodside

Redwood City

1401 Broadway

-

14.6

Inches

1.5 Site Mean Annual Precip. (MAP):
1.6 Applicable Rain Gauge:

Refer to the Mean Annual Precipitation Map in Appendix D of the C-3 Technical Guidance to determine the MAP, in inches, for the site.

Click here for map

Palo Alto (SMCWPPP)

MAP adjustment factor is automatically calculated as:

1.00

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1 Name of DMA:

DMA 7

For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Permeous Surface	Effective Impervious Area
2.2 Impervious Surface	40,179	1.0	40,179
2.3 Permeous Surface	9,751	0.1	975
Total DMA Area (square feet) =	49,930		

2.4

Total Effective Impervious Area (EIA)

41,154

Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volume (in inches) for 80 Percent Capture Using 48-Hour Drainages

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients (Calculated for 100% Imperviousness)
San Jose Airport (SCVAPRP)	13.9	0.62
Palo Alto (SCVAPRP)	13.7	0.62
Palo Alto (SMCWPPP)	14.6	0.64
Contra Costa (SCVAPRP)	18.2	0.80
Morgan Hill (SCVAPRP)	19.3	1.00
Redwood Creek (SMCWPPP)	19.2	1.04
La Honda (SMCWPPP)	18.8	0.96
Half Moon Bay (SMCWPPP)	25.80	0.62
San Francisco (SMCWPPP)	30.3	0.79
San Francisco Airport (SMCWPPP)	30.3	0.85
San Francisco Downtown (SMCWPPP)	30.3	0.72
Oakland Airport (OAKAP)	18.30	1.00

5.1

Unit basin storage volume from Table 5.2:

0.64

Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area.)

5.2

Adjusted unit basin storage volume:

0.64

Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

5.3

Required Capture Volume (in cubic feet):

2,195

Cubic feet

(The adjusted unit basin storage volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4.1 Rainfall intensity:

0.2

Inches per hour

4.2

Divide Item 3.2 by Item 4.1

3.20

Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5.1 4% of DMA impervious surface:

1,646

Square feet

5.2 3% of DMA impervious surface:

1,235

Square feet

5.3 Volume of treated runoff for area in Item 5.2

1,646

Cubic feet (Item 5.2 * 5 inches per hour * 1/12 * Item 4.2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6.1 Subtract Item 5.3 from Item 5.1

549

Cubic feet (Amount of runoff to be stored in ponding area)

6.2 Divide Item 6.1 by Item 5.2

0.4

Feet (Depth of stored runoff in surface ponding area)

6.3 Convert Item 6.2 from ft to inches

5.3

Inches (Depth of stored runoff in surface ponding area)

6.4 If ponding depth in Item 6.3 meets your target depth of 6" - 12", then Item 7.1 is equal to Item 5.2. If not, continue to Step 7.1.

7.0 Optimize Size of Treatment M 25

7.1 Enter an area larger or smaller than Item 5.2

1197

Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)

7.2 Volume of treated runoff for area in Item 7.1

1,596

Cubic feet (Item 7.1 * 5 inches per hour * 1/12 * Item 4.2)

7.3 Subtract Item 7.2 from Item 5.3

599

Cubic feet (Amount of runoff to be stored in ponding area)

7.4 Divide Item 7.3 by Item 7.1

0.50

Feet (Depth of stored runoff in surface ponding area)

7.5 Convert Item 7.4 from feet to inches

6.0

Inches (Depth of stored runoff in surface ponding area)

7.6 If the ponding depth in Item 7.5 meets target, stop here. If not, repeat Steps 7.1 through 7.5 until you obtain target depth. If the slope of the drainage area > 1%, then 12" will be the max ponding depth (slopes > 1% will increase the ponding depth by 0.2 inches).

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1.1 Project Name:
1.2 City application ID:
1.3 Site Address or APN:
1.4 Tract or Parcel Map No.:

Broadway and Woodside

Redwood City

1401 Broadway

-

14.6

Inches

1.5 Site Mean Annual Precip. (MAP):
1.6 Applicable Rain Gauge:

Refer to the Mean Annual Precipitation Map in Appendix D of the C-3 Technical Guidance to determine the MAP, in inches, for the site.

Click here for map

Palo Alto (SMCWPPP)

MAP adjustment factor is automatically calculated as:

1.00

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1 Name of DMA:

DMA 9

For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Permeous Surface	Effective Impervious Area
2.2 Impervious Surface	40,658	1.0	40,658
2.3 Permeous Surface	5,806	0.1	581
Total DMA Area (square feet) =	46,464		

2.4

Total Effective Impervious Area (EIA)

41,239

Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volume (in inches) for 80 Percent Capture Using 48-Hour Drainages

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients (Calculated for 100% Imperviousness)
San Jose Airport (SCVAPRP)	13.9	0.62
Palo Alto (SCVAPRP)	13.7	0.62
Palo Alto (SMCWPPP)	14.6	0.64
Contra Costa (SCVAPRP)	18.2	0.80
Morgan Hill (SCVAPRP)	19.3	1.00
Redwood Creek (SMCWPPP)	19.2	1.04
La Honda (SMCWPPP)	18.8	0.96
Half Moon Bay (SMCWPPP)	25.80	0.62
San Francisco (SMCWPPP)	30.3	0.79
San Francisco Airport (SMCWPPP)	30.3	0.85
San Francisco Downtown (SMCWPPP)	30.3	0.72
Oakland Airport (OAKAP)	18.30	1.00

3.1

Unit basin storage volume from Table 5.2:

0.64

Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area.)

3.2

Adjusted unit basin storage volume:

0.64

Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3.3

Required Capture Volume (in cubic feet):

2,199

Cubic feet

(The adjusted unit basin storage volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4.1 Rainfall intensity:

0.2

Inches per hour

4.2

Divide Item 3.2 by Item 4.1

3.20

Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5.1 4% of DMA impervious surface:

1,650

Square feet

5.2 3% of DMA impervious surface:

1,237

Square feet

5.3 Volume of treated runoff for area in Item 5.2

1,650

Cubic feet (Item 5.2 * 5 inches per hour * 1/12 * Item 4.2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6.1 Subtract Item 5.3 from Item 5.1

550

Cubic feet (Amount of runoff to be stored in ponding area)

6.2 Divide Item 6.1 by Item 5.2

0.4

Feet (Depth of stored runoff in surface ponding area)

6.3 Convert Item 6.2 from ft to inches

5.3

Inches (Depth of stored runoff in surface ponding area)

6.4 If ponding depth in Item 6.3 meets your target depth of 6" - 12", then Item 7.1 is equal to Item 5.2. If not, continue to Step 7.1.

7.0 Optimize Size of Treatment M 25

7.1 Enter an area larger or smaller than Item 5.2

1199

Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)

7.2 Volume of treated runoff for area in Item 7.1

1,599

Cubic feet (Item 7.1 * 5 inches per hour * 1/12 * Item 4.2)

7.3 Subtract Item 7.2 from Item 5.3

601

Cubic feet (Amount of runoff to be stored in ponding area)

7.4 Divide Item 7.3 by Item 7.1

0.50

Feet (Depth of stored runoff in surface ponding area)

7.5 Convert Item 7.4 from feet to inches

6.0

Inches (Depth of stored runoff in surface ponding area)

7.6 If the ponding depth in Item 7.5 meets target, stop here. If not, repeat Steps 7.1 through 7.5 until you obtain target depth. If the slope of the drainage area > 1%, then 12" will be the max ponding depth (slopes > 1% will increase the ponding depth by 0.2 inches).

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1.1 Project Name:
1.2 City application ID:
1.3 Site Address or APN:
1.4 Tract or Parcel Map No.:

Broadway and Woodside

Redwood City

1401 Broadway

-

14.6

Inches

1.5 Site Mean Annual Precip. (MAP):
1.6 Applicable Rain Gauge:

Refer to the Mean Annual Precipitation Map in Appendix D of the C-3 Technical Guidance to determine the MAP, in inches, for the site.

Click here for map

Palo Alto (SMCWPPP)

MAP adjustment factor is automatically calculated as:

1.00

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1 Name of DMA:

DMA 15

For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Permeous Surface	Effective Impervious Area
2.2 Impervious Surface	11,662	1.0	11,662
2.3 Permeous Surface	420	0.1	42
Total DMA Area (square feet) =	12,082		

2.4

Total Effective Impervious Area (EIA)

11,704

Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volume (in inches) for 80 Percent Capture Using 48-Hour Drainages

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients (Calculated for 100% Imperviousness)
San Jose Airport (SCVAPRP)	13.9	0.62
Palo Alto (SCVAPRP)	13.7	0.62
Palo Alto (SMCWPPP)	14.6	0.64
Contra Costa (SCVAPRP)	18.2	0.80
Morgan Hill (SCVAPRP)	19.3	1.00
Redwood Creek (SMCWPPP)	19.2	1.04
La Honda (SMCWPPP)	18.8	0.96
Half Moon Bay (SMCWPPP)	25.80	0.62
San Francisco (SMCWPPP)	30.3	0.79
San Francisco Airport (SMCWPPP)	30.3	0.85
San Francisco Downtown (SMCWPPP)	30.3	0.72
Oakland Airport (OAKAP)	18.30	1.00

3.1

Unit basin storage volume from Table 5.2:

0.64

Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area.)

3.2

Adjusted unit basin storage volume:

0.64

Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3.3

Required Capture Volume (in cubic feet):

624

Cubic feet

(The adjusted unit basin storage volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4.1 Rainfall intensity:

0.2

Inches per hour

4.2

Divide Item 3.2 by Item 4.1

3.20

Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5.1 4% of DMA impervious surface:

468

Square feet

5.2 3% of DMA impervious surface:

351

Square feet

5.3 Volume of treated runoff for area in Item 5.2

468

Cubic feet (Item 5.2 * 5 inches per hour * 1/12 * Item 4.2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6.1 Subtract Item 5.3 from Item 5.1

156

Cubic feet (Amount of runoff to be stored in ponding area)

6.2 Divide Item 6.1 by Item 5.2

0.4

Feet (Depth of stored runoff in surface ponding area)

6.3 Convert Item 6.2 from ft to inches

5.3

Inches (Depth of stored runoff in surface ponding area)

6.4 If ponding depth in Item 6.3 meets your target depth of 6" - 12", then Item 7.1 is equal to Item 5.2. If not, continue to Step 7.1.

7.0 Optimize Size of Treatment M 25

7.1 Enter an area larger or smaller than Item 5.2

340

Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)

7.2 Volume of treated runoff for area in Item 7.1

453

Cubic feet (Item 7.1 * 5 inches per hour * 1/12 * Item 4.2)

7.3 Subtract Item 7.2 from Item 5.3

171

Cubic feet (Amount of runoff to be stored in ponding area)

7.4 Divide Item 7.3 by Item 7.1

0.50

Feet (Depth of stored runoff in surface ponding area)

7.5 Convert Item 7.4 from feet to inches

6.0

Inches (Depth of stored runoff in surface ponding area)

7.6 If the ponding depth in Item 7.5 meets target, stop here. If not, repeat Steps 7.1 through 7.5 until you obtain target depth. If the slope of the drainage area > 1%, then 12" will be the max ponding depth (slopes > 1% will increase the ponding depth by 0.2 inches).

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1.1 Project Name:
1.2 City application ID:
1.3 Site Address or APN:
1.4 Tract or Parcel Map No.:

Broadway and Woodside

Redwood City

1401 Broadway

-

14.6

Inches

1.5 Site Mean Annual Precip. (MAP):
1.6 Applicable Rain Gauge:

Refer to the Mean Annual Precipitation Map in Appendix D of the C-3 Technical Guidance to determine the MAP, in inches, for the site.

Click here for map

Palo Alto (SMCWPPP)

MAP adjustment factor is automatically calculated as:

1.00

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1 Name of DMA:

DMA 17

For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Permeous Surface	Effective Impervious Area
2.2 Impervious Surface	15,294	1.0	15,294
2.3 Permeous Surface	530	0.1	53
Total DMA Area (square feet) =	15,824		

2.4

Total Effective Impervious Area (EIA)

15,347

Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volume (in inches) for 80 Percent Capture Using 48-Hour Drainages

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients (Calculated for 100% Imperviousness)
San Jose Airport (SCVAPRP)	13.9	0.62
Palo Alto (SCVAPRP)	13.7	0.62
Palo Alto (SMCWPPP)	14.6	0.64
Contra Costa (SCVAPRP)	18.2	0.80
Morgan Hill (SCVAPRP)	19.3	1.00
Redwood Creek (SMCWPPP)	19.2	1.04
La Honda (SMCWPPP)	18.8	0.96
Half Moon Bay (SMCWPPP)	25.80	0.62
San Francisco (SMCWPPP)	30.3	0.79
San Francisco Airport (SMCWPPP)	30.3	0.85
San Francisco Downtown (SMCWPPP)	30.3	0.72
Oakland Airport (OAKAP)	18.30	1.00

3.1

Unit basin storage volume from Table 5.2:

0.64

Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area.)

3.2

Adjusted unit basin storage volume:

0.64

Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3.3

Required Capture Volume (in cubic feet):

819

Cubic feet

(The adjusted unit basin storage volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4.1 Rainfall intensity:

0.2

Inches per hour

4.2

Divide Item 3.2 by Item 4.1

3.20

Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5.1 4% of DMA impervious surface:

614

Square feet

5.2 3% of DMA impervious surface:

460

Square feet

5.3 Volume of treated runoff for area in Item 5.2

614

Cubic feet (Item 5.2 * 5 inches per hour * 1/12 * Item 4.2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6.1 Subtract Item 5.3 from Item 5.1

205

Cubic feet (Amount of runoff to be stored in ponding area)

6.2 Divide Item 6.1 by Item 5.2

0.4

Feet (Depth of stored runoff in surface ponding area)

6.3 Convert Item 6.2 from ft to inches

5.3

Inches (Depth of stored runoff in surface ponding area)

6.4 If ponding depth in Item 6.3 meets your target depth of 6" - 12", then Item 7.1 is equal to Item 5.2. If not, continue to Step 7.1.

7.0 Optimize Size of Treatment M 25

7.1 Enter an area larger or smaller than Item 5.2

446

Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)

7.2 Volume of treated runoff for area in Item 7.1

595

Cubic feet (Item 7.1 * 5 inches per hour * 1/12 * Item 4.2)

7.3 Subtract Item 7.2 from Item 5.3

224

Cubic feet (Amount of runoff to be stored in ponding area)

7.4 Divide Item 7.3 by Item 7.1

0.50

Feet (Depth of stored runoff in surface ponding area)

7.5 Convert Item 7.4 from feet to inches

6.0

Inches (Depth of stored runoff in surface ponding area)

7.6 If the ponding depth in Item 7.5 meets target, stop here. If not, repeat Steps 7.1 through 7.5 until you obtain target depth. If the slope of the drainage area > 1%, then 12" will be the max ponding depth (slopes > 1% will increase the ponding depth by 0.2 inches).

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1.1 Project Name:
1.2 City application ID:
1.3 Site Address or APN:
1.4 Tract or Parcel Map No.:

Broadway and Woodside

Redwood City

1401 Broadway

-

14.6

Inches

1.5 Site Mean Annual Precip. (MAP):
1.6 Applicable Rain Gauge:

Refer to the Mean Annual Precipitation Map in Appendix D of the C-3 Technical Guidance to determine the MAP, in inches, for the site.

Click here for map

Palo Alto (SMCWPPP)

MAP adjustment factor is automatically calculated as:

1.00

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1 Name of DMA:

DMA 8

For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Permeous Surface	Effective Impervious Area
2.2 Impervious Surface	19,238	1.0	19,238
2.3 Permeous Surface	6,508	0.1	651
Total DMA Area (square feet) =	25,746		

2.4

Total Effective Impervious Area (EIA)

19,889

Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volume (in inches) for 80 Percent Capture Using 48-Hour Drainages

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients (Calculated for 100% Imperviousness)
San Jose Airport (SCVAPRP)	13.9	0.62
Palo Alto (SCVAPRP)	13.7	0.62
Palo Alto (SMCWPPP)	14.6	0.64
Contra Costa (SCVAPRP)	18.2	0.80
Morgan Hill (SCVAPRP)	19.3	1.00
Redwood Creek (SMCWPPP)	19.2	1.04
La Honda (SMCWPPP)	18.8	0.96
Half Moon Bay (SMCWPPP)	25.80	0.62
San Francisco (SMCWPPP)	30.3	0.79
San Francisco Airport (SMCWPPP)	30.3	0.85
San Francisco Downtown (SMCWPPP)	30.3	0.72
Oakland Airport (OAKAP)	18.30	1.00

3.1

Unit basin storage volume from Table 5.2:

0.64

Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area.)

3.2

Adjusted unit basin storage volume:

0.64

Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3.3

Required Capture Volume (in cubic feet):

1,061

Cubic feet

(The adjusted unit basin storage volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4.1 Rainfall intensity:

0.2

Inches per hour

4.2

Divide Item 3.2 by Item 4.1

3.20

Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5.1 4% of DMA impervious surface:

796

Square feet

5.2 3% of DMA impervious surface:

597

Square feet

5.3 Volume of treated runoff for area in Item 5.2

796

Cubic feet (Item 5.2 * 5 inches per hour * 1/12 * Item 4.2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6.1 Subtract Item 5.3 from Item 5.1

265

Cubic feet (Amount of runoff to be stored in ponding area)

6.2 Divide Item 6.1 by Item 5.2

0.4

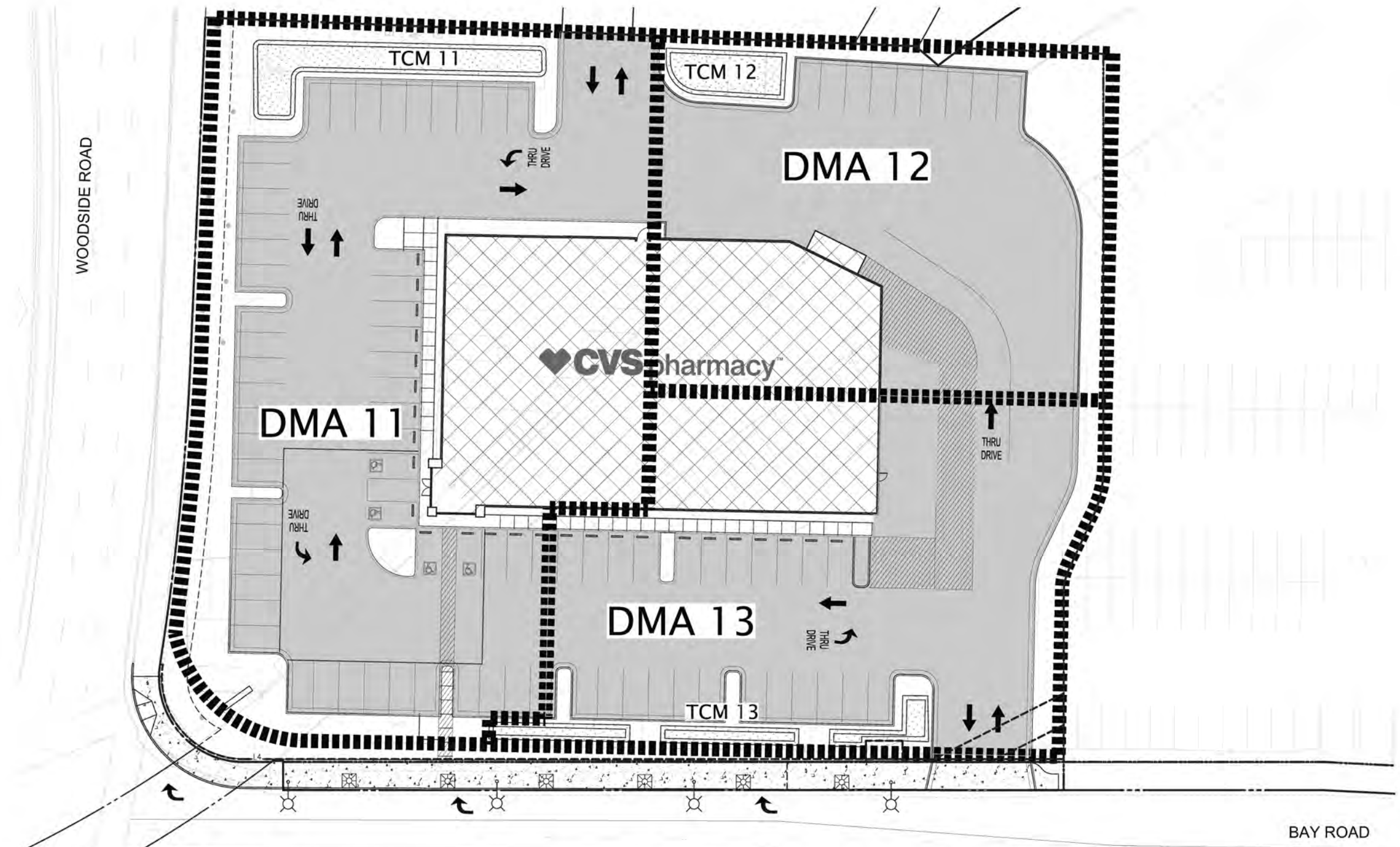
Feet (Depth of stored runoff in surface ponding area)

6.3 Convert Item 6.2 from ft to inches

5.3

Inches (Depth of stored runoff in surface ponding area)

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BIOTREATMENT SUMMARY TABLE

AREA	TCM	TREATMENT TYPE	TOTAL AREA (SQ. FT.)	IMPERVIOUS AREA (SQ. FT.)	TREATMENT AREA REQ. (SQ. FT.)	TREATMENT AREA PROVIDED (SQ. FT.)	PONDING DEPTH (IN.)
*DMA 11	11	BIOTREATMENT POND	31,496	29,355	1,176	1,176	6
*DMA 12	12	BIOTREATMENT POND	20,136	16,505	660	660	6
*DMA 13	13	BIOTREATMENT POND	22,491	18,075	723	723	6

*BIOTREATMENT SIZING BASED ON UNIFORM FLOW METHOD (4%).

Table I.B.1 Impervious and Pervious Surfaces

	I.B.1.a	I.B.1.b	I.B.1.c	I.B.1.d	I.B.1.e
	PRE-PROJECT IMPERVIOUS SURFACE (SQ. FT.)	EXISTING IMPERVIOUS SURFACE TO BE RETAINED (SQ. FT.)	EXISTING IMPERVIOUS SURFACE TO BE REPLACED (SQ. FT.)	NEW IMPERVIOUS SURFACE TO BE CREATED (SQ. FT.)	POST-PROJECT IMPERVIOUS SURFACE (SQ. FT. (I.C. + D))
Type of Impervious Surface					
Roof area(s)	139,890	0	139,890	82,583	221,473
Impervious* sidewalks, patios, paths, driveways, streets	32,989	0	32,989	11,602	148,014
Impervious* uncovered parking	354,715	0	76,717	0	76,717
Totals	525,594	0	249,596	197,605	446,204
I.B.1.f - Total Impervious Surface Replaced and Created: (sum of totals for columns I.B.1.c and I.B.1.d):			446,204		
Type of Pervious Surface	Pre-Project Pervious Surface (sq. ft.)				Post-Project Pervious Surface (sq. ft.)
Landscaping	42,125				122,515
Pervious Paving	0			I.B.1.e.1	0
Green Roof	0				0
Totals	42,125				122,515
Total Site Area (Total Impervious + Total Pervious)	568,719				568,719

SOURCE CONTROL MEASURES IMPLEMENTED

SD-10: SITE DESIGN & LANDSCAPE PLANNING

- MAXIMIZED TREES AND PLANTING WITHIN HARDSCAPE AND LANDSCAPE AREAS.
- PARKING LOT ISLANDS WITH TREES AND PLANTING.
- VEGETATED SLOPES FOR ALL LANDSCAPE SLOPES LESS THAN 1:5 SLOPE.

SD-11: EFFICIENT IRRIGATION

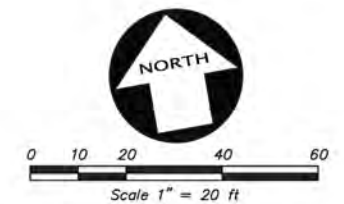
- RAIN-TRIGGERED SHUTOFF DEVICES TO PREVENT IRRIGATION AFTER PRECIPITATION.
- SYSTEM DESIGNED TO SITE-SPECIFIC WATER DEMANDS AND PLANTING REQUIREMENTS.

SD-13: STORM DRAIN SIGNAGE

- ALL CATCH BASINS TO BE STENCILED WITH PROHIBITIVE LANGUAGE PER CITY STANDARDS.

PLAN LEGEND

- TREATMENT AREA LIMITS
- DMA DRAINAGE MANAGEMENT AREA
- TCM TREATMENT CONTROL MEASURE
- IMPERVIOUS ROOFTOP DRAINING TO BIORETENTION
- IMPERVIOUS PAVEMENT DRAINING TO BIORETENTION
- CONCRETE AREA
- BIORETENTION POND
- FLOW THROUGH PLANTER

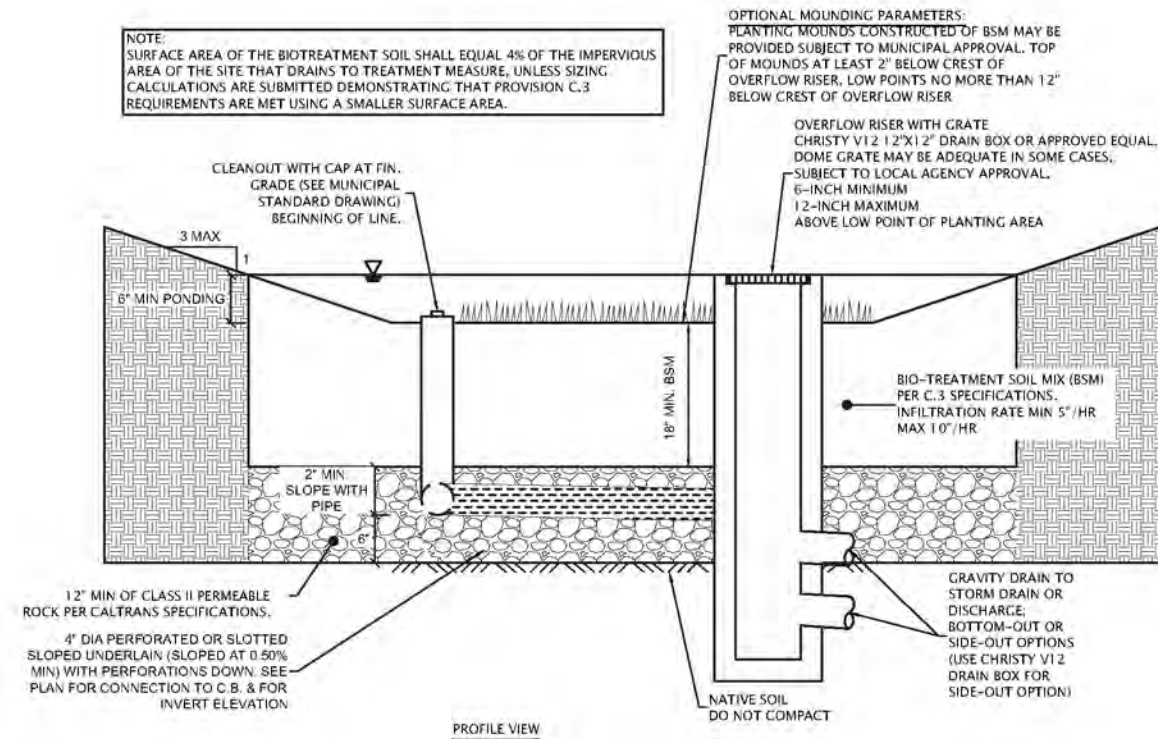


Sheet Title:

STORMWATER
CONTROL PLAN -
BAY ROAD

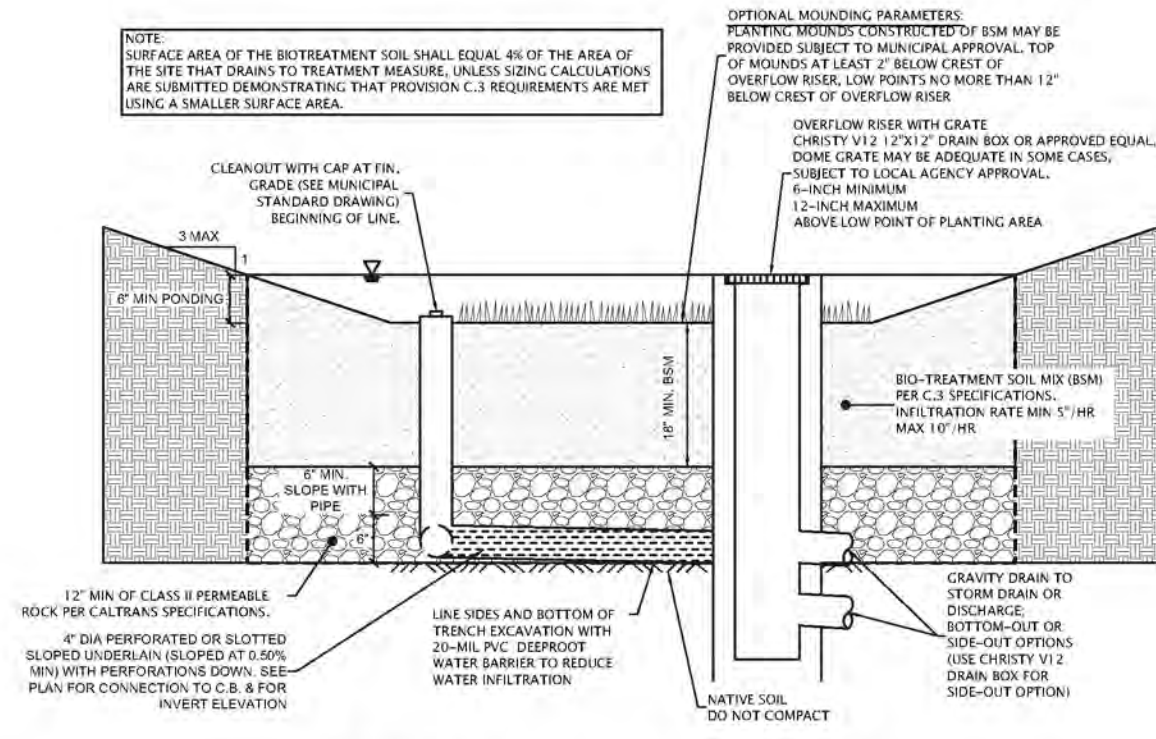
Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 19



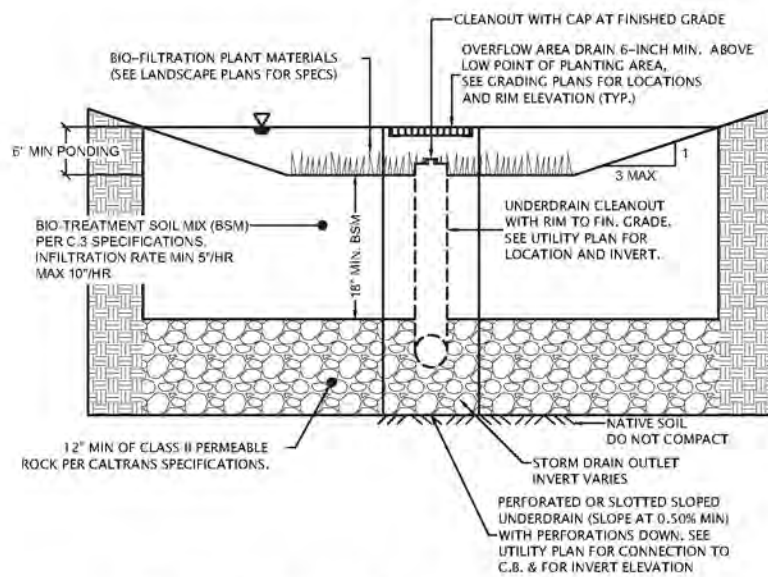
BIOTREATMENT POND (UNLINED) PROFILE VIEW

NOT TO SCALE



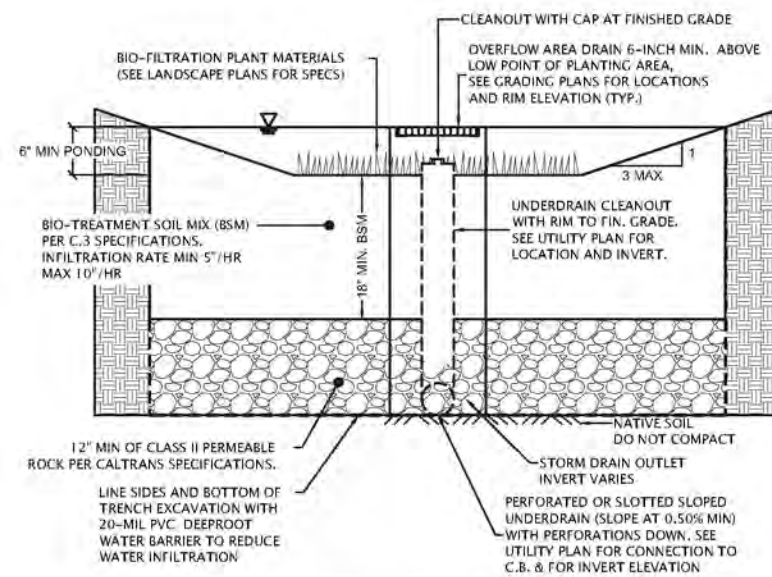
BIOTREATMENT POND (LINED) PROFILE VIEW

NOT TO SCALE



BIOTREATMENT POND (UNLINED) SECTION VIEW

NOT TO SCALE



BIOTREATMENT POND (LINED) SECTION VIEW

NOT TO SCALE



STUDIO
T SQUARE



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Broadway Plaza
Redwood City, CA

The Sobrato Organization &
MidPen Housing Corporation

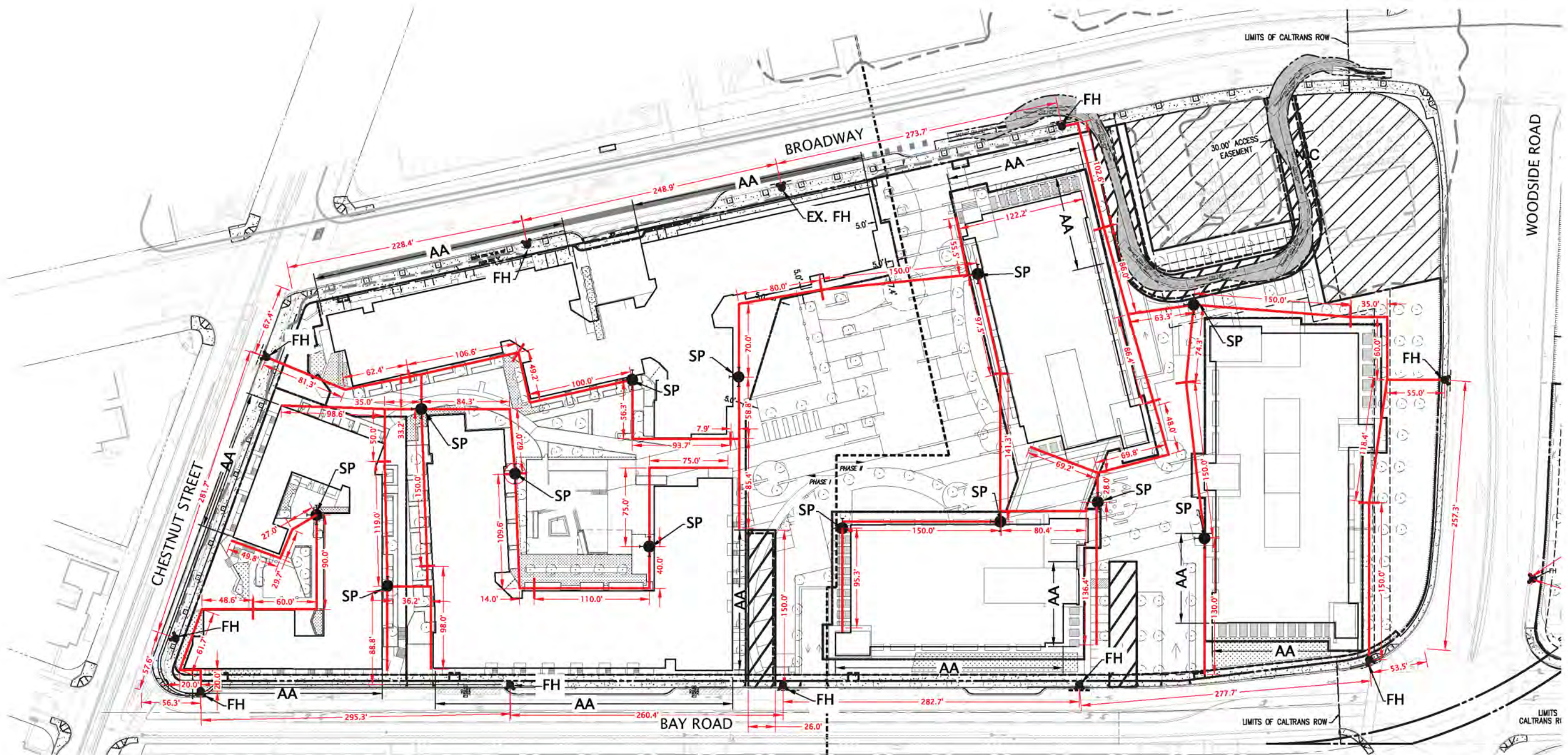
Sheet Title:

STORM WATER
DETAILS -
BAY ROAD

Job No. A14075
Date: 03/15/2019
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 20

TM-6.5



Gareth Harris
755 Marshall Street
Redwood City, CA 94063

Dear Gareth,
Here are our responses to the comments received from the Fire Department.

- Emergency Responder Radio Communications System - This project is required to have an Emergency Responder Radio Communications System (ERRCS) installed in accordance with CFC 510.
Duly noted, accepted as condition.
- Fire Department Knox Building Access - Knox Key boxes are required as part of this project to allow emergency access for firefighters to all buildings. Indicate on the plans that Knox Key boxes will be provided at the entrances to all buildings at locations approved by the fire department. Recessed key boxes shall be installed at all buildings five to six feet above finished grade CFC 506.
Duly noted, accepted as condition.
- Fire Apparatus Turn Arounds - Are required at the end of all Fire Access Lanes in excess of 150 feet. These turn arounds shall meet the City of Redwood City engineering standards. The fire apparatus turn around indicated on the plans does not meet the required specifications CFC D 103.4.
See updated Fire Access Plan (TM-7.1). For aerial access on the east side of building A, the site owns a 30' wide easement for access back to Broadway between the two buildings to remain (Jack in the Box & Denny's).
- Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all weather driving capabilities 503.2.3. Grass pave does not meet this requirement.
See updated landscaping drawings for removal of reference to Grass pave. Fire department approved material shall be used for access.

May 08, 2018

- At least one of the required aerial fire apparatus access routes meeting this condition shall be located within a minimum of 15 feet and a maximum of 30 feet from each building and shall be positioned parallel to one entire side of the building as per 2016 CFC D105.3.
Duly noted, accepted as condition and shown on Sheet TM-7.1.
- The plans indicate a number of Emergency Vehicle Access Easements. One of them is located on the East side of Building "A" adjacent to the building. The location does not have access into it that is compliant with turn radius for the fire department to be able to utilize it.
See updated Fire Access Plan (TM-7.1). For aerial access on the east side of building A, the site owns a 30' wide easement for access back to Broadway between the two buildings to remain (Jack in the Box & Denny's).
- The plans indicate a number of Red Curb fire lane designations. In addition to red curbs, appropriate Fire Lane No Parking signs are required as per Appendix D of the CFC.
Duly noted, accepted as condition.
- The plans indicate a three-story Atrium in one of the buildings. Provide engineered plans and air handling calculations for the required smoke removal system for the Atrium.
Duly noted, accepted as condition.
- Available Water Supply to Project Site - Provide current fire flow information from the water purveyor to indicate the maximum available water flow in gallons per minute (GPM) at a minimum of 20 pounds per square inch (psi) residual pressure. This information must be dated and indicate the information is the most current information available from the water purveyor.
Development:
Broadway - 5743 GPM @ 20 PSI (03/06/18)
Bay - 2852 GPM @ 20 PSI (05/01/18)
CVS Parcel - 1975 GPM @ 20 PSI (04/04/17)
- Automatic Fire Sprinkler / Standpipe Systems Required - As the proposed buildings are four or more stories in height all of the buildings and garage areas

- are required to be equipped with standpipe / fire sprinkler systems. Provide plans and hydraulic calculations for the design of these systems. The plans shall also indicate on-site exterior standpipe connections and interior standpipe connections in all of the buildings stairwells that need to be included in the hydraulic calculations.
Duly noted, accepted as condition.
- Fire Department Connections - FDC's to the fire sprinkler / standpipe systems shall be located at the fire access side of all buildings within 50 feet of a Fire Hydrant.
Duly noted, accepted as condition.
- Fire Alarm Systems Required - UL Central Station fully addressable fire alarm systems are required in all buildings meeting NFPA 72. Provide plans and voltage drop calculations for the design of these systems.
Duly noted, accepted as condition.
- Emergency Escape and Rescue Openings - All sleeping rooms must all be provided with emergency escape and rescue openings in accordance with CBC 1030. Confirm the design of the project includes compliant openings and those openings have ladder access for use by the fire department in an emergency. Show the point of ladder access on the fire department access plans.
Duly noted, accepted as condition.
- Premises Identification (Address Numbers) - Indicate on the plans where the premises identification (address) will be located and the size (minimum 12") in a contrasting background facing the street from which the building takes the address CFC 505.
Duly noted, accepted as condition.
- Gurney Accommodating Elevator Requirement - Elevators in buildings that are four stories or more shall provide for fire department emergency access to all floors. At least one elevator car in each building shall be of such a size and arrangement to accommodate an ambulance gurney 24 inches by 84 inches with not less than 6-inch radius corners, in the horizontal, open position and shall be identified by the international symbol for emergency

medical service. The symbol shall not be less than 3 inches high and shall be placed inside on both sides of the hoist-way door frame CBC 3002.4.
Duly noted, accepted as condition.

- Portable Fire Extinguishers Required - Portable fire extinguishers, with a minimum classification of 2A:10BC are required to be permanently installed in all buildings within 75 feet of travel from all portions of the building in compliance with NFPA 10 and CFC 906.
Duly noted, accepted as condition.

Please let me know if further information is necessary or if you have any questions about our responses.

Sincerely,

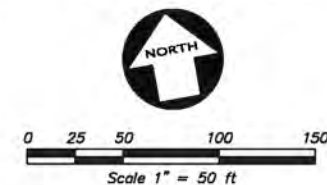
Nektarios Matheou, P.E.
Senior Engineer
nmatheou@kierwright.com
www.kierwright.com



PLAN LEGEND

AA	AERIAL ACCESS
EX	EXISTING
FH	FIRE HYDRANT
R	RADIUS
TYP	TYPICAL
	FIRE HYDRANT
	(SP) STANDPIPE
	FIRE ACCESS (LIMIT 150' BACKUP)
	STREET PARKING STRIPE
	PAINTED RED CURB WITH WHITE LETTERING READING "NO PARKING - FIRE LANE"

TEXT SHALL BE A MINIMUM OF FOUR INCHES TALL AND SHALL BE PLACED EVERY 30 FEET OR PORTION THEREOF, ON TOP OF DESIGNATED CURBING.



NOTES

1. AT THE BUILDING PERMIT STAGE, THE FIRE DEPARTMENT SHALL REQUIRE 150' FIRE HOSE ACCESS FROM ENGINE PLACEMENT AND STANDPIPE CONNECTIONS AROUND ALL BUILDINGS UTILIZING THE HOSE PULL PATHWAYS.



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3350 Scott Boulevard, Building 22
Santa Clara, California 95054
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Fax (408) 727 5641

Broadway Plaza
Redwood City, CA

The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
FIRE ACCESS PLAN - BROADWAY

Job No. A14075
Date: 08/17/2018
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 21

TM-7.1

PLAN LEGEND

- AA AERIAL ACCESS
- EX EXISTING
- FH FIRE HYDRANT
- R RADIUS
- TYP TYPICAL
- FIRE HYDRANT
- (SP) STANDPIPE
- FIRE ACCESS (LIMIT 150' BACKUP)

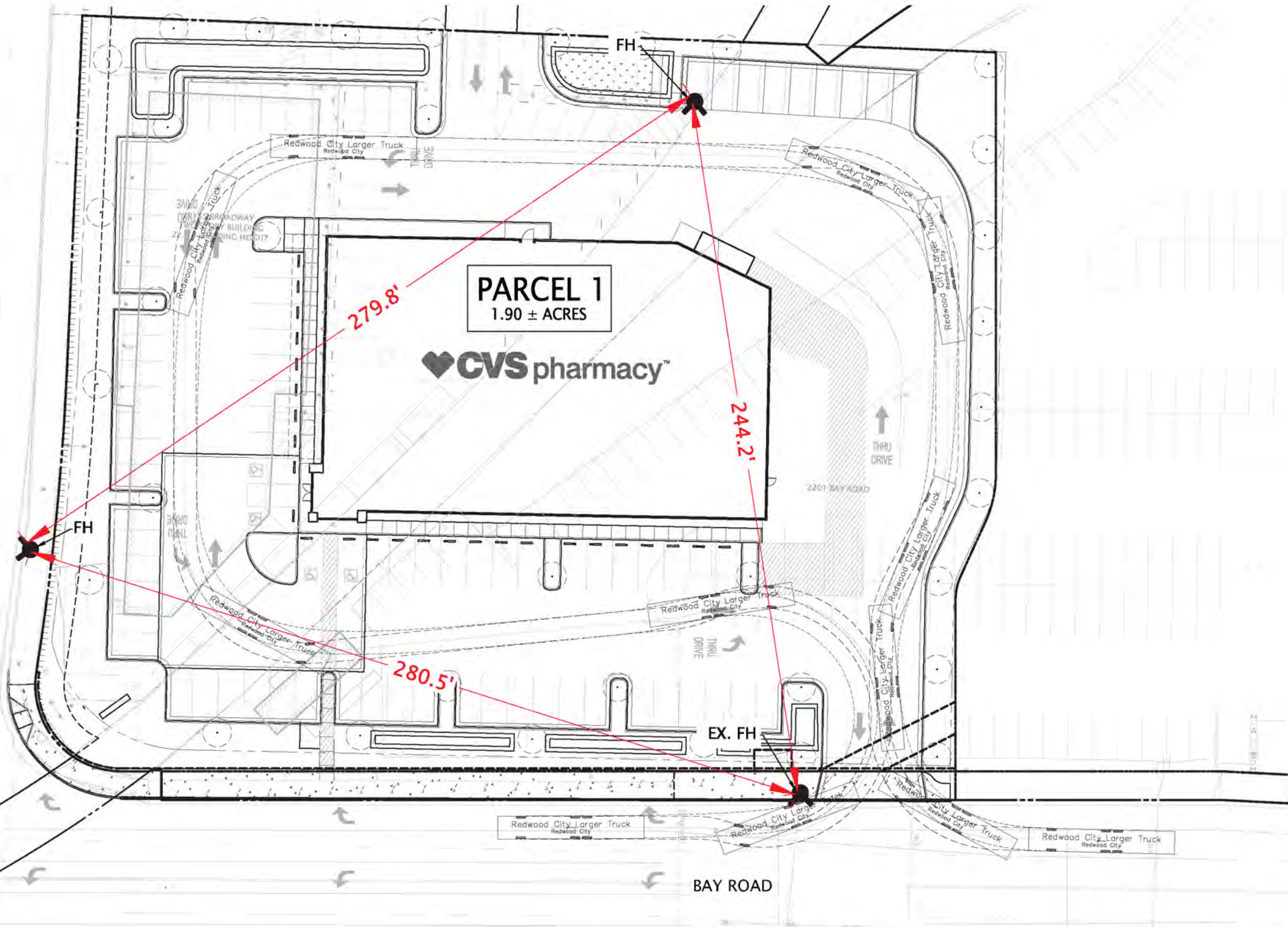
APPROVED

REDWOOD CITY / SAN CARLOS
FIRE DEPARTMENT

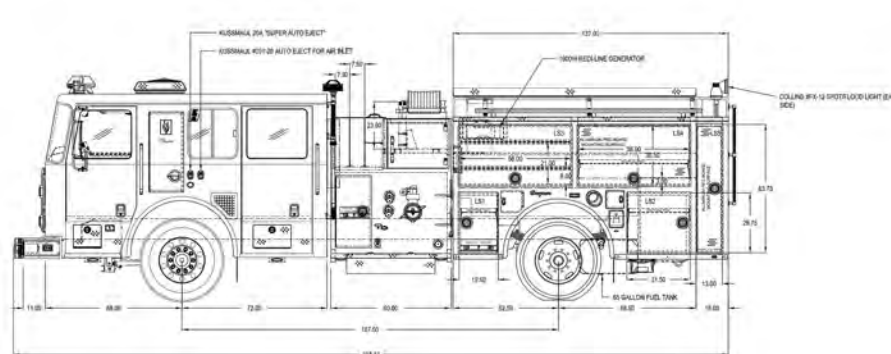
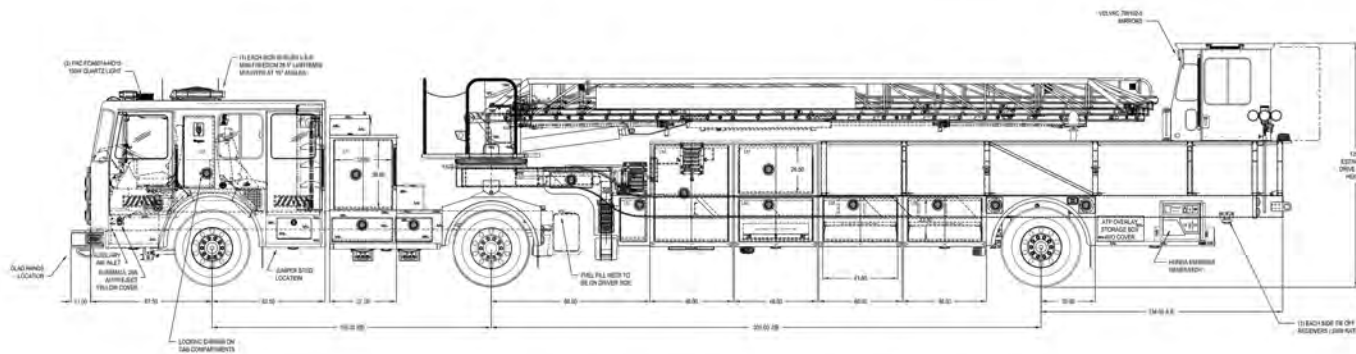
PLANS ARE IN COMPLIANCE WITH APPLICABLE BUILDING STANDARD'S CODES INCLUDING BUILDING AND FIRE CODES AS WELL AS ANY APPLICABLE NFPA AND / OR OTHER APPLICABLE LOCAL DESIGN STANDARDS. PLAN REVIEW COMPLIANCE DOES NOT AUTHORIZE CONSTRUCTION OR AUTHORIZE THE CONTRACTOR TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. ALL APPROVALS ARE SUBJECT TO VERIFICATION OF COMPLIANCE WITH ANY WRITTEN CONDITIONS AND ARE SUBJECT TO FIELD INSPECTION FOR COMPLIANCE.

BY: [Signature] DATE: 08/21/2018

WOODSIDE ROAD



BAY ROAD



0 10 20 40 60
Scale 1" = 20 ft



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Broadway Plaza
Redwood City, CA

The Sobrato Organization &
MidPen Housing Corporation

Sheet Title:
FIRE ACCESS PLAN -
BAY ROAD

Job No. A14075
Date: 08/17/2018
Scale: AS SHOWN
Drawn By: NM/HR

Sheet No: 22

TM-7.2