SITE DEVELOPMENT PERMIT FOR
906, 930, 940, & 950 MONROE STREET. SANTA CLARA, CA 95050

DESIGN PROFESSIONALS:

ARCHITECT:

SALVATORE CARUSO DESIGN CORPORATION
980 EL CAMINO REAL, SUITE 200
SANTA CLARA, CA 95050
PHONE: (408) 998-4087
FAX: (408) 998-4088

CIVIL ENGINEER:

BKF ENGINEERS

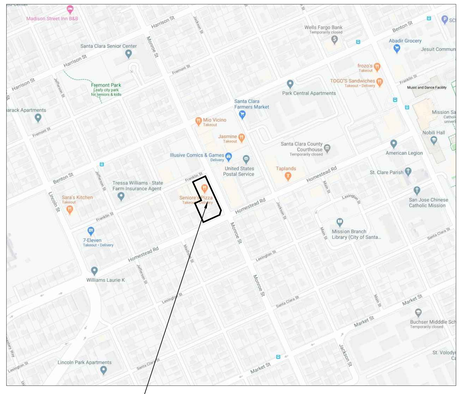
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
PHONE: (650) 482-6300

OWNER:

LAMB PARTNERS, LLC
535 MIDDLEFIELD ROAD, SUITE 190
MENLO PARK, CA 94025
PHONE: (650) 208-4195

PROJECT DESCRIPTION:

RELOCATION OF THE TWO SINGLE FAMILY HOMES LOCATED AT 906 AND 930 MONROE AND DEMOLITION OF THE SMALL RETAIL TO BUILD A NEW 61 UNIT HOUSING PROJECT PLUS GENERAL RETAIL AND RESTAURANT ON THE GROUND FLOOR TO REVITALIZE THE DOWNTOWN PEDESTRIAN EXPERIENCE.



VICINITY MAP

N

APPLICABLE CODES:

PART 1.0, CALIFORNIA ADMINISTRATIVE CODE
PART 2.0, 2019 CALIFORNIA BUILDING CODE (CBC)
PART 2.5, 2019 CALIFORNIA RESIDENTIAL CODE (CRC)
PART 3.0, 2019 CALIFORNIA ELECTRIC CODE (CEC)
PART 4.0, 2019 CALIFORNIA MECHANICAL CODE (CMC)
PART 5.0, 2019 CALIFORNIA PLUMBING CODE
PART 6.0, 2019 CALIFORNIA ENERGY CODE
PART 9.0, 2019 CALIFORNIA FIRE CODE
PART 11.0, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
FHA ACCESSIBLE GUIDELINES USING THE SAFE HARBOR AS PERMITTED PER THE 1998 FHA DESIGN MANUAL WITH ANSI A117.1-1986 PER 1&2 AND 2010 ADA

THE APPLICABLE CODES ARE AS AMENDED BY THE STATE OF **CALIFORNIA** AND THE CITY OF **SANTA CLARA**

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A2.6	5TH FLOOR PLAN
A2.7	ROOF PLAN
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PROJECT DATA

PARCEL NUMBERS	269-20-095, 269-20-087, 269-20-086
TOTAL LOT AREA – GROSS	0.18+0.26+0.51 = 0.87 ACRE (38,217 SF)
TOTAL LOT AREA – NET	38,217 SF
EXISTING USE	SINGLE FAMILY – RETAIL
PROPOSED USE	MIXED-USE (RETAIL AND RESTAURANT, RESIDENTIAL – MULTI-FAMILY)
NO. OF UNITS	61 UNITS
NO. OF STORY	1 LEVEL OF BASEMENT + 5 STORIES (ABOVE THE GRADE)
OCCUPANCY GROUP	R-2 (4 FLOORS OF RESIDENTIAL), A-2 (GROUND LEVEL), S-2 (PARKING), A-3 (ROOFTOP)
TYPE OF CONSTRUCTION	I-A FOR BASEMENT AND GROUND LEVEL, III-A FOR UPPER FLOORS
AUTOMATIC FIRE SPRINKLER	YES
CURRENT ZONING	HT (HISTORIC COMBINING), OG (GENERAL OFFICE), CC (COMMUNITY COMMERCIAL)
GENERAL PLAN PROPOSED ZONING	PD
PROPOSED HEIGHT	74'-0"

RESIDENTIAL PARKING (REQUIRED)				PROVIDED
	one-bedroom	two-bedrooms	three-bedrooms	
2nd floor	3	14	0	
3rd floor	5	15	0	
4th floor	4	15	0	
5th floor	0	4	1	
sub-total	**12**	**48**	**1**	
Total units	**61**			
Parking space required per unit	1.5	2	2	
	18	96	2	
Total residential parking	**116**			116
Required accessible parking space	**3**			3
Van accessible	1			116
accessible	2			
Rerquied total EVCS	**7** (Per CGC table 4.106.4.3.1)			
Van accessible EVCS	1			

RETAIL/RESTAURANT PARKING				
	AREA	REQUIREMENTS	REQUIRED	PROVIDED
Restaurant dinning	3112	1 per 3 seats	35	35
Restaurant kitchen	3112	1 per 200 gross	16	16
General retail	3844	1 per 200 gross	20	20
Total	**71**			71
Required clean air vehicles	**6** (Per CGC table 5.106.5.2)			6
Rerquied total EVCS	**4** (Per CGC table 5.106.5.3.3)			4
Van accessible EVCS	1			1
Required accessible parking space	**3**			3
Van accessible	1			1
accessible	2			2

UNIT TYPES AND AREAS				
FLOOR LEVEL	UNIT TYPE	QUANTITY	#OF UNITS WITH BALCONY	TOTAL # OF UNITS IN FLOOR
SECOND FLOOR	ONE BEDROOM	3	0	17
	TWO BEDROOM	14	11	
3RD FLOOR	ONE BEDROOM	5	0	20
	TWO BEDROOM	15	10	
4TH FLOOR	STUDIO	1	1	19
	ONE BEDROOM	4	3	
	TWO BEDROOM	14	13	
5TH FLOOR	TWO BEDROOM	4	4	5
	THREE BEDROOM	1	1	

TOTAL #OF RESIDENTIAL UNITS	61
TOTAL #OF RESIDENTIAL UNITS WITH BALCONY	43

RESIDENTIAL SPACE CALCULATION BY USE			
FLOOR LEVEL		AREA (SF)	TOTAL IN FLOOR
FIRST FLOOR	LOBBY	927	31,359
	RESTAURNT	6,224	
	GENERAL RETAIL	3,844	
	PARKING	20,364	
SECOND FLOOR	COMMUNITY CENTER AND GYM	2,277	4,481
	OUTDOOR COMMUNITY AREA	2,204	
5TH FLOOR	SEATING AREA	3,322	3,322

AREA CALCULATION PER FLOOR			
FLOOR LEVEL		AREA (SF)	TOTAL IN FLOOR
BASEMENT	PARKING AND EGRESS	33,577	34,393
	MECHANICAL	816	
FIRST FLOOR	LOBBY	927	34,416
	RESTAURNT	6,224	
	GENERAL RETAIL	3,844	
	PARKING AND EGRESS	23,421	
SECOND FLOOR	COMMUNITY CENTER AND GYM	2,263	25,645
	RESIDENTIAL	23,382	
	BALCONY	1,700	
3RD FLOOR	RESIDENTIAL	26,050	26,051
	BALCONY	1,285	
4TH FLOOR	RESIDENTIAL	22,717	22,717
	BALCONY	4,987	
5TH FLOOR	COMMON OUTDOOR AREA	3,322	3,322
	RESIDENTIAL	9,460	9,460
	BALCONY	3,183	

TOTAL RESIDENTIAL AREA	81,609
TOTAL PRIVATE BALCONY AREA	11,155
TOTAL BUILDING AREA (NO BALCONY)	156,004

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SALVATORE CARUSO DESIGN CORPORATION
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TEL. No. (408) 998-4087 • FAX. No. (408) 998-4088

PROJECT :

SANTA CLARA DOWNTOWN
906,930,940,950 MONROE ST
SANTA CLARA, CA 95050

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SHEET NAME :

COVER SHEET

REVISIONS	BY

DRAWN:
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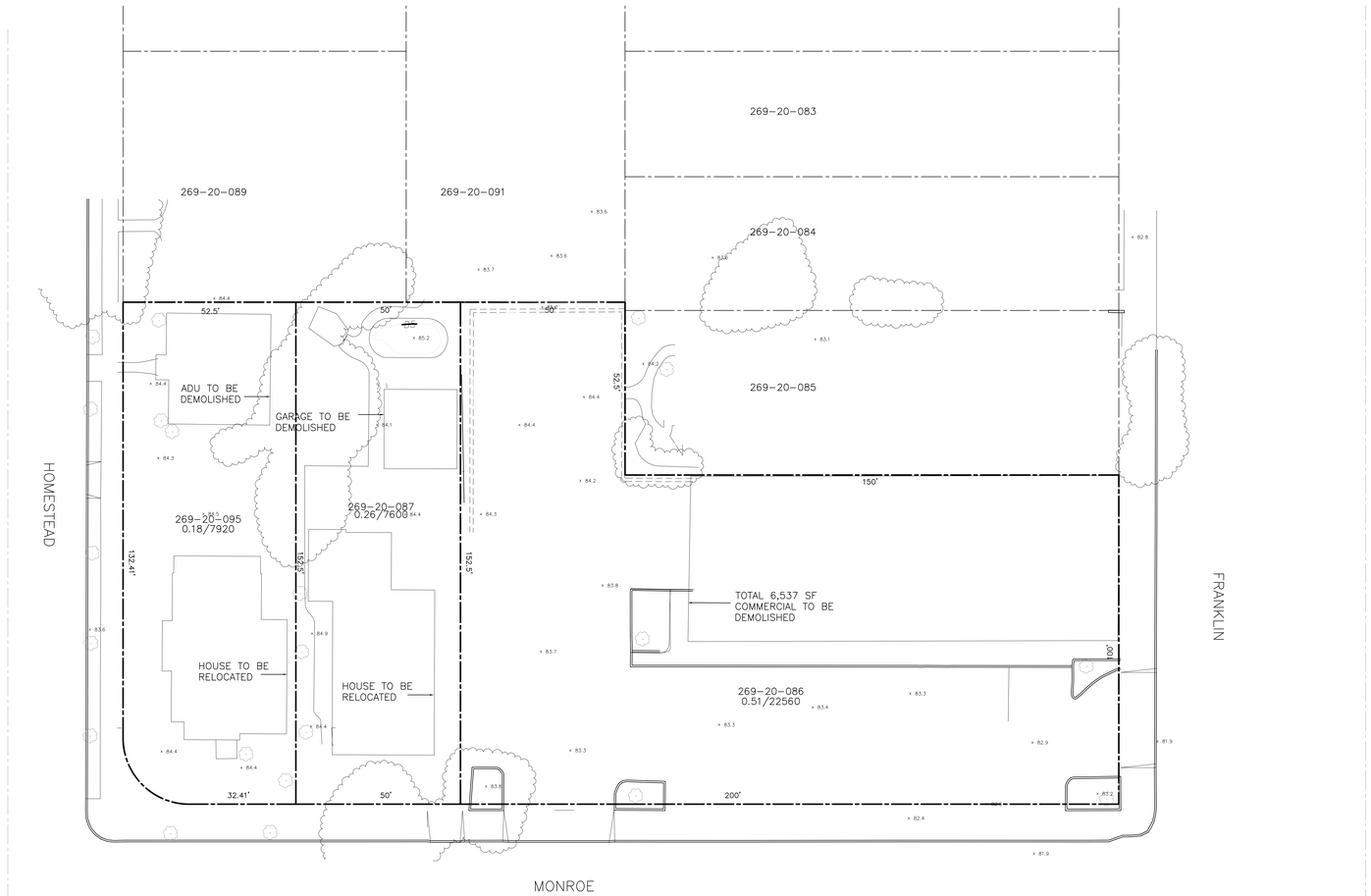
DATE: 06/03/2020
SCALE: 1/16"=1'-0"
JOB No.: 19.10.07
SHEET No.:

A0.1

SHEETS IN SET



1 EXISTING SITE PLAN

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

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EXISTING
SITE PLAN

REVISIONS	BY

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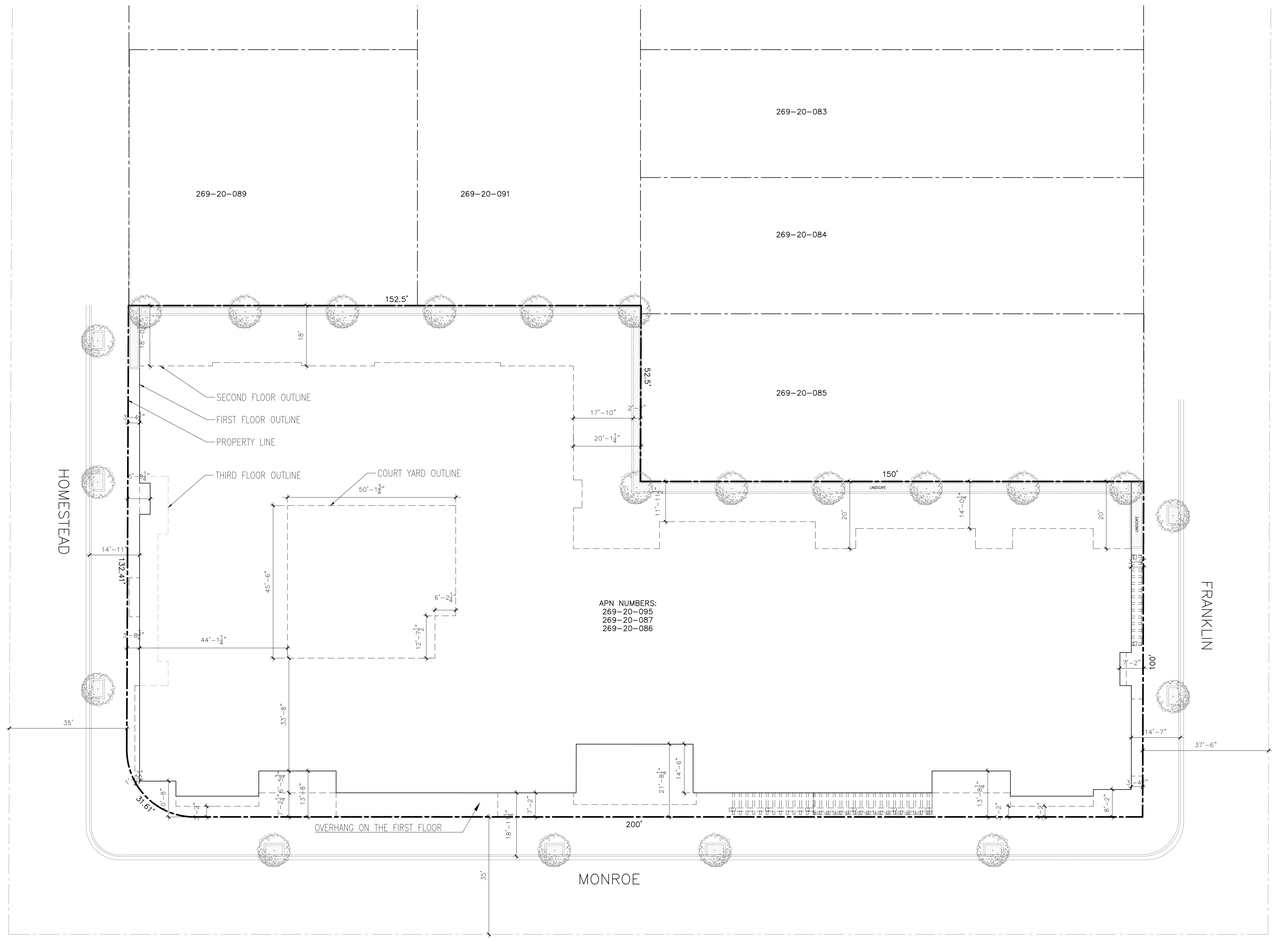
SCALE: 1/16"=1'-0"
JOB No.: 19.10.07
SHEET No.:

A1.0

SHEETS IN SET



1 PROPOSED SITE PLAN

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

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PROPOSED
SITE PLAN

REVISIONS	BY

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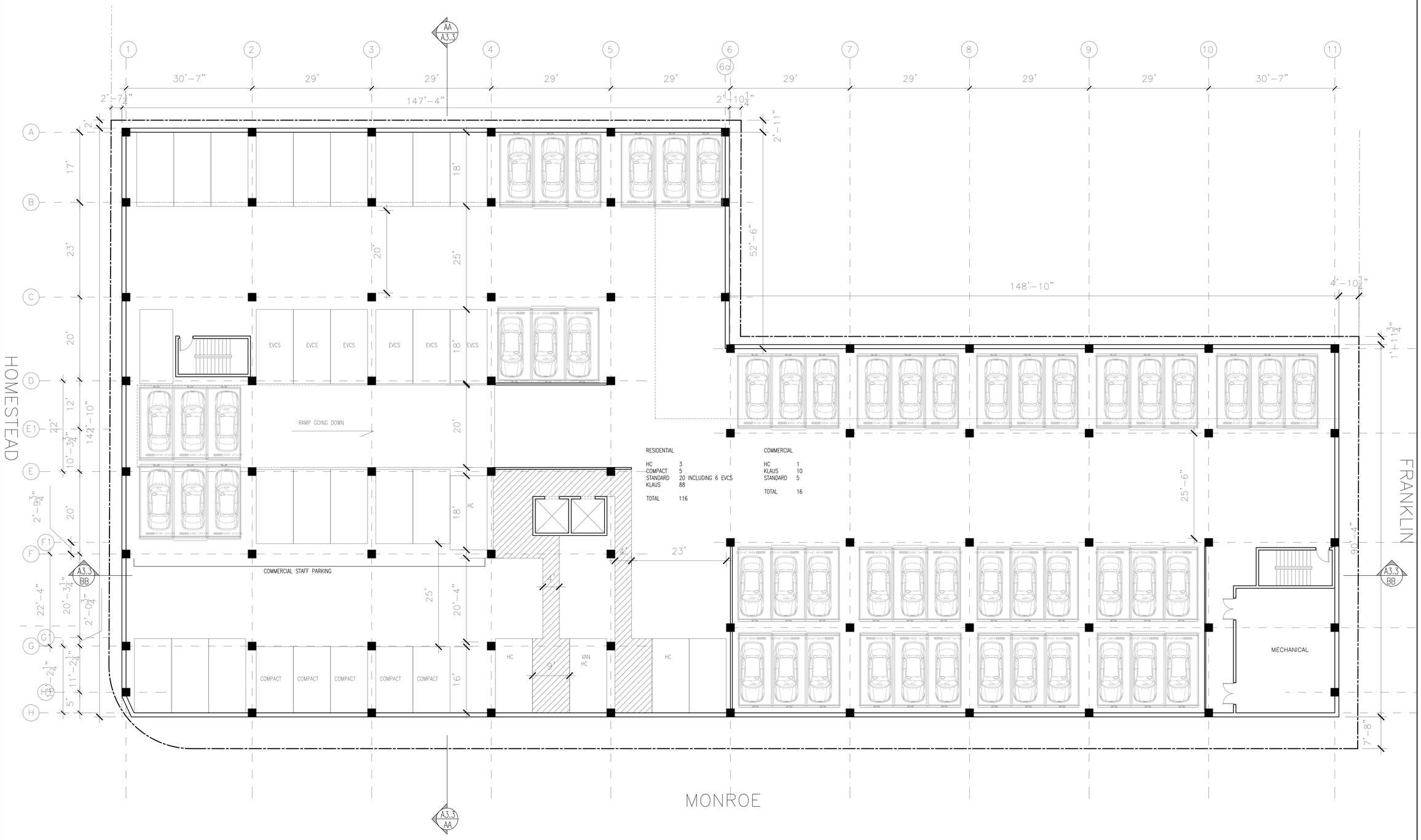
DATE: 06/03/2020
SCALE: 1/16"=1'-0"
JOB No.: 19.10.07
SHEET No.:

A1.1

SHEETS IN SET



1 PROPOSED BASEMENT PLAN

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

RESIDENTIAL PARKING (REQUIRED)				PROVIDED
	one-bedroom	two-bedrooms	three-bedrooms	
2nd floor	3	14	0	
3rd floor	5	15	0	
4th floor	4	15	0	
5th floor	0	4	1	
sub-total	**12**	**48**	**1**	
Total units	**61**			
Parking space required per unit	1.5	2	2	
	18	96	2	
Total residential parking	**116**			116
Required accessible parking space	**3**			3
Van accessible	1			
accessible	2			
				116
Rerquied total EVCS	**7** (Per CGC table 4.106.4.3.1)			
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Rerquied total EVCS	**4** (Per CGC table 5.106.5.3.3)			4
Van accessible EVCS	1			1
Required accessible parking space	**3**			3
Van accessible	1			1
accessible	2			2

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SHEET NAME :

PROPOSED BASEMENT PLAN

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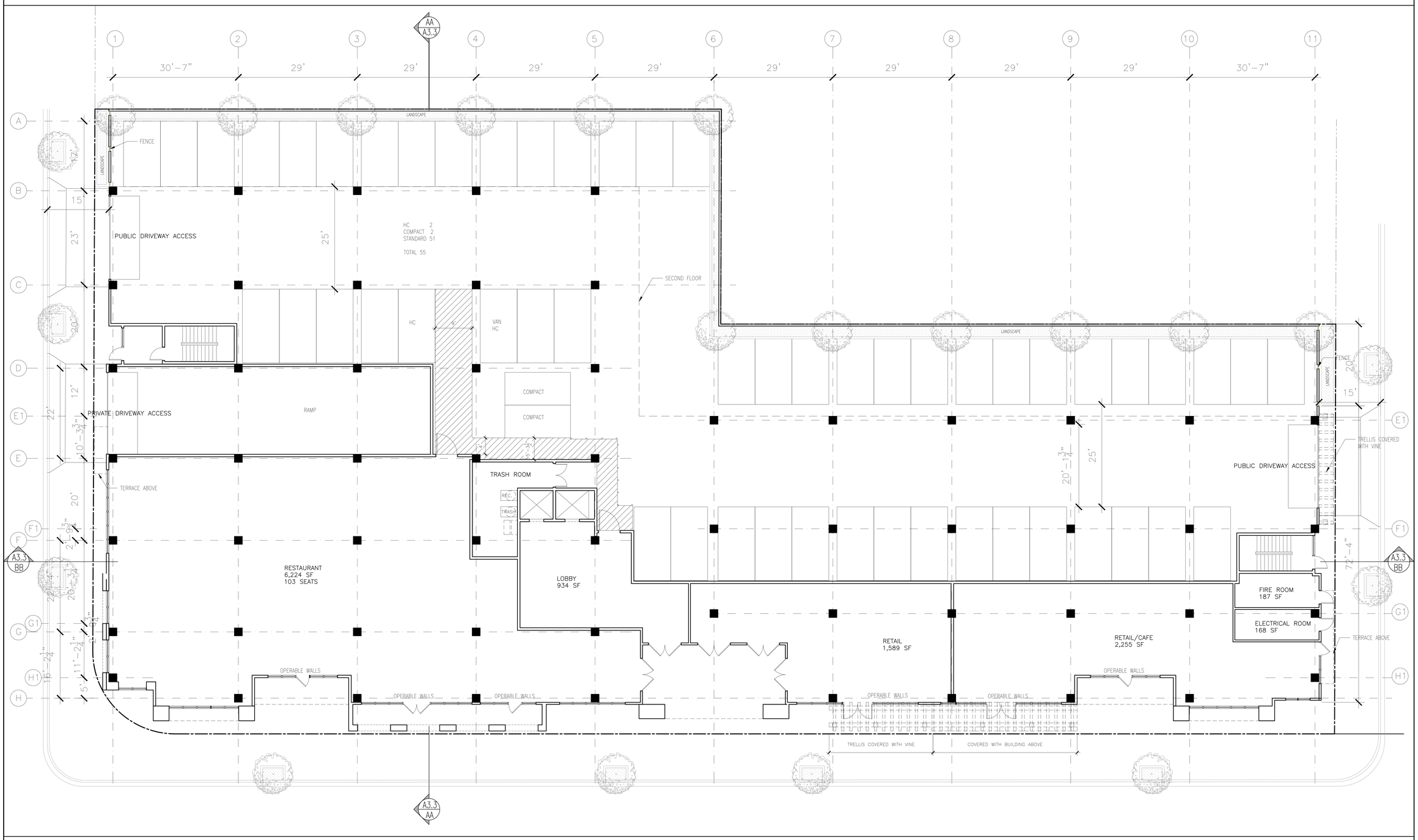
SCALE: 1/8"=1'-0"
JOB No.: 19.10.07
SHEET No.:

SHEETS IN SET A2.1



1 PROPOSED 1ST FLOOR PLAN

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

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SHEET NAME :

PROPOSED
1ST FLOOR PLAN

REVISIONS	BY

DRAWN:
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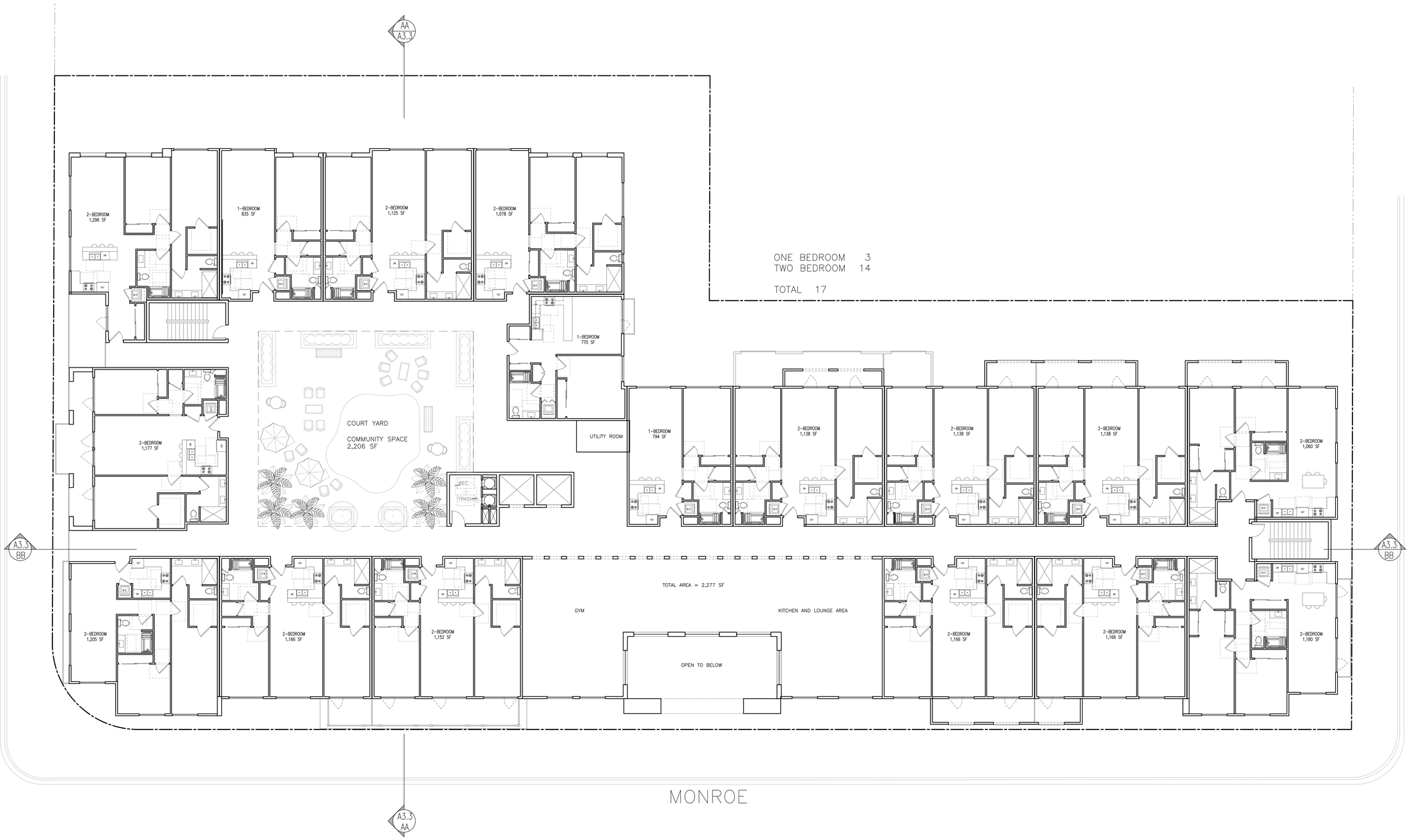
DATE: 06/03/2020
SCALE: 1/8"=1'-0"
JOB No.: 19.10.07
SHEET No.:

A2.2

SHEETS IN SET



1 PROPOSED 2ND FLOOR PLAN

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

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SHEET NAME :

PROPOSED
2ND FLOOR PLAN

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DRAWN:
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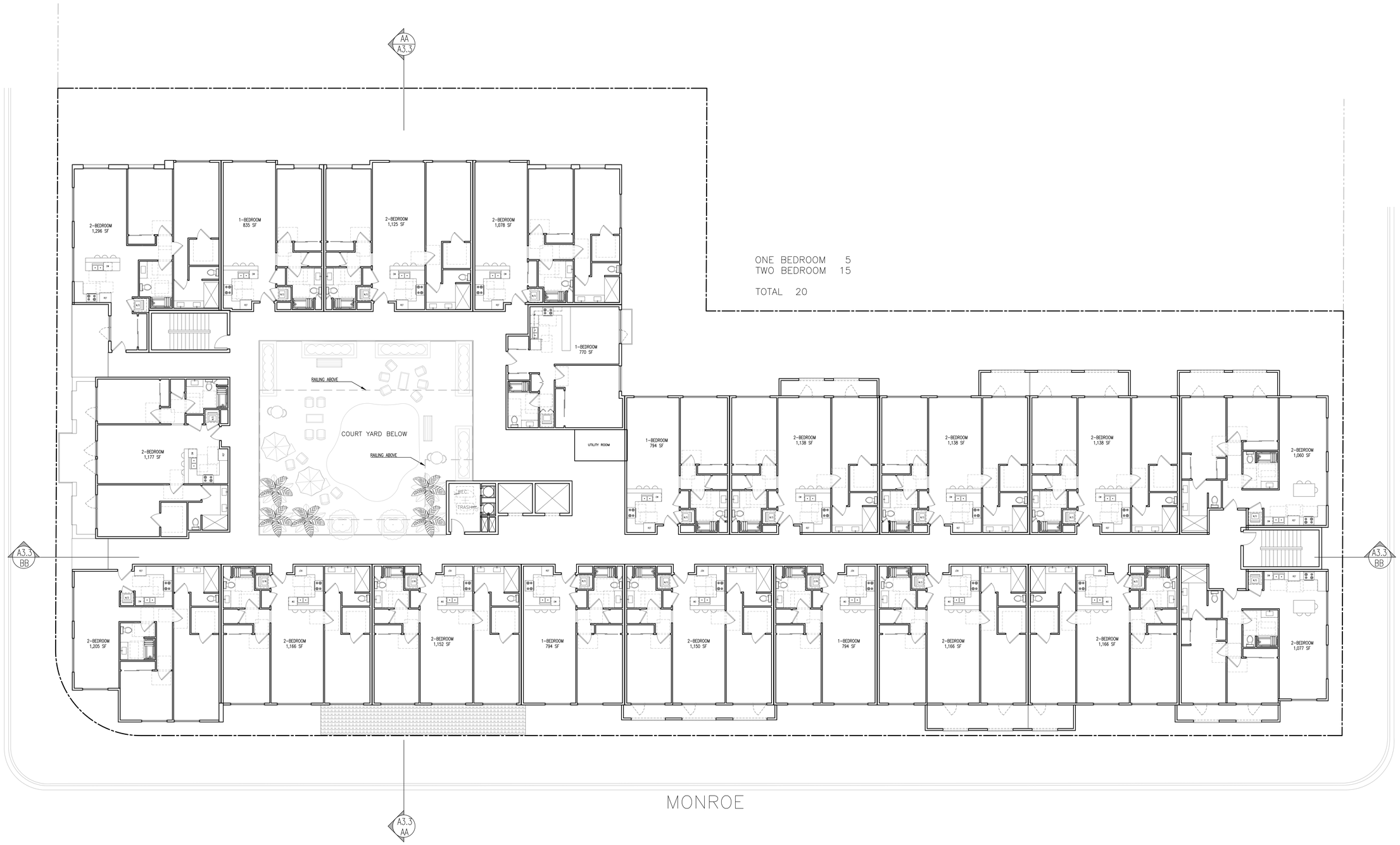
SCALE: 1/8"=1'-0"
JOB No.: 19.10.07
SHEET No.:

SHEETS IN SET A2.3



ONE BEDROOM 5
TWO BEDROOM 15

TOTAL 20

1 PROPOSED 3RD FLOOR PLAN

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

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SHEET NAME :

PROPOSED
3RD FLOOR PLAN

REVISIONS	BY

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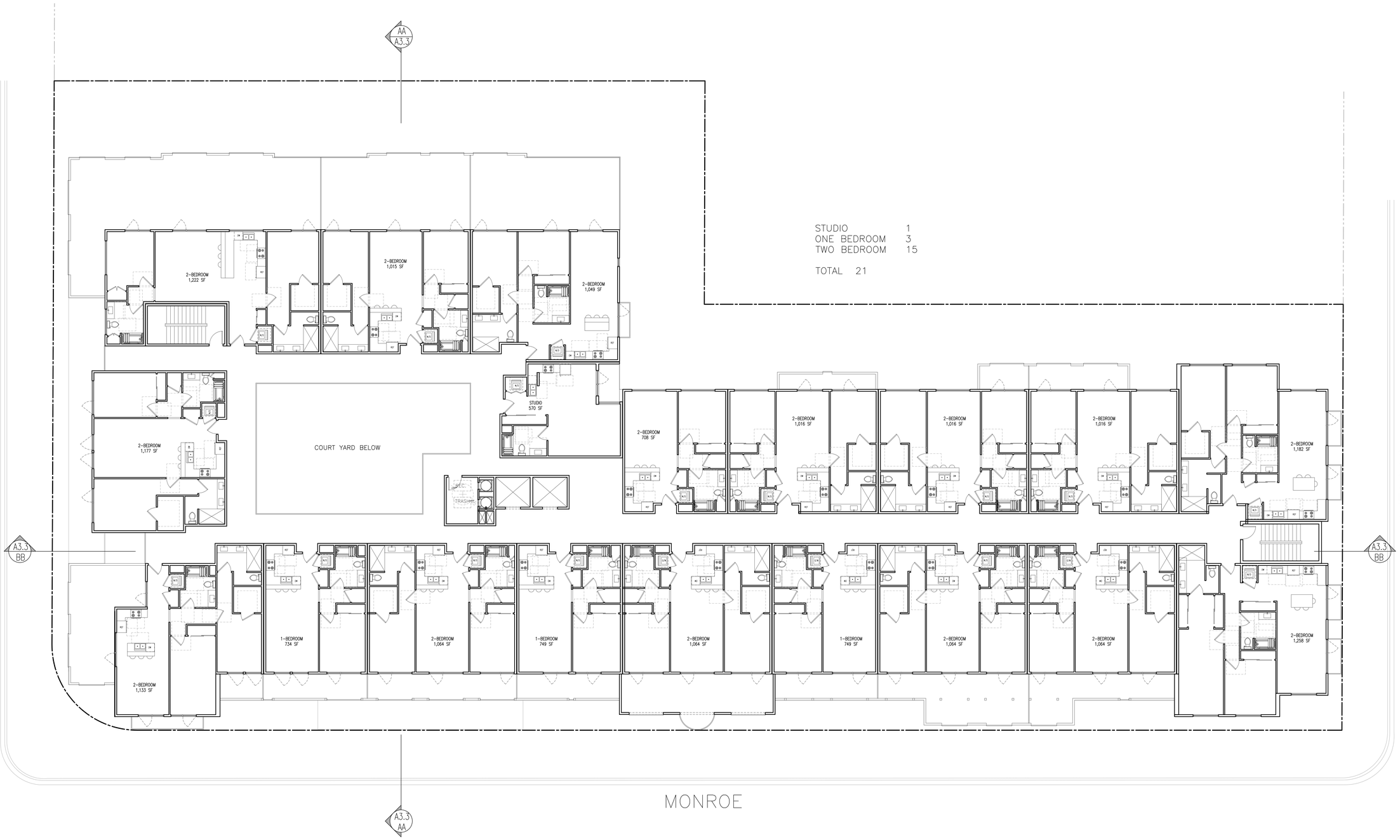
SCALE: 1/8"=1'-0"
JOB No.: 19.10.07
SHEET No.:

A2.4

SHEETS IN SET



1 PROPOSED 4TH FLOOR PLAN

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

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SHEET NAME :

PROPOSED
4TH FLOOR PLAN

REVISIONS	BY

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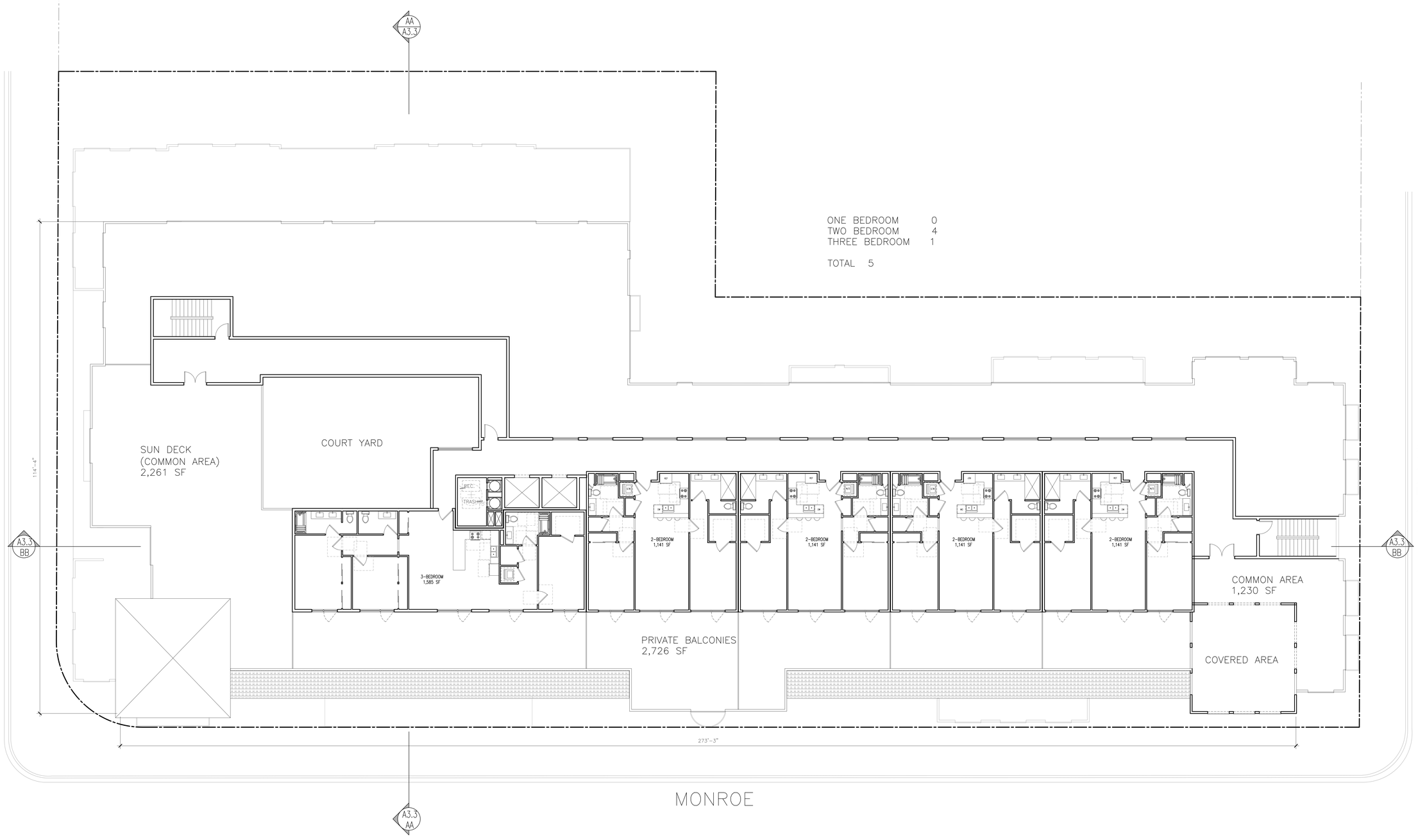
JOB No.: 19.10.07
SHEET No.:

SHEETS IN SET A2.5



1 PROPOSED 5TH FLOOR PLAN

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

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SHEET NAME :

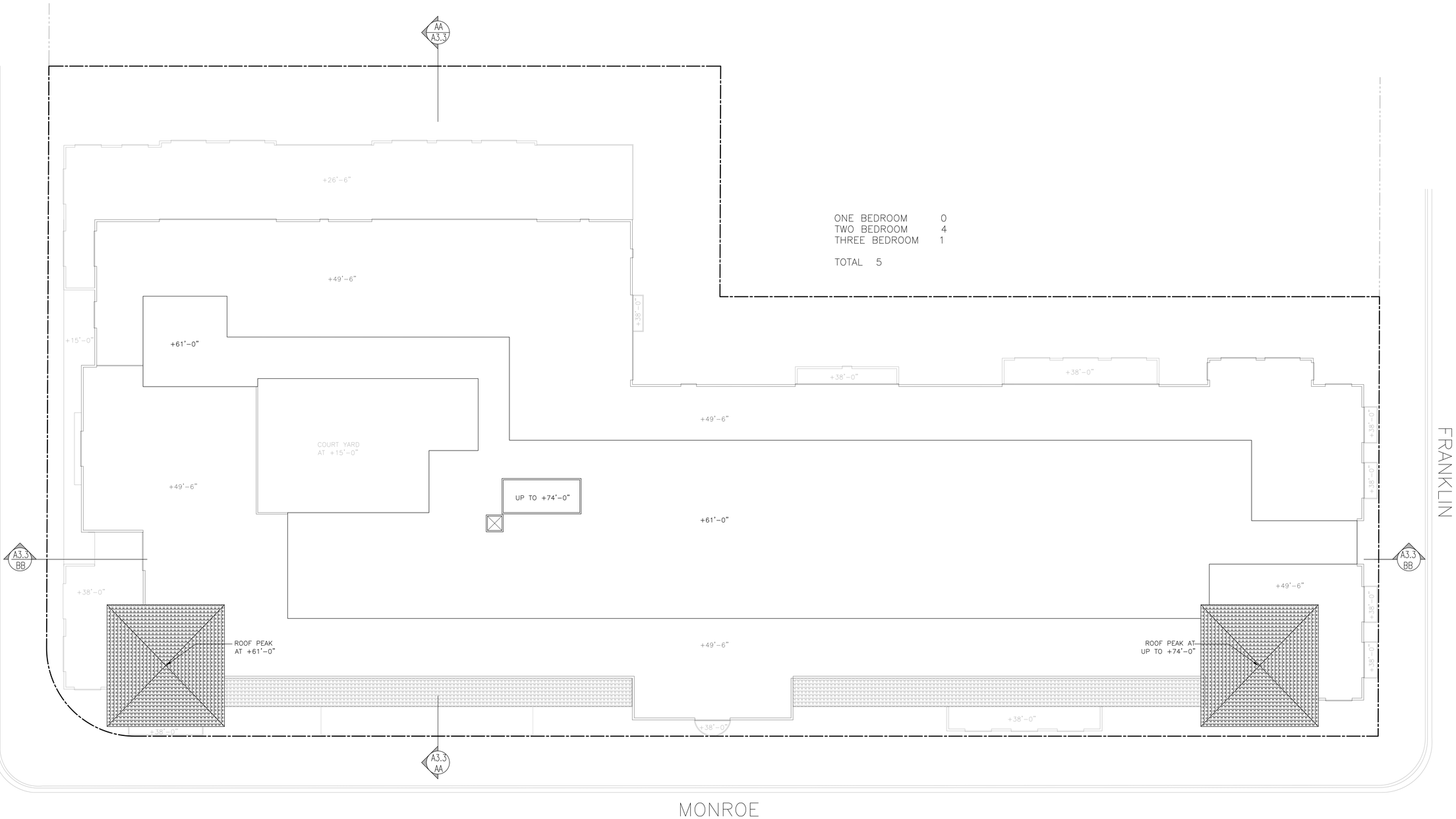
PROPOSED
5TH FLOOR PLAN

REVISIONS	BY

DRAWN:
CHECKED:
DATE: 06/03/2020
SCALE: 1/8"=1'-0"
JOB No.: 19.10.07
SHEET No.:

A2.6

SHEETS IN SET



ONE BEDROOM 0
TWO BEDROOM 4
THREE BEDROOM 1

TOTAL 5

1 PROPOSED 5TH FLOOR PLAN

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

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SHEET NAME :

PROPOSED
5TH FLOOR PLAN

REVISIONS	BY

DRAWN:
CHECKED:
DATE: 06/03/2020
SCALE: 1/8"=1'-0"
JOB No.: 19.10.07
SHEET No.:

A2.7

SHEETS IN SET

1 PROPOSED EAST ELEVATION (MONROE)

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

1 PROPOSED SOUTH ELEVATION (HOMESTEAD)

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

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SHEET NAME :

PROPOSED
ELEVATIONS

REVISIONS	BY

DRAWN:
CHECKED:
DATE: 06/03/2020
SCALE: 1/8"=1'-0"
JOB No.: 19.10.07
SHEET No.:

A3.0

SHEETS IN SET

1 PROPOSED WEST ELEVATION

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

1 PROPOSED NORTH ELEVATION (FRANKLIN)

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

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INTERIOR DESIGN
SALVATORE CARUSO
DESIGN CORPORATION
980 EL CAMINO REAL, # 200, SANTA CLARA, CA 95050
TEL. No. (408) 998-4087 • FAX. No. (408) 998-4088

PROJECT :

SANTA CLARA
DOWNTOWN
906,930,940,950 MONROE ST
SANTA CLARA, CA 95050

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SHEET NAME :

PROPOSED
ELEVATIONS

REVISIONS	BY

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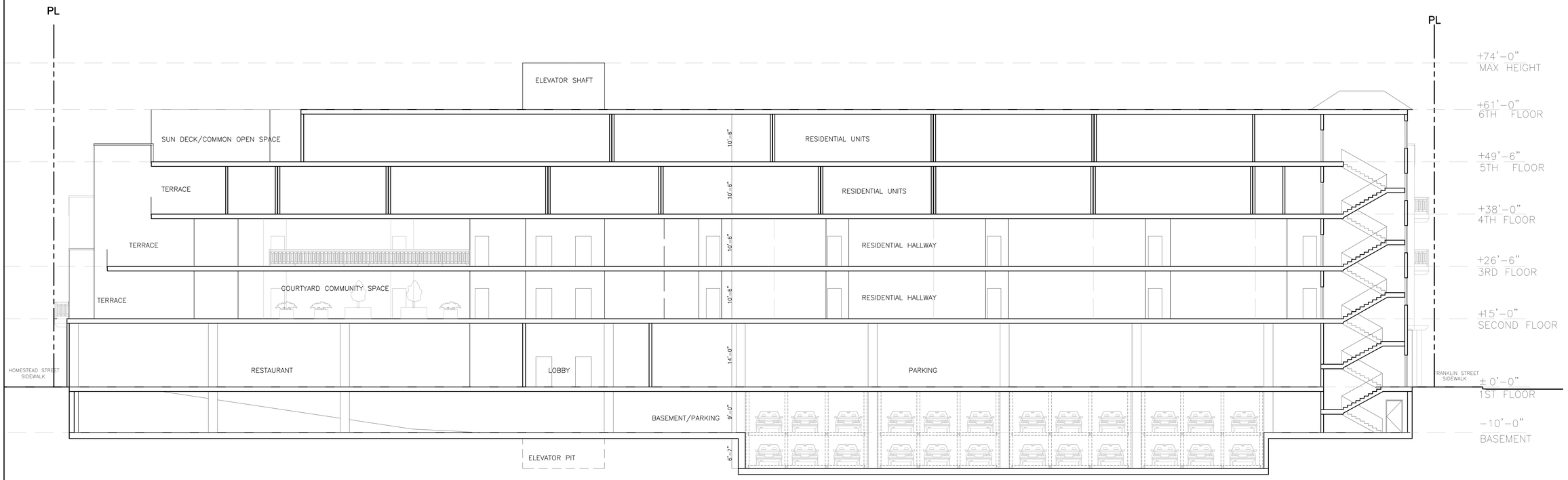
SCALE: 1/8"=1'-0"
JOB No.: 19.10.07
SHEET No.:

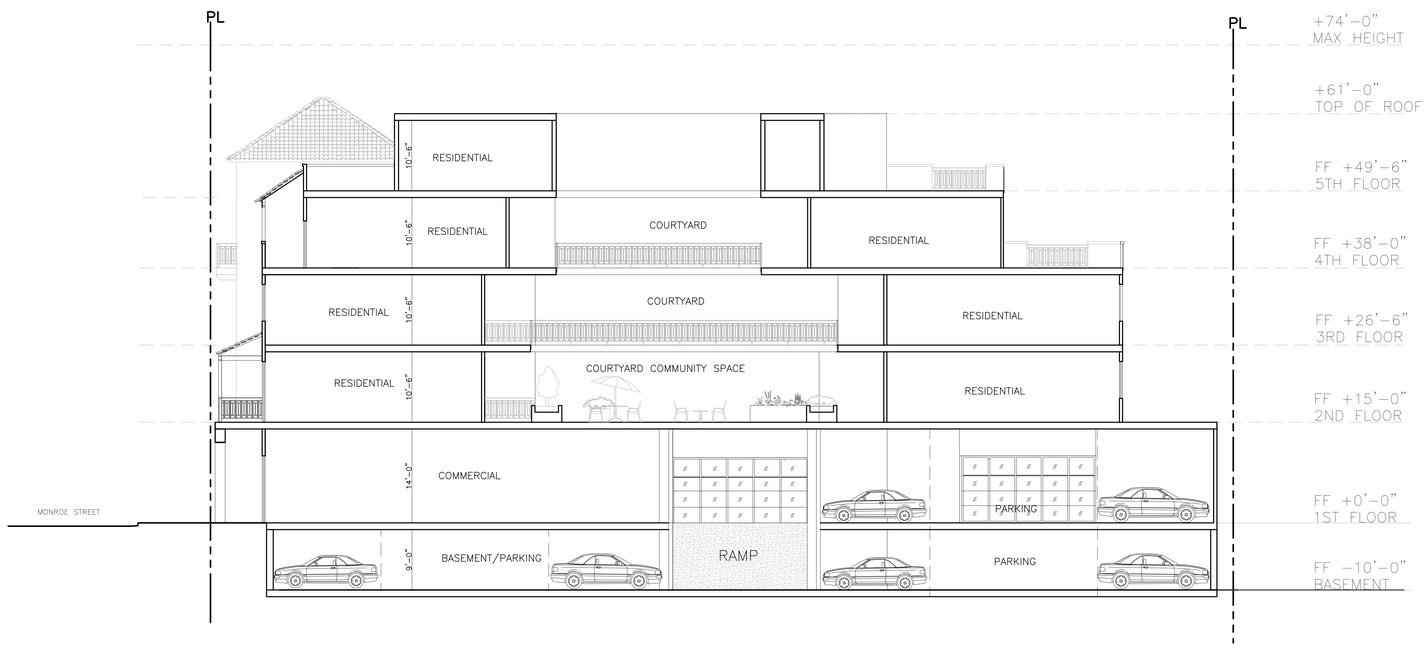
A3.1

SHEETS IN SET



(A) PROPOSED SECTION A–A

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



(B) PROPOSED SECTION B–B

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

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PROJECT :

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906,930,940,950 MONROE ST
SANTA CLARA, CA 95050

GENERAL NOTES :

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SHEET NAME :

SECTIONS

REVISIONS	BY

DRAWN:	
CHECKED:	
DATE:	06/03/2020
SCALE:	1/8"=1'-0"
JOB No.:	19.10.07
SHEET No.:	

SHEETS IN SET A3.2

STUCCO
FRENCH OAK
KM 4628

PAINTED METAL SHEET
IN BRONZE

STUCCO
CZECH
BAKERY
KM 4633

TAPERED
BARREL TILE –
MISSION STYLE

FRENCH
LIMESTONE

PAINTED METAL
RAILING IN
BRONZE

WINDOW
PROFILES IN
BRONZE

WOODEN
TRELLIS

TAPERED
BARREL TILE –
MISSION STYLE

FRENCH
LIMESTONE

PAINTED METAL SHEET
IN BRONZE

STUCCO
FRENCH OAK
KM 4628

WOOD
PANELS

STUCCO
CZECH
BAKERY
KM 4633

PAINTED METAL
RAINING IN
BRONZE

WINDOW
PROFILES IN
BRONZE

MATERIAL BOARD (FOR REFERENCE)

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INTERIOR DESIGN
SALVATORE CARUSO
DESIGN CORPORATION
980 EL CAMINO REAL, # 200, SANTA CLARA, CA 95050
TEL. No. (408) 998-4087 • FAX. No. (408) 998-4088

PROJECT :

SANTA CLARA
DOWNTOWN
906,930,940,950 MONROE ST
SANTA CLARA, CA 95050

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SHEET NAME :

MATERIAL BOARD

REVISIONS	BY

DRAWN:
CHECKED:
DATE: 06/03/2020
SCALE: N.T.S.
JOB No.: 19.10.07
SHEET No.:

A3.3

SHEETS IN SET

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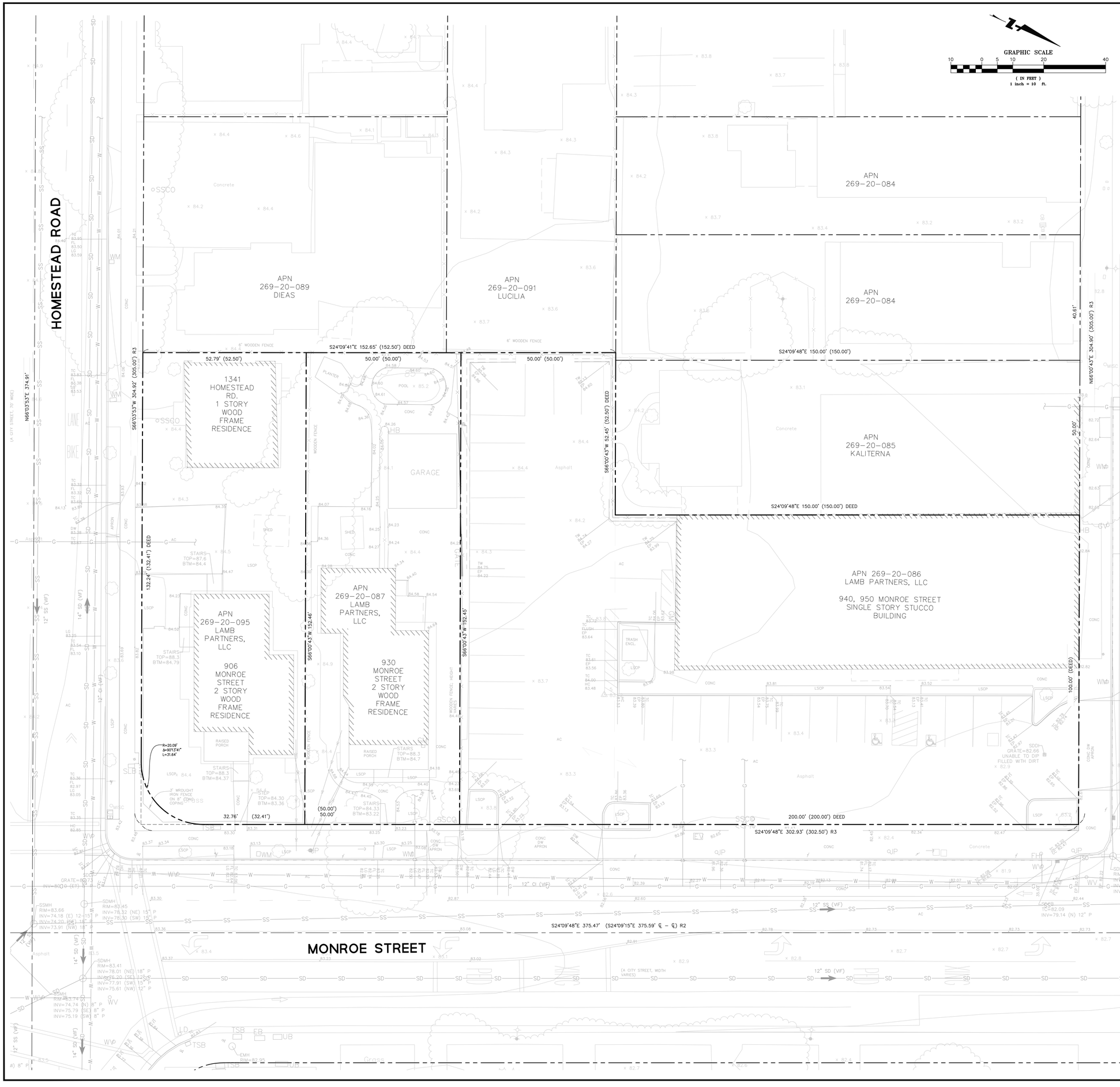

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSORS PARCEL NUMBER
CB	CATCH BASIN
CC	CONCRETE EDGE
CLDR	CENTERLINE OF DOOR
COM	COMMUNICATIONS PULLBOX
CONC	CONCRETE
DI	DROP INLET
DW	DRIVEWAY
E	EAST
EB	ELECTRIC PULLBOX
EP	EDGE OF PAVEMENT
EV	ELECTRIC VAULT
EX.	EXISTING
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FNC	FENCE
GM	GAS METER
GV	GAS VALVE
HC	HANDICAP RAMP
INV	INVERT
JP	JOINT POLE
LG	LIP OF GUTTER
LSCP	LANDSCAPING
M-M	MONUMENT TO MONUMENT
MH	MANHOLE
ML	MONUMENT LINE
N	NORTH
PL	PROPERTY LINE
ROW	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SDAD	STOR DRAIN AREA DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDDI	STORM DRAIN DROP INLET
SDJB	STORM DRAIN JUNCTION BOX
SDMH	STORM DRAIN MANHOLE
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STD.	STANDARD
TC	TOP OF CURB, AT FACE
TMH	TELEPHONE MANHOLE
TSB	TRAFFIC SIGNAL BOX
UMH	UNKNOWN MANHOLE
UNK	UNKNOWN MATERIAL
W	WEST
WM	WATER METER
WV	WATER VALVE

LEGEND

BOUNDARY LINE
LOT LINE
EASEMENT LINE
MONUMENT LINE
ROADWAY CENTER LINE
TIE LINE
BUILDING WALL LINE
FENCE LINE
DRIVEWAY (EXISTING DRIVEWAY)
SIDEWALK (CC SW)
OVERHEAD LINE (OH)
COMMUNICATION LINE (COMM)
ELECTRICAL LINE (OH)
GAS LINE (G)
STORM DRAIN LINE (SD)
SANITARY SEWER LINE (SS)
WATER LINE (W)
ELEVATION (TC XX.xx)
BOLLARD
COMMUNICATION BOX (COM)
ELECTRIC BOX (EB)
FIRE HYDRANT
GAS METER (GM)
GUY WIRE
JOINT POLE
SANITARY SEWER CLEANOUT (SSCO)
SANITARY SEWER MANHOLE (SSMH)
STORM DRAIN CATCH BASIN
STORM DRAIN DROP INLET
STORM DRAIN MANHOLE (SDMH)
STREET LIGHT BOX (SLB)
SURVEY IRON PIPE
SURVEY STREET MONUMENT
TRAFFIC SIGNAL
TRAFFIC SIGNAL BOX (TSB)
UNKNOWN MANHOLE
WATER METER (WM)
WATER VALVE (WV)

SURVEY NOTES

BASIS OF BEARINGS:

THE BEARING OF S66°00'43"W ALONG THE CENTER LINE OF FRANKLIN STREET, BETWEEN MADISON STREET AND MONROE STREET AS SHOWN HEREON, AND AS SHOWN ON BOOK 442 OF MAPS, PAGE 26.

BENCHMARK:

THE BENCHMARK USED FOR THIS SURVEY IS BENCHMARK A-9, FOUND AT BENTON STREET AND MONROE STREET, SE CORNER, TOP OF LETTER "C" IN WORD "CAL" ON TOP OF CATCH BASIN HOOD.

ELEVATION = 78.21 FEET (NAVD88 DATUM)

GENERAL NOTES:

1. DATE OF FIELD SURVEY: 03-25-2020
2. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
3. THE TYPES, LOCATIONS, AND SIZES OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE BASED ON AS-BUILT MAPS, GIS MAPS, AND OTHER UTILITY INFORMATION FROM DIFFERENT SOURCES. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO DELINEATE ALL KNOWN UNDERGROUND UTILITIES. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES NOT SHOWN ON THESE DRAWINGS.

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SUITE 600
SAN JOSE, CA 95112
408-467-9100
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CALIFORNIA

SANTA CLARA DOWNTOWN PROJECT
930-950 MONROE STREE
EXISTING CONDITIONS

SANTA CLARA

SANTA CLARA

No.	Revisions	City Approval Date

Date: 6/02/2020
Scale: AS SHOWN
Design: TN
Drawn: JH
Approved: PK
Job No: 20190263

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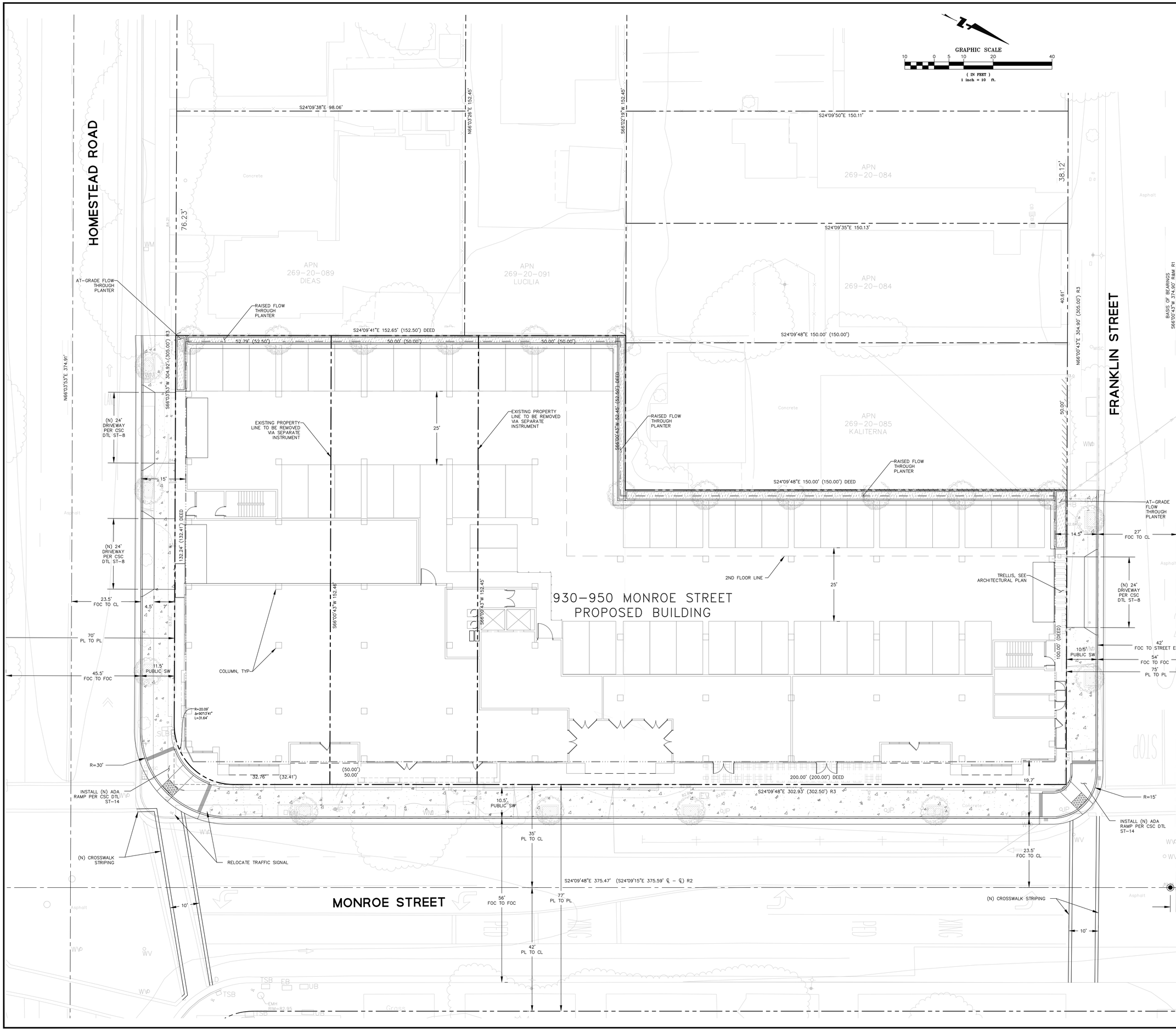

LEGEND

- PROPERTY LINE
- ADJACENT LOT LINE
- ROADWAY CENTER LINE
- BASEMENT LINE (FOR REFERENCE)
- CONCRETE SIDEWALK
- LANDSCAPE
- FLOW THROUGH TREATMENT PLANTER
- TRUNCATED DOMES
- DRIVEWAY
- VERTICAL CURB & GUTTER

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SANTA CLARA DOWNTOWN PROJECT
930–950 MONROE STREET
PRELIMINARY SITE PLAN

SANTA CLARA CALIFORNIA

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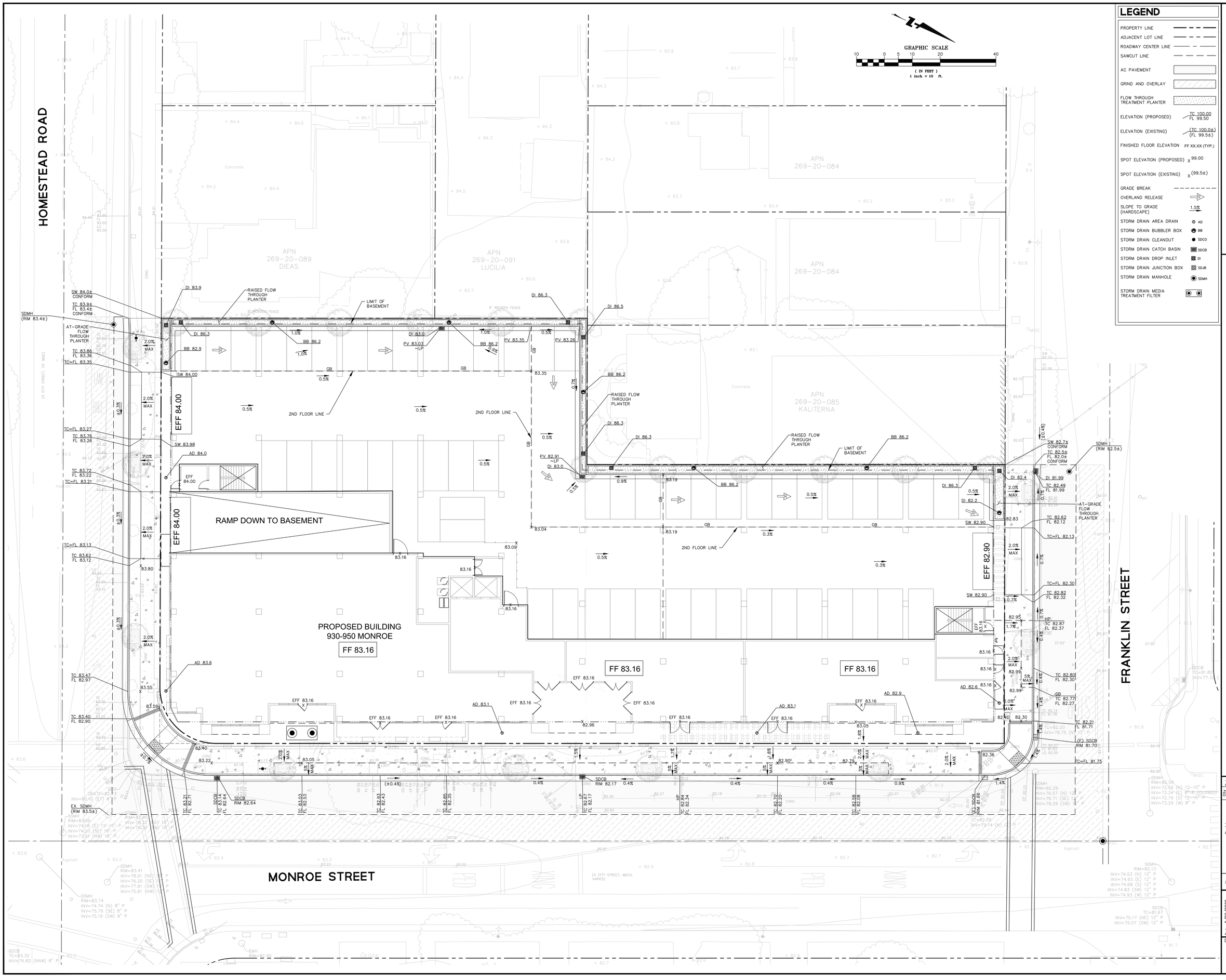

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SANTA CLARA DOWNTOWN PROJECT
930-950 MONROE STREE
PRELIMINARY GRADING AND DRAINAGE PLAN

SANTA CLARA, CALIFORNIA

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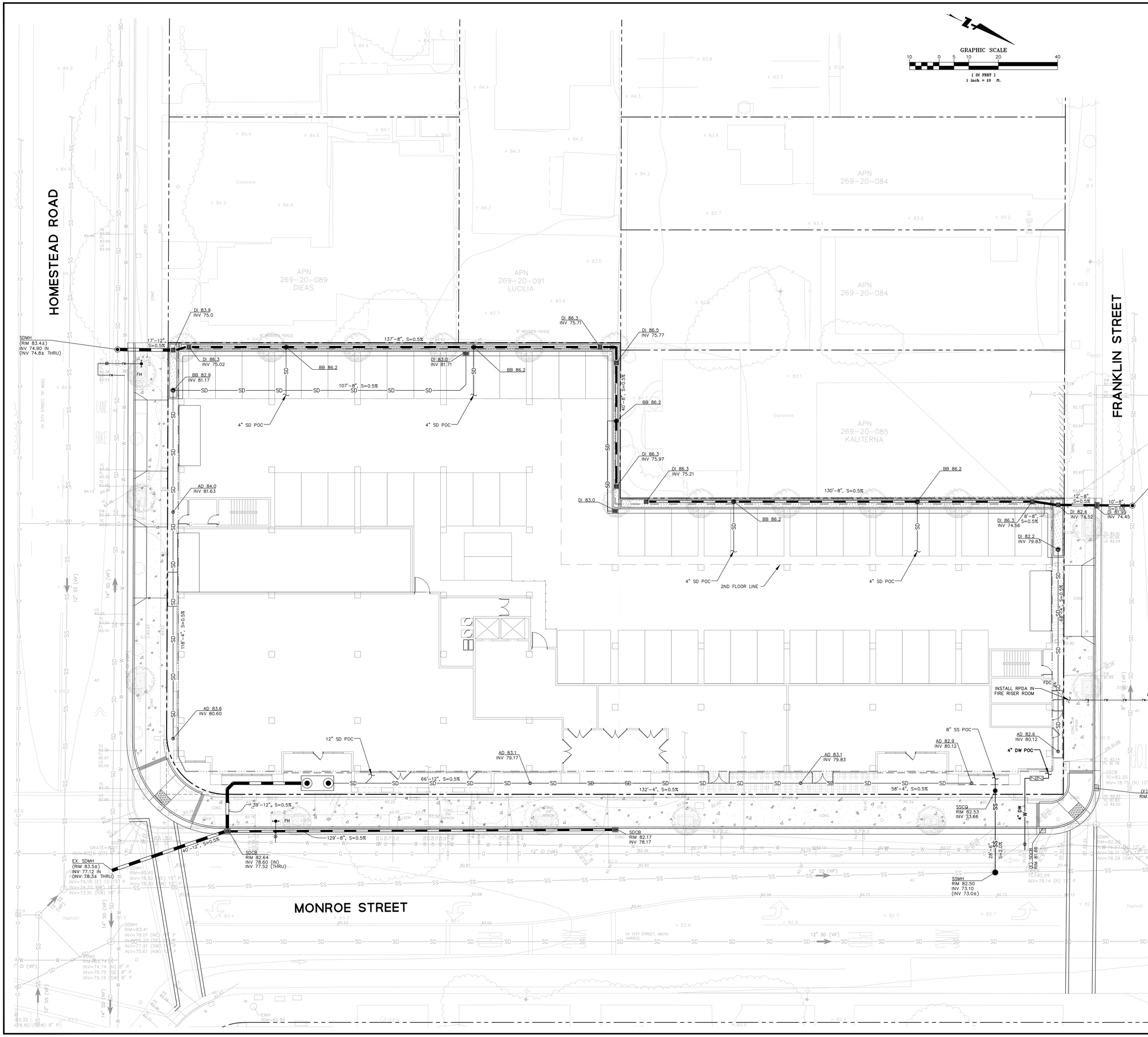

LEGEND

PROPERTY LINE	
ADJACENT LOT LINE	
ROADWAY CENTER LINE	
ELEVATION	RIM XXX.XX / INV XXX.XX
COMMUNICATION LINE	COMM
DOMESTIC WATER LINE	W
ELECTRIC LINE	E
FIRE WATER LINE	FW
GAS LINE	G
JOINT TRENCH LINE	JT
SANITARY SEWER LINE	XX"-X" S=X.X%
STORM DRAIN (DIRECTION)	SD
STORM DRAIN (PERFORATED)	XX"-X" S=X.X%
STORM DRAIN (TREATED)	XX"-X" S=X.X%
STORM DRAIN (UNTREATED)	XX"-X" S=X.X% SD
STORM DRAIN AREA DRAIN	AD
STORM DRAIN BUBBLER BOX	BB
STORM DRAIN CLEANOUT	SDCO
STORM DRAIN CATCH BASIN	SDCB
STORM DRAIN DROP INLET	DI
STORM DRAIN JUNCTION BOX	SDJB
STORM DRAIN MANHOLE	SDMH
STORM DRAIN MEDIA TREATMENT FILTER	
SANITARY SEWER CLEANOUT	SDCO
SANITARY SEWER MANHOLE	SSMH
BACKFLOW PREVENTER	
FIRE HYDRANT	
FIRE DEPARTMENT CONNECTION	WALL FDC
WATER METER	
WATER VALVE	

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SANTA CLARA DOWNTOWN PROJECT
930-950 MONROE STREET
PRELIMINARY UTILITY PLAN

SANTA CLARA CALIFORNIA

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Job No: 20190263

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OF

TREATMENT CONTROL MEASURE SUMMARY										
AREAS DRAINAGE	DRAINAGE AREA SIZE (SF)	PERVIOUS SURFACE (SF)	TYPE OF PERVIOUS SURFACE	IMPERVIOUS SURFACE (SF)	TYPE OF IMPERVIOUS SURFACE	BIORETENTION REQUIRED (SF)	BIORETENTION PROVIDED (SF)	NON-LID TREATMENT		PROPOSED TREATMENT CONTROLS
								REQUIRED (CFS)	PROVIDED (CFS)	
A-1	2,565	101	Landscape	2,464	AC/Concrete	99	101	-	-	TCM-1
A-2	6,394	279	Landscape	6,115	Concrete/Roof	245	279	-	-	TCM-2
A-3	1,959	96	Landscape	1,863	Concrete	75	96	-	-	TCM-3
A-4	3,113	379	Landscape	2,734	Concrete/Roof	109	379	-	-	TCM-4
A-5	2,585	101	Landscape	2,484	AC/Concrete/Roof	99	101	-	-	TCM-5
A-6	21,601	0	-	21,601	Concrete/Roof	-	-	0.081	0.091	TCM-6
	38,217	956		37,261		343	380			

FILTER SIZING CALCULATION								
	C	I(S)	I(F)	A(HARDSCAPE)	A(LANDSCAPE)	Q(M)	Q(T)	FILTER
SDTD 1	0.9	1.508	0.2	21,601	0	0.609498	0.080835	Perk Filter 6' Wide Concrete Vault (12" - 6 Cartridges)

C - COEFFICIENT OF RUNOFF
I(S) - INTENSITY OF STORM (IN/HR)
I(F) - FILTRATION RATE (IN/HR)
A - AREA (SQ. FT)
Q(M) - MAXIMUM FLOW RATE (CFS)
Q(T) - TREATMENT FLOW RATE (CFS)

C=0.1 (LANDSCAPE)
C=0.9 (HARDSCAPE)
Q=CIA

NOTES

1. PROPOSED TOTAL DENSITY: 36 DU/AC MAX
2. DURING THE BEGINNING OF CONSTRUCTION, THE PROJECT APPLICANT SHALL ARRANGE FOR A SITE VISIT BY A THIRD PARTY REVIEWER ACCEPTABLE TO THE CITY TO VERIFY THAT THE INSTALLED MEASURES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED BUILDING PLANS. THE THIRD PARTY REVIEWER WILL RECOMMEND THE REQUIRED NUMBER OF SITE INSPECTIONS AT DIFFERENT INTERVALS OF CONSTRUCTION. THE THIRD PARTY REVIEWER MUST BE A CIVIL ENGINEER, ARCHITECT OR LANDSCAPE ARCHITECT REGISTERED IN THE STATE OF CALIFORNIA AND MUST HAVE A CURRENT TRAINING ON STORMWATER TREATMENT DESIGN. A LIST OF QUALIFIED THIRD-PARTY REVIEWERS CAN BE FOUND ON THE SANTA CLARA VALLEY URBAN RUNOFF POLLUTION PREVENTION PROGRAM (SCVURPPP) WEB SITE AT: WWW.SCVURPPP-W2K.COM/CONSULTANTS_LIST.SHTML
3. CONTRACTOR TO OBTAIN APPROVAL IF THERE ARE ANY CHANGES TO SELECTED MEDIA FILTER.

POTENTIAL SOURCE OF POLLUTANTS	PERMANENT CONTROLS
ON-SITE STORM DRAIN INLETS	FLOW-THROUGH PLANTER/ STORM DRAIN MEDIA FILTER
LANDSCAPE/OUTDOOR PESTICIDE USE	FLOW-THROUGH PLANTER/ STORM DRAIN MEDIA FILTER
LITTER, PODIUM POLLUTANTS	FLOW-THROUGH PLANTER/ STORM DRAIN MEDIA FILTER

STORMWATER TREATMENT AREA DATA

SPECIAL PROJECTS CLASSIFICATION: "C"

- 50% OF THE PROJECT AREA IS WITHIN ¼ OF AN EXISTING OR PLANNED TRANSIT HUB OR 100% WITHIN A PLANNED PRIORITY DEVELOPMENT AREA
- PROJECT IS CHARACTERIZED AS NON-AUTO-RELATED USE
- MINIMUM GD OF 25 DU PER ACRE

TREATMENT CREDIT CALCULATION

- LOCATION CREDIT: WITHIN 1/4 MILE OF TRANSIT HUB = 50%
- DENSITY CREDIT: RES > 30 DU/AC = 10%

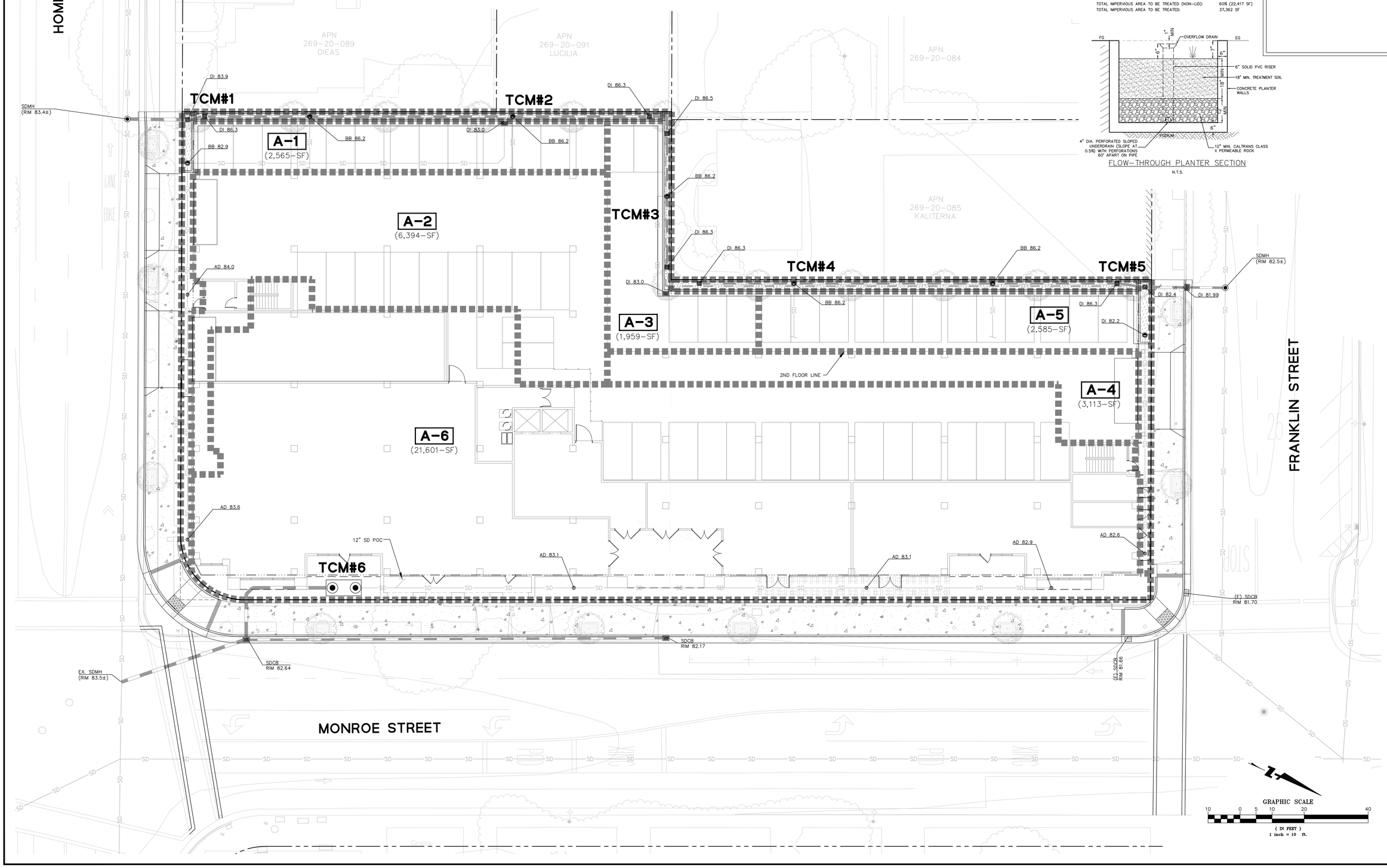
TOTAL LID TREATMENT REDUCTION CREDIT = 60%

TOTAL IMPERVIOUS AREA TO BE TREATED (LID): 40% (14,945 SF)
TOTAL IMPERVIOUS AREA TO BE TREATED (NON-LID): 60% (22,417 SF)
TOTAL IMPERVIOUS AREA TO BE TREATED: 37,362 SF

FLOW-THROUGH PLANTER SECTION
N.T.S.

LEGEND

PROPERTY LINE	
ADJACENT LOT LINE	
DRAINAGE AREA	
STORM DRAIN (DIRECTION)	SD
STORM DRAIN (PERFORATED)	
STORM DRAIN (TREATED)	
STORM DRAIN (UNTREATED)	SD
STORM DRAIN AREA DRAIN	AD
STORM DRAIN BUBBLER BOX	BB
STORM DRAIN CLEANOUT	SDCO
STORM DRAIN CATCH BASIN	SDCB
STORM DRAIN DROP INLET	DI
STORM DRAIN JUNCTION BOX	SDJB
STORM DRAIN MANHOLE	SDMH
STORM DRAIN MEDIA TREATMENT FILTER	



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930-950 MONROE STREET
PRELIMINARY STORMWATER MANAGEMENT PLAN

SANTA CLARA CALIFORNIA

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Job No: 20190263

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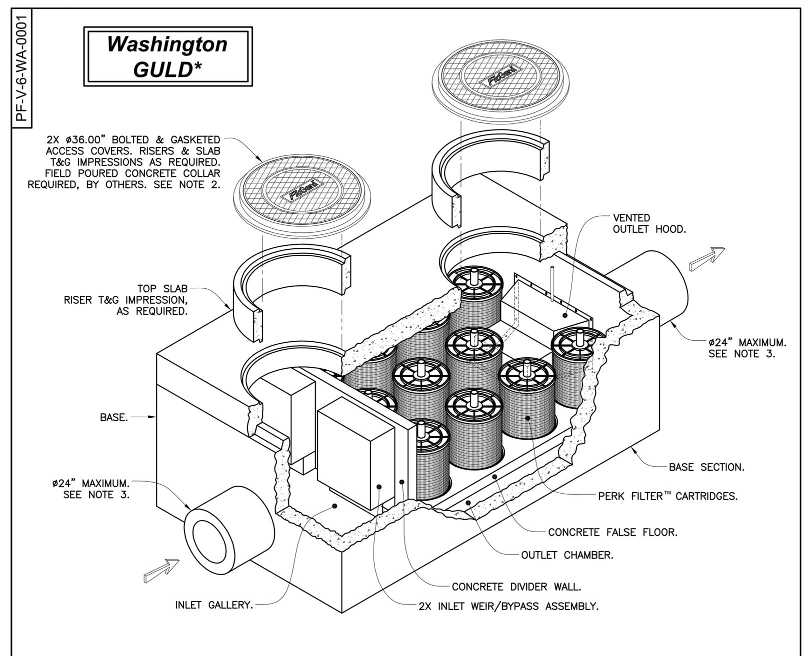
MEDIA FILTRATION DETAIL



Notes:

1. Precast concrete structure shall be manufactured in accordance with ASTM Designation C857 and C858.
2. Filter system shall be supplied with traffic rated (H20) bolted & gasketed Ø36" circular access covers with risers as required. Shallow applications may require configurations with (H20) bolted & gasketed square/rectangular access hatches. Field poured concrete collars required, by others.
3. Inlet & outlet pipe(s) (Ø 24" maximum) may enter device on all three sides of the inlet & outlet chambers respectively.
4. Inlet chamber shall be supplied with a drain-down device designed to remove standing water between storm events.
5. For depths less than specified minimums contact Oldcastle® Stormwater Solutions for engineering assistance.

* **Treatment Flow Rates shown conform to Washington State GULD Specifications**

Perk Filter™ — *6' Wide Concrete Vault* — *Washington State GULD* — *Four to Eleven Cartridges / Stacks* — Media Filtration

Oldcastle® Stormwater Solutions
7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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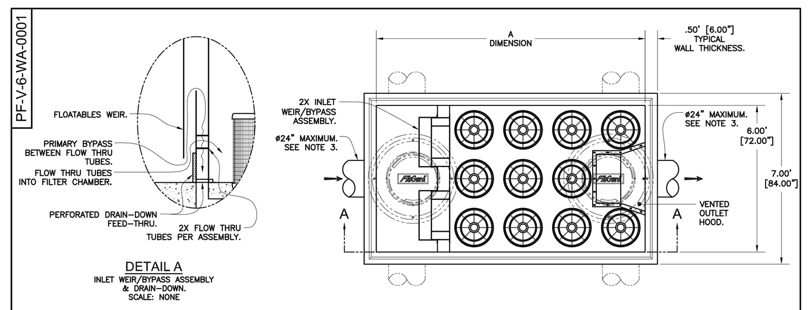
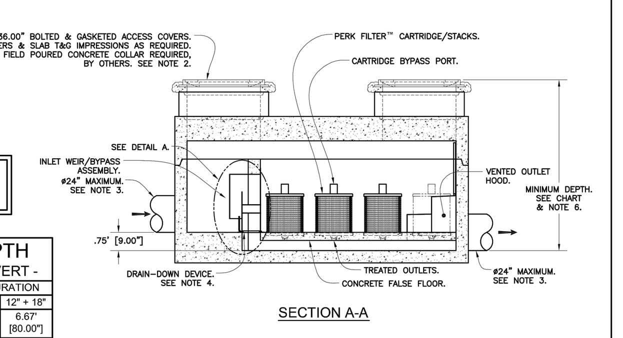
DRAWING NO.	REV	ECO	DATE	
PF-V-6-WA-0001	E	ECO-0122 JPR 10/3/14	JPR 3/2/11	SHEET 1 OF 2





Washington GULD*

MINIMUM DEPTH
- RIM TO OUTLET INVERT -

CARTRIDGE STACK CONFIGURATION			
12"	18"	12" + 12"	12" + 18"
4.25' [51.00"]	5.00' [60.00"]	5.92' [71.00"]	6.67' [80.00"]

6' VAULT
TREATMENT FLOW RATES, TOTAL FLOW CAPACITIES & MAXIMUM HEAD LOSS

CARTRIDGE STACK QUANTITY	A DIMENSION - LENGTH - (ID-FEET)	12" TREATMENT FLOW RATE (GPM / CFS)	12" TOTAL FLOW CAPACITY (CFS)	18" TREATMENT FLOW RATE (GPM / CFS)	18" TOTAL FLOW CAPACITY (CFS)	12" & 12" TREATMENT FLOW RATE (GPM / CFS)	12" & 12" TOTAL FLOW CAPACITY (CFS)	12" & 18" TREATMENT FLOW RATE (GPM / CFS)	12" & 18" TOTAL FLOW CAPACITY (CFS)
4	7	27.2 / 0.061	5.7	40.8 / 0.091	8.5	54.4 / 0.121	9.7	68.0 / 0.152	13.0
5	7	34.0 / 0.076	5.7	51.0 / 0.114	8.6	68.0 / 0.152	9.7	85.0 / 0.190	13.0
6	9	40.8 / 0.091	5.8	61.2 / 0.136	8.6	81.6 / 0.182	9.8	102.0 / 0.227	13.1
7	9	47.6 / 0.106	5.8	71.4 / 0.159	8.6	95.2 / 0.212	9.9	119.0 / 0.265	13.2
8	9	54.5 / 0.121	5.8	81.6 / 0.182	8.7	108.8 / 0.243	9.9	136.0 / 0.303	13.2
9	11	61.2 / 0.136	5.8	91.8 / 0.205	8.7	122.4 / 0.273	10.0	153.0 / 0.341	13.3
10	11	68.0 / 0.152	5.9	102.0 / 0.227	8.8	136.0 / 0.303	10.0	170.0 / 0.379	13.4
11	11	74.8 / 0.167	5.9	112.2 / 0.250	8.8	149.6 / 0.334	10.1	187.0 / 0.417	13.4
MAXIMUM HEAD LOSS		1.7 FEET		2.3 FEET		2.9 FEET		3.5 FEET	

* **Treatment Flow Rates shown conform to Washington State GULD Specifications.**

Perk Filter™ — *6' Wide Concrete Vault* — *Washington State GULD* — *Four to Eleven Cartridges / Stacks* — Media Filtration

Oldcastle® Stormwater Solutions
7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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DRAWING NO.	REV	ECO	DATE	
PF-V-6-WA-0001	E	ECO-0122 JPR 10/3/14	JPR 3/2/11	SHEET 2 OF 2

Section 02722
STORMWATER FILTRATION SYSTEM
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PART 1 – GENERAL 1.1

Related Requirements

A. Section 01330 – Submittals: Shop Drawings, Product Data and Samples
B. Section 02330 – Earthwork: Excavation, Trenching, Backfill and Compaction
C. Section 02370 – Erosion and Sedimentation Control (including SWPPP)

1.2 Summary

A. This section includes radial cartridge stormwater media filters.

1.3 Reference Standards

A. American Association of State Highway and Transportation Officials (AASHTO)
   a. AASHTO M105 – Gray Iron Castings
B. American Society for Testing and Materials (ASTM)
   a. ASTM A48, CL.30B – Gray Iron Castings
   b. ASTM A82 – Steel Wire, Plain, for Concrete Reinforcement
   c. ASTM A185 – Steel Welded Wire Reinforcement, Plain for Concrete
   d. ASTM A496 – Steel Wire, Deformed, for Concrete Reinforcement
   e. ASTM A497 – Steel Welded Wire Reinforcement, Deformed for Concrete
   f. ASTM A615 – Deformed and Plain, Carbon-Steel Bars for Concrete Reinforcement
   g. ASTM B209 – Aluminum, Aluminum Alloy Sheet and Plate
   h. ASTM C32 – Sewer and Manhole Brick (Made from Clay or Shale)
   i. ASTM C139 – Concrete Masonry Units for Construction of Catch Basins and Manholes
   j. ASTM C150 – Portland Cement
   k. ASTM C478 – Precast Reinforced Concrete Manhole Sections
   l. ASTM C595 – Blended Hydraulic Cement
   m. ASTM C857 – Minimum Structural Design Loading for Underground Precast Concrete Utility Structures
   n. ASTM C858 – Underground Precast Concrete Utility Structures
   o. ASTM C891 – Installation of Underground Precast Utility Structures
   p. ASTM C990 – Joints for Concrete Pipe, Manholes and Precast Box Sections Using Preformed Flexible Joint Sealants
   q. ASTM C1107 – Packaged Dry, Hydraulic Cement Grout (Non-Shrink)
   r. ASTM D698 – Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort

1.4 Definitions

A. BMP: Best Management Practices
B. TSS: Total Suspended Solids

1.5 Submittals

The following shall be submitted by Contractor in accordance with Section 01330 Submittal Procedures:

A. Product Date for the following:
   a. Radial Cartridge Stormwater Media Filter
      1. Product specifications to include but not limited to specification sheets, brochures and performance claims.
      2. Installation procedures.
      3. Shop drawings shall be provided to include details for fabrication, construction, reinforcement, joints, assembly, and any accessory items. Shop drawings shall be annotated to indicate all materials to be used and applicable material standards, required tests of materials and all design assumptions for structural analysis.
      4. Operations & Maintenance Manual.
B. Independent third-party certification or test report demonstrating conformance to applicable local or regional BMP standards before the treatment system is installed for the following:
   1. Removal efficiency
   2. Targeted pollutants of concern
   3. Hydraulic capacity
   4. Certification of adherence to applicable standard
C. Products submitted as approved equal must be submitted at least two weeks prior to project bid opening and must be approved by project engineer. Submittal for approved equal product must contain

a signed letter from an executive officer of the manufacturer stating product is equivalent to all applicable requirements of this specification.

1.6 Delivery, Storage and Handling

A. All filtration system components shall be delivered to the site and unloaded with handling that conforms to the manufacturer's instructions for reasonable care. Concrete and internal components shall not be rolled or dragged over gravel or rock during handling. The Contractor shall take necessary precautions to ensure the method used in lifting or placing the filtration system does not induce stress fatigue in the concrete.

PART 2 – PRODUCTS

2.1 Radial Cartridge Stormwater Media Filter

2.1.1 Description

The Contractor, and/or a manufacturer selected by the Contractor and approved by the Engineer, shall furnish all labor, materials, equipment and incidentals required and install all precast concrete Stormwater Filtration Systems and appurtenances in accordance with the Drawings and these Specifictions. The Stormwater Filtration System shall consist of an underground precast concrete structure at houses rechargeable, passive, orifice controlled, radial-flow media-filled filter cartridges which trap particulates (TSS) and absorb pollutants such as dissolved metals, nutrients and hydrocarbons.

The Stormwater Filtration System shall be sized at a hydraulic loading rate of no more than 2.0 gpm/sf of media surface area. The water quality treatment flow rate shall be as determined and approved by the Engineer.

The Stormwater Filtration System shall contain a pre-treatment bay and be self-draining to increase the effective life of the filter media. The media cartridges shall be elevated to reduce the accumulation of material on the cartridge surface. Each radial-flow filter cartridge shall operate at a pre-determined flow rate through the use of an integrated flow control mechanism located within each filter cartridge.

The filtration system must include the capability to partition flows, causing all runoff to be diverted into the filtration chamber during low-flow conditions. This can be accomplished with either internal or external diversion. Flows exceeding the treatment capacity of the unit shall be diverted around the filtration chamber to prevent re-suspension and washout of previously trapped pollutants.

The Contractor shall furnish and install the Stormwater Filtration System complete and operable as shown and as specified herein in accordance with the requirements of the plans and contract documents.

2.1.2 Materials and Design

A. Concrete for precast Stormwater Filtration Systems shall conform to ASTM C478, C857 and C858 and meet the following additional requirements:
   1. In all cases the wall thickness shall be no less than the minimum thickness necessary to sustain HS20-44 (MS18) loading requirements as determined by a Licensed Professional Engineer.
   2. Sections shall have tongue and groove or ship-lap joints with a butyl mastic sealant conforming to ASTM C990.
   3. Cement shall be Type I, II or III Portland cement conforming to ASTM C150.
   4. All sections shall be cured by an approved method. Sections shall not be shipped until the concrete has attained a compressive strength of 4,000 psi (28 MPa) or other designate suitable handling strength.
   5. Pipe openings shall be sized to accept pipes of the specified size(s) and material(s), and shall be sealed by the Contractor with hydraulic cement conforming to ASTM C595M or ASTM C1107.
   6. Aggregates shall conform to ASTM C33, except that the requirement for gradation shall not apply.

   7. Reinforcement shall consist of wire conforming to ASTM A82 or A496, of wire mesh conforming to ASTM A185 or A497, or Grade 40 steel bars conforming to ASTM A615.
   8. Castings for manhole frames and covers shall be in accordance with ASTM A48, CL.30B and AASHTO M105. The access cover/s shall be designed for HS20-44 traffic loading and shall provide a minimum of 30-inch clear opening.
   9. Brick or masonry used to build the manhole frame to grade shall conform to ASTM C32 or ASTM C139 and shall be installed in conformance with all local requirements.
   10. Diversion weirs, separation chamber and oil baffle shall be made from concrete, marine grade fiberglass and/or stainless steel and shall conform to ASTM A240.
   11. All mounting hardware for internal components shall be made of 304SS and shall con form to ASTM A240.

B. All internal components including stainless steel bypass manifold, pre-treatment filter, filter cartridge(s), filter media (as specified on the plans or by the Engineer), and shall be provided by the manufacturer.
   1. The bypass manifold shall be fabricated of stainless steel, minimum Type 304, complying with the requirements of ASTM A240.
   2. Filter cartridge bottom pan, inner ring, top and hood shall be constructed from high density polyethylene (HDPE). Filter cartridge screen shall consist of 1" x ½" welded wire fabric (16-gauge minimum) with a bonded PVC coating. An orifice mechanism plate shall be supplied with each cartridge to restrict flow rate to a maximum of 12 gpm (12-inch cartridge), 18 gpm (18-inch cartridge), 24 gpm (24-inch cartridge), 30 gpm (30-inch cartridge) at a system design head or as specified on drawings.
   3. The filter media shall consist of one or more of the following, as specified on the Plans or by the Engineer:
      a. Perlite Media: Perlite media shall be made of natural siliceous volcanic rock free of any debris or foreign matter. The perlite media shall have a bulk density ranging from 6.5 to 8.5 lb/ft3 and particle sizes ranging from that passing through a 0.50-inch screen and retained on a U.S. Standard #8 sieve.
      b. Zeolite Media: Zeolite media shall be made of naturally occurring clinoptilolite, which has a geological structure of potassium-calcium-sodium aluminosilicate. The zeolite media shall have a bulk density ranging from 44 to 48 lb/ft3, particle sizes ranging from that passing through a U.S. Standard #4 sieve to that retained in a U.S. Standard #6 sieve, and a cation exchange capacity ranging from 1.0 to 2.2 meq/g.
      c. Granular Activated Carbon: Granular activated carbon (GAC) shall be made of lignite coal that has been steam activated. The GAC media shall have a bulk density ranging from 28 to 31 lb/ft3 and particle sizes ranging from that passing through a U.S. Standard #4 sieve to that retained on a U.S. Standard #8 sieve.
      d. Zeolite-Perlite-Carbon (ZPC): ZPC is a mixed media that shall be composed of a blend of Zeolite (see above), Perlite (see above) and Granular Activated Carbon (see above).
      e. Zeolite-Perlite (ZP): ZP is a mixed media that shall be composed of a blend of Zeolite (see above) and Perlite (see above).

2.1.3 Performance

A. Each specified flow based Stormwater Filtration System shall be capable of removing 80% of the net annual Total Suspended Solids (TSS) load based on a d50 particle size of 20 microns. Annual TSS removal efficiency models shall be based on laboratory and field performance data, site-specific hydraulics and hydrology, and local rainfall intensity distributions. Filtration units shall have the ability of being placed inline without re-suspending trapped sediments or re-entrain contaminants up to and including the Peak Flow Rate.

B. Each Stormwater Filtration System shall contain one or more media cartridges that maintain a uniform pressure profile across the face of the filter during operation. At the design flow rate, the maximum filter hydraulic loading rate is not to exceed 2.0 gpm/sf of filter surface area. Stormwater shall enter the filter cartridges through the sides and shall flow through the filter media radially from the outer perimeter inward and shall have an average media contact time of not less than 39 seconds.
C. The Stormwater Filtration System performance shall be third partied verified and shall be based on lab and field performance. The Stormwater Filtration System shall have Washington Department of Ecology General Use Level Designation (GULD).
D. The Stormwater Filtration System shall be supplied with either internal or external bypass with a minimum capacity not less than the peak design storm as determined by the Engineer.

2.1.4 Quality Assurance

The materials, process and finished Stormwater Filtration System shall be subject to inspection by the Engineer. Acceptance or rejection of the system shall be based on the Specifications contained in this section. Imperfections may be repaired but subject to the acceptance of the Engineer.

2.1.5 Manufacturer

Each Stormwater Filtration System shall be a PerkFilter as manufactured by Oldcastle Precast, 7100 Longe Street, Stockton, California, 95206.

PART 3 – EXECUTION

3.1 Earthwork

A. Excavation, trenching and backfilling shall be as specified in Division 2 Section "Earthwork".

3.2 Identification

A. All Stormwater Filtration devices shall be identified at the surface level with markings indicating that they are treatment devices.

3.3 Inspection

3.3.1 General

A. Concrete, internals and accessories shall be inspected prior to installation and any defective or damaged product shall be replaced.

3.3.2 Manhole Sections

A. Any manhole section with chipped bells or spigots shall be rejected and replaced.
B. Any section with a fracture or crack greater than 0.10-inch in length or 0.01 in width shall be rejected and replaced.
C. Any manhole section that has not had at least seven (7) days cure time (including 12 hours steam cure, or 21 days without steam cure) or is out of round shall be rejected and replaced.
D. Any section with indications of imperfections in mixing and/or molding, honeycombed, or open textured surface, shall be rejected and replaced.
E. Any section with indications of patches or repairs shall be rejected and replaced.
F. Any section with exposed reinforcing steel shall be rejected and replaced.

3.4 Structure Installation

3.4.1 General

A. General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground storm and drainage piping systems. Location and arrangement of Stormwater Filtration Systems is critical and design consideration should be taken into account. Install filtration system as indicated herein and as directed by the product manufacturer, to the maximum extent practical. Where specific installation procedure is not indicated, follow product manufacturer's written instructions.

B. All products shall be inspected for defects and cracks before being lowered into the trench, piece by piece. Any defective, damaged or unsound structure or any product that has had its grade disturbed after laying, shall be taken up and replaced. Open ends shall be protected with a pipe plug to prevent earth or other material from entering the filtration system during construction. The interior of the filtration system shall be free from dirt, excess water and other foreign materials as the installation progresses and left clean at the completion of the installation.

3.4.2 Trench Excavation

3.4.2.1 Excavation

A. Excavate trenches to ensure that sides will be stable under all working conditions. Slope trench walls or provide supports in conformance with all local and national standards for safety. Open only as much trench as can be safely maintained by available equipment. Backfill all trenches as soon as practicable, but not later than the end of each working day.
B. Where trench walls are stable or supported, provide a width sufficient, but no greater than necessary, to ensure working room to properly and safely place and compact haunching and other embedment materials. The space between the filtration system and trench wall must be wider than compaction equipment used in the compaction zone.
C. When supports such as trench sheeting, trench jacks, trench shields or boxes are used, ensure that support of the filtration system and its embedment is maintained throughout installation. Ensure that sheeting is sufficiently tight to prevent washing out of the trench wall from behind the sheeting. Provide tight support of trench walls below viaducts, existing utilities, or other obstructions that restrict driving of sheeting.

3.4.2.2 Dewatering

A. Do not lay or embed any section of the Stormwater Filtration System in standing or running water. At all times prevent runoff and surface water from entering the trench.
B. When water is present in the work area, dewater to maintain stability of in-situ and imported materials. Maintain water level below pipe bedding and foundation to provide a stable trench bottom. Use, as appropriate, sump pumps, well points, deep wells, geofabrics, perforated underdrains, or stone blankets of sufficient thickness to remove and control water in the trench. When excavating while depressing ground water, ensure the ground water is below the bottom of cut at all times to prevent washout from behind sheeting or sloughing of exposed trench walls. Maintain control of water in the trench before, during and after pipe system installation and until embedment is installed and sufficient backfill has been placed to prevent flotation of the pipe, fitting or drainage structures. To preclude loss of soil support, employ dewatering methods that minimize removal of fines and the creation of voids in in-situ materials.

3.4.2.3 Removal of Rock

A. Rock in either ledge or boulder formation shall be replaced with suitable materials to provide a compacted earth cushion having a thickness between exposed rock and the manhole sections of at least 12 inches (0.3m). Rock excavation shall be as specified and defined under section 02300 "Earthwork".

3.4.2.4 Removal of Unstable Material

A. Where wet or otherwise unstable soil incapable of properly supporting the manhole structure, as determined by the Engineer, is encountered in the bottom of a trench, such material shall be removed to at least 24 inches below bottom of the structure

BKF 100+ YEARS
ENGINEERS . SURVEYORS . PLANNERS
1730 N. 1ST STREET
SUITE 600
SAN JOSE, CA 95112
408-467-9100
408-467-9199 (FAX)

CALIFORNIA

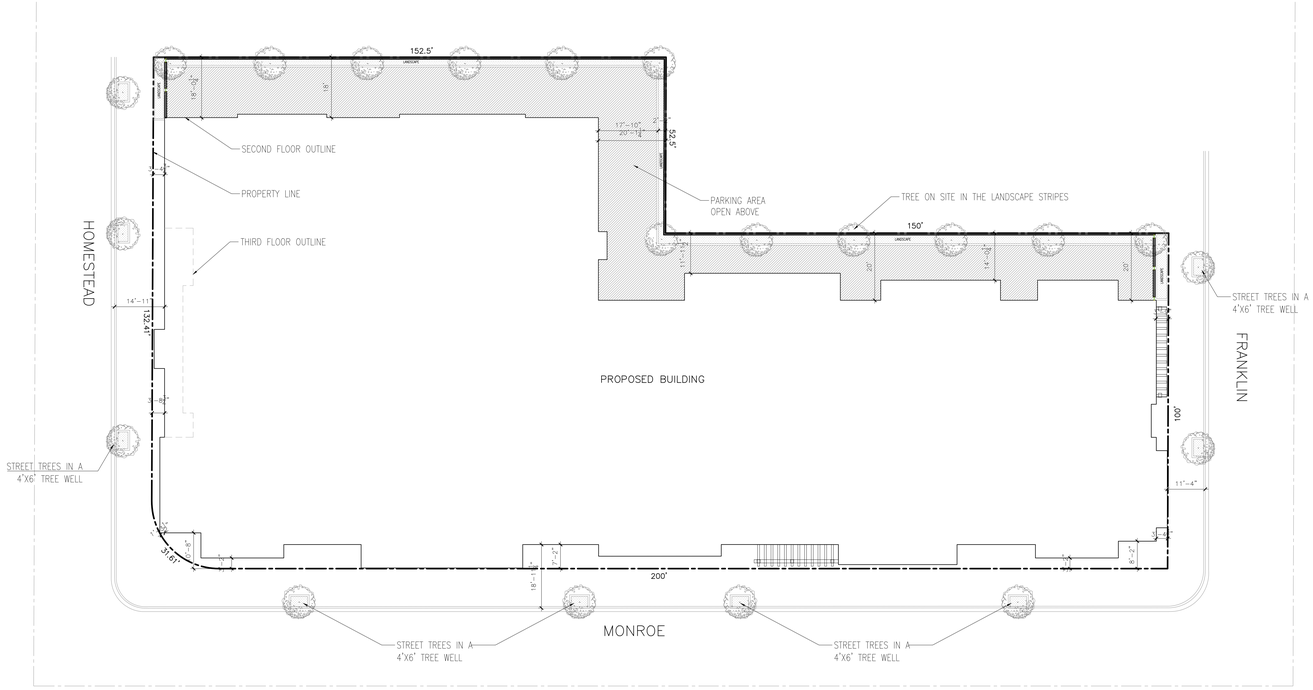
SANTA CLARA DOWNTOWN PROJECT
930-950 MONROE STREE
STORMWATER CONTROL DETAILS
SANTA CLARA

SANTA CLARA

No.	Revisions	City Approv.	Date

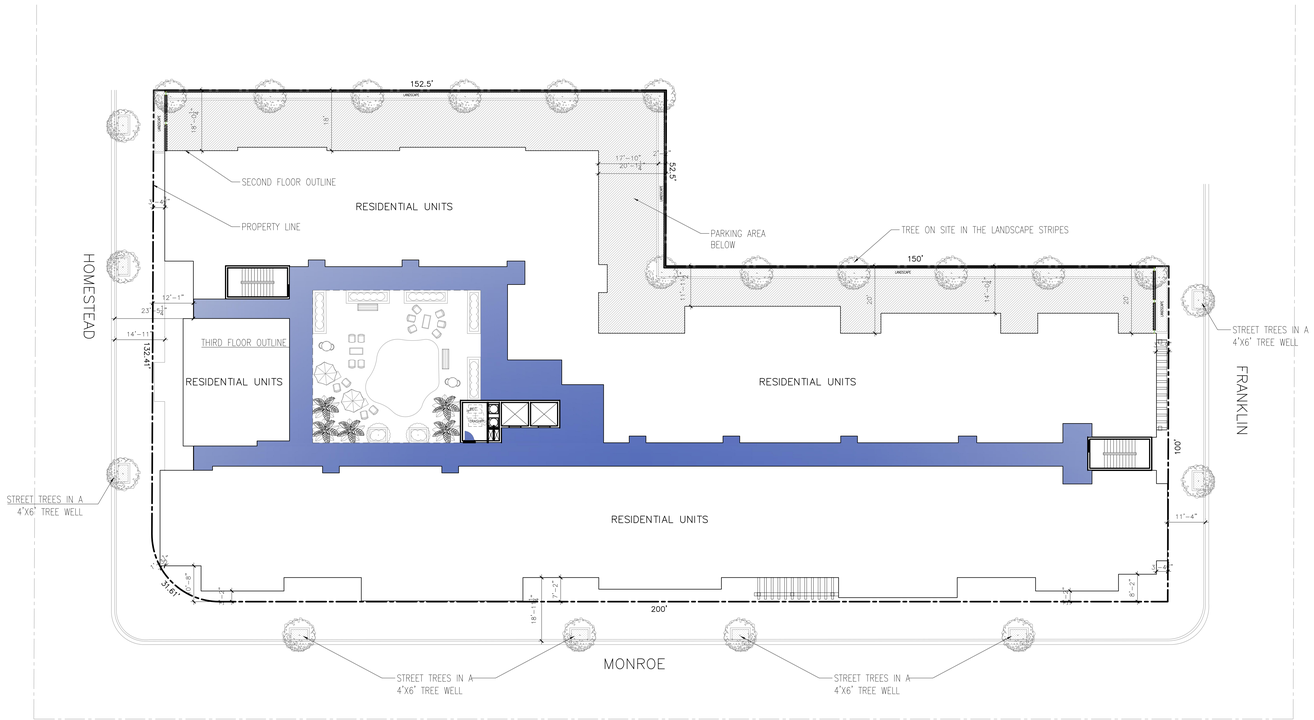
Date: 6/02/2020
Scale: AS SHOWN
Design: TN
Drawn: JH
Approved: PK
Job No: 20190263

Drawing Number:
C5.1
OF



1 PROPOSED LANDSCAPE PLAN
FIRST FLOOR

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



1 PROPOSED LANDSCAPE PLAN
SECOND FLOOR

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

SCDC
ARCHITECTURE
INTERIOR DESIGN
SALVATORE CARUSO
DESIGN CORPORATION
980 EL CAMINO REAL, # 200, SANTA CLARA, CA 95050
TEL. No. (408) 998-4087 • FAX. No. (408) 998-4088

PROJECT :

SANTA CLARA
DOWNTOWN
906,930,940,950 MONROE ST
SANTA CLARA, CA 95050

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SHEET NAME :

PROPOSED
LANDSCAPE PLAN

REVISIONS	BY

DRAWN:
CHECKED:
DATE: 06/03/2020
SCALE: 1/16"=1'-0"
JOB No.: 19.10.07
SHEET No.:

L1.0

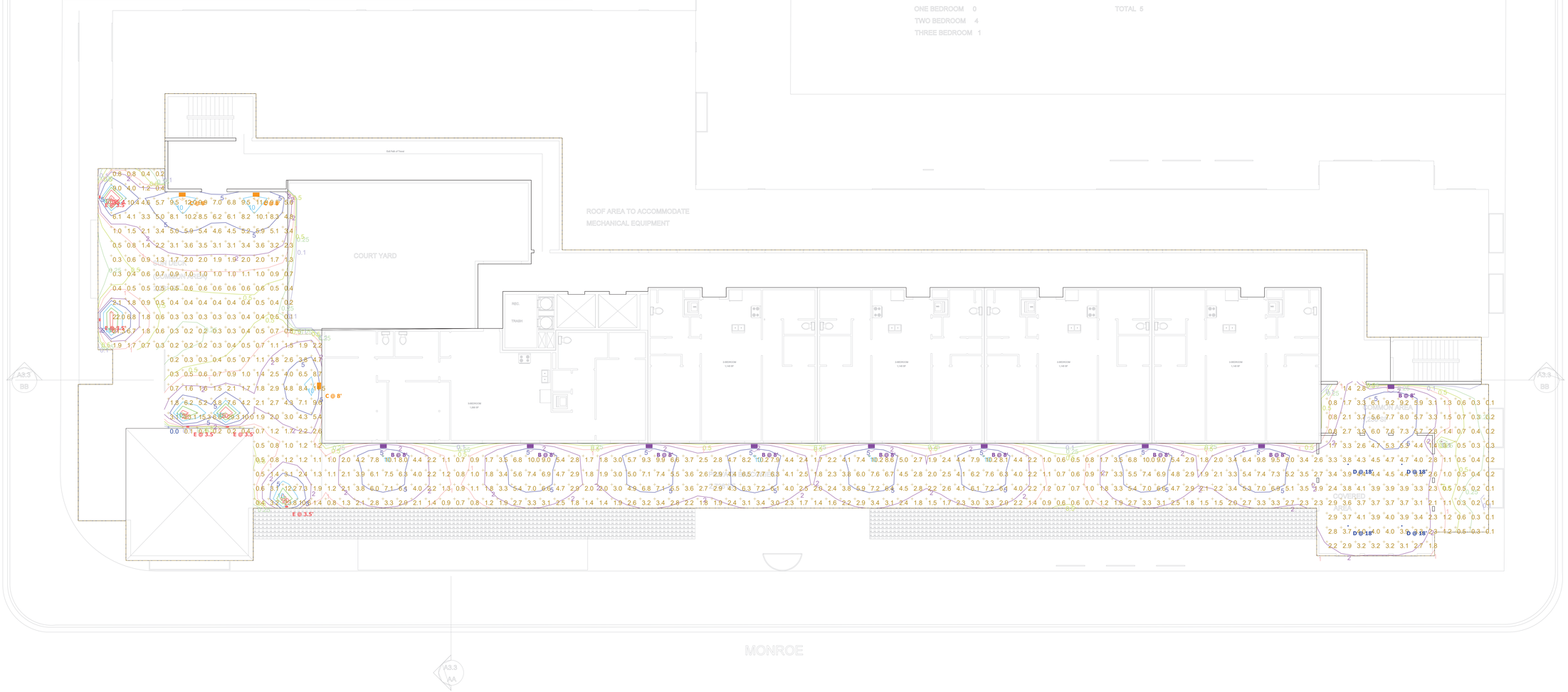
SHEETS IN SET

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Polar Plot
	A		37	Lithonia Lighting	WDGE2 LED P3 30K 80CRI VF	WDGE2 LED WITH P3 - - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT FORWARD OPTIC		1	WDGE2_LED_P3_30K_80CRI_VF.ies	3015	1	0.85	22.55	Max: 1590cd
	B		9	Lithonia Lighting	WDGE2 LED P2 30K 80CRI VW	WDGE2 LED WITH P2 - - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT WIDE OPTIC		1	WDGE2_LED_P2_30K_80CRI_VW.ies	1997	1	0.85	14.53	Max: 1523cd
	C		3	Lithonia Lighting	WDGE2 LED P2 30K 80CRI VF	WDGE2 LED WITH P2 - - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT FORWARD OPTIC		1	WDGE2_LED_P2_30K_80CRI_VF.ies	1947	1	0.85	14.53	Max: 1027cd
	D		20	TARGETTI	Bulletto LARGE WFL 3000K Ra84	BLTRPFEL2WF30	LED-WW-10.4W_-	1	BLTRPFEL2WF30.ies	1148	1	0.85	12	Max: 1158cd
	E		5	TARGETTI	ZEP10FWDPFEL330	ZEDGE PRO DEEP 13W 3K FE	LED-WW-13W_-	1	ZEP10FWDPFEL330.ies	2088	1	0.85	15	Max: 1019cd

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Rooftop 0'-0" AFG	+	3.4 fc	35.4 fc	0.0 fc	N/A	N/A



Note

Ceiling Height: Various, per Client's Architectural Drawings
Luminaire Mounting Height: As Noted in Plan Drawing
Reflectances: 30% for All Exterior Objects
Calculation Point Height: Indicated in "Statistics"

Luminaire illuminance values provided in this report, whether for normal, critical, or emergency applications, are for product application assistance only. These values were developed in collaboration with, and are subject to approval by, the design professional of record (architect/engineer/LC), and are NOT intended for construction. Because these values are approximate and based on limited application information provided to 16500, Inc. at the time of calculation, 16500, Inc. does not warrant the installed performance of the luminaire(s) will match that shown in this report. Please verify all data and conditions to assure the accuracy of the report. 16500 shall neither be responsible nor liable for design, approval, or results of emergency lighting under any circumstances.

sixteen5hundred

Project: Santa Clara Downtown, Monroe Street | 20-14810
Client: Salvatore Caruso Design Corporation

Designer
TTK
Date
2020-06-08
Scale
As Noted
Revision No.
Rv 1
Summary

THIS LIGHTING APPLICATION REQUIRES SPECIFIC LIGHTING CONTROL DEVICES OR SYSTEMS PER CALIFORNIA TITLE 24 PART 6.

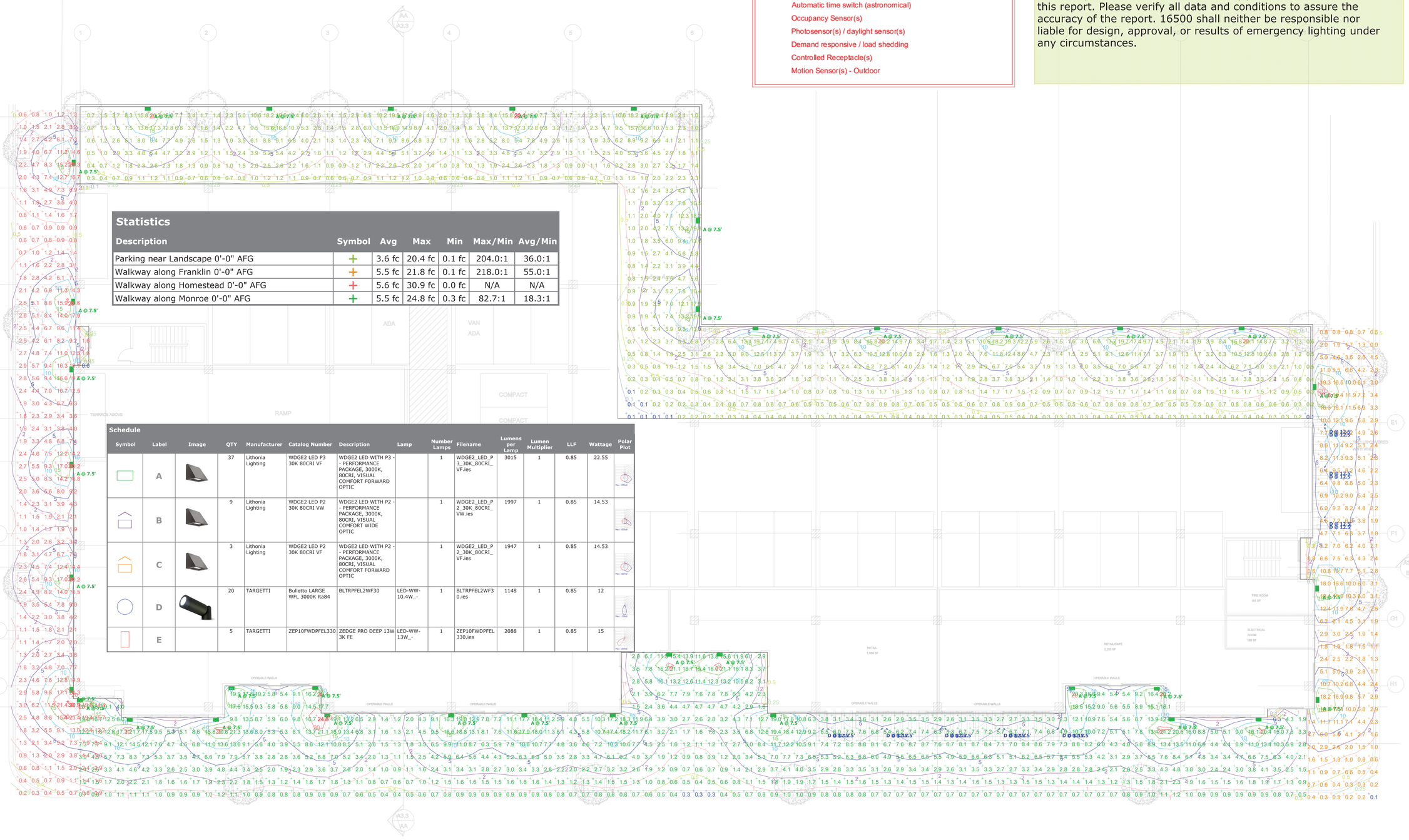
Therefore, this proposal includes:

- ☐ SOLUTION: This proposal includes a complete lighting and control system either as an alternate to that specified, or as a recommendation based on the information provided, subject to your review and approval.
- ☐ SUPPLEMENT: This proposal includes lighting as requested/specified; as well as a proposed lighting control system for your review and approval.
- ☒ ALERT: This proposal includes only lighting as requested/specified. However, the application likely requires compatible lighting controls to meet the following criteria. We are happy to provide a lighting control quote/proposal at your request.
  - Manual Switch(es)
  - Automatic time switch (astronomical)
  - Occupancy Sensor(s)
  - Photosensor(s) / daylight sensor(s)
  - Demand responsive / load shedding
  - Controlled Receptacle(s)
  - Motion Sensor(s) - Outdoor

Note

Ceiling Height: Various, per Client's Architectural Drawings
Luminaire Mounting Height: As Noted in Plan Drawing
Reflectances: 30% for All Exterior Objects
Calculation Point Height: Indicated in "Statistics"

Luminaire illuminance values provided in this report, whether for normal, critical, or emergency applications, are for product application assistance only. These values were developed in collaboration with, and are subject to approval by, the design professional of record (architect/engineer/LC), and are NOT intended for construction. Because these values are approximate and based on limited application information provided to 16500, Inc. at the time of calculation, 16500, Inc. does not warrant the installed performance of the luminaire(s) will match that shown in this report. Please verify all data and conditions to assure the accuracy of the report. 16500 shall neither be responsible nor liable for design, approval, or results of emergency lighting under any circumstances.



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking near Landscape 0'-0" AFG	+	3.6 fc	20.4 fc	0.1 fc	204.0:1	36.0:1
Walkway along Franklin 0'-0" AFG	+	5.5 fc	21.8 fc	0.1 fc	218.0:1	55.0:1
Walkway along Homestead 0'-0" AFG	+	5.6 fc	30.9 fc	0.0 fc	N/A	N/A
Walkway along Monroe 0'-0" AFG	+	5.5 fc	24.8 fc	0.3 fc	82.7:1	18.3:1

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Polar Plot
	A		37	Lithonia Lighting	WDGE2 LED P3 30K 80CRI VF	WDGE2 LED WITH P3 - - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT FORWARD OPTIC		1	WDGE2_LED_P3_30K_80CRI_VF.ies	3015	1	0.85	22.55	
	B		9	Lithonia Lighting	WDGE2 LED P2 30K 80CRI VW	WDGE2 LED WITH P2 - - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT WIDE OPTIC		1	WDGE2_LED_P2_30K_80CRI_VW.ies	1997	1	0.85	14.53	
	C		3	Lithonia Lighting	WDGE2 LED P2 30K 80CRI VF	WDGE2 LED WITH P2 - - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT FORWARD OPTIC		1	WDGE2_LED_P2_30K_80CRI_VF.ies	1947	1	0.85	14.53	
	D		20	TARGETTI	Bulletto LARGE WFL 3000K Ra84	BLTRPFEL2WF30	LED-WW-10.4W_-	1	BLTRPFEL2WF30.ies	1148	1	0.85	12	
	E		5	TARGETTI	ZEP10FWDPFEL330	ZEDGE PRO DEEP 13W 3K FE	LED-WW-13W_-	1	ZEP10FWDPFEL330.ies	2088	1	0.85	15	

sixteen5hundred

Project: Santa Clara Downtown, Monroe Street | 20-14810
Client: Salvatore Caruso Design Corporation

Designer
TTK
Date
2020-06-08
Scale
As Noted
Revision No.
Rv 1
Summary