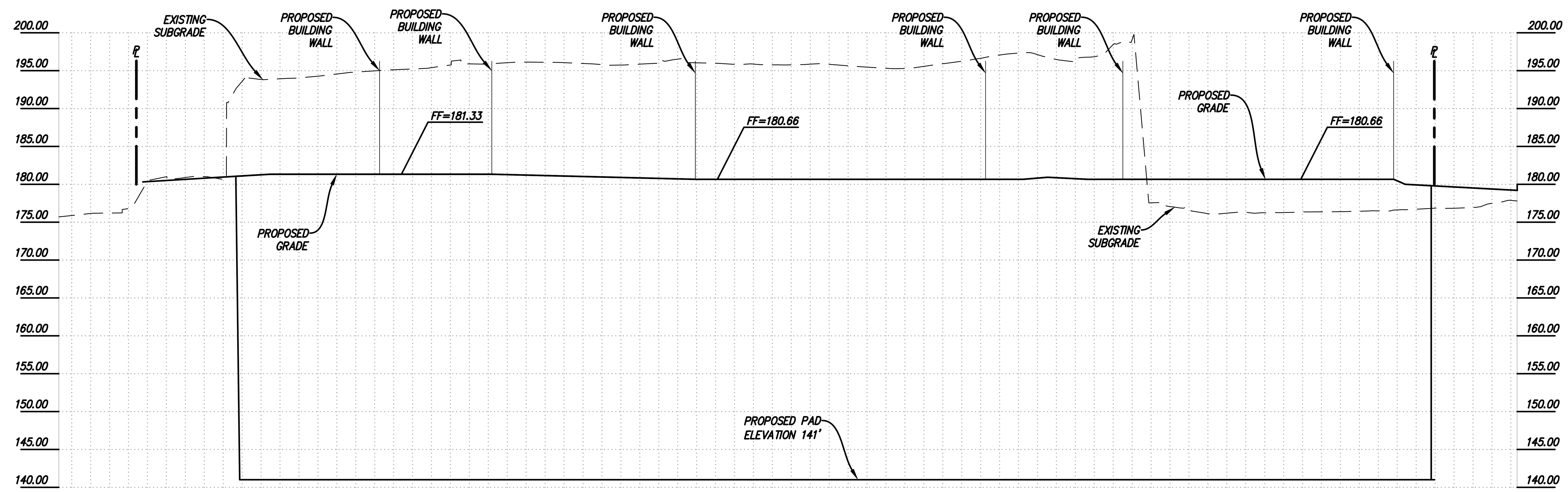
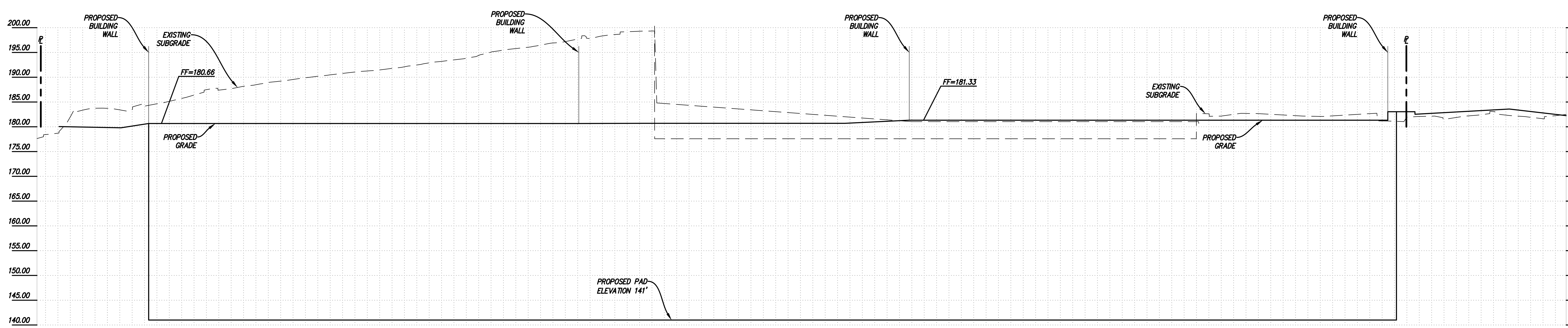


SECTION 1
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'



SECTION 2
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'

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SILICON VALLEY TRI-VALLEY CENTRAL VALLEY SACRAMENTO EAST BAY/SF

DATE:	07-31-2018
SCALE:	NA
DRAWN BY:	SP
APPROVED BY:	ND
DRAWING NO.:	215028

DATE JULY 31, 2018

CHAD J. BROWNING
R.C.E. NO. 68315, EXPIRES 9-30-19

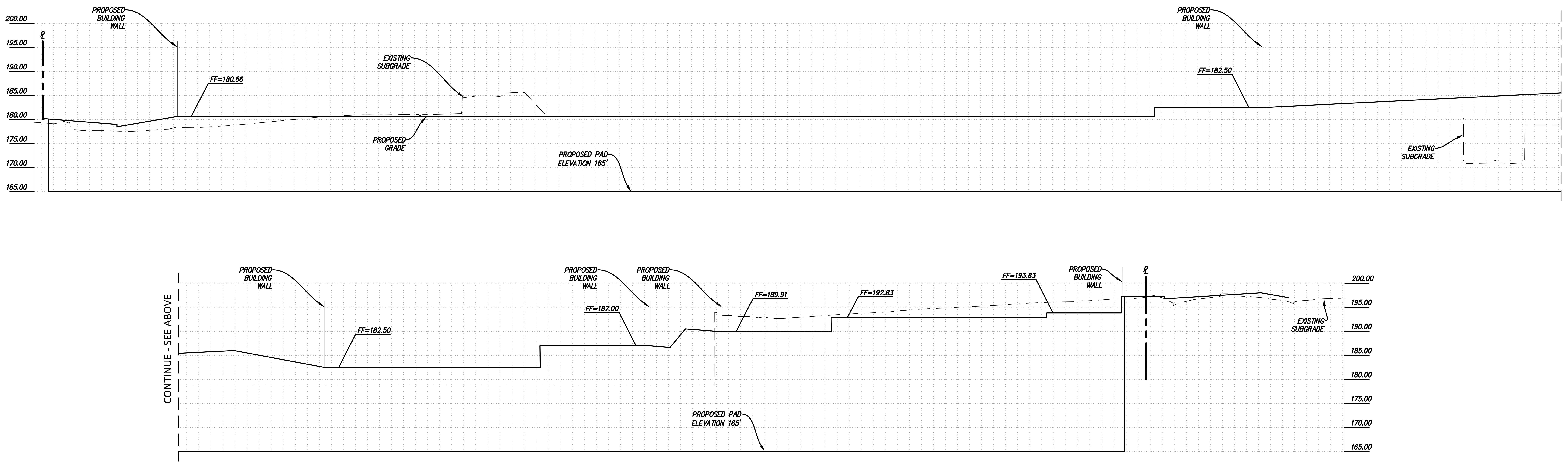
No.	REVISION/ISSUE	DATE	BY
REV-1	SB-35 APPLICATION REVISIONS	08/22/2018	ND

SECTIONS

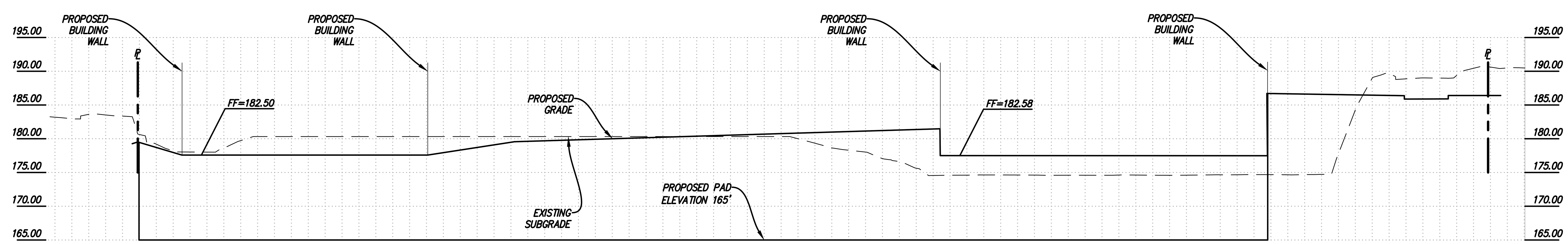
TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET
TM6.11
OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-6.11 SECTIONS.dwg Date: Aug 20, 2018 - 4:21pm, snickolas



SECTION 3
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'



SECTION 4
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'

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SURVEYORS
PLANNERS
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DATE:	07-31-2018
SCALE:	1"=30'
DRAWN BY:	SP
APPROVED BY:	ND
DRAWING NO.:	215028

DATE JULY 31, 2018

CHAD J. BROWNING
R.C.E. NO. 68315, EXPIRES 9-30-19

No.	REVISION/ISSUE	DATE	BY
REV-1	SB-35 APPLICATION REVISIONS	08/22/2018	ND

SECTIONS

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET
TM-6.12
OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-6.11 SECTIONS.dwg Date: Aug 20, 2018 - 4:18pm, snickolas

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DATE:	07-31-2018
SCALE:	1"=30'
DRAWN BY:	SP
APPROVED BY:	ND
DRAWING NO.:	215028

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OVERALL
UTILITY PLAN

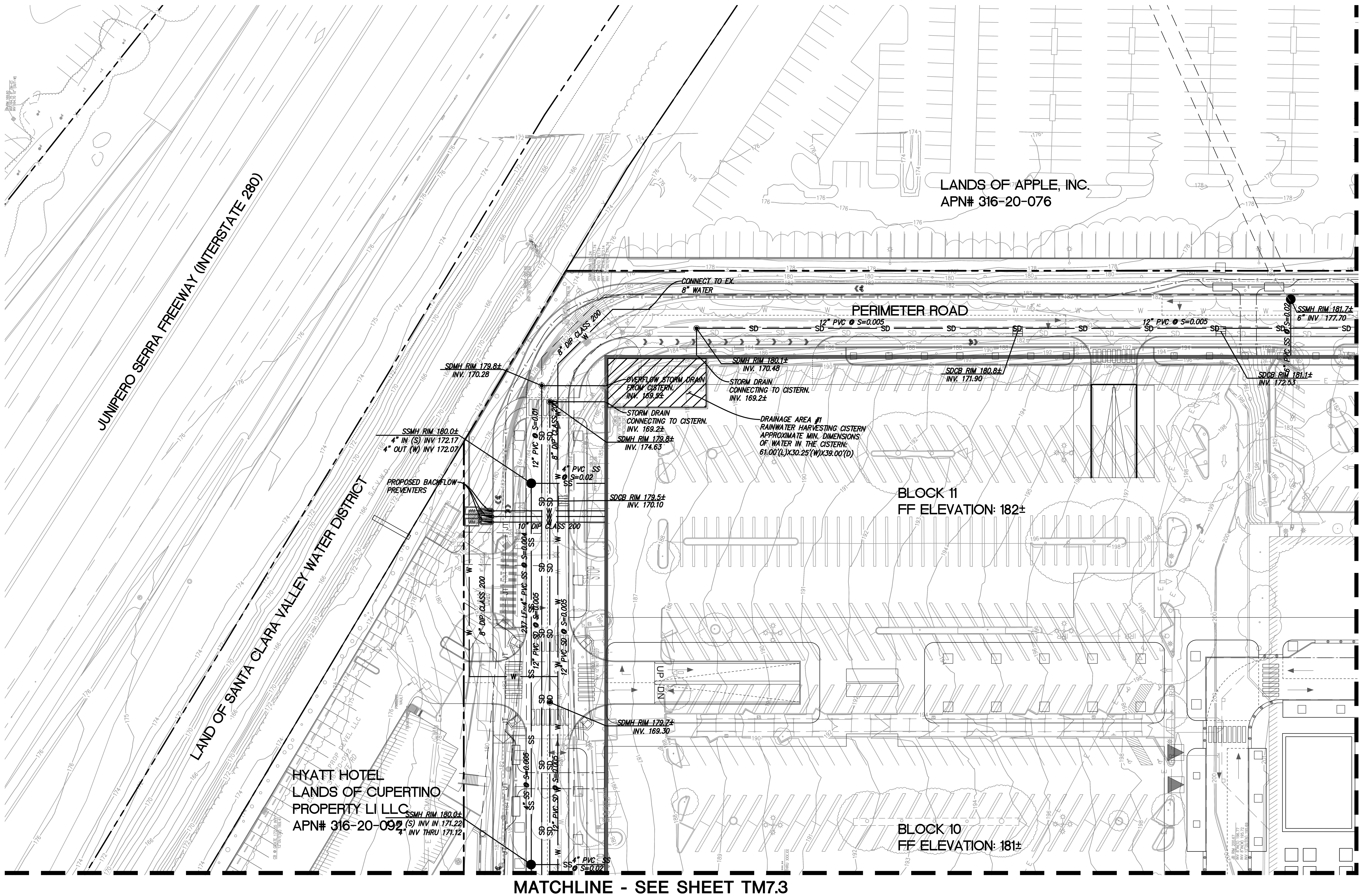
TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET
TM7.0
OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-7 UTILITY PLAN.dwg Date:Aug 20, 2018 - 5:44pm, syasutake

SANDIS SILICON VALLEY

SCALE: 1"=30'



LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- FLOW ARROW
- OVERLAND RELEASE
- WM — WATER METER
- BACKFLOW PREVENTER
- SD — STORM DRAIN LINE
- SS — SANITARY SEWER LINE
- W — WATER LINE
- JT — JOINT TRENCH LINE
- COM — COMMUNICATION LINE
- UNDERGROUND GARAGE LIMIT
- ELECTRICAL VAULT
- UNDERGROUND PAD MOUNTED TRANSFORMER

UTILITY NOTE

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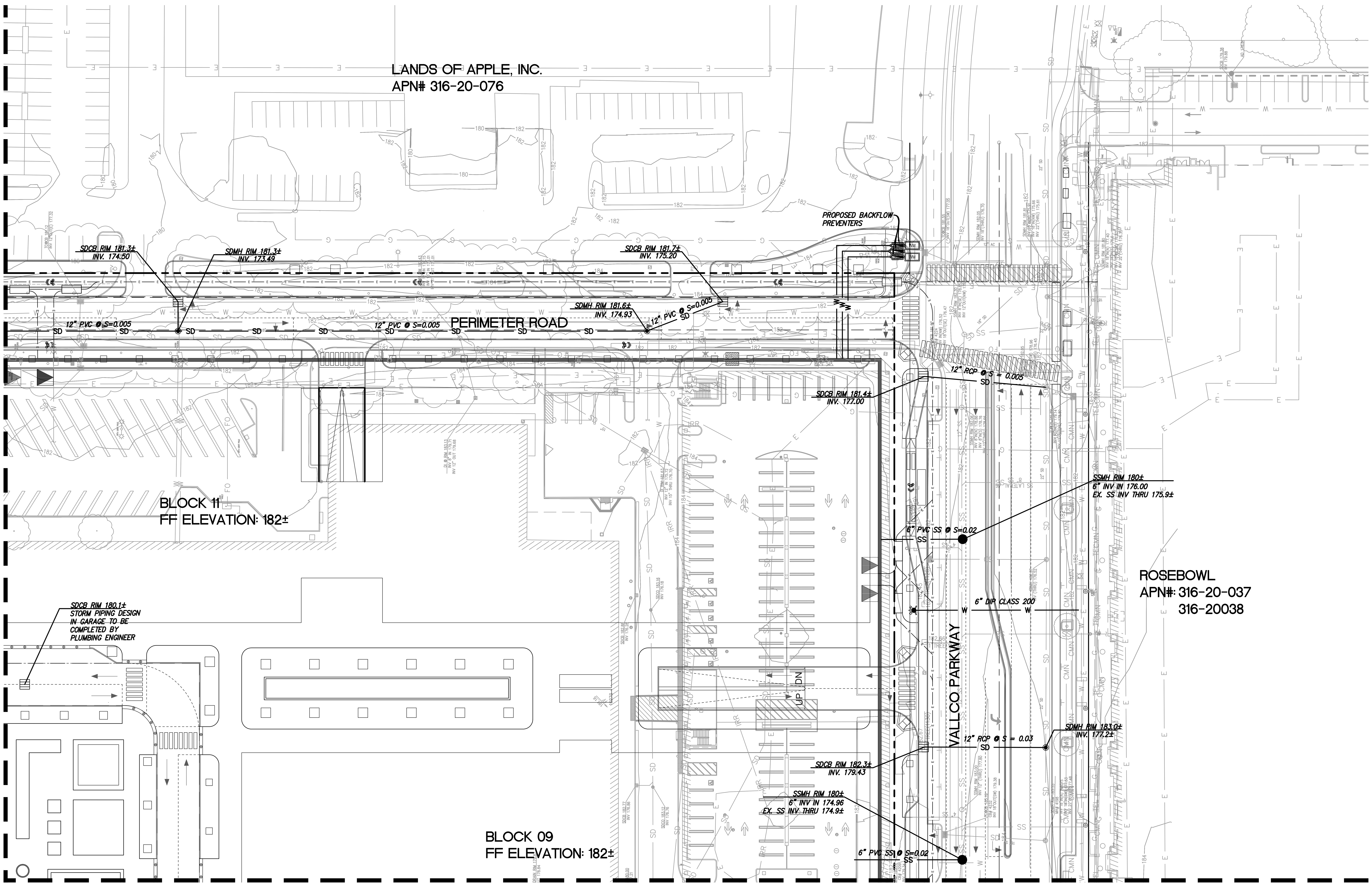
UTILITY PLAN

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET TM7.1 OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-7 UTILITY PLAN.dwg Date:Aug 20, 2018 - 5:44pm, syasutake



SANDIS SILICON VALLEY
SCALE: 1"=30'

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- FLOW ARROW
- OVERLAND RELEASE
- WM — WATER METER
- BACKFLOW PREVENTER
- SD — STORM DRAIN LINE
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MATCHLINE - SEE SHEET TM7.4

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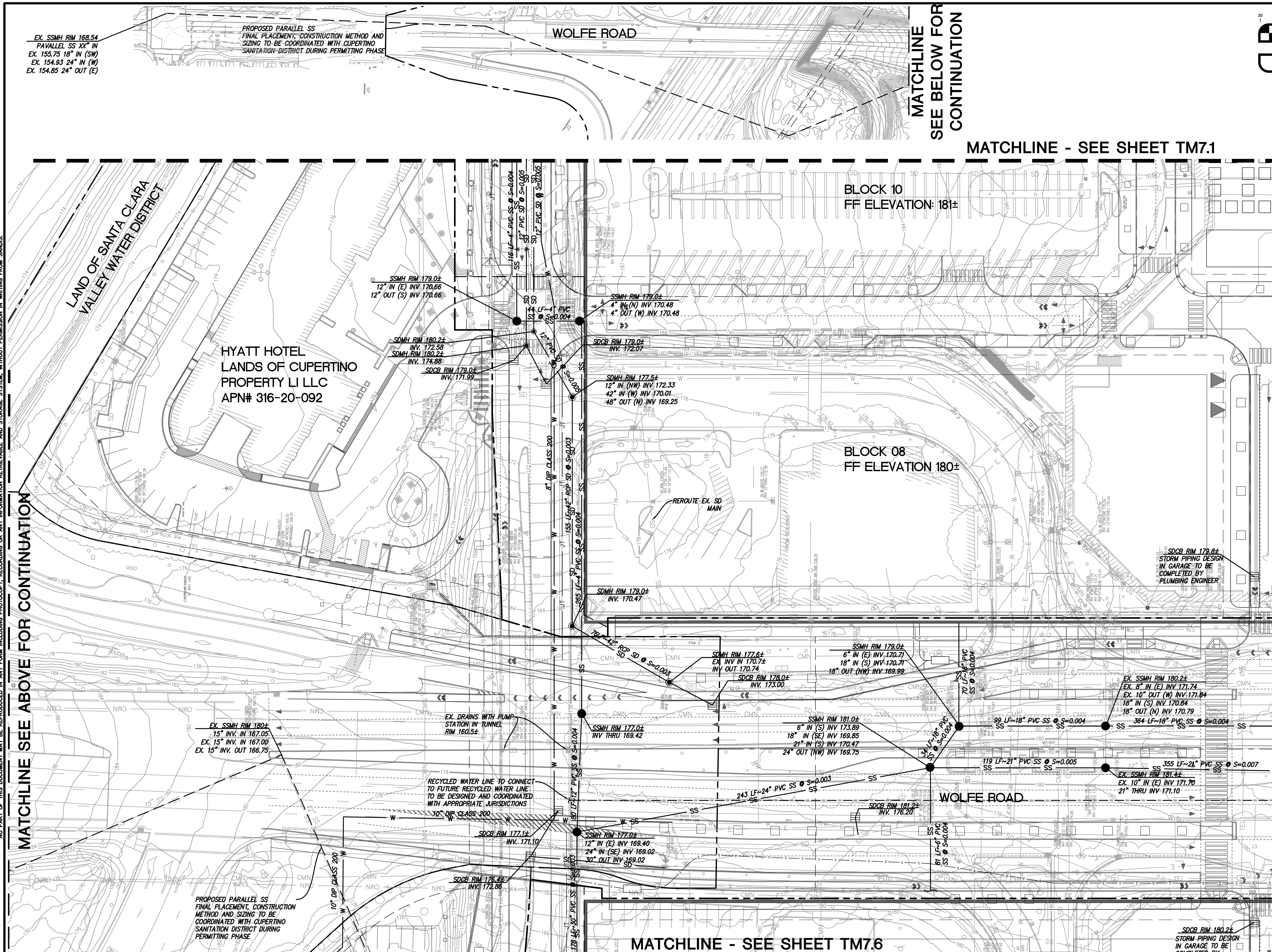
UTILITY PLAN

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET TM7.2 OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-7 UTILITY PLAN.dwg Date: Aug 20, 2018 - 5:44pm, syasutake



SANDIS SILICON VALLEY SCALE: 1"=30'

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- FLOW ARROW
- OVERLAND RELEASE
- WATER METER
- BACKFLOW PREVENTER
- SD — STORM DRAIN LINE
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UTILITY PLAN

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

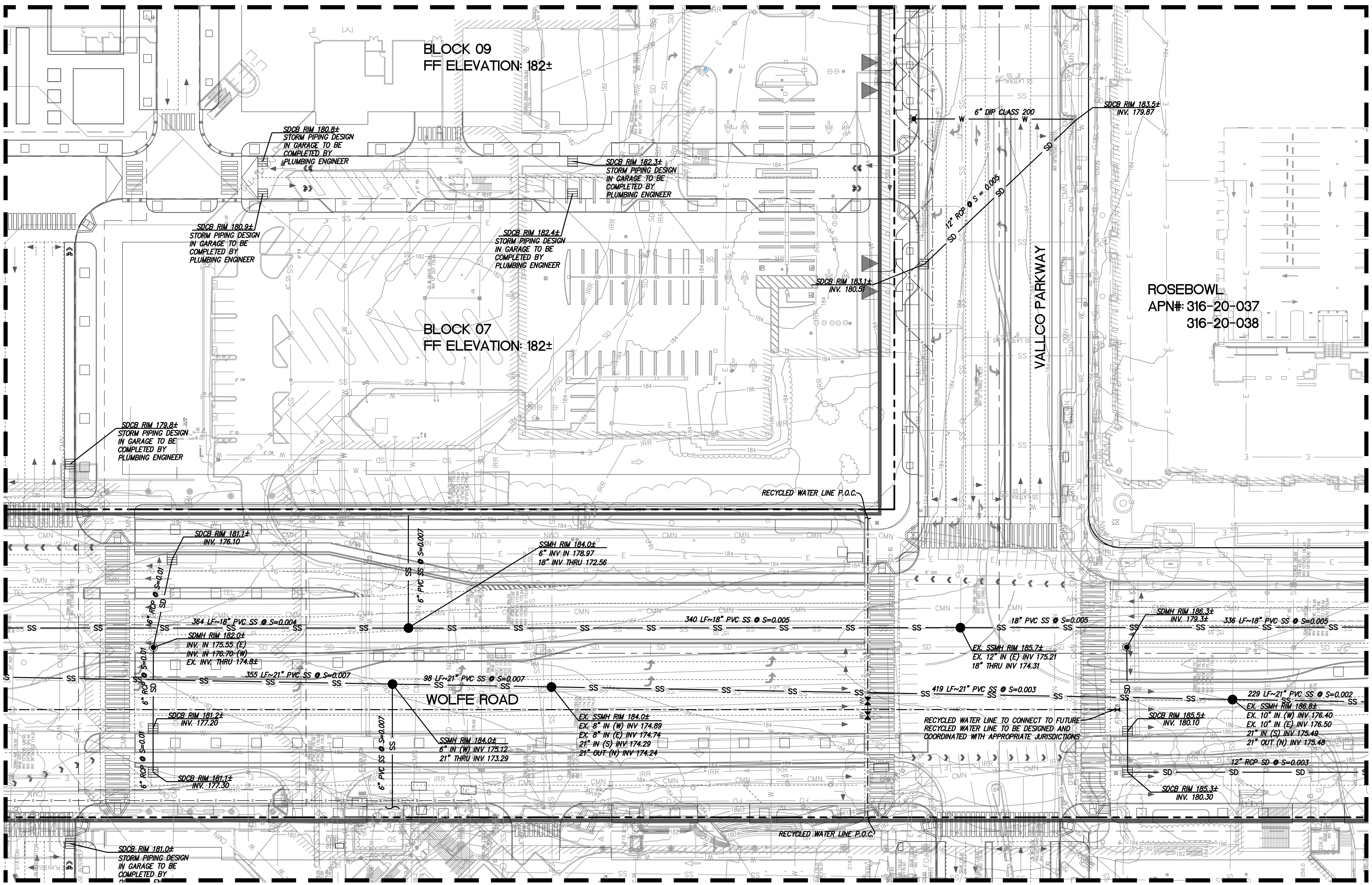
SHEET TM7.3 OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-7 UTILITY PLAN.dwg Date: Aug 20, 2018 - 5:45pm, syasutake

SANDIS SILICON VALLEY

SCALE: 1"=30'

MATCHLINE - SEE SHEET TM7.2



MATCHLINE - SEE SHEET TM7.3

MATCHLINE - SEE SHEET TM7.5

MATCHLINE - SEE SHEET TM7.7

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- FLOW ARROW
- OVERLAND RELEASE
- WM — WATER METER
- BACKFLOW PREVENTER
- SD — STORM DRAIN LINE
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UTILITY NOTE

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DRAWING NO.:	215028

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CHAD J. BROWNING
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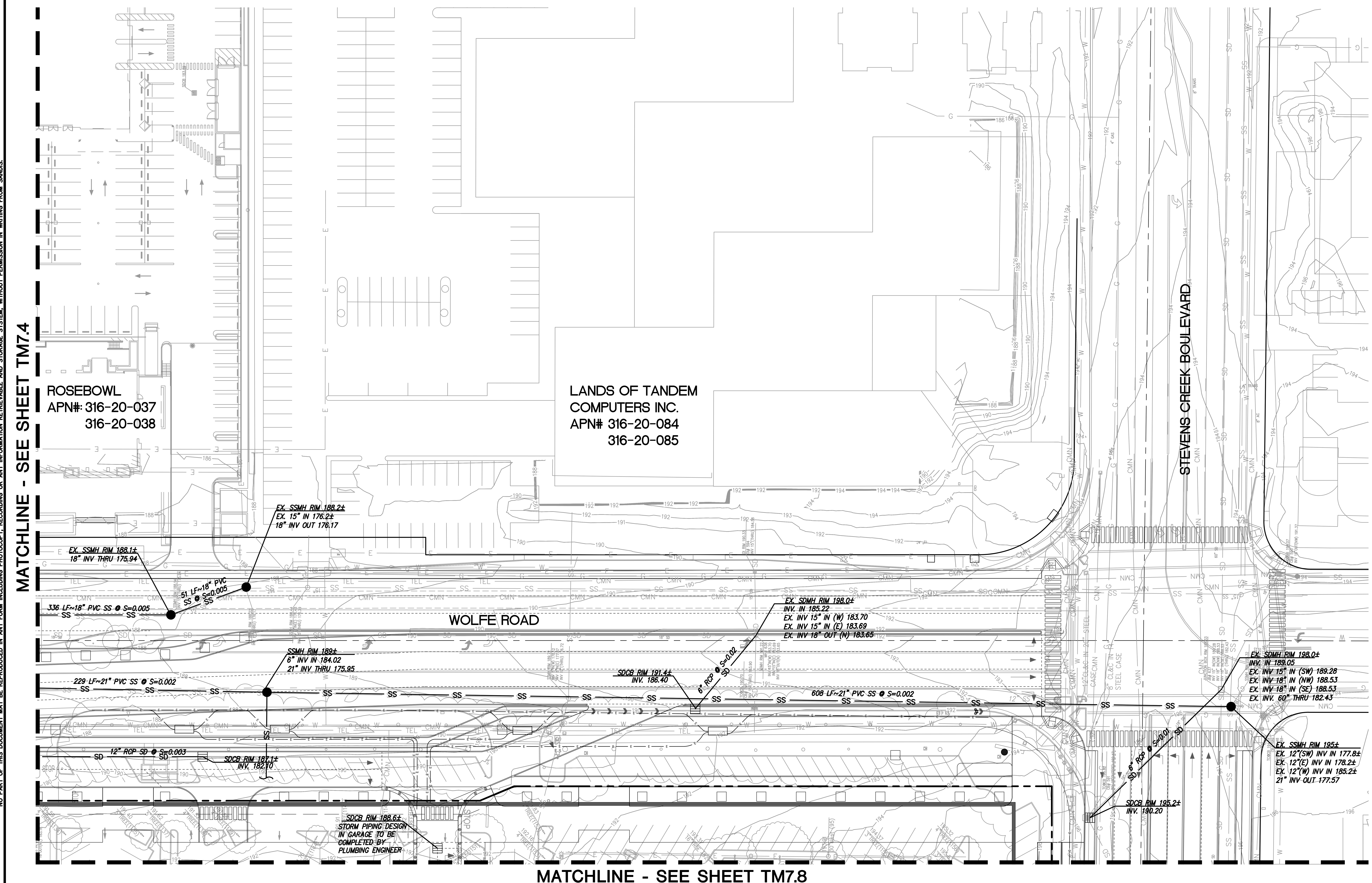
UTILITY PLAN

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET TM7.4 OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-7 UTILITY PLAN.dwg Date: Aug 20, 2018 - 5:45pm, syasutake

SANDIS SILICON VALLEY SCALE: 1"=30'



LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	STREET CENTERLINE
	EASEMENT LINE
	FLOW ARROW
	OVERLAND RELEASE
WM	WATER METER
	BACKFLOW PREVENTER
SD	STORM DRAIN LINE
SS	SANITARY SEWER LINE
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DATE: 07-31-2018
SCALE: 1"=30'
DRAWN BY: SP
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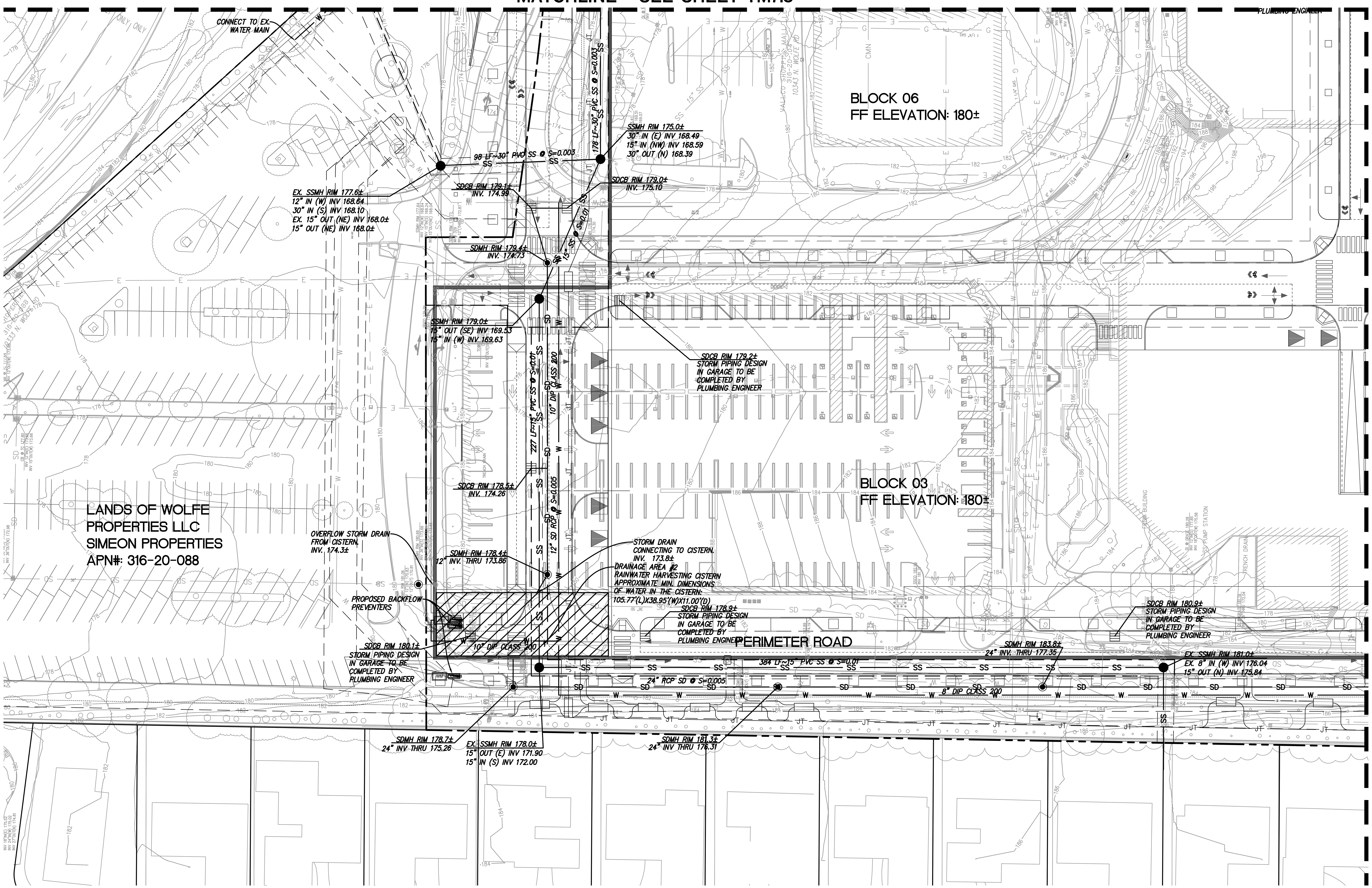
UTILITY PLAN

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET TM7.5 OF 73 SHEETS

SANDIS SILICON VALLEY SCALE: 1"=30'

MATCHLINE - SEE SHEET TM7.3



MATCHLINE - SEE SHEET TM7.7

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- FLOW ARROW
- OVERLAND RELEASE
- WM WATER METER
- BACKFLOW PREVENTER
- SD STORM DRAIN LINE
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DATE: 07-31-2018
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UTILITY PLAN

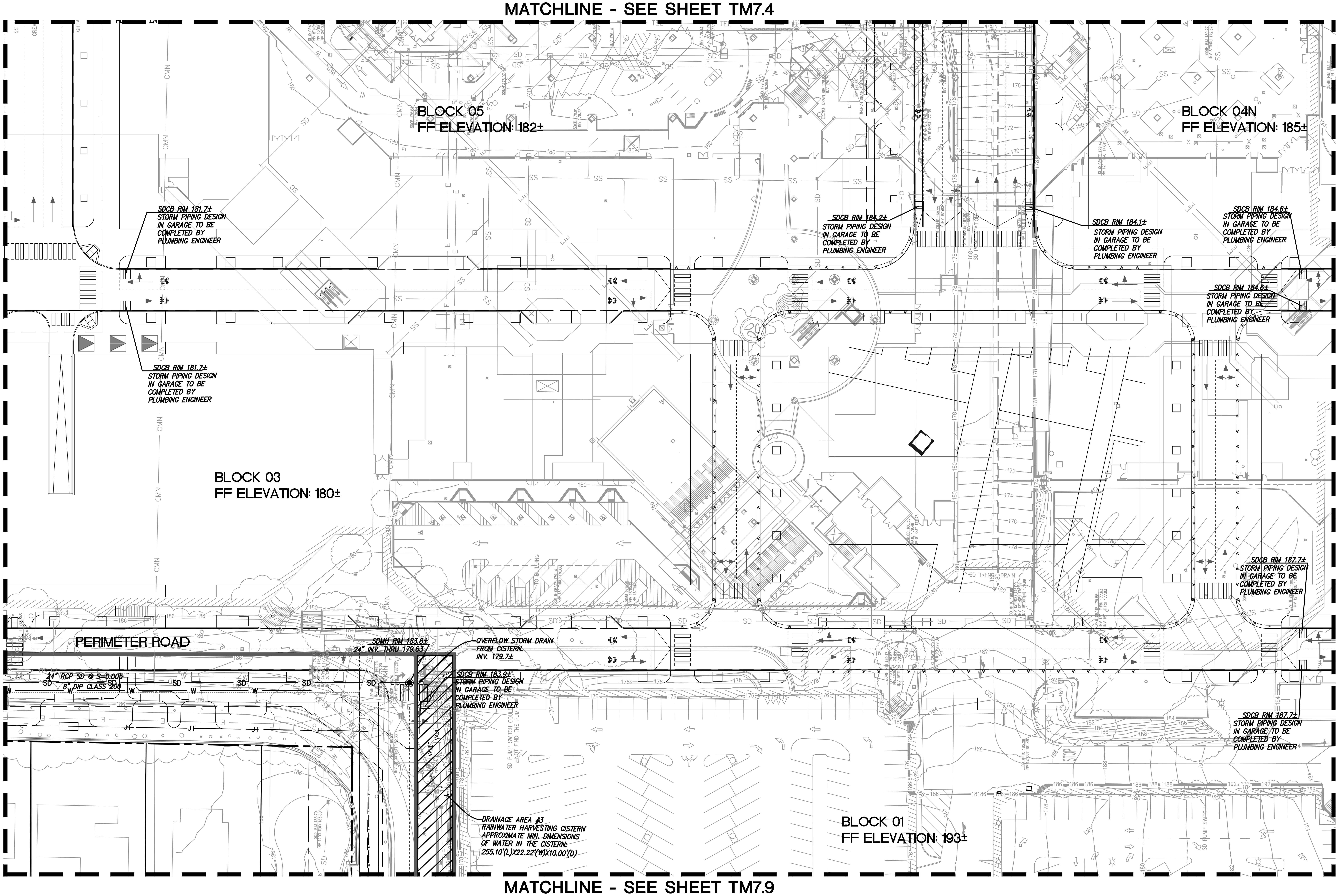
TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET TM7.6 OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-7 UTILITY PLAN.dwg Date: Aug 20, 2018 - 5:46pm, syasutake

SANDIS SILICON VALLEY

SCALE: 1"=30'



LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
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- EASEMENT LINE
- FLOW ARROW
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- WM — WATER METER
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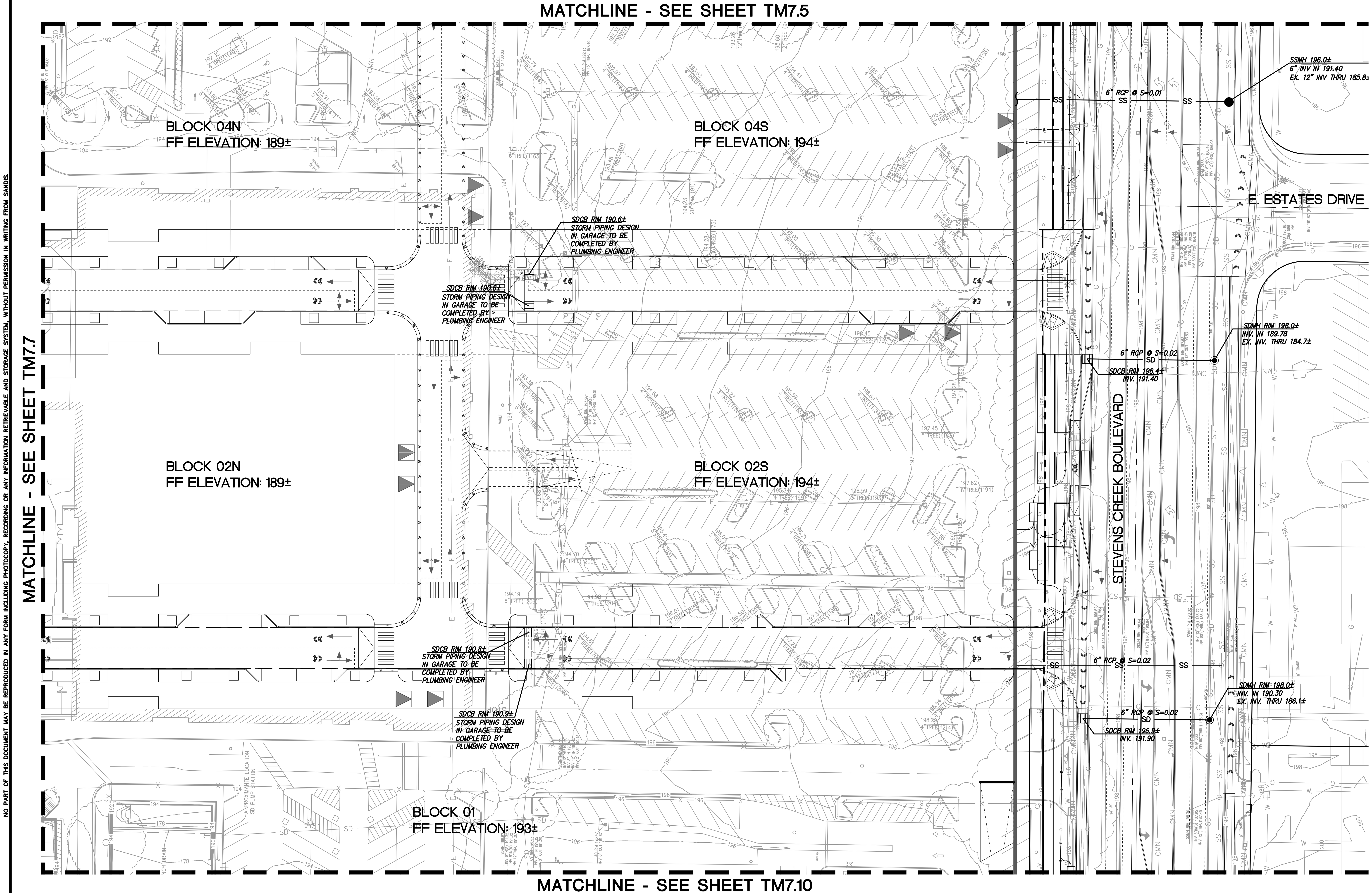
UTILITY PLAN

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET TM7.7 OF 73 SHEETS

SANDIS SILICON VALLEY SCALE: 1"=30'



LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	STREET CENTERLINE
	EASEMENT LINE
	FLOW ARROW
	OVERLAND RELEASE
WM	WATER METER
	BACKFLOW PREVENTER
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DRAWING NO.: 215028

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CHAD J. BROWNING
R.C.E. NO. 68315, EXPIRES 9-30-19

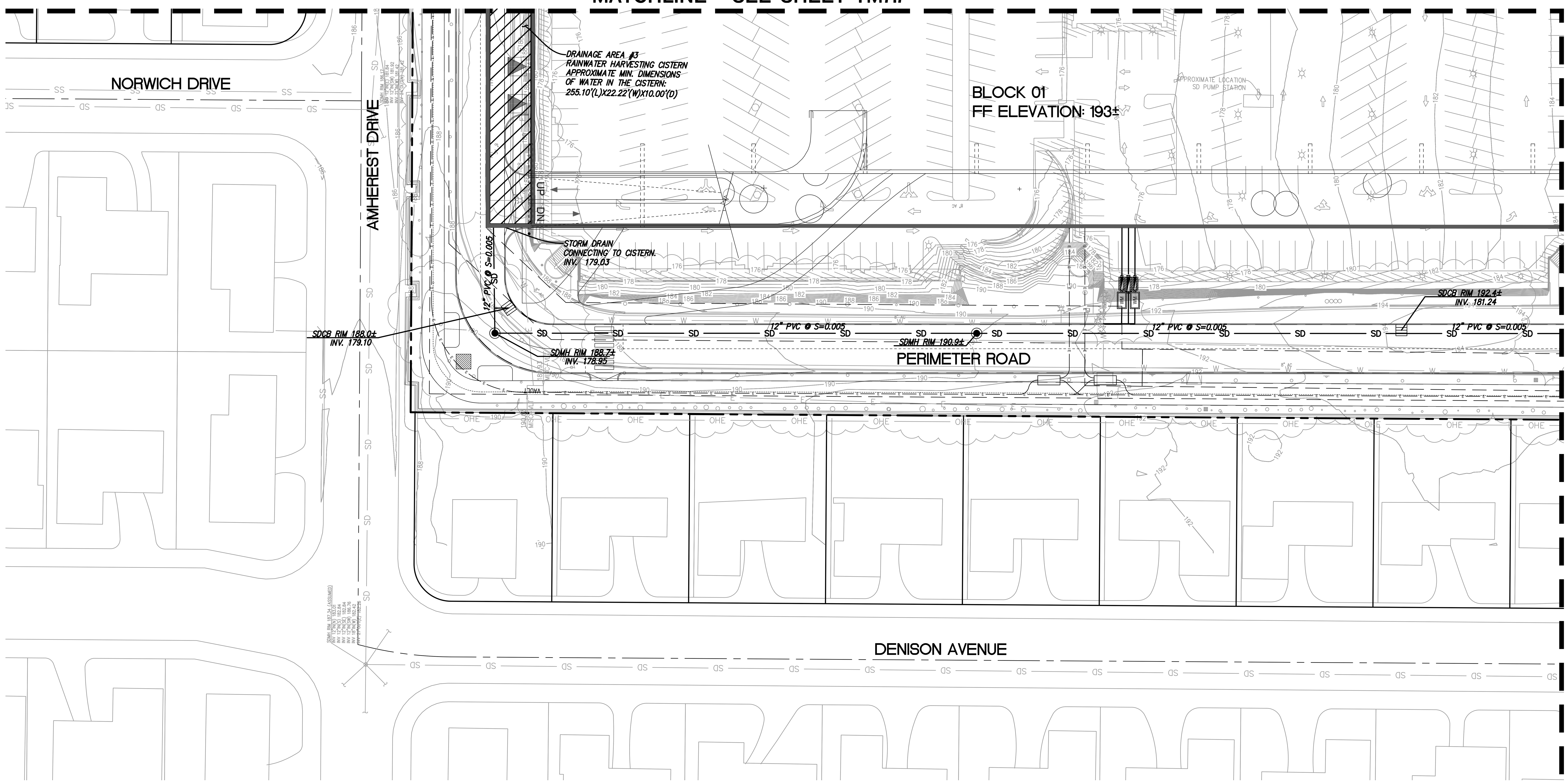
No.	REVISION/ISSUE	DATE	BY
REV-1	SB-35 APPLICATION REVISIONS	08/22/2018	ND

UTILITY PLAN

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET TM7.8 OF 73 SHEETS

File: S:\215028\(4) ENGINEERING\(2) PLAN SETS\(3) SHEET SET\TENTATIVE MAP\TM-7 UTILITY PLAN.dwg Date: Aug 20, 2018 - 5:47pm, syasutake



LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	STREET CENTERLINE
	EASEMENT LINE
	FLOW ARROW
	OVERLAND RELEASE
WM	WATER METER
	BACKFLOW PREVENTER
SD	STORM DRAIN LINE
SS	SANITARY SEWER LINE
W	WATER LINE
JT	JOINT TRENCH LINE
COM	COMMUNICATION LINE
	UNDERGROUND GARAGE LIMIT
	ELECTRICAL VAULT
	UNDERGROUND PAD MOUNTED TRANSFORMER

UTILITY NOTE

1. TRANSFORMERS TO BE LOCATED BELOW GROUND IN VAULTS.
2. FINAL LOCATIONS, SIZES, NUMBER AND OTHER DETAILS TO BE DETERMINED AT A LATER DATE IN CONSULTATION WITH THE CITY'S PUBLIC WORKS DEPARTMENT AND OTHER PERMITTING AUTHORITIES SUCH AS PG&E.
3. ALL STORM DRAINAGE THAT FALLS ON THE GREEN ROOF AND OVER PODIUM WILL BE ROUTED THROUGH THE GARAGE TO THE PROPOSED CISTERNS. THE SIZE AND NUMBER OF CISTERNS SHOWN ON THE PLANS IS SCHEMATIC IN NATURE AND WILL BE ADJUSTED AS NECESSARY IN CONSULTATION WITH THE PLUMBING ENGINEER.
4. EVERY DOMESTIC WATER SERVICES WILL HAVE AN INDIVIDUAL SUBMETERS LOCATED WITHIN THE PODIUM FOOTPRINT. EXACT LOCATIONS LOCATIONS WILL BE CONFIRMED IN CONSULTATION WITH THE PLUMBING ENGINEER.

SANDIS SILICON VALLEY
SCALE: 1"=30'

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SILICON VALLEY TRI-VALLEY CENTRAL VALLEY SACRAMENTO EAST BAY/SF

DATE: 07-31-2018
SCALE: 1"=30'
DRAWN BY: SP
APPROVED BY: ND
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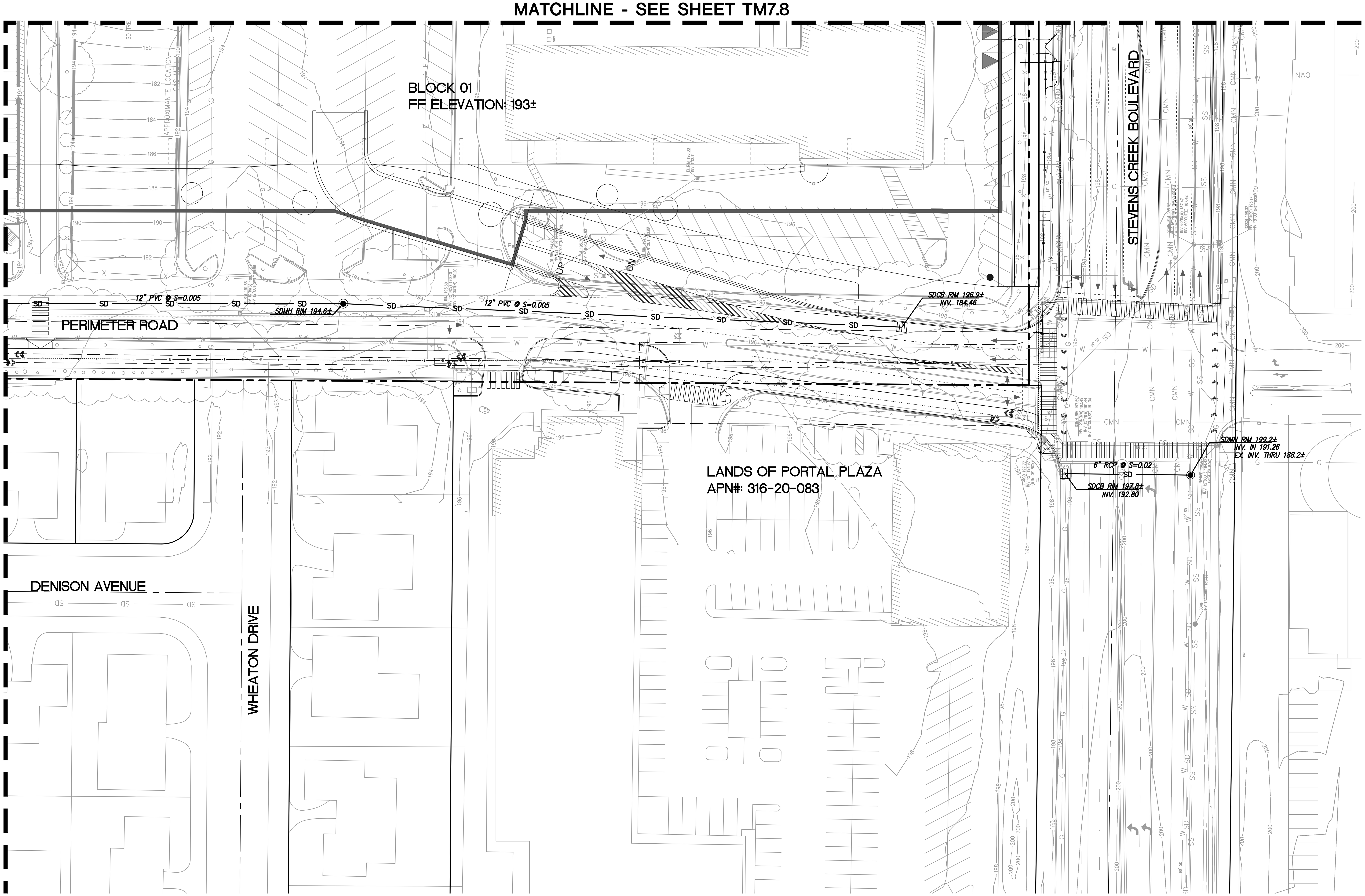

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- FLOW ARROW
- OVERLAND RELEASE
- WM WATER METER
- BACKFLOW PREVENTER
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UTILITY PLAN

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SHEET TM7.10 OF 73 SHEETS

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LEGEND

- PROPERTY LINE
- STREET LEVEL PLAN – BUILDING
- STREET LEVEL PLAN – CURB
- UNDERGROUND PARKING
- DRAINAGE BOUNDARY LINE
- PROPOSED GREEN ROOF – SELF TREATING AREA
- IMPERVIOUS AREA ON GREEN ROOF, BUILDING PODIUM OR NATURAL GRADE – COLLECTED AND SENT TO CAPTURE
- LANDSCAPE AREA NOT ON PODIUM STRUCTURE – SELF TREATING AREA/ CAPTURE
- LANDSCAPE AREA ON PODIUM STRUCTURE – SELF TREATING AREA/ CAPTURE
- PROPOSED CISTERNS IN BASEMENT

HYDROMODIFICATION NOTE:

THIS SITE ADDS/REPLACES MORE THE 1 ACRE OF IMPERVIOUS AREA, BUT IS EXEMPT FROM HYDROMODIFICATION REQUIREMENTS BECAUSE THE ENTIRE SITE IS LOCATED IN A CATCHMENT OR SUBWATERSHED THAT IS DETERMINED TO BE GREATER THAN 65% IMPERVIOUS PER THE 2010 HMP APPLICABILITY MAP, SHOWN ON SHEET C-404.

C.3 STORMWATER TREATMENT COMPLIANCE

1. THE MAJORITY OF THE SITE IS COVERED BY A GREEN ROOF. THIS PORTION OF THE SITE WILL BE SELF TREATING AND STORM WATER WILL NOT NEED TO BE DIRECTED TO OTHER STORM WATER TREATMENT FACILITIES.
2. THE REMAINDER OF THE SITE, IS OPEN TO THE SKY WITH NO GREEN ROOF COVERING IT. THIS POTION OF THE SITE IS EITHER ROADWAY/WALKWAY ON TOP OF PODIUM OR ROADWAY OVER NATURAL GRADE. THIS SECTION OF THE SITE WILL BE SENT TO CISTERNS FOR RAINWATER HARVESTING.
3. TREE CREDITS WILL BE USED AS APPROPRIATE FOR BOTH PROPOSED TREES ON THE PODIUM AND FOR EXISTING TREES TO REMAIN WITHIN 25' OF IMPERVIOUS SURFACES.

TOTAL SITE DRAINAGE AREAS		
PROPOSED GREEN ROOF – SELF TREATING AREA	16.756 ACRES	34%
IMPERVIOUS AREA ON GREEN ROOF, BUILDING PODIUM OR NATURAL GRADE – COLLECTED AND SENT TO CAPTURE	28.636 ACRES	58%
LANDSCAPE AREA NOT ON PODIUM STRUCTURE – SELF TREATING AREA/ CAPTURE	1.324 ACRES	3%
LANDSCAPE AREA ON PODIUM STRUCTURE – SELF TREATING AREA/ CAPTURE	2.415 ACRES	5%

*IMPERVIOUS AREA IN WOLFE RIGHT-OF-WAY NOT INCLUDED IN CALCULATIONS

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STORMWATER TREATMENT PLAN

TENTATIVE SUBDIVISION MAP
VALLCO TOWN CENTER
CUPERTINO CALIFORNIA

SHEET TM8.0 OF 73 SHEETS

CISTERN SIZING CALCULATIONS BY DRAINAGE AREAS:

Drainage Area 1 (DA-1) Volume Based Treatment Measures
using the URQM Approach

Step 1.	Drainage Area for BMP:	17.18 acres
Step 2. a.	Impervious Area:	12.10 acres
b.	Impervious ratio: (i)	70.4%
Step 3.	Watershed runoff Coefficient Cw = ($Cw = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$)	0.498
Step 4.	Mean Annual Precipitation	16 inches
Step 5.	Closest Rain Gage	San Jose Airport

Gage	MAP_{gage}	$(P_6)_{gage}$ (in)
San Jose Airport	13.9	0.512
Palo Alto	13.7	0.522
Morgan Hill	19.5	0.76

	MAP_{gage}	13.9
	$(P_6)_{gage}$	0.512
Step 6.	Mean Storm Event Precipitation Depth $(P_6)_{site}$: $(P_6)_{site} = (P_6)_{gage} \times (MAP_{site})/(MAP_{gage})$	0.589 inches
Step 7.	"a" regression constant	

a=	48 hour	1.963	48 hour
a=	24 hour	1.582	a= 1.963
a=	12 hour	1.312	

Step 8.	Maximized Storage Area $P_o = (a \times Cw) \times P_6$	0.576 inches
Step 9.	Volume of Runoff to be Treated: Design Volume = Po X A X 1ft/12in	0.824 acre-ft
		35,914 cuft
Step 10.	Double Volume for Back to Back Storm	1.649 acre-ft
		71,829 cuft
Step 11.	Size Cistern	
	Length =	61.00 ft
	Width =	30.25 ft
	Height =	39 ft
	Total Cistern Storage Volume	71,965 cuft
		538,334 gal

Drainage Area 2 (DA-2) Volume Based Treatment Measures
using the URQM Approach

Step 1.	Drainage Area for BMP:	11.16 acres
Step 2. a.	Impervious Area:	7.31 acres
b.	Impervious ratio: (i)	65.5%
Step 3.	Watershed runoff Coefficient Cw = ($Cw = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$)	0.454
Step 4.	Mean Annual Precipitation	16 inches
Step 5.	Closest Rain Gage	San Jose Airport

Gage	MAP_{gage}	$(P_6)_{gage}$ (in)
San Jose Airport	13.9	0.512
Palo Alto	13.7	0.522
Morgan Hill	19.5	0.76

	MAP_{gage}	13.9
	$(P_6)_{gage}$	0.512
Step 6.	Mean Storm Event Precipitation Depth $(P_6)_{site}$: $(P_6)_{site} = (P_6)_{gage} \times (MAP_{site})/(MAP_{gage})$	0.589 inches
Step 7.	"a" regression constant	

a=	48 hour	1.963	48 hour
a=	24 hour	1.582	a= 1.963
a=	12 hour	1.312	

Step 8.	Maximized Storage Area $P_o = (a \times Cw) \times P_6$	0.525 inches
Step 9.	Volume of Runoff to be Treated: Design Volume = Po X A X 1ft/12in	0.488 acre-ft
		21,254 cuft
Step 10.	Double Volume for Back to Back Storm	0.976 acre-ft
		42,508 cuft
Step 11.	Size Cistern	
	Length =	105.77 ft
	Width =	38.95 ft
	Height =	11 ft
	Total Cistern Storage Volume	45,317 cuft
		338,996 gal

Drainage Area 3 (DA-3) Volume Based Treatment Measures
using the URQM Approach

Step 1.	Drainage Area for BMP:	20.80 acres
Step 2. a.	Impervious Area:	9.23 acres
b.	Impervious ratio: (i)	44.4%
Step 3.	Watershed runoff Coefficient Cw = ($Cw = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$)	0.305
Step 4.	Mean Annual Precipitation	16 inches
Step 5.	Closest Rain Gage	San Jose Airport

Gage	MAP_{gage}	$(P_6)_{gage}$ (in)
San Jose Airport	13.9	0.512
Palo Alto	13.7	0.522
Morgan Hill	19.5	0.76

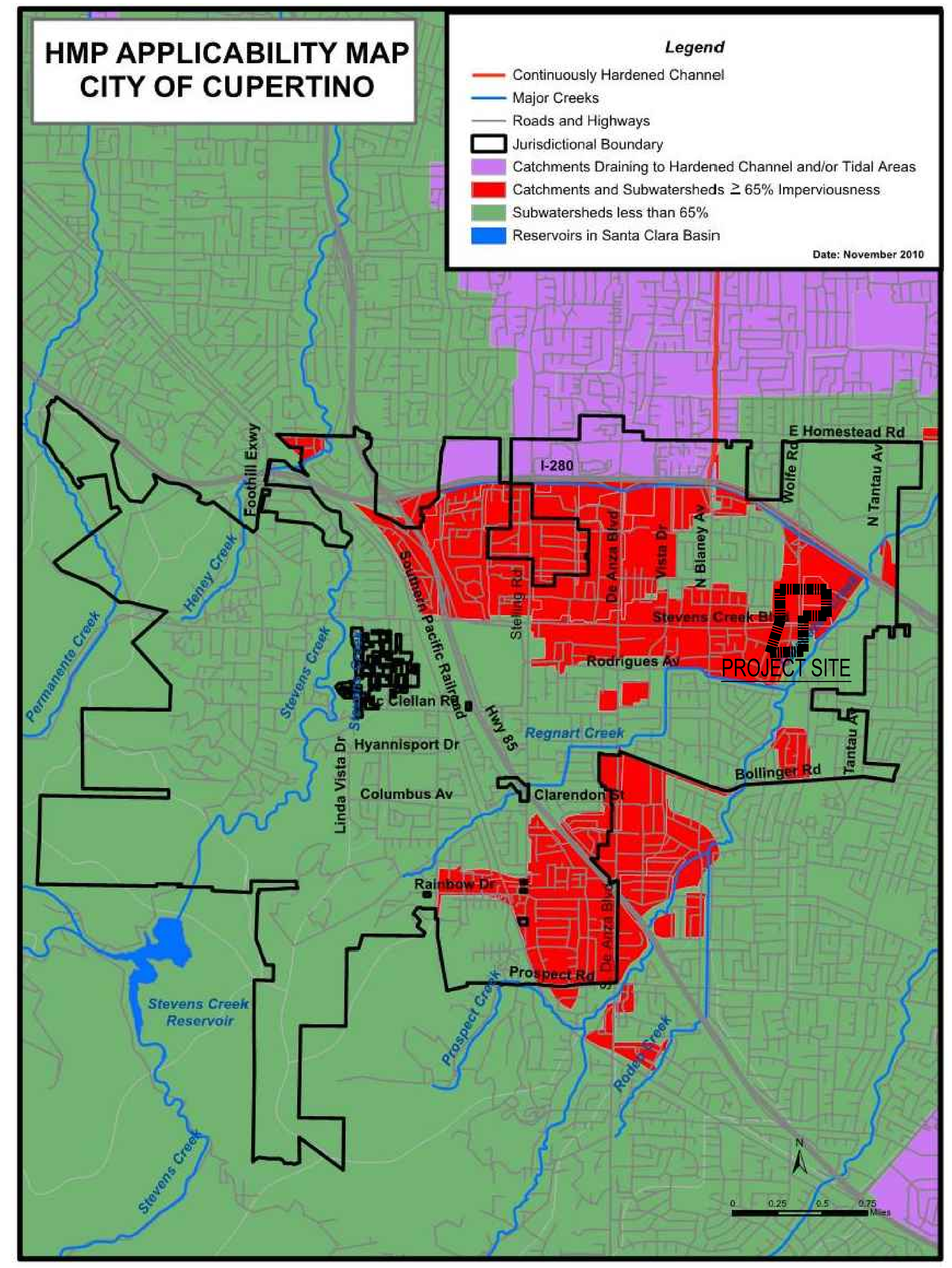
	MAP_{gage}	13.9
	$(P_6)_{gage}$	0.512
Step 6.	Mean Storm Event Precipitation Depth $(P_6)_{site}$: $(P_6)_{site} = (P_6)_{gage} \times (MAP_{site})/(MAP_{gage})$	0.589 inches
Step 7.	"a" regression constant	

a=	48 hour	1.963	48 hour
a=	24 hour	1.582	a= 1.963
a=	12 hour	1.312	

Step 8.	Maximized Storage Area $P_o = (a \times Cw) \times P_6$	0.353 inches
Step 9.	Volume of Runoff to be Treated: Design Volume = Po X A X 1ft/12in	0.611 acre-ft
		26,626 cuft
Step 10.	Double Volume for Back to Back Storm	1.223 acre-ft
		53,252 cuft
Step 11.	Size Cistern	
	Length =	255.10 ft
	Width =	22.22 ft
	Height =	10 ft
	Total Cistern Storage Volume	56,683 cuft
		424,020 gal

NOTE:

FOR THE PURPOSE OF THIS STORMWATER MANAGEMENT PLAN, THE SITE HAS BEEN LOOKED AT AS THREE DRAINAGE AREAS. RAINWATER CISTERNS WILL BE DESIGNED IN MORE DEPTH AND COORDINATED WITH THE PLUMBING ENGINEER TO WORK WITH CONSTRUCTION PHASING, THE SITE SPANNING PUBLIC RIGHT OF WAY AND IRRIGATION AND TOILET DEMANDS. THESE CISTERNS WILL BE SIZED INDIVIDUALLY BASED THEIR RESPECTIVE DRAINAGE AREAS.



HYDROMODIFICATION MAP

N.T.S.

NOTE:

PROJECT IS EXEMPT FROM HYDROMODIFICATION BECAUSE IT IS LOCATED IN A WATERSHED THAT IS GREATER THAN 65% IMPERVIOUS.

PRE AND POST DEVELOPMENT STORM DRAINAGE RUNOFF ANALYSIS:

CALCULATION OF WEIGHTED "C", C_W

The following equation is used to compute the weighted "c":

$$C_w = \frac{C_pA_p + C_pA_p + C_iA_i}{A_T}$$

C_w = Weighted runoff coefficient for drainage area A
C_i = Impervious Area Runoff Coefficient (c varies, see below)
C_p = Pervious Area Runoff coefficient (c varies, see below)

A_i = Impervious Drainage Area (acres)
A_p = Pervious Drainage Area (acres)
A_T = Total Drainage Area (acres)

Site Pre-Development Weighted "C"

Pervious Area =	0.87 ac	c = 0.30
Impervious Area =	49.95 ac	c = 0.90
Total Area =	50.82 ac	

$C_{w(pre)}$ = **0.89**

Site Post-Development Weighted "C"

Landscape Area =	20.49 ac	c = 0.30
Impervious Area =	28.64 ac	c = 0.90
Total Area =	49.13 ac	

$C_{w(post)}$ = **0.65**

CALCULATION OF RAINFALL INTENSITY, i

i = Intensity (in/hr) based on NOAA's PDS-based precipitation frequency estimates for Cupertino

TC = Time of Concentration (minutes), assumed to be 10 minutes

Calculation of 10-Year Rainfall Intensity

TC_{pre} =	10.00 minutes	TC_{post} =	10.00 minutes
$i_{10year(pre)}$	**1.76** in/hr	$i_{10year(post)}$	**1.76** in/hr

Calculation of 25-Year Rainfall Intensity

TC_{pre} =	10.00 minutes	TC_{post} =	10.00 minutes
$i_{10year(pre)}$	**2.14** in/hr	$i_{10year(post)}$	**2.14** in/hr

Calculation of 100-Year Rainfall Intensity

TC_{pre} =	10.00 minutes	TC_{post} =	10.00 minutes
$i_{100year(pre)}$	**2.74** in/hr	$i_{100year(post}$	**2.74** in/hr

CALCULATION OF 10-YEAR PEAK FLOW AND WATER QUALITY FLOW, Q

Use the Rational Equation for Peak Flow Calcuation:

$$Q = C_w * i * A_i$$

Q = Peak Flow (cfs) for drainage area "A"
Cw = Weighted runoff coefficient for drainage area A
i = Intensity (in/hr) based on NOAA's PDS-based precipitation frequency estimates for Cupertino

A_T = Total Drainage Area (acres)

10-Year Pre-Development Rainfall Peak Flow

C_w =	0.89	
i =	1.8 in/hr	
A_T =	49.13 acres	
$Q_{pre-10year}$	= 0.89 * 1.8 * 49.13	**76.93 cfs**

10-Year Post-Development Rainfall Peak Flow

C_w =	0.65	
i =	1.8 in/hr	
A_T =	49.13 acres	
$Q_{post-10year}$	= 0.65 * 1.8 * 49.13	**56.18 cfs**

CALCULATION OF 25-YEAR PEAK FLOW AND WATER QUALITY FLOW, Q

Use the Rational Equation for Peak Flow Calcuation:

$$Q = C_w * i * A_i$$

Q = Peak Flow (cfs) for drainage area "A"
Cw = Weighted runoff coefficient for drainage area A
i = Intensity (in/hr) based on NOAA's PDS-based precipitation frequency estimates for Cupertino

A_T = Total Drainage Area (acres)

25-Year Pre-Development Rainfall Peak Flow

C_w =	0.89	
i =	2.1 in/hr	
A_T =	49.13 acres	
$Q_{pre-10year}$	= 0.89 * 2.1 * 49.13	**93.54 cfs**

25-Year Post-Development Rainfall Peak Flow

C_w =	0.65	
i =	2.1 in/hr	
A_T =	49.13 acres	
$Q_{post-10year}$	= 0.65 * 2.1 * 49.13	**68.31 cfs**

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STORMWATER TREATMENT CALCULATIONS

TENTATIVE SUBDIVISION MAP
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